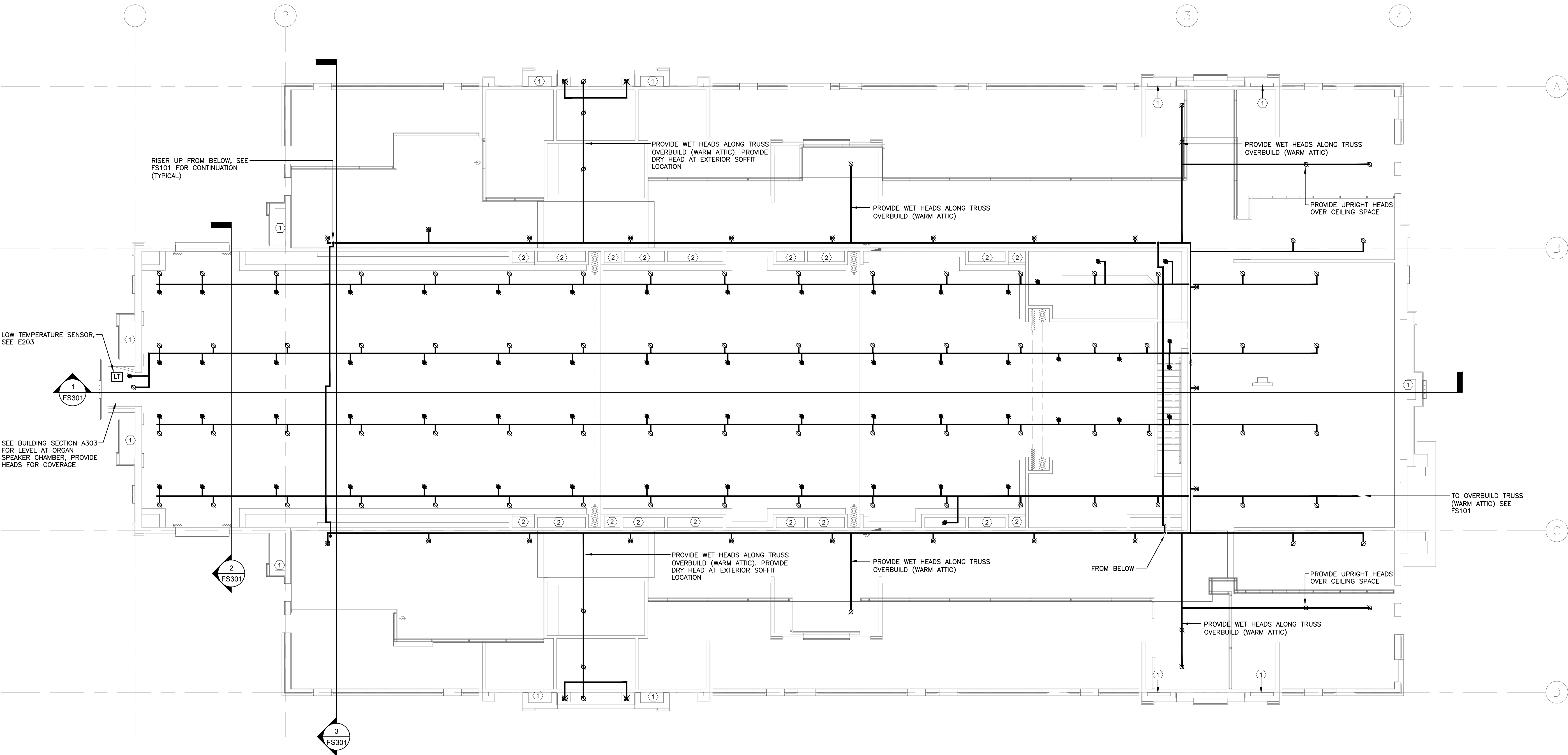




1 EQUIPMENT PLATFORM FIRE SPRINKLER PLAN
FS102 SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. INSTALL FIRE PROTECTION PIPING AS SHOWN, WET-PIPE SYSTEM THROUGHOUT ALL AREAS OF THE BUILDING. BUILDING HAS A WARM ATTIC.
2. USE DRY-BARREL TYPE SPRINKLERS IN CANOPIES AND VESTIBULES WHEN SUPPLIED FROM WET SYSTEM.
3. OBTAIN APPROVAL FOR PIPING CHANGES FROM ARCHITECT AND ENGINEER.
4. RUN PIPING LEVEL OR SLOPED TO DRAIN AS DESIGNATED IN NFPA 13.
5. THE FIRE SPRINKLER SYSTEM SHALL BE DESIGNED PER THE REQUIREMENTS OF NFPA 13, LIGHT HAZARD FOR THE MAIN LEVEL AND ATTIC WITH THE EXCEPTION OF THE SERVING AREA, MECHANICAL ELECTRICAL AND JANITOR AREAS WHICH SHALL BE DESIGNED AS ORDINARY HAZARD GROUP 1, AND THE PLATFORM THAT WILL BE DESIGNED AS ORDINARY HAZARD GROUP 2. (GENERAL INTENT SHOWN).
6. SPRINKLER HEAD SPACING:
6.1. LIGHT HAZARD: 225 SQ. FT.
6.2. ORDINARY HAZARD: 130 SQ. FT.
6.3. ATTIC: 130 SQ. FT. PER HEAD.
7. SEE SITE PLAN FOR UTILITY CONNECTION AND LOCATION OF FIRE HYDRANTS.
8. DO NOT ROUTE PIPING THRU STRUCTURAL MEMBERS OR MECHANICAL DUCT WORK EXCEPT AS SHOWN ON THE DRAWINGS.
9. SEE REFLECTED CEILING PLAN FOR EXACT LOCATION OF SPRINKLER HEADS. SPRINKLER HEADS DO NOT HAVE TO BE CENTERED IN THE ONE FOOT ACOUSTICAL TILES.
10. COORDINATE WITH FRAMER FOR SHEAR-WALL PENETRATIONS.
11. ALL SPRINKLERS SHALL BE QUICK-RESPONSE TYPE.
12. ALL WET-PIPE SYSTEM COMPONENTS (EXCEPT DRY SPRINKLERS) SHALL BE INSIDE THE BUILDING INSULATION ENVELOPE. SEE BUILDING SECTION A301, A302, A303 AND A304. COORDINATE INSTALLATION OF HANGERS WITH SPRAY FOAM SCHEDULE.
13. ALL REQUIRED DRAINS SHALL FOLLOW NFPA 13 REQUIREMENTS. DRAIN VALVES SHALL BE LOCATED TO PREVENT PUBLIC ACCESS AND SHALL BE PIPED TO DISCHARGE OUTSIDE THE BUILDING.
14. PROVIDE CHROME GUARDS TO HEADS IN CANOPIES, SIDEWALL VESTIBULES, ELECT 111, ORGAN 146 AND STORAGE 157.
15. PROVIDE WIRE GUARDS TO ALL HEADS ALONG TRAVEL ROUTES OF ATTIC AND EQUIPMENT PLATFORM TO PREVENT ACCIDENTAL DISCHARGE.
16. SEE SPECIFICATIONS FOR REQUIRED PIPE, HEADS, FITTINGS, HANGERS, SUPPORT SPACING AND SPARE HEADS FOR MAINTENANCE SUPPLY.
17. SPRINKLER ENGINEER TO PROVIDE AUTOCAD 2014 COMPATIBLE 'AS-BUILT' DRAWINGS AT COMPLETION OF PROJECT.
18. SPRINKLER ENGINEER TO PROVIDE SCHEDULE A2, B1, B2 & C2.
19. INSTALL SPRINKLER PIPING WITHIN 2X10 EQUIPMENT PLATFORM FRAMING TO ALLOW MAINTENANCE ACCESS ROUTE.
20. USE OF SADDLE OR HOLE CUT TYPE MECHANICAL TEES IS NOT APPROVED SEE SPECIFICATIONS.
21. REFER TO DRAWINGS A101 AND A104 FOR FIRE EXTINGUISHER LAYOUT AND SPECIFICATION.

KEY NOTES

- ① VOID SPACE TO BE FILLED WITH ROXUL BATT INSULATION (TYPICAL); REFER TO ARCHITECTURAL.
- ② VOID SPACE TO BE LINED WITH 5/8" GYPSUM BOARD AND FIRE TAPED; REFER TO ARCHITECTURAL.



MARK	DATE	REVISION
1	JAN 8 2020	ISSUED FOR COORDINATION
2	FEB 11 2020	ISSUED FOR REVIEW
3	FEB 28 2020	ISSUED FOR COORDINATION
4	MAR 12 2020	ISSUED FOR COORDINATION
5	MAR 20 2020	ISSUED FOR BP/TENDER

ARCHITECT

GDG
Architectural Group

1919 10th Avenue S.W.
Calgary, Alberta,
T3C 0K3
(403) 229 3233

CONSULTANTS

STRUCTURAL

ROCKY MOUNTAIN ENGINEERING INC.
1919 10th Avenue S.W.
Calgary, Alberta T3C 0K3
(403) 274-0227

MECHANICAL

AME Group Consulting Mechanical Engineers
710 - 1122 4th Street S.W.
Calgary, Alberta T2R 1M1
(403) 252-2333

ELECTRICAL

Maskell Plenzik & Partners Engineering Inc.
206, 610-70th Avenue S.E.
Calgary, Alberta T2H 2J6
(403) 509-2005

NATIONAL ENERGY CODE

908 Engineering Incorporated
P.O. Box 20020
Red Deer, Alberta T4N 6X5
(403) 986-2939

AUDIO / VIDEO

SLR Consulting (Canada) Limited
1185, 10201 Southport Road S.W.
Calgary, Alberta T2W 4X9
(403) 266-2030

LANDSCAPE

IBI Group
3rd Floor - 227 11th Avenue S.W.
Calgary, Alberta T2R 1R9
(403) 270-5600

CIVIL

ELI Consulting Inc.
230 Edgebrook Circle N.W.
Calgary, Alberta T3A 5A2
(403) 607-0049

GDG NUMBER 16123

STAMP

STAMP

PROJECT FOR

THE CHURCH OF

JESUS CHRIST

OF LATTER-DAY SAINTS

PROJECT NAME

SETON

GRANGER 250

CALGARY ALBERTA

BOW RIVER STAKE

PROJECT ADDRESS

530 SETON PASSAGE S.E.

CALGARY, ALBERTA

SHEET TITLE

EQUIPMENT

PLATFORM FIRE

SPRINKLER PLAN

PROJECT DESIGNATION

500-7688-1901-0101

WO NUMBER

GML 1068

PROPERTY NUMBER

500-7688

DEVELOPMENT NUMBER

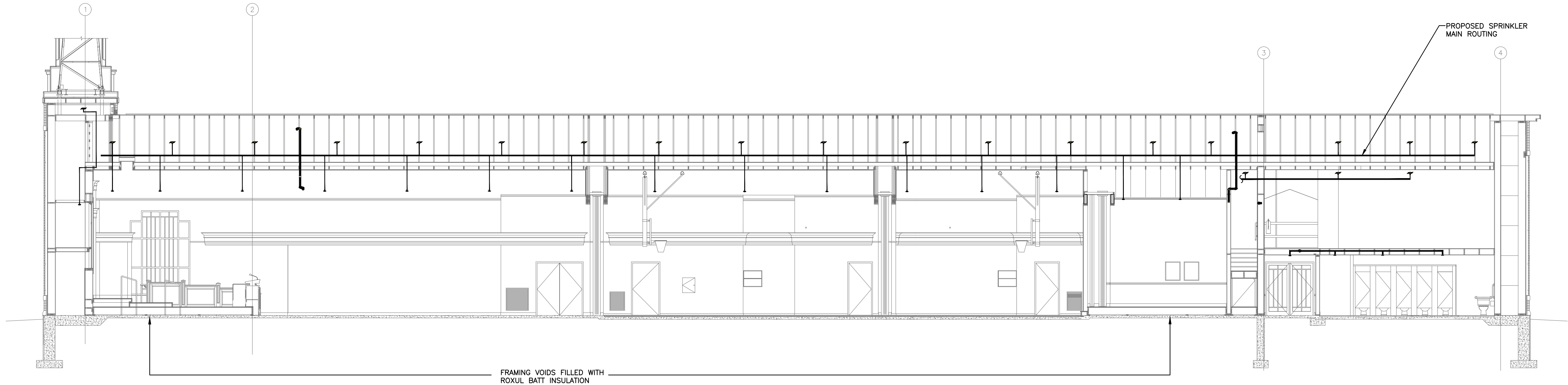
G25-MH-17-05

DATE

FEB 2020

SHEET NO.

F S102



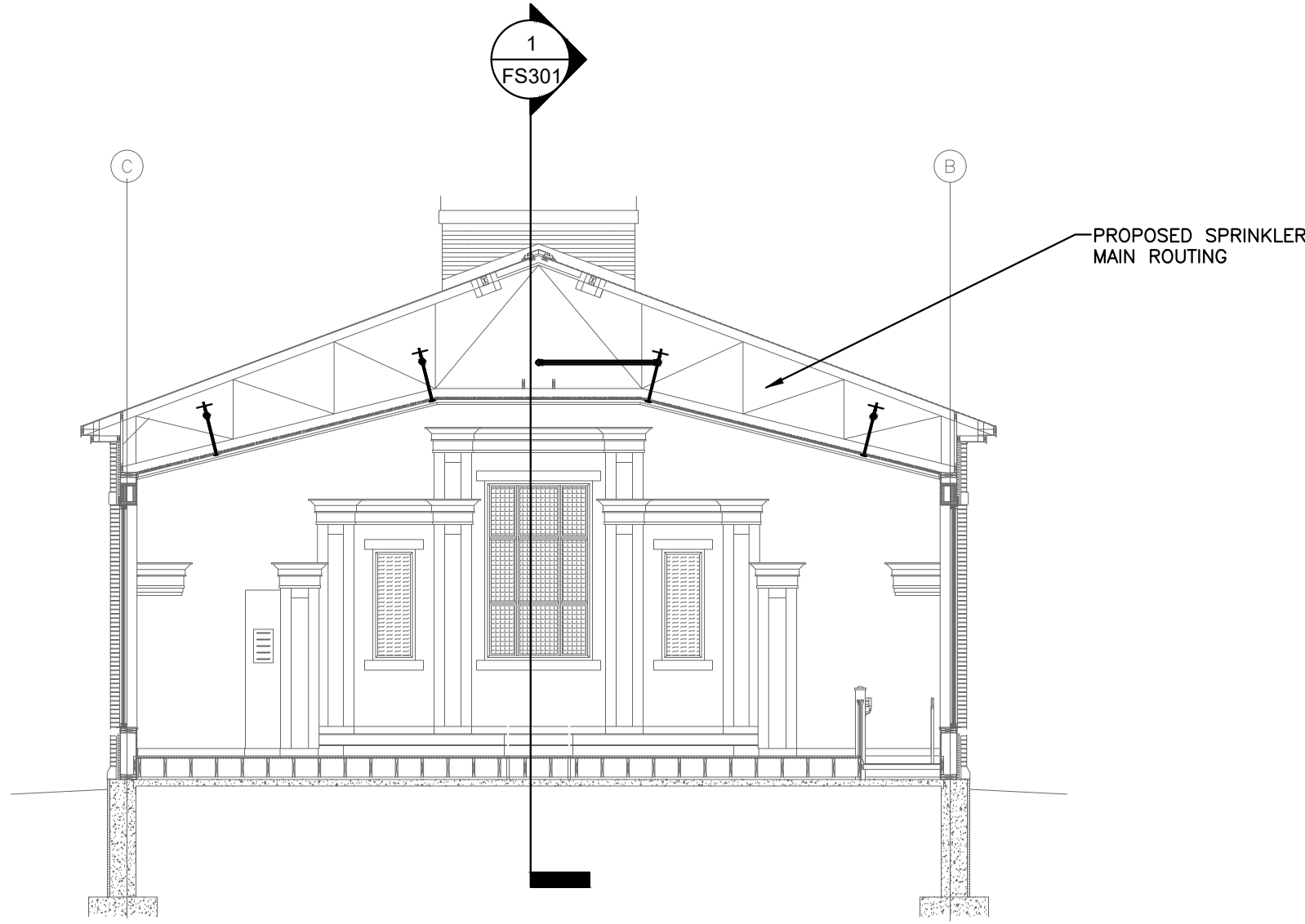
1 OVERALL BUILDING SECTION
FS301 SCALE: 1/8" = 1'-0"

NOTE: KEEP SPRINKLER HEADS IN ATTIC SPACE CLEAR OF ATTIC CATWALK ROUTE FOR CLEAR MAINTENANCE ACCESS. PROVIDE WIRE GUARDS ON ALL HEADS ALONG ATTIC CATWALK TRAVEL ROUTES AND EQUIPMENT PLATFORM.

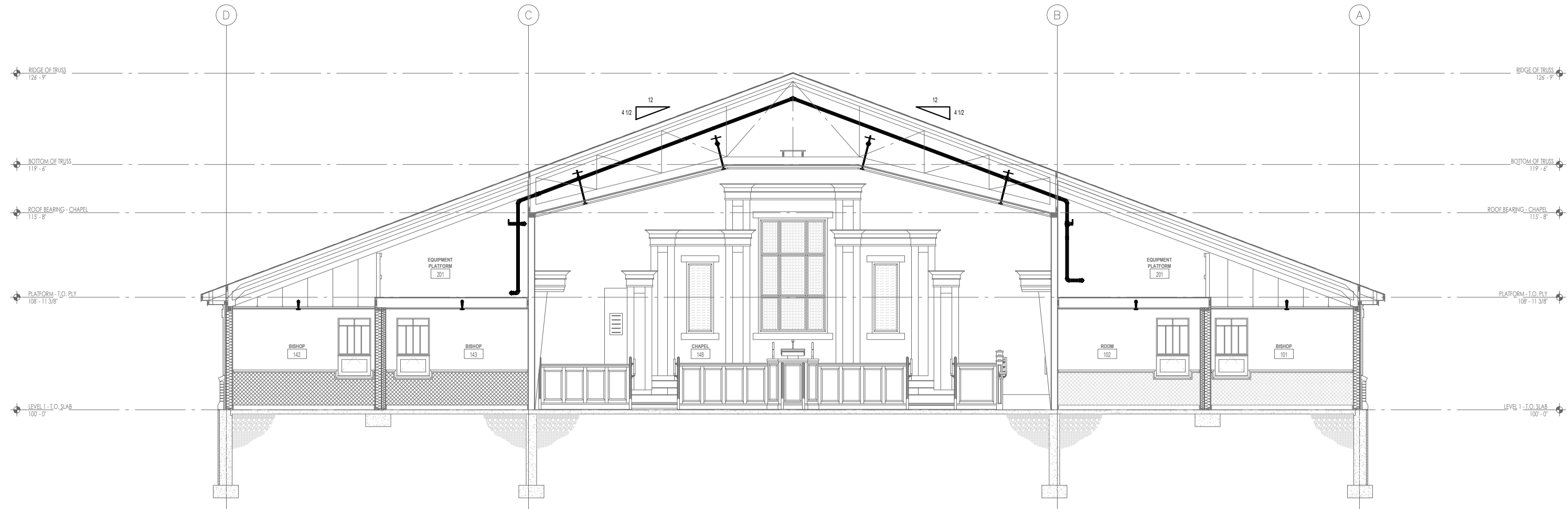
SPRINKLER HEAD SCHEDULE							
SPRINKLERS	K-FACTOR	ORIFICE	FINISH	TYPE	CANOPY	DEGREE	QUANTITY
	5.6	1/2"	WHITE	WET PENDENT	CONCEALED	155	
	5.6	1/2"	BRONZE	UPRIGHT	N/A	212	
	5.6	1/2"	WHITE	DRY PENDENT	CONCEALED	155	
	5.6	1/2"	BRONZE	ATTIC SIDEWALL	N/A	212	
	5.6	1/2"	WHITE	DRY SIDEWALL	RECESSED	155	
E				(E=EXTENDED COVERAGE)			
	5.6	1/2"	WHITE	WET SIDEWALL	RECESSED	155	
	5.6	1/2"	BRONZE	WET SIDEWALL	N/A	212	
	5.6	1/2"	BRONZE	DRY SIDEWALL	N/A	212	
	5.6	1/2"	BRONZE	ATTIC AP UPRIGHT		212	

WATER FLOW TEST	
TEST DATE: 2018/05/29	TEST TIME: 10:30 AM
STATIC: 96 PSI	RESIDUAL: 90 PSI
FLOW: 3000 U.S. G.P.M.	LOCATION: HYDRANT 1
TEST BY: CITY OF CALGARY	

NOTE: CONTRACTOR TO VERIFY CURRENT FLOW TEST PRIOR TO DESIGN.



2 CHAPEL SECTION 1
FS301 SCALE: 1/8" = 1'-0"



3 CHAPEL SECTION 2
FS301 SCALE: 1/8" = 1'-0"

MARK	DATE	REVISION
1	JAN 8 2020	ISSUED FOR COORDINATION
2	FEB 11 2020	ISSUED FOR REVIEW
3	FEB 28 2020	ISSUED FOR COORDINATION
4	MAR 12 2020	ISSUED FOR COORDINATION
5	MAR 20 2020	ISSUED FOR BP/TENDER

ARCHITECT

GDG

Architectural Group

1919 10th Avenue S.W.
Calgary, Alberta,
T3C 0K3
(403) 229 3233

CONSULTANTS

STRUCTURAL

ROCKY MOUNTAIN ENGINEERING INC.
1919 10th Avenue S.W.
Calgary, Alberta T3C 0K3
(403) 274-0227

MECHANICAL

AME Group Consulting Mechanical Engineers
710 - 1122 4th Street S.W.
Calgary, Alberta T2R 1M1
(403) 252-2333

ELECTRICAL

Maskell Plenzik & Partners Engineering Inc.
206, 610-70th Avenue S.E.
Calgary, Alberta T2H 2J6
(403) 509-2005

NATIONAL ENERGY CODE

908 Engineering Incorporated
P.O. Box 20020
Red Deer, Alberta T4N 6X5
(403) 986-2939

AUDIO / VIDEO

SLR Consulting (Canada) Limited
1185, 10201 Southport Road S.W.
Calgary, Alberta T2W 4X9
(403) 266-2030

LANDSCAPE

IBI Group
3rd Floor - 227 11th Avenue S.W.
Calgary, Alberta T2R 1R9
(403) 270-5600

CIVIL

ELI Consulting Inc.
230 Edgebrook Circle N.W.
Calgary, Alberta T3A 5A2
(403) 607-0049

GDC NUMBER 16123

STAMP

STAMP

PROJECT FOR
THE CHURCH OF
JESUS CHRIST
OF LATTER-DAY SAINTS

PROJECT NAME
SETON
GRANGER 250

CALGARY ALBERTA
BOW RIVER STAKE

PROJECT ADDRESS
530 SETON PASSAGE S.E.
CALGARY, ALBERTA

SHEET TITLE
FIRE SPRINKLER
SECTIONS AND
ELEVATION

PROJECT DESIGNATION
500-7688-1901-0101

WO NUMBER
GML 1068

PROPERTY NUMBER
500-7688

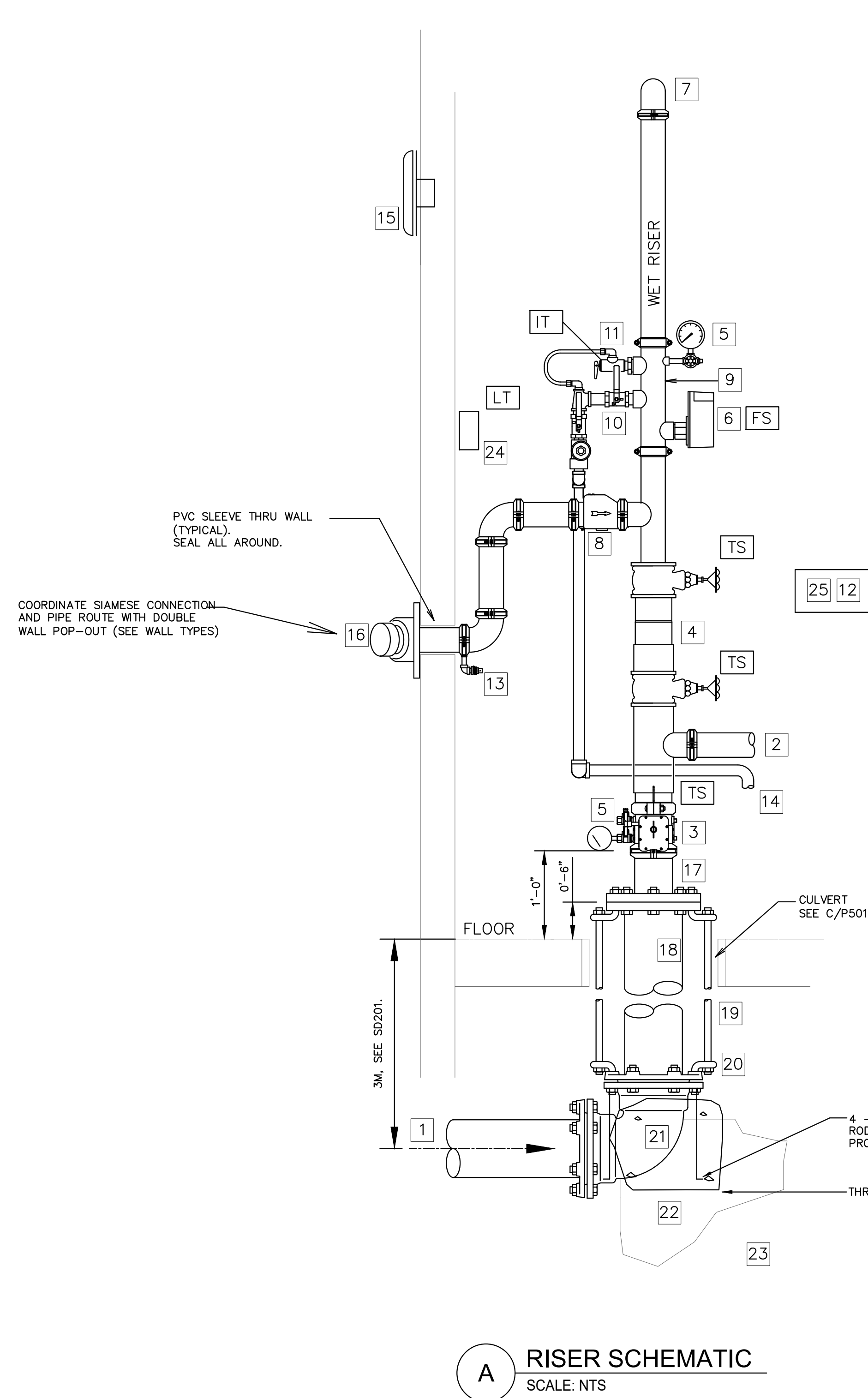
DEVELOPMENT NUMBER
G25-MH-17-05

DATE
FEB 2020

SHEET NO.
FS301

MARK	DATE	REVISION
1	JAN 8 2020	ISSUED FOR COORDINATION
2	FEB 11 2020	ISSUED FOR REVIEW
3	FEB 28 2020	ISSUED FOR COORDINATION
4	MAR 12 2020	ISSUED FOR COORDINATION
5	MAR 20 2020	ISSUED FOR BP/TENDER

ARCHITECT  GDG <i>Architectural Group</i> 1919 10th Avenue S.W. Calgary, Alberta, T3C 0K3 (403) 229 3233		
CONSULTANTS STRUCTURAL ROCKY MOUNTAIN ENGINEERING INC. 1919 10th Avenue S.W. Calgary, Alberta T3C 0K3 (403) 274-0227 MECHANICAL AME Group Consulting Mechanical Engineering 710 - 1122 4th Street S.W. Calgary, Alberta T2R 1M1 (403) 252-2333 ELECTRICAL Maskell Plenzik & Partners Engineering Inc. 206, 610-70th Avenue S.E. Calgary, Alberta T2M 2J6 (403) 509-2005 NATIONAL ENERGY CODE 908 Engineering Incorporated P.O. Box 20020 Red Deer, Alberta T4N 6X5 (403) 986-2939 AUDIO / VIDEO SLR Consulting (Canada) Limited 1185, 10201 Southport Road S.W. Calgary, Alberta T2W 4X9 (403) 266-2030 LANDSCAPE IBI Group 3rd Floor - 227 11th Avenue S.W. Calgary, Alberta T2R 1R9 (403) 270-5600 CIVIL EJI Consulting Inc. 230 Edgebrook Circle N.W. Calgary, Alberta T3A 5A2 (403) 607-0049		
GDG NUMBER 16123 STAMP		
STAMP		
PROJECT FOR THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS PROJECT NAME SETON GRANGER 250 CALGARY ALBERTA BOW RIVER STAKE PROJECT ADDRESS 530 SETON PASSAGE S.E. CALGARY, ALBERTA		
SHEET TITLE FIRE SPRINKLER DETAILS		
PROJECT DESIGNATION 500-7688-1901-0101		
WO NUMBER GML 1068 PROPERTY NUMBER 500-7688 DEVELOPMENT NUMBER G25-MH-17-05 DATE FEB 2020		SHEET NO. FS501



- ### WET RISER DETAIL NOTES:
1. 6" WATER SUPPLY FROM CITY WATER MAIN. USE DR18 BLUE BRUTE WHEN CROSSING UNDER BUILDING FOUNDATION (W/ DUCTILE IRON RISER).
 2. 2" DOMESTIC WATER. SEE C/P501.
 3. DOUBLE BUTTERFLY VALVE WITH INTEGRAL SUPERVISORY SWITCH
 4. DOUBLE CHECK BACKFLOW PREVENTER WITH RELATED TRIM AND GAUGES
 5. 3/4" DIAMETER WATER GAUGE WITH 1/2" TEST AND ISOLATION VALVE.
 6. VANE TYPE WATER FLOW SWITCH
 7. SUPPLY TO WET PIPE FIRE SPRINKLER SYSTEM
 8. SWING CHECK VALVE
 9. RISER MANIFOLD - INCLUDES PRESSURE GAUGE, FLOW SWITCH, PRESSURE RELIEF VALVE, AND TEST AND MAIN DRAIN DEVICE.
 10. INSPECTOR'S TEST & MAIN DRAIN DEVICE - PIPE TO OUTSIDE.
 11. PRESSURE RELIEF VALVE SHALL BE REQUIRED SET AT 175 PSI. - PIPED TO DISCHARGE OUTSIDE.
 12. LAMINATED SYSTEM MAP WITH SYSTEM START-UP AND SHUT-DOWN INSTRUCTIONS.
 13. 1/2" AUTOMATIC BALL DRIP VALVE
 14. PIPE DISCHARGE DRAIN TO FIRE ROOM 124 6" FLOOR DRAIN
 15. WEATHERPROOF HORN AND STROBE (OUTSIDE)
 16. OUT TO FIRE DEPARTMENT CONNECTION WITH GALVANIZED SCH 40 PIPING PROVIDE BALL DRIP WHEN TRAPPING PIPE. SIZE CONNECTION AS REQUIRED.
 17. GALVANIZED FLANGE AND SPOOL PIECE
 18. CLASS 53 DI. FLANGED SPIGOT W/ CATHODIC PROTECTION.
 19. 3/4" A.T.R. (STAINLESS STEEL)
 20. 3/4" BENT EYE BOLT
 21. MECHANICAL JOINT 90° ELL
 22. CONCRETE THRUST BLOCK WITH 8 SQ. FEET BEARING AREA. SEE C/P501.
 23. COMPACTED EARTH
 24. LOW TEMPERATURE SENSOR - MOUNTED ON WALL - THIS SWITCH IS PROVIDED UNDER DIVISION 28 OF THE SPECIFICATIONS.
 25. SPARE HEAD CABINET WITH SPARE SPRINKLER HEADS AND WRENCHES.

