


CITY OF FOLSOM
BENCHMARK NO BM-38:  **397.42 FEET**
 SET A BRASS DISK STAMPED CITY OF FOLSOM B.M. 38 AT THE MIDDLE POINT OF THE EASTERLY CURB RETURN IN FRONT OF THE STREET LIGHT AT THE INTERSECTION OF NATOMA STREET AND CIMMARON CIRCLE.
 ELEV=397.42 (NGVD 29).

BASIS OF BEARING
 "PLAT OF CIMMARON HILL" FILED IN BOOK 122 OF MAPS, AT PAGE 10, SACRAMENTO COUNTY RECORDS, ESTABLISHED FROM FOUND MONUMENTS SHOWN HEREON.


FLOOD ZONE
 ZONE X (AREA OF MINIMAL FLOOD HAZARD) PER FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE NO. 06067C0116H, DATED AUGUST 16, 2012.

APN: 071-0320-042

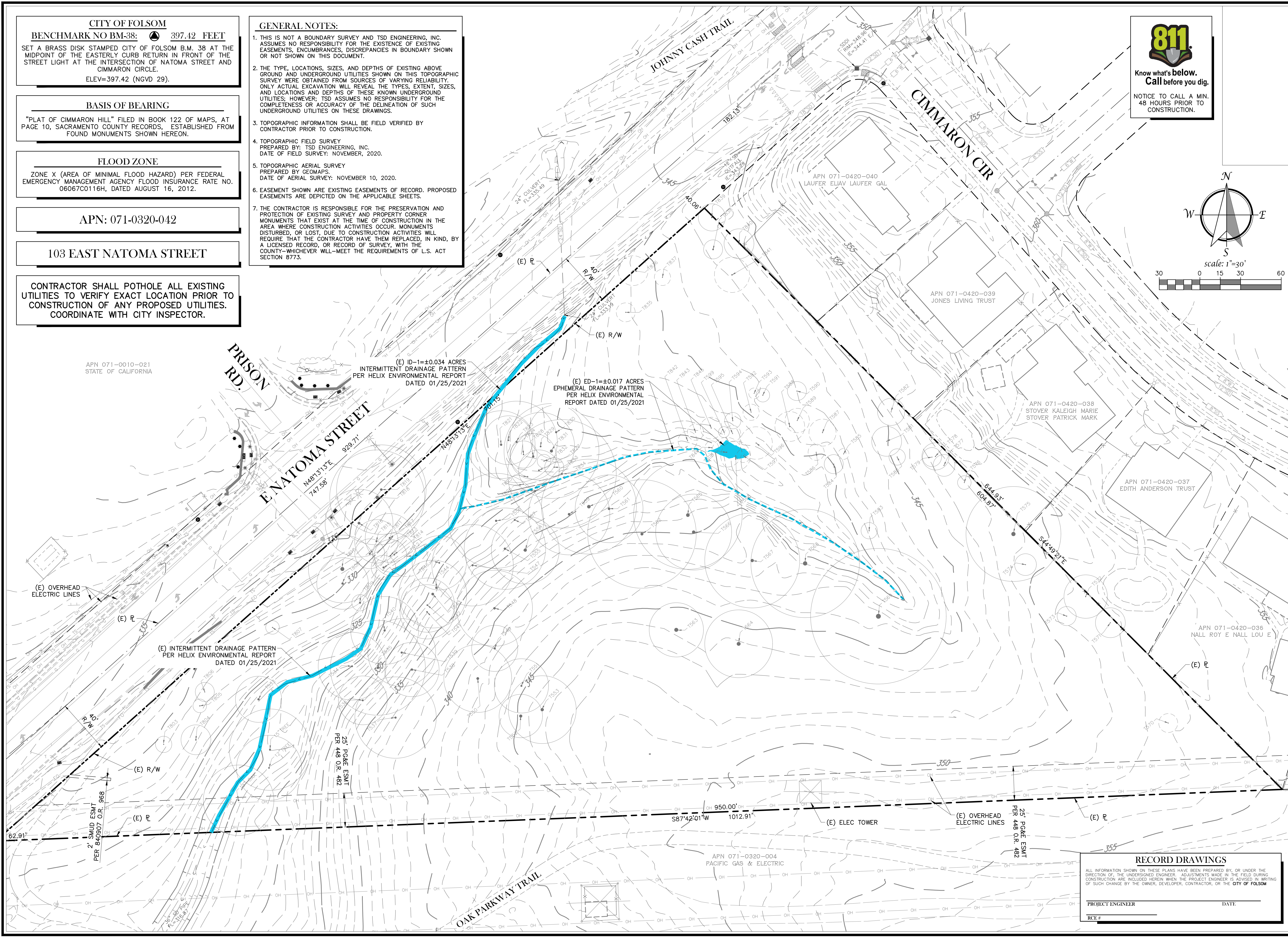
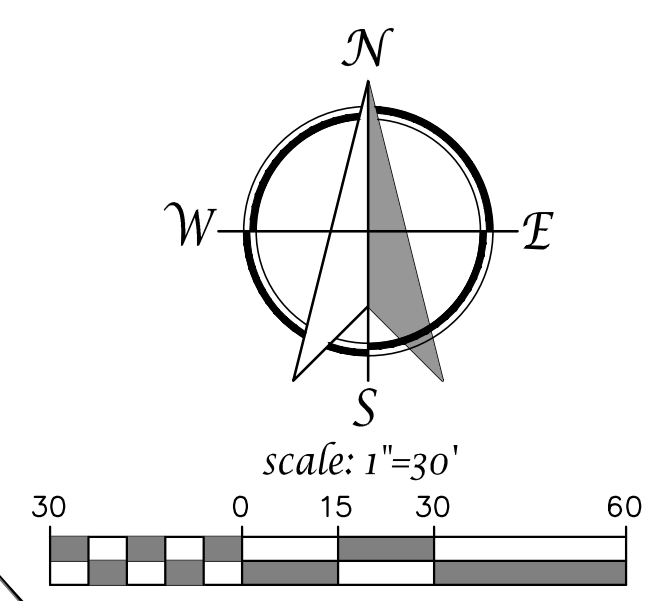
103 EAST NATOMA STREET

CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES TO VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION OF ANY PROPOSED UTILITIES. COORDINATE WITH CITY INSPECTOR.

- GENERAL NOTES:**
1. THIS IS NOT A BOUNDARY SURVEY AND TSD ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR THE EXISTENCE OF EXISTING EASEMENTS, ENCUMBRANCES, DISCREPANCIES IN BOUNDARY SHOWN OR NOT SHOWN ON THIS DOCUMENT.
 2. THE TYPE, LOCATIONS, SIZES, AND DEPTHS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES SHOWN ON THIS TOPOGRAPHIC SURVEY WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, AND LOCATIONS AND DEPTHS OF THESE KNOWN UNDERGROUND UTILITIES; HOWEVER, TSD ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND UTILITIES ON THESE DRAWINGS.
 3. TOPOGRAPHIC INFORMATION SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.
 4. TOPOGRAPHIC FIELD SURVEY PREPARED BY: TSD ENGINEERING, INC. DATE OF FIELD SURVEY: NOVEMBER, 2020.
 5. TOPOGRAPHIC AERIAL SURVEY PREPARED BY: GEOMAPS. DATE OF AERIAL SURVEY: NOVEMBER 10, 2020.
 6. EASEMENT SHOWN ARE EXISTING EASEMENTS OF RECORD. PROPOSED EASEMENTS ARE DEPICTED ON THE APPLICABLE SHEETS.
 7. THE CONTRACTOR IS RESPONSIBLE FOR THE PRESERVATION AND PROTECTION OF EXISTING SURVEY AND PROPERTY CORNER MONUMENTS THAT EXIST AT THE TIME OF CONSTRUCTION IN THE AREA WHERE CONSTRUCTION ACTIVITIES OCCUR. MONUMENTS DISTURBED, OR LOST, DUE TO CONSTRUCTION ACTIVITIES WILL REQUIRE THAT THE CONTRACTOR HAVE THEM REPLACED, IN KIND, BY A LICENSED RECORD, OR RECORD OF SURVEY, WITH THE COUNTY-WHICHEVER WILL-MEET THE REQUIREMENTS OF L.S. ACT SECTION 8773.



Know what's below. Call before you dig.
 NOTICE TO CALL A MIN. 48 HOURS PRIOR TO CONSTRUCTION.



TSD ENGINEERING, INC.
 expect more.
 785 Orchard Drive, Suite #110
 Folsom, CA 95630
 Phone: (916) 608-0707
 Fax: (916) 608-0701

REVISIONS		AGENCY APPROVE	TSD APPROVED
SYMBOL	DATE	BY	DATE
	6/24/24	DJM	6/24/24
	6/24/24	DJM	6/24/24

DESIGNED BY	DJM	DATE	06/21/24
DRAWN BY	DJM	CHECKED BY	CJS

VINTAGE AT FOLSOM
 103 EAST NATOMA STREET
 AT FOLSOM PRISON ROAD
 SITE IMPROVEMENT PLANS
 EXISTING CONDITIONS
 CITY OF FOLSOM CA

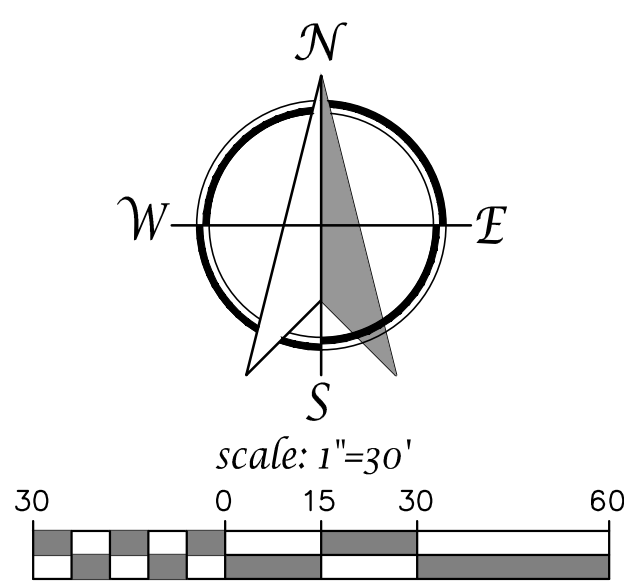
RECORD DRAWINGS
 ALL INFORMATION SHOWN ON THESE PLANS HAVE BEEN PREPARED BY, OR UNDER THE DIRECTION OF, THE UNDERSIGNED ENGINEER. ADJUSTMENTS MADE IN THE FIELD DURING CONSTRUCTION ARE INCLUDED HEREIN WHEN THE PROJECT ENGINEER IS ADVISED IN WRITING OF SUCH CHANGE BY THE OWNER, DEVELOPER, CONTRACTOR, OR THE CITY OF FOLSOM.
 PROJECT ENGINEER _____ DATE _____
 RCT # _____

P:\Projects\101-002-02-Div-C-Civil\WMPRD\USA-C2.0-Existing Conditions.dwg, Cms: 10/27/23, 08:28:24 THIRD SUBMITTAL - 06/21/24 - NOT APPROVED FOR CONSTRUCTION

DEMOLITION NOTES:

1. THIS IS NOT A BOUNDARY SURVEY AND TSD ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR THE EXISTENCE OF EXISTING EASEMENTS, ENCUMBRANCES, DISCREPANCIES IN BOUNDARY SHOWN OR NOT SHOWN ON THIS DOCUMENT.
2. THE TYPE, LOCATIONS, SIZES, AND DEPTHS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES SHOWN ON THIS TOPOGRAPHIC SURVEY WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, AND LOCATIONS AND DEPTHS OF THESE KNOWN UNDERGROUND UTILITIES; HOWEVER, TSD ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND UTILITIES ON THESE DRAWINGS.
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5. TOPOGRAPHIC AERIAL SURVEY PREPARED BY: GEOMAP'S DATE OF AERIAL SURVEY: NOVEMBER 10, 2020.
6. EASEMENT SHOWN ARE EXISTING EASEMENTS OF RECORD. PROPOSED EASEMENTS ARE DEPICTED ON THE APPLICABLE SHEETS.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE PRESERVATION AND PROTECTION OF EXISTING SURVEY AND PROPERTY CORNER MONUMENTS THAT EXIST AT THE TIME OF CONSTRUCTION IN THE AREA WHERE CONSTRUCTION ACTIVITIES OCCUR. MONUMENTS DISTURBED, OR LOST, DUE TO CONSTRUCTION ACTIVITIES WILL REQUIRE THAT THE CONTRACTOR HAVE THEM REPLACED, IN KIND, BY A LICENSED RECORDOR, OR RECORD OF SURVEY, WITH THE COUNTY-WHICHEVER WILL MEET THE REQUIREMENTS OF U.S. ACT SECTION 8773.

CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES TO VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION OF ANY PROPOSED UTILITIES. COORDINATE WITH CITY INSPECTOR.



DEMOLITION LEGEND

- AC REMOVAL
FULL DEPTH AC PAVEMENT REMOVAL FOR FRONTAGE IMPROVEMENTS.
(LIMITS OF DEMO WILL BE DETERMINED IN THE FIELD TO THE SATISFACTION OF THE CITY)
- CONFORM SAWCUT & GRIND OVERLAY
SAWCUT NEAT
5' CONFORM w 2" GRIND & OVERLAY
(LIMITS OF DEMO WILL BE DETERMINED IN THE FIELD TO THE SATISFACTION OF THE CITY)
- GRADING LIMITS
CLEARING, GRADING AND LAND DISTURBANCE AREA.

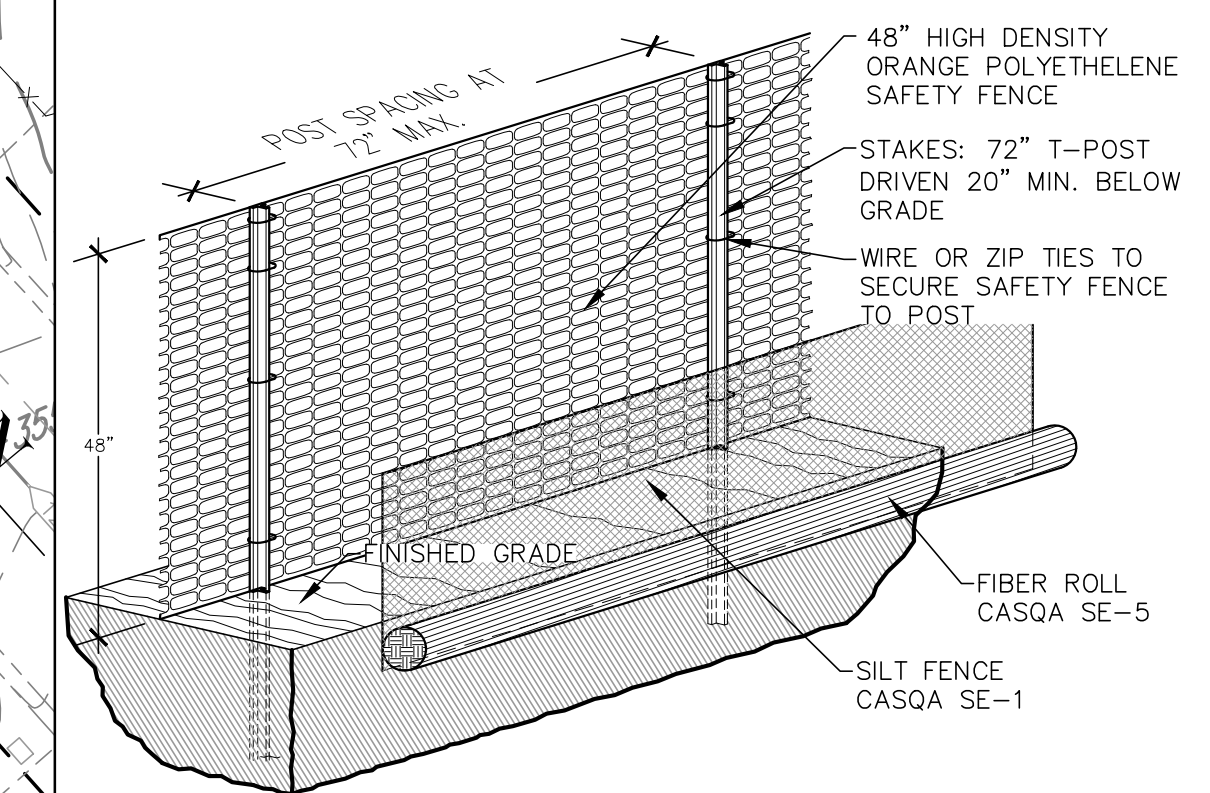
811
Know what's below.
Call before you dig.

NOTICE TO CALL A MIN.
48 HOURS PRIOR TO
CONSTRUCTION.

DEMOLITION CONSTRUCTION NOTES

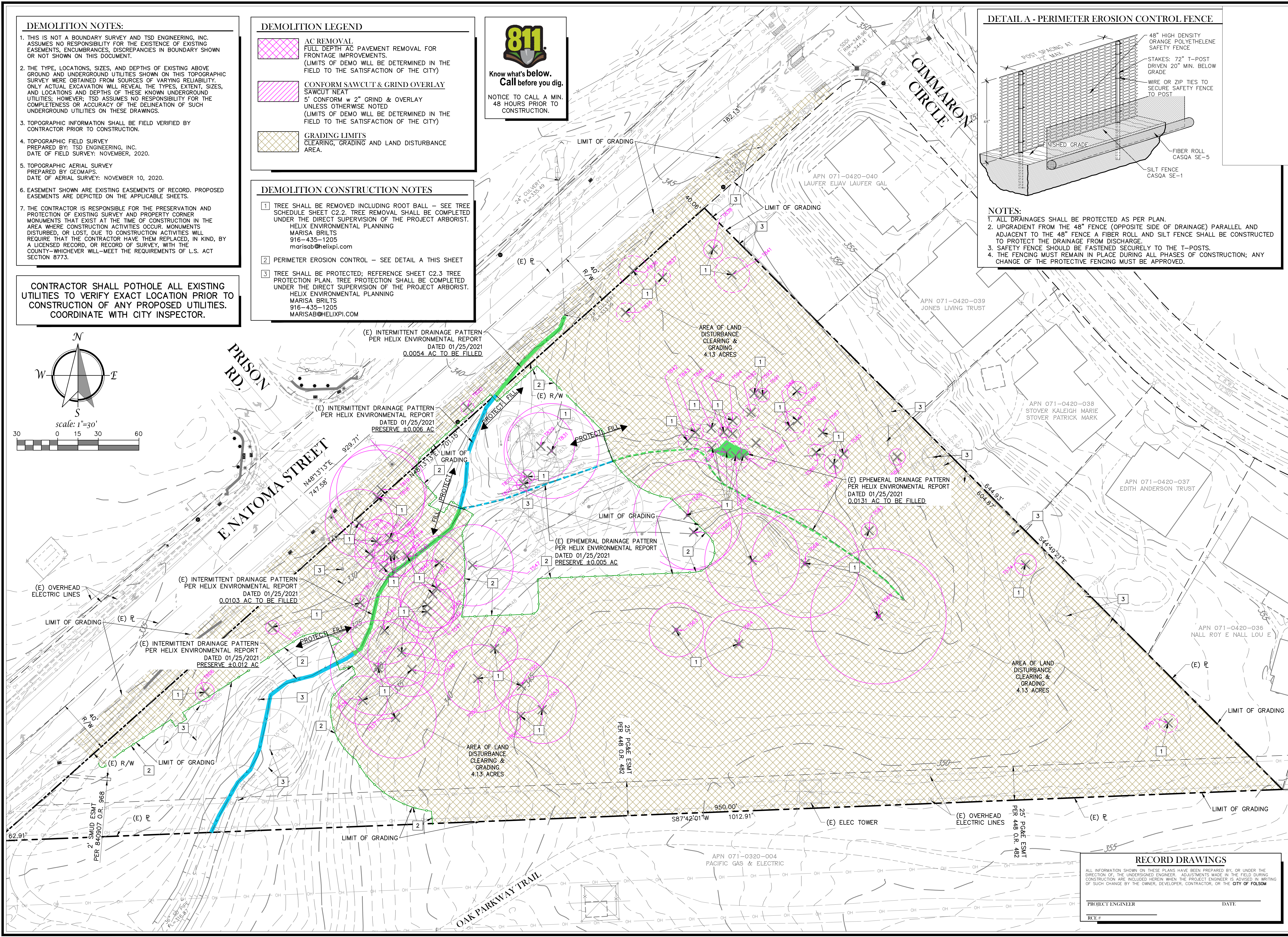
- 1 TREE SHALL BE REMOVED INCLUDING ROOT BALL - SEE TREE SCHEDULE SHEET C2.2. TREE REMOVAL SHALL BE COMPLETED UNDER THE DIRECT SUPERVISION OF THE PROJECT ARBORIST.
HELIX ENVIRONMENTAL PLANNING
MARISA BRILTS
916-435-1205
marisab@helixpi.com
- 2 PERIMETER EROSION CONTROL - SEE DETAIL A THIS SHEET
- 3 TREE SHALL BE PROTECTED; REFERENCE SHEET C2.3 TREE PROTECTION PLAN. TREE PROTECTION SHALL BE COMPLETED UNDER THE DIRECT SUPERVISION OF THE PROJECT ARBORIST.
HELIX ENVIRONMENTAL PLANNING
MARISA BRILTS
916-435-1205
MARISAB@HELIXPI.COM

DETAIL A - PERIMETER EROSION CONTROL FENCE



NOTES:

1. ALL DRAINAGES SHALL BE PROTECTED AS PER PLAN.
2. UPGRADIENT FROM THE 48" FENCE (OPPOSITE SIDE OF DRAINAGE) PARALLEL AND ADJACENT TO THE 48" FENCE A FIBER ROLL AND SILT FENCE SHALL BE CONSTRUCTED TO PROTECT THE DRAINAGE FROM DISCHARGE.
3. SAFETY FENCE SHOULD BE FASTENED SECURELY TO THE T-POSTS.
4. THE FENCING MUST REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION; ANY CHANGE OF THE PROTECTIVE FENCING MUST BE APPROVED.



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Folsom, CA 95630
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Fax: (916) 608-0701

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expect more.

REVISIONS		AGENCY APPROVE	TSD APPROVED
SYMBOL	DATE	BY	DATE

DESIGNED BY:	DJM	DATE:	08/28/24
DRAWN BY:	DJM	CHECKED BY:	CJS

VINTAGE AT FOLSOM
103 EAST NATOMA STREET
AT FOLSOM PRISON ROAD
SITE IMPROVEMENT PLANS
DEMOLITION & TREE
REMOVAL PLAN
CITY OF FOLSOM CA

RECORD DRAWINGS

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PROJECT ENGINEER	DATE

TREES TO BE REMOVED:

Tree Number	Species	DSH (in)	Dripline (ft)	Height (ft)	Health	Structure	Notes	Protected?	Mitigation?	REMOVE		REMAIN	
										Replace (in)	Tree to be Removed (in)	Tree to Remain (in)	DSH (in)
535	Blue Oak - Quercus douglasii	20.4	35	75	5	4		YES	YES	FULL	20.4	x	20.4
536	Blue Oak - Quercus douglasii	15	18	55	2	3	crowd dieback, lean	YES	YES	HALF	7.5	x	7.5
537	Blue Oak - Quercus douglasii	16.5	30	72	3	4	crowd dieback	YES	YES	FULL	16.5	x	16.5
538	Blue Oak - Quercus douglasii	18.4	20	70	2	4	crowd dieback	YES	YES	HALF	9.2	x	9.2
539	Blue Oak - Quercus douglasii	16.9	25	70	2	5	tree is in decline	YES	YES	HALF	8.5	x	8.5
540	Blue Oak - Quercus douglasii	16.7	25	65	2	3	crowd dieback, lean	YES	YES	HALF	8.3	x	8.3
541	Blue Oak - Quercus douglasii	11.5	20	35	1	1	crowd dieback, lean	YES	NO	0	0	x	0
542	Blue Oak - Quercus douglasii	12.6	20	35	1	1	crowd dieback, lean, nearly dead	YES	NO	0	0	x	0
543	Blue Oak - Quercus douglasii	21.5	25	45	2	3	crowd dieback, indicated bark, lean	YES	YES	HALF	10.7	x	10.7
544	Blue Oak - Quercus douglasii	17.7	0	0	0	0	dead	NO	NO	0	0	x	0
545	Mulberry - Morus alba	5.3, 3.3, 3.2	15	15	4	3	codominant leaders	NO	NO	0	0	x	0
546	Blue Oak - Quercus douglasii	13.2	20	55	1	4	crowd dieback, nearly dead	YES	NO	0	0	x	0
547	Blue Oak - Quercus douglasii	16.1	30	58	2	4	crowd dieback	YES	YES	HALF	8.0	x	8.0
549	Blue Oak - Quercus douglasii	17.8	17	55	1	4	crowd dieback	YES	NO	0	0	x	0
550	Blue Oak - Quercus douglasii	22	25	68	1	4	crowd dieback	YES	NO	0	0.0	x	0.0
551	Blue Oak - Quercus douglasii	14.5	20	55	2	4	crowd dieback	YES	YES	HALF	7.2	x	7.2
552	Blue Oak - Quercus douglasii	25.2	16	65	2	4	crowd dieback	YES	YES	HALF	12.6	x	12.6
553	Blue Oak - Quercus douglasii	26.5	25	65	4	4		YES	YES	FULL	26.5	x	26.5
557	Blue Oak - Quercus douglasii	14.4	0	0	0	0	dead	NO	NO	0	0	x	0
558	Blue Oak - Quercus douglasii	16.3	0	0	0	0	dead	NO	NO	0	0	x	0
563	Blue Oak - Quercus douglasii	33.5	20	70	2	2	trunk wound, trunk rot (damaged 2023)	YES	YES	HALF	16.75	x	16.8
564	Blue Oak - Quercus douglasii	32.1	25	75	0	0	felled (2023 storm)	YES	YES	FULL	0.0	x	0.0
565	Blue Oak - Quercus douglasii	30	40	80	0	0	felled (2023 storm)	YES	YES	HALF	0.0	x	0.0
566	Blue Oak - Quercus douglasii	27.3	28	70	2	4	codominant leaders	YES	YES	HALF	13.65	x	13.7
567	Blue Oak - Quercus douglasii	26.6	35	75	4	4	lean	YES	YES	FULL	26.6	x	26.6
568	Blue Oak - Quercus douglasii	35.5	40	75	5	4		YES	YES	FULL	35.5	x	35.5
569	Blue Oak - Quercus douglasii	41	50	80	1	2	codominant leaders, indicated bark, trunk rot (failure of codominant leader)	YES	YES	FULL	41.0	x	41.0
570	Blue Oak - Quercus douglasii	5.6, 5.7	7	14	4	4	codominant leaders	NO	NO	0	0	x	0
574	Blue Oak - Quercus douglasii	6.1	8	12	5	5		YES	YES	FULL	6.1	x	6.1
579	Blue Oak - Quercus douglasii	4.5	7	11	5	5		NO	NO	0.0	0.0	x	0.0
580	Blue Oak - Quercus douglasii	6	6	10	5	5		YES	YES	FULL	6.0	x	6.0
583	Blue Oak - Quercus douglasii	6.5	6	11	4	4		YES	YES	FULL	6.5	x	6.5
584	Blue Oak - Quercus douglasii	6.2	7	16	4	4		YES	YES	FULL	6.2	x	6.2
585	Blue Oak - Quercus douglasii	4.5	4	11	5	5		NO	NO	0	0	x	0
586	Blue Oak - Quercus douglasii	4.2, 2.8, 3.5	6	12	4	3	codominant leaders, indicated	NO	NO	0	0	x	0
587	Blue Oak - Quercus douglasii	6.5, 6	10	18	4	3	codominant leaders, indicated	YES	YES	FULL	8.8	x	8.8
588	Blue Oak - Quercus douglasii	8.6, 6.7	11	19	5	4	codominant leaders	YES	YES	FULL	10.9	x	10.9
589	Interior Live Oak - Quercus wislizeni	5.5, 5.2, 3	9	9	4	3	codominant leaders	NO	NO	0.0	0.0	x	0.0
590	Blue Oak - Quercus douglasii	6	7	15	5	5		YES	YES	FULL	6.0	x	6.0
591	Blue Oak - Quercus douglasii	6.5	5	12	4	4		YES	YES	FULL	6.5	x	6.5
592	Blue Oak - Quercus douglasii	4.5	6	12	4	4	codominant leaders	NO	NO	0.0	0.0	x	0.0
593	Blue Oak - Quercus douglasii	4	4	12	5	5		NO	NO	0.0	0.0	x	0.0
594	Blue Oak - Quercus douglasii	6.2	6	13	5	4		YES	YES	FULL	6.2	x	6.2
595	Blue Oak - Quercus douglasii	5	6	12	4	4		NO	NO	0	0	x	0
596	Fremont's cottonwood - Populus fremontii	6.9, 6.7, 5.7	12	15	4	3	codominant leaders	NO	NO	0	0	x	0
597	Fremont's cottonwood - Populus fremontii	4.3	5	18	5	4		NO	NO	0	0	x	0
598	Fremont's cottonwood - Populus fremontii	5.7, 6.2, 2.5	11	19	5	3	codominant leaders	NO	NO	0	0	x	0
599	Blue Oak - Quercus douglasii	5.9	4	16	4	4		NO	NO	0	0	x	0
600	Fremont's cottonwood - Populus fremontii	8.6	11	20	5	5		NO	NO	0	0	x	0
606	Blue Oak - Quercus douglasii	4.2, 5.5	7	11	4	3	codominant leaders	NO	NO	0	0	x	0
607	Blue Oak - Quercus douglasii	6.7	5	11	4	3	codominant leaders	YES	YES	FULL	6.7	x	6.7
609	Interior Live Oak - Quercus wislizeni	15.7	6	13	2	1	trunk wound, trunk rot, lean	YES	YES	HALF	7.8	x	7.8
611	Blue Oak - Quercus douglasii	14.4	11	35	5	4		YES	YES	FULL	14.4	x	14.4
612	Blue Oak - Quercus douglasii	15.3	9	40	3	4	exposed roots	YES	YES	FULL	15.3	x	15.3
613	Blue Oak - Quercus douglasii	12	12	32	4	4	indicated bark	YES	YES	FULL	12.0	x	12.0
614	Blue Oak - Quercus douglasii	11.8	16	35	4	2	lean	YES	YES	FULL	11.8	x	11.8
615	Blue Oak - Quercus douglasii	13	16	36	4	3	lean	YES	YES	FULL	13.0	x	13.0
616	Blue Oak - Quercus douglasii	22	25	60	5	4		YES	YES	FULL	22.0	x	22.0
617	Blue Oak - Quercus douglasii	14.4	18	25	1	1	crowd dieback, lean	YES	NO	0	0	x	0
618	Blue Oak - Quercus douglasii	28	35	70	4	3	codominant leaders	YES	YES	FULL	28.0	x	28.0
619	Blue Oak - Quercus douglasii	20	33	65	4	4	codominant leaders	YES	YES	FULL	20.0	x	20.0
620	Blue Oak - Quercus douglasii	5.2	5	8	5	4		NO	NO	0	0	x	0
625	Blue Oak - Quercus douglasii	9.6, 8.8	0	0	1	1	dead	NO	NO	0	0	x	0
626	Blue Oak - Quercus douglasii	7.6, 6.8	0	0	1	1	dead	NO	NO	0	0	x	0
629	Blue Oak - Quercus douglasii	12.8	25	30	3	1	lean (root damage due to adjacent felled tree 831)	YES	YES	FULL	12.8	x	12.8
831	Blue Oak - Quercus douglasii	25	35	70	0	0	felled (2023 storm)	YES	YES	FULL	0.0	x	0.0
835	Interior Live Oak - Quercus wislizeni	6.4, 4.6	7	16	5	4	codominant leaders	YES	YES	FULL	7.9	x	7.9
836	Interior Live Oak - Quercus wislizeni	7.7, 5.5	11	19	5	4	codominant leaders	YES	YES	FULL	9.4	x	9.4

TREES TO BE REMOVED (CONT.):

Tree Number	Species	DSH (in)	Dripline (ft)	Height (ft)	Health	Structure	Notes	Protected?	Mitigation?	REMOVE		REMAIN	
										Replace (in)	Tree to be Removed (in)	Tree to Remain (in)	DSH (in)
837	Blue Oak - Quercus douglasii	5.7, 2.7	6	12	5	3	codominant leaders, included bark	NO	NO	0	0	x	0
838	Blue Oak - Quercus douglasii	12.5	7	18	4	4	included bark	YES	YES	FULL	12.5	x	12.5
841	Blue Oak - Quercus douglasii	9.5, 5.6	13	21	4	4	codominant leaders	YES	YES	FULL	11.0	x	11.0
842	Fremont's cottonwood - Populus fremontii	5.2, 5	7	16	4	4	codominant leaders	NO	NO	0	0	x	0
843	Blue Oak - Quercus douglasii	6.3	6	18	5	5		YES	YES	FULL	6.3	x	6.3
844	Fremont's cottonwood - Populus fremontii	6.8	5	17	5	5		NO	NO	0	0	x	0
845	Blue Oak - Quercus douglasii	5.9, 2.7	8	13	5	4	codominant leaders	NO	NO	0	0	x	0

Total Protected DSH Tree Inches to Remove 543.0 inches

TREES SHALL REMAIN (DRIP LINE ENCROACHMENT):

Tree Number	Species	DSH (in)	Dripline (ft)	Height (ft)	Health	Structure	Notes	Protected?	Mitigation?	REMOVE		REMAIN	
										Replace (in)	Tree to be Removed (in)	Tree to Remain (in)	DSH (in)
534	Blue Oak - Quercus douglasii	14	25	65	5	3	lean	YES	YES	FULL	14	x	14
548	Blue Oak - Quercus douglasii	19.8	28	70	3	4	crowd dieback	YES	NO	0	0	x	0
562	Blue Oak - Quercus douglasii	23.7	40	70	4	4		YES	YES	FULL	23.7	x	24
571	Ornamental cherry - Prunus sp.	6, 4, 5.8, 4, 3.5, 2	11	15	4	3	codominant leaders	NO	NO	0	0	x	0
572	Chinese hackberry - Celtis sinensis	7.2	16	22	5	4		NO	NO	0	0	x	0
573	Blue Oak - Quercus douglasii	7.2	7	11	5	5		YES	YES	FULL	7.2	x	7
575	Fremont's cottonwood - Populus fremontii	20.35	35	65	4	4	codominant leaders, included bark	NO	NO	0	0	x	0
576	Blue Oak - Quercus douglasii	5.6	5	11	4	4		NO	NO	0	0	x	0
577	Blue Oak - Quercus douglasii	6.7	8	17	4	4		YES	YES	FULL	6.7	x	7
578	Blue Oak - Quercus douglasii	7.3	10	15	4	3		YES	YES	FULL	7.3	x	7
579	Blue Oak - Quercus douglasii	4.5	7	11	5	5		NO	NO	0	0.0	x	0
581	Blue Oak - Quercus douglasii	4.4, 8	11	12	5	4	codominant leaders, included bark	NO	NO	0	0	x	0
582	Chinese Willow - Triaena sebifera	4.8, 4.7, 3.7	10	15	4	3	codominant leaders	NO	NO	0	0	x	0
805	Blue Oak - Quercus douglasii	7.2	5	16	5	5		YES	YES	FULL	7.2	x	7
808	Blue Oak - Quercus douglasii	16.6	19	65	3	4	lean	YES	YES	FULL	16.6	x	19
810	Blue Oak - Quercus douglasii	32.5	25	65	5	4		YES	YES	FULL	32.5	x	32.5
830	Gooding's black willow - Salix goodingii	9.2, 10.4, 7.2	10	18	2	3	included bark, crown dieback	NO	NO	0	0	x	0
840	Gooding's black willow - Salix goodingii	8.9, 9	11	16	2	2	included bark, crown dieback	NO	NO	0	0	x	0

*Trees although identified to remain shall pay the full in-lieu mitigation fee based on Drip Line Encroachment, Protected Trees, & Mitigation Required (Tree No. 541, 571, 572, 576, & 810) 67.7 inches

TREES SHALL REMAIN:

Tree Number	Species	DSH (in)	Dripline (ft)	Height (ft)	Health	Structure	Notes	Protected?	Mitigation?	REMOVE		REMAIN	
										Replace (in)	Tree to be Removed (in)	Tree to Remain (in)	DSH (in)
533	Blue Oak - Quercus douglasii	18.0	17	58	5	4		YES	YES	FULL	17.8	x	17.8
554	Blue Oak - Quercus douglasii	26.6	25	65	1	3	crowd dieback, nearly dead	YES	NO	0.0	0.0	x	0.0
555	Blue Oak - Quercus douglasii	19.2	30	65	1	4	crowd dieback	YES	NO	0.0	0.0	x	0.0
556	Blue Oak - Quercus douglasii	17.0	35	60	2	3	codominant leaders, crown dieback	YES	YES	HALF	8.5	x	8.5
559	Blue Oak - Quercus douglasii	20.5	30	68	3	3	crowd dieback, lean	YES	YES	FULL	20.5	x	20.5
560	Blue Oak - Quercus douglasii	28.7	35	75	3	4	codominant leaders, crown dieback	YES	YES	FULL	28.7	x	28.7
561	Blue Oak - Quercus douglasii	15.8, 19.8	25	68	4	4	codominant leaders	YES	YES	FULL	35.6	x	35.6
803	Blue Oak - Quercus douglasii	6.4	6	18	5	4		YES	YES	FULL	6.4	x	6.4
804	Blue Oak - Quercus douglasii	10.9	11	22	5	4		YES	YES	FULL	10.9		

TREE PROTECTION CONSTRUCTION LEGEND & NOTES

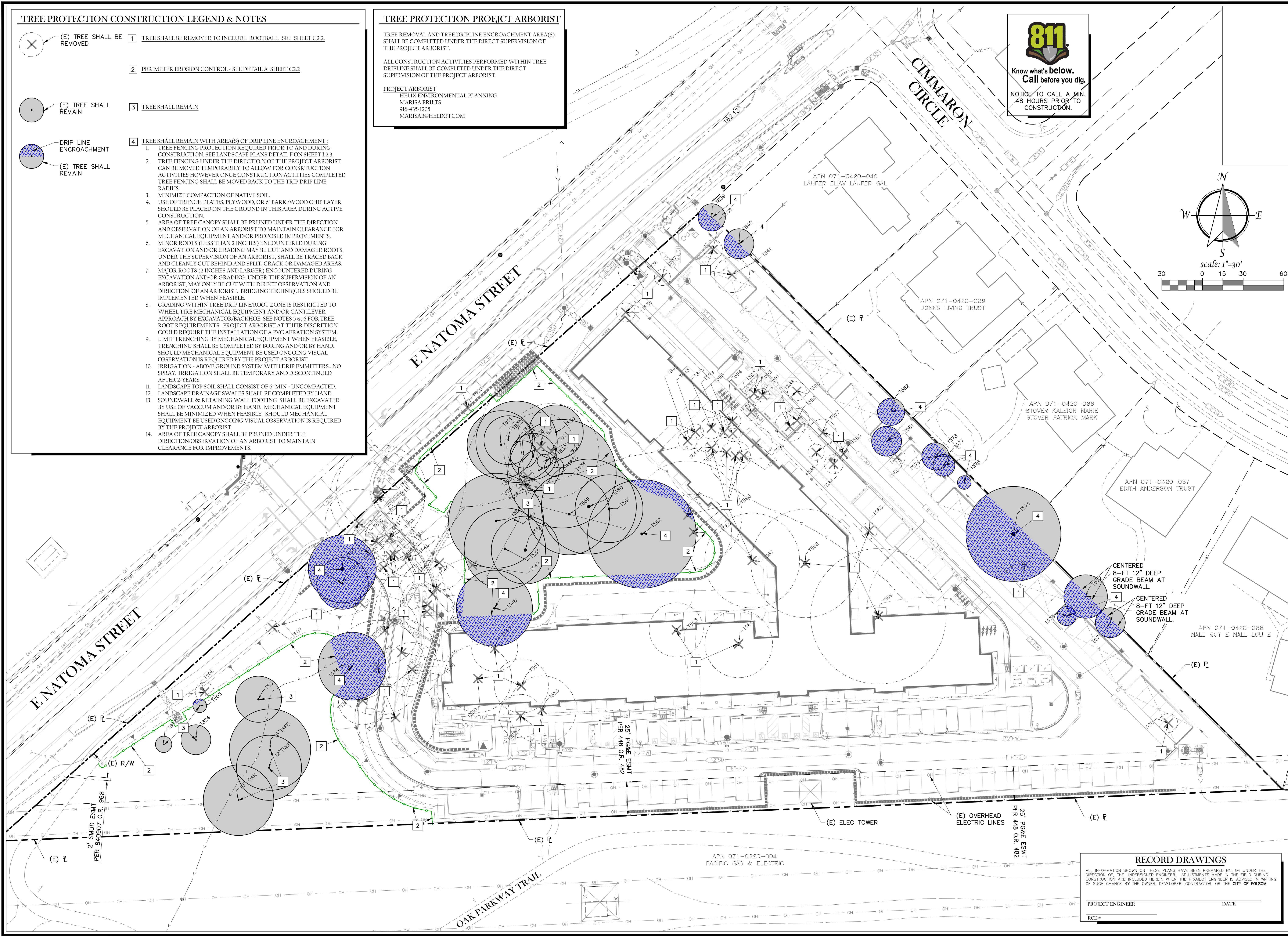
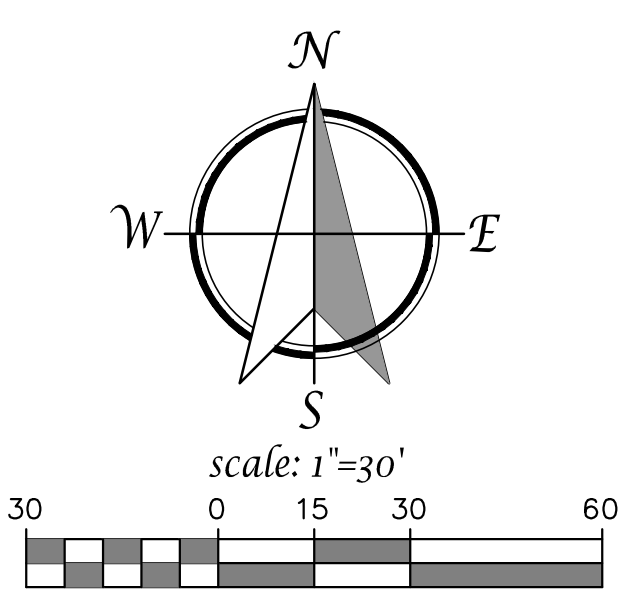
- (E) TREE SHALL BE REMOVED
 - (E) TREE SHALL REMAIN
 - DRIP LINE ENCROACHMENT
 - (E) TREE SHALL REMAIN
- 1 TREE SHALL BE REMOVED TO INCLUDE ROOTBALL. SEE SHEET C2.2
 - 2 PERIMETER EROSION CONTROL - SEE DETAIL A SHEET C2.2
 - 3 TREE SHALL REMAIN
 - 4 TREE SHALL REMAIN WITH AREA(S) OF DRIP LINE ENCROACHMENT:
 1. TREE FENCING PROTECTION REQUIRED PRIOR TO AND DURING CONSTRUCTION. SEE LANDSCAPE PLANS DETAIL F ON SHEET L2.3.
 2. TREE FENCING UNDER THE DIRECTION OF THE PROJECT ARBORIST CAN BE MOVED TEMPORARILY TO ALLOW FOR CONSTRUCTION ACTIVITIES HOWEVER ONCE CONSTRUCTION ACTIVITIES COMPLETED TREE FENCING SHALL BE MOVED BACK TO THE TRIP DRIP LINE RADIUS.
 3. MINIMIZE COMPACTION OF NATIVE SOIL.
 4. USE OF TRENCH PLATES, PLYWOOD, OR 6" BARK/WOOD CHIP LAYER SHOULD BE PLACED ON THE GROUND IN THIS AREA DURING ACTIVE CONSTRUCTION.
 5. AREA OF TREE CANOPY SHALL BE PRUNED UNDER THE DIRECTION AND OBSERVATION OF AN ARBORIST TO MAINTAIN CLEARANCE FOR MECHANICAL EQUIPMENT AND/OR PROPOSED IMPROVEMENTS.
 6. MINOR ROOTS (LESS THAN 2 INCHES) ENCOUNTERED DURING EXCAVATION AND/OR GRADING MAY BE CUT AND DAMAGED ROOTS, UNDER THE SUPERVISION OF AN ARBORIST, SHALL BE TRACED BACK AND CLEANLY CUT BEHIND AND SPLIT, CRACK OR DAMAGED AREAS. MAJOR ROOTS (2 INCHES AND LARGER) ENCOUNTERED DURING EXCAVATION AND/OR GRADING, UNDER THE SUPERVISION OF AN ARBORIST, MAY ONLY BE CUT WITH DIRECT OBSERVATION AND DIRECTION OF AN ARBORIST. BRIDGING TECHNIQUES SHOULD BE IMPLEMENTED WHEN FEASIBLE.
 8. GRADING WITHIN TREE DRIP LINE/ROOT ZONE IS RESTRICTED TO WHEEL TIRE MECHANICAL EQUIPMENT AND/OR CANTILEVER APPROACH BY EXCAVATOR/BACKHOE. SEE NOTES 5 & 6 FOR TREE ROOT REQUIREMENTS. PROJECT ARBORIST AT THEIR DISCRETION COULD REQUIRE THE INSTALLATION OF A PVC AERATION SYSTEM. LIMIT TRENCHING BY MECHANICAL EQUIPMENT WHEN FEASIBLE. TRENCHING SHALL BE COMPLETED BY BORING AND/OR BY HAND. SHOULD MECHANICAL EQUIPMENT BE USED ONGOING VISUAL OBSERVATION IS REQUIRED BY THE PROJECT ARBORIST.
 10. IRRIGATION - ABOVE GROUND SYSTEM WITH DRIP EMMITTERS...NO SPRAY. IRRIGATION SHALL BE TEMPORARY AND DISCONTINUED AFTER 2 YEARS.
 11. LANDSCAPE TOP SOIL SHALL CONSIST OF 6" MIN - UNCOMPACTED.
 12. LANDSCAPE DRAINAGE SWALES SHALL BE COMPLETED BY HAND.
 13. SOUNDWALL & RETAINING WALL FOOTING SHALL BE EXCAVATED BY USE OF VACUUM AND/OR BY HAND. MECHANICAL EQUIPMENT SHALL BE MINIMIZED WHEN FEASIBLE. SHOULD MECHANICAL EQUIPMENT BE USED ONGOING VISUAL OBSERVATION IS REQUIRED BY THE PROJECT ARBORIST.
 14. AREA OF TREE CANOPY SHALL BE PRUNED UNDER THE DIRECTION/OBSERVATION OF AN ARBORIST TO MAINTAIN CLEARANCE FOR IMPROVEMENTS.

TREE PROTECTION PROJECT ARBORIST

TREE REMOVAL AND TREE DRIPLINE ENCROACHMENT AREA(S) SHALL BE COMPLETED UNDER THE DIRECT SUPERVISION OF THE PROJECT ARBORIST.

ALL CONSTRUCTION ACTIVITIES PERFORMED WITHIN TREE DRIPLINE SHALL BE COMPLETED UNDER THE DIRECT SUPERVISION OF THE PROJECT ARBORIST.

PROJECT ARBORIST:
HELIX ENVIRONMENTAL PLANNING
MARISA BRILITS
916-435-1205
MARISAB@HELIXPL.COM



785 Orchard Drive, Suite #110
Folsom, CA 95630
Phone: (916) 608-0707
Fax: (916) 608-0701

TSD ENGINEERING, INC.
expect more.

SYMBOL	DATE	DESCRIPTION	APPROVE	TSD APPROVED

DESIGNED BY	DJM	DATE	08/28/24
DRAWN BY <td>DJM <td> </td> <td> </td> </td>	DJM <td> </td> <td> </td>		
CHECKED BY <td>CJS <td> </td> <td> </td> </td>	CJS <td> </td> <td> </td>		

VINTAGE AT FOLSOM
103 EAST ENATOMA STREET
AT FOLSOM PRISON ROAD
SITE IMPROVEMENT PLANS
TREE PROTECTION PLAN
CITY OF FOLSOM CA

RECORD DRAWINGS

ALL INFORMATION SHOWN ON THESE PLANS HAVE BEEN PREPARED BY, OR UNDER THE DIRECTION OF, THE UNDERSIGNED ENGINEER. ADJUSTMENTS MADE IN THE FIELD DURING CONSTRUCTION ARE INCLUDED HEREIN WHEN THE PROJECT ENGINEER IS ADVISED IN WRITING OF SUCH CHANGE BY THE OWNER, DEVELOPER, CONTRACTOR, OR THE CITY OF FOLSOM.

PROJECT ENGINEER _____ DATE _____

RCT # _____

Tree Number	Species	DSH (in)	Dripline	Height	Health	Structure	Notes	Protection	Mitigation	Replace. Inches*	Tree To be Removed(x)	Trees to Remain (0)
533	Blue Oak <i>Quercus douglasii</i>	17.8	17	58	5	4		Yes	Yes - Full	17.8		0
534	Blue Oak <i>Quercus douglasii</i>	14	25	65	5	3	lean	Yes	Yes - Full	14		
535	Blue Oak <i>Quercus douglasii</i>	20.4	35	75	5	4		Yes	Yes - Full	20.4	x	
536	Blue Oak <i>Quercus douglasii</i>	15	18	55	2	3	crown dieback, lean	Yes	Yes - Half	7.5	x	
537	Blue Oak <i>Quercus douglasii</i>	16.5	30	72	3	4	crown dieback	Yes	Yes - Full	16.5	x	
538	Blue Oak <i>Quercus douglasii</i>	18.4	20	70	2	4	crown dieback	Yes	Yes - Half	9.2	x	
539	Blue Oak <i>Quercus douglasii</i>	16.9	25	70	2	5	Tree is in decline	Yes	Yes - Half	8.5	x	
540	Blue Oak <i>Quercus douglasii</i>	16.7	25	65	2	3	crown dieback, lean	Yes	Yes- Half	8.3	x	
541	Blue Oak <i>Quercus douglasii</i>	11.5	20	15	1	1	crown dieback, lean	Yes	No	--	x	
542	Blue Oak <i>Quercus douglasii</i>	12.6	20	15	1	1	crown dieback, lean, nearly dead	Yes	No	--	x	
543	Blue Oak <i>Quercus douglasii</i>	21.5	25	45	2	3	crown dieback, included bark, lean	Yes	Yes- Half	10.7	x	
544	Blue Oak <i>Quercus douglasii</i>	17.7	0	0	0	0	dead	No	No	--	x	
545	Mulberry <i>Morus alba</i>	5.3, 3, 3, 3, 2	15	15	4	3	codominant leaders	No	No	--	x	
546	Blue Oak <i>Quercus douglasii</i>	13.2	20	55	1	4	crown dieback, nearly dead	Yes	No	--	x	

547	Blue Oak <i>Quercus douglasii</i>	16.1	30	58	2	4	crown dieback	Yes	Yes - Half	8	x	
548	Blue Oak <i>Quercus douglasii</i>	19.8	28	70	3	4	crown dieback	Yes	No	--		
549	Blue Oak <i>Quercus douglasii</i>	17.8	17	55	1	4	crown dieback	Yes	No	--	x	
550	Blue Oak <i>Quercus douglasii</i>	22	25	68	1	4	crown dieback	Yes	No	--	x	
551	Blue Oak <i>Quercus douglasii</i>	14.5	20	55	2	4	crown dieback	Yes	Yes - Half	7.2	x	
552	Blue Oak <i>Quercus douglasii</i>	25.2	16	65	2	4	crown dieback	Yes	Yes - Half	12.6	x	
553	Blue Oak <i>Quercus douglasii</i>	26.5	25	65	4	4		Yes	Yes - Full	26.5	x	
554	Blue Oak <i>Quercus douglasii</i>	26.6	25	65	1	3	crown dieback, nearly dead	Yes	No	--		0
555	Blue Oak <i>Quercus douglasii</i>	19.2	30	65	1	4	crown dieback	Yes	No	--		0
556	Blue Oak <i>Quercus douglasii</i>	17	35	60	2	3	codominant leaders, crown dieback	Yes	Yes - Half	8.5		0
557	Blue Oak <i>Quercus douglasii</i>	14.4	0	0	0	0	dead	No	No	--	x	
558	Blue Oak <i>Quercus douglasii</i>	16.3	0	0	0	0	dead	No	No	--	x	
559	Blue Oak <i>Quercus douglasii</i>	20.5	30	68	3	3	crown dieback, lean	Yes	Yes - Full	20.5		0
560	Blue Oak <i>Quercus douglasii</i>	28.7	35	75	3	4	codominant leaders, crown dieback	Yes	Yes - Full	28.7		0
561	Blue Oak <i>Quercus douglasii</i>	15.8, 19.8	25	68	4	4	codominant leaders	Yes	Yes - Full	35.6		0
562	Blue Oak <i>Quercus douglasii</i>	23.7	40	70	4	4		Yes	Yes - Full	23.7		

563	Blue Oak <i>Quercus douglasii</i>	33.5	20	70	2	2	Limb decay, trunk wound, trunk rot, damaged by limb of felled tree 564	Yes	Yes - Half	16.75	x	
564	Blue Oak <i>Quercus douglasii</i>	32.1	25	75	0	0	Felled - (due to storm event)	No	No	--	x	
565	Blue Oak <i>Quercus douglasii</i>	30	40	80	0	0	Felled - (due to storm event)	No	No	--	x	
566	Blue Oak <i>Quercus douglasii</i>	27.3	28	70	2	4	codominant leaders	Yes	Yes - Half	13.65	x	
567	Blue Oak <i>Quercus douglasii</i>	26.6	35	75	4	4	lean	Yes	Yes - Full	26.6	x	
568	Blue Oak <i>Quercus douglasii</i>	35.5	40	75	5	4		Yes	Yes - Full	35.5	x	
569	Blue Oak <i>Quercus douglasii</i>	41	50	80	1	2	Limb failure, asymmetrical canopy, codominant leader failure, failure	Yes	Yes - Full	41	x	
570	Blue Oak <i>Quercus douglasii</i>	5.6, 5.7	7	14	4	4	codominant leaders	No	No	--	x	
571	Ornamental cherry <i>Prunus sp.</i>	5.8, 4, 3	11	15	4	3	codominant leaders	No	No	--		
572	Chinese hackberry <i>Celtis sinensis</i>	7.2	16	22	5	4		No	No	--		
573	Blue Oak <i>Quercus douglasii</i>	7.2	7	11	5	5		Yes	Yes - Full	7.2		
574	Blue Oak <i>Quercus douglasii</i>	6.1	8	12	5	5		Yes	Yes - Full	6.1	x	
575	Fremont's cottonwood <i>Populus fremontii</i>	20, 35	35	65	4	4	codominant leaders, included bark	No	No	--		
576	Blue Oak <i>Quercus douglasii</i>	5.6	5	11	4	4		No	No	--		
577	Blue Oak	6.7	8	17	4	4		Yes	Yes - Full	6.7		

577	<i>Quercus douglasii</i>	6.7	8	17	4	4		Yes	Yes - Full	6.7		
578	Blue Oak <i>Quercus douglasii</i>	7.3	10	15	4	3		Yes	Yes - Full	7.3		
579	Blue Oak <i>Quercus douglasii</i>	4.5	7	11	5	5		No	No	--		
580	Blue Oak <i>Quercus douglasii</i>	6	6	10	5	5		Yes	Yes - Full	6	x	
581	Blue Oak <i>Quercus douglasii</i>	4, 4.8	11	12	5	4	codominant leaders, included bark	No	No	--		
582	Chinese Tallow <i>Triadica sebifera</i>	2.8, 4.7, 3.	10	15	4	3	codominant leaders	No	No	--		
583	Blue Oak <i>Quercus douglasii</i>	6.5	6	11	4	4		Yes	Yes - Full	6.5	x	
584	Blue Oak <i>Quercus douglasii</i>	6.2	7	16	4	4		Yes	Yes - Full	6.2	x	
585	Blue Oak <i>Quercus douglasii</i>	4.5	4	11	5	5		No	No	--	x	
586	Blue Oak <i>Quercus douglasii</i>	2.2, 2.8, 3.	6	12	4	3	codominant leaders, included	No	No	--	x	
587	Blue Oak <i>Quercus douglasii</i>	6.5, 6	10	18	4	3	included bark, codominant leaders	Yes	Yes - Full	8.8	x	
588	Blue Oak <i>Quercus douglasii</i>	8.6, 6.7	11	19	5	4	codominant leaders	Yes	Yes - Full	10.9	x	
589	Interior Live Oak <i>Quercus wislizeni</i>	5.5, 5, 2.3	9	9	4	3	codominant leaders	No	No	--	x	
590	Blue Oak <i>Quercus douglasii</i>	6	7	15	5	5		Yes	Yes - Full	6	x	
591	Blue Oak <i>Quercus douglasii</i>	6.5	5	12	4	4		Yes	Yes - Full	6.5	x	
592	Blue Oak <i>Quercus douglasii</i>	4.5	6	12	4	4	codominant leaders	No	No	--	x	
593	Blue Oak	4	4	12	5	5		No	No	--	x	

593	<i>Quercus douglasii</i>	4	4	12	5	5		No	No	--		
594	Blue Oak <i>Quercus douglasii</i>	6.2	6	13	5	4		Yes	Yes - Full	6.2	x	
595	Blue Oak <i>Quercus douglasii</i>	5	6	12	4	4		No	No	--	x	
596	Fremont's cottonwood <i>Populus fremontii</i>	4.9, 6.7, 5.1	12	15	4	3	codominant leaders	No	No	--	x	
597	Fremont's cottonwood <i>Populus fremontii</i>	4.3	5	18	5	4		No	No	--	x	
598	Fremont's cottonwood <i>Populus fremontii</i>	4.7, 6.2, 2.1	11	19	5	3	codominant leaders	No	No	--	x	
599	Blue Oak <i>Quercus douglasii</i>	5.9	4	16	4	4		No	No	--	x	
600	Fremont's cottonwood <i>Populus fremontii</i>	8.6	11	20	5	5		No	No	--	x	
803	Blue Oak <i>Quercus douglasii</i>	6.4	6	18	5	4		Yes	Yes - Full	6.4		0
804	Blue Oak <i>Quercus douglasii</i>	10.9	11	22	5	4		Yes	Yes - Full	10.9		0
805	Blue Oak <i>Quercus douglasii</i>	7.2	5	16	5	5		Yes	Yes - Full	7.2		
806	Blue Oak <i>Quercus douglasii</i>	4.2, 5.5	7	11	4	3	codominant leaders	No	No	--	x	
807	Blue Oak <i>Quercus douglasii</i>	6.7	5	11	4	3	codominant leaders	Yes	Yes - Full	6.7	x	
808	Blue Oak <i>Quercus douglasii</i>	18.6	19	65	3	4	lean	Yes	Yes - Full	18.6		
809	Interior Live Oak <i>Quercus wislizeni</i>	15.7	6	13	2	1	trunk wound, trunk rot, lean	Yes	Yes - Half	7.8	x	
810	Blue Oak <i>Quercus douglasii</i>	32.5	25	65	5	4		Yes	Yes - Full	32.5		
811	Blue Oak	11.4	11	35	5	4		Yes	Yes - Full	11.4	x	

811	<i>Quercus douglasii</i>	14.4	11	35	3	4		Yes	Yes - Full	14.4		
812	Blue Oak <i>Quercus douglasii</i>	15.3	9	40	3	4	exposed roots	Yes	Yes - Full	15.3	x	
813	Blue Oak <i>Quercus douglasii</i>	12	12	32	4	4	included bark	Yes	Yes - Full	12	x	
814	Blue Oak <i>Quercus douglasii</i>	11.8	16	35	4	2	lean	Yes	Yes - Full	11.8		
815	Blue Oak <i>Quercus douglasii</i>	13	16	36	4	3	lean	Yes	Yes - Full	13	x	
816	Blue Oak <i>Quercus douglasii</i>	22	25	60	5	4		Yes	Yes - Full	22	x	
817	Blue Oak <i>Quercus douglasii</i>	14.4	18	25	1	1	crown dieback, lean	Yes	No	--	x	
818	Blue Oak <i>Quercus douglasii</i>	28	35	70	4	3	codominant leaders	Yes	Yes - Full	28	x	
819	Blue Oak <i>Quercus douglasii</i>	20	33	65	4	4	codominant leaders	Yes	Yes - Full	20	x	
820	Blue Oak <i>Quercus douglasii</i>	5.2	5	8	5	4		No	No	--	x	
821	Blue Oak <i>Quercus douglasii</i>	17.8	25	60	2	4	crown dieback	Yes	Yes - Half	8.7		0
822	Blue Oak <i>Quercus douglasii</i>	12.2, 9.2	18	20	1	1	crown dieback, lean, codominant leaders	Yes	No	--		0
823	Blue Oak <i>Quercus douglasii</i>	17	30	68	3	2	codominant leaders	Yes	Yes - Full	17		0
824	Blue Oak <i>Quercus douglasii</i>	9.5	10	35	3	4	crown dieback	Yes	Yes - Full	9.5		0
825	Blue Oak <i>Quercus douglasii</i>	9.6, 8.8	0	0	1	1	dead	No	No	--	x	
826	Blue Oak <i>Quercus douglasii</i>	7.6, 6.8	0	0	1	1	dead	No	No	--	x	
827	Blue Oak	12.5	15	35	1	1	crown dieback, lean	Yes	No			

827	<i>Quercus douglasii</i>	12.9	19	39	1	1	crown dieback, lean	Yes	No	--		0
828	Blue Oak <i>Quercus douglasii</i>	18.5	17	45	1	1	crown dieback	Yes	No	--		0
829	Blue Oak <i>Quercus douglasii</i>	12.8	25	10	4	1	lean	Yes	Yes - Full	12.8	x	
830	Blue Oak <i>Quercus douglasii</i>	16.6	20	35	4	2	lean	Yes	Yes - Full	16.6		0
831	Blue Oak <i>Quercus douglasii</i>	25	35	70	0	0	Felled	No	No	--	x	
832	Blue Oak <i>Quercus douglasii</i>	5.8	5	17	4	3		No	No	--		0
833	Blue Oak <i>Quercus douglasii</i>	9	7	20	4	4	codominant leaders	Yes	Yes - Full	9		0
834	Blue Oak <i>Quercus douglasii</i>	14.1	40	68	3	3	crown dieback, lean	Yes	Yes - Full	14.1		0
835	Interior Live Oak <i>Quercus wislizeni</i>	6.4, 4.6	7	16	5	4	codominant leaders	Yes	Yes - Full	7.9	x	
836	Interior Live Oak <i>Quercus wislizeni</i>	7.7, 5.5	11	19	5	4	codominant leaders	Yes	Yes - Full	9.4	x	
837	Blue Oak <i>Quercus douglasii</i>	5.7, 2.7	6	12	5	3	codominant leaders, included bark	No	No	--	x	
838	Blue Oak <i>Quercus douglasii</i>	12.5	7	18	4	4	included bark	Yes	Yes - Full	12.5	x	
839	Gooding's black willow <i>Salix gooddingii</i>	2, 10.4, 7	10	18	2	3	included bark, crown dieback	No	No	--		
840	Gooding's black willow <i>Salix gooddingii</i>	8.9, 9	11	16	2	2	included bark, crown dieback	No	No	--		
841	Blue Oak <i>Quercus douglasii</i>	9.5, 5.6	13	21	4	4	codominant leaders	Yes	Yes - Full	11	x	
842	Fremont's cottonwood <i>Populus fremontii</i>	5.2, 5	7	16	4	4	codominant leaders	No	No	--	x	
843	Blue Oak	6.3	6	18	5	5		Yes	Yes - Full	6.3	x	

843	<i>Quercus douglasii</i>	6.3	0	10	5	5		Yes	Yes - Full	0.3		
844	Fremont's cottonwood <i>Populus fremontii</i>	6.8	5	17	5	5		No	No	--	X	
845	Blue Oak <i>Quercus douglasii</i>	5.9, 2.7	8	13	5	4	codominant leaders	No	No	--	X	

	Trees to be removed
	Trees to remain
	Trees to remain, dripline encroachment

March 22, 2022

Mr. Ryan Patterson
President
Vintage Housing
369 San Miguel Drive, Suite 135
Newport Beach, CA 92660

Subject: Arborist Inventory Letter Report for 102 Natoma Street, City of Folsom, CA

Dear Mr. Patterson:

HELIX Environmental Planning, Inc. (HELIX) has prepared this arborist inventory letter report in support of the proposed 102 Natoma Street project (proposed project) on behalf of Vintage Housing. The purpose of the arborist inventory was to evaluate protected trees and/or other sensitive biological habitats to occur on the project site and/or be impacted by the proposed project. This letter report describes the methods and results of our arborist inventory and provides recommended mitigation measures to reduce impacts.

INTRODUCTION

Project Location and Description

The approximately 4.86-acre project site (also referred to as the Study Area) is located within the City of Folsom approximately 350-feet northeast of the intersection of Fargo Way and Natoma Street in Sacramento County, CA (Figure 1). The approximate center of the site is latitude 38.683517 and longitude -121.158532, NAD 83. The approximate boundary of the project site depicted on aerial imagery is included as Figure 2. All figures are included in Attachment A.

The proposed project intends to construct and operate a senior living community on the subject parcel.

METHODS

Studies conducted in support of this report included an arborist inventory as conducted by an arborist certified by the International Society of Arboriculture (ISA).

Arborist Inventory

The arborist inventory was conducted on September 24, 2020 by HELIX Biologist and ISA Certified Arborist Stephanie McLaughlin, M.S. (WE-12922A). Woody plants in the project area with a trunk diameter of at least 4-inches at 4.5-feet above grade (diameter at breast height) were located and assessed. A diameter tape or calipers were used to verify each trunk diameter. The measurement from the trunk to the end of the longest lateral limb was estimated and used as the dripline radius. All

March 22, 2022

accessible trees were numbered with a pre-printed aluminum tag. Approximate trunk locations were mapped using a sub-meter accurate global positioning system (GPS). Approximate tree locations are identified in Figure 3 and detailed tree data may be found in Attachment B.

The condition of each tree was rated on a scale of 1 to 5, with 1 indicating poor condition, 3 indicating fair condition, and 5 indicating good condition. The rating considers factors health and structural factors such as the size, color, and density of the foliage; the amount of deadwood within the canopy; bud viability; evidence of wound closure; and the presence or evidence of stress, disease, nutrient deficiency, and/or insect infestation; trunk and branch configuration; canopy balance; the presence of included bark and other structural defects such as decay; and the potential for structural failure.

RESULTS

Environmental Setting

The project site is a vacant, wooded parcel within the City of Folsom. The site is generally bordered by residential parcels and small commercial buildings, as well as the paved Oak Parkway cycling trail. Folsom State Prison is located north of the project site, on the opposite side of Natoma Street.

Site Conditions

The entire project site is considered to be blue oak woodland, surrounded by urban development. Historic aerial imagery shows that the project site has changed little since 1952 and has consisted of oak woodland with a drainage running through the site. The site is moderately disturbed. There is evidence of recreational use by bicycles and the site has a constructed dirt track with several constructed dirt ramps and jumps for bicycles, presumably constructed by kids from the adjacent residential neighborhood. It also has debris piles and other evidence of use by transients.

Habitat Types/Vegetation Communities

Habitat types/vegetation communities in the project site include blue oak woodland and ephemeral and intermittent drainages. Representative site photographs are included as Attachment C.

Blue Oak Woodland

Blue oak woodland is the predominant habitat type in the project site and occupies 4.82-acres within the site. Vegetation in the blue oak woodland habitat consists primarily of blue oak (*Quercus douglasii*) and interior live oak (*Quercus wislizeni*), with some non-native species including mulberry (*Morus alba*), Chinese tallow (*Triadica sebifera*), Chinese hackberry (*Celtis sinensis*), and ornamental cherry (*Prunus* sp.). The understory is dominated by non-native grasses and forbs, including cultivated oats (*Avena* sp.), Italian rye grass (*Festuca perennis*), and yellow star-thistle (*Centaurea solstitialis*). Disturbed areas, such as bike trails and jumps occur beneath the canopy of the oak woodland, and there is a significant amount of trash and debris in these areas. A small segment of the bike trail occurs in this habitat.

Topography

The terrain in the project site and vicinity is locally flat. The elevation on the project site ranges from 350- to 370-feet above mean sea level and has low to moderate sloping from east to west.

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Soils

The project site includes two soil mapping units (NRCS 2020): Argonaut-Auburn-Urban land complex, 3 to 8 percent slopes and Argonaut-Auburn complex, 3 to 8 percent slopes. Soils on the National Hydric Soils List for Sacramento County (NRCS 2015) are not present in the project site.

Both soils occur on hills and are derived from residuum weathered from metamorphic rock. A typical profile of the Argonaut-Auburn-Urban land complex and Argonaut-Auburn complex, 3 to 8 percent slopes include loam from 0- to 14-inches, clay from 14- to 29-inches and bedrock from 29- to 33-inches; the depth to water table is more than 80-inches.

Special-Status Plant Species

No special-status plant species were determined to have the potential to occur on the project site or be impacted by the proposed project. Of the 17 regionally occurring special-status plant species that were identified during the database queries and desktop review, the majority occur in wetland habitats such as vernal pools or seeps, which are absent from the site. Several others are limited to grassland or cismontane woodland habitats. Although the site contains blue oak woodland, the study area is located in an urban area dominated by non-native species that does not provide suitable habitat for special-status plant species. Therefore, no impacts to special-status plants are anticipated as a result of the proposed project.

Protected Trees

A total of 111 trees are present on the site, including 94 blue oaks, seven Fremont's cottonwoods (*Populus fremontii*), four interior live oaks, two Gooding's black willow (*Salix gooddingii*), one mulberry, one Chinese hackberry, one Chinese tallow, and one ornamental cherry (Figure 3). The City of Folsom regulates trees under Section 12.16 of the Folsom Municipal Code (Tree Preservation Ordinance). A permit is required to remove native oaks (defined as valley oak, blue oak, interior live oak, and coast live oak) measuring 6-inches in diameter at standard height (i.e., 54-inches above natural grade, DSH), or a multi-stemmed native oak measuring a total of 20-inches at DSH. For a tree with a common root system that branches at the ground, DSH is defined as the sum of the diameter of the largest trunk and one-half the cumulative diameter of the remaining trunks measured at 4.5-feet above natural grade. If protected trees will be removed by the proposed project, mitigation will be required per Section 12.16.150.

A total of 77 trees on the project site are considered protected by Folsom City Code. None of the Fremont's cottonwood, Chinese hackberry, Chinese tallow, mulberry, ornamental cherry or Gooding's black willow are protected. See Attachment B for additional data on the trees found on the project site.

RECOMMENDED MITIGATION MEASURES

Protected Trees

Of the 111 trees on the project site, 77 trees are considered protected by Folsom City Code. If protected trees will be removed by the proposed project mitigation will be required per Section 12.16.150.

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Protected trees rated 3, 4 or 5 shall be replaced at a ratio of one-inch equivalent for every one-inch of DSH removed as shown in Table 1. Protected trees rated 2 shall be replaced at a ratio of one-half-inch equivalent for every one-inch removed. Protected trees rated 0 or 1 require no replacement or any other mitigation. Mitigation for trees can be done through on-site replacement planting, payment of in-lieu fees, or a combination thereof.

Table 1: Tree Replacement Equivalency Table

Replacement Tree Size	DSH Equivalency
A sapling tree; or	0.5-inch DSH
Tree in container less than 15 gallons	0.5-inch DSH
15-gallon container tree	1-inch DSH
24-inch box tree	2-inch DSH
36-inch box tree	3-inch DSH

Of the 77 trees protected by Folsom City Code, only 65 trees require mitigation based on having a health rating of 5, 4, 3, or 2. Based on the DSH equivalency ratio, mitigation for a total of 935.6-inches is required if all protected trees subject to mitigation requirements are impacted.

SUMMARY/CONCLUSION

Protected Trees

Of the 111 trees on the project site, 77 trees are considered protected by Folsom City Code. If protected trees will be removed by the proposed project, mitigation will be required per Section 12.16.150. Of the 77 trees that are protected by Folsom City Code, only 65 trees require mitigation based on having a health rating of 5, 4, 3, or 2. Based on the DSH equivalency ratio, mitigation for a total of 935.6-inches is required if all protected trees subject to mitigation are impacted.

I appreciate the opportunity to assist you on this project. Feel free to contact me with any questions at 916-365-8712.



Stephen Stringer, M.S.
Principal Biologist/ Biology Group Manager

- Attachments:
A – Figures
B – Tree Inventory
C – Site Photographs

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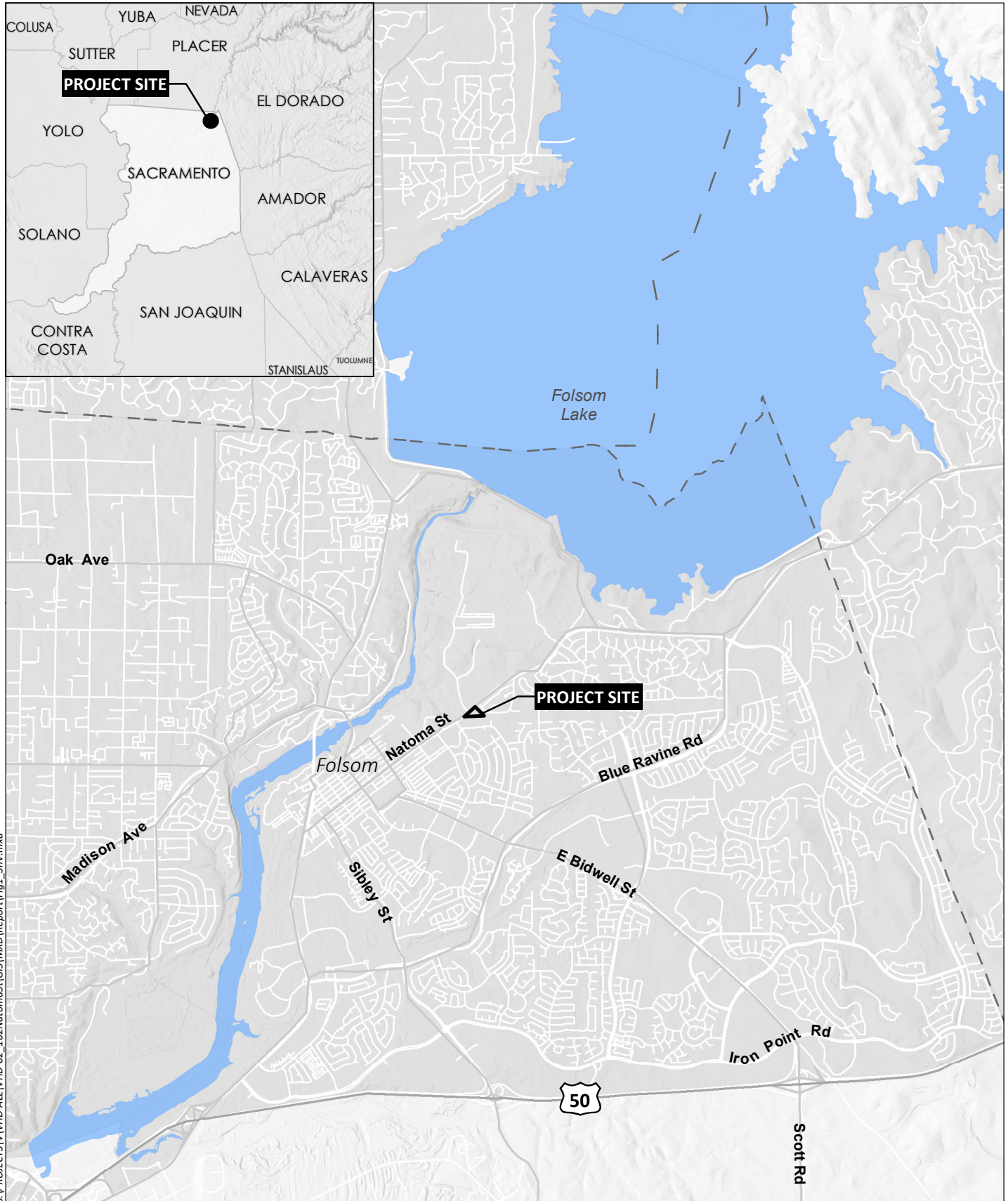
REFERENCES

California Native Plant Society (CNPS). 2020. Inventory of Rare and Endangered Plants (online edition, v8-03 0.39). Website <http://www.rareplants.cnps.org> [Accessed 1 October 2020].

NETR Online (NETR). 2020. Historic Aerials. <https://www.historicaerials.com/viewer>.

Attachment A

Figures



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Source: Base Map Layers (Esri, USGS, NGA, NASA); Data (Sacramento County 2018)


 Project Site (4.86 Acres)



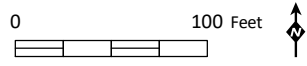
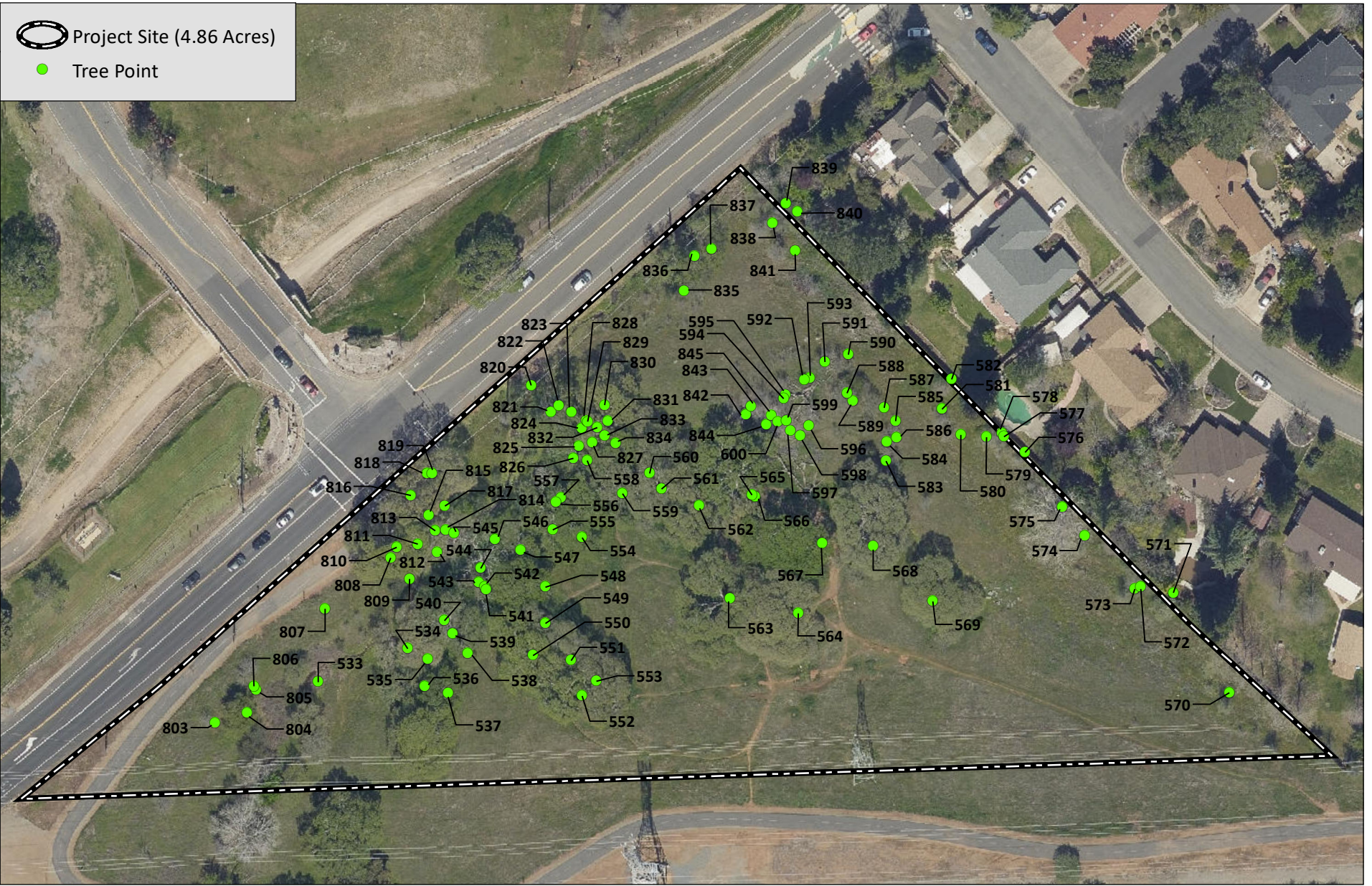
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Source: Base Map Layers (Maxar 2019)

-  Project Site (4.86 Acres)
-  Tree Point

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Source: Base Map Layers (Maxar 2019); Data (HELIX 2020)

Attachment B

Tree
Inventory

Attachment B – Tree Inventory

Tree Number	Species	DSH (in)	Dripline (ft)	Height (ft)	Health	Structure	Notes	Protected?	Mitigation?	Replace. Inches*
533	Blue Oak <i>Quercus douglasii</i>	17.8	17	58	5	4		Yes	Yes - Full	17.8
534	Blue Oak <i>Quercus douglasii</i>	14	25	65	5	3	lean	Yes	Yes – Full	14
535	Blue Oak <i>Quercus douglasii</i>	20.4	35	75	5	4		Yes	Yes - Full	20.4
536	Blue Oak <i>Quercus douglasii</i>	15	18	55	2	3	crown dieback, lean	Yes	Yes - Half	7.5
537	Blue Oak <i>Quercus douglasii</i>	16.5	30	72	3	4	crown dieback	Yes	Yes - Full	16.5
538	Blue Oak <i>Quercus douglasii</i>	18.4	20	70	2	4	crown dieback	Yes	Yes - Half	9.2
539	Blue Oak <i>Quercus douglasii</i>	16.9	25	70	2	5	Tree is in decline	Yes	Yes - Half	8.5
540	Blue Oak <i>Quercus douglasii</i>	16.7	25	65	2	3	crown dieback, lean	Yes	Yes- Half	8.3
541	Blue Oak <i>Quercus douglasii</i>	11.5	20	15	1	1	crown dieback, lean	Yes	No	--
542	Blue Oak <i>Quercus douglasii</i>	12.6	20	15	1	1	crown dieback, lean, nearly dead	Yes	No	--
543	Blue Oak <i>Quercus douglasii</i>	21.5	25	45	2	3	crown dieback, included bark, lean	Yes	Yes- Half	10.7
544	Blue Oak <i>Quercus douglasii</i>	17.7	0	0	0	0	dead	No	No	--
545	Mulberry <i>Morus alba</i>	5.3, 3, 3, 3, 2	15	15	4	3	codominant leaders	No	No	--
546	Blue Oak <i>Quercus douglasii</i>	13.2	20	55	1	4	crown dieback, nearly dead	Yes	No	--
547	Blue Oak <i>Quercus douglasii</i>	16.1	30	58	2	4	crown dieback	Yes	Yes - Half	8
548	Blue Oak <i>Quercus douglasii</i>	19.8	28	70	3	4	crown dieback	Yes	No	--
549	Blue Oak <i>Quercus douglasii</i>	17.8	17	55	1	4	crown dieback	Yes	No	--
550	Blue Oak	22	25	68	1	4	crown dieback	Yes	No	--

Attachment B – Tree Inventory

	<i>Quercus douglasii</i>									
551	Blue Oak <i>Quercus douglasii</i>	14.5	20	55	2	4	crown dieback	Yes	Yes - Half	7.2
552	Blue Oak <i>Quercus douglasii</i>	25.2	16	65	2	4	crown dieback	Yes	Yes - Half	12.6
553	Blue Oak <i>Quercus douglasii</i>	26.5	25	65	4	4		Yes	Yes - Full	26.5
554	Blue Oak <i>Quercus douglasii</i>	26.6	25	65	1	3	crown dieback, nearly dead	Yes	No	--
555	Blue Oak <i>Quercus douglasii</i>	19.2	30	65	1	4	crown dieback	Yes	No	--
556	Blue Oak <i>Quercus douglasii</i>	17	35	60	2	3	codominant leaders, crown dieback	Yes	Yes – Half	8.5
557	Blue Oak <i>Quercus douglasii</i>	14.4	0	0	0	0	dead	No	No	--
558	Blue Oak <i>Quercus douglasii</i>	16.3	0	0	0	0	dead	No	No	--
559	Blue Oak <i>Quercus douglasii</i>	20.5	30	68	3	3	crown dieback, lean	Yes	Yes – Full	20.5
560	Blue Oak <i>Quercus douglasii</i>	28.7	35	75	3	4	codominant leaders, crown dieback	Yes	Yes – Full	28.7
561	Blue Oak <i>Quercus douglasii</i>	15.8, 19.8	25	68	4	4	codominant leaders	Yes	Yes – Full	35.6
562	Blue Oak <i>Quercus douglasii</i>	23.7	40	70	4	4		Yes	Yes – Full	23.7
563	Blue Oak <i>Quercus douglasii</i>	33.5	20	70	2	3	trunk wound, trunk rot	Yes	Yes – Half	16.75
564	Blue Oak <i>Quercus douglasii</i>	32.1	25	75	5	5		Yes	Yes - Full	32.1
565	Blue Oak <i>Quercus douglasii</i>	30	40	80	2	4	crown dieback	Yes	Yes - Half	15
566	Blue Oak <i>Quercus douglasii</i>	27.3	28	70	2	4	codominant leaders	Yes	Yes – Half	13.65
567	Blue Oak <i>Quercus douglasii</i>	26.6	35	75	4	4	lean	Yes	Yes - Full	26.6
568	Blue Oak <i>Quercus douglasii</i>	35.5	40	75	5	4		Yes	Yes – Full	35.5

Attachment B – Tree Inventory

569	Blue Oak <i>Quercus douglasii</i>	41	50	80	4	4	codominant leaders, included bark, trunk rot	Yes	Yes - Full	41
570	Blue Oak <i>Quercus douglasii</i>	5.6, 5.7	7	14	4	4	codominant leaders	No	No	--
571	Ornamental cherry <i>Prunus sp.</i>	6, 6, 5.8, 4, 3.5, 2	11	15	4	3	codominant leaders	No	No	--
572	Chinese hackberry <i>Celtis sinensis</i>	7.2	16	22	5	4		No	No	--
573	Blue Oak <i>Quercus douglasii</i>	7.2	7	11	5	5		Yes	Yes – Full	7.2
574	Blue Oak <i>Quercus douglasii</i>	6.1	8	12	5	5		Yes	Yes - Full	6.1
575	Fremont’s cottonwood <i>Populus fremontii</i>	20, 35	35	65	4	4	codominant leaders, included bark	No	No	--
576	Blue Oak <i>Quercus douglasii</i>	5.6	5	11	4	4		No	No	--
577	Blue Oak <i>Quercus douglasii</i>	6.7	8	17	4	4		Yes	Yes – Full	6.7
578	Blue Oak <i>Quercus douglasii</i>	7.3	10	15	4	3		Yes	Yes - Full	7.3
579	Blue Oak <i>Quercus douglasii</i>	4.5	7	11	5	5		No	No	--
580	Blue Oak <i>Quercus douglasii</i>	6	6	10	5	5		Yes	Yes - Full	6
581	Blue Oak <i>Quercus douglasii</i>	4, 4.8	11	12	5	4	codominant leaders, included bark	No	No	--
582	Chinese Tallow <i>Triadica sebifera</i>	4.8, 4.7, 3.7	10	15	4	3	codominant leaders	No	No	--
583	Blue Oak <i>Quercus douglasii</i>	6.5	6	11	4	4		Yes	Yes – Full	6.5
584	Blue Oak <i>Quercus douglasii</i>	6.2	7	16	4	4		Yes	Yes - Full	6.2
585	Blue Oak <i>Quercus douglasii</i>	4.5	4	11	5	5		No	No	--
586	Blue Oak <i>Quercus douglasii</i>	4.2, 2.8, 3.5	6	12	4	3	codominant leaders, included	No	No	--

Attachment B – Tree Inventory

587	Blue Oak <i>Quercus douglasii</i>	6.5, 6	10	18	4	3	included bark, codominant leaders	Yes	Yes – Full	8.8
588	Blue Oak <i>Quercus douglasii</i>	8.6, 6.7	11	19	5	4	codominant leaders	Yes	Yes – Full	10.9
589	Interior Live Oak <i>Quercus wislizeni</i>	5.5, 5, 2.3	9	9	4	3	codominant leaders	No	No	--
590	Blue Oak <i>Quercus douglasii</i>	6	7	15	5	5		Yes	Yes – Full	6
591	Blue Oak <i>Quercus douglasii</i>	6.5	5	12	4	4		Yes	Yes - Full	6.5
592	Blue Oak <i>Quercus douglasii</i>	4.5	6	12	4	4	codominant leaders	No	No	--
593	Blue Oak <i>Quercus douglasii</i>	4	4	12	5	5		No	No	--
594	Blue Oak <i>Quercus douglasii</i>	6.2	6	13	5	4		Yes	Yes - Full	6.2
595	Blue Oak <i>Quercus douglasii</i>	5	6	12	4	4		No	No	--
596	Fremont's cottonwood <i>Populus fremontii</i>	6.9, 6.7, 5.7	12	15	4	3	codominant leaders	No	No	--
597	Fremont's cottonwood <i>Populus fremontii</i>	4.3	5	18	5	4		No	No	--
598	Fremont's cottonwood <i>Populus fremontii</i>	5.7, 6.2, 2.5	11	19	5	3	codominant leaders	No	No	--
599	Blue Oak <i>Quercus douglasii</i>	5.9	4	16	4	4		No	No	--
600	Fremont's cottonwood <i>Populus fremontii</i>	8.6	11	20	5	5		No	No	--
803	Blue Oak <i>Quercus douglasii</i>	6.4	6	18	5	4		Yes	Yes – Full	6.4
804	Blue Oak <i>Quercus douglasii</i>	10.9	11	22	5	4		Yes	Yes – Full	10.9
805	Blue Oak <i>Quercus douglasii</i>	7.2	5	16	5	5		Yes	Yes - Full	7.2
806	Blue Oak <i>Quercus douglasii</i>	4.2, 5.5	7	11	4	3	codominant leaders	No	No	--
807	Blue Oak	6.7	5	11	4	3	codominant leaders	Yes	Yes - Full	6.7

Attachment B – Tree Inventory

	<i>Quercus douglasii</i>									
808	Blue Oak <i>Quercus douglasii</i>	18.6	19	65	3	4	lean	Yes	Yes - Full	18.6
809	Interior Live Oak <i>Quercus wislizeni</i>	15.7	6	13	2	1	trunk wound, trunk rot, lean	Yes	Yes - Half	7.8
810	Blue Oak <i>Quercus douglasii</i>	32.5	25	65	5	4		Yes	Yes - Full	32.5
811	Blue Oak <i>Quercus douglasii</i>	14.4	11	35	5	4		Yes	Yes - Full	14.4
812	Blue Oak <i>Quercus douglasii</i>	15.3	9	40	3	4	exposed roots	Yes	Yes - Full	15.3
813	Blue Oak <i>Quercus douglasii</i>	12	12	32	4	4	included bark	Yes	Yes - Full	12
814	Blue Oak <i>Quercus douglasii</i>	11.8	16	35	4	2	lean	Yes	Yes – Full	11.8
815	Blue Oak <i>Quercus douglasii</i>	13	16	36	4	3	lean	Yes	Yes – Full	13
816	Blue Oak <i>Quercus douglasii</i>	22	25	60	5	4		Yes	Yes - Full	22
817	Blue Oak <i>Quercus douglasii</i>	14.4	18	25	1	1	crown dieback, lean	Yes	No	--
818	Blue Oak <i>Quercus douglasii</i>	28	35	70	4	3	codominant leaders	Yes	Yes – Full	28
819	Blue Oak <i>Quercus douglasii</i>	20	33	65	4	4	codominant leaders	Yes	Yes - Full	20
820	Blue Oak <i>Quercus douglasii</i>	5.2	5	8	5	4		No	No	--
821	Blue Oak <i>Quercus douglasii</i>	17.8	25	60	2	4	crown dieback	Yes	Yes - Half	8.7
822	Blue Oak <i>Quercus douglasii</i>	12.2, 9.2	18	20	1	1	crown dieback, lean, codominant leaders	Yes	No	--
823	Blue Oak <i>Quercus douglasii</i>	17	30	68	3	2	codominant leaders	Yes	Yes - Full	17
824	Blue Oak <i>Quercus douglasii</i>	9.5	10	35	3	4	crown dieback	Yes	Yes - Full	9.5
825	Blue Oak <i>Quercus douglasii</i>	9.6, 8.8	0	0	1	1	dead	No	No	--

Attachment B – Tree Inventory

826	Blue Oak <i>Quercus douglasii</i>	7.6, 6.8	0	0	1	1	dead	No	No	--
827	Blue Oak <i>Quercus douglasii</i>	12.5	15	35	1	1	crown dieback, lean	Yes	No	--
828	Blue Oak <i>Quercus douglasii</i>	18.5	17	45	1	1	crown dieback	Yes	No	--
829	Blue Oak <i>Quercus douglasii</i>	12.8	25	10	4	1	lean	Yes	Yes - Full	12.8
830	Blue Oak <i>Quercus douglasii</i>	16.6	20	35	4	2	lean	Yes	Yes - Full	16.6
831	Blue Oak <i>Quercus douglasii</i>	25	35	70	4	4	trunk wound, lean	Yes	Yes - Full	25
832	Blue Oak <i>Quercus douglasii</i>	5.8	5	17	4	3		No	No	--
833	Blue Oak <i>Quercus douglasii</i>	9	7	20	4	4	codominant leaders	Yes	Yes - Full	9
834	Blue Oak <i>Quercus douglasii</i>	14.1	40	68	3	3	crown dieback, lean	Yes	Yes - Full	14.1
835	Interior Live Oak <i>Quercus wislizeni</i>	6.4, 4.6	7	16	5	4	codominant leaders	Yes	Yes – Full	7.9
836	Interior Live Oak <i>Quercus wislizeni</i>	7.7, 5.5	11	19	5	4	codominant leaders	Yes	Yes – Full	9.4
837	Blue Oak <i>Quercus douglasii</i>	5.7, 2.7	6	12	5	3	codominant leaders, included bark	No	No	--
838	Blue Oak <i>Quercus douglasii</i>	12.5	7	18	4	4	included bark	Yes	Yes - Full	12.5
839	Gooding’s black willow <i>Salix gooddingii</i>	9.2, 10.4, 7.2	10	18	2	3	included bark, crown dieback	No	No	--
840	Gooding’s black willow <i>Salix gooddingii</i>	8.9, 9	11	16	2	2	included bark, crown dieback	No	No	--
841	Blue Oak <i>Quercus douglasii</i>	9.5, 5.6	13	21	4	4	codominant leaders	Yes	Yes – Full	11
842	Fremont’s cottonwood <i>Populus fremontii</i>	5.2, 5	7	16	4	4	codominant leaders	No	No	--
843	Blue Oak <i>Quercus douglasii</i>	6.3	6	18	5	5		Yes	Yes – Full	6.3
844	Fremont’s cottonwood	6.8	5	17	5	5		No	No	--

Attachment B – Tree Inventory

	<i>Populus fremontii</i>									
845	Blue Oak <i>Quercus douglasii</i>	5.9, 2.7	8	13	5	4	codominant leaders	No	No	--
							Totals:	77 trees	65 trees	935.6 inches

* = Indicates estimated mitigation inches that would be required if tree is removed to be determined by the City of Folsom. No impact assessment was conducted.

Attachment C

Site
Photographs



Photo 1: View of intermittent drainage feature running through blue oak woodland. Photo taken facing northeast.



Photo 2: View of intermittent drainage feature running through blue oak woodland. Photo taken facing west.



Photo 3: View of cycling trail and traffic on Natoma Street, along the northern boundary of the project site. Photo taken facing west.



Photo 4: View along the boundary of the site at Natoma Street. Photo taken facing northeast.



Photo 5: View of electrical towers along the southern boundary of the project site. Photo taken facing southwest.



Photo 6: View of blue oak woodland habitat on the project site. Photo taken facing west.



Photo 7: View of informal bike trails and jumps constructed beneath the canopy of oak trees. Photo taken facing south.



Photo 8: View of the intermittent drainage running through the project site. Photo taken facing northeast.



Photo 9: View of the ephemeral drainage running through the project site. Photo taken facing southeast.



Photo 10: View of the "Y" intersection of the intermittent and ephemeral drainages on the project site. Photo taken facing west.