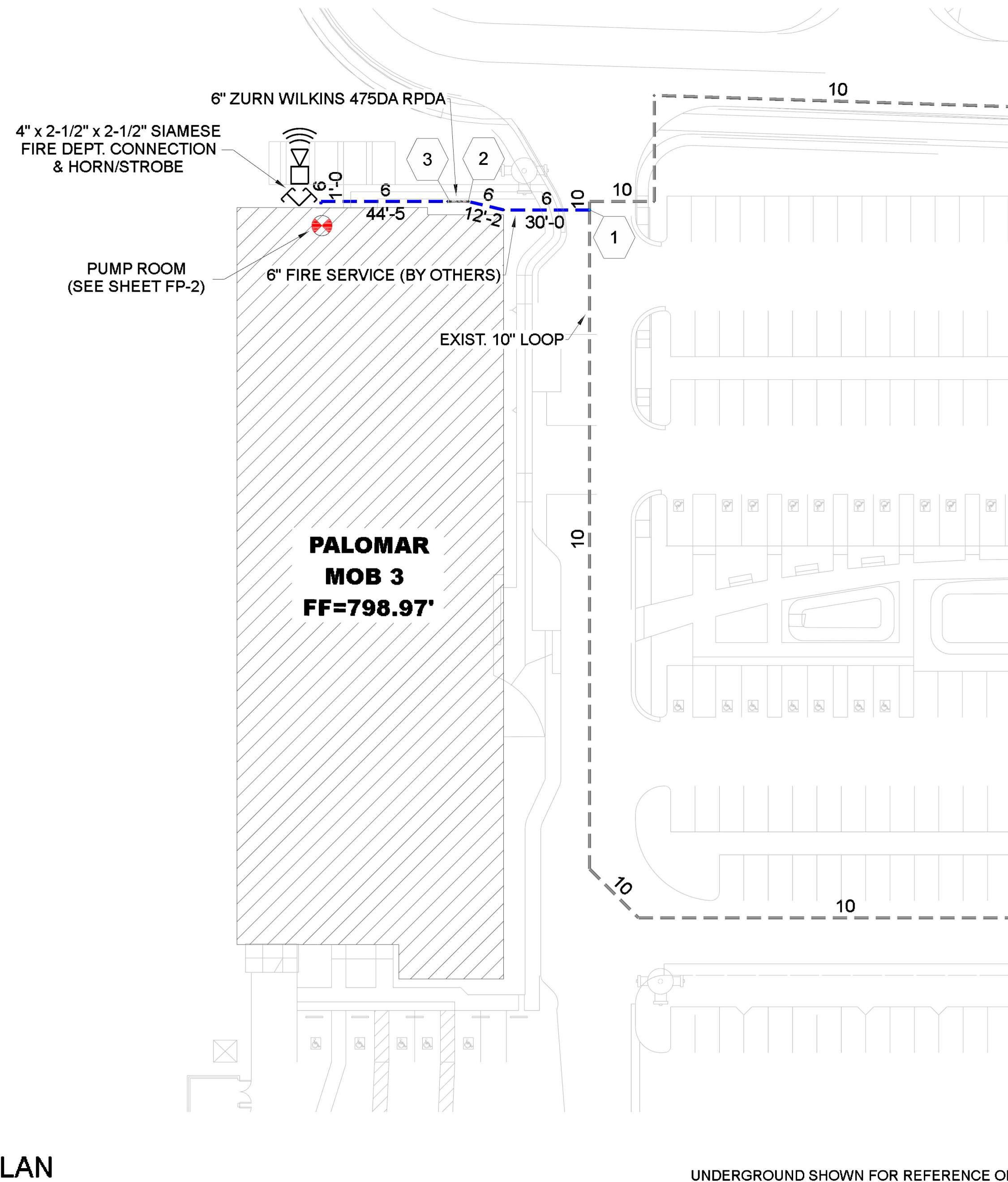


PALOMAR HEALTH MEDICAL CENTER

No. 3 MEDICAL OFFICES BUILDING

2127 CITRACADO PARKWAY, ESCONDIDO, CA 92029



SITE PLAN

SCALE: 1" = 30'-0"

THESE SHEETS ARE NOT APPROVED FOR THE INSTALLATION OF ANY UNDERGROUND FIRE PROTECTION SYSTEM PIPING AND A SEPARATE SUBMITTAL TO THE CFSM FOR REVIEW AND APPROVAL IS REQUIRED BY THE INSTALLING C-16 LICENSED FIRE PROTECTION CONTRACTOR PRIOR TO THE INSTALLATION OF ANY FIRE PROTECTION COMPONENTS.

*ALL UNDERGROUND PIPING INCLUDING THE FIRE SERVICE ASSEMBLY ON SITE HYDRANTS & FDC ARE EITHER EXISTING OR BEING INSTALLED BY OTHERS.

NOTE: THE AUTOMATIC SPRINKLER SYSTEM WILL BE MONITORED BY AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH CBC 901.6.1 NOTE: ALL VALVES SHALL BE MONITORED PER CFC SECTIONS 903.4

UNDERGROUND SHOWN FOR REFERENCE ONLY

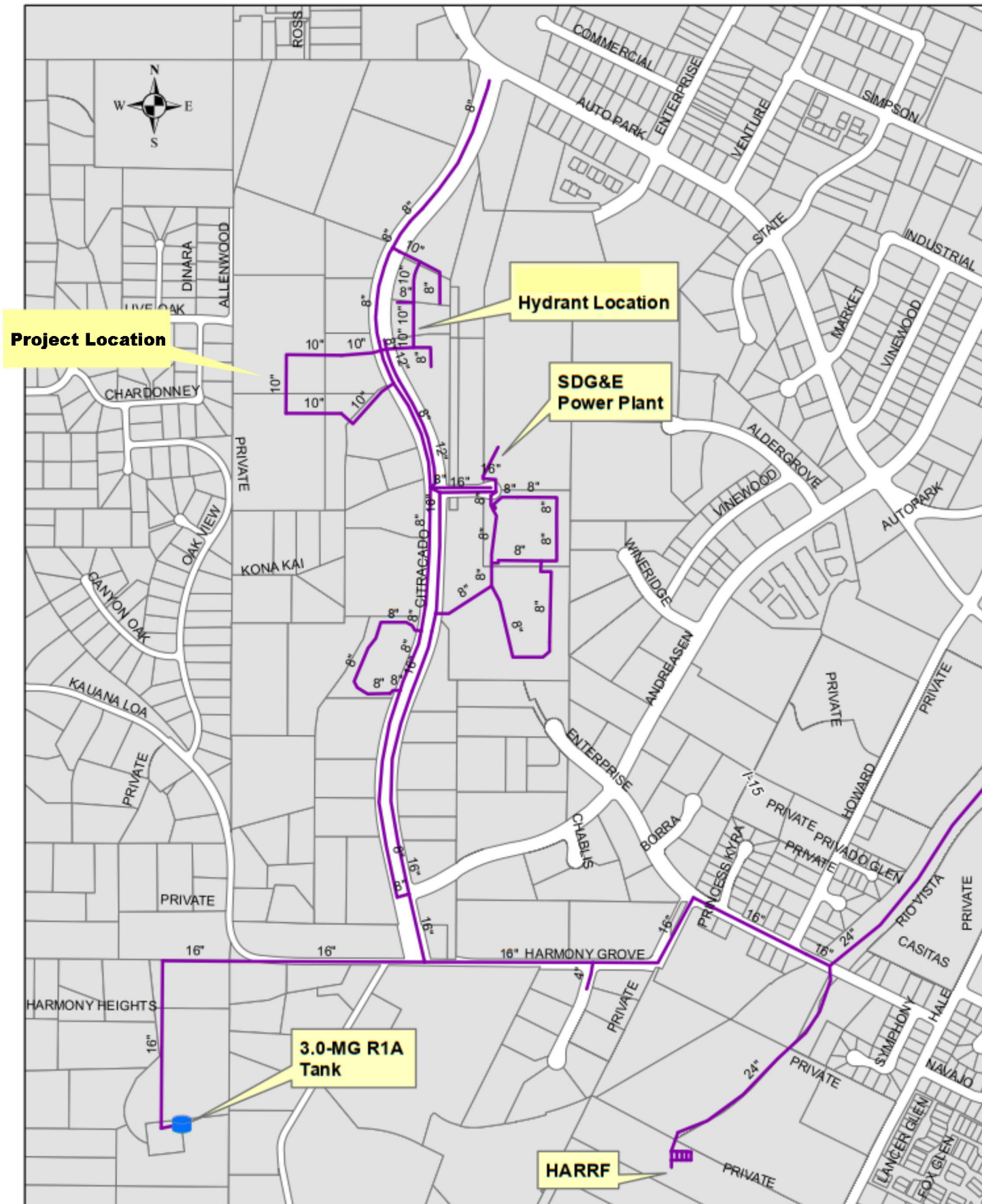


Figure 2 - Recycled Water System
Palomar Medical Center Lots 2-5

FIRE FLOW ANALYSIS FOR PALOMAR MEDICAL CENTER LOTS 2-5

General Policy Statement

This hydraulic analysis is premised upon current criteria. It is not a representation, expressed or implied, that the Rincon del Diablo Municipal Water District (District) will furnish water at a future date. Applications for service are governed by separate rules and regulations, and are the subject of separate District proceedings, apart from hydraulic analysis.

The location of existing improvements and the recommendations of this hydraulic analysis are presented in schematic form only. It is the responsibility of the Developer/Engineer to design the final improvements, including independent investigation of existing conditions.

The results should be considered approximate and are based upon a hydraulic model of the District's distribution system. Actual conditions and results may vary from what is assumed in the model. This analysis is only applicable to Palomar Medical Center Lots 2-5 (Project).

Introduction and Purpose

The Project within the District and City of Escondido (City) consists of 3 lots along the east side of Citracado Parkway south of Auto Park Way within the Escondido Research and Technology Center (ERTC) (see Figure 1). The proposal consists of multi-story medical office buildings to support the Palomar Hospital.

The District's recycled water system in the ERTC area includes the ability to provide fire flow. The analysis is for the District's recycled water system and includes a 2,500 gallon per minute (gpm) fire flow onsite.

Approach

Analysis of the proposed facilities is carried out using an InfoWATER® recycled water distribution system computer model updated for the integrated City and District system. In the model, the system is characterized by a series of links (pipes) and nodes (connection points). Links and nodes can also represent reservoirs, pump stations, and pressure reducing valves.

This analysis is not intended to size onsite facilities, but rather to determine if any offsite improvements would be necessary in order to supply a peak demand plus fire flow condition.

Source of Water

The ERTC is located within the City's main recycled water pressure zone, which is supplied by the Hale Avenue Resource Recovery Facility (HARRF) pump station. This station has a rated capacity of 6,240 gpm. Storage for the Project and ERTC is provided in the converted 3.0-MG R1 Tank south of Kauana Loa Drive to the west of HARRF and south of the Project.

Shown schematically on Figure 2 is a portion of the existing recycled water distribution system in the ERTC area.

Palomar Medical Center Lots 2-5 - Fire Flow Analysis

Demands

Peak recycled water demands within the ERTC, which typically occur between 9 PM and 6 AM, were derived from landscape improvement plans. The SDG&E Power Plant just south of the Project has an average demand between 1,400 and 2,200 gpm with a peak demand of 5,000 gpm. As part of this analysis, the average flow range must be maintained during a fire flow condition.

Design Criteria

The minimum desirable pressure during a maximum day plus fire condition is 20 psi and the maximum velocity is 10 fps in the vicinity of the fire flow demand. In addition, flow to the SDG&E Power Plant must be maintainable between 1,400 and 2,200 gpm.

Results

Based on an approximate elevation of 802 feet and a maximum HGL of 958 feet at the R1 Tank, the maximum static pressure is approximately 68 psi.

Using the 2,500 gpm onsite fire flow, results show that the system can maintain pressures above 20 psi and velocities less than 15 fps. Additionally, a flow of 2,200 gpm was maintained to the SDG&E Power Plant.

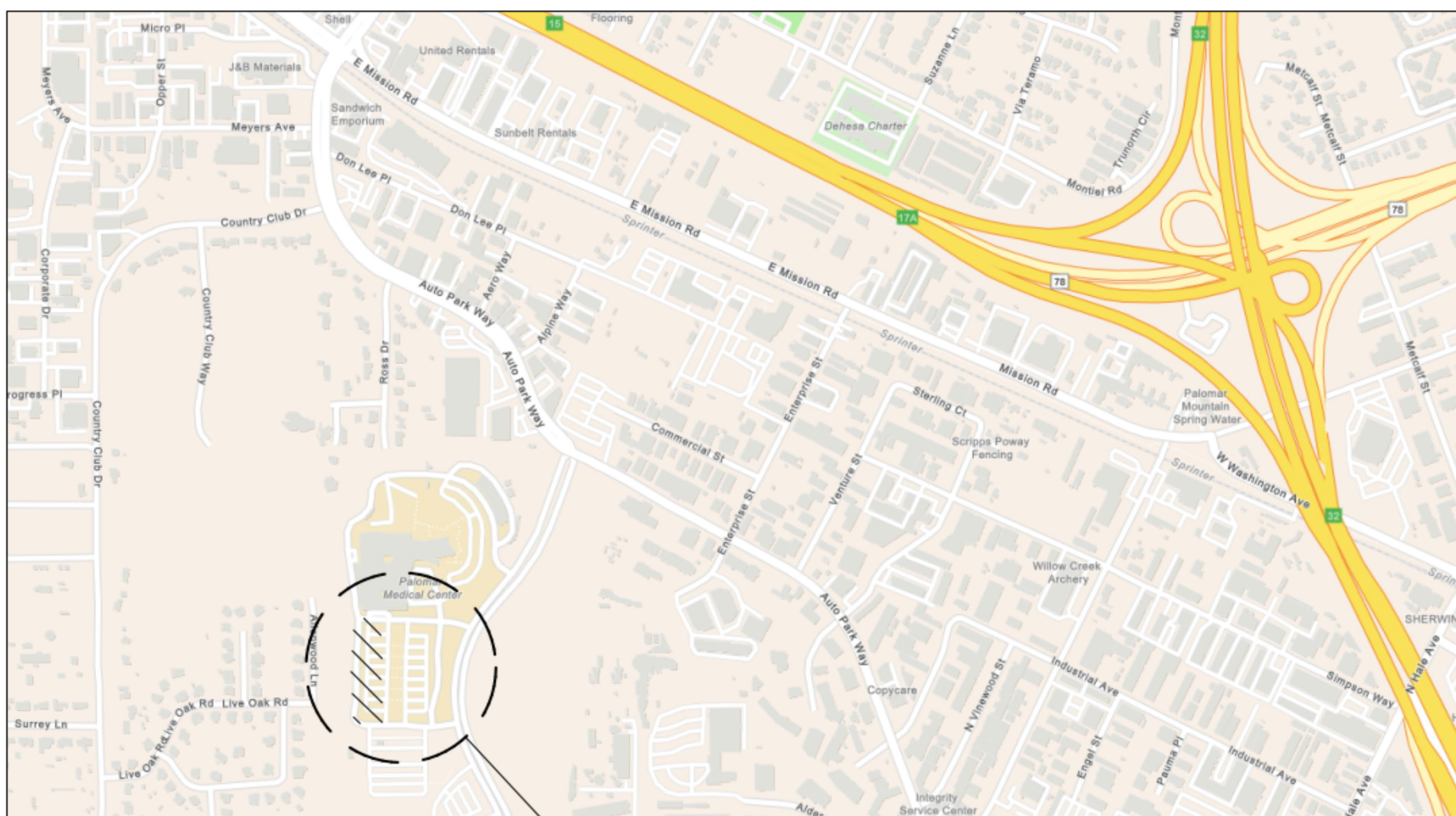
Minimum Pressure: 32.2 psi at Node 161 (onsite fire)

Maximum Velocity: 9.4 fps at Pipe 122

Results are provided in detail in the Appendix

FLOW TEST INFORMATION USED:
STATIC: 81 PSI (68 PSI REDUCED 10%)
RESIDUAL: 30 PSI
FLOW: 2500 GPM

VICINITY MAP



PROJECT LOCATION



GENERAL NOTES:

- THIS FIRE SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA #13 (2016) EDITION, AND ALL APPLICABLE STATE AND LOCAL CODES AND THE ESCONDIDO FIRE DEPARTMENT.
- ALL MATERIAL SHALL BE UL LISTED AND/OR FM APPROVED FOR FIRE PROTECTION USE.
- ALL GROOVED PIPING SHALL BE SCHEDULE 10 BLACK STEEL.
- ALL THREADED PIPING SHALL BE SCHEDULE 40 BLACK STEEL.
- ALL PIPING SHALL MEET OR EXCEED STANDARDS ASTM A 135/795 & ANSI/ASTM A 53.
- ALL THREADED FITTINGS ARE TO BE DUCTILE IRON OR CAST IRON AND MEET OR EXCEED STANDARDS ASME B 16.3 & ASME 16.4.
- PIPE JOINED WITH GROOVED COUPLINGS SHALL BE JOINED BY A LISTED COMBINATION OF COUPLINGS, GASKETS, AND GROOVED DIMENSIONS.
- GROOVED FLEXIBLE COUPLINGS SHALL BE INSTALLED WITHIN 24" OF THE TOP & BOTTOM OF ALL RISERS.
- GROOVED CONNECTIONS OF FITTINGS AND VALVES, AND GROOVES CUT OR ROLLED ON PIPE SHALL BE DIMENSIONALLY COMPATIBLE WITH THE COUPLINGS.
- ALL WELDED OUTLETS TO BE UL LISTED WELDED BRANCHLETS (GROOVED OR FEMALE THREADED OUTLET).
- ALL WELDING PER NFPA 13, 2016 SECTION 6.5.2.
- ALL FIRE PROTECTION WORK SHALL BE DONE IN A NEAT AND PROFESSIONAL MANNER.
- PENDANT SPRINKLERS INSTALLED IN SUSPENDED CEILINGS SHALL BE LOCATED IN THE CENTER (QUARTER POINT U.N.O.) OF THE TILE ± 1".
- ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES ARE TO BE FIRE CAULKED TO MAINTAIN RATING. SEE ARCHITECT PLANS FOR FIRE CAULKING AND ACCESS PANEL DETAILS IF APPLICABLE.
- ALL PIPE SUPPORTS AND BRACING TO BE PER NFPA 13, 2016 EDITION AND OSFM REQUIREMENTS.
- ELECTRICAL WIRING, CORROSION PROTECTION, DETECTION, & SUPERVISION NOT PART OF THIS CONTRACT AND PROVIDED BY OTHERS.
- WFP NOT RESPONSIBLE FOR STRUCTURAL CAPACITY OF BUILDING TO SUPPORT THE SPRINKLER SYSTEM.
- UPON COMPLETION OF THE FIRE SPRINKLER SYSTEM, A SATISFACTORY TEST OF THE NEW PIPING SHALL BE MADE IN THE PRESENCE OF THE APPLICABLE AUTHORITIES HAVING JURISDICTION.
- SYSTEM SHALL BE HYDROSTATICALLY TESTED AT NOT LESS THAN 200 PSI FOR 2 HOURS, OR 50 PSI IN EXCESS OF THE MAXIMUM PRESSURE, WHEN THE MAXIMUM PRESSURE TO BE MAINTAINED IN THE SYSTEM IS IN EXCESS OF 150 PSI.
- A MINIMUM OF 72 HOURS NOTICE SHALL BE REQUIRED FOR ANY INSPECTION AND/OR TESTING.
- A STAMPED SET OF APPROVED DRAWINGS SHALL BE ON THE JOBSITE AND USED FOR INSTALLATION. ANY DEVIATION FROM APPROVED PLANS, INCLUDING THE SUBSTITUTION OF COMPONENTS, SHALL BE APPROVED BY THE APPLICABLE AUTHORITIES HAVING JURISDICTION.
- ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD.
- A PERMANENTLY ATTACHED NAMEPLATE WITH NECESSARY INFORMATION REGARDING THE SPRINKLER SYSTEM SHALL BE PROVIDED AND SECURED TO THE RISER WITH DURABLE WIRE O, CHAIN, OR EQUIVALENT.
- ALL UNDERGROUND SHOWING IS FOR "HYDRAULIC REFERENCE ONLY". WESTERN FIRE PROTECTION TO START FROM 6" FLANGE INSIDE PUMP ROOM.

SCOPE OF WORK:

TO DESIGN A NEW THREE ZONE WET AUTOMATIC FIRE SPRINKLER SYSTEM IN THE NEW PALOMAR MEDICAL CENTER. FIRE PUMP WILL SUPPLY FEED RISER WITH ZONE CONTROLS IN STAIR #2. WESTERN FIRE PROTECTION POINT OF CONNECTION IS THE UNDERGROUND SUPPLY FLANGE @ 6" +/- ABOVE GRADE.

DESIGN CRITERIA:
1ST - 3RD FLOORS 0.15/1500 SQ. FT. ORD. HAZARD GRP I
0.10/1500 SQ. FT. LT. HAZARD @ OFFICE, COMMON AREAS, & RESTROOMS

APPLICABLE CODES:

ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING CODES AND STANDARDS AS ADOPTED BY THE GOVERNING AUTHORITIES

- 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24, CCR
- 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, CC BASED ON THE 2018 INTERNATIONAL BUILDING CODE (IBC)
- 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24, CCR
- 2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, CCR
- 2019 CALIFORNIA PLUMBING CODE (UPC), PART 5 TITLE 24, CCR
- 2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, CCR
- 2019 CALIFORNIA ENERGY CODE (CEC)
- 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CGC), PART 11, TITLE 24 (CAL GREEN)
- 2016 NFPA 13 & 20

BUILDING CODE DATA:

BUILDING ADDRESS:
2127 CITRACADO PARKWAY,
ESCONDIDO, CA 92029

ASSESSOR PARCEL #:
232-590-15 AND 232-591-29

PROPOSED USE: MEDICAL OFFICE BUILDING

CONSTRUCTION TYPE: TYPE II-A

OCCUPANCY TYPE:
1ST AND 2ND FLOORS 1-2.1 (OUT-PATIENT MEDICAL OFFICE) OR B (OFFICE)
3RD FLOOR B (OFFICE)

BUILDING AREA:
1ST FLOOR: 24,297 SQ. FT.
2ND FLOOR: 23,747 SQ. FT.
3RD FLOOR: 23,612 SQ. FT.
TOTAL: 71,656 SQ. FT.

BUILDING ACTUAL HEIGHT:
TOTAL OF 3 STORIES
47'-0" BLDG. PARAPET HEIGHT
TOWER HEIGHT 58'-8"

SHEET INDEX

- FP-1 1 OF 6 SITE PLAN & GENERAL NOTES
- FP-2 2 OF 6 PUMP DETAILS & NOTES
- FP-3 3 OF 6 FIRE SPRINKLER LEVEL 1 PIPING PLAN & RCP
- FP-4 4 OF 6 FIRE SPRINKLER LEVEL 2 PIPING PLAN & RCP
- FP-5 5 OF 6 FIRE SPRINKLER LEVEL 3 PIPING PLAN & RCP
- FP-6 6 OF 6 BUILDING SECTION & SEISMIC DETAILS

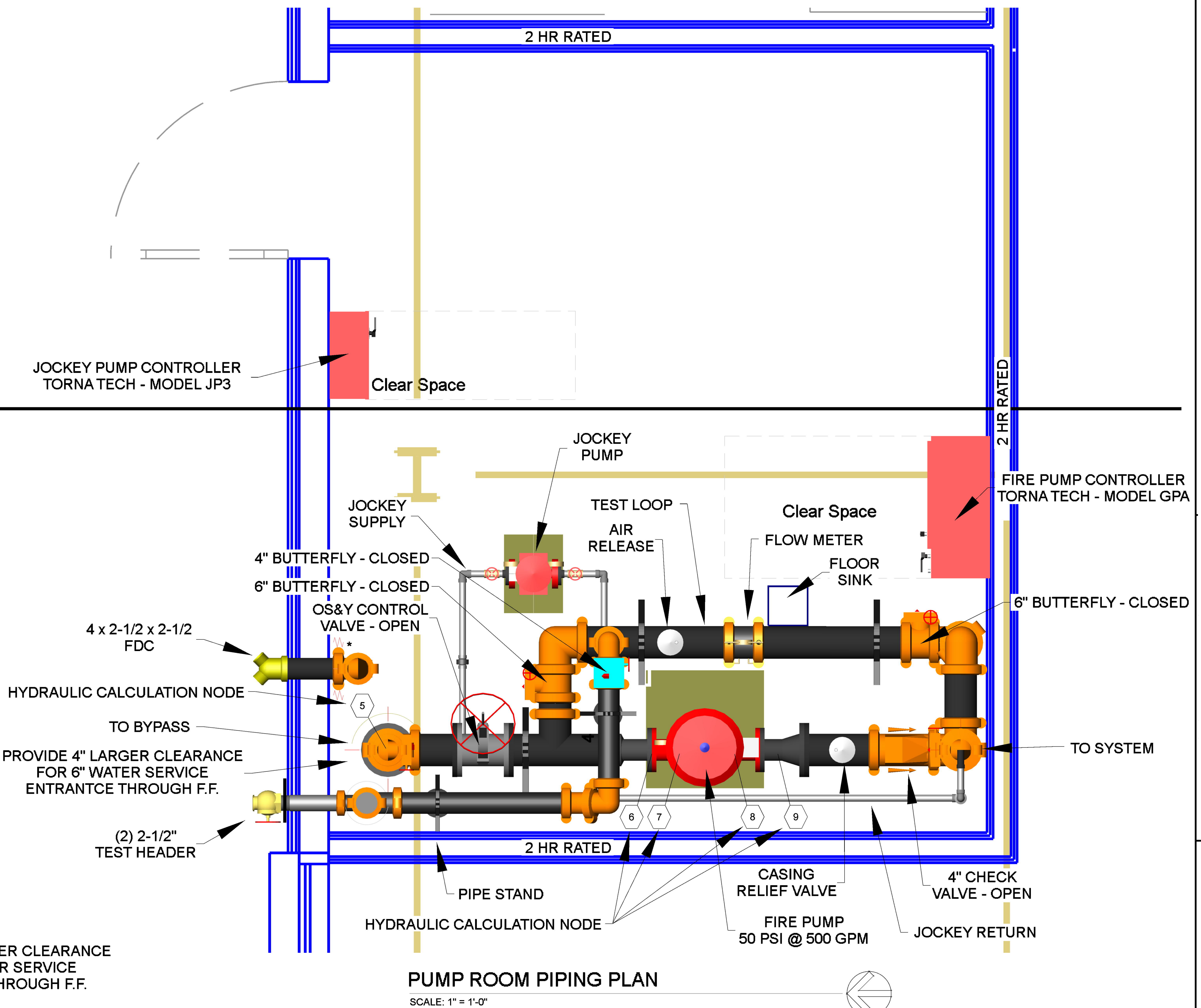
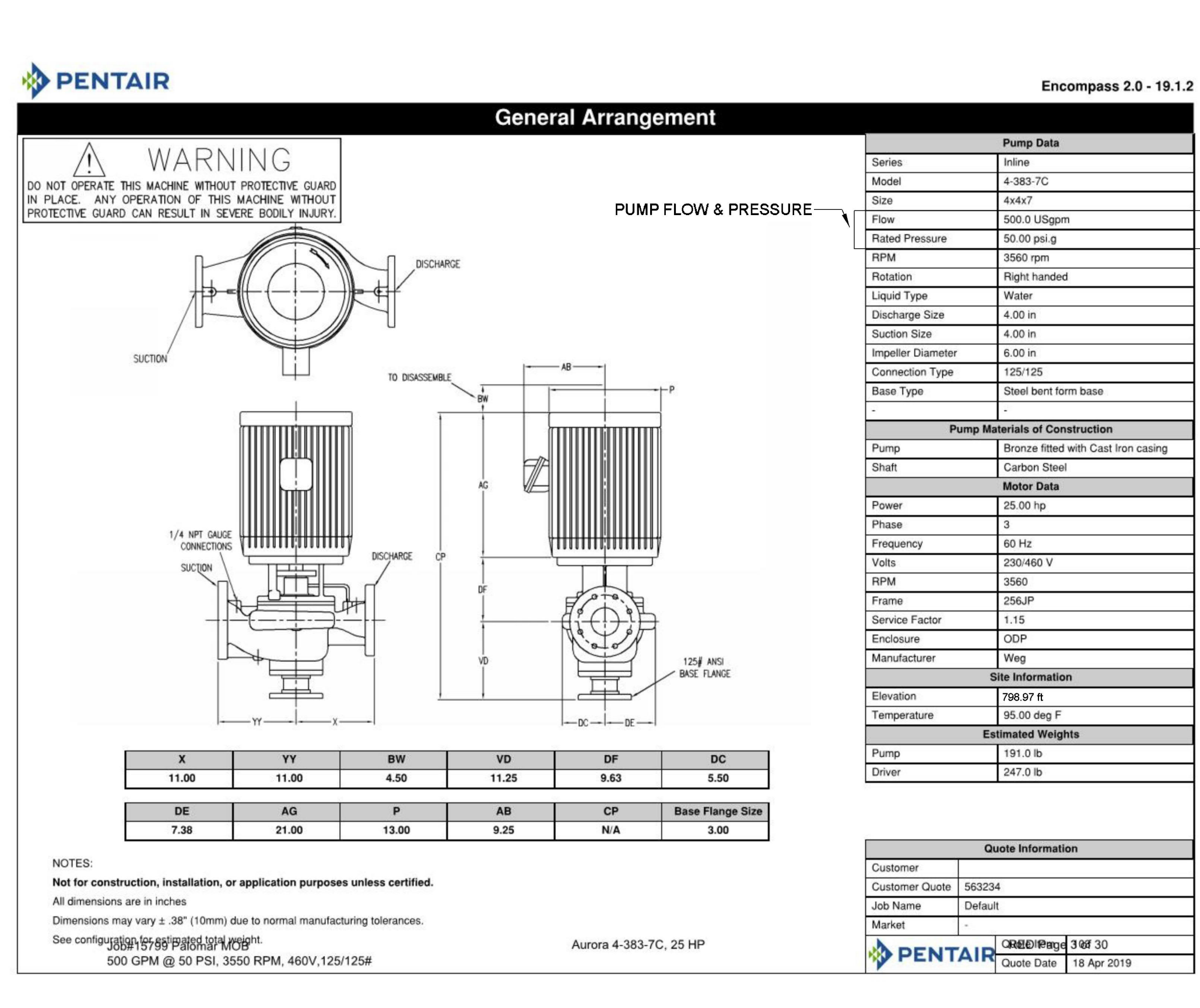
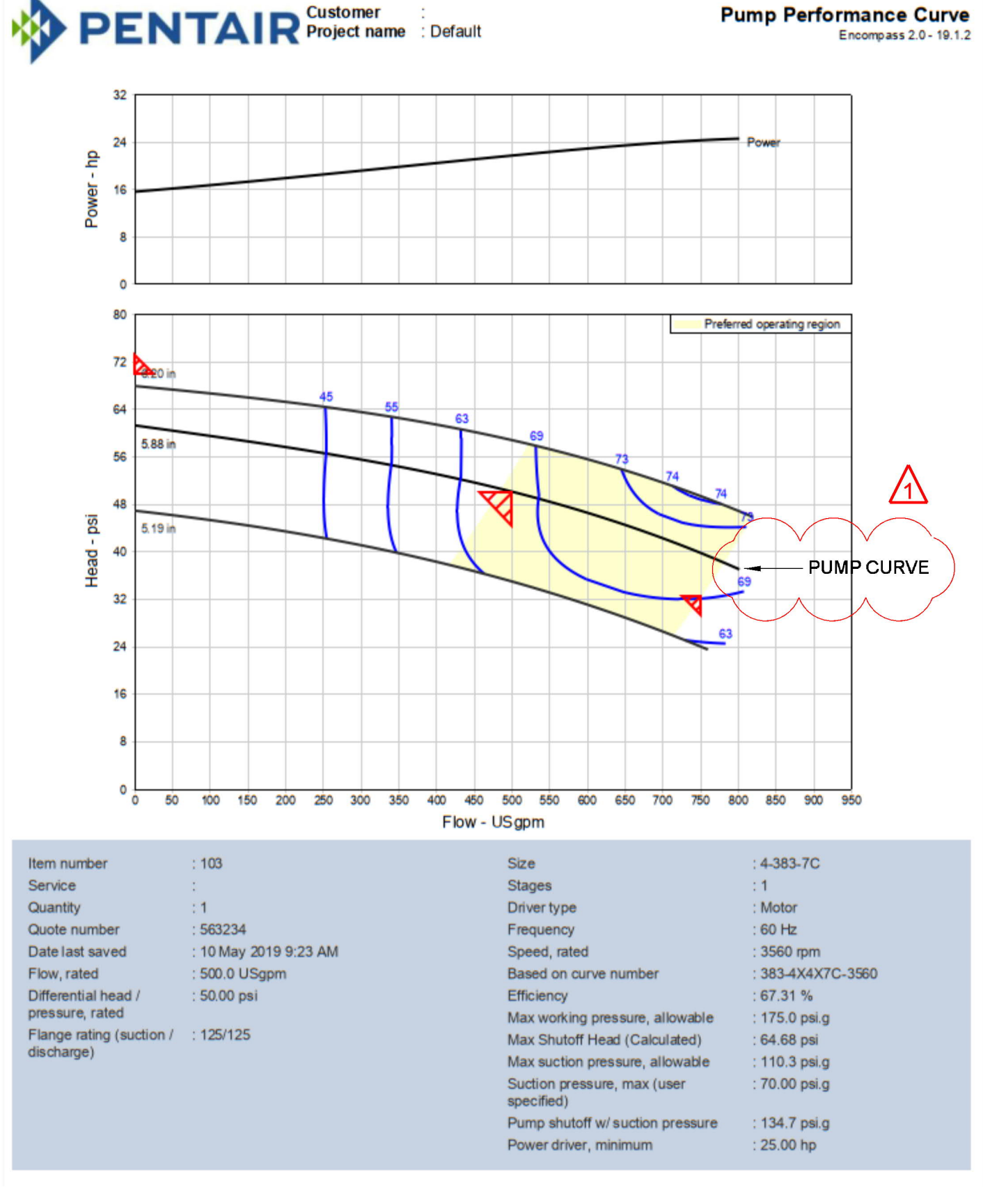
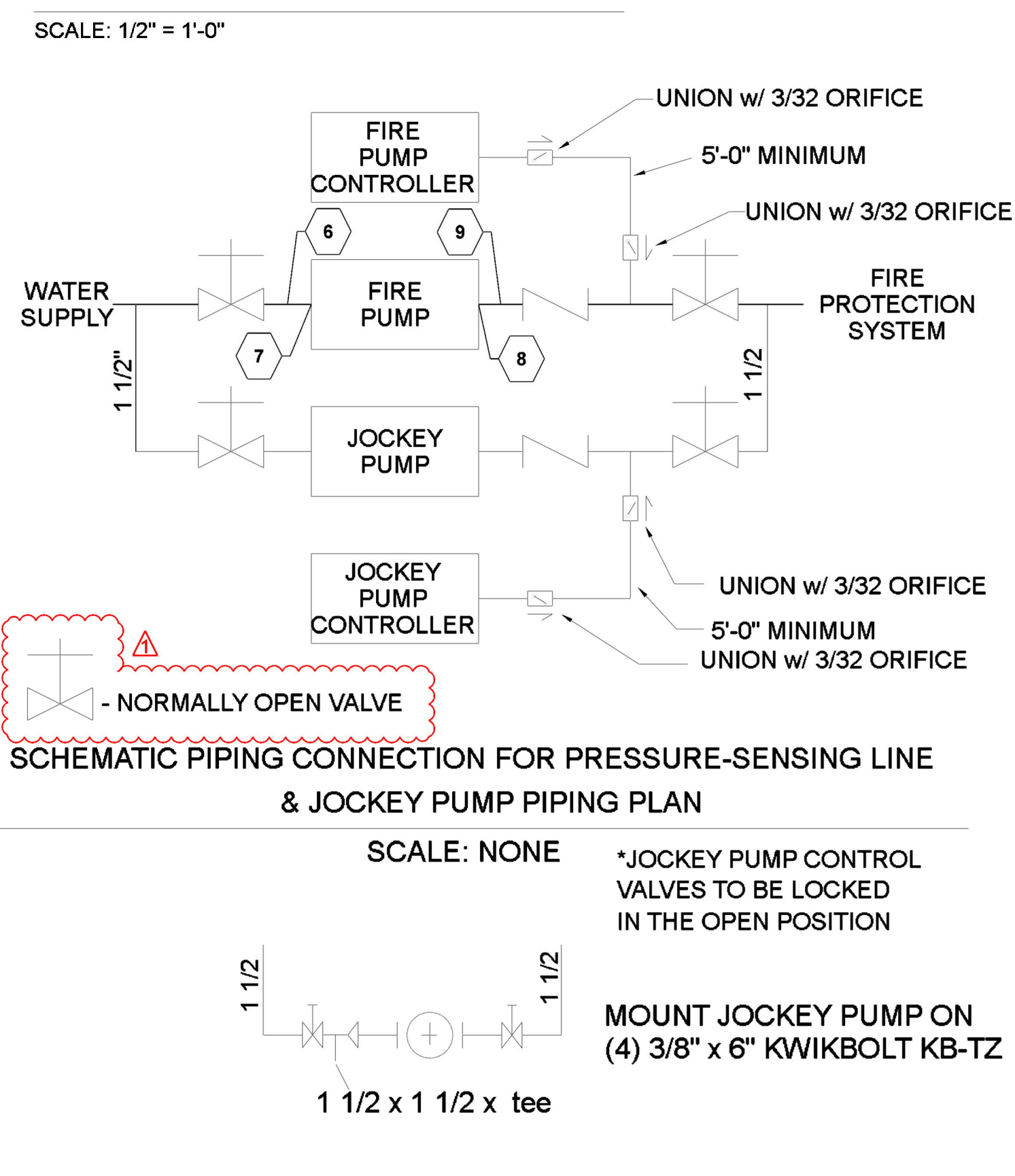
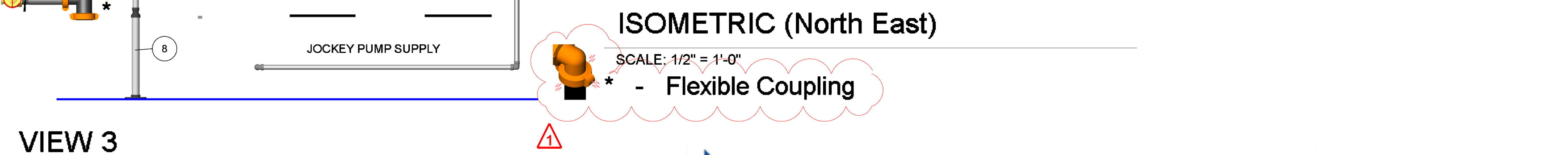
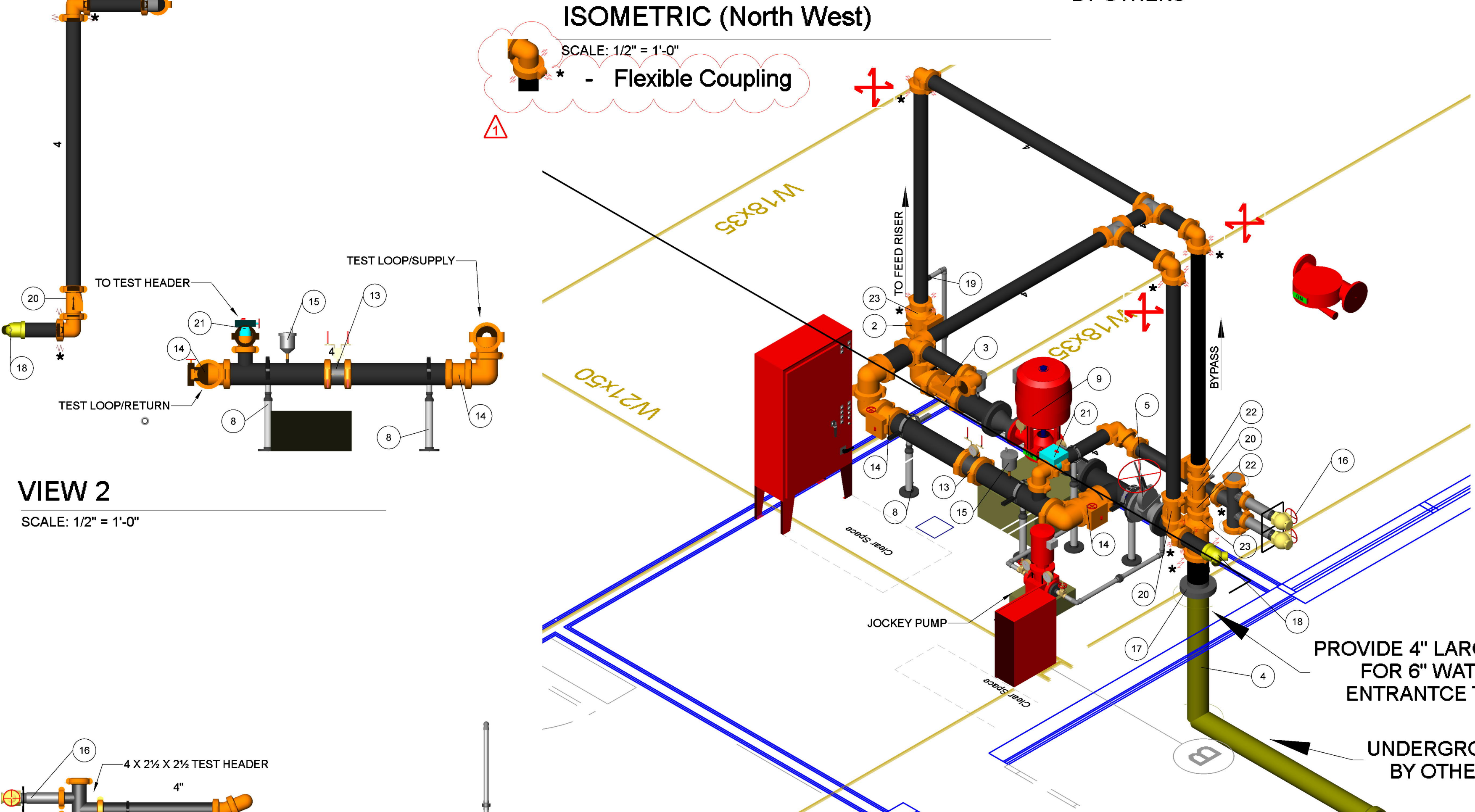
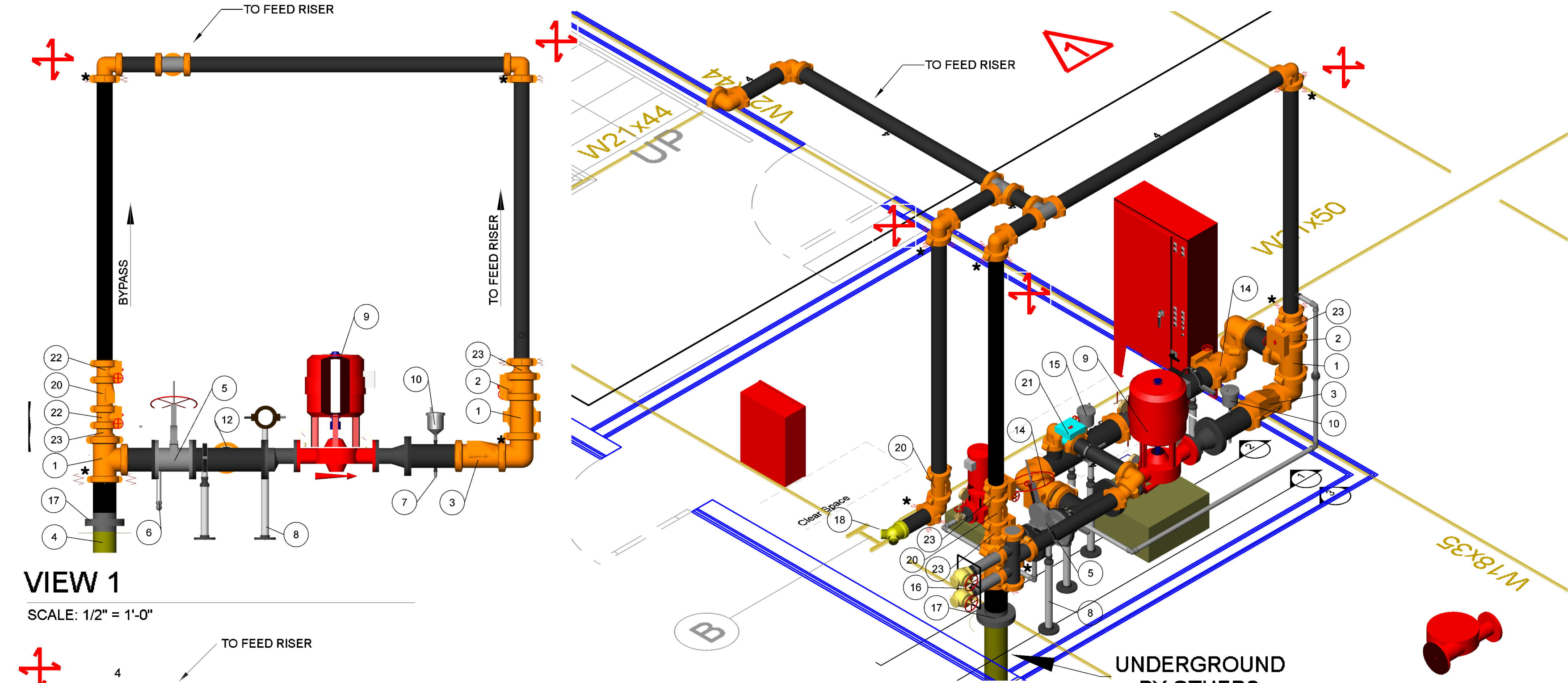
Sprinkler Legend - Entire Project				
Manufacturer	Model	Type	Response	Finish Temp
Vitacalic	VZ704	5.6 Upright	1/2" Quick	200°F SPRIG
Vitacalic	VZ704	5.6 Upright	1/2" Quick	200°F HEADGUARD
Vitacalic	VZ704	5.6 Upright	1/2" Quick	200°F N/A
Vitacalic	VZ706	5.6 Pendent	1/2" Quick	200°F RECESSED
Vitacalic	VZ802	5.6 Pendent	1/2" Quick	200°F CONCEALED
Total =				685



CONTRACT DATA	
CONTRACTOR:	LEVEL 10 CONSTRUCTION
ADDRESS:	12555 HIGH BLUFF DRIVE '2507'
CITY:	ESCONDIDO, CA 92130
PHONE:	NICK GRAZIANO 659-997-3963
OWNER:	NICK GRAZIANO 659-997-3963
ADDRESS:	
CITY:	
APN:	
ZIP:	

DRAWING REVISIONS	
NO. DATE BY REVISION MADE	
1 1/28/21 ADK PLAN REVIEW COMMENTS	
2	
3	
4	
BRANCHLINES: SCH 10 <input checked="" type="checkbox"/> RSEERMAN: SCH 10 <input type="checkbox"/> SCH 10 <input type="checkbox"/> THREADED: SCH 40 <input checked="" type="checkbox"/> THRU LIGHTWALL (Rsef) <input type="checkbox"/> CPVC <input type="checkbox"/>	

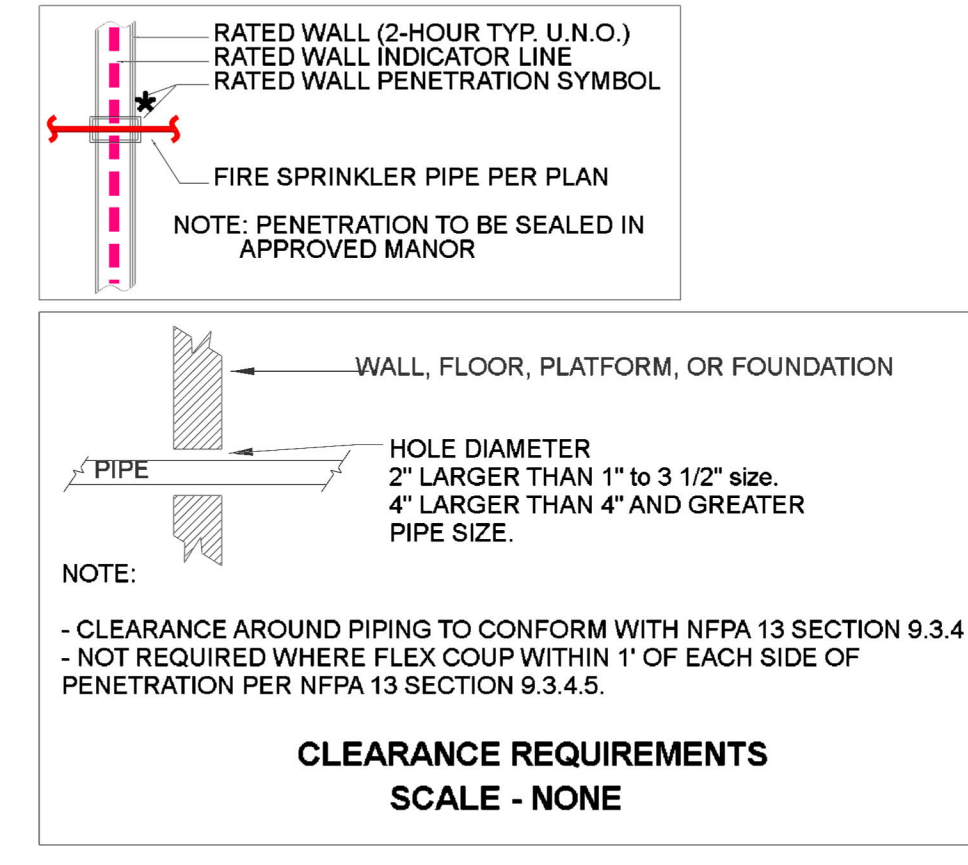
PROJECT:	PALOMAR MEDICAL CENTER MOB 3
LOCATION:	2127 CITRACADO PARKWAY ESCONDIDO, CA 92029
TITLE:	SITE PLAN
JOB NO.:	C-3590
SCALE:	PER PLAN
DRAWN BY:	ADK
DATE:	9-30-21
SHEET:	1 OF 6
	FP-1



ELECTRIC FIRE PUMP LEGEND:

ITEM	QTY
1) 6" Firelock Tee	2
2) 6" Butterfly Va. (Normally Open)	1
3) 6" Check Va	1
4) UG SUPPLY (SUCTION)	1
5) 6" OS&Y CONTROL VALVE	1
6) Jockey Pump Supply	1
7) Jockey Pump Return	1
8) Pipe Stand (TYP)	6
9) CASING RELIEF VALVE	1
10) TO 6" TEST LOOP AND FLOW METER	1
11) FROM 6" TEST LOOP AND FLOW METER	1
12) 6" Venturi Flow Meter (200-600GPM)	1
13) 6" Butterfly (Normally Closed)	2
14) 6" Butterfly (Normally Open)	1
15) Air Release	1
16) 4" x 2 1/2 x 2 1/2 Test Header	1
17) WFP Point of Connection	1
18) 4" x 2 1/2 x 2 1/2 FDC	1
19) Controllers Sensing Lines Connection Point	1
20) 4" Check Va	2
21) 4" Butterfly Va (Normally Closed)	1
22) 4" Butterfly Va (Normally Open)	1
23) 6" x 4" Grd Concentric Reducer	2

- PUMP ROOM NOTES:**
- An approved source of heat shall be provided by others. Per NFPA 20 Section 4.13.3.1: An approved or listed source of heat shall be provided for maintaining the temperature of a pump room or pump house, where required, above 40°F (4°C).
 - Normal AND emergency lighting shall be provided. Per NFPA 20 Section 4.13.4 Normal Lighting: Artificial light shall be provided in a pump room or pump house. Per NFPA 20 Section 4.13.5.1: Pump rooms shall be provided with emergency lighting.
 - Ventilation shall be provided via the two vented utility room doors. Per NFPA 20 Section 4.13.6 Ventilation: Provision shall be made for ventilation of a pump room or pump house.
 - Outside access to the pump room is provided through a fence gate near the pump room double doors at south side of building (See site plan).
 - Pipe for the pumps shall be hung and braced per NFPA 13 requirements (See seismic notes on sheet FP0.4).
 - No ground fault or arc fault interruptions means shall be installed in any fire pump control or power circuit per NFPA 20 Section 9.1.8.
 - An alternate source of power shall be provided where the normal source is not reliable per NFPA 20 Section 9.3.2.
 - Top of risers exceeding 3'-0 in length shall be provided with a 4-way brace per NFPA 13 Section 9.3.5.8.1.



- FIRE PUMP SETTINGS:**
- Pump settings per 2016 NFPA 20 sec. A14.2.6 (4).
- Pump: 500 gpm, 50 psi Pump with churn pressure of 61 psi.
 - Suction Supply: 68 psi from city - maximum static.
 - Jockey pump stop = 56 psi + 68 psi = 124 psi
 - Jockey pump start = 119 - 10 psi = 109 psi.
 - Fire pump start = 109 psi - 5 psi = 104 psi
 - Fire pump maximum churn = 61 psi + 68 psi = 124 psi.

DRIVEN
FIRE CONSULTANTS

910 N. SYCAMORE AVENUE, SUITE 100, ESCONDIDO, CA 92029

CONTRACT DATA

CONTRACTOR: LEVEL 10 CONSTRUCTION
 ADDRESS: 12555 HIGH BLUFF DRIVE '250'
 CITY: ESCONDIDO, CA 92029
 PHONE: NICK GRAZIANO 659-997-3983
 ADDRESS: NICK GRAZIANO
 CITY: ESCONDIDO, CA 92029
 APN: ZIP:

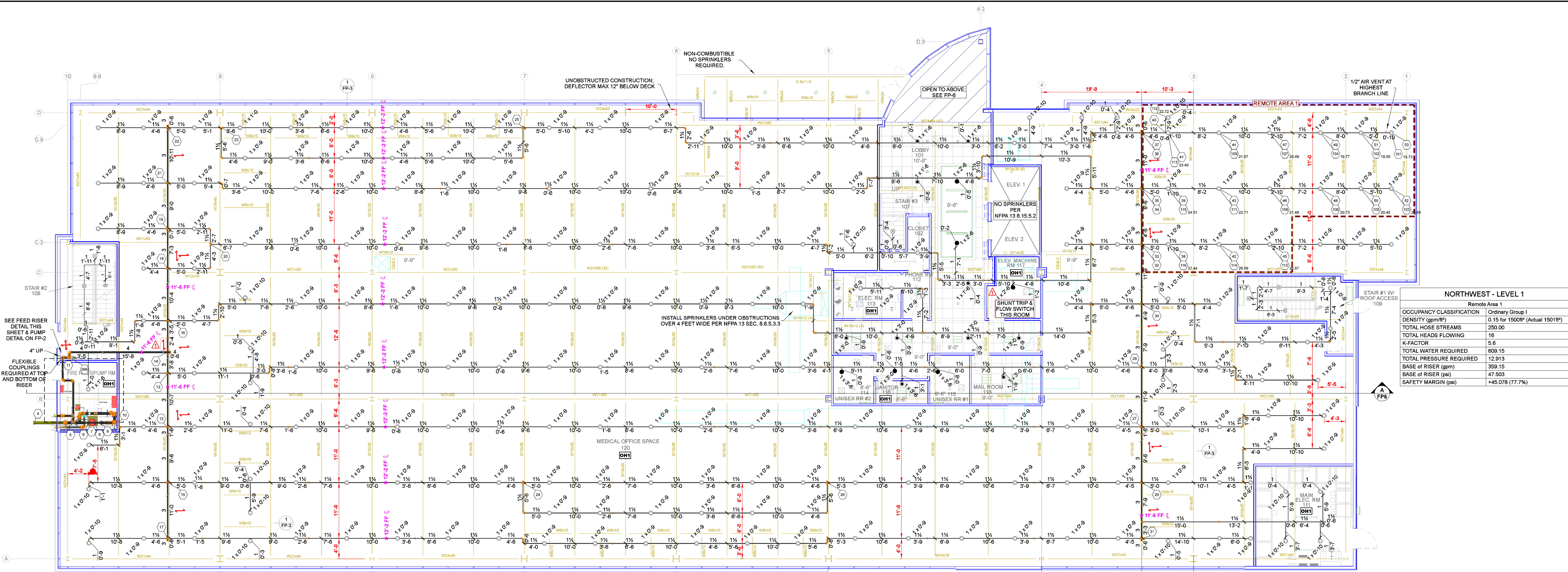
DRAWING REVISIONS

NO.	DATE	BY	REVISIONS MADE
1	1/28/21	ADK	PLAN REVIEW COMMENTS
2			
3			
4			

BRANCH LINES: SCHD 40 RERMANUS: SCHD 10
 THREADED: SCHD 40 THRO LIGHTWALL (Rise) CPVC

PROJECT: PALOMAR MEDICAL CENTER MOB 3
LOCATION: 2127 CITRACADO PARKWAY
 ESCONDIDO, CA 92029
TITLE: PUMP DETAILS & NOTES

JOB NO.: C-3590
SCALE: PER PLAN
DRAWN BY: ADK
DATE: 9-30-21
SHEET: 2 OF 6
FP-2



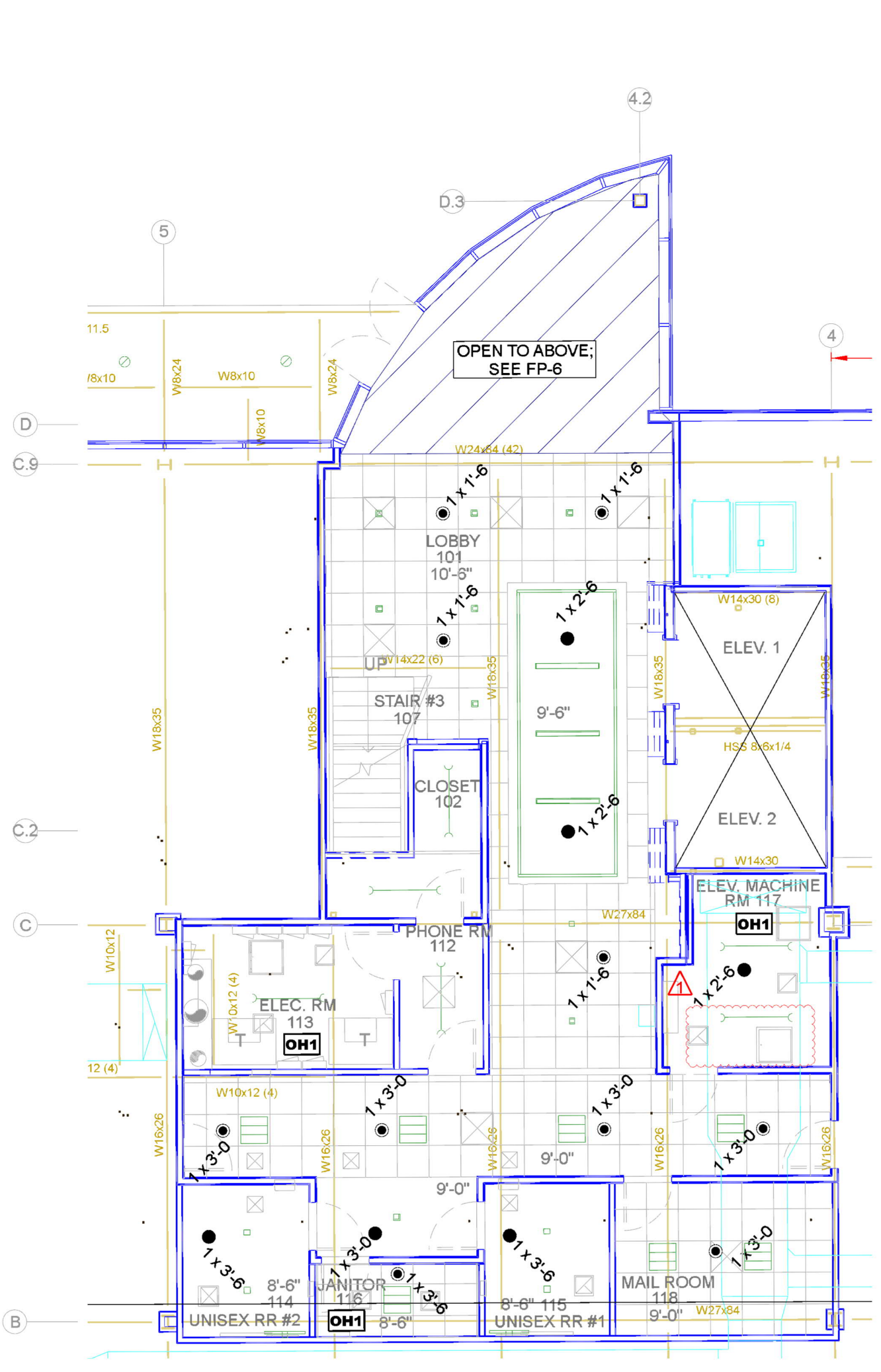
NORTHWEST - LEVEL 1

Remote Area 1

OCCUPANCY CLASSIFICATION	Ordinary Group I
DENSITY (gm/m ²)	0.15 for 1500sf (Actual 1501sf)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	16
K-FACTOR	5.6
TOTAL WATER REQUIRED	609.15
TOTAL PRESSURE REQUIRED	12.913
BASE OF RISER (gpm)	359.15
BASE OF RISER (psi)	47.523
SAFETY MARGIN (psi)	+45.078 (77.7%)

LEVEL 1 FIRE SPRINKLER PIPING PLAN

SCALE: 1/8" = 1'-0"

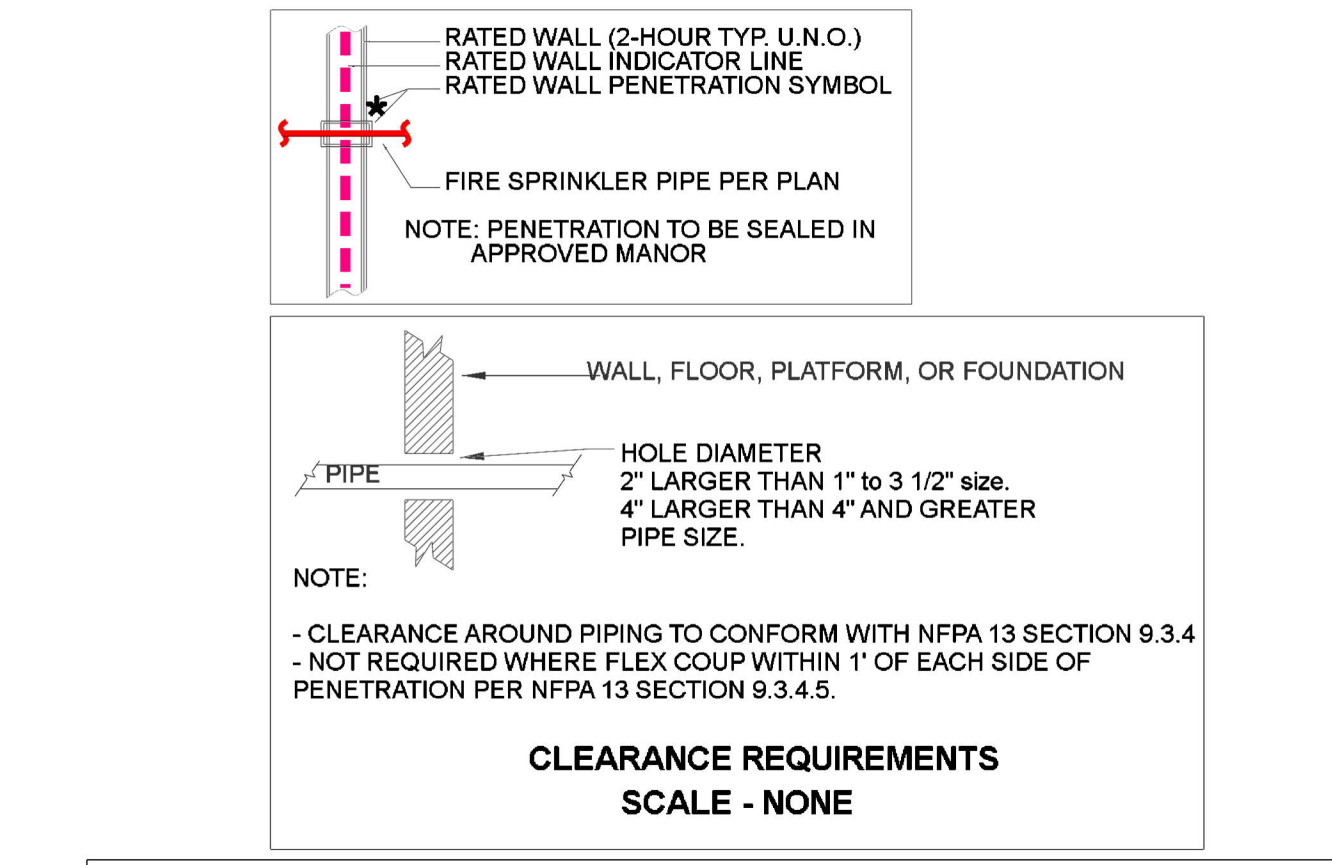


LEVEL 1 REFLECTED CEILING PLAN

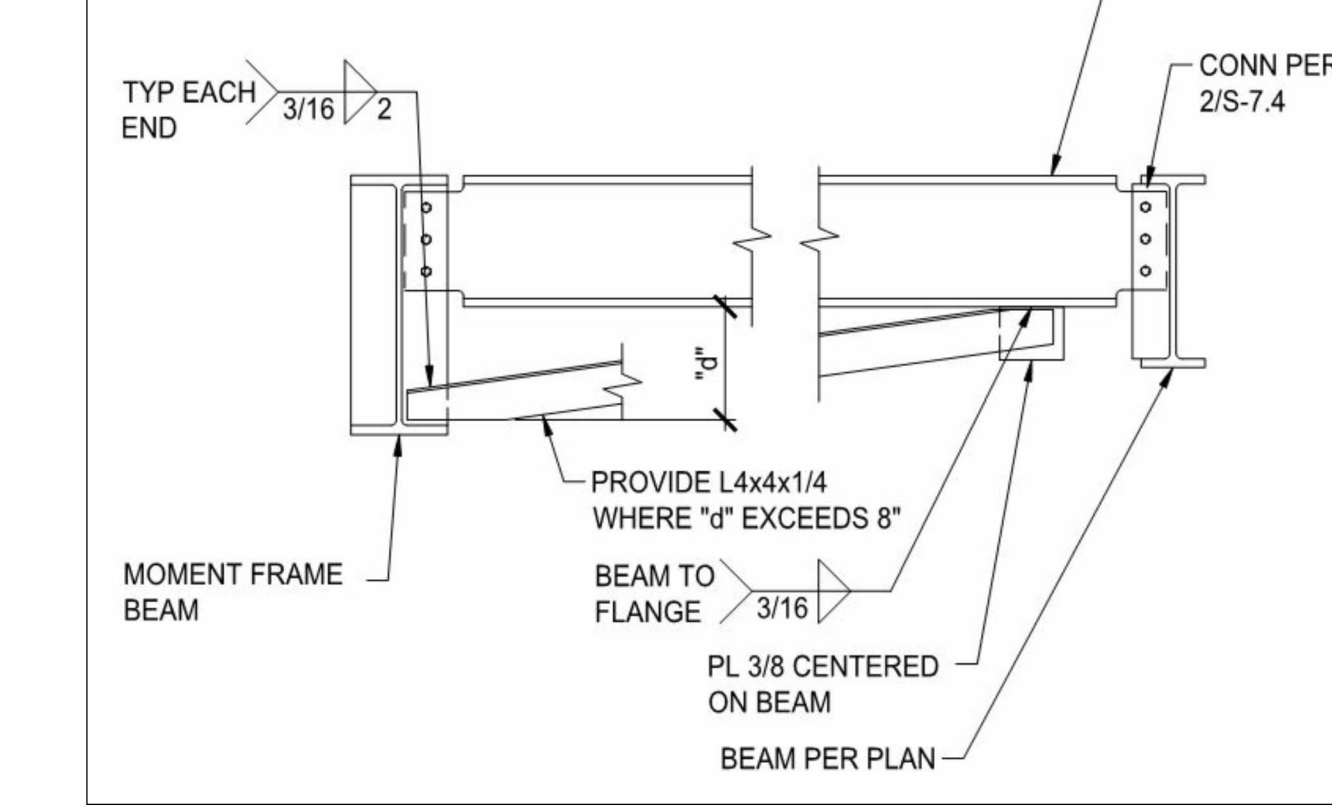
SCALE: 1/8" = 1'-0"

FIRE SPRINKLERS IN OPEN SHELL BUILDING.

- (1) SPRINKLER DEFLECTOR REQUIRED TO BE WITHIN 12" OF THE DECK ON 1ST & 2ND FLOORS.
- (1) SPRINKLER DEFLECTOR REQUIRED TO BE WITHIN 22" OF THE DECK ON 3RD FLOOR.
- (2) BRANCH LINES TO BE CENTER BETWEEN BAYS, @ 12'-2" AFF. SPRINKLERS TO BE CENTER BETWEEN I BEAMS.

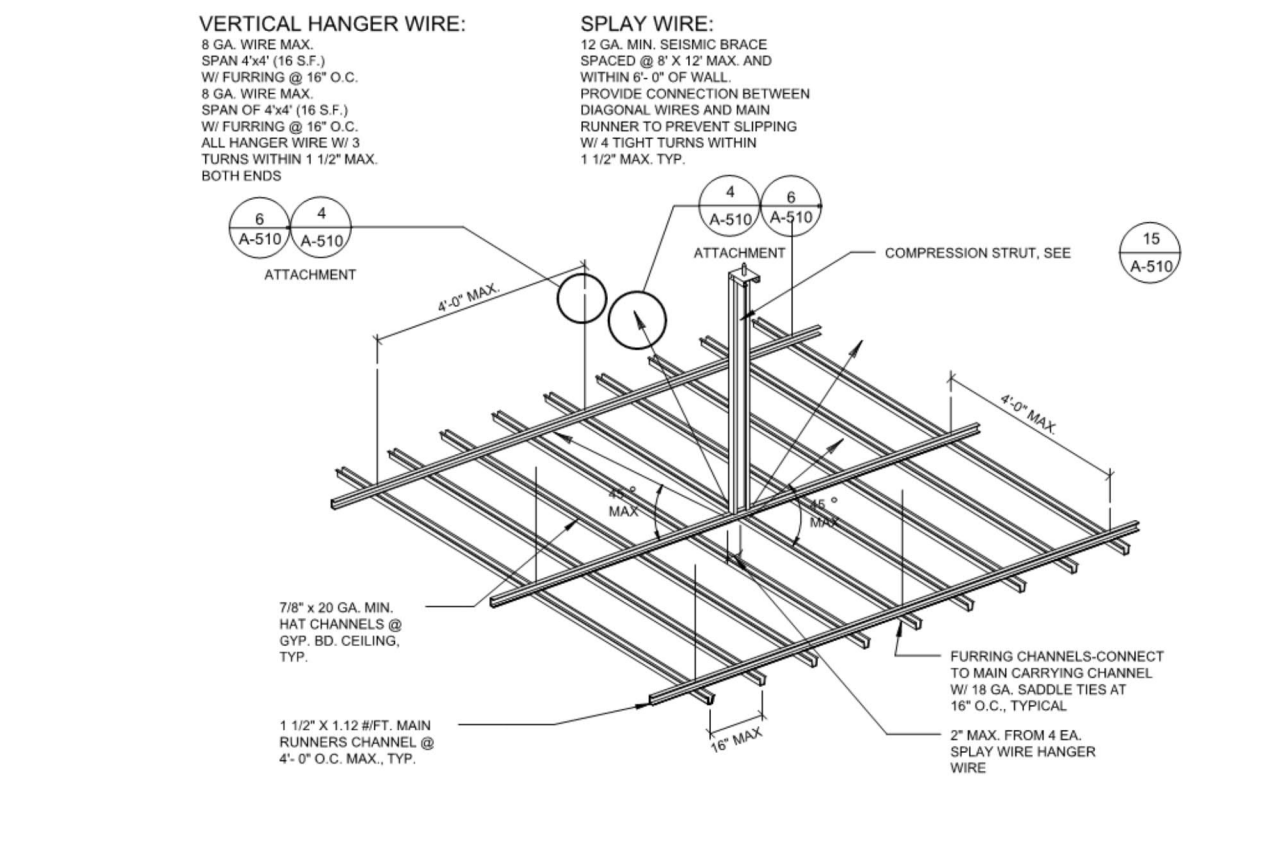


CLEARANCE REQUIREMENTS SCALE - NONE



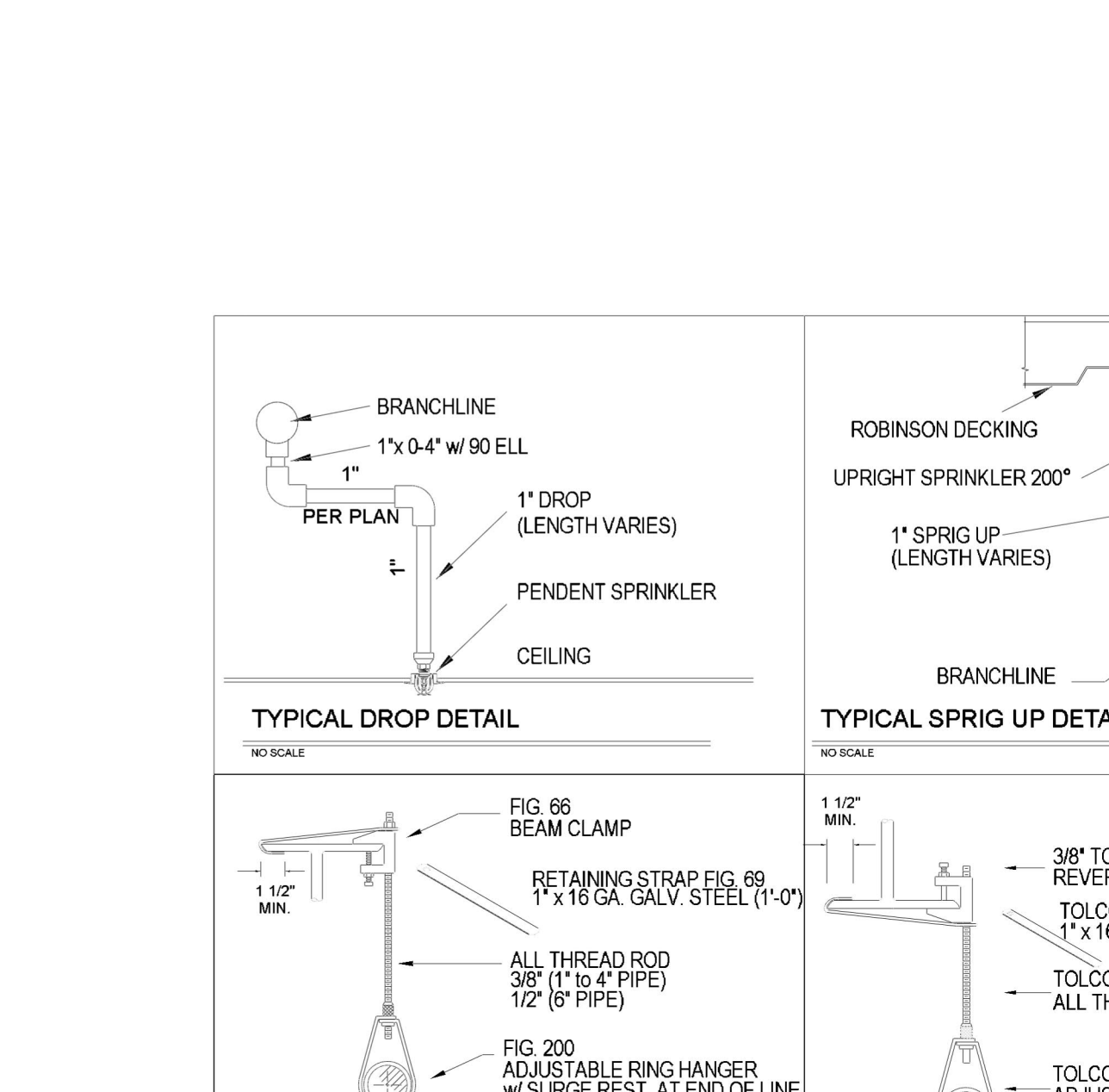
MOMENT FRAME BEAM BOTTOM FLANGE BRACE Detail

SCALE: 1/8" = 1'-0"



GYPSUM BOARD CEILING GRID SYSTEM - ISOMETRIC VIEW

SCALE: 1/8" = 1'-0"



TYPICAL DROP DETAIL

SCALE: 1/8" = 1'-0"

HYDRAULIC - SYSTEM

This Building is Protected By A Hydraulically Designed Automatic Sprinkler System

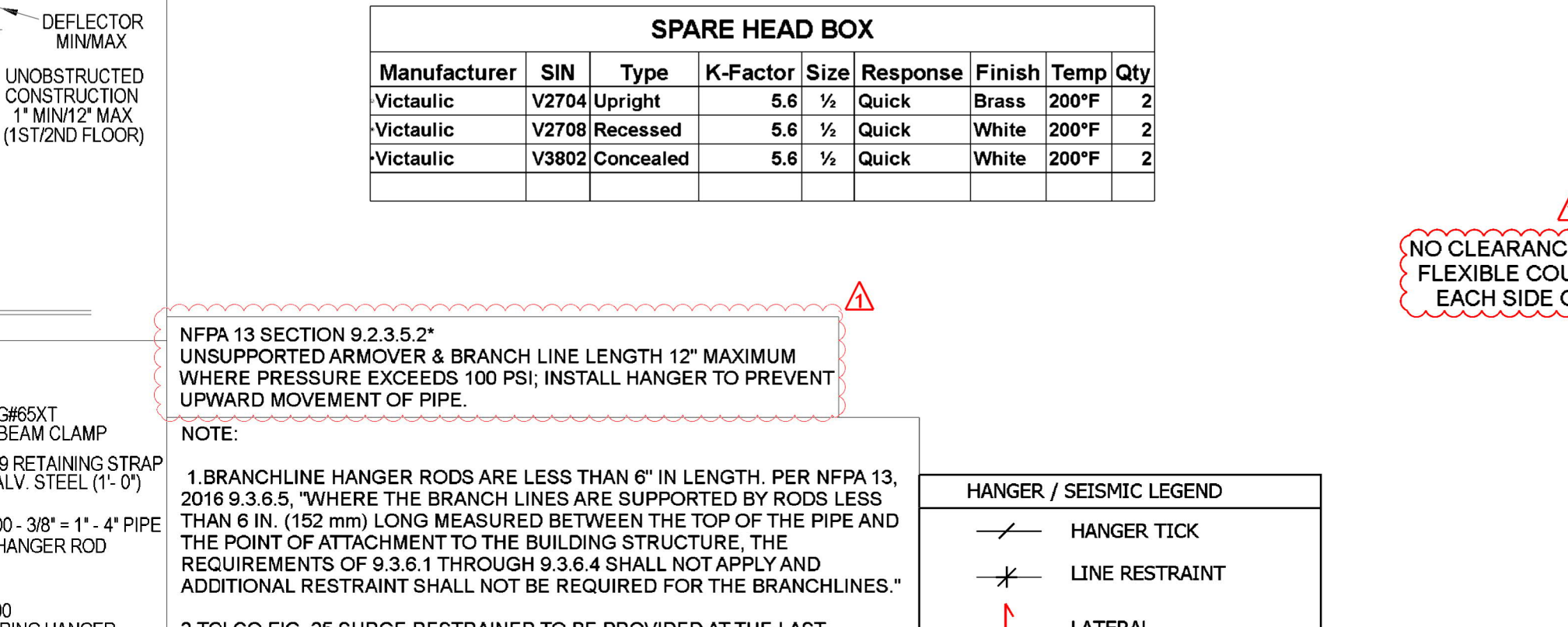
Date Installed:	Palomar MOB 3
Location:	North West - Level 1
Area / System:	Ordinary Hazard Grp 1
Sprinklers to Discharge:	16
Basis of Design:	0.15/4500sqft
Density:	1501 sqft
Area of Discharge:	NODE 5
System Demand at Base of Riser:	359.23 GPM
GPM Discharge:	48.619 psi
Residual Pressure:	250 GPM
Hose Allowance:	N/A
Occupancy Classification:	N/A
Commodity Classification:	N/A
Maximum Storage Height:	N/A
Print #:	FP-3
Dated:	9/30/2021

SPRINKLER SYSTEM - GENERAL INFORMATION FOR

High-piled storage:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date:	9/30/2021
Rack storage:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Flow test data:	
Commodity class:		Static:	61 psi
Max. storage ht.:	ft	Resid:	20 psi
Aisle width (min.):	ft	Flow:	2500 GPM
Encapsulation:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Pilot:	psi
Solid Shelving:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date:	psi
Flammable/Combustible liquids:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Location:	
Other storage:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Location of aux/low point drains:	
Hazardous materials:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Original main drain test results:	
Idle pallets:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Static:	psi
Antifreeze systems:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Residual:	psi
Dry or aux systems:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

SPARE HEAD BOX

Manufacturer	SIN	Type	K-Factor	Size	Response	Finish	Temp	Qty
Victaulic	V2704	Upright	5.6	1/2"	Quick	Brass	200°F	2
Victaulic	V2700	Recessed	5.6	1/2"	Quick	White	200°F	2
Victaulic	V3802	Concealed	5.6	1/2"	Quick	White	200°F	2

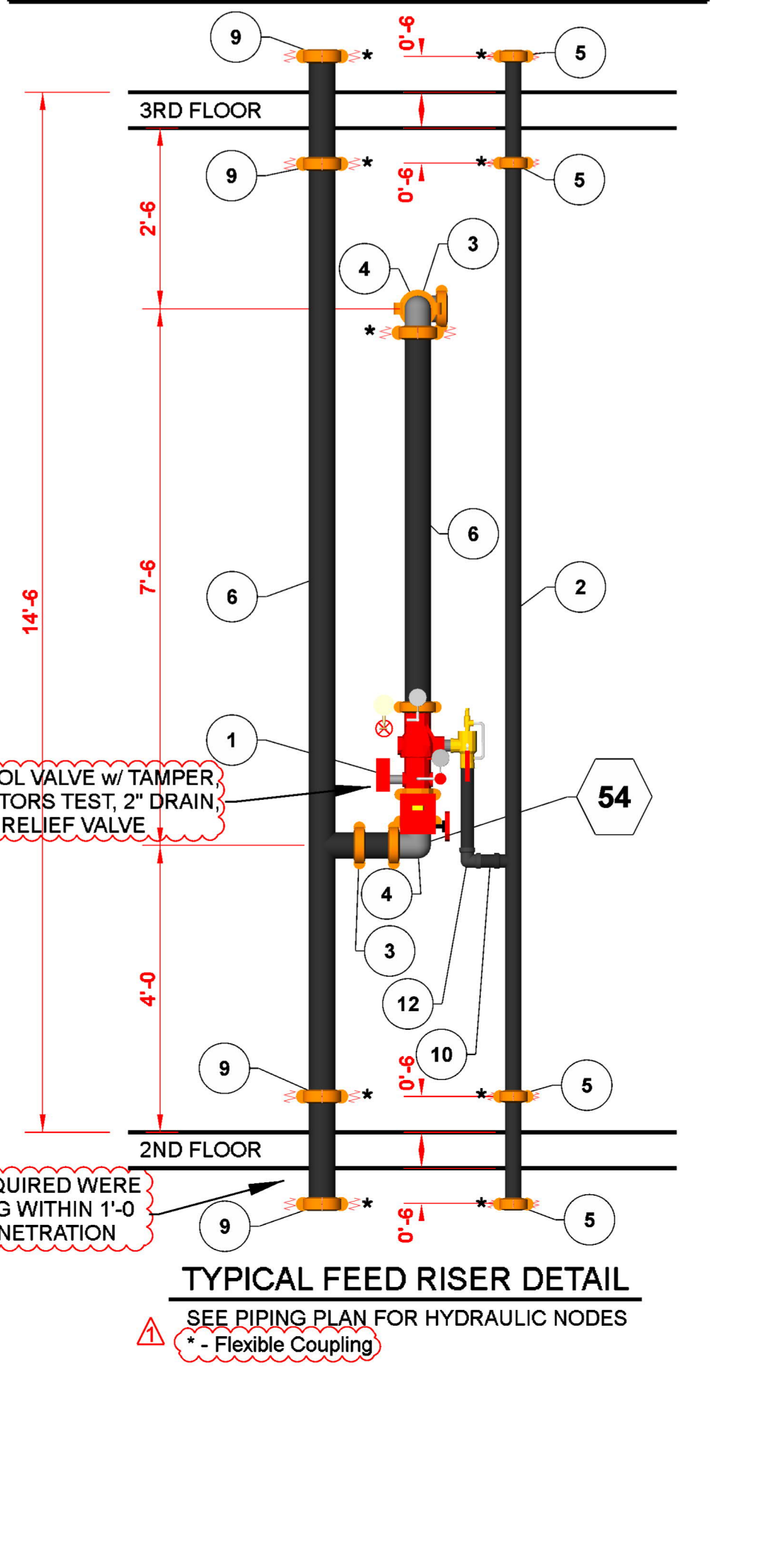


HANGER / SEISMIC LEGEND

SCALE: 1/8" = 1'-0"

FEED RISER LEGEND

Key Note	Size	Description
1	4"	Globe UMC Assembly w/ Butterfly Valve
2	2 1/2"	Drain Pipe, Schedule 40
3	4"	FireLock(TM) Rigid Coupling
4	4"	FireLock(TM) 90° Elbow
5	2 1/2"	Victaulic QuickVic Flexible Coupling 177N Org
6	4"	Pipe, Schedule 40
9	4"	Victaulic QuickVic Flexible Coupling 177N Org
10	2"	Pipe, Schedule 40
12	2"	Threaded 90° Elbow, CI



TYPICAL FEED RISER DETAIL

SCALE: 1/8" = 1'-0"

SPRINKLER LEGEND - FP3

Symbol	Manufacturer	SIN	Model	Type	K-Factor	Size	Response	Finish	Temp	Note
○	Victaulic	V2704	V2704	Upright	5.6	1/2"	Quick	Brass	200°F	W/ HEADGUARD
○	Victaulic	V2700	V2700	Recessed	5.6	1/2"	Quick	White	200°F	RECESSED
○	Victaulic	V3802	V3802	Concealed	5.6	1/2"	Quick	White	200°F	CONCEALED

CONTRACT DATA

CONTRACTOR: LEVEL 10 CONSTRUCTION
 ADDRESS: 12555 HIGH BLUFF DRIVE 7507
 CITY: ESCONDIDO, CA 92126
 PHONE: NICK GRAZIANO 659-997-3963
 OWNER: NICK GRAZIANO
 ADDRESS:
 CITY:

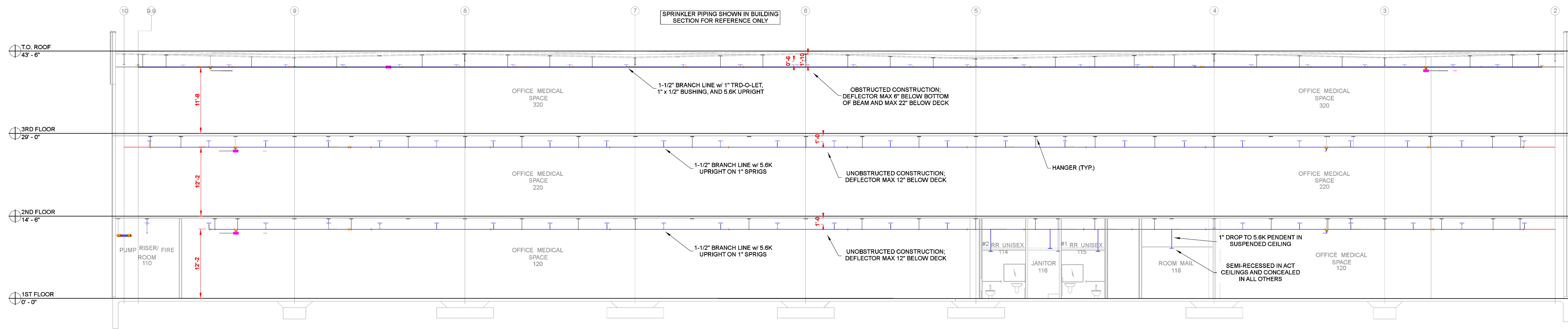
DRAWING REVISIONS

PROJECT: PALOMAR MEDICAL CENTER MOB 3
 LOCATION: 2127 CITRACADO PARKWAY
 ESCONDIDO, CA 92029
 TITLE: LEVEL 1 PIPING PLAN

JOB NO.: C-3590
SCALE: PER PLAN
DRAWN BY: ADK
DATE: 9-30-21
SHEET: 3 OF 6
FP-3

DRIVEN FIRE CONSULTANTS

100 N. SPANNE AVENUE, SUITE 100, #9 91318 ESCONDIDO, CA



A BUILDING SECTION
SCALE: 1/8" = 1'-0"

Palomar MOB 3
2127 Citracado Parkway, Escondido, CA 92029, USA
Latitude, Longitude: 33.119493, -117.122301

OSHPD

Date	9/29/2021, 12:31:46 PM
Design Code Reference Document	ASCE7-16
Risk Category	II
Site Class	C - Very Dense Soil and Soft Rock

Type	Value	Description
S_s	0.888	$MCE_{0.2}$ ground motion (for 0.2 second period)
S_1	0.326	$MCE_{1.0}$ ground motion (for 1.0 second period)
S_{s1}	1.000	Site-modified spectral acceleration value
S_{s1}	0.49	Site-modified spectral acceleration value
S_{s1}	0.711	Numeric seismic design value at 0.2 second SA
S_{s1}	0.326	Numeric seismic design value at 1.0 second SA

Type	Value	Description
SDC	D	Seismic design category
F_a	1.2	Site amplification factor at 0.2 second
F_a	1.5	Site amplification factor at 1.0 second
PGA	0.383	$MCE_{0.2}$ peak ground acceleration
PGA	0.46	Site modified peak ground acceleration
T_L	8	Long-period transition period in seconds
S_{aRT}	0.888	Probabilistic risk-targeted ground motion (0.2 second)
S_{aUH}	0.993	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration
S_{aD}	1.5	Factored deterministic acceleration value (0.2 second)
S_{aRT}	0.326	Probabilistic risk-targeted ground motion (1.0 second)
S_{aUH}	0.353	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration
S_{aD}	0.6	Factored deterministic acceleration value (1.0 second)
PGA _d	0.5	Factored deterministic acceleration value (Peak Ground Acceleration)
C_{s1}	0.923	Mapped value of the risk coefficient at short periods
C_{s1}	0.924	Mapped value of the risk coefficient at a period of 1 s

TOLBrace™ Seismic Bracing Calculations			
Project Address: PALOMAR MOB 3 2127 CITRACADO PARKWAY ESCONDIDO, CA 92029 Job # C-3590			
Brace Information		TOLCO™ Brace Components	
Maximum Brace Length	7' 0" (2.134 m)	TOLCO™ Component	Listed Load
Diameter of Brace	1"	Fig. 1001 Clamp	2015 lbs (914 kg)
Type of Brace	Sch. 40	Fig. 980 Universal Swivel	2015 lbs (914 kg)
Angle of Brace	30° Min.	Fig. 828 Across Beam	2015 lbs (914 kg)
Least Rad. of Gyration	0.42" (11 mm)		
L/R Value	200		
Max Horizontal Load	926 lbs (420 kg)		
Fastener Information			
Orientation to Connecting Surface NFPA Type A			
Fastener			
Type	Fig. 828 Across Beam		
Diameter	N/A		
Length	N/A		
Maximum Load	1007 lbs (457 kg)		
Prying Factor	N/A		
Sprinkler System Load Calculation (F _{pw} = CpWp)			
Cp = 0.4752			
Diameter	Type	Length	Total Length
3" (80 mm)	Sch. 10	20 ft (6.1 m)	7.94 kft (11.82 kg/m)
1.5" (40 mm)	Sch. 10	300 ft (91.4 m)	3.04 kft (4.52 kg/m)
		Subtotal Weight	1071 lbs (486 kg)
		Wp (incl. 15%)	1232 lbs (559 kg)
		Total (F _{pw})	585 lbs (265 kg)
Main Size	Type/Sch.	Spacing (ft)	Maximum F _{pw} per 9.3.5.5.2 (if applicable)
3"	Sch. 10	20'	966 lb (438 kg)

TOLBrace™ Seismic Bracing Calculations			
Project Address: PALOMAR MOB 3 2127 CITRACADO PARKWAY ESCONDIDO, CA 92029 Job # C-3590			
Brace Information		TOLCO™ Brace Components	
Maximum Brace Length	7' 0" (2.134 m)	TOLCO™ Component	Listed Load
Diameter of Brace	1"	Fig. 4L Clamp	2015 lbs (914 kg)
Type of Brace	Sch. 40	Fig. 980 Universal Swivel	2015 lbs (914 kg)
Angle of Brace	45° Min.	Fig. 828 Along Beam	2015 lbs (914 kg)
Least Rad. of Gyration	0.42" (11 mm)		
L/R Value	200		
Max Horizontal Load	1310 lbs (594 kg)		
Fastener Information			
Orientation to Connecting Surface NFPA Type B			
Fastener			
Type	Fig. 828 Along Beam		
Diameter	N/A		
Length	N/A		
Maximum Load	1425 lbs (646 kg)		
Prying Factor	N/A		
Sprinkler System Load Calculation (F _{pw} = CpWp)			
Cp = 0.4752			
Diameter	Type	Length	Total Length
3" (80 mm)	Sch. 10	80 ft (24.4 m)	7.94 kft (11.82 kg/m)
		Subtotal Weight	635 lbs (288 kg)
		Wp (incl. 15%)	730 lbs (331 kg)
		Total (F _{pw})	347 lbs (157 kg)
Main Size	Type/Sch.	Spacing (ft)	Maximum F _{pw} per 9.3.5.5.2 (if applicable)
3"	Sch. 10	80'	N/A

SEISMIC BRACING INFORMATION



CONTRACT DATA
CONTRACTOR: LEVEL 10 CONSTRUCTION
ADDRESS: 12555 HIGH BLUFF DRIVE "250"
CITY: ESCONDIDO, CA 92130
PHONE: NICK GRAZIANO 659-997-3963
OWNER:
ADDRESS:
CITY:
APN:
ZIP:

DRAWING REVISIONS

NO.	DATE	BY	REVISIONS MADE
1	1/28/21	ADK	PLAN REVIEW COMMENTS
2			
3			
4			

BRANCH LINES: SCH. 10 RISERMAN: SCH. 10
THREADED: SCH. 40
THRU LIGHTWALL (Rebar) CPVC

PROJECT: PALOMAR MEDICAL CENTER MOB 3
LOCATION: 2127 CITRACADO PARKWAY
ESCONDIDO, CA 92029
TITLE: BUILDING SECTION & SEISMIC

JOB NO: C-3590
SCALE: PER PLAN
DRAWN BY: ADK
DATE: 9-30-21
SHEET: 6 OF 6
FP-6