PLANS FOR THE CONSTRUCTION OF:

CHICO UNIFIED SCHOOL DISTRICT D.R.O.P.S.

CHICO, CALIFORNIA

PREPARED FOR:

HAMILL AND ASSOCIATES
1282 FILBERT AVE
CHICO, CA 95926
(530) 342-6620
WWW.THESTREAMTEAM.ORG

PREPARED BY:

MELTON DESIGN GROUP
309 WALL STREET
CHICO, CA 95928
(530) 899-1616

GENERAL CONSTRUCTION NOTE:

CONSTRUCTION UNDER THIS CONTRACT SHALL COMPLY WITH THE 2013 CALIFORNIA BUILDING CODE (CBC), CALIFORNIA MECHANICAL CODE (CMC), CALIFORNIA PUBLIC CODE (CPC), CALIFORNIA ELECTRICAL CODE (CEC), AND THE 2005 CALIFORNIA ENERGY STANDARDS AS AMENDED BY THE STATE OF CALIFORNIA AND THE LOCAL JURISDICTION.

PREPARED BY OR UNDER THE SUPERVISION OF:

DATE 10/20/2016

GREG MELTON
RLA No. 4217

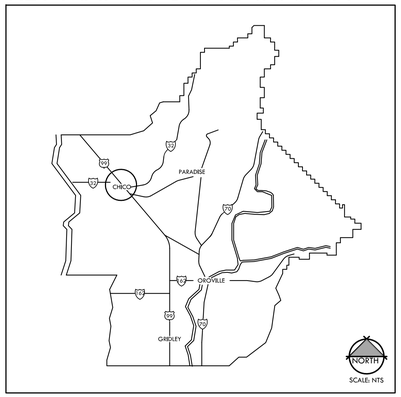
ACCEPTED BY:

DATE

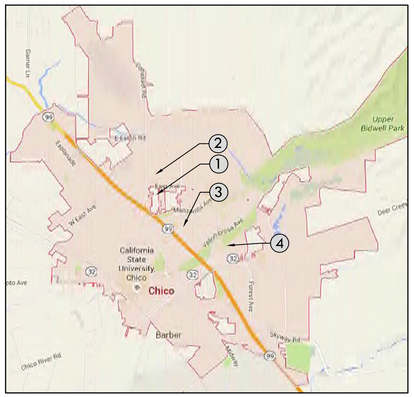
CHICO UNIFIED SCHOOL DISTRICT

INDEX OF SHEETS

KEY MAP OF BUTTE COUNTY



KEY MAP OF CHICO SCHOOLS



1. BIDWELL JR HIGH
2. MCMANUS ELEMENTARY
3. NEAL DOW ELEMENTARY
4. PARKVIEW ELEMENTARY

MELTON DESIGN GROUP
309 WALL STREET
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www.meltondg.com

LICENSE

REGISTERED LANDSCAPE ARCHITECT
GREG MELTON #4217
EXP. 11-17
STATE OF CALIFORNIA

CONSULTANT

CLIENT

CHICO UNIFIED SCHOOL DISTRICT
1163 E. 7TH STREET
CHICO, CA 95928

PROJECT

EAST CUSD DROPS

SHEET TITLE

TITLE SHEET

DATES

NO.	DESCRIPTION	DATE
1.	BID DOCUMENTS	10/20/2016
2.		
3.		
4.		
5.		
6.		
7.		
8.		

PLOT DATE: 11/4/2016

PROJECT NUMBERS

MELTON DESIGN GROUP: 2265
CONSULTANT PROJECT #:

SHEET NUMBER

--

SHEET 1 OF 14

IRRIGATION NOTES

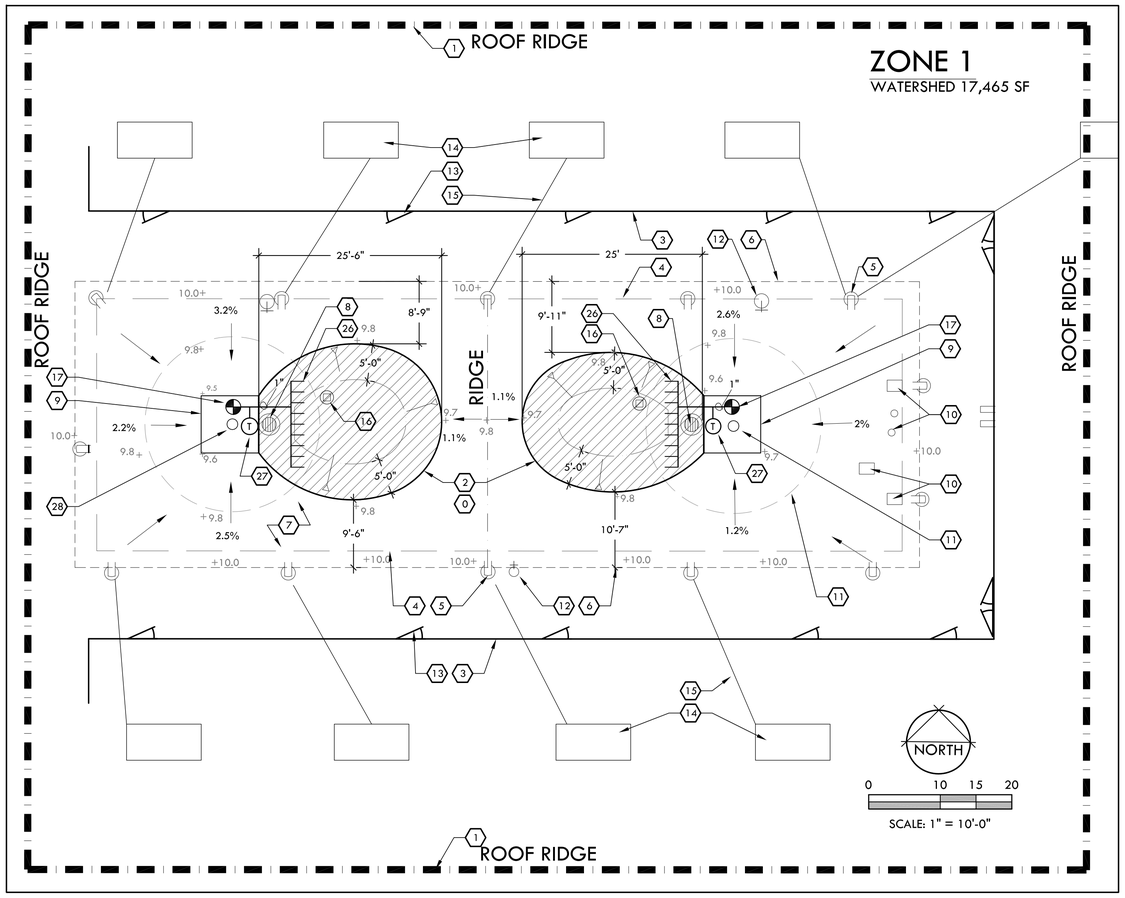
1. THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH. ADJUST CONTROLLER AS REQUIRED TO ACHIEVE THIS GOAL AS REQUIRED BY THE TIME OF YEAR.
2. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO PROGRAM THE IRRIGATION CONTROLLERS TO 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.
3. 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 WHERE THEY NEED TO BE SLEEVED. PLACE PIPING TO PREVENT CONFLICT WITH SUBSEQUENT PLANTING. REFER TO PLANTING PLAN.
4. CONTRACTOR TO PROVIDE COMPLETE 'AS-BUILT' DRAWINGS TO CLIENT AT COMPLETION OF PROJECT.
5. IRRIGATION MAIN LINES TO A DEPTH OF 24" AND DRIP LINE LATERALS TO A DEPTH OF 12" AND DRIP TO A DEPTH OF 4". TRENCH ALL MAIN OR LATERAL LINES TO A DEPTH OF 24" WHERE CROSSING BENEATH PAVEMENT AND PLACE WITHIN A SCHEDULE 40 SLEEVE, SIZE PER PLAN. SLEEVE ELECTRICAL WIRES SEPARATELY IN PVC SCHEDULE 40 CONDUIT WHERE CROSSING BENEATH PAVEMENT.
6. ALL REMOTE CONTROL VALVES SHALL BE INSTALLED IN LOCKABLE VALVE BOXES.
7. CONTRACTOR IS RESPONSIBLE FOR IRRIGATION TO EACH PLANT. ADJUST HEADS, OR ADD DRIP LINE AS REQUIRED AT NO ADDITIONAL COST TO THE CLIENT.
8. SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

IRRIGATION APPROACH

1. IN WEST PLANTER REMOVE AND REPLACE EXISTING VALVE AND DRIP SYSTEM WITH NEW HUNTER DRIP ZONE KIT AND BATTERY OPERATED CONTROLLER. INSTALL DRIP IRRIGATION TO NEW LANDSCAPE AND EXISTING TREES PER PLAN.
2. IN EAST PLANTER, REMOVE AND REPLACE EXISTING VALVE AND DRIP SYSTEM WITH NEW HUNTER DRIP ZONE KIT AND BATTERY OPERATED CONTROLLER. INSTALL DRIP IRRIGATION TO NEW LANDSCAPE AND EXISTING TREES PER PLAN.

GRADING NOTES

1. VERIFY EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO THE START OF WORK. CALL U.S.A. AT (800) 642-2444 AND VERIFY BY POTHOLE IF NECESSARY.
2. BACKFILL DRAINLINE TRENCHES WITH CLEAN SOIL FREE OF ROCK AND DEBRIS ½" OR LARGER. COMPACT BACKFILL TO ELIMINATE TRENCH SETTLING TO 90% UNDER ALL CONCRETE AND 80% IN LANDSCAPE AREA.
3. CONTACT LANDSCAPE ARCHITECT, PRIOR TO BACKFILLING, IN THE EVENT THAT GRADE CONDITIONS ARE NOT AS SHOWN ON PLANS OR IN THE EVENT THAT RIM ELEVATIONS OF BASINS APPEAR TOO LOW OR TOO HIGH.
4. EXCEPT FOR TRENCHES, CLASS II AGG BASE TO MAKE GRADE IN ALL "FILL" AREAS UNDER CONCRETE AND ASPHALT.
5. ALL SOIL IN PLANTING AREAS TO BE AMENDED PER SPECIFICATIONS.
6. FINAL GRADE AT EDGE OF ASPHALT TO BE 2½" BELOW CONCRETE AND TOP OF WALL TO ALLOW FOR SURFACE MATERIAL.



GRADING LEGEND

EXISTING GRADES		PROPOSED GRADES	
+10.0	EXISTING SPOT ELEVATIONS	%	DIRECTION AND SLOPE OF PROPOSED SLOPE AND DRAINAGE
%	DIRECTION AND SLOPE OF EXISTING DRAINAGE		SLOPED BANK. SEE DETAILS FOR SLOPE
		+HP	HIGH POINT
		+LP	LOW POINT

SOIL PERMEABILITY

PERCOLATION TEST AT NEAREST SOIL PROFILE	INITIAL PERCOLATION	PERCOLATION AFTER SATURATION
	0.65"/60 MIN.	0.5"/60 MIN.

L.I.D. AREA SUMMARY

			OWP SIZING TOOL RESULTS**		DESIGN RESULTS					
	CONTRIBUTING IMPERVIOUS SURFACE		MINIMUM LID REQUIREMENTS		DESIGN LEVEL LID		RETAINED STORM WATER	NEW IMPERVIOUS SURFACE		VOLUME
LID PROJECT	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.	%	ACRES	SQ. FT.	CU. FT.
RAIN GARDEN	.0401	17,465	0.019	842	0.020	850	101.0%	0.381	16,615	2,550

1. THE FRONT ENTRY AREA HAS 17,465 SF OF WATERSHED, WHICH REQUIRES 842 SF OF L.I.D

** Office of Water Programs (OWP) Phase II LID Sizing Tool: http://www.owp.csus.edu/LIDTool/Start.aspx

CONSTRUCTION LEGEND

	SYMBOL	DESCRIPTION	MODEL/REMARKS	DETAIL
	0	DEMO ASPHALT AREA AND REMOVE OFF SITE	--	--
	1	WATERSHED AREA	IMPERMEABLE	--
	2	PROJECT AREA (L.I.D.)	LOW IMPACT DEVELOPMENT AREA. REMOVE EXISTING ASPHALT, AND DISPOSE OF OFF SITE. EXCAVATE NATIVE SOIL AND STOCKPILE ON SITE FOR POTENTIAL FUTURE USE. CREATE RAIN GARDEN PER DETAIL.	2/L-10.0 4/L-10.1 7/L-10.1
	3	EXISTING BUILDING WALL	RETAIN AND PROTECT	--
	4	EXISTING ROOFLINE	RETAIN AND PROTECT	--
	5	EXISTING DOWNSPOUT ONTO ASPHALT	RETAIN AND PROTECT	--
	6	EXISTING CONCRETE SIDEWALK	RETAIN AND PROTECT	--
	7	EXISTING ASPHALT SURFACE	RETAIN AND PROTECT	--
	8	EXISTING STORM DRAIN	IN LID AREAS. SAND, CLEAN, AND PRIMER DRAIN INLET GRATE, BEFORE PAINTING W/ BENJAMIN MOORE COLOR: ROCKY MOUNTAIN SKY	--
	9	EXISTING RETAINING WALL	RETAIN AND PROTECT	--
	10	EXISTING UTILITIES	IRRIGATION, WATER MAIN, ELECTRICAL BOXES ETC. RETAIN AND PROTECT	--
	11	EXISTING TREE TO BE REMOVED	REMOVE AND DISPOSE OF OFF SITE	--
	12	EXISTING HOSE BIB	RETAIN AND PROTECT	--
	13	EXISTING CLASSROOM DOORS	--	--
	14	EXISTING AIR CONDITIONING UNITS	--	--
	15	EXISTING AIR CONDITIONING UNITS DRAIN LINE	--	--
	*16	WATER SAMPLE TUBE	PLACE AT LOWEST AREA OF LID AREA	2/L-10.0
	17	NEW IRRIGATION CONTROL VALVE (REMOVE AND REPLACE EXISTING)	HUNTER ICZ-101 AND BATTERY OPERATED NODE CONTROLLER NODE-400. SEE IRRIGATION APPROACH, THIS PAGE.	5/L-10.2
	25	LATERAL PIPE	NON-PRESSURE, PVC SCH. 40, SIZE PER PLAN; INSTALL AS PER PLAN AND DETAILS.	6/L-10.1 1/L-10.2
	26	DRIP IRRIGATION SYSTEM	INLINE EMITTERS AND BARBED DRIP EMITTERS. SEE DETAIL FOR MORE INFORMATION	11/L-10.2
	27	TREE IRRIGATION	IN-LINE DRIP EMITTER RINGS FOR NEW OR EXISTING TREES. SEE DETAIL	8/L-10.2
	*28	EXISTING TREE TO BE REMOVED	REMOVE AND DISPOSE OF OFF SITE	--

*ADD ALTERNATE BID ITEM NOTES

1. ITEMS SHOWN WITH AN ASTERISK TO BE BID AS AN ADD ALTERNATE.
2. ALTERNATIVES QUOTED ON CONTRACT FORMS WILL BE REVIEWED AND ACCEPTED OR REJECTED AT OWNER'S OPTION. ACCEPTED ALTERNATIVES WILL BE IDENTIFIED IN THE OWNER-CONTRACTOR AGREEMENT.
3. THE OWNER HAS THE OPTION OF ACCEPTING NONE, OR ANY NUMBER AND COMBINATION OF BID ALTERNATIVES.
4. COORDINATE RELATED WORK AND MODIFY SURROUNDING WORK TO INTEGRATE THE WORK OF EACH ALTERNATIVE.

CONSTRUCTION NOTES

5. 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. CALL ALL APPLICABLE AGENCIES AND USA, (800) 642-2444. THE LANDSCAPE ARCHITECT CANNOT BE RESPONSIBLE FOR THE COMPLETENESS OR ACCURACY OF THIS INFORMATION AND PROVISION OF TENTATIVE UTILITY LOCATION DOES NOT IN ANY WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO CONTACT USA AND APPLICABLE AGENCIES FOR VERIFICATION.
6. INSTALL ALL ELEMENTS PER MANUFACTURERS' SPECIFICATIONS.
7. PROVIDE A COMPLETE SET OF LITERATURE CUT SHEETS FOR LANDSCAPE ARCHITECT'S APPROVAL.
8. CONTRACTOR IS RESPONSIBLE TO COORDINATE HIS WORK WITH THE WORK OF OTHERS.
9. CONSTRUCTION SHALL CONFORM TO ALL UNIFORM BUILDING CODE, 2013 EDITION, AND SPECIFICATIONS.
10. CONTRACTOR SHALL OBSERVE ALL SAFETY REGULATIONS PERTAINING TO THIS PROJECT.
11. ANY CHANGES SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
12. STOCKPILE EXCESS NATIVE SOIL FOR USE IN OTHER PLANTERS OR TROUGHS AS NEEDED FOR PROJECT. EXCESS SOIL AT END OF PROJECT MAY BE DROPPED OFF AT THE CUSD CORPORATION YARD, 2455 CARMICHAEL DR, IN CHICO.
13. PROVIDE POSITIVE DRAINAGE AWAY FROM WALLS AND STRUCTURES. DRAINAGE PATHS SHALL DIVERT RUNOFF AROUND STRUCTURES. MINIMUM 2% SLOPE AWAY FROM BUILDINGS. CONTACT OWNER IF UNABLE TO PROVIDE 2% POSITIVE DRAINAGE AND OR IF THERE ARE LOW SPOTS WITHOUT POSITIVE DRAINAGE PRIOR TO IMPROVEMENTS.
14. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR ANY DAMAGES MADE TO EXISTING UTILITIES AND HARDSCAPE AT NO ADDITIONAL COST TO THE OWNER.

MDG
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CONSULTANT

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CHICO UNIFIED SCHOOL DISTRICT
1163 E. 7TH STREET
CHICO, CA 95928

PROJECT

DROPS: BIDWELL JR. HIGH SCHOOL

SHEET TITLE

CONSTRUCTION PLAN

DATES

NO.	DESCRIPTION	DATE
1.	BID DOCUMENTS	10/20/2016
2.		
3.		
4.		
5.		
6.		
7.		
8.		

PLOT DATE: 11/4/2016

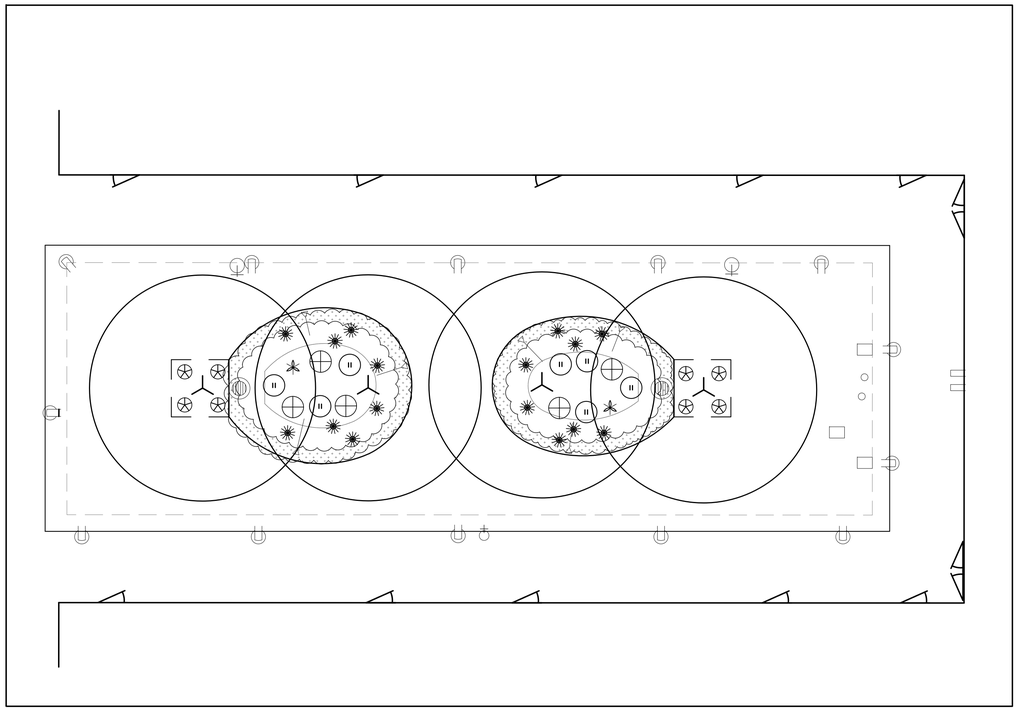
PROJECT NUMBERS

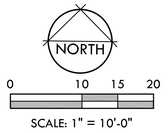
MELTON DESIGN GROUP: 2265
CONSULTANT PROJECT #:

SHEET NUMBER

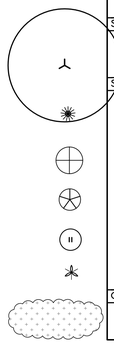
L-1.0

SHEET 2 OF 14





PLANTING LEGEND



SYMBOL	LATIN NAME/ COMMON NAME	CONTAINER SIZE	QTY	REMARKS	WATER USE	WATER USE
SHRUBS						
T-1	ACER X FREEMANII 'JEFFERSRED' AUTUMN BLAZE MAPLE	15 GAL	4	STANDARD	M	1/L-10.3
SHRUBS						
S-1	TYPHACEAE MINIMA DWARF CATTAIL	1 GAL	16		L	2/L-10.3
S-2	ACHILLEA MILLEFOLIUM YARROW	1 GAL	5		L	2/L-10.3
S-3	JUNCUS PATENS BLUE RUSH	1 GAL	8		M	2/L-10.3
S-4	ASTER CHILENSIS CALIFORNIA ASTER	1 GAL	7		L	2/L-10.3
S-5	ASCLEPIAS SPECIOSA SHOWY MILKWEED	1 GAL	2		M	2/L-10.3
GROUNDCOVER						
G-1	CAREX PANSA DUNE SEDGE	PLUGS	PER AREA	12" O.C.	M	3/L-10.3

NOTE: PLANT DOUBLE ROW OF PLUGS IN TRIANGLE SPACING 12" O.C. AROUND PERIMETER OF PLANTING AREA AND AT 6" OFF OF EDGE.

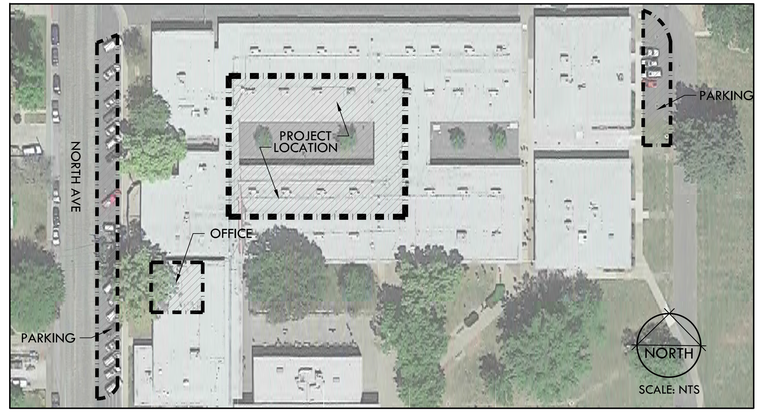
PLANTING NOTES

1. VERIFY EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
2. CONTRACTOR TO CONFIRM EXACT NUMBER BEFORE ORDERING OR INSTALLING ANY PLANT MATERIAL.
3. PLANT MATERIALS SHALL BE BID ON THE BASIS OF SPECIES AND CONTAINER SIZE, NOT ON CONTAINER SIZE ALONE.
4. SEE GRADING PLAN AND SPECIFICATIONS FOR SOIL AMENDMENT REQUIREMENTS.
5. CONTACT LANDSCAPE ARCHITECT IN THE EVENT A PLANT SPECIES OR SIZE IS UNAVAILABLE. ALL SUBSTITUTIONS MUST BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO ORDERING.

TOP DRESSING NOTES:

LID/RAIN GARDEN PLANTERS TO BE FINISHED WITH 2" LAYER OF 0 TO $\frac{1}{4}$" BASALT.
RAISED PLANTERS TO BE FINISHED WITH 3" LAYER OF WALK ON BARK MULCH.

SITE LOCATION MAP



BID ITEM NOTES

1. SOME PLANT QUANTITIES ARE BID AS ADD ALTERNATES. SEE BID FORM FOR MORE INFORMATION.
2. ALTERNATIVES QUOTED ON CONTRACT FORMS WILL BE REVIEWED AND ACCEPTED OR REJECTED AT OWNER'S OPTION. ACCEPTED ALTERNATIVES WILL BE IDENTIFIED IN THE OWNER-CONTRACTOR AGREEMENT.
3. THE OWNER HAS THE OPTION OF ACCEPTING NONE, OR ANY NUMBER AND COMBINATION OF BID ALTERNATIVES.
4. COORDINATE RELATED WORK AND MODIFY SURROUNDING WORK TO INTEGRATE THE WORK OF EACH ALTERNATIVE.
5. A PERCENTAGE OF VEGETATION AND IRRIGATION WILL BE SHOWN ON BID FORMS AS AN ADD ALTERNATE. SEE BID FORM SPEC SHEETS.

UNDERGROUND SERVICE ALERT
of Northern California
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

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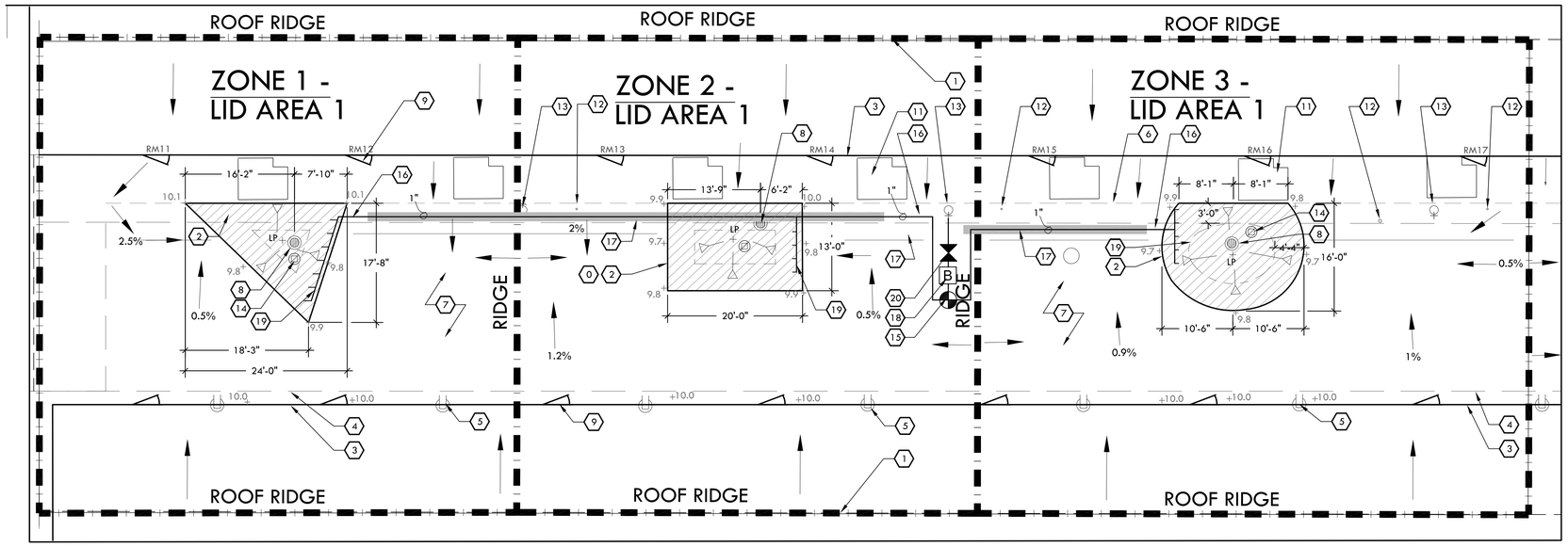
SHEET 3 OF 14



GRADING LEGEND

EXISTING GRADES		PROPOSED GRADES	
+10.0	EXISTING SPOT ELEVATIONS	%	DIRECTION AND SLOPE OF PROPOSED SLOPE AND DRAINAGE
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		+HP	HIGH POINT
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USA BLUE BOOK — DIAL BEFORE YOU DIG

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SOIL PERMEABILITY

PERCOLATION TEST AT NEAREST SOIL PROFILE	INITIAL PERCOLATION	PERCOLATION AFTER SATURATION
	0.70"/60 MIN.	0.35"/60 MIN.

L.I.D. AREA SUMMARY

			OWP SIZING TOOL RESULTS**		DESIGN RESULTS					
	CONTRIBUTING IMPERVIOUS SURFACE		MINIMUM LID REQUIREMENTS		DESIGN LEVEL LID		RETAINED STORM WATER	NEW IMPERVIOUS SURFACE		VOLUME
LID PROJECT	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.	%	ACRES	SQ. FT.	CU. FT.
ZONE 1 RAIN GARDEN	.115	4,998	.006	241	.005	212	88.0	.110	4,786	636
ZONE 2 RAIN GARDEN	.110	4,812	.005	232	.006	260	112.1	.104	4,552	780
ZONE 3 RAIN GARDEN	.132	5,765	.006	278	.007	284	102.2	.126	5,481	852
TOTALS	.358	15,575	.017	751	.017	756	100.7	.340	14,819	2,268

1. THERE IS 15,575 SF OF WATERSHED, WHICH REQUIRES A MINIMUM OF 751 SF OF L.I.D.

** Office of Water Programs (OWP) Phase II LID Sizing Tool: http://www.owp.csus.edu/LIDTool/Start.aspx

IRRIGATION APPROACH

INSTALL IRRIGATION SYSTEM IN CENTER LID AREA. NEW HUNTER DRIP ZONE KIT WITH BATTERY OPERATED CONTROLLER. CONNECT TO MAINLINE AT EXISTING HOSE BIB.

GRADING AND DRAINAGE

1. BASE LINE ELEVATION SET TO EDGE OF CONCRETE WALK NEAR LID PROJECT AREA. POSITIVE DRAINAGE HAS BEEN CONFIRMED FROM CONCRETE WALK TO DRAIN INLET, AND SLOPES HAVE BEEN SHOWN ON PLAN
2. ADD 3" OF BASALT CHIP OVER LID AREA AND SWALE

GRADING NOTES

1. VERIFY EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO THE START OF WORK. CALL U.S.A. AT (800) 642-2444 AND VERIFY BY POTHOLE IF NECESSARY.
2. BACKFILL DRAINLINE TRENCHES WITH CLEAN SOIL FREE OF ROCK AND DEBRIS ½" OR LARGER. COMPACT BACKFILL TO ELIMINATE TRENCH SETTLING TO 90% UNDER ALL CONCRETE AND 80% IN LANDSCAPE AREA.
3. CONTACT LANDSCAPE ARCHITECT, PRIOR TO BACKFILLING, IN THE EVENT THAT GRADE CONDITIONS ARE NOT AS SHOWN ON PLANS OR IN THE EVENT THAT RIM ELEVATIONS OF BASINS APPEAR TOO LOW OR TOO HIGH.
4. EXCEPT FOR TRENCHES, CLASS II AGG BASE TO MAKE GRADE IN ALL "FILL" AREAS UNDER CONCRETE OR ASPHALT.
5. ALL SOIL IN PLANTING TO BE AMENDED PER SPECIFICATIONS.
6. FINAL GRADE AT EDGE OF ASPHALT TO BE 2½" BELOW CONCRETE AND TOP OF WALL TO ALLOW FOR SURFACE MATERIAL.

NORTH
0 10 20
SCALE: 1" = 10'-0"

CONSTRUCTION LEGEND

SYMBOL	DESCRIPTION	MODEL/REMARKS	DETAIL
0	ASPHALT DEMOLITION AREAS	REMOVE ASPHALT WHERE SHOWN TO CREATE LID AREA IN WING LID AREA 2. DISPOSE OF OFF SITE.	--
1	WATERSHED AREA	RETAIN AND PROTECT.	--
2	PROJECT AREA (L.I.D.)	LOW IMPACT DEVELOPMENT (LID) AREA. SAW CUT EDGE OF EXISTING ASPHALT AND REMOVE OFF SITE. EXCAVATE NATIVE SOIL AS PER DETAIL AND STOCK-PILE ON SITE FOR POTENTIAL FUTURE USE. REMOVE EXCESS UPON PROJECT COMPLETION	4, 7 /L-10.1
3	EXISTING BUILDING WALL	RETAIN AND PROTECT	--
4	EXISTING ROOFLINE	RETAIN AND PROTECT	--
5	EXISTING DOWNSPOUT	RETAIN AND PROTECT	--
6	EXISTING CONCRETE SIDEWALK W/ 4" CURB	RETAIN AND PROTECT	--
7	EXISTING ASPHALT SURFACE	RETAIN AND PROTECT, BUT CUT AS NEEDED FOR IRRIGATION	--
8	EXISTING STORM DRAIN INLET	IN LID AREAS. SAND, CLEAN, AND PRIMER DRAIN INLET GRATE, BEFORE PAINTING W/ BENJAMIN MOORE COLOR: ROCKY MOUNTAIN SKY	--
9	EXISTING DOORS	--	--
10	EXISTING UTILITIES	IRRIGATION, WATER MAIN, ELECTRICAL BOXES ETC. RETAIN AND PROTECT	--
11	AIR CONDITIONING UNIT	--	--
12	AIR CONDITIONING CONDENSATION DRAIN LINE	DRAINS TO SURFACE. RETAIN AND PROTECT	--
13	EXISTING HOSE BIB	RETAIN AND PROTECT	--
*14	WATER SAMPLE TUBE	PLACE AT THE LOWEST POINT OF LID AREA	2/L-10.0
15	NEW REMOTE CONTROL VALVE	HUNTER ICZ-101 WITH BATTER OPERATED NODE CONTROLLER NODE-400. SEE IRRIGATION APPROACH, THIS PAGE.	5/L-10.2
16	LATERAL PIPE	NON-PRESSURE, PVC SCH. 40. INSTALL PER PLAN AND DETAILS. SIZE PER CHART	1/L-10.2 6/L-10.1
17	IRRIGATION SLEEVING 3"	SCHEDULE 40, INSTALL MAIN LINE AND LATERALS IN SLEEVE AS SHOWN AND AS NEEDED TO ACCOMMODATE PIPES CROSSING BENEATH PAVEMENT, WALKWAYS, ETC. PIPES SHALL BE LARGE ENOUGH TO ALLOW 25% VOID SPACE AFTER ALL PIPES ARE PLACED. MINIMUM SLEEVE SIZE SHALL BE 3". COVER WITH ASPHALT PATCH	6/L-10.1
B 18	RP BACKFLOW DEVICE WILKINS 975XL	¾" POTABLE WATER RP BACKFLOW DEVICE TO DRINKING FOUNTAINS. INSTALL PER PLANS, DETAILS AND SPECIFICATIONS.	7/L-10.0
19	DRIP IRRIGATION SYSTEM	INLINE EMITTERS AND BARBED DRIP EMITTERS. SEE DETAIL FOR MORE INFORMATION	11/L-10.2
20	ISOLATION VALVE	--	4/L-10.2

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(530) 899-1616
www.meltondg.com

LICENSE

REGISTERED LANDSCAPE ARCHITECT — GREG W. ELTON #4217 — EXP. 11-17 — STATE OF CALIFORNIA

CONSULTANT

CLIENT

CHICO UNIFIED SCHOOL DISTRICT
1163 E. 7TH STREET
CHICO, CA 95928

PROJECT

DROPS: MCMANUS ELEMENTARY SCHOOL

SHEET TITLE

CONSTRUCTION PLAN

DATES

NO.	DESCRIPTION	DATE
1.	BID DOCUMENTS	10/20/2016
2.		
3.		
4.		
5.		
6.		
7.		
8.		

PLOT DATE: 11/4/2016

PROJECT NUMBERS

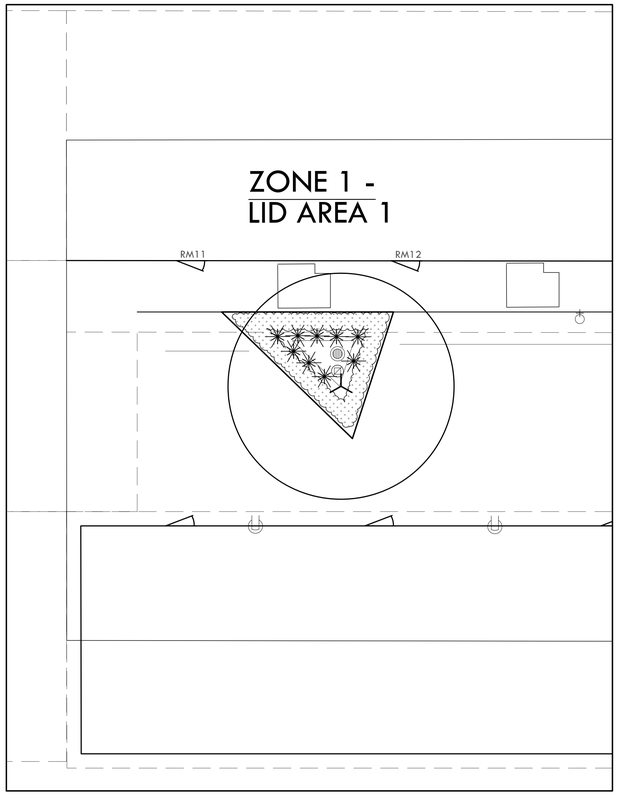
MELTON DESIGN GROUP: 2265
CONSULTANT PROJECT #:

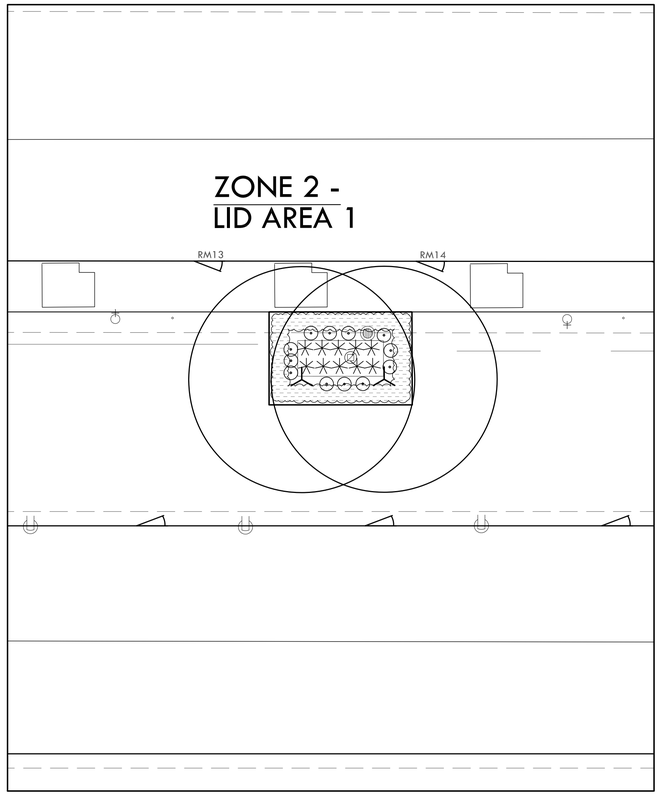
SHEET NUMBER

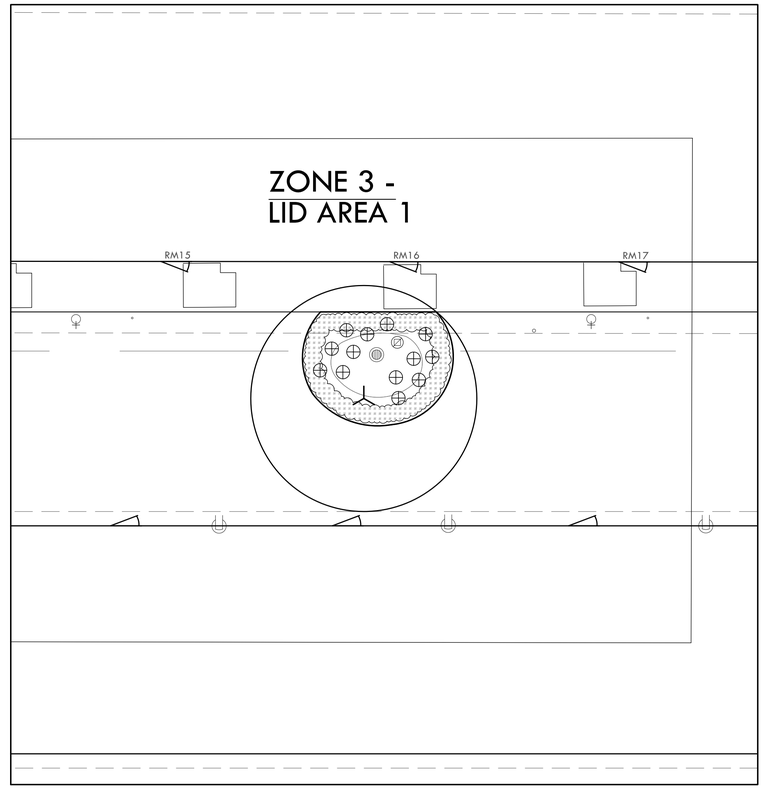
L-2.0

SHEET 4 OF 14

Plot Date: November 04, 2016 - 2:36 pm File Name: G:\MDG\2200-2299\2265 CUSD DROPS\2265 CAD\2265 CDs\2265 CD McManus\2265 McManus Const Plan.dwg







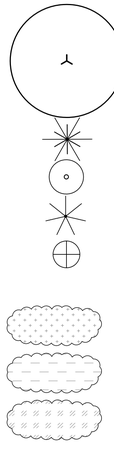
PLANTING NOTES

1. VERIFY EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
2. CONTRACTOR TO CONFIRM EXACT NUMBER BEFORE ORDERING OR INSTALLING ANY PLANT MATERIAL.
3. PLANT MATERIALS SHALL BE BID ON THE BASIS OF SPECIES AND CONTAINER SIZE, NOT ON CONTAINER SIZE ALONE.
4. SEE GRADING PLAN AND SPECIFICATIONS FOR SOIL AMENDMENT REQUIREMENTS.
5. CONTACT LANDSCAPE ARCHITECT IN THE EVENT A PLANT SPECIES OR SIZE IS UNAVAILABLE. ALL SUBSTITUTIONS MUST BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO ORDERING.
6. FILL AREA ADJACENT TO EXISTING TURF AND NEW MOW CURB WITH TOPSOIL.

BID ITEM NOTES

1. SOME PLANT QUANTITIES ARE BID AS ADD ALTERNATES. SEE BID FORM FOR MORE INFORMATION.
2. ALTERNATIVES QUOTED ON CONTRACT FORMS WILL BE REVIEWED AND ACCEPTED OR REJECTED AT OWNER'S OPTION. ACCEPTED ALTERNATIVES WILL BE IDENTIFIED IN THE OWNER-CONTRACTOR AGREEMENT.
3. THE OWNER HAS THE OPTION OF ACCEPTING NONE, OR ANY NUMBER AND COMBINATION OF BID ALTERNATIVES.
4. COORDINATE RELATED WORK AND MODIFY SURROUNDING WORK TO INTEGRATE THE WORK OF EACH ALTERNATIVE.
5. A PERCENTAGE OF VEGETATION AND IRRIGATION WILL BE SHOWN ON BID FORMS AS AN ADD ALTERNATE. SEE BID FORM SPEC SHEETS.

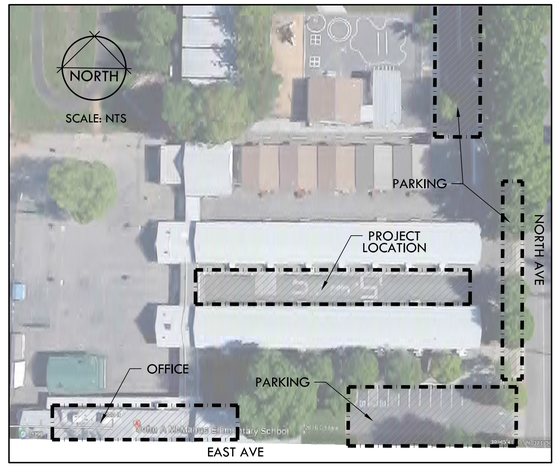
PLANTING LEGEND



SYMBOL	LATIN NAME/ COMMON NAME	CONTAINER SIZE	QTY	REMARKS	WATER USE	DETAIL
TREES						
T-1	ACER X FREEMANII 'JEFFERSRED' AUTUMN BLAZE MAPLE	15 GAL	4	STANDARD	M	1/L-10.3
SHRUBS						
S-1	MUHLENBERGIA RIGENS DEER GRASS	1 GAL	9		L	2/L-10.3
S-2	CHONDROPETALUM TECTORUM SMALL CAPE RUSH	1 GAL	12		L	2/L-10.3
S-3	CALAMAGROSTIS X ACUTIFLORA KARL FOERSTER REED GRASS	1 GAL	10		L	2/L-10.3
S-4	ACHILLEA MILLEFOLIUM YARROW	1 GAL	13		M	2/L-10.3
GROUNDCOVER						
G-1	CAREX PANSA DUNE SEDGE	PLUGS	PER AREA	12" O.C.	M	3/L-10.3
G-2	CAREX DIVULSA BERKELEY SEDGE	PLUGS	PER AREA	12" O.C.	L	3/L-10.3
G-3	FRAGARIA CHILOENSIS BEACH STRAWBERRY	PLUGS	PER AREA	12" O.C.	M	3/L-10.3

NOTE: PLANT DOUBLE ROW OF PLUGS IN TRIANGLE SPACING 12" O.C. AROUND PERIMETER OF PLANTING AREA AND AT 6" OFF OF EDGE.

SITE LOCATION MAP



SCALE: 1" = 10'-0"

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CONSULTANT

CLIENT

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CHICO, CA 95928

PROJECT

DROPS: MCMANUS ELEMENTARY SCHOOL

SHEET TITLE

PLANTING PLAN

DATES

NO.	DESCRIPTION	DATE
1.	BID DOCUMENTS	10/20/2016
2.		
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8.		

PLOT DATE: 11/4/2016

PROJECT NUMBERS

MELTON DESIGN GROUP: 2265
CONSULTANT PROJECT #:

SHEET NUMBER

L-2.1

SHEET 5 OF 14

Plot Date: November 04, 2016 - 2:35 pm File Name: G:\MDG(2200-2299)\2265 CUSD DROPS\2265 CAD\2265 CDs\2265 CD McManus\2265 McManus Plant.dwg

GRADING LEGEND

EXISTING GRADES		PROPOSED GRADES	
+10.0	EXISTING SPOT ELEVATIONS	%	DIRECTION AND SLOPE OF PROPOSED SLOPE AND DRAINAGE
%	DIRECTION AND SLOPE OF EXISTING DRAINAGE		SLOPE BANK. SEE DETAILS FOR SLOPE
		+HP	HIGH POINT
		+LP	LOW POINT

IRRIGATION APPROACH

CONNECT NEW VALVE TO EXISTING HOSE BIB AS SHOWN ON PLAN. RUN TRENCH FOR LATERAL IN TURF AREA ALONG EDGE OF CONCRETE TO PROJECT AREAS. RUN DRIP IRRIGATION. CAP ALL TURF HEADS WITHIN PROJECT LID AREAS. ADJUST HEADS IN REMAINING TURF AREA TO ONLY IRRIGATE TURF.

SOIL PERMEABILITY

	INITIAL PERCOLATION	PERCOLATION AFTER SATURATION
PERCOLATION TEST AT NEAREST SOIL PROFILE	BACK - 0.70"/60 MIN. FRONT - 0.82"/60 MIN.	BACK - 0.55"/60 MIN. FRONT - 0.60"/60 MIN.

GRADING AND DRAINAGE

1. BASE LINE ELEVATION SET TO EDGE OF CONCRETE WALK NEAR LID PROJECT AREA. POSITIVE DRAINAGE HAS BEEN CONFIRMED FROM CONCRETE WALK TO DRAIN INLET, AND SLOPES HAVE BEEN SHOWN ON PLAN
2. ADD 3" OF BASALT CHIP OVER PLAYGROUND LID PROJECT AREA
3. ADD 3" OF BARK MULCH IN ENTRY LID AREA

GRADING NOTES

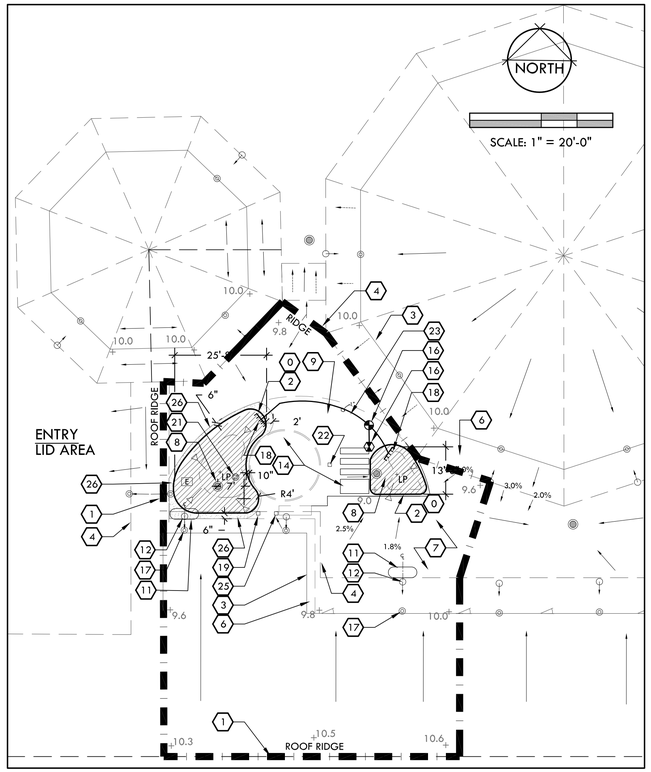
1. VERIFY EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO THE START OF WORK. CALL U.S.A. AT (800) 642-2444 AND VERIFY BY POTHOLE IF NECESSARY.
2. BACKFILL DRAINLINE TRENCHES WITH CLEAN SOIL FREE OF ROCK AND DEBRIS ½" OR LARGER. COMPACT BACKFILL TO ELIMINATE TRENCH SETTLING TO 90% UNDER ALL CONCRETE AND 80% IN LANDSCAPE AREA.
3. CONTACT LANDSCAPE ARCHITECT, PRIOR TO BACKFILLING, IN THE EVENT THAT GRADE CONDITIONS ARE NOT AS SHOWN ON PLANS OR IN THE EVENT THAT RIM ELEVATIONS OF BASINS APPEAR TOO LOW OR TOO HIGH.
4. EXCEPT FOR TRENCHES, CLASS II AGG BASE TO MAKE GRADE IN ALL "FILL" AREAS UNDER CONCRETE OR ASPHALT.
5. ALL SOIL IN PLANTING TO BE AMENDED PER SPECIFICATIONS.
6. FINAL GRADE AT EDGE OF ASPHALT TO BE 2½" BELOW CONCRETE AND TOP OF WALL TO ALLOW FOR SURFACE MATERIAL.

L.I.D. AREA SUMMARY

			OWP SIZING TOOL RESULTS**		DESIGN RESULTS					
	CONTRIBUTING IMPERVIOUS SURFACE		MINIMUM LID REQUIREMENTS		DESIGN LEVEL LID		RETAINED STORM WATER	NEW IMPERVIOUS SURFACE		VOLUME
LID PROJECT	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.	%	ACRES	SQ. FT.	CU. FT.
ENTRY RAIN GARDEN	.204	8,886	.010	428	.016	678	158.4%	.192	8,385	1,503

1. THE FRONT ENTRY AREA HAS 8,886 SF OF WATERSHED, WHICH REQUIRES 428 SF OF L.I.D.

** Office of Water Programs (OWP) Phase II LID Sizing Tool: http://www.owp.csus.edu/LIDTool/Start.aspx



IRRIGATION NOTES

1. THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH. ADJUST CONTROLLER AS REQUIRED TO ACHIEVE THIS GOAL AS REQUIRED BY THE TIME OF YEAR.
2. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR 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.
3. 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 WHERE THEY NEED TO BE SLEEVED. PLACE PIPING TO PREVENT CONFLICT WITH SUBSEQUENT PLANTING. REFER TO PLANTING PLAN.
4. CONTRACTOR TO PROVIDE COMPLETE 'AS-BUILT' DRAWINGS TO CLIENT AT COMPLETION OF PROJECT.
5. IRRIGATION MAIN LINES TO A DEPTH OF 24", AND DRIP LINE LATERALS TO A DEPTH OF 12" AND DRIP TO A DEPTH OF 4". TRENCH ALL MAIN OR LATERAL LINES TO A DEPTH OF 24" WHERE CROSSING BENEATH PAVEMENT AND PLACE WITHIN A SCHEDULE 40 SLEEVE, SIZE AS NEEDED. SLEEVE ELECTRICAL WIRES SEPARATELY IN PVC SCHEDULE 40 CONDUIT WHERE CROSSING BENEATH PAVEMENT.
6. ALL REMOTE CONTROL VALVES SHALL BE INSTALLED IN LOCKABLE VALVE BOXES.
7. CONTRACTOR IS RESPONSIBLE FOR IRRIGATION TO EACH PLANT. ADJUST HEADS, OR ADD DRIP LINE AS REQUIRED AT NO ADDITIONAL COST TO THE CLIENT.
8. SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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. CALL ALL APPLICABLE AGENCIES AND USA, (800) 642-2444. THE LANDSCAPE ARCHITECT CANNOT BE RESPONSIBLE FOR THE COMPLETENESS OR ACCURACY OF THIS INFORMATION AND PROVISION OF TENTATIVE UTILITY LOCATION DOES NOT IN ANY WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO CONTACT USA AND APPLICABLE AGENCIES FOR VERIFICATION.
2. INSTALL ALL ELEMENTS PER MANUFACTURERS' SPECIFICATIONS.
3. PROVIDE A COMPLETE SET OF LITERATURE CUT SHEETS FOR LANDSCAPE ARCHITECT'S APPROVAL.
4. CONTRACTOR IS RESPONSIBLE TO COORDINATE HIS WORK WITH THE WORK OF OTHERS.
5. CONSTRUCTION SHALL CONFORM TO ALL UNIFORM BUILDING CODE, 2013 EDITION, AND SPECIFICATIONS.
6. CONTRACTOR SHALL OBSERVE ALL SAFETY REGULATIONS PERTAINING TO THIS PROJECT.
7. ANY CHANGES SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
8. STOCKPILE EXCESS NATIVE SOIL FOR USE IN OTHER PLANTERS OR TROUGHS AS NEEDED FOR PROJECT. EXCESS SOIL AT END OF PROJECT MAY BE DROPPED OFF AT THE CUSD CORPORATION YARD, 2455 CARMICHAEL DR, IN CHICO.
9. PROVIDE POSITIVE DRAINAGE AWAY FROM WALLS AND STRUCTURES. DRAINAGE PATHS SHALL DIVERT RUNOFF AROUND STRUCTURES. MINIMUM 2% SLOPE AWAY FROM BUILDINGS. CONTACT OWNER IF UNABLE TO PROVIDE 2% POSITIVE DRAINAGE AND OR IF THERE ARE LOW SPOTS WITHOUT POSITIVE DRAINAGE PRIOR TO IMPROVEMENTS.
10. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR ANY DAMAGES MADE TO EXISTING UTILITIES AND HARDSCAPE AT NO ADDITIONAL COST TO THE OWNER.

CONSTRUCTION LEGEND

SYMBOL	DESCRIPTION	MODEL/REMARKS	DETAIL
	0 TURF DEMOLITION AREAS	REMOVE TURF AND ROOTS FOR LID PROJECT AREA. TURF AND ROOT SPOILS MAY BE DROPPED OF AT THE CUSD CORPORATION YARD 2455 CARMICHAEL DR, IN CHICO.	--
	1 WATERSHED AREA	RETAIN AND PROTECT	--
	2 PROJECT AREA (L.I.D.)	LOW IMPACT DEVELOPMENT (LID) AREA.	4, 7/ L-10.1
	3 EXISTING BUILDING WALL	RETAIN AND PROTECT	--
	4 EXISTING ROOFLINE	RETAIN AND PROTECT	--
	5 ROOF DRAIN TO GROUND SURFACE	RETAIN AND PROTECT	--
	6 EXISTING CONCRETE SIDEWALK	RETAIN AND PROTECT	--
	7 EXISTING ASPHALT SURFACE	RETAIN AND PROTECT	--
	8 EXISTING STORM DRAIN	IN LID AREAS. SAND, CLEAN, AND PRIMER DRAIN INLET GRATE, BEFORE PAINTING W/ BENJAMIN MOORE COLOR: ROCKY MOUNTAIN SKY	--
	9 EXISTING TURF	RETAIN AND PROTECT EXISTING SOIL AND VEGETATION OUTSIDE OF LID AREA	--
	10 EXISTING UTILITIES	IRRIGATION, WATER MAIN, ELECTRICAL BOXES ETC. RETAIN AND PROTECT	--
	11 STEEL TROUGH, RECTANGULAR	COUNTY LINE STOCK TANK- GALVANIZED OVAL. 2' WIDE, 6' LONG, 2' DEEP. CENTER TROUGH ON DRAINAGE PIPE PER PLAN	4/L-10.0
	12 EXISTING DOWNSPOUT	RUN INTO TROUGH PER DETAIL	4/L-10.0
	14 EXISTING VEGETABLE GARDEN	RETAIN AND PROTECT	--
	15 EXISTING TREE	RETAIN AND PROTECT PER NOTES IN BOOK FORM SPECIFICATIONS	--
	16 POINT OF CONNECTION	CONNECT TO EXISTING MAINLINE AT HOSE BIB. HOSE BIB TO FUNCTION AFTER CONNECTION	--
	17 EXISTING DOWNSPOUT	DISCONNECT FROM DOWNSPOUT AND CAP PER DETAIL	5/L-10.0
	18 DRIP IRRIGATION SYSTEM	INLINE EMITTERS AND BARBED DRIP EMITTERS. SEE DETAIL FOR MORE INFORMATION	14/L-10.2
	19 EXISTING STREET LIGHT BOX	RETAIN AND PROTECT	--
	20 NEW IRRIGATION CONTROL VALVE	REPLACE EXISTING IRRIGATION VALVE FOR NEARBY GARDEN DRIP SYSTEM WITH NEW HUNTER VALVE ICZ-101 AND BATTERY OPERATED NODE-400 CONTROLLER. SEE IRRIGATION APPROACH, THIS PAGE.	5/L-10.2
	*21 WATER SAMPLE TUBES	PLACE AT THE LOWEST POINT OF LID AREA	1/L-10.1
	22 EXISTING VALVE BOX	RETAIN AND PROTECT	--
	23 LATERAL PIPE	NON-PRESSURE, PVC SCH. 40. INSTALL AS PER PLAN AND DETAILS. SIZE PER CHART. AVOID TREES AND ROOTS. SEE TREE PROTECTION NOTE OF BOOK FORM SPECIFICATIONS	6/L-10.1 1/L-10.2
	24 IRRIGATION SLEEVING, 3"	SCHEDULE 40, INSTALL MAIN LINE AND LATERALS IN SLEEVE AS SHOWN AND AS NEEDED TO ACCOMMODATE PIPES CROSSING BENEATH PAVEMENT, WALKWAYS, ETC. PIPES SHALL BE LARGE ENOUGH TO ALLOW 25% VOID SPACE AFTER ALL PIPES ARE PLACED. MINIMUM SLEEVE SIZE SHALL BE 2". COVER WITH ASPHALT PATCH	6/L-10.1
	25 EXISTING WATER VALVES FOR DRINKING FAUCET AND ADJACENT BUILDING	RETAIN AND PROTECT	--
	26 BASALT CHIP AROUND L.I.D. PROJECT EDGE	(0"-¾") - 2" THICK. SLOPE TO DRAIN SWALE. COVER AREA BETWEEN LID AND SIDEWALK	--

NOTE: SOME PORTIONS OF DRIP IRRIGATION SYSTEM MAY BE BID AS ADD ALTERNATE. SEE BID FORM FOR MORE INFORMATION

*ADD ALTERNATE BID ITEM NOTES

1. ITEMS SHOWN WITH AN ASTERISK TO BE BID AS AN ADD ALTERNATE.
2. ALTERNATIVES QUOTED ON CONTRACT FORMS WILL BE REVIEWED AND ACCEPTED OR REJECTED AT OWNER'S OPTION. ACCEPTED ALTERNATIVES WILL BE IDENTIFIED IN THE OWNER-CONTRACTOR AGREEMENT.
3. THE OWNER HAS THE OPTION OF ACCEPTING NONE, OR ANY NUMBER AND COMBINATION OF BID ALTERNATIVES.
4. COORDINATE RELATED WORK AND MODIFY SURROUNDING WORK TO INTEGRATE THE WORK OF EACH ALTERNATIVE.

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CHICO UNIFIED SCHOOL DISTRICT
1163 E. 7TH STREET
CHICO, CA 95928

PROJECT

DROPS:
NEAL DOW ELEMENTARY SCHOOL

SHEET TITLE

CONSTRUCTION PLAN

DATES

NO.	DESCRIPTION	DATE
1.	BID DOCUMENTS	10/20/2016
2.		
3.		
4.		
5.		
6.		
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PLOT DATE: 11/4/2016

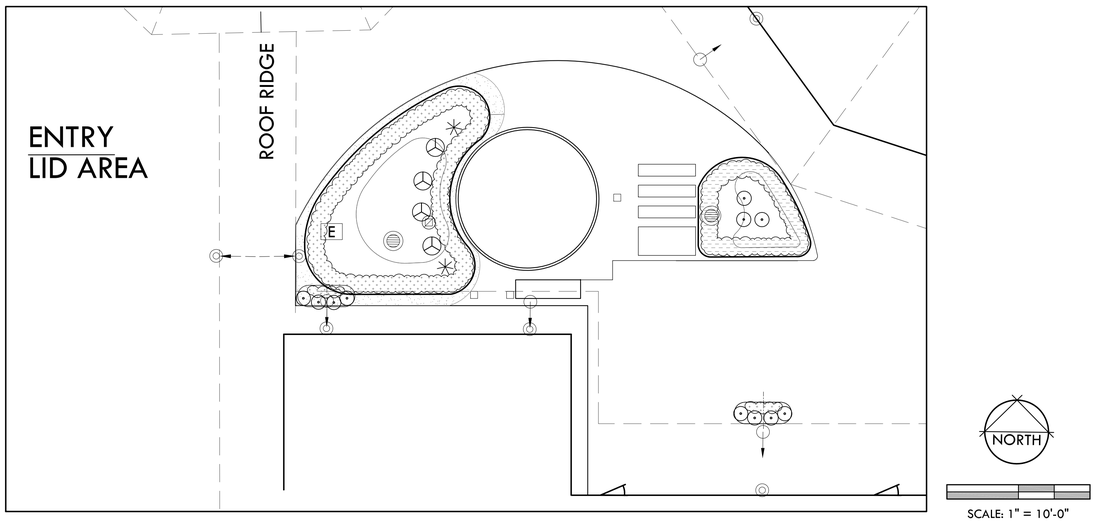
PROJECT NUMBERS

MELTON DESIGN GROUP: 2265
CONSULTANT PROJECT #:

SHEET NUMBER

L-3.0

SHEET 6 OF 14



NORTH

SCALE: 1" = 10'-0"

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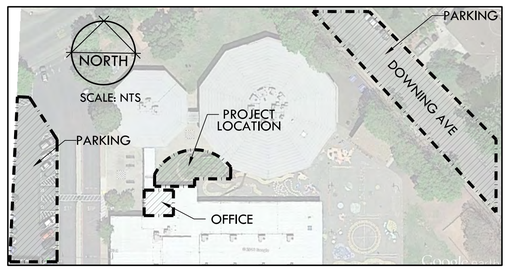
4. COORDINATE RELATED WORK AND MODIFY SURROUNDING WORK TO INTEGRATE THE WORK OF EACH ALTERNATIVE.
5. A PERCENTAGE OF VEGETATION AND IRRIGATION WILL BE SHOWN ON BID FORMS AS AN ADD ALTERNATE. SEE BID FORM SPEC SHEETS.

SITE LOCATION MAP



PLANTING LEGEND

SYMBOL	LATIN NAME/ COMMON NAME	CONTAINER SIZE	QTY	REMARKS	WATER USE	DETAIL
SHRUBS						
S-1	CALAMAGROSTIS X ACUTIFLORA KARL FOERSTER REED GRASS	1 GAL	2		L	2/L-10.3
S-2	CHONDROPETALUM TECTORUM SMALL CAPE RUSH	1 GAL	11		L	2/L-10.3
S-3	JUNCUS EFFUSUS COMMON RUSH	1 GAL	4		M	2/L-10.3
GROUNDCOVER						
G-1	CAREX PANSA DUNE SEDGE	PLUGS	PER AREA	12" O.C.	M	3/L-10.3
G-2	CAREX DIVULSA BERKELEY SEDGE	PLUGS	PER AREA	12" O.C.	L	3/L-10.3

NOTE: PLANT DOUBLE ROW OF PLUGS IN TRIANGLE SPACING 12" O.C. AROUND PERIMETER OF PLANTING AREA AND AT 6" OFF OF EDGE.

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MELTONDESIGNGROUP
309 WALL STREET
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LICENSE

REGISTERED LANDSCAPE ARCHITECT
GREG MELTON
#4217
EXP. 11-17
STATE OF CALIFORNIA

CONSULTANT

CLIENT

CHICO UNIFIED SCHOOL DISTRICT
1163 E. 7TH STREET
CHICO, CA 95928

PROJECT

DROPS: NEAL DOW ELEMENTARY SCHOOL

SHEET TITLE

PLANTING PLAN

DATES

NO.	DESCRIPTION	DATE
1.	BID DOCUMENTS	10/20/2016
2.		
3.		
4.		
5.		
6.		
7.		
8.		

PLOT DATE: 11/4/2016

PROJECT NUMBERS

MELTON DESIGN GROUP: 2265
CONSULTANT PROJECT #:

SHEET NUMBER

L-3.1

SHEET 7 OF 14

IRRIGATION NOTES

1. THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH. ADJUST CONTROLLER AS REQUIRED TO ACHIEVE THIS GOAL AS REQUIRED BY THE TIME OF YEAR.
2. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR 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.
3. 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 WHERE THEY NEED TO BE SLEEVED. PLACE PIPING TO PREVENT CONFLICT WITH SUBSEQUENT PLANTING. REFER TO PLANTING PLAN.
4. CONTRACTOR TO PROVIDE COMPLETE 'AS-BUILT' DRAWINGS TO CLIENT AT COMPLETION OF PROJECT.
5. IRRIGATION MAIN LINES TO A DEPTH OF 24", AND DRIP LINE LATERALS TO A DEPTH OF 12" AND DRIP TO A DEPTH OF 4". TRENCH ALL MAIN OR LATERAL LINES TO A DEPTH OF 24" WHERE CROSSING BENEATH PAVEMENT AND PLACE WITHIN A SCHEDULE 40 SLEEVE, SIZE AS NEEDED. SLEEVE ELECTRICAL WIRES SEPARATELY IN PVC SCHEDULE 40 CONDUIT WHERE CROSSING BENEATH PAVEMENT.
6. ALL REMOTE CONTROL VALVES SHALL BE INSTALLED IN LOCKABLE VALVE BOXES.
7. CONTRACTOR IS RESPONSIBLE FOR IRRIGATION TO EACH PLANT. ADJUST HEADS, OR ADD DRIP LINE AS REQUIRED AT NO ADDITIONAL COST TO THE CLIENT.
8. SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

L.I.D. AREA SUMMARY

			OWP SIZING TOOL RESULTS**		DESIGN RESULTS					
	CONTRIBUTING IMPERVIOUS SURFACE		MINIMUM LID REQUIREMENTS		DESIGN LEVEL LID		RETAINED STORM WATER	NEW IMPERVIOUS SURFACE		VOLUME
LID PROJECT	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.	%	ACRES	SQ. FT.	CU. FT.
ENTRY RAIN GARDEN	.065	2,825	.003	136	.003	136	100.0%	.062	2,689	408
1. THE ENTRY AREA HAS 2,825 SF OF WATERSHED, WHICH REQUIRES 136 SF OF LI.D										

** Office of Water Programs (OWP) Phase II LID Sizing Tool: http://www.owp.csus.edu/LIDTool/Start.aspx

IRRIGATION APPROACH

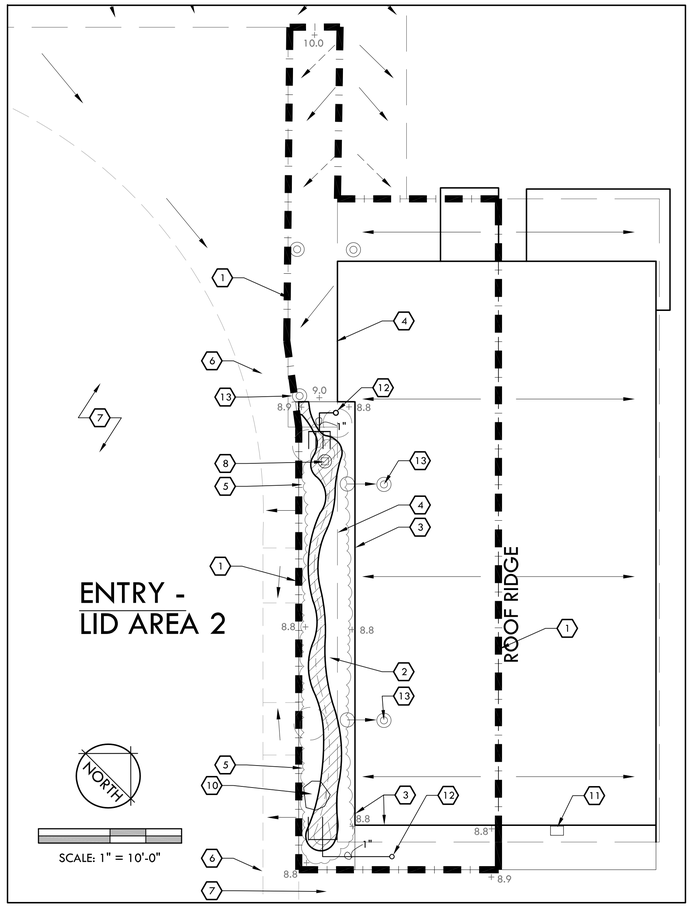
CONNECT TO EXISTING DRIP IRRIGATION SYSTEM WHERE SHOWN. IRRIGATE NEW PLANTS PER DETAIL 11/L-10.2. NO NEW VALVE

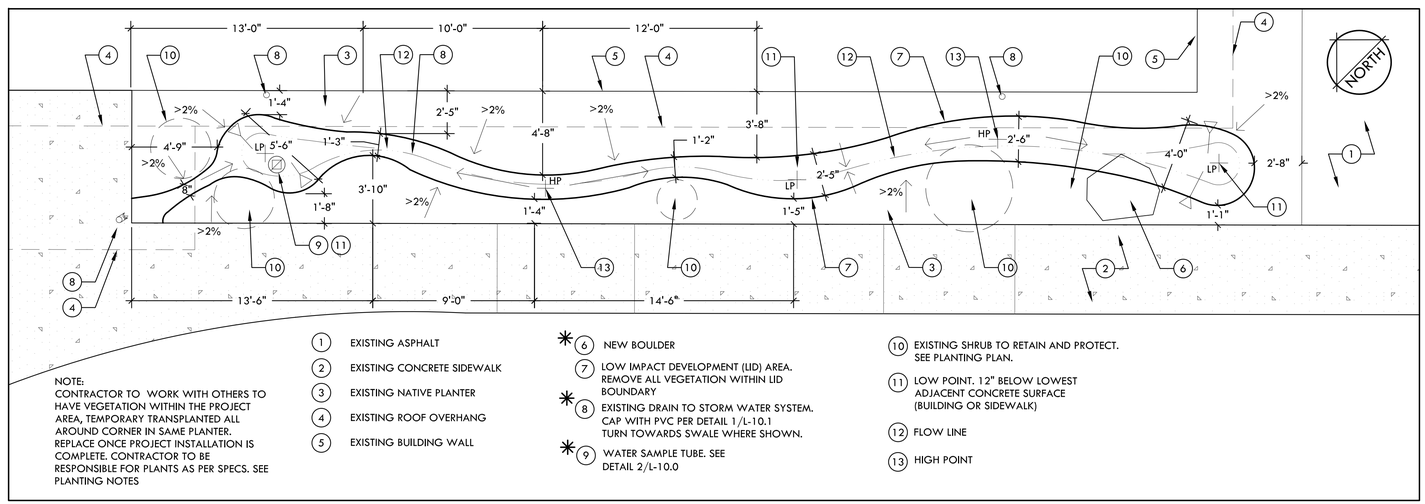
SOIL PERMEABILITY

PERCOLATION TEST AT NEAREST SOIL PROFILE	INITIAL PERCOLATION	PERCOLATION AFTER SATURATION
	0.62"/60 MIN.	0.5"/60 MIN.

GRADING LEGEND

EXISTING GRADES		PROPOSED GRADES	
+10.0	EXISTING SPOT ELEVATIONS	%	DIRECTION OF SLOPE AND DRAINAGE
%	DIRECTION AND SLOPE OF EXISTING DRAINAGE		SLOPE BANK. SEE DETAILS FOR SLOPE
		+HP	HIGH POINT
		+LP	LOW POINT





1 / L-8.0 ENTRY RAIN GARDEN PLAN
SCALE: 1/4" = 1'-0"

CONSTRUCTION LEGEND

SYMBOL	DESCRIPTION	MODEL/REMARKS	DETAIL
1	WATERSHED AREA	RETAIN AND PROTECT	--
2	PROJECT AREA (L.I.D.)	LOW IMPACT DEVELOPMENT (LID) AREA. LID AREA AND SURROUNDING PLANTER TO BE GRADED PER RAIN GARDEN DETAIL THIS SHEET AND DETAIL 2/L-10.1.	2/L-10.1
3	EXISTING BUILDING WALL	RETAIN AND PROTECT	--
4	EXISTING ROOFLINE	RETAIN AND PROTECT	--
5	EXISTING SHRUBS	KEEP SHRUBS THAT ARE SHOWN IN RAIN GARDEN PLAN BELOW. REMOVE ALL OTHER PLANTS AND DISPOSE OF OFFSITE.	--
6	EXISTING CONCRETE SIDEWALK	RETAIN AND PROTECT	--
7	EXISTING ASPHALT PARKING / DRIVEWAY	RETAIN AND PROTECT	--
*8	WATER SAMPLE TUBE	PLACE AROUND THE LOWEST AREA OF LID AREA	2/L-10.0
9	FLOW LINE	DRAIN SOIL TO HAVE A FINISHED GRADE 6"-8" BELOW RIM OF DRAIN INLET	--
*10	BOULDER	SIZE: 48" LOCAL BASALT	--
11	EXISTING IRRIGATION CONTROL BOX	RETAIN AND PROTECT	--
12	IRRIGATION POINT OF CONNECTION	CONNECT TO EXISTING DRIP TUBING	11/L-10.2
13	EXISTING DOWNSPOUT TO ADJUST	DISCONNECT FROM STORM DRAIN SYSTEM, AND ADJUST PER DETAILS	1/L-10.1

NOTE: SOME PORTIONS OF DRIP IRRIGATION SYSTEM MAY BE BID AS ADD ALTERNATE. SEE BID FORM FOR MORE INFORMATION

*ADD ALTERNATE BID ITEM NOTES

1. ITEMS SHOWN WITH AN ASTERISK TO BE BID AS AN ADD ALTERNATE.
2. ALTERNATIVES QUOTED ON CONTRACT FORMS WILL BE REVIEWED AND ACCEPTED OR REJECTED AT OWNER'S OPTION. ACCEPTED ALTERNATIVES WILL BE IDENTIFIED IN THE OWNER-CONTRACTOR AGREEMENT.
3. THE OWNER HAS THE OPTION OF ACCEPTING NONE, OR ANY NUMBER AND COMBINATION OF BID ALTERNATIVES.
4. COORDINATE RELATED WORK AND MODIFY SURROUNDING WORK TO INTEGRATE THE WORK OF EACH ALTERNATIVE.

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. CALL ALL APPLICABLE AGENCIES AND USA, (800) 642-2444. THE LANDSCAPE ARCHITECT CANNOT BE RESPONSIBLE FOR THE COMPLETENESS OR ACCURACY OF THIS INFORMATION AND PROVISION OF TENTATIVE UTILITY LOCATION DOES NOT IN ANY WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO CONTACT USA AND APPLICABLE AGENCIES FOR VERIFICATION.
2. INSTALL ALL ELEMENTS PER MANUFACTURERS' SPECIFICATIONS.
3. PROVIDE A COMPLETE SET OF LITERATURE CUT SHEETS FOR LANDSCAPE ARCHITECT'S APPROVAL.
4. CONTRACTOR IS RESPONSIBLE TO COORDINATE HIS WORK WITH THE WORK OF OTHERS.
5. CONSTRUCTION SHALL CONFORM TO ALL UNIFORM BUILDING CODE, 2013 EDITION, AND SPECIFICATIONS.
6. CONTRACTOR SHALL OBSERVE ALL SAFETY REGULATIONS PERTAINING TO THIS PROJECT.
7. ANY CHANGES SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
8. STOCKPILE EXCESS NATIVE SOIL FOR USE IN OTHER PLANTERS OR TROUGHS AS NEEDED FOR PROJECT. EXCESS SOIL AT END OF PROJECT MAY BE DROPPED OFF AT THE CUSD CORPORATION YARD, 2455 CARMICHAEL DR, IN CHICO.
9. PROVIDE POSITIVE DRAINAGE AWAY FROM WALLS AND STRUCTURES. DRAINAGE PATHS SHALL DIVERT RUNOFF AROUND STRUCTURES. MINIMUM 2% SLOPE AWAY FROM BUILDINGS. CONTACT OWNER IF UNABLE TO PROVIDE 2% POSITIVE DRAINAGE AND OR IF THERE ARE LOW SPOTS WITHOUT POSITIVE DRAINAGE PRIOR TO IMPROVEMENTS.
10. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR ANY DAMAGES MADE TO EXISTING UTILITIES AND HARDSCAPE AT NO ADDITIONAL COST TO THE OWNER.

GRADING AND DRAINAGE

1. BASE LINE ELEVATION SET TO EDGE OF CONCRETE WALK NEAR LID PROJECT AREA. POSITIVE DRAINAGE HAS BEEN CONFIRMED FROM CONCRETE WALK TO DRAIN INLET, AND SLOPES HAVE BEEN SHOWN ON PLAN
2. ADD 3" OF BASALT CHIP OVER LID AREA AND SWALE

GRADING NOTES

1. VERIFY EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO THE START OF WORK. CALL U.S.A. AT (800) 642-2444 AND VERIFY BY POTHOLE IF NECESSARY.
2. BACKFILL DRAINLINE TRENCHES WITH CLEAN SOIL FREE OF ROCK AND DEBRIS ½" OR LARGER. COMPACT BACKFILL TO ELIMINATE TRENCH SETTLING TO 90% UNDER ALL CONCRETE AND 80% IN LANDSCAPE AREA.
3. CONTACT LANDSCAPE ARCHITECT, PRIOR TO BACKFILLING, IN THE EVENT THAT GRADE CONDITIONS ARE NOT AS SHOWN ON PLANS OR IN THE EVENT THAT RIM ELEVATIONS OF BASINS APPEAR TOO LOW OR TOO HIGH.
4. EXCEPT FOR TRENCHES, CLASS II AGG BASE TO MAKE GRADE IN ALL "FILL" AREAS UNDER CONCRETE OR ASPHALT.
5. ALL SOIL IN PLANTING TO BE AMENDED PER SPECIFICATIONS.
6. FINAL GRADE AT EDGE OF ASPHALT TO BE 2½" BELOW CONCRETE AND TOP OF WALL TO ALLOW FOR SURFACE MATERIAL.

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REGISTERED LANDSCAPE ARCHITECT GREG MELTON #4217 EXP. 11-17 STATE OF CALIFORNIA

CONSULTANT

CLIENT

CHICO UNIFIED SCHOOL DISTRICT
1163 E. 7TH STREET
CHICO, CA 95928

PROJECT

DROPS: PARKVIEW ELEMENTARY ENTRY

SHEET TITLE

CONSTRUCTION PLAN

DATES

NO.	DESCRIPTION	DATE
1.	BID DOCUMENTS	10/20/2016
2.		
3.		
4.		
5.		
6.		
7.		
8.		

PLOT DATE: 11/4/2016

PROJECT NUMBERS

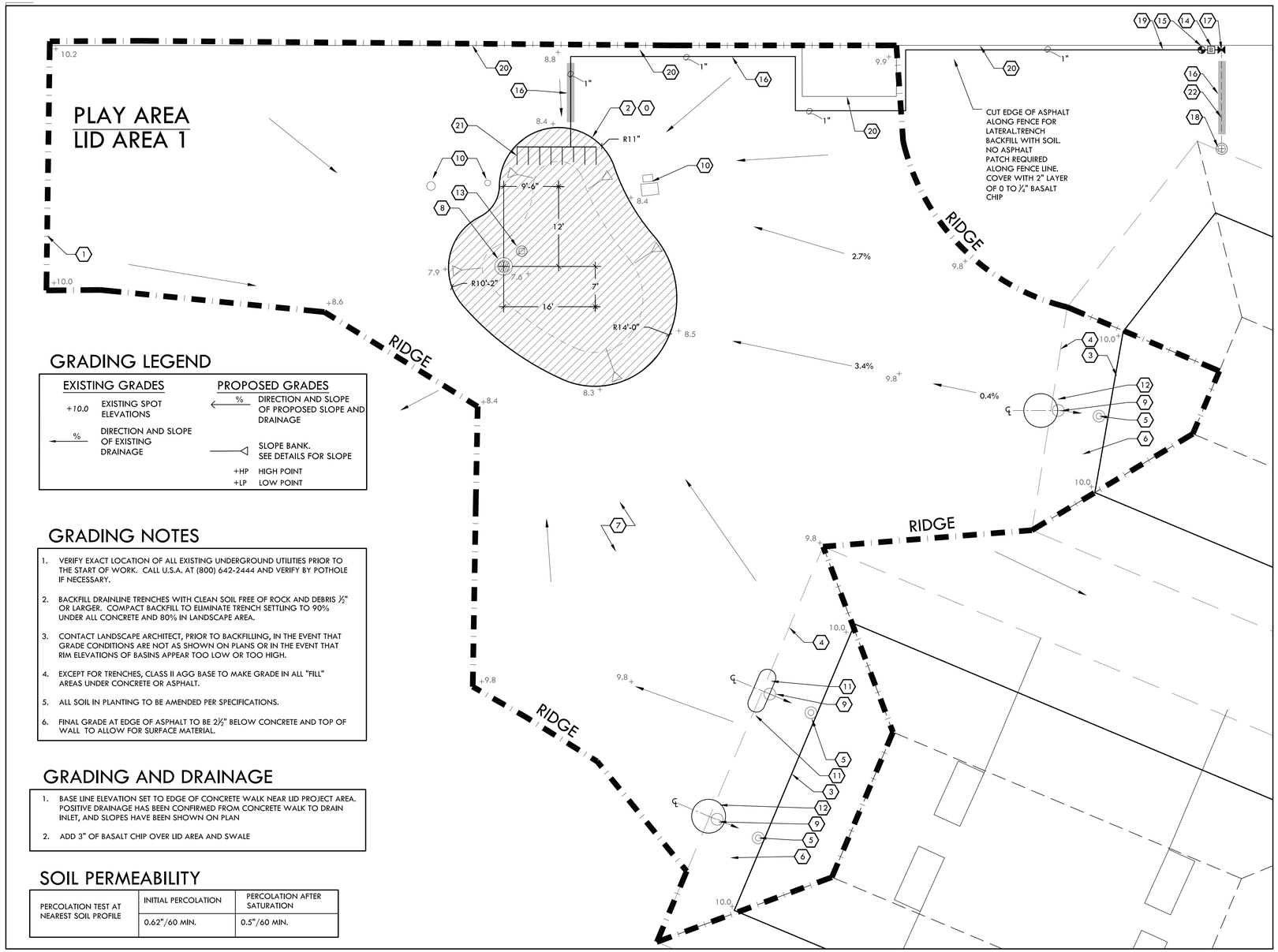
MELTON DESIGN GROUP: 2265
CONSULTANT PROJECT #:

SHEET NUMBER

L-4.0

SHEET 8 OF 14

Plot Date: November 04, 2016 - 2:34 pm File Name: G:\MDG(2200-2299)\2265 CUSD DROPS\2265 CAD\2265 CDs\2265 CD Parkview\2265 Parkview Const Plan.dwg



GRADING LEGEND

EXISTING GRADES		PROPOSED GRADES	
+10.0	EXISTING SPOT ELEVATIONS	%	DIRECTION AND SLOPE OF PROPOSED SLOPE AND DRAINAGE
%	DIRECTION AND SLOPE OF EXISTING DRAINAGE		SLOPE BANK. SEE DETAILS FOR SLOPE
		+HP	HIGH POINT
		+LP	LOW POINT

GRADING NOTES

1. VERIFY EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO THE START OF WORK. CALL U.S.A. AT (800) 642-2444 AND VERIFY BY POTHOLE IF NECESSARY.
2. BACKFILL DRAINLINE TRENCHES WITH CLEAN SOIL FREE OF ROCK AND DEBRIS ½" OR LARGER. COMPACT BACKFILL TO ELIMINATE TRENCH SETTLING TO 90% UNDER ALL CONCRETE AND 80% IN LANDSCAPE AREA.
3. CONTACT LANDSCAPE ARCHITECT, PRIOR TO BACKFILLING, IN THE EVENT THAT GRADE CONDITIONS ARE NOT AS SHOWN ON PLANS OR IN THE EVENT THAT RIM ELEVATIONS OF BASINS APPEAR TOO LOW OR TOO HIGH.
4. EXCEPT FOR TRENCHES, CLASS II AGG BASE TO MAKE GRADE IN ALL "FILL" AREAS UNDER CONCRETE OR ASPHALT.
5. ALL SOIL IN PLANTING TO BE AMENDED PER SPECIFICATIONS.
6. FINAL GRADE AT EDGE OF ASPHALT TO BE 2½" BELOW CONCRETE AND TOP OF WALL TO ALLOW FOR SURFACE MATERIAL.

GRADING AND DRAINAGE

1. BASE LINE ELEVATION SET TO EDGE OF CONCRETE WALK NEAR LID PROJECT AREA. POSITIVE DRAINAGE HAS BEEN CONFIRMED FROM CONCRETE WALK TO DRAIN INLET, AND SLOPES HAVE BEEN SHOWN ON PLAN
2. ADD 3" OF BASALT CHIP OVER LID AREA AND SWALE

SOIL PERMEABILITY

PERCOLATION TEST AT NEAREST SOIL PROFILE	INITIAL PERCOLATION	PERCOLATION AFTER SATURATION
	0.62"/60 MIN.	0.5"/60 MIN.

CONSTRUCTION LEGEND

SYMBOL	DESCRIPTION	MODEL/REMARKS	DETAIL
0	EXISTING ASPHALT TO BE REMOVED	DISPOSE OF OFFSITE	4, 7 /L-10.1
1	WATERSHED AREA	RETAIN AND PROTECT	--
2	PROJECT AREA (L.I.D.)	EXCAVATE NATIVE SOIL, STOCKPILE ONSITE. REMOVE EXCESS OFF SITE UPON PROJECT COMPLETION	4, 7 /L-10.1
3	EXISTING BUILDING WALL	RETAIN AND PROTECT	--
4	EXISTING ROOFLINE	RETAIN AND PROTECT	--
* 5	EXISTING DOWNSPOUT DRAIN CONNECT TO TROUGH	--	4,5/L-10.0
6	EXISTING CONCRETE SIDEWALK	RETAIN AND PROTECT	--
7	EXISTING ASPHALT SURFACE	RETAIN AND PROTECT	--
8	STORM DRAIN	IN LID AREAS: SAND, CLEAN, AND PRIMER DRAIN INLET GRATE, BEFORE PAINTING W/ BENJAMIN MOORE COLOR: ROCKY MOUNTAIN SKY	--
* 9	EXISTING DOWNSPOUT FROM ROOF	DRAIN INTO TROUGH PER DETAIL	4,5/L-10.0
10	EXISTING UTILITIES	IRRIGATION, WATER MAIN, ELECTRICAL BOXES ETC. RETAIN AND PROTECT	--
* 11	STEEL TROUGH, RECTANGULAR	COUNTY LINE STOCK TANK- GALVANIZED OVAL. 2' WIDE, 6' LONG, 2' DEEP. CENTER TROUGH ON DOWNSPOUT.	4/L-10.0
* 12	STEEL TROUGH, CIRCULAR	COUNTY LINE ROUND GALVANIZED STOCK TANK. 6' DIAM, 2' DEPTH	5/L-10.0
* 13	WATER SAMPLE TUBE	PLACE AROUND THE LOWEST AREA OF LID AREA	2/L-10.0
14	RP BACKFLOW DEVICE WILKINS 975XL	¾" POTABLE WATER RP BACKFLOW DEVICE TO DRINKING FOUNTAINS. INSTALL PER PLANS, DETAILS AND SPECIFICATIONS.	7/L-10.0
15	NEW REMOTE CONTROL VALVE DRIP ZONE	BATTERY OPERATED NODE-400 HUNTER ICZ-101	5/L-10.2
16	IRRIGATION SLEEVING 3"	SCHEDULE 40, INSTALL MAIN LINE AND LATERALS IN SLEEVE AS SHOWN AND NEEDED TO ACCOMMODATE PIPES CROSSING BENEATH PAVEMENT, WALKWAYS, ETC. PIPES SHALL BE LARGE ENOUGH TO ALLOW 25% VOID SPACE AFTER ALL PIPES ARE PLACED. MINIMUM SLEEVE SIZE SHALL BE 2". COVER WITH ASPHALT SLURRY PATCH	6/L-10.1
17	ISOLATION VALVE	--	4/L-10.2
18	EXISTING HOSE BIB	POINT OF CONNECTION FOR NEW IRRIGATION SYSTEM	11/L-10.2
19	LATERAL	NON-PRESSURE, PVC SCH. 40. INSTALL AS PER PLAN AND DETAILS. SIZE PER CHART.	1/L-10.2 6/L-10.1
20	EXISTING FENCE	RETAIN AND PROTECT.	--
21	DRIP IRRIGATION SYSTEM	INLINE EMITTERS AND BARBED DRIP EMITTERS. SEE DETAIL FOR MORE INFORMATION	11/L-10.2
22	PRESSURE MAINLINE	PVC SCHEDULE 40	6/L-10.1

NOTE: SOME PORTIONS OF DRIP IRRIGATION SYSTEM MAY BE BID AS ADD ALTERNATE. SEE BID FORM FOR MORE INFORMATION

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. CALL ALL APPLICABLE AGENCIES AND USA, (800) 642-2444. THE LANDSCAPE ARCHITECT CANNOT BE RESPONSIBLE FOR THE COMPLETENESS OR ACCURACY OF THIS INFORMATION AND PROVISION OF TENTATIVE UTILITY LOCATION DOES NOT IN ANY WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO CONTACT USA AND APPLICABLE AGENCIES FOR VERIFICATION.
2. INSTALL ALL ELEMENTS PER MANUFACTURERS' SPECIFICATIONS.
3. PROVIDE A COMPLETE SET OF LITERATURE CUT SHEETS FOR LANDSCAPE ARCHITECT'S APPROVAL.
4. CONTRACTOR IS RESPONSIBLE TO COORDINATE HIS WORK WITH THE WORK OF OTHERS.
5. CONSTRUCTION SHALL CONFORM TO ALL UNIFORM BUILDING CODE, 2013 EDITION, AND SPECIFICATIONS.
6. CONTRACTOR SHALL OBSERVE ALL SAFETY REGULATIONS PERTAINING TO THIS PROJECT.
7. ANY CHANGES SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
8. STOCKPILE EXCESS NATIVE SOIL FOR USE IN OTHER PLANTERS OR TROUGHS AS NEEDED FOR PROJECT. EXCESS SOIL AT END OF PROJECT MAY BE DROPPED OFF AT THE CUSD CORPORATION YARD, 2455 CARMICHAEL DR, IN CHICO
9. PROVIDE POSITIVE DRAINAGE AWAY FROM WALLS AND STRUCTURES. DRAINAGE PATHS SHALL DIVERT RUNOFF AROUND STRUCTURES. MINIMUM 2% SLOPE AWAY FROM BUILDINGS. CONTACT OWNER IF UNABLE TO PROVIDE 2% POSITIVE DRAINAGE AND OR IF THERE ARE LOW SPOTS WITHOUT POSITIVE DRAINAGE PRIOR TO IMPROVEMENTS.
10. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR ANY DAMAGES MADE TO EXISTING UTILITIES AND HARDSCAPE AT NO ADDITIONAL COST TO THE OWNER.

IRRIGATION NOTES

1. THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH. ADJUST CONTROLLER AS REQUIRED TO ACHIEVE THIS GOAL AS REQUIRED BY THE TIME OF YEAR.
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3. 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 WHERE THEY NEED TO BE SLEEVED. PLACE PIPING TO PREVENT CONFLICT WITH SUBSEQUENT PLANTING. REFER TO PLANTING PLAN.
4. CONTRACTOR TO PROVIDE COMPLETE 'AS-BUILT' DRAWINGS TO CLIENT AT COMPLETION OF PROJECT.
5. IRRIGATION MAIN LINES TO A DEPTH OF 24", AND DRIP LINE LATERALS TO A DEPTH OF 12" AND DRIP TO A DEPTH OF 4". TRENCH ALL MAIN OR LATERAL LINES TO A DEPTH OF 24" WHERE CROSSING BENEATH PAVEMENT AND PLACE WITHIN A SCHEDULE 40 SLEEVE, SIZE AS NEEDED. SLEEVE ELECTRICAL WIRES SEPARATELY IN PVC SCHEDULE 40 CONDUIT WHERE CROSSING BENEATH PAVEMENT.
6. ALL REMOTE CONTROL VALVES SHALL BE INSTALLED IN LOCKABLE VALVE BOXES.
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8. SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

*ADD ALTERNATE BID ITEM NOTES

1. ITEMS SHOWN WITH AN ASTERISK TO BE BID AS AN ADD ALTERNATE.
2. ALTERNATIVES QUOTED ON CONTRACT FORMS WILL BE REVIEWED AND ACCEPTED OR REJECTED AT OWNER'S OPTION. ACCEPTED ALTERNATIVES WILL BE IDENTIFIED IN THE OWNER-CONTRACTOR AGREEMENT.
3. THE OWNER HAS THE OPTION OF ACCEPTING NONE, OR ANY NUMBER AND COMBINATION OF BID ALTERNATIVES.
4. COORDINATE RELATED WORK AND MODIFY SURROUNDING WORK TO INTEGRATE THE WORK OF EACH ALTERNATIVE.

IRRIGATION APPROACH

1. CONNECT TO MAINLINE AT EXISTING HOSE BIB, INSTALL NEW ISOLATION VALVE, BACKFLOW PREVENTER, AND NEW VALVE ALONG FENCE LINE. CUT ASPHALT CLEANLY, 12" FROM EXISTING FENCE, TRENCH ACROSS ASPHALT TO LID AREA, PER DETAIL 1/L-10.2. INSTALL DRIP IRRIGATION IN LID PROJECT AREA.
2. HANDWATER TROUGHS FROM NEARBY HOSE BIB

L.I.D. AREA SUMMARY

			OWP SIZING TOOL RESULTS**		DESIGN RESULTS					
	CONTRIBUTING IMPERVIOUS SURFACE		MINIMUM LID REQUIREMENTS		DESIGN LEVEL LID		RETAINED STORM WATER	NEW IMPERVIOUS SURFACE		VOLUME
LID PROJECT	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.	%	ACRES	SQ. FT.	CU. FT.
ZONE 1 RAIN GARDEN	.363	15,830	.018	763	.029	1,259	165.0	.335	14,571	3,777

1. THE PLAYGROUND ZONE 1 AREA HAS 15,830 SF OF WATERSHED, REQUIRING 763 SF OF L.I.D

** Office of Water Programs (OWP) Phase II LID Sizing Tool: http://www.owp.csus.edu/LIDTool/Start.aspx

NORTH

0 10 20

SCALE: 1" = 10'-0"

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Call: TOLL FREE 1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

MDG MELTON DESIGN GROUP
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(530) 899-1616
www.meltondg.com

LICENSE

REGISTERED LANDSCAPE ARCHITECT GREG E. MELTON #4217 EXP. 11-17 STATE OF CALIFORNIA

CONSULTANT

CLIENT

CHICO UNIFIED SCHOOL DISTRICT
1163 E. 7TH STREET
CHICO, CA 95928

PROJECT

DROPS: PARKVIEW ELEMENTARY PLAY AREA

SHEET TITLE

CONSTRUCTION PLAN

DATES

NO.	DESCRIPTION	DATE
1.	BID DOCUMENTS	10/20/2016
2.		
3.		
4.		
5.		
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7.		
8.		

PLOT DATE: 11/4/2016

PROJECT NUMBERS

MELTON DESIGN GROUP: 2265
CONSULTANT PROJECT #:

SHEET NUMBER

L-4.1

SHEET 9 OF 14

Plot Date: November 04, 2016 - 2:33 pm File Name: G:\MDG\2200-2299\2265 CUSD DROPS\2265 CAD\2265 CDs\2265 CD Parkview\2265 Parkview Const Plan.dwg

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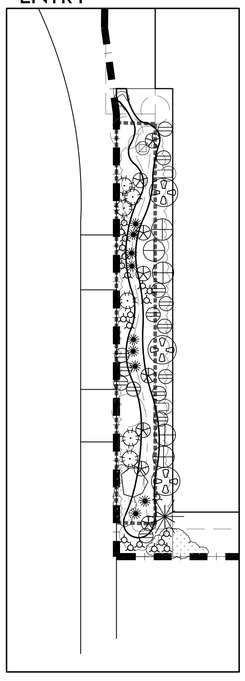
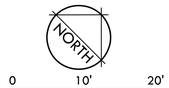
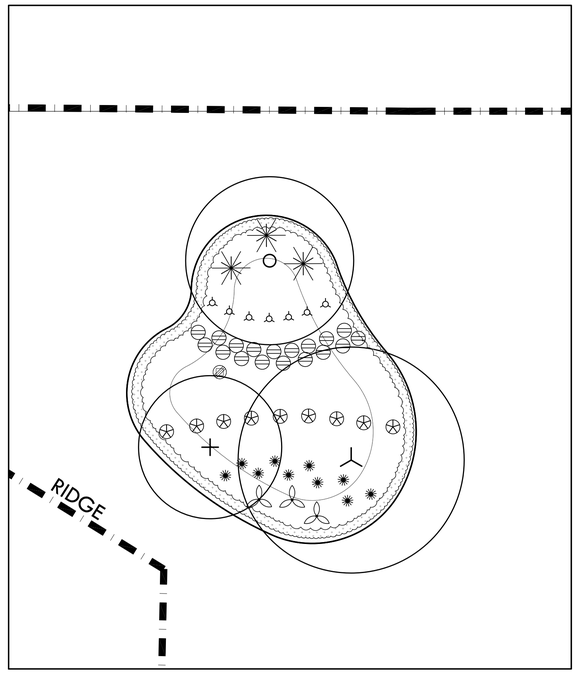
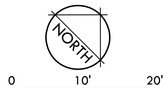




SCALE: 1" = 10'-0"

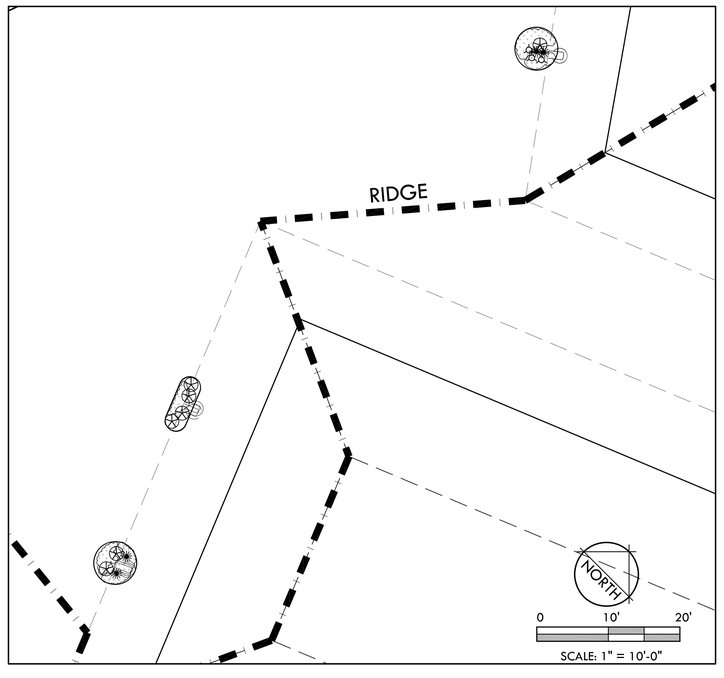
PLAY AREA





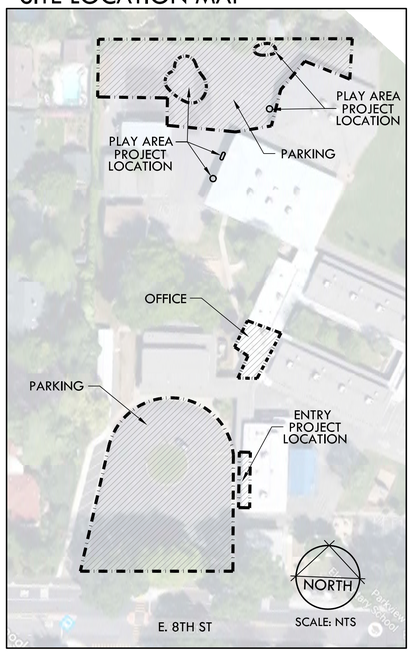
SCALE: 1" = 10'-0"

TROUGHS

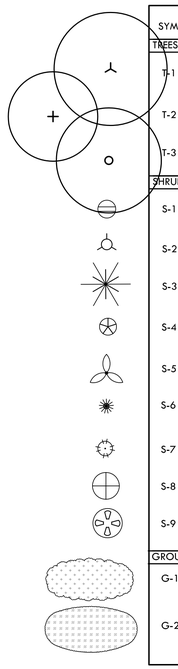


SCALE: 1" = 10'-0"

SITE LOCATION MAP



PLANTING LEGEND



SYMBOL	LATIN NAME/ COMMON NAME	CONTAINER SIZE	QTY	REMARKS	WATER USE	DETAIL
TREES						
T-1	ACER X FREEMANII 'JEFFERSRED' AUTUMN BLAZE MAPLE	15 GAL	1	STANDARD	M	1/L-10.3
T-2	FRAXINUS LATIFOLIA OREGON ASH	15 GAL	1	STANDARD	M	1/L-10.3
T-3	ALNUS RHOMBIFOLIA WHITE ALDER	15 GAL	1	STANDARD	M	1/L-10.3
SHRUBS						
S-1	LEYMUS TRITICOIDES CREEPING WILD RYE	1 GAL	32		L	2/L-10.3
S-2	SISYRINCHIUM ANGUSTIFOLIUM NARROWLEAF BLUE-EYED GRASS	1 GAL	31		M	2/L-10.3
S-3	MUHLENBERGIA RIGENS DEER GRASS	1 GAL	4		L	2/L-10.3
S-4	JUNCUS PATENS BLUE RUSH	1 GAL	24		M	2/L-10.3
S-5	IRIS DOUGLASIANA DOUGHLAS IRIS	1 GAL	3		L	2/L-10.3
S-6	TYPHA MINIMA DWARF CATTAIL	1 GAL	23		L	2/L-10.3
S-7	ZAUSCHNERIA CALIFORNICA CALIFORNIA FUCSCIA	1 GAL	6		L	2/L-10.3
S-8	ACHILLEA MILLEFOLIUM YARROW	1 GAL	5		L	2/L-10.3
S-9	PEROVSKIA ATRIPLICIFOLIA RUSSIAN SAGE	1 GAL	3		L	2/L-10.3
GROUNDCOVER						
G-1	CAREX PANSA DUNE SEDGE	PLUGS	PER AREA	12" O.C.	M	3/L-10.3
G-2	FRAGARIA CHILOENSIS BEACH STRAWBERRY	1 GAL	PER AREA	12" O.C.	M	3/L-10.3

NOTE: PLANT DOUBLE ROW OF PLUGS IN TRIANGLE SPACING 12" O.C. AROUND PERIMETER OF PLANTING AREA AND AT 6" OFF OF EDGE.

PLANTING NOTES

1. VERIFY EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
2. CONTRACTOR TO CONFIRM EXACT NUMBER BEFORE ORDERING OR INSTALLING ANY PLANT MATERIAL.
3. PLANT MATERIALS SHALL BE BID ON THE BASIS OF SPECIES AND CONTAINER SIZE, NOT ON CONTAINER SIZE ALONE.
4. SEE GRADING PLAN AND SPECIFICATIONS FOR SOIL AMENDMENT REQUIREMENTS.
5. CONTACT LANDSCAPE ARCHITECT IN THE EVENT A PLANT SPECIES OR SIZE IS UNAVAILABLE. ALL SUBSTITUTIONS MUST BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO ORDERING.
6. FILL AREA ADJACENT TO EXISTING TURF AND NEW MOW CURB WITH TOPSOIL.
7. TEMPORARILY TRANSPLANT EXISTING VEGETATION WITHIN PROJECT AREA, FOR REINSTALLATION ONCE PROJECT IS COMPLETED.

BID ITEM NOTES

1. SOME PLANT QUANTITIES ARE BID AS ADD ALTERNATES. SEE BID FORM FOR MORE INFORMATION.
2. ALTERNATIVES QUOTED ON CONTRACT FORMS WILL BE REVIEWED AND ACCEPTED OR REJECTED AT OWNER'S OPTION. ACCEPTED ALTERNATIVES WILL BE IDENTIFIED IN THE OWNER-CONTRACTOR AGREEMENT.
3. THE OWNER HAS THE OPTION OF ACCEPTING NONE, OR ANY NUMBER AND COMBINATION OF BID ALTERNATIVES.
4. COORDINATE RELATED WORK AND MODIFY SURROUNDING WORK TO INTEGRATE THE WORK OF EACH ALTERNATIVE.
5. A PERCENTAGE OF VEGETATION AND IRRIGATION WILL BE SHOWN ON BID FORMS AS AN ADD ALTERNATE. SEE BID FORM SPEC SHEETS.

MDG
MELTONDESIGNGROUP

309 WALL STREET
CHICO, CA 95928
(530) 899-1616
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LICENSE

REGISTERED LANDSCAPE ARCHITECT
GREG MELTON
#4217
EXP. 11-17
STATE OF CALIFORNIA

CONSULTANT

CLIENT

CHICO UNIFIED SCHOOL DISTRICT
1163 E. 7TH STREET
CHICO, CA 95928

PROJECT

DROPS: PARKVIEW ELEMENTARY

SHEET TITLE

PLANTING PLAN

DATES

NO.	DESCRIPTION	DATE
1.	BID DOCUMENTS	10/20/2016
2.		
3.		
4.		
5.		
6.		
7.		
8.		

PLOT DATE: 11/04/2016

PROJECT NUMBERS

MELTON DESIGN GROUP: 2265
CONSULTANT PROJECT #:

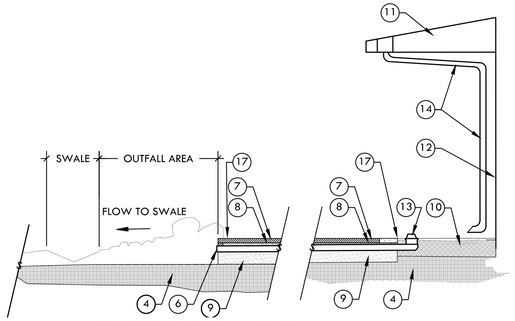
SHEET NUMBER

L-4.2

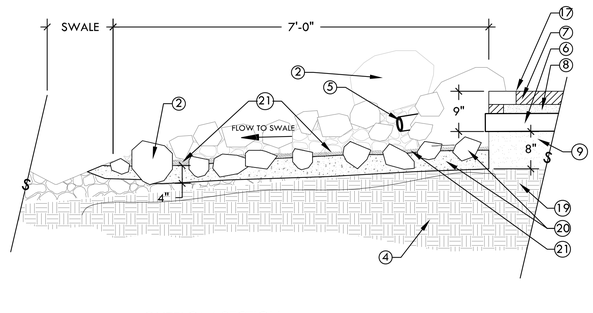
SHEET 10 OF 14

UNDERGROUND SERVICE ALERT
of Northern California
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

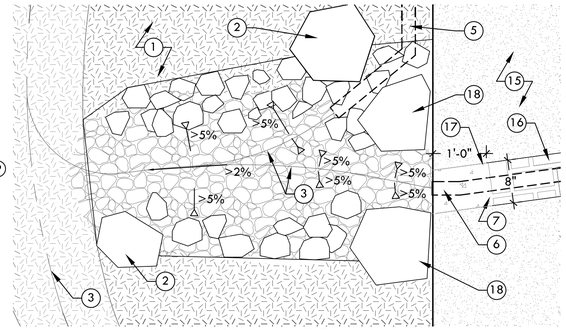
Plot Date: November 04, 2016 - 2:32 pm File Name: G:\MDG(2200-2299)\2265 CUSD DROPS\2265 CAD\2265 CDs\2265 CD Parkview\2265 Parkview Plant.dwg



ROOF DRAIN TO RAIN GARDEN
SCALE: 1/4" = 1'-0"



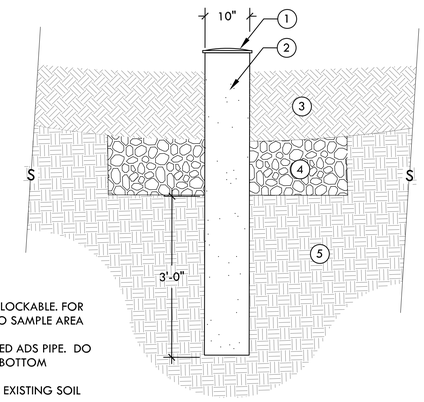
OUTFLOW SECTION
SCALE: 3/4" = 1'-0"



OUTFLOW - DRAIN EXHIBIT PLAN
SCALE: 3/4" = 1'-0"

1. 2" LAYER OF 0- ¾" BASALT CHIP
2. 18"-24" FIELD STONE BOULDERS. BURY ⅓ OF BOULDER AND ANCHOR IN CONCRETE
3. FLOW LINE
4. NATIVE SOIL
5. OUTFLOW FROM CISTERN 3" SCH 40 PVC. BURY AS NEEDED TO MAKE FLOW AND COME OUT ABOVE BOTTOM OF SWALE
6. 4" OUTFLOW FROM DOWNSPOUT
7. PERMEABLE PAVERS. SEE DETAIL 4/L-10.3
8. SAND LEVELING FOR PAVERS
9. SAND BED FOR DRAIN PIPE
10. EXISTING PLANTER BED
11. EXISTING BUILDING ROOF
12. EXISTING BUILDING WALL
13. 4" ATRIUM PLASTIC GREEN POLYOLEFIN GRATE DRAIN UNDER CONCRETE TO SWALE.
14. EXISTING DOWNSPOUT
15. EXISTING CONCRETE SURFACE
16. EXPANSION JOINT - REMOVE CONCRETE ALONG SOUTH SIDE OF JOINT. TRENCH TO FIT PAVERS AND DRAINAGE PIPE
17. RETAIN 12" SECTION OF EXISTING CONCRETE AS CAP FOR PAVERS
18. 24" BOULDER ADJACENT TO CONCRETE EDGE.
19. SOIL SEPARATION , SOIL SEPARATION FABRIC TO BE DEWITT WEED-BARRIER 20 YEAR.
20. 4"-8" COBBLE ANCHORED IN 4" CONCRETE SLAB. BURY HALF OF COBBLE IN 4" LAYER CONCRETE.
21. ¼" BASALT CHIP SPRINKLED ON TOP OF CONCRETE AND AROUND COBBLE WHILE WET

1 L-10.0 DOWNSPOUT TO BIOSWALE - CHAPMAN ELEMENTARY SCHOOL ENTRY

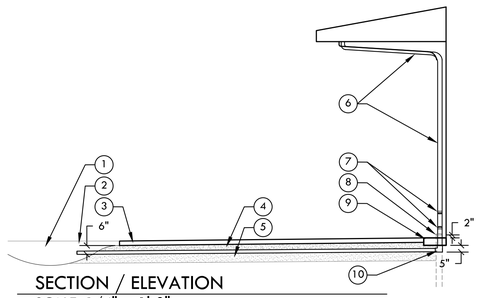


1. NDS CAP, LOCKABLE. FOR ACCESS TO SAMPLE AREA
2. PERFORATED ADS PIPE. DO NOT CAP BOTTOM
3. AMENDED EXISTING SOIL
4. DRAINROCK
5. EXISTING NATIVE SOIL

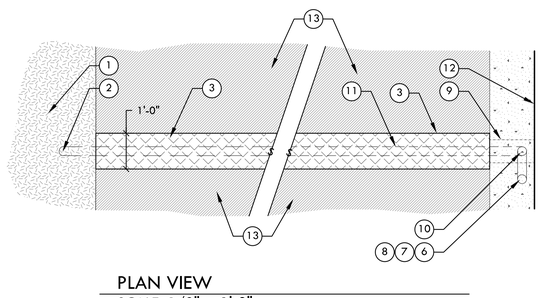
2 L-10.0 WATER SAMPLE TUBE

* ADD ALTERNATE

SCALE: 3/4" = 1'-0"



SECTION / ELEVATION
SCALE: 1/4" = 1'-0"



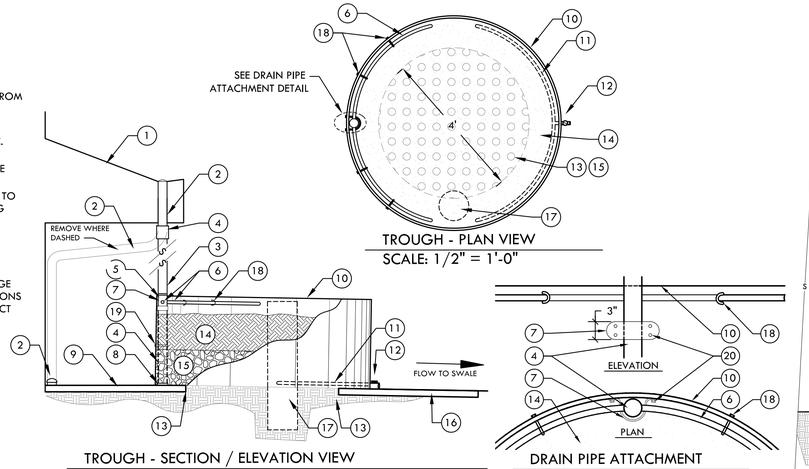
PLAN VIEW
SCALE: 1/2" = 1'-0"

1. L.I.D. AREA
2. OUTFALL FOR NON- PERFORATED PIPE DRAIN TO L.I.D. AREA. INSTALL SO THAT IT DAYLIGHT A MINIMUM OF 6" BELOW BOTTOM OF ASPHALT AND SLOPE TO DRAIN.
3. ASPHALT PATCH. MATCH EXISTING SECTION
4. SAND LEVELING FOR ASPHALT
5. SAND BED FOR DRAIN PIPE
6. EXISTING 3" O.D. DOWNSPOUT FROM ROOF
7. CUT PIPE AND INSTALL 90° ELBOW
8. DRAIN TO EXISTING STORM WATER. SAW CUT FROM DRAIN ROOF DRAIN. PLUG AND SEAL WITH PVC CAP. SEE DETAIL 1/L-10.1
9. EXISTING CONCRETE CURB. SAW CUT AS NEEDED TO INSTALL DRAIN PIPE SYSTEM. PATCH CONCRETE TO MATCH EXISTING CURB.
10. 90° ELBOW PLACED AT LEAST 1" ABOVE THE BASE OF EXISTING CONCRETE CURB.
11. NON-PERFORATED PIPE DRAIN TO L.I.D. AREA
12. BUILDING WALL
13. EXISTING ASPHALT.

3 L-10.0 DOWNSPOUT EXTENSION TO L.I.D. AREA

* ADD ALTERNATE

1. EXISTING ROOF TOP
2. EXISTING DOWNSPOUT - 3" GALVANIZED PIPE - REMOVE WHERE SHOWN. CAP AT SIDEWALK
3. NEW DOWNSPOUT - MATCH EXISTING
4. 3" COUPLER
5. ADS DRAIN PIPE T 3"
6. 1½" PERFORATED DRAIN PIPE CAP ENDS
7. ALUMINUM STRAP, BENT, 3/16" THICKNESS OR GREATER
8. STORM DRAIN PIPE SUPPORT BASE
9. EXISTING CONCRETE PATH
10. ROUND GALVANIZED STEEL WATER TROUGH 6'Ø 2'DEPTH. CENTER ON EXISTING DRAINPIPE, PLACE AS PER DRAIN PIPE ATTACHMENT DETAIL. USE COUNTYLINE MODEL NUMBER, WTR62T, 390 GAL, OR APPROVED EQUAL
11. PERFORATED DRAINAGE PIPE, 1½", WRAPPED IN FILTER FABRIC
12. DRAINAGE OUTLET, WITH BALL VALVE. INSTALL WITH GASKET, OR O-RING, TO PREVENT LEAKAGE.
13. EVENLY EXPOSE APPROX. 50% OF PLANTER TO NATIVE SOIL TO ALLOW FOR DRAINAGE
14. AMENDED EXISTING SOIL FROM SITE STOCKPILE. 12" DEPTH
15. ½" TO 3" DRAINROCK, WRAPPED IN FILTER FABRIC. 6" DEPTH
16. EXISTING ASPHALT SURFACE
17. WATER QUALITY TEST PIPE. TO EXTEND 1' BELOW EXISTING SURFACE
18. ROUND BENT U-BOLT TO SUPPORT PIPE
19. SUPPORTS FOR 3" DRAINAGE PIPING. COORDINATE OPTIONS WITH LANDSCAPE ARCHITECT
20. ½" GALVANIZED CARRIAGE BOLTS. NUTS ON INSIDE OF TANK TO RESTRICT VANDALISM



TROUGH - PLAN VIEW
SCALE: 1/2" = 1'-0"

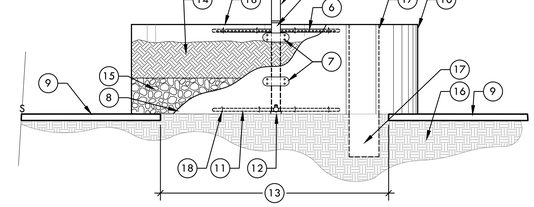
TROUGH - SECTION / ELEVATION VIEW
SCALE: 1/2" = 1'-0"

DRAIN PIPE ATTACHMENT
SCALE: 1-1/2" = 1'-0"

4 L-10.0 ROOF WATER FILTRATION TROUGH - RECTANGULAR

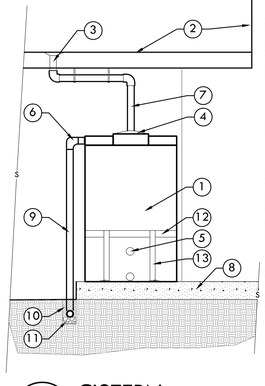
SCALE: 1/2" = 1'-0"

1. EXISTING ROOF
2. EXISTING DOWNSPOUT - 3" GALVANIZED PIPE - REMOVE WHERE SHOWN. CAP AT SIDEWALK
3. NEW DOWNSPOUT - MATCH EXISTING
4. 3" COUPLER
5. ADS DRAIN PIPE T 3"
6. 1½" PERFORATED DRAIN PIPE CAP ENDS
7. ALUMINUM STRAP, BENT, 3/16" THICKNESS OR GREATER. REFER TO DRAIN PIPE ATTACHMENT DETAIL IN DETAIL 5/L/10.0
8. STORM DRAIN PIPE SUPPORT BASE
9. EXISTING CONCRETE/ ASPHALT PATH PER PLAN
10. OVAL GALVANIZED STEEL WATER TROUGH, 2'W X 6'L X 2'H. PLACE TROUGH SO THAT ROOF DRAINAGE PIPE IS ATTACHED STRAIGHT DOWN TO FLAT WALL OF TROUGH, UNLESS OTHERWISE NOTED. USE COUNTYLINE MODEL NUMBER WT226T, 169 GAL, OR APPROVED EQUAL
11. PERFORATED DRAINAGE PIPE, 1½", WRAPPED IN FILTER FABRIC
12. DRAINAGE OUTLET, WITH BALL VALVE. INSTALL WITH GASKET, OR O-RING, TO PREVENT LEAKAGE.
13. OPEN 4'-6" X 6'-6" HOLE THROUGH EXISTING ASPHALT AND/OR CONCRETE TO ALLOW DRAINAGE INTO EXISTING NATIVE SOIL
14. AMENDED EXISTING SOIL FROM SITE STOCKPILE. 12" DEPTH
15. 1 ½ " TO 3" DRAINROCK WRAPPED IN FILTER FABRIC. 6" DEPTH
16. EXISTING NATIVE SOIL
17. WATER QUALITY TEST PIPE. TO EXTEND 1' BELOW EXISTING SURFACE
18. SUPPORTS FOR 1½" DRAINAGE PIPING. U-BOLT OR APPROVED OTHER



5 L-10.0 ROOF WATER FILTRATION TROUGH - CIRCULAR

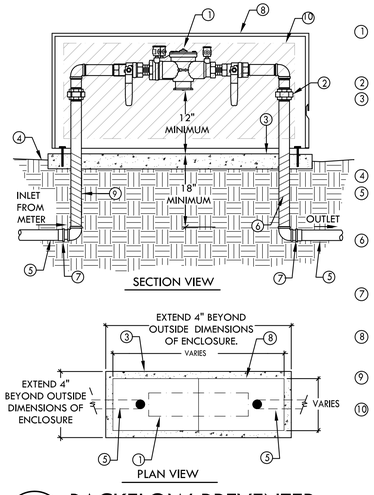
SCALE: 1/2" = 1'-0"



1. 500 GALLON POLY-MART RAIN HARVESTING TANK. SKU PM500RH. RAINHARVEST.COM. CALL 800-654-9283 COLOR: DARK BLUE
2. ROOF EDGE
3. EXISTING ROOF DRAIN
4. 16" RAIN HARVESTING LID. POLY-MART.COM PART #: RHLID16
5. LOCKABLE METAL HOSE BIBB VALVE
6. TANK OVERFLOW KIT. POLY-MART PART #TAT098
7. 3" PVC DIVERSION TUBING. SECURE TO BUILDING TO HAVE A MAXIMUM OF 3" SPACE FROM CEILING. PLUM TO ROOF DOWNSPOUNT, AND TANK LID.
8. EXISTING CONCRETE CURB. PLACE TANK 4" FROM EDGE OF CURB, AND MIN 15" FROM BUILDING WALL
9. 4" PVC DRAINAGE PIPE
10. TRENCH TO OUTFLOW AREA. (SEE DETAIL 1/L-10.0)
11. 3" CISTERN OUTFLOW DRAIN. PIPE INSTALL PER LATERAL LINE SHOWN IN DETAIL 1/L-10.2
12. 3" MIN STEEL STRAP TO WRAP AROUND TANK. MINIMUM 24" OFF OF GROUND
13. 3" MIN GALVANIZED STEEL STRAPS (X4 MINIMUM), WRAPPED AROUND STEEL WRAP, AND BOLTED TO TO THE GROUND, WITH ½" GALVANIZED CONCRETE SCREW. DISTRIBUTE STRAPS EVENLY AROUND TANK

6 L-10.0 CISTERN

SCALE: NTS



1. REDUCED BACKFLOW PREVENTER, WILKINS 975XL OR APPROVED EQUAL (SIZE PER PLANS)
2. UNION (TYPICAL)
3. 4" CONCRETE PAD: SET 2" ABOVE FINISH GRADE IN GROUNDCOVER OR DECOMPOSED GRANITE; 1" ABOVE FINISH GRADE IN TURF.
4. FINISH GRADE
5. PVC SCHEDULE 40 OR CLASS 315 MAINLINE, SIZE AND TYPE PER PLAN
6. WRAP ALL BURIED GALVANIZED WITH 20MIL CORROSION PROTECTION TAPE.
7. PVC SCHEDULE 40 ADAPTER/BUSHING (MIPT X SLIP).
8. STRONG BOX ENCLOSURE; SIZE AND MODEL PER PLAN
9. SCHEDULE 40 GALVANIZED PIPE AND FITTINGS
10. INSTALL WITH INSULATED BACKFLOW BLANKET; SIZE AS REQUIRED.

7 L-10.0 BACKFLOW PREVENTER

SCALE: NTS

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309 WALL STREET
CHICO, CA 95928
(530) 899-1616
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LICENSE

REGISTERED LANDSCAPE ARCHITECT GREG MELTON 4327 EXP. 11-17 STATE OF CALIFORNIA

CONSULTANT

CLIENT

CHICO UNIFIED SCHOOL DISTRICT
1163 E. 7TH STREET
CHICO, CA 95928

PROJECT

DROPS: PARKVIEW ELEMENTARY PLAY AREA

SHEET TITLE

CONSTRUCTION PLAN AND DETAILS

DATES

NO.	DESCRIPTION	DATE
1.	BID DOCUMENTS	10/20/2016
2.		
3.		
4.		
5.		
6.		
7.		
8.		

PLOT DATE: 11/04/2016

PROJECT NUMBERS

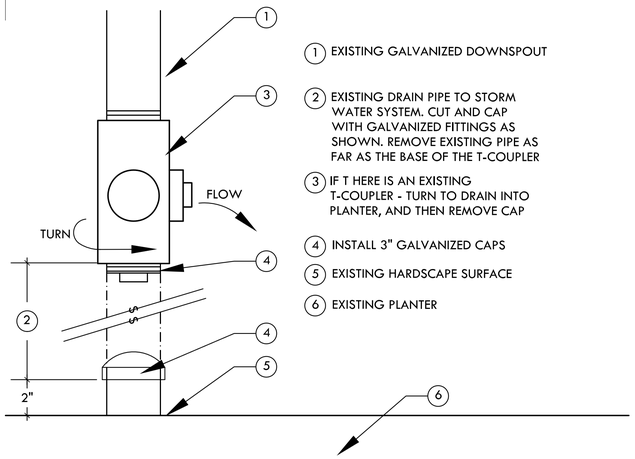
MELTON DESIGN GROUP: 2265
CONSULTANT PROJECT #:

SHEET NUMBER

L-10.0

SHEET 11 OF 14

Plot Date: November 04, 2016 - 2:55 pm File Name: G:\MDG(2200-2299)\2265 CUSD DROPS\2265 CAD\2265 CDs\e 2265 CD - Details.dwg

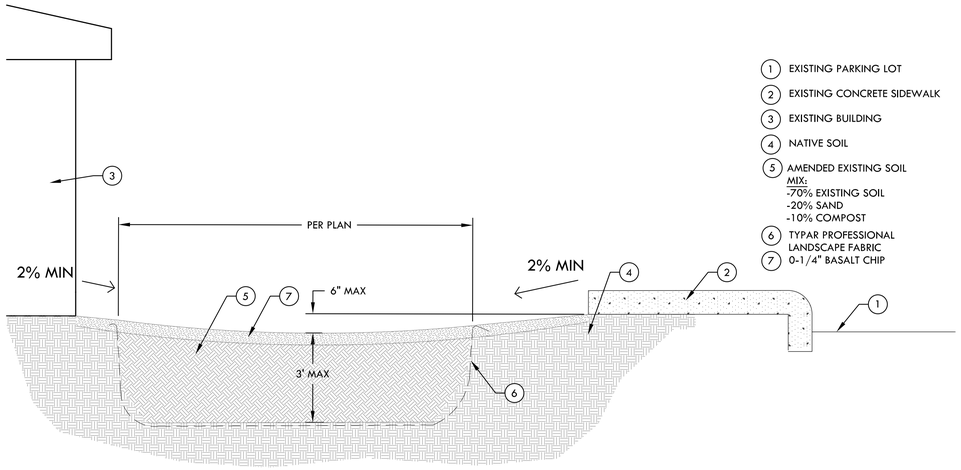


1. EXISTING GALVANIZED DOWNSPOUT
2. EXISTING DRAIN PIPE TO STORM WATER SYSTEM. CUT AND CAP WITH GALVANIZED FITTINGS AS SHOWN. REMOVE EXISTING PIPE AS FAR AS THE BASE OF THE T-COUPLER
3. IF T HERE IS AN EXISTING T-COUPLER - TURN TO DRAIN INTO PLANTER, AND THEN REMOVE CAP
4. INSTALL 3" GALVANIZED CAPS
5. EXISTING HARDSCAPE SURFACE
6. EXISTING PLANTER

1 L-10.1 EXISTING DOWNSPOUT - DRAIN PIPE CAP

* ADD ALTERNATE

SCALE: 3" = 1'-0"



1. EXISTING PARKING LOT
2. EXISTING CONCRETE SIDEWALK
3. EXISTING BUILDING
4. NATIVE SOIL
5. AMENDED EXISTING SOIL
   MIX:
   -70% EXISTING SOIL
   -20% SAND
   -10% COMPOST
6. TYPAR PROFESSIONAL LANDSCAPE FABRIC
7. 0-1/4" BASALT CHIP

2 L-10.1 BIOSWALE SECTION - PARKVIEW ELEMENTARY ENTRY

SCALE: 1/4" = 1'-0"

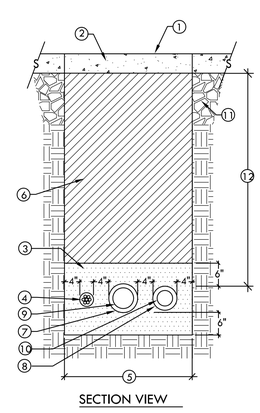
PVC SCHEDULE 40 PIPE SIZE CHART (MINIMUM SIZE UNLESS OTHERWISE NOTED PER PLAN)

PVC SCHEDULE 40 PIPE SIZE	MAXIMUM ALLOWABLE FLOW IN GALLONS PER MINUTE (GPM)	PRESSURE LOSS PER 100 FEET OF PIPE IN POUNDS PER SQUARE INCH (PSI)	VELOCITY IN FEET PER SECOND (fps)
3/4"	6.0 GPM	3.02 PSI LOSS/100'	3.60fps
1"	11.0 GPM	2.86 PSI LOSS/100'	4.07fps
1 1/4"	18.0 GPM	1.88 PSI LOSS/100'	3.85fps
1 1/2"	26.0 GPM	1.75 PSI LOSS/100'	4.09fps
2"	40.0 GPM	1.15 PSI LOSS/100'	3.81fps
2 1/2"	60.0 GPM	1.03 PSI LOSS/100'	4.01fps
3"	90.0 GPM	0.76 PSI LOSS/100'	3.90fps
4"	150.0 GPM	0.52 PSI LOSS/100'	3.77fps

NOTE:
1. ACTUAL PIPE SIZE MAY VARY IN ACCORDANCE WITH VARYING SITE CONDITIONS, LENGTH OF RUN AND ELEVATION CHANGES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE OPTIMUM PIPE SIZING.
2. THE VELOCITY OF WATER FLOW (FEET PER SECOND) THROUGH THE LATERAL LINE SHALL NOT EXCEED 5fps.
3. MAIN PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALL OUT SHALL BE 1" (MAIN PIPE SIZE DIAMETER NOT TO BE LESS THAN 1"). LATERAL PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE CALL OUT SHALL BE 3/4" (LATERAL PIPE SIZE DIAMETER NOT TO BE LESS THAN 3/4")

3 L-10.1 IRRIGATION PIPE

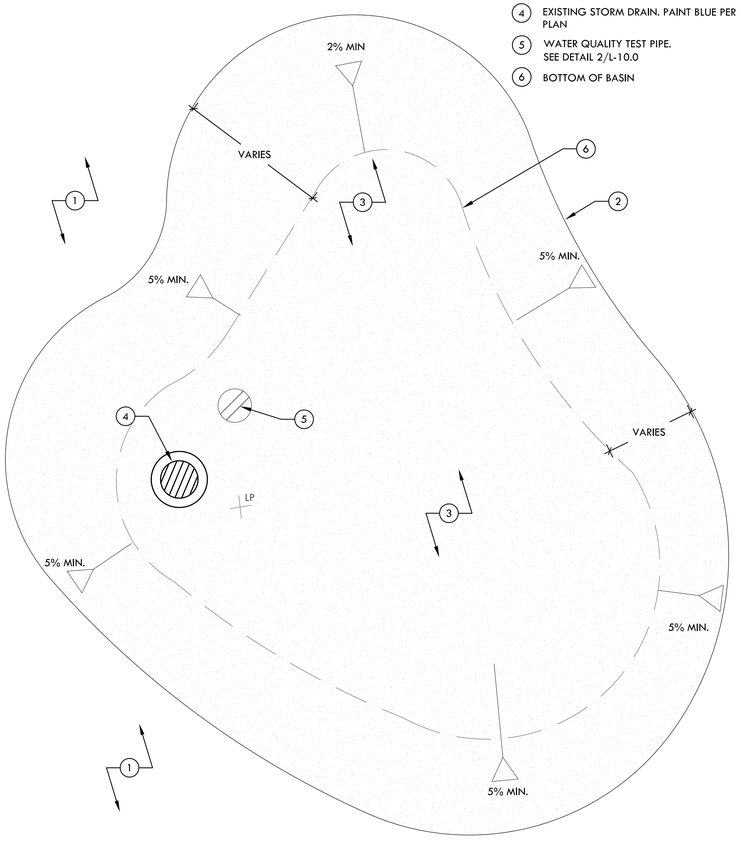
SCALE: N/A



SECTION VIEW

1. FINISH GRADE
2. VEHICULAR OR PEDESTRIAN PAVING SAW CUT AND REPLACE WHERE SHOWN. MATCH EXISTING MATERIAL AND GRADE.
3. SAND BACKFILL WITH 6" COVER ABOVE PIPE AND 6" BELOW PIPE
4. ELECTRIC WIRES IN GRAY SCHEDULE 40 PVC CONDUIT. MINIMUM SIZE - 2" OR AS NEEDED
5. WIDTH AS NEEDED TO PROVIDE A MINIMUM 4" HORIZONTAL CLEARANCE BETWEEN PIPES.
6. TRENCH BACKFILL:
   BENEATH VEHICULAR PAVEMENT:
   -COMPACTED CLASS 11 AGGREGATE DEPTH AND COMPACTION PER ENGINEER'S PLANS
   BENEATH NON-VEHICULAR PAVEMENT:
   -NATIVE SITE SOIL, COMPACTED TO ELIMINATE SETTLING, 95% RELATIVE DENSITY
7. MAINLINE SLEEVING- PVC SCHEDULE 40 PIPE, SIZE PER PLAN
8. LATERAL SLEEVING - PVC SCHEDULE 40 PIPE, SIZE PER PLAN
9. PVC SCHEDULE 40 OR CLASS 315 MAINLINE
10. PVC SCHEDULE 40 LATERAL LINE
11. PAVEMENT SUBGRADE- AS PER ENGINEER'S PLANS
12. SLEEVING, 24" MINIMUM COVER BENEATH PAVING

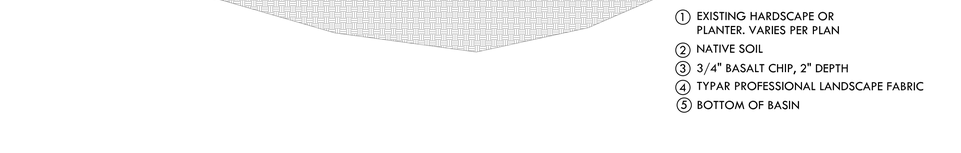
NOTE:
1. SIDES OF TRENCH WILL BE DUG SQUARE AND CLEAN OF ALL SHARP MATERIAL.



1. EXISTING ASPHALT - RETAIN AND PROTECT
2. EDGE OF SWALE AND EXCAVATION. SAW CUT INTO EXISTING ASPHALT. COVER WITH BASALT CHIP SO THAT FINISH GRADE IS ½" BELOW EDGE
3. LOW IMPACT DEVELOPMENT (LID) AREA
4. EXISTING STORM DRAIN. PAINT BLUE PER PLAN
5. WATER QUALITY TEST PIPE. SEE DETAIL 2/L-10.0
6. BOTTOM OF BASIN

4 L-10.1 RAIN GARDEN PLAN VIEW (TYPICAL)

SCALE: 1/4" = 1'-0"



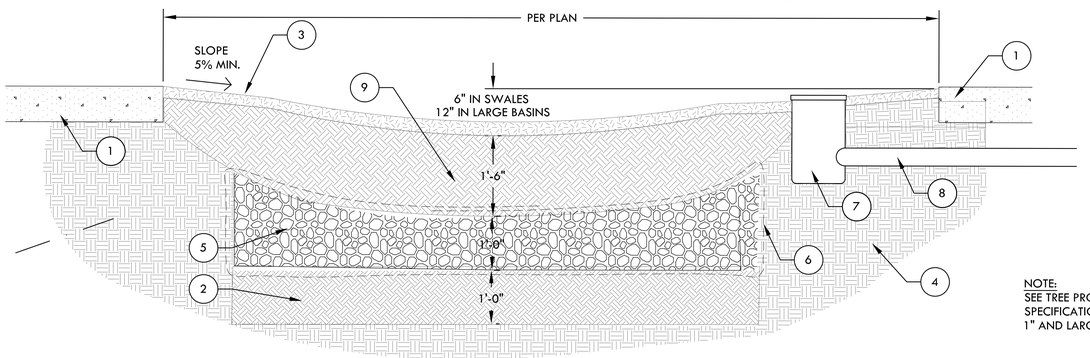
1. EXISTING HARDSCAPE OR PLANTER. VARIES PER PLAN
2. NATIVE SOIL
3. 3/4" BASALT CHIP, 2" DEPTH
4. TYPAR PROFESSIONAL LANDSCAPE FABRIC
5. BOTTOM OF BASIN

5 L-10.1 DRAINAGE SWALE

SCALE: NTS

6 L-10.1 TRENCHING BENEATH PAVEMENT

SCALE: 1/2" = 1'-0"



NOTE:
SEE TREE PROTECTION NOTES IN BOOK FORM SPECIFICATIONS. RETAIN EXISTING TREE ROOTS 1" AND LARGER IN DIAMTER

1. EXISTING ASPHALT, CONCRETE, OR NATIVE SOIL
2. SCARIFY TO LOOSEN SOIL
3. CRUSHED BASALT CHIP, OR BARK MULCH, PER PLAN
4. NATIVE SOIL
5. 1½" TO 3" DRAINROCK WRAPPED IN FILTER FABRIC, MINIMUM 12" DEPTH
6. TYPAR PROFESSIONAL LANDSCAPE FABRIC
7. EXISTING STORM DRAIN INLET. PAINT BLUE PER PLAN
8. EXISTING STORM DRAIN SYSTEM. RETAIN AND PROTECT
9. AMENDED EXISTING SOIL
   MIX:
   -70% EXISTING SOIL
   -20% SAND
   -10% COMPOST

7 L-10.1 RAIN GARDEN - L.I.D. AREA

SCALE: 3/4" = 1'-0"

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1163 E. 7TH STREET
CHICO, CA 95928

PROJECT

DROPS: CUSD

SHEET TITLE

CONSTRUCTION DETAILS

DATES

NO.	DESCRIPTION	DATE
1.	BID DOCUMENTS	10/20/2016
2.		
3.		
4.		
5.		
6.		
7.		
8.		

PLOT DATE: 11/04/2016

PROJECT NUMBERS

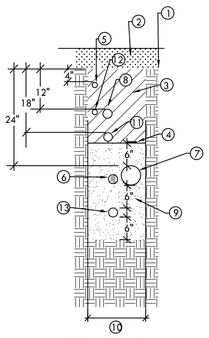
MELTON DESIGN GROUP: 2265
CONSULTANT PROJECT #:

SHEET NUMBER

L-10.1

SHEET 12 OF 14

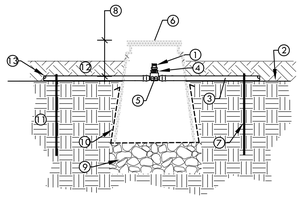
Plot Date: November 04, 2016 - 2:56 pm File Name: G:\MDG(2200-2299)\2265 CUSD DROPS\2265 CAD\2265 CDs\e 2265 CD - Details.dwg



1. FINISH GRADE
2. 3" MULCH LAYER PER PLANTING PLAN
3. APPROVED BACKFILL AS PER PLANTING PLAN
4. MAIN LINE DETECTION TAPE; T.CHRISTY MODEL TA-DT-BI OR APPROVED EQUAL. INSTALL ABOVE IRRIGATION MAIN LINE PIPE PER MANUFACTURER'S SPECIFICATIONS.
5. SHRUB DRIPPERLINE; INSTALL 4" BELOW FINISH GRADE AND STAKE EVERY THREE (3) FEET.
6. PVC SCHEDULE 40 CONDUIT WITH REMOTE CONTROL VALVE WIRE; SIZE PER PLAN
7. PVC SCHEDULE 40 OR CLASS 315 MAIN LINE. 24" MINIMUM COVER
8. PVC SUPPLY AND EXHAUST MANIFOLDS; SIZE AND TYPE PER PLAN. 12" MINIMUM COVER
9. SAND BACKFILL; MINIMUM 6" ABOVE AND BELOW MAIN LINE WITH MINIMUM 6" BACKFILL
10. WIDTH AS REQUIRED TO MAINTAIN MINIMUM 4" HORIZONTAL SEPARATION FROM PIPE TO PIPE AND PIPE TO TRENCH WALL. NO PIPE SHALL BE LAID OVER ANOTHER
11. PVC SCHEDULE 40 LATERAL. 18" MINIMUM COVER
12. TREE DRIPPERLINE; INSTALL 12" BELOW FINISH GRADE AND STAKE EVERY THREE (3) FEET.
13. POTABLE WATER LINE, SEE SPECIFICATIONS. MINIMUM 6" SAND BACKFILL BELOW PIPE

SECTION VIEW

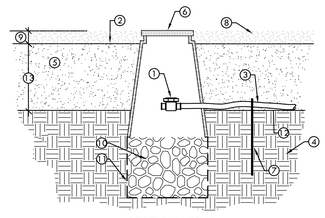
1 TRENCHING
L-10.2 SCALE: NTS



SECTION VIEW

1. 1/2" MIPT AIR/VACUUM RELIEF VALVE; PLD-AVR OR APPROVED EQUAL. CONTRACTOR SHALL FIELD LOCATE AT HIGHEST POINT OF SYSTEM. USE MULTIPLE AIR/VACUUM RELIEF VALVES AS NEEDED.
2. FINISH GRADE
3. BLANK DRIPPER LINE OR PVC SUPPLY HEADER; TYPE PER PLAN. (BLANK DRIPPER LINE SHOWN)
4. 3/4" MIPT x 1/2" FIPT REDUCER
5. INS X INS X 3/4" FIPT COMBINATION TEE, NETAFIM MODEL TL075FTEE OR APPROVED EQUAL
6. 9" ROUND PLASTIC VALVE BOX; CARSON MODEL 910 OR APPROVED EQUAL
7. SECURE PLD TUBING USING 6" SOIL STAPLES. INSTALL EVERY TWO (2) FEET
8. INSTALL VALVE BOX 2½" ABOVE FINISH GRADE IN PLANTER
9. 3/4" CRUSHED ROCK, 6" MINIMUM DEPTH
10. 1/4" GALVANIZED WIRE CLOTH
11. UNIFORMLY PREPARED SUBGRADE, SEE PLANTING SPECIFICATIONS.
12. 4" SOIL BACKFILL PER PLAN
13. INSTALL DRIPPERLINE SUBSURFACE 4" BELOW FINISH GRADE WITH 2" OF MULCH OR CRUSHED ROCK COVER PER PLAN

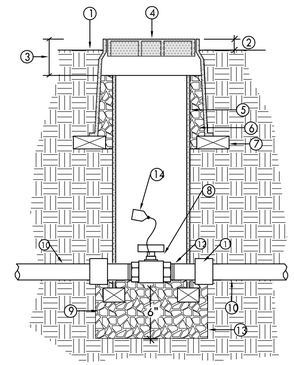
2 AIR RELIEF VALVE
L-10.2 SCALE: NTS



SECTION VIEW

1. FLUSH VALVE - SEE IRRIGATION LEGEND
2. FINISH GRADE
3. DRIP LINE TUBING PER PLAN
4. NATIVE SOIL BACKFILL
5. 4" SOIL BACKFILL PER PLAN
6. CARSON 910 VALVE BOX
7. SOIL STAPLES PER PLAN EVERY 3'
8. MULCH OR CRUSHED ROCK PER PLAN
9. INSTALL VALVE BOX 2-1/2" ABOVE PLANTER FINISH GRADE
10. 3/4" CRUSHED ROCK, 12" MINIMUM DEPTH
11. 1/4" GALVANIZED WIRE CLOTH
12. OVER EXCAVATED SUBGRADE
13. 8" TO 12" DEEP

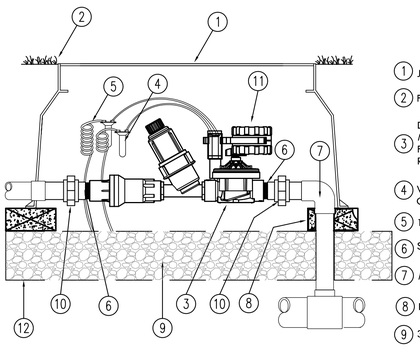
3 FLUSH VALVE
L-10.2 SCALE: NTS



SECTION VIEW

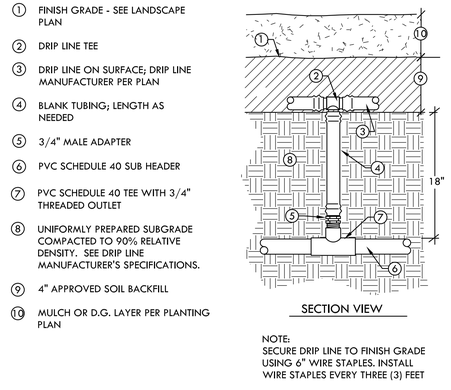
1. FINISH GRADE
2. SET TOP OF BOX ABOVE FINISH GRADE:
   1/2" IN SEED
   1-1/2" IN SOD
   2-1/2" IN PLANTER OR DECOMPOSED GRANITE.
3. ALLOW 3" BETWEEN TOP OF VALVE BOX AND PVC PIPE.
4. 10" DIAMETER PLASTIC VALVE BOX WITH U-BOLT LOCK OPTION. SEE SPECIFICATIONS.
5. 8" DIAMETER PVC SCHEDULE 40 PIPE. LENGTH AS REQUIRED.
6. 3/4" CRUSHED ROCK - 1 CU. FT.
7. (2) COMMON BRICKS FOR SUPPORT
8. THREADED PVC BALL VALVE WITH 'T' HANDLE
9. 3/4" CRUSHED ROCK, 6" MINIMUM DEPTH
10. PVC MAIN SUPPLY LINE
11. PVC COUPLER
12. PVC SCHEDULE 80 NIPPLE, T.O.E. (TYP. 2 PLCS.)
13. 1/4" GALVANIZED WIRE CLOTH
14. CHRISTY VALVE TAG; ATTACH TO VALVE STEM WITH NYLON CABLE TIE.

4 ISOLATION VALVE - THREADED - PVC
L-10.2 SCALE: NTS



1. JUMBO VALVE BOX
2. FINISH GRADE
3. DRIP ZONE KIT MODEL ICZ-101 WITH FILTER (TIP 45 DEGREES) REGULATOR 25 PSI
4. WATERPROOF CONNECTORS (2)
5. 18-24" COILED WIRE
6. SCH 80 T.O.E. NIPPLE
7. MAIN LINE PIPE & FITTINGS
8. BRICK SUPPORTS (4)
9. 3/4" MINUS WASHED GRAVEL
10. PVC SLIP UNIONS (2)
11. BATTERY OPERATED CONTROLLER PER PLAN
12. GALVANIZED WIRE CLOTH

5 REMOTE CONTROL DRIP ZONE
L-10.2 SCALE: NTS

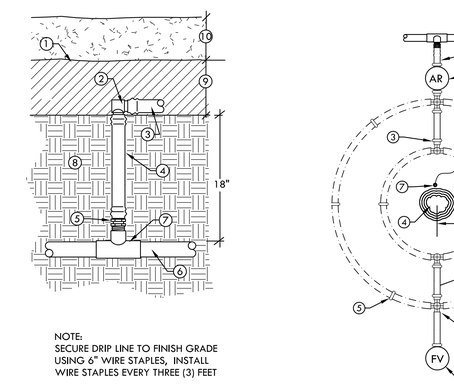


1. FINISH GRADE - SEE LANDSCAPE PLAN
2. DRIP LINE TEE
3. DRIP LINE ON SURFACE; DRIP LINE MANUFACTURER PER PLAN
4. BLANK TUBING; LENGTH AS NEEDED
5. 3/4" MALE ADAPTER
6. PVC SCHEDULE 40 SUB HEADER
7. PVC SCHEDULE 40 TEE WITH 3/4" THREADED OUTLET
8. UNIFORMLY PREPARED SUBGRADE COMPACTED TO 90% RELATIVE DENSITY. SEE DRIP LINE MANUFACTURER'S SPECIFICATIONS.
9. 4" APPROVED SOIL BACKFILL
10. MULCH OR D.G. LAYER PER PLANTING PLAN

SECTION VIEW

NOTE:
SECURE DRIP LINE TO FINISH GRADE USING 6" WIRE STAPLES. INSTALL WIRE STAPLES EVERY THREE (3) FEET

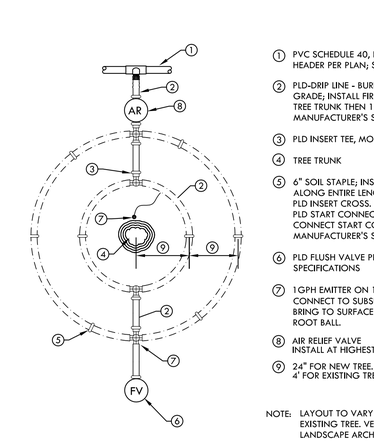
6 DRIP LINE START CONNECTOR - TEE
L-10.2 SCALE: NTS



1. FINISH GRADE
2. DRIP LINE ELBOW
3. DRIP LINE ON SURFACE, DRIP LINE MANUFACTURER PER PLAN
4. BLANK TUBING; LENGTH AS NEEDED
5. 3/4" MALE ADAPTER
6. PVC SCHEDULE 40 SUB HEADER
7. PVC SCHEDULE 40 TEE WITH 3/4" THREADED OUTLET
8. UNIFORMLY PREPARED SUBGRADE COMPACTED PER PLAN RELATIVE DENSITY. SEE DRIP LINE MANUFACTURER'S SPECIFICATIONS.
9. 4" SOIL BACKFILL PER PLAN
10. MULCH D.G. LAYER PER PLANTING PLAN

NOTE:
SECURE DRIP LINE TO FINISH GRADE USING 6" WIRE STAPLES, INSTALL WIRE STAPLES EVERY THREE (3) FEET

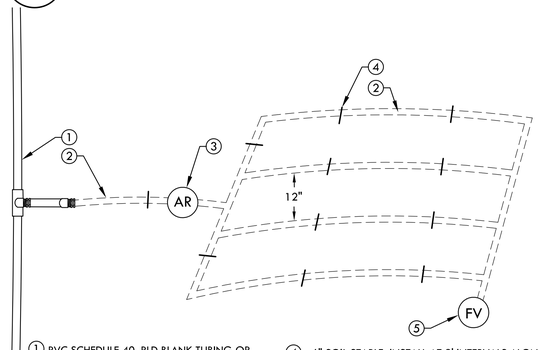
7 DRIP LINE START CONNECTOR - ELBOW
L-10.2 SCALE: NTS



1. PVC SCHEDULE 40, PLD BLANK TUBING OR TECHLINE SUPPLY HEADER PER PLAN; SIZE PER PLAN
2. PLD-DRIP LINE - BURIED 12" BELOW FINISH GRADE; INSTALL FIRST LOOP 18" MAX. FROM TREE TRUNK THEN 18" ON CENTER. SEE MANUFACTURER'S SPECIFICATIONS
3. PLD INSERT TEE, MODEL TLTEE
4. TREE TRUNK
5. 6" SOIL STAPLE; INSTALL AT 3' INTERVALS ALONG ENTIRE LENGTH OF DRIP LINE PLD INSERT CROSS. PLD AIR RELIEF VALVE PLD START CONNECTOR; BARB X THREAD. CONNECT START CONNECTOR TO FITTING PER MANUFACTURER'S SPECIFICATIONS
6. PLD FLUSH VALVE PER MANUFACTURER'S SPECIFICATIONS
7. 1GPH EMITTER ON 1/4" DISTRIBUTION TUBING; CONNECT TO SUBSURFACE DRIPPERLINE AND BRING TO SURFACE APPROXIMATE. 12" FROM ROOT BALL.
8. AIR RELIEF VALVE INSTALL AT HIGHEST POINT
9. 24" FOR NEW TREE. 4' FOR EXISTING TREE

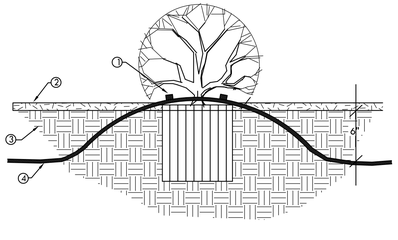
NOTE: LAYOUT TO VARY PER SIZE OF EXISTING TREE. VERIFY IN FIELD WITH LANDSCAPE ARCHITECT

8 TREE IRRIGATION
L-10.2 SCALE: NTS



1. PVC SCHEDULE 40, PLD BLANK TUBING OR TECHLINE SUPPLY HEADER PER PLAN; SIZE PER PLAN
2. RAINBIRD XFS-09-12, AND SPACE 12" APART - BURIED 4" BELOW FINISHED GRADE. RUN 1 LINE ON EACH SIDE OF SHRUB. LOOP AROUND TREE SEE PLANTING PLAN PER DETAIL 8/L10.2. FOR PLANT LAYOUT SEE MANUFACTURER'S SPECIFICATIONS
3. AIR RELIEF VALVE INSTALL AT HIGHEST POINT IN SYSTEM
4. 6" SOIL STAPLE; INSTALL AT 3' INTERVALS ALONG ENTIRE LENGTH OF DRIP LINE CONNECT START CONNECTOR TO FITTING PER MANUFACTURER'S SPECIFICATIONS
5. PLD FLUSH VALVE PER MANUFACTURER'S IN VALVE BOX. PER MANUFACTURER'S SPECIFICATIONS

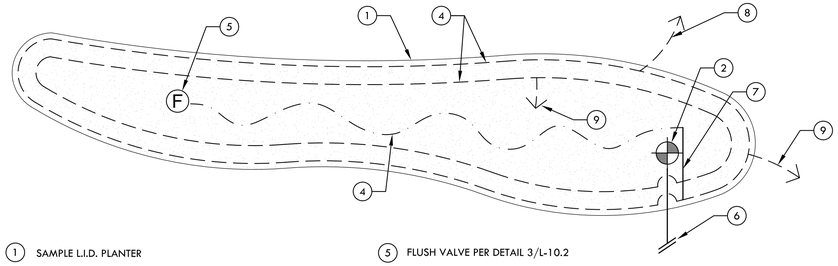
9 DRIP LINE DETAIL
L-10.2 SCALE: NTS



SECTION VIEW

1. EMITTER; RAINBIRD XERI-BUG XB-10PC OR APPROVED EQUAL 2 PER SHRUB
2. BARK MULCH OR GRANITE CHIP
3. FINISH GRADE
4. ½" FLEX TUBING (36" MAXIMUM LENGTH) OR APPROVED EQUAL. INSTALL GALVANIZED TIE-DOWN STAKES AT EVERY EMITTER OUTLET.

10 SHRUB AND TREE EMITTERS
L-10.2 SCALE: NTS



1. SAMPLE L.I.D. PLANTER
2. REMOTE CONTROL VALVE AND/OR PVC LATERAL PER PLAN
3. IN LINE EMITTER IRRGATION FOR PLUGS.ONE LINE ON EACH SIDE OF TRIANGULAR SPACED ROW OF PLUGS. SEE DETAIL 9/L-10.2
4. SHRUB EMITTER LINE. FLEX LINE WITH BARBED DRIP EMITTERS. SEE DETAIL 10/L-10.2
5. FLUSH VALVE PER DETAIL 3/L-10.2
6. VALVE POINT OF CONNECTION PER PLANS
7. LATERAL LINE PER DETAIL 9/L-10.2
8. TO IRRIGATE SHRUBS OUTSIDE OF LID PLANTER AREA
9. IRRIGATE TREES WHERE SHOWN ON NEW TREES OUTSIDE OF LID AREA, PER DETAIL 8/L10.2

11 DRIP IRRIGATION LAYOUT
L-10.2 SCALE: NTS

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CHICO UNIFIED SCHOOL DISTRICT
1163 E. 7TH STREET
CHICO, CA 95928

PROJECT

DROPS: CUSD

SHEET TITLE

CONSTRUCTION DETAILS

DATES

NO.	DESCRIPTION	DATE
1.	BID DOCUMENTS	10/20/2016
2.		
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PLOT DATE: 11/04/2016

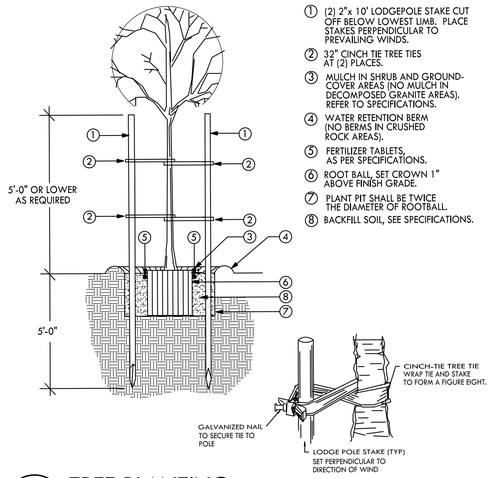
PROJECT NUMBERS

MELTON DESIGN GROUP: 2265
CONSULTANT PROJECT #:

SHEET NUMBER

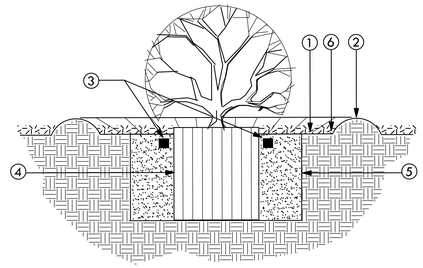
L-10.2

SHEET 13 OF 14



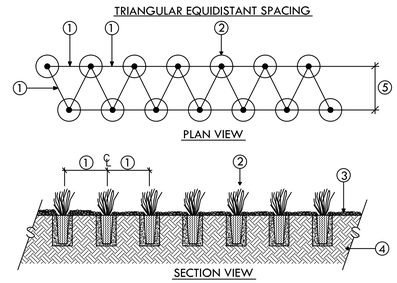
1. (2) 2"x 10' LODGEPOLE STAKE CUT OFF BELOW LOWEST LIMB. PLACE STAKES PERPENDICULAR TO PREVAILING WINDS.
2. 32" CINCH TIE TREE TIES AT (2) PLACES.
3. MULCH IN SHRUB AND GROUND-COVER AREAS (NO MULCH IN DECOMPOSED GRANITE AREAS). REFER TO SPECIFICATIONS.
4. WATER RETENTION BERM (NO BERMS IN CRUSHED ROCK AREAS).
5. FERTILIZER TABLETS, AS PER SPECIFICATIONS.
6. ROOT BALL, SET CROWN 1" ABOVE FINISH GRADE.
7. PLANT PIT SHALL BE TWICE THE DIAMETER OF ROOTBALL.
8. BACKFILL SOIL, SEE SPECIFICATIONS.

1 TREE PLANTING
1 / L-10.3
SCALE: NTS



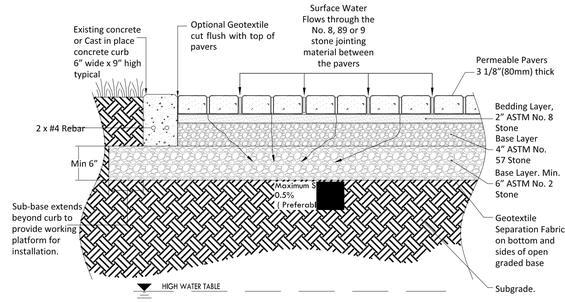
1. BARK MULCH, OR CRUSHED ROCK PER PLAN
2. WATER RETENTION BERM UNLESS SHRUB IS LOCATED IN CRUSHED ROCK AREA. PROVIDE POSITIVE DRAINAGE AWAY FROM ROOTBALL.
3. FERTILIZER TABLETS PER SPECIFICATIONS.
4. ROOT BALL, SET CROWN 1" ABOVE GRADE.
5. PLANTING PIT TO BE TWICE THE DIAMETER OF ROOTBALL. REFER TO SPECIFICATIONS FOR BACKFILL MIX.
6. FINISH GROUND COVER GRADE.

2 SHRUB PLANTING
2 / L-10.3
SCALE: NTS



1. EQUAL SPACING BETWEEN PLANTINGS. NOTE: SEE PLANS FOR SPACING DETAILS.
2. PLUG. SEE PLANTING PLAN AND PLANT LIST.
3. FINISH GRADE W/ 2" TOP DRESSING PER PLAN. SEE SPECIFICATIONS.
4. NATIVE SOIL, SEE PLANS AND NOTES FOR SOIL PREPARATION.
5. ROW SPACING = PLANT SPACING X 0.86

3 PLUG PLANTING
3 / L-10.3
SCALE: NTS



4 PERMEABLE PAVER - AQUA ROC
4 / L-10.3
SCALE: NTS

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SHEET TITLE

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PLOT DATE: 11/04/2016

PROJECT NUMBERS

MELTON DESIGN GROUP: 2265
CONSULTANT PROJECT #:

SHEET NUMBER

L-10.3

SHEET 14 OF 14

Plot Date: November 04, 2016 - 2:57 pm File Name: G:\MDG(2200-2299)\2265 CUSD DROPS\2265 CAD\2265 CDs\e 2265 CD - Details.dwg