PROJECT INFORMATION:

APPLICANT:	NICHOLAS, THOMAS P & CARA L 103 MACRONOVIC RD CHEHALIS, WA 98532
SITE ADDRESS:	1176 SE WASHINGTON AVE, CHEHALIS, WA 98532
PARCEL NUMBER:	005604192001, 005492002000, 005853001000, 005490000000 & 005490001000
ZONING (CITY):	R1 — SINGLE—FAMILY RESIDENTIAL, LOW DENSITY
LOTS:	5 EXISTING & 3 PROPOSED - 2 PHASES
PARKING:	PHASE 1 – 38 REGULAR
	PHASE 2 – 8 REGULAR
SITE SOILS:	SILTY SAND AND CLAYEY SAND
WATER:	CITY MAIN - METERED
SANITARY SEWER:	CITY MAIN - GRAVITY
GRADING:	\pm 1,541 CY NET CUT (PHASE 1) \pm 4,149 CY NET FILL (PHASE 2)

GEOTECHNICAL INFORMATION:

A GEOTECHNICAL REPORT WAS PREPARED FOR THIS PROJECT BY ALL AMERICAN GEOTECHNICAL DATED APRIL 14TH, 2021.

TOPOGRAPHIC INFORMATION:

TOPOGRAPHIC INFORMATION DEPICTED IN THESE DRAWINGS WAS PROVIDED BY GOODMAN LAND SURVEYING. INC.

RECORD OF SURVEY DESCRIPTION:

LOTS 4, 5, 6 AND 7 OF BLOCK 3 AND LOTS 4 AND 5 OF BLOCK 2 OF McCORD & PHILLIP'S ADDITION TO CHEHALIS, RECORDED IN PLAT BK. 1, PAGE 123 AND LOTS 19, 20 AND 21 OF AUST'S ADDITION TO CHEHALIS, RECORDED IN BK. 4 OF PLATS, PG. 35 AND THAT PORTION OF GOV'T LOT 5, SECTION 32, TOWNSHIP 14 NORTH, RANGE 2 WEST. W.M. AS RECORDED IN STATUTORY WARRANTY DEED UNDER A.F.N. 3255397, RECORDS OF LEWIS COUNTY, WASHINGTON.

METHOD OF SURVEY:

FIELD TRAVERSE USING A TRIMBLE FOCUS 35 00DEG00'05" ROBOTIC TOTAL STATION. THIS SURVEY MEETS OR EXCEEDS THE PRECISION AND ACCURACY STANDARDS AS OUTLINED IN W.A.C. 332-130-090.

DESC.

LEGEND:

LINETYPES:

EXISTING	PROPOSED
— X — X —	
——————————————————————————————————————	E
OE	OE
OT	OT
G	— G —
W	— W —
53 FM	53 FM
ST	ST
	SF

LOT LINE EASEMENT FENCING DITCH CULVERT ROAD CENTERLINE RIGHT OF WAY ELECTRICAL UNDERGROUND ELECTRICAL OVERHEAD TELECOMMUNICATION GAS MAIN WATER MAIN SEWER MAIN FORCE MAIN STORM MAIN SILT FENCE

DESC.

SURFACE FLOW

SPOT ELEVATION

SEWER MANHOLE STORM MANHOLE

CATCH BASIN

WELL

VALVE

RPBA

POLE

TREE

HYDRANT

INSPECTION PORT

WATER METER BOX

SYMBOLS:

EXISTING	PROPOSED
1th th	<u>X.X</u> %
×.	
(ST)	(ST)
со	Ø
\bowtie	M
Ø	Y
	-12-14-
	-⊙-
\bigcirc	\odot

HATCH:



DESC. ROAD PAVEMENT CONCRETE SIDEWALK

FLOW DIRECTION ARROW

ABBREVIATIONS:

AC

CL

CY

ΕE

ΕL

FF

FG

FH

FΜ

GB

GM

GV

HE

LF

М

MH

MJ

PC

ΡI

ΡL

SF

SD

SS

ST

TB

W

+

%

FL

ACRES ASPHALT CONCRETE BCR BEGIN CURB RETURN BM BENCHMARK BVCS BEGIN VERTICAL CURVE STATION BEGIN VERTICAL CURVE ELEVATION BCVE CATV CABLE TELEVISION СВ CATCH BASIN CIP CAST IRON PIPE CENTERLINE CORRUGATED METAL PIPE CMP СО CLEAN OUT CUBIC YARD DEGREES DIAMETER DUCTILE IRON PIPE DIP ELECTRICAL END CURB RETURN ECR ELEVATION END VERTICAL CURVE STATION EVCS END VERTICAL CURVE ELEVATION EVCE ΕX EXISTING FINISH FLOOR FINISH GRADE FIRE HYDRAN FLOW LINE FORCE MAIN GAS GRADE BREAK GAS METER GATE VALVE HIGH POINT CALCULATED CURVE VALUE LENGTH LENGTH VERTICAL CURVE LCV LINEAR FEET METER MAN HOLE MECHANICAL JOINT NFC NOT FOR CONSTRUCTION OVER HEAD POWER OHP PVMT PAVEMENT POWER POINT OF CURVATURE POINT OF INTERSECTION PROPERTY LINE POB POINT OF BEGINNING POC POINT OF CONNECTION PRC POINT OF REVERSE CURVATURE ΡT POINT OF TANGENCY PVC POLY-VINYL CHLORIDE RADIUS RCP REINFORCED CONCRETE PIPE RFC RELEASED FOR CONSTRUCTION RET. RETAINING R/W RIGHT OF WAY ROOF DRAIN SLOPE SQUARE FOOT STORM DRAIN SANITARY SEWER STORM STA STATION STEP SEPTIC TANK EFFLUENT PUMP DTL STANDARD DETAIL TELEPHONE THRUST BLOCK TOP OF CURB/CONCRETE TEMPORARY EROSION AND SEDIMENT CONTROL TESC ΤG TOP OF GRATE T/RIM TOP OF RIM TYP TYPICAL UGP UNDERGROUND POWER WATER WATER METER WM WV WATER VALVE APPROXIMATELY PERCENT DELTA

DRAWING CONTENTS:

CO.1 - CIVIL COVER SHEET

- C1.1 EX. CONDITION, DEMO AND TESC PLAN
- C1.2 TESC NOTES AND DETAILS C2.1 – PAVEMENT LAYOUT PLAN
- C2.2 LOT LAYOUT PLAN
- C2.3 GRADING PLAN
- C3.1 ROAD "1" PLAN AND PROFILE
- C3.2 ROAD CONSTRUCTION NOTES AND DETAILS C4.1 – FULL SITE STORM DRAINAGE PLAN
- C4.2 STORM LINE "1"AND "2" PLAN AND PROFILE
- C4.3 STORM LINE "3" PLAN AND PROFILE
- C4.4 DRAINAGE NOTES AND DETAILS
- C5.1 SEWER LINE PHASE 1 & 2 PLAN AND PROFILE C5.2 - SEWER NOTES AND DETAILS
- C6.1 WATER LINE PHASE 1 & 2 PLAN AND PROFILE
- C6.2 WATER NOTES AND DETAILS

NICHOLAS WASHINGTON AVE

SECTION 32 TOWNSHIP 14N RANGE 02W CHEHALIS, WASHINGTON

EXHIBIT C, APRIL 7, 2022 PRELIMINARY CIVIL PLANS (NOT FINAL), PAGE 1 OF 16





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.

APPROVED FOR CONSTRUCTION DATE PUBLIC WORKS DEPARTMENT OR DESIGNATED CONSULTANT

APPROVAL EXPIRES:



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.

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С0.

1 OF 16



TEMPORARY EROSION AND SEDIMENTATION CONTROL (TESC) NOTES:

- T1 INSTALL SILT FENCE. SEE TEMPORARY SILT FENCE DETAIL IN SHEET C1.2, DWG. NO. 3-4.
- T2 USE EXISTING GRAVEL ROAD AS CONSTRUCTION ENTRANCE. SEE STABILIZED CONSTRUCTION ENTRANCE DETAIL IN SHEET C1.2, DWG. NO. 3-2.
- T3 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. SEE DETAIL IN SHEET C1.2, DWG. NO. 3-6.
- $\langle T4 \rangle$ INSTALL TWO LAYERS OF WATTLES AND A SWATH OF SILT FENCE AROUND THE INLET FOR CULVERT INLET PROTECTION. SEE DETAIL IN SHEET C1.2, DWG. NO. 3-5.

DEMOLITION NOTES:

- $\langle D1 \rangle$ EXISTING FENCE TO BE REMOVED.
- $\langle D2 \rangle$ EXISTING TREES TO BE REMOVED.

D3 EXISTING PIPES UNDER EXISTING ENTRANCE ROAD TO BE REMOVED.

D4 EXISTING ENTRANCE ROAD TO BE REMOVED.

 $\langle D5 \rangle$ EXISTING CONCRETE PAD TO BE REMOVED.

D6 EXISTING SANITARY CLEANOUT TO BE REMOVED.

 $\langle D7 \rangle$ EXISTING SPRING TO BE FILLED.

EROSION CONTROL NOTES:

- 1. 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 SITE.
- 6. IN THE EVENT PROPOSED BMPS FAIL, APPROPIATE MEASURES MUST BE TAKEN TO STOP SEDIMENTS FROM ENTERING WATERWAYS.



APPROVED FOR CONSTRUCTION DATE BY PUBLIC WORKS DEPARTMENT OR DESIGNATED CONSULTANT







SECTION 32 TOWNSHIP 14N RANGE 02W CHEHALIS, WASHINGTON



APPROVED FOR CONSTRUCTION BY _____ DATE _____ PUBLIC WORKS DEPARTMENT OR DESIGNATED CONSULTANT



ROAD CENTERLINE LINE TABLE					
LINE #	DIRECTION	LENGTH			
L1	N90° 00' 00.00"E	50.00			
L2	N44° 44' 50.86"E	224.04			
L3	N45° 15' 51.54"W	243.55			
L4	S44° 44' 08.46"W	80.00			
L5	S45° 15' 51.54"E	233.42			

PHASE 1

PAVEMENT EDGE LINE TABLE					
LINE #	DIRECTION	LENGTH			
L6	N48° 36' 48.30"E	32.86			
L7	N44° 44' 07.78"E	202.93			
L8	N45° 15' 24.37"W	30.16			
L9	N44° 44' 08.46"E	14.99			
L10	N45° 15' 51.54"W	221.79			
L11	S44° 44' 08.46"W	20.00			
L12	N45° 15' 51.54"W	13.00			
L13	S44° 44' 08.46"W	100.00			
L14	S45° 15' 51.55"E	13.00			
L15	S44° 44' 08.46"W	20.00			
L16	S45° 15' 51.54"E	221.79			
L17	N44° 44' 08.46"E	15.00			
L18	S45° 15' 58.46"E	0.21			
L19	S44° 44' 08.43"W	92.93			
L20	N40° 14' 07.32"W	10.37			
L21	S44° 51' 00.22"W	1.90			
L22	S44° 44' 08.46"W	30.00			

PAVEMENT EDGE CURVE TABLE						
URVE #	DELTA	RADIUS	LENGTH	TANGENT		
C1	90° 27' 16.00"	5.00	7.90	5.04		
C2	90° 00' 00.00"	5.00	7.85	5.00		
C3	60° 00' 12.89"	10.00	10.47	5.77		
C4	95° 01' 44.30"	20.00	33.17	21.84		
C5	90° 00' 00.00"	15.00	23.56	15.00		
C6	90° 00' 00.00"	15.00	23.56	15.00		
C7	90° 00' 00.00"	15.00	23.56	15.00		
C8	90° 00' 00.00"	15.00	23.56	15.00		

PAVEMENT EDGE LINE TABLE					
LINE #	DIRECTION	LENGTH			
L23	S45° 15' 51.54"E	187.00			
L26	S86° 00' 38.58"W	2.95			
L27	N85° 20' 03.64"W	30.64			
L28	N5° 32' 18.21"E	36.00			
L29	S84° 27' 41.79"E	17.87			
L30	N24° 48' 58.40"E	2.71			
L31	N67° 43' 04.04"W	16.86			
L32	N22° 16' 55.96"E	36.00			
L33	S67° 43' 04.04"E	34.62			
L34	N34° 31' 52.48"E	5.55			
L35	S55° 28' 07.52"E	2.00			

PHASE 2

PAVEMENT EDGE CURVE TABLE							
CURVE #	DELTA	RADIUS	LENGTH	TANGENT			
C9	86° 58' 24.72"	20.00	30.36	18.97			
C10	70° 43' 19.81"	3.00	3.70	2.13			
C11	92° 32' 02.44"	3.00	4.85	3.14			
C12	77° 45' 03.48"	20.00	27.14	16.12			







		PHASE 1 POINTS TABLE		PHASE 1 POINTS	TABLE	SECTION 32 TOWNSHIP 14N RANGE 02W
POINT No. DESCRIPTION ELEV. NORTHING EASTING 1 TIE-INTO EX PVMT 242.50 11259.29 11056.57	POINT No. 97	DESCRIPTION ELEV. NORTHING EASTING PAVEMENT 260.00 11420.19 11206.78	POINT No.	DESCRIPTION ELE	Image: Northing Easting 07 11372.15 11175.38	CHEHALIS WASHINGTON
2 TIE-INTO EX PVMT 242.52 11261.03 11054.52	98	PAVEMENT 248.50 11330.42 11114.20	276	V DITCH CL 252	00 11346.34 11149.82	
3 TIE-INTO EX PVMT 242.10 11282.64 11045.36	99	PAVEMENT 248.50 11326.88 11114.27	277	V DITCH CL 249	09 11321.51 11125.24	4 GRAVEL
4 HE-INTO EX PVM1 241.81 11288.03 11042.01 5 TIE-INTO EX PVMT 240.49 11302.82 11029.49	100	BACK TOP CURB 240.85 11304.49 11031.22 BACK TOP CURB 241.70 11296.58 11037.92	300	GRADING EXTENT 240 GRADING EXTENT 240	00 11308.29 11024.87 00 11309.36 11036.97	
6 PAVEMENT EDGE 240.35 11304.13 11030.83	102	BACK TOP CURB 243.50 11289.68 11052.32	302	GRADING EXTENT 240	73 11301.37 11044.56	6 • 340 • 345 • 346 • 345 • 346 • 345 • 346 • 345 • 350 • 351 • 352 • 356 • 357 • 356 • 357 • 356 • 357 • 366 • 364 • 364
7 PAVEMENT EDGE 241.20 11296.25 11037.53 8 PAVEMENT EDGE 242.99 11289.17 11052.26	103	BACK TOP CURB 245.01 11295.45 11066.66 BACK TOP CURB 247.50 11315.73 11086.76	303	GRADING EXTENT 241	44 11298.89 11049.76 00 11301.25 11055.12	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
9 PAVEMENT EDGE 244.51 11255.17 11052.20	104	BACK TOP CURB 247.30 11313.73 11000.10 BACK TOP CURB 249.50 11340.18 11110.97	304	GRADING EXTENT 242	00 11328.65 11058.85	204 5 PROPOSED DITCH - 205 CENTERLINE
10 PAVEMENT EDGE 244.96 11281.01 11081.20	106	BACK TOP CURB 251.99 11361.46 11132.04	306	GRADING EXTENT 240	00 11324.28 11045.56	
11 PAVEMENT EDGE 247.00 11300.30 11100.32 12 PAVEMENT EDGE 247.00 11315.38 11087.12	107	BACK TOP CURB 260.10 11425.82 11189.02 BACK TOP CURB 261.45 11435.25 11184.76	307	GRADING EXTENT 239	73 11329.77 11032.34 16 11353.24 11011.49	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
13 PAVEMENT EDGE 249.00 11339.83 11111.33	109	BACK TOP CURB 261.24 11447.38 11172.53	309	GRADING EXTENT 239	13 11373.36 10991.64	
14 PAVEMENT EDGE 249.00 11323.49 11123.30	110	BACK TOP CURB 260.76 11475.50 11144.17	310	GRADING EXTENT 238	63 11387.92 10976.22	
15 PAVEMENT EDGE 251.00 11357.47 11128.81 16 PAVEMENT EDGE 251.00 11340.49 11140.14	111	BACK TOP CURB 260.26 11501.14 11118.30 BACK TOP CURB 257.50 11566.86 11051.92	311	GRADING EXTENT 238	18 11401.94 10960.39 48 11425.16 10938.65	
17 PAVEMENT EDGE 253.00 11357.21 11156.71	113	BACK TOP CURB 256.55 11571.06 11041.53	313	GRADING EXTENT 239	00 11449.33 10916.86	
18 PAVEMENT EDGE 253.00 11376.58 11147.83	114	BACK TOP CURB 255.50 11566.77 11031.41	314	GRADING EXTENT 238	96 11475.08 10891.17	
19 PAVEMENT EDGE 255.00 11391.89 11162.92 20 PAVEMENT EDGE 255.00 11373.93 11173.27	115	BACK TOP CURB 259.90 11622.38 11053.43 BACK TOP CURB 258.11 11608.53 11039.70	315	GRADING EXTENT 239 GRADING EXTENT 240	16 11480.42 10891.97 00 11491.71 10898.28	PROPOSED TRASH AREA
21 PAVEMENT EDGE 258.00 11396.74 11195.88	117	BACK TOP CURB 258.30 11615.92 11032.25	317	GRADING EXTENT 240	00 11499.53 10904.24	4 PROPOSED ASPHALT ROAD AND PARKING 7 30 112 48 43 111 48 43 111 48 48 48 48 48 48 48 48 48 48
22 PAVEMENT EDGE 258.00 11412.66 11183.51 23 PAVEMENT EDGE 259.53 11424.05 11189.55	118	BACK TOP CURB 257.24 11604.05 11020.49 BACK TOP CUBB 256.00 11592.33 11008.87	318	GRADING EXTENT 241	47 11506.82 10911.04 00 11513.81 10010.08	$\begin{array}{c} 4 \\ 8 \\ \end{array}$
23 PAVEMENT EDGE 259:33 11424:93 11109:33 24 PAVEMENT EDGE 260:00 11410:63 11209:64	120	BACK TOP CURB 254.00 11578.02 10994.70	319	GRADING EXTENT 242 GRADING EXTENT 243	40 11521.47 10932.88	119 59 114 257 PROPOSED GRASS 159 8 258 222 21+131 4375
25 PAVEMENT EDGE 261.75 11425.18 11224.05	121	BACK TOP CURB 252.09 11563.87 10980.68	321	GRADING EXTENT 244	73 11526.96 10943.42	
26 PAVEMENT EDGE 261.75 11442.77 11206.29 27 PAVEMENT EDGE 261.75 11446.41 11202.62	122	BACK TOP CURB 249.75 11544.17 10961.16 BACK TOP CURB 249.50 11535.02 10970.40	322	GRADING EXTENT 245	96 11526.56 10953.03 54 11533.70 10963.36	3 6 EX. SHOP
28 PAVEMENT EDGE 262.27 11453.47 11202.61	124	BACK TOP CURB 248.00 11521.25 10956.73	324	GRADING EXTENT 246	62 11538.12 10955.00	
29 PAVEMENT EDGE 260.95 11435.60 11185.11 20 DAVEMENT EDGE 200.75 11435.60 11185.11	125	BACK TOP CURB 242.50 11258.92 11056.90	325	GRADING EXTENT 246	46 11543.49 10952.07	
JU PAVEMENT EDGE 263.75 11464.09 11212.92 31 PAVEMENT EDGE 263.75 11475.85 11201.05	126 127	BACK TOP CURB 245.46 11280.64 11081.54 BACK TOP CURB 247.50 11299.96 11100.69	326	GRADING EXTENT 247	114 11548.65 10955.67 96 11556.72 10967.07	
32 PAVEMENT EDGE 260.75 11447.70 11173.03	128	BACK TOP CURB 249.39 11321.81 11122.34	328	GRADING EXTENT 251	65 11572.38 10984.02	2 PROPOSED ASPHALT ROAD AND PARKING
33 PAVEMENT EDGE 263.75 11493.56 11183.06 34 PAVEMENT EDGE 264.50 44470.04 44470.04	129	BACK TOP CURB 251.65 11341.38 11141.72 BACK TOP CURB 256.00 14277.00 14177.10	329	GRADING EXTENT 253	30 11587.44 10997.45 63 11603.49 14040.00	5 8 PROPOSED 17 17 17 17 17 17 17 17 17 17
34 PAVEMENT EDGE 261.30 11479.24 11169.10 35 PAVEMENT EDGE 261.00 11479.98 11168.35	130	BACK TOP CURB 250.00 11377.38 11177.40 BACK TOP CURB 258.50 11396.39 11196.23	330	GRADING EXTENT 254	83 11603.48 11010.88 85 11619.40 11029.62	6 122 122 04 122 0378 2 248 323 323 89 89
36 PAVEMENT EDGE 262.75 11494.26 11182.35	132	BACK TOP CURB 260.50 11410.28 11209.99	332	GRADING EXTENT 258	00 11623.00 11038.41	
37 PAVEMENT EDGE 262.76 11502.58 11174.29 38 PAVEMENT EDGE 260.29 11475.82 11144.59	133	BACK TOP CURB 262.25 11424.82 11224.40 SIDEWALK 240.84 11307.73 11035.01	333	GRADING EXTENT 259	.21 11628.46 11046.04 80 11632.32 11054.95	
39 PAVEMENT EDGE 262.75 11525.09 11151.62	151	SIDEWALK 241.70 11299.80 11041.74	335	GRADING EXTENT 260	12 11636.83 11058.15	
40 PAVEMENT EDGE 260.50 11510.91 11137.56	152	SIDEWALK 243.76 11294.91 11054.46	336	GRADING EXTENT 261	70 11650.77 11065.39	9
41 PAVEMENT EDGE 260.00 11514.46 11133.93 42 PAVEMENT EDGE 261.75 11528.72 11147.95	153	SIDEWALK 245.01 11298.98 11063.12 SIDEWALK 247.50 11319.25 11083.21	337	GRADING EXTENT 262	49 11664.24 11075.49 00 11668.29 11080.99	9 9 • 319
43 PAVEMENT EDGE 259.80 11501.41 11118.69	155	SIDEWALK 249.50 11343.74 11107.44	339	GRADING EXTENT 263	00 11668.24 11085.58	
44 PAVEMENT EDGE 261.75 11556.99 11119.32	156	SIDEWALK 251.99 11364.98 11128.51	340	GRADING EXTENT 264	00 11669.93 11090.42	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
45 PAVEMENT EDGE 259.75 11542.75 11105.27 46 PAVEMENT EDGE 259.00 11547.06 11100.88	157	SIDEWALK 251.95 11371.34 11134.79 SIDEWALK 255.00 11395.87 11159.82	341	GRADING EXTENT 265	00 11667.20 11098.80 00 11659.79 11105.94	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
47 PAVEMENT EDGE 260.75 11561.30 11114.92	159	SIDEWALK 258.46 11418.64 11182.38	343	GRADING EXTENT 267	96 11635.09 11113.61	
48 PAVEMENT EDGE 258.48 11542.35 11077.37	160	SIDEWALK 263.88 11456.98 11220.37	344	GRADING EXTENT 270	75 11624.69 11133.84	
49 PAVEMENT EDGE 260.75 11591.02 11085.08	161	SIDEWALK 264.96 11457.01 11227.44	345	GRADING EXTENT 271	42 11613.31 11146.50	
30 TRVENENTEDOL 230.30 T1370.73 T1070.30	102	SIDEWALK 264.00 11467.72 11216.63	340	GRADING EXTENT 2/1	83 11606.70 11150.09	
50 FAVENERT EDGE 250.00 FIS70.73 FIS70.30 51 PAVEMENT EDGE 258.00 11577.49 11070.19	162	SIDEWALK 264.00 11467.72 11216.63 SIDEWALK 262.04 11532.26 11154.28	346	GRADING EXTENT 271 GRADING EXTENT 272	83 11606.70 11150.09 .21 11598.79 11159.34	4
50 FAVEMENT EDGE 250.00 FIS70.73 FIS70.30 51 PAVEMENT EDGE 258.00 11577.49 11070.19 52 PAVEMENT EDGE 259.75 11591.73 11084.36 53 PAVEMENT EDGE 257.00 11567.22 11052.27	162 163 164	SIDEWALK 264.00 11467.72 11216.63 SIDEWALK 262.04 11532.26 11154.28 SIDEWALK 261.34 11563.49 11119.99 SIDEWALK 247.52 11522.93 10954.87	346 347 348 349	GRADING EXTENT 277 GRADING EXTENT 272 GRADING EXTENT 272 GRADING EXTENT 270	83 11606.70 11150.09 .21 11598.79 11159.34 18 11595.06 11166.04 80 11586.56 11170.62	$\begin{array}{c} 304 \\ 4 \\ 4 \\ 4 \\ 2 \\ \end{array}$
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	STREET CONSTRUCTION GENERAL NOTES
1.	All workmanship and materials will be in accordance with City Standards and the most recent edition of the State of Washington Standard Specifications for RD, Bridge and Municipal Construction.
2.	The contractor will be responsible for all traffic control in accordance with MUTCD. Prior to disruption of any traffic, traffic control plans shall be prepared and submitted to the city for approval. No work will commence until all approved traffic control is in place.
3.	All curb and gutter, street grades, sidewalk grades, and any other vertical and/or horizontal alignment will be staked by an engineering or surveying firm capable of such work.
4.	Where new asphalt joins existing, the existing asphalt shall be cut to a neat vertical edge and tacked with Asphalt Emulsion Type CSS-1 in accordance with the Standard Specifications. The new asphalt will be feathered back over existing to provide for a seal at the saw cut location and the joint sealed with grade AR-4000W paving asphalt.
5.	Compaction of subgrade, rock and asphalt will be in accordance with the Standard Specifications.
6.	Form and subgrade inspection by the Public Works Department is required before pouring concrete. Twenty—four hours (one work day) advance notice is required for form inspection.
7.	Testing and sampling frequencies are described in the Public Work Standards.
8.	The Public Works Department will install and oversee the installation of street name and regulatory signs at the contractor's/developer's expense. All street name and regulatory signs will be requested and approved by the city prior to the start of construction.

Drawing Not to Scale

SECTION 32 TOWNSHIP 14N RANGE 02W CHEHALIS, WASHINGTON

CEMENT CONC CURB & GUT	RETE FER
APPROVED BY	DWG. NO.
1. Prule	2-7
yames & michoo	REVISED DATE
CITY ENGINEER	1/02/2003

STORMWATER NOTES:

 $\left< \begin{array}{c} \mathsf{P1} \end{array} \right>$ DETENTION POND. SEE SHEET C4.2 FOR DETAILS

EX-ST1 RAISE/EXTEND EXISTING TOP OF LID ELEVATION TO MATCH PROPOSED ROAD GRADE

PHASE 2

- (ST29) 49 L.F. OF 6" PERFORATED PIPE INFILTRATION SYSTEM PHASE 2 - LOT 3 ROOF DRAINAGE
- (T30) 49 L.F. OF 6" PERFORATED PIPE INFILTRATION SYSTEM PHASE 2 - LOT 3 ROOF DRAINAGE

PHASE 1 STORM LINE "1"

- ST1 12" HDPE STORM LINE SEE SHEET C4.2 FOR DETAILS
- ST27 410 L.F. OF 10" HDPE PIPE PHASE 1 - LOT 2 ROOF DRAINAGE
- ST28 5 ±24 L.F. OF 4" HDPE PIPE PHASE 1 – LOT 1 ROOF DRAINAGE

STORM LINE "2"

- ST2 CB CONTECH 2 CARTRIDGE STORMFILTER. SEE SHEET C4.2 FOR DETAILS
- ST3 CATCH BASIN SEE SHEET C4.2 FOR DETAILS
- ST4 12" HDPE STORM LINE SEE SHEET C4.2 FOR DETAILS
- ST5 12" HDPE STORM LINE SEE SHEET C4.2 FOR DETAILS
- ST6 CATCH BASIN SEE SHEET C4.2 FOR DETAILS
- _____ SEE SHEET C4.2 FOR DETAILS
- ST7 12" HDPE STORM LINE SEE SHEET C4.2 FOR DETAILS
- ST8 CATCH BASIN SEE SHEET C4.2 FOR DETAILS

- ST9 12" HDPE STORM LINE SEE SHEET C4.2 FOR DETAILS
- _
- STID CATCH BASIN SEE SHEET C4.2 FOR DETAILS
- (STI1) 12" HDPE STORM LINE SEE SHEET C4.2 FOR DETAILS
- CATCH BASIN SEE SHEET C4.2 FOR DETAILS
- (ST13) 12" HDPE STORM LINE SEE SHEET C4.2 FOR DETAILS
- STI4 CATCH BASIN SEE SHEET C4.2 FOR DETAILS

STORM LINE "3"

- ST15 12" HDPE STORM LINE SEE SHEET C4.2 FOR DETAILS
- CB CONTECH 2 CARTRIDGE STORMFILTER. SEE SHEET C4.2 FOR TOP OF RIM EL. SEE SHEET C4.5 FOR DETAILS.
- STIT 12" HDPE STORM LINE SEE SHEET C4.2 FOR DETAILS
- STIN CATCH BASIN SEE SHEET C4.2 FOR TOP OF RIM EL. SEE SHEET C4.5, DETAIL 3-1 FOR DETAILS.
- (ST19) 12" HDPE STORM LINE SEE SHEET C4.2 FOR DETAILS
- CATCH BASIN SEE SHEET C4.2 FOR TOP OF RIM EL. SEE SHEET C4.5, DETAIL 3–1 FOR DETAILS.
- ST21 12" HDPE STORM LINE SEE SHEET C4.2 FOR DETAILS
- T22 CATCH BASIN SEE SHEET C4.2 FOR TOP OF RIM EL. SEE SHEET C4.5, DETAIL 3–1 FOR DETAILS.
- T23 12" HDPE STORM LINE SEE SHEET C4.2 FOR DETAILS
- ST24 CATCH BASIN SEE SHEET C4.2 FOR TOP OF RIM EL. SEE SHEET C4.5, DETAIL 3-1 FOR DETAILS.
- ST25 8" HDPE STORM LINE SEE SHEET C4.2 FOR DETAILS
- ST26 CATCH BASIN SEE SHEET C4.2 FOR TOP OF RIM EL. SEE SHEET C4.5, DETAIL 3-1 FOR DETAILS.

N 11267.922 E 11360.450

APPROVED FOR CONSTRUCTION BY DATE

PUBLIC WORKS DEPARTMENT OR DESIGNATED CONSULTANT

 STORMWATER NOTES: ★ STORMWATER NOTES: ★ STORMWATCH PROPOSED ROAD GRADING LEVATION TO MATCH PROPOSED ROAD GRADE PROPOSED POND SEE SHEET C2.3 FOR GRADING ELEVATIONS DEPTH= 3' BOTTOM AREA= 1,188 SF 3:1 SIDE SLOPES STORM LINE "1" ★ A L.F. OF 12" HDPE STORM PIPE ★ CATCH BASIN WITH SILT TRAP TEE DETAIL IN SHEET C4.4. ★ CATCH BASIN WITH SILT TRAP TEE DETAIL IN DWG. NO. 3-1, SHEET C4.4. ★ A L.F. OF 12" HDPE STORM PIPE 	DRAWING TITLE: STORM LINE "1" AND "2" PLAN AND PROFILE SCALE: 1:30 DATE: 03/15/22 DRAWN:
 CATCH BASIN SEE CATCH BASIN WITH SILT TRAP TEE DETAIL IN DWG. NO. 3-1, SHEET C4.4 CATCH BASIN SEE CATCH BASIN WITH SILT TRAP TEE DETAIL IN DWG. NO. 3-1, SHEET C4.4 CATCH BASIN SEE CATCH BASIN WITH SILT TRAP TEE DETAIL IN DWG. NO. 3-1, SHEET C4.4 CATCH BASIN SEE CATCH BASIN WITH SILT TRAP TEE DETAIL IN DWG. NO. 3-1, SHEET C4.4 STID SEE CATCH BASIN SEE CATCH BASIN WITH SILT TRAP TEE DETAIL IN DWG. NO. 3-1, SHEET C4.4 STID SEE CATCH BASIN SEE CATCH BASIN WITH SILT TRAP TEE DETAIL IN DWG. NO. 3-1, SHEET C4.4 STID CATCH BASIN SEE CATCH BASIN WITH SILT TRAP TEE DETAIL IN DWG. NO. 3-1, SHEET C4.4 STID CATCH BASIN SEE CATCH BASIN WITH SILT TRAP TEE DETAIL IN DWG. NO. 3-1, SHEET C4.4 STID CATCH BASIN SEE CATCH BASIN WITH SILT TRAP TEE DETAIL IN DWG. NO. 3-1, SHEET C4.4 	FULLER DESIGNS 1101 KRESKY AVE CENTRALIA, WA 98531 (360) 807-4420
	ESCRIPTION: DATE: DATE: ISSUED FOR CONSTRUCTION 03/15/22

STORM DRAINAGE INSTALLATION GENERAL NOTES

- All workmanship and materials shall be in accordance with City Standards and the most current copy of the WSDOT/APWA Standard Specifications for RD, Bridge and Municipal Construction.
- 2. Temporary erosion/pollution measures shall be required for the duration of the project.
- 3. The contractor must comply with all permits and other requirements of the City or other governing authority or agency.
- 4. A preconstruction meeting shall be held with the City prior to the start of stakina.
- 5. All storm sewer mains, appurtenances and retention/detention areas shall be staked for grade and alignment by an engineering or surveying firm capable of performing such work. All vertical control shall be established using the 1988 USGS Datum. Staking shall be inspected by the City prior to the start of construction and shall be maintained throughout construction.
- 6. Storm drain pipe shall meet the following requirements (use only those which apply):
- A. Plain concrete pipe conforming to AASHTO M 86, Class 2. B. reinforced concrete pipe conforming to AASHTO M 170. C. PVC pipe conforming to ASTM D 3034 SDR 35, ASTM F 794 or
- ASTM F 679. Type 1 with joints and gaskets conforming to ASTM
- 3212 and ASTM F 477. D. Ductile iron pipe conforming to AWWA C 151, thickness class as shown on plans.
- 7. Special structures, oil/water separators and outlet controls shall be installed per plans and manufacturers recommendations.
- 8. Provide traffic control plan(s) as required in accordance with MUTCD.
- 9. Call the Underground Location Center at 1–800–424–5555 a minimum of 48 hours prior to any excavation.
- 10. Where connections require "field verifications", connection points will be exposed by the contractor and fittings field verified 48 hours prior to starting construction.
- 11. All Storm lines will be high-velocity cleaned and pressure tested in accordance with Division 7 of the WSDOT Standard Specifications prior to paving in conformance with the above-referenced specifications. (See Note 1). Hydrant flushing of lines is not an acceptable cleaning method.
- 12. Testing of the Storm main will include Television inspection of the main at the contractor's expense. Immediately prior to tv inspection enough water will be run down the line to flush it clean. Acceptance of the line will be made after tv inspection tape has been reviewed and approved by the inspector. A water test of all manholes is also required. Testing will take place after all underground utilities are installed and compaction of the roadway subgrade is completed.

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PUBLIC WORKS DEPARTMENT OR DESIGNATED CONSULTANT

SECTION 32 TOWNSHIP 14N RANGE 02W CHEHALIS, WASHINGTON

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WATER MAIN INSTALLATION GENERAL NOTES

. All workmanship and material will be in accordance with the City Standards and the most recent copy of the WSDOT/APWA Standrad Specifications for RD, Bridge and Municipal Construction, American Water Works Association (AWWA) Standards and ANSI/NSF Standard 60 or 61.

2. A pre-construction meeting will be held with the Public Works Department prior to the start of construction.

- 3. Gate valves will be resilient wedge, NRS (Non-Rising Stem) with 0-ring seals. Valve ends will be mechanical joint or ANSI flanges. Valves will conform to AWWA 509–80. Valves will be Mueller, M & H, Kennedy, Clow R/W or Waterous Series 500. Existing valves and all valves installed directly to and connected to a portion of the active water system are to be operated by city employees only.
- 4. Fire hydrants will be installed every 200' M & H Series 929, and be equipped w/ Storz Adaptors. Hydrants will be installed in accordance with the most recent version of the Uniform Fire Code. Hydrants will be bagged and the connecting gate valves left closed until the system has been approved. Hydrants must be painted with sunburst yellow high-grade enamel after installation.
- 5. All lines will be chlorinated and tested in conformance with the above referenced specifications (see Note1).
- 6. All pipes and services will be installed with continuous tracer tape placed twelve (12) to eighteen (18) inches under the proposed finished subgrade. The marker will be of plastic non-biodegradable, metal core, or backing marked "WATER" that can be detected by a standard metal detector. Tape will be Terra Tape "D" or approved equal. In addition to tracer tape, toning wire will be installed over all pipe and services. Toning wire will be UL listed, type UF, fourteen (14) gauge solid coated copper wire, taped to the top of the pipe to prevent movement during backfilling and laid loose enough to prevent stretching and damage before being bought up and tied off at the valve operating nut or valve box. If the operating nut is not easily accessible from the ground surface, the copper wire will be tied off at the valve box in such a way that the wire is easily accessible from the ground surface. Two (2) feet of slack will be provided to allow for connection to the locator.
- A 1-lb magnesium anode will be buried with the pipe every 1,000 linear feet maximum for cathodic protection of the toning wire. Toning wire splices and connections to anodes will join wires both mechanically and electrically and will employ epoxy resin or heat-shrink tape insulation. Toning wire will be tested prior to acceptance of the pipe system. A written notice from the contractor to the city must be received two (2) business days prior to when testing is required.
- 7. The contractor will provide traffic control plan(s) as required in accordance with MUTCD.
- 8. All water mains will be staked for grades and alignment by an engineering or surveying firm capable of performing such work. Staking will be maintained throughout construction.
- 9. All service line and water valve locations will be marked on the face of the adjacent curb with "W" or "WV" embossed 1/4-inch into the concrete.
- 10. All water system connections serving buildings or properties with domestic potable water, fire sprinkler or irrigations systems will be comply with the minimum backflow prevention requirements established by the Department of Health (DOH) and the City Cross-Connection Control Program.
- 11. Call Utilities Underground Location Center at 811 a minimum of two (2) business days prior to any excavations.
- 12. The City will be notified five (5) business days prior to scheduling a water system shutdown. The city's Water Division will perform all water system shutdowns. When connections require "field verification", connection points will be exposed by the contractor and fittings verified by the city two (2) business days prior to the distribution of shutdown notices. Customers involved with or affected by water service interruptions will be notified at least forty-eight (48) hours in advance. Shutdowns will not be permitted on Fridays, weekends, or holidays without written authorization from the Director of Public Works.
- 13.When connecting to an existing waterline where a new valve is <u>not</u> to be installed, the existing valve must be pressure tested to the Public Works Standards by the contractor prior to connection. If an existing valve fails to pass the test, the contractor will make necessary additional provisions to test the new line prior to connecting to the existing system or will install a new valve. New lines will not be connected to the existing system until all required tests have been passed.

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