FIRE PROTECTION NOTES:

1. THE ENTIRE ADDITION SHALL BE PROTECTED WITH FULLY AUTOMATIC FIRE SPRINKLERS. AREAS ARE TO BE PROTECTED IN ACCORDANCE WITH "SPRINKLER SYSTEM DESIGN SCHEDULE" THIS SHEET.
2. AUTOMATIC SPRINKLER SYSTEM SHALL BE DESIGNED, FABRICATED, INSTALLED, TESTED AND PLACED INTO SERVICE IN ACCORDANCE WITH NFPA 13, CONTRACT DRAWINGS, SPECIFICATIONS, FM GLOBAL AND THE NASA STANDARD 8719.11A – SAFETY STANDARD FOR FIRE PROTECTION REQUIREMENTS. PRIOR TO INSTALLATION THE CONTRACTOR SHALL SUBMIT PLANS AND HYDRAULIC CALCULATIONS TO FM GLOBAL, NASA FIRE MARSHAL'S OFFICE, BUILDING DEPARTMENT AND PROJECT ENGINEER FOR APPROVAL. NO INSTALLATION WORK SHALL BE STARTED UNTIL APPROVAL IS OBTAINED. THE CONTRACTOR SHALL BE FULLY C–16 LICENSED IN THE STATE OF CALIFORNIA. TO PERFORM COMPLETE DESIGN AND INSTALLATION OF FIRE PROTECTION SYSTEM.
3. C–16 LICENSED SPRINKLER SYSTEM CONTRACTOR SHALL COORDINATE ALL ALARM CIRCUIT CONNECTIONS AT FIRE ALARM CONTROL PANEL WITH THE LICENSED FIRE ALARM DETECTION CONTRACTORS.
4. ALL FIRE PROTECTION EQUIPMENT SUPPLIED SHALL BE APPROVED BY THE ENGINEER, CSFM AND AUTHORITIES HAVING JURISDICTION.
5. ALL SPRINKLER SYSTEMS SHALL BE BRACED AND SUPPORTED IN ACCORDANCE WITH NFPA 13 REQUIREMENTS WITH DUE ALLOWANCES FOR SYSTEM THRUST AND WATER HAMMER FORCES. LOCATIONS AND DETAILS OF ALL PIPING SUPPORTS AND BRACES ARE TO BE INDICATED ON CONTRACTORS SHOP DRAWINGS.
6. ALL FIRE SPRINKLER SYSTEM DESIGN AND SHOP DRAWINGS MUST BE SUBMITTED TO AND APPROVED BY NASA FIRE MARSHALL.
7. LOCATION OF AUXILIARY DRAINS SHALL BE ACCURATELY DETERMINED PER NFPA 13 AND INSTALLED IN THE FIELD. THE SPRINKLER SYSTEM DRAINAGE SHALL DISCHARGE TO A DRAIN CAPABLE OF ACCEPTING FULL FLOW UNDER SYSTEM PRESSURE OR TO A LOCATION WHERE WATER DRAINAGE WILL NOT RESULT IN PROPERTY DAMAGE.
8. ALL PIPE PENETRATIONS AT FIRE RATED WALLS SHALL BE SEALED WITH FIRE RATED MATERIAL IN ACCORDANCE WITH APPROVED UL LISTED FIRE SEAL SYSTEM ASSEMBLY.
9. ALL OF THE SPRINKLER PIPING NETWORK EXCEPT SPRINKLER HEAD DROPS SHALL BE SLOPED FOR COMPLETE DRAINAGE. ALL THE ISOLATED LOW POINTS SHALL BE EQUIPPED WITH AUXILIARY DRAINS. DRAINS SHALL CONSIST OF A VALVE NOT SMALLER THAN 3/4" AND A BRASS PLUG.
10. THE CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL FIRE PROTECTION EQUIPMENT WITH THE BUILDING'S STRUCTURAL, MECHANICAL AND ELECTRICAL ELEMENTS INCLUDING, BUT NOT LIMITED TO STRUCTURAL MEMBERS, AIR DUCTS AND OUTLETS, LIGHT FIXTURES AND SIMILAR EQUIPMENT AND MATERIALS THAT MAY INTERFERE WITH THE PROPER INSTALLATION AND OPERATION OF THE SYSTEM. THE CONTRACTOR'S COORDINATION SHALL BE REFLECTED ON HIS INSTALLATION DWGS THAT ARE SUBMITTED FOR APPROVAL.
11. THE FIRE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY CALCULATED PER NFPA 13. SEE SPRINKLER SYSTEM DESIGN SCHEDULE TABLE FOR REQUIREMENTS.
12. THE SPRINKLER PIPING IS TO BE SIZED TO CONFORM WITH THE CONTRACTORS HYDRAULIC CALCULATIONS BASED UPON AVAILABLE WATER SUPPLY SYSTEM.
13. HYDRAULIC CALCULATIONS MUST BE SUBMITTED TO PROVE THE PROPER DESIGN DENSITIES FOR ALL SEPARATELY CLASSIFIED AREAS.
14. THE INSPECTION, HYDROSTATIC TEST AND FLUSHING OF THE SPRINKLER SYSTEM SHALL BE WITNESSED BY THE FIRE DEPARTMENT.
15. SPACING AND DETAIL OF THE SUPPORT AND BRACING OF FIRE SPRINKLER PIPING SHALL COMPLY WITH LATEST EDITION OF NFPA 13. PROVIDE ANCHORAGE DETAIL AND CALCULATIONS FOR THE CONNECTION OF SWAY BRACING TO THE STRUCTURE. DESIGN LOADS FOR THE ANCHORAGE MAY BE COMPUTED PER TABLE 9.3.5.3.2 (a) & (b) OF THE 2007 NFPA 13.
16. THE SYSTEM SHALL EMPLOY THE USE OF U.L. APPROVED MATERIALS AND DEVICES.
17. AUTOMATIC SPRINKLER SYSTEM SHALL BE SUPERVISED BY AN APPROVED CENTRAL PROPRIETARY OR REMOTE STATION SERVICE OF A LOCAL ALARM WHICH WILL GIVE AN AUDIBLE SIGNAL AT A CONSTANTLY ATTENDED LOCATION.
18. COORDINATE ALL FIRE PROTECTION TAMPER SWITCHES AND FLOW SWITCHES WITH ELECTRICAL SECTION.
19. ALL VALVES SHALL HAVE A PERMANENTLY AFFIXED SIGN INDICATING ITS FUNCTION.
20. THE ENTIRE PIPING SYSTEM SHALL BE HYDROSTATICALLY TESTED AT 200 PSI FOR TWO HOURS OR AT 50 PSI ABOVE THE SYSTEM OPERATING PRESSURE, WHICHEVER IS GREATER.
21. THE BUILDING N232 FIRE PROTECTION SYSTEM MUST BE FULLY MONITORED BY THE FIRE ALARM SYSTEM INCLUDING BUT NOT LIMITED TO: PIV'S, SECTIONAL CONTROL VALVES, WATER FLOW, ETC.
22. SPRINKLERS WILL BE REQUIRED IN AREAS ABOVE AND BELOW THE CEILING.
23. PROVIDE SEISMIC SEPARATION ASSEMBLIES AS NEEDED WHERE PIPING CROSSES BUILDING SEISMIC SEPARATION JOINTS ABOVE GROUND LEVEL PER NFPA 13.

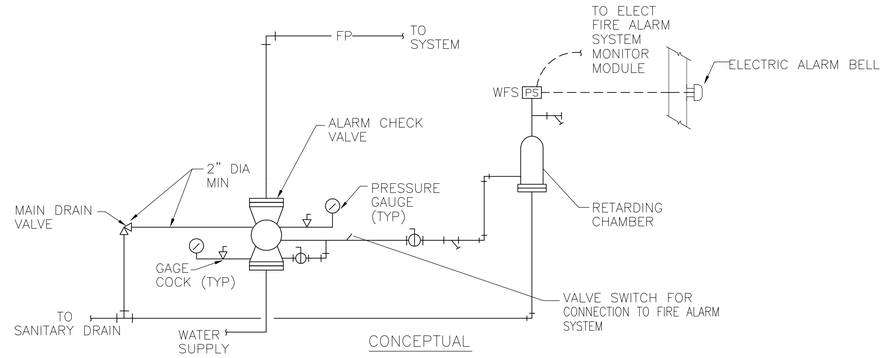
SPRINKLER SYSTEM DESIGN SCHEDULE

BUILDING AREA	SYMBOL	HAZARD CLASS	SYSTEM TYPE	DENSITY (GPM PER SQ. FT.)	SPRINK. SYS. HYDRAULIC DESIGN AREA (SQ. FT.)	SPRINKLER HEADS MAX. SPACING (SQ. FT.)	TEMP. °F	POSITION	TYPE	HOSE ALLOWANCE OUTSIDE (GPM)	REMARKS	DURATION MINUTES
OFFICE AREAS		ORDINARY HAZARD GROUP 1	WET PIPE	0.15	1500	130	165	PENDENT (RECESSED) UPRIGHT	BRASS (IN UNFINISHED CEILING AREAS)	500	REFER TO UNIFIED FACILITIES CRITERIA TABLE 4.1	60
MECH. ROOM, ELEVATOR MECH. ROOM, ELECT. ROOM		ORDINARY HAZARD GROUP 2	WET PIPE	0.20	1500	130	165	UPRIGHT	BRASS (IN UNFINISHED CEILING AREAS)	500	REFER TO UNIFIED FACILITIES CRITERIA TABLE 4.1	90

FIRE SPRINKLER LEGEND & ABBREVIATIONS

ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
CLG	CEILING
CONT	CONTINUATION
CSFM	CALIFORNIA STATE FIRE MARSHALL
DET	DETAIL
DEPT	DEPARTMENT
DIA	DIAMETER
DN	DOWN
EL	ELEVATION
ELECT	ELECTRICAL
EQUIP	EQUIPMENT
°F	DEGREES FAHRENHEIT
FIN	FINISHED
FLR	FLOOR
FT	FEET
FDC	FIRE DEPT. CONNECTION
GAL	GALLONS
GPM	GALLONS PER MINUTE
IN.	INCH
LBS	POUNDS
MAX	MAXIMUM
MIN	MINIMUM
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NTS	NOT TO SCALE
OS&Y	OUTSIDE SCREW AND YOKE VALVE
SYS	SYSTEM
SQ.FT.	SQUARE FOOT
SPRNK	SPRINKLER
UL	UNDERWRITERS LABORATORIES
W/	WITH

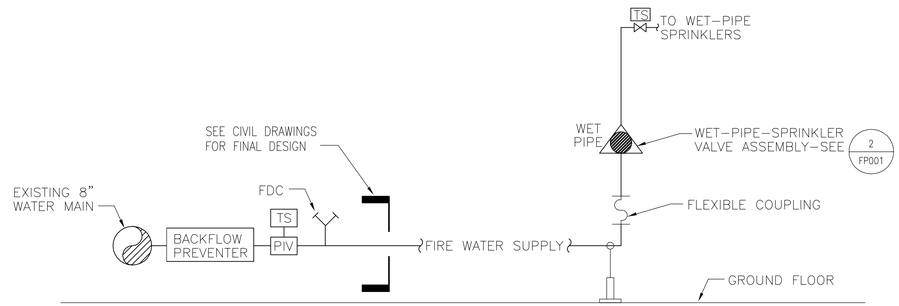
	WET PIPE SPRINKLER RISER
	OUTSIDE SCREW AND YOKE VALVE (SUPERVISED)
	PRE–ACTION VALVE ASSEMBLY
	ZONE CONTROL ASSEMBLY
	FIRE DEPARTMENT CONNECTION
	CHECK VALVE
	CHECK VALVE w/BALL DRIP
FS	FLOW SWITCH, VANE TYPE
	PRESSURE GAUGE
TS	TAMPER SWITCH
101	ROOM NUMBER
F	ALARM BELL, 10", WEATHERPROOF, 90" AFF
— —FP—	UNDERGROUND FIRE PROTECTION PIPING
	FLEXIBLE COUPLING
	FIRE RISER



WET PIPE SPRINKLER VALVE DETAIL

SCALE: NONE

2 / FP001



NOTE:

RISER MANIFOLD IS SHOWN CONCEPTUALLY ONLY, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE ALL PIPING FITTINGS AND VALVE TRIM NECESSARY FOR A COMPLETE, APPROVED AND OPERATIONAL SYSTEM. REFER TO VALVE DETAIL DWGS. FOR MORE DETAIL ON TRIM PIPING FOR EACH VALVE ASSEMBLY. CONNECTIONS TO FIRE ALARM SYSTEM (FACP) NOT SHOWN.

SPRINKLER RISER ELEVATION DETAIL

SCALE: NONE (CONCEPTUAL)

1 / FP001

FIRE PROTECTION DRAWINGS ARE FOR PERFORMANCE/SCOPE ONLY. CONTRACTOR IS REQUIRED TO SUBMIT SPRINKLER SHOP DRAWINGS FOR REVIEW AND APPROVAL. FIRE PROTECTION CONTRACTOR SHALL DO HIS OWN FLOW AND PRESSURE TESTS IN COORDINATION WITH NASA FIRE MARSHALL.

THE FIRE MAIN RUNS EAST AND WEST ALONG THE SOUTH SIDE OF THE BUILDING. THE EXACT PIPING LAYOUT ON SITE SHALL BE VERIFIED IN THE FIELD, BY SURVEYING AND FROM THE NASA MANAGER. IF DRAWINGS ARE NOT AVAILABLE THE EXACT LENGTH, SIZE, MATERIAL, DEPTH AND ALL REQUIRED PERTINENT INFORMATION SHALL BE OBTAINED BY THE CONTRACTOR BY SURVEYING THE SITE. THE CONTRACTOR SHALL ALSO PROVIDE ALL LABOR AND MATERIAL FOR OFF–HOUR POINT OF CONNECTIONS.

PROJECT STATUS: BID SET 04/27/09

ISSUE	DATE	DESCRIPTION
1	04/27/2009	BID SET

MARK	DATE
DRAWN: C. EVANS	DATE
DESIGNED: C. MOYERS	DATE
CHECKED: E. MIYODA	DATE
PROJ.MGR: J. GRANT	DATE
REQUESTOR: R. SCHULER	DATE
R&QA	DATE
SAFETY	DATE
SUPERVISOR: S. FRANKEL	DATE

Ames Research Center
Moffet Field, California

N232 COLLABORATIVE SUPPORT FACILITY

FIRE PROTECTION LEGEND AND ABBREVIATIONS

SIZE	CAGE CODE		REV
D	25307	A232-0800- FP001	

SCALE | INDEX | SHEET OF

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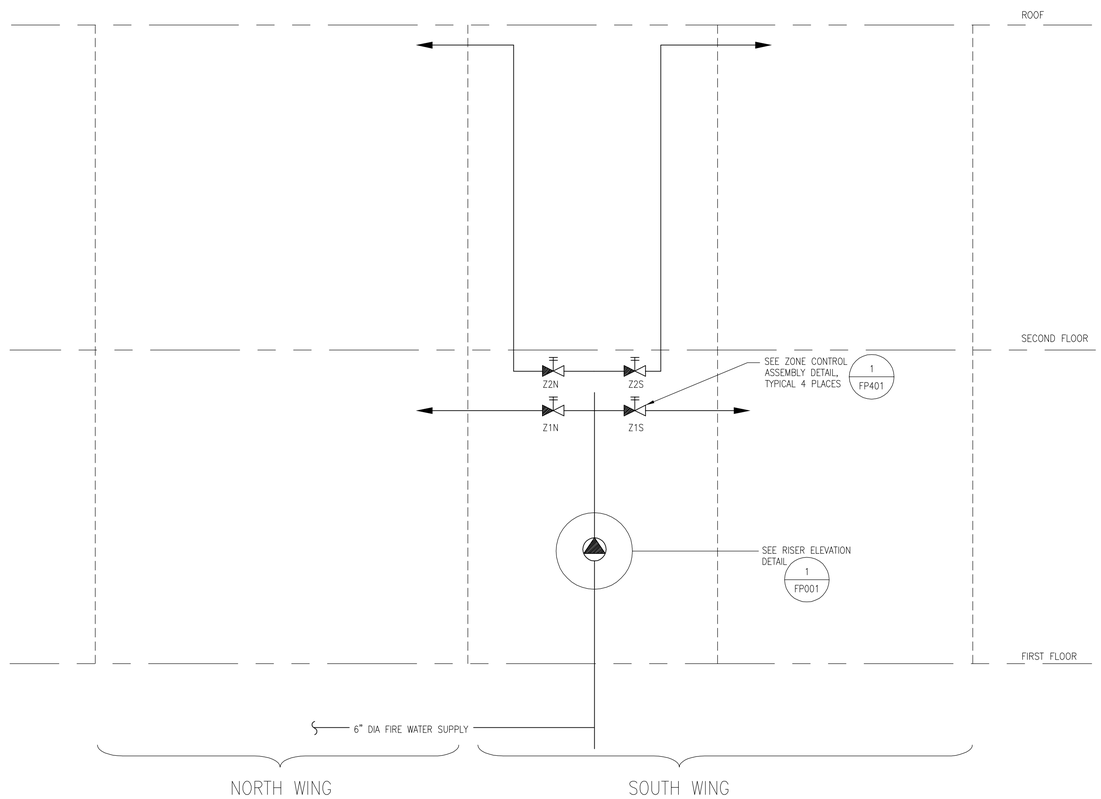

FIRE PROTECTION SINGLE LINE DIAGRAM

SCALE: NONE

FIRE PROTECTION DRAWINGS ARE FOR PERFORMANCE/SCOPE ONLY. CONTRACTOR IS REQUIRED TO SUBMIT SYSTEM SHOP DRAWINGS TO AOR/EOR FOR REVIEW AND APPROVAL.

PROJECT STATUS

BID SET 04/27/09

ISSUE		
1	04/27/2009	BID SET
MARK	DATE	DESCRIPTION

DRAWN	C. EVANS	DATE
DESIGNED	C. MOYERS	DATE
CHECKED	E. MIYODA	DATE
PROJ.MGR	J. GRANT	DATE
REQUESTOR	R. SCHULER	DATE
NSGA		DATE
SAFETY		DATE
SUPERVISOR	S. FRANKEL	DATE

Ames Research Center
Moffet Field, California

N232 COLLABORATIVE SUPPORT FACILITY

FIRE PROTECTION
SINGLE LINE DIAGRAM

SIZE	CAGE CODE		REV
D	25307	A232-0800- FP110	
SCALE		INDEX	SHEET OF

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DATE: Apr 24, 2009 - 4:26:46 pm Images:
Xrefs:

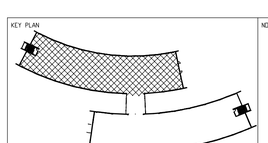
SHEET NOTES

1. SPRINKLER HEAD LOCATION AND PIPING RUNS ARE DIAGRAMATIC ONLY AND ARE NOT INTENDED TO SHOW SUGGESTIVE SPRINKLER LOCATIONS BUT ONLY TO SHOW AREAS REQUIRING SPRINKLER COVERAGE. SPECIALIST SPRINKLER CONTRACTOR WILL NEED TO ACCOUNT FOR COOLING PANELS, LIGHTS, DUCTWORK, HARD CEILINGS AND OTHER OBSTACLES TO PROVIDE SPRINKLER COVERAGE THAT WILL MEET ALL CODE REQUIREMENTS.
2. SEE SHEETS A241, A242, A251, AND A252 FOR REFLECTED CEILING PLANS.
3. SEE SHEET M301 – MECHANICAL SECTIONS FOR LOCATION OF FP MAINS THROUGH STRUCTURAL BEAMS.

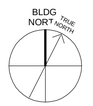
KEY NOTES

1. PROVIDE SPRINKLER COVERAGE AT TOP OF STAIRWELL AND UNDER LANDING.
2. COORDINATE LOCATION OF SPRINKLER IN ROOM WITH ROOM OWNER.

KEY PLAN



NORTH ARROW



3/32"=1' 0 8 16 32 48

PROJECT STATUS

BID SET 04/27/09

ISSUE		
1	04/27/2009	BID SET
MARK	DATE	DESCRIPTION

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REQUESTER	R. SCHULER	DATE
R&QA		DATE
SAFETY		DATE
SUPERVISOR	S. FRANKEL	DATE

Ames Research Center
Moffet Field, California

N232 COLLABORATIVE SUPPORT FACILITY

FIRE PROTECTION PARTIAL FIRST FLOOR PLAN NORTH WING

SIZE	CAGE CODE		REV
D	25307	A232-0800- FP211	2
SCALE 3/32" = 1'-0"	INDEX	SHEET OF	

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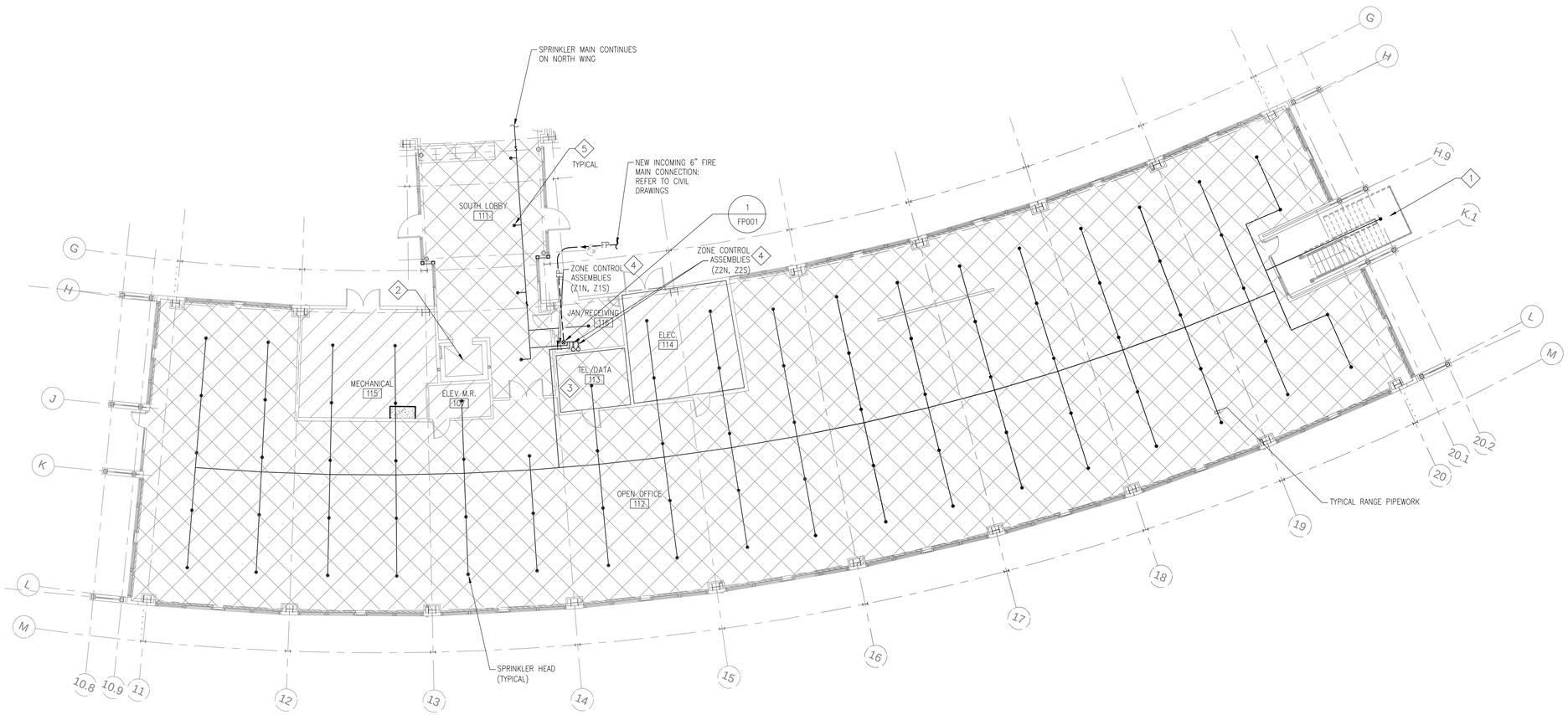


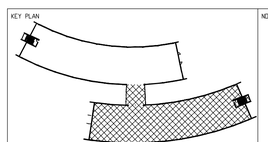
SHEET NOTES

1. SPRINKLER HEAD LOCATION AND PIPING RUNS ARE DIAGRAMATIC ONLY AND ARE NOT INTENDED TO SHOW SUGGESTIVE SPRINKLER LOCATIONS BUT ONLY TO SHOW AREAS REQUIRING SPRINKLER COVERAGE. SPECIALIST SPRINKLER CONTRACTOR WILL NEED TO ACCOUNT FOR COOLING PANELS, LIGHTS, DUCTWORK, HARD CEILINGS AND OTHER OBSTACLES TO PROVIDE SPRINKLER COVERAGE THAT WILL MEET ALL CODE REQUIREMENTS.
2. SEE SHEETS A241, A242, A251, AND A252 FOR REFLECTED CEILING PLANS.
3. SEE SHEET M301 – MECHANICAL SECTIONS FOR LOCATION OF FP MAINS THROUGH STRUCTURAL BEAMS.

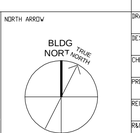
KEY NOTES

1. PROVIDE SPRINKLER COVERAGE AT TOP OF STAIRWELL AND UNDER LANDING.
2. PROVIDE SPRINKLER AT TOP OF ELEVATOR HOISTWAY AND SIDEWALL SPRINKLER AT BOTTOM OF ELEVATOR HOISTWAY NOT MORE THAN 2 FT ABOVE FLOOR OF THE PIT.
3. COORDINATE LOCATION OF SPRINKLER IN ROOM WITH ROOM OWNER.
4. ZONE CONTROL ASSEMBLY DRAIN TO BE ROUTED TO NEAREST FLOOR DRAIN. SEE DETAIL 1/FP401 FOR ZONE CONTROL ASSEMBLY COMPONENTS.
5. PROVIDE SPRINKLER COVERAGE UNDER LINK BRIDGE IN SOUTH LOBBY 111.

KEY PLAN



NORTH ARROW



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PROJECT STATUS

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1	04/27/2009	BID SET
MARK	DATE	DESCRIPTION

DRAWN	C. EVANS	DATE
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PROJ.MGR	J.GRANT	DATE
REQUESTOR	R SCHULER	DATE
RLGA		DATE
SAFETY		DATE
SUPERVISOR	S. FRANKEL	DATE

Ames Research Center
Moffet Field, California

N232 COLLABORATIVE SUPPORT FACILITY

FIRE PROTECTION
PARTIAL FIRST FLOOR PLAN
SOUTH WING

SIZE	CAGE CODE			REV
D	25307	A232-0800-	FP212	2
SCALE 3/32" = 1'-0"		INDEX	SHEET OF	

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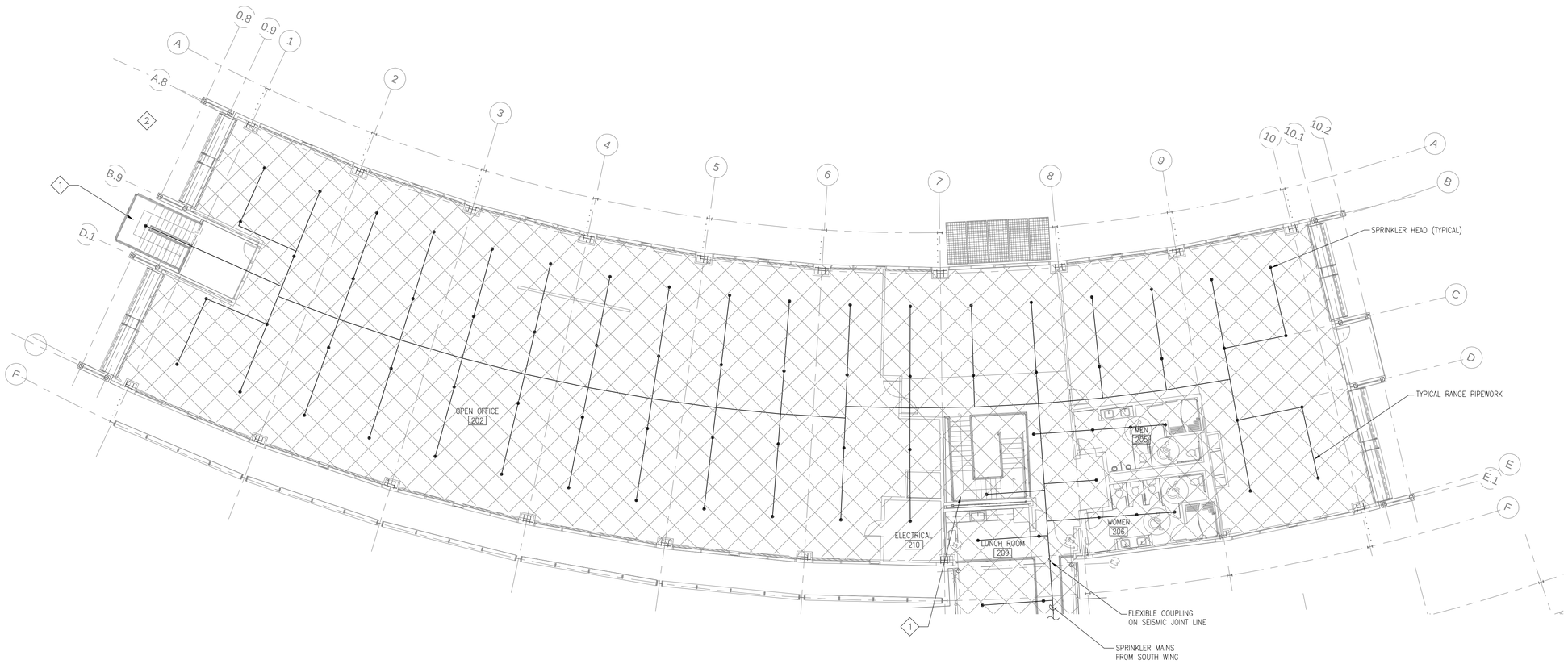
DATE: Apr 24, 2009 – 4:24:43 pm Images:
Xrefs:

SHEET NOTES

1. SPRINKLER HEAD LOCATION AND PIPING RUNS ARE DIAGRAMATIC ONLY AND ARE NOT INTENDED TO SHOW SUGGESTIVE SPRINKLER LOCATIONS BUT ONLY TO SHOW AREAS REQUIRING SPRINKLER COVERAGE. SPECIALIST SPRINKLER CONTRACTOR WILL NEED TO ACCOUNT FOR COOLING PANELS, LIGHTS, DUCTWORK, HARD CEILINGS AND OTHER OBSTACLES TO PROVIDE SPRINKLER COVERAGE THAT WILL MEET ALL CODE REQUIREMENTS.
2. SEE SHEETS A241, A242, A251, AND A252 FOR REFLECTED CEILING PLANS.
3. SEE SHEET M301 – MECHANICAL SECTIONS FOR LOCATION OF FP MAINS THROUGH STRUCTURAL BEAMS.

KEY NOTES

1. PROVIDE SPRINKLER COVERAGE AT TOP OF STAIRWELL AND UNDER LANDING.
2. PROVIDE INSPECTOR TEST CONNECTION AT MOST HYDRAULICALLY REMOTE POINT. ROUTE INSPECTOR TEST CONNECTION DRAIN TO NEAREST FLOOR DRAIN.



KEY PLAN

NORTH ARROW

BLDG NORTH

TRUE NORTH

3/32"=1' 0 8 16 32 48

PROJECT STATUS		
BID SET 04/27/09		
ISSUE		
1	04/27/2009	BID SET
MARK	DATE	DESCRIPTION
DRAWN C. EVANS	DATE	
DESIGNED C. MOYERS	DATE	
CHECKED E. MIYODA	DATE	
PRO.MGR J. GRANT	DATE	
REQUESTOR R. SCHULER	DATE	
R&DA	DATE	
SAFETY	DATE	
SUPERVISOR S. FRANKEL	DATE	

Ames Research Center
Moffet Field, California

N232 COLLABORATIVE SUPPORT FACILITY
FIRE PROTECTION
PARTIAL SECOND FLOOR PLAN
NORTH WING

SIZE	CAGE CODE			REV
D	25307	A232-0800-	FP221	2
SCALE 3/32" = 1'-0"		INDEX	SHEET OF	

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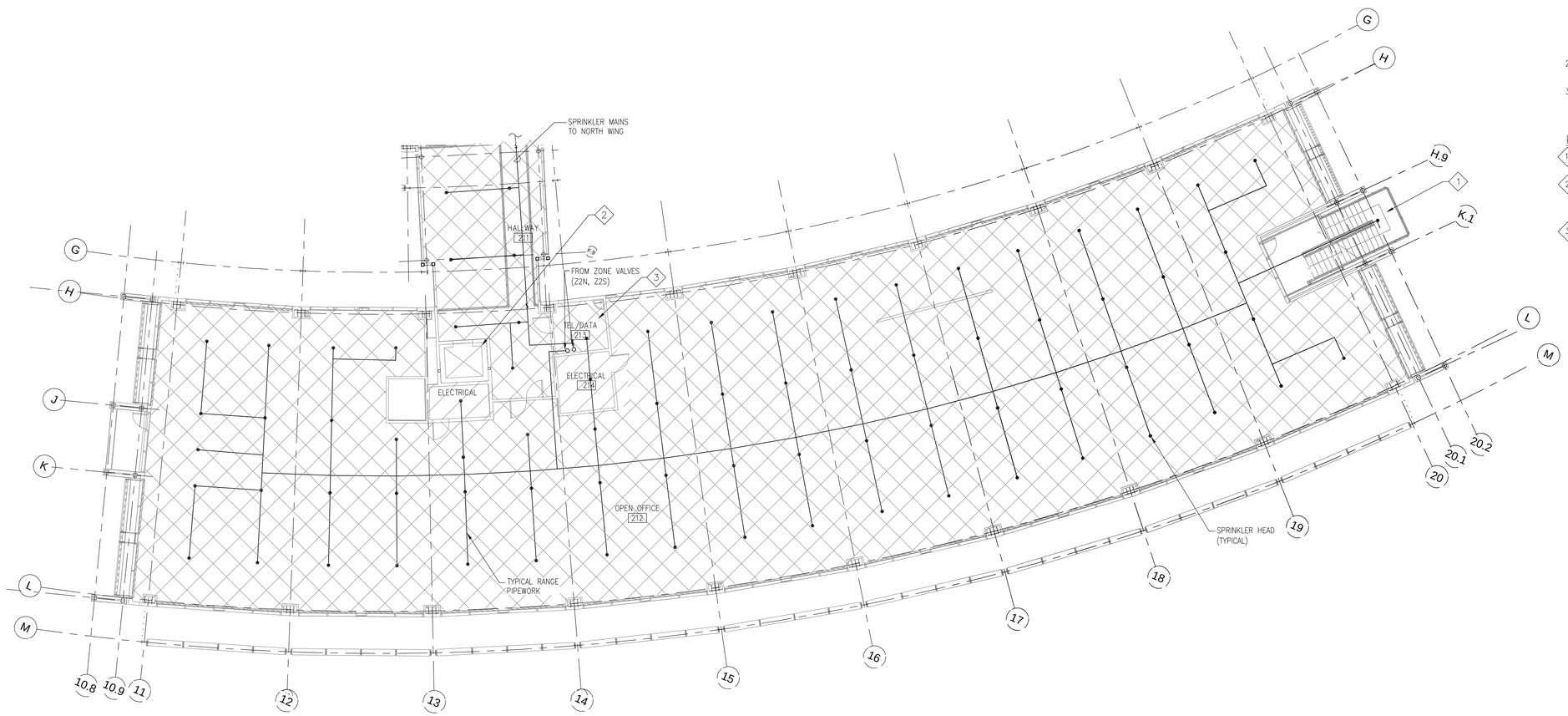

SHEET NOTES

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2. SEE SHEETS A241, A242, A251, AND A252 FOR REFLECTED CEILING PLANS.
3. SEE SHEET M301 – MECHANICAL SECTIONS FOR LOCATION OF FP MAINS THROUGH STRUCTURAL BEAMS.

KEY NOTES

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2. PROVIDE SPRINKLER AT TOP OF ELEVATOR HOISTWAY AND SIDEWALL SPRINKLER AT BOTTOM OF ELEVATOR HOISTWAY NOT MORE THAN 2 FT ABOVE FLOOR OF THE PIT.
3. COORDINATE LOCATION OF SPRINKLER IN ROOM WITH ROOM OWNER.

KEY PLAN

NORTH ARROW

BLDG NORTH
TRUE NORTH

3/32"=1' 0 8 16 32 48

PROJECT STATUS

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1	04/27/2009	BID SET
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R&QA		DATE
SAFETY		DATE
SUPERVISOR	S. FRANKEL	DATE

Ames Research Center
Moffet Field, California

N232 COLLABORATIVE SUPPORT FACILITY

FIRE PROTECTION
PARTIAL SECOND FLOOR PLAN
SOUTH WING

SIZE	CAGE CODE			REV
D	25307	A232-0800-	FP222	2
SCALE 3/32" = 1'-0"		INDEX	SHEET OF	

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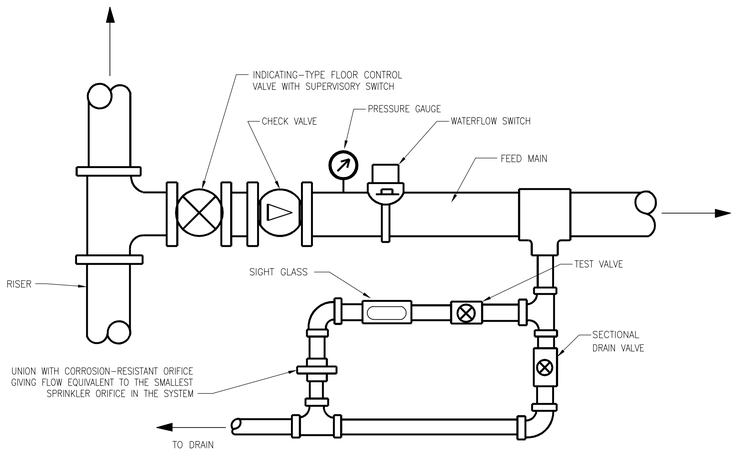
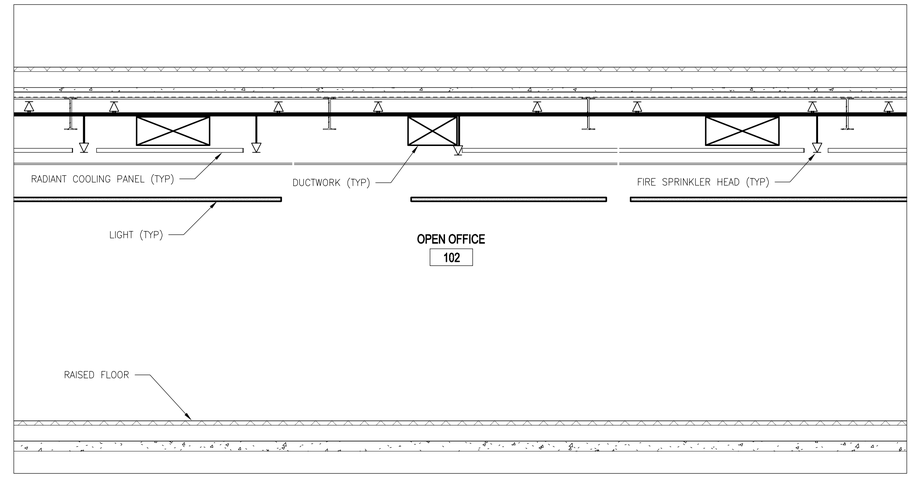


ZONE CONTROL ASSEMBLY DETAIL

SCALE: NONE (CONCEPTUAL)

1 / FP401



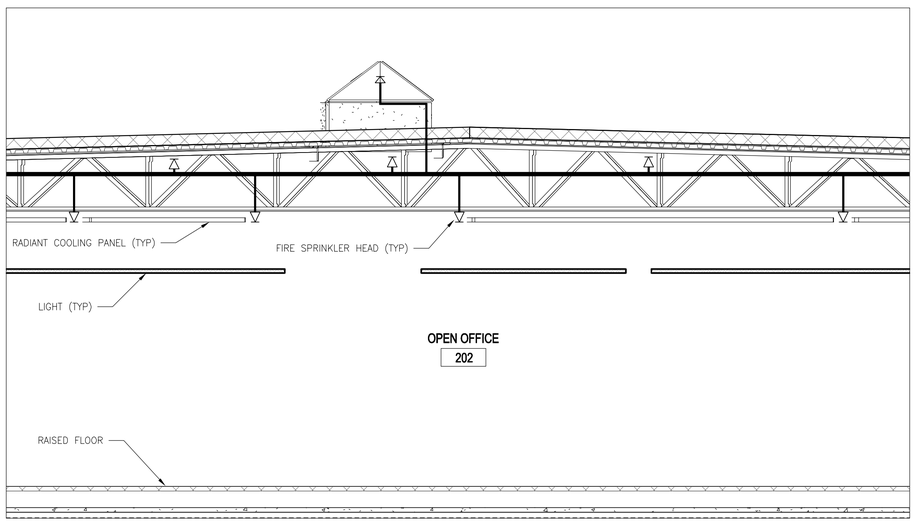
SPRINKLER RISER FIRST FLOOR ELEVATION DETAIL

SCALE: NONE (CONCEPTUAL)

2 / FP401

SHEET NOTES

1. SPRINKLER HEAD LOCATION AND PIPING RUNS ARE DIAGRAMMATIC ONLY AND ARE NOT INTENDED TO SHOW SUGGESTIVE SPRINKLER LOCATIONS BUT ONLY TO SHOW AREAS REQUIRING SPRINKLER COVERAGE. SPECIALIST SPRINKLER CONTRACTOR WILL NEED TO ACCOUNT FOR COOLING PANELS, LIGHTS, DUCTWORK, HARD CEILINGS AND OTHER OBSTACLES TO PROVIDE SPRINKLER COVERAGE THAT WILL MEET ALL CODE REQUIREMENTS.
2. SEE SHEET M301 – MECHANICAL SECTIONS FOR LOCATION OF FP MAINS THROUGH STRUCTURAL BEAMS.
3. FOR A STANDARD SPRINKLER, THE MAXIMUM ALLOWABLE DISTANCE OF IT'S DEFLECTOR ABOVE THE BOTTOM OF A COOLING PANEL IS 0 INCHES FOR DISTANCES LESS THAN 1 FOOT FROM THE SPRINKLER TO THE COOLING PANEL. SEE NFPA 13 FOR OTHER CONFIGURATIONS.
4. FOR AN EXTENDED COVERAGE SPRINKLER, THE MAXIMUM ALLOWABLE DISTANCE OF IT'S DEFLECTOR ABOVE THE BOTTOM OF A COOLING PANEL IS 0 INCHES FOR DISTANCES LESS THAN 1 FOOT 6 INCHES FROM THE SPRINKLER TO THE COOLING PANEL. SEE NFPA 13 FOR OTHER CONFIGURATIONS.
5. SEE SHEET A312 – BUILDING SECTIONS FOR HEIGHTS OF COOLING PANELS AND LIGHTS.



SPRINKLER RISER SECOND FLOOR ELEVATION DETAIL

SCALE: NONE (CONCEPTUAL)

3 / FP401

PROJECT STATUS

BID SET 04/27/09

ISSUE		
1	04/27/2009	BID SET

MARK	DATE	DESCRIPTION

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REQUESTOR	R. SCHULER	DATE
R&QA		DATE
SAFETY		DATE
SUPERVISOR	S. FRANKEL	DATE

Ames Research Center
Moffet Field, California

N232 COLLABORATIVE SUPPORT FACILITY

FIRE PROTECTION DETAILS

SIZE	CAGE CODE		REV
D	25307	A232-0800- FP401	
SCALE	INDEX	SHEET OF	

DWG: P:_TECHNOLOGY\60048886 – NASA Ames FP\FP401 Bound.dwg User: Moyersc
DATE: Apr 24, 2009 – 4:27:55 pm Images:
Xrefs: