File index no.:\_

#### ADDENDUM 1

### tam+cz

☐ ARCHITECTURE • PLANNING • INTERIORS

5650 N. FRESNO ST. SUITE #110 FRESNO, CA 93710

www.tamcz-architects.com

Tel. (559) 435-4750 Fax (559) 435-4774

May 9, 2017

#### FRESNO CHAFFEE ZOO WARTHOG EXHIBIT

#### ADDENDUM NO. 1

The following changes, omissions, additions, and alterations in, on, and to, the Contract Documents will apply to proposals made for the execution of the various parts of the work affected thereby. Careful note of this Addendum shall be taken by all parties of interest so that the proper allowance may be made in all computations, estimates, and contracts, and all trades affected shall be fully advised in the performance of the work which will be required by them. In cases of conflict between Drawings, Specifications, and this Addendum, this Addendum shall govern. Attention is directed to the Addendum receipt blank in the Form of Proposal.

#### **ITEMS & RFI RESPONSES:**

- 1. ADD SPECIFICATION SECTION 08 6223 TUBULAR SKYLIGHTS TO PROJECT MANUAL.
- 2. ADD SPECIFICATION SECTION 07 4213 –METAL WALL PANELS TO PROJECT MANUAL. RESPONSE TO RFI #1 NOLTE SHEET METAL.
- 3. ADD CHANGES TO ROCK WALL HEIGHT SHOWN ON EXHIBIT L5.1A, SEE ATTACHED 8-1/2" X 11" DRAWING.
- 4. REPLACE SHEET E1 WITH ATTACHED REVISED SHEET E1. SITE ELECTRICAL PLAN HAS BEEN REVISED TO SHOW BOOSTER PUMP LOCATION.
- 5. REPLACE SHEET E2 WITH ATTACHED REVISED SHEET E2. PANEL SCHEDULE HAS BEEN REVISED TO INCLUDE BOOSTER PUMP.
- 6. REPLACE SHEET L14.1 WITH ATTACHED REVISED SHEET L14.1 . IRRIGATION SCHEDULE HAS BEEN REVISED TO SHOW BOOSTER PUMP.
- 7. REPLACE SHEET L15.1 WITH ATTACHED REVISED SHEET L15.1 . SITE IRRIGATION PLAN HAS BEEN REVISED TO SHOW BOOSTER PUMP LOCATION.
- 8. REPLACE SHEET L16.1 WITH ATTACHED REVISED SHEET L16.1. SITE IRRIGATION DETAILS HAS BEEN REVISED TO SHOW BOOSTER PUMP.
- 9. ADD ATTACHED WATERTRONICS BOOSTER PUMP DESIGN FORM AS SUPPLEMENTAL INFORMATION TO BOOSTER PUMP DESIGN.

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#### FRESNO CHAFFEE ZOO WARTHOG EXHIBIT

#### ADDENDUM NO. 1 CONTINUED

- 10. ADD ATTACHED BOOSTER PUMP CUT SHEET AS SUPPLEMENTAL INFORMATION.
- 11. ZUMWALT RFI #001 RESPONSE ATTACHED. OMIT ALL REFERENCES TO DOOR HARDWARE TYPES ON SHEET A4, TYPICAL DOOR HARDWARE NOTES.
  REPLACE EXTERIOR DOOR 101 HARDWARE WITH HARDWARE LISTED:

6 EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1 EA	POWER TRANSFER	EPT-10	626	VON
1 EA	PANIC DEVICE	99EO	626	VON
1 EA	ELEC PANIC DEVICE	EL99-L	626	VON
1 EA	RIM CYLINDER	20-757 XP	626	SCH
2 EA	SURFACE CLOSER	4040XP SHCUSH	689	LCN
2 EA	KICKPLATE	8400 10 X 1" LDW	630	IVE
1 SET	SEALS	2525B	BLK	NGP
1 EA	THRESHOLD	PER DETAILS	AL	NGP
1 EA	KEYED REMOV	KR4964		VON
	MULLION			
1 EA	MORTISE CYL	20-763XP	626	SCH
1 EA	POWER SUPPLY	PS902		VON
		CARD READERS BY OTHERS		

#### Padlock Hardware as listed:

Schlage KS23 with interchangeable primus core. Keyed to A22

- 12. BMY RFI #1 : SEE RFI #1 WITH ARCHITECT'S RESPONSES ATTACHED.
  FOR ADDITIONAL INFORMATION SEE DESIGN LAB 252 RFI RESPONSES 1-11 ON ATTACHED DOCUMENT.
- 13. BMY RFI #2: SEE RFI#2 RESPONSES ATTACHED.
- 14. ATASCADERO GLASS RFI #001: SEE RFI #001 RESPONSES ATTACHED.

15.



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#### FRESNO CHAFFEE ZOO WARTHOG EXHIBIT

#### ADDENDUM NO. 1 CONTINUED

- 16. NOLTE SHEET METAL RFI- SEE ATTACHED SHEET METAL SPECIFICATION TO BE ADDED TO THE PROJECT MANUAL
- 17. NELSON AND SONS RFI OMIT LANGUAGE IN ATTACHMENT 'B' OF SPECIFICATION, REMOVE ALL TEXT REQUIRING PREQUALIFICATION.

"Per Attachment B of the Specifications for the Fresno Chaffee Zoo Warthog Exhibit bid # 2.8 it states that the General Contractor must be previously prequalified."

This project does not require Contractor's to be prequalified with FCZ in order to bid on the project.

#### SECTION 08 6223 TUBULAR SKYLIGHTS

### **PART 1 GENERAL**

#### 1.01 SECTION INCLUDES

- A. Tubular skylights, consisting of skylight dome, reflective tube, and diffuser assembly; configuration as indicated on the drawings.
- B. Accessories.

#### 1.02 RELATED REQUIREMENTS

A. Section 07 5300 - Elastomeric Membrane Roofing: Flashing-in of skylight base.

#### 1.03 REFERENCE STANDARDS

- A. ASTM B209 Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2010.
- B. ASTM B209M Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate [Metric]; 2010.
- C. ASTM D635 Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position; 2010.
- D. ASTM D1929 Standard Test Method for Determining Ignition Temperature of Plastics; 2012.
- E. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials; 2012.
- F. ASTM E108 Standard Test Methods for Fire Tests of Roof Coverings; 2011.
- G. ASTM E283 Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen; 2004 (Reapproved 2012).
- H. ASTM E330 Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference; 2002 (Reapproved 2010).
- I. ASTM E331 Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference; 2000 (Reapproved 2009).
- J. UL 790 Standard for Standard Test Methods for Fire Tests of Roof Coverings; Current Edition, Including All Revisions.

#### 1.04 SUBMITTALS

- A. Product Data: Manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
  - 3. Installation methods.
- B. Shop Drawings.

#### 1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Engaged in manufacture of tubular skylights for minimum of 10 years.

#### 1.06 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

### PART 2 PRODUCTS

#### 2.01 MANUFACTURERS

- A. DayLite, Natural Lighting Technologies: www.dayliteco.com.
- B. Solatube International, Inc: www.solatube.com.
- C. Tubular Skylight Inc: <a href="https://www.tubular-skylight.com">www.tubular-skylight.com</a>.

#### 2.02 TUBULAR SKYLIGHTS

- A. Tubular Skylights: Transparent roof-mounted skylight dome and curb, reflective tube, and ceiling level diffuser assembly, transferring sunlight to interior spaces.
  - 1. All components made and assembled by one manufacturer.
  - 2. Design to withstand the following loads without breakage or permanent damage to any parts, when tested in accordance with ASTM E330:
    - a. Positive and negative wind load of 10 psf (475 Pa).
    - b. No permanent deflection in excess of 0.2 percent of span.
    - c. Live load of 100 psf (4.8 kPa) on dome with safety factor of 3.
  - 3. Air Infiltration: Maximum 0.10 cfm per foot (0.15 L/s/m) of crack length at 6.24 psf (299 Pa) pressure differential when tested in accordance with ASTM E283.
  - 4. Water Resistance: No uncontrolled water leakage at 6.24 psf (299 Pa) pressure differential with water rate of 5 gallons/h/sf (206 L/h/sq m), when tested in accordance with ASTM E331; design to ensure that water will not accumulate inside assembly.
  - 5. Thermal Movement: Fabricate to allow for thermal movement resulting from temperature differential from minus 30 to 180 degrees F (minus 34 to 82 degrees C).
  - 6. Flammability: Non-metal parts complying with the following:
  - a. Roof-Top Components: Class B when tested in accordance with ASTM E108 or UL 790.
  - b. Self-Ignition Temperature: Greater than 650 degrees F (343 degrees C), when tested in accordance with ASTM D1929.
  - c. Smoke Developed Index: Maximum of 450, when tested in accordance with ASTM E84; or maximum rating of 75, when tested in accordance with ASTM D2843.

- d. Combustibility Light Transmitting Parts: Burning extent of 1 inch (25 mm) or less (ICC Class CC-1), when tested in accordance with ASTM D635 in the thickness intended for use.
- e. Combustibility Non-Light Transmitting Parts: Minimum 2.5 inches/min (64 mm/min) (ICC Class CC-2), when tested in accordance with ASTM D635.
- B. Roof Assemblies: Transparent, UV and impact resistant dome with flashing base supporting dome and top of tube.
  - 1. Glazing: Polycarbonate plastic, 0.125 inch (3.2 mm) minimum thickness.
  - 2. Low-Angled Sun Reflector: Concentric, light refracting etched lines, minimum 2 inches (51 mm) high, to improve light input when sun is low on horizon.
  - 3. Base: One piece, seamless, leak-proof flashing functioning as base support for dome and top of tube.
  - 4. Base Material: Sheet aluminum, ASTM B209 (ASTM B209M), 0.060 inch (1.5 mm) thick, minimum.
  - 5. Base Height: 4 inches
  - 6. Dome Ring: Attached to top of base section; 0.090 inch (2.3 mm) nominal thickness injection molded high impact ABS; to prevent thermal bridging between base flashing and tubing and channel condensed moisture out of tubing; weather seal of medium density pile weather stripping.
- C. Reflective Tube: ASTM B209 (ASTM B209M) aluminum sheet, thickness between 0.015 inch (0.4 mm) and 0.020 inch (0.5 mm).
  - 1. Interior Finish: Exposed interior surfaces of high reflectance specular finish; specular reflectance 92, total reflectance 95 percent.
  - 2. Tube Diameters: As indicated on the drawings.
- D. Diffuser Assemblies: Supporting light transmitting surface at bottom termination of tube, with compression seal to minimize condensation and bug or dirt infiltration.
  - 1. Ceiling Ring: Edge trim for ceiling opening; injection molded high impact ABS.
  - 2. Diffuser Trim: Edge and attachment trim for diffuser lens; injection molded high impact ABS.
  - 3. Lens: Flush frosted lens.
  - 4. Lens Material: Polycarbonate plastic
  - 5. Visible Light Transmission: Minimum 90 percent.
  - 6. Seal: Closed cell EPDM foam rubber

#### 2.03 ACCESSORIES

- A. Fasteners: Same material as metals being fastened, non-magnetic steel, non-corrosive metal of type recommended by manufacturer, or injection molded nylon.
- B. Joint Sealant: As specified in Section 07 9005...

# PART 3 EXECUTION 3.01 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

#### 3.02 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

#### 3.03 INSTALLATION

- A. Install in accordance with manufacturer's printed instructions.
- B. Seal joints exposed to weather using procedures specified in Section 07 9005.
- C. Conduct field test for water tightness; conduct water test in presence of Architect. Correct defective work and re-test until satisfactory.

#### **END OF SECTION**

#### SECTION 07 4213 METAL WALL PANELS

#### **PART 1 GENERAL**

#### 1.01 SECTION INCLUDES

A. Manufactured weathering steel panels for walls and soffits, with related flashings and accessory components.

#### 1.02 RELATED REQUIREMENTS

Χ.

#### 1.03 REFERENCE STANDARDS

#### 1.04 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.

B. Shop Drawings: Indicate dimensions, layout, joints, construction details, methods of anchorage.

#### 1.05 QUALITY ASSURANCE

A. Installer Qualifications: Company specializing in performing the work of this section

with minimum 5 years of experience.

#### **1.06 MOCK-UP**

A. Construct mock-up, 8 feet tall by 6 feet wide; include panel and soffit system, glazing, attachments to building frame, associated vapor retarder and air seal materials, weep drainage system, sealants and seals, related insulation, and panel joints in mock-up.

B. Mock-up may not remain as part of the Work.

#### 1.07 DELIVERY, STORAGE, AND HANDLING

A. Protect panels from accelerated weathering by removing or venting sheet plastic shipping wrap.

#### **PART 2 PRODUCTS**

#### 2.01 MANUFACTURERS

A. Western States Metal Roofing; Product 7/8" corrugated, Corten.

#### 2.02 MANUFACTURED METAL PANELS

- A. Wall Panel System: Factory fabricated prefinished metal panel system, site assembled.
  - 1. Provide exterior panels, soffit panels, and subgirt framing assembly.
  - 2. Design and size components to withstand dead and live loads caused by positive and negative wind pressure acting normal to plane of wall according to the 2013 CBC.
  - 3. Maximum Allowable Deflection of Panel: 1/90 of span.
  - 4. Movement: Accommodate movement within system without damage to components or deterioration of seals, movement within system; movement between system and perimeter components when subject to seasonal temperature cycling; dynamic loading and release of loads; and deflection of structural support framing.
  - 5. Drainage: Provide positive drainage to exterior for moisture entering or condensation occurring within panel system.
  - 6. Fabrication: Formed true to shape, accurate in size, square, and free from distortion or defects; pieces of longest practical lengths.
- B. Exterior Panels:
  - 1. Profile: Vertical; style as indicated.
  - 2. Side Seams: side lap sealed with mastic tape..
  - 3. Panel Width: 34 + inches.
- C. Soffit Panels:
  - 1. Profile: Style as indicated.
- D. Subgirts:
- E. Expansion Joints:
- F. Trim: Same material, thickness and finish as exterior sheets; brake formed to required profiles.
- G. Anchors: Galvanized steel or Stainless steel.

#### 2.03 ACCESSORIES

A. Fasteners: Manufacturer's standard type to suit application; with soft neoprene washers, koko brown cap.

#### **PART 3 EXECUTION**

#### 3.01 EXAMINATION

- A. Verify that building framing members are ready to receive panels.
- B. Verify that weather barrier has been installed over substrate completely and correctly.

#### 3.02 INSTALLATION

- A. Install panels on walls and soffits in accordance with manufacturer's instructions.
- B. Protect surfaces in contact with cementitious materials and dissimilar metals with bituminous paint. Allow to dry prior to installation.
- C. Fasten panels to structural supports; aligned, level, and plumb.
- D. Locate joints over supports. Lap panel ends minimum 2 inches (50 mm).
- E. Seal and place gaskets to prevent weather penetration. Maintain neat appearance.

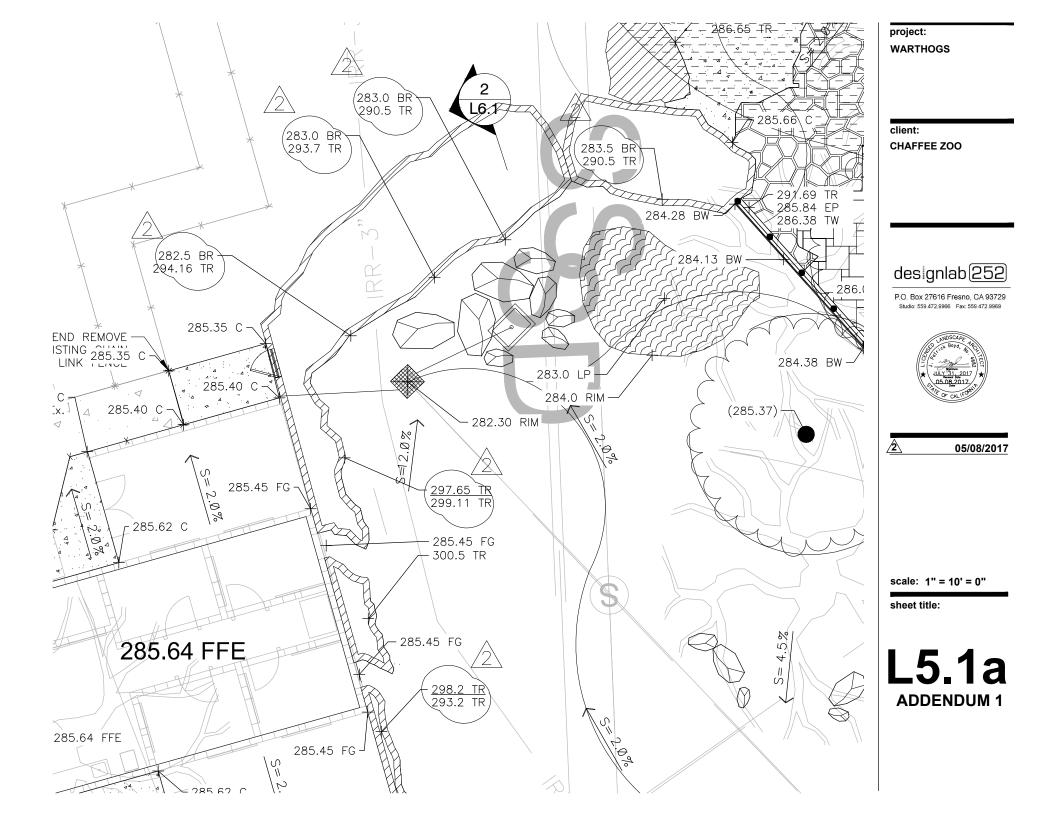
#### 3.03 TOLERANCES

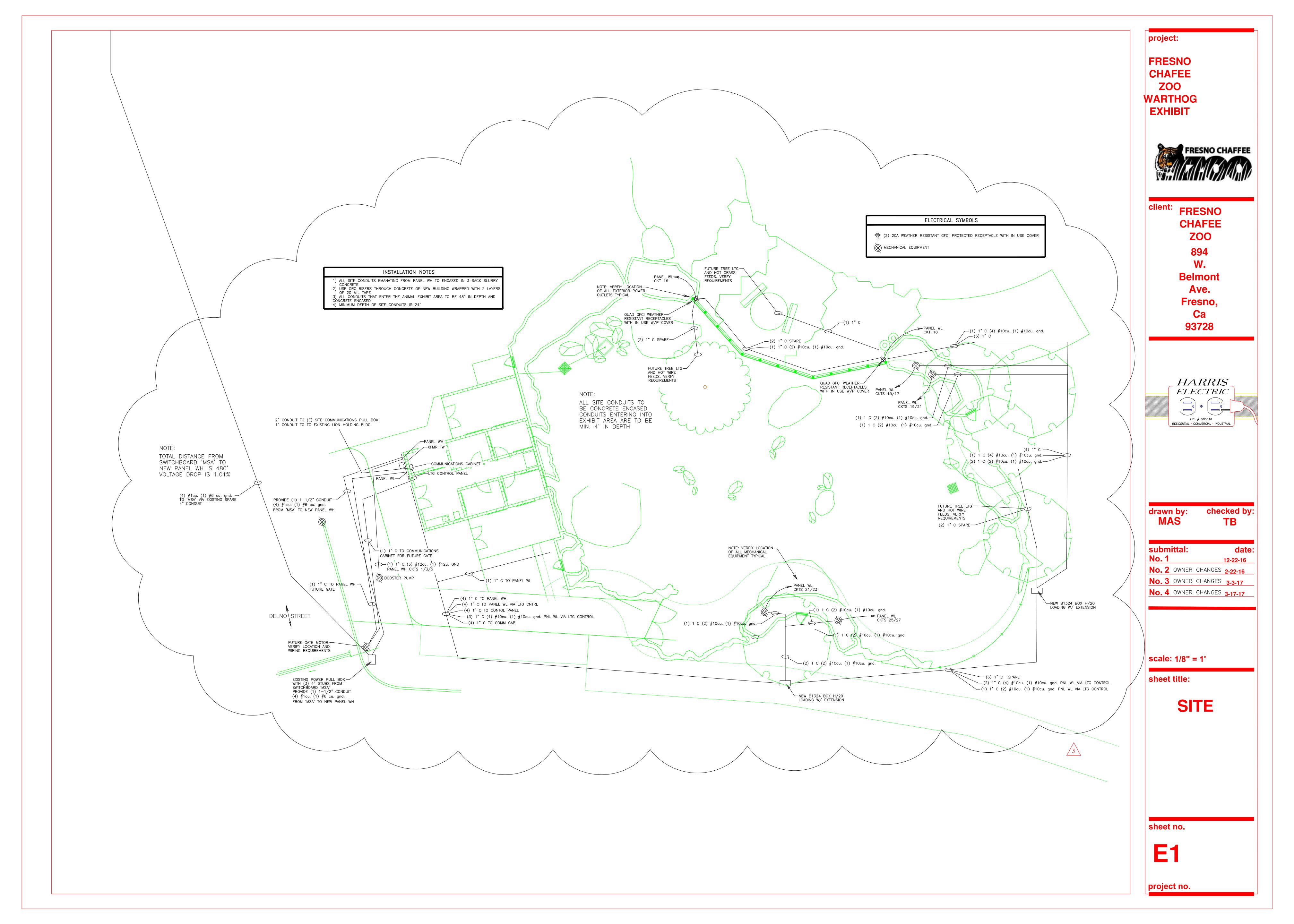
A. Maximum Offset From True Alignment Between Adjacent Members Butting or In Line: 1/16 inch (1.6 mm).

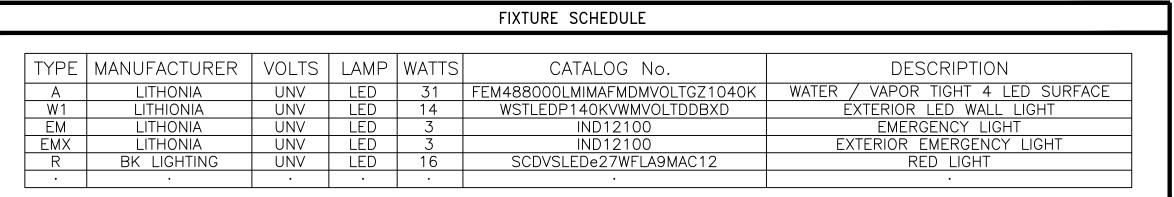
#### 3.04 CLEANING

A. Remove site cuttings from finish surfaces.

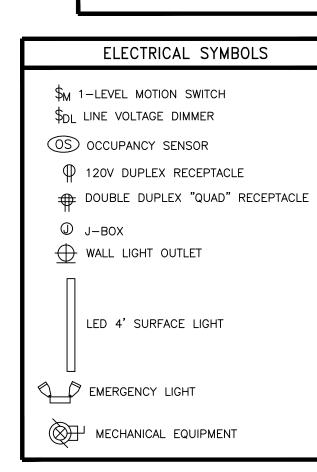
#### **END OF SECTION**



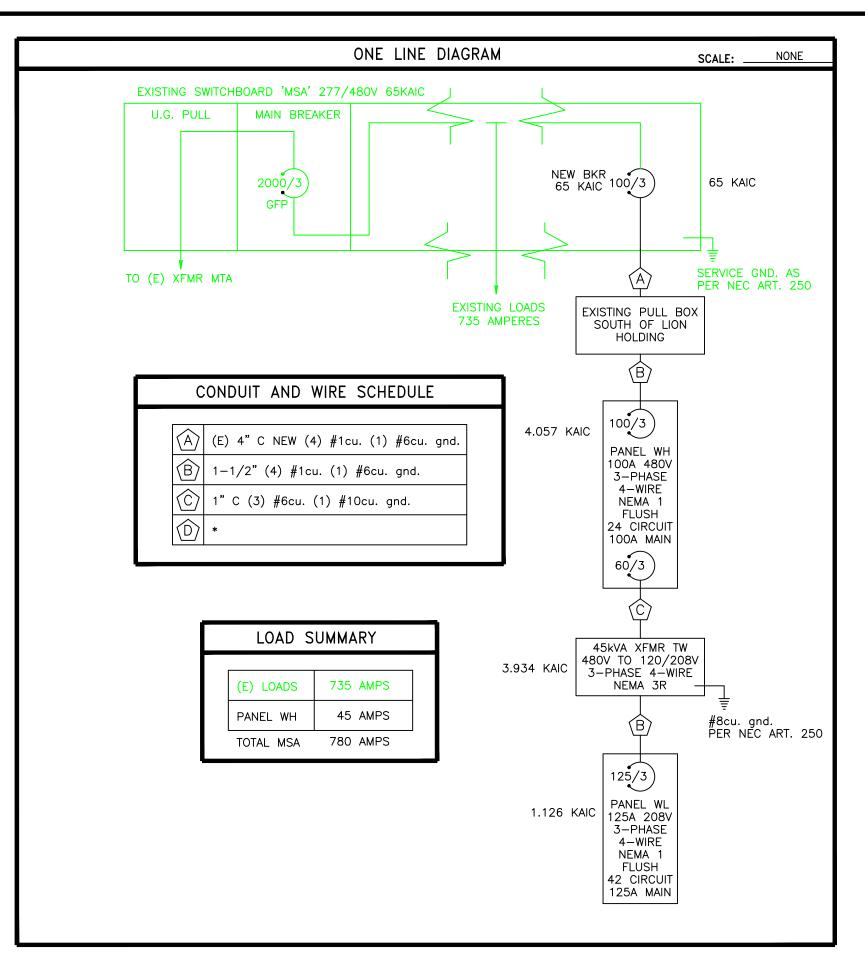




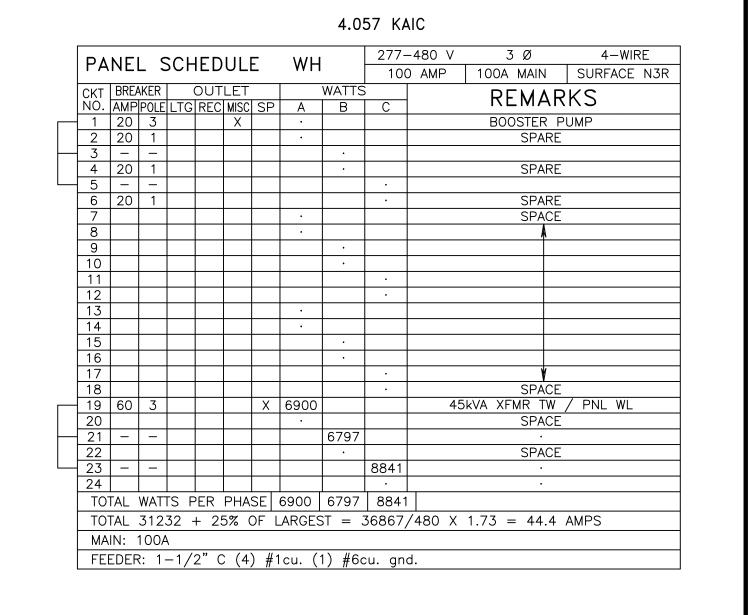
PANEL SCHEDULES

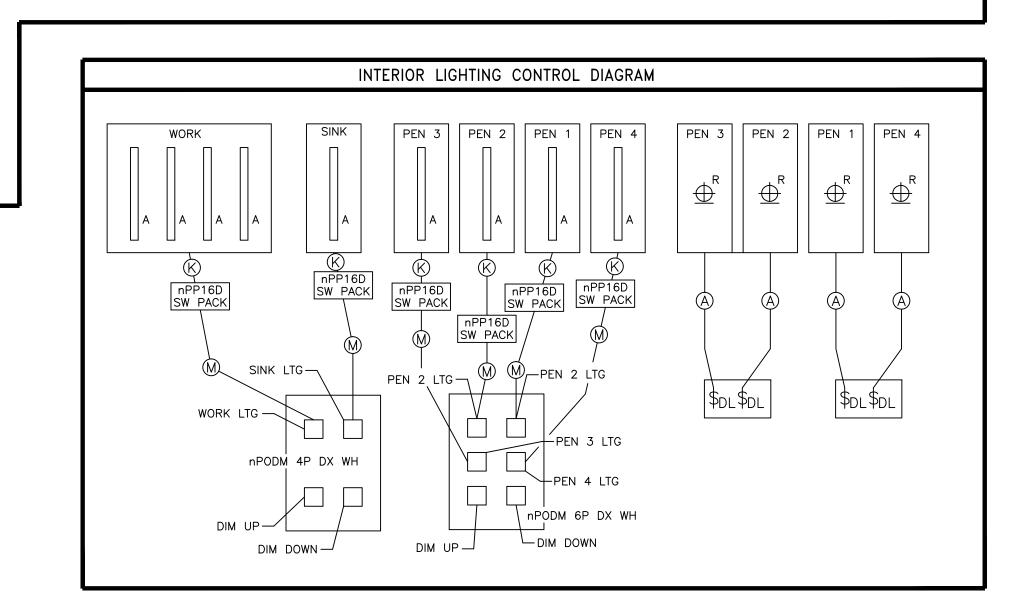


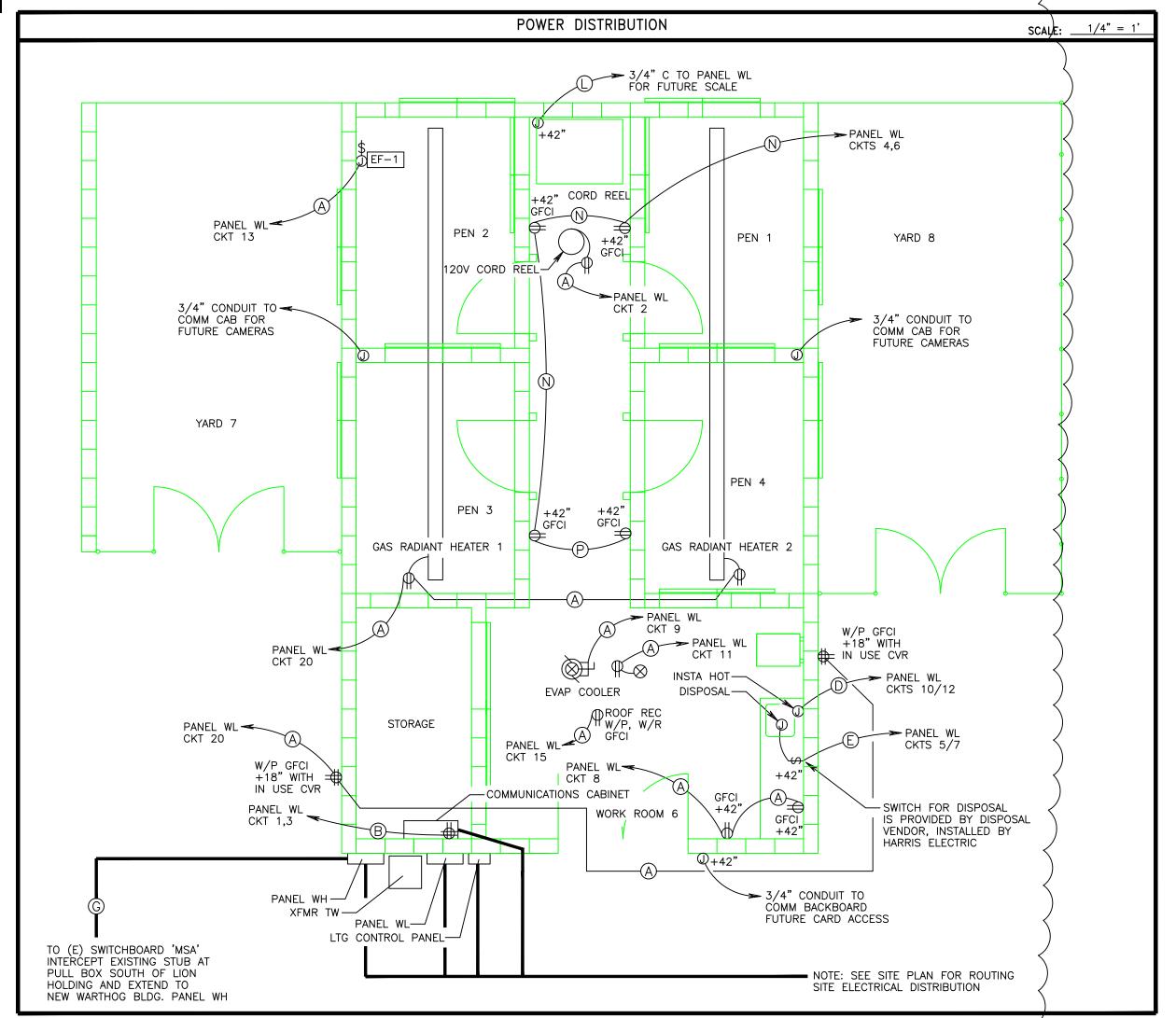
	CONDUIT AND WIRE SCHEDULE
(A)	1/2" C (2) #12cu. (1) #12cu. gnd.
$^{\otimes}$	1/2" C (3) #12cu. (1) #12cu. gnd.
0	1/2" C (4) #12cu. (1) #12cu. gnd.
0	3/4" C (2) #10cu. (1) #10cu. gnd.
(E)	3/4" C (2) #8cu. (1) #10cu. gnd.
(F)	3/4" C (2) #12cu. (2) #14cu. (1) #12cu. gnd.
<u>G</u>	1-1/2" C (4) #1cu. (1) #6cu. gnd.
(K)	12/2 (2) 16/2 MC LUMIARY CABLE
(L)	3/4" CONDIUT WITH PULL STRING
(M)	CAT-5E
$\overline{\mathbb{N}}$	3/4" PVC (2) #12cu. (1) #12cu. gnd.
P	3/4" PVC (4) #12cu. (1) #12cu. gnd.

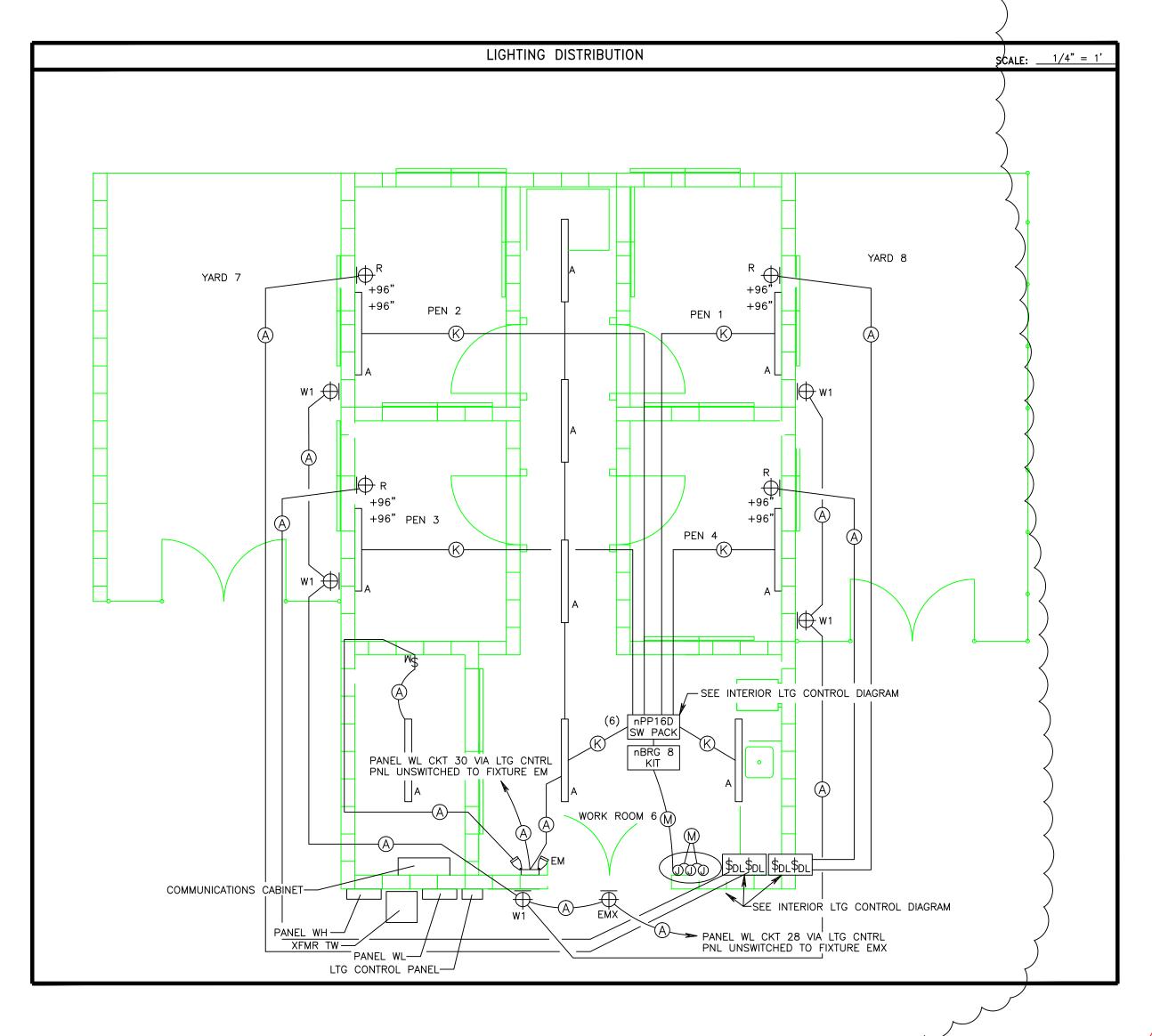


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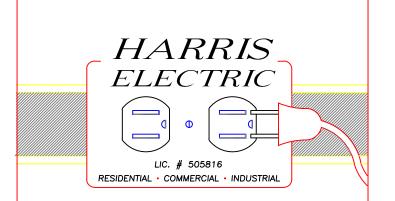


project:

FRESNO
CHAFEE
ZOO
WARTHOG
EXHIBIT



client: FRESNO
CHAFEE
ZOO
894
W.
Belmont
Ave.
Fresno,
Ca
93728



drawn by: checked by: MAS TB

 submittal:
 date:

 No. 1
 12-22-16

 No. 2
 OWNER CHANGES
 2-23-16

 No. 3
 OWNER CHANGES
 3-3-17

 No. 4
 OWNER CHANGES
 3-17-17

scale: AS SHOWN

sheet title:

**ELECTRICAL** 

sheet no.

**E2** 

project no.

# IRRIGATION SCHEDULE

<u>SYMBOL</u>	MANUFACTURER/MODEL/DESCRIPTION	QTY	<u>PSI</u>	<u>GPM</u>	RADIUS
27)	TORO TTPSS-01  TURF SPORTS ROTOR, 5" POP-UP,  ADJUSTABLE ARC FROM 45-360, VANDAL  AND ABUSE RESISTANCE. WITH CHECK  VALVE AND RUGGED DURABILITY  FEATURES. I" INLET SIZE, NPT.  STAINLESS STEEL RISER. NON POTABLE	7	60	23.8	7 '
<u>SYMBOL</u>	MANUFACTURER/MODEL/DESCRIPTION	QTY			
	TORO DZK-700  "  DRIP CONTROL VALVE KIT. WITH  "  IRRITROL 700 ULTRAFLOW INLINE  VALVE, TORO Y-FILTER, AND LOW-FLOW  PRESSURE REGULATOR AND FITTINGS.  0.10-20.0 GPM. NON POTABLE	6			
	PIPE TRANSITION POINT	8			
<b>©</b>	TORO T-FCH-H-FIPT FLUSH VALVE, PLUMBED TO FLUSH MANIFOLD AT LOW POINT. NON POTABLE	7			
<b>(A)</b>	TORO T-YD-500-34 1/2" AIR VENT- MIPT AIR RELEASE AND VACUUM RELIEF VALVE. NON POTABLE				
	TREE RING IRRIGATION—SMALL TREE  0.9 GPH EMITTER SPACED 12" OC.  APPROX. 36 LF OF EMITTER LINE PER  TREE. NON POTABLE	3			
<b>(a)</b>	TREE RING IRRIGATION—LARGE TREE  0.9 OPH EMITTER SPACED 12" OC.  APPROX. 13 LF OF EMITTER LINE PER  TREE. SEE DETAIL. NON POTABLE	2			
	TORO T-DPC-DC DRIP EMITTER  SINGLE OUTLET EMITTER.  SELF-FLUSHING, PRESSURE  COMPENSATING, WITH COLOR-CODED  DUST CAP. 0.5GPH=BLUE;  1.0GPH=BLACK; 2.0GPH=RED. NON  POTABLE	27			
	AREA TO RECEIVE DRIPLINE TORO T-PCB-E-1853-18 (24) DRIP-IN PRESSURE COMPENSATING LANDSCAPE DRIPLINE. 0.536PH EMITTERS AT 18.0" O.C. DRIPLINE LATERALS SPACED AT 24.0" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. NON POTABLE	5,43  S.F.			
	AREA TO RECEIVE DRIPLINE TORO ROP-418-E (18) SUB-SURFACE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH ROOTGUARD TECHNOLOGY. 1.06PH EMITTERS AT 18.0" O.C. DRIPLINE LATERALS SPACED AT 18.0" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. NON POTABLE	509.9 S.F.			
<u>SYMBOL</u>	MANUFACTURER/MODEL/DESCRIPTION	QTY			
	IRRITROL 100 2" 1"-3" ELECTRIC REMOTE CONTROL VALVE, ANTI-CONTAMINATION MODEL, GLOBE CONFIGURATION. PRESSURE RANGE OF 20-220 PSI. OPTIONAL MODULAR PRESSURE REGULATION. NON POTABLE	3			
<b>X</b>	NIBCO T-580-S6-R-66-LL STAINLESS STEEL BALL VALVE SHUT OFF VALVE. NON POTABLE				
	MASTER VALVE-TORO P220-26-0 GLOBE 2" PLASTIC IN-LINE MASTER VALVE. EQUIPPED TO WITHSTAND PRESSURE UP TO 220 PSI. FILTER SCREEN ON 2" AND 3" MODELS. STANDARD SOLENOID. GLOBE BODY STYLE. NON POTABLE				

# IRRIGATION SCHEDULE

	EAGLE PLUS EGP-16-S CONTROLLER. INSTALL IN STAINLESS STEEL ENCLOSURE WITH DISCONNECT SWITCH	
	TORO TWRS (!!!) WIRELESS RAIN SENSOR TRANSMITTER AND RECEIVER. MOUNT SENSOR TRANSMITTER AS NOTED OR APPROVED, MOUNT SENSOR RECEIVER NEXT TO THE IRRIGATION CONTROLLER AS NOTED OR APPROVED, USE CONTROLLER POWER OR OPTIONAL TRANSFORMER. ADJUST RAIN SHUTOFF INDEX.	
FS	TORO TFS 2" PLASTIC TEE SIZES. EFFECTIVE FLOW MONITORING, EVEN IN FLOWS LESS THAN 5 GPM. COMPATIBLE WITH TORO AND COMPETITIVE CONTROLLERS. IMPELLER-BASED, PVC DESIGN. NON POTABLE	
(BP)	WATERTRONICS WATERMAX 3000 - 5 HP EFFICIENT COMPACT PUMPING SYSTEM, 5 HORSEPOWER.	
M	WATER METER 2" 2" POC TO NPW	
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 3/4" PVC SCHEDULE 40 IRRIGATION PIPE. ONLY LATERAL TRANSITION PIPE SIZES I" AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHERS BEING 3/4" IN SIZE. NON POTABLE	867.4 L.F.
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40  " PVC SCHEDULE 40 IRRIGATION PIPE. ONLY LATERAL TRANSITION PIPE SIZES  " AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHERS BEING 3/4" IN SIZE. NON POTABLE	53 .7 L.F.
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40   1/4" PVC SCHEDULE 40 IRRIGATION PIPE. ONLY LATERAL TRANSITION PIPE SIZES I" AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHERS BEING 3/4" IN SIZE. NON POTABLE	105.3 L.F.
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40   1/2" PVC SCHEDULE 40 IRRIGATION PIPE. ONLY LATERAL TRANSITION PIPE SIZES I" AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHERS BEING 3/4" IN SIZE. NON POTABLE	247.2 L.F.
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 2" PVC SCHEDULE 40 IRRIGATION PIPE. ONLY LATERAL TRANSITION PIPE SIZES I" AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHERS BEING 3/4" IN SIZE. NON POTABLE	44.5 L.F.
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 2 1/2" PVC SCHEDULE 40 IRRIGATION PIPE. ONLY LATERAL TRANSITION PIPE SIZES 1" AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHERS BEING 3/4" IN SIZE. NON POTABLE	116.9 L.F.
	IRRIGATION MAINLINE: PVC SCHEDULE 40 2" PVC SCHEDULE 40 IRRIGATION PIPE. NON POTABLE	2.4 L.F.
	IRRIGATION MAINLINE: PVC SCHEDULE 40 3" PVC SCHEDULE 40 IRRIGATION PIPE. NON POTABLE	78.4 L.F.
	PIPE SLEEVE: PVC SCHEDULE 40	78.5 L.F.

project:

FRESNO CHAFEE ZOO WARTHOG EXHIBIT



client:

FRESNO CHAFEE ZOO

894 W. Belmont Ave. Fresno, Ca 93728

designlab 252

P.O. Box 27616 Fresno, CA 93729 Studio: 559.472.9966 Fax: 559.472.9969



drawn by:	cnecked by:
PB	KJ
	_

submittal:	date
No. 1	12-23-2016
No. 2	02-22-2017
No. 3	03-24-2017
No. 4	

scale:

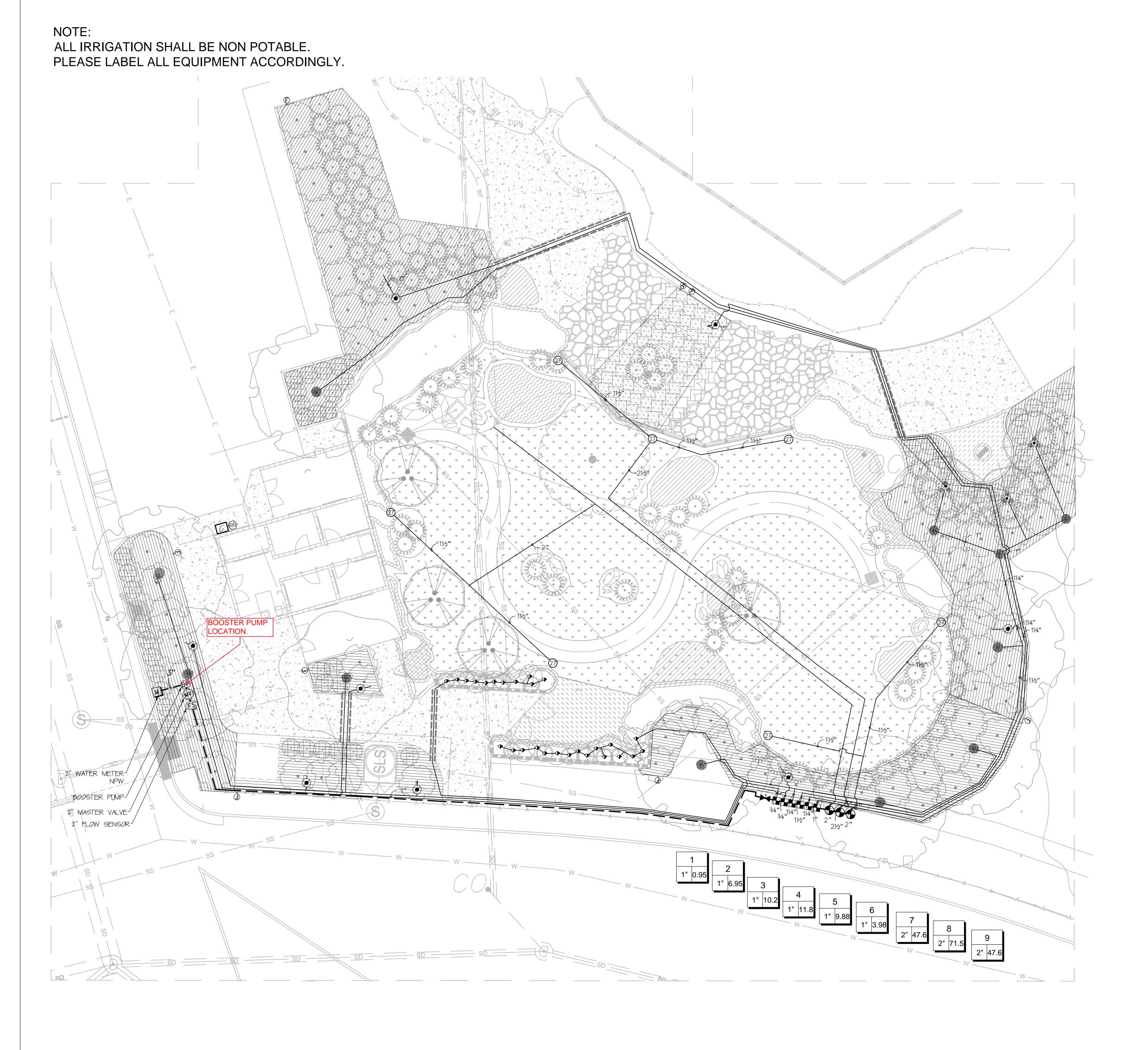
sheet title:

Irrigation Legend

sheet no.

L14.1

project no. 16-06-005



## GENERAL IRRIGATION NOTES

- I. THIS SYSTEM IS DIAGRAMMATIC. ALL PIPE, VALVES, ETC. SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHEREVER
- 2. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS INDICATED ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS OR GRADE DIFFERENCES EXIST AND SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR MUST ASSUME FULL RESPONSIBILITY FOR REVISIONS NECESSARY.
- 3. SYSTEM DESIGN IS BASED ON MINIMUM OPERATION PRESSURE SHOWN FOR EACH POINT OF CONNECTION WITH MAXIMUM GPM DEMAND SPECIFIED. IRRIGATION CONTRACTOR SHALL VERIFY ALL PRESSURES ON SITE PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S CONSTRUCTION REPRESENTATIVE.
- 4. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, CURB, ETC. CONTRACTOR SHALL COORDINATE ALL WORK WITH GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS FOR LOCATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADS,
- 5. MAINLINE FEEDER BETWEEN POINT OF CONNECTION, METER AND BACKFLOW PREVENTER TO
- 6. FINAL LOCATION OF THE AUTOMATIC CONTROLLER ENCLOSURE SHALL BE APPROVED BY THE
- OWNER'S REPRESENTATIVE AND/OR LANDSCAPE ARCHITECT, WHERE APPLICABLE. 7. FINAL LOCATION OF THE BACKFLOW PREVENTION DEVICE SHALL BE APPROVED BY THE
- 8. IN ADDITION TO THE SLEEVES SHOWN ON THE PLAN, THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ADDITIONAL SLEEVES OF SUFFICIENT SIZE UNDER ALL PAVED AREAS UPON APPROVAL OF THE OWNER'S REPRESENTATIVE, IF REQUIRED
- 9. IRRIGATION CONTRACTOR SHALL FLUSH ALL LINES AND ADJUST SYSTEM FOR MAXIMUM

- 2.1. PVC PLASTIC PIPE, ASTM D 1785 , PVC 1120, SCHED. 40, 160 psig.
- PVC PLASTIC PIPE,ASTM D 1785 , PVC 1120, SCHED. 40, 160 PSIG.
- 5.1. AUTOMATIC CIRCUIT VALVES: PLASTIC-BODIED GLOBE OR ANGLE VALVES OPERATED BY LOW-VOLTAGE SOLENOID, NORMALLY CLOSED, MANUAL FLOW ADJUSTMENT.
- GROUP OF VALVES. 7. SPLICING OF 24 VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. LEAVE 24"
- 8. VALVE MANIFOLDS: INSTALL VALVE BOXES 4" FROM AND PERPENDICULAR TO PATH EDGE, CURB, LAWN, BUILDINGS OR LANDSCAPE FEATURES. AT MULTIPLE VALVE BOX GROUPS, EACH BOX SHALL BE AN EQUAL DISTANCE FROM THE WALK, CURB, LAWN, ETC. AND EACH BOX SHALL BE 6" APART. SHORT SIDE OF VALVE BOX SHALL BE PARALLEL TO WALK, CURB,
- 9. CONCRETE THRUST BLOCKS SHALL BE PROVIDED ON ALL MAINLINE PIPING. THEY ARE TO BE LOCATED AT ALL ABRUPT CHANGES TO HORIZONTAL ALIGNMENT, REDUCTION IN PIPE SIZES, END OF LINE AND IN-LINE VALVES TO ABSORB ANY AXIAL THRUST OF THE PIPE. THE PIPE MANUFACTURE'S RECOMMENDATIONS FOR THRUST BLOCKS MUST BE FORMED AGAINST UNDISTURBED EARTH.

# SUBSURFACE DRIP NOTES

- SEE PLANS FOR ROW SPACING. INSTALL APPROXIMATELY 4" BELOW SURFACE
- PARALLEL TO CONTOURS. 3. CONTRACTOR TO INSTALL FIRST ROW OF SUBSURFACE DRIP LINE 2-4" INSIDE
- OF PERIMETER OF EACH PLOT. 4. IF LAST ROW BEFORE PERIMETER ROW IS LESS THAN 18", INSTALL ROW
- HALFWAY BETWEEN PREVIOUS ROW AND PERIMETER ROW.
- ADDITIONAL LATERAL FEED LINE. DO NOT ALLOW SINGLE SUBSURFACE DRIP
- ONE FLUSH VALVE PER 7 GPH. SEE DETAIL.
- LINE TO EXCEED 200 LINEAR FEET.

- PAVING AND STRUCTURES.
- BE OF MATERIAL REQUIRED BY CURRENT WATER DISTRICT.
- CITY'S REPRESENTATIVE, AND/OR LANDSCAPE ARCHITECT, WHERE APPLICABLE.
- PERFORMANCE AND TO PREVENT OVER-SPRAY ONTO HARD SURFACES. 10. CLEAN-UP ON A DAILY BASIS PER OWNER'S REPRESENTATIVE'S APPROVAL.

## **IRRIGATION NOTES**

- I. IRRIGATION SLEEVES SHALL BE 2X DIAMETER OF PIPE.
- 2. PRESSURE PIPE (MAINLINE) SHALL COMPLY WITH THE FOLLOWING:
- 3. LATERAL PIPE (DOWNSTREAM FROM CIRCUIT VALVES) SHALL COMPLY WITH THE FOLLOWING:
- 4. IRRIGATION LINES SHALL NOT BE LESS THAN 3/4" INSIDE DIAMETER.
- 5. VALVES: MANUFACTURER'S STANDARD, OF TYPE AND SIZE INDICATED, AND AS FOLLOWS:
- 6. VALVE BOX: MANUFACTURER'S STANDARD PLASTIC UNIT, WITH LABELED COVER, FOR EACH
- COIL OF EXCESS WIRE AT EACH SPLICE. LABEL ALL WIRES W/ WATERPROOF MARKERS AT ALL SPLICES,
- LAWN, ETC. FLUSH VALVES SHALL BE PLACED 2' FROM WALK.

- <u>INSTALL PER MANUFACTURER'S INSTRUCTIONS.</u> <u>SUBSURFACE DRIP LINE:</u> | *O G*PH EMITTER ASSEMBLIES SPACED @ |8'' O.C.
- 5. WHEN SUBSURFACE DRIP LINE RUN EXCEEDS 200 LINEAR FEET, INSTALL
- 6. FLUSH VALVE: INSTALL FLUSH VALVE AT LOWEST POINT IN SYSTEM. INSTALL
- 7. <u>AIR RELIEF VALVE: I</u>NSTALL AIR RELIEF VALVE AT HIGHEST POINT IN SYSTEM.

project:

**FRESNO** CHAFEE **ZOO** WARTHOG **EXHIBIT** 



client:

**FRESNO CHAFEE ZOO** 

894 W. Belmont Ave. Fresno, Ca 93728



P.O. Box 27616 Fresno, CA 93729 Studio: 559.472.9966 Fax: 559.472.9969



checked by: drawn by: PB KJ

submittal: date: No. 1 12-23-2016 No. 2 02-22-2017 No. 3 03-24-2017 No. 4

scale: 1"=10'-0"

sheet title:

Irrigation Plan

sheet no.

L15.1

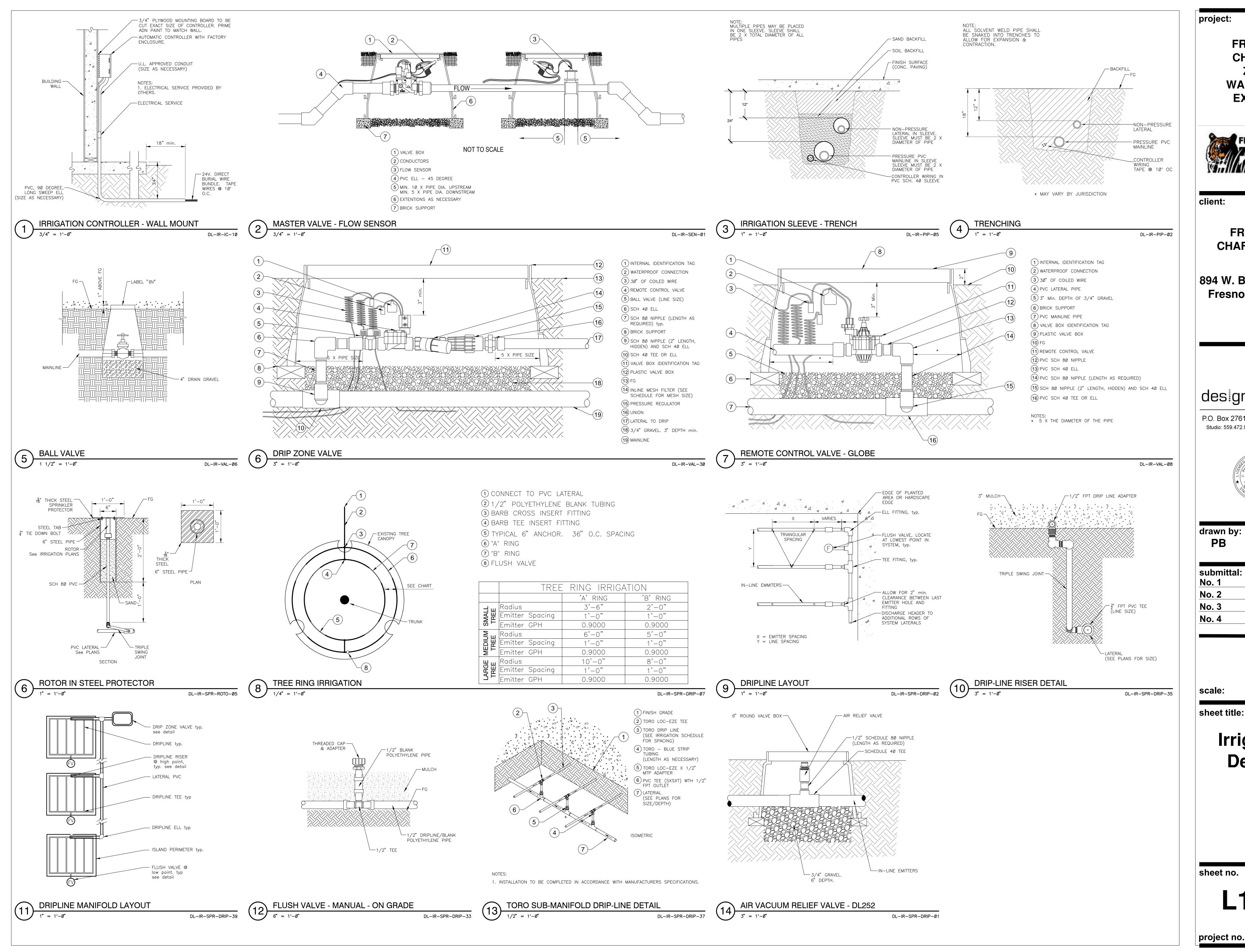
project no. 16-06-005

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE CALCULATIONS

MAXIMUM ALLOWED WATER APPLIED (MAWA) = 622,108 GALLONS ESTIMATED TOTAL WATER USED (ETWU) (RECLAIMED) = 622,108 GALLONS

THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE AND IRRIGATION DESIGN PLAN. Mar 17, 2017 DATE:

I HAVE COMPLIED WITH THE CRITERIA OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE AND APPLIED



**FRESNO** CHAFEE **ZOO** WARTHOG **EXHIBIT** 

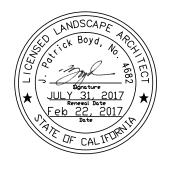


**FRESNO CHAFEE ZOO** 

894 W. Belmont Ave. Fresno, Ca 93728

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checked by:

РВ	KJ
submittal:	date:
No. 1	12-23-2016
No. 2	02-22-2017
No. 3	03-24-2017

sheet title:

Irrigation **Details** 

L16.1

project no. 16-06-005





# THE EFFICIENT PUMPING SYSTEM UP TO 85 GPM

Setting the standard for 25 years, the WaterMax Series provides a complete line of self-enclosed pumping systems for landscape irrigation. Watertronics' proprietary control software combines with VFD technology to provide highly efficient, precision pumping in a durable, compact design.

#### PRECISE PRESSURE REGULATION

WaterMax 3000 Pumping Systems are pre-fabricated, self-contained and incorporate the latest VFD technology to provide smooth, accurate, surge-free and energy efficient performance at varying flow rates. Whether your water source is a lake, pond or a boosted city supply, the 3000 can provide the water and constant pressure desired up to 85 GPM or 95 PSI.

# BUILT TO WITHSTAND THE TEST OF TIME AND TOUGH CONDITIONS

A multi-step coating system of metal prepartion, rust-inhibitive baked epoxy primecoat and a two-part UV-resistant baked polyurethan finish produces a long-lasting, durable, and rust-free product.

#### **DYNAMIC FACTORY TESTING**

Every WaterMax System is fully performance tested at field conditions prior to shipment to ensure your pump will perform exactly as promised. All WaterMax Products carry a 1 year limited warranty against defects in materials and workmanship.

- For suction lift, boost or flooded intake applications
- Flows up to 85 GPM
- Motor range: 3 HP, 5 HP, 7.5 HP
- Voltage options

208/3 phase - 240/1 phase - 240/3 phase - 480/3 phase

- A compact pumping station built to provide years of dependable service
- Energy-efficient VFD system provides a surge-free soft start
- Pump Service Network (PSN) provides nationwide technical service for installation, start-up, user training and maintenance



www.watertronics.com 262.367.5000 | 800.356.6686

#### STANDARD FEATURES AND BENEFITS

- NEMA 3R service rated, fused main disconnect with lightning surge protection to safeguard station electronic components from power surge.
- Variable Frequency Drive for constant pressure, variable flow and surge free soft starting
- Multi-line operator interface display
- Alarms:
  - High pump temperature shutdown
  - High pressure shutdown
  - Low pressure shutdown
  - Motor overload shutdown
  - VFD fault shutdown
  - Phase loss (3 phase only)
- · Pressure drop starting
- 316 stainless steel pressure transducer for accurate repeatability of all pressure signals
- Pump construction features include a bronze impeller and a cast iron volute with back pullout design
- Heavy duty, energy efficient pump/motor with ranges from 3 HP to 7.5 HP
- Station gate valve located inside the enclosure to isolate the pump station from the irrigation system
- Priming port for suction lift application located outside of the enclosure for easy system priming
- 2.5" foot valve (shipped loose on lift application)
   2" silent check valve on booster model
- Engineered, forced air cooled, weather resistant
   14 gauge steel enclosure with lockable lid
- Multi-step coating system which includes metal preparation, rust-inhibitive, baked epoxy prime coat, and a two-part ultraviolet insensitive baked polyurethane finish
- · Corrosion resistant stainless steel hardware
- Performance run tested prior to shipment

#### **AVAILABLE OPTIONS**

- 24 volt controller start (up to 3 additional)
- Suction & Discharge drop pipes
- Flexible intake hose assembly with foot valve
- Stainless steel enclosure
- Dead-front service disconnect



NEMA 3R service rated, fused main disconnect with lightning surge protection to safeguard station electronic components from power surge.



A multi-step coating system which includes metal preparation, rust-inhibitive, baked epoxy prime coat, and a two-part ultraviolet insensitive baked polyurethane finish is used to produce a long lasting, rust-free and professional looking product.

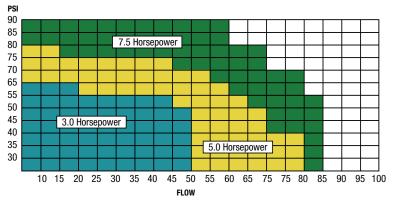


Variable Frequency Drive for constant pressure, variable flow and surge free soft starting



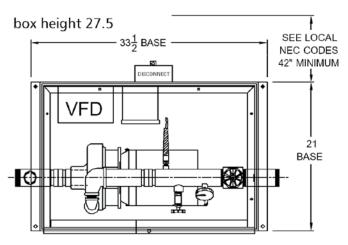
Exhaust fan cools the pump motor, switchgear and control logic. It activates when the pump starts.

#### 3000 PUMP STATION PERFORMANCE CHART



Performance chart is based on a 5 foot suction lift.

Add 2 PSI for booster performance



**TOP VIEW** 



Mike Elrod Soltek Project Manager 1080 Holland Ave Clovis, CA. 93612 559.696.8668

Received Date: May 8, 2017 Project: Chaffee Zoo - Warthogs

Delivered via: melrod@soltekpacific.com

#### **RFI#1:**

No.	Question:	Comments
1	Details 1 & 2/L7.1 and detail 7/L7.1; please specify ag base thickness.	5" AG
2	Detail 1/L7.1; is ag base required under concrete grade beam?	AG base is not required under the grade beam.
3	Is ag base required under colored stamped concrete?	Yes
4	Details 1,2,3,4,5/L10.1; please specify wood post size and type.	6" Douglas fir per detail 3/L10.1
5	Symbol W-103/L4.1 states a quantity of 241. This is incorrect or does not coincide with the scale of the plans, please clarify.	Length is 60'
6	Symbol W-105/L4.1 quantity is incorrect or does not coincide with the scale of the plans, please clarify.	Length is 73'
7	Details 1 & 2/L6.1 reference detail 1/L-8; there is no sheet L-8. Please clarify.	Wire Mesh fence details are located on L9.1
8	Detail 10/L10.1 Concrete grade beam is called out. Is this shotcrete, since it is in line with the shotcrete wall	4' Chain link access gates have been removed from the plans. Disregard detail.

9	Detail 10/L10.1 shows a single 4'-0" gate, whereas "CH" on L3.1 shows double gate. Please clarify.				access gate. A grad pad at that location.		
10	L3.1 shows two additional 3'- 0" gates or doors, but does not specify what they are. Please specify.	installe	d by meta	rock sub trade co al frame and doo	s will be furnished ontractor. The doo r. Door hardware	ors need to be a 5	-7/8"
		Qty		Description	Catalog Number	Finish	Mfr
		3	EA	HW HINGE	5BB1HW 4.5 X 4.5	652	IVE
		1	EA	STOREROOM LOCK	L9080T 06A	626	SCH
		1	EA	PRIMUS CORE	20-740-XP	626	SCH
		1	EΑ	FLOOR STOP	FS436	626	IVE
		1	EΑ	THRESHOLD	PER	AL	
		1	EA	SURFACE CLOSER	DETAILS 4040XP	689	LCN
11	Sheet A1; please clarify	No Con	croto		tive soil with 3' deep	concrete footings	at
11	thickness of concrete in Yard 7 & 8, type/reinforcing/substrate.	fencing			ive son with 2 deet	concrete rootings	ai

Patrick Boyd Vice President

p: 559.901.8647

e: patrick@designlab252.com

cc: Alan Mok Dustan Bagliere



5520 E. Lamona Ave., Fresno, CA 93727 (559) 252-1000 office • (559) 252-1005 fax zumwalt@zumwaltconst.com e-mail

### **REQUEST FOR INFORMATION**

	1							
PROJECT: Pre Bid	FCZ WARTHO	G EXHIBIT	DATE:	<b>DATE:</b> 5/2/17				
ZOO PROJ MGR:	MIKE ELROD		RESPON	_ RESPONSE NEEDED BY : 5/4/17				
OWNER:	FRESNO'S CHA	AFFE ZOO						
ARCHITECT:	TAM & CZ							
INSPECTOR:	City of Fresno							
FROM: ZCI			TO: ROBER	Γ BORO/N	MIKE ELROD			
SUBJECT: DOOR H	HARDWARE SCH	EDULE						
REFERENCE	PLANS:	SHEET NO.		DETAIL	. NO.			
	SPEC'S: X	SECTION	08- 7100	ARTICI	LE/PKG			
REQUEST: Please for	urnish a Door Hard	lware schedule, T	here is no section (	98-07100 ir	the spec book			
SUGGESTION:								
Anticipated Cost Impa	ct L	JNKNOWN		Yes X	T			
<b>Anticipated Time Impa</b>				103 21	No			
Anneipateu Time impa	act L	JNKNOWN		Yes	No No			
	FERREIRA							
SIGNED BY: RICH		JNKNOWN		Yes DATE	No			
SIGNED BY: RICH	FERREIRA	OR REVISED HARDY		Yes DATE  IFO.	No			





To:	Mike Elrod	From:	Eric Bower
Company:	Soltek	Company:	BMY Construction Group, Inc.
Fax number:		Page(s):	(1) Including Cover Page
Phone number:		Date:	5/5/2017
Reference: FCZ	Warthog Exhibit		

BMY Construction Group, Inc. is requesting the following clarifications, specifications and/or request for information:

- 1. Details 1 & 2/L7.1 and detail 7/L7.1; please specify ag base thickness.
- 2. Detail 1/L7.1; is ag base required under concrete grade beam?
- 3. Is ag base required under colored stamped concrete?
- 4. Details 1,2,3,4,5/L10.1; please specify wood post size and type.
- 5. Symbol W-103/L4.1 states a quantity of 241. This is incorrect or does not coincide with the scale of the plans, please clarify.
- 6. Symbol W-105/L4.1 quantity is incorrect or does not coincide with the scale of the plans, please clarify.
- 7. Details 1 & 2/L6.1 reference detail 1/L-8; there is no sheet L-8. Please clarify.
- 8. Detail 10/L10.1 Concrete grade beam is called out. Is this shotcrete, since it is in line with the shotcrete wall or cast in place concrete? Dimensions and reinforcing is needed if it is cast in place.
- 9. Detail 10/L10.1 shows a single 4'-0" gate, whereas "CH" on L3.1 shows double gate. Please clarify.
- 10. L3.1 shows two additional 3'-0" gates or doors, but does not specify what they are. Please specify.
- 11. Sheet A1; please clarify thickness of concrete in Yard 7 & 8, type/reinforcing/substrate. Response to 11. No Concrete in Yards 7 or 8, native soil with 3' deep concrete footings at fencing per plan.

Thank you, **BMY Construction Group, Inc.** 

Eric Bower President





To:	Mike Elrod	From:	Eric Bower
Company:	Soltek	Company:	BMY Construction Group, Inc.
Fax number:		Page(s):	(1) Including Cover Page
Phone number:		Date:	5/5/2017
Reference: FCZ	Warthog Exhibit		

BMY Construction Group, Inc. is requesting the following clarifications, specifications and/or request for information:

- 1. Please specify door hardware for Doors 103 thru 119. #1 Response: As stated during the job walk. All animal pen gates will be custom fabrication, this includes the all pulley system and hardware. These will require shop drawings to be submitted for approval. Padlock type is listed in the Typical Door Hardware notes, sheet A4.
- 2. Please specify door types 118 & 119. #2 Response: Doors for 118 & 119 are chain link fence gates.
- 3. Sheet L1.1 calls for 570 sf of interlocking pavers. This is incorrect or the scale of the plans is off. Please clarify.

Thank you, **BMY Construction Group, Inc.** 

Eric Bower President



### **Request For Information** No. 001

Project: Fresno Chaffee Zoo - Warthog Exhibit

Date: 5/3/2017

**Required Response Date: ASAP** 

To: Jan Mitchell BMY Construction Group, Inc. Ph (559) 243-4200 jmitchell@bmyinc.com

Subject: Exterior Windows / Tubular Skylights

#### **Description of Request:**

1. Exterior window type B in sheet A4 calls for detail 6/A6, which shows a hollow-metal frame. Are these windows to be hollow metal, and if so, what glass type will be required?

2. Will any specifications be released for the tubular skylights?

#### RESPONSE:

- 1) WINDOW FRAMES CAN BE ALLOMINUM. REFER TO SPEC FOR ALLOMINUM WINDOW FRAMES. GLAZING SHALL BE SINGLE PANE, TEMPERED, 4" THICK, CLEAR FLOAT GLASS.
- 2) SKYLIGHT SPECIFICATION WILL BE ADDED. SEE ATTACHED.