ORANGE COUNTY FIRE AUTHORITY

NFPA 13 FIRE SPRINKLER SYSTEM

<INSERT LOCATION MAP THAT INCLUDES MAJOR CROSS STREETS PROVIDING SITE ACCESS>

VICINITY MAP

OCFA STAMP

PROJECT INFORMATION REQUIREMENTS

PROJECT LOCATION:

- ○ NEW INSTALLATION NUMBER OF HEADS:
- ○ TEANANT IMPROVEMENT NUMBER OF HEADS:
- ○ HYDRAULIC CALCULATIONS
- ○ PIPE SCHEDULE (TI TO EXISTING SYSTEM ONLY)
- ○ M.I.C. FOUND
- ○ TRI WATER SYSTEM

DETAILED SCOPE OF WORK

NOTE: OCFA WILL ONLY REVIEW WORK OUTLINED IN SCOPE OF WORK

FIRE FLOW REQUIREMENT PER OCFA GUIDELINE B-09 ATTACHMENT 23

FLOW (IN GPM @ 20 PSI): DURATION:

FLOW TEST INFORMATION

WATER PURVEYOR:
LOCATION: DATE:
ELEVATION: STATIC PRESSURE (PSI): FLOW (GPM):

FIRE SPRINKLER DESIGN DATA

POINT OF CONNECTION:
HAZARD CLASS: ○ LIGHT HAZARD ○ ORDINARY HAZARD I
○ ORDINARY II ○ HIGH HAZARD
TYPE: ○ WET ○ DRY ○ PREACTION ○ DELUGE
DESIGN DENSITY:
DESIGN AREA:
FLOW AT BASE OF RISER:
PRESSURE AT BASE OF RISER:
SAFETY MARGIN:
PIPE MATERIAL:
CEILING HEIGHT:
TRUSS TYPE:
SEISMIC ZONE:
DEFLECTION VALUE:
DRY BARREL LENGTH:
MINIMUM FREEZER/COOLER TEMPERATURE:
○ FLEX HEADS

STORAGE INFORMATION

SPRINKLER TYPE: ○ STANDARD ○ ESFR ○ IN-RACK
COMMODITY CLASS: ○ CLASS I ○ CLASS II ○ CLASS III ○ CLASS IV ○ HAZARD
STORAGE HEIGHT:
STORAGE AREA:
CEILING HEIGHT:
AISLE WIDTH:
○ NFPA 13 CHAPTER 20 PROVISIONS APPLY

OCCUPANCY TYPE (CHECK ALL THAT APPLY)

* INDICATES SFM REGULATED OCCUPANCY. OCFA PLAN SUBMITTAL REQUIRED
\# GROUP S MOTOR VEHICLE REPAIR AND AIRCRAFT REPAIR REQUIRE OCFA PLAN SUBMITTAL

- ○ GROUP A1* ○ GROUP A2* ○ GROUP A3* ○ GROUP A4* ○ GROUP A5*
- ○ GROUP B ○ GROUP E* ○ GROUP F1 ○ GROUP F2 ○ GROUP H1*
- ○ GROUP H2* ○ GROUP H3* ○ GROUP H4* ○ GROUP H5* ○ GROUP I1*
- ○ GROUP I2* ○ GROUP I3* ○ GROUP I4* ○ GROUP M ○ GROUP R1*
- ○ GROUP R2* ○ GROUP R2.1 ○ GROUP R2.2 ○ GROUP R3 ○ GROUP R3.1
- ○ GROUP R4* ○ GROUP S1# ○ GROUP S2# ○ GROUP U

TYPE OF CONSTRUCTION

- ○ TYPE IA ○ TYPE IB
- ○ TYPE IIA ○ TYPE IIB
- ○ TYPE IIIA ○ TYPE IIIB
- ○ TYPE IV
- ○ TYPE VA ○ TYPE VB

OCFA STANDARD NFPA 13 SPRINKLER

1. SPRINKLER PLANS SHALL BE APPROVED PRIOR TO THE INSTALLATION OF ANY PIPE. A SET OF APPROVED PLANS, INCLUDING HYDRAULIC CALCULATIONS FOR NEW SYSTEMS, SHALL BE RETAINED AT THE JOB SITE AT ALL TIMES.
2. THIS AUTOMATIC FIRE PROTECTION SYSTEM SHALL BE DESIGNED, FABRICATED, AND INSTALLED IN ACCORDANCE WITH 2016 NFPA 13 AND LOCAL AMENDMENTS ENFORCED BY THE OCFA.
3. ALL VALVES SHALL HAVE A PERMANENTLY AFFIXED SIGN IDENTIFYING THEIR FUNCTION AND BUILDING SERVED.
4. ALL SYSTEM RISERS SHALL BE EQUIPPED WITH A HYDRAULIC DESIGN INFORMATION SIGN AS DESCRIBED IN NFPA 13, SECTION 25.5.2 (AS AMENDED).
5. ALL UNDERGROUND MAINS AND LEAD IN CONNECTIONS SHALL BE FLUSHED IN ACCORDANCE WITH NFPA 13 AND/OR 24 PRIOR TO CONNECTION TO THE OVERHEAD SYSTEM; THE FLUSH SHALL BE WITNESSED BY AN OCFA FIRE INSPECTOR.
6. CALL OCFA INSPECTION SCHEDULING AT (714) 573-6150 TO SCHEDULE ALL INSPECTIONS AT LEAST 48 HOURS IN ADVANCE. INSPECTIONS CANCELED AFTER 1 P.M. ON THE DAY BEFORE THE SCHEDULED DATE WILL BE SUBJECT TO A REINSPECTION FEE.
7. THE INSTALLER SHALL PERFORM ALL REQUIRED ACCEPTANCE TESTS IN THE PRESENCE OF THE FIRE INSPECTOR.
8. ALL NEW SYSTEMS AND ADDITIONS OR MODIFICATIONS TO EXISTING PIPING AFFECTING MORE THAN 20 SPRINKLERS SHALL BE HYDROSTATICALLY TESTED FOR TWO HOURS AT 200 PSI OR AT 50 PSI ABOVE THE SYSTEM OPERATING PRESSURE, WHICHEVER IS GREATER. HYDRO TESTING ABOVE OPERATING PRESSURE IS NOT REQUIRED FOR RELOCATED DROPS.
9. ALL FDCS, WALL PIVS, AND EXTERIOR/EXPOSED SPRINKLER RISER VALVES SHALL BE PAINTED OSHA SAFETY RED. OTHER FIRE SPRINKLER OR SUPPLY PIPE EXPOSED TO THE SKY OR SUSCEPTIBLE TO WET CONDITIONS SHALL BE PAINTED (ANY COLOR) OR OTHERWISE COATED TO INHIBIT CORROSION. STAINLESS STEEL ASSEMBLIES AND PIPING MAY BE LEFT UNPAINTED PROVIDED THAT ANY HOSE CONNECTIONS, VALVES, OR OTHER COMPONENTS OPERATED BY THE FIRE DEPARTMENT ARE PAINTED RED.
10. ALL SPRINKLER PIPING SHALL REMAIN UNCOVERED UNTIL INSPECTED BY OCFA.
11. AT ROUGH INSPECTION, PENDENT AND SIDEWALL SPRINKLER HEADS SHALL NOT BE INSTALLED IN PORTIONS OF SYSTEMS USING CPVC PIPE; ONLY PLUGS SHALL BE USED.
12. AT FINAL INSPECTION, CEILING TILES SHALL BE INSTALLED AT EACH SPRINKLER. HARD-LID AND ALL OTHER TYPES OF CEILINGS SHALL HAVE ALL PATCHES, REPAIRS, AND FINAL FINISHES COMPLETED. CONCEALED SPRINKLER COVER PLATES SHALL NOT BE INSTALLED REGARDLESS OF CEILING TYPE, BUT SHALL BE AVAILABLE ON-SITE FOR INSPECTION.

APPLICABLE CODES

- ○ 2019 CALIFORNIA FIRE CODE
- ○ 2019 CALIFORNIA BUILDING CODE
- ○ 2019 CALIFORNIA RESIDENTIAL CODE
- ○ 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
- ○ 2019 CALIFORNIA MECHANICAL CODE
- ○ 2019 CALIFORNIA ELECTRICAL CODE
- ○ 2019 CALIFORNIA PLUMBING CODE
- ○ 2019 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS
- ○ APPLICABLE NFPA STANDARDS:
- ○ LOCALLY ADOPTED ORDINANCES
- ○ OCFA GUIDELINE:
- ○ CONDITIONS OF APPROVAL

DEFERRED SUBMITTALS (CHECK ALL THAT APPLY)

THIS PROJECT HAS BEEN PERMITTED WITHOUT REVIEW AND/OR APPROVAL OF THE FOLLOWING DEFERRED SUBMITTALS. PLANS APPROVED BY OCFA SHALL BE OBTAINED FOR EACH DEFERRED ITEM LISTED BELOW PRIOR TO COMMENCING ANY WORK WITHIN THE SCOPE OF SUCH DEFERRAL. DEFERRALS MUST BE REVIEWED AND ACCEPTED BY THE ARCHITECT OR ENGINEER OF RECORD PRIOR TO SUBMITTING FOR REVIEW WITH OCFA. PORTIONS OF THE PROJECT THAT ARE DEFERRED SHALL BE SUBJECT TO THE CODES, STANDARDS, AND OTHER APPLICABLE REQUIREMENTS IN FORCE ON THE DATE THAT THE DEFERRED PLAN IS SUBMITTED TO OCFA.

- ○ STANDPIPE SYSTEM
- ○ FIRE PUMP
- ○ HOOD AND DUCT EXTINGUISHING SYSTEM
- ○ ALARM SYSTEM

RELATED PLANS

- ○ FIRE MASTER PLAN SR:
- ○ ARCHITECTURAL PLAN SR:
- ○ HIGH PILED STORAGE SR:
- ○ UNDERGROUND PLAN SR:

REVISION

- ○ ORIGINAL PLAN SR:

COPY OF ORIGINAL APPROVED PLAN REQUIRED TO BE SUBMITTED WITH ALL REVISED PLANS.

REVISION SCOPE OF WORK

PROJECT DIRECTORY

ENGINEER
BUSINESS NAME:
CONTACT NAME:
ADDRESS:
CITY: STATE: ZIP:
PHONE:
EMAIL:

PROPERTY OWNER
BUSINESS NAME:
CONTACT NAME:
ADDRESS:
CITY: STATE: ZIP:
PHONE:
EMAIL:

NO.	DATE	REVISIONS
7		
6		
5		
4		
3		
2		
1		

DESIGNED:
DRAWN:
CHECKED:
DATE:
SCALE:

OCFA REVIEW AND INSPECTIONS (OCFA USE ONLY)

- ☐ NO OCFA REVIEW REQUIRED
- ☐ PLAN REVIEW ONLY
- ☐ PLAN REVIEW AND INSPECTION

PLANS PREPARED BY:
ENGINEER LICENSE NO. EXP. DATE

ORANGE COUNTY FIRE AUTHORITY
COMMUNITY RISK REDUCTION - PLANNING AND DEVELOPMENT SECTION

SERVICE REQUEST NUMBER

SHEET 1