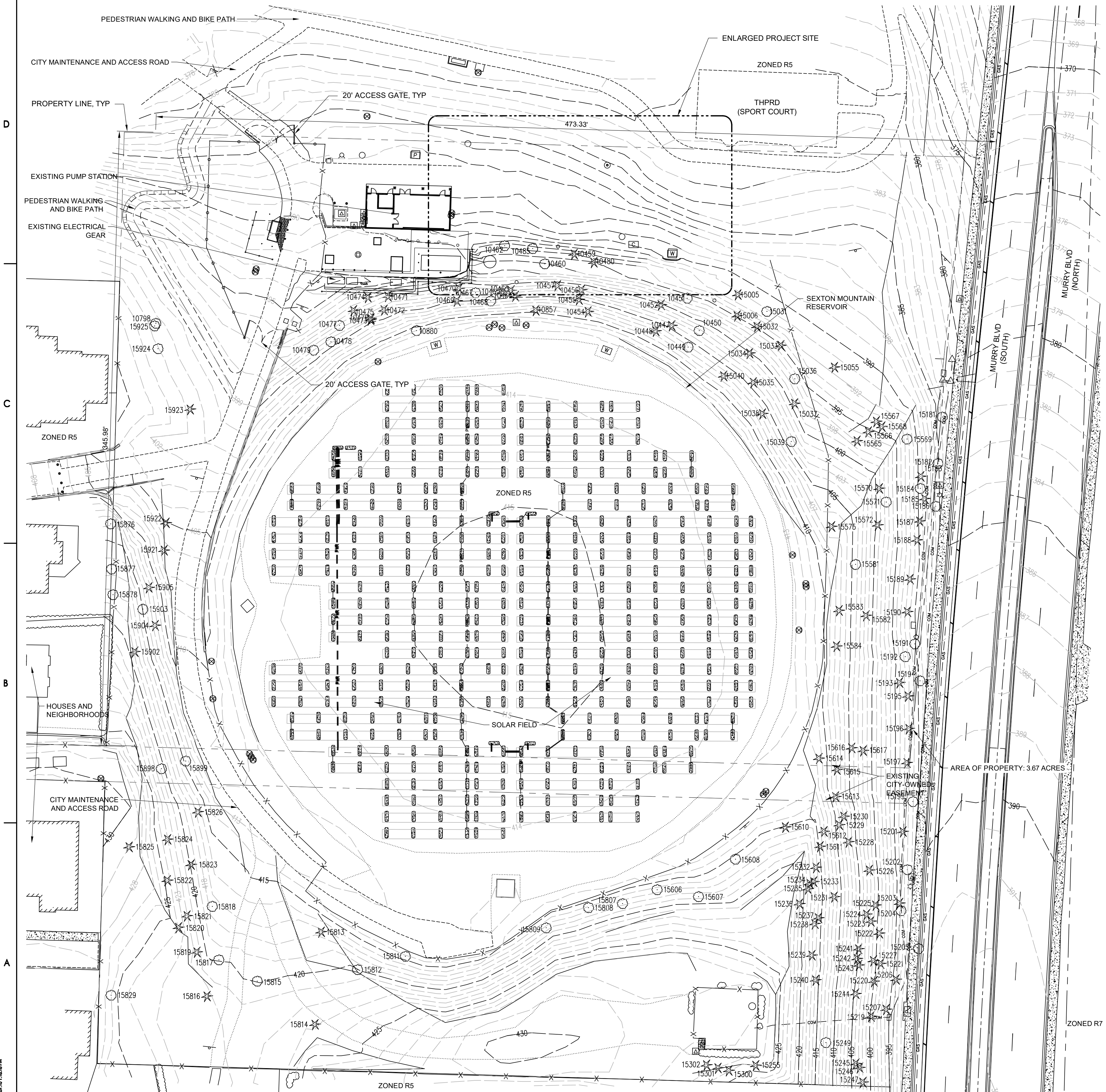

0 30 60

TREE TABLE		
TREE NUMBER	TYPE	DBH (IN.)
10447	CONIFEROUS	9
10448	CONIFEROUS	7
10449	DECIDUOUS	8
10450	DECIDUOUS	6
10451	DECIDUOUS	11
10452	CONIFEROUS	7
10454	CONIFEROUS	13
10455	CONIFEROUS	9
10456	CONIFEROUS	7
10457	CONIFEROUS	13
10458	CONIFEROUS	8
10459	CONIFEROUS	9
10460	DECIDUOUS	6
10461	DECIDUOUS	11
10462	DECIDUOUS	14
10463	CONIFEROUS	10
10464	CONIFEROUS	8
10465	CONIFEROUS	12
10467	DECIDUOUS	6
10468	DECIDUOUS	8
10469	CONIFEROUS	8
10470	CONIFEROUS	9
10471	CONIFEROUS	9
10472	CONIFEROUS	7
10473	CONIFEROUS	12
10474	CONIFEROUS	7
10475	CONIFEROUS	8
10476	CONIFEROUS	14
10477	DECIDUOUS	7
10478	DECIDUOUS	10
10479	DECIDUOUS	13
10798	DECIDUOUS	6,8,9
10857	CONIFEROUS	13
10880	DECIDUOUS	6,7
15005	CONIFEROUS	7
15006	CONIFEROUS	8
15031	DECIDUOUS	6
15032	CONIFEROUS	8
15033	CONIFEROUS	7
15034	CONIFEROUS	11
15035	CONIFEROUS	7
15036	DECIDUOUS	7
15037	CONIFEROUS	10
15038	CONIFEROUS	8
15039	DECIDUOUS	8
15040	CONIFEROUS	5,6
15055	CONIFEROUS	11
15181	DECIDUOUS	8
15182	DECIDUOUS	6
15183	CONIFEROUS	8
15184	DECIDUOUS	7
15185	CONIFEROUS	7
15186	DECIDUOUS	6
15187	CONIFEROUS	9
15188	CONIFEROUS	7
15189	CONIFEROUS	8
15190	CONIFEROUS	7
15191	DECIDUOUS	6
15192	DECIDUOUS	6,6,6
15193	CONIFEROUS	6
15194	DECIDUOUS	6
15195	CONIFEROUS	8
15196	CONIFEROUS	8
15197	CONIFEROUS	7
15199	DECIDUOUS	11
15201	CONIFEROUS	7
15202	DECIDUOUS	9

TREE TABLE		
TREE NUMBER	TYPE	DBH (IN.)
15203	CONIFEROUS	6
15204	DECIDUOUS	6,6,6
15205	DECIDUOUS	6,6,6
15206	CONIFEROUS	8
15207	CONIFEROUS	7
15219	CONIFEROUS	8
15220	CONIFEROUS	6
15221	CONIFEROUS	6
15222	CONIFEROUS	6
15223	CONIFEROUS	6
15224	CONIFEROUS	8
15225	CONIFEROUS	6
15226	CONIFEROUS	6
15227	CONIFEROUS	6
15228	CONIFEROUS	7
15229	CONIFEROUS	8
15230	CONIFEROUS	6
15231	CONIFEROUS	8
15232	CONIFEROUS	11
15233	CONIFEROUS	8
15234	CONIFEROUS	8
15235	CONIFEROUS	14
15236	CONIFEROUS	15
15237	CONIFEROUS	6
15238	CONIFEROUS	8
15239	CONIFEROUS	13
15240	CONIFEROUS	8
15241	CONIFEROUS	7
15242	CONIFEROUS	7
15243	CONIFEROUS	7
15244	CONIFEROUS	6
15245	CONIFEROUS	7
15246	CONIFEROUS	6
15247	CONIFEROUS	5,6
15248	CONIFEROUS	12
15249	DECIDUOUS	6,6,6
15255	CONIFEROUS	8
15300	CONIFEROUS	7
15301	CONIFEROUS	10
15302	CONIFEROUS	10
15565	CONIFEROUS	18
15566	CONIFEROUS	16
15567	CONIFEROUS	16
15568	CONIFEROUS	13
15569	DECIDUOUS	8
15570	CONIFEROUS	8
15571	DECIDUOUS	7
15572	CONIFEROUS	10
15575	CONIFEROUS	6
15581	DECIDUOUS	6
15582	CONIFEROUS	12
15583	CONIFEROUS	7
15584	CONIFEROUS	9
15606	DECIDUOUS	8
15607	DECIDUOUS	10
15608	DECIDUOUS	10
15610	CONIFEROUS	7
15611	CONIFEROUS	12
15612	CONIFEROUS	10
15613	CONIFEROUS	6
15614	CONIFEROUS	11
15615	CONIFEROUS	9
15616	CONIFEROUS	9
15617	CONIFEROUS	8
15807	DECIDUOUS	6,6,6
15808	DECIDUOUS	10
15809	DECIDUOUS	12

TREE TABLE		
TREE NUMBER	TYPE	DBH (IN.)
15811	DECIDUOUS	11
15812	DECIDUOUS	11
15813	CONIFEROUS	9
15814	CONIFEROUS	15
15815	DECIDUOUS	7
15816	CONIFEROUS	7
15817	DECIDUOUS	7
15818	DECIDUOUS	8
15819	CONIFEROUS	8
15820	CONIFEROUS	7
15821	CONIFEROUS	8
15822	CONIFEROUS	10
15823	CONIFEROUS	8
15824	CONIFEROUS	9
15825	CONIFEROUS	9
15826	CONIFEROUS	7
15829	DECIDUOUS	9
15876	DECIDUOUS	7,7,7
15877	DECIDUOUS	7,9,10
15878	DECIDUOUS	10
15898	DECIDUOUS	7
15899	DECIDUOUS	7
15902	CONIFEROUS	9
15903	DECIDUOUS	6
15904	CONIFEROUS	6
15905	CONIFEROUS	7
15921	CONIFEROUS	10
15922	CONIFEROUS	8
15923	CONIFEROUS	6
15924	DECIDUOUS	6
15925	DECIDUOUS	6,7,8

NOTES:

1. UTILITIES SHOWN ARE BASED ON UNDERGROUND UTILITY LOCATE MARKINGS AS PROVIDED BY OTHERS, PER UTILITY LOCATE TICKET NUMBER 20096844, 20096848 AND 20096907 IN ADDITION TO PRIVATE LOCATING SERVICES PROVIDED BY PACIFIC NORTHWEST LOCATING, LLC. LOCATING UNDERGROUND UTILITIES RELIES ON THE AID OF CLIENT PROVIDED AS-BUILTS. LISTED UNDER PROJECT NUMBER SD920048 "SEXTON MOUNTAIN 15 MG WATER RESERVOIR FOR THE CITY OF BEAVERTON". THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND LOCATES REPRESENT THE ONLY UTILITIES IN THE AREA. CONTRACTORS ARE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.
2. FIELD WORK WAS CONDUCTED APRIL 20 - 24, 2020.
3. HORIZONTAL DATUM: A LOCAL DATUM PLANE DERIVED FROM STATE PLANE OREGON NORTH 3601 NAD 83(2011)EPOCH: 2010.0000 BY MULTIPLYING BY A PROJECT MEAN GROUND COMBINED SCALE FACTOR OF 1.00010768 73 AT A CENTRAL PROJECT POINT WITH INTERNATIONAL FOOT STATE PLANE GRID COORDINATES N662159.5290 E7605001.7110 AND A MERIDIAN CONVERGENCE ANGLE OF -1°30'02". STATE PLANE COORDINATES WERE DERIVED FROM GPS OBSERVATIONS USING THE TRIMBLE VRS NOW NETWORK. DISTANCES SHOWN ARE INTERNATIONAL FOOT GROUND VALUES.
4. VERTICAL DATUM: ELEVATIONS ARE BASED ON WASHINGTON COUNTY BENCHMARK NO. 716, LOCATED ON SW BROCKMAN RD ABOUT 400 FEET EAST OF SW DAVIES RD, SOUTH CURB OF SW BROCKMAN RD EAST OF FIRESTATION, NORTH OF HITEON SCHOOL, 7 FEET EAST OF THE EAST SIDE OF THE WEST DRIVEWAY INTO THE SCHOOL, 1.6 FEET NORTH OF FIRE HYDRANT. ELEVATION = 271.01 FEET (NGVD 29).
5. THIS IS NOT A BOUNDARY SURVEY TO BE RECORDED WITH THE COUNTY. BOUNDARIES MAY BE PRELIMINARY AND SHOULD BE CONFIRMED WITH THE STAMPING SURVEYOR PRIOR TO RELYING ON FOR DETAILED DESIGN OR CONSTRUCTION.
6. BUILDING FOOTPRINTS ARE MEASURED TO SIDING UNLESS NOTED OTHERWISE. CONTACT SURVEYOR WITH QUESTIONS REGARDING BUILDING TIES.
7. CONTOUR INTERVAL IS 1 FOOT.
8. TREES WITH DIAMETER OF 6" AND GREATER ARE SHOWN. TREE DIAMETERS WERE MEASURED UTILIZING A DIAMETER TAPE AT BREAST HEIGHT. TREE INFORMATION IS SUBJECT TO CHANGE UPON ARBORIST INSPECTION.

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Revision

		By	Appd	YYYY.MM.DD
B	60% REVIEW	BB	BB	2021.09.08
A	DESIGN DEVELOPMENT	AO	BB	2021.05.31

Issued

REGISTERED PROFESSIONAL ENGINEER
65179
OREGON
11/14/2000
BRYAN D. BLACK
EXPIRATION DATE:

Client/Project
City of Beaverton

PHASE - II
SEXTON MOUNTAIN
PUMP STATION UPGRADE
Beaverton, Oregon

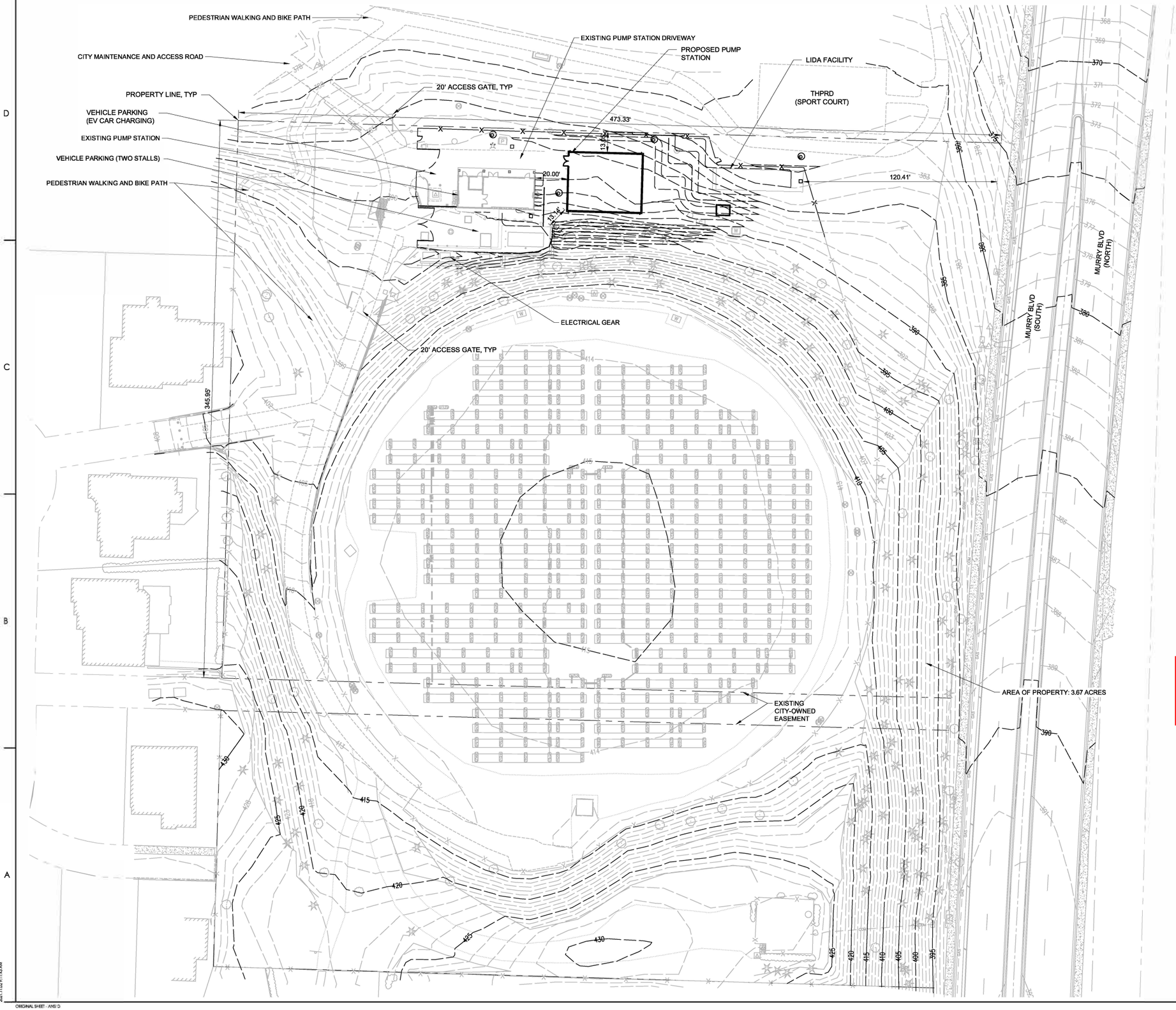
Project No.: 2002006149
File Name: EXISTING SITE PLAN FOR LAND USE
Scale: 1" = 30'

SK	RS		2021.09.08
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
EXISTING CONDITIONS PLAN

Revision:
Drawing No.

ORIGINAL SHEET - ANSI D



GENERAL SHEET NOTES

1. THIS SITE DOES NOT INCLUDE ANY FLOODPLAIN BOUNDARIES, NATURAL RESOURCE AREAS, SIGNIFICANT TREES, HISTORIC TREES, SENSITIVE AREAS, WETLANDS, RIPARIAN AREAS, ROCK OUTCROPPINGS, OR STREAMS.

Received
Planning Division
12/3/2021

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Issued	By	Appd	YYYY.MM.DD
C 90% REVIEW	BS	AO	2021.12.06
B 60% REVIEW	BS	BS	2021.09.28
A DESIGN DEVELOPMENT	BS	BS	2021.05.31

Revision

REGISTERED PROFESSIONAL ENGINEER
65179
OREGON
11/14/2000
BRYAN D. BLACK
EXPIRATION DATE:

Client/Project
City of Beaverton

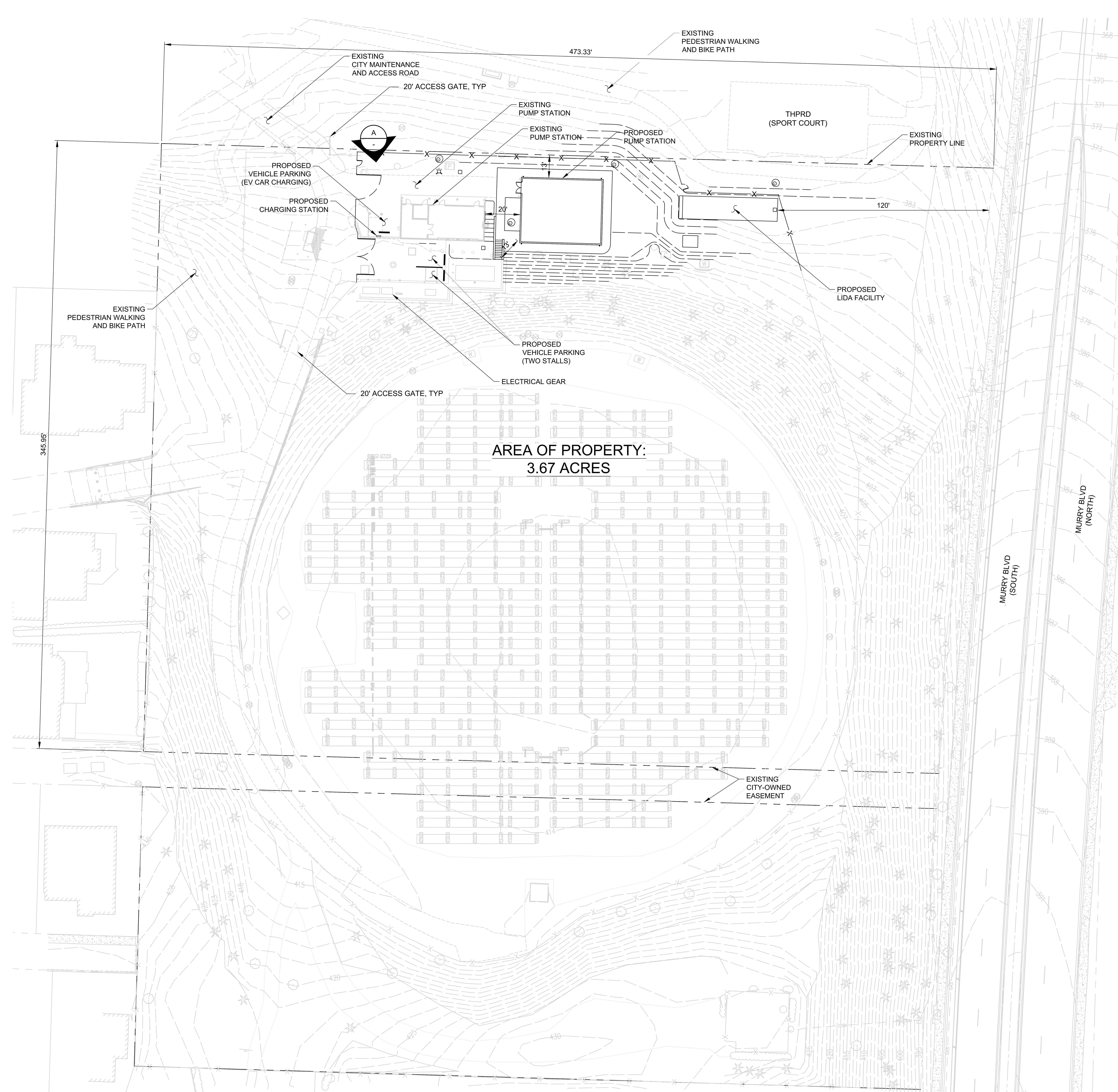
PHASE - 2
SEXTON MOUNTAIN
PUMP STATION UPGRADE
Beaverton, Oregon

Project No.: 2002006149
File Name: DIMENSIONED SITE PLAN FOR LAND USE
Scale: 1" = 30'

SK	RS		2021.12.06
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
DIMENSIONED SITE PLAN

Revision:
Drawing No.
G-101



GENERAL SHEET NOTES

1. THIS SITE DOES NOT INCLUDE ANY FLOODPLAIN BOUNDARIES, NATURAL RESOURCE AREAS, SIGNIFICANT TREES, HISTORIC TREES, SENSITIVE AREAS, WETLANDS, RIPARIAN AREAS, ROCK OUTCROPPINGS, OR STREAMS.

A PHOTO - VEHICLE PARKING

0 30 60

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Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
C 90% REVIEW		BB	2021.12.06
B 60% REVIEW	BB	BB	2021.09.08
A DESIGN DEVELOPMENT	AO	BB	2021.05.31

REGISTERED PROFESSIONAL ENGINEER
65179
OREGON
11/14/2000
BRYAN D. BLACK
EXPIRATION DATE:

Client/Project
City of Beaverton

PHASE - 2
SEXTON MOUNTAIN
PUMP STATION UPGRADE
Beaverton, Oregon

Project No.: 2002006149
File Name: DIMENSIONED SITE PLAN FOR LAND USE
Scale: 1" = 30'

Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
SK	RS		2021.12.06

Title
DIMENSIONED SITE PLAN

Revision:

Drawing No.
G-101

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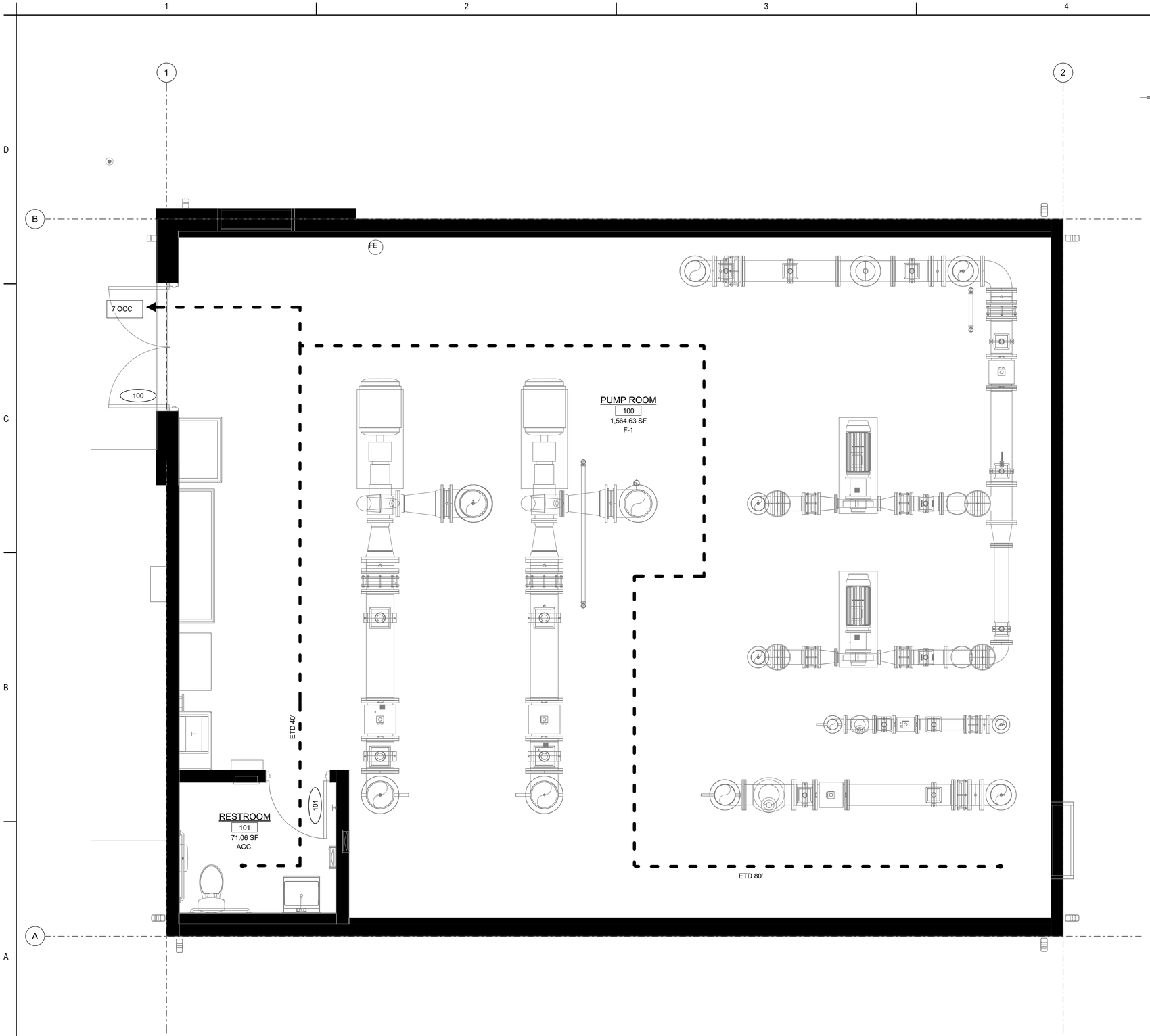

CODE PLAN

SCALE: 3/8" = 1'-0"

APPLICABLE CODES

- 2019 OREGON STRUCTURAL SPECIALTY CODE (OSSC)
- 2019 OREGON ZERO ENERGY READY COMMERCIAL CODE (OZERCC)
- 2014 OREGON FIRE CODE (OFC)
-OSHA REGULATIONS

PROJECT DATA

PROJECT TYPE: NEW PROCESS FACILITY. GROSS BUILDING SQ FT 1635.69. F-1 OCCUPANCY.

OCCUPANCY: F-1
CONSTRUCTION TYPE: V-B

AREA	OCC CLASS	SQ FT	SQ FT/OCC	OCC LOAD
PUMP ROOM	F-1	1564.63	300	6
RESTROOM	F-1 (ACCESSORY)	71.06	300	1
TOTALS		1635.69		7

PER TABLE 504.3 & 506.2
ALLOWABLE HEIGHT: 40'-0"
ALLOWABLE AREA: 8,500 SQ FT
PROPOSED
DESIGN HEIGHT: 20.21' 0"
DESIGN GROSS AREA*: 1635.69 SQ FT
DESIGN MEETS REQUIREMENT: YES

FIRE DETECTION & SUPPRESSION
FIRE ALARM SYSTEM: N/A
SMOKE DETECTION SYSTEM: N/A
SMOKE CONTROL SYSTEM: N/A
FIRE SPRINKLER SYSTEM: N/A
STANDPIPE SYSTEM: N/A

*GROSS SQ FT INCLUDES INCIDENTAL, CIRCULATION AND WALLS

OREGON ENERGY CODE REQUIREMENTS

EXTERIOR ASSEMBLY

2019 OZERCC, ANSI/ASHRAE/IES Standard 90.1 – 2016

ASSEMBLY	REQUIRED		PROVIDED
	CONDITIONED	SEMI-HEATED	
ROOF			
INSULATION ABOVE DECK	R-30 CI	R-15 CI	R-30 CI
ATTIC AND OTHER	R-49	R-30	R-15
WALLS (ABOVE GRADE)			
MASS (CMU/CONC)	R-11.4 CI	N/A	R-20 CI
STEEL FRAME	R-13 + R-3.8 CI	R-13 + R-3.8 CI	NA
WALLS (BELOW GRADE)			
MASS (CMU/CONC)	R-7.5 CI	N/A	N/A
FLOORS			
MASS (CMU/CONC)	R-14.6 CI	N/A	N/A
JOIST FRAMING	R-30 CI	N/A	N/A
STEEL FLOOR JOISTS	R-30 CI	N/A	N/A
SLAB ON GRADE			
UNHEATED	R-15 FOR 24"	N/A	R-15 FOR 24"
OPAQUE DOORS			
SWINGING	U 0.37	N/A	U 0.29
NONSWINGING	U 0.31	N/A	R-6

FENESTRATIONS*

FENESTRATION % OF ABOVE GRADE WALLS CANNOT EXCEED 40% - THIS DOES NOT INCLUDE OPAQUE DOORS OR SPANDREL GLASS

VERTICAL	REQUIRED	PROVIDED
NON METAL FRAME	U 0.31	N/A
METAL FRAME		
FIXED	U 0.38	U 0.28
SHGC	U 0.36	U 0.27
SKYLIGHTS		
U FACTOR	U 0.50	U 0.33
SHGC	U 0.40	U 0.31

* FENESTRATION REQUIREMENTS ONLY APPLICABLE TO CONDITIONED BUILDINGS AND SPACES

CODE PLAN SYMBOLS LEGEND

EGRESS PATH AND OCCUPANT LOAD

FE — FIRE EXTINGUISHER

ETD ## — EXIT TRAVEL DISTANCE

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12/3/2021

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Issued	By	Appd	YYYY.MM.DD
A	DESIGN DEVELOPMENT	BB	2021.05.31
B	60% REVIEW	BB	2021.09.08
Revision	By	Appd	YYYY.MM.DD

REGISTERED ARCHITECT
JEFFREY J. McGRAW
PORTLAND, OR
STATE OF OREGON

Client/Project
City of Beaverton

PHASE - II
SEXTON MOUNTAIN
PUMP STATION UPGRADE
Beaverton, Oregon

Project No.: 2002006149
File Name: N/A
Scale: AS SHOWN

CS	DW		2021.09.08
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
CODE PLAN

Revision:
Drawing No.
A-002

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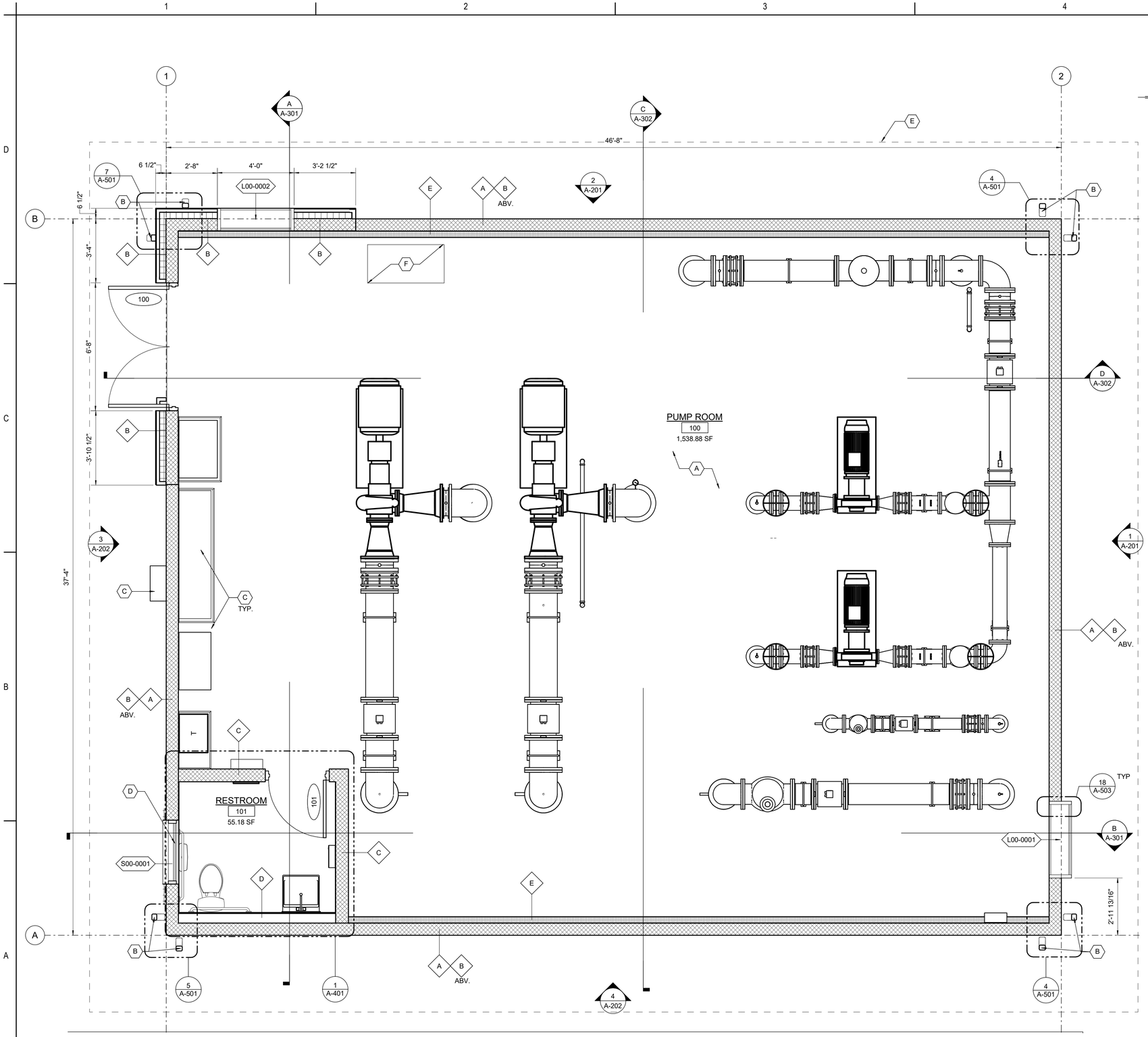
ORIGINAL SHEET - ANSI D



FLOOR PLAN

SCALE: 3/8" = 1'-0"

GENERAL SHEET NOTES

1. CONTRACTOR TO VERIFY ALL DIMENSIONS ON SITE.
2. DIMENSIONS ARE FROM FACE OF STUD, MASONRY, AND CONCRETE, UNO.
3. SEE ELEVATIONS FOR LOUVER SILL HEIGHTS.
4. SEE MECHANICAL FOR ADDITIONAL LOUVER INFORMATION.
5. REFER TO SPECIFICATION 09 00 00 FOR FINISH LEGEND AND SCHEDULE.
6. PROVIDE WALL BLOCKING FOR ALL WALL MOUNTED TELEVISIONS, COMPUTERS, CASEWORK, AND RESTROOM ACCESSORIES.

SHEET KEYNOTES

A. EXPOSED SEALED CONCRETE SLAB, REFER TO STRUCTURAL. REFER TO MECHANICAL FOR SLAB SLOPES, DRAIN LOCATIONS, AND PIPE/PUMP INFORMATION

B. 4" X 3" METAL DOWNSPOUT

C. ELECTRICAL EQUIPMENT, COORD. WITH ELECTRICAL DRAWINGS

D. WINDOW ABOVE. REFER TO EXTERIOR ELEVATIONS AND WINDOW SCHEDULE FOR SIZE AND LOCATION

E. ROOF EAVE ABOVE

F. FUTURE METAL CABINET

ANNOTATION SYMBOLS

S##-###X — STOREFRONT TAG

L##-###X — LOUVER TAG

* — ASSEMBLY TAG

X — KEYNOTE

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			By
			Appd
			YYYY.MM.DD
B	6/8 REVIEW	BB	BB
A	DESIGN DEVELOPMENT	BB	BB
	Issued	2021.05.31	2021.09.08

REGISTERED ARCHITECT
JEFFREY J. McGRAW
PORTLAND, OR
STATE OF OREGON

Client/Project
City of Beaverton

PHASE - II
SEXTON MOUNTAIN
PUMP STATION UPGRADE
Beaverton, Oregon

Project No.: 2002006149
File Name: N/A
Scale: As indicated

CS	DW		2021.09.08
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
FLOOR PLAN

Revision:
Drawing No.
A-101

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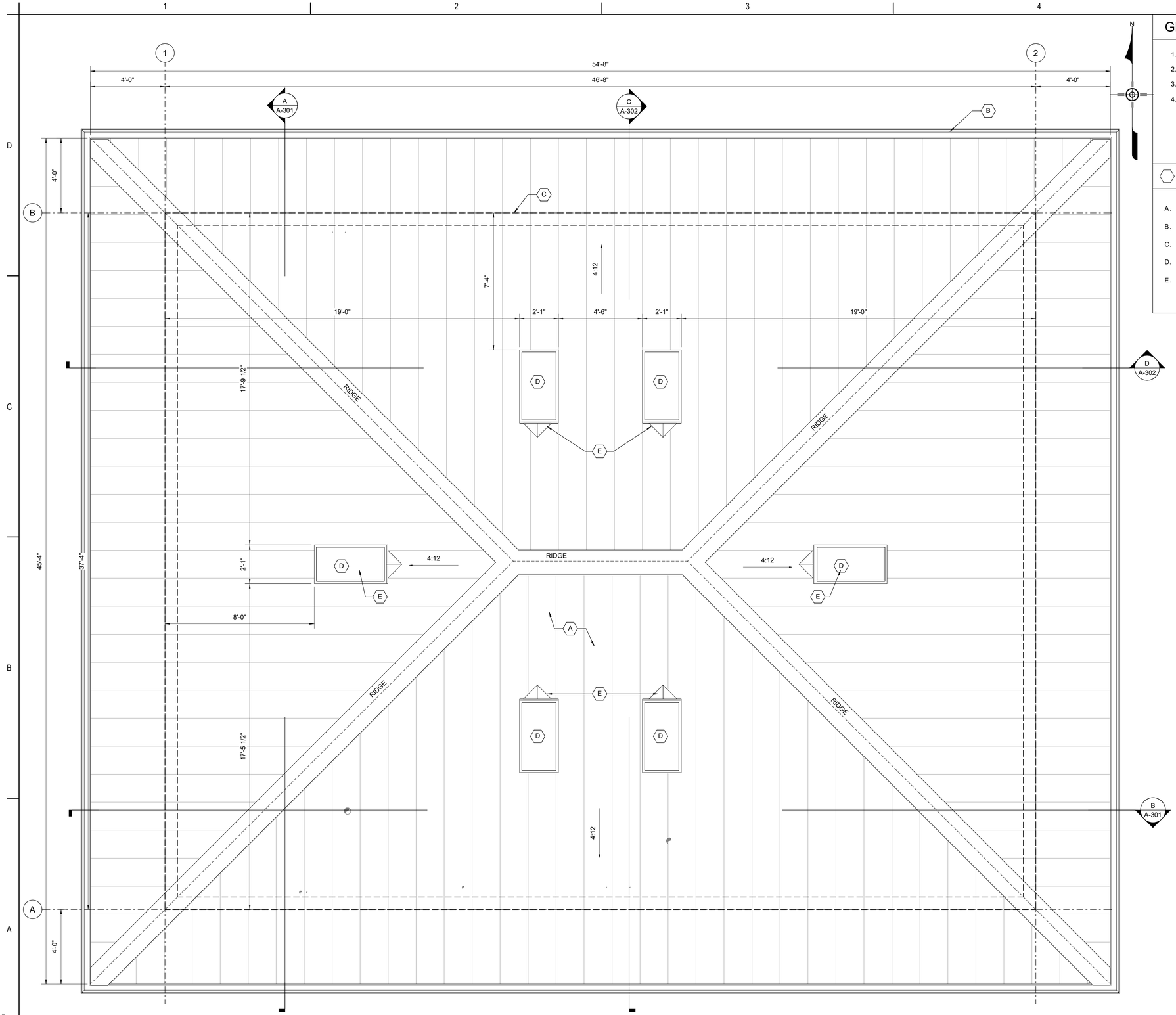

ROOF PLAN

SCALE: 3/8" = 1'-0"

GENERAL SHEET NOTES

1. CONTRACTOR TO VERIFY ALL DIMENSIONS ON SITE.
2. DIMENSIONS ARE FROM FACE OF STUD, MASONRY, AND CONCRETE, UNO.
3. SEE ELEVATIONS FOR LOUVER SILL HEIGHTS.
4. SEE MECHANICAL FOR ADDITIONAL LOUVER INFORMATION.

SHEET KEYNOTES

A. STANDING SEAM METAL ROOF

B. CONTINUOUS METAL GUTTER

C. CMU PORTION OF EXTERIOR WALL BELOW

D. 2' X 4' SKYLIGHT

E. CRICKET, MIN SLOPE 1/4" PER FT

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By	Appd	YYYY.MM.DD	Revision
BB	BB	2021.09.08	6/95 REVIEW
BB	BB	2021.05.31	DESIGN DEVELOPMENT
			Issued

REGISTERED ARCHITECT
JEFFREY J. McGRAW
PORTLAND, OR
STATE OF OREGON

Client/Project
City of Beaverton

PHASE - II
SEXTON MOUNTAIN
PUMP STATION UPGRADE
Beaverton, Oregon

Project No.: 20020061 49

File Name: N/A

Scale: 3/8" = 1'-0"

CS	DW		2021.09.08
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
ROOF PLAN

Revision:

Drawing No.
A-102

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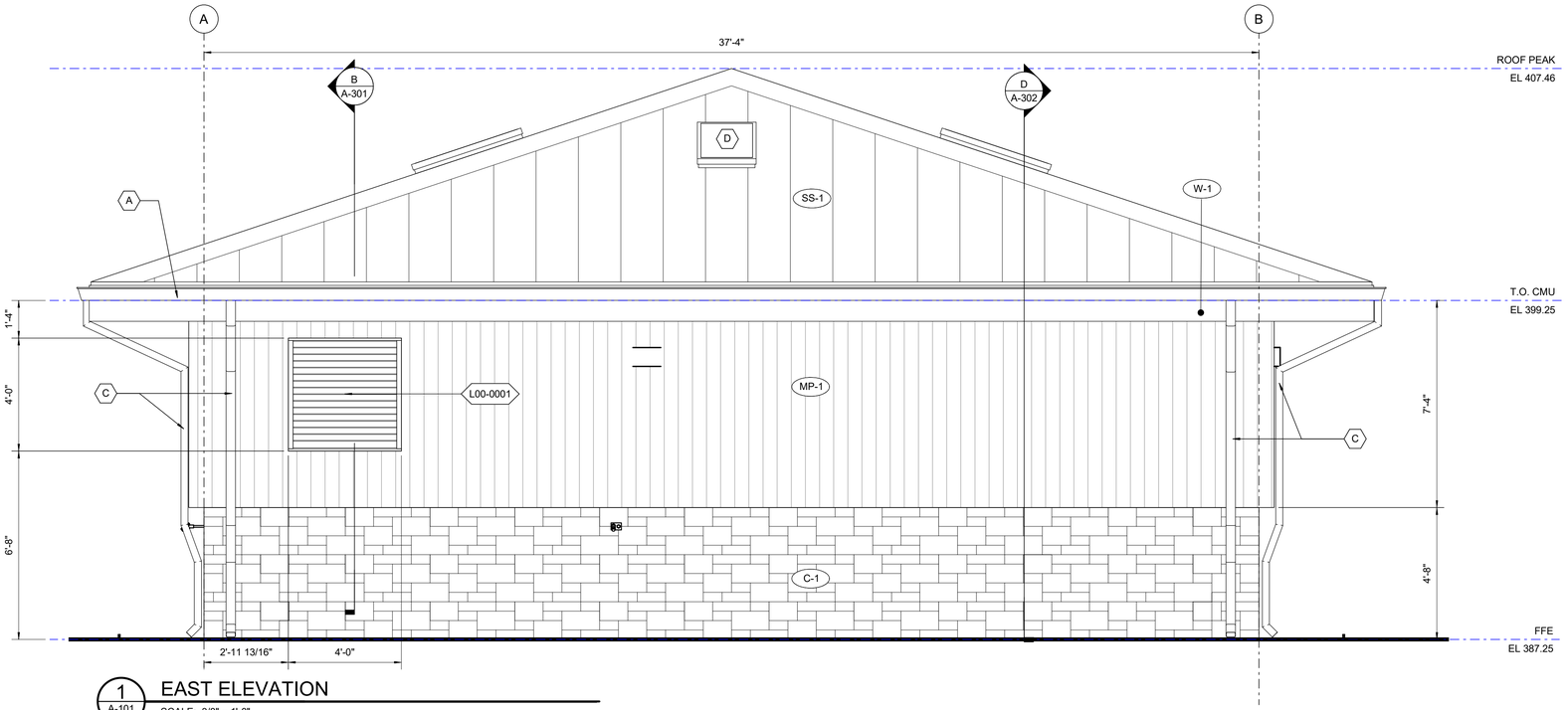
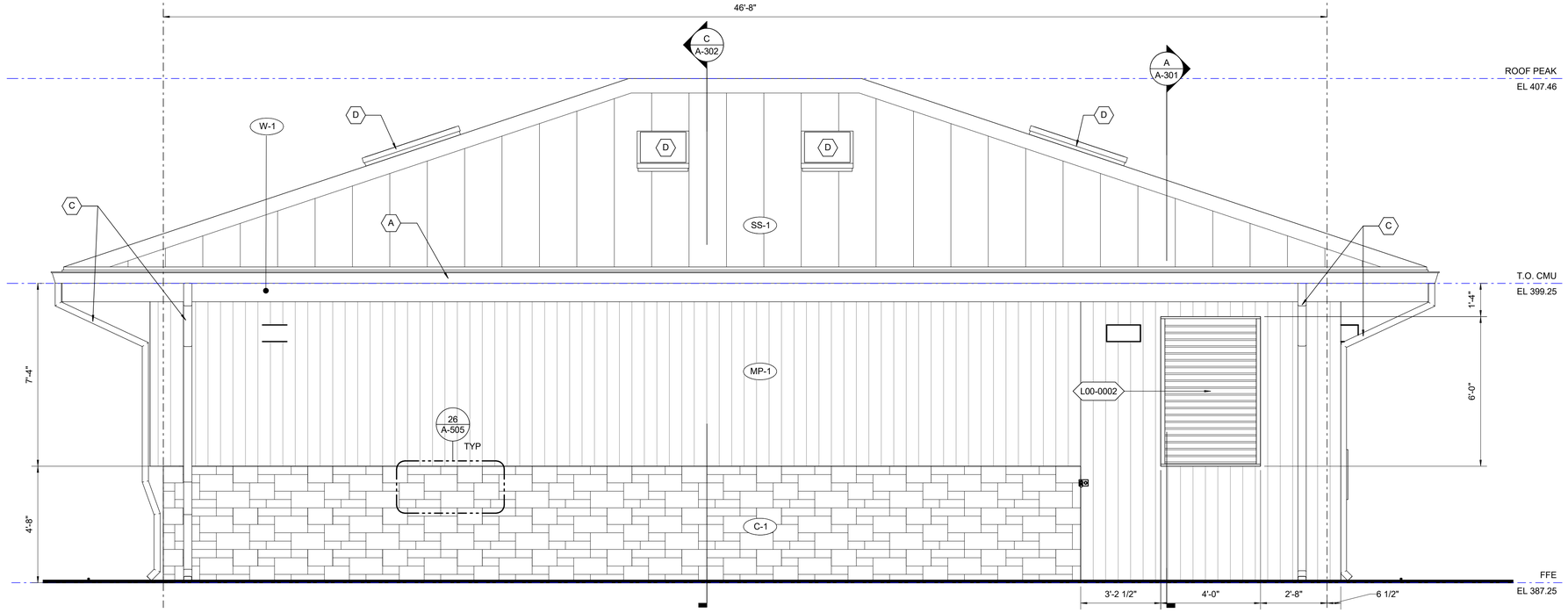


1 A-101 **EAST ELEVATION**

SCALE: 3/8" = 1'-0"



2 A-101 **NORTH ELEVATION**

SCALE: 3/8" = 1'-0"

GENERAL SHEET NOTES

1. SEE MECHANICAL FOR ADDITIONAL LOUVER INFORMATION.
2. SEE CIVIL FOR FINISH FLOOR ELEVATION.
3. DIMENSIONS ARE FROM FACE OF STUD, MASONRY, AND CONCRETE, UNO.
4. REFER TO THE ROOF PLAN FOR ROOF SLOPES.

SHEET KEYNOTES

A. CONTINUOUS METAL GUTTER

B. RESTROOM VENT, REFER TO MECHANICAL

C. METAL DOWNSPOUT, PAINT TO MATCH SIDING

D. 2' X 4' SKYLIGHT

COLOR & MATERIAL LEGEND

C-1	HONED CMU, ASHLAR PATTERN, NATURAL GREY
MP-1	METAL PANEL SIDING, DARK GREY
SS-1	STANDING SEAM ROOF, DARK GREY
C-2	16" CONCRETE CURB
W-1	FASCIA, MATCH ROOF
D-1	HOLLOW METAL DOOR AND WINDOW FRAME, PAINT TO MATCH CMU

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B	BS	BS	2021.09.08
A	BS	BS	2021.05.31

Revision

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A 60% REVIEW BS BS 2021.05.31
B 100% DESIGN DEVELOPMENT BS BS 2021.09.08

REGISTERED ARCHITECT
JEFFREY J. McGRAW
PORTLAND, OR
STATE OF OREGON

Client/Project
City of Beaverton

PHASE - II
SEXTON MOUNTAIN
PUMP STATION UPGRADE
Beaverton, Oregon

Project No.: 2002006149
File Name: N/A
Scale: As indicated

CS	DW		2021.09.08
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
EXTERIOR ELEVATIONS I

Revision:

Drawing No.
A-201

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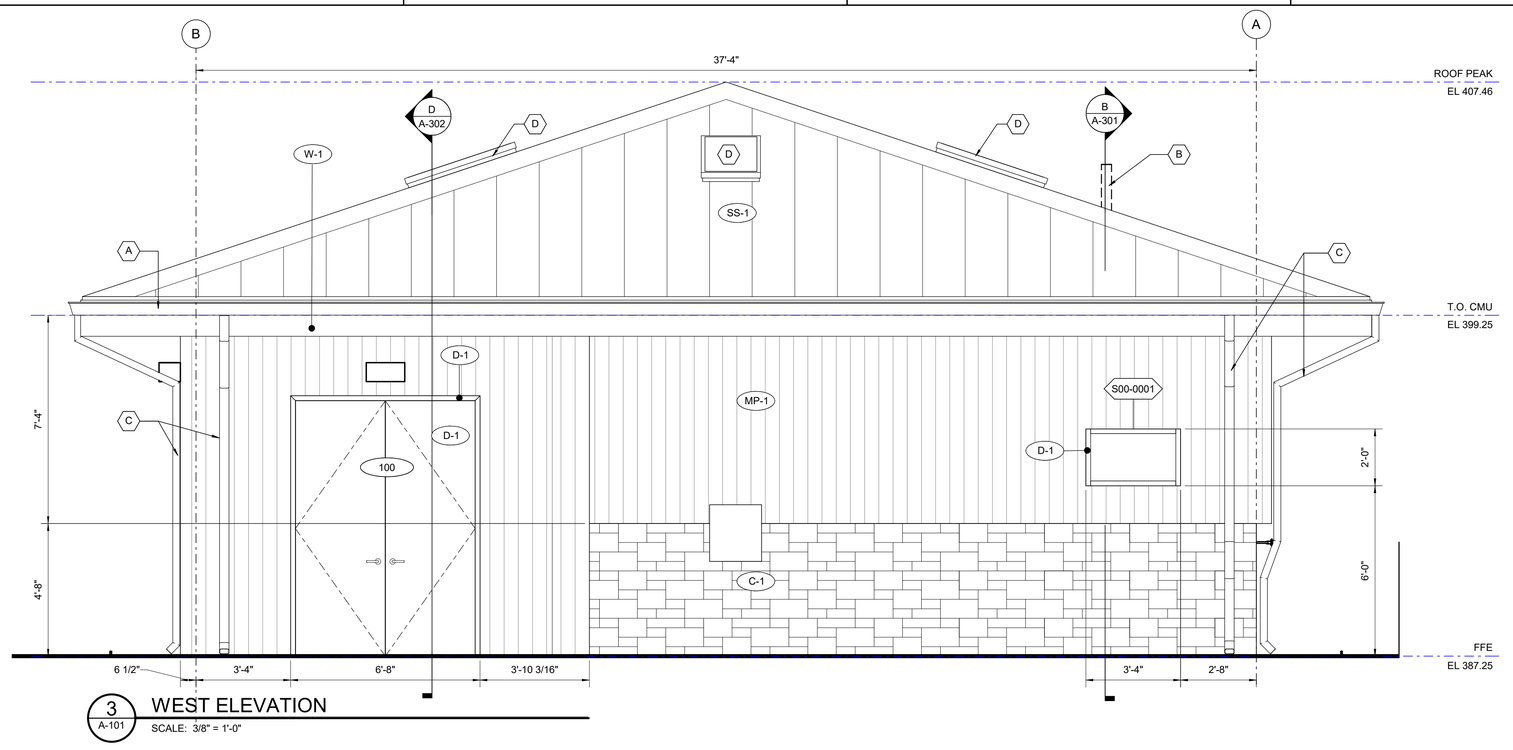
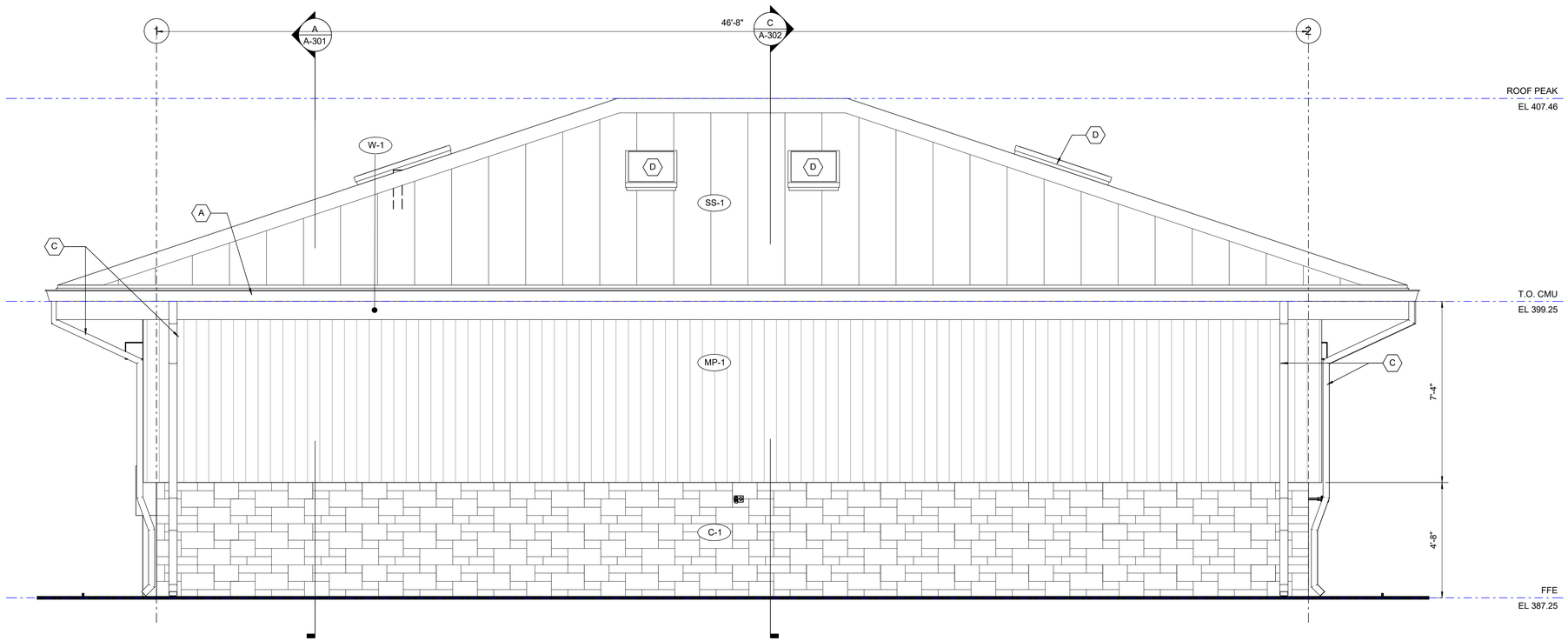
ORIGINAL SHEET - ANSI D



3 A-101 WEST ELEVATION

SCALE: 3/8" = 1'-0"



4 A-101 SOUTH ELEVATION

SCALE: 3/8" = 1'-0"

GENERAL SHEET NOTES

1. SEE MECHANICAL FOR ADDITIONAL LOUVER INFORMATION.
2. SEE CIVIL FOR FINISH FLOOR ELEVATION.
3. DIMENSIONS ARE FROM FACE OF STUD, MASONRY, AND CONCRETE, UNO.
4. REFER TO THE ROOF PLAN FOR ROOF SLOPES.

SHEET KEYNOTES

A. CONTINUOUS METAL GUTTER

B. RESTROOM VENT, REFER TO MECHANICAL

C. METAL DOWNSPOUT, PAINT TO MATCH SIDING

D. 2' X 4' SKYLIGHT

COLOR & MATERIAL LEGEND

C-1	HONED CMU, ASHLAR PATTERN, NATURAL GREY
MP-1	METAL PANEL SIDING, DARK GREY
SS-1	STANDING SEAM ROOF, DARK GREY
C-2	16" CONCRETE CURB
W-1	FASCIA, MATCH ROOF
D-1	HOLLOW METAL DOOR AND WINDOW FRAME, PAINT TO MATCH CMU

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Issued	By	Appd	YYYY.MM.DD
A	DESIGN DEVELOPMENT	BB	BB	2021.05.31
B	60% REVIEW	BB	BB	2021.09.08

Revision

REGISTERED ARCHITECT
JEFFREY J. McGRAW
PORTLAND, OR
STATE OF OREGON

Client/Project
City of Beaverton

PHASE - II
SEXTON MOUNTAIN
PUMP STATION UPGRADE
Beaverton, Oregon

Project No.: 20020061 49
File Name: N/A

Scale: As indicated

CS	DW		2021.09.08
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

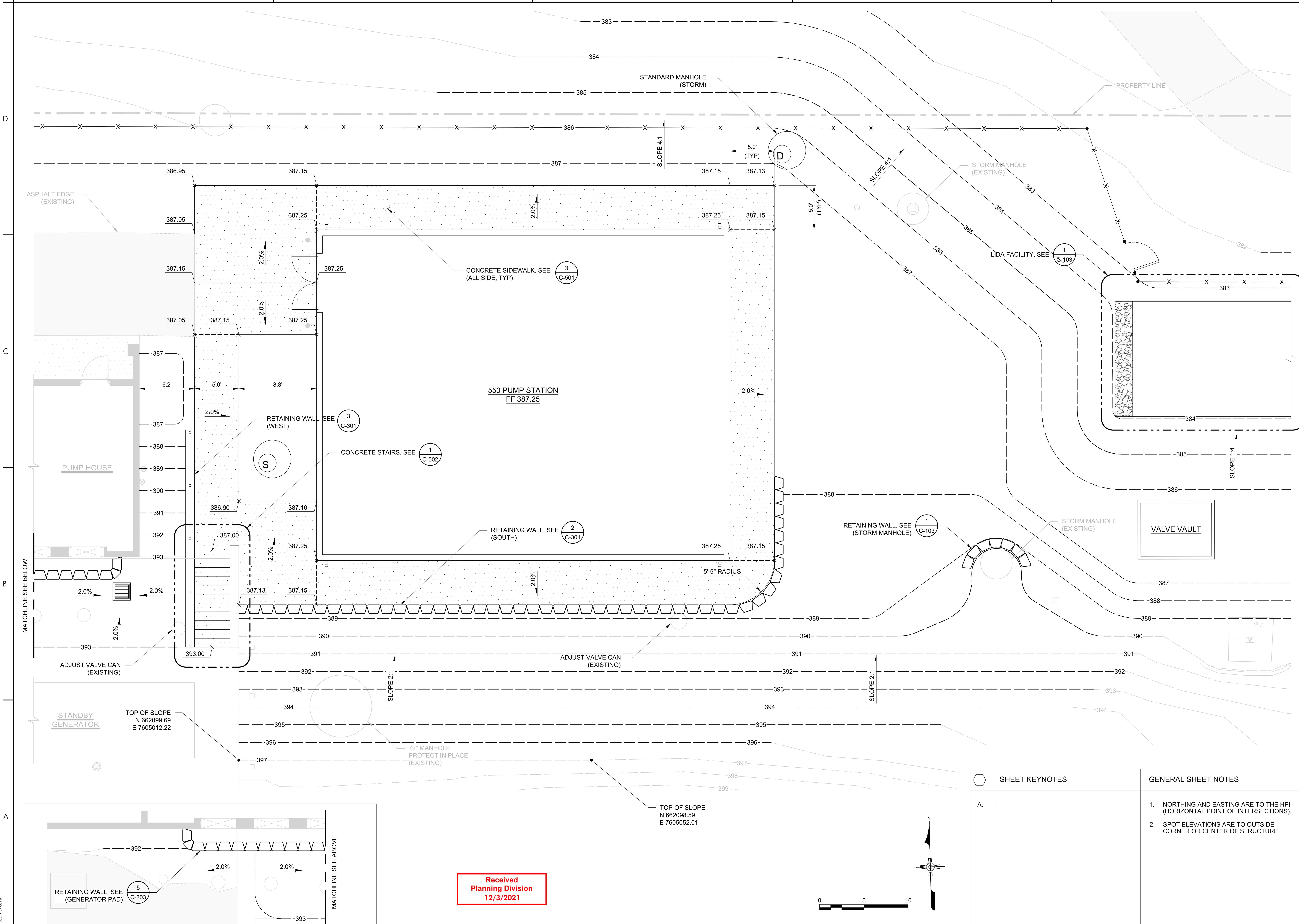
Title
EXTERIOR ELEVATIONS II

Revision:

Drawing No.
A-202

10/28/2021 4:20:53 PM

ORIGINAL SHEET - ANSI D



SHEET KEYNOTES

A. -

GENERAL SHEET NOTES

1. NORTHING AND EASTING ARE TO THE HPI (HORIZONTAL POINT OF INTERSECTIONS).
2. SPOT ELEVATIONS ARE TO OUTSIDE CORNER OR CENTER OF STRUCTURE.

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Issued	By	Appd	YYYY.MM.DD
C 90% REVIEW		BB	2021.12.06
B 60% REVIEW		BB	2021.09.08
A DESIGN DEVELOPMENT	AO	BB	2021.05.31

REGISTERED PROFESSIONAL ENGINEER
65179
OREGON
11/14/2000
BRYAN D. BLACK
EXPIRATION DATE:

Client/Project
City of Beaverton

PHASE - 2
SEXTON MOUNTAIN
PUMP STATION UPGRADE
Beaverton, Oregon

Project No.: 2002006149
File Name: 06149C-102
Scale: 1" = 5'

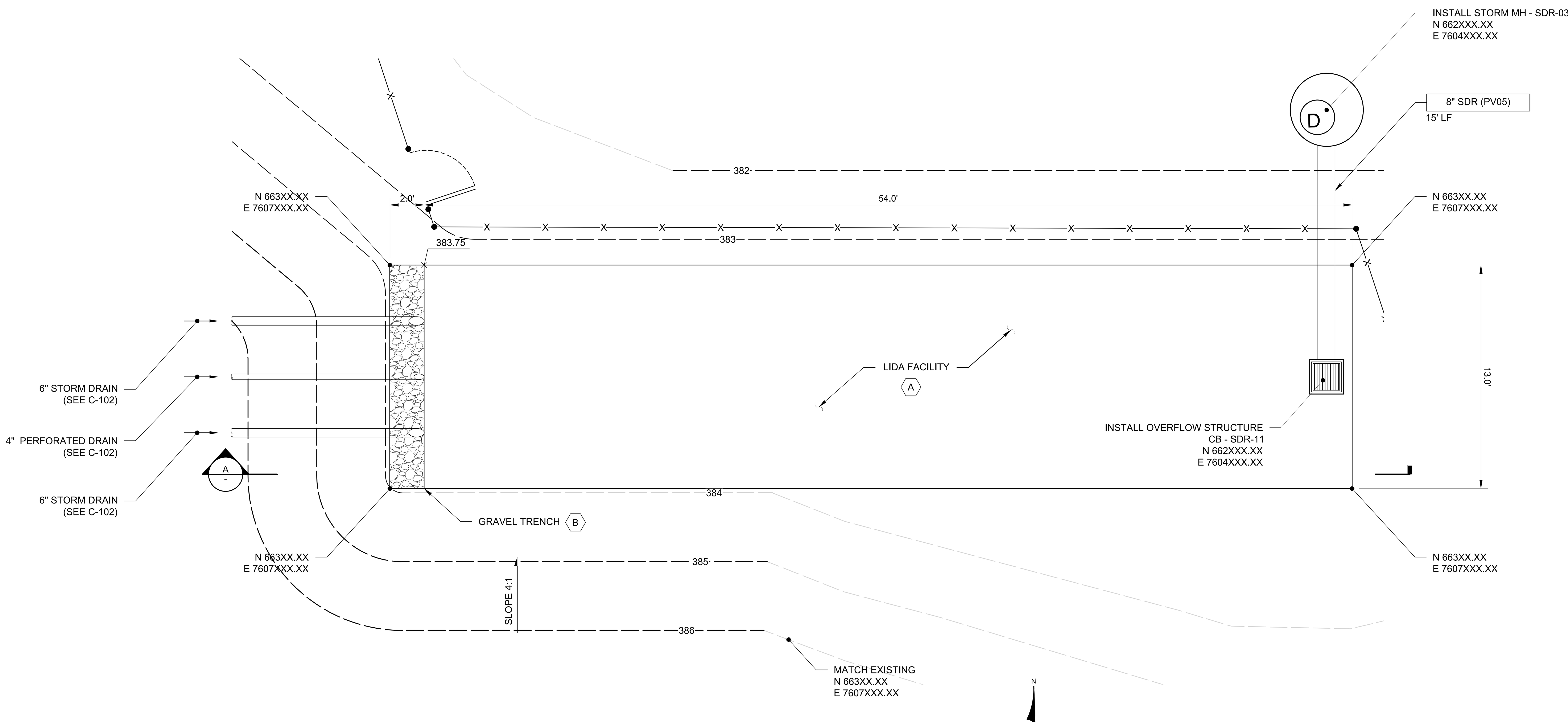
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
SK	RS	CG	2021.12.06

Title
CIVIL
SITE GRADING AND DRAINAGE PLAN

Revision:

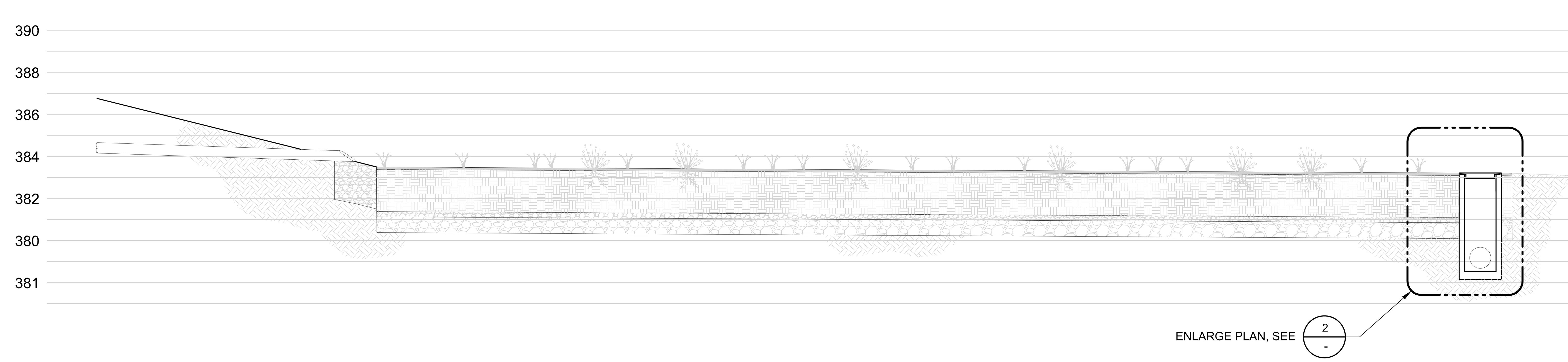
Drawing No.
C-102

ORIGINAL SHEET - ANSI D



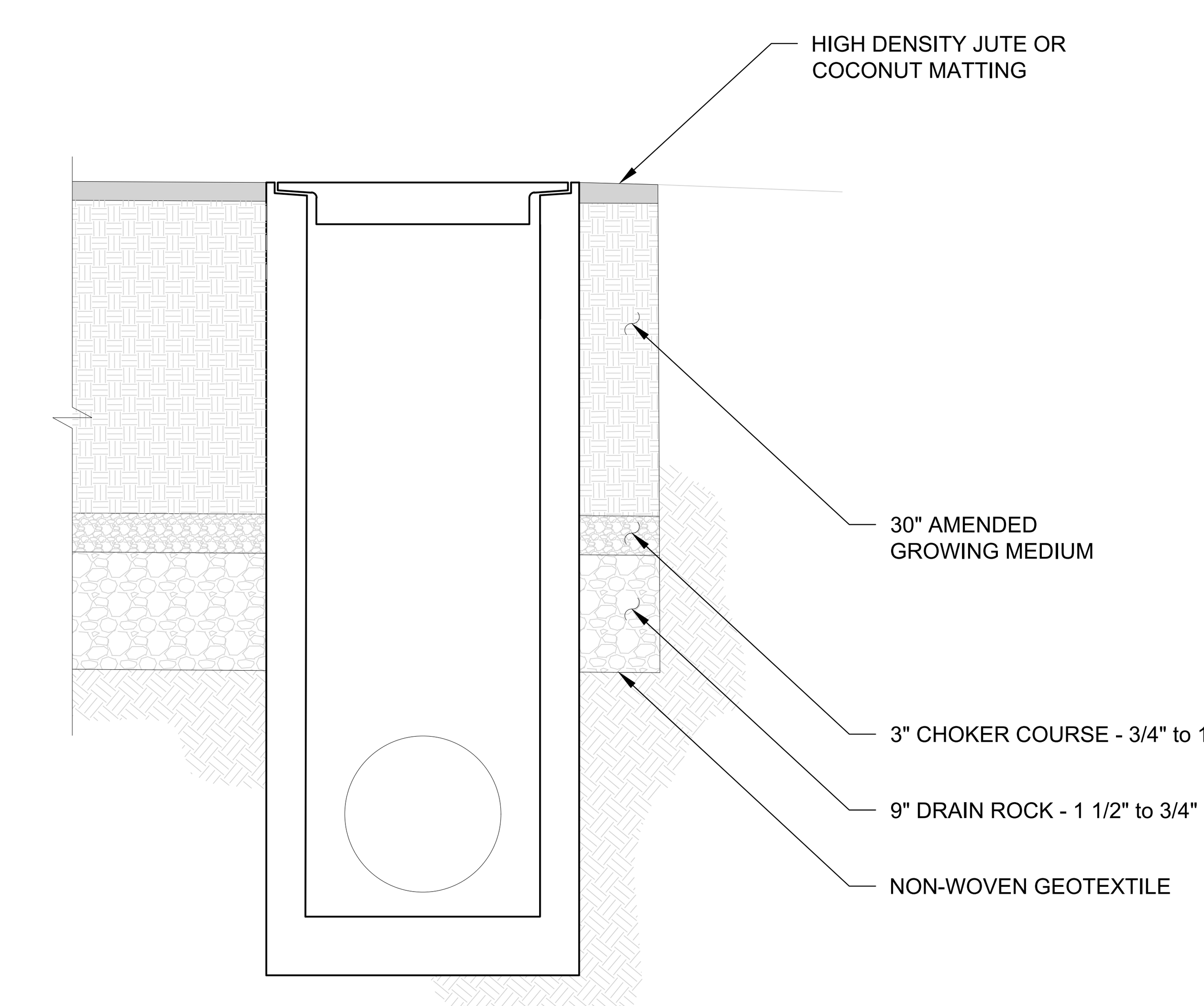
1 LIDA FACILITY PLAN

0 4 8



A SECTION

0 4 8



2 ENLARGED PLAN

0 4 8

GENERAL SHEET NOTES

1. NORTHING AND EASTING ARE TO THE HPI (HORIZONTAL POINT OF INTERSECTIONS).
2. SPOT ELEVATIONS ARE TO OUTSIDE CORNER OR CENTER OF STRUCTURE.

SHEET KEYNOTES

A. EVENLY DISTRIBUTED SHEET FLOW OF STORMWATER THROUGH VEGETATION.
   AREA 738 sq. ft.
   SLOPE: 0.50%
   CROSS SLOPE: 0.0%

B. GRAVEL TRENCH CLASS 50 RIP RAP

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Revision	By	Appd	YYYY.MM.DD

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C 90% REVIEW		BB	2021.12.06
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REGISTERED PROFESSIONAL ENGINEER
65179
OREGON
11/14/2000
BRYAN D. BLACK
EXPIRATION DATE:

Client/Project
City of Beaverton

PHASE - 2
SEXTON MOUNTAIN
PUMP STATION UPGRADE
Beaverton, Oregon

Project No.: 2002006149
File Name: 06149C-103

Scale: 1" = 5'

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Title
CIVIL
LIDA FACILITY
PLAN AND SECTION

Revision:

Drawing No.
C-103

ORIGINAL SHEET - ANSI D

GENERAL LANDSCAPE NOTES

1. VERIFY ALL UNDERGROUND UTILITY LOCATIONS PRIOR TO DIGGING.
2. THOROUGHLY WATER ALL PLANT MATERIAL (SATURATED BACKFILL) WITHIN 24-HOURS OF INSTALLATION REGARDLESS OF RAINFALL EVENTS.
3. VERIFY FIELD CONDITIONS PRIOR TO CONSTRUCTION. ANY PROPOSED ADJUSTMENTS TO PLANT LOCATIONS SHALL BE APPROVED BY ENGINEER.
4. PROTECT ALL TREES AND LAND AREAS TO REMAIN. DO NOT DAMAGE NATURAL (NON-INVASIVE) VEGETATION.
5. INCLUDE MYCORRHIZAL INOCULATES FOR ALL SEEDING AND INDIVIDUAL PLANT INSTALLATIONS. APPLY PER MANUFACTURER'S RECOMMENDATION.
6. PRIOR TO PLANTING, CONSTRUCT TWO TYPICAL PLANTING INSTALLATIONS PER DETAIL AND SPECIFICATIONS FOR APPROVAL BY ENGINEER. THE CONTRACTOR SHALL PLANT THE REMAINING SHRUBS IN THE SAME MANNER.
7. ALL PLANTS TO BE WARRANTEED FOR ONE YEAR.

LANDSCAPE SHEET KEYNOTES

A. LAWN REPAIR AREA
B. RAIN GARDEN
C. SLOPE SHRUB PLANTING AREA
D. ROCK MULCH

Received
Planning Division
12/3/2021

GENERAL LANDSCAPE SYMBOLS

- LAWN REPAIR SEEDED AREA
- GRAVEL MULCH AREA
- RAIN GARDEN
- TEMPORARY FENCE
- TREE PROTECTION FENCE
- NEW SHRUBS
- EXISTING DECIDUOUS TREE TO PRESERVE
- EXISTING CONIFEROUS TREE TO PRESERVE

GENERAL IRRIGATION NOTES

1. CONTACT UTILITIES FOR LOCATIONS OF UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
2. TWO IRRIGATION SYSTEMS ARE PRESENT ON THE SITE. SERVICE SHALL BE MAINTAINED TO BOTH SYSTEMS THROUGHOUT CONSTRUCTION PERIOD.
3. THE IRRIGATION SYSTEMS WILL BE REFERRED TO AS: 1) THPRD: TUALATIN HILLS PARKS AND RECREATION DISTRICT IRRIGATION SYSTEM THE SERVICES THE SEXTON MOUNTAIN PARK NORTH OF THE PROJECT, AND 2) COB: CITY OF BEAVERTON IRRIGATION SYSTEM SERVICING THE LANDSCAPE ASSOCIATED WITH THE RESERVOIR AND PUMP STATIONS. BOTH IRRIGATION CONTROLLERS ARE MOUNTED ON THE SIDE OF THE EXISTING PUMP HOUSE BUILDING, SEE L-103.
4. WORK ON THPRD PROPERTY INCLUDES:
   a. INSTALLING NEW CONTROLLER IN NEW STAINLESS STEEL UTILITY CABINET WITHIN THE PARK. CONTRACTOR TO PROTECT ALL WIRES DURING DEMOLITION AND CONSTRUCTION
   b. INSTALLING A NEW METER AND MAINLINE
   c. INSTALLING NEW BACKFLOW PREVENTION
   d. ADJUSTING THE LATERAL LINE AND IRRIGATION HEADS AS NECESSARY TO BE LOCATED WHOLLY WITHIN THPRD PROPERTY
   e. RECONNECT EXISTING DRINKING FOUNTAIN AND MAINTAIN SERVICE THROUGHOUT CONSTRUCTION PERIOD
   f. EXTEND ELECTRICAL SERVICE TO NEW CONTROLLER
5. WORK ON COB PROPERTY INCLUDES:
   a. PROTECT EXISTING IRRIGATION EQUIPMENT INCLUDING CONTROLLER MOUNTED ON EXISTING PUMP STATION, SEE L-103.
   b. ADJUST EXISTING IRRIGATION SYSTEM TO COVER PROPOSED NEW SHRUB PLANTING.
   i. IF EXISTING HEADS CANNOT BE MODIFIED, INSTALL NEW IRRIGATION ZONE TO PROVIDE COVERAGE.
   ii. IF THE CONTROLLER CANNOT ACCOMMODATE A NEW ZONE, USE SWITCH-HITTER DEVICE. PROVIDE SHOP DRAWING OF PROPOSED SOLUTION TO SHOW COMPLETE COVERAGE FOR NEW SHRUB PLANTING.
   c. PROVIDE A QUICK COUPLING VALVE AT THE EDGE OF THE STORMWATER FILTER STRIP ON A NEW ZONE. CONSTRUCT AN ABOVE-GROUND, TEMPORARY IRRIGATION SYSTEM FOR THE ESTABLISHMENT OF THE FILTER STRIP FOR 2-YEARS. PROVIDE SHOP DRAWING.
   i. TEMPORARY SYSTEM TO BE REMOVED AT THE END OF THE ESTABLISHMENT PERIOD.
   ii. IF THE CONTROLLER CANNOT ACCOMMODATE A NEW ZONE, USE SWITCH-HITTER DEVICE OR BATTERY-OPERATED REMOTE CONTROL IRRIGATION DEVICE.
6. WATER PRESSURE AT POINTS OF CONNECTION SHALL BE TESTED BY CONTRACTOR PRIOR TO BEGINNING WORK.

IRRIGATION SHEET KEYNOTES

A. COB: IRRIGATION CONTROLLER TO REMAIN, CONTRACTOR TO PRODUCE AS-BUILT DRAWING WITH PROPOSED MODIFICATIONS FOR APPROVAL PRIOR TO DEMOLITION. PROTECT WIRES DURING CONSTRUCTION. CUT AND TEMPORARILY CAP ANY WATER LINENS TO BE RELOCATED TO AVOID MATERIAL CONTAMINATING THE SYSTEM. MAINTAIN OPERATION DURING CONSTRUCTION WITHIN THE IRRIGATION WINDOW OF JUNE THROUGH SEPTEMBER.
B. COB: INSTALL NEW ZONE OF TEMPORARY IRRIGATION OF RAIN GARDEN FOR 2-YEAR ESTABLISHMENT PERIOD.
C. COB: MODIFY IRRIGATION TO PROVIDE COVERAGE OF NEW PLANTS; OR PROVIDE NEW IRRIGATION ZONE IF NECESSARY.
D. THPRD: REMOVED IRRIGATION CONTROLLER AND RETURN TO OWNER (THPRD). LABEL AND PROTECT WIRES DURING CONSTRUCTION.
E. THPRD: ADJUST LATERAL LINE AND IRRIGATION HEADS TO BE LOCATED OUTSIDE OF NEW FENCE.
F. THPRD: INSTALL CONTROLLER IN CABINET, SEE DETAIL 9/L-002. THPRD TO COORDINATE LOCATION OF CONTROLLER AND PAD 3' OUTSIDE OF NEW FENCE LOCATION MINIMUM.
G. THPRD: INSTALL 1 $\frac{1}{2}$" DOUBLECHECK BACKFLOW PREVENTER
H. THPRD: INSTALL WILKINS PRESSURE REGULATOR (AS NEEDED), SET AT 50-150 PSI.
I. THPRD: REMOVE AND SALVAGE METER AND OTHER EQUIPMENT.
J. THPRD: INSTALL SALVAGED METER.
K. THPRD: PEX SUPPLY LINE FROM METER TO POTABLE WATER SUPPLY LINE TEE.
L. THPRD: BACKFLOW PREVENTER AND 1" PEX POTABLE WATER SUPPLY LINE TO WATER FOUNTAIN.
M. THPRD: SCH 40 PVC MAIN LINE TO SCH 80 NIPPLE UNION
N. THPRD: BHM SERIES HYDROMETER
O. THPRD: SCH 80 NIPPLE UNION BEFORE PIPE INCREASE TO MAINLINE, SIZE TO BE DETERMINED POST 60%.
P. INSTALL QUICK COUPLER

GENERAL IRRIGATION SYMBOLS

- THPRD IRRIGATION ZONE ADJUSTMENT AREA
- COB IRRIGATION ZONE ADJUSTMENT AREA
- C — AUTOMATIC CONTROLLER
- M — METER
- QUICK COUPLING VALVE
- DOUBLECHECK BACKFLOW PREVENTER
- WILKINS PRESSURE REGULATOR
- BHM SERIES HYDROMETER
- SLEEVING
- MAINLINE
- LATERAL LINE

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			Revision
By	Appd	YYYY.MM.DD	

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C 90% REVIEW	DG	BB	2021.12.06
B 60% REVIEW	DG	BB	2021.09.08
A DESIGN DEVELOPMENT	AO	BB	2021.05.31

Permit/Seal

REGISTERED
767
David S. Goodyke
OREGON
05/11/12
LANDSCAPE ARCHITECT
RENEWS: 5-11-22

Client/Project
City of Beaverton

PHASE - 2
SEXTON MOUNTAIN
PUMP STATION UPGRADE
Beaverton, Oregon

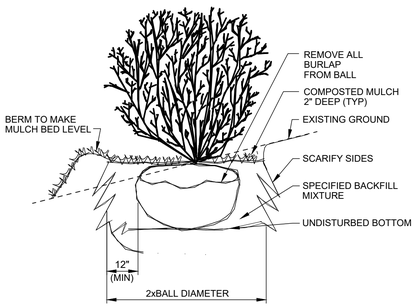
Project No.: 2002006149
File Name: 06149L-001
Scale: NO SCALE

JJ	DG		2021.12.06
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
LANDSCAPE GENERAL NOTES

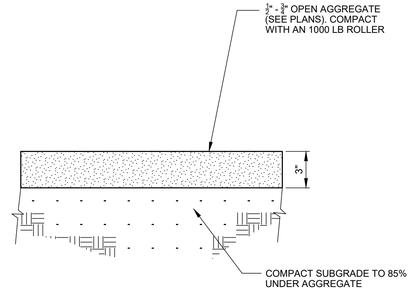
Revision:
Drawing No.
L-001

ORIGINAL SHEET - ANSI D



1. EXCAVATE AT LEAST 2 ½ TIMES THE SIZE OF THE ROOT BALL. SCARIFY ALL SIDE OF PLANTING PIT AND THE OUTER EDGE OF THE BOTTOM, LEAVING THE CENTER OF THE BOTTOM COMPACTED TO SUPPORT THE TREE.
2. CAREFULLY REMOVE CONTAINER OR BURLAP/ BASKET WITHOUT CAUSING DAMAGE TO ROOTBALL.
3. AMEND BACKFILL SOIL WITH COMPOST (10%-20% OF TOTAL VOLUME) AND MYCORRHYIZAL INOCULANTS PER MANUFACTURER'S RECOMMENDATION; MIX THOROUGHLY BEFORE BACKFILLING.
4. FILL PLANTING PIT WITH WATER AND ALLOW IT TO DRAIN COMPLETELY BEFORE INSTALLING SHRUB.
5. PLACE ROOTBALL ON MOUND OF UNDISTURBED OR COMPACTED SOIL TO PREVENT SETTLEMENT; SPREAD ROOTS AWAY FROM BALL. NO CIRCLING OR UNREASONABLY BENT ROOTS.
6. AFTER BACKFILL IS PLACED, SATURATE AND SETTLE WITH WATER TO REMOVE AIR POCKETS.
7. CONSTRUCT A 3" HIGH RAIN BASIN MADE OF BACKFILL MATERIAL ON THE DOWNHILL SIDE ONLY. ORIGINAL SLOPE SHOULD PASS THROUGH THE POINT WHERE THE TRUNK BASE MEETS SUBSTRATE/SOIL.

1 SHRUB PLANTING ON SLOPE



2 ROCK SURFACE DETAIL

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No.	Issued	By	Appd	YYYY.MM.DD
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B	60% REVIEW	BB	BB	2021.09.08
C	90% REVIEW	BB	BB	2021.12.06

Revision

Permit/Seal

REGISTERED
767
David S. Goodyke
OREGON
05/11/12
LANDSCAPE ARCHITECT
RENEWS: 5-11-22

Client/Project
City of Beaverton

PHASE - 2
SEXTON MOUNTAIN
PUMP STATION UPGRADE
Beaverton, Oregon

Project No.: 20020061 49
File Name: 06149L-002

Scale: NO SCALE

JJ	DG		2021.12.06
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
LANDSCAPE STANDARD DETAILS

Revision:

Drawing No.
L-002

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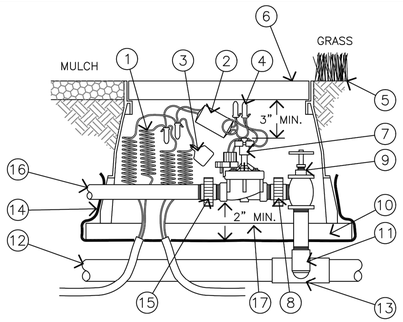
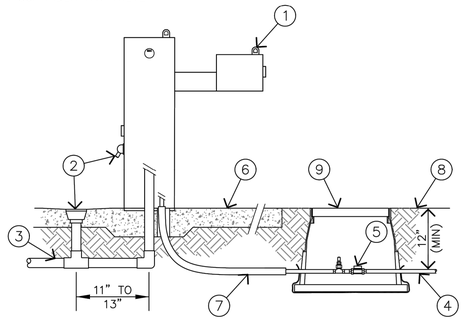
ORIGINAL SHEET - ANSI D



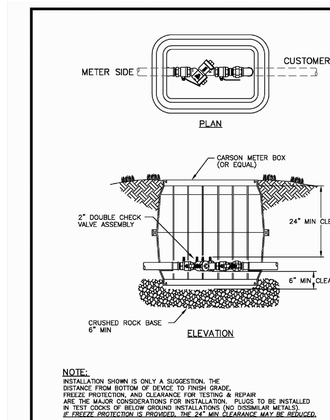
1. TWO–WIRE SYSTEM. 36" LINEAL LENGTH OF WIRE, COILED
2. BICODER. RED TO RED, BLACK TO BLACK
3. ID TAG: VID SERIES
4. WATERPROOF CONNECTION: DBR/DBY SPLICE–1 (1 OF 4)
5. FINISH GRADE (MULCH/GRASS)
6. VALVE BOX, AS SPECIFIED
7. REMOTE CONTROL VALVE, AS SPECIFIED
8. SCH. 80 PVC TXT UNION
9. BRASS MANUAL ANGLE VALVE
10. 2X6" PLASTIC LUMBER UNDER BOTH SIDES, LENGTH OF BOX. EXTEND 2" BEYOND BOX.
11. SCH. 80 PVC NIPPLE (2" LENGTH, HIDDEN) AND SCH. 40 PVC ELL
12. PVC MAIN LINE, AS NOTED
13. SCH. 40 PVC TEE OR ELL
14. LANDSCAPE GRADE FILTER FABRIC, WRAP UP SIDES OF VALVE BOX
15. SCH. 80 PVC MALE X SLIP UNION
16. PVC LATERAL PIPE
17. 2" CLEAR BETWEEN VALVE ASSEMBLY AND FABRIC

1 CONTROL VALVE

1. MDF DRINKING FOUNTAIN, SEE SPECS FOR OPTIONS
2. AREA DRAIN REQUIRED WITH JUG FILLER
3. CONNECT TO SEWER, STORM OR DRY WELL PER CIVIL PLANS
4. PEX SUPPLY LINE FROM POINT OF BEGINNING
5. WINTERIZATION ASSEMBLY: ¼ TURN BRASS BALL VALVE AND INLINE BRASS TEE WITH SCHRADER AIR VALVE
6. CONCRETE SLAB, SEE PLANS FOR FOUNTAIN LOCATION AND ORIENTATION
7. 1 ½" FLEXIBLE SCH 40 PVC SPA LINE SLEEVE UNDER PAVEMENT
8. FINISH GRADE
9. 12" STANDARD VALVE BOX WITH 2X6X16" PLASTIC LUMBER BASE, EACH SIDE. WRAP WITH FILTER FABRIC



2 DRINKING FOUNTAIN UTILITY CONNECTIONS

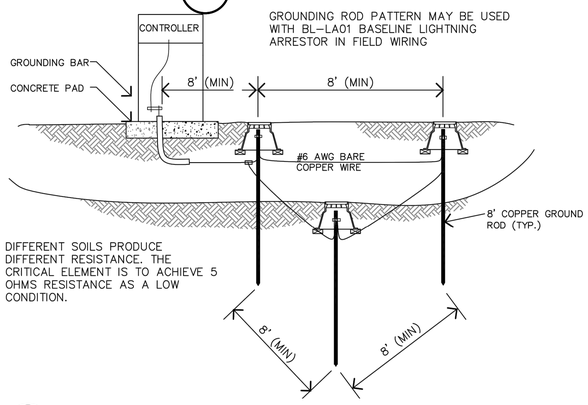


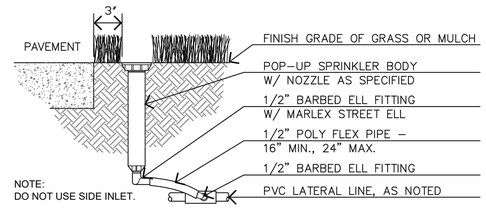
NOTE:
INSTALLATION SHOWN IS ONLY A SUGGESTION. THE DISTANCE FROM BOTTOM OF DEVICE TO FINISH GRADE, FREEZE PROTECTION, AND CLEARANCE FOR TESTING & REPAIR ARE THE MAJOR CONSIDERATIONS FOR INSTALLATION. PLUGS TO BE INSTALLED IN TEST COCKS OF BELOW GROUND INSTALLATIONS (NO DISSIMILAR METALS). *IF FREEZE PROTECTION IS PROVIDED, THE 24" MIN. CLEARANCE MAY BE REDUCED.*

Tualatin Valley Water District 1850 SW 170th Ave. Beaverton, OR 97006 (503) 642-1511	DESIGNED: POB APPROVED: MFK SCALE: NONE	1-1/2", 2" & 2-1/2" DOUBLE CHECK INSTALLATION	DATE: 5/1/2012 DETAIL BF 102

NOTE:
INSTALL DOUBLE CHECK VALVE ASSEMBLY PER TVWD DETAIL BF 102 UNLESS OTHERWISE NOTED. INSTALL WITH UNIONS AT BOTH ENDS OF DCVA.

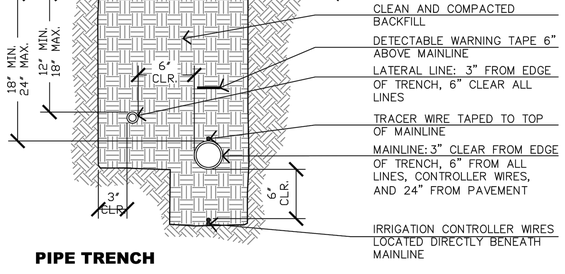
3 DOUBLE CHECK VALVE





1. FINISH GRADE OF GRASS OR MULCH
2. POP–UP SPRINKLER BODY W/ NOZZLE AS SPECIFIED
3. 1/2" BARBED ELL FITTING W/ MARLEX STREET ELL
4. 1/2" POLY FLEX PIPE – 16" MIN., 24" MAX.
5. 1/2" BARBED ELL FITTING
6. PVC LATERAL LINE, AS NOTED

4 SPRAY / MP ROTATOR POLY FLEX RISER

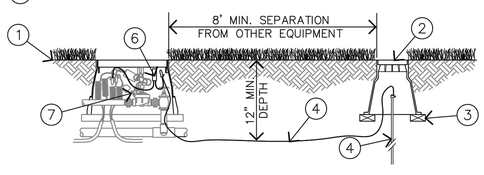


PIPE TRENCH

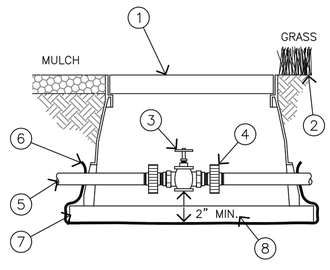
5 PIPE TRENCH

6 CONTROLLER GROUNDING

1. FINISH GRADE
2. 10" JUNCTION BOX
3. 2X6X16" PLASTIC LUMBER UNDER BOTH SIDES (1 OF 2)
4. 8' GROUNDING ROD, INSTALL PER CODE
5. #8 AWG SOLID BARE CU WIRE OR PER LOCAL CODE
6. BL–LA01 BASELINE LIGHTING ARRESTOR
7. EXISTING CONTROL VALVE ASSEMBLY, SEE DETAIL



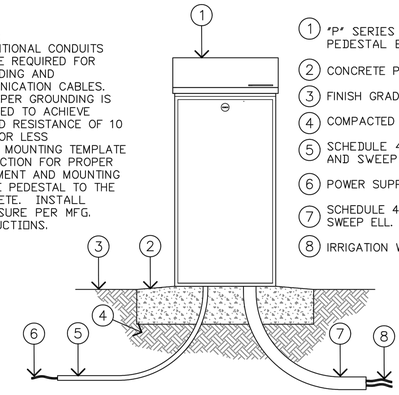
7 LIGHTNING ARRESTOR



1. SPECIFIED VALVE BOX
2. FINISH GRADE
3. BRASS ANGLE OR GLOBE VALVE AS SPECIFIED W/ SCH. 80 PVC FITTINGS
4. SCH. 80 PVC MALE X SLIP UNION (1 OF 2)
5. PVC MAIN LINE, AS NOTED
6. LANDSCAPE GRADE FILTER FABRIC, WRAP UP SIDES OF VALVE BOX
7. 2X6" PLASTIC LUMBER UNDER BOTH SIDES, LENGTH OF BOX. EXTEND 2" BEYOND BOX.
8. 2" CLEAR BETWEEN VALVE ASSEMBLY AND FABRIC

8 ISOLATION / MANUAL CONTROL VALVE

NOTES:
1. ADDITIONAL CONDUITS MAY BE REQUIRED FOR GROUNDING AND COMMUNICATION CABLES.
2. PROPER GROUNDING IS REQUIRED TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS
3. SEE MOUNTING TEMPLATE INSTRUCTION FOR PROPER PLACEMENT AND MOUNTING OF THE PEDESTAL TO THE CONCRETE. INSTALL ENCLOSURE PER MFG. INSTRUCTIONS.



1. "P" SERIES STAINLESS STEEL PEDESTAL ENCLOSURE
2. CONCRETE PAD, MIN. 6" THICK
3. FINISH GRADE
4. COMPACTED SUB–GRADE
5. SCHEDULE 40 PVC CONDUIT, FITTINGS AND SWEEP ELL. SIZE PER LOCAL CODE
6. POWER SUPPLY
7. SCHEDULE 40 PVC CONDUIT, FITTINGS AND SWEEP ELL. SIZE PER CODE
8. IRRIGATION WIRES TO VALVES

NOTE:
POWER SUPPLIED BY CITY OF BEAVERTON WATER.

9 STAINLESS STEEL CABINET

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No.	Revision	By	Appd	YYYY.MM.DD
A	DESIGN DEVELOPMENT	AO	BB	2021.05.31
B	60% REVIEW	BB	BB	2021.09.08
C	90% REVIEW	BB	BB	2021.12.06

Issued

Permit/Seal

REGISTERED 767 David S. Goodyke OREGON 05/11/12 LANDSCAPE ARCHITECT
RENEWS: 5-11-22

Client/Project
City of Beaverton

PHASE - 2
SEXTON MOUNTAIN
PUMP STATION UPGRADE
Beaverton, Oregon

Project No.: 2002006149
File Name: 06149L-003
Scale: NO SCALE

JJ	DG		2021.12.06
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
THPRD SUPPLIED STANDARD DETAILS

Revision:
Drawing No.
L-003

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ORIGINAL SHEET - ANSI D

LANDSCAPE SHEET KEYNOTES

A. LAWN REPAIR AREA

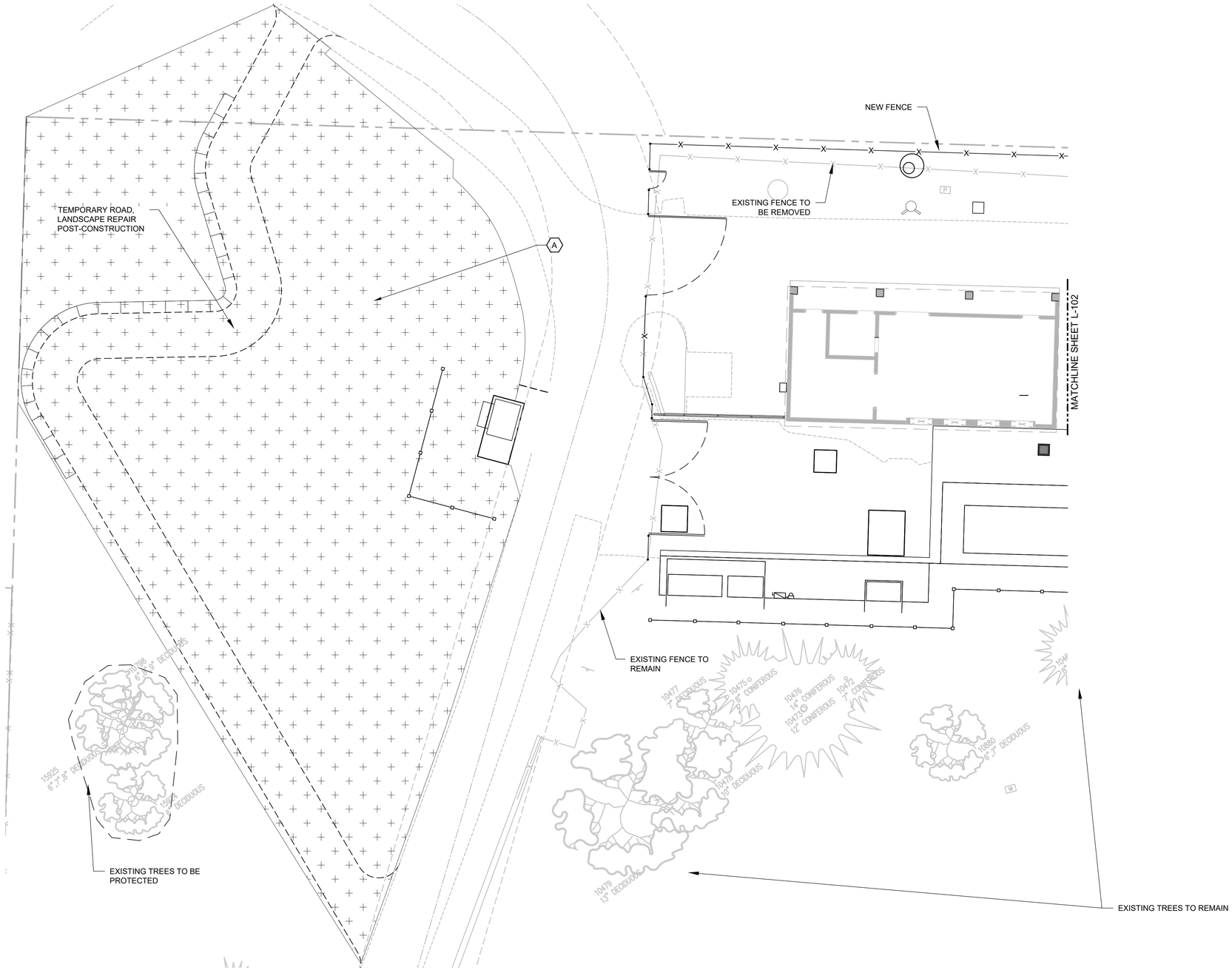
B. RAIN GARDEN

C. SLOPE SHRUB PLANTING AREA

D. ROCK MULCH

N

0 10 20



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Issued	By	Appd	YYYY.MM.DD
A DESIGN DEVELOPMENT	DG	BB	2021.05.31
B 60% REVIEW	DG	BB	2021.09.08
C 90% REVIEW	AO	BB	2021.12.06

Revision	By	Appd	YYYY.MM.DD

Permit/Seal

REGISTERED
767
David S. Goodyke
OREGON
05/11/12
LANDSCAPE ARCHITECT
RENEWS: 5-11-22

Client/Project
City of Beaverton

PHASE - 2
SEXTON MOUNTAIN
PUMP STATION UPGRADE
Beaverton, Oregon

Project No.: 20020061 49

File Name: 06149L-101

Scale: 1" = 10'-0"

JJ	DG		2021.12.06
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
SITE
PLAN

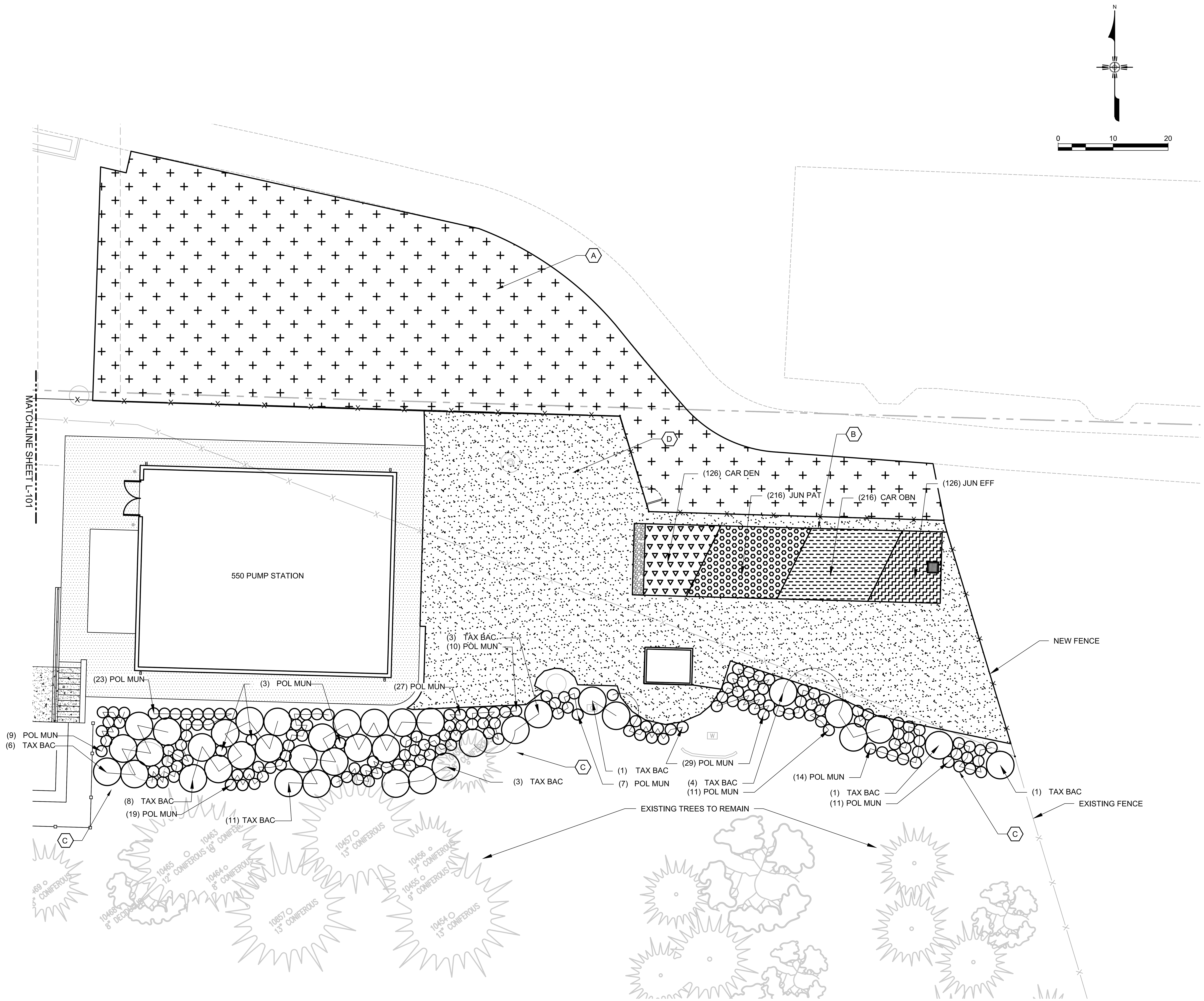
Revision:

Drawing No.
L-101

ORIGINAL SHEET - ANSI D

LANDSCAPE SHEET KEYNOTES

A. LAWN REPAIR AREA
B. RAIN GARDEN
C. SLOPE SHRUB PLANTING AREA
D. ROCK MULCH



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Revision	By	Appd	YYYY.MM.DD

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C 90% REVIEW	DG	BB	2021.12.06
B 60% REVIEW	DG	BB	2021.09.08
A DESIGN DEVELOPMENT	AO	BB	2021.05.31

Permit/Seal

REGISTERED LANDSCAPE ARCHITECT
767
David S. Goodyke
OREGON
05/11/12
RENEWS: 5-11-22

Client/Project
City of Beaverton

PHASE - 2
SEXTON MOUNTAIN
PUMP STATION UPGRADE
Beaverton, Oregon

Project No.: 2002006149
File Name: 06149L-102
Scale: 1" = 10'-0"

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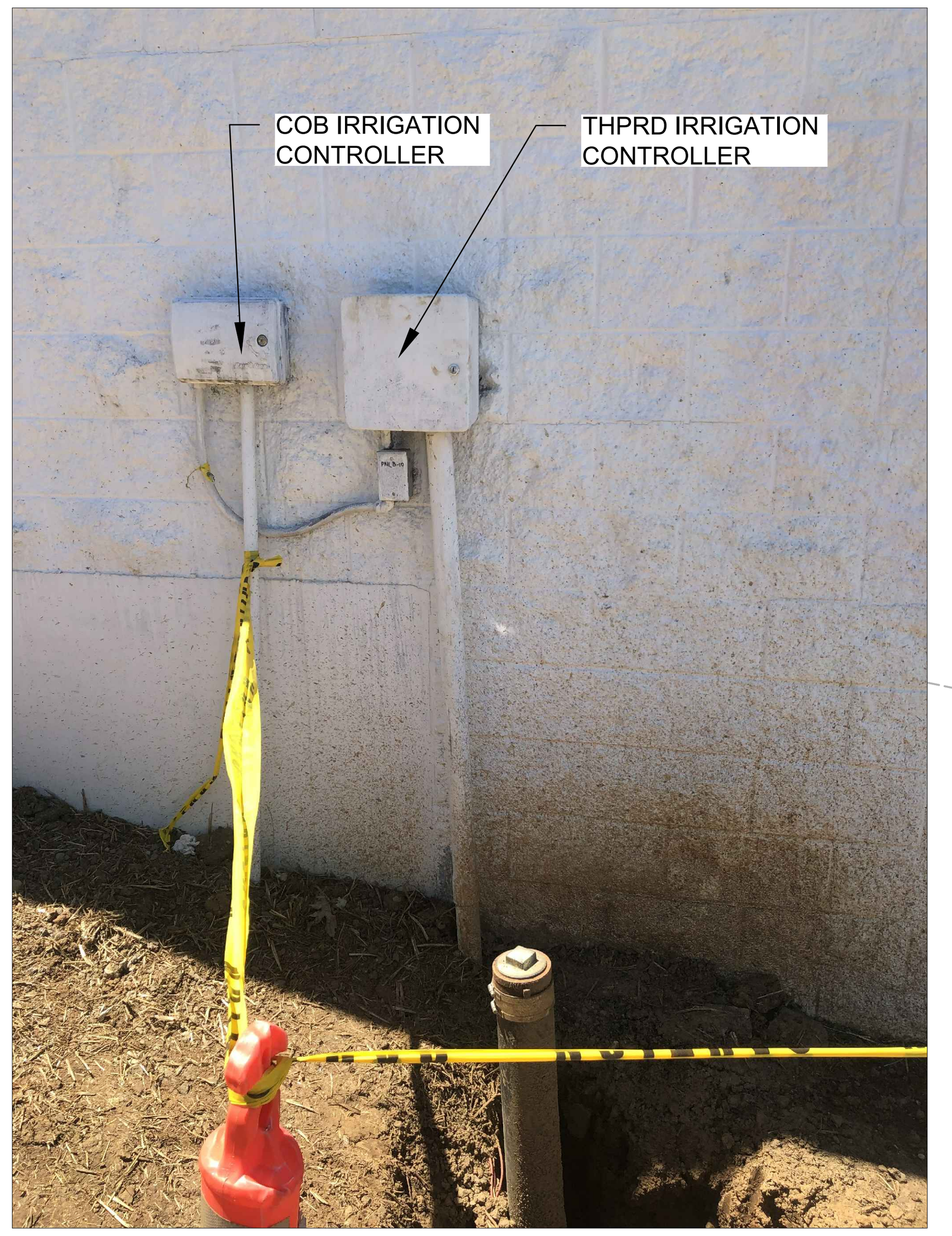
JJ	DG		2021.12.06

Title
SITE
PLAN

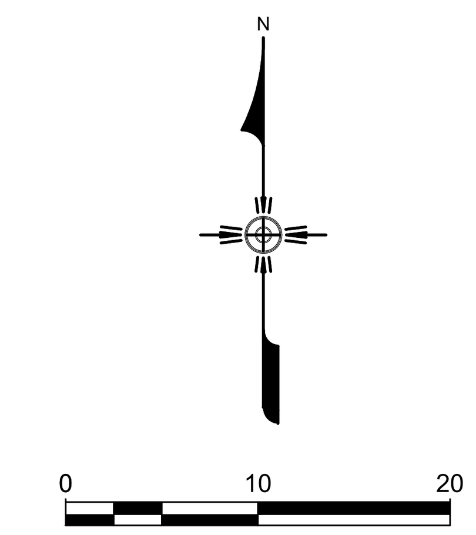
Revision:

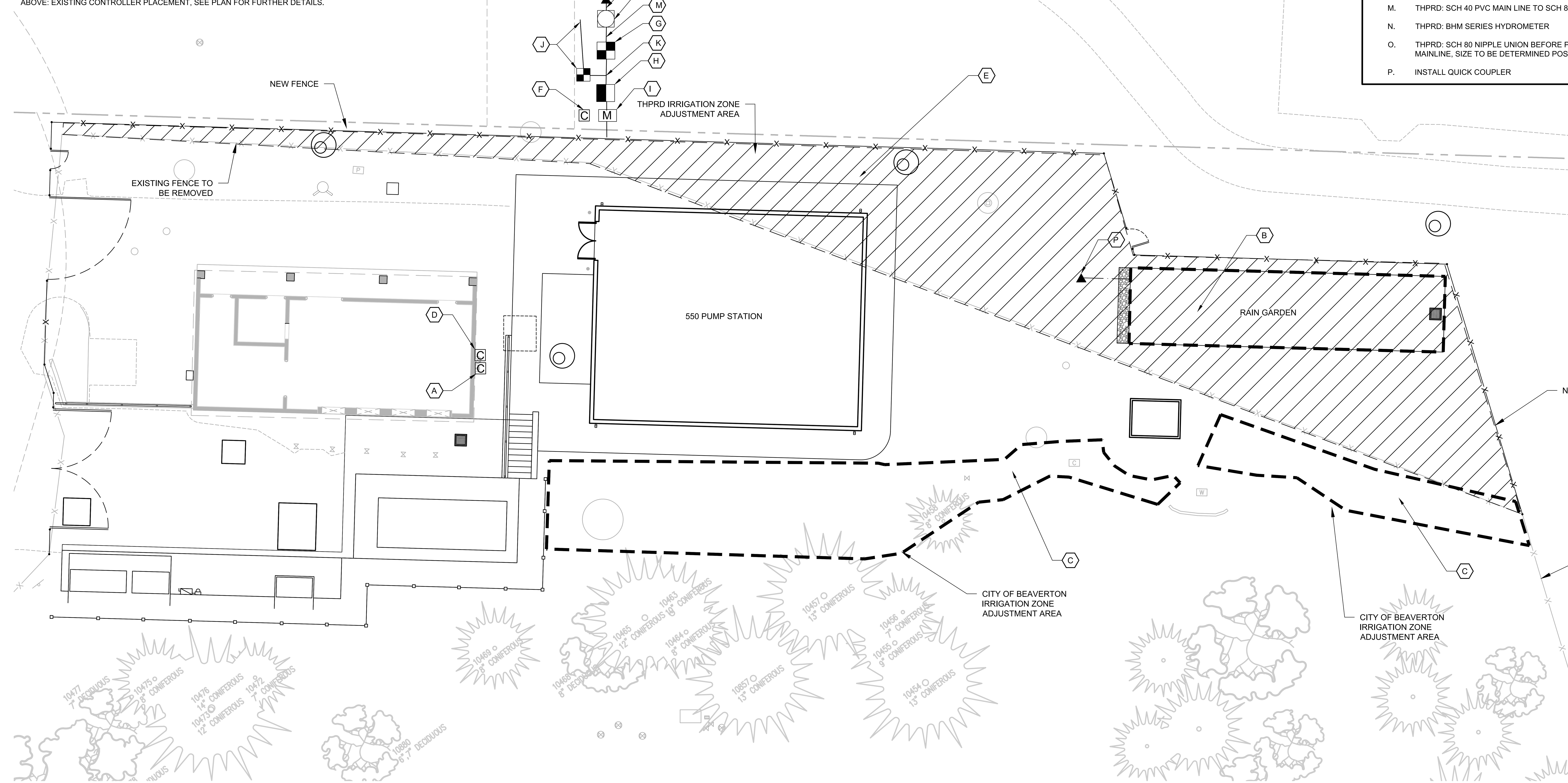
Drawing No.
L-102

ORIGINAL SHEET - ANSI D



ABOVE: EXISTING CONTROLLER PLACEMENT, SEE PLAN FOR FURTHER DETAILS.





IRRIGATION SHEET KEYNOTES

A. COB: IRRIGATION CONTROLLER TO REMAIN. CONTRACTOR TO PRODUCE AS-BUILT DRAWING WITH PROPOSED MODIFICATIONS FOR APPROVAL PRIOR TO DEMOLITION. PROTECT WIRES DURING CONSTRUCTION. CUT AND TEMPORARILY CAP ANY WATER LINENS TO BE RELOCATED TO AVOID MATERIAL CONTAMINATING THE SYSTEM. MAINTAIN OPERATION DURING CONSTRUCTION WITHIN THE IRRIGATION WINDOW OF JUNE THROUGH SEPTEMBER.

B. COB: INSTALL NEW ZONE OF TEMPORARY IRRIGATION OF RAIN GARDEN FOR 2-YEAR ESTABLISHMENT PERIOD.

C. COB: MODIFY IRRIGATION TO PROVIDE COVERAGE OF NEW PLANTS; OR PROVIDE NEW IRRIGATION ZONE IF NECESSARY.

D. THPRD: REMOVED IRRIGATION CONTROLLER AND RETURN TO OWNER (THPRD). LABEL AND PROTECT WIRES DURING CONSTRUCTION.

E. THPRD: ADJUST LATERAL LINE AND IRRIGATION HEADS TO BE LOCATED OUTSIDE OF NEW FENCE.

F. THPRD: INSTALL CONTROLLER IN CABINET, SEE DETAIL 9/L-002. THPRD TO COORDINATE LOCATION OF CONTROLLER AND PAD 3' OUTSIDE OF NEW FENCE LOCATION MINIMUM.

G. THPRD: INSTALL 1 $\frac{1}{2}$" DOUBLECHECK BACKFLOW PREVENTER

H. THPRD: INSTALL WILKINS PRESSURE REGULATOR (AS NEEDED), SET AT 50-150 PSI.

I. THPRD: REMOVE AND SALVAGE METER AND OTHER EQUIPMENT.

J. THPRD: INSTALL SALVAGED METER.

K. THPRD: PEX SUPPLY LINE FROM METER TO POTABLE WATER SUPPLY LINE TEE.

L. THPRD: BACKFLOW PREVENTER AND 1" PEX POTABLE WATER SUPPLY LINE TO WATER FOUNTAIN.

M. THPRD: SCH 40 PVC MAIN LINE TO SCH 80 NIPPLE UNION

N. THPRD: BHM SERIES HYDROMETER

O. THPRD: SCH 80 NIPPLE UNION BEFORE PIPE INCREASE TO MAINLINE, SIZE TO BE DETERMINED POST 60%.

P. INSTALL QUICK COUPLER

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Revision

Revision	By	Appd	YYYY.MM.DD

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B 60% REVIEW	DG	BB	2021.09.08
A DESIGN DEVELOPMENT	AO	BB	2021.05.31

Permit/Seal

REGISTERED 767 David S. Goodyke OREGON 05/11/12 LANDSCAPE ARCHITECT
RENEWS: 5-11-22

Client/Project
City of Beaverton

PHASE - 2
SEXTON MOUNTAIN
PUMP STATION UPGRADE
Beaverton, Oregon

Project No.: 2002006149
File Name: 06149L-103
Scale: 1" = 10'-0"

JJ	DG		2021.12.06
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
IRRIGATION PLAN

Revision:

Drawing No.
L-103

ORIGINAL SHEET - ANSI D

SHRUBS

PLANT CODE	LATIN NAME	COMMON NAME	SIZE	SPACING
GAR ELL	GARRYA ELLIPTICA 'JAMES ROOF'	JAMES ROOF SILKTASSEL	5 GALLON	AS SHOWN
TAX BAC	TAXUS BACCATA 'REPANDENS'	CREEPING ENGLISH YEW	3 GALLON	AS SHOWN
POL MUN	POLYSTICHUM MUNITUM	WESTERN SWORD FERN	1 GALLON	AS SHOWN

HERBACEOUS PLANTS

HATCH	PLANT CODE	LATIN NAME	COMMON NAME	SIZE	SPACING
	CAR DEN	CAREX DENSA	DENSE SEDGE	SP5 CONTAINER*	AS SHOWN
	CAR OBN	CAREX OBNUPTA	SLOUGH SEDGE	SP5 CONTAINER*	AS SHOWN
	JUN EFF	JUNCUS EFFUSUS VAR. PACIFICUS	SOFT RUSH	SP5 CONTAINER*	AS SHOWN
	JUN PAT	JUNCUS PATENS	SPREADING RUSH	SP5 CONTAINER*	AS SHOWN

*SP5 CONTAINER IS INDUSTRY EQUIVALENT OF $\frac{1}{4}$ GALLON.

LAWN REPAIR SEED MIX*

HATCH	LATIN NAME	COMMON NAME	% BY WEIGHT
	FESTUCA ARUNDINACEA 'TURFWAY'	TURF-TYPE TALL FESCUE	40.00%
	FESTUCA ARUNDINACEA 'HOUNDOG 8'	PERENNIAL RYEGRASS	30.00%
	FESTUCA ARUNDINACEA 'BLOODHOUND'	CREEPING RED FESCUE	25.00%

* PT 301 WATER SMARTER TALL FESCUE BLEND

REV 010119

ORIGINAL SHEET - ANSI D

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Revision	By	Appd	YYYY.MM.DD

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A DESIGN DEVELOPMENT	AO	BB	2021.05.31

Permit/Seal

REGISTERED
767
David S. Goodyke
OREGON
05/11/12
LANDSCAPE ARCHITECT
RENEWS: 5-11-22

Client/Project
City of Beaverton

PHASE - 2
SEXTON MOUNTAIN
PUMP STATION UPGRADE
Beaverton, Oregon

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File Name: 06149L-601
Scale: NO SCALE

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JJ	DG		2021.12.06

Title
PLANT SCHEDULE

Revision:
Drawing No.
L-601

ONE-LINE, POWER, AND LIGHTING SYMBOLOGY

X 20A 3P OR X 100AF 80AT 3P — LOW VOLTAGE CIRCUIT BREAKER (CB). RATING AND NO. OF POLES AS SHOWN. WHEN SPECIFIC TYPE, OTHER THAN MCCB, IS REQUIRED, X INDICATES TYPE.

TYPES:
- MCCB - MOLDED CASE
- ICCB - INSULATED CASE
- LVP - LOW VOLTAGE POWER
- MCP - MOTOR CIRCUIT PROTECTOR (RATING PER CONNECTED LOAD)

TRIP UNIT:
- L - LONG TIME PICKUP
- S - SHORT TIME PICKUP
- I - INSTANTANEOUS PICKUP
- G - GROUND FAULT PICKUP
- A - ARC ENERGY REDUCTION MODE

X — INTERLOCK: X - INDICATES TYPE

TYPES:
- E - ELECTRICAL
- M - MECHANICAL
- K - KEY

GFP — GROUND FAULT PROTECTION

52 — MEDIUM VOLTAGE CIRCUIT BREAKER

FUSE, RATING, AND NUMBER OF FUSES AS NOTED

FUSED CUTOUT, CURRENT RATING, FUSE RATING, AND QUANTITY AS NOTED

FUSIBLE SWITCH, CURRENT RATING, FUSE RATING, AND QUANTITY AS NOTED (3 POLE UON)

NON-FUSED SWITCH, CURRENT RATING, AND NUMBER OF POLES AS NOTED (3 POLE UON)

DISCONNECT OR DRAWOUT CONNECTION

A & B — MAGNETIC MOTOR STARTER AND SEPARATELY MOUNTED COMBINATION MAGNETIC MOTOR STARTER

D & D — MOTOR/LOAD CONTROLLER AND SEPARATELY MOUNTED MOTOR/LOAD CONTROLLER WITH SHORT CIRCUIT PROTECTION AND DISCONNECT

MOTOR STARTER AND CONTROLLER SUBSCRIPTS:

A - MAGNETIC STARTER NEMA SIZE

B - STARTER TYPE
- NONE - FULL VOLTAGE NON-REVERSING (FVNR)
- FVR - FULL VOLTAGE REVERSING
- 2S - TWO SPEED
- RVAT - REDUCED VOLTAGE AUTO TRANSFORMER

C - CONTROL DIAGRAM OR CONTROLS SCHEDULE NUMBER (IF REQUIRED)

D - CONTROLLER TYPE
- VFD - VARIABLE FREQUENCY DRIVE
- SS - SOLID STATE
- CONT - CONTACTOR

SEPARATELY MOUNTED COMBINATION MOTOR STARTER OR CONTROLLER; SEE ELECTRICAL ONE - LINE DIAGRAM OR SCHEDULE FOR DESCRIPTION

SEPARATELY MOUNTED MOTOR STARTER OR CONTROLLER; SEE ELECTRICAL ONE-LINE DIAGRAM OR SCHEDULE FOR DESCRIPTION.

X — NON-FUSED SAFETY SWITCH, 30A, 3P, X INDICATES AMP RATING GREATER THAN 30A

X/Y — FUSED SAFETY SWITCH, 3P, X INDICATES AMP RATING GREATER THAN 30A, Y INDICATES FUSE SIZE

CB — SEPARATELY MOUNTED CIRCUIT BREAKER; SEE ELECTRICAL ONE - LINE DIAGRAM OR SCHEDULE FOR DESCRIPTION

7 1/2 OR HP — MOTOR WITH DESIGN HORSEPOWER (WHEN INDICATED)

G — GENERATOR

ATS — TRANSFER SWITCH, CURRENT RATING, AND NUMBER OF POLES AS NOTED

ATS - AUTOMATIC
MTS - MANUAL

AUTOMATIC TRANSFER SWITCH BYPASS ISOLATION TYPE

TRANSFORMER
- △ 3-PHASE, 3-WIRE DELTA CONNECTION
- Y 3-PHASE, 4-WIRE GROUNDED WYE CONNECTION

LP100 208/120V 3ø, 4W — SWITCHBOARD OR PANELBOARD; NAME, VOLTAGE, PHASE, NUMBER OF WIRES WHEN INDICATED

100 KVA — NON-MOTOR LOAD WITH DESIGN KVA, KW, OR AMP

VOLTAGE TRANSFORMER (VT, PT, OR CPT)

CURRENT TRANSFORMER (CT)

WH — UTILITY WATT-HOUR METER PER UTILITY REQUIREMENTS

DMP — DIGITAL METERING PACKAGE

GROUND

LIGHTNING ARRESTER

SPD — LOW VOLTAGE SURGE PROTECTIVE DEVICE

SS — SELECTOR SWITCH

PB — PUSHBUTTON

IC — INSTRUMENTATION/CONTROL DEVICE

CONTROL PANEL INTEGRAL OR PROVIDED WITH ASSOCIATED EQUIPMENT

CONTROL PANEL WITH DISCONNECT SWITCH INTEGRAL OR PROVIDED WITH ASSOCIATED EQUIPMENT

J — JUNCTION OR PULL BOX

PANELBOARD (250V TO 600V)

PANELBOARD (LESS THAN 250V)

X — ELECTRICAL EQUIPMENT ENCLOSURE: SWITCHBOARD, MOTOR CONTROL CENTER, CONTROL PANEL, TRANSFORMER OR OTHER EQUIPMENT AS INDICATED. ESTIMATED SIZE AS INDICATED. WHEN USED X INDICATES EQUIPMENT TYPE.

EQUIPMENT TYPES:
- ATS - AUTOMATIC TRANSFER SWITCH
- CP - CONTROL PANEL
- MTS - MANUAL TRANSFER SWITCH
- MCC - MOTOR CONTROL CENTER
- UPS - UNINTERRUPTIBLE POWER SUPPLY
- VFD - VARIABLE FREQUENCY DRIVE
- SB - SWITCHBOARD
- SG - SWITCHGEAR
- T - TRANSFORMER

Received
Planning Division
12/3/2021

Z / X/Y — CEILING/PENDANT/BOLLARD MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED

Z / X/Y — CEILING/PENDANT/BOLLARD MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED, EMERGENCY (INTERNAL OR EXTERNAL POWER SOURCE AS INDICATED)

Z / X/Y — WALL MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED

Z / X/Y — WALL MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED, EMERGENCY (INTERNAL OR EXTERNAL POWER SOURCE AS INDICATED)

Z / X/Y — WALL MOUNTED FLOOD LUMINAIRE, LAMP TYPE AS SPECIFIED

Z / X/Y — POLE/STANCHION MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED

Z / X/Y — POLE/STANCHION MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED, EMERGENCY (INTERNAL OR EXTERNAL POWER SOURCE AS INDICATED)

Z / X/Y — POLE/STANCHION MOUNTED FLOOR LUMINAIRE, LAMP TYPE AS SPECIFIED

Z / X/Y — CEILING/PENDANT MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED

Z / X/Y — WALL MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED

Z / X/Y — CEILING/PENDANT MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED, ALL OR PARTIAL EMERGENCY (INTERNAL OR EXTERNAL POWER SOURCE AS INDICATED)

Z / X/Y — WALL MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED, ALL OR PARTIAL EMERGENCY (INTERNAL OR EXTERNAL POWER SOURCE AS INDICATED)

X/Y — EMERGENCY LIGHT, NUMBER OF ATTACHED HEADS AS SHOWN

X/Y — EMERGENCY LIGHT, REMOTE MOUNTED HEAD

X/Y — DOUBLE-FACED CEILING OR WALL MOUNTED EXIT LIGHT; DIRECTIONAL ARROWS (IF REQUIRED) AS INDICATED ON PLANS

X/Y — SINGLE-FACED CEILING OR WALL MOUNTED EXIT LIGHT; DIRECTIONAL ARROWS (IF REQUIRED) AS INDICATED ON PLANS

LIGHTING FIXTURE SUBSCRIPTS:
- X - INDICATES LUMINAIRE TYPE PER LUMINAIRE SCHEDULE
- Y - INDICATES CIRCUIT NUMBER FROM PANELBOARD
- Z - INDICATES CONTROLLING SWITCH (IF REQUIRED)
- NL - NIGHT LIGHT UNSWITCHED

$ Y/X — WALL SWITCH

SUBSCRIPTS:
X - INDICATES TYPE
- NONE - SINGLE POLE
- 2 - DOUBLE POLE
- 3 - THREE-WAY
- 4 - FOUR-WAY
- K - KEY SWITCH
- P - PILOT LIGHT
- L - LIGHTED HANDLE
- DM - DIMMING
- MC - MOMENTARY CONTACT
- T - TIMER

Y - INDICATES CONTROLLING SWITCH (IF REQUIRED)

$ Y/X — MANUAL MOTOR STARTER

SUBSCRIPTS:
X - INDICATES TYPE
- HP - HORSEPOWER RATED
- TE - HORSEPOWER RATED WITH THERMAL ELEMENT
- FT - HORSEPOWER RATED WITH FUSETRON FUSE

Y - INDICATES SWITCH TYPE
- NONE - TOGGLE SWITCH TYPE
- R - ROTARY SWITCH TYPE

PC — PHOTOCELL

TC — TIME CLOCK

$OS OR OS — LIGHTING CONTROL OCCUPANCY SENSOR, WALL MOUNTED

OS — LIGHTING CONTROL OCCUPANCY SENSOR, CEILING MOUNTED

LC — LIGHTING CONTROLS, SEE SCHEDULES
X = CONTROLLING SWITCH
Y = OS, OCCUPANCY SENSOR
PC, PHTOCELL

SD — SMOKE DETECTOR

PLUG-IN RECEPTACLE STRIP, QUANTITY AND SPACING OF RECEPTACLES AS NOTED OR SPECIFIED

X/Y — SPECIAL-PURPOSE RECEPTACLE AS DEFINED ON PLANS

X/Y OR X/Y — TWO RECEPTACLES IN 2-GANG BOX UNDER COMMON COVER PLATE

X/Y — DUPLEX RECEPTACLE

X/Y — SIMPLEX RECEPTACLE

X/Y — RECESSED FLOOR MOUNTED BOX, QUANTITY AND TYPE OF RECEPTACLES AS INDICATED

SUBSCRIPTS:

X - INDICATES TYPE
- GFCI - GROUND FAULT CIRCUIT INTERRUPTER
- IG - ISOLATED GROUND
- TR - TAMPER RESISTANT
- PLH - PLUG LOAD HALF CONTROLLED
- PLD - PLUG LOAD DUAL CONTROLLED
- USB - USB CHARGING STATION
- SPD - SURGE PROTECTIVE DEVICE

Y - INDICATES CIRCUIT NUMBER FROM PANELBOARD

CONDUIT TURNING UP

CONDUIT TURNING DOWN

(#X) — HOMERUN TO SOURCE (E.G. PANELBOARD, MCC)
NUMBER IN PARENTHESES REPRESENTS CONDUCTOR SIZE OTHER THAN #12
SINGLE PHASE: 2#12, 1#12G IN 3/4"C
THREE PHASE: 3#12, 1#12G IN 3/4"C
UNLESS OTHERWISE NOTED, CONDUCTOR SIZE IS FOR ENTIRE CIRCUIT, SOURCE TO LAST DEVICE. ALSO, SEE ONE LINE DIAGRAM FOR CIRCUIT REQUIREMENTS

CONDUIT CONNECTION TO EQUIPMENT

CIRCUIT RUN BETWEEN DEVICES EXPOSED IN NON-ARCHITECTURALLY FINISHED AREAS; CONCEALED IN ARCHITECTURALLY FINISHED AREAS. CONDUIT AND CONDUCTOR SIZES SHALL BE THE SAME AS THE HOMERUN FOR THE CIRCUIT.

CONDUIT RUN BETWEEN DEVICES CONCEALED IN NON-ARCHITECTURALLY FINISHED AREAS OR UNDER FLOOR SLAB. CONDUIT AND CONDUCTOR SIZES SHALL BE THE SAME AS THE HOMERUN FOR THE CIRCUIT.

(#X) — CIRCUIT HASH MARKS (WHEN INDICATED); LONG, SHORT, SINGLE DOT, AND DOUBLE DOT REPRESENT PHASE, NEUTRAL, EQUIPMENT GROUND, AND ISOLATED EQUIPMENT GROUND, RESPECTIVELY. X REPRESENTS CONDUCTOR SIZE OTHER THAN #12 IN 3/4" CONDUIT.

CIRCUIT CONTINUATION

CONDUIT STUBBED OUT AND CAPPED

CORD AND PLUG CONNECTION

XXX OR XXX — CONDUIT TAG OR CIRCUIT NUMBER - WIRE AND CONDUIT SIZE AS SPECIFIED IN CIRCUIT SCHEDULE ON THE SHEETS

GROUND CABLE

GROUND ROD

[DB-###] — ELECTRICAL DUCT BANK CALLOUT (### INDICATES DUCT BANK NUMBER)

GENERAL NOTES:

1. THIS IS A STANDARD ELECTRICAL SYMBOLOGY SHEET. NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT.
2. SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.
3. SEE P&ID LEGEND SHEET FOR PROJECT SPECIFIC EQUIPMENT SYMBOLS, EQUIPMENT ABBREVIATIONS, AND PIPING SYSTEM ABBREVIATIONS.

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B	40% REVIEW	BB	2021.09.08

Permit/Seal
REGISTERED PROFESSIONAL ENGINEER 57142 OREGON DONALD E. BEST

Client/Project
City of Beaverton
PHASE - II
SEXTON MOUNTAIN
PUMP STATION UPGRADE
Beaverton, Oregon

Project No.: 2002006149
File Name: N/A
Scale: NO SCALE

HF	DB		2021.09.08
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
LEGEND - I

Revision:
Drawing No.
E-001

9/7/2021 2:43:21 PM
ORIGINAL SHEET - ANSI D

COMMUNICATION SYMBOLOGY

- WALL MOUNTED TELEPHONE OUTLET
- WALL MOUNTED DATA OUTLET
- WALL MOUNTED COMBINATION TELEPHONE AND DATA OUTLET
- RECESSED FLOOR MOUNTED TELEPHONE OUTLET
- RECESSED FLOOR MOUNTED DATA OUTLET
- RECESSED FLOOR MOUNTED COMBINATION TELEPHONE AND DATA OUTLET

SECURITY SYMBOLOGY

- DOOR POSITION SWITCH
- COMBINATION ELECTRIC DOOR STRIKE AND POSITION SWITCH
- CR — PROXIMITY CARD READER
- EB — ELECTRIFIED EXIT BAR
- M — DUAL TECHNOLOGY MOTION DETECTOR
- REQUEST TO EXIT MOTION DETECTOR
- REQUEST TO EXIT PUSH BUTTON
- G — GLASS BREAK DETECTOR
- PTZ — CCTV CAMERA
  PAN/TILT/ZOOM WHEN INDICATED
- SEC — SECURITY EQUIPMENT CABINET
- R — REMOTE KEYPAD/CONTROL STATION

EMERGENCY ALARM SYMBOLOGY

- E — ALARM BELL
- E — ALARM HORN
- E — ALARM FLASHING LIGHT
- E — ALARM BELL AND FLASHING LIGHT COMBINATION UNIT
- E — ALARM HORN AND FLASHING LIGHT COMBINATION UNIT
- E — PUSHBUTTON OR PULLSTATION WITH ALARM FLASHING LIGHT

SITE SYMBOLOGY

- EXTERIOR PAD MOUNTED TRANSFORMER
- POLE - MOUNTED TRANSFORMER
- X / Y — ELECTRICAL HANDHOLE OR MANHOLE
  Y- MHX OR HHX
  X - INDICATES SEQUENCE NUMBER
- X / Y — POLE/STANCHION MOUNTED FLOOD LUMINAIRE, LAMP TYPE AS SPECIFIED
- X / Y — POLE MOUNTED AREA OR ROADWAY LUMINAIRE, LAMP TYPE AS SPECIFIED
- X / Y — HIGH MAST LIGHTING, NUMBER OF LUMINAIRES AS SPECIFIED

  LIGHTING FIXTURE SUBSCRIPTS:
  X - INDICATES LUMINAIRE TYPE PER LUMINAIRE SCHEDULE
  Y - INDICATES CIRCUIT NUMBER FROM PANELBOARD
- POWER POLE
- DOWNGUY
- E — UNDERGROUND (UNO) ELECTRICAL AND COMMUNICATION SYSTEMS PATHWAY
- OHE — OVERHEAD ELECTRICAL AND COMMUNICATION SYSTEMS PATHWAY

CONTROL SYMBOLOGY

- ELECTRICAL CONNECTION
- OR OR — NO ELECTRICAL CONNECTION
- SV OR — SOLENOID VALVE
- X / Y — CONTROL/RELAY COIL:
  X-INDICATES TYPE
  Y-INDICATES LOOP NUMBER, WHEN USED

  TYPES:
  CR-CONTROL RELAY
  PC-PHOTOCELL
  DP-DEFINITE PURPOSE
  M-MOTOR STARTER
  TC-TIME CLOCK
  LC-LIGHTING CONTACTOR
  TR-TIMING RELAY
- NORMALLY OPEN CONTACT (N.O.)
- NORMALLY CLOSED CONTACT (N.C.)
- NORMALLY OPEN TIME DELAY RELAY CONTACT WITH TIME DELAY ON CLOSING AFTER COIL IS ENERGIZED
- NORMALLY CLOSED TIME DELAY RELAY CONTACT WITH TIME DELAY ON OPENING AFTER COIL IS ENERGIZED
- NORMALLY OPEN TIME DELAY RELAY CONTACT WITH TIME DELAY ON OPENING AFTER COIL IS DE-ENERGIZED
- NORMALLY CLOSED TIME DELAY RELAY CONTACT WITH TIME DELAY ON CLOSING AFTER COIL IS DE-ENERGIZED
- NORMALLY OPEN TEMPERATURE SWITCH; CLOSE ON RISING TEMPERATURE
- NORMALLY CLOSED TEMPERATURE SWITCH; OPEN ON RISING TEMPERATURE
- NORMALLY OPEN FLOW SWITCH; CLOSE ON INCREASING FLOW
- NORMALLY CLOSED FLOW SWITCH; OPEN ON INCREASING FLOW
- NORMALLY OPEN LEVEL SWITCH, CLOSE ON RISING LEVEL
- NORMALLY CLOSED LEVEL SWITCH, OPEN ON RISING LEVEL
- NORMALLY OPEN PRESSURE SWITCH, CLOSE ON INCREASING PRESSURE
- NORMALLY CLOSED PRESSURE SWITCH, OPEN ON INCREASING PRESSURE
- NORMALLY OPEN LIMIT SWITCH, CLOSE ON REACHING LIMIT
- NORMALLY CLOSED LIMIT SWITCH, OPEN ON REACHING LIMIT
- MICROPROCESSOR (PLC, RTU, ETC.) OUTPUT
- MICROPROCESSOR (PLC, RTU, ETC.) INPUT
- FIELD WIRING EXTERNAL TO CONTROL PANEL
- OFF / HAND / AUTO / XOO / OOX — 3 POSITION SELECTOR SWITCH, MAINTAINED CONTACTS; UNLESS OTHERWISE NOTED, 2-POSITION SIMILAR
- NORMALLY OPEN PUSHBUTTON, MOMENTARY CONTACT UNLESS OTHERWISE NOTED
- NORMALLY CLOSED PUSHBUTTON, MOMENTARY CONTACT UNLESS OTHERWISE NOTED

CONTROL SYMBOLOGY

- X — INDICATING LIGHT: X INDICATES LENS COLOR
- X — PUSH TO TEST INDICATING LIGHT: X INDICATES LENS COLOR

  LENS COLORS:

  R - RED
  G - GREEN
  B - BLUE
  Y - YELLOW
  W - WHITE
  A - AMBER
- THERMAL OVERLOAD ELEMENT
- OL / (X) — THERMAL OVERLOAD RELAY CONTACT. WHEN SHOWN X INDICATES QUANTITY.
- CPT — CONTROL POWER TRANSFORMER (CPT)
- RTM — RUN TIME METER

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Issued	By	Appd	YYYY.MM.DD
A	DESIGN DEVELOPMENT	BB	BB	2021.05.31
B	60% REVIEW	BB	BB	2021.09.08

REGISTERED PROFESSIONAL ENGINEER
57142
OREGON
JULY 11, 2008
DONALD E. BEST

Client/Project
City of Beaverton

PHASE - II
SEXTON MOUNTAIN
PUMP STATION UPGRADE
Beaverton, Oregon

Project No.: 2002006149
File Name: N/A

Scale: NO SCALE

Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
HF	DB		2021.09.08

Title
LEGEND - II

Revision:

Drawing No.
E-002

9/7/2021 2:43:21 PM

ORIGINAL SHEET - ANSI D

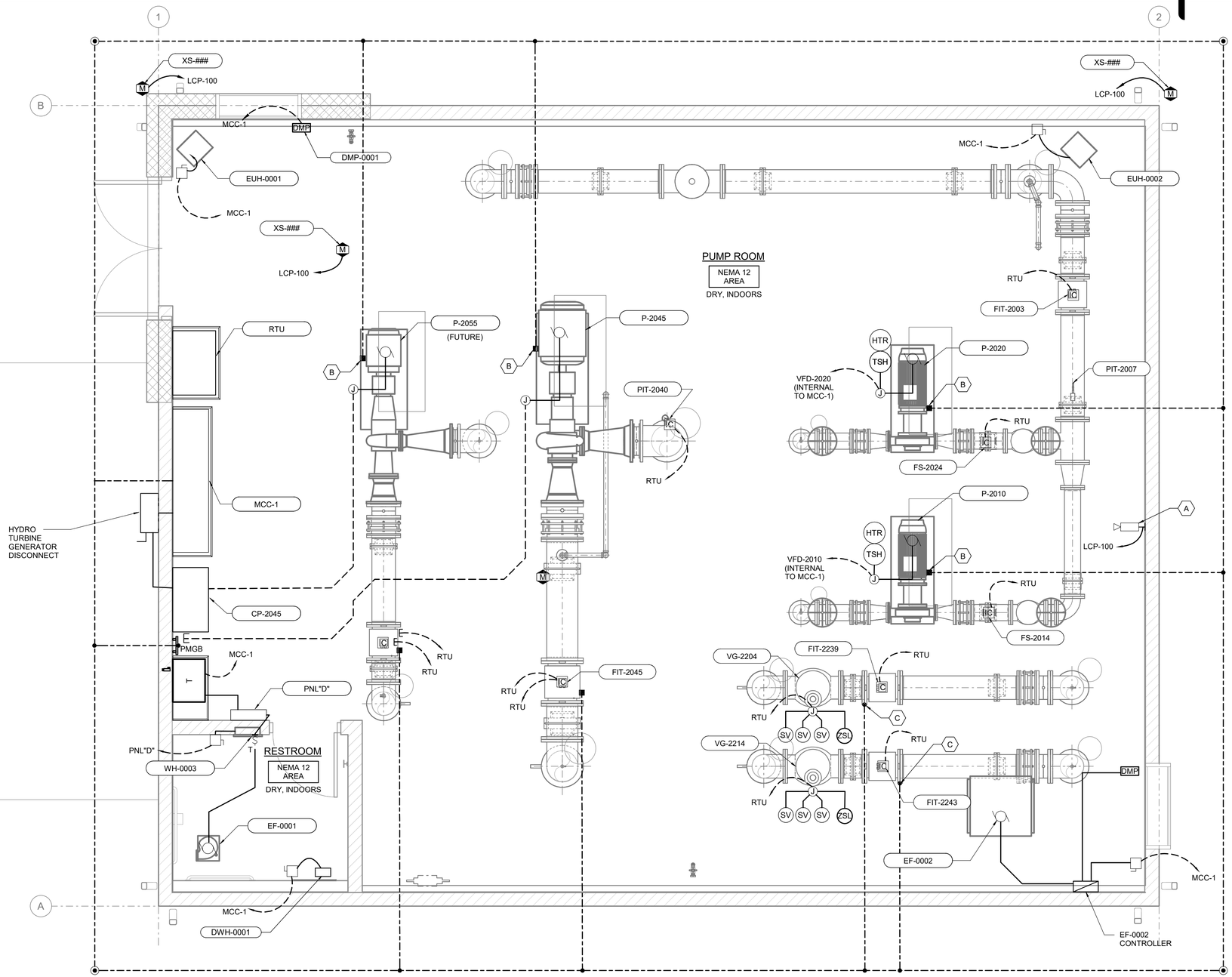
SHEET KEYNOTES

A. VIDEO CAMERA.

B. BOND TO EQUIPMENT FRAME.

C. BOND FLOW SENSOR FLANGE AND GROUND RINGS ACCORDING TO FLOWMETER MANUFACTURER INSTRUCTIONS.

Note: This sheet is included in the Land Use drawing submittal package because exterior lights will be tied to the motion control sensors which are shown on this sheet. Motion control sensors are tied into a Local Control Panel (LCP) which can be used to customize lighting functions.



PLAN

SCALE: 3/8" = 1'-0"

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Revision

REGISTERED PROFESSIONAL ENGINEER 57142 OREGON JULY 11, 1980 DONALD E. BEST

Client/Project
City of Beaverton

PHASE - II
SEXTON MOUNTAIN
PUMP STATION UPGRADE
Beaverton, Oregon

Project No.: 2002006149

File Name: N/A

Scale: 3/8" = 1'-0"

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Title
POWER AND INSTRUMENTATION PLAN

Revision:

Drawing No.
E-101

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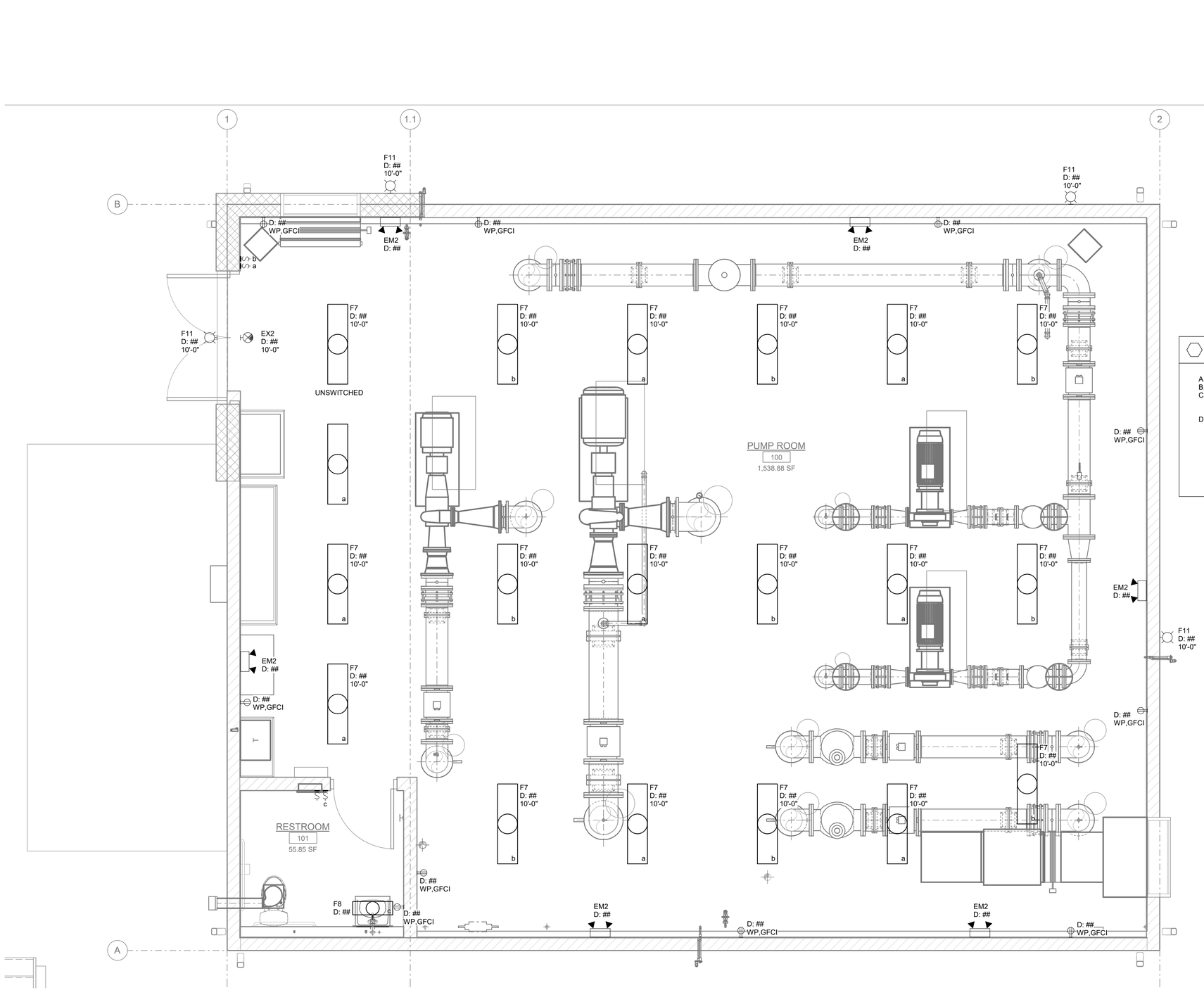
ORIGINAL SHEET - ANSI D



SHEET KEYNOTES

A. GENERAL SHEET KEYNOTES
B. GENERAL SHEET KEYNOTES
C. GENERAL SHEET KEYNOTES
USE (CTRL+SHIFT THEN ENTER) TO SKIP A LINE AND CONTINE TO LETTER

D. GENERAL SHEET KEYNOTES

PLAN

SCALE: 3/8" = 1'-0"

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			Revision
			By
			Appd
			YYYY.MM.DD
B	BB	BB	2021.09.08
A	BB	BB	2021.05.31
	A	DESIGN DEVELOPMENT	Issued
	B	60% REVIEW	

REGISTERED PROFESSIONAL ENGINEER
57142
OREGON
JULY 11, 2008
DONALD E. BEST

Client/Project
City of Beaverton

PHASE - II
SEXTON MOUNTAIN
PUMP STATION UPGRADE
Beaverton, Oregon

Project No.: 2002006149
File Name: N/A
Scale: 3/8" = 1'-0"

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Title
LIGHTING AND
RECEPTACLE PLAN

Revision:
Drawing No.
E-102

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ORIGINAL SHEET - ANSI D

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER - SERIES	DESCRIPTION	LAMP DATA	VOLTAGE	MAX. INPUT WATTAGE	MOUNTING TYPE	MOUNTING HEIGHT	NOTES
F7	LITHONIA - FEM LED	4' LED LOW-PROFILE ENCLOSED AND GASKETED INDUSTRIAL: FIBERGLASS HOUSING. FROSTED ACRYLIC LENSE. FIXED OUTPUT DRIVER. UL LISTED FOR WET LOCATIONS	80 CRI, 3500K, 4,000 LUMENS NOMINAL	MVOLT	24	PENDANT	AS INDICATED	--
F8	LITHONIA - FMVCCL	LED VANITY LIGHT: CONTEMPORARY CYLINDER VANITY, 2' NOMINAL LENGTH, BRUSHED NICKEL, UL LISTED FOR DAMP LOCATIONS	80 CRI, 4000K, 1,500 LUMENS NOMINAL	MVOLT	26	WALL	7'-0" AFF	--
F11	LITHONIA - WSQ LED	ARCHITECTURAL WALL SCONCE: FOR EMERGENCY EGRESS LIGHTING WITH SURGE PROTECTOR, PRECISION MOLDED ACRYLIC LENSE, DIE-CAST ALUMINUM HOUSING, CORRO=SION RESISTANT. INCLUDED INTEGRAL 90 MINUTE BATTERY BACK-UP. BLACK FINISH, UL LISTED FOR WET LOCATIONS.	70 CRI, 4000K, 2,200 LUMENS NOMINAL	MVOLT	20	WALL	10'-0" AFG UNLESS NOTED OTHERWISE	--
F12	LITHONIA - WDGE2 LED P1	ARCHITECTURAL WALL SCONCE: TYPE I SHORT DISTRIBUTION, SURGE PROTECTOR, PRECISION MOLDED ACRYLIC LENSE, DIE-CAST ALUMINUM HOUSING, CORROSION RESISTANT. BLACK FINISH, UL LISTED	70 CRI, 4000K, 1,200 LUMENS NOMINAL	MVOLT	11	WALL	10'-0" AFG UNLESS NOTED OTHERWISE	--
F13	LITHONIA - WDGE2 LED P3	ARCHITECTURAL WALL SCONCE: TYPE IV MEDIUM DISTRIBUTION, SURGE PROTECTOR, PRECISION MOLDED ACRYLIC LENSE, DIE-CAST ALUMINUM HOUSING, CORROSION RESISTANT. BLACK FINISH, UL LISTED	70 CRI, 4000K, 3,000 LUMENS NOMINAL	MVOLT	32	WALL	10'-0" AFG UNLESS NOTED OTHERWISE	
EX2	LITHONIA - LV SERIES DUAL LITE - LN4X SERIES	INDUSTRIAL GRADE EXIT FOR WET LOCATIONS: NEMA 4X POLYCARBONATE HOUSING WITHWHITE FACE AND RED LETTERING. NICKEL CADNIUM BATTERY.	LED STRIP GREEN	120 V	5	AS INDICATED	7'-6" AFF	--
EM2	LITHONIA - WLTU LED	DUAL-HEAD WET LOCATION EMERGENCY LIGHT: CORROSION RESISTANT ENCLOSURE. MAINTENANCE FREE LEAD CALCIUM BATTERY. UL LISTED FOR WET LOCATIONS.	PAR STYLE 1.9 WATT WHITE LED LAMPS	120 V	9	WALL MOUNTED	7'-6" AFF	--

F11 - Lithonia WSQ

F12 and F13 - Lithonia WDGE2

INTERIOR LIGHTING POWER DENSITY CALCULATIONS (PER ASHRAE 90.1-2016)

ROOM IDENTIFICATION		SPACE TYPE (PER TABLE 9.6.1)	AREA (ft2) < A >	ALLOWANCE LPD (w/ft2) < B >	ALLOWED POWER (watts) < A * B >	DESIGNED POWER (watts)	LIGHTING CONTROL FUNTIONS (PER TABLE 9.6.1)
00-101	CONTROL ROOM	CONFERENCE/MEETING/ MULTIPURPOSE ROOM	762	1.07	815	319.2	LOCAL CONTROL / MANUAL ON / BILEVEL LIGHTING CONTROL / AUTOMATIC DAYLIGHT RESPONSE CONTROLS FOR SIDELIGHTING / AUTOMATIC FULL OFF
00-102	RESTROOM	RESTROOM	58	0.85	49	44	LOCAL CONTROL / AUTOMATIC FULL OFF
00-103	RESTROOM	RESTROOM	73	0.85	62	62	LOCAL CONTROL / AUTOMATIC FULL OFF
00-104	SCADA/NETWORK ROOM	COMPUTER ROOM	177	1.33	235	95.2	LOCAL CONTROL / MANUAL ON / BILEVEL LIGHTING CONTROL / AUTOMATIC FULL OFF
00-105	ELECTRICAL ROOM	ELECTRICAL/MECHANICAL ROOM	501	0.43	215	190.4	LOCAL CONTROL / BILEVEL LIGHTING CONTROL
00-106	STORAGE ROOM	STORAGE ROOM (> 1000 ft2)	1,004	0.46	462	238	LOCAL CONTROL / MANUAL ON / AUTOMATIC PARTIAL OFF / AUTOMATIC FULL OFF
00-107	CHEMICAL ROOM	MANUFACTURING FACILITY (EQUIPMENT ROOM)	1,004	0.65	653	357	LOCAL CONTROL / BILEVEL LIGHTING CONTROL
00-108	PUMP ROOM	MANUFACTURING FACILITY (EQUIPMENT ROOM)	1,182	0.65	768	381.28	LOCAL CONTROL / BILEVEL LIGHTING CONTROL
00-109	STORAGE	STORAGE ROOM (< 50 ft2)	25	0.97	24	18	LOCAL CONTROL / AUTOMATIC FULL OFF

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Issued

REGISTERED PROFESSIONAL ENGINEER
57142
OREGON
JULY 11, 2008
DONALD E. BEST

Client/Project
City of Beaverton

PHASE - II
SEXTON MOUNTAIN
PUMP STATION UPGRADE
Beaverton, Oregon

Project No.: 2002006149

File Name: 06149E-607

Scale: NO SCALE

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Title
LIGHTING
FIXTURE AND DENSITY
SCHEDULES

Revision:

Drawing No.
E-607

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ORIGINAL SHEET - ANSI D

SHEET NOTES

1. ALL CONDUIT ROUTING SHALL BE AS SUCH TO AVOID INTERFERENCE WITH OVERHEAD CRANE OPERATION AND AS SUCH TO AVOID BLOCKING THE SKYLIGHTS.

SHEET KEYNOTES

A. VIDEO CAMERA. OWNER FURNISHED, CONTRACTOR INSTALLED ON EXISTING CONCRETE HOUSEKEEPING PAD. EXISTING SWITCHBOARD SHALL BE REMOVED AND NEW VFD ENCLOSURES SHALL BE INSTALLED IN THE SPACE THAT IS VACATED BY THE SWITCHBOARD.

B. PANELBOARD, 480Y/277V, 3PH, 4W, SIEMENS PANEL TYPE S2.

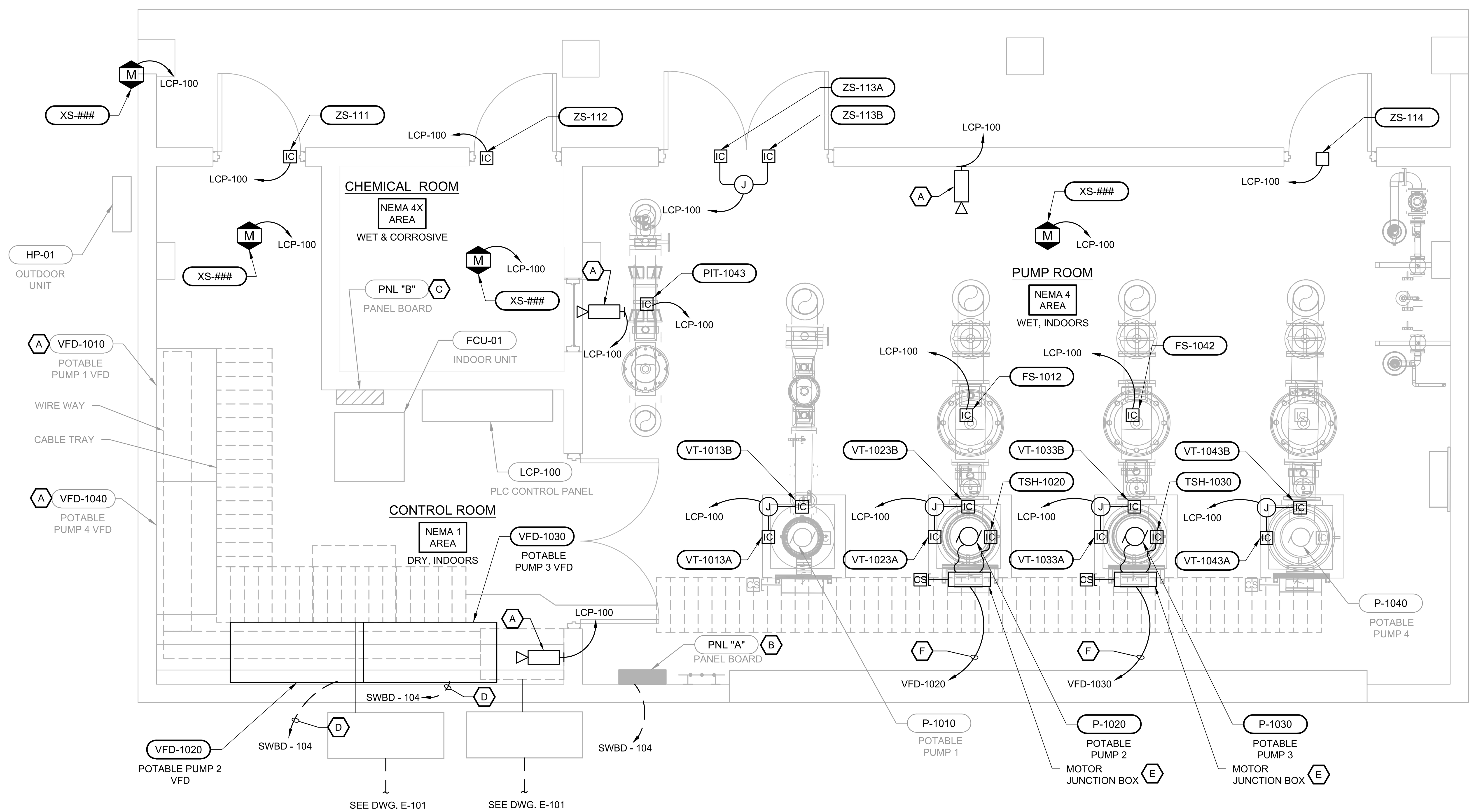
C. PANELBOARD, 208Y/120V, 3PH, 4W, SIEMENS PANEL TYPE S1.

D. VFD OR INPUT POWER CIRCUITS SHALL BE ROUTED THROUGH THE WIREWAY AND TO THE POWER PULL BOX TO THE EXTERIOR UNDERGROUND CONDUIT.

E. REPLACE EXISTING MOTOR JUNCTION WITH NEW JUNCTION BOX OF APPROPRIATE SIZE FOR NEW CONDUIT PENETRATIONS.

F. INSTALL CONDUIT FROM MOTOR JUNCTION BOX TO CABLE TRAY AND INSTALL CONDUIT FROM CABLE TRAY TO THE VFD ENCLOSURE FOR ROUTING OF THE PUMP POWER CIRCUITS.

Note: This sheet is included in the Land Use drawing submittal package because exterior lights will be tied to the motion control sensors which are shown on this sheet. Motion control sensors are tied into a Local Control Panel (LCP) which can be used to customize lighting functions.



PLAN

SCALE: 3/8" = 1'-0"

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B 60% REVIEW AO BB 2021.09.08
A DESIGN DEVELOPMENT BB 2021.05.31

REGISTERED PROFESSIONAL ENGINEER 57142 OREGON DONALD E. BEST

Client/Project
City of Beaverton

PHASE - II
SEXTON MOUNTAIN
PUMP STATION UPGRADE
Beaverton, Oregon

Project No.: 2002006149
File Name: 06149-1E-101
Scale: 3/8" = 1'-0"

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Title
PUMP HOUSE
POWER AND
INSTRUMENTATION PLAN

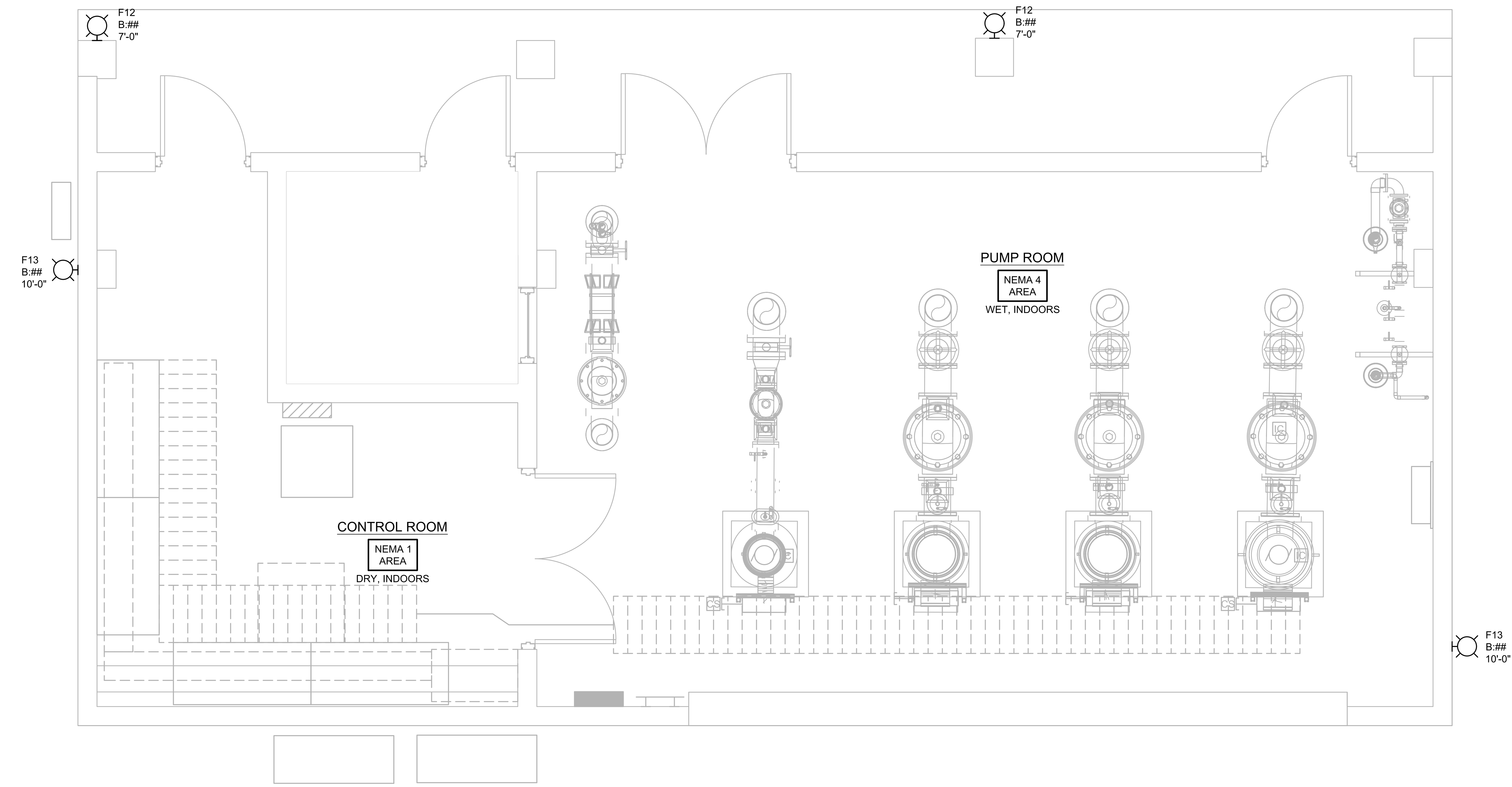
Revision:

Drawing No.
1E-101

ORIGINAL SHEET - ANSI D

SHEET NOTES

1. ALL CONDUIT ROUTING SHALL BE AS SUCH TO AVOID INTERFERENCE WITH OVERHEAD CRANE OPERATION AND AS SUCH TO AVOID BLOCKING THE SKYLIGHTS.



PLAN

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B 60% REVIEW	AO	BB	2021.09.08	
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REGISTERED PROFESSIONAL ENGINEER
57142
OREGON
DONALD E. BEST

Client/Project
City of Beaverton

PHASE - II
SEXTON MOUNTAIN
PUMP STATION UPGRADE
Beaverton, Oregon

Project No.: 2002006149

File Name: 06149-1E-102

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Title

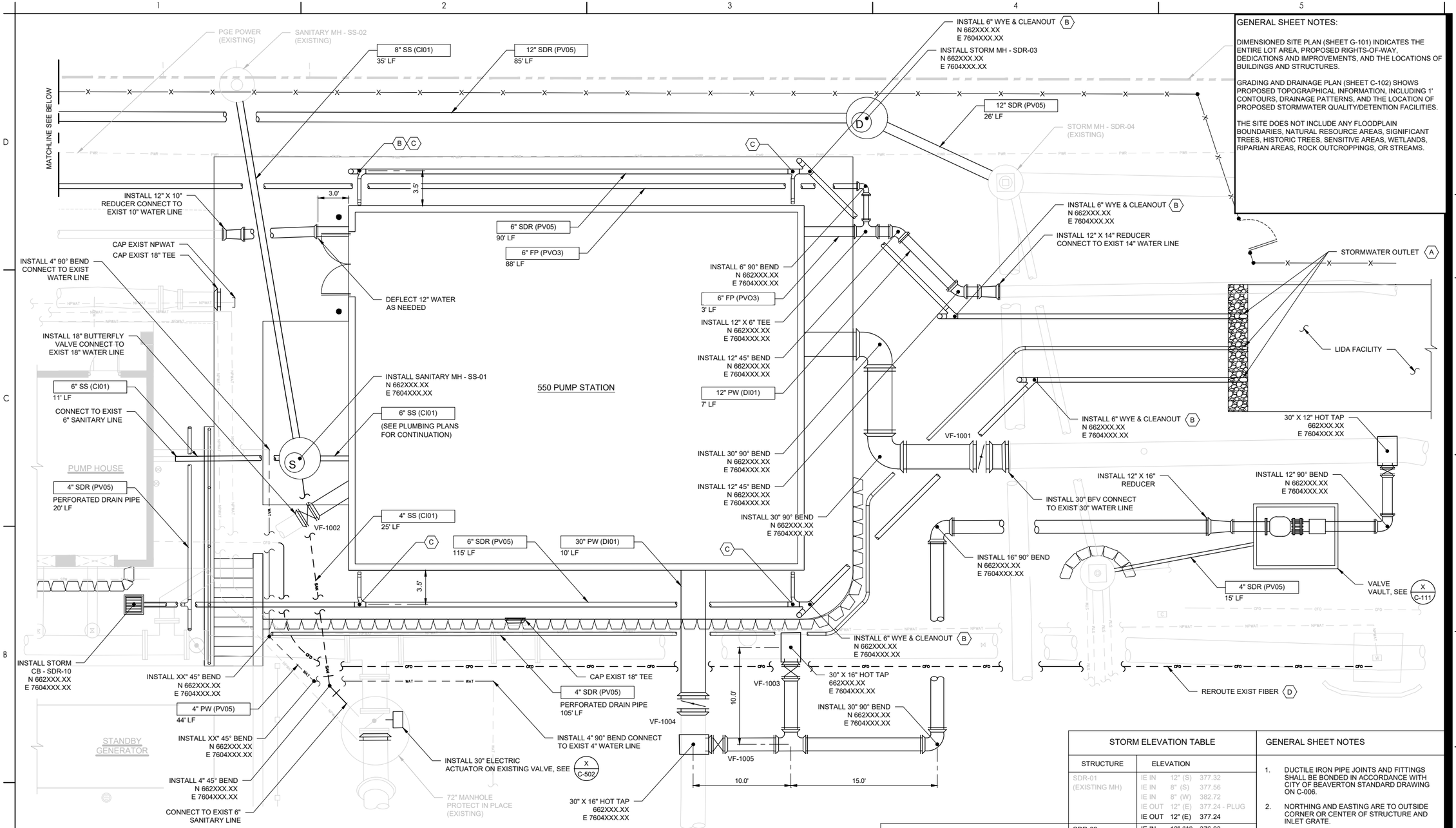
PUMP HOUSE
LIGHTING PLAN

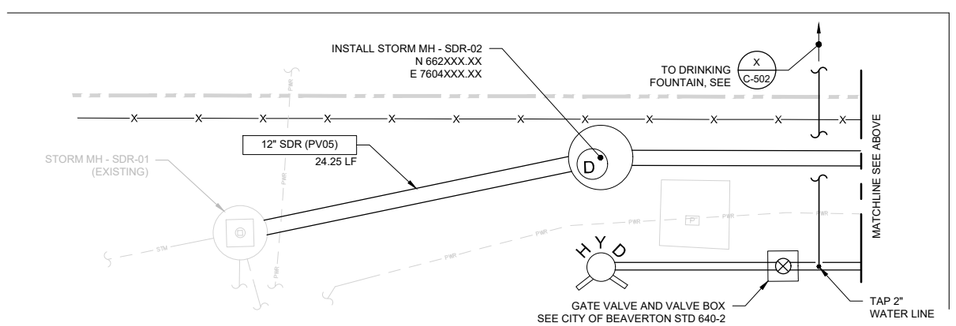
Revision:

Drawing No.

1E-102

ORIGINAL SHEET - ANSI D





GENERAL SHEET NOTES:

DIMENSIONED SITE PLAN (SHEET G-101) INDICATES THE ENTIRE LOT AREA, PROPOSED RIGHTS-OF-WAY, DEDICATIONS AND IMPROVEMENTS, AND THE LOCATIONS OF BUILDINGS AND STRUCTURES.

GRADING AND DRAINAGE PLAN (SHEET C-102) SHOWS PROPOSED TOPOGRAPHICAL INFORMATION, INCLUDING 1' CONTOURS, DRAINAGE PATTERNS, AND THE LOCATION OF PROPOSED STORMWATER QUALITY/DETENTION FACILITIES.

THE SITE DOES NOT INCLUDE ANY FLOODPLAIN BOUNDARIES, NATURAL RESOURCE AREAS, SIGNIFICANT TREES, HISTORIC TREES, SENSITIVE AREAS, WETLANDS, RIPARIAN AREAS, ROCK OUTCROPPINGS, OR STREAMS.

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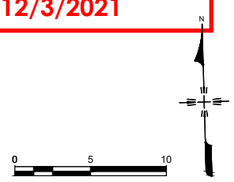
Planning Division
12/3/2021



STORM ELEVATION TABLE

STRUCTURE	ELEVATION
SDR-01 (EXISTING MH)	IE IN 12" (S) 377.32 IE IN 8" (S) 377.56 IE IN 8" (W) 382.72 IE OUT 12" (E) 377.24 - PLUG IE OUT 12" (E) 377.24
SDR-02 (PROPOSED MH)	IE IN 12" (W) 376.83 IE OUT 12" (E) 376.63
SDR-03 (PROPOSED MH)	IE IN 12" (W) 374.61 IE OUT 12" (E) 374.41
SDR-04 (EXISTING MH)	IE IN 12" (N) 374.34 IE IN 12" (W) 371.98 - PLUG IE IN 4" (SW) 375.18 IE IN 24" (SW) 370.88 IE IN 12" (SE) 372.90 IE OUT 24" (E) 370.88
SDR-10 (PROPOSED CB)	IE IN 6" (W) 385.33 IE OUT 6" (E) 385.13

SEWER ELEVATION TABLE

STRUCTURE	ELEVATION
SS-01 (PROPOSED MH)	IE IN 6" (E) 380.90 IE IN 4" (S) 380.90 IE IN 6" (W) 380.90 IE OUT 8" (N) 380.70
SS-02 (EXISTING MH)	IE IN 8" (S) 380.00 IE IN 6" (S) 379.98 - PLUG IE IN 6" (SE) 379.98 - PLUG IE OUT 8" (N) 374.91

GENERAL SHEET NOTES

1. DUCTILE IRON PIPE JOINTS AND FITTINGS SHALL BE BONDED IN ACCORDANCE WITH CITY OF BEAVERTON STANDARD DRAWING ON C-006.
2. NORTHING AND EASTING ARE TO OUTSIDE CORNER OR CENTER OF STRUCTURE AND INLET GRATE.
3. ALL BURIED DI PIPE TO BE RESTRAINED JOINT. EXPOSED JOINTS IN VAULTS AND STRUCTURES SHALL BE FLANGED.

SHEET KEYNOTES

A. STORMWATER OUTLET CUT END TO MATCH SLOPE, DISCHARGE TO RIP RAP CLASS 50.

B. CLEANOUT PER CITY OF BEAVERTON STANDARD DRAWING 340 ON C-XX.

C. CONNECT TO ROOF DOWNSPOUT.

D. REROUTE AND KEEP EXISTING FIBER OPTIC LINE IN SERVICE. SEE ELECTRICAL DRAWING E-XXX.

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A		BB	2021.05.31
B		BB	2021.09.08
C		BB	2021.12.06

REGISTERED PROFESSIONAL ENGINEER
65179
OREGON
11/14/2000
BRYAN D. BLACK
EXPIRATION DATE:

Client/Project
City of Beaverton

PHASE - 2
SEXTON MOUNTAIN
PUMP STATION UPGRADE
Beaverton, Oregon

Project No.: 2002006149
File Name: 06149C-106
Scale: 1" = 5'

SK	RS	CG	2021.12.06
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Title
CIVIL
UTILITY PLAN

Revision:

Drawing No.
C-106