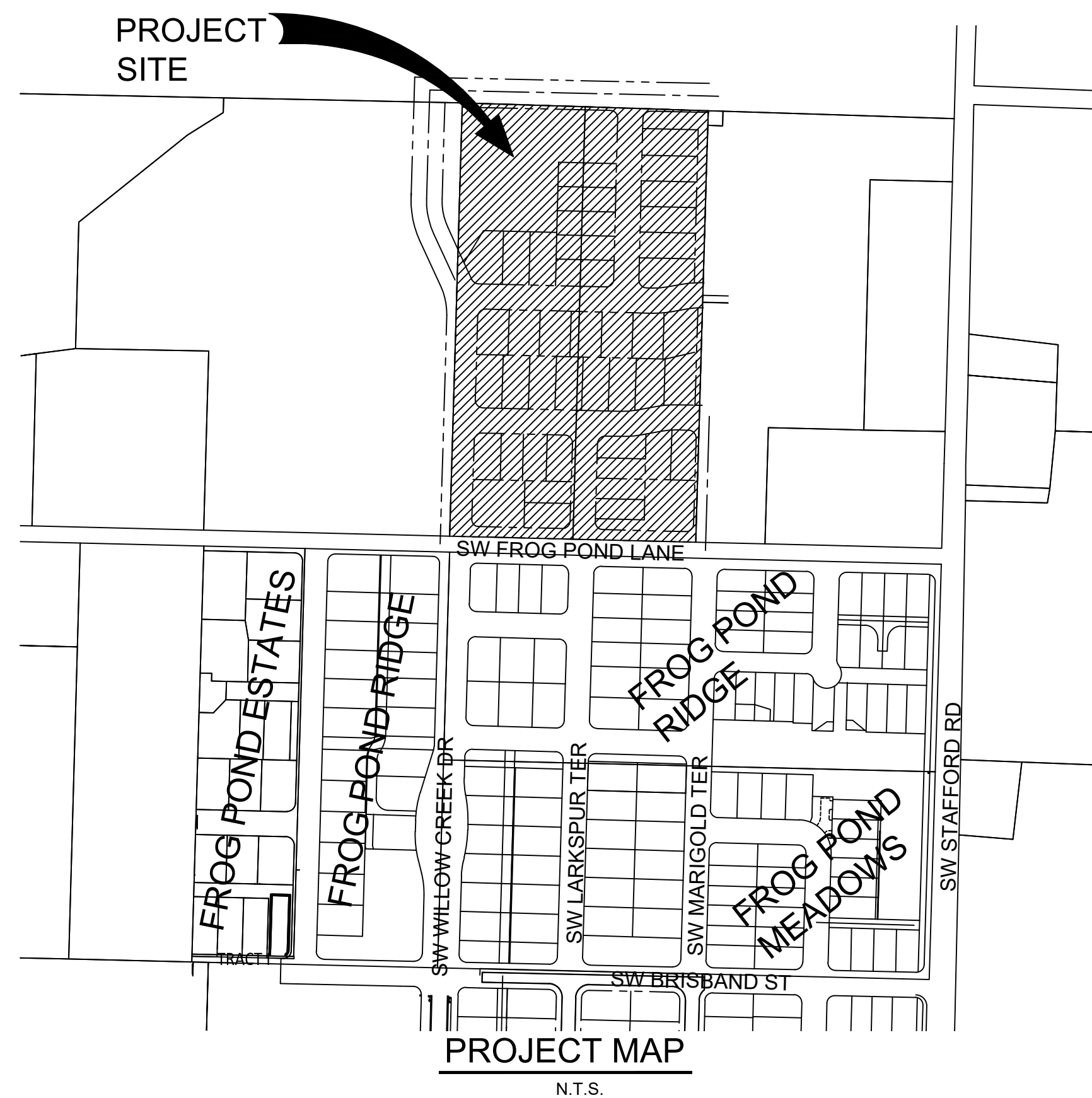
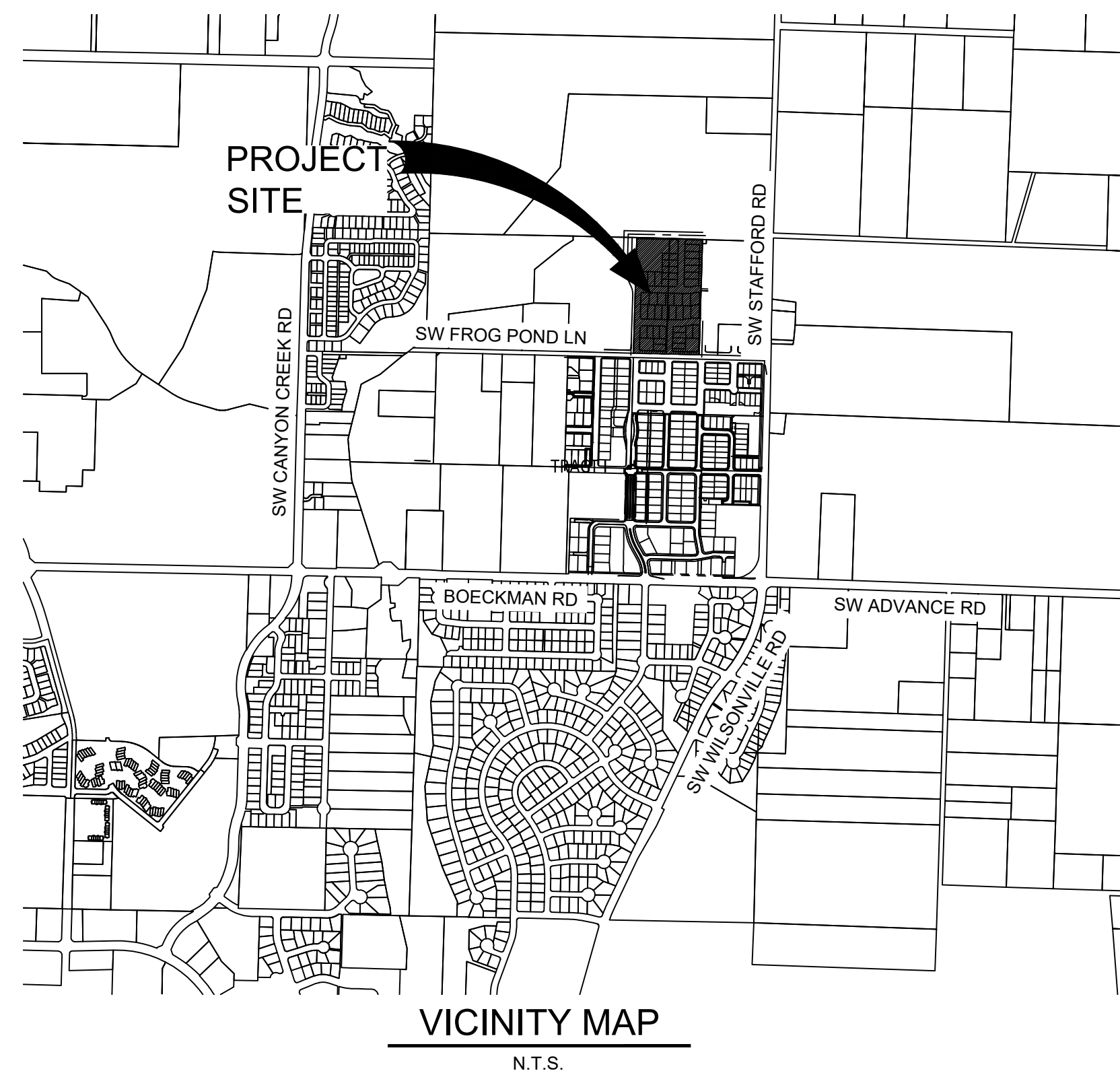
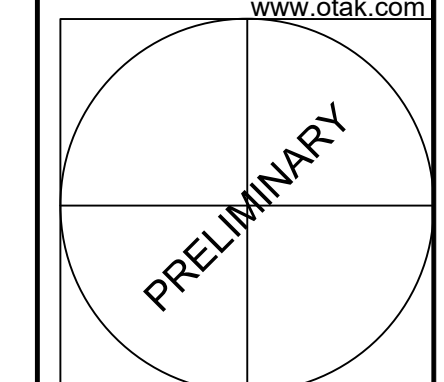


# FROG POND OAKS PLANNED DEVELOPMENT 41 DETACHED SINGLE FAMILY LOTS CITY OF WILSONVILLE, OREGON



Otak, Inc.  
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Portland, OR 97204  
503. 287. 6825  
www.otak.com



SHEET INDEX	
SHEET NUMBER	SHEET TITLE
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P1.10	EXISTING CONDITIONS - SURVEY MAPPING
P2.00	PRELIMINARY SITE PLAN
P2.10	PRELIMINARY STREET CROSS SECTIONS
P3.00	PRELIMINARY PLAT
P4.00	PRELIMINARY UTILITY PLAN
P5.00	PRELIMINARY GRADING PLAN
P6.00	ANNEXATION PLAN
P7.00	ZONING MAP
P8.00	PROPOSED CIRCULATION AND CONNECTIVITY
P9.00	SUBDISTRICTS AND DENSITY
L1.00	TREE PROTECTION AND REMOVAL PLAN
L1.10	EXISTING TREE TABLES
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L2.10	TRACTS D AND E LANDSCAPE PLAN
L2.20	TRACTS A AND B LANDSCAPE PLANS
L2.30	LIDA PLANTER LANDSCAPE PLANS
L2.40	LANDSCAPE NOTES AND DETAILS
IL-1	ILLUMINATION NOTES
IL-2	ILLUMINATION DETAILS
IL-3	ILLUMINATION DETAILS
IL-4	ILLUMINATION PLAN

### APPLICANT/ DEVELOPER

NAME: WEST HILLS LAND DEVELOPMENT  
CONTACT: DAN GRIMBERG  
ADDRESS: 3330 NW YEON AVENUE, SUITE 200  
PORTLAND, OR 97210  
PHONE: (503) 641-7342

### PLANNER /CIVIL ENGINEER/ SURVEYOR/ LANDSCAPE ARCHITECT

NAME: OTAK INCORPORATED  
PLANNER: LI ALLIGOOD, AICP  
ENGINEER: KEITH BUISMAN, P.E.  
SURVEYOR: MICHAEL SPELTS, PLS  
LANDSCAPE ARCHITECT: GABRIEL KRUSE  
ADDRESS: 808 SW THIRD AVENUE, SUITE 800  
PORTLAND, OR 97204  
PHONE: (503) 287-6825

### NATURAL RESOURCES CONSULTANT

NAME: AKS ENGINEERING & FORESTRY, LLC  
CONTACT: STACEY REED, PWS  
ADDRESS: 12965 SW HERMAN RD, SUITE 100  
TUALATIN, OR 97062  
PHONE: (503) 563-6151

### GEOTECHNICAL ENGINEER

NAME: HARDMAN GEOTECHNICAL SERVICES, INC.  
CONTACT: SCOTT HARDMAN, P.E.  
ADDRESS: 10110 SW NIMBUS AVENUE, SUITE B-5  
PORTLAND, OR 97223  
PHONE: (503) 530-8076

### ARBORIST

NAME: PORTLAND TREE CONSULTING  
CONTACT: RYAN NEUMANN  
ADDRESS: PO BOX 19042  
PORTLAND, OR 97280  
PHONE: (503) 421-3883

### SITE INFORMATION

CLACKAMAS COUNTY  
CITY OF WILSONVILLE, OREGON, 97070

TAXLOT	AREA (AC)
31W12D 00401 (6725 SW FROG POND LANE) 5.23	
31W12D 00402 (NO SITUS)	5.23
TOTAL	10.46

FROG POND OAKS  
41 DETACHED SINGLE FAMILY LOTS  
CITY OF WILSONVILLE, OREGON

COVER SHEET

TITLE		
#	DATE	DESCRIPTION

REVISIONS

NAV098  
DATUM

OTAK CAD KJB  
DRAWN BY CHECKED BY

LAND USE SUBMITTAL  
STATUS

FEBRUARY 18, 2022  
DATE

20141  
PROJECT NUMBER

**P0.00**

Plotted: Feb. 14, 2022 - 3:27pm Keith.Buisman L:\Project\2010\20141\CADD\CADD\Drawn\Error Pond - Oaks\20141P1.00.dwg Layout Name: P1.00

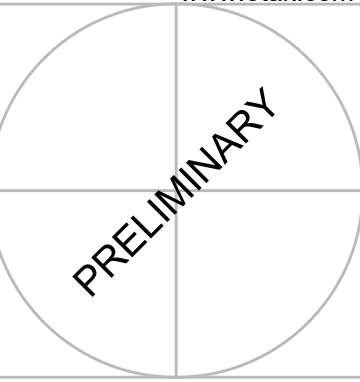


**EXISTING LEGEND**

PROPERTY LINE	---
PROJECT LIMITS	-----
EXISTING 5' CONTOUR	-----
OVERHEAD LINE	OHL
COM. CABLE LINE	C
GAS LINE	G
WATER LINE	W
ELECTRIC LINE	P
SANITARY SEWER LINE	SS
WETLANDS	-----
CULVERT PIPE	-----
TREES	★ ○



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**FROG POND OAKS**  
41 DETACHED SINGLE FAMILY LOTS  
CITY OF WILSONVILLE, OREGON

TITLE

#	DATE	DESCRIPTION

REVISIONS

NAV88  
DATUM

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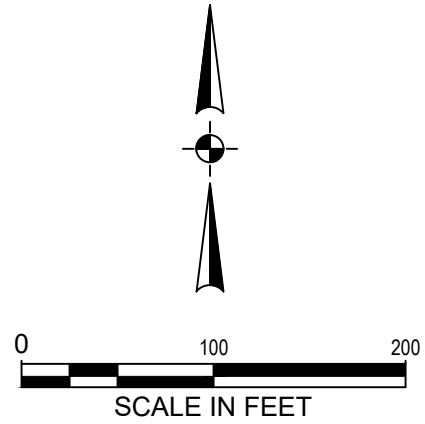
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STATUS

FEBRUARY 18, 2022  
DATE

20141  
PROJECT NUMBER

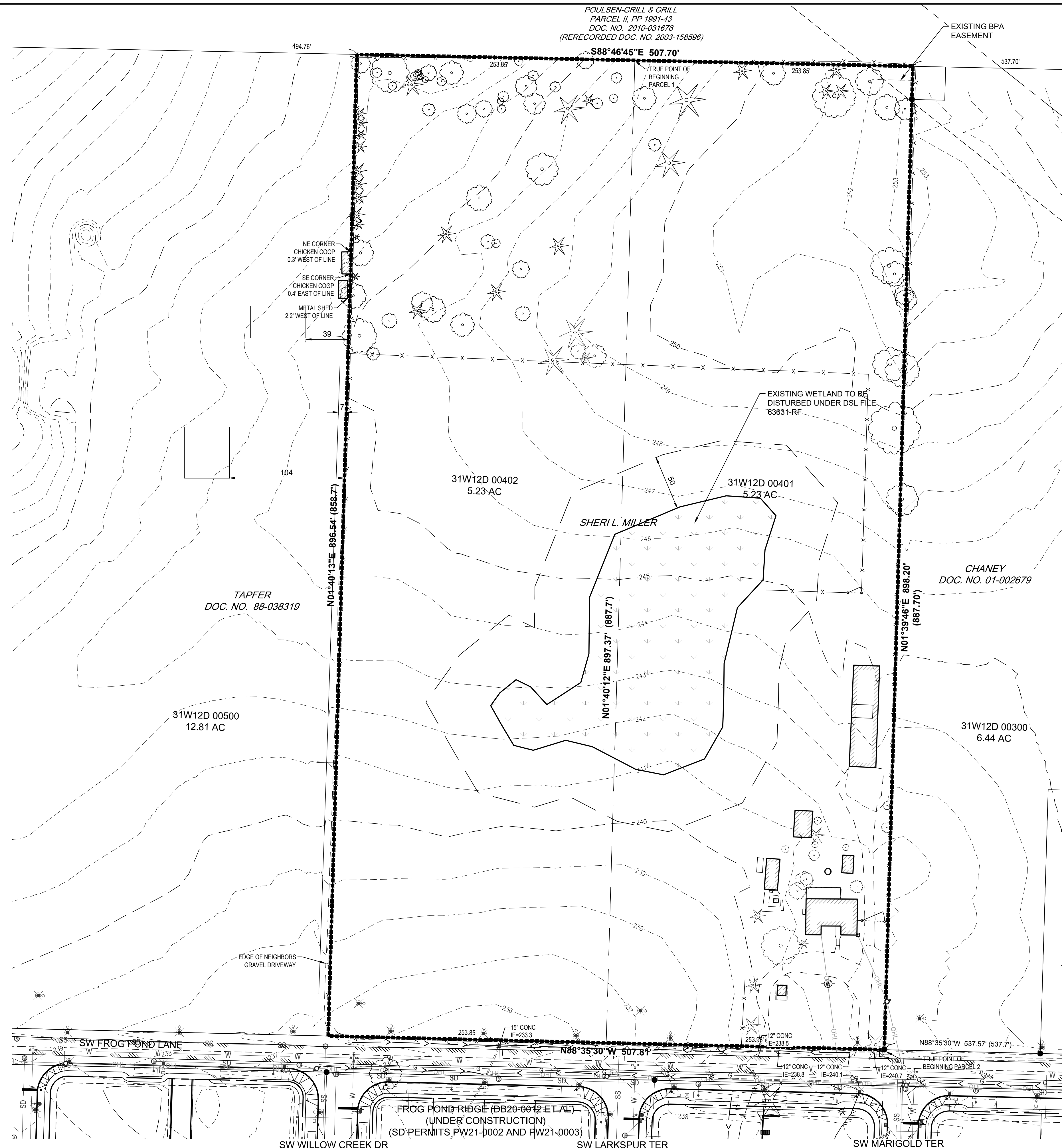
**P1.00**

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**EXISTING CONDITIONS - AERIAL**

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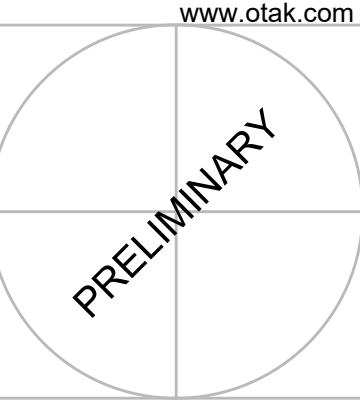


### EXISTING LEGEND

PROPERTY LINE	---
PROJECT LIMITS	-----
EXISTING 5' CONTOUR	- - - - -
OVERHEAD LINE	—OHL—
COM. CABLE LINE	—C—
GAS LINE	—G—
WATER LINE	—W—
ELECTRIC LINE	—P—
SANITARY SEWER LINE	—SS—
WETLANDS	-----
CULVERT PIPE	-----
TREES	★ ○



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**FROG POND OAKS**  
41 DETACHED SINGLE FAMILY LOTS  
CITY OF WILSONVILLE, OREGON

**EXISTING CONDITIONS - SURVEY MAPPING**

#	DATE	DESCRIPTION

REVISIONS

NAV88  
DATUM

OTAK CAD KJB  
DRAWN BY CHECKED BY

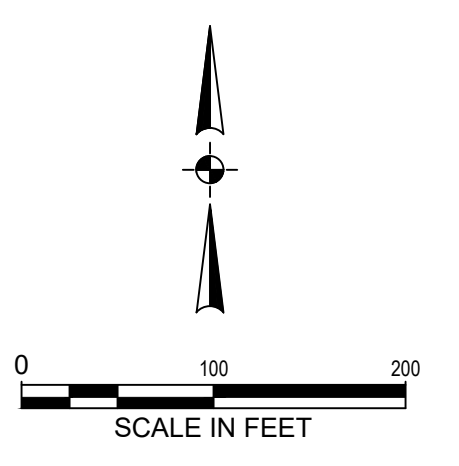
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STATUS

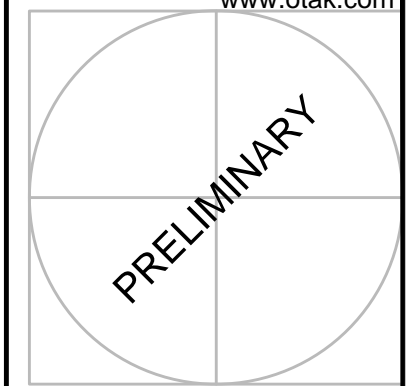
FEBRUARY 18, 2022  
DATE

20141  
PROJECT NUMBER

**P1.10**

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**LEGEND**

PROPERTY LINE	---
CENTER LINE	---
LOT LINE	---
LOT SETBACK	16
LOT NUMBER / NAME	
EASEMENT LINE	---
STANDARD CURB	---
SIDEWALK	---
RETAINING WALL	---
INTERSECTION SIGHT DISTANCE	[X] X=DESIGN SPEED(MPH)X10/MPH
TYPICAL STREET CROSS SECTION (SEE SHEET P2.10)	A P2.10
PUBLIC RAIN GARDEN	---
DRIVEWAY	---
CURB RAMP	---

**PARCELS**

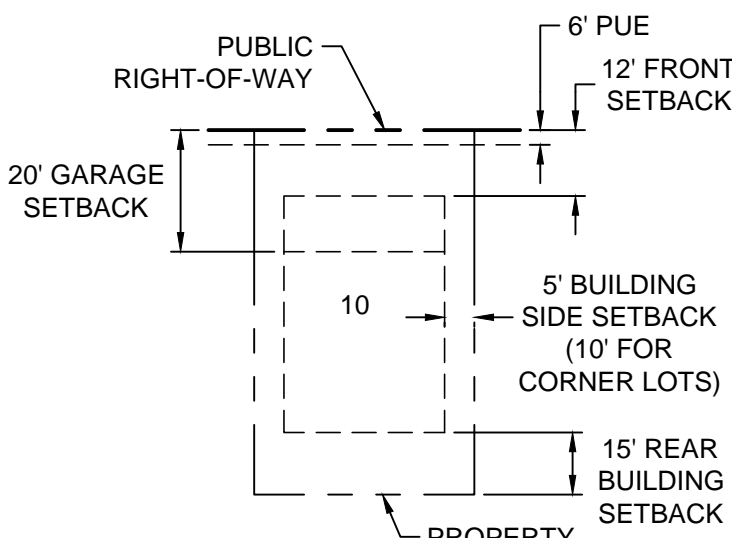
PARCEL	AREA
1	5318 SF
2	4427 SF
3	4698 SF
4	4984 SF
5	4300 SF
6	4891 SF
7	4236 SF
8	4220 SF
9	4204 SF
10	4569 SF
11	5213 SF
12	5161 SF
13	6166 SF
14	6042 SF
15	6031 SF
16	6055 SF
17	6055 SF
18	6055 SF
19	6055 SF
20	6000 SF
21	6008 SF
22	6007 SF
23	6007 SF
24	6007 SF
25	6007 SF
26	6021 SF
27	6191 SF
28	6553 SF
29	6074 SF
30	6078 SF
31	6082 SF
32	6086 SF
33	6320 SF
34	6000 SF
35	6000 SF
36	6000 SF
37	6000 SF
38	6545 SF
39	6050 SF
40	6050 SF
41	7023 SF

**TRACT/ROW AREA**

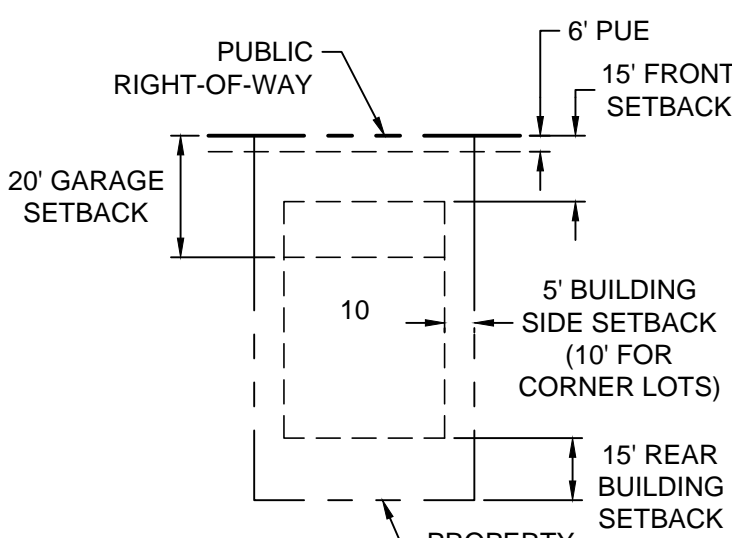
TRACT	AREA
TRACT A	10,405 SF
TRACT B	12,950 SF
TRACT C	2,988 SF
TRACT D	11,325 SF
TRACT E	65,913 SF

**Development Summary**

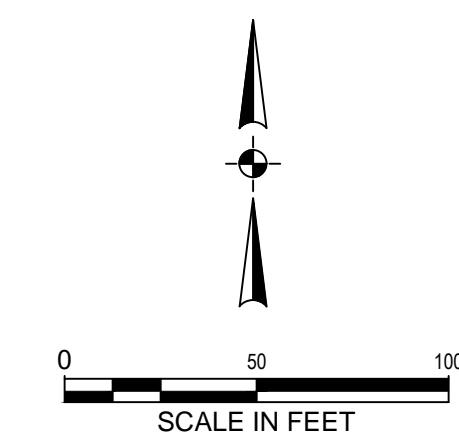
Residential lot Area	233,789	51.31%
Stormwater tracts	23,355	5.13%
Open space	80,230	17.61%
Right of way	118,258	25.95%
Total site area	455,632	100.00%
Minimum Lot Size	4,204 s.f.	
Average Lot size	5,702 s.f.	



**R5 FRONT LOADED SINGLE FAMILY BUILDING SETBACKS**  
LOTS 1-12 NTS



**R7 FRONT LOADED SINGLE FAMILY BUILDING SETBACKS**  
LOTS 13-41 NTS



FROG POND RIDGE (DB20-0012 ET AL)  
(UNDER CONSTRUCTION)  
(SD PERMITS PW21-0002 AND PW21-0003)

Plotted: Feb. 16, 2022 - 10:19am - stf@otak.com  
 I:\Projects\201002020141\CADD\CADD\Drawings\Frog Pond - Callouts\2021\41\F200.dwg - Layout Name: P2.00

**FROG POND OAKS**  
41 DETACHED SINGLE FAMILY LOTS  
CITY OF WILSONVILLE, OREGON

**PRELIMINARY SITE PLAN**

TITLE

#	DATE	DESCRIPTION

REVISIONS

NAVD88 DATUM

OTAK CAD KJB

DRAWN BY CHECKED BY

LAND USE SUBMITTAL STATUS

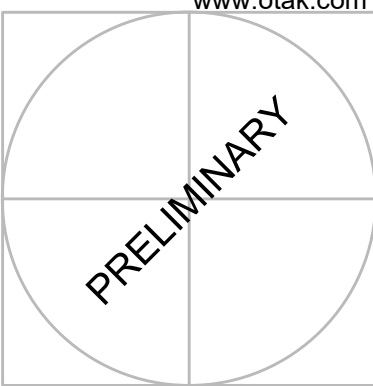
FEBRUARY 18, 2022 DATE

20015 PROJECT NUMBER

**P2.00**

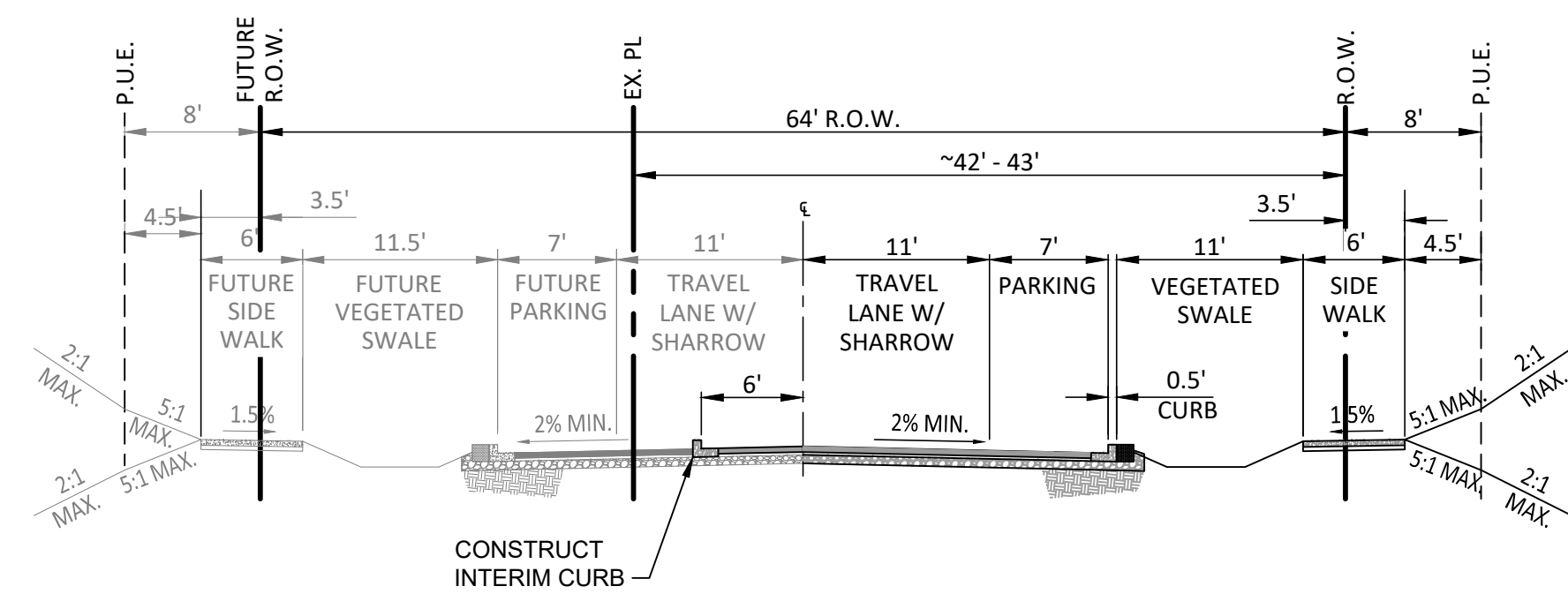
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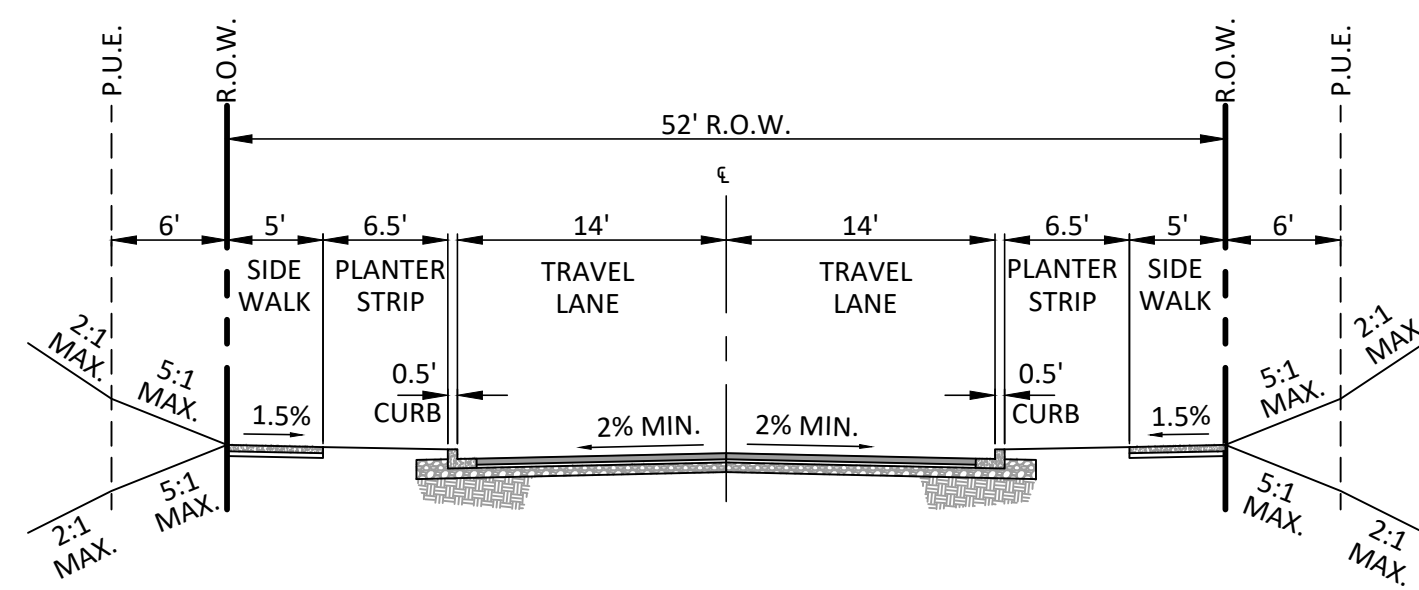


**FROG POND OAKS**  
41 DETACHED SINGLE FAMILY LOTS  
CITY OF WILSONVILLE, OREGON

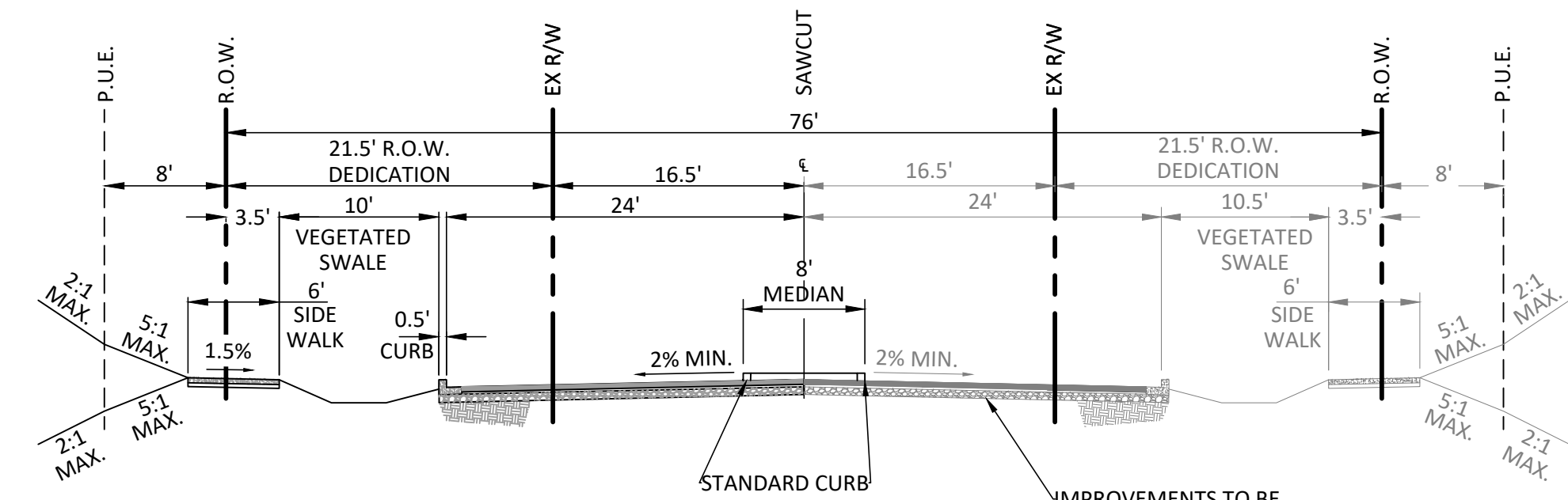
PRELIMINARY STREET CROSS SECTIONS



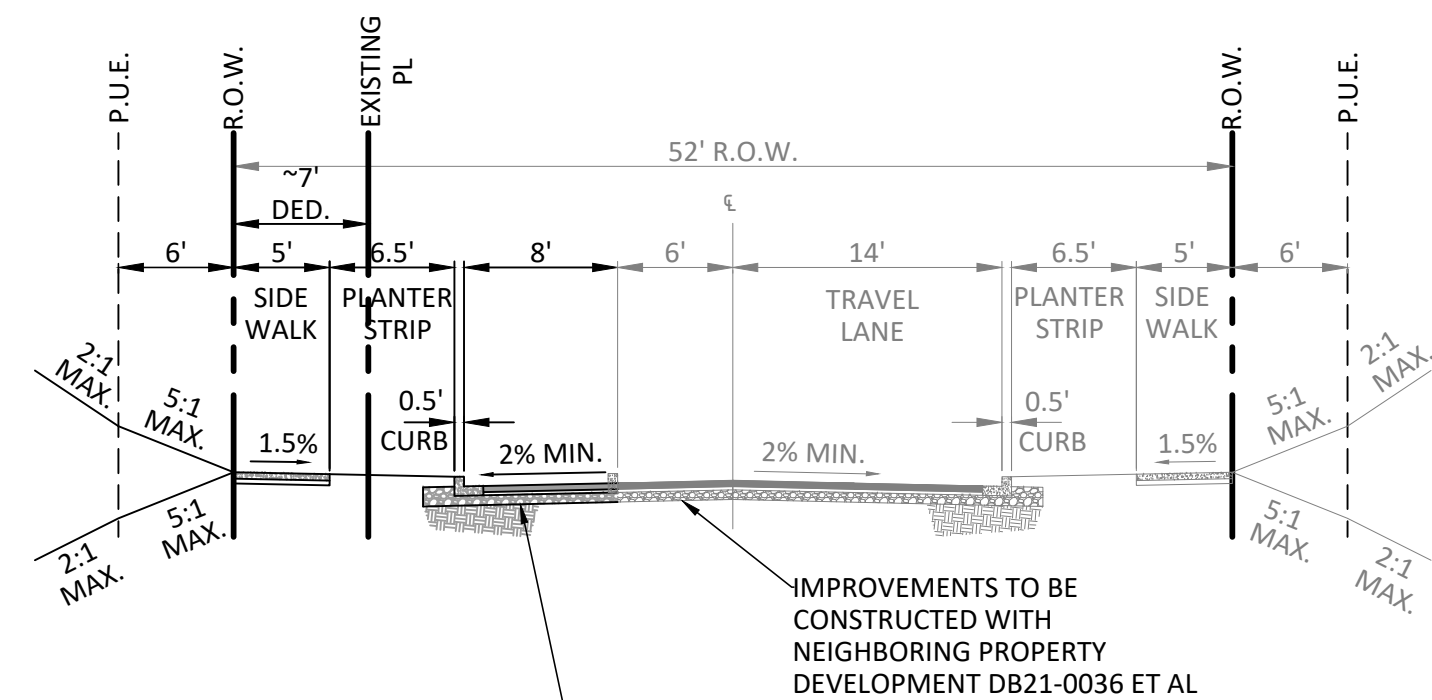
**A** **WILLOW CREEK DR**  
(COLLECTOR - GATEWAY - PARKING ON BOTH SIDES)  
SCALE: 1" = 10'-0"



**B** **STREET C, STREET D, STREET E, LARKSPUR TERRACE**  
(LOCAL STREET - PARKING ON BOTH SIDES)  
SCALE: 1" = 10'-0"



**C** **SW FROG POND LN**  
(COLLECTOR - GATEWAY - NO PARKING)  
SCALE: 1" = 10'-0"



**D** **SW MARIGOLD TERRACE**  
(LOCAL STREET - PARKING ON BOTH SIDES)  
SCALE: 1" = 10'-0"

IMPROVEMENTS TO BE CONSTRUCTED WITH NEIGHBORING PROPERTY DEVELOPMENT DB21-0036 ET AL  
CURB AND 8-FOOT WIDENING ONLY TO BE CONSTRUCTED IF R/W ON NEIGHBORING DEVELOPMENT IS DEDICATED AND CONSTRUCTION PERMITS ISSUED FOR EASTERN PORTION OF MARIGOLD TERRACE

**STREET CROSS SECTIONS**

SEE SHEET P2.00 FOR SECTION LOCATIONS

#	DATE	DESCRIPTION

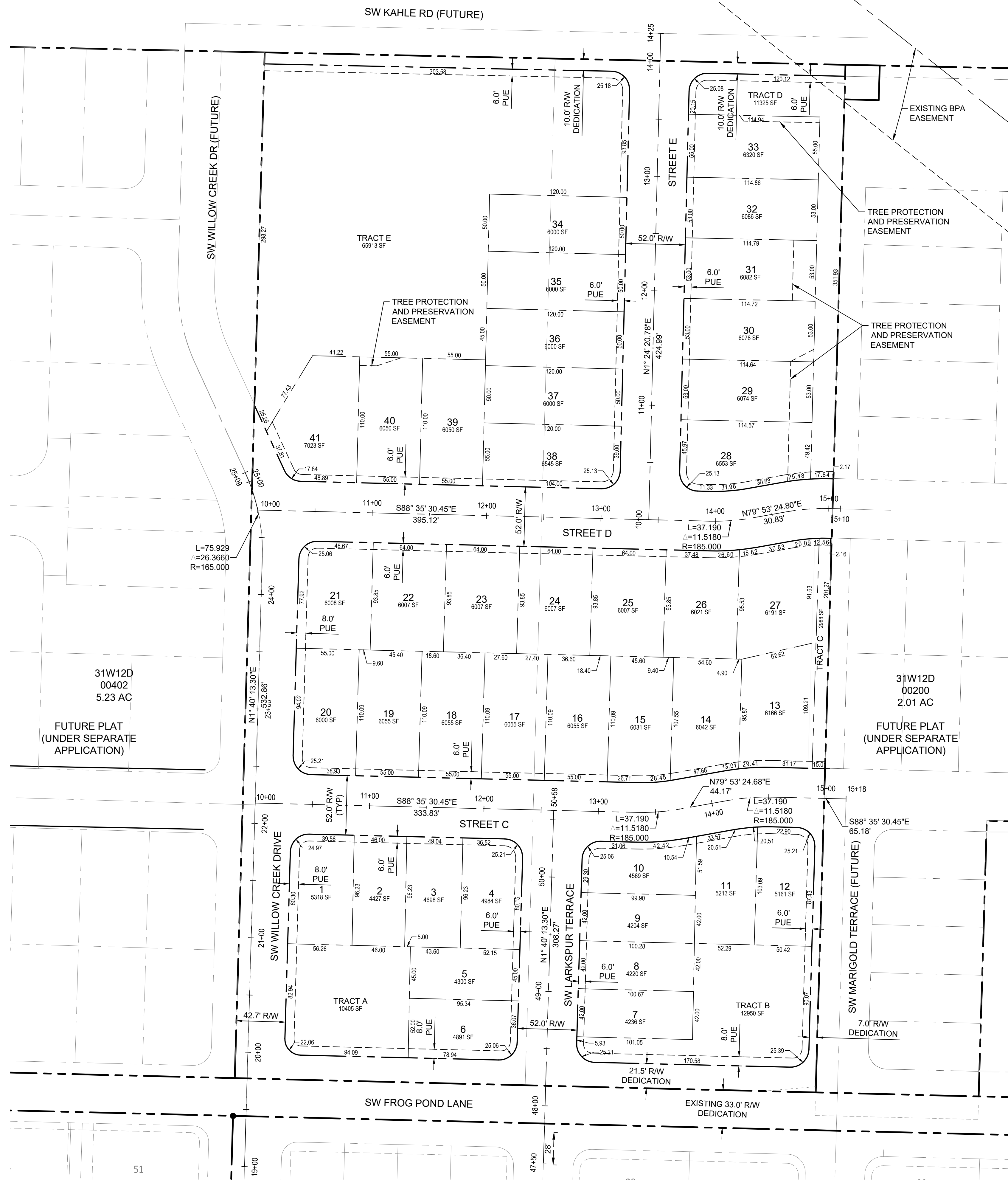
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NAV/D88	
DATUM	
OTAK CAD	KJB
DRAWN BY	CHECKED BY
LAND USE SUBMITTAL	STATUS
FEBRUARY 18, 2022	DATE
20141	PROJECT NUMBER

**P2.10**

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Plotted: Feb. 14, 2022, 3:30pm. Keith Buisman L:\Projects\201002011\CAD\ADD\DWG\Frog Pond - Otak\20141\F300.dwg Layout Name: P3.00

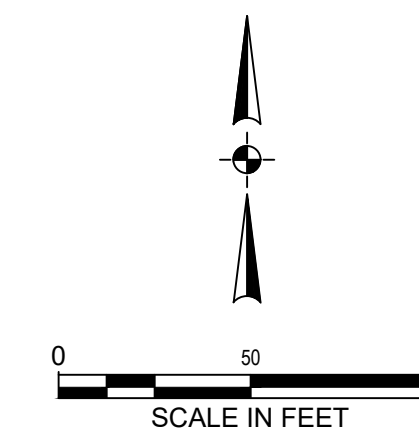


### GENERAL NOTES

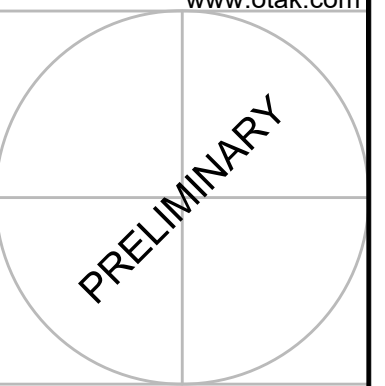
- TRACTS A AND B ARE FOR STORMWATER TREATMENT PURPOSES AND ARE SUBJECT TO A STORM DRAINAGE AND STORMWATER PIPELINE EASEMENT TO BENEFIT THE CITY OF WILSONVILLE, OVER ITS ENTIRETY.
- TRACTS C THROUGH E ARE FOR NATURAL RESOURCE PURPOSES.
- TRACTS D AND E ARE SUBJECT TO A TREE PROTECTION AND PRESERVATION EASEMENT OVER THEIR ENTIRETY.

### LEGEND

PLAT BOUNDARY	---
RIGHT OF WAY	---
CENTER LINE	---
LOT LINE	---
EASEMENT LINE	---
LOT NUMBER / NAME	2



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**FROG POND OAKS**  
 41 DETACHED SINGLE FAMILY LOTS  
 CITY OF WILSONVILLE, OREGON

**PRELIMINARY PLAT**

TITLE

#	DATE	DESCRIPTION

REVISIONS

NAVD98 DATUM

OTAK CAD KJB  
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LAND USE SUBMITTAL STATUS

FEBRUARY 18, 2022 DATE

20141 PROJECT NUMBER

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STAMP  
**WEST HILLS**  
LAND DEVELOPMENT  
CONSULTANT

**FROG POND OAKS**  
41 DETACHED SINGLE FAMILY LOTS  
CITY OF WILSONVILLE, OREGON

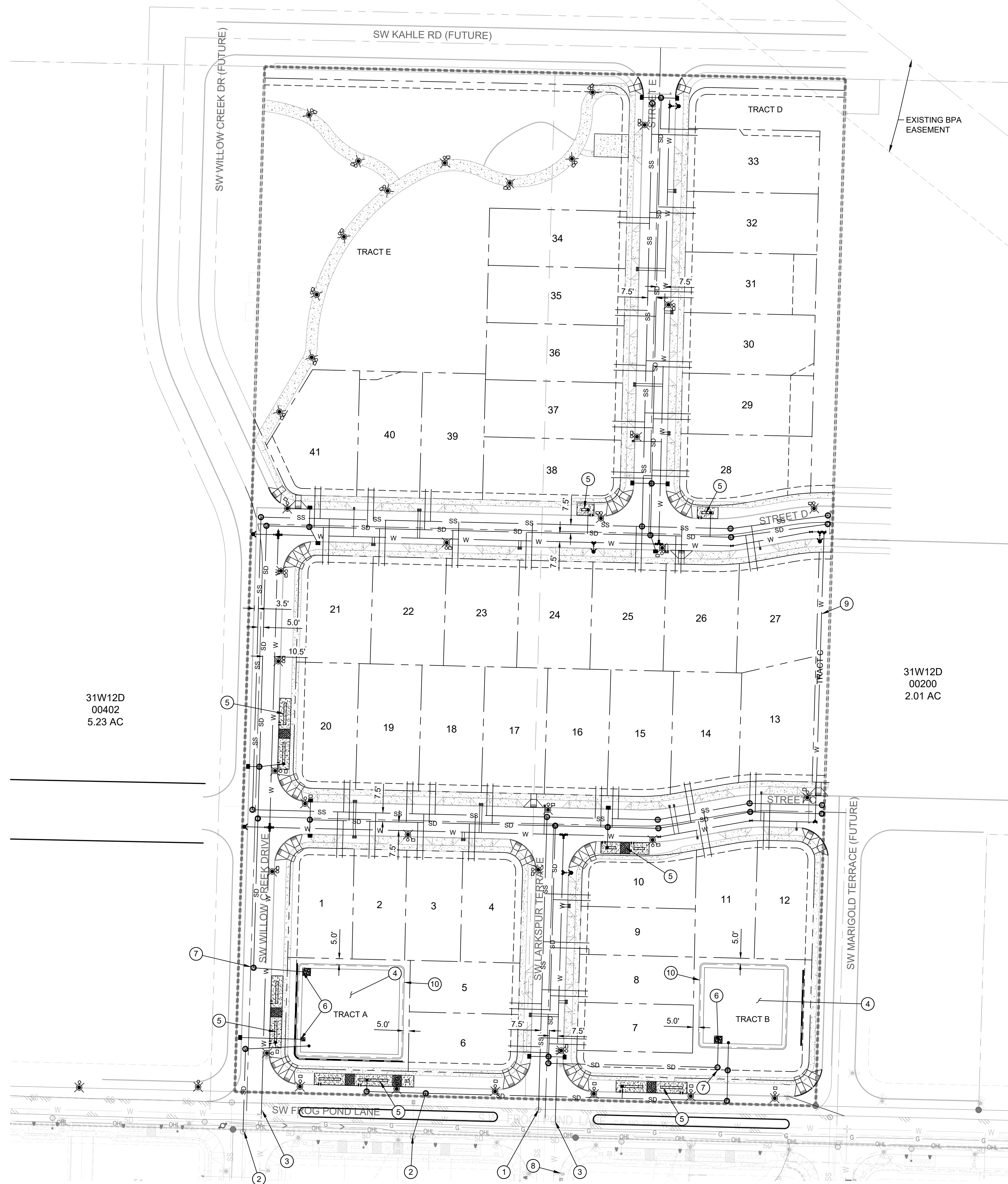
PRELIMINARY UTILITY PLAN

**UTILITY KEY NOTES**

- ① CONNECT TO EXISTING SANITARY SEWER.
- ② CONNECT TO EXISTING STORM SEWER.
- ③ CONNECT TO EXISTING WATER LINE.
- ④ PROPOSED RAIN GARDEN (CITY STD. DWG. ST-6020)
- ⑤ PROPOSED VEGETATED SWALE (CITY STD. DWG. ST-6045 W/ 12" WIDE CONCRETE STEP-OFF WALK ADJACENT TO PAVEMENT.
- ⑥ STORM SEWER OUTFALL TO RAIN GARDEN.
- ⑦ PROPOSED WATER QUALITY MANHOLE.
- ⑧ EXISTING FIRE HYDRANT.
- ⑨ CONSTRUCT TEMPORARY 4-INCH WATER LINE IN 15-FOOT EASEMENT IF WATERLINE PERMITS HAVE NOT BEEN ISSUED FOR NEIGHBORING DEVELOPMENT TO EAST. OTHERWISE, TIE-IN WATERLINES TO EAST PROPERTY BOUNDARY FOR STREETS C AND D.
- ⑩ PROPOSED TOP OF RAIN GARDEN FREEBOARD SURFACE.

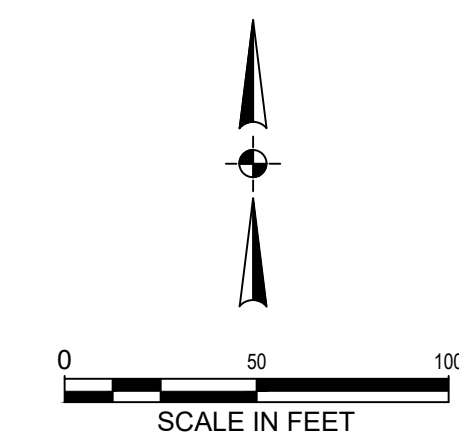
**LEGEND**

SITE	PROPOSED
PROJECT BOUNDARY	-----
STORM DRAIN MANHOLE	⊕
STORM DRAIN CLEAN OUT	⊙
LIDA FLOW CONTROL STRUCTURE (BEEHIVE: CITY STANDARD DWG. ST-6120)	•
CATCH BASIN	■
STORM DRAIN MAIN	— SD —
STORM DRAIN LATERAL	— SD —
SANITARY SEWER MANHOLE	⊕
SANITARY SEWER CLEAN OUT	⊙
SANITARY SEWER MAIN	— SS —
SANITARY SEWER LATERAL	— SS —
WATER VALVE	⊕
WATER BLOW-OFF	⊕
WATER METER	⊕
WATER FIRE HYDRANT	⊕
WATER MAIN	— W —
WATER LATERAL	— W —
PUBLIC LIDA W/CURB OPENINGS (CITY STD. DWG. ST-6012)	⊕
STREET LIGHT PGE OPTION "B" LED WITH WESTBROOKE 35W LED AND 18" DECORATIVE ALUMINUM POLE (20" MOUNTING HEIGHT W/ 4" MAST ARM)	⊕



31W12D  
00402  
5.23 AC

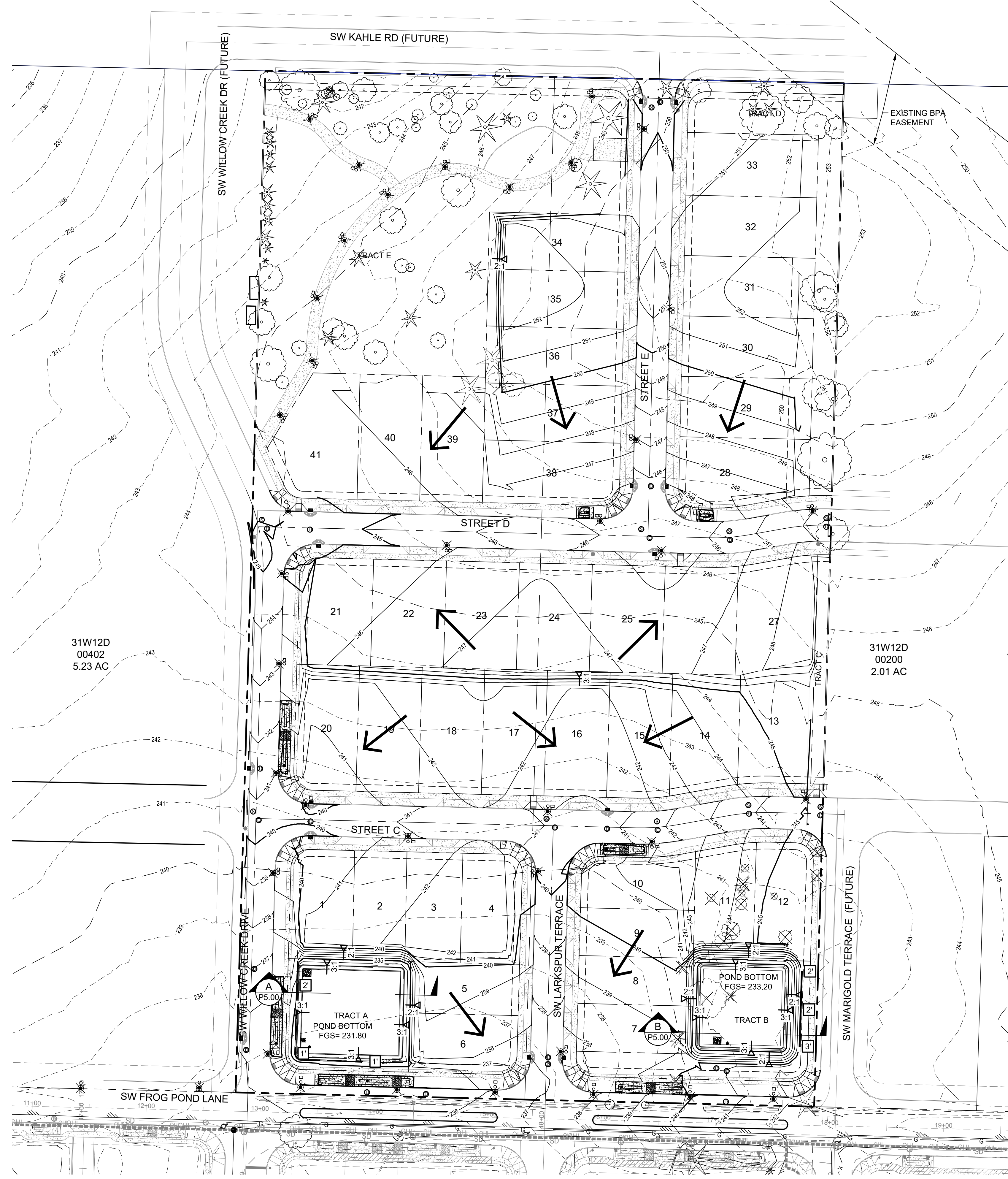
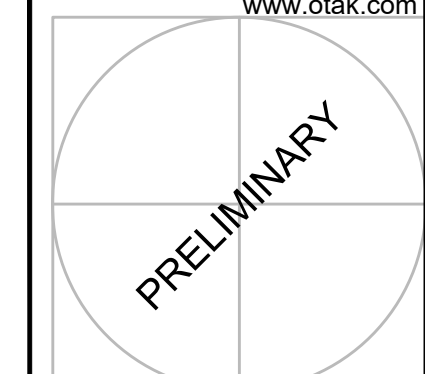
31W12D  
00200  
2.01 AC



Plotted: Feb. 15, 2022 - 6:46am Keith Buisman L:\Projects\201002011\1\CAD\ACAD\Drawl\From\Print - Otak\P20141P400.dwg Layout Name: P4.00

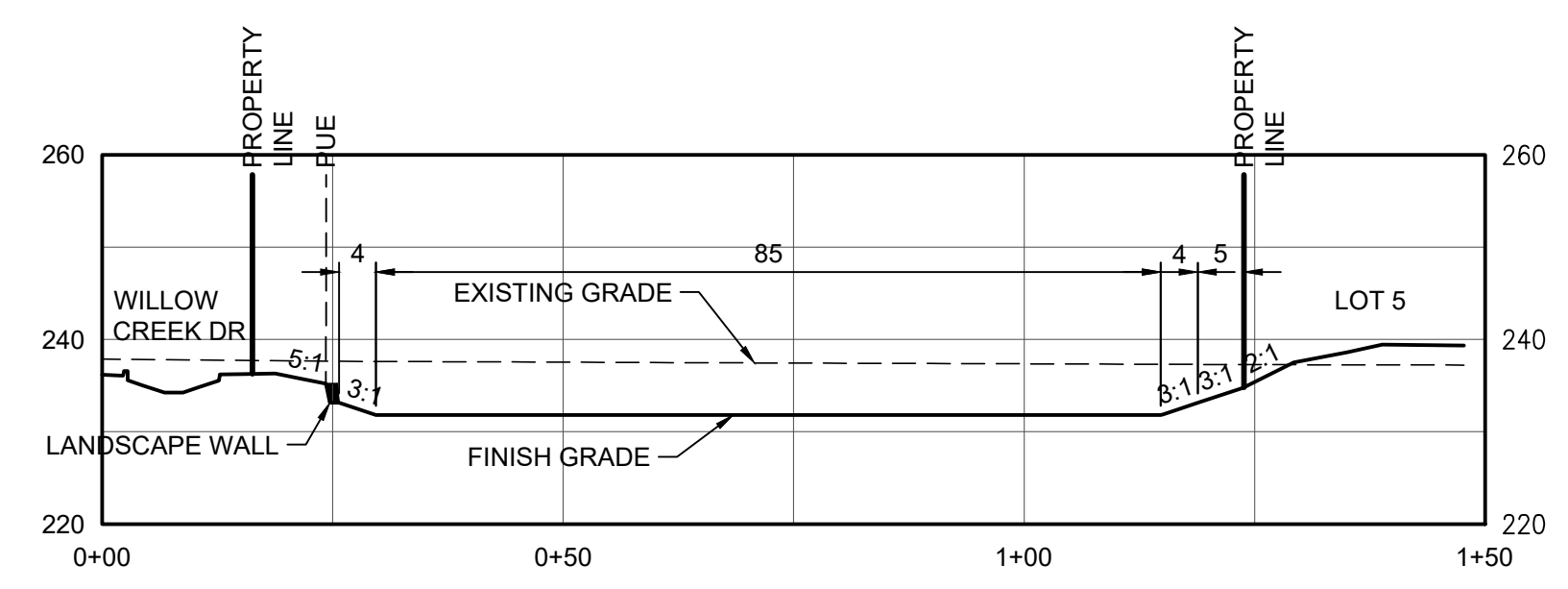
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REVISIONS  
NAVD08  
DATUM  
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LAND USE SUBMITTAL  
STATUS  
FEBRUARY 18, 2022  
DATE  
20141  
PROJECT NUMBER  
**P4.00**  
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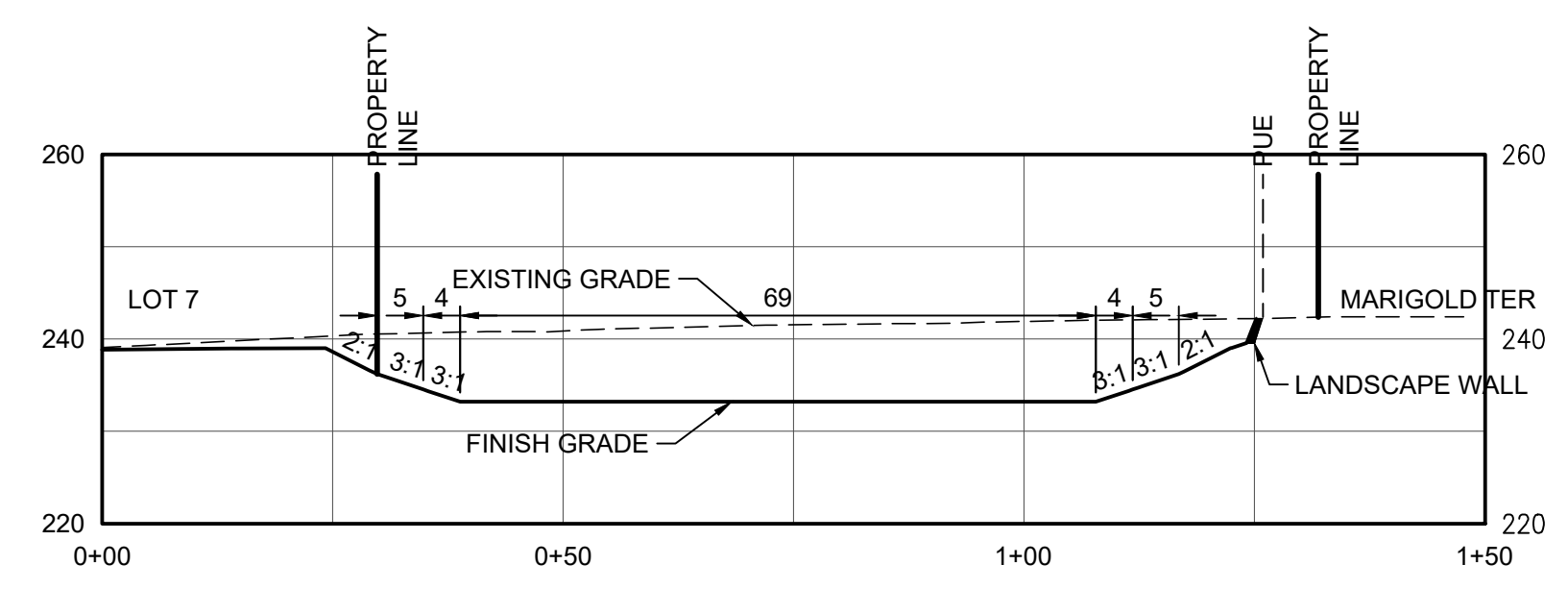
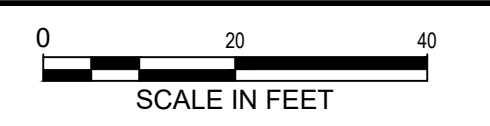


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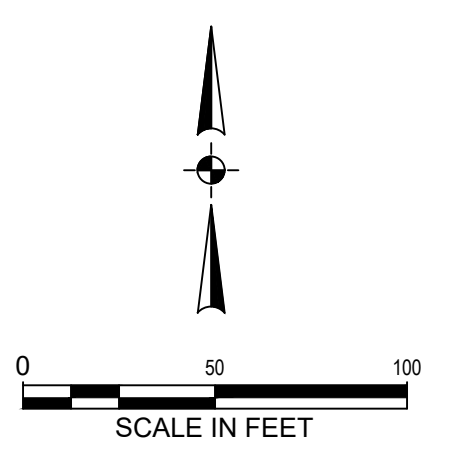
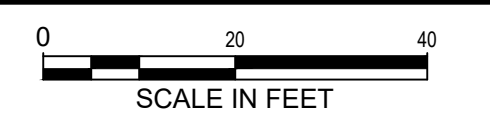
- EXISTING 1' CONTOUR - - - - - 276
- EXISTING 5' CONTOUR - - - - - 280
- PROPOSED 1' CONTOUR - - - - - 276
- PROPOSED 5' CONTOUR - - - - - 280
- RETAINING WALL =====
- LOT FLOW ARROW ➔
- EXISTING TREES TO REMAIN ☉ ☼
- EXISTING TREES TO BE REMOVED ☒ ☒
- APPROXIMATE WALL HEIGHT 6'



**SECTION A-A**



**SECTION B-B**



**FROG POND OAKS**  
41 DETACHED SINGLE FAMILY LOTS  
CITY OF WILSONVILLE, OREGON

**PRELIMINARY GRADING PLAN**

TITLE		
#	DATE	DESCRIPTION

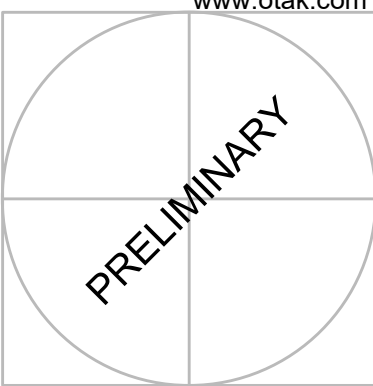
  

REVISIONS	
NAVDB8	DATUM
OTAK CAD	KJB
DRAWN BY	CHECKED BY
LAND USE SUBMITTAL	STATUS
FEBRUARY 18, 2022	DATE
20141	PROJECT NUMBER

**P5.00**  
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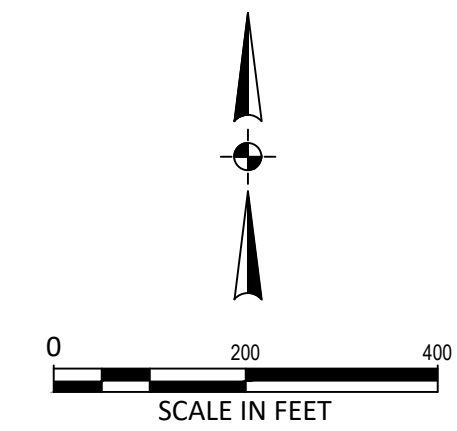
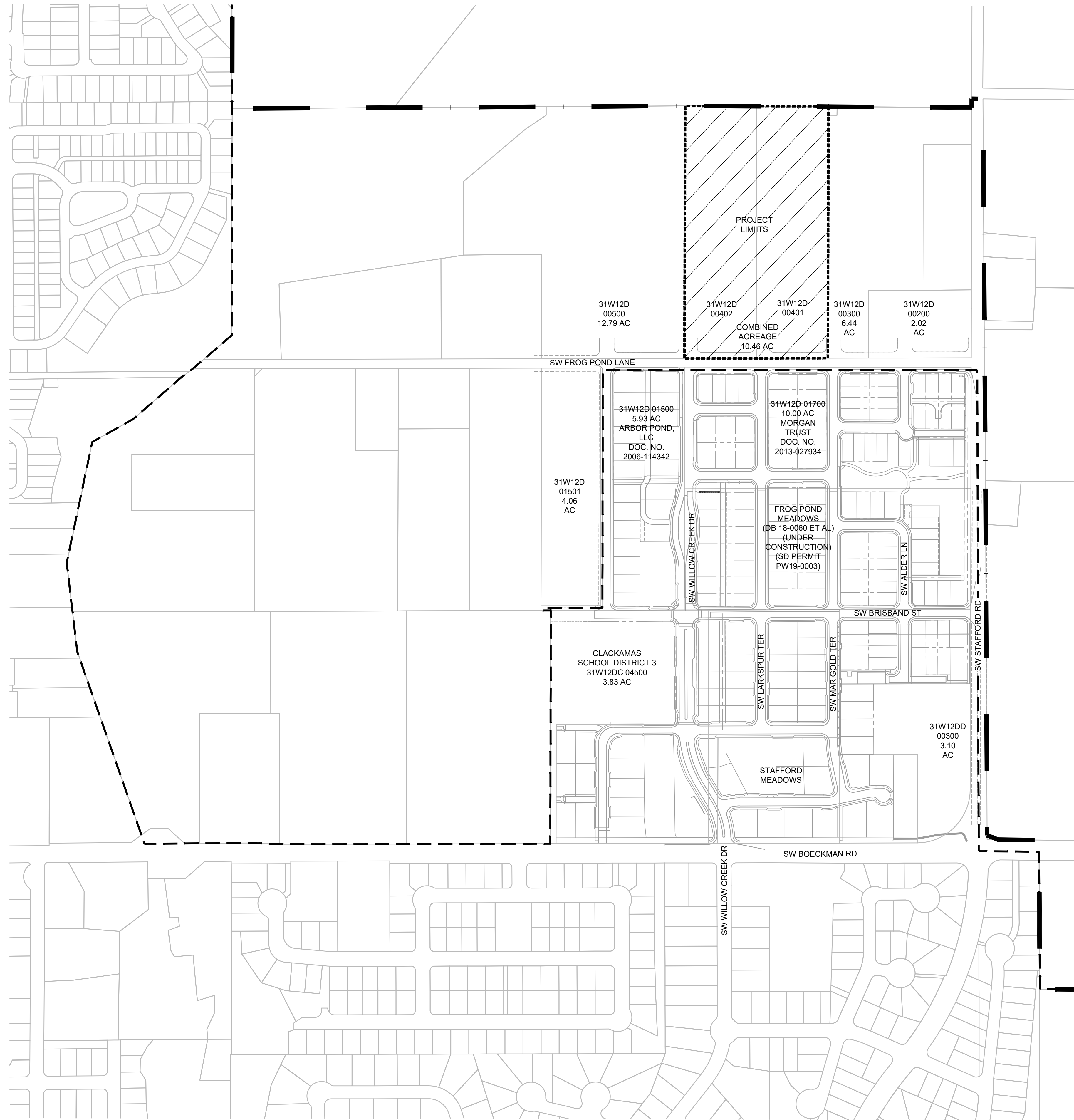
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**FROG POND OAKS**  
41 DETACHED SINGLE FAMILY LOTS  
CITY OF WILSONVILLE, OREGON

**ANNEXATION PLAN**



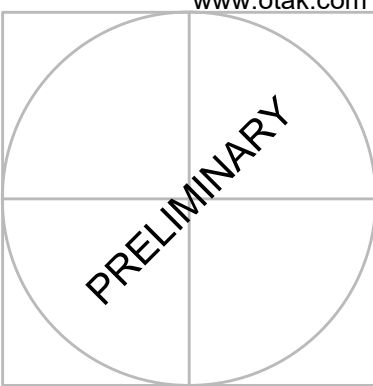
**LEGEND**

- PROJECT LIMITS
- EXISTING CITY LIMITS
- EXISTING URBAN GROWTH BOUNDARY
- PROPOSED AREA TO BE ANNEXED TO THE CITY OF WILSONVILLE

#	DATE	DESCRIPTION

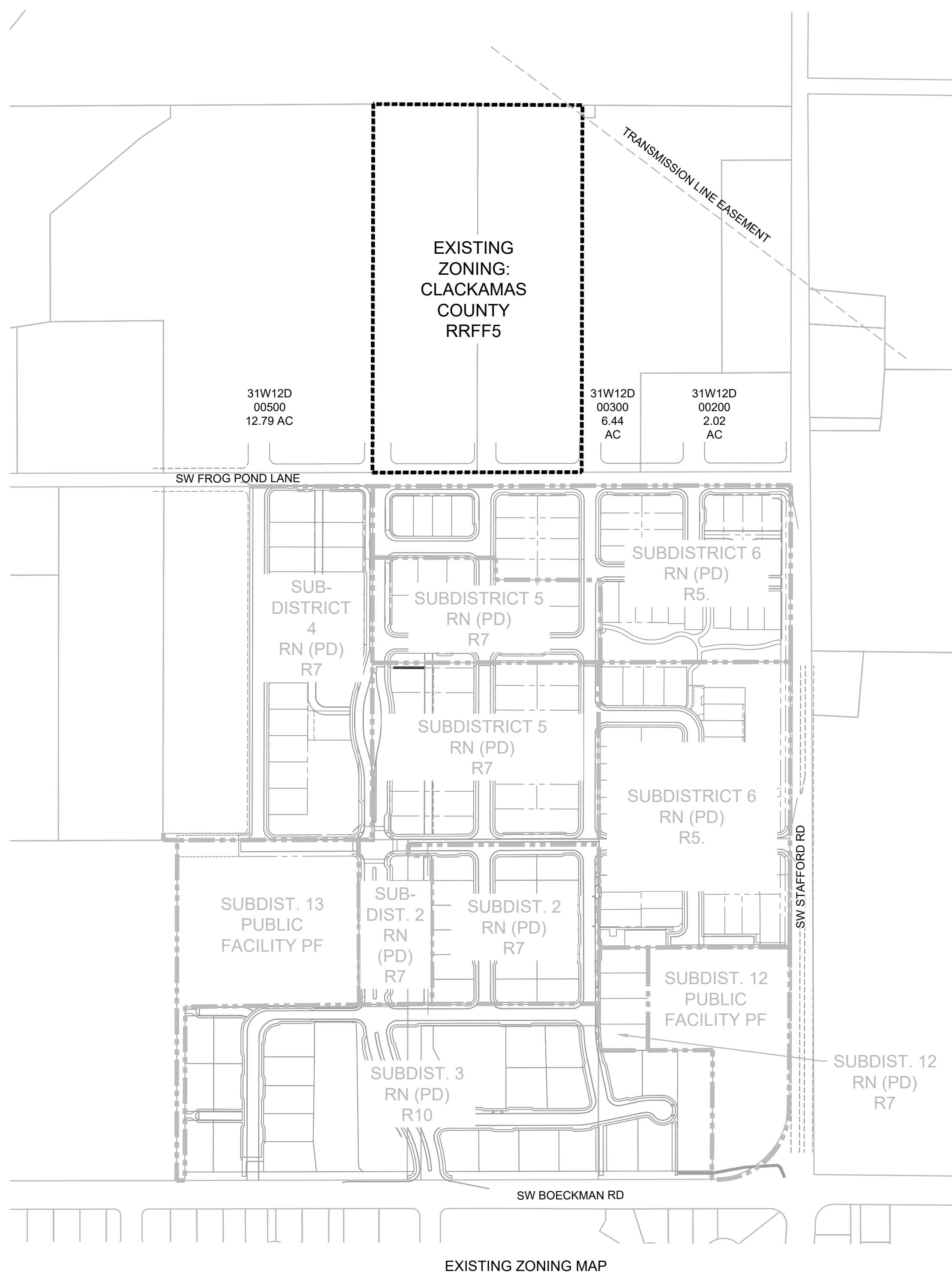
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FEBRUARY 18, 2022 DATE	
20141 PROJECT NUMBER	

**P6.00**

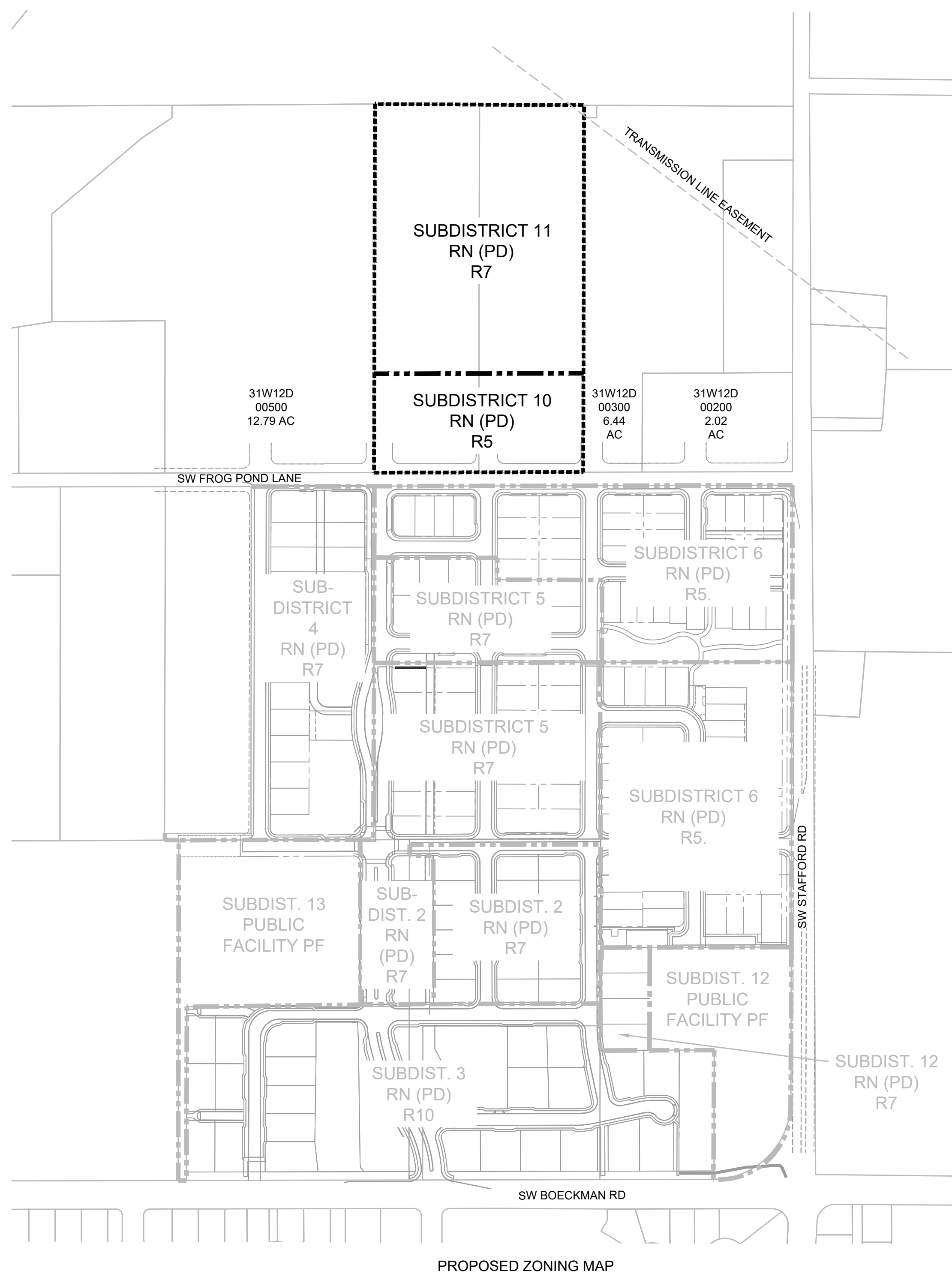


**FROG POND OAKS**  
41 DETACHED SINGLE FAMILY LOTS  
CITY OF WILSONVILLE, OREGON

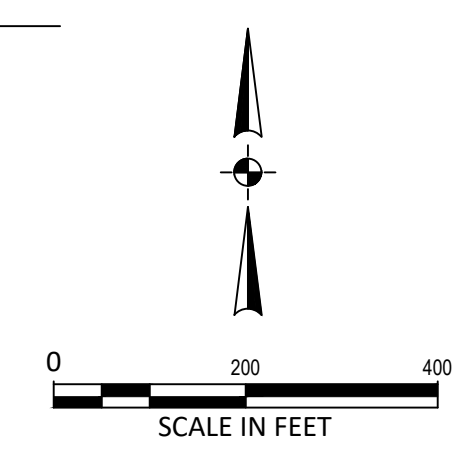
**ZONING MAP**



EXISTING ZONING: CLACKAMAS COUNTY RRF5



PROPOSED ZONING: CITY OF WILSONVILLE RESIDENTIAL NEIGHBORHOOD RN WITH PLANNED DEVELOPMENT PD OVERLAY



**LEGEND**

PROJECT LIMITS	-----
SUBDISTRICT LINE	-----

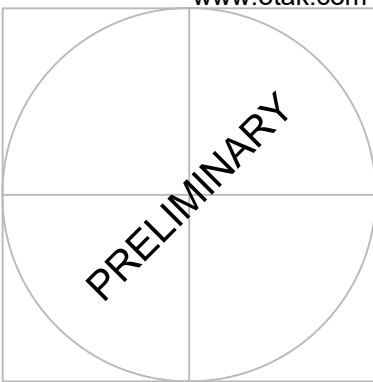
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REVISIONS

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DRAWN BY	CHECKED BY
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FEBRUARY 18, 2022	
DATE	
20141	
PROJECT NUMBER	

**P7.00**

Plotted: Feb. 14, 2022 - 3:35pm. Health.buisman... L:\Project\201000\20141\CADD\DWG\Frog Pond - Oaks\20141P700.dwg - Layout Name: P7.00



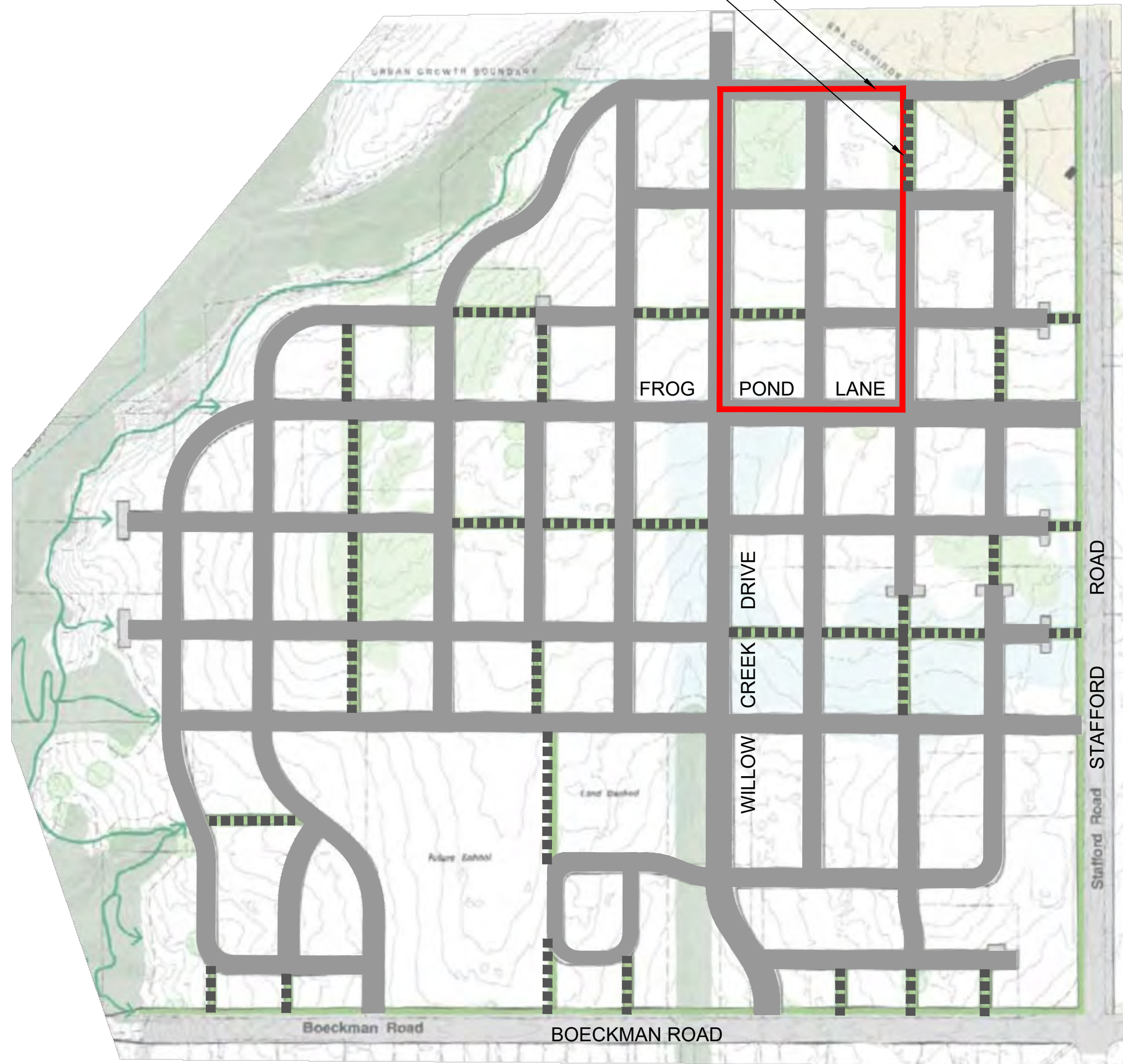
PROPOSED CIRCULATION AND CONNECTIVITY

FROG POND OAKS  
41 DETACHED SINGLE FAMILY LOTS  
CITY OF WILSONVILLE, OREGON

#	DATE	DESCRIPTION

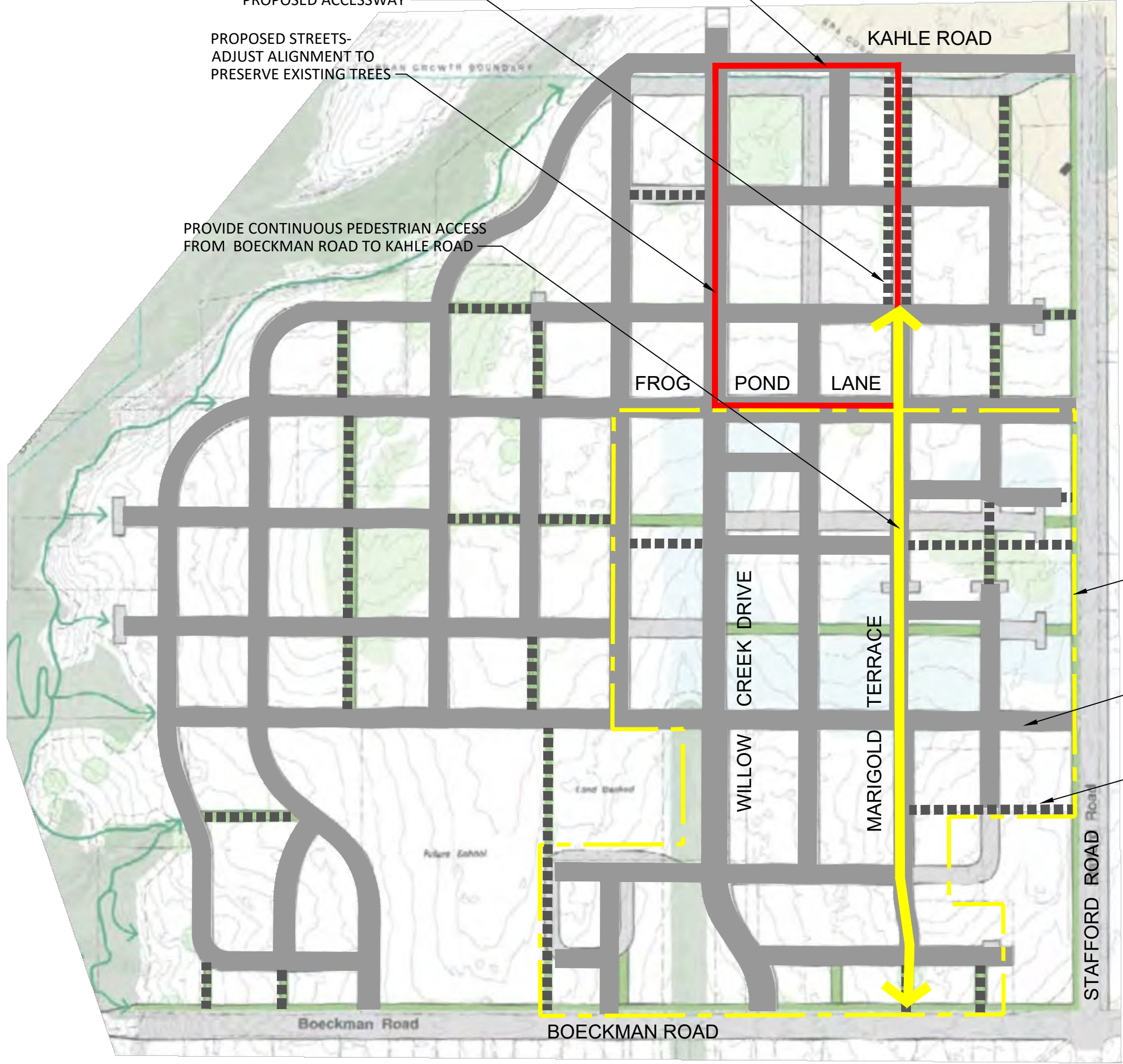
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OTAK CAD DRAWN BY KJB  
CHECKED BY  
LAND USE SUBMITTAL STATUS  
FEBRUARY 18, 2022 DATE  
20141 PROJECT NUMBER  
**P8.00**  
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STREETS AS PROPOSED BY FROG POND WEST PLAN  
ACCESSWAYS AS PROPOSED BY FROG POND WEST PLAN



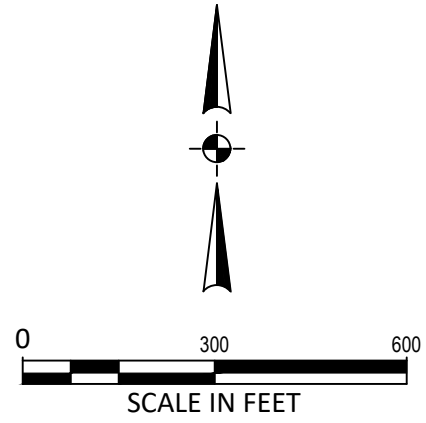
STREET DEMONSTRATION PLAN  
PER FROG POND WEST MASTER PLAN

PROPOSED PARTIAL ACCESSWAY-COMBINE WITH ADJACENT PROPOSED ACCESSWAY  
PROPOSED STREETS-ADJUST ALIGNMENT TO PRESERVE EXISTING TREES  
PROJECT LIMITS  
PROVIDE CONTINUOUS PEDESTRIAN ACCESS FROM BOECKMAN ROAD TO KAHLE ROAD

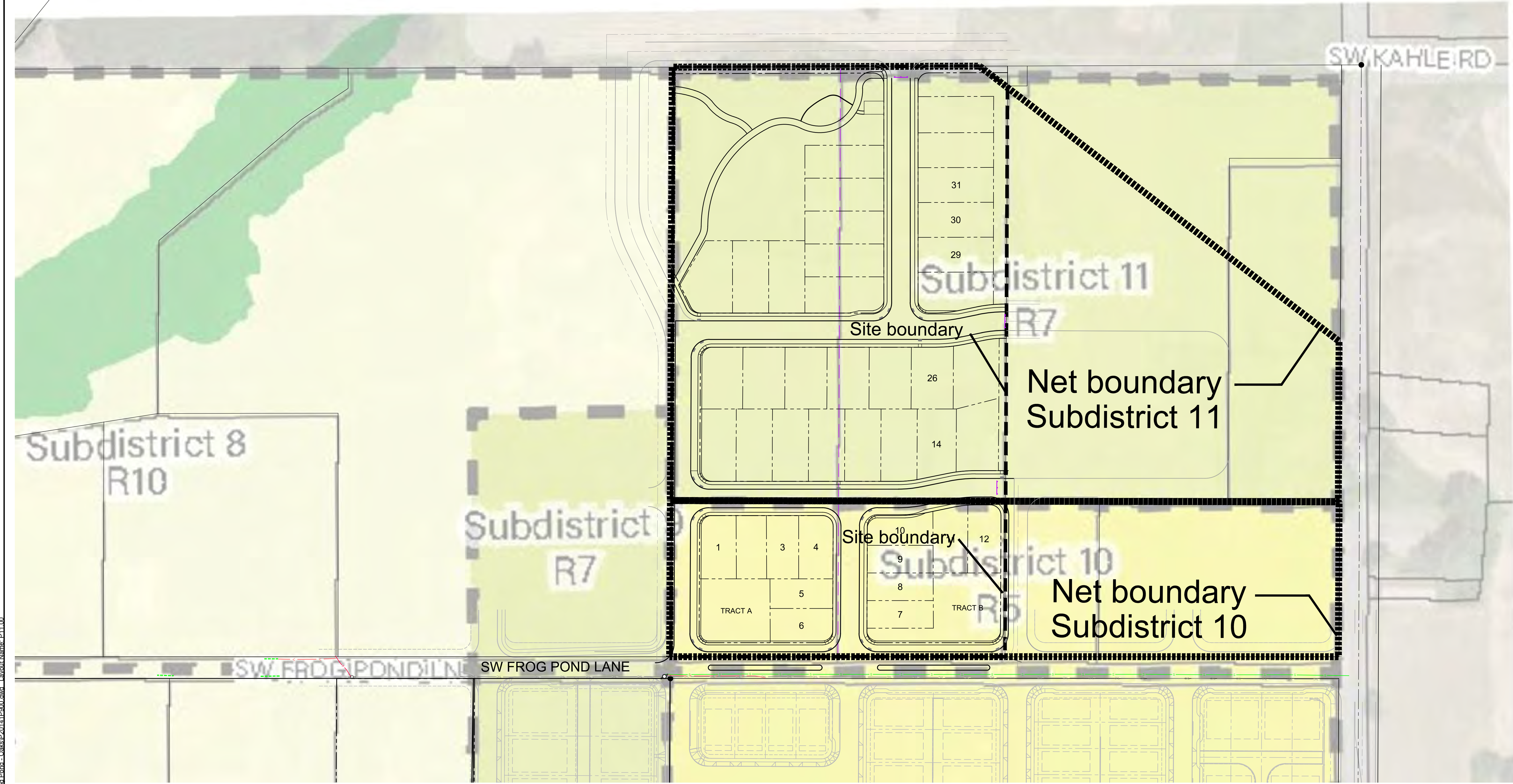
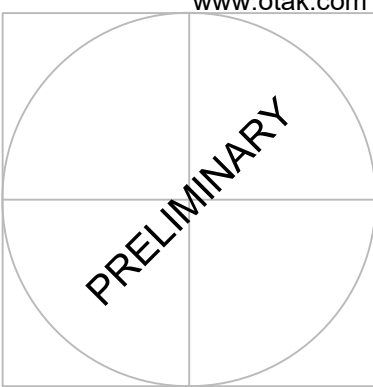


PROPOSED CIRCULATION AND CONNECTIVITY PLAN

PREVIOUS DEVELOPMENT BOUNDARY  
APPROVED STREETS  
APPROVED ACCESSWAYS



Plotted: Feb. 14, 2022 - 3:35pm. Health: busman... L:\Project\20100\20141\CADD\CADD\WellEros\Front - Oaks\20141\F800.dwg - Layout Name: F8.00



**FROG POND OAKS**  
41 DETACHED SINGLE FAMILY LOTS  
CITY OF WILSONVILLE, OREGON

**SUBDISTRICTS AND DENSITY**

TITLE	#	DATE	DESCRIPTION

REVISIONS	
NAV088	DATUM
OTAK CAD	KJB
DRAWN BY	CHECKED BY
LAND USE SUBMITTAL STATUS	
FEBRUARY 18, 2022	DATE
20141	PROJECT NUMBER

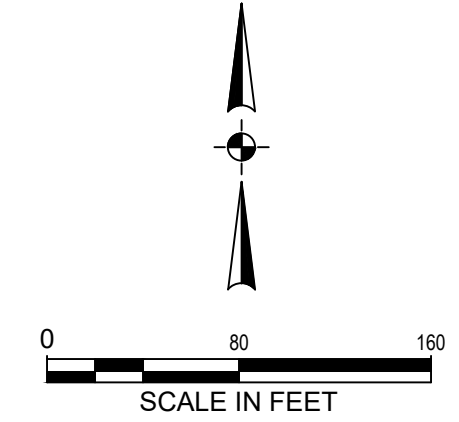
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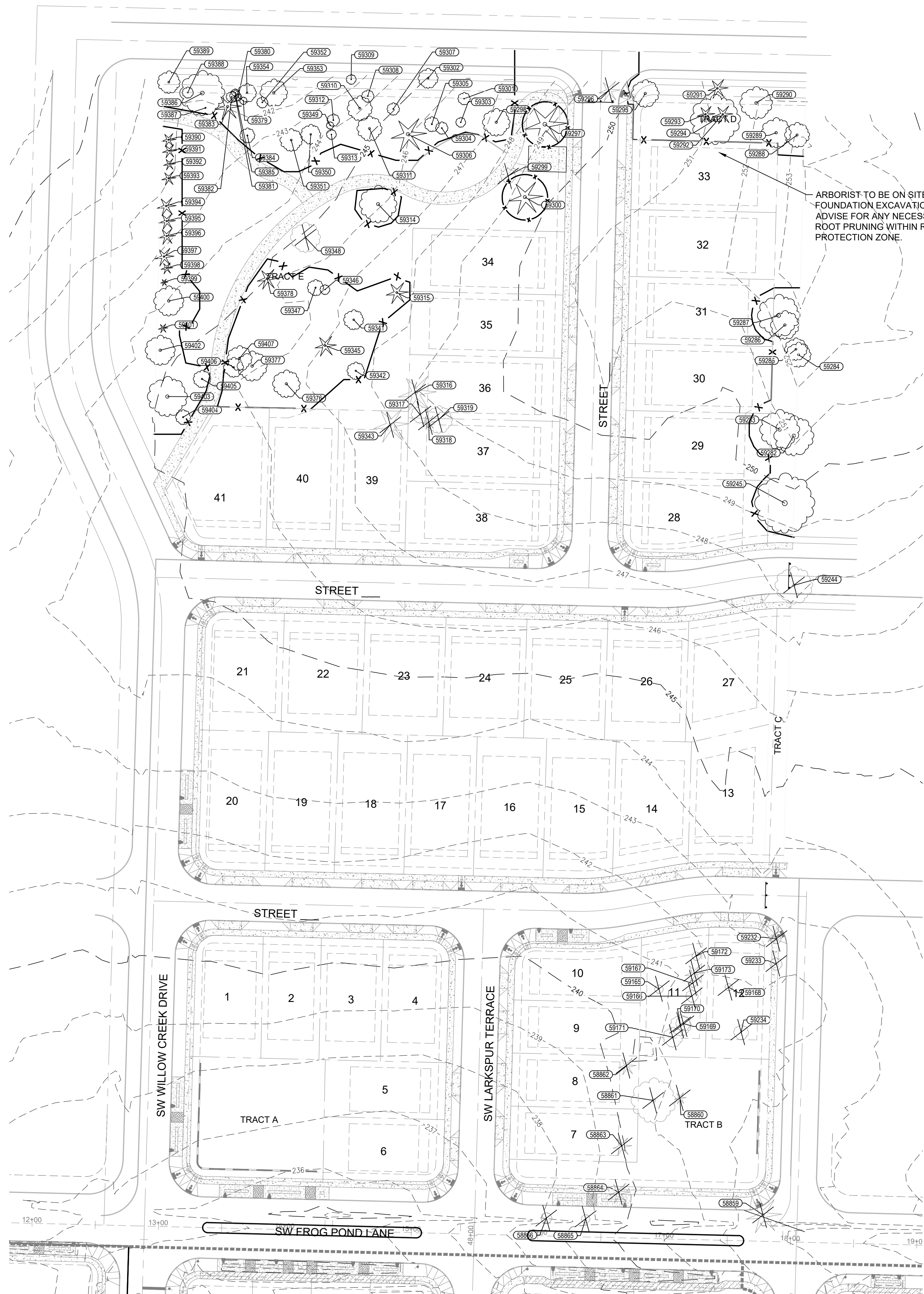
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**Frog Pond Oaks**  
Density Calculations

Subdistrict	Net Subdistrict Area (sf)	Net Subdistrict Area (ac)	Proposed Site area (sf)	Proposed Site area (ac)	Percentage of Subdistrict	Minimum Units Allowed in Subdistrict	Maximum Units Allowed in Subdistrict	Minimum Units Allowed on Site	Maximum Units Allowed on Site	Proposed Lots
10	239,637	5.50	120,353	2.76	50.22%	30	38	15	19	12
11	554,964	12.74	334,573	7.68	60.29%	46	58	28	35	29
			454,926	10.44						



Plotted: Feb. 18, 2022 - 11:14am. save.dixon L:\Project\2010020141\CADD\DWG\Frog Pond\_Oaks\P20141P900.dwg Layout Name: P11.00



*This Detail Drawing may 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.*

DRIP LINE

6"

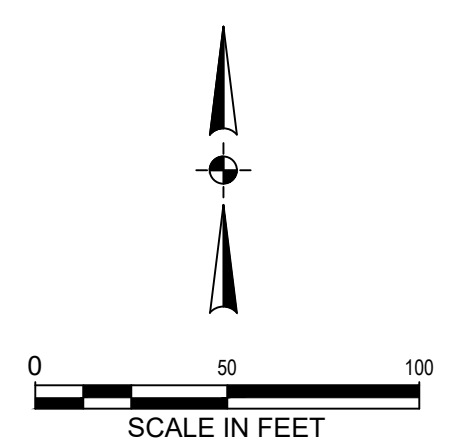
NOTES:  
1. FENCE SHALL BE 6" IN HEIGHT AND SET AT TREE DRIP LINE.  
2. FENCE MATERIALS SHALL CONSIST OF 2" MESH CHAIN LINKS SECURED TO A MINIMUM 1 1/2" DIA. STEEL OR ALUMINUM LINE POSTS.  
3. POSTS SHALL BE SET TO A DEPTH OF NO LESS THAN 2 FEET IN NATIVE SOIL.  
4. FENCE SHALL REMAIN IN PLACE UNTIL THE COMPLETION OF CONSTRUCTION ACTIVITIES. MOVEMENT OR REMOVAL OF FENCE REQUIRES APPROVAL BY CITY'S AUTHORIZED REPRESENTATIVE.

Tree Protection Fencing			CITY OF WILSONVILLE PUBLIC WORKS STANDARDS
DRAWING NUMBER: R-1155	DRAWN BY: GCF	SCALE: N.T.S.	
FILE NAME: R-1155.dwg	APPROVED BY: MAS	DATE: 11/01/03	

**TREE PLAN LEGEND**

SYMBOL	QTY	DESCRIPTION
	28	EXISTING TREES TO BE REMOVED
	77	EXISTING TREES TO REMAIN
	2,029 LF	TREE PROTECTION FENCING

- NOTES:  
1. SEE TREE TABLES SHEET L1.10. ACTION ON TREE TABLES SUPERCEDES THIS SHEET.  
2. TREES TO REMAIN TO HAVE TREE PROTECTION FENCING INSTALLED PER CITY OF WILSONVILLE STANDARD DRAWING ON THIS SHEET.  
3. NO MATERIAL STORAGE OR DUMPING OF ANY KIND SHALL OCCUR WITHIN THE DRIP LINE OF TREE.



Plotted: Feb 14, 2022 - 4:25am gabriel.kruse L:\Projects\201001201411\CADD\DWG\Frog\_Pond\_Oaks\IP201411.100.dwg Layout Name: L1.00

TITLE		
#	DATE	DESCRIPTION

REVISIONS

NAVD88  
DATUM

OTAK CAD KJB  
DRAWN BY CHECKED BY

LAND USE SUBMITTAL  
STATUS

FEBRUARY 18, 2022  
DATE

20141  
PROJECT NUMBER

**L1.00**

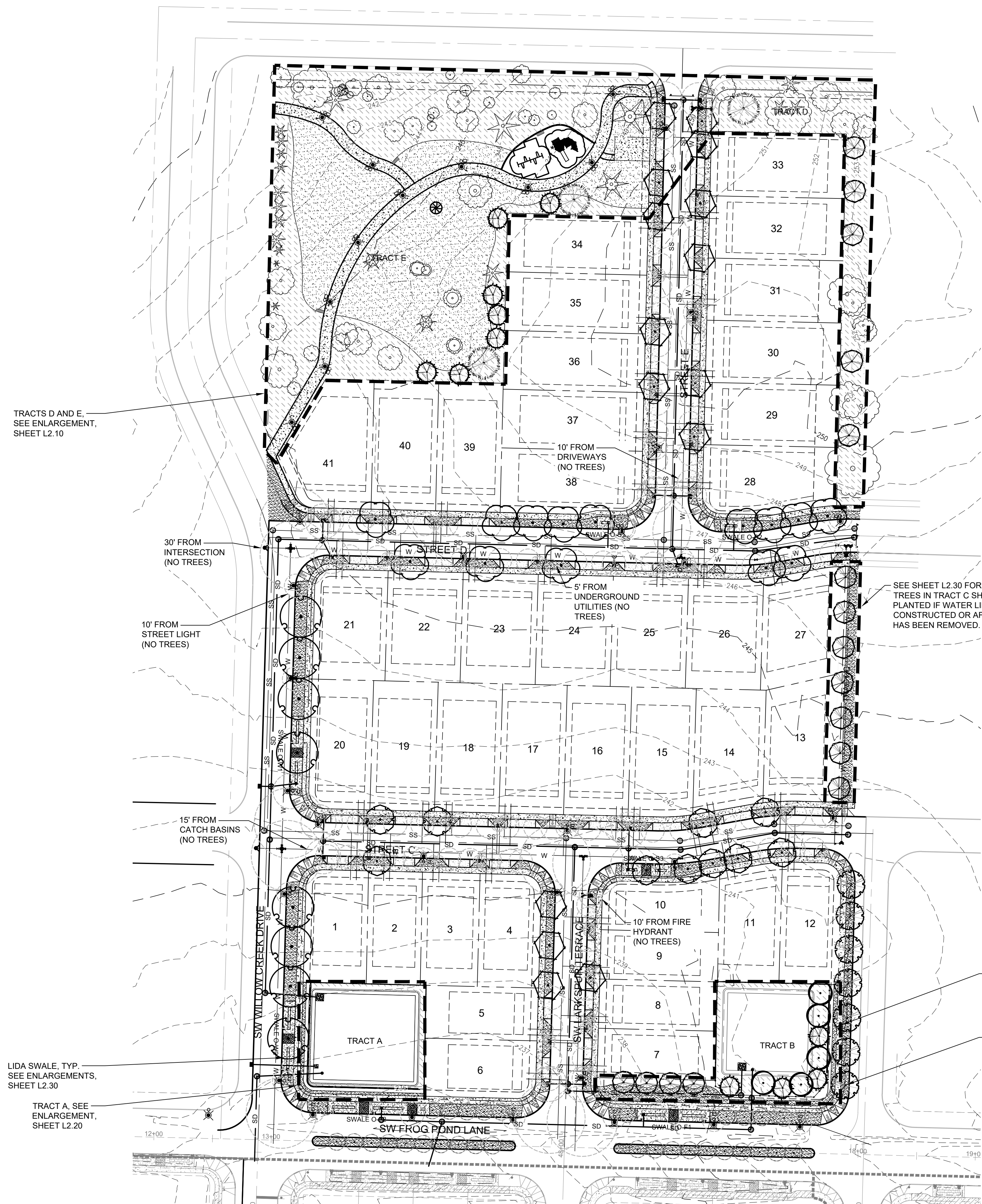
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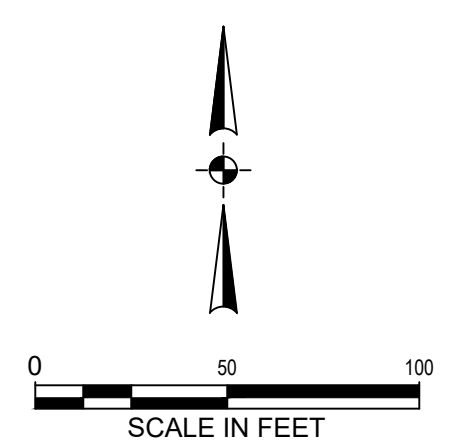


**FROG POND OAKS**  
 41 DETACHED SINGLE FAMILY LOTS  
 CITY OF WILSONVILLE, OREGON  
**OVERALL LANDSCAPE PLAN**



PLANT SCHEDULE STREET TREES

TREES	QTY	BOTANICAL / COMMON NAME	CONT	CAL
	7	CLADRASTIS KENTUCKEA / AMERICAN YELLOWWOOD NEIGHBORHOOD STREET TREE MODERATE WATER USAGE	B&B	2'
	15	GLEDTISIA TRIACANTHOS 'NERMIS' 'SKYCOLE' TM / SKYLINE THORNLESS HONEY LOCUST NEIGHBORHOOD STREET TREE MODERATE WATER USAGE	B&B	2'
	33	LIRIODENDRON TULIPIFERA 'FASTIGIATUM' / TULIP TREE NEIGHBORHOOD STREET TREE MODERATE WATER USAGE	B&B	2'
	10	PISTACIA CHINENSIS / CHINESE PISTACHE PRIMARY STREET TREE MODERATE WATER USAGE	B&B	2'
	8	QUERCUS RUBRA / RED OAK NEIGHBORHOOD STREET TREE MODERATE WATER USAGE	B&B	2'
	14	ULMUS X 'MORTON ACCOLADE' TM / ELM PRIMARY STREET TREE MODERATE WATER USAGE	B&B	2'
GROUND COVERS	QTY	BOTANICAL / COMMON NAME	CONT	
	18,810 SF	TURF SEED DIAMOND GREEN - SUNMARK SEEDS / EXTREME LOW MAINTENANCE TURF	SEED	



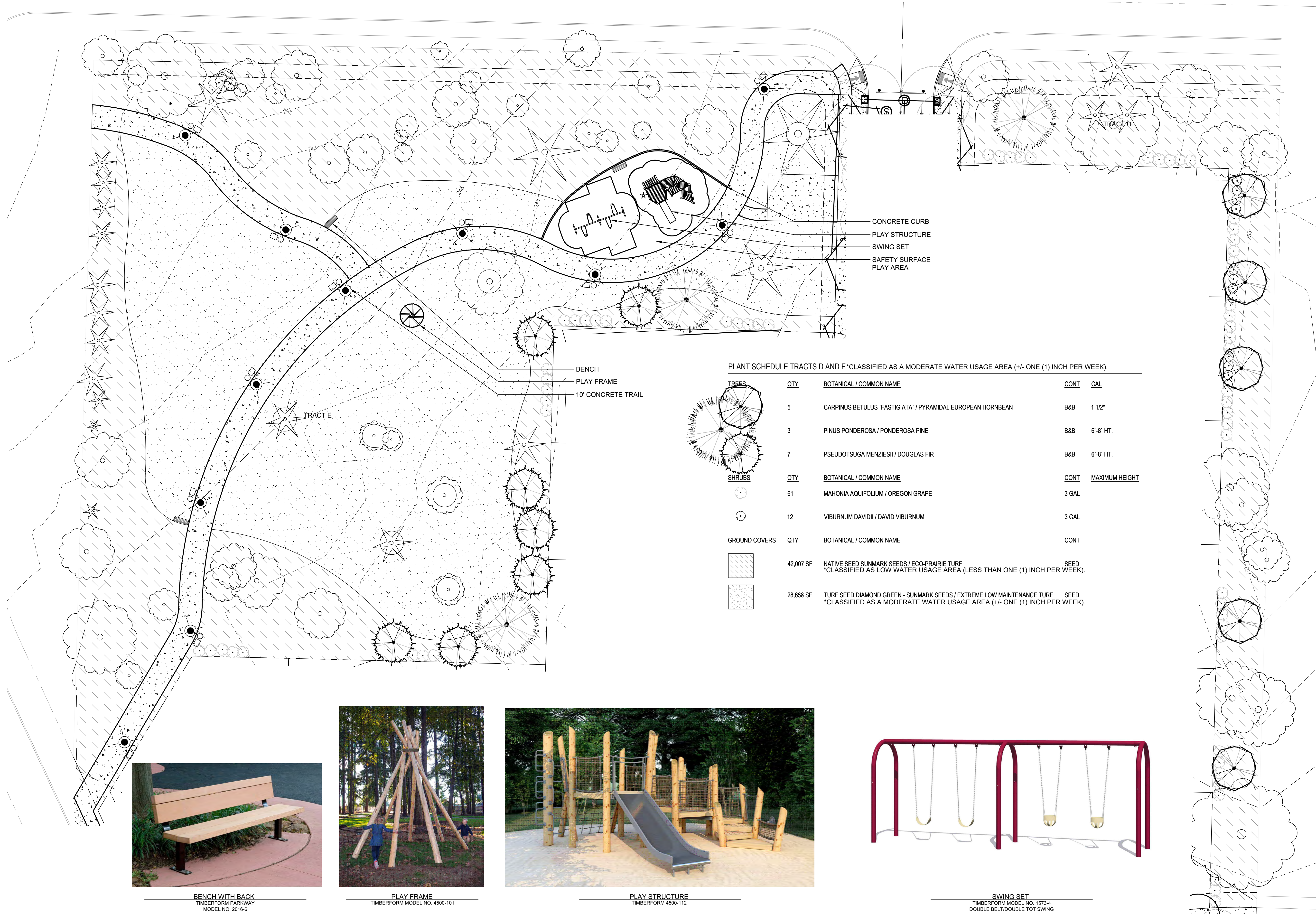
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TITLE		
#	DATE	DESCRIPTION

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 DRAWN BY CHECKED BY  
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 FEBRUARY 18, 2022  
 DATE  
 20141  
 PROJECT NUMBER  
**L2.00**  
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CONCRETE CURB  
PLAY STRUCTURE  
SWING SET  
SAFETY SURFACE  
PLAY AREA

BENCH  
PLAY FRAME  
10' CONCRETE TRAIL

PLANT SCHEDULE TRACTS D AND E\*CLASSIFIED AS A MODERATE WATER USAGE AREA (+/- ONE (1) INCH PER WEEK).

TREES	QTY	BOTANICAL / COMMON NAME	CONT	CAL
	5	CARPINUS BETULUS 'FASTIGIATA' / PYRAMIDAL EUROPEAN HORNBEAN	B&B	1 1/2"
	3	PINUS PONDEROSA / PONDEROSA PINE	B&B	6'-8' HT.
	7	PSEUDOTSUGA MENZIESII / DOUGLAS FIR	B&B	6'-8' HT.
SHRUBS	QTY	BOTANICAL / COMMON NAME	CONT	MAXIMUM HEIGHT
	61	MAHONIA AQUIFOLIUM / OREGON GRAPE	3 GAL	
	12	VIBURNUM DAVIDII / DAVID VIBURNUM	3 GAL	
GROUND COVERS	QTY	BOTANICAL / COMMON NAME	CONT	
	42,007 SF	NATIVE SEED SUNMARK SEEDS / ECO-PRAIRIE TURF *CLASSIFIED AS LOW WATER USAGE AREA (LESS THAN ONE (1) INCH PER WEEK).	SEED	
	28,698 SF	TURF SEED DIAMOND GREEN - SUNMARK SEEDS / EXTREME LOW MAINTENANCE TURF *CLASSIFIED AS A MODERATE WATER USAGE AREA (+/- ONE (1) INCH PER WEEK).	SEED	



BENCH WITH BACK  
TIMBERFORM PARKWAY  
MODEL NO. 2016-6



PLAY FRAME  
TIMBERFORM MODEL NO. 4500-101



PLAY STRUCTURE  
TIMBERFORM 4500-112



SWING SET  
TIMBERFORM MODEL NO. 1573-4  
DOUBLE BELT/DOUBLE TOT SWING

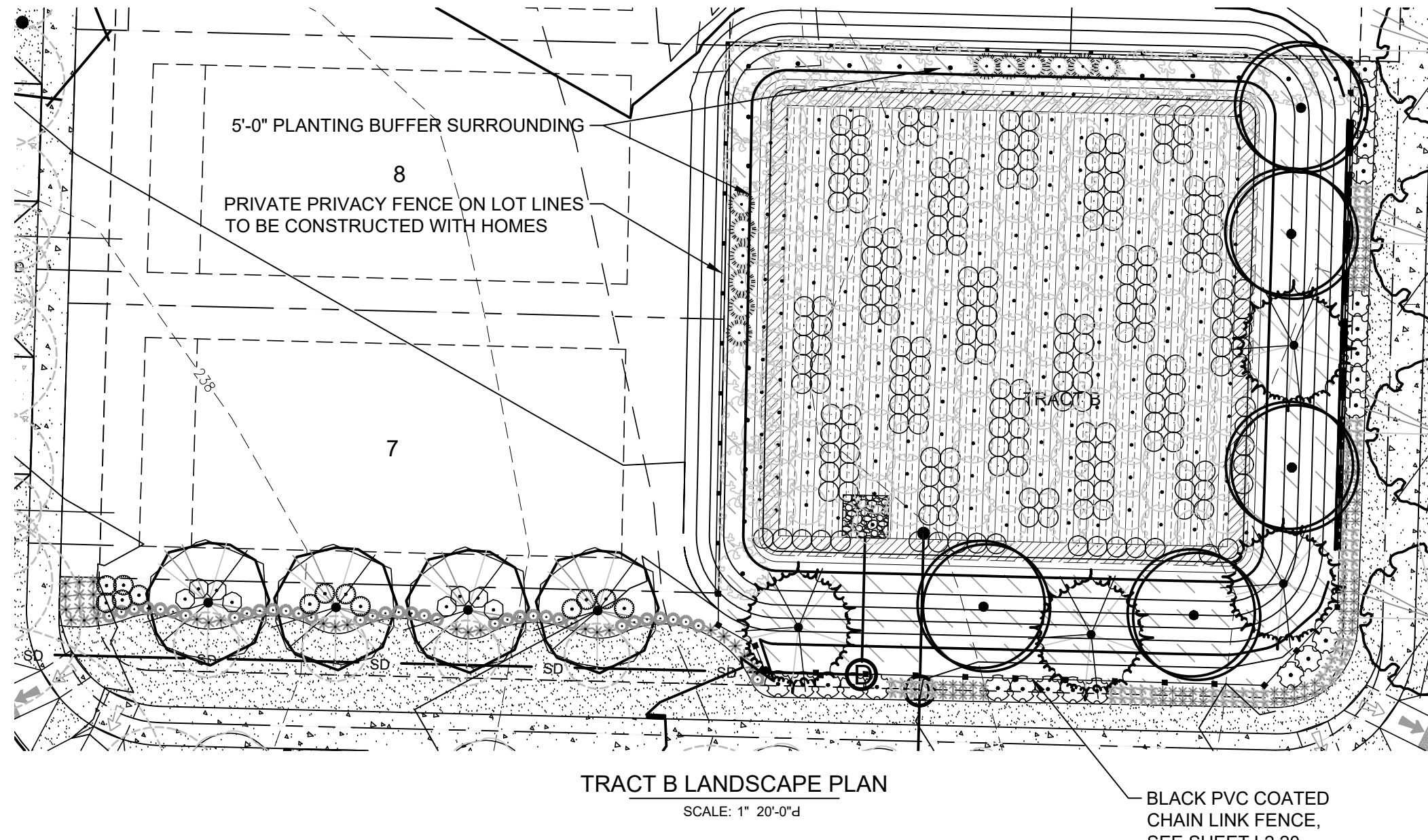
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REVISIONS

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LAND USE SUBMITTAL STATUS			
FEBRUARY 18, 2022			
DATE			
20141			
PROJECT NUMBER			

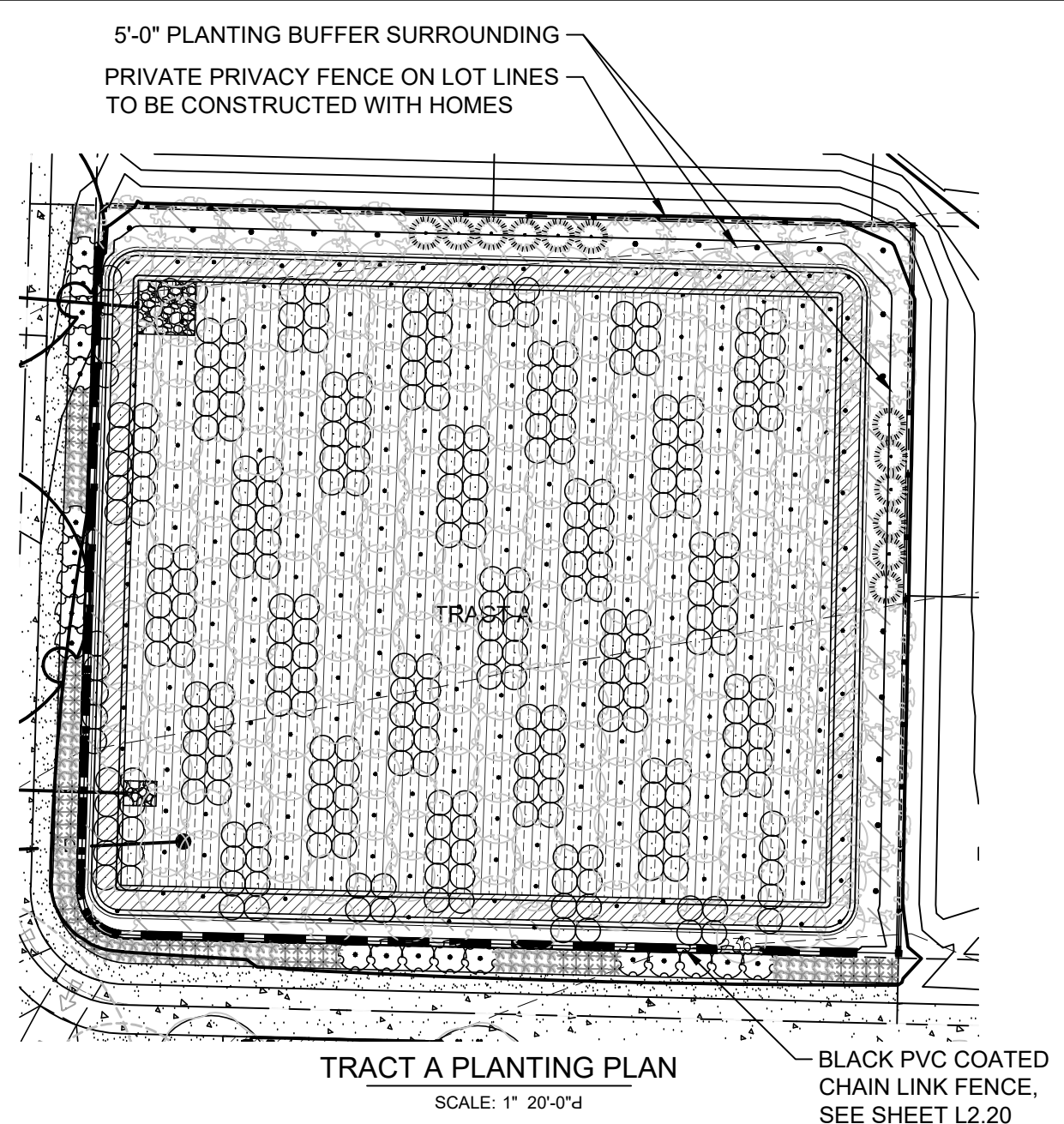
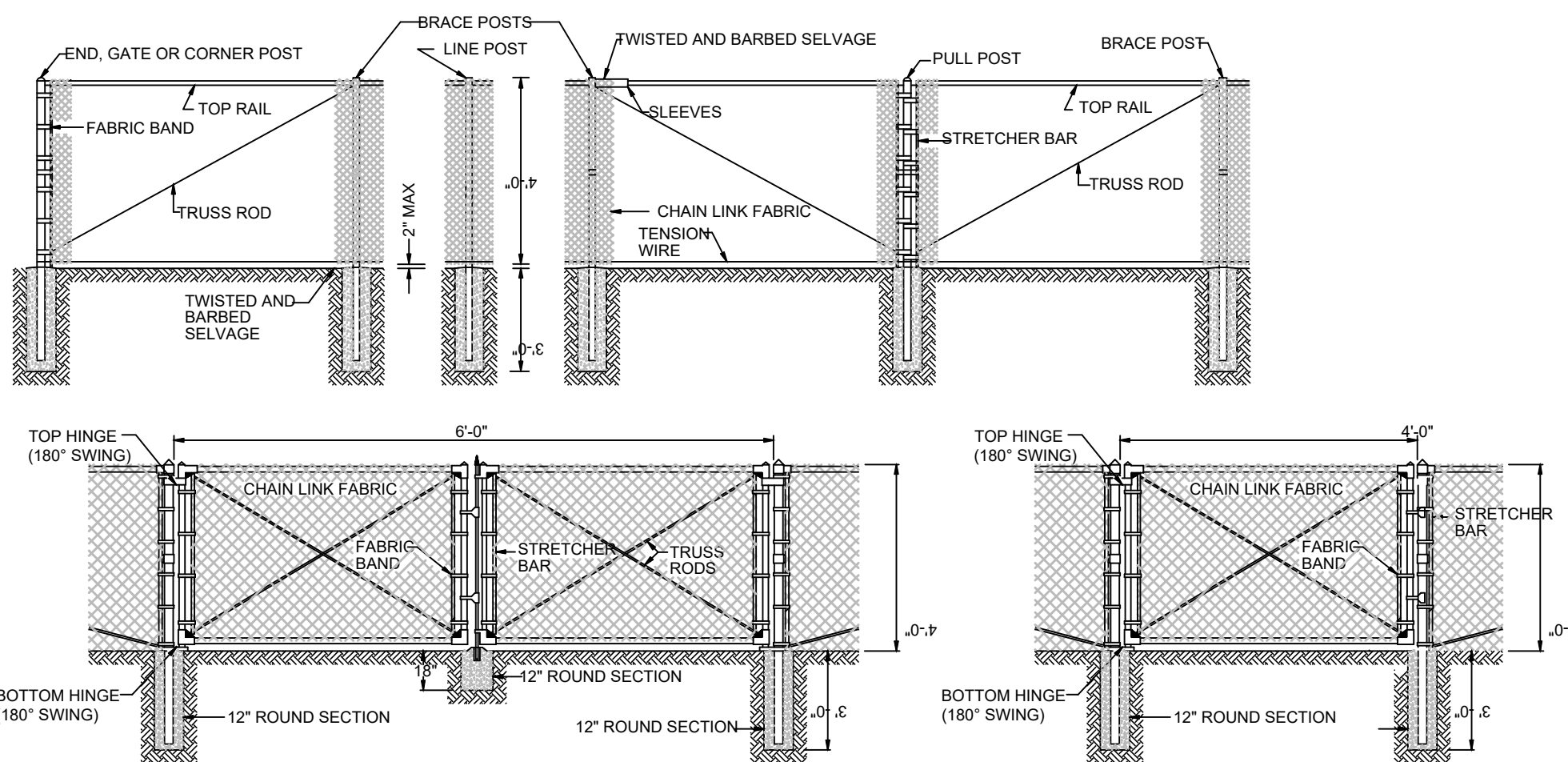
L2.10





MEMBER	NOMINAL DIA (N)	MATERIAL
BRACE RAIL	1.660	GALV TUBULAR STL
GATE FRAME	2.00	GALV TUBULAR STL
LINE POSTS	2.375	GALV TUBULAR STL
END & CORNER POST	2.875	GALV TUBULAR STL
CHAIN LINK FABRIC		9 GA. BLACK PVC COATING
	GATE OPENING (ft)	NOMINAL DIA (N)
	6' OR 4'	4
		MATERIAL
		GALV TUBULAR STL

- NOTES:
1. ALL FITTINGS, FASTENERS, & AND FABRIC TIES SHALL BE HOT DIP GALV.
  2. CONC SHALL BE MIN 2500 PSI @ 28 DAYS.
  3. PROVIDE BRACE RAIL BETWEEN END POSTS AND LINE POSTS. LENGTHS AS REQ'D.
  4. PROVIDE GATE STOPS AND DROP RECEIVERS SET IN CONCRETE AT DOUBLE GATE.
  5. PROVIDE EXTENSION ARMS ON LINE, END AND CORNER POSTS & GATE POSTS AS REQ'D.
  6. ALL POSTS AND RAILS TO MATCH FENCE COLOR - BLACK PVC COATED.



PLANT SCHEDULE TRACT A BORDER \*CLASSIFIED AS A MODERATE WATER USAGE AREA (+/- ONE (1) INCH PER WEEK).

SHRUBS	QTY	BOTANICAL / COMMON NAME	CONT	
*	79	DESCHAMPSIA CESPITOSA / TUFTED HAIR GRASS	3 GAL	
*	73	HEMEROCALLIS X 'STELLA DE ORO' / STELLA DE ORO DAYLILY	3 GAL	
☼	20	ILEX CRENATA 'HELERII' / HELER JAPANESE HOLLY	3 GAL	
☼	12	TAXUS X MEDIA 'HICKSII' / HICKS YEW	3 GAL	
☼	17	VIBURNUM TINUS / ARROWWOOD	5 GAL	
GROUND COVERS	QTY	BOTANICAL / COMMON NAME	CONT	SPACING
☼	1,369 SF	NATIVE SEED SUNMARK SEEDS / ECO-PRAIRIE TURF *CLASSIFIED AS LOW WATER USAGE AREA (LESS THAN ONE (1) INCH PER WEEK).	SEED	
☼	482 SF	TURF SEED DIAMOND GREEN - SUNMARK SEEDS / EXTREME LOW MAINTENANCE TURF *CLASSIFIED AS A MODERATE WATER USAGE AREA (+/- ONE (1) INCH PER WEEK).	SEED	

PLANT SCHEDULE TRACT B \*CLASSIFIED AS A MODERATE WATER USAGE AREA (+/- ONE (1) INCH PER WEEK).

TREES	QTY	BOTANICAL / COMMON NAME	CONT	CAL
☼	5	ACER GRISEUM / PAPERBARK MAPLE	B&B	2"
☼	4	CARPINUS BETULUS 'FASTIGIATA' / PYRAMIDAL EUROPEAN HORNBEAN	B&B	1 1/2"
☼	4	PSEUDOTSUGA MENZIESII / DOUGLAS FIR	B&B	6'-8' HT.
SHRUBS	QTY	BOTANICAL / COMMON NAME	CONT	
☼	13	BUXUS MICROPHYLLA 'COMPACTA' / DWARF LITTLELEAF BOXWOOD	3 GAL	
*	66	DESCHAMPSIA CESPITOSA / TUFTED HAIR GRASS	3 GAL	
*	73	HEMEROCALLIS X 'STELLA DE ORO' / STELLA DE ORO DAYLILY	3 GAL	
☼	23	ILEX CRENATA 'HELERII' / HELER JAPANESE HOLLY	3 GAL	
☼	36	LIRIOPE GIGANTEA / GIANT LIRIOPE	1 GAL	
*	29	LIRIOPE MUSCARI 'SILVERY SUNPROOF' / SILVERY SUNPROOF BLUE LILYTURF	1 GAL	
☼	8	ROSA X 'FLOWER CARPET RED' / ROSE	3 GAL	
☼	12	TAXUS X MEDIA 'HICKSII' / HICKS YEW	3 GAL	
☼	17	VIBURNUM TINUS / ARROWWOOD	5 GAL	
GROUND COVERS	QTY	BOTANICAL / COMMON NAME	CONT	
☼	9,022 SF	NATIVE SEED SUNMARK SEEDS / ECO-PRAIRIE TURF *CLASSIFIED AS LOW WATER USAGE AREA (LESS THAN ONE (1) INCH PER WEEK).	SEED	
☼	2,046 SF	TURF SEED DIAMOND GREEN - SUNMARK SEEDS / EXTREME LOW MAINTENANCE TURF *CLASSIFIED AS A MODERATE WATER USAGE AREA (+/- ONE (1) INCH PER WEEK).	SEED	

TRACT B RAIN GARDEN PLANT QUANTITIES	
ZONE A	
HERBACEOUS	SHRUBS
REQUIRED HERBACEOUS 115 per 100sf	
Carex testacea	
Juncus patens	
Juncus ensifolius	
Scirpus microcarpus	
PROVIDED HERBACEOUS	
REQ'D SMALL SHRUBS (4/100 SF)	
Symphoricarpos albus	
Spiraea betulifolia	
Elymus glaucus	
Mahonia aquifolium	
TOTAL SMALL SHRUBS PROVIDED	
REQ'D LARGE SHRUBS (3/100 SF)	
Holodiscus discolor	
Ribes sanguineum	
Rosa nutkana	
Spiraea douglasii	
TOTAL LARGE SHRUBS PROVIDED	
5149	5921 1480 1480 1480 1481 5921 206 52 52 206 154 39 39 38 38 154

TRACT B RAIN GARDEN PLANT QUANTITIES		
ZONE B		
HERBACEOUS	GROUND COVER	TREES
REQUIRED HERBACEOUS 115 per 100sf X 0.5		
Carex testacea		
Juncus patens		
Juncus ensifolius		
Scirpus microcarpus		
TOTAL PROVIDED HERBACEOUS		
REQUIRED GROUND COVER 115 per 100sf X 0.5		
Carex testacea		
Juncus patens		
Juncus ensifolius		
Scirpus microcarpus		
TOTAL PROVIDED HERBACEOUS		
REQ'D TREES (1/100 SF)		
Symphoricarpos albus		
Spiraea betulifolia		
Elymus glaucus		
Mahonia aquifolium		
TOTAL TREES PROVIDED		
902	519 130 130 130 129 519 130 130 130 129 515 9 2 2 2 3 10	

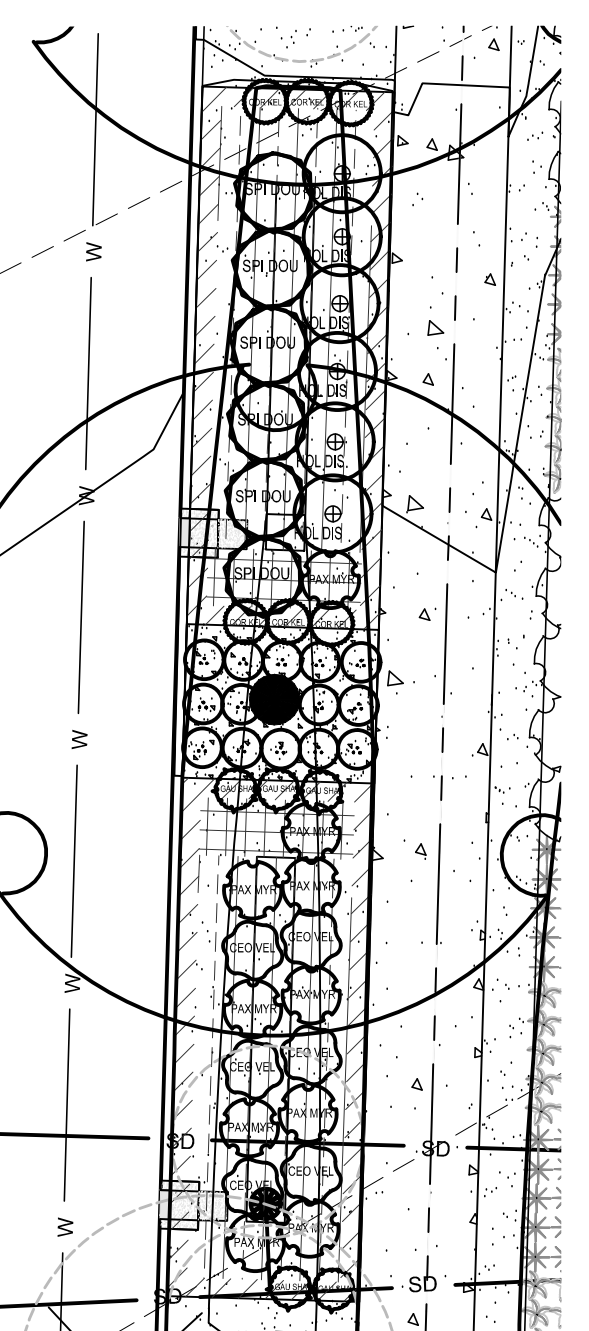
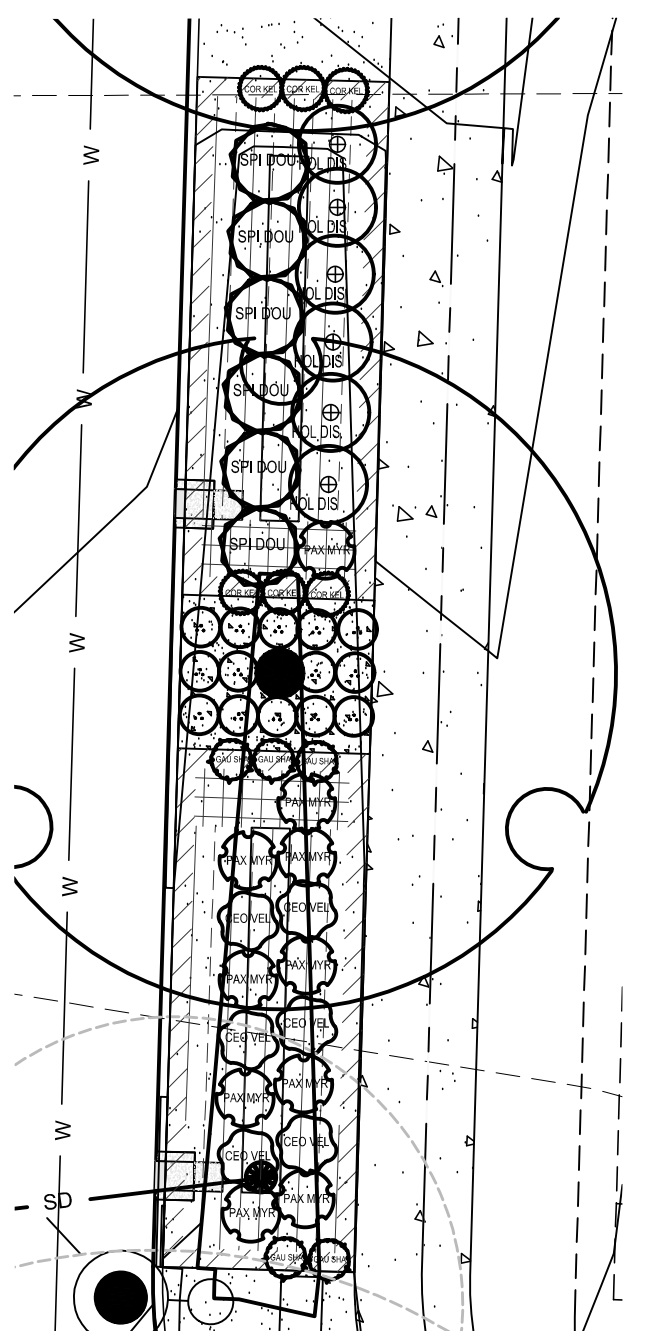
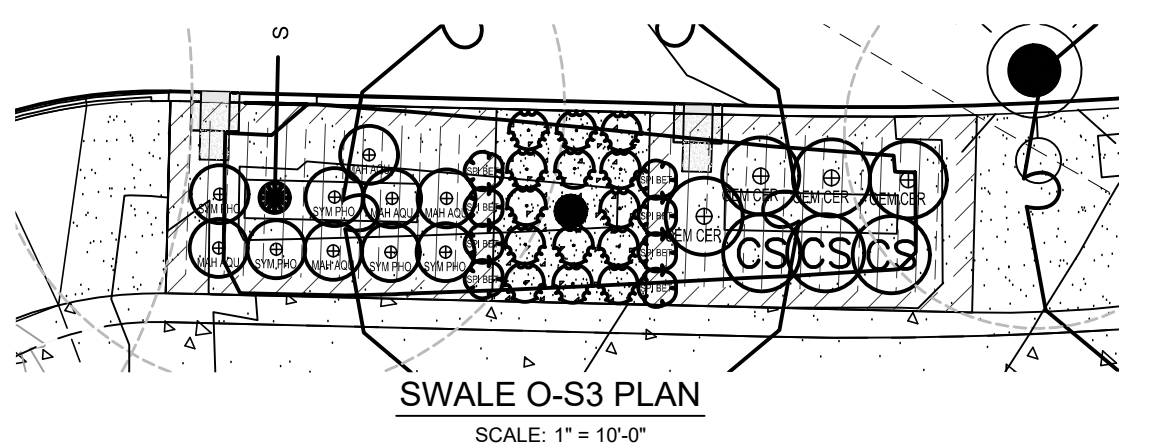
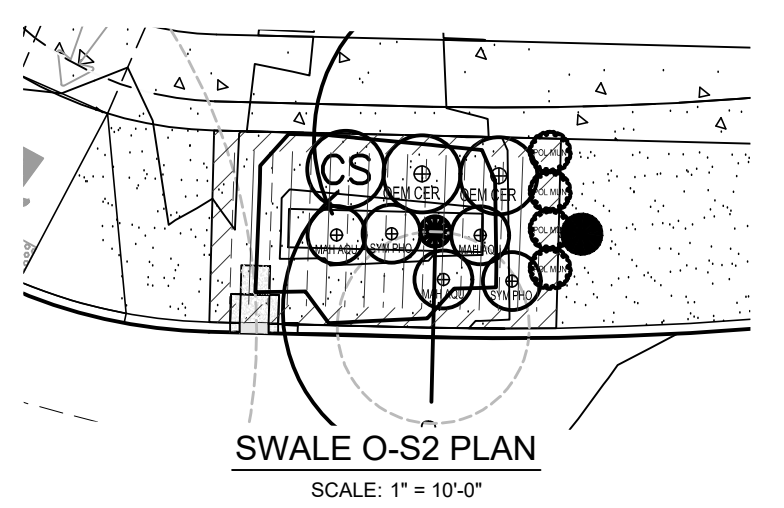
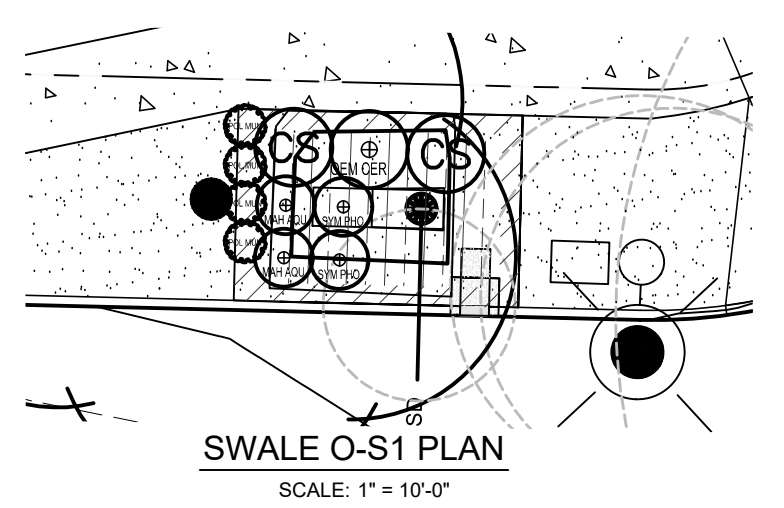
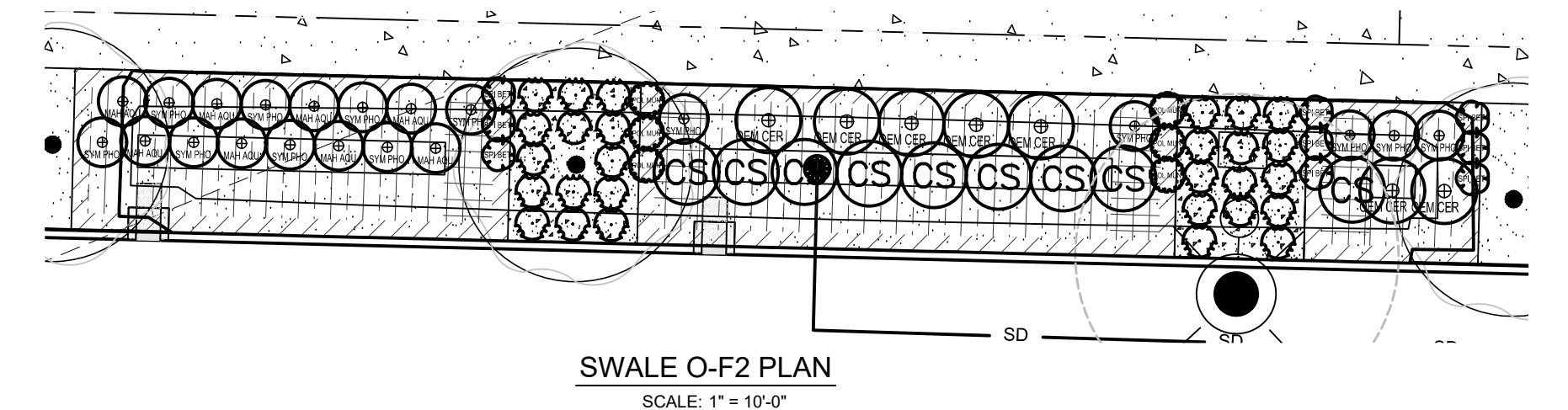
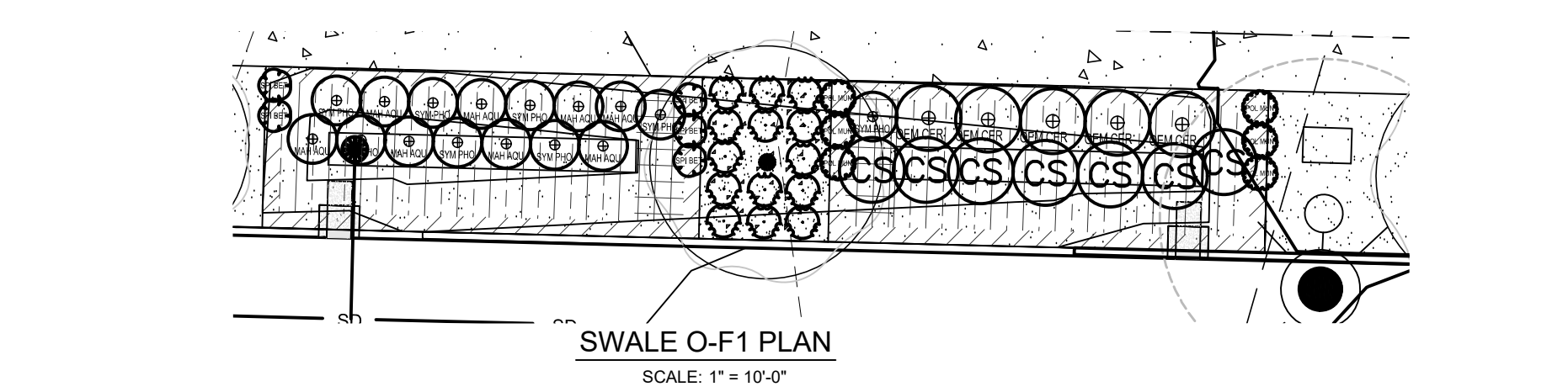
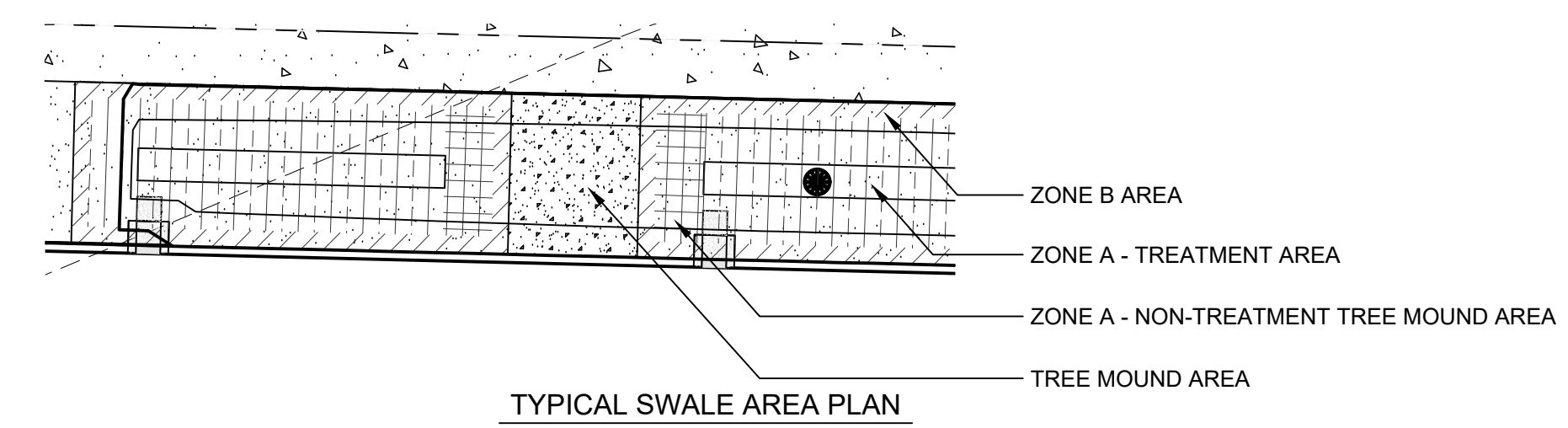
\*CLASSIFIED AS LOW WATER USAGE AREA (LESS THAN ONE (1) INCH PER WEEK).

TRACT A RAIN GARDEN PLANT QUANTITIES	
ZONE A	
HERBACEOUS	SHRUBS
REQUIRED HERBACEOUS 115 per 100sf	
Carex testacea	
Juncus patens	
Juncus ensifolius	
Scirpus microcarpus	
PROVIDED HERBACEOUS	
REQ'D SMALL SHRUBS (4/100 SF)	
Symphoricarpos albus	
Spiraea betulifolia	
Elymus glaucus	
Mahonia aquifolium	
TOTAL SMALL SHRUBS PROVIDED	
REQ'D LARGE SHRUBS (3/100 SF)	
Holodiscus discolor	
Ribes sanguineum	
Rosa nutkana	
Spiraea douglasii	
TOTAL LARGE SHRUBS PROVIDED	
7597	8737 2184 2184 2184 2185 8737 304 76 76 76 304 228 57 57 57 57 228

TRACT A RAIN GARDEN PLANT QUANTITIES		
ZONE B		
HERBACEOUS	GROUND COVER	TREES
REQUIRED HERBACEOUS 115 per 100sf X 0.5		
Carex testacea		
Juncus patens		
Juncus ensifolius		
Scirpus microcarpus		
TOTAL PROVIDED HERBACEOUS		
REQUIRED GROUND COVER 115 per 100sf X 0.5		
Carex testacea		
Juncus patens		
Juncus ensifolius		
Scirpus microcarpus		
TOTAL PROVIDED HERBACEOUS		
REQ'D TREES (1/100 SF)		
Symphoricarpos albus		
Spiraea betulifolia		
Elymus glaucus		
Mahonia aquifolium		
TOTAL TREES PROVIDED		
1072	617 154 154 155 617 11 3 3 3 2 11	

\*CLASSIFIED AS LOW WATER USAGE AREA (LESS THAN ONE (1) INCH PER WEEK).

- NOTES:
1. ALL LANDSCAPE AREAS SHALL BE WATERED BY A FULLY AUTOMATIC UNDERGROUND IRRIGATION SYSTEM, EXCEPT NATIVE GRASS PLANTING WHICH SHALL RECEIVE ESTABLISHMENT IRRIGATION.
  2. SEE SHEET L2.00 FOR STREET TREE PLANTING IN TREE MOUND.

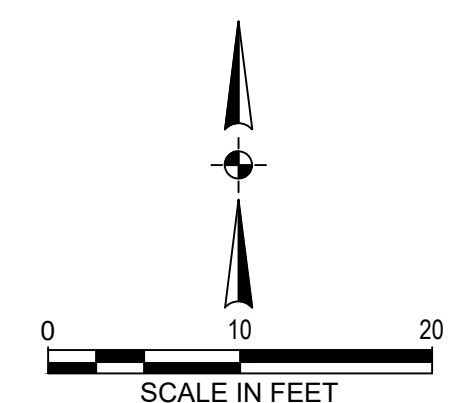


**SWALE AREA KEY**

SYMBOL	ZONE	DESCRIPTION
[Hatched Box]	ZONE A - TREATMENT AREA	HERBACEOUS/GROUNDCOVERS NOT SHOWN. PLANT IN QUANTITIES INDICATED ON SPREADSHEET THIS SHEET.
[Grid Box]	ZONE A - NON-TREATMENT TREE MOUND AREA	HERBACEOUS PLANTS INSTALLED AT SP#4 SIZE. GROUNDCOVER INSTALLED AT #1 CONT. SIZE
[Dotted Box]	ZONE B - FREEBOARD AREA	

**STREET TREE MOUND SHRUBS**

QTY	COMMON NAME / Botanical name	Size
28	GOLD NUGGET BARBERRY / <i>Barberis thunbergii</i> 'Gold Nugget'	#1 CONT.
56	STELLA DE ORO DAY LILY / <i>Heimerocallis</i> 'Stella de Oro'	#1 CONT.



**NORTH/SOUTH SWALE SHRUB LEGEND**

SYMBOL	QTY	COMMON NAME / Botanical name	Size	Spacing
[Small Circle]	10	SALAL / <i>Gaultheria shallon</i>	1 GAL.	1' o.c.
[Small Circle]	12	KELSEY DOGWOOD / <i>Cornus sericea</i> 'Kelsey'	1 GAL.	1' o.c.
[Small Circle]	20	OREGON BOXLEAF / <i>Paxistima myrsinites</i>	1 GAL.	1' o.c.
[Small Circle]	12	SNOWBRUSH / <i>Ceanothus velutinus</i>	1 GAL.	1' o.c.
[Small Circle]	12	DOUGLAS SPIRAEA / <i>Spiraea douglasii</i>	30" HT.	3' o.c.
[Small Circle]	12	WESTERN SERVICEBERRY / <i>Holodiscus discolor</i>	30" HT.	3' O.C.

**EASTWEST SWALE SHRUB LEGEND**

SYMBOL	QTY	COMMON NAME / Botanical name	Size	Spacing
[Small Circle]	22	BIRCHLEAF SPIRAEA / <i>Spiraea betulifolia</i>	1 GAL.	1' o.c.
[Small Circle]	20	SWORD FERN / <i>Polystichum minutum</i>	1 GAL.	1' o.c.
[Small Circle]	26	OREGON GRAPE HOLLY / <i>Mahonia aquifolium</i>	1 GAL.	1' o.c.
[Small Circle]	28	SNOWBERRY / <i>Symphoricarpos alba</i>	1 GAL.	1' o.c.
[Small Circle]	18	INDIAN PLUM / <i>Omleria cerasiformis</i>	30" HT.	3' o.c.
[Small Circle]	23	RED-TWIG BOXWOOD / <i>Cornus sericea</i>	30" HT.	3' o.c.

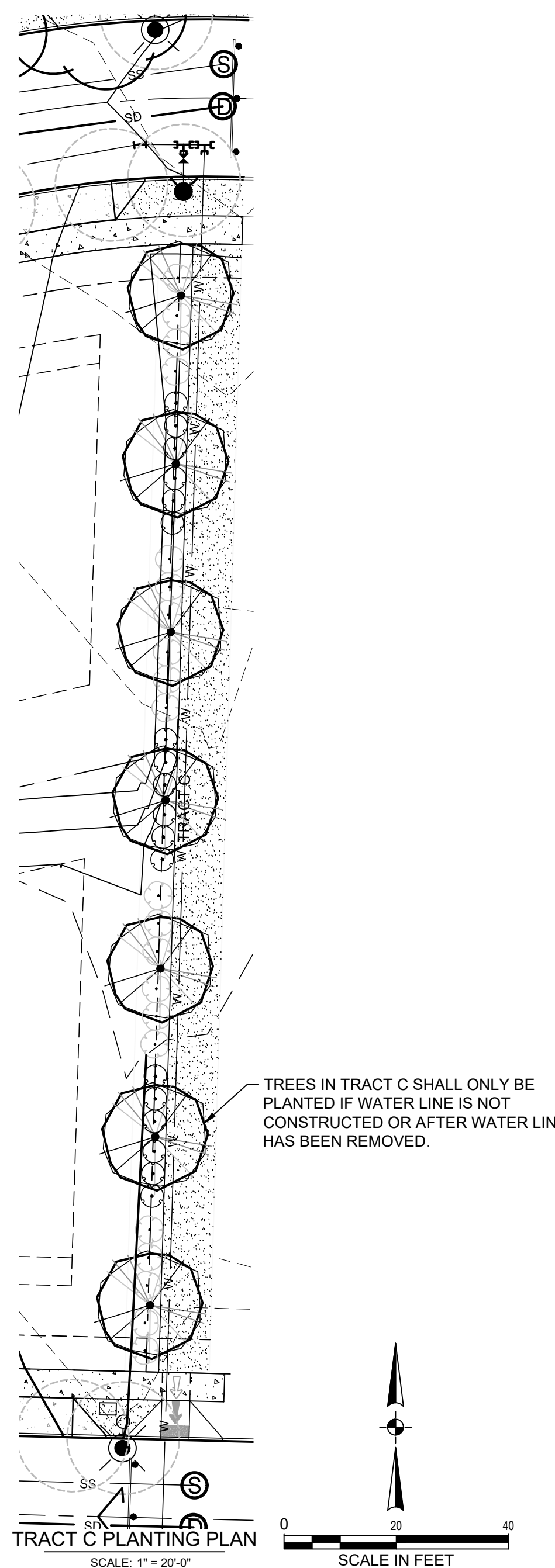
\*CLASSIFIED AS LOW WATER USAGE AREA (LESS THAN ONE (1) INCH PER WEEK).

**FROG POND OAKS VEGETATED SWALE PLANT QUANTITIES**

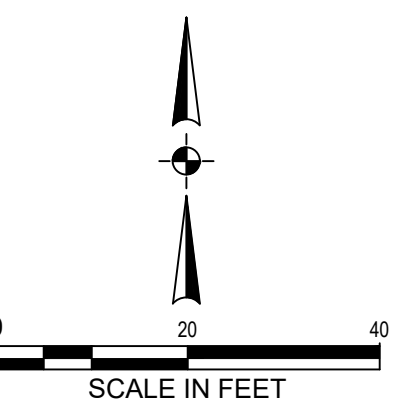
SWALE ID	STREET	ZONE A										ZONE B														
		TREATMENT AREA					NON-TREATMENT TREE MOUND AREA					SHRUBS	GROUND COVER													
		HERBACEOUS = TREATMENT AREA/2	GROUND COVER = TREATMENT AREA/2	SHRUBS	SHRUBS	HERBACEOUS = TREATMENT AREA/2	GROUND COVER = TREATMENT AREA/2	SHRUBS	SHRUBS	SHRUBS	SHRUBS	SHRUBS	GROUND COVER													
O-W1	SW Willow Creek	352	203	101	101	0	0	202	203	203	14	11	48	28	14	14	14	56	28	28	2	1	140	11	161	
O-W2	SW Willow Creek	360	207	104	104	0	0	208	207	207	14	11	48	28	14	14	14	56	28	28	2	1	142	11	163	
O-F1	FROG POND	352	203	101	101	0	0	202	203	203	14	11	48	28	14	14	14	56	28	28	2	1	140	11	161	
O-F2	FROG POND	424	244	0	0	122	122	244	244	244	17	13	96	55	0	0	28	28	56	55	4	3	190	15	219	
O-S1	FROG POND	103	59	0	0	30	30	60	59	59	4	3	0	0	0	0	0	0	0	0	0	0	0	46	4	53
O-S2	FROG POND	128	74	0	0	37	37	74	74	74	5	4	0	0	0	0	0	0	0	0	0	0	0	52	4	60
O-S3	FROG POND	240	138	0	0	69	69	138	138	138	10	7	0	0	0	0	0	0	0	0	0	0	100	8	115	
<b>TOTALS:</b>				<b>306</b>	<b>306</b>	<b>257</b>	<b>257</b>	<b>1,128</b>	<b>1,127</b>	<b>1,127</b>	<b>78</b>	<b>60</b>	<b>138</b>	<b>41</b>	<b>41</b>	<b>55</b>	<b>55</b>	<b>196</b>	<b>138</b>	<b>138</b>	<b>10</b>	<b>6</b>	<b>810</b>	<b>64</b>	<b>932</b>	

NOTES:  
1. ALL LANDSCAPE AREAS SHALL BE WATERED BY A FULLY AUTOMATIC UNDERGROUND IRRIGATION SYSTEM, EXCEPT NATIVE GRASS PLANTING WHICH SHALL RECEIVE ESTABLISHMENT IRRIGATION.  
2. SEE SHEET L2.00 FOR STREET TREE PLANTING IN TREE MOUND.

\*CLASSIFIED AS LOW WATER USAGE AREA (LESS THAN ONE (1) INCH PER WEEK).



TREES IN TRACT C SHALL ONLY BE PLANTED IF WATER LINE IS NOT CONSTRUCTED OR AFTER WATER LINE HAS BEEN REMOVED.



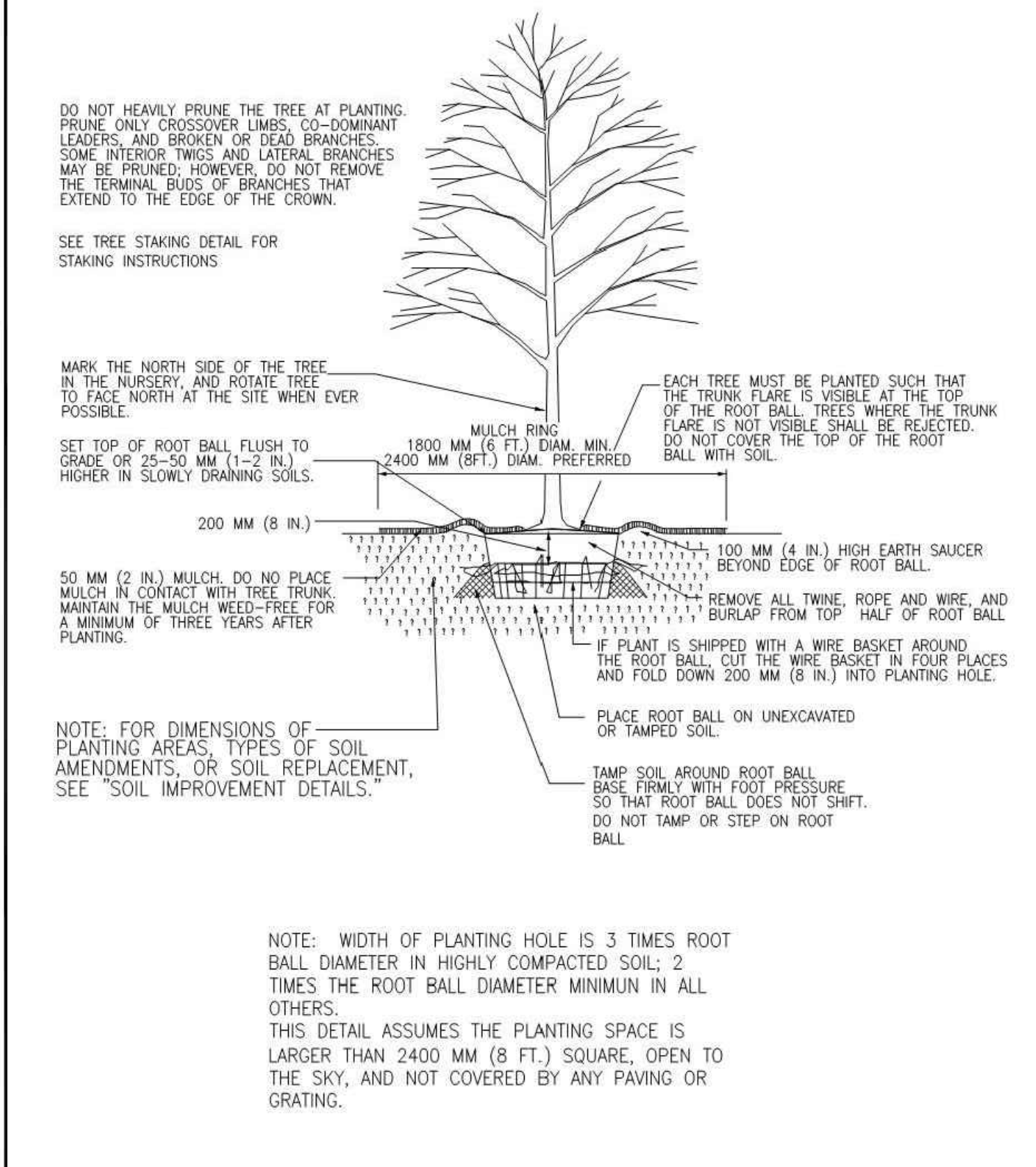
**GROUND COVERS**

QTY	DESCRIPTION	SPACING
1,369 SF	NATIVE SEED SUNMARK SEEDS / ECO-PRAIRIE TURF	SEED
482 SF	TURF SEED DIAMOND GREEN - SUNMARK SEEDS / EXTREME LOW MAINTENANCE TURF	SEED

**TREES**

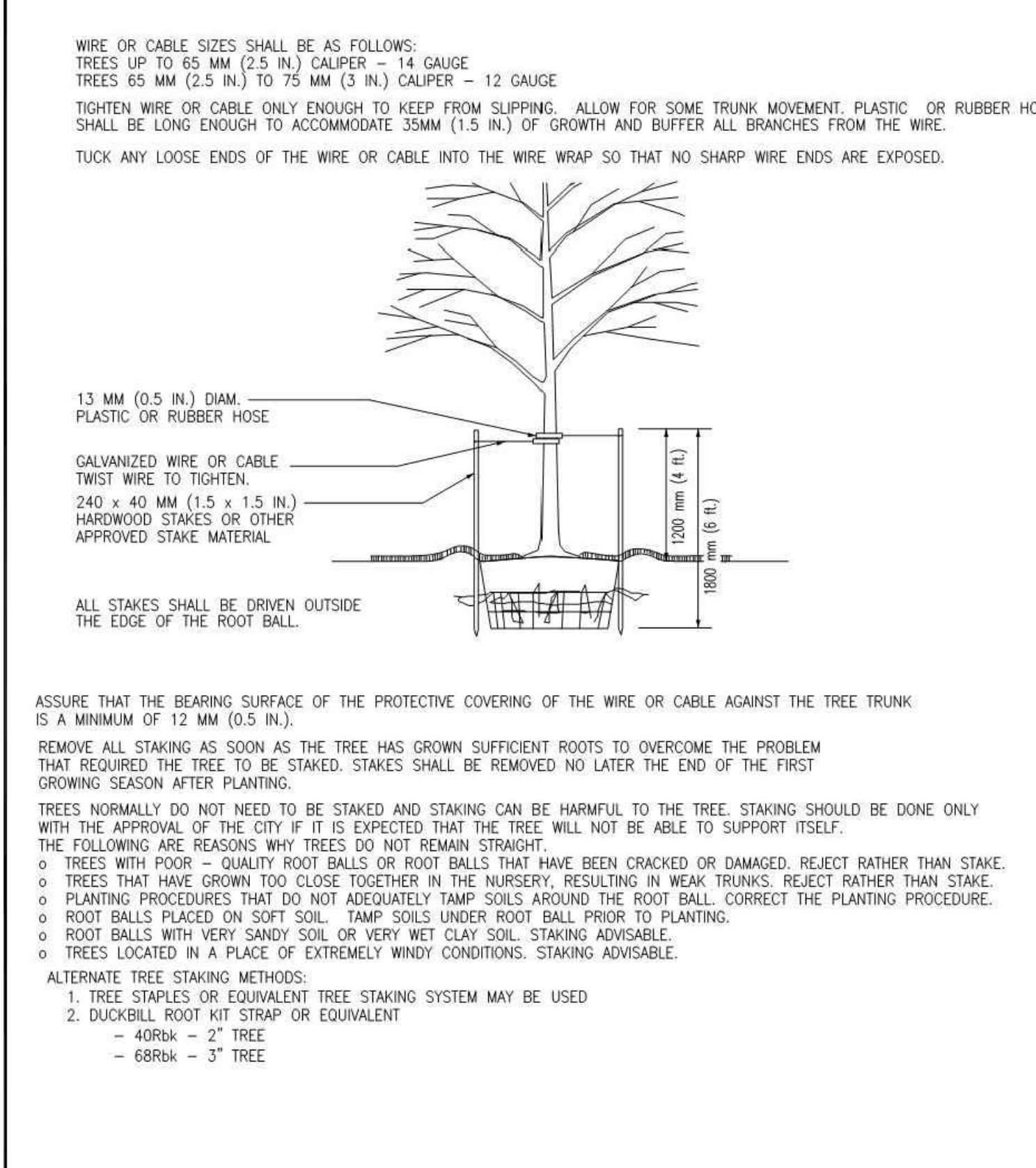
QTY	COMMON NAME / Botanical name	Size
12	TAXUS SP. / MODERATE WATER USAGE AREA (+/- ONE (1) INCH PER WEEK)	5 GAL.
17	VIBURNUM TINUS / ARROWWOOD	5 GAL.

This Detail Drawing may 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.



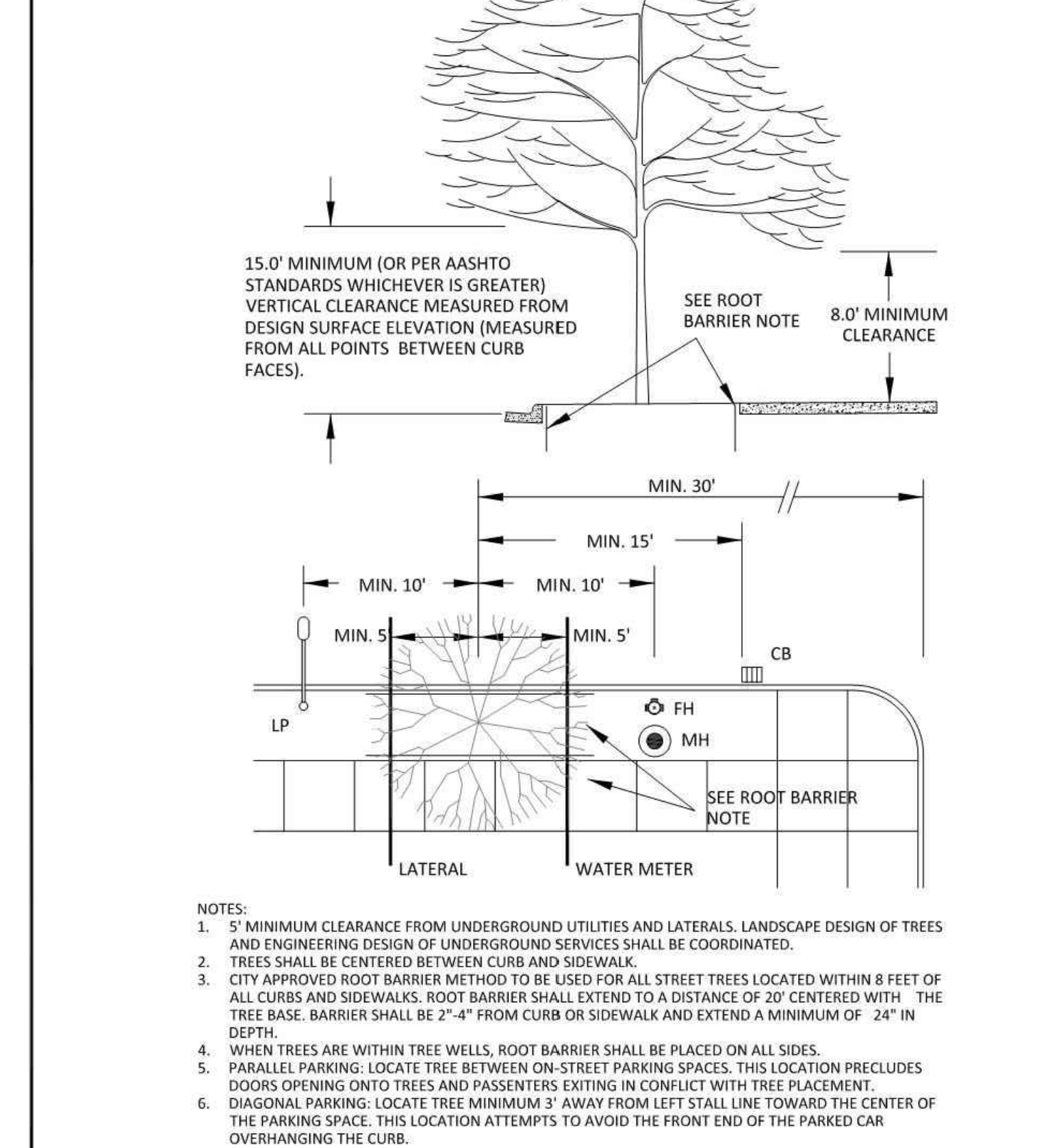
Tree Planting Detail - B & B Trees in all Soil Types			CITY OF WILSONVILLE PUBLIC WORKS STANDARDS
DRAWING NUMBER: P-5000	DRAWN BY: SJ	SCALE: N.T.S.	
FILE NAME: P-5000.dwg	APPROVED BY: SA	DATE: 3/22/06	

This Detail Drawing may 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.



Tree Staking Detail - Trees 75MM (3") Caliper or Less			CITY OF WILSONVILLE PUBLIC WORKS STANDARDS
DRAWING NUMBER: P-5005	DRAWN BY: SJ	SCALE: N.T.S.	
FILE NAME: P-5005.dwg	APPROVED BY: SA	DATE: 03/22/06	

This Detail Drawing may 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.



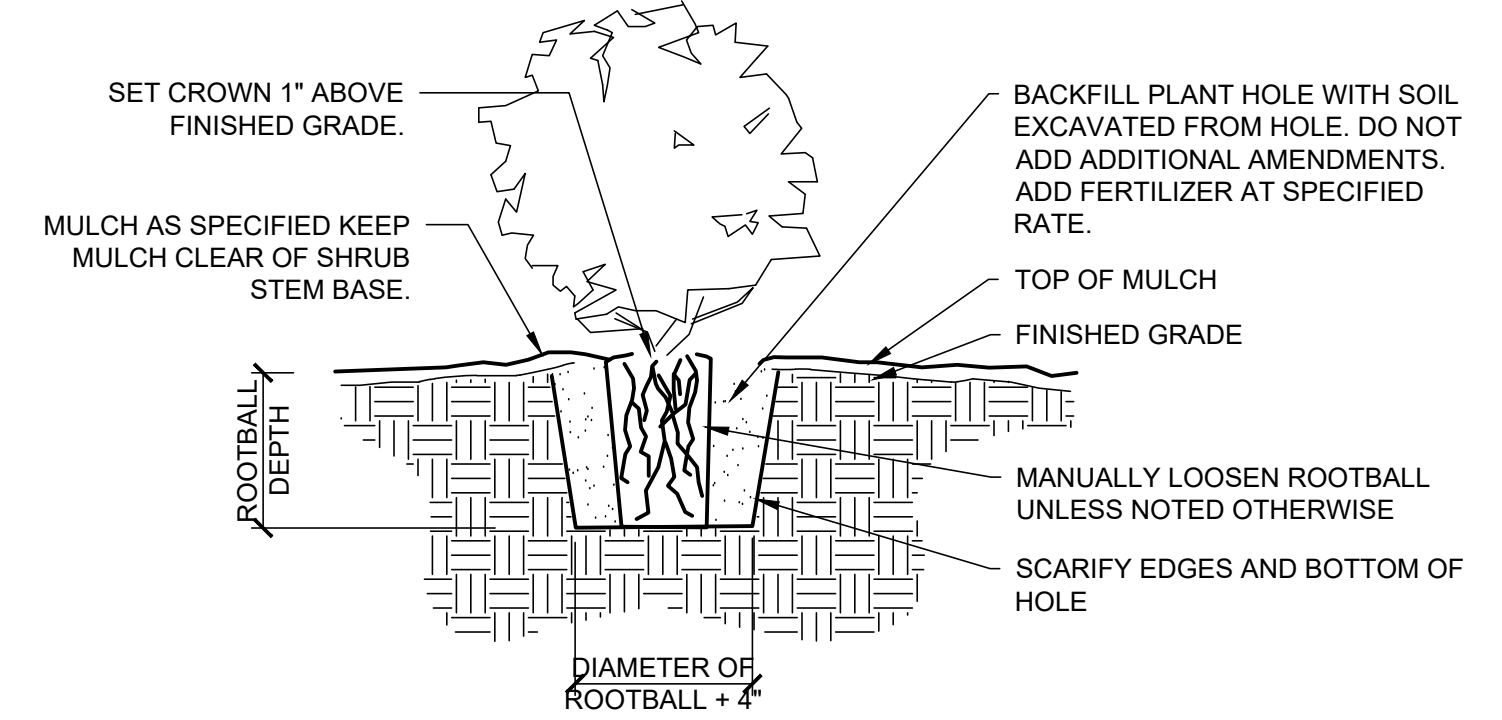
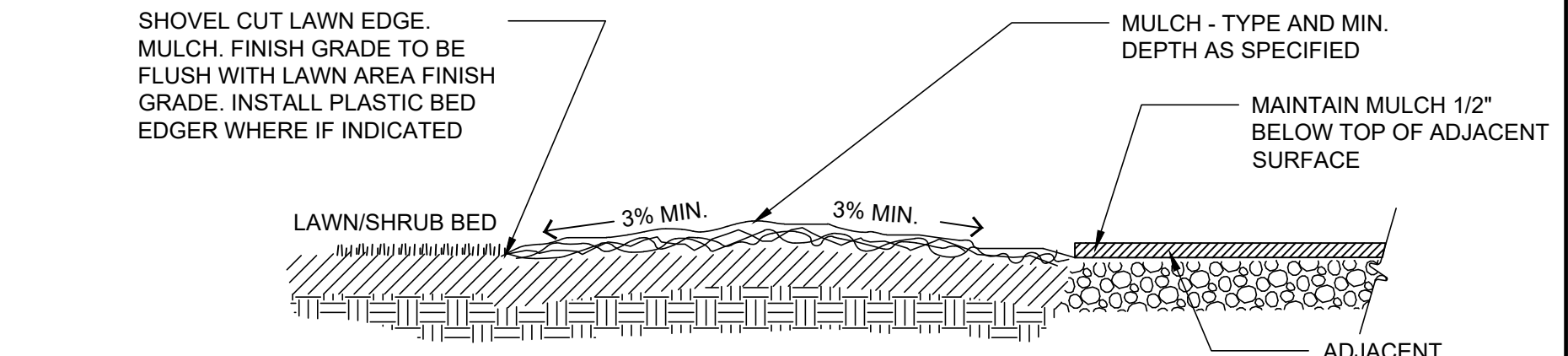
Street Tree Location and Clearances			CITY OF WILSONVILLE PUBLIC WORKS STANDARDS
DRAWING NUMBER: RD-1240	DRAWN BY: SR	SCALE: N.T.S.	
FILE NAME: RD-1240.DWG	APPROVED BY: NK	DATE: 12/31/14	

**UTILITY NOTE:**

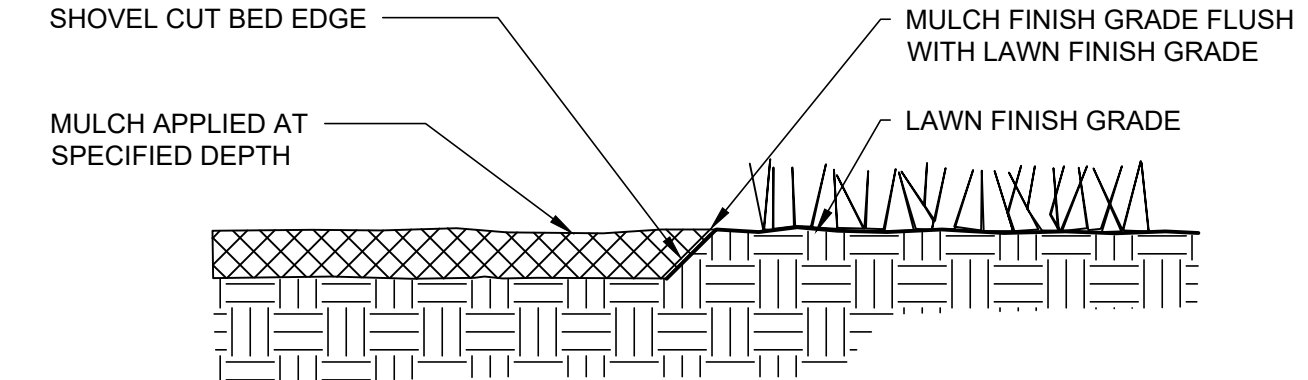
CONTRACTOR IS CAUTIONED THAT EXISTING UNDERGROUND FACILITIES OCCUR THROUGHOUT THE WORK AREAS INCLUDING BUT NOT LIMITED TO POWER, GAS, TELEPHONE, WATER SUPPLY, AND IRRIGATION. CONTRACTOR SHALL MARK THE FACILITIES BEFORE WORK, POTHOLE WHERE NECESSARY, AND PROTECT DURING CONSTRUCTION. IMMEDIATELY NOTIFY OWNER'S REPRESENTATIVE IF ANY CONFLICTS ARE FOUND.

**LANDSCAPE NOTES:**

1. GENERAL: SEVERAL OF THE FOLLOWING NOTES SUMMARIZE THE PROJECT SPECIFICATIONS FOR THE CONTRACTORS CONVENIENCE. IF A DISCREPANCY EXISTS BETWEEN THESE NOTES AND THE PROJECT SPECIFICATIONS THE SPECIFICATIONS SHALL OVERRIDE.
2. THE LANDSCAPE CONTRACTOR IS TO THOROUGHLY REVIEW THE SITE. IF THERE ARE ANY DISCREPANCIES BETWEEN THE PLAN AND THE EXISTING CONDITIONS THE OWNERS REPRESENTATIVE IS TO BE NOTIFIED IMMEDIATELY.
3. IF THE LANDSCAPE CONTRACTOR STARTS WORK BEFORE SITE CONDITIONS ARE READY OR CONTINUES WORK IN ADVERSE CONDITIONS WITHOUT PRIOR APPROVAL THEY WILL BE RESPONSIBLE FOR ANY ADDITIONAL COSTS RELATING TO THE CONDITION.
4. IMMEDIATELY NOTIFY OWNERS REPRESENTATIVE CONCERNING ANY CONDITION AT ANY TIME DURING CONSTRUCTION THAT IS DETRIMENTAL TO THE HEALTH AND VIGOROUS GROWTH OF THE SPECIFIED PLANT MATERIAL.
5. PROVIDE QUANTITY OF PLANT MATERIAL INDICATED IN PLANT LIST OR THE QUANTITY REQUIRED TO COVER AREAS INDICATED AT SPECIFIED SPACING, WHICHEVER IS GREATER.
6. IF AN AREA DIFFERS SIGNIFICANTLY IN SIZE FROM THAT SCALED ON DRAWING AND REQUIRES MORE OR LESS MATERIAL THE OWNERS REPRESENTATIVE IS TO BE INFORMED.
7. TOPSOIL: APPLY 9-INCH IMPORT TOPSOIL TO NEW PLANTED EXCEPT:
  - 7.1. AT STORM POND AND LIDA FACILITIES INSTALL STORMWATER FACILITY GROWING MEDIUM PER CITY OF WILSONVILLE 2015 STORMWATER & SURFACE WATER DESIGN & CONSTRUCTION STANDARDS SECTION 3.A.4.00.
  - 7.2. DO NOT APPLY TOPSOIL TO RIPARIAN MITIGATION AREA IN SROZ.
8. SOIL ANALYSIS: CONTRACTOR SHALL OBTAIN A COPY OF OWNER-PROVIDED SOIL TEST. AMEND AND FERTILIZE IN CONFORMANCE WITH RECOMMENDATIONS INDICATED IN THE REPORT.
9. COMPOST: APPLY 3-INCH DEPTH COMPOST TO TOPSOIL. DO NOT APPLY AT STORM OR LIDA FACILITIES. THOROUGHLY BLEND WITH TOPSOIL TO A DEPTH OF 6 INCHES.
  - 9.1. DO NOT APPLY COMPOST TO RIPARIAN MITIGATION AREA IN SROZ.
10. FERTILIZER: APPLY FERTILIZER TO ALL PLANT HOLES AND TURF AREAS OF THE TYPE, QUANTITY, APPLICATION METHOD, AND TIMING NOTED IN THE SPECIFICATIONS. DO NOT APPLY FERTILIZER AT STORM FACILITIES.
11. BARK MULCH: SPREAD 3-INCH DEPTH FINE-MEDIUM GRADE FIR/HEMLOCK BARK OVER SHRUB BEDS. DO NOT APPLY MULCH AT STORM POND, LIDA FACILITIES, OR IN RIPARIAN MITIGATION AREA IN SROZ. KEEP BARK CLEAR OF TREE AND SHRUB STEM BASE.
12. PLANTING POCKETS: BACK FILL PLANT HOLE WITH SOIL EXCAVATED FROM HOLE. DO NOT ADD ADDITIONAL AMENDMENTS.
13. ROOT BARRIER: INSTALL PER CITY OF WILSONVILLE DETAIL RD-1240. SEE SHEET L3.0.
14. PLANT MATERIAL: ALL PLANT MATERIAL SHALL MEET MINIMUM QUALITY AND SIZE REQUIREMENTS ESTABLISHED IN THE AMERICAN STANDARD FOR NURSERY STOCK GUIDELINES.
15. LEAVE PLANT NAME IDENTIFICATION TAGS ON TEN PERCENT OF ALL TREES AND SHRUBS INSTALLED TO AID INSPECTORS IN VERIFYING THAT SPECIFIED PLANTS HAVE BEEN INSTALLED.
16. PLANT CENTER OF SHRUBS A MINIMUM OF 24 INCHES FROM ADJACENT PAVING. PLANT GROUNDCOVERS A MINIMUM OF 18 INCHES FROM ADJACENT PAVING. WHERE PLANTER IS LESS THAN 6 FEET WIDE, SET PLANTS HALF OF THE NOTED PLANT SPACING FROM ADJACENT PAVING.
17. WHERE PLANT BED SLOPE IS LESS THAN 3% MOUND PLANTING BED AREAS 3% MINIMUM FOR POSITIVE DRAINAGE.
18. SEE SPECIFICATIONS FOR FINAL INSPECTION, MAINTENANCE, AND WARRANTY REQUIREMENTS UNIQUE TO THIS PROJECT.
19. SEE SPECIFICATIONS FOR OTHER LANDSCAPE CONSTRUCTION REQUIREMENTS.



**SHRUB PLANTING DETAIL**



**SHOVEL CUT BED EDGE**



**FROG POND OAKS**  
41 DETACHED SINGLE FAMILY LOTS  
CITY OF WILSONVILLE, OREGON

REVISIONS	
#	DESCRIPTION

NAVDB8	DATUM	OTAK CAD	KJB
DRAWN BY	CHECKED BY	LAND USE SUBMITTAL	STATUS
FEBRUARY 18, 2022			
DATE			
20141	PROJECT NUMBER		

LANDSCAPE NOTES AND DETAILS

Plotted: Feb. 14, 2022 - 4:28am, gabriel.kruse, L:\Projects\20100020141\CADD\ACAD\Draw\FrogPond - Oaks\P201411200.dwg, Layout Name: L2.40

## LIGHTING NOTES:

1. LIGHT POLES ALONG ALL ROADWAYS SHALL BE PER PGE APPROVED STREET LIGHTING EQUIPMENT:

MANUFACTURER: HADCO WESTBROOKE POLE  
 MANUFACTURER PRODUCT CODE: CP2871C  
 PGE NUMBER: SU 40034  
 WESTBROOKE POLE 4FT MAST ARM CA7897 SU 90002579

2. LIGHT POLES ALONG ALL PATHS SHALL BE:

MANUFACTURER: NOVA  
 CATALOG NUMBER: NP8050D13AB

3. POLE FOOTING SHALL BE PER CITY PUBLIC WORK STANDARD RD-1345 (PG4):

MANUFACTURER: OLDCASTLE PRECAST  
 CATALOG NUMBER: 20R-LB-4-PGE  
 OLDCASTLE PRECAST 7-LB-PGE (USED FOR LIGHT POLES IN SWALES)

4. JUNCTION BOXES SHALL BE PER CITY PUBLIC WORK STANDARD RD-1325 AND RD-1345 (PG5):

"LIGHTING" SHALL BE IN THE LID MARKING AREA PER RD-1325.

5. WESTBROOKE LUMINAIRE FOR THE ROADWAY LIGHTING SHALL BE:

MANUFACTURER: PHILIPS HADCO  
 MANUFACTURER PRODUCT CODE: C7897GA-A3N73032A3NNNNA  
 PGE NUMBER: CU 1433

6. WESTBROOKE LUMINAIRE FOR THE PATHWAY LIGHTING SHALL BE:

MANUFACTURER: PHILIPS HADCO  
 CATALOG NUMBER: CFX14-32-G2-A-3-W-A-3-H (HOUSE SIDE SHIELD)

7. 7 PIN ADAPTER FOR CONTROLLER NODE. INSTALL SHORTING CAP IN PLACE OF NODE. THE PHOTOELECTRIC CONTROL SHALL BE PGE APPROVED TWISTLOCK, FAIL-ON, ELECTRONIC, 105-300 VAC, 60 HZ, PER ANSI136.10, BRONZE HOUSING, 1.5 LUMEN TURN-ON, RATED 1000 W TUNGSTON (1800 VA BALLAST), 1.5:1 TURN-OFF / TURN-ON RATION, SOLID BRASS PLUG BLADES, CONFORMALLY COATED CDS CELL, 160 JOULE MOV, 2-4 SEC. TURN-OFF DELAY. PGE APPROVED PHOTOELECTRIC CONTROLS ARE:

MANUFACTURER: ACUITY BRANDS (DTL)  
 CATALOG NUMBER: D124-1.5-1704

8. THE STREETLIGHT WIRE SHALL BE:

#10 AWG, 600 VOLT, 3-CONDUCTOR, CLASS B STRANDING, TYPE TC, WITH SUNLIGHT-RESISTANT 45-MIL PVC JACKET. SUITABLE FOR DIRECT BURIAL INSTALLATIONS. INSULATION TO BE BLACK, RED, AND GREEN PER NEMA WC-7 FOR NEC APPLICATIONS (TFN, THWN, THHN), WITH FILLERS OR BINDING TAPE ADDED TO PRODUCE ROUND OUTER JACKET, RATED 90 DEGREES C DRY AND 75 DEGREES C WET, 1,000 FT NR REELS. JACKET TO DISPLAY SEQUENTIAL FOOTAGE MARKINGS. 2 REEL LABELS, ONE ATTACHED TO THE OUTSIDE FLANGE SURFACE, ONE ATTACHED TO THE DRUM WRAPPING; EACH TO DETAIL TOTAL FOOTAGE, INSIDE OR STARTING FOOTAGE.

## GENERAL NOTES

- ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO P.G.E. OPTION "B" SPECIFICATIONS.
- ALL ELECTRICAL EQUIPMENT SHALL CONFORM TO THE CURRENT STANDARDS OF THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) AND THE UNDERWRITERS LABORATORIES, INC. (U.L.). WHEREVER APPLICABLE. IN ADDITION TO THE REQUIREMENTS OF THE PLANS, STANDARD SPECIFICATIONS, AND THE SPECIAL PROVISIONS, ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CURRENT REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) THE NATIONAL ELECTRICAL SAFETY CODE, STANDARDS OF THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), AND ANY LOCAL ORDINANCES WHICH MAY APPLY.
- LOCATION OF ILLUMINATION CONDUITS AND JUNCTION BOXES ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE WITH OTHER UTILITIES TO ENSURE PROPER INSTALLATION.
- THE CONTRACTOR SHALL COORDINATE WORK WITH LISA GUARNERO OF PGE AT (503) 742-8299 TO COORDINATE POWER SERVICE CONNECTION FOR THE LIGHTING SYSTEM.

LIGHTING TABLE				
ROADWAY	CLASSIFICATION		3000K FIXTURE	
			LIGHT LEVEL (FC)	UNIFORMITY (AVE.MIN)
FROG POND @ WILLOW CREEK DR INTERSECTION	COLLECTOR/ LOCAL	RECOMMENDED	≥1.0	≤4:1
		DESIGN	1.0	3.4 : 1
FROG POND @ LAKESPUR TER INTERSECTION	COLLECTOR/ LOCAL	RECOMMENDED	≥1.0	≤4:1
		DESIGN	1.1	2.2 : 1
SW LARKSPUR TER @ STREET C INTERSECTION	LOCAL/LOCAL	RECOMMENDED	≥0.8	≤6:1
		DESIGN	0.9	2.2 : 1
SW WILLOW CREEK DR @ STREET C INTERSECTION	LOCAL/LOCAL	RECOMMENDED	≥0.8	≤6:1
		DESIGN	0.8	1.6 : 1
SW WILLOW CREEK DR @ STREET D INTERSECTION	LOCAL/LOCAL	RECOMMENDED	≥0.8	≤6:1
		DESIGN	1.0	2.5 : 1
STREET D @ STREET E INTERSECTION	LOCAL/LOCAL	RECOMMENDED	≥0.8	≤6:1
		DESIGN	0.9	3.1 : 1
SW FROG POND LN WILLOW CREEK DR TO LARKSPUR TER	COLLECTOR	RECOMMENDED	≥0.6	≤4:1
		DESIGN	1.0	2.7 : 1
SW FROG POND LN LARKSPUR TER TO MARIGOLD TER	COLLECTOR	RECOMMENDED	≥0.6	≤4:1
		DESIGN	1.0	2.7 : 1
SW LARKSPUR TERR FROG POND LN TO STREET C	LOCAL	RECOMMENDED	≥0.4	≤6:1
		DESIGN	0.5	4.8 : 1
STREET C WILLOW CREEK DR TO LARKSPUR TER	LOCAL	RECOMMENDED	≥0.4	≤6:1
		DESIGN	0.6	2.9 : 1
STREET C LARKSPUR TER TO MARIGOLD TER	LOCAL	RECOMMENDED	≥0.4	≤6:1
		DESIGN	0.5	5.2 : 1
SW WILLOW CREEK DR FROG POND LN TO STREET C	LOCAL	RECOMMENDED	≥0.4	≤6:1
		DESIGN	0.5	5.0 : 1
SW WILLOW CREEK DR STREET C TO STREET D	LOCAL	RECOMMENDED	≥0.4	≤6:1
		DESIGN	0.7	2.5 : 1
STREET D WILLOW CREEK DR TO STREET E	LOCAL	RECOMMENDED	≥0.4	≤6:1
		DESIGN	0.4	4.3 : 1
STREET D STREET E TO MARIGOLD TER	LOCAL	RECOMMENDED	≥0.4	≤6:1
		DESIGN	0.5	4.6 : 1
STREET E STREET D TO SW KAHLE RD	LOCAL	RECOMMENDED	≥0.4	≤6:1
		DESIGN	0.5	5.1 : 1

LUMINAIRE TABLE										
POLE NUMBER	ROADWAY	STATION	POLE STYLE	POLE TYPE	LUMINAIRE				MOUNTING HEIGHT	ARM LENGTH
					WATT	TYPE	DISTRIBUTION	DIMMING		
1	SW FROG POND LANE	13+35	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
2	SW FROG POND LANE	14+20	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
3	SW FROG POND LANE	15+06	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
4	SW FROG POND LANE	15+92	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
5	SW FROG POND LANE	16+77	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
6	SW FROG POND LANE	17+50	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
7	SW LAKESPUR TERR	48+60	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
8	SW LAKESPUR TERR	50+18	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
9	STREET C	10+44	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
10	STREET C	11+34	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
11	STREET C	12+56	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
12	STREET C	13+47	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
13	STREET C	14+83	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
14	SW WILLOW CREEK DR	20+11	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
15	SW WILLOW CREEK DR	21+70	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
16	SW WILLOW CREEK DR	22+58	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
17	SW WILLOW CREEK DR	23+54	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
18	SW WILLOW CREEK DR	24+33	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
19	STREET D	10+26	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
20	STREET D	11+65	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
21	STREET D	13+00	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
22	STREET D	13+54	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
23	STREET D	14+88	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
24	STREET E	10+84	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
25	STREET E	12+00	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
26	STREET E	13+57	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
27	MAIN PATH		NOVA	PATHWAY	35	LED	M-C-3	0.25	12'	4'
28	MAIN PATH		NOVA	PATHWAY	35	LED	M-C-3	0.25	12'	4'
29	MAIN PATH		NOVA	PATHWAY	35	LED	M-C-3	0.25	12'	4'
30	MAIN PATH		NOVA	PATHWAY	35	LED	M-C-3	0.25	12'	4'
31	MAIN PATH		NOVA	PATHWAY	35	LED	M-C-3	0.25	12'	4'
32	MAIN PATH		NOVA	PATHWAY	35	LED	M-C-3	0.25	12'	4'
33	MAIN PATH		NOVA	PATHWAY	35	LED	M-C-3	0.25	12'	4'
34	MAIN PATH		NOVA	PATHWAY	35	LED	M-C-3	0.25	12'	4'
35	MAIN PATH		NOVA	PATHWAY	35	LED	M-C-3	0.25	12'	4'
36	WEST PATH		NOVA	PATHWAY	35	LED	M-C-3	0.25	12'	4'
37	WEST PATH		NOVA	PATHWAY	35	LED	M-C-3	0.25	12'	4'

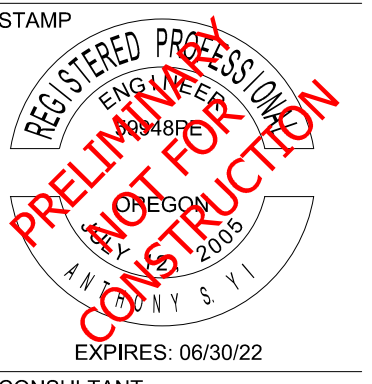
PATHWAY LIGHTING TABLE			
MAIN PATHWAY		3000K FIXTURE	
		RECOMMENDED	≥0.4
WEST PATHWAY	RECOMMENDED	≥0.4	≤4:1
	DESIGN	0.5	2.7 : 1



W Logo\_Loop\_280x100.jpg



851 SW 6TH AVENUE, SUITE 600  
 PORTLAND, OR 97204  
 P 503.228.5230 F 503.273.9168



EXPIRES: 06/30/22

CONSULTANT

FROG POND OAKS

ILLUMINATION NOTES

TITLE

#	DATE	DESCRIPTION

REVISIONS

JCH ASY  
 DRAWN BY CHECKED BY  
**PRELIMINARY**  
 STATUS  
 DECEMBER 17, 2021  
 DATE  
 27328  
 PROJECT NUMBER

IL-1

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Preliminary

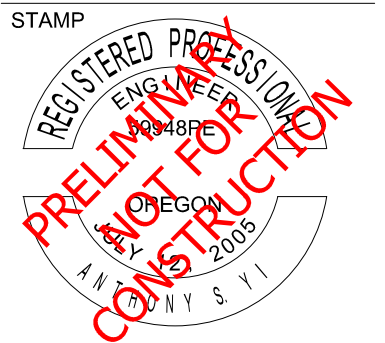
01/04/2022 11:26:08 AM



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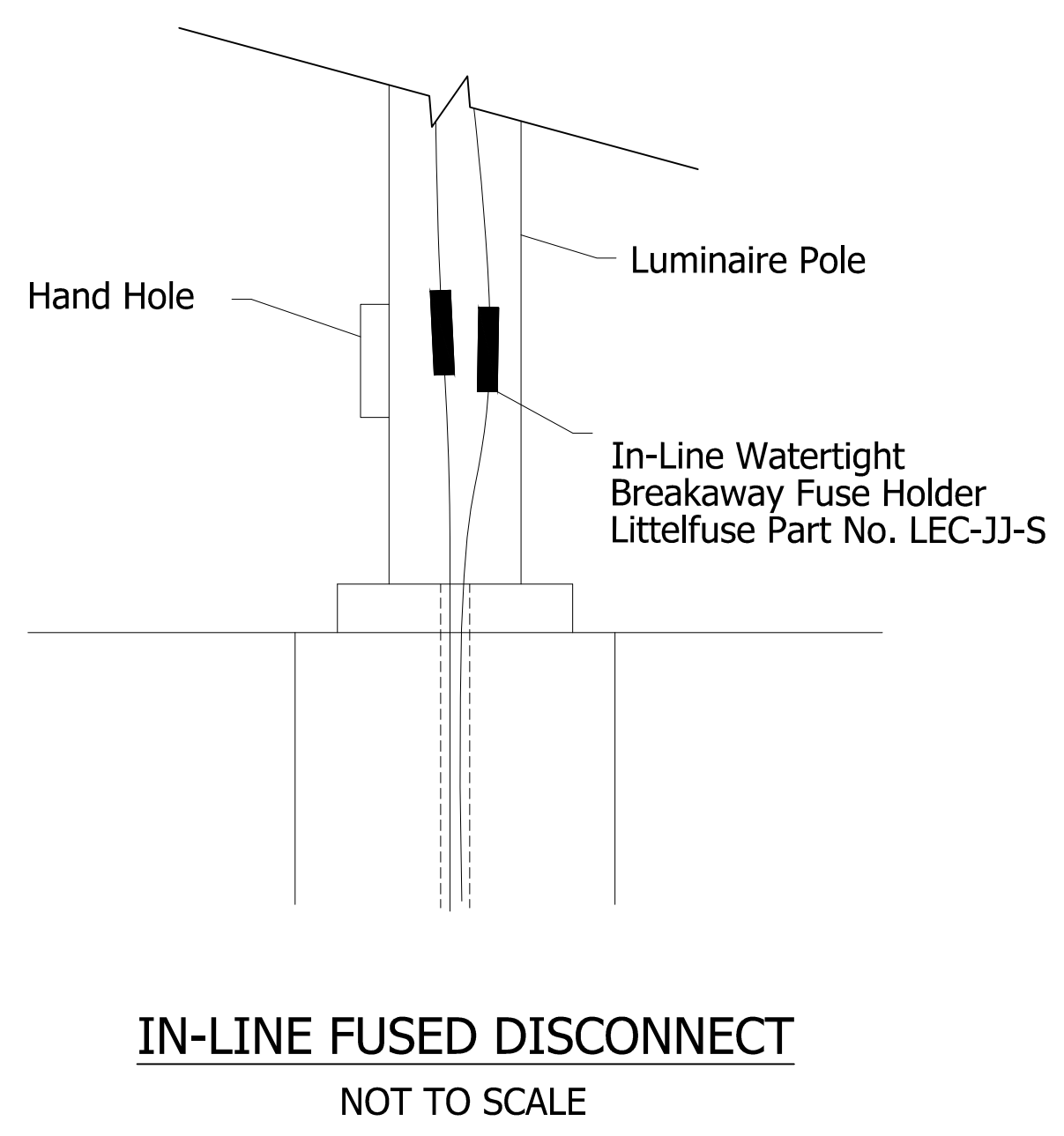
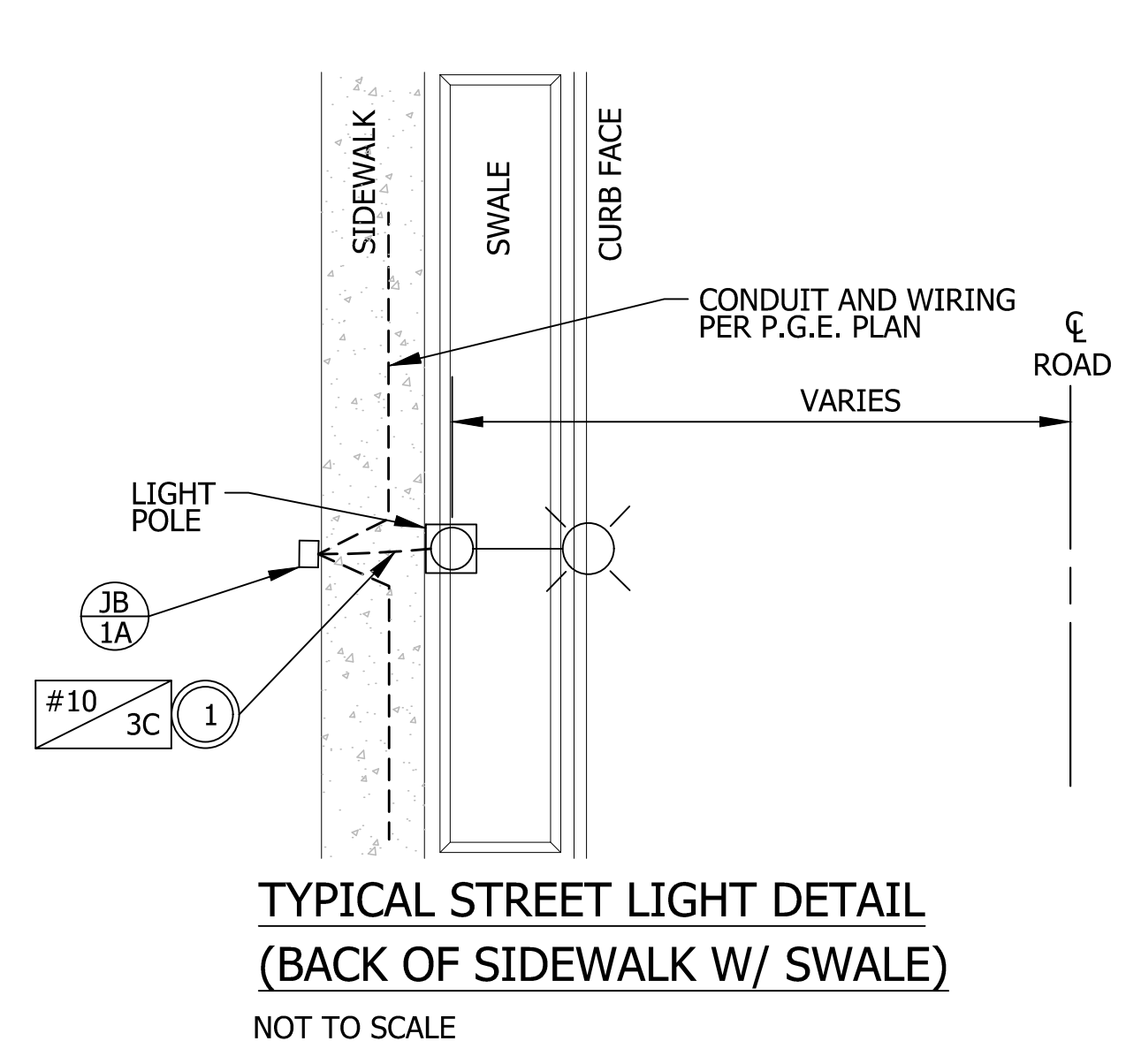
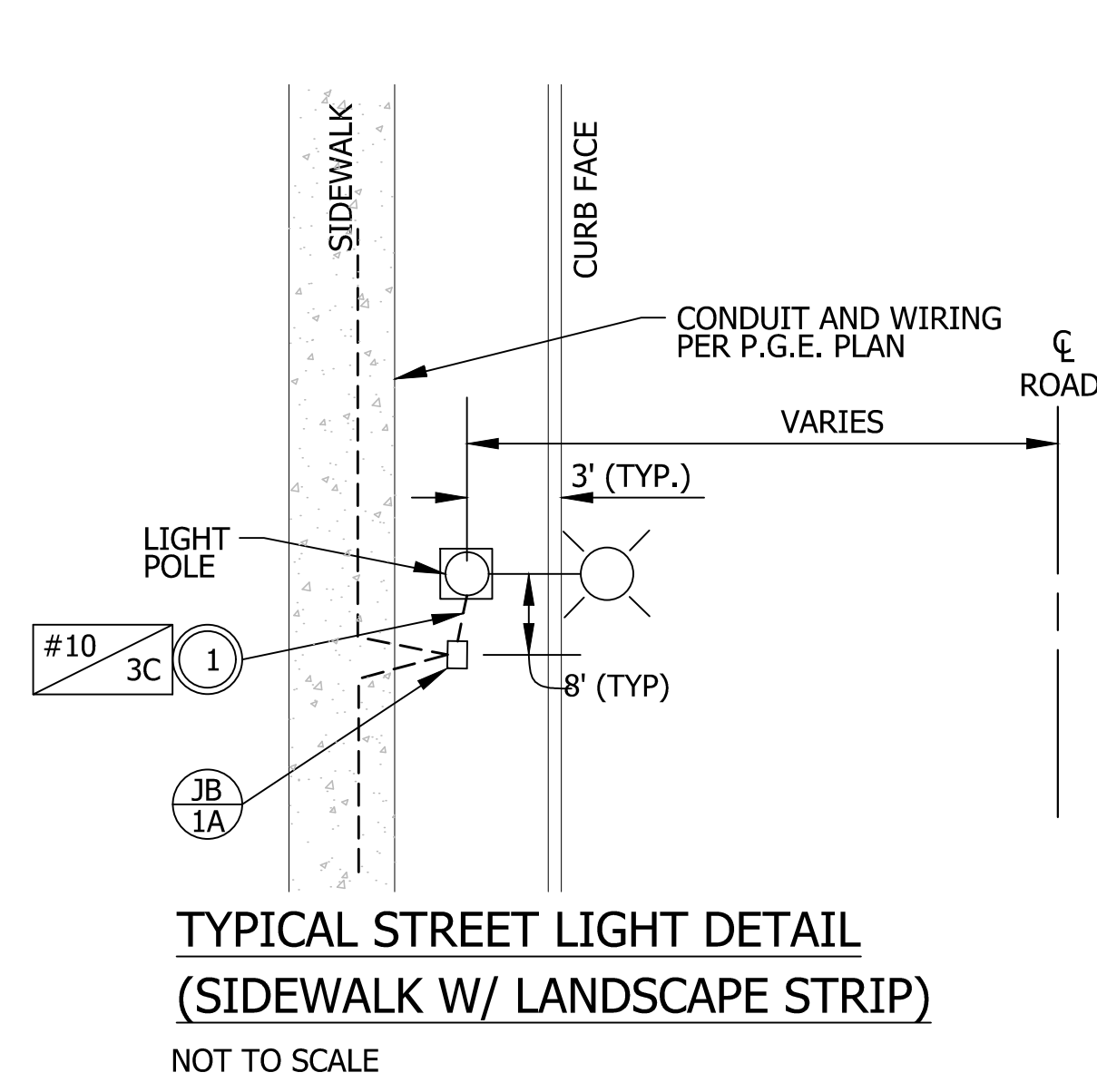
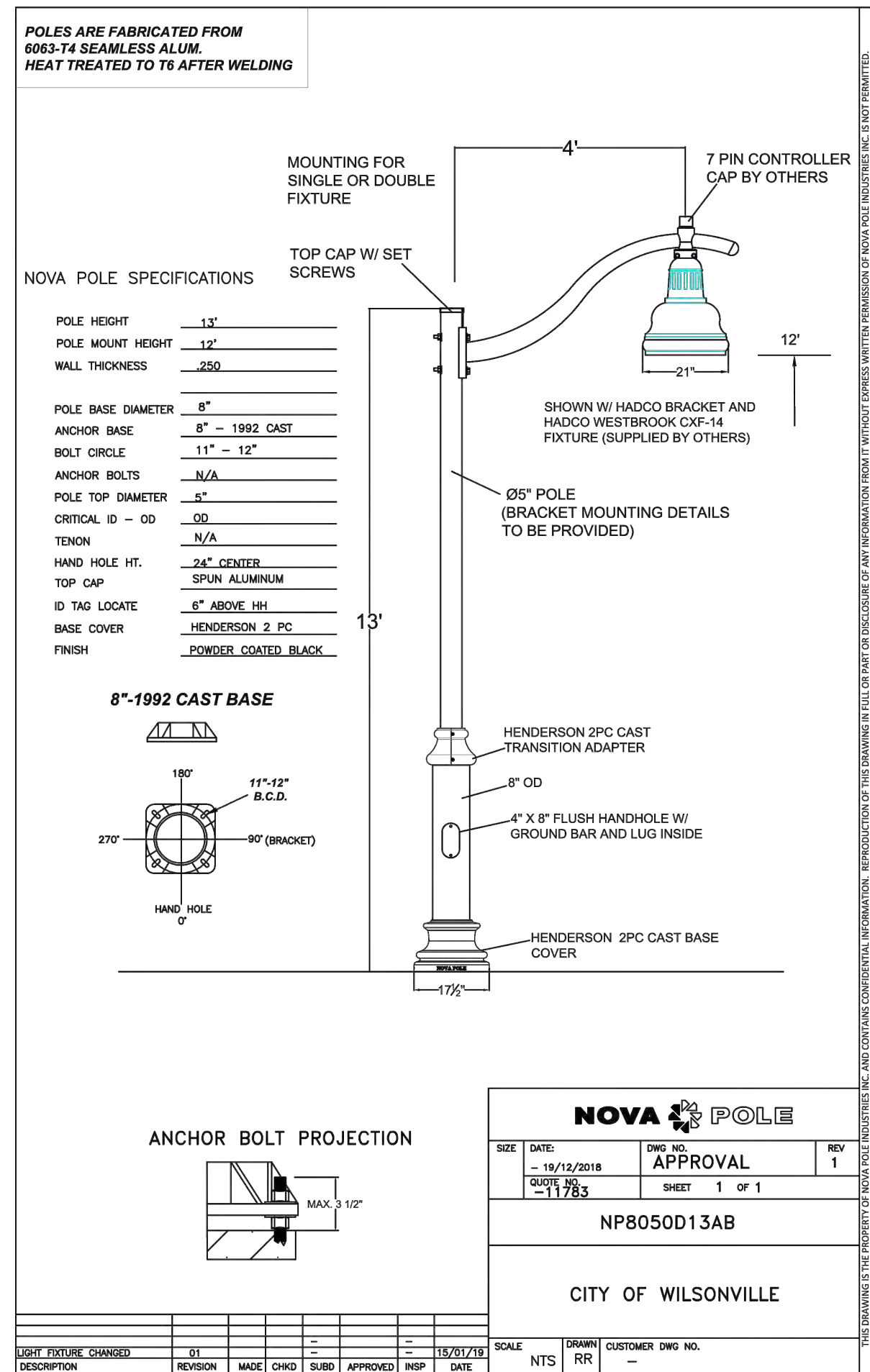
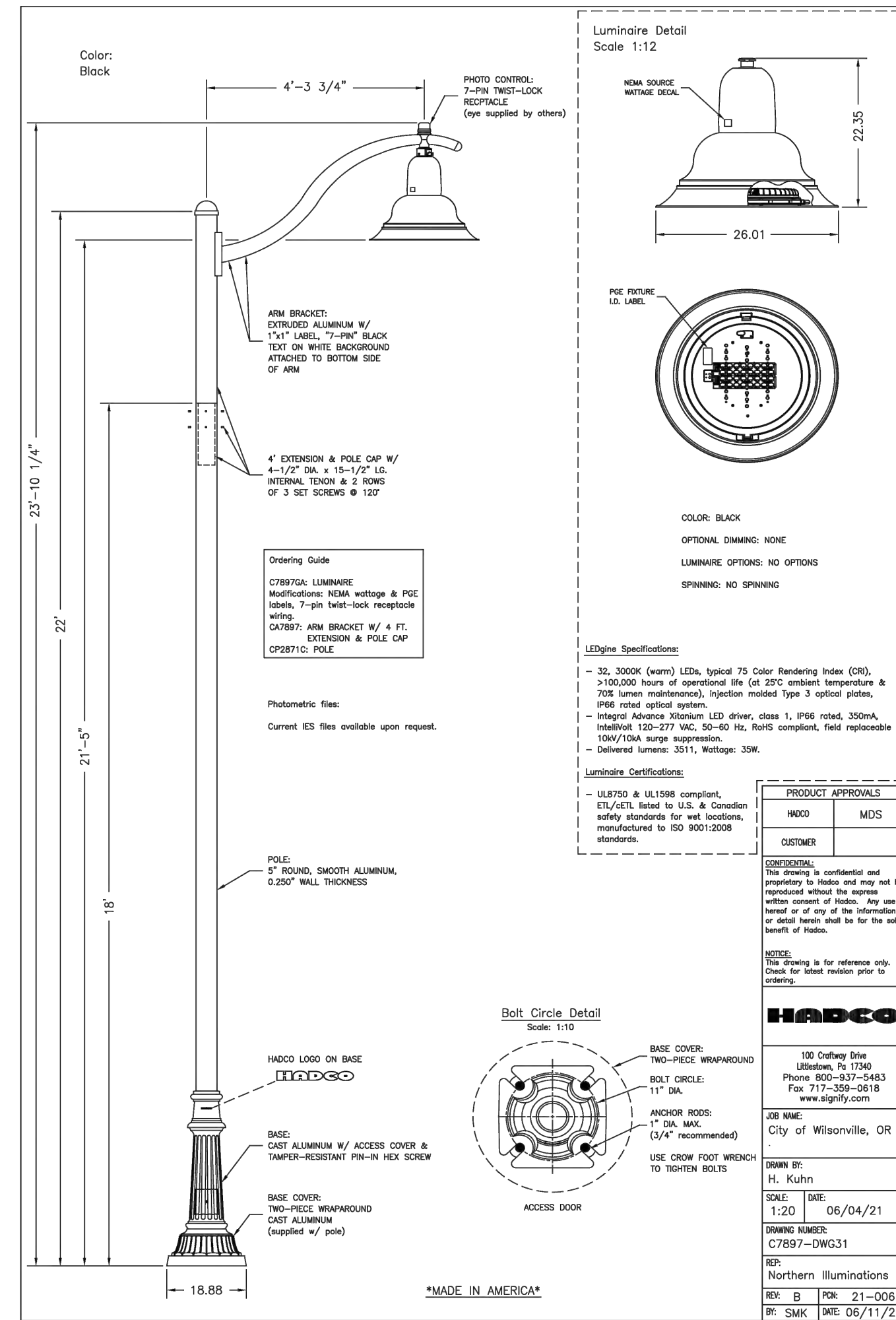
**KITTELSON & ASSOCIATES**

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PORTLAND, OR 97204  
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**FROG POND OAKS**  
ILLUMINATION DETAILS



Plotted: Jun 04, 2022 - 11:03am H:\27\7328 - Frog Pond Development\design\Frog Pond Oaks\_CD\27328 Frog Pond Oaks Lum Plans.rvt Layout Name: IL-2

**Preliminary**  
01/04/2022 11:26:03 AM

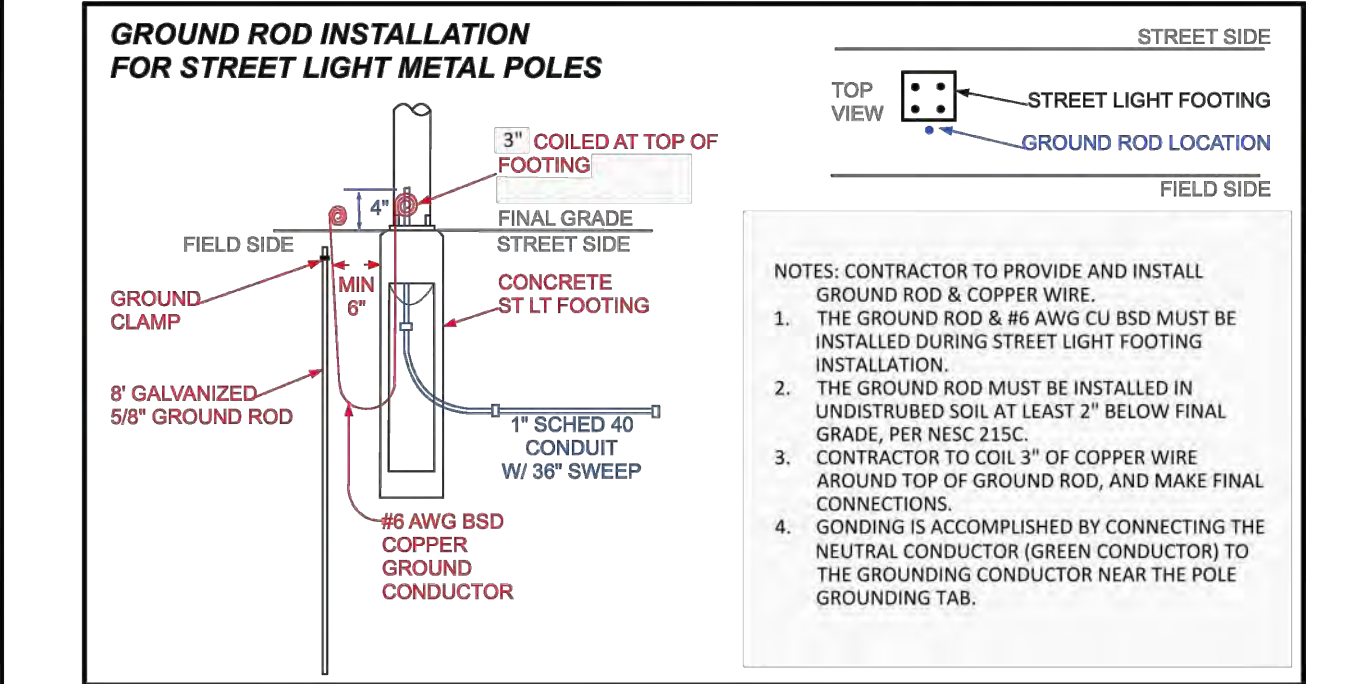
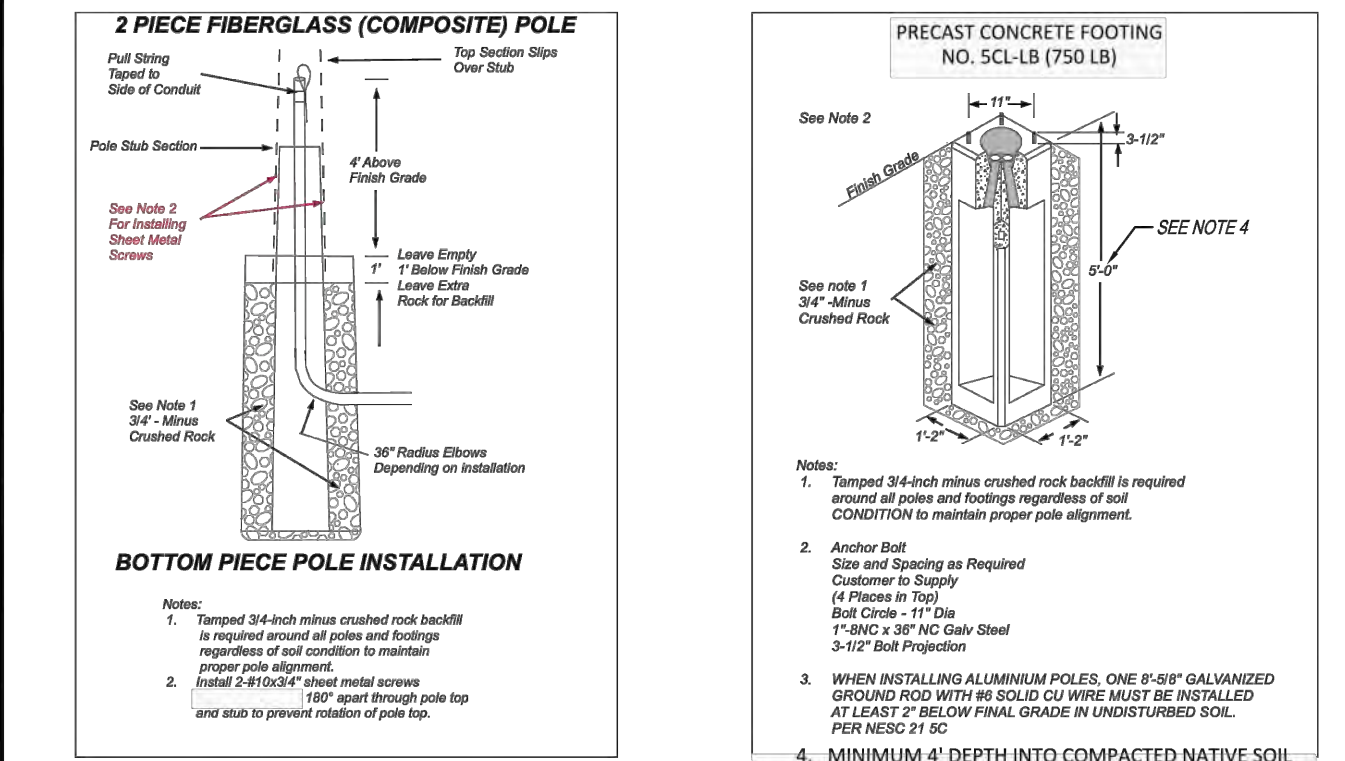
IL-2  
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This Detail Drawing may not be altered or changed in any manner except by the City Engineer. It is the responsibility of the user to acquire the most current version.

- ALL CONCRETE FOOTINGS NEED TO BE INSTALLED WITH TOP OF BASE FLUSH TO CURB/SIDEWALK.
- ALL CROSSINGS MUST EXTEND FROM PROPERTY LINE TO PROPERTY LINE. CROSSINGS TO BE 48 INCHES DEEP, MEASURED FROM FINAL GRADE.
- DIRECTIONAL BORING REQUIREMENTS: BLACK HDPE (HIGH DENSITY POLYETHYLENE) DUCT OR SCHEDULE 40 PVC WITH A MECHANICAL CONNECTION (CERTA-LOK OR LIKE MECHANICAL CONNECTION PRODUCT) PROJECT EXTRUDED RED STRIPES (WHICH IS A SPECIFICATION REQUIREMENT) MANDREL TEST OF HDPE PIPE IS REQUIRED AFTER INSTALLATION WITH CITY INSPECTOR PRESENT.
- TRENCH AND ELBOW CONFIGURATIONS, ALL CONDUIT, VAULT AND PAD INSTALLATIONS MUST BE INSPECTED PRIOR TO BACKFILLING.
- ALL CONDUCTORS TO BE INSTALLED IN GRAY, SCHEDULE 40, ELECTRICAL GRADE, PVC CONDUIT WITH NYLON PULL STRINGS (MIN 500 LBS. TEST). PGE TO DETERMINE THE SIZE AND NUMBER OF CONDUITS REQUIRED. MAINTAIN 12 VERTICAL INCHES AND 24 HORIZONTAL INCHES CLEARANCE BETWEEN GAS AND OTHER UTILITIES. ALL ELBOWS 4 INCH & SMALLER TO BE 36 INCH RADIUS. ALL BENDS MUST BE FACTORY MADE. ALL ELBOWS LARGER THAN 4 INCH TO BE 60 INCH RADIUS. RIGID STEEL OR PGE APPROVED. FIBERGLASS BENDS ARE REQUIRED FOR RUNS OF 151 FEET OR LONGER, OR FOR ANY LENGTH RUN WITH MORE THAN 180 DEGREES IN BENDS. PVC SCHEDULE 40 BENDS ARE ACCEPTABLE FOR RUNS OF 150 FEET OR LESS. THE MAXIMUM TOTAL BENDS IN ANY CONDUIT RUN IS 270 DEGREES.
- THE AIR GAP, IF ANY BETWEEN THE TOP OF THE FOOTING/PEDESTAL AND THE BOTTOM OF THE POLE SHALL BE GROUTED WITH HIGH STRENGTH, NON-SHRINK GROUT.

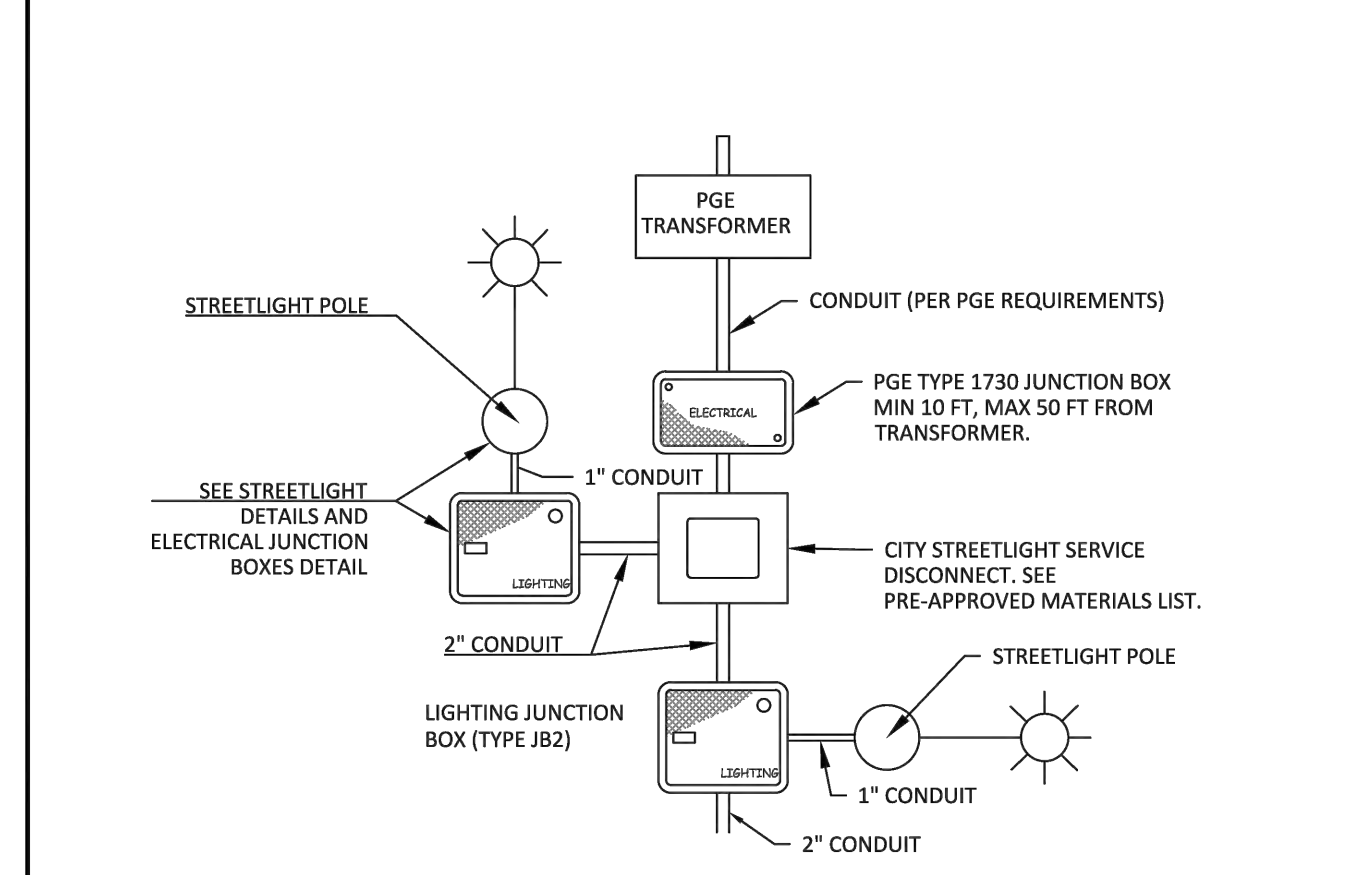
STREETLIGHT FOOTING REQUIREMENTS			CITY OF WILSONVILLE PUBLIC WORKS STANDARDS
DRAWING NUMBER: RD-1340	DRAWN BY: SR	SCALE: N.T.S.	
FILE NAME: RD-1340.dwg	APPROVED BY: NK	DATE: 08/08/17	

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Streetlight Footing Requirements			CITY OF WILSONVILLE PUBLIC WORKS STANDARDS
DRAWING NUMBER: RD-1335	DRAWN BY: SR	SCALE: N.T.S.	
FILE NAME: RD-1335.dwg	APPROVED BY: NK	DATE: 08/08/17	

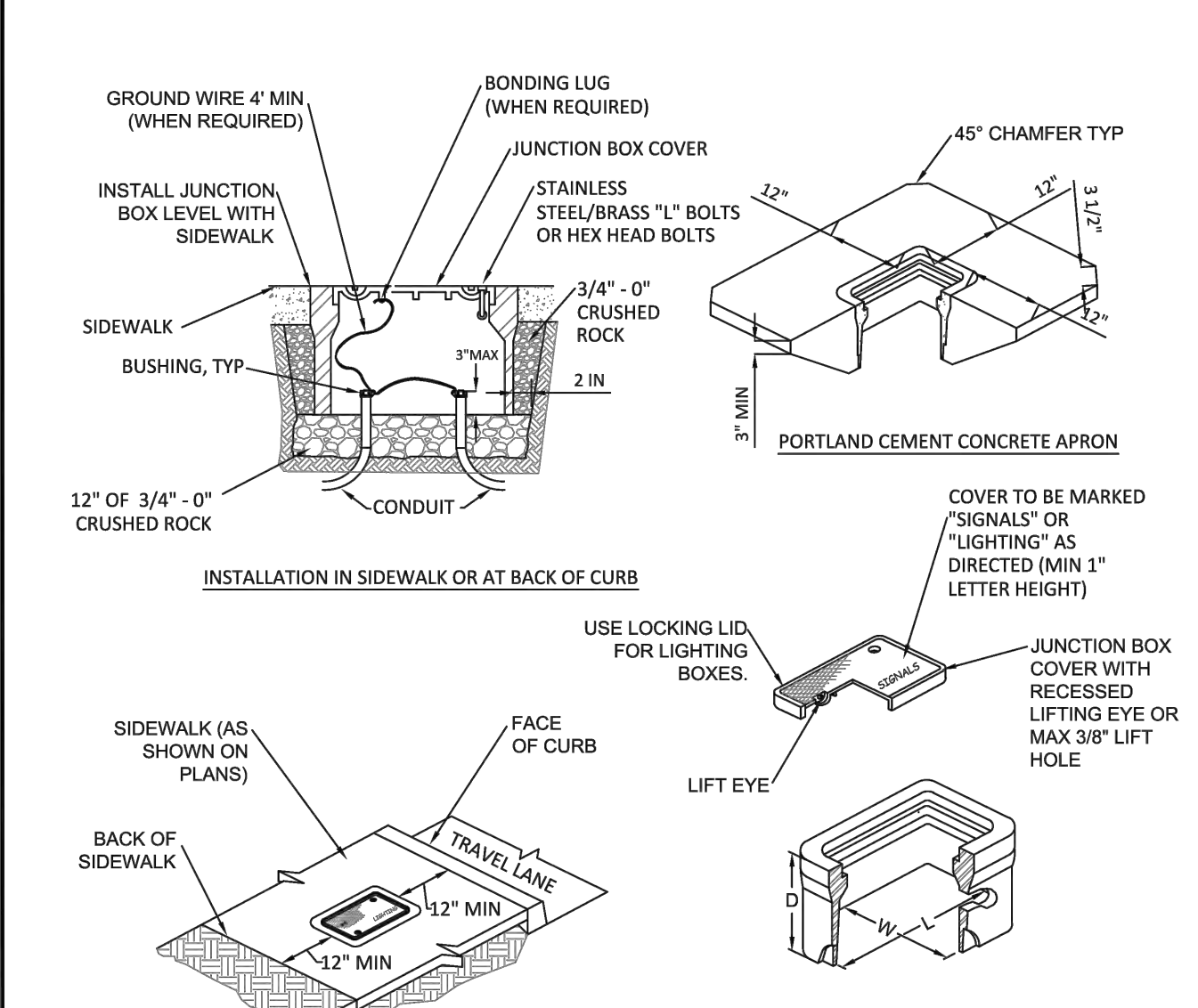
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- NOTES:
- MINIMUM CONDUCTOR SIZE SHALL BE 10 GA. CONDUCTORS SHALL BE UPSIZED IF REQUIRED TO KEEP VOLTAGE DROP TO LESS THAN 3%. 3-CONDUCTOR 7-STRAND COPPER WIRE WITH .030" XLPE INSULATION, FILLERS, AND CLEAR MYLAR WRAP TAPE NON-SHIELDED OVERALL .045" BLACK PVC JACKET (UL) TC-ER XHHW-2/VW-1 600V 90C DRY/WET, SUN RESISTANT, DIRECT BURY, CC: BLACK/RED/GREEN FOR 220 VOLT AND BLACK/WHITE/GREEN FOR 120 VOLT.
  - ALL EMPTY CONDUITS MUST HAVE A #14 LOCATE WIRE AND A NONCONDUCTIVE PULL LINE, 500 POUND RATED, WITH 6 FEET OF LINE EXTENDING FROM EACH END OF THE CONDUIT.
  - INSTALL ELECTRICAL GRADE SCHEDULE 40 GRAY PVC CONDUIT WITH FIBERGLASS BENDS. ALL PVC JOINTS SHALL BE GLOUED. ALL FACTORY OR FIELD CUT CONDUITS SHALL BE CHAMFERED TO PREVENT DAMAGE TO CABLES. A WOODEN, PLASTIC, OR HARD RUBBER MANDREL CONFIGURED FOR THE CONDUIT INSIDE DIAMETER SHALL BE PULLED THROUGH TO TEST FOR OBSTRUCTIONS AND OUT-OF-ROUND CONDUIT.
  - ELECTRICAL BUILDING PERMIT REQUIRED.

Streetlight Disconnect			CITY OF WILSONVILLE PUBLIC WORKS STANDARDS
DRAWING NUMBER: RD-1330	DRAWN BY: SR	SCALE: N.T.S.	
FILE NAME: RD1330.dwg	APPROVED BY: NK	DATE: 08/08/17	

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Electrical Junction Boxes			CITY OF WILSONVILLE PUBLIC WORKS STANDARDS
DRAWING NUMBER: RD-1325	DRAWN BY: SR	SCALE: N.T.S.	
FILE NAME: RD1325.dwg	APPROVED BY: NK	DATE: 08/08/17	

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POLES AND MAST ARMS	Valmont	Hadco	P&K Poles (Flagpole Inc)	Union Metal
30 foot, Davit	3000-85106D4	41-176PGE	RTA8L30AAD1632D	920-B179-Y1
6' Mast Arm (1952) (CU 279)				
30 foot, Double Davit 2-6' Mast	3000-856206D4Z	42-158XPGE	NONE	920-B180-Y1
35 foot, Davit 8' Mast	3500-8108D4	41-231PGE	RTA8M35AAD1832D	920-B179-Y2

POLE: DECORATIVE BLACK ALUMINUM (Use with Hadco Westbrook Fixture)		Hadco
Length		
18 Foot, Black, Smooth Anchor Base (11" B.C.)		CP2871C (40034)
4 Foot Pole Extension w/Arm Bracket, Pole Cap, and 18 Foot Smooth Westbrook Pole (CU 1437)		CA7897-HFP710-P5A (90002579)
4 Foot Pole Extension w/Double Mast Arm, Pole Cap, and 18 Foot Smooth Westbrook Pole (CU 1438)		CA2871L-HFP720-P5A (90003564)

POLES: COMPOSITE, 2-PIECE, SMOOTH FINISH, DIRECT-BURIED, TOP PIECE ONLY			
Length & Type	Mounting Height & Color	Shakespeare	CMT
30 Foot, Direct Buried	25 Feet, Bronze	BHT309955B19901 (39358) (CU 1111)	MDS30-F-100-52-HS-PC-NP-1B-22 (39372) (CU 1112)

POLE FOOTINGS: CONCRETE					
Precast Concrete Base	Bolt Circle	Bolt Projection	Bolt Type	Base Dimensions	Utility Vault Company
For all decorative and post-top anchor base poles 14 to 25 feet. (39083)				20" Round by 48" High	20R-LB-4- PGE
For 25 to 35 Foot Aluminum Anchor Base Poles (00147)	11 inch	3-1/2 inch	1" - 8 NC Galv Steel	14" Square by 60" High	SCL-LB- PGE
For 40 Foot Aluminum Anchor Base Poles (39094)				18" Top 24" Bottom 84" High	7-LB- PGE

Approved Street Lighting Equipment for New Installations Pg 4			CITY OF WILSONVILLE PUBLIC WORKS STANDARDS
DRAWING NUMBER: RD-1345	DRAWN BY: SR	SCALE: N.T.S.	
FILE NAME: RD-1345.dwg	APPROVED BY: NK	DATE: 08/28/17	

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**MISCELLANEOUS**

**GROUT**  
Non-Shrink Grout, such as Alcrete Twenty Minute Fast Setting Grout, or approved equal  
The air gap between the top of pedestal and bottom of light pole shall be grouted with a high-strength, non-shrinking grout meeting ODOT SSC Section 02440.50(b).

**MANHOLE COVER: GRAY, PLASTIC, STEEL CORE, UNIVERSAL**  
Quantum Engineering TL-S (90004595)

STREETLIGHT WIRE: UNDERGROUND OR IN POLE	
Streetlight Wire	Description
#10 CU 3-Conductor (00036) (CU 635)	#10 AWG, 600 Volt, 3-Conductor, Class B Stranding, Type TC, with Sunlight-Resistant 45-mil PVC Jacket. Suitable for direct burial installations. Insulation to be black, red, and green per NEMA WC-7 for NEC applications (TFN, THWN, THHN), with fillers or binding tape added to produce round outer jacket, rated 900C dry and 750C wet, 1,000 ft NR reels. Jacket to display sequential footage markings. 2 reel labels, one attached to the outside flange surface, one attached to the drum wrapping; each to detail total footage, inside or starting footage.

**JUNCTION BOX: FOR UNDERGROUND CONDUCTORS & CONNECTIONS**

Junction Box Description	Junction Box, Concrete Polymer Lid, Fiberglass Reinforced Polymer flared sides, 18" Deep, No Floor, With Skid Resistant Cover Attached by Two Captive stainless steel 3/8-inch Penta-head Bolts, Gray Color, per Material Specification L26107 Note: 12"x12"x12" is 12 inches deep with straight sides. Covers must be marked ELECTRIC or POWER.
Manufacturer	13" x 24" x 18" (00003478) 17" x 30" x 18" (00003480) 12" x 12" x 12" (39031)
Newbasis	FCA132418T-00043 FCA173018T-90026 PCA1212-90005 (Box: PMB1212S12N20 Lid: SMC1212B1A20)
Quazite (Hubbell)	A42132418A017 A42173018A017 N/A
Oldcastle /Carson Industries	13241817 17301820 HLW1212-12-PC
CDR (Electrimold)	N/A N/A PA-13-1212-12
Highline	CHA132418HE1 CHA173018HE1 PHA121212SE1
Armorcast	A6001946TAX18-PGE A6001640TAX18-PGE A6001423TA (Box: A6001423) (Cover: A6001422)

Approved Street Lighting Equipment for New Installations Pg 5			CITY OF WILSONVILLE PUBLIC WORKS STANDARDS
DRAWING NUMBER: RD-1345	DRAWN BY: SR	SCALE: N.T.S.	
FILE NAME: RD-1345.dwg	APPROVED BY: NK	DATE: 08/28/17	

Plotted: Jan 04, 2022 - 11:03am H:\27328 - Frog Pond Development\design\Frog Pond Oaks\_C0127238 Frog Pond Oaks Lum Plans.dwg Layout Name: IL-3



W  
KITTELSON & ASSOCIATES  
851 SW 6TH AVENUE, SUITE 600  
PORTLAND, OR 97204  
P 503.228.5230 F 503.273.9169



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FROG POND OAKS  
ILLUMINATION DETAILS

TITLE	#	DATE	DESCRIPTION
PRELIMINARY			

REVISIONS		
JCH	ASV	
DRAWN BY	CHECKED BY	

**Preliminary**  
01/04/2022 11:25:47 AM

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WHLand\_Logos\_Book.jpg

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PORTLAND, OR 97204  
P 503.228.5230 F 503.273.8168

STAMP



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**FROG POND OAKS**  
ILLUMINATION PLAN

TITLE

# DATE DESCRIPTION

REVISIONS

JCH ASY

DRAWN BY CHECKED BY

PRELIMINARY

STATUS

DECEMBER 17, 2021

DATE

27328

PROJECT NUMBER

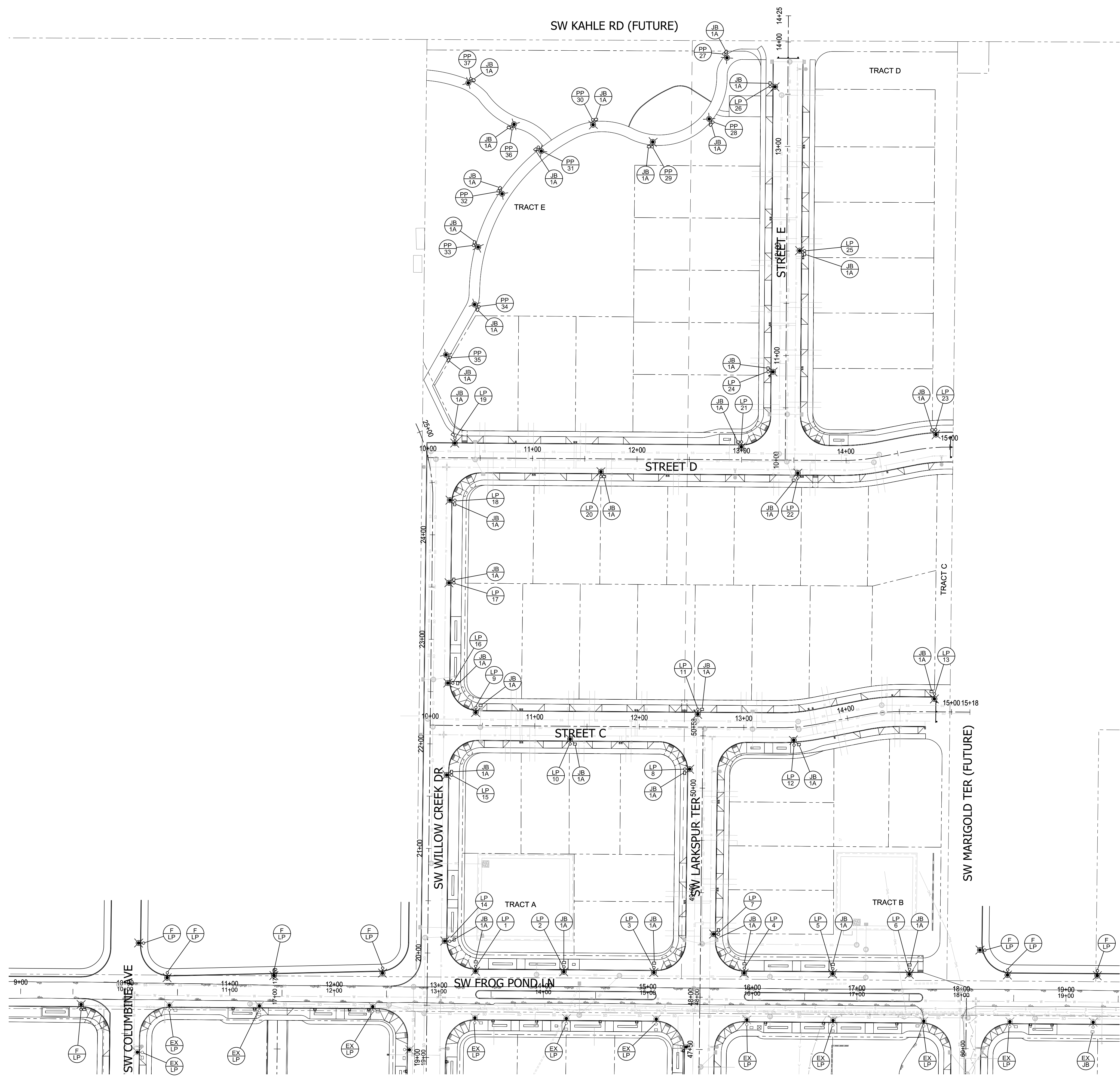
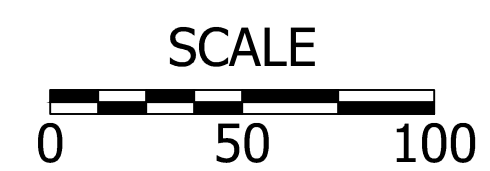
IL-4

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**LEGEND**

- FUTURE LUMINAIRE POLE. TO BE INSTALLED BY OTHERS.
- EXISTING LUMINAIRE POLE.
- INSTALL 17"x10"x12" (MIN. DIMENSION) PRECAST CONCRETE JUNCTION BOX WITH CONCRETE APRON.
- INSTALL N (N=NUMBER) LUMINAIRE POLE.
- INSTALL N (N=NUMBER) PEDESTRIAN PATH POLE.



**Preliminary**  
01/04/2022 11:25:57 AM

Plotted: Jan 04, 2022 - 11:04am H:\27328\Frog Pond Development\design\Frog Pond Oaks\_CD\27328 Frog Pond Oaks Lum Plans.dwg Layout Name: IL-4