

Veterans Memorial Park - Irrigation: Re-Bid

Construction Documents

Hollister, California

GENERAL NOTES

DESIGN INTENT These Drawings and accompanying technical specifications represent the general design intent to be implemented on the site. Contractor shall be responsible for contacting the Engineer for any additional clarification or details necessary to accommodate site conditions.

CONTRACTOR COORDINATION The Contractor shall coordinate and otherwise integrate his work with that of others in an efficient, craftsmanlike and timely manner so as to provide the County with a well-constructed, easily maintainable project. Each contractor shall notify others at least two working days in advance of covering, completing or exposing work to be installed by others.

CONTRACTORS' JOB SITE CONDITIONS The Contractor agrees to assume sole and complete responsibility for site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the Contractor shall defend, indemnify and hold the County and the Engineer 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 the County or the Engineer.

COMPOSITE BASE SHEET The proposed improvements shown on these Drawings are superimposed on a base sheet. This base sheet is compiled from an aerial topographic survey, as made available by the Owner. The Architect/Engineer shall not be held liable for changes, inaccuracies, omissions or other errors on these documents. The composite base sheet is provided only as an aid, and the Contractor shall be responsible for reviewing these documents and incorporating/integrating all construction as required to accommodate same.

UTILITIES A reasonable effort has been made to locate and delineate all known underground utilities. The Contractor is cautioned that only excavation will reveal the types, extent, sizes, location and depths of such underground utilities. However, the Architect/Engineer can assume no responsibility for the completeness or accuracy of delineation of such underground utilities, nor for the existence of other buried objects or utilities which are not shown on these Drawings. For areas under public ownership, the Contractor is responsible for contacting utility companies prior to commencing construction, and requesting a visual verification of the locations of their underground utilities. The utility companies are members of the Underground Service Alert (USA) one-call program. Notification shall be a minimum of (2) working days in advance of performing excavation work by contacting USA North at 811 / 1-800-227-2600 / www.usanorth.org for Northern California, and DigAlert 811 / www.digalert.org for Southern California. For areas under private ownership and campuses not members of USA, the Contractor is responsible for engaging the services of a private utility locator for a visual verification of the locations of underground utilities. Excavation is defined as being 6 or more inches in depth below the existing surface.

codes / standards

GENERAL: Bring conflicts between Codes, Referenced Standards, Drawings, and Specifications to the attention of the Construction Manager in writing, for resolution before taking any action. Where differences exist between codes and standards, the one affording the greatest protection shall apply. If the year of adoption is omitted from the Code or Standard designation, it shall mean the latest revision in effect on the Bid date.

PROJECT SHALL COMPLY WITH ALL LOCAL AND STATE APPLICABLE CODES.

ABBREVIATIONS

AB	Aggregate Base	LB	Pound
AC	Asphalt Concrete	LF	Lineal Feet
AD	Area Drain	LOW	Limit of Work
ALT	Alternate	LP	Low Point
APPROX	Approximate	MAX	Maximum
ARCH	Architectural	MECH	Mechanical
BLDG	Building	MED	Medium
BOC	Bottom of Curb	MFR	Manufacturer
BOW	Bottom of Wall	MH	Manhole
BS	Bottom of Step	MIN	Minimum
BOT	Bottom	MM	Millimeter
CB	Catch Basin	MTL	Metal
CBC	CA Building Code	(N)	New
CI	Cast Iron	NIC	Not In Contract
CL	Centerline	NO	Number
CLR	Clear	NOM	Nominal
CM	Centimeter	NTS	Not To Scale
CMU	Concrete Masonry Unit	OC	On Center
CONC	Concrete	OD	Outside Diameter
CONST	Construction	OPP	Opposite
CONT	Continuous	PA	Plant Area
CO	Cleanout	PB	Pull Box
COORD	Coordinate	PE	Polyethylene
CY	Cubic Yard	PERF	Perforated
DBL	Double	POB	Point of Beginning
DEMO	Demolition	POC	Point of Connection
DET	Detail	POS	Point on Slope
DG	Decomposed Granite	PNT	Point
DIA, Ø	Diameter	PREFAB	Prefabricated
DN	Down	PSI	Pounds per Square Inch
DWG	Drawing	PT	Pressure Treated
(E), EX	Existing	PVC	Polyvinyl Chloride
EA	Each	R, RAD	Radius
EG	Existing Grade	REBAR	Reinforcement Bar
EJ	Expansion Joint	REF	Reference
EP	Edge of Paving	REQD	Required
ELEV	Elevation	RIM	Rim Elevation
ELEC	Electrical	RND	Round
EQ	Equal	RWL	Rain Water Leader
EQUIP	Equipment	S4S	Surface Four Sides
EXP	Exposed	SCH	Schedule
EXT	Exterior	SD	Storm Drain
FFE	Finished Floor Elevation	SF	Square Foot
FG	Finished Grade	SIM	Similar
FL	Flow Line	SPECS	Specifications
FOB	Face of Building	SQ	Square
FOC	Face of Curb	SS	Sanitary Sewer
FPS	Feet Per Second	STL	Steel
FS	Finish Surface	SY	Square Yard
FSF	Finish Surface Field	SYN	Synthetic
FT	Foot	TC	Top of Curb
GA	Gauge	THK	Thick
GALV	Galvanized	TS	Top of Step
GB	Grade Break	TYP	Typical
GI	Galvanized Iron	TW	Top of Wall
GPH	Gallons Per Hour	U/G	Underground
GPM	Gallons Per Minute	UON	Unless Otherwise Noted
HDG	Hot Dipped Galvanized	VERT	Vertical
HDR	Header	VIF	Verify in Field
HORIZ	Horizontal	W	Water
HP	High Point	WP	Weaked Plane Joint
HSS	Hollow Structural Steel	WV	Water Valve
ICV	Irrigation Control Valve	WWM	Welded Wire Mesh
ID	Inside Diameter	W/	With
INT	Interior	WD	Wood
INV	Invert		

symbols

	Revision Callout		Area Plan Callout
	Elevation Callout		Reference Note
	Section Callout		Detail Reference

SHEET INDEX

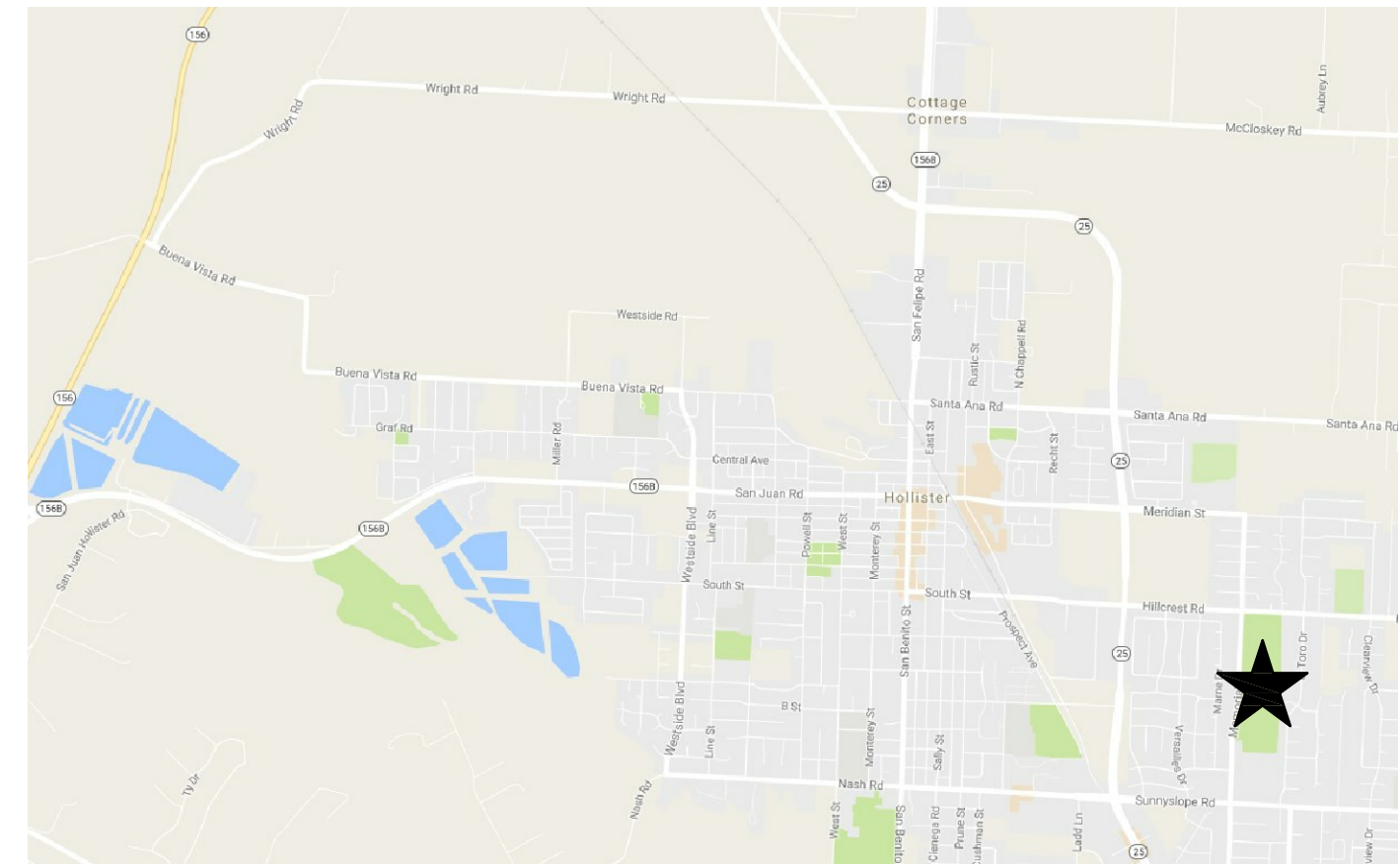
SHEET NO:	CONTENTS:
L-1.1	Cover Sheet
L-2.1	Existing Conditions Plan
L-3.1	Construction Plan
L-4.1	Construction Details (Alternate 2)
P-0.1	Plumbing Legend, Notes, and Site Plan
P-0.2	Plumbing Partial Site Plan and Details
E1.0	Electrical Symbols, Abbreviations, and Specifications (Alternate 1)
E2.0	Electrical Overall Site Plan (Alternate 1)
E3.0	Electrical Partial Site Plan, Single Line Diagram, and Details (Alternate 1)

Revised Scope of Work

These plans represent a revised scope of work and bidding approach from the plans bid December of 2016. The revised scope of work is as follows:

- The base bid has been reduced by including three alternates as shown on the drawings and identified on this Cover Page. See the bid proposal for discussion on award procedures.
- The only physical changes to the plans are as follows: revised fence layout as shown on the "L" drawings, and a reduction in bladder tank size to 1300 gallons and the addition of a second 1300 gal tank as Alternate 3 shown on the "P" drawing.
- No revisions have been made to the Electrical Drawings and therefore have retained their original drawing date.

Location Map



project directory

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PROJECT

**Veterans
Memorial Park -
Irrigation Design**

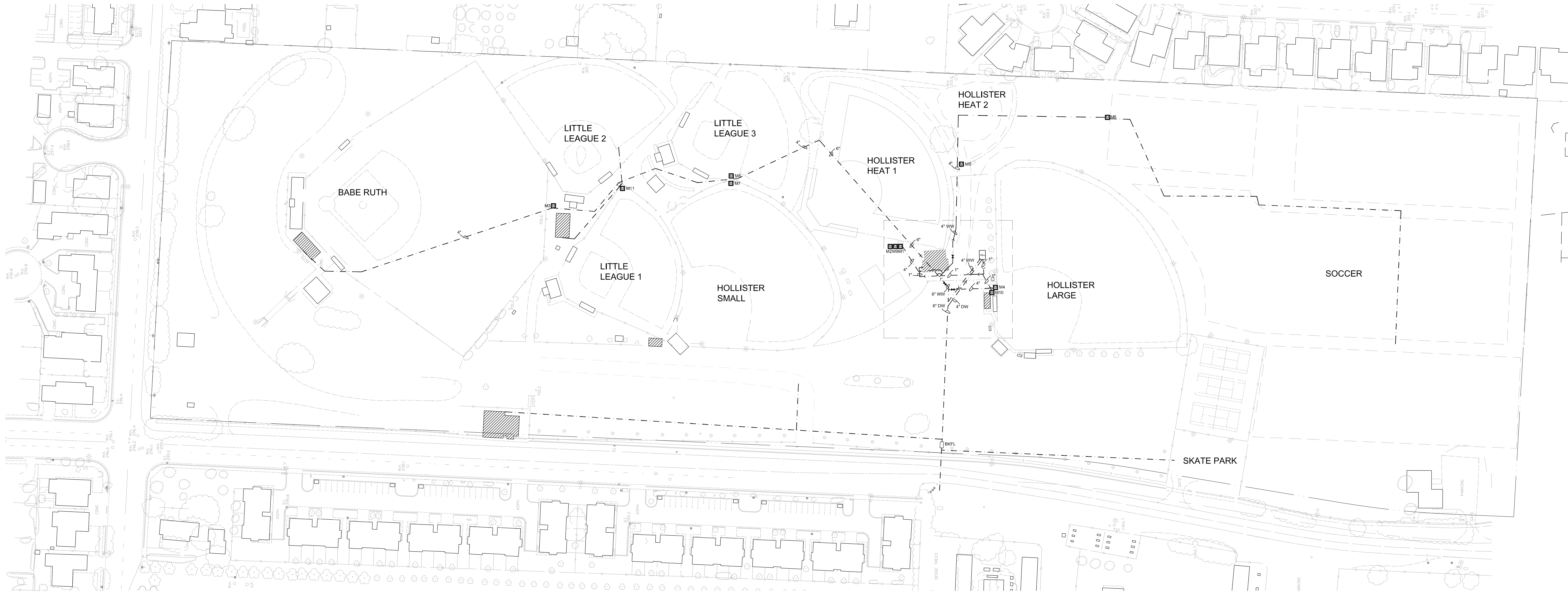
Hollister, California

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Project #: 16.044
Issuance: Bid Docs
Date: March 10, 2017

SHEET

Cover Sheet

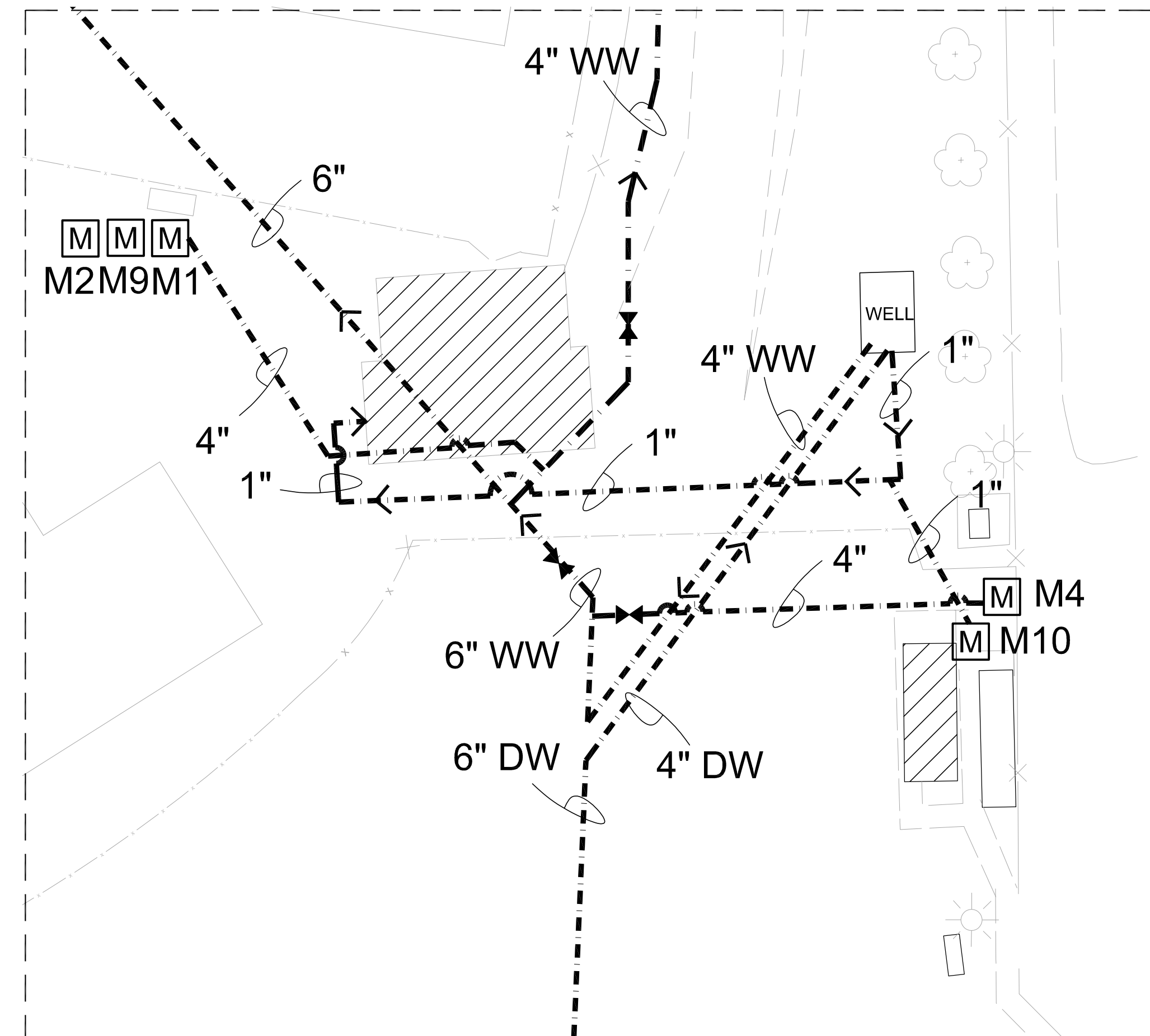
L-1.1



LEGEND:

--- Existing Irrigation Mainline

[M] Existing Irrigation Meter



ENLARGEMENT 1:20



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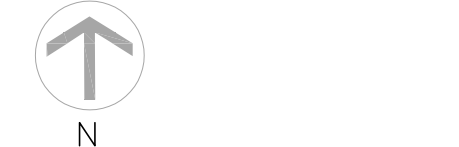
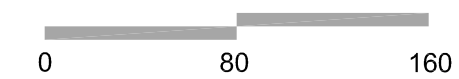
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PROJECT

Veterans
Memorial Park -
Irrigation Design

Hollister, California

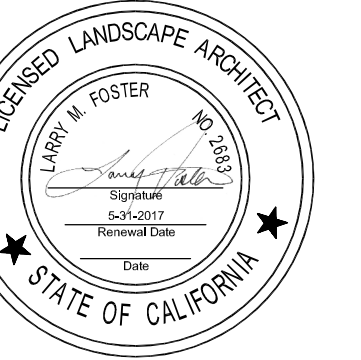


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SHEET

Existing Conditions
Plan

L-2.1



REFERENCE NOTES

- 1 Enlargement area: See below.
- 2 Demolish (E) fencing and gates. Install new chainlink fence (Alternate 2): See 1/L-4.1
- 3 New 12' wide gate: See 2/L-4.1 (Alternate 2)
- 4 Concrete pad at new tank: See Plumbing sheets. Pad shall be 6" deep, with #3 rebar 18" OC, both ways. Jointing shall be 5' OC, each way. Joints shall be sawcut.
- 5 Install 36"x36"x6" deep concrete pad under new discharch pipe.
- 6 New plumbing work: See Plumbing sheets.
- 7 New tank(s): See Plumbing sheets for more information, and Alternate 3.
- 8 See Electrical Drawings for work in this area. (Alternate 1)
- 9 Existing concrete pad to remain.

GENERAL NOTES

1. Fence and gate layout to be staked by contractor and reviewed in field by Owner, Architect, or Engineer.
2. See also Plumbing and Electrical Drawings for additional information.
3. New Electrical work shall be Alternate 1.
4. New Fencing and Gates shall be Alternate 2.
5. 2nd expansion tank shall be Alternate 3.

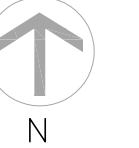
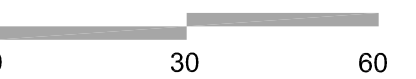
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ollister, California

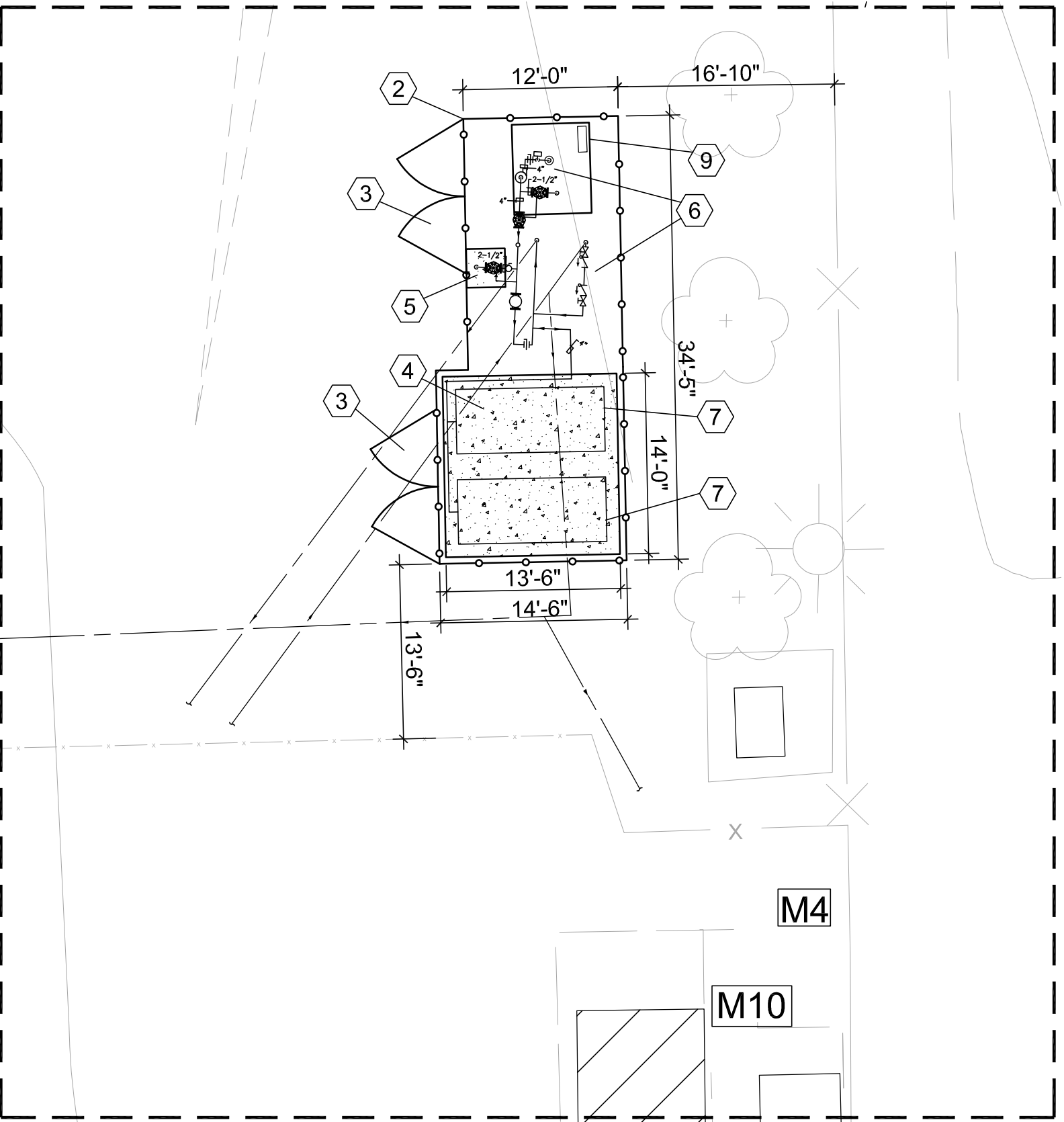


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Construction Plan

-3.1



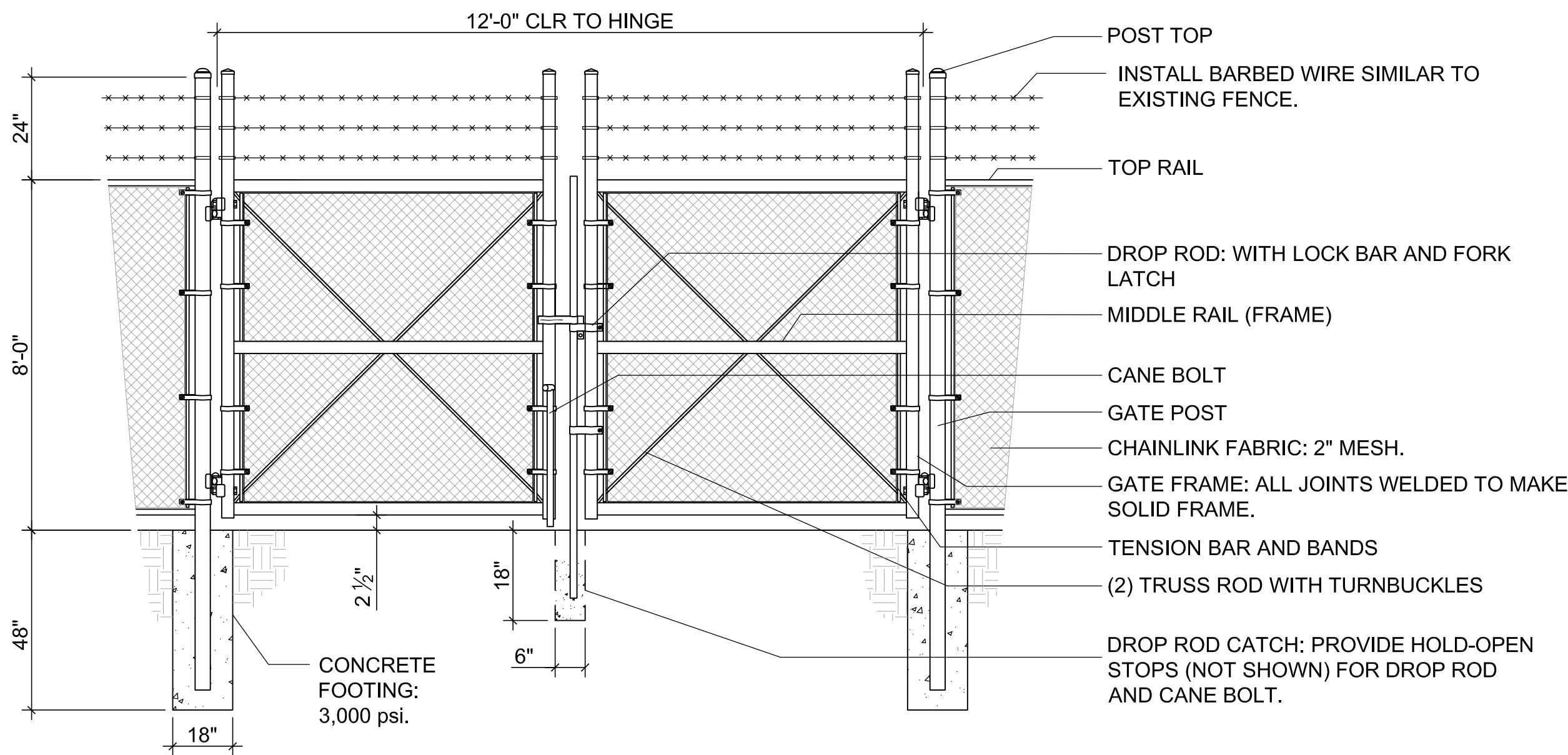
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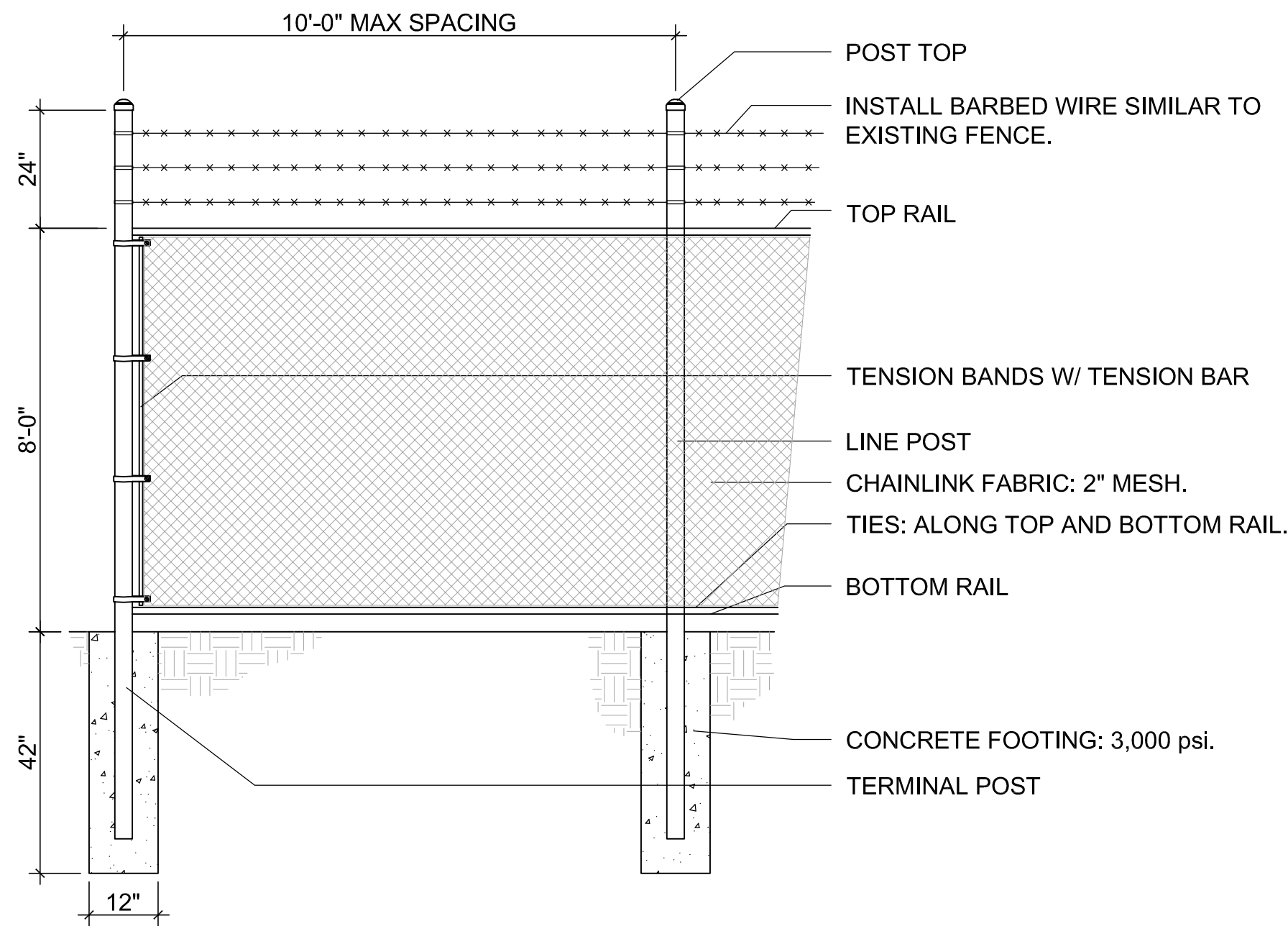
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Fittings: All fittings shall be zinc coated or hot dipped galvanized steel.

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H E E T

Construction details

-4.1

PLUMBING SPECIFICATION

1. SCOPE: PROVIDE PLUMBING SYSTEMS, INCLUDING ALL LABOR, EQUIPMENT, MATERIALS AND SERVICES.
2. COORDINATION: COORDINATE WITH GENERAL CONTRACTOR AND ALL OTHER TRADES.
3. CODES: THIS WORK SHALL CONFORM TO ALL LOCAL CODES, CALIFORNIA BUILDING CODE, CALIFORNIA MECHANICAL CODE AND CALIFORNIA PLUMBING CODE.
4. FEES: CONTRACTOR SHALL PAY ALL FEES IN CONNECTION WITH THIS WORK. CONNECTION CHARGES BY OWNER.
5. DRAWINGS: DRAWINGS ARE SCHEMATIC. ALL EQUIPMENT LOCATIONS SHALL BE VERIFIED IN THE FIELD AND APPROVED BY ARCHITECT.
6. MAINTENANCE: ALL EQUIPMENT SHALL BE ACCESSIBLE FOR MAINTENANCE.
7. GUARANTEE: ALL WORKMANSHIP, EQUIPMENT AND MATERIALS SHALL BE GUARANTEED FOR ONE YEAR AFTER DATE OF ACCEPTANCE.
8. SUBMITTALS: WITHIN 15 DAYS AFTER SIGNING A CONTRACT, PROVIDE SUBMITTALS ON ALL PLUMBING EQUIPMENT.
9. TESTING, ADJUSTING, AND CLEANING: TEST ALL PIPING, VALVES, ETC. AS LISTED BELOW AND PROVIDE THE LANDSCAPE ARCHITECT WITH CERTIFIED COPIES OF TEST RESULTS. THE INSPECTION AUTHORITY HAVING JURISDICTION AND THE SUPERVISING ARCHITECT SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO PERFORMANCE OF ALL TESTS SO THAT THEY MAY BE WITNESSED.

ALL WATER PIPING SHALL BE TESTED TO 150 PSIG WITH POTABLE WATER AND HELD FOR 2 HOURS WITHOUT DROP IN PRESSURE BEFORE IT IS COVERED AND CONCEALED. EQUIPMENT AND PERSONNEL SHALL BE PROTECTED FROM THIS TEST PRESSURE.

UPON COMPLETION OF THE WORK, CLEAN ALL EQUIPMENT AND PIPING INSTALLED UNDER THIS SECTION AND THOROUGHLY WASH AND POLISH ALL PLUMBING FIXTURES, FITTINGS AND TRIM, REMOVING LABELS THEREFROM.

10. VERIFICATION OF EXISTING CONDITIONS: IT SHALL BE ONE OF THE RESPONSIBILITIES UNDER THIS SECTION TO EXAMINE THE SITE OF WORK AND, AFTER INVESTIGATION, TO DETERMINE THE CHARACTER OF THE MATERIALS TO BE ENCOUNTERED AND THE EXISTING CONDITIONS AFFECTING THE WORK.
11. EXCAVATION AND BACKFILLING: EXCAVATION SHALL BE UNCLASSIFIED AND SHALL INCLUDE THE REMOVAL OF ALL BURIED OBSTRUCTIONS WITHIN THE AREA TO BE EXCAVATED. TRENCH TO REQUIRED DEPTHS. TRENCH TO BE FREE OF WATER.

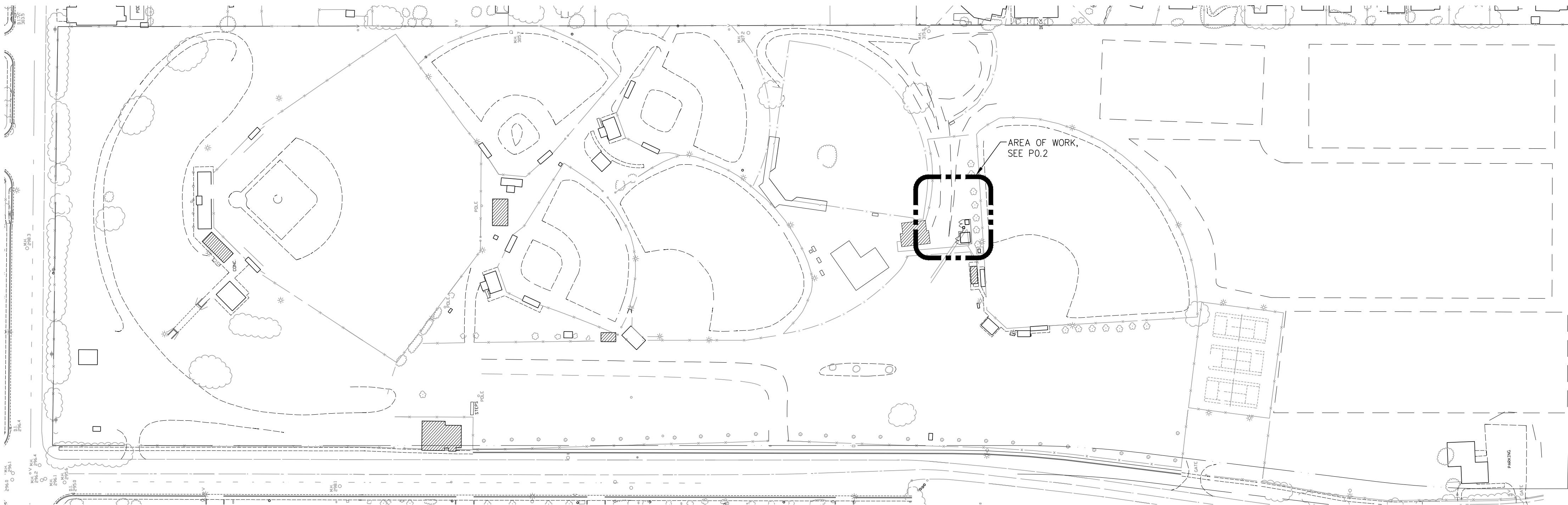
TAMP BOTTOM OF TRENCH. EXCAVATE BELL HOLES SO PIPE SHALL REST FOR ENTIRE LENGTH ON SOLID GROUND. REMOVE ALL ROCKS AND TAMP AND COMPACT 1/2" TO 1-1/2" BROKEN STONE OR GRAVEL SAND ON BOTTOM OF TRENCH BEFORE LAYING PIPE. INSTALLED PIPING TO BE TESTED, INSPECTED AND APPROVED FOR BACKFILL MATERIAL. MATERIAL: IMPORTED SANDY SOIL IN LAYERS NOT EXCEEDING 8". MOISTEN AND MACHINE TAMP TO ORIGINAL CONDITION. BACKFILL SHALL BE COMPACTED TO A DENSITY OF 95% AS DETERMINED BY THE LABORATORY TEST PROCEDURE IN ASTM D1557.
12. SERIALIZATION: BEFORE BEING PLACED IN SERVICE, ALL DOMESTIC COLD WATER DISTRIBUTION SYSTEMS SHALL BE SERIALIZED IN ACCORDANCE WITH THE AWWA STANDARD SPECIFICATION, LATEST EDITION AND AMENDMENTS. AFTER SERIALIZATION, THE SYSTEM SHALL BE FLUSHED WITH POTABLE WATER UNTIL THE SERIALIZATION RESIDUE IS WITHIN THE TOLERABLE LIMITS FOR DOMESTIC WATER.

PIPING NOTES

1. REMOVE ALL ABANDONED PIPING, EQUIPMENT, AND FIXTURES INTERFERING WITH NEW WORK WHETHER NEW WORK IS ARCHITECTURAL, STRUCTURAL, MECHANICAL, OR ELECTRICAL.
2. CONTRACTOR SHALL VERIFY THAT THE ELECTRICAL CONNECTIONS TO THE UNITS, INCLUDING CIRCUIT PROTECTION, CONFORM TO UNIT LABELS AND MANUFACTURER'S DIRECTIONS. WHERE WIRE SIZES SHOWN ON DRAWING EXCEED MANUFACTURER'S RECOMMENDATIONS, THE DRAWINGS SHALL GOVERN. ALL WIRING SHALL BE PER THE NATIONAL ELECTRICAL CODE.
3. ALL CONTROL WIRING SHALL BE IN CONDUIT. CONDUIT SHALL BE PROVIDED AND INSTALLED BY THE PLUMBING CONTRACTOR.
4. COORDINATE WITH OWNER ON SPACE REQUIRED AND TIME SCHEDULE FOR DELIVERY OF ALL ITEMS WHICH ARE TO BE GIVEN TO THE OWNER FOR HIS DISPOSITION.
5. LABEL ALL PIECES OF EQUIPMENT WITH MARK MATCHING SCHEDULE OR EQUIPMENT LIST WITH ENGRAVED PLASTIC LABELS WITH MINIMUM 1/4" HIGH LETTERS. LABELS EXPOSED TO WEATHER SHALL BE ENGRAVED BRASS.
6. PRIME AND PAINT ALL EXPOSED PIPING IN COLOR SELECTED BY OWNER.
7. ALL PIPING, VALVES, EQUIPMENT, ETC. SHOWN IS NEW UNLESS OTHERWISE NOTED.
8. ALL PIPING SHALL BE SCHEDULE 40 BLACK STEEL. FITTINGS FOR PIPING 2" AND SMALLER SHALL BE SCREWED CONNECTIONS; FITTINGS FOR PIPING 2'-1/2" AND LARGER TO BE FLANGE CONNECTIONS.

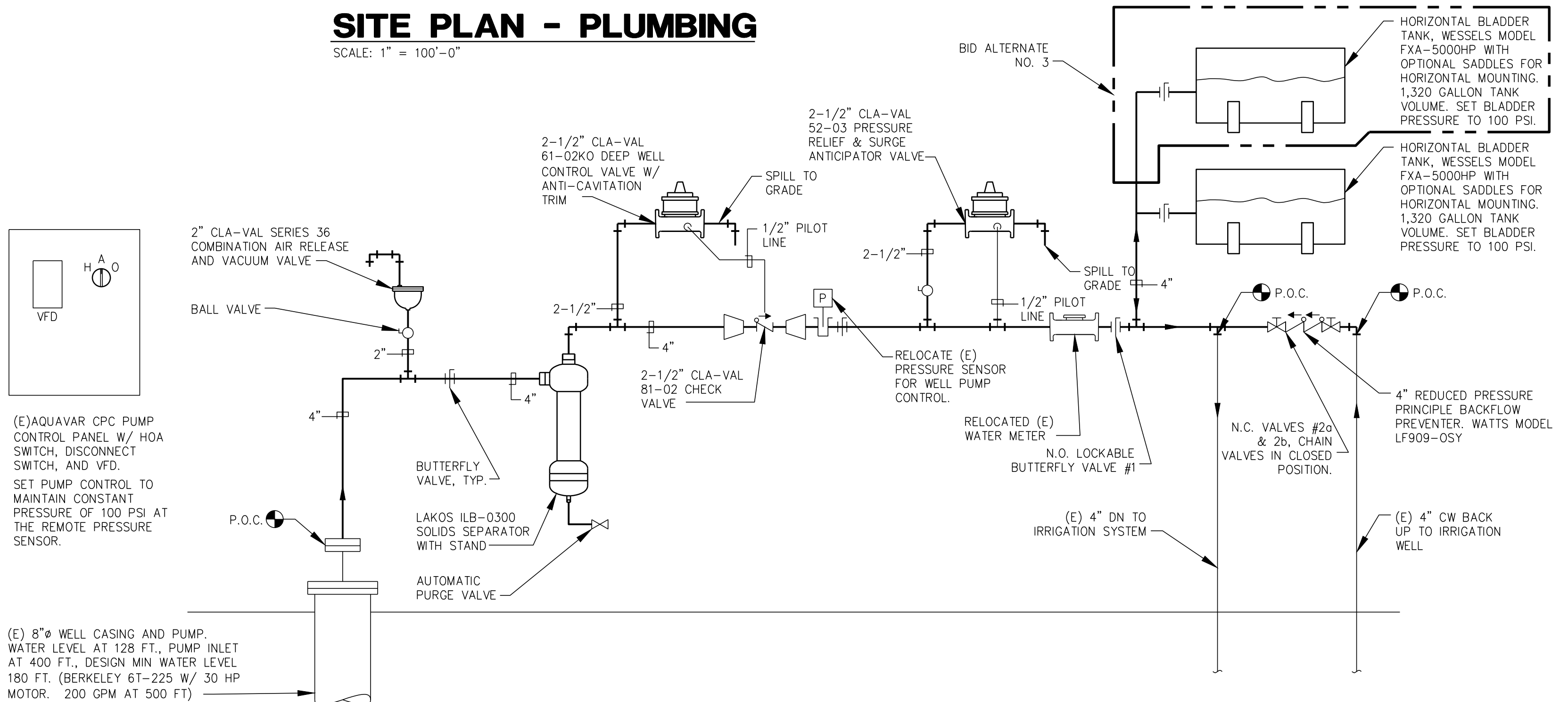
PLUMBING LEGEND

SYMBOL		ABBRV.	IDENTIFICATION	ABBRV.	IDENTIFICATION
	CW		COLD WATER (DOMESTIC)	COORD	COORDINATE
	HW		HOT WATER	DN	DOWN
	HWR		HOT WATER RETURN	DWGS	DRAWINGS
	V		VENT	(E)	EXISTING
	G		GAS (7"WC)	MIN	MINIMUM
	S OR W		SOIL OR WASTE ABOVE GRADE	(N)	NEW
	S OR W		SOIL OR WASTE BELOW GRADE	VTR	VENT THROUGH ROOF
			RISE UP	W/	WITH
	ELL		ELBOW DOWN		
	TEE		TEE DOWN		
	F		CAP		
	CONT		CONTINUATION		
			BALL VALVE		
			UNION		
	WHA		WATER HAMMER ARRESTOR		
	HB		HOSE BIBB		
	GCO/FCO		GRADE CLEAN-OUT/FLOOR CLEAN-OUT		
	WCO		WALL CLEAN-OUT		
			THERMOMETER		
	P.O.C.		POINT OF CONNECTION		



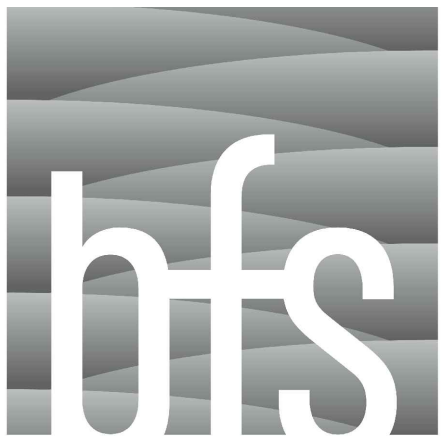
SITE PLAN - PLUMBING

SCALE: 1" = 100'-0"



IRRIGATION SYSTEM SCHEMATIC


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AE Project # : 20160119

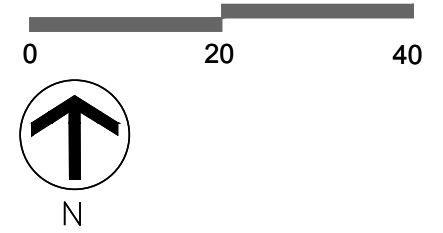
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Hollister, California

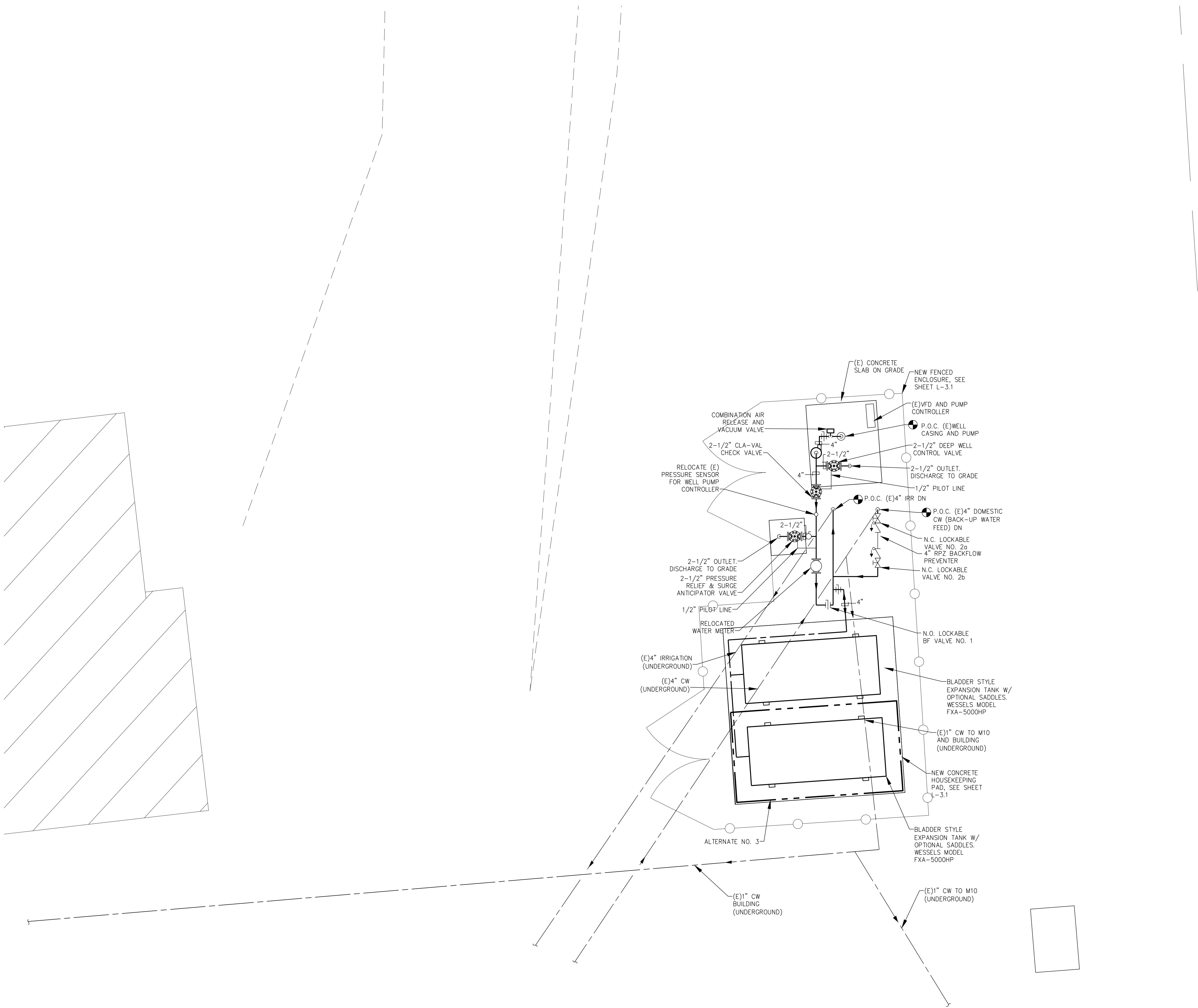


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File:
Project #: 16.044
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LEGEND, NOTES AND SITE PLAN - PLUMBING

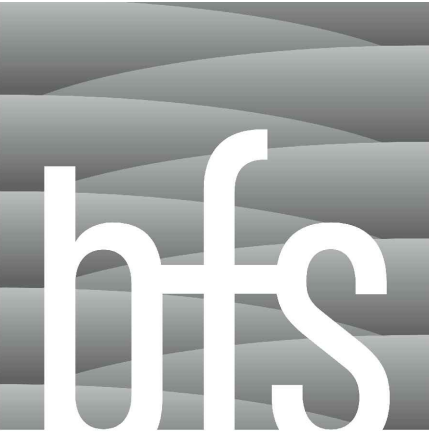
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PARTIAL SITE PLAN - PLUMBING

SCALE: 1/4" = 1'-0"



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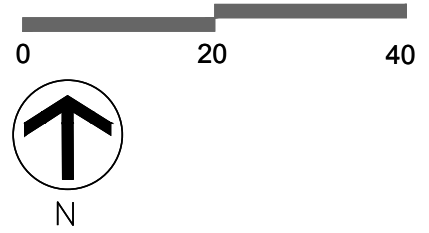
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PROJECT

Veterans
Memorial Park -
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Hollister, California



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SHEET

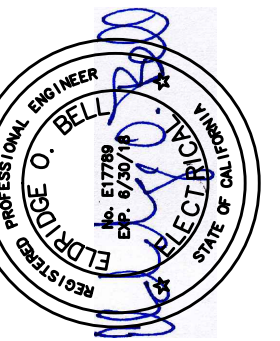
PARTIAL
SITE PLAN
AND DETAILS -
PLUMBING

P-0.2



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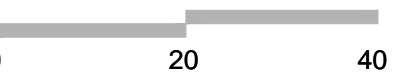
E V I S I O N S

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R O J E C T

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H E E T

OVERALL
SITE PLAN

E2.0



