#### PROJECT INFORMATION:

PROPERTY OWNER: LAKEWOOD INVESTORS LLC

12030 SUNRISE VALLEY DR STE 450 RESTON, VA 20191

SITE ADDRESS: O JACKSON HWY, CHEHALIS, WA 98532

010799001000 PARCEL NUMBER:

ZONING (CITY): UGA - URBAN GROWTH AREA

LOTS: 1 EXISTING

SITE SOILS: GALVIN SILT LOAM, 0 TO 8 PERCENT

SLOPES & SCAMMAN SILTY CLAY LOAM, 5 TO 15 PERCENT SLOPES

OWNER: CITY MAIN - METERED SANITARY SEWER: CITY MAIN - GRAVITY

GRADING: 19000± CY FILL 450± CY CUT

#### **SURVEY INFORMATION:**

NAVD 88

BASIS OF BEARING HOLDING RECORD OF SURVEY RECORDED UNDER AUDITOR'S FILE NO. 3325715, IN BOOK 27 OF SURVEYS AT PAGE 53, RECORDS OF LEWIS COUNTY.

#### **GEOTECHNICAL INFORMATION:**

A GEOTECHNICAL REPORT WAS NOT PREPARED FOR THIS PROJECT. IN LIEU OF A REPORT ALL CONSTRUCTION SHALL COMPLY WITH STANDARD SPECIFICATIONS.

#### TOPOGRAPHIC INFORMATION:

TOPOGRAPHIC INFORMATION DEPICTED IN THESE DRAWINGS WAS PROVIDED BY LEWIS COUNTY GIS DATA & GOODMAN LAND SURVEYING, INC. TOPOGRAPHIC INFORMATION WAS NOT FIELD VERIFIED BY FULLER DESIGNS.

#### LEGEND:

#### LINETYPES:

EVICTINO		DE00
EXISTING	PROPOSED	DESC.
		LOT LINE
		EASEMENT
$- \times - \times -$		FENCING
· · · ·	<u> </u>	DITCH/WETLAND
		RD CENTERLINE
		RIGHT OF WAY
		EDGE OF PAVEMENT
	·	EDGE OF GRAVEL
	-	BUILDING
	—— XX——	CONTOUR LINE (MAJOR)
		CONTOUR LINE (MINOR)
E	<u> —</u> Е  —	ELECTRICAL UNDERGROUND
OE	— OE—	ELECTRICAL OVERHEAD
OT	OT	TELECOMMUNICATION
G	— G —	GAS MAIN
W	— W —	WATER MAIN
—— SS ——	— SS —	SEWER MAIN
—— FM ——	— FM —	FORCE MAIN
ST	— ST —	STORM MAIN
		CULVERT
	— SF —	SILT FENCE
		PROJECT AREA

#### **SYMBOLS:**

PROPOSED	DESC.
	FLOW DIRECTION ARROW
<u>XXX.XX</u>	SPOT ELEVATION
	SEWER MANHOLE
(ST)	STORM MANHOLE
	CATCH BASIN
Ø	INSPECTION PORT
Owell	WELL
	WATER METER BOX
H	WATER VALVE
A	HYDRANT
00	BLOWOFF ASSEMBLY
<b>◄</b>	TRUST BLOCK
С	END CAP
	GAS VALVE
-0-	POLE
$\odot$	TREE
	ST

CONSTRUCTION PHASE LINE

### HATCH:

EXISTING	PROPOSED	DESC.
		ASPHALT PAVEMENT
		GRAVEL AREA
4 4 4		CONCRETE SIDEWALK

#### **ABBREVIATIONS:**

ASPHALT CONCRETE BEGIN CURB RETURN ВМ BENCHMARK **BVCS** BEGIN VERTICAL CURVE STATION **BCVE** BEGIN VERTICAL CURVE ELEVATION CATV CABLE TELEVISION CB CATCH BASIN CENTERLINE CMP CORRUGATED METAL PIPE CLEAN OUT CUBIC YARD DEGREES DIAMETER

EE ELECTRICAL ECR EOP END CURB RETURN EDGE OF PAVEMENT ELEV ELEVATION **EVCS** END VERTICAL CURVE STATION **EVCE** END VERTICAL CURVE ELEVATION

EXISTING FINISH FLOOR FINISH GRADE FIRE HYDRANT FLOW LINE FORCE MAIN GRADE BREAK

GAS METER GATE VALVE GΥ HIGH DENSITY POLYETHYLENE HIGH POINT INVERT ELEVATION

CALCULATED CURVE VALUE LENGTH LENGTH VERTICAL CURVE LINEAR FEET METER MAXMAXIMUM

MAN HOLE MINIMUM MECHANICAL JOINT NOT FOR CONSTRUCTION OVER HEAD POWER POWER

РC POINT OF CURVATURE РΙ POINT OF INTERSECTION PL PROPERTY LINE POB POINT OF BEGINNING POC POINT OF CONNECTION PRC POINT OF REVERSE CURVATURE

PΤ POINT OF TANGENCY PVC POLY-VINYL CHLORIDE RADIUS RCP REINFORCED CONCRETE PIPE RD ROOF DRAIN

RFC RELEASED FOR CONSTRUCTION ROW RIGHT OF WAY REDUCED PRESSURE BACKFLOW ASSEMBLY RPBA

SQUARE FOOT SD STORM DRAIN SS SANITARY SEWER STORM STA STATION SIDEWALK TELEPHONE

> TRUST BLOCK TOP OF CURB/CONCRETE TEMPORARY EROSION AND SEDIMENT

CONTROL TOP OF GRATE TYP TYPICAL UGP UNDERGROUND POWER WATER WATER LEVEL WM WATER METER

WATER VALVE WV APPROXIMATELY PERCENT DELTA

#### **DRAWING CONTENTS:**

CO.1 - CIVIL COVER SHEET

C1.1 - EX. CONDITION, DEMO AND TESC PLAN

C2.1 - HORIZONTAL CONTROL PLAN C2.2 - LOT LAYOUT C3.1 - OVERALL GRADING PLAN

C6.1 - FULL SITE WATER PLAN

C4.1 - FULL SITE STORM DRAINAGE PLAN C5.1 - FULL SITE SEWER PLAN

#### **UTILITIES LOCATE NOTE:**

EXISTING UTILITIES LOCATION SHOWN IN THIS PLAN SET IS BASED ON INFORMATION OBTAINED FROM VARIOUS RECORDS RESEARCH. ASBUILT DATA, AND FIELD MEASUREMENTS. FULLER DESIGNS ASSUMES NO RESPONSIBILITY FOR EXACT LOCATION OF UTILITIES EITHER SHOWN OR NOT SHOWN IN THESE DRAWINGS. CONTRACTOR SHALL VERIFY THE EXACT SIZE, DEPTH, LOCATION, AND ARRANGEMENT OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CALL UNDERGROUND LOCATE AT 811 PRIOR TO PERFORMING CONSTRUCTIONS ACTIVITIES.

PRELIMINARY FOR PERMIT ONLY

# **JACKSON VILLA 4**

SECTION 03 TOWNSHIP 13N RANGE 02W CHEHALIS, WASHINGTON

## **VICINITY MAP**





#### **PROJECT SPECIFICATIONS:**

THE WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR RD, BRIDGE AND MUNICIPAL CONSTRUCTION, 2020 WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) (HEREAFTER "STANDARD SPECIFICATIONS").

ALSO INCORPORATED INTO THESE CONTRACT DOCUMENTS BY REFERENCE ARE:

A. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)

B. CITY RD STANDARDS C. CITY DRAINAGE STANDARDS

D. THE INTERNATIONAL BUILDING CODE (IBC)

CURRENT EDITIONS OF THESE STANDARDS SHALL BE USED WHICH EXIST ON THE DATE OF CONTRACT ACCEPTANCE.

CONTRACTOR SHALL OBTAIN COPIES OF THESE PUBLICATION AT CONTRACTOR'S OWN EXPENSE.

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, TRANSPORTATION, SUPPLIES AND INCIDENTALS REQUIRED TO COMPLETE ALL WORK SHOWN ON THESE DRAWINGS. ONCE WORK IS COMPLETED CONTRACTOR SHALL OBTAIN ACCEPTANCE BY THE COUNTY AND PROJECT ENGINEER.

THE INTENT OF THESE DRAWINGS IS TO PRESCRIBE A COMPLETE PROJECT. OMISSIONS FROM THE DRAWINGS OF DETAIL OF WORK WHICH IS NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING THE OMITTED WORK.

ANY PROPOSED ALTERATIONS BY THE CONTRACTOR AFFECTING THE REQUIREMENTS AND INFORMATION IN THESE DRAWINGS SHALL BE IN WRITING AND WILL REQUIRE APPROVAL OF THE ENGINEER AND INSPECTOR.

#### **WORK IN RIGHT OF WAY:**

CONTRACTOR SHALL OBTAIN A RIGHT OF WAY PERMIT PRIOR TO COMMENCING ANY WORK LOCATED IN RIGHT OF WAY. ALL WORK PERFORMED IN THE RIGHT OF WAY SHALL ADHERE TO DRAWINGS, STANDARD SPECIFICATIONS, AND REQUIREMENTS OUTLINED IN THE RIGHT OF WAY PERMIT.

#### **RECORD DRAWINGS:**

FULLER DESIGNS IS REQUIRED BY THE CITY TO PROVIDE RECORD DRAWING CERTIFICATION PRIOR TO FINAL CITY ACCEPTANCE. FULLER DESIGNS WILL NOT CERTIFY RECORD DRAWINGS WITHOUT INSPECTION OF BELOW GRADE UTILITIES AND STRUCTURES. PRIOR TO BACKFILLING, CONTRACTOR SHALL NOTIFY FULLER DESIGNS OF NECESSARY INSPECTIONS.

CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD AND NOTIFY ENGINEER OR INSPECTOR OF INCONSISTENCIES PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL MAINTAIN ONE SET OF THE CONTRACT DRAWINGS THAT SHALL INCLUDE: ANY ALTERATIONS OR LOCATION OF UNDERGROUND UTILITIES ENCOUNTERED DURING THE PROGRESS OF THE PROJECT, ANY ALTERATIONS MADE TO THE IMPROVEMENTS BEING INSTALLED. MARKED DRAWINGS SHALL BE CLEAR AND LEGIBLE. DRAWINGS SHALL BE MARKED "RECORD DRAWINGS" AND SHALL BE SUBMITTED TO THE ENGINEER UPON PROJECT COMPLETION.

#### **CONTRACTOR LIABILITY NOTE:**

CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY THROUGHOUT PROJECT EXECUTION AND NOT BE LIMITED TO WORKING HOURS. CONTRACTOR SHALL PROGRESS WORK IN A MANOR THAT SHALL INDEMNIFY AND HOLD FULLER DESIGNS HARMLESS FROM ALL LIABILITY IN CONNECTION WITH CONTRACTOR'S PERFORMED WORK.

#### REMOVAL OF UNSUITABLE MATERIALS:

IF UNSUITABLE MATERIALS AS DEFINED BY THE STANDARD SPECIFICATIONS ARE ENCOUNTERED, THIS MATERIAL SHALL BE REMOVED TO THE DEPTH REQUIRED BY THE ENGINEER OR INSPECTOR AND REPLACED WITH SUITABLE MATERIAL.

UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE AND HAULED TO A WASTE SITE OBTAINED BY THE CONTRACTOR. PRIOR TO REMOVAL, CONTRACTOR SHALL NOTIFY PROJECT OWNER SO MEASUREMENT/PAYMENT CAN BE MADE PER TON OF UNSUITABLE MATERIAL REMOVED.

#### **EROSION CONTROL NOTE:**

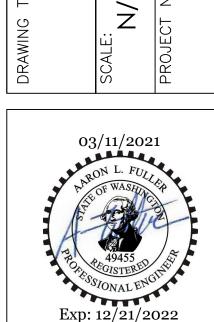
EROSION CONTROL MEASURES ARE NOT LIMITED TO THE ITEMS ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES. NO SILTATION OF EXISTING OR PROPOSED DRAINAGE STRUCTURES WILL BE PERMITTED. CARE SHALL BE TAKEN TO PREVENT MIGRATION OF SOILS TO ADJACENT PROPERTIES. DISTURBED EARTH SHALL BE STABILIZED AS REQUIRED BY THE STANDARD SPECIFICATIONS. INDIVIDUAL DESIGNATED TO MONITOR EROSION CONTROL FACILITIES DURING CONSTRUCTION SHALL HAVE CESCL CERTIFICATION.

#### **GENERAL NOTES:**

CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH ADJACENT PROPERTY OWNERS. DRIVEWAYS AND UTILITY SERVICES SHALL REMAIN ACCESSIBLE AT ALL TIMES.

AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL PRE-CONSTRUCTION STATE OR BETTER UPON COMPLETION OF WORK.

THESE DRAWINGS AND ALL ACCOMPANYING MATERIALS ARE COPYRIGHTED. UNAUTHORIZED COPYING OF THESE DOCUMENTS IS FORBIDDEN WITHOUT THE WRITTEN CONSENT OF FULLER DESIGNS.



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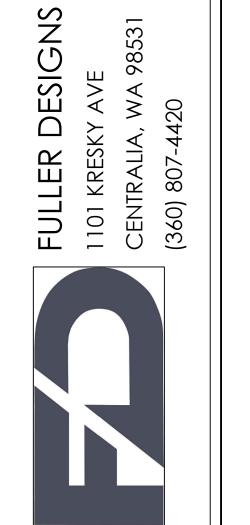
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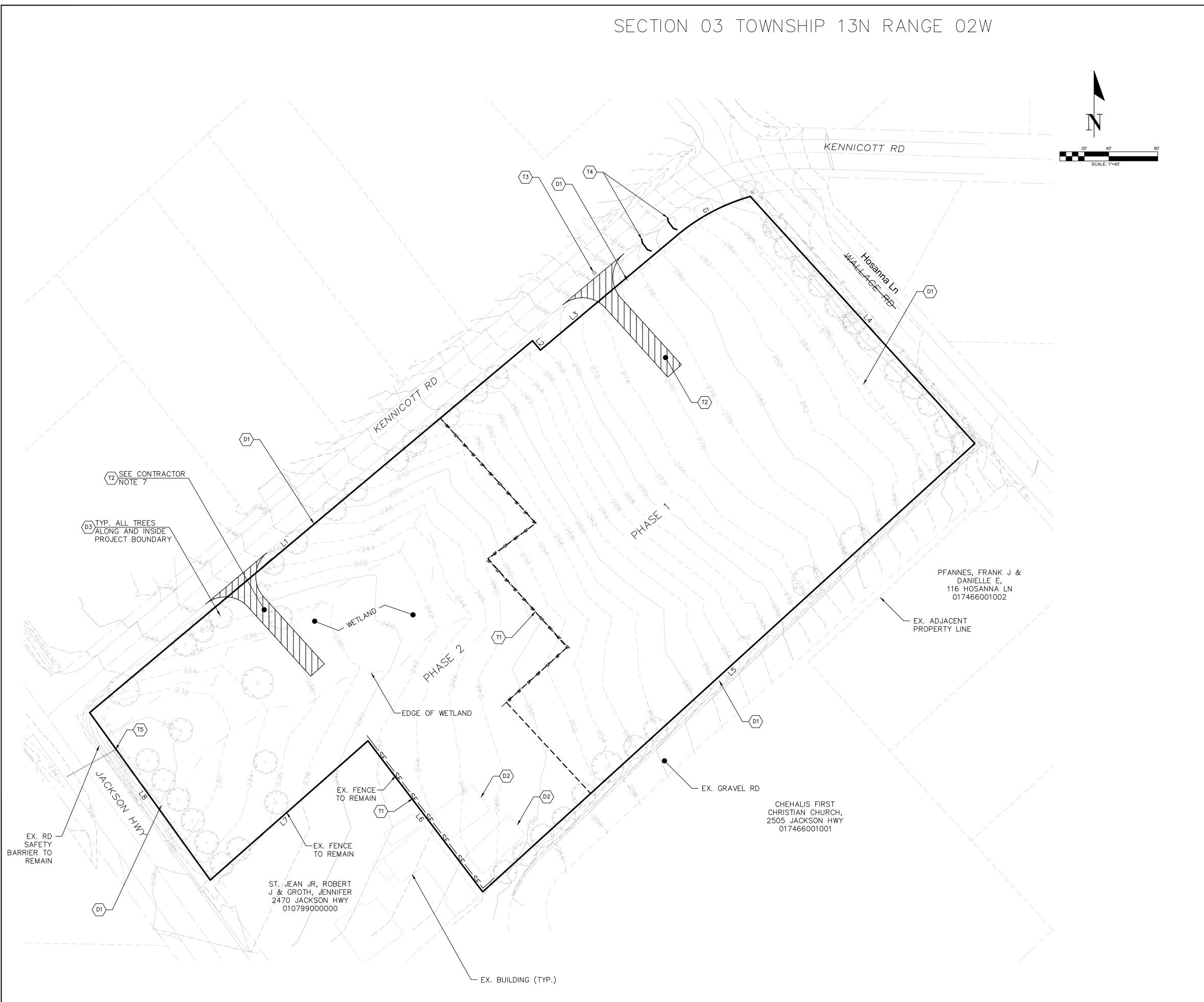
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#### **TESC NOTES:**

- $\langle T1 \rangle$  INSTALL SILT FENCE.
- $\langle T2 \rangle$  install 100' long construction entrance.
- $\langle T3 \rangle$  install inlet protection to ex catch basin.
- T4 INSTALL STRAW BALE BARRIER AS SHOWN. BALES TO BE INSTALLED ALONG EXISTING DITCH SHOWN ON THIS SHEET. BALES WILL BE REMOVED ONCE SITE IS STABILIZED.
- (T5) INSTALL TWO LAYERS OF WATTLES AND A SWATH OF SILT FENCE AROUND THE INLET FOR CULVERT INLET PROTECTION.

#### **DEMOLITION NOTES:**

- $\langle D1 \rangle$  EX. FENCE TO BE REMOVED.
- (D2) EX. STRUCTURE TO BE REMOVED.
- $\langle D3 \rangle$  EX. TREE TO BE REMOVED.

#### NOTES TO CONTRACTOR:

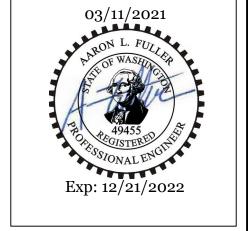
ENTERING WATERWAYS.

- ALL EXPOSED SOIL SURFACES SHALL BE SEEDED WITH AN EROSION CONTROL SEED MIX OR HYDROSEEDED IF NOT WORKED WITHIN 7 CALENDAR DAYS FROM MAY 1 TO SEPTEMBER 30. SOIL SHALL BE COVERED WITHIN 2 DAYS FROM OCTOBER 1 TO APRIL 30.
- 2. SEEDED AREAS WILL BE COVERED WITH MULCH, HAY OR OTHER PROTECTIVE COVERING APPROVED BY THE ENGINEER TO PREVENT WASHOUT DURING RAIN EVENTS.
- 3. CONTRACTOR SHALL APPLY WATER TO GRAVEL SURFACES DURING CONSTRUCTION TO MINIMIZE FUGITIVE DUST.
- 4. ROUTINE INSPECTION AND MAINTENANCE OF ALL INSTALLED EROSION AND SEDIMENT CONTROL BMPS, ESPECIALLY AFTER STORMS, IS REQUIRED.
   5. PERIODIC STREET CLEANING MAY BE NECESSARY TO REMOVE
- ANY SEDIMENT TRACKED OFF THE SITE.

  6. IN THE EVENT PROPOSED BMPS FAIL, APPROPRIATE MEASURES MUST BE TAKEN TO STOP SEDIMENTS FROM
- 7. NO CONSTRUCTION OR DEMOLITION WILL BE ALLOWED IN PHASE 2 AREA UNTIL STATE AUTHORIZATION.

	LINE TABLE	
Line #	Bearing	Length
L1	S49° 58′ 51.00″W	472.03
L2	N40° 01' 09.00"W	10.00
L3	S49° 58' 51.00"W	145.84
L4	N42° 17' 06.00"W	272.52
L5	N47° 40′ 14.69″E	543.52
L6	N37° 13′ 46.00″W	154.81
L7	N48° 33′ 44.00″E	171.73
L8	S35° 44′ 51.00″E	168.43

CUR'	VE TA	BLE
Curve #	Radius	Length
C1	161.44	68.03



PLAN

AND TESC

DEMO

ONDITION,

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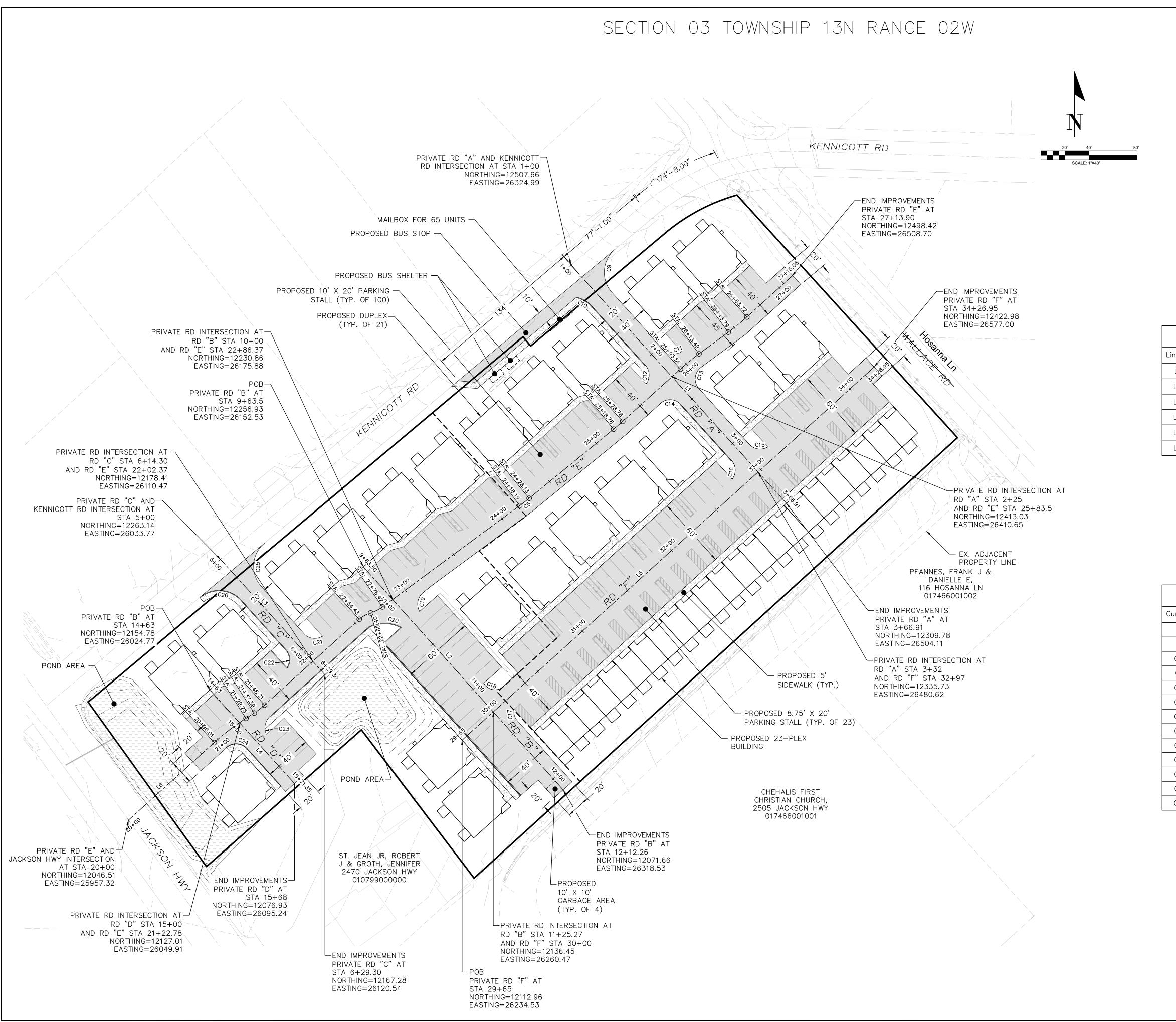
FULLER [1101 KRESK)
CENTRALIA,
(360) 807-44

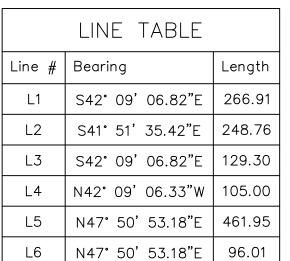
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2 OF 8





CURVE TABLE					
Curve #	Radius	Length			
C5	200.00	9.94			
С9	25.00	40.23			
C10	25.00	15.13			
C11	12.36	16.91			
C12	12.00	16.84			
C13	12.00	20.05			
C14	12.00	18.85			
C15	12.00	16.84			
C16	12.00	16.84			
C17	10.75	9.46			
C18	10.53	18.73			
C19	12.44	17.83			
C20	29.28	28.42			

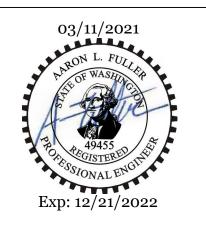
CURVE TABLE						
Curve #	Radius	Length				
C21	12.00	16.84				
C22	12.36	16.91				
C23	12.92	16.00				
C24	12.00	18.85				
C25	25.00	40.23				
C26	25.00	38.31				

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HORIZONTAL CONTROL PLAN

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ACKSON VILLA 4



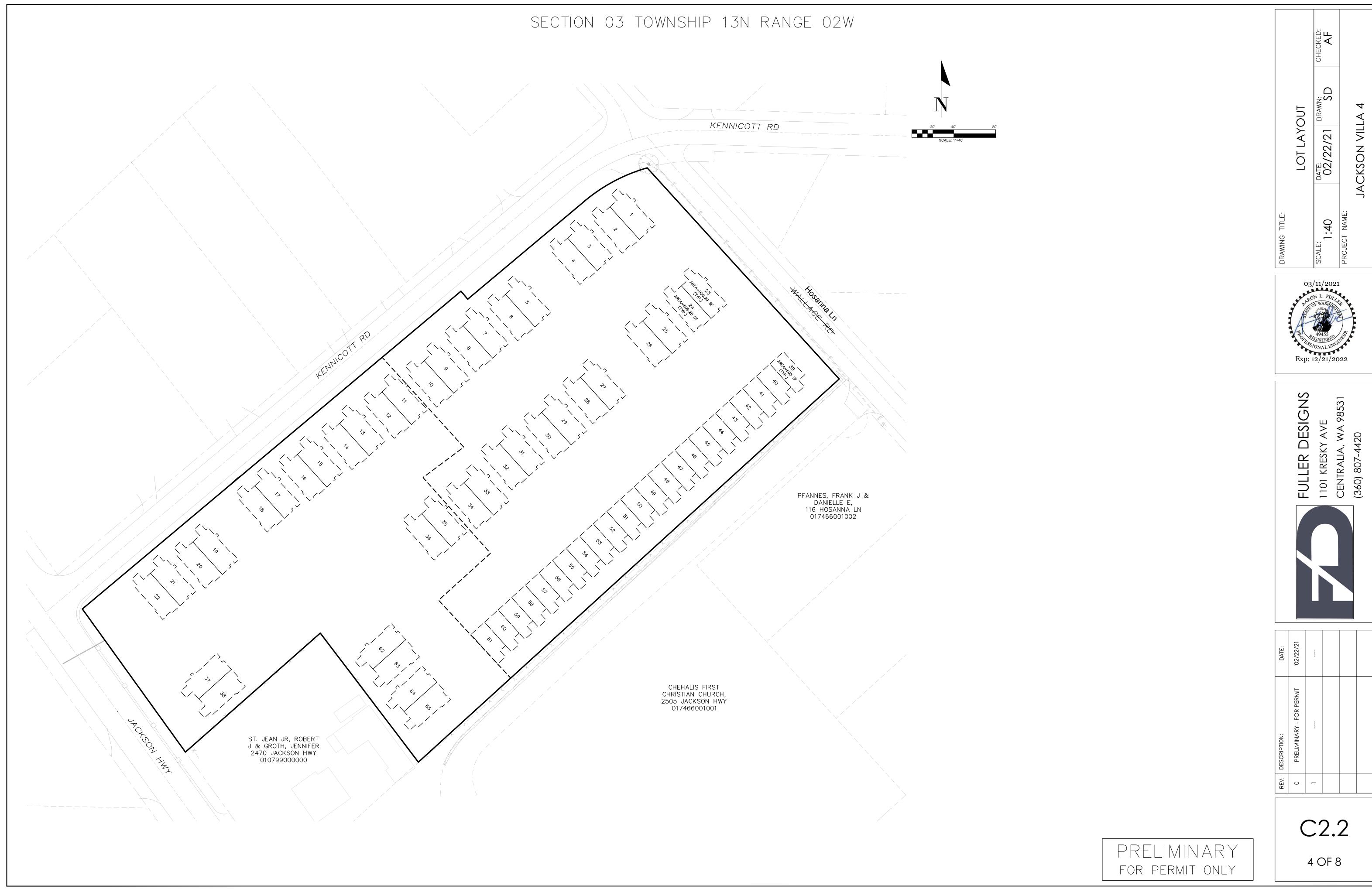
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FULLER DESIGNS
1101 KRESKY AVE
CENTRALIA, WA 98531
(360) 807-4420

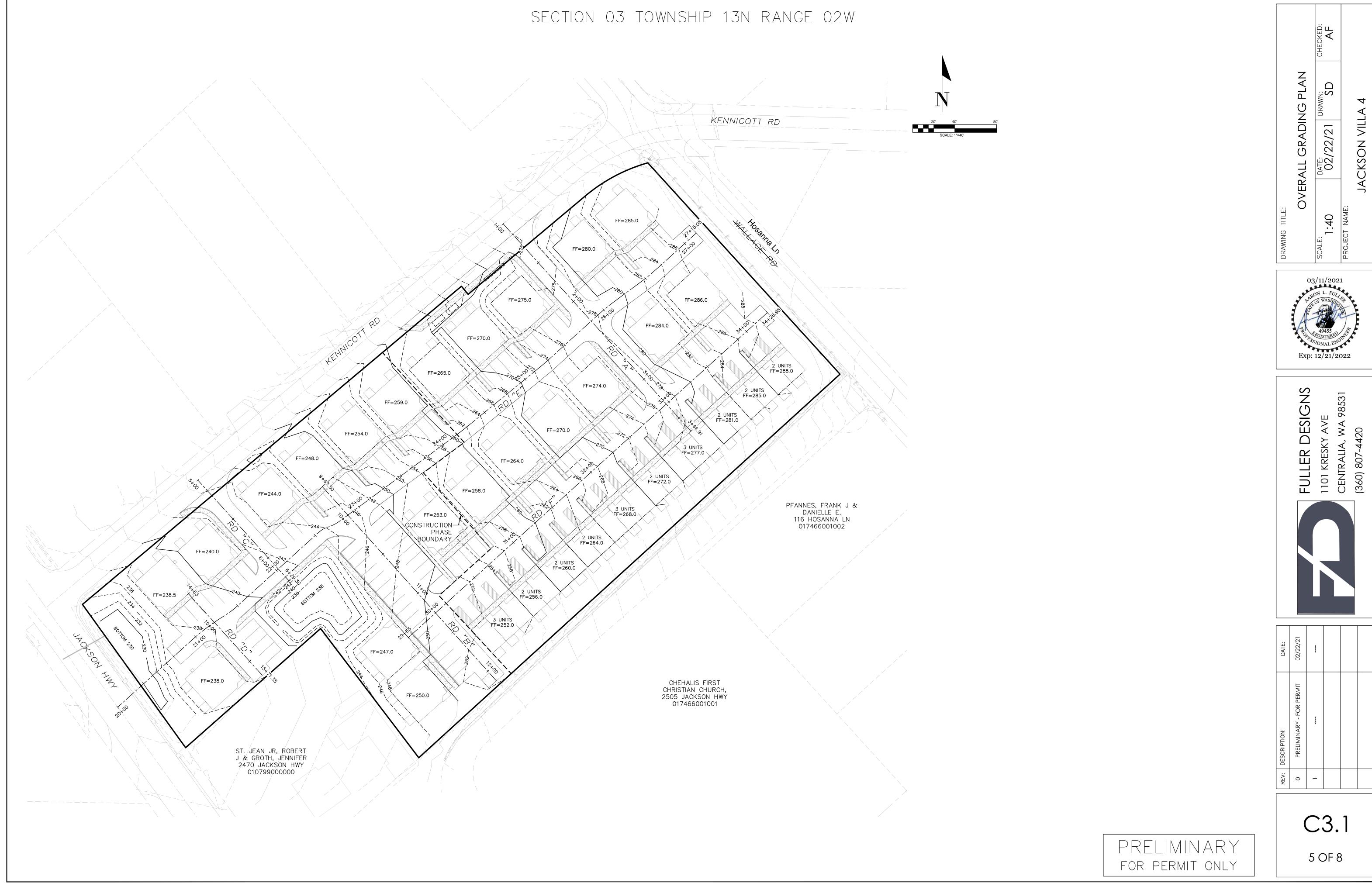
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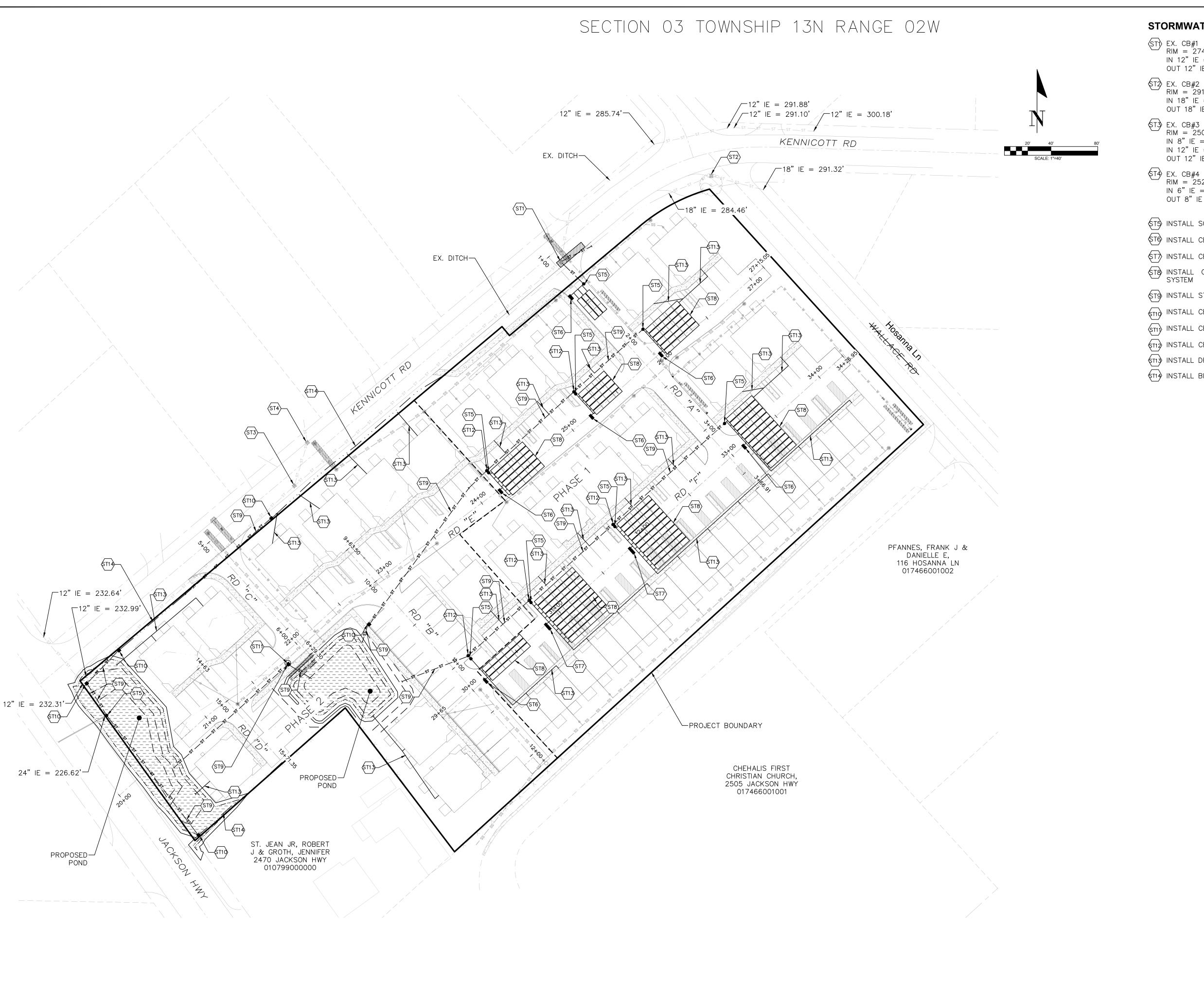
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### **STORMWATER NOTES:**

- IN 8" IE = 247.67 (N) IN 12" IE = 247.62 (NE) OUT 12" IE = 247.47 (SW)
- EX. CB#4 RIM = 252.73 IN 6" IE = 250.93 (S) OUT 8" IE = 250.38 (N)
- \$T\$ INSTALL SOLID LID CONTROL STRUCTURE (TYP OF 9)
- (T) INSTALL CB CONTECH 1 CARTRIDGE STORMFILTER (TYP OF 6)
- \$T\$ INSTALL CB CONTECH 2 CARTRIDGE STORMFILTER (TYP OF 2)
- SYSTEM CONTECH CHAMBERMAXX STORMWATER RETENTION
- (ST9) INSTALL STORM PIPE
- (T10) INSTALL CB TYPE 1 (TYP OF 5)
- (T12) INSTALL CB SOLID LID TYPE 2 (TYP OF 5)
- (T14) INSTALL BIOSWALE DITCH

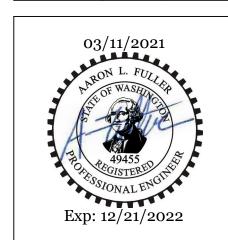


ST) EX. CB#1
RIM = 274.65
IN 12" IE = 272.7 (N)
OUT 12" IE=272.45 (SW)

EX. CB#2 RIM = 291.72 IN 18" IE = 287.99 (SE) OUT 18" IE=288.06 (SW)

EX. CB#3 RIM = 250.17

- (ST1) INSTALL CB GRATE LID TYPE 2 (TYP OF 1)
- (T13) INSTALL DRAIN PIPE



PLAN

STORM DRAINAGE

SITE

FULL

JACKSON VILLA

FULLER DESIGNS 1101 KRESKY /

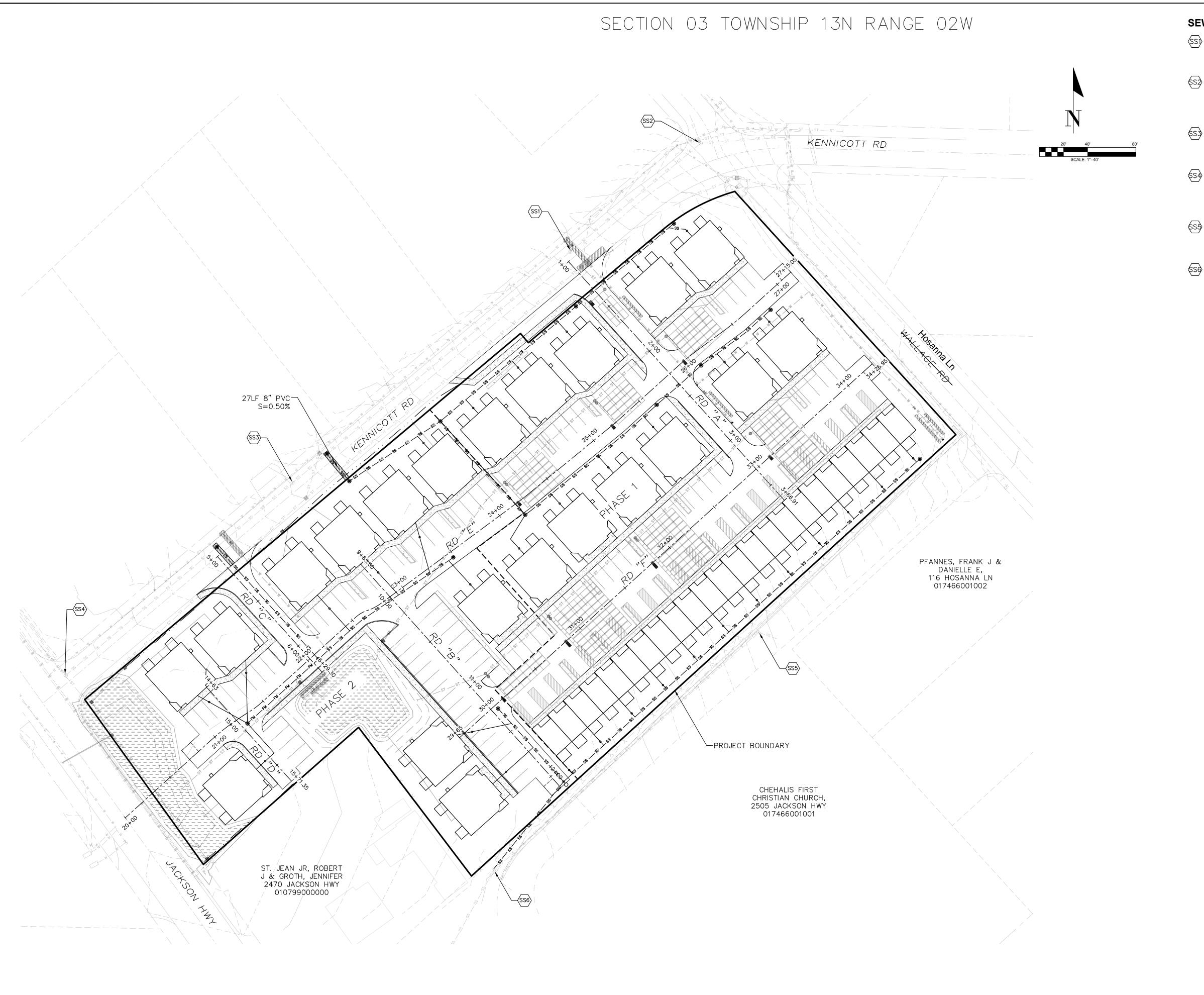
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6 OF 8

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### **SEWER NOTES:**

SST EX. SSMH#1 RIM = 275.32 10" IE = 267.16 (NE) 10" IE = 267.08 (SW)

EX. SSMH#2
RIM = 290.78
10" IE = 284.08 (NW)
6" IE = 284.16 (E)
10" IE = 283.24 (SW)

EX. SSMH#3 RIM = 250.21 10" IE = 243.86 (NE) 10" IE = 243.67 (SW)

EX. SSMH#4

RIM = 236.58

10" IE = 229.95 (NE)

10" IE = 229.77 (NW)

CHANNEL CAPED FL = 230.26 (SE)

EX. SSMH#5 RIM = 270.02 8" IE = 262.42 (E) 8" IE = 262.39 (SW)

EX. SSMH#6 RIM = 252.26 8" IE = 244.15 (NE) 8" IE = 244.05 (SW)

S S S S S JACKSON VILLA

FULL SITE SEWER PLAN

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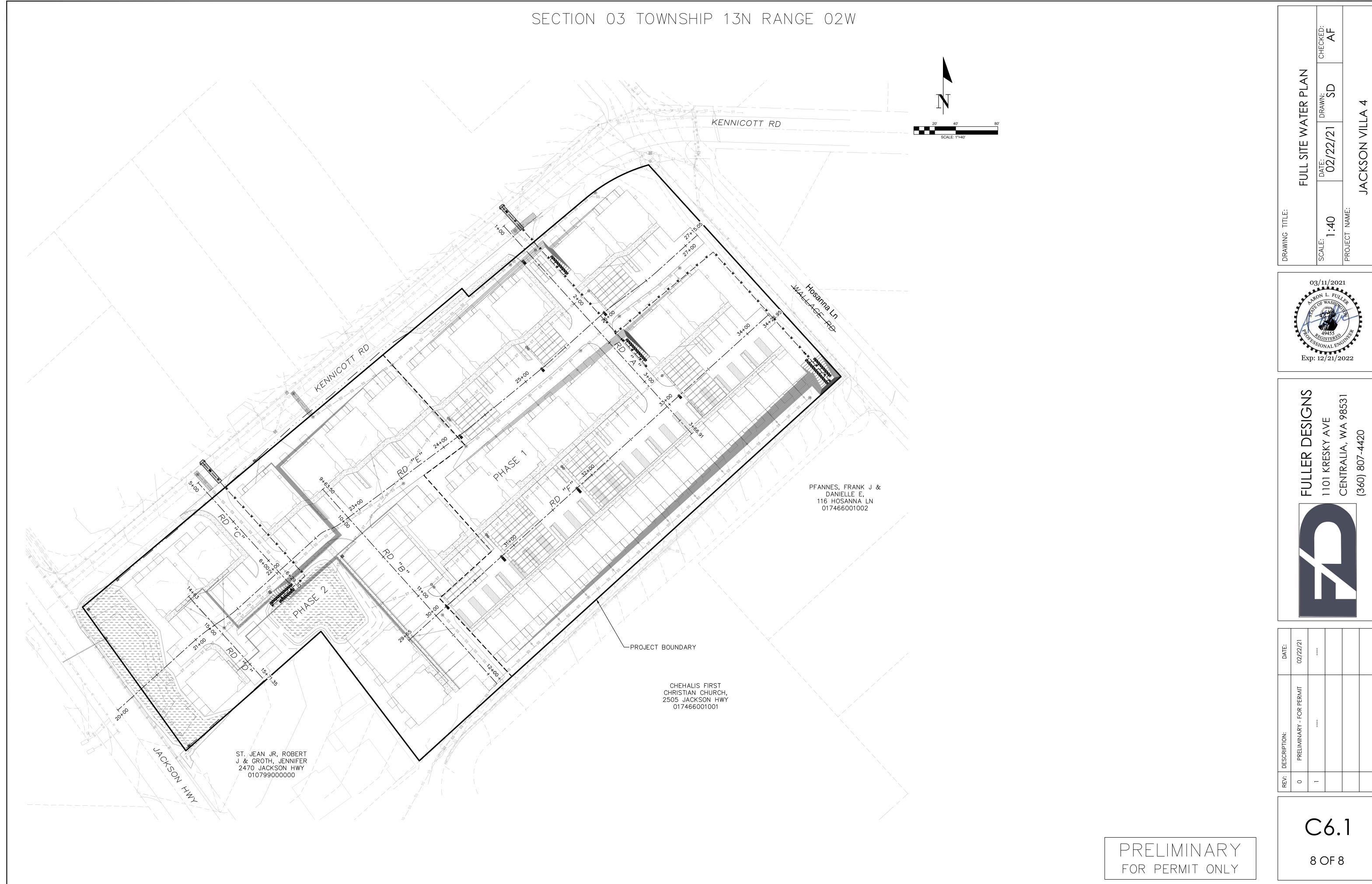


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