

BRUCE ROAD RECONSTRUCTION
PROJECT CONSTRUCTION APPROVAL CHECKLIST

CHECK BOX	DESCRIPTION	CITY REP. INITIALS	DATE(S)
☐	PRE-CONSTRUCTION MEETING		
☐	MATERIAL SUBMITTAL PACKAGE (DIGITAL COPY OK FOR INITIAL- UPON APPROVAL, PROVIDE APPROVED HARD COPIES : 2 COPIES TO CITY, 1 COPY TO DEVELOPER)		
☐	AFTER MASS GRADING THE CONTRACTOR SHALL OBTAIN A SOILS REPORT WITH RECOMMENDATIONS PER THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) SOILS MANAGEMENT REPORT NOTE ON THE PLANTING PLAN. SUBMIT TO CITY REPRESENTATIVE.		
☐	SITE LAYOUT- CHALK OR OTHERWISE MARK THE LAYOUT OF ALL CONCRETE FLATWORK, WALLS, ETC FOR REVIEW AND APPROVAL PRIOR TO POURING ANY CONCRETE. APPLICABLE?: ☒ NO ☐ YES		
☐	CERTIFICATION OF BACKFLOW PREVENTER 'A'. CONTRACTOR TO PROVIDE DOCUMENTATION TO CITY REPRESENTATIVE.		
☐	CERTIFICATION OF BACKFLOW PREVENTER 'B'. CONTRACTOR TO PROVIDE DOCUMENTATION TO CITY REPRESENTATIVE.		
☐	CERTIFICATION OF BACKFLOW PREVENTER 'C'. CONTRACTOR TO PROVIDE DOCUMENTATION TO CITY REPRESENTATIVE.		
☐	WATER METER POINT OF CONNECTION 'A'. CONTRACTOR TO COORDINATE WITH PROJECT OWNER, CITY UTILITY LIAISON, AND UTILITY REPRESENTATIVE FOR INSTALLATION. CONTRACTOR TO CONTACT CITY REPRESENTATIVE FOR OBSERVATION TO VERIFY.		
☐	WATER METER POINT OF CONNECTION 'B'. CONTRACTOR TO COORDINATE WITH PROJECT OWNER, CITY UTILITY LIAISON, AND UTILITY REPRESENTATIVE FOR INSTALLATION. CONTRACTOR TO CONTACT CITY REPRESENTATIVE FOR OBSERVATION TO VERIFY.		
☐	WATER METER POINT OF CONNECTION 'C'. CONTRACTOR TO COORDINATE WITH PROJECT OWNER, CITY UTILITY LIAISON, AND UTILITY REPRESENTATIVE FOR INSTALLATION. CONTRACTOR TO CONTACT CITY REPRESENTATIVE FOR OBSERVATION TO VERIFY.		
☐	ELECTRICAL POINT OF CONNECTION 'A'. CONTRACTOR TO COORDINATE WITH PROJECT OWNER, CITY UTILITY LIAISON, AND UTILITY REPRESENTATIVE FOR INSTALLATION. CONTRACTOR TO CONTACT CITY REPRESENTATIVE FOR OBSERVATION TO VERIFY.		
☐	ELECTRICAL POINT OF CONNECTION 'B'. CONTRACTOR TO COORDINATE WITH PROJECT OWNER, CITY UTILITY LIAISON, AND UTILITY REPRESENTATIVE FOR INSTALLATION. CONTRACTOR TO CONTACT CITY REPRESENTATIVE FOR OBSERVATION TO VERIFY.		
☐	ELECTRICAL POINT OF CONNECTION 'C'. CONTRACTOR TO COORDINATE WITH PROJECT OWNER, CITY UTILITY LIAISON, AND UTILITY REPRESENTATIVE FOR INSTALLATION. CONTRACTOR TO CONTACT CITY REPRESENTATIVE FOR OBSERVATION TO VERIFY.		
☐	CONTROLLER COMMUNICATION POINT OF CONNECTION 'A'. VERIFY LOCATION. CONTRACTOR RESPONSIBLE TO CONTACT CITY OF CHICO PARK DEPARTMENT TO OBTAIN A TELECOMMUNICATION CONNECTION AND FOR THE CONNECTION OF THE CONTROLLER TO THE INTERNET. CONTRACTOR TO CONTACT CITY REPRESENTATIVE FOR OBSERVATION. ☒ WIRELESS ☐ HARDWIRE CABLE ☐ HARDWIRE TELEPHONE ☐ OTHER(SPECIFY): ☐ NONE		
☐	CONTROLLER COMMUNICATION POINT OF CONNECTION 'B'. VERIFY LOCATION. CONTRACTOR RESPONSIBLE TO CONTACT CITY OF CHICO PARK DEPARTMENT TO OBTAIN A TELECOMMUNICATION CONNECTION AND FOR THE CONNECTION OF THE CONTROLLER TO THE INTERNET. CONTRACTOR TO CONTACT CITY REPRESENTATIVE FOR OBSERVATION. ☒ WIRELESS ☐ HARDWIRE CABLE ☐ HARDWIRE TELEPHONE ☐ OTHER(SPECIFY): <u>RADIO</u> ☐ NONE		
☐	CONTROLLER COMMUNICATION POINT OF CONNECTION 'C'. VERIFY LOCATION. CONTRACTOR RESPONSIBLE TO CONTACT CITY OF CHICO PARK DEPARTMENT TO OBTAIN A TELECOMMUNICATION CONNECTION AND FOR THE CONNECTION OF THE CONTROLLER TO THE INTERNET. CONTRACTOR TO CONTACT CITY REPRESENTATIVE FOR OBSERVATION. ☒ WIRELESS ☐ HARDWIRE CABLE ☐ HARDWIRE TELEPHONE ☐ OTHER(SPECIFY): ☐ NONE		
☐	MAINLINE PRESSURE TEST & TRENCH OBSERVATION (POINT OF CONNECTION 'A'). CONTRACTOR TO CONTACT CITY REPRESENTATIVE FOR OBSERVATION.		
☐	MAINLINE PRESSURE TEST & TRENCH OBSERVATION (POINT OF CONNECTION 'B'). CONTRACTOR TO CONTACT CITY REPRESENTATIVE FOR OBSERVATION.		
☐	MAINLINE PRESSURE TEST & TRENCH OBSERVATION (POINT OF CONNECTION 'C'). CONTRACTOR TO CONTACT CITY REPRESENTATIVE FOR OBSERVATION.		
☐	FERTILIZER/ AMENDMENT TAGS. CONTRACTOR IS TO SUBMIT TAGS OF FERTILIZER(S) AND AMENDMENTS TO CITY REPRESENTATIVE FOR VERIFICATION ON QUANTITIES.		
☐	SOIL REPLACEMENT AND/ OR SOIL DECOMPACTION, SOIL AMENDMENT, AND FINISH GRADE OBSERVATION. CONTRACTOR TO CONTACT CITY REPRESENTATIVE FOR OBSERVATION.		
☐	IRRIGATION OPERATION, COVERAGE TEST AND IRRIGATION AUDIT (PRIOR TO PLANTING AND INSTALLATION OF MULCH OR SURFACE MATERIAL FOR DRIP SYSTEMS. FOR SPRAY SYSTEMS: AT END OF PROJECT, PRIOR TO ENTRY INTO MAINTENANCE PERIOD.)		
☐	CERTIFICATION OF IRRIGATION CONTROLLER AND GROUNDING TEST		
☐	PLANT MATERIAL OBSERVATION AND LOCATION. CONTRACTOR TO CONTACT CITY REPRESENTATIVE FOR OBSERVATION.		
☐	CONTRACTOR VERIFY CONNECTION TO CENTRAL CONTROL SYSTEM (TO CITY COMPUTER OR HYDRAWISE) AND TO ARRANGE FOR CITY I.T. ASSISTANCE. CONTRACTOR IS TO DEMONSTRATE TO CITY REPRESENTATIVE THAT CONTROLLER IS CONNECTED TO THE CITY CENTRAL CONTROL SYSTEM.		
☐	INITIAL ENTRY INTO MAINTENANCE PERIOD WALK- THOUGH. CONTRACTOR TO CONTACT CITY REPRESENTATIVE FOR OBSERVATION.		
☐	PUNCHLIST FOLLOWUP OBSERVATION FOR ENTRY INTO MAINTENANCE PERIOD. CONTRACTOR TO CONTACT CITY REPRESENTATIVE FOR VERIFICATION OF PUNCHLIST ITEMS		
☐	90 DAY MAINTENANCE PERIOD START DATE: PROJECTED FINISH DATE:		
☐	AS - BUILTS (HARD COPY AND DIGITAL) CONTROLLER CHART (LAMINATED). CONTRACTOR TO SUBMIT TO CITY REPRESENTATIVE		
☐	CLOSEOUT SUBMITTALS: ALL NECESSARY KEYS, ACCESS CODES, AND OTHER DEVICES NECESSARY TO OPERATE THE CONTROLLER, QUICK COUPLER KEYS, REMOTE CONTROLS (IF SPECIFIED), AND PROJECT CLOSEOUT BINDER CONTAINING PROJECT DESCRIPTION - NAMES, NUMBER ETC., PROJECT CONSTRUCTION START DATE, CONSULTANT NAME(S) AND CONTACT INFORMATION, CONTRACTOR NAME(S) AND CONTACT INFORMATION, SCHEDULE OF EQUIPMENT PER APPROVED SUBMITTALS, PRODUCT PARTS LISTS FOR MECHANICAL PRODUCTS, CHANGE ORDERS, FIELD REPORTS AND OBSERVATION REPORTS, TWO (2) O&M MANUALS OF ALL EQUIPMENT USED ON THE PROJECT MANUFACTURER CUT SHEETS, OPERATION MANUALS AND PARTS LISTS, CONTROLLER CHART, BACKFLOW TEST CERTIFICATION FROM CALWATER, CUT SHEETS AND MODEL NUMBERS OF ANY SPECIALTY WORK SUCH AS WALLS, BENCHES SIGNAGE, DRINKING FOUNTAINS, PLAY OR EXERCISE EQUIPMENT OR THE LIKE, COPY OF APPROVED MATERIALS SUBMITTAL LIST WITH EACH SPECIFIC ITEM HIGHLIGHTED ON ITS CATALOGUE SHEET, MANUAL PREPARATION DATE, PROJECT LOCATION, DATE OF START OF MAINTENANCE PERIOD DATE OF PROJECT COMPLETION (FINAL ACCEPTANCE), AUTHOR AND DATE OF INFORMATION, CONSTRUCTION HANDOVER DATES, PRODUCT WARRANTIES, SIGNED COPY OF GUARANTEE PER SECTION 1.08, RECORD DRAWINGS (AS BUILT) REDUCED TO 1/16" COPY OF COMPLETED PROJECT CONSTRUCTION APPROVAL CHECKLIST, HARD COPY OF ALL DRAWINGS, CD DISK CONTAINING DIGITAL DOCUMENTS COMPLYING WITH REQUIREMENTS DETAILED ABOVE, A CD THAT CONTAINS A SCAN OF ALL OF THE ABOVE		
☐	FINAL OBSERVATION. CONTRACTOR TO CONTACT CITY REPRESENTATIVE FOR OBSERVATION.		
☐	PUNCHLIST FOLLOWUP OBSERVATION FOR FINAL OBSERVATION. CONTRACTOR TO CONTACT CITY REPRESENTATIVE FOR VERIFICATION OF PUNCHLIST ITEMS		
☐	CERTIFICATIONS OF COMPLETION. CONTRACTOR IS RESPONSIBLE TO SUBMIT COMPLETED CERTIFICATES OF COMPLETION FROM PROJECT APPLICANT AND PROJECT LANDSCAPE ARCHITECT TO CITY REPRESENTATIVE.		
☐	NOTIFICATION OF MAINTENANCE RESPONSIBILITY TO CITY OF CHICO.		
☐	1 YEAR ACCEPTANCE OF PLANT WARRANTY PERIOD. DATE TO BE 1 YEAR AFTER APPROVAL OF 90 DAY MAINTENANCE PERIOD:_____		

NOTE:
THIS LIST OF REQUIRED SUBMITTALS AND INSPECTIONS IS FOR REFERENCE PURPOSES ONLY. SEE BOOK FORM SPECIFICATIONS AND DETAILS FOR COMPLETE SUBMITTAL AND INSPECTION REQUIREMENTS.
PLEASE PROVIDE A MINIMUM OF 2 WORKING DAYS NOTICE FOR ALL OBSERVATIONS.

SHEET INDEX

SHEET DESCRIPTION	SHEET NUMBER
LANDSCAPE PLANS- GENERAL NOTES	L-0.00
LANDSCAPE CONSTRUCTION PLAN- REFERENCE SHEET	L-1.00
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 10+00 TO 16+00	L-1.01
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 16+00 TO 22+00	L-1.02
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 22+00 TO 28+00	L-1.03
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 28+00 TO 34+00	L-1.04
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 34+00 TO 40+00	L-1.05
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 40+00 TO 46+00	L-1.06
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 46+00 TO 52+00	L-1.07
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 52+00 TO 55+16.84	L-1.08
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 55+16.84 TO 61+00	L-1.09
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 61+00 TO 67+00	L-1.10
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 67+00 TO 73+00	L-1.11
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 73+00 TO 79+00	L-1.12
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 79+00 TO 85+00	L-1.13
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 85+00 TO 91+00	L-1.14
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 91+00 TO 97+00	L-1.15
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 97+00 TO 103+00	L-1.16
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 103+00 TO 109+00	L-1.17
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 109+00 TO 115+00	L-1.18
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 115+00 TO 118+09.00	L-1.19
LANDSCAPE CONSTRUCTION DETAILS AND NOTES	L-1.20
LANDSCAPE CONSTRUCTION DETAILS AND NOTES	L-1.21

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SHEET DESCRIPTION	SHEET NUMBER
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LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 10+00 TO 16+00	L-2.01
LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 16+00 TO 22+00	L-2.02
LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 22+00 TO 28+00	L-2.03
LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 28+00 TO 34+00	L-2.04
LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 34+00 TO 40+00	L-2.05
LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 40+00 TO 46+00	L-2.06
LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 46+00 TO 52+00	L-2.07
LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 52+00 TO 55+16.84	L-2.08
LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 55+16.84 TO 61+00	L-2.09
LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 61+00 TO 67+00	L-2.10
LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 67+00 TO 73+00	L-2.11
LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 73+00 TO 79+00	L-2.12
LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 79+00 TO 85+00	L-2.13
LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 85+00 TO 91+00	L-2.14
LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 91+00 TO 97+00	L-2.15
LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 97+00 TO 103+00	L-2.16
LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 103+00 TO 109+00	L-2.17
LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 109+00 TO 115+00	L-2.18
LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 115+00 TO 118+09.00	L-2.19
LANDSCAPE PLANTING DETAILS AND NOTES	L-2.20
LANDSCAPE RESTORATION AT LITTLE CHICO CREEK	L-2.21
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SHEET DESCRIPTION	SHEET NUMBER
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LANDSCAPE IRRIGATION PLAN BRUCE ROAD STA. 16+00 TO 22+00	L-3.02
LANDSCAPE IRRIGATION PLAN BRUCE ROAD STA. 22+00 TO 28+00	L-3.03
LANDSCAPE IRRIGATION PLAN BRUCE ROAD STA. 28+00 TO 34+00	L-3.04
LANDSCAPE IRRIGATION PLAN BRUCE ROAD STA. 34+00 TO 40+00	L-3.05
LANDSCAPE IRRIGATION PLAN BRUCE ROAD STA. 40+00 TO 46+00	L-3.06
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LANDSCAPE IRRIGATION PLAN BRUCE ROAD STA. 52+00 TO 55+16.84	L-3.08
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LANDSCAPE IRRIGATION PLAN BRUCE ROAD STA. 115+00 TO 118+09.00	L-3.19
LANDSCAPE IRRIGATION DETAILS AND NOTES	L-3.20
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LANDSCAPE IRRIGATION DETAILS AND NOTES	L-3.22
LANDSCAPE IRRIGATION WATER USE CALCULATIONS- CONTROLLER 'A'	L-3.23
LANDSCAPE IRRIGATION WATER USE CALCULATIONS- CONTROLLER 'B'	L-3.24
LANDSCAPE IRRIGATION WATER USE CALCULATIONS- CONTROLLER 'C'	L-3.25

LANDSCAPE DOCUMENTATION PACKAGE (LDP) CHECKLIST (DESIGN)

CHECK BOX	DESCRIPTION	CHECK BOX	DESCRIPTION
☐	DATE: <u>DECEMBER 6, 2023</u>	☐	I AGREE TO COMPLY WITH THE REQUIREMENTS OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND SUBMIT A COMPLETE LANDSCAPE DOCUMENTS PACKAGE
☐	PROJECT APPLICANT: CITY OF CHICO PUBLIC WORKS CAPITAL PROJECT SERVICES 411 MAIN STREET, 2ND FLOOR CHICO, CA 95928 P.O. BOX 3420 CHICO, CA 95927-3420 OFFICE: (530) 879-6900		APPLICANT SIGNATURE _____ DATE _____
☐	PROJECT ADDRESS: BRUCE ROAD MEDIAN AND PARKWAY STRIP BETWEEN SKYWAY AND HWY 32	☐	WATER EFFICIENT LANDSCAPE WORKSHEET INCLUDING. <u>SEE SHEETS L-3.23, L-3.24, & L-3.25</u>
☐	TOTAL LANDSCAPE AREA (IN SQUARE FEET): <u>53,857 SF (1.24 ACRE)</u>		1) HYDROZONE INFORMATION TABLE 2) WATER BUDGET CALCULATIONS INCLUDING: a. MAX APPLIED WATER ALLOWANCE (MAWA) INCLUDING WATER FEATURES. b. ESTIMATED TOTAL WATER USE (ETWU)
☐	PROJECT TYPE: <u>NEW</u>		LANDSCAPE DESIGN PLAN: <u>SHEETS L-1.0 THROUGH L-2.22</u>
☐	WATER SUPPLY TYPE AND NAME OF LOCAL WATER PURVEYOR: <u>C.W.S. CHICO</u>	☐	IRRIGATION DESIGN PLAN: <u>SHEET L-3.0 THROUGH L-3.25</u>
☐	CHECKLIST OF ALL DOCUMENTS IN THE LDP	☐	GRADING DESIGN PLAN: <u>SEE PLANS BY ROLLS ANDERSON ROLLS.</u>
☐	CONTACT INFORMATION FOR THE APPLICANT AND PROPERTY OWNER: APPLICANT (PROJECT OWNER): CITY OF CHICO PUBLIC WORKS CAPITAL PROJECT SERVICES 411 MAIN STREET, 2ND FLOOR CHICO, CA 95928 P.O. BOX 3420 CHICO, CA 95927-3420 OFFICE: (530) 879-6900 PROPERTY OWNER: CITY OF CHICO PUBLIC WORKS CAPITAL PROJECT SERVICES 411 MAIN STREET, 2ND FLOOR CHICO, CA 95928 P.O. BOX 3420 CHICO, CA 95927-3420 OFFICE: (530) 879-6900		

 BISHO FIRTH LANDSCAPE ARCHITECTS, INC.
427 BROADWAY, SUITE 220, CHICO, CALIFORNIA 95928
PHONE: (530) 899-1130
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BFLA Project Number: 2414

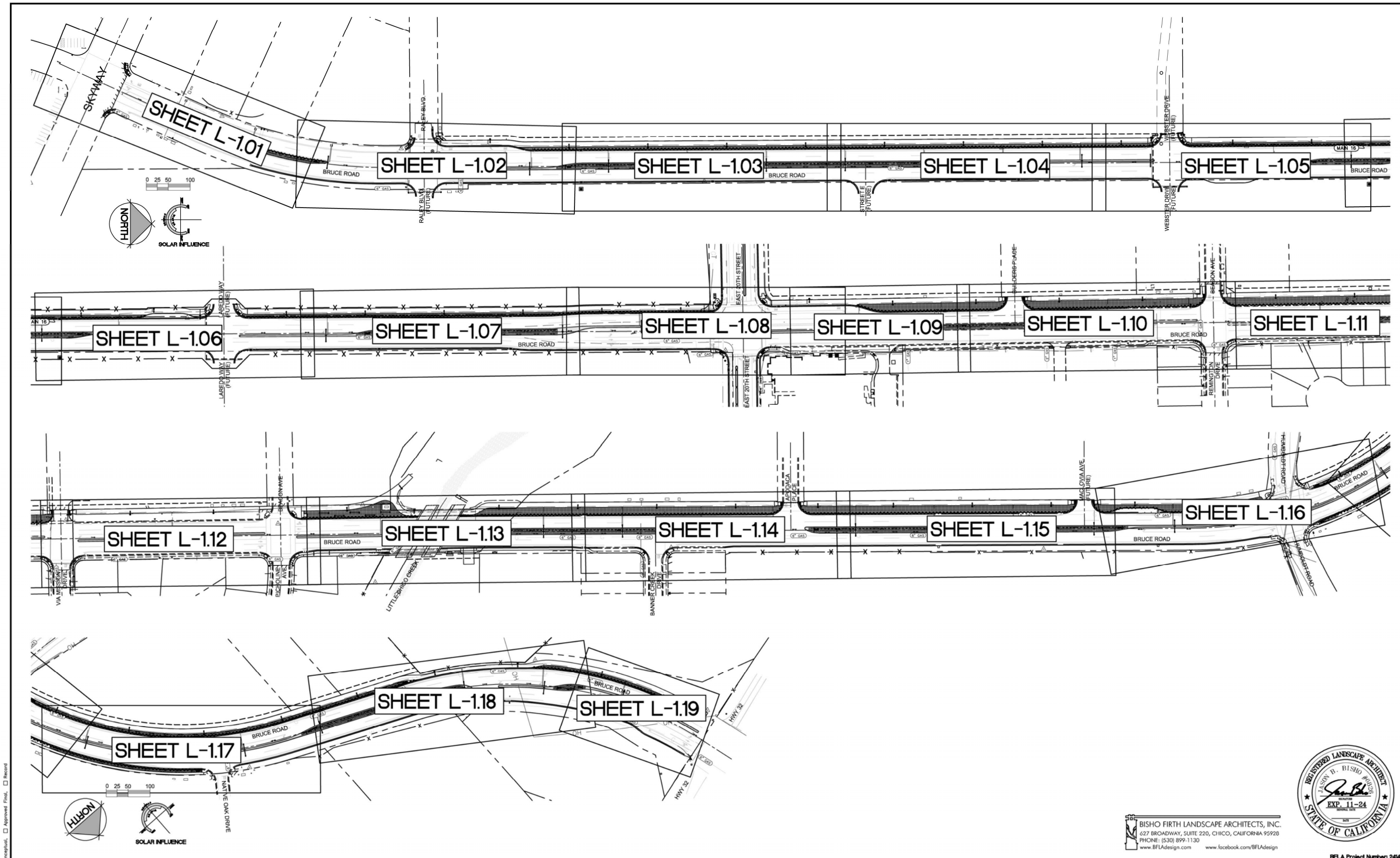
Designed:	JBB	Approved:		Revision		Date		By	
Drawn By:	JBB/ TDB	Date:	12-6-2023						
Checked:	JBB								

CITY OF CHICO
PUBLIC WORKS DEPARTMENT



BRUCE ROAD RECONSTRUCTION
LANDSCAPE PLANS- GENERAL NOTES

Project Number: 16038	Drawing Number: L-0.00
Scale: PER PLAN Horizontal	PER PLAN Vertical
Sheet III of 182	



Plan Status: ☐ Conceptual, ☐ Approved Final, ☐ Record

Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB	Date:	12-6-2023			
Checked:	JBB					

CITY OF CHICO
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BRUCE ROAD RECONSTRUCTION
LANDSCAPE CONSTRUCTION PLAN- REFERENCE SHEET

BISHO FIRTH LANDSCAPE ARCHITECTS, INC.
427 BROADWAY, SUITE 220, CHICO, CALIFORNIA 95928
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Project Number: 16038		Drawing Number: L-10	
Scale: PER PLAN Horizontal		Sheet 112 of 182	

BFLA Project Number: 2414

Plan Status: ☐ Conceptual, ☐ Approved Final, ☐ Record

Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB	Date:	12-6-2023			
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CITY OF CHICO
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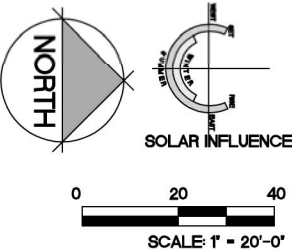
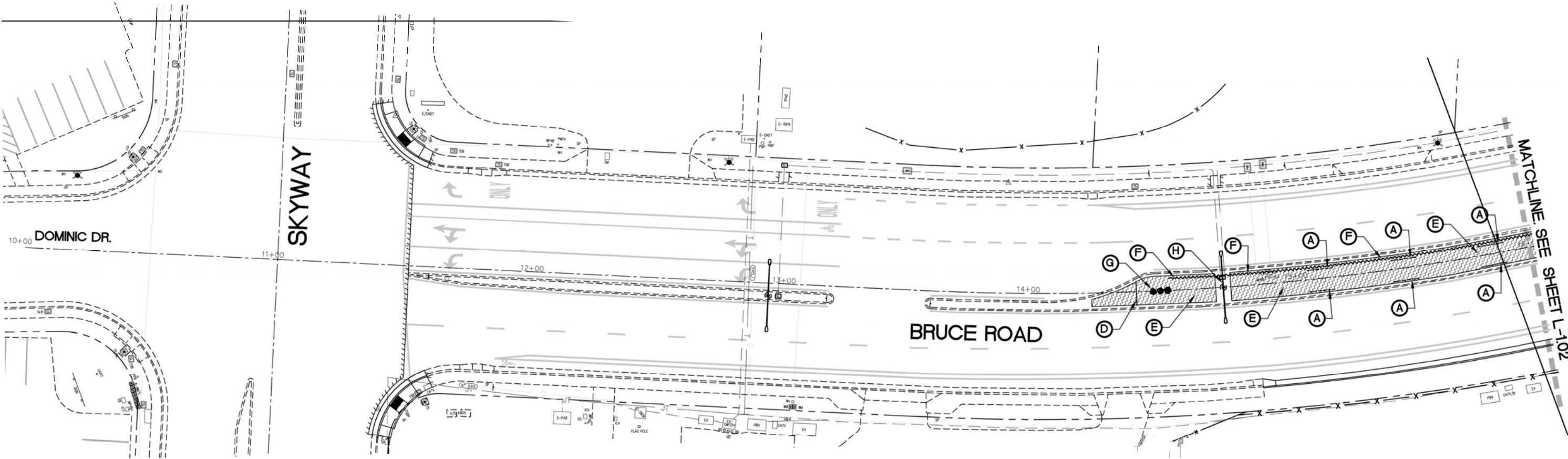
BRUCE ROAD RECONSTRUCTION
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 10+00 TO 16+00

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BFLA Project Number: 2414

Project Number:	16038	Drawing Number:	L-101
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 113 of 182

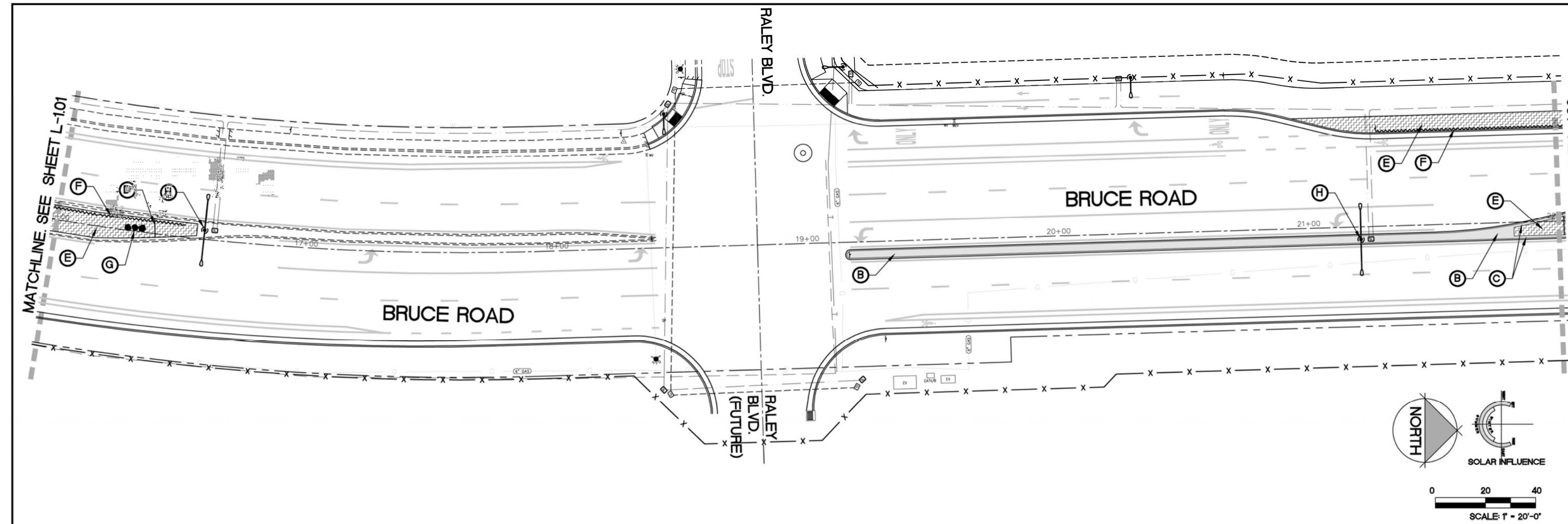


CONSTRUCTION LEGEND

SYMBOL	DESCRIPTION	REMARKS	DETAIL
(A)	ROOT BARRIER	TYPICAL AT ALL CITY STREET TREES. INSTALL IN ACCORDANCE WITH CITY OF CHICO STANDARDS.	2/ L-120 AND LS-1 + LS-4/ L-220
(B)	COLORLED STAMPED CONCRETE	SEE CIVIL ENGINEERS PLANS	LS10 / L-120
(C)	STAMPED CONCRETE MAINTENANCE BAND	SEE CIVIL ENGINEER'S PLANS	LS12 / L-120
(D)	STEEL HEADER	SEE DETAIL	LS17 / L-120
(E)	SOIL REPLACEMENT	ALL LANDSCAPE SOIL AT THE MEDIANS AND PARKWAY STRIPS IS TO BE EXCAVATED AND REPLACED. SEE SOIL REPLACEMENT DETAIL AND NOTES ON CIVIL ENGINEER'S PLANS.	
(F)	SUB-SURFACE DRAINLINE PLANS	SEE SOIL REPLACEMENT DETAIL AND NOTES ON CIVIL ENGINEER'S PLANS.	
(G)	LANDSCAPE BOULDER GROUPING	SEE DETAIL	1 / L-121
(H)	STREET LIGHT	SHOWN FOR REFERENCE ONLY. SEE CIVIL ENGINEER'S PLANS.	
(I)	ROCK WALLS	SEE DETAIL	3 / L-121

CONSTRUCTION NOTES

1. CONFIRM ALL LOCATIONS OF EXISTING UTILITIES WITHIN PROJECT SITE PRIOR TO EXCAVATION. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND REPAIR OF DAMAGE TO ALL EXISTING UTILITIES.
2. INSTALL ALL ELEMENTS PER MANUFACTURERS' SPECIFICATIONS.
3. CONTRACTOR IS RESPONSIBLE TO COORDINATE HIS WORK WITH THE WORK OF OTHERS.
4. CONTRACTOR SHALL OBSERVE ALL SAFETY REGULATIONS PERTAINING TO THIS PROJECT.
5. ANY CHANGES SHALL BE APPROVED BY THE PROJECT REPRESENTATIVE PRIOR TO CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE TO ALLOW FOR ADEQUATE LEADTIME FOR PRODUCT DELIVERY SO AS NOT TO IMPEDE THE PROJECT SCHEDULE.
7. SEE SHEET L-120 FOR MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) SOILS MANAGEMENT REPORT NOTE.
8. SEE COVER SHEET FOR LANDSCAPE DOCUMENTATION PACKAGE (LDP) AND CONSTRUCTION OBSERVATION CHECKLISTS.
9. SEE SHEET L-120 FOR CITY OF CHICO CONSTRUCTION NOTES.
10. SEE PLANS BY CIVIL ENGINEER FOR ADDITIONAL INFORMATION.
11. SEE DETAILS AND BOOK FORM SPECIFICATIONS FOR ADDITIONAL INFORMATION.



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Checked:	JBB					

CITY OF CHICO
PUBLIC WORKS DEPARTMENT



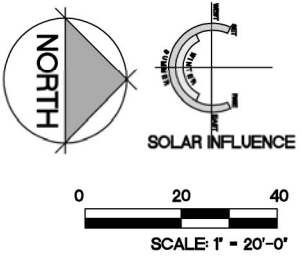
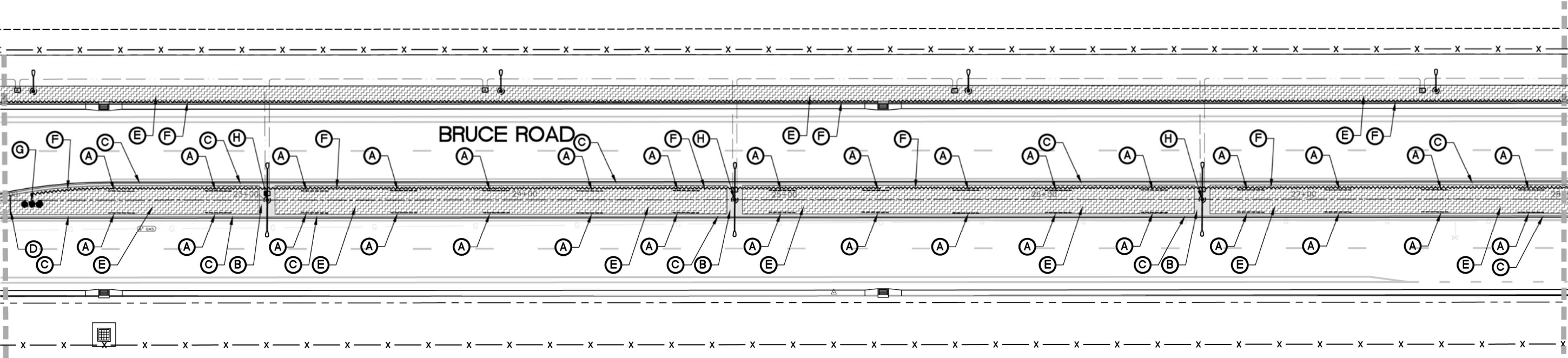
BRUCE ROAD RECONSTRUCTION
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 16+00 TO 22+00

BISHO FIRTH LANDSCAPE ARCHITECTS, INC.
627 BROADWAY, SUITE 220, CHICO, CALIFORNIA 95928
PHONE: (530) 899-1130
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Project Number:	16038	Drawing Number:	L-102
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 114 of 182

MATCHLINE: SEE SHEET L-102



CONSTRUCTION LEGEND

SYMBOL	DESCRIPTION	REMARKS	DETAIL
(A)	ROOT BARRIER	TYPICAL AT ALL CITY STREET TREES. INSTALL IN ACCORDANCE WITH CITY OF CHICO STANDARDS.	2/ L-120 AND LS-1 + LS-4/ L-220
(B)	COLORLED STAMPED CONCRETE	SEE CIVIL ENGINEER'S PLANS	LS10 / L-120
(C)	STAMPED CONCRETE MAINTENANCE BAND	SEE CIVIL ENGINEER'S PLANS	LS12 / L-120
(D)	STEEL HEADER	SEE DETAIL	LS17 / L-120
(E)	SOIL REPLACEMENT	ALL LANDSCAPE SOIL AT THE MEDIANS AND PARKWAY STRIPS IS TO BE EXCAVATED AND REPLACED. SEE SOIL REPLACEMENT DETAIL AND NOTES ON CIVIL ENGINEER'S PLANS.	
(F)	SUB-SURFACE DRAINLINE PLANS.	SEE SOIL REPLACEMENT DETAIL AND NOTES ON CIVIL ENGINEER'S PLANS.	
(G)	LANDSCAPE BOULDER GROUPING	SEE DETAIL	1 / L-121
(H)	STREET LIGHT	SHOWN FOR REFERENCE ONLY. SEE CIVIL ENGINEER'S PLANS.	
(I)	ROCK WALLS	SEE DETAIL	3 / L-121

CONSTRUCTION NOTES

1. CONFIRM ALL LOCATIONS OF EXISTING UTILITIES WITHIN PROJECT SITE PRIOR TO EXCAVATION. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND REPAIR OF DAMAGE TO ALL EXISTING UTILITIES.
2. INSTALL ALL ELEMENTS PER MANUFACTURERS' SPECIFICATIONS.
3. CONTRACTOR IS RESPONSIBLE TO COORDINATE HIS WORK WITH THE WORK OF OTHERS.
4. CONTRACTOR SHALL OBSERVE ALL SAFETY REGULATIONS PERTAINING TO THIS PROJECT.
5. ANY CHANGES SHALL BE APPROVED BY THE PROJECT REPRESENTATIVE PRIOR TO CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE TO ALLOW FOR ADEQUATE LEADTIME FOR PRODUCT DELIVERY SO AS NOT TO IMPEDE THE PROJECT SCHEDULE.
7. SEE SHEET L-120 FOR MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWEL) SOILS MANAGEMENT REPORT NOTE.
8. SEE COVER SHEET FOR LANDSCAPE DOCUMENTATION PACKAGE (LDP) AND CONSTRUCTION OBSERVATION CHECKLISTS.
9. SEE SHEET L-120 FOR CITY OF CHICO CONSTRUCTION NOTES.
10. SEE PLANS BY CIVIL ENGINEER FOR ADDITIONAL INFORMATION.
11. SEE DETAILS AND BOOK FORM SPECIFICATIONS FOR ADDITIONAL INFORMATION.

Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB					
Checked:	JBB	Date:	12-6-2023			

CITY OF CHICO
PUBLIC WORKS DEPARTMENT

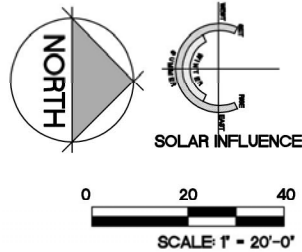


BRUCE ROAD RECONSTRUCTION
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 22+00 TO 28+00

BISHO FIRTH LANDSCAPE ARCHITECTS, INC.
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Project Number:	16038	Drawing Number:	L-103
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 115 of 182



CONSTRUCTION NOTES

1. CONFIRM ALL LOCATIONS OF EXISTING UTILITIES WITHIN PROJECT SITE PRIOR TO EXCAVATION. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND REPAIR OF DAMAGE TO ALL EXISTING UTILITIES.
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7. SEE SHEET L-120 FOR MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWEO) SOILS MANAGEMENT REPORT NOTE.
8. SEE COVER SHEET FOR LANDSCAPE DOCUMENTATION PACKAGE (LDP) AND CONSTRUCTION OBSERVATION CHECKLISTS.
9. SEE SHEET L-120 FOR CITY OF CHICO CONSTRUCTION NOTES.
10. SEE PLANS BY CIVIL ENGINEER FOR ADDITIONAL INFORMATION.
11. SEE DETAILS AND BOOK FORM SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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8. SEE COVER SHEET FOR LANDSCAPE DOCUMENTATION PACKAGE (LDP) AND CONSTRUCTION OBSERVATION CHECKLISTS.
9. SEE SHEET L-120 FOR CITY OF CHICO CONSTRUCTION NOTES.
10. SEE PLANS BY CIVIL ENGINEER FOR ADDITIONAL INFORMATION.
11. SEE DETAILS AND BOOK FORM SPECIFICATIONS FOR ADDITIONAL INFORMATION.

Plan Status: ☐ Conceptual, ☐ Approved Final, ☐ Record

Designed: JBB	Approved:	Revision	Date	By
Drawn By: JBB/ TDB				
Checked: JBB		Date: 12-6-2023		

CITY OF CHICO
PUBLIC WORKS DEPARTMENT

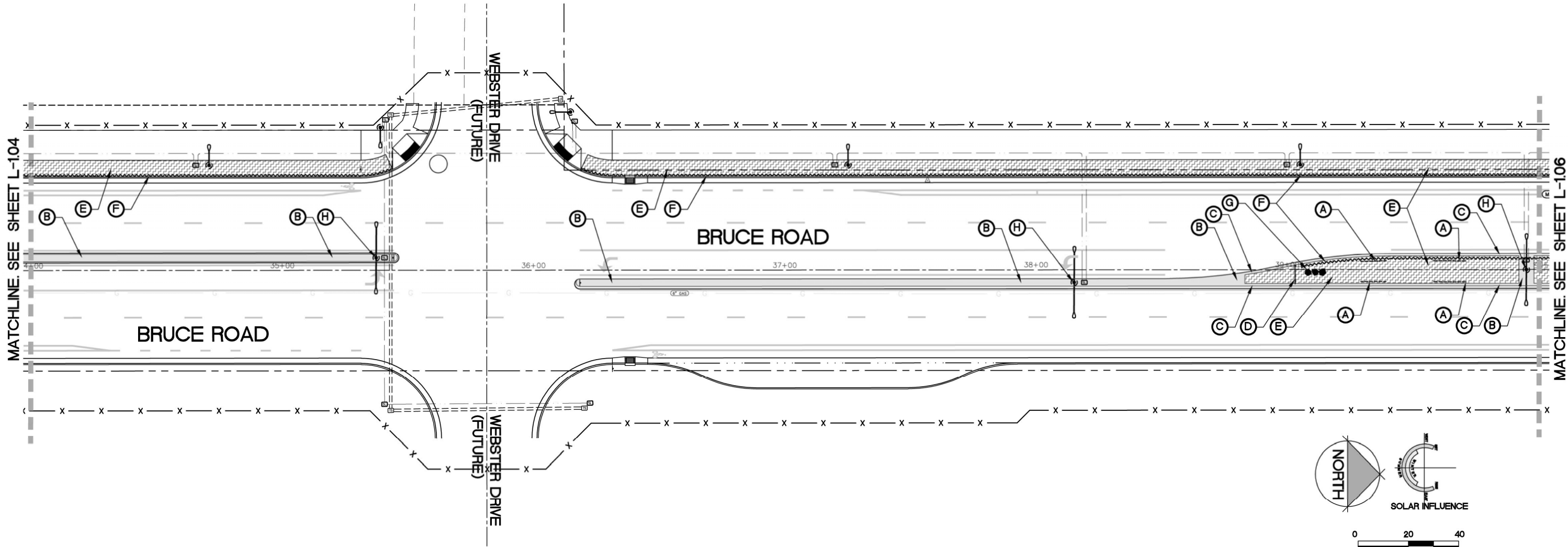


BRUCE ROAD RECONSTRUCTION
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 28+00 TO 34+00

Project Number: 16038	Drawing Number: L-104
Scale: PER PLAN Horizontal PER PLAN Vertical	Sheet <u>116</u> of <u>182</u>



BFLA Project Number: 2414

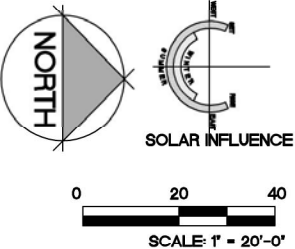


CONSTRUCTION LEGEND

SYMBOL	DESCRIPTION	REMARKS	DETAIL
(A)	ROOT BARRIER	TYPICAL AT ALL CITY STREET TREES. INSTALL IN ACCORDANCE WITH CITY OF CHICO STANDARDS.	2/ L-120 AND LS-1 + LS-4/ L-220
(B)	COLORED STAMPED CONCRETE	SEE CIVIL ENGINEER'S PLANS	LS10 / L-120
(C)	STAMPED CONCRETE MAINTENANCE BAND	SEE CIVIL ENGINEER'S PLANS	LS12 / L-120
(D)	STEEL HEADER	SEE DETAIL	LS17 / L-120
(E)	SOIL REPLACEMENT	ALL LANDSCAPE SOIL AT THE MEDIANS AND PARKWAY STRIPS IS TO BE EXCAVATED AND REPLACED. SEE SOIL REPLACEMENT DETAIL AND NOTES ON CIVIL ENGINEER'S PLANS.	
(F)	SUB-SURFACE DRAINLINE PLANS.	SEE SOIL REPLACEMENT DETAIL AND NOTES ON CIVIL ENGINEER'S PLANS.	
(G)	LANDSCAPE BOULDER GROUPING	SEE DETAIL	1 / L-121
(H)	STREET LIGHT	SHOWN FOR REFERENCE ONLY. SEE CIVIL ENGINEER'S PLANS.	
(I)	ROCK WALLS	SEE DETAIL	3 / L-121

CONSTRUCTION NOTES

1. CONFIRM ALL LOCATIONS OF EXISTING UTILITIES WITHIN PROJECT SITE PRIOR TO EXCAVATION. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND REPAIR OF DAMAGE TO ALL EXISTING UTILITIES.
2. INSTALL ALL PRODUCTS PER MANUFACTURER'S SPECIFICATIONS.
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7. SEE SHEET L-120 FOR MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) SOILS MANAGEMENT REPORT NOTE.
8. SEE COVER SHEET FOR LANDSCAPE DOCUMENTATION PACKAGE (LDP) AND CONSTRUCTION OBSERVATION CHECKLISTS.
9. SEE SHEET L-120 FOR CITY OF CHICO CONSTRUCTION NOTES.
10. SEE PLANS BY CIVIL ENGINEER FOR ADDITIONAL INFORMATION.
11. SEE DETAILS AND BOOK FORM SPECIFICATIONS FOR ADDITIONAL INFORMATION.



Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB	Date:	12-6-2023			
Checked:	JBB					

CITY OF CHICO
PUBLIC WORKS DEPARTMENT



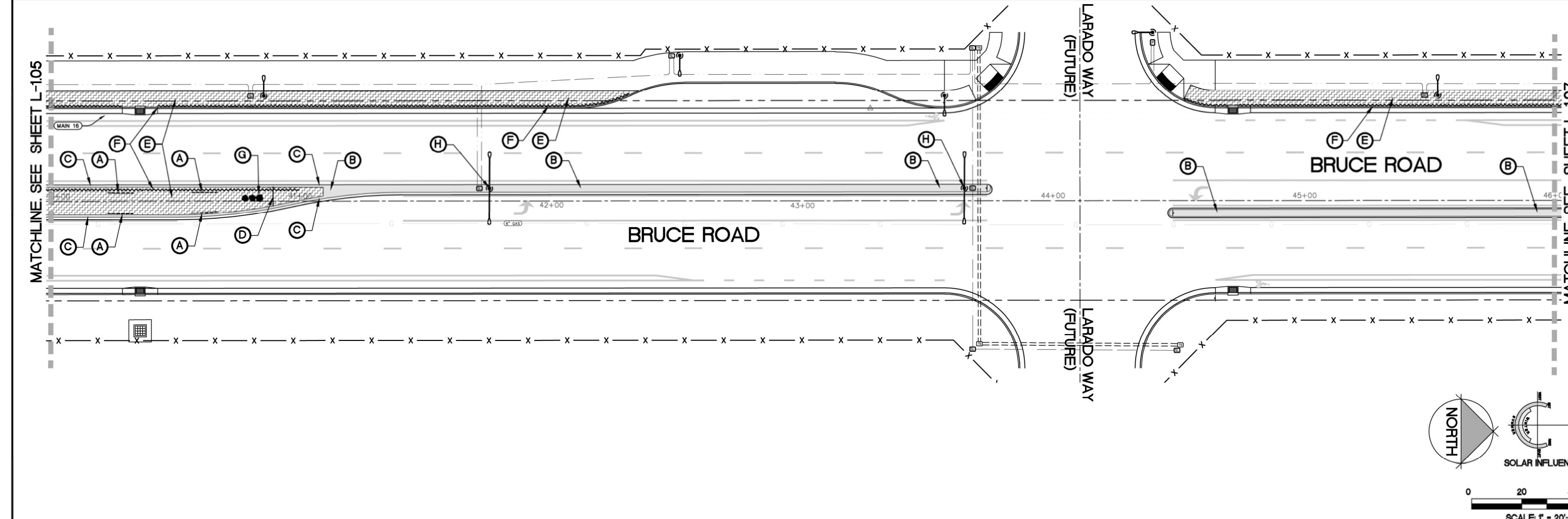
BRUCE ROAD RECONSTRUCTION
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 34+00 TO 40+00

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Project Number:	16038	Drawing Number:	L-105
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 117 of 182

BFLA Project Number: 2414



CONSTRUCTION LEGEND

SYMBOL	DESCRIPTION	REMARKS	DETAIL
(A)	ROOT BARRIER	TYPICAL AT ALL CITY STREET TREES. INSTALL IN ACCORDANCE WITH CITY OF CHICO STANDARDS.	2/ L-120 AND LS-1 + LS-4/ L-220
(B)	COLORED STAMPED CONCRETE	SEE CIVIL ENGINEERS PLANS	LS10 / L-120
(C)	STAMPED CONCRETE MAINTENANCE BAND	SEE CIVIL ENGINEER'S PLANS	LS12 / L-120
(D)	STEEL HEADER	SEE DETAIL	LS17 / L-120
(E)	SOIL REPLACEMENT	ALL LANDSCAPE SOIL AT THE MEDIANS AND PARKWAY STRIPS IS TO BE EXCAVATED AND REPLACED. SEE SOIL REPLACEMENT DETAIL AND NOTES ON CIVIL ENGINEER'S PLANS.	
(F)	SUB-SURFACE DRAINLINE PLANS	SEE SOIL REPLACEMENT DETAIL AND NOTES ON CIVIL ENGINEER'S PLANS.	
(G)	LANDSCAPE BOULDER GROUPING	SEE DETAIL	1 / L-121
(H)	STREET LIGHT	SHOWN FOR REFERENCE ONLY. SEE CIVIL ENGINEER'S PLANS.	
(I)	ROCK WALLS	SEE DETAIL	3 / L-121

CONSTRUCTION NOTES

1. CONFIRM ALL LOCATIONS OF EXISTING UTILITIES WITHIN PROJECT SITE PRIOR TO EXCAVATION. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND REPAIR OF DAMAGE TO ALL EXISTING UTILITIES.
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7. SEE SHEET L-120 FOR MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWEL0) SOILS MANAGEMENT REPORT NOTE.
8. SEE COVER SHEET FOR LANDSCAPE DOCUMENTATION PACKAGE (LDP) AND CONSTRUCTION OBSERVATION CHECKLISTS.
9. SEE SHEET L-120 FOR CITY OF CHICO CONSTRUCTION NOTES.
10. SEE PLANS BY CIVIL ENGINEER FOR ADDITIONAL INFORMATION.
11. SEE DETAILS AND BOOK FORM SPECIFICATIONS FOR ADDITIONAL INFORMATION.

Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB					
Checked:	JBB	Date: 12-6-2023				

CITY OF CHICO
PUBLIC WORKS DEPARTMENT



BRUCE ROAD RECONSTRUCTION
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 40+00 TO 46+00

BISHO FIRTH LANDSCAPE ARCHITECTS, INC.
427 BROADWAY, SUITE 220, CHICO, CALIFORNIA 95928
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Project Number:	16038	Drawing Number:	L-106
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 118 of 182

Plan Status: ☐ Conceptual, ☐ Approved Final, ☐ Record

Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB	Date:	12-6-2023			
Checked:	JBB					

CITY OF CHICO
PUBLIC WORKS DEPARTMENT

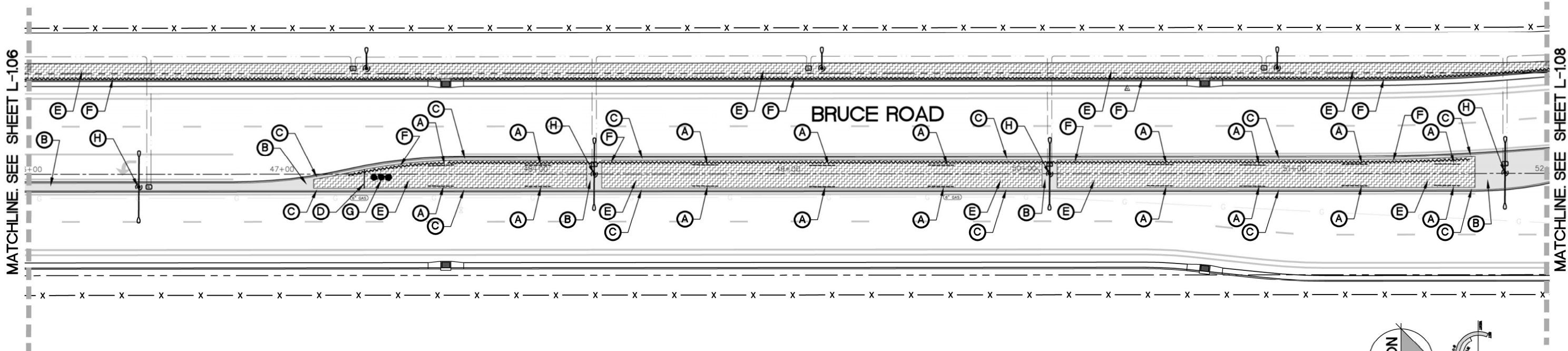


BRUCE ROAD RECONSTRUCTION
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 46+00 TO 52+00

BISHO FIRTH LANDSCAPE ARCHITECTS, INC.
427 BROADWAY, SUITE 220, CHICO, CALIFORNIA 95928
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Project Number: 16038	Drawing Number: L-107
Scale: PER PLAN Horizontal	PER PLAN Vertical
Sheet 119 of 182	BFLA Project Number: 2414

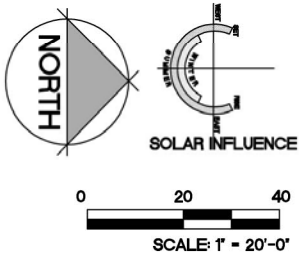


CONSTRUCTION LEGEND

SYMBOL	DESCRIPTION	REMARKS	DETAIL
(A)	ROOT BARRIER	TYPICAL AT ALL CITY STREET TREES. INSTALL IN ACCORDANCE WITH CITY OF CHICO STANDARDS.	2/ L-120 AND LS-1 + LS-4/ L-220
(B)	COLOR STAMPED CONCRETE	SEE CIVIL ENGINEERS PLANS	LS10 / L-120
(C)	STAMPED CONCRETE MAINTENANCE BAND	SEE CIVIL ENGINEER'S PLANS	LS12 / L-120
(D)	STEEL HEADER	SEE DETAIL	LS17 / L-120
(E)	SOIL REPLACEMENT	ALL LANDSCAPE SOIL AT THE MEDIANS AND PARKWAY STRIPS IS TO BE EXCAVATED AND REPLACED. SEE SOIL REPLACEMENT DETAIL AND NOTES ON CIVIL ENGINEER'S PLANS.	
(F)	SUB-SURFACE DRAINLINE PLANS.	SEE SOIL REPLACEMENT DETAIL AND NOTES ON CIVIL ENGINEER'S PLANS.	
(G)	LANDSCAPE BOULDER GROUPING	SEE DETAIL	1 / L-121
(H)	STREET LIGHT	SHOWN FOR REFERENCE ONLY. SEE CIVIL ENGINEER'S PLANS.	
(I)	ROCK WALLS	SEE DETAIL	3 / L-121

CONSTRUCTION NOTES

1. CONFIRM ALL LOCATIONS OF EXISTING UTILITIES WITHIN PROJECT SITE PRIOR TO EXCAVATION. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND REPAIR OF DAMAGE TO ALL EXISTING UTILITIES.
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7. SEE SHEET L-120 FOR MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWEO) SOILS MANAGEMENT REPORT NOTE.
8. SEE COVER SHEET FOR LANDSCAPE DOCUMENTATION PACKAGE (LDP) AND CONSTRUCTION OBSERVATION CHECKLISTS.
9. SEE SHEET L-120 FOR CITY OF CHICO CONSTRUCTION NOTES.
10. SEE PLANS BY CIVIL ENGINEER FOR ADDITIONAL INFORMATION.
11. SEE DETAILS AND BOOK FORM SPECIFICATIONS FOR ADDITIONAL INFORMATION.





CONSTRUCTION NOTES

-

BFLA Project Number: 2414

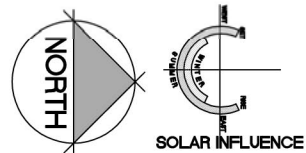
Project Number: 16038	Drawing Number: L-108
Scale: PER PLAN Horizontal PER PLAN Vertical	Sheet <u>120</u> of <u>182</u>

MATCHLINE. SEE SHEET L-108

EAST 20TH STREET

BRUCE ROAD

MATCHLINE. SEE SHEET L-110



0 20 40
SCALE: 1" = 20'-0"

CONSTRUCTION LEGEND

SYMBOL	DESCRIPTION	REMARKS	DETAIL
(A)	ROOT BARRIER	TYPICAL AT ALL CITY STREET TREES. INSTALL IN ACCORDANCE WITH CITY OF CHICO STANDARDS.	2/ L-120 AND LS-1 + LS-4/ L-220
(B)	COLOR STAMPED CONCRETE	SEE CIVIL ENGINEER'S PLANS	LS10 / L-120
(C)	STAMPED CONCRETE MAINTENANCE BAND	SEE CIVIL ENGINEER'S PLANS	LS12 / L-120
(D)	STEEL HEADER	SEE DETAIL	LS17 / L-120
(E)	SOIL REPLACEMENT	ALL LANDSCAPE SOIL AT THE MEDIANS AND PARKWAY STRIPS IS TO BE EXCAVATED AND REPLACED. SEE SOIL REPLACEMENT DETAIL AND NOTES ON CIVIL ENGINEER'S PLANS.	
(F)	SUB-SURFACE DRAINLINE PLANS.	SEE SOIL REPLACEMENT DETAIL AND NOTES ON CIVIL ENGINEER'S PLANS.	
(G)	LANDSCAPE BOULDER GROUPING	SEE DETAIL	1 / L-121
(H)	STREET LIGHT	SHOWN FOR REFERENCE ONLY. SEE CIVIL ENGINEER'S PLANS.	
(I)	ROCK WALLS	SEE DETAIL	3 / L-121

CONSTRUCTION NOTES

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10. SEE PLANS BY CIVIL ENGINEER FOR ADDITIONAL INFORMATION.
11. SEE DETAILS AND BOOK FORM SPECIFICATIONS FOR ADDITIONAL INFORMATION.

Plan Status: ☐ Conceptual, ☐ Approved Final, ☐ Record

Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB					
Checked:	JBB	Date:	12-6-2023			

CITY OF CHICO
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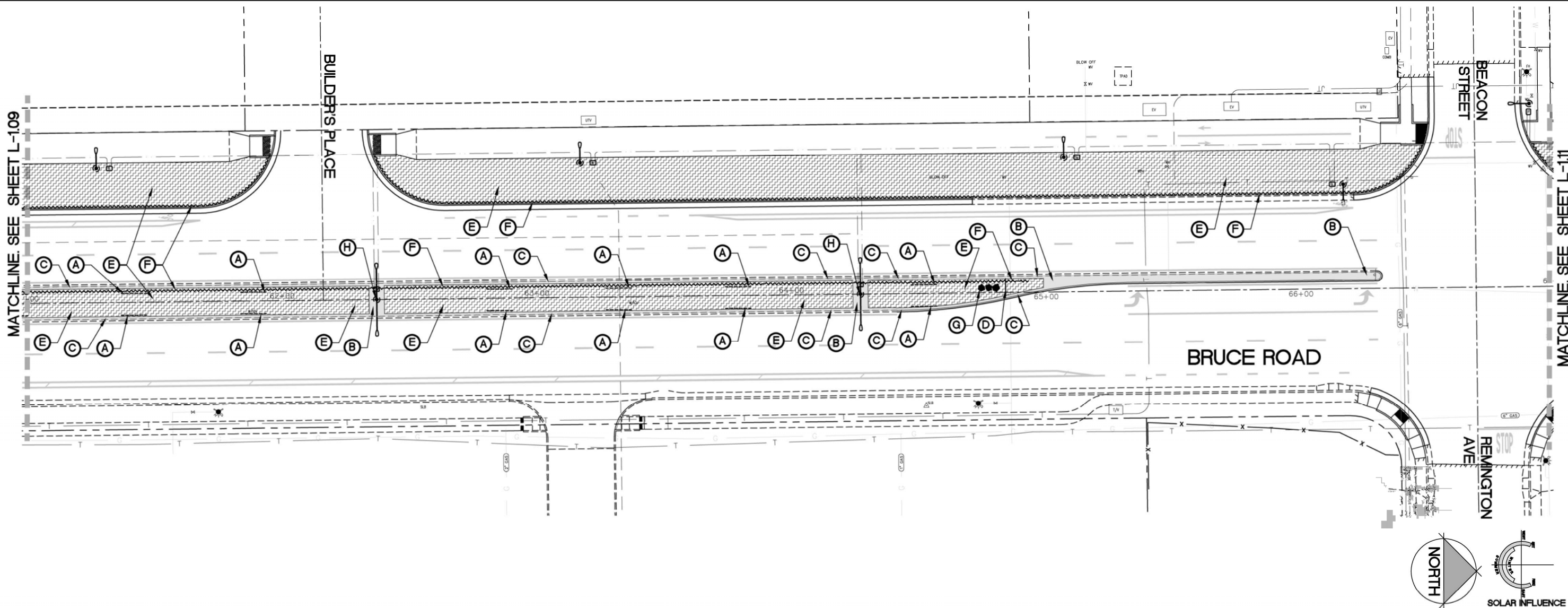
BRUCE ROAD RECONSTRUCTION
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 55+16.84 TO 61+00

BISHO FIRTH LANDSCAPE ARCHITECTS, INC.
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BFLA Project Number: 2414

Project Number:	16038	Drawing Number:	L-109
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 121 of 182



CONSTRUCTION LEGEND

SYMBOL	DESCRIPTION	REMARKS	DETAIL
(A)	ROOT BARRIER	TYPICAL AT ALL CITY STREET TREES. INSTALL IN ACCORDANCE WITH CITY OF CHICO STANDARDS.	2/ L-120 AND LS-1 + LS-4/ L-220
(B)	COLORLED STAMPED CONCRETE	SEE CIVIL ENGINEER'S PLANS	LS10 / L-120
(C)	STAMPED CONCRETE MAINTENANCE BAND	SEE CIVIL ENGINEER'S PLANS	LS12 / L-120
(D)	STEEL HEADER	SEE DETAIL	LS17 / L-120
(E)	SOIL REPLACEMENT	ALL LANDSCAPE SOIL AT THE MEDIANS AND PARKWAY STRIPS IS TO BE EXCAVATED AND REPLACED. SEE SOIL REPLACEMENT DETAIL AND NOTES ON CIVIL ENGINEER'S PLANS.	
(F)	SUB-SURFACE DRAINLINE PLANS.	SEE SOIL REPLACEMENT DETAIL AND NOTES ON CIVIL ENGINEER'S PLANS.	
(G)	LANDSCAPE BOULDER GROUPING	SEE DETAIL	1 / L-121
(H)	STREET LIGHT	SHOWN FOR REFERENCE ONLY. SEE CIVIL ENGINEER'S PLANS.	
(I)	ROCK WALLS	SEE DETAIL	3 / L-121

CONSTRUCTION NOTES

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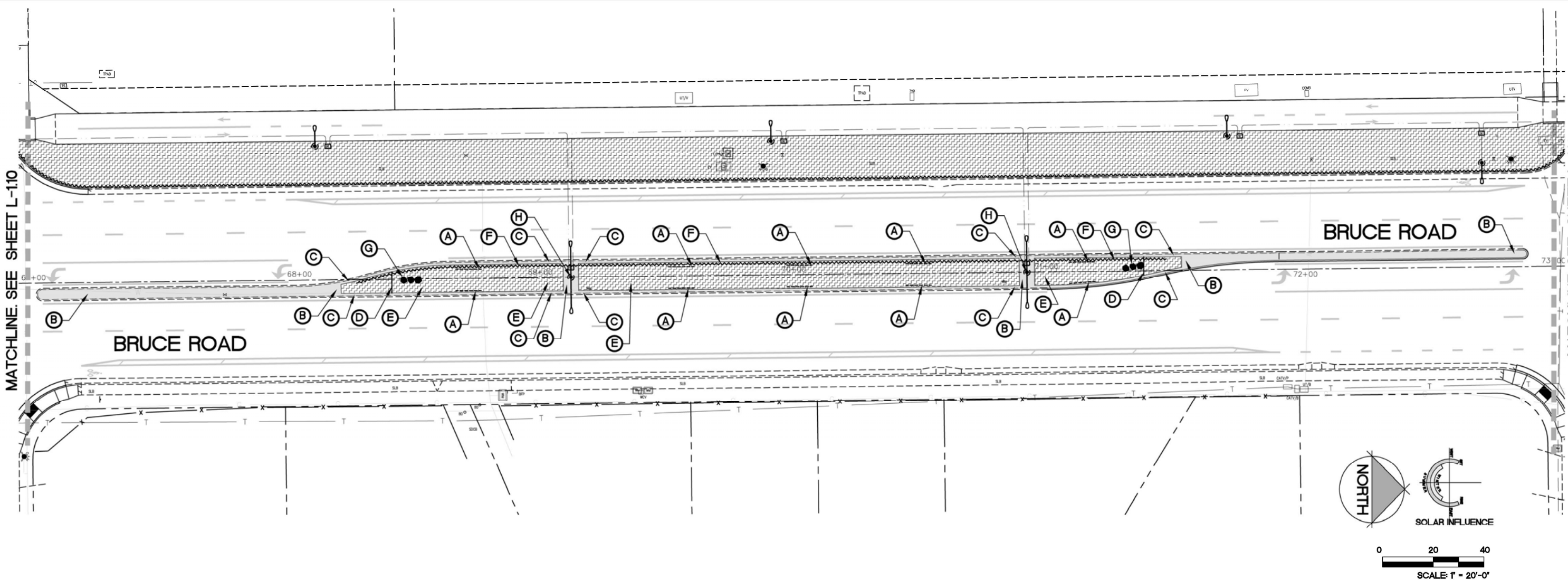
Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB	Date:	12-6-2023			
Checked:	JBB					

CITY OF CHICO
PUBLIC WORKS DEPARTMENT



BRUCE ROAD RECONSTRUCTION
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 61+00 TO 67+00

Project Number:	16038	Drawing Number:	L-110
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 122 of 182



CONSTRUCTION LEGEND

SYMBOL	DESCRIPTION	REMARKS	DETAIL
(A)	ROOT BARRIER	TYPICAL AT ALL CITY STREET TREES. INSTALL IN ACCORDANCE WITH CITY OF CHICO STANDARDS.	2/ L-120 AND LS-1 + LS-4/ L-220
(B)	COLOR STAMPED CONCRETE	SEE CIVIL ENGINEER'S PLANS	LS10 / L-120
(C)	STAMPED CONCRETE MAINTENANCE BAND	SEE CIVIL ENGINEER'S PLANS	LS12 / L-120
(D)	STEEL HEADER	SEE DETAIL	LS17 / L-120
(E)	SOIL REPLACEMENT	ALL LANDSCAPE SOIL AT THE MEDIANS AND PARKWAY STRIPS IS TO BE EXCAVATED AND REPLACED. SEE SOIL REPLACEMENT DETAIL AND NOTES ON CIVIL ENGINEER'S PLANS.	
(F)	SUB-SURFACE DRAINLINE PLANS.	SEE SOIL REPLACEMENT DETAIL AND NOTES ON CIVIL ENGINEER'S PLANS.	
(G)	LANDSCAPE BOULDER GROUPING	SEE DETAIL	1 / L-121
(H)	STREET LIGHT	SHOWN FOR REFERENCE ONLY. SEE CIVIL ENGINEER'S PLANS.	
(I)	ROCK WALLS	SEE DETAIL	3 / L-121

CONSTRUCTION NOTES

1. CONFIRM ALL LOCATIONS OF EXISTING UTILITIES WITHIN PROJECT SITE PRIOR TO EXCAVATION. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND REPAIR OF DAMAGE TO ALL EXISTING UTILITIES.
2. INSTALL ALL ELEMENTS PER MANUFACTURERS' SPECIFICATIONS.
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6. THE CONTRACTOR IS RESPONSIBLE TO ALLOW FOR ADEQUATE LEADTIME FOR PRODUCT DELIVERY SO AS NOT TO IMPEDE THE PROJECT SCHEDULE.
7. SEE SHEET L-120 FOR MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) SOILS MANAGEMENT REPORT NOTE.
8. SEE COVER SHEET FOR LANDSCAPE DOCUMENTATION PACKAGE (LDP) AND CONSTRUCTION OBSERVATION CHECKLISTS.
9. SEE SHEET L-120 FOR CITY OF CHICO CONSTRUCTION NOTES.
10. SEE PLANS BY CIVIL ENGINEER FOR ADDITIONAL INFORMATION.
11. SEE DETAILS AND BOOK FORM SPECIFICATIONS FOR ADDITIONAL INFORMATION.

Plan Status: ☐ Conceptual, ☐ Approved Final, ☐ Record

Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB	Date:	12-6-2023			
Checked:	JBB					

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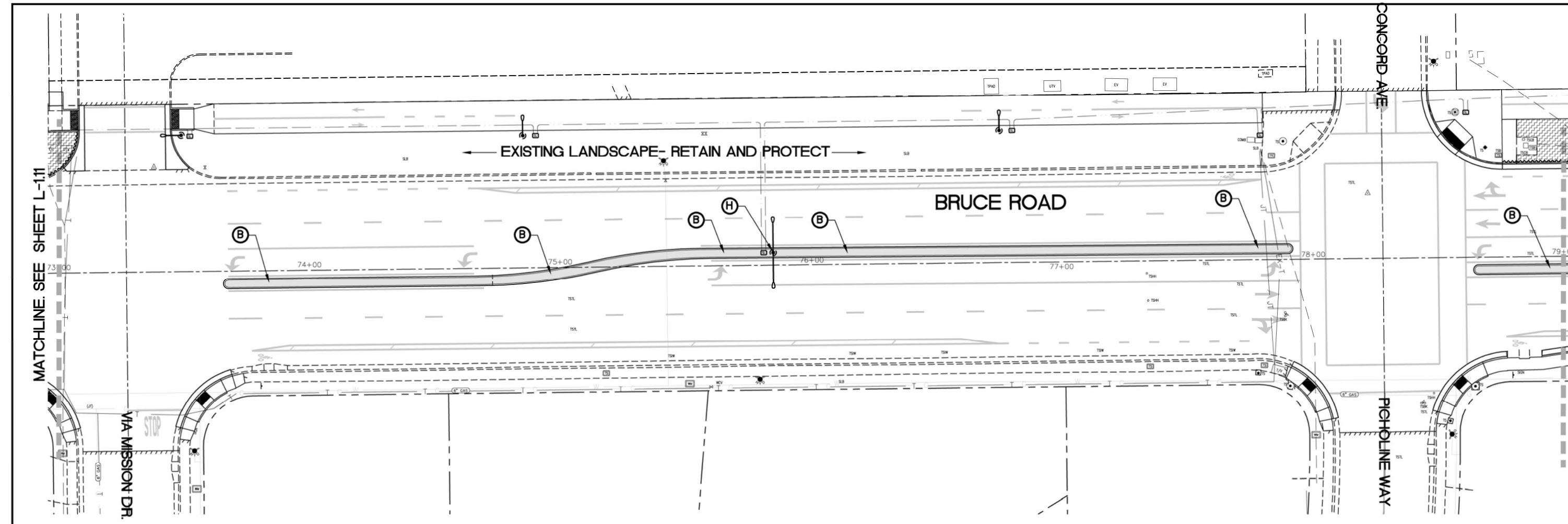


BRUCE ROAD RECONSTRUCTION
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 67+00 TO 73+00

BISHO FIRTH LANDSCAPE ARCHITECTS, INC.
427 BROADWAY, SUITE 220, CHICO, CALIFORNIA 95928
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Project Number:	16038	Drawing Number:	L-111
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 123 of 182

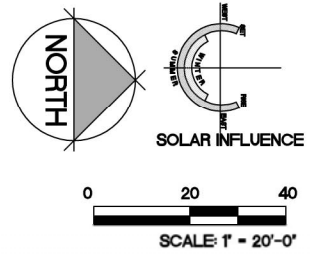


CONSTRUCTION LEGEND

SYMBOL	DESCRIPTION	REMARKS	DETAIL
(A)	ROOT BARRIER	TYPICAL AT ALL CITY STREET TREES. INSTALL IN ACCORDANCE WITH CITY OF CHICO STANDARDS.	2/ L-120 AND LS-1 + LS-4/ L-220
(B)	COLOR STAMPED CONCRETE	SEE CIVIL ENGINEER'S PLANS	LS10 / L-120
(C)	STAMPED CONCRETE MAINTENANCE BAND	SEE CIVIL ENGINEER'S PLANS	LS12 / L-120
(D)	STEEL HEADER	SEE DETAIL	LS17 / L-120
(E)	SOIL REPLACEMENT	ALL LANDSCAPE SOIL AT THE MEDIANS AND PARKWAY STRIPS IS TO BE EXCAVATED AND REPLACED. SEE SOIL REPLACEMENT DETAIL AND NOTES ON CIVIL ENGINEER'S PLANS.	
(F)	SUB-SURFACE DRAINAGE PLANS	SEE SOIL REPLACEMENT DETAIL AND NOTES ON CIVIL ENGINEER'S PLANS.	
(G)	LANDSCAPE BOULDER GROUPING	SEE DETAIL	1 / L-121
(H)	STREET LIGHT	SHOWN FOR REFERENCE ONLY. SEE CIVIL ENGINEER'S PLANS.	
(I)	ROCK WALLS	SEE DETAIL	3 / L-121

CONSTRUCTION NOTES

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Designed: JBB	Approved:	Revision	Date	By
Drawn By: JBB/ TDB	Date: 12-6-2023			
Checked: JBB				

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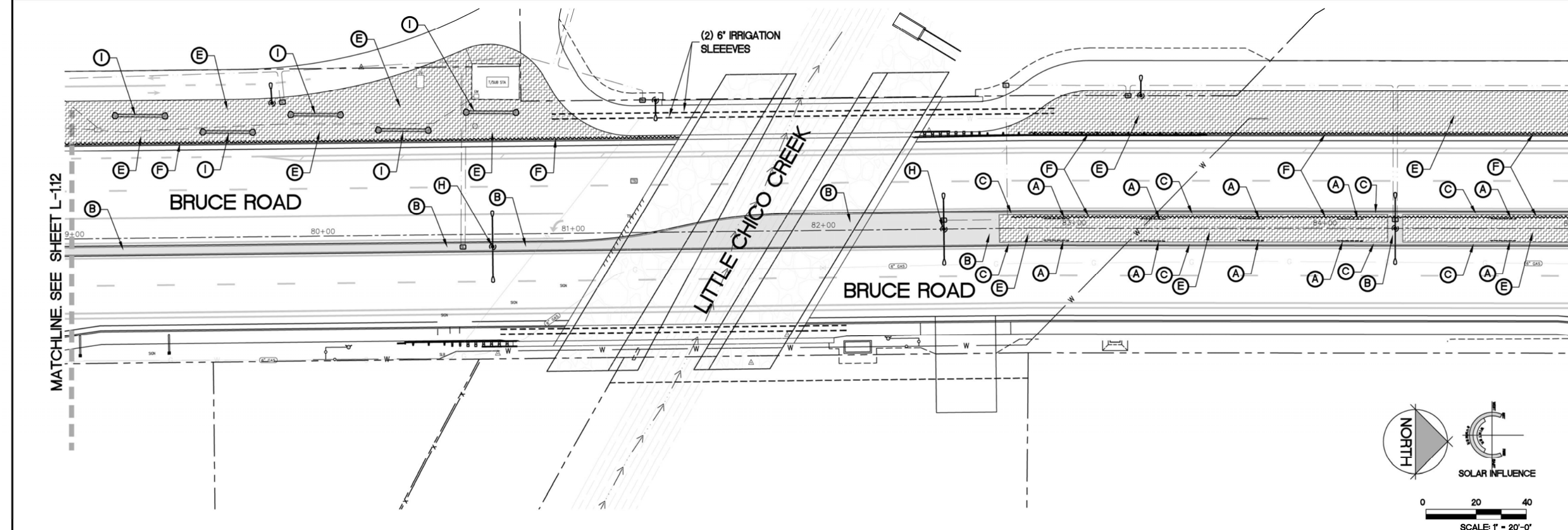


BRUCE ROAD RECONSTRUCTION
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 73+00 TO 79+00

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Project Number: 16038	Drawing Number: L-112
Scale: PER PLAN Horizontal PER PLAN Vertical	Sheet 124 of 182



CONSTRUCTION LEGEND

SYMBOL	DESCRIPTION	REMARKS	DETAIL
(A)	ROOT BARRIER	TYPICAL AT ALL CITY STREET TREES. INSTALL IN ACCORDANCE WITH CITY OF CHICO STANDARDS.	2/ L-120 AND LS-1 + LS-4/ L-220
(B)	COLORLED STAMPED CONCRETE	SEE CIVIL ENGINEER'S PLANS	LS10 / L-120
(C)	STAMPED CONCRETE MAINTENANCE BAND	SEE CIVIL ENGINEER'S PLANS	LS12 / L-120
(D)	STEEL HEADER	SEE DETAIL	LS17 / L-120
(E)	SOIL REPLACEMENT	ALL LANDSCAPE SOIL AT THE MEDIANS AND PARKWAY STRIPS IS TO BE EXCAVATED AND REPLACED. SEE SOIL REPLACEMENT DETAIL AND NOTES ON CIVIL ENGINEER'S PLANS.	
(F)	SUB-SURFACE DRAINLINE PLANS	SEE SOIL REPLACEMENT DETAIL AND NOTES ON CIVIL ENGINEER'S PLANS.	
(G)	LANDSCAPE BOULDER GROUPING	SEE DETAIL	1 / L-121
(H)	STREET LIGHT	SHOWN FOR REFERENCE ONLY. SEE CIVIL ENGINEER'S PLANS.	
(I)	ROCK WALLS	SEE DETAIL	3 / L-121

CONSTRUCTION NOTES

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Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB			ADDENDUM 1	12-19-23	JBB
Checked:	JBB	Date:	12-6-2023			

CITY OF CHICO
PUBLIC WORKS DEPARTMENT

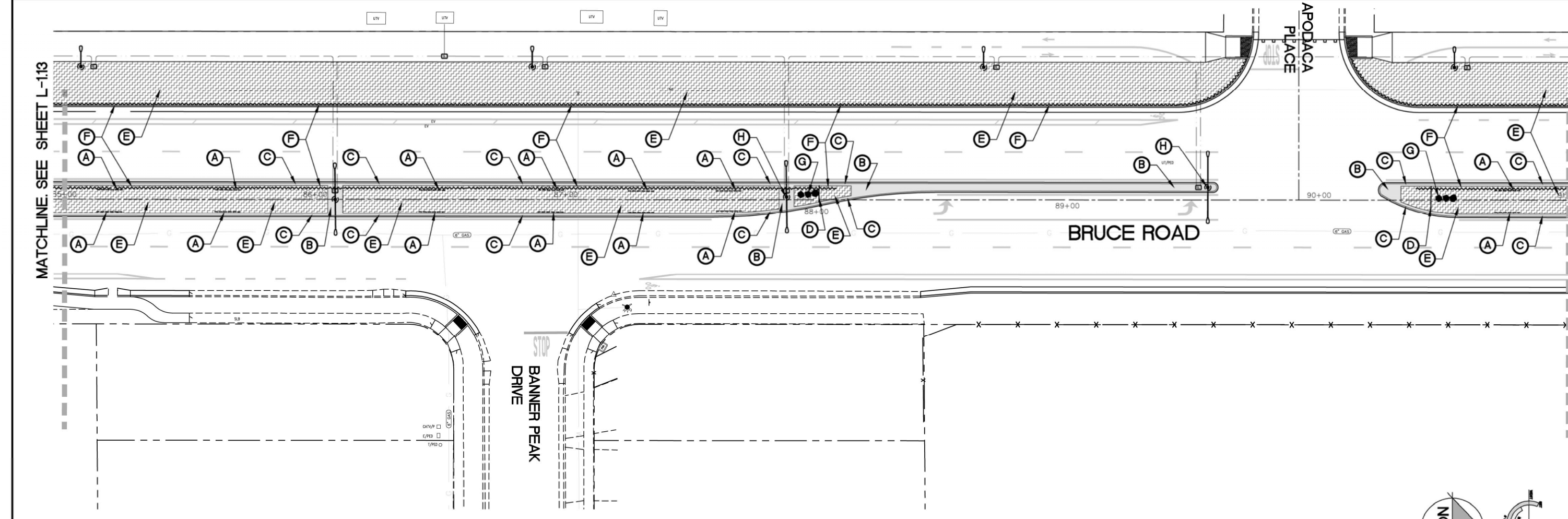


BRUCE ROAD RECONSTRUCTION
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 79+00 TO 85+00

BISHO FIRTH LANDSCAPE ARCHITECTS, INC.
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Project Number:	16038	Drawing Number:	L-113
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 125 of 182

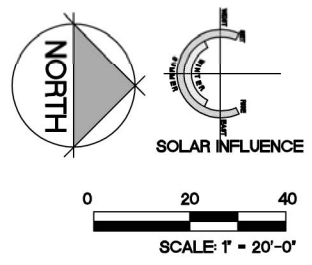


CONSTRUCTION LEGEND

SYMBOL	DESCRIPTION	REMARKS	DETAIL
(A)	ROOT BARRIER	TYPICAL AT ALL CITY STREET TREES. INSTALL IN ACCORDANCE WITH CITY OF CHICO STANDARDS.	2/ L-120 AND LS-1 + LS-4/ L-220
(B)	COLORLED STAMPED CONCRETE	SEE CIVIL ENGINEERS PLANS	LS10 / L-120
(C)	STAMPED CONCRETE MAINTENANCE BAND	SEE CIVIL ENGINEER'S PLANS	LS12 / L-120
(D)	STEEL HEADER	SEE DETAIL	LS17 / L-120
(E)	SOIL REPLACEMENT	ALL LANDSCAPE SOIL AT THE MEDIANS AND PARKWAY STRIPS IS TO BE EXCAVATED AND REPLACED. SEE SOIL REPLACEMENT DETAIL AND NOTES ON CIVIL ENGINEER'S PLANS.	
(F)	SUB-SURFACE DRAINLINE PLANS	SEE SOIL REPLACEMENT DETAIL AND NOTES ON CIVIL ENGINEER'S PLANS.	
(G)	LANDSCAPE BOULDER GROUPING	SEE DETAIL	1 / L-121
(H)	STREET LIGHT	SHOWN FOR REFERENCE ONLY. SEE CIVIL ENGINEER'S PLANS.	
(I)	ROCK WALLS	SEE DETAIL	3 / L-121

CONSTRUCTION NOTES

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Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB	Date:	12-6-2023			
Checked:	JBB					

CITY OF CHICO
PUBLIC WORKS DEPARTMENT



BRUCE ROAD RECONSTRUCTION
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 85+00 TO 91+00

BISHO FIRTH LANDSCAPE ARCHITECTS, INC.
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Project Number:	16038	Drawing Number:	L-114
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 126 of 182

Plan Status: ☐ Conceptual, ☐ Approved Final, ☐ Record

Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB	Date:	12-6-2023			
Checked:	JBB					

CITY OF CHICO
PUBLIC WORKS DEPARTMENT



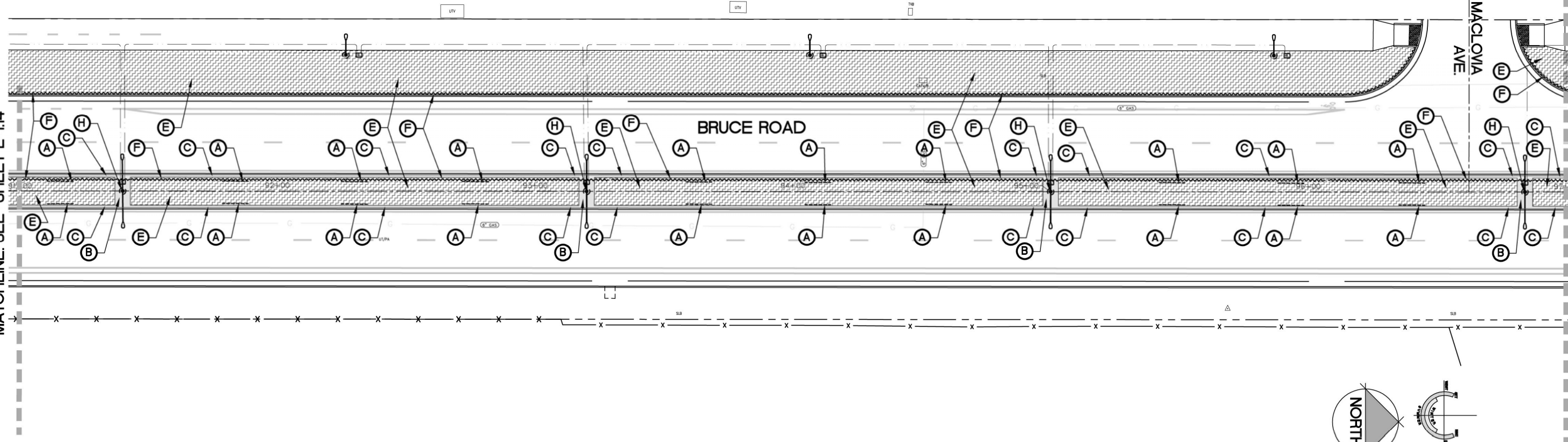
BRUCE ROAD RECONSTRUCTION
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 91+00 TO 97+00

Project Number:	16038	Drawing Number:	L-115
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 127 of 182

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MATCHLINE. SEE SHEET L-114



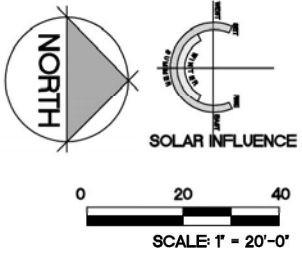
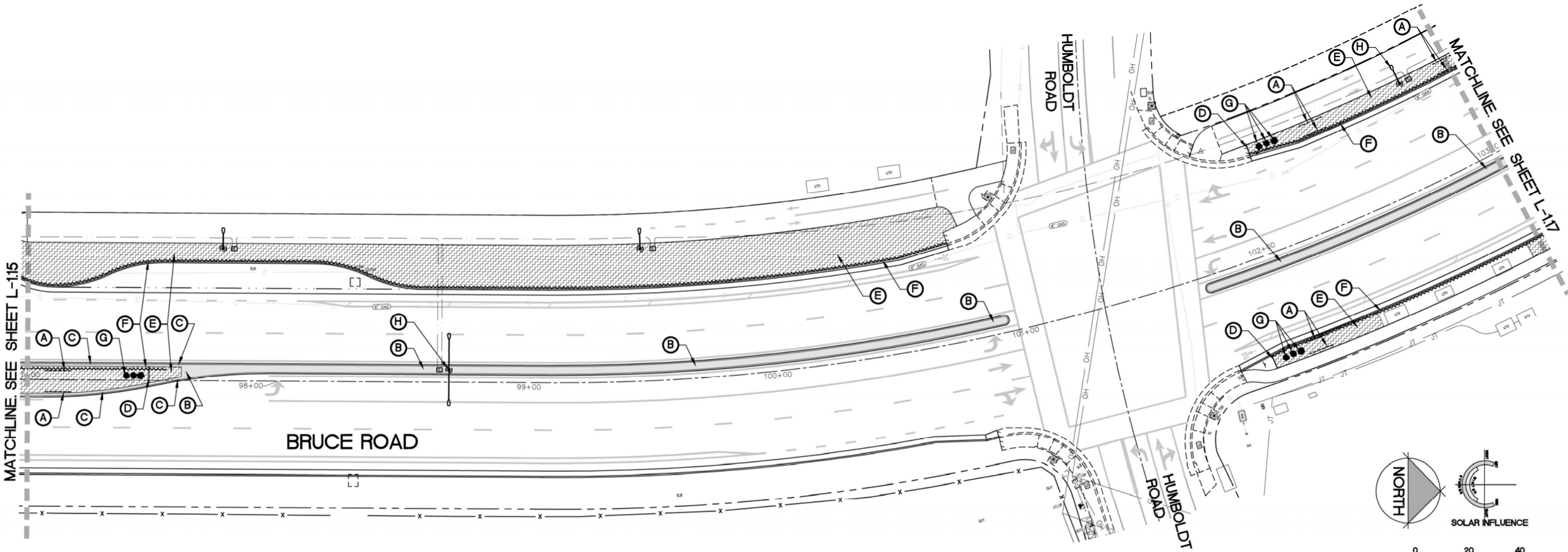
MATCHLINE. SEE SHEET L-116

CONSTRUCTION LEGEND

SYMBOL	DESCRIPTION	REMARKS	DETAIL
(A)	ROOT BARRIER	TYPICAL AT ALL CITY STREET TREES. INSTALL IN ACCORDANCE WITH CITY OF CHICO STANDARDS.	2/ L-120 AND LS-1 + LS-4/ L-220
(B)	COLORED STAMPED CONCRETE	SEE CIVIL ENGINEER'S PLANS	LS10 / L-120
(C)	STAMPED CONCRETE MAINTENANCE BAND	SEE CIVIL ENGINEER'S PLANS	LS12 / L-120
(D)	STEEL HEADER	SEE DETAIL	LS17 / L-120
(E)	SOIL REPLACEMENT	ALL LANDSCAPE SOIL AT THE MEDIANS AND PARKWAY STRIPS IS TO BE EXCAVATED AND REPLACED. SEE SOIL REPLACEMENT DETAIL AND NOTES ON CIVIL ENGINEER'S PLANS.	
(F)	SUB-SURFACE DRAINLINE PLANS.	SEE SOIL REPLACEMENT DETAIL AND NOTES ON CIVIL ENGINEER'S PLANS.	
(G)	LANDSCAPE BOULDER GROUPING	SEE DETAIL	1 / L-121
(H)	STREET LIGHT	SHOWN FOR REFERENCE ONLY. SEE CIVIL ENGINEER'S PLANS.	
(I)	ROCK WALLS	SEE DETAIL	3 / L-121

CONSTRUCTION NOTES

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8. SEE COVER SHEET FOR LANDSCAPE DOCUMENTATION PACKAGE (LDP) AND CONSTRUCTION OBSERVATION CHECKLISTS.
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CONSTRUCTION LEGEND

SYMBOL	DESCRIPTION	REMARKS	DETAIL
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(D)	STEEL HEADER	SEE DETAIL	LS17 / L-120
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(G)	LANDSCAPE BOULDER GROUPING	SEE DETAIL	1 / L-121
(H)	STREET LIGHT	SHOWN FOR REFERENCE ONLY. SEE CIVIL ENGINEER'S PLANS.	
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Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB					
Checked:	JBB	Date:	12-6-2023			

CITY OF CHICO
PUBLIC WORKS DEPARTMENT



BRUCE ROAD RECONSTRUCTION
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 97+00 TO 103+00

BISHO FIRTH LANDSCAPE ARCHITECTS, INC.
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Project Number:	16038	Drawing Number:	L-116
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 128 of 182

Plan Status: ☐ Conceptual, ☐ Approved Final, ☐ Record

Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB	Date:	12-6-2023			
Checked:	JBB					

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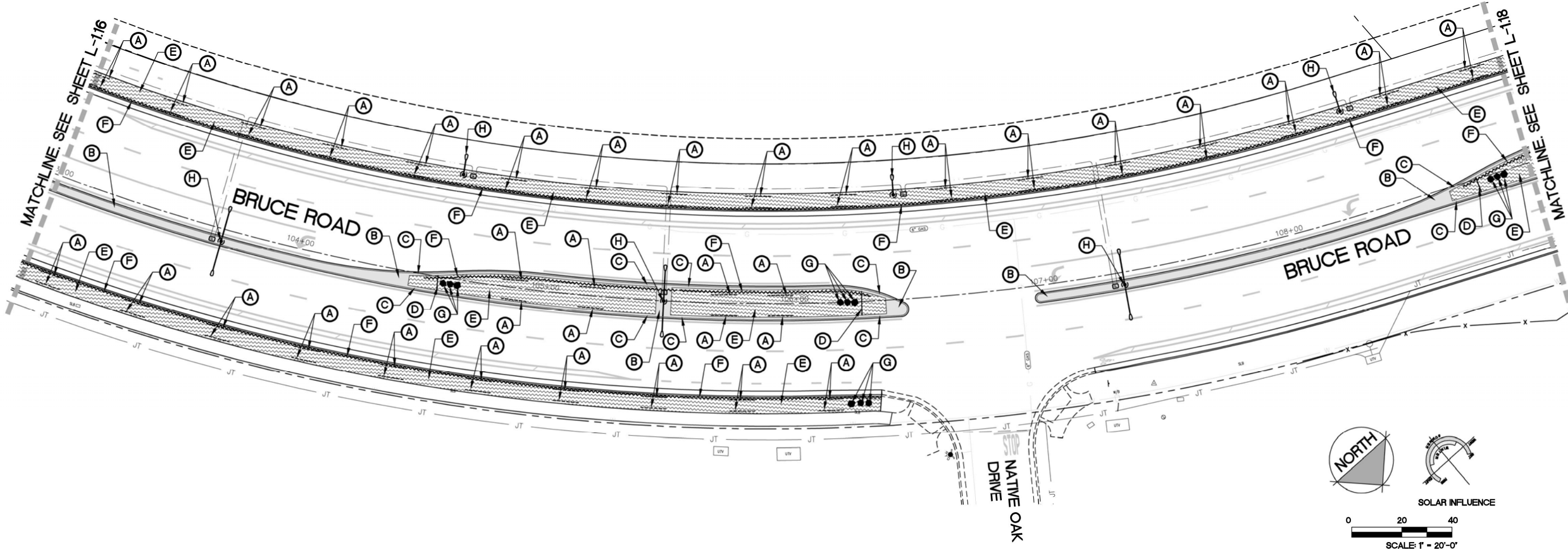


BRUCE ROAD RECONSTRUCTION
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 103+00 TO 109+00

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Project Number:	16038	Drawing Number:	L-117
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 129 of 182

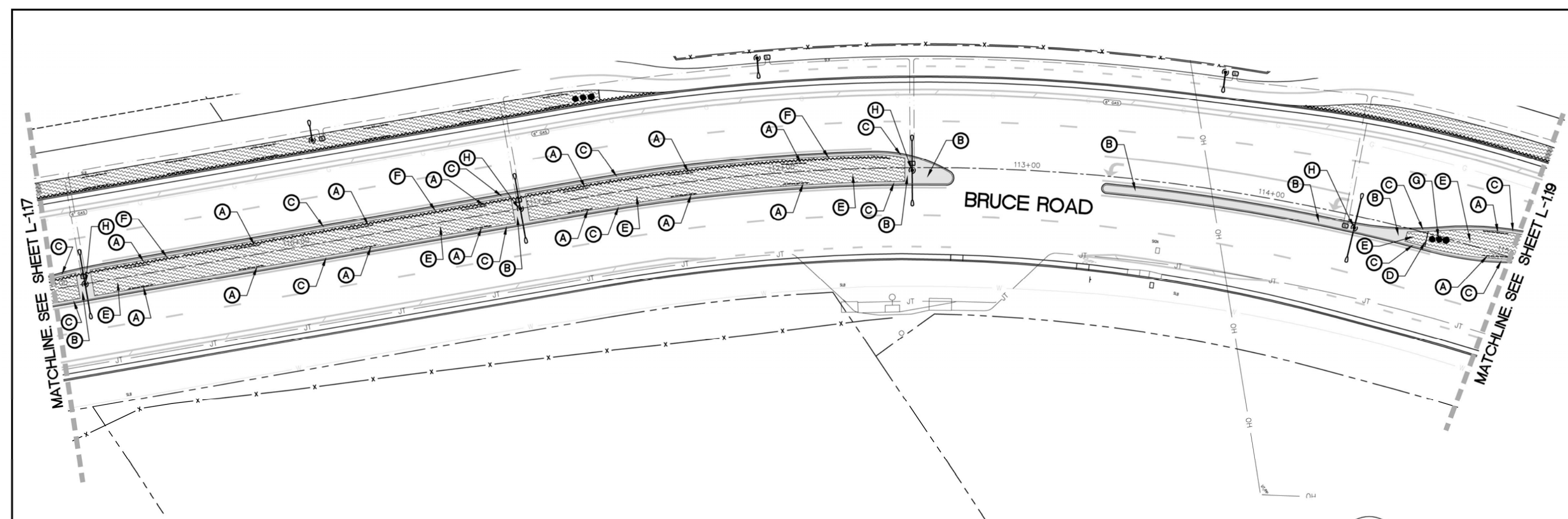


CONSTRUCTION LEGEND

SYMBOL	DESCRIPTION	REMARKS	DETAIL
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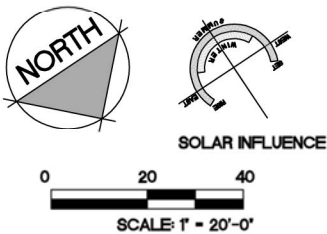


CONSTRUCTION LEGEND

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Plan Status: ☐ Conceptual, ☐ Approved Final, ☐ Record

Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB	Date:	12-6-2023			
Checked:	JBB					

CITY OF CHICO
PUBLIC WORKS DEPARTMENT

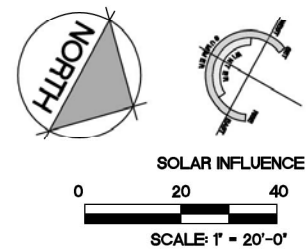


BRUCE ROAD RECONSTRUCTION
LANDSCAPE CONSTRUCTION PLAN BRUCE ROAD STA. 109+00 TO 115+00

BISHO FIRTH LANDSCAPE ARCHITECTS, INC.
627 BROADWAY, SUITE 220, CHICO, CALIFORNIA 95928
PHONE: (530) 899-1130
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Project Number:	16038	Drawing Number:	L-118
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 130 of 182



CONSTRUCTION NOTES

1. CONFIRM ALL LOCATIONS OF EXISTING UTILITIES WITHIN PROJECT SITE PRIOR TO EXCAVATION. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND REPAIR OF DAMAGE TO ALL EXISTING UTILITIES.
2. INSTALL ALL ELEMENTS PER MANUFACTURERS' SPECIFICATIONS.
3. CONTRACTOR IS RESPONSIBLE TO COORDINATE HIS WORK WITH THE WORK OF OTHERS.
4. CONTRACTOR SHALL OBSERVE ALL SAFETY REGULATIONS PERTAINING TO THIS PROJECT.
5. ANY CHANGES SHALL BE APPROVED BY THE PROJECT REPRESENTATIVE PRIOR TO CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE TO ALLOW FOR ADEQUATE LEADTIME FOR PRODUCT DELIVERY SO AS NOT TO IMPEDE THE PROJECT SCHEDULE.
7. SEE SHEET L-120 FOR MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWEO) SOILS MANAGEMENT REPORT NOTE.
8. SEE COVER SHEET FOR LANDSCAPE DOCUMENTATION PACKAGE (LDP) AND CONSTRUCTION OBSERVATION CHECKLISTS.
9. SEE SHEET L-120 FOR CITY OF CHICO CONSTRUCTION NOTES.
10. SEE PLANS BY CIVIL ENGINEER FOR ADDITIONAL INFORMATION.
11. SEE DETAILS AND BOOK FORM SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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9. SEE SHEET L-120 FOR CITY OF CHICO CONSTRUCTION NOTES.
10. SEE PLANS BY CIVIL ENGINEER FOR ADDITIONAL INFORMATION.
11. SEE DETAILS AND BOOK FORM SPECIFICATIONS FOR ADDITIONAL INFORMATION.

Revision Status: ☐ Design ☐ Drawn ☐ Checked	Designed: JBB	Approved:	Revision	Date	By
	Drawn By: JBB/ TDB	Date: 12-6-2023			
	Checked: JBB				



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BFLA Project Number: 2414

Project Number: 16038	Drawing Number: L-119
Scale: PER PLAN Horizontal PER PLAN Vertical	Sheet 131 of 182

UB 18-2 Specifications
18" DeepRoot® Tree Root Barrier

Specified tree root barrier is a mechanical barrier and root deflector used to prevent tree roots from damaging hardscapes and landscapes. Assembled in 24" (609 mm) long modules to create varying lengths for linear applications, or perimeter surround applications in varying sizes.

A. Materials

1. The contractor shall furnish and install tree root barrier as specified. The tree root barrier shall be either product RUB 18-2 as manufactured by DeepRoot® Green Infrastructure, LLC, 530 Washington Street, San Francisco, CA, www.deeproot.com (800.458.7668).

2. Root barrier shall be recyclable, black, injection molded panels with 0.75" (1.90 mm) wall thickness in modules 24" (609 mm) long and 18" (460 mm) deep.

3. Root barrier shall be manufactured with 75% reprocessed polypropylene with added ultraviolet inhibitors.

4. Root barrier shall be comprised of 24" (609 mm) panels. Each panel shall have no less than four (4) Molded Integral Vertical Root Directing Ribs of a minimum 0.060" (1.52 mm) thickness, protruding 1/2" (12.7 mm) at 90° from interior of the barrier panel, spaced 6" (152.4 mm) apart. (See Details A & D)

5. Root barrier shall have a Double Top Edge consisting of two parallel, integral, horizontal ribs at the top of the panel at 0.060" (1.52 mm) thickness, 3/8" (9.53 mm) wide and 1/4" (6.35 mm) apart with the lower rib attached to the vertical Root Directing Ribs (See Detail A).

6. Root barrier shall have a minimum of nine (9) Anti-Lift Ground Lock Tabs consisting of integral horizontal ridges of minimum 0.060" (1.52 mm) thickness in the shape of a segment of a circle, the 2-1/4" (57.15 mm) chord of the segment (joining the panel wall and the segment, protruding 3/8" (9.53 mm) from the panel. The ground locks on each panel shall be about equally spaced between each of the vertical root directing ribs (See Details B & D).

7. Root barrier shall have an integrated Zipper Joining System for assembly by sliding one panel into another (See Detail C).

U.S. Patents: 5,305,549; and 5,528,857. Other Patents Pending.

Properties	Typical Value	ASTM Test Method
Tensile strength @ yield - Wall	2,354 PSI	D638
Tensile strength @ yield - Hinge	2,846 PSI	D638
Yield Elongation - Wall	7.44%	D638
Yield Elongation - Hinge	7.05%	D638
Flexural Modulus	119,625 PSI	D790B
Notched Izod Impact - Wall	3.84 (ft-lbs)	D256A
Rockwell Hardness r. scale - Wall	84.4	D785A

DETAIL A - DOUBLE TOP EDGE AND VERTICAL ROOT DIRECTING RIB

DETAIL B - ANTI-LIFT GROUND LOCK TAB

DETAIL C - ZIPPER JOINING SYSTEM

DETAIL D - TREE ROOT BARRIER PANEL

ROOT BARRIER DETAIL

2

CITY OF CHICO

STANDARD PLAN

DRAWN BY: JB DATE: 6-15-20
CHECKED BY: BF SCALE: NONE
APPROVED: CPSD DIRECTOR

STEEL HEADER DETAIL

NO. LS-17

PLAN VIEW

SECTION VIEW

SPLICE PROFILE VIEW

1 3/16" X 4" SURE-LOC STEEL EDGING (OR APPROVED EQUAL). COLOR: BLACK. CUT AS REQUIRED. GRIND TO ELIMINATE SHARP EDGES.

2 15" LONG SURE-LOC STEEL STAKES. COLOR: BLACK. STAKE AT 3'-0" O.C. MAX.

3 FINISH GRADE FOR SOIL IN TURF AREA -1".

4 FINISH GRADE FOR SOIL IN HARDSCAPE AREA -3-1/2".

5 FINISH GRADE FOR SOIL IN SHRUB OR GROUND COVER AREA -3-1/2".

6 DECOMPOSED GRANITE, ROCK DUST OR PAVING IN HARDSCAPE AREA.

7 TOP DRESSING PER SPECIFICATIONS.

8 SPLICE.

CITY OF CHICO CONSTRUCTION NOTES

- GENERAL**
- CONTRACTOR SHALL PERFORM ALL WORK SHOWN ON PLANS IN CONFORMANCE WITH CITY OF CHICO LANDSCAPE SPECIFICATION AND DETAILS.
 - CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT LEAST 48 HOUR PRIOR TO ANY EXCAVATION ON THIS PROJECT (PHONE NO. (800) 642-2444 AS REQUIRED BY STATE LAW).
 - CONTRACTOR SHALL TAKE PRECAUTIONS NOT TO DAMAGE ANY EXISTING TREE AND FACILITIES INCLUDING UNDERGROUND UTILITIES, PIPES, STRUCTURES, AND TRAFFIC SIGNAL LOOPS. IT IS THE CONTRACTORS RESPONSIBILITY TO REPLACE OR REPAIR SUCH TREES AND FACILITIES AT HIS OWN EXPENSE IF DAMAGE OCCURS. CONTRACTOR SHALL CONTACT THE CITY OF CHICO PRIOR TO EXCAVATING IN OR AROUND ROOT SYSTEMS OF EXISTING TREES AND SHALL CONTACT DPW AND ENGINEERING PRIOR TO EXCAVATING NEAR CITY FACILITIES. THE CONTRACTOR SHALL USE ANY ALTERNATE MEANS AVAILABLE TO AVOID DAMAGE TO THE ROOTS OF TREES OR UNDERGROUND FACILITIES. SUCH METHODS INCLUDE, BUT ARE NOT LIMITED TO HAND TRENCHING, PNEUMATIC OR HYDRAULIC EXCAVATION, TUNNELING, PROBING OR EQUIPMENT SUBSTITUTION.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL EXISTING UTILITY PULL BOXES, MONUMENTS, VALVES, MANHOLES, ETC., AS NECESSARY TO MEET FINISH GRADES SHOWN ON PLANS.
 - KEEP ALL PLANTING, PAVING, AND CURB AREAS, INCLUDING THE PAVED NOSE AREAS, FREE FROM WEEDS, DEBRIS, AND TRASH DURING THE ENTIRE DURATION OF THE CONTRACT. CONTRACTOR SHALL APPLY PRE-EMERGENT HERBICIDES PER SPECIFICATIONS. WEED CONTROL HERBICIDES MAY BE APPLIED IF THE CITY INSPECTOR DEEMS IT NECESSARY. TYPE OF HERBICIDE TO BE USED AND METHOD OF APPLICATION SHALL BE APPROVED BY THE PARK DEPARTMENT.
 - "AS-BUILT" PLANS ARE TO BE PROVIDED TO THE CITY PRIOR TO COMMENCING THE 90 DAY MAINTENANCE PERIOD.
 - MAINTENANCE PERIOD SHALL BE 90 DAYS AND INCLUDED, BUT NOT LIMITED TO, ALL WATERING, WEEDING, STAKING, AND PLANT REPLACEMENT.
- PRE-CONSTRUCTION MEETING**
1. CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND ATTENDING A PRE-CONSTRUCTION MEETING, WHICH SHALL ALSO BE ATTENDED BY THE CITY INSPECTOR(S) ASSIGNED TO THE PROJECT, THE CITY OF CHICO AND PROJECT LANDSCAPE ARCHITECT. CONTRACTOR SHALL NOTIFY THE ENGINEERING DIVISION A MINIMUM OF TWENTY FOUR (24) HOURS PRIOR TO STARTING WORK, TO ARRANGE THE PRE-CONSTRUCTION MEETING (530-895-4884).
2. CONTRACTOR SHALL REQUEST SITE INSPECTIONS 24 HOURS PRIOR TO TIME NEEDED.
- SURVEY MONUMENTS**
1. SURVEY MONUMENTS MUST REMAIN INTACT AND UNDISTURBED UNLESS OTHERWISE INDICATED ON THE IMPROVEMENT PLANS. WHEN THE EXISTING MONUMENTS MUST BE REMOVED AND RESET TO PERFORM WORK IN THIS CONTRACT:
- THE CONTRACTOR SHALL PROVIDE ADVANCE NOTICE OF SEVENTY-TWO (72) HOURS MINIMUM TO THE CITY ENGINEER PRIOR TO TREE REMOVAL OF ANY EXISTING SURVEY MONUMENTS, SO THAT MONUMENTS CAN BE REFERENCED BEYOND LIMITS OF CONSTRUCTION BY CITY STAFF.
 - THE CONTRACTOR SHALL RE-INSTALL SURVEY MONUMENTS PER CITY STANDARDS USING A REGISTERED ENGINEER OF LAND SURVEYOR.
 - THE CONTRACTOR SHALL REFERENCE MONUMENTS AS SPECIFIED BY THE CITY ENGINEER.
- SOIL REPLACEMENT NOTES**
- MEDIANS AND PARKWAY STRIPS:
EXCAVATE AND REPLACE SOIL TO 30" PER DETAIL 1, SHEET L-1.8
 - CONSTRUCTION COMPACTION:
IF DURING THE COURSE OF CONSTRUCTION, SOILS BECOME COMPACTED, DECOMPACT TO A 12" DEPTH.
 - DEBRIS
REMOVE ALL CONCRETE OVERPOUR, ASPHALT DEBRIS, ROAD BASE, AND OTHER DEBRIS WHEN ENCOUNTERED.
 - CONSTRUCTION VEHICLES ARE NOT TO BE DRIVEN ON IMPORTED OR NATIVE SOILS AFTER THE RIPPING HAS TAKEN PLACE.

MODEL WATER EFFICIENT LANDSCAPE
ORDINANCE (MWEO) SOILS MANAGEMENT
REPORT NOTE

IN ORDER TO REDUCE RUNOFF AND ENCOURAGE HEALTHY PLANT GROWTH, A SOIL MANAGEMENT REPORT SHALL BE COMPLETED BY THE PROJECT APPLICANT, OR HIS/HER DESIGNEE, AS FOLLOWS:
SUBMIT SOIL SAMPLES TO A LABORATORY FOR ANALYSIS AND RECOMMENDATIONS (SUNLAND ANALYTICS OR EQUAL- PHONE: 916-852-8557).
SOIL SAMPLING SHALL BE CONDUCTED IN ACCORDANCE WITH LABORATORY PROTOCOL, INCLUDING PROTOCOLS REGARDING ADEQUATE SAMPLING DEPTH FOR THE INTENDED PLANTS.
THE SOIL ANALYSIS SHALL INCLUDE:
SOIL TEXTURE;
INFILTRATION RATE DETERMINED BY LABORATORY TEST OR SOIL TEXTURE INFILTRATION RATE TABLE;
PH;
TOTAL SOLUBLE SALTS;
SODIUM;
PERCENT ORGANIC MATTER; AND
RECOMMENDATIONS.
IN PROJECTS WITH MULTIPLE LANDSCAPE INSTALLATIONS (I.E. PRODUCTION HOME DEVELOPMENTS) A SOIL SAMPLING RATE OF 1 IN 7 LOTS OR APPROXIMATELY 15% WILL SATISFY THIS REQUIREMENT. LARGE LANDSCAPE PROJECTS SHALL SAMPLE AT A RATE EQUIVALENT TO 1 IN 7 LOTS.

THE PROJECT APPLICANT, OR HIS/HER DESIGNEE, SHALL COMPLY WITH ONE OF THE FOLLOWING:
IF SIGNIFICANT MASS GRADING IS NOT PLANNED, THE SOIL ANALYSIS REPORT SHALL BE SUBMITTED TO THE LOCAL AGENCY AS PART OF THE LANDSCAPE DOCUMENTATION PACKAGE; OR
IF SIGNIFICANT MASS GRADING IS PLANNED, THE SOIL ANALYSIS REPORT SHALL BE SUBMITTED TO THE LOCAL AGENCY AS PART OF THE CERTIFICATE OF COMPLETION.

THE SOIL ANALYSIS REPORT SHALL BE MADE AVAILABLE, IN A TIMELY MANNER, TO THE PROFESSIONALS PREPARING THE LANDSCAPE DESIGN PLANS AND IRRIGATION DESIGN PLANS TO MAKE ANY NECESSARY ADJUSTMENTS TO THE DESIGN PLANS. THE PROJECT APPLICANT, OR HIS/HER DESIGNEE, SHALL SUBMIT DOCUMENTATION VERIFYING IMPLEMENTATION OF SOIL ANALYSIS REPORT RECOMMENDATIONS TO THE LOCAL AGENCY WITH CERTIFICATE OF COMPLETION.

SOIL REPORT NOTE

THE PROJECT LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR OBTAINING SOILS ANALYSIS OF LANDSCAPE SOIL FOR PLANTING AREAS FROM AN ANALYTICAL LABORATORY AND AMENDING THE LANDSCAPE SOIL AS PER THE ANALYTICAL LABORATORY'S RECOMMENDATIONS FOR LANDSCAPES STATED IN RATES OF COMMONLY AVAILABLE AMENDMENTS (CUBIC YARDS OR WEIGHT PER 1,000 SF). SOILS TEST SHALL BE SUNLAND ANALYTICAL (916-852-8557) LANDSCAPE PACKAGE LTP 4 OR APPROVED EQUAL.

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BFLA Project Number: 2414

Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB					
Checked:	JBB	Date: 12-6-2023				

CITY OF CHICO
PUBLIC WORKS DEPARTMENT



BRUCE ROAD RECONSTRUCTION
LANDSCAPE CONSTRUCTION DETAILS AND NOTES

Project Number:	16038	Drawing Number:	L-120
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 132 of 182

Plan Status: ☐ Conceptual, ☐ Approved Final, ☐ Record

Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB			ADDENDUM 1	12-19-23	JBB
Checked:	JBB	Date: 12-6-2023				

CITY OF CHICO
PUBLIC WORKS DEPARTMENT



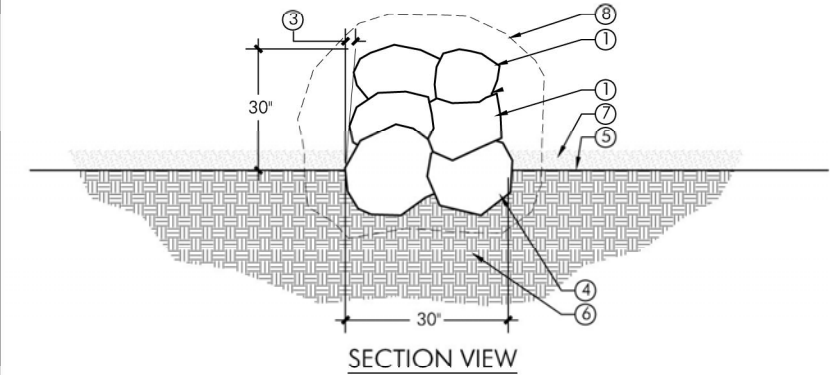
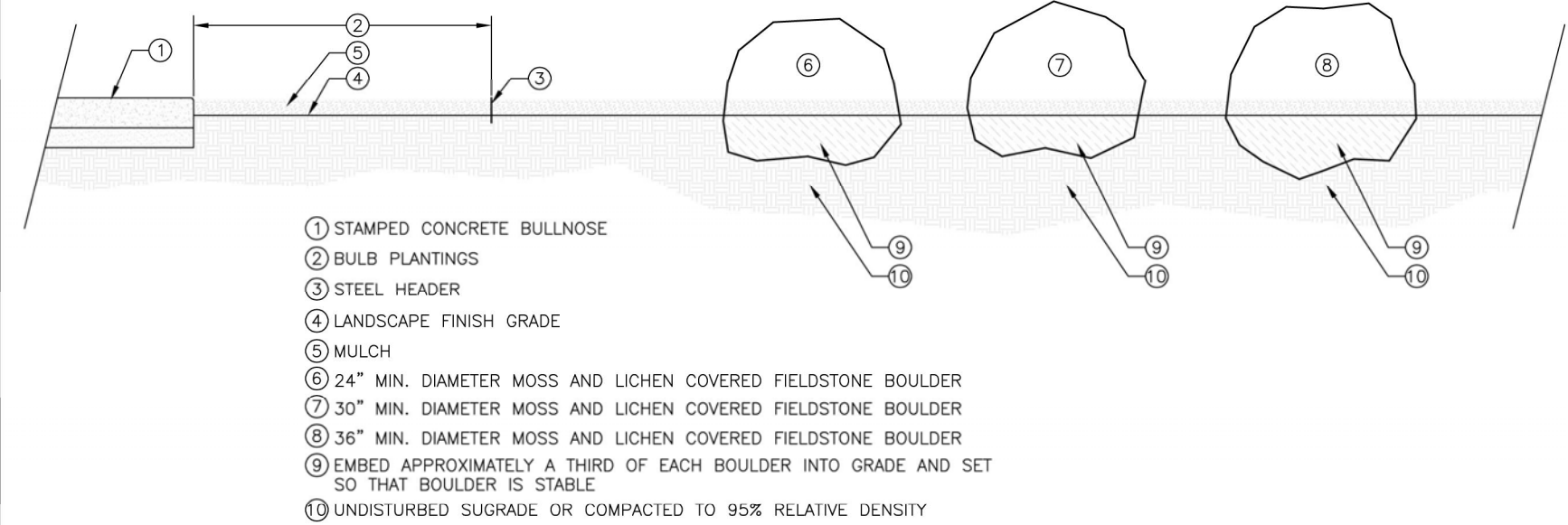
ROCK WALLS

1

LANDSCAPE BOULDER GROUPING

SCALE: NTS

1



- ① FIELDSTONE. SEE NOTES.
② NOT USED
③ BATTER 2" PER EVERY 12" HEIGHT
④ FOUNDATION COURSE. 18" - 24" DIAMETER, $\frac{1}{4}$ TO $\frac{1}{3}$ BURIED.
⑤ FINISH GRADE
⑥ UNDISTURBED SUBGRADE OR COMPACTED TO 95% RELATIVE DENSITY
⑦ TOP DRESSING
⑧ FIELDSTONE BOULDER (BEYOND SECTION). 30"-36" DIAMETER, $\frac{1}{4}$ TO $\frac{1}{3}$ BURIED. INCLUDE IN BASE BID.

NOTES:

- FIELDSTONE SHALL BE HEAD SIZED MOSS AND LICHEN COVERED FIELDSTONE. SUBMIT 3 REPRESENTATIVE STONES FOR LANDSCAPE ARCHITECT'S REVIEW AND APPROVAL PRIOR TO DELIVERY TO PROJECT SITE.
- STONES ARE PROVIDED BY CITY. CONTRACTOR SHALL COORDINATE WITH DEVELOPER FOR ACCESS.
- CONTRACTOR SHALL LAY UP A REPRESENTATIVE 3' MOCK-UP OF WALL FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING WITH CONSTRUCTION OF WALLS.

1

SCALE: NTS

3

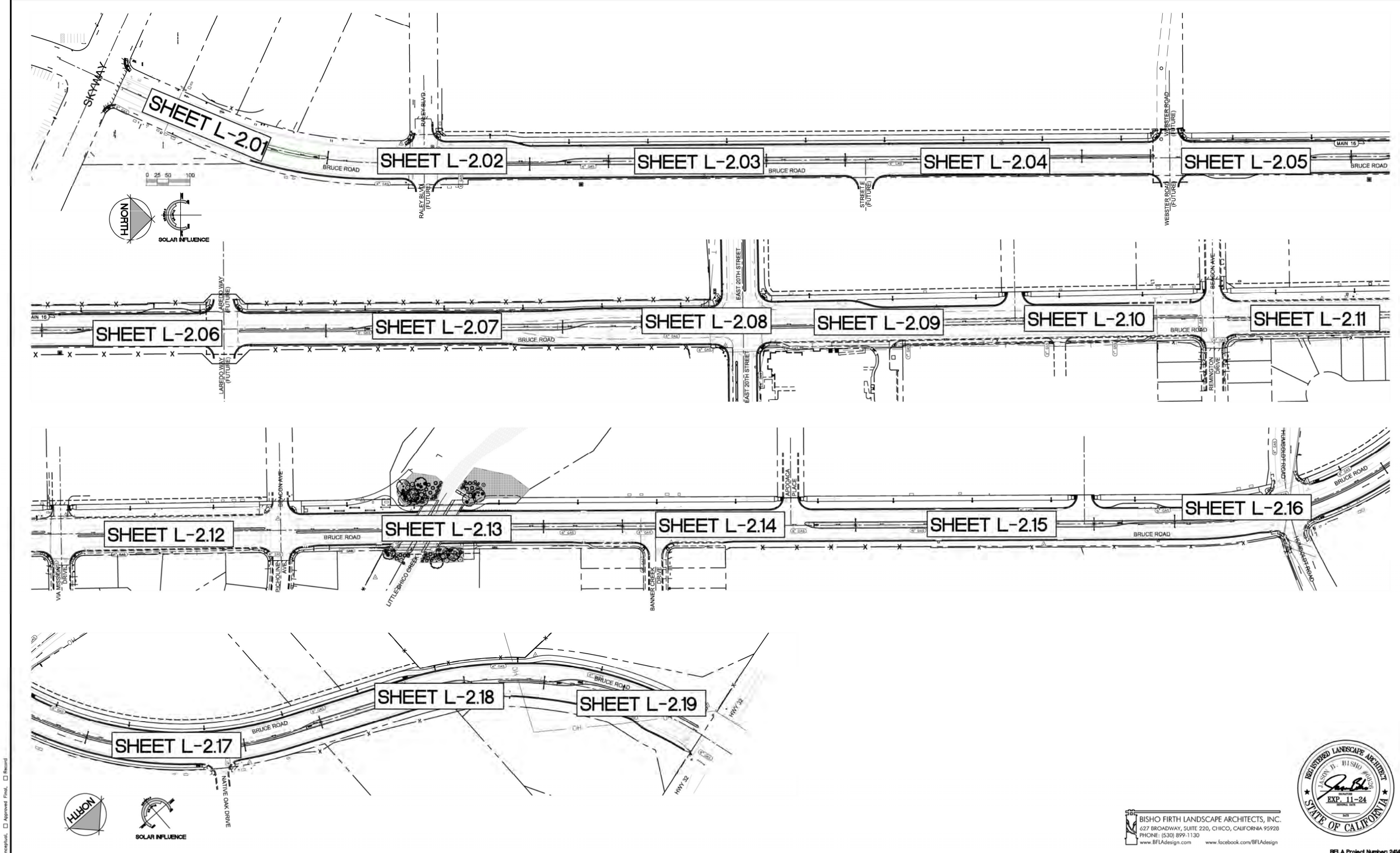


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BFLA Project Number: 2414

Project Number: 16038	Drawing Number: L-121
Scale: PER PLAN Horizontal PER PLAN Vertical	Sheet 133 of 182



Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB	Date:	12-6-2023			
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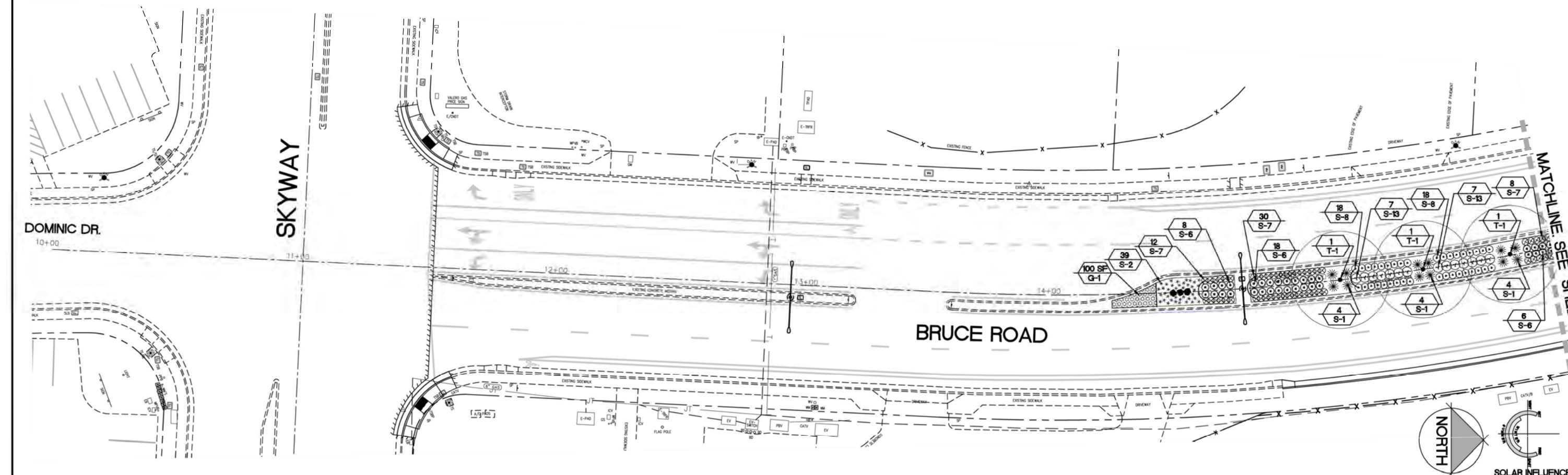
BRUCE ROAD RECONSTRUCTION
LANDSCAPE PLANTING PLAN- REFERENCE SHEET

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Project Number:	16038	Drawing Number:	L-200
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BFLA Project Number: 2414



TREE LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
TREES					
T-1 •	QUERCUS LOBATA VALLEY OAK	LOW	15 GAL	74	SEE DETAIL LS-4 SHEET L-2.20 STANDARD.
T-2 *	NYSSA SYLVATICA SOUR GUM/ BLACK TUPELO	LOW	15 GAL	19	SEE DETAIL LS-4 SHEET L-2.20 STANDARD.
T-3	PISTACHIA CHINENSIS 'KEITH DAVIES' KEITH DAVIES CHINESE PISTACHE	LOW	15 GAL	5	SEE DETAIL LS-4 SHEET L-2.20 STANDARD.
T-4 +	QUERCUS WISLIZENI INTERIOR LIVE OAK	LOW	15 GAL	35	SEE DETAIL LS-4 SHEET L-2.20 STANDARD.
SEE SHEET L-2.20 FOR DETAILS AND ADDITIONAL NOTES. SEE BOOK FORM SPECIFICATIONS FOR ADDITIONAL INFORMATION					

SHRUB LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-1 *	FORTNIGHT LILY DIETES IRIDIODES	LOW	5 GAL	451	SEE DETAIL LS-6, SHEET L-2.20.
S-2 *	FESTUCA 'SISKIYOU BLUE' SISKIYOU BLUE FESCUE	LOW	1 GAL	605	SEE DETAIL LS-6, SHEET L-2.20.
S-3 •	RHAPHIOLEPIS UMBELLATA 'MINOR' DWARF YEDDA HAWTHORN	LOW	5 GAL	130	SEE DETAIL LS-6, SHEET L-2.20.
S-4 •	MAHONIA AQUIFOLIUM 'COMPACTA' COMPACT OREGON GRAPE	LOW	5 GAL	514	SEE DETAIL LS-6, SHEET L-2.20.
S-5 •	SALVIA GREGII 'RED' RED FLOWERING AUTUMN SAGE	LOW	5 GAL	472	SEE DETAIL LS-6, SHEET L-2.20.
S-6 •	ROSA X 'NOARE' FLOWER CARPET RED GROUNDCOVER ROSE	MED	5 GAL	449	SEE DETAIL LS-6, SHEET L-2.20.
S-7 •	TEUCRIUM CHAMAEDRYS 'PROSTRATUM' COMPACT CREEPING GERMANDER	LOW	1 GAL	1,311	SEE DETAIL LS-6, SHEET L-2.20.
S-8 •	BACCHARIS PILULARIS 'TWIN PEAKS' DWARF COYOTE BRUSH	LOW	1 GAL	180	SEE DETAIL LS-6, SHEET L-2.20.
S-9 •	BERBERIS THUNBERGII 'CRIMSON PYGMY' (ATROPURPUREA NANA) CRIMSON PYGMY DWARF JAPANESE BARBERRY	LOW	1 GAL	144	SEE DETAIL LS-6, SHEET L-2.20.
S-10 •	CISTUS X PULVERULENTUS 'SUNSET' MAGENTA ROCKROSE	LOW	1 GAL	64	SEE DETAIL LS-6, SHEET L-2.20.

SHRUB LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-11 •	SALVIA X 'BEE'S BLISS' BEE'S BLISS SAGE	LOW	1 GAL	54	SEE DETAIL LS-6, SHEET L-2.20.
S-12 •	NANDINA DOMESTICA 'GULF STREAM' GULF STREAM HEAVENLY BAMBOO	LOW	1 GAL	211	SEE DETAIL LS-6, SHEET L-2.20.
S-13 •	ABELIA X GRANDIFLORA 'ABELOPS' SUNSHINE DAYDREAM ABELIA	LOW	1 GAL	69	SEE DETAIL LS-6, SHEET L-2.20.
S-14 *	TULBAGHIA VIOLACEA SOCIETY GARLIC	LOW	1 GAL	684	SEE DETAIL LS-6, SHEET L-2.20.
S-15 •	ACHILLEA X 'MOONSHINE' MOONSHINE YARROW	LOW	1 GAL	816	SEE DETAIL LS-6, SHEET L-2.20.
S-16 •	ARCTOSTAPHYLOS UVA URSI 'WOOD'S COMPACT' WOOD'S COMPACT KINNICK KINNICK	MED	1 GAL	349	SEE DETAIL LS-6, SHEET L-2.20.
BULBS					
B-1	NARCISSUS DAFFODIL	VERY LOW	BULBS	1,632 SF	PLANT • 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED.
B-2	AMARYLLIS MARCH LILY	VERY LOW	BULBS	287 SF	PLANT • 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED.
SYMBOL					
88	PLANT QUANTITY				
S-88	PLANT TYPE				

Plan Status: ☐ Conceptual, ☐ Approved Final, ☐ Record

Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB					
Checked:	JBB	Date:	12-6-2023			

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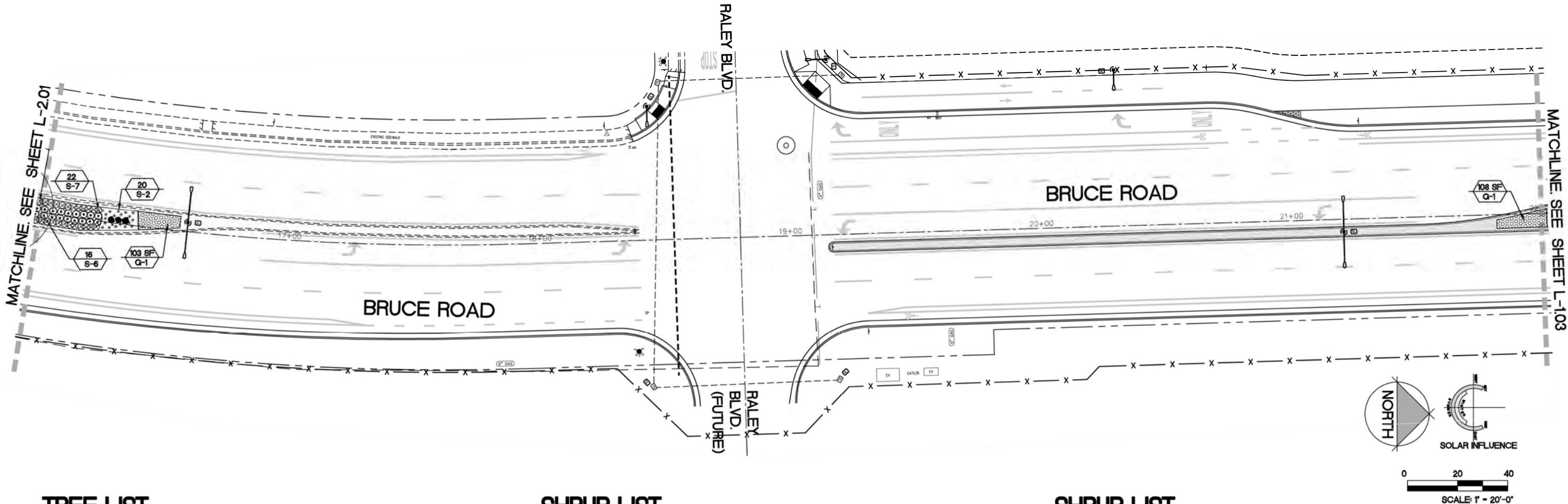
BRUCE ROAD RECONSTRUCTION
LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 16+00 TO 22+00

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BFLA Project Number: 2414

Project Number:	16038	Drawing Number:	L-202
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 136 of 182



TREE LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
TREES					
T-1 •	QUERCUS LOBATA VALLEY OAK	LOW	15 GAL	74	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-2 *	NYSSA SYLVATICA POUR GUM/ BLACK TUPelo	LOW	15 GAL	19	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-3	PISTACHIA CHINEASIS 'KEITH DAVIES' KEITH DAVIES CHINESE PISTACHE	LOW	15 GAL	5	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-4 +	QUERCUS WISLIZENI INTERIOR LIVE OAK	LOW	15 GAL	35	SEE DETAIL LS-4 SHEET L-220 STANDARD.
SEE SHEET L-220 FOR DETAILS AND ADDITIONAL NOTES. SEE BOOK FORM SPECIFICATIONS FOR ADDITIONAL INFORMATION					

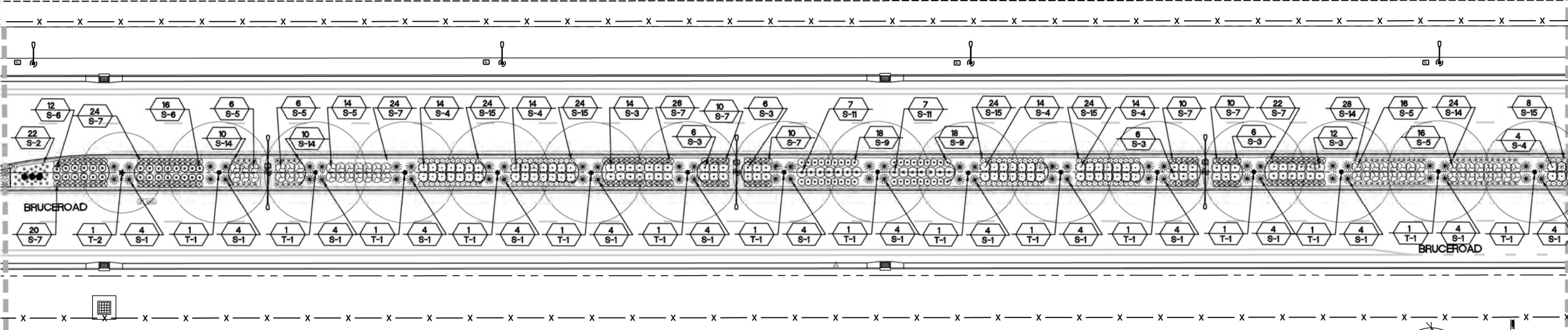
SHRUB LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-1 *	FORTNIGHT LILY DIETES IRIDOIDES	LOW	5 GAL	451	SEE DETAIL LS-6, SHEET L-220.
S-2 *	FESTUCA 'SISKIYOU BLUE' SISKIYOU BLUE FESCUE	LOW	1 GAL	605	SEE DETAIL LS-6, SHEET L-220.
S-3 •	RHAPHIOLEPIS UMBELLATA 'MINOR' DWARF YEDDA HAWTHORN	LOW	5 GAL	130	SEE DETAIL LS-6, SHEET L-220.
S-4 •	MAHONIA AQUIFOLIUM 'COMPACTA' COMPACT OREGON GRAPE	LOW	5 GAL	514	SEE DETAIL LS-6, SHEET L-220.
S-5 •	SALVIA GREGII 'RED' RED FLOWERING AUTUMN SAGE	LOW	5 GAL	472	SEE DETAIL LS-6, SHEET L-220.
S-6 •	ROSA X 'NOARE' FLOWER CARPET RED GROUND COVER ROSE	MED	5 GAL	449	SEE DETAIL LS-6, SHEET L-220.
S-7 •	TEUCRUM CHAMAEDRYIS 'PROSTRATUM' COMPACT CREEPING GERMANDER	LOW	1 GAL	1311	SEE DETAIL LS-6, SHEET L-220.
S-8 •	BACCHARIS PILULARIS 'TWIN PEAKS' DWARF COYOTE BRUSH	LOW	1 GAL	180	SEE DETAIL LS-6, SHEET L-220.
S-9 •	BERBERIS THUNBERGII 'CRIMSON PYGMY' (ATROPURPUREA NANA) CRIMSON PYGMY DWARF JAPANESE BARBERRY	LOW	1 GAL	144	SEE DETAIL LS-6, SHEET L-220.
S-10 •	CISTUS X PULVERULENTUS 'SUNSET' MAGENTA ROCKROSE	LOW	1 GAL	64	SEE DETAIL LS-6, SHEET L-220.

SHRUB LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-11 •	SALVIA X 'BEE'S BLISS' BEE'S BLISS SAGE	LOW	1 GAL	54	SEE DETAIL LS-6, SHEET L-220.
S-12 •	NANDINA DOMESTICA 'GULF STREAM' GULF STREAM HEAVENLY BAMBOO	LOW	1 GAL	211	SEE DETAIL LS-6, SHEET L-220.
S-13 •	ABELIA X GRANDIFLORA 'ABELOPS' SUNSHINE DAYDREAM ABELIA	LOW	1 GAL	69	SEE DETAIL LS-6, SHEET L-220.
S-14 *	TULBAGHIA VIOLACEA SOCIETY GARLIC	LOW	1 GAL	684	SEE DETAIL LS-6, SHEET L-220.
S-15 •	ACHILLEA X 'MOONSHINE' MOONSHINE YARROW	LOW	1 GAL	816	SEE DETAIL LS-6, SHEET L-220.
S-16 •	ARCTOSTAPHYLOS UVA URSI 'WOOD'S COMPACT' WOOD'S COMPACT KINNICK KINNICK	MED	1 GAL	349	SEE DETAIL LS-6, SHEET L-220.
BULBS					
B-1	NARCISSUS DAFFODIL	VERY LOW	BULBS	1,632 SF	PLANT • 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED.
B-2	AMARYLLIS MARCH LILY	VERY LOW	BULBS	287 SF	PLANT • 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED.
SYMBOL					
88	PLANT QUANTITY				
S-88	PLANT TYPE				

MATCHLINE: SEE SHEET L-102



MATCHLINE: SEE SHEET L-104

TREE LIST

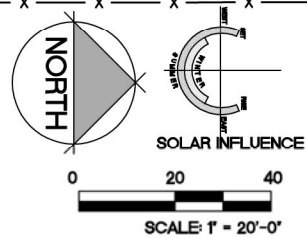
SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
TREES					
T-1 *	QUERCUS LOBATA VALLEY OAK	LOW	15 GAL.	74	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-2 *	NYSSA SYLVATICA SOUR GUM/ BLACK TUPELO	LOW	15 GAL.	19	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-3	PISTACHIA CHINENSIS 'KEITH DAVIES' KEITH DAVIES CHINESE PISTACHE	LOW	15 GAL.	5	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-4 +	QUERCUS WISLIZENI INTERIOR LIVE OAK	LOW	15 GAL.	35	SEE DETAIL LS-4 SHEET L-220 STANDARD.
SEE SHEET L-220 FOR DETAILS AND ADDITIONAL NOTES. SEE BOOK FORM SPECIFICATIONS FOR ADDITIONAL INFORMATION					

SHRUB LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-1 *	FORTNIGHT LILY DIETES IRIDOIDES	LOW	5 GAL.	451	SEE DETAIL LS-6, SHEET L-220.
S-2 *	FESTUCA 'SISKIYOU BLUE' SISKIYOU BLUE FESCUE	LOW	1 GAL.	605	SEE DETAIL LS-6, SHEET L-220.
S-3 *	RHAPHIOLEPIS UMBELLATA 'MINOR' YEDDA HAWTHORN	LOW	5 GAL.	130	SEE DETAIL LS-6, SHEET L-220.
S-4 *	MAHONIA AQUIFOLIUM 'COMPACTA' COMPACT OREGON GRAPE	LOW	5 GAL.	514	SEE DETAIL LS-6, SHEET L-220.
S-5 *	SALVIA GREGII 'RED' RED FLOWERING AUTUMN SAGE	LOW	5 GAL.	472	SEE DETAIL LS-6, SHEET L-220.
S-6 *	ROSA X 'NOARE' FLOWER CARPET RED GROUNDCOVER ROSE	MED	5 GAL.	449	SEE DETAIL LS-6, SHEET L-220.
S-7 *	TEUCRIUM CHAMAEDRY'S 'PROSTRATUM' COMPACT CREEPING GERMANDER	LOW	1 GAL.	1,311	SEE DETAIL LS-6, SHEET L-220.
S-8 *	BACCHARIS PILULARIS 'TWIN PEAKS' DWARF COYOTE BRUSH	LOW	1 GAL.	180	SEE DETAIL LS-6, SHEET L-220.
S-9 *	BERBERIS THUNBERGII 'CRIMSON PYGMY' (ATROPURPUREA NANA) CRIMSON PYGMY DWARF JAPANESE BARBERRY	LOW	1 GAL.	144	SEE DETAIL LS-6, SHEET L-220.
S-10 *	CISTUS X PULVERULENTUS 'SUNSET' MAGENTA ROCKROSE	LOW	1 GAL.	64	SEE DETAIL LS-6, SHEET L-220.

SHRUB LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-11 *	SALVIA X 'BEE'S BLISS' BEE'S BLISS SAGE	LOW	1 GAL.	54	SEE DETAIL LS-6, SHEET L-220.
S-12 *	NANDINA DOMESTICA 'GULF STREAM' GULF STREAM HEAVENLY BAMBOO	LOW	1 GAL.	211	SEE DETAIL LS-6, SHEET L-220.
S-13 *	ABELIA X GRANDIFLORA 'ABELOPS' SUNSHINE DAYDREAM ABELIA	LOW	1 GAL.	69	SEE DETAIL LS-6, SHEET L-220.
S-14 *	TULBAGHIA VIOLACEA SOCIETY GARLIC	LOW	1 GAL.	684	SEE DETAIL LS-6, SHEET L-220.
S-15 *	ACHILLEA X 'MOONSHINE' MOONSHINE YARROW	LOW	1 GAL.	816	SEE DETAIL LS-6, SHEET L-220.
S-16 *	ARCTOSTAPHYLOS UVA URSI 'WOOD'S COMPACT' WOOD'S COMPACT KINNICK KINNICK	MED	1 GAL.	349	SEE DETAIL LS-6, SHEET L-220.
BULBS					
B-1 *	NARCISSUS DAFFODIL	VERY LOW	BULBS	1,632 SF	PLANT • 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED.
B-2 *	AMARYLLIS MARCH LILY	VERY LOW	BULBS	287 SF	PLANT • 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED.
SYMBOL					
88	PLANT QUANTITY				
S-88	PLANT TYPE				



Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB					
Checked:	JBB	Date:	12-6-2023			

CITY OF CHICO
PUBLIC WORKS DEPARTMENT



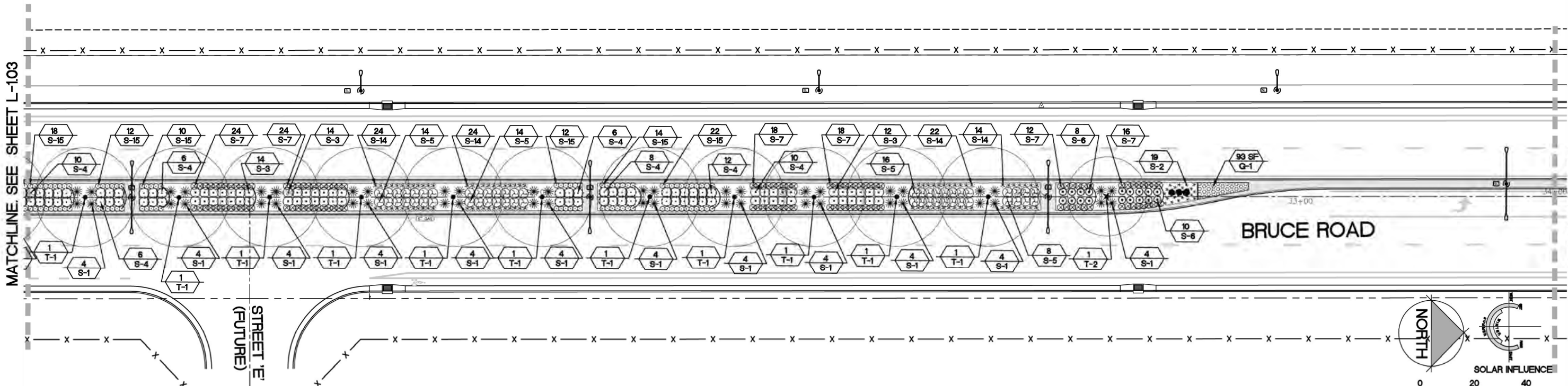
BRUCE ROAD RECONSTRUCTION
LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 22+00 TO 28+00

BISHO FIRTH LANDSCAPE ARCHITECTS, INC.
427 BROADWAY, SUITE 220, CHICO, CALIFORNIA 95928
PHONE: (530) 899-1130
www.BFLAdesign.com www.facebook.com/BFLAdesign



BFLA Project Number: 2414

Project Number:	16038	Drawing Number:	L-203
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 137 of 182



TREE LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
TREES					
T-1 •	QUERCUS LOBATA VALLEY OAK	LOW	15 GAL.	74	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-2 *	NYSSA SYLVATICA SOUR GUM/ BLACK TUPELO	LOW	15 GAL.	19	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-3	PISTACHIA CHINENSIS 'KEITH DAVIES' KEITH DAVIES CHINESE PISTACHE	LOW	15 GAL.	5	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-4 •	QUERCUS WISLIZENI INTERIOR LIVE OAK	LOW	15 GAL.	35	SEE DETAIL LS-4 SHEET L-220 STANDARD.
SEE SHEET L-220 FOR DETAILS AND ADDITIONAL NOTES. SEE BOOK FORM SPECIFICATIONS FOR ADDITIONAL INFORMATION					

SHRUB LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-1 *	FORTNIGHT LILY DIETES IRIDOIDES	LOW	5 GAL.	451	SEE DETAIL LS-6, SHEET L-220.
S-2 *	FESTUCA 'SISKIYOU BLUE' SISKIYOU BLUE FESCUE	LOW	1 GAL.	605	SEE DETAIL LS-6, SHEET L-220.
S-3 •	RHAPHIOLEPIS UMBELLATA 'MINOR' DWARF YEDDA HAWTHORN	LOW	5 GAL.	130	SEE DETAIL LS-6, SHEET L-220.
S-4 •	MAHONIA AQUIFOLIUM 'COMPACTA' COMPACT OREGON GRAPE	LOW	5 GAL.	514	SEE DETAIL LS-6, SHEET L-220.
S-5 •	SALVIA GREGII 'RED' RED FLOWERING AUTUMN SAGE	LOW	5 GAL.	472	SEE DETAIL LS-6, SHEET L-220.
S-6 •	ROSA X 'NOARE' FLOWER CARPET RED GROUNDCOVER ROSE	MED	5 GAL.	449	SEE DETAIL LS-6, SHEET L-220.
S-7 •	TEUCRIUM CHAMAEDRYIS 'PROSTRATUM' COMPACT CREEPING GERMANDER	LOW	1 GAL.	1,311	SEE DETAIL LS-6, SHEET L-220.
S-8 •	BACCHARIS PILULARIS 'TWIN PEAKS' DWARF COYOTE BRUSH	LOW	1 GAL.	180	SEE DETAIL LS-6, SHEET L-220.
S-9 •	BERBERIS THUNBERGII 'CRIMSON PYGMY' (ATROPURPUREA NANA) CRIMSON PYGMY DWARF JAPANESE BARBERRY	LOW	1 GAL.	144	SEE DETAIL LS-6, SHEET L-220.
S-10 •	CISTUS X PULVERULENTUS 'SUNSET' MAGENTA ROCKROSE	LOW	1 GAL.	64	SEE DETAIL LS-6, SHEET L-220.

SHRUB LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-11 •	SALVIA X 'BEE'S BLISS' BEE'S BLISS SAGE	LOW	1 GAL.	54	SEE DETAIL LS-6, SHEET L-220.
S-12 •	NANDINA DOMESTICA 'GULF STREAM' GULF STREAM HEAVENLY BAMBOO	LOW	1 GAL.	211	SEE DETAIL LS-6, SHEET L-220.
S-13 •	ABELIA X GRANDIFLORA 'ABELOPS' SUNSHINE DAYDREAM ABELIA	LOW	1 GAL.	69	SEE DETAIL LS-6, SHEET L-220.
S-14 *	TULBAGHIA VIOLACEA SOCIETY GARLIC	LOW	1 GAL.	684	SEE DETAIL LS-6, SHEET L-220.
S-15 •	ACHILLEA X 'MOONSHINE' MOONSHINE YARROW	LOW	1 GAL.	816	SEE DETAIL LS-6, SHEET L-220.
S-16 •	ARCTOSTAPHYLOS UVA URSI 'WOOD'S COMPACT' WOOD'S COMPACT KINNICK KINNICK	MED	1 GAL.	349	SEE DETAIL LS-6, SHEET L-220.
BULBS					
B-1	NARCISSUS DAFFODIL	VERY LOW	BULBS	1,632 SF	PLANT • 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED.
B-2	AMARYLLIS MARCH LILY	VERY LOW	BULBS	287 SF	PLANT • 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED.
SYMBOL					
88	PLANT QUANTITY				
S-88	PLANT TYPE				

Plan Status: ☐ Conceptual, ☐ Approved Final, ☐ Record

Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB	Date:	12-6-2023			
Checked:	JBB					

CITY OF CHICO
PUBLIC WORKS DEPARTMENT

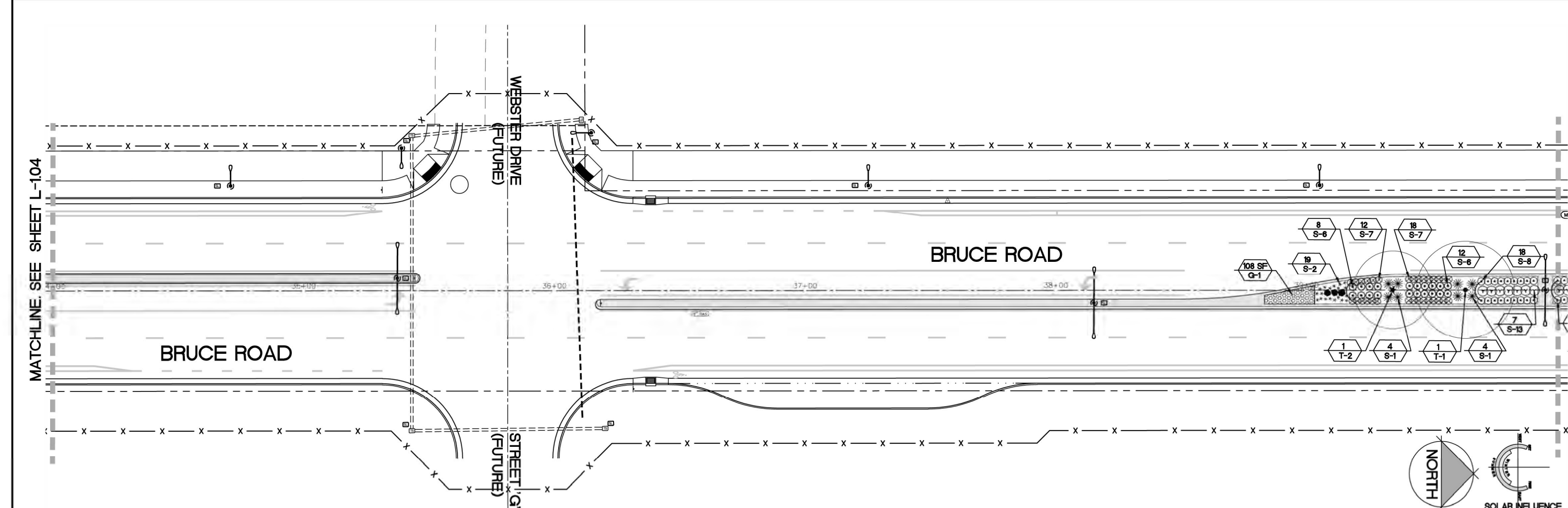


BRUCE ROAD RECONSTRUCTION
LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 28+00 TO 34+00

BISHO FIRTH LANDSCAPE ARCHITECTS, INC.
427 BROADWAY, SUITE 220, CHICO, CALIFORNIA 95928
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Project Number:	16038	Drawing Number:	L-204
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 138 of 182



TREE LIST

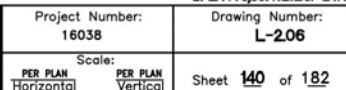
SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
TREES					
T-1 •	QUERCUS LOBATA VALLEY OAK	LOW	15 GAL	74	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-2 •	NYSSA SYLVATICA SOUR GUM/ BLACK TUPELO	LOW	15 GAL	19	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-3 •	PISTACHIA CHINENSIS 'KEITH DAVIES' KEITH DAVIES CHINESE PISTACHE	LOW	15 GAL	5	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-4 •	QUERCUS WISLIZENI INTERIOR LIVE OAK	LOW	15 GAL	35	SEE DETAIL LS-4 SHEET L-220 STANDARD.
SEE SHEET L-2.20 FOR DETAILS AND ADDITIONAL NOTES. SEE BOOK FORM SPECIFICATIONS FOR ADDITIONAL INFORMATION					

SHRUB LIST

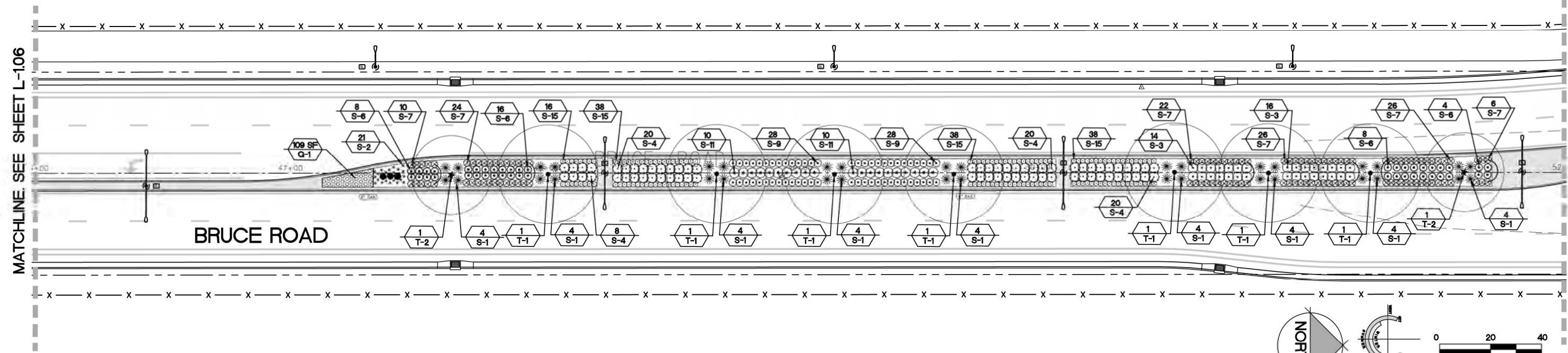
SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-1 *	FORTNIGHT LILY DIETES IRIDOIDES	LOW	5 GAL	451	SEE DETAIL LS-6, SHEET L-220.
S-2 *	FESTUCA 'SISKIYOU BLUE' SISKIYOU BLUE FESCUE	LOW	1 GAL	605	SEE DETAIL LS-6, SHEET L-220.
S-3 •	RHAPHIOLEPIS UMBELLATA 'MINOR' DWARF YEDDA HAWTHORN	LOW	5 GAL	130	SEE DETAIL LS-6, SHEET L-220.
S-4 •	MAHONIA AQUIFOLIUM 'COMPACTA' COMPACT OREGON GRAPE	LOW	5 GAL	514	SEE DETAIL LS-6, SHEET L-220.
S-5 •	SALVIA GREGGII 'RED' RED FLOWERING AUTUMN SAGE	LOW	5 GAL	472	SEE DETAIL LS-6, SHEET L-220.
S-6 •	ROSA X 'NOARE' FLOWER CARPET RED GROUNDCOVER ROSE	MED	5 GAL	449	SEE DETAIL LS-6, SHEET L-220.
S-7 •	TEUCRIUM CHAMAEDRYIS 'PROSTRATUM' COMPACT CREEPING GERMANDER	LOW	1 GAL	1311	SEE DETAIL LS-6, SHEET L-220.
S-8 •	BACCHARIS PILULARIS 'TWIN PEAKS' DWARF COYOTE BRUSH	LOW	1 GAL	180	SEE DETAIL LS-6, SHEET L-220.
S-9 •	BERBERIS THUNBERGII 'CRIMSON PYGMY' (ATROPURPUREA NANA) CRIMSON PYGMY DWARF JAPANESE BARBERRY	LOW	1 GAL	144	SEE DETAIL LS-6, SHEET L-220.
S-10 •	CISTUS X PULVERULENTUS 'SUNSET' MAGENTA ROCKROSE	LOW	1 GAL	64	SEE DETAIL LS-6, SHEET L-220.

SHRUB LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-11 •	SALVIA X 'BEE'S BLISS' BEE'S BLISS SAGE	LOW	1 GAL	54	SEE DETAIL LS-6, SHEET L-220.
S-12 •	NANDINA DOMESTICA 'GULF STREAM' GULF STREAM HEAVENLY BAMBOO	LOW	1 GAL	211	SEE DETAIL LS-6, SHEET L-220.
S-13 •	ABELIA X GRANDIFLORA 'ABELOPS' SUNSHINE DAYDREAM ABELIA	LOW	1 GAL	69	SEE DETAIL LS-6, SHEET L-220.
S-14 •	TULBAGHIA VIOLACEA SOCIETY GARLIC	LOW	1 GAL	684	SEE DETAIL LS-6, SHEET L-220.
S-15 •	ACHILLEA X 'MOONSHINE' MOONSHINE YARROW	LOW	1 GAL	816	SEE DETAIL LS-6, SHEET L-220.
S-16 •	ARCTOSTAPHYLOS UVA URSI 'WOOD'S COMPACT' WOOD'S COMPACT KINNICK KINNICK	MED	1 GAL	349	SEE DETAIL LS-6, SHEET L-220.
BULBS					
B-1 •	NARCISSUS DAFFODIL	VERY LOW	BULBS	1,632 SF	PLANT • 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED.
B-2 •	AMARYLLIS MARCH LILY	VERY LOW	BULBS	287 SF	PLANT • 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED.
SYMBOL					
88	PLANT QUANTITY				
S-88	PLANT TYPE				



Plan Status: ☐ Conceptual, ☐ Approved Final, ☐ Record



TREE LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
TREES					
T-1 •	QUERCUS LOBATA VALLEY OAK	LOW	15 GAL	74	SEE DETAIL LS-4 SHEET L-2.20 STANDARD.
T-2 ★	NYSSA SYLVATICA SOUR GUM/ BLACK TUPELO	LOW	15 GAL	19	SEE DETAIL LS-4 SHEET L-2.20 STANDARD.
T-3	PISTACHIA CHINENSIS 'KEITH DAVIES' KEITH DAVIES CHINESE PISTACHE	LOW	15 GAL	5	SEE DETAIL LS-4 SHEET L-2.20 STANDARD.
T-4 +	QUERCUS WISLIZENI INTERIOR LIVE OAK	LOW	15 GAL	35	SEE DETAIL LS-4 SHEET L-2.20 STANDARD.
SEE SHEET L-2.20 FOR DETAILS AND ADDITIONAL NOTES. SEE BOOK FORM SPECIFICATIONS FOR ADDITIONAL INFORMATION					

SHRUB LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-1	FORTNIGHT LILY DIETES IRIDOIDES	LOW	5 GAL	451	SEE DETAIL LS-6, SHEET L-2.20.
S-2 *	FESTUCA 'SISKIYOU BLUE' SISKIYOU BLUE FESCUE	LOW	1 GAL	605	SEE DETAIL LS-6, SHEET L-2.20.
S-3	RHAPHIOLEPS UMBELLATA 'MINOR' DWARF YEDDA HAWTHORN	LOW	5 GAL	130	SEE DETAIL LS-6, SHEET L-2.20.
S-4	MAHONIA AQUIFOLIUM 'COMPACTA' COMPACT OREGON GRAPE	LOW	5 GAL	514	SEE DETAIL LS-6, SHEET L-2.20.
S-5	SALVIA GREGII 'RED' RED FLOWERING AUTUMN SAGE	LOW	5 GAL	472	SEE DETAIL LS-6, SHEET L-2.20.
S-6	ROSA X 'NOARE' FLOWER CARPET RED GROUNDCOVER ROSE	MED	5 GAL	449	SEE DETAIL LS-6, SHEET L-2.20.
S-7	TEUCRIUM CHAMAEDRYIS 'PROSTRATUM' COMPACT CREEPING GERMANDER	LOW	1 GAL	1,311	SEE DETAIL LS-6, SHEET L-2.20.
S-8	BACCHARIS PILULARIS 'TWIN PEAKS' DWARF COYOTE BRUSH	LOW	1 GAL	180	SEE DETAIL LS-6, SHEET L-2.20.
S-9	BERBERIS THUNBERGII 'CRIMSON PYGMY' (ATROPURPUREA NANA) CRIMSON PYGMY DWARF JAPANESE BARBERRY	LOW	1 GAL	144	SEE DETAIL LS-6, SHEET L-2.20.
S-10	CISTUS X PULVERULENTUS 'SUNSET' MAGENTA ROCKROSE	LOW	1 GAL	64	SEE DETAIL LS-6, SHEET L-2.20.

SHRUB LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-11	SALVIA X 'BEE'S BLISS' BEE'S BLISS SAGE	LOW	1 GAL	54	SEE DETAIL LS-6, SHEET L-2.20.
S-12	NANDINA DOMESTICA 'GULF STREAM' GULF STREAM HEAVENLY BAMBOO	LOW	1 GAL	211	SEE DETAIL LS-6, SHEET L-2.20.
S-13	ABELIA X GRANDIFLORA 'ABELOPS' SUNSHINE DAYDREAM ABELIA	LOW	1 GAL	69	SEE DETAIL LS-6, SHEET L-2.20.
S-14	TULBAGHIA VIOLACEA SOCIETY GARLIC	LOW	1 GAL	684	SEE DETAIL LS-6, SHEET L-2.20.
S-15	ACHILLEA X 'MOONSHINE' MOONSHINE YARROW	LOW	1 GAL	816	SEE DETAIL LS-6, SHEET L-2.20.
S-16	ARCTOSTAPHYLOS UVA URSI 'WOOD'S COMPACT' WOOD'S COMPACT KINNICK KINNICK	MED	1 GAL	349	SEE DETAIL LS-6, SHEET L-2.20.
BULBS					
B-1	NARCISUS DAFFODIL	VERY LOW	BULBS	1,632 SF	PLANT • 12" O.C. SEE PLANTING NOTE #6, SHEET L-1.8. NON-IRRIGATED.
B-2	AMARYLLIS MARCH LILY	VERY LOW	BULBS	287 SF	PLANT • 12" O.C. SEE PLANTING NOTE #6, SHEET L-1.8. NON-IRRIGATED.
SYMBOL					
88	PLANT QUANTITY				
S-88	PLANT TYPE				

BISHO FIRTH LANDSCAPE ARCHITECTS, INC.
427 BROADWAY, SUITE 220, CHICO, CALIFORNIA 95928
PHONE: (530) 899-1130
www.BFLAdesign.com www.facebook.com/BFLAdesign

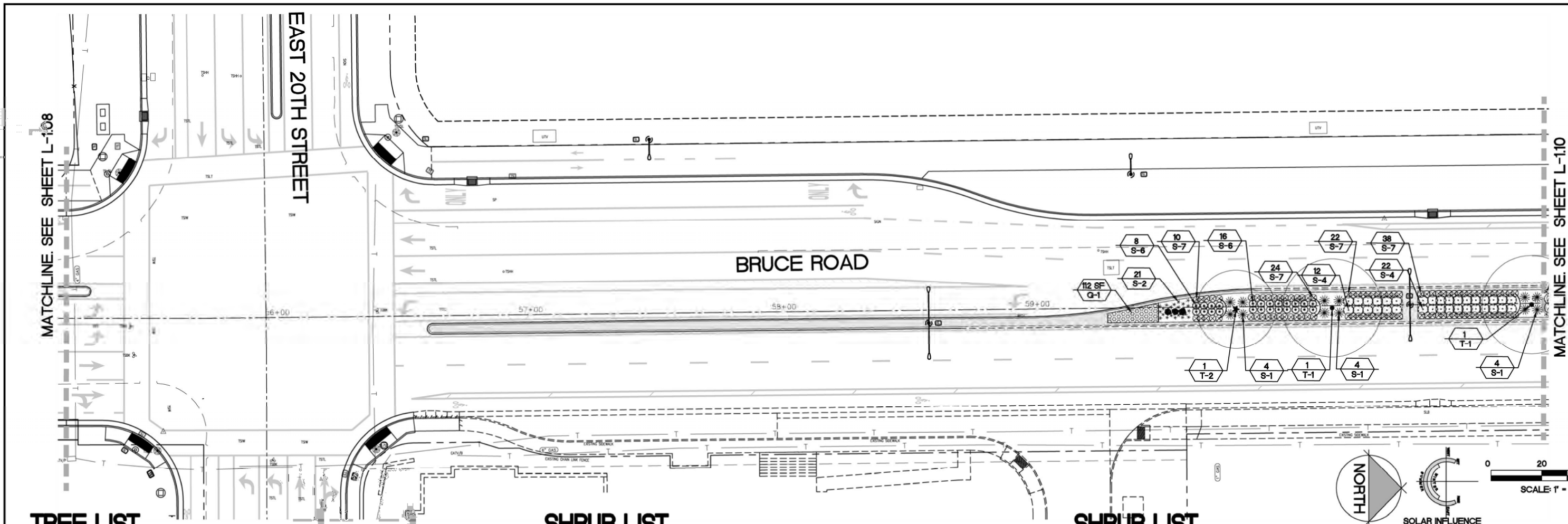


CITY OF CHICO
PUBLIC WORKS DEPARTMENT



BRUCE ROAD RECONSTRUCTION
LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 46+00 TO 52+00

Project Number: 16038	Drawing Number: L-207
Scale: PER PLAN Horizontal PER PLAN Vertical	Sheet 141 of 182



TREE LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
TREES					
T-1 •	QUERCUS LOBATA VALLEY OAK	LOW	15 GAL	74	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-2 *	NYSSA SYLVATICA SOUR GUM/ BLACK TUPELO	LOW	15 GAL	19	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-3	PISTACHIA CHINENSIS 'KEITH DAVIES' KEITH DAVIES CHINESE PISTACHE	LOW	15 GAL	5	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-4 +	QUERCUS WISLIZENI INTERIOR LIVE OAK	LOW	15 GAL	35	SEE DETAIL LS-4 SHEET L-220 STANDARD.
SEE SHEET L-220 FOR DETAILS AND ADDITIONAL NOTES. SEE BOOK FORM SPECIFICATIONS FOR ADDITIONAL INFORMATION					

SHRUB LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-1	FORTNIGHT LILY DIETES IRIDOIDES	LOW	5 GAL	451	SEE DETAIL LS-6, SHEET L-220.
S-2 *	FESTUCA 'SISKIYOU BLUE' SISKIYOU BLUE FESCUE	LOW	1 GAL	605	SEE DETAIL LS-6, SHEET L-220.
S-3 •	RHAPHIOLEPIS UMBELLATA 'MINOR' DWARF YEDDA HAWTHORN	LOW	5 GAL	130	SEE DETAIL LS-6, SHEET L-220.
S-4	MAHONIA AQUIFOLIUM 'COMPACTA' COMPACT OREGON GRAPE	LOW	5 GAL	514	SEE DETAIL LS-6, SHEET L-220.
S-5	SALVIA GREGII 'RED' RED FLOWERING AUTUMN SAGE	LOW	5 GAL	472	SEE DETAIL LS-6, SHEET L-220.
S-6 •	ROSA X 'NOARE' FLOWER CARPET RED GROUNDCOVER ROSE	MED	5 GAL	449	SEE DETAIL LS-6, SHEET L-220.
S-7	TEUCRIUM CHAMAEDRYIS 'PROSTRATUM' COMPACT CREEPING GERMANDER	LOW	1 GAL	1311	SEE DETAIL LS-6, SHEET L-220.
S-8 •	BACCHARIS PILULARIS 'TWIN PEAKS' DWARF COYOTE BRUSH	LOW	1 GAL	180	SEE DETAIL LS-6, SHEET L-220.
S-9 •	BERBERIS THUNBERGII 'CRIMSON PYGMY' (ATROPURPUREA NANA) CRIMSON PYGMY DWARF JAPANESE BARBERRY	LOW	1 GAL	144	SEE DETAIL LS-6, SHEET L-220.
S-10	CISTUS X PULVERULENTUS 'SUNSET' MAGENTA ROCKROSE	LOW	1 GAL	64	SEE DETAIL LS-6, SHEET L-220.

SHRUB LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-11 •	SALVIA X 'BEE'S BLISS' BEE'S BLISS SAGE	LOW	1 GAL	54	SEE DETAIL LS-6, SHEET L-220.
S-12 •	NANDINA DOMESTICA 'GULF STREAM' GULF STREAM HEAVENLY BAMBOO	LOW	1 GAL	211	SEE DETAIL LS-6, SHEET L-220.
S-13 •	ABELIA X GRANDIFLORA 'ABELOPS' SUNSHINE DAYDREAM ABELIA	LOW	1 GAL	69	SEE DETAIL LS-6, SHEET L-220.
S-14 *	TULBAGHIA VIOLACEA SOCIETY GARLIC	LOW	1 GAL	684	SEE DETAIL LS-6, SHEET L-220.
S-15 •	ACHILLEA X 'MOONSHINE' MOONSHINE YARROW	LOW	1 GAL	816	SEE DETAIL LS-6, SHEET L-220.
S-16 •	ARCTOSTAPHYLOS UVA URSI 'WOOD'S COMPACT' WOOD'S COMPACT KINNICK KINNICK	MED	1 GAL	349	SEE DETAIL LS-6, SHEET L-220.
BULBS					
B-1	NARCISSUS DAFFODIL	VERY LOW	BULBS	1,632 SF	PLANT * 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED.
B-2	AMARYLLIS MARCH LILY	VERY LOW	BULBS	287 SF	PLANT * 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED.
SYMBOL					
88	PLANT QUANTITY				
S-88	PLANT TYPE				

Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB					
Checked:	JBB	Date:	12-6-2023			

CITY OF CHICO
PUBLIC WORKS DEPARTMENT



BRUCE ROAD RECONSTRUCTION
LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 55+16.84 TO 61+00

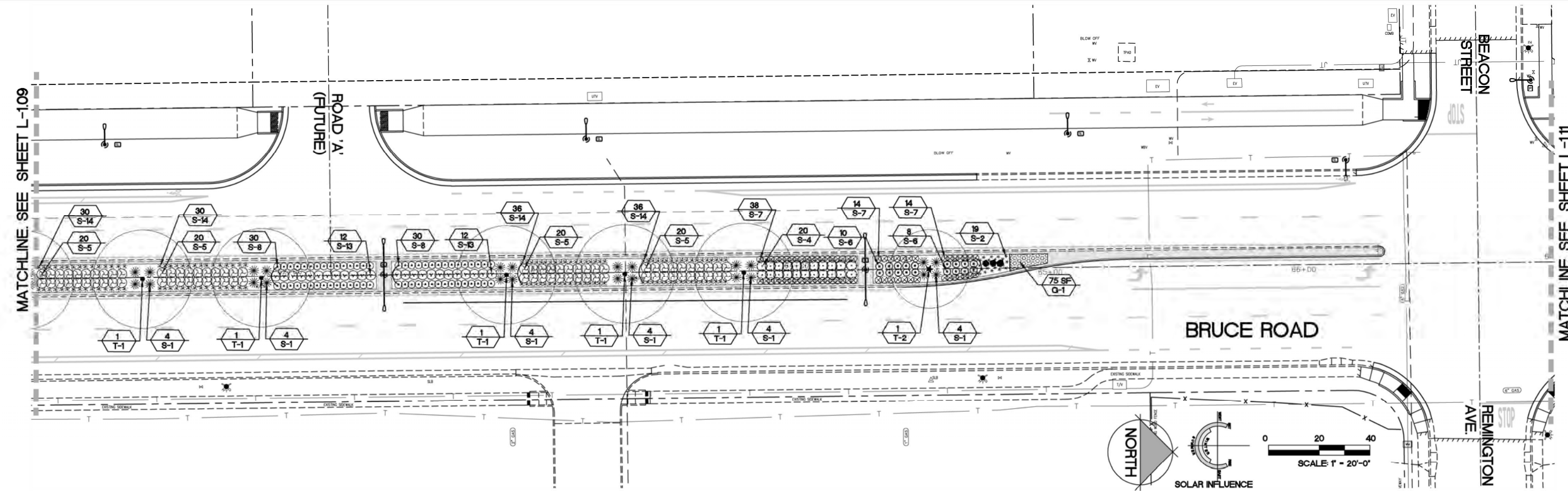
BISHO FIRTH LANDSCAPE ARCHITECTS, INC.
427 BROADWAY, SUITE 220, CHICO, CALIFORNIA 95928
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Project Number:	16038	Drawing Number:	L-209
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 143 of 182

BFLA Project Number: 2414

MATCHLINE. SEE SHEET L-109



TREE LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
TREES					
T-1 •	QUERCUS LOBATA VALLEY OAK	LOW	15 GAL	74	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-2 ★	NYSSA SYLVATICA SOUR GUM/ BLACK TUPELO	LOW	15 GAL	19	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-3	PISTACHIA CHINENSIS 'KEITH DAVIES' KEITH DAVIES CHINESE PISTACHE	LOW	15 GAL	5	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-4 +	QUERCUS WISLIZENI INTERIOR LIVE OAK	LOW	15 GAL	35	SEE DETAIL LS-4 SHEET L-220 STANDARD.
SEE SHEET L-220 FOR DETAILS AND ADDITIONAL NOTES. SEE BOOK FORM SPECIFICATIONS FOR ADDITIONAL INFORMATION					

SHRUB LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-1	FORTNIGHT LILY DIETES IRIDOIDES	LOW	5 GAL	451	SEE DETAIL LS-6, SHEET L-220.
S-2 *	FESTUCA 'SISKIYOU BLUE' SISKIYOU BLUE FESCUE	LOW	1 GAL	605	SEE DETAIL LS-6, SHEET L-220.
S-3 •	RHAPHIOLEPIS UMBELLATA 'MINOR' DWARF YEDDA HAWTHORN	LOW	5 GAL	130	SEE DETAIL LS-6, SHEET L-220.
S-4 •	MAHONIA AQUIFOLIUM 'COMPACTA' COMPACT OREGON GRAPE	LOW	5 GAL	514	SEE DETAIL LS-6, SHEET L-220.
S-5	SALVIA GREGII 'RED' RED FLOWERING AUTUMN SAGE	LOW	5 GAL	472	SEE DETAIL LS-6, SHEET L-220.
S-6 •	ROSA X 'NOARE' FLOWER CARPET RED GROUNDCOVER ROSE	MED	5 GAL	449	SEE DETAIL LS-6, SHEET L-220.
S-7 ⊗	TEUCRIUM CHAMAEDRYIS 'PROSTRATUM' COMPACT CREEPING GERMANDER	LOW	1 GAL	1,311	SEE DETAIL LS-6, SHEET L-220.
S-8 •	BACCHARIS PILULARIS 'TWIN PEAKS' DWARF COYOTE BRUSH	LOW	1 GAL	180	SEE DETAIL LS-6, SHEET L-220.
S-9 •	BERBERIS THUNBERGII 'CRIMSON PYGMY' (ATROPURPUREA NANA) CRIMSON PYGMY DWARF JAPANESE BARBERRY	LOW	1 GAL	144	SEE DETAIL LS-6, SHEET L-220.
S-10	CISTUS X PULVERULENTUS 'SUNSET' MAGENTA ROCKROSE	LOW	1 GAL	64	SEE DETAIL LS-6, SHEET L-220.

SHRUB LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-11 •	SALVIA X 'BEE'S BLISS' BEE'S BLISS SAGE	LOW	1 GAL	54	SEE DETAIL LS-6, SHEET L-220.
S-12 •	NANDINA DOMESTICA 'GULF STREAM' GULF STREAM HEAVENLY BAMBOO	LOW	1 GAL	211	SEE DETAIL LS-6, SHEET L-220.
S-13 •	ABELIA X GRANDIFLORA 'ABELOPS' SUNSHINE DAYDREAM ABELIA	LOW	1 GAL	69	SEE DETAIL LS-6, SHEET L-220.
S-14 *	TULBAGHIA VIOLACEA SOCIETY GARLIC	LOW	1 GAL	684	SEE DETAIL LS-6, SHEET L-220.
S-15 •	ACHILLEA X 'MOONSHINE' MOONSHINE YARROW	LOW	1 GAL	816	SEE DETAIL LS-6, SHEET L-220.
S-16 •	ARCTOSTAPHYLOS UVA URSI 'WOOD'S COMPACT' WOOD'S COMPACT KINNICK KINNICK	MED	1 GAL	349	SEE DETAIL LS-6, SHEET L-220.
BULBS					
B-1	NARCISSUS DAFFODIL	VERY LOW	BULBS	1,632 SF	PLANT * 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED.
B-2	AMARYLLIS MARCH LILY	VERY LOW	BULBS	287 SF	PLANT * 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED.
SYMBOL					
88	PLANT QUANTITY				
S-88	PLANT TYPE				

Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB	Date:	12-6-2023			
Checked:	JBB					

CITY OF CHICO
PUBLIC WORKS DEPARTMENT



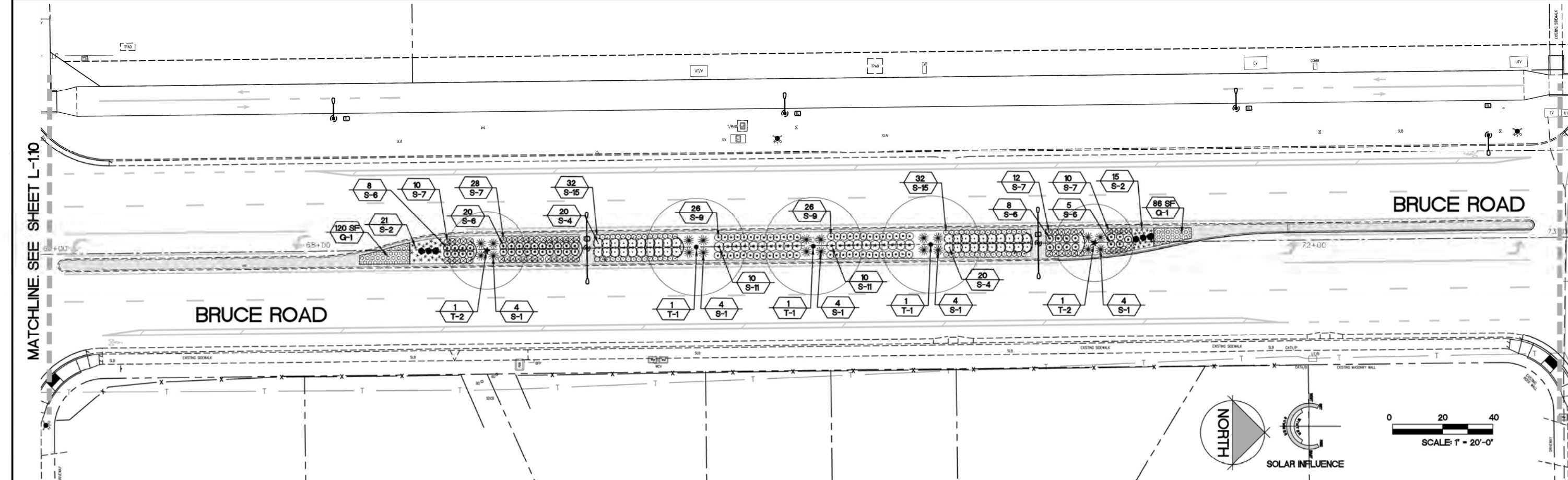
BRUCE ROAD RECONSTRUCTION
LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 61+00 TO 67+00

BISHO FIRTH LANDSCAPE ARCHITECTS, INC.
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Project Number:	16038	Drawing Number:	L-210
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 144 of 182

BFLA Project Number: 2414



TREE LIST

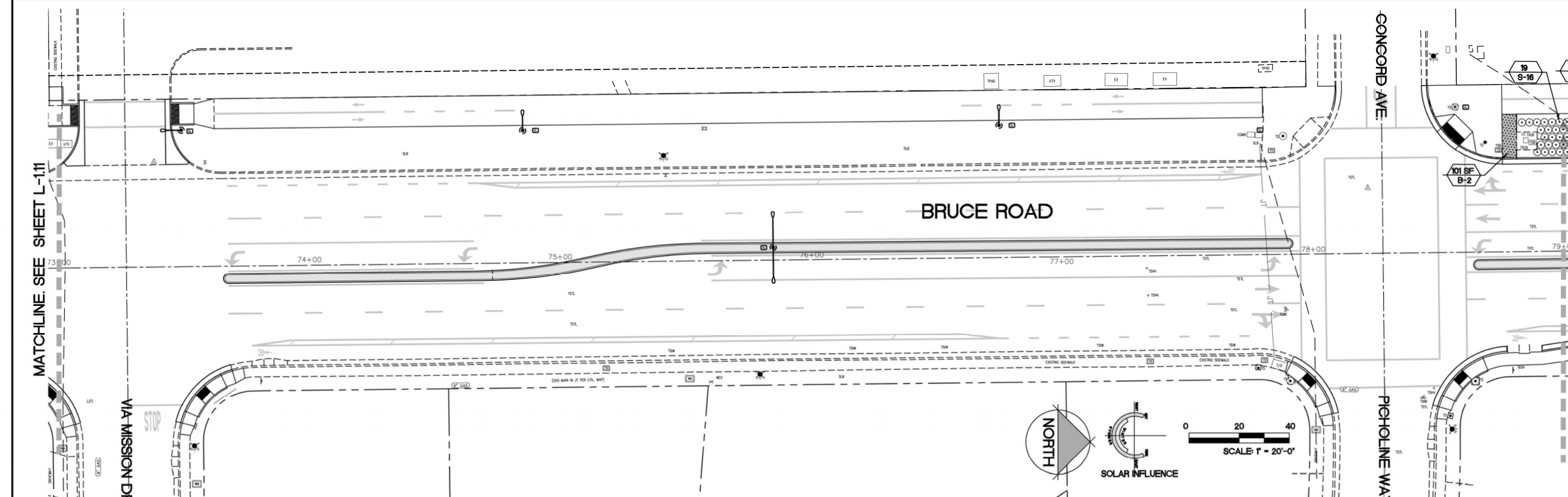
SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
TREES					
T-1 •	QUERCUS LOBATA VALLEY OAK	LOW	15 GAL	74	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-2 ★	NYSSA SYLVATICA SOUR GUM/ BLACK TUPELO	LOW	15 GAL	19	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-3	PISTACHIA CHINENSIS 'KEITH DAVIES' KEITH DAVIES CHINESE PISTACHE	LOW	15 GAL	5	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-4 +	QUERCUS WISLIZENI INTERIOR LIVE OAK	LOW	15 GAL	35	SEE DETAIL LS-4 SHEET L-220 STANDARD.
SEE SHEET L-220 FOR DETAILS AND ADDITIONAL NOTES. SEE BOOK FORM SPECIFICATIONS FOR ADDITIONAL INFORMATION					

SHRUB LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-1	FORTNIGHT LILY DIETES IRIDOIDES	LOW	5 GAL	451	SEE DETAIL LS-6, SHEET L-220.
S-2 *	FESTUCA 'SISKIYOU BLUE' SISKIYOU BLUE FESCUE	LOW	1 GAL	605	SEE DETAIL LS-6, SHEET L-220.
S-3 •	RHAPHIOLEPIS UMBELLATA 'MINOR' DWARF YEDDA HAWTHORN	LOW	5 GAL	130	SEE DETAIL LS-6, SHEET L-220.
S-4 •	MAHONIA AQUIFOLIUM 'COMPACTA' COMPACT OREGON GRAPE	LOW	5 GAL	514	SEE DETAIL LS-6, SHEET L-220.
S-5	SALVIA GREGII 'RED' RED FLOWERING AUTUMN SAGE	LOW	5 GAL	472	SEE DETAIL LS-6, SHEET L-220.
S-6 •	ROSA X 'NOARE' FLOWER CARPET RED GROUNDCOVER ROSE	MED	5 GAL	449	SEE DETAIL LS-6, SHEET L-220.
S-7	TEUCRIUM CHAMAEDRYIS 'PROSTRATUM' COMPACT CREEPING GERMANDER	LOW	1 GAL	1311	SEE DETAIL LS-6, SHEET L-220.
S-8 •	BACCHARIS PILULARIS 'TWIN PEAKS' DWARF COYOTE BRUSH	LOW	1 GAL	180	SEE DETAIL LS-6, SHEET L-220.
S-9 •	BERBERIS THUNBERGII 'CRIMSON PYGMY' (ATROPURPUREA NANA) CRIMSON PYGMY DWARF JAPANESE BARBERRY	LOW	1 GAL	144	SEE DETAIL LS-6, SHEET L-220.
S-10	CISTUS X PULVERULENTUS 'SUNSET' MAGENTA ROCKROSE	LOW	1 GAL	64	SEE DETAIL LS-6, SHEET L-220.

SHRUB LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-11 •	SALVIA X 'BEE'S BLISS' BEE'S BLISS SAGE	LOW	1 GAL	54	SEE DETAIL LS-6, SHEET L-220.
S-12	NANDINA DOMESTICA 'GULF STREAM' GULF STREAM HEAVENLY BAMBOO	LOW	1 GAL	211	SEE DETAIL LS-6, SHEET L-220.
S-13 •	ABELIA X GRANDIFLORA 'ABELOPS' SUNSHINE DAYDREAM ABELIA	LOW	1 GAL	69	SEE DETAIL LS-6, SHEET L-220.
S-14 *	TULBAGHIA VIOLACEA SOCIETY GARLIC	LOW	1 GAL	684	SEE DETAIL LS-6, SHEET L-220.
S-15 •	ACHILLEA X 'MOONSHINE' MOONSHINE YARROW	LOW	1 GAL	816	SEE DETAIL LS-6, SHEET L-220.
S-16 •	ARCTOSTAPHYLOS UVA URSI 'WOOD'S COMPACT' WOOD'S COMPACT KINNICK KINNICK	MED	1 GAL	349	SEE DETAIL LS-6, SHEET L-220.
BULBS					
B-1	NARCISSUS DAFFODIL	VERY LOW	BULBS	1,632 SF	PLANT • 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED.
B-2	AMARYLLIS MARCH LILY	VERY LOW	BULBS	287 SF	PLANT • 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED.
SYMBOL					
88	PLANT QUANTITY				
S-88	PLANT TYPE				



TREE LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
TREES					
T-1 •	QUERCUS LOBATA VALLEY OAK	LOW	15 GAL	74	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-2 *	NYSSA SYLVATICA SOUR GUM/ BLACK TUPELO	LOW	15 GAL	19	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-3	PISTACHIA CHINENSIS 'KEITH DAVIES' KEITH DAVIES CHINESE PISTACHE	LOW	15 GAL	5	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-4 +	QUERCUS WISLIZENI INTERIOR LIVE OAK	LOW	15 GAL	35	SEE DETAIL LS-4 SHEET L-220 STANDARD.
SEE SHEET L-2.20 FOR DETAILS AND ADDITIONAL NOTES. SEE BOOK FORM SPECIFICATIONS FOR ADDITIONAL INFORMATION					

SHRUB LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-1	FORTNIGHT LILY DIETES IRIDOIDES	LOW	5 GAL	451	SEE DETAIL LS-6, SHEET L-220.
S-2 *	FESTUCA 'SISKIYOU BLUE' SISKIYOU BLUE FESCUE	LOW	1 GAL	605	SEE DETAIL LS-6, SHEET L-220.
S-3 •	RHAPHIOLEPIS UMBELLATA 'MINOR' DWARF YEDDA HAWTHORN	LOW	5 GAL	130	SEE DETAIL LS-6, SHEET L-220.
S-4 •	MAHONIA AQUIFOLIUM 'COMPACTA' COMPACT OREGON GRAPE	LOW	5 GAL	514	SEE DETAIL LS-6, SHEET L-220.
S-5	SALVIA GREGII 'RED' RED FLOWERING AUTUMN SAGE	LOW	5 GAL	472	SEE DETAIL LS-6, SHEET L-220.
S-6 •	ROSA X 'NOARE' FLOWER CARPET RED GROUNDCOVER ROSE	MED	5 GAL	449	SEE DETAIL LS-6, SHEET L-220.
S-7	TEUCRIUM CHAMAEDRYS 'PROSTRATUM' COMPACT CREEPING GERMANDER	LOW	1 GAL	1311	SEE DETAIL LS-6, SHEET L-220.
S-8 •	BACCHARIS PILULARIS 'TWIN PEAKS' DWARF COYOTE BRUSH	LOW	1 GAL	180	SEE DETAIL LS-6, SHEET L-220.
S-9 •	BERBERIS THUNBERGII 'CRIMSON PYGMY' (ATROPURPUREA NANA) CRIMSON PYGMY DWARF JAPANESE BARBERRY	LOW	1 GAL	144	SEE DETAIL LS-6, SHEET L-220.
S-10	CISTUS X PULVERULENTUS 'SUNSET' MAGENTA ROCKROSE	LOW	1 GAL	64	SEE DETAIL LS-6, SHEET L-220.

SHRUB LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-11 •	SALVIA X 'BEE'S BLISS' BEE'S BLISS SAGE	LOW	1 GAL	54	SEE DETAIL LS-6, SHEET L-220.
S-12	NANDINA DOMESTICA 'GULF STREAM' GULF STREAM HEAVENLY BAMBOO	LOW	1 GAL	211	SEE DETAIL LS-6, SHEET L-220.
S-13 •	ABELIA X GRANDIFLORA 'ABELOPS' SUNSHINE DAYDREAM ABELIA	LOW	1 GAL	69	SEE DETAIL LS-6, SHEET L-220.
S-14 *	TULBAGHIA VIOLACEA SOCIETY GARLIC	LOW	1 GAL	684	SEE DETAIL LS-6, SHEET L-220.
S-15 •	ACHILLEA X 'MOONSHINE' MOONSHINE YARROW	LOW	1 GAL	816	SEE DETAIL LS-6, SHEET L-220.
S-16 •	ARCTOSTAPHYLOS UVA URSI 'WOOD'S COMPACT' WOOD'S COMPACT KINNICK KINNICK	MED	1 GAL	349	SEE DETAIL LS-6, SHEET L-220.
BULBS					
B-1	NARCISSUS DAFFODIL	VERY LOW	BULBS	1,632 SF	PLANT * 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED.
B-2	AMARYLLIS MARCH LILY	VERY LOW	BULBS	287 SF	PLANT * 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED.
SYMBOL					
88	PLANT QUANTITY				
S-88	PLANT TYPE				

Plan Status: ☐ Conceptual, ☐ Approved Final, ☐ Record

Designed: JBB
Drawn By: JBB/ TDB
Checked: JBB

Approved:
Date: 12-6-2023

Revision
Date
By

CITY OF CHICO
PUBLIC WORKS DEPARTMENT

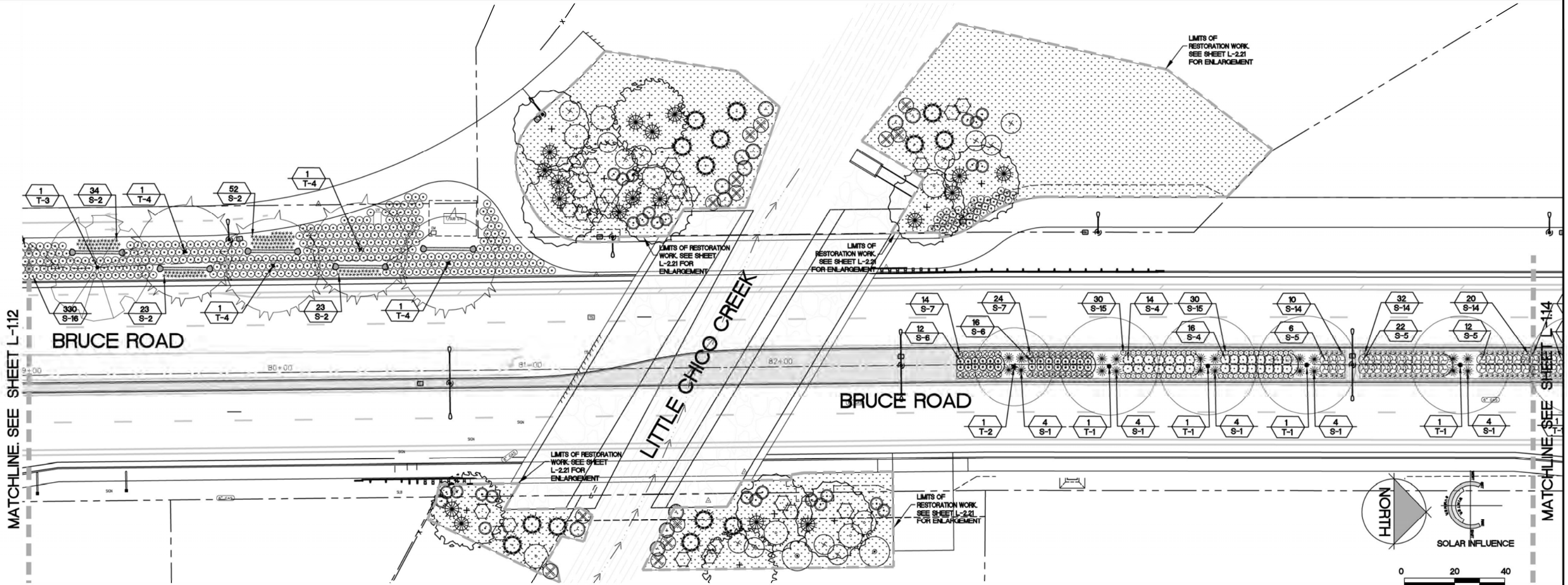
BIRCH FIRTH LANDSCAPE ARCHITECTS, INC.
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Project Number:
16038

Scale:
PER PLAN
Horizontal

Drawing Number:
L-212

Sheet
146 of 182



TREE LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
TREES					
T-1 •	QUERCUS LOBATA VALLEY OAK	LOW	15 GAL.	74	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-2 *	NYSSA SYLVATICA SOUR GUM/ BLACK TUPELO	LOW	15 GAL.	19	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-3	PISTACHIA CHINENSIS 'KEITH DAVIES' KEITH DAVIES CHINESE PISTACHE	LOW	15 GAL.	5	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-4 •	QUERCUS WISLIZENI INTERIOR LIVE OAK	LOW	15 GAL.	35	SEE DETAIL LS-4 SHEET L-220 STANDARD.
SEE SHEET L-220 FOR DETAILS AND ADDITIONAL NOTES. SEE BOOK FORM SPECIFICATION FOR ADDITIONAL INFORMATION					

SHRUB LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-1	FORTNIGHT LILY DIETES FRIDOIDES	LOW	5 GAL.	451	SEE DETAIL LS-6, SHEET L-220.
S-2 *	FESTUCA 'SISKIYOU BLUE' SISKIYOU BLUE FESCUE	LOW	1 GAL.	605	SEE DETAIL LS-6, SHEET L-220.
S-3 •	RHAPHIOLEPS UMBELLATA 'MINOR' DWARF YEDDA HAWTHORN	LOW	5 GAL.	130	SEE DETAIL LS-6, SHEET L-220.
S-4 •	MAHONIA AQUIFOLIUM 'COMPACTA' COMPACT OREGON GRAPE	LOW	5 GAL.	514	SEE DETAIL LS-6, SHEET L-220.
S-5	SALVIA GREGII 'RED' RED FLOWERING AUTUMN SAGE	LOW	5 GAL.	472	SEE DETAIL LS-6, SHEET L-220.
S-6 •	ROSA X 'NOARE' FLOWER CARPET RED GROUNDCOVER ROSE	MED	5 GAL.	449	SEE DETAIL LS-6, SHEET L-220.
S-7	TEUCRIUM CHAMAEDRYS 'PROSTRATUM' COMPACT CREEPING GERMANDER	LOW	1 GAL.	1311	SEE DETAIL LS-6, SHEET L-220.
S-8 •	BACCHARIS PILULARIS 'TWIN PEAKS' DWARF COYOTE BRUSH	LOW	1 GAL.	180	SEE DETAIL LS-6, SHEET L-220.
S-9 •	BERBERIS THUNBERGII 'CRIMSON PYGMY' (ATROPURPUREA NANA) CRIMSON PYGMY DWARF JAPANESE BARBERRY	LOW	1 GAL.	144	SEE DETAIL LS-6, SHEET L-220.
S-10	CISTUS X PULVERULENTUS 'SUNSET' MAGENTA ROCKROSE	LOW	1 GAL.	64	SEE DETAIL LS-6, SHEET L-220.

SHRUB LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-11 •	SALVIA X 'BEE'S BLISS' BEE'S BLISS SAGE	LOW	1 GAL.	54	SEE DETAIL LS-6, SHEET L-220.
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S-13 •	ABELIA X GRANDIFLORA 'ABELOPS' SUNSHINE DAYDREAM ABELIA	LOW	1 GAL.	69	SEE DETAIL LS-6, SHEET L-220.
S-14 *	TULBAGHIA VIOLACEA SOCIETY GARLIC	LOW	1 GAL.	684	SEE DETAIL LS-6, SHEET L-220.
S-15 •	ACHILLEA X 'MOONSHINE' MOONSHINE YARROW	LOW	1 GAL.	816	SEE DETAIL LS-6, SHEET L-220.
S-16 •	ARCTOSTAPHYLOS UVA URSI 'WOOD'S COMPACT' WOOD'S COMPACT KINNICK KINNICK	MED	1 GAL.	349	SEE DETAIL LS-6, SHEET L-220.
BULBS					
B-1	NARCISSUS DAFFODIL	VERY LOW	BULBS	1,632 SF	PLANT • 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED.
B-2	AMARYLLIS MARCH LILY	VERY LOW	BULBS	287 SF	PLANT • 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED.
SYMBOL					
88	PLANT QUANTITY				
S-88	PLANT TYPE				

BISHO FIRTH LANDSCAPE ARCHITECTS, INC.
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Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB					
Checked:	JBB	Date:	12-6-2023			

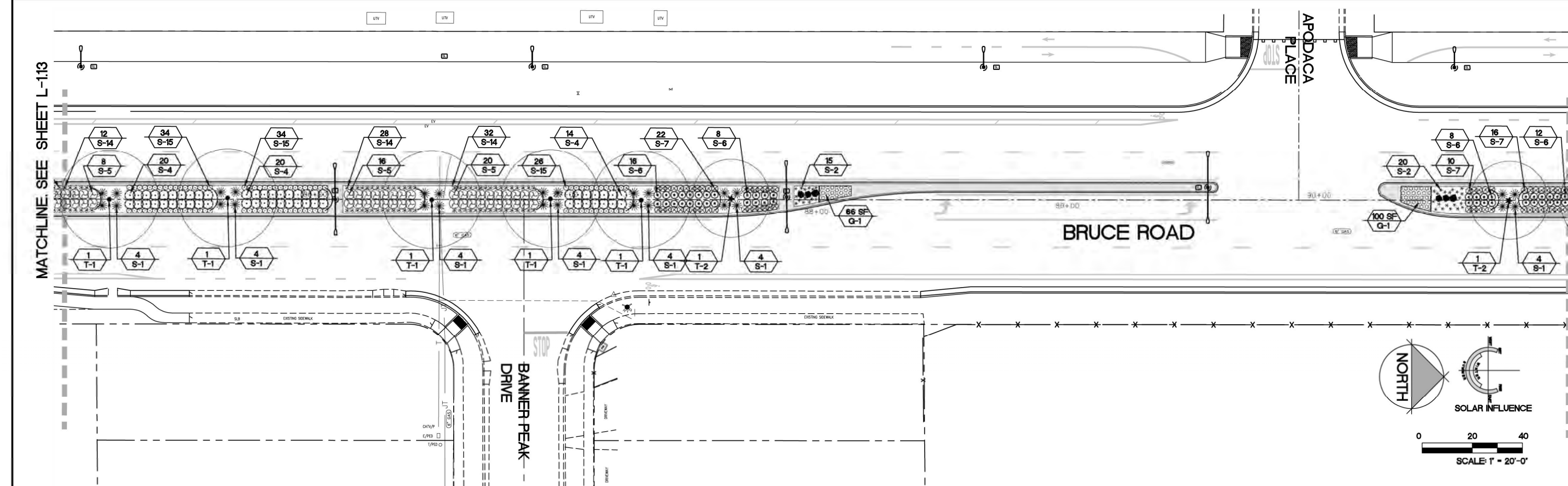
CITY OF CHICO
PUBLIC WORKS DEPARTMENT



BRUCE ROAD RECONSTRUCTION
LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 79+00 TO 85+00

Project Number:	16038	Drawing Number:	L-213
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 147 of 182

BFLA Project Number: 2414



Tree List

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
TREES					
T-1 •	QUERCUS LOBATA VALLEY OAK	LOW	15 GAL	74	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-2 ★	NYSSA SYLVATICA SOUR GUM/ BLACK TUPELO	LOW	15 GAL	19	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-3	PISTACHIA CHINENSIS 'KEITH DAVIES' KEITH DAVIES CHINESE PISTACHE	LOW	15 GAL	5	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-4 +	QUERCUS WISLIZENI INTERIOR LIVE OAK	LOW	15 GAL	35	SEE DETAIL LS-4 SHEET L-220 STANDARD.
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Shrub List

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-1	FORTNIGHT LILY DIETES IRIDOIDES	LOW	5 GAL	451	SEE DETAIL LS-6, SHEET L-220.
S-2 *	FESTUCA 'SISKIYOU BLUE' SISKIYOU BLUE FESCUE	LOW	1 GAL	605	SEE DETAIL LS-6, SHEET L-220.
S-3	RHAPHIOLEPIS UMBELLATA 'MINOR' DWARF YEDDA HAWTHORN	LOW	5 GAL	130	SEE DETAIL LS-6, SHEET L-220.
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S-5	SALVIA GREGII 'RED' RED FLOWERING AUTUMN SAGE	LOW	5 GAL	472	SEE DETAIL LS-6, SHEET L-220.
S-6	ROSA X 'NOARE' FLOWER CARPET RED GROUNDCOVER ROSE	MED	5 GAL	449	SEE DETAIL LS-6, SHEET L-220.
S-7	TEUCRIUM CHAMAEDRYIS 'PROSTRATUM' COMPACT CREEPING GERMANDER	LOW	1 GAL	1,311	SEE DETAIL LS-6, SHEET L-220.
S-8	BACCHARIS PILULARIS 'TWIN PEAKS' DWARF COYOTE BRUSH	LOW	1 GAL	180	SEE DETAIL LS-6, SHEET L-220.
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Shrub List

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-11	SALVIA X 'BEE'S BLISS' BEE'S BLISS SAGE	LOW	1 GAL	54	SEE DETAIL LS-6, SHEET L-220.
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S-13	ABELIA X GRANDIFLORA 'ABELOPS' SUNSHINE DAYDREAM ABELIA	LOW	1 GAL	69	SEE DETAIL LS-6, SHEET L-220.
S-14	TULBAGHIA VIOLACEA SOCIETY GARLIC	LOW	1 GAL	684	SEE DETAIL LS-6, SHEET L-220.
S-15	ACHILLEA X 'MOONSHINE' MOONSHINE YARROW	LOW	1 GAL	816	SEE DETAIL LS-6, SHEET L-220.
S-16	ARCTOSTAPHYLOS UVA URSI 'WOOD'S COMPACT' WOOD'S COMPACT KINNICK KINNICK	MED	1 GAL	349	SEE DETAIL LS-6, SHEET L-220.
BULBS					
B-1	NARCISSUS DAFFODIL	VERY LOW	BULBS	1,632 SF	PLANT * 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED.
B-2	AMARYLLIS MARCH LILY	VERY LOW	BULBS	287 SF	PLANT * 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED.
SYMBOL					
88	PLANT QUANTITY				
S-88	PLANT TYPE				

Plan Status: ☒ Conceptual, ☐ Approved Final, ☐ Record

Designed: JBB	Approved:	Revision	Date	By
Drawn By: JBB/ TDB	Date: 12-6-2023			
Checked: JBB				

CITY OF CHICO
PUBLIC WORKS DEPARTMENT



BRUCE ROAD RECONSTRUCTION
LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 85+00 TO 91+00

BISHO FIRTH LANDSCAPE ARCHITECTS, INC.
427 BROADWAY, SUITE 220, CHICO, CALIFORNIA 95928
PHONE: (530) 899-1130
www.BFLAdesign.com www.facebook.com/BFLAdesign



Project Number: 16038	Drawing Number: L-214
Scale: PER PLAN Horizontal	PER PLAN Vertical
Sheet 148 of 182	

Plan Status: ☐ Conceptual, ☐ Approved Final, ☐ Record

Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB					
Checked:	JBB	Date:	12-6-2023			

CITY OF CHICO
PUBLIC WORKS DEPARTMENT



BRUCE ROAD RECONSTRUCTION
LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 91+00 TO 97+00

Project Number:	16038	Drawing Number:	L-215
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 149 of 182

BISHO FIRTH LANDSCAPE ARCHITECTS, INC.
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www.BFLAdesign.com www.facebook.com/BFLAdesign



BFLA Project Number: 2414

TREE LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
TREES					
T-1 •	QUERCUS LOBATA VALLEY OAK	LOW	15 GAL	74	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-2 ★	NYSSA SYLVATICA SOUR GUM/ BLACK TUPELO	LOW	15 GAL	19	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-3	PISTACHIA CHINENSIS 'KEITH DAVIES' KEITH DAVIES CHINESE PISTACHE	LOW	15 GAL	5	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-4 +	QUERCUS WISLIZENI INTERIOR LIVE OAK	LOW	15 GAL	35	SEE DETAIL LS-4 SHEET L-220 STANDARD.
SEE SHEET L-2.20 FOR DETAILS AND ADDITIONAL NOTES. SEE BOOK FORM SPECIFICATIONS FOR ADDITIONAL INFORMATION					

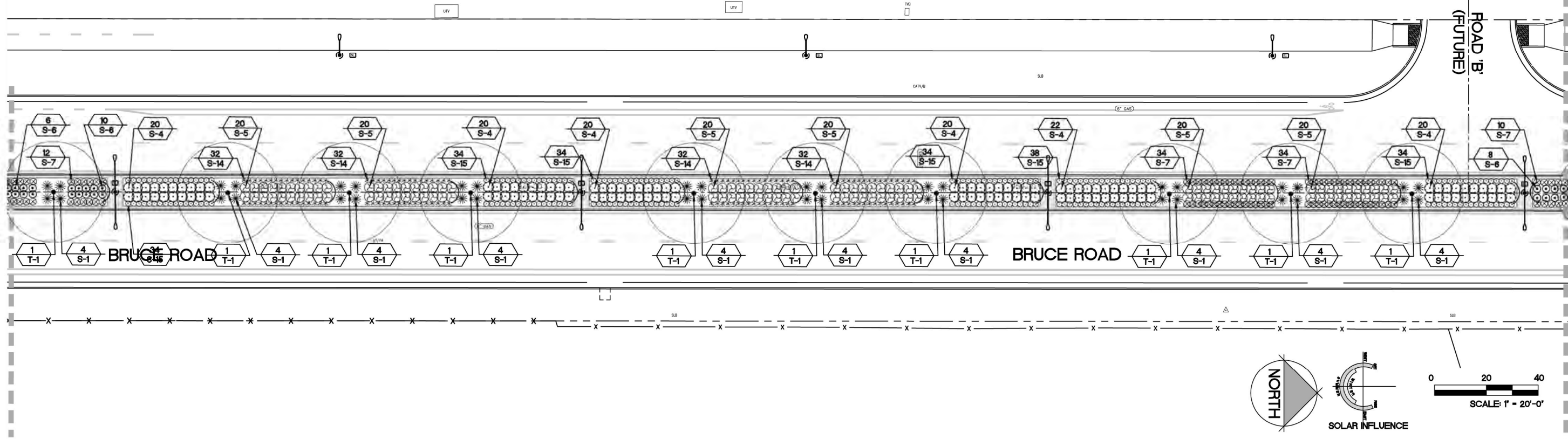
SHRUB LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-1	FORTNIGHT LILY DIETES IRIDOIDES	LOW	5 GAL	451	SEE DETAIL LS-6, SHEET L-220.
S-2 *	FESTUCA 'SISKIYOU BLUE' SISKIYOU BLUE FESCUE	LOW	1 GAL	605	SEE DETAIL LS-6, SHEET L-220.
S-3	RHAPHIOLEPS UMBELLATA 'MINOR' DWARF YEDDA HAWTHORN	LOW	5 GAL	130	SEE DETAIL LS-6, SHEET L-220.
S-4	MAHONIA AQUIFOLIUM 'COMPACTA' COMPACT OREGON GRAPE	LOW	5 GAL	514	SEE DETAIL LS-6, SHEET L-220.
S-5	SALVIA GREGII 'RED' RED FLOWERING AUTUMN SAGE	LOW	5 GAL	472	SEE DETAIL LS-6, SHEET L-220.
S-6	ROSA X 'NOARE' FLOWER CARPET RED GROUNDCOVER ROSE	MED	5 GAL	449	SEE DETAIL LS-6, SHEET L-220.
S-7	TEUCRIUM CHAMAEDRYIS 'PROSTRATUM' COMPACT CREEPING GERMANDER	LOW	1 GAL	1311	SEE DETAIL LS-6, SHEET L-220.
S-8	BACCHARIS PILULARIS 'TWIN PEAKS' DWARF COYOTE BRUSH	LOW	1 GAL	180	SEE DETAIL LS-6, SHEET L-220.
S-9	BERBERIS THUNBERGII 'CRIMSON PYGMY' (ATROPURPUREA NANA) CRIMSON PYGMY DWARF JAPANESE BARBERRY	LOW	1 GAL	144	SEE DETAIL LS-6, SHEET L-220.
S-10	CISTUS X PULVERULENTUS 'SUNSET' MAGENTA ROCKROSE	LOW	1 GAL	64	SEE DETAIL LS-6, SHEET L-220.

SHRUB LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-11	SALVIA X 'BEE'S BLISS' BEE'S BLISS SAGE	LOW	1 GAL	54	SEE DETAIL LS-6, SHEET L-220.
S-12	NANDINA DOMESTICA 'GULF STREAM' GULF STREAM HEAVENLY BAMBOO	LOW	1 GAL	211	SEE DETAIL LS-6, SHEET L-220.
S-13	ABELIA X GRANDIFLORA 'ABELOPS' SUNSHINE DAYDREAM ABELIA	LOW	1 GAL	69	SEE DETAIL LS-6, SHEET L-220.
S-14	TULBAGHIA VIOLACEA SOCIETY GARLIC	LOW	1 GAL	684	SEE DETAIL LS-6, SHEET L-220.
S-15	ACHILLEA X 'MOONSHINE' MOONSHINE YARROW	LOW	1 GAL	816	SEE DETAIL LS-6, SHEET L-220.
S-16	ARCTOSTAPHYLOS UVA URSI 'WOOD'S COMPACT' WOOD'S COMPACT KINNICK KINNICK	MED	1 GAL	349	SEE DETAIL LS-6, SHEET L-220.
BULBS					
B-1	NARCISSUS DAFFODIL	VERY LOW	BULBS	1,632 SF	PLANT * 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED.
B-2	AMARYLLIS MARCH LILY	VERY LOW	BULBS	287 SF	PLANT * 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED.
SYMBOL					
88	PLANT QUANTITY				
S-88	PLANT TYPE				

MATCHLINE. SEE SHEET L-114



MATCHLINE. SEE SHEET L-116

Plan Status: ☐ Conceptual, ☐ Approved Final, ☐ Record

Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB	Date:	12-6-2023			
Checked:	JBB					

CITY OF CHICO
PUBLIC WORKS DEPARTMENT



BRUCE ROAD RECONSTRUCTION
LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 97+00 TO 103+00

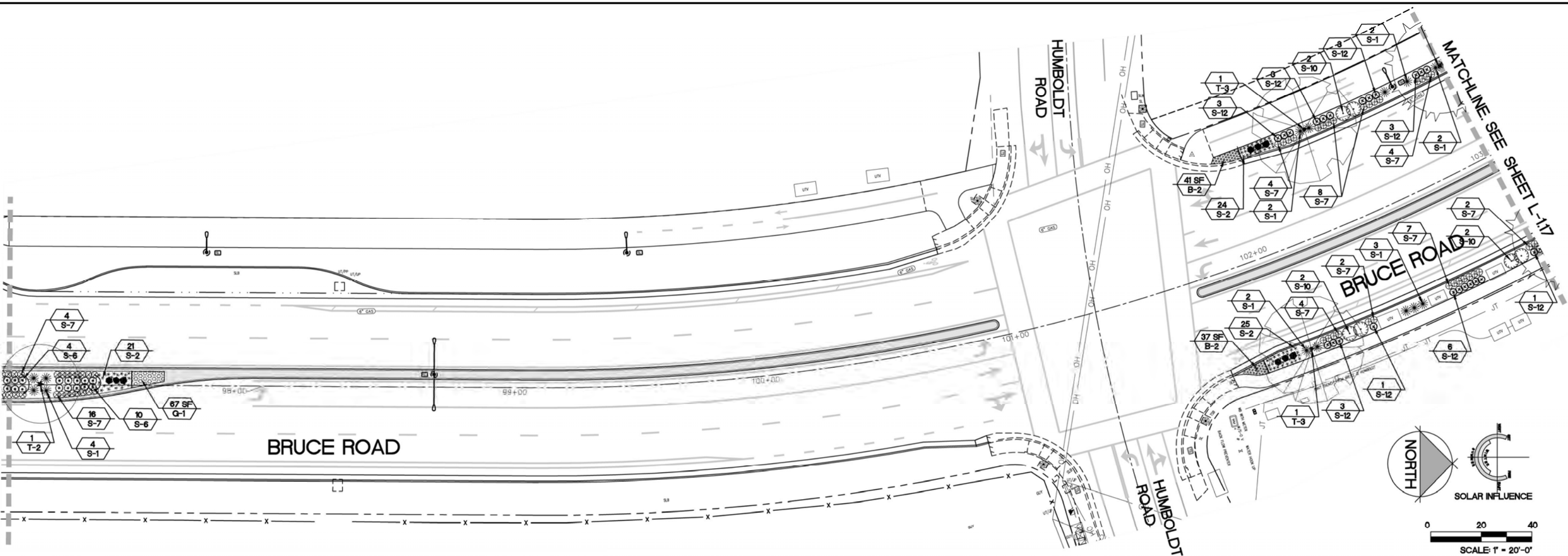
BISHO FIRTH LANDSCAPE ARCHITECTS, INC.
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BFLA Project Number: 2414

Project Number:	16038	Drawing Number:	L-216
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 150 of 182

MATCHLINE. SEE SHEET L-115



TREE LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
TREES					
T-1 •	QUERCUS LOBATA VALLEY OAK	LOW	15 GAL	74	SEE DETAIL LS-4 SHEET L-2.20 STANDARD.
T-2 *	NYSSA SYLVATICA SOUR GUM/ BLACK TUPELO	LOW	15 GAL	19	SEE DETAIL LS-4 SHEET L-2.20 STANDARD.
T-3	PISTACHIA CHINENSIS 'KEITH DAVIES' KEITH DAVIES CHINESE PISTACHE	LOW	15 GAL	5	SEE DETAIL LS-4 SHEET L-2.20 STANDARD.
T-4 •	QUERCUS WISLIZENI INTERIOR LIVE OAK	LOW	15 GAL	35	SEE DETAIL LS-4 SHEET L-2.20 STANDARD.
SEE SHEET L-2.20 FOR DETAILS AND ADDITIONAL NOTES. SEE BOOK FORM SPECIFICATIONS FOR ADDITIONAL INFORMATION					

SHRUB LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-1	FORTNIGHT LILY DIETES IRIDOIDES	LOW	5 GAL	451	SEE DETAIL LS-6, SHEET L-2.20.
S-2 *	FESTUCA 'SISKIYOU BLUE' SISKIYOU BLUE FESCUE	LOW	1 GAL	605	SEE DETAIL LS-6, SHEET L-2.20.
S-3	RHAPHIOLEPIS UMBELLATA 'MINOR' DWARF YEDDA HAWTHORN	LOW	5 GAL	130	SEE DETAIL LS-6, SHEET L-2.20.
S-4	MAHONIA AQUIFOLIUM 'COMPACTA' COMPACT OREGON GRAPE	LOW	5 GAL	514	SEE DETAIL LS-6, SHEET L-2.20.
S-5	SALVIA GREGII 'RED' RED FLOWERING AUTUMN SAGE	LOW	5 GAL	472	SEE DETAIL LS-6, SHEET L-2.20.
S-6	ROSA X 'NOARE' FLOWER CARPET RED GROUNDCOVER ROSE	MED	5 GAL	449	SEE DETAIL LS-6, SHEET L-2.20.
S-7	TEUCRIUM CHAMAEDRYS 'PROSTRATUM' COMPACT CREEPING GERMANDER	LOW	1 GAL	1,311	SEE DETAIL LS-6, SHEET L-2.20.
S-8	BACCHARIS PILULARIS 'TWIN PEAKS' DWARF COYOTE BRUSH	LOW	1 GAL	180	SEE DETAIL LS-6, SHEET L-2.20.
S-9	BERBERIS THUNBERGII 'CRIMSON PYGMY' (ATROPURPUREA NANA) CRIMSON PYGMY DWARF JAPANESE BARBERRY	LOW	1 GAL	144	SEE DETAIL LS-6, SHEET L-2.20.
S-10	CISTUS X PULVERULENTUS 'SUNSET' MAGENTA ROCKROSE	LOW	1 GAL	64	SEE DETAIL LS-6, SHEET L-2.20.

SHRUB LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-11	SALVIA X 'BEE'S BLISS' BEE'S BLISS SAGE	LOW	1 GAL	54	SEE DETAIL LS-6, SHEET L-2.20.
S-12	NANDINA DOMESTICA 'GULF STREAM' GULF STREAM HEAVENLY BAMBOO	LOW	1 GAL	211	SEE DETAIL LS-6, SHEET L-2.20.
S-13	ABELIA X GRANDIFLORA 'ABELOPS' SUNSHINE DAYDREAM ABELIA	LOW	1 GAL	69	SEE DETAIL LS-6, SHEET L-2.20.
S-14	TULBAGHIA VIOLACEA SOCIETY GARLIC	LOW	1 GAL	684	SEE DETAIL LS-6, SHEET L-2.20.
S-15	ACHILLEA X 'MOONSHINE' MOONSHINE YARROW	LOW	1 GAL	816	SEE DETAIL LS-6, SHEET L-2.20.
S-16	ARCTOSTAPHYLOS UVA URSI 'WOOD'S COMPACT' WOOD'S COMPACT KINNICK KINNICK	MED	1 GAL	349	SEE DETAIL LS-6, SHEET L-2.20.
BULBS					
B-1	NARCISSUS DAFFODIL	VERY LOW	BULBS	1,632 SF	PLANT • 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED.
B-2	AMARYLLIS MARCH LILY	VERY LOW	BULBS	287 SF	PLANT • 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED.
SYMBOL					
88	PLANT QUANTITY				
S-88	PLANT TYPE				

Plan Status: ☐ Conceptual, ☐ Approved Final, ☐ Record

Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB	Date:	12-6-2023			
Checked:	JBB					

CITY OF CHICO
PUBLIC WORKS DEPARTMENT



BRUCE ROAD RECONSTRUCTION
LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 103+00 TO 109+00

BISHO FIRTH LANDSCAPE ARCHITECTS, INC.
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BFLA Project Number: 2414

Project Number:	16038	Drawing Number:	L-217
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 151 of 182

TREE LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
TREES					
T-1 •	QUERCUS LOBATA VALLEY OAK	LOW	15 GAL	74	SEE DETAIL LS-4 SHEET L-2.20 STANDARD.
T-2 *	NYSSA SYLVATICA SOUR GUM/ BLACK TUPELO	LOW	15 GAL	19	SEE DETAIL LS-4 SHEET L-2.20 STANDARD.
T-3	PISTACHIA CHINENSIS 'KEITH DAVIES' KEITH DAVIES CHINESE PISTACHE	LOW	15 GAL	5	SEE DETAIL LS-4 SHEET L-2.20 STANDARD.
T-4 +	QUERCUS WISLIZENI INTERIOR LIVE OAK	LOW	15 GAL	35	SEE DETAIL LS-4 SHEET L-2.20 STANDARD.
SEE SHEET L-2.20 FOR DETAILS AND ADDITIONAL NOTES. SEE BOOK FORM SPECIFICATIONS FOR ADDITIONAL INFORMATION					

SHRUB LIST

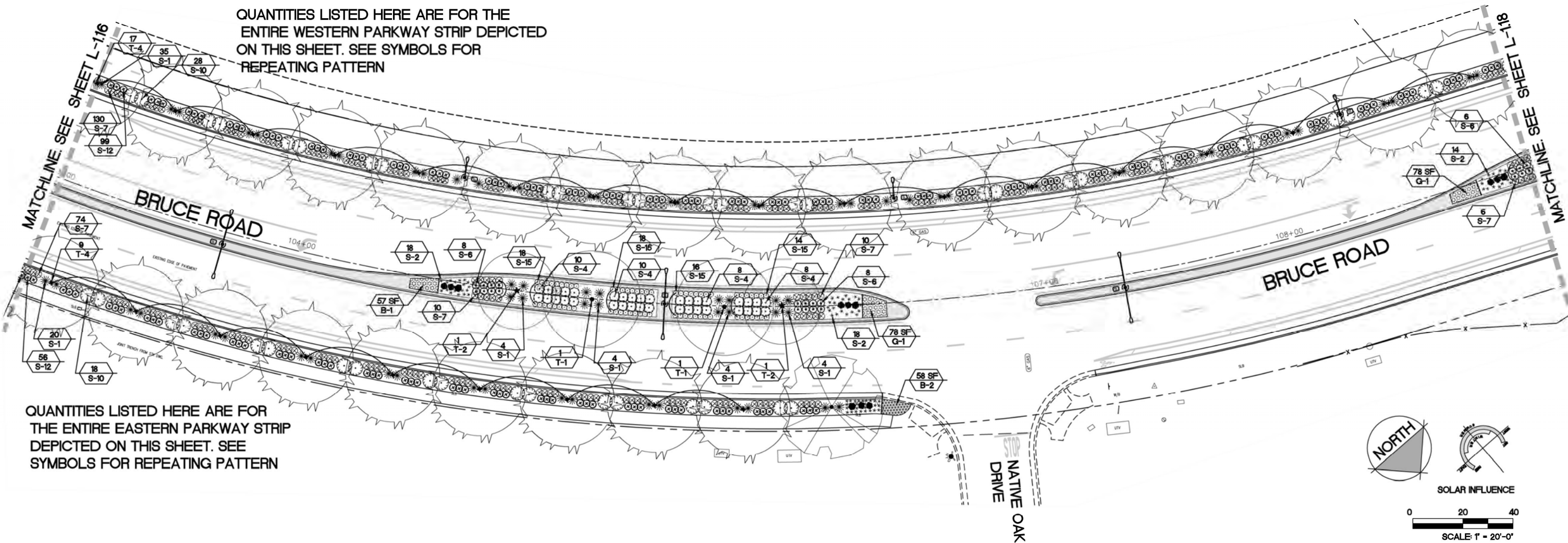
SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-1 ☼	FORTNIGHT LILY DIETES IRIDOIDES	LOW	5 GAL	451	SEE DETAIL LS-6, SHEET L-2.20.
S-2 *	FESTUCA 'SISKIYOU BLUE' SISKIYOU BLUE FESCUE	LOW	1 GAL	605	SEE DETAIL LS-6, SHEET L-2.20.
S-3 ○	RHAPHIOLEPIS UMBELLATA 'MINOR' DWARF YEDDA HAWTHORN	LOW	5 GAL	130	SEE DETAIL LS-6, SHEET L-2.20.
S-4 ☼	MAHONIA AQUIFOLIUM 'COMPACTA' COMPACT OREGON GRAPE	LOW	5 GAL	514	SEE DETAIL LS-6, SHEET L-2.20.
S-5 ☼	SALVIA GREGGII 'RED' RED FLOWERING AUTUMN SAGE	LOW	5 GAL	472	SEE DETAIL LS-6, SHEET L-2.20.
S-6 ☼	ROSA X 'NOARE' FLOWER CARPET RED GROUNDCOVER ROSE	MED	5 GAL	449	SEE DETAIL LS-6, SHEET L-2.20.
S-7 ☼	TEUCRIUM CHAMAEDRYIS 'PROSTRATUM' COMPACT CREEPING GERMANDER	LOW	1 GAL	1,311	SEE DETAIL LS-6, SHEET L-2.20.
S-8 ○	BACCHARIS PILULARIS 'TWIN PEAKS' DWARF COYOTE BRUSH	LOW	1 GAL	180	SEE DETAIL LS-6, SHEET L-2.20.
S-9 ○	BERBERIS THUNBERGII 'CRIMSON PYGMY' (ATROPURPUREA NANA) CRIMSON PYGMY DWARF JAPANESE BARBERRY	LOW	1 GAL	144	SEE DETAIL LS-6, SHEET L-2.20.
S-10 ☼	CISTUS X PULVERULENTUS 'SUNSET' MAGENTA ROCKROSE	LOW	1 GAL	64	SEE DETAIL LS-6, SHEET L-2.20.

SHRUB LIST

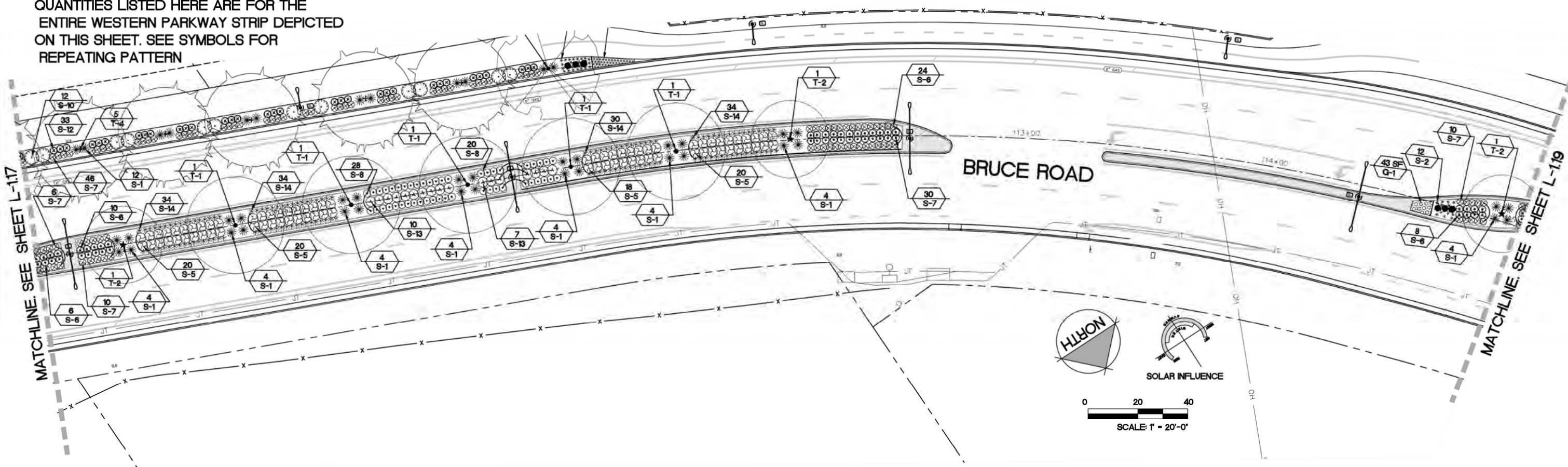
SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-11 •	SALVIA X 'BEE'S BLISS' BEE'S BLISS SAGE	LOW	1 GAL	54	SEE DETAIL LS-6, SHEET L-2.20.
S-12 ○	NANDINA DOMESTICA 'GULF STREAM' GULF STREAM HEAVENLY BAMBOO	LOW	1 GAL	211	SEE DETAIL LS-6, SHEET L-2.20.
S-13 ○	ABELIA X GRANDIFLORA 'ABELOPS' SUNSHINE DAYDREAM ABELIA	LOW	1 GAL	69	SEE DETAIL LS-6, SHEET L-2.20.
S-14 *	TULBAGHIA VIOLACEA SOCIETY GARLIC	LOW	1 GAL	684	SEE DETAIL LS-6, SHEET L-2.20.
S-15 ○	ACHILLEA X 'MOONSHINE' MOONSHINE YARROW	LOW	1 GAL	816	SEE DETAIL LS-6, SHEET L-2.20.
S-16 ○	ARCTOSTAPHYLOS UVA URSI 'WOOD'S COMPACT' WOOD'S COMPACT KINNICK KINNICK	MED	1 GAL	349	SEE DETAIL LS-6, SHEET L-2.20.
BULBS					
B-1	NARCISSUS DAFFODIL	VERY LOW	BULBS	1,632 SF	PLANT • 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED.
B-2	AMARYLLIS MARCH LILY	VERY LOW	BULBS	287 SF	PLANT • 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED
SYMBOL					
88	PLANT QUANTITY				
S-88	PLANT TYPE				

QUANTITIES LISTED HERE ARE FOR THE
ENTIRE EASTERN PARKWAY STRIP
DEPICTED ON THIS SHEET. SEE
SYMBOLS FOR REPEATING PATTERN

QUANTITIES LISTED HERE ARE FOR THE
ENTIRE WESTERN PARKWAY STRIP DEPICTED
ON THIS SHEET. SEE SYMBOLS FOR
REPEATING PATTERN



QUANTITIES LISTED HERE ARE FOR THE ENTIRE WESTERN PARKWAY STRIP DEPICTED ON THIS SHEET. SEE SYMBOLS FOR REPEATING PATTERN



TREE LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
TREES					
T-1 •	QUERCUS LOBATA VALLEY OAK	LOW	15 GAL	74	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-2 *	NYSSA SYLVATICA SOUR GUM/ BLACK TUPELO	LOW	15 GAL	19	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-3	PISTACHIA CHINENSIS 'KEITH DAVIES' KEITH DAVIES CHINESE PISTACHE	LOW	15 GAL	5	SEE DETAIL LS-4 SHEET L-220 STANDARD.
T-4 +	QUERCUS WISLIZENI INTERIOR LIVE OAK	LOW	15 GAL	35	SEE DETAIL LS-4 SHEET L-220 STANDARD.
SEE SHEET L-220 FOR DETAILS AND ADDITIONAL NOTES. SEE BOOK FORM SPECIFICATIONS FOR ADDITIONAL INFORMATION					

SHRUB LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-1 *	FORTNIGHT LILY DIETES IRIDOIDES	LOW	5 GAL	451	SEE DETAIL LS-6, SHEET L-220.
S-2 *	FESTUCA 'SISKIYOU BLUE' SISKIYOU BLUE FESCUE	LOW	1 GAL	605	SEE DETAIL LS-6, SHEET L-220.
S-3 •	RHAPHIOLEPIS UMBELLATA 'MINOR' DWARF YEDDA HAWTHORN	LOW	5 GAL	130	SEE DETAIL LS-6, SHEET L-220.
S-4 •	MAHONIA AQUIFOLIUM 'COMPACTA' COMPACT OREGON GRAPE	LOW	5 GAL	514	SEE DETAIL LS-6, SHEET L-220.
S-5 •	SALVIA GREGII 'RED' RED FLOWERING AUTUMN SAGE	LOW	5 GAL	472	SEE DETAIL LS-6, SHEET L-220.
S-6 •	ROSA X 'NOARE' FLOWER CARPET RED GROUNDCOVER ROSE	MED	5 GAL	449	SEE DETAIL LS-6, SHEET L-220.
S-7 •	TEUCRIUM CHAMAEDRYIS 'PROSTRATUM' COMPACT CREEPING GERMANDER	LOW	1 GAL	1,311	SEE DETAIL LS-6, SHEET L-220.
S-8 •	BACCHARIS PILULARIS 'TWIN PEAKS' DWARF COYOTE BRUSH	LOW	1 GAL	180	SEE DETAIL LS-6, SHEET L-220.
S-9 •	BERBERIS THUNBERGII 'CRIMSON PYGMY' (ATROPURPUREA NANA) CRIMSON PYGMY DWARF JAPANESE BARBERRY	LOW	1 GAL	144	SEE DETAIL LS-6, SHEET L-220.
S-10 •	CISTUS X PULVERULENTUS 'SUNSET' MAGENTA ROCKROSE	LOW	1 GAL	64	SEE DETAIL LS-6, SHEET L-220.

SHRUB LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-11 •	SALVIA X 'BEE'S BLISS' BEE'S BLISS SAGE	LOW	1 GAL	54	SEE DETAIL LS-6, SHEET L-220.
S-12 •	NANDINA DOMESTICA 'GULF STREAM' GULF STREAM HEAVENLY BAMBOO	LOW	1 GAL	211	SEE DETAIL LS-6, SHEET L-220.
S-13 •	ABELIA X GRANDIFLORA 'ABELOPS' SUNSHINE DAYDREAM ABELIA	LOW	1 GAL	69	SEE DETAIL LS-6, SHEET L-220.
S-14 •	TULBAGHIA VIOLACEA SOCIETY GARLIC	LOW	1 GAL	684	SEE DETAIL LS-6, SHEET L-220.
S-15 •	ACHILLEA X 'MOONSHINE' MOONSHINE YARROW	LOW	1 GAL	816	SEE DETAIL LS-6, SHEET L-220.
S-16 •	ARCTOSTAPHYLOS UVA URSI 'WOOD'S COMPACT' WOOD'S COMPACT KINNICK KINNICK	MED	1 GAL	349	SEE DETAIL LS-6, SHEET L-220.
BULBS					
B-1 •	NARCISSUS DAFFODIL	VERY LOW	BULBS	1,632 SF	PLANT * 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED.
B-2 •	AMARYLLIS MARCH LILY	VERY LOW	BULBS	287 SF	PLANT * 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED.
SYMBOL					
88	PLANT QUANTITY				
S-88	PLANT TYPE				

CITY OF CHICO
PUBLIC WORKS DEPARTMENT

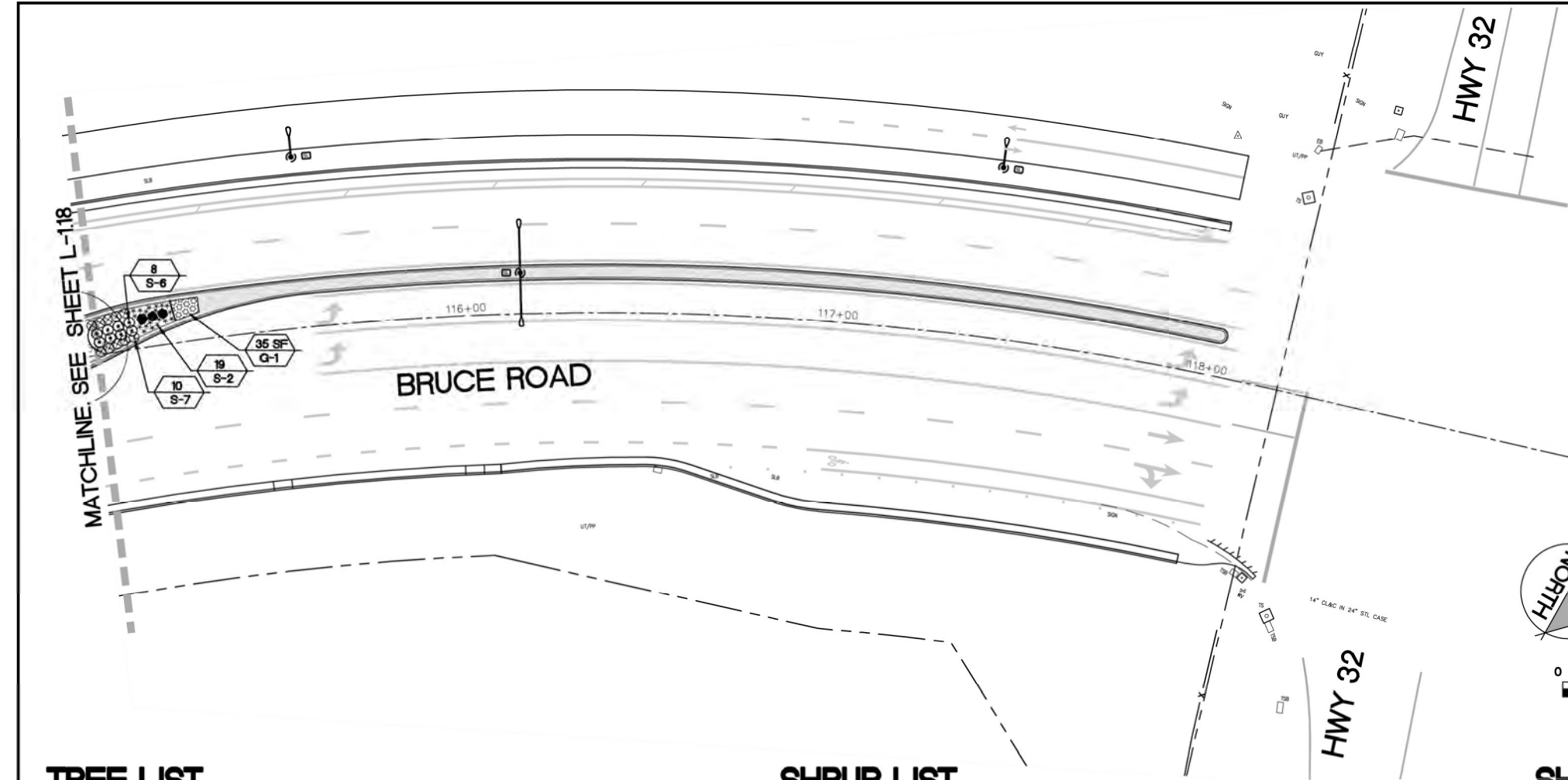


BRUCE ROAD RECONSTRUCTION
LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 109+00 TO 115+00

BISHO FIRTH LANDSCAPE ARCHITECTS, INC.
627 BROADWAY, SUITE 220, CHICO, CALIFORNIA 95928
PHONE: (530) 899-1130
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Project Number: 16038	Drawing Number: L-218
Scale: PER PLAN Horizontal	Sheet 152 of 182



TREE LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
TREES					
T-1 •	QUERCUS LOBATA VALLEY OAK	LOW	15 GAL	74	SEE DETAIL LS-4 SHEET L-2.20 STANDARD.
T-2 •	NYSSA SYLVATICA SOUR GUM/ BLACK TUPELO	LOW	15 GAL	19	SEE DETAIL LS-4 SHEET L-2.20 STANDARD.
T-3	PISTACHIA CHINENSIS 'KIETH DAVIES' KEITH DAVIES CHINESE PISTACHE	LOW	15 GAL	5	SEE DETAIL LS-4 SHEET L-2.20 STANDARD.
T-4	QUERCUS WISLIZENI INTERIOR LIVE OAK	LOW	15 GAL	35	SEE DETAIL LS-4 SHEET L-2.20 STANDARD.
SEE SHEET L-2.20 FOR DETAILS AND ADDITIONAL NOTES. SEE BOOK FORM SPECIFICATIONS FOR ADDITIONAL INFORMATION					

SHRUB LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-1	FORTNIGHT LILY DIETES IRIDOIDES	LOW	5 GAL	451	SEE DETAIL LS-6, SHEET L-2.20.
S-2 *	FESTUCA 'SISKIYOU BLUE' SISKIYOU BLUE FESCUE	LOW	1 GAL	605	SEE DETAIL LS-6, SHEET L-2.20.
S-3	RHAPHIOLEPIS UMBELLATA 'MINOR' DWARF YEDDA HAWTHORN	LOW	5 GAL	130	SEE DETAIL LS-6, SHEET L-2.20.
S-4	MAHONIA AQUIFOLIUM 'COMPACTA' COMPACT OREGON GRAPE	LOW	5 GAL	514	SEE DETAIL LS-6, SHEET L-2.20.
S-5	SALVIA GREGII 'RED' RED FLOWERING AUTUMN SAGE	LOW	5 GAL	472	SEE DETAIL LS-6, SHEET L-2.20.
S-6	ROSA X 'NOARE' FLOWER CARPET RED GROUNDCOVER ROSE	MED	5 GAL	449	SEE DETAIL LS-6, SHEET L-2.20.
S-7	TEUCRIUM CHAMAEDRYIS 'PROSTRATUM' COMPACT CREEPING GERMANDER	LOW	1 GAL	1,311	SEE DETAIL LS-6, SHEET L-2.20.
S-8	BACCHARIS PILULARIS 'TWIN PEAKS' DWARF COYOTE BRUSH	LOW	1 GAL	180	SEE DETAIL LS-6, SHEET L-2.20.
S-9	BERBERIS THUNBERGII 'CRIMSON PYGMY' (ATROPURPUREA NANA) CRIMSON PYGMY DWARF JAPANESE BARBERRY	LOW	1 GAL	144	SEE DETAIL LS-6, SHEET L-2.20.
S-10	CISTUS X PULVERULENTUS 'SUNSET' MAGENTA ROCKROSE	LOW	1 GAL	64	SEE DETAIL LS-6, SHEET L-2.20.

SHRUB LIST

SYMBOL	BOTANICAL NAME/COMMON NAME	WATER USE	SIZE	QTY	REMARKS
SHRUBS					
S-11	SALVIA X 'BEE'S BLISS' BEE'S BLISS SAGE	LOW	1 GAL	54	SEE DETAIL LS-6, SHEET L-2.20.
S-12	NANDINA DOMESTICA 'GULF STREAM' GULF STREAM HEAVENLY BAMBOO	LOW	1 GAL	211	SEE DETAIL LS-6, SHEET L-2.20.
S-13	ABELIA X GRANDIFLORA 'ABELOPS' SUNSHINE DAYDREAM ABELIA	LOW	1 GAL	69	SEE DETAIL LS-6, SHEET L-2.20.
S-14	TULBAGHIA VIOLACEA SOCIETY GARLIC	LOW	1 GAL	684	SEE DETAIL LS-6, SHEET L-2.20.
S-15	ACHILLEA X 'MOONSHINE' MOONSHINE YARROW	LOW	1 GAL	816	SEE DETAIL LS-6, SHEET L-2.20.
S-16	ARCTOSTAPHYLOS UVA URSI 'WOOD'S COMPACT' WOOD'S COMPACT KINNICK KINNICK	MED	1 GAL	349	SEE DETAIL LS-6, SHEET L-2.20.
BULBS					
B-1	NARCISSUS DAFFODIL	VERY LOW	BULBS	1,632 SF	PLANT • 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED.
B-2	AMARYLLIS MARCH LILY	VERY LOW	BULBS	287 SF	PLANT • 12" O.C. SEE PLANTING NOTE #6, SHEET L-18. NON-IRRIGATED.
SYMBOL					
88	PLANT QUANTITY				
S-88	PLANT TYPE				

Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB					
Checked:	JBB	Date: 12-6-2023				

CITY OF CHICO
PUBLIC WORKS DEPARTMENT



BRUCE ROAD RECONSTRUCTION
LANDSCAPE PLANTING PLAN BRUCE ROAD STA. 115+00 TO 118+09.00

BISHO FIRTH LANDSCAPE ARCHITECTS, INC.
427 BROADWAY, SUITE 220, CHICO, CALIFORNIA 95928
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Project Number:	16038	Drawing Number:	L-219
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 153 of 182

BFLA Project Number: 2414

PLANTING NOTES

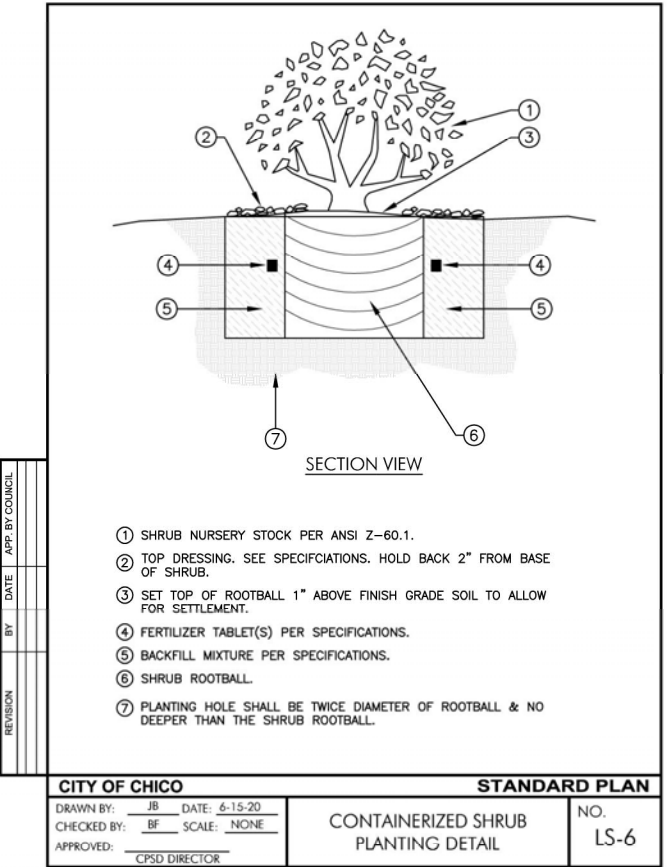
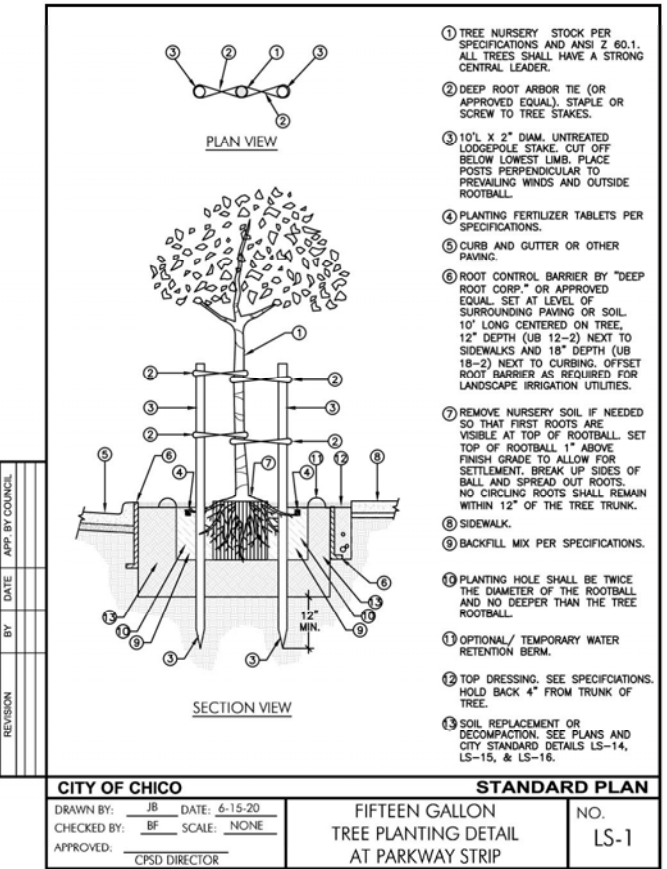
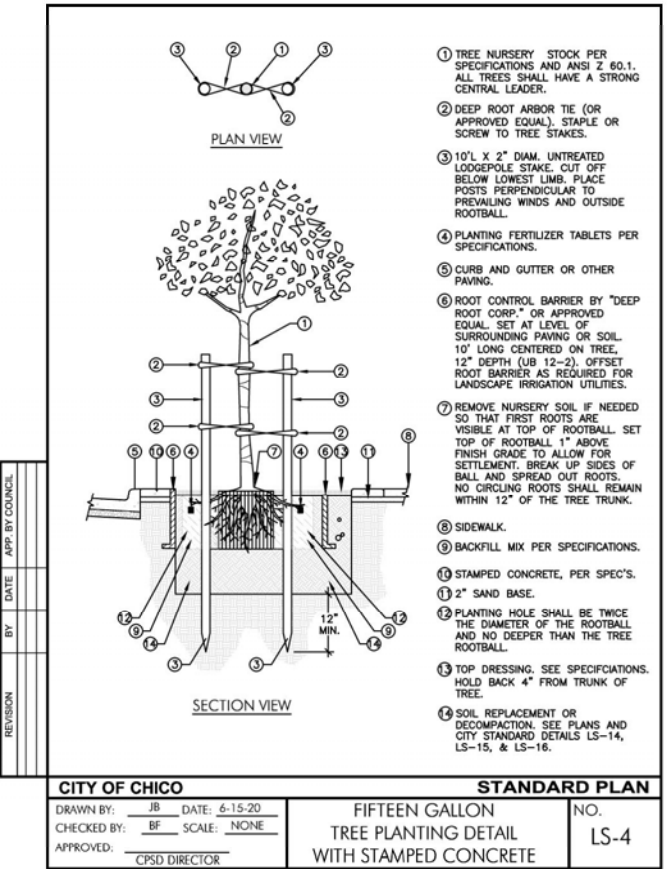
- 1. VERIFY EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- 2. PLANT QUANTITIES ARE FOR CONVENIENCE OF THE CONTRACTOR. CONTRACTOR TO CONFIRM EXACT NUMBER.
- 3. PLANT MATERIALS SHALL BE BID ON THE BASIS OF SPECIES AND CONTAINER SIZE, NOT ON CONTAINER SIZE ALONE.
- 4. SUBMIT SAMPLES AND SOURCE(S) FOR REVIEW BY CITY OF CHICO BEFORE PURCHASING AND DELIVERY TO THE JOB SITE. TOP DRESS MEDIAN, PARKWAY STRIP AND LANDSCAPED AREA BETWEEN SIDEWALK AND WALL WITH 3" MINIMUM THICK LAYER OF ¾" BROWN LAVA ROCK OVER 4.1 OZ. DEWITT WEED BARRIER (OR APPROVED EQUAL). TOP DRESS BULB AREAS WITH A 3" MINIMUM LAYER OF 1"-1½" WALK-ON FIR BARK MULCH.
- 5. ALL PLANTS ARE TO BE INSTALLED IN ACCORDANCE WITH CITY OF CHICO STANDARD DETAILS AND SPECIFICATIONS.
- 6. ALL PROPOSED TREES ARE DESIGNATED AS CITY OF CHICO STREET TREES. AS SUCH, THEY SHALL CONFORM TO AMERICAN NURSERY STANDARD ANSI Z601-1990, AND SHALL HAVE A WELL FORMED CENTRAL LEADER AND SHALL NOT BE SUBSTITUTED WITH ANOTHER SPECIES WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY OF CHICO, AND SHALL HAVE AT LEAST THE MINIMUM CALIPER AS STATED IN THE PLANT LIST REGARDLESS OF CONTAINER SIZE.
- 7. BULBS SHALL BE PLANTED IN THE GROUND IN THE FALL BEFORE THE FIRST HARD FROST. IT IS BEST TO WAIT UNTIL THE OUTSIDE TEMPERATURE DOES NOT REACH 65 DEGREES ANYMORE. DO NOT APPLY WEED BARRIER OR PRE-EMERGENT HERBICIDE TO BULB PLANTING AREAS.
- 8. REFER TO PLANS, DETAILS AND BOOK FORM SPECIFICATIONS FOR ADDITIONAL INFORMATION.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWEL) SOILS MANAGEMENT REPORT NOTE

IN ORDER TO REDUCE RUNOFF AND ENCOURAGE HEALTHY PLANT GROWTH, A SOIL MANAGEMENT REPORT SHALL BE COMPLETED BY THE PROJECT APPLICANT, OR HIS/HER DESIGNEE, AS FOLLOWS:
SUBMIT SOIL SAMPLES TO A LABORATORY FOR ANALYSIS AND RECOMMENDATIONS (SUNLAND ANALYTICS OR EQUAL- PHONE: 916-852-8557).
SOIL SAMPLING SHALL BE CONDUCTED IN ACCORDANCE WITH LABORATORY PROTOCOL, INCLUDING PROTOCOLS REGARDING ADEQUATE SAMPLING DEPTH FOR THE INTENDED PLANTS.
THE SOIL ANALYSIS SHALL INCLUDE:
SOIL TEXTURE
INFILTRATION RATE DETERMINED BY LABORATORY TEST OR SOIL TEXTURE INFILTRATION RATE TABLE
PH
TOTAL SOLUBLE SALTS
SODIUM
PERCENT ORGANIC MATTER AND RECOMMENDATIONS.
IN PROJECTS WITH MULTIPLE LANDSCAPE INSTALLATIONS (I.E. PRODUCTION HOME DEVELOPMENTS) A SOIL SAMPLING RATE OF 1 IN 7 LOTS OR APPROXIMATELY 15% WILL SATISFY THIS REQUIREMENT. LARGE LANDSCAPE PROJECTS SHALL SAMPLE AT A RATE EQUIVALENT TO 1 IN 7 LOTS.
THE PROJECT APPLICANT, OR HIS/HER DESIGNEE, SHALL COMPLY WITH ONE OF THE FOLLOWING:
IF SIGNIFICANT MASS GRADING IS NOT PLANNED, THE SOIL ANALYSIS REPORT SHALL BE SUBMITTED TO THE LOCAL AGENCY AS PART OF THE LANDSCAPE DOCUMENTATION PACKAGE OR
IF SIGNIFICANT MASS GRADING IS PLANNED, THE SOIL ANALYSIS REPORT SHALL BE SUBMITTED TO THE LOCAL AGENCY AS PART OF THE CERTIFICATE OF COMPLETION.
THE SOIL ANALYSIS REPORT SHALL BE MADE AVAILABLE, IN A TIMELY MANNER, TO THE PROFESSIONALS PREPARING THE LANDSCAPE DESIGN PLANS AND IRRIGATION DESIGN PLANS TO MAKE ANY NECESSARY ADJUSTMENTS TO THE DESIGN PLANS.
THE PROJECT APPLICANT OR HIS/HER DESIGNEE SHALL SUBMIT DOCUMENTATION VERIFYING IMPLEMENTATION OF SOIL ANALYSIS REPORT RECOMMENDATIONS TO THE LOCAL AGENCY WITH CERTIFICATE OF COMPLETION.

SOIL REPORT NOTE

THE PROJECT LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR OBTAINING SOILS ANALYSIS OF LANDSCAPE SOIL FOR PLANTING AREAS FROM AN ANALYTICAL LABORATORY AND AMENDING THE LANDSCAPE SOIL AS PER THE ANALYTICAL LABORATORY'S RECOMMENDATIONS FOR LANDSCAPES STATED IN RATES OF COMMONLY AVAILABLE AMENDMENTS (CUBIC YARDS OR WEIGHT PER 1,000 SF). SOILS TEST SHALL BE SUNLAND ANALYTICAL (916-852-8557) LANDSCAPE PACKAGE LTP-4 OR APPROVED EQUAL.



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BFLA Project Number: 2414

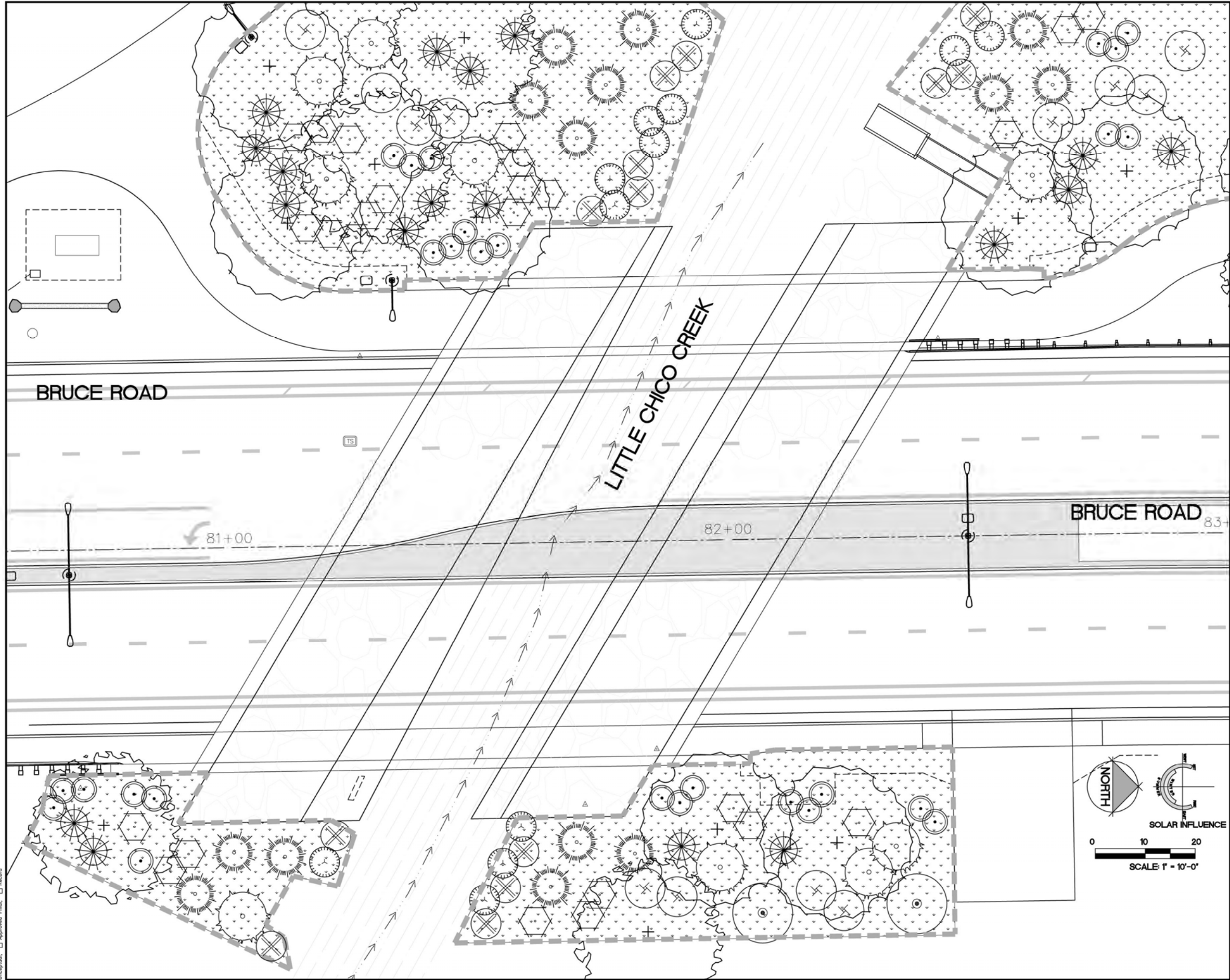
Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB					
Checked:	JBB	Date: 12-6-2023				

CITY OF CHICO
PUBLIC WORKS DEPARTMENT



BRUCE ROAD RECONSTRUCTION
LANDSCAPE PLANTING DETAILS AND NOTES

Project Number:	16038	Drawing Number:	L-220
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 154 of 182



PLANTING LIST

SYMBOL	BOTANICAL NAME/ COMMON NAME	SIZE	QUANTITY	DETAIL SHEET
TREES				
	POPULUS FREMONTII FREMONT COTTONWOOD	T-POT	14	12,3/ L-222
	QUERCUS LOBATA VALLEY OAK	15 GAL	6	4/ L-222
	QUERCUS WISZENII INTERIOR LIVE OAK	15 GAL	3	4/ L-222
	AESCULUS CALIFORNICA CALIFORNIA BUCKEYE	T-POT	3	12,3/ L-222
	CERCIS OCCIDENTALIS WESTERN REDBUD	T-POT	8	12,3/ L-222
SHRUBS				
	BACCHARIS SALICIFOLIA MULEFAT	CUTTING	26	12,3/ L-222
	MUHLENBERGIA RIGENS DEER GRASS	1 GAL	16	12,3/ L-222
	SALIX LAEVIGATA RED WILLOW	CUTTING*	11	5/ L-222
	SALIX LASIOLEPIS ARROYO WILLOW	CUTTING*	13	5/ L-222
	ROSA CALIFORNICA WILD ROSE	T-POT	9	12,3/ L-222
	SOLIDAGO CALIFORNICA CALIFORNIA GOLDENROD	T-POT	25	12,3/ L-222
	SEED AREA- RIPARIAN SEED MIX (NON-IRRIGATED)	HYDRO- SEED	18,392 SF	NA

* CUTTINGS TO BE TAKEN FROM AN APPROVED LOCATION.
SEE WILLOW CUTTING SPECIFICATIONS, SHEET L-222 FOR MORE INFORMATION.

- NOTES:
- QUANTITIES LISTED ON THIS SHEET ARE FOR THE RESTORATION AREA ONLY AND SHOULD BE BID INDEPENDENT OF THE PLANTS SPECIFIED FOR THE MEDIAN AND PARKWAY STRIPS.
 - SEED MIX: SEE BID BOOK, SECTION 21-2.02F, "SEED".

Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB	Date:	12-6-2023			
Checked:	JBB					

CITY OF CHICO
PUBLIC WORKS DEPARTMENT



BRUCE ROAD RECONSTRUCTION
LANDSCAPE RESTORATION AT LITTLE CHICO CREEK

BISHO FIRTH LANDSCAPE ARCHITECTS, INC.
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Project Number: 16038	Drawing Number: L-221
Scale: PER PLAN Horizontal	PER PLAN Vertical
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WILLOW CUTTING SPECIFICATIONS

HARVESTING BRANCH CUTTINGS

- HARVEST LOCATIONS** CONTRACTOR SHALL IDENTIFY HARVEST SOURCE(S) AND SUBMIT THE LOCATION TO THE OWNER FOR APPROVAL PRIOR TO HARVEST. ONLY LOCALLY NATIVE PLANT SPECIES ARE PERMISSIBLE. THE CONTRACTOR SHALL SECURE PERMISSION FROM THE LANDOWNER OF THE HARVEST SOURCE, AND MEET ALL REGULATORY, PERMITTING AND LANDOWNER'S REQUIREMENTS.
- ACCESS** CONTRACTOR IS RESPONSIBLE FOR MEETING THE ACCESS REQUIREMENTS OF LANDOWNER. THE CONTRACTOR SHALL EMPLOY MEASURES THAT MINIMIZE TRAMPLING OF VEGETATION, AND DO NOT CAUSE SOIL EROSION OR OVER COMPACTION.
- HARVEST AREAS** PRIOR TO INITIATING HARVEST ACTIVITIES, HARVEST AREAS SHALL BE FLAGGED IN THE FIELD FOR THE APPROVAL OF THE LANDOWNER AND THE PROJECT OWNER.
- OBSERVATION** THE OWNER SHALL BE AFFORDED THE OPPORTUNITY TO OBSERVE MATERIAL HARVESTING. CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HOURS NOTICE TO THE OWNER PRIOR TO INITIATING MATERIAL HARVESTING ACTIVITIES.
- HARVEST METHODS**
 - HARVEST WOOD THAT IS 2 TO 5 YEARS OLD WITH SMOOTH BARK THAT IS NOT DEEPLY FURROWED. AVOID WOOD WITH SUCKERS OF CURRENT YEAR'S GROWTH AS THEY LACK SUFFICIENT STORED ENERGY RESERVES TO SPROUT CONSISTENTLY. HARVEST SOME YOUNGER WOOD (LESS THAN A YEAR OLD) ALONG WITH OLDER WOOD SUCH THAT A MAJORITY OF THE MATERIAL IS 2 TO 5 YEARS OLD.
 - CUTTINGS TO BE 4 TO 6 FEET IN LENGTH WITH A MINIMUM DIAMETER OF 3/4 INCH.
 - SELECT HEALTHY WOOD THAT IS REASONABLY STRAIGHT. TRY TO REMOVE CUTTINGS FROM INSIDE THE CROWN OF THE EXISTING PLANT AND SPREAD THE HARVESTING ACTIVITY THROUGHOUT THE STAND TO MINIMIZE VISUAL IMPACT.
 - MATERIAL SHALL BE HARVESTED ABOVE GROUND IN A MANNER THAT DOES NOT DAMAGE THE HOST PLANT. DO NOT MAKE MORE THAN 1/3 OF THE DONOR PLANT TO AVOID HARMING IT. MATERIAL SHALL BE CUT CLEANLY NEAR THE BASE OF THE STEM LEAVING NO MORE THAN 1/4 INCH OF STUMP. LEAVE SIDE BRANCHES IN PLACE. TRIM THE TERMINAL BUD (THE BUD AT THE GROWING TIP) SO THE PLANT ENERGY WILL BE REROUTED TO THE LATERAL BUDS AND ADVENTITIOUS TISSUE.
- DEBRIS** CONTRACTOR IS RESPONSIBLE FOR APPROPRIATE PROCESSING AND DISPOSAL OF ALL PLANT DEBRIS. THE HARVEST LOCATIONS SHALL BE LEFT CLEAN AND FREE OF ALL HARVEST DEBRIS.
- MATERIAL PROTECTION** CUT MATERIAL SHALL BE KEPT MOIST CONTINUOUSLY FROM TIME OF HARVEST TO INSTALLATION ON SITE. MATERIAL SHALL BE CONTINUOUSLY PROTECTED FROM EXPOSURE TO SUN AND WIND. CUTTING MATERIAL SHALL NOT BE REFRIGERATED.
- TRANSPORTATION** IMMEDIATELY AFTER HARVEST, MATERIAL SHALL BE WRAPPED IN OR LAYERED BETWEEN MOIST FABRIC FOR TRANSPORTATION. MATERIAL LAYERS BETWEEN FABRIC SHALL BE NO MORE THAN THREE FEET THICK. MATERIAL SHALL BE THOROUGHLY WETTED ONCE PER HOUR FORM THE TIME OF HARVEST UNTIL STORAGE (SOAKING) AT THE PROJECT SITE.

PRE-PLANTING SOAKING AND STORAGE OF BRANCH CUTTINGS

- AFTER HARVEST AND TRANSPORT, ALL CUTTINGS SHALL BE STORED BY SOAKING.
- ALL HARVESTED MATERIAL SHALL BE SOAKED (E.G., COMPLETELY SUBMERGED IN WATER) ONSITE WITH THE CUT (BASIN) END OF THE MATERIAL SUBMERGED AT LEAST 1/3 OF STEM LENGTH. SOAKING MATERIAL SHALL BE SHADDED FROM SUN EXPOSURE AT ALL TIMES. STORAGE/SOAKING SITE SHALL BE LOCATED AND CONSTRUCTED BY CONTRACTOR, AS APPROVED BY THE OWNER'S REPRESENTATIVE.
- NEVER LET THE CUTTINGS DRY OUT. SOAK CUTTINGS FOR A MINIMUM OF 72 HOURS, WHETHER THEY ARE STORED, OR HARVESTED AND IMMEDIATELY INSTALLED. WOODY CUTTINGS (WILLOW, COTTONWOOD) SHOULD BE SOAKED IN WATER FOR 5-7 DAYS (MINIMUM 72 HOURS) PRIOR TO PLANTING. IF POSSIBLE USE WATER HIGH IN OXYGEN, SUCH AS A RUNNING STREAM TO IMPROVE ADVENTITIOUS ROOT FORMATION. SOAKING THE CUTTINGS SHOULD NOT EXCEED 14 DAYS.

BRUSH LAYER PLANTING ON SLOPE

- GRADE FIRST LAYER OF SLOPED AREA ON FLOOD PLAIN BANK FOR BRUSH LAYERS TO BE PLACED ON.
- PLACE BRUSH LAYERS PER PLAN AND DETAIL 5, THIS SHEET.
- IMMEDIATELY WATER BRUSH LAYERS AND SURROUNDING SOIL AFTER SETTING IN PLACE.
- DEPOSIT NEXT LAYER OF SOIL COVERING FIRST BRUSH LAYER.
- DO NOT DAMAGE CUTTING WHILE PLACING FILL. IF POSSIBLE, DAMAGED MATERIAL SHALL BE CUT BACK TO INTACT POINT OF STEM. IF THIS IS NOT POSSIBLE, REMOVE AND REPLACE DAMAGED MATERIAL.
- SOAK ENTIRE BANK AGAIN
- WATER CUTTINGS AT LEAST ONCE PER WEEK TO ENSURE SOIL IS KEPT MOIST.
- NEVER LET THE CUTTINGS DRY OUT

LANDSCAPE RESTORATION MAINTENANCE NOTES

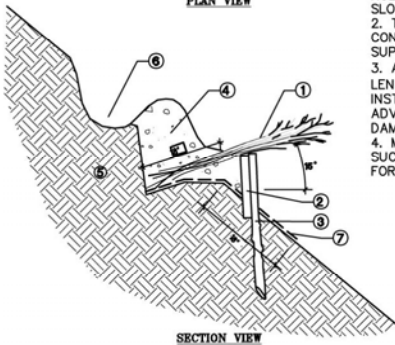
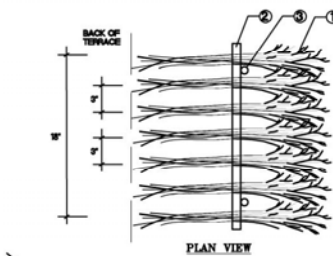
- CONTINUOUSLY MAINTAIN THE ENTIRE PROJECT AREA DURING THE PROGRESS OF THE WORK AND DURING THE CONTRACTED MAINTENANCE PERIOD UNTIL FINAL ACCEPTANCE OF BUTTE COUNTY DEPARTMENT OF PUBLIC WORKS.
- MAINTENANCE PERIOD SHALL NOT START UNTIL ALL ELEMENTS OF CONSTRUCTION AND PLANTING FOR THE ENTIRE PROJECT ARE IN ACCORDANCE WITH PLANS AND SPECIFICATIONS AND THE CONTRACTOR HAS DELIVERED THE CORRECTED AND COMPLETED AS-BUILT PLANS ON REPRODUCIBLE AND DIGITAL MEDIA TO THE DEPARTMENT OF PUBLIC WORKS. A PRIME REQUIREMENT IS THAT ALL SEEDED AREAS SHALL BE PLANTED AND THAT ALL SEEDED AREAS SHALL SHOW A HEALTHY STAND OF GRASS SEEDLINGS. IF SUCH CRITERION IS MET TO THE SATISFACTION OF THE DEPARTMENT OF PUBLIC WORKS, A WRITTEN NOTIFICATION SHALL BE ISSUED TO ESTABLISH THE EFFECTIVE BEGINNING DATE OF THE MAINTENANCE PERIOD.
- ALL PLANT MATERIAL AND OTHER MATERIALS INSTALLED UNDER THE CONTRACT SHALL BE GUARANTEED FOR ONE (1) YEAR FROM TIME OF FINAL ACCEPTANCE AGAINST ANY AND ALL POOR, INADEQUATE OR INFERIOR MATERIALS AND/OR WORKMANSHIP. INSTALLATION OR IMPROPER MAINTENANCE (DURING CONTRACTED MAINTENANCE PERIOD), AS DETERMINED BY THE DEPARTMENT OF PUBLIC WORKS, SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- ANY PLANT MATERIALS FOUND TO BE DEAD, MISSING, OR NOT IN A SATISFACTORY OR HEALTHY CONDITION DURING THE MAINTENANCE PERIOD SHALL BE REPLACED IMMEDIATELY. THE DEPARTMENT OF PUBLIC WORKS SHALL BE SOLE JUDGE AS TO THE CONDITION OF MATERIALS. MATERIAL TO BE REPLACED WITHIN THE GUARANTEE PERIOD SHALL BE REPLACED BY THE CONTRACTOR WITHIN FIVE (5) DAYS OF WRITTEN NOTIFICATION BY THE DEPARTMENT OF PUBLIC WORKS. ALL REPLACEMENT MATERIALS AND INSTALLATIONS SHALL COMPLY WITH THE PLANS AND SPECIFICATIONS. ANY PLANT MISSING DUE TO SUSPECTED THEFT SHALL BE REPLACED BY THE CONTRACTOR.
- PROPER MAINTENANCE, INCLUDING WATERING, WEEDING, FERTILIZATION, REPAIRING AND PROTECTION SHALL BE REQUIRED UNTIL ENTIRE PROJECT IS FINALLY ACCEPTED, BUT IN ANY EVENT FOR A PERIOD OF NOT LESS THAN THE SPECIFIED MAINTENANCE PERIOD AFTER PLANTING.
- THOROUGHLY WATER TO INSURE VIGOROUS AND HEALTHY GROWTH UNTIL WORK IS ACCEPTED. WATER IN A MANNER TO PREVENT EROSION DUE TO APPLICATION OF EXCESSIVE QUANTITIES OF WATER. WHEN HAND WATERING, USE A WATER WAND TO BREAK THE WATER FORCE. WATER TREES TO KEEP ROOT BALL MOIST FOR FIRST TWO WEEKS AFTER PLANTING. WATER INSIDE THE PLANTING BERM, FILLING THE TREE BASIN AT LEAST TWICE PER WATERING SESSION.
- KEEP PLANT BASINS AND AREAS BETWEEN PLANTS FREE OF WEEDS. CONTROL WEEDS BY SPADE REMOVAL WHEN NECESSARY. AVOID FREQUENT SOIL CULTIVATION THAT DESTROYS SHALLOW ROOTS. DO NOT APPLY HERBICIDES.
- TREE PROTECTIVE MATERIAL AND STAKES SHALL BE INSPECTED AND ADJUSTED TO PREVENT RUBBING THAT CAUSES BARK WOUNDS AND REMAIN INSTALLED PER PLAN.
- INSECT, ANIMAL, RODENT AND DISEASE CONTROL: MAINTAIN PROPER CONTROL WITH LEGALLY APPROVED MATERIALS AS REQUIRED AS PART OF THE CONTRACT.
- THE CONTRACTOR SHALL MAINTAIN PROTECTION OF THE PLANTED AREAS. DAMAGED AREAS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- REMOVE TRASH WEEKLY WITHIN PROJECT LIMIT OF WORK.
- REPLACE PLANT AND OTHER MATERIALS AS PER GUARANTEE AND REPLACEMENT SPECIFICATIONS OF THIS SECTION.

LANDSCAPE RESTORATION PLANTING NOTES

- VERIFY EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- ALL PLANT MATERIAL IS TO BE CHECKED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. NO SUBSTITUTIONS FOR PLANT MATERIAL WILL BE ALLOWED UNLESS PRIOR ARRANGEMENTS HAVE BEEN APPROVED BY LANDSCAPE ARCHITECT. IN THE EVENT OF PLANT MATERIAL UNAVAILABILITY, CONTACT LANDSCAPE ARCHITECT FOR ALTERNATIVE SOURCES OR APPROVED SPECIES SUBSTITUTION.
- PLANT QUANTITIES ARE FOR CONVENIENCE OF THE CONTRACTOR. CONTRACTOR TO CONFIRM EXACT NUMBER.
- TREE STAKES ARE TO BE PLACED PERPENDICULAR TO PREVAILING WINDS. REMOVE NURSERY STAKES, REPLACE WITH STAKES PER DETAIL. TREE TIES SHALL BE CINCH-TIE OR EQUAL.
- REFER TO PLANS, DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

LANDSCAPE RESTORATION PLANT SPECIFICATIONS

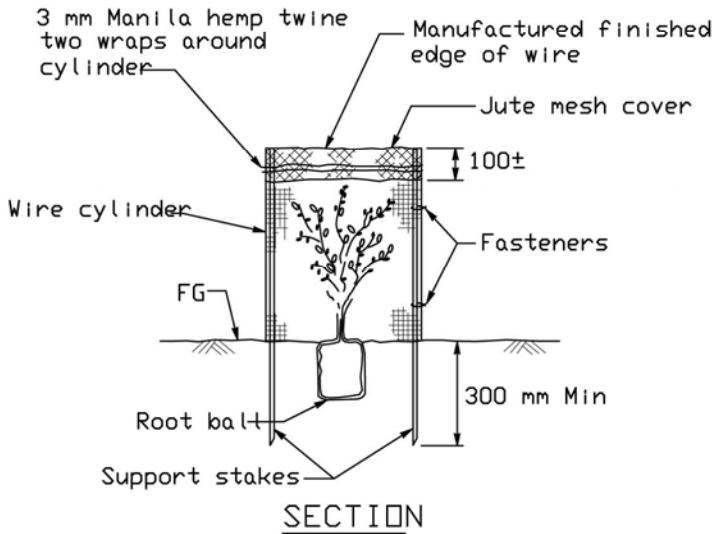
- GENERAL** ALL MATERIALS SHALL BE OF STANDARD, APPROVED AND FIRST-GRADE QUALITY AND SHALL BE IN PRIME CONDITION WHEN INSTALLED AND ACCEPTED. ANY COMMERCIALY PROCESSED OR PACKAGED MATERIAL SHALL BE DELIVERED TO THE SITE IN THE ORIGINAL UNOPENED CONTAINER BEARING THE MANUFACTURER'S GUARANTEED ANALYSIS. THE CONTRACTOR SHALL SUPPLY THE OWNER WITH A SAMPLE OF ALL SUPPLIED MATERIALS ACCOMPANIED BY ANALYTICAL DATA FROM AN APPROVED LABORATORY SOURCE ILLUSTRATING COMPLIANCE OF BEARING THE MANUFACTURER'S GUARANTEED ANALYSIS.
- PLANT MATERIAL** ALL PLANT MATERIAL SHALL BE OF THE SPECIES, VARIETY, SIZE AND CONDITION SPECIFIED ON THE PLANS. PLANT MATERIALS SHALL CONFORM WITH THE BEST EDITION OF ANSI Z60.1-1990 AMERICAN STANDARD FOR NURSERY STOCK. PLANT MATERIAL SHALL BE GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN LOCALITY OF PROJECT. CONTAINER-GROWN STOCK SHALL BE IN VIGOROUS, HEALTHY CONDITION, NOT ROOT BOUND OR WITH ROOT SYSTEM HARDENED OFF. USE ONLY LINEAR STOCK PLANT MATERIAL, WHICH IS WELL ESTABLISHED IN REMOVABLE CONTAINERS OR FORMED HOMOGENEOUS SOIL SECTIONS. CONTRACTOR TO VERIFY ALL PLANT QUANTITIES.
- SOIL PREPARATION** AMEND SOIL PER SOILS ANALYSIS (PER SHEET L-220). EACH PLANTING LOCATION SHALL BE CLEARED OF ALL COMPETING VEGETATION IN A 3' BY 3' AREA.
- FINISH GRADING** REMOVE ALL CONSTRUCTION DEBRIS AND ANY SOIL CONTAMINATED BY CONSTRUCTION DEBRIS. ESTABLISH FINISH GRADES IN A CONTINUOUS UNIFORM LINE RESULTING IN A UNIFORM SURFACE WITH NO RIDGES OR WATER POCKETS.
- PLANTING** ACTUAL PLANTING SHALL BE PERFORMED DURING THOSE PERIODS WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH LOCALLY ACCEPTED PRACTICE, AS APPROVED BY THE OWNER. ONLY AS MANY PLANTS AS CAN BE PLANTED AND WATERED ON THAT SAME DAY SHALL BE DISTRIBUTED IN A PLANTING AREA. CONTAINERS SHALL NOT BE OPENED PRIOR TO PLACING THE PLANTS IN THE PLANTING AREA. EXCESS SOIL GENERATED FROM THE PLANTING HOLES AND NOT USED AS BACKFILL OR IN ESTABLISHING THE FINAL GRADES SHALL BE SPREAD EVENLY ON SITE. PLANTING HOLES TO BE TWICE THE WIDTH OF THE ROOT BALL SHALL BE EXCAVATED USING AN AUGER, A SHOVEL, OR SIMILAR TECHNIQUE APPROVED BY THE OWNER. THE PLANTING HOLE SHALL BE BROKEN UP 6" BEYOND ROOT BALL. CAREFULLY REMOVE PLANTS WITHOUT INJURY OR DAMAGE TO ROOT BALL. AFTER REMOVING PLANT, MANUALLY SCARIFY ROOT BALL TO LOOSEN PERIMETER ROOTS. STAKE ALL STANDARD TREES AS PER DETAIL WITH 2 INCH DIAMETER POLES.
- BARK MULCH** ALL AREAS WITHIN THE LIMITS OF RESTORATION WORK TO BE TOP-DRESSED WITH THREE AND ONE-HALF (3-1/2) INCH LAYER OF MULCH (AFTER SETTLING). USE OF CITY OF CHICO WOOD CHIPS IS ACCEPTABLE IF AVAILABLE.
- CLEAN-UP** AFTER ALL PLANTING OPERATIONS HAVE BEEN COMPLETED REMOVE ALL TRASH, EXCESS SOIL AND RUBBISH FROM SITE. THE CONTRACTOR SHALL LEAVE THE SITE BROOM CLEAN AND SHALL WASH DOWN ALL PAVED AREAS LEAVING THE SITE IN A CLEAN CONDITION ACCEPTABLE TO THE OWNER.
- PLANT GUARANTEE** ALL PLANT MATERIAL AND OTHER MATERIALS INSTALLED UNDER THE CONTRACT SHALL BE GUARANTEED AGAINST ANY AND ALL POOR, INADEQUATE OR INFERIOR MATERIALS AND/OR WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR. ANY PLANT FOUND TO BE DEAD OR NOT IN A SATISFACTORY OR HEALTHY CONDITION DUE TO FAULTY MATERIALS, WORKMANSHIP, OR IMPROPER MAINTENANCE (DURING CONTRACTED MAINTENANCE PERIOD) AS DETERMINED BY THE OWNER, SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. SEE PROJECT SPECIFICATIONS.



- BRUSH LAYERS PER PLANTING PLAN, 7 CUTTINGS PER SYMBOL AS DEPICTED ON L-221
- ROUGH CUT 1x6 CEDAR BOARD
- WILLOW STAKE, REBAR, OR CONSTRUCTION STAKE, 3-4' LONG
- LIGHTLY COMPACTED BACKFILL
- UNDISTURBED SLOPE
- WATERING TRENCH
- CORR MAT

- NOTES:
- MODIFIED BRUSH LAYERS UTILIZE LOGS, WATTLES OR BOARDS FOR SUPPORT OF A SMALL TERRACE, WHICH IS CREATED TO CATCH ROLLING ROCKS AND INTERRUPT THE DOWN SLOPE MOVEMENT OF SOIL AND WATER.
 - THE CUTTINGS ARE INTENDED TO GROW AND CONTINUE TO TRAP SOIL AND ROCK AFTER THE SUPPORTS HAVE DETERIORATED.
 - A LARGE NUMBER OF SMALL (2M IN LENGTH) MODIFIED BRUSH LAYERS CAN BE INSTALLED ACROSS THE SLOPE WITH THE ADVANTAGE THAT SOME STRUCTURES CAN BE DAMAGED, AND OTHERS WILL STILL FUNCTION.
 - MODIFIED BRUSH LAYERS MAY HAVE BETTER SUCCESS IN ESTABLISHING ON SITES TOO DRY FOR WATTLES OR FASCINES TO GROW.

SCALE: NTS
5



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ALL DIMENSIONS ARE IN
MILLIMETERS UNLESS OTHERWISE SHOWN

SCALE: NTS

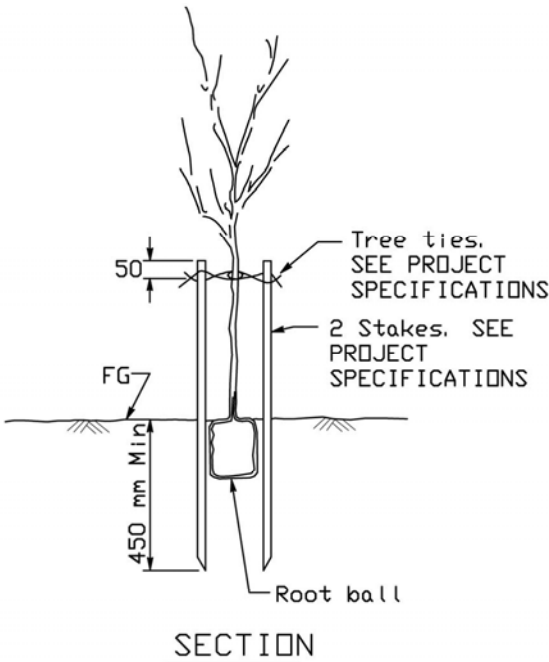
FOLIAGE PROTECTOR

3

BASIN TYPE I PLANTING (SLOPE AREA)

SCALE: NTS

1



SCALE: NTS

TREE STAKING

4

BASIN TYPE I PLANTING (FLAT AREA)

SCALE: NTS

2



BISHO FIRTH LANDSCAPE ARCHITECTS, INC.
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BFLA Project Number: 2414

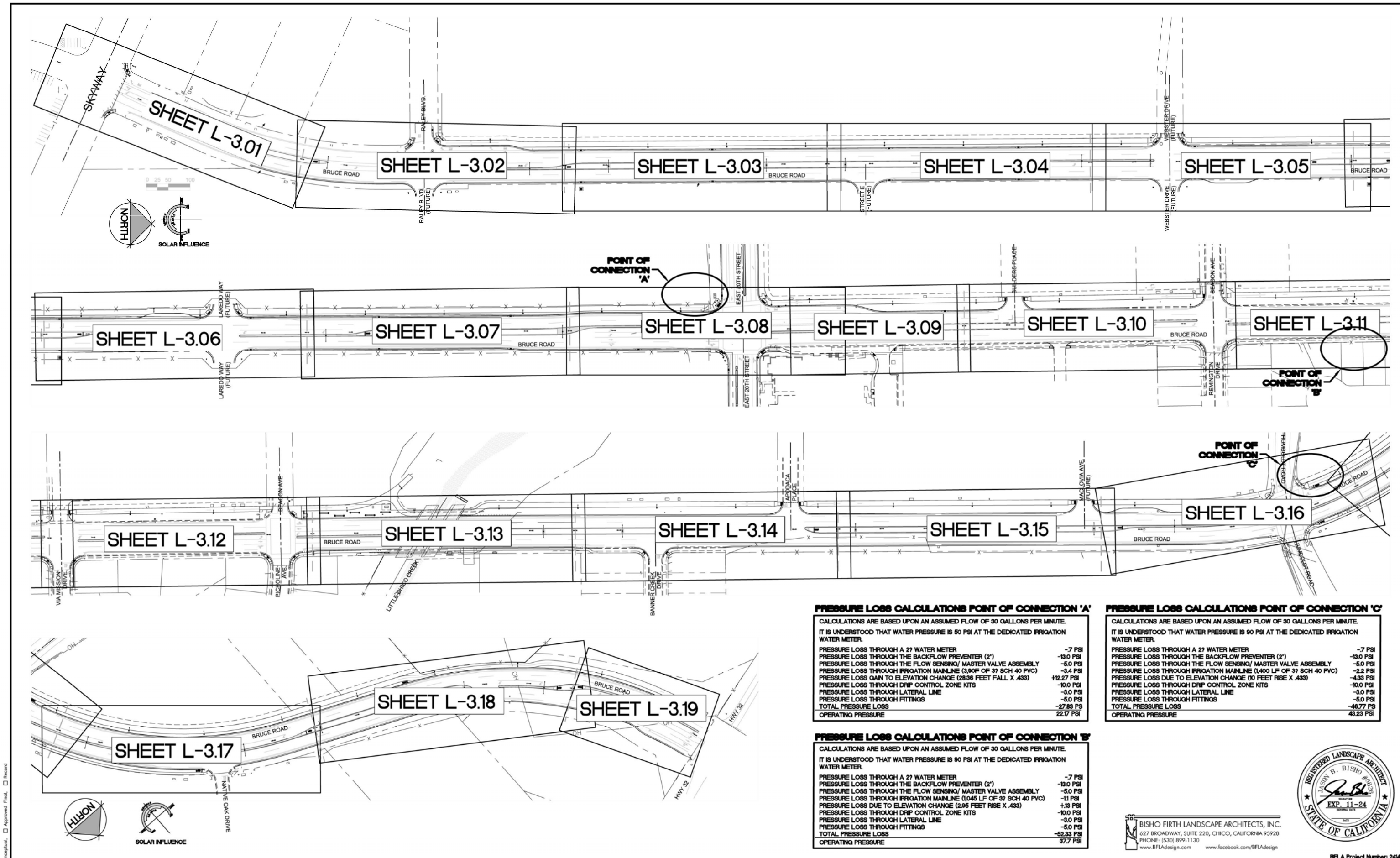
Designed: JBB	Approved:	Revision	Date	By
Drawn By: JBB/ TDB	Date: 12-6-2023			
Checked: JBB				

CITY OF CHICO
PUBLIC WORKS DEPARTMENT



BRUCE ROAD RECONSTRUCTION
LANDSCAPE RESTORATION AT LITTLE CHICO CREEK

Project Number: 16038	Drawing Number: L-222
Scale: PER PLAN Horizontal	PER PLAN Vertical
Sheet 156 of 182	



PRESSURE LOSS CALCULATIONS POINT OF CONNECTION 'A'

CALCULATIONS ARE BASED UPON AN ASSUMED FLOW OF 30 GALLONS PER MINUTE.
IT IS UNDERSTOOD THAT WATER PRESSURE IS 50 PSI AT THE DEDICATED IRRIGATION WATER METER.

PRESSURE LOSS THROUGH A 2" WATER METER	-7 PSI
PRESSURE LOSS THROUGH THE BACKFLOW PREVENTER (2")	-13.0 PSI
PRESSURE LOSS THROUGH THE FLOW SENSING/ MASTER VALVE ASSEMBLY	-5.0 PSI
PRESSURE LOSS THROUGH IRRIGATION MAINLINE (3,906 LF OF 3" SCH 40 PVC)	-3.4 PSI
PRESSURE LOSS GAIN TO ELEVATION CHANGE (28.36 FEET FALL X .433)	+12.27 PSI
PRESSURE LOSS THROUGH DRIP CONTROL ZONE KITS	-10.0 PSI
PRESSURE LOSS THROUGH LATERAL LINE	-3.0 PSI
PRESSURE LOSS THROUGH FITTINGS	-5.0 PSI
TOTAL PRESSURE LOSS	-27.83 PS
OPERATING PRESSURE	22.17 PSI

PRESSURE LOSS CALCULATIONS POINT OF CONNECTION 'C'

CALCULATIONS ARE BASED UPON AN ASSUMED FLOW OF 30 GALLONS PER MINUTE.
IT IS UNDERSTOOD THAT WATER PRESSURE IS 90 PSI AT THE DEDICATED IRRIGATION WATER METER.

PRESSURE LOSS THROUGH A 2" WATER METER	-7 PSI
PRESSURE LOSS THROUGH THE BACKFLOW PREVENTER (2")	-13.0 PSI
PRESSURE LOSS THROUGH THE FLOW SENSING/ MASTER VALVE ASSEMBLY	-5.0 PSI
PRESSURE LOSS THROUGH IRRIGATION MAINLINE (1,045 LF OF 3" SCH 40 PVC)	-2.2 PSI
PRESSURE LOSS DUE TO ELEVATION CHANGE (10 FEET RISE X .433)	-4.33 PSI
PRESSURE LOSS THROUGH DRIP CONTROL ZONE KITS	-10.0 PSI
PRESSURE LOSS THROUGH LATERAL LINE	-3.0 PSI
PRESSURE LOSS THROUGH FITTINGS	-5.0 PSI
TOTAL PRESSURE LOSS	-46.77 PS
OPERATING PRESSURE	43.23 PSI

PRESSURE LOSS CALCULATIONS POINT OF CONNECTION 'B'

CALCULATIONS ARE BASED UPON AN ASSUMED FLOW OF 30 GALLONS PER MINUTE.
IT IS UNDERSTOOD THAT WATER PRESSURE IS 90 PSI AT THE DEDICATED IRRIGATION WATER METER.

PRESSURE LOSS THROUGH A 2" WATER METER	-7 PSI
PRESSURE LOSS THROUGH THE BACKFLOW PREVENTER (2")	-13.0 PSI
PRESSURE LOSS THROUGH THE FLOW SENSING/ MASTER VALVE ASSEMBLY	-5.0 PSI
PRESSURE LOSS THROUGH IRRIGATION MAINLINE (1,045 LF OF 3" SCH 40 PVC)	-1.1 PSI
PRESSURE LOSS DUE TO ELEVATION CHANGE (2.95 FEET RISE X .433)	+1.3 PSI
PRESSURE LOSS THROUGH DRIP CONTROL ZONE KITS	-10.0 PSI
PRESSURE LOSS THROUGH LATERAL LINE	-3.0 PSI
PRESSURE LOSS THROUGH FITTINGS	-5.0 PSI
TOTAL PRESSURE LOSS	-62.38 PSI
OPERATING PRESSURE	27.7 PSI

Designed:	JBB	Approved:		Revision		Date		By	
Drawn By:	JBB/ TDB	Date:	12-6-2023						
Checked:	JBB								

CITY OF CHICO
PUBLIC WORKS DEPARTMENT



BRUCE ROAD RECONSTRUCTION
LANDSCAPE IRRIGATION PLAN- REFERENCE SHEET

BISHO FIRTH LANDSCAPE ARCHITECTS, INC.
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Project Number:	16038	Drawing Number:	L-3.00
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 157 of 182

BFLA Project Number: 2414

Title:

Plan Status: ☐ Conceptual, ☐ Approved Final, ☐ Record

Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB					
Checked:	JBB	Date:	12-6-2023			

CITY OF CHICO
PUBLIC WORKS DEPARTMENT

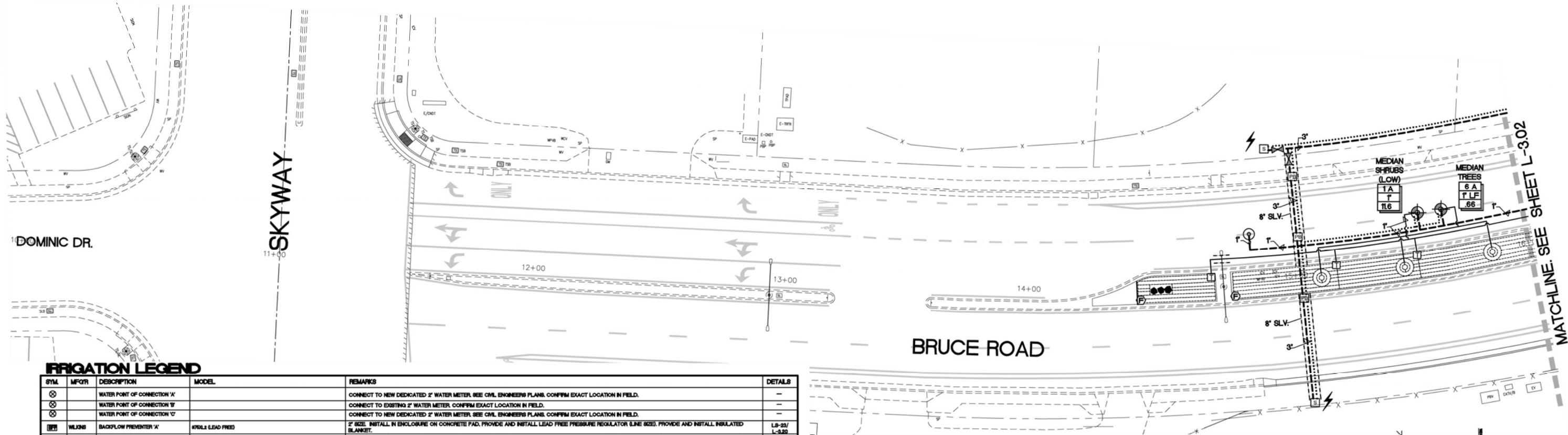


BRUCE ROAD RECONSTRUCTION
LANDSCAPE IRRIGATION PLAN BRUCE ROAD STA. 10+00 TO 16+00

Project Number:	16038	Drawing Number:	L-3.01
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 158 of 182

BFLA Project Number: 2414

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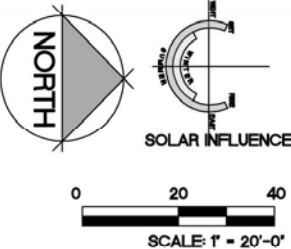
IRRIGATION LEGEND

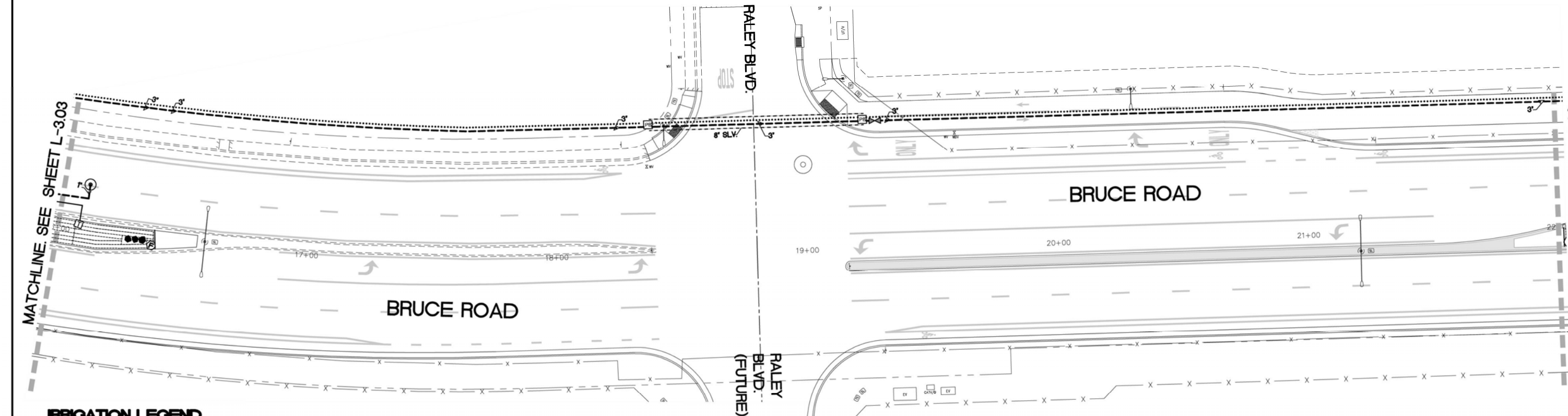
SYM	MFOR	DESCRIPTION	MODEL	REMARKS	DETAILS
		WATER POINT OF CONNECTION 'A'		CONNECT TO NEW DEDICATED 2" WATER METER. SEE CIVIL ENGINEERS PLANS. CONFIRM EXACT LOCATION IN FIELD.	---
		WATER POINT OF CONNECTION 'B'		CONNECT TO EXISTING 2" WATER METER. CONFIRM EXACT LOCATION IN FIELD.	---
		WATER POINT OF CONNECTION 'C'		CONNECT TO NEW DEDICATED 2" WATER METER. SEE CIVIL ENGINEERS PLANS. CONFIRM EXACT LOCATION IN FIELD.	---
	WJUGS	BACKFLOW PREVENTER 'A'	470LLS LEAD FREE	2" SIZE. INSTALL IN ENCLOSURE ON CONCRETE PAD. PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE). PROVIDE AND INSTALL INSULATED BLANKET.	L-9-23/ L-3.20
	EXISTING	BACKFLOW PREVENTER 'B'	EXISTING (TO REMAIN)	2" SIZE (VERIFY). VERIFY THAT CERTIFICATION IS CURRENT. FIELD VERIFY SIZE. I PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE) IN THE EVENT THAT PRESSURE EXCEEDS 70 PSI. PROVIDE AND INSTALL INSULATED BLANKET.	---
	WJUGS	BACKFLOW PREVENTER 'C'	470LLS LEAD FREE	2" SIZE. INSTALL IN ENCLOSURE ON CONCRETE PAD. PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE). PROVIDE AND INSTALL INSULATED BLANKET.	L-9-24/ L-3.20
	FLMMEC HUNTER	FLOW SENSING / MASTER VALVE ASSEMBLY 'A'	08200 (LINE SIZE/ ULTRASONIC) WITH BL-4309 DECODER AND ICV 301 VALVE WITH BP-5201 MY DECODER	INSTALL AS PER MANUFACTURER'S SPECIFICATIONS	L-9-27/ L-3.20
	EXISTING	FLOW SENSING / MASTER VALVE ASSEMBLY 'B'	08200 (LINE SIZE/ ULTRASONIC) WITH BL-4309 DECODER (OR BL-4309 1" ULTRASONIC) AND A BP-5201 MY DECODER AT VALVE	CONTRACTOR RESPONSIBLE TO RE-PROGRAM FLOW SENSING SHUT OFF AT THE CONTROLLER PER THE PARAMETERS OF THE NEW IRRIGATION SYSTEM	---
	FLMMEC HUNTER	FLOW SENSING / MASTER VALVE ASSEMBLY 'C'	08200 (LINE SIZE/ ULTRASONIC) WITH BL-4309 DECODER AND ICV 301 VALVE WITH BP-5201 MY DECODER	INSTALL AS PER MANUFACTURER'S SPECIFICATIONS	L-9-27/ L-3.20
	TESCO	ELECTRICAL POINT OF CONNECTION 'A'	28-000		L-9-28/ L-3.20
	---	ELECTRICAL POINT OF CONNECTION 'B'	TE INTO POWER SUPPLY FOR EXISTING CONTROLLER. VERIFY EXACT CONDITIONS IN FIELD.		L-9-28/ L-3.20
	TESCO	ELECTRICAL POINT OF CONNECTION 'C'	28-000		L-9-28/ L-3.20
	BASELINE STRONGBOX	CONTROLLER 'A'	BASESTATION 3200 SITE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL ENCLOSURE BL-3200-SP-1M-210. COMMUNICATION OPTION -CM CELLULAR MODEM INCLUDE 5 YEAR CENTRAL CONTROL PLATFORM PLAN BL-3200-SP-1M-210	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO SALGADO, EWING, CHICO 530-588-4678). GROUND PER ASIC EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDESTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	L-9-40/ L-3.20
	BASELINE STRONGBOX	CONTROLLER 'B'	BASESTATION 3200 SITE MANAGEMENT IRRIGATION CONTROLLER IN HEAVY DUTY STAINLESS STEEL ENCLOSURE BL-3200-SP-1M-210. COMMUNICATION OPTION -CM CELLULAR MODEM INCLUDE 5 YEAR CENTRAL CONTROL PLATFORM PLAN BL-3200-SP-1M-210	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH WIRELESS INTERNET CONNECTION AND SATELLITE CONTROLLERS, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO SALGADO, EWING, CHICO 530-588-4678). GROUND PER ASIC EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDESTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	L-9-40/ L-3.20
	BASELINE STRONGBOX	CONTROLLER 'C'	BASESTATION 3200 SITE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL ENCLOSURE BL-3200-SP-1M-210. COMMUNICATION OPTION -CM CELLULAR MODEM INCLUDE 5 YEAR CENTRAL CONTROL PLATFORM PLAN BL-3200-SP-1M-210	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO SALGADO, EWING, CHICO 530-588-4678). GROUND PER ASIC EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDESTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	L-9-40/ L-3.20
	IBICO	ISOLATION VALVE	T-10-LF	LINE SIZE VALVE MUST BE LEAD FREE.	L-9-28/ L-3.20
	HUNTER	QUICK COUPLER VALVE	HD-46L2C	INSTALL A MINIMUM OF 6 FEET AWAY FROM TREE PLANTINGS EXCEPT WHERE OTHERWISE NOTED. PROVIDE OWNER WITH 2 COMPATIBLE KEYS PRIOR TO CLOSEOUT.	L-9-28/ L-3.21
	HUNTER/ BASELINE	DWP CONTROL ZONE KIT	ABOVE 30.00' TO 132.00' 1/2" 1-LF BELOW 30.00' 1/2" 1-LF		L-9-30/ L-3.21
	---	SINGLE STATION DECODER	BASELINE # BL-4301		---
	---	PRESSURE MAINLINE		PVC SCHEDULE 40	L-9-19/ L-9-20/ L-9-21 + L-9-22/ L-3.21
	---	NON-PRESSURE LATERAL PIPE		PVC SCHEDULE 40	---
	---	CONTROL WIRE CHASE	1/2" BLUE WIRE DOUBLE JACKETED 142, NON-TWISTED.	1/2" DIAM SCHEDULE 40 PVC CONDUIT WITH HEAVY DUTY DECODER CABLE. USE BLUE JACKET FOR CONTROLLER A, RED JACKET FOR CONTROLLER B, AND GREEN JACKET FOR CONTROLLER C.	---
	---	IRRIGATION SLEEVE		PVC SCHEDULE 40, SIZE PER PLAN	---
	HUNTER	PRESSURE COMPENSATING DRIPPERLINE	HDL-06-18-PC WITH 800-WRAP	INSTALL AT 18" LINE SPACING	L-9-38 + L-9-40/ L-3.22
	HUNTER	TRANSITION TO DWP	FLD-075-18TERR	INSTALL IN CARBON 910 VALVE BOX OR EQUAL. SET ELBOW A MINIMUM OF 1" BELOW TOP OF BOX	L-9-39/ L-3.22
	HUNTER	FLUSH VALVE	FLD-0V	INSTALL IN VALVE BOX AS PER PLANS AND DETAILS	L-9-43/ L-3.22
	HUNTER	DRIPPERLINE AT TREES	HIS-06 AND HDL-06-18	TWO EMITTERS PER TREE. SEE DETAIL.	L-9-44/ L-3.22
	---	PULL BOX		INSTALL IN CARBON 910 VALVE BOX OR EQUAL. SET ELBOW A MINIMUM OF 1" BELOW TOP OF BOX	L-9-39/ L-3.22
	BASELINE/ PAGE	CONTROLLER GROUNDING/ SURGE ARRESTORS	PAKESPEC GROUND PLATES 1023000 BASELINE SURGE ARRESTORS BL-LA01	INSTALL 1 WITHIN 25 FEET OF CONTROLLER AND EVERY 600 FEET AND DECODER CABLE ENDS.	---
	---	STUB OUT MAINLINE AND CONDUIT		STUB UP LATERAL LINE IN A CARBON 910 VALVE BOX	L-9-25/ L-3.22

1	VALVE @ CONTROLLER STATION
1-1/2"	VALVE SIZE
28.4	FLOW IN GALLONS PER MINUTE

IRRIGATION NOTES

- THIS SYSTEM IS DESIGNED FOR A MAXIMUM DEMAND OF 30 GPM (QUICK COUPLER VALVE). SEE PRESSURE LOSS CALCULATION, SHEET L-3.00 FOR ANTICIPATED PRESSURE AT WATER METERS. CONTACT THE LANDSCAPE ARCHITECT IN THE EVENT THAT FIELD TESTED PRESSURES ARE LESS THAN STATED, PRIOR TO CONSTRUCTION.
- THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH. ADJUST CLOCK AS REQUIRED TO ACHIEVE THIS GOAL AS REQUIRED BY THE TIME OF YEAR.
- IT IS THE RESPONSIBILITY OF THE LANDSCAPE MAINTENANCE CONTRACTOR AND/OR OWNER TO PROGRAM THE IRRIGATION CONTROLLERS TO PROVIDE THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOUNDS AND SLOPES, AND SUN, SHADE AND WIND EXPOSURES.
- THIS DRAWING IS DIAGRAMMATIC. IRRIGATION COMPONENTS SHOWN BENEATH PAVING OR PLANTINGS ARE FOR GRAPHIC CLARITY ONLY. PLACE ALL PIPING, VALVES, AND OTHER IRRIGATION COMPONENTS WITHIN THE ADJACENT PLANTER EXCEPT WHERE PIPES CROSS PAVING. PLACE PIPING TO PREVENT CONFLICT WITH SUBSEQUENT PLANTING. REFER TO PLANTING PLAN.
- CONTRACTORS/DEVELOPERS ARE RESPONSIBLE TO SUBMIT A FINAL LANDSCAPE PACKAGE INCLUDING AS-BUILTS, PRODUCT AND FIXTURES SUBMITTAL WITH ASSOCIATED MODEL NUMBERS, MANUFACTURER INFORMATION/SPECIFICATIONS, CONTROLLER IRRIGATION VALVE ID AND DESCRIPTION LIST, PROGRAM(S), AND LAMINATED 1"x12" COLOR-CODED VALVE CHART(S). DIGITAL COPIES OF SUBMITTALS AND MANUALS IS ACCEPTABLE (WITH THE EXCEPTION OF THE LAMINATED VALVE CHART).
- TRENCH ALL MAIN LINES TO PROVIDE A MINIMUM OF 18" COVER. TRENCH ALL LATERAL LINES TO PROVIDE A MINIMUM COVER OF 12". TRENCH ALL MAIN OR LATERAL LINES TO PROVIDE A MINIMUM COVER OF 24" WHERE CROSSING UNDER DRIVEWAY PAVEMENT AND PLACE WITHIN A SCHEDULE 40 SLEEVE, SIZE AS SHOWN.
- INSTALL SLEEVES WHERE SHOWN ON PLAN AND AT ALL LOCATIONS WHERE IRRIGATION PIPES CROSS BENEATH PAVING, PRIOR TO THE PLACEMENT OF PAVING. COORDINATE WITH PAVING CONTRACTOR.
- ALL REMOTE CONTROL VALVES, QUICK COUPLER VALVES, AND FLUSH VALVES SHALL BE INSTALLED IN PLANTER AND IN VALVE BOXES.
- CONTRACTOR IS RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANT MATERIAL. INSTALL ADDITIONAL EMITTERS OR ADJUST SPACING AS REQUIRED.
- MAIN LINE PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALLOUT TO BE 1" PIPE (MAIN LINE PIPE SIZE DIAMETER NOT TO BE LESS THAN 1"). LATERAL PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALLOUT TO BE 3/4" PIPE (LATERAL PIPE SIZE DIAMETER NOT TO BE LESS THAN 3/4").
- IT IS IMPORTANT THAT BOTH THE CONTROLLER AND THE DECODERS ARE GROUNDED TO GROUND RODS OR PLATES WITH LESS THAN 10 OHMS RESISTANCE. THE GROUND SHOULD ALWAYS BE MEASURED WITH A GROUND RESISTANCE METER. A "CLAMP ON METER" CANNOT BE USED FOR GROUND MEASUREMENT, SINCE THIS IS AN ISOLATED SYSTEM. GROUND RESISTANCE MEASUREMENTS SHOULD BE PERFORMED WITH A "FALL OFF POTENTIAL" TYPE METER IN DISCODER SYSTEMS. CONTRACTOR IS RESPONSIBLE TO PROVIDE THE OWNER AND THE CITY OF CHICO WITH A CERTIFIED GROUNDING REPORT SHOWING THE RESULTS OF THE TEST.
- CONTRACTOR IS RESPONSIBLE TO PROVIDE, INSTALL, AND HAVE CERTIFIED FULLY FUNCTIONAL BASELINE CONTROLLERS. CONNECT CONTROLLERS TO THE CITY CENTRAL CONTROL. CONTRACTOR IS RESPONSIBLE FOR WORKING WITH CITY TO MAKE CONNECTION.
- SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.





IRRIGATION LEGEND

SYM.	MFQR	DESCRIPTION	MODEL	REMARKS	DETAILS
⊗		WATER POINT OF CONNECTION 'A'		CONNECT TO NEW DEDICATED 2" WATER METER. SEE CIVIL ENGINEERS PLANS. CONFIRM EXACT LOCATION IN FIELD.	—
⊗		WATER POINT OF CONNECTION 'B'		CONNECT TO EXISTING 2" WATER METER. CONFIRM EXACT LOCATION IN FIELD.	—
⊗		WATER POINT OF CONNECTION 'C'		CONNECT TO NEW DEDICATED 2" WATER METER. SEE CIVIL ENGINEERS PLANS. CONFIRM EXACT LOCATION IN FIELD.	—
BP		WILKINS BACKFLOW PREVENTER 'A'	#706LS LEAD FREE	2" SIZE. INSTALL IN ENCLOSURE ON CONCRETE PAD. PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE). PROVIDE AND INSTALL INSULATED BLANKET.	LS-25/ L-3.20
BP		EXISTING BACKFLOW PREVENTER 'B'	EXISTING (TO REMAIN)	2" SIZE (VERIFY). VERIFY THAT CERTIFICATION IS CURRENT. FIELD VERIFY SIZE. I PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE) IN THE EVENT THAT PRESSURE EXCEEDS 70 PSI. PROVIDE AND INSTALL INSULATED BLANKET.	—
BP		WILKINS BACKFLOW PREVENTER 'C'	#706LS LEAD FREE	2" SIZE. INSTALL IN ENCLOSURE ON CONCRETE PAD. PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE). PROVIDE AND INSTALL INSULATED BLANKET.	LS-25/ L-3.20
FM		FLOWMETER / MASTER VALVE ASSEMBLY 'A'	Q8200 (LINE SIZE/ ULTRASONIC) WITH BL-8200 DECODER AND KEY BOX VALVE WITH BS-8201 MY DECODER	INSTALL AS PER MANUFACTURER'S SPECIFICATIONS	LS-27/ L-3.20
FM		EXISTING FLOWMETER / MASTER VALVE ASSEMBLY 'B'	EXISTING (RETRACT) WITH A BARELINE BL-8200 DECODER (OR BL-8200 F ULTRASONIC) AND A BS-8201 MY DECODER AT VALVE	CONTRACTOR RESPONSIBLE TO RE-PROGRAM FLOW SENSING SHUT OFF AT THE CONTROLLER PER THE PARAMETERS OF THE NEW IRRIGATION SYSTEM	—
FM		FLOWMETER / MASTER VALVE ASSEMBLY 'C'	Q8200 (LINE SIZE/ ULTRASONIC) WITH BL-8200 DECODER AND KEY BOX VALVE WITH BS-8201 MY DECODER	INSTALL AS PER MANUFACTURER'S SPECIFICATIONS	LS-27/ L-3.20
E		TEBICO ELECTRICAL POINT OF CONNECTION 'A'	20-000		LS-46/ L-3.20
E		— ELECTRICAL POINT OF CONNECTION 'B'	—	TE INTO POWER SUPPLY FOR EXISTING CONTROLLER. VERIFY EXACT CONDITIONS IN FIELD.	LS-46/ L-3.20
E		TEBICO ELECTRICAL POINT OF CONNECTION 'C'	20-000		LS-46/ L-3.20
C		BASELINE STRONGBOX CONTROLLER 'A' IN HEAVY DUTY STAINLESS STEEL ENCLOSURE	BASESTATION 3200 RTE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL ENCLOSURE BL-3200-EB-WM-250. COMMUNICATION OPTION -CM- CELLULAR MODEM INCLUDE 5 YEAR CENTRAL CONTROL PLATFORM PLAN BL-3200-PLUS-5Y	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO SALGIAN, EWING, CHICO: 530-588-4678). GROUND PER ASCE EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDESTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	LS-46/ L-3.20
C		BASELINE STRONGBOX CONTROLLER 'B' IN HEAVY DUTY STAINLESS STEEL ENCLOSURE	BASESTATION 3200 RTE MANAGEMENT IRRIGATION CONTROLLER IN HEAVY DUTY PEDESTAL MOUNT ENCLOSURE BL-3200-EB-WM-250 IN P-1000 PEDESTAL COMMUNICATION OPTION -CM- CELLULAR MODEM. CONVENTIONAL WIRE STATIONS ARE REQUIRED TO REMOVE EXISTING VALVES. SELECT -RSE, -RSM, -RSM, OR -RSM AS NEEDED. INCLUDE 5 YEAR CENTRAL CONTROL PLATFORM FOR SUBSTATIONS. BL-3200-SUBST-5Y	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH WIRELESS INTERNET CONNECTION AND SATELLITE CONTROLLERS, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO SALGIAN, EWING, CHICO: 530-588-4678). GROUND PER ASCE EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDESTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	LS-46/ L-3.20
C		BASELINE STRONGBOX CONTROLLER 'C' IN HEAVY DUTY STAINLESS STEEL ENCLOSURE	BASESTATION 3200 RTE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL ENCLOSURE BL-3200-EB-WM-250. COMMUNICATION OPTION -CM- CELLULAR MODEM INCLUDE 5 YEAR CENTRAL CONTROL PLATFORM PLAN BL-3200-PLUS-5Y	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO SALGIAN, EWING, CHICO: 530-588-4678). GROUND PER ASCE EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDESTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	LS-46/ L-3.20
IS		ISOLATION VALVE	T-15-LF	LINE SIZE VALVE MUST BE LEAD FREE.	LS-26/ L-3.21
HC		HUNTER QUICK COUPLER VALVE	HO-44/20	INSTALL A MINIMUM OF 6 FEET AWAY FROM THESE PLANTINGS EXCEPT WHERE OTHERWISE NOTED. PROVIDE OWNER WITH 2 COMPATIBLE KEYS PRIOR TO CLOSEOUT.	LS-26/ L-3.21
HC		HUNTER DRIP CONTROL ZONE KIT	ABOVE 30 GPM: K2Z 1-F 1.7 TO 30 GPM: K2Z 1-LF BELOW 1.7 GPM: K2Z 1-LF	—	LS-30/ L-3.21
		SINGLE STATION DECODER	BARELINE 8 BL-5201		
---		PRESSURE MAINLINE		PVC SCHEDULE 40	
---		NON-PRESSURE LATERAL PIPE		PVC SCHEDULE 40	
---		CONTROL WIRE CHASE	1/2" BLUE WIRE DOUBLE JACKETED 1/2" NON-TWISTED.	1-1/2" DIAM SCHEDULE 40 PVC CONDUIT WITH HEAVY DUTY DECODER CABLE. USE BLUE JACKET FOR CONTROLLER A, RED JACKET FOR CONTROLLER B, AND GREEN JACKET FOR CONTROLLER C.	LS-19, LS-20, LS-21 + LS-22/ L-3.21
---		IRRIGATION SLEEVE		PVC SCHEDULE 40. SIZE PER PLAN	
H		HUNTER PRESSURE COMPENSATING DRIPPERS	HDL-06-16-PC WITH ECO-WRAP	INSTALL AT 8" LINE SPACING	LS-38 + LS-40/ L-3.22
T		HUNTER TRANSITION TO DRIP	PLD-075-10TITE	INSTALL IN CARBON 90 VALVE BOX OR EQUAL SET ELBOW A MINIMUM OF 1' BELOW TOP OF BOX	LS-39/ L-3.22
F		HUNTER FLUSH VALVE	PLD-07	INSTALL IN VALVE BOX AS PER PLANS AND DETAILS	LS-43/ L-3.22
H		HUNTER DRIPPERS AT TREES	HEB-06 AND HDL-06-2	TWO EMITTERS PER TREE. SEE DETAIL.	LS-44/ L-3.22
DB		PULL BOX		INSTALL IN CARBON 90 VALVE BOX OR EQUAL SET ELBOW A MINIMUM OF 1' BELOW TOP OF BOX	LS-45/ L-3.22
---		BASELINE/ FAKE CONTROLLER GROUNDING/ BURGE ARRESTORS	FAKESPEC GROUND PLATE 1250000 BASELINE BURGE ARRESTORS BL-LA01	INSTALL 1 WITHIN 25 FEET OF CONTROLLER AND EVERY 600 FEET AND DECODER CABLE ENDS.	—
---		STUB OUT MAINLINE AND CONDUIT		STUB UP LATERAL LINE IN A CARBON 90 VALVE BOX	LS-26/ L-3.22
SYMBOLS					
1	---	VALVE @ CONTROLLER STATION			
1/2"	---	VALVE SIZE			
28.4	---	FLOW IN GALLONS PER MINUTE			

IRRIGATION NOTES

- THIS SYSTEM IS DESIGNED FOR A MAXIMUM DEMAND OF 30 GPM (QUICK COUPLER VALVE). SEE PRESSURE LOSS CALCULATION, SHEET L-300 FOR ANTICIPATED PRESSURE AT WATER METERS. CONTACT THE LANDSCAPE ARCHITECT IN THE EVENT THAT FIELD TESTED PRESSURES ARE LESS THAN STATED, PRIOR TO CONSTRUCTION.
- THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH. ADJUST CLOCK AS REQUIRED TO ACHIEVE THIS GOAL AS REQUIRED BY THE TIME OF YEAR.
- IT IS THE RESPONSIBILITY OF THE LANDSCAPE MAINTENANCE CONTRACTOR AND/OR OWNER TO PROGRAM THE IRRIGATION CONTROLLERS TO PROVIDE THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOUNDS AND SLOPES, AND SUN, SHADE AND WIND EXPOSURES.
- THIS DRAWING IS DIAGNOSTIC. IRRIGATION COMPONENTS SHOWN BENEATH PAVING OR PLANTINGS ARE FOR GRAPHIC CLARITY ONLY. PLACE ALL PIPING, VALVES, AND OTHER IRRIGATION COMPONENTS WITHIN THE ADJACENT PLANTER EXCEPT WHERE PIPES CROSS PAVING. PLACE PIPING TO PREVENT CONFLICT WITH SUBSEQUENT PLANTING. REFER TO PLANTING PLAN.
- CONTRACTORS/DEVELOPERS ARE RESPONSIBLE TO SUBMIT A FINAL LANDSCAPE PACKAGE INCLUDING AS-BUILTS, PRODUCT AND FIXTURES SUBMITTAL WITH ASSOCIATED MODEL NUMBERS MANUFACTURER INFORMATION/SPECIFICATIONS, CONTROLLER IRRIGATION VALVE ID AND DESCRIPTION LIST, PROGRAMS, AND LAMINATED 8 1/2" COLOR-CODED VALVE CHARTS. DIGITAL COPIES OF SUBMITTALS AND MANUALS IS ACCEPTABLE (WITH THE EXCEPTION OF THE LAMINATED VALVE CHART).
- TRENCH ALL MAIN LINES TO PROVIDE A MINIMUM OF 18" COVER. TRENCH ALL LATERAL LINES TO PROVIDE A MINIMUM COVER OF 12". TRENCH ALL MAIN OR LATERAL LINES TO PROVIDE A MINIMUM COVER OF 24" WHERE CROSSING UNDER DRIVEWAY PAVEMENT AND PLACE WITHIN A SCHEDULE 40 SLEEVE, SIZE AS SHOWN.
- INSTALL SLEEVES WHERE SHOWN ON PLAN AND AT ALL LOCATIONS WHERE IRRIGATION PIPES CROSS BENEATH PAVING, PRIOR TO THE PLACEMENT OF PAVING. COORDINATE WITH PAVING CONTRACTOR.
- ALL REMOTE CONTROL VALVES, QUICK COUPLER VALVES, AND FLUSH VALVES SHALL BE INSTALLED IN PLANTER AND IN VALVE BOXES.
- CONTRACTOR IS RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANT MATERIAL. INSTALL ADDITIONAL EMITTERS OR ADJUST SPACING AS REQUIRED.
- MAIN LINE PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALLOUT TO BE 1" PIPE (MAIN LINE PIPE SIZE DIAMETER NOT TO BE LESS THAN 1"). LATERAL PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALLOUT TO BE 3/4" PIPE (LATERAL PIPE SIZE DIAMETER NOT TO BE LESS THAN 3/4").
- IT IS IMPORTANT THAT BOTH THE CONTROLLER AND THE DECODERS ARE GROUNDED TO GROUND RODS OR PLATES WITH LESS THAN 10 OHMS RESISTANCE. THE GROUND SHOULD ALWAYS BE MEASURED WITH A GROUND RESISTANCE METER. A "CLAMP ON METER" CANNOT BE USED FOR GROUND MEASUREMENT, SINCE THIS IS AN ISOLATED SYSTEM. GROUND RESISTANCE MEASUREMENTS SHOULD BE PERFORMED WITH A "SPALL OF POTENTIAL" TYPE METER IN DISCOVER SYSTEMS. CONTRACTOR IS RESPONSIBLE TO PROVIDE THE OWNER AND THE CITY OF CHICO WITH A CERTIFIED GROUNDING REPORT SHOWING THE RESULTS OF THE TEST.
- CONTRACTOR IS RESPONSIBLE TO PROVIDE, INSTALL, AND HAVE CERTIFIED FULLY FUNCTIONAL BASELINE CONTROLLERS. CONNECT CONTROLLERS TO THE CITY CENTRAL CONTROL. CONTRACTOR IS RESPONSIBLE FOR WORKING WITH CITY TO MAKE CONNECTION.
- SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB					
Checked:	JBB	Date:	12-6-2023			

CITY OF CHICO
PUBLIC WORKS DEPARTMENT



BRUCE ROAD RECONSTRUCTION
LANDSCAPE IRRIGATION PLAN BRUCE ROAD STA. 16+00 TO 22+00

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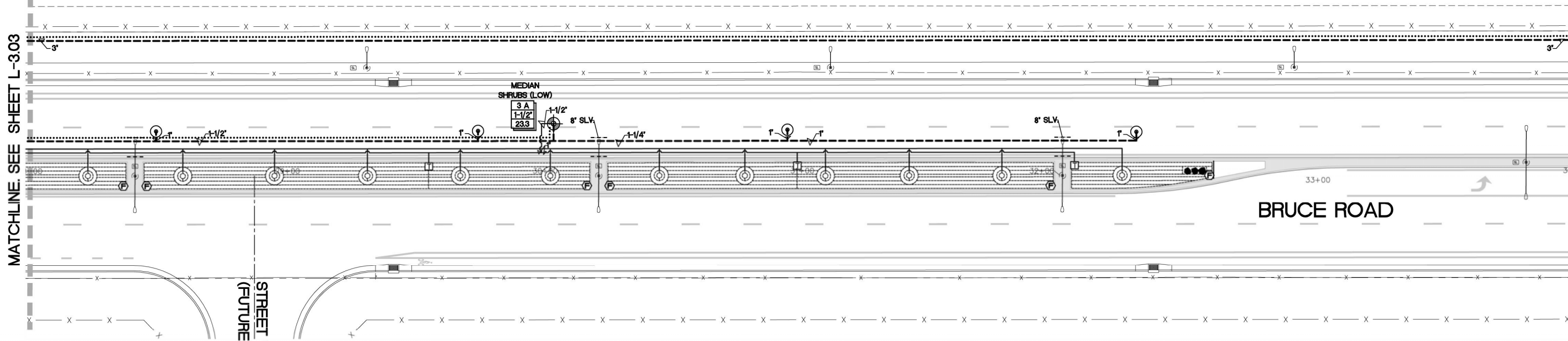


BFLA Project Number: 2414

Project Number:	16038	Drawing Number:	L-3.02
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 159 of 182

MATCHLINE. SEE SHEET L-303

MATCHLINE. SEE SHEET L-305



IRRIGATION LEGEND

SYMBOL	DESCRIPTION	MODEL	REMARKS	DETAILS
	WATER POINT OF CONNECTION 'A'		CONNECT TO NEW DEDICATED 2" WATER METER, SEE CIVIL ENGINEERS PLANS, CONFIRM EXACT LOCATION IN FIELD.	—
	WATER POINT OF CONNECTION 'B'		CONNECT TO EXISTING 2" WATER METER, CONFIRM EXACT LOCATION IN FIELD.	—
	WATER POINT OF CONNECTION 'C'		CONNECT TO NEW DEDICATED 2" WATER METER, SEE CIVIL ENGINEERS PLANS, CONFIRM EXACT LOCATION IN FIELD.	—
	BACKFLOW PREVENTER 'A'	1700LZ LEAD FREE	2" SIZE. INSTALL IN ENCLOSURE ON CONCRETE PAD. PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE). PROVIDE AND INSTALL INSULATED BLANKET.	L8-26/ L-320
	EXISTING BACKFLOW PREVENTER 'B'	EXISTING (TO REMAIN)	2" SIZE (VERIFY). VERIFY THAT CERTIFICATION IS CURRENT. FIELD VERIFY SIZE. 1 PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE) IN THE EVENT THAT PRESSURE EXCEEDS 70 PSI. PROVIDE AND INSTALL INSULATED BLANKET.	—
	BACKFLOW PREVENTER 'C'	1700LZ LEAD FREE	2" SIZE. INSTALL IN ENCLOSURE ON CONCRETE PAD. PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE). PROVIDE AND INSTALL INSULATED BLANKET.	L8-26/ L-320
	FLOWMETER / MASTER VALVE ASSEMBLY 'A'	08000 (LINE SIZE) / ULTRASONIC) WITH BL-6000 DECODER AND KEY 301 VALVE WITH B9-6001 MY DECODER	INSTALL AS PER MANUFACTURER'S SPECIFICATIONS	L8-27/ L-320
	EXISTING FLOWMETER / MASTER VALVE ASSEMBLY 'B'	EXISTING (RETIROFIT WITH A B9-6001 MY DECODER OR BL-6000 MY DECODER) AND A B9-6001 MY DECODER AT VALVE	CONTRACTOR RESPONSIBLE TO RE-PROGRAM FLOW SENSING SHUT OFF AT THE CONTROLLER PER THE PARAMETERS OF THE NEW IRRIGATION SYSTEM	—
	FLOWMETER / MASTER VALVE ASSEMBLY 'C'	08000 (LINE SIZE) / ULTRASONIC) WITH BL-6000 DECODER AND KEY 301 VALVE WITH B9-6001 MY DECODER	INSTALL AS PER MANUFACTURER'S SPECIFICATIONS	L8-27/ L-320
	ELECTRICAL POINT OF CONNECTION 'A'	28-000		L8-40/ L-320
	ELECTRICAL POINT OF CONNECTION 'B'	28-000	TE INTO POWER SUPPLY FOR EXISTING CONTROLLER. VERIFY EXACT CONDITIONS IN FIELD.	L8-40/ L-320
	ELECTRICAL POINT OF CONNECTION 'C'	28-000		L8-40/ L-320
	CONTROLLER 'A'	BASESTATION 3200 SITE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL ENCLOSURE (BL-4000-EB-WM-2N). COMMUNICATION OPTION - "CM" CELLULAR MODEL INCLUDES 5 YEAR CENTRAL CONTROL PLATFORM PLAN BL-BMW2-PLUS-5Y	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO SALJUAN, EWING, CHICO 530-588-4670, GROUND PER ASIC EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDESTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	L8-40/ L-320
	CONTROLLER 'B'	BASESTATION 3200 SITE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL ENCLOSURE (BL-4000-EB-WM-2N). COMMUNICATION OPTION - "CM" CELLULAR MODEL INCLUDES 5 YEAR CENTRAL CONTROL PLATFORM PLAN BL-BMW2-PLUS-5Y	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO SALJUAN, EWING, CHICO 530-588-4670, GROUND PER ASIC EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDESTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	L8-40/ L-320
	CONTROLLER 'C'	BASESTATION 3200 SITE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL ENCLOSURE (BL-4000-EB-WM-2N). COMMUNICATION OPTION - "CM" CELLULAR MODEL INCLUDES 5 YEAR CENTRAL CONTROL PLATFORM PLAN BL-BMW2-PLUS-5Y	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO SALJUAN, EWING, CHICO 530-588-4670, GROUND PER ASIC EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDESTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	L8-40/ L-320
	ISOLATION VALVE	T-10-LF	LINE SIZE. VALVE MUST BE LEAD FREE.	L8-26/ L-320
	QUICK COUPLER VALVE	HQ-44JG	INSTALL A MINIMUM OF 8 FEET AWAY FROM TREE PLANTINGS EXCEPT WHERE OTHERWISE NOTED. PROVIDE OWNER WITH 2 COMPATIBLE KEYS PRIOR TO CLOSEOUT.	L8-26/ L-320
	DRIP CONTROL ZONE KIT	ABOVE 30 GPM, 1/2" UP 3 TO 30 GPM, 1/2" T-L-F BELOW 3 GPM, 1/2" T-L-F BASELINE 9 BL-6001	—	L8-30/ L-320
	SINGLE STATION DECODER	BASELINE 9 BL-6001		—
	PRESSURE MAINLINE		PVC SCHEDULE 40	—
	NON-PRESSURE LATERAL PIPE		PVC SCHEDULE 40	L8-18, L8-20, L8-21, + L8-22/ L-320
	CONTROL WIRE CHASE	1/2" BULK WIRE DOUBLE JACKETED 1/2" NON-TWISTED.	1-1/2" DIAM SCHEDULE 40 PVC CONDUIT WITH HEAVY DUTY DECODER CABLE USE BLUE JACKET FOR CONTROLLER B, AND GREEN JACKET FOR CONTROLLER C.	—
	IRRIGATION RISER		PVC SCHEDULE 40. SIZE PER PLAN	L8-26 + L8-40/ L-320
	PRESSURE COMPENSATING DRIP LINE	HDL-06-16-PC WITH ECO-WRAP	INSTALL AT 18" LINE SPACING	—
	TRANSITION TO DRIP	FLD-075-10TIE	INSTALL IN CARBON 90 VALVE BOX OR EQUAL SET ELBOW A MINIMUM OF 1" BELOW TOP OF BOX	L8-30/ L-320
	FLUSH VALVE	FLD-5V	INSTALL IN VALVE BOX AS PER PLANS AND DETAILS	L8-43/ L-320
	DRIPPERLINE AT TREES	H2B-05 AND H4B-04-S	TWO EMITTERS PER TREE. SEE DETAIL.	L8-44/ L-320
	PULL BOX		INSTALL IN CARBON 90 VALVE BOX OR EQUAL SET ELBOW A MINIMUM OF 1" BELOW TOP OF BOX	L8-43/ L-320
	CONTROLLER GROUNDING / SURGE ARRESTORS	PAKESPEC GROUND PLATE 1/2"SSMC BASELINE SURGE ARRESTORS BL-LA01	INSTALL 1 WITHIN 25 FEET OF CONTROLLER AND EVERY 500 FEET AND DECODER CABLE ENDS.	—
	STUB UP MAINLINE AND CONDUIT		STUB UP LATERAL LINE IN A CARBON 90 VALVE BOX	L8-26/ L-320

SYMBOLS

	VALVE (CONTROLLER STATION)
	VALVE SIZE
	FLOW IN GALLONS PER MINUTE

IRRIGATION NOTES

- THIS SYSTEM IS DESIGNED FOR A MAXIMUM DEMAND OF 30 GPM (QUICK COUPLER VALVE). SEE PRESSURE LOSS CALCULATION, SHEET L-300 FOR ANTICIPATED PRESSURE AT WATER METERS. CONTACT THE LANDSCAPE ARCHITECT IN THE EVENT THAT FIELD TESTED PRESSURES ARE LESS THAN STATED, PRIOR TO CONSTRUCTION.
- THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH. ADJUST CLOCK AS REQUIRED TO ACHIEVE THIS GOAL AS REQUIRED BY THE TIME OF YEAR.
- IT IS THE RESPONSIBILITY OF THE LANDSCAPE MAINTENANCE CONTRACTOR AND/OR OWNER TO PROGRAM THE IRRIGATION CONTROLLERS TO PROVIDE THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOUNDS AND SLOPES, AND SUN, SHADE AND WIND EXPOSURES.
- THIS DRAWING IS DIAGNOSTIC. IRRIGATION COMPONENTS SHOWN BENEATH PAVING OR PLANTINGS ARE FOR CLARITY ONLY. PLACE ALL PIPING, VALVES, AND OTHER IRRIGATION COMPONENTS WITHIN THE ADJACENT PLANTER EXCEPT WHERE PIPES CROSS PAVING. PLACE PIPING TO PREVENT CONFLICT WITH SUBSEQUENT PLANTING. REFER TO PLANTING PLAN.
- CONTRACTORS/DEVELOPERS ARE RESPONSIBLE TO SUBMIT A FINAL LANDSCAPE PACKAGE INCLUDING AS-BUILTS, PRODUCT AND FITURES SUBMITTAL WITH ASSOCIATED MODEL NUMBERS MANUFACTURER INFORMATION/SPECIFICATIONS, CONTROLLER IRRIGATION VALVE ID AND DESCRIPTION LIST, PROGRAMS, AND LAMINATED 11"X17" COLOR-CODED VALVE CHARTS. DIGITAL COPIES OF SUBMITTALS AND MANUALS IS ACCEPTABLE (WITH THE EXCEPTION OF THE LAMINATED VALVE CHART).
- TRENCH ALL MAIN LINES TO PROVIDE A MINIMUM OF 18" COVER. TRENCH ALL LATERAL LINES TO PROVIDE A MINIMUM COVER OF 12". TRENCH ALL MAIN OR LATERAL LINES TO PROVIDE A MINIMUM COVER OF 24" WHERE CROSSING UNDER DRIVEWAY PAVEMENT AND PLACE WITHIN A SCHEDULE 40 SLEEVE, SIZE AS SHOWN.
- INSTALL SLEEVES WHERE SHOWN ON PLAN AND AT ALL LOCATIONS WHERE IRRIGATION PIPES CROSS BENEATH PAVING, PRIOR TO THE PLACEMENT OF PAVING. COORDINATE WITH PAVING CONTRACTOR.
- ALL REMOTE CONTROL VALVES, QUICK COUPLER VALVES, AND FLUSH VALVES SHALL BE INSTALLED IN PLANTER AND IN VALVE BOXES.
- CONTRACTOR IS RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANT MATERIAL. INSTALL ADDITIONAL EMITTERS OR ADJUST SPACING AS REQUIRED.
- MAIN LINE PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALLOUT TO BE 1" PIPE (MAIN LINE PIPE SIZE DIAMETER NOT TO BE LESS THAN 1"). LATERAL PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALLOUT TO BE 3/4" PIPE (LATERAL PIPE SIZE DIAMETER NOT TO BE LESS THAN 3/4").
- IT IS IMPORTANT THAT BOTH THE CONTROLLER AND THE DECODERS ARE GROUNDED TO GROUND RODS OR PLATES WITH LESS THAN 10 OHMS RESISTANCE. THE GROUND SHOULD ALWAYS BE MEASURED WITH A GROUND RESISTANCE METER. A "CLAMP ON METER" CANNOT BE USED FOR GROUND MEASUREMENT. SINCE THIS IS AN ISOLATED SYSTEM, GROUND RESISTANCE MEASUREMENTS SHOULD BE PERFORMED WITH A "FALL OFF POTENTIAL" TYPE METER IN DECODER SYSTEMS. CONTRACTOR IS RESPONSIBLE TO PROVIDE THE OWNER AND THE CITY OF CHICO WITH A CERTIFIED GROUNDING REPORT SHOWING THE RESULTS OF THE TEST.
- CONTRACTOR IS RESPONSIBLE TO PROVIDE, INSTALL, AND HAVE CERTIFIED FULLY FUNCTIONAL BASELINE CONTROLLERS. CONNECT CONTROLLERS TO THE CITY CENTRAL CONTROL. CONTRACTOR IS RESPONSIBLE FOR WORKING WITH CITY TO MAKE CONNECTION.
- SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB / TDB					
Checked:	JBB	Date:	12-6-2023			

CITY OF CHICO
PUBLIC WORKS DEPARTMENT

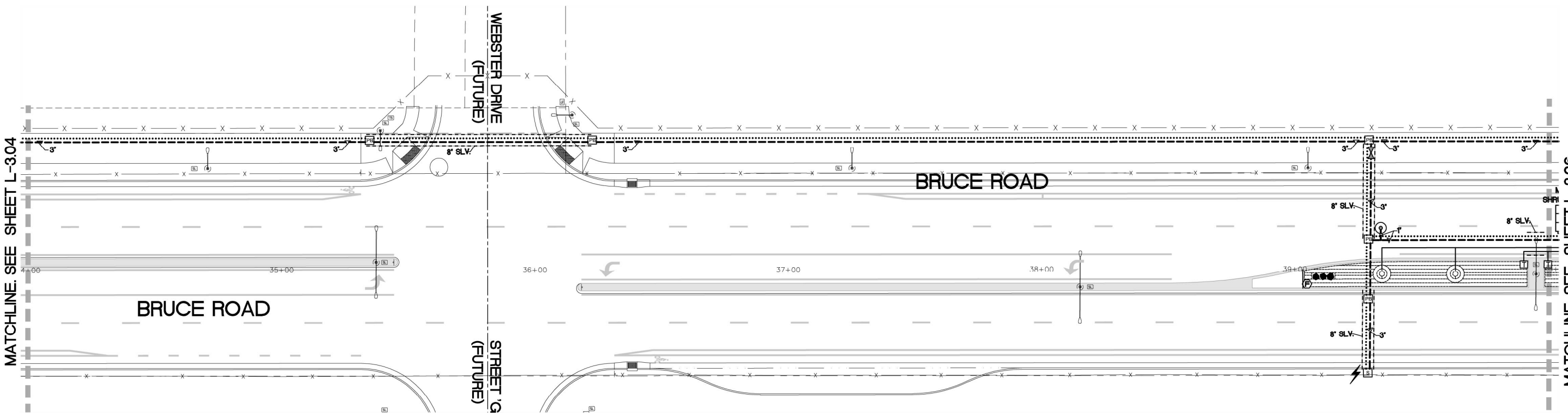


BRUCE ROAD RECONSTRUCTION
LANDSCAPE IRRIGATION PLAN BRUCE ROAD STA. 28+00 TO 34+00

Project Number:	16038	Drawing Number:	L-304
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 161 of 182

MATCHLINE: SEE SHEET L-304

MATCHLINE: SEE SHEET L-306



IRRIGATION LEGEND				
SYM.	NOTES	DESCRIPTION	MODEL	REMARKS
⊗		WATER POINT OF CONNECTION 'A'		CONNECT TO NEW DEDICATED 2" WATER METER. SEE CIVIL ENGINEERS PLANS. CONFIRM EXACT LOCATION IN FIELD.
⊗		WATER POINT OF CONNECTION 'B'		CONNECT TO EXISTING 2" WATER METER. CONFIRM EXACT LOCATION IN FIELD.
⊗		WATER POINT OF CONNECTION 'C'		CONNECT TO NEW DEDICATED 2" WATER METER. SEE CIVIL ENGINEERS PLANS. CONFIRM EXACT LOCATION IN FIELD.
BP		BACKFLOW PREVENTER 'A'	450L3 LEAD FREE	2" SIZE. INSTALL IN ENCLOSURE ON CONCRETE PAD. PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE). PROVIDE AND INSTALL INSULATED BLANKET.
BP		BACKFLOW PREVENTER 'B'	EXISTING (TO REMAIN)	2" SIZE (VERIFY). VERIFY THAT CERTIFICATION IS CURRENT. FIELD VERIFY SIZE. I PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE) IN THE EVENT THAT PRESSURE EXCEEDS 70 PSI. PROVIDE AND INSTALL INSULATED BLANKET.
BP		BACKFLOW PREVENTER 'C'	450L3 LEAD FREE	2" SIZE. INSTALL IN ENCLOSURE ON CONCRETE PAD. PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE). PROVIDE AND INSTALL INSULATED BLANKET.
FM		FLOWMETER / MASTER VALVE ASSEMBLY 'A'	04200 (LINE SIZE) (ULTRASONIC) WITH BL-5008 DECODER AND ICV 801 VALVE WITH 80-5201 MY DECODER	INSTALL, AS PER MANUFACTURER'S SPECIFICATIONS
FM		EXISTING FLOW SENSING / MASTER VALVE ASSEMBLY 'B'	EXISTING RETROFIT WITH A BARELINE BL-5008 DECODER (OR BL-5008 2" ULTRASONIC) AND A 80-5201 MY DECODER AT VALVE	CONTRACTOR RESPONSIBLE TO RE-PROGRAM FLOW SENSING SHUT OFF AT THE CONTROLLER PER THE PARAMETERS OF THE NEW IRRIGATION SYSTEM
FM		FLOWMETER / MASTER VALVE ASSEMBLY 'C'	04200 (LINE SIZE) (ULTRASONIC) WITH BL-5008 DECODER AND ICV 801 VALVE WITH 80-5201 MY DECODER	INSTALL, AS PER MANUFACTURER'S SPECIFICATIONS
E		ELECTRICAL POINT OF CONNECTION 'A'	80-000	
E		ELECTRICAL POINT OF CONNECTION 'B'	80-000	WIRE INTO POWER SUPPLY FOR EXISTING CONTROLLER. VERIFY EXACT CONDITIONS IN FIELD.
E		ELECTRICAL POINT OF CONNECTION 'C'	80-000	
C		BARELINE CONTROLLER 'A' IN HEAVY DUTY STAINLESS STEEL ENCLOSURE	BASESTATION 3200 SITE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL ENCLOSURE (BL-5000-EP-1M-2M). COMMUNICATION OPTION -CM- CELLULAR MODEL INCLUDES 5 YEAR CENTRAL CONTROL PLATFORM PLAN BL-50M2-PLUS-5Y	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO BALOGH, ENVIRO, CHICO 530-899-1873). GROUND PER ASIC EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND QFI OUTLET WITHIN FEEDSTOCK. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS
C		BARELINE CONTROLLER 'B' IN HEAVY DUTY STAINLESS STEEL ENCLOSURE	BASESTATION 3200 SITE MANAGEMENT IRRIGATION CONTROLLER IN HEAVY DUTY STAINLESS STEEL ENCLOSURE (BL-5000-EP-1M-2M). COMMUNICATION OPTION -CM- CELLULAR MODEL INCLUDES 5 YEAR CENTRAL CONTROL PLATFORM PLAN BL-50M2-PLUS-5Y	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO BALOGH, ENVIRO, CHICO 530-899-1873). GROUND PER ASIC EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND QFI OUTLET WITHIN FEEDSTOCK. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS
C		BARELINE CONTROLLER 'C' IN HEAVY DUTY STAINLESS STEEL ENCLOSURE	BASESTATION 3200 SITE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL ENCLOSURE (BL-5000-EP-1M-2M). COMMUNICATION OPTION -CM- CELLULAR MODEL INCLUDES 5 YEAR CENTRAL CONTROL PLATFORM PLAN BL-50M2-PLUS-5Y	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO BALOGH, ENVIRO, CHICO 530-899-1873). GROUND PER ASIC EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND QFI OUTLET WITHIN FEEDSTOCK. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS
ISV		ISOLATION VALVE	T-50-LF	LINE SIZE. VALVE MUST BE LEAD FREE.
CV		QUICK COUPLER VALVE	HQ-40/30	INSTALL A MINIMUM OF 8 FEET AWAY FROM TREE PLANTINGS EXCEPT WHERE OTHERWISE NOTED. PROVIDE OWNER WITH 2 COMPATIBLE KEYS PRIOR TO CLOSEOUT.
DCZ		DRIP CONTROL ZONE KIT	ABOVE 30.0 CM IZ 1" F A TO 30.0 CM IZ 1" F BELOW 30.0 CM IZ 1" F BARELINE BL-5001	
SD		SINGLE STATION DECODER	BARELINE BL-5001	
PM		PRESSURE MAINLINE		PVC SCHEDULE 40
NPL		NON-PRESSURE LATERAL PIPE		PVC SCHEDULE 40
WC		CONTROL WIRE CHASE	1/2" BLUE WIRE DOUBLE JACKETED W/ NON-THWISTED	1-1/2" DIAM SCHEDULE 40 PVC CONDUIT WITH HEAVY DUTY DECODER CABLE. USE BLUE JACKET FOR CONTROLLER A, RED JACKET FOR CONTROLLER B, AND GREEN JACKET FOR CONTROLLER C.
IS		IRRIGATION SLEEVE		PVC SCHEDULE 40. SIZE PER PLAN
H		HANTER PRESSURE COMPENSATING DRIZZLER	HCL-06-18 PG WITH EDO-18WAP	INSTALL AT 18" LINE SPACING
H		HANTER TRANSITION TO DRP	FLD-675-TBTEE	INSTALL IN CARBON 90 VALVE BOX OR EQUAL SET ELBOW A MINIMUM OF 1' BELOW TOP OF BOX
H		HANTER FLUSH VALVE	FLD-8V	INSTALL IN VALVE BOX AS PER PLANS AND DETAILS
H		HANTER DRIZZLERLINE AT TREES	HES-06 AND HCL-06-18	TWO EMITTERS PER TREE. SEE DETAIL.
FB		FULL BOX		INSTALL IN CARBON 90 VALVE BOX OR EQUAL SET ELBOW A MINIMUM OF 1' BELOW TOP OF BOX
GA		CONTROLLER GROUNDING/ SURGE ARRESTORS	PAIDSPEC GROUND PLATS RESISTANCE BARELINE SURGE ARRESTORS BL-LA01	INSTALL 1 WITHIN 25 FEET OF CONTROLLER AND EVERY 600 FEET AND DECODER CABLE ENDS.
SL		STUB OUT MAINLINE AND CONDUIT		STUB UP LATERAL LINE IN A CARBON 90 VALVE BOX
SYMBOLS				
1-1/2"		VALVE A/CONTROLLER STATION		
2.0"		VALVE SIZE		
28.4		FLOW IN GALLONS PER MINUTE		

IRRIGATION NOTES

- THIS SYSTEM IS DESIGNED FOR A MAXIMUM DEMAND OF 30 GPM (QUICK COUPLER VALVE). SEE PRESSURE LOSS CALCULATION, SHEET L-303 FOR ANTICIPATED PRESSURE AT WATER METERS. CONTACT THE LANDSCAPE ARCHITECT IN THE EVENT THAT FIELD TESTED PRESSURES ARE LESS THAN STATED, PRIOR TO CONSTRUCTION.
- THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOISTURE AND SLOPES, AND SUN, SHADE, AND WIND EXPOSURES.
- IT IS THE RESPONSIBILITY OF THE LANDSCAPE MAINTENANCE CONTRACTOR AND/OR OWNER TO PROGRAM THE IRRIGATION CONTROLLERS TO PROVIDE THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOISTURE AND SLOPES, AND SUN, SHADE, AND WIND EXPOSURES.
- THIS DRAWING IS DIAGNOSTIC. IRRIGATION COMPONENTS SHOWN BENEATH PAVING OR PLANTINGS ARE FOR GRAPHIC CLARITY ONLY. PLACE ALL PIPING, VALVES, AND OTHER IRRIGATION COMPONENTS WITHIN THE ADJACENT PLANTING EXCEPT WHERE PIPES CROSS PAVING. PLACE PIPING TO PREVENT CONFLICT WITH SUBSEQUENT PLANTING. REFER TO PLANTING PLAN.
- CONTRACTOR/DEVELOPER ARE RESPONSIBLE TO SUBMIT A FINAL LANDSCAPE PACKAGE INCLUDING AS-BUILTS, PRODUCT AND FIXTURES SUBMITTAL WITH ASSOCIATED MODEL NUMBERS, MANUFACTURER INFORMATION/SPECIFICATIONS, CONTROLLER IRRIGATION VALVE ID AND DESCRIPTION LIST, PROGRAMS, AND LAMINATED 11"x17" COLOR-CODED VALVE CHARTS. DIGITAL COPIES OF SUBMITTALS AND MANUALS IS ACCEPTABLE (WITH THE EXCEPTION OF THE LAMINATED VALVE CHART).
- TRENCH ALL MAIN LINES TO PROVIDE A MINIMUM OF 18" COVER. TRENCH ALL LATERAL LINES TO PROVIDE A MINIMUM COVER OF 12". TRENCH ALL MAIN OR LATERAL LINES TO PROVIDE A MINIMUM COVER OF 24" WHERE CROSSING UNDER DRIVEWAY PAVEMENT AND PLACE WITHIN A SCHEDULE 40 SLEEVE, SIZE AS SHOWN.
- INSTALL SLEEVES WHERE SHOWN ON PLAN AND AT ALL LOCATIONS WHERE IRRIGATION PIPES CROSS BENEATH PAVING, PRIOR TO THE PLACEMENT OF PAVING. COORDINATE WITH PAVING CONTRACTOR.
- ALL REMOTE CONTROL VALVES, QUICK COUPLER VALVES, AND FLUSH VALVES SHALL BE INSTALLED IN PLANTER AND IN VALVE BOXES.
- CONTRACTOR IS RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANT MATERIAL. INSTALL ADDITIONAL EMITTERS OR ADJUST SPACING AS REQUIRED.
- MAIN LINE PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALLOUT TO BE 1" PIPE (MAIN LINE PIPE SIZE DIAMETER NOT TO BE LESS THAN 1"). LATERAL PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALLOUT TO BE 3/4" PIPE (LATERAL PIPE SIZE DIAMETER NOT TO BE LESS THAN 3/4").
- IT IS IMPORTANT THAT BOTH THE CONTROLLER AND THE DECODERS ARE GROUNDED TO GROUND RODS OR PLATES WITH LESS THAN 10 OHMS RESISTANCE. THE GROUND SHOULD ALWAYS BE MEASURED WITH A GROUND RESISTANCE METER. A VOLTMETER ON METER CANNOT BE USED FOR GROUND MEASUREMENT, SINCE THIS IS AN ISOLATED SYSTEM. GROUND RESISTANCE MEASUREMENTS SHOULD BE PERFORMED WITH A "FALL OF POTENTIAL" TYPE METER IN DECODER SYSTEMS. CONTRACTOR IS RESPONSIBLE TO PROVIDE THE OWNER AND THE CITY OF CHICO WITH A CERTIFIED GROUNDING REPORT SHOWING THE RESULTS OF THE TEST.
- CONTRACTOR IS RESPONSIBLE TO PROVIDE, INSTALL, AND HAVE CERTIFIED FULLY FUNCTIONAL BARELINE CONTROLLERS. CONNECT CONTROLLERS TO THE CITY CENTRAL CONTROL. CONTRACTOR IS RESPONSIBLE FOR WORKING WITH CITY TO MAKE CONNECTION.
- SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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BFLA Project Number: 2414

Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB					
Checked:	JBB	Date:	12-6-2023			

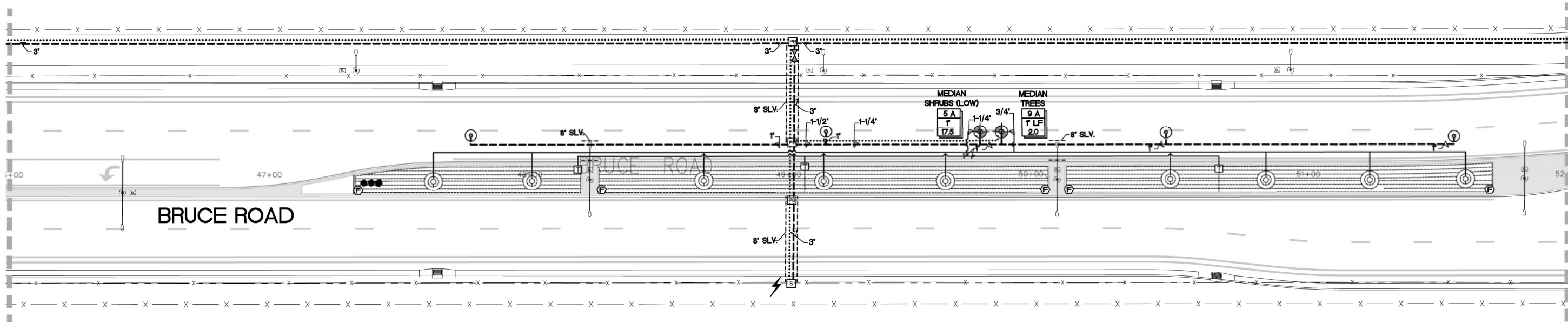
CITY OF CHICO
PUBLIC WORKS DEPARTMENT



BRUCE ROAD RECONSTRUCTION
LANDSCAPE IRRIGATION PLAN BRUCE ROAD STA. 34+00 TO 40+00

Project Number:	16038	Drawing Number:	L-305
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 162 of 182

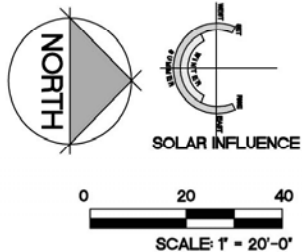
MATCHLINE: SEE SHEET L-306



MATCHLINE: SEE SHEET L-308

IRRIGATION LEGEND

SYM.	MFOR	DESCRIPTION	MODEL	REMARKS	DETAILS
		WATER POINT OF CONNECTION 'A'		CONNECT TO NEW DEDICATED 2" WATER METER. SEE CIVIL ENGINEER'S PLANS. CONFIRM EXACT LOCATION IN FIELD.	---
		WATER POINT OF CONNECTION 'B'		CONNECT TO EXISTING 2" WATER METER. CONFIRM EXACT LOCATION IN FIELD.	---
		WATER POINT OF CONNECTION 'C'		CONNECT TO NEW DEDICATED 2" WATER METER. SEE CIVIL ENGINEER'S PLANS. CONFIRM EXACT LOCATION IN FIELD.	---
	WJLJNS	BACKFLOW PREVENTER 'A'	6702L2 LEAD FREE	2" SIZE. INSTALL IN ENCLOSURE ON CONCRETE PAD. PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE), PROVIDE AND INSTALL INSULATED BLANKET.	LS-22/ L-3-20
	EXISTING	BACKFLOW PREVENTER 'B'	EXISTING (TO REMAIN)	2" SIZE (VERIFY). VERIFY THAT CERTIFICATION IS CURRENT. FIELD VERIFY SIZE. 1 PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE) IN THE EVENT THAT PRESSURE EXCEEDS 70 PSI. PROVIDE AND INSTALL INSULATED BLANKET.	---
	WJLJNS	BACKFLOW PREVENTER 'C'	6702L2 LEAD FREE	2" SIZE. INSTALL IN ENCLOSURE ON CONCRETE PAD. PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE), PROVIDE AND INSTALL INSULATED BLANKET.	LS-22/ L-3-20
	FMA	FLOW SENSING / MASTER VALVE ASSEMBLY 'A'	05200 (LINE SIZE) ULTRASONIC WITH BL-4308 DECODER AND ICY 303 VALVE WITH BP-4301 MY DECODER	INSTALL AS PER MANUFACTURER'S SPECIFICATIONS	LS-27/ L-3-20
	EXISTING	FLOW SENSING / MASTER VALVE ASSEMBLY 'B'	EXISTING. RETROFIT WITH A BASELINE BL-4308 DECODER (OR BL-4309 IF ULTRASONIC) AND A BP-4301 MY DECODER AT VALVE	CONTRACTOR RESPONSIBLE TO RE-PROGRAM FLOW SENSING SHUT OFF AT THE CONTROLLER PER THE PARAMETERS OF THE NEW IRRIGATION SYSTEM	---
	FMA	FLOW SENSING / MASTER VALVE ASSEMBLY 'C'	05200 (LINE SIZE) ULTRASONIC WITH BL-4308 DECODER AND ICY 303 VALVE WITH BP-4301 MY DECODER	INSTALL AS PER MANUFACTURER'S SPECIFICATIONS	LS-27/ L-3-20
	TEBCC	ELECTRICAL POINT OF CONNECTION 'A'	28-000		LS-36/ L-3-20
	---	ELECTRICAL POINT OF CONNECTION 'B'	TE INTO POWER SUPPLY FOR EXISTING CONTROLLER. VERIFY EXACT CONDITIONS IN FIELD.		LS-36/ L-3-20
	TEBCC	ELECTRICAL POINT OF CONNECTION 'C'	28-000		LS-36/ L-3-20
	C	CONTROLLER 'A' IN HEAVY DUTY STAINLESS STEEL ENCLOSURE	BASESTATION 3200 SITE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL ENCLOSURE BL-3200-03-WM-2WS. COMMUNICATION OPTION -CM CELLULAR MODEM INCLUDES 5 YEAR CENTRAL CONTROL PLATFORM PLAN BL-3200-PLUS-6Y	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO SALDAN, EWING, CHICO, 530-598-4575). GROUND PER ABC EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDESTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	LS-46/ L-3-20
	C	CONTROLLER 'B' IN HEAVY DUTY STAINLESS STEEL ENCLOSURE	BASESTATION 3200 SITE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL ENCLOSURE BL-3200-03-WM-2WS. COMMUNICATION OPTION -CM CELLULAR MODEM INCLUDES 5 YEAR CENTRAL CONTROL PLATFORM PLAN BL-3200-PLUS-6Y	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO SALDAN, EWING, CHICO, 530-598-4575). GROUND PER ABC EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDESTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	LS-46/ L-3-20
	C	CONTROLLER 'C' IN HEAVY DUTY STAINLESS STEEL ENCLOSURE	BASESTATION 3200 SITE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL ENCLOSURE BL-3200-03-WM-2WS. COMMUNICATION OPTION -CM CELLULAR MODEM INCLUDES 5 YEAR CENTRAL CONTROL PLATFORM PLAN BL-3200-PLUS-6Y	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO SALDAN, EWING, CHICO, 530-598-4575). GROUND PER ABC EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDESTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	LS-46/ L-3-20
	IBCCO	ISOLATION VALVE	T-10-LF	LINE SIZE. VALVE MUST BE LEAD FREE.	LS-29/ L-3-21
	HANTR	QUICK COUPLER VALVE	HQ-44JIC	INSTALL A MINIMUM OF 6 FEET AWAY FROM TREE PLANTINGS EXCEPT WHERE OTHERWISE NOTED. PROVIDE OWNER WITH 2 COMPATIBLE KEYS PRIOR TO CLOSEOUT.	LS-26/ L-3-21
	HANTR/BASELINE	DRIP CONTROL ZONE KIT	ABOVE 20 GPM: K2Z 1" 2 TO 20 GPM: K2Z 1" L-F BELOW 20 GPM: K2Z 1" L-F BASELINE 4 BL-4301		LS-30/ L-3-21
	---	SINGLE STATION DECODER	---		---
	---	PRESSURE MAINLINE	---	PVC SCHEDULE 40	---
	---	NON-PRESSURE LATERAL PIPE	---	PVC SCHEDULE 40	---
	---	CONTROL WIRE CHASE	1/2" DIA. SCHEDULE 40 PVC CONDUIT WITH HEAVY DUTY DECODER CABLE. USE BLUE JACKET FOR CONTROLLER A, RED JACKET FOR CONTROLLER B, AND GREEN JACKET FOR CONTROLLER C.		LS-19, LS-20, LS-21, LS-22/ L-3-21
	---	IRRIGATION SLEEVE	---	PVC SCHEDULE 40. SIZE PER PLAN	---
	HANTR	PRESSURE COMPENSATING DRIFTERLINE	HCL-06-18-PC WITH BCO-WRAP	INSTALL AT 18" LINE SPACING	LS-38 1- LS-40/ L-3-22
	HANTR	TRANSITION TO DRIP	FLD-076-TITEE	INSTALL IN CARSON 90 VALVE BOX OR EQUAL. SET ELBOW A MINIMUM OF 1" BELOW TOP OF BOX	LS-39/ L-3-22
	HANTR	FLUSH VALVE	FLD-07	INSTALL IN VALVE BOX AS PER PLANS AND DETAILS	LS-43/ L-3-22
	HANTR	DRIFTERLINE AT TREES	H2B-06 AND HCL-09-12	TWO EMITTERS PER TREE. SEE DETAIL.	LS-44/ L-3-22
	---	PULL BOX	---	INSTALL IN CARSON 90 VALVE BOX OR EQUAL. SET ELBOW A MINIMUM OF 1" BELOW TOP OF BOX	LS-50/ L-3-22
	BASELINE/PAGE	CONTROLLER GROUNDING/ BURKE ANESTORS	PAKESPEC GROUND PLATE: 82290C BASELINE BURKE ANESTORS: BL-LA01	INSTALL 1 WITHIN 25 FEET OF CONTROLLER AND EVERY 800 FEET AND DECODER CABLE ENDS.	---
	---	STUB OUT MAINLINE AND CONDUIT	---	STUB UP LATERAL LINE IN A CARSON 90 VALVE BOX	LS-25/ L-3-22
SYMBOLS					
	1	VALVE	1/2"	VALVE SIZE	
	28.4	FLOW IN GALLONS PER MINUTE			



IRRIGATION NOTES

- THIS SYSTEM IS DESIGNED FOR A MAXIMUM DEMAND OF 30 GPM (QUICK COUPLER VALVE). SEE PRESSURE LOSS CALCULATION, SHEET L-300 FOR ANTICIPATED PRESSURE AT WATER METERS. CONTACT THE LANDSCAPE ARCHITECT IN THE EVENT THAT FIELD TESTED PRESSURES ARE LESS THAN STATED, PRIOR TO CONSTRUCTION.
- THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH. ADJUST CLOCK AS REQUIRED TO ACHIEVE THIS GOAL AS REQUIRED BY THE TIME OF YEAR.
- IT IS THE RESPONSIBILITY OF THE LANDSCAPE MAINTENANCE CONTRACTOR AND/OR OWNER TO PROGRAM THE IRRIGATION CONTROLLERS TO PROVIDE THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOUNDS AND SLOPES, AND SUN, SHADE AND WIND EXPOSURES.
- THIS DRAWING IS DIAGRAMMATIC. IRRIGATION COMPONENTS SHOWN BENEATH PAVING OR PLANTINGS ARE FOR GRAPHIC CLARITY ONLY. PLACE ALL PIPING, VALVES, AND OTHER IRRIGATION COMPONENTS WITHIN THE ADJACENT PLANTER EXCEPT WHERE PIPES CROSS PAVING. PLACE PIPING TO PREVENT CONFLICT WITH SUBSEQUENT PLANTING. REFER TO PLANTING PLAN.
- CONTRACTORS/DEVELOPERS ARE RESPONSIBLE TO SUBMIT A FINAL LANDSCAPE PACKAGE INCLUDING AS-BUILTS, PRODUCT AND FIXTURES SUBMITTAL WITH ASSOCIATED MODEL NUMBERS MANUFACTURER INFORMATION/SPECIFICATIONS, CONTROLLER IRRIGATION VALVE ID AND DESCRIPTION LIST, PROGRAM(S), AND LAMINATED 11"x17" COLOR-CODED VALVE CHART(S). DIGITAL COPIES OF SUBMITTALS AND MANUALS IS ACCEPTABLE (WITH THE EXCEPTION OF THE LAMINATED VALVE CHART).
- TRENCH ALL MAIN LINES TO PROVIDE A MINIMUM OF 18" COVER. TRENCH ALL LATERAL LINES TO PROVIDE A MINIMUM COVER OF 12". TRENCH ALL MAIN OR LATERAL LINES TO PROVIDE A MINIMUM COVER OF 24" WHERE CROSSING UNDER DRIVEWAY PAVEMENT AND PLACE WITHIN A SCHEDULE 40 SLEEVE, SIZE AS SHOWN.
- INSTALL SLEEVES WHERE SHOWN ON PLAN AND AT ALL LOCATIONS WHERE IRRIGATION PIPES CROSS BENEATH PAVING, PRIOR TO THE PLACEMENT OF PAVING. COORDINATE WITH PAVING CONTRACTOR.
- ALL REMOTE CONTROL VALVES, QUICK COUPLER VALVES, AND FLUSH VALVES SHALL BE INSTALLED IN PLANTER AND IN VALVE BOXES.
- CONTRACTOR IS RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANT MATERIAL. INSTALL ADDITIONAL EMITTERS OR ADJUST SPACING AS REQUIRED.
- MAIN LINE PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALLOUT TO BE 1" PIPE (MAIN LINE PIPE SIZE DIAMETER NOT TO BE LESS THAN 1"). LATERAL PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALLOUT TO BE 3/4" PIPE (LATERAL PIPE SIZE DIAMETER NOT TO BE LESS THAN 3/4").
- IT IS IMPORTANT THAT BOTH THE CONTROLLER AND THE DECODERS ARE GROUNDING TO GROUND RODS OR PLATES WITH LESS THAN 10 OHM RESISTANCE. THE GROUND SHOULD ALWAYS BE MEASURED WITH A GROUND RESISTANCE METER. A "CLAMP ON METER" CANNOT BE USED FOR GROUND MEASUREMENT, SINCE THIS IS AN ISOLATED SYSTEM. GROUND RESISTANCE MEASUREMENTS SHOULD BE PERFORMED WITH A "FALL OF POTENTIAL" TYPE METER IN DECODER SYSTEMS. CONTRACTOR IS RESPONSIBLE TO PROVIDE THE OWNER AND THE CITY OF CHICO WITH A CERTIFIED GROUNDING REPORT SHOWING THE RESULTS OF THE TEST.
- CONTRACTOR IS RESPONSIBLE TO PROVIDE, INSTALL, AND HAVE CERTIFIED FULLY FUNCTIONAL BASELINE CONTROLLER. CONNECT CONTROLLERS TO THE CITY CENTRAL CONTROL. CONTRACTOR IS RESPONSIBLE FOR WORKING WITH CITY TO MAKE CONNECTION.
- SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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BFLA Project Number: 2414

Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB					
Checked:	JBB	Date:	12-6-2023			

CITY OF CHICO
PUBLIC WORKS DEPARTMENT



BRUCE ROAD RECONSTRUCTION
LANDSCAPE IRRIGATION PLAN BRUCE ROAD STA. 46+00 TO 52+00

Project Number:	16038	Drawing Number:	L-307
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 164 of 182



IRRIGATION NOTES

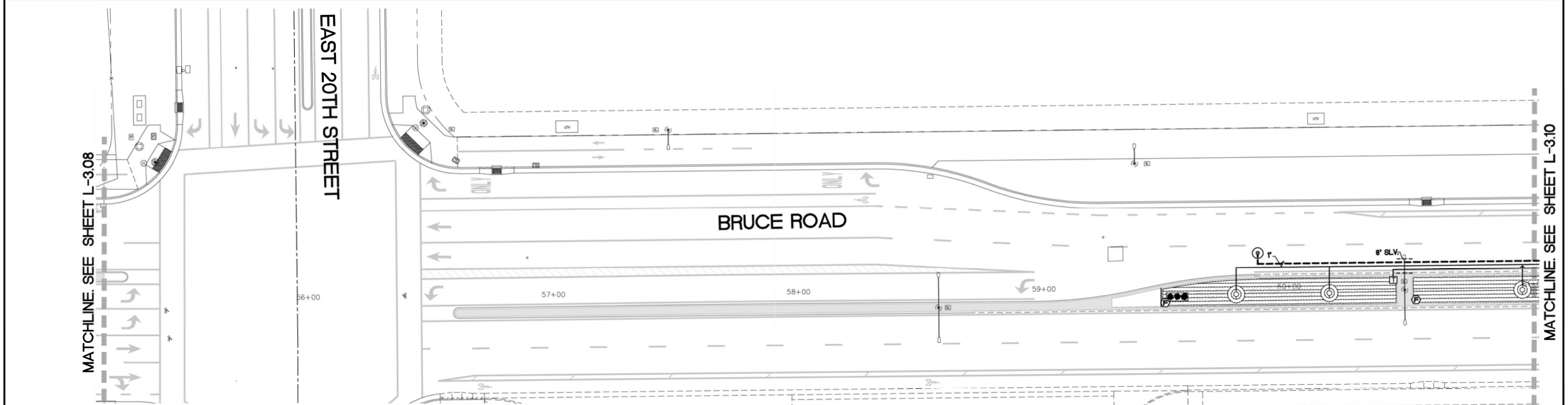
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BFLA Project Number: 2414

**CITY OF CHICO
PUBLIC WORKS DEPARTMENT**



Project Number: 16038	Drawing Number: L-3.08
Scale: PER PLAN Horizontal PER PLAN Vertical	Sheet <u>165</u> of <u>182</u>



IRRIGATION LEGEND

SYM.	MFGR	DESCRIPTION	MODEL	REMARKS	DETAILS
		WATER POINT OF CONNECTION 'A'		CONNECT TO NEW DEDICATED 2" WATER METER. SEE CIVIL ENGINEER'S PLANS. CONFIRM EXACT LOCATION IN FIELD.	---
		WATER POINT OF CONNECTION 'B'		CONNECT TO EXISTING 2" WATER METER. CONFIRM EXACT LOCATION IN FIELD.	---
		WATER POINT OF CONNECTION 'C'		CONNECT TO NEW DEDICATED 2" WATER METER. SEE CIVIL ENGINEER'S PLANS. CONFIRM EXACT LOCATION IN FIELD.	---
	WILJON	BACKFLOW PREVENTER 'A'	870L2 LEAD FREE	2" SIZE. INSTALL IN ENCLOSURE ON CONCRETE PAD. PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE), PROVIDE AND INSTALL INSULATED BLANKET.	LB-39/ L-320
	EXISTING	BACKFLOW PREVENTER 'B'	EXISTING (TO REMAIN)	2" SIZE (VERIFY). VERIFY THAT CERTIFICATION IS CURRENT. FIELD VERIFY SIZE. 1 PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE) IN THE EVENT THAT PRESSURE EXCEEDS 70 PSI. PROVIDE AND INSTALL INSULATED BLANKET.	---
	WILJON	BACKFLOW PREVENTER 'C'	870L2 LEAD FREE	2" SIZE. INSTALL IN ENCLOSURE ON CONCRETE PAD. PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE). PROVIDE AND INSTALL INSULATED BLANKET.	LB-39/ L-320
	FLORWEC	FLOW SENSING / MASTER VALVE ASSEMBLY 'A'	Q8200 (LINE SIZE) (ULTRASONIC) WITH BL-4908 DECODER AND ICV 801 VALVE WITH BP-4901 M/ DECODER	INSTALL AS PER MANUFACTURER'S SPECIFICATIONS	LB-39/ L-320
	EXISTING	FLOW SENSING / MASTER VALVE ASSEMBLY 'B'	EXISTING RETROFIT WITH A BASELINE BL-4908 DECODER (OR BL-4909 IF ULTRASONIC) AND A BP-4901 M/ DECODER AT VALVE	CONTRACTOR RESPONSIBLE TO RE-PROGRAM FLOW SENSING SHUT OFF AT THE CONTROLLER PER THE PARAMETERS OF THE NEW IRRIGATION SYSTEM	---
	FLORWEC	FLOW SENSING / MASTER VALVE ASSEMBLY 'C'	Q8200 (LINE SIZE) (ULTRASONIC) WITH BL-4908 DECODER AND ICV 801 VALVE WITH BP-4901 M/ DECODER	INSTALL AS PER MANUFACTURER'S SPECIFICATIONS	LB-39/ L-320
	TEBCO	ELECTRICAL POINT OF CONNECTION 'A'	24-000	SEE INTO POWER SUPPLY FOR EXISTING CONTROLLER. VERIFY EXACT CONDITIONS IN FIELD	LB-46/ L-320
	---	ELECTRICAL POINT OF CONNECTION 'B'	---	---	---
	TEBCO	ELECTRICAL POINT OF CONNECTION 'C'	24-000	---	LB-46/ L-320
	BASELINE STRONGBOX	CONTROLLER 'A' IN HEAVY DUTY STAINLESS STEEL ENCLOSURE	BASESTATION 5000 SITE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL ENCLOSURE BL-5200-SS-1M-2M, COMMUNICATION OPTION -CM CELLULAR MODEM INCLUDE 5 YEAR CENTRAL CONTROL PLATFORM PLAN BL-5MMS-PLUS-SY	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO SALGALAN, ENRNG, CHICO 800-588-4878). GROUND PER ASCE EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDESTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	LB-46/ L-320
	BASELINE STRONGBOX	CONTROLLER 'B' IN HEAVY DUTY STAINLESS STEEL ENCLOSURE	BASESTATION IRRIGATION CONTROLLER BASESTATION IN HEAVY DUTY PEDESTAL MOUNT ENCLOSURE BL-4807M-1M-2M IN 1-1/2" HRS PEDESTAL COMMUNICATION OPTION -CM CELLULAR MODEM, COMMUNICATION, WIRE STATIONS ARE REQUIRED TO SERVICE EXISTING VALVES, SELECT (-RM), (-RM), (-RM), OR (-RM) AS NEEDED, INCLUDE 5 YEAR CENTRAL CONTROL PLATFORM FOR SUBSTATIONS: BL-5MMS-PLUS-SY	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO SALGALAN, ENRNG, CHICO 800-588-4878). GROUND PER ASCE EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDESTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	LB-46/ L-320
	BASELINE STRONGBOX	CONTROLLER 'C' IN HEAVY DUTY STAINLESS STEEL ENCLOSURE	BASESTATION 5000 SITE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL ENCLOSURE BL-5200-SS-1M-2M, COMMUNICATION OPTION -CM CELLULAR MODEM INCLUDE 5 YEAR CENTRAL CONTROL PLATFORM PLAN BL-5MMS-PLUS-SY	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO SALGALAN, ENRNG, CHICO 800-588-4878). GROUND PER ASCE EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDESTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	LB-46/ L-320
	NECO	ISOLATION VALVE	T-82-LF	LINE SIZE. VALVE MUST BE LEAD FREE.	LB-28/ L-321
	HANTER	QUICK COUPLER VALVE	HQ-44L3C	INSTALL A MINIMUM OF 6 FEET AWAY FROM TREE PLANTINGS EXCEPT WHERE OTHERWISE NOTED. PROVIDE OWNER WITH 2 COMPATIBLE KEYS PRIOR TO CLOSEOUT.	LB-28/ L-321
	HANTER/BASELINE	Drip CONTROL ZONE KIT	ABOVE 20.0CM x 12" 1" TO 20.0CM x 12" 1" L-F BELOW 20.0CM x 12" 1" L-F BASELINE 6 BL-5001	---	LB-30/ L-321
	---	SINGLE STATION DECODER	---	---	---
	---	PRESSURE MAINLINE	---	PVC SCHEDULE 40	---
	---	NON-PRESSURE LATERAL PIPE	---	PVC SCHEDULE 40	---
	---	CONTROL WIRE CHASE	1/2" BLUE WIRE DOUBLE JACKETED W/ 1/2" NON-TWISTED.	1-1/2" DIAM SCHEDULE 40 PVC CONDUIT WITH HEAVY DUTY DECODER CABLE. USE BLUE JACKET FOR CONTROLLER A, RED JACKET FOR CONTROLLER B, AND GREEN JACKET FOR CONTROLLER C.	LB-18, LB-20, LB-21, & LB-22/ L-321
	---	IRRIGATION SLEEVE	---	PVC SCHEDULE 40, SIZE PER PLAN	---
	HANTER	PRESSURE COMPENSATING EmitterLINE	HEC-06-08-PVC WITH ECO-100VAP	INSTALL AT 18" LINE SPACING	LB-38 & LB-40/ L-322
	HANTER	TRANSITION TO DRIP	PLD-075-TITEE	INSTALL IN CARBON 90 VALVE BOX OR EQUAL SET ELBOW A MINIMUM OF 1" BELOW TOP OF BOX	LB-39/ L-322
	HANTER	FLUSH VALVE	PLD-07	INSTALL IN VALVE BOX AS PER PLANS AND DETAILS	LB-43/ L-322
	HANTER	DRIFTLINE AT TREES	HEB-06 AND HEC-06-12	TWO EMITTERS PER TREE. SEE DETAIL.	LB-44/ L-322
	---	PULL BOX	---	INSTALL IN CARBON 90 VALVE BOX OR EQUAL SET ELBOW A MINIMUM OF 1" BELOW TOP OF BOX	LB-50/ L-322
	BASELINE/PAGE	CONTROLLER GROUNDING/BURKE ARRESTORS	PANSEPEC GROUND PLATE 150MM BASELINE BURKE ARRESTORS BL-LA01	INSTALL 1' WITHIN 25 FEET OF CONTROLLER AND EVERY 600 FEET AND DECODER CABLE ENDS.	---
	---	STUB OUT MAINLINE AND CONDUIT	---	STUB UP LATERAL LINE IN A CARBON 90 VALVE BOX	LB-50/ L-322

SYMBOLS	
	VALVE @ CONTROLLER STATION
	VALVE SIZE
	FLOW IN GALLONS PER MINUTE

IRRIGATION NOTES

- THIS SYSTEM IS DESIGNED FOR A MAXIMUM DEMAND OF 30 GPM (QUICK COUPLER VALVE). SEE PRESSURE LOSS CALCULATION SHEET L-300 FOR ANTICIPATED PRESSURE AT WATER METERS. CONTACT THE LANDSCAPE ARCHITECT IN THE EVENT THAT FIELD TESTED PRESSURES ARE LESS THAN STATED, PRIOR TO CONSTRUCTION.
- THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH. ADJUST CLOCK AS REQUIRED TO ACHIEVE THIS GOAL AS REQUIRED BY THE TIME OF YEAR.
- IT IS THE RESPONSIBILITY OF THE LANDSCAPE MAINTENANCE CONTRACTOR AND/OR OWNER TO PROGRAM THE IRRIGATION CONTROLLERS TO PROVIDE THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOUNDS AND SLOPES, AND SUN, SHADE AND WIND EXPOSURES.
- THIS DRAWING IS DIAGRAMMATIC. IRRIGATION COMPONENTS SHOWN BENEATH PAVING OR PLANTINGS ARE FOR GRAPHIC CLARITY ONLY. PLACE ALL PIPING, VALVES, AND OTHER IRRIGATION COMPONENTS WITHIN THE ADJACENT PLANTER EXCEPT WHERE PIPES CROSS PAVING. PLACE PIPING TO PREVENT CONFLICT WITH SUBSEQUENT PLANTING. REFER TO PLANTING PLAN.
- CONTRACTORS/DEVELOPERS ARE RESPONSIBLE TO SUBMIT A FINAL LANDSCAPE PACKAGE INCLUDING AS-BUILTS, PRODUCT AND FINISHES SUBMITTAL WITH ASSOCIATED MODEL NUMBERS MANUFACTURER INFORMATION/SPECIFICATIONS, CONTROLLER IRRIGATION VALVE ID AND DESCRIPTION LIST, PROGRAMS, AND LAMINATED 11"x17" COLOR-CODED VALVE CHART(S). DIGITAL COPIES OF SUBMITTALS AND MANUALS IS ACCEPTABLE (WITH THE EXCEPTION OF THE LAMINATED VALVE CHART).
- TRENCH ALL MAIN LINES TO PROVIDE A MINIMUM OF 18" COVER. TRENCH ALL LATERAL LINES TO PROVIDE A MINIMUM COVER OF 12". TRENCH ALL MAIN OR LATERAL LINES TO PROVIDE A MINIMUM COVER OF 24" WHERE CROSSING UNDER DRIVEWAY PAVEMENT AND PLACE WITHIN A SCHEDULE 40 SLEEVE, SIZE AS SHOWN.
- INSTALL SLEEVES WHERE SHOWN ON PLAN AND AT ALL LOCATIONS WHERE IRRIGATION PIPES CROSS BENEATH PAVING, PRIOR TO THE PLACEMENT OF PAVING. COORDINATE WITH PAVING CONTRACTOR.
- ALL REMOTE CONTROL, VALVES, QUICK COUPLER VALVES, AND FLUSH VALVES SHALL BE INSTALLED IN PLANTER AND IN VALVE BOXES.
- CONTRACTOR IS RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANT MATERIAL. INSTALL ADDITIONAL EMITTERS OR ADJUST SPACING AS REQUIRED.
- MAIN LINE PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALLOUT TO BE 1" PIPE (MAIN LINE PIPE SIZE DIAMETER NOT TO BE LESS THAN 1"). LATERAL PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALLOUT TO BE 3/4" PIPE (LATERAL PIPE SIZE DIAMETER NOT TO BE LESS THAN 3/4").
- IT IS IMPORTANT THAT BOTH THE CONTROLLER AND THE DECODERS ARE GROUNDED TO GROUND RODS OR PLATES WITH LESS THAN 10 OHMS RESISTANCE. THE GROUND SHOULD ALWAYS BE MEASURED WITH A GROUND RESISTANCE METER. A "CLAMP ON METER" CANNOT BE USED FOR GROUND MEASUREMENT, SINCE THIS IS AN ISOLATED SYSTEM. GROUND RESISTANCE MEASUREMENTS SHOULD BE PERFORMED WITH A "FALL OF POTENTIAL" TYPE METER IN DECODER SYSTEMS. CONTRACTOR IS RESPONSIBLE TO PROVIDE THE OWNER AND THE CITY OF CHICO WITH A CERTIFIED GROUNDING REPORT SHOWING THE RESULTS OF THE TEST.
- CONTRACTOR IS RESPONSIBLE TO PROVIDE, INSTALL, AND HAVE CERTIFIED FULLY FUNCTIONAL BASELINE CONTROLLERS. CONNECT CONTROLLERS TO THE CITY CENTRAL CONTROL. CONTRACTOR IS RESPONSIBLE FOR WORKING WITH CITY TO MAKE CONNECTION.
- SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

Designed: JBB	Approved:	Revision	Date	By
Drawn By: JBB/ TDB	Date: 12-6-2023			
Checked: JBB				

CITY OF CHICO
PUBLIC WORKS DEPARTMENT



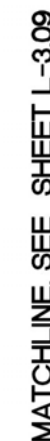
BRUCE ROAD RECONSTRUCTION
LANDSCAPE IRRIGATION PLAN BRUCE ROAD STA. 55+16.84 TO 61+00

BISHO FIRTH LANDSCAPE ARCHITECTS, INC.
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Scale: PER PLAN Horizontal	Sheet 166 of 182

BFLA Project Number: 2414



SYMBOL	1
	1-1/2"
	28.4

1. THIS SYSTEM IS DESIGNED FOR A MAXIMUM DEMAND OF 30 GPM (QUICK COUPLER VALVE). SEE PRESSURE LOSS CALCULATION, SHEET L-3.00 FOR ANTICIPATED PRESSURE AT WATER METERS. CONTACT THE LANDSCAPE ARCHITECT IN THE EVENT THAT FIELD TESTED PRESSURES ARE LESS THAN STATED, PRIOR TO CONSTRUCTION.
2. THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN PLANT HEALTH. ADJUST CLOCK AS REQUIRED TO ACHIEVE THIS GOAL AS REQUIRED BY THE TIME OF YEAR.
3. IT IS THE RESPONSIBILITY OF THE LANDSCAPE MAINTENANCE CONTRACTOR AND/OR OWNER TO PROGRAM THE IRRIGATION CONTROLLERS TO PROVIDE THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOUNDS AND SLOPES, AND SUN, SHADE AND WIND EXPOSURE.
4. THIS DRAWING IS DIAGRAMMATIC. IRRIGATION COMPONENTS SHOWN BETWEEN PAVING OR PLANTINGS ARE FOR GRAPHIC CLARITY ONLY. PLACE ALL PIPING, VALVES, AND OTHER IRRIGATION COMPONENTS WITHIN THE ADJACENT PLANTER EXCEPT WHERE PIPES CROSS PAVING. PLACE PIPING TO PREVENT CONFLICT WITH SUBSEQUENT PLANTING. REFER TO PLANTING PLAN.
5. CONTRACTORS/DEVELOPERS ARE RESPONSIBLE TO SUBMIT A FINAL LANDSCAPE PACKAGE INCLUDING A SCHEDULING SCHEDULE, SCHEDULING AND SCHEDULING WITH ASSOCIATED MODEL, NUMBER MANUFACTURER INFORMATION/SPECIFICATIONS, CONTROLLER IRRIGATION VALVE ID AND DESCRIPTION LIST, PROGRAMS, AND LAMINATED 11"x17" COLOR-CODED VALVE CHART(S). DIGITAL COPIES OF SUBMITTALS AND MANUALS IS ACCEPTABLE (WITH THE EXCEPTION OF THE LAMINATED VALVE CHART).
6. TRENCH ALL MAIN LINES TO PROVIDE A MINIMUM DEPTH OF 18" COVER. TRENCH ALL LATERAL LINES TO PROVIDE A MINIMUM COVER OF 18". TRENCH ALL MAIN OR LATERAL LINES TOPSIDE A MINIMUM COVER OF 24" WHERE CROSSING OVER DRIVEWAY PAVEMENT AND PLACE WITHIN A SCHEDULE 40 SILVER SIZE AS SHOWN.
7. INSTALL BLESSERS WHERE SHOWN ON PLAN AND AT ALL LOCATIONS WHERE IRRIGATION PIPES CROSS SEASIDE PAVING, PRIOR TO THE PLACEMENT OF PAVING. COORDINATE WITH PAVING CONTRACTOR.
8. ~~ALL REMOTE CONTROL VALVES~~ QUICK COUPLER VALVES, AND FLUSH VALVES SHALL BE INSTALLED IN PLANTER AND IN VALVE BOXES.
9. CONTRACTOR IS RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANT MATERIAL. INSTALL ADDITIONAL EMITTERS OR ADJUST SPACING AS REQUIRED.
10. MAIN LINE PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALLOUT TO BE 1" PIPE MAIN LINE PIPE SIZE DIAMETER NOT TO BE LESS THAN 1/2" LATERAL PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALLOUT TO BE 3/4" PIPE LATERAL PIPE SIZE DIAMETER NOT TO BE LESS THAN 3/4".
11. IT IS THE INTENT THAT BOTH THE CONTROLLER AND THE DECODER BE GROUNDING TO GROUND RODS OR PLANTING WITH LESS THAN 1 OHM RESISTANCE. THE GROUND SHOULD ALWAYS BE MEASURED WITH A GROUND RESISTANCE METER. A "CLAMP ON METER" CANNOT BE USED FOR GROUND MEASUREMENT, SINCE THIS IS AN ISOLATED SYSTEM. GROUND RESISTANCE MEASUREMENTS SHOULD BE PERFORMED WITH A "PALL OF POTENTIAL" TYPE METER IN DECODER SYSTEMS. CONSULT THE CITY OF CHICO AND THE CITY OF CHICO WITH A CERTIFIED GROUNDING REPORT SHOWING THE RESULTS OF THE TEST.
12. CONTRACTOR IS RESPONSIBLE TO PROVIDE, INSTALL, AND HAVE CERTIFIED FULLY FUNCTIONAL, BASELINE CONTROLLERS. CONNECT CONTROLLERS TO THE CITY CENTRAL CONTROL. CONTRACTOR IS RESPONSIBLE FOR WORKING WITH CITY TO MAKE CONNECTION.
13. SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

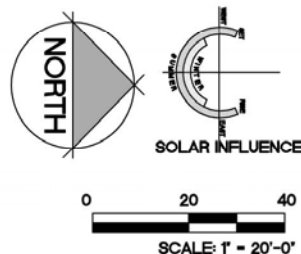


BFLA Project Number: 2414

CITY OF CHICO
PUBLIC WORKS DEPARTMENT



Project Number: 16038	Drawing Number: L-3.10
Scale: PER PLAN Horizontal PER PLAN Vertical	Sheet <u>167</u> of <u>182</u>



IRRIGATION NOTES

1. THIS SYSTEM IS DESIGNED FOR A MAXIMUM DEMAND OF 30 GPM (CLOCK COUPLER VALVES). SEE PRESSURE LOSS CALCULATION, SHEET L-300 FOR ANTICIPATED PRESSURE AT WATER METERS. CONTACT THE LANDSCAPE ARCHITECT IN THE EVENT THAT FIELD TESTED PRESSURES ARE LESS THAN DESIRED, PRIOR TO CONSTRUCTION.
2. THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH, ADJUST CLOCK AS REQUIRED TO ACHIEVE THIS GOAL, AS REQUIRED BY THE TIME OF YEAR.
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4. THIS DRAWING IS DIAGRAMMATIC. IRRIGATION COMPONENTS SHOWN BENEATH PAVING OR PLANTING ARE ASSUMING CLAYT FILL. PLACE ALL PIPING, VALVES, AND OTHER IRRIGATION COMPONENTS WITHIN THE ADJACENT PLANTER EXCEPT WHERE PIPES CROSS PAVING OR PLANTING TO PREVENT CONFLICT WITH SUBSEQUENT PLANTING. REFER TO PLANTING PLAN.
5. CONTRACTOR/OWNER/DEVELOPER ARE RESPONSIBLE TO SUBMIT A FINAL LANDSCAPE PACKAGE INCLUDING AS-BUILTS, PRODUCT AND FITTINGS SUBMITTAL WITH ASSOCIATED MODEL NUMBERS MANUFACTURER AND SPECIFICATIONS, CONTROLLER, VALVES, AND OTHER IRRIGATION COMPONENTS (ELECTRICITY PROGRAMS), AND LAMINATED 11"x17" COLOR-CODED VALUE CHARTS, DIGITAL COPIES OF SUBMITTALS AND MANUALS IS ACCEPTABLE (WITH THE EXCEPTION OF THE LAMINATED VALUE CHART).
6. TRENCH ALL MAIN LINES TO PROVIDE A MINIMUM OF 18" COVER, TRENCH ALL LATERAL LINES TO PROVIDE A MINIMUM COVER OF 12". TRENCH ALL MAIN OR LATERAL LINES TOPSIDE A MINIMUM COVER OF 24" WHERE CROSSING UNDER DRIVEWAY PAVEMENT AND PLACE WITHIN A SCHEDULE 40 ELEC. BOX AS SHOWN.
7. INSTALL BLEEDER WHENS SHOWN ON PLAN AND AT ALL LOCATIONS WHERE IRRIGATION PIPES CROSS BENEATH PAVING, PRIOR TO THE PLACEMENT OF PAVING. COORDINATE WITH PAVING CONTRACTOR.
8. ALL REMOTE CONTROL VALVES, GUN, CLOCK COUPLER VALVES, AND FLUSH VALVES SHALL BE INSTALLED IN PLANTER AND IN VALVE BOXES.
9. CONTRACTOR IS RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANT MATERIAL. INSTALL ADDITIONAL EMITTERS OR ADJUST SPACING AS REQUIRED.
10. MAIN LINE PIPE SIZE DOWNSTREAM OF LAST PIPE CALLOUT TO BE 1 PIPE MAIN LINE PIPE SIZE DIAMETER NOT TO BE LESS THAN 1". LATERAL PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALLOUT TO BE 3/4" PIPE LATERAL PIPE SIZE DIAMETER NOT TO BE LESS THAN 3/4".
11. IT IS IMPORTANT THAT BOTH THE CONTROLLER AND THE DECODERS ARE GROUNDED TO GROUND RODS OR PLATES WITH LESS THAN 10 OHM RESISTANCE. THE GROUND SHOULD ALWAYS BE VERIFIED WITH A CERTIFIED RESISTANCE MEASUREMENT. A CLAMP ON METER CANNOT BE USED FOR GROUND MEASUREMENT, SINCE THIS IS AN ISOLATED SYSTEM, GROUND RESISTANCE MEASUREMENTS SHOULD BE PERFORMED WITH A "FALL OF POTENTIAL" TYPE METER IN DECODER SYSTEMS. COORDINATE IS RESPONSIBLE TO PROVIDE MEASUREMENTS TO THE CITY OF CHICO WITH A CERTIFIED GROUNDING REPORT SHOWING THE RESULTS OF THE TEST.
12. CONTRACTOR IS RESPONSIBLE TO PROVIDE, INSTALL, AND HAVE CERTIFIED FULLY FUNCTIONAL, BASELINE CONTROLLERS, CONNECT CONTROLLERS TO THE CITY CENTRAL CONTROL, CONTRACTOR IS RESPONSIBLE FOR WORKING WITH CITY TO MAKE CONNECTION.
13. SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

IRRIGATION NOTES

1. THIS SYSTEM IS DESIGNED FOR A MAXIMUM DEMAND OF 30 GPM (CLOCK COUPLER VALVES). SEE PRESSURE LOSS CALCULATION, SHEET L-300 FOR ANTICIPATED PRESSURE AT WATER METERS. CONTACT THE LANDSCAPE ARCHITECT IN THE EVENT THAT FIELD TESTED PRESSURES ARE LESS THAN DESIRED, PRIOR TO CONSTRUCTION.
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4. THIS DRAWING IS DIAGRAMMATIC. IRRIGATION COMPONENTS SHOWN BENEATH PAVING OR PLANTING ARE ASSUMING CLAYT FILL. PLACE ALL PIPING, VALVES, AND OTHER IRRIGATION COMPONENTS WITHIN THE ADJACENT PLANTER EXCEPT WHERE PIPES CROSS PAVING OR PLANTING TO PREVENT CONFLICT WITH SUBSEQUENT PLANTING. REFER TO PLANTING PLAN.
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6. TRENCH ALL MAIN LINES TO PROVIDE A MINIMUM OF 18" COVER, TRENCH ALL LATERAL LINES TO PROVIDE A MINIMUM COVER OF 12". TRENCH ALL MAIN OR LATERAL LINES TOPSIDE A MINIMUM COVER OF 24" WHERE CROSSING UNDER DRIVEWAY PAVEMENT AND PLACE WITHIN A SCHEDULE 40 ELEC. BOX AS SHOWN.
7. INSTALL BLEEDER WHENS SHOWN ON PLAN AND AT ALL LOCATIONS WHERE IRRIGATION PIPES CROSS BENEATH PAVING, PRIOR TO THE PLACEMENT OF PAVING. COORDINATE WITH PAVING CONTRACTOR.
8. ALL REMOTE CONTROL VALVES, GUN, CLOCK COUPLER VALVES, AND FLUSH VALVES SHALL BE INSTALLED IN PLANTER AND IN VALVE BOXES.
9. CONTRACTOR IS RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANT MATERIAL. INSTALL ADDITIONAL EMITTERS OR ADJUST SPACING AS REQUIRED.
10. MAIN LINE PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALLOUT TO BE 1 PIPE MAIN LINE PIPE SIZE DIAMETER NOT TO BE LESS THAN 1". LATERAL PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALLOUT TO BE 3/4" PIPE LATERAL PIPE SIZE DIAMETER NOT TO BE LESS THAN 3/4".
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12. CONTRACTOR IS RESPONSIBLE TO PROVIDE, INSTALL, AND HAVE CERTIFIED FULLY FUNCTIONAL, BASELINE CONTROLLERS, CONNECT CONTROLLERS TO THE CITY CENTRAL CONTROL, CONTRACTOR IS RESPONSIBLE FOR WORKING WITH CITY TO MAKE CONNECTION.
13. SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

BFLA Project Number: 2414

CITY OF CHICO
PUBLIC WORKS DEPARTMENT

BRUCE ROAD RECONSTRUCTION
LANDSCAPE IRRIGATION PLAN BRUCE ROAD STA. 67+00 TO 73+00

Project Number: 16038	Drawing Number: L-3.11
Scale:	
PER PLAN Horizontal	PER PLAN Vertical
	Sheet <u>168</u> of <u>182</u>

MATCHLINE: SEE SHEET L-311

VIA MISSION DR.

BRUCE ROAD

CONCORD AVE.

POHOLINE WAY

MATCHLINE: SEE SHEET L-313

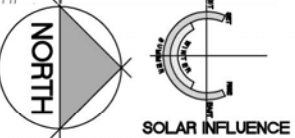
IRRIGATION LEGEND

SYMBOL	DESCRIPTION	MODEL	REMARKS	DETAILS
	WATER POINT OF CONNECTION 'A'		CONNECT TO NEW DEDICATED 2" WATER METER. SEE CIVIL ENGINEER'S PLANS. CONFIRM EXACT LOCATION IN FIELD.	---
	WATER POINT OF CONNECTION 'B'		CONNECT TO EXISTING 2" WATER METER. CONFIRM EXACT LOCATION IN FIELD.	---
	WATER POINT OF CONNECTION 'C'		CONNECT TO NEW DEDICATED 2" WATER METER. SEE CIVIL ENGINEER'S PLANS. CONFIRM EXACT LOCATION IN FIELD.	---
	BACKFLOW PREVENTER 'A'	4750L1 LEAD FREE	2" SIZE. INSTALL IN ENCLOSURE ON CONCRETE PAD. PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE). PROVIDE AND INSTALL INSULATED BLANKET.	L-3-25/ L-3-20
	BACKFLOW PREVENTER 'B'	EXISTING (TO REMAIN)	2" SIZE (VERIFY). VERIFY THAT CERTIFICATION IS CURRENT. FIELD VERIFY SIZE. I PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE) IN THE EVENT THAT PRESSURE EXCEEDS 70 PSF. PROVIDE AND INSTALL INSULATED BLANKET.	---
	BACKFLOW PREVENTER 'C'	4750L1 LEAD FREE	2" SIZE. INSTALL IN ENCLOSURE ON CONCRETE PAD. PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE). PROVIDE AND INSTALL INSULATED BLANKET.	L-3-25/ L-3-20
	FLOWMETER / MASTER VALVE ASSEMBLY 'A'	08200 (LINE SIZE) / ULTRASONIC) WITH BL-5200 DECODER AND ICV 301 VALVE WITH 89-6201 MY DECODER	INSTALL AS PER MANUFACTURER'S SPECIFICATIONS	L-3-27/ L-3-20
	FLOWMETER / MASTER VALVE ASSEMBLY 'B'	EXISTING. RETROFIT WITH A BASELINE BL-5200 DECODER (OR BL-5200 P (ULTRASONIC) AND A 89-6201 MY DECODER AT VALVE	CONTRACTOR RESPONSIBLE TO RE-PROGRAM FLOW SENSING SHUT OFF AT THE CONTROLLER PER THE PARAMETERS OF THE NEW IRRIGATION SYSTEM	---
	FLOWMETER / MASTER VALVE ASSEMBLY 'C'	08200 (LINE SIZE) / ULTRASONIC) WITH BL-5200 DECODER AND ICV 301 VALVE WITH 89-6201 MY DECODER	INSTALL AS PER MANUFACTURER'S SPECIFICATIONS	L-3-27/ L-3-20
	ELECTRICAL POINT OF CONNECTION 'A'	25-000		L-3-46/ L-3-40
	ELECTRICAL POINT OF CONNECTION 'B'	TE INTO POWER SUPPLY FOR EXISTING CONTROLLER. VERIFY EXACT CONDITIONS IN FIELD.		L-3-46/ L-3-20
	ELECTRICAL POINT OF CONNECTION 'C'	25-000		L-3-46/ L-3-20
	CONTROLLER 'A' IN HEAVY DUTY STAINLESS STEEL ENCLOSURE	BASESTATION 5200 SITE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL ENCLOSURE (BL-5200-ES-1M-2M). COMMUNICATION OPTION -CM- CELLULAR MODEL INCLUDES 5 YEAR CENTRAL CONTROL PLATFORM PLAN BL-5200-PLUS-5Y	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO BALDAN, EWING, CHICO 530-588-4675). GROUND PER ASIC EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDESTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	L-3-46/ L-3-20
	CONTROLLER 'B' IN HEAVY DUTY STAINLESS STEEL ENCLOSURE	BASESTATION IRRIGATION CONTROLLER SUBSTATION IN HEAVY DUTY PEDESTAL MOUNT ENCLOSURE (BL-5200-ES-1M-2M IN P-1000 PEDESTAL). COMMUNICATION OPTION -CM- CELLULAR MODEL. CONVENTIONAL WIRE STATIONS ARE REQUIRED TO SERVICE EXISTING VALVES. (SELECT -RSE-, -RSM-, -RSM-, OR -RSM- AS NEEDED). INCLUDE 5 YEAR CENTRAL CONTROL PLATFORM FOR SUBSTATIONS. BL-5200-SUBSTN-5Y	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO BALDAN, EWING, CHICO 530-588-4675). GROUND PER ASIC EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDESTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	L-3-46/ L-3-20
	CONTROLLER 'C' IN HEAVY DUTY STAINLESS STEEL ENCLOSURE	BASESTATION 5200 SITE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL ENCLOSURE (BL-5200-ES-1M-2M). COMMUNICATION OPTION -CM- CELLULAR MODEL INCLUDES 5 YEAR CENTRAL CONTROL PLATFORM PLAN BL-5200-PLUS-5Y	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO BALDAN, EWING, CHICO 530-588-4675). GROUND PER ASIC EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDESTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	L-3-46/ L-3-20
	ISOLATION VALVE	T-10-LF	LINE SIZE. VALVE MUST BE LEAD FREE.	L-3-25/ L-3-21
	QUICK COUPLER VALVE	H3-4470	INSTALL A MINIMUM OF 6 FEET AWAY FROM TREE PLANTINGS EXCEPT WHERE OTHERWISE NOTED. PROVIDE OWNER WITH 2 COMPATIBLE KEYS PRIOR TO CLOSEOUT.	L-3-25/ L-3-21
	DRIP CONTROL ZONE KIT	ABOVE 20.0 GPM IZ 1" P 2 TO 20.0 GPM IZ 1" P BELOW 2.0 GPM IZ 1" P BASELINE 8 BL-5201		L-3-30/ L-3-21
	SINGLE STATION DECODER			
	PRESSURE MAINLINE		PVC SCHEDULE 40	
	NON-PRESSURE LATERAL PIPE		PVC SCHEDULE 40	
	CONTROL WIRE CHASE	1/2" BLUE WIRE DOUBLE JACKETED 1/2" NON-TWISTED.	1-1/2" DAM SCHEDULE 40 PVC CONDUIT WITH HEAVY DUTY DECODER CABLE. USE BLUE JACKET FOR CONTROLLER A, RED JACKET FOR CONTROLLER B, AND GREEN JACKET FOR CONTROLLER C.	L-3-15, L-3-20, L-3-21, L-3-22/ L-3-21
	IRRIGATION SLEEVE		PVC SCHEDULE 40. SIZE PER PLAN	
	PRESSURE COMPENSATING DRIPPERLINE	HXL-08-10-P-10 WITH ECO-WRAP	INSTALL AT 18" LINE SPACING	L-3-38 + L-3-40/ L-3-22
	TRANSITION TO DRIP	FLD-015-18TITE	INSTALL IN CARBON 90 VALVE BOX OR EQUAL. SET ELBOW A MINIMUM OF 1" BELOW TOP OF BOX.	L-3-38/ L-3-22
	FLUSH VALVE	FLD-01	INSTALL IN VALVE BOX AS PER PLANS AND DETAILS	L-3-43/ L-3-22
	DRIPPERLINE AT TREES	HEB-06 AND HXL-08-10	TWO EMITTERS PER TREE. SEE DETAIL.	L-3-44/ L-3-22
	FULL BOX		INSTALL IN CARBON 90 VALVE BOX OR EQUAL. SET ELBOW A MINIMUM OF 1" BELOW TOP OF BOX	L-3-53/ L-3-22
	CONTROLLER GROUNDING/ SURGE ARRESTORS	PAKESPEC GROUND PLATE 162390 BASELINE SURGE ARRESTORS BL-LA01	INSTALL 1 WITHIN 25 FEET OF CONTROLLER AND EVERY 600 FEET AND DECODER CABLE ENDS.	---
	STUB OUT MAINLINE AND CONDUIT		STUB UP LATERAL LINE IN A CARBON 90 VALVE BOX	L-3-25/ L-3-22

SYMBOLS	
	VALVE & CONTROLLER STATION
	VALVE SIZE
	FLOW IN GALLONS PER MINUTE

IRRIGATION NOTES

- THIS SYSTEM IS DESIGNED FOR A MAXIMUM DEMAND OF 30 GPM (QUICK COUPLER VALVES). SEE PRESSURE LOSS CALCULATION SHEET L-300 FOR ANTICIPATED PRESSURE AT WATER METERS. CONTACT THE LANDSCAPE ARCHITECT IN THE EVENT THAT FIELD TESTED PRESSURES ARE LESS THAN STATED, PRIOR TO CONSTRUCTION.
- THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH. ADJUST CLOCK AS REQUIRED TO ACHIEVE THIS GOAL AS REQUIRED BY THE TIME OF YEAR.
- IT IS THE RESPONSIBILITY OF THE LANDSCAPE MAINTENANCE CONTRACTOR AND/OR OWNER TO PROGRAM THE IRRIGATION CONTROLLERS TO PROVIDE THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOUNDS AND SLOPES, AND SUN, SHADE AND WIND EXPOSURES.
- THIS DRAWING IS DIAGNOSTIC. IRRIGATION COMPONENTS SHOWN BENEATH PAVING OR PLANTINGS ARE FOR GRAPHIC CLARITY ONLY. PLACE ALL PIPING, VALVES, AND OTHER IRRIGATION COMPONENTS WITHIN THE ADJACENT PLANTER EXCEPT WHERE PIPES CROSS PAVING. PLACE PIPING TO PREVENT CONFLICT WITH SUBSEQUENT PLANTING. REFER TO PLANTING PLAN.
- CONTRACTORS/DEVELOPERS ARE RESPONSIBLE TO SUBMIT A FINAL LANDSCAPE PACKAGE INCLUDING AS-BUILTS, PRODUCT AND FIXTURES SUBMITTAL WITH ASSOCIATED MODEL NUMBERS MANUFACTURER INFORMATION/SPECIFICATIONS, CONTROLLER IRRIGATION VALVE ID AND DESCRIPTION LIST, PROGRAMS, AND LAMINATED 11"x17" COLOR-CODED VALVE CHART(S). DIGITAL COPIES OF SUBMITTALS AND MANUALS IS ACCEPTABLE (WITH THE EXCEPTION OF THE LAMINATED VALVE CHART).
- TRENCH ALL MAIN LINES TO PROVIDE A MINIMUM OF 18" COVER. TRENCH ALL LATERAL LINES TO PROVIDE A MINIMUM COVER OF 12". TRENCH ALL MAIN OR LATERAL LINES TO PROVIDE A MINIMUM COVER OF 24" WHERE CROSSING UNDER DRIVEWAY PAVEMENT AND PLACE WITHIN A SCHEDULE 40 SLEEVE, SIZE AS SHOWN.
- INSTALL SLEEVES WHERE SHOWN ON PLAN AND AT ALL LOCATIONS WHERE IRRIGATION PIPES CROSS BENEATH PAVING, PRIOR TO THE PLACEMENT OF PAVING. COORDINATE WITH PAVING CONTRACTOR.
- ALL REMOTE CONTROL VALVES, QUICK COUPLER VALVES, AND FLUSH VALVES SHALL BE INSTALLED IN PLANTER AND IN VALVE BOXES.
- CONTRACTOR IS RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANT MATERIAL. INSTALL ADDITIONAL EMITTERS OR ADJUST SPACING AS REQUIRED.
- MAIN LINE PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALLOUT TO BE 1" PIPE (MAIN LINE PIPE SIZE DIAMETER NOT TO BE LESS THAN 1"). LATERAL PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALLOUT TO BE 3/4" PIPE (LATERAL PIPE SIZE DIAMETER NOT TO BE LESS THAN 3/4").
- IT IS IMPORTANT THAT BOTH THE CONTROLLER AND THE DECODERS ARE GROUNDED TO GROUND RODS OR PLATES WITH LESS THAN 10 OHMS RESISTANCE. THE GROUND SHOULD ALWAYS BE MEASURED WITH A GROUND RESISTANCE METER. A "CLAMP ON METER" CANNOT BE USED FOR GROUND MEASUREMENT, SINCE THIS IS AN ISOLATED SYSTEM. GROUND RESISTANCE MEASUREMENTS SHOULD BE PERFORMED WITH A "FALL OF POTENTIAL" TYPE METER IN DECODER SYSTEMS. CONTRACTOR IS RESPONSIBLE TO PROVIDE THE OWNER AND THE CITY OF CHICO WITH A CERTIFIED GROUNDING REPORT SHOWING THE RESULTS OF THE TEST.
- CONTRACTOR IS RESPONSIBLE TO PROVIDE, INSTALL, AND HAVE CERTIFIED FULLY FUNCTIONAL. BASELINE CONTROLLERS. CONNECT CONTROLLERS TO THE CITY CENTRAL CONTROL. CONTRACTOR IS RESPONSIBLE FOR WORKING WITH CITY TO MAKE CONNECTION.
- SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.



0 20 40
SCALE: 1" = 20'-0"

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BFLA Project Number: 2414

Designed: JBB	Approved:	Revision	Date	By
Drawn By: JBB/ TDB	Date: 12-6-2023			
Checked: JBB				

CITY OF CHICO
PUBLIC WORKS DEPARTMENT



BRUCE ROAD RECONSTRUCTION
LANDSCAPE IRRIGATION PLAN BRUCE ROAD STA. 73+00 TO 79+00

Project Number: 16038	Drawing Number: L-312
Scale: PER PLAN Horizontal	Sheet 169 of 182

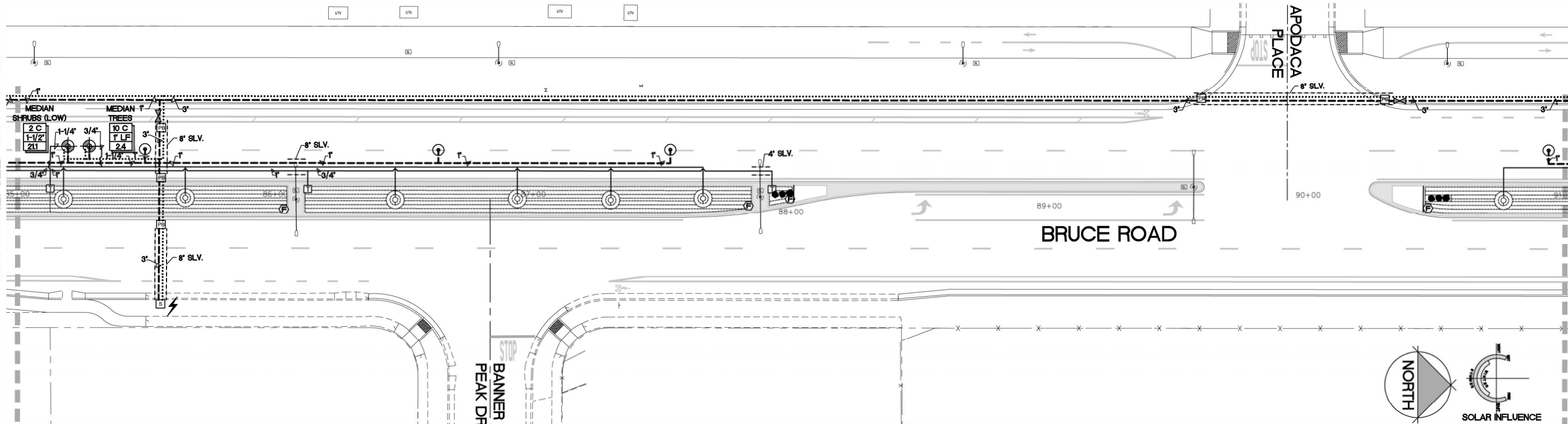
MATCHLINE SEE SHEET L-312

MATCHLINE SEE SHEET L-314

IRRIGATION LEGEND					
SYMBOL	NOTATION	DESCRIPTION	MODEL	REMARKS	DETAILS
⊗		WATER POINT OF CONNECTION 'X'		CONNECT TO NEW DEDICATED 2" WATER METER, SEE CML ENGINEERING PLANS, CONFIRM EXACT LOCATION IN FIELD.	---
⊗		WATER POINT OF CONNECTION 'Y'		CONNECT TO EXISTING 2" WATER METER, CONFIRM EXACT LOCATION IN FIELD.	---
⊗		WATER POINT OF CONNECTION 'Z'		CONNECT TO NEW DEDICATED 2" WATER METER, SEE CML ENGINEERING PLANS, CONFIRM EXACT LOCATION IN FIELD.	---
⊗	W/300	BACKFLOW PREVENTER 'X'	STW-2 LEAD FREE	2" SIZE, INSTALL IN ENCLOSURE ON CONCRETE PAD, PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR LINE SIZES, PROVIDE AND INSTALL INSULATED BLANKET.	L-30/ L-30/2
⊗	EXT/300	BACKFLOW PREVENTER 'Y'	EXT/300 LEAD FREE	2" SIZE (VERIFY), VERIFY THAT CERTIFICATION IS CURRENT, FIELD VERIFY SIZE, 1" PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR LINE SIZES IN THE EVENT THAT PRESSURE EXCEEDS TO PSI, PROVIDE AND INSTALL INSULATED BLANKET.	L-30/ L-30/2
⊗	W/300	BACKFLOW PREVENTER 'Z'	STW-2 LEAD FREE	2" SIZE, INSTALL IN ENCLOSURE ON CONCRETE PAD, PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR LINE SIZES, PROVIDE AND INSTALL INSULATED BLANKET.	L-30/ L-30/2
⊗	FL/300	FLOW SENSING / WATER VALVE ASSEMBLY 'X'	ORION LINE SIZES ULTRASONIC WITH BL-4000 DECODER AND EX-90 VALVE WITH 80-8001-01 DECODER	INSTALL AS PER MANUFACTURER'S SPECIFICATIONS	L-30/ L-30/2
⊗	EXT/300	FLOW SENSING / WATER VALVE ASSEMBLY 'Y'	ORION LINE SIZES ULTRASONIC WITH BL-4000 DECODER OR EX-90 VALVE WITH 80-8001-01 DECODER	CONTRACTOR RESPONSIBLE TO RE-PROGRAM FLOW SENSING SHUT OFF AT THE CONTROLLER PER THE PARAMETERS OF THE NEW IRRIGATION SYSTEM	L-30/ L-30/2
⊗	FL/300	FLOW SENSING / WATER VALVE ASSEMBLY 'Z'	ORION LINE SIZES ULTRASONIC WITH BL-4000 DECODER AND EX-90 VALVE WITH 80-8001-01 DECODER	INSTALL AS PER MANUFACTURER'S SPECIFICATIONS	L-30/ L-30/2
⊗	TER/300	ELECTRICAL POINT OF CONNECTION 'X'	80-800		---
⊗	---	ELECTRICAL POINT OF CONNECTION 'Y'	TER-800 POWER SUPPLY FOR EXISTING CONTROLLER, VERIFY EXACT LOCATION IN FIELD		---
⊗	TER/300	ELECTRICAL POINT OF CONNECTION 'Z'	80-800		---
⊗	BASELINE	CONTROLLER 'X'	MANUFACTURER'S SITE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL, ENCLOSED IN 48"X48"X48" COMMUNICATIONS CABINET, 1"X4" CELLULAR MODEM, INCLUDE 1 YEAR CENTRAL CONTROL PLATFORM FOR SUBSTATIONS, BL-4000 SUBSTATION	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO BALAZAR, DING, CHICO 920-598-4675), GROUND PER AND EARTH GROUNDING GUIDELINES 900-2002 AND MANUFACTURER'S SPECIFICATIONS, INSTALL TERMINAL, STRIPS, THERMALLY ACTIVATED FAN POWER CONDITIONER, AND GFI OUTLET WITHIN FEEDBACK, CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SIZES	L-30/ L-30/2
⊗	BASELINE	CONTROLLER 'Y'	MANUFACTURER'S SITE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL, ENCLOSED IN 48"X48"X48" COMMUNICATIONS CABINET, 1"X4" CELLULAR MODEM, INCLUDE 1 YEAR CENTRAL CONTROL PLATFORM FOR SUBSTATIONS, BL-4000 SUBSTATION	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO BALAZAR, DING, CHICO 920-598-4675), GROUND PER AND EARTH GROUNDING GUIDELINES 900-2002 AND MANUFACTURER'S SPECIFICATIONS, INSTALL TERMINAL, STRIPS, THERMALLY ACTIVATED FAN POWER CONDITIONER, AND GFI OUTLET WITHIN FEEDBACK, CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SIZES	L-30/ L-30/2
⊗	BASELINE	CONTROLLER 'Z'	MANUFACTURER'S SITE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL, ENCLOSED IN 48"X48"X48" COMMUNICATIONS CABINET, 1"X4" CELLULAR MODEM, INCLUDE 1 YEAR CENTRAL CONTROL PLATFORM FOR SUBSTATIONS, BL-4000 SUBSTATION	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO BALAZAR, DING, CHICO 920-598-4675), GROUND PER AND EARTH GROUNDING GUIDELINES 900-2002 AND MANUFACTURER'S SPECIFICATIONS, INSTALL TERMINAL, STRIPS, THERMALLY ACTIVATED FAN POWER CONDITIONER, AND GFI OUTLET WITHIN FEEDBACK, CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SIZES	L-30/ L-30/2
⊗	ISO/300	ISOLATION VALVE	T-80-LP	LINE SIZE, VALVE MUST BE LEAD FREE.	L-30/ L-30/2
⊗	ISO/300	ORION COUPLER VALVE	HO-40-LP	INSTALL A MINIMUM OF 6 FEET AWAY FROM THESE PLANTINGS EXCEPT WHERE OTHERWISE NOTED, PROVIDE OWNER WITH 2 COMPATIBLE KEYS PRIOR TO CLOSURE.	L-30/ L-30/2
⊗	ISO/300	DMP CONTROL ZONE KIT	ABOVE GROUND KIT 1-P, 2-P, 3-P, 4-P, 5-P, 6-P, 7-P, 8-P, 9-P, 10-P, 11-P, 12-P, 13-P, 14-P, 15-P, 16-P, 17-P, 18-P, 19-P, 20-P, 21-P, 22-P, 23-P, 24-P, 25-P, 26-P, 27-P, 28-P, 29-P, 30-P, 31-P, 32-P, 33-P, 34-P, 35-P, 36-P, 37-P, 38-P, 39-P, 40-P, 41-P, 42-P, 43-P, 44-P, 45-P, 46-P, 47-P, 48-P, 49-P, 50-P, 51-P, 52-P, 53-P, 54-P, 55-P, 56-P, 57-P, 58-P, 59-P, 60-P, 61-P, 62-P, 63-P, 64-P, 65-P, 66-P, 67-P, 68-P, 69-P, 70-P, 71-P, 72-P, 73-P, 74-P, 75-P, 76-P, 77-P, 78-P, 79-P, 80-P, 81-P, 82-P, 83-P, 84-P, 85-P, 86-P, 87-P, 88-P, 89-P, 90-P, 91-P, 92-P, 93-P, 94-P, 95-P, 96-P, 97-P, 98-P, 99-P, 100-P, 101-P, 102-P, 103-P, 104-P, 105-P, 106-P, 107-P, 108-P, 109-P, 110-P, 111-P, 112-P, 113-P, 114-P, 115-P, 116-P, 117-P, 118-P, 119-P, 120-P, 121-P, 122-P, 123-P, 124-P, 125-P, 126-P, 127-P, 128-P, 129-P, 130-P, 131-P, 132-P, 133-P, 134-P, 135-P, 136-P, 137-P, 138-P, 139-P, 140-P, 141-P, 142-P, 143-P, 144-P, 145-P, 146-P, 147-P, 148-P, 149-P, 150-P, 151-P, 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MATCHLINE SEE SHEET L-3.13

MATCHLINE SEE SHEET L-3.15

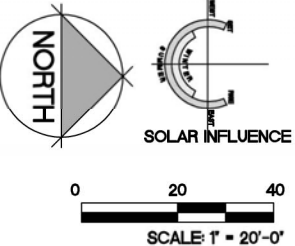


IRRIGATION LEGEND

SYM.	MFQR	DESCRIPTION	MODEL	REMARKS	DETAILS
⊗		WATER POINT OF CONNECTION 'A'		CONNECT TO NEW DEDICATED 2" WATER METER, SEE CIVIL ENGINEER'S PLANS, CONFIRM EXACT LOCATION IN FIELD.	—
⊗		WATER POINT OF CONNECTION 'B'		CONNECT TO EXISTING 2" WATER METER, CONFIRM EXACT LOCATION IN FIELD.	—
⊗		WATER POINT OF CONNECTION 'C'		CONNECT TO NEW DEDICATED 2" WATER METER, SEE CIVIL ENGINEER'S PLANS, CONFIRM EXACT LOCATION IN FIELD.	—
⊗	WILSON	BACKFLOW PREVENTER 'A'	4704LS LEAD FREE	2" SIZE. INSTALL IN ENCLOSURE ON CONCRETE PAD, PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE), PROVIDE AND INSTALL INSULATED BLANKET.	L8-28/ L-320
⊗	EXISTING	BACKFLOW PREVENTER 'B'	EXISTING (TO REMAIN)	2" SIZE (VERIFY). VERIFY THAT CERTIFICATION IS CURRENT. FIELD VERIFY SIZE. 1 PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE) IN THE EVENT THAT PRESSURE EXCEEDS 70 PSI, PROVIDE AND INSTALL INSULATED BLANKET.	—
⊗	WILSON	BACKFLOW PREVENTER 'C'	4704LS LEAD FREE	2" SIZE. INSTALL IN ENCLOSURE ON CONCRETE PAD, PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE), PROVIDE AND INSTALL INSULATED BLANKET.	L8-28/ L-320
⊗	FLOWMATIC HANTER	FLOW SENSING / MASTER VALVE ASSEMBLY 'A'	08200 (LINE SIZE) (ULTRASONIC) WITH BL-8200 DECODER AND ICV 801 VALVE WITH 88-8201 MV DECODER	INSTALL, AS PER MANUFACTURER'S SPECIFICATIONS	L8-27/ L-320
⊗	EXISTING	FLOW SENSING / MASTER VALVE ASSEMBLY 'B'	EXISTING, RETROFIT WITH A BASELINE BL-8200 DECODER (OR BL-8200 IF ULTRASONIC) AND A 88-8201 MV DECODER AT VALVE	CONTRACTOR RESPONSIBLE TO RE-PROGRAM FLOW SENSING SHUT OFF AT THE CONTROLLER PER THE PARAMETERS OF THE NEW IRRIGATION SYSTEM	—
⊗	FLOWMATIC HANTER	FLOW SENSING / MASTER VALVE ASSEMBLY 'C'	08200 (LINE SIZE) (ULTRASONIC) WITH BL-8200 DECODER AND ICV 801 VALVE WITH 88-8201 MV DECODER	INSTALL, AS PER MANUFACTURER'S SPECIFICATIONS	L8-27/ L-320
⊗	TESCO	ELECTRICAL POINT OF CONNECTION 'A'	28-000		L8-28/ L-320
⊗	—	ELECTRICAL POINT OF CONNECTION 'B'	TE INTO POWER SUPPLY FOR EXISTING CONTROLLER, VERIFY EXACT CONDITIONS IN FIELD		L8-28/ L-320
⊗	TESCO	ELECTRICAL POINT OF CONNECTION 'C'	28-000		L8-28/ L-320
⊗	BASELINE STRONGBOX	CONTROLLER 'A' IN HEAVY DUTY STAINLESS STEEL ENCLOSURE	BASESTATION 3200 SITE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL ENCLOSURE BL-3200-EB-1M-2M5, COMMUNICATION OPTION -CM CELLULAR MODEM INCLUDES 5 YEAR CENTRAL CONTROL PLATFORM PLAN BL-3200-PLUS-5Y	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO SALGIAN, EWING, CHICO 530-588-4678). GROUND PER ASCE EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDISTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	L8-46/ L-320
⊗	BASELINE STRONGBOX	CONTROLLER 'B' IN HEAVY DUTY STAINLESS STEEL ENCLOSURE	BASESTATION IRRIGATION CONTROLLER SUBSTATION IN HEAVY DUTY PEDISTAL MOUNT ENCLOSURE BL-4600-1M-2M IN P-1600 PEDISTAL COMMUNICATION OPTION -CM CELLULAR MODEM, CONVENTIONAL WIRE STATIONS ARE REQUIRED TO SERVICE EXISTING VALVES, SELECT 1-1M, 1-4M, 1-6M, OR 1-8M AS NEEDED, INCLUDE 5 YEAR CENTRAL CONTROL PLATFORM FOR SUBSTATIONS: BL-4600-SUBSTN-5Y	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH WIRELESS INTERNET CONNECTION AND SATELLITE CONTROLLERS, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO SALGIAN, EWING, CHICO 530-588-4678). GROUND PER ASCE EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDISTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	L8-46/ L-320
⊗	BASELINE STRONGBOX	CONTROLLER 'C' IN HEAVY DUTY STAINLESS STEEL ENCLOSURE	BASESTATION 3200 SITE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL ENCLOSURE BL-3200-EB-1M-2M5, COMMUNICATION OPTION -CM CELLULAR MODEM INCLUDES 5 YEAR CENTRAL CONTROL PLATFORM PLAN BL-3200-PLUS-5Y	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO SALGIAN, EWING, CHICO 530-588-4678). GROUND PER ASCE EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDISTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	L8-46/ L-320
⊗	ISCO	ISOLATION VALVE	T-59-LF	LINE SIZE VALVE MUST BE LEAD FREE	L8-26/ L-321
⊗	HANTER	QUICK COUPLER VALVE	HD-46/RC	INSTALL A MINIMUM OF 6 FEET AWAY FROM TREE PLANTINGS EXCEPT WHERE OTHERWISE NOTED. PROVIDE OWNER WITH 2 COMPATIBLE KEYS PRIOR TO CLOSURE.	L8-28/ L-321
⊗	HANTER/ BASELINE	DWP CONTROL ZONE KIT	ABOVE 30 GPM, KIT 1P 2 TO 30 GPM, KIT 1-LP BELOW 1 GPM, KIT 1-LP BASELINE BL-8201	—	L8-30/ L-321
⊗	—	SINGLE STATION DECODER	—	—	—
⊗	—	PRESSURE MAINLINE	—	PVC SCHEDULE 40	—
⊗	—	NON-PRESSURE LATERAL PIPE	—	PVC SCHEDULE 40	L8-38/ L8-20/ L8-21 + L8-22/ L-321
⊗	—	CONTROL WIRE CHASE	1/2" BLUE WIRE, DOUBLE JACKETED 1/2" NON-TWISTED.	1-1/2" DIAM SCHEDULE 40 PVC CONDUIT WITH HEAVY DUTY DECODER CABLE, USE BLUE JACKET FOR CONTROLLER A, RED JACKET FOR CONTROLLER B, AND GREEN JACKET FOR CONTROLLER C.	—
⊗	—	IRRIGATION SLEEVE	—	PVC SCHEDULE 40, SIZE PER PLAN	—
⊗	HANTER	PRESSURE COMPENSATING DIFFUSERLINE	HDL-06-18-PVC WITH ECO-WRAP	INSTALL AT 18" LINE SPACING	L8-38 + L8-40/ L-322
⊗	HANTER	TRANSITION TO DWP	FLD-075-18TSE	INSTALL IN CARBON 90 VALVE BOX OR EQUAL SET ELBOW A MINIMUM OF 1' BELOW TOP OF BOX	L8-38/ L-322
⊗	HANTER	FLUSH VALVE	FLD-8V	INSTALL IN VALVE BOX AS PER PLANS AND DETAILS	L8-43/ L-322
⊗	HANTER	DIFFUSERLINE AT TREES	HES-06 AND HDL-06-12	TWO EMITTERS PER TREE, SEE DETAIL	L8-44/ L-322
⊗	—	PULL BOX	—	INSTALL IN CARBON 90 VALVE BOX OR EQUAL SET ELBOW A MINIMUM OF 1' BELOW TOP OF BOX	L8-43/ L-322
⊗	BASELINE/ PAVE	CONTROLLER GROUNDING/ SURGE ARRESTORS	PAKESPEC GROUND PLATE 122540C BASELINE SURGE ARRESTORS BL-LA01	INSTALL 1' WITHIN 25 FEET OF CONTROLLER AND EVERY 600 FEET AND DECODER CABLE ENDS.	—
⊗	—	STUB OUT MAINLINE AND CONDUIT	—	STUB UP LATERAL LINE IN A CARBON 90 VALVE BOX	L8-28/ L-322
SYMBOLS					
⊗	1	—	VALVE @ CONTROLLER STATION	—	—
⊗	1-1/2"	—	VALVE SIZE	—	—
⊗	28.4	—	FLOW IN GALLONS PER MINUTE	—	—

IRRIGATION NOTES

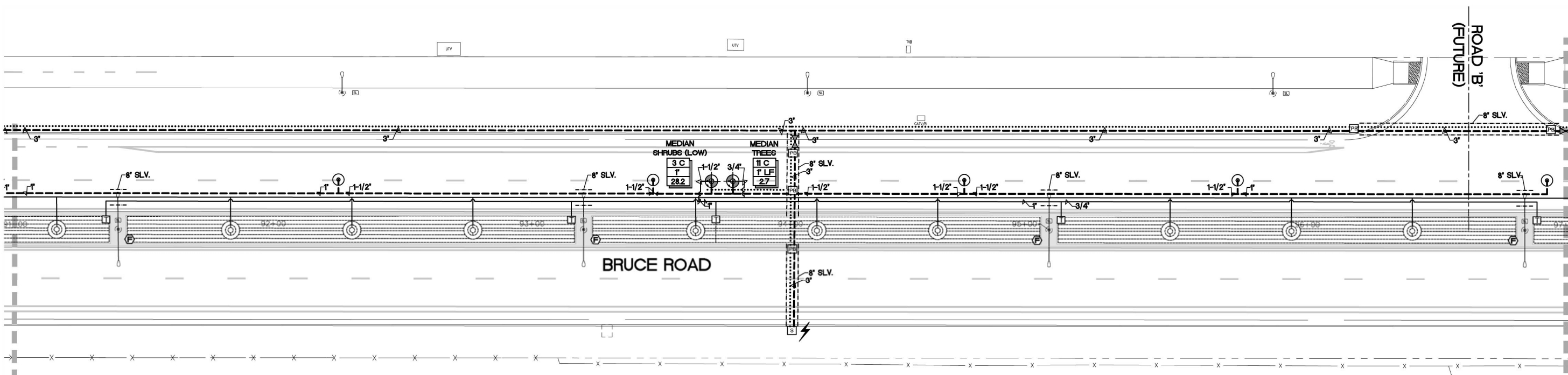
- THIS SYSTEM IS DESIGNED FOR A MAXIMUM DEMAND OF 30 GPM (QUICK COUPLER VALVE). SEE PRESSURE LOSS CALCULATION, SHEET L-3.00 FOR ANTICIPATED PRESSURE AT WATER METERS. CONTACT THE LANDSCAPE ARCHITECT IN THE EVENT THAT FIELD TESTED PRESSURES ARE LESS THAN STATED, PRIOR TO CONSTRUCTION.
- THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOUNDS AND SLOPES, AND SUN, SHADE AND WIND EXPOSURES.
- IT IS THE RESPONSIBILITY OF THE LANDSCAPE MAINTENANCE CONTRACTOR AND/OR OWNER TO PROGRAM THE IRRIGATION CONTROLLERS TO PROVIDE THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOUNDS AND SLOPES, AND SUN, SHADE AND WIND EXPOSURES.
- THIS DRAWING IS DIAGRAMMATIC. IRRIGATION COMPONENTS SHOWN BENEATH PAVING OR PLANTINGS ARE FOR GRAPHIC CLARITY ONLY. PLACE ALL PIPING, VALVES, AND OTHER IRRIGATION COMPONENTS WITHIN THE ADJACENT PLANTER EXCEPT WHERE PIPES CROSS PAVING, PLACE PIPING TO PREVENT CONFLICT WITH SUBSEQUENT PLANTING. REFER TO PLANTING PLAN.
- CONTRACTORS/DEVELOPERS ARE RESPONSIBLE TO SUBMIT A FINAL LANDSCAPE PACKAGE INCLUDING AS-BUILTS, PRODUCT AND PICTURES SUBMITTAL WITH ASSOCIATED MODEL NUMBERS MANUFACTURER INFORMATION/SPECIFICATIONS, CONTROLLER IRRIGATION VALVE ID AND DESCRIPTION LIST, PROGRAMS, AND LAMINATED 8"X10" COLOR-CODED VALVE CHART(S). DIGITAL COPIES OF SUBMITTALS AND MANUALS IS ACCEPTABLE (WITH THE EXCEPTION OF THE LAMINATED VALVE CHART).
- TRENCH ALL MAIN LINES TO PROVIDE A MINIMUM OF 18" COVER. TRENCH ALL LATERAL LINES TO PROVIDE A MINIMUM COVER OF 12". TRENCH ALL MAIN OR LATERAL LINES TO PROVIDE A MINIMUM COVER OF 24" WHERE CROSSING UNDER DRIVEWAY PAVEMENT AND PLACE WITHIN A SCHEDULE 40 SLEEVE, SIZE AS SHOWN.
- INSTALL SLEEVES WHERE SHOWN ON PLAN AND AT ALL LOCATIONS WHERE IRRIGATION PIPES CROSS BENEATH PAVING, PRIOR TO THE PLACEMENT OF PAVING. COORDINATE WITH PAVING CONTRACTOR.
- ALL REMOTE CONTROL VALVES, QUICK COUPLER VALVES, AND FLUSH VALVES SHALL BE INSTALLED IN PLANTER AND IN VALVE BOXES.
- CONTRACTOR IS RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANT MATERIAL. INSTALL ADDITIONAL EMITTERS OR ADJUST SPACING AS REQUIRED.
- MAIN LINE PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALLOUT TO BE 1" PIPE (MAIN LINE PIPE SIZE DIAMETER NOT TO BE LESS THAN 1"). LATERAL PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALLOUT TO BE 3/4" PIPE (LATERAL PIPE SIZE DIAMETER NOT TO BE LESS THAN 3/4").
- IT IS IMPORTANT THAT BOTH THE CONTROLLER AND THE DECODERS ARE GROUNDED TO GROUND RODS OR PLATES WITH LESS THAN 10 OHM RESISTANCE. THE GROUND SHOULD ALWAYS BE MEASURED WITH A GROUND RESISTANCE METER. A "CLAMP ON METER" CANNOT BE USED FOR GROUND MEASUREMENT, SINCE THIS IS AN ISOLATED SYSTEM. GROUND RESISTANCE MEASUREMENTS SHOULD BE PERFORMED WITH A "FALL OF POTENTIAL" TYPE METER IN DECODER SYSTEMS. CONTRACTOR IS RESPONSIBLE TO PROVIDE THE OWNER AND THE CITY OF CHICO WITH A CERTIFIED GROUNDING REPORT SHOWING THE RESULTS OF THE TEST.
- CONTRACTOR IS RESPONSIBLE TO PROVIDE, INSTALL, AND HAVE CERTIFIED FULLY FUNCTIONAL BASELINE CONTROLLERS, CONNECT CONTROLLERS TO THE CITY CENTRAL CONTROL. CONTRACTOR IS RESPONSIBLE FOR WORKING WITH CITY TO MAKE CONNECTION.
- SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.



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MATCHLINE SEE SHEET L-314

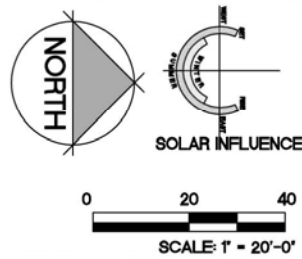
MATCHLINE SEE SHEET L-316



IRRIGATION LEGEND

SYM.	MFGR	DESCRIPTION	MODEL	REMARKS	DETAILS
⊗		WATER POINT OF CONNECTION 'A'		CONNECT TO NEW DEDICATED 2" WATER METER. SEE CML ENGINEERS PLANS. CONFIRM EXACT LOCATION IN FIELD.	—
⊗		WATER POINT OF CONNECTION 'B'		CONNECT TO EXISTING 2" WATER METER. CONFIRM EXACT LOCATION IN FIELD.	—
⊗		WATER POINT OF CONNECTION 'C'		CONNECT TO NEW DEDICATED 2" WATER METER. SEE CML ENGINEERS PLANS. CONFIRM EXACT LOCATION IN FIELD.	—
BP	WILSON	BACKFLOW PREVENTER 'A'	870LLS LEAD FREE	2" SIZE. INSTALL IN ENCLOSURE ON CONCRETE PAD. PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE). PROVIDE AND INSTALL INSULATED BLANKET.	L8-25/ L-320
BP	EXISTING	BACKFLOW PREVENTER 'B'	EXISTING TO REMAIN	2" SIZE (VERIFY). VERIFY THAT CERTIFICATION IS CURRENT. FIELD VERIFY SIZE. I PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE) IN THE EVENT THAT PRESSURE EXCEEDS 70 PSI. PROVIDE AND INSTALL INSULATED BLANKET.	—
BP	WILSON	BACKFLOW PREVENTER 'C'	870LLS LEAD FREE	2" SIZE. INSTALL IN ENCLOSURE ON CONCRETE PAD. PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE). PROVIDE AND INSTALL INSULATED BLANKET.	L8-25/ L-320
FM	FLOWMETER HUNTER	FLOW SENSING / MASTER VALVE ASSEMBLY 'A'	Q8200 (LINE SIZE) / ULTRASONIC) WITH BL-4309 DECODER AND KEY 302 VALVE WITH 89-4301 MY DECODER	INSTALL AS PER MANUFACTURER'S SPECIFICATIONS	L8-27/ L-320
FM	EXISTING	FLOW SENSING / MASTER VALVE ASSEMBLY 'B'	EXISTING. RETROFIT WITH A BASELINE BL-4309 DECODER (OR BL-4309 F" ULTRASONIC) AND A 89-4301 MY DECODER AT VALVE	CONTRACTOR RESPONSIBLE TO RE-PROGRAM FLOW SENSING SHUT OFF AT THE CONTROLLER PER THE PARAMETERS OF THE NEW IRRIGATION SYSTEM	—
FM	FLOWMETER HUNTER	FLOW SENSING / MASTER VALVE ASSEMBLY 'C'	Q8200 (LINE SIZE) / ULTRASONIC) WITH BL-4309 DECODER AND KEY 302 VALVE WITH 89-4301 MY DECODER	INSTALL AS PER MANUFACTURER'S SPECIFICATIONS	L8-27/ L-320
E	TESCO	ELECTRICAL POINT OF CONNECTION 'A'	25-000		L8-46/ L-320
E	—	ELECTRICAL POINT OF CONNECTION 'B'	TE INTO POWER SUPPLY FOR EXISTING CONTROLLER. VERIFY EXACT CONDITIONS IN FIELD.		L-320
E	TESCO	ELECTRICAL POINT OF CONNECTION 'C'	25-000		L8-46/ L-320
C	BASELINE (STRONGBOX)	CONTROLLER 'A' IN HEAVY DUTY STAINLESS STEEL ENCLOSURE	BASELATION 5200 SITE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL ENCLOSURE BL-4309-ES-994-4301. COMMUNICATION OPTION -CM- CELLULAR MODEL INCLUDE 5 YEAR CENTRAL CONTROL PLATFORM PLAN BL-9942-PLUS-5Y	AFTER CONFIRMING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO SALGIAN, EWING, CHICO 530-588-4075). GROUND PER ASIC EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDESTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	L8-46/ L-320
C	BASELINE (STRONGBOX)	CONTROLLER 'B' IN HEAVY DUTY STAINLESS STEEL ENCLOSURE	BASELATION 5200 SITE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL ENCLOSURE BL-4309-ES-994-4301. COMMUNICATION OPTION -CM- CELLULAR MODEL INCLUDE 5 YEAR CENTRAL CONTROL PLATFORM PLAN BL-9942-PLUS-5Y	AFTER CONFIRMING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH WIRELESS INTERNET CONNECTION AND SATELLITE CONTROLLERS, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO SALGIAN, EWING, CHICO 530-588-4075). GROUND PER ASIC EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDESTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	L8-46/ L-320
C	BASELINE (STRONGBOX)	CONTROLLER 'C' IN HEAVY DUTY STAINLESS STEEL ENCLOSURE	BASELATION 5200 SITE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL ENCLOSURE BL-4309-ES-994-4301. COMMUNICATION OPTION -CM- CELLULAR MODEL INCLUDE 5 YEAR CENTRAL CONTROL PLATFORM PLAN BL-9942-PLUS-5Y	AFTER CONFIRMING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO SALGIAN, EWING, CHICO 530-588-4075). GROUND PER ASIC EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDESTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	L8-46/ L-320
ISV	ISCO	ISOLATION VALVE	T-19-LF	LINE SIZE. VALVE MUST BE LEAD FREE.	L8-26/ L-321
HC	HUNTER	QUICK COUPLER VALVE	HO-4430	INSTALL A MINIMUM OF 6 FEET AWAY FROM TREE PLANTINGS EXCEPT WHERE OTHERWISE NOTED. PROVIDE OWNER WITH 2 COMPATIBLE KEYS PRIOR TO CLOSEOUT.	L8-26/ L-321
HC	HUNTER/ BASELINE	DRIP CONTROL ZONE KIT	ABOVE 30 GPM SIZE UP 2 TO 30 GPM SIZE T-LP BELOW 30 GPM SIZE T-LP	—	L8-30/ L-321
SD	—	SINGLE STATION DECODER	BASELINE 8 BL-4301		—
—	—	PRESSURE MAINLINE		PVC SCHEDULE 40	—
—	—	NON-PRESSURE LATERAL PIPE		PVC SCHEDULE 40	L8-30, L8-20, L8-21 + L8-22/ L-321
—	—	CONTROL WIRE CHASE	1/2" BLUE WIRE DOUBLE JACKETED W/2 NON-TWISTED.	1/2" DIAM SCHEDULE 40 PVC CONDUIT WITH HEAVY DUTY DECODER CABLE. USE BLUE JACKET FOR CONTROLLER A, RED JACKET FOR CONTROLLER B, AND GREEN JACKET FOR CONTROLLER C.	—
—	—	IRRIGATION SLEEVE		PVC SCHEDULE 40. SIZE PER PLAN	—
H	HUNTER	PRESSURE COMPENSATING DIFFERENTIAL	HDL-08-16-PC WITH ECO-WRAP	INSTALL AT 9" LINE SPACING	L8-38 + L8-40/ L-322
T	HUNTER	TRANSITION TO DRIP	PLD-075-1515E	INSTALL IN CARBON 90 VALVE BOX OR EQUAL SET ELBOW A MINIMUM OF 1" BELOW TOP OF BOX	L8-36/ L-322
F	HUNTER	FLUSH VALVE	PLD-8Y	INSTALL IN VALVE BOX AS PER PLANS AND DETAILS	L8-43/ L-322
H	HUNTER	DRIPPERLINE AT TREES	HES-06 AND HDL-06-02	TWO EMITTERS PER TREE. SEE DETAIL.	L8-44/ L-322
DB	—	PULL BOX		INSTALL IN CARBON 90 VALVE BOX OR EQUAL SET ELBOW A MINIMUM OF 1" BELOW TOP OF BOX	L8-63/ L-322
⚡	BASELINE/ FAIRBANK	CONTROLLER GROUNDING/ SURGE ARRESTORS	FAIRBANKS GROUND PLATE RESISTANCE BASELINE SURGE ARRESTOR BL-LA01	INSTALL 1 WITHIN 25 FEET OF CONTROLLER AND EVERY 600 FEET AND DECODER CABLE ENDS.	—
—	—	STUB OUT MAINLINE AND CONDUIT		STUB UP LATERAL LINE IN A CARBON 90 VALVE BOX	L8-25/ L-322

1	—	VALVE/CONTROLLER STATION
1-1/2"	—	VALVE SIZE
28.4	—	FLOW IN GALLONS PER MINUTE



IRRIGATION NOTES

- THIS SYSTEM IS DESIGNED FOR A MAXIMUM DEMAND OF 30 GPM (QUICK COUPLER VALVE). SEE PRESSURE LOSS CALCULATION, SHEET L-300 FOR ANTICIPATED PRESSURE AT WATER METERS. CONTACT THE LANDSCAPE ARCHITECT IN THE EVENT THAT FIELD TESTED PRESSURES ARE LESS THAN STATED, PRIOR TO CONSTRUCTION.
- THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH. ADJUST CLOCK AS REQUIRED TO ACHIEVE THIS GOAL AS REQUIRED BY THE TIME OF YEAR.
- IT IS THE RESPONSIBILITY OF THE LANDSCAPE MAINTENANCE CONTRACTOR AND/OR OWNER TO PROGRAM THE IRRIGATION CONTROLLERS TO PROVIDE THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOUNDS AND SLOPES, AND SUN, SHADE AND WIND EXPOSURES.
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- CONTRACTORS/DEVELOPERS ARE RESPONSIBLE TO SUBMIT A FINAL LANDSCAPE PACKAGE INCLUDING AS-BUILTS, PRODUCT AND FITURES SUBMITTAL WITH ASSOCIATED MODEL NUMBERS, MANUFACTURER INFORMATION/SPECIFICATIONS, CONTROLLER IRRIGATION VALVE ID AND DESCRIPTION LIST, PROGRAMS, AND LAMINATED 8"X12" COLOR-CODED VALVE CHARTS. DIGITAL COPIES OF SUBMITTALS AND MANUALS IS ACCEPTABLE (WITH THE EXCEPTION OF THE LAMINATED VALVE CHART).
- TRENCH ALL MAIN LINES TO PROVIDE A MINIMUM OF 18" COVER. TRENCH ALL LATERAL LINES TO PROVIDE A MINIMUM COVER OF 12". TRENCH ALL MAIN OR LATERAL LINES TO PROVIDE A MINIMUM COVER OF 24" WHERE CROSSING UNDER DRIVEWAY PAVEMENT AND PLACE WITHIN A SCHEDULE 40 SLEEVE, SIZE AS SHOWN.
- INSTALL SLEEVES WHERE SHOWN ON PLAN AND AT ALL LOCATIONS WHERE IRRIGATION PIPES CROSS BENEATH PAVING, PRIOR TO THE PLACEMENT OF PAVING. COORDINATE WITH PAVING CONTRACTOR.
- ALL REMOTE CONTROL VALVES, QUICK COUPLER VALVES, AND FLUSH VALVES SHALL BE INSTALLED IN PLANTER AND IN VALVE BOXES.
- CONTRACTOR IS RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANT MATERIAL. INSTALL ADDITIONAL EMITTERS OR ADJUST SPACING AS REQUIRED.
- MAIN LINE PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALLOUT TO BE 1" PIPE (MAIN LINE PIPE SIZE DIAMETER NOT TO BE LESS THAN 1"). LATERAL PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALLOUT TO BE 3/4" PIPE (LATERAL PIPE SIZE DIAMETER NOT TO BE LESS THAN 3/4").
- IT IS IMPORTANT THAT BOTH THE CONTROLLER AND THE DECODERS ARE GROUNDED TO GROUND RODS OR PLATES WITH LESS THAN 10 OHMS RESISTANCE. THE GROUND SHOULD ALWAYS BE MEASURED WITH A GROUND RESISTANCE METER. A "CLAMP ON METER" CANNOT BE USED FOR GROUND MEASUREMENT, SINCE THIS IS AN ISOLATED SYSTEM. GROUND RESISTANCE MEASUREMENTS SHOULD BE PERFORMED WITH A "FALL OF POTENTIAL" TYPE METER IN DECODER SYSTEM. CONTRACTOR IS RESPONSIBLE TO PROVIDE THE OWNER AND THE CITY OF CHICO WITH A CERTIFIED GROUNDING REPORT SHOWING THE RESULTS OF THE TEST.
- CONTRACTOR IS RESPONSIBLE TO PROVIDE, INSTALL, AND HAVE CERTIFIED FULLY FUNCTIONAL BASELINE CONTROLLERS. CONNECT CONTROLLERS TO THE CITY CENTRAL CONTROL. CONTRACTOR IS RESPONSIBLE FOR WORKING WITH CITY TO MAKE CONNECTION.
- SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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BFLA Project Number: 2414

Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB					
Checked:	JBB	Date:	12-6-2023			

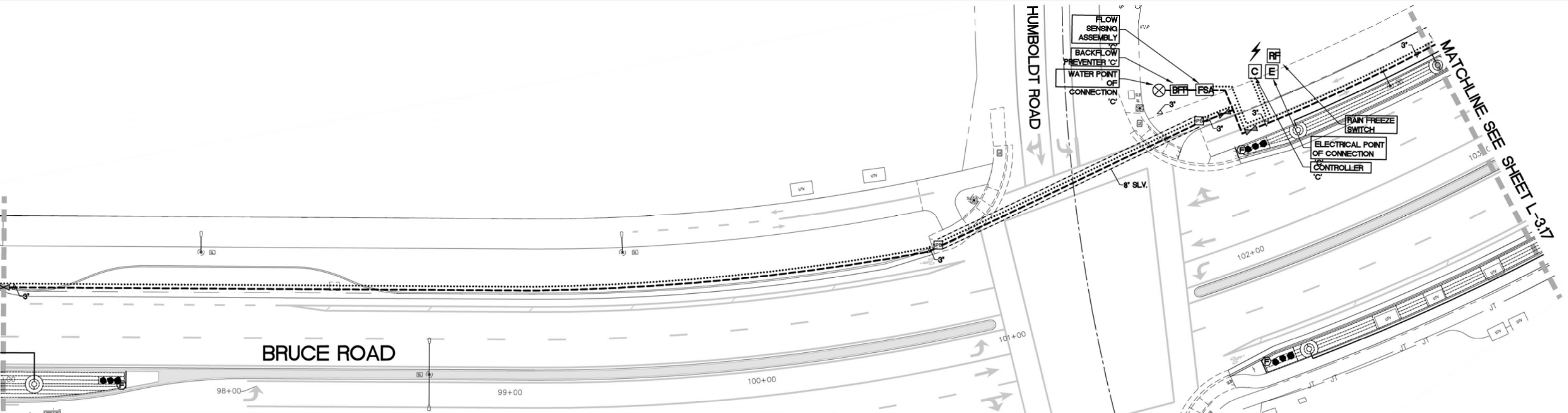
CITY OF CHICO
PUBLIC WORKS DEPARTMENT



BRUCE ROAD RECONSTRUCTION
LANDSCAPE IRRIGATION PLAN BRUCE ROAD STA. 91+00 TO 97+00

Project Number:	16038	Drawing Number:	L-315
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 172 of 182

MATCHLINE. SEE SHEET L-315

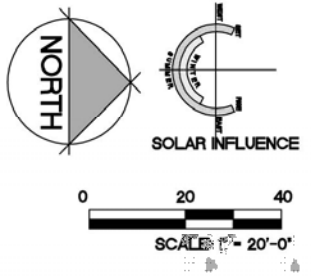


IRRIGATION LEGEND

SYM.	LEGEND	DESCRIPTION	MODEL	REMARKS	DETAILS
⊗		WATER POINT OF CONNECTION 'A'		CONNECT TO NEW DEDICATED 2" WATER METER. SEE CIVIL ENGINEER'S PLANS. CONFIRM EXACT LOCATION IN FIELD.	---
⊗		WATER POINT OF CONNECTION 'B'		CONNECT TO EXISTING 2" WATER METER. CONFIRM EXACT LOCATION IN FIELD.	---
⊗		WATER POINT OF CONNECTION 'C'		CONNECT TO NEW DEDICATED 2" WATER METER. SEE CIVIL ENGINEER'S PLANS. CONFIRM EXACT LOCATION IN FIELD.	---
BP	WILSON	BACKFLOW PREVENTER 'A'	WILSON LEAD FREE	2" SIZE. INSTALL IN ENCLOSURE ON CONCRETE PAD. PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE). PROVIDE AND INSTALL INSULATED BLANKET.	L-26/ L-320
BP	EXISTING	BACKFLOW PREVENTER 'B'	EXISTING (TO REMAIN)	2" SIZE (VERIFY). VERIFY THAT CERTIFICATION IS CURRENT. FIELD VERIFY SIZE. 1 PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE) IN THE EVENT THAT PRESSURE EXCEEDS 70 PSI. PROVIDE AND INSTALL INSULATED BLANKET.	---
BP	WILSON	BACKFLOW PREVENTER 'C'	WILSON LEAD FREE	2" SIZE. INSTALL IN ENCLOSURE ON CONCRETE PAD. PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE). PROVIDE AND INSTALL INSULATED BLANKET.	L-26/ L-320
FM		FLOWMETER HUNTER	06000 LINE SIZE/ ULTRASONIC) WITH BL-4200 DECODER AND IOV 301 VALVE WITH 88-4201 M/ DECODER	INSTALL AS PER MANUFACTURER'S SPECIFICATIONS	L-27/ L-320
FM		EXISTING FLOW SENSING / MASTER VALVE ASSEMBLY 'A'	EXISTING RETROFIT WITH A BASELINE BL-4200 DECODER (OR BL-4200 IF ULTRASONIC) AND A 88-4201 M/ DECODER AT VALVE	CONTRACTOR RESPONSIBLE TO RE-PROGRAM FLOW SENSING SHUT OFF AT THE CONTROLLER PER THE PARAMETERS OF THE NEW IRRIGATION SYSTEM	---
FM		EXISTING FLOW SENSING / MASTER VALVE ASSEMBLY 'B'	06000 LINE SIZE/ ULTRASONIC) WITH BL-4200 DECODER AND IOV 301 VALVE WITH 88-4201 M/ DECODER	INSTALL AS PER MANUFACTURER'S SPECIFICATIONS	L-27/ L-320
E	TESCO	ELECTRICAL POINT OF CONNECTION 'A'	88-400	USE INTO POWER SUPPLY FOR EXISTING CONTROLLER. VERIFY EXACT CONDITIONS IN FIELD	L-28/ L-320
E	---	ELECTRICAL POINT OF CONNECTION 'B'	88-400		L-28/ L-320
E	TESCO	ELECTRICAL POINT OF CONNECTION 'C'	88-400		L-28/ L-320
C	BASELINE STRONGBOX	CONTROLLER 'A'	BASELINE 3200 SITE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL ENCLOSURE BL-4200-EB-9M-280 COMMUNICATION OPTION -CM- CELLULAR MODEM INCLUDE 5 YEAR CENTRAL CONTROL PLATFORM PLAN BL-SM42-PLUS-5Y	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO SALDAN, EMING, CHICO 530-588-4078). GROUND PER ASIC EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDISTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	L-29/ L-320
C	BASELINE STRONGBOX	CONTROLLER 'B'	BASELINE 3200 SITE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL ENCLOSURE BL-4200-EB-9M-280 COMMUNICATION OPTION -CM- CELLULAR MODEM INCLUDE 5 YEAR CENTRAL CONTROL PLATFORM PLAN BL-SM42-PLUS-5Y	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO SALDAN, EMING, CHICO 530-588-4078). GROUND PER ASIC EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDISTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	L-29/ L-320
C	BASELINE STRONGBOX	CONTROLLER 'C'	BASELINE 3200 SITE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL ENCLOSURE BL-4200-EB-9M-280 COMMUNICATION OPTION -CM- CELLULAR MODEM INCLUDE 5 YEAR CENTRAL CONTROL PLATFORM PLAN BL-SM42-PLUS-5Y	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO SALDAN, EMING, CHICO 530-588-4078). GROUND PER ASIC EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDISTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	L-29/ L-320
IS	IBICO	ISOLATION VALVE	T-99-LF	LINE SIZE VALVE MUST BE LEAD FREE.	L-26/ L-320
OC	HUNTER	QUICK COUPLER VALVE	HO-44LC	INSTALL A MINIMUM OF 6 FEET AWAY FROM TREE PLANTINGS EXCEPT WHERE OTHERWISE NOTED. PROVIDE OWNER WITH 2 COMPATIBLE KEYS PRIOR TO CLOSEOUT.	L-28/ L-321
DC	HUNTER/BASELINE	DRIP CONTROL ZONE KIT	ARCHER 30.0CM IZC 1-UP LTD 30.0CM IZC 1-UP BELOW 1.0CM IZC 1-UP BASELINE 8 BL-4201	---	L-30/ L-321
---	---	PRESSURE MAINLINE		PVC SCHEDULE 40	---
---	---	NON-PRESSURE LATERAL PIPE		PVC SCHEDULE 40	L-31/ L-320
---	---	CONTROL WIRE CHASE	M2 BLUE WIRE DOUBLE JACKETED M2, NON-TWISTED.	1-1/2" DIAM SCHEDULE 40 PVC CONDUIT WITH HEAVY DUTY DECODER CABLE. USE BLUE JACKET FOR CONTROLLER A, RED JACKET FOR CONTROLLER B, AND GREEN JACKET FOR CONTROLLER C.	L-29/ L-321
---	---	IRRIGATION SLEEVE		PVC SCHEDULE 40. SIZE PER PLAN	L-29/ L-321
HT	HUNTER	PRESSURE COMPENSATING DRIPPIRLINE	HCL-06-9-PC WITH ECO-WRAP	INSTALL AT 18" LINE SPACING	L-33-36 + L-340/ L-322
TR	HUNTER	TRANSITION TO DRIP	PLD-675-TITEE	INSTALL IN CARBON 90 VALVE BOX OR EQUAL SET ELBOW A MINIMUM OF 1' BELOW TOP OF BOX	L-33-36/ L-322
FL	HUNTER	FLUSH VALVE	FLD-8V	INSTALL IN VALVE BOX AS PER PLANS AND DETAILS	L-33-36/ L-322
HT	HUNTER	DRIPPIRLINE AT TREES	HEB-05 AND HCL-06-9	TWO EMITTERS PER TREE. SEE DETAIL.	L-34-44/ L-322
FB	---	FULL BOX		INSTALL IN CARBON 90 VALVE BOX OR EQUAL SET ELBOW A MINIMUM OF 1' BELOW TOP OF BOX	L-33-36/ L-322
---	---	CONTROLLER GROUNDING/ SURGE ARRESTORS	PANSEPEC GROUND PLATE 52000 GASLINE SURGE ARRESTOR BL-140A	INSTALL 1 WITHIN 25 FEET OF CONTROLLER AND EVERY 500 FEET AND DECODER CABLE ENDS.	---
---	---	STUB OUT MAINLINE AND CONDUIT		STUB UP LATERAL LINE IN A CARBON 90 VALVE BOX	L-35-36/ L-322
SYMBOLS					
1	---	VALVE / CONTROLLER STATION			
1-1/2"	---	VALVE SIZE			
28.4	---	FLOW IN GALLONS PER MINUTE			

IRRIGATION NOTES

- THIS SYSTEM IS DESIGNED FOR A MAXIMUM DEMAND OF 30 GPM (QUICK COUPLER VALVE). SEE PRESSURE LOSS CALCULATION, SHEET L-300 FOR ANTICIPATED PRESSURE AT WATER METERS. CONTACT THE LANDSCAPE ARCHITECT IN THE EVENT THAT FIELD TESTED PRESSURES ARE LESS THAN STATED, PRIOR TO CONSTRUCTION.
- THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH. ADJUST CLOCK AS REQUIRED TO ACHIEVE THIS GOAL AS REQUIRED BY THE TIME OF YEAR.
- IT IS THE RESPONSIBILITY OF THE LANDSCAPE MAINTENANCE CONTRACTOR AND/OR OWNER TO PROGRAM THE IRRIGATION CONTROLLERS TO PROVIDE THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOUNDS AND SLOPES, AND SUN, SHADE AND WIND EXPOSURES.
- THIS DRAWING IS DIAGRAMMATIC. IRRIGATION COMPONENTS SHOWN BENEATH PAVING OR PLANTINGS ARE FOR GRAPHIC CLARITY ONLY. PLACE ALL PIPING, VALVES, AND OTHER IRRIGATION COMPONENTS WITHIN THE ADJACENT PLANTER EXCEPT WHERE PIPES CROSS PAVING. PLACE PIPING TO PREVENT CONFLICT WITH SUBSEQUENT PLANTING. REFER TO PLANTING PLAN.
- CONTRACTORS/DEVELOPERS ARE RESPONSIBLE TO SUBMIT A FINAL LANDSCAPE PACKAGE INCLUDING AS-BUILTS, PRODUCT AND FITURES SUBMITTAL, WITH ASSOCIATED MODEL NUMBERS, MANUFACTURER INFORMATION/SPECIFICATIONS, CONTROLLER IRRIGATION VALVE ID AND DESCRIPTION LIST, PROGRAMS, AND LAMINATED 11"x17" COLOR-CODED VALVE CHART(S). DIGITAL COPIES OF SUBMITTALS AND MANUALS IS ACCEPTABLE (WITH THE EXCEPTION OF THE LAMINATED VALVE CHART).
- TRENCH ALL MAIN LINES TO PROVIDE A MINIMUM OF 18" COVER. TRENCH ALL LATERAL LINES TO PROVIDE A MINIMUM COVER OF 12". TRENCH ALL MAIN OR LATERAL LINES TO PROVIDE A MINIMUM COVER OF 24" WHERE CROSSING UNDER DRIVEWAY PAVEMENT AND PLACE WITHIN A SCHEDULE 40 SLEEVE, SIZE AS SHOWN.
- INSTALL SLEEVES WHERE SHOWN ON PLAN AND AT ALL LOCATIONS WHERE IRRIGATION PIPES CROSS BENEATH PAVING. PRIOR TO THE PLACEMENT OF PAVING. COORDINATE WITH PAVING CONTRACTOR.
- ALL REMOTE CONTROL VALVES, QUICK COUPLER VALVES, AND FLUSH VALVES SHALL BE INSTALLED IN PLANTER AND IN VALVE BOXES.
- CONTRACTOR IS RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANT MATERIAL. INSTALL ADDITIONAL EMITTERS OR ADJUST SPACING AS REQUIRED.
- MAIN LINE PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALLOUT TO BE 1" PIPE (MAIN LINE PIPE SIZE DIAMETER NOT TO BE LESS THAN 1"). LATERAL PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALLOUT TO BE 3/4" PIPE (LATERAL PIPE SIZE DIAMETER NOT TO BE LESS THAN 3/4").
- IT IS IMPORTANT THAT BOTH THE CONTROLLER AND THE DECODERS ARE GROUNDED TO GROUND RODS OR PLATES WITH LESS THAN 10 OHM RESISTANCE. THE GROUND SHOULD ALWAYS BE MEASURED WITH A GROUND RESISTANCE METER. A "CLAMP ON METER" CANNOT BE USED FOR GROUND MEASUREMENT. SINCE THIS IS AN ISOLATED SYSTEM, GROUND RESISTANCE MEASUREMENTS SHOULD BE PERFORMED WITH A "FALL OF POTENTIAL" TYPE METER IN DECODER SYSTEMS. CONTRACTOR IS RESPONSIBLE TO PROVIDE THE OWNER AND THE CITY OF CHICO WITH A CERTIFIED GROUNDING REPORT SHOWING THE RESULTS OF THE TEST.
- CONTRACTOR IS RESPONSIBLE TO PROVIDE, INSTALL, AND HAVE CERTIFIED FULLY FUNCTIONAL BASELINE CONTROLLERS. CONNECT CONTROLLERS TO THE CITY CENTRAL CONTROL. CONTRACTOR IS RESPONSIBLE FOR WORKING WITH CITY TO MAKE CONNECTION.
- SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.



Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB	Date:	12-6-2023			
Checked:	JBB					

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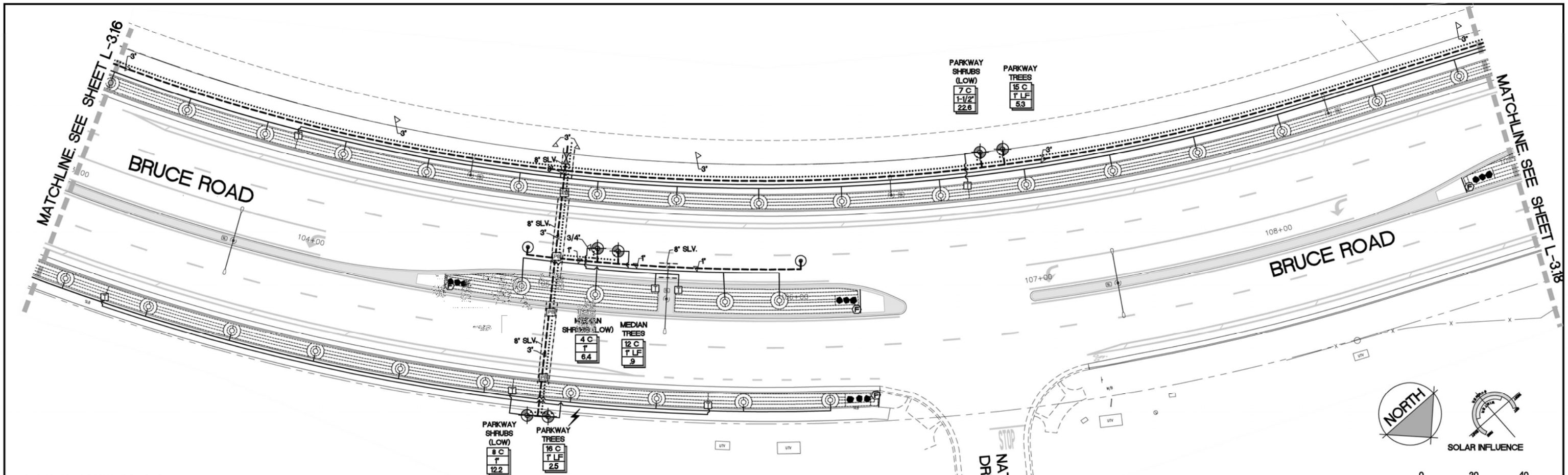
BRUCE ROAD RECONSTRUCTION
LANDSCAPE IRRIGATION PLAN BRUCE ROAD STA. 97+00 TO 103+00

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IRRIGATION LEGEND

SYM.	MPOR	DESCRIPTION	MODEL	REMARKS	DETAILS
⊗		WATER POINT OF CONNECTION 'K'		CONNECT TO NEW DEDICATED 1/2" WATER METER. SEE CIVIL ENGINEER'S PLANS. CONFIRM EXACT LOCATION IN FIELD.	---
⊗		WATER POINT OF CONNECTION 'W'		CONNECT TO EXISTING 1/2" WATER METER. CONFIRM EXACT LOCATION IN FIELD.	---
⊗		WATER POINT OF CONNECTION 'U'		CONNECT TO NEW DEDICATED 1/2" WATER METER. SEE CIVIL ENGINEER'S PLANS. CONFIRM EXACT LOCATION IN FIELD.	---
⊗	WILSON	BACKFLOW PREVENTER 'K'	8" NPS LEAD FREE	1/2" SIZE. INSTALL IN ENCLOSURE ON CONCRETE PAD. PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR LINE SIZES. PROVIDE AND INSTALL INSULATED BLANKET.	LP-25/ L-3.50
⊗	EXISTING	BACKFLOW PREVENTER 'W'	EXISTING (TO REMAIN)	1/2" SIZE (VERIFY). VERIFY THAT CERTIFICATION IS CURRENT. FIELD VERIFY SIZE. 1 PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR LINE SIZES IN THE EVENT THAT PRESSURE EXCEEDS 70 PSI. PROVIDE AND INSTALL INSULATED BLANKET.	---
⊗	WILSON	BACKFLOW PREVENTER 'U'	8" NPS LEAD FREE	1/2" SIZE. INSTALL IN ENCLOSURE ON CONCRETE PAD. PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR LINE SIZES. PROVIDE AND INSTALL INSULATED BLANKET.	LP-25/ L-3.50
⊗	WILSON	FLOW SENSING / MASTER VALVE ASSEMBLY 'K'	ORISO (LINE SIZES) ULTRASONIC) WITH BL-400S DECODER AND ICI 501 VALVE WITH 50-501 MY DECODER	INSTALL AS PER MANUFACTURER'S SPECIFICATIONS	LP-27/ L-3.50
⊗	EXISTING	FLOW SENSING / MASTER VALVE ASSEMBLY 'W'	EXISTING (RETROFIT WITH A BASELINE BL-400S DECODER OR BL-400S F ULTRASONIC) AND A 50-501 MY DECODER AT VALVE	CONTRACTOR RESPONSIBLE TO RE-PROGRAM FLOW SENSING SHUT OFF AT THE CONTROLLER PER THE PARAMETERS OF THE NEW IRRIGATION SYSTEM	---
⊗	WILSON	FLOW SENSING / MASTER VALVE ASSEMBLY 'U'	ORISO (LINE SIZES) ULTRASONIC) WITH BL-400S DECODER AND ICI 501 VALVE WITH 50-501 MY DECODER	INSTALL AS PER MANUFACTURER'S SPECIFICATIONS	LP-27/ L-3.50
⊗	TEBBO	ELECTRICAL POINT OF CONNECTION 'K'	24-000		LP-36/ L-3.50
⊗	---	ELECTRICAL POINT OF CONNECTION 'W'	TE AND POWER SUPPLY FOR EXISTING CONTROLLER. VERIFY EXACT CONDITIONS IN FIELD.		LP-36/ L-3.50
⊗	TEBBO	ELECTRICAL POINT OF CONNECTION 'U'	24-000		LP-36/ L-3.50
⊗	BASELINE (STRONGBOX)	CONTROLLER 'K' IN HEAVY DUTY STAINLESS STEEL ENCLOSURE	BASESTATION 3200 SITE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL ENCLOSURE BL-400S-8M-8M-8M COMMUNICATION OPTION -CM CELLULAR MODUL. INCLUDE 5 YEAR CENTRAL CONTROL PLATFORM FOR SUBSTATIONS BL-800S SUBSTATION	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO BALDOAN, ENVIRO, CHICO, 530-588-8878, GROUND PER ABC EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDESTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	LP-49/ L-3.50
⊗	BASELINE (STRONGBOX)	CONTROLLER 'W' IN HEAVY DUTY STAINLESS STEEL ENCLOSURE	BASESTATION 3200 SITE MANAGEMENT IRRIGATION CONTROLLER IN HEAVY DUTY PEDESTAL MOUNT ENCLOSURE BL-400S-8M-8M IN P-80S PEDESTAL COMMUNICATION OPTION -CM CELLULAR MODUL. INCLUDE 5 YEAR CENTRAL CONTROL PLATFORM FOR SUBSTATIONS BL-800S SUBSTATION	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO BALDOAN, ENVIRO, CHICO, 530-588-8878, GROUND PER ABC EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDESTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	LP-49/ L-3.50
⊗	BASELINE (STRONGBOX)	CONTROLLER 'U' IN HEAVY DUTY STAINLESS STEEL ENCLOSURE	BASESTATION 3200 SITE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL ENCLOSURE BL-400S-8M-8M-8M COMMUNICATION OPTION -CM CELLULAR MODUL. INCLUDE 5 YEAR CENTRAL CONTROL PLATFORM FOR SUBSTATIONS BL-800S SUBSTATION	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO BALDOAN, ENVIRO, CHICO, 530-588-8878, GROUND PER ABC EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDESTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	LP-49/ L-3.50
⊗	NECO	ISOLATION VALVE	T-50-LP	LINE SIZE. VALVE MUST BE LEAD FREE.	LP-26/ L-3.50
⊗	HANTR	QUICK COUPLER VALVE	HS-40-NC	INSTALL A MINIMUM OF 6 FEET AWAY FROM TREE PLANTINGS EXCEPT WHERE OTHERWISE NOTED. PROVIDE OWNER WITH 2 COMPATIBLE KEYS PRIOR TO CLOSURE.	LP-28/ L-3.50
⊗	HANTR/BASELINE	ORP CONTROL ZONE KIT	ABOVE 30 GPM ICE 1-F 2 TO 30 GPM ICE 1-F BELOW 2 GPM ICE 1-F BASELINE 9 BL-501	---	LP-50/ L-3.50
⊗	---	SHOLE STATION DECODER	BASELINE 9 BL-501	---	---
⊗	---	PRESSURE MAINLINE		PVC SCHEDULE 40	---
⊗	---	NON-PRESSURE LATERAL PIPE		PVC SCHEDULE 40	---
⊗	---	CONTROL WIRE CHASE	NE BLUE WIRE DOUBLE JACKETED W/NO TWISTED.	1-1/2" DIAM SCHEDULE 40 PVC CONDUIT WITH HEAVY DUTY DECODER CABLE USE BLUE JACKET FOR CONTROLLER A, RED JACKET FOR CONTROLLER B, AND GREEN JACKET FOR CONTROLLER C.	LP-38, LP-39, LP-40, LP-41, LP-42, LP-43
⊗	---	IRRIGATION SLEEVE		PVC SCHEDULE 40. SIZE PER PLAN	---
⊗	HANTR	PRESSURE COMPENSATING DIFFERENTIAL	HCL-40-2-PVC WITH ECO-WRAP	INSTALL AT 1' LINE SPACING	LP-35+/ L-3.50
⊗	HANTR	TRANSITION TO DRIP	FLD-075-TREE	INSTALL IN CARBON 90 VALVE BOX OR EQUAL. SET ELBOW A MINIMUM OF 7" BELOW TOP OF BOX	LP-39/ L-3.50
⊗	HANTR	FLUSH VALVE	FLD-07	INSTALL IN VALVE BOX AS PER PLUMB AND DETAILS	LP-40/ L-3.50
⊗	HANTR	DRIPPERS/EMITTERS AT TREES	HES-05 AND HCL-09-S	TWO EMITTERS PER TREE. SEE DETAIL.	LP-44/ L-3.50
⊗	---	PULL BOX		INSTALL IN CARBON 90 VALVE BOX OR EQUAL. SET ELBOW A MINIMUM OF 7" BELOW TOP OF BOX	LP-40/ L-3.50
⊗	---	CONTROLLER GROUNDING/ SURGE ARRESTORS	PAGEFIED GROUND PLATE 30000 BASELINE SURGE ARRESTORS BL-LAH	INSTALL 1' WITHIN 25 FEET OF CONTROLLER AND EVERY 600 FEET AND DECODER CABLE ENDS.	---
⊗	---	STUB OUT MAINLINE AND CONDUIT		STUB UP LATERAL LINE IN A CARBON 90 VALVE BOX	LP-39/ L-3.50

IRRIGATION NOTES

- THIS SYSTEM IS DESIGNED FOR A MAXIMUM DEMAND OF 90 GPM (QUICK COUPLER VALVES). SEE PRESSURE LOSS CALCULATION, SHEET L-300 FOR ANTICIPATED PRESSURE AT WATER METERS. CONTACT THE LANDSCAPE ARCHITECT IN THE EVENT THAT FIELD TESTED PRESSURES ARE LESS THAN STATED, PRIOR TO CONSTRUCTION.
- THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH ADJUST CLOCK AS REQUIRED TO ACHIEVE THIS GOAL AS REQUIRED BY THE TIME OF YEAR.
- IT IS THE RESPONSIBILITY OF THE LANDSCAPE MAINTENANCE CONTRACTOR AND/OR OWNER TO PROGRAM THE IRRIGATION CONTROLLER TO PROVIDE THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOUNDS AND SLOPES, AND SUN, SHADE AND WIND EXPOSURES.
- THIS DRAWING IS DIAGNOSTIC. IRRIGATION COMPONENTS SHOWN BENEATH PAVING OR PLANTINGS ARE FOR GRAPHIC CLARITY ONLY. PLACE ALL PIPING, VALVES, AND OTHER IRRIGATION COMPONENTS WITHIN THE ADJACENT PLANTING EXCEPT WHERE PIPES CROSS PAVING. PLACE PIPING TO PREVENT CONFLICT WITH SUBSEQUENT PLANTING. REFER TO PLANTING PLAN.
- CONTRACTORS/DEVELOPERS ARE RESPONSIBLE TO SUBMIT A FINAL LANDSCAPE PACKAGE INCLUDING AS-BUILTS, PRODUCT AND PICTURE SUBMITTAL WITH ASSOCIATED MODEL, NUMBER, MANUFACTURER INFORMATION, SPECIFICATIONS, CONTROLLER IRRIGATION VALVE ID AND DESCRIPTION LIST, PROGRAMS, AND LAMINATED 11"x17" COLOR-CODED VALVE CHARTER. DIGITAL COPIES OF SUBMITTALS AND MANUALS IS ACCEPTABLE (WITH THE EXCEPTION OF THE LAMINATED VALVE CHART).
- TRENCH ALL MAIN LINES TO PROVIDE A MINIMUM OF 18" COVER. TRENCH ALL LATERAL LINES TO PROVIDE A MINIMUM COVER OF 12". TRENCH ALL MAIN OR LATERAL LINES TO PROVIDE A MINIMUM COVER OF 24" WHERE CROSSING UNDER DRIVEWAY PAVEMENT AND PLACE WITHIN A SCHEDULE 40 SLEEVE, SIZE AS SHOWN.
- INSTALL SLEEVES WHERE SHOWN ON PLAN AND AT ALL LOCATIONS WHERE IRRIGATION PIPES CROSS BENEATH PAVING, PRIOR TO THE PLACEMENT OF PAVING. COORDINATE WITH PAVING CONTRACTOR.
- ALL REMOTE CONTROL VALVES, QUICK COUPLER VALVES, AND FLUSH VALVES SHALL BE INSTALLED IN PLANTER AND IN VALVE BOXES.
- CONTRACTOR IS RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANT MATERIAL. INSTALL ADDITIONAL EMITTERS OR ADJUST SPACING AS REQUIRED.
- MAIN LINE PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALLOUT TO BE 1" PIPE (MAIN LINE PIPE SIZE DIAMETER NOT TO BE LESS THAN 1"). LATERAL PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALLOUT TO BE 3/4" PIPE (LATERAL PIPE SIZE DIAMETER NOT TO BE LESS THAN 3/4").
- IT IS IMPORTANT THAT BOTH THE CONTROLLER AND THE DECODERS ARE GROUND TO GROUND ROD OR PLATE WITH LESS THAN 10 OHMS RESISTANCE. THE GROUND SHOULD ALWAYS BE MEASURED WITH A GROUND RESISTANCE METER. A CLAMP ON METER CANNOT BE USED FOR GROUND MEASUREMENT, SINCE THIS IS AN ISOLATED SYSTEM. GROUND RESISTANCE MEASUREMENTS SHOULD BE PERFORMED WITH A "FALL OF POTENTIAL" TYPE METER IN DECODER SYSTEMS. CONTRACTOR IS RESPONSIBLE TO PROVIDE THE OWNER AND THE CITY OF CHICO WITH A CERTIFIED GROUNDING REPORT SHOWING THE RESULTS OF THE TEST.
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- SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB	Date:	12-6-2023			
Checked:	JBB					

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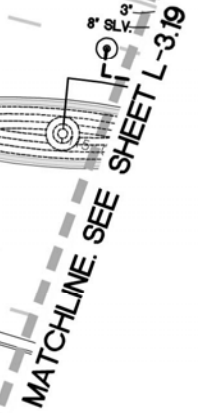
BRUCE ROAD RECONSTRUCTION
LANDSCAPE IRRIGATION PLAN BRUCE ROAD STA. 103+00 TO 109+00

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SYMBOL	SYMBOL	DESCRIPTION	MODEL	REMARKS	DETAILS
	WATER POINT OF CONNECTION 'A'	CONNECT TO NEW DEDICATED 2" WATER METER. SEE CML ENGINEERS PLANS. CONFIRM EXACT LOCATION IN FIELD.	---		
	WATER POINT OF CONNECTION 'B'	CONNECT TO EXISTING 2" WATER METER. CONFIRM EXACT LOCATION IN FIELD.	---		
	WATER POINT OF CONNECTION 'C'	CONNECT TO NEW DEDICATED 2" WATER METER. SEE CML ENGINEERS PLANS. CONFIRM EXACT LOCATION IN FIELD.	---		
	WILSON BACKFLOW PREVENTER 'A'	2" SIZE. INSTALL IN ENCLOSURE ON CONCRETE PAD. PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZES). PROVIDE AND INSTALL INSULATED BLANKET.	L-23/ L-320		
	EXISTING BACKFLOW PREVENTER 'B'	2" SIZE (NPT). VERIFY THAT CERTIFICATION IS CURRENT. FIELD VERIFY SIZE. I PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZES) IN THE EVENT THAT PRESSURE EXCEEDS 70 PSI. PROVIDE AND INSTALL INSULATED BLANKET.	---		
	WILSON BACKFLOW PREVENTER 'C'	2" SIZE. INSTALL IN ENCLOSURE ON CONCRETE PAD. PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZES). PROVIDE AND INSTALL INSULATED BLANKET.	L-23/ L-320		
	FLOWMETER HANTER FLOW SENSING / MASTER VALVE ASSEMBLY 'A'	08200 (LINE SIZE) ULTRASONIC) WITH BL-8200 DECODER AND JOY 801 VALVE WITH BS-8201 M/V DECODER	INSTALL AS PER MANUFACTURER'S SPECIFICATIONS		
	EXISTING FLOW SENSING / MASTER VALVE ASSEMBLY 'B'	EXISTING RETROFIT WITH A BARELINE BL-8206 DECODER (OR BL-8208 (1/4" ULTRASONIC) AND A BS-8201 M/V DECODER AT VALVE	CONTRACTOR RESPONSIBLE TO RE-PROGRAM FLOW SENSING SHUT OFF AT THE CONTROLLER PER THE PARAMETERS OF THE NEW IRRIGATION SYSTEM		
	FLOWMETER HANTER FLOW SENSING / MASTER VALVE ASSEMBLY 'C'	08200 (LINE SIZE) ULTRASONIC) WITH BL-8200 DECODER AND JOY 801 VALVE WITH BS-8201 M/V DECODER	INSTALL AS PER MANUFACTURER'S SPECIFICATIONS		
	TEBCO ELECTRICAL POINT OF CONNECTION 'A'	28-000	---		
	TEBCO ELECTRICAL POINT OF CONNECTION 'B'	THE INTO POWER SUPPLY FOR EXISTING CONTROLLER. VERIFY EXACT CONDITIONS IN FIELD	---		
	TEBCO ELECTRICAL POINT OF CONNECTION 'C'	28-000	---		
	BARELINE (STRONGBOX) CONTROLLER 'A' IN HEAVY DUTY STAINLESS STEEL ENCLOSURE	BARESTATION 3200 SITE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL ENCLOSURE BL-3200-SP-1M-250. COMMUNICATION OPTION -CMF CELLULAR MODEM INCLUDES 5 YEAR CENTRAL CONTROL PLATFORM PLAN BL-6M42-PLU2-4Y	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO SALGIAN, ENING, CHICO 520-588-4675. GROUND PER ASIO EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDESTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS		
	BARELINE (STRONGBOX) CONTROLLER 'B' IN HEAVY DUTY STAINLESS STEEL ENCLOSURE	BARESTATION IRRIGATION CONTROLLER SUBSTATION IN HEAVY DUTY PEDESTAL MOUNT ENCLOSURE BL-3200-SP-1M-250 IN P-1655 PEDESTAL COMMUNICATION OPTION -CMF CELLULAR MODEM. CONVENTIONAL WIRE STATIONS ARE REQUIRED TO SERVICE EXISTING VALVES, SELECT (1-82, 1-84, 1-86, OR 1-88) AS NEEDED. INCLUDE 5 YEAR CENTRAL CONTROL PLATFORM FOR SUBSTATIONS BL-6M42-SUBSTN-4Y	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO SALGIAN, ENING, CHICO 520-588-4675. GROUND PER ASIO EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDESTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS		
	BARELINE (STRONGBOX) CONTROLLER 'C' IN HEAVY DUTY STAINLESS STEEL ENCLOSURE	BARESTATION 3200 SITE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL ENCLOSURE BL-3200-SP-1M-250. COMMUNICATION OPTION -CMF CELLULAR MODEM INCLUDES 5 YEAR CENTRAL CONTROL PLATFORM PLAN BL-6M42-PLU2-4Y	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO SALGIAN, ENING, CHICO 520-588-4675. GROUND PER ASIO EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS. INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDESTAL. CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS		
	IBICO ISOLATION VALVE	T-59-LF	LINE SIZE VALVE MUST BE LEAD FREE.		
	HANTER QUICK COUPLER VALVE	HO-44-80	INSTALL A MINIMUM OF 6 FEET AWAY FROM THESE PLANTINGS EXCEPT WHERE OTHERWISE NOTED. PROVIDE OWNER WITH 2 COMPATIBLE KEYS PRIOR TO CLOSEOUT.		
	HANTER/ BARELINE DRP CONTROL ZONE KIT	ABOVE 30 GPM IZC 1" P 2 TO 30 GPM IZC T-LF BELOW 3 GPM IZC T-LF BARELINE 8 BL-6201	---		
	SINGLE STATION DECODER	BARELINE 8 BL-6201	---		
	PRESSURE MAINLINE	PVC SCHEDULE 40	---		
	NON-PRESSURE LATERAL PIPE	PVC SCHEDULE 40	---		
	CONTROL WIRE CHASE	M2 BLINK WIRE DOUBLE JACKETED M2, NON-TWISTED.	1/4" 2" DIAM SCHEDULE 40 PVC CONDUIT WITH HEAVY DUTY DECODER CABLE USE BLUE JACKET FOR CONTROLLER A, RED JACKET FOR CONTROLLER B, AND GREEN JACKET FOR CONTROLLER C.		
	IRRIGATION SCRIBE	PVC SCHEDULE 40. SIZES PER PLAN	---		
	HANTER PRESSURE COMPENSATING DRIPPERLINE	HDL-06-18-PO WITH 800-WRAP	INSTALL AT 18" LINE SPACING		
	HANTER TRANSITION TO DRP	FLD-075-TBTEE	INSTALL IN CARBON 90 VALVE BOX OR EQUAL SET ELBOW A MINIMUM OF 1' BELOW TOP OF BOX		
	HANTER FLUSH VALVE	FLD-8V	INSTALL IN VALVE BOX AS PER PLANS AND DETAILS		
	HANTER DRIPPERLINE AT TREES	HEB-66 AND HDL-06-18	TWO EMITTERS PER TREE. SEE DETAIL.		
	PULL BOX	---	INSTALL IN CARBON 90 VALVE BOX OR EQUAL SET ELBOW A MINIMUM OF 1' BELOW TOP OF BOX		
	CONTROLLER GROUNDING/BURKE ARRESTOR	PAIDRISPC GROUND PLATE RISING BARELINE BURKE ARRESTORS BL-LA01	INSTALL 1 WITHIN 25 FEET OF CONTROLLER AND EVERY 600 FEET AND DECODER CABLE ENDS.		
	STUB OUT MAINLINE AND CONDUIT	---	STUB UP LATERAL LINE IN A CARBON 90 VALVE BOX		

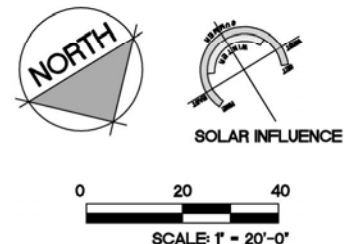
SYMBOLS

1 VALVE @ CONTROLLER STATION

1-1/2" VALVE SIZE

28.4 FLOW IN GALLONS PER MINUTE

1. THIS SYSTEM IS DESIGNED FOR A MAXIMUM DEMAND OF 30 GPM (QUICK COUPLER VALVE). SEE PRESSURE LOSS CALCULATION, SHEET L-3.00 FOR ANTICIPATED PRESSURE AT WATER METERS. CONTACT THE LANDSCAPE ARCHITECT IN THE EVENT THAT FIELD TESTED PRESSURES ARE LESS THAN STATED, PRIOR TO CONSTRUCTION.
2. THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH ADJUST CLOCK AS REQUIRED TO ACHIEVE THIS GOAL AS REQUIRED BY THE TIME OF YEAR.
3. IT IS THE RESPONSIBILITY OF THE LANDSCAPE MAINTENANCE CONTRACTOR AND/OR OWNER TO PROGRAM THE IRRIGATION CONTROLLERS TO PROVIDE THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANTS. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOUNDS AND SLOPES, AND SUN, SHADE AND WIND EXPOSURES.
4. THIS DRAWING IS DIAGRAMMATIC. IRRIGATION COMPONENTS SHOWN BENEATH PAVING OR PLANTINGS ARE FOR GRAPHIC CLARITY ONLY. PLACE ALL SPRINKLERS, VALVES, AND OTHER IRRIGATION COMPONENTS WITHIN THE ADJACENT PLANTER EXCEPT WHERE PIPES CROSS PAVING. PLACE PIPING TO PREVENT CONFLICT WITH SUBSEQUENT PLANTING. REFER TO PLANTING PLAN.
5. CONTRACTORS/DEVELOPERS ARE RESPONSIBLE TO SUBMIT A FINAL LANDSCAPE PACKAGE INCLUDING AS-BUILTS, PRODUCT AND FIXTURES SUBMITTAL WITH ASSOCIATED MODEL, NUMBERS MANUFACTURER INFORMATION/SPECIFICATIONS, CONTROLLER IRRIGATION VALVE ID AND DESCRIPTION LIST, PROGRAMS, AND LAMINATED 11"x17" COLOR-CODED VALVE CHART(S). DIGITAL COPIES OF SUBMITTALS AND MANUALS IS ACCEPTABLE (WITH THE EXCEPTION OF THE LAMINATED VALVE CHART).
6. TRENCH ALL MAIN LINES TO PROVIDE A MINIMUM OF 18" COVER. TRENCH ALL LATERAL LINES TO PROVIDE A MINIMUM COVER OF 12". TRENCH ALL MAIN OR LATERAL LINES TOPROVIDE A MINIMUM COVER OF 24" WHERE CROSSING UNDER DRIVEWAY PAVEMENT AND PLACE WITHIN A SCHEDULE 40 SLEEVE, SIZE AS SHOWN.
7. INSTALL SLEEVES WHERE SHOWN ON PLAN AND AT ALL LOCATIONS WHERE IRRIGATION PIPES CROSS BENEATH PAVING. PRIOR TO THE PLACEMENT OF PAVING. COORDINATE WITH PAVING CONTRACTOR.
8. ALL REMOTE CONTROL VALVES, QUICK COUPLER VALVES, AND FLUSH VALVES SHALL BE INSTALLED IN PLANTER AND IN VALVE BOXES.
9. CONTRACTOR IS RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANT MATERIAL. INSTALL ADDITIONAL EMITTERS OR ADJUST SPACING AS REQUIRED.
10. MAIN LINE PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALLOUT TO BE 1" PIPE (MAIN LINE PIPE SIZE DIAMETER NOT TO BE LESS THAN 1"). LATERAL PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALLOUT TO BE 3/4" PIPE (LATERAL PIPE SIZE DIAMETER NOT TO BE LESS THAN 3/4").
11. IT IS IMPORTANT THAT BOTH THE CONTROLLER AND THE DECODERS ARE GROUNDED TO GROUND RODS OR PLATES WITH LESS THAN 10 OHMS RESISTANCE. THE GROUND SHOULD ALWAYS BE MEASURED WITH A 6" RESISTANCE MEASUREMENT METER. A METER CANNOT BE USED FOR GROUND MEASUREMENT, SINCE THIS IS AN ISOLATED SYSTEM. GROUND RESISTANCE MEASUREMENTS SHOULD BE PERFORMED WITH A "FALL OF POTENTIAL" TYPE METER IN RESISTANCE SYSTEMS. CONTRACTOR IS RESPONSIBLE TO PROVIDE THE OWNER AND THE CITY OF CHICO WITH A CERTIFIED GROUNDING REPORT SHOWING THE RESULTS OF THE TEST.
12. CONTRACTOR IS RESPONSIBLE TO PROVIDE, INSTALL, AND HAVE CERTIFIED FULLY FUNCTIONAL BASELINE CONTROLLERS. CONNECT CONTROLLERS TO THE CITY CENTRAL CONTROL. CONTRACTOR IS RESPONSIBLE FOR WORKING WITH CITY TO MAKE CONNECTION.
13. SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.



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BFL A Project Number: 2414

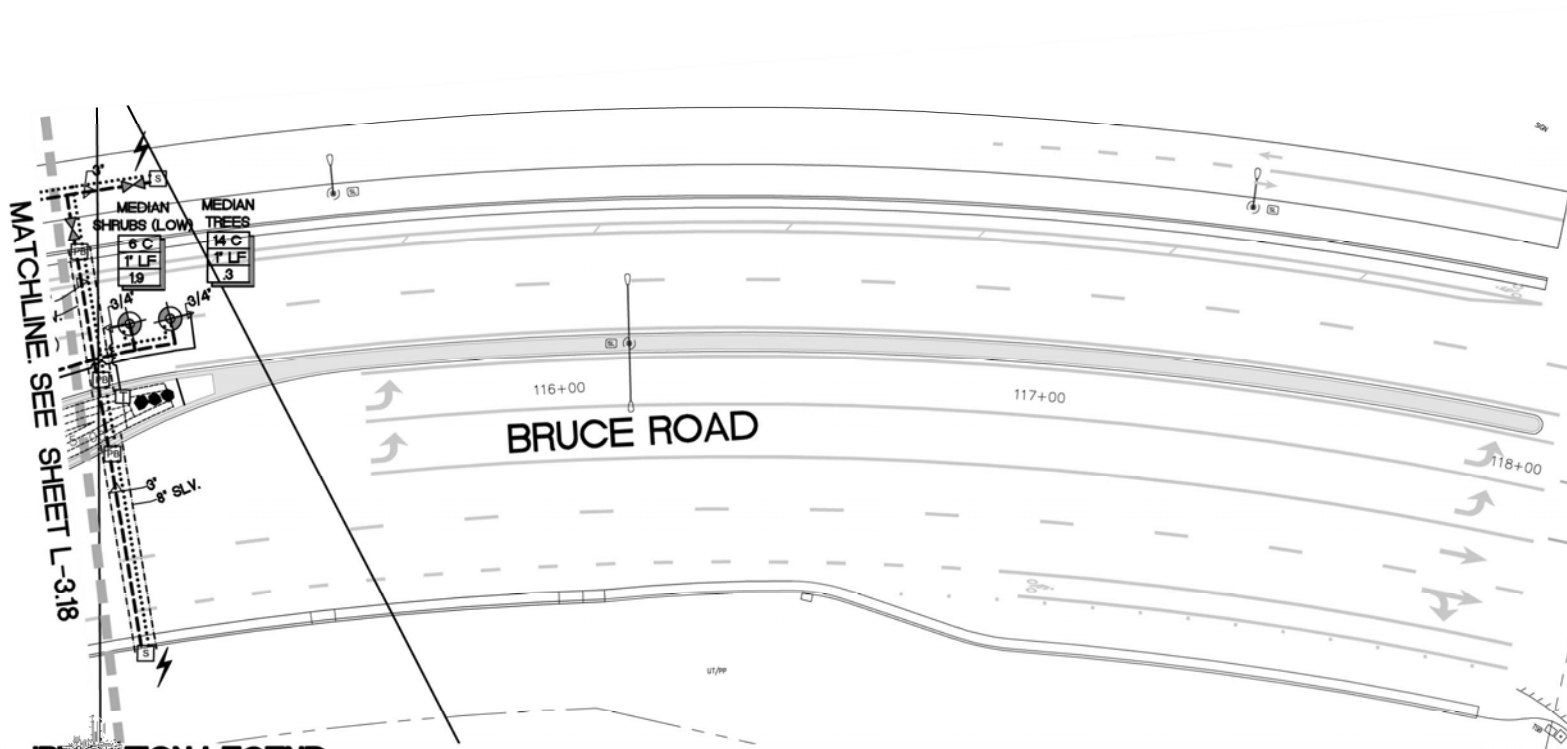
Designed: JBB	Approved:	Revision	Date	By
Drawn By: JBB/ TDB				
Checked: JBB		Date: 12-6-2023		

CITY OF CHICO
PUBLIC WORKS DEPARTMENT



BRUCE ROAD RECONSTRUCTION
LANDSCAPE IRRIGATION PLAN BRUCE ROAD STA. 109+00 TO 115+00

Project Number: 16038	Drawing Number: L-3.18
Scale: PER PLAN Horizontal PER PLAN Vertical	Sheet 175 of 182



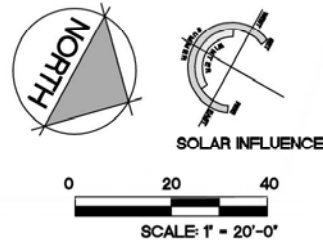
IRRIGATION LEGEND

SYMBOL	FOR	DESCRIPTION	MODEL	REMARKS	DETAILS
		WATER POINT OF CONNECTION 'A'		CONNECT TO NEW DEDICATED 2" WATER METER, SEE CML ENGINEERS PLANS, CONFIRM EXACT LOCATION IN FIELD.	---
		WATER POINT OF CONNECTION 'B'		CONNECT TO EXISTING 2" WATER METER, CONFIRM EXACT LOCATION IN FIELD.	---
		WATER POINT OF CONNECTION 'C'		CONNECT TO NEW DEDICATED 2" WATER METER, SEE CML ENGINEERS PLANS, CONFIRM EXACT LOCATION IN FIELD.	---
	WIL308	BACKFLOW PREVENTER 'A'	4700L2 LEAD FREE	2" SIZE, INSTALL IN ENCLOSURE ON CONCRETE PAD, PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE), PROVIDE AND INSTALL INSULATED BLANKET.	L8-26/ L-3.20
	EXISTING	BACKFLOW PREVENTER 'B'	EXISTING (TO REMAIN)	2" SIZE (VERIFY), VERIFY THAT CERTIFICATION IS CURRENT, FIELD VERIFY SIZE, 1 PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE) IN THE EVENT THAT PRESSURE EXCEEDS 70 PSI, PROVIDE AND INSTALL INSULATED BLANKET.	---
	WIL308	BACKFLOW PREVENTER 'C'	4700L2 LEAD FREE	2" SIZE, INSTALL IN ENCLOSURE ON CONCRETE PAD, PROVIDE AND INSTALL LEAD FREE PRESSURE REGULATOR (LINE SIZE), PROVIDE AND INSTALL INSULATED BLANKET.	L8-26/ L-3.20
	FLWMEC HUNTER	FLOW SENSING / MASTER VALVE ASSEMBLY 'A'	08200 (LINE SIZE) / ULTRASONIC) WITH BL-6204 DECODER AND ICV 301 VALVE WITH BP-6201 MY DECODER	INSTALL AS PER MANUFACTURER'S SPECIFICATIONS	L8-27/ L-3.20
	EXISTING	FLOW SENSING / MASTER VALVE ASSEMBLY 'B'	EXISTING RETROFIT WITH A BARELINE BL-6204 DECODER (OR BL-6209 IF ULTRASONIC) AND A BP-6201 MY DECODER AT VALVE	CONTRACTOR RESPONSIBLE TO RE-PROGRAM FLOW SENSING SHUT OFF AT THE CONTROLLER PER THE PARAMETERS OF THE NEW IRRIGATION SYSTEM	---
	FLWMEC HUNTER	FLOW SENSING / MASTER VALVE ASSEMBLY 'C'	08200 (LINE SIZE) / ULTRASONIC) WITH BL-6204 DECODER AND ICV 301 VALVE WITH BP-6201 MY DECODER	INSTALL AS PER MANUFACTURER'S SPECIFICATIONS	L8-27/ L-3.20
	TESCO	ELECTRICAL POINT OF CONNECTION 'A'	28-000		L8-48/ L-3.20
	---	ELECTRICAL POINT OF CONNECTION 'B'	---	RE INTO POWER SUPPLY FOR EXISTING CONTROLLER, VERIFY EXACT CONDITIONS IN FIELD	L8-48/ L-3.20
	TESCO	ELECTRICAL POINT OF CONNECTION 'C'	28-000		L8-48/ L-3.20
	C	BASELINE STRONGBOX CONTROLLER 'A' IN HEAVY DUTY STAINLESS STEEL ENCLOSURE	BASESTATION 8200 RTE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL ENCLOSURE (BL-6200-ES-WM-2N), COMMUNICATION OPTION -CM CELLULAR MODEL INCLUDE 5 YEAR CENTRAL CONTROL PLATFORM PLAN BL-SMWS-PLUS-5Y	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO SALGIAN, EWING, CHICO 530-588-4676, GROUND PER ASIC EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS, INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDESTAL, CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	L8-49/ L-3.20
	C	BASELINE STRONGBOX CONTROLLER 'B' IN HEAVY DUTY STAINLESS STEEL ENCLOSURE	BASESTATION IRRIGATION CONTROLLER SUBSTATION IN HEAVY DUTY PEDESTAL MOUNT ENCLOSURE (BL-SUBST-WM-2N IN P-1800 PEDESTAL) COMMUNICATION OPTION -CM CELLULAR MODEL, CONVENTIONAL WIRE STATIONS ARE REQUIRED TO SERVICE EXISTING VALVES, SELECT (-RS, -RSM, -RSM, OR -RSM) AS NEEDED), INCLUDE 5 YEAR CENTRAL CONTROL PLATFORM FOR SUBSTATIONS, BL-SMWS-SUBST-5Y	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH WIRELESS INTERNET CONNECTION AND SATELLITE CONTROLLERS, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO SALGIAN, EWING, CHICO 530-588-4676, GROUND PER ASIC EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS, INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDESTAL, CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	L8-49/ L-3.20
	C	BASELINE STRONGBOX CONTROLLER 'C' IN HEAVY DUTY STAINLESS STEEL ENCLOSURE	BASESTATION 8200 RTE MANAGEMENT IRRIGATION CONTROLLER IN STAINLESS STEEL ENCLOSURE (BL-6200-ES-WM-2N), COMMUNICATION OPTION -CM CELLULAR MODEL INCLUDE 5 YEAR CENTRAL CONTROL PLATFORM PLAN BL-SMWS-PLUS-5Y	AFTER CONFIGURING FLOW SENSING CAPABILITIES AND COMMUNICATION WITH SERVER, THE CONTRACTOR RESPONSIBLE TO ARRANGE FOR CONTROLLER CERTIFICATION (CONTACT MARCO SALGIAN, EWING, CHICO 530-588-4676, GROUND PER ASIC EARTH GROUNDING GUIDELINES 100-2002 AND MANUFACTURER'S SPECIFICATIONS, INSTALL TERMINAL STRIPS, THERMOSTATICALLY ACTIVATED FAN, POWER CONDITIONER, AND GFI OUTLET WITHIN PEDESTAL, CONTRACTOR IS RESPONSIBLE TO INSTALL THE MOST CURRENT CONFIGURATION OF THE CONTROLLER, ITS COMPONENTS, AND ITS ENCLOSURE INCLUDING CONDUIT SWEEPS	L8-49/ L-3.20
	NECO	ISOLATION VALVE	T-19-LF	LINE SIZE, VALVE MUST BE LEAD FREE.	L8-28/ L-3.21
	HUNTER	QUICK COUPLER VALVE	HO-44JG	INSTALL A MINIMUM OF 6 FEET AWAY FROM TREE PLANTINGS EXCEPT WHERE OTHERWISE NOTED, PROVIDE OWNER WITH 2 COMPATIBLE KEYS PRIOR TO CLOSEOUT.	L8-28/ L-3.21
	HUNTER/BASELINE	DRIP CONTROL ZONE KIT	ABOVE 30 GPM JOZ 1/2" 2 TO 30 GPM JOZ 1-LF BELOW 30 GPM JOZ 1-LF BASELINE 6 BL-6201	---	L8-30/ L-3.21
	---	SINGLE STATION DECODER	---	---	---
	---	PRESSURE MAINLINE	---	PVC SCHEDULE 40	---
	---	NON-PRESSURE LATERAL PIPE	---	PVC SCHEDULE 40	L8-19/ L8-20/ L8-21 + L8-22/ L-3.21
	---	CONTROL WIRE CHASE	1/2" BLUE WIRE DOUBLE JACKETED WEL NON-TWISTED.	1-1/2" DIAM SCHEDULE 40 PVC CONDUIT WITH HEAVY DUTY DECODER CABLE USE BLUE JACKET FOR CONTROLLER A, RED JACKET FOR CONTROLLER B, AND GREEN JACKET FOR CONTROLLER C.	---
	---	IRRIGATION SLEEVE	---	PVC SCHEDULE 40, SIZE PER PLAN	---
	HUNTER	PRESSURE COMPENSATING DRIPPERLINE	HDL-06-9-PC WITH ECO-WRAP	INSTALL AT 18" LINE SPACING	L8-38 + L8-40/ L-3.22
	HUNTER	TRANSITION TO DRIP	FLD-075-18TSE	INSTALL IN CARBON 90 VALVE BOX OR EQUAL, SET ELBOW A MINIMUM OF 1" BELOW TOP OF BOX	L8-39/ L-3.22
	HUNTER	FLUSH VALVE	FLD-8V	INSTALL IN VALVE BOX AS PER PLANS AND DETAILS	L8-40/ L-3.22
	HUNTER	DRIPPERLINE AT TREES	HES-05 AND HDL-06-12	TWO EMITTERS PER TREE, SEE DETAIL.	L8-44/ L-3.22
	---	PULL BOX	---	INSTALL IN CARBON 90 VALVE BOX OR EQUAL, SET ELBOW A MINIMUM OF 1" BELOW TOP OF BOX	L8-45/ L-3.22
	BASELINE/PAGE	CONTROLLER GROUNDING/ SURGE ARRESTORS	FACESPEC GROUND PLATE 1023000 BASELINE SURGE ARRESTORS BL-LA01	INSTALL 1 WITHIN 25 FEET OF CONTROLLER AND EVERY 600 FEET AND DECODER CABLE ENDS.	---
	---	STUB OUT MAINLINE AND CONDUIT	---	STUB UP LATERAL LINE IN A CARBON 90 VALVE BOX	L8-25/ L-3.22

SYMBOLS	
	← VALVE #/CONTROLLER STATION
	← VALVE SIZE
	← FLOW IN GALLONS PER MINUTE

IRRIGATION NOTES

- THIS SYSTEM IS DESIGNED FOR A MAXIMUM DEMAND OF 30 GPM (QUICK COUPLER VALVES). SEE PRESSURE LOSS CALCULATION, SHEET L-300 FOR ANTICIPATED PRESSURE AT WATER METERS. CONTACT THE LANDSCAPE ARCHITECT IN THE EVENT THAT FIELD TESTED PRESSURES ARE LESS THAN STATED, PRIOR TO CONSTRUCTION.
- THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH, ADJUST CLOCK AS REQUIRED TO ACHIEVE THIS GOAL AS REQUIRED BY THE TIME OF YEAR.
- IT IS THE RESPONSIBILITY OF THE LANDSCAPE MAINTENANCE CONTRACTOR AND/OR OWNER TO PROGRAM THE IRRIGATION CONTROLLERS TO PROVIDE THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOUNDS AND SLOPES, AND SUN, SHADE AND WIND EXPOSURES.
- THIS DRAWING IS DIAGRAMMATIC. IRRIGATION COMPONENTS SHOWN BENEATH PAVING OR PLANTINGS ARE FOR GRAPHIC CLARITY ONLY. PLACE ALL PIPING, VALVES, AND OTHER IRRIGATION COMPONENTS WITHIN THE ADJACENT PLANTER EXCEPT WHERE PIPES CROSS PAVING, PLACE PIPING TO PREVENT CONFLICT WITH SUBSEQUENT PLANTING. REFER TO PLANTING PLAN.
- CONTRACTORS/DEVELOPERS ARE RESPONSIBLE TO SUBMIT A FINAL LANDSCAPE PACKAGE INCLUDING AS-BUILTS, PRODUCT AND FIXTURES SUBMITTAL WITH ASSOCIATED MODEL NUMBERS, MANUFACTURER INFORMATION/SPECIFICATIONS, CONTROLLER IRRIGATION VALVE ID AND DESCRIPTION LIST, PROGRAMS, AND LAMINATED 11"x17" COLOR-CODED VALVE CHART(S). DIGITAL COPIES OF SUBMITTALS AND MANUALS IS ACCEPTABLE WITH THE EXCEPTION OF THE LAMINATED VALVE CHART.
- TRENCH ALL MAIN LINES TO PROVIDE A MINIMUM OF 18" COVER, TRENCH ALL LATERAL LINES TO PROVIDE A MINIMUM COVER OF 12". TRENCH ALL MAIN OR LATERAL LINES TO PROVIDE A MINIMUM COVER OF 18" WHERE CROSSING UNDER DRIVEWAY PAVEMENT AND PLACE WITHIN A SCHEDULE 40 SLEEVE, SIZE AS SHOWN.
- INSTALL SLEEVES WHERE SHOWN ON PLAN AND AT ALL LOCATIONS WHERE IRRIGATION PIPES CROSS BENEATH PAVING, PRIOR TO THE PLACEMENT OF PAVING. COORDINATE WITH PAVING CONTRACTOR.
- ALL REMOTE CONTROL VALVES, QUICK COUPLER VALVES, AND FLUSH VALVES SHALL BE INSTALLED IN PLANTER AND IN VALVE BOXES.
- CONTRACTOR IS RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANT MATERIAL. INSTALL ADDITIONAL EMITTERS OR ADJUST SPACING AS REQUIRED.
- MAIN LINE PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALLOUT TO BE 1" PIPE (MAIN LINE PIPE SIZE DIAMETER NOT TO BE LESS THAN 12"). LATERAL PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALLOUT TO BE 3/4" PIPE (LATERAL PIPE SIZE DIAMETER NOT TO BE LESS THAN 3/4").
- IT IS IMPORTANT THAT BOTH THE CONTROLLER AND THE DECODERS ARE GROUND TO GROUND RODS OR PLATES WITH LESS THAN 10 OHMS RESISTANCE. THE GROUND SHOULD ALWAYS BE MEASURED WITH A GROUND RESISTANCE METER. A "CLAMP ON METER" CANNOT BE USED FOR GROUND MEASUREMENT, SINCE THIS IS AN ISOLATED SYSTEM, GROUND RESISTANCE MEASUREMENTS SHOULD BE PERFORMED WITH A "FALL OFF POTENTIAL" TYPE METER IN DECODER SYSTEMS. CONTRACTOR IS RESPONSIBLE TO PROVIDE THE OWNER AND THE CITY OF CHICO WITH A CERTIFIED GROUNDING REPORT SHOWING THE RESULTS OF THE TEST.
- CONTRACTOR IS RESPONSIBLE TO PROVIDE, INSTALL, AND HAVE CERTIFIED FULLY FUNCTIONAL, BASELINE CONTROLLERS. CONNECT CONTROLLERS TO THE CITY CENTRAL CONTROL. CONTRACTOR IS RESPONSIBLE FOR WORKING WITH CITY TO MAKE CONNECTION.
- SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.



Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB					
Checked:	JBB	Date:	12-6-2023			

CITY OF CHICO
PUBLIC WORKS DEPARTMENT



BRUCE ROAD RECONSTRUCTION
LANDSCAPE IRRIGATION PLAN BRUCE ROAD STA. 115+00 TO 118+09.00

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BFLA Project Number: 2414

Project Number:	16038	Drawing Number:	L-319
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 176 of 182

REVISION

BY

DATE

APP. BY COUNCIL

CITY OF CHICO

STANDARD PLAN

DRAWN BY: JB DATE: 6-15-20
CHECKED BY: BF SCALE: NONE
APPROVED: CPSD DIRECTOR

METERED ELECTRICAL SERVICE ENCLOSURE DETAIL

NO. LS-48

SHEET 1 OF 2

REVISION

BY

DATE

APP. BY COUNCIL

1 TESCO MODEL 26-000 TYPE III 4\"/>

2 METER (BY PG&E)

3 METER PEDestal BASE

4 5/8\"/>

5 SERVICE SIDE OF PEDestal (POWER SUPPLIER)

6 LOAD SIDE OF PEDestal (CUSTOMER)

7 COMPACTED SUBGRADE TO 95% RELATIVE DENSITY

8 CONTRACTOR TO INSTALL 4\"/>

9 4\"/>

10 PVC COUPLINGS AT ENDS OF CONDUITS TO PREVENT DAMAGE TO WIRE JACKETS. TYPICAL AT ALL

11 1-1/2\"/>

12 1-1/2\"/>

13 SAND TRENCH BACKFILL PER SPECIFICATIONS. 6\"/>

14 SCH. 40 ELECTRICAL CONDUIT WITH #8 BARE COPPER WIRE TO 5/8\"/>

15 CONDUIT SWEEPS

16 CONCRETE PAD/FOOTING, SLOPE EXPOSED CONCRETE 1/4\"/>

17 #4 REBAR TIES

18 BARRIER BETWEEN POWER PROVIDER SIDE AND CUSTOMER SIDE

GENERAL NOTES:

1 METERED SERVICE ENCLOSURE: 100 AMP METER SOCKET & SUPPORT HARDWARE, 100 AMP MAIN DISCONNECT, DISTRIBUTION PANEL OF ONE 20 AMP CIRCUIT BREAKER (IRRIGATION CONTROLLER), ONE 20 AMP CIRCUIT BREAKER (SPARE). CABINET TO BE PREWIRED AND ALL COMPONENTS TO HAVE FASTENED ENGRAVED NAMEPLATES.

2 REFER TO PROJECT PLANS FOR LOCATION OF PG&E SECONDARY POWER P.O.C., LOCATION OF 120V ELECTRICAL PULL BOXES, CONDUIT SIZES AND AUTO IRRIGATION CONTROLLER LOCATION.

3 ALL ELECTRICAL WORK TO BE PERFORMED BY A LICENSED ELECTRICIAN IN FULL ACCORDANCE W/ NEC & LOCAL CODES.

4 ALL METER PEDestal PADLOCKS TO BE FURNISHED BY THE CITY OF CHICO.

5 SEE SHEET 1 OF 2 FOR DETAIL

CITY OF CHICO

STANDARD PLAN

DRAWN BY: JB DATE: 6-15-20
CHECKED BY: BF SCALE: NONE
APPROVED: CPSD DIRECTOR

METERED ELECTRICAL SERVICE ENCLOSURE KEYNOTES & GENERAL NOTES

NO. LS-48

SHEET 2 OF 2

REVISION

BY

DATE

APP. BY COUNCIL

CITY OF CHICO

STANDARD PLAN

DRAWN BY: JB DATE: 6-15-20
CHECKED BY: BF SCALE: NONE
APPROVED: CPSD DIRECTOR

TOP ENTRY CONTROLLER ENCLOSURE DETAIL

NO. LS-49

SHEET 1 OF 2

REVISION

BY

DATE

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1 16\"/>

2 POURED CONCRETE BASE, 6\"/>

3 1/2\"/>

4 SET GRADE OF TOP OF SLAB ABOVE FINISH GRADE: 1/2\"/>

5 1/2\"/>

6 1\"/>

7 POWER SWITCH AND GFI RECEPTACLE

8 FINISH GRADE

9 PVC COUPLINGS AT ENDS OF CONDUITS TO PREVENT DAMAGE TO WIRE JACKETS. TYPICAL AT ALL

10 PVC SCHEDULE 40 CONDUIT FOR CONTROL WIRES. 3\"/>

11 1-1/4\"/>

12 1-1/2\"/>

13 WIRELESS INTERNET CONNECTION

14 COMPACTED SUBGRADE TO 95% RELATIVE DENSITY

15 RAIN SWITCH ENCLOSURE, STRONG BOX MODEL RQVRSS WITH RAIN GUARD/FREEZE GUARD, WCS MODEL RQFG OR APPROVED EQUAL. SEE PLANS AND SPECIFICATIONS.

16 THERMOSTATICALLY CONTROLLED FAN (STRONGBOX MODEL: OPT-FAN). INSTALL PER MANUFACTURER'S SPECIFICATIONS.

17 SAND TRENCH BACKFILL. 6\"/>

18 CONDUIT SWEEPS. TYPICAL. SEE SPECIFICATIONS.

19 PVC CONDUIT FROM METERED POWER SUPPLY WITH 120VAC WIRE

20 IRRIGATION CONTROLLER; MODEL PER PLANS AND SPECIFICATIONS

21 #4 REBAR TIE

22 4\"/>

23 1\"/>

NOTES:

1 ALL ELECTRICAL WORK TO BE PERFORMED BY A LICENSED ELECTRICIAN IN FULL ACCORDANCE W/ NEC & LOCAL CODES.

2 ENCLOSURE PADLOCKS TO BE FURNISHED BY THE CITY OF CHICO.

3 SEE SHEET 1 OF 2 FOR DETAIL

CITY OF CHICO

STANDARD PLAN

DRAWN BY: JB DATE: 6-15-20
CHECKED BY: BF SCALE: NONE
APPROVED: CPSD DIRECTOR

TOP ENTRY CONTROLLER ENCLOSURE NOTES

NO. LS-49

SHEET 2 OF 2

REVISION

BY

DATE

APP. BY COUNCIL

CITY OF CHICO

STANDARD PLAN

DRAWN BY: JB DATE: 6-15-20
CHECKED BY: BF SCALE: NONE
APPROVED: CPSD DIRECTOR

FLOW SENSOR/ MASTER VALVE ASSEMBLY DETAIL

NO. LS-27

SHEET 1 OF 2

REVISION

BY

DATE

APP. BY COUNCIL

1 MASTER VALVE, NORMALLY CLOSED. INSTALL DOWNSTREAM OF BACKFLOW PREVENTER. MANUFACTURER AND MODEL PER PLANS.

2 FLOW SENSOR, MANUFACTURER AND MODEL PER PLANS.

3 PVC FLOW SENSING MANIFOLD. DIAMETERS AS PER FLOW SENSOR MANUFACTURER SPECIFICATIONS.

4 CONTROL/ COMMON WIRE (OR DECODER CABLE) IN A 2\"/>

5 WATERPROOF CONNECTIONS 3M MODEL DBY-6 OR APPROVED EQUAL.

6 GREEN PLASTIC VALVE BOX WITH BOLT DOWN LOC-KIT; CARSON MODEL 1419 OR APPROVED EQUAL.

7 PVC SCHEDULE 80 UNION, 5 X 5.

8 PVC SCHEDULE 80 NIPPLE, T.O.E.; SIZE PER VALVE SIZE, 3\"/>

9 TWO WIRES TO FLOW SENSOR TERMINAL AT THE IRRIGATION CONTROLLER (18 AWG MIN.). SHIELDED WIRE WITH DIFFERENT COLOR FROM CONTROL/ COMMON WIRE OR DECODER CABLE. INSTALL IN GRAY SCH 40 PVC CONDUIT. WIRES MUST BE RUN IN A SEPARATE CONDUIT FROM CONTROL/ COMMON WIRES OR DECODER CABLE. PIGTAIL 18\"/>

10 SANDED MAINLINE TRENCH. SEE DETAILS LS-19, LS-20, & LS-21.

11 SCH 80 PVC FEMALE ADAPTER (S X T)

12 4\"/>

13 VALVE BOX EXTENSION

14 3/4\"/>

15 1/4\"/>

16 1/2\"/>

17 LANDSCAPE FINISH GRADE.

18 3\"/>

19 PVC MAINLINE. SEE PLANS AND SPECIFICATIONS. SEE DETAILS LS-19, LS-20, & LS-21.

NOTES:

1. INSTALL FLOW SENSOR AS PER MANUFACTURER'S SPECIFICATIONS.

2. INSTALL FLOW SENSOR WIRES IN 1\"/>

3. CONTRACTOR IS RESPONSIBLE TO CONFIGURE THE FLOW METER USING THE HYDRAWISE ACCOUNT. CONTACT CITY OF CHICO TO OBTAIN THE REQUIRED PERMISSIONS OR FOR ASSISTANCE.

4. CONTRACTOR SHALL PROGRAM ONE STATION OF THE CONTROLLER TO ALLOW FOR THE USE OF QUICK COUPLING VALVES WITHOUT TRIGGERING A MASTER VALVE SHUTOFF.

CITY OF CHICO

STANDARD PLAN

DRAWN BY: JB DATE: 6-15-20
CHECKED BY: BF SCALE: NONE
APPROVED: CPSD DIRECTOR

FLOW SENSOR/ MASTER VALVE ASSEMBLY NOTES

NO. LS-27

SHEET 2 OF 2

REVISION

BY

DATE

APP. BY COUNCIL

CITY OF CHICO

STANDARD PLAN

DRAWN BY: JB DATE: 6-15-20
CHECKED BY: BF SCALE: NONE
APPROVED: CPSD DIRECTOR

REDUCED PRESSURE BACKFLOW PREVENTER DETAIL

NO. LS-23

SHEET 1 OF 2

BISHO FIRTH LANDSCAPE ARCHITECTS, INC.
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BFLA Project Number: 2414

Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB					
Checked:	JBB	Date:	12-6-2023			

CITY OF CHICO
PUBLIC WORKS DEPARTMENT



BRUCE ROAD RECONSTRUCTION
LANDSCAPE IRRIGATION DETAILS AND NOTES

Project Number:	16038	Drawing Number:	L-320
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 177 of 182

SECTION VIEW- TRANSITION TO SLEEVING BENEATH PAVING

1 HARDSCAPE FINISH SURFACE.
2 LANDSCAPE FINISH GRADE. SEE SPECIFICATIONS.
3 PVC IRRIGATION SLEEVE. SIZE PER PLAN. EXTEND 1' BEYOND EXTENT OF HARDSCAPE.
4 PULL BOX. SEE DETAIL LS-53 OR LS-54.
5 PVC CONDUIT PER PLAN.
6 PVC MAINLINE PER PLAN.
7 PVC LATERAL LINE PER PLAN.
8 45° PVC FITTING.
9 PVC CONDUIT SWEEP (90°).
10 45° PVC FITTING.
11 PVC CONDUIT SWEEP (90°).
12 45° PVC FITTING.
13 PVC CONDUIT SWEEP (90°).
14 45° PVC FITTING.
15 PVC CONDUIT SWEEP (90°).
16 45° PVC FITTING.
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19 PVC CONDUIT SWEEP (90°).
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36 45° PVC FITTING.
37 PVC CONDUIT SWEEP (90°).
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39 PVC CONDUIT SWEEP (90°).
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41 PVC CONDUIT SWEEP (90°).
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45 PVC CONDUIT SWEEP (90°).
46 45° PVC FITTING.
47 PVC CONDUIT SWEEP (90°).
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51 PVC CONDUIT SWEEP (90°).
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93 PVC CONDUIT SWEEP (90°).
94 45° PVC FITTING.
95 PVC CONDUIT SWEEP (90°).
96 45° PVC FITTING.
97 PVC CONDUIT SWEEP (90°).
98 45° PVC FITTING.
99 PVC CONDUIT SWEEP (90°).
100 45° PVC FITTING.

CITY OF CHICO STANDARD PLAN
DRAWN BY: JB DATE: 6-15-20
CHECKED BY: BF SCALE: NONE
APPROVED: CPD DIRECTOR
TRENCHING DETAIL BENEATH PAVING (VEHICULAR)
NO. LS-21
SHEET 2 OF 2

SECTION VIEW

1 FINISH SURFACE.
2 TRENCH BACKFILL PER SPECIFICATIONS.
3 SIX INCHES SAND FILL COVER ABOVE MAINLINE.
4 PVC SCHEDULE 40 LATERAL LINE.
5 CONTROL WIRES OR DECODER CABLE IN GRAY SCHEDULE 40 PVC CONDUIT. SIZE PER PLAN. 2" DIAM. MIN.
6 6" OR AS NEEDED TO PROVIDE FOR A MINIMUM 4" CLEARANCE BETWEEN PIPES.
7 2" MINIMUM SAND BEDDING BELOW PIPE.
8 SAND BACKFILL PER SPECIFICATIONS.
9 24" MINIMUM COVER BENEATH VEHICULAR PAVING.
10 PVC MAINLINE.
11 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL.
12 IRRIGATION SLEEVE PER IRRIGATION PLAN. SIZE PER PLAN. 4" MINIMUM.
13 VEHICULAR PAVING PER CITY STANDARDS.
14 PAVING SUBGRADE PER CITY STANDARDS.
15 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL.
16 IRRIGATION SLEEVE PER IRRIGATION PLAN. SIZE PER PLAN. 4" MINIMUM.
17 VEHICULAR PAVING PER CITY STANDARDS.
18 PAVING SUBGRADE PER CITY STANDARDS.
19 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL.
20 IRRIGATION SLEEVE PER IRRIGATION PLAN. SIZE PER PLAN. 4" MINIMUM.
21 VEHICULAR PAVING PER CITY STANDARDS.
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23 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL.
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25 VEHICULAR PAVING PER CITY STANDARDS.
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67 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL.
68 IRRIGATION SLEEVE PER IRRIGATION PLAN. SIZE PER PLAN. 4" MINIMUM.
69 VEHICULAR PAVING PER CITY STANDARDS.
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82 PAVING SUBGRADE PER CITY STANDARDS.
83 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL.
84 IRRIGATION SLEEVE PER IRRIGATION PLAN. SIZE PER PLAN. 4" MINIMUM.
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89 VEHICULAR PAVING PER CITY STANDARDS.
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92 IRRIGATION SLEEVE PER IRRIGATION PLAN. SIZE PER PLAN. 4" MINIMUM.
93 VEHICULAR PAVING PER CITY STANDARDS.
94 PAVING SUBGRADE PER CITY STANDARDS.
95 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL.
96 IRRIGATION SLEEVE PER IRRIGATION PLAN. SIZE PER PLAN. 4" MINIMUM.
97 VEHICULAR PAVING PER CITY STANDARDS.
98 PAVING SUBGRADE PER CITY STANDARDS.
99 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL.
100 IRRIGATION SLEEVE PER IRRIGATION PLAN. SIZE PER PLAN. 4" MINIMUM.

CITY OF CHICO STANDARD PLAN
DRAWN BY: JB DATE: 6-15-20
CHECKED BY: BF SCALE: NONE
APPROVED: CPD DIRECTOR
TRENCHING DETAIL BENEATH PAVING (VEHICULAR)
NO. LS-21
SHEET 1 OF 2

SECTION VIEW

1 FINISH SURFACE OF PAVING.
2 TRENCH BACKFILL PER SPECIFICATIONS.
3 SIX INCHES SAND FILL COVER ABOVE MAINLINE.
4 PVC SCHEDULE 40 LATERAL LINE.
5 CONTROL WIRES OR DECODER CABLE IN GRAY SCHEDULE 40 PVC CONDUIT. SIZE PER PLAN. 2" DIAM. MIN.
6 6" OR AS NEEDED TO PROVIDE FOR A MINIMUM 4" CLEARANCE BETWEEN PIPES.
7 2" MINIMUM SAND BEDDING BELOW PIPE.
8 SAND BACKFILL PER SPECIFICATIONS.
9 18" MINIMUM COVER BENEATH NON-VEHICULAR PAVING.
10 PVC MAINLINE.
11 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL.
12 IRRIGATION SLEEVE PER IRRIGATION PLAN. SIZE PER PLAN. 4" MINIMUM.
13 PEDESTRIAN PAVING PER CITY STANDARDS.
14 PAVING SUBGRADE PER CITY STANDARDS.
15 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL.
16 IRRIGATION SLEEVE PER IRRIGATION PLAN. SIZE PER PLAN. 4" MINIMUM.
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91 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL.
92 IRRIGATION SLEEVE PER IRRIGATION PLAN. SIZE PER PLAN. 4" MINIMUM.
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94 PAVING SUBGRADE PER CITY STANDARDS.
95 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL.
96 IRRIGATION SLEEVE PER IRRIGATION PLAN. SIZE PER PLAN. 4" MINIMUM.
97 PEDESTRIAN PAVING PER CITY STANDARDS.
98 PAVING SUBGRADE PER CITY STANDARDS.
99 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL.
100 IRRIGATION SLEEVE PER IRRIGATION PLAN. SIZE PER PLAN. 4" MINIMUM.

CITY OF CHICO STANDARD PLAN
DRAWN BY: JB DATE: 6-15-20
CHECKED BY: BF SCALE: NONE
APPROVED: CPD DIRECTOR
TRENCHING DETAIL BENEATH PAVING (NON-VEHICULAR)
NO. LS-20

SECTION VIEW

1 FINISH GRADE.
2 TRENCH BACKFILL PER SPECIFICATIONS.
3 SIX INCHES SAND FILL COVER ABOVE MAINLINE.
4 PVC SCHEDULE 40 LATERAL LINE.
5 CONTROL WIRES OR DECODER CABLE IN GRAY SCHEDULE 40 PVC CONDUIT. SIZE PER PLAN. 2" DIAM. MIN.
6 6" OR AS NEEDED TO PROVIDE FOR A MINIMUM 4" CLEARANCE BETWEEN PIPES.
7 2" MIN. SAND BEDDING BELOW PIPING.
8 LATERAL -12" MIN. COVER.
9 MAINLINE -18" MIN. COVER.
10 PVC MAINLINE.
11 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL.
12 2" MIN. SEPARATION.
13 SAND BACKFILL PER SPECIFICATIONS.
14 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL.
15 2" MIN. SEPARATION.
16 SAND BACKFILL PER SPECIFICATIONS.
17 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL.
18 2" MIN. SEPARATION.
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100 SAND BACKFILL PER SPECIFICATIONS.

CITY OF CHICO STANDARD PLAN
DRAWN BY: JB DATE: 6-15-20
CHECKED BY: BF SCALE: NONE
APPROVED: CPD DIRECTOR
STANDARD TRENCHING DETAIL
NO. LS-19

SECTION VIEW

1 FINISH GRADE.
2 SET TOP OF BOX ABOVE FINISH GRADE: 1/2" IN SEED, 1-1/2" IN SOIL, 3-1/2" IN PLANTER OR DECOMPOSED GRANITE OR CRUSHED ROCK. LEVEL WITH ADJACENT HARDSCAPE.
3 ALLOW 3" BETWEEN TOP OF VALVE BOX AND PVC PIPE.
4 CARSON 910 OR EQUAL 10" DIAMETER GREEN PLASTIC VALVE BOX WITH BOLT DOWN LOCKING LID.
5 8" DIAMETER VERTICAL EXTENSION SCH 40 PVC PIPE. LENGTH AS REQUIRED. NOTCH TO ACCEPT MAINLINE.
6 PEA GRAVEL AS REQUIRED BETWEEN VALVE BOX AND VERTICAL PIPE.
7 (3) COMMON BRICKS FOR SUPPORT.
8 NIBCO T-113-K-LF LEAD FREE THREADED GATE VALVE WITH BRONZE CROSSHANDLE AND NON-RISING STEM (OR APPROVED EQUAL. LINE SIZE, MODEL PER PLANS).
9 3/4" DRAIN ROCK; 6" DEPTH.
10 SCH. 80 NIPPLE, T.O.E. 6" MIN. LENGTH.
11 1/4" GALVANIZED WIRE CLOTH.
12 USE MIN. 5 WRAPS OF TEFLON TAPE AT EACH THREADED CONNECTION.
13 IRRIGATION MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
14 SAND FILLED IRRIGATION MAINLINE TRENCH. SEE DETAILS LS-19, LS-20, & LS-21.
15 COUPLING, SXS.
16 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. SEE DETAILS LS-19, LS-20, & LS-21.

CITY OF CHICO STANDARD PLAN
DRAWN BY: JB DATE: 6-15-20
CHECKED BY: BF SCALE: NONE
APPROVED: CPD DIRECTOR
GATE VALVE DETAIL
NO. LS-26

SECTION VIEW

1 BLOCK OPENING AROUND PIPE AS REQUIRED TO PREVENT SOIL INTRUSION.
2 1/4" GALVANIZED WIRE CLOTH PLACED ABOVE GRAVEL.
3 REMOTE CONTROL DRIFF VALVE ASSEMBLY. SIZE AND MODEL PER PLAN.
4 LOCKING WATERPROOF WIRE CONNECTOR, MODEL DRY-6 OR APPROVED EQUAL.
5 FINISH GRADE.
6 1/2" IN SEED 1-1/2" IN SOIL 3-1/2" IN PLANTER AND/OR DECOMPOSED GRANITE.
7 PVC SCHEDULE 40 LATERAL LINE PROVIDE 18" LENGTH PRIOR TO FIRST FITTING. SEE DETAILS LS-19, LS-20, & LS-21.
8 SCHEDULE 80 PVC UNION, SXS.
9 SCHEDULE 40 PVC ELBOW (SXS).
10 DECODER CABLE PER PLAN AND SPECIFICATIONS. PROVIDE MIN. 18" EXTRA COILED.
11 SCHEDULE 40 PVC PIPE LENGTH AS REQUIRED. SEE DETAILS LS-19, LS-20, & LS-21.
12 PVC MAINLINE. 18" MINIMUM COVER. SEE DETAILS LS-19, LS-20, & LS-21.
13 3/4" CRUSHED ROCK; 6" DEPTH.
14 SCHEDULE 80 PVC NIPPLE THREAD ONE END.
15 GRAY PVC SCHEDULE 40 ELECTRICAL CONDUIT. SIZE PER PLAN. SEE SPECIFICATIONS. SEE DETAILS LS-19, LS-20, & LS-21.
16 PVC SCHEDULE 40 CONDUIT SWEEP, COUPLED BOTH ENDS.
17 4 COMMON BRICKS FOR VALVE BOX SUPPORT.
18 SAND TRENCH BACKFILL. 18" ABOVE MAINLINE, 2" BELOW, MINIMUM. SEE DETAILS LS-19, LS-20, & LS-21.
19 CHRISTY D-MAX-P2-RC005 WITH CONTROLLER AND VALVE NUMBER IDENTIFICATION TO VALVE STEM WITH NYLON CABLE TIE. SEE SPECIFICATIONS.
20 PVC BALL VALVE BOX. LINE SIZE.
21 PVC CONDUIT COUPLER. SOLVENT WELD TO CONDUIT PIPE ENDS. PROVIDE 4" CLEAR SPACE ABOVE CRUSHED ROCK.
22 2 WIRE DECODER MODULE.
23 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
24 SCHEDULE 40 PVC TEE (SXS/SXS).
25 ALL SLP FITTINGS TO BE PRIMED AND OILED.
26 ONE VALVE PER BOX.
27 INSTALL MINIMUM OF 12" FROM STRUCTURE OR HARDSCAPE.
28 INSTALL IN PLANTER BEDS WHERE POSSIBLE.
29 PLACE VALVE BOX AT RIGHT ANGLES TO STRUCTURES OR HARDSCAPE.
30 USE MIN. 5 WRAPS OF TEFLON TAPE AT EACH THREADED CONNECTION.

CITY OF CHICO STANDARD PLAN
DRAWN BY: JB DATE: 6-15-20
CHECKED BY: BF SCALE: NONE
APPROVED: CPD DIRECTOR
DRIFF CONTROL VALVE DETAIL (2 WIRE SYSTEMS)
NO. LS-30

SECTION VIEW

1 FINISH GRADE.
2 SET TOP OF BOX ABOVE FINISH GRADE: 1" IN SOIL, 3-1/2" IN PLANTER OR DECOMPOSED GRANITE.
3 QUICK COUPLING VALVE WITH LOCKING RUBBER COVER. SEE PLANS FOR MAKE AND MODEL.
4 SET QUICK COUPLER 12" FROM EDGE OF PLANTING AREA.
5 CURB, HEADER OR PAVING.
6 PLASTIC VALVE BOX: CARSON 910 OR APPROVED EQUAL. INSTALL WITH LOCKING BOLT DOWN KIT.
7 LASCO STANDARD UNITIZED SWING JOINT OR APPROVED EQUAL. 1" MINIMUM SIZE. WITH SNAP-LOK STABILIZER ELBOW. OUTLET INLET IS MPT. OUTLET IS BRASS MPT W/SNAP LOK.
8 SCHEDULE 40 PVC TEE (SXS/XT).
9 PRESSURE MAINLINE. SIZE AND TYPE PER PLAN. 18" MINIMUM COVER. SEE DETAILS LS-19, LS-20, & LS-21.
10 3" CRUSHED DRAIN ROCK; 6" DEPTH.
11 1/4" GALVANIZED WIRE CLOTH PLACED ABOVE GRAVEL.
12 #8 (1" DIA.) X 30" REBAR. INSTALL PLUMB AND TRUE. SECURE TO QUICK COUPLER VALVE WITH STAINLESS STEEL HOSE CLAMPS AND SCREWS (TYP. 2 PLCS.).
13 (3) COMMON BRICKS FOR SUPPORT.
14 SCH. 80 NIPPLE, T.O.E.
15 STAINLESS STEEL HOSE CLAMP WITH STAINLESS STEEL SCREWS (TYP. 2 PLCS.).
16 SANDED MAINLINE TRENCH. SEE DETAILS LS-19, LS-20, & LS-21.
17 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
18 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
19 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
20 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
21 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
22 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
23 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
24 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
25 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
26 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
27 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
28 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
29 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
30 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
31 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
32 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
33 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
34 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
35 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
36 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
37 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
38 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
39 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
40 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
41 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
42 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
43 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
44 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
45 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
46 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
47 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
48 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
49 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
50 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
51 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
52 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
53 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
54 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
55 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
56 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
57 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
58 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
59 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
60 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
61 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
62 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.
63 3" DETECTABLE TAPE. CHRISTY MODEL TA-DT-03-B-RR OR EQUAL. INSTALL ABOVE ALL MAINLINE

SECTION VIEW

1 FINISH GRADE
2 SET TOP OF BOX ABOVE FINISH GRADE:
1-1/2" IN SEED
3-1/2" IN PLANTER OR DECOMPOSED GRANITE.
3 COMMON BRICKS FOR SUPPORT
4 GRAY PLASTIC VALVE BOX WITH LOCKING COVER, CARSON MODEL 910-GRAY OR 149-GRAY OR APPROVED EQUAL. INSTALL WITH LOCKING BOLT KIT.
5 3/4" CRUSHED ROCK, 6" MINIMUM DEPTH
6 1/4" GALVANIZED WIRE CLOTH
7 PVC CONDUIT COUPLER, SOLVENT WELD TO CONDUIT PIPE ENDS. PROVIDE 4" CLEAR SPACE ABOVE CRUSHED ROCK.
8 GRAY SCHEDULE 40 PVC ELECTRICAL CONDUIT
9 PVC SCHEDULE 40 CONDUIT SWEEP ELBOWS WITH COUPLERS BOTH ENDS. DECODER CABLE (WHERE APPLICABLE). PROVIDE MINIMUM 18" COILED EXTRA.
10 IRRIGATION MAINLINE (WHERE APPLICABLE)
11 SAND BACKFILL AT MAINLINE- 6" ABOVE AND 2" BELOW, MINIMUM.
12 3" DETECTABLE TAPE, CHRISTY MODEL TA-DT-03-B-IRR OR EQUAL. INSTALL ABOVE ALL MAINLINE. SEE DETAILS LS-19, LS-20, & LS-21.

NOTES:
1. PULL BOXES SHALL BE INSTALLED AT BOTH SIDES OF CROSSINGS BENEATH ROADWAY PAVING AND AT BENDS ALONG CONDUIT ROUTE.
2. USE LOCKING WATERPROOF WIRE CONNECTOR, MODEL DWT-6 OR APPROVED EQUAL FOR ALL WIRE SPLICES

CITY OF CHICO STANDARD PLAN
DRAWN BY: JB DATE: 6-15-20
CHECKED BY: BF SCALE: NONE
APPROVED: CPSD DIRECTOR
PULL BOX DETAIL (2 WIRE) NO. LS-53

SECTION VIEW

1 COMPRESSION FLUSH VALVE, MANUFACTURER/ MODEL PER PLAN.
2 FINISH GRADE
3 SET TOP OF BOX ABOVE FINISH GRADE:
1-1/2" IN SEED
3-1/2" IN SOO
3-1/2" IN PLANTER
4 PLASTIC VALVE BOX WITH BOLT DOWN LOC-KIT; CARSON MODEL 910 OR APPROVED EQUAL.
5 HEAVY DUTY SUBSURFACE DRIPPERLINE (MODEL PER PLANS)
6 3/4" CRUSHED ROCK; 6" - 8" DIAMETER X 24" DEPTH
7 1/4" GALVANIZED WIRE CLOTH
8 COMMON BRICKS FOR SUPPORT, 3 (MIN.), TYPICAL AT ALL VALVE BOXES.
9 UNDISTURBED SUBGRADE
10 "SCRATCH IN" DRIPPERLINE. SEE SPECIFICATIONS.

CITY OF CHICO STANDARD PLAN
DRAWN BY: JB DATE: 6-15-20
CHECKED BY: BF SCALE: NONE
APPROVED: CPSD DIRECTOR
DRIPPERLINE MANUAL FLUSH VALVE DETAIL NO. LS-43

SECTION VIEW

1 FINISH GRADE
2 HEAVY DUTY SUB-SURFACE DRIPPERLINE FITTING: 2-WAY TEE OR EL, AS REQUIRED (3/4" THREAD X BARB). MANUFACTURER PER PLAN. HOLD DOWN 2" FROM BOTTOM OF VALVE BOX LID.
3 HEAVY DUTY SUB-SURFACE DRIPPERLINE (MANUFACTURER/ MODEL PER PLANS). MODEL PER PLAN.
4 BLANK HEAVY DUTY SUBSURFACE DRIPPERLINE RISER WITH MPT FITTINGS. LENGTH AS REQUIRED.
5 PVC SCHEDULE 80 TEE OR EL (5x5xT)
6 3/4" PVC SCHEDULE 40 LATERAL LINE. SEE DETAILS LS-19, LS-20, & LS-21.
7 SET TOP OF BOX ABOVE FINISH GRADE:
1-1/2" IN SEED
3-1/2" IN SOO
3-1/2" IN PLANTER OR DECOMPOSED GRANITE.
8 PLASTIC VALVE BOX WITH BOLT DOWN LOC-KIT; CARSON MODEL 910 OR APPROVED EQUAL
9 3/4" CRUSHED ROCK, 6" MINIMUM DEPTH
10 1/4" GALVANIZED WIRE CLOTH
11 COMMON BRICKS FOR SUPPORT, 3 (MIN.), TYPICAL AT ALL VALVE BOXES.
12 "SCRATCH IN" DRIPPERLINE. SEE SPECIFICATIONS.

CITY OF CHICO STANDARD PLAN
DRAWN BY: JB DATE: 6-15-20
CHECKED BY: BF SCALE: NONE
APPROVED: CPSD DIRECTOR
TRANSITION TO DRIPPERLINE DETAIL NO. LS-39

PLAN VIEW

1 MAINLINE
2 TEE OR EL FITTINGS AS REQUIRED
3 SUPPLY OR EXHAUST HEADER (BLANK DRIPPERLINE)
4 DRIP LINE TUBING LATERAL
5 VACUUM RELIEF VALVE PLUMBED TO DRIP LINE AT HIGH POINT OF SYSTEM, WHERE APPLICABLE. LOCATED ON PLANS. SEE DETAIL LS-41
6 AIR RELIEF LATERAL, WHERE APPLICABLE. TO BE LOCATED AT THE HIGHEST POINT OF DRIPPERLINE CIRCUITS. SEE PLANS.
7 EXHAUST HEADER, BLANK DRIPPERLINE WITH FITTINGS AS REQUIRED.
8 PERIMETER LATERALS FROM EDGE- 6" MINIMUM OR AS OTHERWISE NOTED.
9 LINE FLUSHING VALVE, MODEL PER PLANS. SEE DETAIL LS-42 OR LS-43.
10 DISTANCES PER PLANS.
11 TRANSITION TO DRIPPERLINE. SEE DETAIL LS-39

NOTES:
1 REMOTE CONTROL VALVE. SEE DETAIL. MODEL PER PLANS.
2 SUPPLY HEADER, BLANK DRIPPERLINE WITH FITTINGS.
3 DRIPPERLINE FITTINGS AS REQUIRED.
4 DRIP LINE TUBING LATERAL, MANUFACTURER/ MODEL PER PLANS. SEE DETAIL LS-40.
5 AREA PERIMETER (SEE PLANS).
6 VACUUM RELIEF VALVE PLUMBED TO DRIP LINE AT HIGH POINT OF SYSTEM, WHERE APPLICABLE. LOCATED ON PLANS. SEE DETAIL LS-41
7 AIR RELIEF LATERAL, WHERE APPLICABLE. TO BE LOCATED AT THE HIGHEST POINT OF DRIPPERLINE CIRCUITS. SEE PLANS.
8 EXHAUST HEADER, BLANK DRIPPERLINE WITH FITTINGS AS REQUIRED.
9 PERIMETER LATERALS FROM EDGE- 6" MINIMUM OR AS OTHERWISE NOTED.
10 LINE FLUSHING VALVE, MODEL PER PLANS. SEE DETAIL LS-42 OR LS-43.
11 DISTANCES PER PLANS.
12 TRANSITION TO DRIPPERLINE. SEE DETAIL LS-39

CITY OF CHICO STANDARD PLAN
DRAWN BY: JB DATE: 6-15-20
CHECKED BY: BF SCALE: NONE
APPROVED: CPSD DIRECTOR
SUBTERRANEAN DRIP LINE LAYOUT NO. LS-38

SECTION VIEW

1 TREE ROOTBALL. SEE TREE PLANTING DETAIL FOR ADDITIONAL INFORMATION.
2 TREE PLANTING HOLE. SEE TREE PLANTING DETAIL FOR ADDITIONAL INFORMATION.
3 LINE FLUSHING VALVE. SEE DETAIL LS-42 OR LS-43.
4 PVC LATERAL PIPE AND FITTING. INSTALL 8"-10" MIN OR AS CLEAR OF TREE AS POSSIBLE. AVOID PLACING IN PARKWAY STRIPS- INSTALLATION AT BACK OF WALK IS PREFERRED.
5 TREE. SEE PLANTING PLAN AND TREE PLANTING DETAIL.
6 TREE STAKE (TYPICAL). SEE TREE PLANTING DETAIL.
7 OPTIONAL TEMPORARY WATER RETENTION BERM (TYPICAL). SEE TREE PLANTING DETAIL FOR ADDITIONAL INFORMATION.
8 LANDSCAPE FINISH GRADE AS PER PLANTING SPECIFICATIONS
9 BLANK DRIPPERLINE (NO INLINE EMITTERS) WITH BARBED COMPRESSION FITTINGS.
10 IRRIGATION EMITTER, MODEL PER IRRIGATION PLAN, 2 PER TREE. USE 1" DISTRIBUTION TUBING TO DISTRIBUTE WATER TO TREE ROOTBALL. SECURE TO ROOTBALL WITH 1" DISTRIBUTION TUBING STAKE.
11 ROOT BARRIER (WHERE APPLICABLE). REFER TO TREE PLANTING DETAILS.
12 UNDISTURBED SUBGRADE
13 CONCRETE FLATWORK (WHERE APPLICABLE)
14 TOP DRESSING, PER SPECIFICATIONS
15 DRIPPERLINE PER PLAN, "SCRATCH -IN" PER SPECIFICATIONS.
16 6" MIN SOIL STAPLES AS SHOWN, TYPICAL.
17 TRANSITION TO DRIP. SEE DETAIL LS-39.
18 SCH 40 PVC "T" (5x5xT)

PLAN VIEW

NOTE: OMIT OUTER RING OF DRIPPERLINE AND ADJUST LAYOUT AS REQUIRED TO FIT INTO THE SMALLER PLANTERS AT THE NOSES OF THE MEDANS.

CITY OF CHICO STANDARD PLAN
DRAWN BY: JB DATE: 6-15-20
CHECKED BY: BF SCALE: NONE
APPROVED: CPSD DIRECTOR
DRIPPERLINE DETAIL AT TREES NO. LS-44

SECTION VIEW

1 SET TOP OF BOX ABOVE FINISH GRADE:
1-1/2" IN SEED
1-1/2" IN SOO
3-1/2" IN PLANTER OR DECOMPOSED GRANITE
2 FINISH GRADE
3 "SCRATCH IN" DRIPPERLINE. SEE SPECIFICATIONS.
4 SPACING VARIES. SEE PLANS.
5 SUB-GRADE. SEE PROJECT PLANS AND SPECIFICATIONS.
6 HEAVY DUTY SUB-SURFACE DRIPPERLINE, MANUFACTURER/ MODEL PER PLAN
7 METAL SOIL STAPLE, 6" MINIMUM LENGTH @ 4'-0" O.C., AT CHANGES IN DIRECTION, AND AT FITTINGS.
8 6" MINIMUM FROM PAVING
9 PAVING

CITY OF CHICO STANDARD PLAN
DRAWN BY: JB DATE: 6-15-20
CHECKED BY: BF SCALE: NONE
APPROVED: CPSD DIRECTOR
SUBSURFACE DRIPPERLINE DETAIL NO. LS-40

SECTION VIEW

1 ROUND PLASTIC VALVE BOX WITH BOLT DOWN LOC-KIT, CARSON MODEL 910 OR APPROVED EQUAL.
2 DECODER CABLE, PROVIDE MIN. 30" COILED EXTRA. SEE SPECIFICATIONS.
3 WATERPROOF WIRE CONNECTOR, DWT-6 OR APPROVED EQUAL.
4 FINISH GRADE
5 SCHEDULE 40 PVC ELBOW, 5x5.
6 PVC MAINLINE STUB-UP.
7 SCHEDULE 40 PVC CAP, SUP.
8 PVC SCHEDULE 40 CONDUIT, SIZE PER PLAN.
9 PVC SCHEDULE 40 CONDUIT SWEEP, COUPLED BOTH ENDS.
10 PVC CONDUIT COUPLER, SOLVENT WELD TO CONDUIT PIPE ENDS. PROVIDE 4" CLEAR SPACE ABOVE CRUSHED ROCK.
11 3" DETECTABLE TAPE, CHRISTY MODEL TA-DT-03-B-IRR OR EQUAL. SEE DETAILS LS-19, LS-20, & LS-21.
12 SET TOP OF VALVE BOX ABOVE FINISH GRADE:
1-1/2" IN SEED, 1-1/2" IN SOO, 3-1/2" IN PLANTER OR DECOMPOSED GRANITE.
13 12" FROM HARDSCAPE.
14 3/4" CRUSHED ROCK, 6" DEPTH MINIMUM.
15 1/4" GALVANIZED WIRE CLOTH.
16 3 COMMON BRICKS FOR SUPPORT.
17 SAND BACKFILL AT MAINLINE- 6" ABOVE AND 2" BELOW, MINIMUM. SEE DETAILS LS-19, LS-20, & LS-21.
18 3" DETECTABLE TAPE, CHRISTY MODEL TA-DT-03-B-IRR OR EQUAL. SEE DETAILS LS-19, LS-20, & LS-21.

NOTES:
1. ALL SLIP FITTINGS TO BE PRIMED AND GLUED.
2. INSTALL MINIMUM OF 12" FROM STRUCTURES OR HARDSCAPE.
3. INSTALL IN PLANTER BEDS WHERE POSSIBLE.
4. PLACE VALVE BOX AT RIGHT ANGLES TO STRUCTURES OR HARDSCAPE.

CITY OF CHICO STANDARD PLAN
DRAWN BY: JB DATE: 6-15-20
CHECKED BY: BF SCALE: NONE
APPROVED: CPSD DIRECTOR
STUB OUT DETAIL (2 WIRE) NO. LS-25

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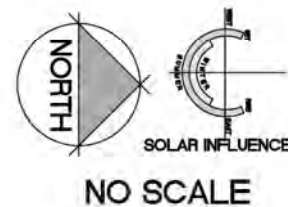
Designed:	JBB	Approved:		Revision	Date	By
Drawn By:	JBB/ TDB					
Checked:	JBB	Date:	12-6-2023			

CITY OF CHICO
PUBLIC WORKS DEPARTMENT



BRUCE ROAD RECONSTRUCTION
LANDSCAPE IRRIGATION DETAILS AND NOTES

Project Number:	16038	Drawing Number:	L-322
Scale:	PER PLAN Horizontal	PER PLAN Vertical	Sheet 179 of 182



Valve Chart- Controller A							
Valve Number	Hydrozone	Flow(GPM)	Water Use	Irrigation Method	Area (Square Feet)	Percent of Landscape Area	Remarks
1	Shrubs	11.6	Low	Drip	1,736	10%	
2	Shrubs	17.9	Low	Drip	4,048	23%	
3	Shrubs	23.3	Low	Drip	5,233	30%	
4	Shrubs	6.99	Low	Drip	1,548	9%	
5	Shrubs	17.5	Low	Drip	3,831	22%	
6	Trees	0.66	Medium	Drip	64	0%	
7	Trees	0.16	Medium	Drip	784	4%	
8	Tree	0.39	Medium	Drip	112	1%	
9	Trees	2	Medium	Drip	262	1%	
10	Quick Couplers		NA	NA		0	0%
Total Landscape Area					17,688	39%	

Parameters: Low water lake shrub map												
Day	Month	Early ET	Midday ET	Water Per Irrig	PROPOTED PER	SOILS PER	WATER PER	WATER PER	WATER PER	WATER PER	WATER PER	WATER PER
					Per Acre	Per Acre	Per Acre	Per Acre	Per Acre	Per Acre	Per Acre	Per Acre
20	JAN	0.04	1.30	0.3	0.80	0.09	0.40	6	30	2	3	1
20	FEB	0.06	1.30	0.4	0.80	0.11	0.40	8	30	2	4	1
21	MAR	0.09	2.30	0.7	0.80	0.16	0.40	12	30	2	6	2
20	APR	0.11	4.10	1.2	0.80	0.27	0.40	20	30	3	11	3
21	MAY	0.16	5.10	1.5	0.80	0.34	0.40	26	30	3	2	3
20	JUN	0.25	7.40	1.8	0.80	0.43	0.40	32	30	4	3	3
21	JUL	0.27	5.80	2.1	0.80	0.41	0.40	36	30	5	1	3
20	AUG	0.21	1.30	1.8	0.80	0.41	0.40	34	30	4	5	3
20	SEPT	0.16	5.40	1.3	0.80	0.31	0.40	23	30	3	3	3
21	OCT	0.12	3.60	0.9	0.80	0.21	0.40	15	30	1	3	3
20	NOV	0.09	1.60	0.4	0.80	0.09	0.40	7	30	2	3	1
21	DEC	0.04	1.00	0.2	0.80	0.05	0.40	4	30	2	3	1

Hydrozone 2, Marine Mammal Survey Data												
Date	Month	Day	Hour	Lat	Long	Depth	Water	Wind	Wave	Time	Count	Notes
01	JAN	01	12	07	08	0.2	0.4	13	30	0	4	1
28	FEB	06	13	23	08	0.5	0.4	38	30	4	9	3
01	MAR	08	23	33	09	0.7	0.4	85	30	5	11	3
30	APR	01	13	53	0.5	1.2	0.4	53	30	5	19	6
01	MAY	21	5	69	0.5	1.5	0.4	165	30	5	19	6
01	JUN	22	14	69	0.5	1.9	0.4	140	30	5	21	6
01	JUL	31	8	9	0.5	2.3	0.4	150	30	5	21	6
01	AUG	28	13	82	0.5	1.8	0.4	125	30	6	24	6
01	SEPT	21	5	61	0.5	1.8	0.4	100	30	5	18	6
01	OCT	12	34	42	0.5	0.9	0.4	70	30	5	14	6
01	NOV	08	13	18	0.5	0.4	0.4	32	30	4	8	3
01	DEC	01	13	13	0.5	0.3	0.4	19	30	3	5	2

Worksheet: Low Value Data Input Log												
Card	Month	Card Exp.	Month 1 Exp.	Month 2 Exp.	Proposed Rate	Actual Pct / Week	Alternate Rate	Old Rate Pct / Week	New Rate Pct / Week	Month 1 Pct/Week	Month 2 Pct/Week	Month 3 Pct/Week
21	JAN	0.04	1.20	0.3	0.8	0.1	0.40	5	30	2	3	1
28	FEB	0.06	1.80	0.4	0.9	0.1	0.40	8	30	2	4	1
31	MAR	0.09	2.90	0.7	0.9	0.2	0.40	12	30	2	6	1
30	APR	0.11	4.10	1.2	0.9	0.3	0.40	20	30	3	1	1
21	MAY	0.16	6.10	1.5	0.9	0.3	0.40	28	30	3	9	1
30	JUN	0.25	7.40	1.8	0.8	0.4	0.40	38	30	4	8	1
31	JUL	0.28	8.50	2.1	0.8	0.5	0.40	36	30	5	1	1
31	AUG	0.25	1.30	1.8	0.9	0.4	0.40	31	30	4	8	1
28	SEP	0.18	5.40	1.2	0.9	0.3	0.40	23	30	3	8	1
31	OCT	0.12	3.10	0.9	0.8	0.2	0.40	15	30	2	3	1
30	NOV	0.08	1.60	0.4	0.8	0.1	0.40	7	30	2	3	1
31	DEC	0.04	1.10	0.2	0.8	0.1	0.40	4	30	2	2	1

Hydrozones 2, Medium scale/Use Trees, Drip												
Zone	Month	Can ET	Monthly ET	Water Per Month	Pipe/Inches Rate	Wells Per Month	W/Inches Rate	Units Per Month	Electricity Rate	Water Cost Per Month	Water Per Month Day	Electricity Cost
20	JAN	0.04	1.20	0.1	0.5	0.2	0.40	13	30	3	4	1
20	FEB	0.05	1.80	2.0	0.5	0.5	0.40	38	30	4	9	1
21	MAR	0.09	2.90	3.3	0.5	0.7	0.40	65	30	5	11	1
20	APR	0.11	4.10	5.3	0.5	1.2	0.40	97	30	5	19	1
21	MAY	0.16	6.10	6.9	0.5	1.5	0.40	116	30	6	19	1
20	JUN	0.25	7.40	9.3	0.5	1.9	0.40	145	30	6	24	1
21	JUL	0.30	9.50	9.6	0.5	2.2	0.40	162	30	6	27	1
21	AUG	0.35	7.30	8.2	0.5	1.9	0.40	159	30	6	23	1
20	SEP	0.18	5.40	6.1	0.5	1.4	0.40	106	30	5	10	1
21	OCT	0.12	3.70	4.2	0.5	0.9	0.40	70	30	3	14	1
20	NOV	0.05	1.60	1.8	0.5	0.4	0.40	32	30	4	8	1
21	DEC	0.04	1.00	1.1	0.5	0.3	0.40	19	30	3	6	1

IRRIGATION SCHEDULE NOTE:
IRRIGATION SCHEDULES ARE BASED UPON THE BEST SEASONAL DATA AVAILABLE. THE CONTRACTOR IS RESPONSIBLE FOR THE ESTABLISHMENT OF PLANT MATERIAL AND MAY NEED TO MAKE SOME ADJUSTMENTS IN ORDER TO PROVIDE ADEQUATE IRRIGATION FOR OPTIMAL PLANT GROWTH. IT SHOULD ALSO BE NOTED THAT THE IRRIGATION CONTROLLER IS CONNECTED TO A SENSOR THAT PROVIDES REALTIME DATA THAT THE CONTROLLER UTILIZES TO ADJUST THE BASELINE SCHEDULE TO PROVIDE OPTIMAL IRRIGATION. ONCE PLANT MATERIAL HAS BEEN ESTABLISHED, ALL IRRIGATION SHALL OCCUR BETWEEN THE HOURS OF 8PM AND 10 AM.

Enter value in Pale Blue Cells		Tan Cells Show Results	
Messages and Warnings			
Click on the blue cell on right to Pick City Name	Chico	Name of City	
ETo of City from Appendix A	51.70	ETo (Inches/year)	
	0	Overhead Landscape Area (ft^2)	
	17668	Drip Landscape Area (ft^2)	
	0	SLA (ft^2)	
Total Landscape Area	17,668		
Results:			
$(\text{ETo}) \times (0.02) \times [(0.45 \times \text{LA}) + (1.0 - 0.45) \times \text{SLA}]$	255,249	Gallons	
	34,122	Cubic Feet	
	341	HCF	
	1	Acre-foot	
	0	Millions of Gallons	
MAWA calculation incorporating Effective Precipitation (Optional)			
<u>Precipitation (Optional)</u>			
ETo of City from Appendix A	52	ETo (Inches/year)	
Total Landscape Area	17,898	LA (ft^2)	
Special Landscape Area	0	SLA (ft^2)	
		Total annual precipitation (Inches/year)	
Enter Effective Precipitation	0.00	Eppt (Inches/25% of total annual precipitation)	
Results:			
$\text{MAWA} = (\text{ETo} - \text{Eppt}) \times (0.02) \times [(0.45 \times \text{LA}) + (1.0 - 0.45) \times \text{SLA}]$		Gallons	
		Cubic Feet	
		HCF	
		Acre-foot	
		Millions of Gallons	

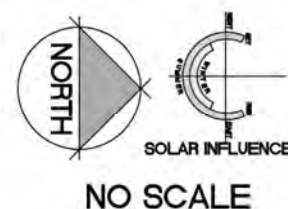
[illegible]

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BFLA Project Number: 2454

BRUCE ROAD RECONSTRUCTION
LANDSCAPE IRRIGATION WATER USE CALCULATIONS- CONTROLLER 'A'

Project Number: 1603B		Drawing Number: L-223	
Scale:		Sheet <u>180</u> of <u>182</u>	
PER PLAN Horizontal	PER PLAN Vertical		



Estimated Total Water Use

Q = 81.43 Condensing vaporization (BTU/hr) (500 Btu/lb) ÷ [(PF × H) (MBtu) × 2.1] Q

Enter values in Plain Blue Cells

Then Cells Show Results

Makeup and Wastewater

Water makeup 6.76 and dirty 0.01



Plant Water Use Type (a) (b) (c) (d) (e) (f) (g) (h) (i) (j) (k) (l) (m) (n) (o) (p) (q) (r) (s) (t) (u) (v) (w) (x) (y) (z) (aa) (ab) (ac) (ad) (ae) (af) (ag) (ah) (ai) (aj) (ak) (al) (am) (an) (ao) (ap) (aq) (ar) (as) (at) (au) (av) (aw) (ax) (ay) (az) (ba) (bb) (bc) (bd) (be) (bf) (bg) (bh) (bi) (bj) (bk) (bl) (bm) (bn) (bo) (bp) (bq) (br) (bs) (bt) (bu) (bv) (bw) (bx) (by) (bz) (ca) (cb) (cc) (cd) (ce) (cf) (cg) (ch) (ci) (cj) (ck) (cl) (cm) (cn) (co) (cp) (cq) (cr) (cs) (ct) (cu) (cv) (cw) (cx) (cy) (cz) (da) (db) (dc) (dd) (de) (df) (dg) (dh) (di) (dj) (dk) (dl) (dm) (dn) (do) (dp) (dq) (dr) (ds) (dt) (du) (dv) (dw) (dx) (dy) (dz) (ea) (eb) (ec) (ed) (ee) (ef) (eg) (eh) (ei) (ej) (ek) (el) (em) (en) (eo) (ep) (eq) (er) (es) (et) (eu) (ev) (ew) (ex) (ey) (ez) (fa) (fb) (fc) (fd) (fe) (ff) (fg) (fh) (fi) (fj) (fk) (fl) (fm) (fn) (fo) (fp) (fq) (fr) (fs) (ft) (fu) (fv) (fw) (fx) (fy) (fz) (ga) (gb) (gc) (gd) (ge) (gf) (gg) (gh) (gi) (gj) (gk) (gl) (gm) (gn) (go) (gp) (gq) (gr) (gs) (gt) (gu) (gv) (gw) (gx) (gy) (gz) (ha) (hb) (hc) (hd) (he) (hf) (hg) (hh) (hi) (hj) (hk) (hl) (hm) (hn) (ho) (hp) (hq) (hr) (hs) (ht) (hu) (hv) (hw) (hx) (hy) (hz) (ia) (ib) (ic) (id) (ie) (if) (ig) (ih) (ii) (ij) (ik) (il) (im) (in) (io) (ip) (iq) (ir) (is) (it) (iu) (iv) (iw) (ix) (iy) (iz) (ja) (jb) (jc) (jd) (je) (jf) (jg) (jh) (ji) (jj) (jk) (jl) (jm) (jn) (jo) (jp) (jq) (jr) (js) (jt) (ju) (jv) (jw) (jx) (jy) (jz) (ka) (kb) (kc) (kd) (ke) (kf) (kg) (kh) (ki) (kj) (kk) (kl) (km) (kn) (ko) (kp) (kq) (kr) (ks) (kt) (ku) (kv) (kw) (kx) (ky) (kz) (la) (lb) (lc) (ld) (le) (lf) (lg) (lh) (li) (lj) (lk) (ll) (lm) (ln) (lo) (lp) (lq) (lr) (ls) (lt) (lu) (lv) (lw) (lx) (ly) (lz) (ma) (mb) (mc) (md) (me) (mf) (mg) (mh) (mi) (mj) (mk) (ml) (mn) (mo) (mp) (mq) (mr) (ms) (mt) (mu) (mv) (mw) (mx) (my) (mz) (na) (nb) (nc) (nd) (ne) (nf) (ng) (nh) (ni) (nj) (nk) (nl) (nm) (nn) (no) (np) (nq) (nr) (ns) (nt) (nu) (nv) (nw) (nx) (ny) (nz) (oa) (ob) (oc) (od) (oe) (of) (og) (oh) (oi) (oj) (ok) (ol) (om) (on) (oo) (op) (oq) (or) (os) (ot) (ou) (ov) (ow) (ox) (oy) (oz) (pa) (pb) (pc) (pd) (pe) (pf) (pg) (ph) (pi) (pj) (pk) (pl) (pm) (pn) (po) (pp) (pq) (pr) (ps) (pt) (pu) (pv) (pw) (px) (py) (pz) (qa) (qb) (qc) (qd) (qe) (qf) (qg) (qh) (qi) (qj) (qk) (ql) (qm) (qn) (qo) (qp) (qq) (qr) (qs) (qt) (qu) (qv) (qw) (qx) (qy) (qz) (ra) (rb) (rc) (rd) (re) (rf) (rg) (rh) (ri) (rj) (rk) (rl) (rm) (rn) (ro) (rp) (rq) (rr) (rs) (rt) (ru) (rv) (rw) (rx) (ry) (rz) (sa) (sb) (sc) (sd) (se) (sf) (sg) (sh) (si) (sj) (sk) (sl) (sm) (sn) (so) (sp) (sq) (sr) (ss) (st) (su) (sv) (sw) (sx) (sy) (sz) (ta) (tb) (tc) (td) (te) (tf) (tg) (th) (ti) (tj) (tk) (tl) (tm) (tn) (to) (tp) (tq) (tr) (ts) (tt) (tu) (tv) (tw) (tx) (ty) (tz) (ua) (ub) (uc) (ud) (ue) (uf) (ug) (uh) (ui) (uj) (uk) (ul) (um) (un) (uo) (up) (uq) (ur) (us) (ut) (uu) (uv) (uw) (ux) (uy) (uz) (va) (vb) (vc) (vd) (ve) (vf) (vg) (vh) (vi) (vj) (vk) (vl) (vm) (vn) (vo) (vp) (vq) (vr) (vs) (vt) (vu) (vv) (vw) (vx) (vy) (vz) (wa) (wb) (wc) (wd) (we) (wf) (wg) (wh) (wi) (wj) (wk) (wl) (wm) (wn) (wo) (wp) (wq) (wr) (ws) (wt) (wu) (wv) (ww) (wx) (wy) (wz) (xa) (xb) (xc) (xd) (xe) (xf) (xg) (xh) (xi) (xj) (xk) (xl) (xm) (xn) (xo) (xp) (xq) (xr) (xs) (xt) (xu) (xv) (xw) (xx) (xy) (xz) (ya) (yb) (yc) (yd) (ye) (yf) (yg) (yh) (yi) (yj) (yk) (yl) (ym) (yn) (yo) (yp) (yq) (yr) (ys) (yt) (yu) (yv) (yw) (yx) (yy) (yz) (za) (zb) (zc) (zd) (ze) (zf) (zg) (zh) (zi) (zj) (zk) (zl) (zm) (zn) (zo) (zp) (zq) (zr) (zs) (zt) (zu) (zv) (zw) (zx) (zy) (zz)
Plant Water Use Type (a) (b) (c) (d) (e) (f) (g) (h) (i) (j) (k) (l) (m) (n) (o) (p) (q) (r) (s) (t) (u) (v) (w) (x) (y) (z) (aa) (ab) (ac) (ad) (ae) (af) (ag) (ah) (ai) (aj) (ak) (al) (am) (an) (ao) (ap) (aq) (ar) (as) (at) (au) (av) (aw) (ax) (ay) (az) (ba) (bb) (bc) (bd) (be) (bf) (bg) (bh) (bi) (bj) (bk) (bl) (bm) (bn) (bo) (bp) (bq) (br) (bs) (bt) (bu) (bv) (bw) (bx) (by) (bz) (ca) (cb) (cc) (cd) (ce) (cf) (cg) (ch) (ci) (cj) (ck) (cl) (cm) (cn) (co) (cp) (cq) (cr) (cs) (ct) (cu) (cv) (cw) (cx) (cy) (cz) (da) (db) (dc) (dd) (de) (df) (dg) (dh) (di) (dj) (dk) (dl) (dm) (dn) (do) (dp) (dq) (dr) (ds) (dt) (du) (dv) (dw) (dx) (dy) (dz) (ea) (eb) (ec) (ed) (ee) (ef) (eg) (eh) (ei) (ej) (ek) (el) (em) (en) (eo) (ep) (eq) (er) (es) (et) (eu) (ev) (ew) (ex) (ey) (ez) (fa) (fb) (fc) (fd) (fe) (ff) (fg) (fh) (fi) (fj) (fk) (fl) (fm) (fn) (fo) (fp) (fq) (fr) (fs) (ft) (fu) (fv) (fw) (fx) (fy) (fz) (ga) (gb) (gc) (gd) (ge) (gf) (gg) (gh) (gi) (gj) (gk) (gl) (gm) (gn) (go) (gp) (gq) (gr) (gs) (gt) (gu) (gv) (gw) (gx) (gy) (gz) (ha) (hb) (hc) (hd) (he) (hf) (hg) (hh) (hi) (hj) (hk) (hl) (hm) (hn) (ho) (hp) (hq) (hr) (hs) (ht) (hu) (hv) (hw) (hx) (hy) (hz) (ia) (ib) (ic) (id) (ie) (if) (ig) (ih) (ii) (ij) (ik) (il) (im) (in) (io) (ip) (iq) (ir) (is) (it) (iu) (iv) (iw) (ix) (iy) (iz) (ja) (jb) (jc) (jd) (je) (jf) (jg) (jh) (ji) (jj) (jk) (jl) (jm) (jn) (jo) (jp) (jq) (jr) (js) (jt) (ju) (jv) (jw) (jx) (jy) (jz) (ka) (kb) (kc) (kd) (ke) (kf) (kg) (kh) (ki) (kj) (kk) (kl) (km) (kn) (ko) (kp) (kq) (kr) (ks) (kt) (ku) (kv) (kw) (kx) (ky) (kz) (la) (lb) (lc) (ld) (le) (lf) (lg) (lh) (li) (lj) (lk) (ll) (lm) (ln) (lo) (lp) (lq) (lr) (ls) (lt) (lu) (lv) (lw) (lx) (ly) (lz) (ma) (mb) (mc) (md) (me) (mf) (mg) (mh) (mi) (mj) (mk) (ml) (mn) (mo) (mp) (mq) (mr) (ms) (mt) (mu) (mv) (mw) (mx) (my) (mz) (na) (nb) (nc) (nd) (ne) (nf) (ng) (nh) (ni) (nj) (nk) (nl) (nm) (nn) (no) (np) (nq) (nr) (ns) (nt) (nu) (nv) (nw) (nx) (ny) (nz) (oa) (ob) (oc) (od) (oe) (of) (og) (oh) (oi) (oj) (ok) (ol) (om) (on) (oo) (op) (oq) (or) (os) (ot) (ou) (ov) (ow) (ox) (oy) (oz) (pa) (pb) (pc) (pd) (pe) (pf) (pg) (ph) (pi) (pj) (pk) (pl) (pm) (pn) (po) (pp) (pq) (pr) (ps) (pt) (pu) (pv) (pw) (px) (py) (pz) (qa) (qb) (qc) (qd) (qe) (qf) (qg) (qh) (qi) (qj) (qk) (ql) (qm) (qn) (qo) (qp) (qq) (qr) (qs) (qt) (qu) (qv) (qw) (qx) (qy) (qz) (ra) (rb) (rc) (rd) (re) (rf) (rg) (rh) (ri) (rj) (rk) (rl) (rm) (rn) (ro) (rp) (rq) (rr) (rs) (rt) (ru) (rv) (rw) (rx) (ry) (rz) (sa) (sb) (sc) (sd) (se) (sf) (sg) (sh) (si) (sj) (sk) (sl) (sm) (sn) (so) (sp) (sq) (sr) (ss) (st) (su) (sv) (sw) (sx) (sy) (sz) (ta) (tb) (tc) (td) (te) (tf) (tg) (th) (ti) (tj) (tk) (tl) (tm) (tn) (to) (tp) (tq) (tr) (ts) (tt) (tu) (tv) (tw) (tx) (ty) (tz) (ua) (

IRRIGATION SCHEDULE NOTE:
IRRIGATION SCHEDULES ARE BASED UPON THE BEST SEASONAL DATA AVAILABLE. THE CONTRACTOR IS RESPONSIBLE FOR THE ESTABLISHMENT OF PLANT MATERIAL AND MAY NEED TO MAKE SOME ADJUSTMENTS IN ORDER TO PROVIDE ADEQUATE IRRIGATION FOR OPTIMAL PLANT GROWTH. IT SHOULD ALSO BE NOTED THAT THE IRRIGATION CONTROLLER IS CONNECTED TO A SENSOR THAT PROVIDES REALTIME DATA THAT THE CONTROLLER UTILIZES TO ADJUST THE BASELINE SCHEDULE TO PROVIDE OPTIMAL IRRIGATION. ONCE PLANT MATERIAL HAS BEEN ESTABLISHED, ALL IRRIGATION SHALL OCCUR BETWEEN THE HOURS OF 8PM AND 10 AM.



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BFLA Project Number: 2454

BRUCE ROAD RECONSTRUCTION
LANDSCAPE IRRIGATION WATER USE CALCULATIONS- CONTROLLER 'B'

Project Number: 16038		Drawing Number: L-224	
Scale:		Sheet 181 of 182	
PER PLAN Horizontal	PER PLAN Vertical		

HUMBOLDT ROAD

Designed: JBB	Approved:	Revision	Date	By
Drawn By: JBB/ TDB				
Checked: JBB		Date: 12-6-2023		