

# CITY OF ARVIN

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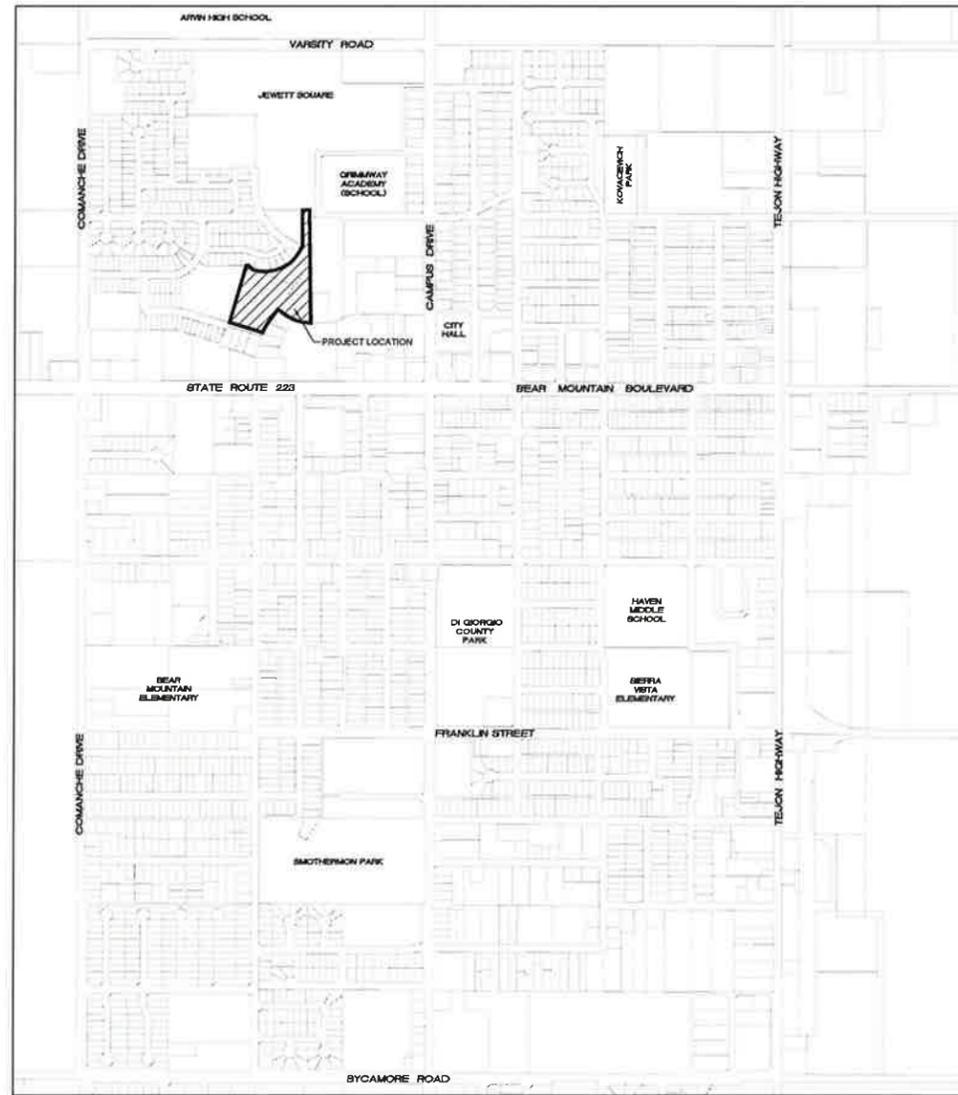
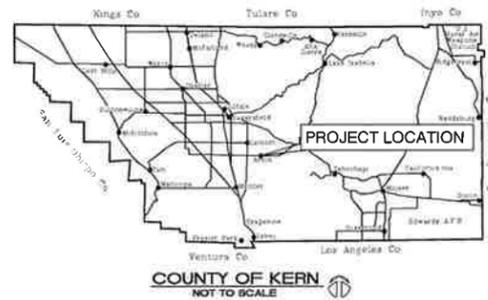
## COUNTY OF KERN STATE OF CALIFORNIA

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### DEPARTMENT OF PUBLIC WORKS

## JEWETT SQUARE: GARDEN IN THE SUN PARK

### SW-15-001 STATE OF CALIFORNIA PARKS AND RECREATION



#### UTILITY CONTACT INFORMATION

ARVIN COMMUNITY SERVICES DISTRICT  
308 CAMPUS DRIVE  
ARVIN, CA 93203  
(805) 854-2177  
ATTN: FERNANDO PANTOLIA

SOUTHERN CALIFORNIA GAS COMPANY  
1510 N. CHESTER AVENUE  
BAKERSFIELD, CA 93301  
(805) 393-1376  
ATTN: JOHN VOIT

BRIGHTHOUSE  
3701 N. SILECT AVENUE  
BAKERSFIELD, CA 93308  
(805) 205-3351  
ATTN: DALE AYERS

AT&T  
4545 CALIFORNIA AVENUE, SUITE 400  
BAKERSFIELD, CA 93309  
(805) 831-3412  
ATTN: PATRICK MADOFF, DESIGN ENGINEER

PACIFIC GAS & ELECTRIC  
1918 1<sup>st</sup> STREET  
BAKERSFIELD, CA 93301  
(805) 321-4588  
ATTN: MATT COLEMAN

#### BASIS COORDINATES

THE COORDINATES ARE NAD83(CORS), EPOCH 2010.00, CALIFORNIA STATE PLANE COORDINATES, ZONE 5.

THE STATE PLANE COORDINATES WERE DERIVED USING OPUS (ONLINE POSITIONING USERS SERVICE). THE FOLLOWING CORS STATIONS WERE USED BY OPUS TO DETERMINE THE COORDINATES:

PID DN7419 P560 STOKESPROPCS2005 CORS ARP  
PID DN7416 P554 GORMANCRK CS2006 CORS ARP  
PID DN7422 P567 RIOBRAVO CS2005 CORS ARP

THE IGS RAPID ORBIT WAS USED TO PROCESS THE DATA.

#### SITE BASIS OF BEARINGS

THE BEARING OF N00°03'54"W BETWEEN THE FOUND POINT NUMBER 105 AND POINT NUMBER 50537 WAS BASED ON THE ABOVE BASIS OF COORDINATES AND WAS USED AS THE BASIS OF BEARINGS FOR THIS SURVEY.

#### VERTICAL DATUM

THE VERTICAL DATUM IS BASED ON NAVD 88 (COMPUTED USING GEOID 12A). THE ELEVATIONS WERE DERIVED FROM GPS OBSERVATIONS.

#### SITE BENCHMARK

TOP OF MONUMENT AT THE INTERSECTION OF VARSITY AVENUE AND CAMPUS DRIVE, POINT NUMBER 50537, BASED ON NAVD 88 VERTICAL DATUM. ELEVATION=452.62

Sheet Number	Sheet Title
C-001	COVER
C-002	NOTES AND LEGEND
C-101	LIMITS OF DISTURBANCE
C-102	EROSION CONTROL AND DEMOLITION PLAN
C-200	STORM WATER POLLUTION PREVENTION PLAN
C-201	SURVEY CONTROL PLAN
S-301	GRADING PLAN
C-302	DRAINAGE PLAN
C-303	GRADING SECTIONS
C-401	UTILITY PLAN
C-402	UTILITY DETAILS
C-403	UTILITY DETAILS
C-501	PAVEMENT PLAN
C-502	PAVING SECTIONS AND DETAILS
C-503	PAVING DETAILS
C-604	WALL PLANS
C-601	SITE FURNITURE PLAN
C-602	SPRAY PARK DETAILS
C-603	SPRAY PARK DETAILS
C-604	SPRAY PARK DETAILS
C-605	SPRAY PARK DETAILS
C-606	SPRAY PARK DETAILS
C-607	SPRAY PARK DETAILS
C-608	SPRAY PARK DETAILS
C-609	TOT LOT DETAILS
C-610	PARK FURNITURE DETAILS
L-1	LANDSCAPE PLANS
L-2	IRRIGATION PLAN - TURF AND SHRUBS
L-3	IRRIGATION PLAN - TREES
E-100	ELECTRICAL SYMBOLS AND NOTES
E-101	ELECTRICAL PLAN
E-102	ELECTRICAL PLAN
E-103	SINGLE LINE DIAGRAM
E-104	BUILDINGS POWER AND LIGHTING PLAN
E-106	PANEL AND CONDUIT SCHEDULE
E-107	SOLAR PANEL RACKING
E-108	ELECTRICAL DETAILS & LIGHT FIXTURE SCHEDULE
E-112	SOLAR PANEL THREE LINE DIAGRAM
E-120	SOLAR SYSTEM LAYOUT
E-121	SOLAR SYSTEM LAYOUT
A-101	MAINTENANCE BUILDING
A-102	MAINTENANCE BUILDING ELEVATIONS
A-103	RESTROOM BUILDING
P-101	RESTROOM BUILDING PLUMBING PLAN
S-101	STRUCTURAL SPEC'S & PROJECT DATA
S-201	MAINTENANCE PLANS
S-202	RESTROOM PLANS
S-501	FOUNDATION DETAILS
S-601	CMU DETAILS & WALL ELEVATIONS
S-602	FRAMING DETAILS

NO.	REVISION	DATE	DESCRIPTION
1	PROJECT UPDATE PER OWNER'S REQUEST	07/20/15	DK



APPROVED BY: *[Signature]*  
DATE: 5/7/15  
TARJET, K. BACENAS  
CITY ENGINEER



PREPARED BY:  
1000 CALIFORNIA AVE  
SUITE 200  
BAKERSFIELD, CA 93307  
(805) 831-3130  
WWW.QUADKNOF.COM  
QUAD KNOF  
A SUBSIDIARY OF STANTEC INC.

PREPARED FOR:  
CITY OF ARVIN  
300 CAMPUS DRIVE  
ARVIN, CA 93203  
(805) 854-3134  
GARDEN IN THE SUN PARK  
COVER

FIRST DATE: JULY 1, 2015  
JOB NO: A150185  
FILE NAME: A150185\_001  
SCALE: AS SHOWN  
SHEET NO: C-001

**ACEC-CA**  
American Council of Engineering Companies of California

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

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

**NOTE:**  
COURTESY COPY FOR REVIEW OF BID DOCUMENTS.  
BID DOCUMENTS AVAILABLE AT CITY HALL.



**GENERAL NOTES**

- ALL GRADING AND EXCAVATION WORK SHALL CONFORM WITH THE LATEST EDITION OF THE CBC, AND THE GEOTECHNICAL REPORT BY BSK AND ASSOCIATES, DATED JUNE 18, 2015.
- ALL EXISTING IMPROVEMENTS OR UTILITIES OUTSIDE THE LIMITS OF WORK, OR DESIGNATED TO BE PRESERVED OR PROTECTED, THAT ARE REMOVED, DAMAGED, OR UNDERCUT, SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE OWNER'S REPRESENTATIVE AT CONTRACTOR'S EXPENSE.
- THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED AT LEAST 2 DAYS IN ADVANCE OF WORK AFFECTING EXISTING IMPROVEMENTS.
- CONTRACTOR ASSUMES SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- UNAUTHORIZED CHANGES AND USES: THE ENGINEER WHO PREPARED THESE PLANS WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.
- CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AS NEEDED AND TAKE ADEQUATE MEASURES TO PROTECT THE FACILITY STAFF. CONSTRUCTION SIGNAGE SHALL BE IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION TRAFFIC MANUAL.
- CONTRACTOR SHALL CONFINE HIS OPERATIONS TO THE LIMITS OF DISTURBANCE EXCEPT AS OTHERWISE INDICATED ON THE PLANS AND/OR APPROVED BY THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL SPECIFICALLY COORDINATE SCHEDULES AND WORK PLANS FOR WORK OUTSIDE THE LIMITS OF CONSTRUCTION, WITH THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL RESTORE ANY EXISTING FACILITIES OR VEGETATION OUTSIDE THE LIMITS OF CONSTRUCTION DAMAGED BY HIS OPERATIONS AT NO EXPENSE TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE DUST CONTROL. PREVENTATIVE MEASURES TO BE TAKEN BY THE CONTRACTOR SHALL COMPLY WITH THE APPROVED DUST CONTROL PLAN.
- THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM APPROPRIATE PUBLIC AGENCIES BEFORE START OF WORK AND SHALL COMPLY WITH ALL REQUIREMENTS CONTAINED THEREIN. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AND THE FOLLOWING AGENCIES AT LEAST 48 HOURS PRIOR TO COMMENCING ANY WORK. CONTRACTOR SHALL COORDINATE HIS WORK WITH AND ABIDE BY THEIR DIRECTION:
  - UNDERGROUND SERVICE ALERT 800/422-4133
  - PACIFIC GAS AND ELECTRIC CO. 800/743-7782
  - TELECOMMUNICATION 661/631-3412
  - SOUTHERN CALIFORNIA GAS COMPANY/661/393-1956
- ALL TOPOGRAPHIC INFORMATION SHOWN ON THESE DRAWINGS WAS COMPILED FROM THE TOPOGRAPHIC SURVEY BY GUAD KNOPF, INC. DATED APRIL, 2015.
- THE TYPES, LOCATIONS, SIZES, AND DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE IMPROVEMENT PLANS WERE OBTAINED FROM AVAILABLE RECORDS. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES ENCOUNTERED BUT NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS OF UTILITIES PRIOR TO THE COMMENCEMENT OF ANY WORK.
- MAINTAIN SITE CONDITIONS TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED ROAD SURFACES. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT, ETC. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO THE PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. CONTRACTOR SHALL INSTALL A CONSTRUCTION ENTRANCE PRIOR TO COMMENCEMENT OF WORK.
- SEISMIC DESIGN PARAMETERS PER 2010 CALIFORNIA BUILDING CODE (CBC). (REFERENCE GEOTECHNICAL REPORT NOTE NO. 1 ABOVE)
- CONTRACTORS SHALL AT ALL TIMES COMPLY WITH THE REQUIREMENTS OF THE BEST MANAGEMENT PRACTICES (BMP'S) PRESCRIBED IN SHEET C. 200.
- ALL WALKWAYS AND RAMPS SHALL COMPLY WITH ADA REQUIREMENTS. MAXIMUM GRADIENT SHALL NOT EXCEED 7.10% FOR RAMPS OR 1.50% FOR CROSS SLOPES OF WALKWAYS AND DESIGNATED PARKING AREAS.
- CONTRACTOR SHALL STRAIGHT-GRADE BETWEEN SPOT ELEVATIONS; RIDGE LINES AND FLOW LINES UNLESS OTHERWISE SHOWN ON PLANS.
- ORIGINAL CONCEPT DESIGNS PROVIDED BY PINNACLE ENGINEERING DATED 1-31-2014.

**ABBREVIATIONS**

AB	ANCHOR BOLT/AGGREGATE BASE	INSTL	INSTALLATION	TRANS	TRANSFORMER
ABT	ABOUT	INSTM	INSTRUMENTATION	TW	TOP OF WALL
AC	ASPHALT CONCRETE	INT	INTERIOR	UON	UNLESS OTHERWISE NOTED
ADPTR	ADAPTER	IPS	IRON PIPE SIZE	VB	VALVE BOX
AGG	AGGREGATE	IW	IRRIGATION WELL	VCP	VITRIFIED CLAY PIPE
AHD	AHEAD	J	JOULE	W	WATT/WEST/WIDTH/WATER
AL	ALUMINUM	JT	JOINT	WL	WATER LINE
ALTN	ALTERNATE	kg	KILOGRAM	WM	WATER METER
APPROX	APPROXIMATE	km	KILOMETRE	WSP	WELDED STEEL PIPE
ARR	ARRANGEMENT	kPa	KILOPASCAL	WT	WEIGHT
ARV	AIR RELEASE VALVE	L	LITER	WTR	WATER
ASSY	ASSEMBLY	LD	LANDSCAPE DRAIN	WV	WATER VALVE
AW	AUXILIARY WATER	LG	LONG	WVF	WELDED WIRE FABRIC
BC	BEGINNING OF CURVE	LLV	LONG LEG VERTICAL	XMTR	TRANSMITTER
BETW	BETWEEN	LDC	LIMITS OF CONSTRUCTION		
BF	BLIND FLANGE	LSH	LEVEL SWITCH HIGH		
BFP	BACKFLOW PREVENTOR	LSL	LEVEL SWITCH LOW		
BFV	BUTTERFLY VALVE	LT	LEFT/LIGHT		
BLDG/BLD	BUILDING	LTS	LIME TREATED SUBGRADE		
BLK	BLOCK	LWL	LOW WATER LEVEL		
BM	BEAM/BENCH MARK	m	METER		
BOL	BOLTED	MCH	MACHINE		
BOT	BOTTOM	MATL	MATERIAL		
BW	BACK OF WALK/BLOCKWALL	MAX	MAXIMUM		
CAP	CAPACITY	MB	MACHINE BOLT/MAIL BOX		
CAV	COMBINATION AIR VALVE	MCC	MOTOR CONTROL CENTER		
CB	CATCH BASIN	MECH	MECHANICAL		
CRIC	CIRCULATOR	MFR	MANUFACTURER		
CSP	CAST IRON SOIL PIPE	MILL	MILLIGRAM		
CJ	CONSTRUCTION JOINT	MO	MEGACRAM		
CL	CLASS	MH	MANHOLE		
Q	CENTER LINE	MI	MALLEABLE IRON		
CLDI	CENTERLINE OF DROP INLET	MIN	MINIMUM		
CL/FNC	CENTERLINE OF FENCE	MPT	MALE IRON PIPE THREAD		
CLR	CLEAR	ML	MATCH LINE		
CM	CENTIMETER	mm	MILLIMETER		
CMP	CORRUGATED METAL PIPE	MPO	MEGAPASCAL		
CMPNT	COMPONENT	N	NEWTON/NORTH		
CND	CONDUIT	NE	NORTHEAST		
CNS	COMPACTED NATIVE SUBGRADE	NIC	NOT IN CONTRACT		
CO	CLEAN OUT	NO	NUMBER		
COL	COLUMN	NOM	NOMINAL		
COMP	COMPLETES/COMPOSITE/COMPACTION	NPS	NOMINAL PIPE SIZE		
CONC/C	CONCRETE	NPT	NATIONAL PIPE THREAD		
CONN	CONNECTION	NTS	NOT TO SCALE		
CONST	CONSTRUCTION	NS	NORTHWEST		
CONT	CONTINUATION/CONTINUOUS	OC	ON CENTER		
CONTR	CONTRACTOR	OD	OUTSIDE DIAMETER		
COR	CORNER	OG	ORIGINAL GROUND		
CORP	CORPORATION	OPNG	OPENING		
CP	CATHODIC PROTECTION	OPP	OPPOSITE		
CPLO	COUPLING	P	PASCAL		
CR	CROWN	PA	PLANTER AREA		
CSP	CORRUGATED STEEL PIPE	PC	POINT OF CURVATURE		
CT	COPPER TUBING/CENTER TOP	PCC	POINT OF COMPOUND CURVE/ PORTLAND CEMENT CONCRETE		
CTG	COATING	PE	PLAIN END/POLYETHYLENE		
CTR	CENTER	PI	POINT OF INTERSECTION		
CYL	CYLINDER	PV	POST INDICATOR VALVE		
DBL	DOUBLE	PL	PLATE/PROPERTY LINE		
DI	DUCTILE IRON/DROP INLET	POC	POINT OF CONNECTION		
DA	DIAMETER	PP	POWER POLE		
DM	DIMENSION	PRC	POINT OF REVERSE CURVATURE		
DIP	DISSIPATION	PRV	PRESSURE REDUCING VALVE		
DISCH	DISCHARGE	PT	POINT/POINT OF TANGENCY		
DN	DOWN	PUE	PUBLIC UTILITY EASEMENT		
DR	DOOR	PVC	POLYVINYL CHLORIDE		
DWG	DRAWING	PI	POINT OF VERTICAL INTERSECTION		
DWL	DOWEL	PVT	PAVEMENT		
E	EAST	PWR	POWER		
EA	EACH	R	RADIUS/RADIAL/RISER		
EC	END OF CURVE	RCP	REINFORCED CONCRETE PIPE		
ECC	ECCENTRIC	RD	ROUND/ROAD		
EF	EACH FACE/EXHAUST FAN	RDC	REDUCE		
EL	ELEVATION	REC	RECOMMEND		
ELB	ELBOW	REIN	REINFORCED		
ELEC	ELECTRIC	REL	RELATIVE		
ENC	ENCASEMENT	REQD	REQUIRED		
ELECPAN	ELECTRIC PANEL	RP	REDUCED PRESSURE BACKFLOW PREVENTER		
EP	EDGE OF PAVEMENT	RIP	RIP RAP		
ER	EDGE OF ROAD	RSP	ROCK SLOPE PROTECTION		
ETW	EDGE OF TRAVEL WAY	RT	RIGHT		
EW	EACH WAY	R/W	RIGHT OF WAY		
EXIST	EXISTING	S	SECOND (TIME)		
EXP	EXPANSION	SCH	SCHEDULE		
EXT	EXTENSION/EXTERIOR	SD	STORM DRAIN		
FC	FACE OF CURB/FOOT-CANDLE	SQJ	STORM DRAINAGE JUNCTION BOX		
		SE	SOUTHEAST		
FD	FLOOR DRAIN	SECT	SECTION		
FDN	FOUNDATION	SHLDR	SHOULDER		
FDR	FEEDER	SHT	SHEET		
FF	FINISH FLOOR/FLAT FACE	SHL	SHOULDER		
FG	FINISH GRADE	SHR	SHRIMP		
FH	FIRE HYDRANT	SL	SLOPE		
FIG	FIGURE	SLDR	SOLDER		
FIN	FINISH/FINAL	SLTD	SLOTTED		
FL	FLOWLINE	SP	SPACE/SPOOL/STEEL PIPE/STAND PIPE		
FLEX	FLEXIBLE	SPC	SPACING		
FLG	FLANGE	SPEC	SPECIFICATION		
FLPIPE	FLOW LINE PIPE	SPT	SUPPORT		
FLR	FLOOR	SQ	SQUARE		
FOC	FACE OF CONCRETE	SS	SANITARY SEWER		
FS	FINISH SURFACE	SSFM	SANITARY SEWER FORCE MAIN		
FTG	FITTING/FOOTING	SS FMCO	SANITARY SEWER FORCE MAIN CLEAN OUT		
FW	FIRE WATER	SST	STAINLESS STEEL		
g	GRAM	STA	STATION		
G	GAS	STD	STANDARD		
GA	GAUGE	STF	STIFFENER		
GALV	GALVANIZED	STL	STEEL		
GB	GRADE BREAK	STR	STRAIGHT		
GM	GAS METER	STRUC	STRUCTURE		
GR	GRADE	SW	SOUTHWEST		
CRTO	GRATING	SVCE	SERVICE		
GRVD	GROOVED	SYM	SYMMETRICAL		
Gv	GAS VALVE/GATE VALVE	TAB	TOP & BOTTOM		
GW	GREASE WASTE	TC	TOP OF CURB OR CONCRETE		
ha	HECTARE	TELPD	TELEPHONE PEDESTAL		
HB	HOSE BIBB	TEMP	TEMPERATURE		
HDPE	HIGH DENSITY POLYETHYLENE	TF	TOP OF FOOTING		
HDR	HEADER	TG	TOP OF GRATE		
HOT	HEIGHT	THD	THREAD		
HM	HORIZONTAL METER	THK	THICK		
HORIZ	HORIZONTAL	THKNS	THICKNESS		
HP	HIGH PRESSURE/HIGH POINT/HINGE POINT	T.O.P.	TOP OF PIPE		
HR	HANDRAIL/HOUR	TOT	TOTAL		
HWL	HIGHWATER LEVEL				
HYDR	HYDRAULIC				

**LEGEND**

**PROPOSED FEATURES**

- CONSTRUCTION LIMITS
- CENTERLINE/BASELINE
- SECTION LINE
- DRAINAGE SHALE FLOWLINE
- FLOW DIRECTION
- DETAIL NUMBER
- DETAIL TITLE
- WATER & GAS COMBINED
- TRENCH DETAIL
- SHEET NUMBER WHERE DETAIL IS SHOWN
- LANDSCAPE DRAIN (SEE LANDSCAPE PLANS FOR DETAIL)
- STORM DRAIN DROP INLET
- STORM DRAIN CATCH BASIN
- STORM DRAIN MANHOLE
- ROOF DRAIN (SEE PLUMBING PLANS FOR DETAIL)
- STORM DRAIN PIPE W/ SIZE
- SANITARY SEWER MANHOLE
- SANITARY SEWER PIPE W/ SIZE
- WATER VALVE
- REDUCER
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION
- WATER PIPE W/ SIZE
- STUB & CAP UTILITY
- SPOT ELEVATION
- GRADE BREAK
- SLOPES
- SLOPE 3 HORIZONTAL TO 1 VERTICAL POINT NUMBER COORDINATE POINT (SEE COORDINATE TABLES FOR NORTHING & EASTING)

**EXISTING FEATURES**

- EXISTING CONTOUR
- SIGN
- RETAINING WALL
- TREE/SHRUB
- STORM DRAIN MANHOLE
- CATCH BASIN/DRAINAGE INLET
- EXISTING STORM DRAIN PIPE W/ SIZE
- EXISTING VALVE
- FIRE HYDRANT
- EXISTING WATER PIPE W/ SIZE
- SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER PIPE W/ SIZE
- GAS VALVE
- EXISTING NATURAL GAS PIPE W/ SIZE
- EXISTING UNDERGROUND TELEPHONE
- POWER POLE
- FENCING
- CONCRETE
- BUILDING AND STRUCTURES
- SITE CONTROL POINT
- BOLLARD
- EXISTING SECTION CORNER, 1/4 CORNER, OR MONUMENT
- STAND PIPE
- IRRIGATION WELL
- MAILBOX
- TELEPHONE PEDESTAL
- GATE
- SECURITY KEYPAD
- RIP RAP
- FINISH FLOOR SHOT
- EXISTING IRRIGATION FACILITY
- ELECTRICAL MANHOLE
- LIGHT POST
- UTILITY POLE (POWER, TEL, CABLE TV)
- ELECTRICAL PANEL
- ELECTRICAL (TYPE SPECIFIED)
- GROUNDING ROD
- STREET LIGHT
- LIGHT POST
- GUY AND ANCHOR
- ELECTRICAL MANHOLE
- EXISTING ELECTRICAL
- EXISTING OVERHEAD ELECTRICAL

REVISIONS	DATE	BY	DESCRIPTION



APPROVED BY: *Michael A. Bodeans*  
 TITLE: MICHAEL A. BODEANS  
 CITY ENGINEER

PREPARED BY: *Quad Knopf*  
 800 CALIFORNIA AVE  
 SUITE 200  
 BAYVIEWVILLE, CA 94026  
 (916) 831-3134  
 WWW.QUADKNOPF.COM

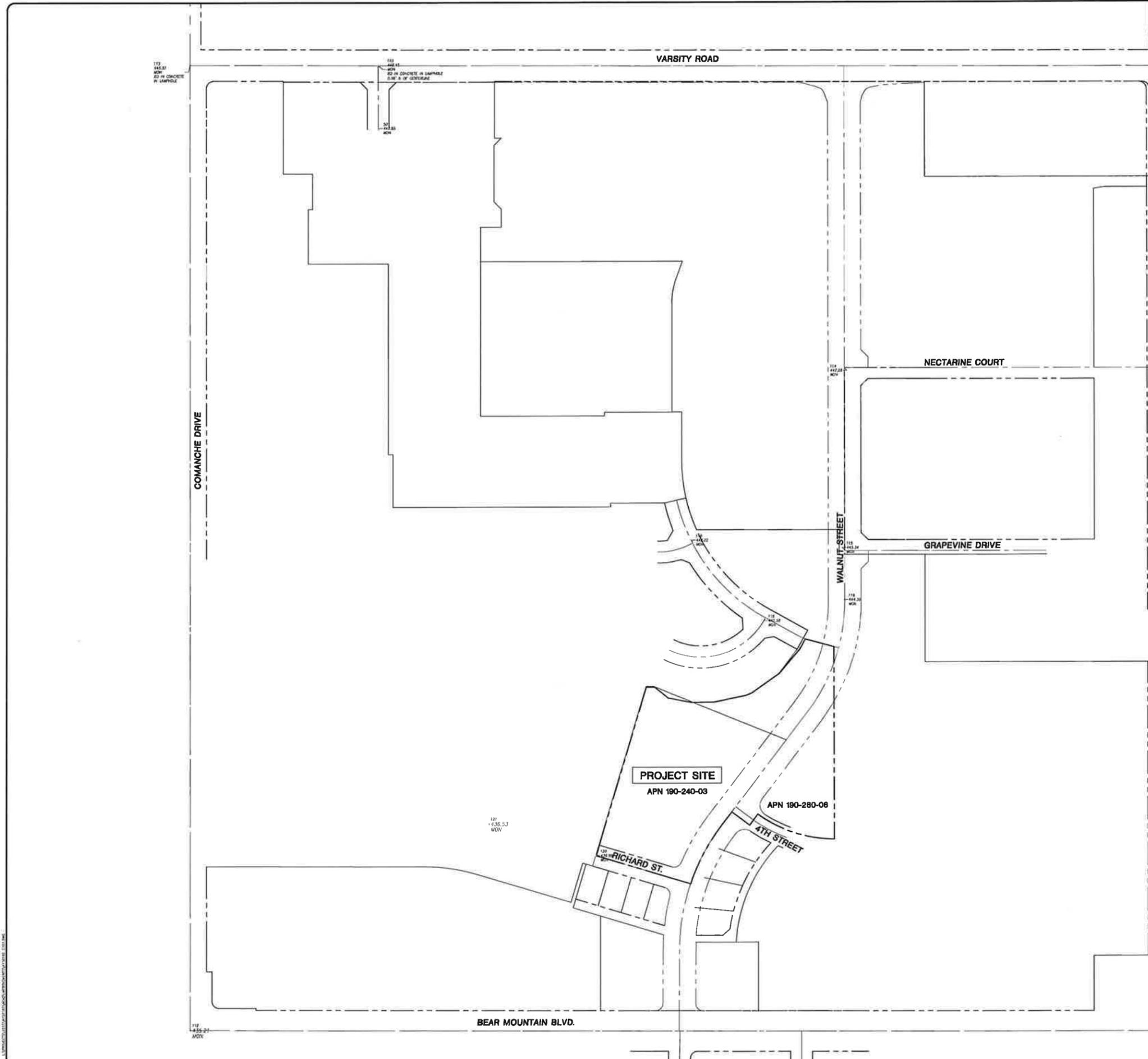
**Quad Knopf**  
 A COMMITMENT TO EXCELLENCE

PREPARED FOR:  
**CITY OF ARVIN**  
 200 CAMDEN DRIVE  
 ARVIN, CA 93203  
 (818) 834-3134

**GARDEN IN THE SUN PARK**  
**NOTES AND LEGEND**

DATE: JULY 1, 2015  
 SHEET NO: A150185  
 DATE: A150185 0000  
 SCALE: AS SHOWN  
 SHEET NO: C 002





31337  
43242  
MON  
E. 2284815.118  
N. 4242778.1457

SCALE: 1" = 100'

110  
431.10  
MON  
E. 2284815.118  
N. 4242778.1457

**REFERENCE MAPS**  
 GOVERNMENT PLAT OF TOWNSHIP 28 SOUTH, RANGE 27 EAST, M.B.B. & M., APPROVED BY THE SURVEYOR GENERAL'S OFFICE SEPTEMBER 4, 1855.  
 MISCELLANEOUS SURVEY'S MAP 16-7 28-26-1-M1 FILED IN THE OFFICE OF THE KERN COUNTY SURVEYOR JULY 1955.  
 RECORD OF SURVEY RECORDED JANUARY 2, 1973 IN BOOK 10 OF RECORD OF SURVEYS AT PAGES 186-188 IN THE OFFICE OF THE KERN COUNTY RECORDER.

**LEGEND**

- ▲ MONUMENT FOUND AS DESCRIBED
- CONTROL MONUMENT SET
- TEMPORARY BENCHMARK
- SECTION LINE
- - - SECTION BOUNDARY LINES
- SITE BOUNDARY

**POINT LIST**  
 NOTE: ALL COORDINATES AND ELEVATIONS LISTED ARE IN SURVEY FEET

Point #	Northing	Easting	Elevation	Description
111	2263436.73	6312772.63	442.56	MON
118	2284572.07	6311866.69	441.58	MON
116	2284817.25	6311887.33	444.36	MON
115	2284758.17	6311867.19	445.34	MON
114	2285258.87	6311896.80	447.28	MON
120	2283820.37	6311203.12	436.88	MON
119	2284777.49	6311498.70	442.22	MON
110	2288091.17	6310802.12	448.45	MON
113	2288092.41	6310800.25	448.33	MON

**BASIS OF COORDINATES**  
 THE COORDINATES ARE NAD83(CORS), EPOCH 2010.00, CALIFORNIA STATE PLANE COORDINATES, ZONE 5.  
 THE STATE PLANE COORDINATES WERE DERIVED USING OPUS (ONLINE POSITIONING USERS SERVICE) THE FOLLOWING CORS STATIONS WERE USED BY OPUS TO DETERMINE THE COORDINATES:  
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 PID 0N7416 P554 GORMANCRK CS2006 CORS ARP  
 PID 0N7422 P567 RIOGRANVO CS2005 CORS ARP  
 THE IOS RAPID ORBIT WAS USED TO PROCESS THE DATA.

**SITE BASIS OF BEARINGS**  
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THE BEARING OF S73°23'07"E BETWEEN CONTROL POINT 201 AND 202 SHOWN HEREON, WAS DERIVED FROM THE ABOVE NOTED BASIS OF BEARINGS.

**VERTICAL DATUM**  
 THE VERTICAL DATUM IS BASED ON NAVD 88 (COMPUTED USING GEOID 12A). THE ELEVATIONS WERE DERIVED FROM GPS OBSERVATIONS.

**SITE BENCHMARK**  
 TOP OF MONUMENT AT THE INTERSECTION OF VARSITY AVENUE AND CAMPUS DRIVE, POINT NUMBER 50337, BASED ON NAVD 88 VERTICAL DATUM.  
 ELEVATION=452.62'

APPROVED BY:  ROBERT K. BORENS  
 CIVIL ENGINEER

DATE: 8/7/20

PROJECT: PROJECT SUBJECT PER OWNER'S REQUEST

DATE: 8/7/2020

SCALE: AS SHOWN

SHEET NO: C 101

PROJECT NO: A150185

FILE NAME: A150185 E101

DATE: JULY 1, 2019

PROJECT: GARDEN IN THE SUN PARK LIMITS OF DISTURBANCE

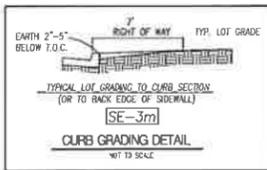
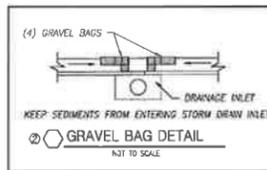
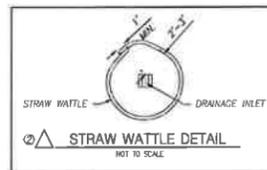
CITY OF ARVIN  
 PUBLIC WORKS DEPARTMENT  
 ARVIN, CA 93203  
 (805) 834-3134

QUAD KNOPT  
 A SURVEYING AND MAPPING COMPANY  
 1000 CALIFORNIA AVE  
 SUITE 220  
 WATFORDS, CA 92306  
 (951) 815-3900  
 188 W. COMANCHE DRIVE  
 ARVIN, CA 93203  
 (805) 834-3134

811  
 Know what's below.  
 Call before you dig.



SWPPP BMP LEGEND	
EC-2	PRESERVATION OF EXISTING VEGETATION
SE-1	SILT FENCE
SE-3m	CURB GRADING DETAIL PER THIS SHEET
SE-5	FIBER ROLLS
SE-7	STREET SWEEPING AND VACUUMING
SE-10	PROTECTED DRAINAGE INLET FROM SEDIMENT INFILTRATION
TC-1	STABILIZED CONSTRUCTION ENTRANCE
WE-1	WIND EROSION CONTROL
NS-1	WATER CONSERVATION PRACTICES
NS-8	VEHICLE AND EQUIPMENT CLEANING
NS-9	VEHICLE AND EQUIPMENT FUELING
NS-10	VEHICLE AND EQUIPMENT MAINTENANCE
NS-12	CONCRETE CURING
NS-13	CONCRETE FINISHING
WM-1	MATERIAL DELIVERY AND STORAGE
WM-2	MATERIAL USE
WM-3	STOCK PILE MANAGEMENT
WM-4	SPILL PREVENTION AND CONTROL
WM-5	SOLID WASTE MANAGEMENT
WM-6	HAZARDOUS WASTE MANAGEMENT
WM-7	CONTAMINATED SOIL MANAGEMENT
WM-8	CONCRETE WASTE MANAGEMENT
WM-9	SANITARY/SEPTIC WASTE MANAGEMENT
WM-10	LIQUID WASTE MANAGEMENT
←	EXISTING DRAINAGE
→	PROPOSED DRAINAGE
- - -	DISTURBANCE LIMITS



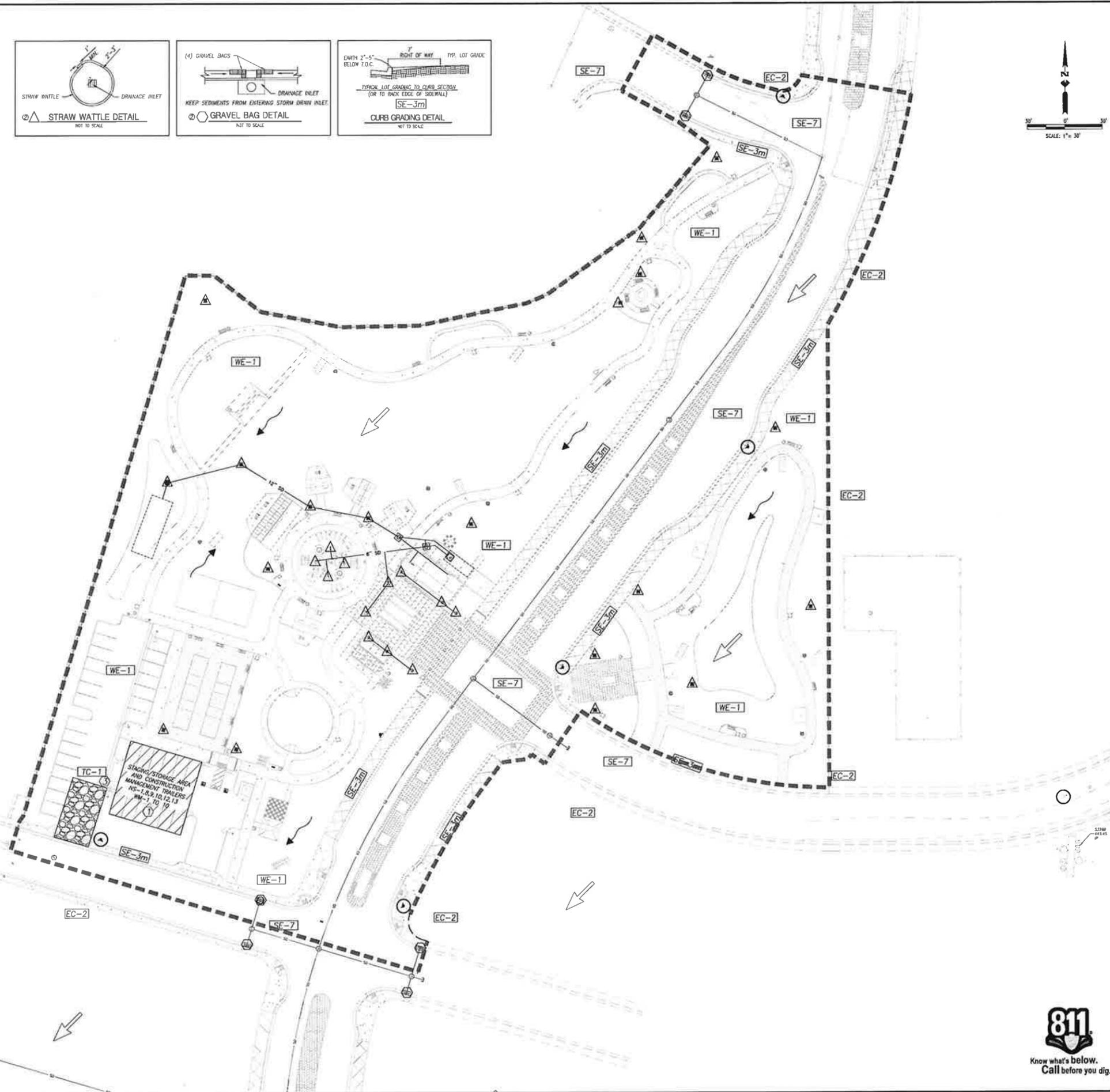
**SITE SPECIFIC NOTES:**

THIS SITE HAS BEEN CALCULATED AS A RISK LEVEL 1 DISCHARGER AND SHALL COMPLY WITH ALL OF THE REQUIREMENTS OF THE PROJECT SWPPP AND AS SPECIFIED IN ATTACHMENT C OF THE GENERAL PERMIT.

- ① CONSTRUCT WORK EQUIPMENT STORAGE AREAS AS NEED FOR CONSTRUCTION PER THE CALIFORNIA BMP HANDBOOK.
- ② PROVIDE STANDARD STORM DRAIN INLET PROTECTION PER BMP STANDARD SE-10 OF THE CALIFORNIA BMP HANDBOOK. PROVIDE INLET PROTECTION FOR EXISTING INLETS AT START OF CONSTRUCTION. AS PROPOSED INLETS ARE CONSTRUCTED INLET PROTECTION SHALL BE INSTALLED.
- ③ THE CONSTRUCTION ENTRANCE IS DESIGNED TO REDUCE SOIL TRACK OFF INTO THE STREET. ONCE THE INTERIOR ROADS AND PARK LOTS ARE COMPLETE, IT MAY BE POSSIBLE TO REPLACE THE CONSTRUCTION ENTRANCES WITH REGULAR STREET SWEEPING. THIS IS UP TO THE CONTRACTOR'S DISCRETION.
- ④ SAMPLING LOCATIONS SHALL BE AT MINIMUM LOCATED UPSTREAM (CONTROL SAMPLE) AND DOWNSTREAM OF CONSTRUCTION ACTIVITIES. SAMPLING IS ON AN AS NEEDED BASIS PER THE SWPPP AND CONSTRUCTION GENERAL PERMIT.
- ⑤ NEAREST WATER SOURCE: FIRE HYDRANT LOCATED WHERE SHOWN.
- ⑥ PERIMETER CONTROL BMP: EC-2, SE-1, SE-3m, SE-5 OR OTHER APPROPRIATE MEASURES.

**GENERAL EROSION CONTROL NOTES:**

1. LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY GOVERNING AUTHORITIES.
2. THE GENERAL CONTRACTOR SHALL STRICTLY ADHERE TO THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) DURING CONSTRUCTION OPERATIONS. IF FIELD CONDITIONS WARRANT IT, THE SWPPP MAY BE MODIFIED AS LONG AS THE CONSTRUCTION GENERAL PERMIT CONDITIONS ARE MET. ANY ALTERATIONS TO THE SWPPP MUST BE NOTED IN THE SWPPP BINDER KEPT ON SITE.
3. NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED.
4. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE GENERAL CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE AND BE IN COMPLIANCE WITH THE CONSTRUCTION GENERAL PERMIT.
5. GENERAL CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
6. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
7. DRAIN INLET PROTECTION SHALL BE PROVIDED THROUGHOUT THE DURATION OF THE PROJECT. EXISTING DRAIN INLETS SHALL BE PROTECTED UNTIL FINAL REMOVAL AND THE CONNECTING PIPE SHALL BE PROPERLY CAPPED TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM.
8. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION ON ANY EXPOSED AREAS WHEN THE PROJECT IS COMPLETE.



NO.	REVISION	DATE	DESCRIPTION



APPROVED BY:  
 DATE: 6/7/20  
 DANIEL K. BACENAS  
 CITY ENGINEER



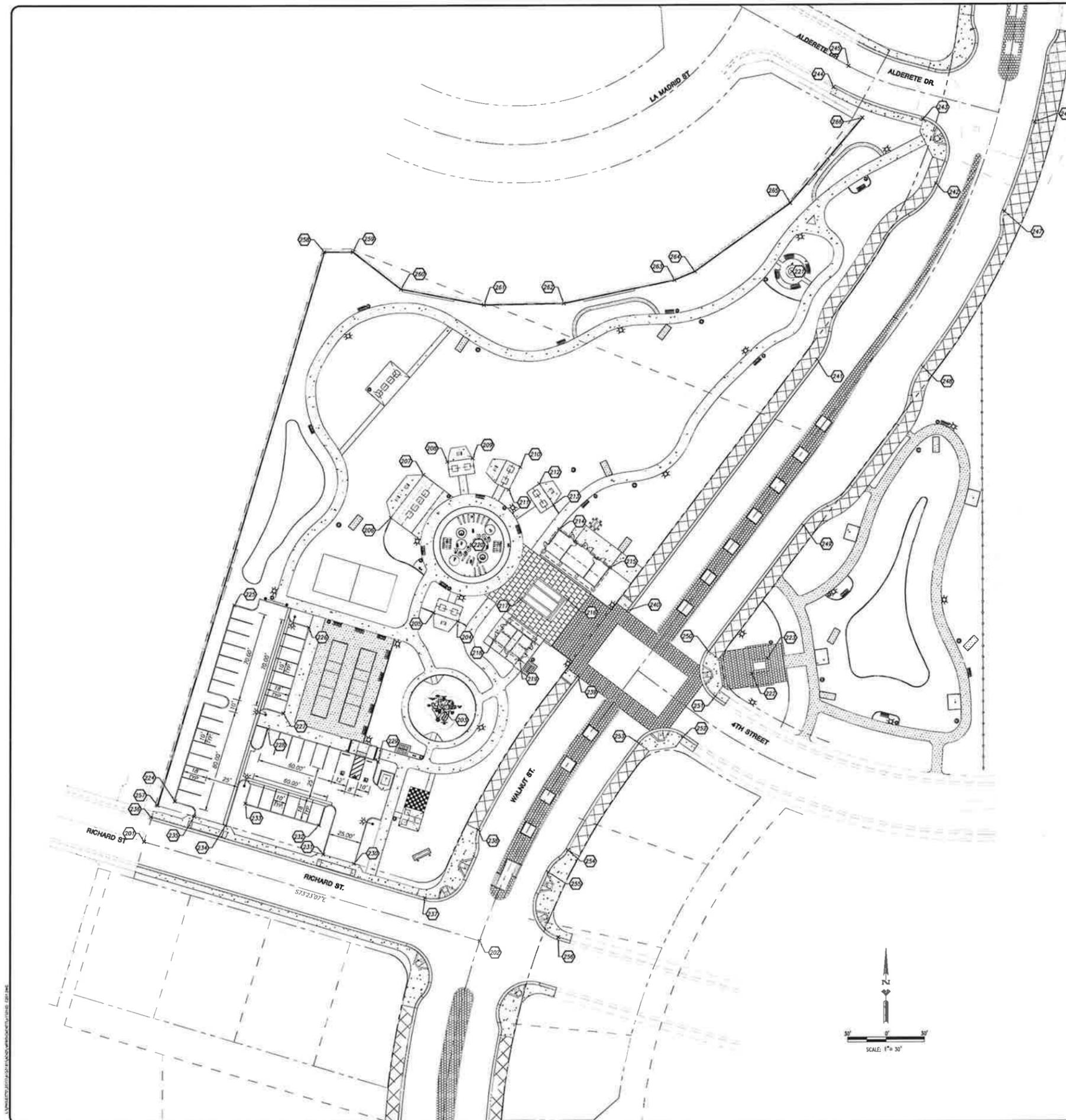
PREPARED BY:  
**Quad Knopf**  
 5000 CALIFORNIA AVE  
 SUITE 220  
 ARVIN, CA 93203  
 TEL: (805) 816-2870  
 FAX: (805) 816-2870  
 WWW.QUADKNOPF.COM

WORKSHEET PLAN FOR:  
**CITY OF ARVIN**  
 200 CAMPUS DRIVE  
 ARVIN, CA 93203  
 (805) 808-3124

**GARDEN IN THE SUN PARK**  
**STORM WATER POLLUTION PREVENTION PLAN**

PLIST DATE:	06/11/2015
205 NO:	A150165
PLIST NAME:	A150165_C000
SCALE:	AS SHOWN
SHEET NO.:	C 200





COORDINATE TABLE			
NUMBER	NORTHING	EASTING	DESCRIPTION
201	2263920.21	6311202.96	RICHARD ST CENTERLINE
202	2263842.32	6311463.99	INTERSECTION OF WALNUT ST AND RICHARD ST
203	2264024.28	6311434.50	TOT LOT CENTER POINT
204	2264092.27	6311446.72	CORNER OF PICNIC STRUCTURE
205	2264099.05	6311427.91	CORNER OF PICNIC STRUCTURE
206	2264173.50	6311394.62	CORNER OF PICNIC PAVILION
207	2264206.98	6311419.98	CORNER OF PICNIC PAVILION
208	2264217.17	6311438.58	CORNER OF PICNIC STRUCTURE
209	2264219.90	6311458.39	CORNER OF PICNIC STRUCTURE
210	2264212.91	6311495.57	CORNER OF PICNIC STRUCTURE
211	2264195.11	6311486.44	CORNER OF PICNIC STRUCTURE
212	2264199.79	6311510.37	CORNER OF PICNIC STRUCTURE
213	2264183.22	6311521.57	CORNER OF PICNIC STRUCTURE
214	2264164.16	6311526.18	CORNER OF MAINTENANCE BUILDING
215	2264133.97	6311566.03	CORNER OF MAINTENANCE BUILDING
216	2264108.74	6311533.12	CORNER OF PLAZA FOUNTAIN
217	2264109.30	6311495.91	CORNER OF PLAZA FOUNTAIN
218	2264077.55	6311474.90	CORNER OF RESTROOM BUILDING
219	2264062.26	6311495.09	CORNER OF RESTROOM BUILDING
220	2264152.10	6311457.85	SPLASH PAD CENTER POINT
221	2264365.60	6311708.66	NORTH GARDEN CENTER POINT
222	2264050.86	6311676.52	CORNER OF EAST WATER FEATURE
223	2264062.70	6311688.99	CORNER OF EAST WATER FEATURE
224	2263951.83	6311226.34	PARKING LOT
225	2264105.15	6311272.09	PARKING LOT
226	2264087.70	6311330.54	PARKING LOT
227	2264020.63	6311310.53	PARKING LOT
228	2264008.38	6311298.52	PARKING LOT
229	2263982.64	6311384.77	PARKING LOT
230	2263902.67	6311366.12	PARKING LOT
231	2263909.82	6311342.16	PARKING LOT
232	2263932.77	6311338.57	PARKING LOT
233	2263949.93	6311281.08	PARKING LOT
234	2263932.70	6311265.50	PARKING LOT
235	2263939.85	6311241.55	PARKING LOT
236	2263939.47	6311208.03	RICHARD ST NORTH FLOWLINE
237	2263875.78	6311421.26	RICHARD ST NORTH FLOWLINE
238	2263929.02	6311482.70	WALNUT ST EAST FLOWLINE
239	2264049.18	6311540.70	WALNUT ST EAST FLOWLINE
240	2264099.97	6311579.17	WALNUT ST EAST FLOWLINE
241	2264298.42	6311727.98	WALNUT ST EAST FLOWLINE
242	2264434.39	6311821.57	WALNUT ST EAST FLOWLINE
243	2264484.45	6311811.32	ALDERETE DR FLOWLINE
244	2264509.78	6311741.08	ALDERETE DR FLOWLINE
245	2264526.18	6311752.98	ALDERETE DR CENTERLINE
246	2264492.07	6311898.88	WALNUT ST WEST FLOWLINE
247	2264412.32	6311875.20	WALNUT ST WEST FLOWLINE
248	2264290.29	6311811.13	WALNUT ST WEST FLOWLINE
249	2264166.39	6311717.28	WALNUT ST WEST FLOWLINE
250	2264068.25	6311642.96	WALNUT ST WEST FLOWLINE
251	2264032.93	6311648.19	FOURTH ST NORTH FLOWLINE
252	2264001.57	6311623.32	FOURTH ST SOUTH FLOWLINE
253	2263996.50	6311988.61	WALNUT ST WEST FLOWLINE
254	2263912.79	6311533.13	WALNUT ST WEST FLOWLINE
255	2263895.74	6311517.65	WALNUT ST WEST FLOWLINE
256	2263844.68	6311525.46	WALNUT ST WEST FLOWLINE
257	2263948.51	6311213.04	BLOCK WALL
258	2264381.93	6311342.39	BLOCK WALL
259	2264381.87	6311364.88	BLOCK WALL
260	2264352.60	6311402.27	BLOCK WALL
261	2264340.07	6311466.96	BLOCK WALL
262	2264341.18	6311529.63	BLOCK WALL
263	2264359.25	6311816.40	BLOCK WALL
264	2264365.96	6311632.29	BLOCK WALL
265	2264419.36	6311707.06	BLOCK WALL
266	2264485.92	6311763.76	BLOCK WALL

**BASIS OF COORDINATES**  
 THE COORDINATES ARE NAD83(CORS), EPOCH 2010.00, CALIFORNIA STATE PLANE COORDINATES, ZONE 5.

THE STATE PLANE COORDINATES WERE DERIVED USING OPUS (ONLINE POSITIONING USERS SERVICE). THE FOLLOWING CORS STATIONS WERE USED BY OPUS TO DETERMINE THE COORDINATES:  
 PD 0N7419 P560 STOKESPROPCS2005 CORS ARP  
 PD 0N7416 P554 GORMANCSK CS2006 CORS ARP  
 PD 0N7422 P567 ROBBANO CS2005 CORS ARP

THE IGS RAPID ORBIT WAS USED TO PROCESS THE DATA.

**SITE BASIS OF BEARINGS**  
 THE BEARING OF N02°04'25"W BETWEEN THE FOUND POINT NUMBER 105 AND POINT NUMBER 50357, WAS BASED ON THE ABOVE BASIS OF COORDINATES AND WAS USED AS THE BASIS OF BEARINGS FOR THIS SURVEY.

THE BEARING OF S73°23'07"E BETWEEN CONTROL POINT 201 AND 202 SHOWN HEREON, WAS DERIVED FROM THE ABOVE NOTED BASIS OF BEARING.

**VERTICAL DATUM**  
 THE VERTICAL DATUM IS BASED ON NAVD 88 (COMPUTED USING GEOID 12A). THE ELEVATIONS WERE DERIVED FROM GPS OBSERVATIONS.

**SITE BENCHMARK**  
 TOP OF MONUMENT AT THE INTERSECTION OF VARSITY AVENUE AND CAMPUS DRIVE, POINT NUMBER 50357, BASED ON NAVD 88 VERTICAL DATUM. ELEVATION=452.62'

APPROVED BY: MIGUEL A. BACENAS, CITY ENGINEER

DATE: 8/1/2015

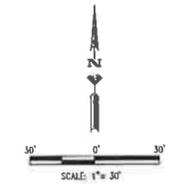
PROJECT NO: 150185

FILE NO: A150185 C201

SCALE: AS SHOWN

SHEET NO: C 201

811 Know what's below. Call before you dig.



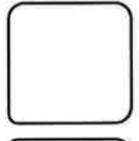
**BASIS OF COORDINATES**  
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 THE STATE PLANE COORDINATES WERE DERIVED USING OPUS (ONLINE POSTWORKING USERS SERVICE). THE FOLLOWING CORS STATIONS WERE USED BY OPUS TO DETERMINE THE COORDINATES:  
 PID 0N7419 P560 STOKESPROJCS2005 CORS ARP  
 PID 0N7416 P554 GORMANWCK CS2006 CORS ARP  
 PID 0N7422 P567 HOBGRAND CS2005 CORS ARP  
 THE IOS RAPID ORBIT WAS USED TO PROCESS THE DATA.

**SITE BASIS OF BEARINGS**  
 THE BEARING OF  $N00^{\circ}04'25''W$  BETWEEN THE FOUND POINT NUMBER 105 AND POINT NUMBER 50357, WAS BASED ON THE ABOVE BASIS OF COORDINATES AND WAS USED AS THE BASIS OF BEARINGS FOR THIS SURVEY.  
 THE BEARING OF  $S73^{\circ}21'07''E$  BETWEEN CONTROL POINT 201 AND 202 SHOWN HEREON, WAS DERIVED FROM THE ABOVE NOTED BASIS OF BEARING.

**VERTICAL DATUM**  
 THE VERTICAL DATUM IS BASED ON NAVD 88 (COMPUTED USING GEOID 12A). THE ELEVATIONS WERE DERIVED FROM GPS OBSERVATIONS.

**SITE BENCHMARK**  
 TOP OF MONUMENT AT THE INTERSECTION OF VARSITY AVENUE AND CAMPUS DRIVE, POINT NUMBER 50357, BASED ON NAVD 88 VERTICAL DATUM, ELEVATION=452.62'

REVISION	DATE	DESCRIPTION
1	11/27/2015	PROJECT UPDATE FOR COMMENTS REQUEST



APPROVED BY:  
 \_\_\_\_\_  
 TITLE: ROBERT K. BECKENS  
 CITY ENGINEER

APPROVED BY:  
 \_\_\_\_\_  
 TITLE: \_\_\_\_\_  
 PROJECT NO.: 87700

REVISIONS BY:  
 \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_

3940 SOUTHWEST AVE.  
 ANAHEIM, CA 92804  
 TEL: (714) 941-2600  
 FAX: (714) 941-2601  
 WWW.QUADKNOTP.COM

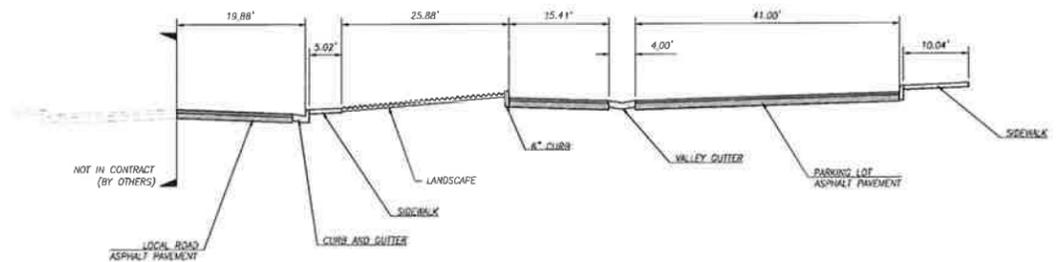
QUAD KNOTP  
 A DIVISION OF THE QUAD SYSTEMS, INC. CHICAGO, IL

IMPROVEMENT PLAN FOR:  
**CITY OF ARVIN**  
 ARVIN, CA 93203  
 (815) 834-3134

**GARDEN IN THE SUN PARK**  
**GRADING PLAN**

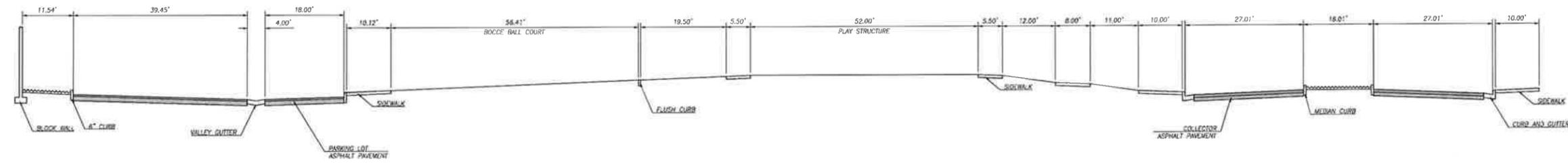
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 SCALE: AS SHOWN  
 SHEET NO.: C 901





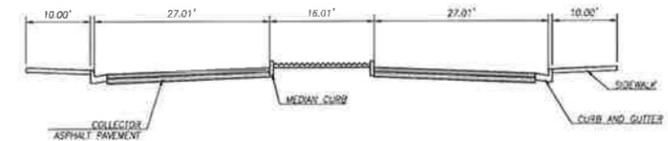
**A SECTION A**

NTS



**B SECTION B**

NTS



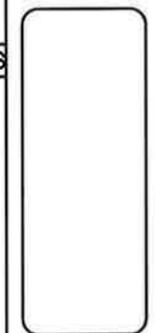
**C SECTION C**

NTS

REVISION	DATE	DESCRIPTION
17/2/2015	OK	PROJECT UPDATE FOR DRAFT - 4/2015



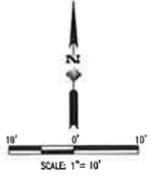
APPROVED BY: *Angel K. Baccenas*  
 DATE: 5/7/2015  
 ANGEL K. BACCENAS  
 CITY ENGINEER



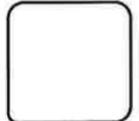
1500 CALIFORNIA AVE  
 SUITE 220  
 BAKERSFIELD, CA 93301  
 (805) 834-3134  
 WWW.QUADKNOPF.COM  
 QUAD KNOPF  
 A CORPORATION OF CALIFORNIA INC. ENGINEERING & ARCHITECTURE

IMPROVEMENT PLAN FOR  
**CITY OF ARVIN**  
 300 CALIFORNIA AVE  
 ARVIN, CA 93203  
 (805) 834-3134  
**GARDEN IN THE SUN PARK**  
**GRADING SECTIONS**

PROJECT DATE: JULY 1, 2015  
 JOB NO: A150185  
 FILE NAME: A150185 C303  
 SCALE: AS SHOWN  
 SHEET NO: C 303

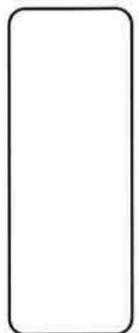


NO.	REVISION	DATE	DESCRIPTION
1	PROJECT APPROX. FOR OWNER'S REVIEW	7/7/2015	



APPROVED BY:  
 ANGELE A. BICEANS  
 CITY ENGINEER

DATE: 7/7/2015



PREPARED BY:  
**Quad Knopf**  
 A CORPORATION OF CALIFORNIA  
 1000 CALIFORNIA AVE  
 SUITE 200  
 BAYVIEW, CA 94026  
 TEL: (415) 816-2500  
 FAX: (415) 816-2501  
 WWW.QUADKNOPF.COM

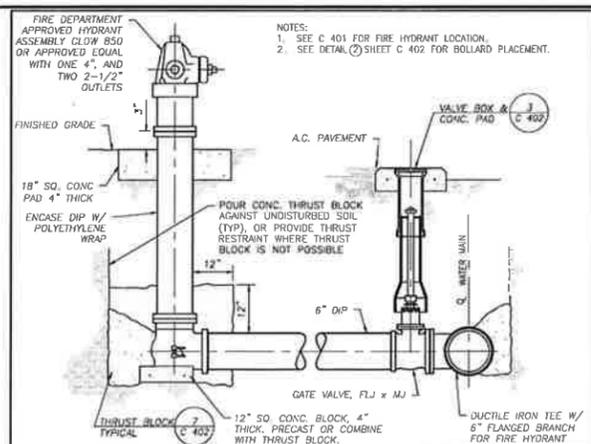
APPROVED FOR THE CITY OF ARVIN  
**CITY OF ARVIN**  
 1000 CALIFORNIA AVE  
 ARVIN, CA 93203  
 (415) 854-3134

**GARDEN IN THE SUN PARK  
 UTILITY PLAN**

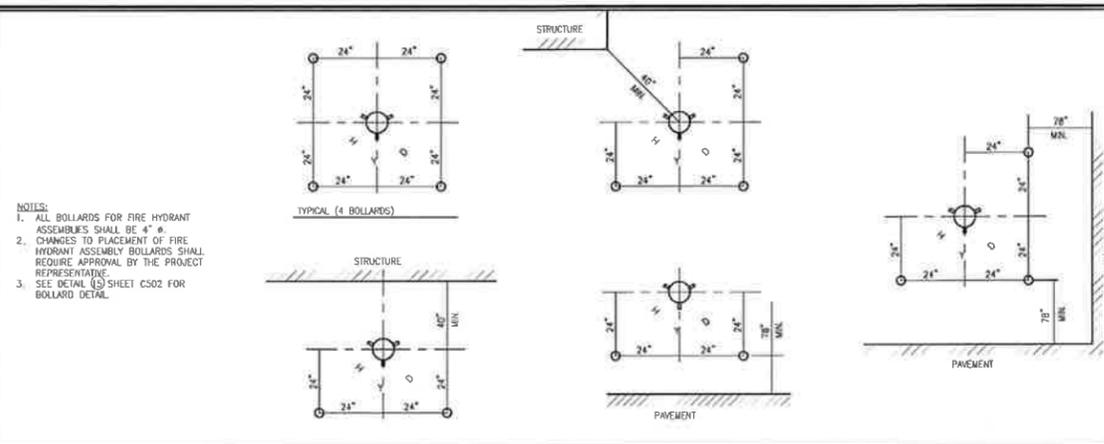
PLAT DATE: JULY 1, 2015  
 JOB NO.: A150185  
 FILE NAME: A150185 C401  
 SCALE: AS SHOWN  
 SHEET NO.: C 401



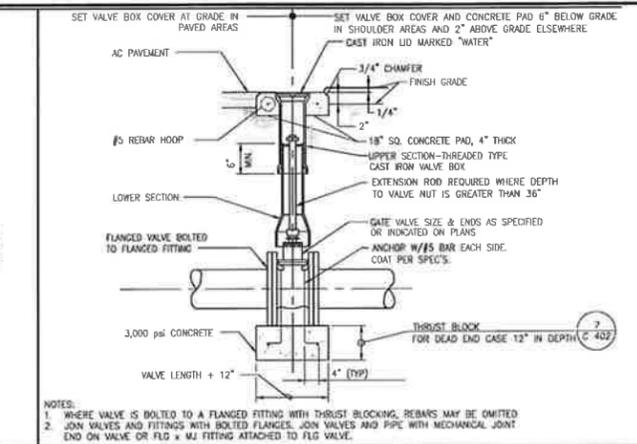




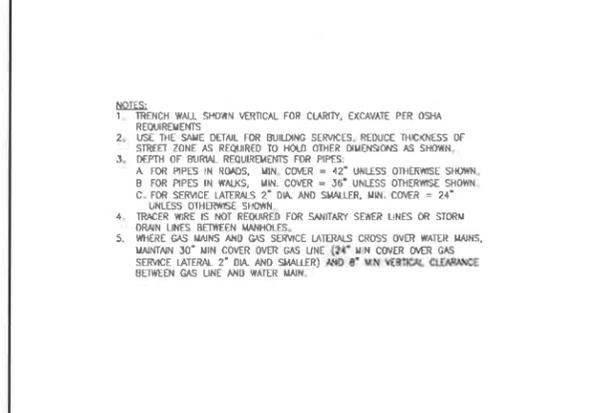
**1 FIRE HYDRANT ASSEMBLY** NTS



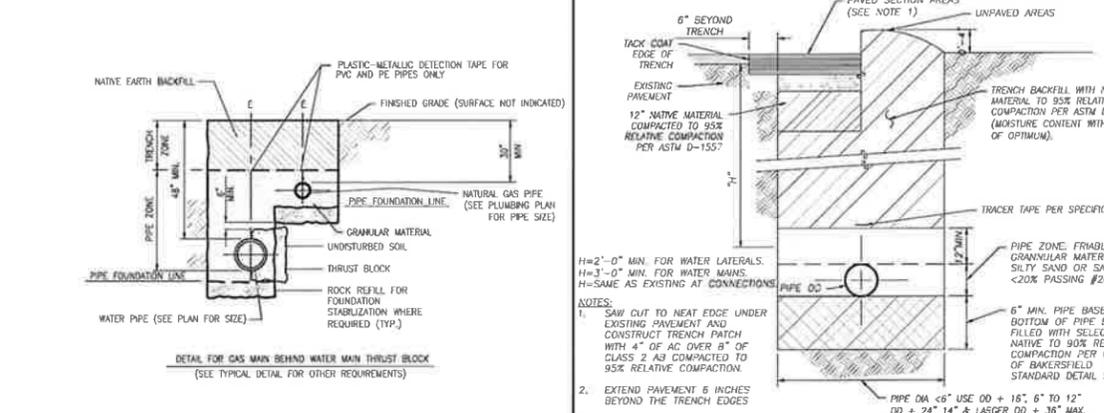
**2 TYPICAL BOLLARD PLACEMENT FOR FIRE HYDRANT ASSEMBLIES** NTS



**3 BURIED WATER VALVE** NTS



**4 JOINT UTILITY TRENCH** NTS



**5 UTILITY TRENCH DETAIL** NTS

**THRUST BLOCK DIMENSIONS - UPWARD THRUST**

PIPE SIZE	11 1/4" BEND			22 1/2" BEND			45" BEND		
	L	W	H	L	W	H	L	W	H
3", 4", 6"	2'-0"	2'-0"	1'-0"	2'-0"	2'-0"	1'-0"	3'-0"	2'-0"	2'-0"
8"	2'-0"	2'-0"	1'-0"	3'-0"	2'-0"	2'-0"	4'-6"	2'-0"	3'-0"

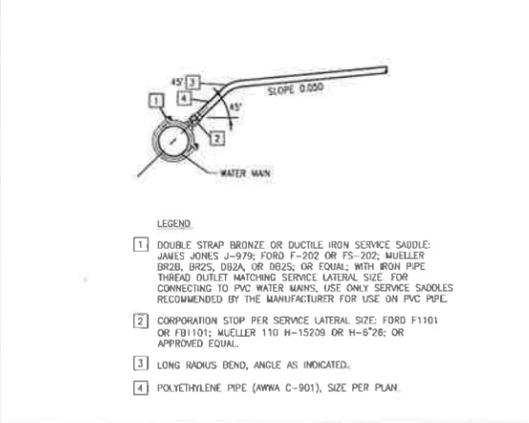
**6 THRUST BLOCKS AT VERTICAL BENDS** NTS

**REQUIRED BEARING AREA - TOTAL SQUARE FEET**

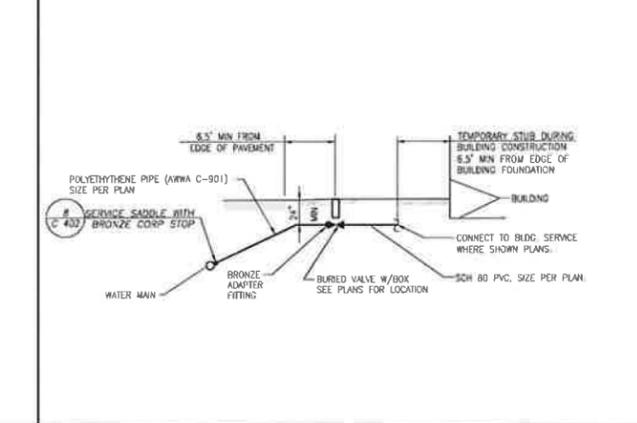
TYPE OF FITTING	90° BEND	45° BEND	11 1/4" OR 22 1/2" BEND	TEE OR DEAD END	TEE WITH PLUG	CROSS WITH PLUG
3" & 4"	2 sf	1 sf	1 sf	2 sf	2 sf	2 sf
6"	4 sf	2 sf	1 sf	3 sf	4 sf	4 sf
8"	7 sf	4 sf	2 sf	5 sf	7 sf	7 sf
12"	16 sf	10 sf	5 sf	12 sf	16 sf	16 sf

**GENERAL NOTES:**  
 1. THRUST BLOCKS TO BE CONSTRUCTED OF CLASS "B" CONCRETE.  
 2. BLOCKS TO BE POURED AGAINST UNDISTURBED SOIL.  
 3. JOINTS AND FACE OF PLUGS TO BE KEPT CLEAR OF CONCRETE.  
 4. MINIMUM THICKNESS OF THRUST BLOCKS TO BE 6 INCHES.  
 5. AREAS GIVEN ARE FOR C900 - D818 AND DIP PIPE AT PRESSURE OF 150 P.S.I. IN SOIL WITH 2000 P.S.F. BEARING CAPACITY FOR SHALLOW PIPES ABOVE THE GROUNDWATER. INSTALLATION USING DIFFERENT PIPE, TEST PRESSURES, AND/OR SOIL TYPES SHOULD ADJUST AREAS ACCORDINGLY. SUBJECT TO APPROVAL BY OWNER'S REPRESENTATIVE AND PER RECOMMENDATIONS OF GEOTECHNICAL INVESTIGATION BY BSK ASSOCIATES DATED JUNE 18, 2015, PROJECT # BSK G15-104-11B.

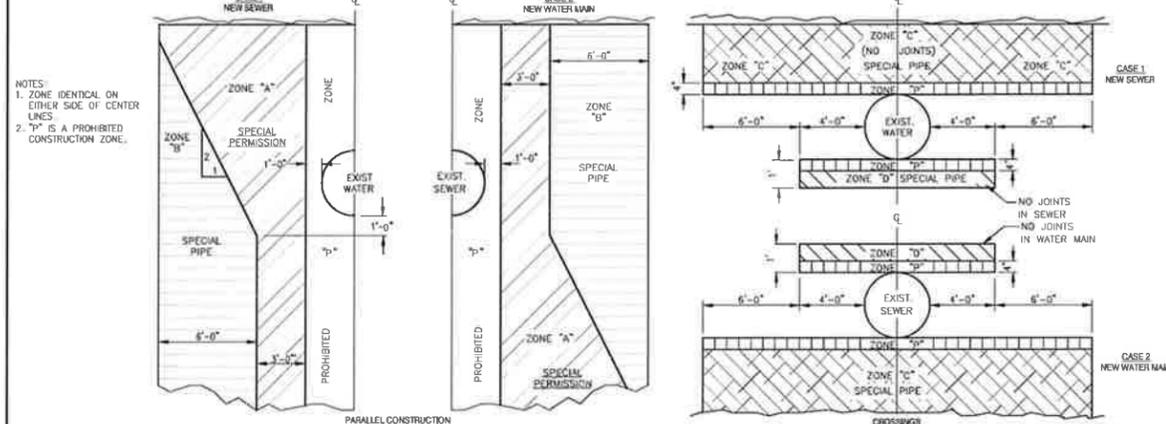
**7 THRUST BLOCK BEARING AREA REQUIREMENTS** NTS



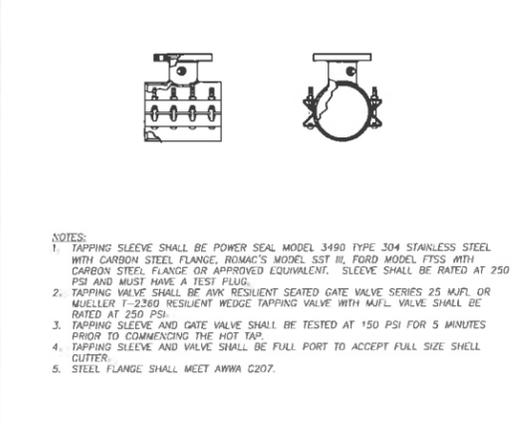
**8 WATER SERVICE SADDLE** NTS



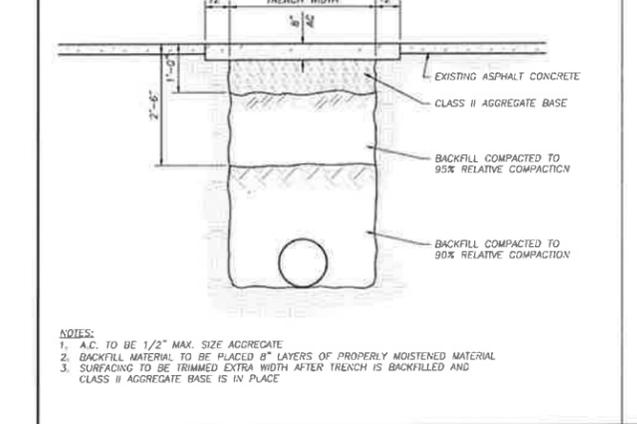
**9 TYPICAL WATER SERVICE LATERAL** NTS



**10 STANDARDS FOR SEPERATION OF WATER AND SEWER LINES** NTS



**11 TAPPING SLEEVE** NTS



**12 TYPICAL TRENCH CROSSING** NTS

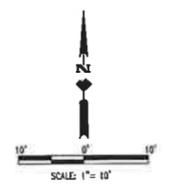
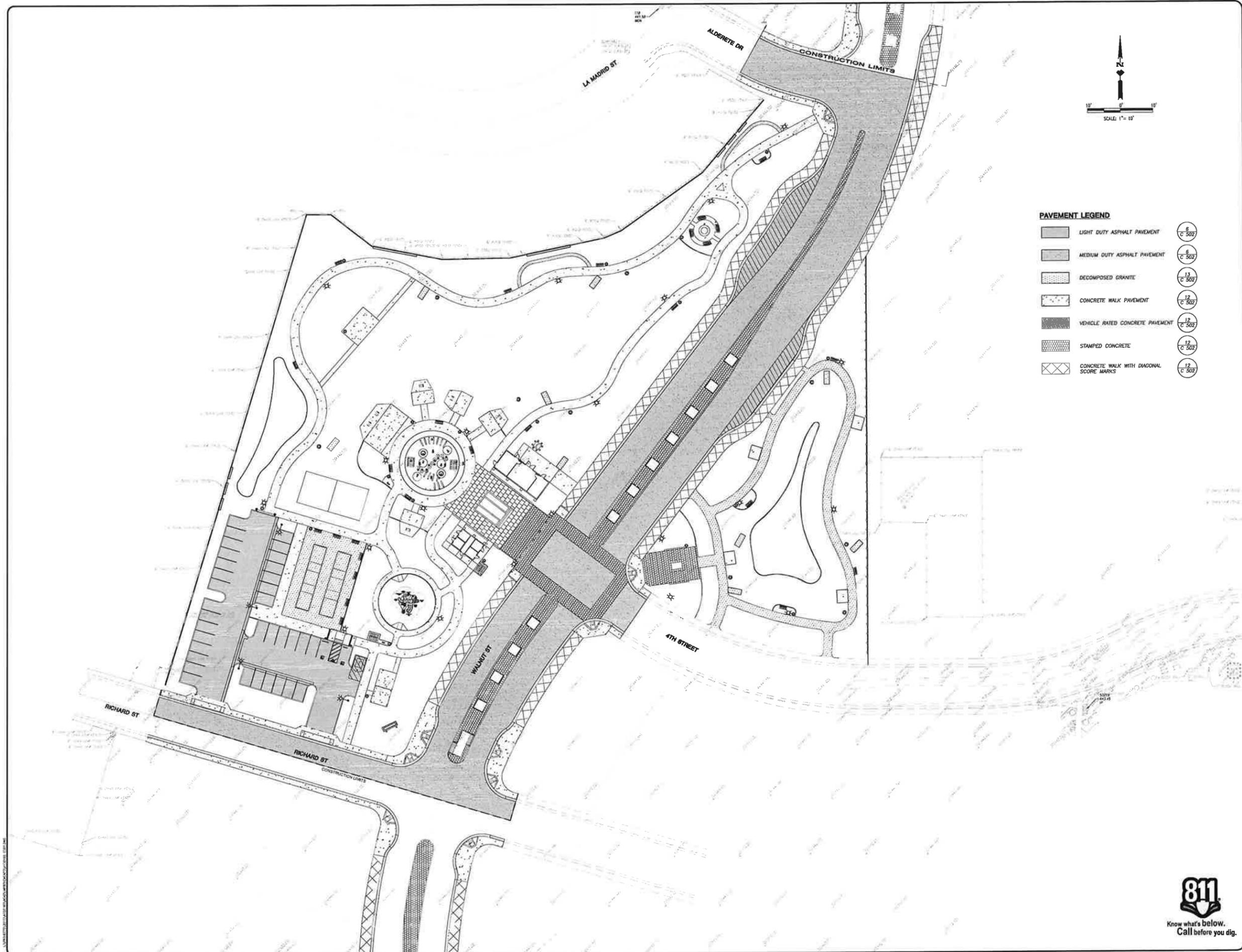
PROJECT NO. 1772223  
 DATE 07/2015  
 SHEET NO. 0403

APPROVED BY: [Signature]  
 TITLE: [Title]  
 DATE: 8/7/2015

QUAD KNOPF  
 5001 CALIFORNIA AVE.  
 SUITE 200  
 BAKERSFIELD, CA 93309  
 PHONE: (805) 834-3134  
 FAX: (805) 834-3134  
 WWW.QUADKNOPF.COM

PROJECT NAME: CITY OF ARVIN  
 200 CAMPUIS DRIVE  
 ARVIN, CA 93203  
 (805) 834-3134

DATE: MAY 1, 2015  
 JOB NO: A150185  
 FILE NAME: A150185 C403  
 SCALE: AS SHOWN  
 SHEET NO. 0403



**PAVEMENT LEGEND**

	LIGHT DUTY ASPHALT PAVEMENT	
	MEDIUM DUTY ASPHALT PAVEMENT	
	DECOMPOSED GRANITE	
	CONCRETE WALK PAVEMENT	
	VEHICLE RATED CONCRETE PAVEMENT	
	STAMPED CONCRETE	
	CONCRETE WALK WITH DIAGONAL SCORE MARKS	



REVISION	DATE	BY	DESCRIPTION



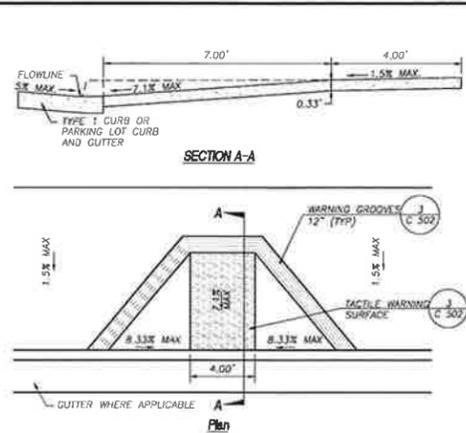
APPROVED BY: *Mark A. Bacenas*  
 DATE: 8/7/15  
 TITLE: CITY ENGINEER



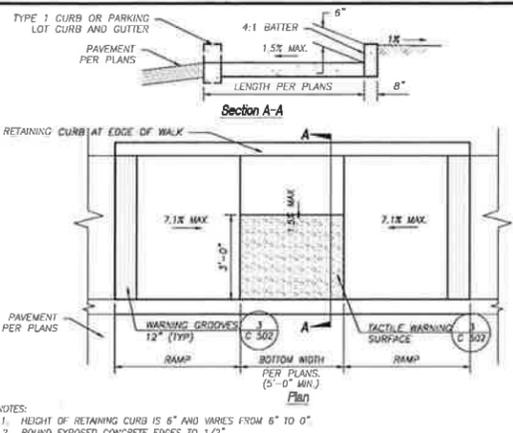
PREPARED BY:  
**Quad Knopf**  
 3000 BALDWIN AVE.  
 SUITE 220  
 BAKERSFIELD, CA 93305  
 (805) 834-3134 FAX (805) 815-2070  
 www.quadknopf.com  
 A LICENSED PROFESSIONAL ENGINEERING FIRM

PROJECT: IMPROVEMENT PLAN FOR  
**CITY OF ARVIN**  
 200 CAMPS DRIVE  
 ARVIN, CA 93203  
 (805) 834-3134  
**GARDEN IN THE SUN PARK  
 PAVEMENT PLAN**

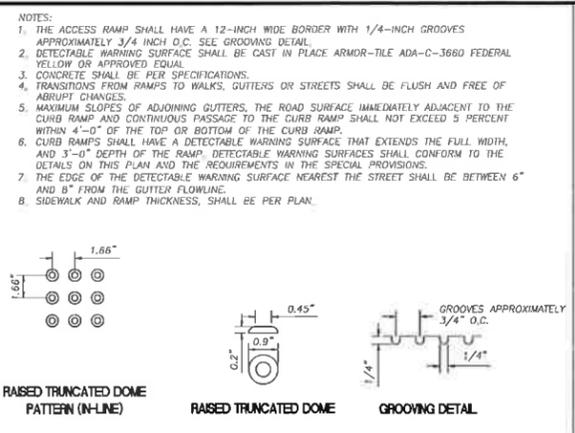
PROJECT DATE: JULY 1, 2015  
 JOB NO: A150185  
 PLOT NAME: A150185 CS01  
 SCALE: AS SHOWN  
 SHEET NO: C 801



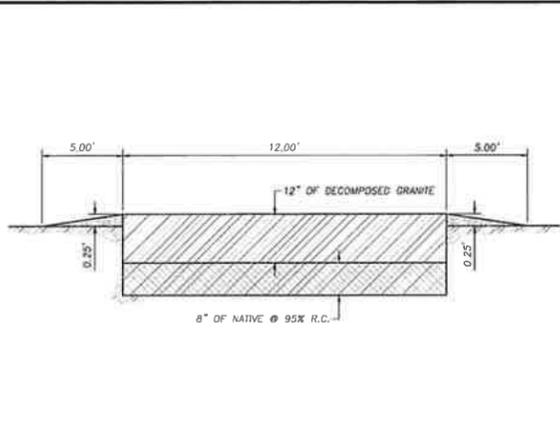
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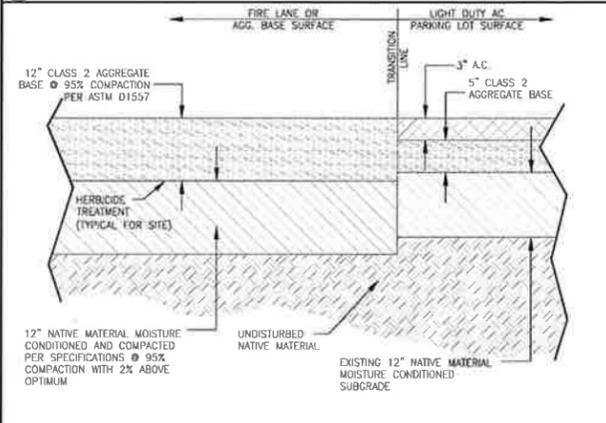
2 CASE C ACCESS RAMP NTS



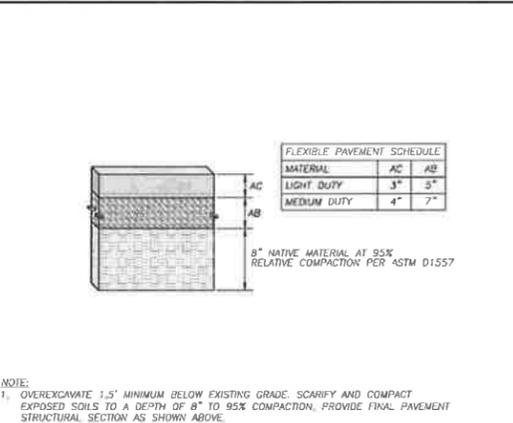
3 TACTILE WARNING SURFACE NTS



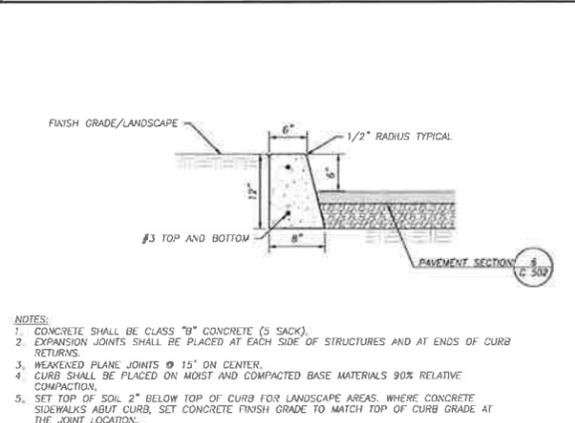
4 BOCCIE BALL SECTION NTS



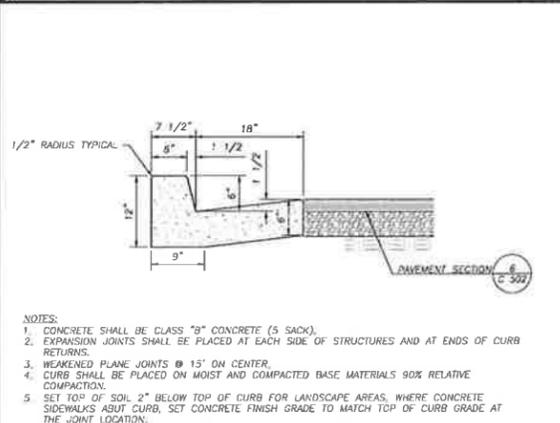
5 TRANSITION BETWEEN PAVEMENT SECTIONS NTS



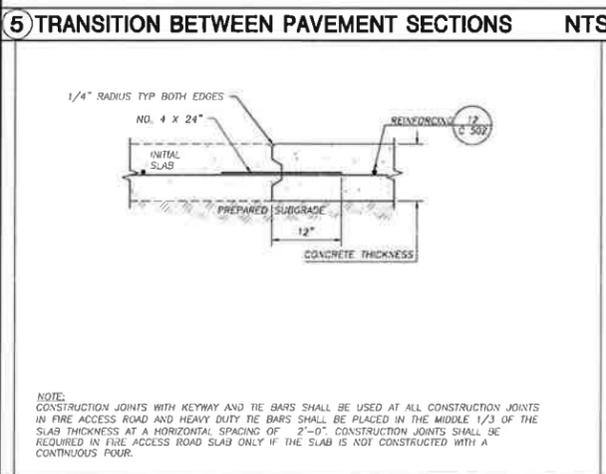
6 ASPHALT PAVEMENT NTS



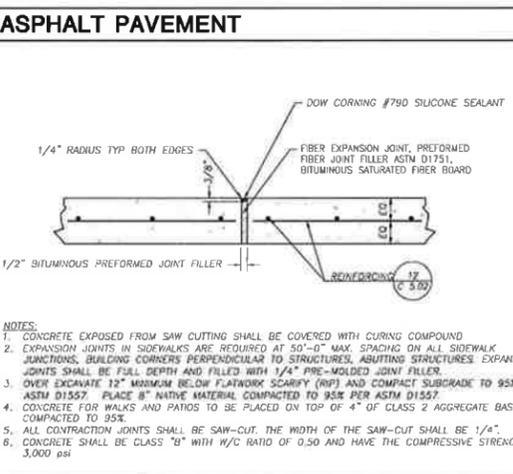
7 6 INCH CONCRETE CURB NTS



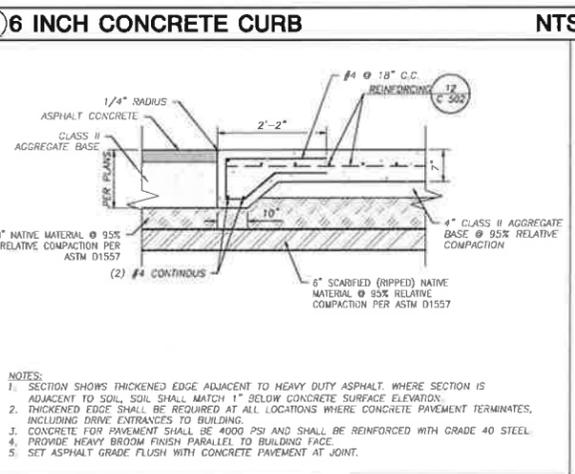
8 24 INCH CURB AND GUTTER NTS



9 TYPICAL CONSTRUCTION JOINT SECTION NTS



10 FIRE ACCESS WAY EXPANSION JOINTS NTS

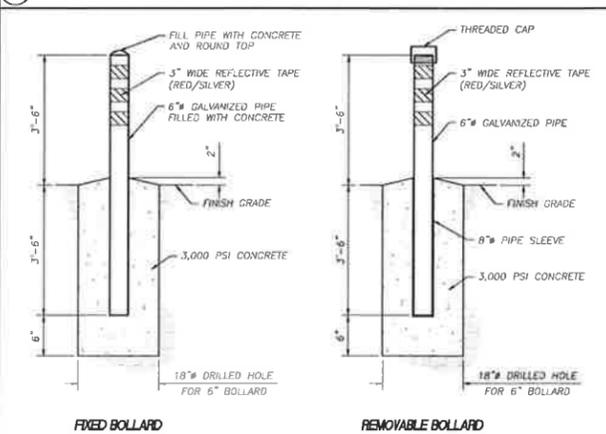


11 CONCRETE PAVEMENT THICKENED EDGE NTS

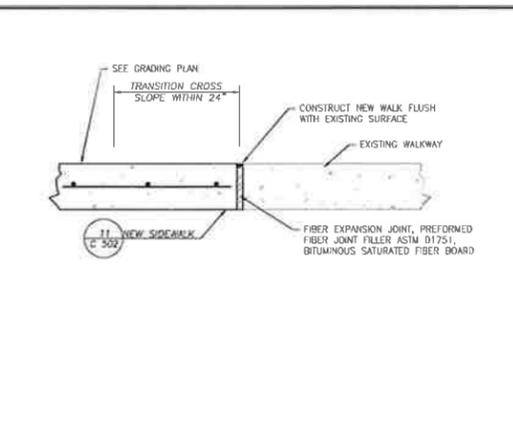
DESCRIPTION	CONCRETE THICKNESS	MAX CONTRACTION JOINT SPACING	DEPTH OF CONTRACTION JOINT	REINFORCEMENT	MAX EXPANSION JOINT SPACING	FINISH
TYPICAL SIDEWALK (MINIMUM SECTION)	4"	5'	1"	NONE	30'	SEE LANDSCAPE PLANS
VEHICLE RATED CONCRETE	6"	10'	1 1/2"	#4 @ 18" OC E.W. (SEE NOTE B)		SEE LANDSCAPE PLANS
CONCRETE PAVEMENT	7"	12'	2"	#4 @ 18" OC E.W. (SEE NOTE B)		MEDIUM BROOM
STAMPED CONCRETE	6"	10'	1 1/2"	#4 @ 18" OC E.W. (SEE NOTE B)		SEE LANDSCAPE PLANS

NOTES:  
 1. CONCRETE EXPOSED FROM SAW CUTTING SHALL BE COVERED WITH CURING COMPOUND.  
 2. EXPANSION JOINTS IN SIDEWALKS ARE REQUIRED AT ALL SIDEWALK JUNCTIONS, BUILDING CORNERS PERPENDICULAR TO STRUCTURES, ADJOINING STRUCTURES, JOINING CONCRETE PAVEMENT AND JOINING FIRE LANES. EXPANSION JOINTS SHALL BE FULL DEPTH AND FILLED WITH 1/4" PRE-MOLDED JOINT FILLER.  
 3. OVER EXCAVATE 6" MINIMUM BELOW FLATWORK SCARIFY (RIP) AND COMPACT SUBGRADE TO 95% PER ASTM D1557. PLACE 6" NATIVE MATERIAL COMPACTED TO 95% PER ASTM D1557.  
 4. CONCRETE FOR WALKS, AND PATIOS TO BE PLACED ON TOP OF 4" OF CLASS II AGGREGATE BASE COMPACTED TO 95%.  
 5. CONCRETE PAVEMENT AND VEHICLE RATED CONCRETE TO REST ON 4" CLASS II AGGREGATE BASE COMPACTED TO 95%.  
 6. ALL CONTRACTION JOINTS SHALL BE SAW-CUT. THE WIDTH OF THE SAW-CUT SHALL BE 1/4".  
 7. COMPRESSIVE STRENGTH OF CONCRETE SHALL CONFORM TO THE FOLLOWING:  
 A. WALKS - 2,500 psi  
 B. CURBS, GUTTERS - 3,000 psi  
 C. CONCRETE PAVEMENT - 4,000 psi  
 D. VEHICLE RATED CONCRETE PAVEMENT - 4,000 psi  
 8. EXPANSION JOINTS IN CONCRETE PAVEMENT SHALL BE PROVIDED ADJACENT TO STRUCTURES AND AT 50' MAXIMUM SPACING.

12 CONTRACTION JOINT SCHEDULE NTS



15 BOLLARDS NTS



16 TIE IN TO EXISTING DETAIL NTS

PROJECT UPDATE PER SHEET REVISIONS

NO.	DATE	DESCRIPTION

APPROVED BY: *Valerie A. Baeinas*  
 VALERIE A. BAEINAS  
 CITY ENGINEER

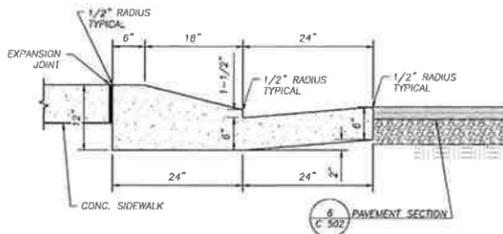
DATE: 07/20/15

PREPARED BY: *Quad Knopf*  
 QUAD KNOPF  
 500 CALIFORNIA AVE.  
 SUITE 200  
 BUCKLEUP, CA 95008  
 ARVIN, CA 93203  
 (818) 864-3134  
 WWW.QUADKNOPF.COM

PROJECT: CITY OF ARVIN  
 300 SHAWNS DRIVE  
 ARVIN, CA 93203  
 (818) 864-3134

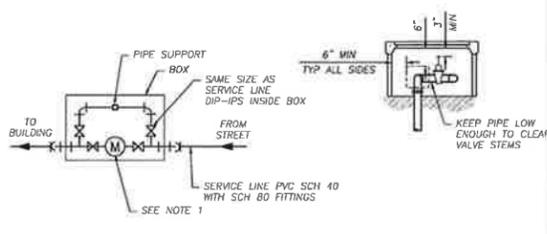
GARDEN IN THE SUN PARK  
 PAVING SECTIONS AND DETAILS

DATE: JULY 1, 2015  
 JOB NO: A150185  
 FILE NO: A150185 C502  
 SCALE: AS SHOWN  
 SHEET NO: C 602



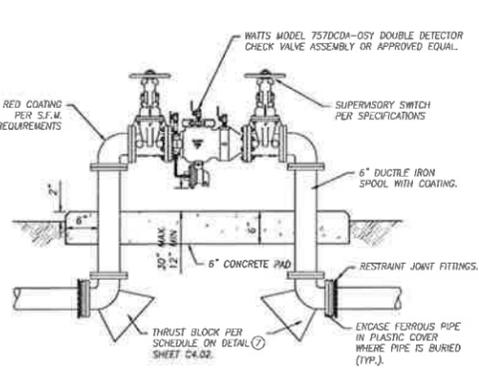
- NOTES:
1. CONCRETE SHALL BE CLASS "B" CONCRETE (3 SACK).
  2. EXPANSION JOINTS SHALL BE PLACED AT EACH SIDE OF STRUCTURES AND AT ENDS OF CURB RETURNS.
  3. WEAKENED FLANGE JOINTS @ 10' ON CENTER.
  4. CURB SHALL BE PLACED ON MOIST AND COMPACTED BASE MATERIALS 90% RELATIVE COMPACTION.
  5. SET TOP OF SOIL 2" BELOW TOP OF CURB FOR LANDSCAPE AREAS. WHERE CONCRETE SIDEWALKS ABUT CURB, SET CONCRETE FINISH GRADE TO MATCH TOP OF CURB GRADE AT THE JOINT LOCATION.

1 6 INCH ROLL CURB NTS

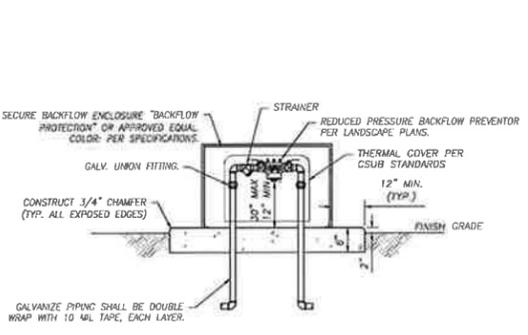


- NOTES:
1. 4" METER SHALL BE NEPTUNE WITH TRANSMITTER PER SPECIFICATIONS.
  2. BOXES TO BE ARMORCAST WITH ARMORCAST LID AND PROBE HOLE. BOX TO BE BIG ENOUGH TO ALLOW 6" OF CLEARANCE ON ALL SIDES.
  3. VALVES SHALL HAVE 2" NUT AND BE SOLID WEDGE RS. ALL FITTINGS TO BE FLANGED OR GLUE JOINTS.

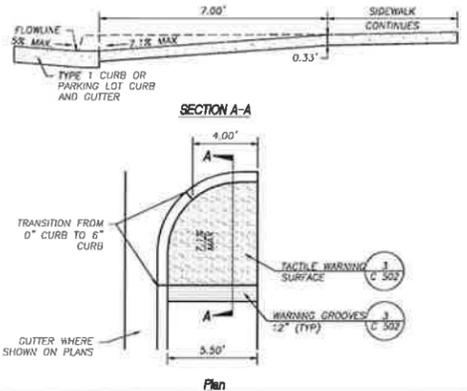
2 WATER SUB METER NTS



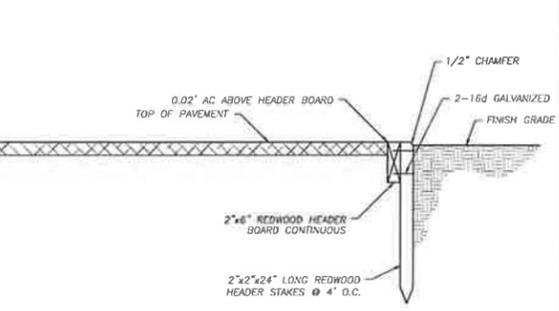
3 DOUBLE DETECTOR CHECK BACKFLOW PREVENTOR NTS



4 IRRIGATION BACKFLOW PREVENTOR NTS



5 CASE B ACCESS RAMP NTS



6 REDWOOD HEADER NTS

DATE	DESCRIPTION

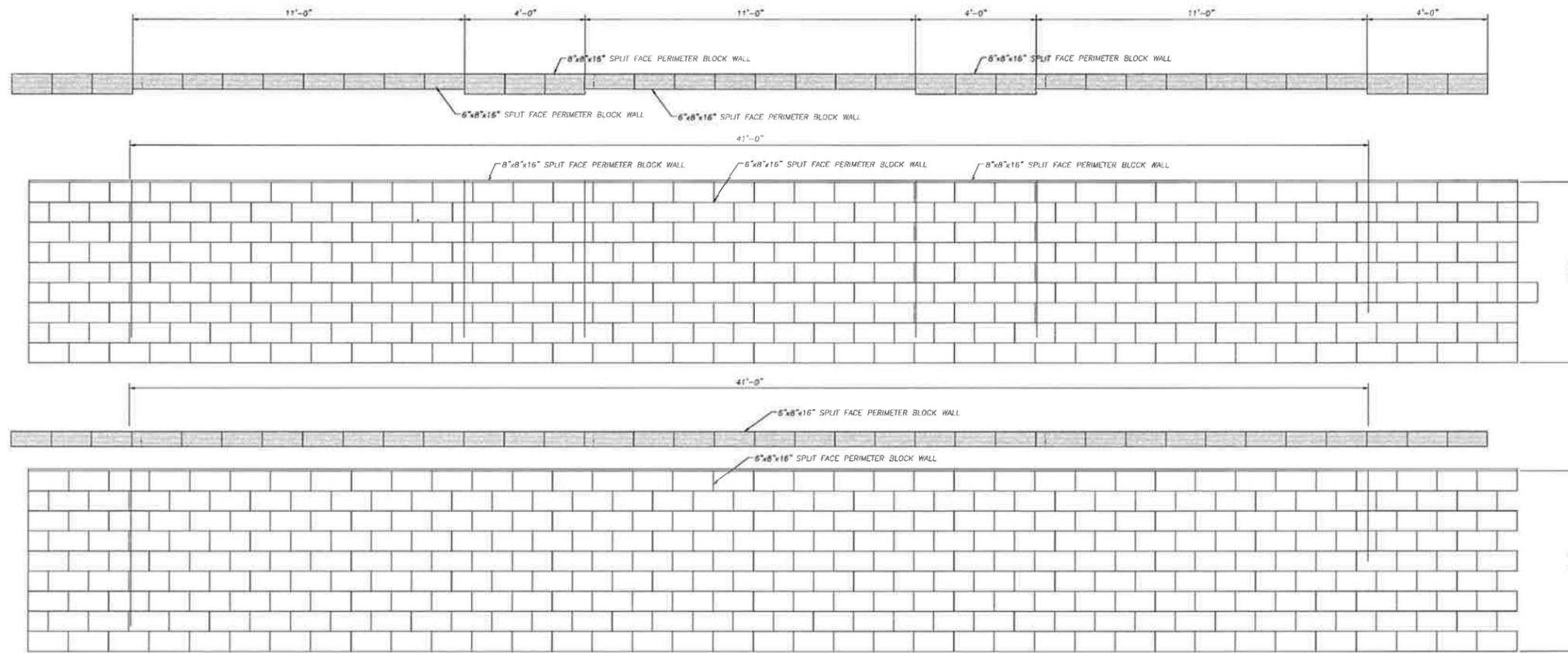


APPROVED BY:  
 DATE: 8/7/00  
 DANIEL K. BACENAS  
 CITY ENGINEER



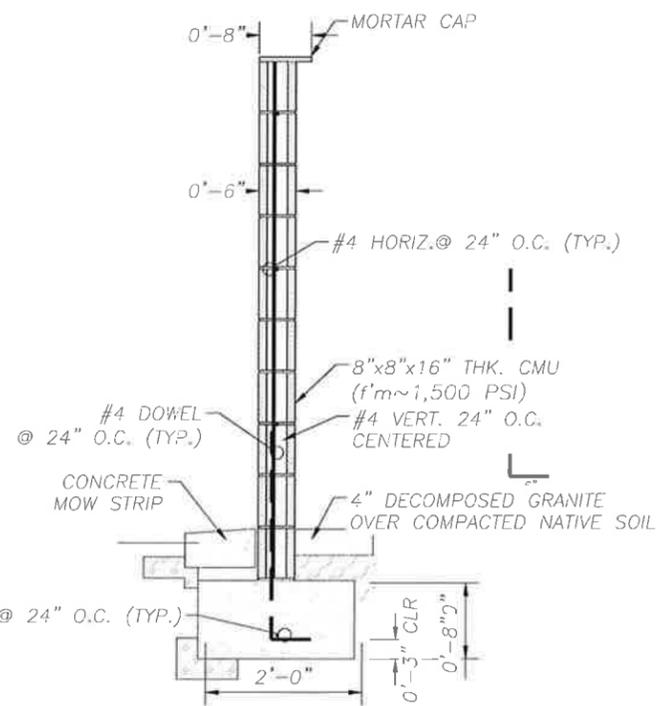
PREPARED BY:  
 CITY OF ARVIN  
 300 CAMDEN DRIVE  
 ARVIN, CA 93203  
 (805) 834-3134  
 GARDEN IN THE SUN PARK  
 PAVING DETAILS

PROJECT DATE: JULY 1, 2005  
 JOB NO: A150185  
 FILE NAME: A150068/150185  
 SCALE: AS SHOWN  
 SHEET NO: C 600



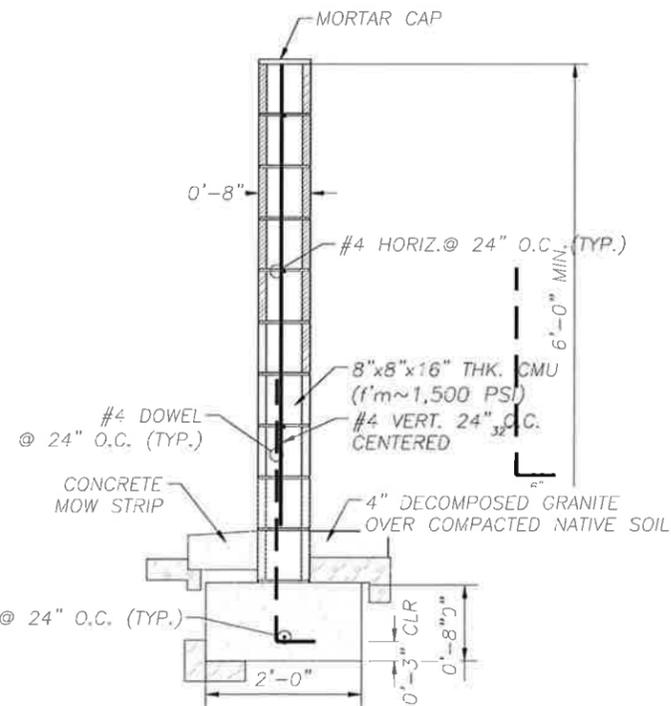
1 6' BLOCK WALL

NTS



B 6' BLOCK WALL (6"CMU)

NTS



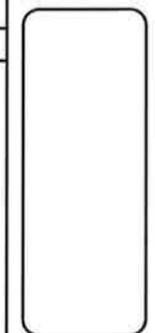
B 6' BLOCK WALL (8"CMU)

NTS

NO.	DATE	DESCRIPTION



APPROVED BY:  
 DATE: 5/7/2015  
 PROJECT UPDATE PER OWNER REQUEST

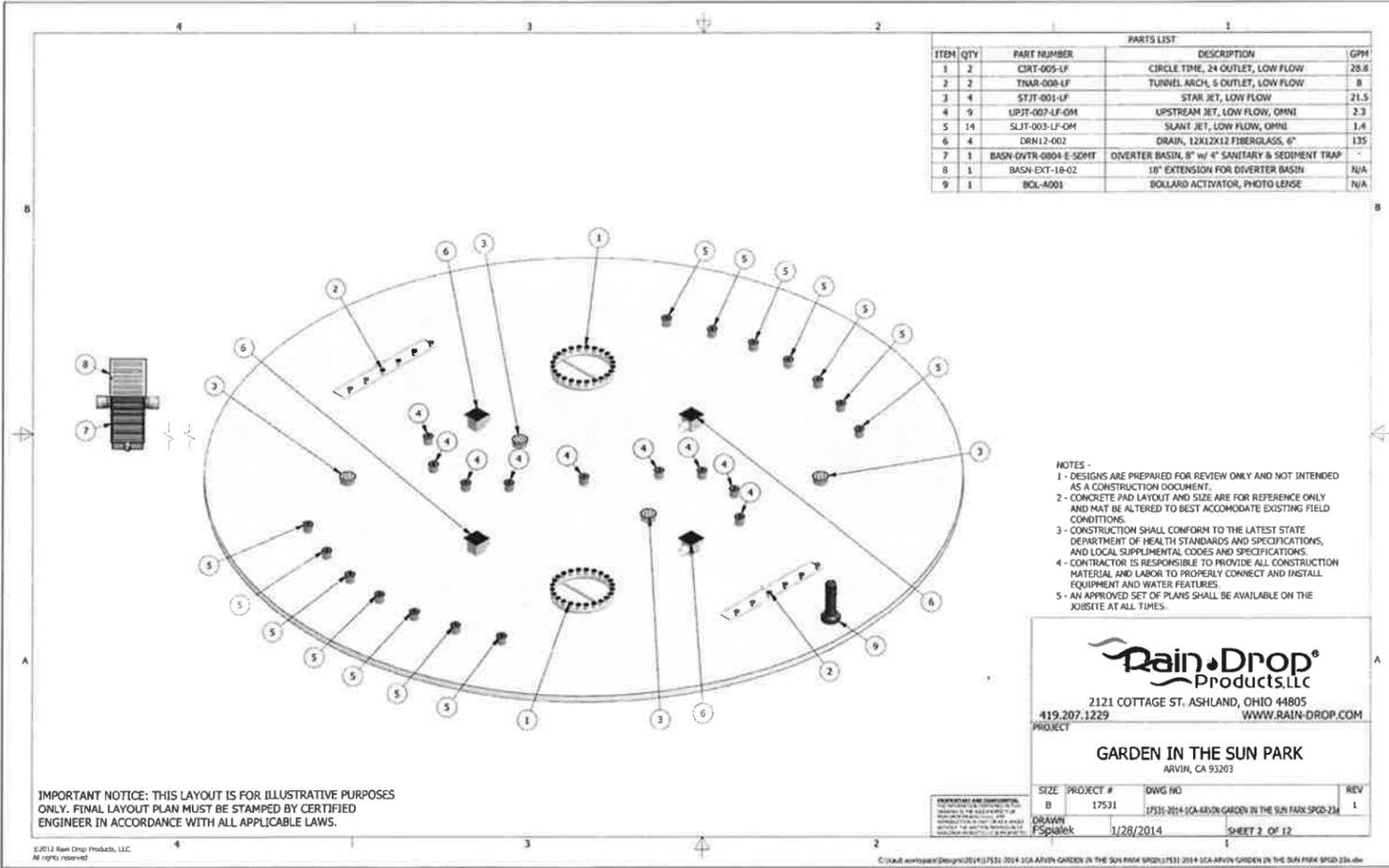
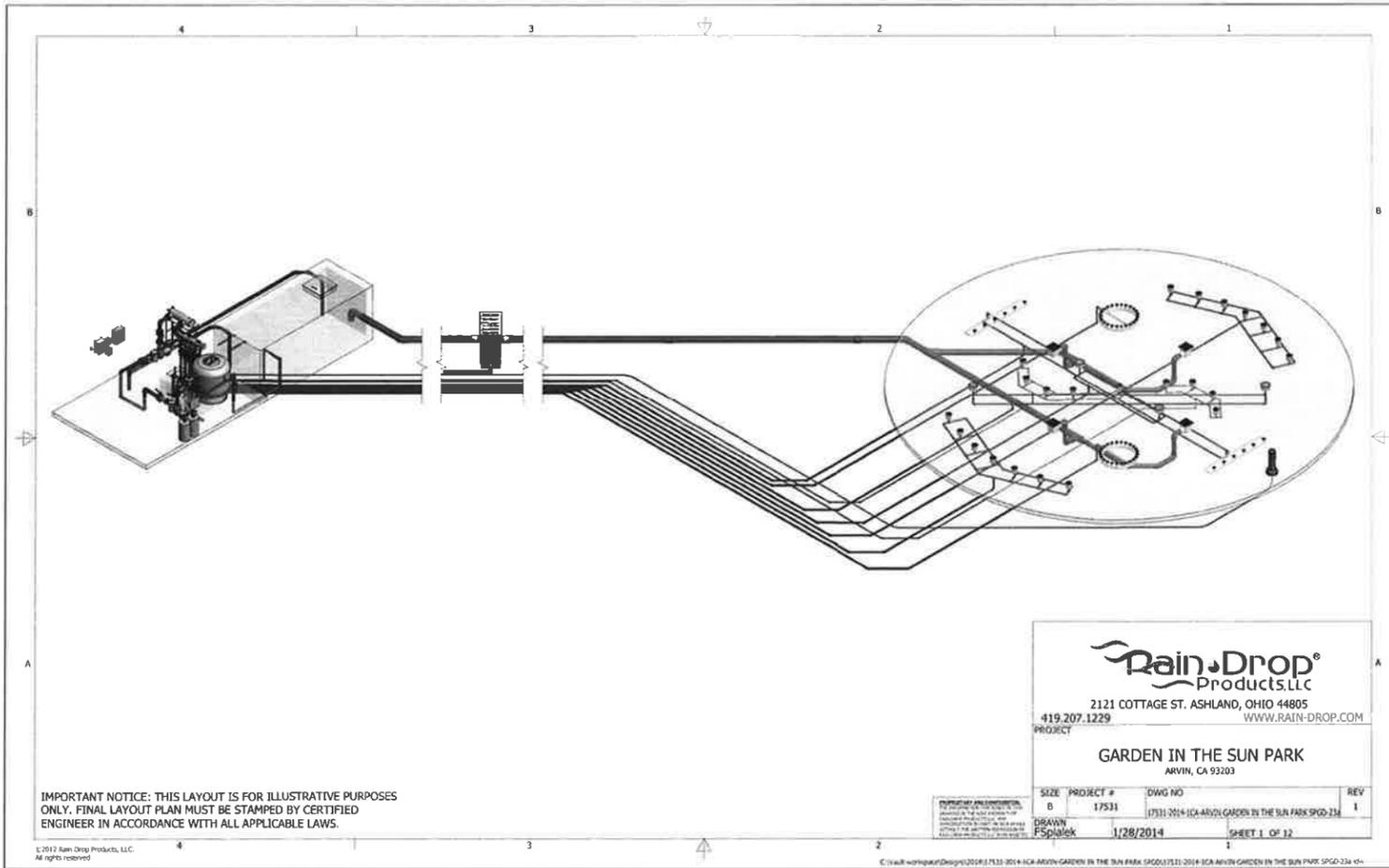


QUAD KNOTP  
 1000 CALIFORNIA AVE  
 SUITE 200  
 BIRMINGHAM, CA 92603  
 ARVIN, CA 93203  
 (818) 854-3134  
 WWW.QUADKNOTP.COM

IMPROVEMENT PLAN FOR  
 CITY OF ARVIN  
 300 CAMDEN DRIVE  
 ARVIN, CA 93203  
 (818) 854-3134  
 GARDEN IN THE SUN PARK  
 WALL PLANS

POST DATE: JULY 1, 2015  
 JOB NO: A150185  
 FILE NAME: A150185 C504  
 SCALE: AS SHOWN  
 SHEET NO: C504





REVISIONS

NO.	DATE	DESCRIPTION
1	01/28/2014	ISSUED FOR PERMIT REQUEST

APPROVED BY: *[Signature]*  
 DATE: 1/28/2014  
 PROJECT NO: 17531  
 SHEET NO: 0202

PROJECT: GARDEN IN THE SUN PARK  
 ARVIN, CA 93203

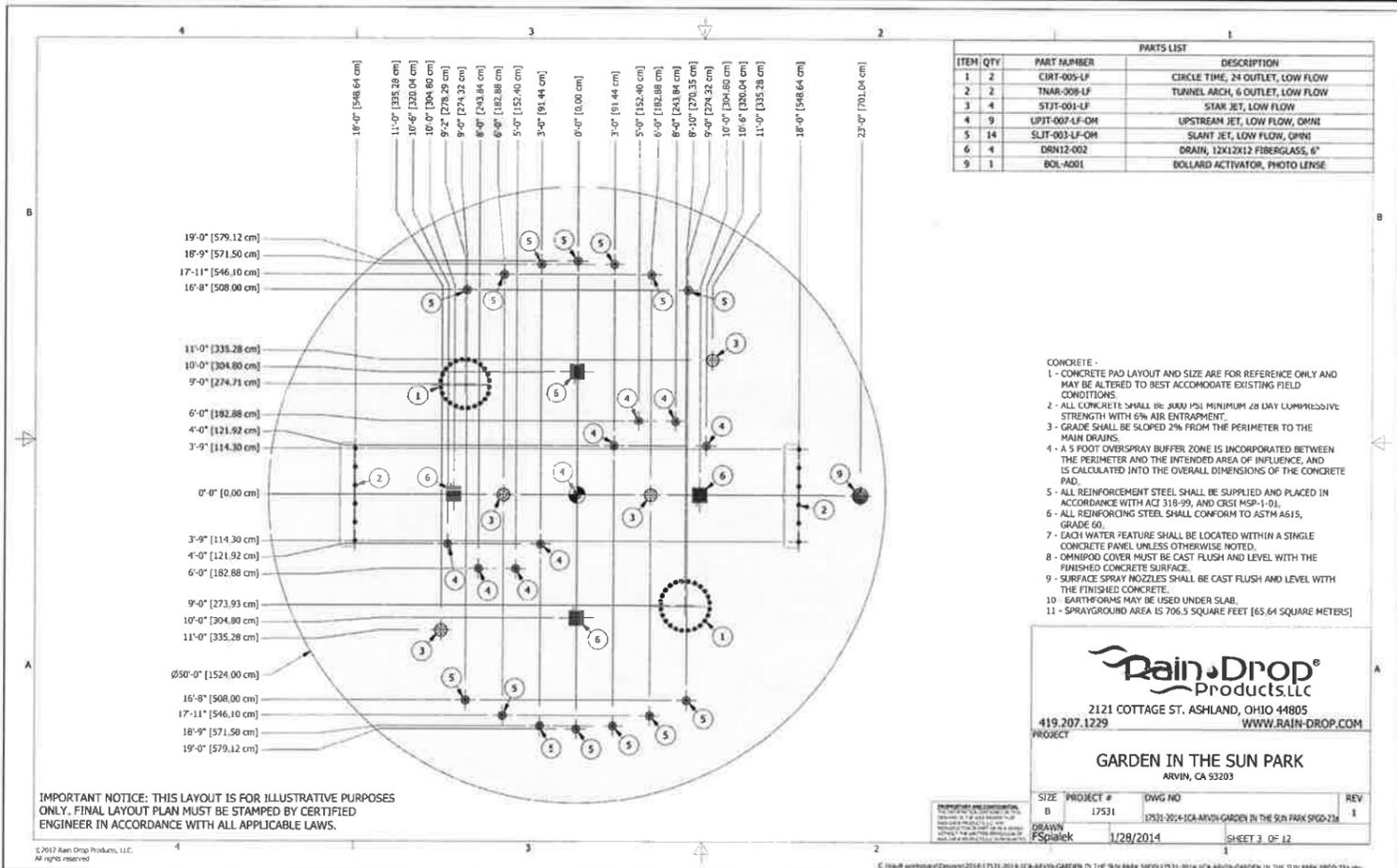
DESIGNED BY: *[Signature]*  
 DATE: 1/28/2014  
 PROJECT NO: 17531  
 SHEET NO: 0202

QUAD KNOTP INC.  
 1000 CALIFORNIA AVE.  
 SUITE 200  
 ARVIN, CA 93203  
 TEL: (562) 846-2800  
 FAX: (562) 846-2801  
 WWW.QUADKNOTP.COM

CITY OF ARVIN  
 200 CAMRUS DRIVE  
 ARVIN, CA 93203  
 (562) 839-3134

GARDEN IN THE SUN PARK  
 SPRAY PARK DETAILS

PLAT DATE: 01/28/2014  
 JOB NO: A150165  
 FILE NAME: A150165\_C802  
 SCALE: AS SHOWN  
 SHEET NO: 0202



- CONCRETE -
- 1 - CONCRETE PAD LAYOUT AND SIZE ARE FOR REFERENCE ONLY AND MAY BE ALTERED TO BEST ACCOMMODATE EXISTING FIELD CONDITIONS.
  - 2 - ALL CONCRETE SHALL BE 3000 PSI MINIMUM 28 DAY COMPRESSIVE STRENGTH WITH 6% AIR ENTRAPMENT.
  - 3 - GRADE SHALL BE SLOPED 2% FROM THE PERIMETER TO THE MAIN DRAINS.
  - 4 - A 5 FOOT OVERSPRAY BUFFER ZONE IS INCORPORATED BETWEEN THE PERIMETER AND THE INTENDED AREA OF INFLUENCE, AND IS CALCULATED INTO THE OVERALL DIMENSIONS OF THE CONCRETE PAD.
  - 5 - ALL REINFORCEMENT STEEL SHALL BE SUPPLIED AND PLACED IN ACCORDANCE WITH ACI 318-09, AND OCSI HSP-1-01.
  - 6 - ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
  - 7 - EACH WATER FEATURE SHALL BE LOCATED WITHIN A SINGLE CONCRETE PANEL UNLESS OTHERWISE NOTED.
  - 8 - OMNIPOD COVER MUST BE CAST FLUSH AND LEVEL WITH THE FINISHED CONCRETE SURFACE.
  - 9 - SURFACE SPRAY NOZZLES SHALL BE CAST FLUSH AND LEVEL WITH THE FINISHED CONCRETE.
  - 10 - EARTHFORMS MAY BE USED UNDER SLAB.
  - 11 - SPRAYGROUND AREA IS 706.5 SQUARE FEET [65.64 SQUARE METERS]

**Rain-Drop Products, LLC**  
 2121 COTTAGE ST. ASHLAND, OHIO 44805  
 419.207.1229 WWW.RAIN-DROP.COM

PROJECT: GARDEN IN THE SUN PARK  
 ARVIN, CA 93203

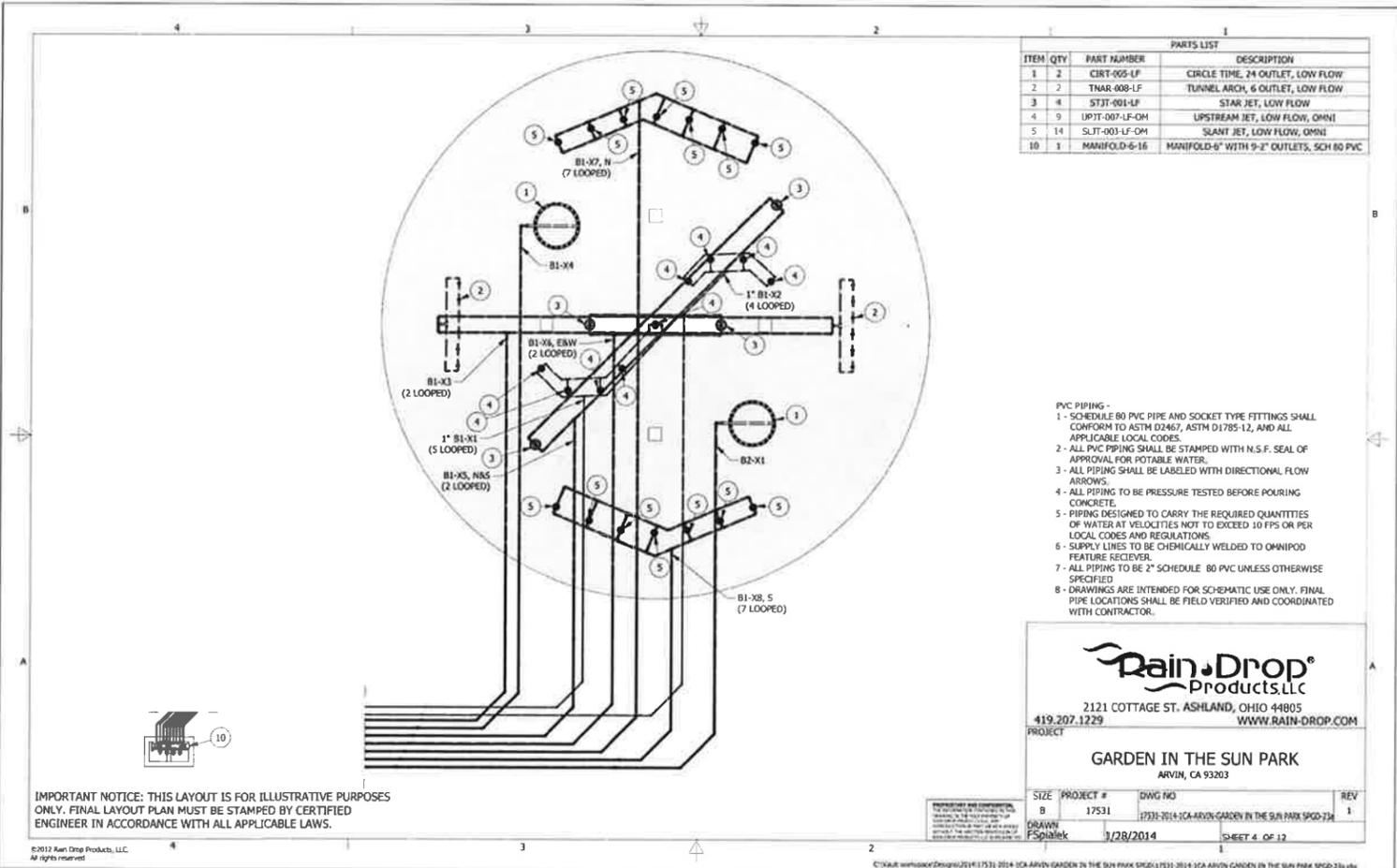
SIZE	PROJECT #	DWG NO	REV
B	17531	17531-2014-ICA-ARVIN-GARDEN IN THE SUN PARK SPGD-23A	1

DRAWN: FSplalek 1/28/2014 SHEET 3 OF 12

IMPORTANT NOTICE: THIS LAYOUT IS FOR ILLUSTRATIVE PURPOSES ONLY. FINAL LAYOUT PLAN MUST BE STAMPED BY CERTIFIED ENGINEER IN ACCORDANCE WITH ALL APPLICABLE LAWS.

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C:\Users\user\Desktop\2014\17531\2014-ICA-ARVIN-GARDEN IN THE SUN PARK SPGD-23A.dwg



- PVC PIPING -
- 1 - SCHEDULE 80 PVC PIPE AND SOCKET TYPE FITTINGS SHALL CONFORM TO ASTM D2467, ASTM D1785-12, AND ALL APPLICABLE LOCAL CODES.
  - 2 - ALL PVC PIPING SHALL BE STAMPED WITH N.S.F. SEAL OF APPROVAL FOR POTABLE WATER.
  - 3 - ALL PIPING SHALL BE LABELED WITH DIRECTIONAL FLOW ARROWS.
  - 4 - ALL PIPING TO BE PRESSURE TESTED BEFORE POURING CONCRETE.
  - 5 - PIPING DESIGNED TO CARRY THE REQUIRED QUANTITIES OF WATER AT VELOCITIES NOT TO EXCEED 10 FPS OR PER LOCAL CODES AND REGULATIONS.
  - 6 - SUPPLY LINES TO BE CHEMICALLY WELDED TO OMNIPOD FEATURE RECEIVER.
  - 7 - ALL PIPING TO BE 2" SCHEDULE 80 PVC UNLESS OTHERWISE SPECIFIED.
  - 8 - DRAWINGS ARE INTENDED FOR SCHEMATIC USE ONLY. FINAL PIPE LOCATIONS SHALL BE FIELD VERIFIED AND COORDINATED WITH CONTRACTOR.

**Rain-Drop Products, LLC**  
 2121 COTTAGE ST. ASHLAND, OHIO 44805  
 419.207.1229 WWW.RAIN-DROP.COM

PROJECT: GARDEN IN THE SUN PARK  
 ARVIN, CA 93203

SIZE	PROJECT #	DWG NO	REV
B	17531	17531-2014-ICA-ARVIN-GARDEN IN THE SUN PARK SPGD-23A	1

DRAWN: FSplalek 1/28/2014 SHEET 4 OF 12

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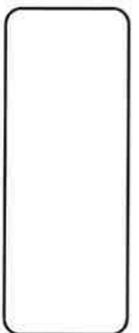
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PROJECT NO.	27/0015
PROJECT NAME	PROJECT GARDEN IN THE SUN PARK
DATE	
BY	



APPROVED BY: *Michael A. Bacenas*  
 MICHAEL A. BACENAS  
 CITY ENGINEER

DATE: 6/7/00

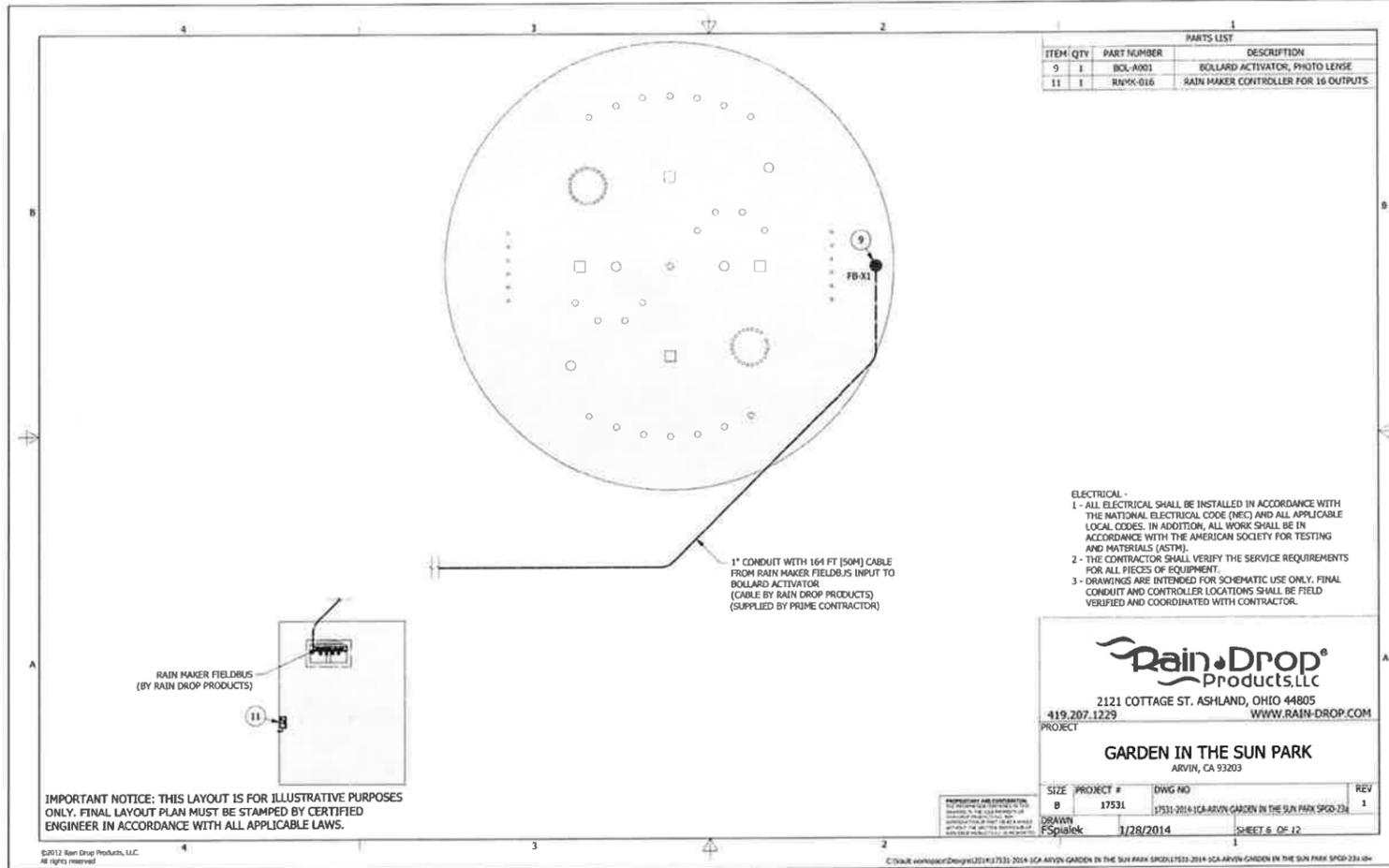
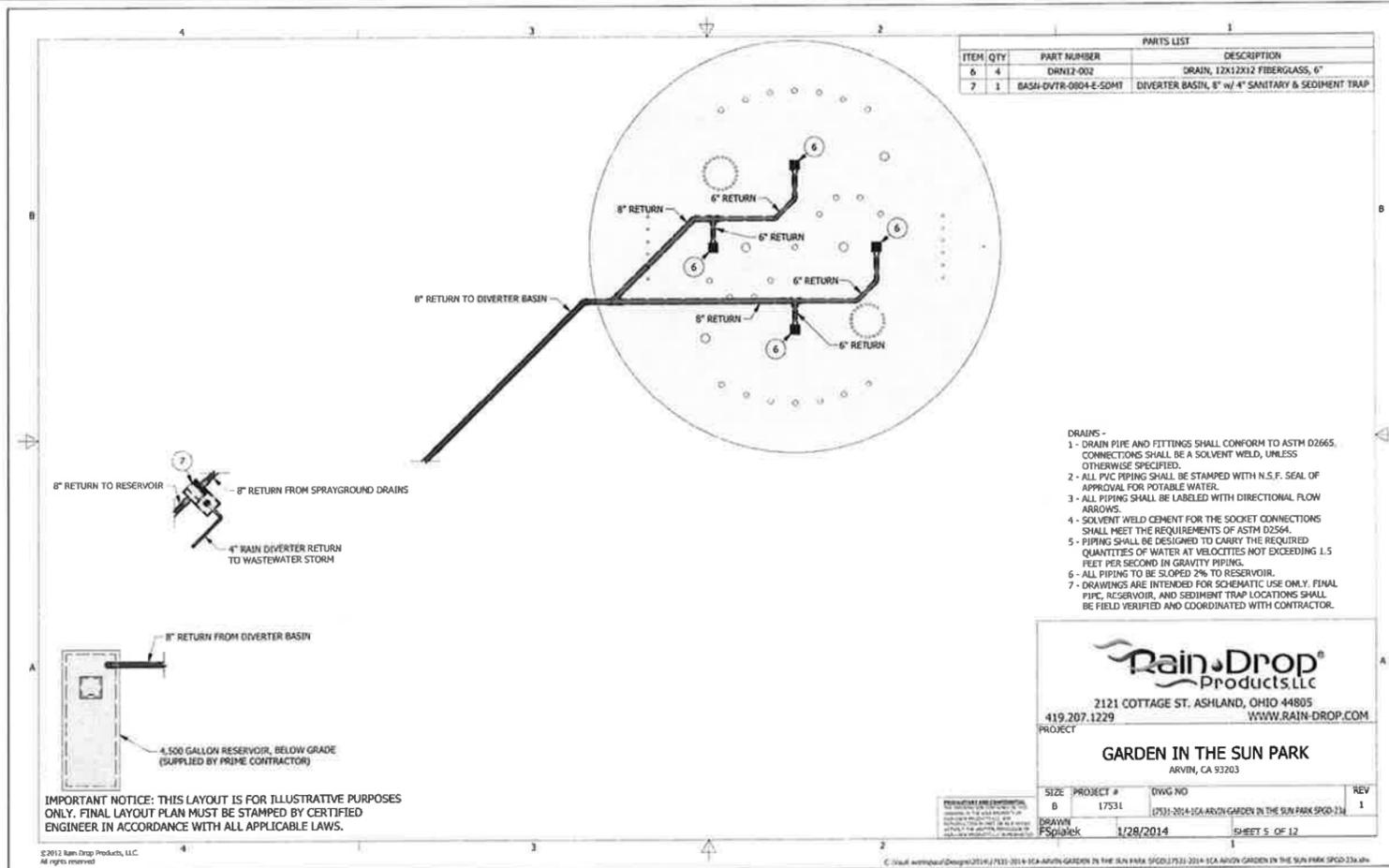


PREPARED BY: **Quad Knopf**  
 5800 CALIFORNIA AVE  
 SUITE 200  
 WESTFELDT, CA 93286  
 TEL: (562) 516-3000  
 FAX: (562) 516-3010  
 WWW.QUADKNOPF.COM

APPROVED FOR: **CITY OF ARVIN**  
 200 CAMPUS DRIVE  
 ARVIN, CA 93203  
 (562) 824-2134

**GARDEN IN THE SUN PARK  
 SPRAY PARK DETAILS**

PLST DATE	6/1/2015
DWG NO	A150165
FILE NAME	A150165_C803
SCALE	AS SHOWN
SHEET NO.	C 803



REVISIONS  
 17/02/13 CR PROJECT UPDATE PER DWG#1 10/2/13

DATE: 07/01/2015  
 TIME: 10:00 AM  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]

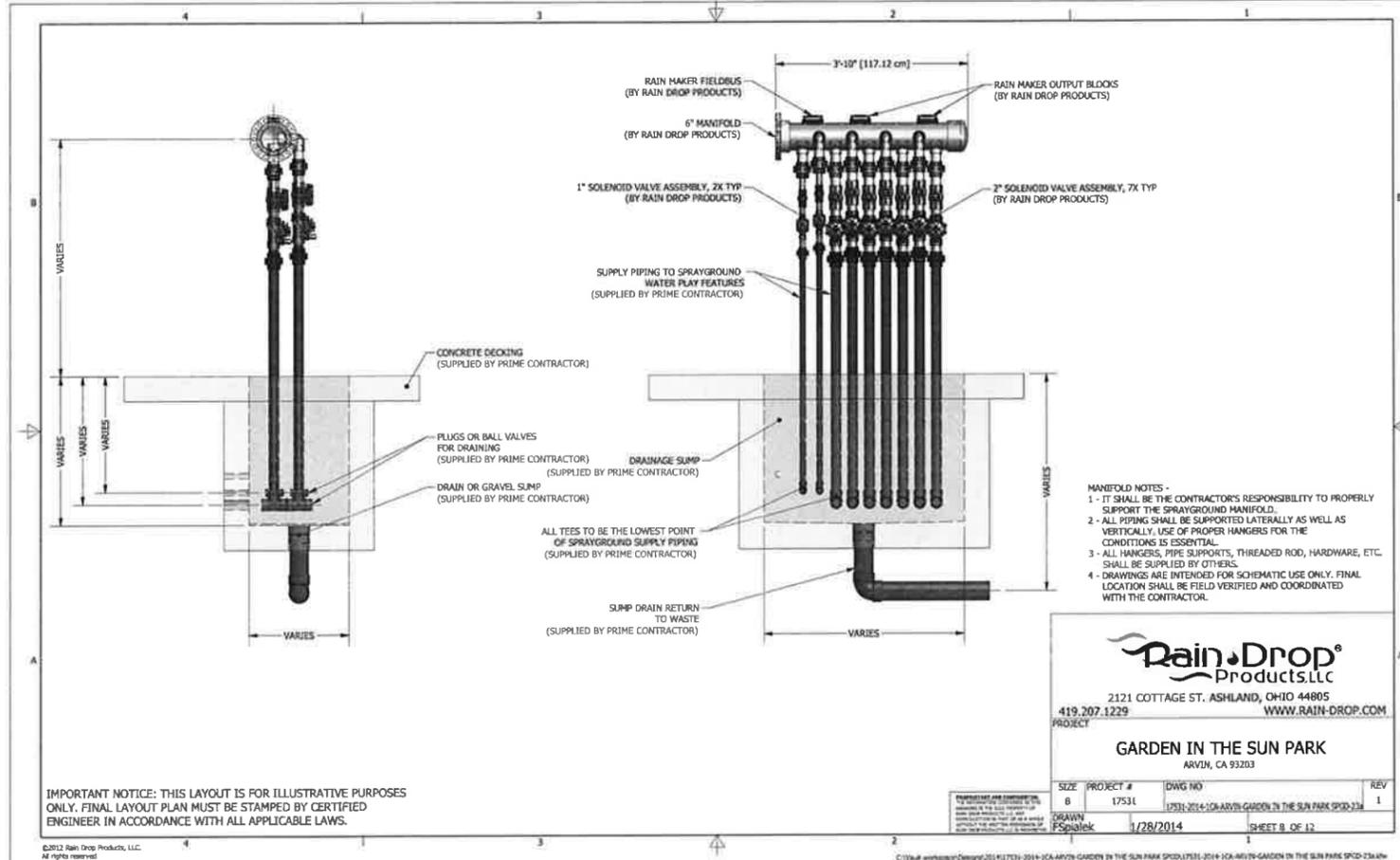
APPROVED BY: [Signature]  
 DATE: 6/7/15  
 MICHAEL K. BAEANS  
 CITY ENGINEER

QUAD KNOFF  
 1000 CALIFORNIA AVE  
 SUITE 200  
 BAKERSFIELD, CA 93311  
 TEL: (805) 834-2800  
 FAX: (805) 834-3134  
 WWW.QUADKNOFF.COM

CITY OF ARVIN  
 1000 CALIFORNIA AVE  
 SUITE 200  
 BAKERSFIELD, CA 93311  
 TEL: (805) 834-2800  
 FAX: (805) 834-3134  
 WWW.QUADKNOFF.COM

**GARDEN IN THE SUN PARK**  
**SPRAY PARK DETAILS**

PLOT DATE: JULY 1, 2015  
 JOB NO: A150185  
 FILE NAME: A150185\_C004  
 SCALE: AS SHOWN  
 SHEET NO: C 004



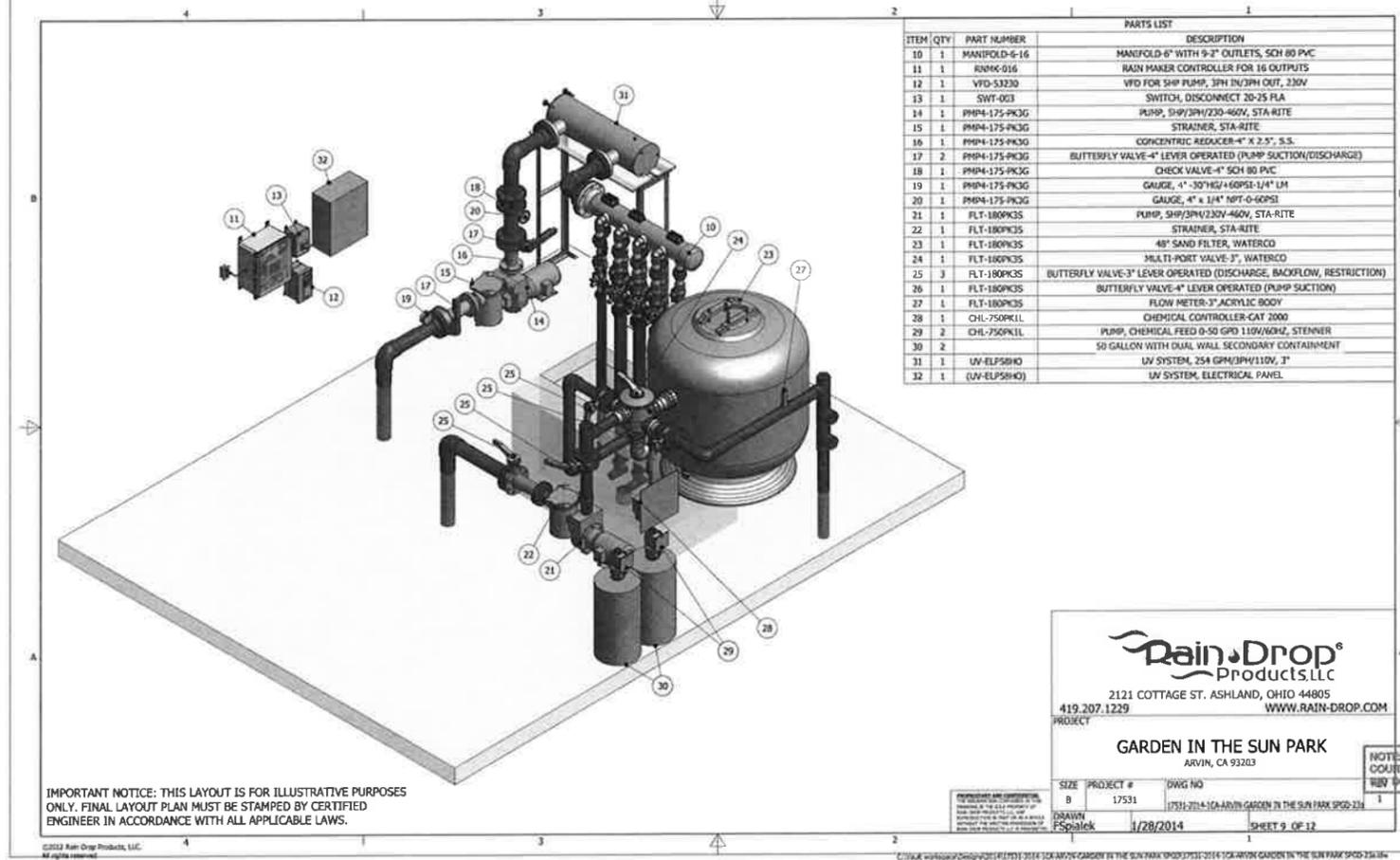
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SIZE	PROJECT #	DWG NO	REV
B	17531	17531-2014-08-ARVIN GARDEN IN THE SUN PARK SPD-234	1
DRAWN			
PSpalek	1/28/2014	SHEET 8 OF 12	

**Rain Drop Products, LLC**  
 2121 COTTAGE ST. ASHLAND, OHIO 44805  
 419.207.1229 WWW.RAIN-DROP.COM  
**GARDEN IN THE SUN PARK**  
 ARVIN, CA 93203

- MANIFOLD NOTES -
- 1 - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY SUPPORT THE SPRAYGROUND MANIFOLD.
  - 2 - ALL PIPING SHALL BE SUPPORTED LATERALLY AS WELL AS VERTICALLY. USE OF PROPER HANGERS FOR THE CONDITIONS IS ESSENTIAL.
  - 3 - ALL HANGERS, PIPE SUPPORTS, THREADED ROD, HARDWARE, ETC. SHALL BE SUPPLIED BY OTHERS.
  - 4 - DRAWINGS ARE INTENDED FOR SCHEMATIC USE ONLY. FINAL LOCATION SHALL BE FIELD VERIFIED AND COORDINATED WITH THE CONTRACTOR.



IMPORTANT NOTICE: THIS LAYOUT IS FOR ILLUSTRATIVE PURPOSES ONLY. FINAL LAYOUT PLAN MUST BE STAMPED BY CERTIFIED ENGINEER IN ACCORDANCE WITH ALL APPLICABLE LAWS.

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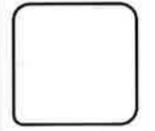
ITEM	QTY	PART NUMBER	DESCRIPTION
10	1	MANIFOLD-6-16	MANIFOLD 6" WITH 9-2" OUTLETS, SCH 80 PVC
11	1	RNM6-016	RAIN MAKER CONTROLLER FOR 16 OUTPUTS
12	1	VFD-53230	VFD FOR SHP PUMP, 3PH IN/3PH OUT, 230V
13	1	SWT-003	SWITCH, DISCONNECT 20-25 FLA
14	1	PPM4-175-PCG	PUMP, 5HP/3PH/230-460V, STA-RITE
15	1	PPM4-175-PCG	STRAINER, STA-RITE
16	1	PPM4-175-PCG	CONCENTRIC REDUCER-4" X 2.5", S.S.
17	2	PPM4-175-PCG	BUTTERFLY VALVE-4" LEVER OPERATED (PUMP SUCTION/DISCHARGE)
18	1	PPM4-175-PCG	CHECK VALVE-4" SCH 80 PVC
19	1	PPM4-175-PCG	GAUGE, 1" 30" Hg + HOPEL-1/4" LH
20	1	PPM4-175-PCG	GAUGE, 1/2" 1/4" NPT-0-60PSI
21	1	FLT-180PK3S	PUMP, 5HP/3PH/230V-460V, STA-RITE
22	1	FLT-180PK3S	STRAINER, STA-RITE
23	1	FLT-180PK3S	48" SAND FILTER, WATERCO
24	1	FLT-180PK3S	MULTI-PORT VALVE-3", WATERCO
25	3	FLT-180PK3S	BUTTERFLY VALVE-3" LEVER OPERATED (DISCHARGE, BACKFLOW, RESTRICTION)
26	1	FLT-180PK3S	BUTTERFLY VALVE-4" LEVER OPERATED (PUMP SUCTION)
27	1	FLT-180PK3S	FLOW METER-3" ACRYLIC BODY
28	1	CHL-750PK1L	CHEMICAL CONTROLLER-CAT 2000
29	2	CHL-750PK1L	PUMP, CHEMICAL FEED 0-50 GPD 110V/60HZ, STENNER
30	2		50 GALLON WITH DUAL WALL SECONDARY CONTAINMENT
31	1	UV-ELP58H0	UV SYSTEM, 254 GPM/3PH/110V, 3"
32	1	(UV-ELP58H0)	UV SYSTEM, ELECTRICAL PANEL

**Rain Drop Products, LLC**  
 2121 COTTAGE ST. ASHLAND, OHIO 44805  
 419.207.1229 WWW.RAIN-DROP.COM  
**GARDEN IN THE SUN PARK**  
 ARVIN, CA 93203

NOTE: COURTESY COPY FOR REVIEW OF BID DOCUMENTS. BID DOCUMENTS AVAILABLE AT CITY HALL.

SIZE	PROJECT #	DWG NO	REV
B	17531	17531-2014-08-ARVIN GARDEN IN THE SUN PARK SPD-234	1
DRAWN			
PSpalek	1/28/2014	SHEET 9 OF 12	

REV	DATE	DESCRIPTION



APPROVED BY:  
 Daniel A. Baccenas  
 Daniel A. Baccenas  
 Civil Engineer  
 67720

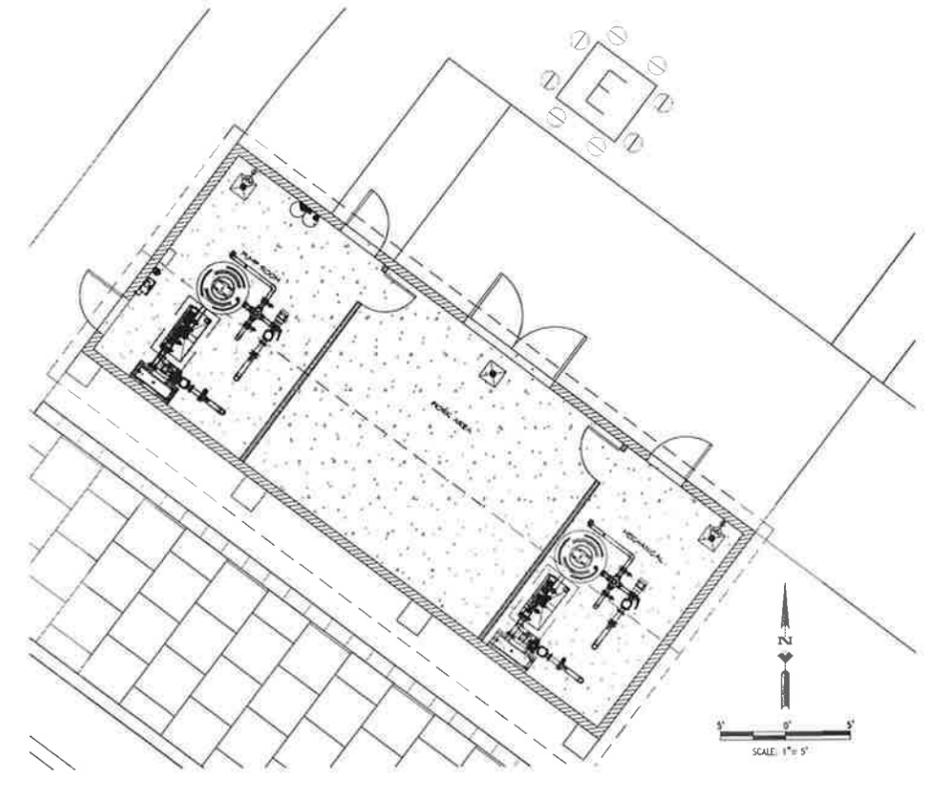
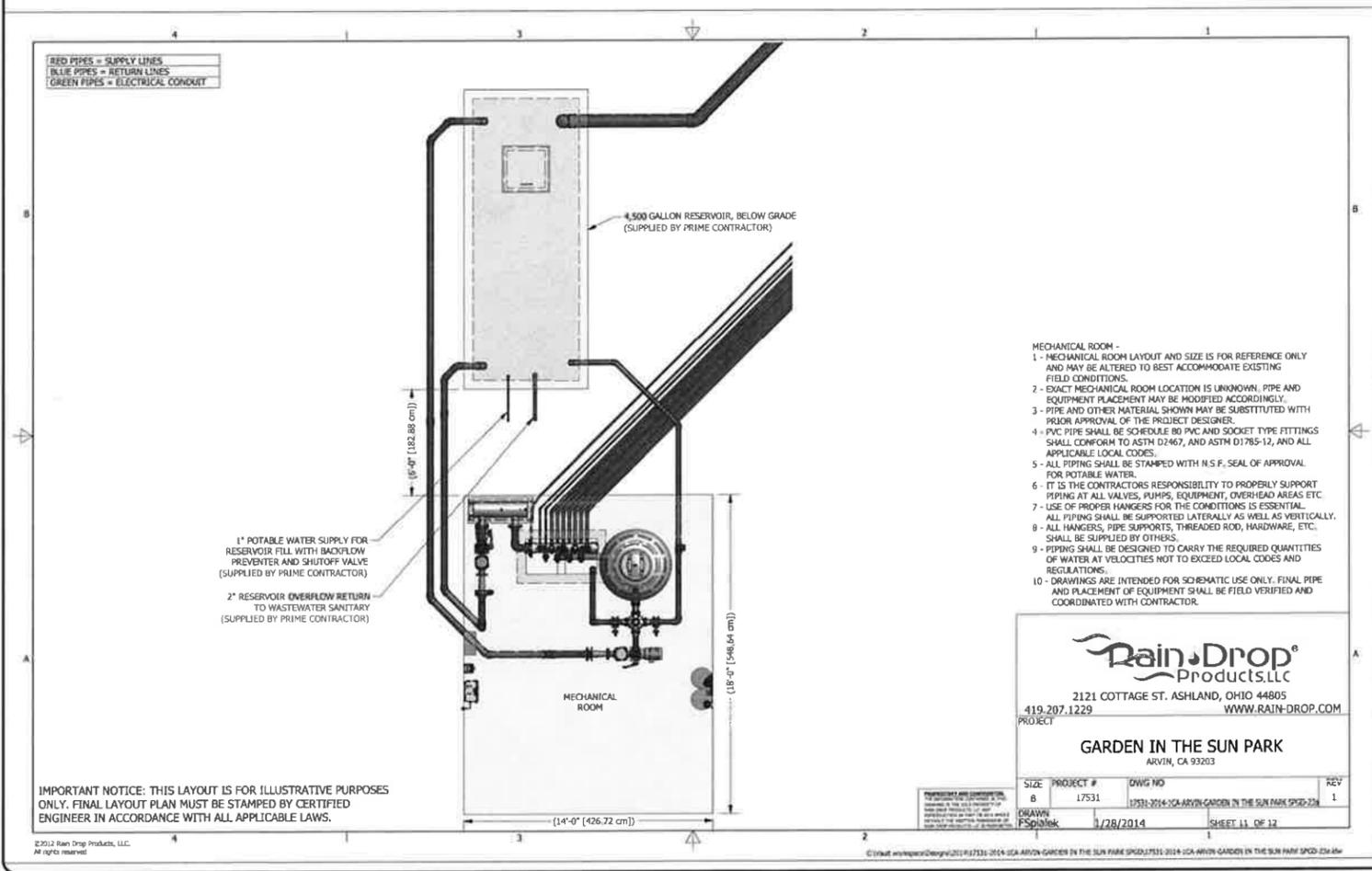
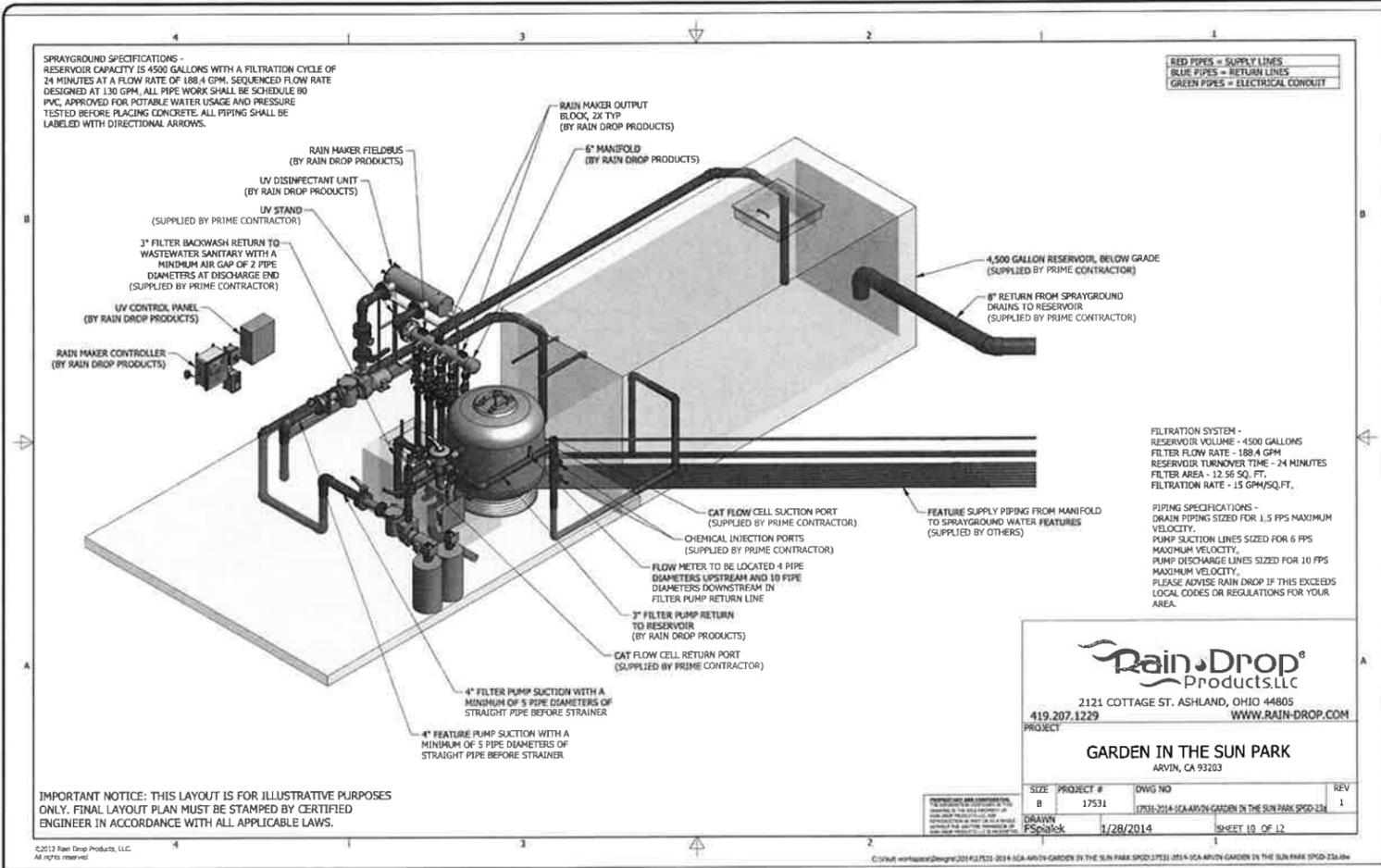
PROJECT # 17531  
 SHEET 8 OF 12

PROJECT # 17531  
 SHEET 8 OF 12

PROVIDED BY:  
**Quad Knopf**  
 1500 CALIFORNIA AVE  
 SUITE 210  
 SAN JOSE, CA 95128  
 TEL: (415) 616-2800  
 FAX: (415) 616-3370  
 WWW.QUADKNOPF.COM

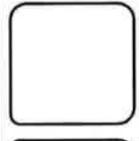
PROJECT # 17531  
**CITY OF ARVIN**  
 200 CAMPUS DRIVE  
 ARVIN, CA 93203  
 (805) 834-3134  
**GARDEN IN THE SUN PARK**  
**SPRAY PARK DETAILS**

PLT DATE	DATE 1, 2015
JOB NO.	A150153
FILE NAME	A150153_E005
SCALE	AS SHOWN
SHEET NO.	C 605



**NOTE:**  
 COURTESY COPY FOR REVIEW OF BID DOCUMENTS.  
 BID DOCUMENTS AVAILABLE AT CITY HALL.

DATE	BY	REV
1/27/2015	DK	PROJECT APPROVAL FOR OWNER'S REVIEW



APPROVED BY: *David Green*  
 DATE: 6/7/10  
 DAVID GREEN  
 CITY ENGINEER

APPROVED BY: *[Signature]*  
 DATE: 6/7/10  
 DAVID GREEN  
 CITY ENGINEER

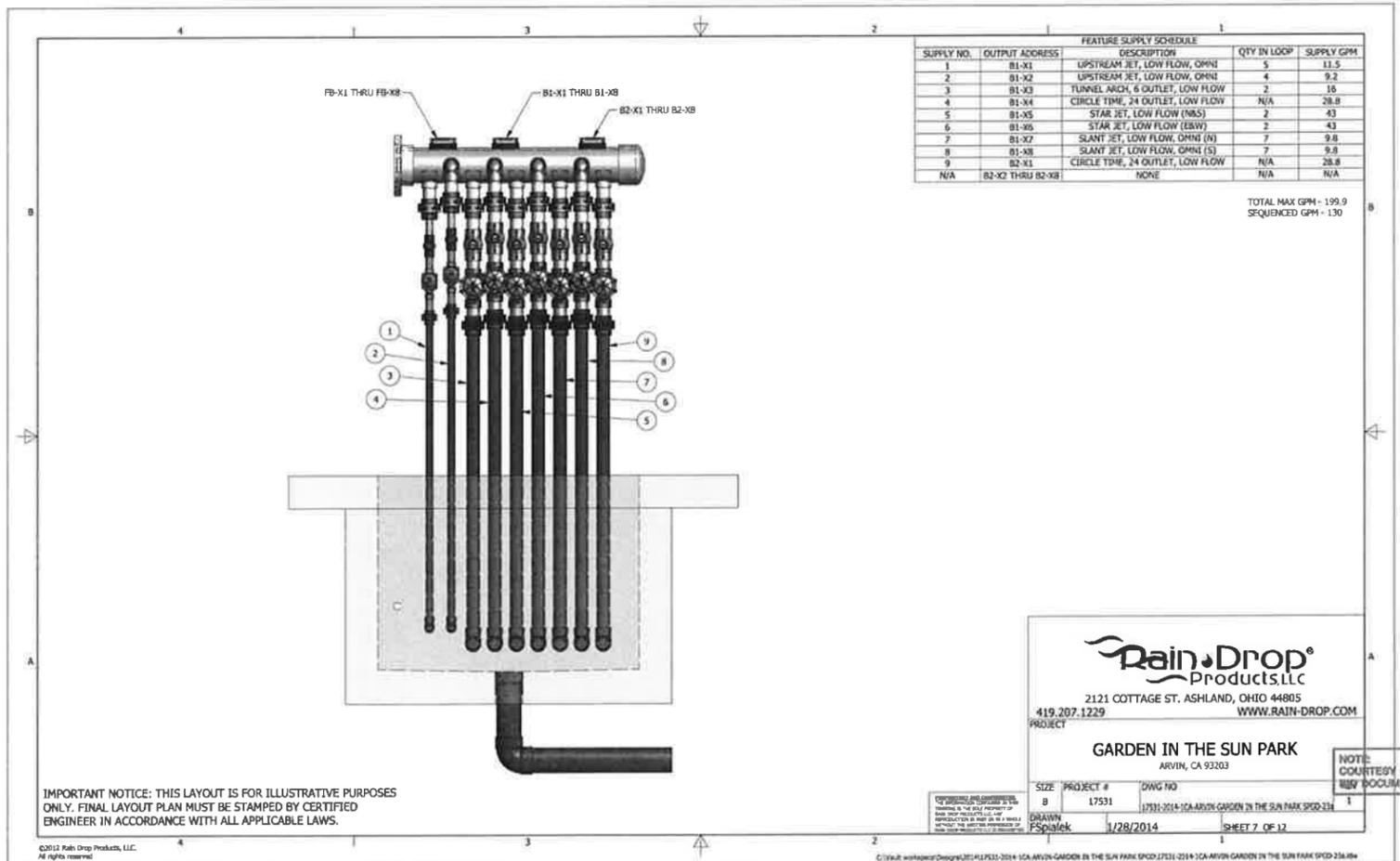
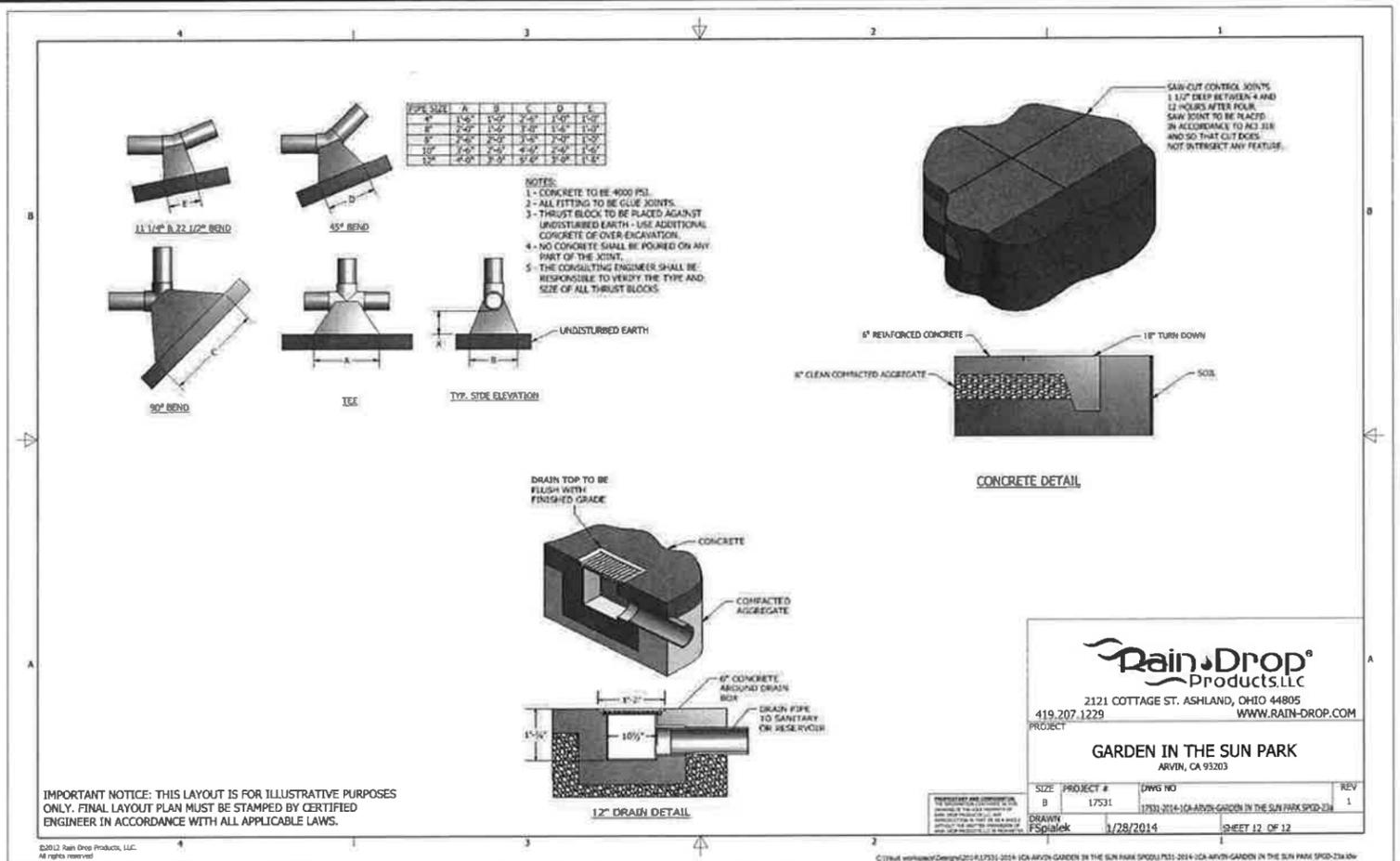
APPROVED BY: *[Signature]*  
 DATE: 6/7/10  
 DAVID GREEN  
 CITY ENGINEER

APPROVED BY: *[Signature]*  
 DATE: 6/7/10  
 DAVID GREEN  
 CITY ENGINEER

APPROVED BY: *[Signature]*  
 DATE: 6/7/10  
 DAVID GREEN  
 CITY ENGINEER

PLANT DATE	MAY 1, 2015
JOB NO	A150185
FILE NAME	A150185_0006
SCALE	AS SHOWN
SHEET NO	C 006

Watermark



NO.	DATE	BY	REVISION



APPROVED BY: *[Signature]*  
 DATE: 6/7/15  
 CITY ENGINEER

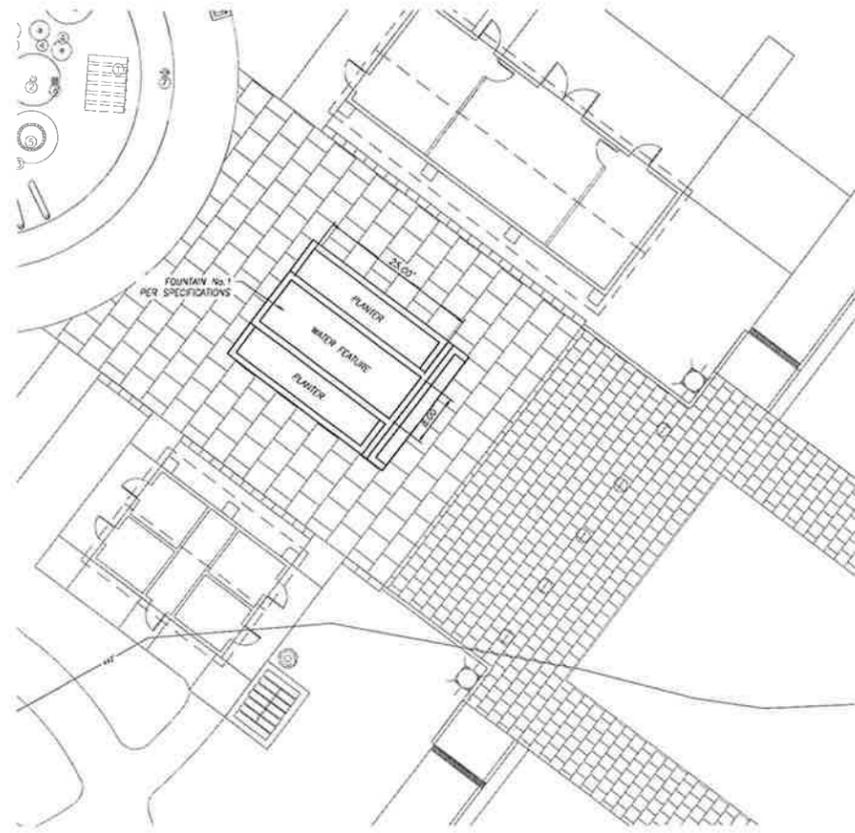


**Quad Knopf**  
 200 Campus Drive  
 Arvin, CA 93203  
 (811) 504-3124

**CITY OF ARVIN**  
 200 Campus Drive  
 Arvin, CA 93203  
 (811) 504-3124

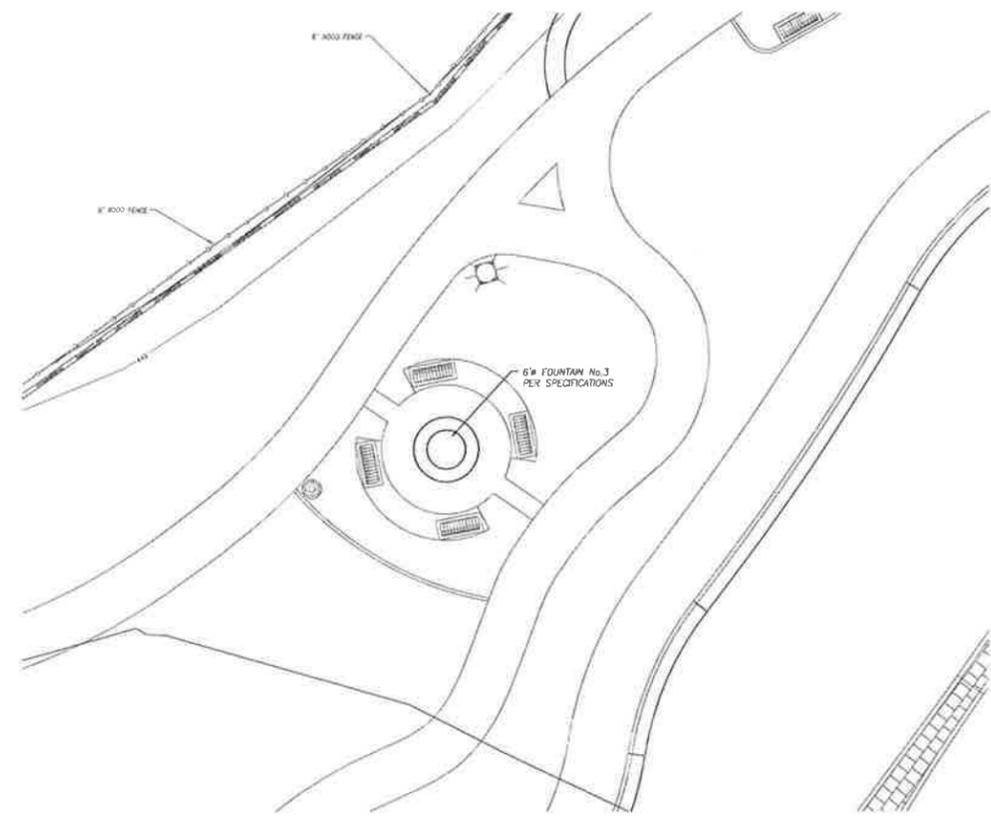
**GARDEN IN THE SUN PARK**  
**SPRAY PARK DETAILS**

PLT DATE	JOB NO	FILE NAME	SCALE	SHEET NO
MAY 1, 2015	A150185	A130165-6007	AS SHOWN	C 007



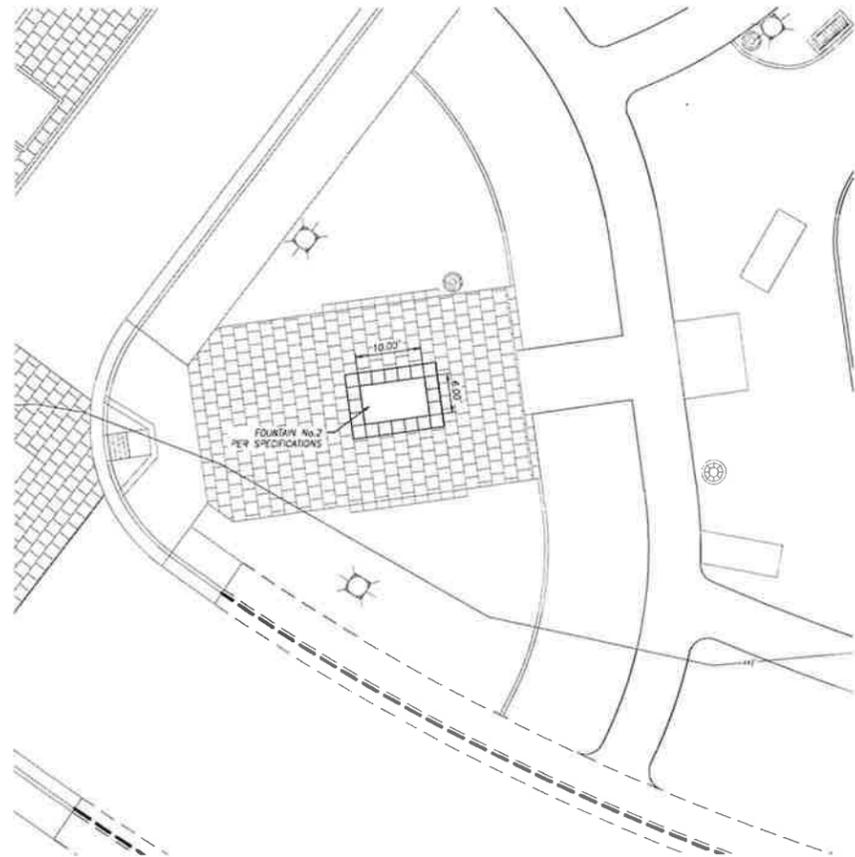
1) ENTRY PLAZA

SCALE: 1" = 10'



3) NORTH GARDEN

SCALE: 1" = 10'

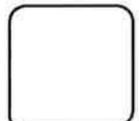


2) PLAZA EXTENSION

SCALE: 1" = 10'

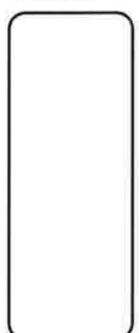
NOTE:  
COURTESY COPY FOR REVIEW OF BID DOCUMENTS.  
BID DOCUMENTS AVAILABLE AT CITY HALL.

DATE	BY	DESCRIPTION
12/22/2015	OK	PROJECT UPDATE FOR OWNER'S RECORD



APPROVED BY:  
*Robert A. Bacenas*  
ROBERT A. BACENAS  
CITY ENGINEER

DATE: 6/7/2015



PREPARED BY:

**Quad Knopf**  
A CORPORATION OF CALIFORNIA

1505 CALIFORNIA AVE.  
SUITE 200  
DANFORTH, CA 94539  
TEL: (925) 948-8000  
(925) 948-8001  
WWW.QUADKNOPF.COM

CHECKED BY:

APPROVED BY:

CITY OF ARVIN  
200 S. CALIFORNIA BLVD  
ARVIN, CA 93203  
(805) 834-3134

GARDEN IN THE SUN PARK  
A150185 C608 - C 601

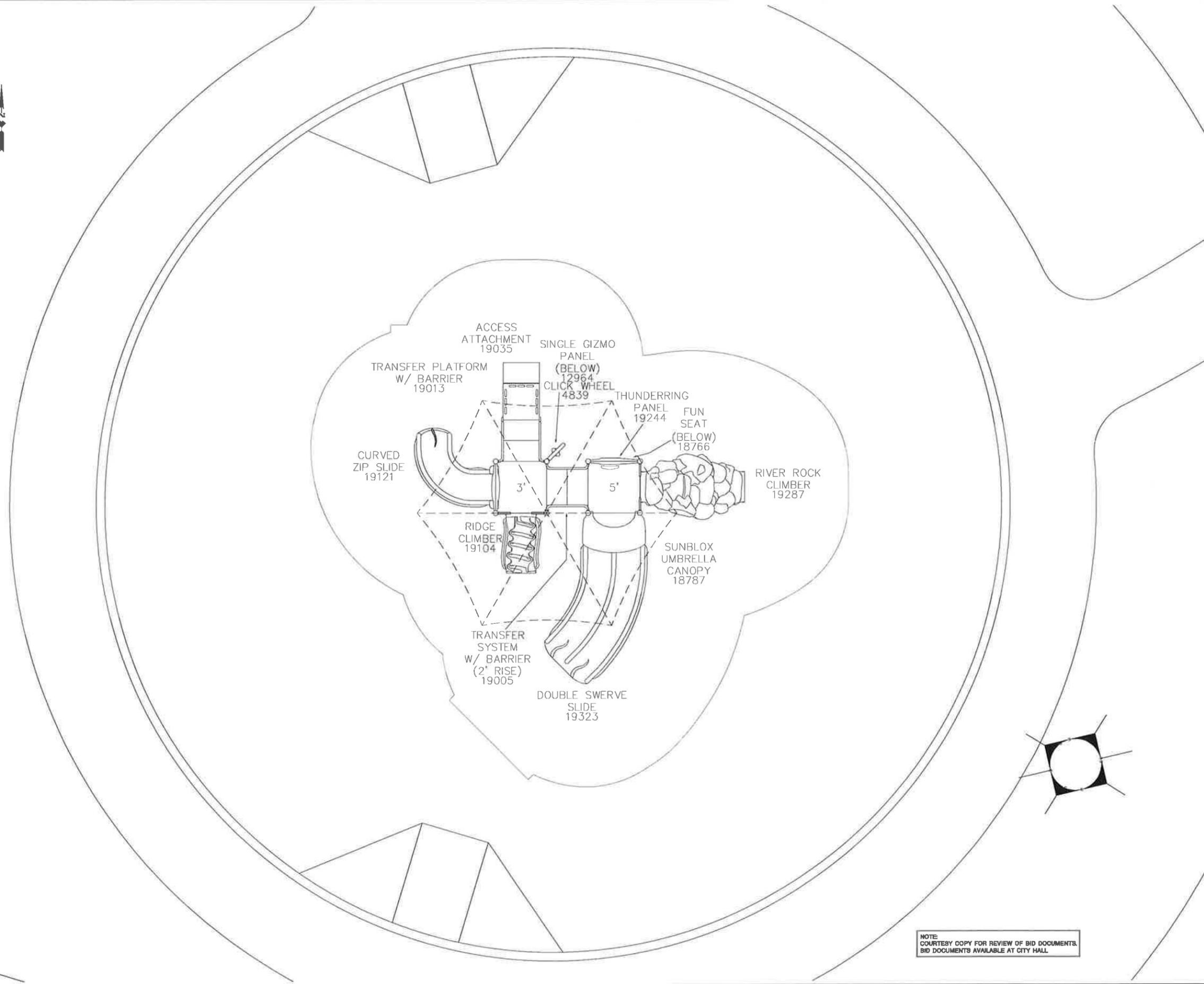
DATE: JULY 1, 2015

JOB NO: A150185

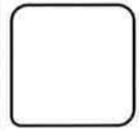
FILE NAME: A150185 C608

SCALE: AS SHOWN

SHEET NO: C 608



NO.	DATE	DESCRIPTION
1	7/1/2015	PROJECT LAYOUT FOR BIDDING PURPOSES



APPROVED BY: *[Signature]*  
 DATE: 6/7/15  
 ROBERT A. BERGENS  
 CITY ENGINEER



PREPARED BY:  
  
**Quad Knopf**  
 A Division of Wood Group, Inc.  
 1500 CALIFORNIA AVE.  
 SAN JOSE, CA 95128  
 TEL: (408) 948-1000  
 FAX: (408) 948-1001  
 WWW.QUADKNOPF.COM

APPROVED FOR THE CITY OF ARVIN  
 CITY OF ARVIN  
 100 W. MAIN ST.  
 ARVIN, CA 93203  
 (805) 834-3134

GARDEN IN THE SUN PARK  
 TOT LOT DETAILS

DATE: JULY 1, 2015  
 JOB NO: A150185  
 FILE NAME: A150185 C509  
 SCALE: AS SHOWN  
 SHEET NO: C 609

NOTE:  
 COURTESY COPY FOR REVIEW OF BID DOCUMENTS.  
 BID DOCUMENTS AVAILABLE AT CITY HALL.





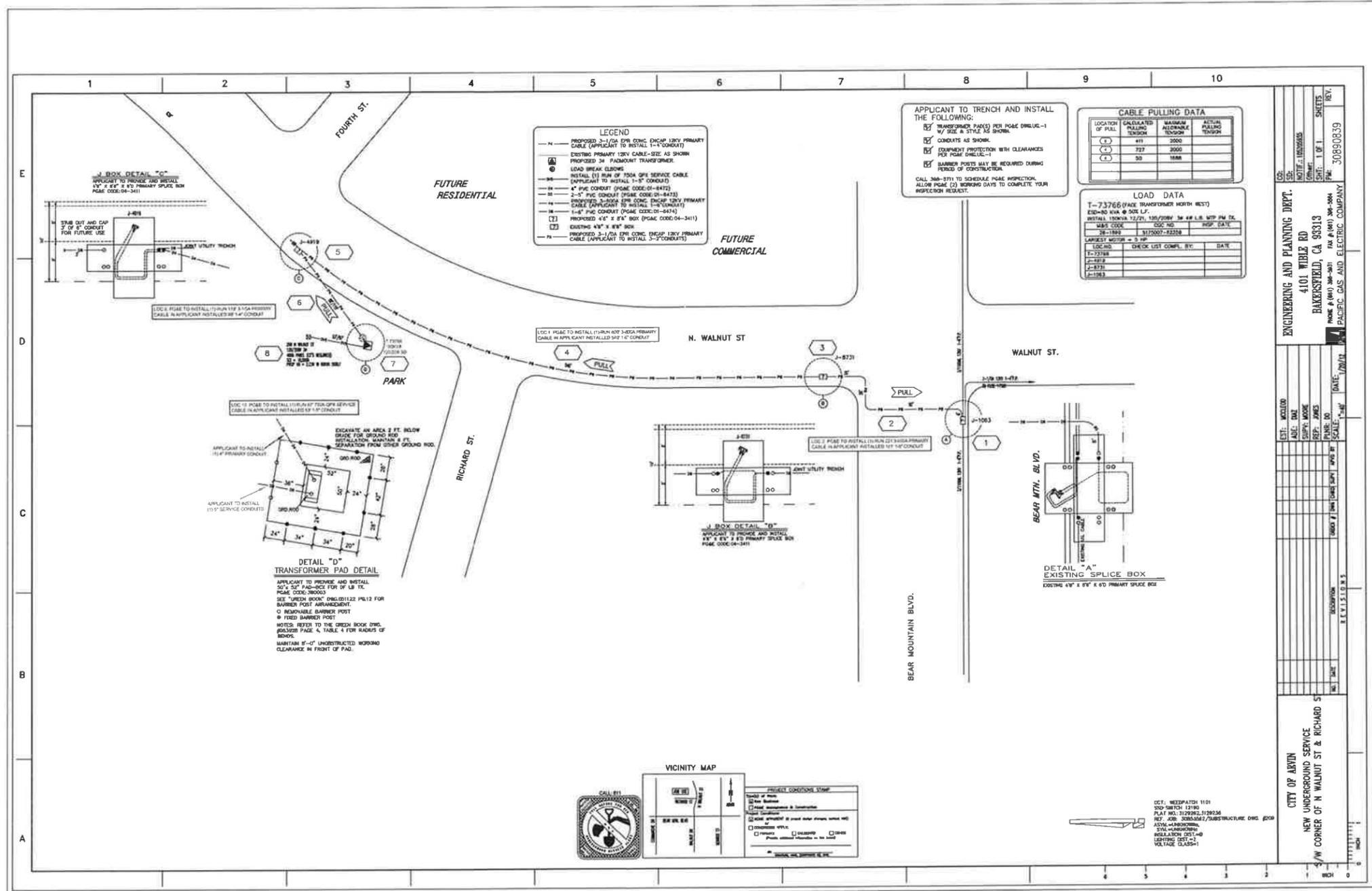








NOT TO SCALE



ENGINEERING AND PLANNING DEPT.  
4101 WIBLE RD  
BAKERSFIELD, CA 93313  
PHONE: (805) 386-3631 FAX: (805) 386-3688  
PACIFIC GAS AND ELECTRIC COMPANY

DATE: 12/15/10

CITY OF ARVIN  
NEW UNDERGROUND SERVICE  
S/W CORNER OF N WALNUT ST & RICHARD ST

REVISIONS

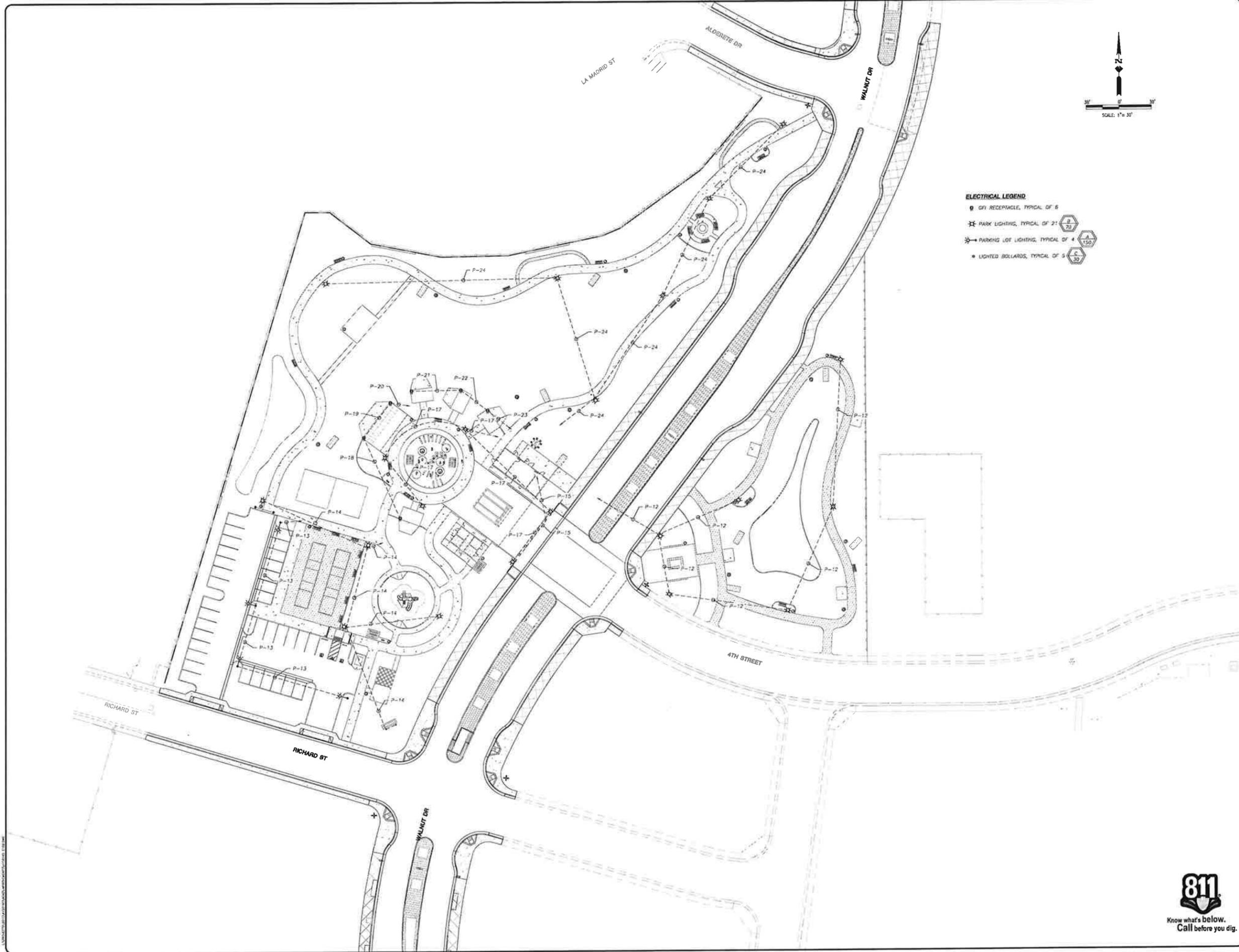
NO.	DATE	DESCRIPTION
1	12/15/10	PROJECT UPDATE PER SHEET REQUEST

APPROVED BY: *[Signature]*  
DALE: 8/17/00  
CITY ENGINEER

QUAD KNOTP  
1000 CALIFORNIA AVE  
BAKERSFIELD, CA 93307  
PHONE: (805) 834-3134  
WWW.QUADKNOTP.COM

PROJECT PLAN FOR:  
CITY OF ARVIN  
NEW UNDERGROUND SERVICE  
S/W CORNER OF N WALNUT ST & RICHARD ST  
ELECTRICAL PLAN

PROJ DATE: JULY 1, 2015  
JOB NO.: A150185  
FILE NO.: A150185 E100  
SCALE: AS SHOWN  
SHEET NO.: E 101



**ELECTRICAL LEGEND**

- GFI RECEPTACLE, TYPICAL OF 6
- ⊗ PARK LIGHTING, TYPICAL OF 21
- ⊗ PARKING LOT LIGHTING, TYPICAL OF 4
- LIGHTED BOLLARDS, TYPICAL OF 5



NO.	DATE	DESCRIPTION



APPROVED BY: *F. J. Macenas*  
 DATE: 8/7/2015  
 F. J. MACENAS  
 CITY ENGINEER

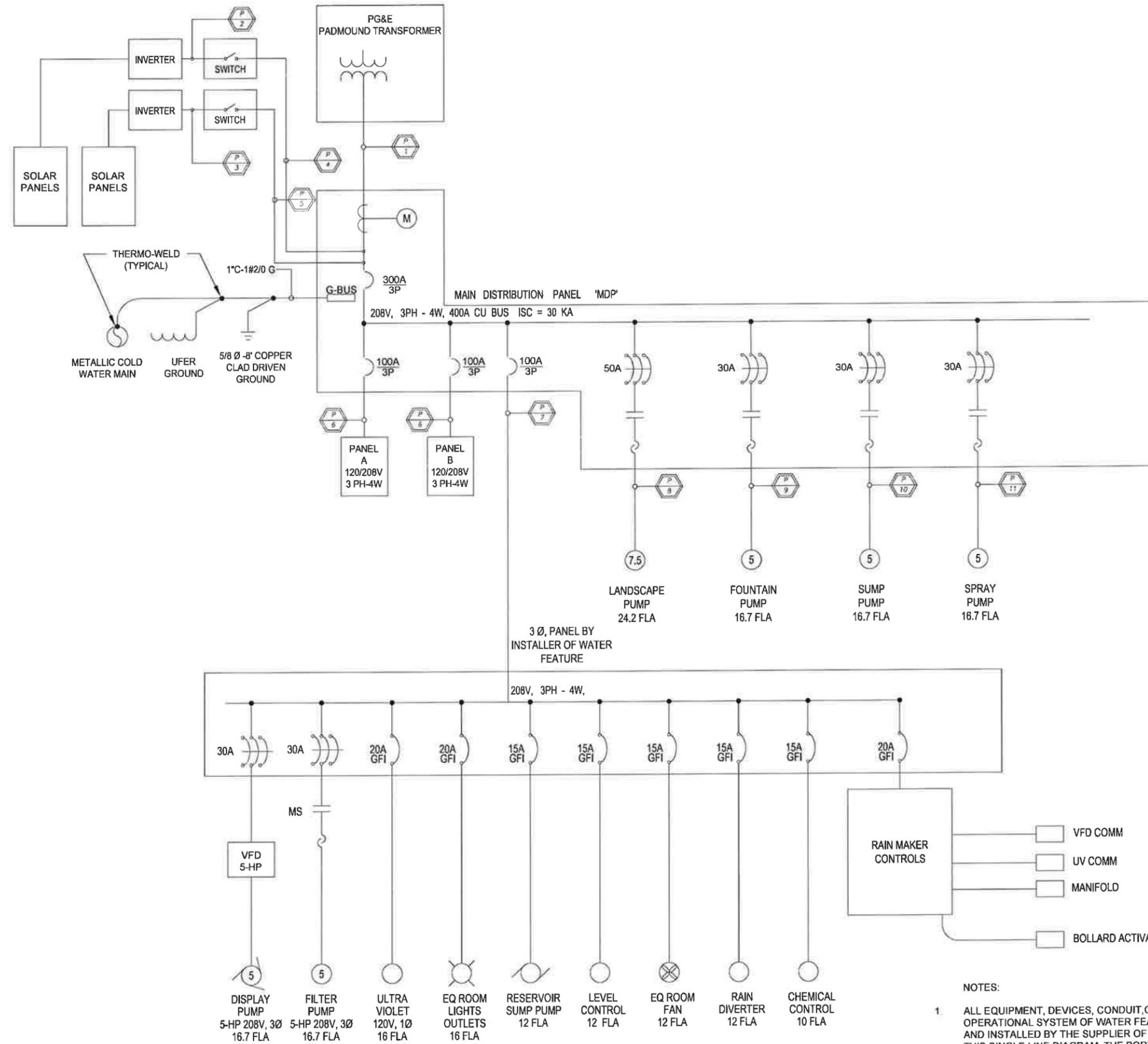
**Holakoues & Associates, Inc.**  
 FARRAD HOLAKOUE, P.E.  
 2025 N. CONCORD AVENUE, SUITE 100  
 RIVERSIDE, CA 92503

DESIGNED BY: **Quad Knopf**  
 500 CALIFORNIA AVE  
 ANAHEIM, CA 92805  
 TEL: (951) 836-2000  
 FAX: (951) 836-2000  
 WWW.QUADKNOPF.COM

APPROVED BY: **CITY OF ARVIN**  
 300 CAMDEN DRIVE  
 ARVIN, CA 93203  
 (817) 834-3134

**GARDEN IN THE SUN PARK  
 ELECTRICAL PLAN**

PLOT DATE	July 8, 2015
JOB NO.	A150185
FILE NAME	A150185 E102
SCALE	AS SHOWN
SHEET NO.	E 102



ELECTRICAL SINGLE LINE DIAGRAM  
NO SCALE

NOTES:

1. ALL EQUIPMENT, DEVICES, CONDUIT, CABLES, TESTING AND OPERATIONAL SYSTEM OF WATER FEATURE SHOULD BE SPECIFIED AND INSTALLED BY THE SUPPLIER OF WATER FEATURE AS SHOWN IN THIS SINGLE LINE DIAGRAM. THE PORTION OF THE SINGLE LINE DIAGRAM RELATED TO THE WATER FEATURE IS SHOWN ONLY AS REFERENCE.
2. ALL SOLAR PANELS, THE TWO INVERTORS, THE TWO SWITCH AND WIRING PART OF ELECTRICAL SOLAR SYSTEM SHALL BE SPECIFIED AND INSTALLED BY THE SUPPLIER OF ELECTRICAL SOLAR SYSTEM, THE PORTION OF THE SINGLE LINE DIAGRAM RELATED TO THE ELECTRICAL SOLAR SYSTEM IS SHOWN ONLY AS REFERENCE.



NO. 1	DATE	DESCRIPTION

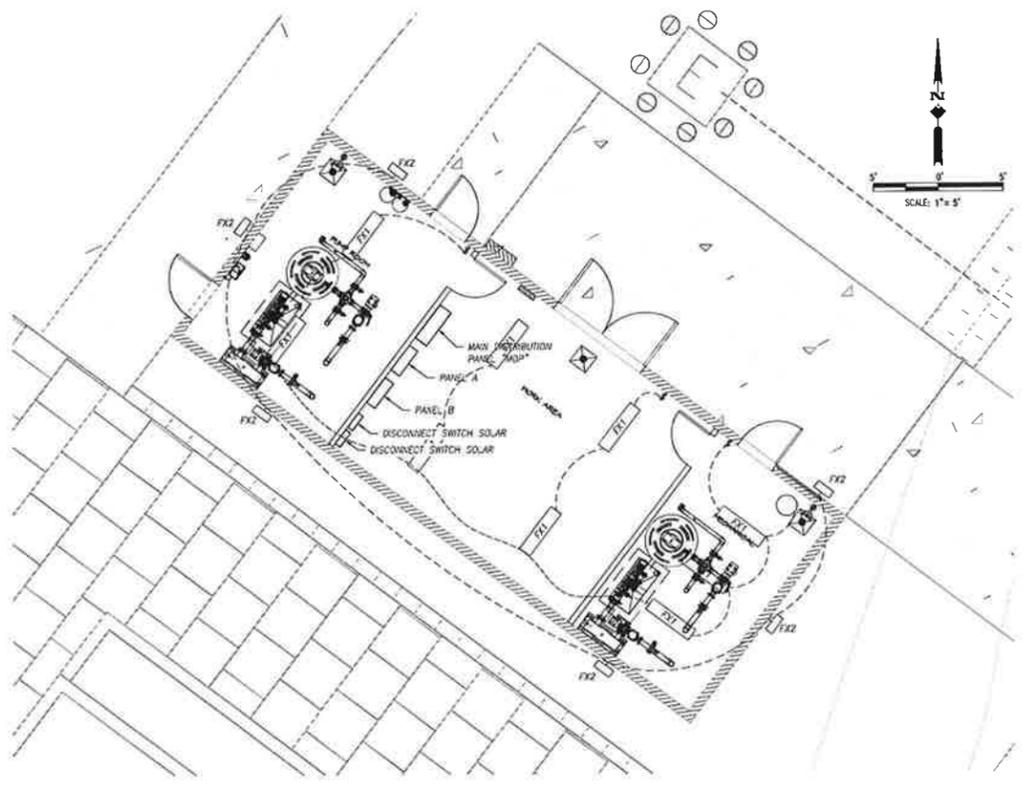


APPROVED BY: *[Signature]*  
DATE: 8/7/20  
CITY ENGINEER  
FARHAD HOLAKOUEI  
ELECTRICAL ENGINEER  
E13312

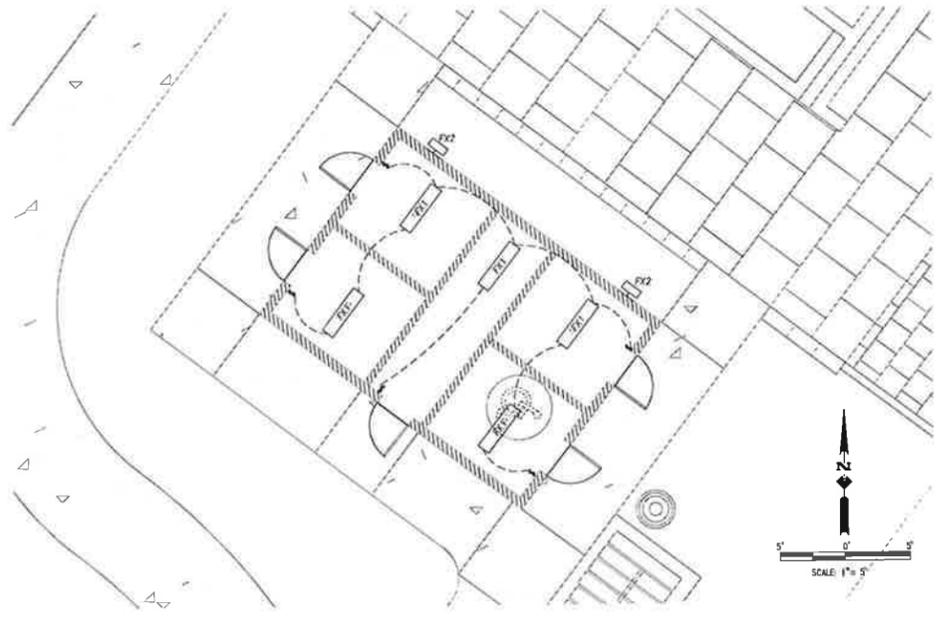


PROJECT: WATER FEATURE  
CITY OF ARVIN  
1000 CALIFORNIA AVE  
SAN JOSE, CA 95128  
(408) 854-3134  
GARDEN IN THE SUN PARK  
SIGNLE LINE DIAGRAM

PROJ. DATE	JULY 1, 2019
DWG. NO.	A150155
FILE NAME	A150155 E103
SCALE	AS SHOWN
SHEET NO.	E 103

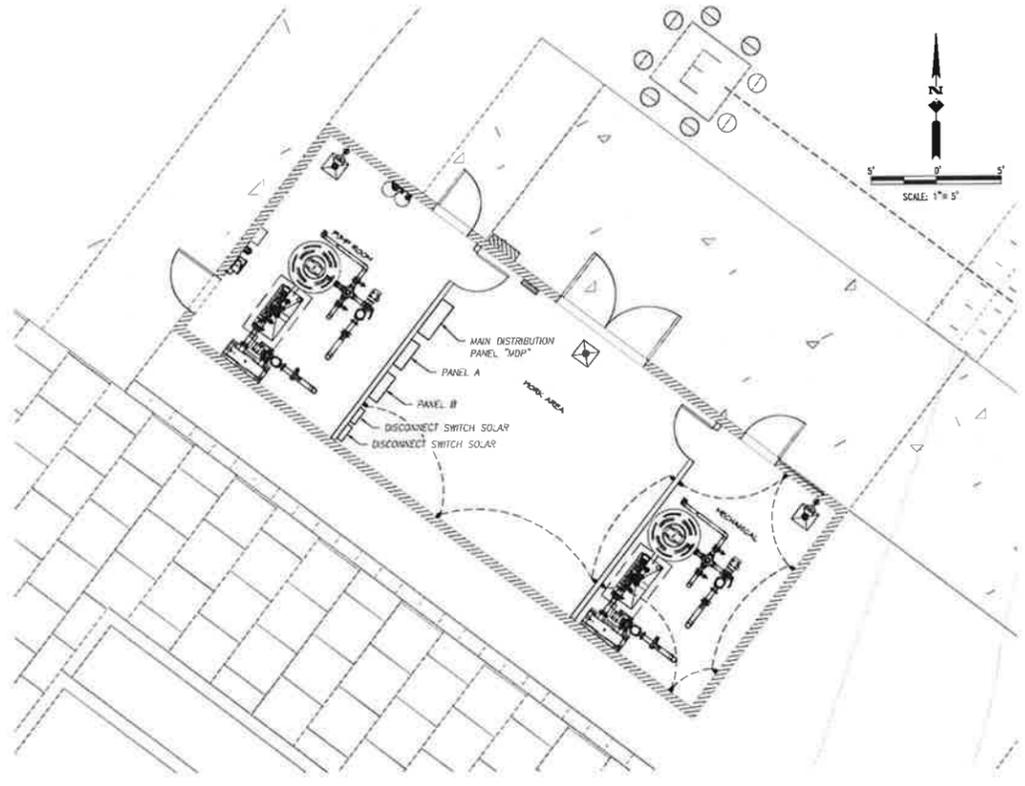


MAINTENANCE BUILDING LIGHTING PLAN

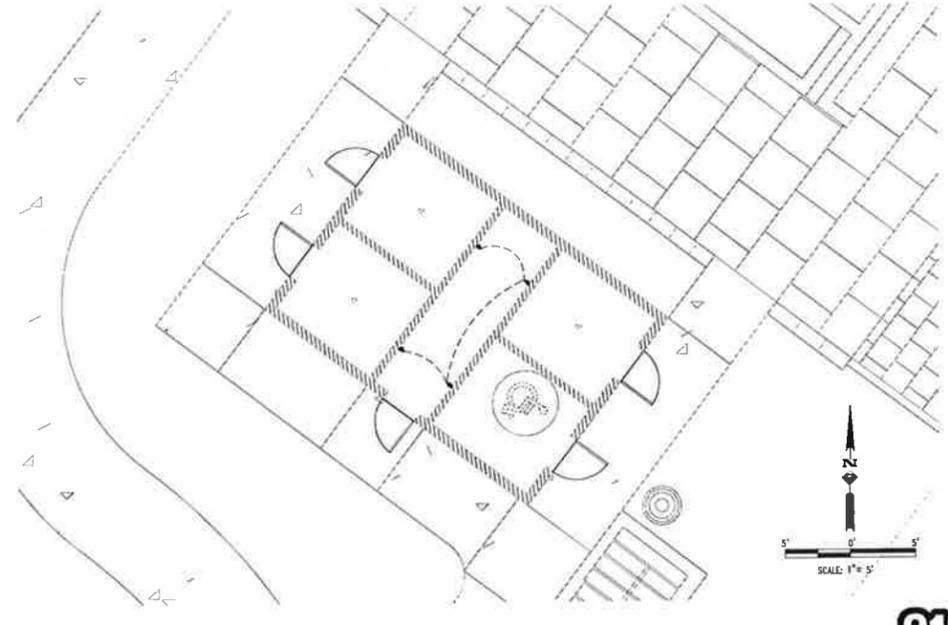


RESTROOM BUILDING LIGHTING PLAN

LIGHT FIXTURE SCHEDULE							
ALL FLUORESCENT BALLASTS TO BE ENERGY SAVING TYPES, U.O.N. CERTIFIED PER TITLE 24 SECTION 2-5315 (6)							
TYPE	WATT	LAMP	VOLT	MANUFACTURER	CATALOG NUMBER	MTG	NOTES
FX1	84	F32TB	UNV	DECO	DVS-2-32-UNV-1-EB-LP841	SURF	ROUGH SURFACE
FX2	279	250PSMH	MT	DECO	D403-250-P-MTPS-BZ-LP	WALL	OUTDOOR WALL PACK



MAINTENANCE BUILDING POWER PLAN



RESTROOM BUILDING POWER PLAN



NO.	REVISION	DATE	DESCRIPTION
1	ISSUED FOR PERMIT REQUEST	07/22/15	OK



APPROVED BY: *Fairhad Holakouei*  
 DATE: 8/7/15  
 CITY ENGINEER  
 SITE: FAIRMAD HOLAKOUEI, P.E.  
 ELECTRICAL ENGINEER  
 E13313

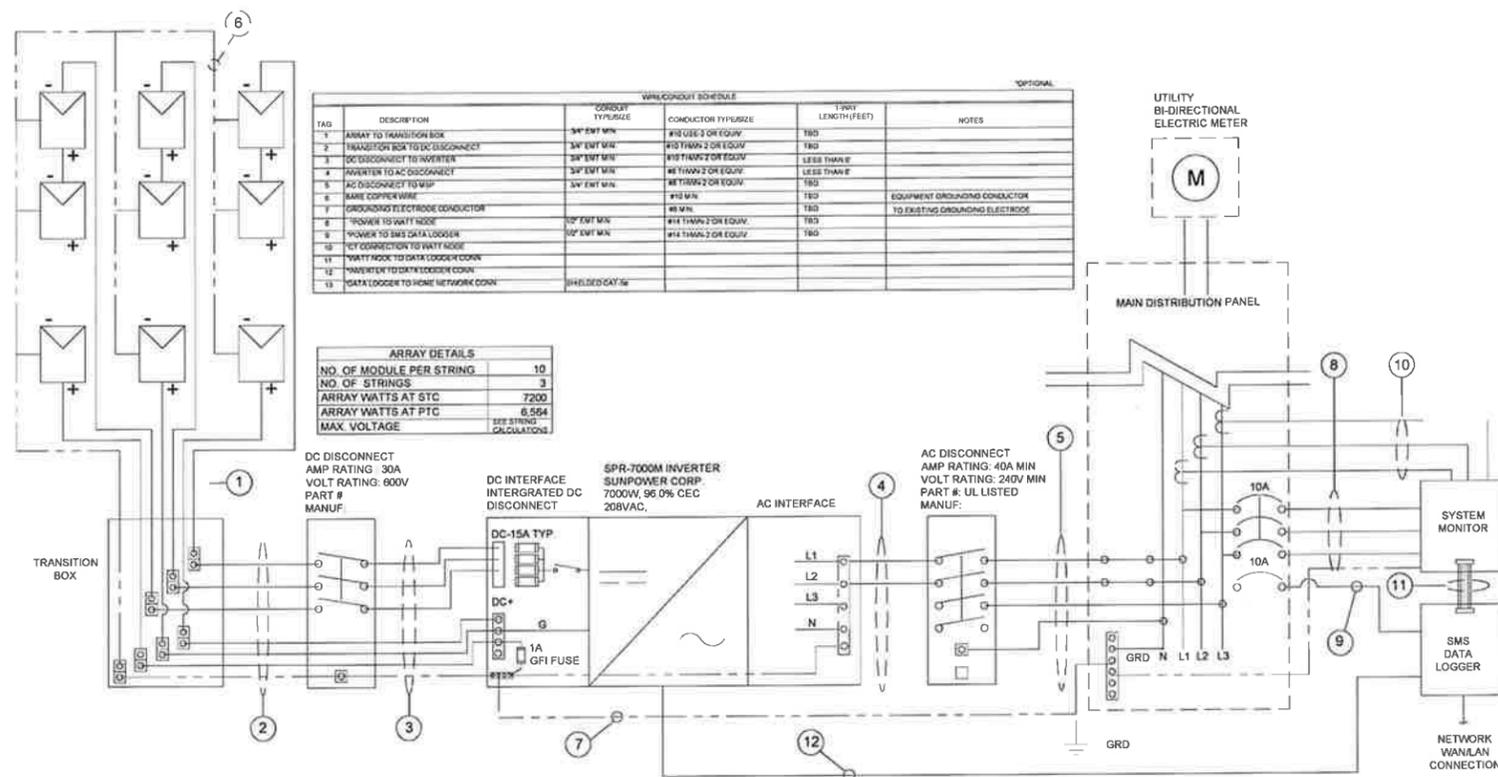


APPROVED FOR THE CITY OF ARVIN  
 200 CAMDEN DRIVE  
 ARVIN, CA 93203  
 (818) 834-3134  
 GARDEN IN THE SUN PARK  
 BUILDINGS POWER AND LIGHTING PLAN

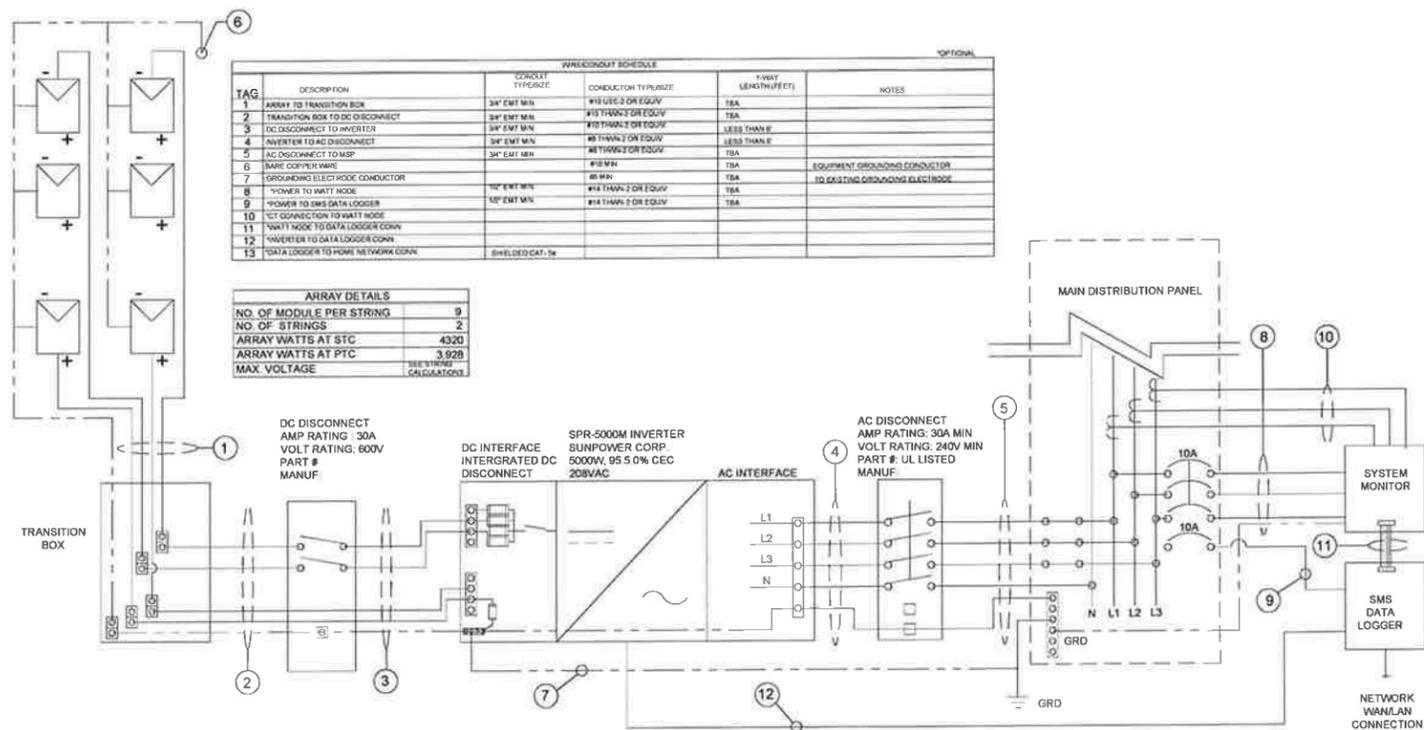
PLAT DATE	MAY 1, 2015
JOB NO.	A150185
PLC. NO.	A150185 E105
SCALE	AS SHOWN
SHEET NO.	E 104







DETAIL A - PARTY PAVILION ELECTRICAL SOLAR SYSTEM



DETAIL B - RESTROOM BUILDING ELECTRICAL SOLAR SYSTEM

GENERAL NOTES

- THE ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2010 CALIFORNIA ELECTRICAL CODE AND ALL APPLICABLE LOCAL ORDINANCES WHERE PLANS CALL FOR A HIGHER STANDARD THAN APPLICABLE CODES, THE PLANS WILL CONTROL.
- CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT FIELD CONDITIONS.
- ALL ELECTRICAL EQUIPMENT SHALL BE LISTED BY A RECOGNIZED TEST LAB AND BEAR THAT LABEL OF APPROVAL. EQUIPMENT SHALL BE LISTED PER UL 1703 AND 1741.
- CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT ALL MATERIAL AND EQUIPMENT FOR THIS WORK, UNLESS OTHERWISE NOTED.
- FURNISH DISCONNECT SWITCHES AT REMOTE EQUIPMENT.
- ALL SPACES AS INDICATED ON PANELS OR SWITCHBOARDS SHALL BE COMPLETE WITH HARDWARE AND BUSING FOR FUTURE BREAKER OR SWITCH.
- GROUNDING AND BONDING SHALL BE PER CODE PLUS ANY ADDITIONAL PROVISIONS SPECIFIED AS SHOWN ON DRAWINGS.
- ALL CONDUIT RUNS SHALL CONTAIN A CODE SIZED GREEN GROUND WIRE.
- THESE PLANS ARE NOT COMPLETE UNTIL APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- ALL CONDUCTORS SHALL BE IN CONDUIT.
- ALL CONDUCTORS SHALL BE COPPER WITH TYPE THHN/THWN INSTALLATION.
- COORDINATE WITH SERVING ELECTRICAL UTILITY COMPANY AND MAKE PROVISIONS FOR INTERCONNECTION OF PV SYSTEM.
- INSTALLATION SHALL COMPLY WITH CEC §:
  - #90.4 PV SYSTEM INSTALLATION
  - #90.31 PV WIRING METHODS
  - #90.33 PV SYSTEM CONNECTORS
  - #90.34 PV SYSTEM EQUIPMENT GROUNDING CONDUCTOR
  - #90.35 DC PV POWER SOURCE MARKING

APPROVED BY: [Signature] DATE: 8/7/10

DESIGNED BY: [Signature] DATE: 8/7/10

CHECKED BY: [Signature] DATE: 8/7/10

PROJECT NO: E1312

DATE: 8/7/10

DESCRIPTION: GARDEN IN THE SUN PARK SOLAR PANEL THREE LINE DIAGRAM

PLANT DATE: July 2, 2015

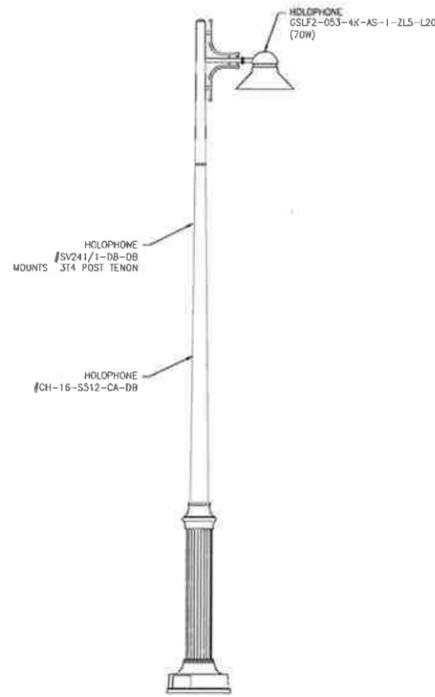
JOB NO: A150185

FILE NAME: A150185 E112

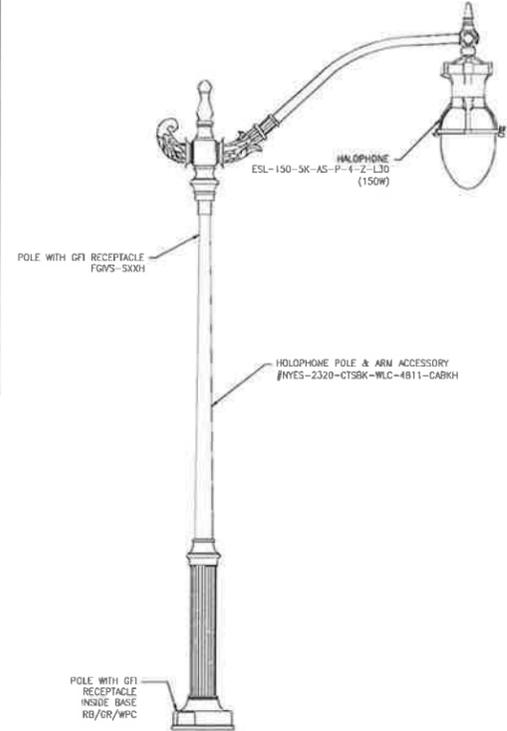
SCALE: AS SHOWN

SHEET NO: E 108

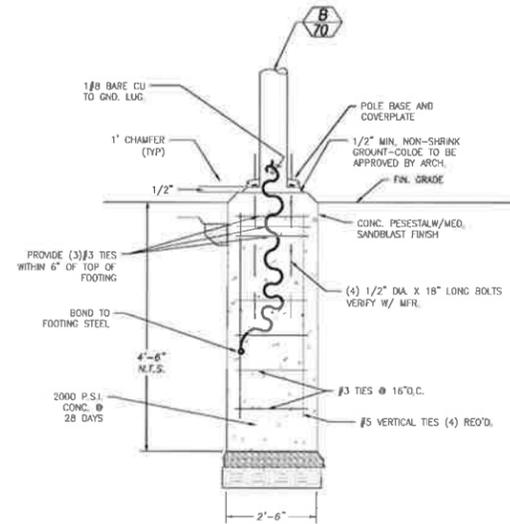
811 Know what's below. Call before you dig.



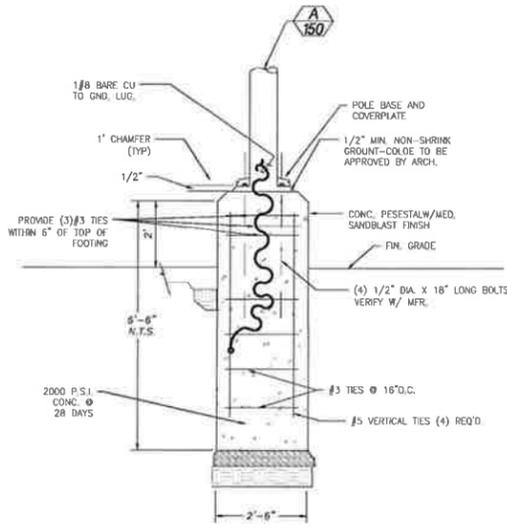
1 WALKWAY LIGHT ELEVATION



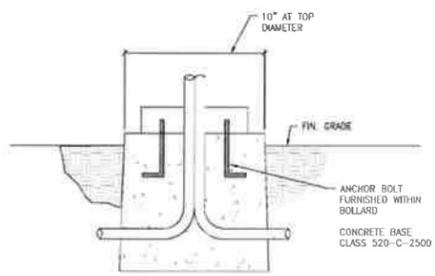
2 PARKING LOT LIGHT ELEVATION



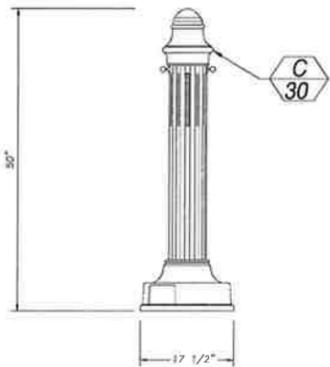
3 WALKWAY LIGHT POLE BASE



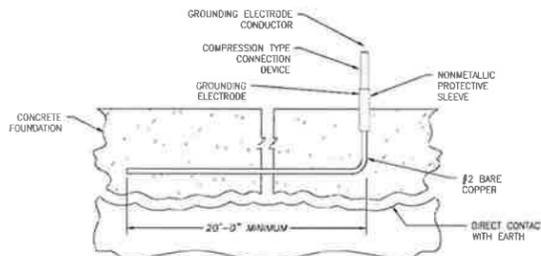
4 PARKING LOT POLE BASE DETAIL



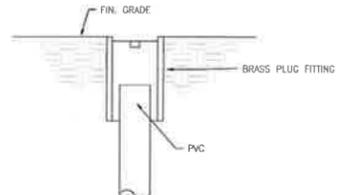
5 BOLLARD BASE DETAIL



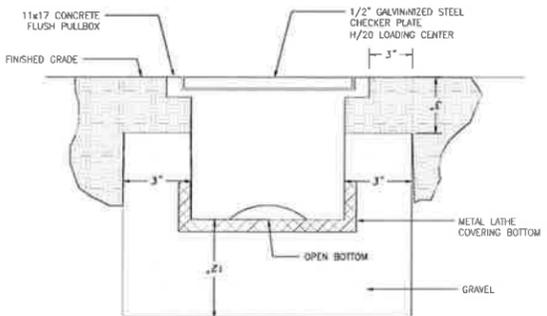
6 BOLLARD LIGHT DETAIL



7 UFER GROUND DETAIL



8 CONDUIT CAPPING DETAIL



9 FLUSH PULLOUT BOX

TYPE	MANUFACTURER & CATALOG NO.	MFR	LAMP TYPE	WATTS	BALLAST	LENS	REMARKS
A	HOLOPHONE ESL-150-5K		TEARDROP DRIVER	150	LED DRIVER		
B	HOLOPHONE GSLF2-053-4K		FLASHERS LED	70	LED DRIVER	FLAT GLASS	
C	STERNBERG STOLED-CL2		BOLLARD LED	30	LED DRIVER		
FX1	DECO DVS-2-32-UNY-1-EB-LP841		SURF	FX 1			ROUGH SURFACE
FX2	DECO D403-250-P-MTPS-BZ-LP		WALL	FX 2			OUTDOOR WALL PACK

ALL FLUORESCENT BALLASTS TO BE ENERGY SAVING TYPES, U.O.N. CERTIFIED PER TITLE 24 SECTION 2-5315 (a)

10 LIGHT FIXTURE SCHEDULE

REVISION	DATE	BY	DESCRIPTION



APPROVED BY: *[Signature]*  
 DATE: \_\_\_\_\_  
 CITY: ENGINEER  
 E 13512  
 FARHAD HOLAKOUEI  
 ELECTRICAL ENGINEER



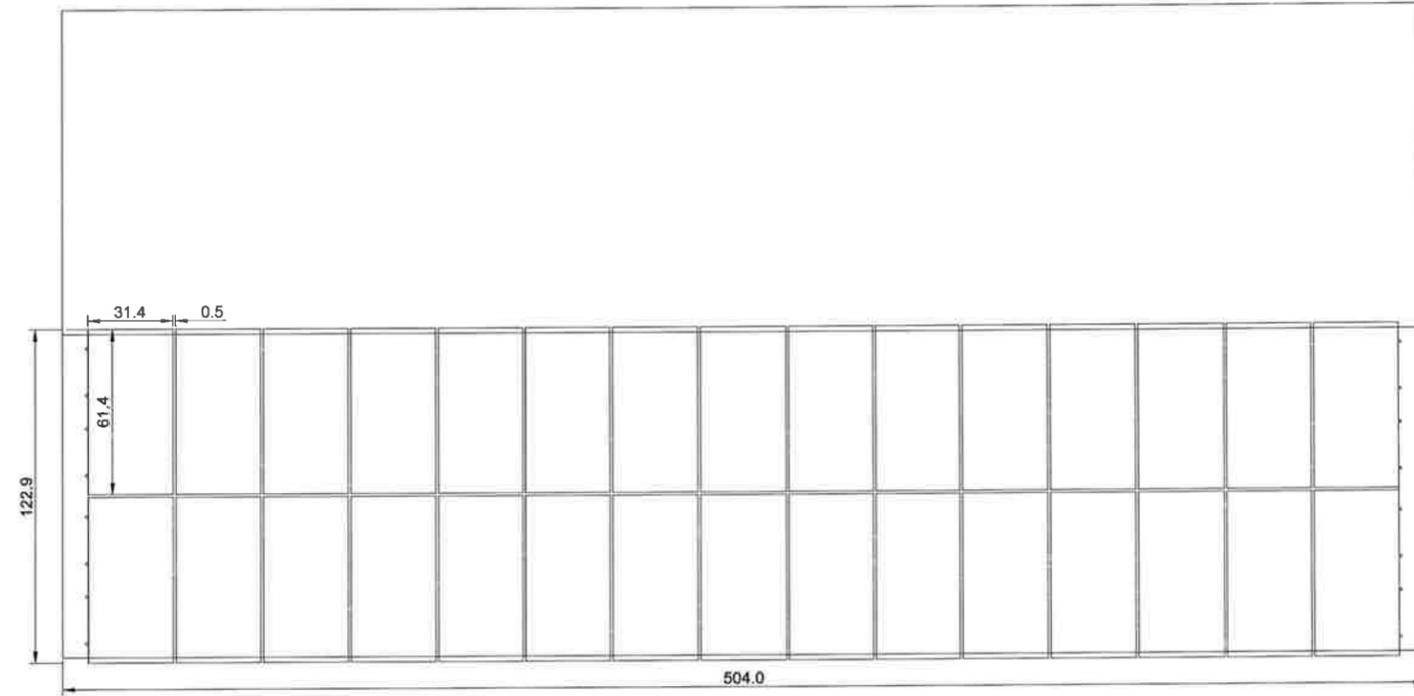
PROJECT: GARDEN IN THE SUN PARK  
 ELECTRICAL DETAILS & LIGHT FIXTURE SCHEDULE  
 CITY OF ARVIN  
 200 CALIFORNIA BLVD  
 ARVIN, CA 93203  
 (805) 834-3134

DATE: JULY 1, 2015  
 JOB NO: A150185  
 FILE NAME: A150185021110  
 SCALE: AS SHOWN  
 SHEET NO: E 110

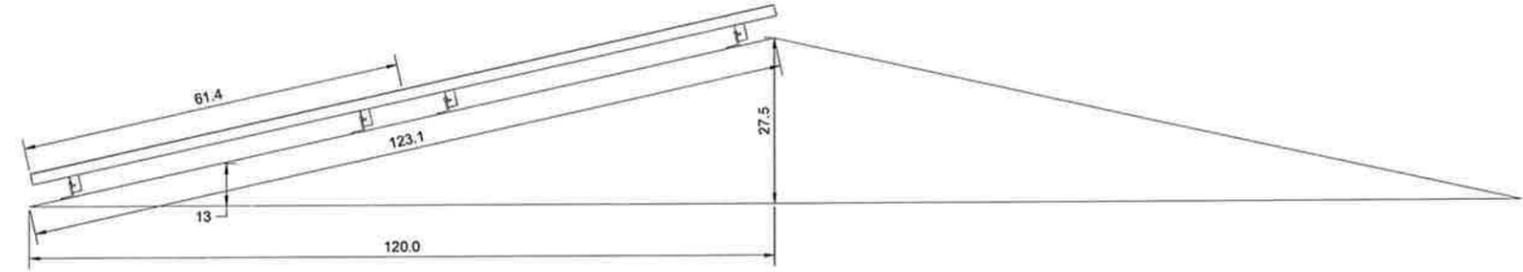
NTS

**GENERAL NOTES**

1. THE ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2010 CALIFORNIA ELECTRICAL CODE AND ALL APPLICABLE LOCAL ORDINANCES WHERE PLANS CALL FOR A HIGHER STANDARD THAN APPLICABLE CODES, THE PLANS SHALL GOVERN.
  2. CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT FIELD CONDITIONS.
  3. ALL ELECTRICAL EQUIPMENT SHALL BE LISTED BY A RECOGNIZED TEST LAB AND BEAR THAT LABEL. APPROVAL EQUIPMENT SHALL BE LISTED PER UL 1703 AN 1741.
  4. CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT ALL MATERIAL AND EQUIPMENT FOR THIS WORK, UNLESS OTHERWISE NOTED.
  5. FURNISH DISCONNECT SWITCHES AT REMOTE EQUIPMENT.
  6. ALL SPACES AS INDICATED ON PANELS OR SWITCHBOARDS SHALL BE COMPLETE WITH HARDWARE AND BUSING FOR FUTURE BREAKER OR SWITCH.
  7. GROUNDING AND BONDING SHALL BE PER CODE PLUS ANY ADDITIONAL PROVISIONS SPECIFIED OR SHOWN ON DRAWINGS.
  8. ALL CONDUIT RUNS SHALL CONTAIN A CODE SIZED GREEN GROUND WIRE.
  9. THESE PLANS ARE NOT COMPLETE UNTIL APPROVED BY THE AUTHORITY HAVING JURISDICTION.
  10. ALL CONDITIONS SHALL BE IN CONDUIT.
  11. ALL CONDUCTORS SHALL BE COPPER WITH TYPE THW/THWN INSTALLATION.
  12. COORDINATE WITH SERVING ELECTRICAL UTILITY COMPANY AND MAKE PROVISIONS FOR INTERCONNECTION OF PV SYSTEM.
  13. INSTALLATION SHALL COMPLY WITH CEG #  
#00 4 PV SYSTEM INSTALLATION  
#00 31 PV WIRING METHODS  
#00 33 PV SYSTEM CONNECTORS  
#00 45 PV SYSTEM EQUIPMENT GROUNDING CONDUCTOR  
#00 53 DC PV POWER SOURCE MARKING
- PHOTOVOLTAIC SYSTEM LAYOUT DETAIL  
 MAINTENANCE BUILDING LARGE INVERTER SYSTEM  
 CITY 39 - SUNPOWER SPRUCE W-17  
 QTY 1 - SUNPOWER SPR 100W
- ARRAY AZIMUTH: SOUTHWEST  
 ARRAY TILT: 13 DEG OR 2 75 12 PITCH
- ALL PENETRATIONS TO BE WEATHERIZED & SEALED ACCORDING TO MFG. SPECS
- NOTE: ALL MODULES, STRINGS OF 10  
 SOLAR DEAD LOAD EST 27H PSF



1 PARTY PAVILION - TOP VIEW



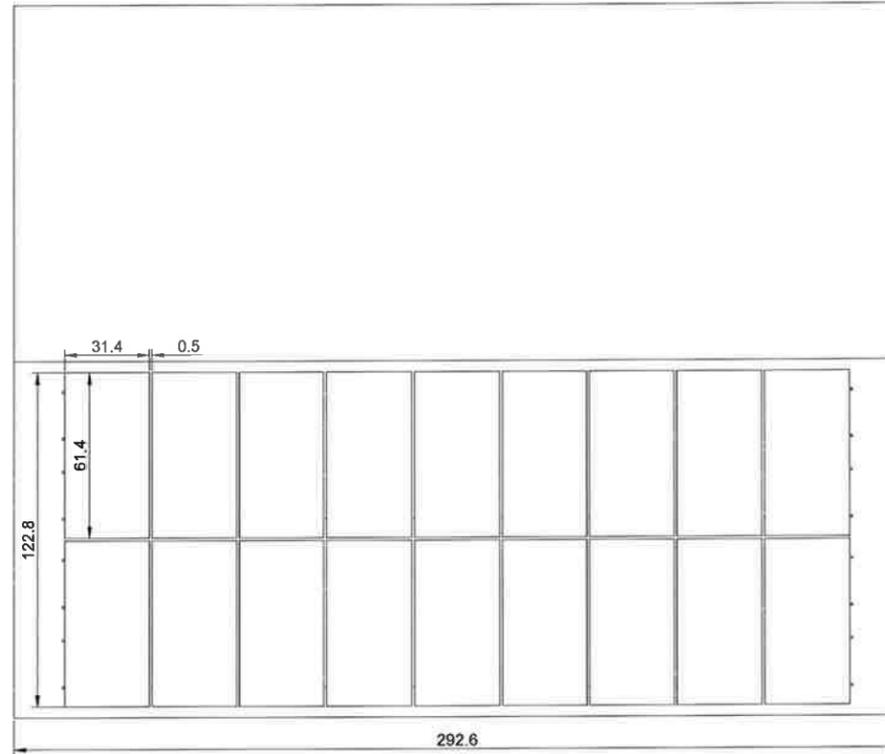
2 PARTY PAVILION - SIDE VIEW



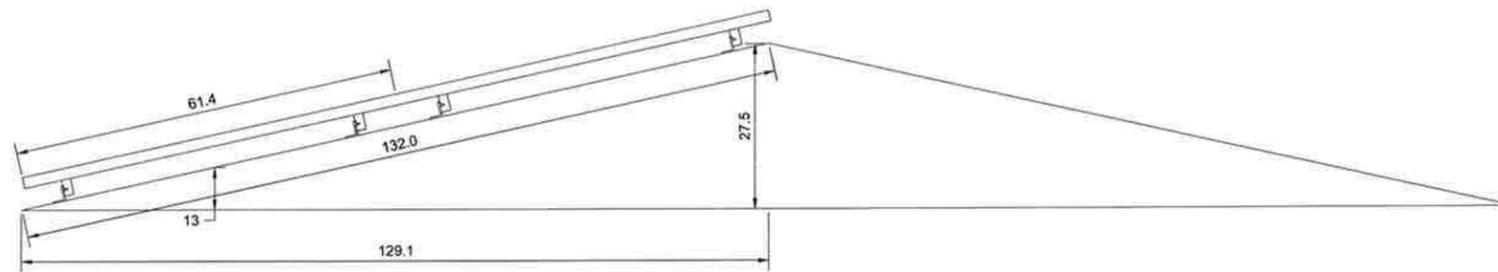
<p>APPROVED BY: <i>[Signature]</i>                  DATE: _____                  CITY ENGINEER</p>	<p>PROJECT APPROVED FOR OWNER'S REQUEST                  DATE: _____                  BY: _____                  FOR: _____</p>
<p><b>Holakeue &amp; Associates, Inc.</b>                  FARRAD HOLAKOUE, P.E.                  2727 UNIVERSITY DRIVE, SUITE 207                  BERKELEY, CA 94704</p>	
<p>REVIEWED BY: _____                  DATE: _____  <b>Quad Knopf</b>                  1400 UNIVERSITY DRIVE, SUITE 207                  BERKELEY, CA 94704</p>	
<p>APPROVAL PLAN FOR:  <b>CITY OF ARVIN</b>                  200 CAMDEN DRIVE                  ARVIN, CA 93203                  (805) 834-3134                  (805) 834-3134</p>	
<p><b>GARDEN IN THE SUN PARK                  SOLAR SYSTEM LAYOUT</b></p>	
<p>PLAT DATE: JULY 1, 2015                  JOB NO: A150185                  FILE NAME: A150185 E130                  SCALE: AS SHOWN                  SHEET NO: E 120</p>	

GENERAL NOTES

1. THE ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2010 CALIFORNIA ELECTRICAL CODE AND ALL APPLICABLE LOCAL ORDINANCES WHERE THE PLANS CALL FOR A HIGHER STANDARD THAN APPLICABLE CODES. THE PLANS WILL GOVERN.
  2. CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT FIELD CONDITIONS.
  3. ALL ELECTRICAL EQUIPMENT SHALL BE LISTED BY A RECOGNIZED TEST LAB AND BEAR THAT LABEL OF APPROVAL. EQUIPMENT SHALL BE LISTED PER UL 1703 AND 1741.
  4. CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT ALL MATERIAL AND EQUIPMENT FOR THIS WORK, UNLESS OTHERWISE NOTED.
  5. FURNISH DISCONNECT SWITCHES AT REMOTE EQUIPMENT.
  6. ALL SPACES AS INDICATED ON PANELS OR SWITCHGARDS SHALL BE COMPLETE WITH HARDWARE AND BUSING FOR FUTURE BREAKER OR SWITCH.
  7. GROUNDING AND BONDING SHALL BE PER CODE PLUS ANY ADDITIONAL PROVISIONS SPECIFIED OR SHOWN ON DRAWINGS.
  8. ALL CONDUIT RUNS SHALL CONTAIN A CODE SIZED GREEN GROUND WIRE.
  9. THESE PLANS ARE NOT COMPLETE UNTIL APPROVED BY THE AUTHORITY HAVING JURISDICTION.
  10. ALL CONDITIONS SHALL BE IN CONDUIT.
  11. ALL CONDUCTORS SHALL BE COPPER WITH TYPE THHN/TWN INSTALLATION.
  12. COORDINATE WITH SERVING ELECTRICAL UTILITY COMPANY AND MAKE PROVISIONS FOR INTERCONNECTION OF PV SYSTEM.
  13. INSTALLATION SHALL COMPLY WITH CEG #
    - #90 4 PV SYSTEM INSTALLATION
    - #90 31 PV WIRING METHODS
    - #90 33 PV SYSTEM CONNECTORS
    - #90 49 PV SYSTEM EQUIPMENT GROUNDING CONDUCTOR
    - #90 53 DC PV POWER SOURCE MARKING
- PHOTOVOLTAIC SYSTEM LAYOUT DETAIL
- MAINTENANCE BUILDING LARGE INVERTER SYSTEM  
 QTY. 30 - SUNPOWER SPR-3ACE-W-1T  
 QTY. 1 - SUNPOWER SPR-100M
- ARRAY AZIMUTH: SOUTH-SOUTHWEST  
 ARRAY TILT: 13 DEG OR 2 7/8 12 P/12G4
- ALL PENETRATIONS TO BE WEATHERIZED & SEALED ACCORDING TO MFG. SPECS
- NOTE: ALL MODULE STRINGS OF 10 SOLAR DEAD LOAD EST. 2.74 PSF



1 RESTROOM BUILDING ROOF - TOP VIEW



2 RESTROOM BUILDING ROOF- SIDE VIEW



DATE	BY	DESCRIPTION
07/27/2015	SK	PROJECT UPDATE FOR OWNER'S REQUEST



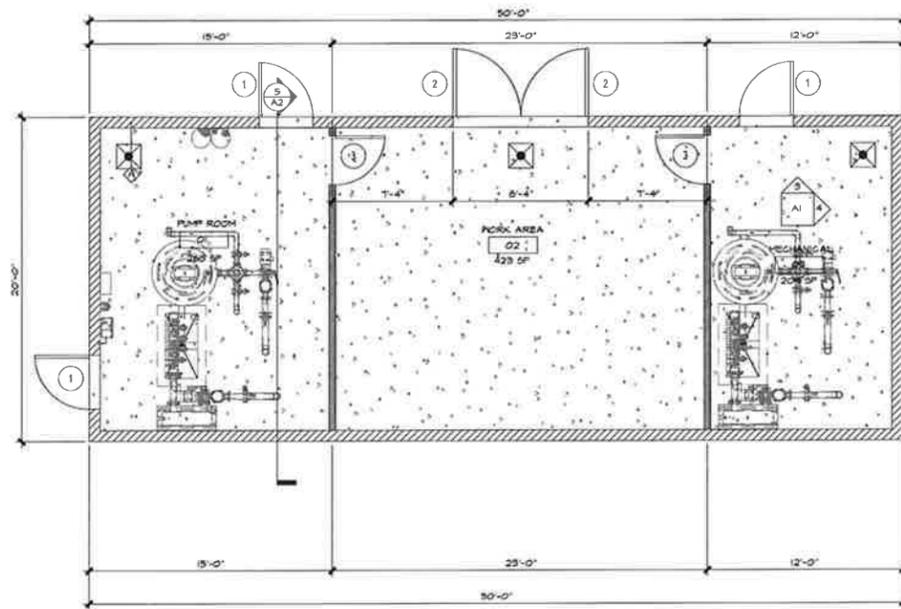
APPROVED BY:	<i>Fahad Holakouie</i>	DATE:	07/27/15
	FAHAD HOLAKOUIE CITY ENGINEER		
DATE:		DATE:	07/27/15
	FAHAD HOLAKOUIE ELECTRICAL ENGINEER		



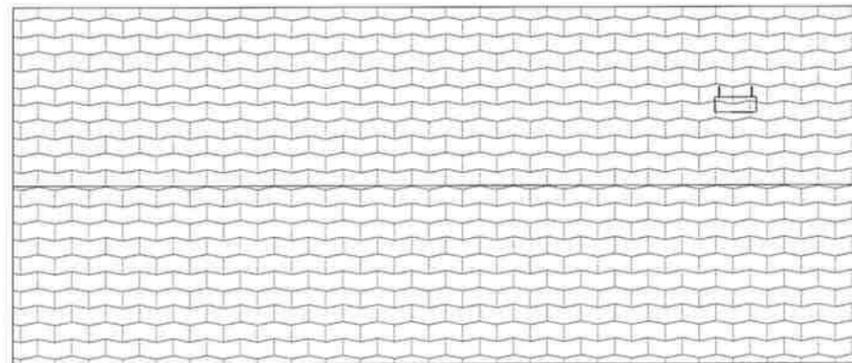
IMPROVEMENT PLAN FOR  
**CITY OF ARVIN**  
 200 CLAYTON DRIVE  
 ARVIN, CA 93203  
 (805) 834-3134  
 (805) 834-3134

**GARDEN IN THE SUN PARK  
 SOLAR SYSTEM LAYOUT**

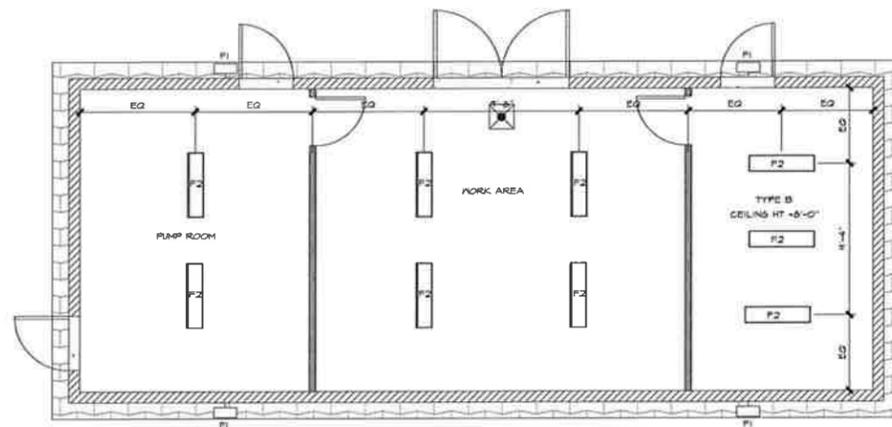
PROJECT DATE:	JULY 1, 2015
JOB NO.:	A150185
FILE NAME:	A150185 E120
SCALE:	AS SHOWN
SHEET NO.:	E 121



FLOOR PLAN (MAINTENANCE) 1/4"



ROOF PLAN (MAINTENANCE) 1/4"



REFLECTED CEILING PLAN (MAINTENANCE) 1/4"

DOOR SCHEDULE											DOOR TYPES	
MARK NO.	DOOR NO.	HA SET	MODE	WIDTH	HEIGHT	THK.	DR.	FRM.	RATING	OUTSIDE LOCATION	INSIDE LOCATION	
1	1	01	SGL	4'-0"	7'-0"	3/4"	HMD	H-F	NON RATED	EXTERIOR	ELECTRICAL BUILDING	 INSULATED DOOR
2	2	01	SGL	4'-0"	7'-0"	3/4"	HMD	H-F	NON RATED	EXTERIOR	ELECTRICAL BUILDING	
3	3	01	SGL	3'-0"	7'-0"	3/4"	HMD	H-F	NON RATED	EXTERIOR	ELECTRICAL BUILDING	

LEGEND

- 8x8x16 MASONRY UNITS
- HOLLOW METAL DOOR AND FRAME (GROUT - FILLED) SET INTO CONCRETE MASONRY UNIT WALL
- DOOR NUMBER - SEE DOOR SCHEDULE

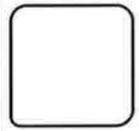
GENERAL NOTES

1. SEE SHEET A102 FOR ELEVATIONS OF THE ELECTRICAL BUILDING.
2. AT ELECTRICAL ROOM FINISHES SHALL BE EXPOSED SMOOTH CONCRETE MASONRY UNITS AT THE WALLS AND SEALED CONCRETE FLOORS.
3. ALL COLORS TO BE CHOSEN BY THE ENGINEER AND APPROVED BY OWNER.
4. SEE SITE PLAN SHEET C301 FOR NEW SLAB.

NOTE:  
COURTESY COPY FOR REVIEW OF BID DOCUMENTS.  
BID DOCUMENTS AVAILABLE AT CITY HALL.



REV.	DATE	DESCRIPTION
1	07/01/15	OK PROJECT UPDATE FOR OWNER'S REQUEST



APPROVED BY:  
*Daniel A. Stevens*  
DANIEL A. STEVENS  
CITY ENGINEER

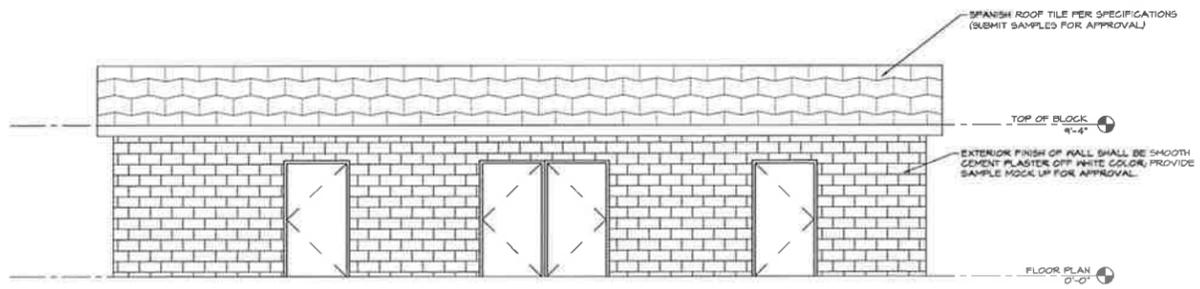
DATE: 6/7/15



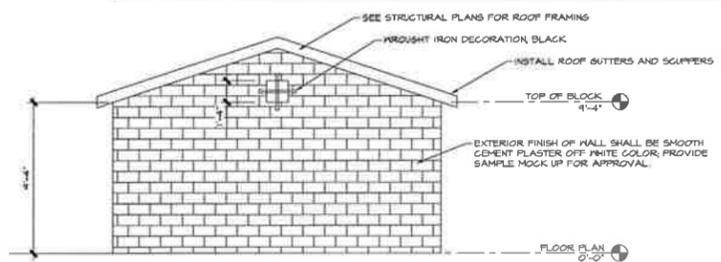
PREPARED BY:  
**Quad Knopf**  
200 CALIFORNIA AVE  
BARTSFIELD, CA 94303  
TEL: (925) 938-3000  
(925) 938-3134  
WWW.QUADKNOPF.COM

IMPROVEMENT PLAN FOR  
**CITY OF ARVIN**  
200 CALIFORNIA DRIVE  
ARVIN, CA 93203  
(818) 864-3134  
**GARDEN IN THE SUN PARK  
MAINTENANCE BUILDING**

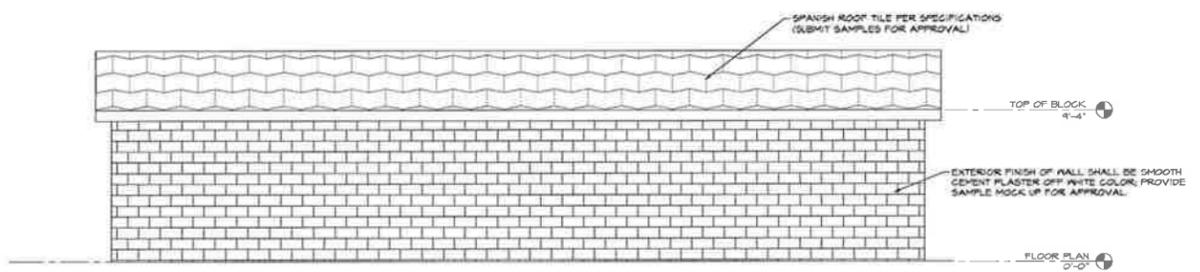
DATE: JULY 1, 2015  
JOB NO: A150185  
FILE NAME: A150185 A101  
SCALE: AS SHOWN  
SHEET NO: A 101



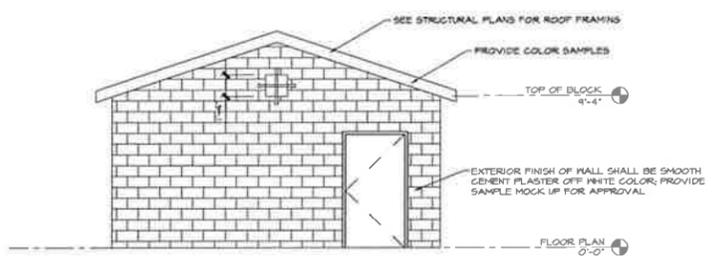
**NORTH ELEVATION (MAINTENANCE)**



**EAST ELEVATION (MAINTENANCE)**



**SOUTH ELEVATION (MAINTENANCE)**

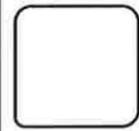


**WEST ELEVATION (MAINTENANCE)**

NOTE:  
COURTESY COPY FOR REVIEW OF BID DOCUMENTS.  
BID DOCUMENTS AVAILABLE AT CITY HALL.



NO.	REVISION	DATE



APPROVED BY:  
*[Signature]*  
DANIEL A. BACENAS  
CITY ENGINEER  
DATE: \_\_\_\_\_

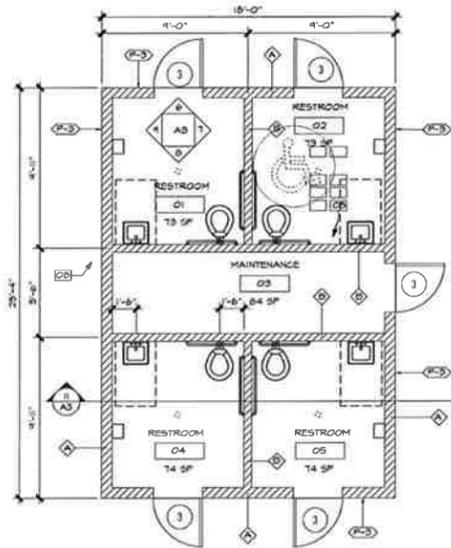


PREPARED BY:  
**Quad Knopf**  
3150 MARKET STREET, SUITE 200, ARVIN, CA 93203  
TEL: (818) 618-2000  
FAX: (818) 618-2070  
WWW.QUADKNOPF.COM

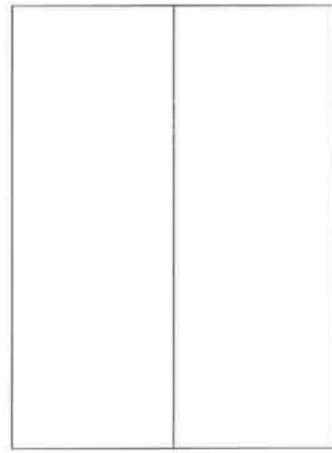
PROJECT PLAN FOR  
**CITY OF ARVIN**  
200 CAMPUS DRIVE  
ARVIN, CA 93203  
(818) 864-2134

**GARDEN IN THE SUN PARK  
MAINTENANCE BUILDING ELEVATIONS**

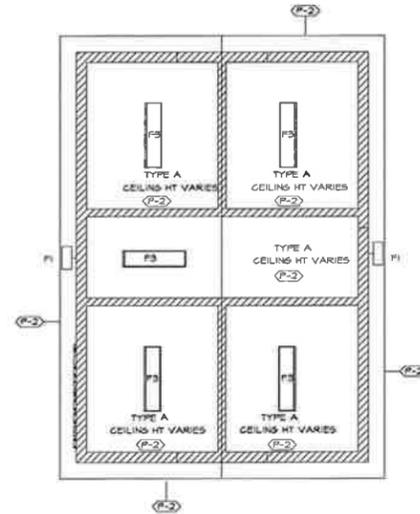
PLAT DATE: July 1, 2015  
JOB NO: A130105  
FILE NAME: A130105 A102  
SCALE: AS SHOWN  
SHEET NO: A 102



FLOOR PLAN (RESTROOM) 1/4"=1'0"

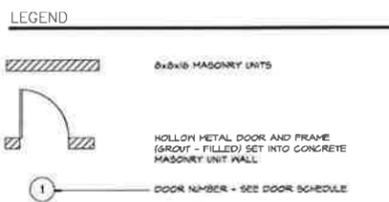


ROOF PLAN (RESTROOM) 1/4"=1'0"

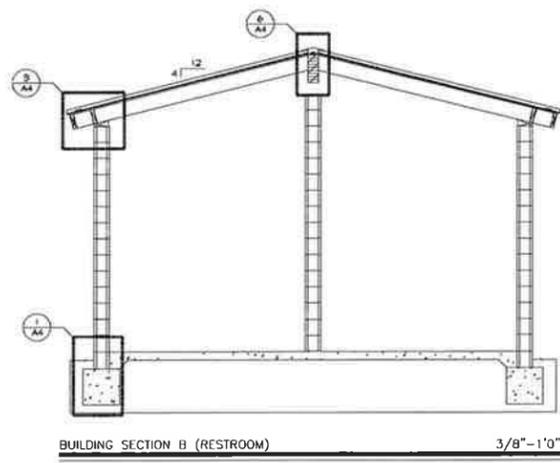
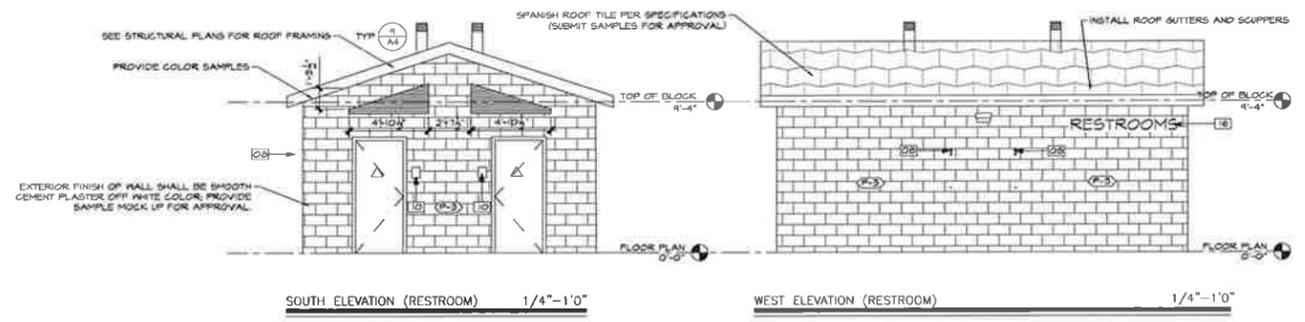
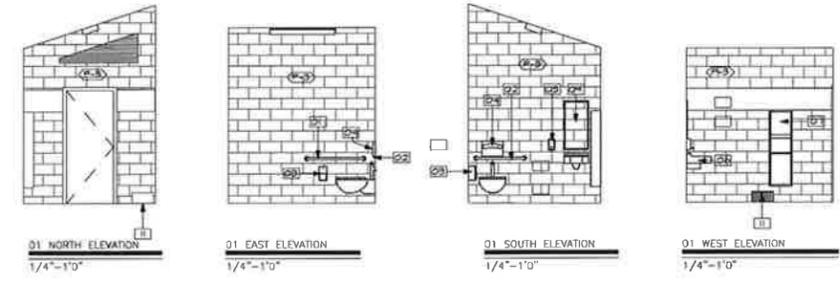
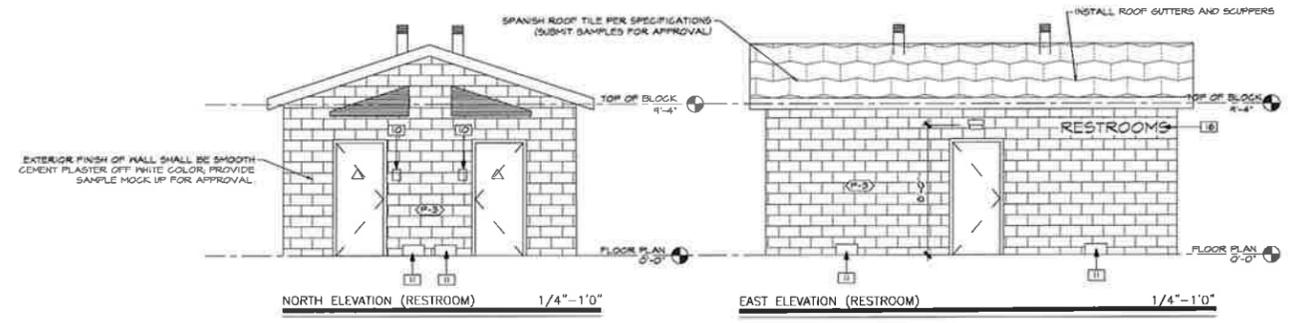


REFLECTED CEILING PLAN (RESTROOM) 1/4"=1'0"

DOOR SCHEDULE												DOOR TYPES	
MARK	NO.	DOOR SET	MODE	WIDTH	HEIGHT	THK.	DR.	FRM.	RATING	OUTSIDE LOCATION	INSIDE LOCATION	DOOR TYPES	
1	1	O1	SGL	4'-0"	7'-0"	1 1/2"	HMD	HWF	NON RATED	EXTERIOR	ELECTRICAL BUILDING	INSULATED DOOR	
2	2	O1	SGL	4'-0"	7'-0"	1 1/2"	HMD	HWF	NON RATED	EXTERIOR	ELECTRICAL BUILDING	INSULATED DOOR	
3	3	O1	SGL	3'-0"	7'-0"	1 1/2"	HMD	HWF	NON RATED	EXTERIOR	ELECTRICAL BUILDING	INSULATED DOOR	



- GENERAL NOTES
- SEE SHEET A03 FOR ELEVATIONS OF THE ELECTRICAL BUILDING.
  - AT ELECTRICAL ROOM FINISHES SHALL BE EXPOSED SMOOTH CONCRETE MASONRY UNITS AT THE WALLS AND SEALED CONCRETE FLOORS.
  - ALL COLORS TO BE CHOSEN BY THE ENGINEER AND APPROVED BY OWNER.
  - SEE SITE PLAN SHEET C501 FOR NEW SLABS.



NOTE: COURTESY COPY FOR REVIEW OF BID DOCUMENTS. BID DOCUMENTS AVAILABLE AT CITY HALL.



NO.	DATE	REVISION



APPROVED BY: *Modest A. Becenas*  
 DATE: 6/7/2015  
 MODEST A. BECENAS  
 CITY ENGINEER



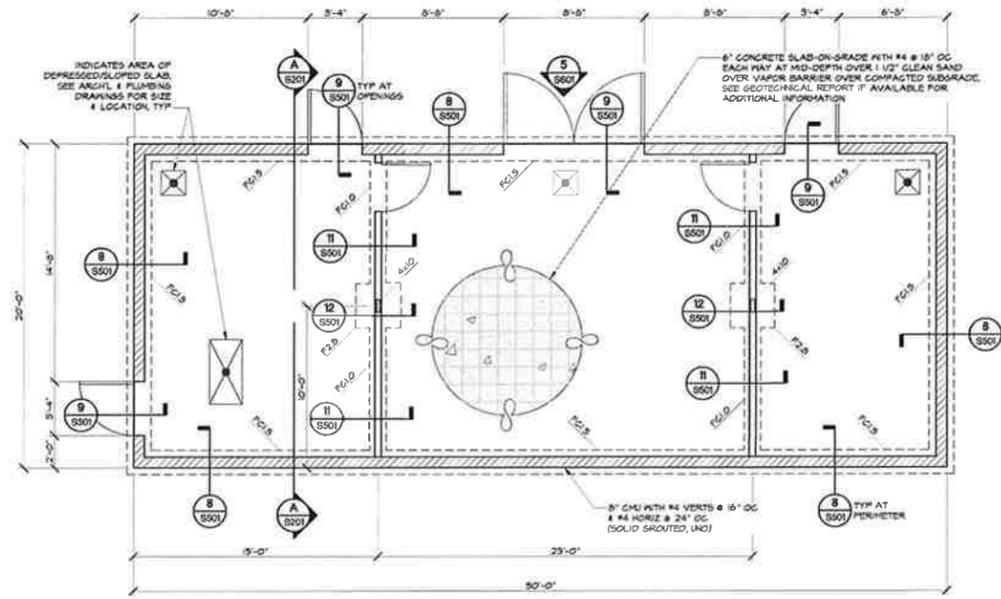
PREPARED BY:  
**Quad Knopf**  
 5000 CALIFORNIA AVE.  
 SUITE 220, CA 92308  
 TEL: (951) 944-2008  
 TEL: (951) 944-2008  
 FAX: (951) 944-2070  
 WWW.QUADKNOPF.COM

APPROVED FOR THE:  
**CITY OF ARVIN**  
 200 CAMPUS DRIVE  
 ARVIN, CA 93203  
 (805) 824-3334

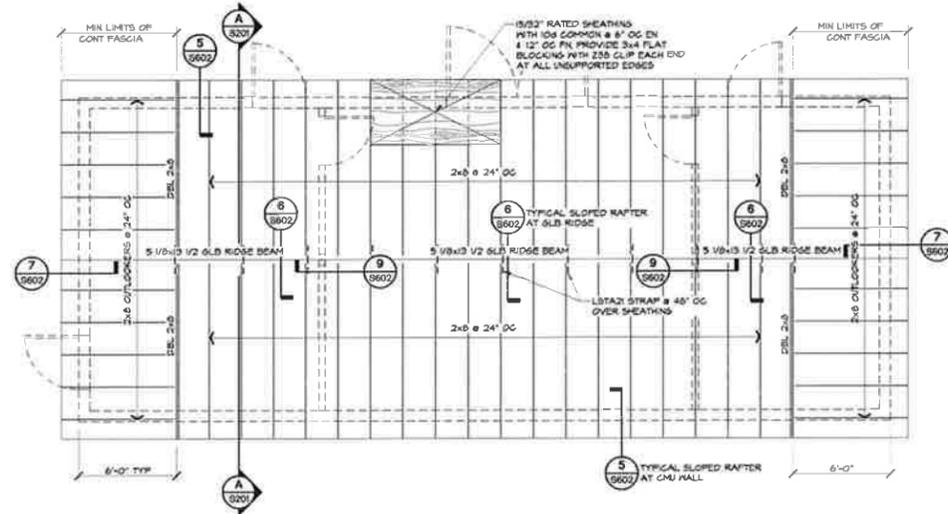
**GARDEN IN THE SUN PARK  
 RESTROOM BUILDING**

PLST DATE	July 1, 2015
JOB NO.	A150165
FILE #	A150165 A103
SCALE	AS SHOWN
SHEET NO.	A 103





**FOUNDATION PLAN**  
1/4" = 1'-0"



**ROOF FRAMING PLAN**  
1/4" = 1'-0"

1. SECTION OR DETAIL NUMBER  
SHEET NUMBER WHERE SECTION OR DETAIL IS SHOWN
2. INDICATES CONCRETE FOOTINGS
3. INDICATES CONT/ISOLATED FOOTING TYPE. SEE SHEET S201 FOR FOOTING SCHEDULE
4. INDICATES TOP OF SLAB ELEVATION
5. INDICATES CMU WALL
6. INDICATES MINIMUM LIMITS OF NON-BEARING PARTITION WALL
7. INDICATES VIEWING DIRECTION OF PARTIAL WALL ELEVATIONS
8. INDICATES COLUMN AND ISOLATED FOOTINGS TYPE OR POST AND BASE

**FOUNDATION LEGEND**

1. ALL NON-BEARING PARTITION WALLS TO BE 2x4 @ 16" OC, UNO
2. FOR FASTENING SCHEDULE, SEE DETAIL U/5602
3. NAIL SIZES  
D3 NAIL = 0.31" x 2 1/2" MIN COMMON  
10D NAIL = 0.148" x 3" MIN COMMON  
16d NAIL = 0.162" x 3 1/2" MIN COMMON
4. FOR TYPICAL WALL FRAMING SEE DETAIL 2/5602
5. PROVIDE WASHER PLATE 1/4"x3x0'-3" AT ALL AB, TYPICAL
6. PROVIDE DOUBLE 2x4 MIN TOP PLATE WITH (B) 16d COMMONS EACH SIDE OF EACH UPPER TOP PLATE SPLICE, UNO. SEE DETAIL 2/5602 FOR ADDITIONAL SPLICE INFORMATION

**WALL FRAMING NOTES**

1. REFER TO STRUCTURAL SPECIFICATIONS ON SHEET S101
2. TOP OF SLAB ELEVATION = +0'-0" TYPICAL, UNLESS NOTED OTHERWISE
3. ALL DIMENSIONS ARE TO FACE OF CONCRETE TRIMMER OR CENTERLINE OF COLUMN/POST, UNLESS NOTED OTHERWISE
4. PRIOR TO THE CONTRACTOR REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, THE GEOTECHNICAL ENGINEER SHALL ADVISE THE BUILDING DEPARTMENT AND THE ENGINEER IN WRITING THAT THE BUILDING PAD HAS BEEN PREPARED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND SPECIFICATIONS
5. FOR PIPES NEAR OR THROUGH FOOTINGS, SEE DETAILS 2 & D/5501
6. FOR TYPICAL BAR REINFORCING HOOKS, BENDS & LAPS, SEE DETAIL 6/5501
7. REFER TO ARCH. DRAWINGS FOR DIMENSIONS NOT SHOWN, VERIFY ALL DIMENSIONS WITH ARCH. TYPICAL
8. REFER TO ARCH. FOR CONCRETE CURB LOCATIONS WHERE OCCUR, TYPICAL
9. VERIFY EXTENTS, SLOPES, AND DIMENSIONS FOR CONCRETE RAMPS, STAIRS AND RETAINING WALLS WITH ARCH. AND CIVIL, TYPICAL

**FOUNDATION NOTES**

ITEM	DESCRIPTION	DETAIL NUMBER
FC10	1'-0" CONT 1'-6"	(1) #4 CONT AT TOP AND BOTTOM U/5501
FC15	1'-6" CONT 1'-6"	(1) #4 CONT AT TOP AND BOTTOM B & 4/5501
F28	2'-4" 2'-4" 1'-6"	(3) #4 EACH WAY TOP & BOTTOM I2/5501

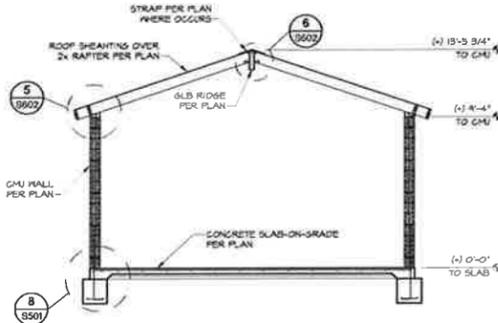
**FOOTING SCHEDULE**

SEE SHEET S10 FOR CONCRETE AND SOIL INFORMATION TO FOOTINGS & (-) 1'-0" UNO

SPAN	HEADER	TRIMMERS	KING POST/STUD
0'-0" TO 3'-0"	4x6	(1) 2x4	(1) 2x4

**HEADER SCHEDULE**

ALL 4x6x6 HEADERS TO BE DF-L4 WITH HH HANGER OVER JAMB/TRIMMER STUD EACH END TO KING STUD(S). TYPICAL APPLIES TO OPENINGS WITHOUT SPECIFIC HEADERS SPECIFIED ON PLAN



**A BUILDING SECTION**  
1/4" = 1'-0"

1. SECTION OR DETAIL NUMBER  
SHEET NUMBER WHERE SECTION OR DETAIL IS SHOWN
2. INDICATES TOP OF SHEATHING ELEVATION TO BE VERIFIED WITH ARCHITECTURAL DRAWINGS
3. INDICATES PENETRATION IN ROOF, SEE MECHANICAL SHEETS FOR SIZE AND LOCATION & DETAIL U/5602 FOR TYPICAL FRAMING
4. INDICATES WALLS BELOW

**ROOF FRAMING LEGEND**

1. REFER TO STRUCTURAL SPECIFICATIONS ON SHEET S101
2. CONTRACTOR TO VERIFY ALL DIMENSIONS & ELEVATIONS SHOWN WITH ARCHITECTURAL SHEETS AND INFORM ARCHITECT AND ENGINEER OF ANY DISCREPANCY
3. NO PENETRATIONS FOR PIPING, CONDUITS, OR DUCT WORK SHALL BE MADE THROUGH THE TRUSS OR GIRDERS UNLESS APPROVED BY THE ENGINEER
4. ALL DIMENSIONS ARE TO FACE OF STUD OR CENTERLINE OF COLUMN, UNLESS NOTED OTHERWISE
5. WOOD PANEL DIAPHRAGM PENETRATIONS SHALL BE BLOCKED PER DETAIL U/5602

**ROOF FRAMING NOTES**

NOTE: COURTESY COPY FOR REVIEW OF BID DOCUMENTS. BID DOCUMENTS AVAILABLE AT CITY HALL

APPROVED BY: MICHELLE A. BAGANAS, PROJECT ENGINEER

DATE: 07/09

REGISTERED PROFESSIONAL ENGINEER  
STATE OF CALIFORNIA  
NO. 51487

**QUAD KNOTP INC.**  
INCORPORATED  
250 CHARLES DRIVE  
ARVIN, CA 93203  
(805) 854-3134

**CITY OF ARVIN**  
250 CHARLES DRIVE  
ARVIN, CA 93203  
(805) 854-3134

**GARDEN IN THE SUN PARK**  
SUB TITLE

PROJECT NO: 07-04-19  
DATE: 1500-08  
SCALE: AS NOTED  
SHEET NO: **S201**



**BASIS OF DESIGN**

DESIGN PARAMETERS		BUILDING DATA	
ROOF LIVE LOAD	20 PSF	CONSTRUCTION CLASSIFICATION	TYPE 11-B
ROOF SNOW LOAD	20 PSF, I=1	OCCUPANCY CLASSIFICATION	A-3
DESIGN ROOF DEAD LOAD	5 PSF	NO. OF STORIES	1
WIND CRITERIA	100 MPH 3 SEC. GUST, EXPOSURE C, I=1	BUILDING AREA	288 SF
SEISMIC COEFFICIENT S <sub>s</sub>	1.5		
SEISMIC COEFFICIENT S <sub>1</sub>	1		
TRANSVERSE R	3.5		
LONGITUDINAL R	1.25		
SEISMIC IMPORTANCE FACTOR I	1		
SEISMIC DESIGN CATEGORY	E		
SITE CLASS	D		
SOIL DESIGN BEARING STRENGTH	3000 PSF		
		<b>STRUCTURAL DATA</b>	
		TRANSVERSE LATERAL RESISTING SYSTEM	STEEL ORDINARY MOMENT RESISTING FRAMES
		LONGITUDINAL LATERAL RESISTING SYSTEM	DIAPHRAGMS AS STEEL ORDINARY MOMENT RESISTING FRAMES
		FOUNDATION SYSTEM	DRILLED CONCRETE PIERS OR SPREAD FOOTING OPTION
		MINIMUM SEISMIC SEPARATION	3"

**QUALITY ASSURANCE**

7. ALL WELDS SHALL BE PERFORMED BY A CERTIFIED STRUCTURAL WELDER. THE WELDER IS TO BE APPROVED BY THE CITY OF ARVIN.

8. WELDING INSPECTION IS REQUIRED BY A DEPUTY WELDING INSPECTOR.

9. STEEL CERTIFICATIONS SHALL BE PROVIDED TO THE CITY OF ARVIN BUILDING DEPARTMENT.

10. HIGH STRENGTH BOLTS SHALL BE TESTED BY AN APPROVED TESTING AGENCY.

11. DRY PACKING OF STEEL BASE PLATES SHALL BE OBSERVED BY A CERTIFIED DEPUTY CONCRETE INSPECTOR.

12. AN APPROVED SOILS ENGINEER SHALL INSPECT ALL STRUCTURAL FOUNDATIONS PRIOR TO THE PLACEMENT OF STEEL. A COPY OF THE ENGINEER'S INSPECTION REPORT SHALL BE PROVIDED TO THE ARVIN BUILDING DEPARTMENT.

**GENERAL NOTES**

- I. SHELTER DESIGN**
- A. THIS SHELTER HAS BEEN DESIGNED AS AN OPEN STRUCTURE. THE ADDITION OF ANY ENCLOSURE DIRECTLY ATTACHED TO THE SHELTER SUCH AS WALLS, INSECT MESH OR SHADE SCREENS SHALL BE PROHIBITED AS INCREASED WIND FORCES MAY RESULT.
- II. DESIGN AND CONSTRUCTION STANDARDS**
- A. THE DESIGN OF THIS STRUCTURE IS IN CONFORMANCE WITH THE FOLLOWING STANDARDS AND ALL PHASES OF CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING STANDARDS:
- 2013 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, C.C.C.)
  - 2013 CALIFORNIA BUILDING CODE, VOLUMES 1 AND 2 (PART 2, TITLE 24, C.C.C.) (BASED ON 2012 INTERNATIONAL BUILDING CODE WITH CALIFORNIA AMENDMENTS)
  - 2013 CALIFORNIA ARI CODE (PART 9, TITLE 24, C.C.C.)
  - 2013 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, C.C.C.)
  - STATE FIRE MARSHAL REGULATIONS (DIVISION 1, TITLE 19, PUBLIC SAFETY, C.C.R.)
- III. CONSTRUCTION CHANGES**
- A. CHANGES TO THE APPROVED PLANS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR CHANGE ORDER.
- IV. FOUNDATION**
- A. THE FOUNDATION SHALL REST ON SOUND SOIL THAT IS FREE OF ORGANIC AND DELICIOUS MATERIALS AND CAPABLE OF SUPPORTING 3000 PSF VERTICAL BEARING PRESSURE.
- B. FOR LATERAL LOADING, THE FOUNDATION HAS BEEN DESIGNED TO BE MINIMUM BEARING WELLS BY CDC TABLE 1904.2. THESE ARE 1000 PSF ALLOWABLE FOUNDATION PRESSURE AND 100 PSF/L LATERAL BEARING.
- C. FOUNDATION DESIGN SHOWN IS BASED ON THE SOIL CONDITIONS GIVEN IN NOTES A AND B ABOVE. OWNER SHALL VERIFY ACTUAL SOIL CONDITIONS AT EACH JOB SITE AND ANY REQUIRED ADJUSTMENTS TO THE FOOTING DESIGN SHALL BE DESIGNED BY OTHERS.
- V. CONCRETE**
- A. COMPRESSION STRENGTH OF ALL REINFORCED CONCRETE SHALL NOT BE LESS THAN 3000 PSI AT 28 DAYS.
- B. REINFORCING BARS SHALL BE DEFINED BARS CONFORMING TO THE REQUIREMENTS OF MINIMUM ASTM A618 GRADE 40 FOR #4 AND SMALLER BARS AND GRADE 60 FOR BARS LARGER THAN #4.
- C. MINIMUM CONCRETE COVER FOR REINFORCING BARS SHALL BE 3".
- D. CONCRETE SHALL USE TYPE II - V. DEMENT.
- VI. STRUCTURAL STEEL**
- A. STEEL PLATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM A588.
- B. HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500, GRADE B.
- C. ALL STRUCTURAL STEEL SHALL BE IDENTIFIED BY MILL CERTIFICATE.
- D. HIGH STRENGTH BOLTS (HSS) SHALL BE GALVANNEED AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325 OR HIGH STRENGTH BOLTS SHALL BE TENSORED TO A TENSILE CONDITION PLUS AN ADDITIONAL HALF TURN.
- E. ALL HIGH STRENGTH BOLTS SHALL HAVE IDENTIFICATION.
- F. WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN WELDING SOCIETY SPECIFICATION FOR THE WELDING OF STRUCTURAL STEEL, AS SET OUT.
- G. WELD ELECTRODES SHALL BE E7018.
- H. ALL WELDING SHALL BE APPROVED BY AN AWS CERTIFIED INSPECTOR.
- I. STEEL FINISHING SHALL BE COATED WITH ANTI-OXIDANT POLYESTER 100% POWDER COAT FRESH MEETING ANA 2104-02 SPECIFICATIONS.
- J. SHOP DRAWINGS OF ALL STRUCTURAL STEEL SHALL BE STAMPED BY A LICENSED STRUCTURAL ENGINEER AND SUBMITTED FOR APPROVAL PRIOR TO FABRICATION.
- K. ALL BOLT HOLE DIAMETERS SHALL BE EQUAL TO THE BOLT DIAMETER PLUS 1/16" U.A.O. BOLT HOLES FOR ANCHOR BOLTS SHALL BE EQUAL TO THE BOLT DIAMETER PLUS 1/8".
- VII. ALUMINUM**
- A. INTERLOCKING SEAM ALUMINUM ROOF DECK SHALL BE ROLL FORMED FROM ALUMINUM ALLOY 3004-H3747, SHALL CONFORM TO THE DECK PROFILE SHOWN ON THE DRAWINGS, AND SHALL MEET THE FOLLOWING MINIMUM MECHANICAL PROPERTIES:
- T<sub>b</sub> = 37 ksi
  - T<sub>y</sub> = 13 ksi
  - F<sub>y</sub> = 31 ksi
  - F<sub>t</sub> = 20 ksi
- B. ALUMINUM ROOF DECK SHALL BE COATED WITH HEAT REFLECTIVE BASF ULTRA-COOL COATING OR APPROVED EQUAL.
- C. EXTENDED ALUMINUM FASCIA SHALL BE FABRICATED FROM ALUMINUM ALLOY 3003-T5. EXTENDED ALUMINUM GUTTER SHALL BE FABRICATED FROM ALUMINUM ALLOY 3003-T5. ALUMINUM COMPONENTS SHALL CONFORM TO THE REQUIREMENTS SHOWN ON THE DRAWINGS.
- D. EXTENDED ALUMINUM ROOF CAP, GUTTER, AND FASCIA SHALL BE COATED WITH ANTI-OXIDANT POLYESTER 100% POWDER COAT FRESH MEETING ANA 2104-02 SPECIFICATIONS.
- VIII. SCREWS**
- A. SCREWS ATTACHING TO STEEL SHALL BE 12-24 HEX WASHER HEAD #5 POINT SELF DRILLING SCREWS WITH BOND SEAL FINISH BY 313 WITH OR APPROVED EQUAL.
- B. SCREWS ATTACHING TO ALUMINUM SHALL BE 8-18 HEX WASHER HEAD #2 POINT SELF DRILLING SCREWS BY ATLAS OR APPROVED EQUAL.
- C. ALL SCREWS SHALL BE STAINLESS STEEL OR COATED WITH ZINC.
- IX. SHOP FABRICATION AND FIELD ASSEMBLY**
- A. ALL STRUCTURAL STEEL AND ALUMINUM COMPONENTS SHALL BE SHOP FABRICATED SO THAT FIELD ASSEMBLY OF CONNECTIONS CAN BE PERFORMED USING ONLY BOLTING AND SCREW PLACEMENT.
- X. FIRE LIFE SAFETY**
- A. AN AUTOMATIC FIRE PROTECTION SYSTEM IS NOT REQUIRED FOR THIS BUILDING.

**SITE SPECIFIC OPTIONS**

To be completed prior to plan sheet submittal

Quantity of shelters at this site:  1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20

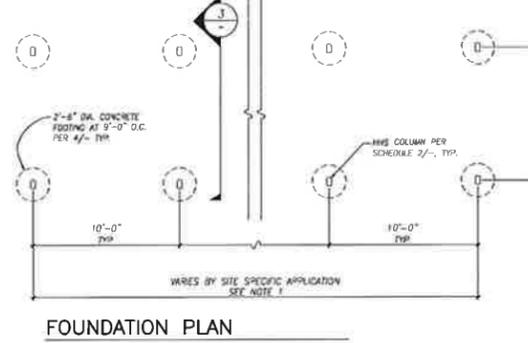
Overall length of shelter:  12'  14'  16'  18'  20'

Shelter roof height:  8'  10'  12'  14'  16'  18'  20'

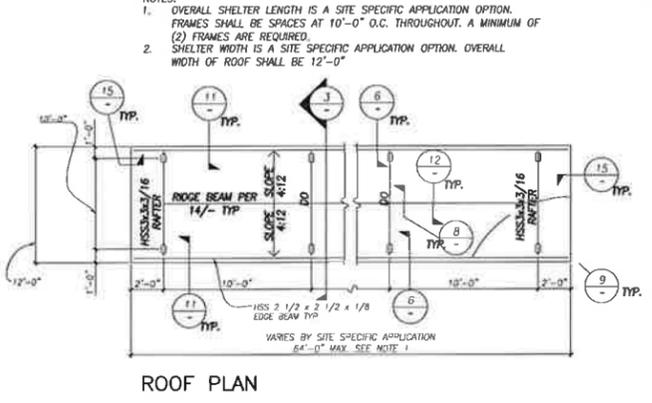
Concrete slab or asphalt paving (by other) over footings?  YES  NO

Soil compaction?  YES  NO

Aluminum "p" plate in roof wells for bird control?  YES  NO



**FOUNDATION PLAN**  
NO SCALE



**ROOF PLAN**

**FOUNDATION AND ROOF PLANS**  
1/4" = 1'-0"

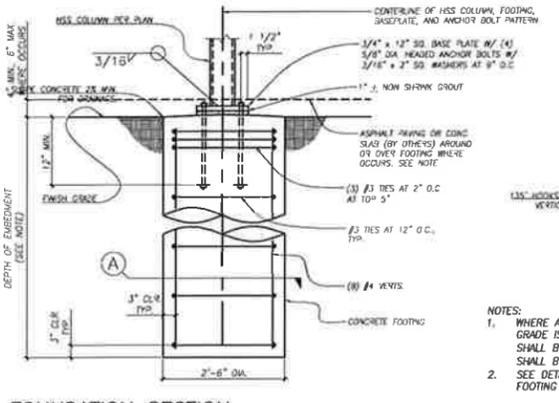
EAVE HEIGHT	REQUIRED COLUMN SIZE
7'-6" TO 10'	HSS5X3X3/16
>10' TO 12'	HSS5X4X3/16

NOTES:  
1. EAVE HEIGHT IS A SITE SPECIFIC APPLICATION OPTION.  
2. REQUIRED COLUMN SIZE VARIES BASED ON EAVE HEIGHT.

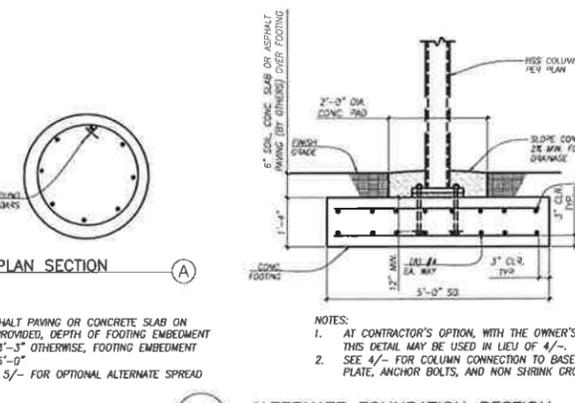
**COLUMN AND FOOTING SCHEDULE**  
NO SCALE

**BUILDING SECTION**  
1/4" = 1'-0"

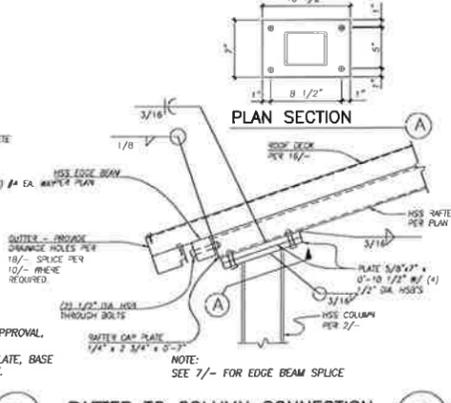
NOTE: ALL STRUCTURAL COMPONENTS ARE A DEFERRED APPROVAL. MANUFACTURE SHALL SUBMIT STAMPED STRUCTURAL PLANS.



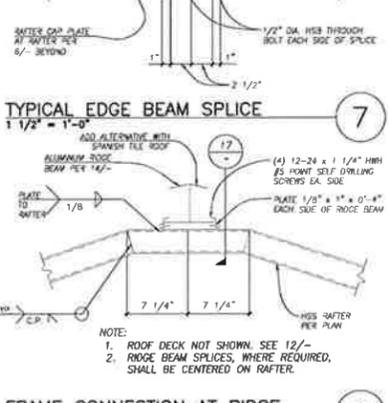
**FOUNDATION SECTION**  
3/4" = 1'-0"



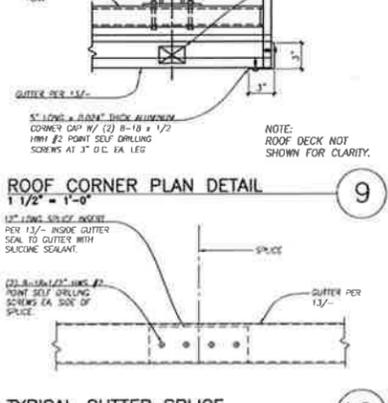
**ALTERNATE FOUNDATION SECTION**  
3/4" = 1'-0"



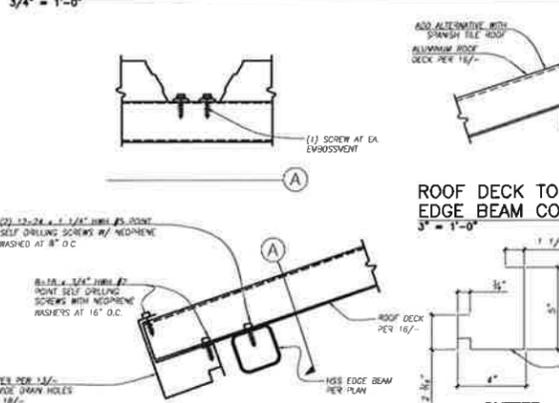
**RAFTER TO COLUMN CONNECTION**  
1 1/2" = 1'-0"



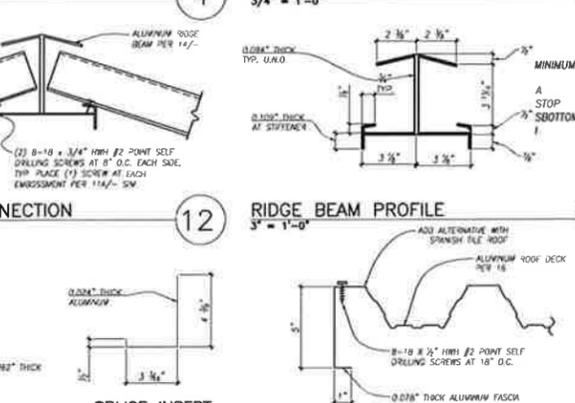
**FRAME CONNECTION AT RIDGE**  
1 1/2" = 1'-0"



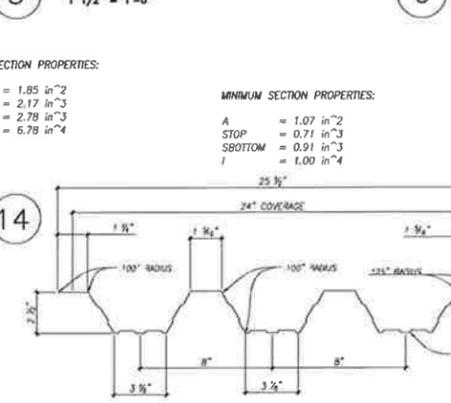
**TYPICAL GUTTER SPLICE**  
1 1/2" = 1'-0"



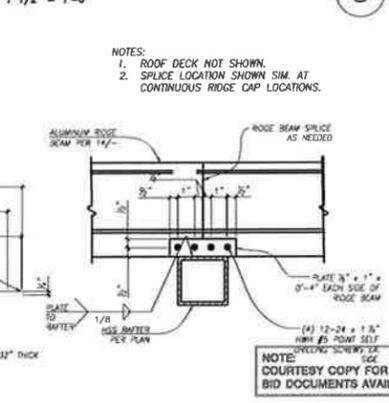
**ROOF DECK TO EDGE BEAM CONNECTION**  
3" = 1'-0"



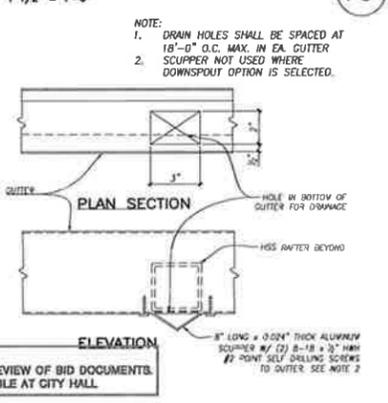
**GUTTER AND SPLICE INSERT PROFILES**  
3" = 1'-0"



**RIDGE BEAM PROFILE**  
3" = 1'-0"

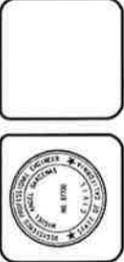


**INTERLOCKING ROOF DECK PROFILE**  
3" = 1'-0"



**GUTTER DRAIN HOLES**  
3" = 1'-0"

NO.	REVISION	DATE	DESCRIPTION



APPROVED BY: *[Signature]*  
DATE: 6/7/20  
MODEL: A. BACENAS  
CITY: ARVIN, CA

3000 CALIFORNIA AVE.  
SUITE 270  
ARVIN, CA 93203  
TEL: (818) 946-8000  
FAX: (818) 946-8007  
WWW.QUADKNOPF.COM



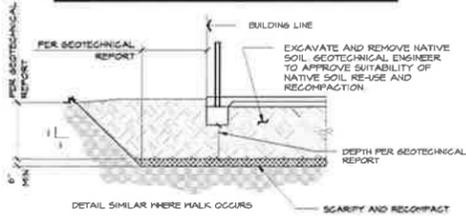
PROJECT: PLAN NO. 1  
CITY OF ARVIN  
200 CAMDEN DRIVE  
ARVIN, CA 93203  
(818) 946-3124

NO.	DATE

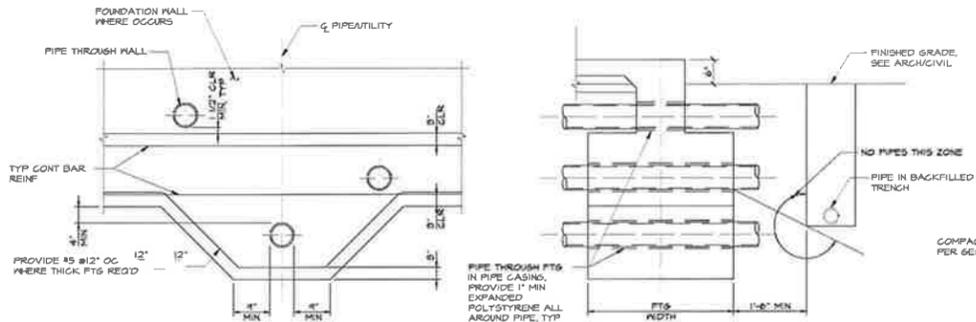
FILE NO: A150165  
FILE NAME: A150165.S301  
SCALE: AS NOTED  
SHEET NO: S 301



- NOTES:**
1. REMOVE AND STRIP ALL SURFACE ORGANIC MATERIAL.
  2. EXCAVATE AND REMOVE NATIVE SOIL INDICATED. SEE GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS.
  3. REVIEW WITH GEOTECHNICAL ENGINEER FOR ANY ADDITIONAL REMOVAL.
  4. SCARIFY, MOISTURE CONDITION AND RECOMPACT AT BOTTOM OF EXCAVATION PER ASTM D1527.
  5. RETURN EXCAVATED SOIL BY ENGINEERED FILL MATERIAL, WITH APPROVAL FROM GEOTECHNICAL ENGINEER, AND RECOMPACT PER GEOTECHNICAL REPORT.
  6. SEE GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS.

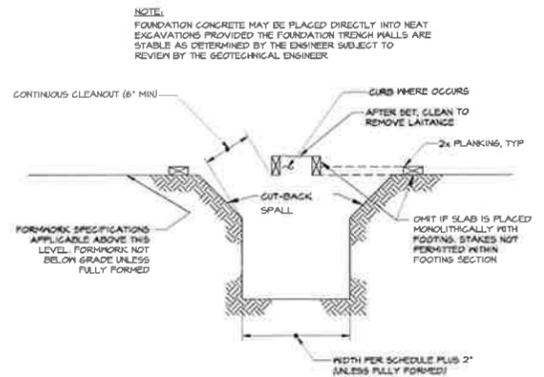
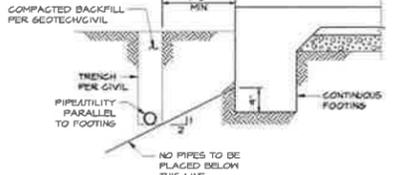


**1 OVEREXCAVATION DETAIL**  
NTS

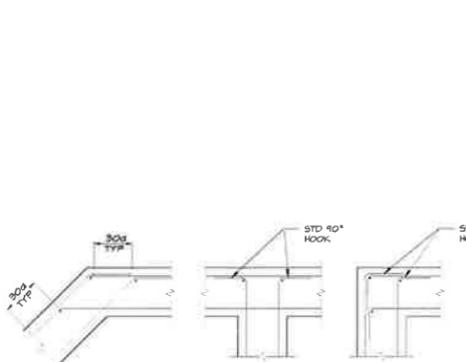


**2 PIPE/UTILITY PERPENDICULAR TO FOOTING**  
3/4" = 1'-0"

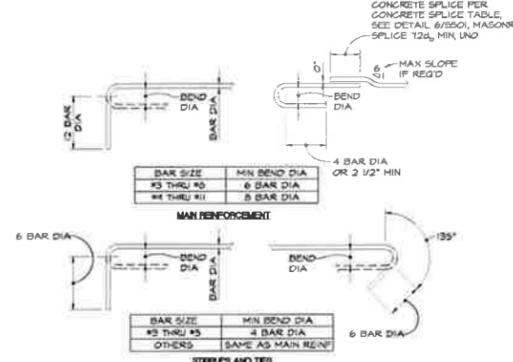
**3 PIPES PARALLEL TO FOOTING**  
3/4" = 1'-0"



**4 FOUNDATION FORMWORK**  
1" = 1'-0"



**5 FOOTING WALL INTERSECTION**  
3/4" = 1'-0"



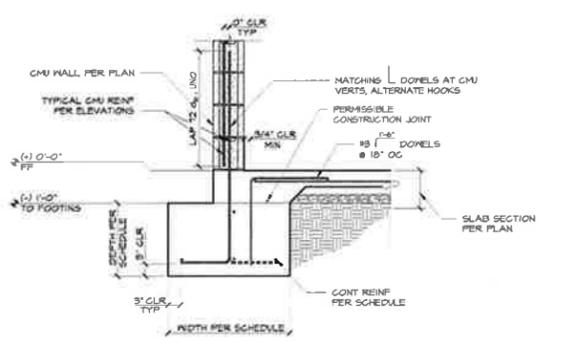
**6 TYPICAL BAR BENDS**  
3/4" = 1'-0"

BAR SIZE	LAP CLASS	$f_c = 3,000 \text{ psi}$				$f_c = 4,000 \text{ psi}$			
		TOP BARS		OTHER BARS		TOP BARS		OTHER BARS	
		CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2
#3	B	26	42	22	32	24	36	18	26
#4	B	37	56	34	43	32	49	28	37
#5	B	47	70	46	54	40	60	37	47
#6	B	56	84	53	64	46	72	41	56
#7	B	67	102	63	74	50	86	54	67
#8	B	78	124	72	87	60	102	62	78
#9	B	89	151	81	107	71	126	72	89
#10	B	100	181	93	136	82	153	81	100

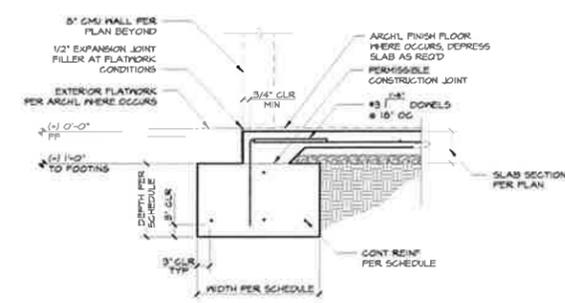
**CONCRETE LAP SPlice LENGTHS**

1. ALL LENGTHS ABOVE ARE IN INCHES.
2. CASES 1 AND 2, WHICH DEPEND ON THE TYPE OF STRUCTURAL ELEMENT, CONCRETE COVER AND THE CENTER-TO-CENTER SPACING OF THE BARS, ARE DEFINED AS:  
BEAMS OR COLUMNS: CASE 1: COVER AT LEAST 1.0 d AND C-C SPACING AT LEAST 2.0 d. CASE 2: COVER LESS THAN 1.0 d OR C-C SPACING LESS THAN 2.0 d.  
ALL OTHERS: CASE 1: COVER AT LEAST 1.0 d AND C-C SPACING AT LEAST 3.0 d. CASE 2: COVER LESS THAN 1.0 d OR C-C SPACING LESS THAN 3.0 d.
3. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
4. FOR LIGHTWEIGHT AGGREGATE CONCRETE, MULTIPLY TABULATED VALUES BY 1.3.
5. FOR EPOXY-COATED BARS, MULTIPLY THE TABULATED VALUES BY ONE OF THE FOLLOWING:  
CONCRETE COVER AND SPACING: TOP BARS 1.7(1.3 = 1.31), OTHER BARS 1.30.  
COVER: 3.0 d AND C-C SPACING: 7.0 d.

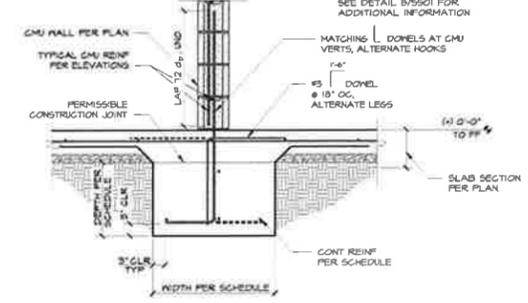
**7 CONCRETE LAP SPlice LENGTHS**  
NTS



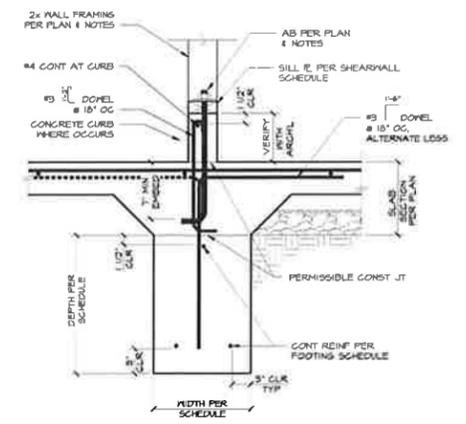
**8 TYP CMU WALL FOOTING**  
3/4" = 1'-0"



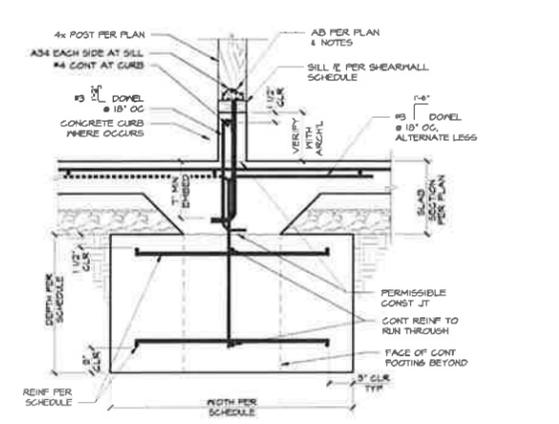
**9 CMU WALL FOOTING AT OPENING**  
3/4" = 1'-0"



**10 TYP INTERIOR CMU WALL FOOTING**  
3/4" = 1'-0"



**11 INTERIOR CONTINUOUS FOOTING**  
1 1/2" = 1'-0"



**12 INTERIOR PAD FOOTING**  
1 1/2" = 1'-0"

NOTE: COURTESY COPY FOR REVIEW OF BID DOCUMENTS. BID DOCUMENTS AVAILABLE AT CITY HALL.

REVISIONS

NO.	DATE	DESCRIPTION

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

PROJECT: ARVIN RESIDENTIAL PROJECT ENGINEER: \_\_\_\_\_ 6/7/00

DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_

SCALE: AS NOTED

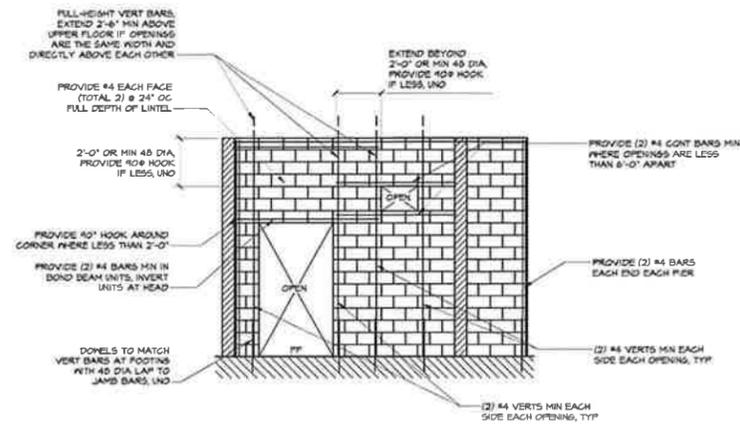
SHEET NO: **S501**

CITY OF ARVIN  
111 WEST 1ST STREET  
ARVIN, CA 93203  
(559) 834-3134

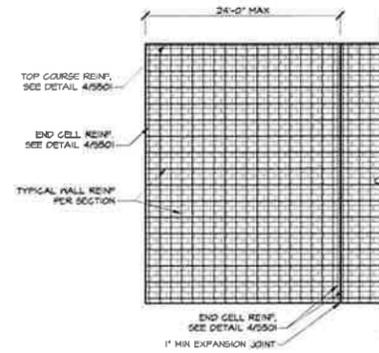
GARDEN IN THE SUN PARK  
SUB TITLE

QUAD KNOPF ENGINEERING  
1000 CALIFORNIA AVE  
MANTOLONGUO, CA 95959  
(530) 938-7500  
WWW.QUADKNOPF.COM

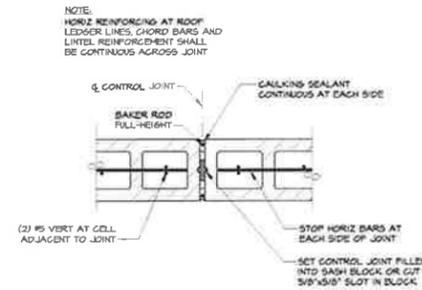
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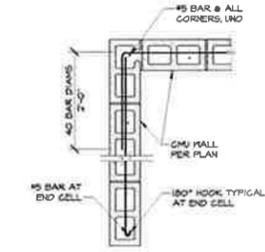
1 TYPICAL CMU WALL  
NTS



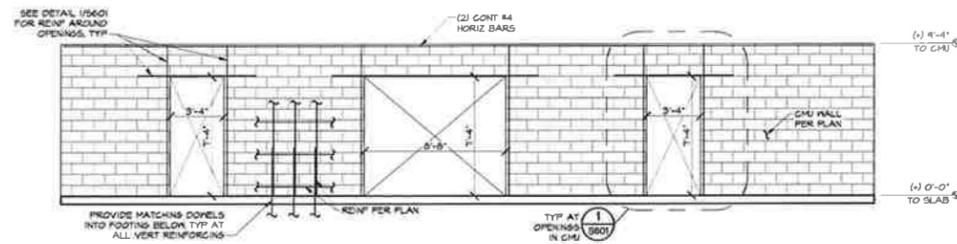
2 CMU CONTROL JOINT  
1/2" = 1'-0"



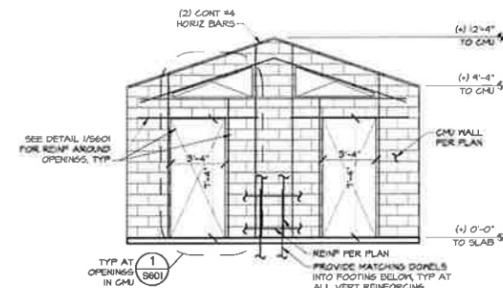
3 CMU CONTROL JOINT  
1/2" = 1'-0"



4 CMU WALL CORNER  
3/4" = 1'-0"



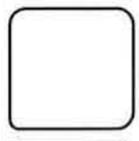
5 CMU WALL ELEVATION  
1/4" = 1'-0"



6 CMU WALL ELEVATION  
1/4" = 1'-0"

NOTE: COURTESY COPY FOR REVIEW OF BID DOCUMENTS. BID DOCUMENTS AVAILABLE AT CITY HALL

NO.	REVISION	DATE	BY	DESCRIPTION



APPROVED BY:  
DATE: 07/00  
MICHAEL A. BOREKAS  
PROJECT ENGINEER

APPROVED BY:  
DATE: 07/00  
MICHAEL A. BOREKAS  
PROJECT ENGINEER

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MICHAEL A. BOREKAS  
PROJECT ENGINEER

APPROVED BY:  
DATE: 07/00  
MICHAEL A. BOREKAS  
PROJECT ENGINEER

TABLE 2304.9.1 FASTENING SCHEDULE		
CONNECTION	FASTENING <sup>a</sup>	LOCATION
1. Joist to sill or girder	3-6d common (2 1/2" x 0.131") 1-3" x 6-11 1/2" nails	overall
2. Bridging to joist	2-8d common (2 1/2" x 0.131") 2-3" x 6-11 1/2" nails	overall each end
3. 1" x 6" subfloor or less to joist	2-8d common (2 1/2" x 0.131")	face nail
4. Wider than 1" x 6" subfloor to joist	3-8d common (2 1/2" x 0.131")	face nail
5. 2" subfloor to joist or girder	2-16d common (3 1/2" x 0.162")	blind nail face nail
6. Sole plate to joist or blocking	16d (3 1/2" x 0.131") at 16" o.c. 1-3" x 6-11 1/2" nails at 6" o.c.	typical face nail
7. Top plate to stud	2-16d common (3 1/2" x 0.162") 1-3" x 6-11 1/2" nails	end nail
8. Stud to wall plate	1-8d common (2 1/2" x 0.131") 4-3" x 6-11 1/2" nails	overall
9. Double studs	2-16d common (3 1/2" x 0.162") 1-3" x 6-11 1/2" nails at 6" o.c.	face nail
10. Double top plates	16d (3 1/2" x 0.131") at 16" o.c. 1-3" x 6-11 1/2" nails at 12" o.c.	typical face nail
11. Blocking between joists or rafters to top plate	3-8d common (2 1/2" x 0.131") 1-3" x 6-11 1/2" nails	overall
12. Rink joist to top plate	8d (2 1/2" x 0.131") at 6" o.c. 1-3" x 6-11 1/2" nails at 6" o.c.	overall
13. Top plates, laps and intersections	2-16d common (3 1/2" x 0.162") 1-3" x 6-11 1/2" nails	face nail
14. Continuous header, two girders	16d common (3 1/2" x 0.162")	16" o.c. along edge
15. Ceiling joists to plate	1-8d common (2 1/2" x 0.131") 1-3" x 6-11 1/2" nails	overall
16. Continuous header to stud	1-8d common (2 1/2" x 0.131")	overall
17. Ceiling joists laps over partition (see Section 2308.10.4.1, Table 2308.10.4.1)	1-16d common (3 1/2" x 0.162") minimum Table 2308.10.4.1	face nail
18. Ceiling joists to parallel rafters (see Section 2308.10.4.1, Table 2308.10.4.1)	1-16d common (3 1/2" x 0.162") minimum, Table 2308.10.4.1	face nail
19. Rafter to plate (see Section 2308.10.1, Table 2308.10.1)	3-8d common (2 1/2" x 0.131") 1-3" x 6-11 1/2" nails	overall
20. 1" diagonal brace to each stud and plate	2-8d common (2 1/2" x 0.131") 1-3" x 6-11 1/2" nails	face nail
21. 1" x 8" sheathing to each bearing	3-8d common (2 1/2" x 0.131")	face nail
22. Wider than 1" x 8" sheathing to each bearing	4-8d common (2 1/2" x 0.131")	face nail
23. Built-up carrier studs	16d common (3 1/2" x 0.162") 1-3" x 6-11 1/2" nails	21" o.c. 16" o.c.
24. Built-up girder and beams	2-16d common (3 1/2" x 0.162") 1-3" x 6-11 1/2" nails at 24" o.c.	face nail at top and bottom face nail at opposite ends
25. 2" planks	16d common (3 1/2" x 0.162")	at each bearing
26. Ceiling to rafter	1-16d common (3 1/2" x 0.162") 1-3" x 6-11 1/2" nails	face nail
27. Jack rafter to hip	2-16d common (3 1/2" x 0.162") 1-3" x 6-11 1/2" nails	face nail
28. Roof rafter to 2-by ridge beam	2-16d common (3 1/2" x 0.162") 1-3" x 6-11 1/2" nails	face nail
29. Joist to band joist	3-16d common (3 1/2" x 0.162") 1-3" x 6-11 1/2" nails	face nail
30. Ledger strip	1-16d common (3 1/2" x 0.162") 1-3" x 6-11 1/2" nails	face nail at each joist
31. Wood structural panels and panel sheath <sup>b</sup> Soffit over roof end wall sheathing (to framing)	2" nailless 6d <sup>c</sup> 2 1/2" x 0.113" nail <sup>d</sup> 1 1/2" 16 gage <sup>e</sup> 3/4" to 1" 8d <sup>f</sup> 1/2" to 1" 10d or 8d <sup>g</sup> 3/4" nail less 6d <sup>h</sup> 1/2" to 1" 8d <sup>i</sup> 1" to 1 1/2" 10d or 8d <sup>j</sup>	
32. Single floor (or combination outdoor- underlayment to framing)	2" or less 6d <sup>c</sup> 3/4" No. 11 gage roofing nail <sup>k</sup> 1/2" No. 11 gage roofing nail <sup>k</sup> 3/4" No. 11 gage roofing nail <sup>k</sup> 1" No. 11 gage roofing nail <sup>k</sup>	
33. Panel siding (to framing)	2" or less 6d <sup>c</sup> 3/4" No. 11 gage roofing nail <sup>k</sup> 1/2" No. 11 gage roofing nail <sup>k</sup> 3/4" No. 11 gage roofing nail <sup>k</sup> 1" No. 11 gage roofing nail <sup>k</sup>	
34. Fiberglass sheathing <sup>l</sup>	2" or less 6d <sup>c</sup> 3/4" No. 11 gage roofing nail <sup>k</sup> 1/2" No. 11 gage roofing nail <sup>k</sup> 3/4" No. 11 gage roofing nail <sup>k</sup> 1" No. 11 gage roofing nail <sup>k</sup>	
35. Interior paneling	1/4" 4d <sup>m</sup> 1/2" 6d <sup>n</sup>	

For S1 1 inch 25.4 mm

a. Common or box nails are permitted to be used except where otherwise stated

b. Nails spaced at 6 inches on center at edges, 12 inches at intermediate supports except e. inches at supports where spans are 18 inches or more. For nailing of wood structural panels and panel sheathing, diagonal bracing and shear walls, refer to Section 2302. Nails for wall sheathing are permitted to be common, box or casing

c. Common or deformed shank (6d - 2" x 0.113", 8d - 2 1/2" x 0.131", 10d - 3" x 0.148")

d. Common (6d - 2" x 0.113", 8d - 2 1/2" x 0.131", 10d - 3" x 0.148")

e. Deformed shank (6d - 2" x 0.113", 8d - 2 1/2" x 0.131", 10d - 3" x 0.148")

f. Common or deformed shank (6d - 2" x 0.113", 8d - 2 1/2" x 0.131", 10d - 3" x 0.148") or casing (6d - 2" x 0.113", 8d - 2 1/2" x 0.131") nail

g. Fasteners spaced 3 inches on center at exterior edges and 6 inches on center at intermediate supports, when used as structural sheathing. Spacing shall be 6 inches on center on the edges and 12 inches on center at intermediate supports for nonstructural applications

h. Common or deformed shank (6d - 2" x 0.113", 8d - 2 1/2" x 0.131", 10d - 3" x 0.148") or casing (6d - 2" x 0.113", 8d - 2 1/2" x 0.131") nail

i. Common or deformed shank (6d - 2" x 0.113", 8d - 2 1/2" x 0.131", 10d - 3" x 0.148") or casing (6d - 2" x 0.113", 8d - 2 1/2" x 0.131") nail

j. Common or deformed shank (6d - 2" x 0.113", 8d - 2 1/2" x 0.131", 10d - 3" x 0.148") or casing (6d - 2" x 0.113", 8d - 2 1/2" x 0.131") nail

k. Panel supports at 24 inches. Casing or finish nails spaced 6 inches on panel edges, 12 inches at intermediate supports

l. For roof sheathing applications. 8d nails (2 1/2" x 0.131") are the minimum required for wood structural panels

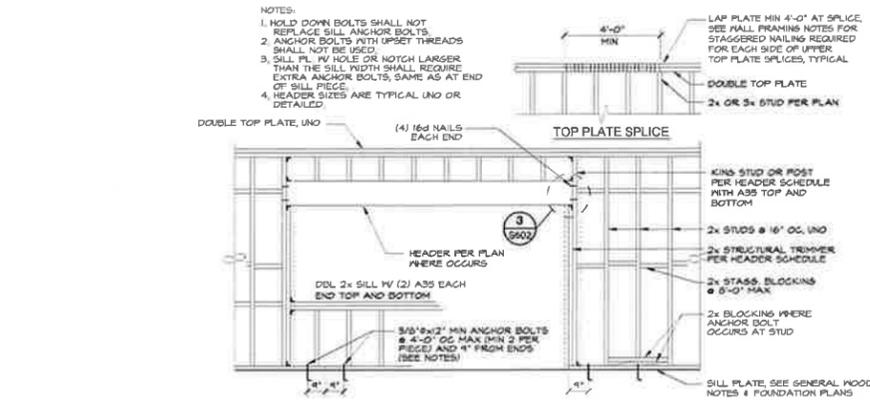
m. Staples shall have a minimum crown width of 1/4 inch

n. For wall sheathing applications. Fasteners spaced 4 inches on center at edges, 8 inches at intermediate supports

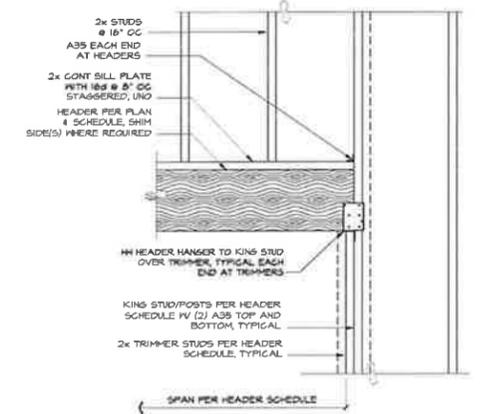
o. Fasteners spaced 4 inches on center at edges, 8 inches at intermediate supports for soffits and wall sheathing and 3 inches on center at edges, 6 inches at intermediate supports for roof sheathing

p. Fasteners spaced 4 inches on center at edges, 8 inches at intermediate supports

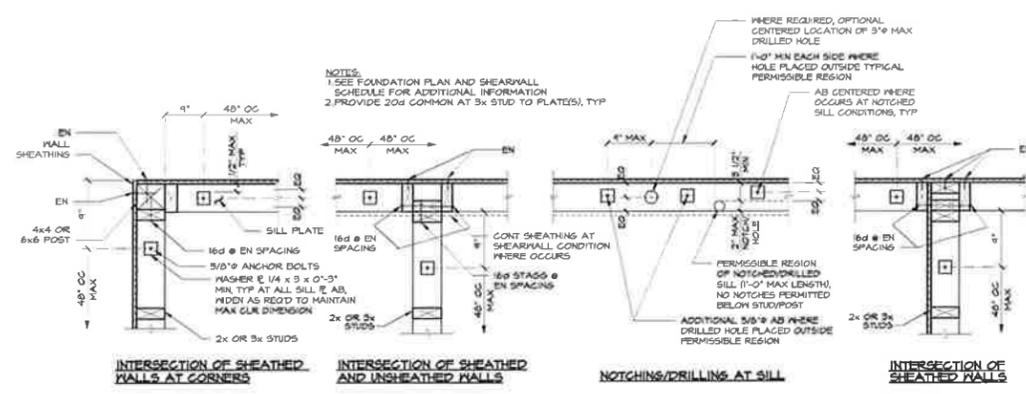
**1 FASTENING SCHEDULE**  
NTS



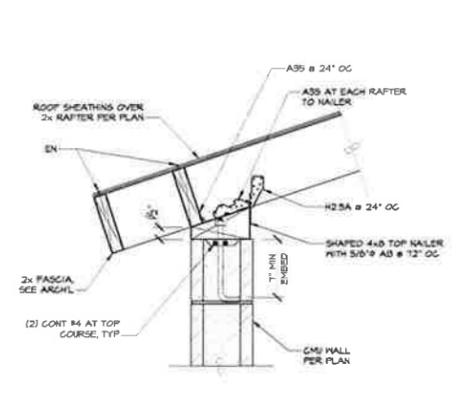
**2 TYPICAL WALL FRAMING**  
1" x 1'-0"



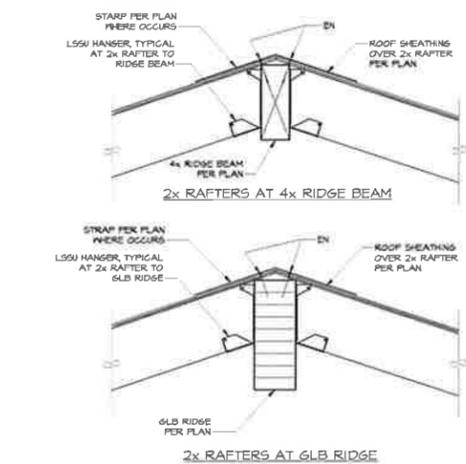
**3 HEADER DETAIL**  
NTS



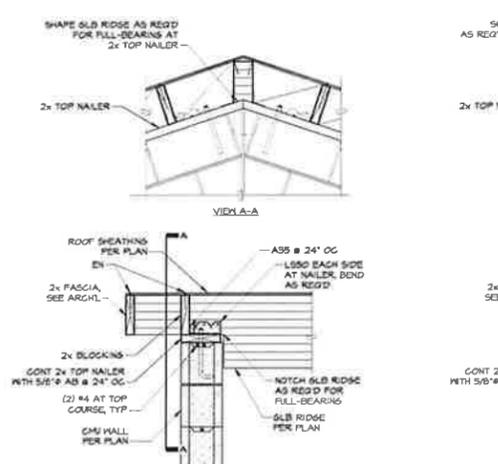
**4 TYPICAL WALL FRAMING**  
1" x 1'-0"



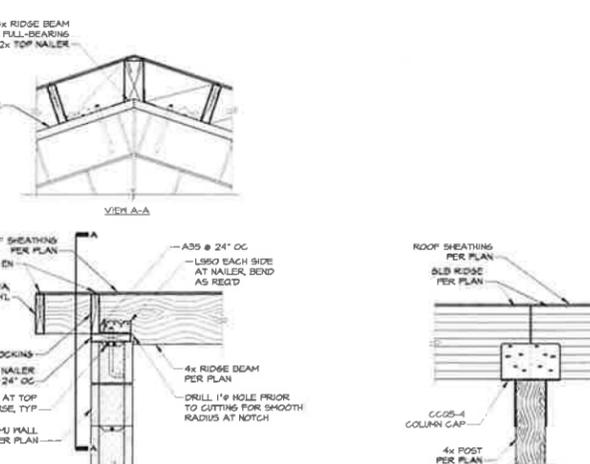
**5 SLOPED RAFTER AT CMU**  
1'-0\"/>



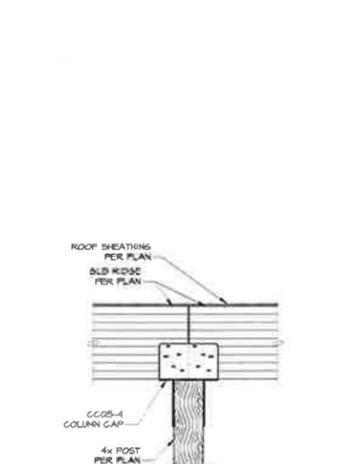
**6 RAFTERS AT RIDGE BEAMS**  
1'-0"



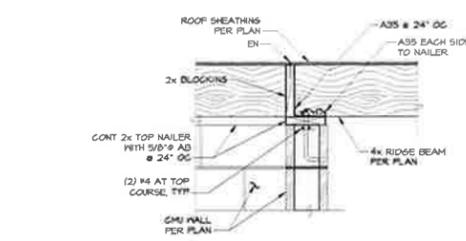
**7 GLB RIDGE BEAM AT CMU**  
1" x 1'-0"



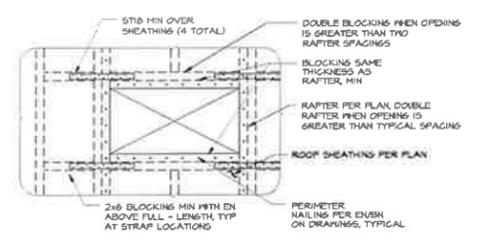
**8 4x RIDGE BEAM AT CMU**  
1" x 1'-0"



**9 GLB RIDGE BEAM POST**  
1" x 1'-0"



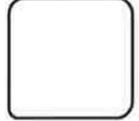
**10 4x BEAM AT INTERIOR CMU**  
1" x 1'-0"



**11 TYPICAL PENETRATION AT RAFTERS**  
1" x 1'-0"

NOTE: COURTESY COPY FOR REVIEW OF BID DOCUMENTS. BID DOCUMENTS AVAILABLE AT CITY HALL.

DATE	BY

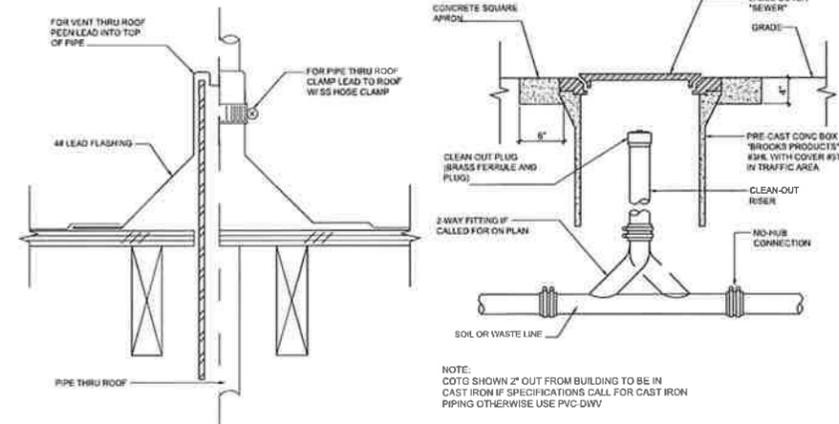
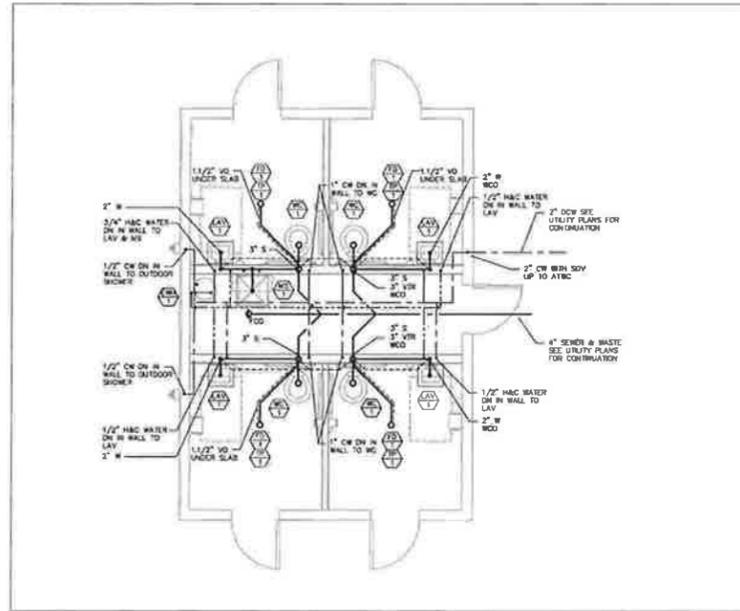


APPROVED BY: MICHAEL A. BACCIAS, PROJECT ENGINEER, 6/7/20

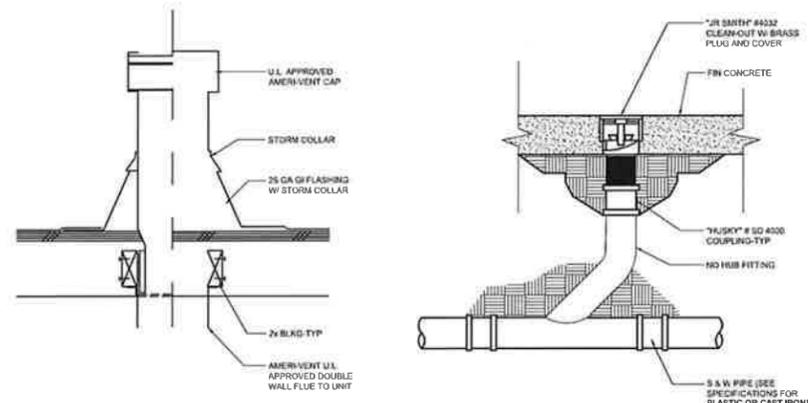


APPROVED BY: CITY OF ARVIN, GARDEN IN THE SUN PARK SUB TITLE

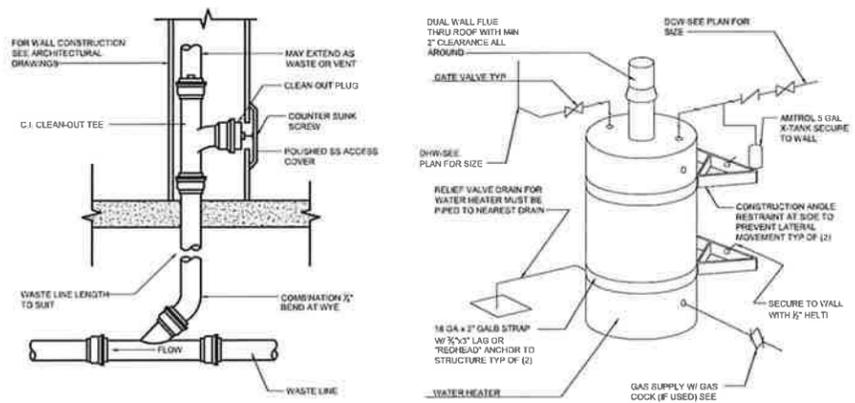
DATE	07-21-19
SCALE	AS NOTED
SHEET NO.	S602



1 VENT/PIPE THRU ROOF-TYP :3" 2 CLEAN-OUT TO GRADE :1"



3 FLUE THRU ROOF :1.1/2" 4 FLOOR CLEAN-OUT-TYP :1"



5 WALL CLEAN-OUT-TYP :1" 6 PIPING AT WATER HEATER-WH/1 :NTS

NOTE: COURTESY COPY FOR REVIEW OF BID DOCUMENTS. BID DOCUMENTS AVAILABLE AT CITY HALL.



REVISION	DATE	DESCRIPTION



APPROVED BY: *Michael A. Bacenas*  
 DATE: 6/7/00  
 MICHAEL A. BACENAS  
 CITY ENGINEER

PREPARED BY: **Quad Knopf**  
 1400 N. GARDEN AVENUE  
 SUITE 200  
 ANAHEIM, CA 92805  
 TEL: (714) 944-9000  
 FAX: (714) 944-9001  
 WWW.QUADKNOPF.COM

APPROVAL PLAN FOR  
**CITY OF ARVIN**  
 300 CAMDEN BLVD  
 ARVIN, CA 93203  
 (661) 834-3134

**GARDEN IN THE SUN PARK  
 RESTROOM BUILDING PLUMBING PLAN**

PLUM DATE: July 1, 2015  
 JOB NO: A150155  
 FILE NAME: A150155-P101  
 SCALE: AS SHOWN  
 SHEET NO: P 101