

NEWPORT BEACH FIRE DEPARTMENT



NFPA 13/13R/13D FIRE SPRINKLER SYSTEM

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

VICINITY MAP

NBFD STAMP

7	DESIGNED:
6	DRAWN:
5	CHECKED:
4	DATE:
3	SCALE:
2	NO.
1	DATE
	REVISIONS

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

DETAILED SCOPE OF WORK

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

FIRE FLOW REQUIREMENT PER NBFD GUIDELINE F-05

FLOW (IN GPM @ 20 PSI): DURATION:

FLOW TEST INFORMATION

WATER PURVEYOR:

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

FIRE SPRINKLER DESIGN DATA

POINT OF CONNECTION:

HAZARD CLASS: LIGHT HAZARD ORDINARY HAZARD I

ORDINARY II HIGH HAZARD
 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. NBFD PLAN SUBMITTAL REQUIRED

GROUP S MOTOR VEHICLE REPAIR AND AIRCRAFT REPAIR REQUIRE NBFD 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

HOSE STREAM ALLOWANCES AND WATER SUPPLY DURATION REQUIREMENTS

	INSIDE HOSE	COMBINED	DURATION (min)
LIGHT HAZARD	0 50 100	100	30
ORDINARY	0 50 100	250	60-90
EXTRA	0 50 100	500	90-120

NBFD STANDARD NFPA 13 SPRINKLER

- 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.
- THE AUTOMATIC FIRE PROTECTION SYSTEM SHALL BE DESIGNED, FABRICATED, AND INSTALLED IN ACCORDANCE WITH 2022 NFPA 13 AND LOCAL AMENDMENTS ENFORCED BY THE NBFD.
- ALL VALVES SHALL HAVE A PERMANENTLY AFFIXED SIGN IDENTIFYING THEIR FUNCTION AND BUILDING SERVED.
- ALL SYSTEM RISERS SHALL BE EQUIPPED WITH A HYDRAULIC DESIGN INFORMATION SIGN AS DESCRIBED IN NFPA 13, SECTION 29.5.2 (AS AMENDED).
- ALL UNDERGROUND MAINS AND LEAD IN CONNECTIONS SHALL BE FLUSHED IN ACCORDANCE WITH NFPA13 AND/OR 24 PRIOR TO CONNECTION TO THE OVERHEAD SYSTEM. THE FLUSH SHALL BE WITNESSED BY AN NBFD INSPECTOR.
- THE INSTALLATION SHALL PERFORM ALL REQUIRED ACCEPTANCE TESTS IN THE PRESENCE OF THE FIRE INSPECTOR.
- ALL NEW SYSTEMS AND ADDITIONS OR MODIFICATIONS TO EXISTING PIPING AFFECTING MORE THAN 20 SPRINKLERS SHALL BE HYDROSTATICALLY TESTED FOR 2 HOURS AT 200 PSI OR AT 50PSI ABOVE THE SYSTEM OPERATING PRESSURE, WHICHEVER IS GREATER.
- ALL FDC'S, WALL PIV'S, 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 CONDITIOJS SHALL BE PAINTED (ANY COLOR) OR OTHERWISE BE COATED TO PROHIBIT CORROSION. STAINLESS STEEL ASSEMBLIES AND PIPING MY BE LEFT UNPAINTED PROVIDED THAT ANY HOSE CONNECTIONS, VALVES, OR OTHER COMPONENTS OPERATED BY THE FIRE DEPARTMENT ARE PAINTED RED.
- ALL SPRINKLER PIPING SHALL BE LEFT UNCOVERED UNTIL INSPECTED BY NBFD.
- AT ROUGH INSPECTION, PENDENT AND SIDEWALL SPRINKLER HEADS SHALL NOT INSTALLED IN PORTIONS OF THE SYSTEMS USING CPVC PIPE, ONLY PLUGS SHALL BE USED.
- 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.
- ALL FIRE SPRINKLER TRIMS AND COVER PLATES WITHIN THE SCOPE OF WORK SHALL NOT BE INSTALLED UNTIL AFTER FINAL INSPECTION IS COMPLETED AND APPROVED BY THE FIRE INSPECTOR.

APPLICABLE CODES

- 2022 CALIFORNIA FIRE CODE
- 2022 CALIFORNIA BUILDING CODE
- 2022 CALIFORNIA RESIDENTIAL CODE
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
- 2022 CALIFORNIA MECHANICAL CODE
- 2022 CALIFORNIA ELECTRICAL CODE
- 2022 CALIFORNIA PLUMBING CODE
- 2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS
- APPLICABLE NFPA STANDARDS:
- LOCALLY ADOPTED ORDINANCES
- NBFD 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 NBFD 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 NBFD 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 NBFD.

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

RELATED PLANS

- FIRE MASTER PLAN PC :
- ARCHITECTURAL PLAN PC :
- HIGH PILED STORAGE PC :
- UNDERGROUND PLAN PC :

REVISION

- ORIGINAL PLAN PC :
- 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: _____

DESIGNED:	
DRAWN:	
CHECKED:	
DATE:	
SCALE:	
NO.	
DATE	
REVISIONS	
REVIEW AND INSPECTIONS (OFFICE USE ONLY)	
<input type="checkbox"/> NO REVIEW REQUIRED PLAN	
<input type="checkbox"/> REVIEW ONLY	
<input type="checkbox"/> PLAN REVIEW AND INSPECTION	
PLANS PREPARED BY:	
ENGINEER	
LICENSE NO.	
EXP. DATE	

NEWPORT BEACH FIRE DEPARTMENT