PARKING SUMMARY

USE BREAKDOWN:
EMPLOYEE/VISITOR: 34
FLEET (TRUCKS & EQUIPMENT): 59
TOTAL PROJECT SPACES: 93

EMPLOYEE/VISITOR LOT BREAKDOWN:
STANDARD SPACES: 28
ADA SPACES: 2
CARPOOL: 4

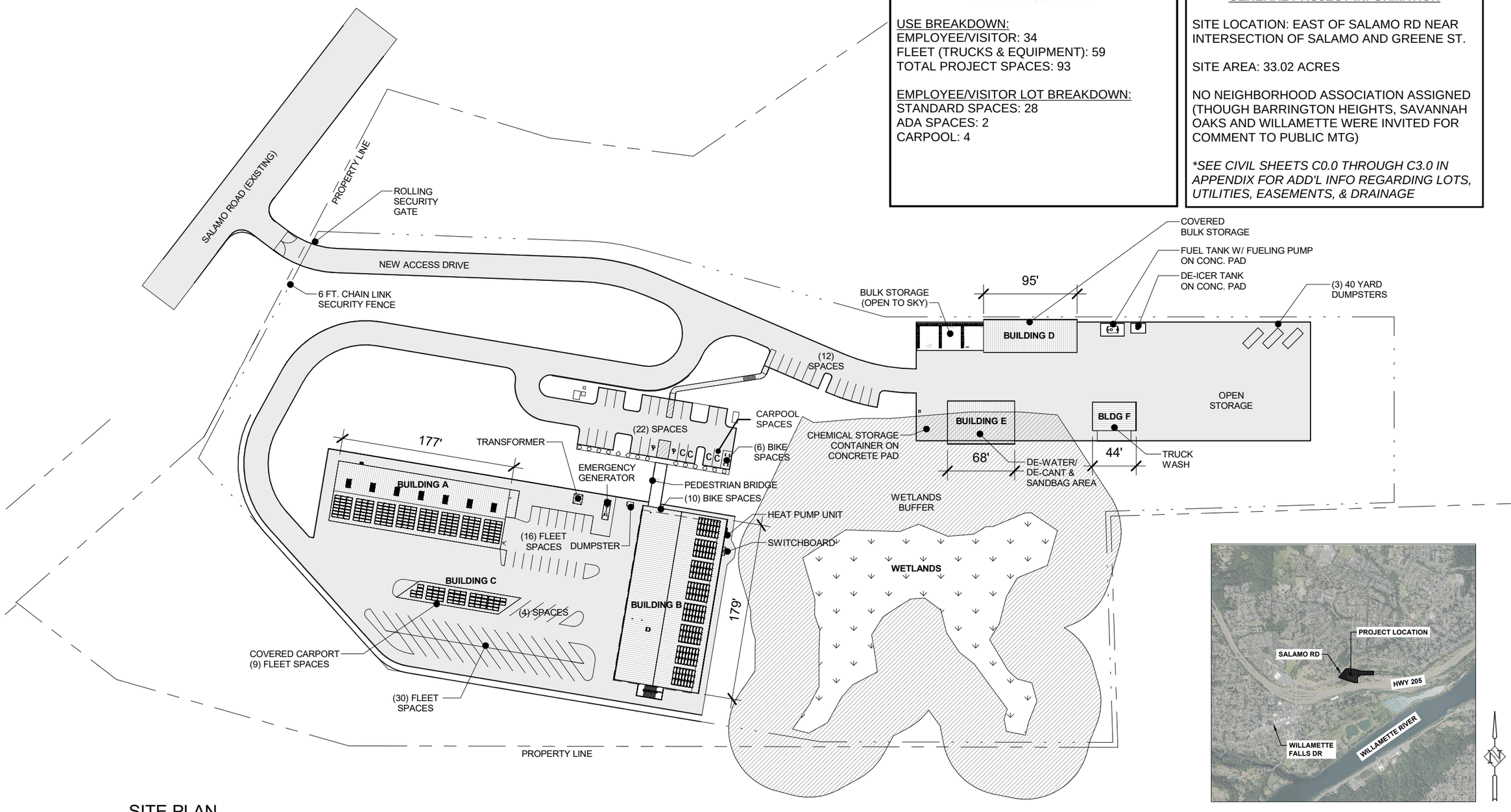
GENERAL PROJECT INFORMATION

SITE LOCATION: EAST OF SALAMO RD NEAR INTERSECTION OF SALAMO AND GREENE ST.

SITE AREA: 33.02 ACRES

NO NEIGHBORHOOD ASSOCIATION ASSIGNED (THOUGH BARRINGTON HEIGHTS, SAVANNAH OAKS AND WILLAMETTE WERE INVITED FOR COMMENT TO PUBLIC MTG)

**SEE CIVIL SHEETS C0.0 THROUGH C3.0 IN APPENDIX FOR ADD'L INFO REGARDING LOTS, UTILITIES, EASEMENTS, & DRAINAGE*



SITE PLAN
1" = 100'-0"

VICINITY MAP
NTS

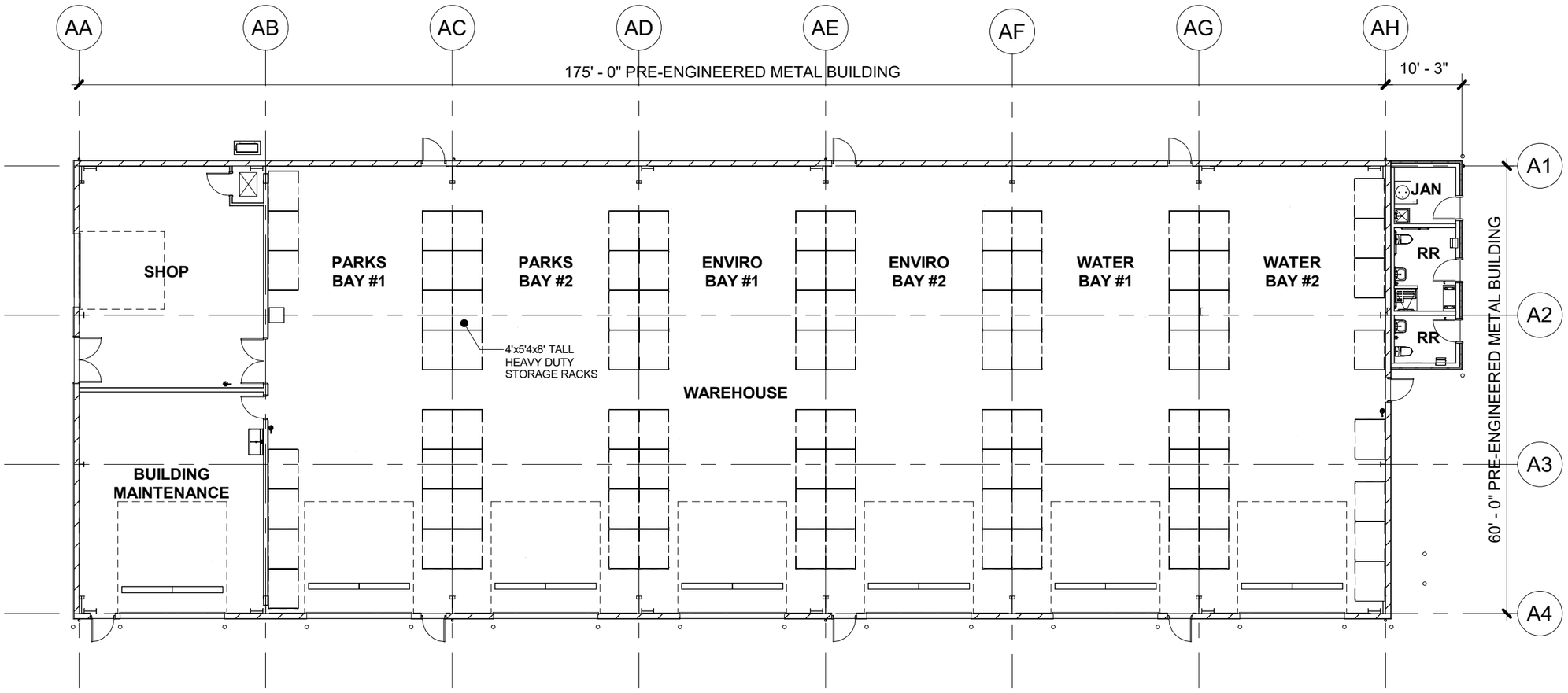
PROPOSED SITE PLAN

SHEET No:
A1.0

0' 50' 100' 200'

WEST LINN OPERATIONS COMPLEX
23028 03/20/26

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BUILDING A - FLOOR PLAN (11,142 S.F.)

1/16" = 1'-0"

BUILDING A FLOOR PLAN

SHEET No:

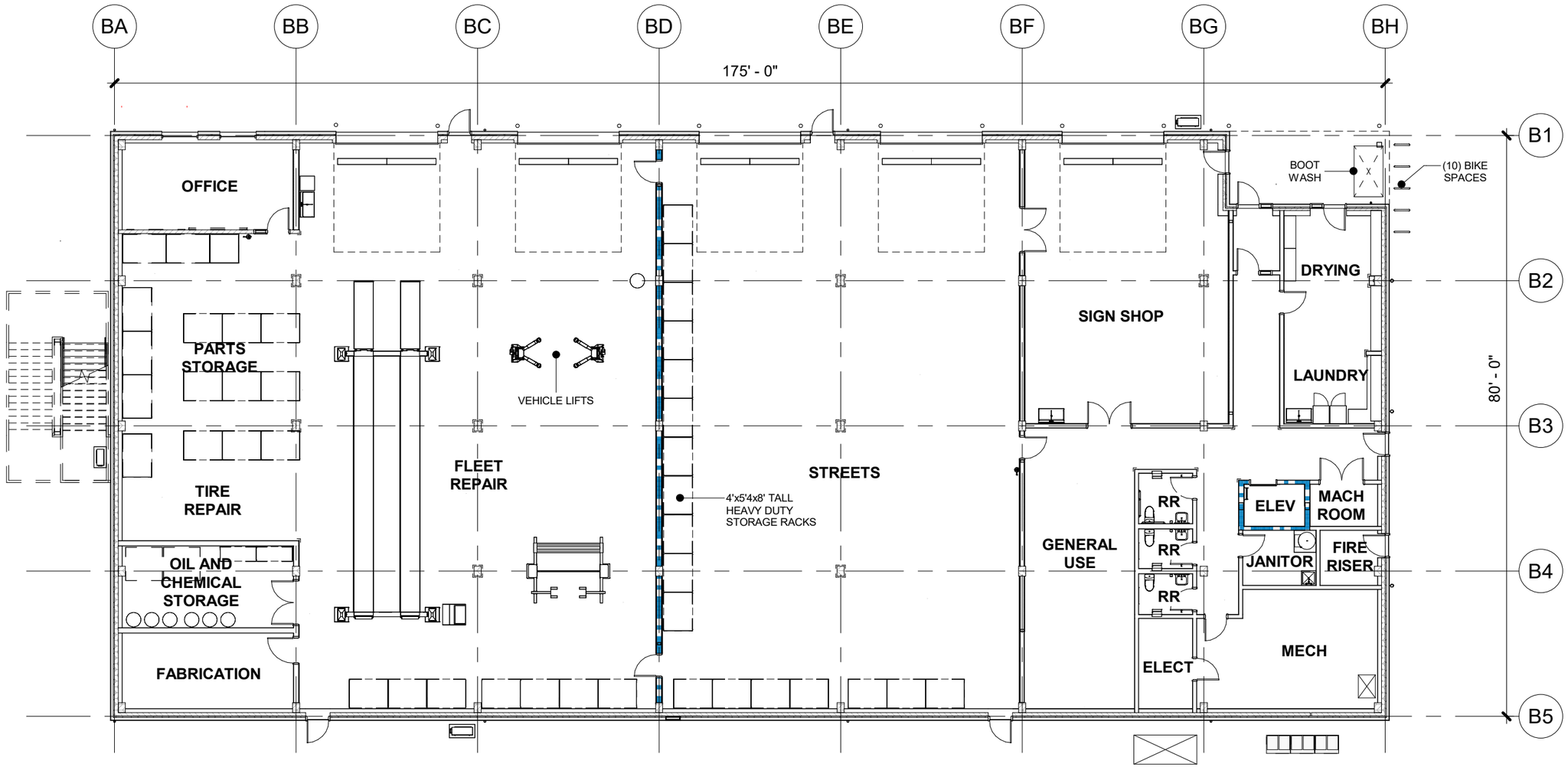
A2.1

0' 50' 100' 200'

WEST LINN OPERATIONS COMPLEX

23028 **03/20/26**

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BUILDING B - FIRST FLOOR PLAN (14,080 S.F.)
1/16" = 1'-0"

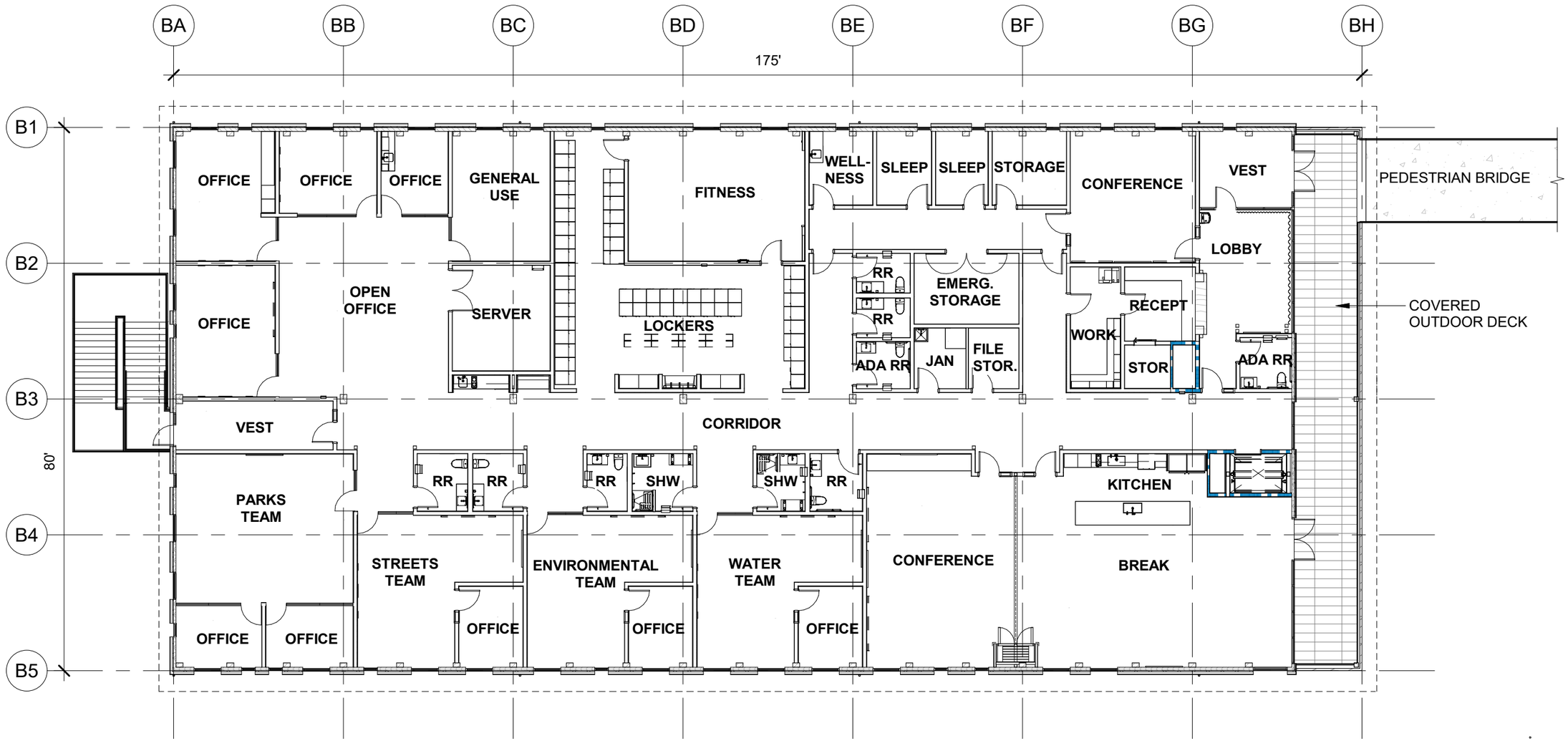
BUILDING B - FIRST FLOOR PLAN

SHEET No:
A2.2

0' 50' 100' 200'

WEST LINN OPERATIONS COMPLEX
23028 **03/20/26**

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BUILDING B - SECOND FLOOR PLAN (14,090 S.F. (DOES NOT INCLUDE PEDESTRIAN BRIDGE)

1/16" = 1'-0"

BUILDING B - SECOND FLOOR PLAN

SHEET No:

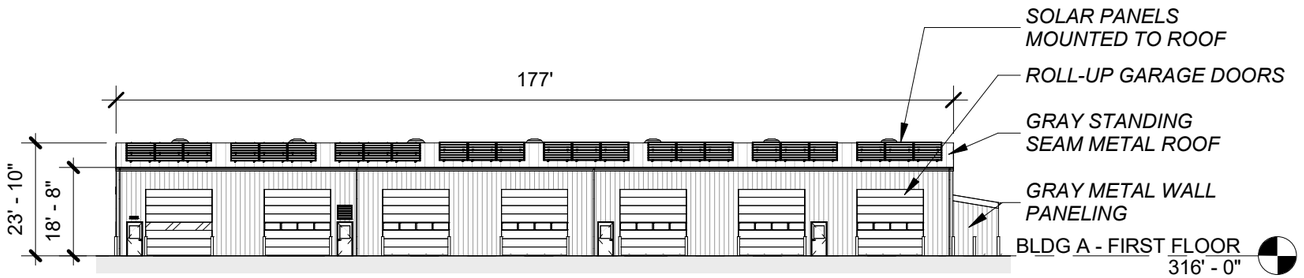
A2.3

0' 50' 100' 200'

WEST LINN OPERATIONS COMPLEX

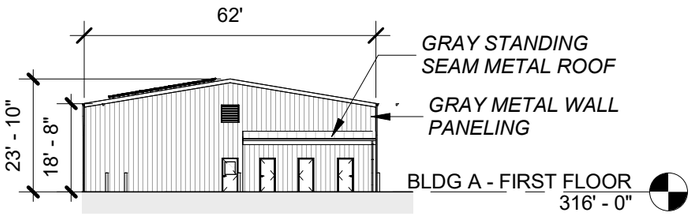
23028 **03/20/26**

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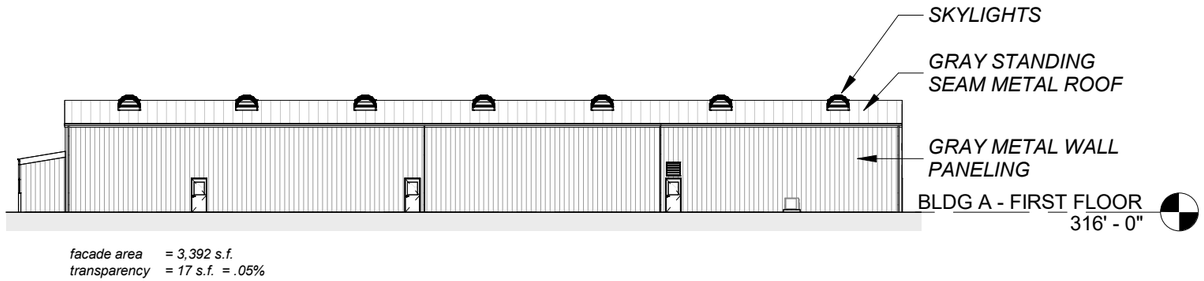
facade area = 3,392 s.f.
transparency = 194 s.f. = .6%

BUILDING A - SOUTH ELEVATION
1/32" = 1'-0"



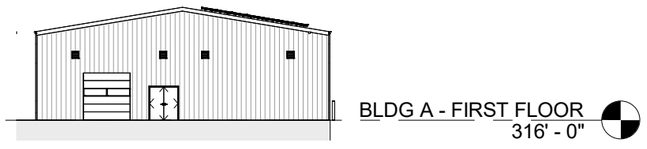
facade area = 1,308 s.f.
transparency = 6 s.f. = .5%

BUILDING A - EAST ELEVATION
1/32" = 1'-0"



facade area = 3,392 s.f.
transparency = 17 s.f. = .05%

BUILDING A - NORTH ELEVATION
1/32" = 1'-0"

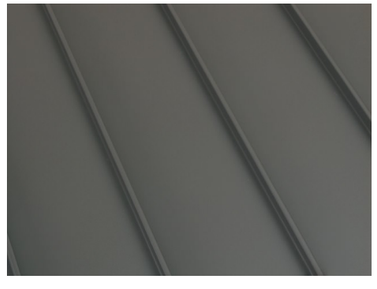


facade area = 1,308 s.f.
transparency = 16 s.f. = .1%

BUILDING A - WEST ELEVATION
1/32" = 1'-0"



ROLL-UP GARAGE DOORS - GRAY



STANDING SEAM METAL ROOF - GRAY



METAL WALL PANELING - GRAY

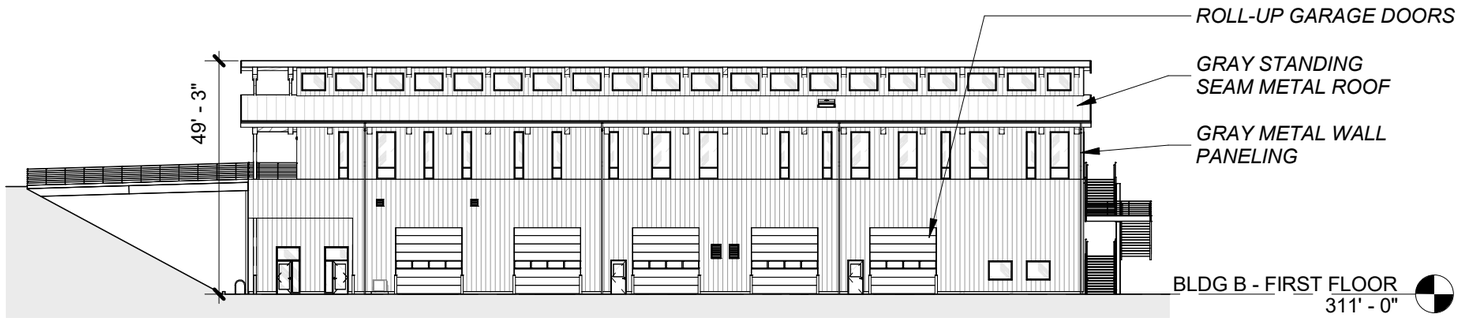
ELEVATIONS - BUILDING A

SHEET No:
A3.1

0' 50' 100' 200'

WEST LINN OPERATIONS COMPLEX
23028 03/20/26

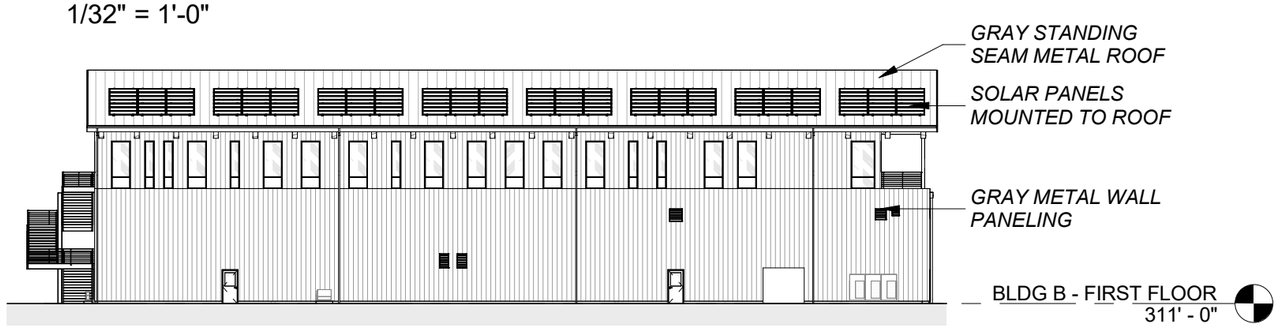
Scott Edwards Architecture



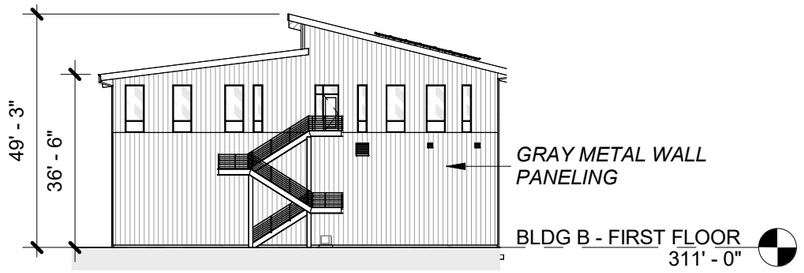
facade area = 8,813 s.f.
transparency = 1,595 s.f. = 18%

facade area = 4,553 s.f.
transparency = 985 s.f. = 22%

BUILDING B - WEST ELEVATION
1/32" = 1'-0"

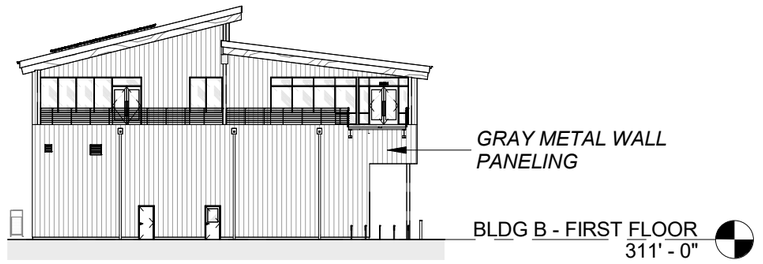


facade area = 8,813 s.f.
transparency = 724 s.f. = 8%



facade area = 3,430 s.f.
transparency = 330 s.f. = 9%

BUILDING B - SOUTH ELEVATION
1/32" = 1'-0"



facade area = 3,423 s.f.
transparency = 770 s.f. = 22%

facade area = 1,475 s.f.
transparency = 590 s.f. = 40%

BUILDING B - EAST ELEVATION
1/32" = 1'-0"

BUILDING B - NORTH ELEVATION
1/32" = 1'-0"



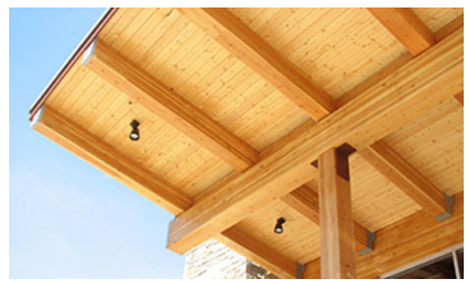
ROLL-UP GARAGE DOORS - GRAY



STANDING SEAM METAL ROOF - GRAY



METAL WALL PANELING - GRAY



GLUE-LAMINATED WOOD BEAMS

ELEVATIONS - BUILDING B

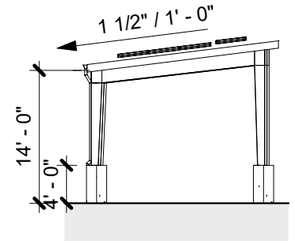
SHEET No:
A3.2

0' 50' 100' 200'

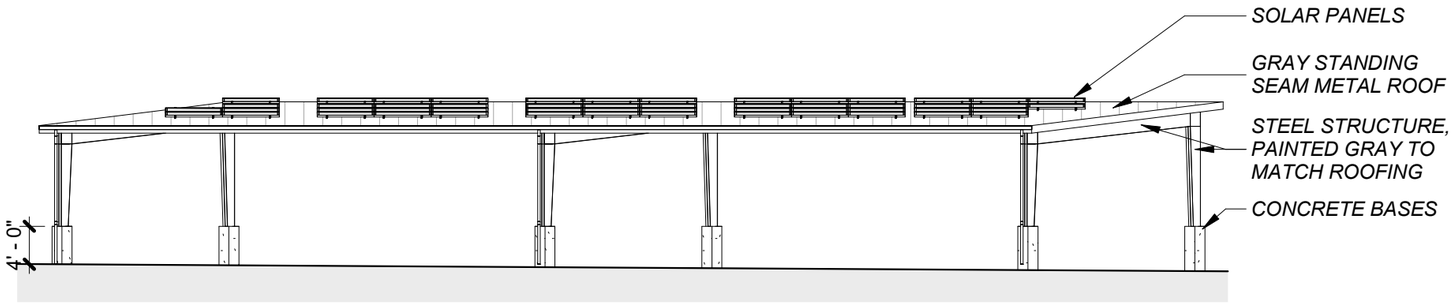
WEST LINN OPERATIONS COMPLEX

23028 **03/20/26**

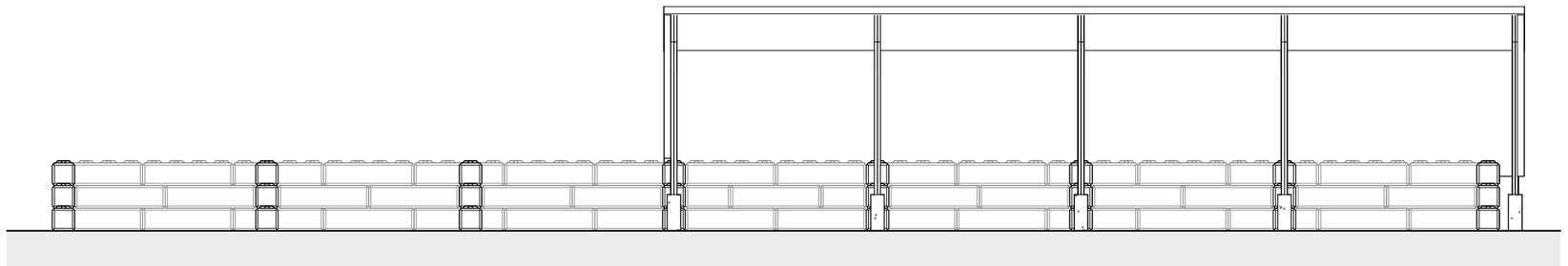
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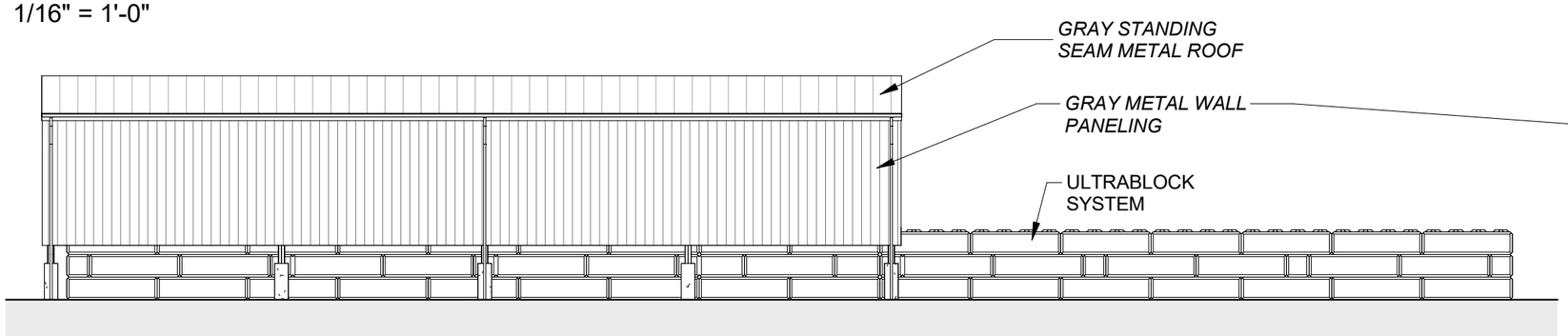
BUILDING C - EAST ELEVATION
1/16" = 1'-0"



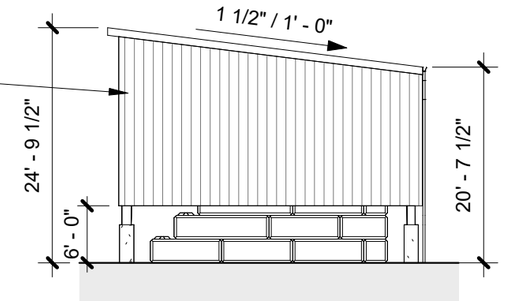
BUILDING C - SOUTH ELEVATION
1/16" = 1'-0"



BUILDING D - SOUTH ELEVATION
1/16" = 1'-0"



LU-BUILDING D - NORTH ELEVATION
1/16" = 1'-0"



BUILDING D- EAST ELEVATION
1/16" = 1'-0"

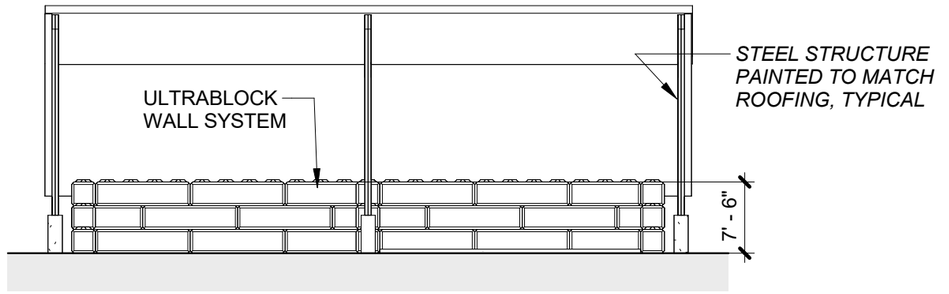
ELEVATIONS - BUILDINGS C & D

SHEET No:
A3.3

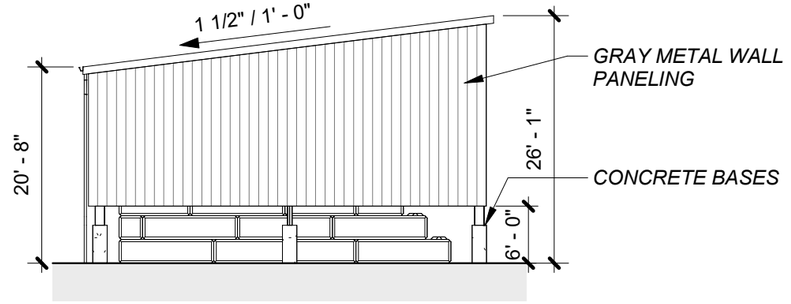
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WEST LINN OPERATIONS COMPLEX
23028 **03/20/26**

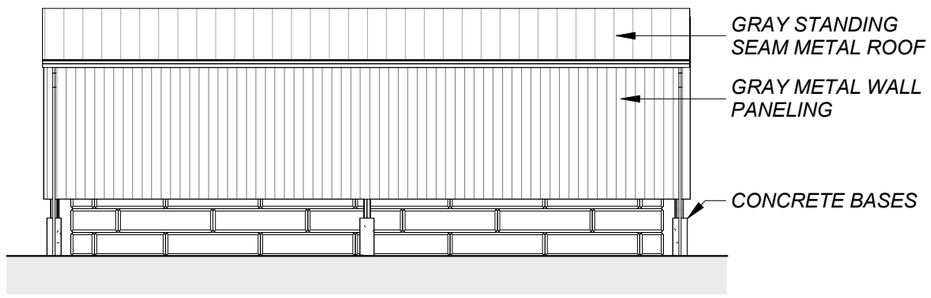
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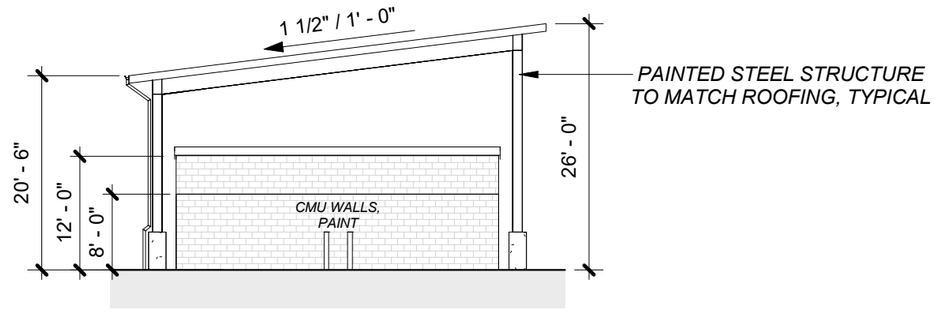
BUILDING E - NORTH ELEVATION
1/16" = 1'-0"



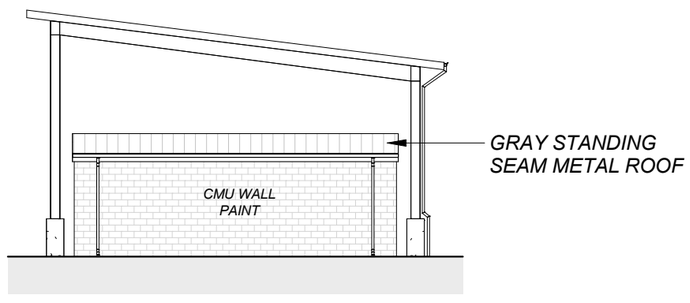
BUILDING E - EAST ELEVATION (WEST ELEVATION SIM)
1/16" = 1'-0"



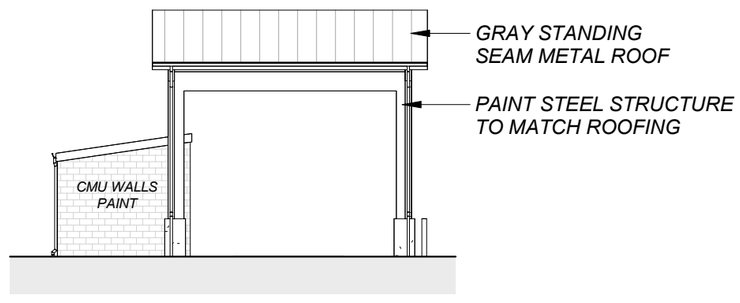
BUILDING E - SOUTH ELEVATION
1/16" = 1'-0"



BUILDING F - NORTH ELEVATION
1/16" = 1'-0"



BUILDING F - SOUTH ELEVATION
1/16" = 1'-0"



BUILDING F - EAST ELEVATION
1/16" = 1'-0"

ELEVATIONS - BUILDINGS E & F

SHEET No:
A3.4

0' 50' 100' 200'

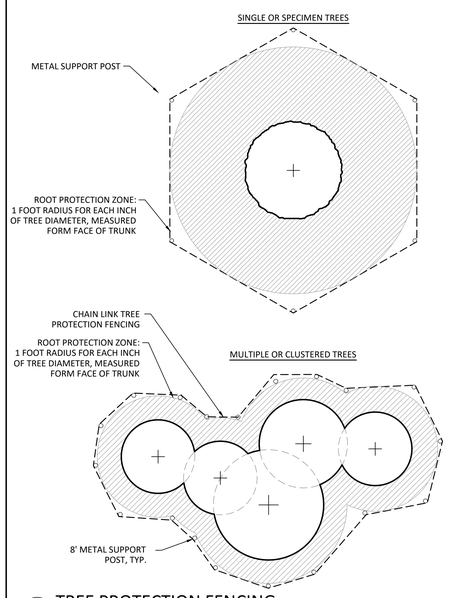
WEST LINN OPERATIONS COMPLEX
23028 03/20/26

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FILE PATH: C:\Revit_Local\23028_West Linn Public Works_tjorgensenZEPNR.rvt

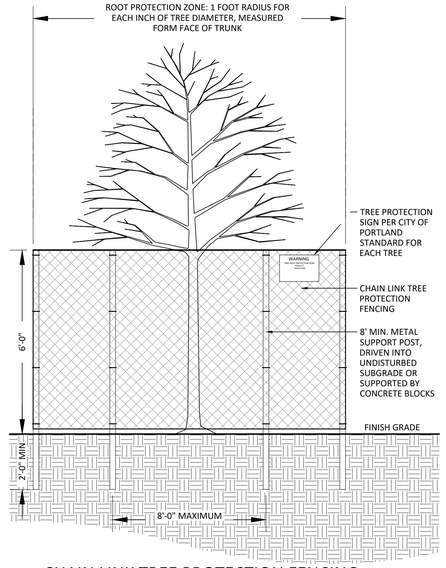
NOTES:

1. TREE PROTECTION SHALL BE A MINIMUM OF 6'-0" GALVANIZED CHAIN LINK AND BE SECURED TO THE GROUND WITH 8'-0" METAL POSTS AND SUPPORTED BY CONCRETE BLOCKS.
2. TREE PROTECTION FENCING SHALL BE ERECTED OUTSIDE OF THE ROOT PROTECTION ZONE PRIOR TO ANY CLEARING, GRADING OR OTHER CONSTRUCTION ACTIVITY. CONTRACTOR TO MAINTAIN TREE PROTECTION FENCING IN PLACE DURING CONSTRUCTION.
3. THE FOLLOWING IS PROHIBITED WITHIN THE ROOT PROTECTION ZONE OF EACH TREE OR OUTSIDE THE LIMITS OF THE DEVELOPMENT IMPACT AREA: GROUND DISTURBANCE OR CONSTRUCTION ACTIVITY INCLUDING VEHICLE OR EQUIPMENT ACCESS (BUT EXCLUDING ACCESS ON EXISTING STREETS OR DRIVEWAYS), STORAGE OF EQUIPMENT OR MATERIALS INCLUDING SOIL, TEMPORARY OR PERMANENT STOCKPILING, PROPOSED BUILDINGS, IMPERVIOUS SURFACES, UNDERGROUND UTILITIES, EXCAVATION OR FILL, TRENCHING OR OTHER WORK ACTIVITIES.



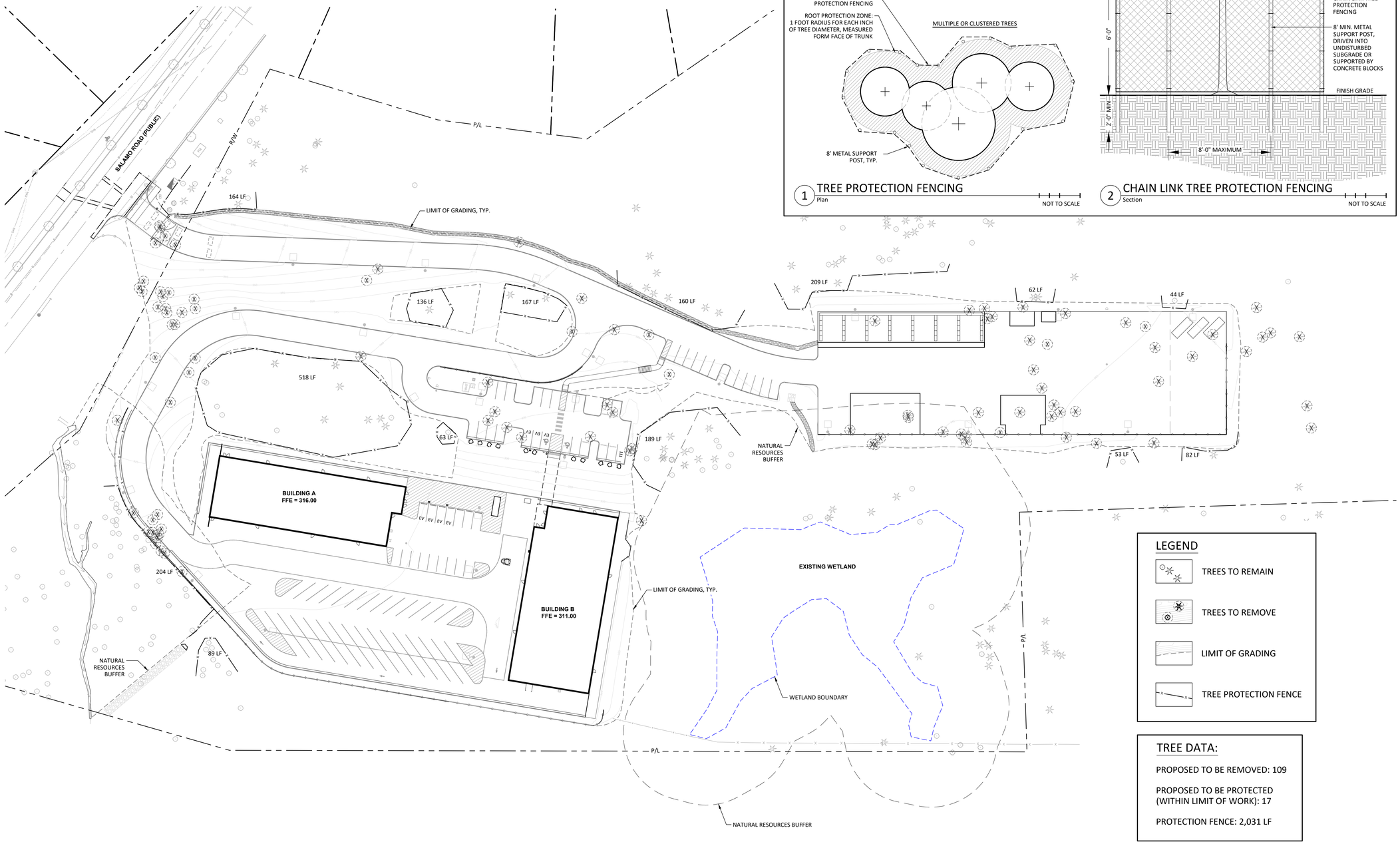
1 TREE PROTECTION FENCING
Plan

NOT TO SCALE



2 CHAIN LINK TREE PROTECTION FENCING
Section

NOT TO SCALE



LEGEND

- TREES TO REMAIN
- TREES TO REMOVE
- LIMIT OF GRADING
- TREE PROTECTION FENCE

TREE DATA:

PROPOSED TO BE REMOVED: 109

PROPOSED TO BE PROTECTED (WITHIN LIMIT OF WORK): 17

PROTECTION FENCE: 2,031 LF

0 20 40 80

SCALE: 1" = 40'

THESE DRAWINGS ARE THE ORIGINAL UNPUBLISHED WORK OF THE ARCHITECT AND MAY NOT BE DUPLICATED OR USED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.

Scott Edwards Architecture
2525 E Burnside St. 503.226.3617
Portland, OR 97214 seallp.com

REGISTERED 788 Daniel K.Chin OREGON 02/08/13 LANDSCAPE ARCHITECT

EXPIRES: 02/28/27

WEST LINN OPERATIONS COMPLEX

Job Number: 23028

WEST LINN, OR

HHPR Harper Houf Peterson Righellis Inc.
ENGINEERS • PLANNERS
LANDSCAPE ARCHITECTS • SURVEYORS
205 SE Spokane Street, Suite 200, Portland, OR 97202
phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

ISSUE	DATE
100% CONSTRUCTION DOCUMENTATION	03.20.2026

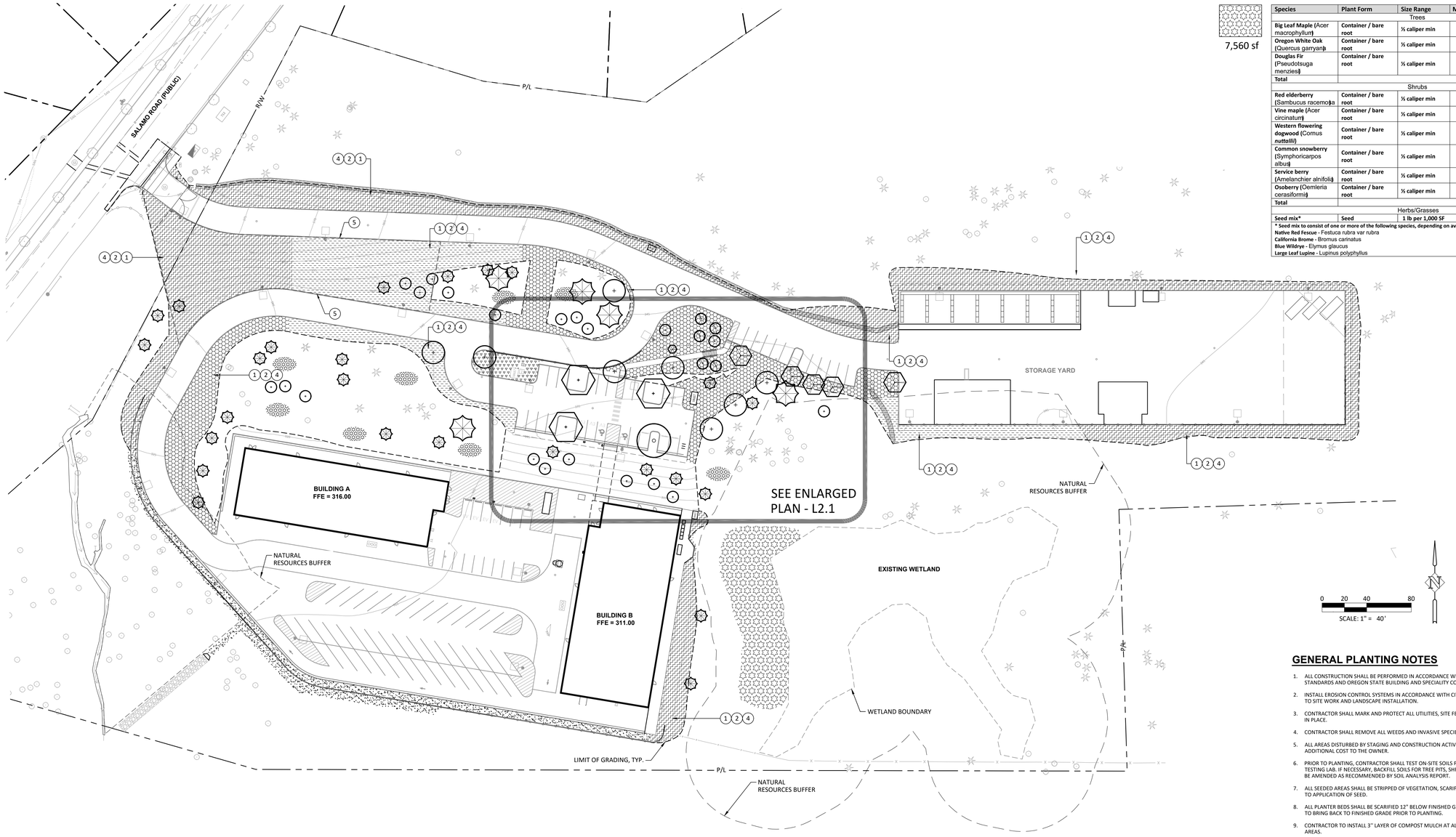
Drawing:

TREE PROTECTION AND REMOVAL PLAN

Sheet No:

L1.0

FILE PATH: C:\Revit_Local\23028_West Linn Public Works_tjorgensenZEPNR.rvt



WATER RESOURCE AREA MITIGATION PLANTING

7,560 sf

Species	Plant Form	Size Range	Minimum Spacing	Quantity
Trees				
Big Leaf Maple (Acer macrophyllum)	**Container / bare root**	**½ caliper min**	**8 to 12 ft o.c.**	**25**
Oregon White Oak (Quercus garryana)	**Container / bare root**	**½ caliper min**	**8 to 12 ft o.c.**	**25**
Douglas Fir (Pseudotsuga menziesii)	**Container / bare root**	**½ caliper min**	**8 to 12 ft o.c.**	**26**
Total				**76**
Shrubs				
Red elderberry (Sambucus racemosa	**Container / bare root**	**½ caliper min**	**4 to 5 ft o.c.**	**60**
Vine maple (Acer circinatum)	**Container / bare root**	**½ caliper min**	**4 to 5 ft o.c.**	**65**
Western flowering dogwood (Cornus *nuttallii*)	**Container / bare root**	**½ caliper min**	**4 to 5 ft o.c.**	**55**
Common snowberry (Symphoricarpos albus)	**Container / bare root**	**½ caliper min**	**4 to 5 ft o.c.**	**75**
Service berry (Amelanchier alnifolia)	**Container / bare root**	**½ caliper min**	**4 to 5 ft o.c.**	**60**
Osoberry (Oemleria cerasiformis)	**Container / bare root**	**½ caliper min**	**4 to 5 ft o.c.**	**63**
Total				**378**
Herbs/Grasses				
Seed mix*	**Seed**	**1 lb per 1,000 SF**		**7.5 lbs**

*** Seed mix to consist of one or more of the following species, depending on availability:**
Native Red Fescue - Festuca rubra var rubra
California Brome - Bromus carinatus
Blue Wildrye - Elymus glaucus
Large Leaf Lupine - Lupinus polyphyllus

GENERAL PLANTING NOTES

1. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT CITY OF WEST LINN STANDARDS AND OREGON STATE BUILDING AND SPECIALITY CODES.
2. INSTALL EROSION CONTROL SYSTEMS IN ACCORDANCE WITH CITY OF WEST LINN STANDARDS PRIOR TO SITE WORK AND LANDSCAPE INSTALLATION.
3. CONTRACTOR SHALL MARK AND PROTECT ALL UTILITIES, SITE FEATURES, AND VEGETATION TO REMAIN IN PLACE.
4. CONTRACTOR SHALL REMOVE ALL WEEDS AND INVASIVE SPECIES PRIOR TO PLANTING OR SEEDING.
5. ALL AREAS DISTURBED BY STAGING AND CONSTRUCTION ACTIVITIES SHALL BE SEEDED AT NO ADDITIONAL COST TO THE OWNER.
6. PRIOR TO PLANTING, CONTRACTOR SHALL TEST ON-SITE SOILS FOR SOIL FERTILITY BY CERTIFIED TESTING LAB. IF NECESSARY, BACKFILL SOILS FOR TREE PITS, SHRUB AND GROUNDCOVER AREAS SHALL BE AMENDED AS RECOMMENDED BY SOIL ANALYSIS REPORT.
7. ALL SEEDED AREAS SHALL BE STRIPPED OF VEGETATION, SCARIFIED AND RECEIVE 4" OF TOPSOIL PRIOR TO APPLICATION OF SEED.
8. ALL PLANTER BEDS SHALL BE SCARIFIED 12" BELOW FINISHED GRADE AND HAVE 6" OF TOPSOIL ADDED TO BRING BACK TO FINISHED GRADE PRIOR TO PLANTING.
9. CONTRACTOR TO INSTALL 3" LAYER OF COMPOST MULCH AT ALL TREE, SHRUB AND GROUNDCOVER AREAS.
10. LANDSCAPE INSTALLATION SHALL INCLUDE PROVISION OF A TEMPORARY AUTOMATIC IRRIGATION SYSTEM TO SUSTAIN LANDSCAPE PLANTINGS, MEETING LOCAL AND STATE BUILDING CODES.
11. PLANT MATERIAL INSTALLED SHALL CONFORM IN SIZE AND GRADE TO THE "AMERICAN STANDARD FOR NURSERY STOCK" CURRENT EDITION.
12. LANDSCAPE CONTRACTOR SHALL WATER PLANTINGS FOR DURATION OF 1-YEAR WARRANTY PERIOD AFTER INSTALLATION AND GUARANTEE ALL PLANTINGS TO BE IN SATISFACTORY HEALTH. LANDSCAPE CONTRACTOR SHALL REPLACE ALL DAMAGED, DEAD, OR DYING PLANTS COVERED BY WARRANTY WITHIN 30 DAYS OF INITIAL IDENTIFICATION OF CONDITION.

KEY NOTES:

1. INSTALL NATIVE PLANTING AREAS PER PLANTING SCHEDULES AND DETAIL 4 / L2.1. ALL PLANTINGS TO RECEIVE 6 INCHES AMENDED OR IMPORTED TOPSOIL.
2. INSTALL 36" DIAMETER X 3" DEEP COMPOST MULCH RINGS AROUND TREES AND SHRUBS. APPLY HYDRO-SEED BETWEEN COMPOST RINGS.
4. INSTALL BROWSE PROTECTION AROUND TREES AND SHRUBS, TYP.
5. LIMITS OF SUBSURFACE GEOGRID, REFER TO CIVIL PLANS.

RESTORATION SEEDING:

EROSION CONTROL - .15 Acres

Native Erosion Control Seed Mix	PLS/ACRE
Hordeum brachyantherum - Meadow Barley	17.45
Bromus carinatus - California Brome	15.27
Festuca rubra rubra - Native Red Fescue	8.73
Deschampsia cespitosa - Tufted Hairgrass	1.31
Agrostis exerata - Spike Bentgrass	.87
	43.63

SEE SHEET L2.2 FOR ADDITIONAL PLANTING SCHEDULE

RESTORATION PLANTING SCHEDULE

PIONEER FOREST - 34,024 SF

BOTANICAL NAME	COMMON NAME	HABIT	FORM	MIN. SIZE	MIN. SPACING	QUANTITY
TREES						
Psuedotsuga menziesii	Douglas Fir	Tree	Bare root	36"	10' o.c.	200
Abies grandis	Grand Fir	Tree	Bare root	24"	10' o.c.	100
Acer macrophyllum	Big Leaf Maple	Tree	Bare root	24"	10' o.c.	40
					Total	340
SHRUBS						
Mahonia nervosa	Cascade Oregon Grape	Large shrub	Bare root	18"	4' o.c.	100
Oemleris cerasiformis	Indian Plum	Large shrub	Bare root	18"	2' o.c.	100
Sambucus racemosa	Red Elderberry	Large shrub	Bare root	18"	4' o.c.	100
Holodiscus discolor	Oceanspray	Large shrub	Bare root	18"	4' o.c.	100
Symphoricarpos albus	Snowberry	Shrub	Bare root	18"	3' o.c.	550
Sambucus cerulea	Blue Elderberry	Large shrub	Bare root	18"	4' o.c.	
					Total	1700
WETLAND SEEDING MIX NO. 1 (.47 ACRES)					% PLS	LBS/ACRE
Hordeum brachyantherum	Meadow Barley	Grass	Seed	10	17.45	
Bromus carinatus	California Brome	Grass	Seed	10	15.27	
Festuca rubra rubra	Red Fescue	Grass	Seed	30	8.73	
Deschampsia cespitosa	Tufted Hairgrass	Grass	Seed	25	1.31	
Agrostis exerata	Spike Bentgrass	Grass	Seed	25	0.87	
					43.56	

EARLY SUCCESSIONAL HABITAT - 14,912 SF

BOTANICAL NAME	COMMON NAME	HABIT	FORM	MIN. SIZE	MIN. SPACING	QUANTITY
TREES						
Quercus garryana	Oregon White Oak	Tree	Bare root	24"	10' o.c.	100
Acer macrophyllum	Big Leaf Maple	Tree	Bare root	24"	10' o.c.	30
Arbutus menziesii	Pacific Madrone	Tree	Bare root	12"	10' o.c.	30
					Total	160
SHRUBS						
Amelanchier alnifolia	Pacific Serviceberry	Large shrub	Bare root	24"	4' o.c.	135
Holodiscus discolor	Oceanspray	Large shrub	Bare root	18"	4' o.c.	135
Rosa nutkana	Nootka Rose	Large shrub	Bare root	18"	4' o.c.	135
Cornus sericea	Redtwig Dogwood	Large shrub	Bare root	24"	4' o.c.	135
Symphoricarpos albus	Common Snowberry	Shrub	Bare root	18"	3' o.c.	135
Mahonia repens	Creeping Mahonia	Shrub	Plugs	12"	3' o.c.	135
					Total	810
SEEDING MIX NO. 2 (.37 ACRES)					% PLS	LBS/ACRE
Hordeum brachyantherum	Meadow Barley	Grass	Seed	10	17.45	
Bromus carinatus	California Brome	Grass	Seed	10	15.27	
Festuca rubra rubra	Red Fescue	Grass	Seed	30	8.73	
Deschampsia cespitosa	Tufted Hairgrass	Grass	Seed	25	1.31	
Agrostis exerata	Spike Bentgrass	Grass	Seed	25	0.87	
					43.56	

Oak Woodland/Savanna - 14,514 SF

BOTANICAL NAME	COMMON NAME	HABIT	FORM	MIN. SIZE	MIN. SPACING	QUANTITY
TREES						
Quercus garryana	Oregon White Oak	Tree	1 gallon	24"	10' o.c.	80
Pinus ponderosa	Ponderosa pine	Tree	1 gallon	24"	10' o.c.	30
Arbutus menziesii	Pacific Madrone	Tree	1 gallon	12"	10' o.c.	35
					Total	145
SHRUBS						
Amelanchier alnifolia	Pacific Serviceberry	Shrub	Bare root	18"	4' o.c.	100
Mahonia aquifolium	Oregon Grape	Shrub	Bare root	18"	4' o.c.	100
Holodiscus discolor	Oceanspray	Shrub	Bare root	18"	4' o.c.	100
Philadelphus Lewisii	Mock Orange	Shrub	Bare root	18"	2' o.c.	200
					Total	1500
NATIVE SEED MIX NO. 1 (.33 ACRES)					% PLS	LBS/ACRE
Bromus carinatus	California Brome	Grass	Seed	15	16.26	
Lupinus albaculus	Sicklekeel Lupine	Legume	Seed	5	16.26	
Elymus elymodies	Squirreltail	Herb	Seed	15	12.36	
Gallardia aristata	Blanketflower	Herb	Seed	10	7.80	
Lotus purshianus	Spanish Clover	Herb	Seed	10	5.20	
Festuca occidentalis	Western Fescue	Grass	Seed	10	2.60	
Eschscholzia californica	California Poppy	Herb	Seed	4	2.60	
Koeleria macrantha	Prairie Junegrass	Grass	Seed	15	0.98	
Clarkia unguiculata	Elegant Clarkia	Herb	Seed	8	0.65	
Achillea millefolium	Common Yarrow	Herb	Seed	8	0.33	
					65.04	

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2525 E Burnside St. 503.226.3617
Portland, OR 97214 seallp.com

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phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

WEST LINN OPERATIONS COMPLEX

Job Number: 23028

WEST LINN, OR

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Drawing:

LANDSCAPE PLAN

Sheet No:

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PLANTING SCHEDULE

TREES

5	Pinus ponderosa - Ponderosa Pine	6' HT | B&B, WELL BRANCHED, LIMBED TO 6'
1	Platanus x acerifolia 'Columbia' - Columbia London Planetree	2" CAL. | B&B, WELL BRANCHED, LIMBED TO 6'
5	Arbutus menziesii - Pacific Madrone	2" CAL. | B&B, WELL BRANCHED, LIMBED TO 6'
21	Quercus garryana - Oregon White Oak	5 GAL | B&B, WELL BRANCHED, LIMBED TO 6'
7	Quercus garryana - Oregon White Oak	2" CAL. | B&B, WELL BRANCHED, LIMBED TO 6'
24	Pseudotsuga menziesii - Douglas Fir	5 GAL | B&B, WELL BRANCHED
5	Pseudotsuga menziesii - Douglas Fir	6' HT | B&B, WELL BRANCHED
3	Metasequoia glyptostroboides - Dawn Redwood	6' HT | B&B, WELL BRANCHED

SHRUBS

13	*Hydrangea quercifolia - Oakleaf Hydrangea*	5 GAL | CONT., FULL PLANTS, SPACING AS SHOWN
10	*Arbutus unedo - Strawberry Tree*	5 GAL | CONT., FULL PLANTS, SPACING AS SHOWN
45	*Mahonia eurybracteata 'Soft Caress' - 'Soft Caress' Mahonia*	5 GAL | CONT., FULL PLANTS, SPACING AS SHOWN
12	*Ceanothus thyrsiflorus - Blue Blossom*	2 GAL | CONT., FULL PLANTS, SPACING AS SHOWN
xx	*Mahonia aquifolium - Tall Oregon Grape*	5 GAL | CONT., FULL PLANTS, SPACING AS SHOWN
18	*Vaccinium ovatum - Evergreen Huckleberry*	5 GAL | CONT., FULL PLANTS, SPACING AS SHOWN
78	*Cornus sericea - Redtwig Dogwood*	2 GAL | CONT., FULL PLANTS, SPACING AS SHOWN

GROUNDCOVER

103	*Rubus calycinoides - Creeping Raspberry*	1 GAL | CONT., FULL PLANTS, 24" O.C.
354	*Bouteloua gracilis 'Blonde Ambition' - Blonde Ambition Blue Grama*	1 GAL | CONT., FULL PLANTS, 18" O.C.

0 10 20 40

SCALE: 1" = 20'

GENERAL PLANTING NOTES

1. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT CITY OF WEST LINN STANDARDS AND OREGON STATE BUILDING AND SPECIALITY CODES.
2. INSTALL EROSION CONTROL SYSTEMS IN ACCORDANCE WITH CITY OF WEST LINN STANDARDS PRIOR TO SITE WORK AND LANDSCAPE INSTALLATION.
3. CONTRACTOR SHALL MARK AND PROTECT ALL UTILITIES, SITE FEATURES, AND VEGETATION TO REMAIN IN PLACE.
4. CONTRACTOR SHALL REMOVE ALL WEEDS AND INVASIVE SPECIES PRIOR TO PLANTING OR SEEDING.
5. ALL AREAS DISTURBED BY STAGING AND CONSTRUCTION ACTIVITIES SHALL BE SEEDED AT NO ADDITIONAL COST TO THE OWNER.
6. PRIOR TO PLANTING, CONTRACTOR SHALL TEST ON-SITE SOILS FOR SOIL FERTILITY BY CERTIFIED TESTING LAB. IF NECESSARY, BACKFILL SOILS FOR TREE PITS, SHRUB AND GROUNDCOVER AREAS SHALL BE AMENDED AS RECOMMENDED BY SOIL ANALYSIS REPORT.
7. ALL SEEDED AREAS SHALL BE STRIPPED OF VEGETATION, SCARIFIED AND RECEIVE 4" OF TOPSOIL PRIOR TO APPLICATION OF SEED.
8. ALL PLANTER BEDS SHALL BE SCARIFIED 12" BELOW FINISHED GRADE AND HAVE 6" OF TOPSOIL ADDED TO BRING BACK TO FINISHED GRADE PRIOR TO PLANTING.
9. CONTRACTOR TO INSTALL 3" LAYER OF COMPOST MULCH AT ALL TREE, SHRUB AND GROUNDCOVER AREAS.
10. LANDSCAPE INSTALLATION SHALL INCLUDE PROVISION OF A TEMPORARY AUTOMATIC IRRIGATION SYSTEM TO SUSTAIN LANDSCAPE PLANTINGS, MEETING LOCAL AND STATE BUILDING CODES.
11. PLANT MATERIAL INSTALLED SHALL CONFORM IN SIZE AND GRADE TO THE "AMERICAN STANDARD FOR NURSERY STOCK" CURRENT EDITION.
12. LANDSCAPE CONTRACTOR SHALL WATER PLANTINGS FOR DURATION OF 1-YEAR WARRANTY PERIOD AFTER INSTALLATION AND GUARANTEE ALL PLANTINGS TO BE IN SATISFACTORY HEALTH. LANDSCAPE CONTRACTOR SHALL REPLACE ALL DAMAGED, DEAD, OR DYING PLANTS COVERED BY WARRANTY WITHIN 30 DAYS OF INITIAL IDENTIFICATION OF CONDITION.

KEY NOTES:

1. INSTALL NATIVE PLANTING AREAS PER PLANTING SCHEDULES AND DETAIL 4 / L2.1. ALL PLANTINGS TO RECEIVE 6 INCHES AMENDED OR IMPORTED TOPSOIL.
2. INSTALL 36" DIAMETER X 3" DEEP COMPOST MULCH RINGS AROUND TREES AND SHRUBS. APPLY HYDRO-SEED BETWEEN COMPOST RINGS.
3. INSTALL 3" DEEP COMPOST MULCH BETWEEN PLANTINGS IN BUFFER AREA, TYP.
4. INSTALL BROWSE PROTECTION AROUND TREES AND SHRUBS, TYP.

BUFFER PLANTING - 6,081 SF

BOTANICAL NAME	COMMON NAME	HABIT	FORM	MIN. SIZE	MIN. SPACING	QUANTITY
GROUNDCOVER						
Rubus parviflorus	Thimbleberry	Groundcover	4" pots	na	3' o.c.	200
Deschampsia cespitosa	Tufted Hairgrass	Grass	10 Ci. plug	na	2' o.c.	200
Symphoricarpos albus	Snowberry	Large shrub	4" pots	na	3' o.c.	200
						600

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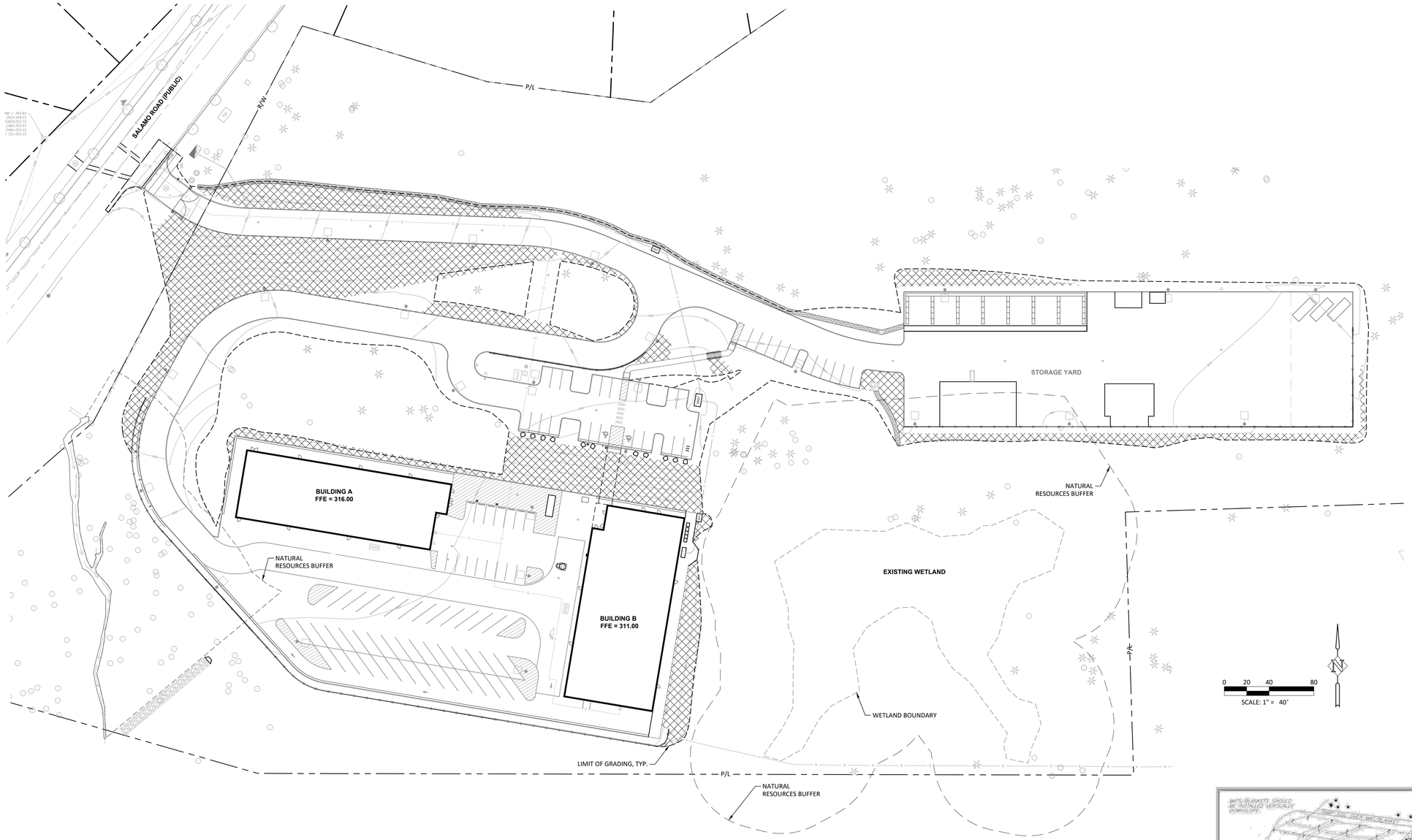
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PLANTING PLAN ENLARGED

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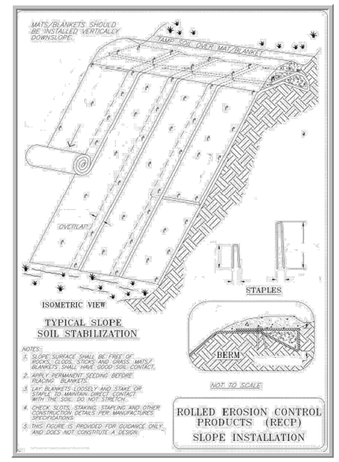


LEGEND

COIR NETTING

COIR NETTING INSTALLATION NOTES:

1. CONTRACTOR TO INSPECT ROLL LABELS, LOT TRACEABILITY, MESH UNIFORMITY, AND FIBER INTEGRITY. REJECT SUN-BAKED OR DELAMINATING STOCK.
2. CLEAR AREA OF ALL VISIBLE DEBRIS INCLUDING ROCKS, BRANCHES, WEEDS AND DEAD VEGETATION.
3. ENSURE SLOPES ARE CONSISTENT WITH GRADING PLAN.
4. BREAK UP SOIL CRUST IN ORDER TO INCREASE AND ENHANCE WATER UPTAKE AND SEED GERMINATION.
5. AMEND SOIL AS RECOMMENDED BY SOILS ANALYIS REPORT.
6. ENSURE TOP OF MATTING IS EMBEDDED AND ANCHORED 6 INCHES INTO TRENCH AT TOP OF SLOPE.
7. NETTING SHALL MAINTAIN CONTACT WITH SLOPE USING STEEL U-STAPLES 2 FEET APART.
8. OVERLAP EDGES SIDE TO SIDE BY AT LEAST 6 INCHES, TOP TO BOTTOM OVERLAP AT LEAST 12 INCHES



1 ROLLED EROSION CONTROL NETTING
Perspective and Section View NTS

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Drawing:

EROSION NETTING AT PLANTING AREAS

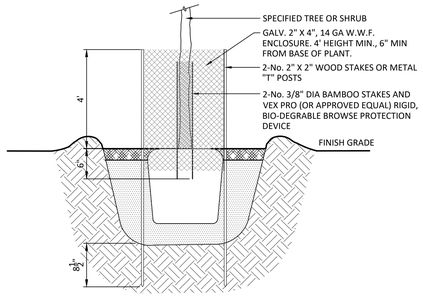
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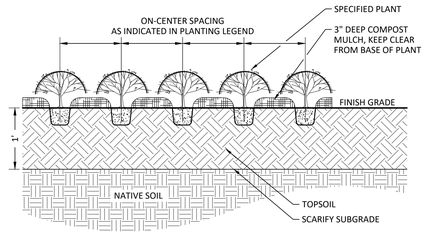
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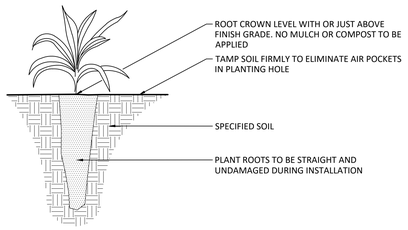
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6 BROWSE PROTECTION
Section
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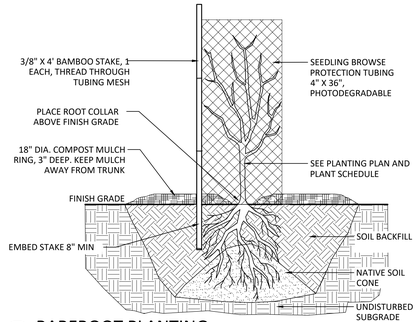


4 GROUNDCOVER PLANTING
Section
NOT TO SCALE

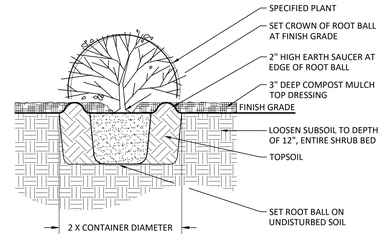


NOTE:
CREATE PLANTING HOLE BY DRIVING A STEEL SPIKE OR DIBBLE INTO THE GROUND AND WORKING BACK AND FORTH

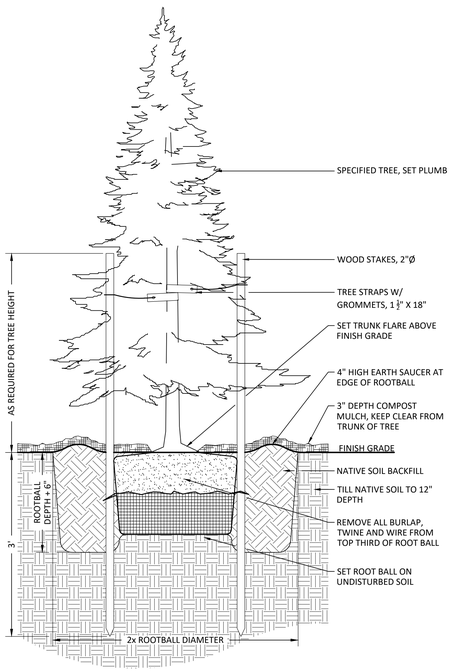
7 PLUG PLANTING
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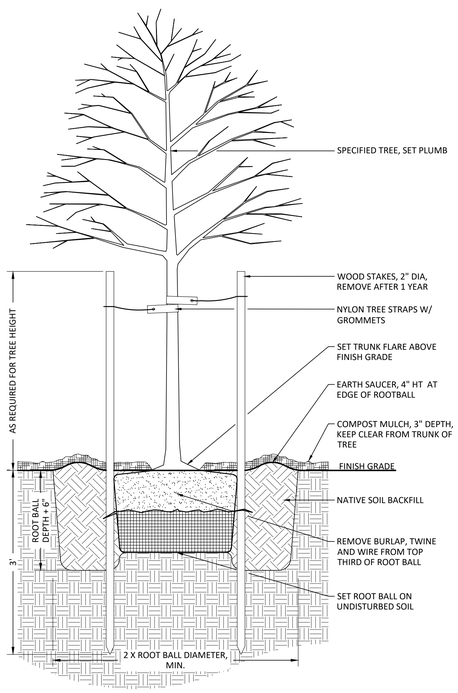
5 BAREROOT PLANTING
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NOT TO SCALE



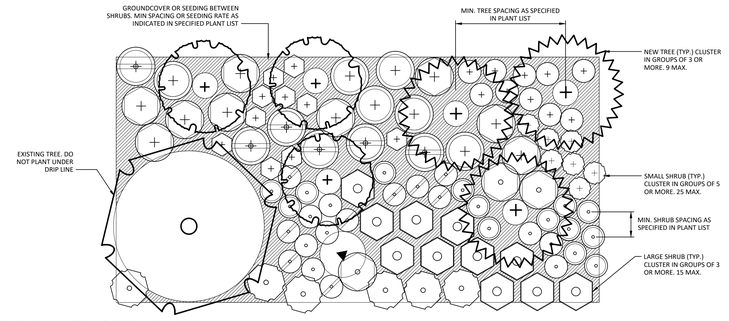
2 SHRUB PLANTING
Section
NOT TO SCALE



3 TREE PLANTING - CONIFEROUS
Section
NOT TO SCALE



1 TREE PLANTING - DECIDUOUS
Section
NOT TO SCALE



8 SAMPLE PLANTING TEMPLATE
Section
Scale: 1"-8'-0"

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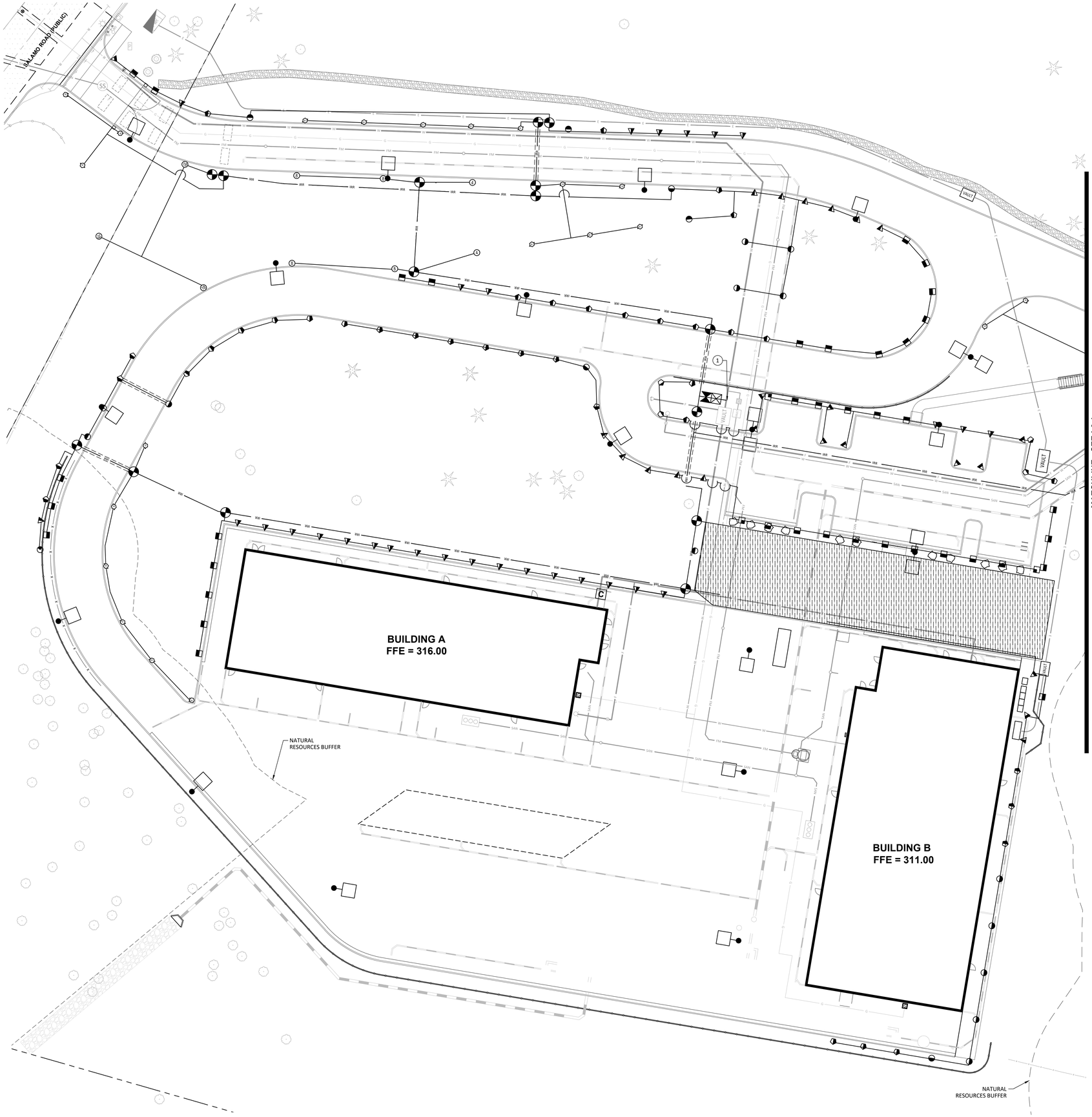
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PLANTING DETAILS

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IRRIGATION LEGEND

EQUIPMENT

SYMBOL	DESCRIPTION
	BACKFLOW PREVENTOR - FEBCO MODEL 850, 2" OR APPROVED EQ.
	BALL VALVE - NIBCO T-560 OR APPROVED EQUAL.
	REMOTE CONTROL VALVE - RAINBIRD PEB, SIZE AS SHOWN REMOTE CONTROL VALVE
	QUICK COUPLER - RAINBIRD RC
	MANUAL DRAIN VALVE -
C	CONTROLLER - RAINBIRD ESP-LXME OR EQUAL

PIPE

IRR	MAINLINE - 2" SCH. 80 PVC
	SLEEVING - 4" SLEEVE FOR PIPES < 2"
	LATERAL LINE - .75", CLASS 200 PVC
	LATERAL LINE - 1.0", 1.25" & 1.5" CLASS 200 PVC
2	LATERAL LINE - SIZE AS INDICATED, CLASS 200 PVC
	DRIP IRRIGATION - RAINBIRD SUB-SURFACE DRIPLINE XFS-00-00-100

VALVE ZONE KEY

X — VALVE NUMBER; VALVE SIZE; GALLONS PER MINUTE

HEAD SCHEDULE

SYMBOL	DESCRIPTION	PSI	RADIUS	GPM
	RAINBIRD 1800-PRS HEADS W/ MPR NOZZLES			
	1800-PRS-5 (F, H & Q)	30	5'	.41, .20, .10
	1800-PRS-8 (F, H & Q)	30	8'	1.05, .52, .26
	1800-PRS-10 (F, H & Q)	30	10'	1.58, .79, .39
	1800-PRS-12 (F, H & Q)	30	12'	2.60, 1.30, .65
	1800-PRS-15 (F, H & Q)	30	15'	3.70, 1.85, .92
	1800-PRS-15 (SST & EST)	30	4'X30', 4'X15'	1.21, .61
	RAINBIRD ROOT WATERING SYSTEM RWS-B-1401	40	NA	.25
	RAINBIRD VAN ROTATORY NOZZLES			
	R VAN-LCS, R-VAN-SST	40	5X30', 5'X15'	.48, .24
	R-VAN14 (360, 180, 90)	40	8'-14'	1.27, .63, .32
	R VAN18 (360, 180, 90)	40	13'-18'	1.85, 1.01, .50
	R VAN24 (360, 180, 90)	40	17'-24'	3.48, 1.68, .84
	RAINBIRD 5000 PLUS MPR			
	5000-MPR-25(F, H, & Q)	*45*	*25'*	*3.82, 1.98, 1.00*
	5000-MPR-30(F, H, & Q)	*45*	*30'*	*5.78, 2.96, 1.40*
	5000-MPR-35(F, H, & Q)	*45*	*35'*	*7.58, 3.81, 1.92*
	RAINBIRD FALCON 6500			
	6500-PC	*40*	*41'-59'*	*3.3 - 13.7*

KEY NOTES:

1 IRRIGATION POINT OF CONNECTION

0 10' 20' 40'

SCALE: 1" = 20'

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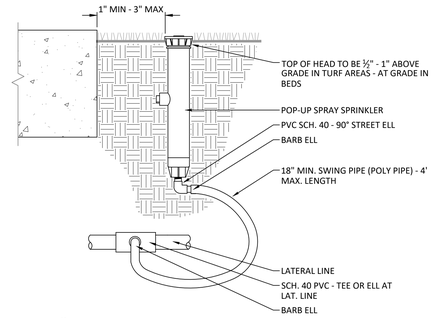
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IRRIGATION PLAN

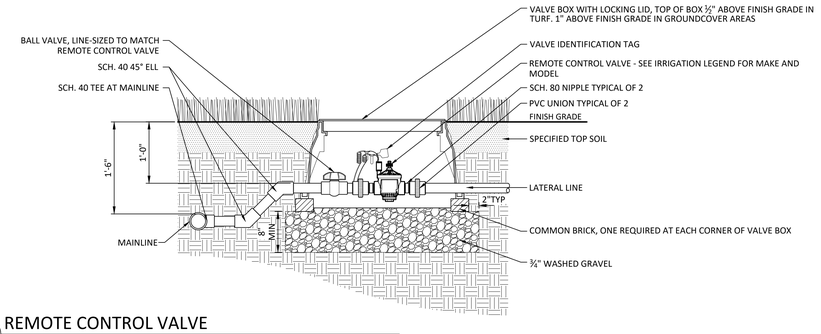
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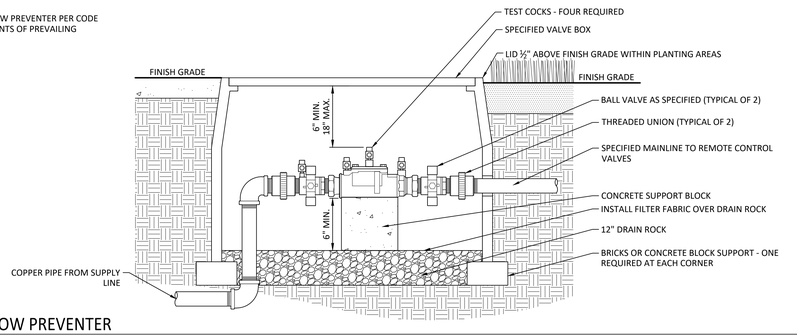


3 12" POP-UP SPRAY SPRINKLER
Section NTS



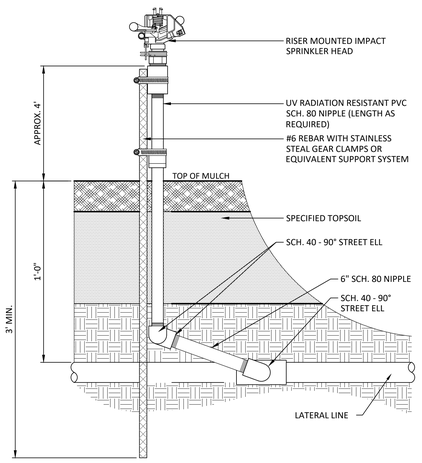
2 REMOTE CONTROL VALVE
Section NTS

NOTE:
1. INSTALL BACKFLOW PREVENTER PER CODE AND REQUIREMENTS OF PREVAILING JURISDICTION



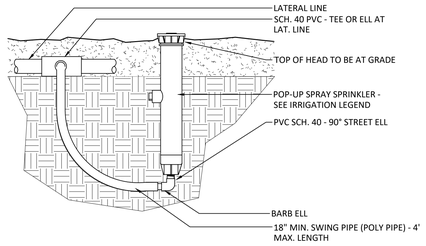
1 BACKFLOW PREVENTER
Section NTS

SCALE: NTS

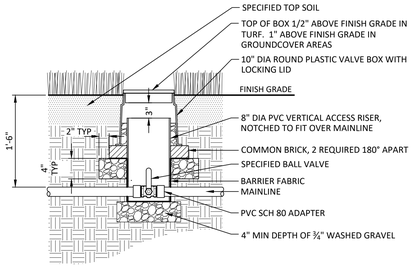


NOTE:
1. RISER MOUNTED IMPACTED HEADS TO ONLY BE INSTALLED IN TEMPOARY IRRIGAITON AREAS ONLY.

7 RISER MOUNTED IMPACT HEAD
Section NTS

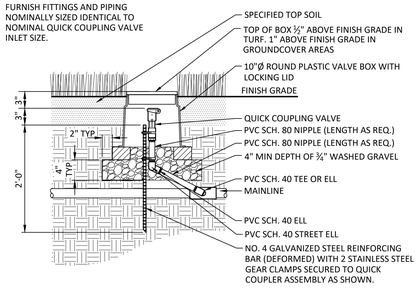


8 TEMPORARY POP-UP HEAD
Section NTS

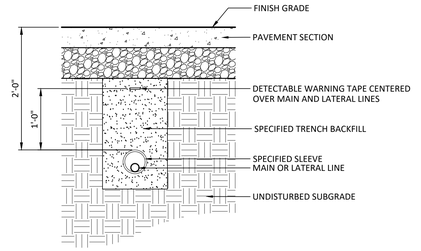


6 ISOLATION VALVE
Section NTS

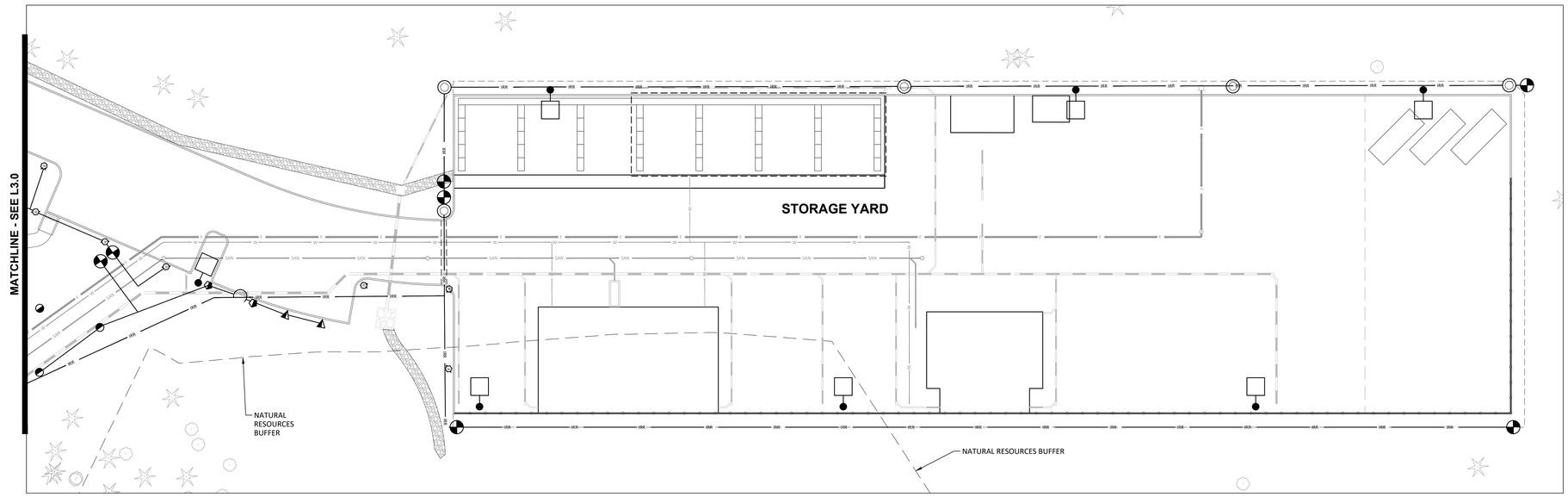
NOTE:
1. FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.



5 QUICK COUPLER
Section NTS



4 SLEEVING
Section NTS



IRRIGATION PLAN
SCALE: 1" = 20'

0 10' 20' 40'
SCALE: 1" = 20"

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Scott Edwards Architecture
2525 E Burnside St. 503.226.3617
Portland, OR 97214 seallp.com

REGISTERED 788 Daniel K.Chin OREGON 02/08/13 LANDSCAPE ARCHITECT
EXPIRES: 02/28/27

WEST LINN OPERATIONS COMPLEX

Job Number: 23028

WEST LINN, OR

Harper Houf Peterson Righellis Inc.
ENGINEERS • PLANNERS
LANDSCAPE ARCHITECTS • SURVEYORS
205 SE Spokane Street, Suite 200, Portland, OR 97202
phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

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Drawing:

IRRIGATION PLAN AND DETAILS

Sheet No:

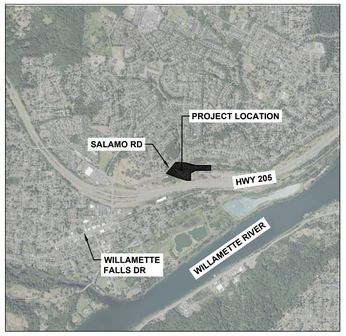
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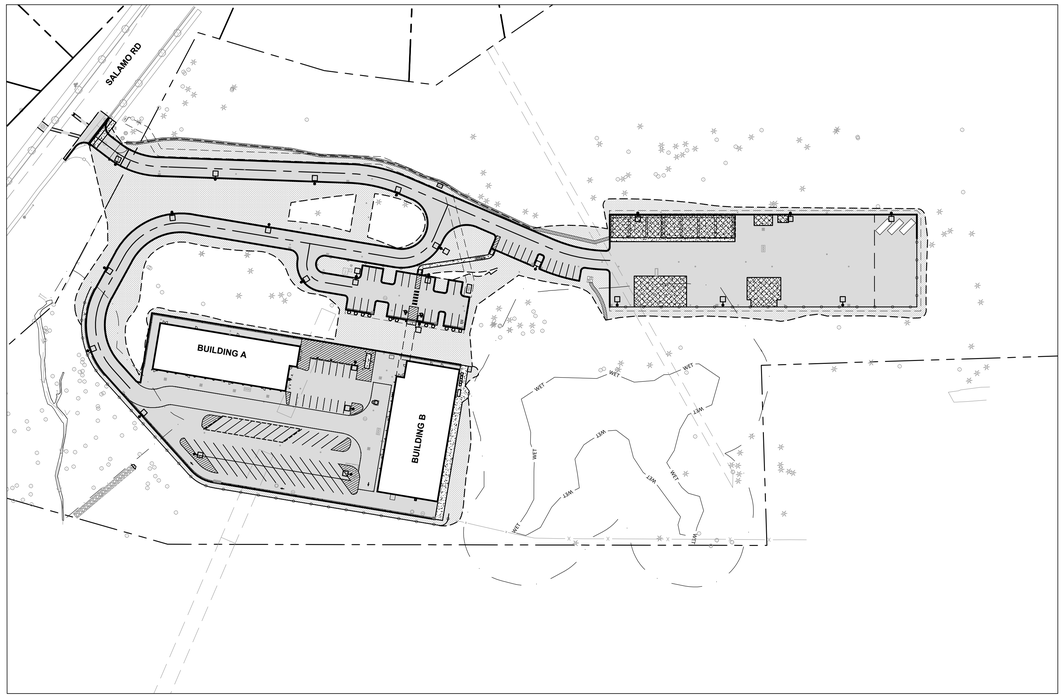
WEST LINN PUBLIC WORKS

WEST LINN, OREGON

MARCH 2026



VICINITY MAP
NTS



PLAN VIEW
SCALE: 1" = 80'

0 40 80 160
SCALE: 1" = 80'

SHEET INDEX

C0.0	COVER SHEET & GENERAL NOTES
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C1.0	OVERALL SITE PAVING & STRIPING PLAN
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C1.2	EAST SITE PAVING & STRIPING PLAN
C2.0	OVERALL GRADING PLAN AND ACCESS ROAD PROFILES
C2.1	GRADING PLAN
C2.2	GRADING PLAN
C2.3	GRADING PLAN
C2.4	GRADING PLAN
C2.5	GRADING PLAN
C2.6	PUBLIC GRADING DETAILS
C2.7	WALL PROFILES
C2.8	ACCESS ROAD CROSS SECTIONS
C3.0	OVERALL STORMWATER PLAN
C3.1	WEST STORMWATER PLAN
C3.2	EAST STORMWATER PLAN
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C4.1	WEST UTILITY PLAN
C4.2	EAST UTILITY PLAN
C4.3	SANITARY SEWER PUMP STATION DETAILS
C5.0	DETAILS
C5.1	DETAILS
C5.2	DETAILS
C5.3	DETAILS
C5.4	DETAILS
C5.5	DETAILS
L1.0	TREE PROTECTION AND REMOVAL PLAN
L2.0	LANDSCAPE PLAN
L2.1	PLANTING PLAN ENLARGED
L2.2	EROSION NETTING AT PLANTING AREAS
L2.3	PLANTING DETAILS
L3.0	IRRIGATION PLAN
L3.1	IRRIGATION PLAN AND DETAILS

PERMITTED UNDER SEPARATE DEQ 1200-C PERMIT

EC1.0	ESCP - COVER SHEET
EC2.0	ESCP - EXISTING CONDITIONS
EC3.0	ESCP - DEMO, CLEARING, GRADING, EXCAVATING, AND LAND DEVELOPMENT
EC4.0	ESCP - STREET & UTILITY PLAN
EC5.0	ESCP - VERTICAL CONSTRUCTION PLAN
EC6.0	ESCP - FINAL LANDSCAPING AND STABILIZATION PLAN
EC7.0	ESCP - BMP DETAILS

LIST OF ABBREVIATIONS:

EL	ELEVATION
LT	LEFT
RT	RIGHT
CB	CATCH BASIN
MH	MANHOLE
EP	EDGE OF PAVEMENT
R.O.W., R/W	RIGHT-OF-WAY
PL, P/L	PROPERTY LINE
ESMT	EASMENT
STD	STANDARD
AC	ASPHALT CONCRETE
DI	DUCTILE IRON
PVC	POLYVINYL CHLORIDE
STM	STORM
SAN	SANITARY
WTR	WATER
STA	ALIGNMENT STATION
CR	CURB RETURN
FFE	FINISHED FLOOR ELEVATION
TC	TOP OF CURB
BC	BOTTOM OF CURB (FINISHED GRADE)
FG	FINISHED GRADE
EX	EXISTING
PROP	PROPOSED

PROJECT TEAM

OWNER/DEVELOPER
WEST LINN PUBLIC WORKS
22500 SALAMO ROAD
WEST LINN, OREGON 97068
PHONE: (503) 722-3434
CONTACT: ERIC LAIS, PE
PUBLIC WORKS DIRECTION/CITY ENGINEER
EMAIL: ELAIS@WESTLINNOREGON.GOV

CIVIL ENGINEER
HARPER HOUF PETERSON RIGHELLIS INC.
205 SE SPOKANE STREET, SUITE 200
PORTLAND, OREGON 97202
PHONE: (503) 221-1131
CONTACT: ALEX SIMPSON, PE
EMAIL: ALEXS@HHPR.COM

LANDSCAPE ARCHITECT
HARPER HOUF PETERSON RIGHELLIS INC.
205 SE SPOKANE STREET, SUITE 200
PORTLAND, OREGON 97202
PHONE: (503) 221-1131
CONTACT: DANIEL CHIN, RLA
EMAIL: DANCHIN@HHPR.COM

ARCHITECT
SCOTT EDWARDS ARCHITECTURE, LLP
2525 E BURNSIDE STREET
PORTLAND, OREGON 97214
PHONE: (503) 226-3617
CONTACT: JEFF DUNN
EMAIL: JDUNN@SEALLP.COM

STRUCTURAL ENGINEER
WDY
6443 SW BEAVERTON-HILLSDALE HWY, SUITE 210
PORTLAND, OREGON 97221
PHONE: (503) 203-8111
CONTACT: KYLE CONNER, PE
EMAIL: KYLE@WDYI.COM

MECHANICAL/ELECTRICAL/PLUMBING/ TECHNOLOGY ENGINEER
INTERFACE ENGINEERING, INC.
100 SW MAIN STREET, SUITE 1600
PORTLAND, OREGON 97204
PHONE: (503) 382-2266
CONTACT: MARK O'LEARY, PE
EMAIL: MARKO@INTERFACE.COM

SITE INFORMATION

22500 SALAMO RD, WEST LINN, OR 97068
PARCEL ID: 21E35D #5400 (32.98 AC)
TOPOGRAPHIC SURVEY COMPLETED BY HHPR,
APRIL 16, 2025

BENCHMARK:

VERTICAL DATUM: NAVD 88, BASED ON NETWORK GPS OBSERVATIONS
HORIZONTAL COORDINATES ARE BASED ON OREGON STATE PLAN (NORTH ZONE) - REFERENCE FRAME: NAD 83 (CORS96)(EPOCH: 2010.0000), US SURVEY FEET. ALL DISTANCES ARE GROUND, SO STATE PLANE COORDINATES ARE APPROXIMATE.

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF WEST LINN AND THE PROJECT SPECIFICATIONS.
2. FIELD VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. CALL 811.
3. CONTRACTOR TO PROTECT ALL EXISTING UTILITIES TO REMAIN. CONTRACTOR SHALL ADJUST ALL EXISTING RIM ELEVATIONS TO FINISHED GRADE OF NEW CONSTRUCTION.
4. ALL ON-SITE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT EDITION OF THE CITY OF WEST LINN DESIGN AND CONSTRUCTION STANDARDS (EFFECTIVE AUGUST 1, 2019), CITY OF WEST LINN PUBLIC WORKS DESIGN STANDARDS - STORM DRAINS 2025, AND THE INTERNATIONAL FIRE CODE. WORK SHALL ALSO CONFORM TO THE STANDARDS OF THE JURISDICTION AND TO THE PROJECT SPECIFICATIONS.
5. THE LOCATION AND DESCRIPTION OF EXISTING UTILITIES ARE COMPILED FROM AVAILABLE RECORDS AND/OR FIELD SURVEYS AND ARE APPROXIMATE. UTILITIES MAY EXIST THAT ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL VERIFY AND CONFIRM EXISTING CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF VARIATIONS IN CONDITIONS SHOWN ON THE PLANS. POINTS OF CONNECTION TO EXISTING UTILITIES AND LOCATIONS WHERE NEW UTILITIES WILL CROSS EXISTING UTILITIES SHALL BE VERIFIED BY POTHOLING PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SCHEDULE POTHOLING SUCH THAT IF CONFLICTS ARE ENCOUNTERED, SUFFICIENT TIME EXISTS TO PREPARE MODIFIED DESIGNS AND HAVE THE MODIFICATIONS APPROVED BY THE JURISDICTION WITHOUT IMPACTING THE PROJECT SCHEDULE.
6. PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO KEEP ALL EXISTING UTILITIES IN SERVICE AND PROTECT THEM DURING CONSTRUCTION.
7. ALL TRADE LICENSES AND PERMITS NECESSARY FOR THE PROCUREMENT AND COMPLETION OF THE WORK SHALL BE SECURED BY THE CONTRACTOR PRIOR TO COMMENCING DEMOLITION.
8. THE CONTRACTOR SHALL PRESERVE AND PROTECT FROM DAMAGE ALL EXISTING RIGHT-OF-WAY SURVEY MONUMENTATION DURING DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PAYING FOR THE REPLACEMENT BY A LICENSED SURVEYOR OF ANY DAMAGED OR REMOVED MONUMENTS.
9. PROTECT ALL ITEMS ON ADJACENT PROPERTIES AND IN THE RIGHT-OF-WAY INCLUDING BUT NOT LIMITED TO SIGNAL EQUIPMENT, PARKING METERS, SIDEWALKS, STREET TREES, STREET LIGHTS, CURBS, PAVEMENT AND SIGNS. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY DAMAGED ITEMS TO ORIGINAL CONDITION.
10. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, AND OTHER FACILITIES IMMEDIATELY ADJACENT TO EXCAVATIONS FROM DAMAGES CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT AND OTHER HAZARDS.
11. EXTENTS OF SAWCUT REMOVAL SHOWN ON PLANS IS APPROXIMATE. CONTRACTOR IS TO ADJUST EXTENTS AS NECESSARY WITHIN PROJECT SCOPE AND REQUIREMENTS. CONTRACTOR IS TO SAWCUT AT STRAIGHT LINE AT THE NEAREST JOINT.
12. CONTRACTOR IS RESPONSIBLE TO CONTROL DUST AND MUD DURING THE DEMOLITION PERIOD, AND DURING TRANSPORTATION OF DEMOLITION DEBRIS. ALL STREET SURFACES OUTSIDE THE CONSTRUCTION ZONE MUST BE KEPT CLEAN.
13. PROTECT ALL EXISTING UTILITY STRUCTURES AND UNDERGROUND MAINS NOT PROPOSED FOR DEMOLITION.
14. PROTECT ALL EXISTING VEGETATION TO REMAIN WITHIN AND OUTSIDE OF PROJECT LIMITS.
15. CONTRACTOR TO VERIFY BUILDING SLAB SECTION REQUIREMENTS WITHIN ALL DOCUMENTS, INCLUDING BUT NOT LIMITED TO ARCHITECTURAL AND STRUCTURAL DRAWINGS WITH REFERENCED GEOTECHNICAL DATA, PRIOR TO EXCAVATION TO PAD ELEVATION.

TRAFFIC CONTROL:

1. TRAFFIC CONTROL TO BE PERFORMED IN ACCORDANCE WITH THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES AND OREGON AMENDMENTS AS APPLICABLE. THE CITY OR COUNTY CAN REQUIRE ADDITIONAL TRAFFIC CONTROL MEASURES AS NEEDED TO PROVIDE FOR PUBLIC SAFETY.
2. A TRAFFIC CONTROL PLAN SHALL BE PREPARED AND SUBMITTED FOR REVIEW BY CITY, FOR BOTH WORK-DAY HOURS, CONSTRUCTION OPERATIONS, AND AFTER-HOUR DISRUPTIONS.
3. ALL TRAFFIC CONTROL MEASURES NEED TO BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL.

PRIVATE UTILITY NOTES:

STORM DRAINAGE

1. PRIVATE STORM DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF WEST LINN PUBLIC WORKS DESIGN STANDARDS - STORM DRAINS 2025, CITY OF WEST LINN DESIGN STANDARDS (EFFECTIVE AUGUST 1, 2019), AND THE 2023 OREGON SPECIALTY PLUMBING CODE.
2. PRIVATE STORM DRAINAGE PIPE MATERIAL TO BE AS NOTED ON THE PLANS OR ENGINEER APPROVED EQUAL.
3. THE CONTRACTOR SHALL TEST ALL PVC AND HDPE STORM PIPE FOR DEFLECTION AS PER CITY OF WEST LINN CONSTRUCTION STANDARDS. A COPY OF THE TEST RESULTS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL.
4. THE CONTRACTOR SHALL FLUSH THE ENTIRE STORM SYSTEM AND VIDEO INSPECT ALL STORM SEWER CONVEYANCE PIPES. A COPY OF THE REPORT AND VIDEO TAPE SHALL BE SUBMITTED FOR REVIEW AND APPROVAL.
5. CATCH BASINS SHALL BE INSTALLED TO FINISH GRADE OR AS NOTED ON PLANS.
6. ADJUST MANHOLES, CLEAN OUT AND AREA DRAIN RIMS TO FINISH GRADE.
7. HORIZONTAL LINES CONNECTING WITH OTHER HORIZONTAL LINES SHALL ENTER THROUGH 45 DEGREE WYE BRANCH. TEE BRANCH IS NOT ALLOWED.
8. ALL RAIN DRAIN PIPING INSTALLED WITHIN 5.0 FEET OF A BUILDING TO BE SCHEDULE 40 PVC-D.W.V. PIPING OR APPROVED EQUAL. COORDINATE LOCATION OF RAIN DRAINS WITH PLUMBING PLANS.
9. FOUNDATION DRAIN PIPE AND WALL DRAINAGE PIPING SHALL BE COORDINATED WITH STRUCTURAL AND ARCHITECTURAL PLANS AND DETAILS. AT FOUNDATION DRAIN CONNECTION INSTALL CLEANOUT AND ACCESSIBLE FLAPPER TYPE BACKWATER VALVE. SET RIM TO FINISH GRADE. COORDINATE FOUNDATION DRAIN CONNECTION POINTS WITH ARCHITECTURAL AND STRUCTURAL PLANS.
10. TRACER WIRE - 12-GAUGE STRANDED OR SOLID COPPER INSULATED HIGH MOLECULAR WEIGHT POLYETHYLENE (HMW-PE) TRACER WIRE. THE HMW-PE INSULATED COVER SHALL BE GREEN AND A MINIMUM 45 MIL THICK. THE WIRE SHALL BE RATED FOR 140 DEGREES FAHRENHEIT. INSTALL TRACER WIRE IN ALL TRENCHES FOR STORM SEWERS. PLACE THE TRACER WIRE DIRECTLY OVER THE PIPE CENTERLINE AND ON TOP OF THE PIPE ZONE MATERIAL, PARALLEL TO, AND ALONG THE ENTIRE LENGTH OF ALL NONMETALLIC PIPE.

SANITARY SEWER

1. ALL SANITARY SEWER CONSTRUCTION TO WITHIN THREE (3) FEET OF THE BUILDING SHALL BE PVC ASTM D3034 SDR 35 AND IN ACCORDANCE WITH CITY OF WEST LINN, THE INTERNATIONAL BUILDING CODE (IBC), AND THE 2023 OREGON SPECIALTY PLUMBING CODE .
2. PRIVATE SANITARY SEWER PIPE WITHIN THREE (3) FEET OF THE BUILDING SHALL BE DRAIN WASTE VENT (DWV), IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE (IBC) AND THE 2023 OREGON SPECIALTY PLUMBING CODE.
3. PRIVATE SANITARY DRAINAGE PIPE MATERIAL TO BE ADS SANITITE HP (SMOOTH INTERIOR), PVC D-3034 OR ENGINEER APPROVED EQUAL.
4. HORIZONTAL LINES CONNECTING WITH OTHER HORIZONTAL LINES SHALL ENTER THROUGH 45 DEGREE WYE BRANCH. TEE BRANCH IS NOT ALLOWED.
5. WHERE SANITARY LINES CROSS WATER LINES, THE SYSTEMS NEED TO BE CONSTRUCTED SUCH THAT THE CROSSING WILL OCCUR AT THE CENTER OF A PIPE SEGMENT FOR BOTH LINES.
6. PRIOR TO TESTING AND INSPECTION OF THE SANITARY PIPELINE, ALL PARTS OF THE SYSTEM SHALL BE CLEANED OF ALL DEBRIS.
7. TESTING OF PRIVATE SANITARY PIPELINE SHALL BE IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE AND THE 2023 OREGON SPECIALTY PLUMBING CODE.
8. ALL SANITARY PIPELINE SHALL PASS THE REQUIRED AIR TEST, MANDREL TEST, AND COMPACTION TEST. ALL SANITARY PIPELINE SHALL BE VIDEO INSPECTED, AND BE FREE OF VISIBLE LEAKS. SANITARY MANHOLES SHALL BE TESTED USING THE HYDROSTATIC TEST OR THE VACUUM TEST.
9. TRACER WIRE - 12-GAUGE STRANDED OR SOLID COPPER INSULATED HIGH MOLECULAR WEIGHT POLYETHYLENE (HMW-PE) TRACER WIRE. THE HMW-PE INSULATED COVER SHALL BE GREEN AND A MINIMUM 45 MIL THICK. THE WIRE SHALL BE RATED FOR 140 DEGREES FAHRENHEIT. INSTALL TRACER WIRE IN ALL TRENCHES FOR SANITARY SEWERS. PLACE THE TRACER WIRE DIRECTLY OVER THE PIPE CENTERLINE AND ON TOP OF THE PIPE ZONE MATERIAL, PARALLEL TO, AND ALONG THE ENTIRE LENGTH OF ALL NONMETALLIC PIPE.

PRIVATE WATER AND FIRE SERVICE

1. ALL PIPE SHALL HAVE A MINIMUM OF 36" OF COVER MEASURED FROM FINISH GRADE.
2. PRIVATE WATER PIPE MATERIAL SHALL BE CL 52 DUCTILE IRON PIPE FOR PIPE SIZES 4" AND LARGER, AND PVC SCHEDULE 40 FOR PIPE SIZES 3" AND SMALLER.
3. FIRE SERVICE PIPE MATERIAL SHALL BE CL 50 DUCTILE IRON PIPE.
4. THE CONTRACTOR SHALL CALL FOR ALL INSPECTIONS AND PERFORM THE NECESSARY TESTING REQUIRED BY THE SPECIFICATIONS AND THE PRIVATE UTILITIES PERMIT. UPON COMPLETION OF THE INSTALLATION OF THE WATER SYSTEM ALL LINES SHALL BE FLUSHED AND DISINFECTED IN CONFORMANCE WITH HEALTH DIVISION GUIDELINES.
5. ALL WATERLINES, JOINTS, TEES, BENDS (HORIZ. & VERT.), REDUCERS AND VALVES SHALL BE MECHANICALLY RESTRAINED.
6. ALL WATER PIPE SHALL COMPLY WITH AWWA STANDARDS AND UL APPROVED.
7. TRACER WIRE - 12-GAUGE STRANDED OR SOLID COPPER INSULATED HIGH MOLECULAR WEIGHT POLYETHYLENE (HMW-PE) TRACER WIRE. THE HMW-PE INSULATED COVER SHALL BE GREEN AND A MINIMUM 45 MIL THICK. THE WIRE SHALL BE RATED FOR 140 DEGREES FAHRENHEIT. INSTALL TRACER WIRE IN ALL TRENCHES FOR WATER LINE. PLACE THE TRACER WIRE DIRECTLY OVER THE PIPE CENTERLINE AND ON TOP OF THE PIPE ZONE MATERIAL, PARALLEL TO, AND ALONG THE ENTIRE LENGTH OF ALL NONMETALLIC PIPE.

THESE DRAWINGS ARE THE ORIGINAL UNPUBLISHED WORK OF THE ARCHITECT AND MAY NOT BE DUPLICATED OR USED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.

Scott Edwards Architecture
2525 E Burnside St. 503.226.3617
Portland, OR 97214 seallp.com

REGISTERED PROFESSIONAL ENGINEER
87-040
OREGON
SEPT. 15, 2023
ALEXANDER J. SIMPSON
EXPIRES: 06/30/2026

WEST LINN OPERATIONS COMPLEX

Job Number: 23028

WEST LINN, OR

HHPR Harper Houf Peterson Righellis Inc.
ENGINEERS • PLANNERS
LANDSCAPE ARCHITECTS • SURVEYORS
205 SE Spokane Street, Suite 200, Portland, OR 97202
phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

100% CONSTRUCTION DOCUMENTATION	03.20.2026

ISSUE	DATE

Drawing:

COVER SHEET & GENERAL NOTES

Sheet No:

C0.0

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CONSTRUCTION NOTES

1. REMOVE EXISTING TREE.
2. PROPOSED TREE PROTECTION FENCING. REFER TO LANDSCAPE PLANS.
3. REMOVE EXISTING FENCE.
4. REMOVE EXISTING SIGN.



LEGEND

- TREE REMOVAL
- TREE PROTECTION FENCING
- EXISTING ROW/PROPERTY LINE
- WETLAND BOUNDARY
- NATURAL RESOURCES BUFFER
- EXISTING CONTOUR

0 20 40 80

SCALE: 1" = 40'

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Scott Edwards Architecture
2525 E Burnside St. Portland, OR 97214
503.226.3617 seallp.com

REGISTERED PROFESSIONAL ENGINEER
87490
OREGON
SEPT. 13, 2019
ALEXANDER J. SIMPSON
EXPIRES: 06/30/2026

WEST LINN OPERATIONS COMPLEX

Job Number: 23028

WEST LINN, OR

HHPR Harper Houf Peterson Righellis Inc.
ENGINEERS • PLANNERS
LANDSCAPE ARCHITECTS • SURVEYORS
205 SE Spokane Street, Suite 200, Portland, OR 97202
phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

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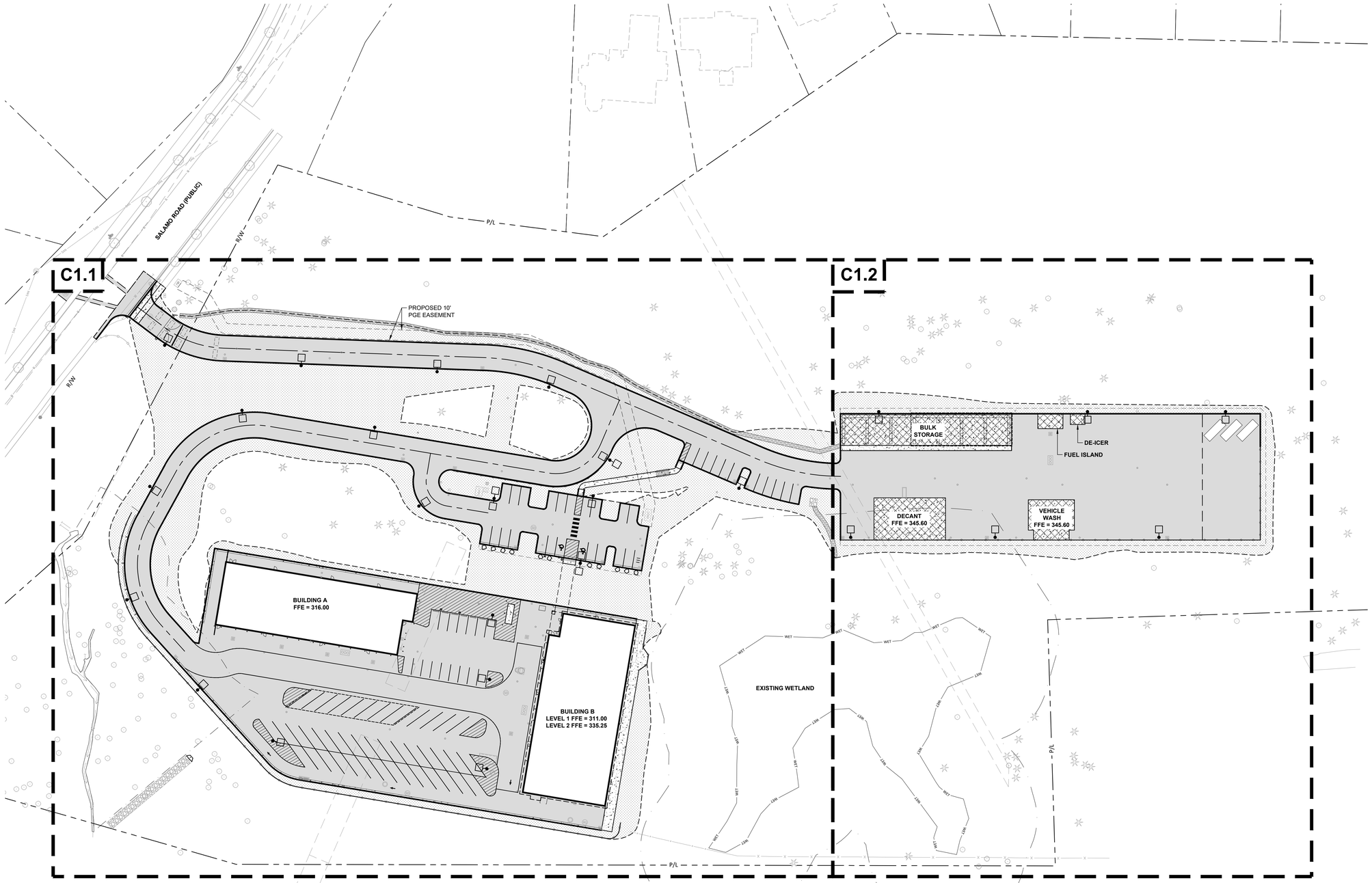
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EXISTING CONDITIONS & DEMOLITION PLAN

Sheet No:

C0.5

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LEGEND

- ASPHALT CONCRETE (AC). SEE SHEET C5.0.
- CONCRETE SIDEWALK. SEE SHEET C5.0.
- STRUCTURAL CONCRETE PAD. REFER TO STRUCTURAL PLANS.
- LANDSCAPING
- EXISTING ROW/PROPERTY LINE
- GRADING LIMITS
- WETLAND BOUNDARY
- NATURAL RESOURCES BUFFER

SCALE: 1" = 40'

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Scott Edwards Architecture
2525 E Burnside St. 503.226.3617
Portland, OR 97214 seallp.com

REGISTERED PROFESSIONAL ENGINEER
87490
OREGON
SEPT. 13, 2024
ALEXANDER J. SIMPSON
EXPIRES: 06/30/2026

WEST LINN OPERATIONS COMPLEX

Job Number: 23028

WEST LINN, OR

HHPR Harper Houf Peterson Righellis Inc.
ENGINEERS • PLANNERS
LANDSCAPE ARCHITECTS • SURVEYORS
205 SE Spokane Street, Suite 200, Portland, OR 97202
phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

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Drawing:

OVERALL SITE PAVING & STRIPING PLAN

Sheet No:

C1.0

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PUBLIC PARKING LANDSCAPE AREA

TOTAL PUBLIC PARKING AREA = 11,181 SF
REQUIRED LANDSCAPE AREA PER WL CDC 54.020.B.3 = 1,118 SF
PUBLIC PARKING LANDSCAPE AREA = 1,192 SF

CONSTRUCTION NOTES

1. PROPOSED SAWCUT. MATCH EXISTING PAVEMENT SECTION.
2. CONSTRUCT DRIVEWAY PER WL STD. DWG WL-RD736 ON SHEET C5.0.
3. CONSTRUCT ASPHALT PAVEMENT PER SECTION DETAIL ON SHEET C5.0 AND TYPICAL SECTION ON SHEET C2.0.
4. CONSTRUCT TYPE 2A GUARDRAIL WITH TYPE B ENDPIECES PER ODOT STD. DWGS. RD400 AND RD417 ON SHEET C5.5.
5. INSTALL 6" WIDE RED STRIPE ON PAVEMENT WITH WHITE "NO PARKING - FIRE LANE" STENCILING EVERY 25' PER OFC D103.6 ALONG FIRE ACCESS ROUTE AND DETAIL ON SHEET C5.0.
6. INSTALL 30' TOTAL WIDTH, DUAL, MOTORIZED SWING GATES. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ENGINEER REVIEW PRIOR TO ORDERING. GATE SYSTEM BASIS OF DESIGN TO INCLUDE: LIFTMASTER ELITE HIGH-CYCLE SWING GATE OPENER (X2) WITH BATTERY BACKUP, LIFTMASTER INFRARED EYES, MAGNETIC LOCK, VEHICLE PRESENCE LOOPS, DETECTOR MODULES, GOOSENECK PEDESTAL WITH CARD READER AND EXTENSION FOR CAMERA MOUNT. SYSTEM SHALL ALSO INCLUDE PROVISION FOR REMOTE GATE ENTRY OPENERS FOR UP TO 40 VEHICLES, RITRON WIRELESS INTERCOMS, AND CAMERA WITH TIE-IN TO ACCESS CONTROL.
7. CONSTRUCT STANDARD CURB PER WL STD. DWG WL-RD700 ON SHEET C5.0.
8. CONSTRUCT CURB AND GUTTER PER WL STD. DWG WL-RD700 ON SHEET C5.0.
9. INSTALL SIGN POST WITH ACCESSIBLE PARKING SIGN PER DETAIL ON SHEET C5.0.
10. PROPOSED STRUCTURAL RETAINING WALL WITH FALL-PROTECTION RAILING. REFER TO SHEET C2.7 FOR WALL PROFILE. SITE RETAINING WALLS TO BE DELEGATED DESIGN-BUILD. CONTRACTOR TO PROVIDE SHOP DRAWING SUBMITTALS AND CALCULATIONS TO DESIGN TEAM FOR REVIEW PRIOR TO CONSTRUCTION.
11. PROPOSED COVERED PARKING STRUCTURE. REFER TO ARCHITECTURAL PLANS.
12. PROPOSED CONCRETE GENERATOR SLAB. REFER TO SHEET C2.5 FOR GRADING DETAILS. REFER TO ELECTRICAL PLANS FOR GENERATOR DETAILS.
13. PROPOSED S106 VAULT AND TRANSFORMER. REFER TO ELECTRICAL PLANS.
14. PROPOSED PEDESTRIAN BRIDGE. REFER TO ARCHITECTURAL PLANS.
15. CONSTRUCT CONCRETE SIDEWALK PER DETAIL ON SHEET C5.0.
16. CONSTRUCT BOLLARD PER DETAIL ON SHEET C5.0.
17. CONSTRUCT DEEPEND CURB PER DETAIL ON SHEET C5.0.
18. PROPOSED 4-YARD DUMPSTER PAD. REFER TO SHEET C2.5 FOR GRADING DETAILS.
19. INSTALL 4" WHITE PARKING STALL STRIPING. THE NUMBER OF STALLS IN EACH AREA IS SHOWN NEXT TO KEYNOTE (X). REFER TO SHEET C5.0 FOR STRIPING DETAILS.
20. INSTALL 30" MINIMUM DIAMETER BOULDER. EMBED BOULDER MINIMUM OF 12" DEEP (TYP).
21. CONSTRUCT STAIRCASE PER DETAIL ON SHEET C5.0. REFER TO SHEET C2.1 FOR GRADING DETAILS.
22. PROPOSED ADA PARKING STALL STRIPING. THE NUMBER OF STALLS IN EACH AREA IS SHOWN NEXT TO KEYNOTE (X). REFER TO SHEET SERIES C2.1 FOR GRADING DETAILS AND SHEET C5.0 FOR STRIPING DETAILS.
31. PROPOSED STREET LIGHT. REFER TO ELECTRICAL PLANS.
32. INSTALL RED PAINTED CURB WITH WHITE "NO PARKING - FIRE LANE" STENCILING EVERY 25' PER OFC D103.6 ALONG FIRE ACCESS ROUTE AND DETAIL ON SHEET C5.0.
33. PROPOSED ELECTRIC VEHICLE CHARGER. REFER TO ELECTRICAL PLANS FOR DETAILS.
34. CONSTRUCT WHEELSTOP PER DETAIL ON SHEET C5.0.
35. INSTALL TACTILE WARNING SURFACE PER DETAIL ON SHEET C5.0.
36. PROPOSED DIRECTIONAL MARKING.
37. CONSTRUCT MODIFIED CURB AND GUTTER PER DETAIL ON SHEET C5.0.
38. PROPOSED CARPOOL PARKING STALL STRIPING. THE NUMBER OF STALLS IN EACH AREA IS SHOWN NEXT TO KEYNOTE (X). REFER TO SHEET C5.0 FOR STRIPING DETAILS.
39. PROPOSED BIKE RACK AND BIKE PARKING STALL. THE NUMBER OF STALLS IN EACH AREA IS SHOWN NEXT TO KEYNOTE (X). REFER TO ARCHITECTURAL PLANS FOR DETAILS.
40. INSTALL EXIT DETECTOR LOOP.
41. INSTALL 12" THERMOPLASTIC STOP BAR.
42. REMOVE AND RE-INSTALL EXISTING SHARED-USE PATH, LANDSCAPE STRIP, AND CURB. MATCH EXISTING CONDITIONS.
43. CONSTRUCT MODIFIED CURB PER DETAIL ON SHEET C5.0.

SALAMO ROAD (PUBLIC)
CLEAR VISION AREA
ACCESS ROAD A. REFER TO SHEET C2.0 FOR PROFILE.
PROPOSED 10' PGE EASEMENT
ACCESS ROAD B. REFER TO SHEET C2.0 FOR PROFILE.
GRADING LIMITS (TYP)
ACCESS ROAD C. REFER TO SHEET C2.0 FOR PROFILE.
BUILDING A
FFE = 316.00
BUILDING B
LEVEL 1 FFE = 311.00
LEVEL 2 FFE = 335.25
90.4' WALL 1
656.4' WALL 3
458.7' STANDARD CURB AND GUTTER
198.1' MODIFIED CURB AND GUTTER
408.5'
129.3' MODIFIED CURB
80.6' MODIFIED CURB AND GUTTER
71.8' MODIFIED CURB AND GUTTER
END MODIFIED CURB AND GUTTER, BEGIN MODIFIED CURB
END MODIFIED CURB, BEGIN MODIFIED CURB AND GUTTER
END MODIFIED CURB AND GUTTER
BEGIN MODIFIED CURB AND GUTTER
BEGIN STANDARD CURB AND GUTTER
WALL 4
NATURAL RESOURCES BUFFER
WETLAND BOUNDARY
PROPOSED BUILDING B STAIRS. REFER TO ARCHITECTURAL PLANS.
APPROXIMATE LOCATION OF 20.00' DRAIN EASEMENT FOR THE BENEFIT OF THE CITY OF WEST LINN PER BOOK 231, PAGE 377, 4-9-1936
END STANDARD CURB AND GUTTER
GRADING LIMITS (TYP)
P/L

MATCHLINE - SEE SHEET C1.2

LEGEND

- ASPHALT CONCRETE (AC). SEE SHEET C5.0.
- CONCRETE SIDEWALK. SEE SHEET C5.0.
- LANDSCAPING. REFER TO LANDSCAPE PLANS
- EXISTING ROW/PROPERTY LINE
- GRADING LIMITS
- WETLAND BOUNDARY
- NATURAL RESOURCES BUFFER
- SAWCUT
- PROPOSED FLOW LINE
- RED PAINTED CURB AT FIRE LANE
- SIGN - SINGLE POST
- BOLLARD
- PROPOSED SITE LIGHT REFER TO ELECTRICAL
- GATE OPERATOR
- GOOSENECK PEDESTAL WITH CARD READER

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SCALE: 1" = 20'

Scott Edwards Architecture
2525 E Burnside St. 503.226.3617
Portland, OR 97214 seallp.com

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 13, 2010
ALEXANDER J. SIMPSON
EXPIRES: 06/30/2026

WEST LINN OPERATIONS COMPLEX

Job Number: 23028

WEST LINN, OR

Harper Houf Peterson Righellis Inc.
ENGINEERS • PLANNERS
LANDSCAPE ARCHITECTS • SURVEYORS
205 SE Spokane Street, Suite 200, Portland, OR 97202
phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

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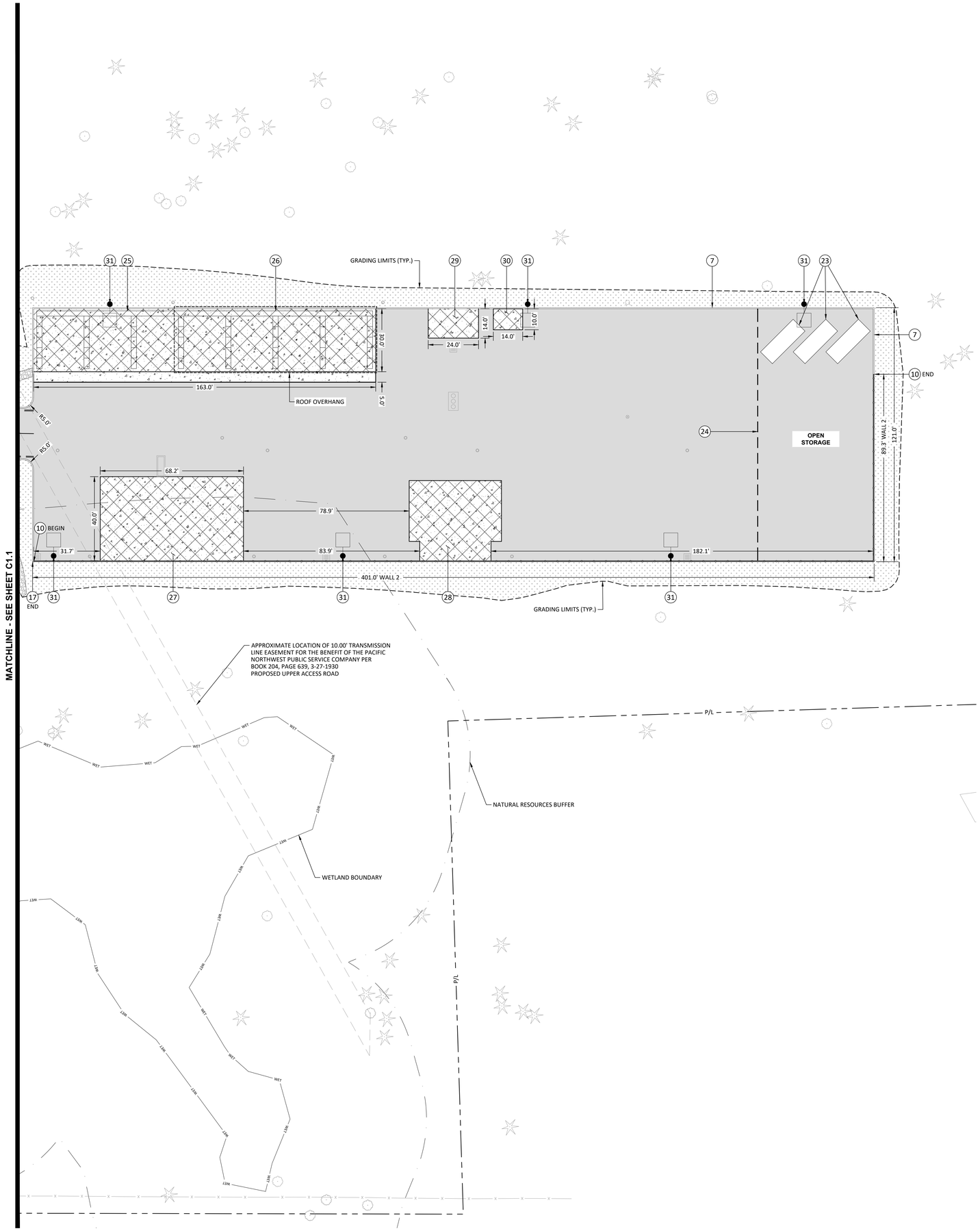
Drawing:

WEST SITE PLAN

Sheet No:

C1.1

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CONSTRUCTION NOTES

7. CONSTRUCT STANDARD CURB PER WL STD. DWG WL-RD700 ON SHEET C5.0.
10. PROPOSED STRUCTURAL RETAINING WALL WITH FALL-PROTECTION RAILING. REFER TO SHEET C2.7 FOR WALL PROFILE. SITE RETAINING WALLS TO BE DELEGATED DESIGN-BUILD. CONTRACTOR TO PROVIDE SHOP DRAWING SUBMITTALS AND CALCULATIONS TO DESIGN TEAM FOR REVIEW PRIOR TO CONSTRUCTION.
17. CONSTRUCT DEEPEND CURB PER DETAIL ON SHEET C5.0.
23. PROPOSED 40-YARD DUMPSTER. REFER TO SHEET C2.3 FOR GRADING DETAILS.
24. INSTALL 4" WHITE SKIPPED PAVEMENT MARKING.
25. (3) UNCOVERED ULTRABLOCK BAYS FOR MATERIAL STOCKPILE/STORAGE. REFER TO STRUCTURAL PLANS FOR CONCRETE SLAB DETAILS.
26. (4) COVERED ULTRABLOCK BAYS FOR MATERIAL STOCKPILE/STORAGE. REFER TO ARCHITECTURAL PLANS FOR CANOPY DETAILS. REFER TO STRUCTURAL PLANS FOR CONCRETE SLAB DETAILS.
27. PROPOSED DECANT STRUCTURE. REFER TO ARCHITECTURAL PLANS.
28. PROPOSED VEHICLE WASH STRUCTURE. REFER TO ARCHITECTURAL PLANS.
29. FUELING AREA, DESIGN-BUILD BY OTHERS. TANK AND PUMP OWNER-FURNISHED, OWNER-INSTALLED. CONCRETE SLAB DESIGN BY OTHERS.
30. PROPOSED DE-ICER. REFER TO ARCHITECTURAL PLANS.
31. PROPOSED STREET LIGHT. REFER TO ELECTRICAL PLANS.

LEGEND

- ASPHALT CONCRETE (AC). SEE SHEET C5.0.
- CONCRETE SIDEWALK. SEE SHEET C5.0.
- STRUCTURAL CONCRETE PAD. REFER TO STRUCTURAL PLANS.
- LANDSCAPING. REFER TO LANDSCAPE PLANS
- EXISTING ROW/PROPERTY LINE
- GRADING LIMITS
- WETLAND BOUNDARY
- NATURAL RESOURCES BUFFER
- SAWCUT
- RED PAINTED CURB AT FIRE LANE
- SIGN - SINGLE POST
- BOLLARD
- PROPOSED SITE LIGHT REFER TO ELECTRICAL

Scott Edwards Architecture
2525 E Burnside St. 503.226.3617
Portland, OR 97214 seallp.com

REGISTERED PROFESSIONAL ENGINEER
87490
OREGON
SEPT. 13, 2013
ALEXANDER J. SIMPSON
EXPIRES: 06/30/2026

WEST LINN OPERATIONS COMPLEX

Job Number: 23028

WEST LINN, OR

HHPR Harper Houf Peterson Righellis Inc.
ENGINEERS • PLANNERS
LANDSCAPE ARCHITECTS • SURVEYORS
205 SE Spokane Street, Suite 200, Portland, OR 97202
phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

0 10 20 40
SCALE: 1" = 20'

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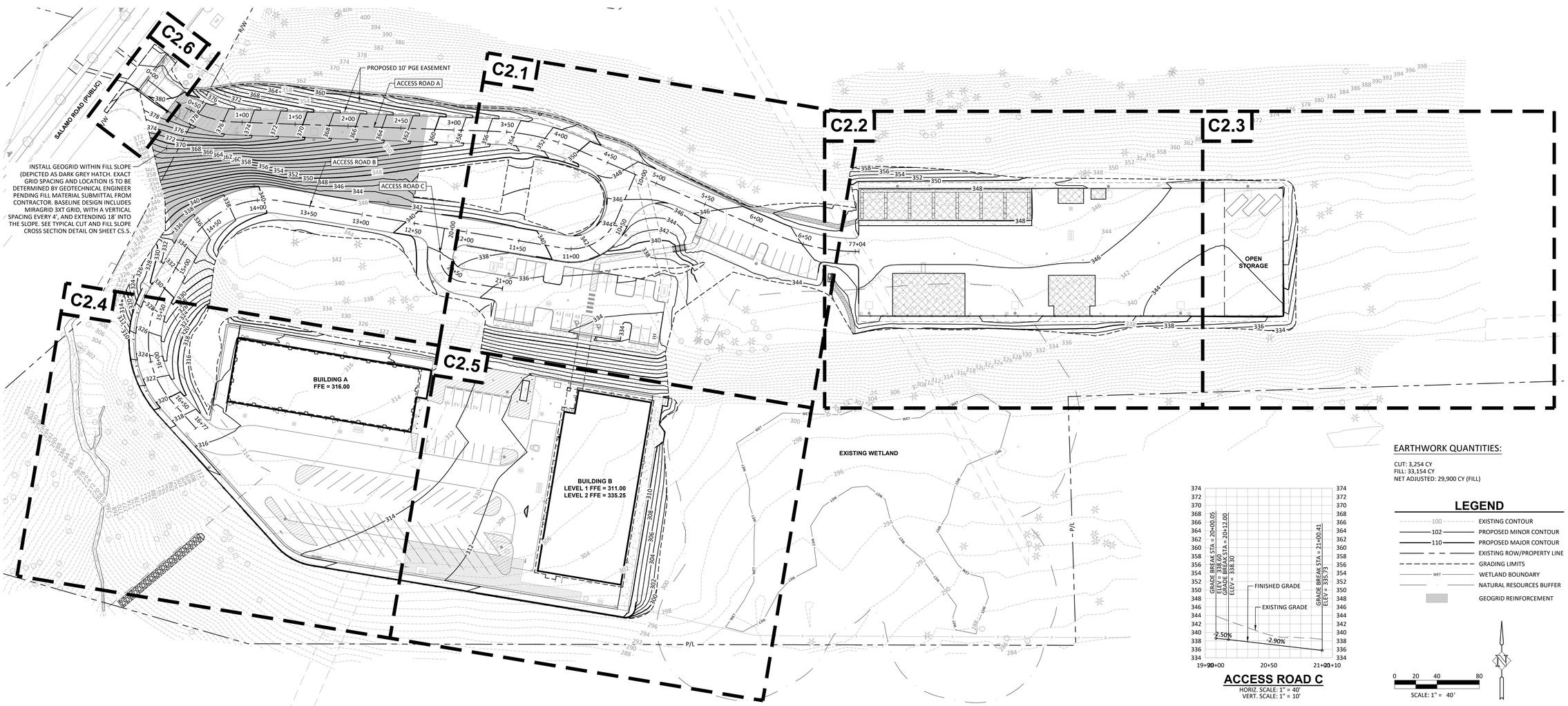
EAST SITE PLAN

Sheet No:

C1.2

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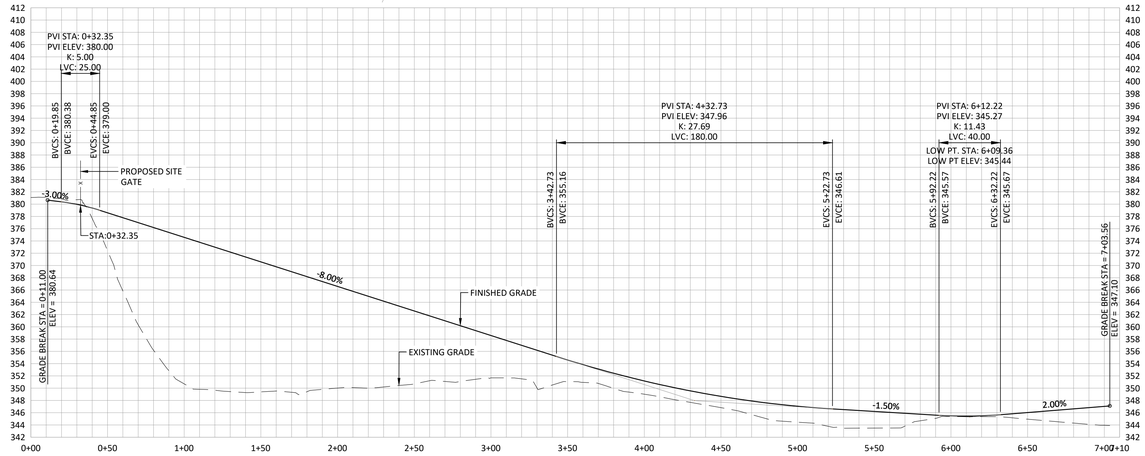
CUT: 3,254 CY
FILL: 33,154 CY
NET ADJUSTED: 29,900 CY (FILL)

LEGEND

- EXISTING CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- EXISTING ROW/PROPERTY LINE
- GRADING LIMITS
- WETLAND BOUNDARY
- NATURAL RESOURCES BUFFER
- GEOGRID REINFORCEMENT

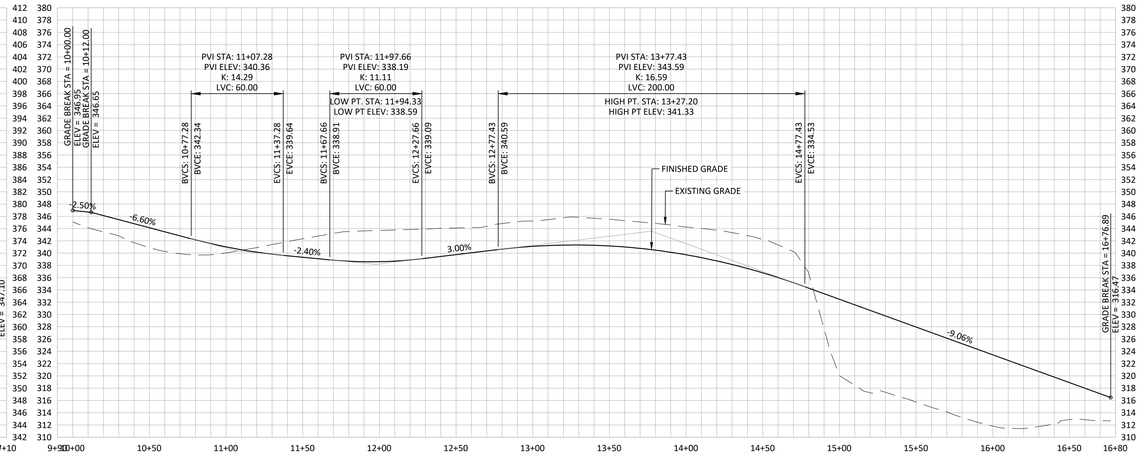
ACCESS ROAD C

HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 10'



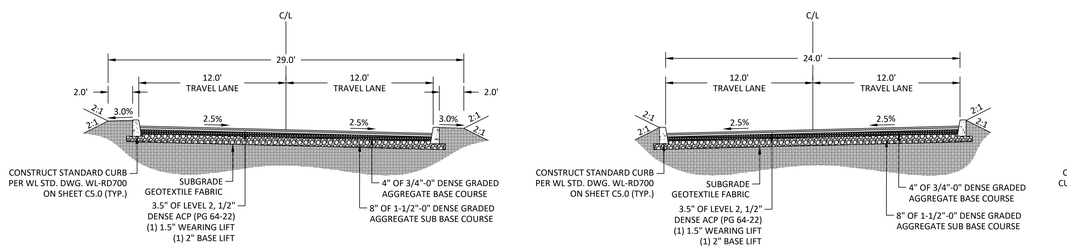
ACCESS ROAD A

HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 10'



ACCESS ROAD B

HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 10'

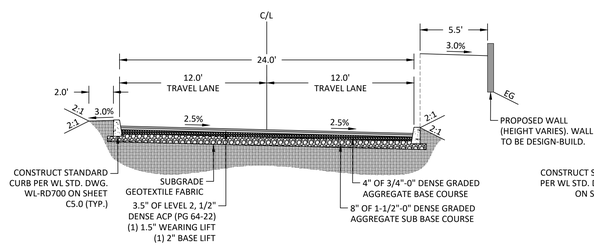


ACCESS ROAD A - TYPICAL SECTION

STA: 0+11.00 - 4+32.73
STA: 5+24.73 - 5+48.22
STA: 6+72.98 - 7+03.50

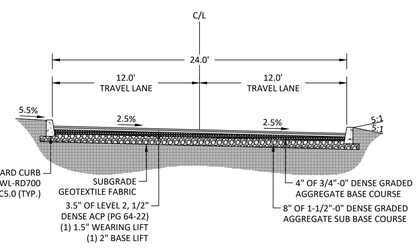
ACCESS ROAD B - TYPICAL SECTION

SHED LEFT
STA: 10+46.00 - 10+64.84
STA: 12+44.66 - 13+77.43



ACCESS ROAD B - TYPICAL SECTION

SHED RIGHT
STA: 14+82.35 - 15+37.27 (NO WALL)
STA: 15+37.27 - 16+76.89 (WALL)



ACCESS ROAD C - TYPICAL SECTION

STA: 20+23.50 - 20+93.15

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Scott Edwards Architecture
2525 E Burnside St. 503.226.3617
Portland, OR 97214 seallp.com

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 13, 2010
ALEXANDER J. SIMPSON
EXPIRES: 06/30/2026

WEST LINN OPERATIONS COMPLEX

Job Number: 23028

WEST LINN, OR

Harper Houf Peterson Righellis Inc.
ENGINEERS • PLANNERS
LANDSCAPE ARCHITECTS • SURVEYORS
205 SE Spokane Street, Suite 200, Portland, OR 97202
phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

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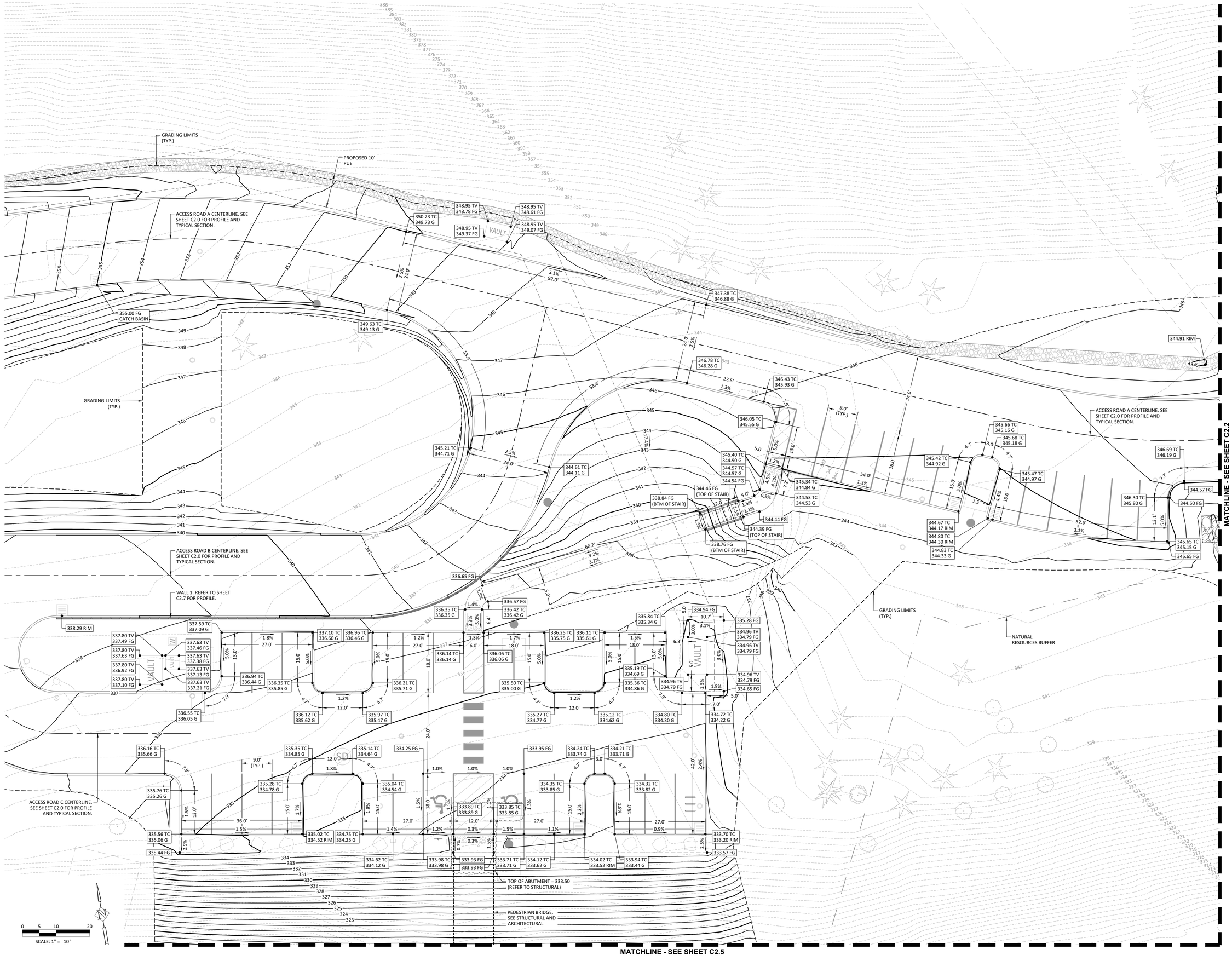
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OVERALL GRADING PLAN AND ACCESS ROAD PROFILES

Sheet No:

C2.0

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2525 E Burnside St. 503.226.3617
Portland, OR 97214 seallp.com

REGISTERED PROFESSIONAL ENGINEER
87490
OREGON
JULY 15, 2025
ALEXANDER J. SIMPSON
EXPIRES: 06/30/2026

WEST LINN OPERATIONS COMPLEX

Job Number: 23028

WEST LINN, OR

Harper Houf Peterson Righellis Inc.
ENGINEERS • PLANNERS
LANDSCAPE ARCHITECTS • SURVEYORS
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phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

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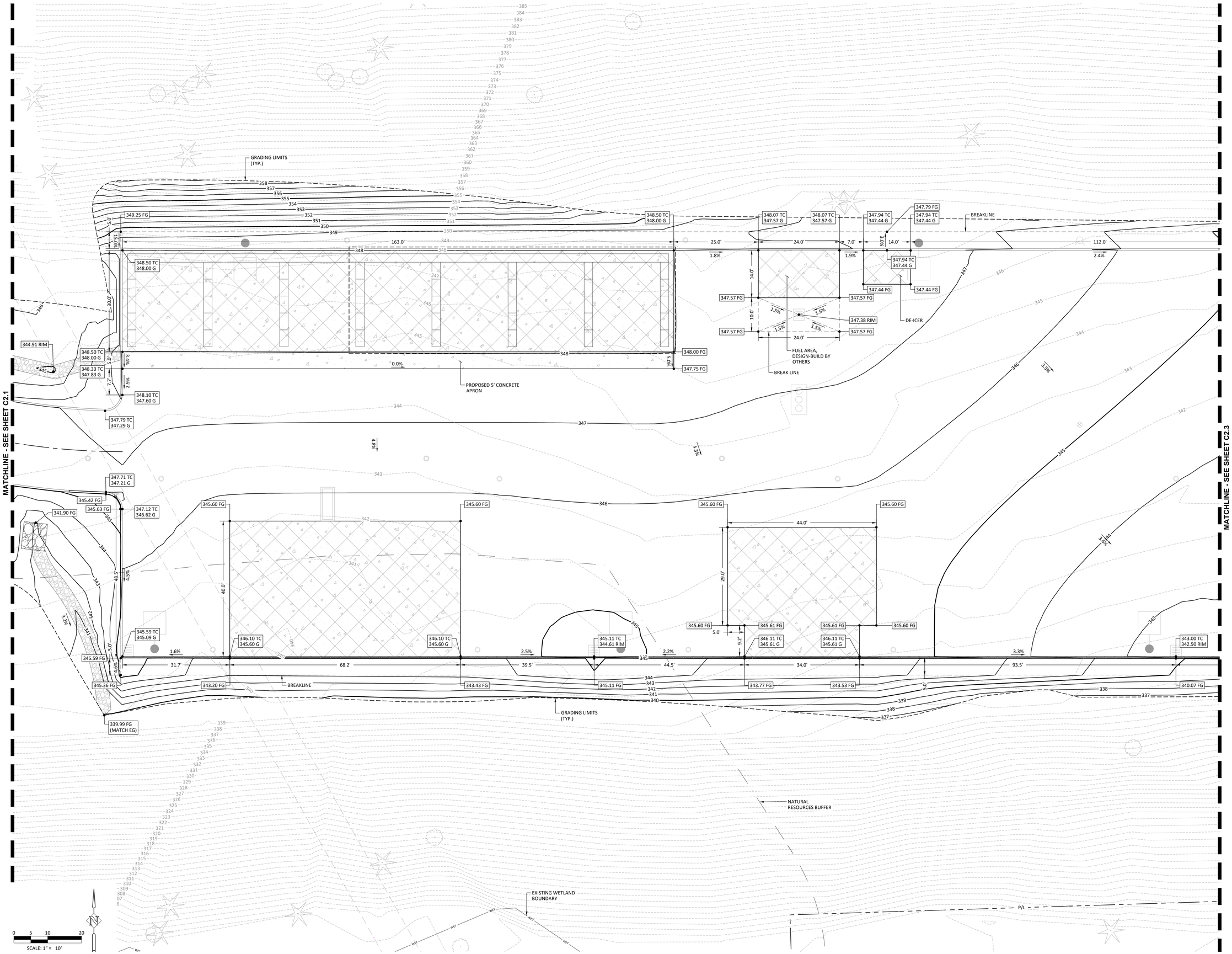
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GRADING PLAN

Sheet No:

C2.1

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Scott Edwards Architecture
2525 E Burnside St. 503.226.3617
Portland, OR 97214 seallp.com

REGISTERED PROFESSIONAL ENGINEER
87490
OREGON
DEC. 13, 2013
ALEXANDER J. SIMPSON
EXPIRES: 06/30/2026

WEST LINN OPERATIONS COMPLEX

Job Number: 23028

WEST LINN, OR

Harper Houf Peterson Righellis Inc.
ENGINEERS • PLANNERS
LANDSCAPE ARCHITECTS • SURVEYORS
205 SE Spokane Street, Suite 200, Portland, OR 97202
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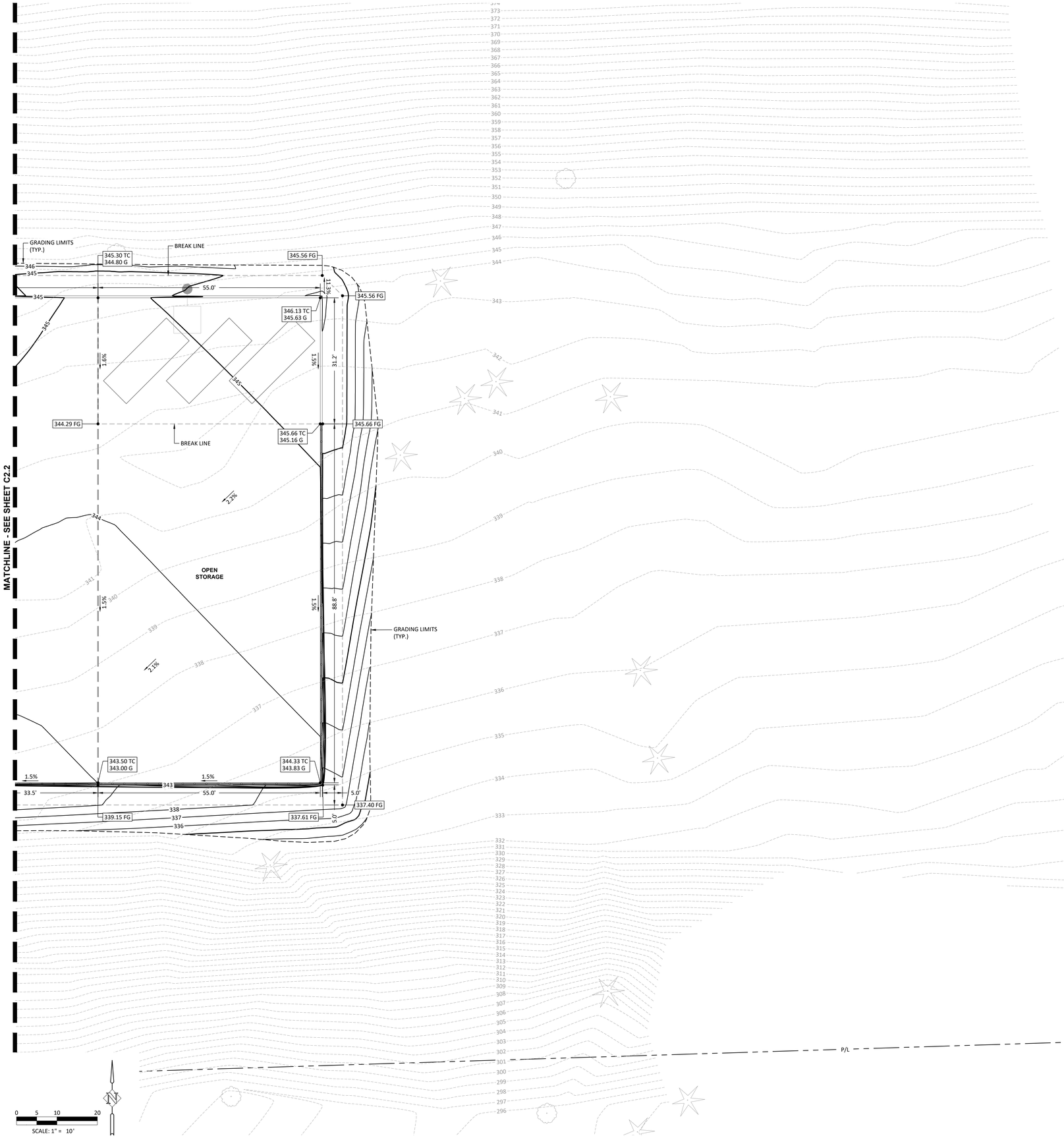
Drawing:

GRADING PLAN

Sheet No:

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2525 E Burnside St. 503.226.3617
Portland, OR 97214 seallp.com

REGISTERED PROFESSIONAL ENGINEER
87440
OREGON
SEPT. 13, 2013
ALEXANDER J. SIMPSON
EXPIRES: 06/30/2026

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WEST LINN, OR

HHPR Harper Houf Peterson Righellis Inc.
ENGINEERS • PLANNERS
LANDSCAPE ARCHITECTS • SURVEYORS
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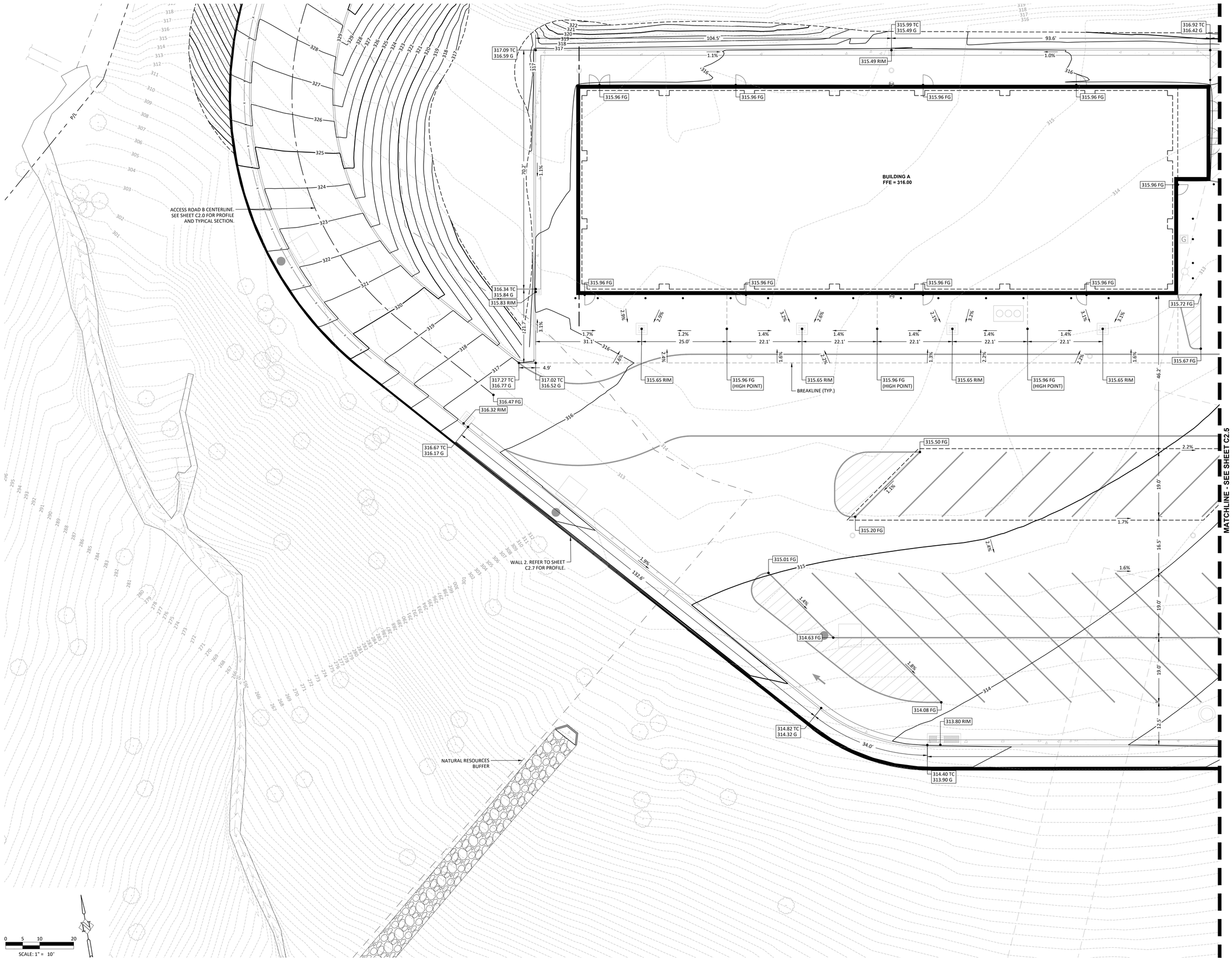
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Drawing:

GRADING PLAN

Sheet No:

C2.3



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2525 E Burnside St. 503.226.3617
Portland, OR 97214 seallp.com

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 13, 2012
ALEXANDER J. SIMPSON
EXPIRES: 06/30/2026

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ENGINEERS • PLANNERS
LANDSCAPE ARCHITECTS • SURVEYORS
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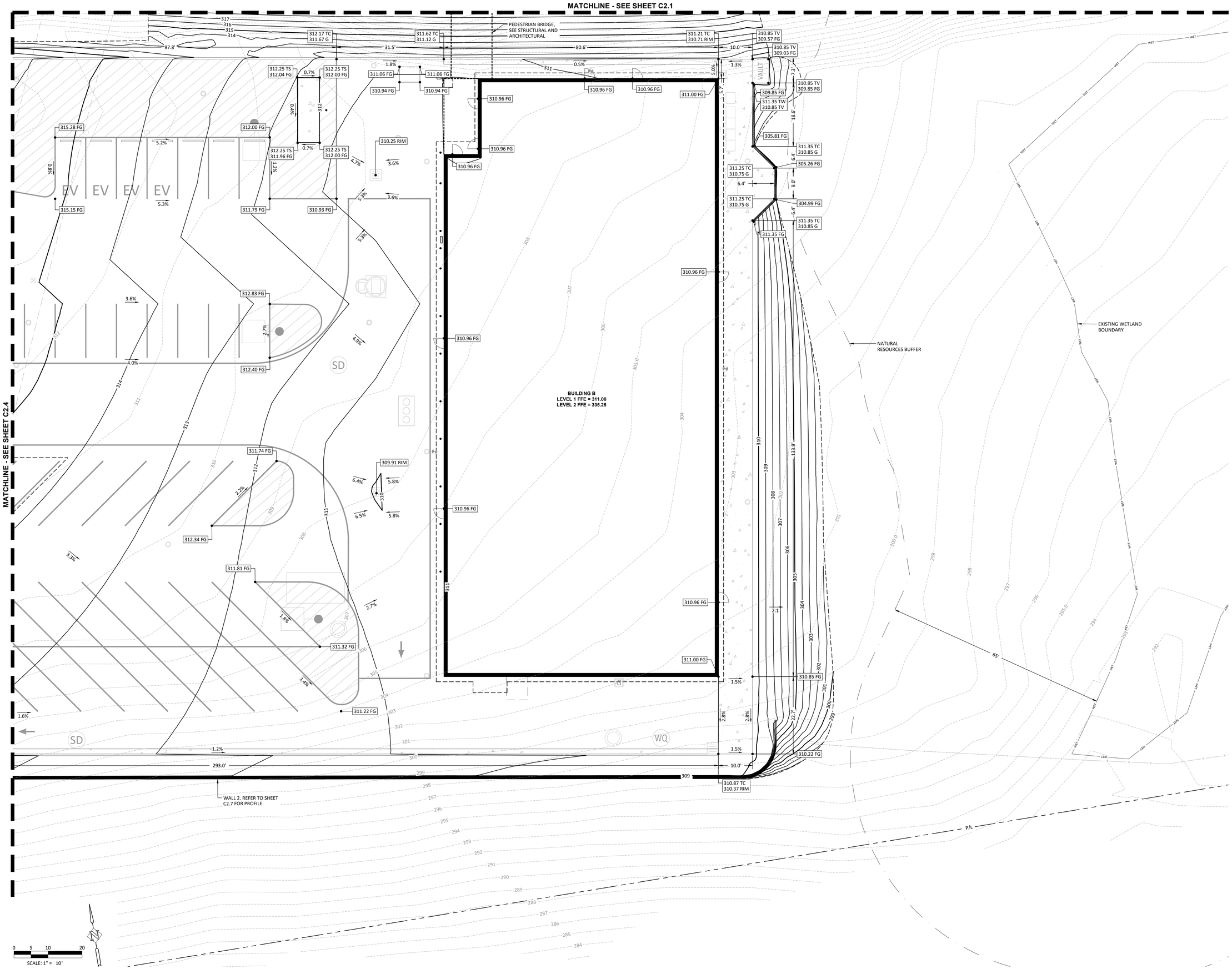
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GRADING PLAN

Sheet No:

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2525 E Burnside St. 503.226.3617
Portland, OR 97214 seallp.com

REGISTERED PROFESSIONAL ENGINEER
OREGON
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ENGINEERS • PLANNERS
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205 SE Spokane Street, Suite 200, Portland, OR 97202
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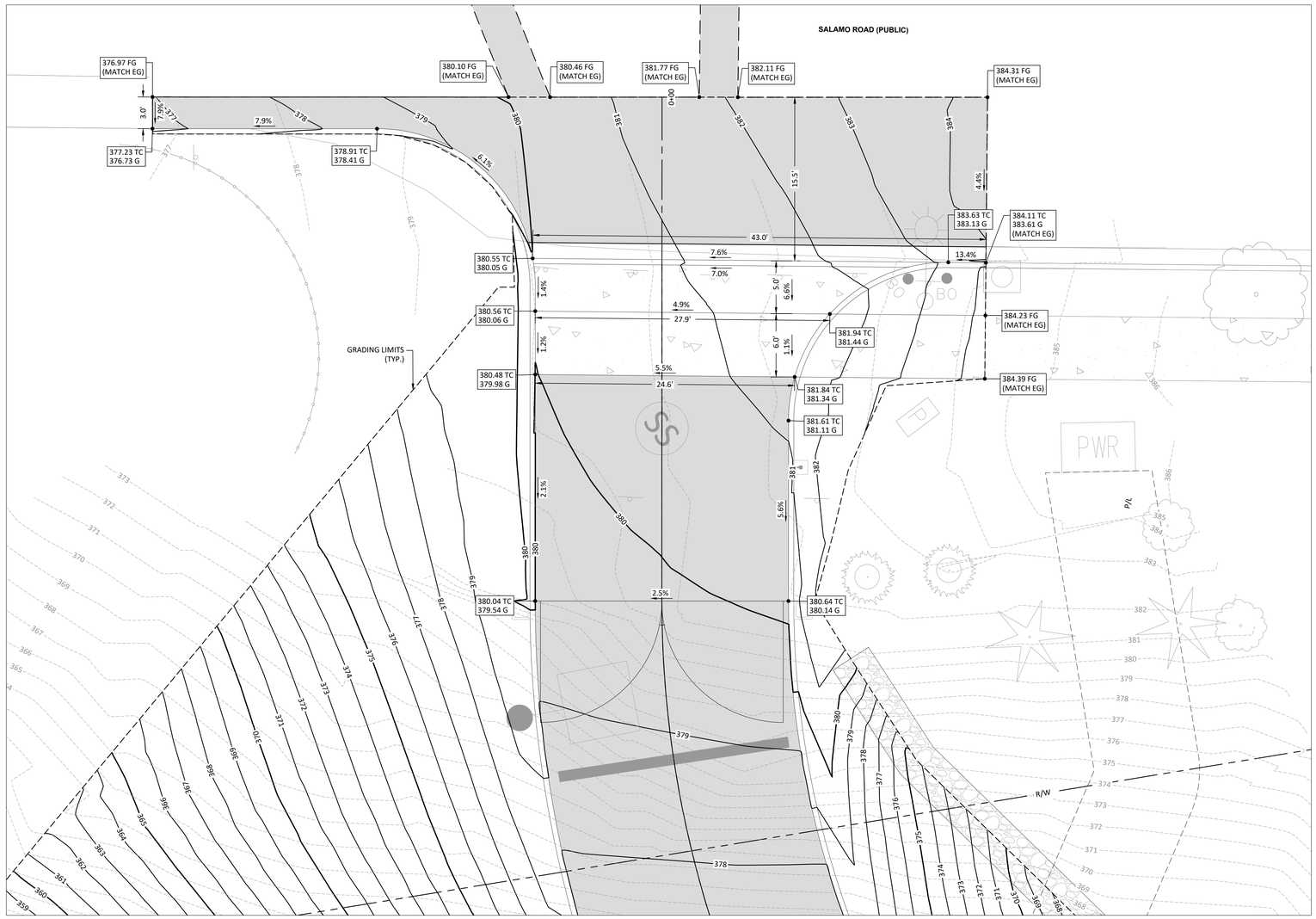
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GRADING PLAN

Sheet No:

C2.5

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PUBLIC GRADING - DETAIL

SCALE: 1" = 5'

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2525 E Burnside St. Portland, OR 97214
503.226.3617 seallp.com

REGISTERED PROFESSIONAL ENGINEER
87490
OREGON
SEPT. 13, 2013
ALEXANDER J. SIMPSON
EXPIRES: 06/30/2026

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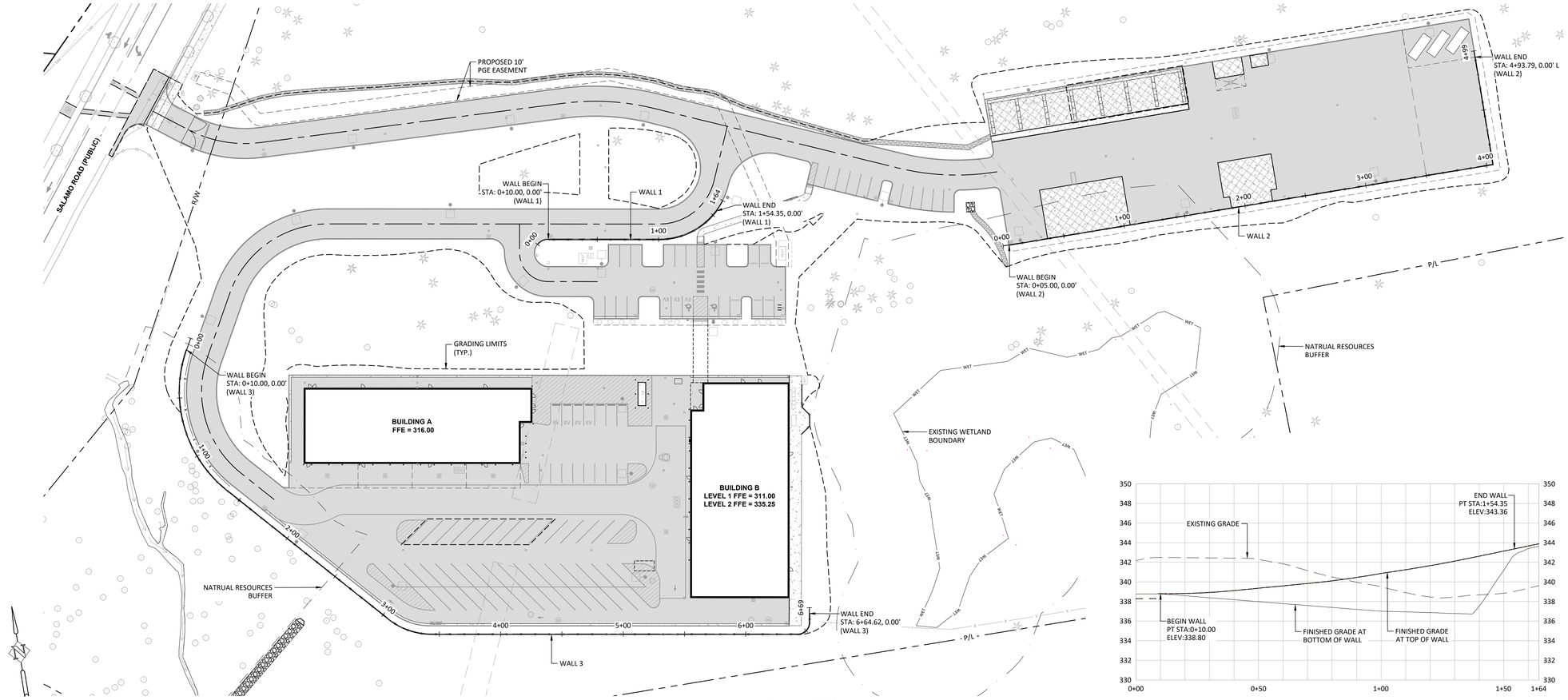
PUBLIC GRADING DETAILS

Sheet No:

C2.6

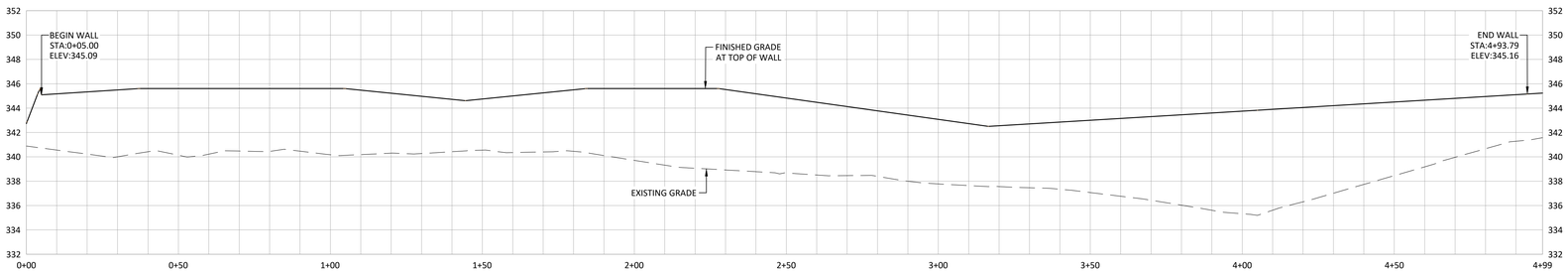
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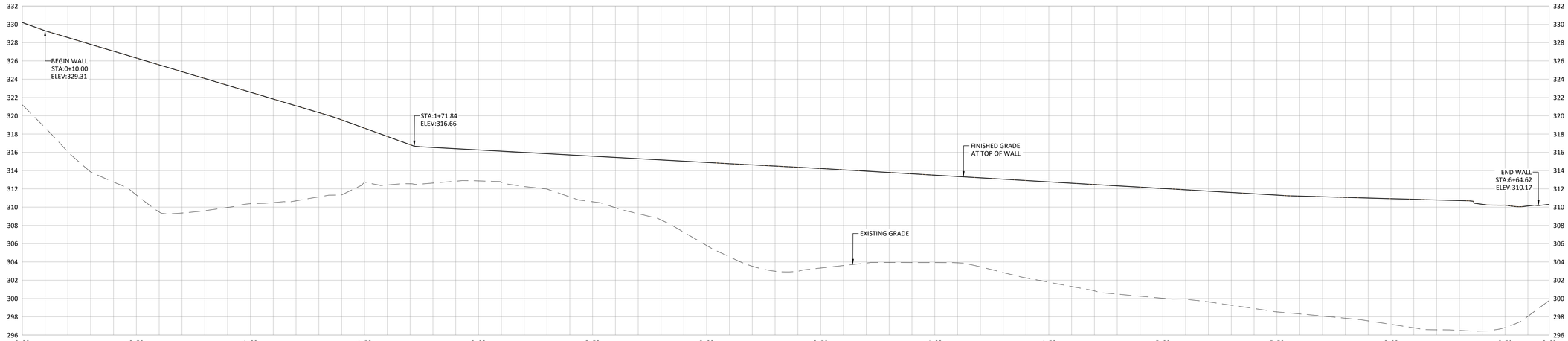


PLAN VIEW
SCALE: 1" = 40'

WALL 1 - PROFILE
HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 5'



WALL 2 - PROFILE
HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 5'



WALL 3 - PROFILE
HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 5'

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2525 E Burnside St. 503.226.3617
Portland, OR 97214 seallp.com

REGISTERED PROFESSIONAL ENGINEER
87490
OREGON
JULY 13, 2012
ALEXANDER J. SIMPSON
EXPIRES: 06/30/2026

WEST LINN OPERATIONS COMPLEX

Job Number: 23028

WEST LINN, OR

Harper Houf Peterson Righellis Inc.
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205 SE Spokane Street, Suite 200, Portland, OR 97202
phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

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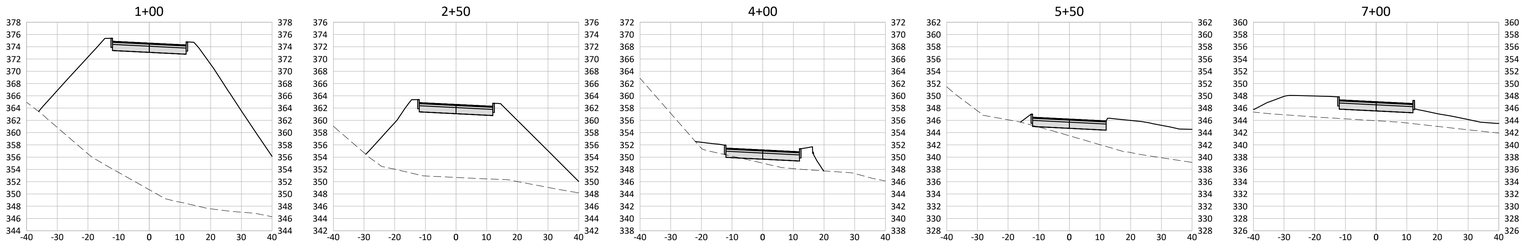
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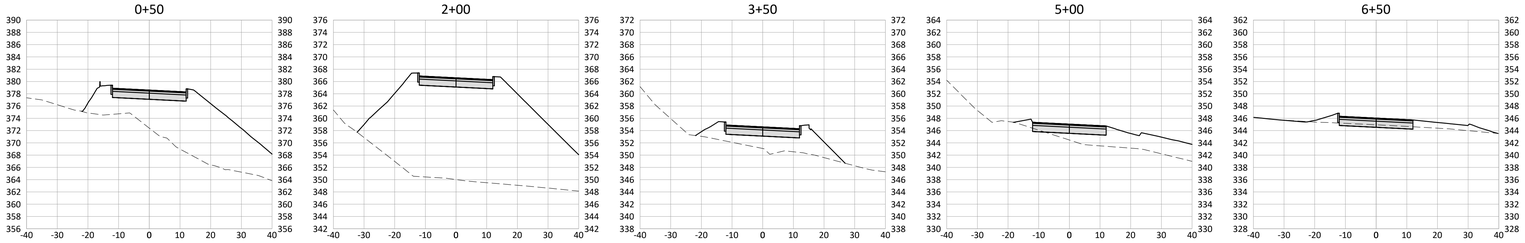
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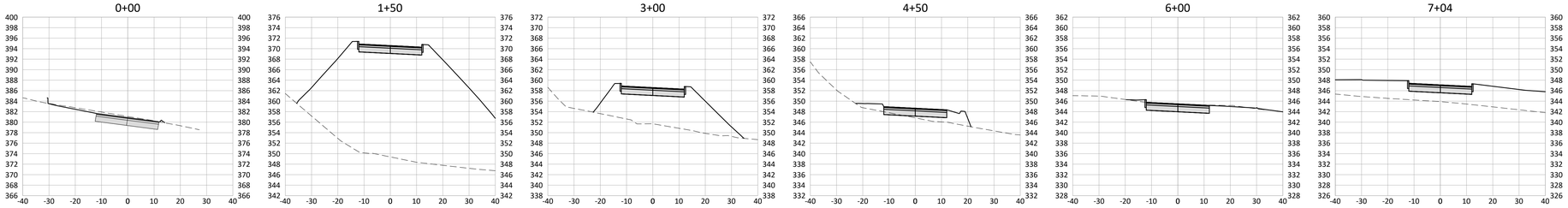
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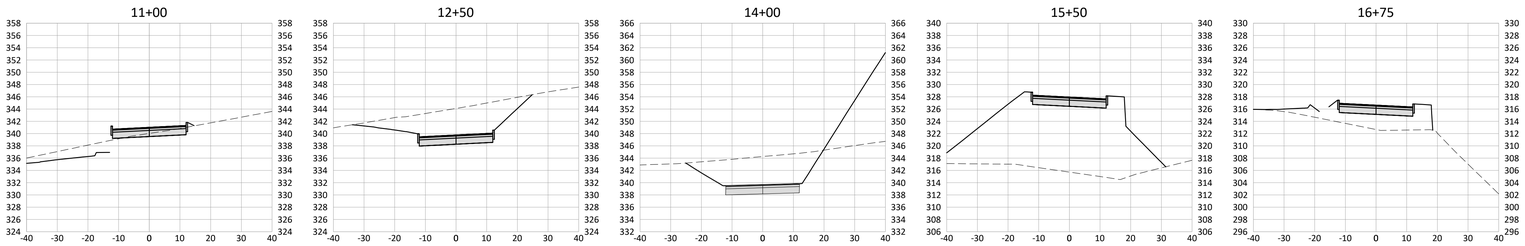


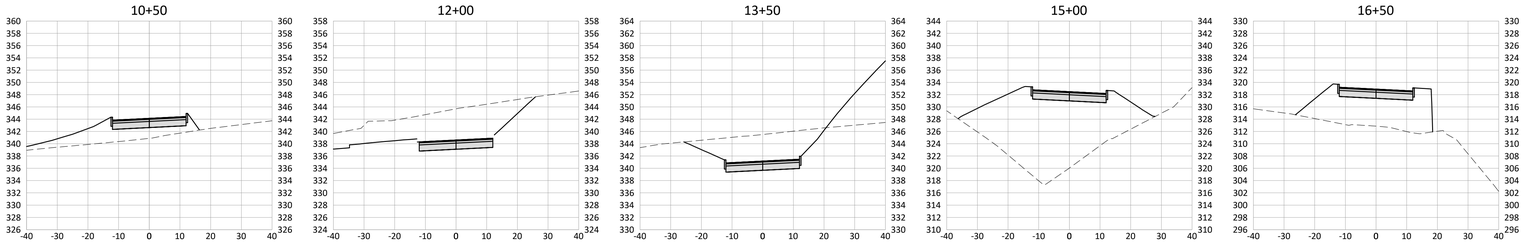


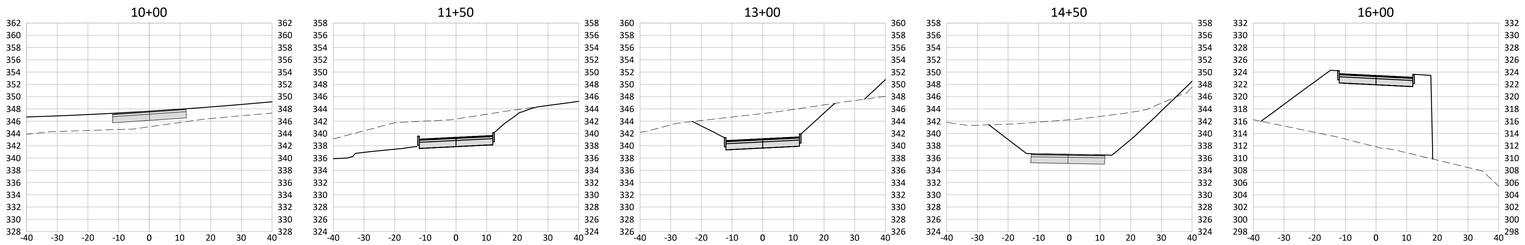


ACCESS ROAD A - CROSS SECTIONS

HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 10'







ACCESS ROAD B - CROSS SECTIONS

HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 10'

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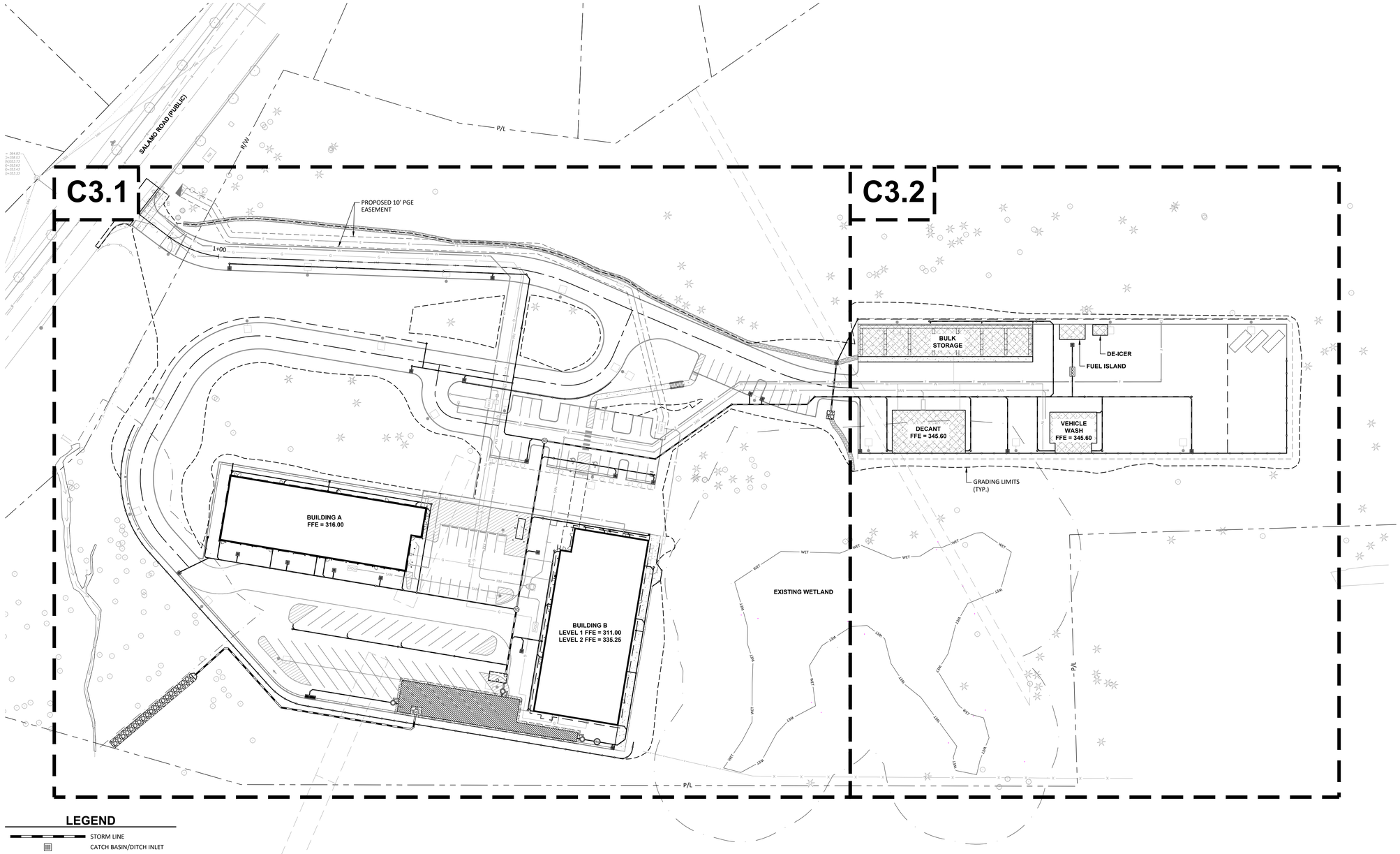
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ACCESS ROAD CROSS SECTIONS

Sheet No:

C2.8

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LEGEND

- STORM LINE
- CATCH BASIN/DITCH INLET
- STORMWATER CLEANOUT
- BACKWATER VALVE
- SD — STORMWATER MANHOLE
- WQ — 72" STORMFILTER MANHOLE
- UNDERGROUND STORM FACILITY
- SAN — GRAVITY LINE
- W — WATER LINE
- 100 — EXISTING CONTOUR
- 102 — PROPOSED MINOR CONTOUR
- 110 — PROPOSED MAJOR CONTOUR
- EXISTING ROW/PROPERTY LINE
- GRADING LIMITS
- WET — WETLAND BOUNDARY
- NATURAL RESOURCES BUFFER

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Scott Edwards Architecture
2525 E Burnside St. 503.226.3617
Portland, OR 97214 seallp.com

REGISTERED PROFESSIONAL ENGINEER
OREGON
SEPT. 15, 2015
ALEXANDER J. SIMPSON
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Drawing:

OVERALL STORMWATER PLAN

0 20 40 80
SCALE: 1" = 40'

Sheet No:

C3.0

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LEGEND

- STORM LINE
- CATCH BASIN/DITCH INLET
- STORMWATER CLEANOUT
- BACKWATER VALVE
- STORMWATER MANHOLE
- 48" STORMFILTER MANHOLE
- UNDERGROUND STORM FACILITY
- GRAVITY LINE
- WATER LINE
- EXISTING CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- EXISTING ROW/PROPERTY LINE
- GRADING LIMITS
- WETLAND BOUNDARY
- NATURAL RESOURCES BUFFER

CONSTRUCTION NOTES

1. CONSTRUCT CLEANOUT PER DETAIL ON SHEET C5.1. SEE THIS SHEET FOR DATA.
2. CONSTRUCT LYNCH STYLE CATCH BASIN PER DETAIL ON SHEET C5.1. SEE THIS SHEET FOR DATA.
3. CONSTRUCT STORM OUTFALL AND RIPRAP PAD PER DETAIL ON SHEET C5.1. INSTALL CONCRETE HEADWALL PER DETAIL ON SHEET C5.2.
4. CONSTRUCT STORM SEWER MANHOLE PER DETAIL ON SHEET C5.1. SEE THIS SHEET FOR DATA.
5. PROPOSED CONTECH 8x16 PEAK DIVERSION STORMFILTER VAULT WITH (25) 18" PSORB CARTRIDGES PER DETAIL ON SHEET C5.1.
6. ROOF DRAIN POINT OF CONNECTION. REFER TO PLUMBING PLANS FOR CONTINUATION.
7. PROPOSED UNDERGROUND DETENTION FOR STORMWATER MANAGEMENT PER DETAIL ON SHEET C5.3. 17,500 CF R-TANK OR EQUIVALENT.
8. CONSTRUCT CLASS 50 RIPRAP STORM OUTFALL PER DETAIL ON SHEET C5.1. INSTALL CONCRETE HEADWALL FOR SMALL DIAMETER PIPE PER COH STD. DWG. 420-3 ON SHEET C5.2.
9. CONSTRUCT CONTECH 48" STORMFILTER MANHOLE WITH (2) 18" PSORB CARTRIDGES PER DETAIL ON SHEET C5.1. SEE THIS SHEET FOR DATA.
10. CONSTRUCT FLOW CONTROL MANHOLE PER DETAIL ON SHEET C5.1. SEE THIS SHEET FOR DATA.
11. CONSTRUCT CONTECH STORMFILTER CATCH BASIN WITH (3) 18" PSORB CARTRIDGES PER DETAIL ON SHEET C5.2. SEE THIS SHEET FOR DATA.
12. CONSTRUCT DITCH INLET PER DETAIL ON SHEET C5.1. SEE THIS SHEET FOR DATA.
13. CONSTRUCT 30" FREEDOM BASIN WITH SOLID LID PER DETAIL ON SHEET C5.3.
14. INSTALL BACKWATER VALVE. CLEANCHECK, OR EQUAL WITH RISER AND CAST-IRON FRAME TO FINISHED GRADE.
15. INSTALL FOUNDATION DRAIN PER DETAIL ON SHEET C5.1. SEE THIS SHEET FOR DATA.
16. CONSTRUCT UNDERDRAIN PERF PIPE PER DETAIL ON SHEET C5.5.
18. INSTALL DRAINAGE DITCH PER DETAIL ON SHEET C5.1

SCALE: 1" = 20'

STORM DRAINAGE DATA

NUMBER	DESCRIPTION	RIM ELEV.	INVERT ELEV.
SDCB-01	LYNCH STYLE CATCH BASIN	374.68	6" IE OUT (N) = 370.68
SDCB-02	LYNCH STYLE CATCH BASIN	355.01	6" IE OUT (N) = 349.38
SDCB-03	LYNCH STYLE CATCH BASIN	339.35	6" IE OUT (N) = 334.70
SDCB-04	LYNCH STYLE CATCH BASIN	338.29	6" IE OUT (N) = 334.45
SDCB-09	LYNCH STYLE CATCH BASIN	333.20	6" IE OUT (N) = 329.68
SDCB-10	LYNCH STYLE CATCH BASIN	333.52	6" IE OUT (N) = 329.50
SDCB-11	LYNCH STYLE CATCH BASIN	310.71	6" IE OUT (W) = 308.00
SDCB-12	LYNCH STYLE CATCH BASIN	310.25	6" IE OUT (W) = 308.25
SDCB-13	LYNCH STYLE CATCH BASIN	315.49	6" IE OUT (S) = 312.00
SDCB-14	LYNCH STYLE CATCH BASIN	316.32	6" IE OUT (NE) = 312.91
SDCB-15	LYNCH STYLE CATCH BASIN	315.83	6" IE OUT (S) = 312.83
SDCB-16	LYNCH STYLE CATCH BASIN	315.65	6" IE OUT (S) = 312.00
SDCB-17	LYNCH STYLE CATCH BASIN	315.65	6" IE OUT (S) = 312.00
SDCB-18	LYNCH STYLE CATCH BASIN	315.65	6" IE OUT (S) = 312.00
SDCB-19	LYNCH STYLE CATCH BASIN	315.65	6" IE OUT (S) = 312.00
SDCB-20	LYNCH STYLE CATCH BASIN	309.91	6" IE OUT (N) = 307.27
SDCB-21	LYNCH STYLE CATCH BASIN	310.38	6" IE OUT (N) = 306.51
SDCB-22	LYNCH STYLE CATCH BASIN	334.52	6" IE OUT (N) = 330.00
SDCB-23	LYNCH STYLE CATCH BASIN	344.64	8" IE OUT (S) = 341.14
SDCB-24	LYNCH STYLE CATCH BASIN	344.30	6" IE OUT (S) = 340.80
SDCB-26	CONTECH STORMFILTER CATCH BASIN	313.80	6" IE OUT (N) = 310.22
SDCO-01	CLEANOUT	374.83	6" IE IN (S) = 370.25 6" IE OUT (E) = 370.25
SDCO-02	CLEANOUT	366.82	6" IE IN (W) = 360.34 6" IE OUT (E) = 360.34
SDCO-03	CLEANOUT	358.82	6" IE IN (W) = 350.44 6" IE OUT (E) = 350.44
SDCO-04	CLEANOUT	352.79	6" IE IN (W) = 342.75 6" IE OUT (SE) = 342.75
SDCO-05	CLEANOUT	345.71	6" IE IN (N) = 337.62 6" IE OUT (S) = 337.62
SDCO-07	CLEANOUT	339.17	6" IE IN (N) = 332.48 6" IE OUT (S) = 332.48 6" IE IN (W) = 332.48
SDCO-12	CLEANOUT	346.02	10" IE IN (E) = 337.06 10" IE OUT (SW) = 337.06
SDCO-13	CLEANOUT	343.76	10" IE IN (E) = 336.66 10" IE OUT (SW) = 336.66
SDCO-14	CLEANOUT	333.91	10" IE OUT (W) = 333.05 10" IE IN (NE) = 333.05
SDCO-15	CLEANOUT	333.42	6" IE IN (S) = 329.58 6" IE OUT (W) = 329.58

STORM DRAINAGE DATA

NUMBER	DESCRIPTION	RIM ELEV.	INVERT ELEV.
SDCO-16	CLEANOUT	334.33	6" IE IN (E) = 328.15 6" IE OUT (W) = 328.15
SDCO-17	CLEANOUT	311.08	6" IE IN (E) = 307.50 6" IE OUT (W) = 307.50
SDCO-18	CLEANOUT	316.19	6" IE IN (S) = 312.93 6" IE OUT (E) = 312.93
SDCO-19	CLEANOUT	313.14	6" IE IN (W) = 311.53 6" IE OUT (E) = 311.53 6" IE IN (N) = 311.53 4" IE IN (S) = 311.53
SDCO-20	CLEANOUT	316.05	6" IE OUT (S) = 310.03 6" IE IN (W) = 310.03
SDCO-21	CLEANOUT	315.93	6" IE IN (N) = 311.28 6" IE OUT (E) = 311.28 6" IE IN (W) = 311.28
SDCO-22	CLEANOUT	315.91	6" IE OUT (E) = 309.46 6" IE IN (W) = 309.46
SDCO-23	CLEANOUT	315.36	6" IE IN (N) = 308.74 6" IE OUT (E) = 308.74 6" IE IN (W) = 308.74
SDCO-24	CLEANOUT	310.79	6" IE IN (E) = 307.94 6" IE OUT (S) = 307.94
SDCO-25	CLEANOUT	310.86	6" IE IN (E) = 307.93 6" IE OUT (N) = 307.93
SDCO-26	CLEANOUT	310.80	6" IE IN (S) = 306.97 8" IE OUT (W) = 306.97 6" IE IN (N) = 306.97 4" IE IN (E) = 306.97
SDCO-27	CLEANOUT	310.87	6" IE IN (W) = 307.91 6" IE OUT (S) = 307.91
SDCO-28	CLEANOUT	310.87	6" IE IN (N) = 306.91 6" IE OUT (S) = 306.91 6" IE IN (W) = 306.91
SDCO-36	CLEANOUT	315.11	6" IE IN (N) = 312.06 6" IE OUT (E) = 312.06
SDCO-37	CLEANOUT	314.08	6" IE IN (W) = 309.35 6" IE OUT (E) = 309.35
SDCO-38	CLEANOUT	312.67	6" IE IN (W) = 307.90 6" IE OUT (E) = 307.90
SDDI-01	DITCH INLET	344.91	8" IE OUT (S) = 342.12 6" IE IN (NE) = 342.13
SDMH-01	STORMWATER MANHOLE	334.87	10" IE IN (E) = 328.74 12" IE OUT (S) = 328.54 6" IE IN (W) = 328.74
SDMH-02	STORMWATER MANHOLE	311.56	6" IE IN (W) = 360.34 6" IE OUT (E) = 360.34
SDMH-03	48" CONTECH STORMFILTER MANHOLE	310.57	6" IE IN (E) = 306.00 6" IE OUT (W) = 303.70
SDMH-04	60" FLOW CONTROL MANHOLE	312.40	15" IE OUT (S) = 300.36 15" IE IN (N) = 300.56
SDMP-01	30" DRAIN-RITE BASIN FOR R-TANK ACCESS	310.63	6" IE IN (E) = 303.56 6" IE OUT (W) = 300.86 12" IE OUT (N) = 301.86
SDMP-02	30" DRAIN-RITE BASIN FOR R-TANK ACCESS	311.17	12" IE OUT (E) = 301.86 15" IE IN (N) = 304.12 15" IE OUT (S) = 300.86
SDMP-03	30" DRAIN-RITE BASIN FOR R-TANK ACCESS	312.84	12" IE OUT (N) = 301.86 6" IE IN (W) = 305.31 6" IE OUT (E) = 300.86
SDVT-01	CONTECH PEAK DIVERSION STORMFILTER VAULT	311.08	15" IE IN (N) = 306.48 15" IE OUT (S) = 304.18

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Scott Edwards Architecture
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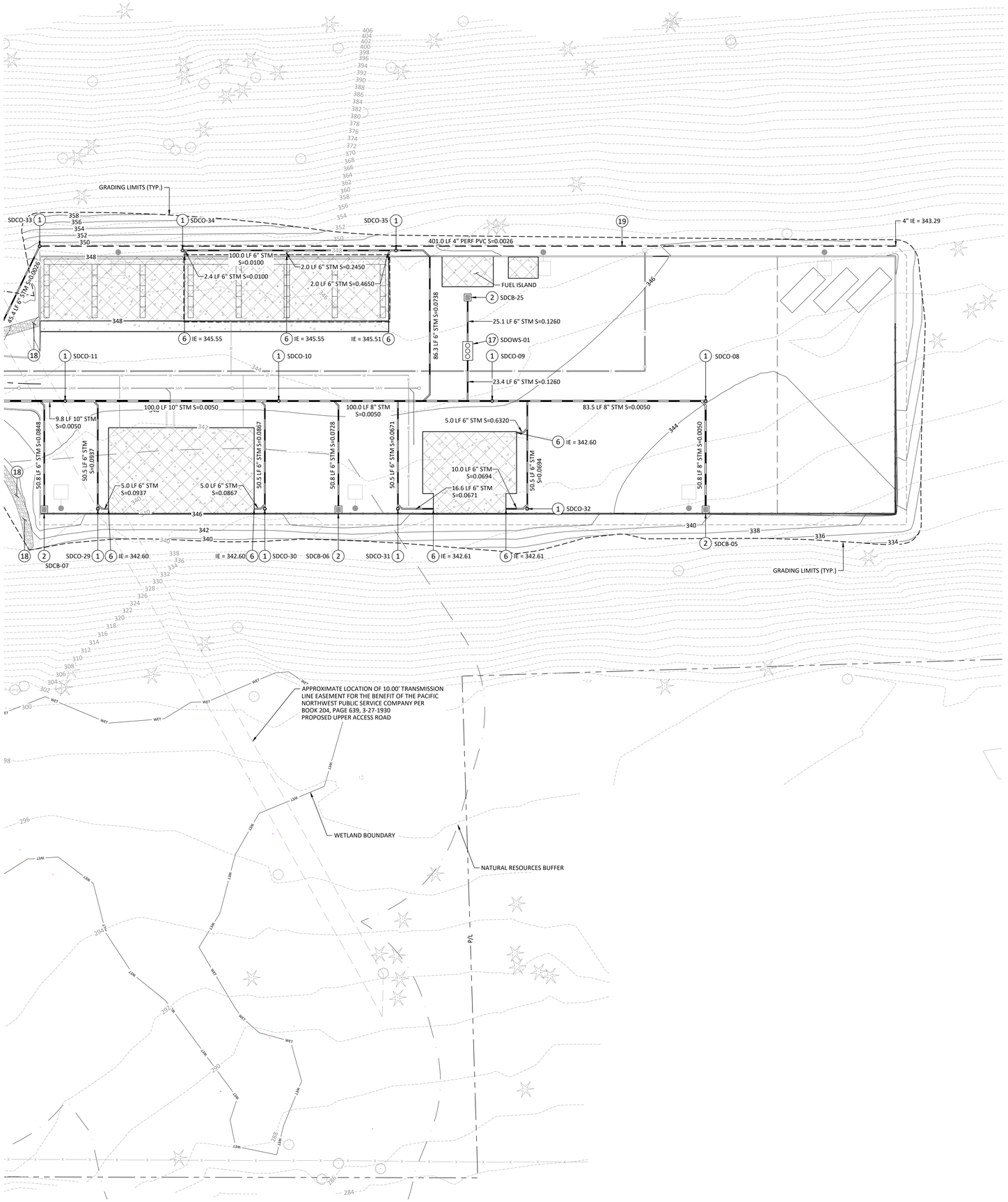
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WEST STORMWATER PLAN

Sheet No:

C3.1

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CONSTRUCTION NOTES

1. CONSTRUCT CLEANOUT PER DETAIL ON SHEET C5.1. SEE THIS SHEET FOR DATA.
2. CONSTRUCT LYNCH STYLE CATCH BASIN PER DETAIL ON SHEET C5.1. SEE THIS SHEET FOR DATA.
6. ROOF DRAIN POINT OF CONNECTION. REFER TO PLUMBING PLANS FOR CONTINUATION.
17. PROPOSED 1,000 GAL STRIEM (MODEL OT-1000) OIL/WATER SEPARATOR.
18. INSTALL DRAINAGE DITCH PER DETAIL ON SHEET C5.1
19. INSTALL FRENCH DRAIN PER DETAIL ON SHEET C5.5.

LEGEND

- STORM LINE
- CATCH BASIN/DITCH INLET
- STORMWATER CLEANOUT
- SAN — GRAVITY LINE
- W — WATER LINE
- 100 — EXISTING CONTOUR
- 102 — PROPOSED MINOR CONTOUR
- 110 — PROPOSED MAJOR CONTOUR
- EXISTING ROW/PROPERTY LINE
- GRADING LIMITS
- WET — WETLAND BOUNDARY
- NATURAL RESOURCES BUFFER

STORM DRAINAGE DATA

NUMBER	DESCRIPTION	RIM ELEV.	INVERT ELEV.
SDCB-05	LYNCH STYLE CATCH BASIN	342.58	8" IE OUT (N) = 339.08
SDCB-06	LYNCH STYLE CATCH BASIN	344.67	6" IE OUT (N) = 341.67
SDCB-07	LYNCH STYLE CATCH BASIN	345.09	6" IE OUT (N) = 341.59
SDCB-25	LYNCH STYLE CATCH BASIN	347.38	6" IE OUT (S) = 344.38
SDCO-08	CLEANOUT	344.03	8" IE IN (S) = 338.83 8" IE OUT (W) = 338.83
SDCO-09	CLEANOUT	346.09	8" IE IN (E) = 338.33 8" IE OUT (W) = 338.33
SDCO-10	CLEANOUT	346.21	8" IE IN (E) = 337.83 10" IE OUT (W) = 337.83
SDCO-11	CLEANOUT	346.54	10" IE IN (E) = 337.33 10" IE OUT (W) = 337.33
SDCO-29	CLEANOUT	345.55	6" IE IN (E) = 342.13 6" IE OUT (N) = 342.13
SDCO-30	CLEANOUT	345.47	6" IE IN (W) = 342.17 6" IE OUT (N) = 342.17
SDCO-31	CLEANOUT	345.31	6" IE IN (E) = 341.50 6" IE OUT (N) = 341.50
SDCO-32	CLEANOUT	345.42	6" IE IN (W) = 341.92 6" IE OUT (N) = 341.92
SDCO-34	CLEANOUT	348.78	6" IE OUT (E) = 345.55
SDCO-35	CLEANOUT	348.50	6" IE IN (W) = 344.55 6" IE OUT (E) = 344.55
SDOWS-01	OIL WATER SEPARATOR	344.57	6" IE IN (N) = 341.22 6" IE OUT (S) = 341.22

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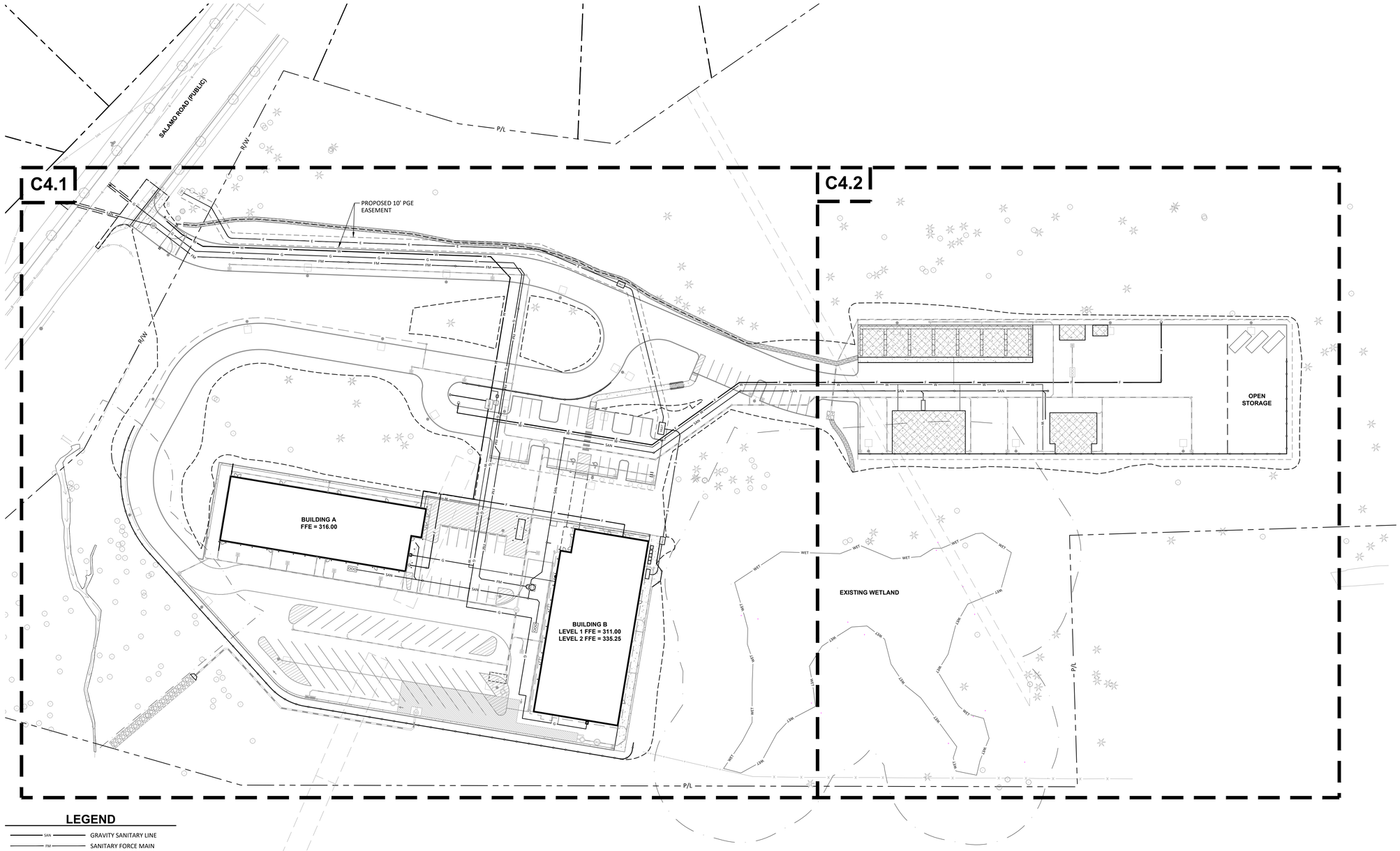
EAST STORMWATER PLAN

0 10 20 40
SCALE: 1" = 20'

Sheet No:

C3.2

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LEGEND

- GRAVITY SANITARY LINE
- SANITARY FORCE MAIN
- DOMESTIC WATER LINE
- FIRE WATER LINE
- ELECTRICAL LINE
- STORM LINE
- SANITARY SEWER MANHOLE
- FIRE HYDRANT
- WATER METER
- REDUCER
- EXISTING ROW/PROPERTY LINE
- GRADING LIMITS
- WETLAND BOUNDARY
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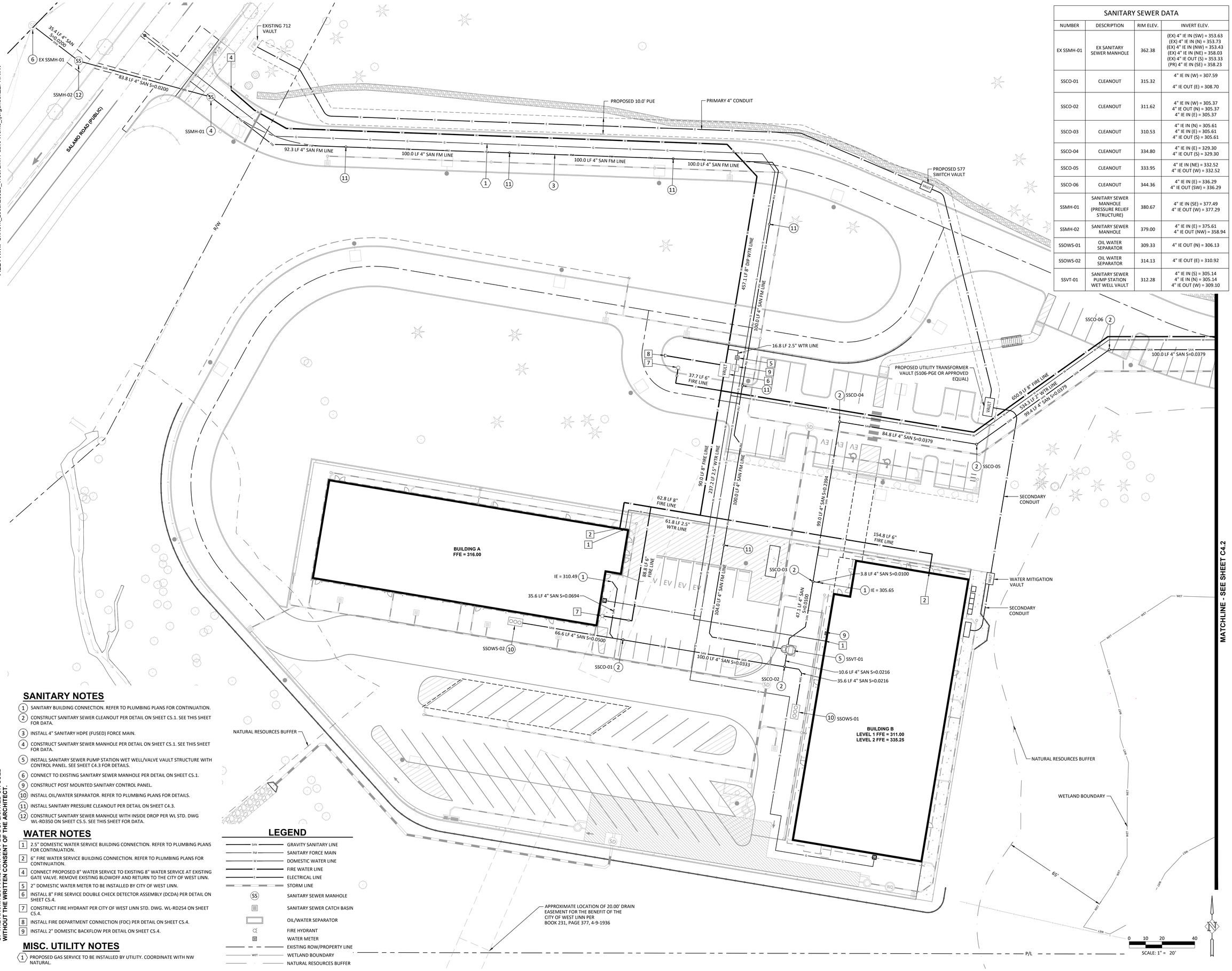
OVERALL UTILITY PLAN

SCALE: 1" = 40'

Sheet No:

C4.0

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SANITARY SEWER DATA			
NUMBER	DESCRIPTION	RIM ELEV.	INVERT ELEV.
EX SSMH-01	EX SANITARY SEWER MANHOLE	362.38	(EX) 4" IE IN (SW) = 353.63 (EX) 4" IE IN (N) = 353.73 (EX) 4" IE IN (NW) = 353.43 (EX) 4" IE IN (NE) = 358.03 (EX) 4" IE OUT (S) = 353.33 (PR) 4" IE IN (SE) = 358.23
SSCO-01	CLEANOUT	315.32	4" IE IN (W) = 307.59 4" IE OUT (E) = 308.70
SSCO-02	CLEANOUT	311.62	4" IE IN (W) = 305.37 4" IE OUT (N) = 305.37 4" IE IN (E) = 305.37
SSCO-03	CLEANOUT	310.53	4" IE IN (N) = 305.61 4" IE IN (E) = 305.61 4" IE OUT (S) = 305.61
SSCO-04	CLEANOUT	334.80	4" IE IN (E) = 329.30 4" IE OUT (S) = 329.30
SSCO-05	CLEANOUT	333.95	4" IE IN (NE) = 332.52 4" IE OUT (W) = 332.52
SSCO-06	CLEANOUT	344.36	4" IE IN (E) = 336.29 4" IE OUT (SW) = 336.29
SSMH-01	SANITARY SEWER MANHOLE (PRESSURE RELIEF STRUCTURE)	380.67	4" IE IN (SE) = 377.49 4" IE OUT (W) = 377.29
SSMH-02	SANITARY SEWER MANHOLE	379.00	4" IE IN (E) = 375.61 4" IE OUT (NW) = 358.94
SSOWS-01	OIL WATER SEPARATOR	309.33	4" IE OUT (N) = 306.13
SSOWS-02	OIL WATER SEPARATOR	314.13	4" IE OUT (E) = 310.92
SSVT-01	SANITARY SEWER PUMP STATION WET WELL VAULT	312.28	4" IE IN (S) = 305.14 4" IE IN (N) = 305.14 4" IE OUT (W) = 309.10

SANITARY NOTES

1. SANITARY BUILDING CONNECTION. REFER TO PLUMBING PLANS FOR CONTINUATION.
2. CONSTRUCT SANITARY SEWER CLEANOUT PER DETAIL ON SHEET C5.1. SEE THIS SHEET FOR DATA.
3. INSTALL 4" SANITARY HDPE (FUSED) FORCE MAIN.
4. CONSTRUCT SANITARY SEWER MANHOLE PER DETAIL ON SHEET C5.1. SEE THIS SHEET FOR DATA.
5. INSTALL SANITARY SEWER PUMP STATION WET WELL/VALVE VAULT STRUCTURE WITH CONTROL PANEL. SEE SHEET C4.3 FOR DETAILS.
6. CONNECT TO EXISTING SANITARY SEWER MANHOLE PER DETAIL ON SHEET C5.1.
9. CONSTRUCT POST MOUNTED SANITARY CONTROL PANEL.
10. INSTALL OIL/WATER SEPARATOR. REFER TO PLUMBING PLANS FOR DETAILS.
11. INSTALL SANITARY PRESSURE CLEANOUT PER DETAIL ON SHEET C4.3.
12. CONSTRUCT SANITARY SEWER MANHOLE WITH INSIDE DROP PER WL STD. DWG WL-RD350 ON SHEET C5.5. SEE THIS SHEET FOR DATA.

WATER NOTES

1. 2.5" DOMESTIC WATER SERVICE BUILDING CONNECTION. REFER TO PLUMBING PLANS FOR CONTINUATION.
2. 6" FIRE WATER SERVICE BUILDING CONNECTION. REFER TO PLUMBING PLANS FOR CONTINUATION.
4. CONNECT PROPOSED 8" WATER SERVICE TO EXISTING 8" WATER SERVICE AT EXISTING GATE VALVE. REMOVE EXISTING BLOWOFF AND RETURN TO THE CITY OF WEST LINN.
5. 2" DOMESTIC WATER METER TO BE INSTALLED BY CITY OF WEST LINN.
6. INSTALL 8" FIRE SERVICE DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) PER DETAIL ON SHEET C5.4.
7. CONSTRUCT FIRE HYDRANT PER CITY OF WEST LINN STD. DWG. WL-RD254 ON SHEET C5.4.
8. INSTALL FIRE DEPARTMENT CONNECTION (FDC) PER DETAIL ON SHEET C5.4.
9. INSTALL 2" DOMESTIC BACKFLOW PER DETAIL ON SHEET C5.4.

MISC. UTILITY NOTES

1. PROPOSED GAS SERVICE TO BE INSTALLED BY UTILITY. COORDINATE WITH NW NATURAL.

LEGEND

- SAN — GRAVITY SANITARY LINE
- FM — SANITARY FORCE MAIN
- W — DOMESTIC WATER LINE
- F — FIRE WATER LINE
- E — ELECTRICAL LINE
- STORM LINE
- SS — SANITARY SEWER MANHOLE
- SANITARY SEWER CATCH BASIN
- OIL/WATER SEPARATOR
- FIRE HYDRANT
- WM — WATER METER
- EXISTING ROW/PROPERTY LINE
- WET — WETLAND BOUNDARY
- NATURAL RESOURCES BUFFER

THESE DRAWINGS ARE THE ORIGINAL UNPUBLISHED WORK OF THE ARCHITECT AND MAY NOT BE DUPLICATED OR USED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.

Scott Edwards Architecture
2525 E Burnside St. 503.226.3617
Portland, OR 97214 seallp.com

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 13, 2010
ALEXANDER J. SIMPSON
EXPIRES: 06/30/2026

Harper Houf Peterson Righellis Inc.
ENGINEERS • PLANNERS
LANDSCAPE ARCHITECTS • SURVEYORS
205 SE Spokane Street, Suite 200, Portland, OR 97202
phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

WEST LINN OPERATIONS COMPLEX

Job Number: 23028

WEST LINN, OR

ISSUE	DATE
100% CONSTRUCTION DOCUMENTATION	03.20.2026

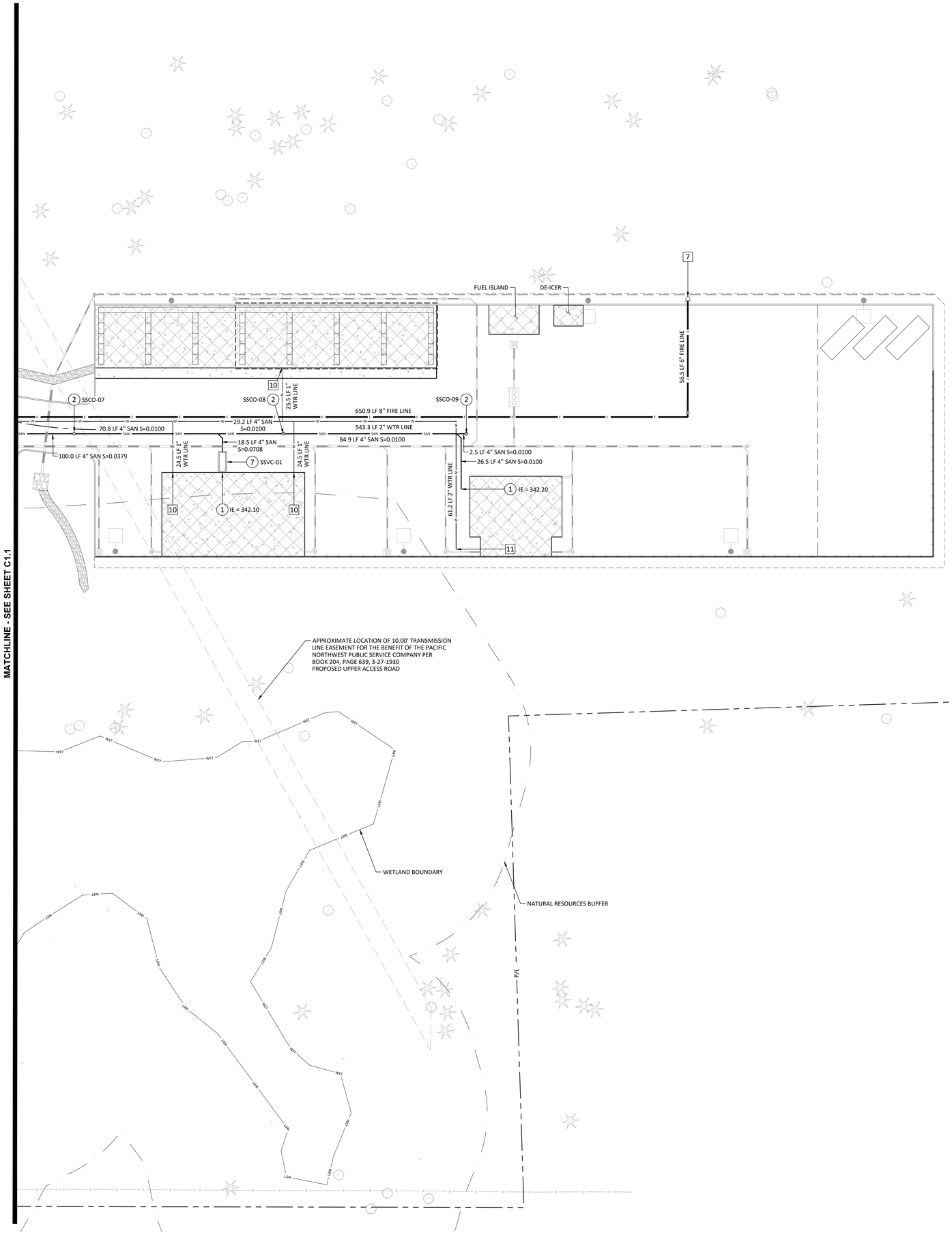
Drawing:

WEST UTILITY PLAN

Sheet No:

C4.1

FILE PATH: C:\Revit_Local\23028_West Linn Public Works_ljorgensen\ZEPNR.rvt



SANITARY NOTES

1. SANITARY BUILDING CONNECTION. REFER TO PLUMBING PLANS FOR CONTINUATION.
2. CONSTRUCT SANITARY SEWER CLEANOUT PER DETAIL ON SHEET C5.1. SEE THIS SHEET FOR DATA.
7. INSTALL CONTECH VORTECHS 1000 PER DETAIL ON SHEET C5.2. SEE THIS SHEET FOR DATA.

WATER NOTES

7. CONSTRUCT FIRE HYDRANT PER CITY OF WEST LINN STD. DWG. WL-RD254 ON SHEET C5.4.
10. 1" DOMESTIC WATER SERVICE BUILDING CONNECTION. REFER TO PLUMBING PLANS FOR CONTINUATION.
11. 2" DOMESTIC WATER SERVICE BUILDING CONNECTION. REFER TO PLUMBING PLANS FOR CONTINUATION.

SANITARY SEWER DATA			
NUMBER	DESCRIPTION	RIM ELEV.	INVERT ELEV.
SSCO-07	CLEANOUT	346.84	4" IE IN (E) = 340.08 4" IE OUT (W) = 340.08
SSCO-08	CLEANOUT	346.49	4" IE IN (E) = 341.09 4" IE OUT (W) = 341.09
SSCO-09	CLEANOUT	346.44	4" IE OUT (W) = 339.42
SSVC-01	CONTECH VORTECHS 1000	344.93	4" IE OUT (N) = 341.75 4" IE IN (S) = 341.75

LEGEND

- GRAVITY SANITARY LINE
- SANITARY FORCE MAIN
- DOMESTIC WATER LINE
- FIRE WATER LINE
- ELECTRICAL LINE
- STORM LINE
- SANITARY SEWER MANHOLE
- SANITARY SEWER CATCH BASIN
- OIL/WATER SEPARATOR
- FIRE HYDRANT
- WATER METER
- EXISTING ROW/PROPERTY LINE
- WETLAND BOUNDARY
- NATURAL RESOURCES BUFFER

0 10 20 40
SCALE: 1" = 20'

Scott Edwards Architecture
2525 E Burnside St. 503.226.3617
Portland, OR 97214 seallp.com

REGISTERED PROFESSIONAL ENGINEER
87490
OREGON
SEPT. 13, 2019
ALEXANDER J. SIMPSON
EXPIRES: 06/30/2026

WEST LINN OPERATIONS COMPLEX

Job Number: 23028

WEST LINN, OR

Harper Houf Peterson Righellis Inc.
ENGINEERS • PLANNERS
LANDSCAPE ARCHITECTS • SURVEYORS
205 SE Spokane Street, Suite 200, Portland, OR 97202
phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

100% CONSTRUCTION DOCUMENTATION 03.20.2026

ISSUE **DATE**

Drawing:

EAST UTILITY PLAN

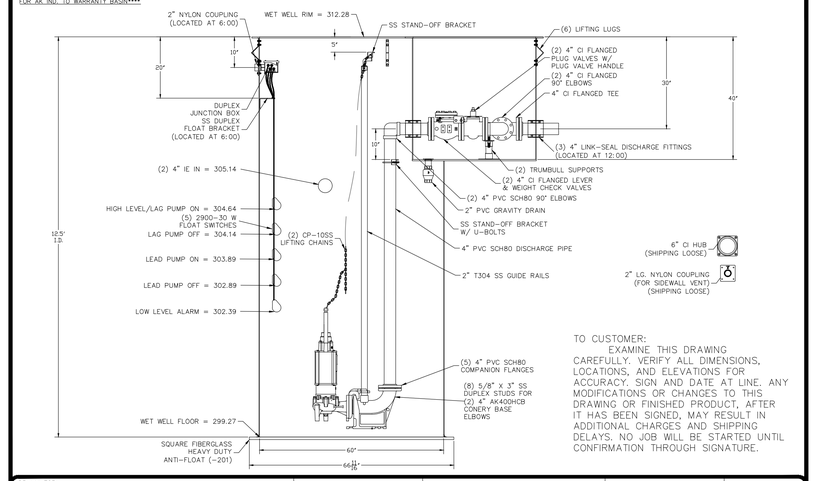
Sheet No:

C4.2

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FILE PATH: C:\Revit_Local\23028_West Linn Public Works_tjorgensenZEPNR.rvt

NOTE: MEASUREMENTS OF BASINS ARE ALL I.D., IF NOT OTHERWISE SPECIFIED
****BACKFILL INSTRUCTIONS TO BE FOLLOWED FOR AK IND. TO WARRANTY BASIN****

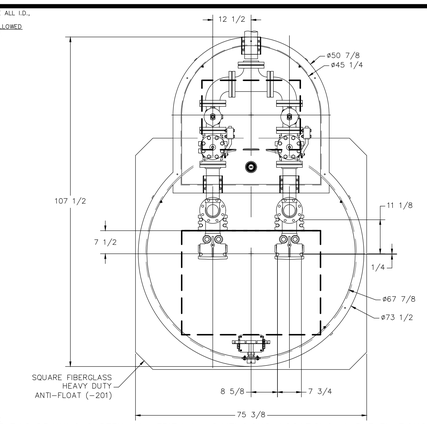


TO CUSTOMER:
EXAMINE THIS DRAWING CAREFULLY. VERIFY ALL DIMENSIONS, LOCATIONS, AND ELEVATIONS FOR ACCURACY. SIGN AND DATE AT LINE. ANY MODIFICATIONS OR CHANGES TO THIS DRAWING OR FINISHED PRODUCT, AFTER IT HAS BEEN SIGNED, MAY RESULT IN ADDITIONAL CHARGES AND SHIPPING DELAYS. NO JOB WILL BE STARTED UNTIL CONFIRMATION THROUGH SIGNATURE.

DRAWN FOR: TRIANGLE PUMP & EQUIPMENT, INC.	PO# –––	DISCONNECTS: AK400HCB	SHEET 1 OF 4 — Revision 0
	QUOTE # 14394	PUMPS: MYERS 4VHA	
JOB REFERENCE / Notes: SEA–158 SANITARY LS	BASIN DESCRIPTION: 72 X 120–201 W/ 48 X 48 VB	DRAWN BY: W.COTTON DATE: 3/11/26	
	COVER DESCRIPTION: 1/4" ALUMINUM H–20 HATCH	CHECKED BY: DATE CHECKED:	

"THE BEST AROUND UNDERGROUND"
PH: (574)-936-6022 FX: (574)-936-5811
WWW.AKINDUSTRIES.COM

NOTE: MEASUREMENTS OF BASINS ARE ALL I.D., IF NOT OTHERWISE SPECIFIED
****BACKFILL INSTRUCTIONS TO BE FOLLOWED FOR AK IND. TO WARRANTY BASIN****



TO CUSTOMER:
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(REQUESTED SIGNATURE & DATE PER ABOVE)
CONFIRMATION THROUGH SIGNATURE RELEASES ORDER FOR PRODUCTION

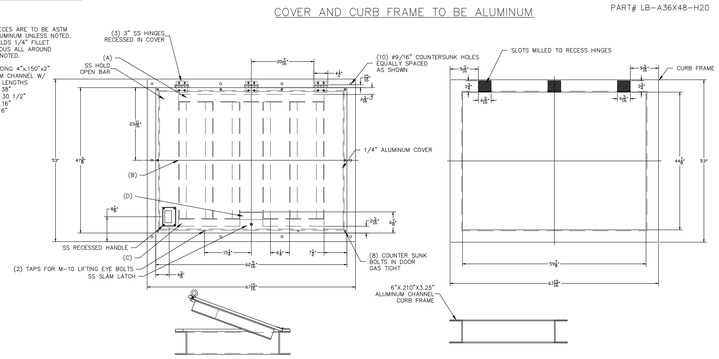
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	QUOTE # 14394	PUMPS: MEYERS 4VHA	
JOB REFERENCE / Notes: SEA–158 SANITARY LS	BASIN DESCRIPTION: 72 X 120–201 W/ 48 X 48 VB	DRAWN BY: W.COTTON DATE: 3/11/26	
	COVER DESCRIPTION: 1/4" ALUMINUM H–20 HATCH	CHECKED BY: DATE CHECKED:	

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NOTE: MEASUREMENTS OF BASINS ARE ALL I.D., IF NOT OTHERWISE SPECIFIED
****BACKFILL INSTRUCTIONS TO BE FOLLOWED FOR AK IND. TO WARRANTY BASIN****

COVER AND CURB FRAME TO BE ALUMINUM — PART# LB–A36X48–H20

NOTES:
–ALL PIECES ARE TO BE ASTM B308 ALUMINUM UNLESS NOTED.
–ALL WELDS 1/4" FILLET CONTINUOUS ALL AROUND UNLESS NOTED.
ALL BRACING 4"x150"x2" ALUMINUM CHANNEL W/ VARYING LENGTHS
A: (1) 38"
B: (6) 30 1/2"
C: (2) 16"
D: (1) 6"



TO CUSTOMER:
EXAMINE THIS DRAWING CAREFULLY. VERIFY ALL DIMENSIONS, LOCATIONS, AND ELEVATIONS FOR ACCURACY. SIGN AND DATE AT LINE. ANY MODIFICATIONS OR CHANGES TO THIS DRAWING OR FINISHED PRODUCT, AFTER IT HAS BEEN SIGNED, MAY RESULT IN ADDITIONAL CHARGES AND SHIPPING DELAYS. NO JOB WILL BE STARTED UNTIL CONFIRMATION THROUGH SIGNATURE.

(REQUESTED SIGNATURE & DATE PER ABOVE)
CONFIRMATION THROUGH SIGNATURE RELEASES ORDER FOR PRODUCTION

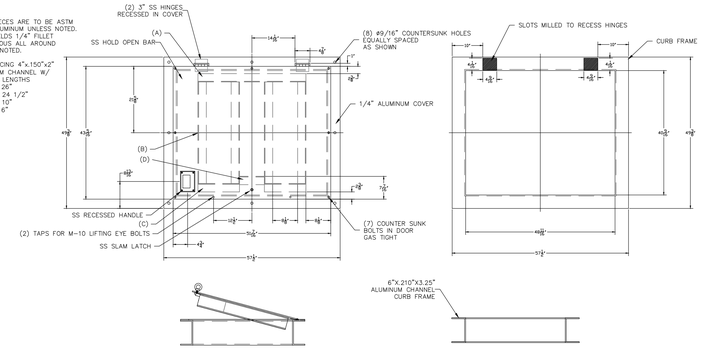
DRAWN FOR: TRIANGLE PUMP & EQUIPMENT, INC.	PO# –––	DISCONNECTS: AK400HCB	SHEET 3 OF 4 — Revision 0
	QUOTE # 14394	PUMPS: MEYERS 4VHA	
JOB REFERENCE / Notes: SEA–158 SANITARY LS	BASIN DESCRIPTION: 72 X 120–201 W/ 48 X 48 VB	DRAWN BY: W.COTTON DATE: 3/11/26	
	COVER DESCRIPTION: 1/4" ALUMINUM H–20 HATCH W/ CURB FRAME	CHECKED BY: DATE CHECKED:	

"THE BEST AROUND UNDERGROUND"
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WWW.AKINDUSTRIES.COM

NOTE: MEASUREMENTS OF BASINS ARE ALL I.D., IF NOT OTHERWISE SPECIFIED
****BACKFILL INSTRUCTIONS TO BE FOLLOWED FOR AK IND. TO WARRANTY BASIN****

COVER AND CURB FRAME TO BE ALUMINUM — PART# LB–A30X36–H20

NOTES:
–ALL PIECES ARE TO BE ASTM B308 ALUMINUM UNLESS NOTED.
–ALL WELDS 1/4" FILLET CONTINUOUS ALL AROUND UNLESS NOTED.
ALL BRACING 4"x150"x2" ALUMINUM CHANNEL W/ VARYING LENGTHS
A: (1) 26"
B: (4) 24 1/2"
C: (2) 10"
D: (1) 6"

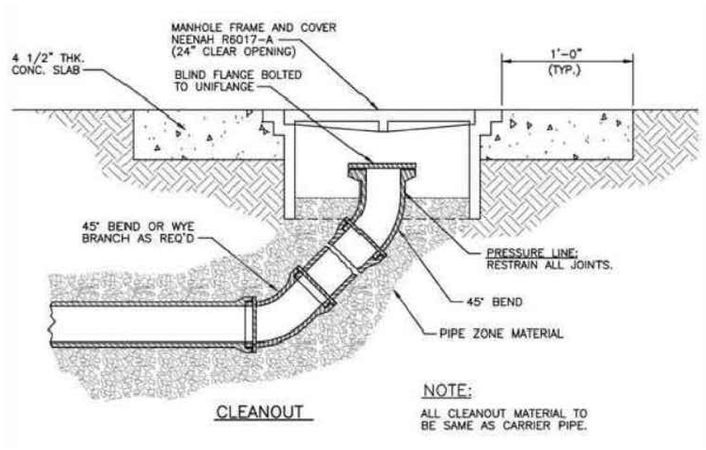


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(REQUESTED SIGNATURE & DATE PER ABOVE)
CONFIRMATION THROUGH SIGNATURE RELEASES ORDER FOR PRODUCTION

DRAWN FOR: TRIANGLE PUMP & EQUIPMENT, INC.	PO# –––	DISCONNECTS: AK400HCB	SHEET 4 OF 4 — Revision 0
	QUOTE # 14394	PUMPS: MEYERS 4VHA	
JOB REFERENCE / Notes: SEA–158 SANITARY LS	BASIN DESCRIPTION: 72 X 120–201 W/ 48 X 48 VB	DRAWN BY: W.COTTON DATE: 3/11/26	
	COVER DESCRIPTION: 1/4" ALUMINUM H–20 HATCH W/ CURB FRAME	CHECKED BY: DATE CHECKED:	

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SANITARY PRESSURE CLEANOUT
NTS

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Scott Edwards Architecture
2525 E Burnside St. 503.226.3617
Portland, OR 97214 seallp.com

REGISTERED PROFESSIONAL ENGINEER — OREGON — 87-040 — EXPIRES: 06/30/2026 — ALEXANDER J. SIMPSON

WEST LINN OPERATIONS COMPLEX

Job Number: 23028

WEST LINN, OR

Harper Houf Peterson Righellis Inc.
ENGINEERS • PLANNERS
LANDSCAPE ARCHITECTS • SURVEYORS
205 SE Spokane Street, Suite 200, Portland, OR 97202
phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

ISSUE	DATE
100% CONSTRUCTION DOCUMENTATION	03.20.2026

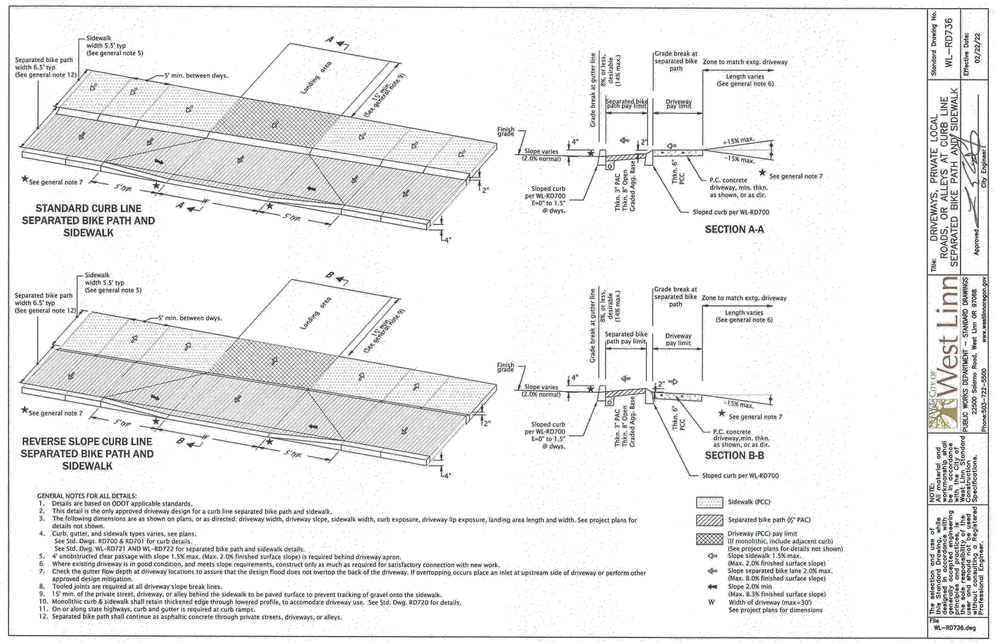
Drawing:

SANITARY SEWER PUMP STATION DETAILS

Sheet No:

C4.3

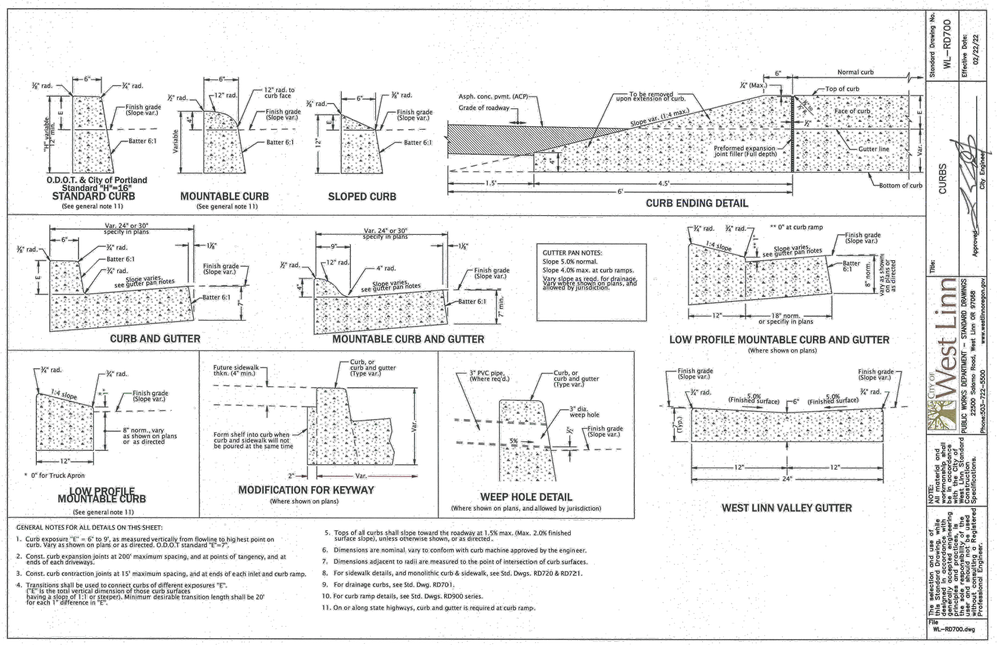
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GENERAL NOTES FOR ALL DETAILS:
1. Details are based on ODOT applicable standards.
2. This detail is the only approved driveway design for a curb line separated bike path and sidewalk.
3. The following dimensions are as shown on plans, or as directed: driveway width, driveway slope, sidewalk width, curb exposure, driveway lip exposure, landing area length and width. See project plans for details not shown.
4. Curb, gutter, and sidewalk types varies, see plans. See Std. Dwgs. RD700 & RD701 for curb details. See Std. Dwg. WL-RD721 AND WL-RD722 for separated bike path and sidewalk details.
5. 4' unobstructed clear passage with slope 1.5% max. (Max. 2.0% finished surface slope) is required behind driveway apron.
6. Where existing driveway is in good condition, and meets slope requirements, construct only as much as required for satisfactory connection with new work.
7. Check the gutter flow depth at driveway locations to assure that the design flood does not overtop the back of the driveway. If overtopping occurs place an inlet at upstream side of driveway or perform other approved design mitigation.
8. Tooled joints are required at all driveway slope break lines.
9. 15' min. of the private street, driveway, or alley behind the sidewalk to be paved surface to prevent tracking of gravel onto the sidewalk.
10. Monolithic curb & sidewalk shall retain thickened edge through lowered profile, to accomodate driveway use. See Std. Dwg. RD720 for details.
11. On or along state highways, curb and gutter is required at curb ramps.
12. Separated bike path shall continue as asphaltic concrete through private streets, driveways, or alleys.

Sidewalk (PCC)
Separated bike path (6" PAC)
Driveway (PCC) pay limit (If monolithic, include adjacent curb) (See project plans for details not shown)
Slope sidewalk 1.5% max. (Max. 2.0% finished surface slope)
Slope separated bike lane 2.0% max. (Max. 8.0% finished surface slope)
Slope 2.0% min (Max. 8.3% finished surface slope)
W Width of driveway (max=30') See project plans for dimensions

Standard Drawing No. WL-RD736
Effective Date: 02/22/23
Title: DRIVEWAYS, PRIVATE LOCAL ROADS, OR ALLEYS AT CURB LINE SEPARATED BIKE PATH AND SIDEWALK
Approved: City Engineer
CITY OF West Linn
PUBLIC WORKS DEPARTMENT - STANDARD DRAWINGS
22500 Salamo Road, West Linn OR 97068
Phone:503-722-5500 www.westlinnoregon.gov
NOTE: All materials and construction shall conform to the latest edition of the City of West Linn Standard Specifications for Construction. The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the responsibility of the user and should not be used without the approval of a Professional Engineer.
File: WL-RD736.dwg



GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:
1. Curb exposure "E" = 6" to 9", as measured vertically from flowline to hig hest point on curb. Vary as shown on plans or as directed. O.D.O.T. standard "E"=7".
2. Const. curb expansion joints at 200' maximum spacing, and at points of tangency, and at ends of each driveways.
3. Const. curb contraction joints at 15' maximum spacing, and at ends of each inlet and curb ramp.
4. Transitions shall be used to connect curbs of different exposures "E". ("E" is the total vertical dimension of those curb surfaces having a slope of 1:1 or steeper). Minimum desirable transition length shall be 20' for each 1" difference in "E".
5. Tops of all curbs shall slope toward the roadway at 1.5% max. (Max. 2.0% finished surface slope), unless otherwise shown, or as directed.
6. Dimensions are nominal. vary to conform with curb machine approved by the engineer.
7. Dimensions adjacent to radii are measured to the point of intersection of curb surfaces.
8. For sidewalk details, and monolithic curb & sidewalk, see Std. Dwgs. RD720 & RD721.
9. For drainage curbs, see Std. Dwg. RD701.
10. For curb ramp details, see Std. Dwgs. RD900 series.
11. On or along state highways, curb and gutter is required at curb ramp.

Standard Drawing No. WL-RD700
Effective Date: 02/22/23
Title: CURBS
Approved: City Engineer
CITY OF West Linn
PUBLIC WORKS DEPARTMENT - STANDARD DRAWINGS
22500 Salamo Road, West Linn OR 97068
Phone:503-722-5500 www.westlinnoregon.gov
NOTE: All materials and construction shall conform to the latest edition of the City of West Linn Standard Specifications for Construction. The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the responsibility of the user and should not be used without the approval of a Professional Engineer.
File: WL-RD700.dwg

Scott Edwards Architecture
2525 E Burnside St. 503.226.3617
Portland, OR 97214 seallp.com

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 15, 2010
ALEXANDER J. SIMPSON
EXPIRES: 06/30/2026

WEST LINN OPERATIONS COMPLEX

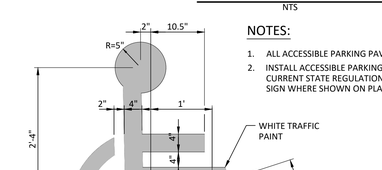
Job Number: 23028

WEST LINN, OR

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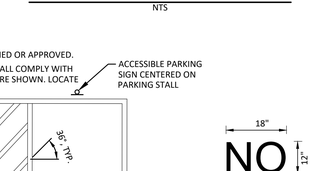


ASPHALT PAVEMENT SECTION
NTS

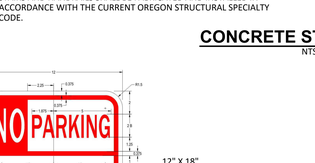


ADA TACTILE WARNING STRIP AT RAMP TO BE PLACED IN THE LOWER 2' OF RAMP THROAT ONLY. WARNING STRIP TO BE FULL WIDTH OF THROAT. COLOR OF TEXTURE TO BE "SAFETY YELLOW", OR APPROVED BY OWNER. THE CONTRACTOR SHALL SUBMIT SAMPLE PALETTE TO THE ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION.

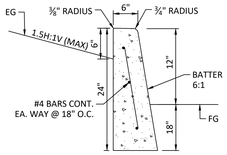
ADA TACTILE WARNING STRIP
NTS



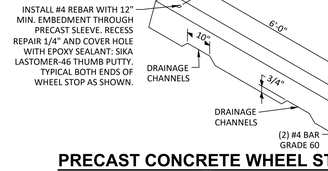
MODIFIED CURB & GUTTER
NTS



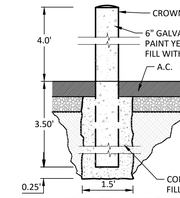
DEEPEND CURB
NTS



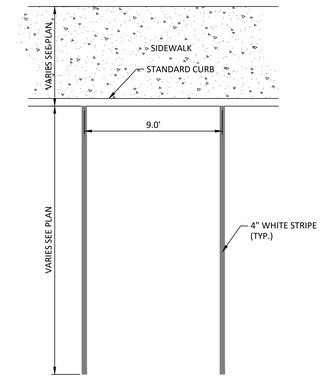
MODIFIED CURB
NTS



PRECAST CONCRETE WHEEL STOP
NTS



6" BOLLARD
NTS



CAR PARKING STALL STRIPING
NTS



12" X 18" (R7-8)
LEGEND - GREEN (RETROREFL), WHITE SYMBOL ON BLUE (RETROREFL),
BACKGROUND - WHITE (RETROREFL)



18" X 9" (R7-8A)
LEGEND - GREEN (RETROREFL),
BACKGROUND - WHITE (RETROREFL)

VAN ACCESSIBLE PARKING SIGN
NTS



12" X 18" (R7-8)
LEGEND - GREEN (RETROREFL), WHITE SYMBOL ON BLUE (RETROREFL),
BACKGROUND - WHITE (RETROREFL)

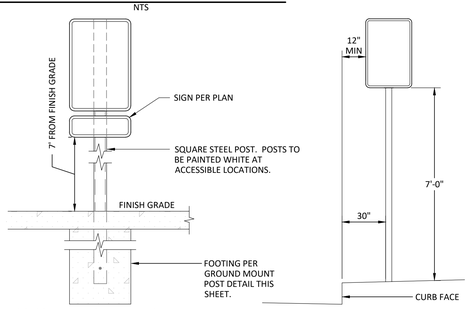
HANDICAP PARKING SIGN
NTS



FIRE LANE STENCIL DETAIL
NTS

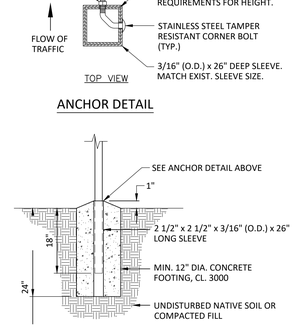


FIRE LANE CURB STENCIL DETAIL
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SIGNS SHALL MEET CURRENT MUTCD AND OREGON TRANSPORTATION REQUIREMENTS

SIGN INSTALL DETAIL
NTS

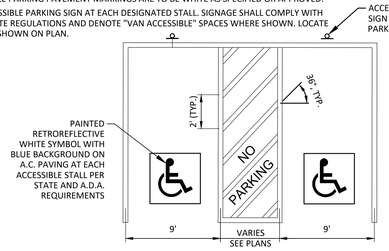


ANCHOR DETAIL

GROUND MOUNT POST DETAIL
NTS

SYMBOL AND PAINT SHALL MEET CURRENT A.D.A. ACCESSIBILITY GUIDELINE REQUIREMENTS.
SYMBOL SHALL HAVE A BLUE BACKGROUND MEETING CURRENT A.D.A. ACCESSIBILITY GUIDELINE REQUIREMENTS.

NOTES:
1. ALL ACCESSIBLE PARKING PAVEMENT MARKINGS ARE TO BE WHITE AS SPECIFIED OR APPROVED.
2. INSTALL ACCESSIBLE PARKING SIGN AT EACH DESIGNATED STALL. SIGNAGE SHALL COMPLY WITH CURRENT STATE REGULATIONS AND DENOTE "VAN ACCESSIBLE" SPACES WHERE SHOWN. LOCATE SIGN WHERE SHOWN ON PLAN.



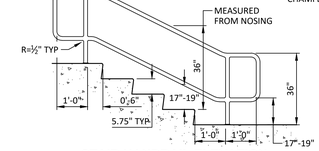
ACCESSIBLE PARKING STRIPING
NTS



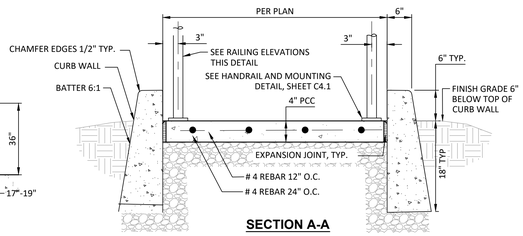


12" X 18"
LEGEND - RED
BACKGROUND - WHITE (RETROREFL)

NO PARKING FIRE LANE SIGN DETAIL
NTS

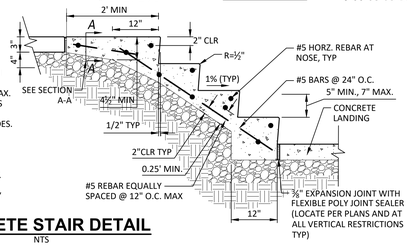


STAIR HANDRAIL ELEVATION

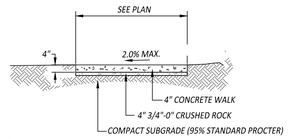


SECTION A-A

NOTES:
1. ALL PIPE SHALL BE SCH. 40 STEEL PIPE.
2. GRIND ALL WELDED JOINTS SMOOTH.
3. HOT-DIP GALVANIZE ALL PARTS AFTER FABRICATION.
4. PIPE SHALL FOLLOW ALIGNMENT OF STAIR NOSINGS.
5. PROVIDE SHOP DRAWINGS BEFORE FABRICATION.
6. SEE ANCHOR PLATE DETAIL FOR POST CONNECTION TO CONCRETE.
7. STEPS IN FLIGHT MUST HAVE UNIFORM TREAD RUNS AND UNIFORM RISER HEIGHTS.
8. TREADS SHALL BE 11" MIN, 12" MAX. RISERS SHALL BE 5" MIN, 7" MAX.
9. LANDINGS BETWEEN FLIGHTS OF STEPS MUST HAVE SAME WIDTH AS STEPS AND A MIN LENGTH OF 4'-0".
10. FLIGHTS OF 4 OR MORE STEPS SHALL HAVE HANDRAILS ON BOTH SIDES.
11. HANDRAILS SHALL BE CONTINUOUS ACROSS LANDINGS BETWEEN FLIGHTS OF STEPS.
12. TREAD SLOPES OUTWARD AT 1%.
13. HANDRAILS SHALL NOT ROTATE IN THEIR FITTINGS
14. STAIR NOSING AND TREADS SHALL HAVE A SLIP RESISTANT SURFACE.
15. STAIRS AND HANDRAILS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE CURRENT OREGON STRUCTURAL SPECIALTY CODE.



CONCRETE STAIR DETAIL
NTS



NOTES:
1. CONCRETE SHALL BE COMMERCIAL MIX, MIN. COMPRESSIVE STRENGTH OF 3300 psi AT 28 DAYS.
2. PANELS WIDTH TO MATCH SIDEWALK WIDTH ON PLANS.
3. EXPANSION JOINTS TO BE PLACED AT SIDES OF DRIVEWAY APPROACHES, UTILITY VAULTS, WHEELCHAIR RAMPS, AND AT SPACING NOT EXCEED 45 FEET.
4. FOR SIDEWALKS ADJACENT TO THE CURB AND POURED AT SAME TIME AS THE CURB, THE JOINT BETWEEN THEM SHALL BE A TROWELED JOINT WITH A MINIMUM 1/2" RADIUS.

SIDEWALK DETAIL
NTS

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ISSUE	DATE
100% CONSTRUCTION DOCUMENTATION	03.20.2026

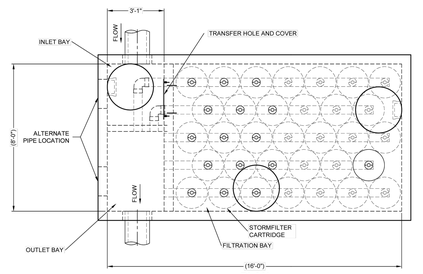
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DETAILS

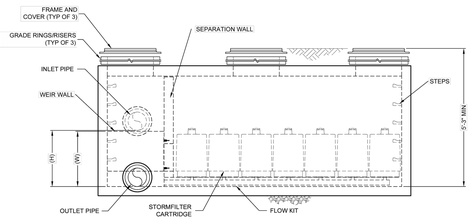
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PLAN

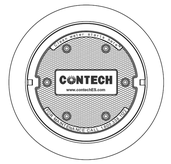


ELEVATION

The Stormwater Management StormFilter®
THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,322,629; 5,324,078; 5,707,527; 5,885,767; 6,027,639; 6,045,046; RELATED FOREIGN PATENTS; OR OTHER PATENTS PENDING.



FRAME AND GRATE
24"X24"
NOT TO SCALE



FRAME AND COVER
30"Ø
NOT TO SCALE

STORMFILTER DESIGN NOTES

- THE 8' x 16' PEAK DIVERSION STORMFILTER TREATMENT CAPACITY VARIES BY CARTRIDGE COUNT AND LOCALLY APPROVED SURFACE AREA SPECIFIC FLOW RATE. PEAK CONVEYANCE CAPACITY TO BE DETERMINED BY ENGINEER OF RECORD.
- THE PEAK DIVERSION STORMFILTER IS AVAILABLE IN A LEFT INLET (AS SHOWN) OR RIGHT INLET CONFIGURATION.
- ALL PARTS AND INTERNAL ASSEMBLY PROVIDED BY CONTECH UNLESS OTHERWISE NOTED.

CARTRIDGE SELECTION

CARTRIDGE HEIGHT	27"			18"			LOW DROP		
RECOMMENDED HYDRAULIC DROP (H)	3.05'			2.3'			1.8'		
HEIGHT OF WEIR (W)	3.00'			2.25'			1.75'		
SPECIFIC FLOW RATE (gpm/sf)	2 gpm/sf	1.67* gpm/sf	1 gpm/sf	2 gpm/sf	1.67* gpm/sf	1 gpm/sf	2 gpm/sf	1.67* gpm/sf	1 gpm/sf
CARTRIDGE FLOW RATE (gpm)	22.5	18.79	11.25	15	12.53	7.5	10	8.35	5

* 1.67 gpm/sf SPECIFIC FLOW RATE IS APPROVED WITH PHOSPHOSORB® (PSORB) MEDIA ONLY

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	SDVT-01
WATER QUALITY FLOW RATE (cfs)	0.006
PEAK FLOW RATE (cfs)	3.114
RETURN PERIOD OF PEAK FLOW (yrs)	25
CARTRIDGE HEIGHT (27", 18", LOW DROP(LD))	18"
NUMBER OF CARTRIDGES REQUIRED	25
CARTRIDGE FLOW RATE	12.53 GPM
MEDIA TYPE (PERLITE, ZPG, PSORB)	PSORB

PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE	306.48	PVC	12"
OUTLET PIPE	304.18	PVC	12"

UPSTREAM RIM ELEVATION	311.05
DOWNSTREAM RIM ELEVATION	311.30

ANTI-FLOTATION BALLAST	WIDTH	HEIGHT
	N/A	N/A

NOTES/SPECIAL REQUIREMENTS:

* PER ENGINEER OF RECORD

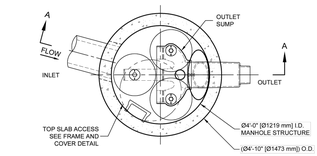
PERFORMANCE SPECIFICATION
FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. **RADIAL MEDIA DEPTH SHALL BE 7-INCHES**. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST **38 SECONDS**.
SPECIFIC FLOW RATE SHALL BE 2 **GPM/SF (MAXIMUM)**. SPECIFIC FLOW RATE IS THE MEASURE OF THE FLOW (GPM) DIVIDED BY THE MEDIA SURFACE CONTACT AREA (SF). MEDIA VOLUMETRIC FLOW RATE SHALL BE **6 GPM/CF OF MEDIA (MAXIMUM)**.

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH REPRESENTATIVE. www.contechES.com
4. STORMFILTER WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
5. STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 10' AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.

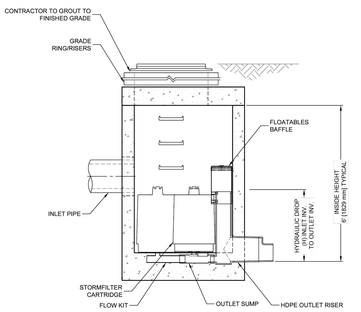
INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMFILTER STRUCTURE (LIFTING LUGS/EYES PROVIDED).
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL SECTIONS AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH OUTLET PIPE INVERT WITH OUTLET BAY FLOOR.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.
F. CONTRACTOR TO REMOVE THE TRANSFER HOLE COVER WHEN THE SYSTEM IS BROUGHT ONLINE.

CONTECH ENGINEERED SOLUTIONS LLC
www.contechES.com
9100 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

THE STORMWATER MANAGEMENT STORMFILTER
8' x 16' PEAK DIVERSION STORMFILTER
STANDARD DETAIL



PLAN VIEW
STANDARD OUTLET RISER
FLOWKIT: 40A



SECTION A-A

The Stormwater Management StormFilter®
THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,322,629; 5,324,078; 5,707,527; 5,885,767; 6,027,639; 6,045,046; RELATED FOREIGN PATENTS; OR OTHER PATENTS PENDING.

STORMFILTER DESIGN NOTES

STORMFILTER TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. THE STANDARD MANHOLE STYLE IS SHOWN WITH THE MAXIMUM NUMBER OF CARTRIDGES (3). VOLUME SYSTEM IS ALSO AVAILABLE WITH MAXIMUM 3 CARTRIDGES, Ø4 [1219 mm] MANHOLE STORMFILTER PEAK HYDRAULIC CAPACITY IS 1.0 CFS [28.3 L/s] . IF THE SITE CONDITIONS EXCEED 1.0 CFS [28.3 L/s] AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

CARTRIDGE SELECTION

CARTRIDGE HEIGHT	27" (686 mm)			18" (457 mm)			LOW DROP		
RECOMMENDED HYDRAULIC DROP (H)	3.05' [930 mm]			2.3' [700 mm]			1.8' [550 mm]		
SPECIFIC FLOW RATE (gpm/sf) [L/s/m²]	2 [1.30]	1.67* [1.08]	1 [0.65]	2 [1.30]	1.67* [1.08]	1 [0.65]	2 [1.30]	1.67* [1.08]	1 [0.65]
CARTRIDGE FLOW RATE (gpm) [L/s]	22.5 [1.42]	18.79 [1.19]	11.25 [0.71]	15 [0.95]	12.53 [0.79]	7.5 [0.44]	10 [0.63]	8.35 [0.54]	5 [0.32]

* 1.67 gpm/sf [1.08 L/s/m²] SPECIFIC FLOW RATE IS APPROVED WITH PHOSPHOSORB® (PSORB) MEDIA ONLY

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	SDMH-03
WATER QUALITY FLOW RATE (cfs) [L/s]	0.053
PEAK FLOW RATE (cfs) [L/s]	0.357
RETURN PERIOD OF PEAK FLOW (yrs)	25
CARTRIDGE HEIGHT (SEE TABLE ABOVE)	18"
NUMBER OF CARTRIDGES REQUIRED	2
CARTRIDGE FLOW RATE	12.53 GPM
MEDIA TYPE (PERLITE, ZPG, PSORB)	PSORB

PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE #1	306.00	PVC	6"
INLET PIPE #2	N/A	N/A	N/A
OUTLET PIPE	303.70	PVC	6"

RIM ELEVATION	310.57

ANTI-FLOTATION BALLAST	WIDTH	HEIGHT
	N/A	N/A

NOTES/SPECIAL REQUIREMENTS:

* PER ENGINEER OF RECORD

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR SITE SPECIFIC DRAWINGS WITH DETAILED VAULT DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
4. STORMFILTER WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS-20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 5' [1524 mm] AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
6. FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. RADIAL MEDIA DEPTH SHALL BE 7-INCHES [178 mm]. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 38 SECONDS.
7. SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) [L/s] DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft[m²]).
8. STORMFILTER STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMFILTER STRUCTURE.
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET PIPE(S).
E. CONTRACTOR TO PROVIDE AND INSTALL CONNECTOR TO THE OUTLET RISER STUB. STORMFILTER EQUIPPED WITH A DUAL DIAMETER HDPE OUTLET STUB AND SAND COLLAR. IF OUTLET PIPE IS LARGER THAN 8 INCHES [200 mm], CONTRACTOR TO REMOVE THE 8 INCH [200 mm] OUTLET STUB AT MOLDED-IN CUT LINE. COUPLING BY FERNCO OR EQUAL AND PROVIDED BY CONTRACTOR.
F. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.

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SFMH48
STORMFILTER
STANDARD DETAIL

PIPE TO PIPE

PIPE TAP

MANHOLE OR CATCH BASIN

NOTES:
1. BREAK OUT WALL 2" MIN., 4" MAX. CLEAR OF PIPE WALL. GROUT SPACE WITH NON-SHRINK GROUT. FOR SANITARY CONNECTION INSTALL SAND COLLAR AS DIRECTED BY WATER ENVIRONMENT SERVICES (WES).
2. USE "FERNCO" FLEXIBLE COUPLING WITH STAINLESS STEEL CLAMPS OR APPROVED EQUAL AS REQUIRED.
3. CUT HOLE INTO PIPE AND INSTALL "FOWLER" SEWER BOOT TAP OR APPROVED EQUAL.

PIPE CONNECTION
NTS

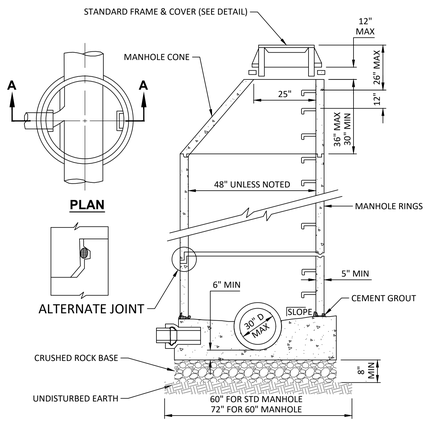
FOUNDATION DRAIN DETAIL
NTS

NOTES
1. DRAINAGE DITCH TO BE SLOPED AT 1.0% MINIMUM.
2. GRAVEL SECTION TO BE 6" OF 1-1/2" CLEAN CRUSHED DRAIN ROCK.
3. INSTALL GEOTEXTILE FABRIC AT BOTTOM OF DRAIN ROCK SECTION.

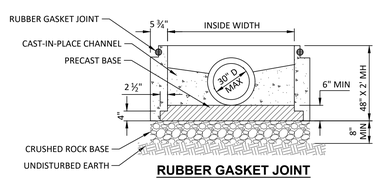
DRAINAGE DITCH - CROSS SECTION DETAIL
NTS

PAVED AREAS | **NON-PAVED AREAS**

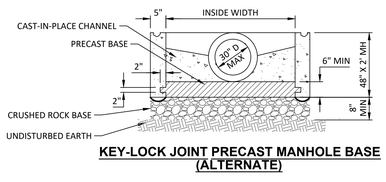
PIPE BEDDING AND BACKFILL TYPICAL SECTION (PRIVATE ONSITE)
NTS



SECTION A-A CAST IN PLACE BASE



RUBBER GASKET JOINT



KEY-LOCK JOINT PRECAST MANHOLE BASE (ALTERNATE)

NOTES:
1. ALL PRECAST MANHOLE RINGS AND CONES SHALL CONFORM TO ASTM C-478 WITH CAST IN STEPS. (SEE DETAIL)
2. IN OVER EXCAVATED AREAS PROVIDE SUPPORT FOR THE PIPE AS FOLLOWS: PLACE 3/4" MINUS CRUSHED ROCK OVER UNDISTURBED GROUND IN 6" LAYERS AND COMPACT USING HAND TAMPER.
3. BASE CONCRETE SHALL BE 3000 P.S.I., 2-4 IN. SLUMP. FLOW LINES AND INSIDE SURFACES SHALL BE TROWLED SMOOTH & UNIFORM AT TIME OF POUR. MANHOLE BASE MAY BE MONOLITHICALLY CAST TO 8" ABOVE BARREL OF MAIN SEWER.
4. CAST IN PLACE, MONOLITHIC MANHOLE MAY BE SUBSTITUTED WITH SPECIFIC APPROVAL OF THE ENGINEER.
5. SEE INSERT-A-TEE MANHOLE CONNECTION DETAILS.
6. JOINTS SHALL BE CONSTRUCTED SO AS TO BE WATERTIGHT. KENT-SEAL NO. 2 OR APPROVED EQUAL SHALL BE USED ON TONGUE & GROOVE SECTIONS, AND ON RISER RINGS PREMOLDED "O-RING" MAY BE SUBSTITUTED ON BELL & SPIGOT SECTIONS. ALL JOINTS SHALL BE GROUTED WITH SUPERIOR ADVANTAGE GROUT & STRUCK EVEN WITH THE WALL. GROUT MUST MEET ASTM C-827 FOR NON SHRINKAGE AS PER 2002 APWA 2440.50(b).
7. MANHOLES UNDER 6'-0" IN DEPTH FROM RIM TO SHELF SHALL HAVE A FLAT TOP IN LIEU OF CONE (SEE DETAIL ON THIS SHEET, ABOVE).

STANDARD PRECAST MANHOLE
NTS

SHEAR GATE

NOTES:
ALTERNATIVES ARE ACCEPTABLE PROVIDED MATERIAL SPECIFICATIONS ARE MET AND FLANGE BOLT PATTERN MATCHES.

LIFT HANDLE SHALL BE ATTACHED PER MANUFACTURER'S RECOMMENDATIONS.

FLOW CONTROL MANHOLE
NTS

RIPRAP STORM OUTFALL
NTS

NOTES FOR DITCH INLET:
1. USE PRE-CAST CONCRETE ODOT STYLE G-2 CATCH BASIN BASE.
2. FOR DITCH INLET TOP AND GRATE, USE ODOT STYLE TYPE-D DITCH INLET WITH TYPE 2 FRAME AND GRATE.

CONCRETE DITCH INLET
NTS

TEE OR WYE

LYNCH-STYLE CATCH BASIN
NTS

NOTE: CAST IRON FRAME AND COVER SHALL BE VALLEY IRON & STEEL CO. NO.'S 202 (6") OR APPROVED EQUAL.

STANDARD CLEANOUT
N.T.S.

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Scott Edwards Architecture
2525 E Burnside St. 503.226.3617
Portland, OR 97214 seallp.com

REGISTERED PROFESSIONAL ENGINEER
87-640
OREGON
JULY 15, 2010
ALEXANDER J. SIMPSON
EXPIRES: 06/30/2026

WEST LINN OPERATIONS COMPLEX

Job Number: 23028

WEST LINN, OR

Harper Houf Peterson Righellis Inc.
ENGINEERS • PLANNERS
LANDSCAPE ARCHITECTS • SURVEYORS
205 SE Spokane Street, Suite 200, Portland, OR 97202
phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

ISSUE	DATE
100% CONSTRUCTION DOCUMENTATION	03.20.2026

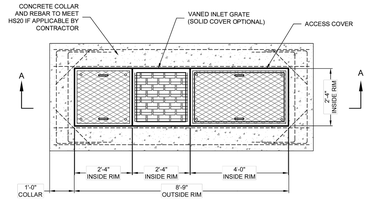
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DETAILS

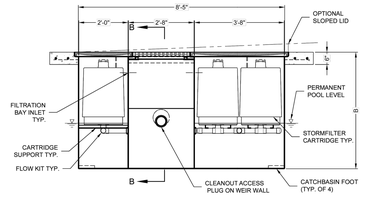
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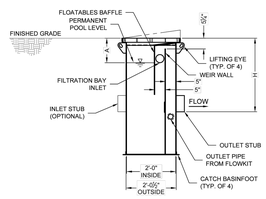
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PLAN VIEW



SECTION A-A



SECTION B-B

STORMFILTER STEEL CATCHBASIN DESIGN NOTES

STORMFILTER TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. 3 CARTRIDGE CATCHBASIN HAS A MAXIMUM OF THREE CARTRIDGES. SYSTEM IS SHOWN WITH A 27" CARTRIDGE, AND IS ALSO AVAILABLE WITH AN 18" CARTRIDGE. STORMFILTER CATCHBASIN CONFIGURATIONS ARE AVAILABLE WITH A DRY INLET BAY FOR VECTOR CONTROL.
PEAK HYDRAULIC CAPACITY PER TABLE BELOW. IF THE SITE CONDITIONS EXCEED PEAK HYDRAULIC CAPACITY, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

CARTRIDGE SELECTION

CARTRIDGE HEIGHT	27"			18"			18" DEEP		
RECOMMENDED HYDRAULIC DROP (H)	3.05'			2.3'			3.3'		
SPECIFIC FLOW RATE (gpm/sf)	2 gpm/sf	1.67* gpm/sf	1 gpm/sf	2 gpm/sf	1.67* gpm/sf	1 gpm/sf	2 gpm/sf	1.67* gpm/sf	1 gpm/sf
CARTRIDGE FLOW RATE (gpm)	22.5	18.79	11.25	15	12.53	7.5	15	12.53	7.5
PEAK HYDRAULIC CAPACITY	1.0			1.0			2.25		
INLET PERMANENT POOL LEVEL (A)	1'-0"			1'-0"			2'-0"		
OVERALL STRUCTURE HEIGHT (B)	4'-9"			3'-9"			4'-9"		

* 1.67 gpm/sf SPECIFIC FLOW RATE IS APPROVED WITH PHOSPHOSORB® ''(PSORB) MEDIA ONLY

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STORMFILTER CATCHBASIN STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ANGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
3. STORMFILTER CATCHBASIN WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
4. INLET SHOULD NOT BE LOWER THAN OUTLET. INLET (IF APPLICABLE) AND OUTLET PIPING TO BE SPECIFIED BY ENGINEER AND PROVIDED BY CONTRACTOR.
5. MANUFACTURER TO APPLY A SURFACE BEAD WELD IN THE SHAPE OF THE LETTER "O" ABOVE THE OUTLET PIPE STUB ON THE EXTERIOR SURFACE OF THE STEEL SFCB.
6. STORMFILTER CATCHBASIN EQUIPPED WITH 4 INCH (APPROXIMATE) LONG STUBS FOR INLET (IF APPLICABLE) AND OUTLET PIPING. STANDARD OUTLET STUB IS 8 INCHES IN DIAMETER. MAXIMUM OUTLET STUB IS 15 INCHES IN DIAMETER. CONNECTION TO COLLECTION PIPING CAN BE MADE USING FLEXIBLE COUPLING BY CONTRACTOR.
7. STEEL STRUCTURE TO BE MANUFACTURED OF 1/4 INCH STEEL PLATE. CASTINGS SHALL MEET AASHTO M306 LOAD RATING. TO MEET HS20 LOAD RATING ON STRUCTURE, A CONCRETE COLLAR IS REQUIRED. WHEN REQUIRED, CONCRETE COLLAR WITH #4 REINFORCING BARS TO BE PROVIDED BY CONTRACTOR.
8. FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. RADIAL MEDIA DEPTH SHALL BE 7-INCHES. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 38 SECONDS.
9. SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft).

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CATCHBASIN (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.

3-CARTRIDGE CATCHBASIN STORMFILTER DATA

STRUCTURE ID	SDCB-26
WATER QUALITY FLOW RATE (cfs)	0.080
PEAK FLOW RATE (<1 cfs)	0.238
RETURN PERIOD OF PEAK FLOW (yrs)	25
CARTRIDGE FLOW RATE (gpm)	12.53
MEDIA TYPE (PERLITE, ZPG, PSORB)	PSORB
RIM ELEVATION	313.80

PIPE DATA:	I.E.	DIAMETER
INLET STUB	N/A	N/A
OUTLET STUB	310.22	6"

CONFIGURATION: OUTLET / INLET — OUTLET / INLET

SLOPED LID	YES/NO
SOLID COVER	YES/NO
NOTES/SPECIAL REQUIREMENTS:	

CONTECH ENGINEERED SOLUTIONS LLC
www.contechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-526-3999 513-645-7000 513-645-7993 FAX

3 CARTRIDGE CATCHBASIN STORMFILTER STANDARD DETAIL

The Stormwater Management StormFilter® is protected by the following U.S. patents: 5,322,629; 5,707,527; 5,759,415; 6,approved; 6,027,642; 6,649,048; 6,511,593; 6,838,000; 7,425,262; 7,470,366; 7,905,371; 8,025,794; 8,277,648; 8,431,005; 8,512,561; 8,546,126; 8,852,441; 9,039,897; 9,352,260; 9,707,504; 9,861,916; 9,861,917; 9,861,918; 9,861,919; 9,861,920; 9,861,921; 9,861,922; 9,861,923; 9,861,924; 9,861,925; 9,861,926; 9,861,927; 9,861,928; 9,861,929; 9,861,930; 9,861,931; 9,861,932; 9,861,933; 9,861,934; 9,861,935; 9,861,936; 9,861,937; 9,861,938; 9,861,939; 9,861,940; 9,861,941; 9,861,942; 9,861,943; 9,861,944; 9,861,945; 9,861,946; 9,861,947; 9,861,948; 9,861,949; 9,861,950; 9,861,951; 9,861,952; 9,861,953; 9,861,954; 9,861,955;

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Scott Edwards Architecture
2525 E Burnside St. 503.226.3617
Portland, OR 97214 sealip.com

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 13, 2010
ALEXANDER J. SIMPSON
EXPIRES: 06/30/2026

WEST LINN OPERATIONS COMPLEX

Job Number: 23028

WEST LINN, OR

Harper Houf Peterson Righellis Inc.
ENGINEERS • PLANNERS
LANDSCAPE ARCHITECTS • SURVEYORS
205 SE Spokane Street, Suite 200, Portland, OR 97202
phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

100% CONSTRUCTION DOCUMENTATION — 03.20.2026

ISSUE — DATE

Drawing:

DETAILS

Sheet No:

C5.3

THESE DRAWINGS ARE THE ORIGINAL UNPUBLISHED WORK OF THE ARCHITECT AND MAY NOT BE DUPLICATED OR USED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.

GENERAL NOTES & DISCLAIMERS

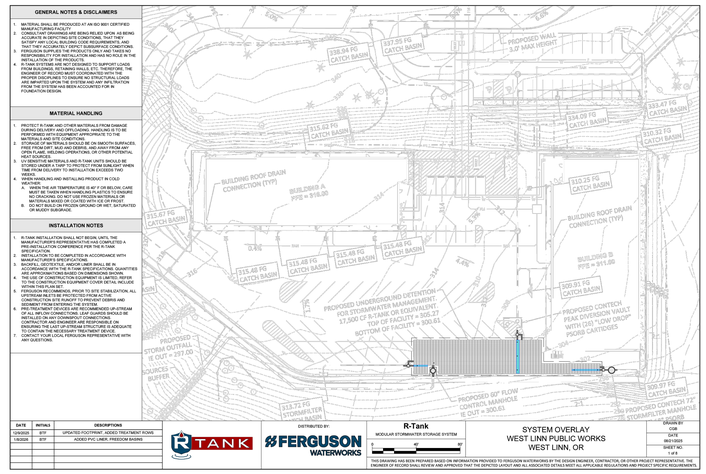
1. MATERIAL SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.
2. CONSULTANT DRAWINGS ARE BEING RELIED UPON, AS BEING ACCURATE AND COMPLETE IN ALL RESPECTS. CONTRACTOR TO SATISFY ANY LOCAL BUILDING CODE REQUIREMENTS, AND VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD. FERGUSON SUPPLIES THE PRODUCTS ONLY AND TAKES NO RESPONSIBILITY FOR INSTALLATION AND HAS NO ROLE IN THE DESIGN OF THE OVERALL SYSTEM.
3. R-TANK SYSTEMS ARE NOT DESIGNED TO SUPPORT LOADS FROM BUILDINGS, RETAINING WALLS, ETC. THEREFORE, THE OWNER AND/OR THEIR AGENTS ARE RESPONSIBLE FOR PROPER DISCIPLINES TO ENSURE NO STRUCTURAL LOADS ARE IMPARTED UPON THE SYSTEM AND ANY INFILTRATION THAT HAS BEEN ACCOUNTED FOR IN FOUNDATION DESIGN.

MATERIAL HANDLING

1. PROTECT R-TANK AND OTHER MATERIALS FROM DAMAGE DURING DELIVERY AND OFFLOADING. HANDLING IS TO BE PERFORMED WITH EQUIPMENT APPROPRIATE TO THE MATERIALS AND SITE CONDITIONS.
2. STORAGE OF MATERIALS SHOULD BE ON SMOOTH SURFACES, FREE FROM DIRT, MUD AND DEBRIS, AND AWAY FROM ANY OPEN FLAME, WELDING OPERATIONS, OR OTHER POTENTIAL HEAT SOURCES.
3. UV-SENSITIVE MATERIALS AND R-TANK UNITS SHOULD BE STORED UNDER A TARP TO PROTECT FROM SUNLIGHT WHEN THEY ARE FROM DELIVERY TO INSTALLATION EXCEEDS TWO WEEKS.
4. WHEN HANDLING AND INSTALLING PRODUCT IN COLD WEATHER:
   a. WHEN THE AIR TEMPERATURE IS 40°F OR BELOW, CARE SHOULD BE TAKEN TO ENSURE THAT THE PRODUCT HAS NO CRACKING, DO NOT USE FROZEN MATERIALS OR MATERIALS MIXED OR COATED WITH ICE OR FROST.
   b. DO NOT INSTALL ON GROUND OR HOT, SATURATED OR MUDDY SUBGRADE.

INSTALLATION NOTES

1. R-TANK INSTALLATION SHALL NOT BEGIN UNTIL THE CONTRACTOR HAS RECEIVED A COPY OF THE APPROVED AND ISSUED A PRE-INSTALLATION CONFERENCE PER THE R-TANK SPECIFICATION.
2. EXCAVATION IS TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. BACKFILL, GEOTEXTILE, AND/OR LINER SHALL BE IN ACCORDANCE WITH THE R-TANK SPECIFICATION. ALL QUANTITIES ARE APPROXIMATIONS BASED ON DIMENSIONS SHOWN.
4. THE USE OF CONSTRUCTION EQUIPMENT IS LIMITED. REFER TO THE R-TANK EQUIPMENT COVER DETAIL INCLUDED WITHIN THIS PLAN SET.
5. FERGUSON RECOMMENDS, PRIOR TO SITE STABILIZATION, ALL INLETS BE PROTECTED TO PREVENT DEBRIS AND CONSTRUCTION SITE RUNOFF TO PREVENT DEBRIS AND SEDIMENT FROM ENTERING THE SYSTEM.
6. CONTRACTOR TO PROVIDE TEMPORARY DEWATERING UP-STREAM OF ALL INFLOW CONNECTIONS. LEAF GUARDS SHOULD BE INSTALLED ON ALL INFLOW CONNECTIONS. CONTRACTOR AND ENGINEER ARE RESPONSIBLE ON CONFIRMING THAT THE SYSTEM HAS BEEN SIZED TO BE ADEQUATE TO CONTAIN THE NECESSARY TREATMENT DEVICE.
7. CONTACT YOUR LOCAL FERGUSON REPRESENTATIVE WITH ANY QUESTIONS.


BUILDING A
FFE = $16.00
BUILDING B
FFE = $11.00
BUILDING ROOF DRAIN CONNECTION (TYP.)
PROPOSED UNDERGROUND DETENTION
105 STORMWATER MANAGEMENT EQUIVALENT
17,500 CF R-TANK OR ≈ 525 CF
TOP OF FACILITY = $20.67
BOTTOM OF FACILITY = $00.61
PROPOSED CONTECH CONTROL MANHOLE
PEAK DISCHARGE VAULT
(24) 3'DIA "FLOW DROP" PSORB CARTRIDGES
PROPOSED 12" FLOW CONTROL ORIFICE
PROPOSED STORM OUTFALL
PROPOSED CONTECH STORMWATER MANHOLE
PROPOSED STORM OUTFALL
PROPOSED 12" FLOW CONTROL ORIFICE

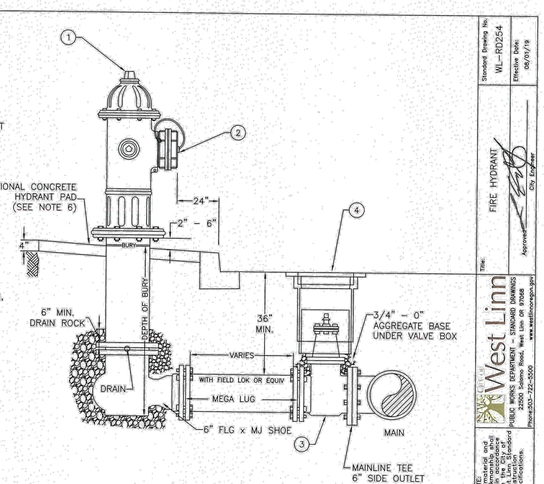
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MATERIALS:

1. HYDRANT – MUELLER SUPER CENTURION MODEL A423 OR CLOW MEDALLION F2545 (OR APPROVED EQUAL). COLOR SHALL BE SAFETY YELLOW.
2. STORZ ADAPTER – REMOVE SAFETY CHAINS AND INSTALL 5X4.5 NFT STORZ ADT WITH CAP
3. VALVE – 6" MUELLER RESILIENT WEDGE GATE VALVE MODEL A-2361-19 (OR APPROVED EQUAL)
4. VALVE BOX – 18" TALL CAST IRON VALVE BOX WITH "W" COVER AND PVC EXTENSION, PER ODOT RD258.

NOTES:

1. ALL JOINTS SHALL BE RESTRAINED WITH MEGALUG MECHANICAL JOINT RESTRAINTS OR APPROVED EQUAL.
2. HYDRANT DRAIN OUTLETS SHALL REMAIN OPEN AND OPERATIONAL. PLACE CLEAN, 1 1/2" – 3/4" DRAIN ROCK AROUND SHOE TO AT LEAST 6" ABOVE DRAIN OUTLETS.
3. HYDRANTS SHALL BE PLACED ACCORDING TO THE FOLLOWING STANDARDS:
   - 3.1. WHERE A PLANTER STRIP EXISTS BETWEEN THE CURB AND SIDEWALK, A HYDRANT SHALL BE PLACED WITHIN THE PLANTER STRIP SO THAT THE FRONT PORT IS 24" BEHIND THE FACE OF THE CURB.
   - 3.2. WHERE THE SIDEWALK IS ADJACENT TO THE CURB, A HYDRANT SHALL BE PLACED BEHIND THE SIDEWALK.
   - 3.3. WHERE CURB AND SIDEWALK DO NOT EXIST, A HYDRANT SHALL BE PLACED ACCORDING TO THE DIRECTION OF CITY STAFF.
4. CONCRETE HYDRANT PADS ARE OPTIONAL AND SHALL BE INSTALLED AT THE DIRECTION OF CITY STAFF. ALL FITTINGS THAT CONTACT CONCRETE SHALL BE WRAPPED IN PLASTIC.
5. PROVIDE 2" TO 6" OF CLEARANCE BETWEEN THE TOP OF THE HYDRANT PAD OR GROUND SURFACE AND THE BOTTOM OF THE FLANGED BOLT PATTERN OF THE HYDRANT.
6. A 3-FOOT MINIMUM CLEAR ZONE SHALL BE MAINTAINED AROUND ALL HYDRANTS. NO TREES, POLES, OR FURNITURE ARE ALLOWED WITHIN THIS ZONE.



Standard Drawing No. WL-RD254 | Effective Date: 08/01/19 | Title: FIRE HYDRANT | Approved: City Engineer

West Linn | PUBLIC WORKS DEPARTMENT – STANDARD DRAWINGS | 22500 Salamo Road, West Linn OR 97068 | Phone:(503) 722-3339 | www.westlinnoregon.gov

NOTICE: All material and construction shall be in accordance with the latest edition of the West Linn Standard Drawings and Specifications.

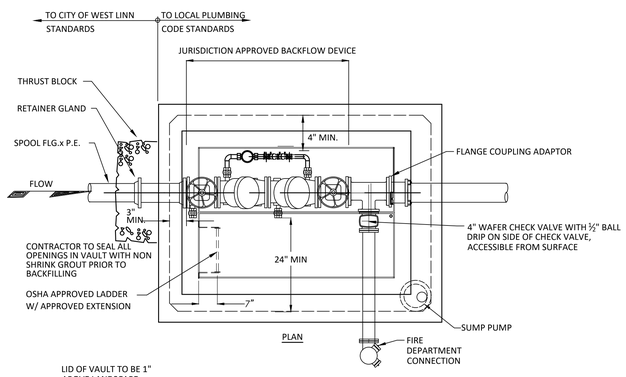
The Standard and data contained on this drawing is provided as a service to the user. The user assumes all responsibility as to the accuracy of the data and shall employ a Registered Professional Engineer.

File: WL-RD254.dwg

DCDVA ASSEMBLY VAULT

SIZE	UTILITY VAULT OR *EQUAL		BILCO DOOR OR *EQUAL
	WITH F.D.C.	WITHOUT F.D.C.	
4	676-WA	577-WA	J-5AL
6	687-WA	676-WA	J-5AL
8	5106-LA	687-WA	JD-3AL
10	5106-LA	5106-LA	JD-3AL

* ENGINEER APPROVED EQUAL



NOTES:

1. THE SUMP PUMP SHALL CONFORM TO DIMENSIONS SHOWN IN DETAIL. SUMP PUMP SHALL BE GRUNDFOS MODEL KP250 1/3 HP STAINLESS STEEL, AND SHALL HAVE A NORMALLY OPEN FREE-FLOATING LIQUID LEVEL RISES.
2. PUMP SHALL BE EQUIPPED WITH A 1 1/4" DISCHARGE AND MISC. PIPING FOR DISCHARGING INCLUDING AN INLINE CHECK VALVE AND ISOLATION GATE VALVE (SIZE EQUAL TO DISCHARGE LINE SIZE) DOWNSTREAM OF THE CHECK VALVE.
3. PROVIDE POWER SOURCE AT A VOLTAGE COMPATIBLE WITH THE SUMP PUMP MOTOR. CONDUIT FOR THE POWER SHALL BE A MINIMUM OF TWO FEET AWAY FROM ANY OTHER PIPE PENETRATION.
4. CONTRACTOR TO PROVIDE ELECTRONIC TAMPER-PROOF MONITORING SWITCH.
5. ALL PIPE, JOINTS, TEES, FITTINGS SHALL BE CL 52 D.I.P. MECHANICALLY RESTRAINED WITH MEGALUG MECHANICAL JOINT RESTRAINT, PROTECTED FROM CORROSION.

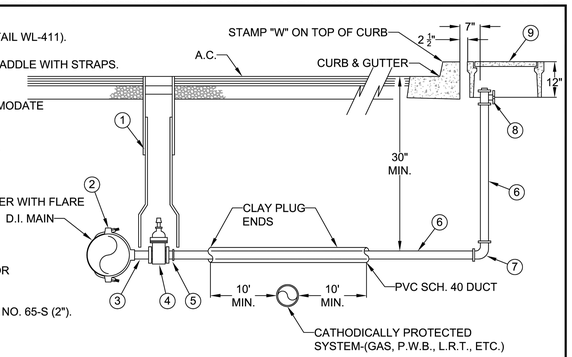
8" FIRE SERVICE DOUBLE CHECK DETECTOR VALVE ASSEMBLY AND VAULT

N.T.S.

THIS DETAIL DRAWING SHALL NOT BE ALTERED OR CHANGED IN ANY MANNER EXCEPT BY THE CITY ENGINEER. IT IS THE RESPONSIBILITY OF THE USER TO ACQUIRE THE MOST CURRENT VERSION OF THE DETAIL.

MATERIAL:

1. CAST IRON VALVE BOX AND LID (SEE STANDARD DETAIL WL-411).
2. PIPE O.D. x 2" TEE OR ROCKWELL NO. 317 SERVICE SADDLE WITH STRAPS.
3. 2" x 6" BRASS I.P.T. NIPPLE. 6" LENGTH MAY BE REDUCED IF NEEDED TO ACCOMMODATE CERTAIN TAPPING MACHINES.
4. 2" I.P.T. x I.P.T. GATE VALVE WITH RESILIENT WEDGE.
5. 2" x 3" I.P.T. x MUELLER 110 COMP. COUPLING.
6. 2" ASTM B-88 TYPE "K" COPPER TUBING. SOFT TEMPER WITH FLARE FITTING WILL NOT BE APPROVED.
7. 2" 90° ELL, MUELLER 110 CTS COMPRESSION.
8. 1 1/2" - 2" ANGLE METER STOP, MUELLER NO. 14276 OR 14277, FORD NO. FV23-777W.
9. BROOKS METER BOX, BODY NO. 65 (2"), LID & COVER NO. 65-S (2").



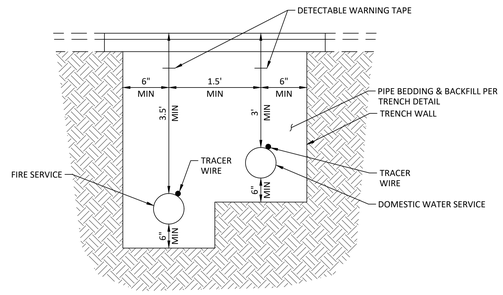
City of West Linn

STANDARD 1 1/2" – 2" WATER SERVICE

DATE: 2010 | DRAWING NO. WL-403 | FILE NO.

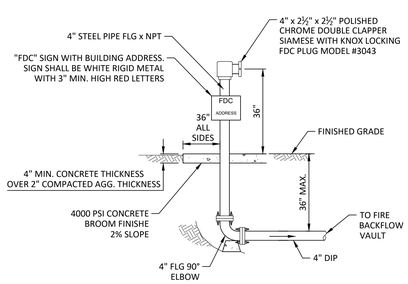
NOTE:

1. MACHINE DRILLED AND TAPPED ONLY. NO HAND DRILLING IS ALLOWED.
2. SUBSTITUTES FOR ANY MATERIALS SHOWN SHALL BE APPROVED BY THE CITY ENGINEER.
3. ALL PIPE AND STRUCTURE ZONE SHALL BE BACKFILLED USING 3/4" MINUS CRUSHED AGG. AND COMPACTED TO 95% MAX DENSITY AS DETERMINED BY AASHTO T-180.
4. WHEN AN ACTIVE CATHODIC PROTECTED SYSTEM IS ENCOUNTERED, SCH. 40 PVC SHALL BE INSTALLED AS SHOWN ABOVE WITH CLAY PLUG.
5. METER BOX SHALL BE CENTERED OVER THE COMPLETED METER AND FITTING ASSEMBLY.
6. CUSTOMER SHALL INSTALL AN APPROVED BACKFLOW PREVENTION DEVICE.
7. METER BOXES IN CURB TIGHT SIDEWALK AND THOSE SUBJECT TO INCIDENTAL AUTO TRAFFIC MUST HAVE METAL LIDS AND BE TRAFFIC RATED.



TYPICAL WATER & FIRE SERVICE JOINT TRENCH (PRIVATE ONSITE)

NTS

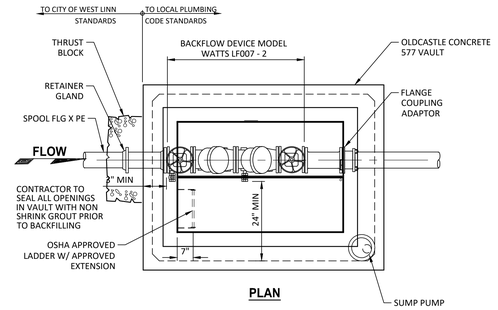


FIRE DEPARTMENT CONNECTION (FDC)

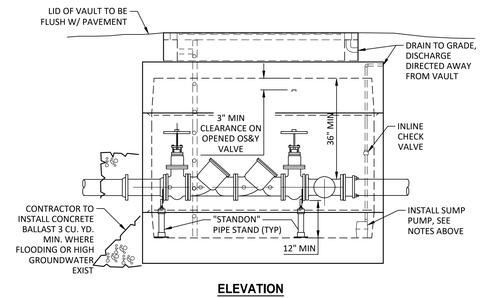
N.T.S.

NOTES:

1. THE SUMP PUMP SHALL CONFORM TO DIMENSIONS SHOWN IN DETAIL. SUMP PUMP SHALL BE GRUNDFOS MODEL KP250 1/3 HP STAINLESS STEEL, AND SHALL HAVE A NORMALLY OPEN FREE-FLOATING LIQUID LEVEL RISES.
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3. PROVIDE POWER SOURCE AT A VOLTAGE COMPATIBLE WITH THE SUMP PUMP MOTOR. CONDUIT FOR THE POWER SHALL BE A MINIMUM OF TWO FEET AWAY FROM ANY OTHER PIPE PENETRATION.



PLAN



ELEVATION

2" DOMESTIC DOUBLE CHECK VALVE ASSEMBLY (DCVA) VAULT

NTS

THESE DRAWINGS ARE THE ORIGINAL, UNPUBLISHED WORK OF THE ARCHITECT AND MAY NOT BE DUPLICATED OR USED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.

Scott Edwards Architecture
2525 E Burnside St. Portland, OR 97214
503.226.3617 seallp.com

REGISTERED PROFESSIONAL ENGINEER – OREGON – ALEXANDER J. SIMPSON – EXPIRES: 06/30/2026

WEST LINN OPERATIONS COMPLEX

Job Number: 23028

WEST LINN, OR

Harper Houf Peterson Righellis Inc.
ENGINEERS • PLANNERS • LANDSCAPE ARCHITECTS • SURVEYORS
205 SE Spokane Street, Suite 200, Portland, OR 97202
phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

ISSUE	DATE
100% CONSTRUCTION DOCUMENTATION	03.20.2026

Drawing:

DETAILS

Sheet No:

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Scott Edwards Architecture
2525 E Burnside St. Portland, OR 97214
503.226.3617 seallp.com

REGISTERED PROFESSIONAL ENGINEER — OREGON — 87 640 — ALEXANDER J. SIMPSON — EXPIRES: 06/30/2026

WEST LINN OPERATIONS COMPLEX

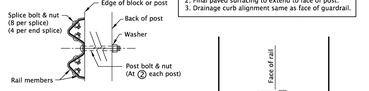
Job Number: 23028

WEST LINN, OR

Harper Houf Peterson Righellis Inc.
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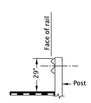
20-JUL-2020 RD400.dgn

NOTES:
1. Rail height measured from final paved surface at face of rail to top of rail (Typ. all types).
2. Final paved surfacing to extend to face of post.
3. Drainage curb alignment same as face of guardrail.

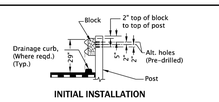


NOTES:
1. When required by the plans, post bolts to extend beyond the tightened nuts within limits of ¼" to ½".
2. When steel posts are used see "APPURTENANCES" for modified bolt detail, Std. Dwg. RD415.
3. All post bolt threads to be set after assembly for wrench removal only.

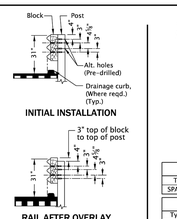
FITTINGS



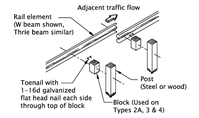
TYPE 1 GUARDRAIL
(Use restricted to non-roadway applications)



TYPES 2A & 3 GUARDRAIL
(See general note 2)
(For Type 3 use double thickness (2) rail elements)



TYPE 4 GUARDRAIL



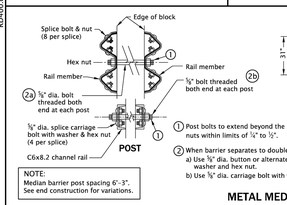
ASSEMBLY DETAILS (RELATION OF PARTS)

TABLE OF POST SPACING				
TYPE	1	2A	3	4
SPACING	12'-6"	6'-3"	3'-1½"	6'-3"

NORMAL RAIL ELEMENT DATA

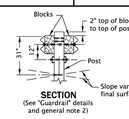
Type	Rail	Effective Lengths	Thkn. *
1, 2A, 3	W beam	6.25', 12.5', 25'	0.105" & 0.135"
4	Thrie beam	6.25', 12.5', 25'	0.105" & 0.135"

* Base metal thkn. nom. (Before galv.)



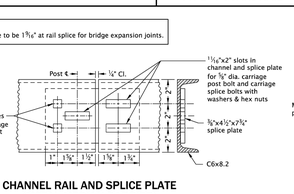
NOTE:
Median barrier post spacing 6'-3". See end construction for variations.

METAL MEDIAN BARRIER

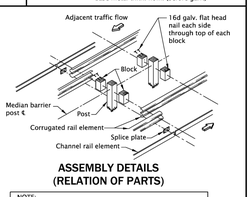


SECTION
(See "Guardrail" details and general note 2)

NOTE:
Clearance to be 1⅞₁₆" at rail splice for bridge expansion joints.

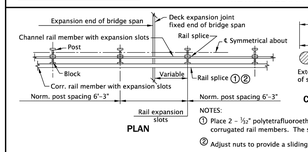


CHANNEL RAIL AND SPLICE PLATE (METAL MEDIAN BARRIER)

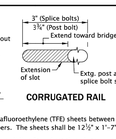


ASSEMBLY DETAILS (RELATION OF PARTS)

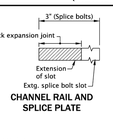
NOTE:
THIS DRAWING IS RETAINED FOR MAINTENANCE PURPOSES. DO NOT USE FOR NEW CONSTRUCTION.



NOTES:
1 Place 2 - ½" polytetrafluoroethylene (TFE) sheets between corrugated rail members. The sheets shall be 12½" x 1'-7".
2 Adjust nuts to provide a sliding fit and set threads to prevent loosening.



CORRUGATED RAIL



CHANNEL RAIL AND SPLICE PLATE

METAL MEDIAN BARRIER/SHOULDER GUARDRAIL INSTALLATION AT BRIDGE DECK EXPANSION JOINT

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:
1. See appropriate guardrail standard drawing(s) for details not shown.
2. Use "Alternate Initial Installation", at bridge ends (See Std. Dwg. RD440), adjacent to P.C.C. pvmt. for temporary guardrail, to match existing guardrail, for Type 1 rail or as directed.
3. See Std. Dwg. RD701 for drainage curbs, where required.
4. Lap guardrail in direction of adjacent traffic.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.

OREGON STANDARD DRAWINGS

GUARDRAIL AND METAL MEDIAN BARRIER (29" RAIL HEIGHT)

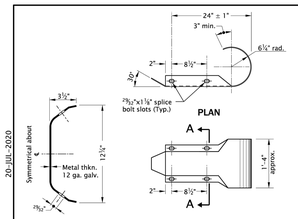
2024

DATE	REVISION DESCRIPTION

CALC. WORK NO. N/A | DSN DATE 13-JAN-2020 | **RD400**

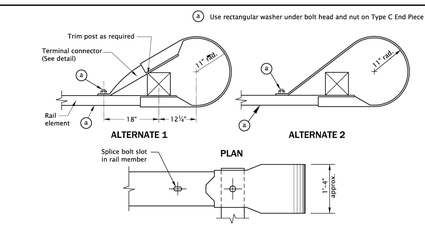
Effective Date: December 1, 2025 - May 31, 2026

20-JUL-2020 RD417.dgn

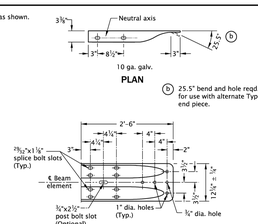


W-BEAM TYPE B END PIECE

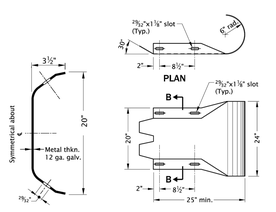
ⓐ Use rectangular washer under bolt head and nut on Type C End Piece as shown.



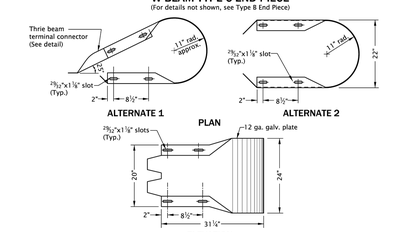
W-BEAM TYPE C END PIECE
(For details not shown, see Type B End Piece)



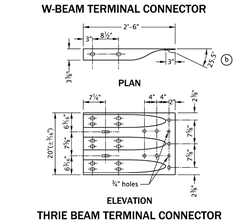
W-BEAM TERMINAL CONNECTOR



THRIE BEAM TYPE B END PIECE



THRIE BEAM TYPE C END PIECE



THRIE BEAM TERMINAL CONNECTOR

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:
1. See appropriate guardrail standard drawing(s) for details not shown.
2. For details of guardrail connections to structural handrails, see special details or Standard Drawings as called for on plans.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.

OREGON STANDARD DRAWINGS

MIDWEST GUARDRAIL SYSTEM END SECTIONS

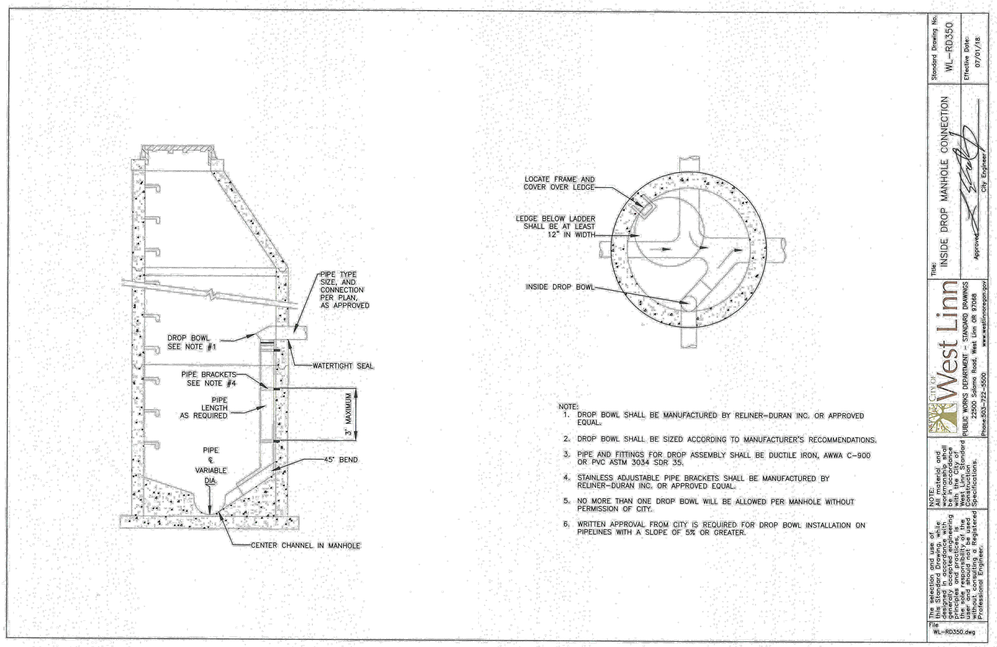
2024

DATE	REVISION DESCRIPTION

CALC. WORK NO. N/A | DSN DATE 13-JAN-2020 | **RD417**

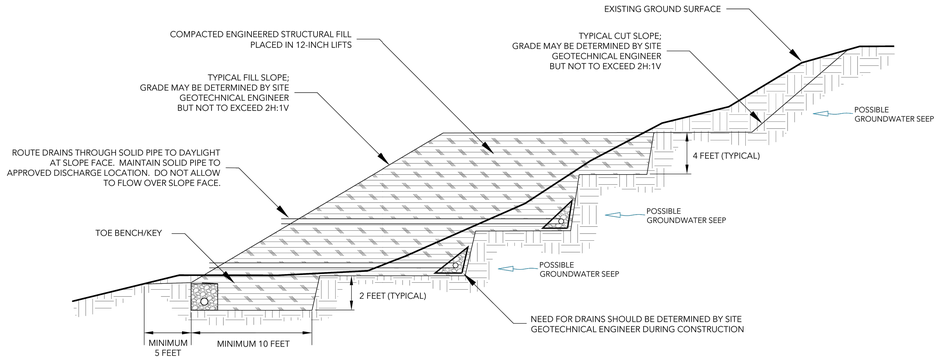
Effective Date: December 1, 2025 - May 31, 2026

THESE DRAWINGS ARE THE ORIGINAL UNPUBLISHED WORK OF THE ARCHITECT AND MAY NOT BE DUPLICATED OR USED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.



NOTE:
1. DROP BOWL SHALL BE MANUFACTURED BY RELINER-DURAN INC. OR APPROVED EQUAL.
2. DROP BOWL SHALL BE SIZED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
3. PIPE AND FITTINGS FOR DROP ASSEMBLY SHALL BE DUCTILE IRON, AWWA C-900 OR PVC ASTM 3034 SDR 35.
4. STAINLESS ADJUSTABLE PIPE BRACKETS SHALL BE MANUFACTURED BY RELINER-DURAN INC. OR APPROVED EQUAL.
5. NO MORE THAN ONE DROP BOWL WILL BE ALLOWED PER MANHOLE WITHOUT PERMISSION OF CITY.
6. WRITTEN APPROVAL FROM CITY IS REQUIRED FOR DROP BOWL INSTALLATION ON PIPELINES WITH A SLOPE OF 5% OR GREATER.

Standard Drawing No. WL-RD350
Effective Date: 07/01/18
Title: INSIDE DROP MANHOLE CONNECTION
Approved: City Engineer
CITY OF West Linn
PUBLIC WORKS DEPARTMENT – STANDARD DRAWINGS
22500 Salamo Road, West Linn, Oregon 97068
Phone: 503-722-5505
NOTE: All material and construction shall be in accordance with the Oregon Standard Specifications.
The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.
File # WL-RD350.dwg



TYPICAL CUT AND FILL SLOPE CROSS SECTION

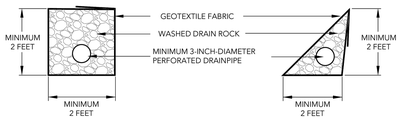
NTS

DRAIN SPECIFICATIONS

GEOTEXTILE FABRIC SHALL CONSIST OF MIRAFI 140N OR APPROVED EQUIVALENT WITH AOS BETWEEN U.S. STANDARD NO. 70 AND NO. 100 SIEVES.

WASHED DRAIN ROCK SHALL BE OPEN-GRADED ANGULAR DRAIN ROCK WITH LESS THAN 2 PERCENT PASSING THE U.S. STANDARD NO. 200 SIEVE AND A MAXIMUM PARTICLE SIZE OF 3 INCHES.

TYPICAL DRAIN SECTION DETAIL



100% CONSTRUCTION DOCUMENTATION 03.20.2026

ISSUE **DATE**

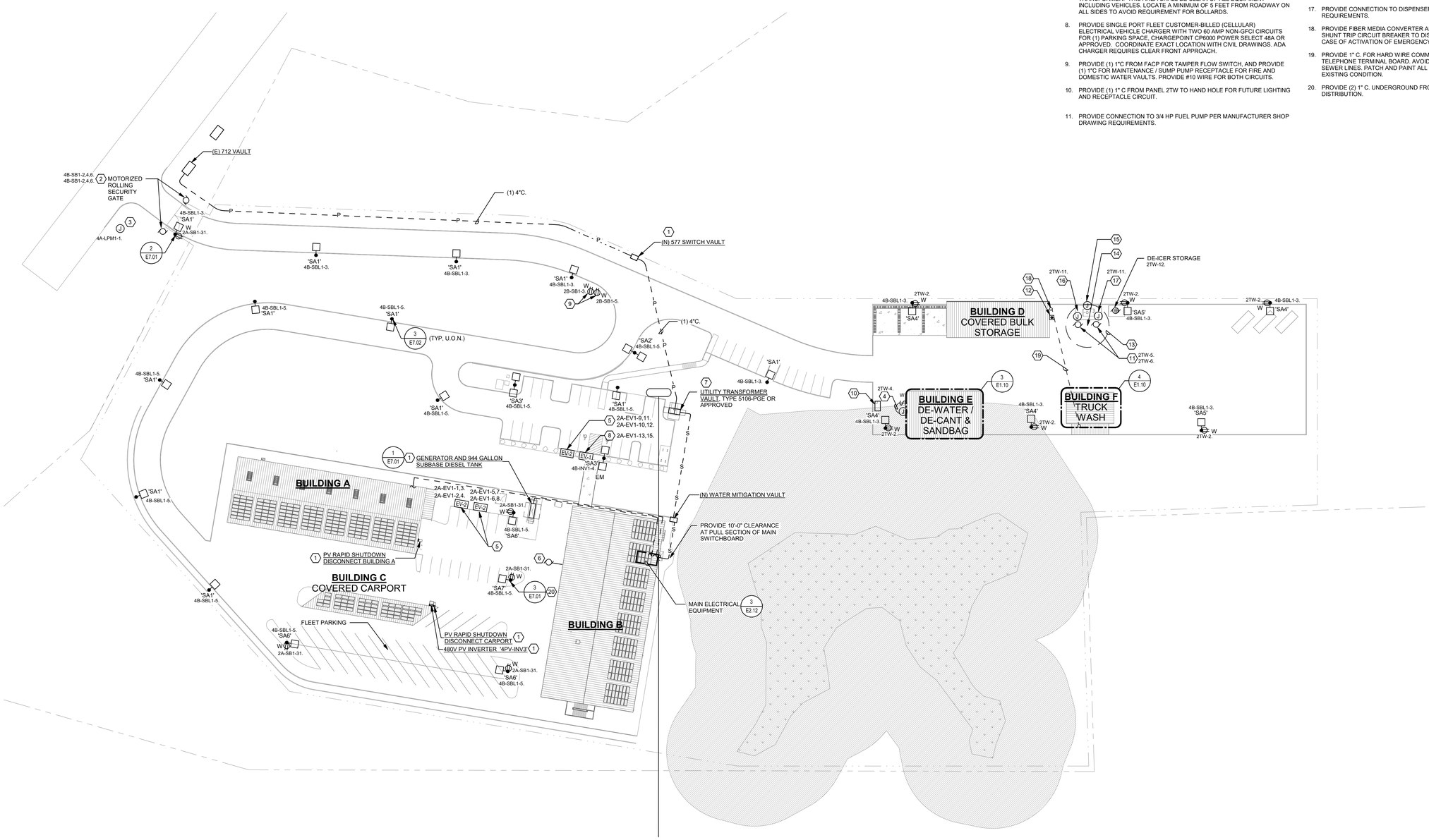
Drawing:

DETAILS

Sheet No:

C5.5

FILE PATH: Autodesk Docs://23028_West Linn Public Works/23028_West Linn Public Works_MEP_R25.rvt



1 SITE PLAN - ELECTRICAL

0' 40' 80'

1" = 40'-0"

THESE DRAWINGS ARE THE ORIGINAL UNPUBLISHED WORK OF THE ARCHITECT AND MAY NOT BE DUPLICATED OR USED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.

GENERAL SHEET NOTES

A. SEAL ALL CONDUIT PENETRATIONS TO PREVENT WATER INTRUSION.

B. ALL SITE LUMINAIRES ARE TO BE CIRCUITED AND CONTROLLED VIA BUILDING B LIGHTING CONTROL PANEL AND UNDERGROUND CONDUCTOR AND CONDUIT.

SHEET KEYNOTES

1. PROVIDE HEAVY DUTY BOLLARDS TO PROTECT EQUIPMENT FROM VEHICULAR TRAFFIC.
2. PROVIDE AND INSTALL UNDERGROUND MOTORIZED GATE VEHICLE EXIT AND SAFETY LOOP DETECTOR CABLES PER MANUFACTURER REQUIREMENTS. LOOP DETECTOR TO BE SET FURTHER DOWN THE DRIVE TO ALLOW GATE TO OPEN BEFORE TRUCKS APPROACH. COORDINATE LOCATION WITH ARCHITECT. PROVIDE ELECTRIC UTILITY KNOX BOX AT GATE LOCATION.
3. COORDINATE LOCATION OF MONUMENT SIGN WITH OWNER AND ARCHITECT.
4. PROVIDE 1" CONDUIT AND 120 VOLT 20 AMP TO EYEWASH OVERFLOW ALARM. COORDINATE LOCATION WITH ARCHITECT. COORDINATE CONNENCTION TO PORTABLE EYEWASH STATION WITH OWNER.
5. PROVIDE DUAL PORT FLEET CUSTOMER-BILLED (CELLULAR) ELECTRICAL VEHICLE CHARGER WITH TWO 60 AMP NON-GFCI CIRCUITS FOR (2) PARKING SPACES, CHARGEPOINT CP6000 POWER SELECT 48A OR APPROVED. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS.
6. PROVIDE CONDUIT AND CIRCUIT FOR SITE SANITARY LIFT STATION. COORDINATE LOCATION WITH CIVIL AND ARCHITECTURAL DRAWINGS. PROVIDE CONNECTION TO LIFT STATION CONTROL PANEL. REFER TO FLOOR PLAN ON SHEET E2.12 FOR EQUIPMENT. COORDINATE EXACT LOCATION WITH CIVIL AND ARCHITECTURAL DRAWINGS.
7. TRANSFORMER VAULT CLEARANCE EXTENDS 10-FEET IN FRONT OF TRANSFORMER. THIS AREA SHALL BE CLEAR OF ALL EQUIPMENT INCLUDING VEHICLES. LOCATE A MINIMUM OF 5 FEET FROM ROADWAY ON ALL SIDES TO AVOID REQUIREMENT FOR BOLLARDS.
8. PROVIDE SINGLE PORT FLEET CUSTOMER-BILLED (CELLULAR) ELECTRICAL VEHICLE CHARGER WITH TWO 60 AMP NON-GFCI CIRCUITS FOR (1) PARKING SPACE, CHARGEPOINT CP6000 POWER SELECT 48A OR APPROVED. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS. ADA CHARGER REQUIRES CLEAR FRONT APPROACH.
9. PROVIDE (1) 1"C FROM FACP FOR TAMPER FLOW SWITCH, AND PROVIDE (1) 1"C FOR MAINTENANCE / SUMP PUMP RECEPTACLE FOR FIRE AND DOMESTIC WATER VAULTS. PROVIDE #10 WIRE FOR BOTH CIRCUITS.
10. PROVIDE (1) 1" C FROM PANEL 2TW TO HAND HOLE FOR FUTURE LIGHTING AND RECEPTACLE CIRCUIT.
11. PROVIDE CONNECTION TO 3/4 HP FUEL PUMP PER MANUFACTURER SHOP DRAWING REQUIREMENTS.
12. PROVIDE NEMA 4X RED MUSHROOM HEAD FUEL TANK EMERGENCY AND MAINTENANCE DISCONNECT. EMERGENCY DISCONNECT TO OPEN ALL CIRCUITS INCLUDING NEUTRAL CONDUCTORS THAT ENTER THE CLASS 1 DIVISION 2 HAZARDOUS LOCATION VIA SHUNT TRIP BREAKERS IN PANEL '2TW'. PROVIDE RED WITH WHITE LETTERING ENGRACED LABEL AT MAINTENANCE DISCONNECT: "FUELING STATION EMERGENCY AND MAINTENANCE DISCONNECT". PER NEC 514.11(A) DISCONNECT SHALL NOT BE LESS THAN 20-FEET OR MORE THAN 100-FEET FROM THE FUEL DISPENSING DEVICES THAT THEY SERVE. IF THE TANK IS SUPPLIED WITH AN ADDITIONAL SHUTOFF DEVICE. ALL DEVICES SHALL BE INTERCONNECTED.
13. CLASS 1 DIVISION 2 HAZARDOUS LOCATION, WITHIN 18" OF DISPENSER ENCLOSURE, AND UP TO 18" ABOVE GRADE EXTENDING 20" AROUND THE FUEL DISPENSER. PROVIDE WIRING, CONDUIT,EQUIPMENT, CABLE, CIRCUITS AND SEALS FOR ALL CONDUITS, INCLUDING SPARES, LINE VOLTAGE, AND LOW VOLTAGE, THAT PASS THROUGH THIS LOCATION IN ACCORDANCE WITH NEC 501 AND NEC 514. PROVIDE SEALS AT PANELBOARD '2TW' FOR CIRCUITS AS REQUIRED BY NEC 501 AND NEC 514.
14. CLASS 1 DIVISION 1 HAZARDOUS LOCATION WITHIN DISPENSER ENCLOSURE AND DIRECTLY BELOW DISPENSER. PROVIDE WIRING, CONDUIT, EQUIPMENT, CABLES, CIRCUITS AND SEALS FOR ALL CIRCUITS THAT PASS THROUGH THIS LOCATION IN ACCORDANCE WITH NEC 501 AND NEC 514. PROVIDE SEALS AT PANELBOARD '2TW' FOR CIRCUITS AS REQUIRED BY NEC 501 AND NEC 514.
15. PROVIDE CONNECTION TO HIGH LEVEL ALARM FROM FUEL MANAGEMENT SYSTEM CONTROLLER PER MANUFACTURER SHOP DRAWING REQUIREMENTS.
16. PROVIDE CONNECTION TO FUEL MANAGEMENT SYSTEM CONTROLLER PER MANUFACTURER SHOP DRAWING. COORDINATE WITH OWNER PROJECT MANAGER. PROVIDE NECESSARY CABLE AND CONDUIT FROM DEVICE TO TELECOMMUNICATIONS ROOM.
17. PROVIDE CONNECTION TO DISPENSER ENCLOSURE PER SHOP DRAWING REQUIREMENTS.
18. PROVIDE FIBER MEDIA CONVERTER AND GFCI RECEPTACLE IN NEMA 3R ENCLOSURE. SHUNT TRIP CIRCUIT BREAKER TO DISCONNECT POWER FROM MEDIA CONVERTER IN CASE OF ACTIVATION OF EMERGENCY DISCONNECT. CIRCUIT RECEPTACLE TO 2TW-14.
19. PROVIDE 1" C. FOR HARD WIRE COMMUNICATIONS LINE, STUB-INTO BUILDING AT TELEPHONE TERMINAL BOARD. AVOID DISTURBING EXISTING WATER AND SANITARY SEWER LINES. PATCH AND PAINT ALL EXISTING HARDSCAPE SURFACES TO MATCH EXISTING CONDITION.
20. PROVIDE (2) 1" C. UNDERGROUND FROM LIGHTPOLE BOX FOR FUTURE SITE CIRCUIT DISTRIBUTION.

Scott Edwards Architecture
2525 E Burnside St. 503.226.3617
Portland, OR 97214 seallp.com

REGISTERED PROFESSIONAL ENGINEER
72777PE
OREGON
JUNE 30, 2025
MARK K. O'LEARY
EXPIRES: 12/31/26

WEST LINN OPERATIONS COMPLEX

Job Number: 23028

WEST LINN, OR

City of West Linn

INTERFACE ENGINEERING
PROJECT 2022-1449
CONTACT SOPHIE OSBORN
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

ISSUE	DATE
100% CONSTRUCTION DOCUMENTATION	03.20.2026

Drawing:

SITE PLAN - ELECTRICAL

Sheet No:

E1.01