

SCOPE OF WORK

1. MODIFY EXISTING SPRINKLER SYSTEM TO ACCOMMODATE NEW BATTERY ROOM ADDITIONS.

A. A NEW SEPARATE ROOM IS TO BE CREATED (BY OTHERS) FOR ROOM 110D AND SPRINKLER COVERAGE IS TO BE PROVIDED IN NEW 2 HR RATED CEILING. SPRINKLERS OUTSIDE OF ROOM TO BE RELOCATED PER PLAN TO ACCOMMODATE NEW WALLS.

B. BATTERY ROOM 173 IS TO BE EXPANDED (BY OTHERS) AND AN ADDITIONAL EXPOSED LINE OF SPRINKLER PROTECTION IS TO BE ADDED.

2. EXISTING SYSTEMS TO REMAIN OUTSIDE OF AREAS OF WORK.

3. ALL ALARM AND DETECTION IS TO BE BY OTHERS.

GENERAL NOTES

1. ALL MATERIAL AND EQUIPMENT IS TO BE NEW UL AND / OR FM APPROVED.

2. PIPING DIMENSIONS ARE CENTER TO CENTER EXCEPT RISERS AND DIMENSIONS SHOWN THUSLY (X-X) WHICH ARE END OF PIPE TO END OF PIPE.

3. EARTHQUAKE BRACING SHALL BE PROVIDED IN ACCORDANCE WITH NFPA NO. 13 2019 EDITION. SEE DETAILS ON CORRESPONDING SHEETS.

4. PIPE HANGERS AND METHODS OF HANGING IS TO BE IN ACCORDANCE WITH NFPA NO. 13, 2019 EDITION.

5. PIPING SHALL BE IN ACCORDANCE WITH NFPA NO. 13, 2019 EDITION. ALL GROOVED/WELDED PIPING IS TO BE SCHEDULE 10 BLACK PIPE. ALL THREADED PIPING IS TO BE SCHEDULE 40 BLACK PIPE.

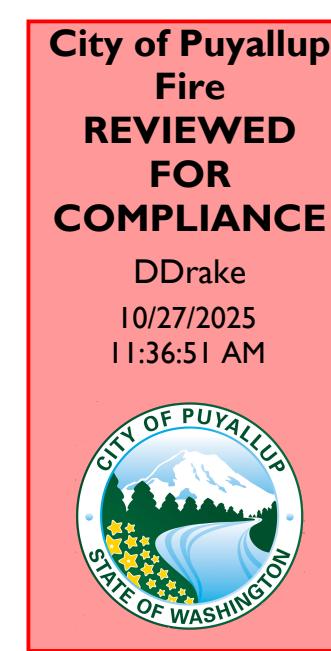
6. JOINING OF PIPE & FITTINGS, THREADED, WELDED, AND GROOVED, SHALL BE IN ACCORDANCE WITH NFPA NO. 13 2019 EDITION.

7. OWNER IS TO PROVIDE ADEQUATE HEAT IN AREAS PROTECTED BY A WET PIPE SPRINKLER SYSTEM TO PREVENT WATER IN PIPES FROM FREEZING.

8. PAINTING OF PIPE & EQUIPMENT (IF REQUIRED) IS TO BE BY OTHERS.

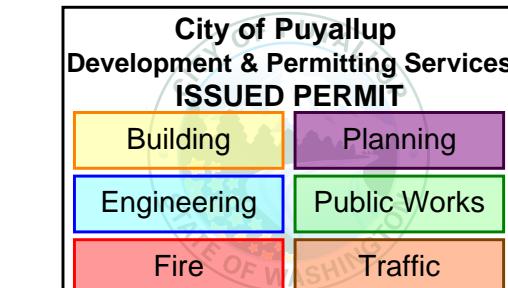
9. FURRING OF PIPE & EQUIPMENT (IF REQUIRED) IS TO BE BY OTHERS.

10. SPRINKLER SYSTEM SHALL OPERATE INSIDE BUILDING ALARM SYSTEM THROUGHOUT PREMISES; COORDINATED WITH FIRE ALARM CONTRACTOR.



THE APPROVED CONSTRUCTION PLANS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.

Approval of submitted plans is not an approval of omissions or oversights by this office or noncompliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable building codes and regulations of the local government.

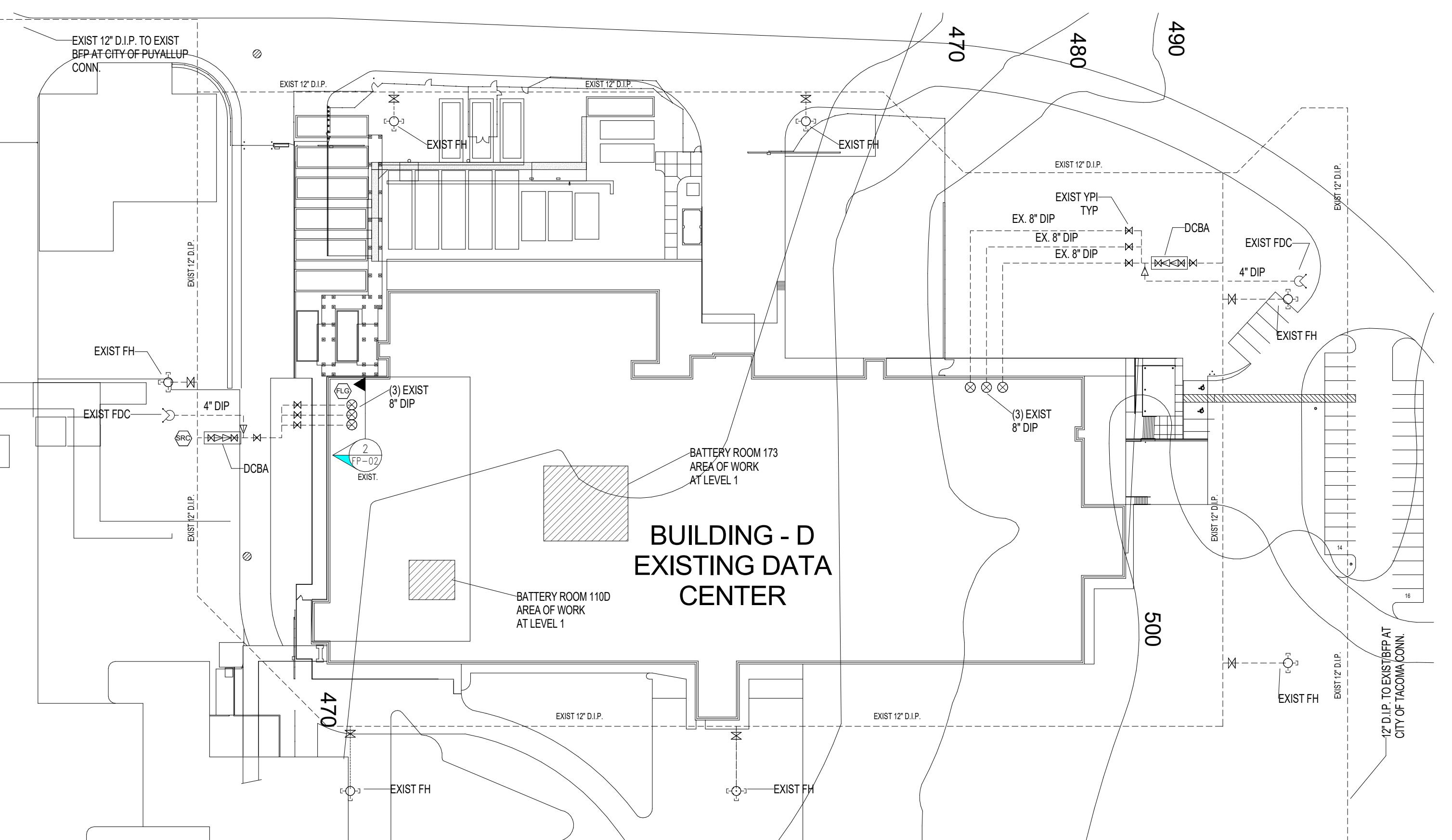


City of Puyallup Development & Permitting Services ISSUED PERMIT

Building Planning

Engineering Public Works

Fire Traffic



SITE PLAN - FOR REFERENCE ONLY
1" = 60'-0"

HYDRAULIC NOTES

SPRINKLER SYSTEM REMOTE AREAS HAVE BEEN HYDRAULICALLY CALCULATED TO PROVIDE THE FOLLOWING:

DESIGN CRITERIA PER NFPA 13 (2019), NFPA 855 §4.11.2.1, & WASHINGTON STATE FIRE CODE §1207.5.5

DRY SYSTEM EXTRA HAZARD GROUP 1: BATTERY ROOMS - 30 GPM / 3250 SQ. FT. OR ENTIRE AREA WHICHEVER IS SMALLER

BATTERY SUMMARY FOR BATTERY ROOM 110C

VALVE REGULATED LEAD ACID (VRLA)

BATTERY CAPACITIES

BATTERY ROOM NO. 110C

BATTERY SYSTEM	CAPACITY (KWH)
BATTERY CAPACITY PER CABINET	61.5
BATTERY STRING A-UPS-A	309.6
BATTERY STRING B-UPS-E	309.6
BATTERY STRING C-UPS-E	309.6
TOTAL BATTERY CAPACITY IN ROOM (KWH)	928.8
EACH BATTERY ROOM SEPARATED FROM OTHER OCCUPANCIES WITH 2-HOUR FIRE RATED ASSEMBLIES.	
BATTERY CAPACITY CALCULATION	
BATTERY CELL VOLTAGE (V)	12
NOMINAL CAPACITY (AH)	129
TOTAL CAPACITY (VAH)	1548
NOMINAL CAPACITY (KWH)	1,548
NUMBER OF BATTERIES PER CABINET	40
TOTAL CAPACITY PER BATTERY CABINET (KWH)	61.52
NUMBER OF BATTERY CABINETS PER STRING	5
TOTAL CAPACITY PER STRING	309.6
TOTAL BATTERY CAPACITY IN ROOM: 3,192 KWH	

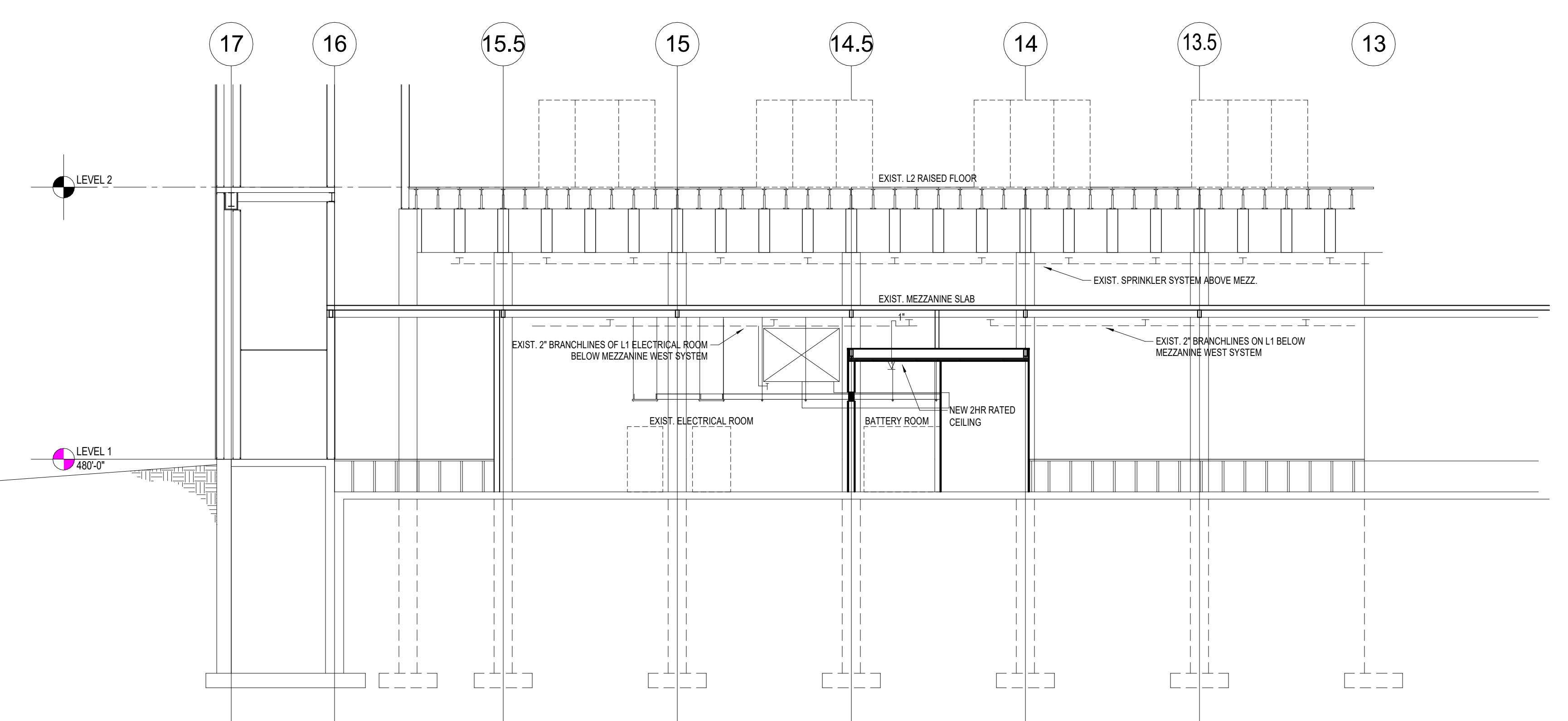
BATTERY SUMMARY FOR BATTERY ROOM 173

PROPOSED BATTERY TYPE - NICKEL - ZINC

BATTERY CAPACITY

BATTERY ROOM NO. 173

BATTERY SYSTEM	CAPACITY (KWH)
BATTERY CAPACITY PER CABINET	61.5
BATTERY STRING A-UPS-A	309.6
BATTERY STRING B-UPS-E	309.6
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TOTAL BATTERY CAPACITY IN ROOM: 3,192 KWH	



BATTERY ROOM 110D SECTION VIEW

1/8" = 1'-0"

WATER FLOW INFORMATION

STATIC PRESSURE: 74 PSI

RESIDUAL PRESSURE: 67 PSI

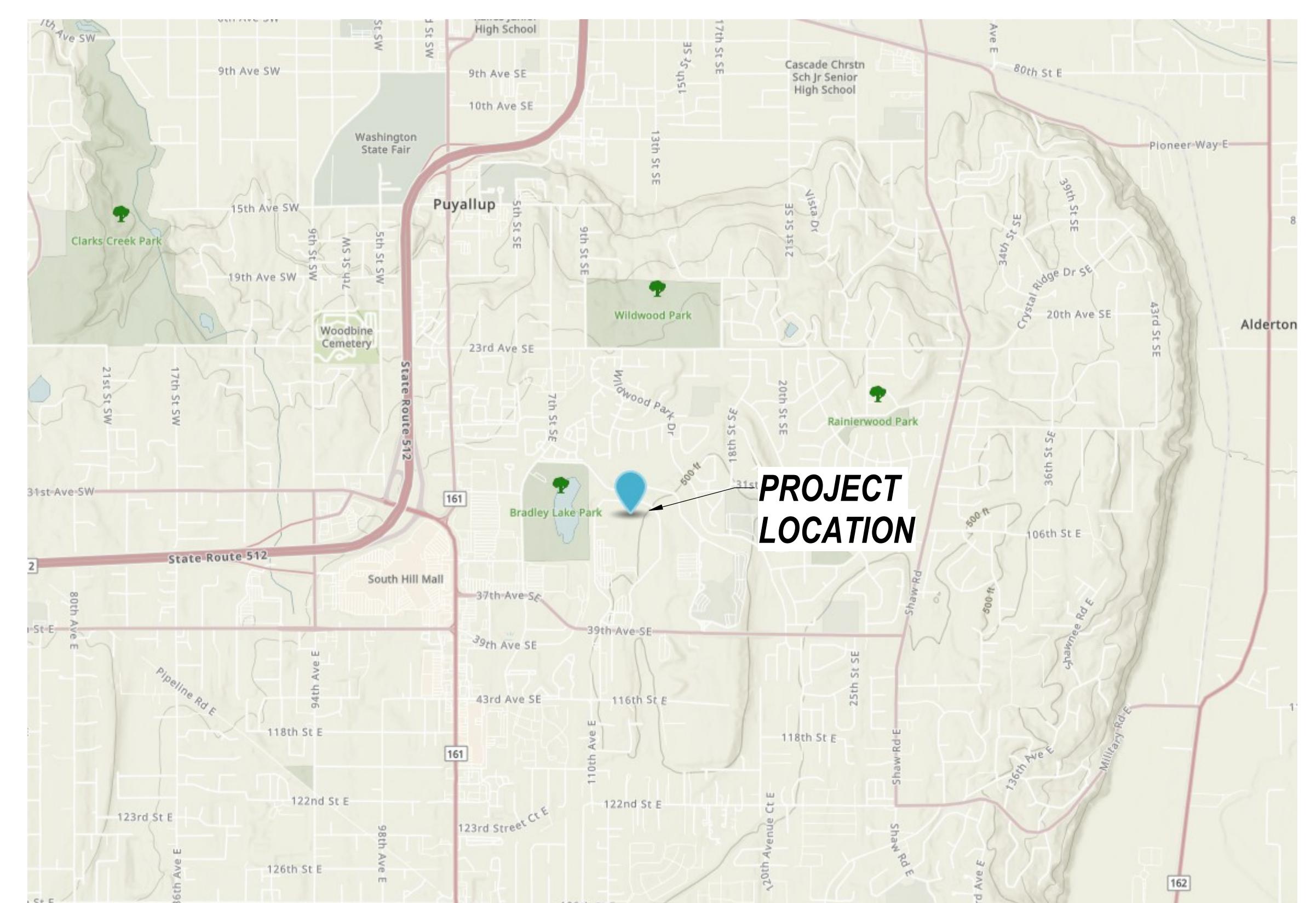
FLOW: 2742 GPM

ELEVATION: 498 FT.

LOCATION: EXISTING N.E. FIRE HYDRANT

DATA BY: MCKINSTRY COMPANY

DATE: 04/10/09



PROJECT LOCATION

HANGER LEGEND												
A	"U" HOOK											
B	COACH SCREW ROD											
D	CLAMP W/ STRAP											
E	EYELET											
F	FLUSH SHELL											
G	CEILING FLANGE											
H	SIDE BEAM BRACKET											
K	SHORT CLIP											
M	ALL THREAD ROD											
N	TOGGLE NUT											
P	POWER DRIVEN STUD											
R	EXPANSION BOLT											
S	SAMMY X-PRESS											
T												
V												
W												
X												
Y												
Z												
APPROVAL REQUIRED												
FITTING LEGEND												
P	PIPE-O-LET											
SN	GROOVED SHAPED NIPPLE											
TSN	THREADED SHAPED NIPPLE											
ADN	ADJUSTABLE DROP NIPPLE											
FLG	FLANGE											
RC	REDUCING COUPLING											
STRUCTURE TO CENTER LINE OF PIPE IN INCHES												
2 - WAY EARTHQUAKE BRACE	1/2"											
4 - WAY EARTHQUAKE BRACE	1/2"											
SPRINKLER LEGEND												
MANUFACTURER & MODEL												
PIPE SIZES AND TYPE												
PIPE-O-LET	165°											
SHAPED NIPPLE	212°											
ADJUSTABLE DROP NIPPLE	286°											
REDUCING COUPLING	350°											
FLANGE	500°											
SPRINKLER HEAD LEGEND												
SYM	MANUF.	MODEL	SIN	TYPE	HEAD	THREAD	K	FACTO	HEAD	FINISH	TEMP	QTY
TOTAL												
QUALITY CONTROL												
APPROVED FOR FABRICATION BY												
GENERAL NOTES												
1. ALL MATERIAL AND EQUIPMENT IS TO BE NEW AND UL LISTED OR FM APPROVED.												
2. PIPE DIMENSIONS ARE CENTER TO CENTER EXCEPT RISERS & DIMENSIONS SHOWN THUSLY (X-X) WHICH ARE END TO END.												
3. EARTHQUAKE BRACING SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13 2019 EDITION.												
4. PIPE HANGERS AND METHODS OF HANGING IS TO BE IN ACCORDANCE WITH NFPA 13 2019 EDITION.												
5. PIPING SHALL BE IN ACCORDANCE WITH NFPA 13 2019 EDITION.												
6. JOINING OF PIPE & FITTINGS, THREADED & WELDED, SHALL BE IN ACCORDANCE WITH NFPA 13 2019 EDITION.												
7. OWNER TO PROVIDE ADEQUATE HEAT IN AREAS PROTECTED BY A WET PIPE SPRINKLER SYSTEM TO PREVENT WATER IN PIPES FROM FREEZING.												
8. ALL TYPES OF ELECTRICAL DEVICES (IF REQUIRED) TO BE PROVIDED BY OTHERS.												
9. PAINTING OF PIPE & EQUIPMENT (IF REQUIRED) TO BE PROVIDED BY OTHERS.												
10. FURNISHING OF PIPE & EQUIPMENT (IF REQUIRED) TO BE PROVIDED BY OTHERS.												
DESIGN CRITERIA												
PIPE NOTES												
REVISION SCHEDULE												
REVISION	DATE	ISSUED BY	DESCRIPTION									
CONTRACT WITH:												
HOWARD S. WRIGHT												
415 1ST AVENUE NORTH SUITE 400 SEATTLE, WA 98109												
CONTACT: JORDAN JANGA (206) 366-3621												
PROJECT NAME:												
CENTERERS - BATTERY REPLACEMENT												
1023 30TH AVE SE, PUYALLUP, WA 98374												
PROJECT WEB:												
PATRIOTPF099CF												
WWW.PATRIOTFIRE.COM												
DEREK STRICKLAND@PATRIOTFIRE.COM												
TEL: (253) 926-6290												
FAX: (253) 922-6150												
DATER: 10/17/25												
DATE: 10/17/25												
JOB NO.: 18-0181B												
SITE CONTACT: RYAN CHEEVER												
1 OF 2												
FP-01												

HYDRAULIC NOTES

SPRINKLER SYSTEM REMOTE AREAS HAVE BEEN HYDRAULICALLY CALCULATED TO PROVIDE THE FOLLOWING:

DESIGN CRITERIA PER NFPA 13 (2019), NFPA 855 §4.11.2.1, & WASHINGTON STATE FIRE CODE §1207.5.5

DRY SYSTEM EXTRA HAZARD GROUP 1: BATTERY ROOMS - .30 GPM / 3250 SQ. FT. OR ENTIRE AREA WHICHEVER IS SMALLER

DRY SYSTEM NOTES

1. ALL GROOVED PIPE TO BE SCH. 10 BLACK.
2. ALL THREADED PIPE TO BE SCH. 40 BLACK.
3. ALL DRY SYSTEM BRANCHLINE PIPING TO SLOPE MIN $\frac{1}{2}$ " IN 10'-0".
4. ALL DRY SYSTEM MAIN PIPING TO SLOPE MIN $\frac{1}{2}$ " IN 10'-0".

MATERIAL GENERAL NOTES

1. ALL GROOVED FITTINGS $\frac{1}{2}$ " AND LARGER TO BE VICTAULIC FIRELOCK FITTINGS U.N.O.
2. ALL GROOVED COUPLINGS TO BE VICTAULIC FIRELOCK EZ RIGID COUPLINGS NO. 009 U.N.O.
3. ALL FLEXIBLE GROOVED COUPLINGS TO BE VICTAULIC INSTALLATION READY NO. 004 U.N.O.

HANGER LEGEND	
A	"1" HOOK
B	COACH SCREW ROD
D	BM. CLAMP W/ "STRAP
E	EYELET
F	FLUSH SHELL
G	CEILING FLANGE
H	SIDE BEAM BRACKET
K	SHORT CLIP
M	ALL THREAD ROD
N	TOGGLE NUT
P	POWDER DRIVEN STUD
R	EXPANSION BOLT
S	SAMMY X-PRESS
T	
U	
V	
W	
X	
Y	
Z	

APPROVAL REQUIRED

TEMP. RATING (F)	165°	212°	266°	350°	500°
PIPE O-LET	1/2"	1"	1 1/2"	2"	2 1/2"
GROOVED SHAPED NIPPLE	1/2"	1"	1 1/2"	2"	2 1/2"
THREADED SHAPED NIPPLE	1/2"	1"	1 1/2"	2"	2 1/2"
ADJ. ADJUSTABLE DROP NIPPLE	1/2"	1"	1 1/2"	2"	2 1/2"
FLG. FLANGE	1/2"	1"	1 1/2"	2"	2 1/2"
RC. REDUCING COUPLING	1/2"	1"	1 1/2"	2"	2 1/2"

FITTING LEGEND

STRUCTURE TO CENTER LINE OF PIPE IN INCHES	PIPE O-LET	SPRAY
2 - WAY EARTHQUAKE BRACE	1/2"	1"
4 - WAY EARTHQUAKE BRACE	1 1/2"	2"
STRUCTURE TO CENTER LINE OF PIPE IN INCHES	PIPE O-LET	SPRAY
1/2"	1/2"	1/2"
1"	1"	1"
1 1/2"	1 1/2"	1 1/2"
2"	2"	2"
2 1/2"	2 1/2"	2 1/2"

SPRINKLER LEGEND	
RELEASABLE	NON-RELEASABLE

SPRINKLER HEAD LEGEND

SYN. MANUF.	MODL.	SIN.	TYPE	HEAD	SPR.	HEAD	SCUTCH	ITEM
RELEASABLE	F1-40	RA022	SR SSU	W2	%	8.0	BRNZ	NA
RELEASABLE	F1-40	RA022	SR SSP	W14	%	8.0	BRNZ	F-8.0 CHIN
RELEASABLE	F1-40	RA022	SR SSP-401 PC	W14	%	8.0	BRNZ	401 CHIN
RELEASABLE	KF06	RA1024	QR SSU	W2	%	5.6	BRNZ	NA

TOTAL 36

QUALITY CONTROL BY DATE APPROVED FOR DESIGNATION BY DATE

GENERAL NOTES

1. ALL MATERIAL TO BE NEW AND UL LISTED OR FM APPROVED.
2. PIPE DIMENSIONS ARE CENTER TO CENTER EXCEPT RISERS & DIMENSIONS SHOWN THUSLY (X-X) WHICH ARE END TO END.
3. EARTHQUAKE BRACE SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13, 2019 EDITION.
4. PIPE HANGERS AND NETTING OF HANGING TO BE IN ACCORDANCE WITH NFPA 13, 2019 EDITION.
5. PIPING SHALL BE IN ACCORDANCE WITH PA PAMPHLET NO. 13, 2019 EDITION.
6. JOINING OF PIPE AND FITTINGS, THREADED & BLEDDED, SHALL BE IN ACCORDANCE WITH NFPA 13, 2019 EDITION.
7. OWNER TO PROVIDE ADEQUATE HEAT IN AREAS PROTECTED BY A PIPE SPRINKLER SYSTEM TO PREVENT WATER IN PIPES FROM FREEZING.
8. ALL TYPES OF ELECTRICAL DEVICES (IF REQUIRED) TO BE PROVIDED BY OTHERS.
9. PAINTING OF PIPE & EQUIPMENT (IF REQUIRED) TO BE PROVIDED BY OTHERS.
10. FURNING OF PIPE & EQUIPMENT (IF REQUIRED) TO BE PROVIDED BY OTHERS.

DESIGN CRITERIA

1. BATTERY ROOMS TO BE EXTRA HAZARD GROUP 1 CLASSIFICATION.
2. PRE-ACTION SYSTEM BRANCHLINES TO BE SLOPED $\frac{1}{2}$ " IN 10 FT.
3. PRE-ACTION SYSTEM MAIN PIPING TO BE SLOPED $\frac{1}{2}$ " IN 10 FT.
4. DETECTION FOR DOUBLE-INTERLOCKED PRE-ACTION SYSTEM IS BY OTHERS.

PIPE NOTES

REVISION SCHEDULE

REVISION DATE ISSUED BY DESCRIPTION

CONTRACT WITH:

HOWARD S. WRIGHT

415 1ST AVENUE NORTH SUITE 400 SEATTLE, WA 98109

CONTACT: JORDAN JANGA, (206) 366-3621

PROJECT NAME:

CENTERIS - BATTERY REPLACEMENT

1023 30TH AVE SE, PUYALLUP, WA 98374

CONTRACT NUMBER:

PATRIFP099CF

WWW.PATRIFIRE.COM

DEREK STRICKLAND@PATRIFIRE.COM

TEL: (253) 926-2290

FAX: (253) 922-6150

DESIGNER DJS SHEET

10/17/25 18-0181B

SITE CONTACT RYAN CHEEVER

2 OF 2

FP-02

NO WORK THIS AREA

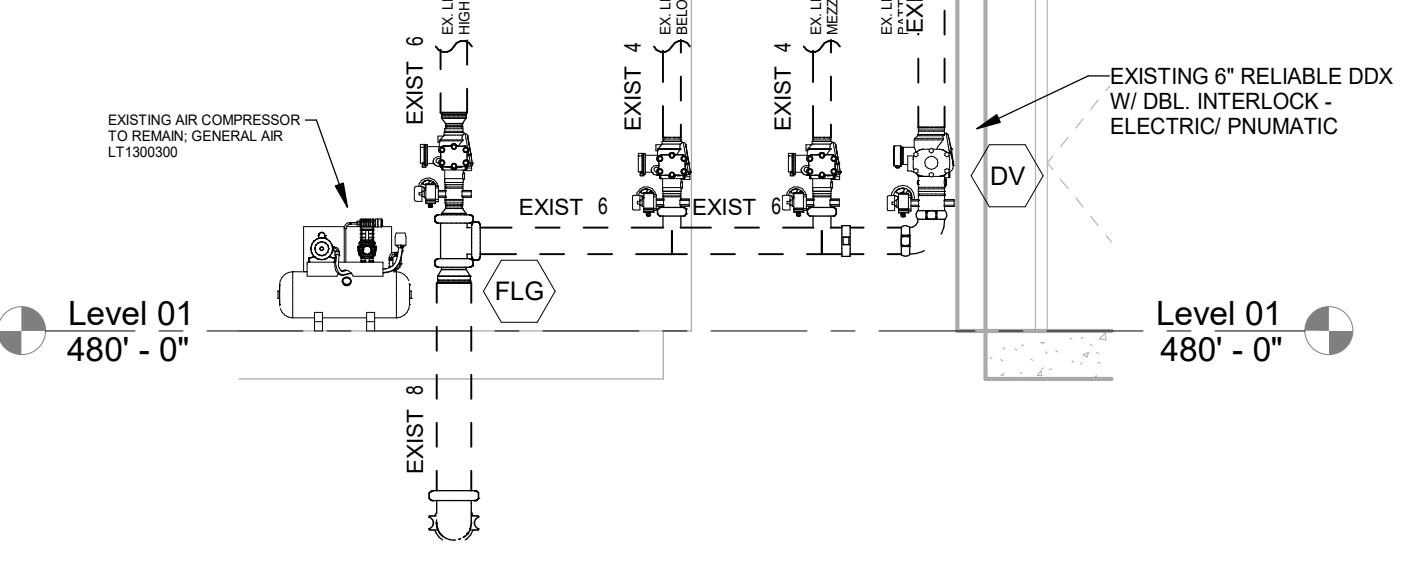
NO WORK THIS AREA

NO WORK THIS AREA

① Level 01
1/8" = 1'-0"



② RISER SECTION - FOR REFERENCE
1/4" = 1'-0"



③ HANGER TYPE 'D' DETAIL
1/2" = 1'-0"



④ HANGER TYPE 'S' DETAIL
3/4" = 1'-0"



⑤ LATERAL
1/2" = 1'-0"



⑥ LONGITUDINAL
1/2" = 1'-0"



⑦ SEISMIC BRACING
1/2" = 1'-0"

⑧ DV
1/2" = 1'-0"

⑨ EXIST 6
1/2" = 1'-0"

⑩ EXIST 6
1/2" = 1'-0"

⑪ EXIST 4
1/2" = 1'-0"

⑫ EXIST 4
1/2" = 1'-0"

⑬ EXIST 4
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⑲ EXIST 4
1/2" = 1'-0"

