PLEASE PRINT A COPY OF
THE FINAL APPROVED PLANS
FOR THE JOBSITE

MEMORIAL PARK

REVISED PLAN

REV2024-00216/PMT2023-06439

10597 TOWN CENTER DRIVE
RANCHO CUCAMONGA, CA 91730

City of Rancho Cucamonga
Planning Department
APPROVED
Tabe Vanderzwaag
Aug 12, 2024
Please contact the Planning Department at
(909) 477-2750 for Final Planning Inspection

CITY OF RANCHO CUCAMONGA
BUILDING & SAFETY DEPARTMENT
APPROVED
By: RJ for Zack Neighbors Date: Aug 27, 2024
Note: All contractors and subcontractors are required to obtain approval from the Business License Division before scheduling a final inspection.

City of Rancho Cucamonga
Engineering Department Approval
Approval of this plan does not constitute a permit for work within the public right-of-way; this is only a release to the Building & Safety Department to proceed with their building permit process. All activities within the public right-of-way shall be performed under an Engineering Construction Permit which is to be pulled in the Engineering Department (909) 477-2740
Jasmine Lopez Aug 27, 2024

RANCHO CUCAMONGA
FIRE PROTECTION DISTRICT
FIRE CONSTRUCTION SERVICES
These plans have been reviewed for compliance with all applicable ordinances, codes, and standards of the Rancho Cucamonga Fire Protection District.
APPROVED
This review and approval does not relieve the developer, architect, engineer, designer, contractor, or installer of the responsibility to comply with all of the applicable Federal, State, County, City, and Fire District laws, ordinances, codes, regulations, and/or standards.
Subject to final approval by field inspections and tests.
Shane Adams — Signature
Aug 27, 2024 — Date

Submittals	Date
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/12/2023
50% CD	10/06/2023
100% CD	11/03/2023
PERMIT REVISION 01	07/31/2024

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue,
Suite 100
Irvine, California 92617

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

PROJECT NUMBER 3054801

TITLE
SHEET

G0.00

SYMBOLS LEGEND

COLUMN LINE

SURFACE DRAINAGE ARROW INDICATES DIRECTION OF FLOW

PROJECT NORTH

BUILDING SECTION
SECTION ID
SHEET NUMBER

WALL SECTION
SECTION ID
SHEET NUMBER

DETAIL CALLOUTS
DETAIL ID
SHEET NUMBER

DETAIL SECTION
DETAIL ID
SHEET NUMBER

DETAIL REFERENCE
DETAIL ID
SHEET NUMBER

INTERIOR ELEVATIONS
DETAIL ID
SHEET NUMBER

DOOR DESIGNATION

ROOM DESIGNATION — Room name

ROOM NUMBER — 101

ROOM AREA — 150 SF

REVISION CLOUD & TAG (OPTIONAL

SHADED PORTION POINTS TO SIDE REFERENCED — MATCH LINE / SEE SHEET A101

DATUM POINT

KEYNOTE

WALL TYPE

OPENING TYPE

LEVEL LINE, CONTROL POINT
EL: 12'-6" = ELEVATION/SECTION — Name / Elevation

STAIR DIRECTION SYMBOL — DN / UP

CENTER LINES, FLOOR LINES

HIDDEN CONSTRUCTION FEATURE

BREAK LINE

ABBREVIATIONS

&	AND	ID	INSIDE DIAMETER
∠	ANGLE	INSUL	INSULATION
@	AT	INT	INTERIOR
℄	CENTERLINE		
∅	DIAMETER OR ROUND	JAN	JANITOR
#	POUND OR NUMBER	JT	JOINT
(E)	EXISTING		
(P)	PAINT	KIT	KITCHEN
(R)	REMOVE		
		LAB	LABORATORY
ACOUS	ACOUSTICAL	LAM	LAMINATE
AC	ASPHALTIC CONCRETE	LAND ARCH	LANDSCAPE ARCHITECT
AD	AREA DRAIN	LAV	LAVATORY
ADJ	ADJUSTABLE	LKR	LOCKER
AFF	ABOVE FINISH FLOOR	LT	LIGHT
AGGR	AGGREGATE		
ALUM	ALUMINUM	MATL	MATERIAL
APPROX	APPROXIMATE	MAX	MAXIMUM
ARCH	ARCHITECTURAL	MC	MEDICINE CABINET
ASPH	ASPHALT	MECH	MECHANICAL
		MEMB	MEMBRANE
BD	BOARD	MET	METAL
BITUM	BITUMINOUS	MFR	MANUFACTURER
BLDG	BUILDING	MH	MANHOLE
BLK	BLOCK	MIN	MINIMUM
BLK'G	BLOCKING	MIR	MIRROR
BM	BEAM	MISC	MISCELLANEOUS
BOC	BACK OF CURB	MO	MASONRY OPENING
BOT	BOTTOM	MTD	MOUNTED
BOW	BOTTOM OF WALL or BACK OF WALL	MUL	MULLION
BS	BOTTOM OF SLOPE	N	NORTH
		NIC	NOT IN CONTRACT
CAB	CABINET	NO/#	NUMBER
CB	CATCH BASIN	NOM	NOMINAL
CEM	CEMENT	NTS	NOT TO SCALE
CER	CERAMIC		
CI	CAST IRON	OA	OVERALL
CIP	CAST IN PLACE	OA	OUTSIDE AIR
CIV ENG	CIVIL ENGINEER	OBS	OBSCURE
CG	CORNER GUARD	OC	ON CENTER
CJ	CONTROL JOINT	OD	OUTSIDE DIAMETER
CLG	CEILING	OFF	OFFICE
CLKG	CAULKING	OPNG	OPENING
CLO	CLOSET	OPP	OPPOSITE
CLR	CLEAR	OSA	OUTSIDE AIR
CNTR	COUNTER		
CO	CASED OPENING	PA	PLANTING AREA
COL	COLUMN	PRCST	PRECAST
CONC	CONCRETE	PH	PANIC HARDWARE
CONN	CONNECTION	PL	PLATE
CONSTR	CONSTRUCTION	P LAM	PLASTIC LAMINATE
CONT	CONTINUOUS	PLAS	PLASTER
CORR	CORRIDOR	PLYWD	PLYWOOD
CT	CERAMIC TILE	POT	PATH OF TRAVEL
CTR	CENTER	PR	PAIR
CTSK	COUNTERSUNK	PT	PAINT
		PTD	PAPER TOWEL DISPENSER
DA	DISABLED ACCESS	PTD/R	COMBINATION PAPER TOWEL DISPENSER & RECEPTACLE
DBL	DOUBLE		
DEPT	DEPARTMENT	PTN	PARTITION
DESC	DESCRIPTION	PTR	PAPER TOWEL RECEPTACLE
DF	DRINKING FOUNTAIN		
DET	DETAIL		
DIA	DIAMETER	QT	QUARRY TILE
DIM	DIMENSION		
DISP	DISPENSER	R	RISER
DN	DOWN	RAD	RADIUS
DO	DOOR OPENING	RD	ROOF DRAIN
DR	DOOR	REF	REFERENCE
DWR	DRAWER	REFR	REFRIGERATOR
DS	DOWNSPOUT	RGTR	REGISTER
DSP	DRY STANDPIPE	REINF	REINFORCED
DWG	DRAWING	REQD	REQUIRED
		RESIL	RESILIENT
E	EAST	RM	ROOM
EA	EACH	RO	ROUGH OPENING
EJ	EXPANSION JOINT	ROW	RIGHT OF WAY
EL	ELEVATION	RWD	REDWOOD
ELEC	ELECTRICAL	RWL	RAIN WATER LEADER
ELEV	ELEVATOR		
EMER	EMERGENCY	S	SOUTH
ENCL	ENCLOSURE	SC	SOLID CORE
EP	ELECTRICAL PANELBOARD	SCD	SEAT COVER DISPENSER
EQ	EQUAL	SCHED	SCHEDULE
EQUIP	EQUIPMENT	SD	SOAP DISPENSER
EWC	ELECTRIC WATER COOLER	SECT	SECTION
EXIST	EXISTING	SF	SQUARE FEET
EXPO	EXPOSED	SH	SHELF
EXP	EXPANSION	SHR	SHOWER
EXT	EXTERIOR	SHT	SHEET
		SIM	SIMILAR
FA	FIRE ALARM	SND	SANITARY NAPKIN DISPENSER
FB	FLAT BAR		
FD	FLOOR DRAIN	SNR	SANITARY NAPKIN RECEPTACLE
FDN	FOUNDATION		
FE	FIRE EXTINGUISHER	SP	SPANDREL
FEC	FIRE EXTINGUISHER CABINET	SPEC	SPECIFICATION(S)
		SQ	SQUARE
FHC	FIRE HOSE CABINET	SST	STAINLESS STEEL
FIN	FINISH	S SK	SERVICE SINK
FLR	FLOOR	STA	STATION
FLASH	FLASHING	STD	STANDARD
FLUOR	FLUORESCENT	STL	STEEL
FOC	FACE OF CONCRETE	STOR	STORAGE
FOF	FACE OF FINISH	STR	STRUCTURAL
FOM	FACE OF MASONRY	SUSP	SUSPENDED
FOS	FACE OF STUD	SYM	SYMMETRICAL
FOV	FACE OF VENEER (BRICK OR PRECAST)		
		T	TREAD
FOW	FACE OF WALL	TB	TOWEL BAR
FR	FIRE RETARDANT	TC	TOP OF CURB
FPRF	FIREPROOF	TEL	TELEPHONE
FS	FINISH SURFACE	TER	TERRAZZO
FT	FOOT OR FEET	T&G	TONGUE & GROOVE
FTG	FOOTING	THK	THICK
FURR	FURRING	TOB	TOP OF BEAM
FUT	FUTURE	TOC	TOP OF CONCRETE
		TOW	TOP OF WALL
GA	GAUGE	TOP	TOP OF PARAPET
GALV	GALVANIZED	TPD	TOILET PAPER DISPENSER
GB	GRAB BAR	TS	TOP OF SLOPE
GC	GENERAL CONTRACTOR	TV	TELEVISION
GI	GALVANIZED IRON	TYP	TYPICAL
GL	GLASS		
GND	GROUND	UNF	UNFINISHED
GR	GRADE	UNO	UNLESS NOTED OTHERWISE
GYP	GYPSUM		
		UR	URINAL
HB	HOSE BIB		
HC	HOLLOW CORE	VCT	VINYL COMPOSITION TILE
HDWD	HARDWOOD	VERT	VERTICAL
HDW	HARDWARE	VEST	VESTIBULE
HM	HOLLOW METAL		
HORIZ	HORIZONTAL	W	WEST
HR	HOUR	W/	WITH
HGT/HT	HEIGHT	WC	WATER CLOSET
		WD	WOOD
		W/O	WITHOUT
		WP	WATERPROOF
		WR	WATER RESISTANT
		WSCT	WAINSCOT
		WT	WEIGHT
		WWF	WELDED WIRE FABRIC

CITY OF RANCHO CUCAMONGA
BUILDING & SAFETY DEPARTMENT

APPROVED

By: RJ for Zack Neighbors Date: Aug 27, 2024

Note: All contractors and subcontractors are required to obtain approval from the Business License Division before scheduling a final inspection.

CONSTRUCTION NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE AS SPECIFIED AND IN ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, LAWS, PERMITS, AND THE CONTRACT DOCUMENTS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURATE PLACEMENT OF ALL NEW CONSTRUCTION ON THE SITE.

3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. SHOULD A DISCREPANCY APPEAR IN THE CONTRACT DOCUMENTS, OR BETWEEN THE CONTRACT DOCUMENTS AND EXISTING CONDITIONS, NOTIFY THE ARCHITECT AT ONCE FOR INSTRUCTION ON HOW TO PROCEED.

4. SHOULD A CONFLICT OCCUR BETWEEN DRAWINGS AND SPECIFICATIONS, THE SPECIFICATIONS SHALL TAKE PRECEDENCE, UNLESS A WRITTEN DECISION FROM THE ARCHITECT HAS BEEN OBTAINED WHICH DESCRIBES A CLARIFICATION OR ALTERNATE METHOD AND/OR MATERIALS.

5. THE CONTRACTOR SHALL CONFINE THEIR OPERATIONS ON THE SITE TO AREAS PERMITTED BY OWNER.

6. THE JOB SITE SHALL BE MAINTAINED IN A CLEAN, ORDERLY CONDITION FREE OF DEBRIS AND LITTER AND SHALL NOT BE UNREASONABLY ENCUMBERED WITH ANY MATERIALS OR EQUIPMENT. EACH SUBCONTRACTOR IMMEDIATELY UPON COMPLETION OF EACH PHASE OF THEIR WORK SHALL REMOVE ALL TRASH AND DEBRIS AS A RESULT OF HIS OPERATIONS.

7. ALL MATERIAL STORED ON THE SITE SHALL BE PROPERLY STACKED AND PROTECTED TO PREVENT DAMAGE AND DETERIORATION. FAILURE TO PROTECT MATERIALS MAY CAUSE FOR REJECTION OF WORK.

8. THE CONTRACTOR SHALL DO ALL CUTTING, FITTING, OR PATCHING OF THEIR WORK THAT MAY BE REQUIRED TO MAKE ITS SEVERAL PARTS FIT TOGETHER PROPERLY AND SHALL NOT ENDANGER ANY OTHER WORK BY CUTTING, EXCAVATING, OR OTHERWISE ALTERING THE TOTAL WORK OR ANY PART OF IT. ALL PATCHING, REPAIRING, AND REPLACING OF MATERIALS AND SURFACES, CUT OR DAMAGED IN EXECUTION OF WORK, SHALL BE DONE WITH APPLICABLE MATERIALS SO THAT SURFACES REPLACED WILL, UPON COMPLETION, MATCH SURROUNDING SIMILAR SURFACES.

9. NO PORTION OF WORK REQUIRING A SHOP DRAWING OR SAMPLE SUBMISSION SHALL BE COMMENCED UNTIL THE SUBMISSION HAS BEEN REVIEWED BY THE ARCHITECT. ALL SUCH PORTIONS OF THE WORK SHALL BE IN ACCORDANCE WITH CORRECTED SHOP DRAWINGS AND SAMPLES.

10. DIMENSIONS:
   A. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE.
   B. ALL DIMENSIONS ARE TO THE FINISH UNLESS OTHERWISE NOTED.
   C. CEILING HEIGHT DIMENSIONS ARE FROM FINISHED FLOOR SLAB TO FACE OF FINISH CEILING MATERIAL UNLESS OTHERWISE NOTED.

11. ALL LEGAL EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. EXIT SIGNS SHALL BE PROVIDED AT ALL EXITS AS REQUIRED BY THE C.B.C., SECTION 1011. ALL DOOR SWINGS SERVING AN OCCUPANT LOAD OF 50 OR GREATER SHALL SWING IN THE DIRECTION OF TRAVEL.

12. PROVIDE ALL NECESSARY BLOCKING, BACKING, AND FRAMING FOR LIGHT FIXTURES, ELECTRIC UNITS, A.C. EQUIPMENT, RECESSED ITEMS, AND ALL OTHER ITEMS AS REQUIRED.

13. WHERE LARGER STUDS OR FURRING ARE REQUIRED TO COVER PIPING AND CONDUITS, THE LARGER STUD SIZE OR FURRING SHALL EXTEND THE FULL SURFACE OF THE WALL WIDTH AND LENGTH WHERE THE FURRING OCCURS.

14. PROVIDE FIRE SPRINKLER PROTECTION THROUGHOUT THE TENANT SPACE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING THE DRAWINGS AND OBTAINING THE PERMITS FOR THE FIRE SPRINKLER SYSTEM. THE FIRE SPRINKLER SYSTEMS SHALL MEET THE REQUIREMENTS OF ALL APPLICABLE CODES AND ORDINANCES.

15. PROVIDE FIRE EXTINGUISHERS PER THE REQUIREMENTS OF LOCAL GOVERNING AGENCIES.

16. PROVIDE ALL ACCESS PANELS AS REQUIRED BY GOVERNING CODES TO ALL CONCEALED SPACES, VOIDS, ATTICS, ETC. VERIFY TYPE REQUIRED WITH ARCHITECT PRIOR TO INSTALLATION.

17. PROVIDE EXIT ILLUMINATION PER THE REQUIREMENTS OF C.B.C., SECTION 1006.

18. ALL GLASS AND GLAZING SHALL COMPLY WITH C.B.C., CHAPTER 24.

19. GC IS RESPONSIBLE FOR CREATING, SUBMITTING FOR APPROVAL, AND PERMITS FOR TEMPORARY FIRE ACCESS PLAN WHILE UNDER CONSTRUCTION.

ACCESSIBLE CONSTRUCTION SUPPORT FACILITIES

11B-201.4 CONSTRUCTION SUPPORT FACILITIES. These requirements shall apply to temporary or permanent construction support facilities for uses and activities not directly associated with the actual processes of construction, including but not limited to offices, meeting rooms, plan rooms, other administrative or support functions. When provided, toilet and bathing facilities serving construction support facilities shall comply with 11B-213. When toilet and bathing facilities serving construction support facilities are provided by portable units, at least one of each type shall be accessible and connected to the construction support facilities it serves by an accessible route.

EXCEPTION: During construction an accessible route shall not be required between site arrival points or the boundary of the area of construction and the entrance to the construction support facilities if the only means of access between them is a vehicular way not providing pedestrian access.

1. AT LEAST ONE ACCESSIBLE ROUTE SHALL BE PROVIDED WITHIN THE SITE FROM ACCESSIBLE PARKING SPACES AND ACCESSIBLE PASSENGER LOADING ZONES; PUBLIC STREETS AND SIDEWALKS; AND PUBLIC TRANSPORTATION STOPS TO THE ACCESSIBLE BUILDING OR FACILITY ENTRANCE THEY SERVE. WHERE MORE THAN ONE ROUTE IS PROVIDED, ALL ROUTES MUST BE ACCESSIBLE. SECTION 11B-206.2.1

2. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES, ACCESSIBLE ELEMENTS, AND ACCESSIBLE SPACES THAT ARE ON THE SAME SITE. SECTION 11B-206.2.2

3. AT LEAST ONE ACCESSIBLE DRINKING FOUNTAIN SHALL BE PROVIDED WHEN ANY DRINKING FOUNTAIN IS PROVIDED. SECTION 11B-602.

4. EACH LOT OR PARKING STRUCTURE WHERE PARKING IS PROVIDED FOR THE PUBLIC AS CLIENTS, GUESTS OR EMPLOYEES, SHALL PROVIDE ACCESSIBLE PARKING AS REQUIRED BY CBC SECTION 11B-502.1.

5. PARKING SPACES AND ACCESS AISLES SHALL BE DESIGNED SO THAT PERSONS USING THEM ARE NOT REQUIRED TO TRAVEL BEHIND PARKING SPACES OTHER THAN TO PASS BEHIND THE PARKING SPACE IN WHICH THEY PARKED. CBC SECTION 11B-502.7.1

6. FOR EVERY SIX OR FRACTION OF SIX ACCESSIBLE PARKING SPACES , AT LEAST ONE SHALL BE A VAN PARKING SPACE. CBC SECTION 11B-208.2.4.

7. WHEN MORE THAN 1 SPACE IS PROVIDED, TWO 9-FOOT WIDE PARKING AREAS MAY BE OUTLINED ON EACH SIDE OF A 5-FOOT WIDE (8-FOOT WIDE FOR VAN ACCESSIBLE SPACE(S)) LOADING AND UNLOADING AISLE. THE MINIMUM LENGTH OF EACH PARKING SPACE SHALL BE 19 FEET. THE WORDS "NO PARKING" SHALL BE PAINTED IN WHITE LETTERS NO LESS THAN 12 INCHES HIGH AND LOCATED SO THAT IT IS VISIBLE TO TRAFFIC ENFORCEMENT OFFICIALS, CBC SECTION 11B-502.

8. A CURB OR WHEEL STOP SHALL BE PROVIDED IF REQUIRED TO PREVENT ENCROACHMENT OF VEHICLES OVER THE REQUIRED CLEAR WIDTH OF ADJACENT ACCESSIBLE ROUTES. CBC SECTION 11B-502.7.2

9. ACCESS AISLES SHALL BE PERMITTED TO BE PLACED ON EITHER SIDE OF THE PARKING SPACE EXCEPT FOR VAN PARKING SPACES WHICH SHALL HAVE ACCESS AISLES LOCATED ON THE PASSENGER SIDE OF THE PARKING SPACE. CBC SECTION 11B-502.3.4

10. WALKS AND SIDEWALKS SHALL HAVE A CONTINUOUS COMMON SURFACE, NOT INTERRUPTED BY STEPS OR ABRUPT CHANGES IN LEVEL. SURFACES SHALL BE SLIP-RESISTANT - CBC SECTION 11B-303.1. WALKS AND SIDEWALKS SHALL NOT HAVE CROSS SLOPES EXCEEDING 1/4" INCH PER FOOT. WHEN THE SLOPE IN THE DIRECTION OF TRAVEL OF ANY WALK EXCEEDS 1 UNIT VERTICAL TO 20 UNITS HORIZONTAL (5% GRADIENT) IT SHALL COMPLY WITH THE PROVISIONS OF CBC SECTION 11B-405& 11B-406, RAMPS.

11. STREET OR DRIVEWAY, EXCEEDING 4 INCHES (4") IN A VERTICAL DIMENSION, SUCH AS AT PLANTER OR FOUNTAINS LOCATED IN OR ADJACENT TO WALKS, SIDEWALKS OR OTHER PEDESTRIAN WAYS, SHALL BE IDENTIFIED BY CURBS PROJECTING AT LEAST 6 INCHES (6") IN HEIGHT ABOVE THE WALK OR SIDEWALK SURFACE TO WARN THE BLIND OF A POTENTIAL DROP-OFF. WHEN A GUARDRAIL OR HANDRAIL IS PROVIDED, NO CURB IS REQUIRED WHEN A GUIDE RAIL IS PROVIDED CENTERED 3 INCHES PLUS OR MINUS 1 INCH ABOVE THE SURFACE OF THE WALK OR SIDEWALK, THE WALK IS 5 PERCENT OR LESS IN GRADIENT OR NO ADJACENT HAZARD EXISTS. CBC SECTION 11B-303.5

12. ANY OBSTRUCTION THAT OVERHANGS A PEDESTRIAN'S WAY SHALL BE A MINIMUM OF 80 INCHES ABOVE THE WALKING SURFACE AS MEASURED FROM THE BOTTOM OF THE OBSTRUCTION. CBC SECTION 11B-307.4.

13. IF A WALK CROSSES OR ADJOINS A VEHICULAR WAY, AND THE WALKING SURFACES ARE NOT SEPARATED BY CURBS, RAILINGS OR OTHER ELEMENTS BETWEEN THE PEDESTRIAN AREAS AND VEHICULAR AREAS, THE BOUNDARY BETWEEN THE AREAS SHALL BE DEFINED BY A CONTINUOUS DETECTABLE WARNING WHICH IS 36 INCHES WIDE, COMPLYING WITH CBC SECTION 11B-705.

14. SITE DEVELOPMENT AND GRADING SHALL BE DESIGNED TO PROVIDE ACCESS TO ALL ENTRANCES AND EXTERIOR GROUND-FLOOR EXITS, AND ACCESS TO NORMAL PATHS OF TRAVEL AND WHERE NECESSARY TO PROVIDE ACCESS, SHALL INCORPORATE PEDESTRIAN RAMPS, CURB RAMPS, ETC. WHEN MORE THAN ONE BUILDING OR FACILITY IS LOCATED ON A SITE, ACCESSIBLE ROUTES OF TRAVEL SHALL BE PROVIDED BETWEEN BUILDINGS AND ACCESSIBLE SITE FACILITIES AND THE ACCESSIBLE ENTRANCE TO THE SITE, CBC SECTION 11B-206.1.

APPLICABLE CODES AND STANDARDS

BUILDING AUTHORITY:

CITY OF RANCHO CUCAMONGA

BUILDING CODES:

- RANCHO CUCAMONGA MUNICIPAL CODE. CURRENT THROUGH ORDINANCE 982
- RANCHO CUCAMONGA MUNICIPAL CODE LOCAL ORDINANCE 956 & FD57
- 2022 CALIFORNIA BUILDING CODE
- 2022 CALIFORNIA MECHANICAL CODE
- 2022 CALIFORNIA PLUMBING CODE
- 2022 CALIFORNIA ELECTRICAL CODE
- 2022 CALIFORNIA ENERGY CODE
- 2022 CALIFORNIA GREEN BUILDING STANDARDS
- 2021 INTERNATIONAL BUILDING CODE
- 2023 NATIONAL ELECTRICAL CODE

PROJECT SCOPE

RCFPD PROPOSES TO CONSTRUCT A NEW MEMORIAL PARK TO COMMEMORATE SEPTEMBER 11TH, AS WELL AS FALLEN SERVICE MEMBERS FROM THE RANCHO CUCAMONGA AREA.

THE MEMORIAL PARK IS CENTERED AROUND THREE ARTIFACTS FROM SEPTEMBER 11: STEEL FROM THE WORLD TRADE CENTER BUILDING, PIECES OF THE PLANE FROM FLIGHT 93, AND A PIECE OF THE PENTAGON. THE ARTIFACTS HAVE BEEN ARRANGED WITH THE SAME SPATIAL RELATIONSHIP THAT THE THREE SEPTEMBER 11 SITES HAVE TO ONE ANOTHER: LOWER MANHATTAN NY(WTC LOCATION), STORYSTOWN PENNSYLVANIA (CRASH SITE OF FLIGHT 93), AND ARLINGTON VIRGINIA/WASHINGTON DC (PENTAGON LOCATION). THE OVERALL SCALE BETWEEN THE PHYSICAL SITES HAS BEEN REDUCED TO 1/4000 FOR THE MEMORIAL PARK.

THE SEPTEMBER 11 ARTIFACTS HAVE BEEN LINKED TOGETHER WITH A CANOPIED WALKING PATH, AND A CENTRAL CANOPIED GATHERING SPACE OCCUPYING THE SPACE IN BETWEEN. ALONG THE PATHS, IN THE SPACE BETWEEN THE ARTIFACTS, ARE TWO CORTEN (LASER CUT) AND GRANITE BLOCK MONUMENTS. THESE MONUMENTS ARE TO COMMEMORATE FALLEN SERVICE MEMBERS FROM THE RANCHO CUCAMONGA AREA, WHO LOST THEIR LIVES IN THE WARS IN AFGHANISTAN AND THE IRAQ WAR RESPECTIVELY.

PLACED IN THE REMAINING SPACE ALONG THE PATH THAT LINKS THE SEPTEMBER 11 ARTIFACTS, IS A PLANTER WITH THREE FLAGPOLES; A SHAPED GRANITE PEDESTAL WITH AN ETERNAL FLAME; AND A LASER CUT CORTEN PLAQUE. THE PURPOSE OF THE FLAGPOLES, ETERNAL FLAME, AND PLAQUE IS TO LOOK TO FORWARD TO THE POSSIBILITIES THAT THE FUTURE AFFORDS.

THE SEPTEMBER 11 MEMORIAL PARK INCLUDES SEATING (GRANITE/WOOD/STEEL BENCHES) THAT FLANK BOTH MEMORIALS TO FALLEN SERVICE MEMBERS, A LARGE CENTRAL GATHERING SPACE FOR EVENTS, A PICNICKING AREA AS WELL AS AN AREA FOR SENSORY/HERB GARDEN PLANTINGS AND ARBORETUM/GATHERING SPACE EDUCATION/GROUP TEACHING SPACES, THERE IS ALSO AS A LABYRINTH/MEDITATION GARDEN.

THE MEMORIAL PARK (APPROXIMATELY 1-1/3 ACRES), INCLUDES THE FOLLOWING ELEMENTS:

1. THE MEMORIAL PARK IS CENTERED AROUND THREE ARTIFACTS FROM SEPTEMBER 11:
   1.1. STEEL ARTIFACT FROM THE WORLD TRADE CENTER BUILDING
   1.2. PIECES OF THE PLANE FROM FLIGHT 93
   1.3. A PIECE OF THE PENTAGON
2. THE THREE ARTIFACTS ARE CONNECTED BY A FOOT PATH AND COVERED SHADE STRUCTURE:
3. CENTRAL GATHERING SPACE DEFINED BY LOWER AND UPPER SHADE STRUCTURE
4. GRANITE AND CORTEN MEMORIALS (2)
5. FLAGPOLES AND ETERNAL FLAME
6. CONCRETE AND WOOD BENCHES (6)
7. MEMORIAL PARK LANDSCAPED AREAS AND PLANTING
8. IRRIGATION (NOT DRIP)
9. DECORATIVE BOUNDARY FENCE, BOK OR APPROVED EQUAL. PATTERN TBD. FENCING SELECTED FOR INSTALLATION
10. HARDSCAPE/CONCRETE WALK FROM TERRA VISTA INTO MEMORIAL PARK
11. NEW ELECTRICAL
12. PROVIDE ADA COMPLIANT ACCESS AT MEMORIAL PARK ENTRIES (FROM TERRA VISTA PARKWAY AND FROM EXISTING PARKING LOT)
13. ADA PARKING AND STRIPING TBD (NOT INCLUDED IN SCOPE OF WORK)

DESIGN BUILD/DEFERRED SUBMITTALS

THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES THE ARCHITECT, AND OTHER CONSULTANTS DESIGN SHALL INCLUDE THE DESIGN OF THE ELEMENT AND ITS CONNECTION TO THE STRUCTURE.

THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING DEPARTMENT (CBC 107.3.4.2).

THIS PROJECT HAS BEEN PERMITTED WITHOUT REVIEW AND/OR APPROVAL OF THE FOLLOWING DEFERRED SUBMITTALS. PLANS APPROVED BY THE CITY SHALL BE OBTAINED FOR EACH DEFERRED ITEM LISTED BELOW PRIOR TO COMMENCING ANY WORK WITHIN THE SCOPE OF SUCH DEFERRAL. DEFERRALS MUST BE REVIEWED AND ACCEPTED BY THE ARCHITECT OR ENGINEER OF RECORD PRIOR TO SUBMITTING FOR REVIEW WITH THE CITY.

DEFERRED SUBMITTALS/DESIGN-BUILD ITEMS:

- NONE

RESPONSIBILTY FOR JOB SITE SAFETY

NOTICE TO PERSONS PERFORMING WORK ON JOB SITE, INCLUDING CONTRACTORS, SUBCONTRACTORS, MATERIAL SUPPLIERS AND ANY AGENTS OR EMPLOYEES THEREOF

THESE PLANS AND SPECIFCATIONS DO NOT PROVIDE ANY DIRECTION OR INSTRUCTIONS TO CONTRACTORS, SUBCONTRACTORS, MATERIAL SUPPLIERS OR THEIR EMPLOYEES OR AGENTS RELATED TO CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, SAFETY PRECAUTIONS, MANNERS OR METHODS OF EGRESS OR INGRESS, INCLUDING BUT NOT LIMITED TO JOB SITE SAFETY, THE PHYSICAL CONDITION OF THE JOB SITE, THE MANNER OR METHOD IN WHICH THE AREA WHERE WORK IS PERFORMED IS ACCESSED BY WORKERS, AND SAFETY PROGRAMS OR SAFETY PROTOCOLS OF ANY KIND IN CONNECTION WITH THE WORK. ALL OF THE FOREGOING ARE SOLELY AND EXCLUSIVELY THE RESPONSIBILITY OF THE CONTRACTOR, SUBCONTRACTOR, MATERIAL SUPPLIERS, OR ANY AGENTS OR EMPLOYEES THEREOF.

THE ARCHITECT EXPRESSLY DISCLAIMS ANY CONTROL OVER AND RESPONSIBILITY FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, SAFETY PRECAUTIONS, MANNERS OR METHODS OF EGRESS OR INGRESS, INCLUDING BUT NOT LIMITED TO JOB SITE SAFETY, THE PHYSICAL CONDITION OF THE JOB SITE, THE MANNER OR METHOD IN WHICH THE AREA WHERE WORK IS PERFORMED IS ACCESSED BY WORKERS, AND SAFETY PROGRAMS OR SAFETY PROTOCOLS OF ANY KIND IN CONNECTION WITH THE WORK.

THE ARCHITECT HAS NOT CONDUCTED AN EVALUATION OR ANALYSIS OF SAFETY PROCEDURES OR APPLICABLE LAW REGARDING OR RELATING TO ACCESSING THE JOB SITE OR AREAS OF THE WORK DURING THE COURSE OF CONSTRUCTION.

THE ARCHITECT, THE ARCHITECT S DESIGNS, AND ANY OTHER WORK PERFORMED BY THE ARCHITECT DO NOT ADDRESS, ANALYZE OR PROVIDE ANY DIRECTION OR ADVICE TO ANY PERSON OR ENTITY ON WHETHER OR NOT THE USE OF EXISTING LADDERS, DOORS, RAILINGS, INGRESS AND INGRESS ROUTES OR THE LIKE ARE IN COMPLIANCE OR NON-COMPLIANCE WITH OSHA, CAL-OSHA(CALIFORNIA ONLY), OR ANY OTHER APPLICABLE STATUTE, REGULATION, OR STANDARD RELATED TO JOB SITE SAFETY DURING THE COURSE OF CONSTRUCTION OF THE IMPROVEMENTS.

SHEET INDEX

SHEET NUMBER	SHEET NAME
GENERAL	
G0.00	TITLE SHEET
G0.10	GENERAL INFORMATION
CIVIL (UNDER SEPARATE PERMIT)	
1 OF 13	TITLE SHEET
2 OF 13	NOTES AND QUANTITIES
3 OF 13	PRECISE GRADING PLAN
4 OF 13	TYPICAL SECTIONS
5 OF 13	CONSTRUCTION DETAILS
6 OF 13	CONSTRUCTION DETAILS
7 OF 13	STORM DRAIN PLAN
8 OF 13	WQMP SITE & DRAINAGE PLAN
9 OF 13	HORIZONTAL CONTROL AND STRIPING PLAN
10 OF 13	DEMOLITION PLAN
11 OF 13	EROSION CONTROL PLAN
12 OF 13	EROSION CONTROL NOTES AND DETAILS
13 OF 13	CONCEPTUAL GRADING PLAN (FOR REFERENCE ONLY)
ONSITE SEWER AND WATER (UNDER SEPARATE PERMIT)	
1 OF 3	TITLE SHEET
2 OF 3	QUANTITIES AND DETAILS
3 OF 3	UTILITY PLAN
CUCAMONGA VALLEY WATER DISTRICT (UNDER SEPARATE PERMIT)	
1 OF 3	TITLE SHEET
2 OF 3	PUBLIC WATER PLANS
3 OF 3	CONSTRUCTION DETAILS
LANDSCAPE	
L0.01	LANDSCAPE NOTES AND SCHEDULES
L1.01	SITE PLAN
L2.01	LAYOUT PLAN
L5.01	CONSTRUCTION DETAILS
L5.02	CONSTRUCTION DETAILS
L5.03	CONSTRUCTION DETAILS
L5.04	CONSTRUCTION DETAILS
L5.05	CONSTRUCTION DETAILS
L5.06	CONSTRUCTION DETAILS
LANDSCAPE PLANTING / IRRIGATION (UNDER SEPARATE PERMIT)	
L6.01	IRRIGATION PLAN
L6.02	IRRIGATION LEGEND AND NOTES
L6.03	IRRIGATION DETAILS
L6.04	IRRIGATION DETAILS
L7.01	PLANTING PLAN
L7.02	PLANTING DETAILS
STRUCTURAL	
S0.01	GENERAL NOTES
S0.02	SPECIAL INSPECTIONS
S1.01	TYPICAL SITE DETAILS
S1.02	TYPICAL MONUMENT DETAILS
S1.03	TYPICAL CANOPY DETAILS
S2.01	WALKWAY CANOPY AND SITE STRUCTURAL FOUNDATION PLAN
S2.02	STRUCTURAL SITE CANOPY FRAMING PLAN
S6.11	TYPICAL FOUNDATION AND SOG DETAILS
ELECTRICAL	
E0.01	ELECTRICAL SYMBOLS AND LEGEND SHEET
E0.02	ELECTRICAL GENERAL NOTES
E0.20	LIGHTING FIXTURE SCHEDULES & NOTES
E1.10	SITE POWER PLAN
E1.11	SITE LIGHTING PLAN
E6.00	SINGLE LINE DIAGRAM, FEEDER AND PANEL SCHEDULES
E7.00	ELECTRICAL DETAILS
E7.01	LIGHTING DETAILS
E9.01	ENERGY COMPLIANCE FORMS
TECHNOLOGY	
T0.01	TECHNOLOGY SYMBOLS LIST
T1.01	SECURITY SITE PLAN
T2.01	SECURITY DETAILS
Grand total: 56	

PROJECT DIRECTORY

OWNER INFORMATION

CITY OF RANCHO CUCAMONGA

RANCHO CUCAMONGA FIRE DISTRICT

10500 CIVIC CENTER DR, RANCHO CUCAMONGA, CA 91729

TEL: 909/477-2770 EXT. 3002 E-MAIL: MIKE.MCCLIMAN@CITYOFRC.US

CONTACT: MIKE MCCLIMAN, DEPUTY FIRE CHIEF OF ADMINISTRATION AND SUPPORT

DBE/CLIENT INFORMATION

AMG & ASSOCIATES, INC.

26535 SUMMIT CIRCLE

SANTA CLARITA, CA 91350

TEL: 661/251-7401 E-MAIL: ALBERT@AMGASSOCIATESINC.COM

CONTACT: ALBERT GIACOMAZZI

ARCHITECT

LPA, INC.

5301 CALIFORNIA AVE, SUITE 100

IRVINE, CA 92617

TEL: 949/261-1001 FAX: 949/260-1190

CONTACT: JAMES WIRICK E-MAIL: JWIRICK@LPADESIGNSTUDIOS.COM

LANDSCAPE ARCHITECT

LPA, INC.

5301 CALIFORN

CITY GENERAL GRADING NOTES

A. GRADING PROCESS

1. A GRADING PERMIT SHALL BE OBTAINED FROM THE CITY AND THE GRADING INSPECTOR SHALL BE NOTIFIED 24 HOURS PRIOR TO THE START OF ANY GRADING.
2. CLEARING AND GRUBBING, INCLUDING REMOVAL OF EXISTING STRUCTURE, FOOTINGS, FOUNDATIONS, RUBBLE, TREES AND ROOT SYSTEMS, OTHER VEGETATION, DEBRIS, ETC., SHALL BE COMPLETED TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER PRIOR TO THE START OF GRADING OPERATIONS.
3. EXCAVATION SHALL THEN BE COMPLETED AS SHOWN ON THE APPROVED PLANS,
4. IF EXPORTING 50 CUBIC YARDS OR MORE OF SOIL, THE APPLICANT SHALL PROVIDE THE LOCATION WHERE THE SOIL IS TO BE DEPOSITED ALONG WITH A LETTER OF ACCEPTANCE FROM THE PROPERTY OWNER PRIOR TO GRADING PLAN APPROVAL. IF THE SITE IS LOCATED WITHIN THE CITY OF RANCHO CUCAMONGA, A STOCKPILE PLAN AND PERMIT ARE REQUIRED.
5. THE EXPOSED SOILS SHALL THEN BE INSPECTED BY THE GEOTECHNICAL ENGINEER. ADDITIONAL OVER EXCAVATION SHALL BE MADE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATION AND AS CONTAINED IN THE SOILS REPORT.
6. THE EXPOSED SOILS SHALL THEN BE SCARIFIED TO A MINIMUM DEPTH OF 6 INCHES, BROUGHT TO PROPER MOISTURE CONTENT AND COMPACTED TO AT LEAST 90%± OF THE MAXIMUM DENSITY, AS DETERMINED BY APPENDIX SECTION J107.5 OF THE LATEST CALIFORNIA BUILDING CODE. EQUIVALENT COMPACTION CAN BE OBTAINED BY METHODS SPECIFIED BY THE GEOTECHNICAL ENGINEER.
7. PRIOR TO IMPORTING SOIL, THE GRADING CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER NOT LESS THAN 72 HOURS IN ADVANCE, SO THAT EACH PROPOSED IMPORT SOURCE CAN BE SAMPLED, TESTED, AND APPROVED PRIOR TO DELIVERY FOR USE ON THE SITE.
8. PROPER COMPACTION FOR THE ENTIRE PROJECT INCLUDING THE BACKFILL OF UTILITY TRENCHES, ETC. SHALL BE VERIFIED BY THE GEOTECHNICAL ENGINEER. HE SHALL PREPARE A COMPACTION REPORT, WHICH SHALL BE SUBMITTED TO AND APPROVED BY THE CITY PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.
9. PAD CERTIFICATION FOR ELEVATION OF ALL PADS WITHIN THE PROJECT SHALL BE SUBMITTED TO THE BUILDING INSPECTOR PRIOR TO ANY CONCRETE PLACEMENT. PAD CERTIFICATION CAN BE BY EITHER ONE APPROVED BLACK- LINE-AS-BUILT GRADING AND DRAINAGE PLAN OR IN LETTER FORMAT SHOWING THE DESIGN AND AS-BUILT PAD ELEVATIONS SHOWN ON THE APPROVED GRADING AND DRAINAGE PLAN. EITHER SHALL BE SEALED BY A CIVIL ENGINEER LICENSED IN THE STATE OF CALIFORNIA.
10. CERTIFICATES OF FINAL LOT GRADING ARE TO BE SUBMITTED TO THE ENGINEERING SERVICES DEPARTMENT PRIOR TO FINAL BUILDING INSPECTION.
11. FINAL APPROVAL INCLUDES THE CONSTRUCTION OF ALL IMPROVEMENTS SHOWN ON THE APPROVED PLAN, INCLUDING DRAINAGE FACILITIES, DRAINAGE PATTERNS, WALLS, CURBS, ASPHALT PAVEMENT, BUILDINGS, ETC, ALL ITEMS SHALL BE CONSTRUCTED TO THE LINE AND GRADE SHOWN ON THE APPROVED PLANS.
12. AN AS-GRADED GRADING PLAN AND CERTIFICATION OF COMPLIANCE SHALL BE SUBMITTED TO THE ENGINEERING SERVICES DEPARTMENT PRIOR TO RELEASE OF GRADING BOND AND PRIOR TO FINAL GRADING INSPECTION. THE PERMITTEE SHALL PROVIDE A COPY OF AS-BUILT PLANS TO THE CITY FOR A PERMANENT RECORD AT THE END OF THE APPROVED GRADING WORK.
13. A CERTIFICATE OF OCCUPANCY (C OF O) AND /OR FINAL ELECTRICAL CLEARANCE FOR ANY BUILDING WILL NOT BE RELEASED UNTIL ALL GRADING, DRAINAGE WQMP (WATER QUALITY MANAGEMENT PLAN) BEST MANAGEMENT PRACTICES) IMPROVEMENTS ARE COMPLETED AND APPROVED BY THE CITY. IN ADDITION, THE ENGINEERS AS- BUILT CERTIFICATE MUST BE WET SIGNED AND SEALED ON THE WQMP BMP EXHIBIT. THREE SETS OF EXHIBITS MUST BE SUBMITTED TO THE CITY ENGINEER, OR DESIGNEE, FOR REVIEW. THE CITY OF RANCHO CUCAMONGA WILL SUBMIT ONE ORIGINAL TO THE STATE WATER BOARD AND WILL SUBMIT A SECOND SET TO THE WEST VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT.

CERTIFICATES:

1. IN REFERENCE TO NPDES REQUIREMENTS, THE UNDERSIGNED CERTIFIES ONE OF THE FOLLOWING:
   - ☐ A NOTICE ON INTENT (NOI) IS NOT REQUIRED OF THIS DEVELOPMENT.
   - ☒ A NOI HAS BEEN FILED AND THE APPLICATION ID NUMBER IS 571995.

KATHEREEN M. SHINKAI, PE — 04/24/24
PRINT NAME — SIGNATURE — DATE

DIRECTOR OF CIVIL ENGINEERING
TITLE/CAPACITY (ENGINEER, DEVELOPER, GENERAL CONTRACTOR ETC.)

REGISTERED PROFESSIONAL ENGINEER — KATHEREEN M. SHINKAI — R.C.E. 68369 EXP. 9-30-25 — CIVIL — STATE OF CALIFORNIA

2. THE UNDERSIGNED CIVIL ENGINEER WILL BE RESPONSIBLE FOR PROFESSIONAL INSPECTION IN ACCORDANCE WITH APPENDIX J105 OF THE CURRENT ADOPTED CALIFORNIA BUILDING CODE.

PRINT NAME — SIGNATURE — DATE

REGISTRATION NUMBER_____

3. I HEREBY CERTIFY THAT I HAVE REVIEWED THIS PLAN AND THAT IT SUBSTANTIALLY CONFORMS TO SOILS REPORT NO. 038.0000020084 DATED DECEMBER 6, 2023.

PREPARED BY LEIGHTON CONSULTING, INC.

SIGNATURE OF PROFESSIONAL SOILS ENGINEER OR GEOLOGIST — DATE 3/14/2024

REGISTERED PROFESSIONAL ENGINEER — ARNOLD M. HERTZOG — No. 2711 — GEOTECHNICAL — STATE OF CALIFORNIA

4. EXISTING SURVEY MONUMENT PRESERVATION:
   I HEREBY CERTIFY THAT I HAVE IDENTIFIED ALL SURVEY MONUMENTS OF RECORD THAT COULD BE DISTURBED BY THIS PROJECT. ALL SAID MONUMENTS WHICH CURRENTLY EXIST SHALL BE PROTECTED IN PLACE OR REPLACED IN ACCORDANCE WITH SECTION 8771 OF THE CALIFORNIA BUSINESS AND PROFESSIONS. CODE.

SIGNATURE OF PROFESSIONAL LAND SURVEYOR — DATE

5. AS-BUILT CERTIFICATE:
   I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SIGNATURE OF PROFESSIONAL CIVIL ENGINEER — DATE

CITY GENERAL GRADING NOTES

B. RELATED REQUIREMENTS:

1. THE CITY ONLY APPROVES THE ENGINEERING DESIGN IN SCOPE AND NOT IN DETAIL ON THESE PLANS. THE CITY DOES NOT VERIFY CONSTRUCTION QUANTITIES ON THESE PLANS. APPROVAL OF THE PLANS ARE FOR PERMIT PURPOSES ONLY AND SHALL NOT PREVENT THE CITY FORM REQUIRING CORRECTION OF ERRORS IN THE PLANS WHERE SUCH ERRORS ARE SUBSEQUENTLY FOUND IO BE IN VIOLATION OF ANY LAW, ORDINANCE, HEALTH, SAFETY, OR OTHER DESIGN ISSUES, CITY ACCEPTANCE OF PLANS DOES NOT RELIEVE THE DEVELOPER FROM RESPONSIBILITIES FROM THE CORRECTION OF ERRORS AND OMISSIONS DISCOVERED DURING CONSTRUCTION.
2. ALL CONCRETE (PCC) WATER CARRYING DEVICES WITH SLOPES LESS THAN 0.5% SHALL BE WATER TESTED PRIOR TO FINAL INSPECTION AND ACCEPTANCE. ANY RESIDUAL PONDING IN EVIDENCE AT TIME OF INSPECTION SHALL BE CAUSE FOR REMOVAL AND REPLACEMENT.
3. DEBRIS, MUD, SILT, ETC. SHALL NOT BE DEPOSITED ON PUBLIC OR OTHER PROPERTY AT ANY TIME DURING CONSTRUCTION. ANY SUCH DEPOSITION SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
4. ALL DRAINAGE PROTECTIVE DEVICES SUCH AS SWALES, INTERCEPTOR DITCHES, PIPES, PROTECTIVE BERMS, BARRIER WALLS, CONCRETE CHANNELS, OR OTHER MEASURES DESIGNED TO PROTECT ADJACENT BUILDINGS OR PROPERTY FORM STORM RUNOFF MUST BE COMPLETED PRIOR TO BUILDING CONSTRUCTION.
5. THE ENGINEER OF RECORD ASSUMES RESPONSIBILITY FOR GRADING AND INSPECTION IN ACCORDANCE WITH APPENDIX SECTION J 105 OF THE LATEST CALIFORNIA BUILDING CODE.
6. EQUESTRIAN TRIALS SHALL BE SURFACED WITH A 4-INCH THICK SECTION COMPOSED OF 95% DECOMPOSED GRANITE (1/8" TO 3/8" DIAMETER) AND 5% COARSE SAND COMPACTED TO 90%. A COMPACTION REPORT CERTIFIED BY A SOILS ENGINEER SHALL BE SUBMITTED TO AND APPROVED BY THE CITY PRIOR TO PROJECT FINAL APPROVAL.
7. FLOODWATER CONVEYANCE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION, THE WORK SHALL BE PHASED SO THAT NEWLY CONSTRUCTED FACILITIES ARE FULLY OPERATIONAL PRIOR TO EXISTING FACILITIES BEING REMOVED.
8. A GRADING PLAN (CITY APPROVED) SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FORM THE PLAN SHALL BE PRECEDED BY AN APPROVED PLAN REVISION. UPON REQUEST OF THE BUILDING INSPECTOR, THE REQUIRED PLAN AND REVISIONS SHALL BE PROMPTLY SUBMITTED TO THE CITY ENGINEER, OR DESIGNEE, FOR REVIEW.
9. PROTECTION OF ADJACENT PROPERTY. DURING GRADING OPERATIONS, THE PERMITTEE SHALL BE RESPONSIBLE FOR THE PREVENTION OF DAMAGE TO ADJACENT PROPERTY AND NO PERSON SHALL EXCAVATE ON LAND SUFFICIENTLY CLOSE TO THE PROPERTY LINE TO ENDANGER ANY ADJOINING PUBLIC STREET, A SIDEWALK, ALLEY, OR OTHER PUBLIC OR PRIVATE PROPERTY WITHOUT SUPPORTING AND PROTECTING SUCH PROPERTY FROM SETTLING, CRACKING, OR OTHER DAMAGE WHICH MIGHT RESULT.
10. IMPROVEMENTE DAMAGED BY THE GRADING OPERATION LOCATED ON ADJACENT PROPERTY OR WITH PUBLIC RIGHT-OF-WAY SHALL BE REPAIRED OR REPLACED, AS NOTED BY CITY INSPECTORS, PRIOR TO FINAL ACCEPTANCE OF THE WORK.
11. OBSTRUCTIONS TO PROPOSED IMPROVEMENTS SHALL BE REMOVED OR RELOCATED BEFORE BEGINNING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
12. ALL WORK WITHIN THE PUBLIC RIGHT OF WAY REQUIRES SEPARATE INSPECTIONS AND PERMITS ISSUED BY THE CITY ENGINEERING DEPARTMENT.
13. SHORING PLANS AND CALCULATIONS SHALL BE PROVIDED IF FOUND NECESSARY.
14. ALL SLOPES EXCEEDING 5' IN HEIGHT AND 5:1 OR STEEPER SHALL BE PLANTED WITH APPROVED PLANT MATERIAL AND PROVIDED WITH APPROVED WATERING SYSTEM.
15. SHOULD ANY UNFORESEEN SUBSURFACE STRUCTURES BE ENCOUNTERED DURING CONSTRUCTION, THEY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD, THE GEOTECHNICAL ENGINEER, AND ENGINEERING SERVICES DEPARTMENT BEFORE PROCEEDING FURTHER.
16. UTILITY LINES (EXISTING AND PROPOSED) WITHIN THE WORK AREA SHALL BE LOCATED AND THE DEPTHS CONFIRMED BY THE CONTRACTOR. IF THE IMPROVEMENTS CANNOT BE CONSTRUCTED PER PLAN BECAUSE OF CONFLICTS, THE CONTRACTOR SHALL DISCUSS MODIFICATIONS WITH THE CITY INSPECTOR TO DETERMINE IF A PLAN REVISION OR A FIELD CHANGE IS REQUIRED.
17. ALL WALLS (RETAINING AND GARDEN) OVER 3 FEET IN FINISH HEIGHT REQUIRE SEPARATE PLANS SUBMITTAL AND DESIGN, REVIEW, PERMITS, AND INSPECTION.
18. ALL WORK SHOWN HEREON SHALL BE DONE IN ACCORDANCE WITH THE CITY OF RANCHO CUCAMONGA STANDARDS AND APPENDIX J AND CHAPTERS 18 AND 23 OF THE LATEST CALIFORNIA BUILDING CODE.
19. GRADING INSPECTIONS:
    a. PRIOR TO THE START OF GRADING OPERATIONS, THE OWNER AND GRADING CONTRACTOR SHALL REQUEST A PRE-GRADING MEETING. THE MEETING SHALL BE ATTENDED BY THE PROJECT OWNER/REPRESENTATIVE, THE GRADING CONTRACTOR AND THE BUILDING INSPECTOR TO DISCUSS ABOUT GRADING REQUIREMENTS AND PREVENTIVE MEASURES, ETC. IF A PRE-GRADING MEETING IS NOT HELD WITHIN 24 HOURS FROM THE START OF GRADING OPERATIONS, THE GRADING PERMIT MAY BE SUBJECT TO SUSPENSION BY THE BUILDING INSPECTOR;
    b. THE GRADING CONTRACTOR SHALL CALL INTO THE CITY OF RANCHO CUCAMONGA BUILDING AND SAFETY DEPARTMENT AT LEAST 1 WORKING DAY IN ADVANCE TO REQUEST THE FOLLOWING GRADING INSPECTIONS PRIOR TO CONTINUING GRADING OPERATIONS:
       (i) THE BOTTOM OF THE OVER-EXCAVATION
       (ii) COMPLETION OF ROUGH GRADING, PRIOR TO ISSUANCE OF THE BUILDING PERMIT;
       (iii) AT THE COMPLETION OF ROUGH GRADING, THE GRADING CONTRACTOR OR OWNER SHALL SUBMIT TO THE PERMIT TECHNICIANS (ENGINEERING SERVICES FRONT COUNTER) AN ORIGINAL AND A COPY OF THE PAD CERTIFICATIONS TO BE PREPARED BY AND PROPERLY WET SIGNED AND SEALED BY THE CIVIL ENGINEER AND SOILS ENGINEER OF RECORD;
       (iv) THE ROUGH GRADING OERTIFICATES AND THE COMPACTION REPORTS WILL BE REVIEWED BY THE ENGINEERING SERVICES DEPARTMENT AND APPROVED PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.
20. PRE-WATERING OF THE PROJECT/CONSTRUCTION SITE
    a) THE PRE-WATERING ACTIVITIES SHALL NOT OCCUR WITHIN 24-HOURS AFTER A RAINY DAY;
    b) THE PRE-WATERING ACTIVITIES SHALL BE DONE DURING THE DAY TIME AND THE CONTRACTOR SHALL MONITOR THE WATERING AND CORRECT OVER-WATERING SITUATIONS;
    c) CONTRACTORS SHALL IDENTIFY AND USE THE RECLAIMED OR RECYCLED WATER SOURCES, IF IT IS AVAILABLE, FOR WATERING ACTIVITIES.
21. PRIOR TO THE INSTALLATION OF ANY SURFACE OR SUBSURFACE STRUCTURAL STORM WATER TREATMENT INFILTRATION DEVICES (COMMONLY REFERRED TO AS BMP'S), THE CONTRACTOR SHALL SCARIFY TO BOTTOM OF THE INFILTRATION DEVICE TO A MINIMUM OF 12-INCHES IN DEPTH.

RAW EARTHWORK QUANTITIES

APPROXIMATE CUT:	790 CY
APPROXIMATE FILL:	210 CY
NET EXPORT:	580 CY

NOTE:
RAW EARTHWORK QUANTITIES INDICATED ARE FOR REFERENCE ONLY (NOT FOR BID OR PAYMENT). THE CONTRACTOR IS RESPONSIBLE FOR ACTUAL QUANTITIES.

HAUL ROUTE TO BE DETERMINED AT PRE-GRADE MEETING AND ALL NECESSARY PERMITS SHALL BE OBTAINED BY THE GENERAL CONTRACTOR

BENCHMARK

ELEVATIONS SHOWN HEREON ARE BASED ON THE CITY OF RANCHO CUCAMONGA BENCH MARK "10039", BEING A 2" BRASS DISC IN CONCRETE CURB STAMPED "CITY OF RANCHO CUCAMONGA BM 10039 1987" AT NORTHWEST CORNER OF FOOTHILL BOULEVARD AND HAVEN AVENUE, 1 FOOT NORTH OF BCR AT SOUTHERLY END OF CATCH BASIN.

ELEVATION = 1208.173'.

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS PROJECT IS THE CENTERLINE OF TOWN CENTER DRIVE, BEING N67°30'08"W AS SHOWN ON AMENDING PARCEL MAP NO. 11030, RECORDED IN P.M.B. 145/34-39, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA.

LEGAL DESCRIPTION

IN THE CITY OF RANCHO CUCAMONGA, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA.

BEING PARCEL "F" OF INSTRUMENT NO. 2000-418834, OFFICIAL RECORDS OF SAN BERNARDINO COUNTY, AND BEING A PORTION OF PARCEL 4 OF PARCEL MAP NO. 15476 ON FILE IN BOOK 191 OF PARCEL MAPS, AT PAGES 23 THROUGH 25 INCLUSIVE, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

EARTHWORK NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE GRADING PLANS AND SOILS REPORT THOROUGHLY PRIOR TO SITE MOBILIZATION. IT IS ALSO THE GRADING CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CIVIL AND SOILS ENGINEERS IF ONSITE DISCREPANCIES ARE OBSERVED THAT WOULD AFFECT THE EARTHWORK QUANTITIES.
2. THE EXISTING TOPOGRAPHY AS DELINEATED ON THESE DRAWINGS SHALL BE UTILIZED AS THE BASIS FOR ALL EARTHWORK COMPUTATIONS. SAID TOPOGRAPHY SHALL BE PRESUMED TO BE ACCEPTABLE TO ALL INTERESTED PARTIES UNLESS A DEVIATION IS FOUND PRIOR TO THE START OF GRADING IN ANY SPECIFIC AREAS. ANY DEVIATION SO DETERMINED SHALL BE PROMPTLY TRANSMITTED TO ALL INTERESTED PARTIES.
3. THE CONTRACTOR IS REQUIRED TO ESTIMATE THE QUANTITIES OF GRADING WORK TO BE DONE AND INCLUDE ALL COSTS THEREFROM WITH HIS BID, AS NO ADDITIONAL ALLOWANCE WILL BE MADE WITHOUT PRIOR CONSENT FROM THE OWNER.
4. OVER-EXCAVATION AND/OR EXCESS BACKFILLING OR DUPLICATION OF GRADING ACTIVITIES IS NOT A BASIS FOR ADDITIONAL COMPENSATION. THIS ALSO APPLIES WHERE MATERIAL IS TO BE REMOVED AND REPLACED TO REDUCE MOISTURE CONTENT.
5. OFF-SITE DISPOSAL OF EXCAVATION MATERIAL IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED IN THE BID. THE CONTRACTOR SHALL HOLD THE OWNER AND ENGINEER HARMLESS AS A RESULT OF ANY CLAIMS ARISING FROM THE ACTIONS EN ROUTE OR AWAY FROM THE SITE.
6. EARTH VOLUMES SHOWN HEREON ARE ESTIMATES BASED UPON THE GEOTECHNICAL ANALYSIS PERFORMED BY THE NAMED SOILS ENGINEER AND TOPOGRAPHIC SURVEY OF THE EXISTING GROUND SURFACE AT THE TIME OF PLAN PREPARATION. EARTHWORK VOLUMES ARE COMPUTED BY METHODS COMMONLY USED IN STANDARD ENGINEERING PRACTICE, AND ARE INTENDED FOR USE IN ESTABLISHING GOVERNING AGENCY FEES. ACTUAL FIELD CONDITIONS MAY VARY FROM OBSERVED OR MEASURED CONDITIONS AT THE TIME OF PLAN PREPARATION. EARTHWORK QUANTITIES MAY VARY AS A RESULT.
7. ANY EXPORT OR IMPORT REQUIRED TO BALANCE THE SITE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
8. PAVEMENT AND SUBGRADE RECOMMENDATIONS RELATED TO OVER-EXCAVATION, PAVEMENT SUBGRADE, ETC., PER GEOTECHNICAL REPORT.

GEOTECHNICAL INFORMATION

FOR SITE PREPARATION, OVEREXCAVATION, FOUNDATION RECOMMENDATIONS, PAVEMENT, SUBGRADE, AND GRADATION REQUIREMENTS SEE GEOTECHNICAL INVESTIGATION REPORT ENTITLED:

"GEOTECHNICAL EXPLORATION 9/11 MEMORIAL PARK
TERRA VISTA PARKWAY, SOUTH OF TOWN CENTER DRIVE
RANCHO CUCAMONGA, CALIFORNIA"

PREPARED BY: LEIGHTON CONSULTING, INC.
10532 ACACIA STREET
Suite B-6
RANCHO CUCAMONGA, CA 91730

PROJECT NO: 038.0000020084

DATED: DECEMBER 6, 2023

OWNER/DEVELOPER

OWNER/DEVELOPER: RANCHO CUCAMONGA FIRE PREVENTION DISTRICT
ADDRESS: 10500 CIVIC CENTER DRIVE, RANCHO CUCAMONGA, CA 91729
CONTACT NAME: MIKE McCLIMAN
TELEPHONE: 909-477-2770 EXT. 3002

CIVIL ENGINEER

COMPANY: LPA, INC.
ADDRESS: 5301 CALIFORNIA AVENUE, SUITE 100, IRVINE, CA 92617
CONTACT: KATHEREEN M. SHINKAI, PE
TELEPHONE: 949-701-4033

UTILITY PURVEYORS

1.	ELECTRICITY	SOUTHERN CALIFORNIA EDISON	800-655-4555
		RANCHO CUCAMONGA MUNICIPAL UTILITY	909-919-2612
2.	GAS	SOUTHERN CALIFORNIA GAS	800-427-2200
3.	CABLE TV	SPECTRUM	888-892-4357
		FRONTIER COMMUNICATIONS	855-386-1691
		DIRECTV	844-872-8154
4.	SEWER	CUCAMONGA VALLEY WATER DISTRICT	909-944-6000
5.	WATER	CUCAMONGA VALLEY WATER DISTRICT	909-944-6000
6.	REFUSE	BURRTEC DISPOSAL	909-987-3717
7.	SATELLITE	HUGHESNET	877-464-9363

GRADING CONSTRUCTION DATES

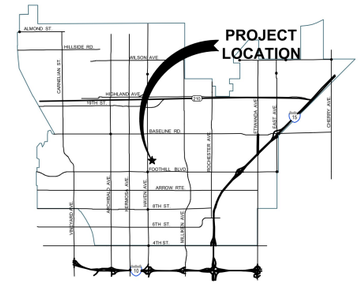
BEGIN DATE: XX-XX-2023
END DATE: XX-XX-2023

LEGEND

SYMBOL	DESCRIPTION
	DOUBLE DETECTOR CHECK (DBL CHK)
WM	WATER METER
	VALVE
	DRAIN INLET
	DRYWELL
	CLEANOUT

VICINITY MAP

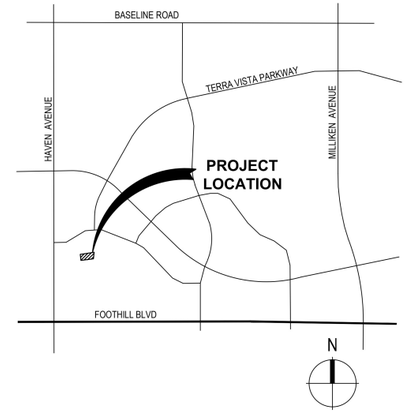
N.T.S.



N

LOCATION MAP

N.T.S.



SHEET INDEX

1	TITLE SHEET
2	NOTES AND QUANTITIES
3	PRECISE GRADING PLAN
4	TYPICAL SECTIONS
5	CONSTRUCTION DETAILS
6	CONSTRUCTION DETAILS
7	STORM DRAIN PLAN
8	WQMP SITE AND DRAINAGE PLAN
9	HORIZONTAL CONTROL PLAN
10	DEMOLITION PLAN
11	EROSION CONTROL PLAN
12	EROSION CONTROL NOTES AND DETAILS
13	CONCEPTUAL GRADING PLAN (FOR REFERENCE ONLY)

AREA SUMMARY

TOTAL DISTURBED AREA = 1.36± ACRES

PGR2023-00024 D.R.C. NO. 2023-00423

DATE	SUBMITTAL

DIG ALERT — DIAL TOLL FREE 1-800-227-2600 — AT LEAST TWO DAYS BEFORE YOU DIG — UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

DATE	BY	MARK	REVISIONS	APPR.	DATE
	ENGINEER			CITY	

DESIGNED BY: AT DRAWN BY: AT CHECKED BY: KS

SEAL — REGISTERED PROFESSIONAL ENGINEER — KATHEREEN M. SHINKAI — R.C.E. 68369 EXP. 9-30-25 — CIVIL — STATE OF CALIFORNIA

APPROVED BY: _____ DATE 06/24/2024
ACTING CITY ENGINEER
STEVE R. LORISO RCE: 64701

PREPARED BY: _____ DATE 04/24/2024
KATHEREEN M. SHINKAI
CIVIL ENGINEER
R.C.E. NO. 68369 EXP. DATE 09/30/2025

LPA — 949-261-1001 Office, 949-260-1190 Fax, LPADesignStudios.com, 5301 California Avenue, Suite 100, Irvine, California 92617
AMG & ASSOCIATES — 661-251-7401 Office, AMGAssociates.com, 26535 Summit Circle, Santa Clarita, CA 91350
ARCHITECTURE ENGINEERING INTERIORS LANDSCAPE ARCHITECTURE PLANNING
DESIGN-BUILD TEAM

SCALE: NO SCALE
DATE 04/24/2024

BENCHMARK: ELEVATIONS SHOWN HEREON ARE BASED ON THE CITY OF RANCHO CUCAMONGA BENCH MARK "10039", BEING A 2" BRASS DISC IN CONC CURB STAMPED "CITY OF RANCHO CUCAMONGA BM 10039 1987" AT NW CORNER OF FOOTHILL BLVD AND HAVEN AVE, 1' NORTH OF BCR AT S'LY END OF CATCH BASIN. ELEV = 1208.173'.

CITY OF RANCHO CUCAMONGA
9/11 MEMORIAL PARK
TERRA VISTA AVENUE
TITLE SHEET

SHEET NO. 1
OF 13 SHEETS
DWG. NO. 3078

DEMOLITION NOTES

1. THE INTENT OF THE DEMOLITION PLAN IS TO DESCRIBE IN GENERAL THE DEMOLITION AREAS AFFECTED BY THE PROJECT CONSTRUCTION. IT IS NOT INTENDED AS A DETAILED DESCRIPTION OF EXISTING ITEMS OR ELEMENTS TO BE REMOVED. THE CONTRACTOR SHALL VISIT THE SITE AND REVIEW ANY AVAILABLE RECORD DOCUMENTS TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND SHOULD INCLUDE THE REMOVAL OF ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE BINDING AS IF REQUIRED BY ALL TO THE EXTENT THAT IT IS REASONABLY INFERABLE FROM THEM AS BEING NECESSARY TO PRODUCE THE INTENDED RESULTS.

2. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY SEARCH OF THE AVAILABLE RECORDS AND FIELD SURVEYS AND PROVIDED BY THE OWNER. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT, UTILITY COMPANIES, AND/OR FIELD VERIFY AND LOCATE ALL UTILITIES BEFORE PROCEEDING WITH WORK. THE CONTRACTOR IS ALSO REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. NOTIFY THE ENGINEER IF ADDITIONAL UTILITIES ARE LOCATED OR IF CONFLICTS ARE FOUND WITH EXISTING CONDITIONS.

3. ALL TREES TO BE REMOVED SHALL BE MARKED BY CONTRACTOR AND APPROVED FOR REMOVAL BY THE OWNER OR OWNER'S REPRESENTATIVE PRIOR TO REMOVING OR CUTTING TREE(S). EXISTING ROOTS SHALL BE GRINDED TO A DEPTH OF APPROXIMATELY 3-FEET. USE CAUTION WHILE GRINDING WHEN EXISTING UTILITIES ARE IN CLOSE PROXIMITY TO TREES. ALL TREES TO REMAIN WITHIN THE LIMIT OF WORK SHALL BE PROTECTED AND MAINTAINED PER SPECIFICATIONS AND DETAILS.

4. SAWCUT EXISTING CONCRETE AND ASPHALT TO AN EXISTING CONTROL JOINT WHERE POSSIBLE, AT MINIMUM TO A NEAT-STRAIGHT LINE. ALL DEBRIS SHALL BE HAULED OFFSITE TO A LEGAL DUMPING SITE OR SALVAGED FOR REUSE ON PROJECT AS NOTED.

5. WORK WITHIN CITY, COUNTY, OR STATE RIGHT-OF-WAY REQUIRES A SEPARATE ENCROACHMENT PERMIT WHICH THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING PRIOR TO STARTING WORK WITHIN RIGHT-OF-WAY.

6. CONTRACTOR TO COORDINATE UTILITY DEMOLITION WITH DRAINAGE AND UTILITY WORK SHOWN IN THIS PLAN SET. ALL UTILITY SHUTDOWNS SHALL BE COORDINATED PER PROJECT SPECIFICATIONS.

7. THE CONTRACTOR SHALL RECYCLE CONSTRUCTION DEBRIS, ASPHALT, AND CONCRETE GENERATED FROM REMOVALS REQUIRED TO CONSTRUCT THE PROJECT. THE CONTRACTOR IS OBLIGATED, UNDER THIS CONTRACT, TO RECYCLE THE WASTE MATERIAL THROUGH AN APPROVED RECYCLING PLANT.

8. A LIST OF FACILITIES THAT ACCEPT CONSTRUCTION & DEMOLITION DEBRIS CAN BE FOUND ON THE CALRECYCLE WEBSITE AT: HTTPS://WWW.CALRECYCLE.CA.GOV/CONDEMO

9. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING SIDEWALK FINISHES DURING DEMOLITION. ANY FINISH THAT IS DAMAGED DURING DEMOLITION SHALL BE REPAIRED OR REPLACED IN-KIND OR BETTER.

STORM DRAIN CONSTRUCTION NOTES

		QUANTITIES
30	INSTALL PVC SDR 35 (ASTM 3034). SIZE AS SHOWN. TRENCH BEDDING AND BACKFILL PER DETAIL 03 SHEET 6.	6"- 269 LF 8"- 477 LF 10" - 142 LF 12" - 138 LF
31	INSTALL 12"X12" PRECAST CONCRETE DRAIN IN..ET PER DETAIL 04 SHEET 6. INSTALL STORM DRAIN SIGNAGE PER DETAIL 02 SHEET '2.	20 EA
32	INSTALL 18"X18" PRECAST CONCRETE DRAIN IN..ET PER DETAIL 04 SHEET 6. INSTALL STORM DRAIN SIGNAGE PER DETAIL 02 SHEET '2.	5 EA
33	INSTALL NYOPLAST 30" DRAIN BASIN WITH SOLID COVER PER DETAIL 09 SHEET 5.	1 EA
34	INSTALL DROP INLET FILTER (OLDCASTLE FLOGARD CATCH BASIN INSERT FILTER OR APPROVED EQUAL).	25 EA
35	INSTALL STORM DRAIN CLEANOUT PER DETAIL)1 SHEET 6.	3 EA
36	CONSTRUCT HEADWALL PER SAN BERNARDINC COUNTY STANDARD PLAN 209A (MODIFIED, L=3').	3 EA
37	CONSTRUCT GROUTED RIP-RAP (AVERAGE ROCK SIZE 8"-12"± WITH NO ROCKS SMALLER THAN 8" IN ANY GIVEN DIRECTION) AT END OF SWALE. 3' WIDE X 2' THICK FROM TOP OF SLOPE TO BOTTOM OF SLOPE.	1 EA
38	CONSTRUCT JUNCTION STRUCTURE NO. 2 FOR PIPE CONNECTION TO EXISTING STORM DRAIN PER CITY OF RANCHO CUCAMONGA STANDARD PLAN NO. 331. A = 90°, B = 18", C = 12", D = 36".	1 EA
39	INSTALL HDPE STORM DRAIN PIPE. SIZE AS SHOWN. TRENCH BEDDING AND BACKFILL PER DETAIL 03 SHEET 6.	97 LF
40	INSTALL TEE, REDUCING TEE, WYE, OR REDUCING WYE, SIZE TO MATCH ADJACENT PIPE SIZES.	14 EA

GRADING CONSTRUCTION NOTES

		QUANTITIES
01	CONSTRUCT DECOMPOSED GRANITE SURFACE PER LANDSCAPE PLANS.	17,400 SF
02	CONSTRUCT BIORETENTION BASIN WITH NO UNDERDRAINS, AND SINGLE SAND TRENCH BENEATH LONGEST BASIN DIMENSION, PER DETAIL 05 SHEET 6.	998 SF
03	CONSTRUCT CURB (TYPE A1-6) PER CITY OF RANCHO CUCAMONGA STANDARD PLAN NO. 104.	74 LF
04	CONSTRUCT CURB (TYPE D1-6) PER CITY OF RANCHO CUCAMONGA STANDARD PLAN NO. 104.	26 LF
05	CONSTRUCT ACCESSIBLE CURB RAMP (4" PCC WITH #4 @ 30" OC, EW, CONCRETE PAVING OVER 95% COMPACTED SUBGRADE) PER DETAIL 07 SHEET 5.	84 SF
06	CONSTRUCT 3" AC OVER 4" AB (CLASS II) PER GEOTECHNICAL ENGINEER'S RECOMMENDATION.	776 SF
07	CONSTRUCT VALLEY GUTTER PER DETAIL 07 SHEET 6.	39 LF
08	GRIND EXISTING AC PAVING AND CONSTRUCT AC OVERLAY.	1,502 SF
09	INSTALL BENCH PER LANDSCAPE PLANS.	15 EA
10	INSTALL PICNIC TABLE PER LANDSCAPE PLANS.	3 EA
11	INSTALL DRINKING FOUNTAIN PER LANDSCAPE PLANS.	1 EA
12	INSTALL STEEL MEMORIAL STRUCTURE PER LANDSCAPE AND STRUCTURAL PLANS.	1 EA
13	INSTALL CONCRETE PAVERS PER LANDSCAPE PLANS.	321 SF
14	INSTALL ROCK COBBLE PER LANDSCAPE PLANS.	1,713 SF
15	INSTALL FLIGHT 93 PENTAGON ARTIFACT CASE PER LANDSCAPE AND STRUCTURAL PLANS.	2 EA
16	CONSTRUCT WHEEL STOP PER DETAIL 01 SHEET 5.	3 EA
17	CONSTRUCT PEDESTRIAN CONCRETE PAVING PER DETAIL 06 SHEET 6.	57 SF

DATE	SUBMITTAL

DIG ALERT
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

DATE	BY	MARK	REVISIONS	APPR.	DATE
				CITY	

DESIGNED BY: AT DRAWN BY: AT CHECKED BY: KS

SEAL
REGISTERED PROFESSIONAL ENGINEER
KATHEREEN M. SHINKAI
R.C.E. 68369
EXP. 9-30-25
CIVIL
STATE OF CALIFORNIA

APPROVED BY: DATE 06/24/2024
STEVE R. LORISO ACTING CITY ENGINEER RCE: 64701

PREPARED BY: DATE 04/24/2024
KATHEREEN M. SHINKAI
CIVIL ENGINEER
R.C.E. NO. 68369 EXP. DATE 09/30/2025

LPA
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue, Suite 100
Irvine, California 92617
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING

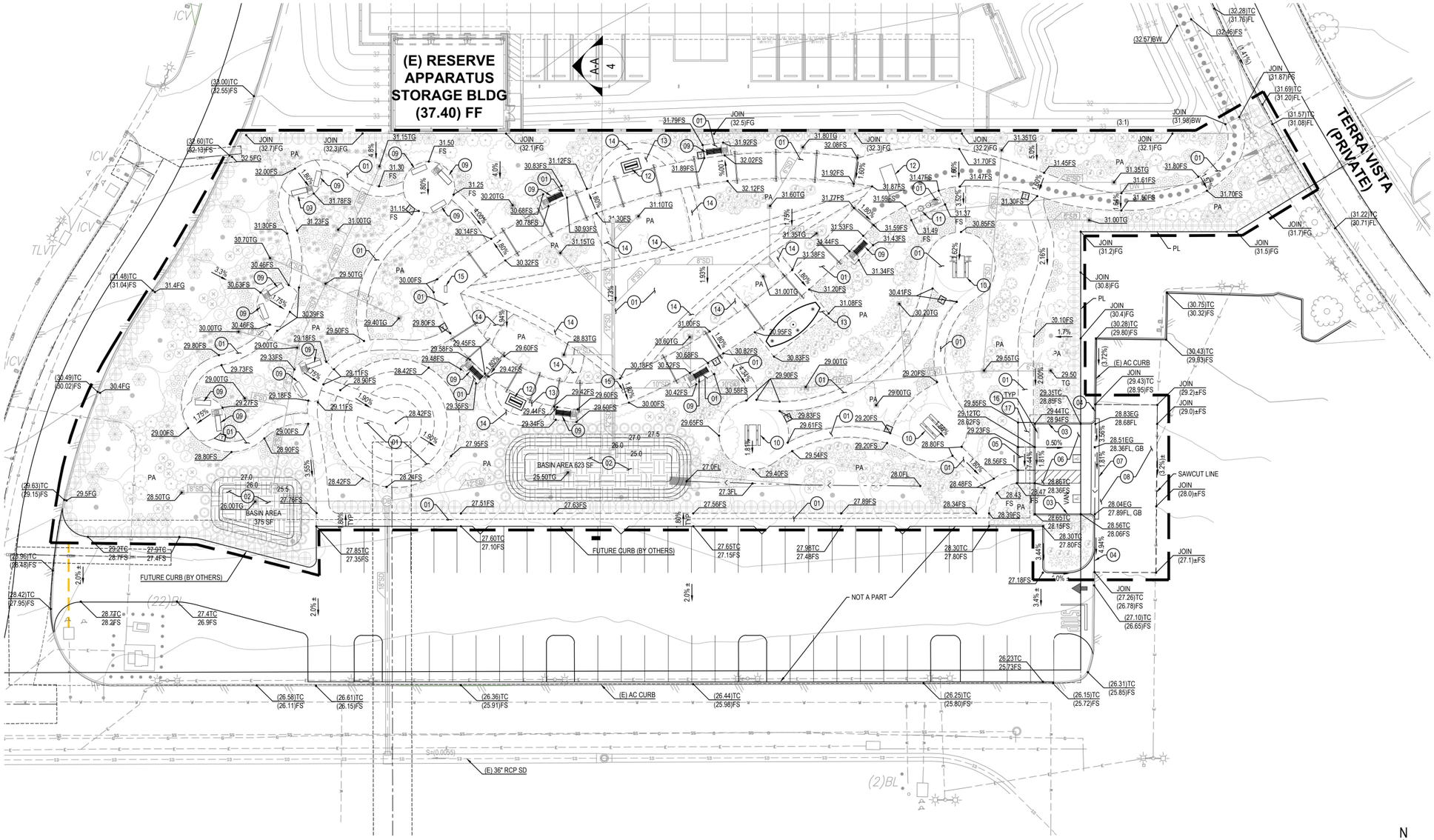
AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350
DESIGN-BUILD TEAM

SCALE: NO SCALE
DATE 04/24/2024

BENCHMARK: ELEVATIONS SHOWN HEREON ARE BASED ON THE CITY OF RANCHO CUCAMONGA BENCH MARK "10039", BEING A 2" BRASS DISC IN CONC CURB STAMPED "CITY OF RANCHO CUCAMONGA BM 10039 1987" AT NW CORNER OF FOOTHILL BLVD AND HAVEN AVE, 1' NORTH OF BCR AT SLY END OF CATCH BASIN. ELEV = 1208.173'.

CITY OF RANCHO CUCAMONGA
9/11 MEMORIAL PARK
TERRA VISTA AVENUE
NOTES AND QUANTITIES

SHEET NO. 2 OF 13 SHEETS
DWG. NO. 3078



SYMBOL	DESCRIPTION
PA	PLANTING AREA SEE LANDSCAPE PLAN DETAILS FOR GRADES ADJACENT TO HARDSCAPE.
	APPROXIMATE LIMIT OF WORK.
	SAWCUT (E) PAVEMENT AS NEEDED. SEE DEMOLITION PLAN.
	BIORETENTION BASIN WITH NO UNDERDRAINS
	ACCESSIBLE PATH OF TRAVEL

NOTES TO CONTRACTOR:

1) ELEVATIONS SHOWN ON PLAN ARE TRUNCATED VALUES. ADD 1200 TO THE ELEVATIONS SHOWN FOR CONSTRUCTION STAKING BASED ON THE PROJECT BENCHMARK.

2) CONTRACTOR SHALL VERIFY JOIN LOCATION (HORIZONTAL AND VERTICAL) PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICT.

GRADING CONSTRUCTION NOTES

01	CONSTRUCT DECOMPOSED GRANITE SURFACE PER LANDSCAPE PLANS.
02	CONSTRUCT BIORETENTION BASIN WITH NO UNDERDRAINS, AND SINGLE SAND TRENCH BENEATH LONGEST BASIN DIMENSION, PER DETAIL 05 SHEET 6.
03	CONSTRUCT CURB (TYPE A1-6) PER CITY OF RANCHO CUCAMONGA STANDARD PLAN NO. 104.
04	CONSTRUCT CURB (TYPE D1-6) PER CITY OF RANCHO CUCAMONGA STANDARD PLAN NO. 104.
05	CONSTRUCT ACCESSIBLE CURB RAMP (4" PCC WITH #4 @ 30" OC, EW, CONCRETE PAVING OVER 95% COMPACTED SUBGRADE) PER DETAIL 07 SHEET 5.
06	CONSTRUCT 3" AC OVER 4" AB (CLASS II) PER GEOTECHNICAL ENGINEER'S RECOMMENDATION.
07	CONSTRUCT VALLEY GUTTER PER DETAIL 07 SHEET 6.
08	GRIND EXISTING AC PAVING AND CONSTRUCT AC OVERLAY.
09	INSTALL BENCH PER LANDSCAPE PLANS.
10	INSTALL PICNIC TABLE PER LANDSCAPE PLANS.
11	INSTALL DRINKING FOUNTAIN PER LANDSCAPE PLANS.
12	INSTALL STEEL MEMORIAL STRUCTURE PER LANDSCAPE AND STRUCTURAL PLANS.
13	INSTALL CONCRETE PAVERS PER LANDSCAPE PLANS.
14	INSTALL ROCK COBBLE PER LANDSCAPE PLANS.
15	INSTALL FLIGHT 93 PENTAGON ARTIFACT CASE PER LANDSCAPE AND STRUCTURAL PLANS.
16	CONSTRUCT WHEEL STOP PER DETAIL 01 SHEET 5.
17	CONSTRUCT PEDESTRIAN CONCRETE PAVING PER DETAIL 06 SHEET 6.

N

0 10 20 40

DATE	SUBMITTAL

DIG ALERT
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

DATE	BY	MARK	REVISIONS	APPR.	DATE
				CITY	

DESIGNED BY: AT DRAWN BY: AT CHECKED BY: KS

SEAL
REGISTERED PROFESSIONAL ENGINEER
KATHEREEN M. SHINKAI
R.C.E. 68369
EXP. 9-30-25
CIVIL
STATE OF CALIFORNIA

APPROVED BY: DATE 06/24/2024
ACTING CITY ENGINEER
STEVE R. LORISO RCE: 64701

PREPARED BY: DATE 04/24/2024
KATHEREEN M. SHINKAI
CIVIL ENGINEER
R.C.E. NO. 68369 EXP. DATE 09/30/2025

949-261-1001 Office
949-260-1190 Fax
5301 California Avenue, Suite 100
Irvine, California 92617

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

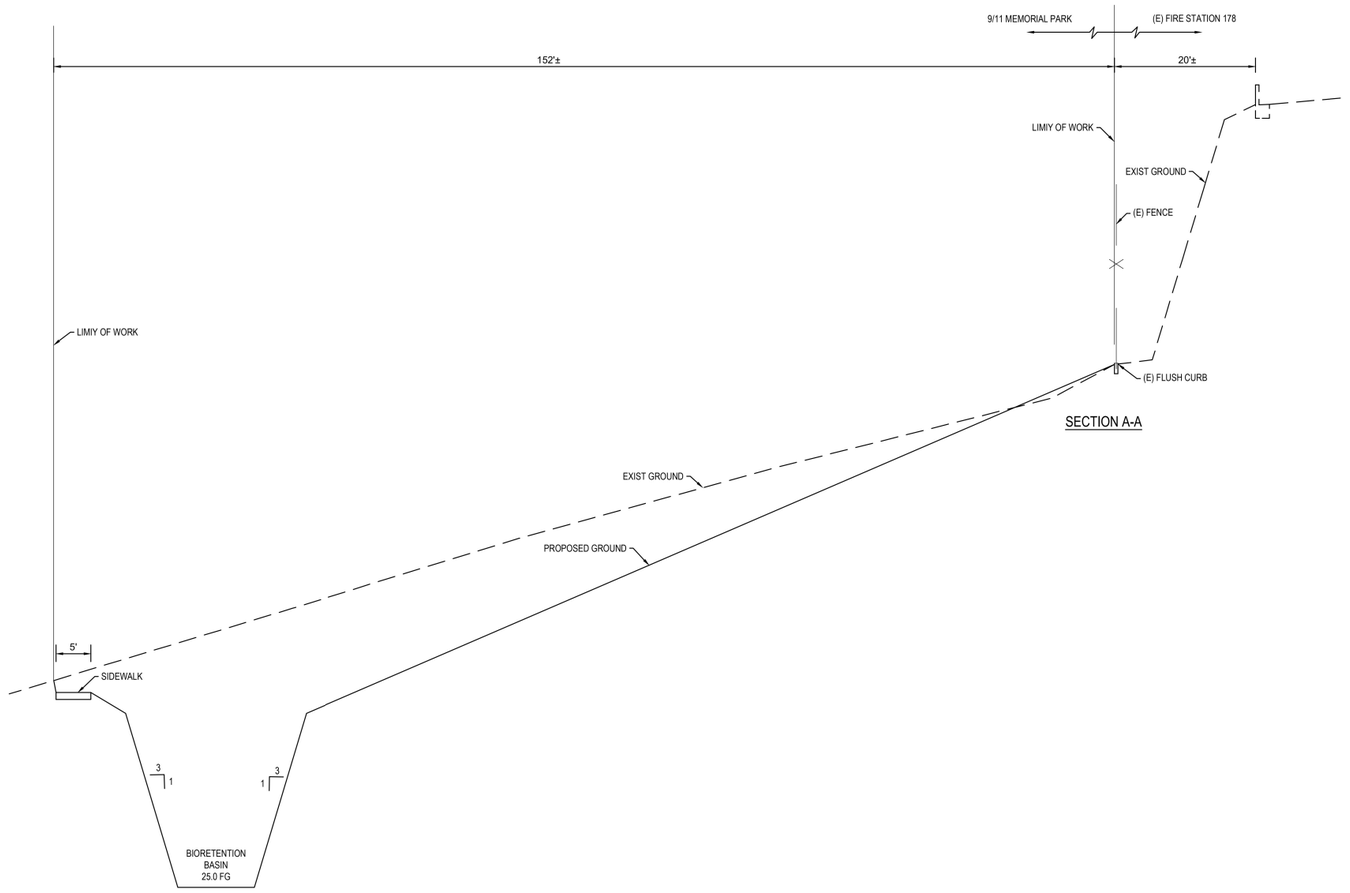
DESIGN-BUILD TEAM

SCALE: 1"=20'
DATE 04/24/2024

BENCHMARK: ELEVATIONS SHOWN HEREON ARE BASED ON THE CITY OF RANCHO CUCAMONGA BENCH MARK "10039", BEING A 2" BRASS DISC IN CONC CURB STAMPED "CITY OF RANCHO CUCAMONGA BM 10039 1987" AT NW CORNER OF FOOTHILL BLVD AND HAVEN AVE, 1' NORTH OF BCR AT S'LY END OF CATCH BASIN. ELEV = 1208.173'.

CITY OF RANCHO CUCAMONGA
9/11 MEMORIAL PARK
TERRA VISTA AVENUE
PRECISE GRADING PLAN

SHEET NO. 3 OF 13 SHEETS
DWG. NO. 3078



SECTION A-A

DATE	SUBMITTAL

DIG ALERT
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

DATE	BY	MARK	REVISIONS	APPR.	DATE
				CITY	

DESIGNED BY: AT DRAWN BY: AT CHECKED BY: KS

SEAL
REGISTERED PROFESSIONAL ENGINEER
KATHEREEN M. SHINKAI
R.C.E. 68369
EXP. 9-30-25
CIVIL
STATE OF CALIFORNIA

APPROVED BY: DATE 06/24/2024
ACTING CITY ENGINEER
STEVE R. LORISO RCE: 64701

PREPARED BY: DATE 04/24/2024
KATHEREEN M. SHINKAI
CIVIL ENGINEER
R.C.E. NO. 68369 EXP. DATE 09/30/2025

LPA
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue, Suite 100
Irvine, California 92617
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING

AMG
AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

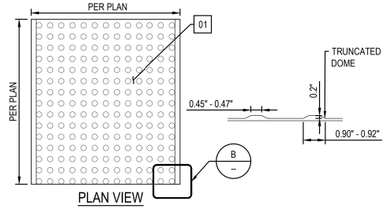
DESIGN-BUILD TEAM

SCALE: NO SCALE
DATE 04/24/2024

BENCHMARK: ELEVATIONS SHOWN HEREON ARE BASED ON THE CITY OF RANCHO CUCAMONGA BENCH MARK "10039", BEING A 2" BRASS DISC IN CONC CURB STAMPED "CITY OF RANCHO CUCAMONGA BM 10039 1987" AT NW CORNER OF FOOTHILL BLVD AND HAVEN AVE, 1' NORTH OF BCR AT S'LY END OF CATCH BASIN. ELEV = 1208.173'.

CITY OF RANCHO CUCAMONGA
9/11 MEMORIAL PARK
TERRA VISTA AVENUE
TYPICAL SECTIONS

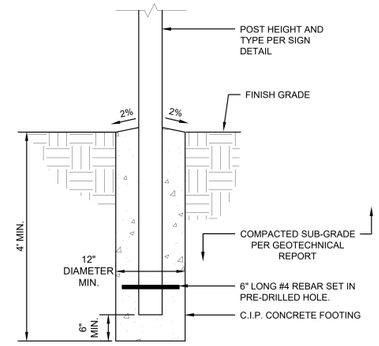
SHEET NO. **4** OF 13 SHEETS
DWG. NO. **3078**



01 SEE SPECIFICATIONS SECTION 321313 CONCRETE PAVING

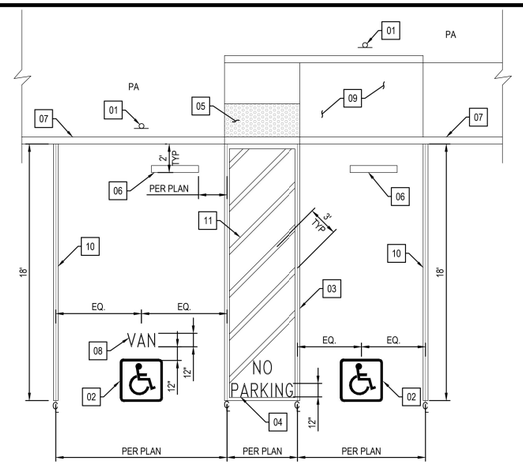
NOTE:
- THE DETECTABLE WARNING SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP.
- DETECTABLE WARNING SURFACES SHALL BE YELLOW AND APPROXIMATE 33538 OF SAE AMS-STD-595A.

DETECTABLE WARNING — NTS — 08



NOTE:
1. CONCRETE BATCH PLANT INSPECTION IS NOT REQUIRED.

SIGN POST FOOTING — NTS — 06



01 ACCESSIBLE PARKING SIGN. CENTERED ON PARKING STALL. SEE DETAIL 04 THIS SHEET.

02 INTERNATIONAL SYMBOL OF ACCESSIBILITY EMBLEM. CENTERED AT END OF PARKING STALL. SEE DETAIL 02 THIS SHEET.

03 LOADING AND UNLOADING ZONE ACCESS AISLE BORDER PAINTED BLUE (COLOR NO. 15090 PER FEDERAL STD. NO. 595) STRIPING, 4" WIDE

04 WITHIN THE ACCESSIBLE LOADING AISLE PAINT THE WORDS "NO PARKING" IN 12" HIGH LETTERS, WHITE PAINT

05 TRUNCATED DOMES. SEE DETAIL 08 THIS SHEET.

06 PRE-CAST CONCRETE WHEEL STOP. SEE DETAIL 01 THIS SHEET.

07 CONCRETE CURB PER CITY STANDARD.

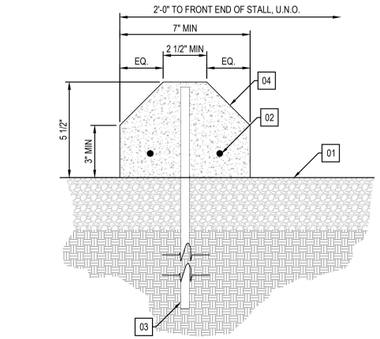
08 IN THE VAN ACCESSIBLE PARKING STALL PAINT THE WORD "VAN" IN 12" HIGH LETTERS, WHITE PAINT AS SHOWN ON PLAN

09 ACCESSIBLE CURB RAMP. SEE DETAIL 07 THIS SHEET.

10 4" WIDE BLUE STRIPE

11 4" HATCH STRIPE PAINTED WHITE. HATCH STRIPING SHALL NOT ENCROACH INTO "NO PARKING" LETTERING.

ACCESSIBLE PARKING STALLS - PERPENDICULAR — NTS — 03



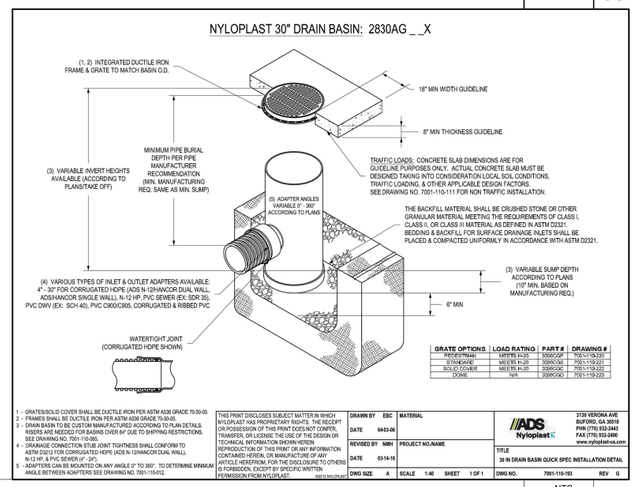
01 FINISHED SURFACE

02 (2) #3 REBAR CONTINUOUS TYP

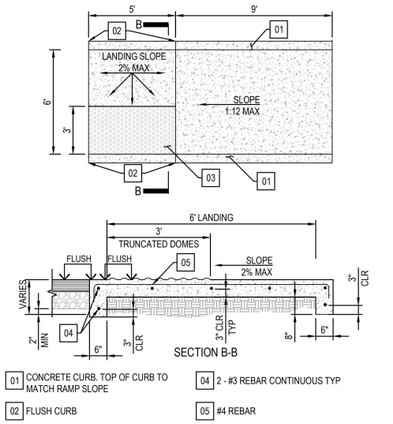
03 #4 x 18" REBAR AT EACH END

04 PRE-CAST CONC. WHEEL STOP 4'-0" LONG AT SINGLE STALL, 6'-0" LONG AT STALLS SHARED

PRE-CAST CONCRETE WHEEL STOP — NTS — 01



NYLOPLAST 30" DRAIN BASIN — NTS — 09



01 CONCRETE CURB. TOP OF CURB TO MATCH RAMP SLOPE

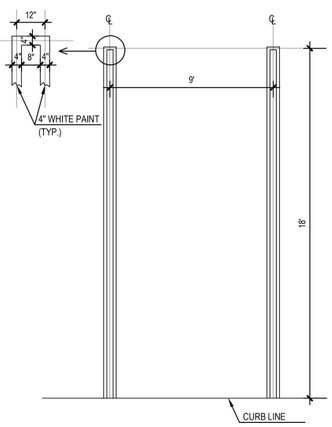
02 FLUSH CURB

03 DETECTABLE WARNING DETAIL 08

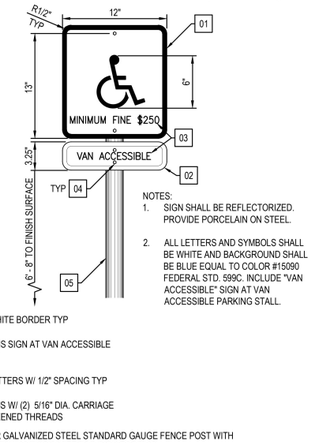
04 2 - #3 REBAR CONTINUOUS TYP

05 #4 REBAR

ACCESSIBLE CURB RAMP — NTS — 07



PARKING STALL STRIPING — NTS — 05



NOTES:
1. SIGN SHALL BE REFLECTORIZED. PROVIDE PORCELAIN ON STEEL.
2. ALL LETTERS AND SYMBOLS SHALL BE WHITE AND BACKGROUND SHALL BE BLUE EQUAL TO COLOR #15090 FEDERAL STD. 599C. INCLUDE "VAN ACCESSIBLE" SIGN AT VAN ACCESSIBLE PARKING STALL.

01 1/2" WIDE WHITE BORDER TYP

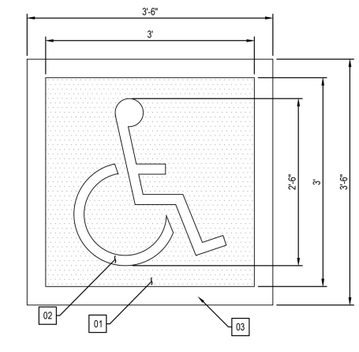
02 PROVIDE THIS SIGN AT VAN ACCESSIBLE STALL ONLY

03 2" WHITE LETTERS W/ 1/2" SPACING TYP

04 MOUNT SIGNS W/ (2) 5/16" DIA. CARRIAGE BOLTS W/ PEENED THREADS

05 2" DIAMETER GALVANIZED STEEL STANDARD GAUGE FENCE POST WITH CAP. SEE DETAIL 06 THIS SHEET FOR SIGN FOOTING.

ACCESSIBLE PARKING SIGN — NTS — 04



01 BLUE BACKGROUND CONFORMING TO FEDERAL STANDARD 595 COLOR FS 15090

02 2" WIDE WHITE REFLECTORIZED PAINT STRIPING. PER CBC FIGURE 11B-703.7.2.1

03 WHITE REFLECTORIZED PAINT STRIPING

NOTES:
A. STENCIL ONE SYMBOL ONTO PARKING SURFACE IN EACH ACCESSIBLE STALL.
B. LOCATE PER ACCESSIBLE PARKING STALL DETAIL.
C. ALL LINES WHITE ON BLUE BACKGROUND.

INTERNATIONAL SYMBOL OF ACCESSIBILITY — NTS — 02

DATE	SUBMITTAL

DIG ALERT
DIAL TOLL FREE 1-800-227-2600
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

DATE	BY	MARK	REVISIONS	APPR.	DATE
	ENGINEER			CITY	

DESIGNED BY: AT DRAWN BY: AT CHECKED BY: KS

SEAL
REGISTERED PROFESSIONAL ENGINEER — KATHEREEN M. SHINKAI — R.C.E. 68369 EXP. 9-30-25 — CIVIL — STATE OF CALIFORNIA

APPROVED BY: DATE 06/24/2024
ACTING CITY ENGINEER
STEVE R. LORISO RCE: 64701

PREPARED BY: DATE 04/24/2024
KATHEREEN M. SHINKAI
CIVIL ENGINEER
R.C.E. NO. 68369 EXP. DATE 09/30/2025

LPA
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue, Suite 100
Irvine, California 92617
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

DESIGN-BUILD TEAM

SCALE: NO SCALE
DATE 04/24/2024

BENCHMARK: ELEVATIONS SHOWN HEREON ARE BASED ON THE CITY OF RANCHO CUCAMONGA BENCH MARK "10039", BEING A 2" BRASS DISC IN CONC CURB STAMPED "CITY OF RANCHO CUCAMONGA BM 10039 1987" AT NW CORNER OF FOOTHILL BLVD AND HAVEN AVE, 1' NORTH OF BCR AT S'LY END OF CATCH BASIN. ELEV = 1208.173'.

CITY OF RANCHO CUCAMONGA
9/11 MEMORIAL PARK
TERRA VISTA AVENUE
CONSTRUCTION DETAILS

SHEET NO. 5 OF 13 SHEETS
DWG. NO. 3078

NOTE: SOIL MEDIA SHALL BE WETTED IN 12 INCH LIFTS DURING PLACEMENT TO PRE-CONSOLIDATE THE MATERIAL. MECHANICAL COMPACTION IS NOT ALLOWED UNLESS NOTED OTHERWISE.

01 OVERFLOW DRAIN OUTLET PER PLAN.

02 UNDISTURBED UNCOMPACTED NATIVE SUBGRADE PER GEOTECHNICAL ENGINEER.

03 SOIL SEPARATOR FABRIC 'MIRAFI' 140N OR EQUIVALENT.

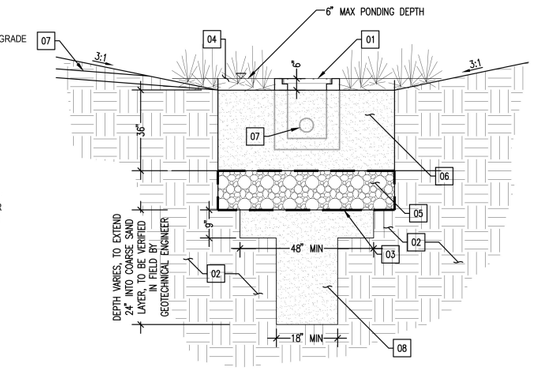
04 PLANT MATERIAL PER PLANTING PLAN.

05 3/4" OR 1" ANGULAR CRUSHED ROCK.
DEPTH SHALL BE AS FOLLOWS:
BASIN 1 0"
BASIN 2 12"

06 ENGINEERED SOIL MEDIA PER TABLE 5-4 OF THE TECHNICAL GUIDANCE DOCUMENT FOR WATER QUALITY MANAGEMENT PLANS FOR SAN BERNARDINO COUNTY

07 PVC PIPE PER PLAN.

08 TRENCH TO BE CLEAN WASHED SAND, CONFORMING TO ASTM C33 FINE AGGREGATES, WITH MAXIMUM 2% FINES BEFORE TRANSPORT, OR AS APPROVED IN FIELD BY GEOTECHNICAL ENGINEER.



BIORETENTION BASIN WITHOUT UNDERDRAIN — NTS — 05

01 FINISHED SURFACE

02 FLOW LINE PER PLAN

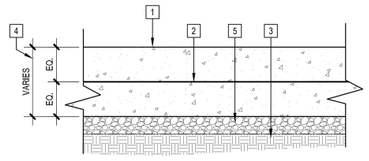
03 #3 REBAR @ 18" OC

04 (3) #3 REBAR CONTINUOUS TYP

05 PAVING SECTION PER PLAN

06 1:8 BATTER

VALLEY GUTTER — NTS — 07



1 FINISH & COLOR PER LANDSCAPE PLANS.

2 #4 REBAR @ 18" O.C. BOTH WAYS

3 SUBGRADE COMPACTION AND OVER EXCAVATION PER GEOTECHNICAL REPORT

4 PEDESTRIAN: 6" THICK

5 4" AGGREGATE BASE (CLASS 2)

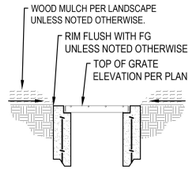
NOTES:
A. SAWCUT JOINTS, EXPANSION JOINTS AND THICKENED EDGE DETAILS PER LANDSCAPE PLANS.
B. PROVIDE DOWELS WHERE NEW CONCRETE TIES INTO EXISTING PER LANDSCAPE PLANS.
C. DO NOT ALLOW CONCRETE OVER-POUR INTO ADJACENT PLANTERS.
D. CONCRETE STRENGTH = 3,000 PSI

CONCRETE PAVING — NTS — -

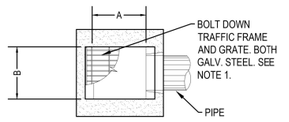
OLDCASTLE PRECAST OR EQUIVALENT STORM DRAIN CATCH BASIN TABLE

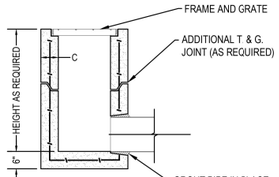
MODEL No.	A		B		C	
	IN	MM	IN	MM	IN	MM
1212CB	12	300	12	300	4	100
1818CB	18	450	18	450	5	125

NOTES:
1. FRAMES AND GRATES MAY BE SPECIFIED FOR PEDESTRIAN OR H20 TRAFFIC LOADING. ALL GRATES ARE BICYCLE PROOF.
2. ½" MAX. GRATE OPENINGS IN PATH-OF-TRAVEL IN ALL DIRECTIONS WHERE PATH-OF-TRAVEL IS MULTI-DIRECTIONAL.

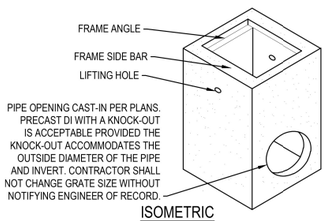


PLAN



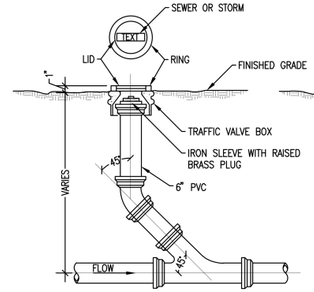


TYPICAL SECTION

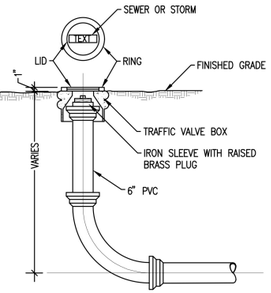


ISOMETRIC

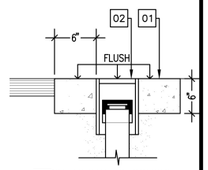
DRAIN INLET — NTS — 04



LINE CLEANOUT



TERMINAL CLEANOUT

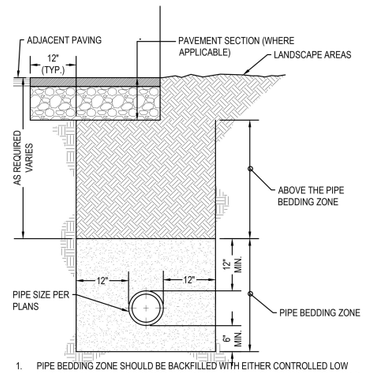


01 IN ASPHALTIC CONCRETE AND LANDSCAPE AREAS, PROVIDE 6" WIDE, 6" DEEP CONCRETE COLLAR, CONCRETE PAD NOT REQUIRED IN CONCRETE PAVED AREAS

02 COVER TO BE STAMPED PER UTILITY.

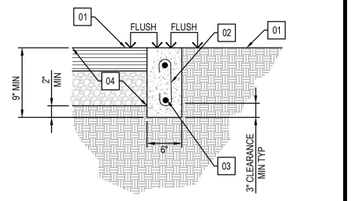
CLEANOUT COLLAR

CLEANOUT DETAIL — NTS — 01



1. PIPE BEDDING ZONE SHOULD BE BACKFILLED WITH EITHER CONTROLLED LOW STRENGTH MATERIAL (CLSM) CONSISTING OF AT LEAST ONE SACK OF PORTLAND CEMENT PER CY OF SAND OR IMPORTED CLEAN/UNIFORM SAND WITH SAND EQUIVALENT (SE) GREATER THAN OR EQUAL TO 30. CLSM SHOULD NOT BE JETTED BUT SAND SHOULD BE FLOODED AND JETTED.
2. ABOVE THE PIPE BEDDING ZONE SHOULD BE BACKFILLED WITH EXCAVATED ONSITE SOILS FREE OF DEBRIS, ORGANIC AND OVERSIZED MATERIAL GREATER THAN 3 INCHES IN LARGEST DIMENSION. THE WHOLE TRENCH CAN ALSO BE BACKFILLED WITH ONE-SACK CLSM AS PRESENTED IN NOTE NO. 1 FOR THE PIPE BEDDING ZONE UNDER THE PAVEMENT. NATIVE SOIL BACKFILL SHOULD BE COMPACTED TO A MINIMUM OF 90% RELATIVE COMPACTION AS DETERMINED BY ASTM D1557.

PIPE TRENCH — NTS — 03



01 FINISHED SURFACE / FINISHED GRADE

02 #3 REBAR @ 36" OC

03 (2) #4 REBAR CONTINUOUS (TYP)

04 PAVEMENT SECTION (3" AC OVER 4" AB) PER PLAN

FLUSH CURB — NTS — 02

DATE	SUBMITTAL

DIG ALERT
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

DATE	BY	MARK	REVISIONS	APPR.	DATE
ENGINEER				CITY	

DESIGNED BY: AT DRAWN BY: AT CHECKED BY: KS

SEAL
REGISTERED PROFESSIONAL ENGINEER
KATHEREEN M. SHINKAI
R.C.E. 68369
EXP. 9/30/25
CIVIL
STATE OF CALIFORNIA

APPROVED BY: DATE 06/24/2024
ACTING CITY ENGINEER
STEVE R. LORISO RCE: 64701

PREPARED BY: DATE 04/24/2024
KATHEREEN M. SHINKAI
CIVIL ENGINEER
R.C.E. NO. 68369 EXP. DATE 09/30/2025

LPA
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue, Suite 100
Irvine, California 92617
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350
DESIGN-BUILD TEAM

SCALE: NO SCALE
DATE 04/24/2024

BENCHMARK: ELEVATIONS SHOWN HEREON ARE BASED ON THE CITY OF RANCHO CUCAMONGA BENCH MARK "10039', BEING A 2" BRASS DISC IN CONC CURB STAMPED "CITY OF RANCHO CUCAMONGA BM 10039 1987" AT NW CORNER OF FOOTHILL BLVD AND HAVEN AVE, 1' NORTH OF BCR AT S'LY END OF CATCH BASIN. ELEV = 1208.173'.

CITY OF RANCHO CUCAMONGA
9/11 MEMORIAL PARK
TERRA VISTA AVENUE
CONSTRUCTION DETAILS

SHEET NO. 6 OF 13 SHEETS
DWG. NO. 3078

NOTES TO CONTRACTOR:

1. ELEVATIONS SHOWN ON PLAN ARE TRUNCATED VALUES. ADD 1200 TO THE ELEVATIONS SHOWN FOR CONSTRUCTION STAKING BASED ON THE PROJECT BENCHMARK.
2. UTILITIES TO CROSS OVER OR UNDER OTHER UTILITIES TO MAINTAIN 12" MINIMUM CLEARANCE AT UTILITY CROSSINGS, UNLESS NOTED OTHERWISE.
3. CONTRACTOR SHALL VERIFY SIZE AND LOCATION (HORIZONTAL AND VERTICAL) OF EXISTING CROSSING AND JOINING UTILITIES PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICT.
4. CONTRACTOR SHALL CONSTRUCT GRAVITY UTILITIES (SEWER AND STORM DRAIN) BEFORE OTHER UTILITIES. CONSTRUCTION OF THESE GRAVITY UTILITIES TC START FROM THE DOWNSTREAM ENDS.
5. EXISTING UTILITIES ARE COMPILED BASED ON PREVIOUS BASE FILES, FIELD SURVEY AND FIELD VERIFICATION. POTHOLING IS RECOMMENDED TO VERIFY ANY AND ALL UTILITIES KNOWN OR UNKNOWN WHICH MAY BE IN CONFLICT WITH PROPOSED CONSTRUCTION.
6. PRIOR TO THE REMOVAL OF ANY WET OR DRY UTILITY LINES, THE CONTRACTOR SHALL CONFIRM WITH OWNER REPRESENTATIVE WHETHER THESE UTILITY LINES ARE STILL ACTIVE OR NOT. IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICT.
7. CONTRACTOR TO ADJUST TO FINISHED GRADE ALL EXISTING UTILITY BOXES, STORM DRAIN CLEANOUT COVERS, PULL BOXES AND VALVE COVERS NOT SPECIFICALLY SHOWN WITHIN THE LIMITS OF WORK.
8. SEE DETAIL 03 SHEET 6 FOR UTILITY TRENCHING AND BACKFILL.
9. SAWCUT, REMOVE AND REPLACE EXISTING CURB AS REQUIRED FOR TRENCHING. MATCH EXISTING CURB.
10. ALL PRECAST DRAIN INLETS TO HAVE AN APPROVED "NO DUMPING THIS DRAINS TO RIVER" 3" X 5½" ROUNDED CORNERED RECTANGLES STYLE #NDO OR 4" DIAMETER ROUND STYLE #SDO ABRASION AND UV RESISTANT DURACAST STYLE MARKER BY DAS MANUFACTURING OR EQUIVALENT APPLIED TO THE CONCRETE COLLAR AROUND DRAIN INLET USING RAPID SET URETHANE ADHESIVE OR QUICKSTIK EPOXY PUTTY ADHESIVE PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS. http://www.dasmanufacturing.com/product_guide.html

STORM DRAIN CONSTRUCTION NOTES

(30) INSTALL PVC SDR 35 (ASTM 3034). SIZE AS SHOWN. TRENCH BEDDING AND BACKFILL PER DETAIL 03 SHEET 6.

(31) INSTALL 12"X12" PRECAST CONCRETE DRAIN INLET PER DETAIL 04 SHEET 6. INSTALL STORM DRAIN SIGNAGE PER DETAIL 02 SHEET 12.

(32) INSTALL 18"X18" PRECAST CONCRETE DRAIN INLET PER DETAIL 04 SHEET 6. INSTALL STORM DRAIN SIGNAGE PER DETAIL 02 SHEET 12.

(33) INSTALL NYOPLAST 30" DRAIN BASIN WITH SOLID COVER PER DETAIL 09 SHEET 5.

(34) INSTALL DROP INLET FILTER (OLDCASTLE FLOGARD CATCH BASIN INSERT FILTER OR APPROVED EQUAL).

(35) INSTALL STORM DRAIN CLEANOUT PER DETAIL 01 SHEET 6.

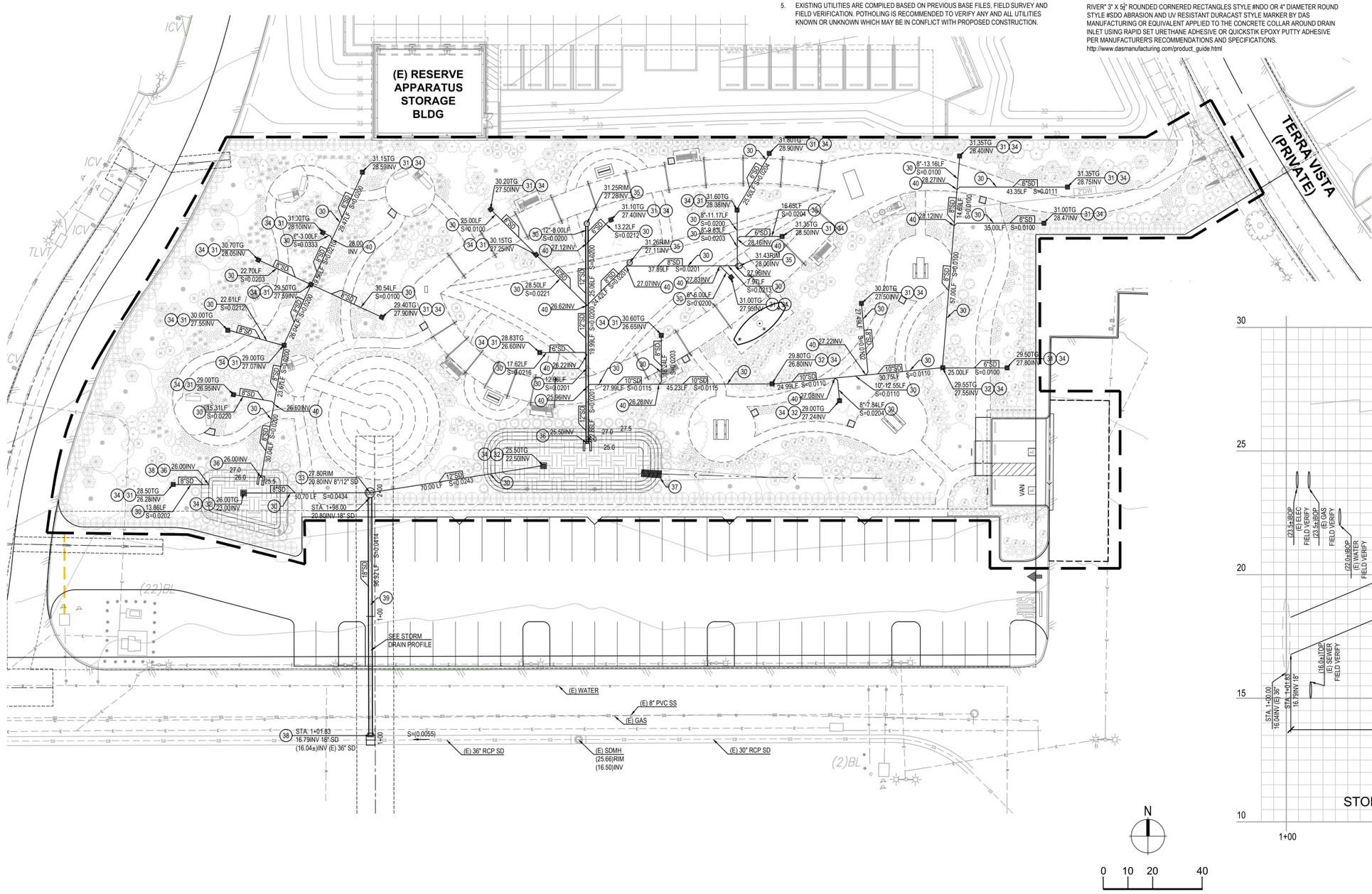
(36) CONSTRUCT HEADWALL PER SAN BERNARDINO COUNTY STANDARD PLAN 209A (MODIFIED, L=3').

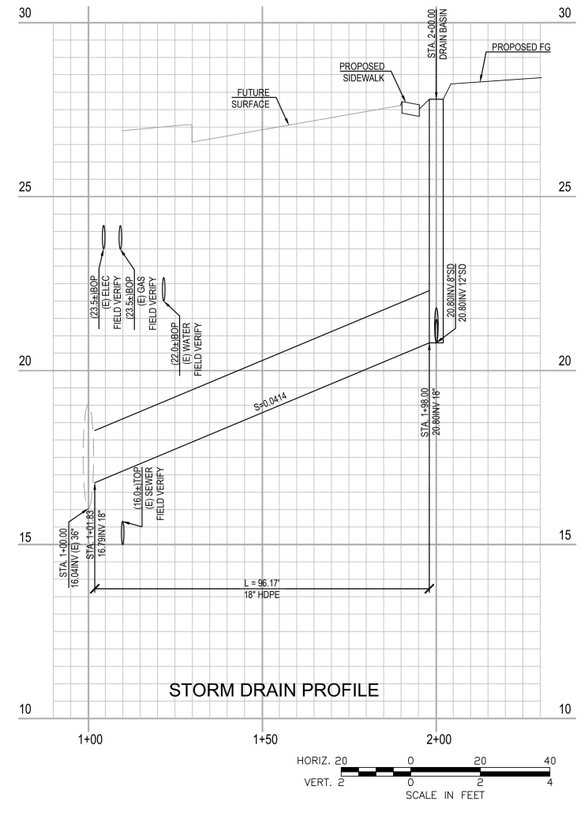
(37) CONSTRUCT GROUTED RIP-RAP (AVERAGE ROCK SIZE 8"-12"± WITH NO ROCKS SMALLER THAN 8" IN ANY GIVEN DIRECTION) AT END OF SWALE. 3' WIDE X 2' THICK FROM TOP OF SLOPE TO BOTTOM OF SLOPE.

(38) CONSTRUCT JUNCTION STRUCTURE NO. 2 FOR PIPE CONNECTION TO EXISTING STORM DRAIN PER CITY OF RANCHO CUCAMONGA STANDARD PLAN NO. 331. A = 90°, B = 18", C = 12", D = 36".

(39) INSTALL HDPE STORM DRAIN PIPE. SIZE AS SHOWN. TRENCH BEDDING AND BACKFILL PER DETAIL 03 SHEET 6.

(40) INSTALL TEE, REDUCING TEE, WYE, OR REDUCING WYE, SIZE TO MATCH ADJACENT PIPE SIZES.





DIG ALERT
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

DATE	SUBMITTAL

DATE	BY	MARK	REVISIONS	APPR.	DATE
				CITY	

DESIGNED BY: AT DRAWN BY: AT CHECKED BY: KS

SEAL

REGISTERED PROFESSIONAL ENGINEER KATHEREEN M. SHINKAI R.C.E. 68369 EXP. 9-30-25 CIVIL STATE OF CALIFORNIA

APPROVED BY: DATE 06/24/2024
STEVE R. LORISO ACTING CITY ENGINEER RCE: 64701

PREPARED BY: DATE 04/24/2024
KATHEREEN M. SHINKAI CIVIL ENGINEER
R.C.E. NO. 68369 EXP. DATE 09/30/2025

SCALE: 1"=20'
DATE 04/24/2024

BENCHMARK: ELEVATIONS SHOWN HEREON ARE BASED ON THE CITY OF RANCHO CUCAMONGA BENCH MARK "10039", BEING A 2" BRASS DISC IN CONC CURB STAMPED "CITY OF RANCHO CUCAMONGA BM 10039 1987" AT NW CORNER OF FOOTHILL BLVD AND HAVEN AVE, 1' NORTH OF BCR AT S'LY END OF CATCH BASIN. ELEV = 1208.173'.

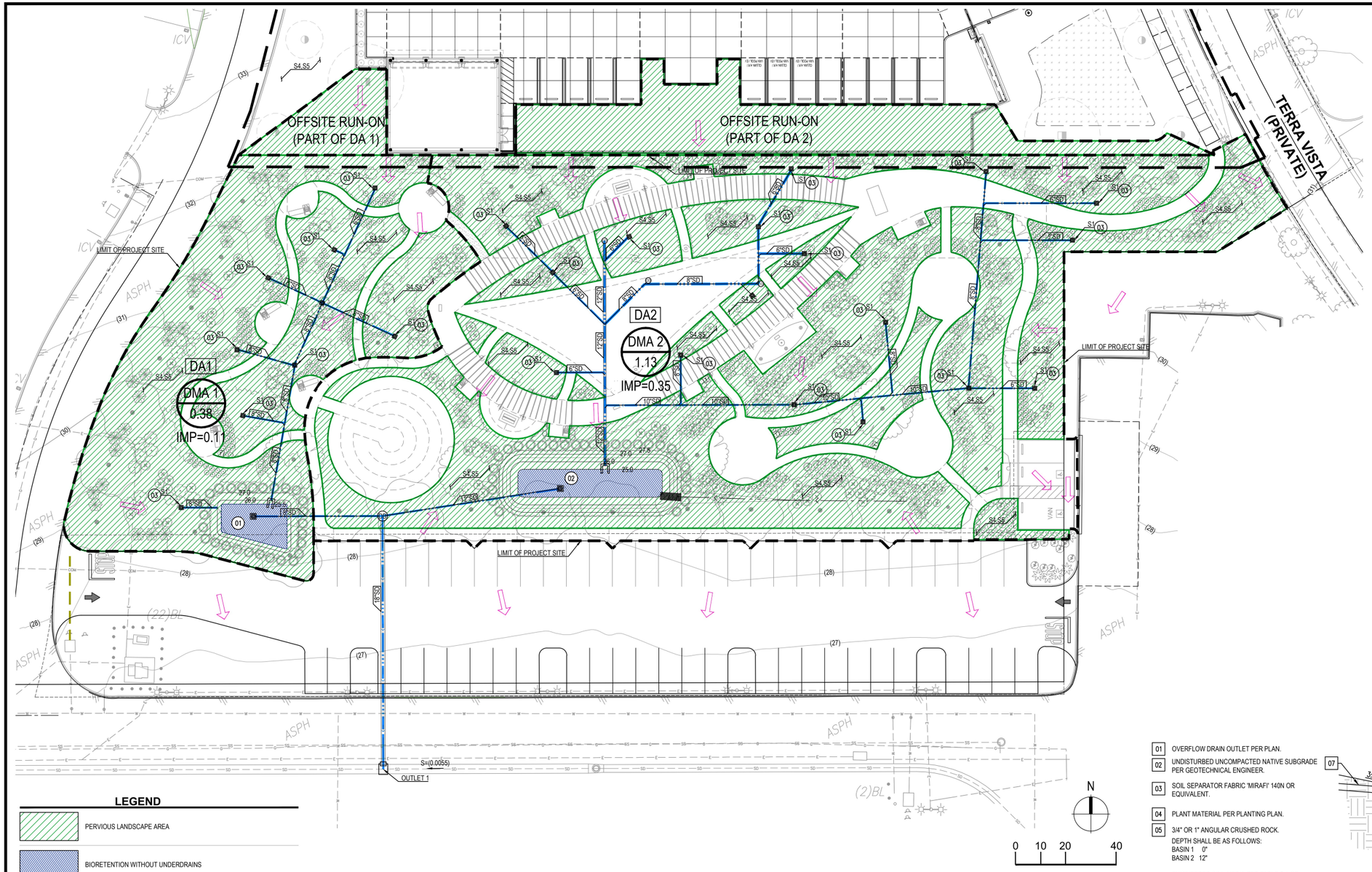
949-261-1001 Office
949-260-1190 Fax
5301 California Avenue, Suite 100
Irvine, California 92617

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

DESIGN-BUILD TEAM

CITY OF RANCHO CUCAMONGA
9/11 MEMORIAL PARK
TERRA VISTA AVENUE
STORM DRAIN PLAN

SHEET NO. 7 OF 13 SHEETS
DWG. NO. 3078



LEGEND

- PERVIOUS LANDSCAPE AREA
- BIORETENTION WITHOUT UNDERDRAINS
- SURFACE FLOW DIRECTION
- STORM DRAIN FLOW DIRECTION
- LIMIT OF WORK / DELINEATION BETWEEN DRAINAGE AREAS
- DA3 — DRAINAGE AREA
- DMA / X.XX — DRAINAGE MANAGEMENT AREA / AREA (ACRES)
- IMP=0.XX — IMPERVIOUS RATIO

STRUCTURAL BMPs

01	BMP 1 - BIORETENTION WITHOUT UNDERDRAINS PER DETAIL 01 375 SF, 0.5' PONDING
02	BMP 2 - BIO RETENTION WITHOUT UNDERDRAINS PER DETAIL 01 623 SF, 0.5' PONDING
03	DROP INLET FILTER FOR FULL TRASH CAPTURE

NON-STRUCTURAL BMPs AND MAINTENANCE SCHEDULE

BMP NAME		INSPECTION FREQUENCY
N1	EDUCATION OF PROPERTY OWNERS, TENANTS AND OCCUPANTS ON STORMWATER BMPS	ONGOING
N2	ACTIVITY RESTRICTIONS	MONTHLY
N3	LANDSCAPE MANAGEMENT BMPS	YEARLY
N4	BMP MAINTENANCE	WEEKLY
N5	TITLE 22 CCR COMPLIANCE	ONGOING
N6	LOCAL WATER QUALITY ORDINANCES	ONGOING
N7	SPILL CONTINGENCY PLAN	ONGOING
N9	HAZARDOUS MATERIAL DISCLOSURE COMPLIANCE	ONGOING
N10	UNIFORM FIRE CODE	ONGOING
N11	LITTER/DEBRIS CONTROL PROGRAM	WEEKLY
N12	EMPLOYEE TRAINING	YEARLY FOR ALL EMPLOYEES WITHIN 6 MONTHS HIRE DATE FOR NEW EMPLOYEES
N14	CATCH BASIN INSPECTION PROGRAM	MINIMUM ONCE PER YEAR PRIOR TO RAINY SEASON
N15	VACUUM SWEEPING OF PRIVATE STREETS AND PARKING LOTS	MONTHLY
N16	OTHER NON-STRUCTURAL MEASURES FOR PUBLIC AGENCY PROJECTS	ONGOING
N17	COMPLY WITH ALL OTHER APPLICABLE NPDES PERMITS	ONGOING

STRUCTURAL SOURCE CONTROL BMPS AND MAINTENANCE SCHEDULE

BMP NAME		INSPECTION FREQUENCY
S1	STORM DRAIN STENCILING AND SIGNAGE	YEARLY
S4	EFFICIENT IRRIGATION SYSTEMS & LANDSCAPE DESIGN, WATER CONSERVATION, SMART CONTROLLERS, SOURCE CONTROL	MONTHLY
S5	FINISH GRADE OF LANDSCAPED AREAS AT A MINIMUM OF 1-2 INCHES BELOW TOP OF CURB, SIDEWALK OR PAVEMENT	WEEKLY

WQMP BMP AS-BUILT CERTIFICATE

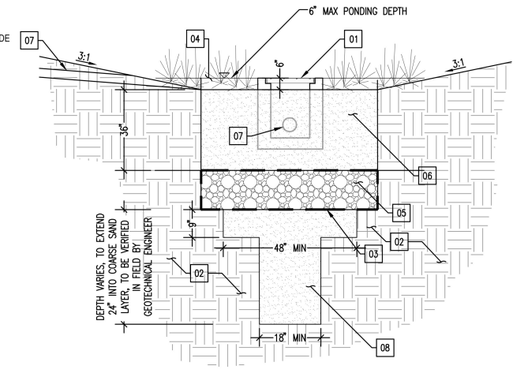
I HEREBY CERTIFY THAT THE NECESSARY WATER QUALITY MANAGEMENT PLAN STORM WATER STRUCTURAL TREATMENT (BEST MANAGEMENT PRACTICE) DEVICES HAVE BEEN CONSTRUCTED UNDER MY SUPERVISION AND ARE FUNCTIONAL TO THE BEST OF MY KNOWLEDGE AS OF THE DATE BELOW.

SIGNATURE _____ DATE _____

WET SEAL

NOTE: SOIL MEDIA SHALL BE WETTED IN 12 INCH LIFTS DURING PLACEMENT TO PRE-CONSOLIDATE THE MATERIAL. MECHANICAL COMPACTION IS NOT ALLOWED UNLESS NOTED OTHERWISE.

01	OVERFLOW DRAIN OUTLET PER PLAN.
02	UNDISTURBED UNCOMPACTED NATIVE SUBGRADE PER GEOTECHNICAL ENGINEER.
03	SOIL SEPARATOR FABRIC 'MIRAFI' 140N OR EQUIVALENT.
04	PLANT MATERIAL PER PLANTING PLAN.
05	3/4" OR 1" ANGULAR CRUSHED ROCK. DEPTH SHALL BE AS FOLLOWS: BASIN 1 0" BASIN 2 12"
06	ENGINEERED SOIL MEDIA PER TABLE 5-4 OF THE TECHNICAL GUIDANCE DOCUMENT FOR WATER QUALITY MANAGEMENT PLANS FOR SAN BERNARDINO COUNTY
07	PVC PIPE PER PLAN.
08	TRENCH TO BE CLEAN WASHED SAND, CONFORMING TO ASTM C33 FINE AGGREGATES, WITH MAXIMUM 2% FINES BEFORE TRANSPORT, OR AS APPROVED IN FIELD BY GEOTECHNICAL ENGINEER.



BIORETENTION BASIN WITHOUT UNDERDRAIN — NTS — 01

DIG ALERT
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

DATE	SUBMITTAL

DATE	BY	MARK	REVISIONS	APPR.	DATE
			ENGINEER	CITY	

DESIGNED BY: AT DRAWN BY: AT CHECKED BY: KS

SEAL — REGISTERED PROFESSIONAL ENGINEER — KATHEREEN M. SHINKAI — R.C.E. 68369 EXP. 9-30-25 — CIVIL — STATE OF CALIFORNIA

APPROVED BY: _____ DATE 06/24/2024
ACTING CITY ENGINEER
STEVE R. LORISO RCE: 64701

PREPARED BY: _____ DATE 04/24/2024
KATHEREEN M. SHINKAI
CIVIL ENGINEER
R.C.E. NO. 68369 EXP. DATE 09/30/2025

LPA
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue, Suite 100
Irvine, California 92617
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

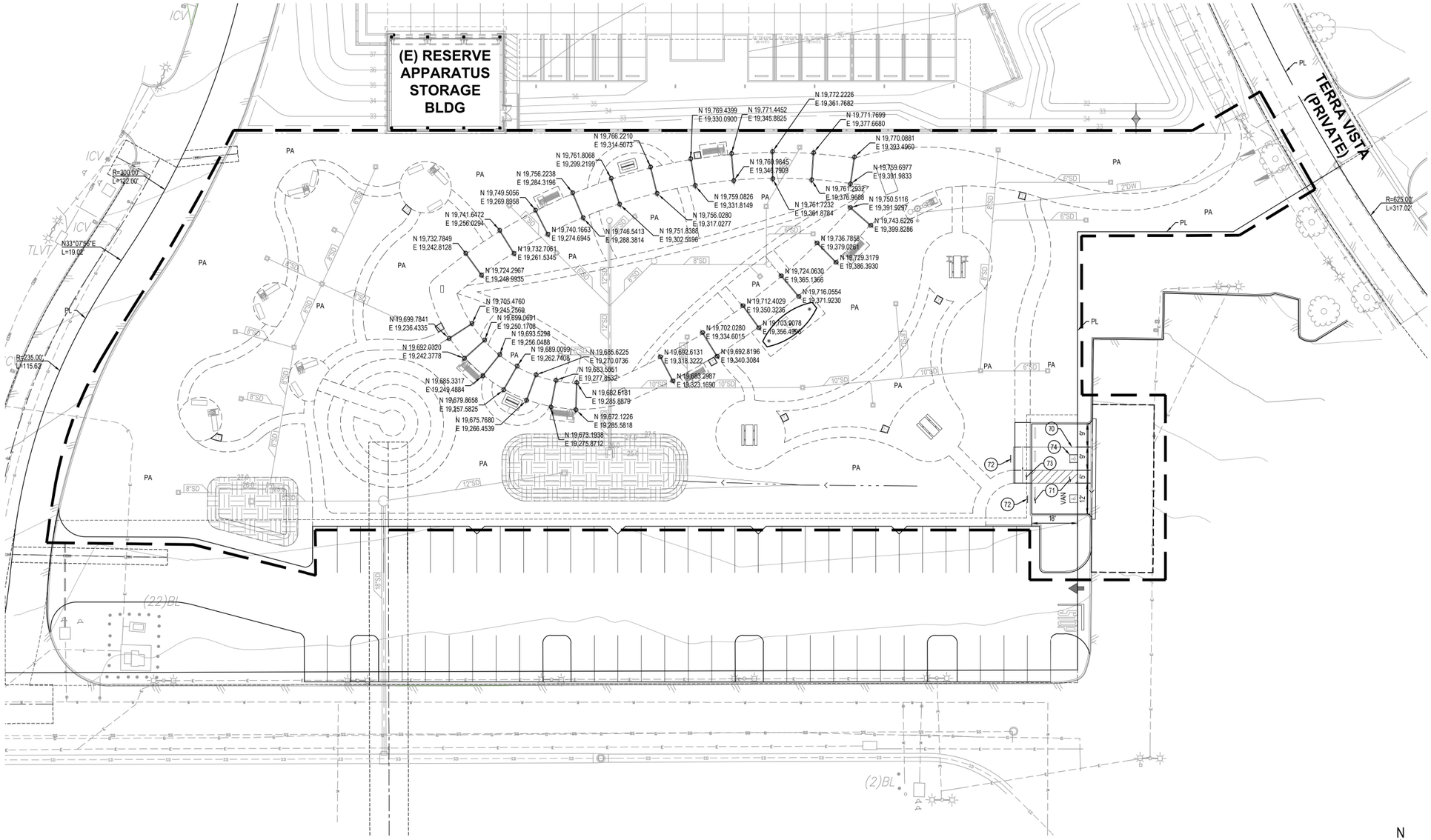
DESIGN-BUILD TEAM

SCALE:
DATE 04/24/2024

BENCHMARK: ELEVATIONS SHOWN HEREON ARE BASED ON THE CITY OF RANCHO CUCAMONGA BENCH MARK "10039", BEING A 2" BRASS DISC IN CONC CURB STAMPED "CITY OF RANCHO CUCAMONGA BM 10039 1987" AT NW CORNER OF FOOTHILL BLVD AND HAVEN AVE, 1' NORTH OF BCR AT S'LY END OF CATCH BASIN. ELEV = 1208.173'.

CITY OF RANCHO CUCAMONGA
9/11 MEMORIAL PARK
TERRA VISTA AVENUE
WATER QUALITY MANAGEMENT SITE & DRAINAGE PLAN

SHEET NO. 8 OF 13 SHEETS
DWG. NO. 3078



HORIZONTAL CONTROL NOTES:

THIS HORIZONTAL CONTROL PLAN ESTABLISHES THE FOLLOWING TO BE USED AS BASE CONTROL FOR CONSTRUCTION STAKING.

1. PRIOR TO STAKING ANY STRUCTURE, SURVEYOR SHALL VERIFY THAT THE GRIDS SHOWN ON THIS PLAN MATCHES THE ARCHITECTURAL & STRUCTURAL PLANS.
2. NORTHING AND EASTING COORDINATES ARE PROVIDED TO LOCATE THE CENTER OF THE LOWER CANOPY COLUMNS.
3. IF ANY DISCREPANCIES ARE FOUND DURING CONSTRUCTION STAKING NOTIFY CIVIL ENGINEER IMMEDIATELY.
4. SEE LANDSCAPE PLANS FOR DETAILED HARDSCAPE DIMENSIONS.
5. SEE LANDSCAPE PLANS FOR LOCATION AND TYPE OF CONCRETE WALKS AND HARDSCAPE INCLUDING DETAILS FOR CONCRETE FINISHES, CONTROL JOINTS AND EXPANSION JOINTS.
6. STRUCTURE DIMENSIONS SHOWN ARE APPROXIMATE AND FOR INFORMATION ONLY. REFER TO ARCHITECTURAL PLANS FOR EXACT DIMENSIONS.

BENCHMARK

ELEVATIONS SHOWN HEREON ARE BASED ON THE CITY OF RANCHO CUCAMONGA BENCH MARK "10039", BEING A 2" BRASS DISC IN CONCRETE CURB STAMPED "CITY OF RANCHO CUCAMONGA BM 10039 1987" AT NORTHWEST CORNER OF FOOTHILL BOULEVARD AND HAVEN AVENUE, 1 FOOT NORTH OF BCR AT SOUTHERLY END OF CATCH BASIN.

ELEVATION = 1208.173'

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS PROJECT IS THE CENTERLINE OF TOWN CENTER DRIVE, BEING N67°30'08"W AS SHOWN ON AMENDING PARCEL MAP NO. 11030, RECORDED IN P.M.B. 145/34-39, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA.

CONSTRUCTION NOTES:

KEY NOTE	DESCRIPTION
70	PAINT 4" WIDE WHITE PARKING STALL STRIPING PER DETAIL 05 SHEET 5.
71	PAINT ACCESSIBLE PARKING STALL PER DETAIL 03 SHEET 5.
72	INSTALL ACCESSIBLE PARKING SIGN PER DETAIL 04 SHEET 5. PLACE SIGN PER PLAN.
73	INSTALL TRUNCATED DOME PAVER PER DETAIL 08 SHEET 5.
74	PAINT ACCESSIBLE PARKING EMBLEM PER DETAIL 02 SHEET 5.

N

0 10 20 40

DATE	SUBMITTAL

DIG ALERT
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

DATE	BY	MARK	REVISIONS	APPR.	DATE
				CITY	

DESIGNED BY: AT DRAWN BY: AT CHECKED BY: KS

SEAL
REGISTERED PROFESSIONAL ENGINEER
KATHEREEN M. SHINKAI
R.C.E. 68369
EXP. 9-30-25
CIVIL
STATE OF CALIFORNIA

APPROVED BY: DATE 06/24/2024
ACTING CITY ENGINEER
STEVE R. LORISO RCE: 64701

PREPARED BY: DATE 04/24/2024
KATHEREEN M. SHINKAI
CIVIL ENGINEER
R.C.E. NO. 68369 EXP. DATE 09/30/2025

LPA
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue, Suite 100
Irvine, California 92617
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING

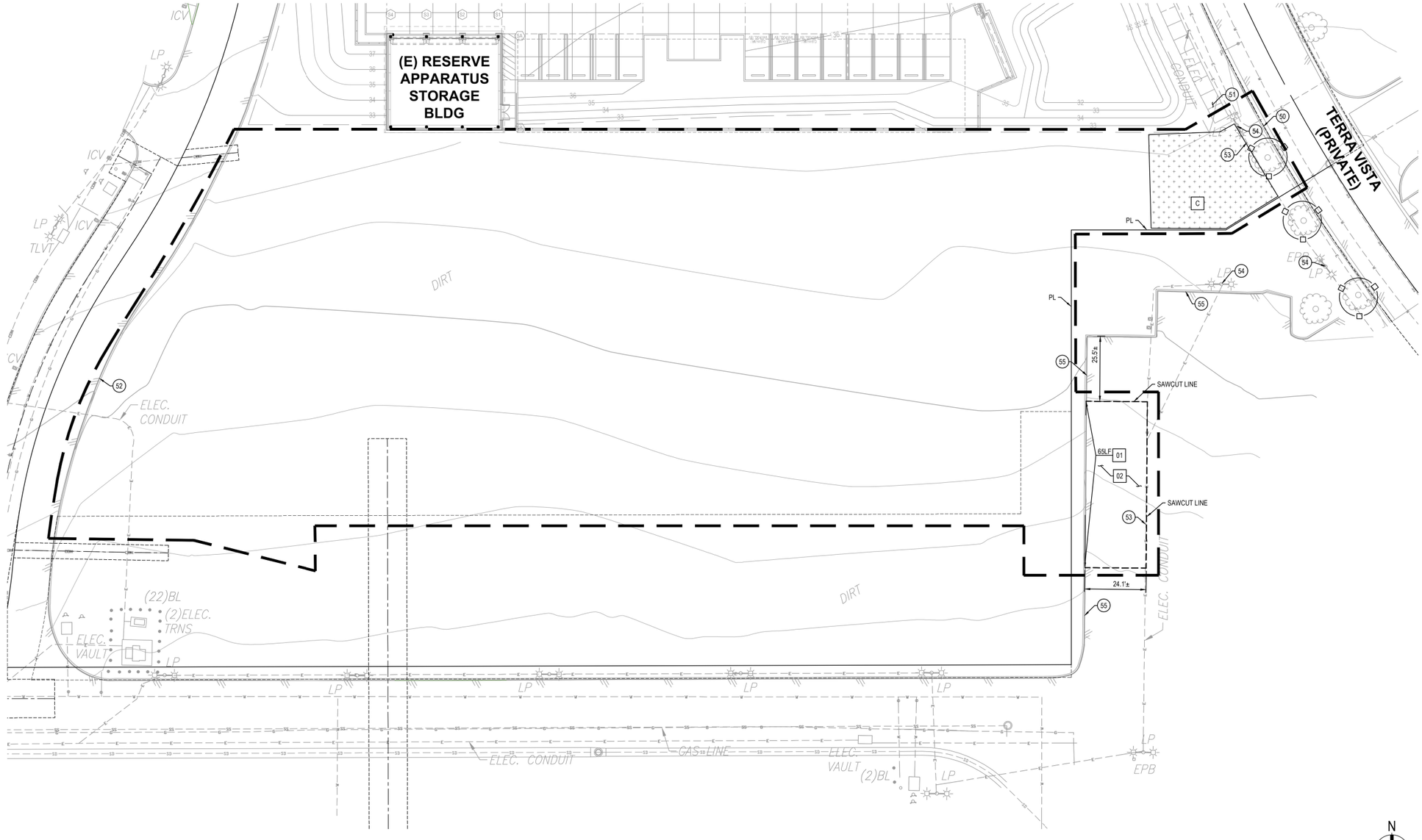
AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350
DESIGN-BUILD TEAM

SCALE: 1"=20'
DATE 04/24/2024

BENCHMARK: ELEVATIONS SHOWN HEREON ARE BASED ON THE CITY OF RANCHO CUCAMONGA BENCH MARK "10039", BEING A 2" BRASS DISC IN CONC CURB STAMPED "CITY OF RANCHO CUCAMONGA BM 10039 1987" AT NW CORNER OF FOOTHILL BLVD AND HAVEN AVE, 1' NORTH OF BCR AT S'LY END OF CATCH BASIN. ELEV = 1208.173'.

CITY OF RANCHO CUCAMONGA
9/11 MEMORIAL PARK
TERRA VISTA AVENUE
HORIZONTAL CONTROL AND STRIPING PLAN

SHEET NO. **9** OF 13 SHEETS
DWG. NO. **3078**



DEMOLITION NOTES

-SEE DEMOLITION NOTES, SHEET 2.

DEMOLITION LEGEND

LABEL	DESCRIPTION
C	REMOVE (E) LANDSCAPING. SEE LANDSCAPE AND IRRIGATION PLANS FOR IMPROVEMENTS.
	(E) TREE TO REMAIN AND BE PROTECTED. SEE DEMOLITION NOTE 5 SHEET 2.
	APPROXIMATE LIMIT OF WORK.

PROTECTION KEYNOTES

KEY NOTE	DESCRIPTION
50	PROTECT (E) CONCRETE CURB AND GUTTER.
51	PROTECT (E) CONCRETE SIDEWALK.
52	PROTECT (E) CONCRETE CURB.
53	PROTECT (E) ELECTRICAL FACILITIES.
54	PROTECT (E) STREET LIGHT STANDARD.
55	PROTECT (E) AC CURB.

DEMOLITION KEYNOTES

KEY NOTE	DESCRIPTION
01	REMOVE (E) AC CURB.
02	GRIND (E) AC PAVING.

N

0 10 20 40

DATE	SUBMITTAL

DIG ALERT
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

DATE	BY	MARK	REVISIONS	APPR.	DATE

ENGINEER | CITY

DESIGNED BY: AT DRAWN BY: AT CHECKED BY: KS

SEAL
REGISTERED PROFESSIONAL ENGINEER
KATHEREEN M. SHINKAI
R.C.E. 68369
EXP. 9-30-25
CIVIL
STATE OF CALIFORNIA

APPROVED BY: DATE 06/24/2024
ACTING CITY ENGINEER
STEVE R. LORISO RCE: 64701

PREPARED BY: DATE 04/24/2024
KATHEREEN M. SHINKAI
CIVIL ENGINEER
R.C.E. NO. 68369 EXP. DATE 09/30/2025

SCALE: 1"=20'
DATE 04/24/2024

BENCHMARK: ELEVATIONS SHOWN HEREON ARE BASED ON THE CITY OF RANCHO CUCAMONGA BENCH MARK "10039", BEING A 2" BRASS DISC IN CONC CURB STAMPED "CITY OF RANCHO CUCAMONGA BM 10039 1987" AT NW CORNER OF FOOTHILL BLVD AND HAVEN AVE, 1' NORTH OF BCR AT S'LY END OF CATCH BASIN. ELEV = 1208.173'.

949-261-1001 Office
949-260-1190 Fax
5301 California Avenue, Suite 100
Irvine, California 92617

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

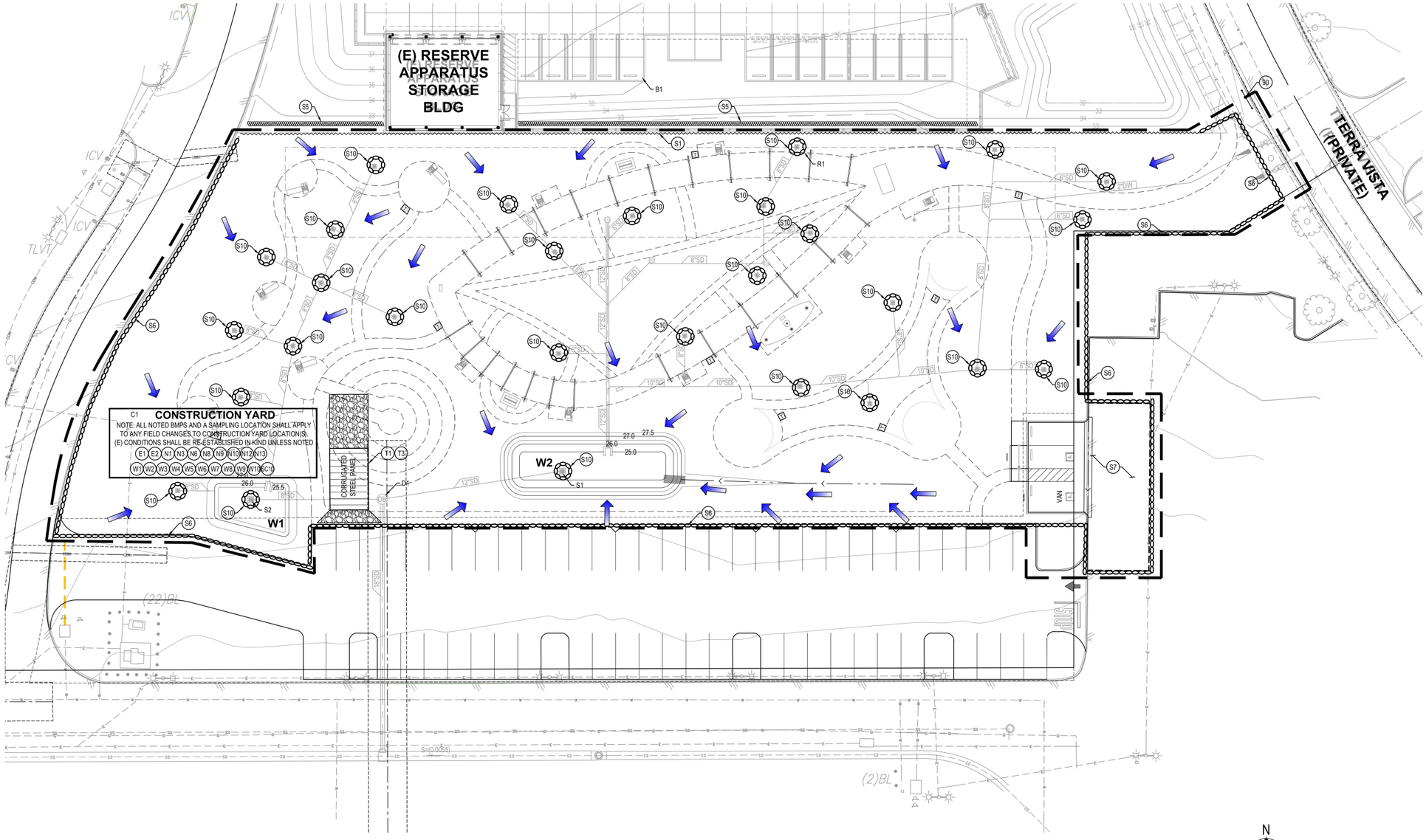
DESIGN-BUILD TEAM

CITY OF RANCHO CUCAMONGA
9/11 MEMORIAL PARK
TERRA VISTA AVENUE
DEMOLITION PLAN

SHEET NO. **10** OF 13 SHEETS
DWG. NO. **3078**

DUST CONTROL SIGNAGE:

90	INSTALL DUST CONTROL SIGN PER ATTACHMENT 8 SHEET 12.



EROSION CONTROL NOTES

-SEE SHEET 13 FOR EROSION AND SEDIMENT CONTROL NOTES.

-SEE SHEET 13 FOR BMP MAINTENANCE NOTES.

-ALL BMPS PER CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA)(UNLESS NOTED OTHERWISE) AND ARE AVAILABLE AT www.casqa.org.

-BMPS "NOT" CALLED OUT PER PLAN, ARE SHOWN FOR REFERENCE AS BMP OPTIONS PER QSP (QUALIFIED SWPPP PRACTITIONER) FIELD RECOMMENDATIONS.

-AT THE COMPLETION OF PROJECT, CONTRACTOR SHALL REMOVE ALL CONSTRUCTION BMPS FROM SITE AND DISPOSE IN A LEGAL MANNER.

LEGEND

SYMBOL	DESCRIPTION
	GRAVEL BAGS AND/OR SANDBAGS PER BMP KEYNOTES
	SILT FENCE
	FLOW DIRECTION
	APPROXIMATE LIMIT OF GRADING

EROSION CONTROL BMPs:

KEY NOTE	DESCRIPTION
E1	EC-1, SCHEDULING
E2	EC-2, PRESERVATION OF EXISTING VEGETATION

SEDIMENT CONTROL BMPs:

S1	SE-1, SILT FENCE
S5	SE-5, FIBER ROLLS
S6	SE-6, GRAVEL BAG BERM
S7	SE-7, STREET SWEEPING AND VACUUMING
S10	SE-10, STORM DRAIN INLET PROTECTION

TRACKING CONTROL BMPs:

T1	TC-1, STABILIZED CONSTRUCTION ENTRANCE/EXIT
T3	TC-3, ENTRANCE/OUTLET TIRE WASH

NON-STORMWATER MANAGEMENT CONTROL BMPs:

N1	NS-1, WATER CONSERVATION PRACTICES
N3	NS-3, PAVING AND GRINDING OPERATIONS
N6	NS-6, ILLICIT CONNECTION/DISCHARGE
N8	NS-8, VEHICLE AND EQUIPMENT CLEANING
N9	NS-9, VEHICLE AND EQUIPMENT FUELING
N10	NS-10, VEHICLE AND EQUIPMENT MAINTENANCE
N12	NS-12, CONCRETE CURING
N13	NS-13, CONCRETE FINISHING
SC10	SC-10, NON-STORMWATER DISCHARGES

WIND EROSION CONTROL BMPs:

WE	WE-1, WIND EROSION CONTROL

WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL BMPs:

W1	WM-1, MATERIAL DELIVERY AND STORAGE
W2	WM-2, MATERIAL USE
W3	WM-3, STOCKPILE MANAGEMENT
W4	WM-4, SPILL PREVENTION AND CONTROL
W5	WM-5, SOLID WASTE MANAGEMENT
W6	WM-6, HAZARDOUS WASTE MANAGEMENT
W7	WM-7, CONTAMINATED SOIL MANAGEMENT
W8	WM-8, CONCRETE WASTE MANAGEMENT
W9	WM-9, SANITARY/SEPTIC WASTE MANAGEMENT
W10	WM-10, LIQUID WASTE MANAGEMENT

STORM WATER STORAGE OR CONTAINMENT

W#	STORMWATER STORAGE (E.G. BIORETENTION) OR CONTAINMENT (E.G. CISTERN)

DISCHARGE LOCATIONS

D#	DISCHARGE LOCATION

SAMPLING LOCATIONS

B#	POLLUTANT SAMPLE LOCATION - BACKGROUND SAMPLE
C#	POLLUTANT SAMPLE LOCATION - CONTRACTORS YARD
S#	POLLUTANT SAMPLE LOCATION - SITE

NOTE:
THE SAMPLE LOCATIONS SHOWN ARE THE MINIMUM REQUIREMENT FOR THE PROJECT SITE AND RISK LEVEL 1. SAMPLE LOCATIONS MAY BE RELOCATED IF FIELD CONDITIONS WILL NOT ALLOW FOR SATISFACTORY SAMPLING. ANY ADJUSTMENTS TO SAMPLING LOCATIONS MUST MEET THE INTENDED PURPOSE ORIGINALLY DESIGNATED FOR THAT LOCATION AND MUST BE DOCUMENTED WITH A SWPPP AMENDMENT FORM.

DATE	SUBMITTAL

DIG ALERT
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

DATE	BY	MARK	APPR.	DATE

ENGINEER — REVISIONS — CITY

DESIGNED BY: AT DRAWN BY: AT CHECKED BY: KS

SEAL
REGISTERED PROFESSIONAL ENGINEER
KATHEREEN M. SHINKAI
R.C.E. 68369
EXP. 9-30-25
CIVIL
STATE OF CALIFORNIA

APPROVED BY: DATE 06/24/2024
ACTING CITY ENGINEER
STEVE R. LORISO RCE: 64701

PREPARED BY: DATE 04/24/2024
KATHEREEN M. SHINKAI
CIVIL ENGINEER
R.C.E. NO. 68369 EXP. DATE 09/30/2025

SCALE: 1"=20'
DATE 04/24/2024

949-261-1001 Office
949-260-1190 Fax
5301 California Avenue, Suite 100
Irvine, California 92617

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

DESIGN-BUILD TEAM

BENCHMARK: ELEVATIONS SHOWN HEREON ARE BASED ON THE CITY OF RANCHO CUCAMONGA BENCH MARK "10039", BEING A 2" BRASS DISC IN CONC CURB STAMPED "CITY OF RANCHO CUCAMONGA BM 10039 1987" AT NW CORNER OF FOOTHILL BLVD AND HAVEN AVE, 1' NORTH OF BCR AT S'LY END OF CATCH BASIN. ELEV = 1208.173'.

CITY OF RANCHO CUCAMONGA
9/11 MEMORIAL PARK
TERRA VISTA AVENUE
EROSION CONTROL PLAN

SHEET NO. **11** OF 13 SHEETS
DWG. NO. **3078**

EROSION CONTROL PLANS

A- GENERAL NOTES

1. EROSION CONTROL IS REQUIRED FOR GRADING OPERATIONS. DURING THE RAINY SEASON FROM OCTOBER 15TH TO APRIL 15TH. APPROVED PLANS ARE REQUIRED FOR ALL ROUGH GRADING AND PRECISE GRADING PERMITS.

2. IN CASE OF AN EMERGENCY, CALL:

RAYMOND WILLIAMS
(RESPONSIBLE PERSON) .

AMG ASSOCIATES INC.
(FIRM) ;

AT:

661-435-5160
(24-HOUR PHONE NO.) .

3. CLEARING AND GRUBBING SHALL BE LIMITED TO AREAS THAT WILL RECEIVE IMMEDIATE GRADING. EROSION CONTROL MEASURES WILL BE REQUIRED TO PROTECT AREAS WHICH HAVE BEEN CLEARED AND GRUBBED PRIOR TO GRADING OPERATION, AND WHICH ARE SUBJECT TO RUNOFF DURING THE RAINY SEASON. THESE MEASURES MAY INCLUDE BUT SHALL NOT BE LIMITED TO: GRADED DITCHES, BRUSH BARRIERS, AND SILT FENCES. CARE SHALL BE EXERCISED TO FRESERVE VEGETATION BEYOND LIMITS OF GRADING.

4. CITY APPROVAL OF PLANS DOES NOT RELIEVE THE DEVELOPER FROM RESPONSIBILITY FOR THE CORRECTION OF ERROR AND OMISSION DISCOVERED DURING CONSTRUCTION. THE REQUIRED PLAN REVISION SHALL BE PROMPTLY SUBMITTED TO THE CITY ENGINEER, OR DESIGNEE.

5. 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.

6. DEVICES SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE CITY ENGINEER.

7. ALL REMOVABLE PROTECTIVE DEVISES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE 5–DAY RAIN PROBABILITY FORECAST EXCEEDS 40%.

8. AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM CHECK BERMS, SILT FENCES, AND DE- SILTING BASIN, ETC.

9. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPE AT THE CONCLUSION OF EACH WORKING DAY.

10. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES A HAZARDOUS CONDITION.
11. DE–SILTING BASINS ARE TO BE CONSTRUCTED AS GRADING OF INDIVIDUAL GRADING AREAS ARE COMPLETE PER ROUGH GRADING PLANS.
12. THE CITY ENGINEER RESERVES THE RIGHT TO MAKE CHANGES OR MODIFICATIONS TO PLAN AS DEEMED NECESSARY.
13. INFORMATION ON THIS PLAN IS FOR EROSION CONTROL ONLY.
14. TEMPORARY EROSION PROTECTION IS REQUIRED FOR MANUFACTURED SLOPES PRIOR TO PERMANENT PLANTING.
15. AREAS SHALL BE MAINTAINED IN SUCH A STATE THAT FIRE ACCESS SHALL BE MAINTAINED AT ALL TIMES (INCLUDING ACCESS TO NEIGHBORHOOD PROPERTIES).
16. NO OBSTRUCTION OR DISTURBANCE OF NATURAL DRAINAGE COURSES OR EXISTING STORM DRAIN INLETS SI-ALL OCCUR DURING THE RAINY SEASON, UNLESS ADEQUATE TEMPORARY/PERMANENT DRAINAGE FACILITIES HAVE BEEN APPROVED AND INSTALLED.
17. THE CONTRACTOR SHALL CONDUCT THE OPERATION IN SUCH A MANNER THAT STORM RUNOFF WILL BE CONTAINED WITHIN THE PROJECT OR CHANNELED INTO THE STORM DRAIN SYSTEM WHICH SERVES THE RUNOFF AREA. STORM RUNOFF FROM ONE AREA SHALL NOT BE ALLOWED TO DIVERT TO ANOTHER RUNOFF AREA.
18. THE PERMITTEE SHALL PUT INTO EFFECT AND MAINTAIN ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT ADJACENT WATERCOURSES AND PUBLIC OR PRIVATE PROPERTY FROM DAMAGE BY EROSION, FLOODING, AND DEPOSITION OF MUD OR DEBRIS ORIGINATION FROM THE SITE DURING THE GRADING OPERATION.

19. CONFORMANCE WITH THE REQUIREMENTS OF THESE PLANS SHALL IN NO WAY RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TO THIS SITE AND ADJACENT PROPERTIES. TEMPORARY EROSION CONTROL SHALL CONSIST OF, BUT NOT BE LIMITED TO, CONSTRUCTION TO PREVENT, CONTROL AND ABATE WATER, MUD, DUST CONTROL, AND EROSION DAMAGE TO PUBLIC AND PRIVATE PROPERTY AS A RESULT OF THE CONSTRUCTION OF THE PROJECT.
20. SLOPES CONSTRUCTED PRIOR TO OCTOBER 1ST SHALL BE TREATED FOR EROSION CONTROL PRIOR TO OCTOBER 15. SLOPES CONSTRUCTED AFTER OCTOBER 15 SHALL BE TREATED FOR EROSION CONTROL AS THE CONSTRUCTION OF SLOPE PROGRESSES.
21. FILL AREAS WHILE BEING BROUGHT UP TO GRADE AND DURING PERIODS OF COMPLETION PRIOR TO FINALE GRADE. SHALL BE PROTECTED BY VARIOUS MEASURES TO ELIMINATE EROSION AND THE SILTATION OF DOWNSTREAM FACILITIES AND ADJACENT AREAS. THESE MEASURES MAY INCLUDE BUT SHALL NOT BE LIMITED TO: TEMPORARY DOWN DRAINS, EITHER N THE FORM OF PIPES OR PAVED DITCHES WITH PROTECTED OUTFALL AREAS; GRADED BERMS AROUND AREAS TO ELIMINATE EROSION OF FILL SLOPES BY SURFACE RUNOFF; CONFINED WITH PONDING AREAS TO DE-SILT RUNOFF; TEMPORARY CHECK DAMS IN TOE OF SLOPE DITCHES TO DE-SILT RUNOFF; PROTECTION SUCH AS SAND BAGS AROUND INLETS WHICH HAVE NOT BEEN BROUGHT UP TO GRADE; AND EARTH BERMS AND APPROPRIATE GRADING TO DIRECT DRAINAGE AWAY FROM THE EDGE OF THE TOP OF SLOPES SHALL BE CONSTRUCTED AND MAINTAINED ON THOSE FILL AREAS WHERE EARTH WHERE EARTHWORK OPERATIONS ARE NOT IN PROGRESS.
22. TOP OF CUT BROWN DITCHES, WHERE REQUIRED ON THE PLANS, SHALL BE CONSTRUCTED PRIOR TO EXCEEDING 10 FEET OF CUT MEASURED VERTICALLY.
23. THE TIRES OF VEHICLES BEING USED ON-SITE SHALL BE INSPECTED AND WASHED IF NECESSARY TO STOP TRACKING OF DIRT ONTO PUBLIC STREETS. IF EXPORT OR IMPORT OF DIRT IS TO BE DONE, A PAVED OR GRAVELED WHEEL WASHING AREA AT LEAST 12' WIDE BY 40' LONG SHALL BE PROVIDED AT THE EXIT TO FACILITATE THE INSPECTION AND CLEANING OF TIRES. "RUMBLE STRIPS" MADE FROM STEEL, RAILROAD TRACK, OR SIMILAR MATERIALS CAN HELP REDUCE THE MUD GETTING ONTO THE CLEANING AREA. STREET SWEEPING AND WASHING IS STILL REQUIRED, BUT MAY BE REDUCED BY PROPER USE OF A WHEEL WASHING AREA" LIKE THIS. THEY ARE REQUIRED ON PROJECTS OVER 1 ACRES.
24. ANY SLOPES WITH DISTURBED SOILS OR DENUDED VEGETATION MUST BE STABILIZED TO INHIBIT EROSION BY WIND AND WATER.
25. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED 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 SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
26. STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND AND WATER.
27. 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.
28. EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC RIGHT –OF–WAY OR ANY DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON-SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
29. ALL NON–STORM WATER DISCHARGES, UNLESS ACCEPTED OR AUTHORIZED BY AN NPDES PERMIT, REQUIRE PRIOR APPROVAL BY THE STATE WATER RESOURCES CONTROL BOARD.
30. TRASH AND CONSTRUCTION RELATED SOLID WASTE MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.

31. CONSTRUCTION SITES SHALL BE MAINTAINED BY IMPLEMENTATION OF BEST MANAGEMENT PRACTICES (BMP) IN SUCH A MANNER THAT POLLUTANTS ARE NOT DISCHARGED FROM THE SITE.
32. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON-SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE OR WIND.
33. DUST CONTROL. THE OWNER OF THE SITE OR THE PROJECT CONTRACTOR SHALL PUT INTO EFFECT AND MAINTAIN ALL PRECAUTIONARY MEASURES NECESSARY TO PREVENT DUST BLOWING FRONT THE SITE ADJACENT PROPERTIES.

ATTACHMENT 8

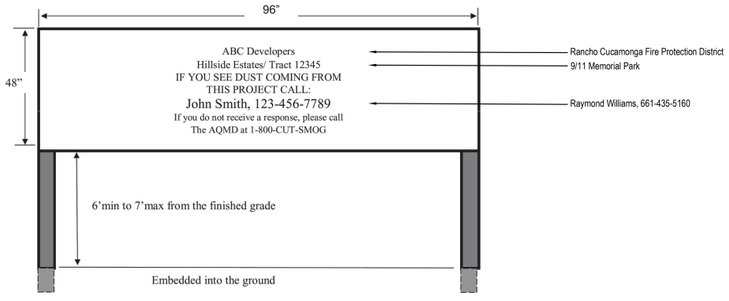
Prior to obtaining a permit for clearing and grubbing, stockpile, or rough grading, the applicant shall install a dust control sign on the property as indicated below. After installation of signage, inspection will be required. If you have any questions, please contact Chris Le Bere "Department Inspection Supervisor" at (909) 774-2710 ext. 4257.

GENERAL INFORMATION

1) Sign thickness should be 5/8 or 3/4 inch CDX laminated plywood board, overall size of 48"x96" (4 feet by 8 feet).
2) Signage must be located within 50 feet of each project site entrance.
3) One sign is sufficient for multiple site entrances located within 300 yards of each other.
4) Text height shall be at a minimum as shown on right side of sign template below.
5) Sign background must contrast with lettering. Typically, black text with white background.
6) The lower edge of the board must be a minimum of 6 feet and a maximum of 7 feet above grade.
7) The telephone number listed for the contact must be a local or a toll-free number and shall be accessible 24 hours per day.

EXAMPLE OF SIGNAGE

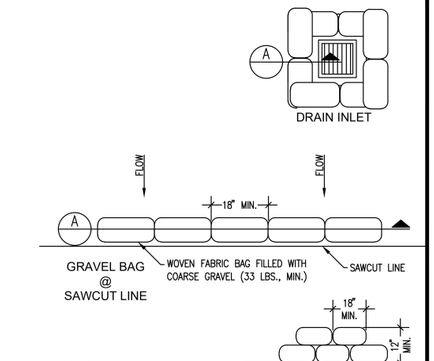
SIGNAGE INFORMATION	LETTERING SIZE
Empty Space	3"
Developers Name	4"
Project Name/Tract #####	4"
IF YOU SEE DUST COMING FROM	4"
THIS PROJECT CALL:	4"
Name, Phone Number	6"
If you do not receive a response, please call	3"
The AQMD at 1-800-CUT-SMOG	3"
Empty Space	3"



TYPICAL SIGNAGE

1. PROVIDE SIGNAGE OF ALL STORM DRAIN INLETS AND CATCH BASINS, WITHIN THE PROJECT AREA WITH PROHIBITIVE LANGUAGE (SUCH AS : "NO DUMPING THIS DRAINS TO RIVER") AND/ OR GRAPHICAL ICONS TO DISCOURAGE ILLEGAL DUMPING.
2. EMBOSS CATCH BASIN SIGN IN THE CONCRETE AND PAINT A NEUTRAL COLOR AS SHOWN.
3. MAINTAIN LEGIBILITY OF SIGN.
4. SEE CASQA STORMWATER HANDBOOK BMP FACT SHEET SD-13 FOR ADDITIONAL INFORMATIOM.

STORM DRAIN SIGNAGE | NTS | 02



NOTES:
1. INTENDED FOR SHORT–TERM USE ONLY.
2. USE TO INHIBIT NON–STORMWATER FLOW.
3. ALLOW FOR PROPER MAINTENANCE AND CLEANUP.
4. BAGS MUST BE REMOVED AFTER ADJACENT OPERATION IS COMPLETED.
5. NOT APPLICABLE IN AREAS WITH HIGH SILTS AND CLAYS WITHOUT FILTER FABRIC.

GRAVEL BAG BERM | NTS | 01

DIG ALERT
DIAL TOLL FREE
1–800–227–2600
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

DATE	SUBMITTAL

DATE	BY	MARK	REVISIONS	APPR.	DATE
ENGINEER				CITY	

DESIGNED BY: AT DRAWN BY: AT CHECKED BY: KS

SEAL
REGISTERED PROFESSIONAL ENGINEER
KATHEREEN M. SHINKAI
R.C.E. 68369
EXP. 9-30-25
CIVIL
STATE OF CALIFORNIA

APPROVED BY: DATE 06/24/2024
ACTING CITY ENGINEER
STEVE R. LORISO RCE: 64701

PREPARED BY: DATE 04/24/2024
KATHEREEN M. SHINKAI
CIVIL ENGINEER
R.C.E. NO. 68369 EXP. DATE 09/30/2025

LPA
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue, Suite 100
Irvine, California 92617
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

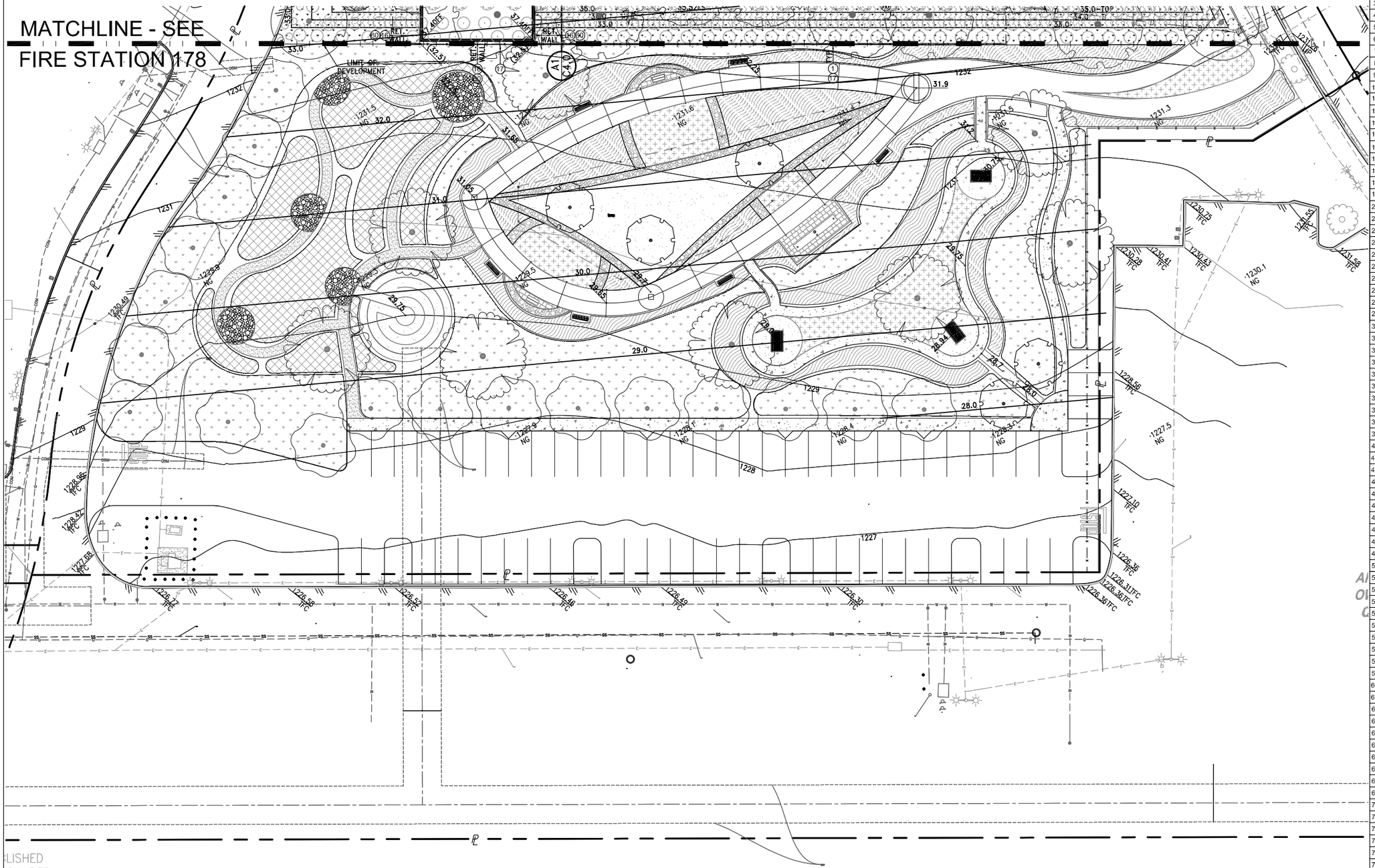
DESIGN-BUILD TEAM

SCALE: NO SCALE
DATE 04/24/2024

BENCHMARK: ELEVATIONS SHOWN HEREON ARE BASED ON THE CITY OF RANCHO CUCAMONGA BENCH MARK "10039", BEING A 2" BRASS DISC IN CONC CURB STAMPED "CITY OF RANCHO CUCAMONGA BM 10039 1987" AT NW CORNER OF FOOTHILL BLVD AND HAVEN AVE, 1' NORTH OF BCR AT S'LY END OF CATCH BASIN. ELEV = 1208.173'.

CITY OF RANCHO CUCAMONGA
9/11 MEMORIAL PARK
TERRA VISTA AVENUE
EROSION CONTROL NOTES AND DETAILS

SHEET NO. 12
OF 13 SHEETS
DWG. NO. 3078



CONSTRUCTION SCHEDULE

CONSTRUCT NEW... REMOVE EXIST...
PROTECT EXIST... RELOCATE EXIST...

#	Description	Std.	Detail
1	Curb A1-6	RC	104
2	Curb and Gutter A2-6	RC	104
3	Longitudinal Gutter	RC	106A
4	Concrete Flume	-	-
5	Concrete Paving	C050	A1
6	Driveway Type C	RC	101
7	Concrete Walk	C050	B2
8	Asphalt Concrete Paving	C050	A2
9	Full Depth AC	APWA	113
10	Curb Ramp	Caltrans	A88A
11	Concrete Strip	RC	534
12	Tree / Tree Well	SEE	LAND.
13	Bollard	CVWD	114
14	Curb Drain	RC	107A
15	Culvert	RC	107B
16	Wall	RC	606
17	Decorative Metal Fence	RC	607
18	Wheel Bumper	C050	C2
19	Sign & Post	RC	401B
20	SEWER LATERAL	CVWD	201+203
21	VCP Pipe	ASTM	C700
22	PVC Pipe SDR 35	ASTM	D3034
23	Clean out	CVWD	207
24	SManhole	204A-B	
25	Interceptor	CVWD	- 212
26	Street Light Std & Fdn	SEE	ELEC.
27	Utility Box	SEE	UTIL.
28	Conduit & Wiring	SEE	ELEC.
29	Water Sevice Meter	CVWD	103
30	Water Service Box	Water	Co.
31	Copper Pipe	ASTM	B88
32	PVC Pipe DR18	AWMA	C900
33	Ductile Iron Pipe CL52	AWWA	C151
34	Water Valve	CVWD	115+116
35	Maniford Service	CVWD	112
36	Hot Tap	CVWD	123
37	Fire Hydrant	CVWD	113
38	Detector Check BFP	CVWD	110
39	Reduced Pressure BFP	CVWD	111
40	Roof Drain	SEE	PLUM.
41	Splash Block	C050	A3
42	Trench Drain	C050	D2
43	SDR 35	ASTM	D3034
44	Manhole	APWA	321
45	Catch Basin	RC	300
46	Drop Inlet	C050	B1/C3
47	Filter Insert	C050	B3
48	Subdrain	-	-
49	Infiltration Basin	-	-
50	Gas Service & Meter	Gas	Co.
51	PE Gas Pipe	SPEC	-
52	Gas Steel Pipe	ASTM	A52
53	Pressure Regulator	SEE	PLUM.
54	Earthquake Valve	SEE	PLUM.
55	Utility Pole	UTIL.	Co.
56	Guy Wire	SEE	UTIL.
57	Vent	UTIL.	Co.
58	Underground Vault	RC	142
59	Transformer/Switchgear	SEE	ELEC.
60	Building	SEE	ARCH.
61	Trash Enclosure	SEE	ARCH.
62	Flag Pole Foundation	-	-
63	Column	-	-
64	Accessible Handicap Ramp	SEE	ARCH.
65	Steps	RC	600
66	Guardrail \ Handrail	RC	602
67	Detectable Warning	SEE	ARCH.
68	Slurry A.C. Paving	-	-
69	Colored Conc. Area	-	-
70	Grade Only	SEE	SPEC.
71	EV Footing	-	-
72	Gate Controller	SEE	ARCH.
73	Loop Detector	-	-
74	Light Bollard	SEE	ELEC.
75	Column	SEE	ARCH.
76	Monument Sign	SEE	ARCH.
77	Generator	SEE	ELEC.
78	Base	SEE	SPEC
79	Floor Drain	SEE	PLUM.
80	Observation Well	-	-

NOTE:
42 IN LIEU OF 1242 FOR CLARITY

architect:
MARY MCGRATH | ARCHITECTS
1212 BROADWAY, SUITE 1700
OAKLAND, CA 94612
phone: 510.208.9400
www.marymcgratharchitects.com

consultants:
A.S.H.B.A.
JOB: 8173
ENGINEERS LIMITED
POST OFFICE BOX 80833
LONG BEACH
CALIFORNIA 90808
(562) 209-6896
ISSUE DATE: 01.24.22

REGISTERED PROFESSIONAL ENGINEER
BARBARA J ASHE
No. 31417
Expires 12-31-22
CIVIL
STATE OF CALIFORNIA

no.	description	date

phase:
BRIDGING DOCUMENTS

CITY OF RANCHO CUCAMONGA

FIRE STATION 178

TOWN CENTER DR., RANCHO CUCAMONGA, CA 91730

drawing title:
PRECISE GRADING PLAN

CONCEPTUAL GRADING PLAN

SHEET 13 OF 13

project no.:
2811.01

DWG. NO.
3078

PRECISE GRADING PLAN

SCALE 1"=20' A1

PRELIMINARY - NOT FOR CONSTRUCTION

CITY OF RANCHO CUCAMONGA
9/11 MEMORIAL PARK
TERRA VISTA DRIVE
ONSITE SEWER AND WATER PLANS

WATER GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT ADOPTED CALIFORNIA BUILDING CODE AND PLUMBING CODE, THE CUCAMONGA VALLEY WATER DISTRICT'S STANDARDS AND SPECIFICATIONS AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK) LATEST EDITION AND ALL SUPPLEMENTS.
2. APPROVAL OF THIS PLAN BY THE CITY OF RANCHO CUCAMONGA DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION OR OF THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT THE PROTECTION OF ALL UTILITIES WITHIN THE LIMITS OF THE PROJECT.
3. INSPECTION SHALL BE BY THE CITY OF RANCHO CUCAMONGA, BUILDING & SAFETY DEPARTMENT. ALL REQUESTS FOR INSPECTION SHALL BE MADE AT LEAST 24 HOURS IN ADVANCE OF THE PROPOSED CONSTRUCTION.
4. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND CONFIRMING DEPTHS OF ALL THE EXISTING UTILITY LINES WITHIN PROPOSED TRENCHING AREAS.
5. PUBLIC STREETS SHALL BE KEPT CLEAN AND FREE FROM DIRT AND/OR DEBRIS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED IN STREET CLEANING NECESSITATED BY HIS OPERATION.
6. INSTALLATION WORK SHALL BE PERFORMED BY FULLY EXPERIENCED AND RESPONSIBLE PERSONS.
7. FITTINGS SHALL BE OF AN APPROVED TYPE WITH JOINTS AND PRESSURE CLASS RATINGS COMPATIBLE WITH THE PIPE USED. JOINTS SHALL BE ASSEMBLED BY PERSONS FAMILIAR WITH THE PARTICULAR MATERIALS BEING USED AND IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS.
8. WHEN WORK IS STOPPED, THE OPEN ENDS OF PIPE, VALVES, HYDRANTS, AND FITTINGS SHALL BE PLUGGED TO PREVENT STONES AND FOREIGN MATERIALS FROM ENTERING.
9. THRUST BLOCKS SHALL BE CONSIDERED SATISFACTORY WHERE SOIL IS SUITABLE FOR THEIR USE PER CITY OF RANCHO CUCAMONGA FIRE CONSTRUCTION SERVICES. WHEREVER POSSIBLE, THRUST BLOCKS SHALL BE PLACED SO THAT THE JOINTS ARE ACCESSIBLE FOR REPAIR.
10. BACKFILL SHALL BE TAMPED IN LAYERS OR PUDDLE UNDER AND AROUND PIPES TO PREVENT SETTLEMENT OR LATER MOVEMENT AND SHALL CONTAIN NO ASHES, CINDERS, REFUSE, ORGANIC MATTER, OR OTHER CORROSIVE MATERIALS. NO ROCKS SHALL BE PLACED IN TRENCHES.
11. THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:
    (1) NOTIFYING THE AUTHORITY HAVING JURISDICTION AND OWNER'S REPRESENTATIVE OF THE TIME AND DATE TESTING IS TO BE PERFORMED;
    (2) PERFORMING ALL REQUIRED ACCEPTANCE TESTS.
12. THE CONTRACTOR SHALL RETURN A LEGIBLE AND CLEAN SET OF "AS BUILT" DRAWINGS TO THE CITY OF RANCHO CUCAMONGA ENGINEERING SERVICES DEPARTMENT PRIOR TO FINAL ACCEPTANCE OF ANY SYSTEM.

SEWER GENERAL NOTES

1. ALL WORK SHALL BE IN A ACCORDANCE WITH THE CURRENT ADOPTED CALIFORNIA BUILDING CODE AND PLUMBING CODE, THE CUCAMONGA VALLEY WATER DISTRICT'S STANDARDS AND SPECIFICATIONS AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK) LATEST EDITION AND ALL SUPPLEMENTS.
2. APPROVAL OF THIS PLAN BY THE CITY OF RANCHO CUCAMONGA DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION OR OF THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT THE PROTECTION OF ALL UTILITIES WITHIN THE LIMITS OF THE PROJECT.
3. INSPECTION SHALL BE BY THE CITY OF RANCHO CUCAMONGA, BUILDING & SAFETY DEPARTMENT. ALL REQUESTS FOR INSPECTION SHALL BE MADE AT LEAST 24 HOURS IN ADVANCE OF THE PROPOSED CONSTRUCTION.
4. DURING THE PERIOD OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN SUCH WARNINGS, SIGNS, STOP SIGNS, BARRICADES AND OTHER SAFETY MEASURES AS DIRECTED BY THE CITY OF RANCHO CUCAMONGA, ENGINEERING SERVICES WITH REFERENCE TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, CALIFORNIA SUPPLEMENT, ALL EDITIONS.
5. THE CONTRACTOR IS RESPONSIBLE FOR SECURING FROM THE CUCAMONGA VALLEY WATER DISTRICT COPIES OF THE LATEST STANDARD SPECIFICATIONS PRIOR TO START OF CONSTRUCTION.
6. ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE THEMSELVES WITH THE SITE AND SHALL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY, OR INDIRECTLY, FROM THEIR OPERATIONS, WHETHER OR NOT SAID FACILITIES ARE SHOWN ON THESE PLANS.
7. SEWER PIPE MATERIALS SHALL COMPLY WITH THE CURRENT ADOPTED CALIFORNIA PLUMBING CODE.
8. THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN THE NECESSARY PERMITS FROM THE APPROPRIATE LOCAL AGENCIES PRIOR TO ANY CONSTRUCTION WITHIN ANY STREET, RIGHT-OF-WAY, OR EASEMENT.
9. USE OF A PIPE DEFLECTOR OR RE-ROUNDER SHALL NOT BE PERMITTED ON OVER-DETECTED PIPE.
10. CONTRACTOR SHALL NOT OPEN MORE TRENCH THAN CAN BE PROPERLY CONSTRUCTED AND FILLED IN A DAY'S OPERATION. ANY TRENCH UNAVOIDABLY LEFT OPEN DURING THE HOURS OF DARKNESS OR OVER A WEEKEND SHALL BE FENCED WITH 6 FOOT CHAIN LINK FENCING AND PROPERLY LIGHTED
11. CONTRACTOR SHALL REINSTALL PAVEMENT MARKINGS AND STRIPING THAT HAS BEEN DISTURBED BY HIS OPERATIONS.
12. O.S.H.A. PERMIT REQUIRED FOR TRENCHES OVER 5 FEET IN DEPTH PRIOR TO START OF TRENCH EXCAVATION.
13. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT PRIOR TO BEGINNING WORK.
14. THE CONTRACTOR SHALL PROVIDE SAFE AND CONTINUOUS PASSAGE FOR LOCAL PEDESTRIAN AND VEHICULAR TRAFFIC AT ALL TIMES.
15. SHOULD ANY OF THE EXISTING UTILITIES OR ANY OTHER FACILITIES CONFLICT WITH THE PROPOSED SEWER LINE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AND AWAIT THE RELOCATION AND/OR ALTERNATE.
16. THE CONTRACTOR SHALL EXERCISE DUE CARE TO AVOID INJURY TO EXISTING IMPROVEMENTS OR FACILITIES, UTILITY FACILITIES, ADJACENT PROPERTY, AND TREES AND SHRUBBERY THAT ARE NOT TO BE REMOVED. CONTRACTOR SHALL NOTIFY USA PRIOR TO ENTERING PROJECT SITE.
17. THE MINIMUM SEPARATION BETWEEN WATER LINES AND SANITARY SEWER LINES SHALL CONFORM TO THE STATE OF CALIFORNIA ENVIRONMENTAL HEALTH CODE, TITLE 22, SECTION 64630-C.
18. THE CONTRACTOR SHALL RETURN A LEGIBLE AND CLEAN SET OF "AS BUILT" DRAWINGS TO THE CITY OF RANCHO CUCAMONGA ENGINEERING SERVICES DEPARTMENT PRIOR TO FINAL ACCEPTANCE OF ANY SYSTEM.
19. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY UNDERGROUND SERVICE ALERT (1-800-227-2600) AT LEAST TWO WORKING DAYS (48 HOURS) PRIOR TO START CONSTRUCTION.
20. ALL REMOVALS IN PAVED AREAS SHALL BE SAW CUT ON A NEAT, STRAIGHT LINE PARALLEL TO THE PIPE LINE. THE CUT EDGE SHALL BE PROTECTED FROM CRUSHING AND ALL BROKEN EDGES SHALL BE RECUT PRIOR TO PAVING OPERATIONS.
21. PUBLIC STREETS SHALL BE KEPT CLEAN AND FREE FROM DIRT AND/OR DEBRIS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COST INCURRED IN STREET CLEANING NECESSITATED BY HIS OPERATION.
22. THE CONTRACTOR IS RESPONSIBLE FOR SECURING FROM THE CUCAMONGA VALLEY WATER DISTRICT COPIES OF THE LATEST STANDARD SPECIFICATIONS PRIOR TO START OF CONSTRUCTION.
23. ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE THEMSELVES WITH THE SITE AND SHALL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES DIRECTLY, OR INDIRECTLY, FROM THEIR OPERATIONS, WHETHER OR NOT SAID FACILITIES ARE SHOWN ON THESE PLANS.

LEGEND

SYMBOL	DESCRIPTION
	DOUBLE DETECTOR CHECK (DBL CHK)
	WATER METER
	VALVE
	DRAIN INLET
	DRYWELL
	CLEANOUT

OWNER/DEVELOPER

OWNER/DEVELOPER: RANCHO CUCAMONGA FIRE PREVENTION DISTRICT
ADDRESS: 10500 CIVIC CENTER DRIVE, RANCHO CUCAMONGA, CA 91729
CONTACT NAME: MIKE McCLIMAN
TELEPHONE: 909-477-2770 EXT. 3002

CIVIL ENGINEER

COMPANY: LPA, INC.
ADDRESS: 5301 CALIFORNIA AVENUE, SUITE 100, IRVINE, CA 92617
CONTACT: KATHEREEN SHINKAI, PE
TELEPHONE: 949-701-4033

UTILITY PURVEYORS

1.	ELECTRICITY	SOUTHERN CALIFORNIA EDISON	800-655-4555
		RANCHO CUCAMONGA MUNICIPAL UTILITY	909-919-2612
2.	GAS	SOUTHERN CALIFORNIA GAS	800-427-2200
3.	CABLE TV	SPECTRUM	888-892-4357
		FRONTIER COMMUNICATIONS	855-386-1691
		DIRECTV	844-872-8154
4.	SEWER	CUCAMONGA VALLEY WATER DISTRICT	909-944-6000
5.	WATER	CUCAMONGA VALLEY WATER DISTRICT	909-944-6000
6.	REFUSE	BURRTEC DISPOSAL	909-987-3717
7.	SATELLITE	HUGHESNET	877-464-9363

GEOTECHNICAL INFORMATION

FOR SITE PREPARATION, OVEREXCAVATION, FOUNDATION RECOMMENDATIONS, PAVEMENT, SUBGRADE, AND GRADATION REQUIREMENTS SEE GEOTECHNICAL INVESTIGATION REPORT ENTITLED:

"GEOTECHNICAL EXPLORATION 9/11 MEMORIAL PARK
TERRA VISTA PARKWAY, SOUTH OF TOWN CENTER DRIVE
RANCHO CUCAMONGA, CALIFORNIA"

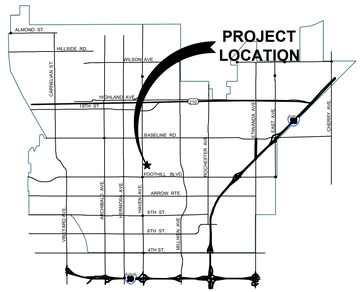
PREPARED BY: LEIGHTON CONSULTING, INC.
10532 ACACIA STREET
Suite B-8
RANCHO CUCAMONGA, CA 91730

PROJECT NO: 038.0000020084

DATED: DECEMBER 6, 2023

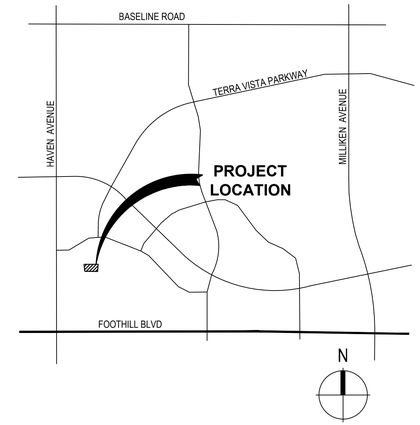
VICINITY MAP

N.T.S.



LOCATION MAP

N.T.S.



SHEET INDEX

1	TITLE SHEET
2	QUANTITIES AND DETAILS
3	ONSITE SEWER AND WATER PLAN

OSW2023-00011 D.R.C. NO. 2023-00423

DATE	SUBMITTAL

DIG ALERT
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

DATE	BY	MARK	REVISIONS	APPR.	DATE
			ENGINEER	CITY	

DESIGNED BY: AT DRAWN BY: AT CHECKED BY: KS

SEAL
REGISTERED PROFESSIONAL ENGINEER
KATHEREEN M. SHINKAI
R.C.E. 68369
EXP. 9-30-25
CIVIL
STATE OF CALIFORNIA

APPROVED BY: DATE 06/24/2024
ACTING CITY ENGINEER
STEVE R. LORISO RCE: 64701

PREPARED BY: DATE 04/24/2024
KATHEREEN M. SHINKAI
CIVIL ENGINEER
R.C.E. NO. 68369 EXP. DATE 09/30/2025

LPA
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue, Suite 100
Irvine, California 92617
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

DESIGN-BUILD TEAM

SCALE: NO SCALE
DATE 04/24/2024

BENCHMARK: ELEVATIONS SHOWN HEREON ARE BASED ON THE CITY OF RANCHO CUCAMONGA BENCH MARK "10039", BEING A 2" BRASS DISC IN CONC CURB STAMPED "CITY OF RANCHO CUCAMONGA BM 10039 1987" AT NW CORNER OF FOOTHILL BLVD AND HAVEN AVE, 1' NORTH OF BCR AT S'LY END OF CATCH BASIN. ELEV = 1208.173'.

CITY OF RANCHO CUCAMONGA
9/11 MEMORIAL PARK
TERRA VISTA DRIVE
ONSITE SEWER AND WATER PLANS
TITLE SHEET

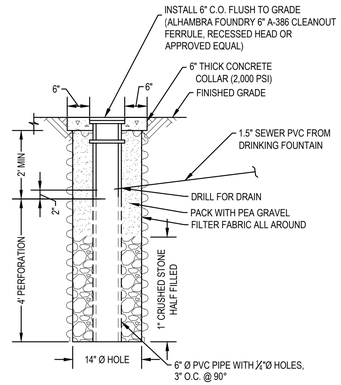
SHEET NO. 1 OF 3 SHEETS
DWG. NO. 3079

SEWER CONSTRUCTION NOTES:

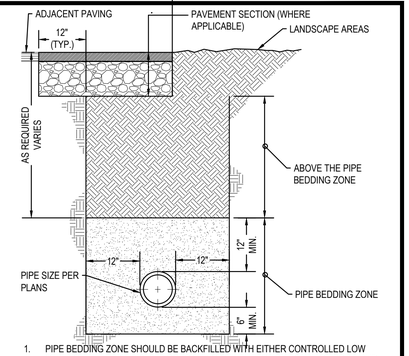
		QUANTITIES
(40)	CONSTRUCT DRYWELL PER DETAIL 02 SHEET 2. CONNECT DRINKING FOUNTAIN SEWER LATERAL 1.5" PVC (SCH 40) TO DRYWELL.	1 EA 3 LF (PVC SCH 40)

WATER CONSTRUCTION NOTES:

		QUANTITIES
(50)	INSTALL 2" COPPER PIPE (TYPE K, SOFT, ANNEALED) WITH 30" MINIMUM COVER. TRENCH BEDDING AND BACKFILL PER DETAIL 01 SHEET 2.	128.0 LF
(51)	CONNECT DRINKING FOUNTAIN WATER LATERAL TO 2" WATER LINE. VERIFY POINT OF CONNECTION WITH LANDSCAPE PLANS.	1 EA



DRYWELL DETAIL | NTS | 02



1. PIPE BEDDING ZONE SHOULD BE BACKFILLED WITH EITHER CONTROLLED LOW STRENGTH MATERIAL (CLSM) CONSISTING OF AT LEAST ONE SACK OF PORTLAND CEMENT PER CY OF SAND OR IMPORTED CLEAN/UNIFORM SAND WITH SAND EQUIVALENT (SE) GREATER THAN OR EQUAL TO 30. CLSM SHOULD NOT BE JETTED BUT SAND SHOULD BE FLOODED AND JETTED.
2. ABOVE THE PIPE BEDDING ZONE SHOULD BE BACKFILLED WITH EXCAVATED ONSITE SOILS FREE OF DEBRIS, ORGANIC AND OVERSIZED MATERIAL GREATER THAN 3 INCHES IN LARGEST DIMENSION. THE WHOLE TRENCH CAN ALSO BE BACKFILLED WITH ONE-SACK CLSM AS PRESENTED IN NOTE NO. 1 FOR THE PIPE BEDDING ZONE UNDER THE PAVEMENT. NATIVE SOIL BACKFILL SHOULD BE COMPACTED TO A MINIMUM OF 90% RELATIVE COMPACTION AS DETERMINED BY ASTM D1557.

PIPE TRENCH | NTS | 01

OSW2023-00011 D.R.C. NO. 2023-00423

DATE	SUBMITTAL

DIG ALERT
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

DATE	BY	MARK	REVISIONS	APPR.	DATE
				CITY	

DESIGNED BY: AT DRAWN BY: AT CHECKED BY: KS

SEAL
REGISTERED PROFESSIONAL ENGINEER
KATHEREEN M. SHINKAI
R.C.E. 68369
EXP. 9-30-25
CIVIL
STATE OF CALIFORNIA

APPROVED BY: DATE 06/24/2024
ACTING CITY ENGINEER
STEVE R. LORISO RCE: 64701

PREPARED BY: DATE 04/24/2024
KATHEREEN M. SHINKAI
CIVIL ENGINEER
R.C.E. NO. 68369 EXP. DATE 09/30/2025

LPA
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue, Suite 100
Irvine, California 92617
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING

AMG
AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

DESIGN-BUILD TEAM

SCALE: NO SCALE
DATE 04/24/2024

BENCHMARK: ELEVATIONS SHOWN HEREON ARE BASED ON THE CITY OF RANCHO CUCAMONGA BENCH MARK "10039", BEING A 2" BRASS DISC IN CONC CURB STAMPED "CITY OF RANCHO CUCAMONGA BM 10039 1987" AT NW CORNER OF FOOTHILL BLVD AND HAVEN AVE, 1' NORTH OF BCR AT S'LY END OF CATCH BASIN. ELEV = 1208.173'.

CITY OF RANCHO CUCAMONGA
9/11 MEMORIAL PARK
TERRA VISTA DRIVE
QUANTITIES AND DETAILS

SHEET NO. **2** OF 3 SHEETS
DWG. NO. **3079**

SEWER CONSTRUCTION NOTES:

(40) CONSTRUCT DRYWELL PER DETAIL 02 SHEET 2. CONNECT DRINKING FOUNTAIN SEWER LATERAL 1.5" PVC (SCH 40) TO DRYWELL.

WATER CONSTRUCTION NOTES:

(50) INSTALL 2" COPPER PIPE (TYPE K, SOFT, ANNEALED) WITH 30" MINIMUM COVER. TRENCH BEDDING AND BACKFILL PER DETAIL 01 SHEET 2.

(51) CONNECT DRINKING FOUNTAIN WATER LATERAL TO 2" WATER LINE. VERIFY POINT OF CONNECTION WITH LANDSCAPE PLANS.

NOTES TO CONTRACTOR:

1) ELEVATIONS SHOWN ON PLAN ARE TRUNCATED VALUES. ADD 1200 TO THE ELEVATIONS SHOWN FOR CONSTRUCTION STAKING BASED ON THE PROJECT BENCHMARK.

2) UTILITIES TO CROSS OVER OR UNDER OTHER UTILITIES TO MAINTAIN 12" MINIMUM CLEARANCE AT UTILITY CROSSINGS, UNLESS NOTED OTHERWISE. SANITARY SEWER TO CROSS UNDER POTABLE WATER.

3) CONTRACTOR SHALL VERIFY SIZE AND LOCATION (HORIZONTAL AND VERTICAL) OF EXISTING CROSSING AND JOINING UTILITIES PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICT.

4) CONTRACTOR SHALL CONSTRUCT GRAVITY UTILITIES (SEWER AND STORM DRAIN) BEFORE OTHER UTILITIES. CONSTRUCTION OF THESE GRAVITY UTILITIES TO START FROM THE DOWNSTREAM ENDS.

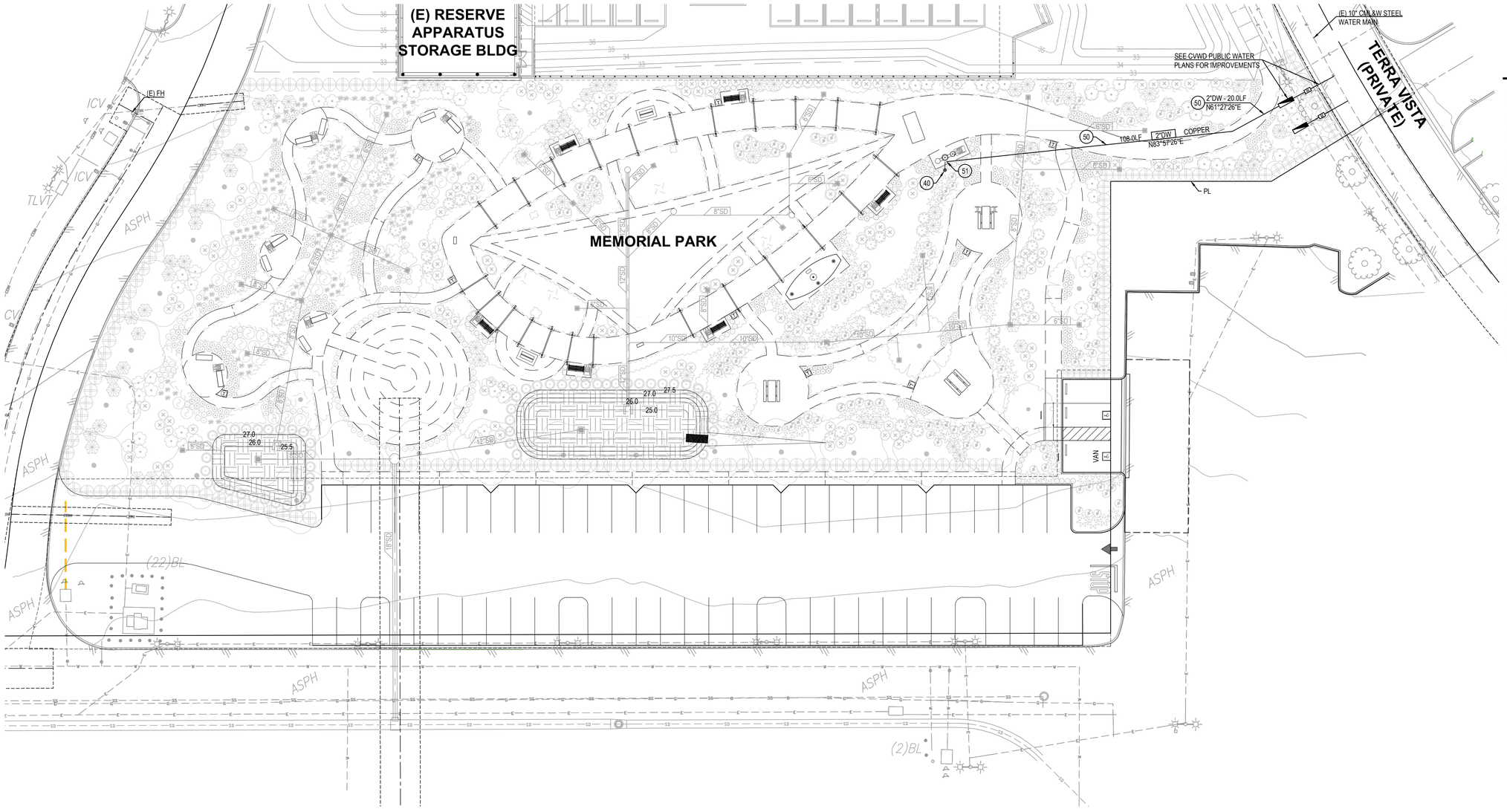
5) EXISTING UTILITIES ARE COMPILED BASED ON PREVIOUS BASE FILES, FIELD SURVEY AND FIELD VERIFICATION. POTHOLING IS RECOMMENDED TO VERIFY ANY AND ALL UTILITIES KNOWN OR UNKNOWN WHICH MAY BE IN CONFLICT WITH PROPOSED CONSTRUCTION.

6) PRIOR TO THE REMOVAL OF ANY WET OR DRY UTILITY LINES, THE CONTRACTOR SHALL CONFIRM WITH OWNER REPRESENTATIVE WHETHER THESE UTILITY LINES ARE STILL ACTIVE OR NOT. IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICT.

7) CONTRACTOR TO ADJUST TO FINISHED GRADE ALL EXISTING UTILITY BOXES, SEWER CLEANOUT COVERS, PULL BOXES AND VALVE COVERS NOT SPECIFICALLY SHOWN WITHIN THE LIMITS OF WORK.

8) SEE DETAIL 01 SHEET 2 FOR UTILITY TRENCHING AND BACKFILL.

9) SAWCUT, REMOVE AND REPLACE EXISTING CURB AS REQUIRED FOR TRENCHING. MATCH EXISTING CURB.



N

0 10 20 40

OSW2023-00011 D.R.C. NO. 2023-00423

DATE	SUBMITTAL

DIG ALERT
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

DATE	BY	MARK		APPR.	DATE
ENGINEER			REVISIONS	CITY	

DESIGNED BY: AT DRAWN BY: AT CHECKED BY: KS

SEAL
REGISTERED PROFESSIONAL ENGINEER KATHEREEN M. SHINKAI R.C.E. 68369 EXP. 9-30-25 STATE OF CALIFORNIA CIVIL

APPROVED BY: DATE 06/24/2024
ACTING CITY ENGINEER
STEVE R. LORISO RCE: 64701

PREPARED BY: DATE 04/24/2024
KATHEREEN M. SHINKAI
CIVIL ENGINEER
R.C.E. NO. 68369 EXP. DATE 09/30/2025

LPA
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue, Suite 100
Irvine, California 92617
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING

AMG
AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350
DESIGN-BUILD TEAM

SCALE: 1"=20'

DATE 04/24/2024

BENCHMARK: ELEVATIONS SHOWN HEREON ARE BASED ON THE CITY OF RANCHO CUCAMONGA BENCH MARK "10039", BEING A 2" BRASS DISC IN CONC CURB STAMPED "CITY OF RANCHO CUCAMONGA BM 10039 1987" AT NW CORNER OF FOOTHILL BLVD AND HAVEN AVE, 1' NORTH OF BCR AT S'LY END OF CATCH BASIN. ELEV = 1208.173'.

CITY OF RANCHO CUCAMONGA
9/11 MEMORIAL PARK TERRA VISTA DRIVE
ONSITE SEWER AND WATER PLAN

SHEET NO. 3 OF 3 SHEETS

DWG. NO. 3079

CUCAMONGA VALLEY WATER DISTRICT

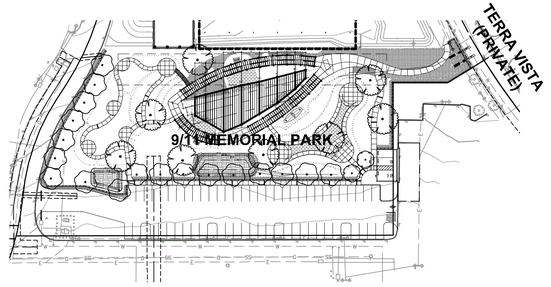
PM 15476
9/11 MEMORIAL PARK
PUBLIC WATER PLANS

WATER GENERAL NOTES

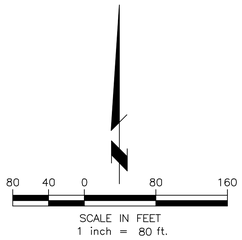
1. ALL WATER LINES SHALL BE, CEMENT MORTAR LINED AND COATED STEEL PIPE IN ACCORDANCE WITH ANSI/AWWA SPECIFICATION C205-00. ENGINEER MUST FURNISH CALCULTIONS TO CONFIRM MINIMUM WALL THICKNESS CONFORMS TO AWWA M11 PRIOR TO APPROVAL OF PLANS. ALL MATERIALS IN CONTACT WITH WATER SHALL BE NSF 61 APPROVED.
2. THE APPROXIMATE MINIMUM AND MAXIMUM STATIC WATER PRESSURE AVAILABLE TO SERVE THE SUBJECT DEVELOPMENT IS 67 P.S.I. AND 81 P.S.I., RESPECTIVELY.
3. PRESSURE REGULATING VALVES ARE REQUIRED FOR EACH SERVICE WHERE THE WATER SYSTEM PRESSURE EXCEEDS 80 P.S.I. (SEE NOTE #5). SEE STANDARD DRAWING 111.
4. ALL WATER METER SIZES SHALL BE 2" (DOMESTIC) AND 1.5" (LANDSCAPE).
5. THE MINIMUM COVER FOR 6-INCH AND 8-INCH WATER LINES SHALL BE 30 INCHES, 10-INCH WATER LINES SHALL BE 36 INCHES, 12-INCH WATER LINES SHALL BE 42 INCHES, AND 16-INCH WATER LINES AND ABOVE SHALL BE 48 INCHES.
6. ALL FIRE HYDRANT LOCATIONS SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE CITY OF RANCHO CUCAMONGA FIRE PROTECTION DISTRICT.
7. THE CONTRACTOR PERFORMING THE WORK SHALL HAVE A CLASS C34 OR CLASS A GENERAL CONTRACTING LICENSE WITH RELEVANT WATER PIPELINE CONSTRUCTION EXPERIENCE.
8. ALL WATER METER SERVICES FOR THE USE OF LANDSCAPE IRRIGATION OR PUBLIC DOMESTIC USE, OTHER THAN FOR RESIDENTIAL, SHALL HAVE INSTALLED AN APPROVED REDUCED PRESSURE PRINCIPAL BACKFLOW ASSEMBLY AS THE MINIMUM BACKFLOW PROTECTION REQUIREMENT.
9. THE WATER CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND INSTALLING DISTRICT FURNISHED METER BOXES.
10. SAND BEDDING AND SAND BACKFILL IN THE PIPE ZONE IS REQUIRED.
11. THE WATER CONTRACTOR SHALL ADJUST ALL GATE VALVE COVERS TO GRADE AFTER FINAL PAVING IS COMPLETED.
12. PRIOR TO THE ACTIVATION OF ANY NEWLY CONSTRUCTED WATER LINES, OR ANY CONNECTIONS TO EXISTING SYSTEMS, HYDROSTATIC TESTING AND DISINFECTION SHALL BE PERFORMED IN ACCORDANCE WITH AWWA STANDARDS FOR INSTALLATION OF STEEL WATER PIPE AND DISINFECTION WATER MAINS C604 AND C651, RESPECTIVELY.
13. ANY UNDERCUT SEWER PIPE WILL REQUIRE A ONE-SACK SAND SLURRY BACKFILL UP TO THE SPRINGLINE OF THE SEWER PIPE.
14. THE CONTRACTOR SHALL NOTE MAKE ANY CONNECTION TO THE EXISTING CVWD DISTRIBUTION SYSTEM WITHOUT FIRST GAINING WRITTEN PERMISSION FROM THE WATER DEPARTMENT ENGINEER. IN THE EVENT THAT PERMISSION IS GRANTED, A CVWD INSPECTOR MUST BE PRESENT ON-SITE TO WITNESS SAID CONNECTION(S).

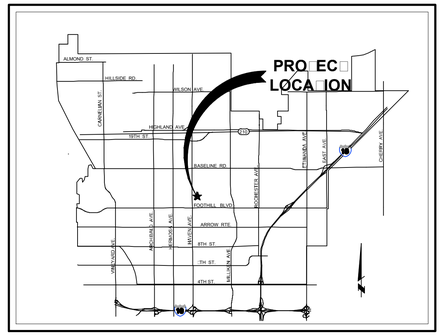
GENERAL NOTES

1. ALL WATER, SEWER, AND RECYCLED WATER LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CUCAMONGA VALLEY WATER DISTRICT'S STANDARD DRAWINGS FOR THE CONSTRUCTION OF SYSTEM FACILITIES AND THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. ALL DISTRICT STANDARDS ARE AVAILABLE DIRECTLY OR BY REFERENCE AT WWW.CVWDWATER.COM/DEVELOPMENT.
2. THE CONTRACTOR IS RESPONSIBLE FOR SECURING FROM THE CUCAMONGA VALLEY WATER DISTRICT COPIES OF THE LATEST STANDARD DRAWINGS FOR THE CONSTRUCTION OF SYSTEM FACILITIES PRIOR TO START OF CONSTRUCTION.
3. ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE THEMSELVES WITH THE SITE AND SHALL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY, OR INDIRECTLY, FROM THEIR OPERATIONS, WHETHER OR NOT SAID FACILITIES ARE SHOWN ON THESE PLANS. THE DISTRICT MAY, AT ITS SOLE DISCRETION, DETERMINE A DEVELOPER'S CONTRACTOR IS UNABLE OR UNWILLING TO PERFORM REPAIRS. IN THIS CASE, THE DISTRICT CAN ASSIGN ITS OWN STAFF OR AN EMERGENCY CONTRACTOR TO PERFORM REPAIR WORK AT THE EXPENSE OF THE DEVELOPER'S CONTRACTOR.
4. THE DEVELOPER SHALL HAVE THEIR ENGINEER AND/OR CONTRACTOR VERIFY THE ELEVATIONS OF ALL EXISTING WATER MAINS AND MANHOLE INVERTS AT POINTS OF CONNECTION PRIOR TO ANY CONSTRUCTION OF FACILITIES. ANY NECESSARY CHANGES OF WATER LINE DEPTH, MANHOLE DEPTH, OR DESIGNED SLOPE OF THE SEWER LINE SHALL BE SUBMITTED TO THE CUCAMONGA VALLEY WATER DISTRICT FOR REVIEW AND APPROVAL PRIOR TO START OF CONSTRUCTION. DISCOVERY OF ANY DISCREPANCIES AFTER THE START OF CONSTRUCTION MAY RESULT IN A SUSPENSION IN CONSTRUCTION UNTIL A REMEDY IS APPROVED BY THE DISTRICT.
5. THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN THE NECESSARY PERMITS FROM THE APPROPRIATE LOCAL AGENCIES PRIOR TO ANY CONSTRUCTION WITHIN ANY STREET, RIGHT-OF-WAY, OR EASEMENT.
6. THE MINIMUM SEPARATION BETWEEN WATER LINES AND SANITARY SEWER LINES SHALL CONFORM TO THE STATE OF CALIFORNIA ENVIRONMENTAL HEALTH CODE, TITLE 22.
7. TRENCH RESTORATION AND PAVEMENT REPAIR SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE APPROPRIATE LOCAL AGENCY.
8. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY UNDERGROUND SERVICE ALERT (811) AT LEAST TWO WORKING DAYS (48 HOURS) PRIOR TO START OF CONSTRUCTION.
9. FOR WATER, SEWER, OR RECYCLED WATER SYSTEM INSPECTION ON THIS PROJECT, THE CONTRACTOR SHALL CONTACT THE CUCAMONGA VALLEY WATER DISTRICT AT (909) 987-2591, TWO WORKING DAYS PRIOR TO THE REQUIRED INSPECTION DATE.
10. THE CONTRACTOR SHALL RETURN A LEGIBLE AND CLEAN SET OF "AS BUILT" DRAWINGS TO THE CUCAMONGA VALLEY WATER DISTRICT PRIOR TO FINAL ACCEPTANCE OF ANY SYSTEM.
11. APPROVAL OF THESE PLANS BY THE CUCAMONGA VALLEY WATER DISTRICT DOES NOT CONSTITUTE A REPRESENTATION OF THE ACCURACY OR EXISTENCE OF ANY EXISTING UNDERGROUND FACILITIES, WHETHER OR NOT SAID FACILITIES ARE SHOWN ON THESE PLANS.



LOCATION MAP





VICINITY MAP

DEVELOPER/OWNER

CITY OF RANCHO CUCAMONGA
RANCHO CUCAMONGA FIRE PREVENTION DISTRICT
10500 CIVIC CENTER DRIVE
RANCHO CUCAMONGA, CA 91729
CONTACT: MIKE MCCLIMAN
(909) 477-2770 EXT. 3002

CIVIL ENGINEER

LPA INC.
5301 CALIFORNIA AVENUE
SUITE 100
IRVINE, CA 92617
CONTACT: KATHEREEN SHINKAI, PE
(949) 701-4033

GEOTECHNICAL ENGINEER

LEIGHTON CONSULTING, INC.
10532 ACACIA STREET
Suite B6
RANCHO CUCAMONGA, CA 91730
CONTACT: JASON HERTZBERG, PE
(909) 484-2054

LEGEND

SYMBOL	DESCRIPTION
	MANHOLE
	FIRE HYDRANT
	VALVE
	DOUBLE DETECTOR CHECK
	WATER METER
	DOUBLE CHECK DETECTOR ASSEMBLY WITH FDC

WATER CONSTRUCTION NOTES:

		QUANTITIES
11	INSTALL 2" SERVICE LINE WITH 2" DOMESTIC METER PER CUCAMONGA VALLEY WATER DISTRICT STANDARD DRAWING 103.	1 EA
12	INSTALL BACKFLOW DEVICE (SAME SIZE AS METER) PER CUCAMONGA VALLEY WATER DISTRICT STANDARD DRAWING 111.	1 EA
13	CONSTRUCT TYPICAL TRENCH SECTION PER CUCAMONGA VALLEY WATER DISTRICT STANDARD DRAWING 301.	10 LF
14	SAWCUT, REMOVE AND REPLACE EXISTING AC PAVEMENT (WHERE APPLICABLE). CONSTRUCT TRENCH RESTORATION PER CITY OF RANCHO CUCAMONGA STANDARD DRAWING NO. 120.	30 SF
15	INSTALL 2" SERVICE LINE WITH 1½" LANDSCAPE METER PER CUCAMONGA VALLEY WATER DISTRICT STANDARD DRAWING 103.	1 EA

NOTICE TO DEVELOPER'S ENGINEER AND CONTRACTOR

AS-BUILT PLANS ARE FOR INFORMATIONAL PURPOSES ONLY AND AS-BUILT PLAN MAY NOT REFLECT ACTUAL FIELD CONDITIONS. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS, TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT THOSE SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR UTILITY PIPES, CONDUITS, OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS. ANY PROTECTION, RELOCATION, RE-DESIGN, OR REPAIRS THAT MAY BE PLANNED OR REQUIRED UPON DISCOVERY IN THE COURSE OF THIS PROJECT ARE THE SOLE RESPONSIBILITY OF THE DEVELOPER.

CONTRACTOR SHALL VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING SEWER LINE PRIOR TO START OF CONSTRUCTION. POTHOLING IS REQUIRED AT POINTS OF CONNECTION AND OVER ALL EXISTING FACILITIES CROSSINGS. RESULTS OF POTHOLING MUST BE PLOTTED ON THE ORIGINAL DRAWINGS AND SUBMITTED TO THE DISTRICT THREE (3) WORKING DAYS PRIOR TO THE START OF ANY TRENCH EXCAVATION. ANY DEVIATIONS FROM PROFILE MUST BE REVIEWED AND APPROVED BY THE DISTRICT PRIOR TO START OF CONSTRUCTION.

CONTRACTOR AND DEVELOPER ARE RESPONSIBLE FOR COMPLIANCE WITH THE APPROVED DRAWINGS AND ALL OF THE DISTRICT'S STANDARDS AND POLICIES. CONTRACTOR TO FAMILIARIZE THEMSELVES TO CUCAMONGA VALLEY WATER DISTRICT STANDARDS AND INSTALL FACILITIES PER SAID STANDARDS. IF THERE IS A DISCREPANCY BETWEEN THE APPROVED DRAWINGS AND DISTRICT STANDARDS, THE DISTRICT STANDARDS SHALL GOVERN UNLESS EXPLICITLY STATED OTHERWISE. TREE, SHRUBS, AND PLANTS MUST BE PLANTED AT LEAST 10' FROM ALL WATER AND SEWER FACILITIES.

ANY WATER OR SEWER FACILITIES NOT BEING USED BY THIS PROJECT MUST BE ABANDONED AS DIRECTED BY THE CUCAMONGA VALLEY WATER DISTRICT INSPECTOR. INCLUDING, BUT NOT LIMITED TO WATER METERS, WATER MAINS, SERVICE LINES, SEWER LATERALS, OR SEWER MAINS. DEVELOPER'S ENGINEER AND CONTRACTOR MUST CONDUCT A FIELD INSPECTION PRIOR TO CONSTRUCTION FOR ALL ABANDONMENTS INDICATED OR NOT INDICATED ON THIS PLAN. AT THE CLOSE OF THE PROJECT, DEVELOPER'S ENGINEER MUST PLOT ACTUAL FIELD CONDITIONS ON PROPOSED PLANS AND SUBMIT TO THE DISTRICT.

SHEET INDEX

SHEET 1	TITLE SHEET
SHEET 2	PUBLIC WATER PLAN
SHEET 3	CONSTRUCTION DETAILS

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue,
Suite 100
Irvine, California 92617

AMG & ASSOCIATESS
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

Underground Service Alert
Call: TOLL FREE
811
TWO WORKING DAYS BEFORE YOU DIG

RANCHO CUCAMONGA FIRE DISTRICT

APPROVED DATE: _____

INSPECTOR, RANCHO CUCAMONGA FIRE DISTRICT

RANCHO CUCAMONGA FIRE PROTECTION DISTRICT

APPROVAL IS GRANTED FOR THE UNDERGROUND PUBLIC WATER MAINS, HYDRANTS, AND FIRE SERVICES ONLY. APPROVAL DOES NOT INCLUDE ANY ONSITE PRIVATE SPRINKLER PIPING OR APPURTENANCES.

REV.	DESCRIPTION	DATE	APP'D

BENCH MARK:
ELEVATIONS SHOWN HEREON ARE BASED ON THE CITY OF RANCHO CUCAMONGA BENCH MARK "10039", BEING A 2" BRASS DISC IN CONC CURB STAMPED "CITY OF RANCHO CUCAMONGA BM 10039 1987" AT NW CORNER OF FOOTHILL BLVD AND HAVEN AVE, 1' NORTH OF BCR AT S'LY END OF CATCH BASIN. ELEV = 1208.173'.

PLANS PREPARED UNDER SUPERVISION OF
Kathereen M. Shinkai
KATHEREEN M. SHINKAI — 10/06/2023 DATE
R.C.E. NO. 68369 EXP. DATE 09/30/2025

REGISTERED PROFESSIONAL ENGINEER — KATHEREEN M. SHINKAI — R.C.E. 68369 EXP. 9-30-25 — STATE OF CALIFORNIA — CIVIL

DATE APPROVED: _____
TUAN TRUONG, PE
ENGINEERING MANAGER
CUCAMONGA VALLEY WATER DISTRICT

Cucamonga Valley Water District
10440 ASHFORD STREET,
RANCHO CUCAMONGA, CA 91729 (909) 987-2591

DESIGNED BY:	DRAWN BY:	CHECKED BY:
AT	AT	KS
SCALE:	WORK ORDER NO.:	ATLAS:
N/A	DP _____	____

CUCAMONGA VALLEY WATER DISTRICT
PM 15476
9/11 MEMORIAL PARK
PUBLIC WATER PLANS

CVWD USE ONLY

SHT. 1 OF 3

WATER CONSTRUCTION NOTES:

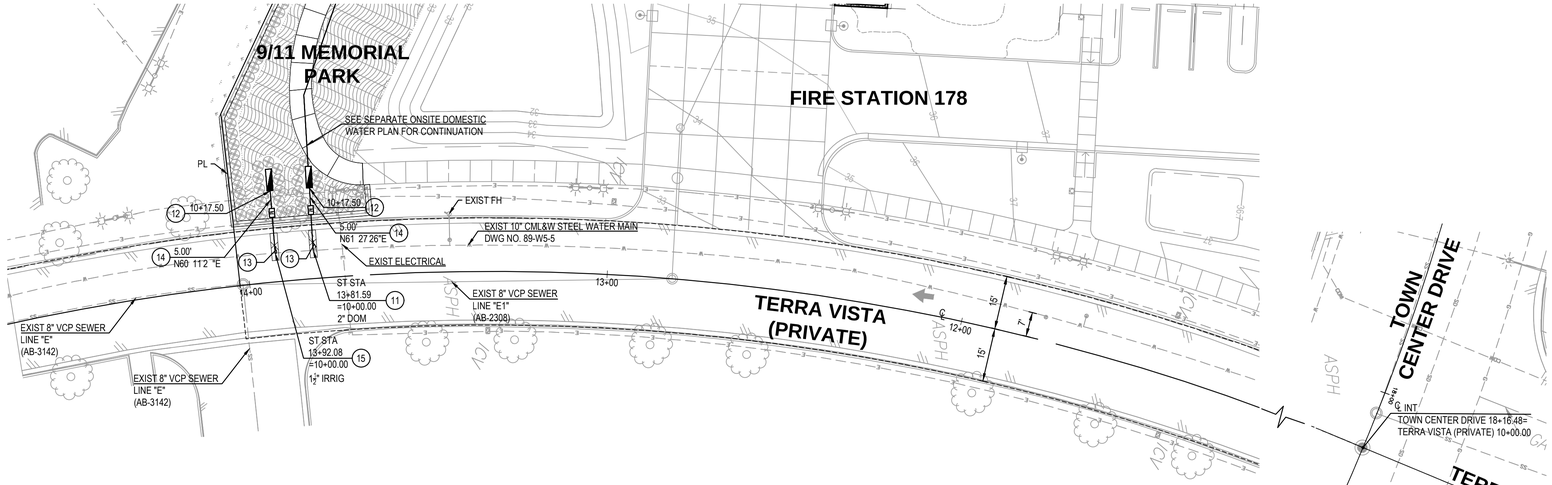
(11) INSTALL 2" SERVICE LINE WITH 2" DOMESTIC METER PER CUCAMONGA VALLEY WATER DISTRICT STANDARD DRAWING 103.

(12) INSTALL BACKFLOW DEVICE (SAME SIZE AS METER) PER CUCAMONGA VALLEY WATER DISTRICT STANDARD DRAWING 111.

(13) CONSTRUCT TYPICAL TRENCH SECTION PER CUCAMONGA VALLEY WATER DISTRICT STANDARD DRAWING 301.

(14) SAWCUT, REMOVE AND REPLACE EXISTING AC PAVEMENT (WHERE APPLICABLE). CONSTRUCT TRENCH RESTORATION PER CITY OF RANCHO CUCAMONGA STANDARD DRAWING NO. 120.

(15) INSTALL 2" SERVICE LINE WITH 1½" LANDSCAPE METER PER CUCAMONGA VALLEY WATER DISTRICT STANDARD DRAWING 103.



20 10 0 20 40

SCALE IN FEET
1 inch = 20 ft.

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue,
Suite 100
Irvine, California 92617

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

Underground Service Alert
Call: TOLL FREE
811
TWO WORKING DAYS BEFORE YOU DIG

REV.	DESCRIPTION	DATE	APP'D

BENCH MARK:
ELEVATIONS SHOWN HEREON ARE BASED ON THE CITY OF RANCHO CUCAMONGA BENCH MARK 1003 , BEING A 2 BRASS DISC IN CONC CURB STAMPED CITY OF RANCHO CUCAMONGA BM 1003 1 7 AT NW CORNER OF FOOTHILL BLVD AND HAVEN AVE, 1' NORTH OF BCR AT S'LY END OF CATCH BASIN. ELEV = 1208.173'.

PLANS PREPARED UNDER SUPERVISION OF
KATHEREEN M. SHINKAI — 10/06/2023 DATE
R.C.E. NO. 68369 EXP. DATE 09/30/2025

REGISTERED PROFESSIONAL ENGINEER KATHEREEN M. SHINKAI R.C.E. 68369 EXP. 9-30-25 CIVIL STATE OF CALIFORNIA

DATE APPROVED:
TUAN TRUONG, PE
ENGINEERING MANAGER
CUCAMONGA VALLEY WATER DISTRICT

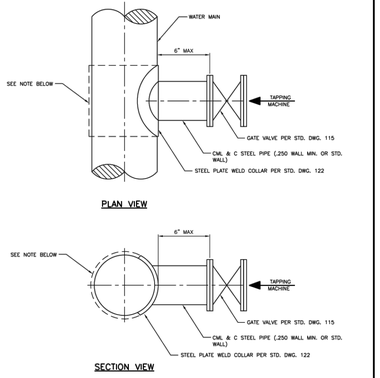
Cucamonga Valley Water District
10440 ASHFORD STREET,
RANCHO CUCAMONGA, CA 91729 (909) 987-2591

DESIGNED BY:	DRAWN BY:	CHECKED BY:
AT	AT	KS
SCALE:	WORK ORDER NO.:	ATLAS:
1"=20'	DP _____	_____

CUCAMONGA VALLEY WATER DISTRICT
PM 15476
9/11 MEMORIAL PARK
PUBLIC WATER PLANS

CVWD USE ONLY

SHT. 2 OF 3



PLAN VIEW

SECTION VIEW

NOTE:

1. HOT TAPS OF THE SAME SIZE AS THAT OF THE WATER MAIN: A FULL WRAP STEEL PLATE WELD SLEEVE WILL BE REQUIRED AROUND THE WATER MAIN PER STD. DWG. 122.

REV.	DESCRIPTION	DATE	APP'D

Cucamonga Valley Water District

HOT TAP DETAIL

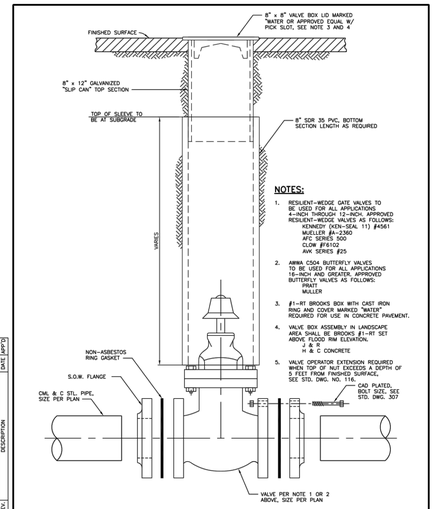
Cucamonga Valley Water District — ENGINEERING DEPARTMENT 10440 ASHFORD STREET, RANCHO CUCAMONGA, CA 91729 (909) 987-2591

APPROVED BY: JOHN SCHAPER P.E., DIRECTOR OF OPERATIONS & ENGINEERING — DATE 6-11-09

STD. DWG. 123

SHT. 1 OF 1

d:\cad\cvwd cadd drawings\cvwd std dwg\dwg\hot\cvwd_std_123



NOTES:

1. RESILIENT-WEDGE GATE VALVES TO BE USED FOR ALL APPLICATIONS 4-INCH THROUGH 12-INCH. APPROVED RESILIENT-WEDGE GATE VALVES AS FOLLOWS:
   - KENNEDY (KEN-SEAL 111) #4561
   - MUELLER (A-2360)
   - AFC SERIES 500
   - CLOW (F6102
   - AVK SERIES 025
2. AMWA C504 BUTTERFLY VALVES TO BE USED FOR ALL APPLICATIONS 16-INCH AND GREATER. APPROVED BUTTERFLY VALVES AS FOLLOWS:
   - PRATT
   - MUELLER
3. #1-RT BROOKS BOX WITH CAST IRON RING AND COVER MARKED "WATER" REQUIRED FOR USE IN CONCRETE PAVEMENT.
4. VALVE BOX ASSEMBLY IN LANDSCAPE AREA SHALL BE BROOKS #1-RT SET ABOVE FLOOD RIM ELEVATION.
   - + 2 C CONCRETE
5. VALVE OPERATOR EXTENSION REQUIRED WHEN TOP OF NUT EXCEEDS A DEPTH OF 3 FEET FROM FINISH SURFACE. SEE STD. DWG. NO. 116.
   - CAD PLATED, BOLT SIZE, SEE STD. DWG. 307

REV.	DESCRIPTION	DATE	APP'D

Cucamonga Valley Water District

VALVE AND BOX ASSEMBLY

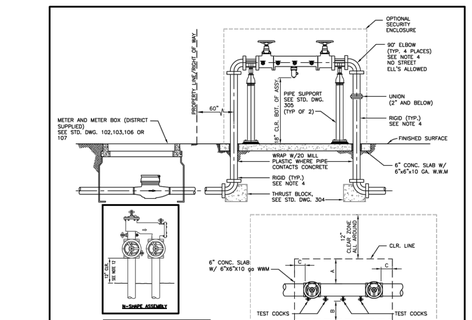
Cucamonga Valley Water District — ENGINEERING DEPARTMENT 10440 ASHFORD STREET, RANCHO CUCAMONGA, CA 91729 (909) 987-2591

APPROVED BY: JOHN SCHAPER P.E., DIRECTOR OF OPERATIONS & ENGINEERING — DATE 6-11-09

STD. DWG. 115

SHT. 1 OF 1

d:\cad\cvwd cadd drawings\cvwd std dwg\dwg\hot\cvwd_std_115



CLEARANCE			
SIZE	A	B	C
¾" – 2"	18"	18"	12"
2½" & UP	24"	24"	12"

NOTES:

1. LOCATION, TYPE, AND INSTALLATION OF BACKFLOW ASSEMBLY SHALL BE APPROVED BY THE DISTRICTS INSPECTOR.
2. DISTRICT TO INSTALL METER, DEVELOPER TO INSTALL ALL OTHER REQUIRED MATERIAL.
3. NO CONNECTIONS OR TEES SHALL BE ALLOWED BETWEEN METER AND ASSEMBLY.
4. ALL PIPE AND RELATED FITTINGS SHALL BE AS FOLLOWS:
   - A. 3-INCH AND BELOW – COPPER TYPE K RIGID OR, STEEL
   - B. 4– INCH AND ABOVE – SCHEDULE 40 CEMENT LINED STANDARD STEEL, CML & C OR DUCTILE IRON.
5. ALL ABOVE GROUND APPURTENANCES SHALL BE PAINTED AS FOLLOWS:
   - A. STEEL AND DUCTILE IRON PIPE, ONE COAT OF PRIMER AND 2 COATS OF RUSTOLEUM–ALMOND.
6. RESILIENT SEATED SHUT–OFF VALVES AND TEST COCKS REQUIRED.
7. PRESSURE REGULATOR TO BE INSTALLED UPSTREAM OF BACKFLOW PREVENTION IF REQUIRED BY PLUMBING CODE.
   - A. IF PRESSURE REGULATION IS REQUIRED THEN DELETE DOWNSTREAM UNION IF APPLICABLE.
   - B. BACKFLOW PREVENTORS TO BE SAME SIZE AS METER.
9. ALL ASSEMBLIES SHALL BE USC, FCCⅈHR APPROVED.
10. PIPE SUPPORT AS REQUIRED ON 3" AND ABOVE PER CVWD STD. DWG. 305.
11. ALL PIPING BETWEEN METER AND BACKFLOW ASSEMBLY TO BE FLUSHED BEFORE BACKFLOW IS INSTALLED AND MUST BE WITNESSED BY DISTRICT INSPECTOR.
12. N–SHAPE ASSEMBLY 12" CLR. TO BOTTOM OF HAND WHEEL.

REV.	DESCRIPTION	DATE	APP'D

Cucamonga Valley Water District

TYPICAL BACKFLOW INSTALLATION FOR DOMESTIC AND LANDSCAPE USE

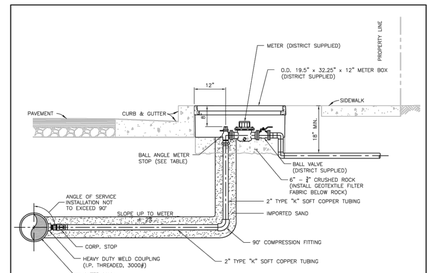
Cucamonga Valley Water District — ENGINEERING DEPARTMENT 10440 ASHFORD STREET, RANCHO CUCAMONGA, CA 91729 (909) 987-2591

APPROVED BY: JOHN SCHAPER P.E., DIRECTOR OF OPERATIONS & ENGINEERING — DATE 6-11-09

STD. DWG. 111

SHT. 1 OF 1

d:\cad\cvwd cadd drawings\cvwd std dwg\dwg\hot\cvwd_std_111



1½" AND 2" METERS

NOTES:

1. METER LOCATIONS AS SHOWN ON PLANS.
2. ROLLED CURB METER BEHIND SIDEWALK.
3. BALL ANGLE METER STOP SHALL BE USED FOR 1 ½" & 2" METERS.
4. 15% SILVER SOLDER OR APPROVED EQUAL.
5. OLD–STYLE PACK JOINT NOT ACCEPTED.
6. ¾" CRUSHED ROCK BASE.
7. ALL CORPORATION BALL VALVES AND ANGLE METER BALL VALVES SHALL HAVE A GRIP JOINT

SERVICE INFORMATION TABLE

	MUELLER		JONES			
	BALL CORP. STOP	BALL ANGLE METER STOP	BALL CORP. STOP	BALL ANGLE METER STOP	BALL CORP. STOP	BALL ANGLE METER STOP	METER BUSHING
1 -1½"	B25028N	B24276N	E1935SG	E1975MSG			
2"							

REV.	DESCRIPTION	DATE	APP'D

Cucamonga Valley Water District

TYPICAL WATER SERVICE 1 1/2-INCH AND 2-INCH W/ FIXED NETWORK ENDPOINT

Cucamonga Valley Water District — ENGINEERING DEPARTMENT 10440 ASHFORD STREET, RANCHO CUCAMONGA, CA 91729 (909) 987-2591

APPROVED BY: TUAN TRUONG, P.E., ENGINEERING MANAGER — DATE 10-04-22

STD. DWG. 103

SHT. 1 OF 1

\\cvwd1\engineering\cadd\cvwd cadd drawings\cvwd std dwg\dwg\hot\cvwd_std_103

TEMPORARY STEEL PLATE BRIDGING-WITH A NON-SKID SURFACE

WHEN BACKFILLING OPERATIONS OF AN EXCAVATION IN THE ROADWAY INCLUDING BIKE LANES AND PARKING STRIP, WHETHER TRANSVERSE OR LONGITUDINAL, CANNOT BE PROPERLY COMPLETED WITHIN A WORK DAY, STEEL PLATE BRIDGING WITH A NON-SKID SURFACE AND SHORING SHALL BE REQUIRED TO PRESERVE UNOBSTRUCTED TRAFFIC FLOW. IN SUCH CASES, THE FOLLOWING CONDITIONS SHALL APPLY:

1. STEEL PLATES USED FOR BRIDGING MUST EXTEND A MINIMUM OF 12" BEYOND THE EDGES OF THE TRENCH.
2. STEEL PLATE BRIDGING SHALL BE INSTALLED TO OPERATE WITH MINIMUM NOISE.
3. THE TRENCH SHALL BE ADEQUATELY SHORED TO SUPPORT THE BRIDGING AND TRAFFIC LOADS.
4. TEMPORARY PAVING WITH COLD ASPHALT CONCRETE SHALL BE USED TO FEATHER THE EDGES OF THE PLATES (10:1/H-V MIN), IF PLATE INSTALLATION BY METHOD (2) DESCRIBED BELOW, IS USED.
5. BRIDGING SHALL BE SECURED AGAINST DISPLACEMENT BY USING ADJUSTABLE CLEATS, SHIMS, OR OTHER DEVICES.
6. "ROAD CONSTRUCTION AHEAD" (W20-1) SIGN SHALL BE USED 1,000' IN ADVANCE OF STEEL PLATES.
7. "STEEL PLATES AHEAD" (TYPE P) SIGN SHALL BE PLACED 500' IN ADVANCE OF STEEL PLATES.

AS REQUIRED BY THE CITY, STEEL PLATE BRIDGING AND SHORING SHALL BE INSTALLED USING EITHER METHOD (1) OR (2):

METHOD 1 FOR SPEEDS 45 MPH OR GREATER:

A. THE PAVEMENT SHALL BE COLD PLANED TO A DEPTH EQUAL TO THE THICKNESS OF THE PLATE AND TO A WIDTH AND LENGTH EQUAL TO THE DIMENSIONS OF THE PLATE.
B. APPROACH PLATE(S) AND ENDING PLATE (IF LONGITUDINAL PLACEMENT) SHALL BE ATTACHED TO THE ROADWAY BY A MINIMUM OF TWO (2) DOWELS PRE-DRILLED INTO THE CORNERS OF THE PLATE AND DRILLED 2" INTO THE PAVEMENT. SUBSEQUENT PLATES ARE TO BE BUTTED AND TACK WELDED TO EACH OTHER.

METHOD 2 FOR SPEEDS LESS THAN 45 MPH:

A. APPROACH PLATE(S) AND ENDING PLATE (IF LONGITUDINAL PLACEMENT) SHALL BE ATTACHED TO THE ROADWAY BY A MINIMUM OF TWO (2) DOWELS PRE-DRILLED INTO THE CORNERS OF THE PLATE AND DRILLED 2" INTO THE PAVEMENT.
B. SUBSEQUENT PLATES ARE TO BE BUTTED AND TACK WELDED TO EACH OTHER.
C. FINE GRADED ASPHALT CONCRETE SHALL BE COMPACTED TO FORM RAMPS, MAXIMUM SLOPE 8.5% WITH A MINIMUM 12" TAPER TO COVER ALL EDGES OF THE STEEL PLATES.
D. WHEN STEEL PLATES ARE REMOVED, THE DOWEL HOLES IN THE PAVEMENT SHALL BE BACKFILLED WITH EITHER GRADED FINES OF ASPHALT CONCRETE MIX, CONCRETE SLURRY, EPOXY OR AN EQUIVALENT THAT IS SATISFACTORY TO THE CITY'S REPRESENTATIVE.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF THE STEEL PLATES, SHORING, ASPHALT CONCRETE RAMPS, AND ENSURING THAT THEY MEET MINIMUM SPECIFICATIONS. UNLESS NOTED OR APPROVED OTHERWISE, STEEL PLATE BRIDGING SHALL NOT EXCEED FOUR (4) CONSECUTIVE WORKING DAYS IN ANY GIVEN WEEK AND SHOULD NOT BE LEFT THROUGH THE WEEKEND. BACKFILLING OF EXCAVATIONS SHALL BE COVERED WITH A MINIMUM 3" TEMPORARY LAYER OF COLD ASPHALT CONCRETE. THE FOLLOWING TABLE SHOWS THE MINIMUM THICKNESS OF STEEL PLATE BRIDGING REQUIRED FOR A GIVEN TRENCH WIDTH (A-36 GRADE STEEL, DESIGNED FOR HS20-44 TRUCK LOADING).

TRENCH WIDTH	MINIMUM PLATE THICKNESS
10 INCHES	1/2 INCH
1 FOOT 11 INCHES	3/4 INCH
2 FEET 7 INCHES	7/8 INCH
3 FEET 5 INCHES	1 INCH
5 FEET 3 INCHES	1 ¼ INCH

REGISTERED PROFESSIONAL ENGINEER — JASON C. WELDAY — No. 67514 — CIVIL — STATE OF CALIFORNIA

CITY OF RANCHO CUCAMONGA

TRENCH REPAIR

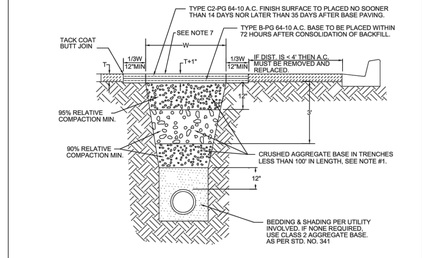
USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

APPROVED BY: JASON C. WELDAY, CITY ENGINEER — R.C.E. 67514 — DATE 5/21/2019

STD. PLAN NO. 120

SHEET 2 OF 2

DATE OF LAST REVISION 05/20/2019



NOTES:

1. ALL TRENCHES 100' IN LENGTH OR LARGER SHALL BE BACKFILLED AND CONSOLIDATED PER SECTION 306-1.3.1 THRU 306-1.3.4 OF THE STANDARD SPECIFICATIONS.
2. SPREAD BOXES MAY BE EMPLOYED ON TRENCH PAVING JOBS LESS THAN 500 LINEAR FEET.
3. ALL JOINTS SHALL BE VERTICAL BUTT JOINTS, LAP OR FEATHERED JOINTS ARE NOT ACCEPTABLE.
4. UNLESS OTHERWISE INSTRUCTED BY THE CITY ENGINEER, TRENCH PATCH SHALL BE STRAIGHT GRADE ACROSS WIDTH, AND SHALL NOT BE CROWDED AT CENTER.
5. PRIOR TO PLACEMENT OF A.C. PAVEMENT, EDGE SHALL BE CUT TO A CLEAN VERTICAL AND STRAIGHT EDGE WITH TACK COAT ON FACE OF CUT.
6. THE ENTIRE TRAVELED LANE, 12' MIN. SHALL BE OVERLAYED WITH 0.10' MIN. C2-PG 64-10 A.C. USING A SELF PROPELLED PAVING MACHINE (BARBER, GREEN, BLAW KNOX OR EQUAL) FOR ALL TRENCHES 500' IN LENGTH OR LONGER.
7. PERMANENT A.C. PATH, WHICH SHALL BE A MINIMUM 0.25' THICK OR 0.10' THICKER THAN EXISTING - WHICHEVER IS GREATER - AS DIRECTED BY THE CITY REPRESENTATIVE IN THE FIELD.

REGISTERED PROFESSIONAL ENGINEER — JASON C. WELDAY — No. 67514 — CIVIL — STATE OF CALIFORNIA

CITY OF RANCHO CUCAMONGA

TRENCH REPAIR

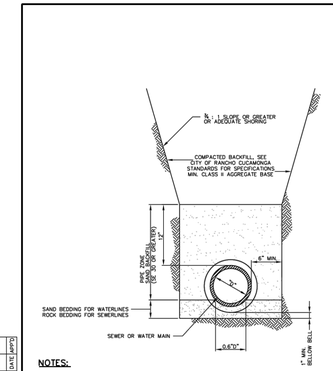
USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

APPROVED BY: JASON C. WELDAY, CITY ENGINEER — R.C.E. 67514 — DATE 5/21/2019

STD. PLAN NO. 120

SHEET 1 OF 2

DATE OF LAST REVISION 05/20/2019



NOTES:

1. TRENCH WIDTH SHALL BE CONTROLLED TO TOP OF PIPE ZONE.
2. TRENCH DEPTHS OF GREATER THAN 5' SHALL HAVE ADEQUATE SHORING.
3. COMPACTION SHALL BE 90% IN ALL ZONES UNLESS OTHERWISE SPECIFIED.
4. TRENCH STABILITY TO CONFORM TO CAL–OSHA REQUIREMENTS.

REV.	DESCRIPTION	DATE	APP'D

Cucamonga Valley Water District

TYPICAL TRENCH SECTION

Cucamonga Valley Water District — ENGINEERING DEPARTMENT 10440 ASHFORD STREET, RANCHO CUCAMONGA, CA 91729 (909) 987-2591

APPROVED BY: JOHN SCHAPER P.E., DIRECTOR OF OPERATIONS & ENGINEERING — DATE 6-11-09

STD. DWG. 301

SHT. 1 OF 1

d:\cad\cvwd cadd drawings\cvwd std dwg\dwg\shp\cvwd_std_301

Underground Service Alert

Call: TOLL FREE

811

TWO WORKING DAYS BEFORE YOU DIG

REV.	DESCRIPTION	DATE	APP'D

BENCH MARK:
ELEVATIONS SHOWN HEREON ARE BASED ON THE CITY OF RANCHO CUCAMONGA BENCH MARK "10039", BEING A 2" BRASS DISC IN CONC CURB STAMPED "CITY OF RANCHO CUCAMONGA BM 10039 1987" AT NE CORNER OF FOOTHILL BLVD AND HAVEN AVE, 1±NORTH OF BCR AT SLY END OF CATCH BASIN. ELEV = 1201.173±

PLANS PREPARED UNDER SUPERVISION OF

KATHEREEN M. SHINKAI — DATE 10/06/2023

R.C.E. NO. 68369 — EXP. DATE 09/30/2025

REGISTERED PROFESSIONAL ENGINEER — KATHEREEN M. SHINKAI — R.C.E. 68369 — EXP. 9-30-25 — CIVIL — STATE OF CALIFORNIA

DATE APPROVED:

TUAN TRUONG, PE
ENGINEERING MANAGER
CUCAMONGA VALLEY WATER DISTRICT

Cucamonga Valley® Water District

10440 ASHFORD STREET,
RANCHO CUCAMONGA, CA 91729 (909) 987-2591

DESIGNED BY:	DRAWN BY:	CHECKED BY:
AT	AT	KS
SCALE:	WORK ORDER NO.:	ATLAS:
N/A	DP _____	_____

CUCAMONGA VALLEY WATER DISTRICT

PM 1547□

9/11 MEMORIAL PARK

CONSTRUCTION DETAILS

CVWD USE ONLY

SHT. 3 OF 3

AMG LPA

DESIGN-BUILD TEAM

LPA, INC.

ARCHITECTURE ENGINEERING INTERIORS LANDSCAPE ARCHITECTURE PLANNING

949-261-1001 Office

949-260-1190 Fax

LPADesignStudios.com

5301 California Avenue,
Suite 100
Irvine, California 92617

AMG & ASSOCIATES

661-251-7401 Office

AMGAssociates.com

26535 Summit Circle
Santa Clarita, CA 91350

ABBREVIATIONS

&	AND
∠	ANGLE
@	AT
℄	CENTERLINE
ϕ	DIAMETER OR ROUND
#	POUND OR NUMBER
ADJ.	ADJACENT
AGGR.	AGGREGATE
AL.	ALUMINUM
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
A.C.	ASPHALT
ACC.	ACCESSIBLE
B.C.R.	BEGINNING OF CURVE RADIUS
B.O.C.	BACK OF CURB
B.O.W.	BOTTOM OF WALL
B.O.S.	BOTTOM OF SLOPE
BLDG.	BUILDING
BLK.	BLOCK
C.E.	CIVIL ENGINEER
C.I.P.	CAST IN PLACE
CLKG.	CAULKING
CMU.	CONCRETE MASONRY UNIT
CONC.	CONCRETE
CONSTR.	CONSTRUCTION
CONT.	CONTINUOUS
CTR.	CENTER
D.A.	DISABLED ACCESS
DET.	DETAIL
DIA.	DIAMETER
DIM.	DIMENSION
DN.	DOWN
DWGS	DRAWINGS
E.J.	EXPANSION JOINT
EL.	ELEVATION
ELEC.	ELECTRICAL
EQ.	EQUAL
EXP.	EXPANSION
EXT.	EXTERIOR
F.G.	FINISH GRADE
F.S.	FINISH SURFACE
F.O.W.	FACE OF WALL
F.O.B.	FACE OF BUILDING
F.O.C.	FACE OF CURB
GA.	GAUGE
GALV.	GALVANIZED
GND.	GROUND
GR.	GRADE
HDR	HEADER
HT.	HEIGHT
LT.	LIGHT
MAX.	MAXIMUM
MET.	METAL
MFR.	MANUFACTURER
MIN.	MINIMUM
MTD.	MOUNTED
MTL.	MATERIAL
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.C.E.W.	ON CENTER EACH WAY
O.D.	OUTSIDE DIAMETER (DIM.)
PA	PLANTING AREA
PRCST.	PRECAST
P.I.P.	POURED IN PLACE
P.O.T.	POINT OF TANGENCY
P.T.D.F.	PRESSURE TREATED DOUGLAS FIR
QTY	QUANTITY
R.	RISER
RAD.	RADIUS
REINF.	REINFORCED
REQ.	REQUIRED
SCHED.	SCHEDULE
SHT.	SHEET
SPEC.	SPECIFICATION
S.S.	STAINLESS STEEL
STD.	STANDARD
STRL.	STRUCTURAL
T.	TREAD
T.C.	TOP OF CURB
T.O.S.	TOP OF SLOPE
T.O.W.	TOP OF WALL
TYP.	TYPICAL
TBS.	TO BE SELECTED
VEG.	VEGETATION
VERT.	VERTICAL
W/	WITH
W/O	WITHOUT

PLANTING NOTES

1. REFER TO CIVIL ENGINEER'S UTILITY AND GRADING PLANS FOR UTILITY LOCATIONS, TREE SUB-DRAINAGE STUBOUTS (IF REQUIRED), AND FINAL GRADING. IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE LANDSCAPE ARCHITECT'S PLANS, THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT FOR DIRECTION AS TO HOW TO PROCEED.
2. VERIFY LOCATIONS OF ALL PERTINENT SITE IMPROVEMENTS INSTALLED AS PART OF OTHER PLANS. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS CONTACT THE LANDSCAPE ARCHITECT FOR INSTRUCTION PRIOR TO COMMENCING WORK.
3. EXACT LOCATIONS OF PLANT MATERIALS SHALL BE REVIEWED BY THE LANDSCAPE ARCHITECT IN THE FIELD PRIOR TO INSTALLATION. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO ADJUST PLANTS TO EXACT LOCATION IN FIELD.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL PLANT COUNTS AND SQUARE FOOTAGES. QUANTITIES SHOWN ON PLANS TAKE PRECEDENCE OVER WRITTEN QUANTITIES IN "PLANTING LEGEND."
5. PROVIDE MATCHING FORMS AND SIZES FOR ALL PLANT MATERIALS WITHIN EACH SPECIES AND SIZE DESIGNATED ON THE DRAWINGS.
6. PRUNE NEWLY PLANTED TREES ONLY AS DIRECTED BY THE LANDSCAPE ARCHITECT.
7. ALL SHRUBS TO BE ALIGNED AND EQUALLY SPACED IN ALL DIRECTIONS AS DESIGNATED PER THESE NOTES AND DRAWINGS.
8. ALL TREES IN ROWS TO BE ALIGNED.
9. TREES SHALL BEAR SAME RELATION TO FINISH GRADE AS AT PLACE OF GROWTH.
10. FINISH GRADES OF ALL TURF AREAS SHALL BE (1") BELOW ADJACENT CURB OR PAVEMENT. FINISH GRADES OF ALL SHRUB AREAS SHALL BE (2-1/2") BELOW ADJACENT CURB, PAVEMENT, OR HEADER.
11. CONTRACTOR SHALL SUBMIT FOR APPROVAL COLOR PHOTOS OF ALL BOXED TREES, AND A REPRESENTATIVE COLOR PHOTO OF ALL SHRUBS, GROUNDCOVER, AND VINES. TREE PHOTOS SHALL INCLUDE A PERSON FOR SCALE PURPOSES. ALL PLANT MATERIAL SHALL BE OF A QUALITY AS DETERMINED BY THE LANDSCAPE ARCHITECT. MATERIAL FOUND UNSUITABLE FOR THE DESIGN OR SPECIFICATION INTENT WILL BE REJECTED.
12. PROVIDE LANDSCAPE EDGING (HDR) AS DIVIDER BETWEEN ALL TURF AND SHRUB/GROUNDCOVER AREAS IN ADDITION TO AREAS INDICATED ON THE DRAWINGS.
13. PROVIDE A (3") LAYER OF MULCH AT PROPOSED TREE AND SHRUB PLANTING AREAS.
14. INSTALL JUTE MESH ON ALL SLOPES (3:1) OR GREATER. INSTALLATION METHOD PER MANUFACTURER'S RECOMMENDATION.
15. CONTRACTOR SHALL CONDUCT AGRICULTURAL SUITABILITY AND FERTILITY SOILS TESTING PER SOIL PREPARATION SPECIFICATION. ANALYSIS SHALL INCLUDE RECOMMENDATIONS FOR POST MAINTENANCE FERTILIZATION. SUBMIT SOILS ANALYSIS AND SAMPLES OF AMENDMENTS TO LANDSCAPE ARCHITECT FOR REVIEW PRIOR TO SOIL PREPARATION.
16. PROVIDE ROOT BARRIERS IN ADDITION TO THOSE INDICATED ON THE PLANS FOR ALL TREES WITHIN 5' OF ANY HARDSCAPE.
17. PLANT ALL TREES A MINIMUM OF 5' FROM ANY DRAIN LINES. THE LANDSCAPE CONTRACTOR SHALL VERIFY LOCATION OF ALL DRAIN LINES PRIOR TO COMMENCING WORK.
18. TREES ARE TO BE A MINIMUM OF 3' AWAY FROM ANY HARDSCAPE SUCH AS CURBS, WALKS, ETC.
19. LANDSCAPE MAINTENANCE PERIOD IS 90 DAYS.

LAYOUT AND MATERIALS NOTES

1. THE CONTRACTOR SHALL LAYOUT AND FIELD VERIFY ALL DIMENSIONS OF DRIVEWAYS, PLANTERS, WALKS, SLOPES, AND RELATED WORK PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE.
2. VERIFY LOCATIONS OF ALL SITE IMPROVEMENTS INSTALLED AS PART OF OTHER PLANS. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS CONTACT THE OWNER'S AUTHORIZED REPRESENTATIVE FOR INSTRUCTIONS PRIOR TO BEGINNING WORK.
3. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE.
4. THIS DRAWING INCLUDES THE LOCATIONS OF AREA DRAINS FOR REFERENCE. REFER TO RELATED CIVIL ENGINEERING DRAWINGS FOR CONSTRUCTION DETAILS AND UTILITY CONNECTIONS.
5. REFER TO ELECTRICAL ENGINEERING DRAWINGS FOR LIGHT FIXTURE SCHEDULE AND CIRCUITRY AS NECESSARY.
6. REFER TO SOIL ENGINEER'S GEOTECHNICAL REPORT FOR SUB-BASE MATERIALS AND COMPACTION.
7. WHERE DIMENSIONS ARE CALLED AS "EQUAL," ALL REFERENCED ITEMS SHALL BE SPACED EQUALLY, MEASURED TO THEIR CENTERLINES.
8. ALL MEASUREMENTS ARE TO FACE OF WALL, CURB, OR OTHER FIXED SITE IMPROVEMENT UNLESS OTHERWISE NOTED. DIMENSIONS TO CENTERLINES AS INDICATED.
9. INSTALL ALL INTERSECTING ELEMENTS AT 90 DEGREES TO EACH OTHER UNLESS OTHERWISE NOTED.
10. ALL DRAINS/BASINS SHOULD HAVE ATRIUM TYPE GRATES WITHIN SHRUB/GROUNDCOVER AREAS AND FLAT TYPE GRATES WITHIN TURF AREAS.

MANUFACTURER'S LIST

PRODUCT:	CONTACT INFORMATION:
1. ROOT BARRIER	DEEP ROOT 81 LANGTON STREET SUITE 4 SAN FRANCISCO, CA 94010 (800) 458-7668 CONTACT: PETE VOSKES
2. FILTER FABRIC	MIRAFI 22672 LAMBERT STREET SUITE 602 LAKE FOREST, CA (800) 423-9923 CONTACT: JIM OR JOSH
3. ROCK MULCH / DECOMPOSED GRAVEL	SOUTHWEST BOULDER & STONE DECOMPOSED GRANITE 2418 CYPRESS WAY FULLERTON, CA 92831
4. PAVER	ORCO PAVINGSTONES 11100 BEACH BLVD STANTON, CALIFORNIA 90680 (714) 527-2239

SITE FURNISHINGS LEGEND

SYM.	DESC.	MANUF.	MODEL #	COLOR	FINISH/PTRN.	QTY.	DTL
	OUTDOOR DRINKING FOUNTAIN	MOST DEPENDABLE FOUNTAINS	10150 SMSS W/ TEMPLATE 10 NS	GREEN	STAINLESS STEEL	1	17/ L5.01
	STEEL BENCH	CITY OF RANCHO CUCAMONGA	CUSTOM	CARDINAL KW BRONZE	POWDER COATED	11	03/ L5.05
	MARWOOD BACKED BENCH	STREETFORMS	SF-B7131	NATURAL	CONCRETE: ASH WOOD: JATOBA	6	17/ L5.05
	STANDARD PICNIC TABLE	QCP CORP	QLBT96PT	NATURAL	CRAFTMAN'S ETCH	2	PER MANUF.
	ADA PICNIC TABLE	QCP CORP	QLBT102PTADA	NATURAL	CRAFTMAN'S ETCH	1	PER MANUF.
T	STEEL TRASH RECEPTACLE	CITY OF RANCHO CUCAMONGA	CUSTOM	BRONZE	POWDER COATED	9	03/ L5.05

LANDSCAPE GRADING AND DRAINAGE

1. REFER TO CIVIL ENGINEER'S GRADING PLANS FOR SITE GRADING, DRAINAGE, AND UTILITY LOCATIONS. IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE LANDSCAPE ARCHITECT'S PLANS, THE CONTRACTOR SHALL CONTACT THE OWNER'S AUTHORIZED REPRESENTATIVE AND LANDSCAPE ARCHITECT FOR DIRECTION AS TO HOW TO PROCEED.
2. REFER TO CIVIL ENGINEER'S DRAWINGS FOR SUB-DRAINAGE POINT OF CONNECTION TO STORM DRAIN.
3. THE CONTRACTOR SHALL REQUEST OBSERVATION AS REQUIRED 48 HOURS IN ADVANCE OF PERFORMING WORK.
4. ALL GRADING OPERATIONS SHALL CONFORM TO CHAPTER 20 OF THE UNIFORM BUILDING CODE.
5. FIELD VERIFY EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION AND ELEVATION IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION.
6. NO CHANGE IN CONTRACT PRICE WILL BE ALLOWED FOR ACTUAL OR CLAIMED DISCREPANCIES BETWEEN EXISTING GRADE AND THOSE SHOWN ON THE PLANS AFTER THE CONTRACTOR HAS ACCEPTED EXISTING GRADES AND MOVED ONTO THE SITE.
7. ALL PROPOSED GRADES ARE TO MEET AND BLEND IN WITH EXISTING GRADING AT PROJECT LIMIT AND EXISTING SIDEWALK. PRECISE ELEVATIONS INDICATED ON PLANS TO BE VERIFIED IN FIELD TO AS-BUILT CONDITION.
8. THE DEBRIS CREATED BY LANDSCAPE GRADING OPERATIONS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF OFF-SITE.
9. FINAL LANDSCAPE GRADING SHALL BE REVIEWED BY THE LANDSCAPE ARCHITECT IN THE FIELD PRIOR TO INSTALLATION OF PLANTING.

City of Rancho Cucamonga
Planning Department
APPROVED
Tabe Vanderzwaag
Aug 7, 2024
Please contact the Planning Department at (909) 477-2750 for Final Planning Inspection

SHEET INDEX

LANDSCAPE

L0.01	LANDSCAPE NOTES AND SCHEDULES
L1.01	MATERIALS PLAN
L2.01	LAYOUT PLAN
L5.01	CONSTRUCTION DETAILS
L5.02	CONSTRUCTION DETAILS
L5.03	CONSTRUCTION DETAILS
L5.04	CONSTRUCTION DETAILS
L5.05	CONSTRUCTION DETAILS
L5.06	CONSTRUCTION DETAILS
L6.01	IRRIGATION PLAN
L6.02	IRRIGATION LEGEND AND NOTES
L6.03	IRRIGATION DETAILS
L6.04	IRRIGATION DETAILS
L7.01	PLANTING PLAN
L7.02	PLANTING DETAILS

SCOPE OF WORK

THE SCOPE INCLUDES THE DEVELOPMENT OF A NEW MEMORIAL PARK. WORK WILL INCLUDE FINE GRADING, CONCRETE FLATWORK, DECOMPOSED GRANITE PAVING, ASPHALT PAVING AND STRIPING, STEEL OVERHEAD. SHADE CANOPY, ALL MEMORIAL ITEMS, LIGHTING, PLANTING, IRRIGATION, AND SITE FURNISHINGS.

GENERAL NOTES

1. THE CONTRACTOR AND SUB CONTRACTORS SHALL BE RESPONSIBLE FOR REVIEWING, UNDERSTANDING, AND FOLLOWING ALL GENERAL NOTES ON ALL SHEETS. ALL ITEMS STATED IN THE GENERAL NOTES SHOULD BE INCLUDED IN THE CONTRACTOR'S FINAL BID. ANY QUESTIONS REGARDING THE GENERAL NOTES SHOULD BE ADDRESSED BY MEANS OF AN RFI DURING THE BIDDING PHASE. ANY ITEMS THAT ARE NOT ACCOUNTED FOR AFTER THE PROJECT HAS BEEN AWARDED, WILL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
2. BASE INFORMATION INCLUDING THE LOCATION OF PROPERTY LINES, EASEMENTS, BUILDINGS, ROADS, AND CURBS HAVE BEEN TAKEN FROM THE CIVIL ENGINEER'S DRAWINGS. REFER TO CIVIL ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION.
3. REFER TO CIVIL ENGINEERING DRAWINGS FOR UTILITY INFORMATION INCLUDING STORM DRAIN, SEWER, WATER, ELECTRICAL, GAS, TELEPHONE, AND CABLE TV.
4. REFER TO CITY AND/OR COUNTY STANDARD PLANS AND SPECIFICATIONS WHERE APPLICABLE.
5. VERIFY SITE INFORMATION INCLUDING PROPERTY LINES, TOP AND BOTTOMS OF SLOPES, ROADWAY CURBS AND GUTTERS, UTILITIES, AND OTHER INFORMATION AFFECTING THE SCOPE OF WORK INCLUDED ON THESE DRAWINGS. IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE LANDSCAPE ARCHITECT'S PLANS, THE CONTRACTOR SHALL CONTACT THE OWNER'S AUTHORIZED REPRESENTATIVE AND THE LANDSCAPE ARCHITECT FOR DIRECTION ON HOW TO PROCEED.
6. EXCAVATION IN THE VICINITY OF UTILITIES AND EXISTING MATERIALS SHALL BE UNDERTAKEN WITH CARE. THE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK. ANY DAMAGE CAUSED BY ANY PERSON, VEHICLE, EQUIPMENT, OR TOOL RELATED TO THE EXECUTION OF THE CONTRACT SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE TO THE OWNER.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION REQUIRED TO ACCOMPLISH ALL CONSTRUCTION OPERATIONS. ALL PIPING, CONDUIT, SLEEVES, ETC. SHALL BE SET IN PLACE PRIOR TO INSTALLATION OF CONSTRUCTION ITEMS.
8. CONTRACTOR SHALL BE RESPONSIBLE TO CONSULT WITH THE SITE SUPERINTENDENT, APPROPRIATE AGENCIES, AND PLANS FOR THE LOCATIONS OF ALL UNDERGROUND UTILITIES, PIPES, AND STRUCTURES. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF SAID UTILITIES.
9. CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS, AREA DISCREPANCIES, AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATIONS.
10. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ANY EXISTING MATERIALS THAT ARE DAMAGED DURING CONSTRUCTION.
11. PRIOR TO INSTALLATION OF ANY CONSTRUCTION ITEMS FORMS WITH STEEL IN PLACE, AND COMPACTED SUB-GRADE COMPLETE, SHALL BE OBSERVED AND REVIEWED BY THE LANDSCAPE ARCHITECT.
12. ALL WALLS AND WALKS SHOULD HAVE SMOOTH, CONTINUOUS CURVES AS INDICATED ON PLANS.
13. ALL PROPERTY LINES, LOT LINES, AND TOP OF SLOPE LINES SHALL BE VERIFIED PRIOR TO COMMENCING WORK.
14. ALL ELECTRICAL JUNCTION BOXES FOR LIGHTS SHALL BE IN PLANTING AREAS AND THEIR LOCATIONS REVIEWED BY THE LANDSCAPE ARCHITECT. STAKE LOCATIONS PRIOR TO INSTALLATION.
15. SEE CIVIL ENGINEERING DRAWINGS FOR CURBS AND A/C PAVING.
16. REFER TO GRADING PLANS FOR ELEVATIONS AND LOCATION OF DRAINAGE STRUCTURES PRIOR TO INSTALLATION OF WALKS, FOOTINGS, AND OTHER STRUCTURES.
17. THE CONTRACTOR MUST FAMILIARIZE HIMSELF WITH THE IRRIGATION, GRADING AND PLANTING ON ADJACENT PROPERTIES. ANY DAMAGE OR ADJUSTMENTS REQUIRED INCLUDING REPLACING OR RELOCATING IRRIGATION LINES, HEADS, VALVES, WIRES, PLANTING OR ANY UTILITY THAT OCCURS ON ADJACENT PARCELS DUE TO THE GRADING AND CONSTRUCTION OF THIS PROJECT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER. THE OWNER'S REP. MUST REVIEW ANY REQUIRED MODIFICATIONS TO THESE AREAS PRIOR TO COMMENCING WORK. THE CONTRACTOR MUST NOTIFY THE OWNER'S AUTHORIZED REP. OF THESE CONDITIONS OR ANY DISCREPANCIES PRIOR TO COMMENCING WORK. (TYP. ENTIRE SITE)
18. CONTRACTOR IS TO PROTECT EXISTING LANDSCAPE AND HARDSCAPE IN PLACE EXCEPT WHERE INDICATED AS DEMO PER CIVIL PLANS. ANY EXISTING PLANTING/ IRRIGATION/ OR CONCRETE DAMAGED ON ADJACENT PROPERTY DUE TO CONSTRUCTION OR GRADING MUST BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER. TYPICAL ALL ADJACENT PROPERTIES.
19. INSTALL ALL PLAYGROUND COMPONENTS INCLUDING FOOTINGS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALLATION SHALL MEET ALL SAFETY REQUIREMENTS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.

KEYNOTES

KEY NOTE	DESCRIPTION	DET/ SHT	COLOR / FINISH
01	DECOMPOSED GRANITE - TYPE 1	10/ L5.01	HONEY QUARTZ D.G.
02	DECOMPOSED GRANITE - TYPE 2	10/ L5.01	CALIFORNIA GOLD D.G.
03	DECOMPOSED GRANITE - TYPE 3	10/ L5.01	BLUE SIERRA D.G.
04	NOT USED		
05	ROCK COBBLE	13/ L5.01	MEXICAN BEACH PEBBLE
06	CONCRETE PAVING	01/ L5.01	NATURAL GRAY/ MEDIUM BROOM
07	PRECAST PAVER	14/ L5.01	BORREGO/ STONE
08	PICNIC TABLE - ADA		SEE SITE FURNISHING LEGEND IN L0.01
09	PICNIC TABLE - STANDARD		SEE SITE FURNISHING LEGEND IN L0.01
10	NOT USED		
11	WALKWAY / LOWER SHADE CANOPY	02/ L5.06	
12	ARTIFACT CASES	01/ L5.02	STAINLESS/ UV GLAZING
13	SOLID STEEL BENCH	03/ L5.05	SEE SITE FURNISHING LEGEND IN L0.01
14	MARWOOD BENCH	17/ L5.05	SEE SITE FURNISHING LEGEND IN L0.01
15	35' FLAGPOLE	01/ L5.03	
16	NOT USED		
17	STEEL MEMORIAL	01/ L5.05	
18	COMPOSITE BOARD EDGING	11/ L5.04	BLACK
19	STONE & CORTEN MEMORIAL	01/ L5.04	
20	DRINKING FOUNTAIN	17/ L5.01	SEE SITE FURNISHING LEGEND IN L0.01
21	PERFORATED METAL FENCE - BID ALTERNATE	13/ L5.02	METALLIC STATUARY BRONZE/ PATTERN B21
22	TRASH RECEPTACLE	11/ L5.03	SEE SITE FURNISHING LEGEND IN L0.01
23	CONCRETE PAD AT TRASH RECEPTACLE	12/ L5.03	NATURAL GRAY/ MEDIUM BROOM

REFERENCE KEYNOTES

KEY NOTE	DESCRIPTION	DET REF
A	EXISTING PAVING	PROTECT IN PLACE
B	EXISTING CONCRETE CURB	PROTECT IN PLACE
C	EXISTING STREET LIGHT	PROTECT IN PLACE
D	EXISTING SIGN	PROTECT IN PLACE
E	EXISTING TREE	PROTECT IN PLACE
F	EXISTING TURF	PROTECT IN PLACE
G	RCMU UTILITY TRANSFORMER AND RAISED PAD	PER ELECTRICAL
H	ADA SYMBOL	PER CIVIL
J	TRUNCATED DOME PAVER	PER CIVIL
K	A.C. PAVING	PER CIVIL
L	CONCRETE VERTICAL CURB	PER CIVIL
M	CONCRETE FLUSH CURB	PER CIVIL
N	CONCRETE CURB RAMP	PER CIVIL
P	CONCRETE GUTTER	PER CIVIL
Q	CONCRETE DRIVEWAY	PER CIVIL
R	PRECAST CONCRETE WHEEL STOP	PER CIVIL
S	PARKING STRIPING	PER CIVIL
T	ADA STRIPING	PER CIVIL
U	BIORETENTION AREA - BOTTOM OF SLOPE	PER CIVIL
V	ACCESSIBLE PARKING SIGN	PER CIVIL

SITE LIGHTING/POWER LEGEND

KEYNOTE	DESCRIPTION	DET/ SHEET	COMMENTS
	EXISTING STREET LIGHT	-	PROTECT IN PLACE
	PROPOSED STREET LIGHT	-	SEE ELEC. PLANS FOR MODEL NO. AND COLOR
	COLUMN - MOUNTED ADJUSTABLE SPOTLIGHT	-	SEE ELEC. PLANS FOR MODEL NO. AND COLOR
	INGRADE ADJUSTABLE UPLIGHT	09/ E7.01	SEE ELEC. PLANS FOR MODEL NO. AND COLOR
	INGRADE FLAG POLE UPLIGHT	19/ E7.01	SEE ELEC. PLANS FOR MODEL NO. AND COLOR
	BOLLARD PATH LIGHT	02/ E7.01	SEE ELEC. PLANS FOR MODEL NO. AND COLOR
	PEDESTRIAN POLE	01/ E7.01	SEE ELEC. PLANS FOR MODEL NO. AND COLOR

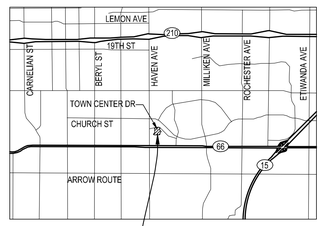
NOTE: SEE ELECTRICAL PLANS FOR FIXTURES, LAMPS, AND SPECS.

SITE SYMBOLS LEGEND

SYM.	DESC.	SYM.	DESC.	DET.
	FIRE HYDRANT		SAWCUT JOINT	02/ L5.01
	SEWER CLEANOUT		EXPANSION JOINT	02/ L5.01
	DRAIN (PER CIVIL)		LIMIT OF WORK	
	BACKFLOW PREVENTOR	T.O.S.	TOP OF SLOPE	
WM	WATER METER (PER CIVIL)	B.O.S.	TOE (BOTTOM) OF SLOPE	
PA	PLANTING AREA		ADA SIGNAGE	
	ALIGN		ATRIUM GRATE (PER CIVIL)	

NOTE: UTILITIES SHOWN ARE FOR REFERENCE ONLY. SEE CIVIL DWGS. FOR DETAILS AND EXACT LOCATIONS. FINAL LOCATIONS TO BE REVIEWED BY LANDSCAPE ARCHITECT.

VICINITY MAP



AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue, Suite 100
Irvine, California 92617

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

© LPA, Inc.

MEMORIAL PARK
10597 TOWN CENTER DRIVE
RANCHO CUCAMONGA, CA 91730
CITY OF RANCHO CUCAMONGA

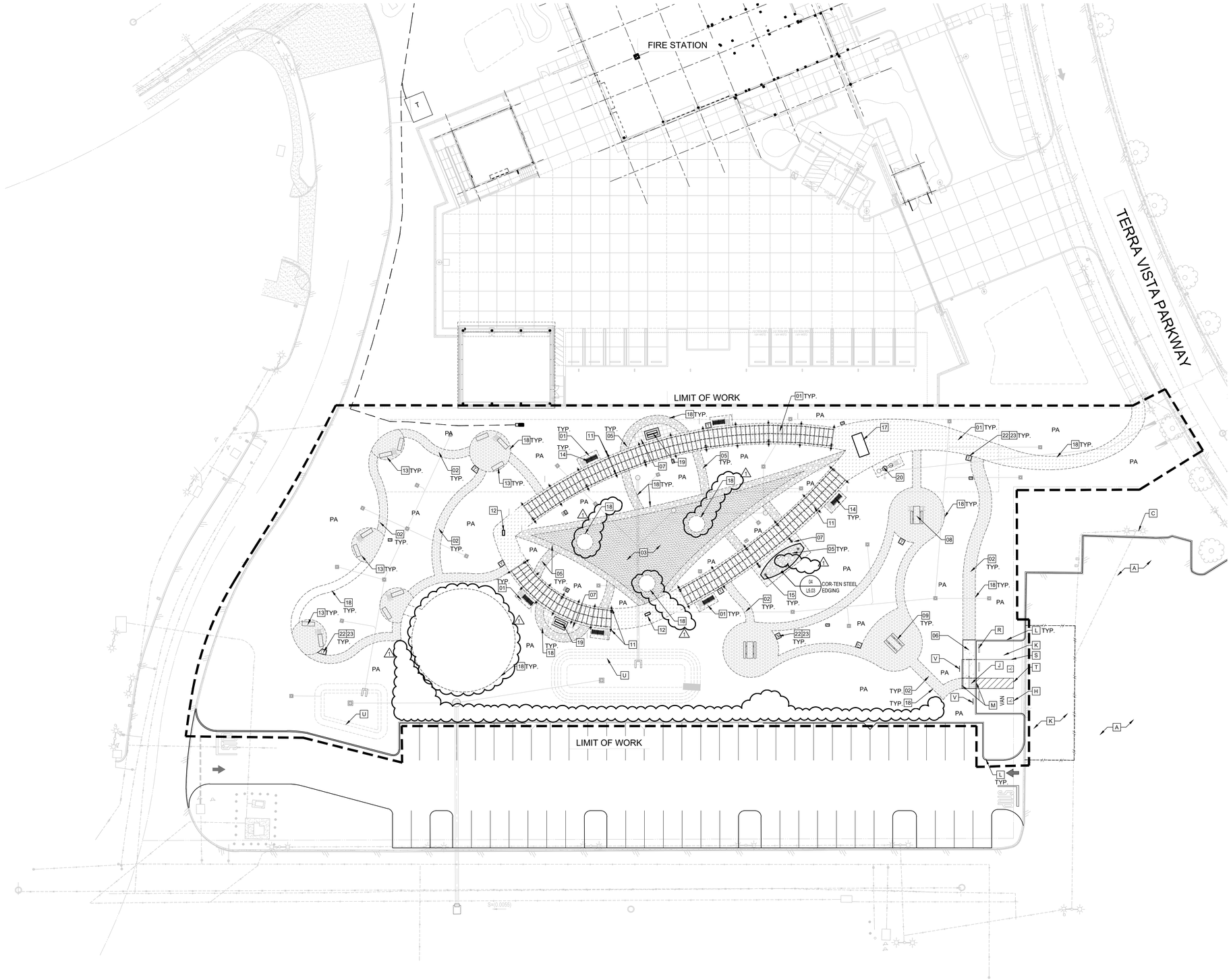
DATE	DESCRIPTION
07/31/2024	VE CHANGES

DATE	DESCRIPTION
03/31/2023	100% SCHEMATIC DESIGN
07/12/2023	100% DESIGN DEVELOPMENT
10/06/2023	50% CD
11/03/2023	100% CD
07/31/2024	PERMIT REVISION 01

PROJECT NUMBER	2104.02
DATE	07/31/2024
DRAWN BY	JY
CHECKED BY	N/A

LANDSCAPE NOTES AND SCHEDULES

L0.01



SITE PLAN 1" = 20' 01

0 10 20 40 N

KEYNOTES

KEY NOTE	DESCRIPTION	DET/ SHT	COLOR / FINISH
01	DECOMPOSED GRANITE - TYPE 1	10/ L5.01	HONEY QUARTZ D.G.
02	DECOMPOSED GRANITE - TYPE 2	10/ L5.01	CALIFORNIA GOLD D.G.
03	DECOMPOSED GRANITE - TYPE 3	10/ L5.01	BLUE SIERRA D.G.
1 04	NOT USED		
05	ROCK COBBLE	13/ L5.01	MEXICAN BEACH PEBBLE
06	CONCRETE PAVING	01/ L5.01	NATURAL GRAY/ MEDIUM BROOM
07	PRECAST PAVER	14/ L5.01	BORREGO/ STONE
08	PICNIC TABLE - ADA		SEE SITE FURNISHING LEGEND IN L0.01
09	PICNIC TABLE - STANDARD		SEE SITE FURNISHING LEGEND IN L0.01
1 10	NOT USED		
11	WALKWAY / LOWER SHADE CANOPY	02/ L5.06	
12	ARTIFACT CASES	01/ L5.02	STAINLESS/ UV GLAZING
13	SOLID STEEL BENCH	03/ L5.05	SEE SITE FURNISHING LEGEND IN L0.01
14	MARWOOD BENCH	17/ L5.05	SEE SITE FURNISHING LEGEND IN L0.01
15	35' FLAGPOLE	01/ L5.03	
1 16	NOT USED		
17	STEEL MEMORIAL	01/ L5.05	
1 18	COMPOSITE BOARD EDGING	11/ L5.01	BLACK
19	STONE & CORTEN MEMORIAL	01/ L5.04	
20	DRINKING FOUNTAIN	17/ L5.01	SEE SITE FURNISHING LEGEND IN L0.01
21	PERFORATED METAL FENCE - BID ALTERNATE	13/ L5.02	METALLIC STATUARY BRONZE/ PATTERN B21
22	TRASH RECEPTACLE	11/ L5.03	SEE SITE FURNISHING LEGEND IN L0.01
23	CONCRETE PAD AT TRASH RECEPTACLE	12/ L5.03	NATURAL GRAY/ MEDIUM BROOM

REFERENCE KEYNOTES

KEY NOTE	DESCRIPTION	DET REF
A	EXISTING PAVING	PROTECT IN PLACE
B	EXISTING CONCRETE CURB	PROTECT IN PLACE
C	EXISTING STREET LIGHT	PROTECT IN PLACE
D	EXISTING SIGN	PROTECT IN PLACE
E	EXISTING TREE	PROTECT IN PLACE
F	EXISTING TURF	PROTECT IN PLACE
G	RCMU UTILITY TRANSFORMER AND RAISED PAD	PER ELECTRICAL
H	ADA SYMBOL	PER CIVIL
J	TRUNCATED DOME PAVER	PER CIVIL
K	A.C. PAVING	PER CIVIL
L	CONCRETE VERTICAL CURB	PER CIVIL
M	CONCRETE FLUSH CURB	PER CIVIL
N	CONCRETE CURB RAMP	PER CIVIL
P	CONCRETE GUTTER	PER CIVIL
Q	CONCRETE DRIVEWAY	PER CIVIL
R	PRECAST CONCRETE WHEEL STOP	PER CIVIL
S	PARKING STRIPING	PER CIVIL
T	ADA STRIPING	PER CIVIL
U	BIORETENTION AREA - BOTTOM OF SLOPE	PER CIVIL
V	ACCESSIBLE PARKING SIGN	PER CIVIL

SITE LIGHTING/POWER LEGEND

KEY NOTE	DESCRIPTION	DET/ SHEET	COMMENTS
	EXISTING STREET LIGHT	-	PROTECT IN PLACE
	PROPOSED STREET LIGHT	-	SEE ELEC. PLANS FOR MODEL NO. AND COLOR
	COLUMN - MOUNTED ADJUSTABLE SPOTLIGHT	-	SEE ELEC. PLANS FOR MODEL NO. AND COLOR
	INGRADE ADJUSTABLE UPLIGHT	09/ E7.01	SEE ELEC. PLANS FOR MODEL NO. AND COLOR
	INGRADE FLAG POLE UPLIGHT	19/ E7.01	SEE ELEC. PLANS FOR MODEL NO. AND COLOR
	BOLLARD PATH LIGHT	02/ E7.01	SEE ELEC. PLANS FOR MODEL NO. AND COLOR
	PEDESTRIAN POLE	01/ E7.01	SEE ELEC. PLANS FOR MODEL NO. AND COLOR

NOTE: SEE ELECTRICAL PLANS FOR FIXTURES, LAMPS, AND SPECS.

SITE SYMBOLS LEGEND

SYM.	DESC.	SYM.	DESC.	DET.
	FIRE HYDRANT		SAWCUT JOINT	02/ L5.01
	SEWER CLEANOUT		EXPANSION JOINT	02/ L5.01
	DRAIN (PER CIVIL)		LIMIT OF WORK	
	BACKFLOW PREVENTOR	T.O.S.	TOP OF SLOPE	
WM	WATER METER (PER CIVIL)	B.O.S.	TOE (BOTTOM) OF SLOPE	
PA	PLANTING AREA		ADA SIGNAGE	
	ALIGN		ATRIUM GRATE (PER CIVIL)	

NOTE: UTILITIES SHOWN ARE FOR REFERENCE ONLY. SEE CIVIL DWGS. FOR DETAILS AND EXACT LOCATIONS. FINAL LOCATIONS TO BE REVIEWED BY LANDSCAPE ARCHITECT.

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue, Suite 100
Irvine, California 92617

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

This document and all other project documents, ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are copyright protected, are the property of LPA, Inc. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as set forth in the contractual agreement between LPA and its Client. The unauthorized disclosure and/or use of the project documents (including the creation of derivative works), may give rise to liability for copyright infringement, unlawful disclosure, use or misappropriation of property rights held by LPA. The unauthorized use of the project documents will give rise to the recovery of monetary losses and damages including attorney fees and costs for which the unauthorized user will be held liable. Project documents describe the design intent of the work and are not a representation of as-built or existing conditions. LPA is not responsible for any discrepancies between the project documents and the existing conditions.

LPA I

MEMORIAL PARK

10597 TOWN CENTER DRIVE
RANCHO CUCAMONGA, CA 91730

Developed for
CITY OF RANCHO CUCAMONGA

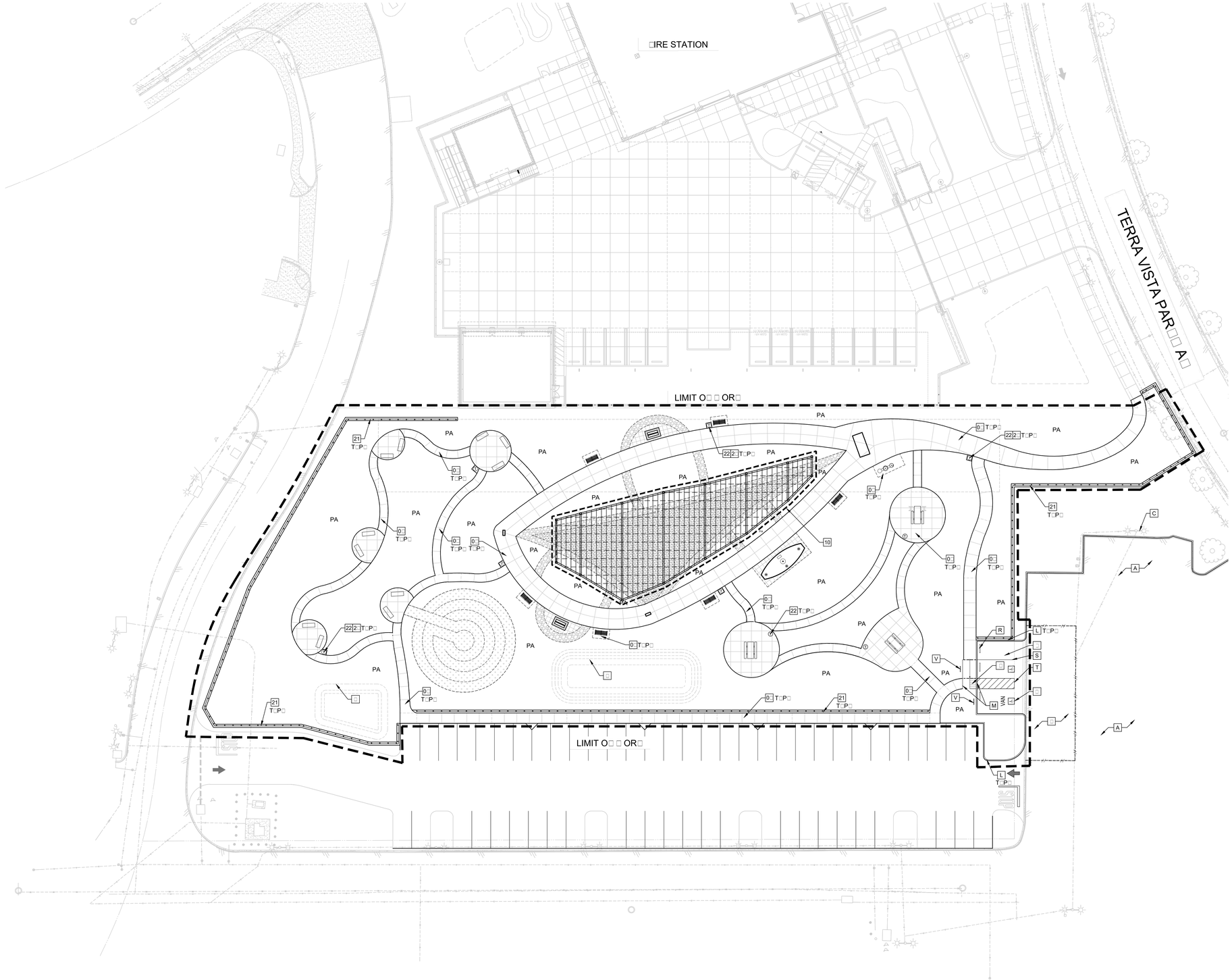
Revision	Date
1 VE CHANGES	07/31/2024

Submittal	Date
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/12/2023
50% CD	10/06/2023
100% CD	11/03/2023
PERMIT REVISION 01	07/31/2024

Job Number	30548.02
Date Published	07/31/2024
Checked By	JY
Scale	1"=20'-0"

SITE PLAN

L1.01



□E□NOTES

KEY NOTE	DESCRIPTION	DET/ SHT	COLOR / FINISH
01	DECOMPOSED GRANITE - TYPE 1	10/ L5.01	HONEY QUARTZ D.G.
02	DECOMPOSED GRANITE - TYPE 2	10/ L5.01	CALIFORNIA GOLD D.G.
03	DECOMPOSED GRANITE - TYPE 3	10/ L5.01	BLUE SIERRA D.G.
04	DECOMPOSED GRANITE - TYPE 4	10/ L5.01	RED WINE D.G.
05	ROCK COBBLE	13/ L5.01	MEXICAN BEACH PEBBLE
06	CONCRETE PAVING	01/ L5.01	NATURAL GRAY/ MEDIUM BROOM
07	PRECAST PAVER	14/ L5.01	BORREGO/ STONE
08	PICNIC TABLE - ADA		SEE SITE FURNISHING LEGEND IN L0.01
09	PICNIC TABLE - STANDARD		SEE SITE FURNISHING LEGEND IN L0.01
10	UPPER SHADE CENTER CANOPY - BID ALTERNATE	01/ L5.07	
11	WALKWAY / LOWER SHADE CANOPY	02/ L5.06	
12	ARTIFACT CASES	01/ L5.02	STAINLESS/ UV GLAZING
13	SOLID STEEL BENCH	03/ L5.05	SEE SITE FURNISHING LEGEND IN L0.01
14	MARWOOD BENCH	17/ L5.05	SEE SITE FURNISHING LEGEND IN L0.01
15	35' FLAGPOLE	01/ L5.03	
16	"ETERNAL FLAME" METAL BURNER	03/ L5.03	
17	STEEL MEMORIAL	01/ L5.05	
18	ALUMINUM EDGING	09/ L5.01	BLACK
19	STONE & CORTEN MEMORIAL	01/ L5.04	
20	DRINKING FOUNTAIN	17/ L5.01	SEE SITE FURNISHING LEGEND IN L0.01
21	PERFORATED METAL FENCE - BID ALTERNATE	13/ L5.02	METALLIC STATUARY BRONZE/ PATTERN 821
22	TRASH RECEPTACLE	11/ L5.03	SEE SITE FURNISHING LEGEND IN L0.01
23	CONCRETE PAD AT TRASH RECEPTACLE	12/ L5.03	NATURAL GRAY/ MEDIUM BROOM

RE□ERENCE □E□NOTES

KEY NOTE	DESCRIPTION	DET REF
A	EXISTING PAVING	PROTECT IN PLACE
B	EXISTING CONCRETE CURB	PROTECT IN PLACE
C	EXISTING STREET LIGHT	PROTECT IN PLACE
D	EXISTING SIGN	PROTECT IN PLACE
E	EXISTING TREE	PROTECT IN PLACE
F	EXISTING TURF	PROTECT IN PLACE
G	RCMU UTILITY TRANSFORMER AND RAISED PAD	PER ELECTRICAL
H	ADA SYMBOL	PER CIVIL
J	TRUNCATED DOME PAVER	PER CIVIL
K	A.C. PAVING	PER CIVIL
L	CONCRETE VERTICAL CURB	PER CIVIL
M	CONCRETE FLUSH CURB	PER CIVIL
N	CONCRETE CURB RAMP	PER CIVIL
P	CONCRETE GUTTER	PER CIVIL
Q	CONCRETE DRIVEWAY	PER CIVIL
R	PRECAST CONCRETE WHEEL STOP	PER CIVIL
S	PARKING STRIPING	PER CIVIL
T	ADA STRIPING	PER CIVIL
U	BIORETENTION AREA - BOTTOM OF SLOPE	PER CIVIL
V	ACCESSIBLE PARKING SIGN	PER CIVIL

SITE LIG□TING/PO□ ER LEGEND

□E□ NOTE	DESCRIPTION	DET/ SHEET	COMMENTS
	EXISTING STREET LIGHT	-	PROTECT IN PLACE
	PROPOSED STREET LIGHT	-	SEE ELEC. PLANS FOR MODEL NO. AND COLOR
	COLUMN - MOUNTED ADJUSTABLE SPOTLIGHT	-	SEE ELEC. PLANS FOR MODEL NO. AND COLOR
	INGRADE ADJUSTABLE UPLIGHT	09/ E7.01	SEE ELEC. PLANS FOR MODEL NO. AND COLOR
	INGRADE FLAG POLE UPLIGHT	19/ E7.01	SEE ELEC. PLANS FOR MODEL NO. AND COLOR
	BOLLARD PATH LIGHT	02/ E7.01	SEE ELEC. PLANS FOR MODEL NO. AND COLOR
	PEDESTRIAN POLE	01/ E7.01	SEE ELEC. PLANS FOR MODEL NO. AND COLOR

NOTE: SEE ELECTRICAL PLANS FOR FIXTURES, LAMPS, AND SPECS.

SITE S□M□OLS LEGEND

SYM.	DESC.	SYM.	DESC:	DET.
	FIRE HYDRANT		SAWCUT JOINT	02/ L5.01
	SEWER CLEANOUT		EXPANSION JOINT	02/ L5.01
	DRAIN (PER CIVIL)		LIMIT OF WORK	
	BACKFLOW PREVENTOR	T.O.S.	TOP OF SLOPE	
WM	WATER METER (PER CIVIL)	B.O.S.	TOE (BOTTOM) OF SLOPE	
PA	PLANTING AREA		ADA SIGNAGE	
	ALIGN		ATRIUM GRATE (PER CIVIL)	

NOTE: UTILITIES SHOWN ARE FOR REFERENCE ONLY. SEE CIVIL DWGS. FOR DETAILS AND EXACT LOCATIONS. FINAL LOCATIONS TO BE REVIEWED BY LANDSCAPE ARCHITECT.

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue, Suite 100
Irvine, California 92617

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

T□□ d□□□ □□□□d □□□□□r r□□□□d□□□□ □□□□□ d□□□□□□□□□□□□□□ □ d d□□□□□ □□ r□r□ d□□□□□□□□□□□□□□

SITE SYMBOLS LEGEND

SYM.	DESC.	SYM.	DESC.	DET.
	FIRE HYDRANT		SAWCUT JOINT	02/ L5.01
CO	SEWER CLEANOUT		EXPANSION JOINT	02/ L5.01
	DRAIN (PER CIVIL)		LIMIT OF WORK	
	BACKFLOW PREVENTOR	T.O.S.	TOP OF SLOPE	
WM	WATER METER (PER CIVIL)	B.O.S.	TOE (BOTTOM) OF SLOPE	
PA	PLANTING AREA		ADA SIGNAGE	
	ALIGN		ATRIUM GRATE (PER CIVIL)	

NOTE: UTILITIES SHOWN ARE FOR REFERENCE ONLY. SEE CIVIL DWGS. FOR DETAILS AND EXACT LOCATIONS. FINAL LOCATIONS TO BE REVIEWED BY LANDSCAPE ARCHITECT.

0 10 20 40 N

LAYOUT PLAN 1" = 20' 01

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue,
Suite 100
Irvine, California 92617

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

This document and all other project documents, ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are copyright protected, are the property of LPA, Inc. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as set forth in the contractual agreement between LPA and its Client. The unauthorized disclosure and/or use of the project documents (including the creation of derivative works), may give rise to liability for copyright infringement, unlawful disclosure, use or misappropriation of property rights held by LPA. The unauthorized use of the project documents will give rise to the recovery of monetary losses and damages including attorney fees and costs for which the unauthorized user will be held liable.
Project documents describe the design intent of the work and are not a representation of as-built or existing conditions. LPA is not responsible for any discrepancies between the project documents and the existing conditions.
LPA I

MEMORIAL PARK

10597 TOWN CENTER DRIVE
RANCHO CUCAMONGA, CA 91730

Developed for
CITY OF RANCHO CUCAMONGA

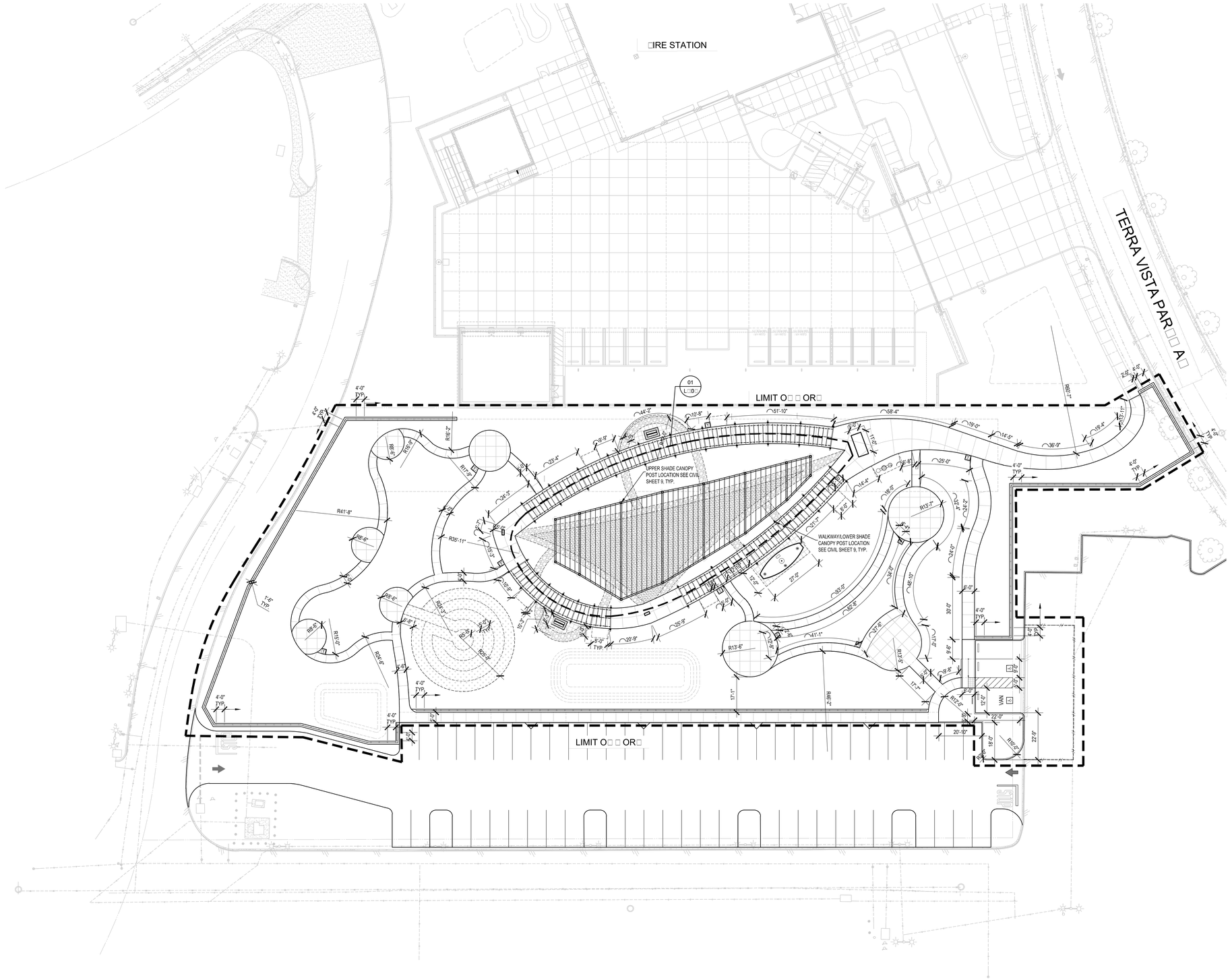
Revision	Date
1 VE CHANGES	07/31/2024

Submittal	Date
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/12/2023
50% CD	10/06/2023
100% CD	11/03/2023
PERMIT REVISION 01	07/31/2024

Job Number	30548.02
Date Published	07/31/2024
Checked By	JY
Scale	1"=20'-0"

LAYOUT PLAN

L2.01



LA□O□T PLAN □□ID ALTERNATES 01

SITE S□M□OLS LEGEND

SYM.	DESC.	SYM.	DESC.	DET.
	FIRE HYDRANT		SAWCUT JOINT	02/ L5.01
CO	SEWER CLEANOUT		EXPANSION JOINT	02/ L5.01
	DRAIN (PER CIVIL)		LIMIT OF WORK	
	BACKFLOW PREVENTOR	T.O.S.	TOP OF SLOPE	
WM	WATER METER (PER CIVIL)	B.O.S.	TOE (BOTTOM) OF SLOPE	
PA	PLANTING AREA		ADA SIGNAGE	
	ALIGN		ATRIUM GRATE (PER CIVIL)	

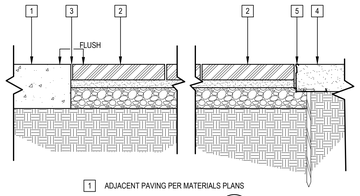
NOTE: UTILITIES SHOWN ARE FOR REFERENCE ONLY. SEE CIVIL DWGS. FOR DETAILS AND EXACT LOCATIONS. FINAL LOCATIONS TO BE REVIEWED BY LANDSCAPE ARCHITECT.

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue,
Suite 100
Irvine, California 92617

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

T□□ d□□□ □□□□d □□□□r r□□□d□□□ □□□□ d□□□□□□□□□□ □d d□□□ □□ r□ □d □□□ □□□□r A□r□□□□ d□□□ □□□r r□ □□□r□□ □□□□ □□□□ A□r□□□□ r□□□ r□□LPA J□□□LPA□□d □□□□□□□ □□□ □□□ d □□ □□□□□ r □□ □□ r□□□ □□□□r□□□ r□□ □□□ □□□□□□□ □□□□□ □□□□r □□ □□□ □□□□□□□□ □□□□□ □□□□ □□□□□ LPA □d □ □□C□□□ T □□□□□□□□d □d □□□□□r□ □□d□r J □□□ □□□□ r□□□□□ □d J □□□□□□□□ □□□ □□□□□□ □□□ r□□□□□ □d J □□□□□□□□ □□ □□□□□ □r □□□ r□□□□□□□□ □□□ r□□□□□□□□ □□ J□□r□□□□□□□□ □□ □□□□□ LPA□ T□□ □□□□□□□□d □□□ □□□□□□ r□□□d □□□□ □□□□□□□□ r□□ □□□ □□□□□□□□ □□□□□ □□□□□□□□ □□□□□□□□ □□□□



1 ADJACENT PAVING PER MATERIALS PLANS

2 PRECAST CONCRETE PAVER PER REFER TO SPECS FOR MIN PAVER LENGTH AT EDGE (14 / -)

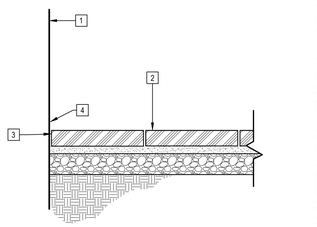
3 BUTT JOINT @ PRECAST PAVER BACKFILL JOINT W/SAND, TYP.

4 DECOMPOSED GRANITE (10 / -)

5 ALUMINUM METAL EDGING (09 / -)

NOTES:
A. FOR MORE INFO SEE (14 / -)

PAVER @ ADJ. HARDSCAPE — 1 1/2"=1'-0" — 16



1 VERTICAL SURFACE

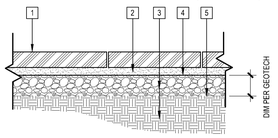
2 PRECAST CONCRETE PAVER (14 / -)

3 BUTT JOINT

4 BACKFILL WITH SAND- TYP.

NOTES:
A. FOR MORE INFO SEE (14 / -)

PRECAST PAVERS @ VERT. SURF. — 1 1/2"=1'-0" — 15



1 24" x 24" PRECAST CONCRETE PAVER, MODEL: MODULO. 24 STACK PATTERN. COLOR/FINISH PER PLANS/SPECS.

2 1" - 1 1/2" MAX. SAND LEVELING BED

3 AGGREGATE BASE & COMPACTED SUBGRADE PER (01 / -)

4 DRAINAGE GEOTEXTILE, MIRAFI 140N

5 SEPARATION GEOTEXTILE

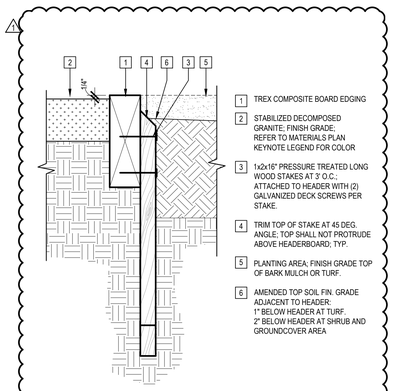
NOTES:
A. INTEGRAL COLOR TO BE SOLID THROUGHOUT THE ENTIRE THICKNESS OF THE PAVER.

B. PAVERS @ ADJACENT HARDSCAPE PER (16 / -)

C. PAVERS @ VERTICAL SURFACE PER (15 / -)

D. PAVER PATTERN: RUNNING BOND

PRECAST PAVERS — 1 1/2"=1'-0" — 14



1 TREX COMPOSITE BOARD EDGING

2 STABILIZED DECOMPOSED GRANITE; FINISH GRADE; REFER TO MATERIALS PLAN KEYNOTE LEGEND FOR COLOR

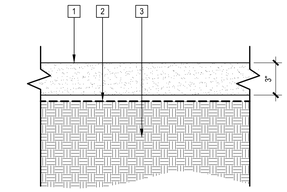
3 1x2x16" PRESSURE TREATED LONG WOOD STAKES AT 3' O.C., ATTACHED TO HEADER WITH (2) GALVANIZED DECK SCREWS PER STAKE.

4 TRIM TOP OF STAKE AT 45 DEG. ANGLE; TOP SHALL NOT PROTRUDE ABOVE HEADERBOARD; TYP.

5 PLANTING AREA; FINISH GRADE TOP OF BARK MULCH OR TURF.

6 AMENDED TOP SOIL FIN. GRADE ADJACENT TO HEADER: 1" BELOW HEADER AT TURF. 2" BELOW HEADER AT SHRUB AND GROUNDCOVER AREA

COMPOSITE BOARD EDGING — 3" = 1'-0" — 11



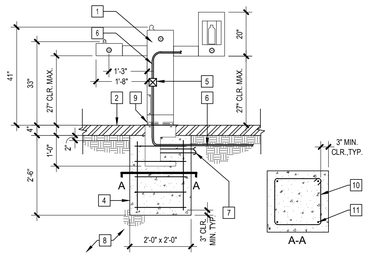
1 DECOMPOSED GRANITE PAVING W/ 'STABILIZER'. REFER TO MATERIALS PLAN FOR COLOR. MANUFACTURER: SOUTHWEST BOULDER & STONE

2 SOIL SEPARATOR FABRIC "MIRAFI" 140N

3 REFER TO GEOTECH REPORT FOR SUBGRADE COMPACTION, SCARIFICATION, AND OVER EXCAVATION

NOTE:
A. ALUMINUM EDGING (09 / -)

DECOMPOSED GRANITE PAVING — 3" = 1'-0" — 10



1 DRINKING FOUNTAIN. SEE SITE FURNISHINGS LEGEND.

2 CONCRETE PAVING/PAD- FINISH & COLOR TO MATCH ADJACENT CONCRETE.

3 NOT USED.

4 CONCRETE FOOTING

5 1/2" NIBCOT 685-66-LF VALVE INTEGRATED INTO FOUNTAIN.

6 3/8" REINFORCED NYLOBROID TUBING W/ 1/2" MIP. CONNECT TO SHUT-OFF VALVE AND STUB OUT.

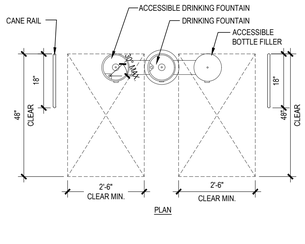
7 1 1/2" PVC DRAINLINE. CONNECT TO DRYWELL. SEE CIVIL PLANS.

8 BASE MATERIAL & COMPACTED SUBGRADE PER (01 / -) SIM

9 SURFACE ADAPTOR & TEMPLATE, 10 NS.

10 #4 TIES @ 6" O.C.

11 (4) #5 VERT. BARS

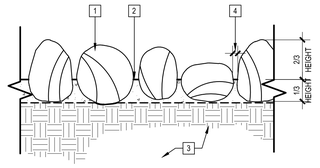


NOTE:
1. REQUIRED SIDE RAIL

2. WATER FLOW FROM SPIGOT SHALL BE MINIMUM 4" IN HEIGHT.

NOTES:
1. CONCRETE BATCH PLANT INSPECTION IS NOT REQUIRED.

DRINKING FOUNTAIN — 1" = 1'-0" — 17



1 HAND SET COBBLES FROM SOUTHWEST BOULDER & STONE. 3"-5" MEXICAN BEACH PEBBLE. MINIMUM 1/3 OF COBBLE TO BE BELOW FINISH SURFACE.

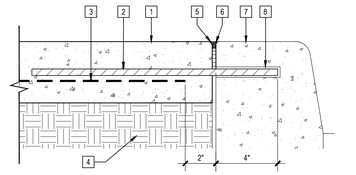
2 NON-SHRINK GROUT

3 BASE MATERIAL AND COMPACTED SUBGRADE PER GEOTECHNICAL REPORT

4 1/2" MAXIMUM SPACING BETWEEN COBBLES

NOTES:
A. COBBLES SHALL BE POWER WASHED PRIOR TO PLACEMENT TO REMOVE DIRT AND DEBRIS.
B. PROVIDE FIELD MOCK-UP FOR REVIEW BY THE LANDSCAPE ARCHITECT.
C. LANDSCAPE ARCHITECT SHALL LAY OUT EXTENTS OF EACH COBBLE TYPE IN FIELD. PROVIDE 72 HOURS NOTICE FOR SITE VISIT.

COBBLE — 1 1/2" = 1'-0" — 13



1 CONCRETE PAVING; REFER TO DTL. (01 / -)

2 24" DOWEL @ 18" O.C.

3 CONCRETE PAVING STEEL REINFORCEMENT; REFER TO DTL. (01 / -)

4 BASE MATERIAL & COMPACTED SUBGRADE; REFER TO DTL. (01 / -)

5 1/8" RADIUS

6 EXPANSION JOINT; REFER TO DTL. (04 / -)

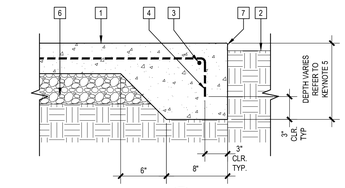
7 CONCRETE CURB; REFER TO CIVIL DTL.

8 DRILLED 5/8" DIA. SLIP SLEEVE AT CONCRETE CURB; DOWEL TO HAVE FREE MOVEMENT THIS SIDE

NOTES:
A. NATIVE OR FILL SOIL SUPPORTING EXTERIOR NON-STRUCTURAL FLATWORK AND UNPAVED LANDSCAPING AREAS ARE EXEMPT FROM SPECIAL INSPECTION AND TESTING.

B. CONCRETE BATCH PLANT INSPECTION IS NOT REQUIRED.

PAVING JOINT AT CURB — 3"=1'-0" — 07



1 CONCRETE PAVING; REFER TO DTL. (01 / -)

2 ADJACENT SURFACE/ FINISH GRADE; REFER TO PER MATERIALS PLAN

3 #X REINFORCING; CONTINUOUS

4 EXTEND REINFORCEMENT FROM PAVING INTO THICKENED EDGE & WRAP ENDS

5 THICKENED EDGE: xx" DEPTH FOR PEDESTRIAN PAVING; xx" DEPTH FOR VEHICULAR PAVING (01 / -)

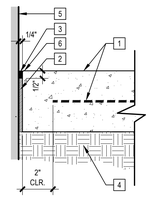
6 BASE MATERIAL & COMPACTED SUBGRADE; REFER TO DTL.

7 EASE ALL EDGES; 1/4"R, TYP.

NOTES:
A. ADD EXPANSION JOINTS AT ALL THICKENED EDGE CONDITIONS ADJACENT TO OTHER PAVING TYPES PER DETAIL

B. EXPANSION JOINT ADJACENT TO CURB PER DETAIL (07 / -)

CONC. PAVING THICKENED EDGE — 1-1/2" = 1'-0" — 06



1 CONCRETE PAVING AND REINFORCEMENT PER DETAIL (01 / -)

2 EXPANSION JOINT FILLER; MATCH FULL DEPTH OF CONC. PAVING; REFER TO SPECS FOR MATERIAL

3 JOINT SEALANT: COLOR TO MATCH CONCRETE COLOR W/SEEDED SILICA SAND

4 BASE MATERIAL AND SUBGRADE PER CIVIL DETAIL (01 / -)

5 FACE OF VERTICAL SURFACE

6 1/8" RADIUS

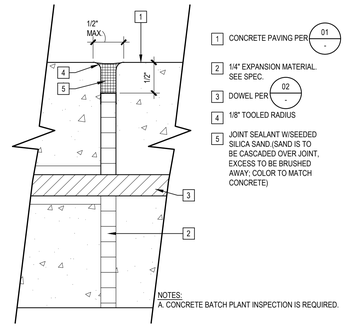
NOTES:
A. PROVIDE EXPANSION JOINT AT ALL VERTICAL SURFACES.

B. EXPANSION JOINT AT CURB PER DETAIL (07 / -)

C. NATIVE OR FILL SOIL SUPPORTING EXTERIOR NON-STRUCTURAL FLATWORK AND UNPAVED LANDSCAPING AREAS ARE EXEMPT FROM SPECIAL INSPECTION AND TESTING.

D. CONCRETE BATCH PLANT INSPECTION IS NOT REQUIRED.

EXPANSION JOINT AT VERTICAL SURFACE — 3"=1'-0" — 05



1 CONCRETE PAVING PER (01 / -)

2 1/4" EXPANSION MATERIAL. SEE SPEC.

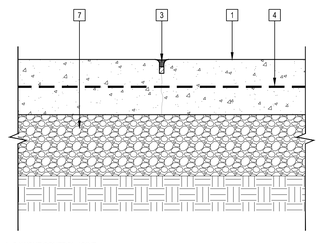
3 DOWEL PER (02 / -)

4 1/8" TOOLED RADIUS

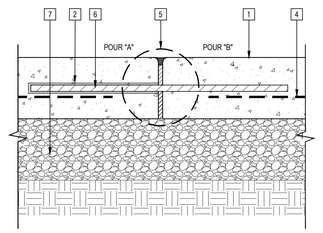
5 JOINT SEALANT W/SEEDED SILICA SAND (SAND IS TO BE CASCADED OVER JOINT, EXCESS TO BE BRUSHED AWAY; COLOR TO MATCH CONCRETE)

NOTES:
A. CONCRETE BATCH PLANT INSPECTION IS REQUIRED.

EXPANSION JOINT ENLARGEMENT — FULL — 04



A. SAWCUT CONTROL JOINT



B. EXPANSION JOINT

1 CONCRETE PAVING; REFER TO DETAIL (01 / -)

2 "SPEED DOWEL"; BY SIKA CORPORATION CONCRETE ACCESSORIES; PRODUCT # PSD12/ #4TX

3 SAWCUT CONTROL JOINT; 1/8-INCH WIDE; CUT TO 1/4 DEPTH OF SLAB; PROVIDE TIGHT 1/8-INCH RADIUS ON EDGE OF PAVING BEFORE SAWCUTTING.

4 CONCRETE PAVING REBAR; REFER TO DETAIL (01 / -)

5 JOINT ENLARGEMENT; REFER TO DETAIL (04 / -)

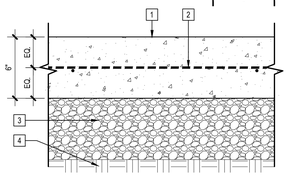
6 PEDESTRIAN: 5/8" SMOOTH STEEL DOWEL 24" @ 18" O.C. VEHICULAR: 5/8" SMOOTH STEEL DOWEL 24" @ 18" O.C.

7 AGGREGATE BASE AND SUBGRADE; REFER TO DETAIL (01 / -)

NOTES:
A. NATIVE OR FILL SOIL SUPPORTING EXTERIOR NON-STRUCTURAL FLATWORK AND UNPAVED LANDSCAPING AREAS ARE EXEMPT FROM SPECIAL INSPECTION AND TESTING.

B. CONCRETE BATCH PLANT INSPECTION IS NOT REQUIRED.

CONCRETE PAVING JOINTS — 3" = 1'-0" — 02



1 CONCRETE PAVING; REFER TO MATERIALS PLAN KEYNOTE LEGEND FOR FINISH & COLOR.

2 #4 REBAR @ 18" O.C. BOTH WAYS

3 4" AGGREGATE BASE (CLASS 2)

4 SUBGRADE COMPACTION AND OVER EXCAVATION PER GEOTECHNICAL REPORT

NOTES:
A. SAWCUT & EXPANSION JOINTS: REFER TO DTL. (02 / -)

B. PROVIDE DOWELS WHERE NEW CONCRETE TIES INTO EXISTING PER DTL. (02 / -)

C. PROVIDE THICKENED EDGE AT COLUMNS, WALLS, AND WHERE PAVING ADJACENT TO PLANTING. (06 / -)

D. PROVIDE EXPANSION JOINT @ VERTICAL SURFACES. (05 / -)

E. DO NOT OVER POUR INTO ADJACENT PLANTERS.

CONCRETE PAVING — 3" = 1'-0" — 01

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue, Suite 100
Irvine, California 92617

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

This document and all other project documents, ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are copyright protected, are the property of LPA, Inc. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as set forth in the contractual agreement between LPA and its Client. The unauthorized disclosure and/or use of the project documents (including the creation of derivative works), may give rise to liability for copyright infringement, unlawful disclosure, use or misappropriation of property rights held by LPA. The unauthorized use of the project documents will give rise to the recovery of monetary losses and damages including attorney fees and costs for which the unauthorized user will be held liable.
Project documents describe the design intent of the work and are not a representation of as-built or existing conditions. LPA is not responsible for any discrepancies between the project documents and the existing conditions.

LPA I

MEMORIAL PARK

10597 TOWN CENTER DRIVE
RANCHO CUCAMONGA, CA 91730

Developed for
CITY OF RANCHO CUCAMONGA

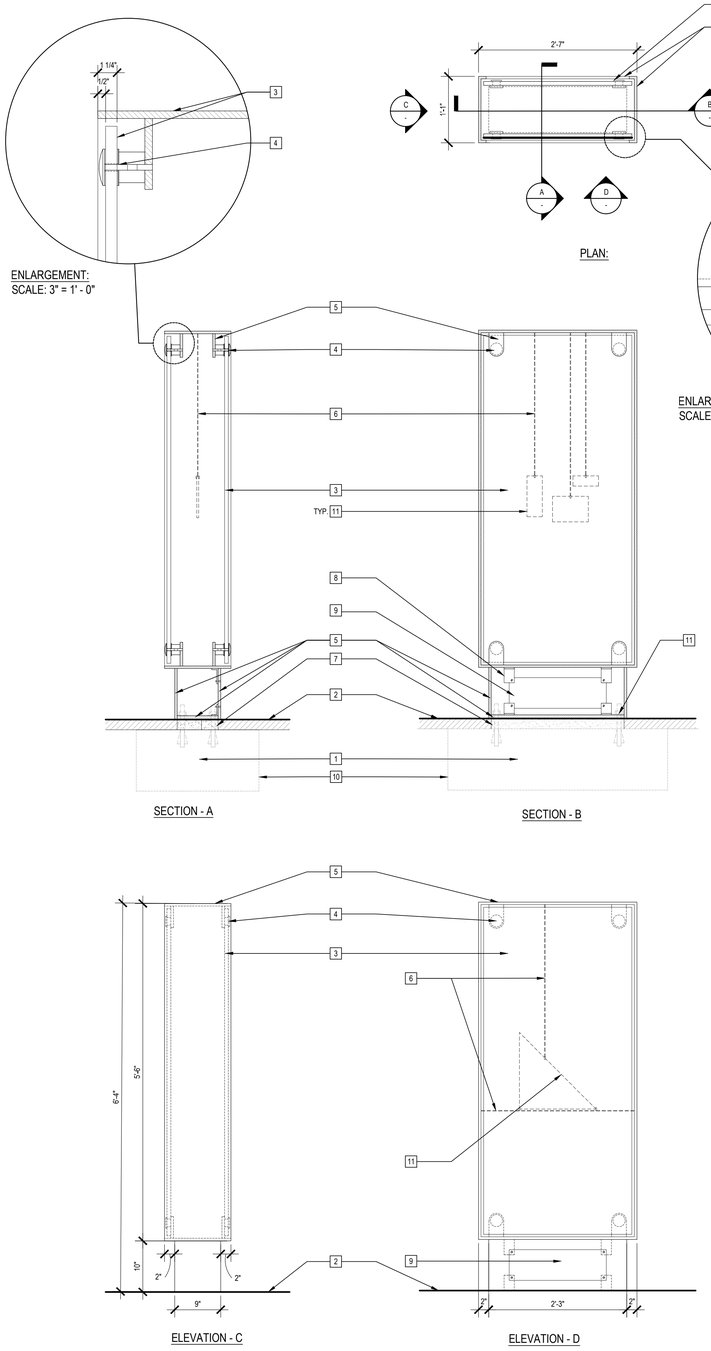
Revision	Date
1 VE CHANGES	07/31/2024

Submittal	Date
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/12/2023
50% CD	10/06/2023
100% CD	11/03/2023
PERMIT REVISION 01	07/31/2024

Job Number	30548.02
Date Published	07/31/2024
Checked By	JY
Scale	AS SHOWN

CONSTRUCTION DETAILS

L5.01



1. SECURE CASEWORK WITH (1) 3/8" DIA. X 2 1/2" EFFECTIVE EMBEDMENT STAINLESS STEEL HILTI KB-TZ 2 (SEE STRUCTURAL GENERAL NOTES SECTION G ON S0.01)
2. FINISH SURFACE
3. 1/2" THK. S.S. DISPLAY CASE W/ 3/4" THK. VANDAL RESISTANT/UV GLAZING 3/4" THK. VANDAL RESISTANT/UV GLASS-CLAD POLYCARBONATE
4. CRL POINT SUPPORTED STANDOFF BASE AND DOMED CAP
5. 1/2" WELDED S.S. DISPLAY CASE
6. 1/8" S.S. ROD W/ MUSEUM CLIP, WELD TO TOP OF CASE
7. NON-SHRINK GROUT
8. WELDED METAL TAB FOR ACCESS PANEL FASTENERS, TO MATCH CASE
9. ACCESS PANEL TO MATCH CASE W/ 4 S.S. TAMPER PROOF FASTENERS
10. CONCRETE FOOTING (03 / S1.01)
11. ARTIFACT OFCI. COORDINATE MOUNTING LOCATION WITHIN CASE, PER ARCH

NOTES:

A. SUBMIT SHOP DRAWINGS TO ARCHITECT FOR APPROVAL PRIOR TO FABRICATION.

FLIGHT 93 PENTAGON ARTIFACT CASES | 1" = 1'-0" | 01

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue,
Suite 100
Irvine, California 92617

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

This document and all other project documents, ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are copyright protected, are the property of LPA, Inc. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as set forth in the contractual agreement between LPA and its Client. The unauthorized disclosure and/or use of the project documents (including the creation of derivative works), may give rise to liability for copyright infringement, unlawful disclosure, use or misappropriation of property rights held by LPA. The unauthorized use of the project documents will give rise to the recovery of monetary losses and damages including attorney fees and costs for which the unauthorized user will be held liable.
Project documents describe the design intent of the work and are not a representation of as-built or existing conditions. LPA is not responsible for any discrepancies between the project documents and the existing conditions.

LPA I

MEMORIAL PARK
10597 TOWN CENTER DRIVE
RANCHO CUCAMONGA, CA 91730
Developed for
CITY OF RANCHO CUCAMONGA

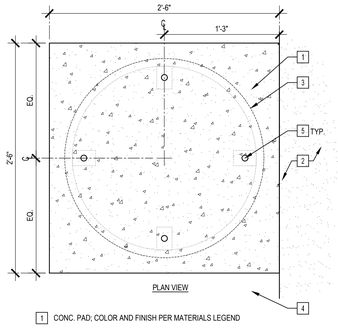
Revision	Date
1 VE CHANGES	07/31/2024

Submittal	Date
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/12/2023
50% CD	10/06/2023
100% CD	11/03/2023
PERMIT REVISION 01	07/31/2024

Job Number	30548.02
Date Published	07/31/2024
Checked By	JY
Scale	AS SHOWN

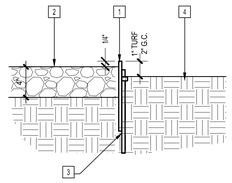
CONSTRUCTION DETAILS

L5.02



1 CONC. PAD; COLOR AND FINISH PER MATERIALS LEGEND
2 ADJACENT CONC. PAVING PER MATERIALS PLAN
3 TRASH RECEPTACLE PER DETAIL 11 / L5.03
4 PLANTING AREA
5 (4) 3/4" DIA ANCHORAGE BOLT

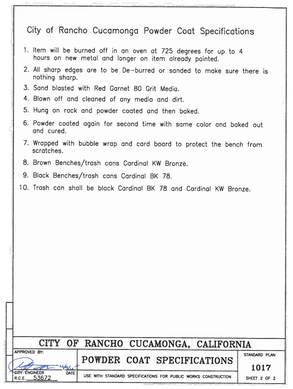
CONC. PAD AT TRASH RECEPTACLE — 1-1/2" = 1'-0" — 12



1 COR-TEN STEEL EDGEING; 8" SIZE. AVAILABLE FROM COR-TEN-STEEL USA (HESPERIA, CA)
2 RIVER ROCK; FINISH GRADE; COLOR REFER TO MATERIALS PLAN KEYNOTE LEGEND FOR FINISH $ COLOR.
3 GALVANIZED 18" STEEL SPIKE AT 18" O.C.
4 PLANTING AREA; FINISH GRADE

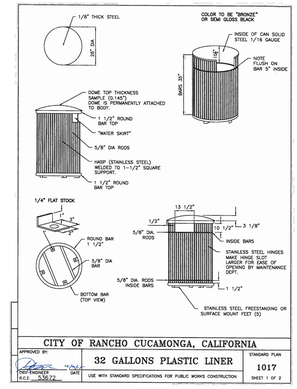
NOTE:
A. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
B. PROVIDE SHOP DRAWINGS FOR LANDSCAPE ARCHITECT & CLIENT REVIEW PRIOR TO FABRICATION.

COR-TEN STEEL EDGING — 1 1/2"=1'-0" — 04


City of Rancho Cucamonga Powder Coat Specifications

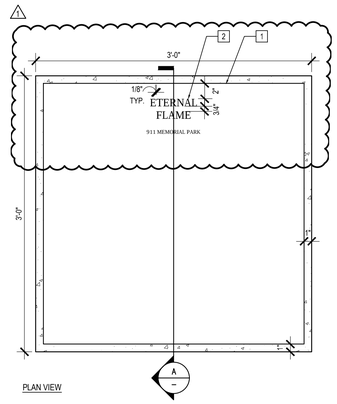
1. Item will be burned off in an oven at 725 degrees for up to 4 hours on new metal and longer on item already painted.
2. All sharp edges are to be De-burred or sanded to make sure there is nothing sharp.
3. Sand blasted with Red Garnet 80 Grit Media.
4. Blown off and cleaned of any media and dirt.
5. Hung on rack and powder coated and then baked.
6. Powder coated again for second time with same color and baked out and cured.
7. Wrapped with bubble wrap and card board to protect the bench from scratches.
8. Brown Benches/trash cans Cardinal KW Bronze.
9. Black Benches/trash cans Cardinal BK 78.
10. Trash can shall be black Cardinal BK 78 and Cardinal KW Bronze.

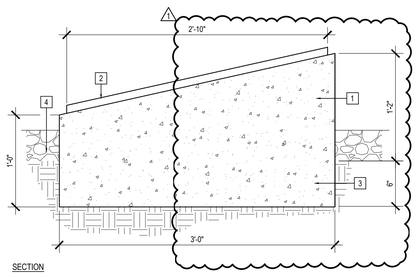
CITY OF RANCHO CUCAMONGA, CALIFORNIA
POWDER COAT SPECIFICATIONS
USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
STANDARD PLAN 1017 SHEET 2 OF 2



CITY OF RANCHO CUCAMONGA, CALIFORNIA
32 GALLONS PLASTIC LINER
USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
STANDARD PLAN 1017 SHEET 1 OF 2

TRASH RECEPTACLE — NTS — 11





SECTION

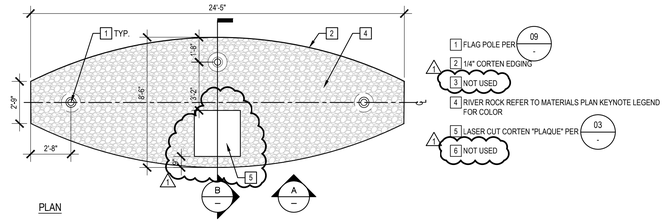
1 CONCRETE BASE
2 LASER CUT CORTEN PLAQUE FOR ETERNAL FLAME
3 CONCRETE BASE FOOTING
4 RIVER ROCK; FINISH GRADE; COLOR REFER TO 01 / -

MEMORIAL PLAQUE — 1 1/2"=1'-0" — 03

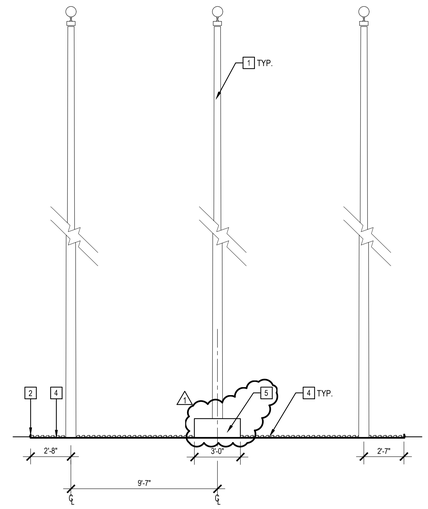
1 L.Ph. BOLANDER & SONS STANDARD GROUND SET CONE TAPERED ALUM. FLAGPOLES CAM CLEAT CONCEALED HALYARD MODEL: ETJS35' (TYP. FOR 3)
2 FLAGPOLE FOOTING AND REINFORCING PER 01 / S1.01
3 SPUN ALUM. COLLAR. COLLAR PERIMETER TO BE CAULKED.
4 FINISH GRADE
5 3/4" STEEL LIGHTNING SPIKE.
6 STEEL WEDGES, SHOP WELDED, E UALLY SPACED AT 90
7 3/16" STEEL BASE PLATE WELDED TO SLEEVE.
8 16 GA. CORRUGATED STEEL, GALV. GROUND SLEEVE ASSEMBLY
9 COMPACTED SUBGRADE PER 01 / L5.01
10 DRY SAND
11 RIVER ROCK PER 04 / -

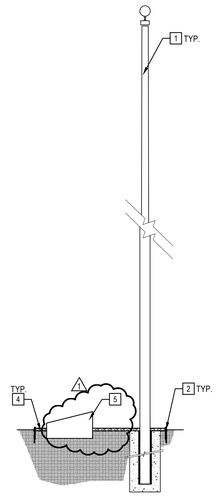
NOTE:
1. FLAGPOLE DESIGNED FOR A 4' X 6' MAX. FLAG.
2. 4'-0" HEIGHT OF INTERNAL CAM CLEAT.
3. CONCRETE BATCH PLANT INSPECTION IS NOT REQUIRED

FLAGPOLE — 1/2" = 1'-0" — 09



1 FLAG POLE PER 09 / -
2 1/4" CORTEN EDGING
3 NOT USED
4 RIVER ROCK REFER TO MATERIALS PLAN KEYNOTE LEGEND FOR COLOR
5 LASER CUT CORTEN "PLAQUE" PER 03 / -
6 NOT USED





FLAG POLE AND MEMORIAL PLAQUE — 1/4" = 1'-0" — 01

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue,
Suite 100
Irvine, California 92617

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

This document and all other project documents, ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are copyright protected, are the property of LPA, Inc. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as set forth in the contractual agreement between LPA and its Client. The unauthorized disclosure and/or use of the project documents (including the creation of derivative works), may give rise to liability for copyright infringement, unlawful disclosure, use or misappropriation of property rights held by LPA. The unauthorized use of the project documents will give rise to the recovery of monetary losses and damages including attorney fees and costs for which the unauthorized user will be held liable.
Project documents describe the design intent of the work and are not a representation of as-built or existing conditions. LPA is not responsible for any discrepancies between the project documents and the existing conditions.
LPA I

MEMORIAL PARK
10597 TOWN CENTER DRIVE
RANCHO CUCAMONGA, CA 91730
Developed for
CITY OF RANCHO CUCAMONGA

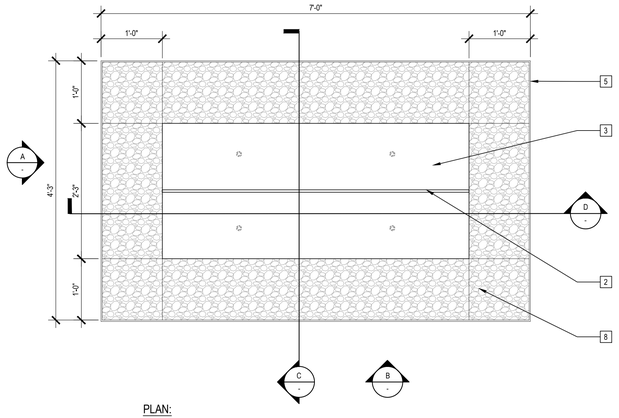
Revision	Date
1 VE CHANGES	07/31/2024

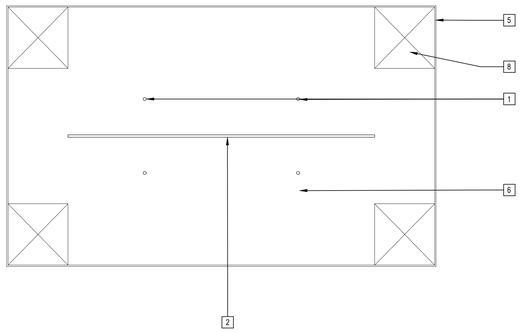
Submittal	Date
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/12/2023
50% CD	10/06/2023
100% CD	11/03/2023
PERMIT REVISION 01	07/31/2024

Job Number	30548.02
Date Published	07/31/2024
Checked By	JY
Scale	AS SHOWN

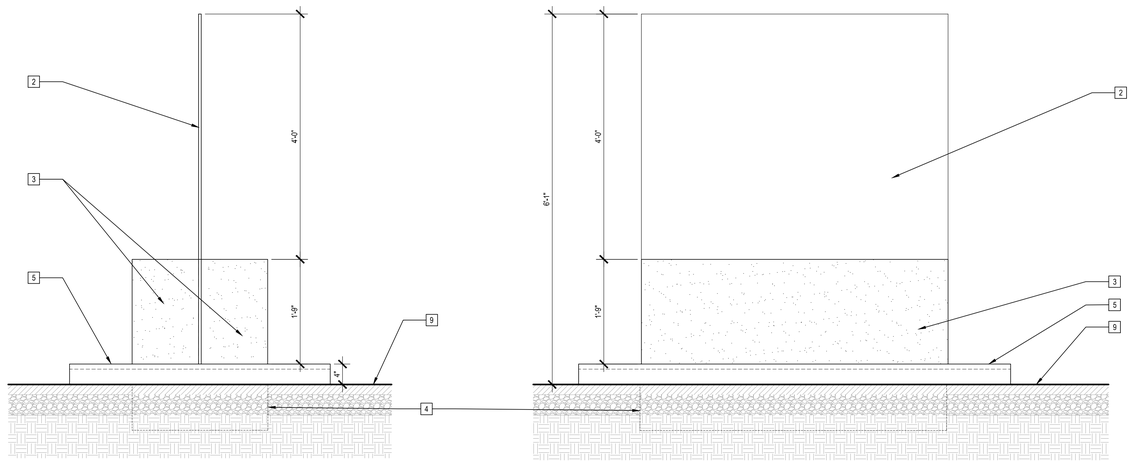
CONSTRUCTION DETAILS

L5.03



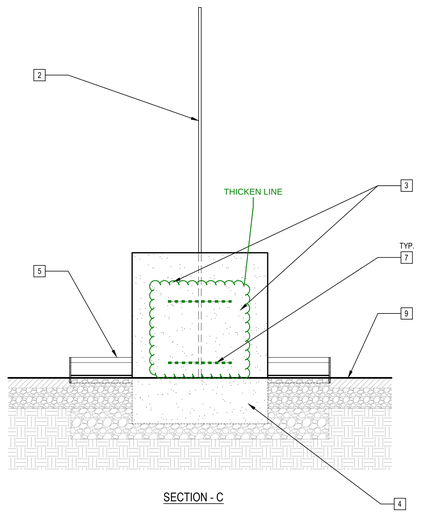


PLAN:

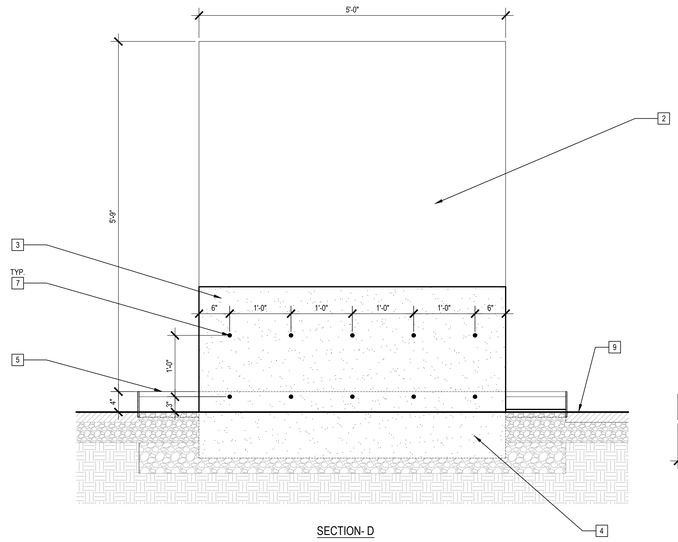


ELEVATION - A

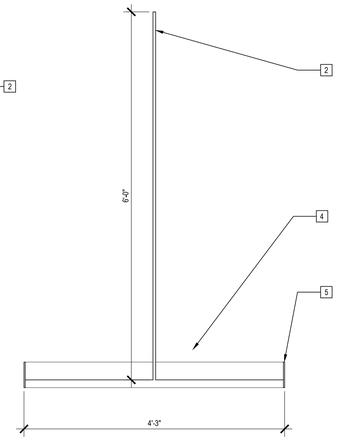
ELEVATION - B



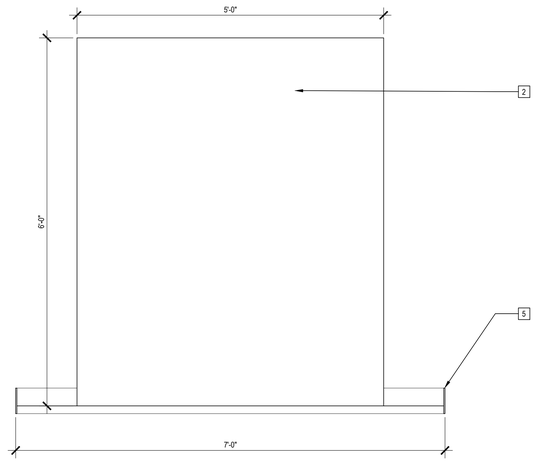
SECTION - C



SECTION- D



SECTION - E



SECTION - F

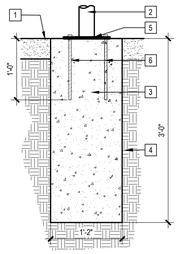
1. 5/8" X 6" WELDED CORTEN RODS
2. 1/2" THK. CORTEN
3. CAST IN PLACE CONCRETE WITH 4"X4" W4 WIRE MESH CENTERED IN WALL: CLAD CONCRETE W/ 1/2" BLACK GRANITE FACADE (TOP AND ALL SIDES)
4. CONCRETE FOOTING PER STRUCTURAL (03 / S1.01)
5. 1/4" X 5" CORTEN EDGING
6. 1/2" THK. CORTEN BASE PLATE
7. 3/4" DIA. X 6" WELDED-HEADED ANCHOR (BOTH SIDES)
8. OPEN TO FILL W/ POLISHED STONE/ OR RIVER ROCK, T.B.D., TYP.
9. FINISH SURFACE

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue,
Suite 100
Irvine, California 92617

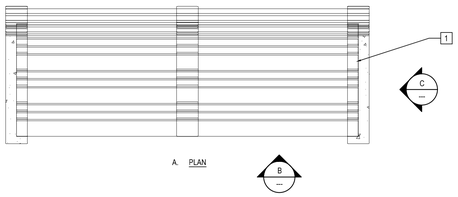
AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

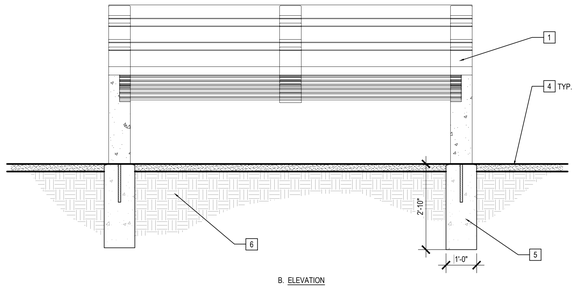
T□□ d □□□□ □□□□□d □□□□□□r r□□□□d □□□□ □□□□□ d□□□□□□□□□□□□ □d d□□□□ □□ □r□ r□d □□□□□□□□□□ □□r□ □□ □□□□ □□□□ □□□□ A□r □□□□□ d□□□□ □□□□ r□ □□□r r□□□□ □□□□d □ r□□□ □□□□ r□□□□LPA J□□□LPA,□□d □□□□□□□ □□□ □□□□ □□□d □□ □□□□□□ r □□□ r□□□ □□□ r□□□□□r □r □□□□ □□□□□□□ □□□□ r□ □□ □□□ □□□□□□□□□r□□□ □□□□ LPA □□d □□ C□□□□□ T □□ □□□□□□□□d □d □□□□□r□ □□□ d□ r □□□ □□□□ □□□□ □□□□□d□□ □□□ r□□□□ □□d r□□□□□ □□ □□□□ r □□ □□ □□□□ □r □□□ □□□□□□□□□ □□□□ □□□□ □d □□□□□□□r□□□□ r □ □□□□r□d □□□□□□□□ r □□□□□r□ □□ r□□□r□ □□ □□□□ LPA □□ □□□□□□□□□□d □□□ □□□□□□ r□□□□d □□□□ □□□□□ □□□ □□□□□□ r □□□□□ □□□ □□□□□ □□□ □□□□□ r□□ □□ □□□ r□□□□□□□□□□□ □□□□□□□□ □□□ □□□□□□□□ r□d □□□ r □□□□ □□d □□□□□□□
Pr□□□□ d □□□□ □□□□d □□r □□□ d□□□□ □□□□□□□□ □□□ □r□□ d □r□□□□□ r□r □□□□□□□□□□ □□□□□□□□□□ r □□□□□□□ □□d □□□□□□ LPA □□ □□□r □□□□□□□□□ □r □□□ d □□r □□□□□□□□□□ □□□□ □□□ □□□□d □□□□ □□□□ □□d □□□ □□□□□□□ □□d □□□□□□□□□□□□□



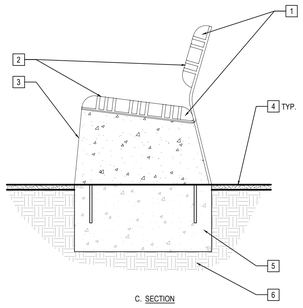
1 FINISH SURFACE ST DECOMPOSED GRANITE
2 SOLID STEEL BENCH 04/-
3 C.I.P. CONCRETE FOOTING
4 BASE MATERIAL AND COMPACTED SUBGRADE PER GEOTECHNICAL REPORT
5 BASE PLATE 04/-
6 3/4" X 12" ANCHOR BOLT (4 TOTAL)

STEEL □ENC□ □OOTING | 1"□1□0" | 20





B. ELEVATION



C. SECTION

1 MARWOOD BACKED BENCH. SF-87131
CONCRETE PALETTE COLOR: ALABASTER
METAL PALETTE: STEEL
WOOD PALETTE: IPE
2 S.S. FINISH
3 BUSH HAMMERED GRANITE BASE
4 FINISH SURFACE
5 CONCRETE FOOTING W/ EMBEDDED RODS/ PINNED CONNECTION
6 COMPACTED SUBGRADE
7 DECOMPOSED GRANITE PAVING PER 01/L5.01

MAR□ OOD □AC□ED □ENC□ | 1/2" □ 1□0" | 1□

City of Rancho Cucamonga Powder Coat Specifications

1. Item will be burned off in an oven at 725 degrees for up to 4 hours on new metal and longer on item already painted.
2. All sharp edges are to be De-burred or sanded to make sure there is nothing sharp.
3. Sand blasted with Red Garnet 80 Grit Media.
4. Blown off and cleaned of any media and dirt.
5. Hung on rack and powder coated and then baked.
6. Powder coated again for second time with same color and baked out and cured.
7. Wrapped with bubble wrap and card board to protect the bench from scratches.
8. Brown Benches/trash cans Cardinal KW Bronze.
9. Black Benches/trash cans Cardinal BK 78.
10. Trash can shall be black Cardinal BK 78 and Cardinal KW Bronze.

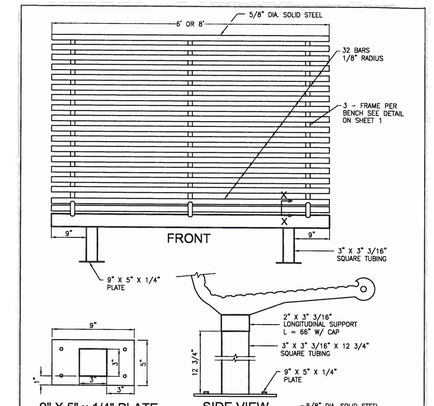
CITY OF RANCHO CUCAMONGA, CALIFORNIA

APPROVED BY: CITY ENGINEER R.C.E. 53672 DATE 4/4/16

POWDER COAT SPECIFICATIONS

USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

STANDARD PLAN 1016 SHEET 3 OF 3



NOTE:
1. ALL EDGES OF CUT OUT ARE SANDED.
2. ALL EXPOSE EDGES ARE TO BE SMOOTH.
3. FOR FOOTING DETAIL, REFER TO 20/-

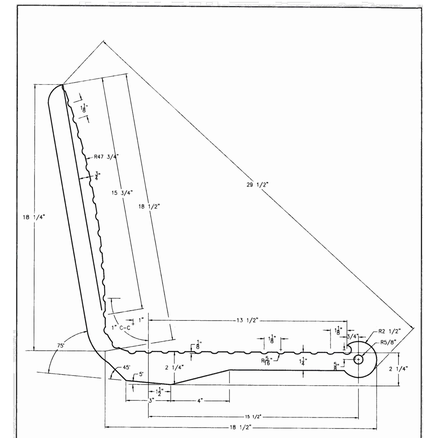
CITY OF RANCHO CUCAMONGA, CALIFORNIA

APPROVED BY: CITY ENGINEER R.C.E. 53672 DATE 4/4/16

5/8" SOLID STEEL BENCH

USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

STANDARD PLAN 1016 SHEET 2 OF 3



FRAME DETAIL

CITY OF RANCHO CUCAMONGA, CALIFORNIA

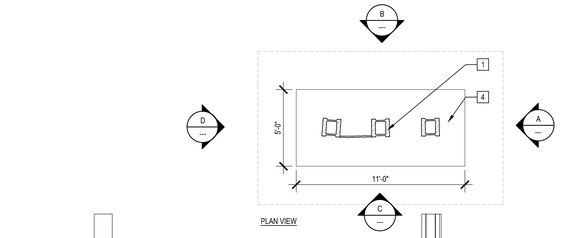
APPROVED BY: CITY ENGINEER R.C.E. 53672 DATE 4/4/16

8" COLD ROLLED SOLID STEEL BENCH

USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

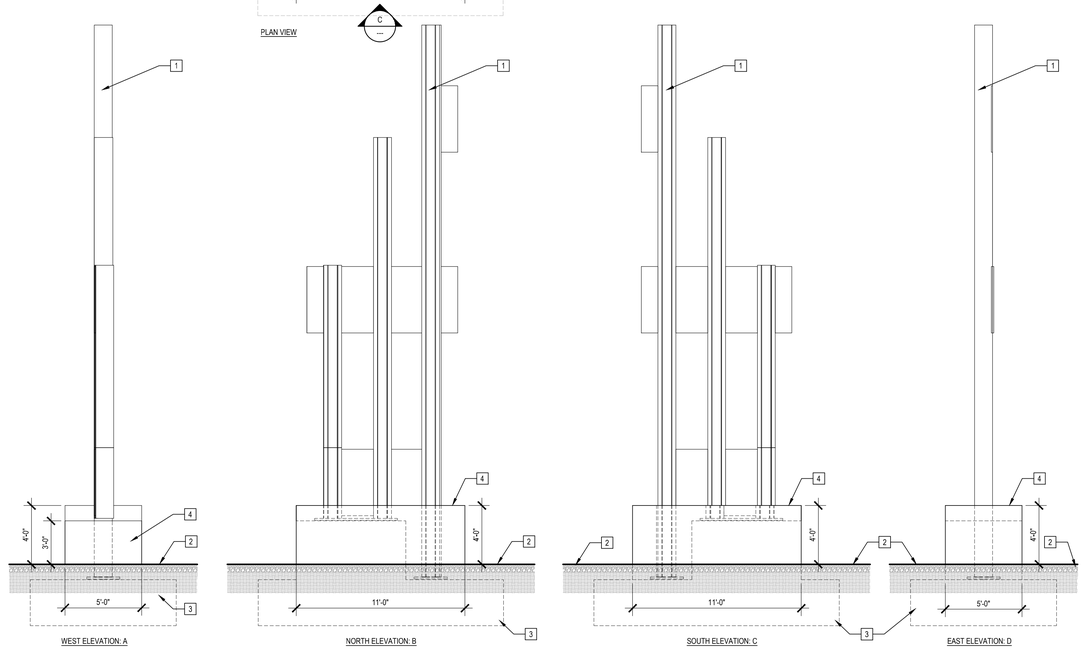
STANDARD PLAN 1016 SHEET 1 OF 3

SOLID STEEL □ENC□ | NTS | 0□



PLAN VIEW

1 WTC 911 STEEL ARTIFACT
2 FINISH SURFACE
3 MONUMENT FOUNDATION AND ANCHORAGE PER STRUCTURAL 01/S1.02
4 MONUMENT CONCRETE BASE, COLOR NATURAL GRAY AND SMOOTH FINISH



WEST ELEVATION: A | NORTH ELEVATION: B | SOUTH ELEVATION: C | EAST ELEVATION: D

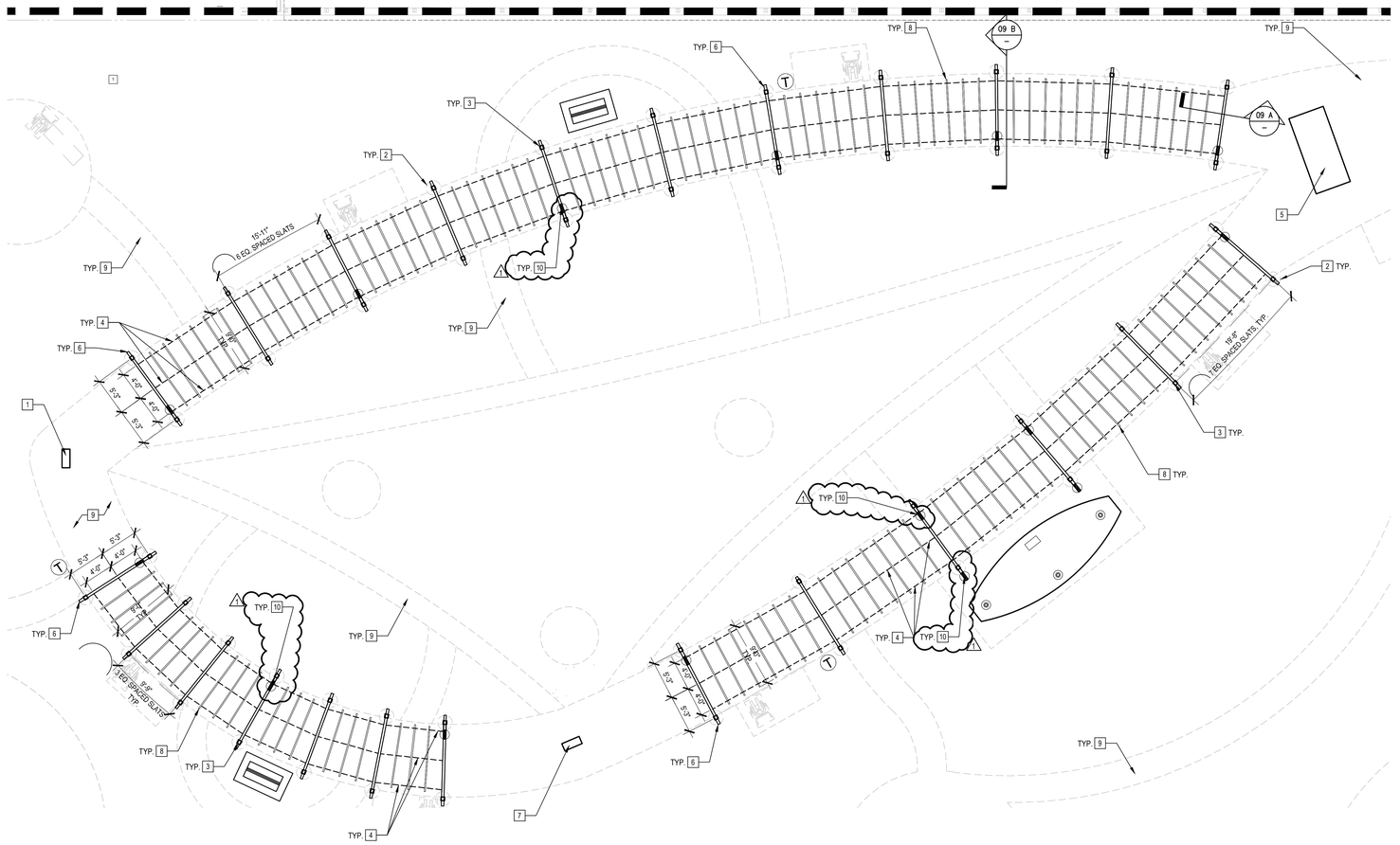
MEMORIAL | 1/4" □ 1□0" | 01

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue, Suite 100
Irvine, California 92617

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

T□□ d□□□ □□□□d □□□□□r r□□□□d□□□□ □□□□□ d□□□□□□□□□□ □d d□□□□ □□r□r□d□□□ □□r□□ r□ □□□□□□ □□□□ □□□□ A□r□□□□ d□□□ □□□□ r□ □□□r□r□□□□ r□□□r□□LPA□□□□LPA□□□d □□□□□□□ □□□□□□□ □□□d □□ □□□□□ r□ □□□r□□□ r□□□□□□□ □□□□□□□□□□ □□□□□□□□□□ □□ □□□□□□□□□□ □□□□□□□□□□ □□□□□□□□□



1 FLIGHT 93 ARTIFACTS, STAINLESS STEEL DISPLAY CASE WITH VANDAL RESISTANT GLAZING PER DETAIL 01 / L5.02

2 FOOTING AT EACH FRAME, PER STRUCTURAL 01 / S1.03

3 HSS 6X6 WALKWAY / LOWER SHADE CANOPY POSTS PER STRUCTURAL 05 / S2.01A

4 STAINLESS STEEL WIRE ROPE PER STRUCTURAL 09 / S1.03

5 STEEL MEMORIAL FROM WORLD TRADE CENTER TOWER, SEE DETAIL 01 / L5.05

6 CANOPY BEAM, TYP PER STRUCTURAL 07 / S1.03 05 / S2.02A

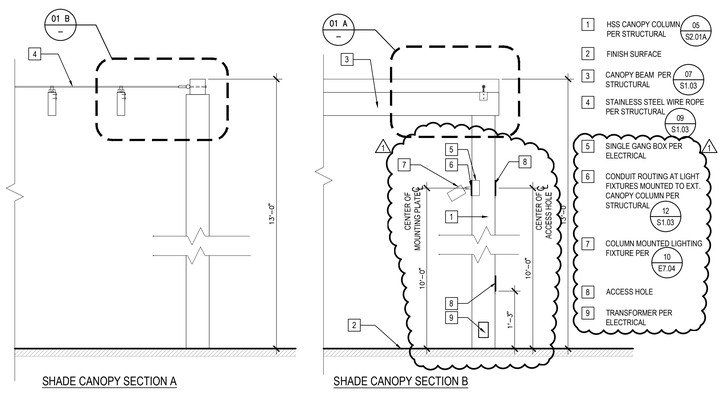
7 PENTAGON ARTIFACT, STAINLESS STEEL DISPLAY CASE WITH VANDAL RESISTANT GLAZING SIM. 01 / L5.02

8 2X6 KNOTWOOD ALUMINUM SLAT PER DETAIL 01 / –

9 DECOMPOSED GRANITE PER 01 / L1.01

10 COLUMN MOUNTED LIGHTING FIXTURE PER 10 / E7.04

SHADE CANOPY PLAN 1/8" = 1'-0" 02



1 HSS CANOPY COLUMN PER STRUCTURAL 05 / S2.01A

2 FINISH SURFACE

3 CANOPY BEAM PER STRUCTURAL 07 / S1.03

4 STAINLESS STEEL WIRE ROPE PER STRUCTURAL 09 / S1.03

5 SINGLE GANG BOX PER ELECTRICAL

6 CONDUIT ROUTING AT LIGHT FIXTURES MOUNTED TO EXT. CANOPY COLUMN PER STRUCTURAL 12 / S1.03

7 COLUMN MOUNTED LIGHTING FIXTURE PER 10 / E7.04

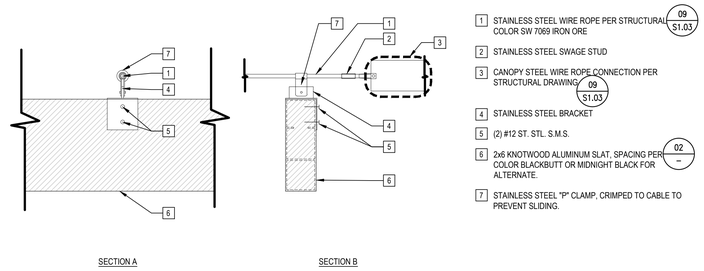
8 ACCESS HOLE

9 TRANSFORMER PER ELECTRICAL

SHADE CANOPY SECTION A

SHADE CANOPY SECTION B

SHADE CANOPY ELEVATIONS 3/4" = 1'-0" 09



SECTION A

SECTION B

1 STAINLESS STEEL WIRE ROPE PER STRUCTURAL COLOR SW 7069 IRON ORE 09 / S1.03

2 STAINLESS STEEL SWAGE STUD

3 CANOPY STEEL WIRE ROPE CONNECTION PER STRUCTURAL DRAWING 09 / S1.03

4 STAINLESS STEEL BRACKET

5 (2) #12 ST. STL. S.M.S.

6 2x6 KNOTWOOD ALUMINUM SLAT, SPACING PER 02 / – COLOR BLACKBUTT OR MIDNIGHT BLACK FOR ALTERNATE.

7 STAINLESS STEEL "P" CLAMP, CRIMPED TO CABLE TO PREVENT SLIDING.

SHADE SECTION DETAIL 3" = 1'-0" 01

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue,
Suite 100
Irvine, California 92617

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

This document and all other project documents, ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are copyright protected, are the property of LPA, Inc. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as set forth in the contractual agreement between LPA and its Client. The unauthorized disclosure and/or use of the project documents (including the creation of derivative works), may give rise to liability for copyright infringement, unlawful disclosure, use or misappropriation of property rights held by LPA. The unauthorized use of the project documents will give rise to the recovery of monetary losses and damages including attorney fees and costs for which the unauthorized user will be held liable.
Project documents describe the design intent of the work and are not a representation of as-built or existing conditions. LPA is not responsible for any discrepancies between the project documents and the existing conditions.
LPA I

MEMORIAL PARK

10597 TOWN CENTER DRIVE
RANCHO CUCAMONGA, CA 91730

Developed for
CITY OF RANCHO CUCAMONGA

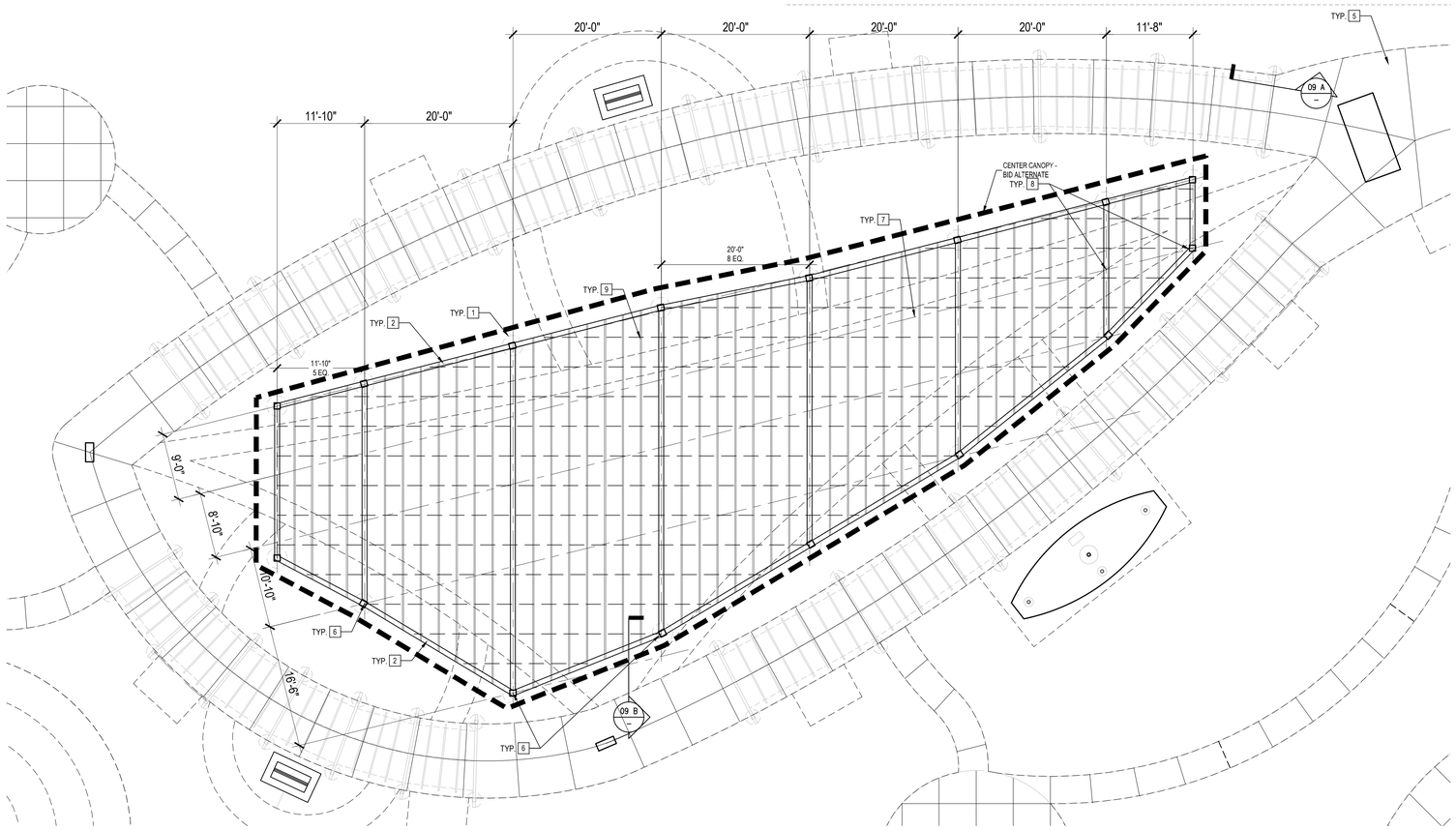
Revision	Date
1 VE CHANGES	07/31/2024

Submittal	Date
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/12/2023
50% CD	10/06/2023
100% CD	11/03/2023
PERMIT REVISION 01	07/31/2024

Job Number	30548.02
Date Published	07/31/2024
Checked By	JY
Scale	AS SHOWN

CONSTRUCTION DETAILS

L5.06



1 FOOTING AT EACH COLUMN, PER STRUCTURAL (01/S1.01)
2 HSS AT PERIMETER, TYP AT UPPER SHADE PER STRUCTURAL (05/S2.02B)
3 STEPPED PEDESTAL PER STRUCTURAL
4 STEPPED FOOTING PER STRUCTURAL
5 CONCRETE PAVING PER (01/L5.06)
6 HSS 10X10 COLUMN, TYP AT UPPER SHADE PER STRUCTURAL (05/S2.01B)
7 1/2" DIA STAINLESS STEEL WIRE ROPE, TYP
8 CONNECTOR FOR CROSSING WIRE ROPE, EACH INTERSECTION TYP. (09/S1.03)
9 2X6 KNOTWOOD ALUMINUM SLAT (09/L5.06)

S□ADE CANOP□ PLAN □□ID ALTERNATES | 1/4" □ 1'-0" | 01

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue,
Suite 100
Irvine, California 92617

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

T□□ d□□□□ □□□□□d □□□□□□r □r□□□□d□□□□ □□□□□ d□□□□□□□□□□□□ □□d d□□□□□ □□□r□r□□d □□□r□□□ □r□ □□□r□□□ □□□□ □□□□r□□□□ A□r□□□□ d□□□□ □□□□r□ □□□r□r□□□□r□□□□d□r□□□ □r□□□ r□□LPA□I□□□LPA□□□d □□□□□□□□ □□□□□□□□ □□□d □□ □□□□□□r□ □□□□r□□□□r□ □□□□□□□□ □□□□r□□ □□□□□□□□ □□□□r□ □□□□□□□□□□□□□

WATER PRESSURE LOSS CALCULATIONS

WATER METER NUMBER	1	WATER METER SIZE (Inches)	1.50
HYDRAULIC GRADE LINE (FT)	0	WATER METER ELEVATION (FT)	0
ELEVATION DIFFERENCE (FT)	0	STATIC PRESSURE (PSI)	75.0
REMOTE CONTROL VALVE #	44	REMOTE CONTROL VALVE SIZE (In.)	1.50
R.C.V. DEMAND (GPM)	25	TOTAL DEMAND (GPM)	25
HIGHEST HEAD SERVED (FT)	0	STATIC PRESSURE AT HIGHEST HEAD	0.0

sweeney + associates
IRRIGATION DESIGN AND CONSULTING

PRESSURE LOSS CALCULATION IS PROVIDED FOR THIS PROJECT BY SWEENEY & ASSOCIATES, INC. UNAUTHORIZED USE BY ANY OTHER PERSON, COMPANY OR PROJECT IS FORBIDDEN WITHOUT WRITTEN PERMISSION.

SIZE (Inches)	DESCRIPTION	FLOW	#	LOSS	
1.50	SERVICE LINE (50 FT OF TYPE K COPPER)	25	1	1.50	PSI
1.50	WATER METER (XXXX TYPE)	25	2	1.40	PSI
1.50	BACKFLOW PREVENTER (R/P TYPE)	25	3	12.00	PSI
1.50	FILTRATION (WYE FILTER)	25	4	1.00	PSI
1.50	BFD ASSEMBLY PIPING (BRASS W/ 4 ELLS)	25	6	1.79	PSI
1.50	MASTER CONTROL VALVE	25	7	1.53	PSI
1.50	FLOW SENSOR	25	8	1.00	PSI
2.00	ISOLATION VALVES (BALL TYPE)	25	9	1.00	PSI
2.00	575 FEET OF MAINLINE: CL. 315 PVC	25	10	3.68	PSI
2.00	10 - 90 DEGREE ELBOWS	25	13	1.09	PSI
1.50	REMOTE CONTROL VALVE ASSEMBLY	25	14	3.50	PSI
10%	LATERAL LINE LOSSES	25	15	3.00	PSI
20%	FITTING LOSS (IN ADDITION TO ELBOWS SHOWN)	N/A	16	0.74	PSI
0.00	ELEVATION CHANGE (P.O.C. TO HIGHEST HEAD)	N/A	17	0.00	PSI
	TOTAL SYSTEM PRESSURE LOSS (SUM OF #1 THRU #17)		18	33.2	PSI
	PRESSURE REQUIRED AT HEAD (OPERATING PRESSURE)		19	30.0	PSI
	TOTAL PRESSURE REQUIRED (SUM OF #18 AND #19)		20	63.2	PSI
	STATIC WATER PRESSURE (FROM ABOVE)		21	75.0	PSI
	RESIDUAL PRESSURE (SUBTRACT #20 FROM #21)		22	11.8	PSI
	SET PRV OR MCV AT (#20 PLUS 10 PSI)		23	73.2	PSI
	PRESSURE BOOST, IF REQUIRED (SET TO ACHIEVE 20 PSI RESIDUAL)		24	N/A	PSI

NOTE A:
POINT OF CONNECTION (POC) #1 SHALL BE A 1 1/2" DOMESTIC WATER METER WITH A 1 1/2" SERVICE LINE. THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION, WATER TYPE, METER SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. MEASUREMENT OF THE STATIC (NO WATER MOVING) WATER PRESSURE IS ACCEPTABLE FOR POTABLE WATER SYSTEMS WHERE NO PUMP HAS BEEN INDICATED ON THESE PLANS. WHEN USING RECYCLED WATER, OR ON POTABLE WATER SYSTEMS REQUIRING A PUMP, ONLY THE MEASUREMENT OF DYNAMIC (WATER MOVING THROUGH THE METER) WATER PRESSURE, SHALL BE ACCEPTABLE. THE DYNAMIC WATER PRESSURE SHALL BE MEASURED AT THE MAXIMUM SYSTEM DEMAND AS INDICATED BELOW. IF ANY OF THE POC INFORMATION SHOWN ON THESE DRAWING IS FOUND TO BE DIFFERENT THAN THE ACTUAL POC INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT. SHOULD THE CONTRACTOR FAIL TO VERIFY THE POC INFORMATION AS SHOWN HEREIN, ANY CHANGES REQUIRED BY LOW PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

WATER PRESSURE AT POC: 75 PSI (STATIC)
DESIGN WATER PRESSURE: 63 PSI
MAXIMUM SYSTEM DEMAND: 25 GPM
RESIDUAL WATER PRESSURE: 12 PSI

NOTE B:
CONTROLLER "A" SHALL BE OF THE BRAND, MODEL AND STATION SIZE AS INDICATED ON THE IRRIGATION MATERIALS LEGEND. THE CONTROLLER SHALL BE INSTALLED IN THE APPROXIMATE LOCATION SHOWN. THE CONTRACTOR SHALL COORDINATE THE REQUIRED ELECTRICAL POWER SUPPLY AT THIS LOCATION WITH THE OWNER'S AUTHORIZED REPRESENTATIVE. FINAL LOCATION OF CONTROLLER AND ELECTRICAL POINT OF CONNECTION SHALL BE CONFIRMED WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE C:
THESE PLANS ARE DIAGRAMMATIC, THE MAINLINE AND RELATED IRRIGATION EQUIPMENT IS SHOWN WITHIN THE PAVING FOR CLARITY ONLY. THE ACTUAL LOCATION OF MAINLINE AND RELATED IRRIGATION EQUIPMENT SHALL BE WITHIN PLANTER AND A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES, TYPICAL.

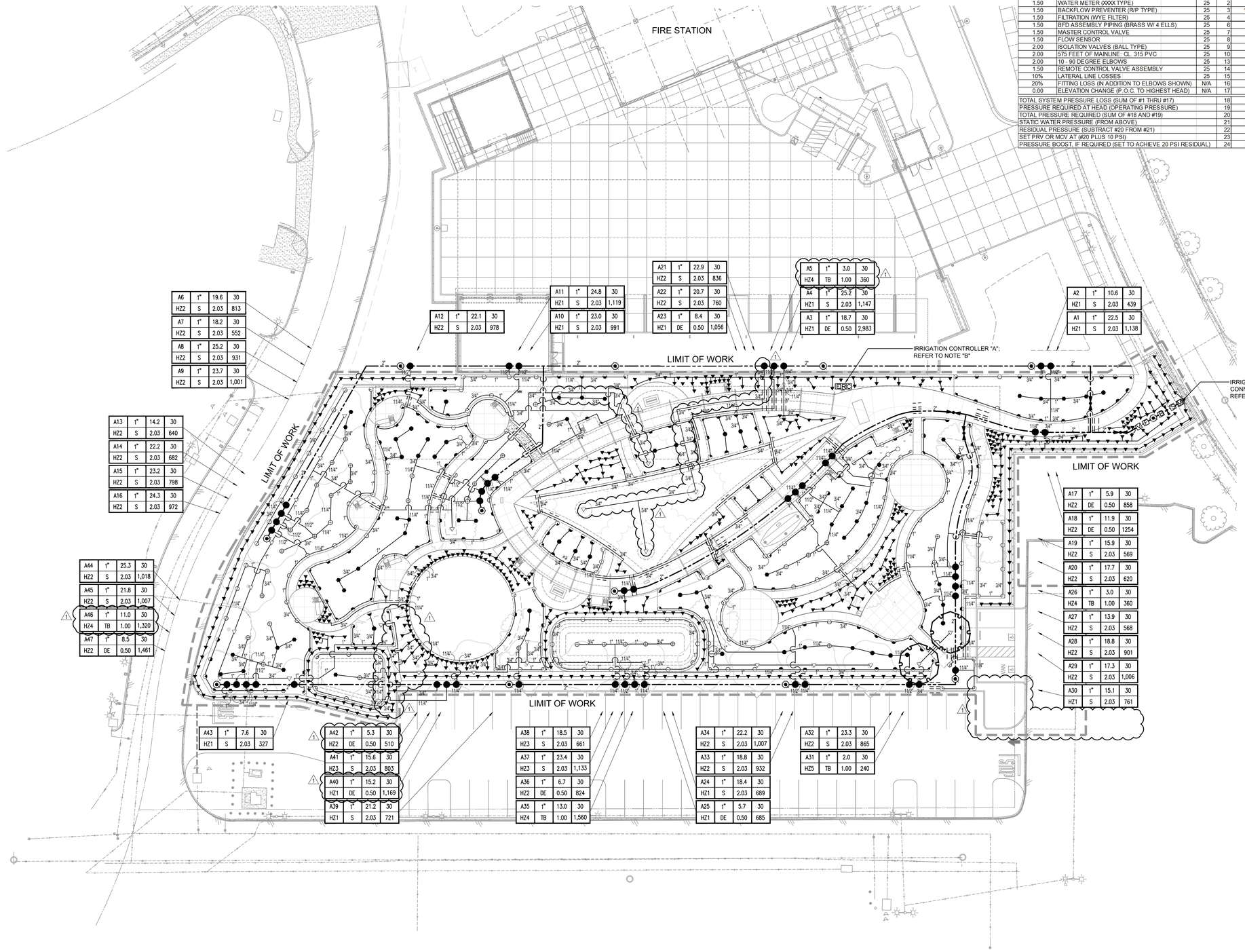
NOTE D:
CONTRACTOR SHALL ADJUST ALL HEADS AS REQUIRED TO ACCOMMODATE ANY VERTICAL OBSTRUCTIONS THAT MAY OCCUR IN THE LANDSCAPE, INCLUDING BUT NOT LIMITED TO LIGHT POLES, FIRE HYDRANTS, TREES, ETC. WHEN A SLIGHT RELOCATION OF THE HEAD IS NOT SUFFICIENT TO CLEAR THE OBSTACLE, OR IF IT NEGATIVELY AFFECTS THE COVERAGE, AN ADDITIONAL HEAD SHALL BE INSTALLED TO PLACE ONE HEAD ON EITHER SIDE OF THE OBSTACLE. THE NOZZLES OF THESE TWO HEADS SHALL HAVE ARC PATTERNS THAT ADD UP TO THE ORIGINAL ARC PATTERN OF THE HEAD INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY ALL HEAD LAYOUT WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE E:
THESE PLANS ARE DIAGRAMMATIC, TREE BUBBLERS AND LATERAL LINES ARE SHOWN WITHIN THE PAVING FOR CLARITY ONLY, THE ACTUAL LOCATIONS SHALL BE WITHIN THE PLANTER. THE TREE BUBBLERS SHALL BE ALIGNED WITH TREES AS SHOWN ON THE PLANTING PLANS, AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE F:
PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE OWNER AND LANDSCAPE ARCHITECT A SCALED SHOP DRAWING INDICATING THE PROPOSED LOCATIONS FOR THE IRRIGATION EQUIPMENT LISTED BELOW. THE SHOP DRAWING SHALL BE PREPARED TO THE SATISFACTION OF THE OWNER AND LANDSCAPE ARCHITECT. SHOP DRAWINGS MUST INCLUDE THE PROPOSED LOCATIONS FOR THE FOLLOWING ITEMS:

1. POINT OF CONNECTION (INCLUDING WATER POC, BACK FLOW DEVICES, MASTER CONTROL VALVES, FLOW SENSORS, ETC.)
2. ISOLATION VALVES
3. AUTOMATIC CONTROL VALVES (INDICATE STATION NUMBER)
4. QUICK COUPLING VALVES
5. IRRIGATION CONTROLLER(S)
6. RELATED EQUIPMENT (AS MAY BE DIRECTED).

EACH PIECE OF AFOREMENTIONED EQUIPMENT SHALL HAVE IT'S PROPOSED INSTALLED LOCATION SHOWN ON THE SHOP DRAWINGS. THE SYMBOL FOR EACH PRODUCT SHALL BE A SCALED REPRESENTATION OF THE FOOTPRINT OF THE EQUIPMENT OR THE VALVE BOX IN WHICH THE EQUIPMENT IS INSTALLED. CONTRACTOR SHALL INSTALL ALL VALVE BOXES AND RELATED EQUIPMENT PER THE OWNER APPROVED SHOP DRAWINGS. ONCE THE SHOP DRAWING LOCATIONS ARE APPROVED, THE LANDSCAPE ARCHITECT OR OWNER'S AUTHORIZED REPRESENTATIVE WILL ALLOW NO ADJUSTMENTS TO THE APPROVED VALVE BOX PLACEMENT WITHOUT PRIOR WRITTEN ACCEPTANCE. ANY IRRIGATION EQUIPMENT INSTALLED WITHOUT PRIOR APPROVAL WITH SHOP DRAWINGS WILL BE SUBJECT TO RELOCATION BASED ON DIRECTION BY THE LANDSCAPE ARCHITECT AT THE CONTRACTOR'S EXPENSE.



IRRIGATION PLAN | 1" = 20' | 01

N

I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

I AGREE TO COMPLY WITH THE REQUIREMENTS OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND SUBMIT A COMPLETE LANDSCAPE DOCUMENTATION PACKAGE
SIGNATURE: DATE: 11-13-23

811

sweeney + associates
IRRIGATION DESIGN AND CONSULTING
38730 Sky Canyon Drive, Suite C
Murrieta, Ca 92563
e: info@sweeneyassoc.com t: (951) 461-6850
w: www.sweeneyassoc.com f: (951) 461-6850

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-889-1007 Office
949-889-1790 Fax
LPADesignStudios.com
5301 California Avenue
Suite 100
Irvine, California 92617

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

This document and all other project documents, ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are copyright protected, are the property of LPA, Inc. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as set forth in the contractual agreement between LPA and its Client. The unauthorized disclosure and/or use of the project documents (including the creation of derivative works), may give rise to liability for copyright infringement, unlawful disclosure, use or misappropriation of property rights held by LPA. The unauthorized use of the project documents will give rise to the recovery of monetary losses and damages including attorney fees and costs for which the unauthorized user will be held liable.
Project documents describe the design intent of the work and are not a representation of as-built or existing conditions. LPA is not responsible for any discrepancies between the project documents and the existing conditions.

© LPA, Inc.

MEMORIAL PARK
10597 TOWN CENTER DRIVE
RANCHO CUCAMONGA, CA 91730
Developed for
CITY OF RANCHO CUCAMONGA

Revision	Date
1 VE CHANGES	07/31/2024

Submittal	Date
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/12/2023
50% CD	10/06/2023
100% CD	11/03/2023
PERMIT REVISION 01	07/31/2024

Job Number	30548.02
Date Published	07/31/2024
Checked By	JY
Scale	AS SHOWN

IRRIGATION PLAN

L6.01

WATER EFFICIENT LANDSCAPE WORKSHEET

This worksheet is filled out by the project applicant and it is a required element of the Landscape Documentation Package

Project Name: Rancho Cucamonga Fire Station #178

Project Address: Town Center Drive, Rancho Cycamonga, California 91730

sweeney + associates — IRRIGATION DESIGN AND CONSULTING

Reference Evapotranspiration (ETo) 55.7 In./Yr. **Residential Project?** No

Hydrozone # / Planting Description[a]	Plant Factor	Irrigation Method[b]	Irrigation Efficiency (IE)[c]	ETAF (PF / IE)	Landscape Area (Sq. Ft.)	ETAF x Area	Estimated Total Water Use (ETWU)[d]
Regular Landscape Areas							
1. Low Water Use Plantings	0.20	Overhead	0.75	0.27	13,236	3,574	123,415
2. Moderate Water Use Plantings	0.40	Overhead	0.75	0.54	22,433	12,114	418,339
3. Low Water Use Bioswale	0.20	Overhead	0.75	0.27	2,597	701	24,215
4. Low Water Use Trees	0.30	Bubblers	0.81	0.38	3,600	1,368	47,243
5. Medium Water Use Trees	0.40	Bubblers	0.81	0.50	240	120	4,144
				Totals:	42,106	17,877	
				Estimated Total Water Use (ETWU) Total:			617,355
				Maximum Applied Water Allowance (MAWA)[e]:			654,340

[a] **Hydrozone # / Planting Description** — *E.g. 1.) Front Lawn; 2.) Low Water Use Plantings; 3.) Medium Water Use Plantings*

[b] **Irrigation Method** — *Overhead Spray of Drip*

[c] **Irrigation Efficiency** — *0.75 for Spray; 0.81 for Drip*

*[d] **ETWU (Annual Gallons Required)** = ETo x 0.62 x ETAF x Area*

Where 0.62 is a conversion factor that converts acre-inches/acre/year to gallons/square foot/year.

*[e] **MAWA (Annual Gallons Allowed)** = ETo x 0.62 x [(ETAF x LA) + ((1 - ETAF) x SLA)]*

Where 0.62 is a conversion factor that converts acre-inches/acre/year to gallons/square foot/year, LA is the total landscape area in square feet, SLA is the total special landscape area in square feet, and ETAF is 0.55 for residential projects and 0.45 for non-residential projects.

Evapotranspiration Adjustment Factor (ETAF) Calculations

This non-residential project complies with the WELO and its average ETAF is less than 0.45

Regular Landscape Areas	
Total ETAF x Area	17,877
Total Area	42,106
Average ETAF	**0.42**

All Landscape Areas	
Total ETAF x Area	17,877
Total Area	42,106
Average ETAF	**0.42**

IRRIGATION NOTES

1. ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.
3. THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTURAL PLANS BEFORE BEGINNING WORK.
4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
5. THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREAS.
6. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN CONDITIONS EXIST THAT WERE NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO ANY WORK OR THE IRRIGATION CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE OWNER.
7. INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH LOCAL CITY, COUNTY AND STATE REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.
8. ACTUAL LOCATION FOR THE INSTALLATION OF THE BACKFLOW PREVENTER AND THE AUTOMATIC CONTROLLER IS TO BE DETERMINED IN THE FIELD BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
9. CONTRACTOR IS TO PROVIDE AN ADDITIONAL PILOT WIRE FROM CONTROLLER ALONG ENTIRETY OF MAIN LINE TO THE LAST RCV ON EACH AND EVERY LEG OF MAIN LINE. LABEL SPARE WIRES AT BOTH ENDS.
10. ALL PIPE UNDER PAVED AREAS TO BE INSTALLED IN SLEEVING TWICE THE DIAMETER OF THE PIPE CARRIED. SEE LEGEND FOR TYPE. ALL WIRE UNDER PAVED AREAS TO BE INSTALLED IN A SCH. 40 SLEEVE THE SIZE REQUIRED TO EASILY PULL WIRE THROUGH. ALL SLEEVES TO BE INSTALLED WITH A MINIMUM DEPTH AS SHOWN ON THE SLEEVING DETAILS. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.
11. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED IN SHRUB OR GROUND COVER AREAS WHERE POSSIBLE. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED AS SHOWN ON THE INSTALLATION DETAILS. INSTALL ALL QUICK COUPLER AND REMOTE CONTROL VALVES WITHIN 18" OF HARDSCAPE.
12. ALL HEADS ARE TO BE INSTALLED WITH THE NOZZLE, SCREEN AND ARCS SHOWN ON THE PLANS. ALL HEADS ARE TO BE ADJUSTED TO PREVENT OVERSPRAY ONTO BUILDINGS, WALLS, FENCES AND HARDSCAPE. THIS INCLUDES, BUT NOT LIMITED TO, ADJUSTMENT OF DIFFUSER PIN OR ADJUSTMENT SCREW, REPLACEMENT OF PRESSURE COMPENSATING SCREENS, REPLACEMENT OF NOZZLES WITH MORE APPROPRIATE RADIUS UNITS AND THE REPLACEMENT OF NOZZLES WITH ADJUSTABLE ARC UNITS.
13. CONTRACTOR SHALL INSTALL ADDITIONAL CHECK VALVES TO HEADS AND LATERALS AS REQUIRED TO PREVENT LOW HEAD DRAINAGE.
14. THE CONTRACTOR SHALL USE PROPER GROUNDING TECHNIQUES FOR GROUNDING THE CONTROLLER AND RELATED EQUIPMENT PER MANUFACTURERS SPECIFICATIONS. SWEENEY AND ASSOCIATES RECOMMENDS MEASURING FOR PROPER GROUND AT LEAST ONCE ANNUALLY, AND NECESSARY ADJUSTMENTS MADE TO COMPLY WITH MANUFACTURER SPECIFICATIONS.
15. THE CONTRACTOR IS REQUIRED TO CONTACT DIGALERT OR 811 A MINIMUM OF TWO (2) DAYS PRIOR TO THE START OF ANY EXCAVATIONS ON THE PROJECT AND SPECIFICALLY PRIOR TO THE INSTALLATION OF ANY GROUNDING RODS. DIAL 811 OR LOG ONTO WWW.DIGALERT.ORG TO START A PROJECT TICKET. DIGALERT AND 811 IS A FREE SERVICE PROVIDED TO THE PROJECT. FAILURE TO CONTACT AND HAVE THE EXISTING UTILITIES IDENTIFIED, LOCATED AND MARKED SHALL MAKE THE CONTRACTOR SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGES.

IRRIGATION CONTROLLER RUN TIMES

POC or Controller: A

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total / Avg.
ETo / Month (Inches):	2.20	2.70	3.70	4.70	5.50	5.80	6.20	5.90	5.00	3.90	2.60	1.90	**50.10**
ETo / Day (Inches):	0.07	0.10	0.12	0.16	0.18	0.19	0.20	0.19	0.17	0.13	0.09	0.06	**0.14**
Irrigation Days / Week:	3	4	4	5	5	6	6	6	5	4	4	3	

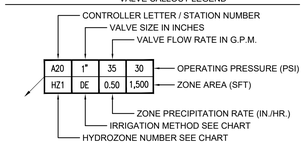
Plant / Irrig. Type	AKc	Pr Rate	IE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Low Water Use Plantings	0.20	0.50	0.81	4.9	5.0	6.2	6.5	7.4	6.7	6.9	6.6	6.9	6.5	4.5	4.2	Min./Day/Zone
Point Source Drip	**Number of Zones:**		4	**19.6**	**20.0**	**24.8**	**26.0**	**29.4**	**26.7**	**27.7**	**26.3**	**27.7**	**26.1**	**18.0**	**16.9**	**Total Min./Day**
Low Water Use Plantings	0.20	1.83	0.75	1.4	1.5	1.8	1.9	2.2	2.0	2.0	1.9	1.9	1.3	1.3	1.3	Min./Day/Zone
Spray	**Number of Zones:**		9	**13.0**	**13.3**	**16.4**	**17.3**	**19.5**	**17.7**	**18.4**	**17.5**	**18.4**	**17.3**	**11.9**	**11.3**	**Total Min./Day**
Low Water Use Bioswale	0.30	1.74	0.75	2.3	2.3	2.9	3.0	3.4	3.1	3.2	3.1	3.2	3.0	2.1	2.0	Min./Day/Zone
Spray	**Number of Zones:**		3	**6.9**	**7.0**	**8.6**	**9.1**	**10.3**	**9.3**	**9.7**	**9.2**	**9.7**	**9.1**	**6.3**	**5.9**	**Total Min./Day**
Moderate Water Use Plantings	0.40	0.50	0.81	9.8	10.0	12.4	13.0	14.7	13.4	13.8	13.2	13.8	13.0	9.0	8.5	Min./Day/Zone
Point Source Drip	**Number of Zones:**		5	**49.1**	**50.0**	**61.9**	**65.0**	**73.6**	**66.8**	**69.1**	**65.8**	**69.1**	**65.2**	**44.9**	**42.4**	**Total Min./Day**
Moderate Water Use Plantings	0.40	1.83	0.75	2.9	3.0	3.7	3.8	4.3	3.9	4.1	3.9	4.1	3.8	2.7	2.5	Min./Day/Zone
Spray	**Number of Zones:**		21	**60.8**	**62.0**	**76.7**	**80.5**	**91.2**	**82.8**	**85.7**	**81.5**	**85.7**	**80.8**	**55.7**	**52.5**	**Total Min./Day**
Low Water Use Trees	0.30	1.00	0.81	3.7	3.8	4.6	4.9	5.5	5.0	5.2	4.9	5.2	4.9	3.4	3.2	Min./Day/Zone
Bubblers	**Number of Zones:**		4	**14.7**	**15.0**	**18.6**	**19.5**	**22.1**	**20.0**	**20.7**	**19.7**	**20.7**	**19.6**	**13.5**	**12.7**	**Total Min./Day**
Moderate Water Use Trees	0.40	1.00	0.81	4.9	5.0	6.2	6.5	7.4	6.7	6.9	6.6	6.9	6.5	4.5	4.2	Min./Day/Zone
Bubblers	**Number of Zones:**		1	**4.9**	**5.0**	**6.2**	**6.5**	**7.4**	**6.7**	**6.9**	**6.6**	**6.9**	**6.5**	**4.5**	**4.2**	**Total Min./Day**
Total Number of Zones:				**47**	169	172	213	224	254	230	238	227	238	225	155	146	Total Min./Day
Total Controller Run Time in Hours:				**2.82**	**2.87**	**3.55**	**3.73**	**4.23**	**3.84**	**3.97**	**3.78**	**3.97**	**3.74**	**2.58**	**2.43**	**Total Hrs./Day**
				JAN	**FEB**	**MAR**	**APR**	**MAY**	**JUN**	**JUL**	**AUG**	**SEP**	**OCT**	**NOV**	**DEC**	

Note: **These schedules are intended only for compliance with local municipal codes and the water efficient landscape ordinance. These calculations represent the MAXIMUM REASONABLE run times and are used to ensure that all irrigation may be completed during the specific watering window allowed. These schedules do not include rainfall, site soil types, specific exposures (shade versus sun), actual irrigation days, or specific slope position. It is solely the responsibility of the irrigation contractor to program the controller as required to apply the correct amount of irrigation water for the landscape. All smart controllers shall be programmed using the specified ET or weather sensing equipment, satellite provided ET data, soil moisture sensors, and rain shut off devices as required. Contractor shall provide a controller schedule inside the controller cabinet prior to final turnover of the project to the owner.**

IRRIGATION MATERIAL LEGEND

SYMBOL Q	T	H	F	MANUFACTURER	MODEL NO. / DESCRIPTION	FLOW RATE (GPM)	PSI	RADIUS	P.R. (TRI.)	DETAIL
◷	◷	◷	○	RAIN BIRD	RD-12-S-P30-F 12" POP-UP SHRUB HEAD WITH 8 SERIES HE-VAN ADJUSTABLE ARC NOZZLE	.29, .39, .59, 1.17	30	8 FT	2.03 IN./HR.	539
◔	◔	◓	●	RAIN BIRD	RD-12-S-P30-F 12" POP-UP SHRUB HEAD WITH 10 SERIES HE-VAN ADJUSTABLE ARC NOZZLE	.45, .59, .89, 1.78	30	10 FT	1.98 IN./HR.	539
◔	◔	◓	●	RAIN BIRD	RD-12-S-P30-F 12" POP-UP SHRUB HEAD WITH 12 SERIES HE-VAN ADJUSTABLE ARC NOZZLE	.59, .79, 1.18, 2.37	30	12 FT	1.83 IN./HR.	539
◷	◷	◒	⊕	RAIN BIRD	RD-12-S-P30-F 12" POP-UP SHRUB HEAD WITH 15 SERIES HE-VAN ADJUSTABLE ARC NOZZLE	.93, 1.23, 1.85, 3.70	30	15 FT	1.83 IN./HR.	539
	▽			RAIN BIRD	RD-06-S-P30-F 6" POP-UP BUBBLER HEAD WITH A HUNTER MSBN-50Q STREAM BUBBLER NOZZLE EACH SYMBOL REPRESENTS TWO (2) BUBBLERS TO PROVIDE A TOTAL OF TWO (2) BUBBLERS PER TREE. PLACE THE BUBBLER HEADS SIX (6) INCHES FROM THE ROOT BALL OF THE TREE AND ON OPPOSITE SIDES OF TREE. ADJUST BUBBLER STREAMS TO WET THE ROOT BALL AND ADJACENT AMENDED SOIL WITHOUT HITTING THE TRUNK OF THE TREE.	.50 (1.0 TOTAL)	30	1 FT	1.00 IN./HR.	539, A
	▼			HUNTER	HEB 40 DRIP EMITTER WITH HE-DIFF DIFFUSER CAP INSTALLED ON A HUNTER IH-18 FLEXIBLE RISER. EACH SYMBOL REPRESENTS TWO BUBBLERS PER SHRUB INSTALLED OVER THE SHRUBS ROOTBALL.	.066 (0.133 TOTAL)	30	N/A	0.50 IN./HR. (F)	B
	Ⓜ			P.O.C.	1 1/2" POTABLE (DOMESTIC) DEDICATED IRRIGATION WATER METER WITH 1 1/2" SERVICE LINE. VERIFY SIZE, LOCATION AND PRESSURE IN FIELD.					N/A
	Ⓑ			WILKINS	375XL-B, 1 1/2" R/P BACK FLOW PREVENTION DEVICE, INSTALL WITH BRASS NIPPLES, UNIONS AND FITTINGS, SIZED PER DEVICE					517-A, 526
	NO SYMBOL			V.I.T.	STRONG BOX SBBC-45SS "SMOOTH TOUCH" STAINLESS STEEL BACK FLOW DEVICE ENCLOSURE					517-A, 526, 543
	Ⓢ			WILKINS	SXL 1 1/2" WYE STRAINER WITH 20 MESH STAINLESS STEEL FILTER. INSTALL INSIDE A JUMBO RECTANGULAR VALVE BOX.					517-C, 526
	Ⓗ			HYDROPOINT / WEATHERTRAK	WT-FS-150-CST 1 1/2" PVC FLOW SENSOR, WIRE TO CONTROLLER USING TWO (2) #14UF AWG WIRES INSIDE A 1" SCH. 40 PVC (GRAY) ELECTRICAL CONDUIT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND INSIDE A STANDARD RECTANGULAR VALVE BOX.					516, 526
	Ⓜ			BUCKNER	3100-150 1 1/2" NORMALLY OPEN, BRASS MASTER CONTROL VALVE. WIRE MCV TO THE CONTROLLER USING A SEPARATE PILOT AND GROUND WIRE, ROUTE INSIDE A 1" SCH. 40 PVC (GRAY) ELECTRICAL CONDUIT. INSTALL INSIDE A STANDARD RECTANGULAR VALVE BOX.					516, 526
	▶◀			NIBCO	P-619-RW 2" GATE VALVE WITH SOLVENT WELD SOCKET CONNECTIONS, LINE SIZE PER MAINLINE. INSTALL INSIDE A 12" JUMBO VALVE BOX.					518
	◉			SIGNATURE	7643 1" QUICK COUPLER VALVE WITH LOCKING VINYL COVER. INSTALL INSIDE A 10" ROUND VALVE BOX.					536
	●			RAIN BIRD	XXX-EFB-CP-PRS-D PRESSURE REGULATING, BRASS REMOTE CONTROL VALVE (RCV) WITH NIBCO T-FP600A BRASS BALL VALVE (SIZED PER VALVE SIZE), SIZE AS SHOWN (1" AND 1 1/2" SIZES), SET PRS-D PRESSURE REGULATOR TO PROVIDE THE OPERATING PRESSURE OF THE SPRINKLER / BUBBLER HEAD AT THE HIGHEST OR FARTHEST HEAD ON THE CONTROL VALVE ZONE (MEASURE PSI AT HEAD). INSTALL THE RCV INSIDE A STANDARD RECTANGULAR VALVE BOX.					520
	◔			RAIN BIRD	100-EFB-CP BRASS DRIP REMOTE CONTROL VALVE, SIZE AS SHOWN (1" SIZE) WITH NIBCO T-FP600A BRASS BALL VALVE (SIZED PER VALVE SIZE). INSTALL A RAIN BIRD LCRBY-100D DISC FILTER AND A SENNINGER 1" PMR-40-MF PRESSURE REGULATOR WITHIN A SEPARATE STANDARD RECTANGULAR VALVE BOX DOWNSTREAM OF EACH DRIP REMOTE CONTROL VALVE (DRCV).					520, C
	Ⓒ			SITE ONE WEATHERTRAK	SITE ONE CONTROLLER ASSEMBLY MODEL # SA6-WT3-48-RSE-GR-K, 48 STATION CONTROLLER COMPLETE WITH FLOW KEY OPTION, AN INTERNET COMMUNICATIONS CARD. INSTALL CONTROLLER INSIDE A STAINLESS STEEL ENCLOSURE ON A STRONG BOX QP-16 "QUICK PAD". CONTRACTOR TO SUBSCRIBE TO (CIMIS/A) WEATHERTRAK CENTRAL SERVICE FIVE (5) YEAR OF INTERNET BASED CENTRAL CONTROL AND DAILY WEATHER DATA DOWNLOAD SERVICES. THE CONTRACTOR TO REGISTER THE CONTROLLER SOFTWARE AND FULLY PROGRAM THE CONTROLLER FOR AUTOMATIC PROGRAM ADJUSTMENT. THE CONTRACTOR SHALL PROVIDE PROOF OF REGISTRATION AND PROGRAMMING TO THE OWNER.					D
	NO SYMBOL			PAIGE ELECTRIC	THE CONTROLLER SHALL BE GROUNDED USING A #182000 5/8" X 8 FOOT COPPER CLAD GROUND ROD, A #182005 CAST BRONZE ROD CLAMP AND THE REQUIRED LENGTH OF #6AWG BARE, SINGLE STRAND COPPER GROUND WIRE. INSTALL INSIDE A 10" ROUND VALVE BOX.					E
	Ⓡ			RAIN MASTER	RS-500 WIRED RAIN SENSOR AS PART OF CONTROLLER ASSEMBLY, MOUNT IN RGVRSS ENCLOSURE ON THE SIDE OF THE CONTROLLER ENCLOSURE, WIRE TO THE CONTROLLER.					R
	Ⓟ			N/A	120 VOLT ELECTRICAL POWER FOR CONTROLLER, PROVIDED BY ELECTRICIAN, VERIFY ACTUAL LOCATION IN FIELD					N/A
	———			AS APPROVED	PVC PIPE 3/4" - 1 1/2" SCH. 40, SOLVENT WELD WITH SCH. 40 PVC FITTINGS, AS LATERAL LINES INSTALLED 12" BELOW FINISHED GRADE					532
	— — —			AS APPROVED	PVC PIPE 2" CL. 315, SOLVENT WELD WITH SCH. 80 PVC FITTINGS, AS MAINLINES INSTALLED 18" BELOW FINISHED GRADE					532
	— — —			AS APPROVED	PVC PIPE SCH. 40 AS SLEEVING, 2.5 TIMES THE DIAMETER OF PIPE OR WIRE BUNDLE CARRIED (2" MINIMUM SIZE) INSTALL ALL PIPE AND WIRE UNDER PAVING, HARDSCAPE, ETC. (OR AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE) INSIDE SLEEVES. SLEEVES UNDER PEDESTRIAN PAVING SHALL BE INSTALLED 24" BELOW FINISHED GRADE. SLEEVES UNDER VEHICULAR PAVING SHALL BE INSTALLED 36" BELOW FINISHED GRADE.					533
	NO SYMBOL			LASCO	ALL FITTINGS USED WITH SOLVENT WELD MAINLINE PIPE SHALL BE SCH. 80 PVC FITTINGS, GRAY IN COLOR, AND SIZED TO MATCH THE MAINLINE PIPE. ALL FITTINGS USED WITH SOLVENT WELD LATERAL LINE PIPE SHALL BE SCH. 40 PVC, WHITE IN COLOR, AND SIZED TO MATCH THE LATERAL LINE PIPE. ALL THREADED PVC NIPPLES SHALL BE SCH. 80 PVC PIPE, DARK GRAY IN COLOR, WITH MOLDED THREADS.					N/A
	NO SYMBOL			WELD-ON	ALL SOLVENT WELD CONNECTIONS FOR BOTH MAINLINE AND LATERAL LINE SHALL BE MADE USING THE TWO-STEP PROCESS OF PRIMER AND SOLVENT CEMENT. PRIMER SHALL BE P-68 LOW VOC "PURPLE PRIMER". SOLVENT CEMENT SHALL BE 705 LOW VOC, GRAY COLORED "MEDIUM BODIED" CEMENT. USE DAUBERS SIZED AT LEAST ONE-HALF THE SIZE OF THE LARGEST PIPE BEING JOINED. ALL SOLVENT CEMENTED JOINTS SHALL BE MADE PER THE PIPE AND FITTING MANUFACTURER'S RECOMMENDATIONS.					N/A
	NO SYMBOL			AS APPROVED	11/4" SCH. 40 PVC, GRAY ELECTRICAL CONDUIT FOR FLOW SENSOR / MASTER VALVE WIRES OR CENTRAL CONTROL COMMUNICATION CABLE, PROVIDE PULL BOX AT A MAXIMUM OF 200 FEET ON CENTER FOR A 3 FOOT WIRE LOOP OR ANY SPLICES. INSTALL INSIDE A STANDARD RECTANGULAR VALVE BOX.					N/A
	NO SYMBOL			PAIGE ELECTRIC	P7079D POLYETHYLENE INSULATED, SOLID COPPER CONDUCTOR IRRIGATION CONTROL WIRE #14UF AWG DIRECT BURIAL (U.L. APPROVED). PILOT WIRES SHALL BE RED IN COLOR, COMMON GROUND WIRE SHALL BE WHITE IN COLOR, SPARE WIRES SHALL BE YELLOW IN COLOR. THE CONTRACTOR SHALL ROUTE TWO (2) SPARE CONTROL WIRES (YELLOW) FROM THE CONTROLLER ALONG THE MAINLINE IN ALL DIRECTIONS AWAY FROM THE CONTROLLER. LOOP SPARE WIRES UP AND INTO EACH VALVE BOX ALONG THE MAINLINE, PROVIDING A 3 FOOT MINIMUM LOOP. WHERE MULTIPLE CONTROLLERS ARE USED ON THE PROJECT, EACH CONTROLLER SHALL HAVE A DIFFERENT COLOR FOR PILOT WIRES.					532, 533, 540
	NO SYMBOL			SPEARS	DS-100 DIRECT BURIAL (U.L. APPROVED) WATER-PROOF WIRE CONNECTORS WITH DS-300 SEALER FOR USE ON ALL WIRE SPLICES AND CONNECTIONS					F
	NO SYMBOL			NDS (K.B.I.)	KSC-XXX-S SWING CHECK VALVE, LATERAL LINE SIZE, INSTALL ONE (1) ON THE DOWNSTREAM SIDE OF EACH RCV WHEN THE RCV IS LOWER THAN THE SPRINKLERS, BUBBLERS OR DRIP EMITTERS. INSTALL WITHIN SPRINKLER / BUBBLER / DRIP ZONES AS REQUIRED TO PREVENT LOW HEAD DRAINAGE.					N/A
	NO SYMBOL			NDS (K.B.I.)	KC-XXX-S SPRING CHECK VALVE, LATERAL LINE SIZE, INSTALL ONE (1) ON THE DOWNSTREAM SIDE OF EACH RCV WHEN THE RCV IS HIGHER THAN THE SPRINKLERS, BUBBLERS OR DRIP EMITTERS. INSTALL WITHIN SPRINKLER / BUBBLER / DRIP ZONES AS REQUIRED TO PREVENT LOW HEAD DRAINAGE.					N/A
	NO SYMBOL			CARSON	VALVE BOXES, SIZE PER EQUIPMENT LEGEND, WITH T-COVER LIDS AND CAPTIVE BOLT AND LOC-KIT. FOR ROUND FLUSH VALES AND AIR RELIEF VALVES USE MODEL 708, 10" ROUND SHALL BE MODEL 910, 12" STANDARD RECTANGULAR. SHALL BE MODEL 1419, 12" JUMBO RECT. SHALL BE MODEL 1220, SUPER JUMBO SHALL BE MODEL 1324, AND SUPER JUMBO XL SHALL BE MODEL 1730. VALVE BOXES SHALL HAVE GREEN HDPE BODY AND GREEN LIDS. FOR USE IN NON-VEHICULAR TRAFFIC SITUATIONS ONLY. DO NOT INSTALL IN CONCRETE OR ASPHALT.					G

VALVE CALLOUT LEGEND



HYDROZONE DESCRIPTION CHART			
NUMBER	DESCRIPTION OF THE HYDROZONE	WUCOLS	PLANT FACTOR
HZ 1	LOW WATER USE PLANTINGS	L	0.20
HZ 2	MODERATE WATER USE PLANTINGS	M	0.40
HZ 3	LOW WATER USE BIOSWALE PLANTINGS	L	0.20
HZ 4	LOW WATER USE TREES	L	0.30
HZ 5	MODERATE WATER USE TREES	M	0.40

IRRIGATION METHOD DESCRIPTION CHART			
LETTERS	DESCRIPTION OF THE IRRIGATION	TYPE	IR. EFFICIENCY
S	SPRAY HEADS	SPRAY	0.75
DE	DRIP EMITTERS	DRIP	0.81
TB	TREE BUBBLERS	DRIP	0.81

I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

811

sweeney + associates
IRRIGATION DESIGN AND CONSULTING
38730 Sky Canyon Drive, Suite C
Murrieta, Ca 92563
e: info@sweeneyassoc.com t: (951) 461-6850
w: www.sweeneyassoc.com f: (951) 461-6850

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-889-1097 Office
949-889-1790 Fax
LPADesignStudios.com
5301 California Avenue
Suite 100
Irvine, California 92617

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

This document and all other project documents, ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are copyright protected, are the property of LPA, Inc. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as set forth in the contractual agreement between LPA and its Client. The unauthorized disclosure and/or use of the project documents (including the creation of derivative works), may give rise to liability for copyright infringement, unlawful disclosure, use or misappropriation of property rights held by LPA. The unauthorized use of the project documents will give rise to the recovery of monetary losses and damages including attorney fees and costs for which the unauthorized user will be held liable.
Project documents describe the design intent of the work and are not a representation of as-built or existing conditions. LPA is not responsible for any discrepancies between the project documents and the existing conditions.

© LPA, Inc.

MEMORIAL PARK
10597 TOWN CENTER DRIVE
RANCHO CUCAMONGA, CA 91730
Developed for
CITY OF RANCHO CUCAMONGA

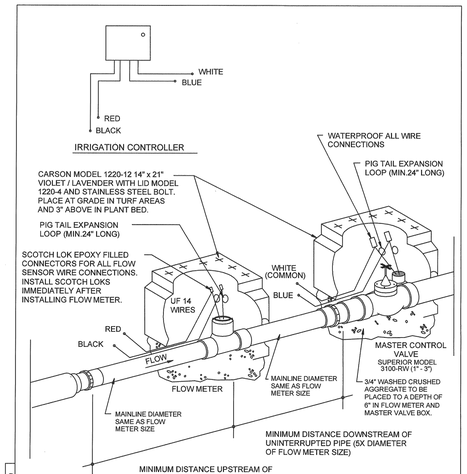
Revision	Date
1 VE CHANGES	07/31/2024

Submittal	Date
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/12/2023
50% CD	10/06/2023
100% CD	11/03/2023
PERMIT REVISION 01	07/31/2024

Job Number	30548.02
Date Published	07/31/2024
Checked By	JY
Scale	AS SHOWN

IRRIGATION LEGEND AND NOTES

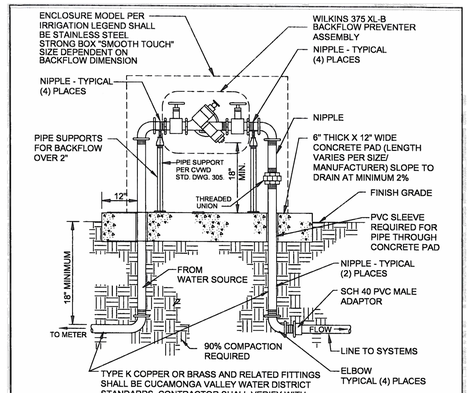
L6.02



NOTES:
1. MAXIMIZE DISTANCE BETWEEN FLOW METER AND MASTER VALVE.
2. IN MULTIPLE FLOW METER/M.V. INSTALLATIONS MAXIMIZE THE DISTANCE FROM THE "TEE" TO EACH FLOW METER TO MINIMIZE TURBULENCE.
3. MASTER VALVE AND FLOW METER MUST HAVE RECYCLED WATER TAGS (CHRISTY'S PURPLE MODEL NO. ID-MAX-P2-RC009)

CITY OF RANCHO CUCAMONGA, CALIFORNIA		
APPROVED BY: CITY ENGINEER R.C.E. 53672 DATE 5-13-09	FLOW METER INSTALLATION	STANDARD PLAN 516
USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION		SHEET 1 OF 1

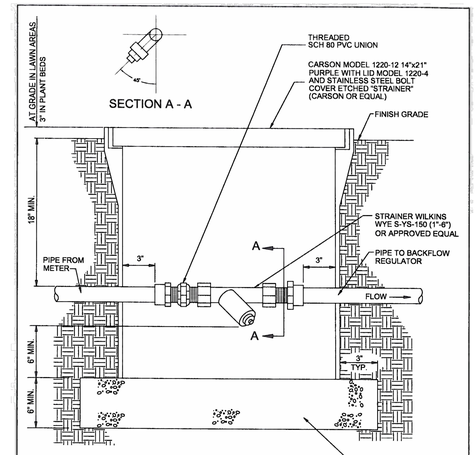
REVISED: 2-10-15 | 11-16-15 | 2-10-06 | 2-20-09



NOTES:
1. INSTALL PER LOCAL CODES.
2. EQUIPMENT TO BE INSTALLED AT A MINIMUM OF 24" FROM ANY STRUCTURES OR HARDSCAPING.
3. WHEN UNIT IS NEXT TO A STRUCTURE (IE. WALL, BUILDING, ETC.) MOUNT TEST COCKS ON OPEN OR NON-STRUCTURE SIDE.
4. ORIENT UNIT PARALLEL TO STREET.
5. SCREEN UNIT WITH SHRUBS WHENEVER POSSIBLE.
6. DIALETIC FITTINGS ARE REQUIRED FOR CONNECTIONS OF DISIMILAR METALS.
7. VALVE PER STD. 518 REQUIRED BEFORE BACKFLOW PREVENTER.
8. INSTALL PIPE SUPPORTS ON BACKFLOW LARGER THAN 2".

CITY OF RANCHO CUCAMONGA, CALIFORNIA		
APPROVED BY: CITY ENGINEER R.C.E. 53672 DATE 5-13-09	REDUCED PRESSURE BACKFLOW PREVENTER – TYPE A	STANDARD PLAN 517-A
USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION		SHEET 1 OF 1

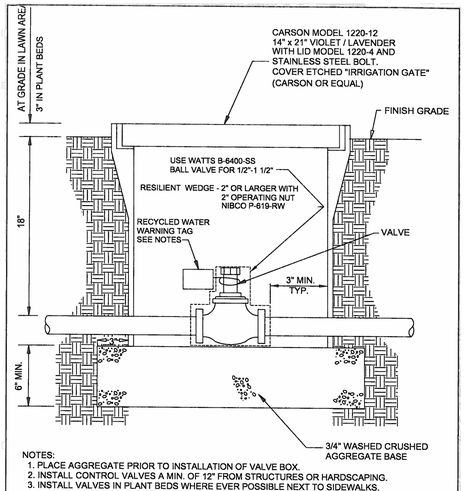
REVISED: 2-10-15 | 11-16-15



NOTES:
1. ENSURE A MINIMUM OF 6" CLEARANCE FROM BOTTOM OF STRAINER TO THE CRUSHED AGGREGATE.
2. STRAINER CAN BE PAINTED PURPLE WITH RUSTOLEUM # 1961 AS PER CUCAMONGA VALLEY WATER DISTRICT.

CITY OF RANCHO CUCAMONGA, CALIFORNIA		
APPROVED BY: DRN-ENGINEER R.C.E. 53672 DATE	STRAINER	STANDARD PLAN 517-C
USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION		SHEET 1 OF 1

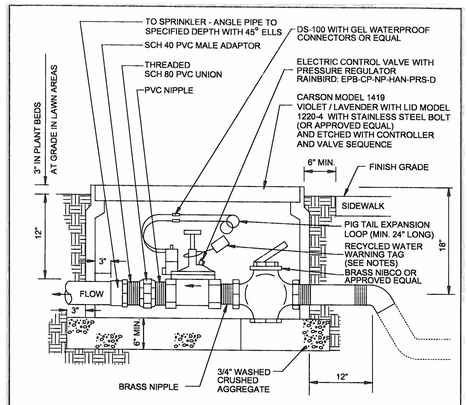
REVISED: 2-10-15 | 11-16-15



NOTES:
1. PLACE AGGREGATE PRIOR TO INSTALLATION OF VALVE BOX.
2. INSTALL CONTROL VALVES A MIN. OF 12" FROM STRUCTURES OR HARDSCAPING.
3. INSTALL VALVES IN PLANT BEDS WHERE EVER POSSIBLE NEXT TO SIDEWALKS.
4. PLACE VALVE BOX AT RIGHT ANGLES TO STRUCTURES OR HARDSCAPING.
5. ATTACH PLASTIC VALVE IDENTIFICATION TAG WITH APPROPRIATE CONTROLLER AND VALVE NUMBER INSIDE VALVE BOX.
6. ALL VALVES MUST HAVE RECYCLED WARNING TAG (PURPLE) (CHRISTY'S PURPLE MODEL NO. ID-MAX-P2-RC009). ONLY WHEN RECYCLED WATER IS AVAILABLE AND CONNECTED.

CITY OF RANCHO CUCAMONGA, CALIFORNIA		
APPROVED BY: CITY ENGINEER R.C.E. 53672 DATE	ISOLATION VALVE – 3" or smaller	STANDARD PLAN 518
USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION		SHEET 1 OF 1

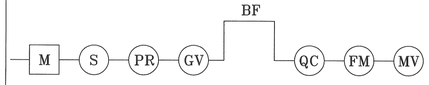
REVISED: 2-10-15 | 11-16-15



NOTES:
1. INSTALL CONTROL VALVES A MINIMUM OF 12" FROM STRUCTURES OR HARDSCAPING.
2. INSTALL VALVES IN PLANT BEDS WHEREVER POSSIBLE NEXT TO SIDEWALKS.
3. PLACE VALVE BOX AT RIGHT ANGLES TO STRUCTURES OR HARDSCAPING.
4. PLACE AGGREGATE PRIOR TO INSTALLATION OF VALVE BOX.
5. ATTACH PLASTIC IDENTIFICATION TAG WITH APPROPRIATE CONTROLLER AND VALVE NUMBER TO WIRE INSIDE VALVE BOX.
6. ALL VALVES MUST HAVE RECYCLED WATER VALVE TAGS (CHRISTY'S PURPLE MODEL NO. ID-MAX-P2-RC009) ATTACHED TO VALVES. ONLY WHEN RECYCLED WATER IS AVAILABLE AND CONNECTED.

CITY OF RANCHO CUCAMONGA, CALIFORNIA		
APPROVED BY: CITY ENGINEER R.C.E. 53672 DATE 5-13-09	REMOTE CONTROL VALVE WITH SHUT-OFF VALVE & UNION	STANDARD PLAN 520
USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION		SHEET 1 OF 1

REVISED: 2-10-15 | 11-16-15

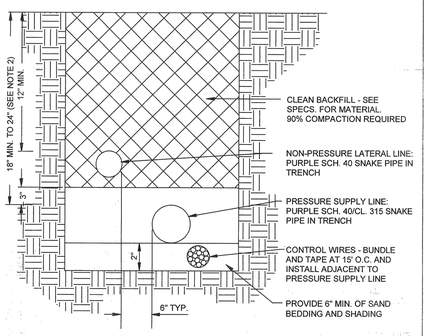


M: WATER METER, CVWD STANDARD
S: STRAINER, STD. DWG. NO. 517-C.
PR: PRESSURE REGULATOR, STD. DWG. NO. 519.
GV: GATE VALVE, STD. DWG. NO. 518.
BF: BACKFLOW, STD. DWG. NOS. 517-A & 517-B
QC: QUICK COUPLER, STD. DWG. NO. 536.
FM: FLOW METER, STD. DWG. NO. 516.
MV: MASTER VALVE, STD. DWG. NO. 516.

NOTES:
1. QUICK COUPLER TO BE INSTALLED 2 FEET DOWNSTREAM OF LAST ELBOW ON BACKFLOW.
2. THE HORIZONTAL DISTANCE BETWEEN DOMESTIC WATER LINES AND RECYCLED WATER LINES MUST BE 10 FEET AND THE VERTICAL DISTANCE MUST BE 1 FEET.
3. IF A RECYCLED WATER LINE MUST CROSS OVER A DOMESTIC LINE, THE RECYCLED WATER LINE MUST BE SLEEVED TO EXTEND 5 FEET ON BOTH SIDES OF THE PIPE.
4. IF THE MAINLINE RUNNING FROM THE WATER METER TO THE STRAINER NEEDS TO PASS UNDER A SIDEWALK, TYPE K COPPER MUST BE USED AND EXTEND AT LEAST 1 FOOT PAST THE SIDEWALK BEFORE CHANGING TO PVC. TYPE K COPPER MUST BE COVERED WITH CHRISTY'S PURPLE POLYETHYLENE WRAP.
5. IF THE MAINLINE TURNS 90 DEGREES FROM THE WATER METER, CUCAMONGA VALLEY WATER DISTRICT RECOMMENDS THE USE OF BRASS NIPPLES AND 90 DEGREE ELBOWS TO AVOID HIGH WATER PRESSURE DAMAGE TO PVC FITTINGS.

CITY OF RANCHO CUCAMONGA, CALIFORNIA		
APPROVED BY: CITY ENGINEER R.C.E. 53672 DATE 5-13-09	POINT OF CONNECTION (P.O.C.) FOR NEW LANDSCAPE SITES	STANDARD PLAN 526
USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION		SHEET 1 OF 1

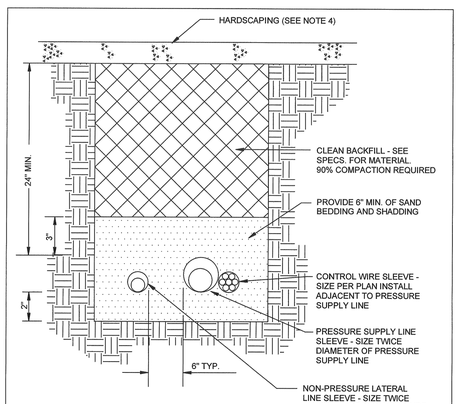
REVISED: 6-30-95



NOTE:
1. PIGTAIL AND LOOP CONTROL WIRE AT 90° CHANGES IN DIRECTION.
2. PRESSURE SUPPLY LINE: 2 1/2" AND SMALLER 18" MIN. DEPTH
3" AND LARGER 24" MIN. DEPTH

CITY OF RANCHO CUCAMONGA, CALIFORNIA		
APPROVED BY: CITY ENGINEER R.C.E. 53672 DATE 5-13-09	TYPICAL TRENCHING	STANDARD PLAN 532
USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION		SHEET 1 OF 1

REVISED: 6-30-95 | 2-10-06 | 2-20-09



NOTES:
1. ALL SLEEVES TO BE SCH 40 PVC.
2. EXTEND ALL SLEEVES 12" BEYOND EDGE OF HARDSCAPING AT BOTH ENDS.
3. ROUTE SLEEVING AROUND HANDICAP RAMPS.
4. PIPING UNDER PAVEMENT SUSCEPTIBLE TO TRAFFIC LOADS REFER TO CITY STD. PLAN 120 (24" MIN. TO 36" MAX DEPTH TO TOP OF PIPE BELOW STRUCTURAL SECTION).
5. MINIMIZE NUMBER OF GLUE JOINTS UNDER STREET.
6. USE MAXIMUM LENGTH OF PIPE POSSIBLE TO MINIMIZE JOINTS UNDER HARDSCAPE.
7. COPPER LINES MUST BE SLEEVED WITH CHRISTY'S POLYETHYLENE PURPLE PIPE ENCASEMENT AND OR WRAP FOR RECYCLED WATER PART # EX-TA-ET-2-PRW.

CITY OF RANCHO CUCAMONGA, CALIFORNIA		
APPROVED BY: CITY ENGINEER R.C.E. 53672 DATE 5-13-09	TYPICAL SLEEVING	STANDARD PLAN 533
USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION		SHEET 1 OF 1

REVISED: 6-30-95 | 2-10-06 | 2-20-09

I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

811

sweeney + associates
IRRIGATION DESIGN AND CONSULTING
38730 Sky Canyon Drive, Suite C
Murrieta, Ca 92563
e: info@sweeneyassoc.com t: (951) 461-6830
w: www.sweeneyassoc.com f: (951) 461-6850

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue, Suite 100
Irvine, California 92617

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

This document and all other project documents, ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are copyright protected, are the property of LPA, Inc. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as set forth in the contractual agreement between LPA and its Client. The unauthorized disclosure and/or use of the project documents (including the creation of derivative works), may give rise to liability for copyright infringement, unlawful disclosure, use or misappropriation of property rights held by LPA. The unauthorized use of the project documents will give rise to the recovery of monetary losses and damages including attorney fees and costs for which the unauthorized user will be held liable. Project documents describe the design intent of the work and are not a representation of as-built or existing conditions. LPA is not responsible for any discrepancies between the project documents and the existing conditions.
© LPA, Inc.

MEMORIAL PARK
10597 TOWN CENTER DRIVE
RANCHO CUCAMONGA, CA 91730
Developed for
CITY OF RANCHO CUCAMONGA

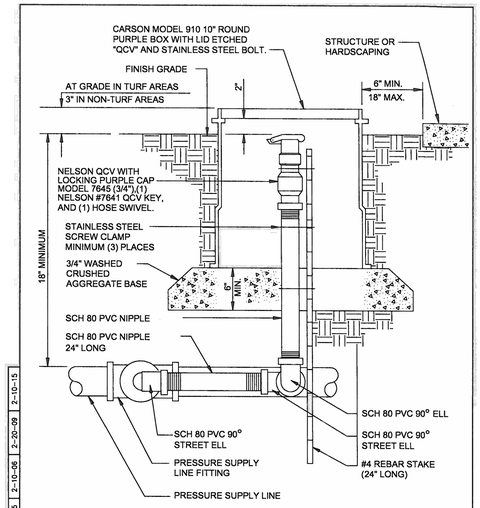
Revision	Date

Submittal	Date
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/12/2023
50% CD	10/06/2023
100% CD	11/03/2023

Job Number	30548.02
Date Published	11/03/2023
Checked By	Y
Scale	

IRRIGATION DETAILS

L6.03

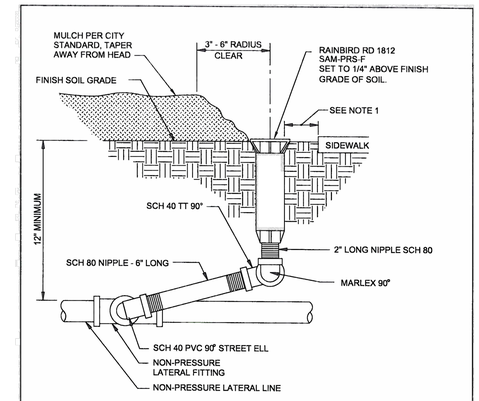


NOTE:
PLACE AGGREGATE PRIOR TO INSTALLATION OF VALVE BOX.

CITY OF RANCHO CUCAMONGA, CALIFORNIA

APPROVED BY:		STANDARD PLAN
CITY ENGINEER R.C.E. 53672 DATE 4/9/16	QUICK COUPLING VALVE	536
USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION		SHEET 1 OF 1

REVISED: 7-20-92, 6-20-95, 2-20-09, 2-10-15

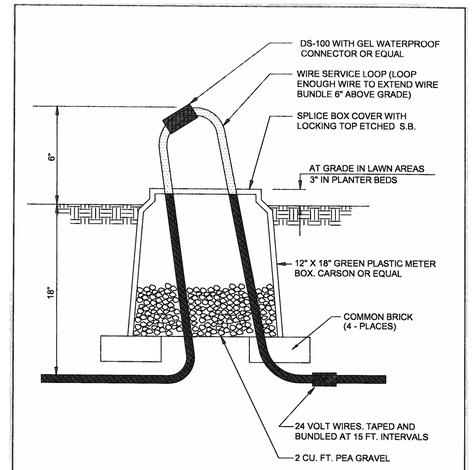


NOTE:
1. LOCATE HEAD 18" TO 24" FROM HARDSCAPING AND WALKS.
2. USE TEFLON TAPE ON ALL MALE PVC THREADS.
3. INSTALL HEADS WITH INTERNAL CHECK VALVE AND PRESSURE COMPENSATING FEATURES PER THE IRRIGATION PLAN.
4. HEAD CONNECTION AT BOTTOM INLET ONLY.
5. DO NOT USE 5' OR 8' NOZZLES. USE COMPENSATING SCREENS TO REDUCE ARC.

CITY OF RANCHO CUCAMONGA, CALIFORNIA

APPROVED BY:		STANDARD PLAN
CITY ENGINEER R.C.E. 53672 DATE	POP-UP SHRUB SPRAY HEAD	539
USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION		SHEET 1 OF 1

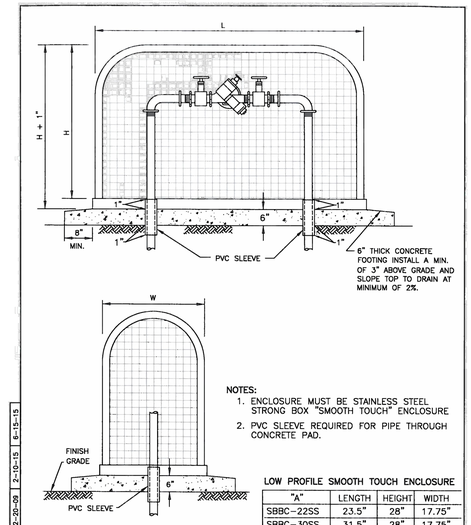
REVISED: 11-16-15, 2-10-15



CITY OF RANCHO CUCAMONGA, CALIFORNIA

APPROVED BY:		STANDARD PLAN
CITY ENGINEER R.C.E. 53672 DATE	24 VOLT SPLICE BOX	540
USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION		SHEET 1 OF 1

REVISED: 11-16-15, 2-10-15



NOTES:
1. ENCLOSURE MUST BE STAINLESS STEEL STRONG BOX "SMOOTH TOUCH" ENCLOSURE
2. PVC SLEEVE REQUIRED FOR PIPE THROUGH CONCRETE PAD.

LOW PROFILE SMOOTH TOUCH ENCLOSURE

"A"	LENGTH	HEIGHT	WIDTH
SBBC-22SS	23.5"	28"	17.75"
SBBC-30SS	31.5"	28"	17.75"
SBBC-45SS	46.5"	28"	17.75"

CITY OF RANCHO CUCAMONGA, CALIFORNIA

APPROVED BY:		STANDARD PLAN
CITY ENGINEER R.C.E. 53672 DATE	BACKFLOW ENCLOSURE	543
USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION		SHEET 1 OF 1

REVISED: 6-20-95, 2-20-09, 2-10-15, 6-15-15

NOTE:
POSITION MSBN-50Q STREAM BUBBLER HEADS 6" FROM THE ROOT BALL.
POSITION MSBN-25Q STREAM BUBBLER HEADS 1" FROM THE ROOT BALL.

PLAN VIEW - N.T.S.

©copyright 2014 Sweeney & Associates, Inc.

A TREE BUBBLER LAYOUT

NOTE:
INSTALL BUBBLER HEADS 6" FROM PAVING EDGE IN SHRUB AND GROUND COVER AREAS.
INSTALL BUBBLER HEADS PLUMB.

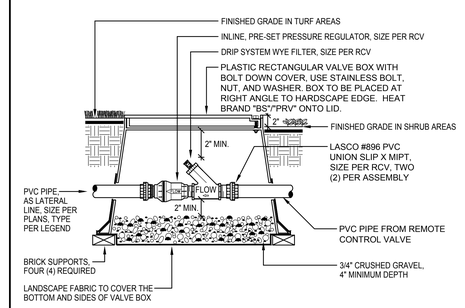
SECTION VIEW - N.T.S.

©copyright 2015 Sweeney & Associates, Inc.

B SHRUB BUBBLER ON RISER ASSEMBLY AND LAYOUT

PLAN VIEW - N.T.S.

©copyright 2014 Sweeney & Associates, Inc.

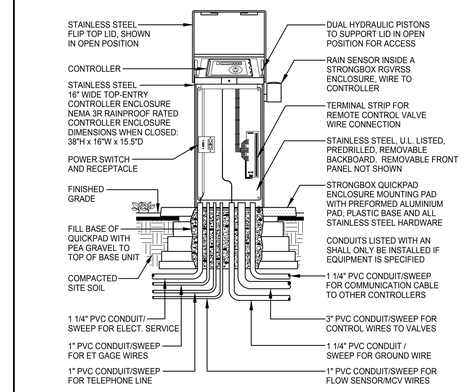


NOTE:
USE STANDARD BOX OPENINGS FOR ALL PIPING INTO THE BOX, DO NOT CUT THE BOX.

SECTION VIEW - N.T.S.

©copyright 2014 Sweeney & Associates, Inc.

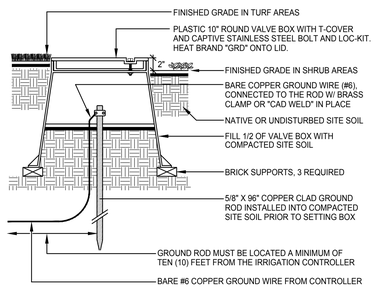
C WYE FILTER / PRESSURE REGULATOR



SECTION VIEW - N.T.S.

©copyright 2014 Sweeney & Associates, Inc.

D CONTROLLER ASSEMBLY



NOTE:
CONTRACTOR IS REQUIRED TO CONTACT 811 OR DIGALERT A MINIMUM OF TWO (2) DAYS PRIOR TO ANY EXCAVATION ON THE PROJECT AND SPECIFICALLY PRIOR TO THE INSTALLATION OF ANY GROUNDING RODS. DIAL 811 OR LOG ONTO WWW.DIGALERT.ORG.

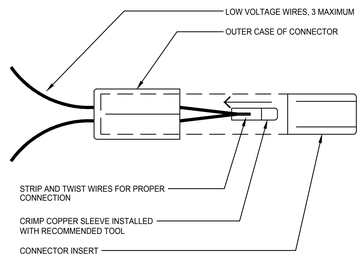
EACH CONTROLLER SHALL HAVE A MINIMUM OF ONE (1) GROUND ROD INSTALLED.

GROUND ROD SHALL BE INSTALLED A MINIMUM OF TEN (10) FEET AWAY FROM THE IRRIGATION CONTROLLER OR ANY CONTROL WIRE PATH.

SECTION VIEW - N.T.S.

©copyright 2017 Sweeney & Associates, Inc.

E GROUNDING ROD



NOTE:
DIRECT BURY SPLICE KIT SHALL BE USED TO ELECTRICALLY CONNECT 2 - 3 #14 OR 2 #12 PRE-STRIPPED COPPER WIRES. LARGER WIRES OR GREATER QUANTITIES OF WIRES SHALL REQUIRE A LARGER APPROVED WIRE CONNECTION.

SECTION VIEW - N.T.S.

©copyright 2017 Sweeney & Associates, Inc.

F WIRE CONNECTION

NOTE:
1. CENTER VALVE BOX OVER REMOTE CONTROL VALVE OR DRIP ASSEMBLY TO FACILITATE SERVICING OF THE VALVE OR EQUIPMENT.
2. SET RCV AND VALVE BOX ASSEMBLY IN GROUND COVER OR SHRUB AREAS WHERE EVER POSSIBLE, VALVES IN TURF AREAS TO BE APPROVED BY LANDSCAPE ARCHITECT.
3. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO ADJACENT PAVING EDGE.
4. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT THE COLLAPSE AND / OR DEFORMATION OF VALVE BOXES.
5. BOX LOCATIONS SHALL BE STAKED IN THE FIELD PRIOR TO MAINLINE INSTALLATION FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT.

NOTE:
VALVE BOXES SHALL BE INSTALLED IN SHRUB AND GROUND COVER AREAS. NO VALVES SHALL BE INSTALLED IN TURF AREAS WITHOUT PRIOR APPROVAL BY THE LANDSCAPE ARCHITECT.

PLAN VIEW - N.T.S.

©copyright 2014 Sweeney & Associates, Inc.

G VALVE BOX LAYOUT

I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

811

sweeney + associates
IRRIGATION DESIGN AND CONSULTING
38730 Sky Canyon Drive, Suite C
Murrieta, Ca 92563
e: info@sweeneyassoc.com t: (951) 461-6830
w: www.sweeneyassoc.com f: (951) 461-6850

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue, Suite 100
Irvine, California 92617

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

This document and all other project documents, ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are copyright protected, are the property of LPA, Inc. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as set forth in the contractual agreement between LPA and its Client. The unauthorized disclosure and/or use of the project documents (including the creation of derivative works), may give rise to liability for copyright infringement, unlawful disclosure, use or misappropriation of property rights held by LPA. The unauthorized use of the project documents will give rise to the recovery of monetary losses and damages including attorney fees and costs for which the unauthorized user will be held liable.
Project documents describe the design intent of the work and are not a representation of as-built or existing conditions. LPA is not responsible for any discrepancies between the project documents and the existing conditions.
©LPA, Inc.

MEMORIAL PARK
10597 TOWN CENTER DRIVE
RANCHO CUCAMONGA, CA 91730
Developed for
CITY OF RANCHO CUCAMONGA

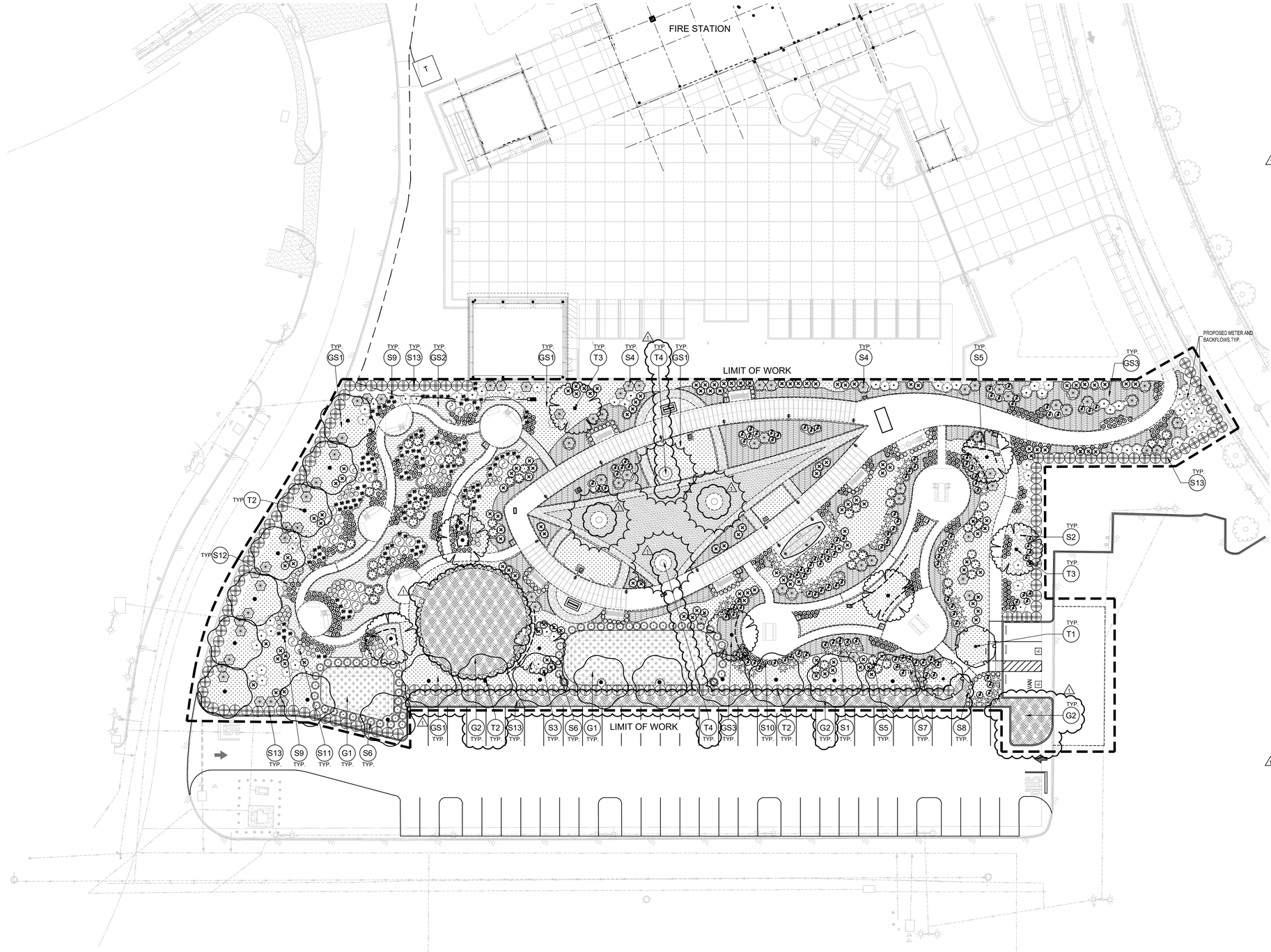
Revision	Date

Submittal	Date
100% SCHEMATIC DESIGN	03/17/2023
100% DESIGN DEVELOPMENT	07/12/2023
50% CD	10/06/2023
100% CD	11/03/2023

Job Number	30548.02
Date Published	11/03/2023
Checked By	Y
Scale	

IRRIGATION DETAILS

L6.04



PLANTING LEGEND

TREE LIST

REF.	WUCOLS	SYM.	BOTANICAL NAME/ COMMON NAME	SIZE/ SPACING	COMMENTS/ DETAIL
T1	M		LAGERSTROEMIA INDICA X FAUIEI 'NATCHEZ'/ NATCHEZ CRAPE MYRTLE'	15 GAL/ PER PLAN	STANDARD/ 01/L7.02
T2	L		CHILOPSIS LINEARIS/ DESERT WILLOW	15 GAL/ PER PLAN	MULTI/ 01/L7.02
T3	L		PROSOPIS CHILENSIS/ THORNLESS CHILEAN MESQUITE	15 GAL/ PER PLAN	STANDARD/ 01/L7.02
⚠1 T4	L		QUERCUS VIRGINIANA/ SOUTHERN LIVE OAK	24" BOX/ PER PLAN	STANDARD/ 01/L7.02

SHRUB/ ORNAMENTAL GRASSES LIST

REF.	SYM.	WUCOLS	BOTANICAL NAME/ COMMON NAME	SIZE/ SPACING	COMMENTS/ DETAIL
S1		L	EPILOBIUM CANUM/ CALIFORNIA FUCHSIA	⚠1 1 GAL/ AS SHOWN	03/ L7.02
S2		L	SALVIA 'POZO BLUE'/ POZO BLUE SAGE	1 GAL/ AS SHOWN	03/ L7.02
S3		L	ACHILLEA MILLEFOLIUM 'ISLAND PINK'/ ISLAND PINK YARROW	1 GAL/ AS SHOWN	03/ L7.02
S4		L	HESPERALOE PARVIFLORA/ RED YUCCA	1 GAL/ AS SHOWN	03/ L7.02
S5		M	DIETES IRIDIOIDES/ FORTNIGHT LILY	1 GAL/ AS SHOWN	03/ L7.02
S6		M	MUHLENBERGIA RIGENS/ DEER GRASS	1 GAL/ AS SHOWN	03/ L7.02
S7		L	MUHLENBERGIA CAPILLARIS 'REGAL'/ MUHLY GRASS	1 GAL/ AS SHOWN	03/ L7.02
S8		L	JUNCUS PATENS/ CALIFORNIA GRAY RUSH	1 GAL/ AS SHOWN	03/ L7.02
S9		L	ORIGANUM VULGARE/ OREGANO	1 GAL/ AS SHOWN	03/ L7.02
S10		L	THYMUS VULGARIS/ COMMON THYME	1 GAL/ AS SHOWN	03/ L7.02
S11		L	SALVIA ROSMARINUS ROSEMARY	1 GAL/ AS SHOWN	03/ L7.02
S12		L	LAVANDULA MULTIFIDA/ FRENCH LACE	1 GAL/ AS SHOWN	03/ L7.02
S13		M	LIGUSTRUM JAPONICUM 'TEXANUM'/ WAXLEAF PRIVET	15 GAL/ AS SHOWN	03/ L7.02

(PERFORATED METAL FENCE - BID ALTERNATE)

GROUNDCOVER LIST

GS1		L	CEANOTHUS 'CENTENNIAL'/ CENTENNIAL CEANOTHUS	5 GAL/ 60" OC	04/ L7.02
GS2		L	MYOPORUM PARVIFOLIUM 'PROSTARTUM'/ CREEPING MYOPORUM	5 GAL/ 72" OC	04/ L7.02
GS3		L	YANKEE POINT CEANOTHUS/ YANKEE POINT WILD LILAC	5 GAL/ 72" OC	04/ L7.02

BIOSWALE LIST

G1		L	NATIVE BIOSWALE SEED MIX	NATIVE GRASS SEED	

MISCELLANEOUS SYMBOLS

⚠1 G2	MULCH	
	24" DEEP LINEAR ROOT BARRIER	09/ L7.02

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue, Suite 100
Irvine, California 92617

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

This document and all other project documents, ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are copyright protected, are the property of LPA, Inc. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as set forth in the contractual agreement between LPA and its Client. The unauthorized disclosure and/or use of the project documents (including the creation of derivative works), may give rise to liability for copyright infringement, unlawful disclosure, use or misappropriation of property rights held by LPA. The unauthorized use of the project documents will give rise to the recovery of monetary losses and damages including attorney fees and costs for which the unauthorized user will be held liable.
Project documents describe the design intent of the work and are not a representation of as-built or existing conditions. LPA is not responsible for any discrepancies between the project documents and the existing conditions.
LPA

Revision	Date
⚠1 VE CHANGES	07/31/2024

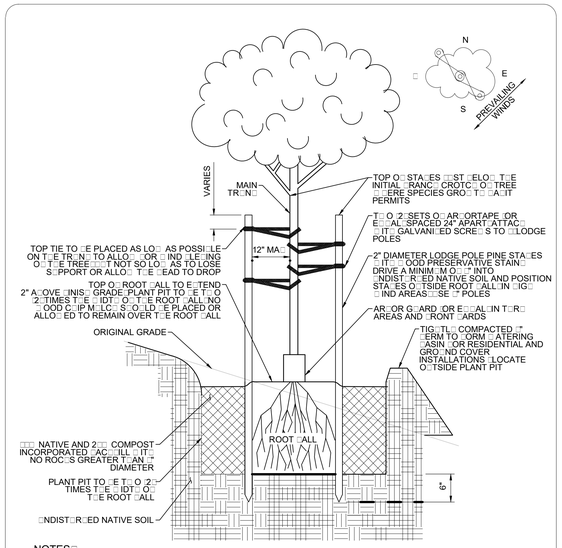
Submittal	Date
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/12/2023
50% CD	10/06/2023
100% CD	11/03/2023
PERMIT REVISION 01	07/31/2024

MEMORIAL PARK
10597 TOWN CENTER DRIVE
RANCHO CUCAMONGA, CA 91730
Developed for
CITY OF RANCHO CUCAMONGA

Job Number	30548.02
Date Published	07/31/2024
Checked By	JY
Scale	AS SHOWN

PLANTING PLAN

L7.01



NOTES:

1. REMOVE NURSERY STAKES AND TWINE FROM ROOT BALL.
2. STAKES TO BE PLUMB AND PARALLEL
3. STAKE TREE PERPENDICULAR TO PREVAILING WIND
4. INSTALL AGRIFORM 20-10 PLANTING TABLETS PER LABEL DIRECTIONS FOR EQUAL SPACING OF 24" APART ATTACHED TO GALVANIZED SCREEN STOP LODGE POLES
5. COMPOST IS AVAILABLE AT INLAND EMPIRE REGIONAL COMPOSTING AUTHORITY (FACILITY) AT 12645 6TH STREET, RANCHO CUCAMONGA, CA 91739.

CITY OF RANCHO CUCAMONGA

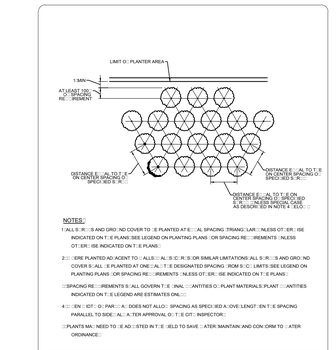
CONTAINER PLANTING ON SLOPE

USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

APPROVED BY: 03/05/2020 DATE — JASON C. WELDAY, CITY ENGINEER — R.C.E. 67514

STD. PLAN NO. 507 | SHEET 1 OF 1 | DATE OF LAST REVISION 01/02/2020

CONTAINER PLANTING ON SLOPE | N.T.S | 0□



NOTES:

1. ALL SHRUBS AND GROUND COVER TO BE PLANTED AT EQUAL SPACING TRIANGULAR UNLESS OTHERWISE INDICATED ON THE PLANS. SEE LEGEND ON PLANTING PLANS FOR SPACING REQUIREMENTS UNLESS OTHERWISE INDICATED ON THE PLANS.
2. REFER PLANTED ADJACENT TO CURBS, SIDEWALKS AND SIMILAR LIMITATIONS. ALL SHRUBS AND GROUND COVER SHALL BE PLANTED AT ONE HALF THE DESIGNATED SPACING FROM SUCH LIMITS SEE LEGEND ON PLANTING PLANS FOR SPACING REQUIREMENTS UNLESS OTHERWISE INDICATED ON THE PLANS.
3. SPACING REQUIREMENTS SHALL GOVERN THE INSTALLATION OF PLANT MATERIALS PLANTINGS UNLESS INDICATED ON THE LEGEND ARE ESTIMATES ONLY.
4. WHEN DIRECTED BY PARK PLANNER, DOES NOT ALLOW SPACING AS SPECIFIED ABOVE LENGTHEN THE SPACING PARALLEL TO SIDEWALK AFTER APPROVAL OF THE CITY INSPECTOR.
5. PLANTS MAY NEED TO BE ADJUSTED IN THE FIELD TO SAVE WATER MAINTAIN AND CONFORM TO LATER ORDINANCE.

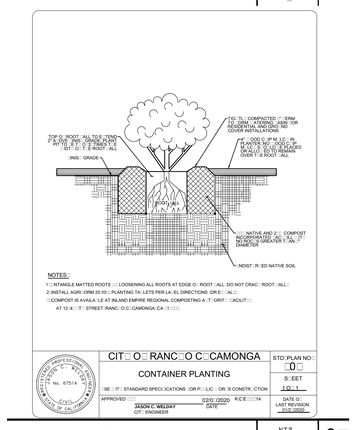
CITY OF RANCHO CUCAMONGA

SHRUB AND GROUND COVER SPACING

STD. PLAN NO. □0□ | SHEET 1 OF 1 | DATE OF LAST REVISION 01/2/2020

APPROVED 02/0/2020 DATE — JASON C. WELDAY, CITY ENGINEER — R.C.E. 67514

SHRUB AND GROUND COVER SPACING | N.T.S | 04



NOTES:

1. INTANGLE MATTED ROOTS BY LOOSENING ALL ROOTS AT EDGE OF ROOT BALL, DO NOT CRACK ROOT BALL.
2. INSTALL AGRIFORM 20-10 PLANTING TABLETS PER LABEL DIRECTIONS (OR EQUAL).
3. COMPOST IS AVAILABLE AT INLAND EMPIRE REGIONAL COMPOSTING AUTHORITY (FACILITY) AT 12645 6TH STREET, RANCHO CUCAMONGA, CA 91739.

CITY OF RANCHO CUCAMONGA

CONTAINER PLANTING

USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

APPROVED 02/0/2020 DATE — JASON C. WELDAY, CITY ENGINEER — R.C.E. 67514

STD. PLAN NO. □0□ | SHEET 1 OF 1 | DATE OF LAST REVISION 01/2/2020

CONTAINER PLANTING | N.T.S | 0□

NOTES:

1. REMOVE NURSERY STAKES AND TWINE FROM ROOT BALL.
2. STAKES TO BE PLUMB AND PARALLEL
3. STAKE TREE PERPENDICULAR TO PREVAILING WIND
4. INSTALL AGRIFORM 20-10 PLANTING TABLETS PER LABEL DIRECTIONS FOR EQUAL SPACING OF 24" APART ATTACHED TO GALVANIZED SCREEN STOP LODGE POLES
5. COMPOST IS AVAILABLE AT INLAND EMPIRE REGIONAL COMPOSTING AUTHORITY (FACILITY) AT 12645 6TH STREET, RANCHO CUCAMONGA, CA 91739.

CITY OF RANCHO CUCAMONGA

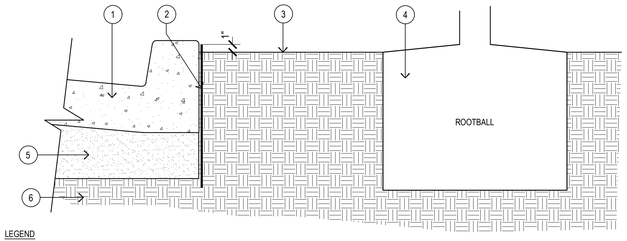
DOUBLE STAKED TREE ON SLOPE

USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

APPROVED 02/0/2020 DATE — JASON C. WELDAY, CITY ENGINEER — R.C.E. 67514

STD. PLAN NO. □0□ | SHEET 1 OF 1 | DATE OF LAST REVISION 01/2/2020

DOUBLE STAKED TREE ON SLOPE | 1/4"=1'-0" | 10



LEGEND

1. CONCRETE CURB, GUTTER, OR SIDEWALK.
2. LINEAR ROOT BARRIER BY 'DEEP ROOT'. SEE PLANTING PLAN. MODEL # UB24-2
3. FINISH GRADE.
4. ADJACENT ROOTBALL. VERIFY THE EXACT LOCATION AND PROTECT AT ALL TIMES.
5. BASE MATERIAL FROM ADJACENT HARDSCAPE.
6. COMPACTED SUBGRADE FROM ADJACENT HARDSCAPE.

NOTE:

A. VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION.

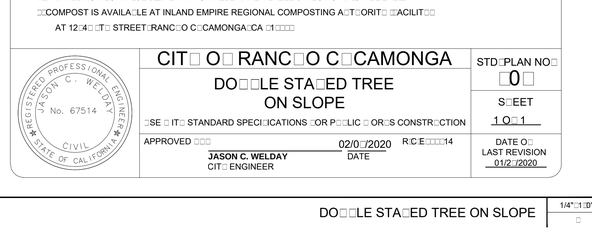
CITY OF RANCHO CUCAMONGA

LINEAR ROOT BARRIER

APPROVED BY: 03/05/2020 DATE — JASON C. WELDAY, CITY ENGINEER — R.C.E. 67514

STD. PLAN NO. 508 | SHEET 1 OF 1 | DATE OF LAST REVISION 01/02/2020

LINEAR ROOT BARRIER | 1 1/2"=1'-0" | 0□



NOTES:

1. REMOVE NURSERY STAKES AND TWINE FROM ROOT BALL.
2. STAKES TO BE PLUMB AND PARALLEL
3. STAKE TREE PERPENDICULAR TO PREVAILING WIND
4. INSTALL AGRIFORM 20-10 PLANTING TABLETS PER LABEL DIRECTIONS FOR EQUAL SPACING OF 24" APART ATTACHED TO GALVANIZED SCREEN STOP LODGE POLES
5. COMPOST IS AVAILABLE AT INLAND EMPIRE REGIONAL COMPOSTING AUTHORITY (FACILITY) AT 12645 6TH STREET, RANCHO CUCAMONGA, CA 91739.

CITY OF RANCHO CUCAMONGA

DOUBLE STAKED TREE

USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

APPROVED 02/0/2020 DATE — JASON C. WELDAY, CITY ENGINEER — R.C.E. 67514

STD. PLAN NO. □02 | SHEET 1 OF 1 | DATE OF LAST REVISION 01/21/2020

DOUBLE STAKED TREE | 1/4"=1'-0" | 01

AMG LPA

DESIGN-BUILD TEAM

LPA, INC.

ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING

949-261-1001 Office

949-260-1190 Fax

LPADesignStudios.com

5301 California Avenue,
Suite 100
Irvine, California 92617

AMG & ASSOCIATES

661-251-7401 Office

AMGAssociates.com

26535 Summit Circle
Santa Clarita, CA 91350

© LPA, Inc.

MEMORIAL PARK

10□□ TOWN CENTER DRIVE
RANCHO CUCAMONGA, CA 91□□0

DESIGNED □Y
CITY OF RANCHO CUCAMONGA

DRAWN □Y

CHECKED □Y

DATE	
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/12/2023
50% CD	10/06/2023
100% CD	11/03/2023

JOB NO.	0:4 02
DATE PLOTTED	11/03/2023
CHECKED BY	JY
SCALE	N/A

PLANTING DETAILS

L7.02

A. GENERAL

1. Applicable Code: 2022 California Building Code (CBC). References to industry standards herein shall be latest edition as adopted by Applicable Code. References to Evaluation Reports for proprietary materials herein shall be latest edition as adopted by Governing Code Authority.

   Design Live Loads
   a. Canopies
      i. Roof areas not intended for occupancy (20psf reducible roof uniform load or 200 lb point load).

   Wind Design
   a. Speed: V_{ULTD} = 96 MPH V_{ASD} = 75 MPH
   b. Exposure: C
   c. Enclosure Clarification: Open (GCPi = 0.00)

   Typical Seismic Design

a.	Site Class:	D
b.	Mapped Spectral Acceleration (Ss,S1):	1.5g, 0.6g
c.	Site Specific Spectral Response Coefficient (Sds,Sd1):	1.0g, 0.68g
d.	Site Coefficient (Fa,Fv):	1.0, 1.7
e.	Seismic Importance Factor Ie:	1.0
f.	Risk Category:	II
g.	Seismic Design Category:	D

   Open Air Canopies

a.	Basic Seismic Resisting Force System:	Ordinary Cantilever Column
b.	Seismic Response Coefficient, Cs:	0.80 g
c.	Analysis Procedure:	Equivalent Lateral Force Procedure
d.	Seismic Base Shear:	Varies
e.	Response Modification Factor, R:	1.25
f.	Overstrength Factor, Ωo:	1.25
g.	Deflection Amplification Factor, Cd:	1.25
h.	Maximum Inelastic Story Drift Ratio:	2.5%
i.	Irregularities:	Horizontal: None Vertical: None
j.	Redundancy Factor, P:	1.3 (Both Directions)
k.	Building Mass:	Varies

   Monument

a.	Basic Seismic Resisting Force System:	Ordinary Cantilever Column
b.	Seismic Response Coefficient, Cs:	0.80 g
c.	Analysis Procedure:	Equivalent Lateral Force Procedure
d.	Seismic Base Shear:	48K
e.	Response Modification Factor, R:	1.25
f.	Overstrength Factor, Ωo:	1.25
g.	Deflection Amplification Factor, Cd:	1.25
h.	Maximum Inelastic Story Drift Ratio:	2.5%
i.	Irregularities:	Horizontal: None Vertical: None
j.	Redundancy Factor, P:	1.3 (Both Directions)
k.	Building Mass:	60K

2. Governing Code Authority: City of Rancho Cucamonga

3. Field Verification: Field verify existing conditions and dimensions prior to construction. Promptly notify Architect (Structural Engineer) in case of discrepancies.

4. Design Intent: Contract Documents indicate design intent for structure in its completed state. They do not indicate method of construction. Promptly notify Architect (Structural Engineer), prior to proceeding with Work, if design intent requires further clarification.

5. Deviations, Modifications and Substitutions to Approved Structural Drawings: Must be accepted in writing by Architect (Structural Engineer) and approved by Governing Code Authority. No deviation, modification or substitution will be accepted via shop drawing review.

6. Procedures of Construction: Contractor is responsible for procedures of construction complying with national, state and local safety ordinances. Site visits (including Structural Observation) by Architect (Structural Engineer) do not constitute supervision of methods of construction.

   A. Protection of Utilities: Locate existing utilities, including those not shown on Contract Documents, and protect them from damage. Contractor bears expense of repair or replacement of utilities in conjunction with execution of Work.
   B. Excavations: Protect structure, adjacent structures, adjacent properties, streets, and utilities during excavation utilizing lagging, shoring, underpinning and related procedures as may be required. Provide necessary supports for soil at sides of excavations. Contractor and affected trades shall refer to Geotechnical Report for more information. Shoring plans and designs are to be reviewed by Geotechnical Engineer for general conformance prior to commencement of work.
   C. Protection of Structure: Provide necessary measures to protect structure and adjacent buildings during execution of Work.
   D. Contractor Proposed Revisions: Where a revision of structural design or connection is proposed by Contractor to accommodate construction tolerances, construction sequence and/or dimension modifications, Contractor shall retain a structural engineer licensed in State of California to perform design. Submit stamped and signed design drawings and calculations to the Architect (Structural Engineer) for review and the Governing Code Authority for approval.
   E. Erection Plans: Determine phases of Work requiring erection plans according to applicable safety regulations. Maintain certified copies of erection plans at site during construction.
   F. Shoring, Bracing, and Other Temporary Supports: Design and erect shoring, bracing, and other temporary supports where structure has not attained design strength and as required for safe erection. Ensure floor, roof, and wall members are securely shored and braced during construction. Provide shoring at elevated beams and slabs supporting concrete or masonry walls during and after wall pour until wall attains design strength.
   G. Temporary / Construction Loading: Contractor shall retain a structural engineer licensed in State of California to perform design of temporary / construction related loadings on the completed or partially completed structure. See live load plans provided and ensure construction loads on completed structure do not exceed indicated design live load values without engineer evaluation. Notify affected sub-contractor trades as required.
   H. Fabrication, Shipment, and Erection of Structural Steel: Ensure stresses occurring during fabrication, shipment, and erection of structural steel are temporary and are less than design and allowable stress capacities of individual members. Do not impair full design and load carrying capacity of members due to fabrication, shipment, or erection. Contractor is responsible for controlling erection sequence, erection procedure, temperature differentials and weld shrinkage to minimize residue stresses. Provide additional materials for the erection of structural steel such as temporary bracing and guy cables as may be necessary at no additional cost. Remove these materials unless approved in writing by Owner. Do not tighten bolts in typical beam to column connections for erection purposes.
   I. Securing Reinforcing Steel, Dowels, Anchor Bolts and Embeds: Firmly support and accurately place complying with ACI standards prior to casting concrete or grout in masonry walls. Use ties and support bars in addition to reinforcing steel shown where necessary. No welding of reinforcing steel, including tack welding, is permitted unless otherwise accepted in writing by Architect (Structural Engineer). Provide plastic or plastic coated chairs and spacers when resting on exposed surfaces.
   J. Coordination Responsibility: Contractor is responsible for coordination of Work including that of sub-contractor trades.
   K. Core drilling shall of hardened concrete shall only be done after specific review by Architect (Structural Engineer) Core drilling shall not cut any reinforcing. Concrete coverage for reinforcement as described in these notes shall be maintained at locations of cores.

7. Submittals: Submit to Architect (Structural Engineer) as indicated on structural drawings and specifications. General Contractor shall review submittal for completeness and compliance with Contract Documents prior to submission. Submittals are not to contain copies / partial prints from Contract Documents. Contractor is responsible for development of complete shop drawings.

   A. Request for Information (RFI): Accompany RFI's with partial structural foundation or framing plans showing location in question and affected structural members. Copy partial plan from structural drawings and indicate grid line locations and floor level. Also provide properly drawn engineering sketches illustrating issues and Contractor's proposed solutions. Photographs are not acceptable substitutes to engineering sketches.
   B. Composite Slab Penetration Submittal: Submit to Architect (Structural Engineer) for each floor indicating size and location of each slab penetration and opening as necessary by all affected trades. Submit penetration plans together with corresponding metal decking or reinforcing steel shop drawings. Submit written statement from Special Inspector that no additional penetrations or openings were added to those shown in penetration submittal.
   C. Composite Concrete and Masonry Wall Penetration Submittal: Submit to Architect (Structural Engineer) for each wall indicating size and location of each wall penetration and opening as necessary by all affected trades. Submit penetration elevations together with corresponding reinforcing steel shop drawings. Submit written statement from Special Inspector that no additional penetrations or openings were added to those shown in penetration submittal.

8. Contract Documents Use: Review Contract Documents in their entirety before performing structural related Work and before developing shop drawings. Bring discrepancies to immediate attention of Architect (Structural Engineer) before starting Work.

   A. Scaling of Drawings: Not permitted.
   B. Additional Structural Requirements: See specifications.
   C. Building Geometry: See architectural drawings for building geometry including, but not limited to, top of floor and roof elevations; depressions; slopes; curbs; drains; trenches; slab and deck edge locations; wall overall dimensions; and size and locations of openings in floors, roof, and walls.
   D. Non-structural Items Requiring Special Provisions: See architectural, mechanical, plumbing, and electrical drawings for non-structural items requiring special provisions during construction. They include, but are not limited to, non-structural walls; size and locations of openings and sleeves penetrating structure; size and location of concrete curbs and pads; and size and location of piping, ductwork, and equipment anchorages mounted or suspended from structure. Verify exact size and location of equipment with equipment manufacturer.

9. Materials: Furnish and install in compliance with legally constituted public authorities having jurisdiction including county and local ordinances and safety orders of State Industrial Accident Commission, OSHA. The Architect (Structural Engineer) and Owner accept no responsibility for the contractors failure to comply with these requirements.

10. Penetrations, Embedments, and Openings in Structural Members: No penetration, embedment, opening, sleeve, pipe, or conduit shall occur in structural members including footings, slabs, walls, columns, and beams unless specifically shown or indicated on structural drawings.

11. Typical Details: Details on sheets indicated as typical are applicable throughout Project wherever the described condition occurs and may or may not be specifically referenced on structural drawings. Contractor is responsible for identifying these details and understanding extent of their application prior to performing Work. Details not shown or noted shall be similar to those shown for similar construction. Contractor shall submit RFI's for details such as this to Architect (Strucutral Engineer) prior to proceeding with work.

12. Evaluation Reports:

   A. For proprietary structural elements and products, product to hold Evaluation Report in compliance with applicable code for products intended use.
   B. Approved Evaluation Report Agencies:
      1. ICC (ICC-ES)
      2. IAPMO (IAPMO-ES)
      3. OSHPD (OPA/ OPM/ OSP/ OPD)
      4. City of Los Angeles (COLA/ RR)
      5. Miami-Dade (NOA)

B. DEFERRED SUBMITTAL ITEMS ANCHORED OR SUPPORTED BY STRUCTURE

1. Design Responsibility: Contractor to design and obtain separate Governing Code Authority approval for the deferred submittal items listed on GO.20

2. Shop Drawings and Structural Calculations: Submit design plans, details and calculations of deferred submittal items signed and sealed by a structural engineer licensed in State of California to Architect (Structural Engineer) for acceptance and to Governing Code Authority for approval prior to fabrication.

3. Design: Design components for imposed forces including lateral restraint complying with Applicable Code, Contract Documents, and applicable portions of AISI Specifications. If building lateral resisting system is used for lateral restraint, indicate load paths to building lateral resisting system in calculations and show connection forces on shop drawings. Where building provides vertical support, indicate loads and load paths to building in calculations and show connection forces on shop drawings. Dead load elements at lowest level of connection U.N.O. Design loads are as follows:

   A. Dead load: Self weight of deferred system (including supported components of other systems).
   B. Live load: Per applicable code.
   C. Seismic and Wind loads: Per applicable code. See General Notes Section A.1.
   D. Design Movement: Lateral Movement: Section A.1 of General Notes
      Vertical Movement: Live Load Deflection of L/360 (Limited to 1/2" maximum at building perimeter, 3/4" maximum at building interior)

4. Stabilizing Elements at Connections to Structural Members: Design connections of deferred submittal items to supporting structure such that torsion in supporting elements is avoided wherever possible. Where torsion in supporting element is resulted, provide beam bottom flange kicker brace per detail 10 or 11/S6.21 at each connection point.

C. QUALITY ASSURANCE (STRUCTURAL OBSERVATION, MATERIALS TESTING, and SPECIAL INSPECTION)

1. Structural Observation:

   A. The Architect (Structural Engineer) of record will perform visual observation of the construction as required CAC 4-333 and 4-341 in accordance with the governing code. These visual observations shall not be considered a substitute for special inspections.
   B. Coordination Responsibilities of Contractor: Notify Architect (Structural Engineer) 48 hours in advance of critical stages of construction indicated below so visits may be scheduled by Structural Observer. Failure by Contractor to meet observation schedule may require removal of subsequent Work for observation. Contractor to bear costs of removal and replacement of finished Work or framing damaged by removal process or as required for corrective action and for any associated scheduling delays.
   C. Pre-construction Meeting: Owner may coordinate and call for meeting between Architect (Structural Engineer) responsible for structural design, Structural Observer, Contractor, affected subcontractors and Special Inspector. Structural Observer will preside over this meeting. Purpose of meeting is to identify major structural elements and connections that affect vertical and lateral load resisting systems of structure and to review schedule of Structural Observation, Materials Testing, and Special Inspection of Project.
   D. Critical stages of construction requiring structural observation.
      a. Prior to pouring first concrete footing, all reinforcing in place.

2. Mill Test Reports Certifying Materials: Contractor to submit mill test reports certifying reinforcing steel, and structural steel are of identifiable tested stock to Owner, Special Inspector, Architect (Structural Engineer) and, upon request, to Governing Code Authority. Ensure materials are properly tagged for identification. If mill test reports cannot be made available or if material cannot be identified, Testing Laboratory will perform tests as directed by Architect (Structural Engineer). Contractor shall pay Testing Laboratory for costs related to tests and inspections of unidentifiable materials or materials furnished without mill test reports, materials found deficient after initial tests and inspections, or materials replacing deficient materials.

   A. Ultrasonic Examination of Heavy Rolled Shapes and Thick Plates at Proposed Welded Moment Connections: Where complete penetration groove welds occur at Groups 4 and 5 structural steel shapes, as defined in ASTM A6, and plates exceeding 2 inches thick, submit mill test reports to Architect (Structural Engineer) and, upon request, to Governing Code Authority. Mill test reports shall certify that Charpy V-notch testing was conducted in compliance with ASTM A6, Supplementary Requirement S5, including impact test complying with ASTM A673 at frequency P with minimum average value of 20 ft.-lbs. absorbed energy at 70 degrees Fahrenheit.

3. Weld Testing and Inspection: Testing Laboratory will submit weld test results to Owner, Contractor, Architect (Structural Engineer) and to Governing Code Authority. See Specifications for testing requirements not indicated on structural drawings.

   A. Structural Steel Welding: Apart from visual inspection and review of fabrication and erection reports of fabricator/erector's own quality control testing and inspection, Owner's Testing Laboratory will perform indicated shop and field inspection and testing. Testing Laboratory will be AWS Q.C.-1 certified and will provide inspectors for continuous inspection of steel fabrication and erection and structural welding. Shop and field testing of materials and welding will be as follows:

      a. Ultrasonic testing (UT) is required for all (100%) complete penetration welds. Test groove welding on continuity plates by ultrasonic testing after beam flange weld connection. Testing will be performed 24 hours or more after completion of welding. Weld backing removal areas and fillet welds will be subjected to magnetic particle examination.
         1. UT testing reduction: Where the initial rate for UT is 100%, the NDT rate for an individual welder or welding operator is permitted to be reduced to 25% provided that the number of welds containing unacceptable defects divided by the number of welds completed (reject rate) is 5% or less of the welds tested for the welder or welding operator. A sampling of at least 40 completed welds for a job shall be made for such reduction evaluation. See AISC 360-10 N5.5e and AISC 341 J6.2g for additional information.
         2. UT Reduction is NOT permitted at demand critical welds.
         3. Documentation: All NDT performed shall be documented per AISC 360-10 N5.5g

      b. Base metal thicker than 1-1/2 inches, subjected to through thickness weld shrinkage, will be ultrasonically tested directly behind such welds 48 hours or more after completion of welding.
      c. Welds shall be visually inspected and periodically measured (15 percent minimum).
      d. Check 10 percent of fillet welds by magnetic particle (ASTM 109 method). Check 25 percent of continuity plate fillet welds and beam fillet welds (100 percent in moment zones) by magnetic particle.
      e. Ultrasonically test column flanges located at proposed welded moment connections, continuity plates, doubler plates and base plates where column flange or plate thickness exceeds 1-1/2 inches. Test for evidence of laminations, inclusions or other discontinuities in accordance with ASTM A435, straight beam ultrasonic examination of steel plates, or ASTM A898, straight beam ultrasonic examination of rolled steel structural shapes, as applicable. Test zone to include area 6 inches above and below each beam flange connection. For plates, any discontinuity causing a total loss of back reflection not contained within 3-inch diameter circle, or one-half thickness of plate, whichever is greater, will be rejected. For rolled shapes, ASTM A898, Level I criteria applies. Testing will be performed on material prior to fabrication, after fabrication, and after final welding of beam.
      f. Amperage, voltage, polarity and electrode stick out will be verified for compliance with electrode manufacturer's recommendations.

4. Special Inspection: Per Chapter 17 of CBC and testing and inspection shown on S0.02.

D. EARTHWORK and FOUNDATIONS

1. Geotechnical Report: Perform soils work complying with foundation design based on recommendations in report no. G38.0000220084 prepared by LEIGHTON CONSULTING, INC.; dated December 6, 2023 and subsequent addenda letters. Maintain at site a copy of report and addenda. G1.01

2. Allowable Building Foundation Design Values per Geotechnical Report.

3. Grading, Excavations, Backfill and Compaction of Backfill: Comply with Geotechnical Report and requirements of Governing Code Authority and performed only under Continuous Special Inspection of geotechnical engineer. Building pads shall be over excavated per figure below as recommended in Geotechnical Report. If soft pockets are discovered during over excavation, additional over excavation will be required as directed by the Geotechnical Engineer.

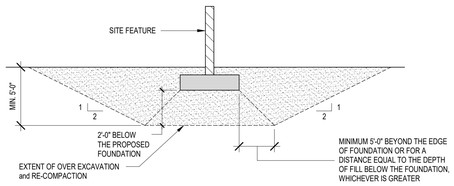
4. Foundation Excavations: Foundations are to bear on approved compacted fill as indicated in Geotechnical Report. Excavations are to be inspected by geotechnical engineer prior to placement of reinforcing steel and formwork. Ensure excavations are clean, dry and free of debris or loose soil. Slope sides of excavation not less than minimum slope indicated in Geotechnical Report. Cast concrete directly against excavated surfaces. Graphic presentation of extent of excavation below is based on Geotechnical Report. In case of discrepancy, information in Geotechnical Report shall take precedence.

5. Backfilling of Retaining Walls: Place after completion and inspection of waterproofing. Adequately shore retaining walls during backfill operation. Unless adequately shored, do not place backfill behind building structure retaining walls until concrete at elevated floor levels adjacent to walls are completely poured and have cured for at least 7 days at site walls, concrete shall reach full design strength prior to backfilling unless adequately shored.

6. Retaining Wall Design Values:
   A. Active earth pressure: 35pcf (triangular) At Level Backfill
   B. Additive Dynamic Earth Pressure (Where unbalanced backfill height exceeds 6ft): 35pcf (rectangular) At Level Backfill

   Allowable Site Foundation Design Values per Geotechnical Report.
   A. Bearing Capacity: 2000psf, for 2'-0" min. wide continuous retaining wall footings with 1'-0" min. embedment. (Values may be increased by 250psf per foot increase in embedment-depth and/or width to 4000psf max. Values may be increased by one-third for transient loading.)
   B. Passive Lateral Bearing Pressure: 270 pstft (4000 psf max.) (Values may be increased by one-third for transient loading.) Neglect upper 12" of soil where slab / pavement does not occur.
   C. Coefficient of Friction: 0.4 (Values may be increased by one-third for transient loading.) G1.01
   D. Combined Lateral Resistance: The allowable lateral resistance can be taken as the sum of the frictional resistance and passive resistance.

7. Allowable Caisson Foundation Design Values
   A. Bearing Capacity (End Bearing): 2500psf
   B. Passive Lateral Bearing Pressure: 150 psf/ft (1800psf max.) Neglect upper 18" of soil where slab / pavement does not occur.



E. REINFORCING STEEL

1. Reinforcing Steel: All bars shall be deformed.

   A. All bars unless indicated otherwise: ASTM A615, Grade 60 (See Note E.13)
   B. Bars to be welded: ASTM A706, Grade 60
   C. Additional Requirements for Vertical Bars (Excluding Ties) in Shear Walls: No additional requirements if ASTM A706, Grade 60 bars used. ASTM A615, Grade 60 bars are permitted provided actual yield strength based on mill tests does not exceed specified yield strength by more than 18,000 psi (retests shall not exceed this value by more than an additional 3,000 psi) and ratio of actual ultimate tensile stress to actual yield stress is not less than 1.25.

2. Wire and Spiral Reinforcing:

   A. Smooth welded wire fabric (W.W.F.): ASTM A1064, Fy = 65 ksi, flat sheets only - do not use rolled mesh. Lap 1-1/2 wire spaces (1 foot minimum). Offset laps in adjacent sheets to avoid continuous laps.
   B. Deformed wire stirrups (D4 and larger only): ASTM A1064, Fy = 65 ksi
   C. Spiral reinforcing: ASTM A1064, Fy = 65 ksi

3. Reinforcing shall be placed in accordance with the applicable American Concrete Institute (ACI) Standard and Concrete Reinforcing Steel Institute's (CRSI) "Manual of Standard Practice". Reinforcing shall be kept clean and free of rust.

4. Provide all accessories needed to support reinforcing in the positions shown in the drawings. Chairs and spacers for reinforcing shall be non-ferrous of plastic coated when resting on exposed concrete surfaces.

5. Shop Drawings: ACI 315, Part B. Show reinforcing steel placement including sizes, quantities, spacing, clearances, splice locations, lap lengths, and concrete coverage's and submit to Architect (Structural Engineer). Promptly notify Architect (Structural Engineer) prior to developing shop drawings if insufficient clear distances between reinforcing steel and other congestion is encountered. Notify Special Inspector of adjustments made from approved Contract Documents which are indicated on accepted shop drawings that facilitate field placement of reinforcing steel and concrete. All bars shall be marked so that they can easily be identified by the project inspector after installation.

6. Lap Splices: Provide Class B splices unless indicated otherwise. Splice bars only at locations indicated. If additional splice locations are proposed, promptly notify Architect (Structural Engineer) prior to developing shop drawings.

   A. Splices in Walls: Locate splices in horizontal bars at well-staggered locations. Do not splice vertical bars except at horizontal supports such as floor and roof diaphragms.

7. Mechanical Splice: Mechanical couplers shall have current Evaluation Report and satisfy ACI requirements for type 2 coupler for the applicable bar size / grade designation.

8. Minimum Clearances at Reinforcing Steel:

A.	at parallel reinforcing steel (including spliced bars):	1 inch, 1 bar diameter, or 4/3 times the minimum aggregate size whichever is greater. 1-1/2 inches, 1-1/2 bar diameters, or 4/3 times the maximum aggregate size whichever is greater, at columns, piers, and pilasters only. For bundled bars, minimum clear distances between units of bundled bars shall be same as single bars except bar diameter is derived from equivalent total area of bundle.
B.	at non-parallel reinforcing bars (n/a to perpendicular layers):	1 inch
C.	at embedded conduit / fixture:	1 inch

9. Minimum Concrete Coverage: Place bars as near to concrete surface as the following minimum coverages permit, unless noted otherwise:

A.	Slabs on Grade	locate at center of slab.
B.	Slabs Supporting Earth Above	1-1/2 inches from top.
C.	Formed Concrete Exposed to Earth or Weather	1-1/2 inches (#5 and smaller); 2 inches (#6 and larger)
D.	Concrete Poured Against Earth (Unformed)	3 inches
E.	Walls Above Grade, Exposed to Weather	See C. above
F.	Walls Above Grade, Not Exposed to Weather	3/4 inch (#11 and smaller); 1-1/2 inches (#14 and larger)
G.	Columns (Clear to Face of Ties)	1-1/2 inches
H.	Beams (Clear to Face of Ties)	1-1/2 inches
I.	Structural Slabs (Top and Bottom)	1 inch (#8 and smaller); 1-1/4 inches (#9 and larger)

10. Dowels at Construction Joints: Provide dowels matching size, grade, spacing, configuration, and quantity of reinforcing steel interrupted at construction joints, unless detailed otherwise. Dowels shall be lapped with a class B lap splice, UNO.

11. Bar Termination:

   A. Bars Terminating at Walls, Columns, Beams, and Foundations: Extend bars to within 2 inches (3 inches at concrete poured against earth) of far face of wall, column, beam, or foundation and provide standard 90 degree hook unless detailed otherwise.
   B. U.N.O. at contractors option terminate reinforcing in 180 degree hook in lieu of standard 90 degree hook. Submit RFI where contractor wishes to use headed terminator (HRC 555 per ICC-ESR 2935) for clarification of necessary detail revisions.

12. Bars Interrupted by Structural Steel: Extend bars to within 2 inches of steel face and provide standard 90 degree hook unless detailed otherwise.

13. Welding: AWS D1.4, edition adopted by applicable code.

   A. Acceptable Reinforcing Steel for Welding: ASTM A706. If welding of reinforcing steel other than A706 is desired, submit proposed procedure, indicating conformance to Applicable Code and requirements of Governing Code Authority, to Architect (Structural Engineer) for acceptance and to Governing Code Authority for approval prior to execution.
   B. Rebar to rebar weld not allowed except where specifically indicated on plans. Provide electrode E80XX (80 ksi) where permitted.
   C. Welder Certification: As required by Governing Code Authority.
   D. See welding notes in Structural Steel Section of these notes for additional requirements.
   E. ASTM A615 reinforcing steel may be welded provided a chemical analysis is performed to determine carbon equivalency, to establish minimum preheating requirements. Heat sticks shall be used 6" from weld to verify preheat temperatures. Chemical analysis reports shall be provided to architect (structural engineer) prior to welding.

14. Bending: Bend cold unless otherwise accepted by Architect (Structural Engineer). Do not field-bend reinforcing steel bars embedded in concrete unless otherwise accepted in writing by Architect (Structural Engineer). Where accepted, provide bending in accordance with CRSI Manual of Standard Practice.

15. Reinforcing Steel Allowance: In addition to reinforcing steel indicated in Contract Documents, allow for an additional 2 tons of reinforcing steel to be constructed under direction of Architect (Structural Engineer) during construction. Direction will be given during multiple occasions. Reinforcing steel under this allowance will be of any size, shape and grade. Quantity of pieces and location in Project will vary. Include in this allowance fabrication and erection and necessary construction services such as shop drawing preparation, and access for inspection. Submit expenditures in writing for any part of this allowance to Architect (Structural Engineer) prior to fabrication and erection. The unused portion of this allowance shall be credited to the owner at the completion of the project.

16. Fusion welded preassembled cages:

   A. Bars to be welded conform to general note E.1.b.
   B. Fusion process can be used only to weld the holding bars to the rebar, no rebar to rebar fusion welding is permitted.
   C. If field conditions result in conflicts with other structural members (ex anchor bolts) the rebar must be relocated in the field to avoid said conflicts.
   D. All welded materials and welding materials must conform to appropriate ASTM standards.

F. CAST-IN-PLACE CONCRETE

1. Applicable Standards: ACI 318 "Building Code Requirements for Structural Concrete", ACI 301 "Specifications for Structural Concrete" and Concrete Reinforcing Steel Institute's (CRSI) "Manual of Standard Practice" except as amended in California Building Code Chapter 19 and as modified by supplemental requirements herein. Concrete mixing shall comply with ASTM C94.

2. Portland Cement: ASTM C150, type II / V. Submit mill test with certification of compliance to Architect (Structural Engineer)

3. Aggregates:

   A. Normal Weight Concrete Aggregate: ASTM C33 for aggregates of natural sand and rock. Maximum aggregate size is 1-1/2 inches at foundations and slabs on grade and 1 inch elsewhere. At contractors option reduce maximum aggregate size as required for workability and placement in areas of congestion. Combined aggregate gradation of 3/8" maximum (pea gravel) shall not be used.
   B. Light Weight Aggregate for Structural Concrete: ASTM C330, expanded shale light weight aggregate.

4. Minimum 28-Day Concrete Compressive Strengths and Types:

Location in Structure	Compressive Strength and Type of Concrete	Max. W/C Ratio
All Concrete U.N.O on Structural Drawings	4500 psi normal weight (145 pcf)	0.45
Site Features	4500 psi normal weight (145 pcf)	0.45

5. Slump: Per ACI 301, CH. 4 and CBC Table 1705.3.

6. All concrete above grade, including, slab on grade, deck fill, wall, topping slab, stair landing and tread shall have 1.5 pounds of 3/4" long fibrous reinforcing per cubic yard of concrete.

7. Lean Concrete: Where specifically indicated, containing 2 sacks of cement per cubic yard of concrete. Use only where specifically called for.

8. Non-shrink Grout: ASTM C1107, cementitious, non-metallic attaining a compressive strength of 8000 psi.

9. Concrete Mix Design Submittal: Prior to ordering concrete, submit for each compressive strength and type of concrete required designed, signed, and sealed by a registered Civil or Structural Engineer in State of California to Architect (Structural Engineer), Special Inspector and to Governing Code Authority complying with California Building Code, Chapter 19.

10. Construction Joint: Roughen surface to 1/4-inch amplitude. Clean, remove laitance, thoroughly wet and remove standing water before placing new concrete. Submit to Architect (Structural Engineer) at least 14 days prior to placing concrete indicating locations of construction joints and extent of pours. Place joints at locations to minimize effects of shrinkage as well as being placed at points which least impair strength of structure. Provide dowels as directed.

11. Embedments and Penetrations in Concrete: No penetration through structural concrete is permitted unless shown in these drawings or specifically accepted in writing by Architect (Structural Engineer). Do not cut any reinforcing.

   A. Pipes, Sleeves, Conduits, and Ducts: Not permitted embedded or penetrating concrete footings, beams, columns, walls or concrete cast over metal decking, except as shown in these drawings.
   B. Conduits Embedded in Structural Concrete Slabs: Not permitted unless limited to two layers of 2 inch outside diameter conduits and smaller spaced 3x conduit diameter center to center (3" minimum) and confined to and secured within middle third of slab thickness. Do not use reinforcing steel to support embedded conduit (see general note E.8). No conduit embedded in concrete cast over metal decking is permitted. No aluminum conduit is permitted.

12. Chamfered Corners: Provide 3/4-inch chamfer at exposed corners of columns, beams and walls except where structural walls are laid flush with column or beam faces, unless detailed otherwise.

13. Curing: Maintain concrete above 50 degrees Fahrenheit and in a moist condition for a minimum of 7 days after placement unless otherwise accepted by Architect (Structural Engineer).

14. Non-Structural Topping slab shall be normal weight concrete reinforced with 6x6-W3.5x3.5 W.W.F. at center line of slab U.N.O.

F. CAST-IN-PLACE CONCRETE CONT.

15. No more than one class of concrete shall be on site at one time.

16. The maximum size for a single elevated concrete slab pour shall be 25,000 sq. ft. and shall have a maximum length to depth ratio of 2:1.

17. The maximum water-soluble chloride ION (CI) content in concrete by percentage of weight cement is 0.30.

18. Where styrofoam is indicate below/adjacent to concrete, provide per specification section 313219.

G. PROPRIETARY ANCHORAGES and FASTENERS

1. Anchorages:

   A. Drill and Epoxy Anchors:
      Concrete: HILTI HIT-RE 500 V3 adhesive system using threaded steel rods conforming to ASTM A193, grade 105, or reinforcing steel conforming to ASTM A615, grade 60, or ASTM A706, grade 60, complying with ICC-ES Report No. 3814.
      Masonry: HILTI HIT-HY 270 adhesive system using threaded steel rods conforming to ASTM A193, grade 105, or reinforcing steel conforming to ASTM A615, grade 60, or ASTM A706, grade 60, complying with ICC-ES Report No. 4143.
      Installers to be certified by manufacturer. Substituting drill and epoxy anchors for cast-in-place reinforcing embedments will not be accepted.
   B. Mechanical Anchors:
      Concrete: HILTI KB-TZ II carbon steel expansion anchors complying with ICC-ES Report No. 4266.
      Masonry: HILTI KB-TZ II carbon steel expansion anchors complying with ICC-ES Report No. 4561.
   C. Welded Shear Studs: Nelson SSL flux filled, headed stud anchors, 60,000 psi minimum ultimate tensile strength, automatically end welded in field conforming to ASTM A29 and complying with ICC-ES Report No. 2856.
   D. Welded Deformed Anchors: Nelson D2L, cold rolled, deformed steel reinforcing bars conforming to ASTM A496 and complying with ICC-ES Report No. 2907.

2. Fasteners:

   A. Powder Actuated Fasteners: Hilti Low-velocity Powder Actuated Drive, 0.157" diameter (X-U), complying with ICC-ES Report No. 2269. Provide appropriate washer between fastener head and light gauge metal or wood surface. (All shot pins shall be of this kind) Shot pins shall not be used at PT slab or beams.
   B. Self-Drilling Metal Screws (Indicated "Screws" on Drawings): Hilti self-drilling screw complying with ICC-ES Report No. 2196.
   C. Concrete screws: Hilti Kwik HUS-EZ Screw complying with ICC-ES report No. 3027.
   D. Mansonry Screw: Hilti Kwik HUS-EZ Screw complying with ICC-ES report No. 3056.

3. Installation: See manufacturer's written instructions and referenced ICC-ES evaluation report. Provide testing at post installed anchors in concrete as follows:
   A. Drilling Holes in Existing Concrete or Masonry for Anchorages: Use non-pneumatic, rotary hammer tools with ANSI compliant non-rebar cutting drill bits to drill holes of proper tolerances. Locate existing rebar including prestressing and post-tensioning tendons using non-hazardous, non-destructive methods with accurate location tolerances (plus or minus 1/4-inch) prior to drilling holes to avoid cutting or damaging. Holes shall be thoroughly cleaned per manufacturer's written recommendations prior to installation of anchorages.
   B. Deleterious Materials: Keep anchorages, including holes for drill and epoxy anchors and mechanical anchors, free of dust, grease, and other materials that impair bond.

4. Provide testing at post installed anchors in concrete as follows:
   A. At expansion anchors or screw anchors: Provide testing in accordance with referenced Evaluation Report..
   B. At drill and epoxy anchors: provide pull testing to tension values noted on corresponding detail. Apply testing to 10% of anchors at each condition. If failure occurs, increase frequency to 100% until 20 consecutive anchors pass pull testing then resume initial frequency. If subsequent failures occur, notify SEOR for further direction.

5. All concrete anchors which are exposed to the weather shall be stainless steel or hot dipped galvanized.

6. Contractor is responsible for coordinating locations of post installed anchors / reinforcing with existing reinforcing or embedded conduit. Do not cut, hit, or otherwise damage existing reinforcing or embedded conduit during anchor / reinforcing installation.

H. STRUCTURAL STEEL

1. Applicable Standards: AISC 360 "Specification for Structural Steel Buildings" AISC 341 "Seismic Provisions for Structural Steel Buildings" and AISC "Code of Standard Practice For Steel Buildings and Bridges" except as amended in Applicable Code Chapter 22 and as modified by supplemental requirements herein.

2. Structural Steel: Provide readily identifiable structural steel in compliance with Applicable Code Section 2203A.1. Furnish structural steel complying with the following ASTM standard specifications, unless noted otherwise:

A.	Structural Steel Unless Indicated Otherwise:	ASTM A992, Grade 50
B.	Angles and Channels:	ASTM A36
C.	Plates:	ASTM A572, Grade 50
D.	Pipes:	ASTM A53, Grade B (35 ksi)
E.	Rectangular Tubes:	ASTM A500, Grade C (50 ksi)
F.	Round Tubes:	ASTM A500, Grade C (46ksi)
G.	Anchor Bolts (Concrete):	ASTM F1554, grade 55 (weldable)
H.	Bent Plates	ASTM A36
I.	Anchor Bolts (CMU):	ASTM A307

3. Holes for Bolted Connections and Anchor Bolts: AISC "standard" holes limited to 1/16-inch larger in diameter than nominal bolt diameter, unless noted otherwise. See Note 9, for oversized holes for anchor bolts in base plates.

4. High Strength Bolts, Nuts and Washers: AISC "Specification for Structural Joints Using High-Strength Bolts."

   A. Hardened Washers: ASTM F436, under nuts except where plate washers are used. Provide beveled washers where joint face slope is greater than 1:20.
   B. Tightening: Snug tight for all high strength bolts except tighten A325-SC and A490-SC bolts to at least the minimum proper tension according to AISC Specification.
   C. All bolts parts of "SFRS" shall be "SC" type bolts.

5. Welding:

   A. Applicable Welding Standard: Applicable Code and latest adopted edition of AWS D1.1 / AWS D1.8 AND AISC 360 / AISC 341.
   B. Pre-qualified and Non Pre-qualified Welds: Welds shall be pre-qualified in compliance with Applicable Welding Standard. Where non pre-qualified welds are to be used, qualify by test and procedure qualification test record complying with Applicable Welding Standard.
   C. Work performed by Welders and Inspectors: Adhere to approved Welding Procedure Specification (WPS). Each welder and inspector shall retain a copy of WPS.
   D. Pre-construction Meeting: Conduct to include Architect (Structural Engineer), fabricator, erector, Contractor and inspectors to discuss Welding Procedure Specification (WPS).
   E. Welding Procedure Specification (WPS): Fabricator/erector to develop WPS in compliance with Applicable Welding Standard. Submit to Architect (Structural Engineer) for acceptance and Governing Code Authority for approval prior to fabrication. WPS submittal to include the following:

      a. Welding manufacturers' specifications.
      b. Information required by Applicable Code, Contract Documents and any other information necessary to produce welds that are in compliance with Applicable Welding Standard.
      c. Detailed sequence of weld sketches addressing effects of welding heat for welds at joints and within seismic frame assemblies as a whole. Plan sequence of erection and welding to minimize locked in stresses and distortion considering effects of welding heat. Procedures submitted shall result in completed connections which comply with design intent of structural drawings. No deviation from structural drawings is permitted unless otherwise accepted by Architect (Structural Engineer) and approved by Governing Code Authority.
      d. Welding parameters recommended by electrode manufacturer.
      e. List of applicable base metal types and thicknesses.
      f. Welding joint sketches including joint type, weld type, joint geometry, and applicable dimensions. Individual weld passes shall be identified in sketches and numbered to identify the sequ

MECHANICAL, ELECTRICAL, PLUMBING, AND SITEWORK COMPONENT ANCHORAGE NOTES

1. PROVIDE SHOP DRAWINGS WITH LARGE SCALE PLANS AND SECTIONS SHOWING HANGERS AND BRACING LOCATIONS. SHOP DRAWINGS SHALL BE PREPARED BY A CIVIL / STRUCTURAL ENGINEER LICENSED IN THE STATE OF CALIFORNIA AND SHALL BE STAMPED AND SIGNED. INDICATE HANGERS AND BRACING LOADS ON STRUCTURAL FRAMING PLANS WHERE COMPONENT IS SUPPORTED BY STRUCTURE.

2. UNLESS SPECIFIED ON STRUCTURAL DRAWINGS, ANY ALTERATIONS OR MODIFICATIONS TO A STRUCTURAL ELEMENT BY CUTTING, DRILLING, BORING, BRACING, WELDING, ETC. SHALL HAVE WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD TO STARTING WORK.

3. ALL MECHANICAL, PLUMBING, ELECTRICAL, AND SITEWORK COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE SHOP DRAWINGS NOTED IN ITEM 1. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM AREA NOTED BELOW. WHEN BRACING AND ATTACHMENTS AREA BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP	MD	PP	E	
☐	☐	☐	☐	OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
■	■	■	■	OPTION 2: SHALL COMPLY WITH THE APPLICABLE PRE-APPROVAL (OPM#): MASON WEST 0043-13, MW SAUSSE 0203-13, OR TOLCO 0052-13.
■	■	■	■	OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009) INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILS ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD AND CONNECTION LEVEL FOR THE PROJECT AND CONDITIONS.

CITY OF RANCHO CUCAMONGA
BUILDING & SAFETY DEPARTMENT
APPROVED
By: RJ for Zack Neighbors Date: Jan 24, 2024
Note: All contractors and subcontractors are required to obtain approval from the Business License Division before scheduling a final inspection.

STATEMENT OF SPECIAL INSPECTION

Special Inspections shall be performed in accordance with Chapter 17 of the California Building Code and any local ordinance. See also Specification Section 01 45 00 Quality Control

■ **(FILLED BOXES INDICATES REQUIRED ITEMS)**

Section 1705 Special Inspections

1. ■ **Steel, section 1705.2**. Special inspections of steel construction shall be conducted in accordance with CBC section 1705.2.
2. ■ **Concrete, section 1705.3**. Special inspections of concrete construction shall be conducted in accordance with CBC section 1705.3.
3. ☐ **Masonry, section 1705.4.** Special inspections of masonry construction shall be conducted in accordance with CBC section 1705.4.
4. ☐ **Wood, section 1705.5**. Special inspections of wood construction shall be conducted in accordance with CBC section 1705.5.
5. ■ **Soil, section 1705.6**. Special inspections of soils shall be conducted in accordance with CBC section 1705.6.
6. ☐ **Driven Deep Foundation, section 1705.7.** Special inspections of driven deep foundations shall be conducted in accordance with CBC section 1705.7.
7. ☐ **Cast-in-Place Deep Foundation, section 1705.8.** Special inspections of cast-in-place deep foundations shall be conducted in accordance with CBC section 1705.8.
8. ☐ **Shotcrete, section 1705.19.** Special inspections of shhotcrete shall be conducted in accordance with CBC section 1705.19.
9. ■ **Other, section 1705.1.1.** The following describes additional systems or elements subject to special inspection as required by the Chief building Official, Engineer of Record, manufacturer's instructions or Evaluation Report: Proprietary structural elements, systems, or fasteners holding evaluation report.

Section 1705.12 Special Inspections for Seismic Resistance

The following are applicable to specified seismic force-resisting systems, designated seismic systems, and architectural, mechanical, and electrical components, see sections 1705.12 to determine applicability.

Seismic-Force Resisting Systems. The following describes the seismic-force resisting system(s) subject to special inspection per applicable sections 1705.12 as indicated below:

1. ■ **Structural Steel, section 1705.12.1**. Continuous inspection is required for structural steel welding in accordance with AISC 341-16.
2. ☐ **Structural Wood Systems, section 1705.12.2**. The following describes the nailing, bolting, anchoring and other fastening components subject to periodic special inspection.
3. ☐ **Cold-Formed Steel framing, section 1705.12.3**. The following describes the welding, screw attachment, bolting, anchoring and other fastening components such as struts, braces and hold-downs subject to periodic inspection.
4. ☐ **Designated Seismic System Verifications, section 1705.12.4**. The special inspector shall verify the certificate of compliance, and that labeling, anchorage and mounting conforms to the certificate.
5. ■ **Architectural components, section 1705.12.5**. Periodic special inspection is required during the erection and fastening of suspended ceiling system, exterior cladding, interior and exterior nonbearing walls, access floors, and interior and exterior veneer.
6. ■ **Plumbing, Mechanical, and Electrical Components, section 1705.12.6**. Periodic special inspection is required during the installation and anchorage of:
   - ■ Electrical equipment for emergency or standby power system,
   - ■ Other electrical equipment,
   - ■ Piping system(s) and associated mechanical units intended to carry flammable, combustible or highly toxic contents.
   - ☐ HVAC ducts intended to carry hazardous materials.
   - ☐ Vibration isolation systems.
7. ☐ **Storage racks, section 1705.12.7**. Periodic special inspection is required during the anchorage of storage racks 8 feet or greater in height.
8. ☐ **Seismic Isolation System, section 1705.12.8**. Periodic special inspection is required during the fabrication and installation for isolator units and energy dissipation devices.

Section 1705.13 Structural Testing for Seismic Resistance

Note: Documentation referred to below shall be referenced and made part of the special inspector's daily and final report.

1. ☐ **Masonry, section 1705.4 and TMS402-16 / TMS602-16.**
   - ☐ The special inspector shall verify certificates of compliance prior to construction.
   - ☐ The special inspector shall verify tests and submittal per TMS602-16 Table 3 (Level 1 QA)
   - ☐ The special inspector shall verify tests and submittal per TMS602-16 Table 3 (Level 2 QA)
2. ■ **Reinforcing and Prestressing Steel, section 1704.5 and ACI 318-14.**
   - ■ The special inspector shall verify certified mill test reports for each delivery of reinforcing steel for steel used to resist flexural, shear and axial forces in intermediate or special moment frames, and boundary elements of special reinforced concrete or masonry shear wall.
   - ☐ ASTM A 615 reinforcing steel grade 40 or 60 used to resist flexural or axial forces in special moment frames and boundary elements in shear walls. The special inspector shall verify testing demonstrates requirements of ACI 318-14 section 20.2.2.5 are met- 1) actual yield strength shall not exceed *fy* by more than 18,000 psi, 2) the ratio of actual tensile strength to actual yield strength is not less than 1.25, 3) minimum elongation in 8in shall be atleast 14% for bar sizes #3 through #6, at least 12% for bar sizes #7 though #11.
   - ☐ ASTM A 615 reinforcing steel specified to be welded. The special inspector shall verify chemical testing report demonstrates weldability per section 26.6.4.1 of ACI 318-14 and ANSI/AWS D1.4. Above documentation shall be referenced and made part of the special inspector's daily and final report.
3. ■ **Structural Steel, section 1705.13.1**. The following describes required testing of welds, base metal, weld tab removal sites, and thermally cut surfaces of beam copes or access holes per CBC section 1705.13 and AISC 341-16. MT=Magnetick Particle Testing section J6.2a AISC 341-16, UT=Ultrasonic Testing persection J6.2a AISC 341-16. Testing procedures and acceptance criteria shall conform to AISC 341-16 and AWS D1.1.
   - ■ K-area welding- web area shall be MT'd for cracks in the k-area base metal within 3 inches minimum of the weld.
   - ■ Complete joint penetration groove welds- All shall be UT'd for materials 5/16 inches or thicker.
   - ■ Complete joint penetration groove welds- 25% of all beam to column connections shall be MT'd.
   - ■ Base metal for lamellar tearing- UT testing for discontinuities behind and adjacent to weld fusion line for all complete joint penetration groove welded connections for tension loading in the through thickness direction of base metal greater than 1 1/2 inch thickness to connected piece greater than 3/4 inch.
   - ☐ Flange and web thicknesses exceeding 1 1/2 inches- All welded splices and connections, thermally cut surfaces of beam copes and access holes shall be MT or penetrant tested.
   - ■ Ends of welds from which a weld tab has been removed shall be MT'd. (Note: n/a for continuity plate weld tabs or plates 1/4 inch and thinner)
   - ■ UT percentage reduction protocal per AISC 341-16 J6.2g.
   - ■ MT percentage reduction protocol per AISC 341-16 J6.2g.
   - ■ High-strength bolting per ASIC 341-16 J7.

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue,
Suite 100
Irvine, California 92617

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

REGISTERED PROFESSIONAL ENGINEER
BRYAN G. SEAMER
No. 58889
CIVIL
STATE OF CALIFORNIA

This document and all other project documents, ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are copyright protected, are the property of LPA, Inc. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as set forth in the contractual agreement between LPA and its Client. The unauthorized disclosure and/or use of the project documents (including the creation of derivative works), may give rise to liability for copyright infringement, unlawful disclosure, use or misappropriation of property rights held by LPA. The unauthorized use of the project documents will give rise to the recovery of monetary losses and damages including attorney fees and costs for which the unauthorized user will be held liable.
Project documents describe the design intent of the work and are not a representation of as-built or existing conditions. LPA is not responsible for any discrepancies between the project documents and the existing conditions.

© LPA, Inc.

MEMORIAL PARK
10597 TOWN CENTER DRIVE,
RANCHO CUCAMONGA, CA 91730
Developed for
CITY OF RANCHO CUCAMONGA

Revision	Date

Submittal	Date
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/12/2023
50% CD	10/06/2023
100% CD	11/03/2023

Job Number	30548.02
Date Published	11/03/2023
Checked By	BN
Scale	As indicated

SPECIAL INSPECTIONS

S0.02

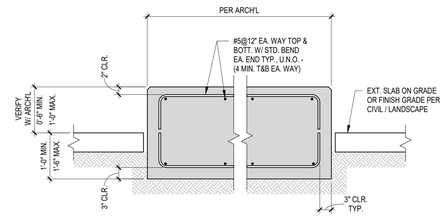
CITY OF RANCHO CUCAMONGA
BUILDING & SAFETY DEPARTMENT

APPROVED

By: RJ for Zack Neighbors Date: Jan 24, 2024

Note: All contractors and subcontractors are required to obtain approval from the Business License Division before scheduling a final inspection.

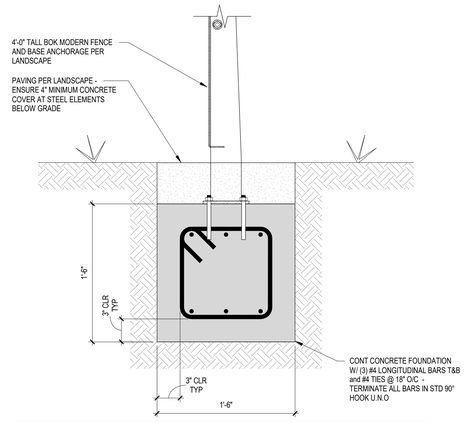
NOTE:
SEE ARCHITECTURAL - COORDINATE PAD EXTENT WITH UNIT BASE DIMENSIONS AND ANCHOR EDGE DISTANCE REQUIREMENTS.



ON GRADE

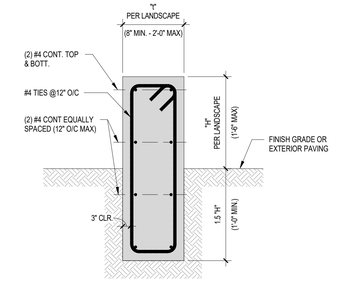
NOTES:
SEE MECHANICAL and ELECTRICAL DRAWINGS FOR THE FOLLOWING:
1. LOCATION and DIMENSIONS OF BASES.

TYPICAL PAD AT SITE EQUIPMENT — N.T.S. — 03

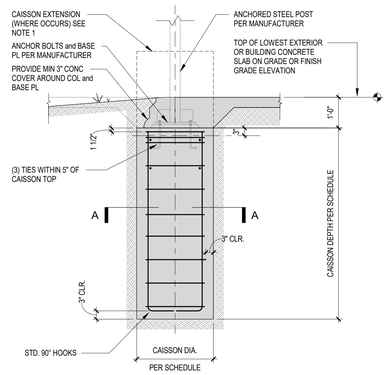


BOK-MODERN FENCING FOUNDATION — N.T.S. — 06

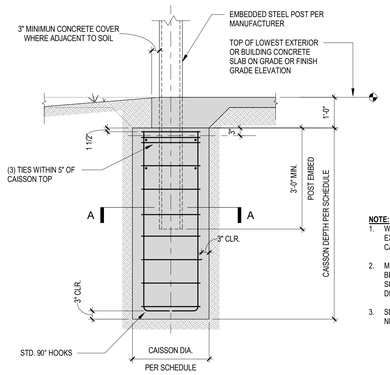
NOTE:
1. AT SITE FEATURES: COORDINATE CURB EXTENT WITH ARCHITECTURAL, LANDSCAPE, AND CIVIL DRAWINGS.
2. SEE ARCHITECTURAL, LANDSCAPE, AND CIVIL DRAWINGS FOR CHAMFER (WHERE OCCURS).



CONCRETE SEAT WALL / CURB AT GRADE — N.T.S. — 02



CAISSON DETAIL AT ANCHORED POST

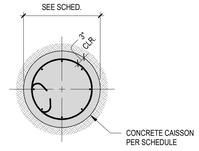


CAISSON DETAIL AT EMBEDDED POST

CAISSON SCHEDULE

DESIGNATION	DESCRIPTION	CAISSON				HEIGHT FROM GRADE	REFERENCE
		DIA.	DEPTH	VERTICAL BARS "Bv"	TIES		
3A	FLAG POLE	30"	5'-6"	(8) #6	#4 @ 6" O/C	35'-0" MAX	

NOTE:
1. WHERE NOTED ON LANDSCAPE DWG., PROVIDE EXTENSION OF CAISSON ABOVE GRADE. CAISSON DEPTH BELOW GRADE TO REMAIN.
2. MINIMUM CENTER TO CENTER SPACING BETWEEN ADJACENT CAISSON FOUNDATIONS SHALL BE THREE TIMES THE LARGER CAISSON DIAMETER.
3. SEE ELECTRICAL DRAWINGS REGARDING NECESSARY GROUNDING AT LIGHT POLES.



SECTION A-A

TYP. CAISSON SCHED. and DETAIL — N.T.S. — 01

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue,
Suite 100
Irvine, California 92617

AMG & ASSOCIATESS
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

REGISTERED PROFESSIONAL ENGINEER
BRYAN G. SEAMER
No. 54889
CIVIL
STATE OF CALIFORNIA

This document and all other project documents, ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are copyright protected, are the property of LPA, Inc. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as set forth in the contractual agreement between LPA and its Client. The unauthorized disclosure and/or use of the project documents (including the creation of derivative works), may give rise to liability for copyright infringement, unlawful disclosure, use or misappropriation of property rights held by LPA. The unauthorized use of the project documents will give rise to the recovery of monetary losses and damages including attorney fees and costs for which the unauthorized user will be held liable.
Project documents describe the design intent of the work and are not a representation of as-built or existing conditions. LPA is not responsible for any discrepancies between the project documents and the existing conditions.

© LPA, Inc.

MEMORIAL PARK
10597 TOWN CENTER DRIVE,
RANCHO CUCAMONGA, CA 91730
Developed for
CITY OF RANCHO CUCAMONGA

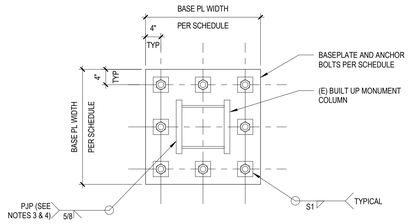
Revision	Date

Submittal	Date
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/12/2023
50% CD	10/06/2023
100% CD	11/03/2023

Job Number	30548.02
Date Published	11/03/2023
Checked By	BN
Scale	As indicated

TYPICAL SITE DETAILS

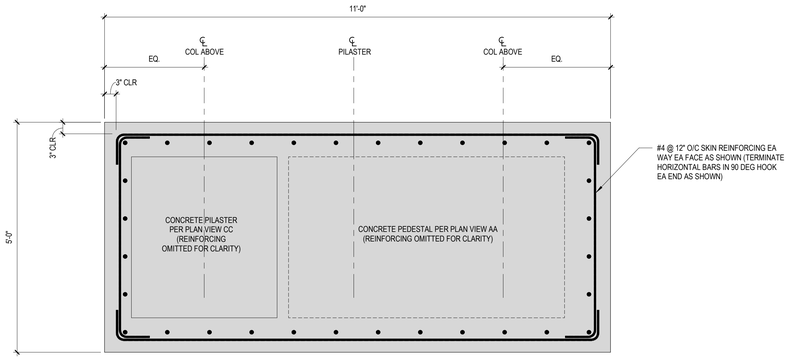
S1.01



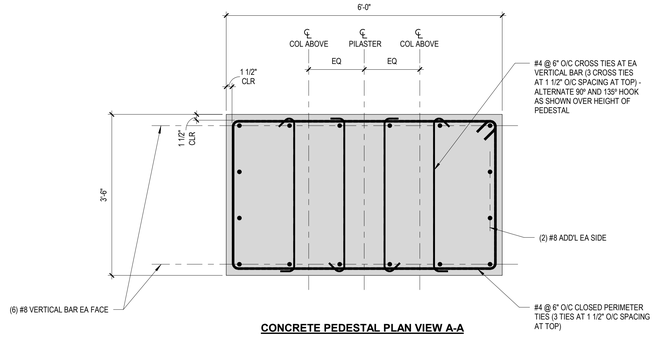
MONUMENT BASE PLATE PLAN VIEW B-B

BASE PLATE SCHEDULE

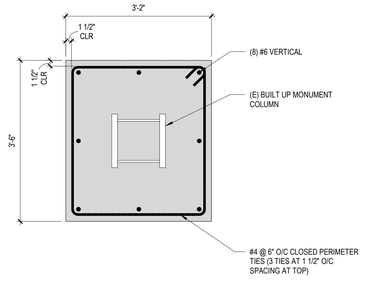
COLUMN SIZE	BASE PLATE			ANCHOR BOLT		
	THICKNESS	WIDTH	LENGTH	F1554-105	WASHER SIZE	WASHER WELD (S1)
MONUMENT	2"	26"	26"	(8) 1 1/2"Ø	1/2" x 4" SQ	3/8"



CONCRETE PILASTER PLAN VIEW D-D

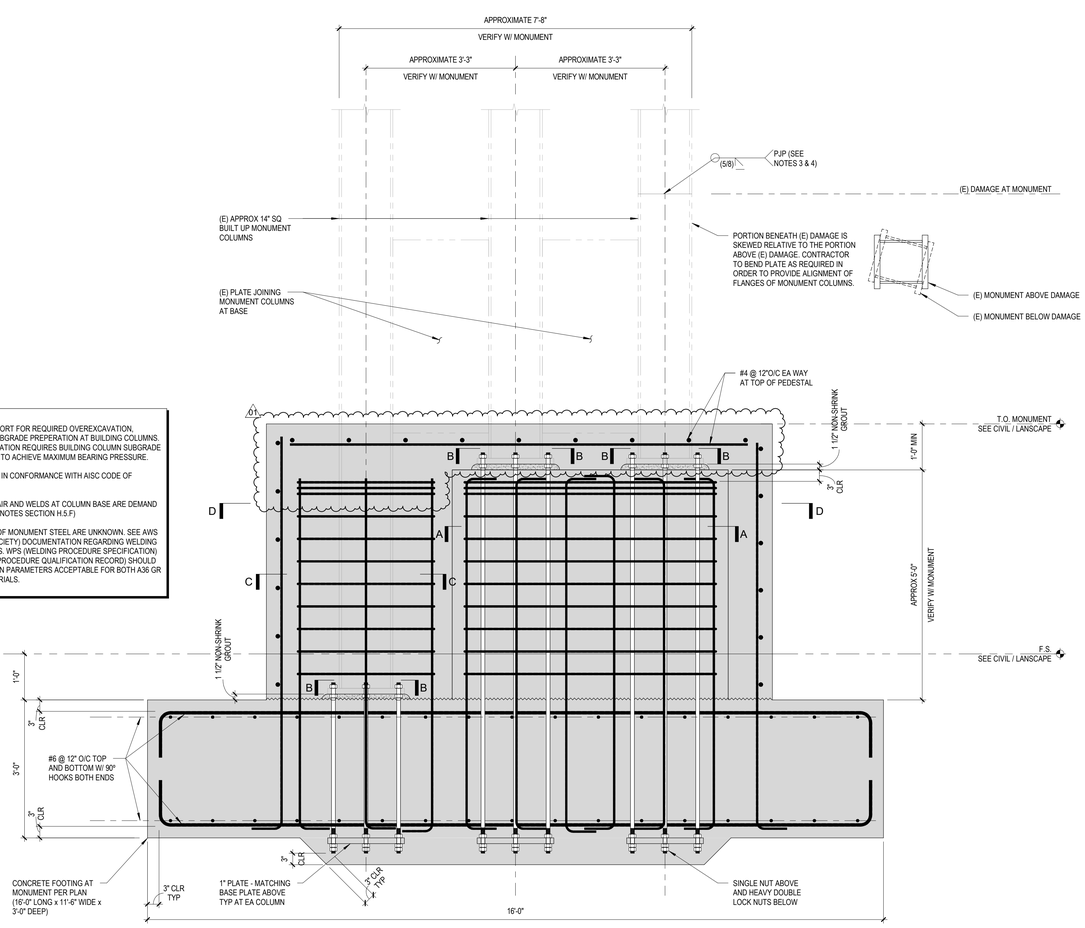


CONCRETE PEDESTAL PLAN VIEW A-A



CONCRETE PILASTER PLAN VIEW C-C

NOTES:
1. SEE GEOTECHNICAL REPORT FOR REQUIRED OVEREXCAVATION, RECOMPACTOIN, AND SUBGRADE PREPERATION AT BUILDING COLUMNS. MONUMENT SIGN FOUNDATION REQUIRES BUILDING COLUMN SUBGRADE PREPERATION IN ORDER TO ACHIEVE MAXIMUM BEARING PRESSURE
2. PREPARE COLUMN ENDS IN CONFORMANCE WITH AISC CODE OF STANDARD PRACTICE
3. WELDS AT COLUMN REPAIR AND WELDS AT COLUMN BASE ARE DEMAND CRITICAL (SEE GENERAL NOTES SECTION H.5.F)
4. MATERIAL PROPERTIES OF MONUMENT STEEL ARE UNKNOWN. SEE AWS (AMERICAN WELDING SOCIETY) DOCUMENTATION REGARDING WELDING OF UNKNOWN MATERIALS. WPS (WELDING PROCEDURE SPECIFICATION) AND SUPPORTING PQR (PROCEDURE QUALIFICATION RECORD) SHOULD BE DEVELOPED BASED ON PARAMETERS ACCEPTABLE FOR BOTH A36 GR 36 AND A572 GR 50 MATERIALS.



CITY OF RANCHO CUCAMONGA
BUILDING & SAFETY DEPARTMENT
APPROVED
By: RJ for Zack Neighbors Date: Aug 27, 2024
Note: All contractors and subcontractors are required to obtain approval from the Business License Division before scheduling a final inspection.

MONUMENT FOUNDATION AND ANCHORAGE | 3/4" = 1'-0" | 01

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue, Suite 100
Irvine, California 92617

AMG & ASSOCIATESS
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

REGISTERED PROFESSIONAL ENGINEER
BRYAN G. SEAMER
No. 54899
STRUCTURAL
OF CALIFORNIA

This document and all other project documents, ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are copyright protected, are the property of LPA, Inc. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as set forth in the contractual agreement between LPA and its Client. The unauthorized disclosure and/or use of the project documents (including the creation of derivative works), may give rise to liability for copyright infringement, unlawful disclosure, use or misappropriation of property rights held by LPA. The unauthorized use of the project documents will give rise to the recovery of monetary losses and damages including attorney fees and costs for which the unauthorized user will be held liable.
Project documents describe the design intent of the work and are not a representation of as-built or existing conditions. LPA is not responsible for any discrepancies between the project documents and the existing conditions.

© LPA, Inc.

MEMORIAL PARK
10597 TOWN CENTER DRIVE,
RANCHO CUCAMONGA, CA 91730
Developed for
CITY OF RANCHO CUCAMONGA

Revision	Date
01 VE CHANGES	07/31/24

Submittal	Date
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/12/2023
50% CD	10/06/2023
100% CD	11/03/2023
PERMIT REVISION 01	07/31/2024

Job Number	30548.02
Date Published	11/03/2023
Checked By	BN
Scale	3/4" = 1'-0"

TYPICAL MONUMENT DETAILS

S1.02

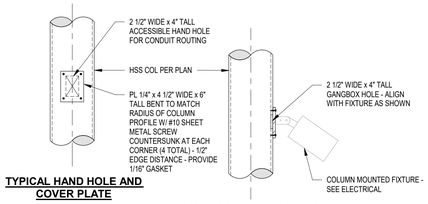
CITY OF RANCHO CUCAMONGA
BUILDING & SAFETY DEPARTMENT

APPROVED

By: RJ for Zack Neighbors Date: Aug 27, 2024

Note: All contractors and subcontractors are required to obtain approval from the Business License Division before scheduling a final inspection.

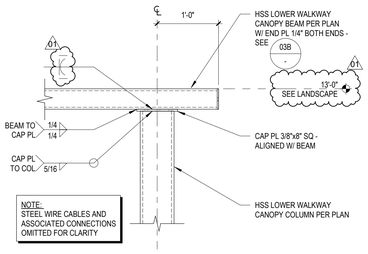
NOTES:
1. ELECTRICAL CONTRACTOR TO COORDINATE CONDUIT ROUTING AND ACCESS HOLE QUANTITY / LOCATIONS WITH STRUCTURAL STEEL CONTRACTOR
2. SEE 09/L5.06 FOR ADDITIONAL CLARIFICATION OF HAND HOLE AND FIXTURE PLACEMENT



TYPICAL HAND HOLE AND COVER PLATE

TYPICAL COLUMN MOUNTED FIXTURE AND COVER PLATE

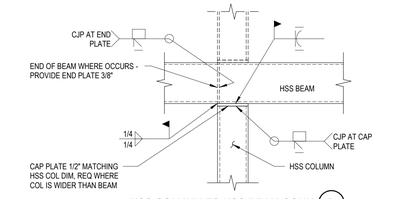
CONDUIT ROUTING AND ACCESS HOLE AT LIGHT FIXTURES MOUNTED TO EXT. COL. | N.T.S. | 12



NOTE:
STEEL WIRE CABLES AND ASSOCIATED CONNECTIONS OMITTED FOR CLARITY

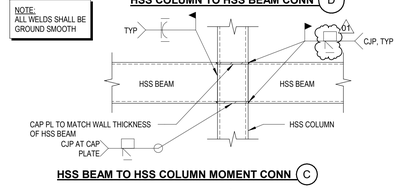
CONDITION AT WALKWAY CANOPY

TYPICAL CANOPY BEAM TO COLUMN CONN. (EXPOSED CONN.) | N.T.S. | 07

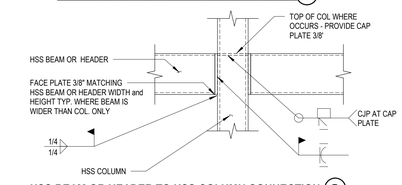


HSS COLUMN TO HSS BEAM CONN (D)

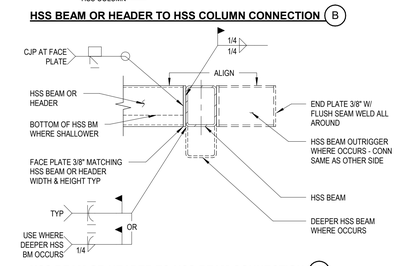
NOTE:
ALL WELDS SHALL BE GROUND SMOOTH



HSS BEAM TO HSS COLUMN MOMENT CONN (C)



HSS BEAM OR HEADER TO HSS COLUMN CONNECTION (B)

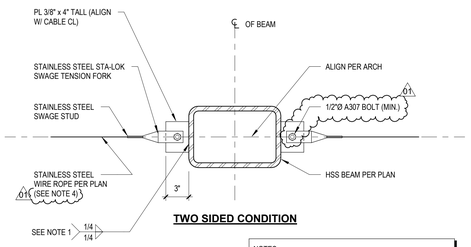


HSS BEAM OR HEADER TO HSS BEAM CONNECTION (A)

TYP HSS BM TO HSS BM and HSS COL CONN (EXPOSED CONN) | N.T.S. | 03

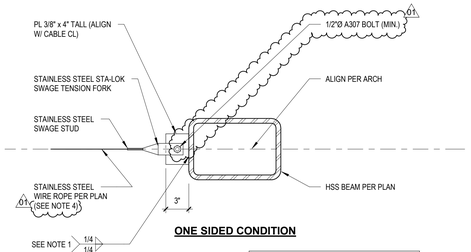
GENERAL NOTES AT STAINLESS STEEL WIRE

1. PROVIDE STAINLESS STEEL WIRE CABLE / ROPE CONFORMING TO ASTM A492 (7x19 STRAND) OF DIAMETER AS NOTED ON PLAN.
2. MINIMUM BREAKING STRENGTH AS FOLLOWS:
   1/4" DIA: (64000lb)
3. ALL STEEL WIRE HARDWARE (TENSION FORKS / STUDS) SHALL BE CAPABLE OF SUSTAINING A TENSION LOAD OF NO LESS THAN 50% OF THE MINIMUM BREAKING STRENGTH OF THE ANCHORED STEEL WIRE CABLE / ROPE.
4. STAINLESS STEEL WIRE CABLE / ROPES TO BE PRETENSION AS REQUIRED TO LIMIT CABLE DEFLECTION TO L/180 ONCE ALL KNOTWOOD PANELS HAVE BEEN SUSPENDED. PRETENSION NOT TO EXCEED VALUES AS SHOWN ON PLAN.
5. SEE NOTE 4 REGARDING PRETENSIONING OF STEEL WIRE CABLE / ROPE. CONTRACTOR IS TO SEQUENCE PRETENSIONING IN ORDER TO AVOID UNNECESSARY UNBALANCED LOADING ON SUPPORTING STRUCTURE. SUBMIT PROPOSED PRETENSIONING PROCEDURE IN SHOP DRAWINGS.



TWO SIDED CONDITION

NOTES:
1. NOTES and DIMENSIONS SYMMETRICAL ABOUT BEAM CENTERLINE.
2. FOR ADD'L INFORMATION SEE ONE SIDED CONDITION.

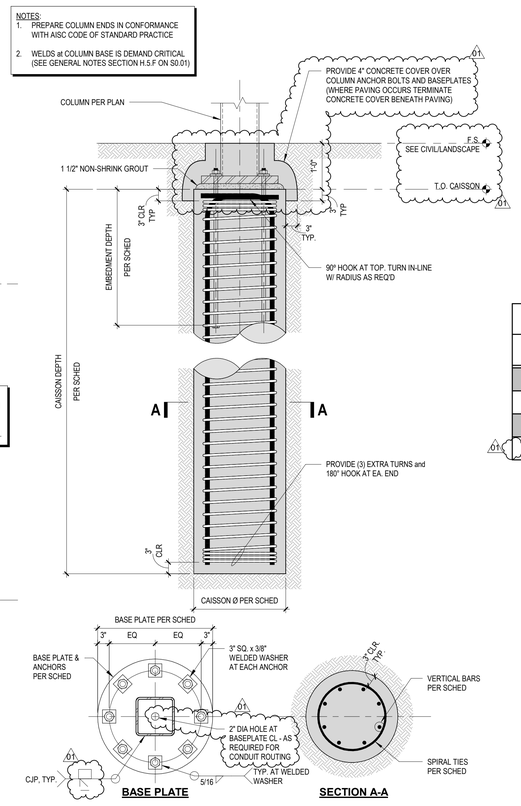


ONE SIDED CONDITION

NOTES:
1. WHERE PLATE IS SKEWED TO HSS BEAM CONTRACTORS OPTIONS AS FOLLOWS:
   A. CUT PLATE WITH BEVEL EDGE IN ORDER TO REDUCE ROOT GAP OPENING AT FACE OF HSS.
   B. INCREASE FILLET WELD SIZE ON ONE FACE IN ORDER TO ACCOUNT FOR ROOT GAP OPENING AT FACE OF HSS.

TYPICAL CANOPY STEEL WIRE CABLE CONNECTIONS | N.T.S. | 09

NOTES:
1. PREPARE COLUMN ENDS IN CONFORMANCE WITH AISC CODE OF STANDARD PRACTICE
2. WELDS at COLUMN BASE IS DEMAND CRITICAL (SEE GENERAL NOTES SECTION H.5.F ON S0.01)



BASE PLATE **SECTION A-A**

TYPICAL CANOPY CAISSON SCHEDULE

MARK	DIA.	DEPTH	VERTICAL BARS	SPIRAL TIES
F1A	24"	9'-6"	(8) #6	#4 SPIRAL @ 4" PITCH
F1B	24"	7'-0"	(8) #6	#4 SPIRAL @ 4" PITCH
F2A	24"	10'-6"	(8) #6	#4 SPIRAL @ 4" PITCH
F2B	24"	8'-0"	(8) #6	#4 SPIRAL @ 4" PITCH
F3A	24"	11'-0"	(8) #6	#4 SPIRAL @ 4" PITCH
F3B	24"	8'-6"	(8) #6	#4 SPIRAL @ 4" PITCH

TYPICAL CANOPY COLUMN BASEPLATE SCHEDULE

COLUMN SIZE	BASE PLATE		ANCHORS
	DIAMETER	THICKNESS	
HSS6X6X3/8	21"	1"	(8) 3/4" DIA F1554 - GR 55 x 36" EMBEDMENT
HSS6X6X1/2	21"	1 1/4"	(8) 7/8" DIA F1554 - GR 55 x 52" EMBEDMENT
HSS6X6X5/8	21"	1 1/4"	(8) 7/8" DIA F1554 - GR 55 x 52" EMBEDMENT

TYPICAL CANOPY CAISSON FOUNDATIONS | N.T.S. | 01

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue, Suite 100
Irvine, California 92617

AMG & ASSOCIATESS
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

REGISTERED PROFESSIONAL ENGINEER BRYAN G. SEAMER No. 54899 CIVIL STATE OF CALIFORNIA

This document and all other project documents, ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are copyright protected, are the property of LPA, Inc. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as set forth in the contractual agreement between LPA and its Client. The unauthorized disclosure and/or use of the project documents (including the creation of derivative works), may give rise to liability for copyright infringement, unlawful disclosure, use or misappropriation of property rights held by LPA. The unauthorized use of the project documents will give rise to the recovery of monetary losses and damages including attorney fees and costs for which the unauthorized user will be held liable.
Project documents describe the design intent of the work and are not a representation of as-built or existing conditions. LPA is not responsible for any discrepancies between the project documents and the existing conditions.

© LPA, Inc.

MEMORIAL PARK
10597 TOWN CENTER DRIVE,
RANCHO CUCAMONGA, CA 91730
Developed for
CITY OF RANCHO CUCAMONGA

Revision	Date
01 VE CHANGES	07/31/24

Submittal	Date
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/12/2023
50% CD	10/06/2023
100% CD	11/02/2023
PERMIT REVISION 01	07/31/2024

Job Number	30548.02
Date Published	11/03/2023
Checked By	BN
Scale	As indicated

TYPICAL CANOPY DETAILS

S1.03

CITY OF RANCHO CUCAMONGA
BUILDING & SAFETY DEPARTMENT
APPROVED
By: RJ for Zack Neighbors Date: Aug 27, 2024
Note: All contractors and subcontractors are required to obtain approval from the Business License Division before scheduling a final inspection.

PROJECT NORTH

WALKWAY CANOPY AND SITE FOUNDATION PLAN | 1" = 20'-0" | 05

FOUNDATION PLAN NOTES

1. FOR GENERAL NOTES SEE S0.01 and TYPICAL DETAILS SEE S6 SERIES SHEETS.
2. SEE ARCHITECTURAL DRAWINGS FOR TOP OF CONCRETE SLAB ON GRADE ELEVATIONS, DEPRESSIONS, SLOPES, OPENINGS, DRAINS, TRENCHES, PADS, and CURBS; SLAB EDGE LOCATIONS; WALL OVERALL DIMENSIONS; and LOCATIONS OF OPENINGS NOT INDICATED ON STRUCTURAL DRAWINGS.
3. NOT USED 01
4. CENTER COLUMNS ON GRID INTERSECTIONS LINES OR WALLS UNLESS INDICATED OTHERWISE. CENTER SPREAD FOOTINGS and CONTINUOUS FOOTINGS ON COLUMNS OR WALLS UNLESS INDICATED OTHERWISE.
5. IN NO CASE SHALL PIPES, CONDUITS, OR SLEEVES BE EMBEDDED IN SPREAD FOOTINGS OR WITHIN TOP OR BOTTOM THIRD OF CONTINUOUS FOOTINGS UNLESS SPECIFICALLY DETAILED ON STRUCTURAL DRAWINGS.
6. NOT USED 01
7. LOCATE TOP OF FOOTINGS -0'-8" BELOW LOWEST ADJACENT SLAB ON GRADE ELEVATION U.N.O.
8. SOIL COMPACTION REPORT SHALL BE PROVIDED TO THE BUILDING INSPECTOR AT THE JOB SITE PRIOR TO PLACEMENT OF CONCRETE FOR THE FOUNDATION.
9. SOIL ENGINEER SHALL OBSERVE AND REVIEW FOUNDATION EXCAVATION PRIOR TO PLACEMENT OF REINFORCING STEEL OR CONCRETE FOR THE FOUNDATION. GEOTECHNICAL OBSERVATION REPORT SHALL BE PROVIDED TO THE BUILDING INSPECTOR AT FOUNDATION INSPECTION.

FOUNDATION LEGEND

- HSS6X6X1/2 — INDICATES NON-FRAME COLUMN ABOVE FOR BASE PLATE INFO SEE 01/S1.03.
- FX — INDICATES FOOTING MARK - SEE SCHEDULE THIS SHEET and 01/S1.03
- XX.XX' — INDICATES TOP OF FOOTING ELEVATION - IF NO ELEVATION INDICATED, LOCATE TOP OF FOOTING PER NOTE 7

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue,
Suite 100
Irvine, California 92617

AMG & ASSOCIATESS
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

REGISTERED PROFESSIONAL ENGINEER
BRYAN G. SEAMER
No. 54899
CIVIL
STATE OF CALIFORNIA

This document and all other project documents, ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are copyright protected, are the property of LPA, Inc. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as set forth in the contractual agreement between LPA and its Client. The unauthorized disclosure and/or use of the project documents (including the creation of derivative works), may give rise to liability for copyright infringement, unlawful disclosure, use or misappropriation of property rights held by LPA. The unauthorized use of the project documents will give rise to the recovery of monetary losses and damages including attorney fees and costs for which the unauthorized user will be held liable.
Project documents describe the design intent of the work and are not a representation of as-built or existing conditions. LPA is not responsible for any discrepancies between the project documents and the existing conditions.

© LPA, Inc.

MEMORIAL PARK
10597 TOWN CENTER DRIVE,
RANCHO CUCAMONGA, CA 91730
Developed for
CITY OF RANCHO CUCAMONGA

Revision	Date
01 VE CHANGES	07/31/24

Submittal	Date
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/12/2023
50% CD	10/06/2023
100% CD	11/03/2023
PERMIT REVISION 01	07/31/2024

Job Number	30548.02
Date Published	11/03/2023
Checked By	BN
Scale	

WALKWAY CANOPY AND SITE STRUCTURAL FOUNDATION PLAN

S2.01

CITY OF RANCHO CUCAMONGA
BUILDING & SAFETY DEPARTMENT

APPROVED

By: RJ for Zack Neighbors Date: Jan 24, 2024

Note: All contractors and subcontractors are required to obtain approval from the Business License Division before scheduling a final inspection.

PROJECT NORTH

WALKWAY CANOPY AND SITE FOUNDATION PLAN | 1" = 20'-0" | 05

FOUNDATION PLAN NOTES

1. FOR GENERAL NOTES SEE S0.01 and TYPICAL DETAILS SEE S6 SERIES SHEETS.
2. SEE ARCHITECTURAL DRAWINGS FOR TOP OF CONCRETE SLAB ON GRADE ELEVATIONS, DEPRESSIONS, SLOPES, OPENINGS, DRAINS, TRENCHES, PADS, and CURBS; SLAB EDGE LOCATIONS; WALL OVERALL DIMENSIONS; and LOCATIONS OF OPENINGS NOT INDICATED ON STRUCTURAL DRAWINGS.
3. BUILDING SLAB-ON-GRADE: NOT USED.
4. CENTER COLUMNS ON GRID INTERSECTIONS LINES OR WALLS UNLESS INDICATED OTHERWISE. CENTER SPREAD FOOTINGS and CONTINUOUS FOOTINGS ON COLUMNS OR WALLS UNLESS INDICATED OTHERWISE.
5. IN NO CASE SHALL PIPES, CONDUITS, OR SLEEVES BE EMBEDDED IN SPREAD FOOTINGS OR WITHIN TOP OR BOTTOM THIRD OF CONTINUOUS FOOTINGS UNLESS SPECIFICALLY DETAILED ON STRUCTURAL DRAWINGS.
6. FOOTING INTERSECTIONS: NOT USED
7. LOCATE TOP OF FOOTINGS -0'-8" BELOW LOWEST ADJACENT SLAB ON GRADE ELEVATION U.N.O.
8. SOIL COMPACTION REPORT SHALL BE PROVIDED TO THE BUILDING INSPECTOR AT THE JOB SITE PRIOR TO PLACEMENT OF CONCRETE FOR THE FOUNDATION.
9. SOIL ENGINEER SHALL OBSERVE AND REVIEW FOUNDATION EXCAVATION PRIOR TO PLACEMENT OF REINFORCING STEEL OR CONCRETE FOR THE FOUNDATION. GEOTECHNICAL OBSERVATION REPORT SHALL BE PROVIDED TO THE BUILDING INSPECTOR AT FOUNDATION INSPECTION.

FOUNDATION LEGEND

HSS(XXXX) — INDICATES NON-FRAME COLUMN ABOVE FOR BASE PLATE INFO SEE 01/S1.03.

FX — INDICATES FOOTING MARK - SEE SCHEDULE THIS SHEET and 01/S1.03

FX XX.XX' — INDICATES TOP OF FOOTING ELEVATION - IF NO ELEVATION INDICATED, LOCATE TOP OF FOOTING PER NOTE 7

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.

ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING

949-261-1001 Office

949-260-1190 Fax

LPADesignStudios.com

5301 California Avenue,
Suite 100
Irvine, California 92617

AMG & ASSOCIATESS

661-251-7401 Office

AMGAssociates.com

26535 Summit Circle
Santa Clarita, CA 91350

REGISTERED PROFESSIONAL ENGINEER
BRYAN G. SEAMER
No. S8809
CIVIL
STATE OF CALIFORNIA

This document and all other project documents, ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are copyright protected, are the property of LPA, Inc. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as set forth in the contractual agreement between LPA and its Client. The unauthorized disclosure and/or use of the project documents (including the creation of derivative works), may give rise to liability for copyright infringement, unlawful disclosure, use or misappropriation of property rights held by LPA. The unauthorized use of the project documents will give rise to the recovery of monetary losses and damages including attorney fees and costs for which the unauthorized user will be held liable.
Project documents describe the design intent of the work and are not a representation of as-built or existing conditions. LPA is not responsible for any discrepancies between the project documents and the existing conditions.

© LPA, Inc.

MEMORIAL PARK

10597 TOWN CENTER DRIVE,
RANCHO CUCAMONGA, CA 91730

Developed for
CITY OF RANCHO CUCAMONGA

Revision	Date

Submittal	Date
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/12/2023
50% CD	10/06/2023
100% CD	11/03/2023

Job Number	30548.02
Date Published	11/03/2023
Checked By	BN
Scale	

WALKWAY CANOPY AND SITE STRUCTURAL FOUNDATION PLAN

S2.01A

CITY OF RANCHO CUCAMONGA
BUILDING & SAFETY DEPARTMENT

APPROVED

By: RJ for Zack Neighbors Date: Jan 24, 2024

Note: All contractors and subcontractors are required to obtain approval from the Business License Division before scheduling a final inspection.

City of Rancho Cucamonga
Planning Department

APPROVED

Tabe Vanderzwaag
Jan 8, 2024

Please contact the Planning Department at (909) 477-2750 for Final Planning Inspection

PROJECT NORTH

CENTRAL CANOPY FOUNDATION PLAN 1" = 20'-0" 05

FOUNDATION PLAN NOTES

1. FOR GENERAL NOTES SEE S0.01 and TYPICAL DETAILS SEE S6 SERIES SHEETS.
2. SEE ARCHITECTURAL DRAWINGS FOR TOP OF CONCRETE SLAB ON GRADE ELEVATIONS, DEPRESSIONS, SLOPES, OPENINGS, DRAINS, TRENCHES, PADS, and CURBS; SLAB EDGE LOCATIONS; WALL OVERALL DIMENSIONS; and LOCATIONS OF OPENINGS NOT INDICATED ON STRUCTURAL DRAWINGS.
3. BUILDING SLAB-ON-GRADE: NOT USED.
4. CENTER COLUMNS ON GRID INTERSECTIONS LINES OR WALLS UNLESS INDICATED OTHERWISE. CENTER SPREAD FOOTINGS and CONTINUOUS FOOTINGS ON COLUMNS OR WALLS UNLESS INDICATED OTHERWISE.
5. IN NO CASE SHALL PIPES, CONDUITS, OR SLEEVES BE EMBEDDED IN SPREAD FOOTINGS OR WITHIN TOP OR BOTTOM THIRD OF CONTINUOUS FOOTINGS UNLESS SPECIFICALLY DETAILED ON STRUCTURAL DRAWINGS.
6. FOOTING INTERSECTIONS: NOT USED
7. LOCATE TOP OF FOOTINGS -0'-8" BELOW LOWEST ADJACENT SLAB ON GRADE ELEVATION U.N.O.
8. SOIL COMPACTION REPORT SHALL BE PROVIDED TO THE BUILDING INSPECTOR AT THE JOB SITE PRIOR TO PLACEMENT OF CONCRETE FOR THE FOUNDATION.
9. SOIL ENGINEER SHALL OBSERVE AND REVIEW FOUNDATION EXCAVATION PRIOR TO PLACEMENT OF REINFORCING STEEL OR CONCRETE FOR THE FOUNDATION. GEOTECHNICAL OBSERVATION REPORT SHALL BE PROVIDED TO THE BUILDING INSPECTOR AT FOUNDATION INSPECTION.

FOUNDATION LEGEND

HSS(XXXX)	INDICATES NON-FRAME COLUMN ABOVE FOR BASE PLATE INFO SEE 01/S1.03.
FX	INDICATES FOOTING MARK - SEE SCHEDULE THIS SHEET and 01/S1.03
XX.XX'	INDICATES TOP OF FOOTING ELEVATION - IF NO ELEVATION INDICATED, LOCATE TOP OF FOOTING PER NOTE 7

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue,
Suite 100
Irvine, California 92617

AMG & ASSOCIATESS
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

REGISTERED PROFESSIONAL ENGINEER
BRYAN G. SEAMER
No. 58809
CIVIL
STATE OF CALIFORNIA

This document and all other project documents, ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are copyright protected, are the property of LPA, Inc. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as set forth in the contractual agreement between LPA and its Client. The unauthorized disclosure and/or use of the project documents (including the creation of derivative works), may give rise to liability for copyright infringement, unlawful disclosure, use or misappropriation of property rights held by LPA. The unauthorized use of the project documents will give rise to the recovery of monetary losses and damages including attorney fees and costs for which the unauthorized user will be held liable.
Project documents describe the design intent of the work and are not a representation of as-built or existing conditions. LPA is not responsible for any discrepancies between the project documents and the existing conditions.

© LPA, Inc.

MEMORIAL PARK

10597 TOWN CENTER DRIVE,
RANCHO CUCAMONGA, CA 91730

Developed for
CITY OF RANCHO CUCAMONGA

Revision	Date

Submittal	Date
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/12/2023
50% CD	10/06/2023
100% CD	11/03/2023

Job Number	30548.02
Date Published	11/03/2023
Checked By	BN
Scale	

CENTRAL CANOPY FOUNDATION PLAN

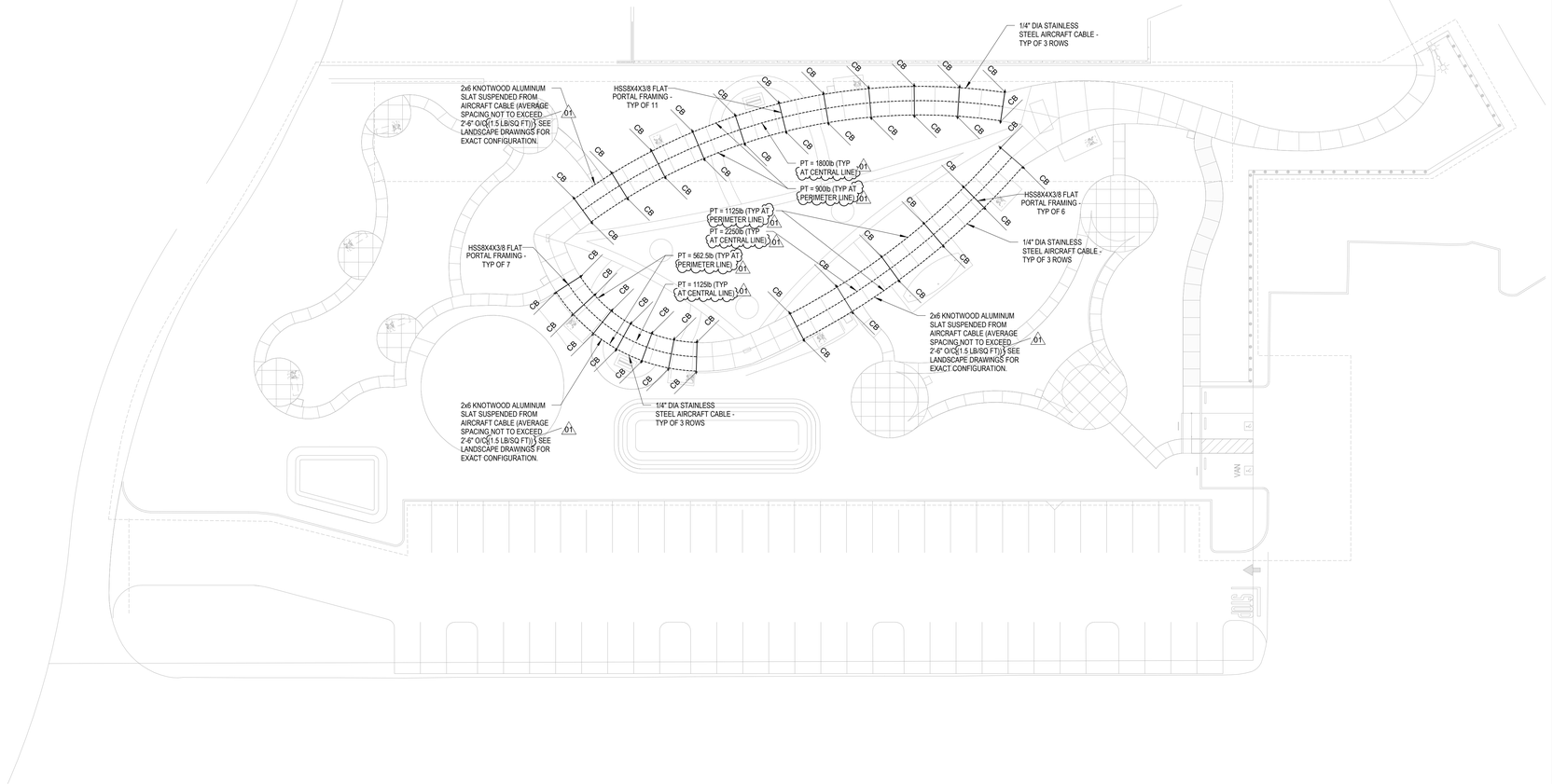
S2.01B

CITY OF RANCHO CUCAMONGA
BUILDING & SAFETY DEPARTMENT

APPROVED

By: RJ for Zack Neighbors Date: Aug 27, 2024

Note: All contractors and subcontractors are required to obtain approval from the Business License Division before scheduling a final inspection.



PROJECT NORTH

SITE CANOPY FRAMING PLAN 1" = 20'-0" 05

CANOPY ROOF FRAMING PLAN NOTES

1. FOR GENERAL NOTES SEE S0.01 and TYPICAL DETAILS SEE S6 SERIES SHEETS.
2. SEE EDGE OF SLAB PLANS FOR TOP OF STRUCTURAL CONCRETE SLAB ELEVATIONS, DEPRESSIONS, SLOPES, CURBS, PADS, and DECK EDGE LOCATIONS. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, and PLUMBING DRAWINGS FOR RECESSED FIXTURES; WALL OVERALL DIMENSIONS; and LOCATIONS OF OPENINGS IN WALLS and SLABS NOT INDICATED ON STRUCTURAL DRAWINGS OR EDGE OF SLAB PLANS.
3. CENTER COLUMNS AT GRID INTERSECTIONS OR WALLS UNLESS INDICATED OTHERWISE.
4. BEAMS ARE SPACED EQUALLY BETWEEN COLUMNS AND GIRDERS UNLESS INDICATED OTHERWISE.
5. NO PENETRATION IN STRUCTURAL STEEL OR METAL STUD FRAMING IS PERMITTED UNLESS SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS.

CANOPY ROOF LEGEND

H D — INDICATES FRAME OR NON-FRAME COLUMN - SEE FOUNDATION PLAN FOR COLUMN SIZE

CB / CB — INDICATES COLUMN BELOW - SEE FOUNDATION PLAN FOR COLUMN SIZE

HSSXxXX — INDICATES NON-FRAME STEEL BEAM - SEE 07/S1.03 FOR TYPICAL CONNECTIONS

<X"> — INDICATES UPWARD CAMBER (IN INCHES) AT MIDSPAN OF BEAM (IF BEAM CANTILEVERS, HOLD CANTILEVERED PORTION LEVEL) - IF NO CAMBER INDICATED, NO CAMBER REQUIRED

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue,
Suite 100
Irvine, California 92617

AMG & ASSOCIATESS
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

REGISTERED PROFESSIONAL ENGINEER
BRYAN G. SEAMER
No. 54899
CIVIL
STATE OF CALIFORNIA

This document and all other project documents, ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are copyright protected, are the property of LPA, Inc. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as set forth in the contractual agreement between LPA and its Client. The unauthorized disclosure and/or use of the project documents (including the creation of derivative works), may give rise to liability for copyright infringement, unlawful disclosure, use or misappropriation of property rights held by LPA. The unauthorized use of the project documents will give rise to the recovery of monetary losses and damages including attorney fees and costs for which the unauthorized user will be held liable.
Project documents describe the design intent of the work and are not a representation of as-built or existing conditions. LPA is not responsible for any discrepancies between the project documents and the existing conditions.

© LPA, Inc.

MEMORIAL PARK

10597 TOWN CENTER DRIVE,
RANCHO CUCAMONGA, CA 91730

Developed for
CITY OF RANCHO CUCAMONGA

Revision	Date
01 VE CHANGES	07/31/24

Submittal	Date
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/12/2023
50% CD	10/06/2023
100% CD	11/03/2023
PERMIT REVISION 01	07/31/2024

Job Number	30548.02
Date Published	11/03/2023
Checked By	BN
Scale	

STRUCTURAL SITE CANOPY FRAMING PLAN

S2.02

CITY OF RANCHO CUCAMONGA
BUILDING & SAFETY DEPARTMENT

APPROVED

By: RJ for Zack Neighbors Date: Jan 24, 2024

Note: All contractors and subcontractors are required to obtain approval from the Business License Division before scheduling a final inspection.

PROJECT NORTH

SITE CANOPY FRAMING PLAN | 1" = 20'-0" | 05

CANOPY ROOF FRAMING PLAN NOTES

1. FOR GENERAL NOTES SEE S0.01 and TYPICAL DETAILS SEE S6 SERIES SHEETS.
2. SEE EDGE OF SLAB PLANS FOR TOP OF STRUCTURAL CONCRETE SLAB ELEVATIONS, DEPRESSIONS, SLOPES, CURBS, PADS, and DECK EDGE LOCATIONS. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL and PLUMBING DRAWINGS FOR RECESSED FIXTURES; WALL OVERALL DIMENSIONS; and LOCATIONS OF OPENINGS IN WALLS and SLABS NOT INDICATED ON STRUCTURAL DRAWINGS OR EDGE OF SLAB PLANS.
3. CENTER COLUMNS AT GRID INTERSECTIONS OR WALLS UNLESS INDICATED OTHERWISE.
4. BEAMS ARE SPACED EQUALLY BETWEEN COLUMNS AND GIRDERS UNLESS INDICATED OTHERWISE.
5. NOT USED
6. NOT USED.
7. NOT USED.
8. NO PENETRATION IN STRUCTURAL STEEL OR METAL STUD FRAMING IS PERMITTED UNLESS SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS.
9. NOT USED
10. NOT USED
11. NOT USED
12. NOT USED
13. NOT USED
14. NOT USED
15. NOT USED
16. NOT USED

CANOPY ROOF LEGEND

H D — INDICATES FRAME OR NON-FRAME COLUMN - SEE FOUNDATION PLAN FOR COLUMN SIZE

CB CB — INDICATES COLUMN BELOW - SEE FOUNDATION PLAN FOR COLUMN SIZE

HSSXxXX — INDICATES NON-FRAME STEEL BEAM - SEE 07/S1.03 FOR TYPICAL CONNECTIONS

<X"> — INDICATES UPWARD CAMBER (IN INCHES) AT MIDSPAN OF BEAM (IF BEAM CANTILEVERS, HOLD CANTILEVERED PORTION LEVEL) - IF NO CAMBER INDICATED, NO CAMBER REQUIRED

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue,
Suite 100
Irvine, California 92617

AMG & ASSOCIATESS
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

REGISTERED PROFESSIONAL ENGINEER
BRYAN G. SEAMER
No. S4809
STRUCTURAL
OF CALIFORNIA

This document and all other project documents, ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are copyright protected, are the property of LPA, Inc. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as set forth in the contractual agreement between LPA and its Client. The unauthorized disclosure and/or use of the project documents (including the creation of derivative works), may give rise to liability for copyright infringement, unlawful disclosure, use or misappropriation of property rights held by LPA. The unauthorized use of the project documents will give rise to the recovery of monetary losses and damages including attorney fees and costs for which the unauthorized user will be held liable.
Project documents describe the design intent of the work and are not a representation of as-built or existing conditions. LPA is not responsible for any discrepancies between the project documents and the existing conditions.

© LPA, Inc.

MEMORIAL PARK
10597 TOWN CENTER DRIVE,
RANCHO CUCAMONGA, CA 91730
Developed for
CITY OF RANCHO CUCAMONGA

Revision	Date

Submittal	Date
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/12/2023
50% CD	10/06/2023
100% CD	11/03/2023

Job Number	30548.02
Date Published	11/03/2023
Checked By	BN
Scale	

STRUCTURAL SITE CANOPY FRAMING PLAN

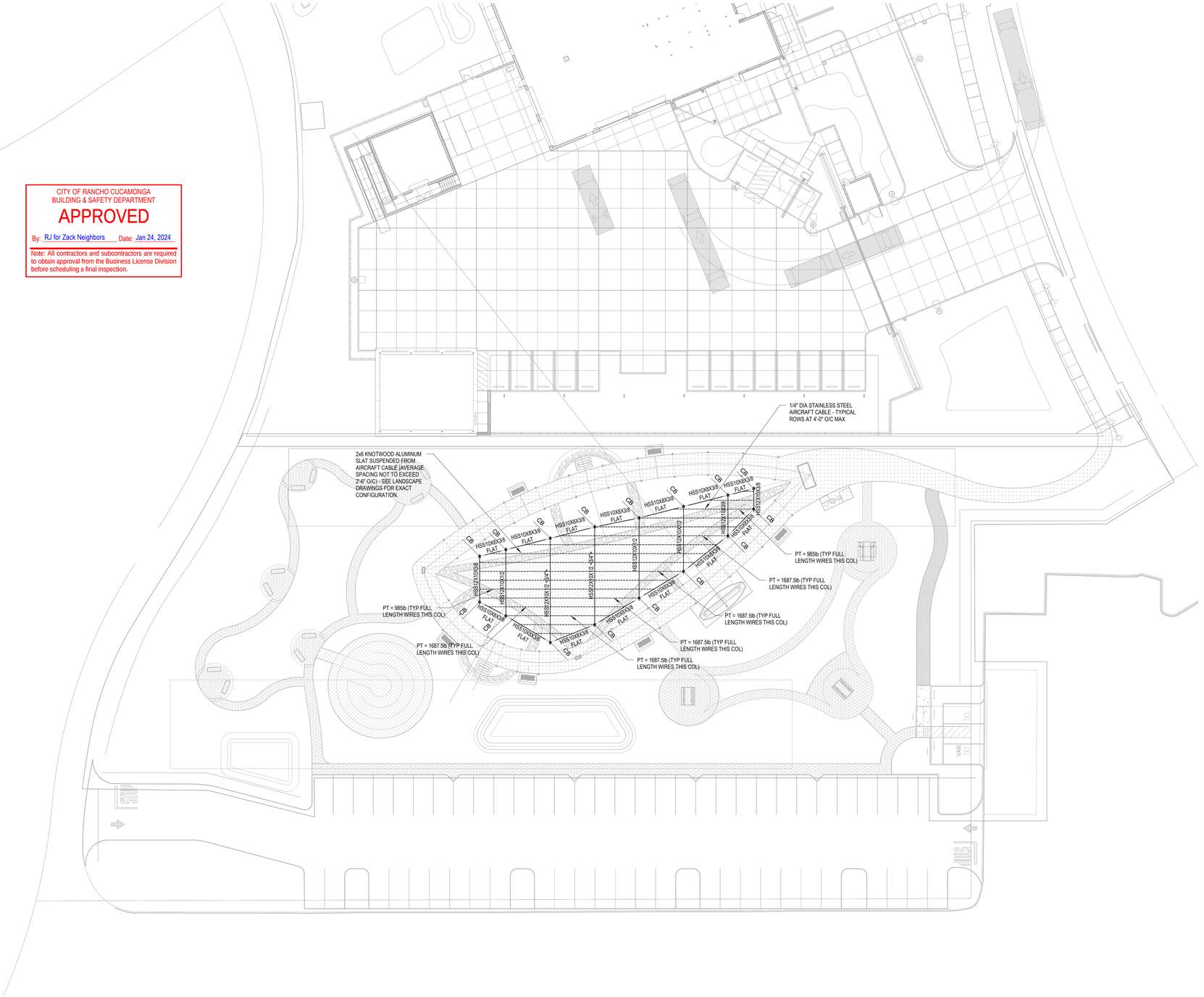
S2.02A

CITY OF RANCHO CUCAMONGA
BUILDING & SAFETY DEPARTMENT

APPROVED

By: RJ for Zack Neighbors Date: Jan 24, 2024

Note: All contractors and subcontractors are required to obtain approval from the Business License Division before scheduling a final inspection.



PROJECT NORTH

CENTRAL CANOPY FRAMING PLAN | 1" = 20'-0" | 05

CANOPY ROOF FRAMING PLAN NOTES

1. FOR GENERAL NOTES SEE S0.01 and TYPICAL DETAILS SEE S6 SERIES SHEETS.
2. SEE EDGE OF SLAB PLANS FOR TOP OF STRUCTURAL CONCRETE SLAB ELEVATIONS, DEPRESSIONS, SLOPES, CURBS, PADS, and DECK EDGE LOCATIONS. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, and PLUMBING DRAWINGS FOR RECESSED FIXTURES; WALL OVERALL DIMENSIONS; and LOCATIONS OF OPENINGS IN WALLS and SLABS NOT INDICATED ON STRUCTURAL DRAWINGS OR EDGE OF SLAB PLANS.
3. CENTER COLUMNS AT GRID INTERSECTIONS OR WALLS UNLESS INDICATED OTHERWISE.
4. BEAMS ARE SPACED EQUALLY BETWEEN COLUMNS AND GIRDERS UNLESS INDICATED OTHERWISE.
5. NOT USED
6. NOT USED.
7. NOT USED.
8. NO PENETRATION IN STRUCTURAL STEEL OR METAL STUD FRAMING IS PERMITTED UNLESS SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS.
9. NOT USED
10. NOT USED
11. NOT USED
12. NOT USED
13. NOT USED
14. NOT USED
15. NOT USED
16. NOT USED

CANOPY ROOF LEGEND

- H / D — INDICATES FRAME OR NON-FRAME COLUMN - SEE FOUNDATION PLAN FOR COLUMN SIZE
- H / CB / D / CB — INDICATES COLUMN BELOW - SEE FOUNDATION PLAN FOR COLUMN SIZE
- HSSXxXX <X"> — INDICATES NON-FRAME STEEL BEAM - SEE 07/S1.03 FOR TYPICAL CONNECTIONS; INDICATES UPWARD CAMBER (IN INCHES) AT MIDSPAN OF BEAM (IF BEAM CANTILEVERS, HOLD CANTILEVERED PORTION LEVEL) - IF NO CAMBER INDICATED, NO CAMBER REQUIRED

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue,
Suite 100
Irvine, California 92617

AMG & ASSOCIATESS
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

REGISTERED PROFESSIONAL ENGINEER
BRYAN G. SEAMER
No. S4809
STRUCTURAL
OF CALIFORNIA

This document and all other project documents, ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are copyright protected, are the property of LPA, Inc. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as set forth in the contractual agreement between LPA and its Client. The unauthorized disclosure and/or use of the project documents (including the creation of derivative works), may give rise to liability for copyright infringement, unlawful disclosure, use or misappropriation of property rights held by LPA. The unauthorized use of the project documents will give rise to the recovery of monetary losses and damages including attorney fees and costs for which the unauthorized user will be held liable.
Project documents describe the design intent of the work and are not a representation of as-built or existing conditions. LPA is not responsible for any discrepancies between the project documents and the existing conditions.

© LPA, Inc.

MEMORIAL PARK
10597 TOWN CENTER DRIVE,
RANCHO CUCAMONGA, CA 91730
Developed for
CITY OF RANCHO CUCAMONGA

Revision	Date

Submittal	Date
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/12/2023
50% CD	10/06/2023
100% CD	11/03/2023

Job Number	30548.02
Date Published	11/03/2023
Checked By	BN
Scale	

CENTRAL CANOPY STRUCTURAL FRAMING PLAN

S2.02B

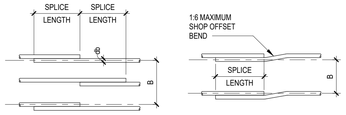


DIAGRAM at STAGGERED SPLICES

DIAGRAM at NON-STAGGERED SPLICES

NOTES:

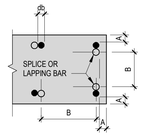
1. ALL SPLICES SHALL BE CLASS B SPLICES UNLESS INDICATED OTHERWISE. DEVELOPMENT Ld TO BE USED WHERE SPECIFICALLY INDICATED.
2. SCHEDULE APPLIES TO UNCOATED GRADE 60 BARS IN NORMAL WEIGHT CONCRETE.
3. TOP BARS (INDICATED "T" IN SCHEDULE) ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.
4. BOTTOM BARS (INDICATED "B" IN SCHEDULE) ARE ALL VERTICAL BARS AND HORIZONTAL BARS WITH LESS THAN 12" OF CONCRETE CAST BELOW HORIZONTAL BARS.
5. FOR LIGHTWEIGHT CONCRETE MULTIPLY LENGTHS IN SCHEDULE BY 1.33.
6. AT SPLICE BETWEEN BARS OF VARYING SIZE, PROVIDE LAP SPLICE CORRESPONDING TO LARGER OF "Ls" OF SMALLER BAR and "Ld" OF LARGER BAR.

"CLASS B" TENSION LAP SPLICE "Ls" SCHEDULE

CATEGORY	NORMAL WEIGHT CONCRETE f'c PSI	SPLICE LENGTH (INCHES)															
		0.375		0.500		0.625		0.750		0.875		1.000		1.128		1.270		1.410	
		#3		#4		#5		#6		#7		#8		#9		#10		#11	
		T	B	T	B	T	B	T	B	T	B	T	B	T	B	T	B	T	B
I	3000	28	23	38	29	47	37	56	43	82	63	94	72	106	81	117	90	128	99
	4000	25	20	33	25	41	32	49	38	71	55	81	63	91	71	102	78	111	86
	5000	22	17	29	23	38	29	44	34	63	49	71	55	82	63	92	71	102	78
II	3000	43	34	58	43	71	55	85	65	124	94	141	108	159	121	176	136	192	149
	4000	38	30	50	38	62	47	73	58	106	82	121	94	137	106	153	117	167	129
	5000	33	26	45	34	55	42	65	51	95	73	110	84	123	95	138	107	154	119

DEVELOPMENT "Ld" SCHEDULE

CATEGORY	NORMAL WEIGHT CONCRETE f'c PSI	DEVELOPMENT LENGTH (INCHES)															
		0.375		0.500		0.625		0.750		0.875		1.000		1.128		1.270		1.410	
		#3		#4		#5		#6		#7		#8		#9		#10		#11	
		T	B	T	B	T	B	T	B	T	B	T	B	T	B	T	B	T	B
I	3000	22	17	29	22	36	28	43	33	63	48	72	55	81	62	90	69	98	76
	4000	19	15	25	19	31	24	37	29	54	42	62	48	70	54	78	60	85	66
	5000	17	13	23	17	28	22	34	26	48	37	55	42	62	48	70	54	77	60
II	3000	33	26	44	33	54	42	65	50	95	72	108	83	122	93	135	104	147	114
	4000	29	23	38	29	47	36	56	44	81	63	93	72	105	81	117	90	128	99
	5000	25	20	34	26	42	32	50	39	73	56	84	64	94	73	106	82	118	91



BAR SPACING DIAGRAM

LEGEND

A - CLEAR EDGE DISTANCE

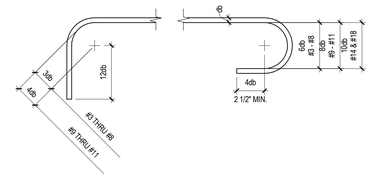
B - CENTER TO CENTER SPACING OF SPLICED OR LAPPED BARS (SEE GENERAL NOTES FOR MINIMUM CLEAR SPACING)

db - BAR DIAMETER

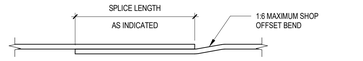
SCHEDULE FOR DETERMINING CATEGORY

I	II
1. A>db and B>2db and 2. A>db and B>3db and TIES THRUOUT Ld	OTHER CASES

TYPICAL REBAR TENSION SPLICE and BAR DEVELOPMENT SCHEDULE (IN CONCRETE) N.T.S. 04



STANDARD HOOKS OTHER THAN STIRRUPS AND TIES

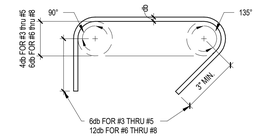


MAXIMUM OFFSET AT SPLICES

BAR DIAMETER DISTANCES

BAR DIAMETERS	BAR SIZE								
	#3	#4	#5	#6	#7	#8	#9	#10	#11
3db	1 1/8"	1 1/2"	1 7/8"	2 1/4"	2 5/8"	3"	-	-	-
4db	1 1/2"*	2"*	2 1/2"	3"	3 1/2"	4"	4 1/2"	5"	5 1/2"
6db	2 1/4"*	3"	3 3/4"	4 1/2"	5 1/4"	6"	-	-	-
8db	-	-	-	-	-	-	9"	10"	11"
12db	4 1/2"	6"	7 1/2"	9"	10 1/2"	12"	13 1/2"	15"	16 1/2"

* INDICATES MINIMUM DIMENSIONS MAY GOVERN



NOTE:
HOOKS OF TWO SUCCESSIVE STIRRUPS OR TIES ENGAGING SAME LONGITUDINAL BAR SHALL BE ALTERNATED END FOR END

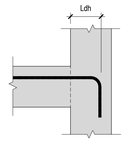
STANDARD HOOKS FOR STIRRUPS AND TIES

TYPICAL REINFORCING STEEL HOOKS, BENDS and OFFSETS AT SPLICES N.T.S. 03

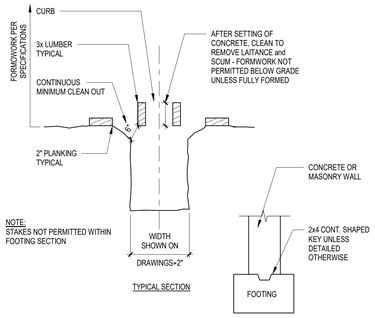
HOOKED BAR DEVELOPMENT LENGTH (Ldh) SCHEDULE

BAR SIZE	Fc' = 3000psi	Fc' = 4000psi	Fc' = 5000psi
#3	9"	8"	7"
#4	11"	10"	9"
#5	14"	12"	11"
#6	17"	15"	13"
#7	20"	17"	15"
#8	22"	19"	17"
#9	25"	22"	20"
#10	28"	25"	22"
#11	31"	27"	24"

NOTE:
1. FOR LIGHT WEIGHT CONCRETE MULTIPLY THE SPECIFIED DEVELOPMENT LENGTH BY 1.3



HOOKED BAR DEVELOPMENT LENGTH SCHEDULE N.T.S. 06

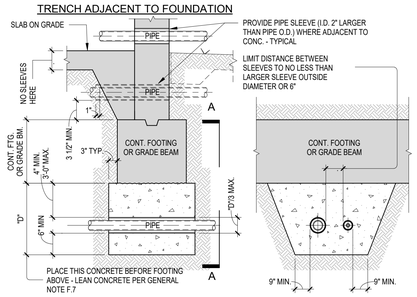


STARTER WALL DETAIL (A)

TYPICAL MANDATORY FOUNDATION FORWORK (UNLESS FULLY FORMED) N.T.S. 05

NOTES:
1. DO NOT PLACE SLEEVES OR CONDUIT IN ISOLATED SPREAD FOOTINGS - RUN AROUND OR BELOW THESE FOOTINGS.
2. SLEEVES ARE NOT TO PASS THROUGH CONTINUOUS FOOTINGS OR GRADE BEAMS UNLESS SHOWN OTHERWISE - WHERE SLEEVES ARE PERMITTED, LOCATE WITHIN MIDDLE THIRD OF FOOTING OR GRADE BEAM DEPTH. SEE DETAIL 4/S6.12.

TRENCH ADJACENT TO FOUNDATION



PIPES THRU OR BELOW FOUNDATION ELEVATION A-A

TYP. PIPES THRU OR TRENCHES ADJACENT TO FOUNDATIONS N.T.S. 01

CITY OF RANCHO CUCAMONGA
BUILDING & SAFETY DEPARTMENT
APPROVED
By: RJ for Zack Neighbors Date: Jan 24, 2024
Note: All contractors and subcontractors are required to obtain approval from the Business License Division before scheduling a final inspection.

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue, Suite 100
Irvine, California 92617

AMG & ASSOCIATESS
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

BRYAN G. SEAMER No. S4889 REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

This document and all other project documents, ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are copyright protected, are the property of LPA, Inc. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as set forth in the contractual agreement between LPA and its Client. The unauthorized disclosure and/or use of the project documents (including the creation of derivative works), may give rise to liability for copyright infringement, unlawful disclosure, use or misappropriation of property rights held by LPA. The unauthorized use of the project documents will give rise to the recovery of monetary losses and damages including attorney fees and costs for which the unauthorized user will be held liable.
Project documents describe the design intent of the work and are not a representation of as-built or existing conditions. LPA is not responsible for any discrepancies between the project documents and the existing conditions.

© LPA, Inc.

MEMORIAL PARK
10597 TOWN CENTER DRIVE, RANCHO CUCAMONGA, CA 91730
Developed for CITY OF RANCHO CUCAMONGA

Revision	Date

Submittal	Date
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/12/2023
50% CD	10/06/2023
100% CD	11/03/2023

Job Number	30548.02
Date Published	11/03/2023
Checked By	BN
Scale	As indicated

TYPICAL FOUNDATION AND SOG DETAILS

S6.11

CITY OF RANCHO CUCAMONGA
BUILDING & SAFETY DEPARTMENT

APPROVED

By: RJ for Zack Neighbors Date: Jan 24, 2024

Note: All contractors and subcontractors are required to obtain approval from the Business License Division before scheduling a final inspection.

PL□M□ING LEGEND

S□M□OL	A□□REVIATION	DESCRIPTION
	AV	ACID VENT PIPING
	A□	ACID □ ASTE PIPING A□OVE □INIS□ED □LOOR
	A□ □□	ACID □ ASTE PIPING □NDERGRO□ND
	GV	GREASE VENT PIPING
	G□	GREASE □ ASTE PIPING A□OVE □INIS□ED □LOOR
	G□ □□	GREASE □ ASTE PIPING □NDERGRO□ND
	V	SANITAR□ VENT PIPING
	SS	SANITAR□ SOIL OR □ ASTE PIPING A□OVE □INIS□ED □LOOR
	SS□	SANITAR□ SOIL OR □ ASTE PIPING □NDERGRO□ND
	OD	OVER□LO□ DRAIN PIPING
	SD	STORM DRAIN PIPING A□OVE □INIS□ED □LOOR
	SD□	STORM DRAIN PIPING □NDERGRO□ND
	SSD	S□□SOIL DRAINAGE PIPING
	CD	CONDENSATE DRAIN PIPING
	OCD	OVER□LO□ CONDENSATE DRAIN PIPING
	□□D	□OSE □I□□ DRAINAGE PIPING
	R□	RECLAIMED □ ATER PIPING
	IRR	IRRIGATION PIPING
	IC□	IND□STRIAL COLD □ ATER PIPING
	RO	REVERSE OSMOSIS □LENDED □ ATER PIPING
	C□	DOMESTIC COLD □ ATER PIPING
	C□ □□	DOMESTIC COLD □ ATER PIPING □NDERGRO□ND
	□□	DOMESTIC □OT □ ATER PIPING
	□□R	DOMESTIC □OT □ ATER RET□RN PIPING
	T□	DOMESTIC TEMPERED □ ATER PIPING
	T□R	DOMESTIC TEMPERED □ ATER RET□RN PIPING
	SC□	DOMESTIC SO□T COLD □ ATER PIPING
	S□□R	DOMESTIC SO□T □OT □ ATER RET□RN PIPING
	VAC	VAC□□M PIPING
	CA	COMPRESSED AIR PIPING
	G	STANDARD PRESS□RE GAS PIPING □" □ □□
	MPG	MEDI□M PRESS□RE GAS PIPING □□ PSI□
	MPG□	MEDI□M PRESS□RE GAS PIPING □NDERGRO□ND □□PSI□
	COM□AIR	□ ATER □EATER COM□□STION AIR
	E□□□AIR	□ ATER □EATER E□□A□ST AIR
	CVTR	□ ATER □EATER CONCENTRIC VENT T□R□ ROO□
	SOV IN CLG AP	SOV IN CEILING ACCESS PANEL
	SOV IN □□	SOV □ALVE IN CEILING □ELO□ □INIS□ED GRADE IN □ARD □O□
	SOV	SOV □ALVE A□OVE □INIS□ED GRADE
	SOV / SOC IN □ ALL AP	SOV / SOC □ALVE / S□□T□O□□ COC□ IN □ ALL ACCESS PANEL
	SOC	SOC □T□O□□ COC□ A□OVE □INIS□ED GRADE
	SOC IN CLG AP	SOC IN CEILING ACCESS PANEL
	SOC IN □□	SOC □T□O□□ COC□ □ELO□ □INIS□ED GRADE IN □ARD □O□
	□ □A IN □ ALL AP	□ ATER □AMMER ARRESTOR IN □ ALL ACCESS PANEL
	TP □ / SOV	TRAP PRIMER □ IT□ SOV IN □ ALL ACCESS PANEL
	R□□	RECESSED □OSE □I□□
	□□	□OSE □I□□
	AP	ACCESS PANEL
	□ □	□ AS□□ING MAC□INE O□TLET □O□ □ IT□ 1/4 T□RN VALVES
	I□	ICE MA□ER O□TLET □O□ □ IT□ 1/4 T□RN VALVE
	SV	SOLENOID VALVE
	GT	GAS T□RRET
	GPR	GAS PRESS□RE REG□LATOR
	MV / TMV	MI□ING VALVE / T□ERMOSTATIC MI□ING VALVE
	□ CO	□ ALL CLEANO□T
	□CO	□LOOR CLEANO□T
	COTG	CLEANO□T TO GRADE
	□D	□LOOR DRAIN OR AREA DRAIN
	□D	□LOOR DRAIN OR AREA DRAIN
	□S	□LOOR SIN□
		DR□□ ELL
	RR	ROO□ RECEPTOR
	IG	OVER□LO□ DRAIN SPILL TO GRADE
		PIPE RISER DO□ N □EL□O□ □
		PIPE RISER □P □EL□O□ □
		PIPE RISE OR DROP
		□RANC□ LINE TOP CONNECTION
		□RANC□ LINE □OTTOM CONNECTION
		CAP ON END O□ PIPE
		□NION
		SLEEVE
		SEISMIC □OINT
		□LO□ IN DIRECTION O□ ARRO□
		CONTIN□ATION O□ PIPING
	□LV	□ALANCING VALVE
	PRV	PRESS□RE RED□CING VALVE
	TPV	TEMPERAT□RE AND PRESS□RE RELIE□ VALVE
	CV	C□EC□ VALVE
RP□P	RP□P	RED□CED PRESS□RE □AC□□LO□ PREVENTER
CS		CONTROL STATION
		STRAINER
		P□MP
P1		PRESS□RE GA□GE
T1		TEMPERAT□RE GA□GE
□S		□LO□ S□ ITC□
□PS		PRESS□RE S□ ITC□
		A□□ASTAT

GENERAL STR□CT□RAL NOTES

1□ ALL E□□IPMENT□PIPING□□TILITIES□AND T□EIR CONNECTIONS S□ALL □E SEISMICALL□ □RACED PER LATEST C□C AND E□□IPMENT ANC□ORAGE □OR PIPING□D□CT□OR□□AND ELECTRICAL DISTRI□□TION S□STEM □RACING NOTES PER STR□CT□RAL DRA□ INGS□

2□ LIMITS TO NON□STR□CT□RAL ITEMS S□SPENDED □ROM CONCRETE □ILLED METAL DEC□ING□□ANGERS S□PPORTED □□ METAL DEC□ING □ IT□ STR□CT□RAL CONCRETE □ILL MA□□E INSTALLED □SING ICC□ES APPROVED ANC□ORAGE S□STEMS□DO NOT S□PPORT □TILITIES □ROM METAL DEC□ □ IT□O□T CONCRETE□□ANGERS □ROM CONCRETE □ILLED DEC□□□ □ERE OCC□RS□ARE LIMITED TO 4 INC□ DIAMETER PIPE MA□IM□M LOCATE □ANGERS T□ O□L□TES APART ON SAME DEC□ SPAN□S□PPORT LARGER PIPING □ROM STR□CT□RAL □EAMS OR COL□MNS□ADD DO□□LE □NISTR□T SPREADERS AS NECESSAR□□

□□ PROVIDE S□OP DRA□ INGS □ IT□ LARGE SCALE PLANS AND SECTIONS S□O□ ING □ANGERS AND □RACING LOCATIONS□S□OP DRA□ INGS S□ALL □E PREPARED □□ A STR□CT□RAL ENGINEER LICENSED IN T□E STATE O□ CALI□ORNIA AND S□ALL □E STAMPED AND SIGNED□INDICATE □ANGERS AND □RACING LOADS ON STR□CT□RAL □RAMING PLANS□

4□ E□PANSION ANC□ORS AND EPO□□ ANC□ORS□□ □ERE □SED□S□ ALL □AVE A MINIM□M EM□EDMENT O□EIG□T TIMES T□E ANC□OR DIAMETER AND A MINIM□M EDGE DISTANCE O□10 TIMES T□E DIAMETER□E□PANSION ANC□ORS AND EPO□□ ANC□ORS M□ST □AVE C□RRENT AND VALID ICC REPORT□S□OT PINS ARE NOT ACCEPTA□LE□

□□ □NLESS SPECI□IED ON STR□CT□RAL DRA□ INGS□AN□ ALTERATIONS OR MODI□ICATIONS TO A STR□CT□RAL ELEMENT □□ C□TTING□DRILLING□□ORING□ □RACING□□ETC□S□ALL □E SUBMITTED FOR APPROVAL □□ T□E STR□CT□RAL ENGINEER O□RECORD AND DSA PRIOR TO STARTING □ OR□□

□□ SEE GENERAL NOTES ON STR□CT□RAL DRA□ INGS □OR ADDITIONAL RE□□IREMENTS□

APPLICA□LE CODES

2022 CALI□ORNIA ADMINISTRATIVE CODE □CAC□□PART 1□TITLE 24 CCR

2022 CALI□ORNIA □□ILDING CODE □C□C□PART 2□TITLE 24 CCR □INTERNATIONAL □□ILDING CODE O□T□E INTERNATIONAL CODE CO□NCIL□□ IT□ CALI□ORNIA AMENDMENTS□

2022 CALI□ORNIA ELECTRICAL CODE □CEC□□PART □□TITLE 24 CCR □NATIONAL ELECTRICAL CODE O□T□E NATIONAL □IRE PROTECTION ASSOCIATION□ N□PA□

2022 CALI□ORNIA MEC□ANICAL CODE □CMC□□PART 4□TITLE 24 CCR □N□ORM MEC□ANICAL CODE O□T□E INTERNATIONAL ASSOCIATION O□ PL□M□ING AND MEC□ANICAL O□□ICIALS□IAPMO□

2022 CALI□ORNIA PL□M□ING CODE □CPC□□PART □□TITLE 24 CCR □N□ORM PL□M□ING CODE O□T□E INTERNATIONAL ASSOCIATION O□ PL□M□ING AND MEC□ANICAL O□□ICIALS□IAPMO□

2022 CALI□ORNIA ENERG□ CODE □CEC□□PART □□TITLE 24 CCR

2022 CALI□ORNIA □IRE CODE □C□C□PART □□TITLE 24 CCR □INTERNATIONAL □IRE CODE O□T□E INTERNATIONAL CODE CO□NCIL□

2022 CALI□ORNIA E□ISTING □□ILDING CODE □CE□C□PART 10□TITLE 24 CCR

2022 CALI□ORNIA GREEN □□ILDING STANDARDS CODE □CAL GREEN□PART 11□TITLE 24 CCR

2022 CALI□ORNIA RE□ERENCED STANDARDS CODE□PART 12□TITLE 24 CCR

TITLE 1□CCR□P□□LIC SA□ET□□STATE □IRE MARS□AL REG□LATIONS

APPLICA□LE STANDARDS

□OR A LIST O□APPLICA□LE STANDARDS□INCL□DING CALI□ORNIA AMENDMENTS TO T□E N□PA STANDARDS□RE□ER TO C□C C□APTER □□ AND C□C C□APTER □0□

PL□M□ ANNOTATION S□M□OLS

DETAIL

1 / P□01 — DETAIL IDENTI□ICATION; SEE — T□P; OCC□RANCE; S□EET □ OF □ERE DETAIL IS DRA□ N

ENLARGED PLAN

1 / P4\01 — PLAN IDENTI□ICATION; S□EET □ OF □ERE PLAN IS DRA□ N

CONTIN□ATION

1 / P2\01 — PLAN IDENTI□ICATION; SEE — OR CONT; S□EET □ OF □ERE PLAN IS DRA□ N

□□T□RE OR E□□IPMENT IDENTI□ICATION

RD\1 / T□P O□4 — □T□RE IDENTI□ICATION; □"□□00 S□; SPECI□IC IN□ORMATION; OCC□RANCE

10□□ / T□P O□2 — □ TO □S:1; SPECI□IC IN□ORMATION; OCC□RANCE

REVISION

1 — CLO□D ARO□ND REVISED AREA OPTIONAL

0101 / T□P O□5 — 1"□1□0 C□□; SPECI□IC IN□ORMATION; OCC□RANCE

0101 / T□P O□4 — DEMOLITION □E□NOTE; DEMOLITION □E□NOTE IDENTI□ICATION; OCC□RANCE

GENERAL NOTES

1□ ALL CONSTR□CTION AND MATERIALS S□ALL □E AS SPECI□IED AND IN ACCORDANCE □IT□ ALL APPLICA□LE CODES□ORDINANCES□LA□□S□PERMITS□ AND T□E CONTRACT DOC□MENTS□

2□ T□E CONTRACTOR S□ALL □E RESPONSI□LE □OR T□E ACC□RATE PLACEMENT O□ ALL NE□ CONSTR□CTION ON T□E SITE□

□□ T□E CONTRACTOR S□ALL VERI□□ ALL SITE CONDITIONS AND DIMENSIONS□ AND E□ACT LOCATIONS AND ELEVATIONS O□ PIPING □E□ORE STARTING □ OR□□SUCH A DISCREPANC□ APPEAR IN T□E CONTRACT DOC□MENTS□OR □ET□ EEN T□E CONTRACT DOC□MENTS AND E□ISTING CONDITIONS□NOTI□□ T□E ARC□ITECT AT ONCE □OR INSTR□CTION ON □O□ TO PROCEED□

4□ SE□ER□□ ATER□AND STORM DRAIN S□STEMS INDICATED IN T□ESE DRA□ INGS S□ALL E□TEND TO PL□M□ING/CIVIL POINTS O□ CONNECTION AT □D" O□TSIDE O□ T□E □□ILDING S□□NLESS NOTED OT□ER□ISE□□CONTIN□ATION O□ T□ESE PIPING S□STEMS ARE INDICATED ON T□E CIVIL DRA□ INGS □ IT□ CORRESPONDING ASSOCIATED MATERIALS SPECI□IED □NDER A SEPARATE SECTION O□ T□E PROJECT SPECI□ICATIONS□ALL S□C□ PIPING S□ALL □E INSTALLED IN A MANNER TO PROVIDE PROPER CONNECTION TO INVERT ELEVATIONS INDICATED ON CIVIL DRA□ INGS□□ □ERE SI□ES DI□□ER □ET□ EEN PL□M□ING AND CIVIL DRA□ INGS□CONTRACTOR S□ALL PROVIDE TRANSITION □ITTINGS AS NECESSAR□ TO ALLO□ □OR PROPER CONNECTION□

□□ TRAPS □OR ALL LAVATORIES AND SIN□S S□ALL TRAP STRAIG□T □AC□ TO □ ALL □ IT□ ALL RE□□IRED O□□SETS □APPENING □ IT□IN T□E □ ALL□

2□ ORI□ONTAL SOIL□□ ASTE AND TRAP PRIMER PIPING □ IT□IN T□E □□ILDING S□ALL □E INSTALLED CONCEALED □ IT□IN □ ALLS□□ELO□ □INIS□ □LOOR OR □ELO□ □INIS□ SLA□ AS APPLICA□LE □NLESS NOTED OT□ER□ISE□ALL OT□ER ORI□ONTAL PIPING □ IT□IN T□E □□ILDING S□ALL □E INSTALLED CONCEALED A□OVE CEILING OR □ IT□IN □ ALLS AS APPLICA□LE □NLESS NOTED OT□ER□ISE□ALL VERTICAL PIPING S□ALL □E INSTALLED CONCEALED □ IT□IN □ ALLS □NLESS NOTED OT□ER□ISE□NO PIPING S□ALL □E INSTALLED IN E□POSED LOCATIONS □NLESS SPECI□ICALL□ NOTED AS S□C□ ON PLANS□

2□ ORI□ONTAL SOIL AND □ ASTE PIPING 4" AND GREATER IN SI□E S□ALL SLOPE AT 1/□" PER □OOT □NLESS OT□ER□ ISE NOTED□ALL S□C□ PIPING □" AND LESS IN SI□E S□ALL SLOPE AT 1/4" PER □OOT □NLESS NOTED OT□ER□ ISE□

2□ ORI□ONTAL STORM DRAIN AND OVER□LO□ PIPING S□ALL SLOPE AT 1/□" PER □OOT □NLESS NOTED OT□ER□ ISE□

2□ ORI□ONTAL CONDENSATE PIPING S□ALL SLOPE AT 1/□" PER □OOT □NLESS NOTED OT□ER□ ISE□

10□ PRIOR TO COMMENCING AN□ □ OR□ VERI□□ ALL E□□IPMENT LOCATIONS □ IT□ T□E GENERAL CONTRACTOR□OT□ER TRADES□ARC□ITECT AND STR□CT□RAL ENGINEER□E□ACT RO□□ LOCATIONS AND RE□□IREMENTS S□ALL □E COORDINATED IN T□E □IELD□

11□ PIPING □ET□ EEN EAC□ PL□M□ING □IT□RE AND T□E NEAREST □RANC□ OR MAIN PIPING R□N S□ALL □E SI□ED TO MATC□ T□E CORRESPONDING □IT□RE SC□ED□LE CONNECTION SI□E AT A MINIM□M □NLESS NOTED AS A LARGER SI□E ON PLANS□PIPE □EADERS IN □ ALLS SERVING □AN□S O□ □IT□RES S□ALL □E □□LL LINE SI□E □ROM T□E □PSTREAM END O□ T□E □RANC□ LINE TO T□E END TERMINAL □NLESS NOTED OT□ER□ ISE□

12□ RE□ER TO ARC□ITECT□RAL DRA□ INGS □OR LOCATIONS□RO□G□ IN DIMENSIONS□AND MO□NTING □EIG□TS O□ ALL □IT□RES□E□□IPMENT□ ACCESS PANELS□□OSE □□ RECESSED □OSE □I□□S□OVER□LO□ DRAIN TERMINATION POINTS□AND OT□ER E□POSED PL□M□ING ELEMENTS□□ □ERE DIMENSIONS ARE NOT INDICATED□SEE□ARC□ITECT S DIRECTION AND/OR APPROVAL PRIOR TO INSTALLATION□

1□ ACCESS PANELS
A□□ERE POSSI□LE□□SE SAME ACCESS PANEL □OR S□□T□O□□ VALVES□ MI□ING VALVES□TRAP PRIMERS AND □ ATER □AMMER ARRESTORS AND/OR OT□ER INTERIOR □ ALL COMPONENTS □□EN□LOCATED DIRECTL□ AD□ACENT IN SAME IMMEDIATE VICINIT□SEE ARC□ITECT□RAL DRA□ INGS □OR MO□NTING □EIG□TS□
□□SEE SPECI□ICATIONS □OR ACCESS PANEL RE□□IREMENTS□
C□VALVES □OR SERVICE ACCESS□□ILIT□□VALVES INSTALLED A□OVE CEILING S□ALL □E □ IT□IN 1□" O□ CEILING□

14□ CLEANO□TS□
A□INTERIOR CLEANO□TS S□ALL □E □ ALL CLEANO□TS RAT□ER T□AN □LOOR CLEANO□TS □NLESS OT□ER□ISE INDICATED□S□ALL □E READIL□ ACCESSI□LE□ AND S□ALL □E CARE□□LL□ COORDINATED □ IT□ CASE□ OR□□E□□IPMENT AND OT□ER ITEMS TO AVOID CON□LICT□NOT ALL RE□□IRED CLEANO□TS ARE INDICATED ON PLANS□□ ALL CLEANO□TS IN □INIS□ED SPACES S□ALL □E INSTALLED IN ACCESS PANELS□□
□□SEE SPECI□ICATIONS □OR ACCESS PANEL RE□□IREMENTS□

1□□ □ARD □O□ AND CLEANO□T COVERS S□ALL □E CLEARL□ STAMPED □IT□ "□ ATER□"GAS"□OR "SE□ ER" AS APPLICA□LE□VALVES S□ALL □E INSTALLED AND PROPERL□ POSITIONED □IT□IN □ARD □O□ TO ALLO□ □OR □□LL RANGE O□ OPERATION□MAINTENANCE□REPAIR□AND REPLACEMENT□ALL □ARD □O□ES AND CLEANO□T COVERS S□ALL ALIGN □IT□ SCORED □ARDSCAPE □OINTS PER LANDSCAPE PLANS□□ARD □O□ COVERS S□ALL □E CONCRETE□SE□ ER CLEANO□T COVERS S□ALL □E □RASS□RE□ER TO SPECI□ICATIONS □OR ADDITIONAL IN□ORMATION□

1□□ VERI□□ E□ACT LOCATIONS O□ ALL MEC□ANICAL AND/OR OT□ER E□□IPMENT INSTALLED □□ OT□ERS AND RE□□IRING PL□M□ING CONNECTIONS PRIOR TO ORDERING O□ MATERIALS OR INSTALLATION□COORDINATE E□ACT RO□G□IN LOCATIONS AND RE□□IREMENTS □ IT□ OT□ER INSTALLING CONTRACTORS AS APPLICA□LE PRIOR TO INSTALLATION□

1□□ ADA LAVATORIES AND SIN□S S□ALL □E PROVIDED □ IT□ ADA INS□LATED TRAP AND S□PPL□ CURVES AS SPECI□IED□

1□□ ADA □ ATER CLOSETS S□ALL □E INSTALLED □ IT□ □L□S□ VALVE ACT□ATOR □ANDLE LOCATED ON T□E □ □EEL C□AIR ACCESS SIDE□

1□□ ALL VALVES□□NIONS□CLEANO□TS□ETC□TO □E SAME SI□E AS PIPE □NLESS NOTED OT□ER□ ISE□

20□ RE□ER TO MEC□ANICAL DRA□ INGS □OR MEC□ANICAL MANDATOR□ MEAS□RES AND ASSOCIATED RE□□IREMENTS□

21□ RE□ER TO ARC□ITECT□RAL DRA□ INGS □OR LOCATIONS O□ ALL □IRE RATED ASSEM□LIES□PROVIDE □IRESTOPPING AT PENETRATIONS T□RO□G□ □IRE RETARDANT CONSTR□CTION IN ACCORDANCE □ IT□ SPECI□ICATIONS□

22□ NO PIPING S□ALL □E INCASED IN T□E CONCRETE SLA□□

2□□ ALL VALVES□TRAP PRIMERS□□ ATER □AMMER ARRESTERS OR OT□ER E□□IPMENT S□O□ N IN □ ALLS OR A□OVE NON□ACCESSI□LE CEILINGS S□ALL □E INSTALLED □E□IND AN ACCESS PANEL□

24□ ALL PL□M□ING □IT□RES AND E□□IPMENT S□ALL □E CERTI□IED □□ T□E CALI□ORNIA STATE ENERG□ COMMISSION TO COMPL□ □ IT□ E□□ICIENC□ STANDARDS PER SECTION 2□□14 A□O□T□E TITLE 24 REG□LATIONS□

2□□ PIPING T□RO□G□ □IRE RATED □ ALLS S□ALL □E PER □L□□IRE RESISTANCE S□STEM NO□□ 1001□SEE ARC□ITECT□RAL PLANS □OR □ ALL LOCATIONS□

2□□ ALL □NDERGRO□ND IRON□COPPER OR STEEL PIPING LOCATED □OT□ INSIDE AND O□TSIDE O□ □□ILDING S□ALL □E ENCASED □ IT□IN A MINIM□M 10 MIL POL□ET□□LENE PLASTIC SLEEVE SEALED □ ATER TIG□T □ IT□ POL□VIN□L C□LORIDE TAPE□

2□□ ALL POINTS O□ CONNECTION S□ALL □E COORDINATED □ IT□ T□E GENERAL CONTRACTOR PRIOR TO □ID□

2□□ ALL □ORI□ONTAL PIPING LINES E□TENDED AND CONNECTED TO E□□IPMENT S□ALL □E R□N AT T□E □IG□EST POSSI□LE ELEVATIONS AND NOT LESS T□AN □" A□OVE T□E □LOOR TO PROVIDE CLEARANCE □OR CLEANING□AT □ ALL OR COL□MN LOCATIONS□PIPING RO□G□IN S□ALL □E ST□□ED IN □ ALLS □ □ENEVER POSSI□LE□

2□□ ALL C□TTING O□ E□ISTING PAVINGS□□ AL□S AND/OR □LOORS S□ALL □E □□ MAC□INE SA□ C□TTING □□OLES □OR PIPES IN CONCRETE □ ALLS OR □LOORS S□ALL □E DONE □□ CORE DRILLING E□□IPMENT□

□0□A□OVE GRO□ND PIPING S□STEMS S□ALL □E MAR□ED IN ACCORDANCE □ IT□ ASME A1□3□

□1□□NLESS SPECI□ICALL□ S□O□ N ON T□ESE PLANS NO STR□CT□RAL MEM□ERS S□ALL □E C□T□DRILLED OR NOTC□ED □ IT□O□T PRIOR □ RITTEN A□T□ORI□ATION □ROM T□E STR□CT□RAL ENGINEER□

□2□ ALL CONCEALED CONDENSATE DRAIN PIPING A□OVE CEILING S□ALL □E INS□LATED □ IT□ □/4" CLOSED CELL □OAM□INS□LATION S□ALL □E E□□AL TO ARMACELL "ARMA□LE□"□

□□□VENT PIPING S□ALL TERMINATE NOT LESS T□AN 10 □EET □ROM□OR NOT LESS T□AN □□EET A□OVE□AN OPENA□LE □ INDO□ □DOOR□OPENING□AIR INTA□E□OR VENT S□A□T□

A□□REVIATIONS

A□□REVIATION	DESCRIPTION
□	AND
□	AT
A□V	A□OVE
A/C	AIR CONDITIONING
ADA	AMERICANS □ IT□ DISA□ILITIES ACT
A□□	A□OVE□INIS□ □LOOR
A□□	A□□CRIT□□AVING □□RISDICTION
AP	ACCESS PANEL
APPRO□	APPRO□IMATEL□
ARC□	ARC□ITECT
ASD	A□TOMATIC SPRIN□LER DRAIN
ASTM	AMERICAN SOCIET□□OR TESTING AND MATERIALS
AVTR	ACID VENT T□R□ ROO□
□EL	□ELO□
□□□	□ELO□ □INIS□ED □LOOR
□□G	□ELO□ □INIS□ED GRADE
□P	□AC□□LO□ PREVENTER
□LDG	□□ILDING
□T□□	□RITIS□ T□ERMAL □NIT PER □O□R
CA	COMPRESSED AIR
C□C	CALI□ORNIA □□ILDING CODE□C□RRENT EDITION
CD	CONDENSATE DRAIN
CEC	CALI□ORNIA ELECTRICAL CODE□C□RRENT EDITION
C□C	CALI□ORNIA □IRE CODE□C□RRENT EDITION
C□M	C□□IC□EET PER MIN□TE
C□□	C□□IC□EET PER □O□R
CLG	CEILING
CMC	CALI□ORNIA MEC□ANICAL CODE□C□RRENT EDITION
CO	CLEANO□T
COM□	COM□□STION
CONT	CONTIN□ATION
CONTR	CONTRACTOR
CPC	CALI□ORNIA PL□M□ING CODE□C□RRENT EDITION
CVTR	CONCENTRIC VENT T□R□ ROO□
C□D	CAN □ AS□□ DRAIN
□D□	DEMOLIS□
DET	DETAIL
DEPT	DEPARTMENT
DIA	DIAMETER
DN	DO□ N
D□G	DRA□ING
	DIAMETER
E	EAST
EA	EAC□
E□IST	E□ISTING
□E	E□ISTING
ELEC	ELECTRICAL
ENGR	ENGINEER
EOR	ENGINEER ON RECORD
ET	E□PANSION TAN□
E□□	E□□A□ST
□	□A□REN□EIT
□D	□LOOR DRAIN
□□E	□INIS□ □LOOR ELEVATION
□IN □LR	□INIS□ □LOOR
□IN GR	□INIS□ GRADE
□LR	□LOOR
□M	□ACTOR□ MAN□AL
□PS	□EET PER SECOND
□T	□OOT□□EET
□V	□L□S□ VALVE
GA	GA□GE
GAL	GALLONS
GPM	GALLONS PER MIN□TE
GVTR	GREASE VENT T□R□ ROO□
□DR	□EADER
□ORI□	□ORI□ONTAL
□□D	□□ORSE □□□ DRAINAGE
□P	□ORSE PO□ ER
□VAC	□EATING VENTILATION AND AIR CONDITIONING
□□	□ERT□
IC□	IND□STRIAL COLD □ ATER
IE	INVERT ELEVATION
IN	INC□ES
IN □ C	INC□ES □ ATER COL□MN
INT	INTEGRAL
IRR	IRRIGATION
□□	□ILO□ ATT
L□S	PO□NDS
MA□	MA□IM□M
M□□	T□O□SAND □RITIS□ T□ERMAL □NITS PER □O□R
MC	MEC□ANICAL CONTRACTOR
MEC□	MEC□ANICAL
M□R	MAN□□ACT□RER
MIN	MINIM□M
N	NORT□
NA	NOT APPLICA□LE
NIC	NOT IN CONTRACT
N□PA	NATIONAL □IRE PROTECTION ASSOCIATION
NO	N□M□ER
NTS	NOT TO SCALE
OC	ON CENTER
OCD	OVER□LO□ CONDENSATE DRAIN
OD	OVER□LO□ DRAIN□O□TSIDE DIAMETER
P	P□MP
PCD	P□MPED CONDENSATE DRAIN
P□	P□ASE
PL□G	PL□M□ING
POC	POINT O□ CONNECTION
POD	POINT O□ DISCONNECTION
PRV	PRESS□RE RED□CING VALVE
PSI	PO□NDS PER S□□ARE INC□
RO	REVERSE OSMOSIS
RPM	REVOL□TIONS PER MIN□TE
R□	RECLAIMED □ ATER
S	SO□T□
SD	STORM DRAIN
S□	S□□ARE □OOT
S□D	S□O□ER DRAIN
SIM	SIMILAR
SP□LR	SPRIN□LER
SC□	SO□T COLD □ ATER
SS	SERVICE SIN□
SST	STAINLESS STEEL
STD	STANDARD
STR□CT	STR□□T□RAL
S□S	S□STEM
TD	TRENC□ DRAIN
TEMP	TEMPERAT□RE
T□R□	T□RO□G□
T□STAT	T□ERMOSTAT
T□P	T□PICAL
□L	□NDER□ RITER'S LA□ORATOR□
□NO	□NLESS NOTED OT□ER□ ISE
VA	VAC□□M
V	VOLT
V□□	VENT □ELO□ □LOOR
V□G	VENT □ELO□ GRADE
VTR	SANITAR□ VENT T□R□ ROO□
□	□ EST
□ /	□ IT□
□ /O	□ IT□O□T
□ CO	□ ALL CLEANO□T
□ C	□ ATER COL□MN
□ T	□ EIG□T
□□	□ARD □O□

PIPE MATERIALS SC□ED□LE		
SERVICES	LOCATION	MATERIAL
GAS	E□TERIOR A□OVE GRADE	2□INC□ES □ SMALLER □OT□DIP GALVANI□ED PIPE□SC□ED□LE 40□ASTM A□□□T□PE □□GRADE A□T□READED□COMPL□ING □ IT□ ASME □1□20□1□□ IT□ MALLEA□LE□IRON T□READED □ITTINGS□ASME □1□□□CLASS 1□0□2□□INC□ES AND LARGER □LAC□ STEEL □OT□DIP GALVANI□ED PIPE□SC□ED□LE 40□□ ASTM A□□A□□M □ IT□ ASTM A 2□4/A2□4M □ RO□G□T STEEL □ ELDED □ITTINGS□
	INTERIOR A□OVE GRADE	2□INC□ES □ SMALLER □LAC□□ STEEL PIPE□SC□ED□LE 40□ASTM A□□T□PE □□GRADE A□T□READED□COMPL□ING □ IT□ ASME □1□20□1□□ IT□ MALLEA□LE□IRON T□READED □ITTINGS□ASME □1□□□CLASS 1□0□2□□INC□ES AND LARGER □LAC□ STEEL PIPE□SC□ED□LE 40□ASTM A□□A□□M □ IT□ ASTM A 2□4/A2□4M □ RO□G□T STEEL □ ELDED □ITTINGS□
	□ELO□ GRADE	2□INC□ES □ SMALLER POL□ET□□LENE PIPE□ASTM D2□1□□SDR 11□PE □ITTINGS□ASTM D 2□□□□SOC□ET□□□SION T□PE OR ASTM D □2□1□□□TT□□SION T□PE 2□□INC□ES AND LARGER □LAC□ STEEL PIPE□SC□ED□LE 40□ASTM A□□A□□M □ IT□ ASTM A 2□4/A2□4M □ RO□G□T STEEL □ ELDED □ITTINGS□ □ RAP □ IT□ 4MIL POL□ET□□LENE SLEEVE □OR CORROSION PROTECTION□

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING

949-261-1001 Office

949-260-1190 Fax

LPADesignStudios.com

5301 California Avenue, Suite 100
Irvine, California 92617

AMG & ASSOCIATES

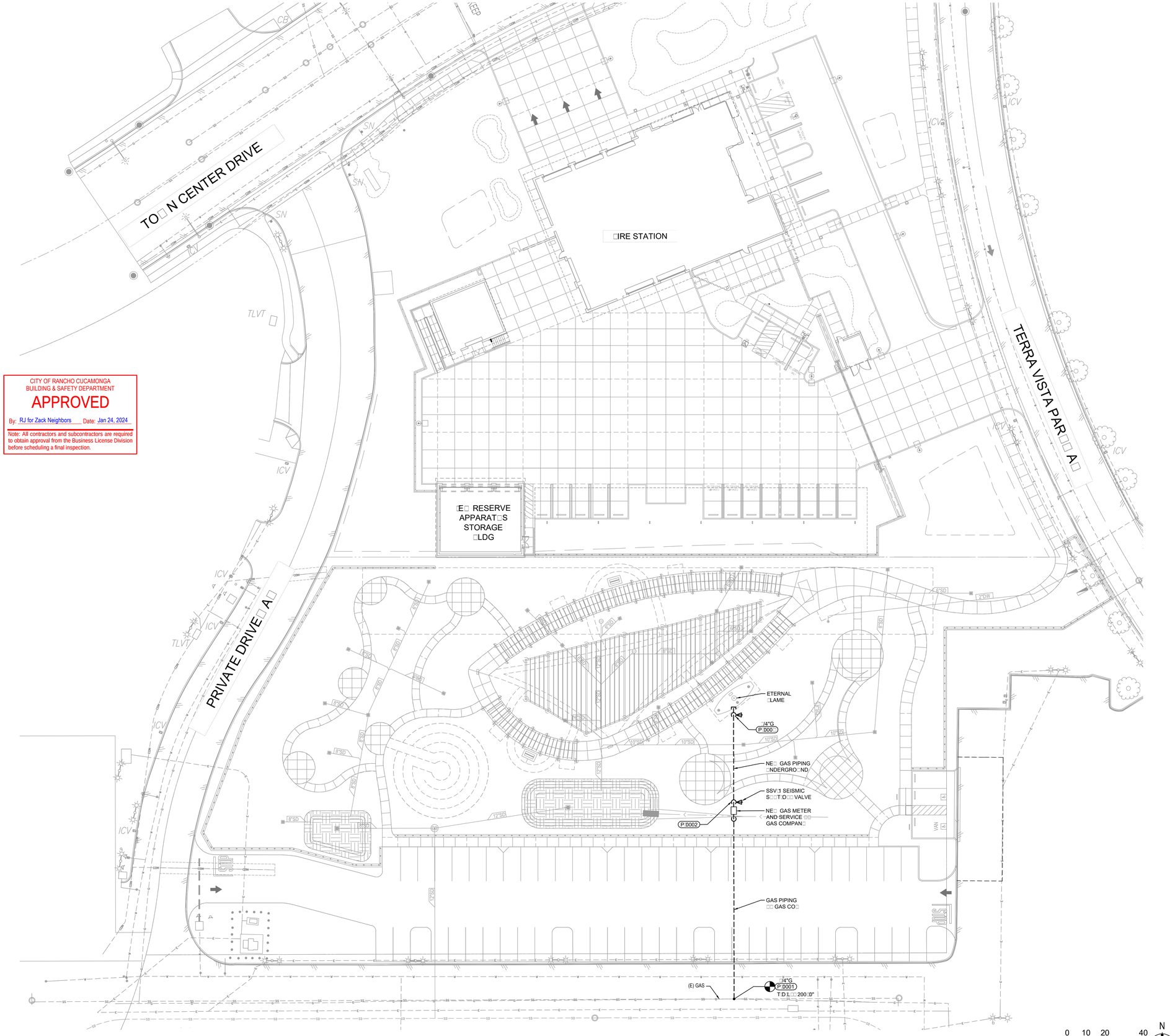
661-251-7401 Office

AMGAssociates.com

26535 Summit Circle
Santa Clarita, CA 91350

REGISTERED PROFESSIONAL ENGINEER
No. M31731
Exp. 06/30/2025
STATE OF CALIFORNIA

T□□□d □□□□ □□□□□d □□□□□r □r□□□d □□□□□ □□□□□ d □□□□□□□□□□□□ □d d □□□□□□□□□□r□ /□□□ □r□□□□□□□□□□□



CITY OF RANCHO CUCAMONGA
BUILDING & SAFETY DEPARTMENT

APPROVED

By: RJ for Zack Neighbors Date: Jan 24, 2024

Note: All contractors and subcontractors are required to obtain approval from the Business License Division before scheduling a final inspection.

PL□M□ING SITE PLAN 1" □ 20□ 01

KEYNOTES

ITEM	DESCRIPTION
P□0001	POC NE□ GAS SERVICE □□ GAS CO□TO E□ISTING GAS SERVICE ON SITE□□IELD VERI□□ E□ACT LOCATION PRIOR TO □ID□
P□0002	GAS PIPING DO□□ N TO □ELO□ GRADE□PROVIDE □ IT□ SEISMIC S□□T□ O□□ VALVE □SSV□1□ON DROP□
P□000□	GAS PIPING □P□ROM □ELO□ GRADE □IT□ S□□T□O□□ GAS COC□ ON RISE□CAPPED GAS TIG□T □OR CONNECTION TO ETERNAL □LAME□

PLAN NOTES

1□ GAS METER AND REG□LATOR PER GAS P□RVE□ORS RE□□IREMENTS□

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue,
Suite 100
Irvine, California 92617

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

REGISTERED PROFESSIONAL ENGINEER
No. M31731
Exp. 06/30/2025
STATE OF CALIFORNIA

T□□d □□□□ □□□□d □□□□□r r□□□d □□□□ □□□□□ d□□□□□□□□□□ □d d□□□□□ □□ □r□ □d □□r □□□□ □□□□ A□r□□□□ d□□□ □□□ r□ □□□r□□ □□□□ □□□□r □□□□ A□r□□□□ d□□□ □□□□ r□ □□□r□□□□ □□□□□□□□ r□ □□□ r□□LPA□ □□□LPA□□□d □□□□□□□□ □□□ □□□□ □□ □□□□□ r□ □□ □□r □□□r □□□□□□□□ r□ □□□□ □□□□□□□□ □□□□□□□□ r□ □□□ □□□□□□□□ □□□□□□□□ r□ □□□□□□□□ □□□□□□□□ r□ □□□□□□□□ □□□□□□□□ r

GENERAL NOTES

1. THE ELECTRICAL CONTRACTOR (EC) SHALL INCLUDE AND PROVIDE IN BID ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND OPERATIONAL INSTALLATION OF ALL ELECTRICAL SYSTEMS.

2. EC SHALL COORDINATE AND OBTAIN ALL APPROVALS, PERMITS, AND DOCUMENTS FROM REGULATORY AGENCIES AND UTILITY COMPANIES.

3. ALL CONDUIT RACEWAY SYSTEMS ARE TO BE INSTALLED AS FOLLOWS:
   a. RIGID GALVANIZED STEEL IS TO BE INSTALLED IN ALL AREAS WHICH ARE EXPOSED TO WEATHER AND/OR PHYSICAL DAMAGE.
   b. FLEXIBLE METALLIC CONDUIT I S PERMITTED FOR SHORT CONNECTIONS TO LIGHT FIXTURES (6'-0" MAX). FLEXIBLE CONDUIT SHALL ALSO BE INSTALLED FOR EQUIPMENT REQUIRING VIBRATION ISOLATION AND HORIZONTAL RUNS IN WOODEN STUD WALLS.
   c. ELECTRICAL METALLIC TUBING (EMT) WITH COMPRESSION TYPE FITTINGS SHALL BE USED FOR BUILDING INTERIOR WORK.
   d. PVC CONDUIT SHALL BE USED FOR UNDERGROUND CONDUITS. ROUTE CODE SIZED GROUND WIRE INSIDE OF CONDUIT. CONDUIT RISERS AND STUBS ABOVE GRADE SHALL BE I.M.C. WITH HALF-LAPPED TAPE COVERING OR PVC COATING.

4. UNLESS OTHERWISE NOTED OR REFERENCED ON THE DRAWINGS ALL NEW ELECTRICAL WIRING IS TO BE 600V RATED COPPER WITH TYPE "THHN/THWN" INSULATION.

5. ALL MOUNTING HEIGHTS REFERENCED ON DRAWINGS ARE MEASURED FROM FINISHED FLOOR UNLESS OTHERWISE REFERENCED OR INDICATED ON THE DRAWINGS.

6. ALL ELECTRICAL EQUIPMENT LOCATIONS (LIGHTING, RECEPTACLE, FLOOR BOX, ETC.) ARE TO BE VERIFIED WITH THE ARCHITECT AND/OR EQUIPMENT SUPPLIER PRIOR TO BEGINNING ANY ROUGH-IN.

7. ALL LIGHTING FIXTURES SHALL BE MOUNTED AND SUPPORTED IN ACCORDANCE WITH OSHA STANDARDS, AND ALL STATE, LOCAL, SEISMIC, AND NATIONAL ELECTRIC CODES.

EQUIPMENT ANCHORAGE NOTE:

THE ATTACHMENT OF THE FOLLOWING ITEMS SHALL BE DESIGNATED TO RESIST THE FORCES PRESCRIBED ABOVE, BUT NEED NOT BE DETAILED ON THE PLANS, AND THE PROJECT INSPECTOR WILL VERIFY THAT THESE ITEMS (EQUIPMENT) HAVE BEEN ANCHORED:

A. EQUIPMENT WEIGHING LESS THAN 400 PUNDS AND SUPPORTED DIRECTLY ON THE FLOOR OR ROOF.
B. FURNITURE REQUIRED TO BE ATTACHED IN ACCORDANCE WITH ASCE 7-10, SECTION 13.5
C. TEMPORARY OR MOVABLE EQUIPMENT WITH FLEXIBLE CONNECTION TO POWER OR UTILITIES.
D. EQUIPMENT WEIGHING LESS THAN 20 PUNDS SUPPORTED BY VIBRATION ISOLATORS.
E. EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUSPENDED FROM A ROOF OR FLOOR OR HUNG ON A WALL.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS BRACING NOTE:

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6 AND 2013 CBC, SECTIONS 1615A 1.20, 1615A.1.21 AND 1615A.1.22.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPA #), AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

1. THE DRAWINGS INCLUDED IN THIS DOCUMENT SET ARE DIAGRAMMATIC. THEY ARE REPRESENTATIVE OF THE ENGINEER OF RECORDS DESIGN INTENT FOR ALL ELECTRICAL DEVICES/EQUIPMENT AND THE INDIVIDUAL POWER FEEDS THEY ARE TO BE CONNECTED TO. THE SELECTED EC SHALL BE RESPONSIBLE FOR PROVIDING ALL J-BOXES, CONDUIT, WIRING/CABLING, ETC. AS REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL INSTALLATION.

2. ALL ELECTRICAL EQUIPMENT (PANELS, RECEPTACLES, J-BOXES, ETC.) SHALL BE WEATHERPROOF AND/OR INSTALLED IN A NEMA 3R ENCLOSURE WHERE APPLICABLE OR INSTALLED OUTDOORS. PROVIDE PLAN REFERENCED DETAILS FOR ALL PANELS/EQUIPMENT WEIGHING ≥ 20 POUNDS HUNG FROM ROOF/FLOOR ABOVE OR ON WALL OR ≥ 400 POUNDS SUPPORTED ON ROOF/FLOOR.

3. ALL ELECTRICAL WORK SHALL BE PERFORMED ACCORDING TO STATE, LOCAL, NATIONAL, AND DISTRICT STANDARDS AND CODES. COORDINATE SPECIFIC REQUIREMENTS WITH DISTRICT STANDARDS AND AUTHORITY HAVING JURISDICTION.

4. ALL ELECTRICAL EQUIPMENT SHALL BE NEW AND IS TO BE CLEARLY LABELED/IDENTIFIED AS UNDERWRITER LABORATORIES (UL) COMPLIANT UNLESS OTHERWISE NOTED OR REFERENCED IN THE DRAWINGS OR SPECIFICATIONS.

5. EC IS RESPONSIBLE FOR SECURING ALL REQUIRED BUILDING PERMITS AND SHALL INCLUDE THE COST TO SECURE BUILDING PERMITS IN THEIR FINAL BID.

6. UNLESS OTHERWISE WRITTEN, STATED, OR REFERENCED IN DRAWINGS OR SPECIFICATIONS CONTRACTOR SHALL GUARANTEE THE COMPLETE ELECTRICAL INSTALLATION FOR A PERIOD OF 1-YEAR.

7. ALL ELECTRICAL DISTRIBUTION EQUIPMENT (PANELS, DISTRIBUTION BOARDS, TRANSFORMERS, ETC), FEEDERS (CONDUIT, CONDUCTOR SIZE, AND QUANTITY), MECHANICAL EQUIPMENT, ELEVATORS, VARIABLE FREQUENCY DRIVES (VFD'S), ETC. MAY ONLY BE REFERENCED ON THE SINGLE-LINE DRAWING AND NOT INDIVIDUAL PLAN SHEETS. EC SHALL REVIEW AND VERIFY ALL REFERENCED INFORMATION ON THE SINGLE-LINE DRAWING.

8. EC SHALL BE RESPONSIBLE FOR ALL REQUIRED SAW-CUTTING, CORE DRILLING, PATCHING, REFINISHING, ETC. AS REQUIRED FOR INSTALLATION OF ELECTRICAL EQUIPMENT AND SYSTEMS. ANY PENETRATIONS OR OPENINGS MADE IN WALLS OR STRUCTURES SHALL BE PATCHED AND/OR SEALED AS REQUIRED TO MAINTAIN THE INTEGRITY AND/OR RATING OF THE WALL OR STRUCTURE. NO STRUCTURE MEMBER SHALL BE NOTCHED/CUT/DRILLED/BORED UNLESS SPECIFICALLY DETAILED ON THE DSA APPROVED DRAWINGS. ALTERNATIVELY, OBTAIN APPROVAL FROM STRUCTURAL ENGINEER OF RECORD AND DSA IF NO SUCH DETAILS OCCUR PRIOR TO INITIATING SUCH WORK.

9. EC SHALL VISIT THE SITE PRIOR TO SUBMISSION OF THEIR FINAL BID TO VERIFY ALL EXISTING SITE CONDITIONS WHICH MAY AFFECT THE COMPLETION OF THE ELECTRICAL INSTALLATION. ALL METHODS AND REQUIREMENTS FOR \ INSTALLATION SHALL BE DETERMINED PRIOR TO BID DATE. ELECTRICAL EC SHALL NOTIFY THE ENGINEER OF RECORD OF ANY REQUIRED MODIFICATIONS WHICH ARE NOT REFERENCED ON THESE ELECTRICAL PLANS. SUBMITTAL OF THE EC'S BID DEMONSTRATES THE CONTRACTOR'S AWARENESS OF ALL SITE CONDITIONS AND REQUIRED WORK TO BE PERFORMED.

10. ALL CEILINGS AND CEILING SYSTEMS AS A RULE ARE CONSIDERED TO BE INACCESSIBLE. ALL ELECTRICAL DEVICES AND EQUIPMENT INSTALLED ABOVE CEILINGS ARE TO BE MOUNTED IN A LOCATION WHICH IS ACCESSIBLE. IN SITUATIONS WHERE ELECTRICAL DEVICES AND EQUIPMENT MUST BE INSTALLED IN AN AREA WHICH IS INACCESSIBLE, EC SHALL INSTALL AN ADEQUATELY SIZED, CODE COMPLIANT ACCESS PANEL AS REQUIRED BY CURRENT CODES - LOCATION OF THE REQUIRED ACCESS PANEL SHALL BE COORDINATE WITH THE ARCHITECT AND INTERIOR DESIGNER PRIOR TO ROUGH-IN.

11. EC IS RESPONSIBLE FOR COMPLETING ALL FINAL ELECTRICAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT AND SHALL PROVIDE ALL MOTOR START SWITCHES, DISCONNECTS, ETC. AS REQUIRED.

12. ALL ELECTRICAL EQUIPMENT CONNECTIONS, MOUNTING LOCATIONS, ELECTRICAL REQUIREMENTS, ETC. ARE TO BE COORDINATED AND VERIFIED PRIOR TO COMMENCEMENT OF ELECTRICAL ROUGH-IN.

13. EC TO SUBMIT SHOP DRAWINGS FOR THE APPROVAL OF THE ELECTRICAL ENGINEER OF RECORD FOR ALL ELECTRICAL EQUIPMENT AND MATERIALS TO BE UTILIZED IN THE ELECTRICAL INSTALLATION. ALL APPROVALS BY THE ENGINEER OF RECORD MUST BE SECURED PRIOR TO COMPLETION OF ANY PURCHASE ORDERS OR ROUGH-IN WORK.

14. THESE ELECTRICAL DRAWINGS AND ASSOCIATED SPECIFICATIONS ARE TO BE CONSIDERED CONTRACT DOCUMENTS FOR AGENCY REVIEW/APROVAL AND EC BIDDING PURPOSES.

15. THE COMPLETE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH NEC/CEC ARTICLE 250. ALL POWER AND LIGHTING CIRCUITS SHALL BE INSTALLED WITH A MINIMUM #12AWG CU GROUND WIRE UNLESS OTHERWISE NOTED OR REFERENCED.

16. EC TO PROVIDE ENGRAVED PHENOLIC NAMEPLATES ON ALL DISCONNECT SWITCHES, DISTRIBUTION EQUIPMENT, J-BOXES ETC. WITH METALLIC COVERS.

24. ALL COVER PLATES FOR LIGHT SWITCHES AND OUTLETS SHALL BE STAINLESS STEEL WITH PANEL AND CIRCUIT ENGRAVED NAMEPLATES FOR THE FOLLOWING AREAS: ALL CLASSROOM/RECREATIONAL/THEATRICAL ETC. BUILDINGS ON ELEMENTARY SCHOOL/MIDDLE SCHOOL/HIGH SCHOOL/COLLEGE/UNIVERSITY CAMPUSES; AND IN RESTROOMS/LAB SPACES/HEALTHCARE FACILITIES/ABOVE COUNTER SPACES/KITCHENS/SHOP AREAS/ANY HIGH ABUSE AREAS/ETC IN ALL CIVIC/INSTITUTIONAL/HEALTHCARE/OFFICE-WORKSPACE ENVIRONMENTS - UNLESS OTHERWISE NOTED. PLASTIC COVER PLATES WITH THE APPROPRIATE COLOR SHALL BE PERMITTED IN ALL OTHER AREAS - UNLESS OTHERWISE CODES. IN INSTANCES WHERE PLASTIC COVER PLATES ARE UTILIZED EC SHALL WALL MOUNT AN ENGRAVED PHENOLIC NAMEPLATE WITH THE PANEL AND CIRCUIT NUMBER DIRECTLY ABOVE THE DEVICE.

25. AT THE COMPLETION OF THE PROJECT THE EC SHALL PROVIDE THE OWNER WITH A COMPLETE SET OF AS-BUILT ELECTRICAL DRAWINGS.

26. ANY AND ALL WORK THAT REQUIRES AN INTERRUPTION TO A BUILDING(S) ELECTRICAL SERVICE MUST BE COORDINATED WITH THE DISTRICT A MINIMUM OF 48 HOURS IN ADVANCE. ANY SERVICE DOWNTOWN SHALL NOT OCCUR DURING SCHOOL HOURS.

27. EC SHALL BE RESPONSIBLE FOR FOR ENSURING THAT ALL LOW VOLTAGE SYSTEMS ARE COMPATIBLE AND ARE COMPLETE AND OPERATIONAL.

28. EC SHALL PERMANENTLY TAG ALL CONDUCTORS IN EACH ELECTRICAL AND LOW VOLTAGE SYSTEM AS REFERENCED IN THE SPECIFICATIONS.

29. ANY SURFACE MOUNTED EXPOSED CONDUIT IN VIEW OF THE PUBLIC SHALL BE PAINTED TO MATCH THE FINISH OF THE SURFACE TO WHICH IT IS MOUNTED WITH TWO (2) COATS OF PAINT. ALL EXTERIOR SURFACE MOUNTED EXPOSED CONDUITS ARE TO BE PAINTED WITH TWO (2) COATS OF WEATHERPROOF LATEX PAINT.

30. EC TO PROVIDE ALL CONDUIT ONLY (C.O.) INFRASTRUCTURE WITH A 3/16" NYLON PULL ROPE. LABEL PULL ROPE AT EACH END WITH THE LOCATIONS OF ORIGIN AND TERMINATION.

31. IN INSTANCES WHERE A CONFLICT BETWEEN THE ELECTRICAL DRAWINGS AND THE SPECIFICATIONS FOR THE PROJECT EXISTS, THE EC SHALL ADHERE TO THE MORE STRINGENT REQUIREMENT.

32. THE SEISMIC ANCHORAGE OF ELECTRICAL EQUIPMENT SHALL CONFORM TO C.C.R. TITLE 24, 2010 CBC SECTION 1615A AND ASCE7-05 SECTION 13.3 THRU 13.6. ANCHORAGE DETAILS NOT SHOWN ON THE APPROVED PLANS OR OTHERWISE APPROVED BY DSA ARE SUBJECT TO FIELD APPROVAL BY THE ARCHITECT AND/OR STRUCTURAL ENGINEER OF RECORD AND DSA.

33. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. AS SUCH, ALL ELECTRICAL EQUIPMENT LOCATIONS, CONDUIT ROUTING, ETC. ARE NOT PRECISE AND SHALL BE COORDINATED, VERIFIED, AND DETERMINED IN THE FIELD. EC TO INSTALL ALL ELECTRICAL EQUIPMENT AND ROUTE ALL CONDUITS IN LOCATIONS WHICH MEET CODE REQUIREMENTS FOR ACCESSIBILITY/MOUNTING AND DO NOT INTERFERE WITH ANY BUILDING STRUCTURES, UTILITIES, OR OTHER TRADE EQUIPMENT.

CITY OF RANCHO CUCAMONGA
BUILDING & SAFETY DEPARTMENT
APPROVED
By: RJ for Zack Neighbors Date: JUN 19 2024
Note: All contractors and subcontractors are required to obtain approval from the Business Licensing Division before scheduling a final inspection.

LOW VOLTAGE SYSTEM SYMBOLS

COMBINATION TELE AND DATA OUTLET BOX,WALL MOUNTED AT 44" MAX AFF TO HIGHEST OPERABLE PART OF DEVICE - UON OR REQUIRED. STUB A 1-1/4"C.O. WITH PULL STRING UP 6" ABOVE THE ACCESSIBLE CEILING AND PROVIDE A BUSHING. 4S/DP MINIMUM WITH SINGLE GANG RING.

COMBINATION TELEPHONE AND DATA OUTLET BOX FLUSH MOUNTED IN CEILING - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.

WIRELESS ACCESS POINT - (2) CAT 6 CABLES IN SURFACE MOUNT HOUSING

CONCEALED TELEPHONE/DATA CONDUIT RUN, 3/4" CONDUIT ONLY (MIN). SEE TABLE FOR CONDUIT SIZE VARIATIONS T4 = 2" C.O.
T1 = 1" C.O. T2 = 1-1/4" C.O. T3 = 1-1/2" C.O.
T5 = (2) 3/4" C.O.

FLUSH MOUNTED, LOCKABLE TERMINAL CABINET WITH TERMINAL STRIPS AS REQUIRED.

SURFACE MOUNTED, LOCKABLE TERMINAL CABINET WITH TERMINAL STRIPS AS REQUIRED.

TELEPHONE TERMINAL BACKBOARD SIZED AS NOTED, REFER TO SYSTEM GROUND DETAIL.

COMBINATION TELEPHONE AND DATA OUTLET BOX MOUNTED IN ACCESSIBLE CEILING SPACE OR IN FLOOR BOX PER PLAN FOR FLEXIBLE CONNECTION TO FURNITURE SYSTEM. VERIFY CONNECTION REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.

COMBINATION TELEPHONE AND DATA OUTLET, WALL MOUNTED AT +18" A.F.F. FOR FLEXIBLE CONNECTION TO FURNITURE SYSTEM. PROVIDE THE FOLLOWING:

- IN A NON-RATED INSULATED WALL, OR NON-RATED UNINSULATED WALL, PROVIDE A 2-GANG MUD RING OR CADDY #RBS SERIES BOX MOUNTING BRACKET (EQUAL BY B-LINE OR RAYCO) WITH (2) 1-¼"C.O. WITH PULL STRING TO ACCESSIBLE CEILING. PROVIDE 1-¼" BUSHINGS AT CONDUIT ENDS. REFER TO ARCHITECTURAL PLANS FOR WALL CONSTRUCTION/TYPE AND CEILING CONDITIONS.
- IN A RATED WALL, PROVIDE (1) 4S/DP BOX WITH (2) 1-¼"C.O. AND (1) 4S/DP BOX WITH (1) 1-¼"C.O. WITH PULL STRINGS IN EACH CONDUIT TO ACCESSIBLE CEILING. PROVIDE 1-¼" BUSHINGS AT CONDUIT ENDS. UTILIZE CADDY #RBS SERIES BOX MOUNTING BRACKET TO MAINTAIN BOX ALIGNMENT. (EQUAL BY B-LINE OR RAYCO)UTLIZE FIRESTOPPING SYSTEM PADS RATED FOR USE ON THE INSIDE OR OUTSIDE OF THE BOX (STI OR EQUAL) AS REQUIRED TO MAINTAIN RATING OF WALL OR MEMBRANE. REFER TO ARCHITECTURAL PLANS FOR WALL CONSTRUCTION/TYPE AND CEILING CONDITIONS.

ABBREVIATIONS

4S/DP	4" SQUARE BY 2 1/8" DEEP BOX	LTG, LTS	LIGHTING
ADA	AMERICAN WITH DISABILITIES ACT	LPS	LOW PRESSURE SODIUM
A.F.F.	ABOVE FINISH FLOOR	MAX.	MAXIMUM
A.F.G.	ABOVE FINISH GRADE	MDF	MAIN DISTRIBUTION FRAME
AWG	AMERICAN WIRE GAUGE	MOCP	MAXIMUM OVERCURRENT PROTECTION
AMP, A	AMPERE	MCB	MAIN CIRCUIT BREAKER
A.I.C.	AMPERES INTERRUPTING CAPACITY (SYMMETRICAL)	MLO	MAIN LUGS ONLY
		M.C.	MECHANICAL CONTRACTOR
AF/AT	AMP FRAME, AMP TRIP	M	METER
AHJ	AUTHORITY HAVING JURISDICTION	M/M	METER MAIN
AS/AF	AMP SWITCH, AMP FUSE	MV	MERCURY VAPOR
ATS	AUTOMATIC TRANSFER SWITCH	MH	METAL HALIDE
AVG	AVERAGE	MIN.	MINIMUM
BDF	BUILDING DISTRIBUTION FRAME	MCA	MINIMUM CIRCUIT AMPS
BR	BRANCH	MCC	MOTOR CONTROL CENTER
BLDG	BUILDING	MCM	THOUSAND CIRCULAR MILS
CEC	CALIFORNIA ELECTRICAL CODE	MCP	MOTOR CIRCUIT PROTECTOR
CIRC., CKT.	CIRCUIT	MFR.	MANUFACTURER
CB	CIRCUIT BREAKER	MTD	MOUNTED
CSFD	COMBINATION SMOKE FIRE DAMPER	MW	MICROWAVE
C	CONDUIT	N	NEW EQUIP.
C.O.	CONDUIT ONLY, COMPLETE WITH PULLSTRING	NATS	NON AUTOMATIC DISCONNECT
		NEC	NATIONAL ELECTRICAL CODE
CONN	CONNECTED	NEMA	NATIONAL ELECTRICAL MANUFACTURERS' ASSOCIATION
CPT	CONTROL POWER TRANSFORMER		
CLCB	CURRENT LIMITING CIRCUIT BREAKER	NC	NORMALLY CLOSED
CLF	CURRENT LIMITING FUSE	NO	NORMALLY OPENED
CT	CURRENT TRANSFORMER	NF	NON-FUSED
DIA	DIAMETER	NIC	NOT IN CONTRACT
DISC	DISCONNECT	N.T.S.	NOT TO SCALE
DIST	DISTRIBUTION	NL	NIGHT LIGHT
E	EXISTING EQUIP. TO REMAIN	NO. or #	NUMBER
E.C.	ELECTRICAL CONTRACTOR	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED.
EMS	ENERGY MANAGEMENT CONTROL SYSTEM	%Z	PERCENT IMPEDANCE
EMT	ELECTRICAL METALLIC TUBING	PH. or ~	PHASE
ENT	ELECTRICAL NON-METALLIC TUBING	PC	PHOTOCELL
EWC	ELECTRIC WATER COOLER	P.C.	PLUMBING CONTRACTOR
E.P.O.	EMERGENCY POWER OFF	P	POLE
E-O-L	END-OF-LINE CIRCUIT TERMINATOR.	PVC	POLY VINYL CHLORIDE
EF	EXHAUST FAN	PDU	POWER DISTRIBUTION UNIT
E/G	EQUIPMENT GROUND (GREEN)	PRIMARY	OVER 600 VOLTS
EP	EXPLOSION PROOF	PROVIDE	FURNISH, INSTALL AND CONNECT.
ER*	EXISTING EQUIP. TO BE REOLCATED (* CORRESPONDS TO NEW LOCATION)	PT	POTENTIAL TRANSFORMER
		PA	PUBLIC ADDRESS
ERT*	NEW LOCATION FOR REOLCATED EQUIP (* CORRESPONDS TO PREVIOUS LOCATION)	RECEPT	RECEPTACLE
		REF	REFRIGERATOR
FT or '	FEET	RGS	RIGID GALVANIZED STEEL
FA	FIRE ALARM	RMS	ROOT MEAN SQUARE
FLA	FULL LOAD AMPS	SCC	SHORT CIRCUIT CURRENT
GRD	GROUND	SCS	STRUCTURED CABLING SYSTEM
GFCI	GROUND FAULT CIRCUIT INTERRUPTER.	SFD	SMOKE FIRE DAMPER
GFP	GROUND FAULT PROTECTION	SECONDARY	600 VOLTS AND LESS
GEC	GROUNDING ELECTRODE CONDUCTOR	SMACNA	SHEET METAL & AIR COND. CONTRACTORS' NAT'L ASSOC.
HACR	HEATING AIR CONDITIONING REFRIGERATION	SQ.	SQUARE
HOA	HAND-OFF-AUTO	TC	TIMECLOCK
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	TEL/DATA	TELEPHONE AND DATA
		TV	TELEVISION
H.,W.,D.,L.	HEIGHT, WIDTH, DEPTH, LENGTH	T.V.S.S.	TRANSIENT VOLTAGE SURGE SUPPRESSION
HID	HIGH INTENSITY DISCHARGE		
HP	HORSEPOWER	TYP.	TYPICAL
HPS	HIGH PRESSURE SODIUM	U.G.P.S.	UNDERGROUND PULL SECTION
IN. or "	INCHES	U.O.N.	UNLESS OTHERWISE NOTED
I/G	ISOLATED GROUND	U.P.S.	UNINTERRUPTABLE POWER SYSTEM
IDF	INTERMEDIATE DISTRIBUTION FRAME	VAV	VARIABLE AIR VOLUME
JBOX	JUNCTION BOX	V	VOLTS
K	DEGREE KELVIN	VA	VOLT AMPERES
KCMIL	THOUSAND CIRCULAR MILS	VD	VOLTAGE DROP
KVA	KILOVOLT AMPERES	WP	WEATHERPROOF
KW	KILOWATT	W	WIRE
KWH	KILOWATT HOUR	XFMR	TRANSFORMER
LCL	LONG CONTINUOUS LOAD	XX	EXISTING EQUIP. TO BE DEMO'D
L.F.	LINEAR FEET		

GENERAL NOTES (cont)

34. ALL EXISTING SITE RELATED ELECTRICAL EQUIPMENT (I.E. UNDERGROUND UTILITIES, DUCTS, STRUCTURES, PULL BOXES, ETC.) LOCATIONS ARE DIAGRAMMATIC IN NATURE AND ONLY REFLECT APPROXIMATE LOCATIONS, QUANTITIES, AND/OR ROUTING INFORMATION. ALL REFERENCED INFORMATION HAS EITHER BEEN SURVEYED, REPORTED BY THE OWNER/ OWNERS REP, AND/OR REFERENCED ON AN AS-BUILT RECORD DOCUMENTS. ALL EXISTING ELECTRICAL EQUIPMENT REFERENCE D ON THESE DRAWINGS IS TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF BY ACCEPTING THESE PLANS OR PROCEEDING WITH ELECTRICAL SCOPE OF WORK, AGREES TO ACCEPT LIABILITY AND SHALL RENDER THE ENGINEER OF RECORD HARMLESS FOR ANY ELECTRICAL EQUIPMENT NOT REPORTED TO THE ENGINEER DURING THE DESIGN PROCESS. THE CONTRACT TO TAKE THE REQUIRED PRECAUTIONARY MEASURES TO ENSURE ALL EXISTING ELECTRICAL EQUIPMENT IS PROTECTED IN PLACE.

35. ANY EXISTING BUILDING STRUCTURES OR SURFACES DAMAGED BY DEMOLITION OR DURING INSTALLATION ACTIVITIES SHALL BE REPAIRED, PATCHED, AND/OR REFINISHED TO THE SATISFACTION OF THE OWNER AND DSA.

36. ALL EXISTING ELECTRICAL EQUIPMENT INDICATED TO BE DEMOLISHED SHALL BE REMOVED ENTIRELY AND ALL AFFECTED SURFACES OR STRUCTURES SHALL BE REPAIRED, REPLACED, AND/OR REFINISHED TO MATCH THE ADJACENT SURFACES OR DAMAGED ITEM(S).

37. FOR CLARITY ONLY RECONSTRUCTION OR NEW WORK RELATED ELEMENTS AND SELECT EXISTING FACILITIES SPECIFICALLY REQUIRING COORDINATION WITH ANY NEW WORK.

38. ALL CONDUITS, BOXES, SURFACE MOUNTED RACEWAYS, SUPPORT DEVICES, AND ASSOCIATED FITTINGS SHALL BE MOUNTED IN CONCEALED LOCATIONS ABOVE CEILINGS, DUCTS, TRUSSES, BEAMS, ETC. IN AREAS WHERE A CONCEALED MOUNTING LOCATION IS NOT AVAILABLE EQUIPMENT SHALL BE PAINTED TO MATCH THE ADJACENT SURFACES.

39. ANY PENETRATIONS BY CONDUITS OR OTHER ELECTRICAL EQUIPMENT THROUGH A FIRE RATED WALL - WHETHER EXISTING OR NEW - SHALL MAINTAIN THE APPROPRIATE FIRE RATING BY SEALING THE PENETRATION WITH THE APPROPRIATE UL-LISTED FIRE-STOP MATERIAL/SYSTEM.

40. ELECTRICAL CONTRACTOR SHALL PREPARE AND SUBMIT THE FOLLOWING CALIFORNIA ENERGY COMMISSION T-24 CERTIFICATE OF ACCEPTANCE LTG-1-1, PARTS 1, 2, & 3; LIGHTING CONTROL LTG-2-A; AND/OR AUTOMATIC DAYLIGHTING CONTROL LTG-3-A, AS THEY APPLY TO THE BUILDING DEPARTMENT PRIOR TO ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.

41. LEED COMMISSIONING NOTE: ELECTRICAL CONTRACTOR TO COORDINATE AND PROVIDE ASSISTANCE FOR COMPLETE COMMISSIONING OF ALL SYSTEMS IDENTIFIED IN COMMISSIONING AGENT'S DOCUMENTS, INCLUDING BUT NOT LIMITED TO LIGHTING CONTROLS, ELECTRONIC METERING, ETC.

LIGHTING SYMBOLS

DECORATIVE PENDANT.

SURFACE MOUNTED FLUORESCENT STRIP LIGHTING FIXTURE. "EM" AND/OR SHADED CONNECTION POINT INDICATES FIXTURE WITH EMERGENCY BATTERY PACK (MINIMUM 1100 LUMEN OUTPUT). "NL" INDICATES FIXTURE ON NIGHT LIGHT CIRCUIT.

CHAIN HUNG FLUORESCENT STRIP LIGHTING FIXTURE. MOUNTING HEIGHT TO BE AS INDICATED ON FIXTURE SCHEDULE. "EM" AND/OR SHADED CONNECTION POINT INDICATES FIXTURE WITH EMERGENCY BATTERY PACK (MINIMUM 1100 LUMEN OUTPUT). "NL" INDICATES FIXTURE ON NIGHT LIGHT CIRCUIT.

DECORATIVE SURFACE MOUNTED FLUORESCENT LIGHTING FIXTURE.

SURFACE MOUNTED FLUORESCENT WRAPAROUND TYPE LIGHTING FIXTURE. "NL" INDICATES FIXTURE ON NIGHT LIGHT CIRCUIT.

RECESSED FLUORESCENT LIGHTING FIXTURE. "NL" INDICATES FIXTURE ON NIGHT LIGHT CIRCUIT.

RECESSED DIRECT/ INDIRECT LIGHT FIXTURE.

RECESSED LINEAR LED/ FLUORESCENT LIGHTING FIXTURE. "NL" INDICATES FIXTURE ON NIGHT LIGHT CIRCUIT.

PENDANT LINEAR LED/ FLUORESCENT LIGHTING FIXTURE. "NL" INDICATES FIXTURE ON NIGHT LIGHT CIRCUIT.

RECESSED LINEAR LED/ FLUORESCENT ASYMMETRICAL LIGHTING FIXTURE. "NL" INDICATES FIXTURE ON NIGHT LIGHT CIRCUIT.

RECESSED OR SURFACED MOUNTED DOWN LIGHTING FIXTURE. "NL" INDICATES FIXTURE ON NIGHT LIGHT CIRCUIT.

RECESSED WALLWASHER LIGHTING FIXTURE.

RECESSED ADJUSTABLE WALLWASHER LIGHTING FIXTURE.

SURFACE MOUNTED DOWNLIGHT.

WALL MOUNTED LIGHTING FIXTURE.

SINGLE OR TWO CKT. LIGHTING TRACK AS SPEC'D IN LTG. FIXTURE SCHEDULE.

SURFACE MOUNTED ADJUSTABLE LINEAR WALLWASHER.

CONCEALED LINEAR LIGHT STRIP.

CONCEALED LIGHT STRIP.

RECESSED MULTI-LAMP ADJUSTABLE DOWNLIGHT.

WALL STEP LIGHTING FIXTURE.

BOLLARD TYPE LIGHTING FIXTURE. PROVIDE CONCRETE FOOTING PER MFGRS. REQUIREMENTS.

LANDSCAPE FLOOD LIGHTING FIXTURE.

POLE MOUNTED H.I.D. LIGHTING FIXTURE.

ILLUMINATED EXIT SIGN WITH NUMBER OF FACES AND DIRECTION OF EGRESS ARROWS AS INDICATED.

LOW LEVEL EXIT SIGN AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE.

EGRESS EMERGENCY BATTERY PACK LIGHT FIXTURE (BUGEYE).

"EM" AND/OR SHADED CONNECTION POINT INDICATES FIXTURE WITH EMERGENCY BATTERY PACK (MINIMUM 1100 LUMEN OUTPUT) OR FIXTURE ON EMERGENCY INVERTER.

OCCUPANCY SENSORS

WALL MOUNTED INFRA-RED OCCUPANCY SENSOR. LETTERS "ab" INDICATES DUAL RELAY SENSOR. MOUNTING HEIGHT PER ADA MOUNTING DETAIL THIS SHEET - UON OR REQUIRED.

WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR. LETTERS "ab" INDICATES DUAL RELAY SENSOR. LETTER "D" INDICATES DIMMING CONTROL. MOUNTING HEIGHT PER ADA MOUNTING DETAIL THIS SHEET - UON OR REQUIRED.

VACANCY SENSOR (MANUAL ON), MOUNTING HEIGHT PER ADA MOUNTING DETAIL THIS SHEET - UON OR REQUIRED. LETTERS "ab" INDICATES DUAL RELAY SENSOR. BOTH SWITCH LEGS TO BE CONFIGURED IN A "MANUAL ON" CONFIGURATION.

WALL MOUNTED ULTRASONIC OCCUPANCY SENSOR. LETTERS "ab" INDICATES DUAL RELAY SENSOR. MOUNTING HEIGHT PER ADA MOUNTING DETAIL THIS SHEET - UON OR REQUIRED.

CEILING MOUNTED OCCUPANCY SENSOR. "m" INDICATES SENSOR WITH POWER PACK AND HVAC CONTROL RELAY. "s" INDICATES SATELLITE SENSOR.

AUTOMATIC CONTINUOUS DIMMING DAYLIGHTING CONTROLLER USED TO DIM LIGHTS WHEN SUFFICIENT NATURAL LIGHT IS PRESENT. NUMBER IN PARENTHESIS INDICATES THE AVERAGE WORKPLANE "TARGET ILLUMINATION" SYMBOL VALUE. ADJACENT LOWER CASE LETTERS "x" INDICATES SWITCH LEG(S) CONTROLLED.

CEILING MOUNTED COMBINATION OCCUPANCY SENSOR AND PHOTOCELL

LOW VOLTAGE (LV) WIRING BETWEEN OCCUPANCY, DAYLIGHT SENSORS, AND/OR LV SWITCHES. QUANTITY AND SPECIFICATIONS OF WIRE PER MANUFACTURER REQUIREMENTS.

FLOOR BOX / SPECIALTY WALL BOX SYMBOLS

SINGLE SERVICE IN FLOOR BOX. PROVIDE DEVICES PER PLAN. SEE FLOOR BOX DETAILS AND SPECIFICATIONS FOR MORE INFORMATION.

TWO SERVICE IN FLOOR BOX. PROVIDE DEVICES PER PLAN. SEE FLOOR BOX DETAILS AND SPECIFICATIONS FOR MORE INFORMATION.

THREE SERVICE IN FLOOR BOX. PROVIDE DEVICES PER PLAN. SEE FLOOR BOX DETAILS AND SPECIFICATIONS FOR MORE INFORMATION.

RECESSED FLAT PANEL TV/DISPLAY WALL BOX WITH FLUSH

LOW VOLTAGE GENERAL NOTES

1. CONDUITS SHALL, (a) CONTAIN NO CONTINUOUS SECTIONS LONGER THAN 30M (98 FT.), AND, (b) CONTAIN NO MORE THAN (2) 90° BENDS OR (1) REVERSE BEND WITHOUT INSTALLING A PULLBOX. CONDUITS IN PLACE OF PULLBOXES ARE UNACCEPTABLE.
2. CONDUITS SHALL CONTAIN PLASTIC OR NYLON PULL TAPE RATED AT 200 LBS. WITH A MINIMUM OF 5 FEET OF EXTRA PULL TAPE COILED AT EACH END.
3. CONDUIT BEND RADIUS SHALL BE (a) A MINIMUM OF 6 TIMES THE INTERNAL CONDUIT DIAMETER FOR CONDUITS 2" IN DIAMETER OR LESS, AND, (b) 10 TIMES THE INTERNAL CONDUIT DIAMETER FOR CONDUITS MORE THAN 2" IN DIAMETER.
4. TERMINATE CONDUITS AND SLEEVES THAT PROTRUDE THROUGH STRUCTURAL FLOORS 2"-3" ABOVE THE FLOOR SURFACE.
5. INSTALL BUSHINGS AND BELL ENDS AS REQUIRED ON ALL CONDUITS.
6. FLEX CONDUIT IS GENERALLY UNACCEPTABLE FOR USE AS A COMMUNICATIONS CONDUIT EXCEPT AT SEISMIC JOINTS AND AS APPROVED IN WRITING BY THE ENGINEER.
7. ALL UNDER SLAB OR IN-SLAB CONDUITS SHALL BE INSTALLED IN A MANNER THAT PREVENTS WATER INFILTRATION OF THE CONDUIT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE GROUND WATER, RAIN WATER OR CONSTRUCTION WATER IS PREVENTED FROM ENTERING AND/OR REMOVED FROM THE CONDUITS PRIOR TO PLACEMENT OF COMMUNICATIONS CABLES. SEE SITE UTILITY PLAN NOTES FOR ADDITIONAL UNDERGROUND COMMUNICATIONS CONDUIT SEALING REQUIREMENTS.

   ALL PULLBOXES SHALL BE SIZED AND INSTALLED PER ANSI/TIA/EIA-569B. PULLBOXES FOR UNDER FLOOR CONDUIT RUNS ARE NOT PERMITTED UNLESS OTHERWISE NOTED. PULLBOXES FOR OVERHEAD CONDUIT RUNS SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS WITHIN THE ACCESSIBLE CEILING SPACE AND SUPPORTED INDEPENDENTLY FROM THE STRUCTURE AND CONDUIT SUPPORTS. PULLBOXES FOR ROOF MOUNTED OR EXTERIOR ABOVE GRADE APPLICATIONS SHALL BE NEMA 3 RATED. PULLBOXES SHALL BE SIZED ACCORDING TO THE FOLLOWING:

8.

CONDUIT SIZE	WIDTH	LENGTH	DEPTH	WIDTH INCREASE PER ADDITIONAL CONDUIT
1"	4"	16"	3"	2"
2"	8"	36"	4"	5"
3"	12"	48"	5"	6"
4"	15"	60"	8"	8"

   FOR OTHER CONDUIT SIZES REFER TO ANSI/TIA/EIA 569B TABLE 12. - LATEST PUBLISHED EDITION.

9. CONDUIT(S) SHALL EXIT A PULLBOX ON THE WALL OPPOSITE THE WALL ENTERED.
10. PROVIDE LABELING OF EACH CONDUIT PER GENERAL ELECTRICAL SPECIFICATIONS.
11. PROVIDE INTERNAL/EXTERNAL GAS AND WATER TIGHT MECHANICAL SEALING/PLUGGING OF EACH BUILDING ENTRY CONDUIT AS SPECIFIED ELSEWHERE IN THE DRAWINGS AND SPECIFICATIONS.
12. COORDINATE ALL MOUNTING DIMENSIONS FOR ELECTRICAL DEVICES AND SWITCHES WITH ARCHITECTURAL INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.
13. COORDINATE ALL PENETRATIONS WITH STRUCTURAL PLANS AND DETAILS. NO PENETRATIONS ARE PERMITTED UNLESS SPECIFICALLY NOTED ON STRUCTURAL DRAWINGS.

CITY OF RANCHO CUCAMONGA
BUILDING & SAFETY DEPARTMENT
APPROVED
By: RJ for Zack Neighbors Date: Jan 24, 2024
Note: All contractors and subcontractors are required to obtain approval from the Business License Division before scheduling a final inspection.

LIGHTING GENERAL NOTES

1. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION & ELEVATION OF ALL LIGHTING FIXTURES AND ALL DEVICES. ALL WALL-MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO ROUGH-IN.
2. VERIFY EXACT CEILING CONSTRUCTION WITH ARCHITECTURAL REFLECTED CEILING PLAN AND PROVIDE LIGHTING FIXTURES WITH ALL NECESSARY MOUNTING HARDWARE.
3. ALL RECESSED FIXTURES SHALL BE PROVIDED WITH ALL REQUIRED STRUCTURAL SUPPORTS AS REQUIRED BY THE CURRENTLY ADOPTED ISSUE OF THE UNIFORM BUILDING CODE, AS WELL AS ANY LOCAL CODES.
4. ALL COVE MOUNTED FIXTURES SHALL EXTEND THE FULL LENGTH OF THE COVE. CONTRACTOR TO FIELD MEASURE COVE LENGTH AND ORDER QUANTITY OF FIXTURES AS REQUIRED.
5. ALL DIMMING BRANCH CIRCUITS SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR FOR EACH ZONE/CHANNEL.
6. ALL FLUORESCENT DIMMING ZONES/CHANNELS SHALL BE PROVIDED WITH 3 LINE VOLTAGE CONDUCTORS (NEUTRAL, DIMMED HOT, SWITCHED HOT) OR 2 LINE VOLTAGE CONDUCTORS/2 CONTROL CONDUCTORS AS REQUIRED BY THE CONTROL/BALLAST TYPE.
7. ALL EMERGENCY BATTERY PACK FIXTURES SHALL BE PROVIDED WITH A CONSTANT HOT CONNECTION TO THE CHARGING LEAD. SEE GENERAL LIGHTING FIXTURE SCHEDULE NOTES FOR MORE INFORMATION.
8. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXIT SIGN CHEVRONS AND NUMBER OF FACES PER EXIT SIGN. ANY DISCREPANCIES BETWEEN EXIT SIGNS SHOWN ON THE ELECTRICAL AND ARCHITECTURAL PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ORDERING EXIT SIGNS.
9. WHEN EXPOSED CEILINGS OR OPEN GRID CONDITIONS OCCUR, THE CONTRACTOR WILL NEED TO PROVIDE THE FOLLOWING ITEMS:

   - ALL BRANCH CIRCUITS SHALL BE IN EMT.

   - ALL BRANCH CIRCUITS SHALL BE ROUTED NEATLY TRAINED AND IN PARALLEL TO STRUCTURES OR DUCT WORK. THE TERM "TRAINED" MEANS ALL PARALLEL CONDUITS SHALL MAINTAIN THE SAME SPATIAL RELATIONSHIP WITH EACH OTHER FOR ENTIRE RUN TO INCLUDE RADIUS BENDS AND SWEEPS.

   VISUALLY OBJECTIONABLE BRANCH CIRCUITS WILL BE REROUTED AT THE REQUEST OF THE ARCHITECT AT NO ADDITIONAL COST.
10. ALL LED REMOTE INDICATORS FOR DUCT DETECTORS AND FIRE/SMOKE DAMPERS REQUIRED BY THE LOCAL AHJ SHALL BE LOCATED IN CEILINGS IN COORDINATION WITH ARCHITECT PRIOR TO ANY ROUGH-IN.
11. RECESSED FIXTURES LOCATED IN A FIRE-RATED CEILING OR WALL SHALL BE PROVIDED WITH A 5-SIDED RATED ENCLOSURE SO CONSTRUCTED AS TO ALLOW CODE AND MANUFACTURER-REQUIRED CLEARANCES BETWEEN THE FIXTURE AND THE ENCLOSURE.
12. REFER TO GENERAL POWER PLAN NOTES AND COMMUNICATIONS PATHWAYS GENERAL NOTES FOR ADDITIONAL REQUIREMENTS WHEN POWER AND/OR DATA DEVICES ARE SHOWN ON THIS PLAN.
13. CONTRACTOR TO INCLUDE AN ALLOWANCE TO CORE AND SEAL PENETRATIONS THROUGH STRUCTURAL CONCRETE WALLS. COORDINATE LOCATIONS AND REQUIREMENTS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
14. COORDINATE ALL PENETRATIONS WITH STRUCTURAL PLANS AND DETAILS. NO PENETRATIONS ARE PERMITTED UNLESS SPECIFICALLY NOTED ON STRUCTURAL DRAWINGS.

POWER GENERAL NOTES

1. ALL RECEPTACLES ON COMMON WALLS SHALL BE SEPARATE BOXES AND OFFSET 24" MINIMUM.
2. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRESTOP SYSTEM EQUAL OR GREATER THAN THE FIRE RATING OF THE WALL.
3. COORDINATE ALL MOUNTING DIMENSIONS FOR ELECTRICAL DEVICES AND SWITCHES WITH ARCHITECTURAL INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.
4. ALL FURNITURE FEED LOCATIONS TO BE VERIFIED WITH ARCHITECT AND FURNITURE VENDOR PRIOR TO ROUGH IN.
5. ALL FURNITURE WHIPS SHALL BE TRIMMED TO REDUCE EXCESS WHIP LENGTH.
6. WHEN EXPOSED CEILINGS OR OPEN GRID CONDITIONS OCCUR, THE CONTRACTOR WILL NEED TO PROVIDE THE FOLLOWING ITEMS:

   - ALL BRANCH CIRCUITS SHALL BE IN EMT.
   - ALL BRANCH CIRCUITS SHALL BE ROUTED NEATLY AND IN PARALLEL TO STRUCTURES OR DUCT WORK.

   VISUALLY OBJECTIONABLE BRANCH CIRCUITS WILL BE REROUTED AT THE REQUEST OF THE ARCHITECT AT NO ADDITIONAL COST.
7. EXPOSED CABLE/CONDUCTORS INSTALLED IN A PLENUM SPACE SHALL CONFORM TO CEC, ARTICLE 300.22(C).
8. PROVIDE G.F.C.I. TYPE RECEPTACLE(S) WITHIN 6 FEET OF ANY SINK.
9. CONTRACTOR TO INCLUDE AN ALLOWANCE TO CORE AND SEAL PENETRATIONS THROUGH STRUCTURAL CONCRETE WALLS. COORDINATE LOCATIONS AND REQUIREMENTS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
10. COORDINATE ALL PENETRATIONS WITH STRUCTURAL PLANS AND DETAILS. NO PENETRATIONS ARE PERMITTED UNLESS SPECIFICALLY NOTED ON STRUCTURAL DRAWINGS.
11. COORDINATE ALL KITCHEN CONDUIT AND EQUIPMENT ROUGH-IN ON KITCHEN DRAWINGS.

ROOF GENERAL NOTES

1. ELECTRICAL CONTRACTOR SHALL REFER TO MECHANICAL/PLUMBING AND ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND CHARACTERISTICS OF ALL EQUIPMENT LISTED IN SCHEDULE. ANY MODIFICATIONS AND/OR ADDITIONAL WORK NECESSARY SHALL BE INCLUDED IN THE BASE BID.
2. ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL CONNECTION POINTS WITH THE EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE LOCAL REMOTE DISCONNECTING MEANS FOR ALL ELECTRIC HEATING EQUIPMENT IF REQUIRED BY THE LOCAL ELECTRICAL CODE.
4. ELECTRICAL CONTRACTOR SHALL COORDINATE THE ROUTING OF CONDUIT/WIRING TO ROOF-MOUNTED EQUIPMENT WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN. WHERE ROOF-MOUNTED EQUIPMENT IS MANUFACTURED TO BE FED FROM WITHIN MECHANICAL CURB ASSEMBLY - SEPARATE ROOF PENETRATIONS FOR WIRING CONNECTIONS SHALL NOT BE PERMITTED. ALL WIRING SHALL BE BELOW THE ROOF IN AN ACCESSIBLE CEILING SPACE LOCATION.
5. ALL ROOF MOUNTED EQUIPMENT SHALL BE NEMA 3R RATED.

DEMOLITION NOTES

1. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. DO NOT SCALE THE ELECTRICAL DRAWINGS TO DETERMINE THE LOCATION OF EQUIPMENT OR OUTLETS. SEE ARCHITECTURAL PLANS, WHERE PROVIDED ON PROJECT, FOR EXTENT OF DEMOLITION.
2. THE EXISTING CONDITIONS SHOWN ARE FROM AVAILABLE RECORD DRAWINGS AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITIONS AT SITE PRIOR TO SUBMITTING BID. ALL DEMOLITION, ALTERATION, EXTENSION, RELOCATION, REHABILITATION WORK SHALL BE INCLUDED IN CONTRACT. NO ADDITIONAL ALLOWANCE OR CHANGE ORDERS WILL BE ACCEPTED.
3. CONTRACTOR IS RESPONSIBLE TO RELOCATE OR REMOVE FROM WALLS, CEILINGS, FLOOR SPACES, ETC. ANY EXISTING CONDUITS, WIRES, BOXES, FITTINGS, FIXTURES OR OTHER ELECTRICAL EQUIPMENT WHICH INTERFERES WITH PLANNED REMODEL WORK. PROVIDE CIRCUIT CONTINUATION REQUIRED FOR ALL EXISTING OUTLETS, FIXTURES, EQUIPMENT, ETC. SCHEDULED TO REMAIN.
4. NOTIFY THE ENGINEER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, OR NOT INDICATED ON "AS-BUILT" DRAWINGS OR WAS BURIED UNDERGROUND OR EMBEDDED IN STRUCTURE WALLS.
5. CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT, UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE SMALLER AREA IF POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.
6. EQUIPMENT, MATERIALS AND SUPPLIES TEMPORARILY REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.
7. DEMOLITION WORK SHALL BE DONE IN A MANNER WHICH WILL NOT CAUSE UNNECESSARY INCONVENIENCE OR DANGER TO USERS OF THE PREMISES AND ADJACENT SITE, AND NOT INTERFERE WITH ITS OPERATION. ANY DEMOLITION WORK TO BE PERFORMED MUST BE PLANNED IN ADVANCE.
8. DO ALL DRILLING, CUTTING, ETC. REQUIRED TO DEMOLISH ELECTRICAL WORK AS INDICATED OR PROVIDE BLANK COVER PLATE ON ALL OUTLETS EXPOSED BY REMOVAL OF FIXTURE OF DEVICES.
9. RESEAL ALL PENETRATIONS OR OPENING THROUGH WALLS, CEILING, FLOORS, ETC., TO MAINTAIN THE RATING OF STRUCTURE.
10. CONTRACTOR SHALL VERIFY EXISTING CONDUIT/CONDUCTOR RUNS ON CIVIL DEMOLITION PLAN, SHEET C1.1. REUSE AS REQUIRED AND REMOVE ALL UNUSED CONDUIT/CONDUCTORS. REMOVE CONDUIT BACK TO SCOPE OF WORK LIMIT LINE. AT EACH END OF FEEDER, TAG AND LABEL CONDUIT. DOCUMENT DETAILED DIMENSIONS ON AS-BUILTS. REMOVE CONDUCTORS BACK TO SOURCE (VERIFY WITH OWNER). UNUSED CONDUIT IN INACCESSIBLE LOCATIONS (WALLS TO REMAIN) CAN BE ABANDONED IN PLACE.
11. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDUIT/WIRING RUNS, REUSE AS REQUIRE AND REMOVED ALL UNUSED CONDUIT/WIRING. UNUSED CONDUIT IN INACCESSIBLE LOCATIONS (WALLS TO REMAIN) CAN BE ABANDONED IN PLACE. REMOVE UNUSED WIRING.
12. CONTRACTOR TO VERIFY CIRCUIT NUMBER AND LOADS FOR ALL EXISTING EQUIPMENT PRIOR TO INSTALLATION OF NEW OR RELOCATED ELECTRICAL EQUIPMENT. REASSIGN CIRCUITS AND LOADS ACCORDINGLY. PROVIDE COMPLETE "AS BUILT" DRAWINGS AND TYPEWRITTEN DIRECTORIES FOR PANELS.
13. WHERE NECESSARY TO SHUT OFF UTILITY SERVICES OR CAUSE INTERRUPTION TO POWER OR SIGNAL SYSTEMS WHILE A BUILDING IS OCCUPIED OR THAT EFFECT ADJACENT BUILDINGS, SCHEDULE OUTAGES OR INTERRUPTIONS WITH THE OWNER, BUILDING OCCUPANTS AND/OR ADJACENT BUILDING OWNER(S) AND OCCUPANTS PRIOR TO CONDUCTING OUTAGE(S) OR INTERRUPTIONS.

GENERAL NOTES (con't)

30. EC TO PROVIDE ALL CONDUIT ONLY (C.O.) INFRASTRUCTURE WITH A 3/16" NYLON PULL ROPE. LABEL PULL ROPE AT EACH END WITH THE LOCATIONS OF ORIGIN AND TERMINATION.
31. IN INSTANCES WHERE A CONFLICT BETWEEN THE ELECTRICAL DRAWINGS AND THE SPECIFICATIONS FOR THE PROJECT EXISTS, THE EC SHALL ADHERE TO THE MORE STRINGENT REQUIREMENT.
32. THE SEISMIC ANCHORAGE OF ELECTRICAL EQUIPMENT SHALL CONFORM TO C.C.R. TITLE 24, 2010 CBC SECTION 1615A AND ASCE7-05 SECTION 13.3 THRU 13.6. ANCHORAGE DETAILS NOT SHOWN ON THE APPROVED PLANS OR OTHERWISE APPROVED BY DSA ARE SUBJECT TO FIELD APPROVAL BY THE ARCHITECT AND/OR STRUCTURAL ENGINEER OF RECORD AND DSA.
33. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. AS SUCH, ALL ELECTRICAL EQUIPMENT LOCATIONS, CONDUIT ROUTING, ETC. ARE NOT PRECISE AND SHALL BE COORDINATED, VERIFIED, AND DETERMINED IN THE FIELD. EC TO INSTALL ALL ELECTRICAL EQUIPMENT AND ROUTE ALL CONDUITS IN LOCATIONS WHICH MEET CODE REQUIREMENTS FOR ACCESSIBILITY/MOUNTING AND DO NOT INTERFERE WITH ANY BUILDING STRUCTURES, UTILITIES, OR OTHER TRADE EQUIPMENT.
34. ALL EXISTING SITE RELATED ELECTRICAL EQUIPMENT (I.E. UNDERGROUND UTILITIES, DUCTS, STRUCTURES, PULL BOXES, ETC.) LOCATIONS ARE DIAGRAMMATIC IN NATURE AND ONLY REFLECT APPROXIMATE LOCATIONS, QUANTITIES, AND/OR ROUTING INFORMATION. ALL REFERENCED INFORMATION HAS EITHER BEEN SURVEYED, REPORTED BY THE OWNER/ OWNERS REP, AND/OR REFERENCED ON AN AS-BUILT RECORD DOCUMENTS. ALL EXISTING ELECTRICAL EQUIPMENT REFERENCE D ON THESE DRAWINGS IS TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF BY ACCEPTING THESE PLANS OR PROCEEDING WITH ELECTRICAL SCOPE OF WORK, AGREES TO ACCEPT LIABILITY AND SHALL RENDER THE ENGINEER OF RECORD HARMLESS FOR ANY ELECTRICAL EQUIPMENT NOT REPORTED TO THE ENGINEER DURING THE DESIGN PROCESS. THE CONTRACT TO TAKE THE REQUIRED PRECAUTIONARY MEASURES TO ENSURE ALL EXISTING ELECTRICAL EQUIPMENT IS PROTECTED IN PLACE.
35. ANY EXISTING BUILDING STRUCTURES OR SURFACES DAMAGED BY DEMOLITION OR DURING INSTALLATION ACTIVITIES SHALL BE REPAIRED, PATCHED, AND/OR REFINISHED TO THE SATISFACTION OF THE OWNER AND DSA.
36. ALL EXISTING ELECTRICAL EQUIPMENT INDICATED TO BE DEMOLISHED SHALL BE REMOVED ENTIRELY AND ALL AFFECTED SURFACES OR STRUCTURES SHALL BE REPAIRED, REPLACED, AND/OR REFINISHED TO MATCH THE ADJACENT SURFACES OR DAMAGED ITEM(S).
37. FOR CLARITY ONLY RECONSTRUCTION OR NEW WORK RELATED ELEMENTS AND SELECT EXISTING FACILITIES SPECIFICALLY REQUIRING COORDINATION WITH ANY NEW WORK.
38. ALL CONDUITS, BOXES, SURFACE MOUNTED RACEWAYS, SUPPORT DEVICES, AND ASSOCIATED FITTINGS SHALL BE MOUNTED IN CONCEALED LOCATIONS ABOVE CEILINGS, DUCTS, TRUSSES, BEAMS, ETC. IN AREAS WHERE A CONCEALED MOUNTING LOCATION IS NOT AVAILABLE EQUIPMENT SHALL BE PAINTED TO MATCH THE ADJACENT SURFACES.
39. ANY PENETRATIONS BY CONDUITS OR OTHER ELECTRICAL EQUIPMENT THROUGH A FIRE RATED WALL - WHETHER EXISTING OR NEW - SHALL MAINTAIN THE APPROPRIATE FIRE RATING BY SEALING THE PENETRATION WITH THE APPROPRIATE UL-LISTED FIRE-STOP MATERIAL/SYSTEM.
40. ELECTRICAL CONTRACTOR SHALL PREPARE AND SUBMIT THE FOLLOWING CALIFORNIA ENERGY COMMISSION T-24 CERTIFICATE OF ACCEPTANCE LTG-1-1, PARTS 1, 2, & 3; LIGHTING CONTROL LTG-2-A; AND/OR AUTOMATIC DAYLIGHTING CONTROL LTG-3-A, AS THEY APPLY TO THE BUILDING DEPARTMENT PRIOR TO ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.
41. LEED COMMISSIONING NOTE: ELECTRICAL CONTRACTOR TO COORDINATE AND PROVIDE ASSISTANCE FOR COMPLETE COMMISSIONING OF ALL SYSTEMS IDENTIFIED IN COMMISSIONING AGENT'S DOCUMENTS, INCLUDING BUT NOT LIMITED TO LIGHTING CONTROLS, ELECTRONIC METERING, ETC.

SITE PLAN GENERAL NOTES

1. ALL INFORMATION REFERENCED IS PRELIMINARY IN NATURE AND DOES NOT REPRESENT FINAL DESIGN DOCUMENTS. ALL INFORMATION AND REQUIREMENTS RELATIVE TO UTILITY INFRASTRUCTURE SHALL BE COORDINATED, VERIFIED, AND INSTALLED PER FINAL UTILITY COMPANY DESIGN DOCUMENTS.
2. ROUTING OF ALL CONDUIT SHALL BE COORDINATED IN THE FIELD AND CONFIRMED BY ENGINEER AND ARCHITECT.
3. COORDINATE ALL CONDUIT ROUTING, ELECTRICAL DEVICE LOCATIONS, PULL BOX LOCATIONS, ETC. WITH LANDSCAPE PLANTING PLANS TO AVOID CONFLICTS WITH TREES, SHRUBS, ETC.
4. ALL CONDUCTOR AND CABLE RUNS ARE TO BE CONTINUOUS. NO CONDUCTORS OR LOW VOLTAGE CABLING TO BE INSTALLED AS PART OF INCREMENT ONE. ALL CONDUCTORS AND LOW VOLTAGE CABLING TO BE INSTALLED AS PART OF INCREMENT TWO AND TERMINATED INSIDE OF THE BUILDING.
5. ALL CONDUIT SHALL BE PROVIDED WITH PROPERLY SIZED PULL STRING PER UTILITY COMPANY STANDARDS.
6. ALL EQUIPMENT MOUNTED OUTDOORS SHALL BE INSTALLED IN A WEATHERPROOF NEMA 3R ENCLOSURE.
7. SEE ARCHITECTURAL/LANDSCAPE ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF FIXTURES, PULLBOXES, MANHOLES, OTHER ELECTRICAL DEVICES, ETC. COORDINATE ALL UNDERGROUND STRUCTURES AND CONDUIT ROUTING WITH LANDSCAPE ARCHITECT PRIOR TO ROUGH-IN TO ENSURE THAT SUCH ITEMS ARE NOT PLACED IN CRITICAL LANDSCAPE PLANTING/HARDSCAPE AREAS.
8. PROVIDE CONCRETE ENCASEMENT FOR ALL TRENCHES WITH MORE THAN THREE (3) CONDUITS. ENCASE PER UTILITY COMPANY REQUIREMENTS.
9. CONTRACTOR TO ABANDON BUT NOT DEMOLISH ALL CONDUITS IN FAIRMONT.

SITE UTILITY PLAN GENERAL NOTES

THESE NOTES ESTABLISH MINIMUM QUALITY LEVELS AND COORDINATION REQUIREMENTS. RESPECTIVE UTILITY COMPANY PLANS AND REQUIREMENTS TAKE PRECEDENCE OVER THESE NOTES WITH REGARD TO RESPECTIVE UTILITY COMPANY CONDUIT AND UNDERGROUND STRUCTURE SYSTEMS.

1. CALL UNDERGROUND SERVICE ALERT (USA) AT 1 (800) 422-4133 OR APPLICABLE STATE AND LOCAL DIG SAFE OR UNDERGROUND ALERT HOTLINES PRIOR TO CONSTRUCTION START.
2. COORDINATE ALL UNDERGROUND STRUCTURES AND CONDUIT ROUTING WITH LANDSCAPE ARCHITECT PRIOR TO ROUGH-IN TO ENSURE THAT SUCH ITEMS ARE NOT PLACED IN CRITICAL LANDSCAPE PLANTING/HARDSCAPE AREAS.
3. VAULTS, MAINTENANCE HOLES (MH's) AND CONDUITS SHALL MAINTAIN A MINIMUM COVER OF 24" BELOW FINAL SURFACE AT ALL CONDITIONS. INCLUDE ALL COSTS IN BASE BID TO MEET UTILITY COMPANY REQUIREMENTS WHICH MAY REQUIRE GREATER MINIMUM CONDUIT DEPTHS.
4. VAULTS, MH's AND PULLBOXES (PB's) SHALL BE EQUIPPED WITH KNOCKOUT PANELS OR PRE-CAST INDIVIDUAL CONDUIT OPENINGS. CONDUITS SHALL ONLY ENTER AND EXIT ON END/SHORT WALLS. CONDUITS MAY NOT ENTER AND EXIT ON SIDE/LONG WALLS, CEILINGS OR FLOORS UNLESS OTHERWISE NOTED.
5. CUT DUCTS FLUSH WITH INTERIOR VAULT/MH/PB WALL.
6. GROUT AROUND DUCT ENTRANCES ON VAULT/MH/PB WALLS.
7. SLURRY BACKFILL AROUND DUCTS WITHIN 5 FEET OF VAULT/MH/PB TO PREVENT SHEARING.
8. CONDUITS PASSING UNDER THE BUILDING PERIMETER SHALL BE ENCASED IN LIGHTWEIGHT CONCRETE OR WATER-IMPERVIOUS CLAY TO PREVENT WATER INFILTRATION. SEE ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. CONDUIT BEND RADIUS FOR BUILDING ENTRANCES AND AT POLES SHALL BE A MINIMUM OF 24" FOR CONDUITS WITH LESS THAN 2" INTERNAL DIAMETER AND A MINIMUM OF 48" FOR CONDUITS WITH MORE THAN 2" INTERNAL DIAMETER.
10. PREFERRED CONDUIT SWEEP RADIUS BETWEEN VAULTS IS 25 FEET. UNDER NO CIRCUMSTANCES SHALL THE CONDUIT SWEEP RADIUS BE LESS THAN 12.5 FEET. MAXIMUM OF 90 DEGREES PER SWEEP AND LIMITED TO NO MORE THAN (2) 90 DEGREE SWEEPS BETWEEN VAULTS.
11. VAULTS/MH's/PB's ARE TO BE EQUIPPED WITH RACKING, GROUNDING LUGS, AND BOLT-DOWN LIDS UNLESS OTHERWISE NOTED.
12. VAULTS AND MH's TO BE EQUIPPED WITH ROUND COVERS, EXTENSION RINGS AS REQUIRED, LADDERS AND (3) SEGMENTS OF 6 FOOT HIGH CABLE RACKING PER EACH LONG WALL.
13. LABEL ALL NON-UTILITY COMMUNICATION VAULT/MH/PB COVERS WITH "COMMUNICATIONS" UNLESS OTHERWISE NOTED ON PLANS.
14. COORDINATE FINAL VAULT/MH/PB OPENING HEIGHT WITH G.C. PRIOR TO ROUGH-IN TO ENSURE FINAL GRADE DOES NOT SLOPE INTO VAULT/MH/PB OPENING.
15. CONTRACTOR TO PROVIDE A MINIMUM OF 8" DEEP COMPACTED 1/2" DIAMETER GRAVEL, UNDER ALL VAULTS, MH's OR PB's TO ENSURE UNIFORM DISTRIBUTION OF SOIL PRESSURE ON THE FLOOR AND BE ABLE TO DISSIPATE WATER OUT OF THE VAULT, MH OR PB.
16. ALL VAULTS/MH's/PB's WITHOUT GROUNDING LUGS SHALL HAVE AN 8' x 3/4" COPPER GROUND ROD DRIVEN THRU THE FLOOR TO ALLOW GROUNDING OF ITEMS WITHIN.
17. ALL VAULTS/MH's/PB's SHALL BE PROVIDED WITH TRAFFIC RATED COVERS WHEN LOCATED IN PAVED AREAS UTILIZED FOR VEHICLE TRAFFIC.
18. IF THE WATER OR MOISTURE BARRIER ON OR NEAR THE FOUNDATION OF A BUILDING IS DISTURBED IN ANY MANNER BY EXCAVATION OR OTHER CONSTRUCTION WORK. THE MOISTURE BARRIER MUST BE REPAIRED FOLLOWING THE RECOMMENDATIONS OF THE MANUFACTURER OF THE ORIGINAL BARRIER PRODUCT.
19. THE CONTRACTOR SHALL INCLUDE IN BASE BID ALL COSTS TO COMPLY WITH ALL REQUIREMENTS FOR CONFINED SPACE ENTRY PER THE OSHA REQUIREMENTS 29 CFR-1910.146, 29 CFR-1910.268, ETC. DURING ANY CONFINED SPACE ENTRY.
20. ANY DUCTS LEAVING A VAULT, MH OR PB ROUTED INTO A FACILITY SHALL BE PLUGGED AT EACH END USING REMOVEABLE MECHANICAL PLUGS DESIGNED TO PREVENT WATER AND GAS FROM ENTERING THE FACILITY.
21. SEE ELECTRICAL SPECIFICATIONS AND PLAN DETAILS FOR ADDITIONAL REQUIREMENTS REGARDING UNDERGROUND CONDUITS AND IN-GRADE VAULT/MH/PB/JUNCTION BOXES.

GENERAL NOTES:

1. THE ELECTRICAL CONTRACTOR (EC) SHALL INCLUDE AND PROVIDE IN BID ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND OPERATIONAL INSTALLATION OF ALL ELECTRICAL SYSTEMS.
2. EC SHALL COORDINATE AND OBTAIN ALL APPROVALS, PERMITS, AND DOCUMENTS FROM REGULATORY AGENCIES AND UTILITY COMPANIES.
3. ALL CONDUIT RACEWAY SYSTEMS ARE TO BE INSTALLED AS FOLLOWS:
   a. RIGID GALVANIZED STEEL IS TO BE INSTALLED IN ALL AREAS WHICH ARE EXPOSED TO WEATHER AND/OR PHYSICAL DAMAGE.
   b. FLEXIBLE METALLIC CONDUIT (S PERMITTED FOR SHORT CONNECTIONS TO LIGHT FIXTURES (6'-0" MAX). FLEXIBLE CONDUIT SHALL ALSO BE INSTALLED FOR EQUIPMENT REQUIRING VIBRATION ISOLATION AND HORIZONTAL RUNS IN WOODEN STUD WALLS.
   c. ELECTRICAL METALLIC TUBING (EMT) WITH COMPRESSION TYPE FITTINGS SHALL BE USED FOR BUILDING INTERIOR WORK.
   d. PVC CONDUIT SHALL BE USED FOR UNDERGROUND CONDUITS. ROUTE CODE SIZED GROUND WIRE INSIDE OF CONDUIT. CONDUIT RISERS AND STUBS ABOVE GRADE SHALL BE I.M.C. WITH HALF-LAPPED TAPE COVERING OR PVC COATING.
4. UNLESS OTHERWISE NOTED OR REFERENCED ON THE DRAWINGS ALL NEW ELECTRICAL WIRING IS TO BE 600V RATED COPPER WITH TYPE "THHN/THWN" INSULATION.
5. ALL MOUNTING HEIGHTS REFERENCED ON DRAWINGS ARE MEASURED FROM FINISHED FLOOR UNLESS OTHERWISE REFERENCED OR INDICATED ON THE DRAWINGS.
6. ALL ELECTRICAL EQUIPMENT LOCATIONS (LIGHTING, RECEPTACLE, FLOOR BOX, ETC.) ARE TO BE VERIFIED WITH THE ARCHITECT AND/OR EQUIPMENT SUPPLIER PRIOR TO BEGINNING ANY ROUGH-IN.
7. ALL LIGHTING FIXTURES SHALL BE MOUNTED AND SUPPORTED IN ACCORDANCE WITH OSHA STANDARDS, AND ALL STATE, LOCAL, SEISMIC, AND NATIONAL ELECTRIC CODES.

   EQUIPMENT ANCHORAGE NOTE:

   THE ATTACHMENT OF THE FOLLOWING ITEMS SHALL BE DESIGNATED TO RESIST THE FORCES PRESCRIBED ABOVE, BUT NEED NOT BE DETAILED ON THE PLANS, AND THE PROJECT INSPECTOR WILL VERIFY THAT THESE ITEMS (EQUIPMENT) HAVE BEEN ANCHORED:

   A. EQUIPMENT WEIGHING LESS THAN 400 PUNDS AND SUPPORTED DIRECTLY ON THE FLOOR OR ROOF.
   B. FURNITURE REQUIRED TO BE ATTACHED IN ACCORDANCE WITH ASCE 7-10, SECTION 13.5
   C. TEMPORARY OR MOVABLE EQUIPMENT WITH FLEXIBLE CONNECTION TO POWER OR UTILITIES.
   D. EQUIPMENT WEIGHING LESS THAN 20 PUNDS SUPPORTED BY VIBRATION ISOLATORS.
   E. EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUSPENDED FROM A ROOF OR FLOOR OR HUNG ON A WALL.

   PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS BRACING NOTE:

   PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6 AND 2013 CBC, SECTIONS 1615A.1.20, 1615A.1.21 AND 1615A.1.22.

   THE BRACING AND ATTACHMENTS TO THE ST

GENERAL NOTES - LIGHTING FIXTURE/SCHEDULE:

1. ALL LIGHTING FIXTURES SHALL BE LABELED WITH THE APPROPRIATE UL LABEL (DAMP, WET, ETC) AS REQUIRED BY CODES AND LOCAL ORDINANCES.

2. SHOP DRAWING SUBMITTALS SHALL INCLUDE ALL FIXTURES, LAMPS, AND BALLAST INFORMATION. ANY SHOP DRAWINGS WHICH ARE SUBMITTED WITHOUT ANY ONE OF THESE ITEMS WILL BE REJECTED AS INCOMPLETE AND WILL BE REQUIRED TO BE RESUBMITTED WITH THE REQUIRED INFORMATION.

3. ALL LIGHTING FIXTURE SPECIFIC INFORMATION (TYPE, LAMPING, BALLAST, COLOR, MOUNTING, ETC.) HAS BEEN SPECIFIED WITH THE CONSIDERATION OF SPECIFIC PERFORMANCE AND AESTHETIC REQUIREMENTS. ANY SUBSTITUTION OF THE SPECIFIED FIXTURES IS SUBJECT TO THE ARCHITECT AND ENGINEER OF RECORD'S FINAL APPROVAL AND ARE SUBJECT TO THE FOLLOWING CRITERIA:

   a. SUBMIT AN OPERABLE SAMPLE WITH THE SPECIFIED LAMP/BALLAST COMBINATION AND A 120V CORD AND PLUG.

   b. SITE LIGHTING FIXTURES - PROVIDE A COMPLETE PHOTOMETRIC REPORT WHICH INCLUDES THE FOLLOWING INFORMATION ON THE SITE PLAN WHICH CLEARLY IDENTIFIES FOOT-CANDLE LEVELS. PLAN IS TO INCLUDE ALL INPUT DATA UTILIZED IN THE CALCULATION (LAMP/BALLAST TYPE, LAMP LUMENS, LIGHT LOSS FACTOR, ETC.). IN SITUATIONS WHERE SUBSTITUTIONS AFFECT FIXTURES EQUIPPED WITH EMERGENCY BATTERY PACKS, OR OTHER EMERGENCY SOURCES OF POWER, PROVIDE ADDITIONAL PHOTOMETRIC REPORT(S) WHICH CLEARLY IDENTIFY A MINIMUM 1.0 FOOT-CANDLES ALONG THE PATH(S) OF EGRESS - THIS REPORT SHALL ALSO INCLUDE ALL INPUT DATA UTILIZED IN THE CALCULATIONS (FOR FIXTURES UTILIZING AN EMERGENCY BATTERY PACK INCLUDE THE LUMEN RATING AND QUANTITY OF LAMPS FOR THE EMERGENCY BATTERY PACK). SEE BELOW FOR PHOTOMETRIC PLAN GUIDELINES:

      1) POINT BY POINT SPACING IS NOT TO EXCEED 10'-0" IN ANY DIRECTION.

      2) PHOTOMETRIC STUDY IS TO BE BASED ON A MAINTAINED FOOT-CANDLE LEVEL USING MEAN LAMP LUMENS AND THE SAME LIGHT LOSS FACTORS USED IN THE ORIGINAL DESIGN CALCULATIONS PERFORMED BY THE ENGINEER OF RECORD.

      3) ASSOCIATED REPORT TO INCLUDE AN ENERGY COST MODEL WHICH IDENTIFIES ADDITIONAL ENERGY OR ENERGY COSTS FOR A 10-YEAR PERIOD AS COMPARED TO THE SPECIFIED ITEM. ALL ADDITIONAL EXPENSES WILL BE SUBTRACTED FROM THE CONTRACT COST.

   c. INTERIOR LIGHTING FIXTURES - SPECIFIC INTERIOR FIXTURES AS DETERMINED BY THE ENGINEER OF RECORD WILL REQUIRE SUPPLEMENTAL PHOTOMETRIC REPORTS CONFIRMING SUBSTITUTE FIXTURE LIGHT LEVELS EQUAL OR EXCEED DESIGNED LIGHT LEVELS IN SPACES IDENTIFIED. IF THE SUBSTITUTED FIXTURE IS AN EMERGENCY FIXTURE A PHOTOMETRIC REPORT SHALL BE SUBMITTED FOR ALL PATHS OF EGRESS WHICH CLEARLY IDENTIFIES 1.0 MINIMUM FOOT-CANDLES ALONG THE PATH. IN ADDITION, TEST SWITCH MOUNTING (INTEGRAL OR REMOTE) SHALL MATCH THE MOUNTING AS SPECIFIED ON THE DESIGN DOCUMENTS - CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED COVER PLATES, TRIMS, REFLECTORS, ETC NECESSARY FOR THE SPECIFIC TEST SWITCH MOUNTING. ALL REPORTS SHALL INCLUDE INPUT DATA, UTILIZED IN THE CALCULATIONS (FOR FIXTURES UTILIZING AN EMERGENCY BATTERY PACK INCLUDE THE LUMEN RATING AND QUANTITY OF LAMPS FOR THE EMERGENCY BATTERY PACK).

      1) PHOTOMETRIC STUDY IS TO BE BASED ON A MAINTAINED FOOT-CANDLE LEVEL USING MEAN LAMP LUMENS AND THE SAME LIGHT LOSS FACTORS USED IN THE ORIGINAL DESIGN CALCULATIONS PERFORMED BY THE ENGINEER OF RECORD.

   d. MANUFACTURER'S CATALOG CUT SHEET WHICH INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING INFORMATION: 1) LAMP TYPES AND QUANTITIES; 2) BALLAST OPTIONS; 3) VOLTAGES; 4) EPA RATING (WHERE APPLICABLE); 5) FIXTURE DIMENSIONS; 5) EMERGENCY BATTERY PACK AND TEST SWITCH OPTIONS (WHERE APPLICABLE); AND 6) FIXTURE FINISHES.

   e. FOR ALL SITE LIGHTING FIXTURES PROVIDE POLE SPECIFICATIONS WITH SUPPLEMENTAL DOCUMENTATION IDENTIFYING POLE SIZE IS RATED ACCORDINGLY BASED ON FIXTURE(S) EPA AND A WIND RATING FOR THE PROJECT ZONE.

   f. A SIGNED COPY OF THE "SUBSTITUTION COMPLIANCE FORM" LOCATED IN THE DIVISION 1 SPECIFICATION WHICH STATES THAT IF THE PROPOSED SUBSTITUTION IS ACCEPTED, THEN THE PROJECT SCHEDULE WILL NOT BE NEGATIVELY AFFECTED. IF THE COMPLETION OF THE PROJECT IS DELAYED DUE TO THE PROPOSED SUBSTITUTION THEN THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR ANY AND ALL ESTABLISHED LIQUIDATED DAMAGES.

   g. CONTRACTOR TO PROVIDE ARCHITECT AND ENGINEER OF RECORD WITH ALL SUBSTITUTE INFORMATION REFERENCED ABOVE NO LATER THAN TWO WORKING WEEKS PRIOR TO THE BID DEADLINE.

4. CATALOG NUMBERS AS REFERENCED ON THE FIXTURE SCHEDULE PROVIDE GENERAL FIXTURE INFORMATION. CONTRACTOR SHALL REVIEW LIGHTING PLANS AND SPECIFICATIONS TO VERIFY ALL FIXTURE ASSOCIATED DESIGN INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY PARTS AND PIECES REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION. ANY DISCREPANCIES BETWEEN DESCRIPTIONS, SPECIFICATIONS, AND CATALOG NUMBERS ARE TO BE PRESENTED TO THE ENGINEER OF RECORD PRIOR TO COMPLETION OF THE BID PROCESS FOR CLARIFICATION.

5. ALL COLOR SPECIFIC INFORMATION WHICH RELATES TO LIGHTING FIXTURES AND/OR THEIR RELATED PARTS ARE TO BE REVIEWED AND COMMENTED ON BY THE ARCHITECT. FIXTURES WHICH REQUIRE A CUSTOM COLOR WILL HAVE A CUSTOM COLOR PAINT WHICH WILL BE INCLUDED IN THE ARCHITECT'S SHOP DRAWING REVIEW COMMENTS.

6. ALL LIGHTING EQUIPMENT LOCATIONS ARE TO BE COORDINATED WITH THE ARCHITECTURAL REFLECTED CEILING PLAN PRIOR TO ORDERING AND INSTALLING.

7. ALL FIXTURES TO BE MOUNTED IN FIRE RATED CEILINGS ARE TO BE PROVIDED AND INSTALLED WITH AN APPROVED FIRE RATED ENCLOSURE.

8. ALL FLUORESCENT LIGHTING FIXTURES ARE TO BE SEASONED IN ORDER TO MAXIMIZE LAMP LIFE. CONTINUOUSLY ILLUMINATE LAMPS FOR A NO LESS THAN 30-HOURS UNLESS OTHERWISE SPECIFIED OR REFERENCED BY MANUFACTURER DATA. CONTRACTOR TO RE-LAMP AND REPLACE ALL MALFUNCTIONING LAMPS AND BALLASTS.

9. ENSURE COMPATIBILITY OF ALL DIMMING SYSTEM AND INDIVIDUAL LIGHTING CONTROLS WITH LAMPS, BALLASTS, AND FIXTURES. ALL COMPONENTS ARE TO BE FACTORY CERTIFIED COMPATIBLE FOR A FULL RANGE OF DIMMING.

10. LIGHTING FIXTURE CLEARANCES FROM COMBUSTIBLE MATERIALS ARE TO BE A MINIMUM OF 1/2" (OTHER THAN AT POINTS OF SUPPORT) AND 3" FROM INSULATION FOR NON-IC RATED RECESSED LIGHTING FIXTURES.

11. ALL FLUORESCENT LIGHTING FIXTURES TO BE MOUNTED IN A SUSPENDED CEILING ARE TO BE SUPPORTED BY T-BAR CLIPS AND (2)#12 SUPPORT WIRES ATTACHED TO THE BUILDING FRAME. IN ADDITION, LIGHTING FIXTURES ARE TO BE SECURED TO THE CEILING GRID WITH (4) SHEET METAL SCREWS ((1) AT EACH CORNER OF THE FIXTURE) - SCREWS SHALL BE NEITHER VISIBLE NOR IMPEDE THE INSTALLATION OF CEILING TILES.

12. ALL LIGHTING FIXTURES WHICH ARE TO BE MOUNTED IN FOOD SERVICE AREAS SHALL BE PROVIDED WITH THE FOLLOWING CHARACTERISTICS: DOOR TO FRAME GASKETS; LENS TO FRAME GASKETS; INVERTED LENS; AND A FOOD SERVICE RATING.

13. APPROVED LAMP MANUFACTURERS ARE AS FOLLOWS: OSRAM-SYLVANIA; GE; PHILIPS; AND VENTURE (MH ONLY). BELOW ARE FLUORESCENT LAMP COLOR TEMPERATURE GUIDELINES TO BE USED UNLESS OTHERWISE NOTED OR SPECIFIED:

    - 3500° FOR ALL OPEN AND PRIVATE OFFICE ENVIRONMENTS
    - 3500° FOR ALL SUPPORT AREAS (ELEC/MECH ROOMS, JANITORS CLOSETS, ETC.)
    - 3000° FOR ALL LOBBIES, CORRIDORS, AND FRONT OF HOUSE AREAS

14. ALL FLUORESCENT FIXTURES MUST BE SUPPLIED WITH "QUICK DISCONNECT" SAFETY BALLASTS WHICH ARE UL AND CSA CERTIFIED IN ACCORDANCE WITH NEC 410.73(G) AND CEC 30-308(4).

15. ALL BALLASTS FOR FLUORESCENT AND HID FIXTURES ARE TO BE ELECTRONIC WHEN AVAILABLE. PROVIDE END OF LIFE SHUT DOWN FOR ALL COMPACT FLUORESCENT LAMPS. ADDITIONALLY, ALL BALLASTS ARE TO BE PROVIDED WITH THE REQUIRED UL AND CBM LABELS AND MUST CONFORM TO T-24 STANDARDS AND REQUIREMENTS FOR PERFORMANCE AND EFFICIENCY.

16. ALL FIXTURES, TRIMS, AND LAMPS SHALL BE CLEANED AND FREE FROM DIRT, DUST, LABEL/ADHESIVE, AND FINGER PRINTS.

17. FIXTURES REFERENCED ON THE PLANS TO BE WIRED IN TANDEM (MASTER/SATTELITE) ARE TO BE INSTALLED FOLLOWING THE GUIDELINES REFERENCED BELOW:

   a. FIXTURES ARE TO BE PROVIDED WITH MULTIPLE BALLASTS AS REQUIRED. FIXTURES TO BE PROVIDED WITH FACTORY SPECIFIED AND INSTALLED WIRING HARNESS OF LENGTHS SPECIFIED ON THE PLANS. ALL AREAS WITH TANDEM FIXTURES ARE TO BE PROVIDED WITH THE REQUIRED QUANTITY AND TYPE OF CONTROL DEVICES AS INDICATED ON PLANS.

   b. 3-LAMP FIXTURES TO BE TANDEM WIRED WITH ELECTRONIC BALLAST CONFIGURATIONS AS FOLLOWS:

      1) "M" REFERENCES A MASTER FIXTURE WHICH IS TO PROVIDED WITH (1) 4-LAMP BALLAST WHICH CONTROLS THE OUTBOARD LAMPS; AND (1) 2-LAMP BALLAST WHICH CONTROLS THE INBOARD LAMPS - OF BOTH THE MASTER ("M") AND THE SATELLITE ("S") FIXTURES.

      2) "S" REFERENCES A SATELLITE FIXTURE WHICH IS CONNECTED TO THE MASTER ("M") FIXTURE VIA FACTORY PROVIDED WIRING HARNESS OR WHIP.

      3) "O" REFERENCES AN ODD FIXTURE WHICH IS TO BE PROVIDED WITH (1) 2-LAMP BALLAST WHICH CONTROLS THE OUTBOARD LAMPS; AND (1)1-LAMP BALLAST WHICH CONTROLS THE INBOARD LAMP.

      4) FIXTURES DESIGNATED AS "EMERGENCY" ARE TO BE PROVIDED WITH THE APPROPRIATE EMERGENCY BATTERY PACK (SEE EMERGENCYBATTERY PACK SPECS BELOW) AND ARE TO BE FED WITH SPECIFIED SWITCH LEGS, AS WELL AS A CONSTANT HOT CIRCUIT. EM BATTERY PACKIS TO BE MOUNTED IN THE MASTER FIXTURE.

      5) CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE APPROPRIATE LAMP AND BALLAST TYPE AND QUANTITY BASED ON THE FIXTURESPECIFICATION AND SWITCHING CONFIGURATIONS.

18. EMERGENCY LIGHTING FIXTURES AND BATTERY PACKS ARE TO BE PROVIDED BASED ON FOLLOWING THE CRITERIA:

   a. FIXTURES SPECIFIED WITH INTEGRAL EMERGENCY BATTERY PACKS ARE TO BE FED USING THE FOLLOWING GUIDELINES:

      1a,1* - FOR EMERGENCY FIXTURES SPECIFIED WITH AN EMERGENCY BATTERY PACK REPRESENTS A FIXTURE WITH A NORMAL BALLAST TO BE CONNECTED TO SWITCH LEG "a" AND AN EMERGENCY BALLAST TO BE CONNECTED TO A CONSTANT HOT LEG "1" (CONSTANT HOTCIRCUITS ARE TO BE TAPPED AHEAD OF ANY TIME-CLOCK/PHOTO-CELL CONTROLLED DEVICES).

      1* - REPRESENTS ONE OF THE FOLLOWING FIXTURE TYPES WHICH ARE TO BE CONNECTED TO A CONSTANT HOT CIRCUIT "1": a) NORMAL FIXTURE DESIGNATED AS A NIGHT LIGHT (NL); b) EXIT SIGN(S); AND/OR c) AN EMERGENCY FIXTURE EQUIPPED WITH AN EMERGENCY BATTERY PACK WHICH ALSO SPECIFIED TO BE A NIGHT LIGHT. (ALL CONSTANT HOT CIRCUITS ARE TO BE TAPPED AHEAD OF ANY TIME-CLOCK/PHOTO-CELL CONTROLLED DEVICES)

   b. EMERGENCY BATTERY PACKS SHALL BE PROVIDED AND INSTALLED AS FOLLOWS:

      FLUORESCENT LINEAR T8 LAMPS: (STANDARD OUTPUT)

8'-0" T8	1-LAMP	1400 LUMENS	BODINE #B50 OR EQUAL
4'-0" T8	1-LAMP	1350 LUMENS	BODINE #B50 OR EQUAL
4'-0" T8	2-LAMP	1350 LUMENS	BODINE #B50 OR EQUAL
3'-0" T8	1-LAMP	1250 LUMENS	BODINE #B50 OR EQUAL
3'-0" T8	2-LAMP	1100 LUMENS	BODINE #B50 OR EQUAL
2'-0" T8	1-LAMP	1050 LUMENS	BODINE #B50 OR EQUAL
2'-0" T8	2-LAMP	950 LUMENS	BODINE #B50 OR EQUAL

      FLUORESCENT LINEAR T8 LAMPS: (SUPER SAVER)

4'-0" T8	1-LAMP	1250 LUMENS	BODINE #B50 OR EQUAL
4'-0" T8	2-LAMP	1100 LUMENS	BODINE #B50 OR EQUAL

      FLUORESCENT LINEAR T5/T5HO LAMPS:

4'-0" T5HO	1-LAMP	1250 LUMENS	BODINE #LP600 OR EQUAL
3'-0" T5HO	1-LAMP	1125 LUMENS	BODINE #LP600 OR EQUAL
2'-0" T5HO	1-LAMP	725 LUMENS	BODINE #LP600 OR EQUAL
4'-0" T5	1-LAMP	1325 LUMENS	BODINE #LP600 OR EQUAL
3'-0" T5	1-LAMP	1025 LUMENS	BODINE #LP600 OR IEQUAL
2'-0" T5	1-LAMP	750 LUMENS	BODINE #LP600 OR EQUAL

      COMPACT FLUORESCENT LAMPS:

13W CFL	1-LAMP	700 LUMENS	BODINE #B84CG OR EQUAL
18W CFL	1-LAMP	900 LUMENS	BODINE #B84CG OR EQUAL
26W CFL	1-LAMP	700 LUMENS	BODINE #B84CG OR EQUAL
32W CFL	1-LAMP	1250 LUMENS	BODINE #B84CG OR EQUAL
42W CFL	1-LAMP	1250 LUMENS	BODINE #B84CG OR EQUAL
57W CFL	1-LAMP	1150 LUMENS	BODINE #B75C OR EQUAL
70W CFL	1-LAMP	1300 LUMENS	BODINE #B75C OR EQUAL

LIGHTING FIXTURE SCHEDULE

			Electrical			Manufacturer								
Type	Name	Description	Apparent Load	Voltage	Driver	Lumens	CCT	CRI	Condition	BUG Rating	Manufacturer	Model Number	Finish	Mounting Details/ Mounting Heig	Location
ZB1	Bollard Path Light	"77 221" Series, 7.5" W x 11" D x 39.5" H, shielded directed illumination, die-cast marine grade extruded copper free A360.0 aluminum alloy, impact resistant polycarbonate diffuser, high temp silicone gasket, mechanically captive stainless steel fasteners, standard finish TBD, IP65.	10.0 VA	120-277 V	Integral 0-10V dimming	643	3000	90+	Exterior	B0-U0-G0	BEGA	77 221-K3-[FINISH]	TBD		Pedestrian Paths
ZN1	Pedestrian Pole	"99 402" series, 11.875" W x 3.875" H x 16" D, die-cast marine grade extruded copper free A360.0 aluminum alloy, tempered clear glass, mechanically captive stainless steel fasteners, fully gasketed for weather tight operation, IP65; with "16 RHNS1" series pole, 5" Diam x 16' H, hinged base for ease of access to pole-top, handhole at default location (18" AFG); standard finish TBD, 2-piece round base cover.	16.0 VA	120-277 V	Integral 0-10V dimming	1855	3000	85	Exterior	B1-U0-G1	BEGA	99 402-K3-[FINISH],16 RHNS1-B16RHSN1-AB-STANDARD BASE COVER-HANDHOLD DEFAULT LOCATION	TBD		Entries
ZU1	Ingrade Adjustable Uplight	"Keplero Mini Zoom" series, 6.34" Diam, adjustable on 20 degree vertical axis, and 355 degree horizontal, with zoom optical system that manually slides and locks on vertical axis to 4 different fixed beam positions (15 deg spot, 32 deg flood, 53 deg medium flood, 61 deg wide flood), brushed natural stainless steel decorative trim ring with anti-slip glass, direct burial brass j-box, installation accessories, half moon glare shield, installation sleeve for concrete pour and for turf as applicable, IK10, IP68.	14.0 VA	120-277 V	Integral 0-10V dimming	610-1127 (dependent on beam angle)	3000	80	Exterior	Exempt as monument lighting	Targetti	KPLM-41-ZM-L2-30-1DU2525A-1DU2521/1DU434412-1DU2530-1E2524-1E2495-1E0388-1E2523	Stainless steel (silver)		Memorial
ZU2	Ingrade Flag Pole Uplight	"Keplero Zoom" series, 8.27" Diam, adjustable on 20 degree vertical axis, and 360 degree horizontal, with zoom optical system that manually slides and locks on vertical axis to 4 different fixed beam positions (19 deg spot, 26 deg flood, 42 deg medium flood, 64 deg wide flood) factory-set to 19 degree bream, brushed natural stainless steel decorative trim ring with anti-slip glass, direct burial brass j-box, installation accessories, anti-glare black honeycomb louver, raised installation sleeve for ground cover (so that fixture trim is flush with polished stone ground cover), IK10, IP68.	36.0 VA	120-277 V	Integral 0-10V dimming	1666	3000	84	Exterior	Exempt as flag pole lighting	Targetti	KPL-41-ZM-L2-30-1DU2325A-1DU434318-1T1699-1DU2530-1E2495-1E2496-1E0388	Stainless steel (silver)		Flag Poles
ZU3	Ingrade Wallwash Uplight	"Keplero Mini Wallwasher" series, 6.34" Diam, 84 deg x 34 deg wallwash optic, adjustable optic 15 deg on vertical axis, brushed natural stainless steel decorative trim ring, direct burial brass j-box, installation accessories, installation sleeve for landscape applications, IK10, IP68.	14.0 VA	120-277 V	Integral 0-10V dimming	933	3000	80	Exterior	Exempt as monument lighting	Targetti	KPLM-41-WW-L1-30-1DU2525A-1DU434412-1E2524-1E2495-1E0388-1DU2530	Stainless steel (silver)		Monuments
ZW1	Column-mounted Adjustable Spotlight	"HL-360" Series, 2.25" Diam x 3.875" L x 1.325" D (knuckle projection), machined aluminum body, standard finish TBD, 40 deg flood, soft focus lens, small profile transformer with 0-10V dimming, wet location.	8.0 VA	120 V	Remote 0-10V dimming	300	3000	85	Exterior		Hevlite	HL-360-[FINISH]-8LED-FL-12-LA-4, HLT-15E-LED-0-10-277, WM-7-MACH-[FINISH]	TBD	10'-0" AFF to middle of mounting plate.	Canopy Columns

CITY OF RANCHO CUCAMONGA
BUILDING & SAFETY DEPARTMENT
APPROVED
By: RJ for Zack Neighbors Date: Jan 24, 2024
Note: All contractors and subcontractors are required to obtain approval from the Business License Division before scheduling a final inspection.

GENERAL NOTES - LIGHTING FIXTURE/SCHEDULE (CONT.):

LED LAMPS:

BODINE #BSL23 OR #BSL722 OR EQUAL IF AVAILABLE

NOTE: ALL LED FIXTURES EQUIPPED WITH EMERGENCY BATTERY PACKS SHALL HAVE THE BATTERY PACKS FACTORY INSTALLED AND TESTED AT THE FIXTURE MANUFACTURER'S FACILITY TO ENSURE UL LISTING OF THE FIXTURE IS MAINTAINED. FIELD INSTALLATION OF LED EMERGENCY BATTERY PACKS IS STRICTLY PROHIBITED. NOTIFY ENGINEER OF RECORD SHOULD SPECIFIED FIXTURE NOT HAVE ADEQUATE SPACE TO ACCOMMODATE THE EMERGENCY BATTERY PACK. CONTRACTOR TO MODIFY BASE BID TO INCLUDE ALL NECESSARY EQUIPMENT FOR A COMPLETE AND OPERATIONAL, ADEQUATELY SIZED MINIATURE INVERTER SYSTEM TO BE MOUNTED IN NEAREST ELECTRICAL ROOM IN THE EVENT THE BATTERY PACK CAN NOT BE INSTALLED IN THE FIXTURE.

NOTE: ALL BATTERY PACKS ARE TO BE FACTORY INSTALLED IN FIXTURE ASSEMBLIES WHEN APPLICABLE. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONTACTING FIXTURE MANUFACTURERS TO VERIFY SPECIFIED (OR APPROVED SUBSTITUTE) FIXTURE HAS ADEQUATE SPACE WITHIN THE FIXTURE TO MOUNT THE EMERGENCY BATTERY PACK. IF IT IS DETERMINED THE BATTERY PACK CANNOT BE MOUNTED IN THE FIXTURE THEN CONTRACTOR SHALL INCLUDE ALL COSTS REQUIRED FOR REMOTE MOUNTING THE EMERGENCY BATTERY PACK ABOVE NEAREST ACCESSIBLE CEILING. ENSURE DISTANCE FROM FIXTURE TO REMOTE BATTERY PACK LOCATION DOES NOT EXCEED THE MANUFACTURER'S RECOMMENDED DISTANCES. COORDINATE ALL ACCESS PANELS WITH ARCHITECT OF \ RECORD PRIOR TO INSTALL.

c. ALL LIGHTING FIXTURES WITH EMERGENCY BATTERY PACKS ARE TO BE PROVIDED WITH INTEGRAL TEST SWITCHES AND CHARGE LIGHTS UNLESS OTHERWISE NOTED OR REQUIRED BY THE AUTHORITY HAVING JURISDICTON (AHJ). IN THE EVENT INTEGRAL TEST SWITCHES ARE NOT ALLOWED NOTIFY ENGINEER OF RECORD PRIOR TO INSTALLATION OF REMOTE TEST SWITCHES. TEST SWITCHES TO BE INSTALLED IN FIXTURES WITH A MINIMUM OF 18" OF ADDITIONAL WIRING TO ALLOW FOR GENERAL FIXTURE MAINTENANCE.

19. INSTALL ALL EXIT SIGNS IN ACCORDANCE WITH THE LOCAL AHJ AND FIRE AUTHORITY. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED PARTS, PIECES, AND MOUNTING HARDWARE FOR EXIT SIGNS, AS WELL AS, ENSURING THE EXIT SIGNS ARE MOUNTED IN AN APPROVED VISIBLE LOCATION. VERIFY ALL REQUIRED CHEVRONS, MIRRORS, AND FACES AS REFERENCED ON THE ARCHITECTURAL REFLECTED CEILING PLAN. NOTIFY ARCHITECT AND ENGINEER OF RECORD OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ELECTRICAL DRAWINGS PRIOR TO ORDERING OF EQUIPMENT.

20. TRACK LIGHTING FIXTURE SPECIFICATIONS ARE TO BE COORDINATED, VERIFIED AND CONFIRMED WITH EQUIPMENT MANUFACTURER AND/OR DISTRIBUTOR PRIOR TO ORDERING AND INSTALLING. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY PARTS AND PIECES FOR A COMPLETE, FUNCTIONAL AND OPERATIONAL INSTALLATION. TRACK LENGTHS ARE AS SPECIFIED ON THE FIXTURE SCHEDULE.

21. CONTRACTOR SHALL INSTALL ALL LIGHTING FIXTURES PER LOCAL AND NATIONAL BUILDING, ELECTRICAL AND SEISMIC CODES. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED MOUNTING HARDWARE AND BRACING MATERIALS FOR COMPLETE AND CODE COMPLIANT INSTALLATION. COORDINATE REQUIREMENTS WITH AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION.

22. CONTRACTOR SHALL COORDINATE ALL LIGHTING FIXTURE LOCATIONS AND QUANTITIES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. IN ADDITION, CONTRACTOR SHALL ALSO COORDINATE ANY FIXTURE SPECIFIC DIMENSIONS WITH ARCHITECTURAL RCP. NOTIFY ARCHITECT AND ENGINEER OF RECORD OF ANY DISCREPANCIES PRIOR TO FINALIZING FIXTURE ORDER WITH THE DISTRIBUTOR.

23. CONTRACTOR TO INCLUDE IN BASE BID A MINIMUM OF 2-HOURS FOR A ONE TIME AIMING AND ADJUSTMENT TIME OF ALL MULTI-HEAD AND DIRECTIONAL FIXTURE ASSEMBLIES. AIMING AND ADJUSTMENT TO BE SCHEDULED FOR AT NIGHT AND AFTER HOURS WITH THE ARCHITECT, ENGINEER, AND OWNER PRESENT. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AN APPROPRIATE TIME PRIOR TO ORDERING THE FINAL PUNCH WALK FOR THE PROJECT.

24. HIGH INTENSITY DISCHARGE (HID) BALLAST REQUIREMENTS ARE TO FOLLOW THE GUIDELINES REFERENCED BELOW:

   a. ALL HID BALLASTS ARE TO BE HIGH POWER FACTOR ENCAPSULATED CORE & COIL, CORE & COIL, OR F-CAN TYPE. FOR FIXTURES 175W AND LOWER BALLASTS ARE TO BE PROVIDED WITH A CLASS "A" OR BETTER SOUND RATING; FOR FIXTURES WITH 175W TO 400W BALLASTS ARE TO HAVE A CLASS "B" SOUND RATING. ALL HID BALLASTS ARE TO HAVE A ZERO DEGREE MINIMUM START TEMPERATURE. ALL FIXTURES WITH METAL HALIDE LAMPS RATED AT 150W OR LESS

      BE PROVIDED WITH PULSE START METAL HALIDE BALLASTS PER SECTION 1602, CCR TITLE 20 EFFICIENCY STANDARD.

   b. IGNITER SELECTION FOR REMOTE HID BALLASTS ARE TO BE COORDINATED WITH THE FIXTURE MANUFACTURER'S ON A PER FIXTURE BASIS AND ARE TO BE DETERMINED USING THE DISTANCE REQUIREMENTS FOR EACH FIXTURE. IN

      USE OF MAGNETIC BALLASTS IS PERMITTED FOR FIXTURE WATTAGES OF 150W OR LESS.

25. SUPPLEMENTARY OVERCURRENT PROTECTION PANEL FOR TRACK LIGHTING SYSTEMS TO BE PROMINENTLY LABELED AS FOLLOWS:

    NOTICE: THIS PANEL FOR TRACK LIGHTING ENERGY CODE COMPLIANCE ONLY. THE OVERCURRENT PROTECTION DEVICES IN THIS PANEL SHALL ONLY BE REPLACED WITH THE SAME OR LOWER AMPERAGE. NO OTHER OVERCURRENT PROTECTIVE DEVICE SHALL BE ADDED TO THIS PANEL, ADDING TO, OR REPLACEMENT OF EXISTING OVERCURRENT PROTECTIVE DEVICE(S) WITH HIGHER CONTINUOUS AMPERE RATING, WILL VOID THE PANEL LISTING AND REQUIRE RESUBMITTAL AND RE-CERTIFICATION OF CALIFORNIA TITLE 24, PART 6 COMPLIANCE DOCUMENTATION.

LIGHTING FIXTURE SUBSTITUTION NOTES

1. ALL LIGHTING FIXTURES AND CONTROLS SHALL BE PROVIDED AS SPECIFIED. NO FIXTURE/CONTROL SUBSTITUTIONS WILL BE CONSIDERED OR ACCEPTED. IN SITUATIONS WHERE OWNER CHOOSES TO CONSIDER "VALUE ENGINEERING ALTERNATIVES", ALL FIXTURE SUBSTITUTIONS MUST BE SUBMITTED PER NOTE 3 OF THE "GENERAL NOTES - LIGHTING FIXTURE SCHEDULE". IN ADDITION TO MEETING THESE REQUIREMENTS CONTRACTOR SHALL PROVIDE LINE ITEM PRICING COMPARISONS BETWEEN THE SPECIFIED FIXTURE AND THE PROPOSED ALTERNATIVE FIXTURE TO THE ENGINEER OF RECORD/OWNER/ARCHITECT - PRICING SHALL BE REPRESENTATIVE OF THE FINAL COST PER UNIT TO THE OWNER AND INCLUSIVE OF ALL MARK-UPS. ALL FIXTURES WHICH ARE NOT SUBMITTED PER THESE REQUIREMENTS WILL BE REJECTED AS INCOMPLETE.
2. SUBSTITUTION = IN ORDER FOR A PRODUCT TO BE CONSIDERED AN EQUAL PRODUCT ALL REQUIREMENTS IDENTIFIED IN THE "GENERAL NOTES - LIGHTING FIXTURE/SCHEDULE:" AND PROJECT SPECIFICATIONS MUST BE SUBMITTED WITHIN 30 DAYS OF CONTRACT AWARD. ANY PRODUCTS SELECTED WHICH DO NOT MEET THESE REQUIREMENTS WILL BE DETERMINED NOT TO BE AN EQUAL AND THEREFORE NOT A CONSIDERATION FOR THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COPY OF THE FIXTURE SCHEDULE AND LIGHTING/FIXTURE SCHEDULE GENERAL NOTES TO ALL REPRESENTATIVE AGENCIES/DISTRIBUTORS.
3. REFER TO "BALLAST SCHEDULE" ON SHEET E0.40 FOR FIXTURE BALLAST INFORMATION.

NOTES:

1. REFER TO CONTROL DIAGRAMS FOR ADDITIONAL REQUIREMENTS.

2. PROVIDE LED DIMMING DRIVERS THAT DO NOT HAVE VOLTAGE LEAK ACROSS WIRES, AND IS COMPATIBLE WITH LIGHTING CONTROL SYSTEM

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue, Suite 100
Irvine, California 92617

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

REGISTERED PROFESSIONAL ENGINEER STEPHEN M. KOLLEGIS E-17415 9/30/24 ELECTRICAL STATE OF CALIFORNIA

This document and all other project documents, ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are copyright protected, are the property of LPA, Inc. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as set forth in the contractual agreement between LPA and its Client. The unauthorized disclosure and/or use of the project documents (including the creation of derivative works), may give rise to liability for copyright infringement, unlawful disclosure, use or misappropriation of property rights held by LPA. The unauthorized use of the project documents will give rise to the recovery of monetary losses and damages including attorney fees and costs for which the unauthorized user will be held liable.
Project documents describe the design intent of the work and are not a representation of as-built or existing conditions. LPA is not responsible for any discrepancies between the project documents and the existing conditions.

© LPA, Inc.

MEMORIAL PARK
10597 TOWN CENTER DRIVE
RANCHO CUCAMONGA, CA 91730
Developed for
CITY OF RANCHO CUCAMONGA

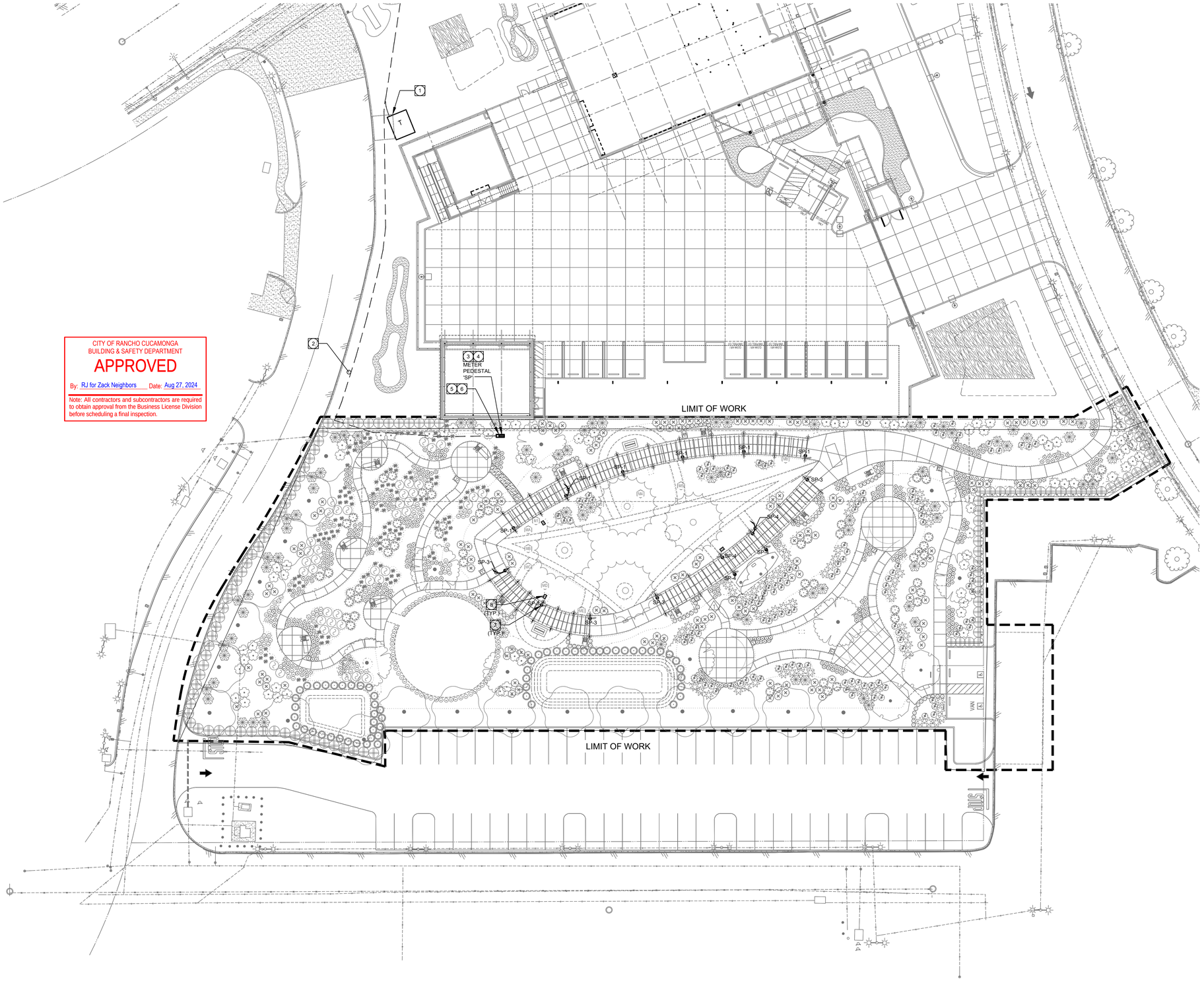
Revision	Date

Submittal	Date
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/21/2023
50% CD	10/06/2023
100% CD	11/03/2023

Job Number	30548.02
Date Published	11/03/2023
Checked By	JY,KG,FT
Scale	

LIGHTING FIXTURE SCHEDULE & NOTES

E0.20

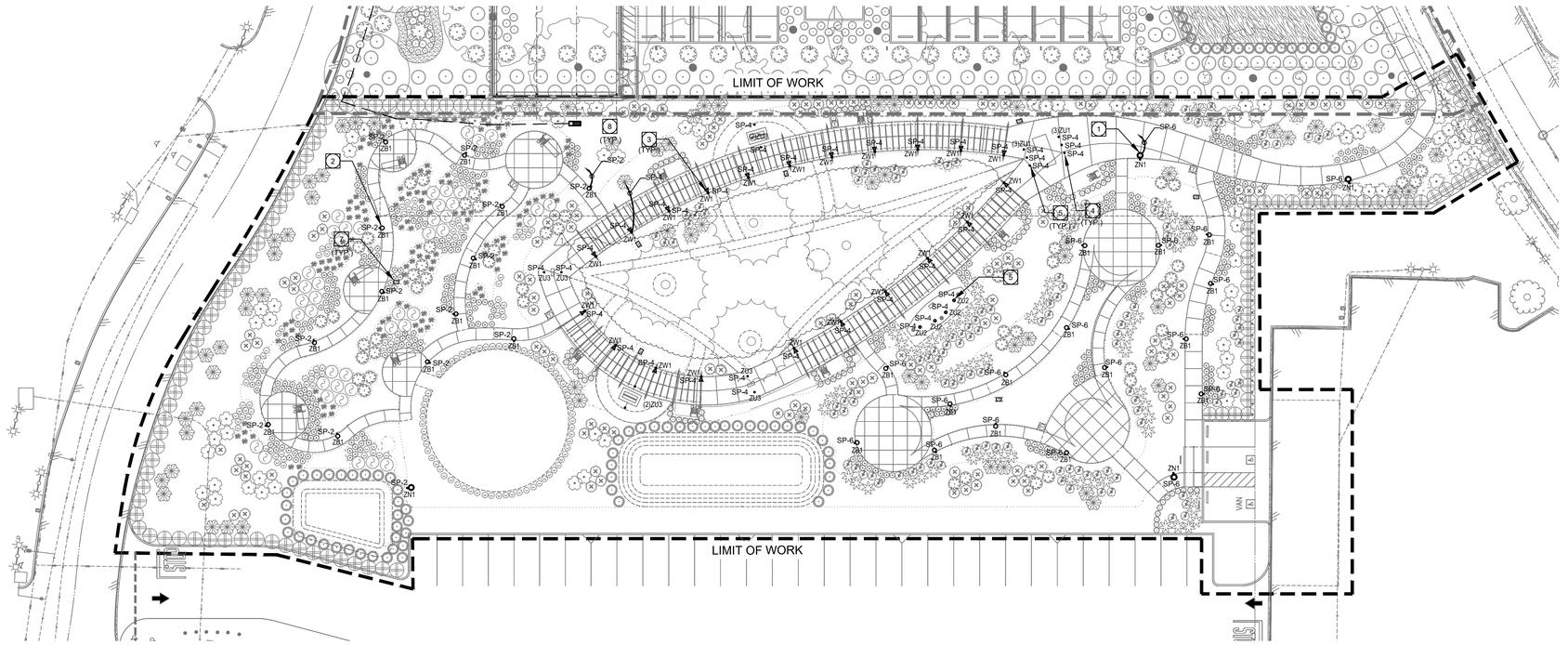

1
T
2
3
4
METER PEDESTAL 'SP'
5
6
LIMIT OF WORK
SP-1
SP-2
SP-3
SP-4
SP-5
SP-6
SP-7
SP-8
SP-9
SP-10
SP-11
SP-12
SP-13
SP-14
SP-15
SP-16
SP-17
SP-18
SP-19
SP-20
SP-21
SP-22
SP-23
SP-24
SP-25
SP-26
SP-27
SP-28
SP-29
SP-30
SP-31
SP-32
SP-33
SP-34
SP-35
SP-36
SP-37
SP-38
SP-39
SP-40

CITY OF RANCHO CUCAMONGA
BUILDING & SAFETY DEPARTMENT

APPROVED

By: RJ for Zack Neighbors Date: Aug 27, 2024

Note: All contractors and subcontractors are required to obtain approval from the Business License Division before scheduling a final inspection.



0 10 20 40 N

SITE LIGHTING PLAN 1" = 20' 01

KEYNOTES

1. SEE POLE FOOTING DETAIL 01/E7.01 (TYP).
2. SEE BOLLARD FOOTING DETAIL 02/E7.01 (TYP).
3. ZW1 COLUMN-MOUNTED ADJUSTABLE DOWNLIGHTS TO BE MOUNTED AT 10'-0" AFG TO CENTER OF FIXTURE. FIXTURES TO BE AIMED TOWARD CENTER OF PEDESTRIAN PATH. PROVIDE OPENING IN STRUCTURE FOR RECESSED SINGLE GANG JBOX BEHIND ZW1 FIXTURES; REMOTE 0-10V DIMMABLE DRIVER TO BE LOCATED WITHIN SINGLE GANG JBOX (TYP). SIZE HOLE APPROPRIATELY IN ORDER TO RECESS SINGLE GANG JBOX FOR FIXTURE INTO STRUCTURE AS NOTED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE (2) ACCESS HOLES ON OPPOSITE SIDE OF COLUMN FROM FIXTURE PER STRUCTURAL DETAIL S12/S1.03, AND LANDSCAPE ELEVATION 09/L5.06 (TYP).
4. ZU1 INGRADE ADJUSTABLE UPLIGHTS TO BE AIMED WITH ARCHITECT IN THE FIELD (TYP).
5. SEE DETAILS 09/ AND 17/E7.01 FOR ALL INGRADE UPLIGHT TYPES ZU1, ZU2, AND ZU3 (TYP).
6. CONTRACTOR TO PROVIDE 120V ELECTRICAL CONNECTION TO SITE LIGHTING/BOLLARDS.
7. CONTRACTOR TO PROVIDE 12" X 10" PULLBOX WITH "LIGHTING" FOR PULLING SITE LIGHTING CONNECTION. COORDINATE AND FIELD VERIFY WITH LANDSCAPE DRAWINGS PRIOR TO INSTALLATION.
8. ALL SITE LIGHTING TO BE CONTROLLED BY ASTRO-TIME CLOCK MOUNTED NEAR METER.

GENERAL NOTES

1. CONTRACTOR TO COORDINATE WITH CIVIL DRAWINGS TO AVOID CLASHING FOR ALL FOR ALL UNDERGROUND CONDUITS ROUTING.
2. ALL UNDERGROUND CONDUIT PATHWAY SHOWN IS DIAGRAMMATIC. COORDINATE WITH LANDSCAPE AND CIVIL DRAWINGS FOR BEST ROUTING PATHWAY. PLACE CONDUITS BELOW CIVIL UTILITIES PER FIELD CONDITION.

SITE UTILITY GENERAL NOTES

THESE NOTES ESTABLISH MINIMUM QUALITY LEVELS AND COORDINATION REQUIREMENTS. RESPECTIVE UTILITY COMPANY PLANS AND REQUIREMENTS TAKE PRECEDENCE OVER THESE NOTES WITH REGARD TO RESPECTIVE UTILITY COMPANY CONDUIT AND UNDERGROUND STRUCTURE SYSTEMS.

1. CALL UNDERGROUND SERVICE ALERT (USA) AT 1 (800) 422-4133 OR APPLICABLE STATE AND LOCAL DIG SAFE OR UNDERGROUND ALERT HOTLINES PRIOR TO CONSTRUCTION START.
2. COORDINATE ALL UNDERGROUND STRUCTURES AND CONDUIT ROUTING WITH LANDSCAPE ARCHITECT PRIOR TO ROUGH-IN TO ENSURE THAT SUCH ITEMS ARE NOT PLACED IN CRITICAL LANDSCAPE PLANTING/HARDSCAPE AREAS.
3. VAULTS, MAINTENANCE HOLES (MH's) AND CONDUITS SHALL MAINTAIN A MINIMUM COVER OF 24" BELOW FINAL SURFACE AT ALL CONDITIONS. INCLUDE ALL COSTS IN BASE BID TO MEET UTILITY COMPANY REQUIREMENTS WHICH MAY REQUIRE GREATER MINIMUM CONDUIT DEPTHS.
4. VAULTS, MH's AND PULLBOXES (PB's) SHALL BE EQUIPPED WITH KNOCKOUT PANELS OR PRE-CAST INDIVIDUAL CONDUIT OPENINGS. CONDUITS SHALL ONLY ENTER AND EXIT ON END/SHORT WALLS. CONDUITS MAY NOT ENTER AND EXIT ON SIDE/LONG WALLS, CEILINGS OR FLOORS UNLESS OTHERWISE NOTED.
5. CUT DUCTS FLUSH WITH INTERIOR VAULT/MH/PB WALL.
6. GROUT AROUND DUCT ENTRANCES ON VAULT/MH/PB WALLS.
7. SLURRY BACKFILL AROUND DUCTS WITHIN 5 FEET OF VAULT/MH/PB TO PREVENT SHEARING.
8. CONDUITS PASSING UNDER THE BUILDING PERIMETER SHALL BE ENCASED IN LIGHTWEIGHT CONCRETE OR WATER-IMPERVIOUS CLAY TO PREVENT WATER INFILTRATION. SEE ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. CONDUIT BEND RADIUS FOR BUILDING ENTRANCES AND AT POLES SHALL BE A MINIMUM OF 24" FOR CONDUITS WITH LESS THAN 2" INTERNAL DIAMETER AND A MINIMUM OF 48" FOR CONDUITS WITH MORE THAN 2" INTERNAL DIAMETER.
10. PREFERRED CONDUIT SWEEP RADIUS BETWEEN VAULTS IS 25 FEET. UNDER NO CIRCUMSTANCES SHALL THE CONDUIT SWEEP RADIUS BE LESS THAN 12.5 FEET. MAXIMUM OF 90 DEGREES PER SWEEP AND LIMITED TO NO MORE THAN (2) 90 DEGREE SWEEPS BETWEEN VAULTS.
11. VAULTS/MH's/PB's ARE TO BE EQUIPPED WITH RACKING, GROUNDING LUGS, AND BOLT-DOWN LIDS UNLESS OTHERWISE NOTED.
12. VAULTS AND MH's TO BE EQUIPPED WITH ROUND COVERS, EXTENSION RINGS AS REQUIRED. LADDERS AND (3) SEGMENTS OF 6 FOOT HIGH CABLE RACKING PER EACH LONG WALL.
13. LABEL ALL NON-UTILITY COMMUNICATION VAULT/MH/PB COVERS WITH "COMMUNICATIONS" UNLESS OTHERWISE NOTED ON PLANS.
14. COORDINATE FINAL VAULT/MH/PB OPENING HEIGHT WITH G.C. PRIOR TO ROUGH-IN TO ENSURE FINAL GRADE DOES NOT SLOPE INTO VAULT/MH/PB OPENING.
15. CONTRACTOR TO PROVIDE A MINIMUM OF 8" DEEP COMPACTED 1/2" DIAMETER GRAVEL, UNDER ALL VAULTS, MH's OR PB's TO ENSURE UNIFORM DISTRIBUTION OF SOIL PRESSURE ON THE FLOOR AND BE ABLE TO DISSIPATE WATER OUT OF THE VAULT, MH OR PB.
16. ALL VAULTS/MH's/PB's WITHOUT GROUNDING LUGS SHALL HAVE AN 8' x 3/4" COPPER GROUND ROD DRIVEN THRU THE FLOOR TO ALLOW GROUNDING OF ITEMS WITHIN.
17. ALL VAULTS/MH's/PB's SHALL BE PROVIDED WITH TRAFFIC RATED COVERS WHEN LOCATED IN PAVED AREAS UTILIZED FOR VEHICLE TRAFFIC.
18. IF THE WATER OR MOISTURE BARRIER ON OR NEAR THE FOUNDATION OF A BUILDING IS DISTURBED IN ANY MANNER BY EXCAVATION OR OTHER CONSTRUCTION WORK. THE MOISTURE BARRIER MUST BE REPAIRED FOLLOWING THE RECOMMENDATIONS OF THE MANUFACTURER OF THE ORIGINAL BARRIER PRODUCT.
19. THE CONTRACTOR SHALL INCLUDE IN BASE BID ALL COSTS TO COMPLY WITH ALL REQUIREMENTS FOR CONFINED SPACE ENTRY PER THE OSHA REQUIREMENTS 29 CFR-1910.146, 29 CFR-1910.268, ETC. DURING ANY CONFINED SPACE ENTRY.
20. ANY DUCTS LEAVING A VAULT, MH OR PB ROUTED INTO A FACILITY SHALL BE PLUGGED AT EACH END USING REMOVEABLE MECHANICAL PLUGS DESIGNED TO PREVENT WATER AND GAS FROM ENTERING THE FACILITY.
21. SEE ELECTRICAL SPECIFICATIONS AND PLAN DETAILS FOR ADDITIONAL REQUIREMENTS REGARDING UNDERGROUND CONDUITS AND IN-GRADE VAULT/MH/PB/JUNCTION BOXES.

DIGALERT
DIAL BEFORE YOU DIG — TWO WORKING DAYS BEFORE YOU DIG
TOLL FREE 1-800-227-2600
A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue,
Suite 100
Irvine, California 92617

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

REGISTERED PROFESSIONAL ENGINEER ALDO DINARDO No. 22355 ELECTRICAL STATE OF CALIFORNIA
3/31/26

This document and all other project documents, ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are copyright protected, are the property of LPA, Inc. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as set forth in the contractual agreement between LPA and its Client. The unauthorized disclosure and/or use of the project documents (including the creation of derivative works), may give rise to liability for copyright infringement, unlawful disclosure, use or misappropriation of property rights held by LPA. The unauthorized use of the project documents will give rise to the recovery of monetary losses and damages including attorney fees and costs for which the unauthorized user will be held liable.
Project documents describe the design intent of the work and are not a representation of as-built or existing conditions. LPA is not responsible for any discrepancies between the project documents and the existing conditions.

© LPA, Inc.

MEMORIAL PARK
10597 TOWN CENTER DRIVE
RANCHO CUCAMONGA, CA 91730
Developed for
CITY OF RANCHO CUCAMONGA

Revision	Date
VE CHANGES	07/31/2024

Submittal	Date
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/21/2023
50% CD	10/06/2023
100% CD	11/30/2023
PERMIT REVISION 01	07/30/2024

Job Number	30548.02
Date Published	07/30/2024
Checked By	JY,KG,FT
Scale	

SITE LIGHTING PLAN

E1.11

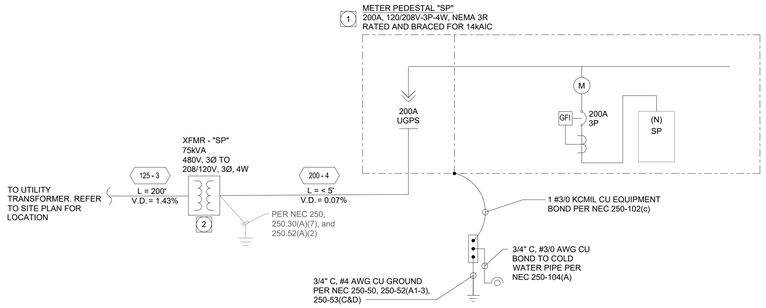
COPPER FEEDER SCHEDULE

MARK (AMPACITY)	CONDUITS # SETS	CONDUITS SIZE	CONDUCTORS PER SET Ø & N	CONDUCTORS PER SET GND	MARK (AMPACITY)	CONDUITS # SETS	CONDUITS SIZE	CONDUCTORS PER SET Ø	CONDUCTORS PER SET GND
15-4	1	3/4"	(4)12	12	**15-3**	1	3/4"	(3)12	12
20-4	1	3/4"	(4)12	12	**20-3**	1	3/4"	(3)12	12
30-4	1	3/4"	(4)10	10	**30-3**	1	3/4"	(3)10	10
40-4	1	1"	(4)8	10	**40-3**	1	3/4"	(3)8	10
50-4	1	1"	(4)6	10	**50-3**	1	1"	(3)6	10
60-4	1	1-1/2"	(4)4	10	**60-3**	1	1-1/2"	(3)4	10
70-4	1	1-1/2"	(4)4	8	**70-3**	1	1-1/2"	(3)4	8
80-4	1	1-1/2"	(4)2	8	**80-3**	1	1-1/2"	(3)2	8
90-4	1	1-1/2"	(4)2	8	**90-3**	1	1-1/2"	(3)2	8
100-4	1	1-1/2"	(4)2	8	**100-3**	1	1-1/2"	(3)2	8
100-4S	1	1-1/2"	(4)2	8	---	---	---	---	---
110-4	1	1-1/2"	(4)2	6	**110-3**	1	1-1/2"	(3)2	6
125-4	1	2"	(4)1	6	**125-3**	1	1-1/2"	(3)1	6
150-4	1	2"	(4)1/0	6	**150-3**	1	2"	(3)1/0	6
150-4S	1	2"	(4)1/0	6	---	---	---	---	---
175-4	1	2"	(4)2/0	6	**175-3**	1	2"	(3)2/0	6
200-4	1	2-1/2"	(4)3/0	6	**200-3**	1	2"	(3)3/0	6
225-4	1	2-1/2"	(4)4/0	4	**225-3**	1	2-1/2"	(3)4/0	4
225-4S	1	2-1/2"	(4)4/0	2					
250-4	1	3"	(4)250	4	**250-3**	1	2-1/2"	(3)250	4
300-4	1	3"	(4)350	4	**300-3**	1	3"	(3)350	4
350-4	1	4"	(4)500	2	**350-3**	1	4"	(3)500	2
400-4	2	2-1/2"	(4)3/0	2	**400-3**	2	2"	(3)3/0	2
400-4S	2	2-1/2"	(4)3/0	1/0	---	---	---	---	---
450-4	2	2-1/2"	(4)4/0	2	**450-3**	2	2-1/2"	(3)4/0	2
500-4	2	3"	(4)250	2	**500-3**	2	2-1/2"	(3)250	2
500-4S	2	3"	(4)250	2/0	---	---	---	---	---
600-4	2	3"	(4)350	1	**600-3**	2	3"	(3)350	1
650-4	2	4"	(4)400	1/0	**650-3**	2	3"	(3)400	1/0
750-4	2	4"	(4)500	1/0	**750-3**	2	4"	(3)500	1/0
800-4	3	3"	(4)300	1/0	**800-3**	3	3"	(3)300	1/0
800-4S	3	3"	(4)300	3/0	---	---	---	---	---
1000-4	3	4"	(4)500	2/0	**1000-3**	3	4"	(3)500	2/0
1000-4S	3	4"	(4)500	3/0	---	---	---	---	---
1200-4	4	4"	(4)350	3/0	**1200-3**	4	3"	(3)350	3/0
1600-4	5	4"	(4)400	4/0	**1600-3**	4	3"	(3)400	4/0
1600-4S	5	4"	(4)400	4/0	---	---	---	---	---
2000-4	6	4"	(4)500	250	**2000-3**	5	4"	(3)500	250
2500-4	7	4"	(4)500	350	**2500-3**	7	4"	(3)500	350
2500-4S	7	4"	(4)500	250	---	---	---	---	---
3000-4	8	4"	(4)500	400	**3000-3**	8	4"	(3)500	400
4000-4	11	4"	(4)500	500	**4000-3**	11	4"	(3)500	500

FEEDER SIZING NOTES

1. CONDUCTORS AND CONDUITS SHOWN IN THIS SCHEDULE ARE BASED ON COPPER CONDUCTORS WITH THHN/THWN INSULATION.
2. A "+" IN FEEDER TAGS SHOWN ON PLANS INDICATES A FEEDER UPSIZED DUE TO VOLTAGE DROP.
3. CONDUIT SIZES CALLED OUT ON PLANS SUPERSEDE THIS SCHEDULE.
4. "S" INDICATES A FEEDER COMING FROM A SEPARATELY DERIVED SYSTEM.
5. NOMINAL AMPACITIES GREATER THAN 100 AMPS ARE FOR 75 DEG. C TERMINALS.
6. FEEDERS CONNECTED TO THE SECONDARY OF A K-4 OR HIGHER XFMR SHALL HAVE OVERSIZED NEUTRAL (200% MIN.)
7. FEEDERS CONNECTED TO AN EMERGENCY INVERTER OR PV SHALL BE RATED AT 90 DEG. C.
8. FEEDERS WITH AN AMPACITY ≥ 400A SHALL BE PROVIDED WITH A SPARE CONDUIT OF EQUIVALENT SIZE AS NOTED.
9. NOT ALL SIZES USED.

CITY OF RANCHO CUCAMONGA
BUILDING & SAFETY DEPARTMENT
APPROVED
By: RJ for Zack Neighbors Date: Jan 24, 2024
Note: All contractors and subcontractors are required to obtain approval from the Business License Division before scheduling a final inspection.



PANEL NAME: SP

NEMA RATING: 1 3R
SERVICE RATED:
200% NEUTRAL BUS:
ISOLATED GND BUS:
LOCATION: OUTDOOR
MOUNTING: FREE STANDING
VOLTAGE: 120/208V 2P,3W
A.I.C. RATING: 14,000A
MAIN C.B. SIZE: 200A
BUS SIZE: 200A

	OUTLETS CL	CO	REC	MS	DESCRIPTION	LOAD (VA) PH A	PH B	PH C	C.B. P	C.B. A	LOAD (VA) P	PH A	PH B	PH C	DESCRIPTION	OUTLETS CL	CO	REC	MS	
1			6		OUTDOOR RECPET.	1080			1	20	1	146			SITE LIGHTING	14				2
3			5		OUTDOOR RECPET.		900		1	20	1		634		SITE LIGHTING	54				4
5			4		FLAME RECEPT			720	1	20	1			198	SITE LIGHTING	18				6
7					SPARE				1	20	1				SPARE					8
9					SPARE				1	20	1				SPARE					10
11					SPARE				1	20	1				SPARE					12

REFERENCE NOTES (SEE DESCRIPTION):
(1) Controlled via lighting astrotime clock
(2)
(3)
(4)

	PH A	PH B	PH C	
SUBTOTAL CONNECTED LOAD (VA)	1,226	1,534	916	TOTAL CONNECTED LOAD: 3.9 KVA
CONTINUOUS LOAD ADDITION (VA)	37	158.5	50	C.O. DEMAND REDUCTION: 0.0 KVA
25%-LARGEST MOTOR ADDER (VA)				
TOTAL CONNECTED LOAD (VA)	1,263	1,693	968	TOTAL DEMAND LOAD: 3.9 KVA
MAXIMUM LINE CURRENT (A)	10.5	14.1	8.1	AVERAGE CURRENT: 10.9 A

PANEL SCHEDULE | N.T.S | 02

GENERAL PANEL SCHEDULE NOTES:

1. WHERE PANEL IS INDICATED TO INCLUDE FEED THRU LUGS, PROVIDE FEED THROUGH LUGS AT THE OPPOSITE END OF THE PANELBOARD FROM THE PANELBOARD MAIN LUGS.
2. WHERE PANEL IS INDICATED TO INCLUDE DOUBLE LUGS, PROVIDE A DOUBLE LUG KIT AT THE SAME END OF THE PANELBOARD AS THE PANELBOARD MAIN LUGS.
3. WHERE PANEL IS INDICATED TO INCLUDE 200% NEUTRAL, PROVIDE PANELBOARDS UL LISTED AS HAVING NEUTRAL BUSSES RATED TO CARRY 200 PERCENT OF THE CURRENT CARRYING CAPACITY OF THE PHASE BUSSING. OTHERWISE, NEUTRAL BUSSING TO BE FULL SIZE AND RECTANGULAR.
4. WHERE PANEL IS INDICATED TO INCLUDE AN I/G BUS, PROVIDE PANELBOARDS WITH AN ISOLATED GROUND BUS, DRILLED AND TAPPED FOR NUMBER OF ISOLATED GROUND CONDUCTORS SHOWN, AS WELL AS FOR ALL SPARES AND SPACES SHOWN ON THE PANELBOARD.
5. WHERE PANEL CIRCUIT BREAKER RATING IS SHOWN AS SERIES RATED, PROVIDE CIRCUIT BREAKERS IN PANELBOARD WHICH ARE SERIES RATED WITH THE UPSTREAM SYSTEM FOR THE AVAILABLE FAULT CURRENT. THE PANELBOARD SHALL BE MARKED WITH THE SERIES CONNECTED RATINGS, AS WELL AS ALL MARKING AS REQUIRED BY CEC 240-83(C).
6. WHERE PANEL IS INDICATED AS RECESSED OR FLUSH MOUNTED, PROVIDE SPARE CONDUITS STUBBED UP INTO THE ACCESSIBLE CEILING SPACE. PROVIDE ONE (1) 3/4" CONDUIT ONLY FOR EACH THREE (3) SPARES OR SPACES, MINIMUM OF TWO (2). EACH CONDUIT SHALL BE TAGGED, CAPPED AND MARKED FOR FUTURE USE.
7. ALL BUSSING SHALL BE COPPER.
8. ALL CIRCUIT BREAKERS USED AS SWITCHES SHALL BE UL LISTED AND LABELED "SWD" FOR SWITCHING DUTY.
9. ALL CIRCUIT BREAKERS USED TO SERVE MECHANICAL OR HEATING EQUIPMENT SHALL BE UL LISTED AND LABELED "HACR" FOR USE WITH THESE LOADS, WHERE REQUIRED.
10. ALL CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE AND SHALL BE SUITABLE FOR 75 DEGREE AMPACITY CONDUCTORS.
11. PANELS SHALL BE OF THE DEAD FRONT SAFETY TYPE. PANELS SHALL BE MINIMUM 20" WIDE AND 5 3/4" DEEP UNLESS OTHERWISE NOTED ON PLAN.
12. COORDINATE WITH APPLICABLE TRADE TO INSURE RECESSED MOUNTED PANELBOARDS WILL SEAT FLUSH IN THE WALLS PROVIDED. PANEL TRIMS SHALL HAVE CONCEALED DOORS AND FASTENERS WITH FLUSH TYPE COMBINATION LOCK AND CATCH, TWO MILLED TYPE KEYS SUPPLIED WITH EACH PANEL. ALL LOCKS SHALL BE KEYED ALIKE AND EACH DOOR SHALL HAVE A PLASTIC COVERED DIRECTORY FRAME WITH A TYPED IDENTIFICATION CARD OF ALL CIRCUIT AND PANEL NUMBERS FOR BRANCH CIRCUIT PANELBOARDS.
13. UPON PROJECT COMPLETION, CONTRACTOR SHALL INSTALL TYPED AS-BUILT PANEL DIRECTORIES IN EACH PANEL WITHIN THE MFGR-PROVIDED DIRECTORY HOLDER. DIRECTORIES SHALL CONSIST OF LOAD DESCRIPTION AND CIRCUIT NUMBER FOR EACH CIRCUIT BASED ON AS-BUILT PANEL SCHEDULES. HANDWRITTEN DIRECTORIES ARE UNACCEPTABLE. LOCAL AHJ MAY REQUIRE COPIES OF ENGINEERED PANEL SCHEDULES BE PLACED IN PANEL DIRECTORIES. E.C. TO VERIFY REQUIREMENTS PRIOR TO BID AND INCLUDE ALL COSTS REQUIRED FOR LARGER-THAN-STANDARD CUSTOM PANEL DIRECTORY HOLDERS TO ACCOMMODATE COPIES OF ENGINEERED PANEL SCHEDULES.
14. PANELBOARDS SHALL BE MANUFACTURED BY G.E., CUTLER-HAMMER, SIEMENS, OR SQUARE "D".
15. PROVIDE SHOP DRAWING SUBMITTAL PER THE ELECTRICAL SPECIFICATION SUBMITTAL REQUIREMENTS FOR EACH PANEL DEPICTING CONFORMANCE WITH THE ABOVE NOTES AND SCHEDULES.

SPECIFIC PANEL SCHEDULE NOTES:

"A" PROVIDE LOCK-ON DEVICE.
"B" PROVIDE LOCK-OFF DEVICE
"C" PROVIDE SHUNT TRIP DEVICE
"D" PROVIDE GFCI TYPE DEVICE.
"E" PROVIDE A RED CIRCUIT BREAKER.
"F" PROVIDE A NEW BREAKER TO MATCH THE EXISTING IN PANEL.
"G" PROVIDE BREAKER INTERLOCK WITH ADJACENT BREAKER. BREAKER INTERLOCK GROUPING SHALL BE BY BRANCH CIRCUIT GROUP (i.e. MULTIPLE CIRCUITS ON A COMMON YOKE NEC 210.4(B) FURNITURE SYSTEM NEC 605.7)
"H" PROVIDE HACR BREAKER
"J" EXISTING BREAKER WITH NEW LOAD

-	(N) SP	NOTES
-	-	NOTES

KEY NOTES

1. COMMERCIAL METER PEDESTAL WITH INTEGRATED 200A PANEL, NEMA 3R ENCLOSURE.
2. TRANSFORMER -75KVA, 480V, 3Ø - 208/120V, 3Ø, 4W WITH WEATHER RATED ENCLOSURE, NEMA 3R .

SINGLE LINE DIAGRAM | 01

SINGLE LINE GENERAL NOTES

1. ALL EQUIPMENT TO BE SQUARE D OR EQUAL BY SIEMENS, CUTLER-HAMMER, G.E., OR RSC-SIERRA.
2. ALL ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH SPECIFIED AND APPROPRIATE UL LISTING BASED ON THE ENVIRONMENT IN WHICH THE EQUIPMENT IS TO BE MOUNTED.
3. ALL ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH AND BRACED FOR REQUIRED FAULT CURRENT RATINGS BASED ON THEIR VOLTAGE AND LOCATION WITHIN THE SYSTEM. SHOP DRAWINGS TO INCLUDE FAULT CURRENT RATINGS FOR ALL ELECTRICAL EQUIPMENT. NO SERIES RATING SHALL BE ALLOWED - UNLESS OTHERWISE NOTED, REFERENCED, OR EXISTING.
4. IN INSTANCES WHERE SERIES RATING IS PERMITTED, ALL SERIES RATED DEVICES SHALL HAVE BEEN INVESTIGATED BY UL IN COMBINATION WITH THE END USE EQUIPMENT AND ALL EQUIPMENT IN WHICH THESE DEVICES ARE USED SHALL BE MARKED IN ACCORDANCE WITH CEC REQUIREMENTS. SEE SPECIFICATIONS FOR MORE INFORMATION. THE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD TO INDICATE A SERIES COMBINATION RATING. WHICH SHALL BE READILY VISIBLE AND STATE THE FOLLOWING:

   CAUTION - SERIES COMBINATION SYSTEM RATED
   65,000/22,000 AMPERES. USE ONLY IDENTIFIED
   REPLACEMENT COMPONENTS IN THIS SYSTEM.

   WHERE 65,000/22,000 REPRESENTS REQUIRED SYSTEMS RATING. SEE SPECIFICATIONS FOR PLACARD REQUIREMENTS.
5. ALL TERMINATIONS AND ENCLOSURES SHALL BE RATED FOR USE WITH 75 DEGREES CELSIUS CONDUCTORS.
6. ALL SERVICE ENTRANCE EQUIPMENT/DISTRIBUTION BOARDS/SWITCHBOARDS RATED AT 600A OR GREATER SHALL BE PROVIDED WITH A SOLID STATE MAIN OVER-CURRENT PROTECTIVE DEVICE AND BUSSING RATED AT 100% OPERATION.
7. ALL SWITCH/DISTRIBUTION BOARDS SHALL BE PROVIDED WITH:

   a. COPPER BUSSING WITH RECTANGULAR CROSS SECTION. HORIZONTAL AND VERTICAL BUSSING SHALL BE FULL LENGTH AND HAVE PROVISIONS FOR FUTURE EXTENSIONS WERE APPLICABLE. ALL BUSSING SHALL HAVE A MINIMUM WITHSTAND RATING EQUAL TO AVAILABLE FAULT CURRENT INDICATED ON THE AIC CALCULATION. ALL VERTICAL AND HORIZONTAL BUSSING SHALL BE RATED AT FULL CAPACITY IN ALL SWITCHBOARD AND DISTRIBUTION BOARD ASSEMBLIES. PROVIDE 100% NEUTRAL BUSSING MINIMUM - UNLESS OTHERWISE NOTED. PROVIDE FULL LENGTH GROUND BUSS, AND WHERE INDICATED ON PLANS, ISOLATED GROUND BUSSING. PROVIDE REAR WIRE WAY IN ALL SWITCHBOARD SECTIONS - UNLESS OTHERWISE NOTED OR REQUIRED.

   b. LUGS SHALL BE SUITABLE FOR USE WITH BOTH COPPER AND ALUMINUM CONDUCTORS AND 75 DEGREE CELSIUS AMPACITY CONDUCTORS.

   c. PERMANENT PLACARDS(S) MARKED PER THE SPECIFICATIONS AND PER CEC SECTIONS 225.37, 230.2(E), 690.56(B) & (C), 692.56, 700.8, 701.9, AND 702.8 DENOTING PRESENCE OF ADDITIONAL SERVICES, PHOTOVOLTAIC SYSTEMS, FUEL CELLS, EMERGENCY OR STAND-BY POWER SOURCES, ETC. AS APPLICABLE.
8. CONTRACTOR SHALL PROVIDE SWITCHBOARD SHOP DRAWINGS TO SERVING UTILITY COMPANY PRIOR TO FABRICATION OF EQUIPMENT. CONTRACTOR SHALL SECURE CONFIRMATION PROPOSED SWITCHBOARD COMPLIES WITH ELECTRICAL UTILITY COMPANY REGULATIONS.
9. ELECTRICAL EQUIPMENT SUBMITTALS SHALL BE ACCOMPANIED BY A 1/4" = 1'-0" SCALED DRAWING WHICH REFERENCES ALL ELECTRICAL EQUIPMENT ROOMS AND EQUIPMENT. DRAWING SHALL CLEARLY IDENTIFY ADEQUATE SPACE IS PROVIDED IN ELECTRICAL ROOMS TO ACCOMMODATE THE INSTALLATION OF ELECTRICAL EQUIPMENT WHILE MAINTAINING ALL REQUIRED CODE CLEARANCES. ALL SUBMITTALS NOT ACCOMPANIED BY SCALED DRAWING WILL BE REJECTED AS INCOMPLETE.
10. EC SHALL CONDUCT, WITH ASSISTANCE OF SWITCHGEAR MANUFACTURER, AN ELECTRICAL HAZARD ANALYSIS CONSISTING OF AN ARC FLASH, SHORT CIRCUIT, AND COORDINATION STUDY TO DETERMINE APPROPRIATE LEVELS OF PERSONNEL PROTECTIVE EQUIPMENT (PPE) AS REQUIRED BY NFPA 70E AND IEEE STD 1584, AND TO ENSURE PROPER COORDINATION (INCLUDING GROUND FAULT COORDINATION) EXISTS BETWEEN ALL OVER- CURRENT PROTECTIVE DEVICES SHOWN ON SINGLE-LINE DIAGRAM. ADDITIONALLY:

    a. STUDY SHALL INCLUDE ALL PORTIONS OF ELECTRICAL SINGLE-LINE DIAGRAM. NORMAL SYSTEM CONNECTIONS AND THOSE THAT RESULT IN MAXIMUM FAULT CONDITION SHALL BE ADEQUATELY COVERED IN THE STUDY. PERFORM STUDY WITH THE AID OF A COMPUTER PROGRAM, SKM CAPTOR, OR EQUAL. STUDY SHALL IDENTIFY SELECTIVE COORDINATION SUCH THAT DEVICE CLOSEST TO FAULT WILL TRIP FIRST. GROUND FAULT PORTION OF THE STUDY SHALL DEMONSTRATE COORDINATION OF MAIN BREAKER AND ANY FEEDER GROUND FAULT DEVICES WITH DOWNSTREAM CIRCUIT BREAKERS 30A AND LESS.

    b. EC SHALL BE RESPONSIBLE TO RECOMMEND SETTINGS OF ALL DEVICES AND TO INCLUDE GROUND FAULT SETTINGS NECESSARY TO ACHIEVE SYSTEM COORDINATION. CONTRACTOR SHALL FIELD ADJUST DEVICES ACCORDINGLY UTILIZING A QUALIFIED MANUFACTURER'S REPRESENTATIVE.

    c. DURING THE CONSTRUCTION PHASE OF THE PROJECT ALL GROUND FAULT RELAYS SHALL BE SET AT SHORTEST AVAILABLE TIME DELAY.

    d. RESULT OF COORDINATION STUDY SHALL BE SUBMITTED AS PART OF OVERALL SWITCHGEAR SUBMITTAL AND SHALL INCLUDE PROTECTIVE DEVICE TIME VERSUS CURRENT COORDINATION CURVES, GROUPING APPROPRIATE DEVICES TOGETHER, TABULATIONS OF RELAY AND CIRCUIT BREAKER TRIP SETTINGS, FUSE SELECTION, AND COMMENTARY REGARDING SAME.

    e. A GROUND FAULT SYSTEM TEST SHALL BE CONDUCTED BY AN INDEPENDENT TESTING AGENCY PER CEC 230.95(C). GROUND FAULT SYSTEM TEST SHALL BE PERFORMED IN PRESENCE OF LOCAL AHJ. VERIFICATION OF DEVICE SETTINGS PER THE COORDINATION STUDY SHALL BE PERFORMED BY SAME INDEPENDENT TESTING AGENCY. GROUND FAULT TEST RESULTS SHALL BE DELIVERED TO ENGINEER OF RECORD.

    f. PERFORM ARC FLASH ANALYSIS TO DETERMINE FLASH BOUNDARY, FLASH HAZARD CATEGORY, PPE REQUIREMENTS, AND MINIMUM ARC RATING (CAL/SQUARE CM). ABOVE INFORMATION SHALL BE INDICATED AT EACH ARC FLASH SOURCE ON A CEC COMPLIANT ARC FLASH HAZARD LABEL(S) AS MANUFACTURED BY BRADY.
11. GROUND ALL ELECTRICAL EQUIPMENT, BRANCH CIRCUITS, FEEDERS, PANEL AND DISTRIBUTION BOARDS, ELECTRICAL SERVICES, ETC. PER ADOPTED CEC ARTICLE 250.
12. FEEDER SPECIFICATIONS ARE BASED ON USE OF COPPER CONDUCTORS AND SHALL BE PROVIDED WITH A CODE SIZED COPPER GROUNDING CONDUCTOR.
13. ALL MAIN SWITCHBOARDS, PANELBOARDS, DISTRIBUTION BOARDS, ETC SHALL BE PROVIDED WITH A COPPER BUSS RATED AT SPECIFIED AMPACITY. ALL SWITCHBOARDS AND DISTRIBUTION BOARDS SHALL ALIGN IN FRONT. ALL PANELBOARDS SHALL BE PROVIDED WITH BOLT-ON BREAKERS, DEADFRONT COVERS WITH LOCKABLE DOORS, FACTORY INSTALLED MAIN CIRCUIT BREAKERS (IF APPLICABLE), AND PANEL DIRECTORY PER THESE DOCUMENTS.
14. TRANSIENT VOLTAGE SURGE PROTECTION SHALL BE PROVIDED IN ALL MAIN SWITCHGEAR AND DISTRIBUTION BOARD UNLESS OTHERWISE NOTED OR IDENTIFIED ON DRAWINGS. COORDINATE WITH LOCAL UTILITY COMPANY.
15. ALL PANELBOARDS INSTALLED IN GARAGES OR AREAS COMPLYING WITH ARTICLE 500, 511, AND/OR 514 SHALL BE INSTALLED 18" ABOVE FLOOR LINE TO BOTTOM OF PANEL AND SHALL BE IN MULTIPLE PANELS AS REQUIRED WITH TOP MOST BREAKER NO HIGHER THAN 6'-7" A.F.F. PER ARTICLE 380.
16. ALL ELECTRICAL EQUIPMENT (I.E. SWITCHGEAR, TRANSFORMERS, DISTRIBUTION BOARDS, PANELBOARDS, DISCONNECT SWITCHES, ETC.) SHALL BE PROVIDED WITH A PHENOLIC NAMEPLATE WITH ENGRAVED WHITE LETTERS REFERENCING FOLLOWING INFORMATION:

    LINE 1 - "EQUIPMENT NAME"
    LINE 2 - "FED FROM . ."
    LINE 3 - "VOLTAGE, AMPACITY, PHASE"
    LINE 4 - "DATE INSTALLED"

    NAMEPLATES SHALL BE SIZED BASED ON FOLLOWING:

    SWITCHBOARDS, DISTRIBUTION BOARDS, TRANSFORMERS:
    * LINE 1 = 1/2" LETTERS, LINES 2, 3, & 4 = 1/4" LETTERS

    PANELBOARDS, MOTOR CONTROL CENTERS, DISCONNECTS, STARTERS, ETC:
    * LINE 1 = 3/8" LETTERS, LINES 2, 3, & 4 = 1/4" LETTERS

    NAMEPLATE COLORS SHALL BE AS FOLLOWS:

    BLACK = NORMAL POWER
    RED = LIFE SAFETY/EMERGENCY POWER
    BLUE = STANDBY POWER
    GREEN = INVERTOR POWER

    ALL NAMEPLATES SHALL BE FASTENED WITH A MINIMUM OF TWO (2) MACHINE SCREWS. NO SELF ADHESIVE NAMEPLATES ARE ALLOWED.
17. ELECTRICAL DESIGN COMPUTES VOLTAGE DROP BASED ON FEEDER LENGTHS REFERENCED ON SINGLE-LINE DIAGRAM. EC TO NOTIFY ENGINEER OF RECORD IN EVENT FIELD CONDITIONS CAUSE A SUBSTANTIAL INCREASE IN OVERALL FEEDER LENGTH.
18. ANY FLOOR-STANDING ELECTRICAL EQUIPMENT (I.E. INVERTERS, DISTRIBUTION BOARDS, SWITCHBOARDS, ATS SWITCHES, MOTOR CONTROL CENTERS, ETC.) WHICH ARE MOUNTED AT/BELOW GRADE AND/OR SUSCEPTIBLE TO WATER DAMAGE SHALL BE MOUNTED ON A MINIMUM 4" HIGH HOUSEKEEPING PAD WHICH EXTENDS 4" BEYOND EQUIPMENT IN ALL DIRECTIONS.
19. ALL MOTOR RELATED CIRCUITS ARE TO BE PROVIDED WITH PROTECTIVE RELAYS FOR PHASE FAILURE AND UNDER-VOLTAGE.
20. ELECTRICAL CONTRACTOR TO INCLUDE IN BID ALL ASSOCIATED COSTS FOR THIRD PARTY TESTING OF ELECTRICAL EQUIPMENT, GROUND FAULT, CONDUCTORS, ETC..
21. ALL FEEDER DISTANCES REFERENCED ON DRAWINGS ARE FOR DESIGN PURPOSES ONLY. LENGTHS AS INDICATED ARE NOT TO BE UTILIZED IN MATERIAL TAKE-OFFS.

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue,
Suite 100
Irvine, California 92617

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

REGISTERED PROFESSIONAL ENGINEER STEPHEN M. KAY E-17415 9/30/24 ELECTRICAL STATE OF CALIFORNIA

This document and all other project documents, ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are copyright protected, are the property of LPA, Inc. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as set forth in the contractual agreement between LPA and its Client. The unauthorized disclosure and/or use of the project documents (including the creation of derivative works), may give rise to liability for copyright infringement, unlawful disclosure, use or misappropriation of property rights held by LPA. The unauthorized use of the project documents will give rise to the recovery of monetary losses and damages including attorney fees and costs for which the unauthorized user will be held liable.
Project documents describe the design intent of the work and are not a representation of as-built or existing conditions. LPA is not responsible for any discrepancies between the project documents and the existing conditions.
© LPA, Inc.

MEMORIAL PARK
10597 TOWN CENTER DRIVE
RANCHO CUCAMONGA, CA 91730
Developed for
CITY OF RANCHO CUCAMONGA

Revision	Date

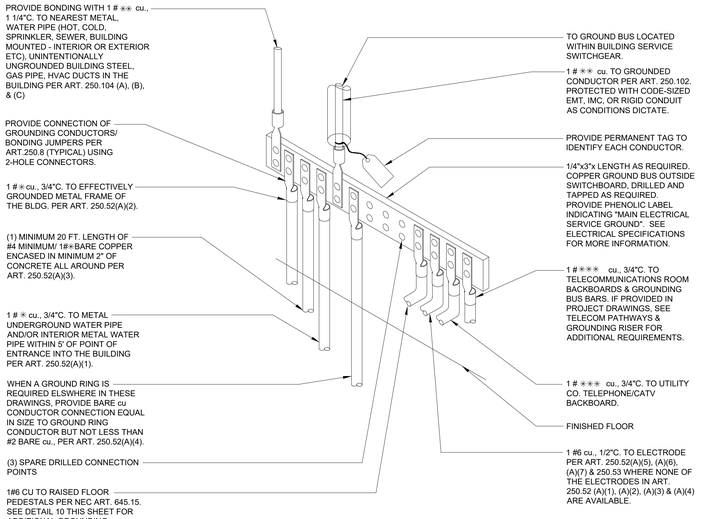
Submittal	Date
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/21/2023
50% CD	10/06/2023
100% CD	11/03/2023

Job Number	30548.02
Date Published	11/03/2023
Checked By	JY,KG,FT
Scale	

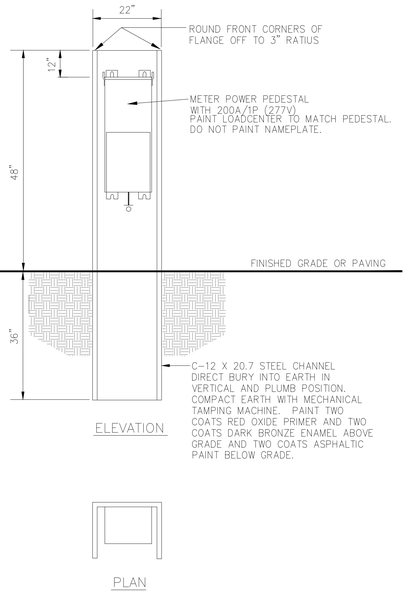
SINGLE LINE DIAGRAM, FEEDER AND PANEL SCHEDULES

E6.00

∗∗∗	TELECOMMUNICATIONS GROUND CONDUCTOR MINIMUM SIZE SHALL BE BASED ON DISTANCE BETWEEN TELECOMMUNICATIONS ROOM AND SYSTEM GROUNDING BUS BAR AS FOLLOWS: 0-200 FT. #1/0 OVER 200 FT. #3/0
∗∗	MAIN BONDING JUMPER SHALL BE SIZED AS FOLLOWS: SERVICE SIZE — M.B.J. SIZE 0-1,000A — #3/0 1,200A — #4/0 1,600A — #250KCMIL 2,000A — #300KCMIL 2,500A — #500KCMIL 3,000A — #500KCMIL 4,000A — #600KCMIL
∗	GROUNDING ELECTRODE CONDUCTOR SHALL BE SIZED AS FOLLOWS: SERVICE SIZE — G.E.C. SIZE 0-200A — #4 201-400A — #1/0 OVER 401A — #3/0



MAIN SYSTEM GROUND BUS DETAIL - "MSGB" | 06



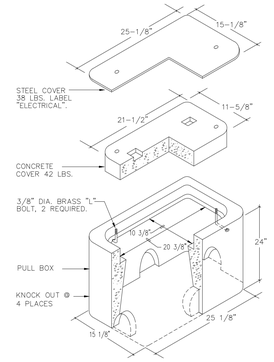
CITY OF RANCHO CUCAMONGA
BUILDING & SAFETY DEPARTMENT

APPROVED

By: RJ for Zack Neighbors Date: Jan 24, 2024

Note: All contractors and subcontractors are required to obtain approval from the Business License Division before scheduling a final inspection.

METER POWER PEDISTAL | 04

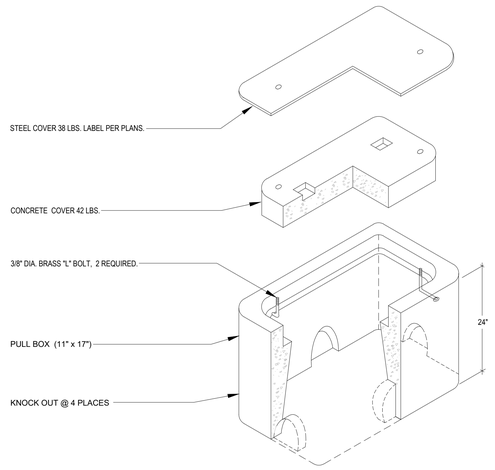


PULL BOX NOTES

1. ALL BOXES SHALL BE SET ON A MINIMUM 8" GRAVEL BASE WITH 1/2" DIAMETER GRAVEL.
2. ALL INCIDENTAL CONCRETE SHALL BE REMOVED FROM BOXES.
3. ALL CONDUITS SHALL HAVE RIGID STEEL RISERS TERMINATING 4" BELOW THE COVER OF THE PULLBOX.
4. THE RIGID STEEL SHALL BE WRAPPED W/ 2", HALF-LAPPED 3M INSULATING TAPE OR APPROVED BITUMINOUS COATING (ALL SURFACES). SUBMIT METHOD FOR APPROVAL.
5. PROVIDE WATERTIGHT SPLICES AND CAPS FOR COMMUNICATION AND POWER CONDUCTORS.
6. PROVIDE SEALING GEL IN ALL CONDUITS (BOTH W/ CONDUCTORS AND IN EMPTY SPARE CONDUITS). THE GEL SHALL BE INSERTED IN THE CONDUIT TO A DEPTH OF 6" AND FLUSH W/ THE END OF THE CONDUIT. THE GEL SHALL BE MANUFACTURED BY WATERGUARD INDUSTRIES, GZ/GEDNEY, OR 3M,INC.
7. PROVIDE INDENTIFYING TAGS ON ALL POWER AND COMMUNICATION CONDUCTORS IN PULLBOXES.

S SITE BRANCH CIRCUITING

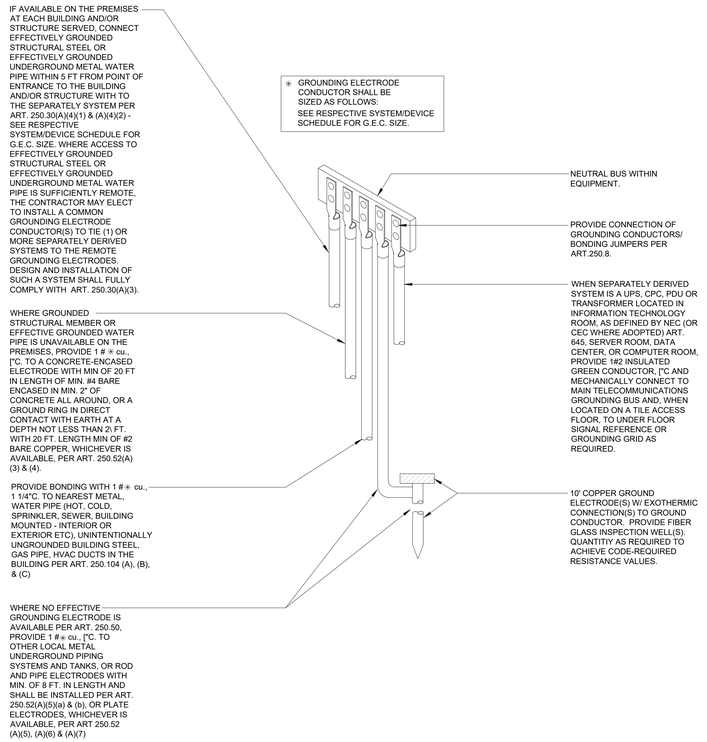
PULL BOX DETAIL | 01



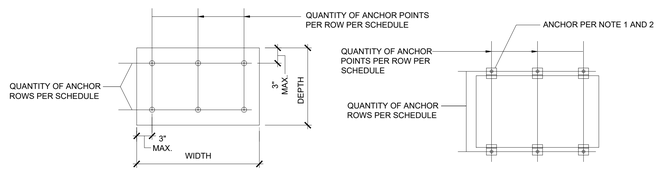
PULL BOX NOTES

1. ALL BOXES SHALL BE SET ON A MINIMUM 8" GRAVEL BASE WITH 1/2" DIAMETER GRAVEL.
2. ALL INCIDENTAL CONCRETE SHALL BE REMOVED FROM BOXES.
3. ALL CONDUITS SHALL HAVE RIGID STEEL RISERS TERMINATING 4" BELOW THE COVER OF THE PULLBOX.
4. THE RIGID STEEL SHALL BE WRAPPED W/2", HALF-LAPPED 3M INSULATING TAPE OR APPROVED BITUMINOUS COATING (ALL SURFACES). SUBMIT METHOD FOR APPROVAL.
5. PROVIDE WATERTIGHT SPLICES AND CAPS FOR COMMUNICATION AND POWER CONDUCTORS.
6. PROVIDE SEALING GEL IN ALL CONDUITS (BOTH W/ CONDUCTORS AND IN EMPTY SPARE CONDUITS.) THE GEL SHALL BE INSERTED IN THE CONDUIT TO A DEPTH OF 6" AND FLUSH WITH THE END OF THE CONDUIT. THE GEL SHALL BE MANUFACTURED BY WATERGUARD INDUSTRIES ONLY.
7. PROVIDE IDENTIFYING TAGS ON ALL POWER AND COMMUNICATION CONDUCTORS IN PULLBOXES.
8. SEE PULL-BOX/MAN-HOLE GROUNDING DETAIL FOR ADDITIONAL GROUNDING INFORMATION.

11" x 17" PULL BOX DETAIL | 02

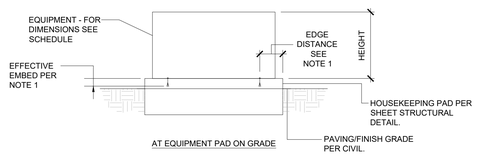


INVERTER/SEPARATELY DERIVED SYSTEM GROUNDING DETAIL | 07



PLAN VIEW INTERIOR MOUNTING

PLAN VIEW EXTERIOR MOUNTING



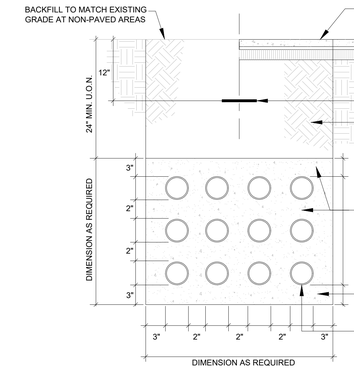
TYPICAL ELEVATIONS

ANCHORAGE SCHEDULE - FLOOR MOUNTED EQUIPMENT

EQUIPMENT	WEIGHT (lbs)	HEIGHT (in)	WIDTH (in)	DEPTH (in)	MECHANICAL ANCHORS (SEE NOTE G ON S0.01) - SEE NOTE 1 THRU 4			
					MECH'L ANCH. Ø	QUANTITY OF ANCHOR ROWS	QUANTITY OF ANCHOR POINTS PER ROW	QUANTITY OF ANCHS. PER POINT
PEDESTAL	#	#	#	#	#"	#	#	#
-	-	-	-	-	-"	-	-	-
-	-	-	-	-	-"	-	-	-

NOTES:
1. AT MECHANICAL UNITS W/ ANCHOR POINTS PER MANUFACTURER. HOLE DIAMETER NOT TO EXCEED BOLT DIAMETER +1/8", PROVIDE LARGER ANCHOR DIAMETER AS REQUIRED.
2.
   2.a. FOR 3/8" DIA. HILTI KB TZ. PROVIDE MIN. 2 3/4" EMBED. MIN. 5" THICK CONCRETE, MIN. 4" EDGE DISTANCE. AND MIN. 6" SPACING IN MIN. 4,000 PSI NORMAL WT. CONCRETE AT PAD.
   2.b. FOR 1/2" DIA. HILTI KB TZ. PROVIDE MIN. 3 1/4" EMBED. MIN. 6" THICK CONCRETE, MIN. 6" EDGE DISTANCE. AND MIN. 6" SPACING IN MIN. 4,000 PSI NORMAL WT. CONCRETE AT PAD.
3. PROVIDE STAINLESS STEEL (SS) ANCHORS WHERE EXPOSED TO WEATHER/MOISTURE.
4. ALL OTHER UNITS (150# MAX.) ARE PERMITTED TO USE 3/8"Ø x 1 5/8" LONG HILTI KWIK HUS-EZ PER ICC ESR-3027. PROVIDE A MIN. OF 3" EDGE DISTANCE ON A 4" NORMAL WT. CONCRETE HOUSE KEEPING PAD (f'c = 4,000 psi)

TYPICAL BOTTOM MOUNTED EQUIPMENT SCHEDULE AND DETAILS | 05



UNDERGROUND DUCTBANK SECTION (DIRECT BURIAL) | 03

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue, Suite 100
Irvine, California 92617

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

REGISTERED PROFESSIONAL ENGINEER STEPHEN M. KAY E-17415 9/30/24 ELECTRICAL STATE OF CALIFORNIA

This document and all other project documents, ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are copyright protected, are the property of LPA, Inc. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as set forth in the contractual agreement between LPA and its Client. The unauthorized disclosure and/or use of the project documents (including the creation of derivative works), may give rise to liability for copyright infringement, unlawful disclosure, use or misappropriation of property rights held by LPA. The unauthorized use of the project documents will give rise to the recovery of monetary losses and damages including attorney fees and costs for which the unauthorized user will be held liable.
Project documents describe the design intent of the work and are not a representation of as-built or existing conditions. LPA is not responsible for any discrepancies between the project documents and the existing conditions.
© LPA, Inc.

MEMORIAL PARK
10597 TOWN CENTER DRIVE
RANCHO CUCAMONGA, CA 91730
Developed for
CITY OF RANCHO CUCAMONGA

Revision	Date

Submittal	Date
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/21/2023
50% CD	10/06/2023
100% CD	11/03/2023

Job Number	30548.02
Date Published	11/03/2023
Checked By	JY,KG,FT
Scale	

ELECTRICAL DETAILS

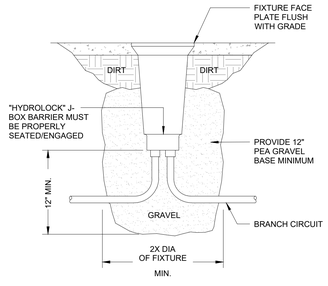
E7.00

CITY OF RANCHO CUCAMONGA
BUILDING & SAFETY DEPARTMENT

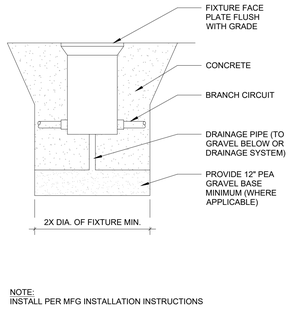
APPROVED

By: RJ for Zack Neighbors Date: Jan 24, 2024

Note: All contractors and subcontractors are required to obtain approval from the Business License Division before scheduling a final inspection.

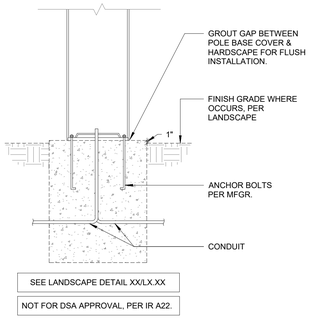


IN-GRADE FIXTURE AT SOFTSCAPE | N.T.S. | 17



NOTE:
INSTALL PER MFG INSTALLATION INSTRUCTIONS

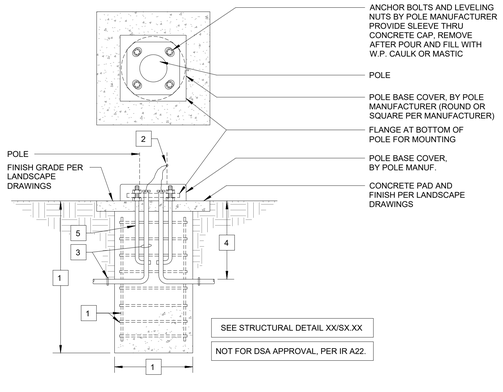
INGRADE UPLIGHT AT CONCRETE | N.T.S | 09



BOLLARD WITH CONCRETE PAD | N.T.S. | 02

NOTES

1. REFER TO STRUCTURAL DRAWINGS.
2. BOND EQUIPMENT GROUND TO POLE.
3. BRANCH CIRCUIT CONDUIT PER SITE PLAN.
4. PROVIDE MINIMUM COVER OF 24" FROM FINISH GRADE.
5. POLE ANCHOR BOLTS PER MANUFACTURER SPEC'S. (PROVIDE EXTENDED BOLTS FOR THRU CONCRETE PAD)



POLE WITH CONCRETE PAD | N.T.S. | 01

DESIGN-BUILD TEAM

LPA, INC.

ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING

949-261-1001 Office

949-260-1190 Fax

LPADesignStudios.com

5301 California Avenue,
Suite 100
Irvine, California 92617

AMG & ASSOCIATES

661-251-7401 Office

AMGAssociates.com

26535 Summit Circle
Santa Clarita, CA 91350

REGISTERED PROFESSIONAL ENGINEER
STEPHEN DAVIS
E-17415
9/30/24
ELECTRICAL
STATE OF CALIFORNIA

This document and all other project documents, ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are copyright protected, are the property of LPA, Inc. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as set forth in the contractual agreement between LPA and its Client. The unauthorized disclosure and/or use of the project documents (including the creation of derivative works), may give rise to liability for copyright infringement, unlawful disclosure, use or misappropriation of property rights held by LPA. The unauthorized use of the project documents will give rise to the recovery of monetary losses and damages including attorney fees and costs for which the unauthorized user will be held liable.
Project documents describe the design intent of the work and are not a representation of as-built or existing conditions. LPA is not responsible for any discrepancies between the project documents and the existing conditions.

© LPA, Inc.

MEMORIAL PARK

10597 TOWN CENTER DRIVE
RANCHO CUCAMONGA, CA 91730

Developed for
CITY OF RANCHO CUCAMONGA

Revision	Date

Submittal	Date
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/21/2023
50% CD	10/06/2023
100% CD	11/03/2023

Job Number	30548.02
Date Published	11/03/2023
Checked By	JY,KG,FT
Scale	

LIGHTING DETAILS

E7.01

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: FS178 MEMORIAL PARK	Report Page:	(Page 1 of 8)
Project Address: 10597 TOWN CENTER DRIVE	Date Prepared:	11/1/2023

CITY OF RANCHO CUCAMONGA
BUILDING & SAFETY DIVISION
APPROVED
By: RJ for Zack Neighbors Date: Jan 24, 2024
Note: All contractors and subcontractors are required to obtain approval from the Building & Safety Division before scheduling a final inspection.

A. GENERAL INFORMATION

01	Project Location (city)	RANCHO CUCAMONGA	04	Total Illuminated Hardscape Area (ft²)	47491
02	Climate Zone	10			
03	Outdoor Lighting Zone per Title 24 Part 1	10.114 or as designated by Authority Having Jurisdiction (AHJ):			
	☐ LZ-1: Very Low - Undeveloped Parkland	☐ LZ-2: Moderate - Urban Clusters	☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval		
	☐ LZ-1: Low - Rural Areas	☒ LZ-3: Moderately High - Urban Areas			
05	Occupancy Types within Project				
	☐ Mixed Occupancies				

B. PROJECT SCOPE

This table describes the outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 and 130.0(c)1, 130.0(c)2, 130.2(b)4Bv for alterations.

My Project Consists of:

01	02		
☒	New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6	
☐	Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	○ Yes ○ No
03		04	05
% of Existing Luminaires Being Altered[1]		Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%			

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.*

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: FS178 MEMORIAL PARK	Report Page:	(Page 2 of 8)
	Date Prepared:	11/1/2023

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D, Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv												Compliance Results		
01		02		03		04		05	OR	06	=	07	≥	08	09
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)		**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
1,415	+	---	+	---	+	---	+	280	OR	---	=	1,695	≥	624	COMPLIES
Shielding Compliance (See Table G for Details)															N/A
Controls Compliance (See Table H for Details)															COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: FS178 MEMORIAL PARK	Report Page:	(Page 3 of 8)
	Date Prepared:	11/1/2023

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02	03	How is Wattage determined	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Watts per luminaire[1,2]		Total Number Luminaires[2]	Luminaire Status[3]	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)1[4]	Field Inspector	
									Pass	Fail
ZB1	ZB1 ☐ Linear	10	Mfr. Spec	28	New	☐	280	NA: < 6200 lumens	☐	☐
ZN1	ZN1 ☐ Linear	16	Mfr. Spec	4	New	☐	64	NA: < 6200 lumens	☐	☐
ZU1	ZU1 ☐ Linear	14	Mfr. Spec	7	New	☒	---	NA: < 6200 lumens	☐	☐
ZU2	ZU2 ☐ Linear	36	Mfr. Spec	4	New	☒	---	NA: < 6200 lumens	☐	☐
ZU3	ZU3 ☐ Linear	4	Mfr. Spec	8	New	☒	---	NA: < 6200 lumens	☐	☐
ZW1	ZW1 ☐ Linear	8	Mfr. Spec	35	New	☐	280	NA: < 6200 lumens	☐	☐
						Total Design Watts:	624			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)*
[2] *For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*
[3] *Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.*

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: FS178 MEMORIAL PARK	Report Page:	(Page 4 of 8)
	Date Prepared:	11/1/2023

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02	03	04	05	06	07	08	09	10

[4] *Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)*

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For exemption projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector	
				Pass	Fail
WALKWAY/OUTDOOR COVER	Astronomical Timer	Provided	FacadeGTE24Ft	☐	☐

[1] *FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.*
[2] *Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.*
[3] *Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.*

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: FS178 MEMORIAL PARK	Report Page:	(Page 5 of 8)
	Date Prepared:	11/1/2023

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.
Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

	01				
	"Use it or lose it" Allowance (select all that apply) (select all that apply)				
☒ General Hardscape Allowance Table I (below)	☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☒ Per Specific Area Table M	

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Total General AWA + LWA (Watts)
	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
FS178 MEMORIAL PARK WALKWAY	47491	0.021	997.3	839	0.2	167.8	1165
					Initial Wattage Allowance for Entire Site (Watts):		250
					Instances of Initial Wattage Allowance (LZ 0 only)[1]		
					Total General Hardscape Allowance (Watts):		1415

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: FS178 MEMORIAL PARK	Report Page:	(Page 6 of 8)
	Date Prepared:	11/1/2023

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This table includes areas using the wattage allowance per specific area from Table 140.7-B /Table 170.2-S. More than one specific area allowance may be taken in a single project, if applicable. However, multiple specific area allowances may not be taken for the exact same area on the site.

01	02	03	04	05	06	07	08	09	10
Area Description	Specific Area Type per Table 140.7-B	CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				Additional Allowance (Watts)
		Specific Area (ft²)[1]	Allowed Density (W/ft²)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	
FS178 MEMORIAL PARK OUTDOOR COVER	NonSalesCanopy	10931	0.3	2951.4	ZW1	8	35	280	280
							Total Design Watts for this Area:	280	
							Total Allowance (Watts) All Areas:	280	

[1] *FOOTNOTES: See Table 140.7-B /Table 170.2-S for rules for calculating the specific areas (ft² for these additional lighting allowances.*
[2] *For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.*

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTO-E - Must be submitted for all buildings

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: FS178 MEMORIAL PARK	Report Page:	(Page 7 of 8)
	Date Prepared:	11/1/2023

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	WALKWAY/OUTDOOR COVER;

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: FS178 MEMORIAL PARK	Report Page:	(Page 8 of 8)
Project Address: 10597 TOWN CENTER DRIVE	Date Prepared:	11/1/2023

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: STEVE BAKIN	Documentation Author Signature:
Company: LPA INC.	Signature Date: 2023-11-01
Address: 5301 CALIFORNA AVE	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: IRVINE CA 92617	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: STEVE BAKIN	Responsible Designer Signature:
Company: LPA INC.	Date Signed: 2023-11-01
Address: 5301 CALIFORNA AVE	License: E-17415
City/State/Zip: IRVINE CA 92617	Phone: 949-261-1001

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue,
Suite 100
Irvine, California 92617

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

REGISTERED PROFESSIONAL ENGINEER STEPHEN BAKIN E-17415 9/30/24 ELECTRICAL STATE OF CALIFORNIA

This document and all other project documents, ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are copyright protected, are the property of LPA, Inc. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as set forth in the contractual agreement between LPA and its Client. The unauthorized disclosure and/or use of the project documents (including the creation of derivative works), may give rise to liability for copyright infringement, unlawful disclosure, use or misappropriation of property rights held by LPA. The unauthorized use of the project documents will give rise to the recovery of monetary losses and damages including attorney fees and costs for which the unauthorized user will be held liable. Project documents describe the design intent of the work and are not a representation of as-built or existing conditions. LPA is not responsible for any discrepancies between the project documents and the existing conditions.

© LPA, Inc.

Revision	Date

Submittal	Date
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/21/2023
50% CD	10/06/2023
100% CD	11/03/2023

Job Number	30548.02
Date Published	11/03/2023
Checked By	JY,KG,FT
Scale	

ENERGY COMPLIANCE FORMS

E9.01

MEMORIAL PARK
10597 TOWN CENTER DRIVE
RANCHO CUCAMONGA, CA 91730
Developed for
CITY OF RANCHO CUCAMONGA

ANNOTATIONS

A — PANEL CALLOUT, "A" INDICATES PANELBOARD OR EQUIPMENT DESIGNATION.

AC / 2 — MECHANICAL EQUIPMENT CALLOUT, "AC" INDICATES UNIT TYPE AND "2" INDICATES UNIT NUMBER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ELECTRICAL REQUIREMENTS.

3 / E-1 — DETAIL CALLOUT, "3" INDICATES DETAIL NUMBER "E-1" INDICATES SHEET NUMBER.

2 — PLAN NOTE REFERENCE, REFER TO NOTES ON SHEET, OR AS DIRECTED.

4 — REVISION REFERENCE.

WYE CONFIGURATION — DELTA CONFIGURATION — GROUND

CCTV SYSTEM SYMBOLS

CCTV — CLOSED CIRCUIT TELEVISION CONTROL PANEL - SEE SPECIFICATIONS.

CPS — CLOSED CIRCUIT TELEVISION POWER SUPPLY - SEE SPECIFICATIONS.

CCTV FIXED POSITION CAMERA - SEE SPECIFICATIONS.

CCTV PAN/TILT CAMERA - SEE SPECIFICATIONS.

VA — CCTV VIDEO AMPLIFIER - SEE SPECIFICATIONS.

VM — CCTV VIDEO MONITOR - SEE SPECIFICATIONS.

—CC— CCTV SYSTEM BRANCH CIRCUIT PER CCTV SYSTEM RISER DIAGRAM AND/OR SPECIFICATIONS.

TELEPHONE/DATA SYMBOLS

VOIP TELEPHONE OUTLET BOX, WALL MOUNTED. STUB A 1" C. (WITH CONDUCTORS) UP 6" ABOVE THE NEAREST ACCESSIBLE CEILING OR TO NEAREST HEAD-END EQUIPMENT AS REQUIRED. 4S/DP MINIMUM WITH SINGLE GANG RING. PROVIDE CABLING BACK TO NEAREST HEAD-END UTILIZING CONDUIT SLEEVES.

"W" = WALL MOUNTED PHONE

"C" = CONVENTIONAL TELEPHONE/FAX OUTLET

DATA OUTLET BOX, WALL MOUNTED. STUB A 1" C. (WITH CONDUCTORS) UP 6" ABOVE THE NEAREST ACCESSIBLE CEILING OR TO NEAREST HEAD-END EQUIPMENT AS REQUIRED. 4S/DP MINIMUM WITH SINGLE GANG RING. PROVIDE CABLING BACK TO NEAREST HEAD-END UTILIZING CONDUIT SLEEVES.

COMBINATION VOIP TELEPHONE AND DATA OUTLET BOX, WALL MOUNTED. STUB A 1- 1/4"C. (WITH CONDUCTORS) UP 6" ABOVE THE NEAREST ACCESSIBLE CEILING OR TO NEAREST HEAD-END EQUIPMENT AS REQUIRED. 4S/DP MINIMUM WITH SINGLE GANG RING. PROVIDE CABLING BACK TO NEAREST HEAD-END UTILIZING CONDUIT SLEEVES.

DATA OUTLET BOX FLUSH MOUNTED IN CEILING - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL. PROVIDE 1"C. (WITH CONDUCTORS) UP 6" ABOVE THE ACCESSIBLE CEILING OR TO NEAREST HEAD-END EQUIPMENT AS REQUIRED. PROVIDE CABLING BACK TO NEAREST HEAD-END UTILIZING CONDUIT SLEEVES.

VOIP TELEPHONE OUTLET BOX, WALL MOUNTED 6" ABOVE COUNTER OR SPLASH. STUB A 1" C. (WITH CONDUCTORS) UP 6" ABOVE THE NEAREST ACCESSIBLE CEILING OR TO NEAREST HEAD-END EQUIPMENT AS REQUIRED. 4S/DP MINIMUM WITH SINGLE GANG RING. PROVIDE CABLING BACK TO NEAREST HEAD-END UTILIZING CONDUIT SLEEVES.

DATA OUTLET BOX, WALL MOUNTED 6" ABOVE COUNTER OR SPLASH. STUB A 1"C. (WITH CONDUCTORS) UP 6" ABOVE THE NEAREST ACCESSIBLE CEILING OR TO NEAREST HEAD-END EQUIPMENT AS REQUIRED. 4S/DP MINIMUM WITH SINGLE GANG RING. PROVIDE CABLING BACK TO NEAREST HEAD-END UTILIZING CONDUIT SLEEVES.

COMBINATION VOIP TELEPHONE AND DATA OUTLET BOX, WALL MOUNTED 6" ABOVE COUNTER OR SPLASH. STUB A 1" C. (WITH CONDUCTORS) UP 6" ABOVE THE NEAREST ACCESSIBLE CEILING OR TO NEAREST HEAD-END EQUIPMENT AS REQUIRED. 4S/DP MINIMUM WITH SINGLE GANG RING. PROVIDE CABLING BACK TO NEAREST HEAD-END UTILIZING CONDUIT SLEEVES.

—D— CONCEALED TELEPHONE/DATA CONDUIT RUN, 1" CONDUIT (MIN), WITH CONDUCTORS. SEE TABLE FOR CONDUIT SIZE VARIATIONS.

D1 = 1" C. D2 = 1" C. D3 = 1 1/4" C.
D4 = 1 1/4" C. D5 = 1 1/2" C. D6 = 1 1/2" C.
D8 = 2" C.

FLUSH MOUNTED, LOCKABLE TERMINAL CABINET WITH TERMINAL STRIPS AS REQUIRED.

SURFACE MOUNTED, LOCKABLE TERMINAL CABINET WITH TERMINAL STRIPS AS REQUIRED.

TELEPHONE TERMINAL BACKBOARD SIZED AS NOTED, REFER TO SYSTEM GROUND DETAIL.

REQUIRED SPECIFICATION DEVIATIONS

THE FOLLOWING ITEM(S) ARE REQUIRED DEVIATIONS FROM THE DRAWINGS AND SPECIFICATIONS AND SHOULD BE INCLUDED AS PART OF THE BASE BID. THESE DEVIATIONS ARE AT THE DIRECTION OF THE OWNER:

NONE

DEDUCTIVE/ADDITIVE ALTERNATE PRICING

IN ADDITION TO ANY DEDUCTIVE OR ADDITIVE LINE ITEM PRICING CALLED FOR ON THE DRAWING OR IN THE SPECIFICATIONS, CONTRACTOR SHALL PROVIDE SEPARATE LINE ITEM DEDUCTIVE/ ADDITIVE ALTERNATE PRICING FOR EACH OF THE FOLLOWING ITEM(S):

NONE

ALLOWED SPECIFICATION DEVIATIONS

THE FOLLOWING ITEM(S) ARE ALLOWED DEVIATIONS FROM THE DRAWINGS AND SPECIFICATIONS. THESE DEVIATIONS ARE AT THE DIRECTION OF THE OWNER:

NONE

CITY OF RANCHO CUCAMONGA
BUILDING & SAFETY DEPARTMENT

APPROVED

By: RJ for Zack Neighbors Date: Jan 24, 2024

Note: All contractors and subcontractors are required to obtain approval from the Business License Division before scheduling a final inspection.

ABBREVIATIONS

4S/DP	4" SQUARE BY 2-1/8" DEEP BOX
ADA	AMERICAN WITH DISABILITIES ACT
A.F.F.	ABOVE FINISH FLOOR
A.F.G.	ABOVE FINISH GRADE
AWG	AMERICAN WIRE GAUGE
AMP, A	AMPERE
A.I.C.	AMPERES INTERRUPTING CAPACITY (SYMMETRICAL)
AF/AT	AMP FRAME, AMP TRIP
AHJ	AUTHORITY HAVING JURISDICTION
AS/AF	AMP SWITCH, AMP FUSE
ATS	AUTOMATIC TRANSFER SWITCH
AVG	AVERAGE
BJ	BONDING JUMPER
BDF	BUILDING DISTRIBUTION FRAME
BR	BRANCH
BLDG	BUILDING
CBC	CALIFORNIA BUILDING CODE
CEC	CALIFORNIA ELECTRICAL CODE
CIRC., CKT.	CIRCUIT
CB	CIRCUIT BREAKER
CSFD	COMBINATION SMOKE FIRE DAMPER
C	CONDUIT
C.O.	CONDUIT ONLY, COMPLETE WITH PULLSTRING
CONN	CONNECTED
CPT	CONTROL POWER TRANSFORMER
CLCB	CURRENT LIMITING CIRCUIT BREAKER
CLF	CURRENT LIMITING FUSE
CT	CURRENT TRANSFORMER
(D)	EXISTING DEVICE TO BE DEMOLISHED
DIA	DIAMETER
DISC	DISCONNECT
DIST	DISTRIBUTION
E.C.	ELECTRICAL CONTRACTOR
EMS	ENERGY MANAGEMENT CONTROL SYSTEM
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NON-METALLIC TUBING
EWC	ELECTRIC WATER COOLER
E.P.O.	EMERGENCY POWER OFF
E-O-L	END-OF-LINE CIRCUIT TERMINATOR
EF	EXHAUST FAN
EGC or EG or E/G	EQUIPMENT GROUND (GREEN)
(E)	EXISTING DEVICE TO REMAIN
EP	EXPLOSION PROOF
(ER)	EXISTING DEVICE TO BE RELOCATED
FT or '	FEET
FA	FIRE ALARM
FLA	FULL LOAD AMPS
GRD	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GE or GEC	GROUNDING ELECTRODE CONDUCTOR
HACR	HEATING AIR CONDITIONING REFRIGERATION
HOA	HAND-OFF-AUTO
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
H.,W.,D.,L.	HEIGHT, WIDTH, DEPTH, LENGTH
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
IN. or "	INCHES
I/G	ISOLATED GROUND
IBC	INTERNATIONAL BUILDING CODE
IDF	INTERMEDIATE DISTRIBUTION FRAME
JBOX	JUNCTION BOX
K	DEGREE KELVIN
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERES
KW	KILOWATT
KWH	KILOWATT HOUR
LCL	LONG CONTINUOUS LOAD
LF, L.F.	LINEAR FEET
LTG, LTS	LIGHTING
LPS	LOW PRESSURE SODIUM
MAX.	MAXIMUM
MBJ	MAIN BONDING JUMPER
MDF	MAIN DISTRIBUTION FRAME
MOCP	MAXIMUM OVERCURRENT PROTECTION
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
M.C.	MECHANICAL CONTRACTOR
M	METER
M/M	METER MAIN
MV	MERCURY VAPOR
MH	METAL HALIDE
MIN.	MINIMUM
MCA	MINIMUM CIRCUIT AMPS
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MCP	MOTOR CIRCUIT PROTECTOR
MFR.	MANUFACTURER
MTD	MOUNTED
MW	MICROWAVE
NATS	NON AUTOMATIC DISCONNECT
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS' ASSOCIATION
NC	NORMALLY CLOSED
NO	NORMALLY OPENED
NF	NON-FUSED
NIC	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NL	NIGHT LIGHT
NO. or #	NUMBER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
%Z	PERCENT IMPEDANCE
PH. or ø	PHASE
PC	PHOTOCELL
P.C.	PLUMBING CONTRACTOR
P	POLE
PVC	POLY VINYL CHLORIDE
PDU	POWER DISTRIBUTION UNIT
PRIMARY	OVER 600 VOLTS
PROVIDE	FURNISH, INSTALL AND CONNECT
PT	POTENTIAL TRANSFORMER
PA	PUBLIC ADDRESS
(R)	DENOTES RELOCATED DEVICE LOCATION.
REC, RECEPT	RECEPTACLE
REF	REFRIGERATOR
RGS	RIGID GALVANIZED STEEL
RMS	ROOT MEAN SQUARE
SCC	SHORT CIRCUIT CURRENT
SCS	STRUCTURED CABLING SYSTEM
SFD	SMOKE FIRE DAMPER
SECONDARY	600 VOLTS AND LESS
SMACNA	SHEET METAL & AIR COND. CONTRACTORS' NAT'L ASSOC.
SQ.	SQUARE
SSBJ	SUPPLY SIDE BONDING JUMPER
SBJ	SYSTEM BONDING JUMPER
TC	TIMECLOCK
TEL/DATA	TELEPHONE AND DATA
TV	TELEVISION
T.V.S.S.	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
U.G.P.S.	UNDERGROUND PULL SECTION
U.O.N.	UNLESS OTHERWISE NOTED
U.P.S.	UNINTERRUPTIBLE POWER SYSTEM
VAV	VARIABLE AIR VOLUME
V	VOLTS
VA	VOLT AMPERES
VD	VOLTAGE DROP
WP	WEATHERPROOF
W	WIRE
XFMR	TRANSFORMER

FLOOR BOX / SPECIALTY WALL BOX / PEDESTAL BOX SYMBOLS

SINGLE SERVICE IN FLOOR BOX. PROVIDE DEVICES PER PLAN. SEE FLOOR BOX DETAILS AND SPECIFICATIONS FOR MORE INFORMATION.

TWO SERVICE IN FLOOR BOX. PROVIDE DEVICES PER PLAN. SEE FLOOR BOX DETAILS AND SPECIFICATIONS FOR MORE INFORMATION.

THREE SERVICE IN FLOOR BOX. PROVIDE DEVICES PER PLAN. SEE FLOOR BOX DETAILS AND SPECIFICATIONS FOR MORE INFORMATION.

FOUR SERVICE IN FLOOR BOX. PROVIDE DEVICES PER PLAN. SEE FLOOR BOX DETAILS AND SPECIFICATIONS FOR MORE INFORMATION.

SIX SERVICE IN FLOOR BOX. PROVIDE DEVICES PER PLAN. SEE FLOOR BOX DETAILS AND SPECIFICATIONS FOR MORE INFORMATION.

AV — 7-GANG AV FLOOR BOX. PROVIDE DEVICES PER PLAN. SEE FLOOR BOX DETAILS AND SPECIFICATIONS FOR MORE INFORMATION.

AV — RECESSED, ADJUSTABLE DEPTH, FLAT PANEL TV/DISPLAY WALL BOX WITH FLUSH GROMMETED COVER PANEL (CHIEF #PAC525F) AND MINIMUM OF (1) 1-1/4"C.O. FROM TOP-MOUNTED L.V. CONDUIT ENTRY BOX TO ACCESSIBLE CEILING. SEE PLANS FOR ANY ADDITIONAL CONDUIT REQUIREMENTS. PROVIDE ADDITIONAL L.V. AND LINE VOLTAGE CONDUIT ENTRY BOXES AS REQUIRED TO ACCOMPLISH WALL BOX CONFIGURATION DEPICTED ON PLANS. FLUSH GROMMETED COVER SHALL BE WHITE, BLACK OR CUSTOM COLOR PER ARCHITECT. WHEN FIELD CONDITIONS PROHIBIT INSTALLATION OF THIS DEVICE (SUCH AS WALL STUD/CAVITY DEPTH OF LESS THAN 2.5" ETC), CONFIRM VIA WRITTEN RFI THE INSTALLATION OF A TRADITIONAL POWER AND DATA RECEPTACLE INSTALLATION ALONG SIDE CCTV/AV JUNCTION BOX CONSISTING OF 2-GANG DEEP JUNCTION BOX/2-GANG RING WITH 1-1/4"C.O. TO ACCESSIBLE CEILING IN ADDITION TO ANY OTHER CONDUIT REQUIREMENTS DEPICTED ON PLANS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR MOUNTING HEIGHT.

SINGLE OR DUAL SERVICE RECESSED EXTERIOR WALL BOX - TYPE "WP-A". PROVIDE DEVICES PER PLAN. EACH LV OR UNUSED COMPARTMENT SHALL BE EQUIPPED WITH A 1"CO TO THE NEAREST ACCESSIBLE CEILING SPACE U.O.N. SEE EXTERIOR DETAILS AND SPECIFICATIONS FOR MORE INFORMATION.

SINGLE OR DUAL SERVICE EXTERIOR PEDESTAL - TYPE "WP-C". PROVIDE DEVICES PER PLAN. SEE EXTERIOR DETAILS AND SPECIFICATIONS FOR MORE INFORMATION. ARROW DENOTES DEVICE DOOR LOCATION.

WALL MOUNTED DEVICE MOUNTING HEIGHT NOTE:

ALL WALL-MOUNTED EQUIPMENT MOUNTING HEIGHTS SHALL BE VERIFIED PRIOR TO ROUGH-IN PER REQUIREMENTS OF THE DEVICE ALIGNMENT AND MOUNTING HEIGHT DETAILS AND SPECIFICATIONS.

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.
ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING
949-261-1001 Office
949-260-1190 Fax
LPADesignStudios.com
5301 California Avenue,
Suite 100
Irvine, California 92617

AMG & ASSOCIATES
661-251-7401 Office
AMGAssociates.com
26535 Summit Circle
Santa Clarita, CA 91350

This document and all other project documents, ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are copyright protected, are the property of LPA, Inc. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as set forth in the contractual agreement between LPA and its Client. The unauthorized disclosure and/or use of the project documents (including the creation of derivative works), may give rise to liability for copyright infringement, unlawful disclosure, use or misappropriation of property rights held by LPA. The unauthorized use of the project documents will give rise to the recovery of monetary losses and damages including attorney fees and costs for which the unauthorized user will be held liable.
Project documents describe the design intent of the work and are not a representation of as-built or existing conditions. LPA is not responsible for any discrepancies between the project documents and the existing conditions.

© LPA, Inc.

tk|sc COLLABORATIVE
15231 Laguna Canyon Road, Suite 100
Irvine, California 92618
949.751.5800 www.tk1sc.com

Project Leader - Rick Brysacz
Technology Lead - Rick Brysacz
tk1sc Job #: B2304861.000

MEMORIAL PARK
10597 TOWN CENTER DRIVE
RANCHO CUCAMONGA, CA 91730
Developed for
CITY OF RANCHO CUCAMONGA

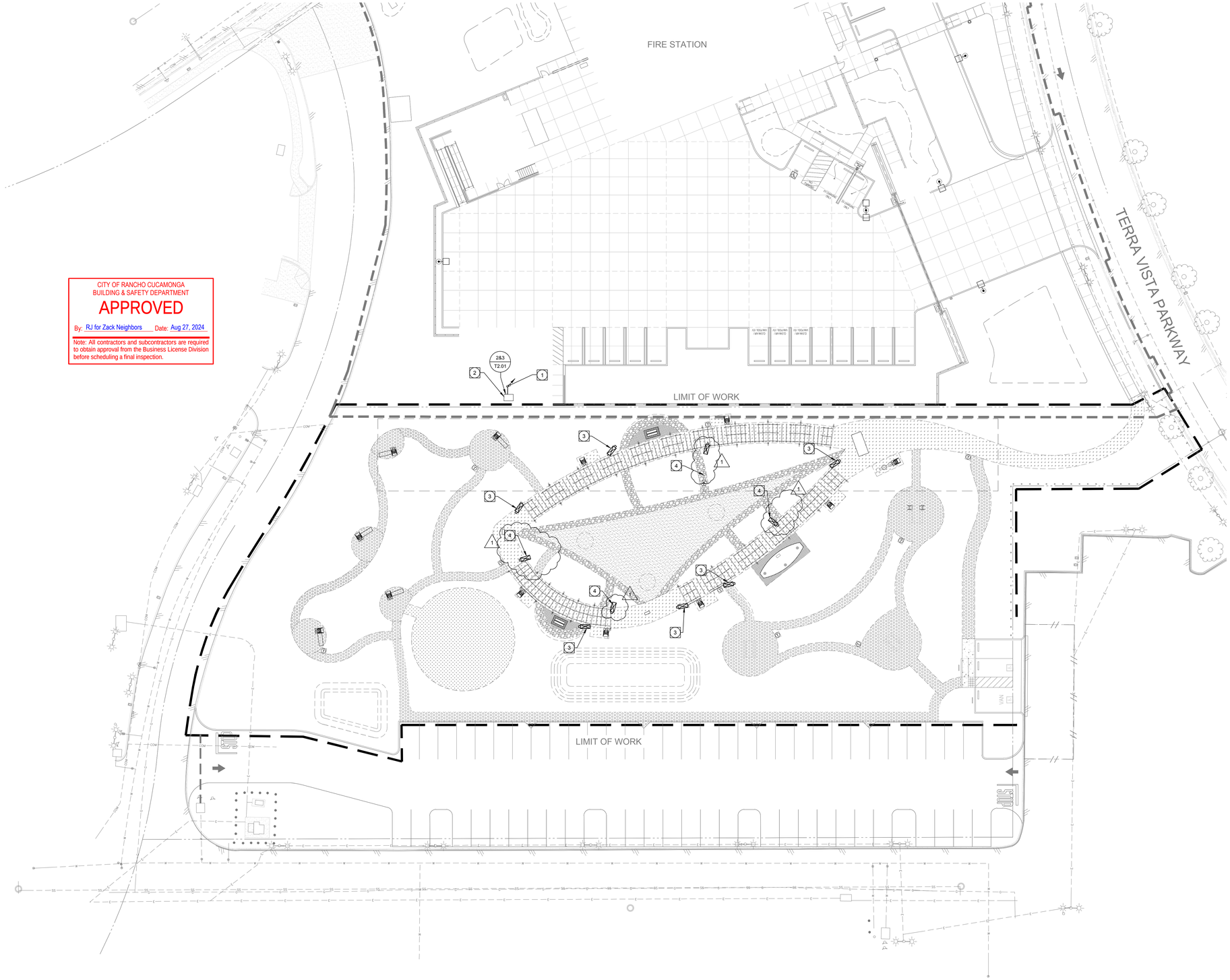
Revision	Date

Submittal	Date
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/12/2023
50% CD	10/06/2023
100% CD	11/03/2023

Job Number	30548.02
Date Published	03/31/2023
Checked By	RB
Scale	

SYMBOLS LIST

T0.01



CITY OF RANCHO CUCAMONGA
BUILDING & SAFETY DEPARTMENT

APPROVED

By: RJ for Zack Neighbors Date: Aug 27, 2024

Note: All contractors and subcontractors are required to obtain approval from the Business License Division before scheduling a final inspection.

1. (1) 2" CONDUIT TO CCTV HEADEND IN EXISTING RCMU.
2. WALL MOUNTED CABINET IN FIRE STATION APPARATUS BAY. INSTALL 6-STRAND SINGLE-MODE FIBER OPTIC OSP RATED CABLE TO EXISTING MDF IN RCMU.
3. IP 4K 110 DEGREE ANGLE-OF-VIEW CCTV CAMERA MOUNTED TO LOWER SHADE STRUCTURE. RUN CATEGORY 6 OSP RATED CABLE TO CCTV PEDESTAL IN FIRE STATION APPARATUS BAY.
4. IP 4K 110 DEGREE ANGLE-OF-VIEW CCTV CAMERA MOUNTED TO UPPER SHADE CANOPY STRUCTURE. RUN CATEGORY 6 OSP RATED CABLE TO CCTV PEDESTAL IN FIRE STATION APPARATUS BAY.

0 10 20 40

SITE PLAN 1" = 20' 01

N

AMG LPA

DESIGN-BUILD TEAM

LPA, INC.

ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING

949-261-1001 Office

949-260-1190 Fax

LPADesignStudios.com

5301 California Avenue,
Suite 100
Irvine, California 92617

AMG & ASSOCIATES

661-251-7401 Office

AMGAssociates.com

26535 Summit Circle
Santa Clarita, CA 91350

This document and all other project documents, ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are copyright protected, are the property of LPA, Inc. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as set forth in the contractual agreement between LPA and its Client. The unauthorized disclosure and/or use of the project documents (including the creation of derivative works), may give rise to liability for copyright infringement, unlawful disclosure, use or misappropriation of property rights held by LPA. The unauthorized use of the project documents will give rise to the recovery of monetary losses and damages including attorney fees and costs for which the unauthorized user will be held liable.
Project documents describe the design intent of the work and are not a representation of as-built or existing conditions. LPA is not responsible for any discrepancies between the project documents and the existing conditions.

© LPA, Inc.

tk1sc COLLABORATIVE

15231 Laguna Canyon Road, Suite 100
Irvine, California 92618
949.751.5800 www.tk1sc.com

Project Leader - Rick Brysacz
Technology Lead - Rick Brysacz
tk1sc Job #: B2304861.000

MEMORIAL PARK

10597 TOWN CENTER DRIVE
RANCHO CUCAMONGA, CA 91730

Developed for
CITY OF RANCHO CUCAMONGA

Revision	Date
1 VE CHANGES	07/31/2024

Submittal	Date
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/12/2023
50% CD	10/06/2023
100% CD	11/03/2023
PERMIT REVISION 01	07/31/2024

Job Number	30548.02
Date Published	03/31/2023
Checked By	RB
Scale	

SECURITY
SITE PLAN

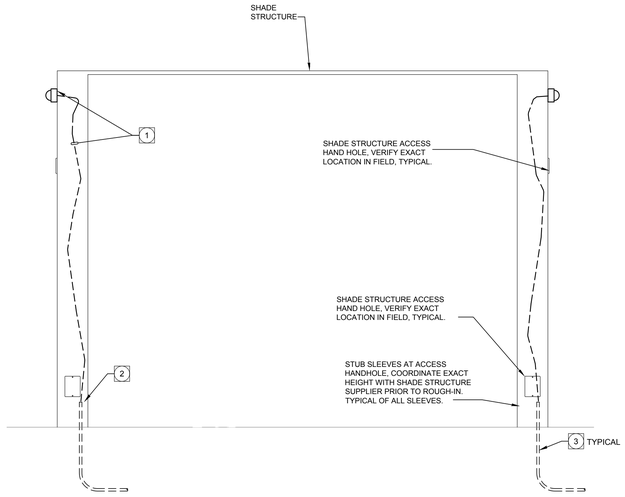
T1.01

CITY OF RANCHO CUCAMONGA
BUILDING & SAFETY DEPARTMENT

APPROVED

By: RJ for Zack Neighbors Date: Jan 24, 2024

Note: All contractors and subcontractors are required to obtain approval from the Business License Division before scheduling a final inspection.

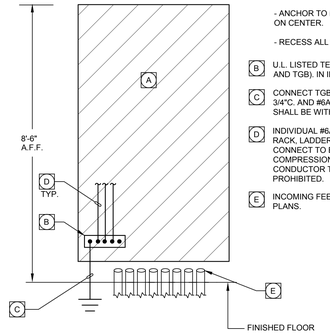


DETAIL PLAN NOTES:

1. SECURITY CAMERA AND LOW-VOLTAGE CABLING, REFERENCE SITE PLAN FOR CAMERA LOCATIONS.
2. CONDUIT FOR SECURITY CAMERA. STUB UP INTO SHADE STRUCTURE AS REQUIRED. REFER TO AUDIO/VISUAL PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. PROVIDE 1"PVC SLEEVES WITH SWEEPS ONLY, ELBOWS AND 90° BENDS SHALL NOT BE ALLOWED. ROUTE SLEEVES UP INTO SHADE STRUCTURE COLUMNS TO ALLOW PULLING OF LOW-VOLTAGE CABLING FOR CAMERAS. ROUTE LIQUID-TIGHT FLEX CONDUIT AND/OR LIQUID-TIGHT MC CABLE FROM IN-GRADE PULL BOX INTO SHADE STRUCTURE VIA 1" PVC SLEEVE(S).

ENLARGED SHADE STRUCTURE CIRCUIT ROUTING DETAIL 1

SCALE: N.T.S.



BACKBOARD AND GROUNDING DETAIL NOTES:

A. WHITE ENAMEL PAINTED A/C GRADE FIRE RATED PLYWOOD TELECOM BACKBOARD, (8' HIGH x 3/4" THICK x WIDTH PER PLANS) BY E.C., LEAVE ONE FIRE MARSHAL STAMP UNPAINTED ON EACH SHEET. MOUNT 6" ABOVE FINISHED FLOOR.

- ANCHOR TO METAL STUD WALL WITH #12 SMS SCREWS AT 16" ON CENTER.

- RECESS ALL SCREWS/BOLTS.

B. U.L. LISTED TELECOMMUNICATIONS GROUND BUS BAR (TMGB AND TGB). IN IDF AND MDF ROOMS PROVIDE TGB.

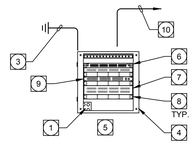
C. CONNECT TGB'S TO ELECTRICAL PANEL GROUND BUS WITH 3/4"C. AND #6AWG GROUND CONDUCTOR. ALL CONNECTIONS SHALL BE WITH 2-HOLE COMPRESSION LUGS.

D. INDIVIDUAL #6AWG GROUND CONDUCTORS TO EACH CABINET, RACK, LADDER TRAY, CONDUIT, ETC. BY SCS CONTRACTOR. CONNECT TO EQUIPMENT AND TO GROUND BUS BAR VIA 2-HOLE COMPRESSION LUGS ONLY. DAISY-CHAINING OF GROUND CONDUCTOR TO MORE THAN ONE PIECE OF EQUIPMENT IS PROHIBITED.

E. INCOMING FEED CONDUITS AND SITE. QUANTITY AND SIZE PER PLANS.

BACKBOARD AND GROUND BUS BAR 2

SCALE: N.T.S.



NOTES:

1. E.C. TO MOUNT 20 AMP DEDICATED CIRCUIT QUAD OUTLET ON INSIDE BACK OF CABINET. COORDINATE LOCATION WITH E.C.
2. CONDUIT TO BUILDING MDF BY E.C. INSTALL 6-STRAND FIBER TO MDF PER SPECIFICATION. PROVIDE NEW PATCH PANEL AS REQUIRED .
3. BOND RACK FRAME TO TELECOMMUNICATIONS BONDING BUSBAR WITH #6 GREEN INSULATED COPPER CONDUCTOR AND 2-HOLE COMPRESSION LUGS.
4. INSTALL 24" X 24" WALL MOUNTED CABINET PER SPECIFICATION WITH DOOR LOCKS, FAN AND FILTER KIT, AND VENTED DOOR. MOUNT CABINET TO THE E.C.-INSTALLED PLYWOOD, ATTACH TO WALL STUDS PER DETAIL 11 ON THIS SHEET.
5. PATCH AND CROSS-CONNECT ALL EQUIPMENT AS REQUIRED.
6. INSTALL FIBER OPTIC ENCLOSURE PER SPECIFICATION. TERMINATE FIBER FROM MDF AS SPECIFIED.
7. INSTALL CATEGORY-6 PATCH PANEL AS REQUIRED PER SPECIFICATION. PROVIDE QUANTITY OF PATCH PANELS AND JACKS NECESSARY TO TERMINATE ALL DATA CABLES.
8. 1U HORIZONTAL WIRE MANAGEMENT. INSTALL (1) WIRE MANAGER ABOVE AND BELOW EACH PATCH PANEL AND (1) BELOW EACH OWNER SUPPLIED DATA SWITCH.
9. CITY PROVIDED CONTRACTOR INSTALLED DATA NETWORK EQUIPMENT.
10. HORIZONTAL CABLING TO LOCATIONS AND QUANTITIES AS INDICATED ON SITE PLAN, ROUTE, BUNDLE AND SUPPORT CABLES AT 4 FT. INTERVALS.

24" HIGH WALL MOUNTED IDF CABINET 3

SCALE: N.T.S.

AMG LPA
DESIGN-BUILD TEAM

LPA, INC.

ARCHITECTURE ENGINEERING INTERIORS
LANDSCAPE ARCHITECTURE PLANNING

949-261-1001 Office

949-260-1190 Fax

LPADesignStudios.com

5301 California Avenue,
Suite 100
Irvine, California 92617

AMG & ASSOCIATES

661-251-7401 Office

AMGAssociates.com

26535 Summit Circle
Santa Clarita, CA 91350

This document and all other project documents, ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are copyright protected, are the property of LPA, Inc. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as set forth in the contractual agreement between LPA and its Client. The unauthorized disclosure and/or use of the project documents (including the creation of derivative works), may give rise to liability for copyright infringement, unlawful disclosure, use or misappropriation of property rights held by LPA. The unauthorized use of the project documents will give rise to the recovery of monetary losses and damages including attorney fees and costs for which the unauthorized user will be held liable.
Project documents describe the design intent of the work and are not a representation of as-built or existing conditions. LPA is not responsible for any discrepancies between the project documents and the existing conditions.

© LPA, Inc.

tk|sc
COLLABORATIVE

15231 Laguna Canyon Road, Suite 100
Irvine, California 92618
949.751.5800 www.tk1sc.com

Project Leader - Rick Brysacz
Technology Lead - Rick Brysacz
tk1sc Job #: B2304861.000

MEMORIAL PARK

10597 TOWN CENTER DRIVE
RANCHO CUCAMONGA, CA 91730

Developed for
CITY OF RANCHO CUCAMONGA

Revision	Date

Submittal	Date
100% SCHEMATIC DESIGN	03/31/2023
100% DESIGN DEVELOPMENT	07/12/2023
50% CD	10/06/2023
100% CD	11/03/2023

Job Number	30548.02
Date Published	03/31/2023
Checked By	RB
Scale	

DETAILS

T2.01