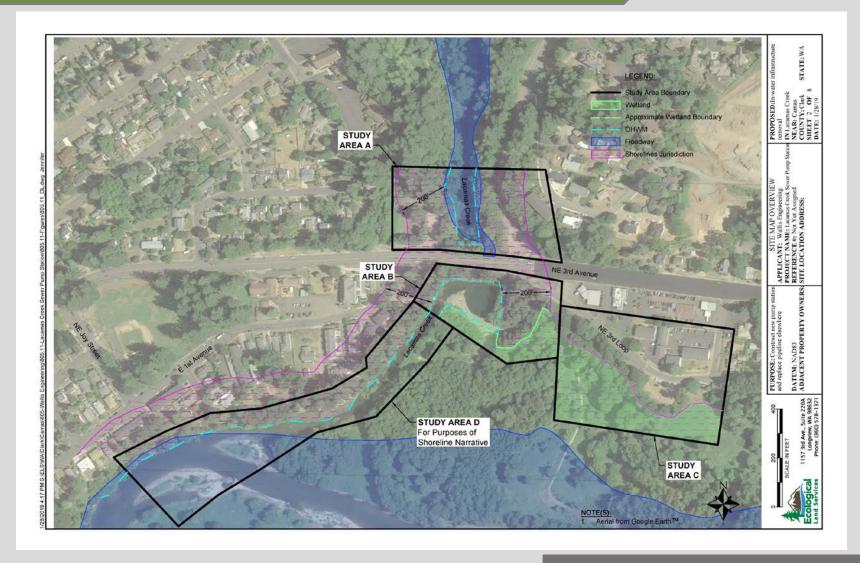


LACAMAS CREEK SANITARY SEWER PUMP STATION

Shorelines Substantial Development Permit Meeting
July 2019

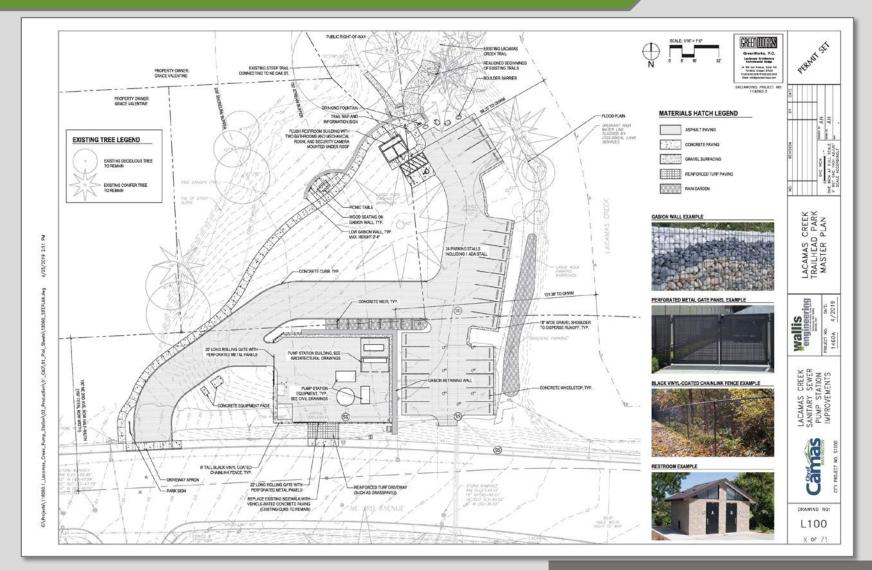
PROJECT AREA



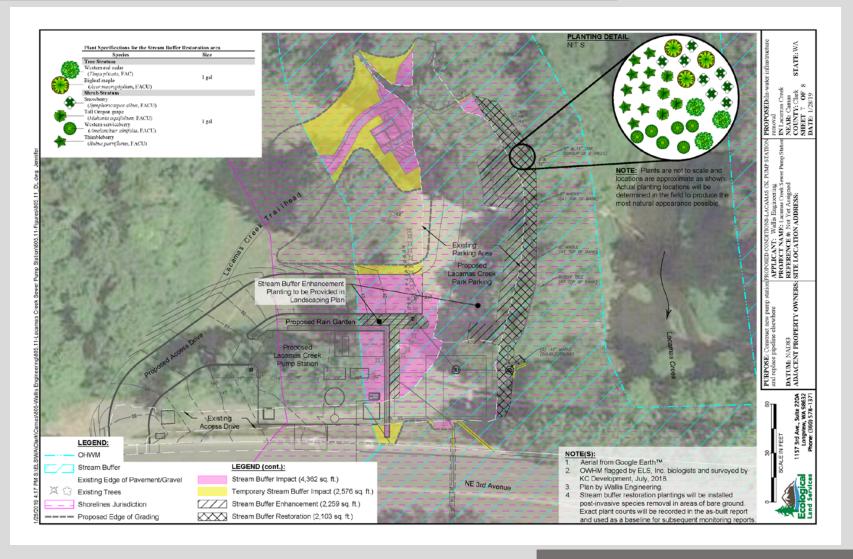
STUDY AREA "A"



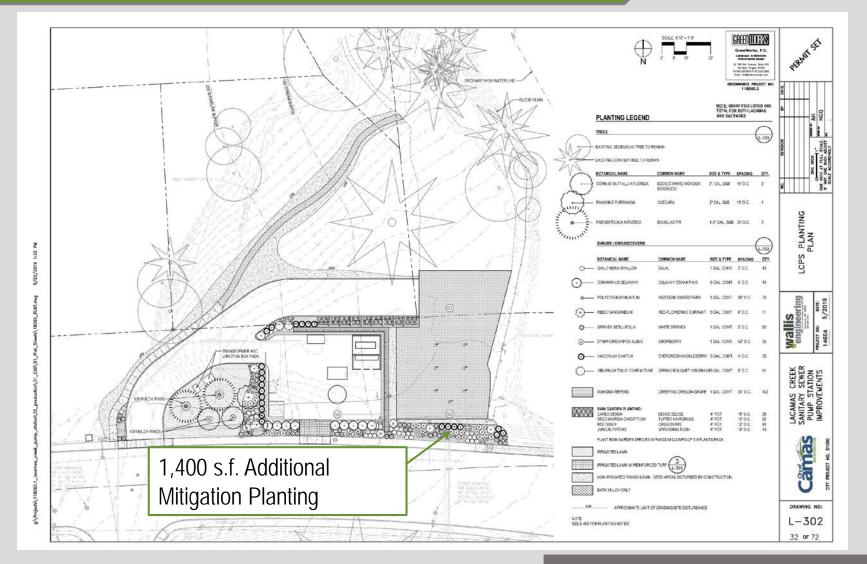
PROPOSED LACAMAS CREEK TRAILHEAD PARK MASTER PLAN



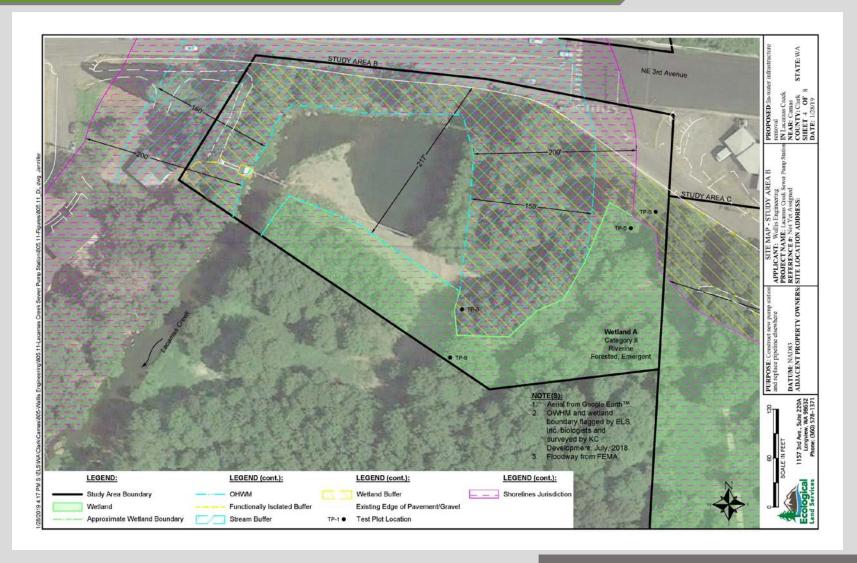
LACAMAS CREEK TRAILHEAD PARK: MITIGATION PLAN



LACAMAS CREEK TRAILHEAD PARK: PHASE 1 PLANTING PLAN

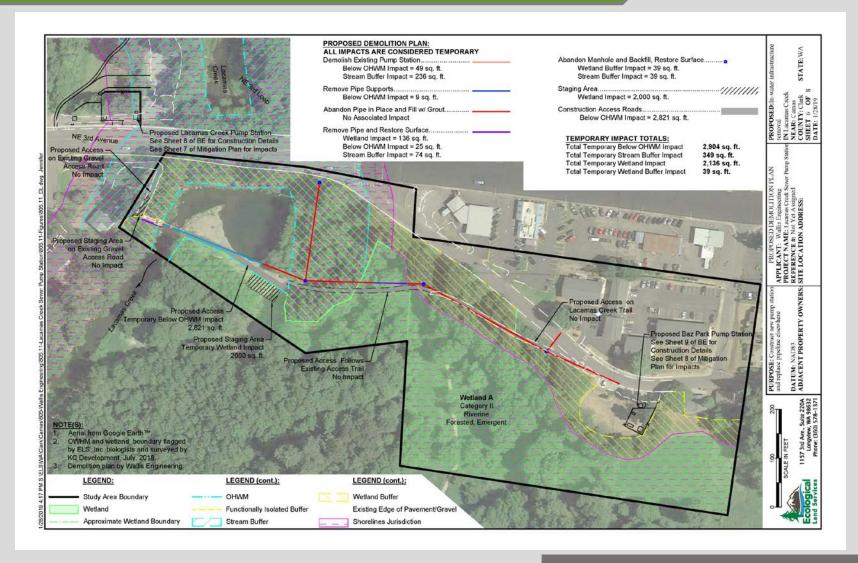


STUDY AREA 'B'



LACAMAS CREEK SANITARY SEWER PUMP STATION

PIPELINE IMPROVEMENTS



SEWER 'A'

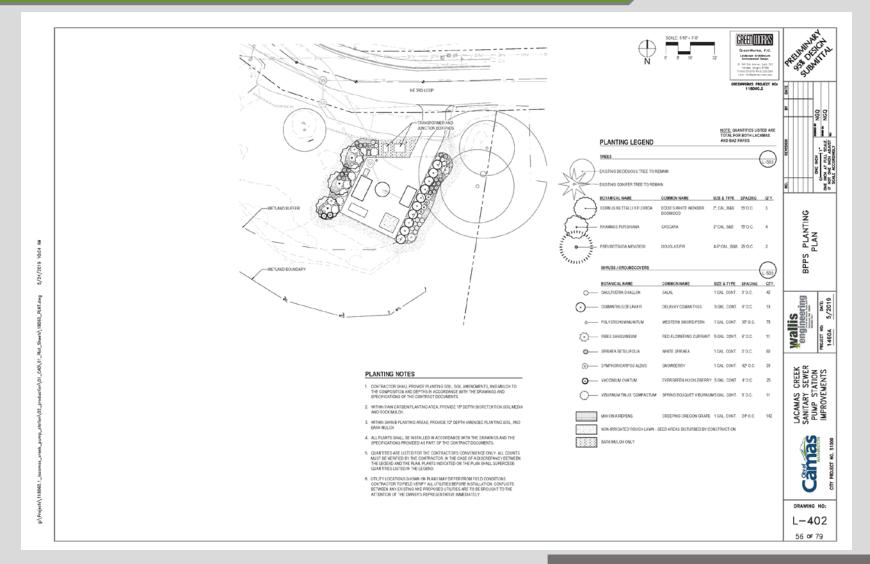


LACAMAS CREEK SANITARY SEWER PUMP STATION

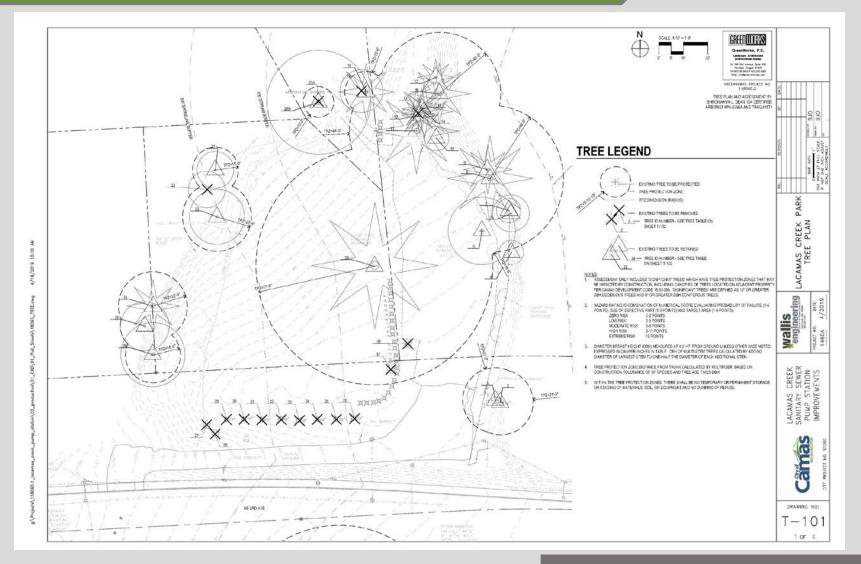
STUDY AREA 'C'



BAZ PARK LANDSCAPE PLAN



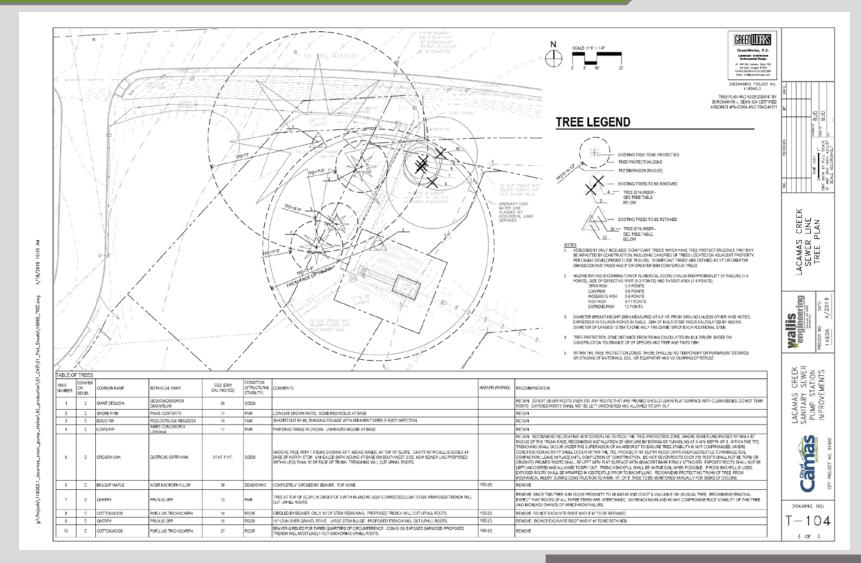
TREE SURVEY - LACAMAS CREEK TRAILHEAD



TREE SURVEY - LACAMAS CREEK TRAILHEAD

TREE	CONFER				CONDITION		HAZARD	GREENWORKS	П		
HAMPED	COD	COMMON NAME	BOTANICAL NAME	SIZE (DBH)	(STRUCTURAL STABILITY)	COMMENTS	(RATING)	RECOMMENDATION GreenWarks, P.C. Lenkungs Freimmarie Judge Freimmarie Judge			
1	-	ID NUMBER NOT USED						Entermental Design 34 NV 24 Annua Sate CO	Ш		
2	D	BIGLEAF MAPLE	ACER MACROPHYLLUM	17	FAIR	#2 AND #3 ARE CODDMINIANT STEMS OF SAME TREE. ABNOBINAL BARK PATTERNS MAY INDICATE DECAY IN STEMS NO COAKS EVIDENT BUT HEAVY MY COVER MAY BE CONCEALING ANY ON GROUND. SOURCING REVEALED NO OBVIOUS DECAY COLUMN.		For this day \$250. AND SECTION AND NOVITOR FRETAN AND NOVITOR			
3	D	BICLEAF MAPLE	ACER MACROPHYLLUM	17	FAIR	THIS TREE SHOULD BE RE-EVALUATED ONCE CANOPY LEAFS OUT. MORE INDEPTH TESTING (DRILLING, BONIC TOMOGRAPHY) MAY BE HELPFUL IF DESIRE IS TO RETAIN TREE.		GREENWORKS PROJECT NO:	u u	Т	Ī
4	D	NOT SIGNIFICANT TREE	Process and the same of the sa	8	1741	PART DELTE CONTROL TO TO TESTINA TIESES		118060.2	8	Ш	
	-								+	+	ł
5	D	ORECON WHITE OAK	QUERCUS GARRYANA	22	000D.	WELL+EALED WOUNDS AT 3" HT AND BELOW.		RETAIN. PROVIDE TREE PROTECTION ZONE AS GHOWN ON PLANS PRIOR TO START OF CONSTRUCTION.	â		Į
	D	OREGON WHITE CAK	QUERCUS GARRYANA	12	FAIR	THEE LOCATED AT TOP OF EIDOP OFFENDOING OFFEN, INMERIOUS SIMIL COMING ON TRUMK WITH MOCKATE COLUMN OF INFERNAL DECK WIN THEFEN ED OF SYNDRIGH, HEARLY WIN COPER ORSCURES INSECTION OF POOR THE AREA OF SUBSERILANDS GOLDAY SENDRIGH, LOCK OF FOLLAGE MEANS CHAPPY-HEALTH CANNOT BE REMEMBED FOR OTHER BOAS OF INTERNAL, DICKY, THE TIERS BOAD OF BE FOLLAULATED OFFE CHAPGES INFERENT LOSE TO TREES LOCATION AND LEAK, IF IT WERE TO FAIL IT WOULD MOST LIKELY FAIL USTS INTO THE CREEK (LOW TARGET BATTING).		RETAIN AND MONITOR	NON		
	D	NOT SIGNIFICANT TREE		8			_		8		
	С	DOUGLAS FIR	PSEUDOTSUGA MENZIESII	48	GOOD	SUPPRESSED BY 49		RETAIN			
9	С	DOUGLAS FIR	PSEUDOTSUGA MENZIESII	35	G00D	SUPPRESSED BY #8.		RETAIN			
	D	NOT SIGNIFICANT TREE		8							
11	С	DOUGLASFIR	PSEUDOTSUGA MENZIESII	44	600D			RETAIN		$^{+}$	Ì
12	С	DOUGLAS FIR	PSEUDOTSUCA MENZIESII	17	FAIR	SUPPRESSED BY IND. SELF-CORRECTED LEAN.		RETAIN	2		
13	с	WESTERN RED CEDAR	THUJA PLICATA	19	FAIR	DECAYED STUB ON SEIGLE WITH CENTRAL DOLLMIN OF DECAY, TOP SOME SUPPRESSED BY #11 AND #15.	YES (9)	REMOVE FOR CONDITION ALTHOUGH THUM PLUFAT CAN REMAIN STANDING WITH CENTRIA, COLUMN OF DECAY, THIS TREES PLUFCINED TO THE TABLE MERGER THAN GENERATING IN SECRET HIGH ACCORDING TERMS (AREADY ONE LELEWING A DECAY CHILD FIRE STANDARD TO THE THEE. MORE INVESIVE TESTING INFLINIOSCINC TOMOSPAPHY) SHOULD BE USED TO GIVE MORE NIFO ON EXTENT OF INTERNAL, DECAY AND TRECKNESS OF STERM WALL.	Γ	i	
14	C	DOUGLASFIR	PSEUDOTSUGA MENZIESII	28	G000	SELF-CORRECTED LEAN. ROOTED UNDER #15		RETAIN			١
15	С	WESTERN RED CEDAR	THUJA PLICATA	25	G000			RETAIN			
16	С	DÖUĞLAŞFIR	PSEUDOTSUGA MENZIESII	40	000D	TREE AT CREST OF SLOPE, SWELLING ON UPHILL SIDE AT BASE OF TRUNK APPEARS TO CONTAIN OLD PHAEOLUS SCHMEINTZII CONK. NO OTHER CONKS OR RESINOSUS OBSERVED.		RETAIN AND MONITOR			ĺ
17	C	DOUGLASFIR	PSEUDOTSUGA MENZIESII	20	G000D	LOW CROWN RATIO, AT CREST OF SLOPE, SUIGHT SELF-CORRECTED LEAN.	-	RETAIN.			,
18	C	DOUGLASFR	PSEUDOTSLIGA MENZIESII	28	G00D	SUPPRESSED ON NORTH SIDE BY TREES UPHILL (OFF-SITE)	_	RETAIN		(į
19	D	OREGON OAK	QUERCUS GARRYANA	18	POOR	TOP GONE, DECAYED STUB AT 15' HT. LOTS OF PRUNING CUTS NOT WELL-HEALED, LARGE NUMBERS OF SMALL YOUNG FUNGUS ON STEM. TREE LOCATED ON SLOPE ABOVE LAWN AREA.	YES (7)	REMOVE FOR CONDITION.			
20A	D	BIGLEAF MAPLE	ACER MACROPHYLLUM	18+29	FAIR	SURVEY ORCUPED STEEM AS ONE TIRES ACTIVALLY TWO TREES ONE MANE, WITH TWO STEEM AND ONE SWALLER OWN GOOWNED IN CLOSE PROMISHIN. THE MARKE HAS TWO COORDINANT STEEMS WITH NOULDED BARK PRITY ACHING MICLISIONIUM BAD CARTY WITH CALLUSED BOOSE. NO DEVOUS DECAY COLUMN REVIELED BY SOURBING WITH MALLET, ORCUPED INSPECTION LIBRED BY HEAVY OF ROWNEY.	YES (8)	EITHER REMOVE OR DO CROWN REDUCTION TO REQUIZE PROBABILITY OF FAILURE IF BESIRE IS TO RETAIN TIME. TREE IS ON SLOPE ABOVE LAWN (140H TARREST RATING FREQUENTLY COCUPED) AND AND HER TREE HAS RECENTLY FAILED TO THE COUNT OF THIS ONE.	L		
203	D	GARRY OAK	QUERCUS GARRYANA	10	FAIR	THE DAK OF THIS GROUP HAS NO DRIVIOUS HEALTH PROBLENS, BUT IS LEANING SIGNIFICANTLY ON THE SLOPE ABOVE THE LAWN AREA. HEAVY MY INFESTATION OF GROUND MAKES DETECTION OF MY FUNDAL FRUITING BODIES ON ROOTS IMPOSSIBLE, RE-SHALURIE MINEN CANDRY LEAFS OUT FOR ANY SIGNIS OF ROOT ROT.		RETAIN AND RE-EVALUATE, CROWN REDUCTION TO REDUCE WEIGHT.		engineering	
	D	BIGLEAF MAPLE	ACER MACROPHYLLUM	12	GOOD	SELF-CORRECTED LEAN DUE TO SLOPE. HEAVY IVY INFESTATION.		RETAIN	U	38	
22	D	BIGLEAF MAPLE	ACER MACROPHYLLUM	12	FAIR	TOP IS GONE, HEAVY MY INFESTATION. CAVITY AT ROOT FLARE ON DOWNHILL SIDE, TREE ON SLOPE ABOVE LAWN AREA.		REMOVE		45	į
23	D	DIGLEAF MAPLE	ACER MACROPHYLLUM	12+16	GOOD	CODOMINANT AT 2 HT. NO CRACK OR SPLIT AT INCLUSION LINE, HEAVY IVY INFESTATION.		RETAIN	7	有豆	į
24	C	DOUGLASFIR	PSEUDOTSUGA MENZIESII	30	G00D	HEAVY IVY INFESTATION.		RETAIN	1 %	έE	
25	D	BIGLEAF MAPLE	ACER MACROPHYLLLUM	16	FAIR	HEAVY MY INFESTATION OBSCURING BASE. LEANS 15" TOWARDS LAWN ON STEEP SLOPE, RECOMMEND RE EVALUATION ONCE CANDRY LEARS OUT.		RETAIN AND MONITOR	2	ķ	
26	D	BIGLEAF MAPLE	ACER WACROPHYLLLUM	14+15	FAIR	COCOMINANT STRUK AT 7 HT: NO CRACKS, CANTING OR CONSCIONED, HEAVY NY INFESTATION COSCURING BASE. RECOMMENDE DE-EVALUATION ONCE CANGUY LEFE DUT TO DETERMINE ANDURIT OF DEADWOOD IN CROWN AND REVIEW FOLIAGE HEALTH. PRIOR FAILURE OF LARGE TREE TO SOUTH.		RETAIN AND MONITOR. MAY NEED CROWN CLEANING TO REDUCE WEIGHT ON BRANCHES LEANING OUT TO LAVIN (TARSET AREA).		¥ ;	
-	D	RED ALCER	ALNUS RUBRA	16	POOR	DEADDYING, MILLTIPLE SAPROPHYTIC CONKS ON STEM.	YES (10)	REMOVE FOR CONDITION		ی	
28	D	RED ALCER	ALNUS RUBRA	17	POOR	DEAD DYING, LARGE AREA OF DECAY AT BASE OF STEM ON EAST WHERE CODOMINANT STEM TORE OUT. CONKS, LEANING IN TO LAWN AREA.	YES (10)	REMOVEFOR CONDITION		5	
29	С	LEYLAND CYPRESS	X CUPRESSOCYPARIS LEYLANDII	17	9000			REMOVE FOR CONSTRUCTION		B	
30	С	LEYLAND CYPRESS	X CUPRESSOCYPARIS LEYLANDII	16	900D			REMOVE FOR CONSTRUCTION		LACAMAS CREEK	
31	С	LEYLAND CYPRESS	X CUPRESSOCYPARIS LEYLANDII	19	GOOD			REMOVE FOR CONSTRUCTION		Ĕ.	
32	C	LEYLAND CYPRESS	X CUPRESSOCYPARIS LEYLANDII	20	G00D			REMOVE FOR CONSTRUCTION			
33	С	LEYLAND CYPRESS	X CUPRESSOCYPARIS LEYLANDII	19	9000			REMOVE FOR CONSTRUCTION		1	
34	С	LEYLAND CYPRESS	X CUPRESSOCYPARIS LEYLANDII	22	FAIR	COCOMINANT STEMS WITH INCLUDED BARK UP TO 5'		REMOVE FOR CONSTRUCTION		4	
35	С	LEYLAND CYPRESS	X CUPRESSOCYPARIS LEYLANDII	25@2	FAIR	FOUR STEMS, INCLUDED BARK AT ATTACHMENTS		REMOVE FOR CONSTRUCTION		7	
36	С	LEYLAND CYPRESS	X CUPRESSOCYPARIS LEYLANDII	28 @ 3'	G00D			REMOVE FOR CONSTRUCTION		ć	
	D	EN/PRESS TREE	PAULOWNIA TOMENTOSA	34	G00D	ONESIDED CROWN TO SOUTH.		REMOVE FOR CONSTRUCTION			Ì
38	D	RED ALCER	ALNUS RUBRA	31@3	POOR	CONKS, VISIBLE WHITE ROT WHERE STEM TO NORTH BROKE OUT IN PAST AND NO WOUND CLOSURE HAS OCCUPRED.	YES (3)	REMOVE FOR CONDITION			١
39	С	DOUGLAS FIR	PSEUDOTSUGAMENZIESII	62	600D	COCCMINANT STEMS WITH NOLLOGO BARK UP TO 8: WEST STEM TOP COME		RETAIN NO LICHTON. PROVING THE PROTECTION, PROVING AS DOWN OF ANGLE THE PANNOR BUT, BUT DUT WILL BREAT APPROXIMATELY WAS OF THE REFER PER PROGRAMMENT OF THE PROVINGE ANNO MORPOWERST WITH PROUNT FEE. CHAPTER CONTROLLED AND AND AND AND AND AND AND AND AND AN	Т	DRA	
								CASE ROOTS OVER 3" () ARE ENCOUNTERED. DOUG FIRS ARE RELATIVELY TOLERANT OF FILL AS LONG AS IT DOES NOT EXCEED 25% OF THE TPZ. THIS TREE WILL NEED TO BE MONITORED ANNUALLY AFTER CONSTRUCTION TO CHECK FOR SIGNS OF DECLINE.		2	

TREE SURVEY - EXISTING PUMP STATION



TREE SURVEY - BAZ PARK

