Sprinkler Design Data

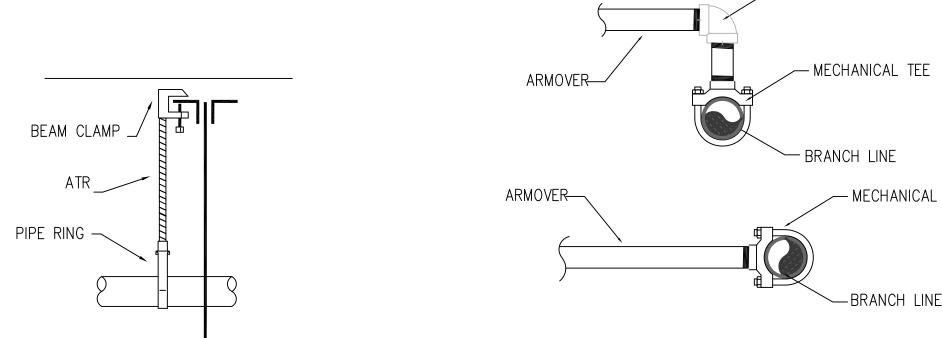
Project Name: HARNETT COUNTY YMCA	System: 1			
Project Street Address: 107 CARLETTA CA	GLE DR. CAMERON, NC	Sys. Sq. Ft.: 40,000 +/-		
Suite: n/a	Floor#: n/a	Ceiling Height: varies		
Designed By: K. Wilder	Phone: 910-892-1700	Total Bldg. Hgt.: 21'-0"		
Occupancy: GYM	Hazard: LIGHT			

Design Summary

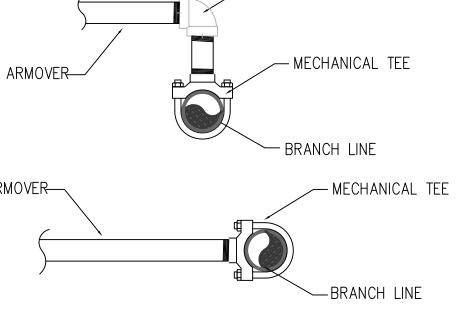
	System #1		
Design Method	Hydraulic Calculated		
Design Area #	1		
Location	GYM		
Type of System	WET		
Hazard Class	LIGHT		
Criteria From	NFPA 13 2013 ED.		
Design Area	1573 SQ. FT.		
Sprinkler Spacing	20' X 20' Max.		
Density	40GPM @ 12.8 PSI		
K-factor	11.2		
Hose Allowance	100		
# Design Sprinklers	7		
Special Application Spk.	n/a		
Requirement @	Test		
G.P.M. Req'd	402.04		
P.S.I. Req'd	42.14		
Safety Factor @	Test= 25.69psi		
Dry Sys. Volume (gal)	N/A		

Water Supply Information

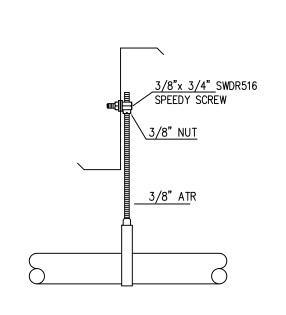
Tested by	LARRY KING & ASSO	C. Date/Time	3/26/19 2:12 pm	Pressure Hydrant				
Hydrant Elevation	371'	Flow Hydrant # 1	H.M. CAGLE DR.	Flow Hydrant #2	_			
Static (PSI)	82	Residiual (PSI)	32	Flow (gpm)	795			
Copy of Water Test Data Included with Calculation is required								



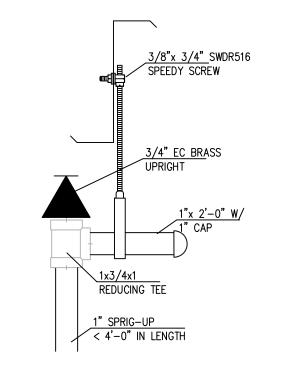




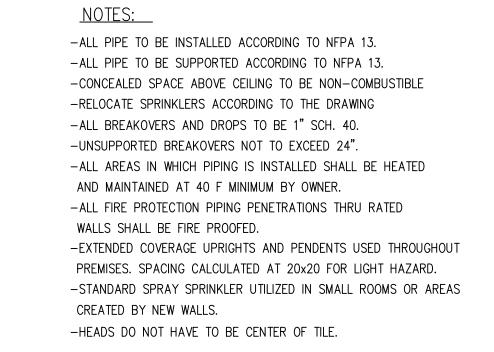
MECHANICAL TEE DETAIL
NTS



#6S HANGER DETAIL
NTS



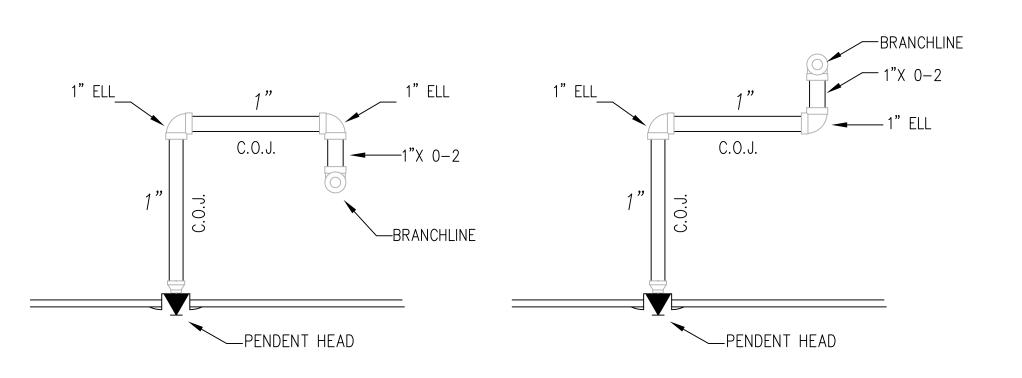
SPRIG-UP SUPPORT DETAIL
NTS



Reviewed For Code Compliance By:

D. Banks Wallace Chief Deputy Fire Marshal

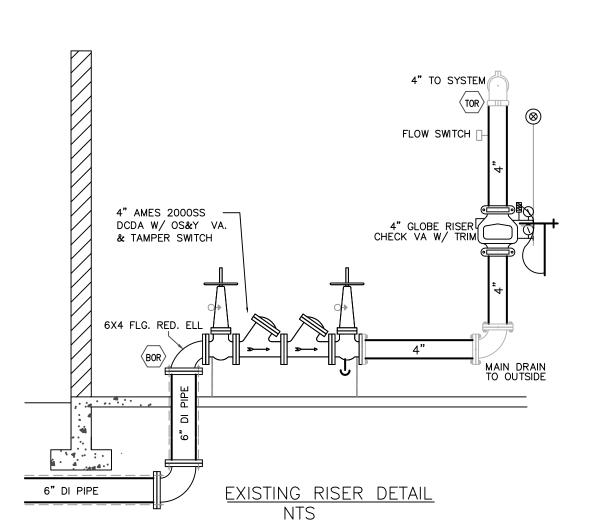
07/16/2019 2:45:52 PM



PENDENT PIPING DETAILS NTS

Confirm

Diameters



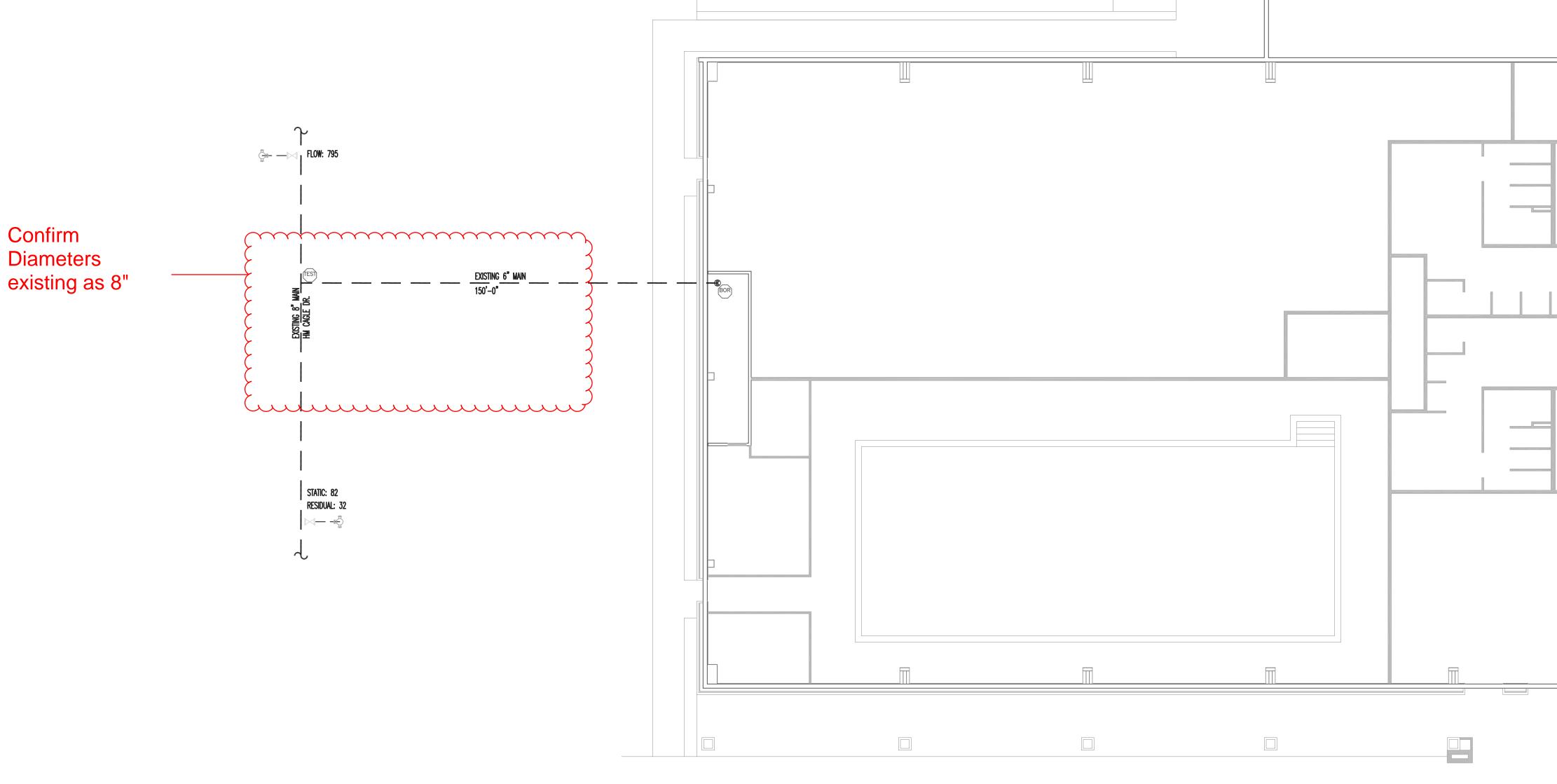
SPRINKLER LEGEND

- NEW CHROME EC PENDENT SPRINKLER(27)
- ⊗ NEW STAND SPRAY CHROME PENDENT(17)
- O NEW EC BRASS UPRIGHT SPRINKLER(45)
- --- EXISTING SPRINKLER MAIN PIPING
- ----- NEW BRANCHLINE PIPE

---- EXISTING GRID LINE PIPING

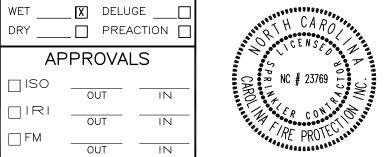
- ____ L NEW TEE-LOX (MECH-TEE)(25)

- EXISTING EC PENDENT SPRINKLER TO REMAIN
 - © EXISTING EC UPRIGHT SPRINKLER
- RELOCATE EXISTING EC PENDENT SPRINKLER TO NEW LOCATION AS SHOWN (17)





sprinkler systems and in enclosures for dry pipe, deluge or other types of valves controlling water supplies to sprinkler systems. This drawing including all information and design concept herein contained is the property of Carolina Fire Protection Company, Inc. and is loaned upon express conditions that the same be returned to CFP,Inc. upon request: all information contained herein shall be treated	CONTRACT RESPO ITEM STREET WATER CONNECTION UNDERGROUND WATER MAINS EXCAVATIONS BACKFILL WIRING PAINTING	NSIBILITIES C.F.P. /OTHERS N/A N/A N/A N/A N/A N/A N/A N/	13 C/L OF PIPE BELOW BUD 12-4 C/L OF PIPE ABOVE REF. 10) HYDRAULIC REF. POINT LINE DESIGNATION A 1 MAIN DESIGNATION HANGER HUNION GROOVED COUPLING (GC) SCREWED CAP GROOVED CAP	FIRE DEPT.CONN.(STANDARD) MONITOR SWITCH BUTTERFLY VALVE ALARM VALVE (ALV) DRY PIPE VALVE WAFER CHECK VALVE SYSTEM RISER INSPECTOR'S TEST FIRE DEPT.CONN.(STANDARD) FIRE DEPT.CONN.(SIDEWALK) FIRE DEPT.CONN.(SIDEWALK) FIRE DEPT.CONN.(STANDARD) FIRE DEPT.CONN.(SIDEWALK) FIRE DEPT.CONN.(SIDEWALK) FIRE DEPT.CONN.(SIDEWALK) FIRE DEPT.CONN.(SIDEWALK) FIRE DEPT.CONN.(SIDEWALK) FIRE DEPT.CONN.(STANDARD) FIRE DEPT.CONN.(STANDARD) FIRE DEPT.CONN.(STANDARD) FIRE DEPT.CONN.(SIDEWALK) FIRE DEPT.CONN.(SIDEWALK) FIRE DEPT.CONN.(SIDEWALK) FIRE DEPT.CONN.(SIDEWALK) FIRE DEPT.CONN.(SIDEWALK) FIRE DEPT.CONN.(SIDEWALK) FIRE DEPT.CONN.(STANDARD) FIRE DEPT.	ABBREVIATIONS BOB Bottom of Beam BOD Bottom of Deck BOP Bottom of Pipe DO Ditto HV Hose Valve N & C Nipple and Cap NIC Not in Contract NTS Not to Scale OBJ Open Bar Joist PRV Pressure Red. Valve RM Roof Manifold SP Standpipe TOB Top of Beam TOP Top of Pipe
as secret, and confidential: no reproduction of this drawing or any part thereof shall be made without written consent of CFP,Inc.			_	-\$ INSPECTOR'S TEST -\$\(\delta\) = \$\delta\\$ \\delta\\$	SP Standpipe TOB Top of Beam TOP Top of Pipe TOS Top of Steel UNO Unless Noted Otherwise



SYSTEM TYPE

WET _____X DELUGE _____

APPROVALS

OUT IN

OUT IN

	SPRINKLER SYMBOL DESCRIPTION										MEGAPIRATION
	SYMBOL	SIZE	MODEL	MAKE	SIN	FINISH	STYLE	TEMP	K-FACTOR	TOTAL	
	0	3/4	QR	VIKING	VK593	BRASS	UPRIGHT	155°	11.2	45	
	•	3/4	QR	VIKING	VK608	CHROME	RECESSED EXTENDED COVERAGE PENDENT	155°	11.2	27	
	8	1/2	QR	RELIABLE	RA1414	CHROME	RECESSED STANDARD SPRAY PENDENT	155°	5.6	17	Carolina
1888											FIRE
\$ 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8											Protection
											4055 HODGES CHAPEL ROAD
											Dunn,N.C. 28334 Phone (910) 892—1700
	TOTAL SPRINKLERS SHOWN ON THIS SHEET 89								Fax (910) 892-7322		
	TOTAL SF	PRINKLERS	REQUIRED	ON THIS CON	NTRACT					89	rux (310) 092-7322

		NO. DAT	E BY	REVISION	NS — SEE	E FLAGGE	ED AREA ON PLAN
	CONTRACT NAME: H	ARNETT 107 CAR	COUNT ETTA CAGI		_		CHECKED BY: M:FORD
	CONTRACT WITH: —	CA	MERON, NC	;			DATE: 6-5-19
arolina	DESCRIPTION:		DETAILS				SCALE:
FIRE		SYSTEM	DESIGN	DATA			AS SHOWN CONTRACT NO:
OTECTION	HAZARD CLASSIFICATION: HYDRAULIC DESIGN DATA DESIGN DATA		PM/SQ. FT.	SYSTEM ARE		SQ. FT. Q. FT./HEAD	19E384
HODGES CHAPEL ROAD Dunn,N.C. 28334	AREA OF APPLICATION: TOTAL SYSTEM REQUIREMENTS:	- SG). FT.	HOSE ALLOWANCES: PSI. AT		PM	DRAWN BY: KJW
ne (910) 892-1700 (910) 892-7322	WATER SUPPLY STATIC PRESSURE:		SIDUAL PRESSURE:	- PSI. w/	-	GPM FLOWING	DRAWING NO. FP 1 of 3

