FIRE PROTECTION SYMBOLS TAMPER SWITCH FLOW SWITCH PRESSURE SWITCH OPEN SCREW AND YOKE VALVE (OS & Y) **BUTTERFLY VALVE ─**|`| CHECK VALVE ALARM CHECK VALVE DRY PIPE VALVE UPRIGHT SPRINKLER PENDANT SPRINKLER SIDEWALL SPRINKLER SYSTEM RISER FIRE DEPARTMENT CONNECTION FREE STANDING FIRE DEPARTMENT CONNECTION FIRE HYDRANT FIRE PROTECTION WATER SUPPLY —— F —— —— SP —— AUTOMATIC SPRINKLER SYSTEM **ELBOW DOWN** ELBOW UP

RISER DIAGRAM NOTES

TO BUILDING WET

WET SPRINKLER RISER DIAGRAM

SPRINKLER SYSTEM

(16) DOUBLE CHECK DETECTOR ASSEMBLY.

20 AIR PRESSURE MAINTENANCE DEVICE

23) LOW AIR ALARM SWITCH (WIRED TO

26) EXISTING MECHANICAL PIPE SLEEVE

21 AIR COMPRESSOR (120 VOLT) - SUFFICIENT TO

PROVIDE SYSTEM CHARGE WITHIN 30 MINUTES

24) PROVIDE TAMPER SWITCH ON OS&Y VALVE. WIRED BY EC.

(28) STORZ DEPARTMENT CONNECTION WITH "STANDPIPE

(29) TIE IN POINT FOR NEW 6" SPRINKLER SERVICE (BY

COORDINATE HOSE THREAD AND STYLE
WITH LOCAL FIRE DEPARTMENT. MOUNT AT A MINIMUM

BASEMENT FLOOR

VALVES. WIRED BY EC.

17) NOT USED

(18) ACCELERATOR

19 RELIEF VALVE

(22) CONDENSATE DRAIN

FIRE PANEL BY E.C.)

25 VIKING DRY PIPE VALVE

27 PIPE SUPPORT RODS

SYSTEM" LETTERING.

SPRINKLER CONTRACTOR)

PROVIDE TAMPER SWITCHES ON OS&Y

1 CHECK VALVE

3 BALL DRIP

8 WATER GUAGE

9 PIPE STANCHION

2 2" DRAIN PIPED TO TRAPPED STANDPIPE

5 VIKING RETARDING CHAMBER B-3

6 FLOW SWITCH. WIRED BY EC.

7 PRESSURE SWITCH MODEL A-1

12 VIKING ALARM CHECK VALVE

13 2" MAIN DRAIN VALVE

14 ALARM TEST VALVE

15 2" MAIN DRAIN

TO BUILDING DRY

SPRINKLER

BASEMENT FLOOR

10 VIKING WATER MOTOR ALARM F-1 WITH POTTER

11) 4" MAIN. CEMENT LINED DUCTILE IRON.

4 STORZ DEPARTMENT CONNECTION WITH "AUTO SPRINKLER" LETTERING. COORDINATE HOSE THREAD AND STYLE WITH

LOCAL FIRE DEPARTMENT. MOUNT AT A MINIMUM OF 24" AFG.

ROEMER SIGN 6340, "WHEN BELL RINGS CALL FIRE DEPARTMENT"

THIS RISER DIAGRAM IS FOR GENERAL INFORMATION ONLY. THE INSTALLATION OF THE

SPRINKLER SYSTEM SHALL BE IN COMPLIANCE WITH NFPA 13.

6

ABBREVIATIONS				
ADA AFF AMB AMP AV BLDG BTUH CAP CD CI CCO CP CDIA DN DWG E.C EFF EL EQUIP ETR EXF FC FCD FDC FT FPM FS G GAL	ACCESS DOOR AMERICAN DISABILITY ACT ABOVE FINISH FLOOR AMBIENT AMPERE ACID VENT ACID WASTE BUILDING BOTTOM BRITISH THERMAL UNITS BRITISH THERMAL UNITS PER HOUR COMPRESSED AIR CAPACITY CONDENSATE DRAIN CAST IRON CEILING CLEAN OUT CONDENSATE PUMP COLD WATER DIRECT DIGITAL CONTROL DIAMETER DOWN DRAWING ELECTRICAL CONTRACTOR EFFICIENCY ELEVATION EQUIPMENT EXPANSION TANK EXISTING TO REMAIN ENTERING WATER TEMPERATURE EXISTING FAHRENHEIT FLEXIBLE CONNECTION FLOOR CLEAN OUT FLOOR DRAIN FIRE DEPARTMENT CONNECTION FEET FEET PER MINUTE FLOOR SINK GAS GALLON	KEC L LB LF LVR LWT MAX MBH MC MFR MIN MTD NC NFRH NIC OC P PD PLBG PRES PSIG PVC RD RH RM RPM RWC SRWC SAN SD SHT SPEC TEMP TYP VEL VFDV V VTR VCO	KITCHEN EQUIPMENT CONTRACTOR LENGTH POUND LINEAR FEET LOUVER LEAVING WATER TEMPERATURE MAXIMUM BTUH x 1000 MECHANICAL CONTRACTOR MANUFACTURER MINIMUM MOUNTED NORMALLY CLOSED NON-FREEZE ROOF HYDRANT NOT IN CONTRACT ON CENTER PUMP PLUMBING CONTRACTOR PRESSURE DROP PLUMBING PRESSURE POUNDS PER SQUARE INCH GAUGE POLYVINYL CHLORIDE ROOF DRAIN RELATIVE HUMIDITY ROOM REVOLUTIONS PER MINUTES RAINWATER CONDUCTOR SECONDARY ROOF DRAIN SANITARY STORM DRAIN SHEET SPECIFICATIONS TEMPERATURE TYPICAL VELOCITY VARIABLE FREQUENCY DRIVE VENT VENT THROUGH ROOF VERTICAL CLEANOUT	
G	GAS	V VTR	VENT VENT THROUGH ROOF	
HWR IN IN WC INV	HOT WATER HOT WATER RETURN INCH INCHES, WATER COLUMN INVERT			

SPRINKLER ARRANGEMENT IS A GENERAL ORIENTATION. CONTRACTOR SHALL PERFORM HYDRAULIC CALCULATIONS TO DETERMINE REQUIRED PIPE SIZE AND THE QUANTITY OF HEADS REQUIRED FOR THE SPACE. THE CONTRACTOR SHALL COORDINATE INSTALLATION WITH THE ARCHITECT TO ENSURE PROPER PLACEMENT OF THE PIPING AND HEADS. THE CONTRACTOR SHALL ALSO COORDINATE PAINTING OF THE PIPING WITH THE ARCHITECT.

FIRE PROTECTION NOTES:

- FURNISH AND INSTALL A COMPLETE WET-PIPE AND DRY PIPE SPRINKLER SYSTEM THROUGHOUT THE ENTIRE BUILDING IN COMPLIANCE WITH NFPA 13 AND NFPA 20.
- 2. THE FIRE PROTECTION SYSTEM FOR THIS BUILDING SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE LOCAL WATER AUTHORITY, NFPA STANDARDS, FACTORY MUTUAL, UNDERWRITERS LABORATORY, BOCA CODES, STATE AND LOCAL CODES, AND THE STATE AND LOCAL AUTHORITY HAVING JURISDICTION.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING A NEW HYDRANT FLOW TEST ON WHICH TO BASE THE HYDRAULIC CALCULATIONS. INCOMING PRESSURE CALCULATIONS ARE BASED ON ESTIMATED 90PSI.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HYDRAULICALLY CALCULATING AND SIZING ALL PIPING SO THAT THE SYSTEM PERFORMS ACCORDING TO LISTED STANDARDS.
- 5. RUN CONCEALED PIPING, EXCEPT IN MECHANICAL ROOMS OR WHERE NOTED OTHERWISE. RUN CONCEALED PIPING ON ROOM SIDE OF BUILDING INSULATION, UNLESS NOTED OTHERWISE.
- 6. INSTALL ACCESS PANELS WHERE REQUIRED FOR ACCESS TO CONCEALED VALVES, DRAINS OR EQUIPMENT WHERE NO OTHER MEANS IS PROVIDED. INSTALL ACCESS PANELS IN FIRE RATED CONSTRUCTION TO MAINTAIN RATING.
- 7. CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE. COORDINATE WORK WITH NEW STRUCTURAL, ARCHITECTURAL, MECHANICAL AND ELECTRICAL FEATURES AND PROVIDE OFFSETS AND FITTINGS AS REQUIRED.
- 8. THE SHOP DRAWINGS HYDRAULIC CALCULATIONS SHALL BE SUBMITTED TO THE OWNER'S INSURANCE COMPANY AND THE AUTHORITY HAVING JURISDICTION. THE APPROVAL OF BOTH OF THESE AGENCIES SHALL BE RECEIVED BEFORE SHOP DRAWINGS AND CALCULATIONS ARE SUBMITTED TO THE ENGINEER. FAILURE TO DO SO WILL RESULT IN REJECTION OF THE SHOP DRAWINGS.
- 9. FURNISH OPERATIONAL, MAINTENANCE, AND EMERGENCY INSTRUCTIONS TO THE RESPONSIBLE DESIGNATED MAINTENANCE STAFF BEFORE ANY PART OF THE SYSTEM IS TURNED OVER TO THE OWNER, AND SUBMIT TO THE ENGINEER AS TO WHAT INFORMATION WAS GIVEN TO WHOM AND WHEN.
- 10. CEILING HEIGHTS FOR THIS PROJECT ARE FINAL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH OTHER PRIME CONTRACTORS TO MAINTAIN THESE CEILING HEIGHTS. PIPING IS TO BE OFFSET AS REQUIRED TO MAINTAIN CEILING HEIGHTS.
- 11. PROVIDE SIGNAGE ABOVE FIRE DEPARTMENT CONNECTION, AND INSPECTION TEST DRAINS.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING AREAS OF THE BUILDING CURRENTLY PROTECTED BY AUTOMATIC SPRINKLER SYSTEM. THESE AREA SYSTEMS SHALL BE MODIFIED AS REQUIRED AND CONNECTED TO NEW SYSTEM.

NOTE:
NOT ALL ABBREVIATIONS AND
SYMBOLS INDICATED MAY APPEAR ON
THESE CONTRACT DRAWINGS. THIS IS
FOR REFERENCE ONLY.

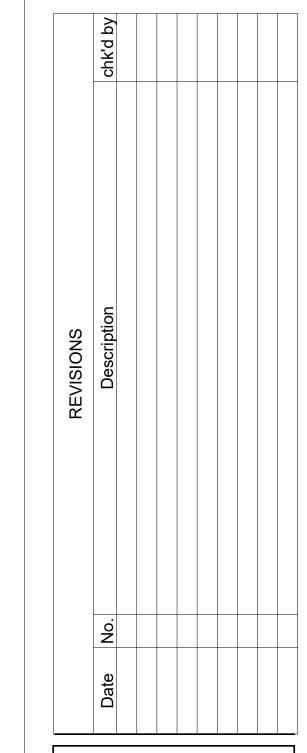


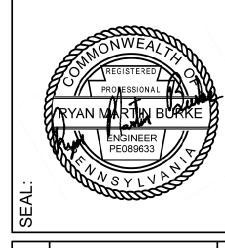
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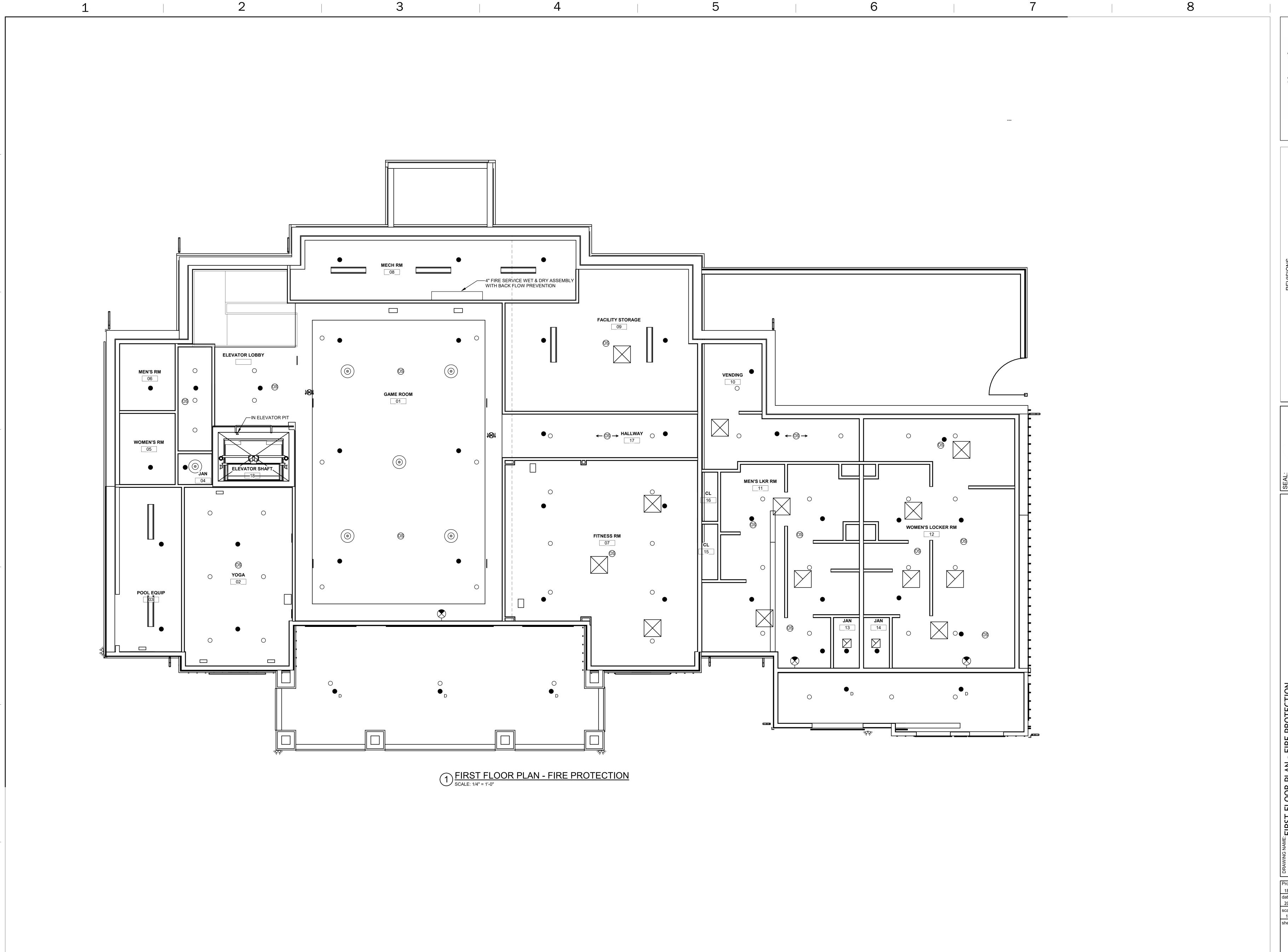
ON SHEET S AT GREYSTONE DR. WEST GOSHEN TOWNSHIP

FIRE PROTECTION INFORMATION SHEET

WOODLANDS AT
SCULTHORPE DR. WEST GC

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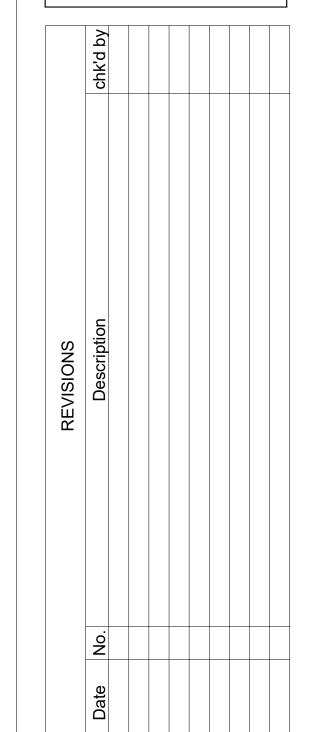
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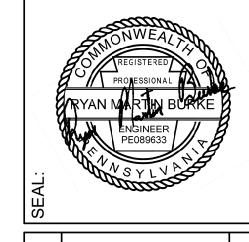


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PRAWING NAME: FIRST FLOOR PLAN - FIRE PROTECTION

WOODLANDS AT GREYSTONE
SCULTHORPE DR. WEST GOSHEN TOWNSHIP
CHESTER COUNTY, PA

18-053 RMB

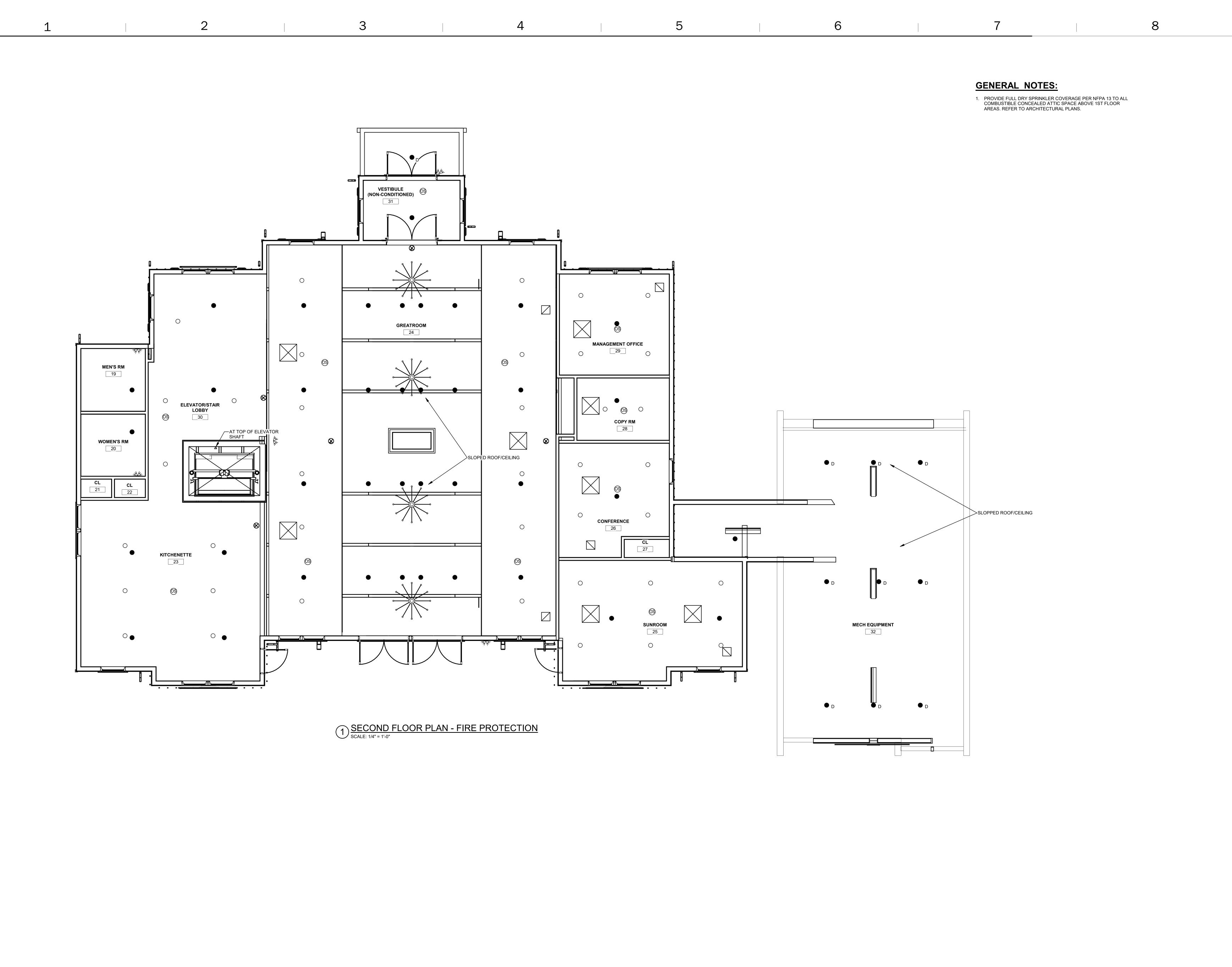
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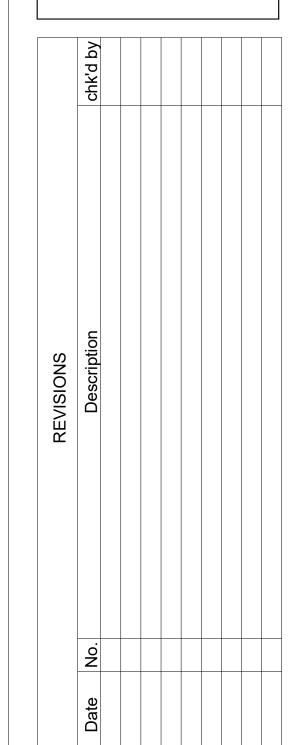


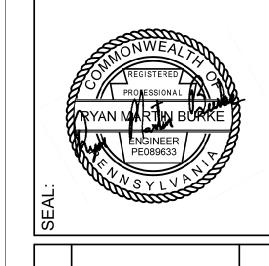
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PRAWING NAME: SECOND FLOOR PLAN - FIRE PROTECTION

WOODLANDS AT GREYSTONE
SCULTHORPE DR. WEST GOSHEN TOWNSHIP
CHESTER COUNTY, PA

18-053 RMB

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