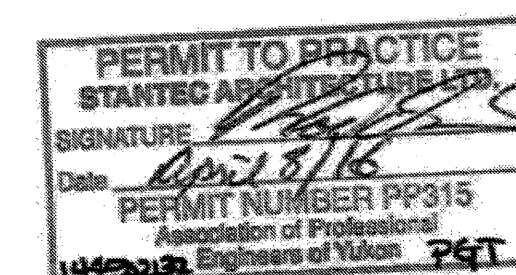
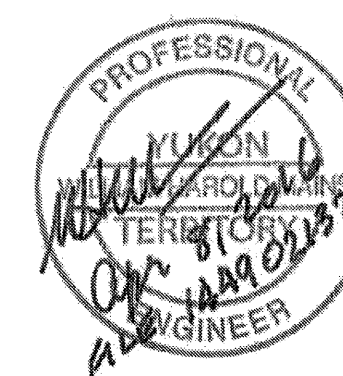


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GENERAL NOTES

- DEMOLISH EXISTING PIPE & SPRINKLERS.
- INSTALL NEW PIPE ON SAME ALIGNMENT AS DEMOLISHED PIPE.
- COORDINATE WITH GENERAL CONTRACTOR TO REMOVE & RETAIN BULKHEAD & FINISH MATERIALS TO REPAIR ACCESS POINTS.
- REMOVE & RETAIN CHASES & BULKHEAD MATERIALS USED TO HIDE EXISTING PIPE FOR REUSE & RE-INSTALLATION TO COVER NEW PIPE.
- PIPE LENGTHS AND DIMENSIONS SHOWN FOR GENERAL LAYOUT & ARRANGEMENT. CONTRACTOR TO FIELD VERIFY DIMENSIONS AND ADJUST TO MEET FIELD CONDITIONS.



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|-----------|-------------------------|-----------|
| 0 | ISSUED FOR TENDER | 16/04/05 |
| Revision/ | Description/Description | Date/Date |

Client/client

PARKS CANADA AGENCY

WESTERN AND NORTHERN REGION

Project title/Titre du projet
**DAWSON CITY
YUKON TERRITORY
PALACE GRAND THEATRE
FOUNDATION / MECHANICAL
/ ELECTRICAL RENOVATION
AND GENERAL UPGRADE**

Consultant Signature Only

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Drawing title/Titre du dessin

FIRE PROTECTION PLANS: SECOND FLOOR & ATTIC SPACE

| | | |
|---|---|---|
| Project No./No. du projet R.068835.001 | Sheet/Feuille M203 9 OF 15 | Revision no./ La Révision no. 0 |
|---|---|---|

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Design Summary: Zone 2 (Theatre)

Project Palace Grand Theatre
King Street & Third Street
Dawson, Yukon

Summary Data

Occupancy: Light Hazard
Floor Area: 2,024 sq. ft. (188.0 sq. m.)
Sprinkler Coverage: Up to 163 sq. ft. (15.1 sq. m.) per sprinkler
Number of Sprinklers: 31
Type of Sprinklers: K5.6 Dry Head (Pendant)
Required Pressure: 60 psi (413 kPa)
Required Flow: 520 USgpm (1968 L/min)
Hose Allowance: 100 USgpm (379 L/min)
Total Flow: 620 USgpm (2347 L/min)
Fire Flow: Static Pressure: 80 psi (552 kPa)
Fire Flow: Residual Pressure and Flow: 26 psi (179 kPa) @ 1,610 USgpm (6094 L/min)
Estimated safety margin: 11.0 psi (76 kPa)

- Notes:**
- No reduction of design area included for quick response sprinklers due to ceiling height.
 - Dry sprinkler system with 30% increase of design area to maximum of area within fire separation.

KEYNOTES

- HEAD GUARDS ON ALL SPRINKLERS IN STAGE AREA ON LEVELS 1&2
- HORIZONTAL LOW POINT DRAIN IN BULK HEAD. PROVIDE ACCESS TO VALVES & DRAIN CONNECTION
- INSTALL MAINS WITHIN BULKHEAD TO MATCH EXISTING
- INSTALL NEW SPRINKLERS AT SAME LOCATION AS DEMOLISHED SPRINKLERS
- HEAD LOCATED WITHIN CONCEALED SPACE UNDER STAIRS.

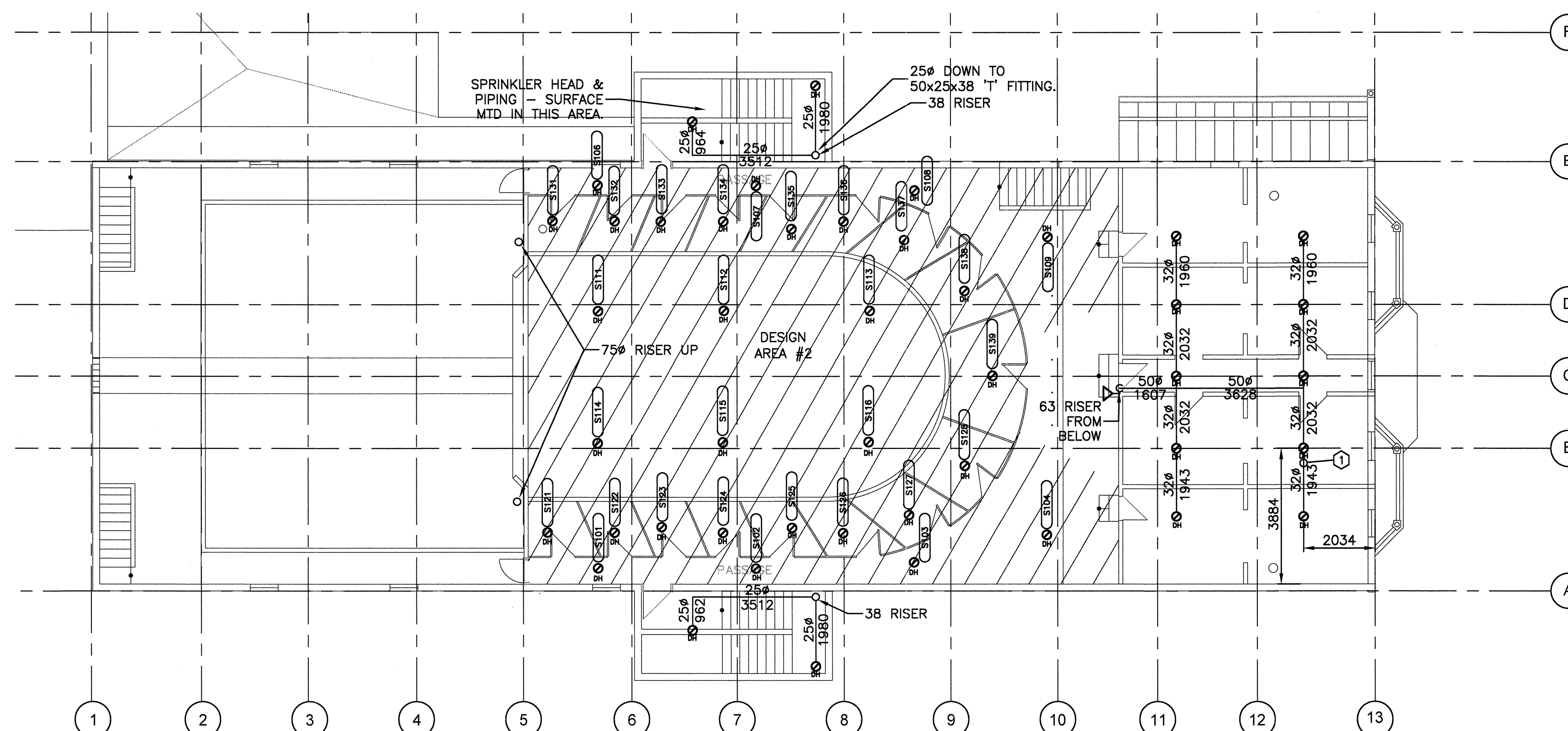
Design Summary: Zone 1 (Stage)

Project Palace Grand Theatre
King Street & Third Street
Dawson, Yukon

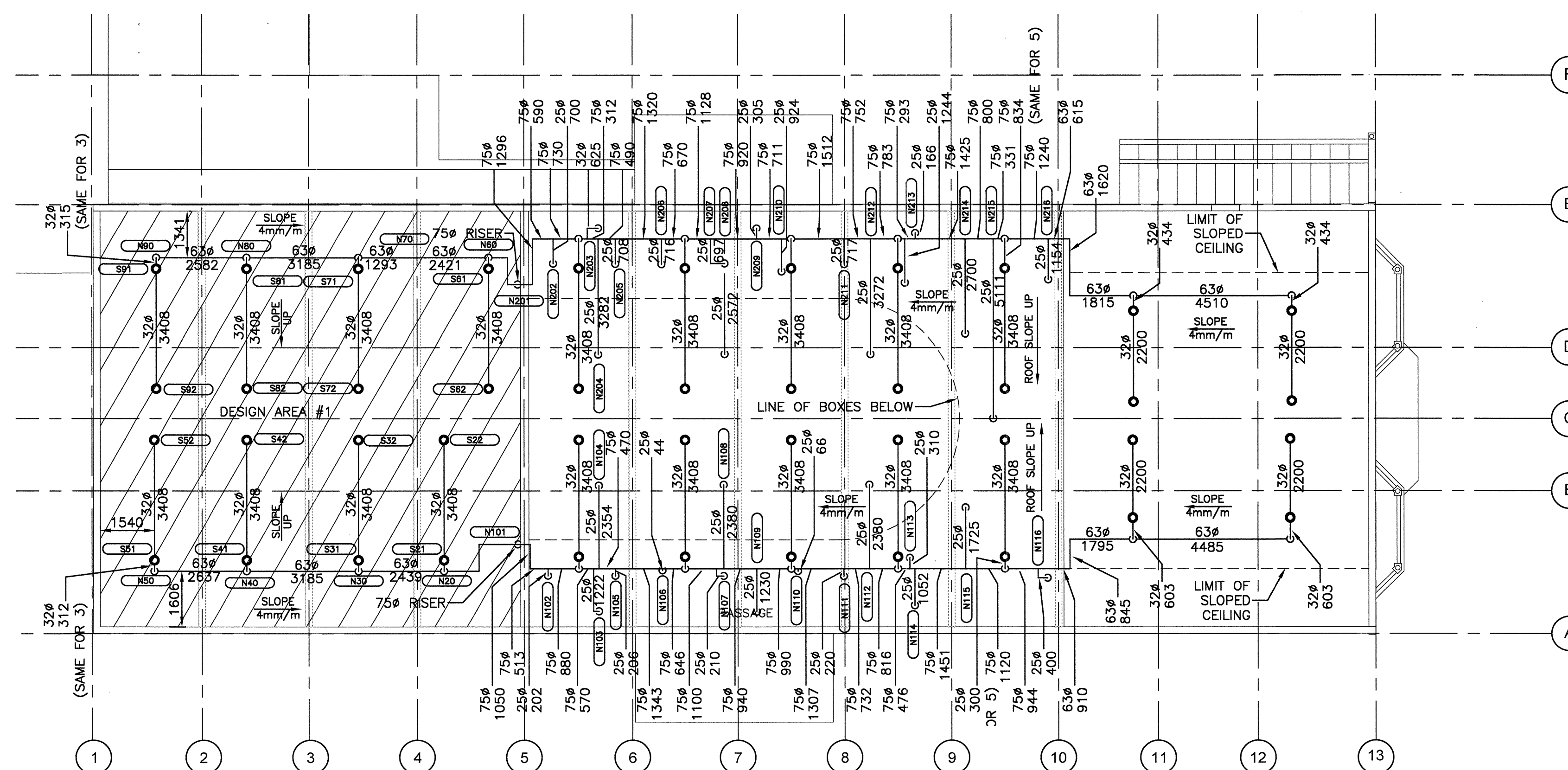
Summary Data

Occupancy: Ordinary Hazard - Group 2; 0.2 gpm / ft² (8.1 mm/min)
Floor Area: 1,517 sq. ft. (143.4 sq. m.)
Maximum Sprinkler Coverage: 95 sq. ft. (8.8 sq. m.) per Sprinkler
Number of Sprinklers: 20 (includes 4 in deluge zone)
Type of Sprinklers: K5.6 Quick Response (Upright) (K5.6 Open for deluge zone)
Required Pressure: 53 psi (365 kPa)
Required Flow: 408 USgpm (1544 L/min)
Hose Allowance: 250 USgpm (946 L/min)
Total Flow: 658 USgpm (2491 L/min)
Fire Flow: Static Pressure: 80 psi (552 kPa)
Fire Flow: Residual Pressure and Flow: 26 psi (179 kPa) @ 1,610 USgpm (6094 L/min)
Estimated safety margin: 16.3 psi (112 kPa)

- Notes:**
- The calculation includes concurrent flow to the deluge sprinklers at the stage proscenium.
 - No reduction of design area included for quick response sprinklers due to ceiling height.
 - Dry sprinkler system with 30% increase of design area to maximum of area within fire separation.



1 FIRE PROTECTION PLAN - SECOND FLOOR
SCALE: 1:100



2 FIRE PROTECTION PLAN - ATTIC SPACE
SCALE: 1:100