

PLANS FOR THE CONSTRUCTION OF: CHICO UNIFIED SCHOOL DISTRICT D.R.O.P.S. CHICO, CALIFORNIA



309 WALL STREET
CHICO, CA 95928
(530) 899-1616
www.meltondg.com

LICENSE



CONSULTANT

CLIENT

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

PROJECT

WEST
CUSD
DROPS

SHEET TITLE

TITLE
SHEET

DATES

NO.	DESCRIPTION	DATE
1.	BID DOCUMENTS	10/20/2016
2.	BID DOCUMENTS	1/12/2017
3.		
4.		
5.		
6.		
7.		
8.		

PLOT DATE: 1/12/2017

PROJECT NUMBERS

MELTON DESIGN GROUP: 2265
CONSULTANT PROJECT #:

SHEET NUMBER

SHEET 1 OF 16

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PREPARED FOR:



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PREPARED BY OR UNDER THE SUPERVISION OF:

GREG MELTON
RLA No. 4217

DATE 10/20/2016

ACCEPTED BY:

DATE

CHICO UNIFIED SCHOOL DISTRICT

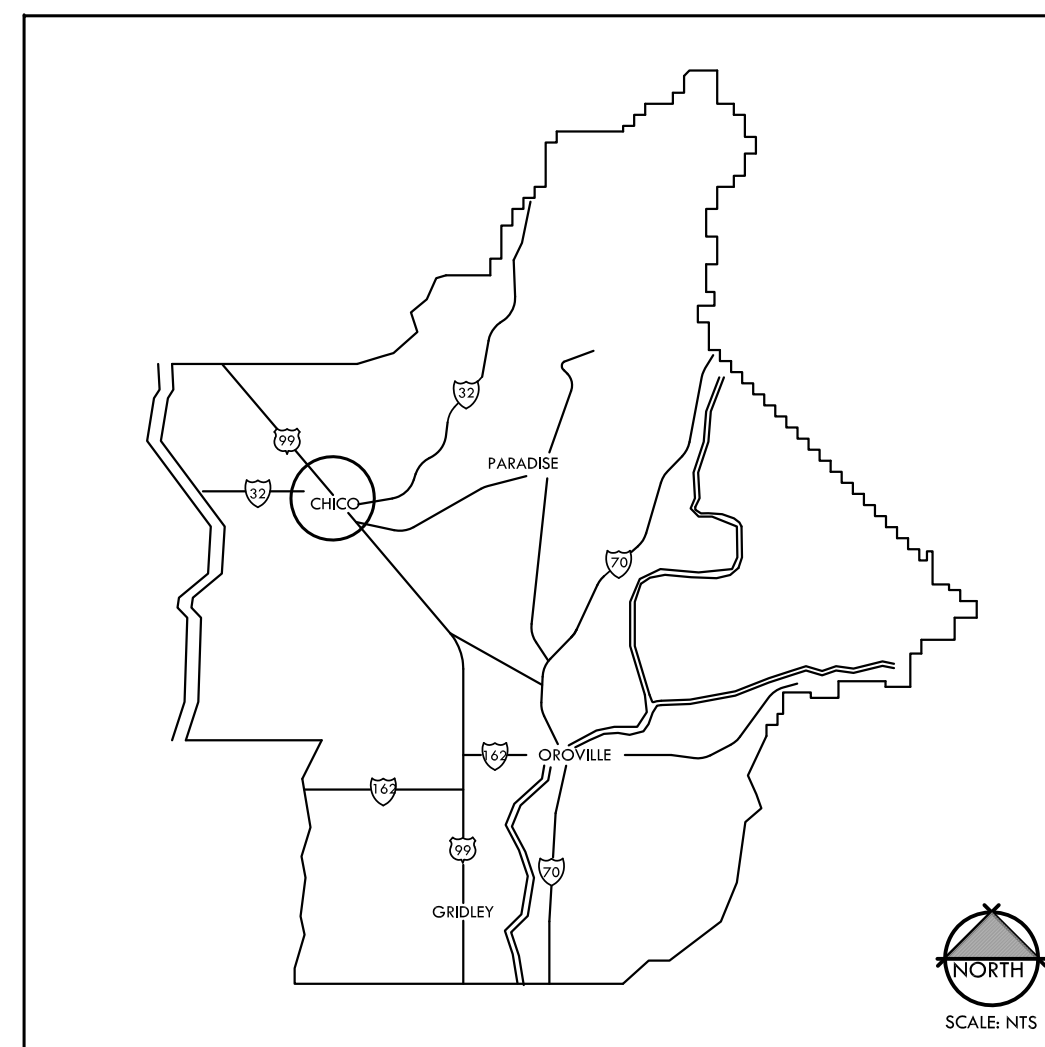
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L-1.1	PLANTING PLAN
L-2.0	CHICO JR. HIGH - 280 MEMORIAL WAY, CHICO, CA 95926 CONSTRUCTION PLAN
L-2.1	PLANTING PLAN
L-3.0	CITRUS ELEMENTARY - 1350 CITRUS AVE., CHICO, CA 95926 CONSTRUCTION PLAN
L-3.1	PLANTING PLAN
L-4.0	FAIRVIEW HIGH - 290 EAST AVE., CHICO, CA 95926 CONSTRUCTION PLAN
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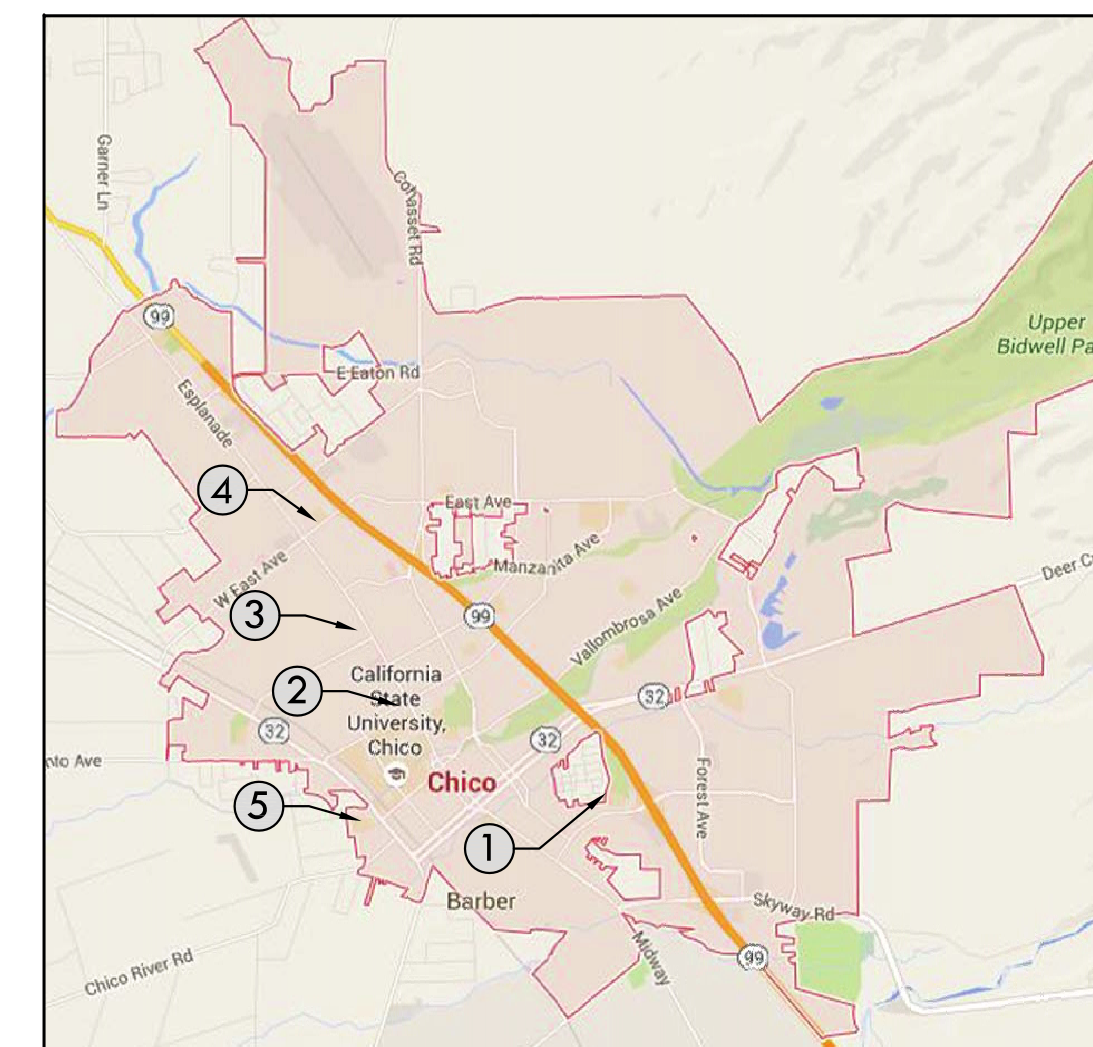
GENERAL CONSTRUCTION NOTE:

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.

KEY MAP OF BUTTE COUNTY

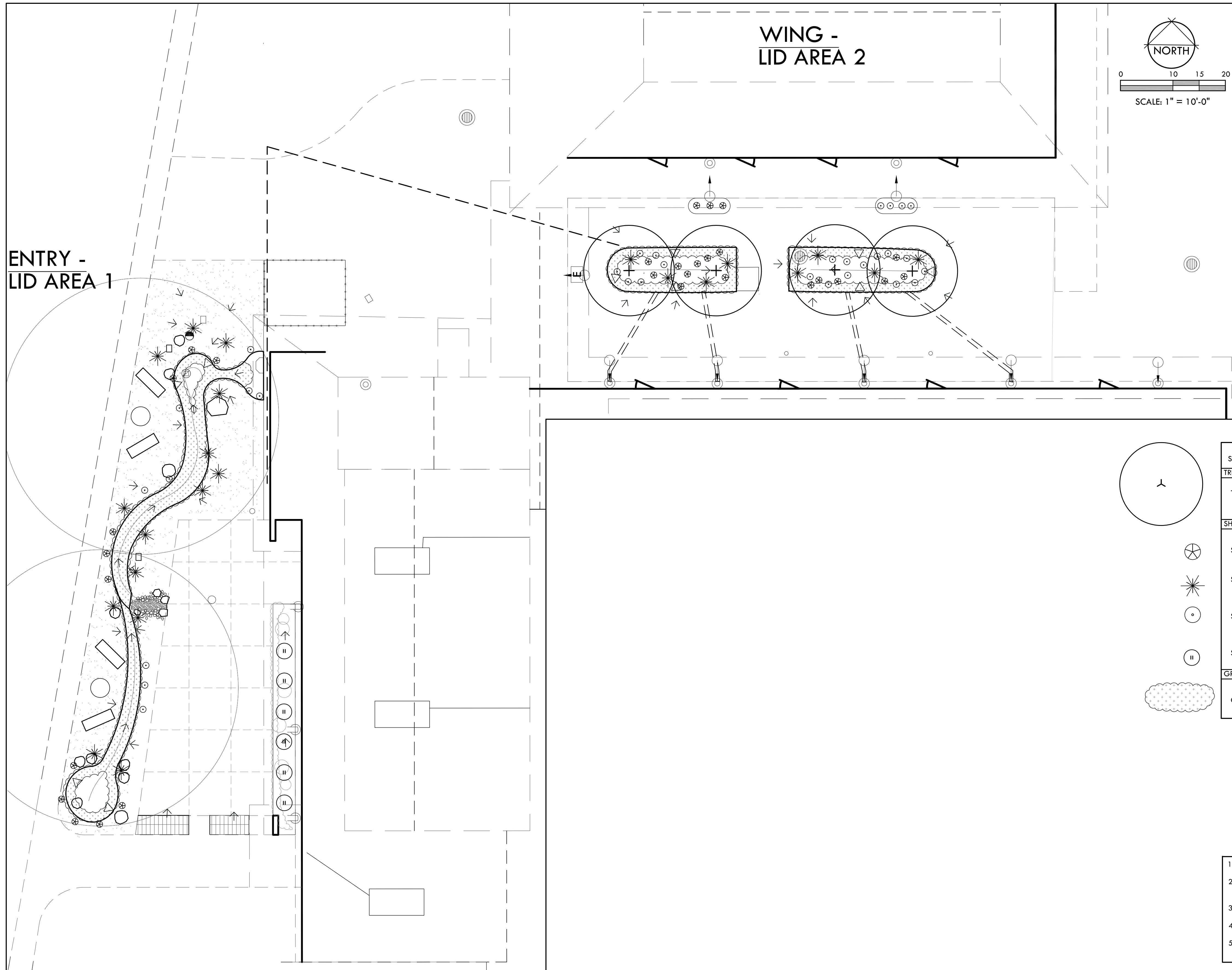


KEY MAP OF CHICO SCHOOLS

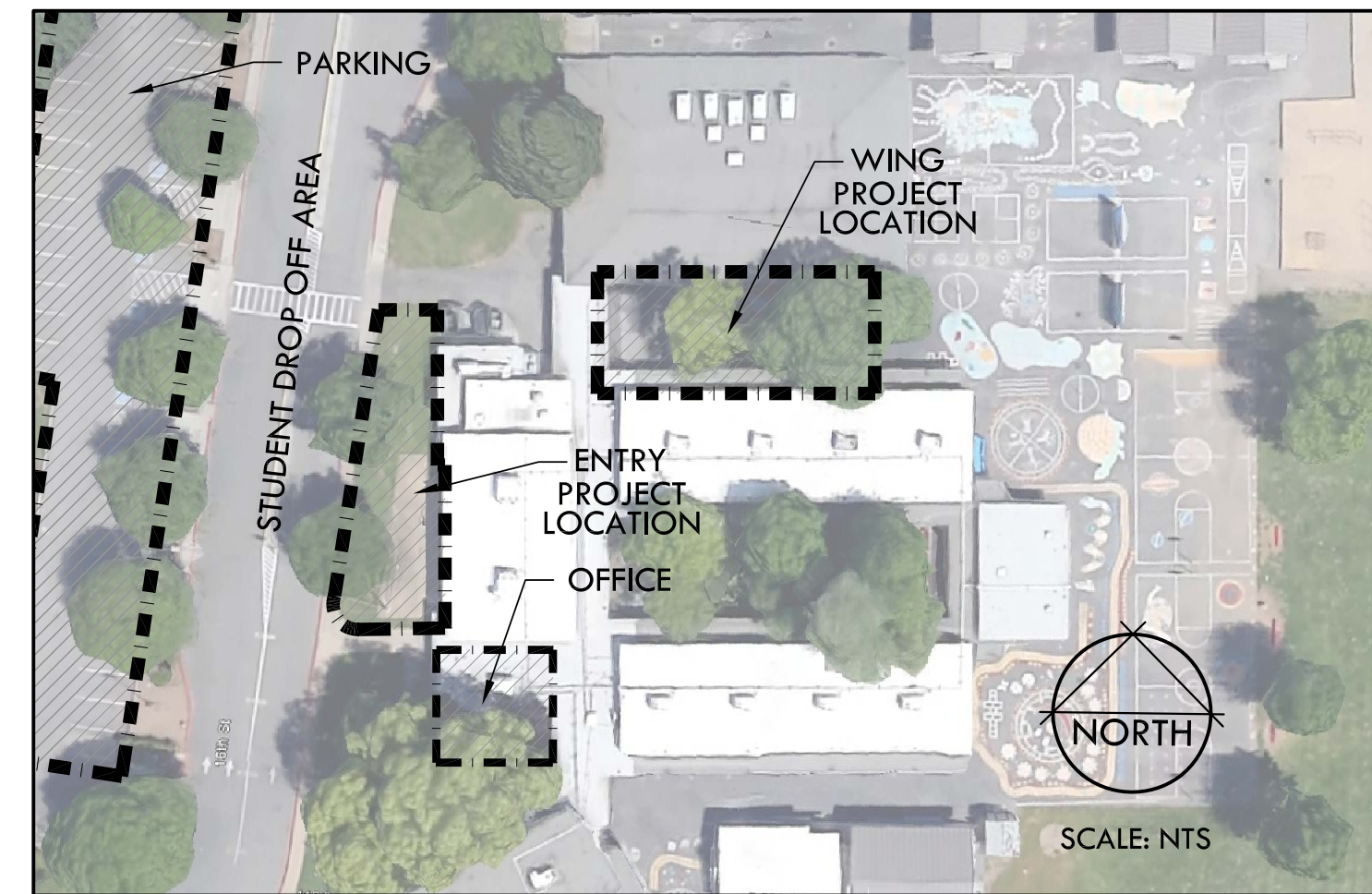


- ① CHAPMAN ELEMENTARY
- ② CHICO JR. HIGH
- ③ CITRUS ELEMENTARY
- ④ FAIRVIEW HIGH
- ⑤ ROSEDALE ELEMENTARY

Plot Date: November 04, 2016 - 3:03 pm File Name: G:\MDG(2200-2299)\2265 CUSD DROPS\2265 CAD\2265 CDs\2265 CD Chapman\2265 Chapman Plant.dwg



SITE LOCATION MAP



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.

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	3	STANDARD	M	1/L-10.3
SHRUBS						
S-1	JUNCUS PATENS BLUE RUSH	1 GAL	29		M	2/L-10.3
S-2	MUHLENBERGIA RIGENS DEER GRASS	1 GAL	22		L	2/L-10.3
S-3	CHONDROPETALUM TECTORUM SMALL CAPE RUSH	1 GAL	31		L	2/L-10.3
S-4	ASTER CHILENSIS CALIFORNIA ASTER	1 GAL	6		L	2/L-10.3
GROUND COVER						
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.

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.



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PROJECT

DROPS:
CHAPMAN
ELEMENTARY
SCHOOL

SHEET TITLE

PLANTING
PLAN

DATES

NO.	DESCRIPTION	DATE
1.	BID DOCUMENTS	10/20/2016
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PLOT DATE: 11/4/2016

PROJECT NUMBERS

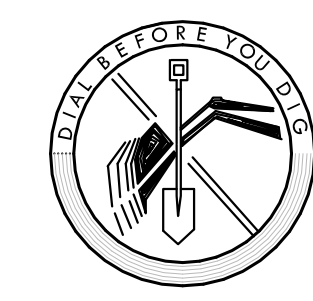
MELTON DESIGN GROUP: 2265
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L-1.1

SHEET 3 OF 16

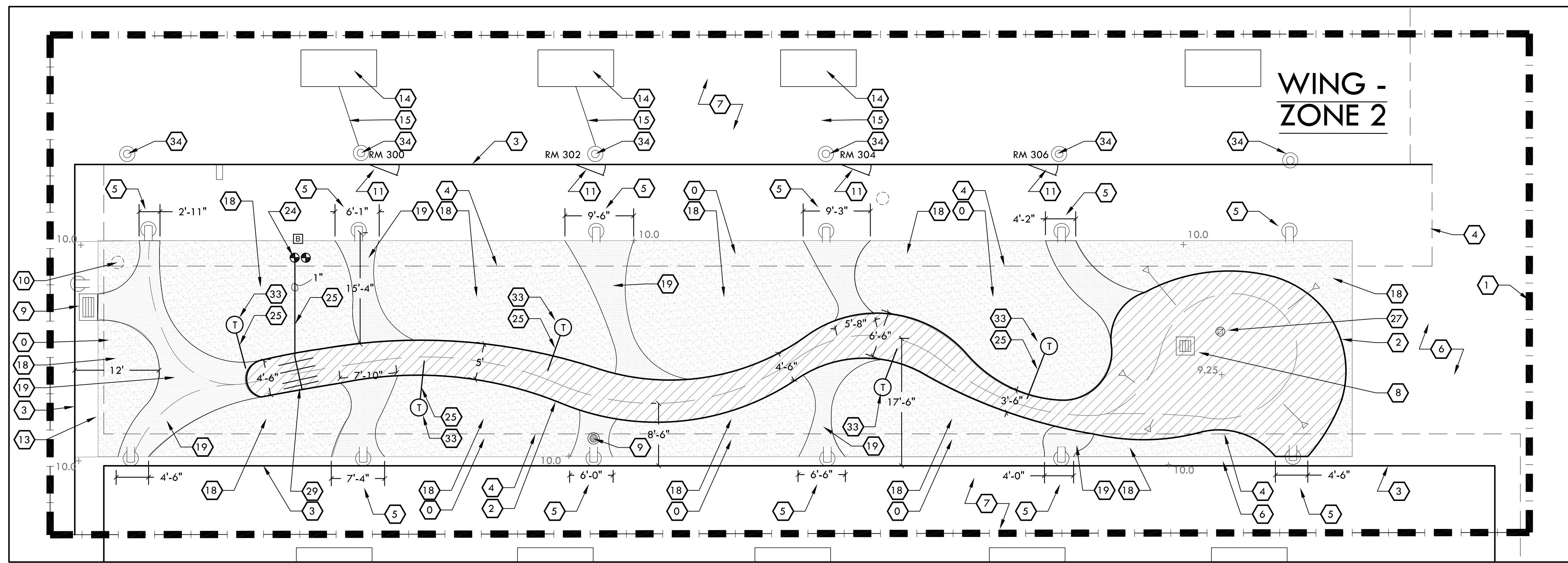
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TWO WORKING DAYS BEFORE YOU DIG

Plot Date: January 25, 2017 10:46 am File Name: G:\MDG(2200-2299)\2265 CUSD DROPS\2265 CAD\2265 CDs\2265 CD Chico Jr Const plan.dwg



IRRIGATION NOTES

- 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.
- 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.
- 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.
- CONTRACTOR TO PROVIDE COMPLETE 'AS-BUILT' DRAWINGS TO CLIENT AT COMPLETION OF PROJECT.
- 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.
- ALL REMOTE CONTROL VALVES SHALL BE INSTALLED IN LOCKABLE VALVE BOXES.
- CONTRACTOR IS RESPONSIBLE FOR IRRIGATION TO EACH PLANT. ADJUST HEADS, OR ADD DRIP LINE AS REQUIRED AT NO ADDITIONAL COST TO THE CLIENT.
- SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

L.I.D. AREA SUMMARY

LID PROJECT	CONTRIBUTING IMPERVIOUS SURFACE		OWP SIZING TOOL RESULTS**		DESIGN RESULTS					
	ACRES	SQ. FT.	MINIMUM LID REQUIREMENTS	DESIGN LEVEL LID	RETAINED STORM WATER	NEW IMPERVIOUS SURFACE	VOLUME			
	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.	%	ACRES	SQ. FT.	CU. FT.
ENTRY RAIN GARDEN	.138	5,994	.007	290	.007	292	100.7	.131	5,702	876
WING RAIN GARDEN	.297	12,928	.014	623	.040	1,321	212.0	.27	11,607	3,963

1. THE FRONT ENTRY AREA HAS 5,994 SF OF WATERSHED, WHICH REQUIRES 290 SF OF L.I.D.

2. THE WING AREA HAS 12,928 SF OF WATERSHED, REQUIRING 623 SF OF L.I.D.

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

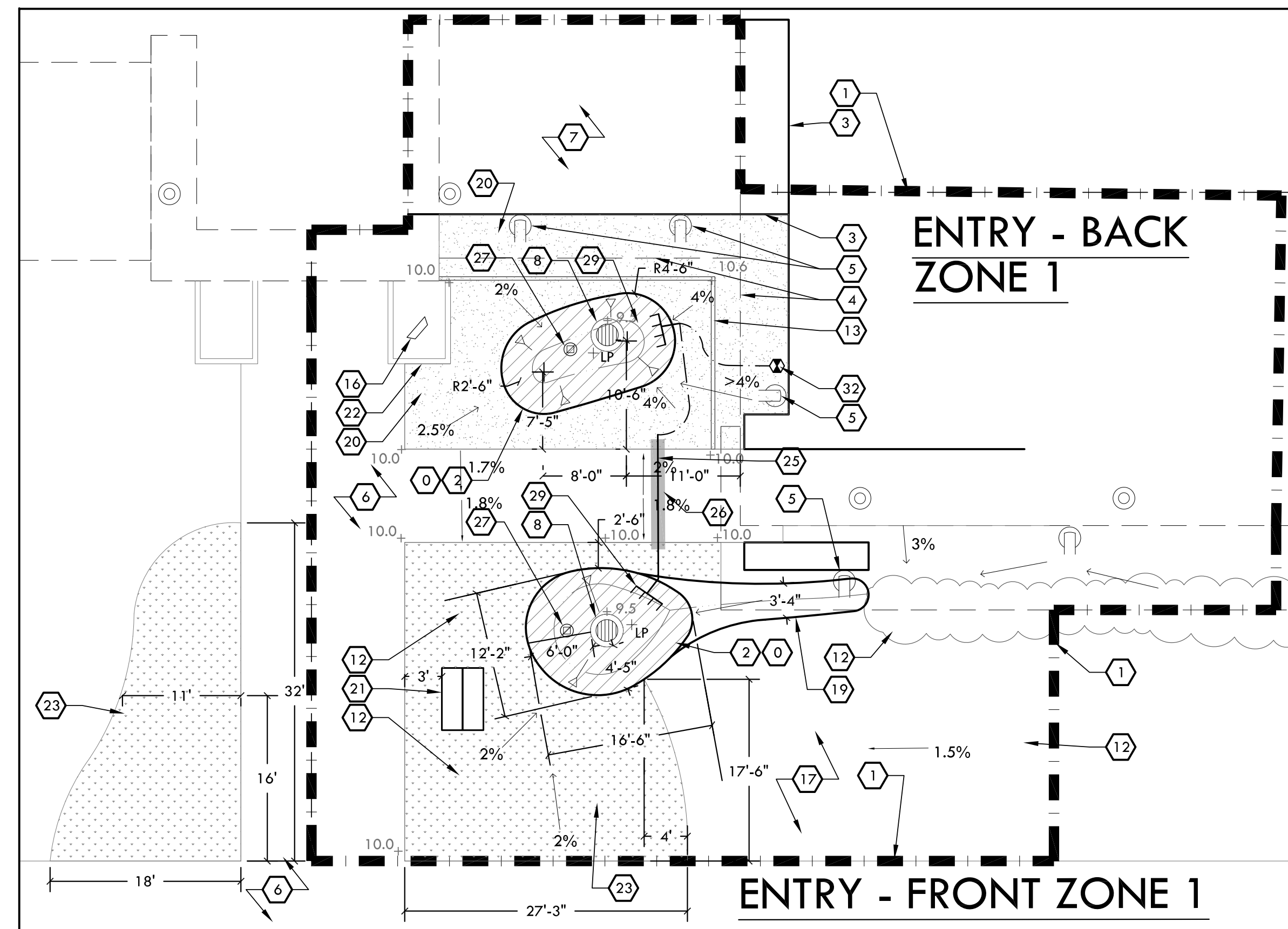
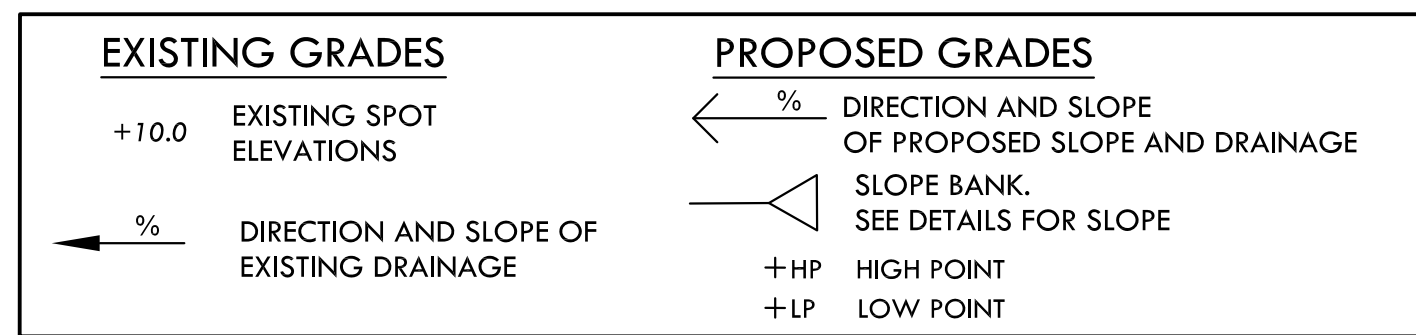
IRRIGATION APPROACH

- FRONT AND BACK ENTRY - CONNECT TO EXISTING DRIP SYSTEM WHERE SHOWN TO IRRIGATE LID AREA. RE-ARRANGE EXISTING SPRAY HEADS AROUND NEW LID AREA.
- WING - REMOVE AND REPLACE EXISTING VALVE WITH A NEW HUNTER DRIP ZONE KIT AND BATTERY OPERATED CONTROLLER IN VALVE BOX, RUN NEW DRIP IRRIGATION TO ALL NEW PLANTS.

GRADING AND DRAINAGE

- 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
- ADD 3" OF BASALT CHIP OVER LID AREA AND SWALE

GRADING LEGEND



GRADING NOTES

- 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.
- BACKFILL DRAINLINE TRENCHES WITH CLEAN SOIL FREE OF ROCK AND DEBRIS 1/2" OR LARGER. COMPACT BACKFILL TO ELIMINATE TRENCH SETTLING TO 90% UNDER ALL CONCRETE AND 80% IN LANDSCAPE AREA.
- 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.
- EXCEPT FOR TRENCHES, CLASS II AGG BASE TO MAKE GRADE IN ALL "FILL" AREAS UNDER CONCRETE OR ASPHALT.
- ALL SOIL IN PLANTING TO BE AMENDED PER SPECIFICATIONS.
- FINAL GRADE AT EDGE OF ASPHALT TO BE 2 1/2" BELOW CONCRETE AND TOP OF WALL TO ALLOW FOR SURFACE MATERIAL.

SOIL PERMEABILITY

PERCOLATION TEST AT NEAREST SOIL PROFILE	INITIAL PERCOLATION	PERCOLATION AFTER SATURATION
	WING- 0.95"/60 MIN. BACK - 0.70"/60 MIN. FRONT - 0.82"/60 MIN.	WING- 0.71"/60 MIN. BACK - 0.55"/60 MIN. FRONT - 0.60"/60 MIN.

CONSTRUCTION NOTES

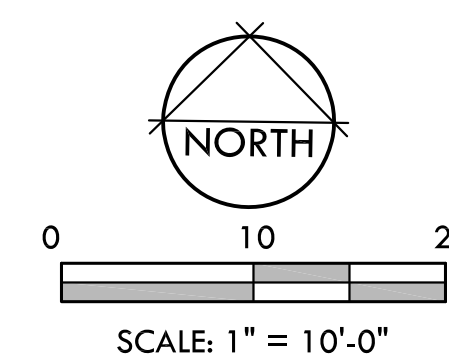
- CONFIRM ALL LOCATIONS OF EXISTING UTILITIES WITHIN PROJECT SITE PRIOR TO EXCAVATION. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND REPAIR OF DAMAGE TO ALL EXISTING UTILITIES. CALL ALL APPLICABLE AGENCIES AND USA, (800) 642-2444. THE LANDSCAPE ARCHITECT CANNOT BE RESPONSIBLE FOR THE COMPLETENESS 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.
- INSTALL ALL ELEMENTS PER MANUFACTURERS' SPECIFICATIONS.
- PROVIDE A COMPLETE SET OF LITERATURE CUT SHEETS FOR LANDSCAPE ARCHITECT'S APPROVAL.
- CONTRACTOR IS RESPONSIBLE TO COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- CONSTRUCTION SHALL CONFORM TO ALL UNIFORM BUILDING CODE, 2013 EDITION, AND SPECIFICATIONS.
- CONTRACTOR SHALL OBSERVE ALL SAFETY REGULATIONS PERTAINING TO THIS PROJECT.
- ANY CHANGES SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
- 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.
- 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.
- 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	EXISTING TURF TO BE REMOVED, INCLUDING EXISTING IRRIGATION HEADS AND LATERALS	DISPOSE OF OFF SITE - TURF AND ROOT SPOILS MAY BE DROPPED OFF AT CUSD CORPORATION YARD 2455 CARMICHAEL DR. IN CHICO. HEADS TO BE RETURNED TO SCHOOL DISTRICT.	--
1	WATERSHED AREA	RETAIN AND PROTECT	--
2	PROJECT AREA (L.I.D.) - RAIN GARDEN	LOW IMPACT DEVELOPMENT (LID) AREA.	4,7 /L-10.1
3	EXISTING WALL	RETAIN AND PROTECT	--
4	EXISTING ROOFLINE	RETAIN AND PROTECT	--
5	EXISTING DOWNSPOUT	RETAIN AND PROTECT	--
6	EXISTING CONCRETE SURFACE	RETAIN AND PROTECT	--
7	ROOF TOP SURFACE	RETAIN AND PROTECT	--
8	EXISTING STORM DRAIN	USE FOR LID AREA OVERFLOW. SAND, CLEAN, AND PRIMER DRAIN INLET GRATE, BEFORE PAINTING W/ BENJAMIN MOORE COLOR: ROCKY MOUNTAIN SKY	--
9	EXISTING DRAIN INLET	RETAIN, AND PROTECT	--
10	EXISTING WATER VALVE	RETAIN AND PROTECT	--
11	EXISTING CLASSROOM DOORS	RETAIN AND PROTECT	--
12	EXISTING VEGETATION	RETAIN AND PROTECT. REPLACE IF DAMAGED BY CONTRACTOR. SEE TREE PROTECTION IN BOOK FORM SPECIFICATIONS	--
13	EXISTING MOW CURB	REMOVE AND DISPOSE OF OFF SITE	--
14	EXISTING AIR CONDITIONING UNITS	RETAIN AND PROTECT	--
15	EXISTING AIR CONDITIONING CONDENSATION DRAIN LINE	RETAIN AND PROTECT	--
16	EXISTING MEMORIAL TO BE MOVED BY HAND (SMALL CONCRETE PEDESTAL)	MOVE APPROXIMATELY 7' OVER TO NEW LOCATION SHOWN ON PLAN.	--
17	EXISTING TURF	RETAIN AND PROTECT	--
18	BASALT CHIP	(0" - 1/2") - 2" THICK. SLOPE TO DRAIN SWALE SMOOTH RAKE FINISH	--
19	BIOSWALE DRAINAGE	3/4" BASALT CHIP	5/L-10.1
20	BARK MULCH, 3"	--	--
21	DUAL BENCHES	BY OWNER	--
22	EXISTING PLANTER RETAINING WALL	RETAIN AND PROTECT	--
*23	PLUG EXISTING TURF	SEE PLANTING PLANS, SHEET L-3.1. USE EXISTING IRRIGATION. VERIFY SETTINGS	3/L-10.3
24	REMOVE AND REPLACE EXISTING REMOTE CONTROL VALVE	HUNTER IC2-101. USE BATTERY OPERATED NODE CONTROLLER NODE-400. SEE IRRIGATION APPROACH, THIS PAGE.	5/L-10.2
25	LATERAL PIPE	NON-PRESSURE, PVC SCH. 40. INSTALL AS PER PLAN AND DETAILS. SIZE PER CHART	1/L-10.2 3,6/L-10.1
26	IRRIGATION SLEEVING 3"	INSTALL MAIN LINE & LATERALS IN SLEEVE AS SHOWN & NEEDED TO ACCOMMODATE PIPES CROSSING BENEATH PAVEMENT, WALKWAYS, ETC. PIPES SHALL BE LARGE ENOUGH TO ALLOW 25% VOID SPACE AFTER ALL PIPES ARE PLACED. MIN. SLEEVE SIZE SHALL BE 3".	6/L-10.1
*27	WATER SAMPLE TUBE	PLACE AROUND THE LOWEST AREA OF LID AREA	2/L-10.0
29	DRIP IRRIGATION SYSTEM	INLINE EMITTERS AND BARBED DRIP EMITTERS. SEE DETAIL FOR MORE INFORMATION	11/L-10.2
30	EXISTING WATER SHUT OFF VALVE	RETAIN AND PROTECT	--
31	CLEAR SHRUBS FROM AROUND DOWNSPOUT	--	--
32	POINT OF CONNECTION - (EX) DRIP LINE	CONNECT 3/4" FLEX PIPE TO EXISTING DRIP LINE	11/L-10.2
33	TREE IRRIGATION	IN-LINE DRIP EMITTER RINGS FOR NEW OR EXISTING TREES. SEE DETAIL	8/L-10.2
34	ROOF DRAIN	RETAIN AND PROTECT	-

*ADD ALTERNATE BID ITEM NOTES

- ITEMS SHOWN WITH AN ASTERISK TO BE BID AS AN ADD ALTERNATE.
- 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.
- THE OWNER HAS THE OPTION OF ACCEPTING NONE, OR ANY NUMBER AND COMBINATION OF BID ALTERNATIVES.
- COORDINATE RELATED WORK AND MODIFY SURROUNDING WORK TO INTEGRATE THE WORK OF EACH ALTERNATIVE.



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PROJECT

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HIGH SCHOOL
ENTRY

SHEET TITLE
**CONSTRUCTION
PLAN**

DATES

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1.	BID DOCUMENTS	10/20/2016
2.	BID DOCUMENTS	1/12/2017

PLOT DATE: 1/25/2017

PROJECT NUMBERS

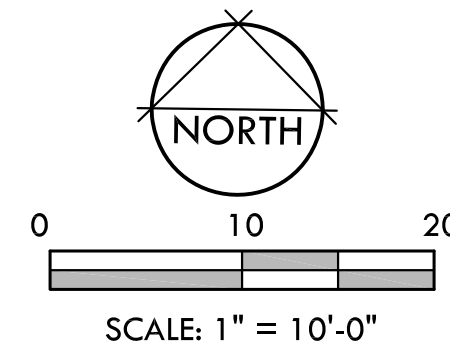
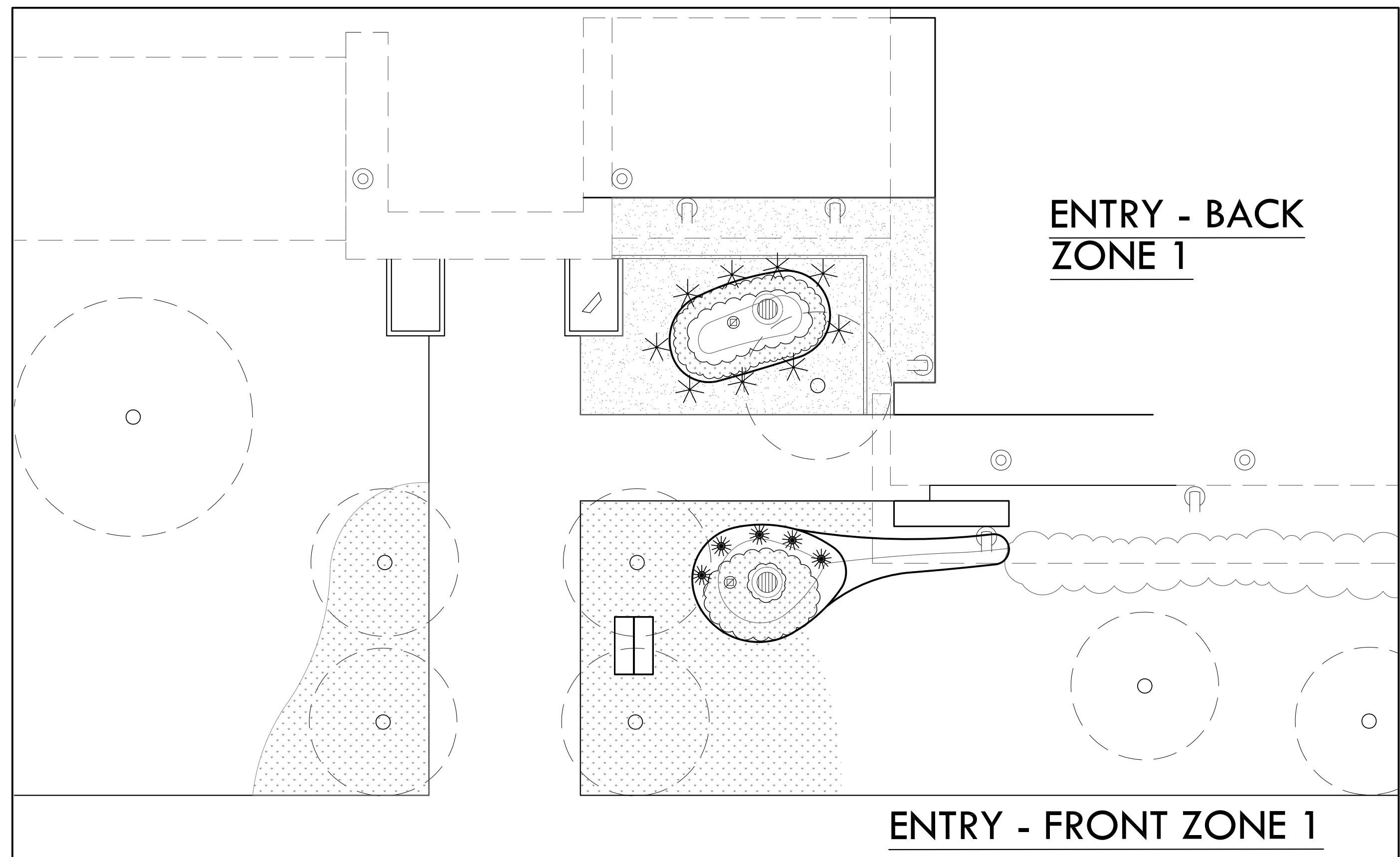
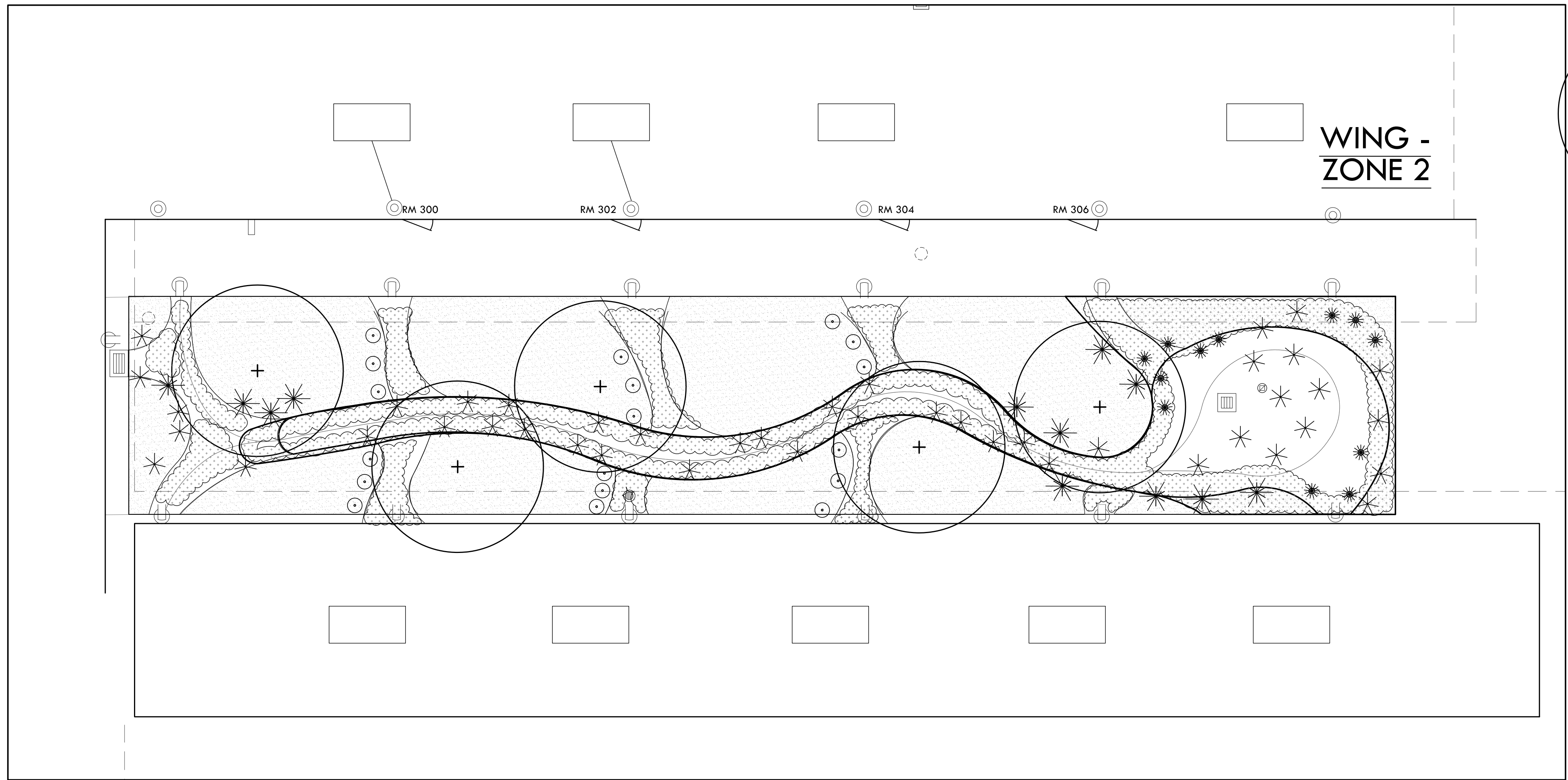
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CONSULTANT PROJECT #:

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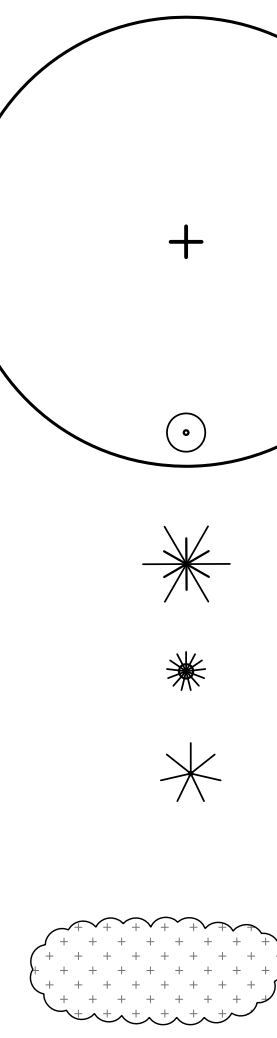
SHEET 4 OF 16
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Plot Date: January 25, 2017 11:12 am File Name: G:\MDG(2200-2299)\2265 CUSD DROPS\2265 CAD\2265 CDs\2265 CD Chico Jr Plant.dwg



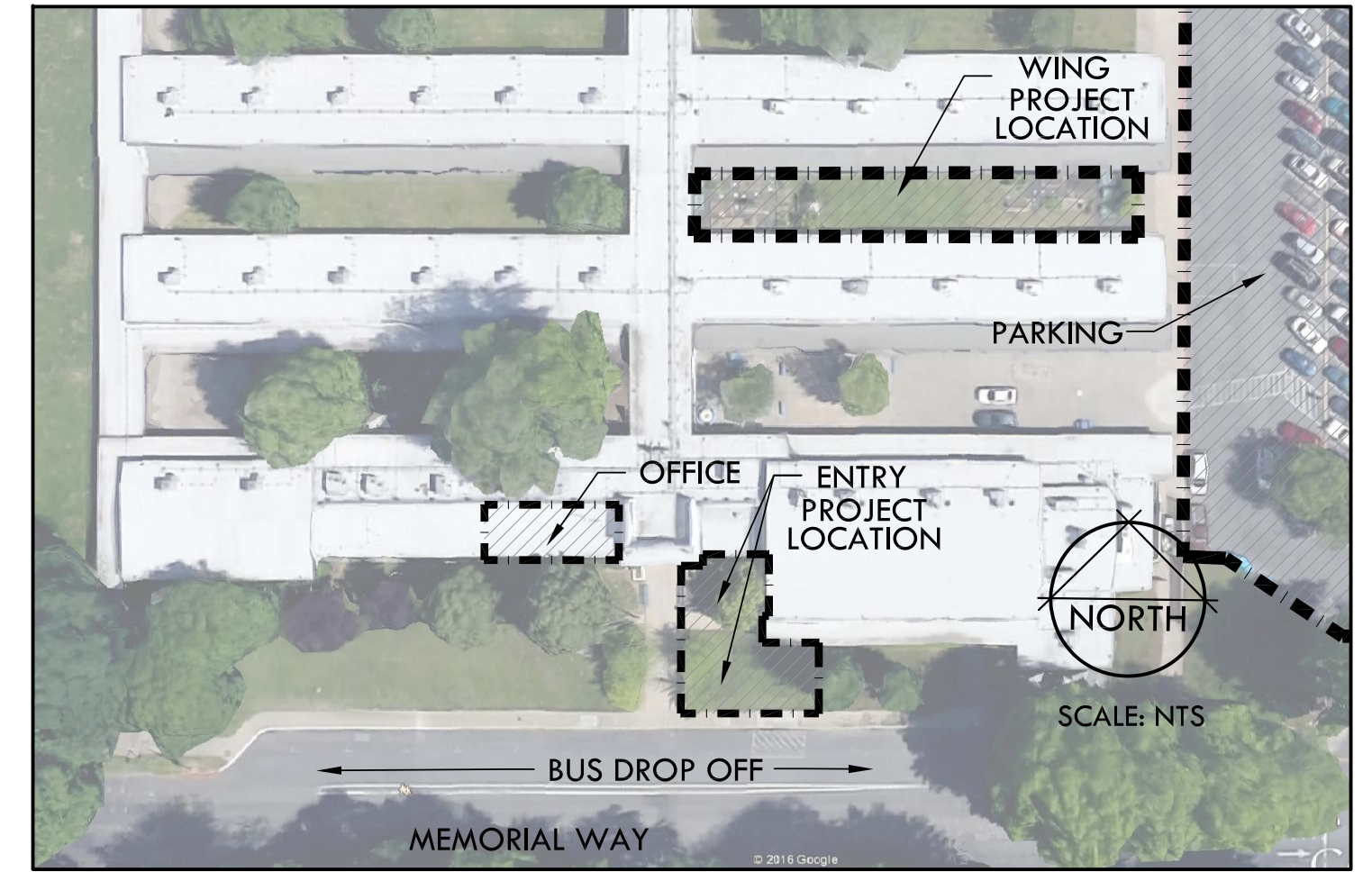
PLANTING LEGEND

SYMBOL	LATIN NAME/ COMMON NAME	CONTAINER SIZE	QTY	REMARKS	WATER USE	DETAILS
TREES						
T-1	GINKGO BILOBA 'MAIDENHAIR' MAIDENHAIR GINKGO	15 GAL	5	STANDARD	M	1/L-10.3
SHRUBS						
S-1	JUNCUS PATENS BLUE RUSH	1 GAL	18	STANDARD	M	2/L-10.3
S-2	MUHLENBERGIA RIGENS DEER GRASS	1 GAL	12	STANDARD	L	2/L-10.3
S-3	TYPHACEAE MINIMA DWARF CATTAIL	1 GAL	17	STANDARD	L	2/L-10.3
S-4	CALAMAGROSTIS X ACUTIFLORA FEATHER REED GRASS	1 GAL	53	STANDARD	L	2/L-10.3
GROUND COVER						
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. FILL IN OTHER AREAS AT 12" O.C. WHERE SHOWN INCLUDING EXISTING TURF AREA.

SITE LOCATION MAP



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.

TOP DRESSING NOTES:

ADD CRUSHED ROCK FINES TO MAINTAIN 1/4" BELOW TOP OF SIDEWALK AFTER SETTLING. SLOPE AWAY FROM BUILDING TO DRAIN AS SHOWN. RAKE AND WATER IN.
COVER ALL PLANTER AREAS WITH PRE-EMERGENT PRIOR TO COVERING WITH BASALT. SEE BOOK FORM SPECIFICATIONS.
LID/RAIN GARDEN PLANTERS TO BE FINISHED WITH 2" LAYER OF 0 TO 1/4" BASALT.

BID ITEM NOTES

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5. A PERCENTAGE OF VEGETATION AND IRRIGATION WILL BE SHOWN ON BID FORMS AS AN ADD ALTERNATE. SEE BID FORM SPEC SHEETS.



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CHICO JR.
HIGH SCHOOL
ENTRY

SHEET TITLE

PLANTING
PLAN

DATES

NO.	DESCRIPTION	DATE
1.	BID DOCUMENTS	10/20/2016
2.	BID DOCUMENTS	1/12/2017
3.		
4.		
5.		
6.		
7.		
8.		

PLOT DATE: 01/25/2017

PROJECT NUMBERS

MELTON DESIGN GROUP: 2265
CONSULTANT PROJECT #:

SHEET NUMBER

L-2.1

SHEET 5 OF 16

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**UNDERGROUND
SERVICE ALERT**
of Northern California
Call: TOLL FREE
1-800-227-2600

TWO WORKING DAYS BEFORE YOU DIG

SOIL PERMEABILITY

PERCOLATION TEST AT NEAREST SOIL PROFILE	INITIAL PERCOLATION	PERCOLATION AFTER SATURATION
	FRONT - 0.75"/60 MIN. BACK - 0.75"/60 MIN.	FRONT - 0.57"/60 MIN. BACK - 0.57"/60 MIN.

CONSTRUCTION NOTES

- 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.
- INSTALL ALL ELEMENTS PER MANUFACTURERS' SPECIFICATIONS.
- PROVIDE A COMPLETE SET OF LITERATURE CUT SHEETS FOR LANDSCAPE ARCHITECT'S APPROVAL.
- CONTRACTOR IS RESPONSIBLE TO COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- CONSTRUCTION SHALL CONFORM TO ALL UNIFORM BUILDING CODE, 2013 EDITION, AND SPECIFICATIONS.
- CONTRACTOR SHALL OBSERVE ALL SAFETY REGULATIONS PERTAINING TO THIS PROJECT.
- ANY CHANGES SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
- 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.
- 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.
- CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR ANY DAMAGES MADE TO EXISTING UTILITIES AND HARDSCAPE AT NO ADDITIONAL COST TO THE OWNER.

IRRIGATION NOTES

- 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.
- 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.
- 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.
- CONTRACTOR TO PROVIDE COMPLETE 'AS-BUILT' DRAWINGS TO CLIENT AT COMPLETION OF PROJECT.
- 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.
- ALL REMOTE CONTROL VALVES SHALL BE INSTALLED IN LOCKABLE VALVE BOXES.
- CONTRACTOR IS RESPONSIBLE FOR IRRIGATION TO EACH PLANT. ADJUST HEADS, OR ADD DRIP LINE AS REQUIRED AT NO ADDITIONAL COST TO THE CLIENT.
- SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

GRADING AND DRAINAGE

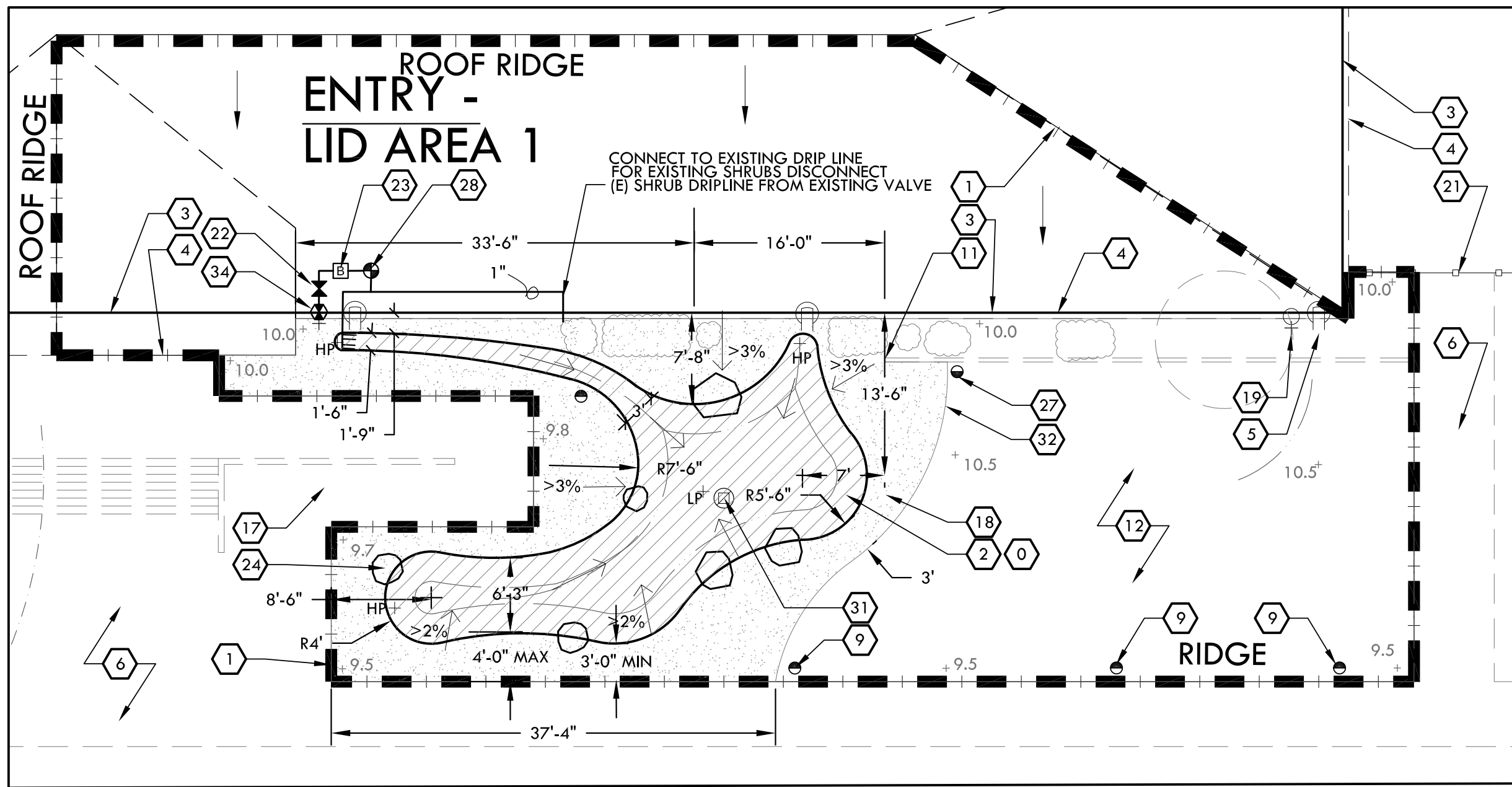
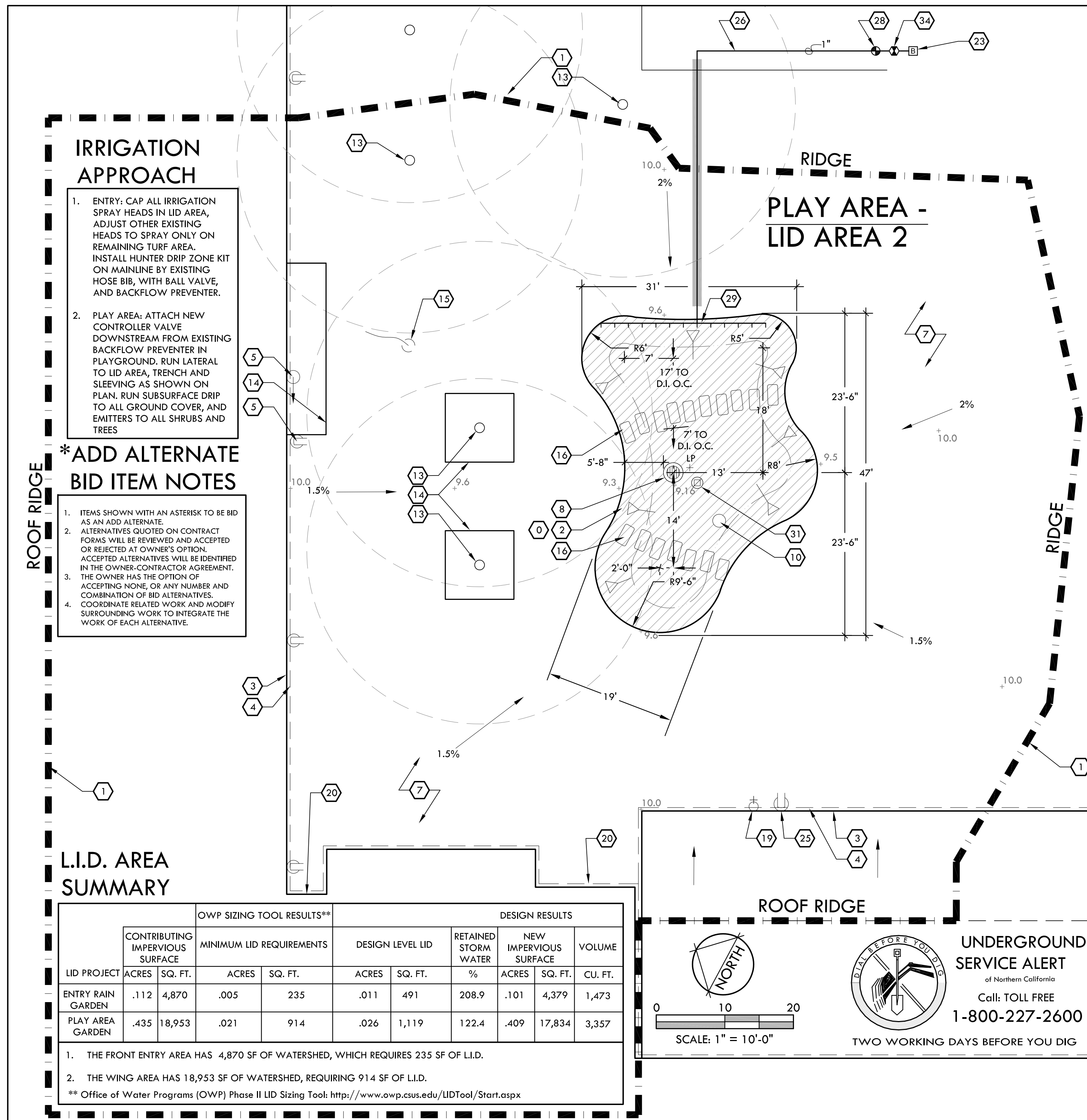
- BASE LINE ELEVATION SET TO EDGE OF CONCRETE WALK NEAR LID PROJECT AREA. POSITIVE DRAINAGE HAS BEEN CONFIRMED FROM CONCRETE WALK TO DRAIN INLET, AND SLOPES HAVE BEEN SHOWN ON PLAN.
- ADD 2" OF BASALT CHIP OVER LID AREA AND SWALE

GRADING NOTES

- 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.
- BACKFILL DRAINLINE TRENCHES WITH CLEAN SOIL FREE OF ROCK AND DEBRIS 1/2" OR LARGER. COMPACT BACKFILL TO ELIMINATE TRENCH SETTLING TO 90% UNDER ALL CONCRETE AND 80% IN LANDSCAPE AREA.
- 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.
- EXCEPT FOR TRENCHES, CLASS II AGG BASE TO MAKE GRADE IN ALL "FILL" AREAS UNDER CONCRETE OR ASPHALT.
- ALL SOIL IN PLANTING TO BE AMENDED PER SPECIFICATIONS.
- FINAL GRADE AT EDGE OF ASPHALT TO BE 2 1/2" 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 GRADE AND DRAINAGE
%	DIRECTION AND SLOPE OF EXISTING DRAINAGE	▲	SLOPE BANK. SEE DETAILS FOR SLOPE
		+HP	HIGH POINT
		+LP	LOW POINT



CONSTRUCTION LEGEND

SYMBOL	DESCRIPTION	MODEL/REMARKS	DETAIL
(0)	TURF AND ASPHALT DEMOLITION AREAS	REMOVE TURF AND ROOTS FOR ENTRY LID AREA. TURF AND ROOT SPOILS MAY BE DROPPED OF AT THE CUSD CORPORATION YARD 2455 CARMICHAEL DR, IN CHICO. REMOVE EXISTING ASPHALT WHERE SHOWN FOR LID AREA 2	--
(1)	WATERSHED AREA	RETAIN AND PROTECT	--
(2)	PROJECT AREA (L.I.D.)	LOW IMPACT DEVELOPMENT (LID) AREA. CUT INTO EXISTING ASPHALT, AND REMOVE OFF SITE. CONFIRM SHAPE OF L.I.D. WITH LANDSCAPE ARCHITECT PRIOR TO CUTTING ASPHALT. EXCAVATE AND STOCKPILE NATIVE SOIL. REMOVE OFF SITE UPON PROJECT COMPLETION. SEE DETAIL FOR MORE INFORMATION	4.7/L-10.1
(3)	EXISTING BUILDING WALL	RETAIN AND PROTECT	--
(4)	EXISTING DOWNSPOUT	RETAIN AND PROTECT	--
(5)	EXISTING DOWNSPOUT OUTFALL	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 SPRAY HEADS	RETAIN AND PROTECT. ADJUST AS NEEDED FOR EVEN SPRAY OVER NEW TURF AREA OUTLINE	--
(10)	EXISTING GATE VALVE	RETAIN AND PROTECT	--
(11)	CUT EXISTING MOW CURB	DISPOSE OF OFF SITE	--
(12)	EXISTING TURF	RETAIN AND PROTECT. ADJUST HEADS TO WATER WITH EVEN DISTRIBUTION	--
(13)	EXISTING TREE	RETAIN AND PROTECT. SEE TREE PROTECTION NOTES IN BOOKFORM SPECIFICATIONS	--
(14)	EXISTING RETAINING WALL	RETAIN AND PROTECT	--
(15)	EXISTING FLAG POLE	RETAIN AND PROTECT	--
(16)	STEPPING STONE	16" X 24" X 3-4" - SET ON 2" LAYER OF BASE ROCK. ANTIQUE RUSTIC TUMBLED PAVER [SUTHERLAND LANDSCAPE]	--
(17)	EXISTING ADA RAMP	RETAIN AND PROTECT	--
(18)	BASALT CHIP	(0"-1/4") - 2" THICK. SMOOTH RAKE FINISH	--
(19)	EXISTING HOSE BIBS	RETAIN AND PROTECT	--
(20)	EXISTING DOORS	RETAIN AND PROTECT	--
(21)	EXISTING FENCE	RETAIN AND PROTECT	--
(22)	ISOLATION VALVE	--	4/L-10.2
(23)	EXISTING BACKFLOW PREVENTER	RETAIN AND PROTECT	--
(24)	BOULDERS	QUANTITY & SIZE: (x3) 30", (x3) 36". SET 1/3 OF BOULDER BELOW FINISH GRADE. PLACE PER PLAN	--
(25)	EXISTING DOWNSPOUT TO CONVERT SURFACE FLOW	--	1/L-10.1
(26)	LATERAL PIPE	NON-PRESSURE, PVC SCH. 40. SIZE PER CHART. PLACE TO AVOID ROOTS	6/L-10.1 1/L-10.2
(27)	TRANSPLANT IRRIGATION HEAD	MOVE ONE EXISTING IRRIGATION HEAD TO THIS LOCATION. ADJUST, AND RUN LATERAL ACCORDINGLY.	--
(28)	NEW REMOTE CONTROL VALVE	BATTERY OPERATED HUNTER ICZ-101. NODE CONTROLLER NODE-400. SEE IRRIGATION APPROACH, THIS PAGE.	5/L-10.2
(29)	DRIP IRRIGATION SYSTEM	INLINE EMITTERS AND BARBED DRIP EMITTERS. SEE DETAIL FOR MORE INFORMATION	11/L-10.2
(30)	IRRIGATION SLEEVING - 3" SCHEDULE 40	INSTALL MAIN LINE & LATERALS IN SLEEVE AS SHOWN & NEEDED TO ACCOMMODATE PIPES CROSSING BENEATH PAVEMENT, WALKWAYS, ETC. PIPES SHALL BE LARGE ENOUGH TO ALLOW 25% VOID SPACE AFTER ALL PIPES ARE PLACED. MIN. SLEEVE SIZE SHALL BE 2". COVER WITH ASPHALT PATCH	6/L-10.1
(31)	WATER SAMPLE TUBE	PLACE AT THE LOWEST POINT OF LID AREA	2/L-10.0
(32)	SHOVEL CUT EDGE OF EXISTING TURF	--	--
(33)	EXISTING VEGETATION	RETAIN AND PROTECT	--
(34)	POINT OF CONNECTION	CONNECT TO EXISTING MAINLINE WHERE SHOWN. SEE IRRIGATION APPROACH FOR MORE INFORMATION	--



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



CONSULTANT

CLIENT

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

PROJECT

DROPS:
CITRUS
ELEMENTARY

SHEET TITLE

CONSTRUCTION
PLAN

DATES

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

PLOT DATE: 11/4/2016

PROJECT NUMBERS

MELTON DESIGN GROUP: 2265
CONSULTANT PROJECT #:

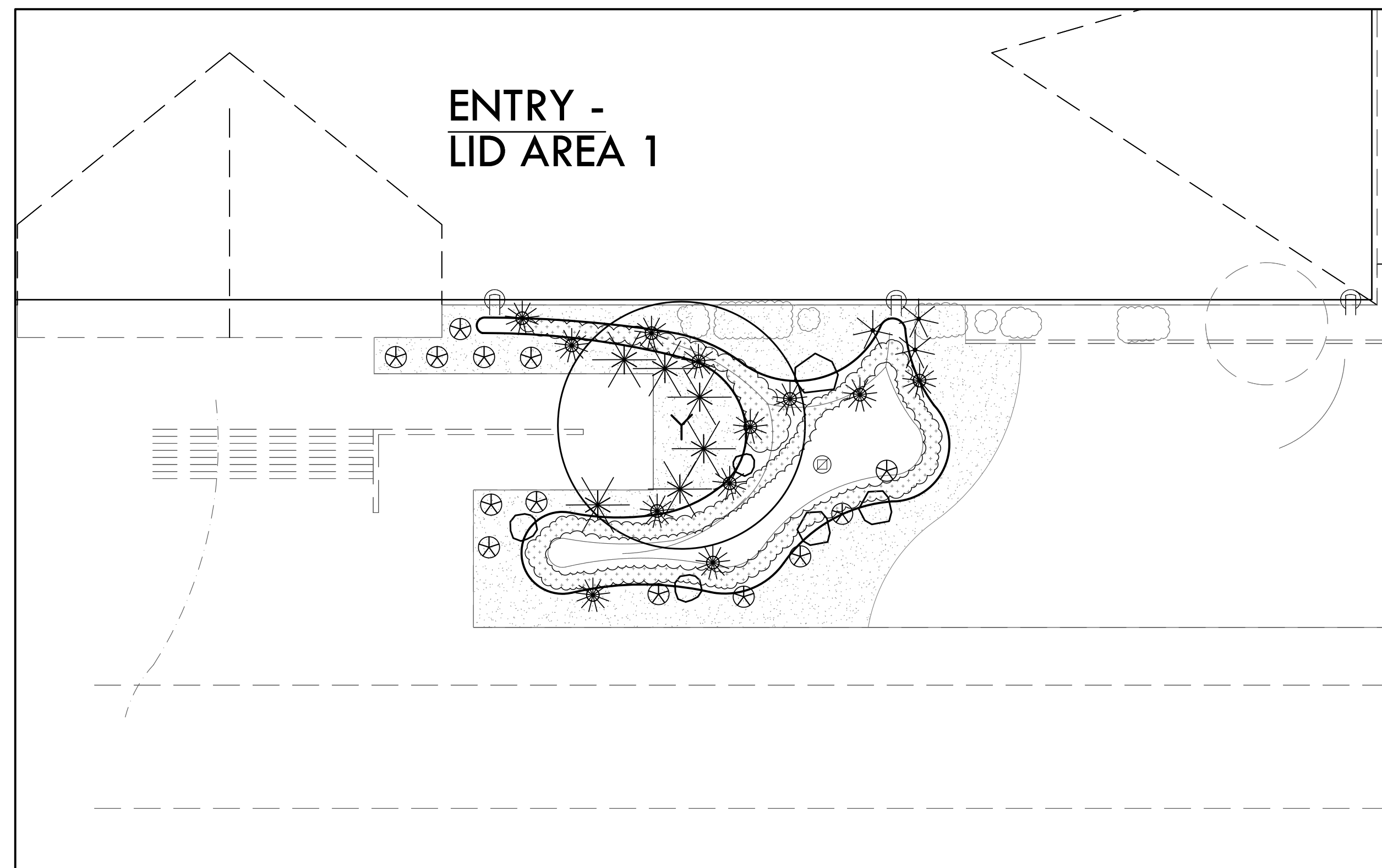
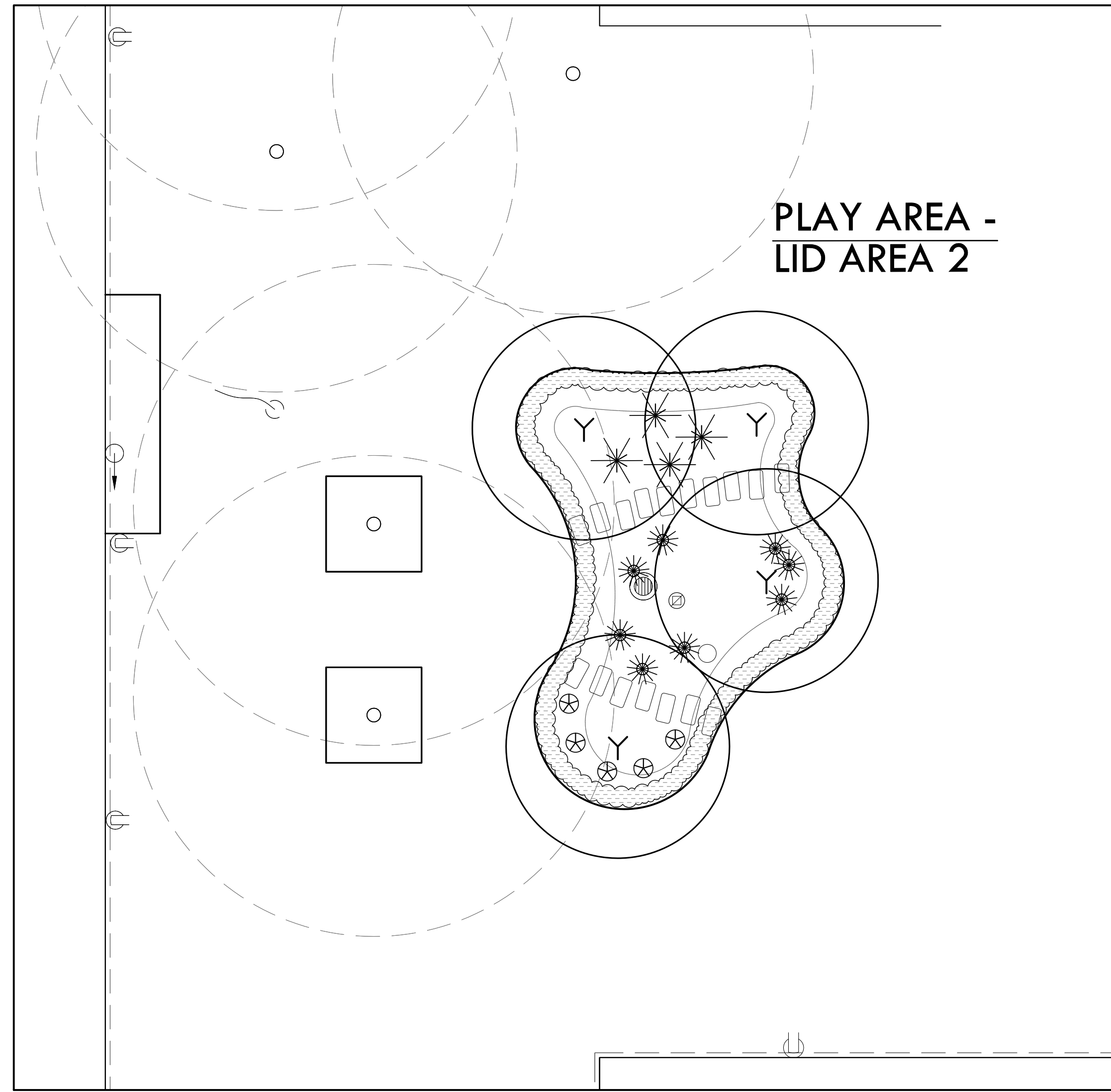
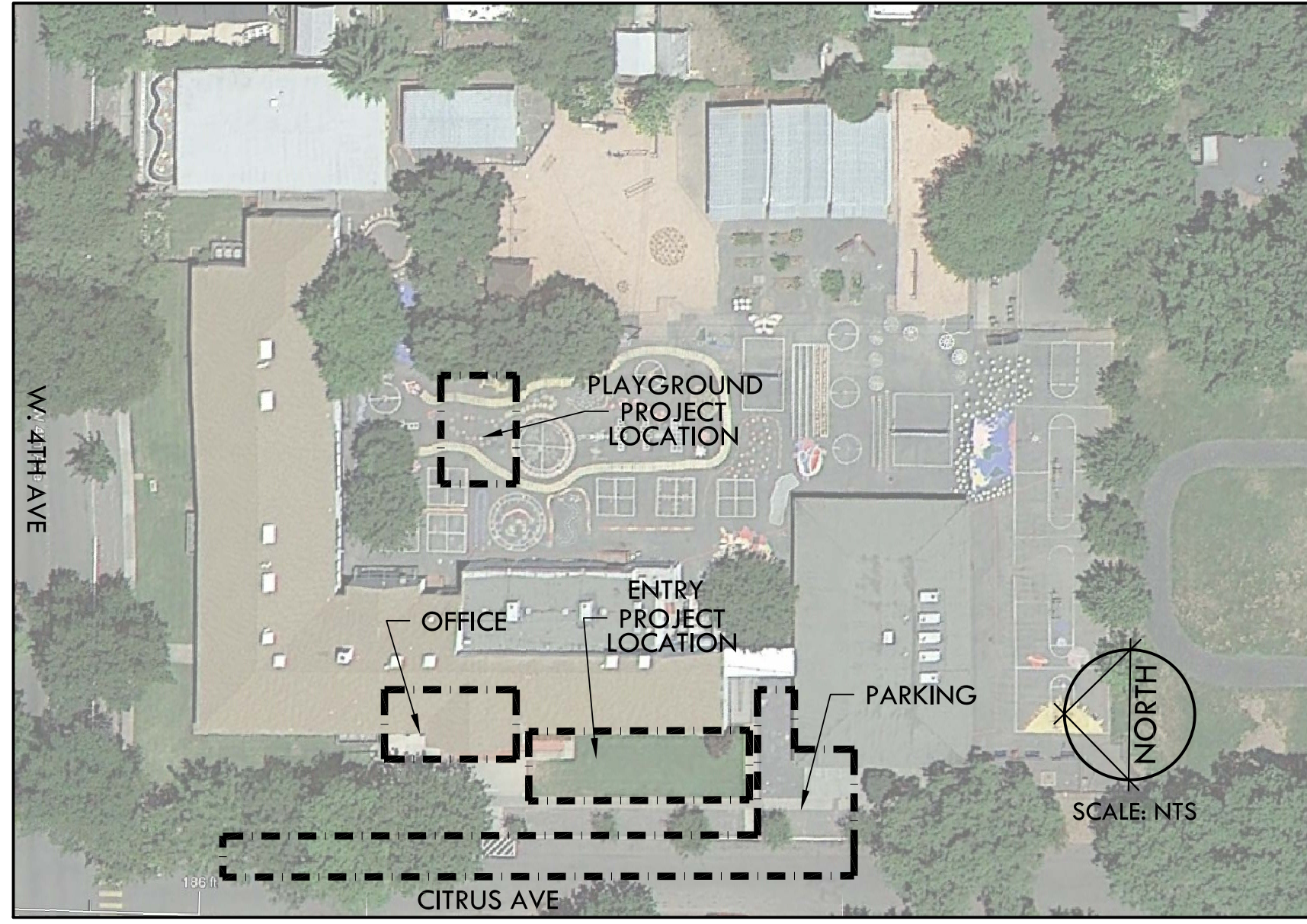
SHEET NUMBER

L-3.0

SHEET 6 OF 16

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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	5	STANDARD	M	1/L-10.3
SHRUBS						
S-1	JUNCUS INFLEXUS 'BLUE ARROWS' BLUE ARROWS RUSH	1 GAL	18		M	2/L-10.3
S-2	MUHLENBERGIA RIGENS DEER GRASS	1 GAL	10		L	2/L-10.3
S-3	CHONDROPETALUM TECTORUM SMALL CAPE RUSH	1 GAL	21		L	2/L-10.3
S-4	CALAMAGROSTIS X ACUTIFLORA KARL FOERSTER REED GRASS	1 GAL	3		L	2/L-10.3
GROUND COVER						
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.

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.



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PROJECT NUMBERS

MELTON DESIGN GROUP: 2265
CONSULTANT PROJECT #:

SHEET NUMBER

L-3.1

SHEET 7 OF 16

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Plot Date: November 04, 2016 - 2:52 pm File Name: G:\MDG(2200-2299)\2265 CUSD DROPS\2265 CAD\2265 CDs\2265 CD Citrus\2265 Citrus Plant.dwg

IRRIGATION NOTES

- 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.
- 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.
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- CONTRACTOR TO PROVIDE COMPLETE 'AS-BUILT' DRAWINGS TO CLIENT AT COMPLETION OF PROJECT.
- 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.
- ALL REMOTE CONTROL VALVES SHALL BE INSTALLED IN LOCKABLE VALVE BOXES.
- CONTRACTOR IS RESPONSIBLE FOR IRRIGATION TO EACH PLANT. ADJUST HEADS, OR ADD DRIP LINE AS REQUIRED AT NO ADDITIONAL COST TO THE CLIENT.
- SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

IRRIGATION APPROACH

REMOVE EXISTING SPRAY HEADS AND RETURN HEADS TO SCHOOL DISTRICT. CAP LATERALS. USE ONE LATERAL FOR NEW DRIP IRRIGATION AS SHOWN.

SOIL PERMEABILITY

PERCOLATION TEST AT NEAREST SOIL PROFILE	INITIAL PERCOLATION	PERCOLATION AFTER SATURATION
	0.30"/60 MIN.	0.5"/60 MIN.

GRADING NOTES

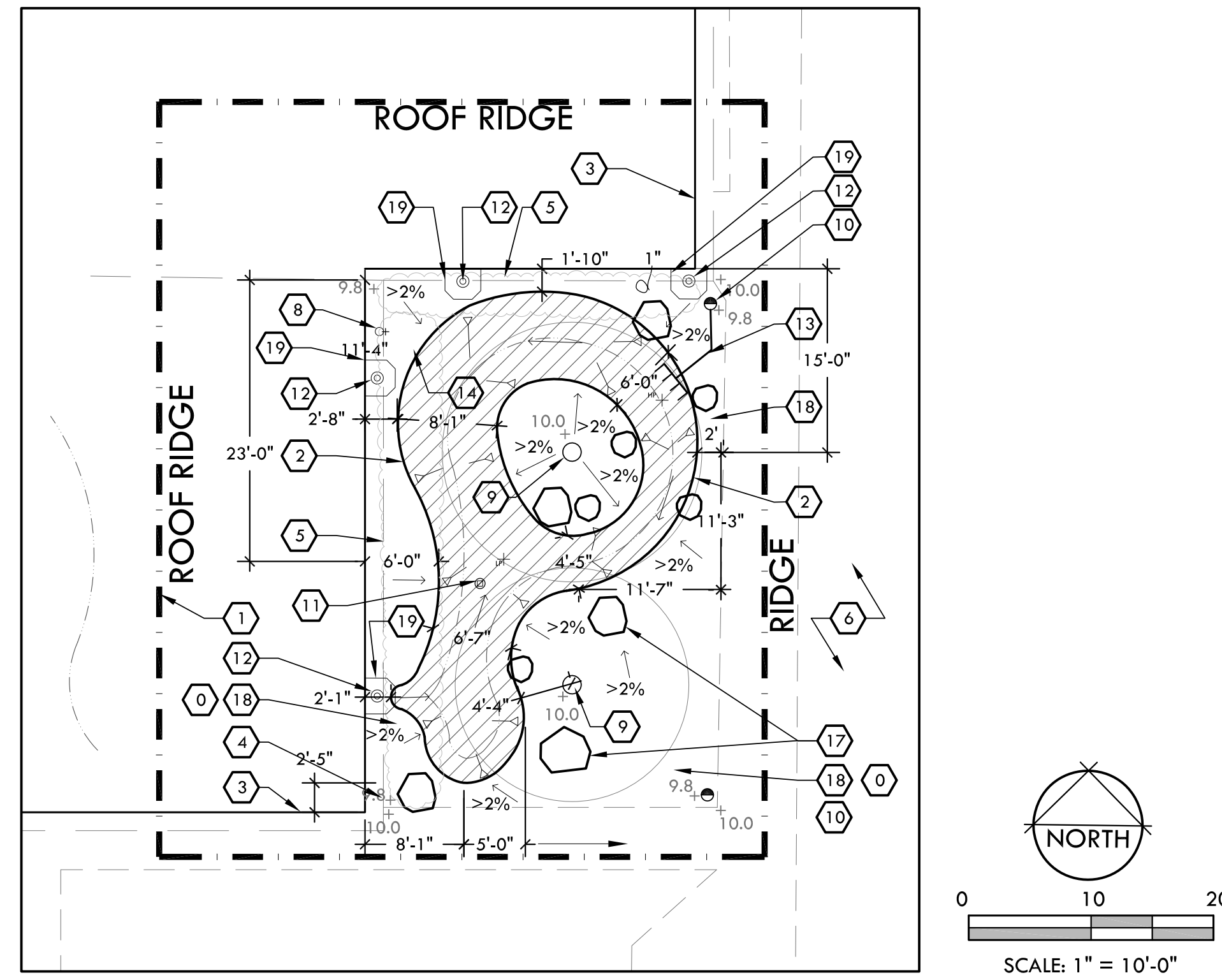
- VERIFY EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO THE START OF WORK. CALL U.S.A. AT (800) 642-2444 AND VERIFY BY POTHOLE IF NECESSARY.
- BACKFILL DRAINLINE TRENCHES WITH CLEAN SOIL FREE OF ROCK AND DEBRIS 1/2" OR LARGER. COMPACT BACKFILL TO ELIMINATE TRENCH SETTLING TO 90% UNDER ALL CONCRETE AND 80% IN LANDSCAPE AREA.
- 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.
- EXCEPT FOR TRENCHES, CLASS II AGG BASE TO MAKE GRADE IN ALL "FILL" AREAS UNDER CONCRETE OR ASPHALT.
- ALL SOIL IN PLANTING TO BE AMENDED PER SPECIFICATIONS.
- FINAL GRADE AT EDGE OF ASPHALT TO BE 2 1/2" BELOW CONCRETE AND TOP OF WALL TO ALLOW FOR SURFACE MATERIAL.

GRADING AND DRAINAGE

- BASE LINE ELEVATION SET TO EDGE OF CONCRETE SIDEWALK SURROUNDING LID PROJECT AREA. POSITIVE DRAINAGE HAS BEEN CONFIRMED FROM CONCRETE WALK TO LID PROJECT AREA. SLOPES SHOWN ON PLAN.
- CLEAN AND GRUB ENTIRE SITE TO A SUBGRADE OF -4", AND GRADE TO DRAIN TO SWALE
- ADD 3" OF BASALT CHIP OVER LID AREA AND SWALE

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



L.I.D. AREA SUMMARY

LID PROJECT	CONTRIBUTING IMPERVIOUS SURFACE		OWP SIZING TOOL RESULTS**		DESIGN RESULTS					
	ACRES	SQ. FT.	ACRES	SQ. FT.	DESIGN LEVEL LID	RETAINED STORM WATER	NEW IMPERVIOUS SURFACE	VOLUME		
					ACRES	SQ. FT.	%	ACRES	SQ. FT.	CU. FT.
ENTRY RAIN GARDEN	.070	3,049	.003	147	.011	486	330.6	.059	2,563	1,458

- THE FRONT ENTRY AREA HAS 3,049 SF OF WATERSHED, WHICH REQUIRES 147 SF OF L.I.D.
- DISCONNECT EXISTING HEADS AND CONNECT TO DRIP. DRIP LINE TO TWO LOCATIONS. RUN 5 ROWS OF IN-PIPE DRIP (RAINBIRD XFS). EMITTERS 12" O.C., EACH AT .9 GPH. SPACE EQUALLY THROUGH SWALE.

** 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	TURF DEMOLITION AREAS	REMOVE TURF AND ROOTS FOR ALL PROJECT AREA PLANTER. TURF AND ROOT SPOILS MAY BE DROPPED OFF 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. EXCAVATE EXISTING NATIVE SOIL AS PER DETAILS, 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 SHRUBS TO REMOVE	REMOVE AND DISPOSE OF OFFSITE	--
6	EXISTING CONCRETE SIDEWALK	RETAIN AND PROTECT	--
7	EXISTING ASPHALT SURFACE	RETAIN AND PROTECT	--
8	EXISTING HOSE BIB	RETAIN AND PROTECT	--
9	EXISTING TREES TO IRRIGATE	RETAIN AND PROTECT. SEE TREE PROTECTION NOTES IN BOOK FORM SPECIFICATIONS	8,11 /L-10.2
10	EXISTING SPRAY HEADS	REMOVE ALL IRRIGATION HEADS AND CAP. ATTACH TO SINGLE HEAD, AND RUN DRIP TO ALL NEW PLANTING AND EXISTING TREES	--
*11	WATER SAMPLE TUBE	PLACE AT THE LOWEST POINT OF LID AREA	2/L-10.2
*12	EXISTING DOWNSPOUT TO CONVERT TO SURFACE FLOW	--	1/L-10.1
13	LATERAL PIPE	NON-PRESSURE, PVC SCH. 40. INSTALL AS PER PLAN AND DETAILS. SIZE PER CHART	6/L-10.1 1/L-10.2
E	DRIP IRRIGATION SYSTEM	INLINE EMITTERS AND BARBED DRIP EMITTERS. SEE DETAIL FOR MORE INFORMATION	11/L-10.2
LP	LOW POINT 12" BELOW ADJACENT CURB	--	--
HP	HIGH POINT PLANTER AREA NEAR DOWNSPOUTS	--	--
*17	BOULDERS	QUANTITY & SIZE: (5X) 24", (5X) 36". SET 1/2 OF BOULDER BELOW FINISH GRADE. PLACE PER PLAN	--
18	BASALT CHIP	0"-1/2" - 2" THICK. SLOPE TO DRAIN SWALE	--
*19	CONCRETE SPLASH GUARD	12" WIDE X 24" LONG X 3" HIGH	--

*ADD ALTERNATE BID ITEM NOTES

- ITEMS SHOWN WITH AN ASTERISK TO BE BID AS AN ADD ALTERNATE.
- 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.
- THE OWNER HAS THE OPTION OF ACCEPTING NONE, OR ANY NUMBER AND COMBINATION OF BID ALTERNATIVES.
- COORDINATE RELATED WORK AND MODIFY SURROUNDING WORK TO INTEGRATE THE WORK OF EACH ALTERNATIVE.

CONSTRUCTION NOTES

- 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.
- INSTALL ALL ELEMENTS PER MANUFACTURERS' SPECIFICATIONS.
- PROVIDE A COMPLETE SET OF LITERATURE CUT SHEETS FOR LANDSCAPE ARCHITECT'S APPROVAL.
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- ANY CHANGES SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
- 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.
- 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.
- CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR ANY DAMAGES MADE TO EXISTING UTILITIES AND HARDSCAPE AT NO ADDITIONAL COST TO THE OWNER.



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LICENSE



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CLIENT

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

PROJECT

DROPS:
FAIRVIEW
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-4.0

SHEET 8 OF 16

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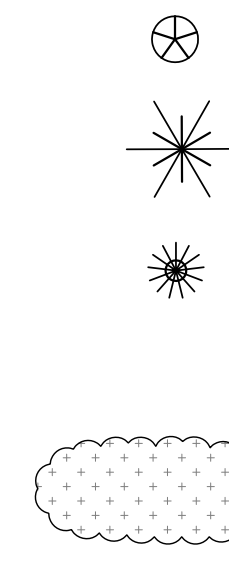
UNDERGROUND
SERVICE ALERT
of Northern California
Call: TOLL FREE
1-800-227-2600

TWO WORKING DAYS BEFORE YOU DIG

Plot Date: November 04, 2016 - 2:49 pm File Name: G:\MDG(2200-2299)\2265 CUSD DROPS\2265 CAD\2265 CDs\2265 CD Fairview Planting Plan.dwg

PLANTING LEGEND

SYMBOL	LATIN NAME/ COMMON NAME	CONTAINER SIZE	QTY	REMARKS	WATER USE	DETAIL
SHRUBS						
S-1	JUNCUS INFLEXUS 'BLUE ARROWS' BLUE ARROWS RUSH	1 GAL	15		M	2/L-10.3
S-2	MUHLENBERGIA RIGENS DEER GRASS	1 GAL	6		L	2/L-10.3
S-3	TYPHACEAE MINIMA DWARF CATTAIL	1 GAL	8		L	2/L-10.3
GROUND COVER						
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.

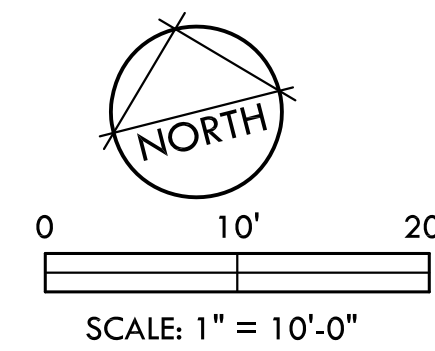
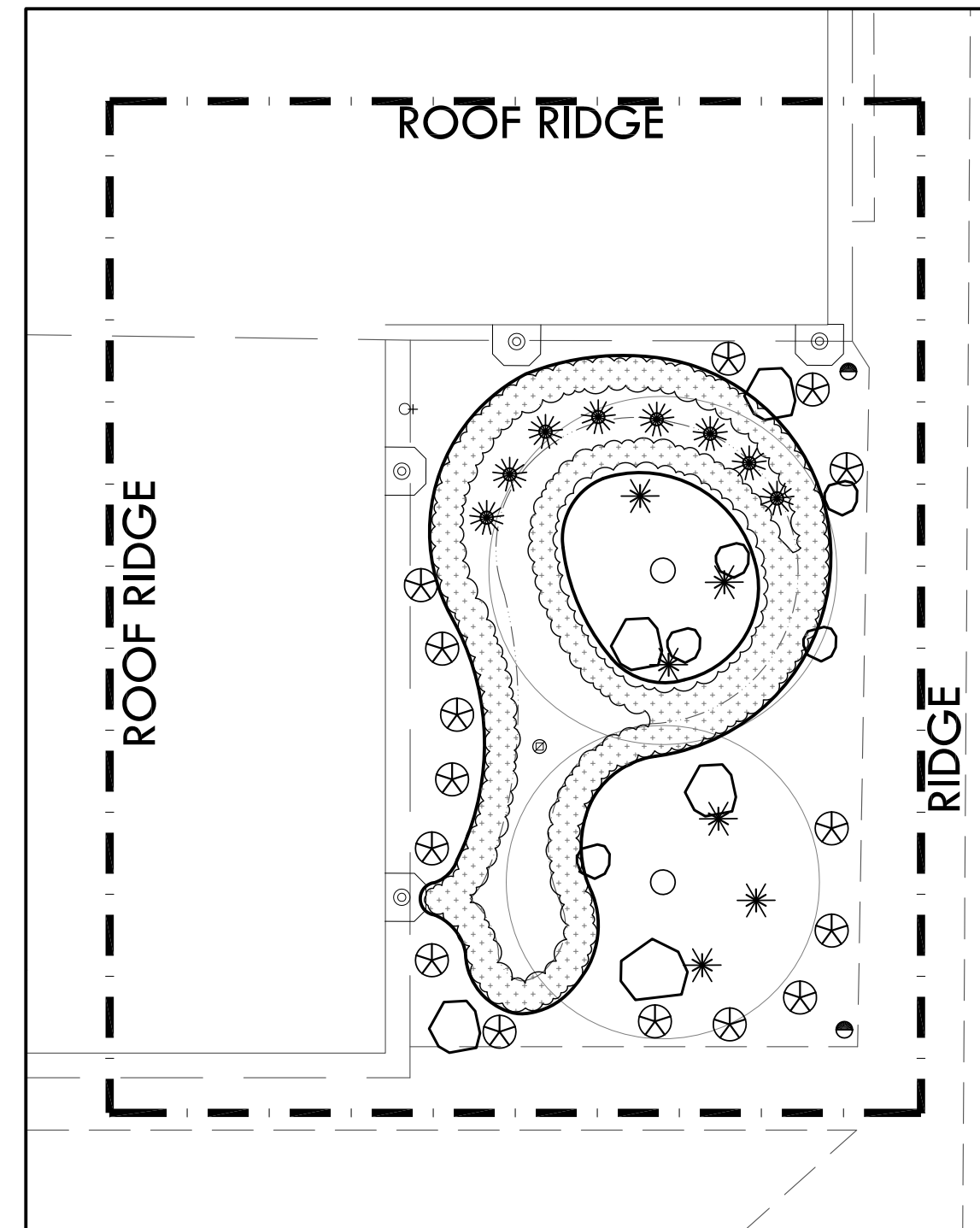
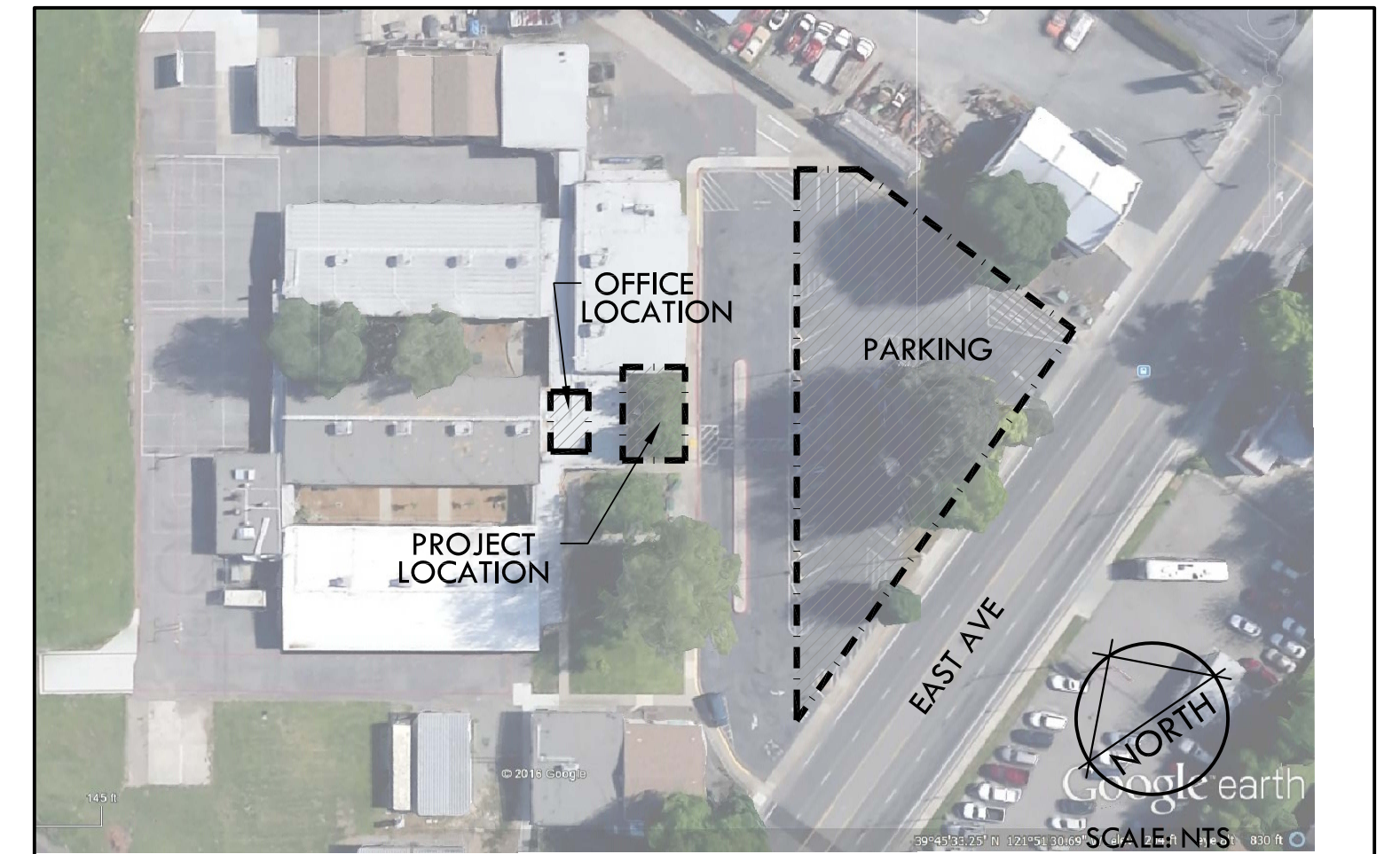
PLANTING NOTES

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.
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.

SITE LOCATION MAP



309 WALL STREET
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LICENSE



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CHICO, CA 95928

PROJECT

DROPS:
FAIRVIEW
HIGH 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-4.1

SHEET 9 OF 16

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TWO WORKING DAYS BEFORE YOU DIG

L.I.D. AREA SUMMARY

LID PROJECT	CONTRIBUTING IMPERVIOUS SURFACE		OWP SIZING TOOL RESULTS**		DESIGN RESULTS					
	ACRES	SQ. FT.	ACRES	SQ. FT.	DESIGN LEVEL LID		RETAINED STORM WATER	NEW IMPERVIOUS SURFACE		VOLUME
PLAY GROUND AREA	.300	13,057	.014	630	.026	1,727	179.8	.264	11,924	3,399

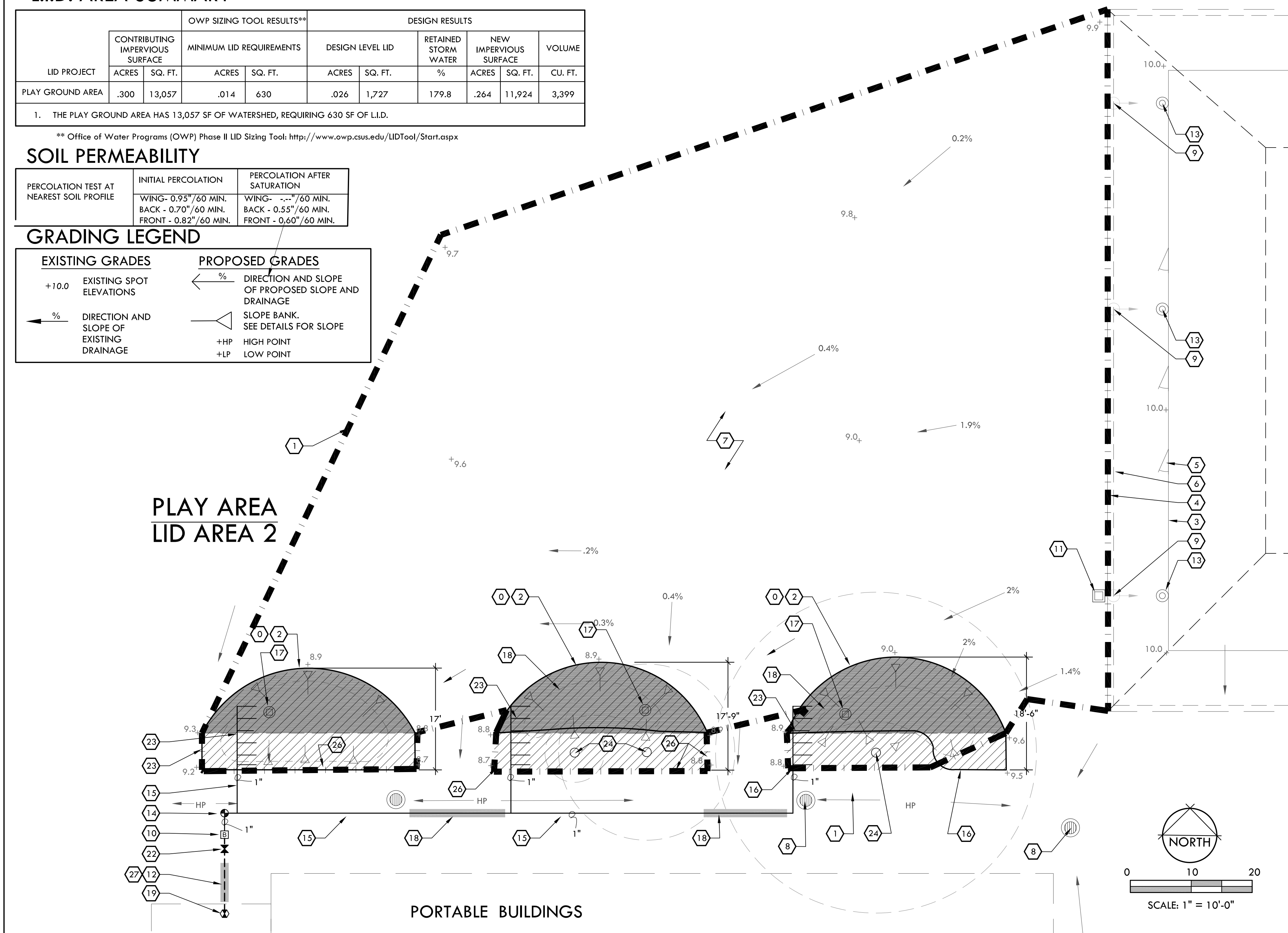
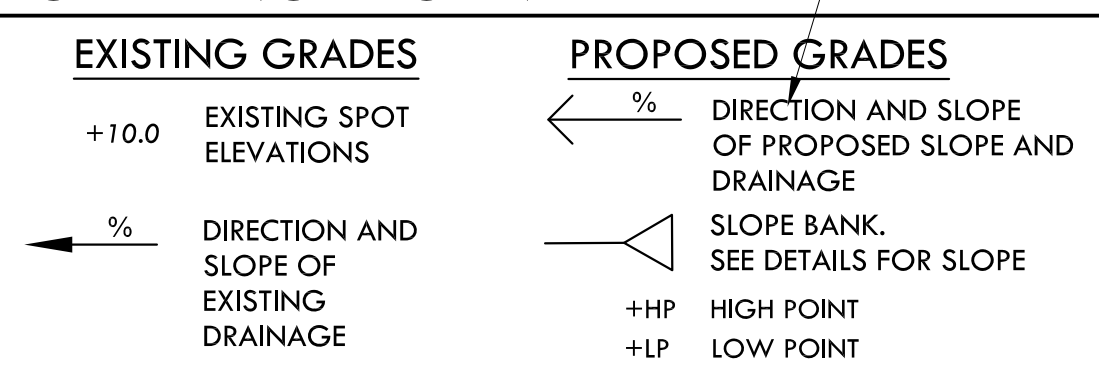
1. THE PLAY GROUND AREA HAS 13,057 SF OF WATERSHED, REQUIRING 630 SF OF L.I.D.

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

SOIL PERMEABILITY

PERCOLATION TEST AT NEAREST SOIL PROFILE	INITIAL PERCOLATION	PERCOLATION AFTER SATURATION
	WING- 0.95"/60 MIN. BACK - 0.70"/60 MIN. FRONT - 0.82"/60 MIN.	WING- ---"/60 MIN. BACK - 0.55"/60 MIN. FRONT - 0.60"/60 MIN.

GRADING LEGEND



CONSTRUCTION LEGEND

SYMBOL	DESCRIPTION	MODEL/REMARKS	DETAIL
0	DEMO ASPHALT AREA AND REMOVE OFF SITE	--	--
1	WATERSHED AREA	RETAIN AND PROTECT	--
2	PROJECT AREA (L.I.D.)	EXCAVATE PER DETAIL, AND STOCKPILE ON SITE FOR POTENTIAL FUTURE USE. REMOVE EXCESS UPON PROJECT COMPLETION. SEE DETAIL FOR MORE INFORMATION	4, 7 / L-10.1
3	EXISTING BUILDING WALL	RETAIN AND PROTECT	--
4	EXISTING ROOFLINE	RETAIN AND PROTECT	--
5	EXISTING CLASSROOM DOORS	-	--
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 DOWNSPOUT	RETAIN AND PROTECT	--
10	RP BACKFLOW DEVICE WILKINS 975XL	3/4" POTABLE WATER RP BACKFLOW DEVICE TO DRINKING FOUNTAINS. INSTALL PER PLANS, DETAILS AND SPECIFICATIONS.	7/L-10.0
11	EXISTING UTILITIES	IRRIGATION, WATER MAIN, ELECTRICAL BOXES ETC. RETAIN AND PROTECT	--
12	IRRIGATION SLEEVE, 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
13	EXISTING DOWNSPOUT ON WALL	RETAIN AND PROTECT	--
14	NEW REMOTE CONTROL VALVE	BATTERY OPERATED NODE-400, WITH HUNTER ICZ-101. SEE IRRIGATION APPROACH, THIS PAGE.	5/L-10.2
15	LATERAL PIPE	PROTECT AND USE EXISTING LATERAL THAT CAN BE SALVAGED. OTHERWISE REPLACE IF NEEDED.	6/L-10.1 1/L-10.2
16	EXISTING CURB	RETAIN AND PROTECT.	--
*17	WATER SAMPLE TUBE	PLACE AROUND THE LOWEST AREA OF LID AREA	2/L-10.0
18	EXISTING SLEEVE	RETAIN AND PROTECT. REPLACE AS NEEDED	6/L-10.1
19	POINT OF CONNECTION	CONNECT TO EXISTING MAINLINE NEXT TO HOSE BIB AND DRINKING FOUNTAIN.	
22	ISOLATION VALVE	--	4/L-10.2
23	DRIP IRRIGATION SYSTEM	INLINE EMITTERS AND BARBED DRIP EMITTERS. SEE DETAIL FOR MORE INFORMATION	11/L-10.2
24	EXISTING TREES	RETAIN AND PROTECT. SEE TREE PROTECTION NOTES IN BOOKFORM SPECIFICATIONS	--
25	PRESSURE MAINLINE	PVC SCH-40	6/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**

- ITEMS SHOWN WITH AN ASTERISK TO BE BID AS AN ADD ALTERNATE.
- 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.
- THE OWNER HAS THE OPTION OF ACCEPTING NONE, OR ANY NUMBER AND COMBINATION OF BID ALTERNATIVES.
- COORDINATE RELATED WORK AND MODIFY SURROUNDING WORK TO INTEGRATE THE WORK OF EACH ALTERNATIVE.

CONSTRUCTION NOTES

- 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.
- INSTALL ALL ELEMENTS PER MANUFACTURERS' SPECIFICATIONS.
- PROVIDE A COMPLETE SET OF LITERATURE CUT SHEETS FOR LANDSCAPE ARCHITECT'S APPROVAL.
- CONTRACTOR IS RESPONSIBLE TO COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- CONSTRUCTION SHALL CONFORM TO ALL UNIFORM BUILDING CODE, 2013 EDITION, AND SPECIFICATIONS.
- CONTRACTOR SHALL OBSERVE ALL SAFETY REGULATIONS PERTAINING TO THIS PROJECT.
- ANY CHANGES SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
- 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.
- 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.
- CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR ANY DAMAGES MADE TO EXISTING UTILITIES AND HANDSCAPE AT NO ADDITIONAL COST TO THE OWNER.

IRRIGATION APPROACH

CONNECT TO MAINLINE AT EXISTING HOSE BIB NEAR WATER FOUNTAIN, INSTALL BACKFLOW PREVENTER, ISOLATION VALVE AND REMOTE CONTROL VALVE IN PROJECT PLANTER. RETAIN AND PROTECT EXISTING LATERALS AND SLEEVES.

IRRIGATION NOTES

- 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.
- 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.
- 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.
- CONTRACTOR TO PROVIDE COMPLETE 'AS-BUILT' DRAWINGS TO CLIENT AT COMPLETION OF PROJECT.
- 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.
- ALL REMOTE CONTROL VALVES SHALL BE INSTALLED IN LOCKABLE VALVE BOXES.
- CONTRACTOR IS RESPONSIBLE IRRIGATION TO EACH PLANT. ADJUST HEADS, OR ADD DRIP LINE AS REQUIRED AT NO ADDITIONAL COST TO THE CLIENT.
- SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

GRADING NOTES

- 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.
- BACKFILL DRAINLINE TRENCHES WITH CLEAN SOIL FREE OF ROCK AND DEBRIS 3/4" OR LARGER. COMPACT BACKFILL TO ELIMINATE TRENCH SETTLING TO 90% UNDER ALL CONCRETE AND 80% IN LANDSCAPE AREA.
- 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.
- EXCEPT FOR TRENCHES, CLASS II AGG BASE TO MAKE GRADE IN ALL "FILL" AREAS UNDER CONCRETE OR ASPHALT.
- ALL TOP SOIL IN PLANTING TO BE AMENDED PER SPECIFICATIONS.
- FINAL GRADE AT EDGE OF ASPHALT TO BE 2 1/2" BELOW CONCRETE AND TOP OF WALL TO ALLOW FOR SURFACE MATERIAL.
- CONTRACTOR TO VISIT SITE AND CONFIRM EXISTING GRADES REQUIRE MINIMAL EXCAVATION OR FILL TO MEET NEW GRADE



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LICENSE



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CHICO, CA 95928

PROJECT

DROPS:
ROSEDALE
ELEMENTARY
PLAY AREA

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

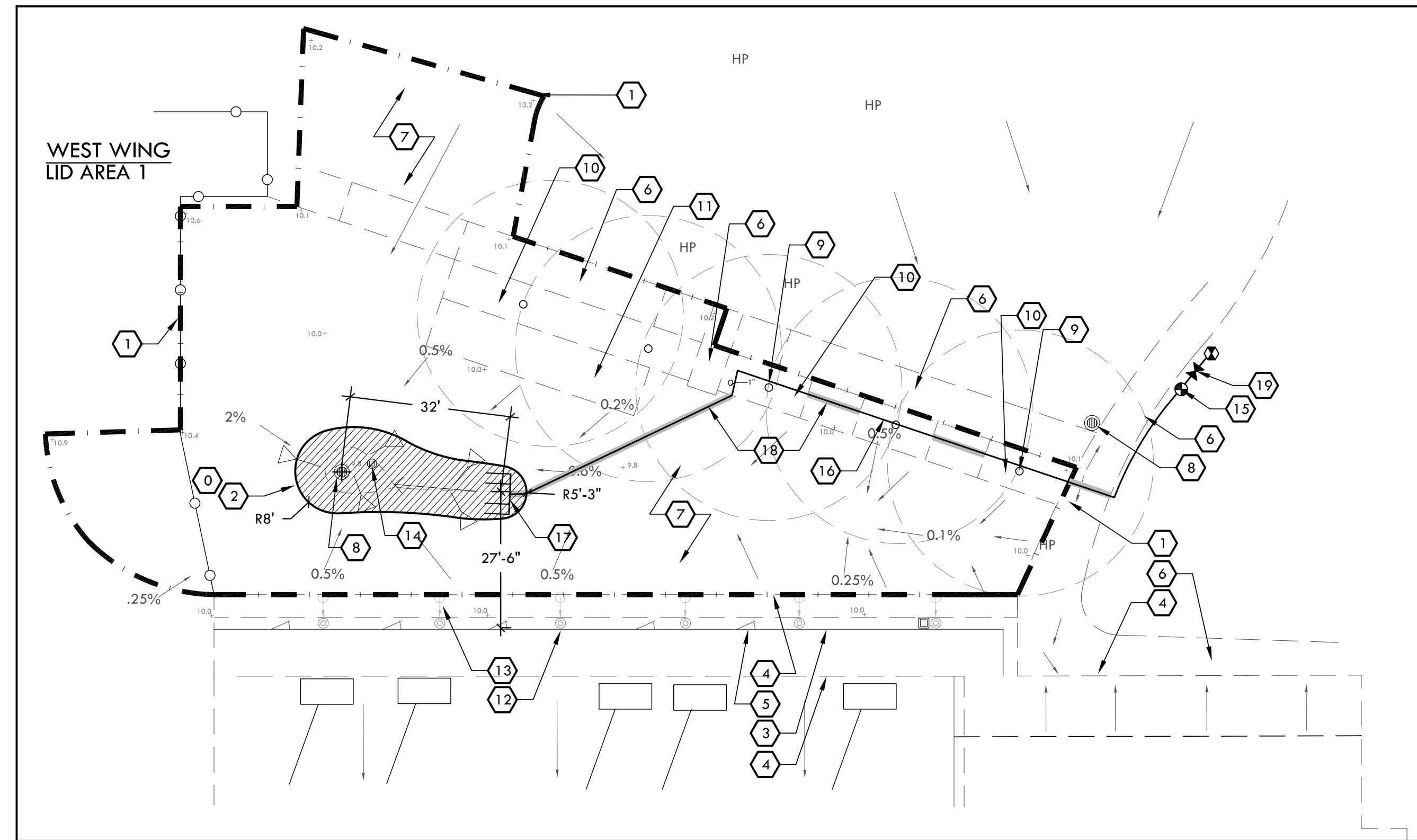
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SHEET 10 OF 16
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Plot Date: November 04, 2016 - 2:31 pm File Name: G:\MDG(2200-2299)\2265 CUSD DROPS\2265 CAD\2265 CDs\2265 CD Rosedale\2265 Rosedale Const.dwg

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

- 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 POT HOLE IF NECESSARY.
- BACKFILL DRAINLINE TRENCHES WITH CLEAN SOIL FREE OF ROCK AND DEBRIS 1/2" OR LARGER. COMPACT BACKFILL TO ELIMINATE TRENCH SETTLING TO 90% UNDER ALL CONCRETE AND 80% IN LANDSCAPE AREA.
- 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.
- EXCEPT FOR TRENCHES, CLASS II AGG. BASE TO MAKE GRADE IN ALL "FILL" AREAS UNDER ASPHALT AND CONCRETE.
- ALL SOIL IN PLANTING TO BE AMENDED PER SPECIFICATIONS.
- FINAL GRADE AT EDGE OF ASPHALT TO BE 2 1/2" BELOW CONCRETE AND TOP OF WALL TO ALLOW FOR SURFACE MATERIAL.

IRRIGATION APPROACH

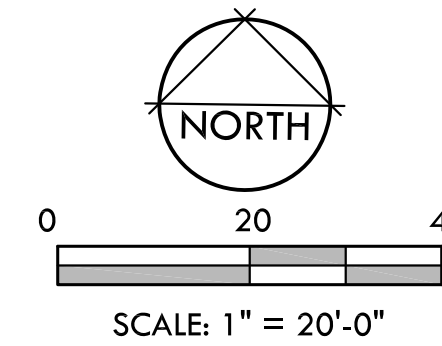
REPLACE EXISTING VALVE WITH NEW HUNTER DRIP ZONE KIT AND BATTERY OPERATED CONTROLLER, IN TURF AREA. RUN LATERAL THROUGH TREE PLANTER BEDS AS SHOWN, AVOID EXISTING ROOTS WHERE POSSIBLE. SEE TREE PROTECTION NOTES IN BID FORM SPECIFICATIONS. CUT THROUGH EXISTING ASPHALT TO IRRIGATE LID AREA AS SHOWN. PATCH ASPHALT PER PLAN.

L.I.D. AREA SUMMARY

LID PROJECT	CONTRIBUTING IMPERVIOUS SURFACE		OWP SIZING TOOL RESULTS**		DESIGN RESULTS					
	ACRES	SQ. FT.	MINIMUM LID REQUIREMENTS		DESIGN LEVEL LID		RETAINED STORM WATER	NEW IMPERVIOUS SURFACE		VOLUME CU. FT.
			ACRES	SQ. FT.	ACRES	SQ. FT.	%	ACRES	SQ. FT.	
FRONT	.278	12,098	.013	583	.014	594	101.9	.264	11,504	1,782

- THE NORTH WING AREA HAS 12,098 SF OF WATERSHED, WHICH REQUIRES 583 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

- 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.
- 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.
- 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.
- CONTRACTOR TO PROVIDE COMPLETE "AS-BUILT" DRAWINGS TO CLIENT AT COMPLETION OF PROJECT.
- TRENCH ALL 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.
- ALL REMOTE CONTROL VALVES SHALL BE INSTALLED IN LOCKABLE VALVE BOXES.
- CONTRACTOR IS RESPONSIBLE FOR IRRIGATION TO EACH PLANT. ADJUST HEADS, OR ADD DRIP LINE AS REQUIRED AT NO ADDITIONAL COST TO THE CLIENT.
- SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

SOIL PERMEABILITY

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

CONSTRUCTION NOTES

- 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.
- INSTALL ALL ELEMENTS PER MANUFACTURERS' SPECIFICATIONS.
- PROVIDE A COMPLETE SET OF LITERATURE CUT SHEETS FOR LANDSCAPE ARCHITECT'S APPROVAL.
- CONTRACTOR IS RESPONSIBLE TO COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- CONSTRUCTION SHALL CONFORM TO ALL UNIFORM BUILDING CODE, 2013 EDITION, AND SPECIFICATIONS.
- CONTRACTOR SHALL OBSERVE ALL SAFETY REGULATIONS PERTAINING TO THIS PROJECT.
- ANY CHANGES SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
- 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.
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- 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
①	REMOVE ASPHALT AND DISPOSE OF OFF SITE	--	--
①	WATERSHED AREA	RETAIN AND PROTECT	--
②	PROJECT AREA (L.I.D.)	EXCAVATE PER DETAIL, AND STOCKPILE ON SITE FOR POTENTIAL FUTURE USE. REMOVE EXCESS UPON PROJECT COMPLETION. SEE DETAIL FOR MORE INFORMATION	4,7 /L-10.1
③	EXISTING BUILDING WALL	RETAIN AND PROTECT	--
④	EXISTING ROOFLINE	RETAIN AND PROTECT	--
⑤	EXISTING CLASSROOM DOORS	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 TREE	RETAIN AND PROTECT. SEE TREE PROTECTION NOTES IN BOOKFORM SPECIFICATIONS	--
⑩	EXISTING GARDEN BED	RETAIN AND PROTECT	--
⑪	EXISTING BIKE RACK AREA	RETAIN AND PROTECT	--
⑫	ROOF DRAIN	RETAIN AND PROTECT	--
⑬	DOWNSPOUT	RETAIN AND PROTECT	--
⑭*	WATER SAMPLE TUBE	PLACE AROUND THE LOWEST AREA OF LID AREA	2/L-10.0
⑮	NEW REMOTE CONTROL VALVE WITH DRIP ZONE	BATTERY OPERATED HUNTER ICZ-25. NODE CONTROLLER NODE-400. SEE IRRIGATION APPROACH, THIS PAGE.	5/L-10.2
⑯	LATERAL PIPE	NON-PRESSURE, PVC SCH. 40. INSTALL AS PER PLAN AND DETAILS. SIZE PER CHART	6/L-10.1 1/L-10.2
⑰	DRIP IRRIGATION SYSTEM	INLINE EMITTERS AND BARBED DRIP EMITTERS. SEE DETAIL FOR MORE INFORMATION	11/L-10.2
⑱	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
⑲	ISOLATION VALVE	--	4/L-10.2

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

*ADD ALTERNATE BID ITEM NOTES

- ITEMS SHOWN WITH AN ASTERISK TO BE BID AS AN ADD ALTERNATE.
- 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.
- THE OWNER HAS THE OPTION OF ACCEPTING NONE, OR ANY NUMBER AND COMBINATION OF BID ALTERNATIVES.
- COORDINATE RELATED WORK AND MODIFY SURROUNDING WORK TO INTEGRATE THE WORK OF EACH ALTERNATIVE.



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PROJECT

DROPS:
ROSEDALE
ELEMENTARY
FRONT

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-5.1

SHEET 11 OF 16

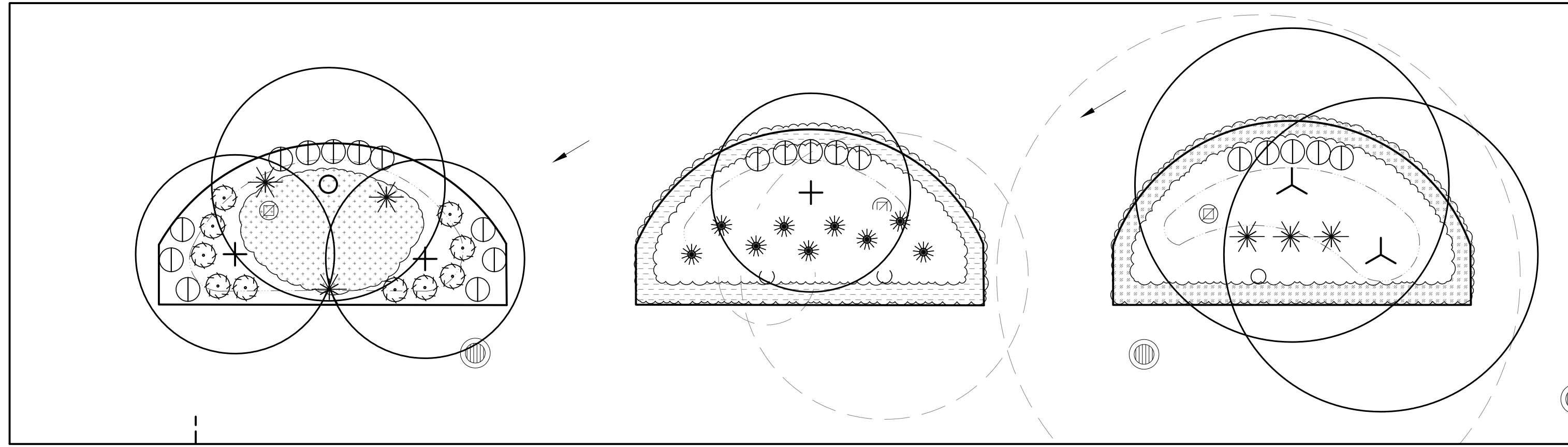
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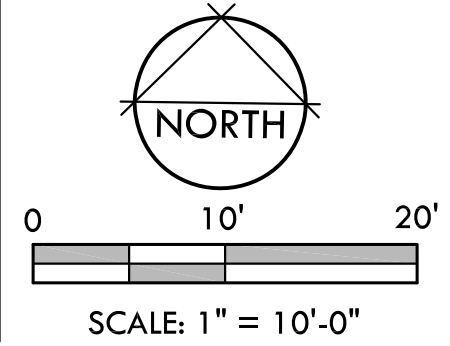
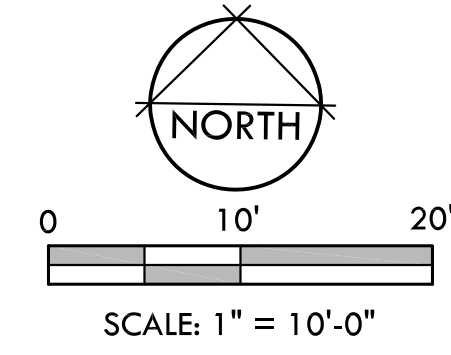
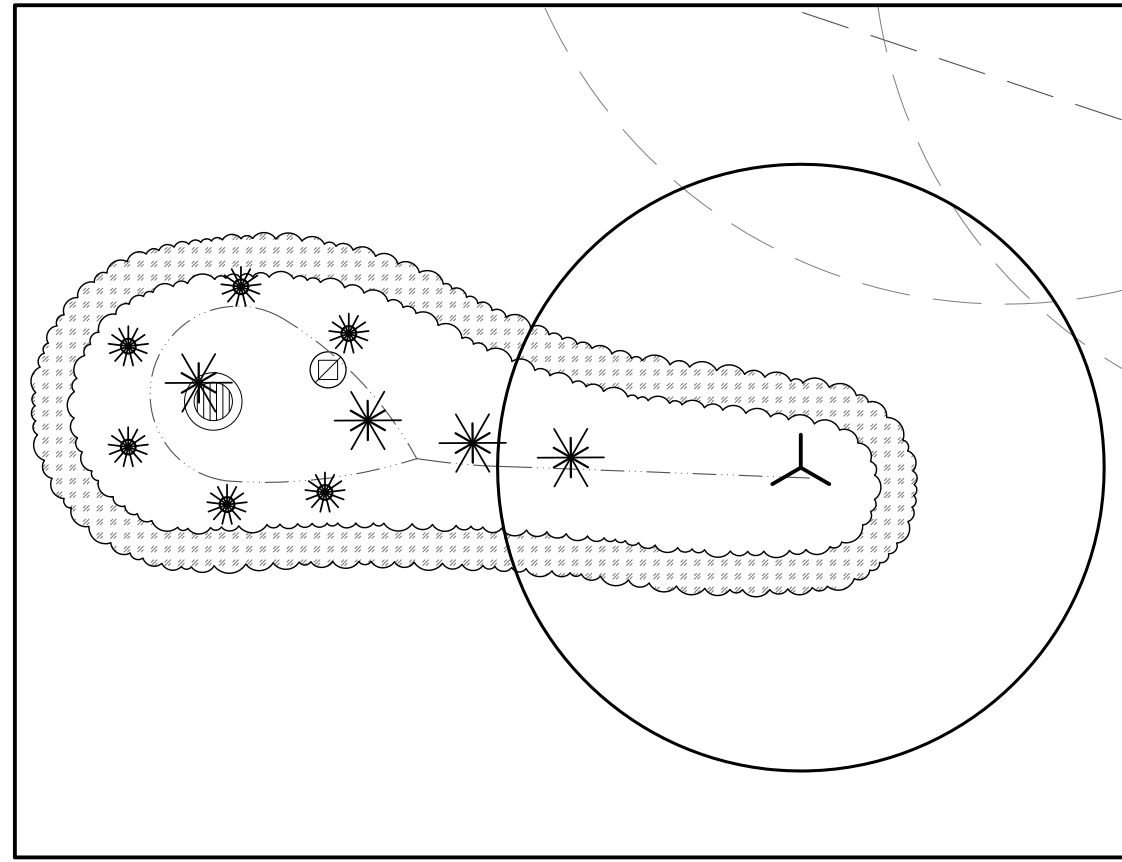
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TWO WORKING DAYS BEFORE YOU DIG

PLAY AREA



FRONT



PLANTING LEGEND

SYMBOL	LATIN NAME/ COMMON NAME	CONTAINER SIZE	QTY	REMARKS	WATER USE	DETAIL
TREE						
(Symbol)	ACER X FREEMANII 'JEFFERSRED' AUTUMN BLAZE MAPLE	15 GAL	3	STANDARD	M	1/L-10.3
(Symbol)	ALNUS RHOMBIFOLIA WHITE ALDER	15 GAL	1	STANDARD	M	1/L-10.3
(Symbol)	FRAXINUS LATIFOLIA OREGON ASH	15 GAL	3	STANDARD	M	1/L-10.3
SHRUBS						
S-1	LEYMUS CONDENSATUS 'CANYON PRINCE' CANYON PRINCE WILD RYE	1 GAL	10		L	2/L-10.3
S-2	MUHLBERGIA RIGENS DEER GRASS	1 GAL	10		L	2/L-10.3
S-3	TYPHACEAE TYPHA LAXMANII DWARF CATTAIL	1 GAL	23		L	2/L-10.3
S-4	JUNCUS INFLEXUS 'BLUE ARROWS' BLUE ARROWS RUSH	1 GAL	21		M	2/L-10.3
GROUNDCOVER						
G-1	CAREX DIVULSA BERKELEY SEDGE	PLUG	PER AREA	12" O.C.	L	3/L-10.3
G-2	FRAGARIA CHILOENSIS BEACH STRAWBERRY	PLUGS	PER AREA	12" O.C.	M	3/L-10.3
G-3	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.

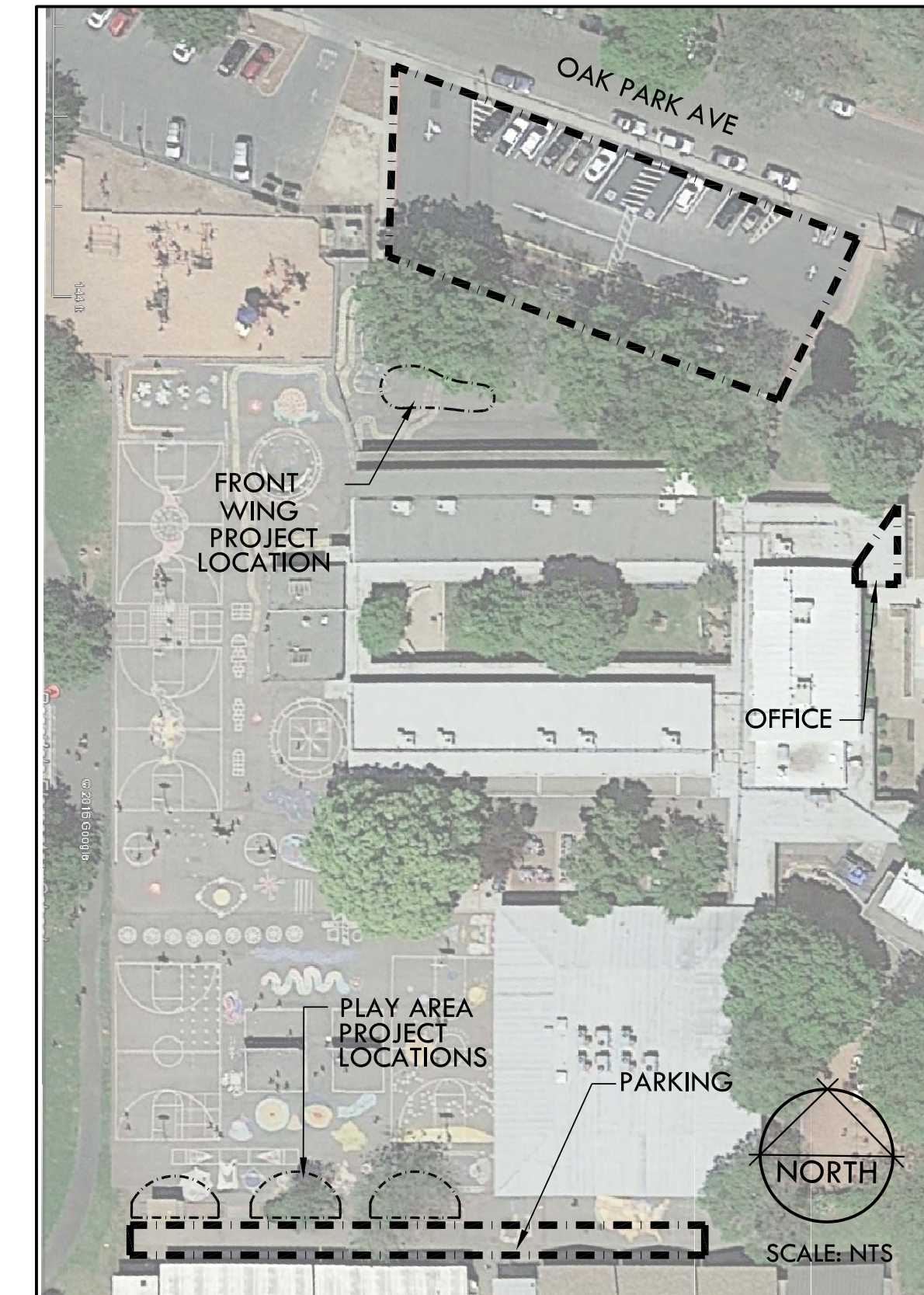
PLANTING NOTES

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.
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.

SITE LOCATION MAP



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PROJECT
**DROPS:
ROSEDALE
ELEMENTARY
PLAY AREA**

SHEET TITLE
**PLANTING
PLAN**

DATES

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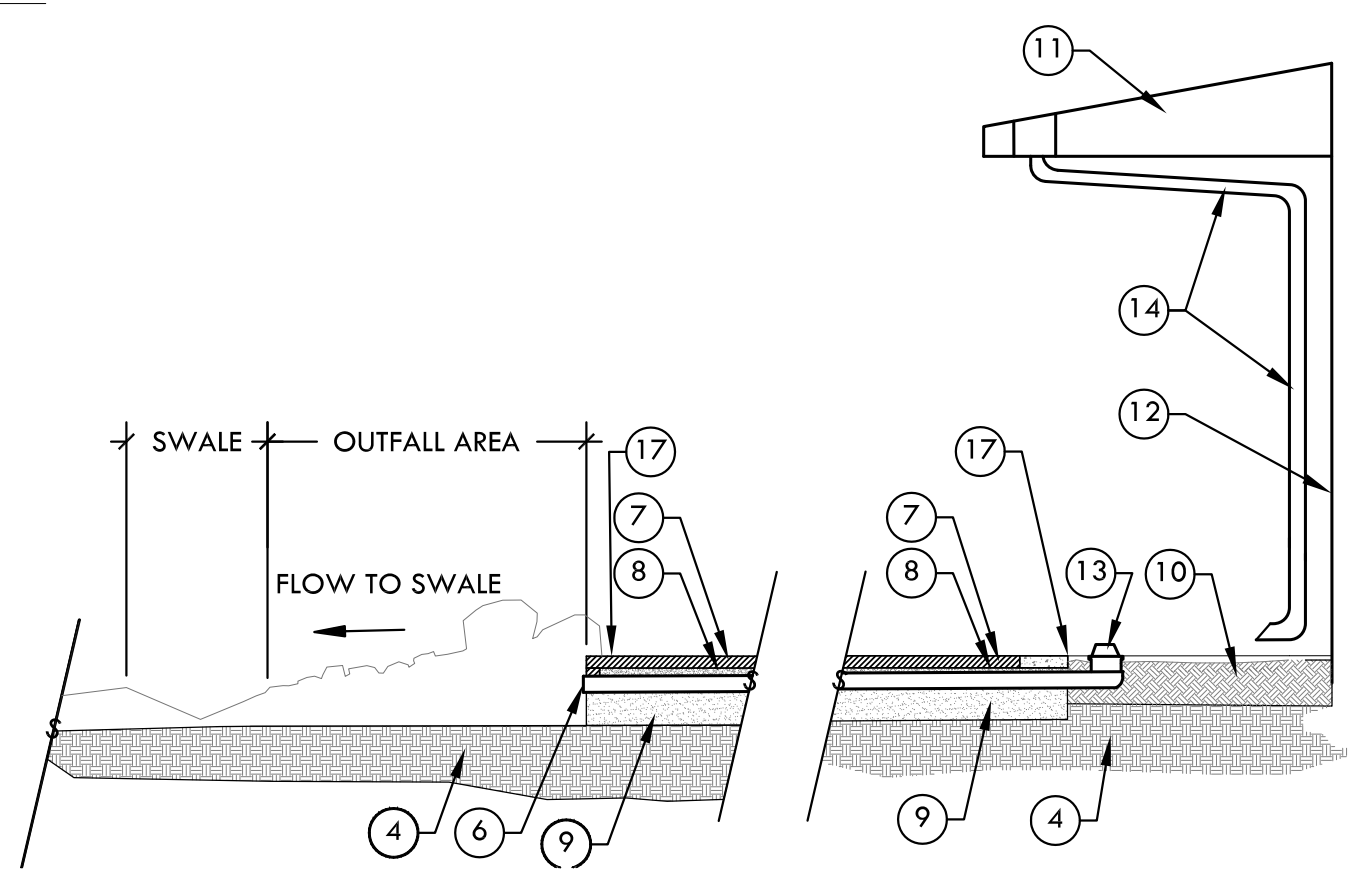
PLOT DATE: 11/4/2016

PROJECT NUMBERS
MELTON DESIGN GROUP: 2265
CONSULTANT PROJECT #:

SHEET NUMBER

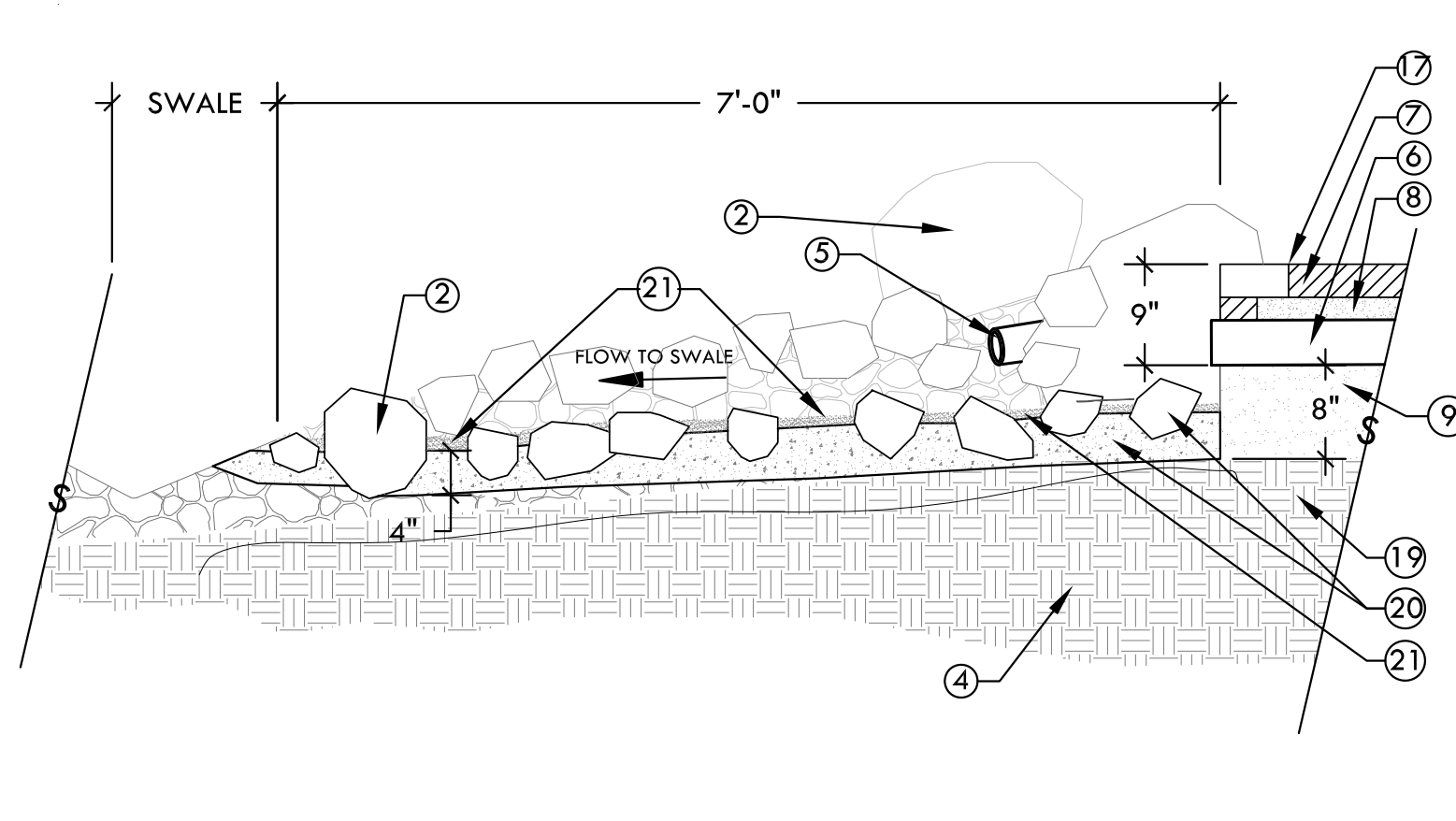
L-5.2

SHEET 12 OF 16
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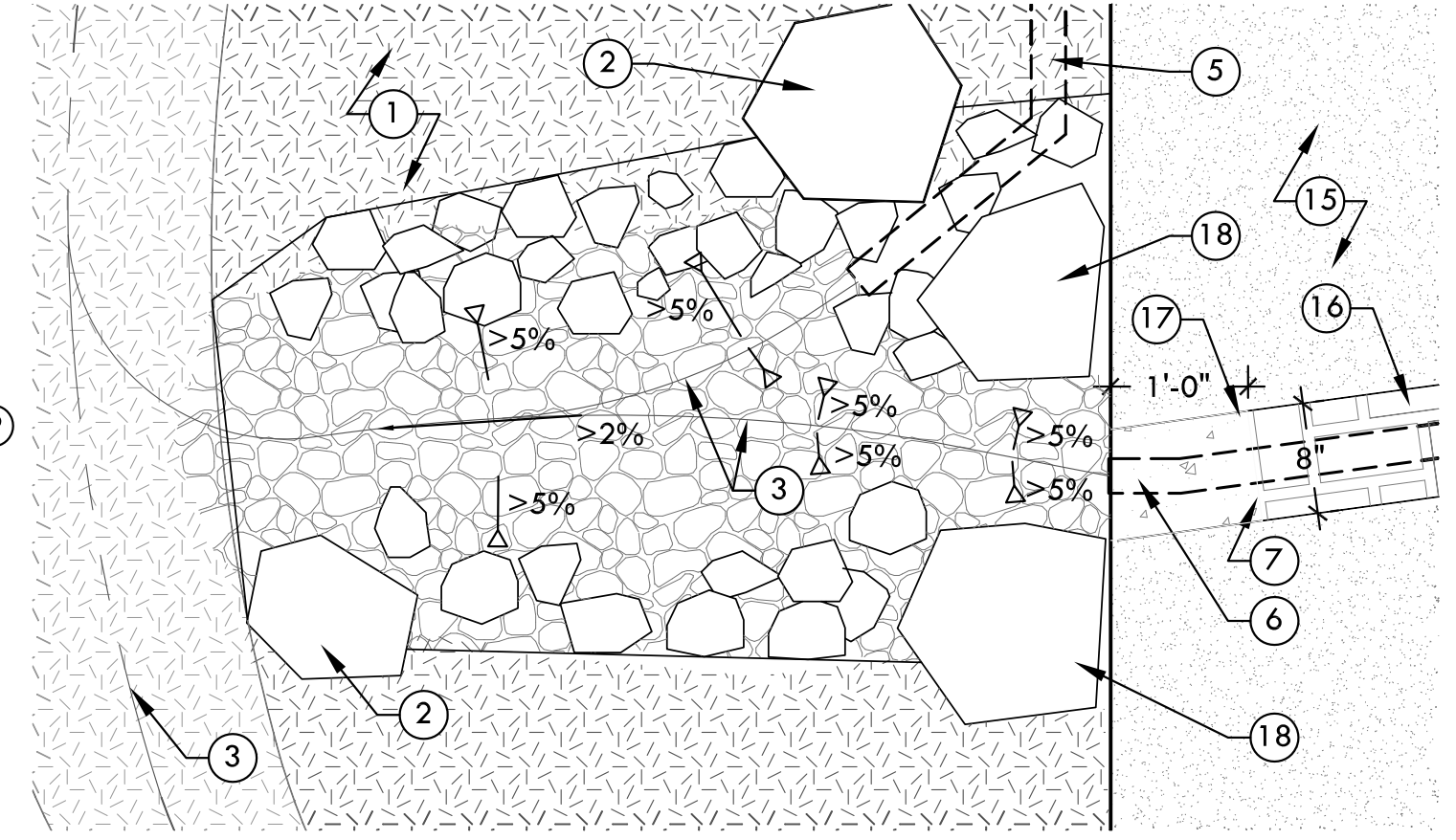
ROOF DRAIN TO RAIN GARDEN
SCALE: 1/4" = 1'-0"

- 1 2" LAYER OF 0-1/2" BASALT CHIP
- 2 18"-24" FIELD STONE BOULDERS. BURY 1/3 OF BOULDER AND ANCHOR IN CONCRETE
- 3 FLOW LINE
- 4 NATIVE SOIL



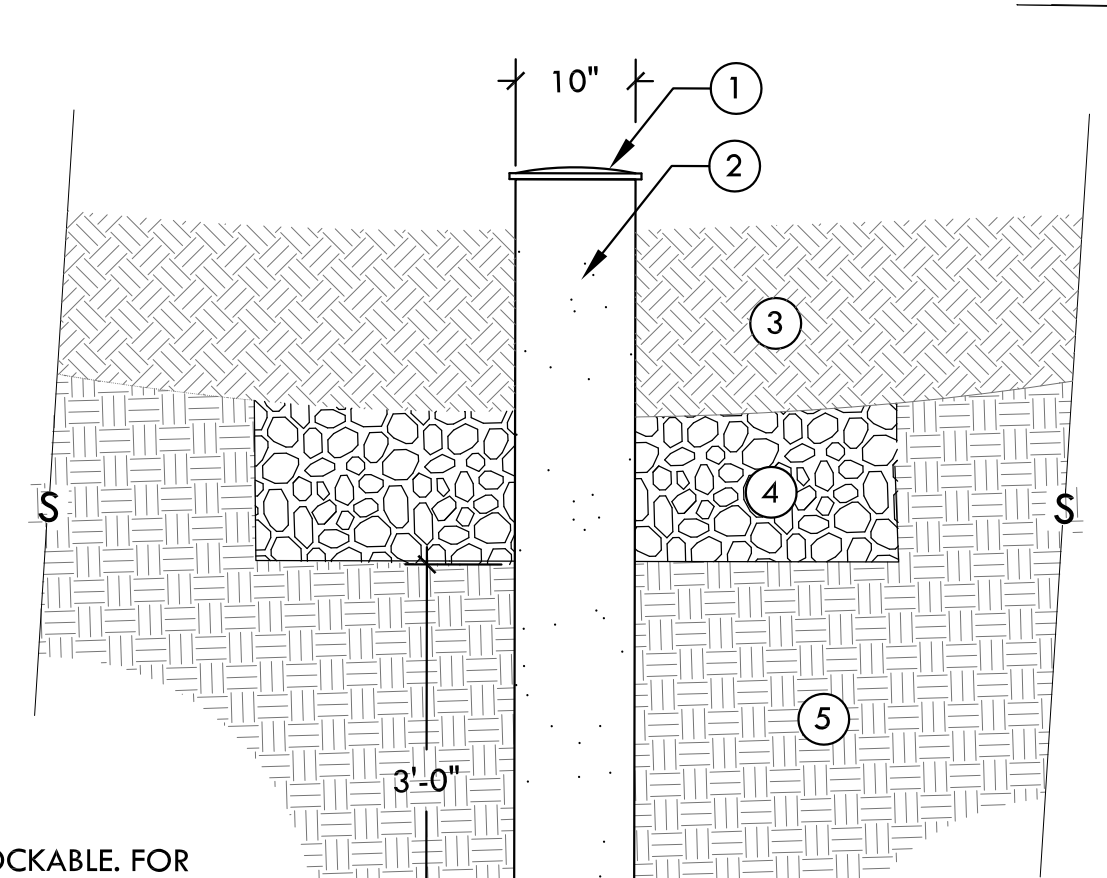
OUTFLOW SECTION
SCALE: 3/4" = 1'-0"

- 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



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

- 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 1/2" BASALT CHIP SPRINKLED ON TOP OF CONCRETE AND AROUND COBBLE WHILE WET

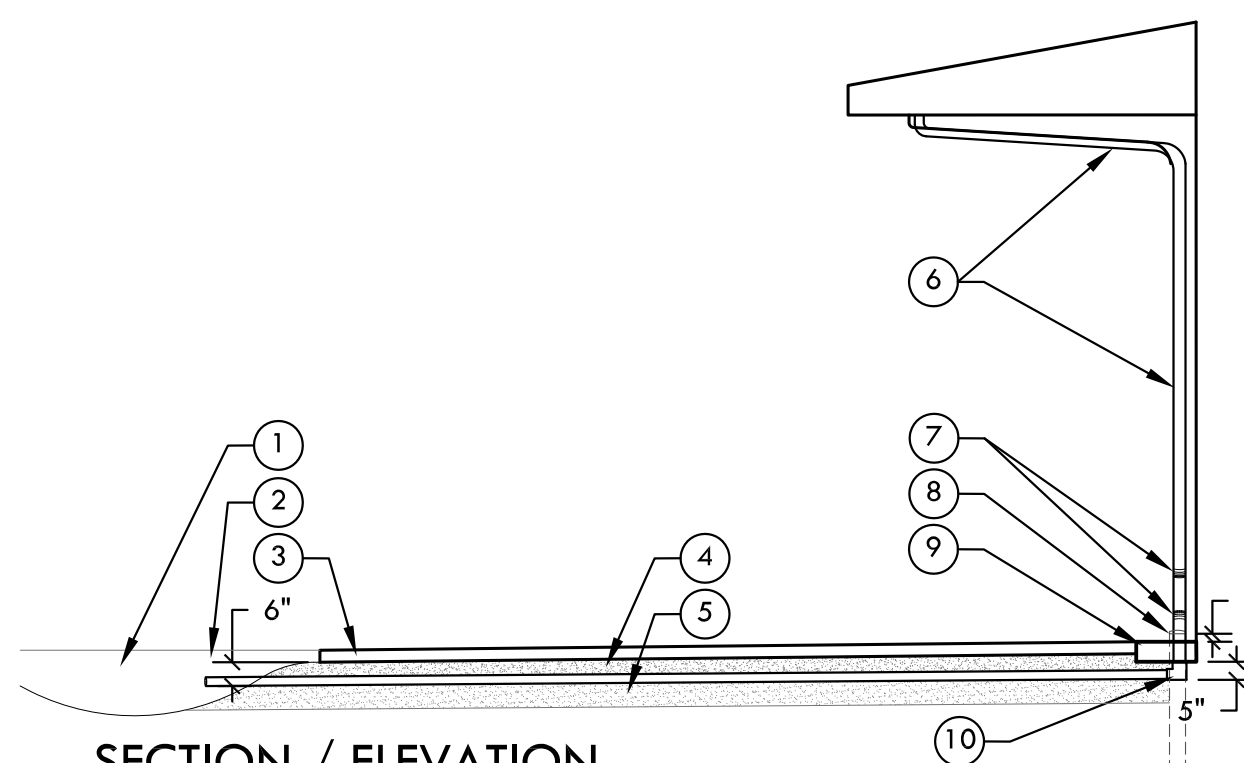


WATER SAMPLE TUBE
SCALE: 3/4" = 1'-0"

- 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

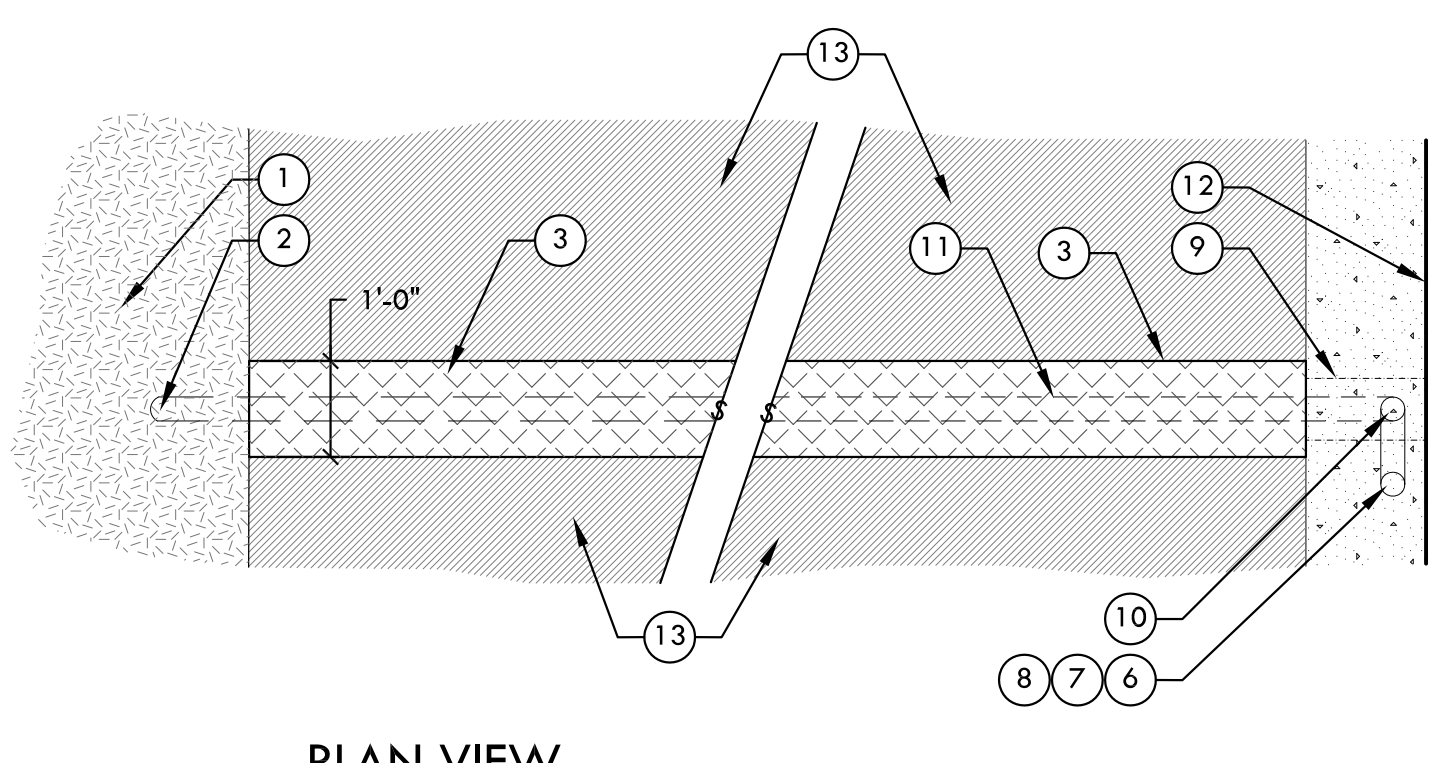
1 DOWNSPOUT TO BIOSWALE - CHAPMAN ELEMENTARY SCHOOL ENTRY

L-10.0



SECTION / ELEVATION
SCALE: 1/4" = 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



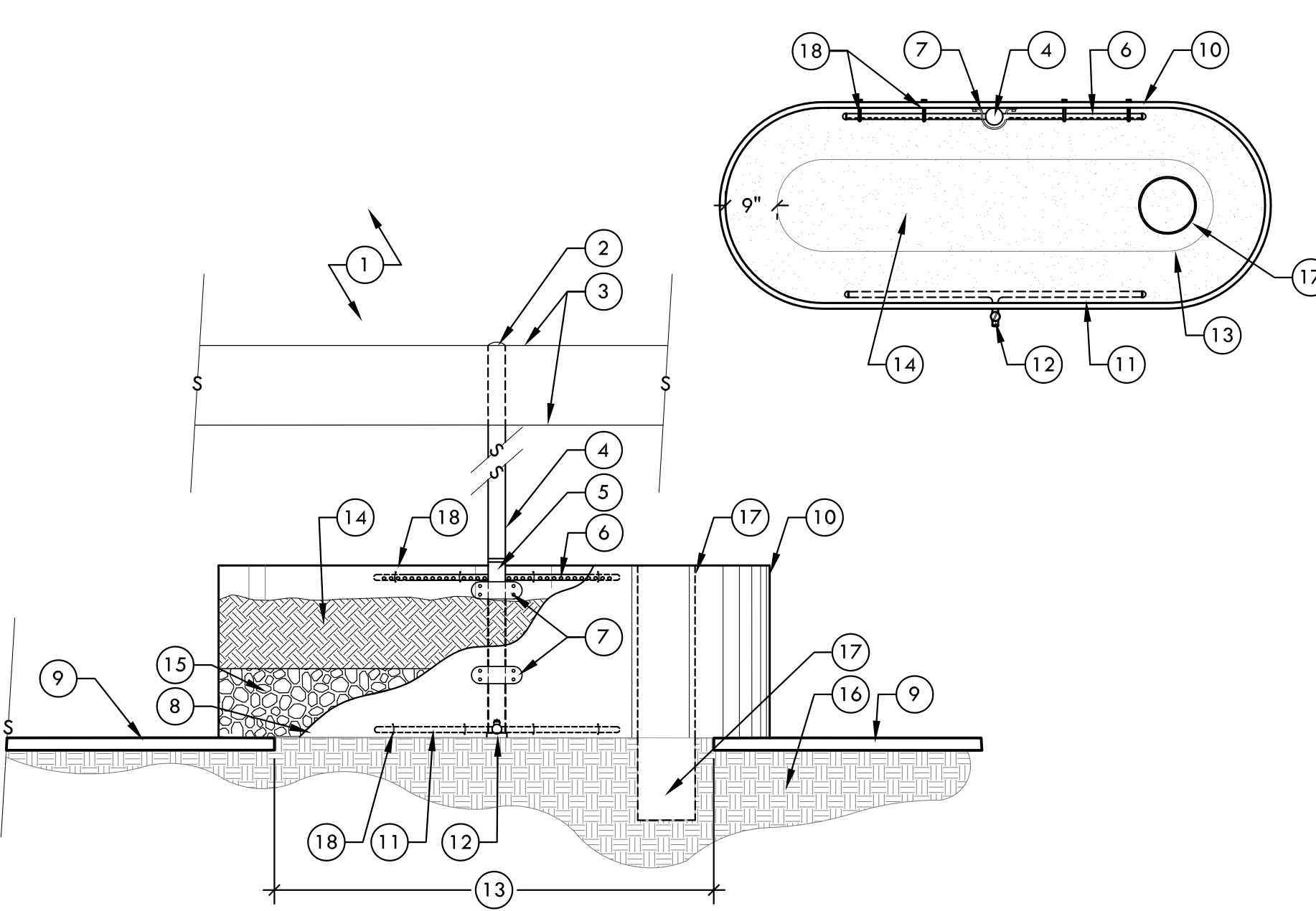
PLAN VIEW
SCALE: 1/2" = 1'-0"

- 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.

- 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 1/2" 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, 1/2", 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 1/2" 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 1/2" DRAINAGE PIPING. U-BOLT OR APPROVED OTHER

2 WATER SAMPLE TUBE

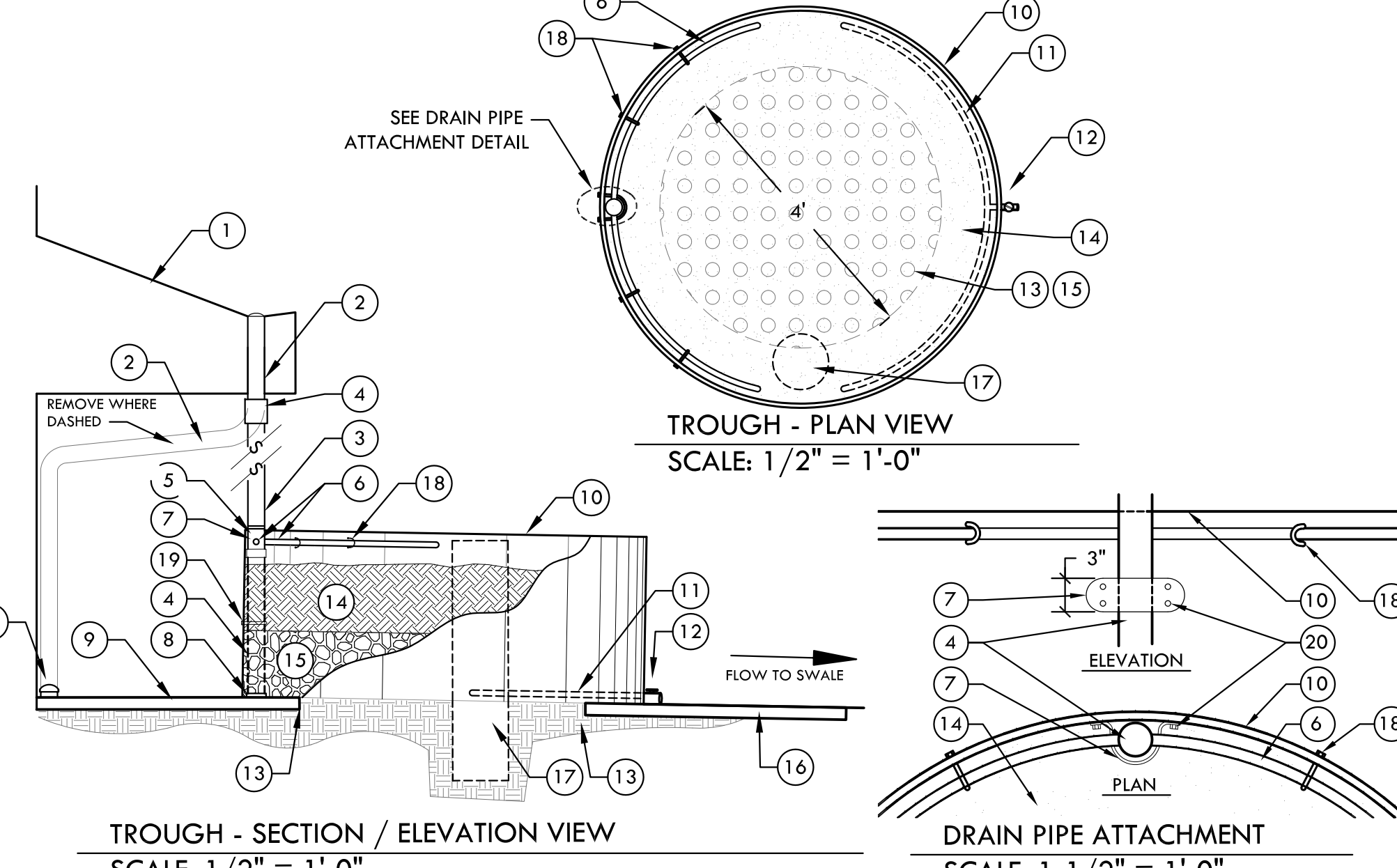
L-10.0 SCALE: 3/4" = 1'-0" * ADD ALTERNATE



3 DOWNSPOUT EXTENSION TO L.I.D. AREA

L-10.0 * 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 1/2" 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 1/2' 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, 1/2", 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 1 1/2" 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 3/4" GALVANIZED CARRIAGE BOLTS. NUTS ON INSIDE OF TANK TO RESTRICT VANDALISM

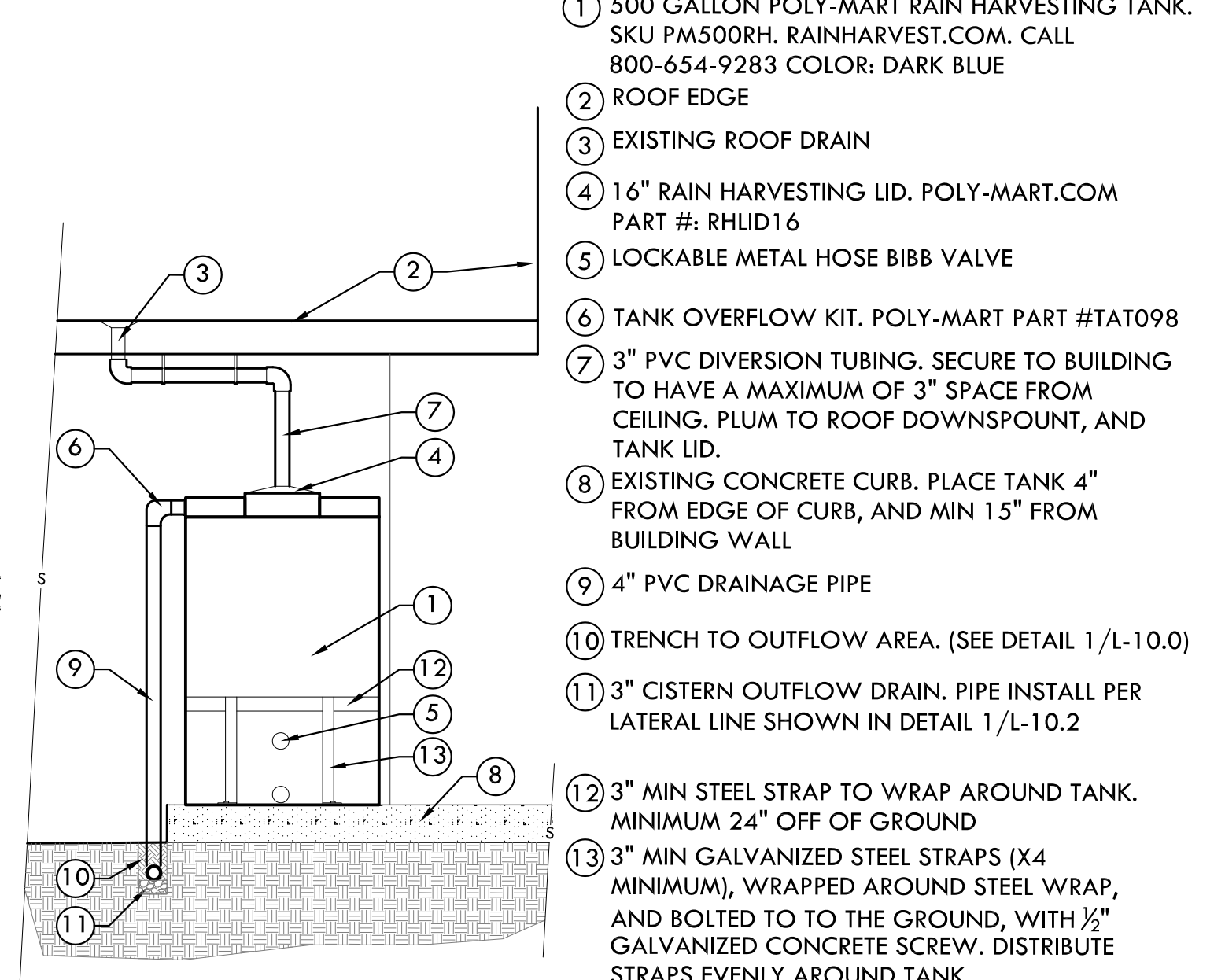


TROUGH - SECTION / ELEVATION VIEW
SCALE: 1/2" = 1'-0"

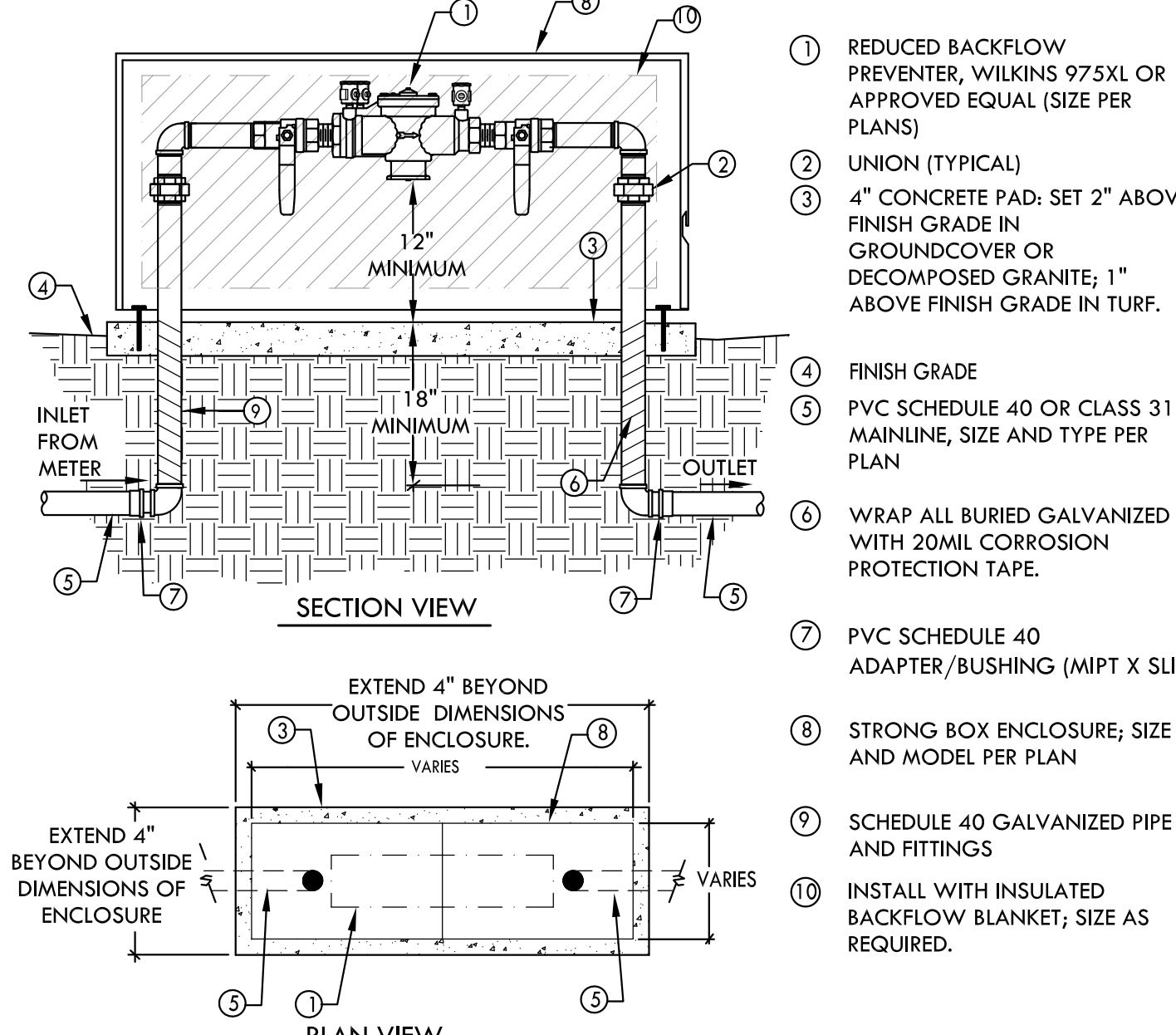
DRAIN PIPE ATTACHMENT
SCALE: 1-1/2" = 1'-0"

4 ROOF WATER FILTRATION TROUGH - RECTANGULAR

L-10.0 SCALE: 1/2" = 1'-0"



6 CISTERN
SCALE: NTS



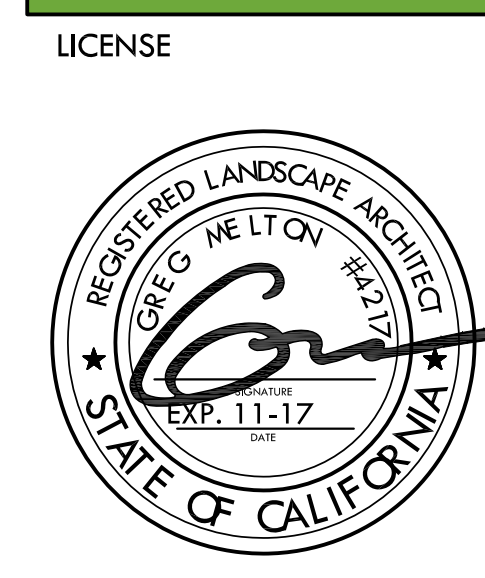
7 BACKFLOW PREVENTER
SCALE: NTS

5 ROOF WATER FILTRATION TROUGH - CIRCULAR

L-10.0 SCALE: 1/2" = 1'-0"



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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 #:

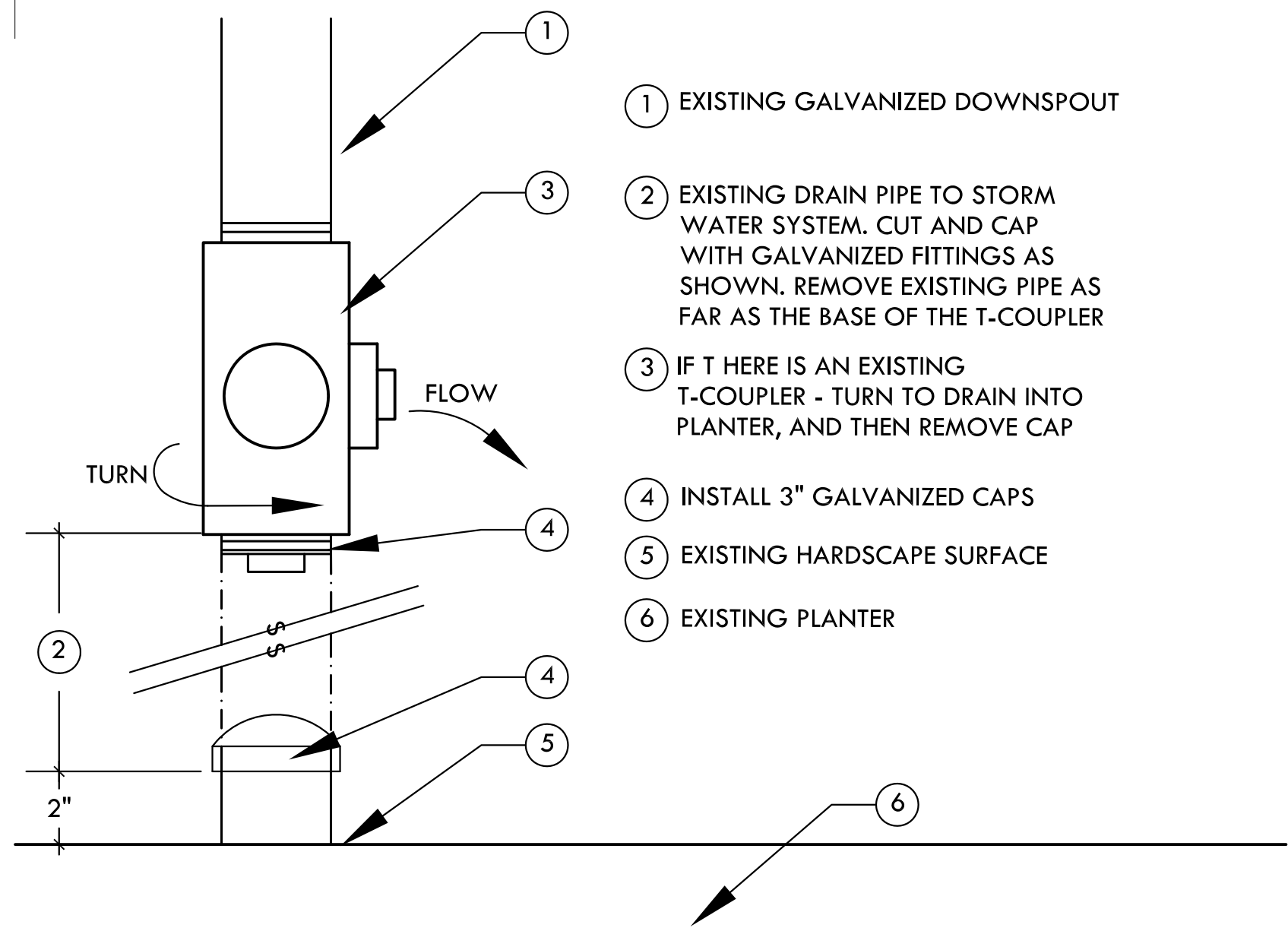
SHEET NUMBER

L-10.0

SHEET 13 OF 16

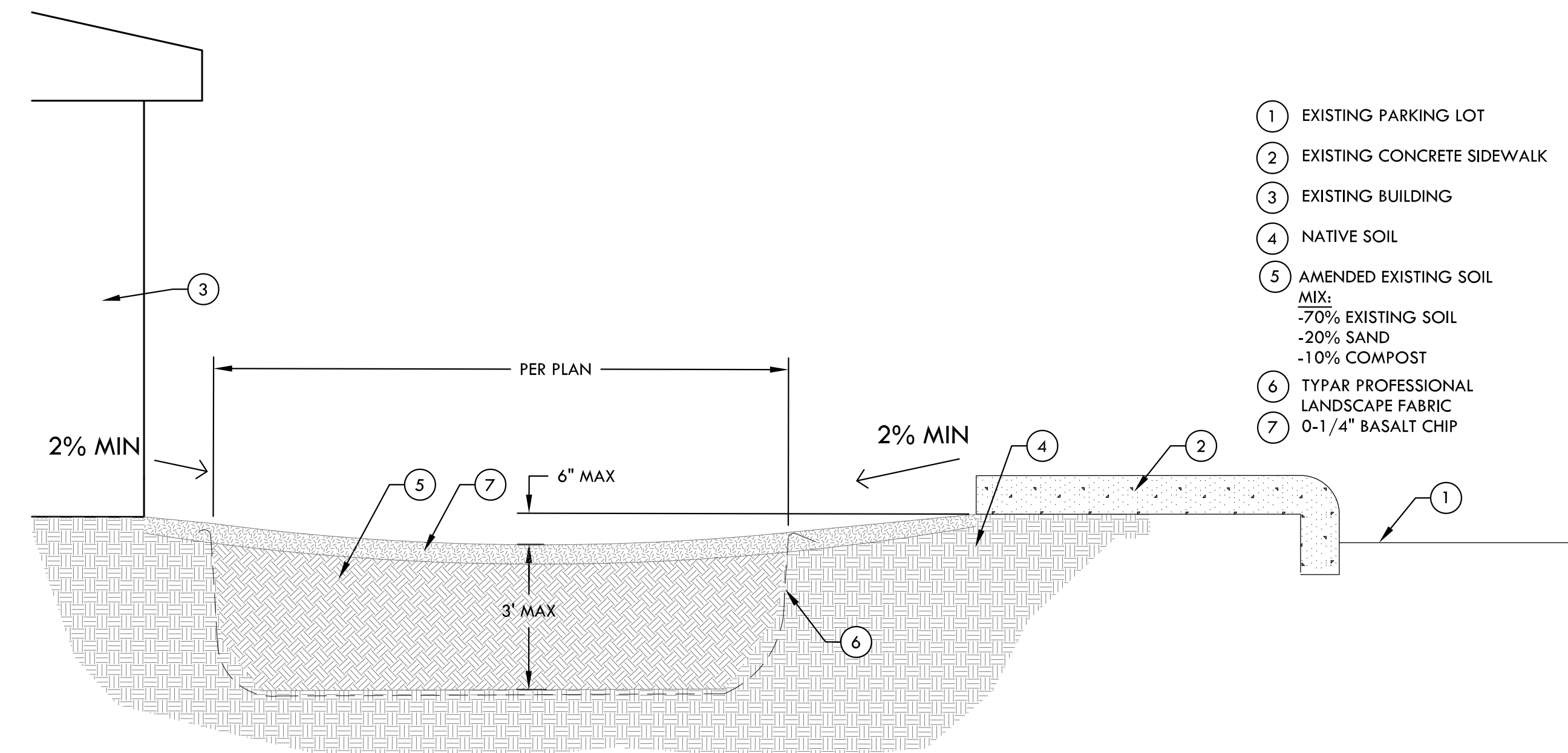
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- 1 EXISTING GALVANIZED DOWNSPOUT
- 2 EXISTING DRAIN PIPE TO STORM WATER SYSTEM. CUT AND CAP WITH GALVANIZED FITTINGS AS SHOWN. REMOVE EXISTING PIPE AS FAR AS THE BASE OF THE T-COUPLER
- 3 IF THERE IS AN EXISTING T-COUPLER - TURN TO DRAIN INTO PLANTER,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

1 EXISTING DOWNSPOUT - DRAIN PIPE CAP * ADD ALTERNATE
L-10.1 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

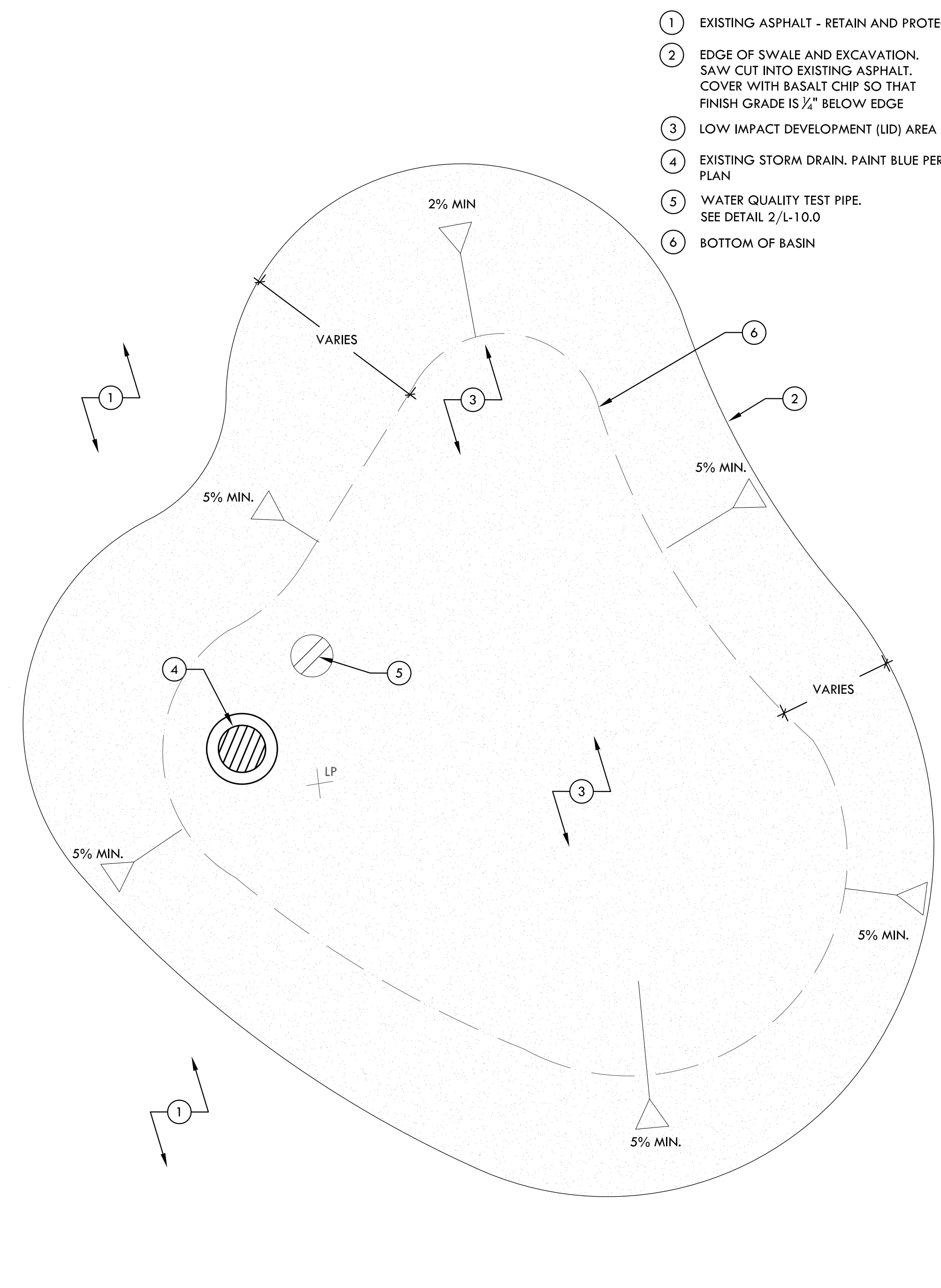
2 BIOSWALE SECTION - PARKVIEW ELEMENTARY ENTRY
L-10.1 SCALE: 1/4" = 1'-0"

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

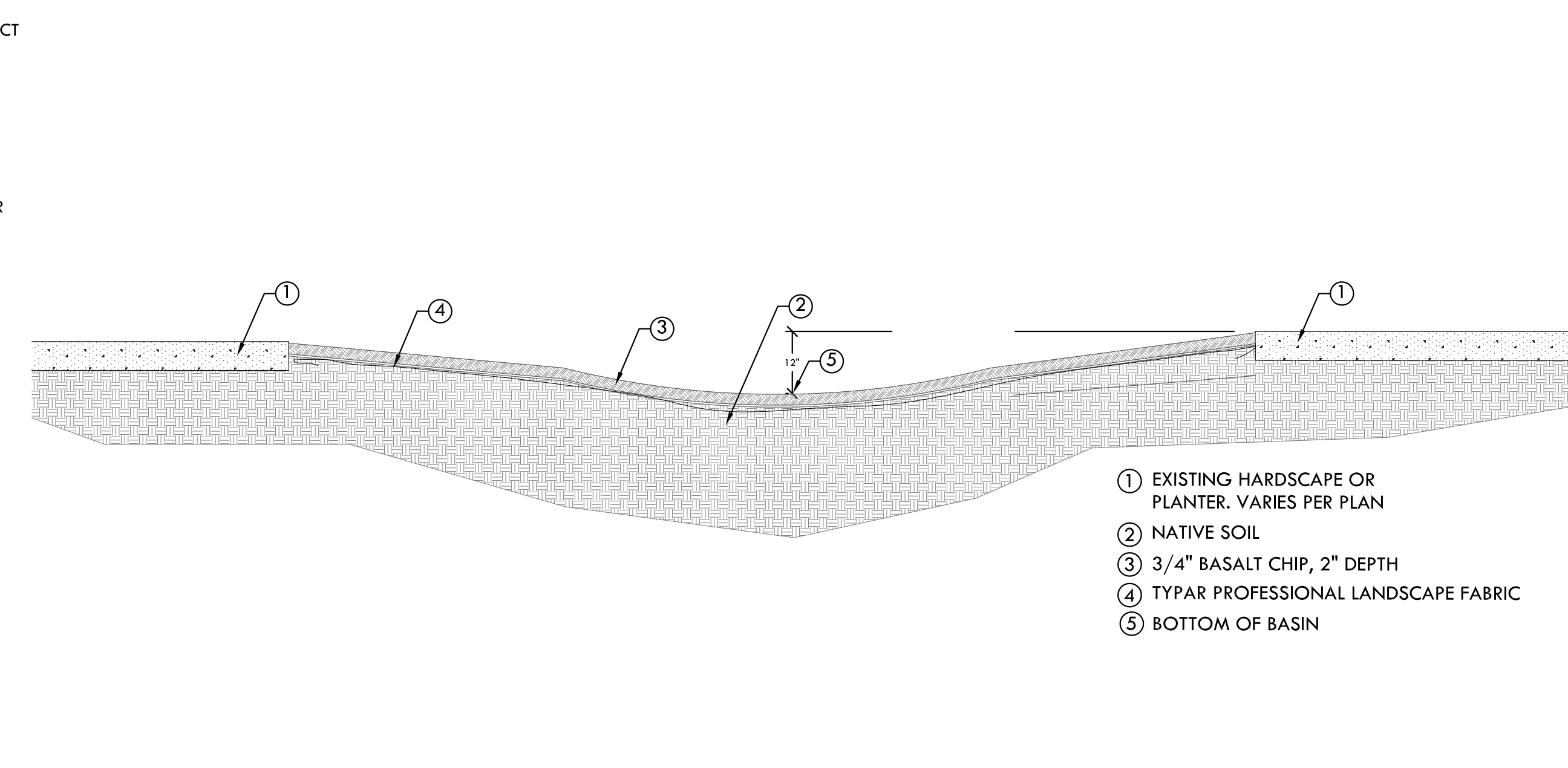
NOTE:
1. ACTUAL PIPE SIZE MAY VARY IN ACCORDANCE WITH VARYING SITE CONDITIONS, LENGTH OF RUN AND ELEVATION CHANGES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE OPTIMUM PIPE SIZING.
2. THE VELOCITY OF WATER FLOW (FEET PER SECOND) THROUGH THE LATERAL LINE SHALL NOT EXCEED 5fps.
3. MAIN PIPE 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 IRRIGATION PIPE
L-10.1 SCALE: N/A



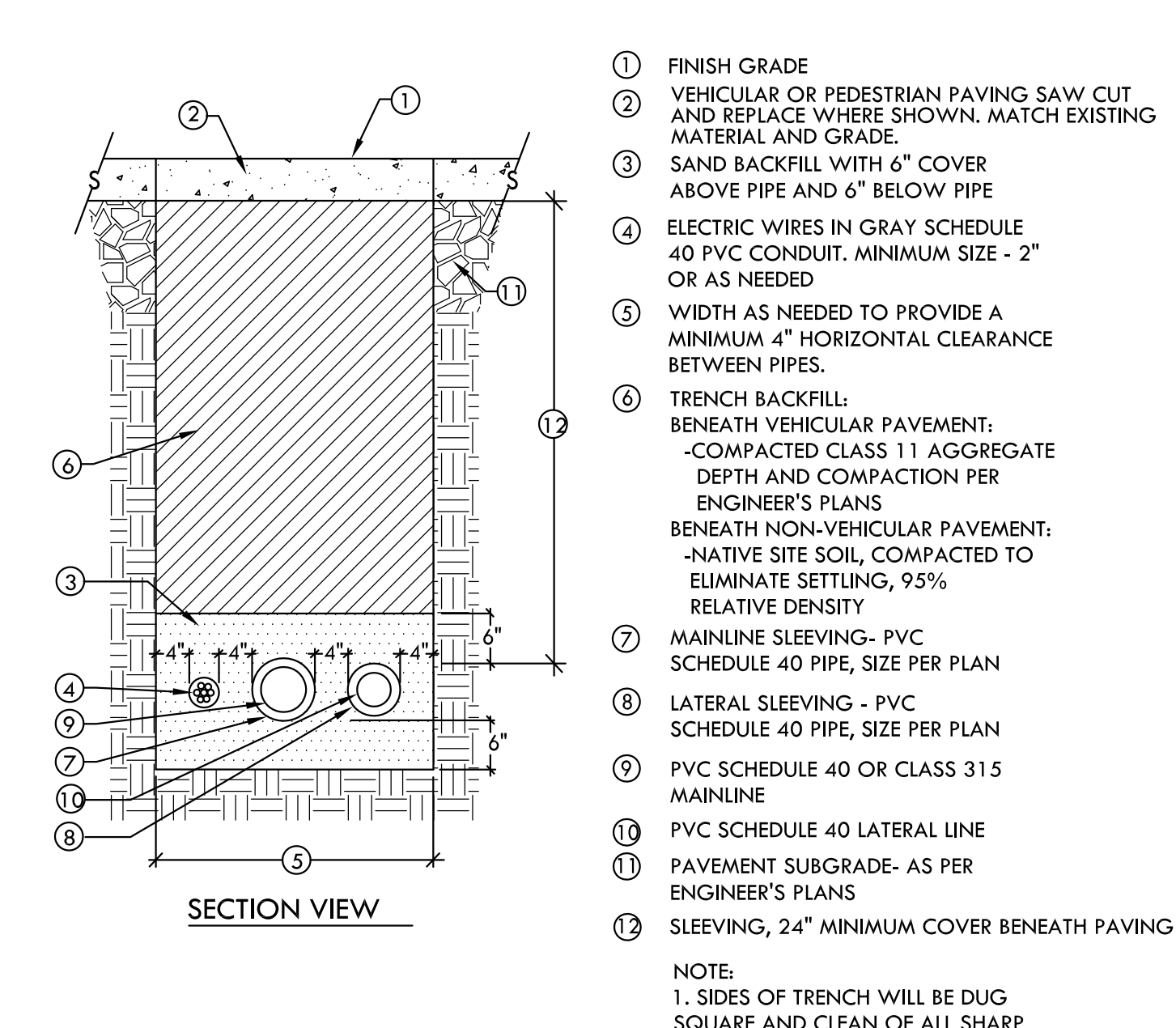
- 1 EXISTING ASPHALT - RETAIN AND PROTECT
- 2 EDGE OF SWALE AND EXCAVATION. SAW CUT INTO EXISTING ASPHALT. COVER WITH BASALT CHIP SO THAT FINISH GRADE IS 1/2" BELOW EDGE
- 3 LOW IMPACT DEVELOPMENT (LID) AREA
- 4 EXISTING STORM DRAIN. PAINT BLUE PER PLAN
- 5 WATER QUALITY TEST PIPE. SEE DETAIL 2/L-10.0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

4 RAIN GARDEN PLAN VIEW (TYPICAL)
L-10.1 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

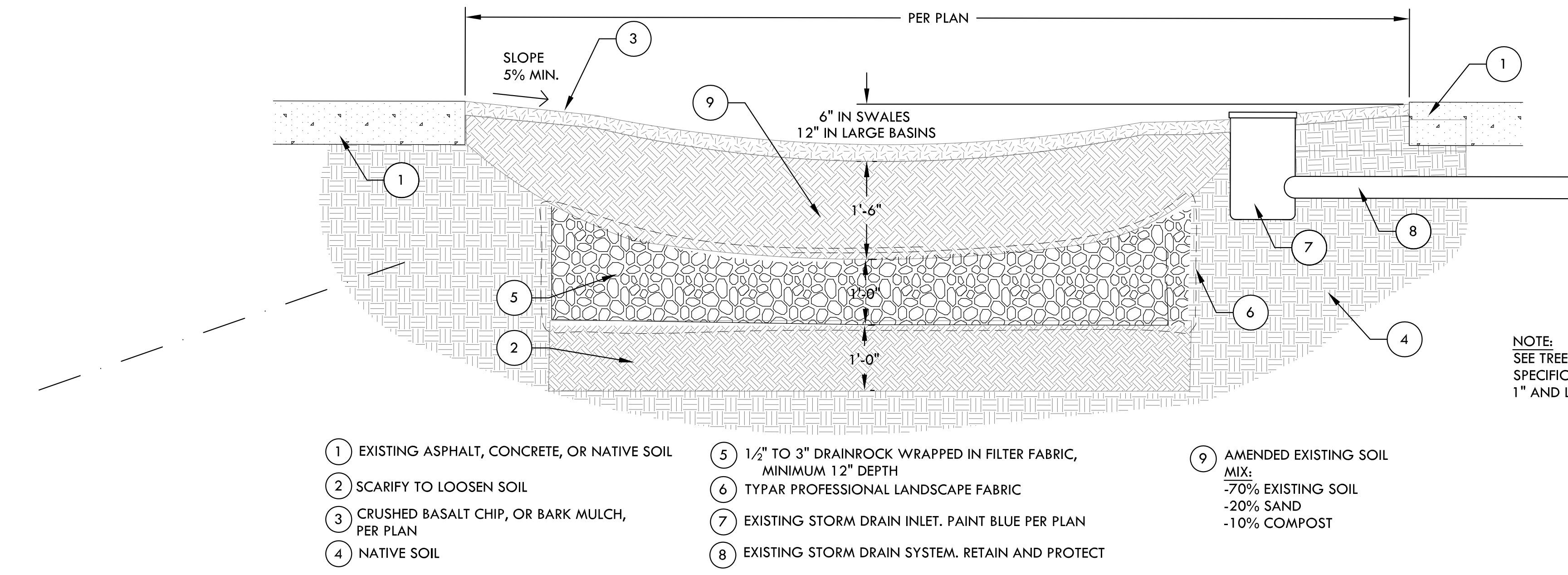
5 DRAINAGE SWALE
L-10.1 SCALE: NTS



- 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.

6 TRENCHING BENEATH PAVEMENT
L-10.1 SCALE: 1/2" = 1'-0"



- 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 1/2" 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 RAIN GARDEN - L.I.D. AREA
L-10.1 SCALE: 3/4" = 1'-0"



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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 #:

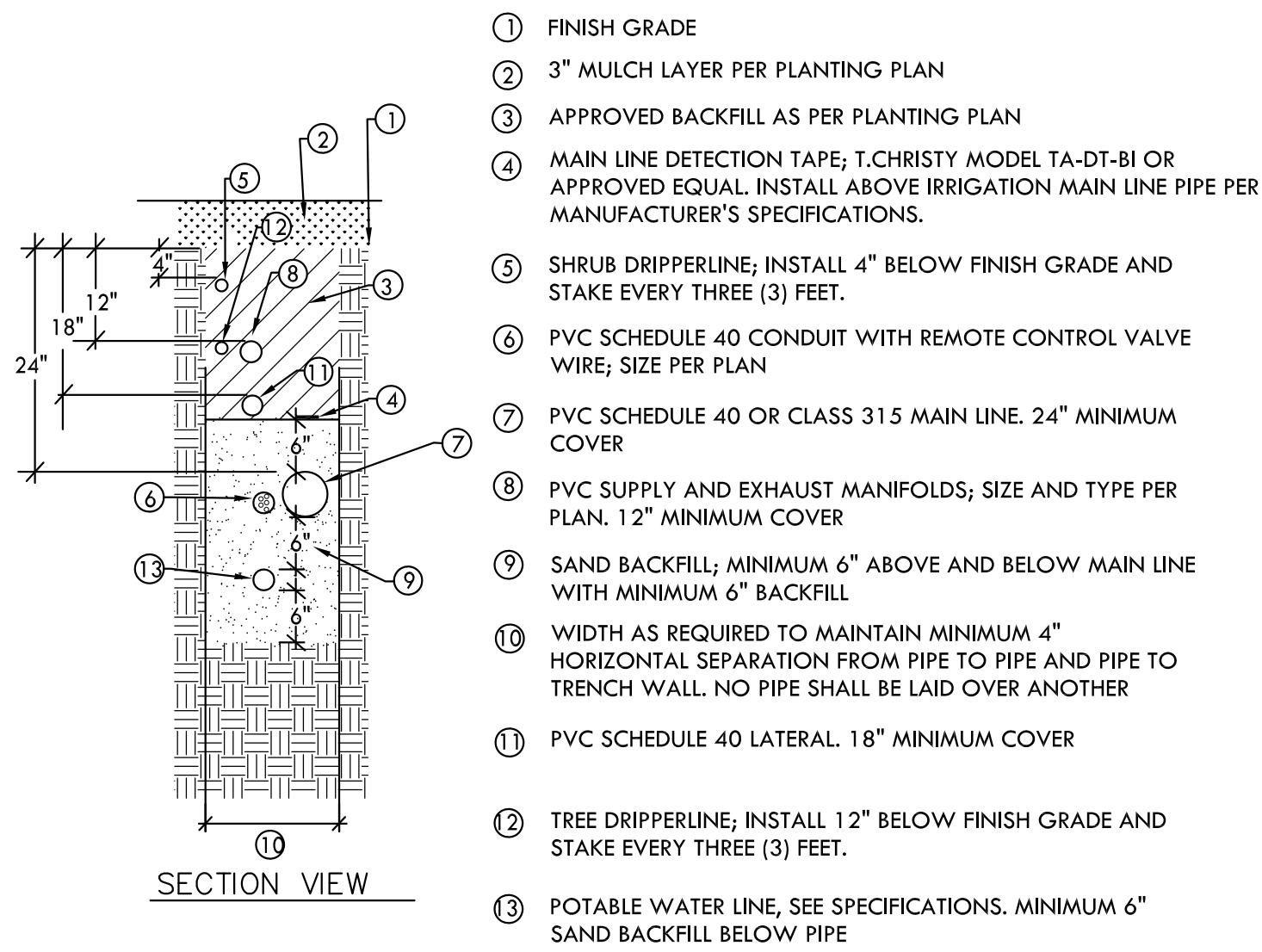
SHEET NUMBER

L-10.1

SHEET 14 OF 16

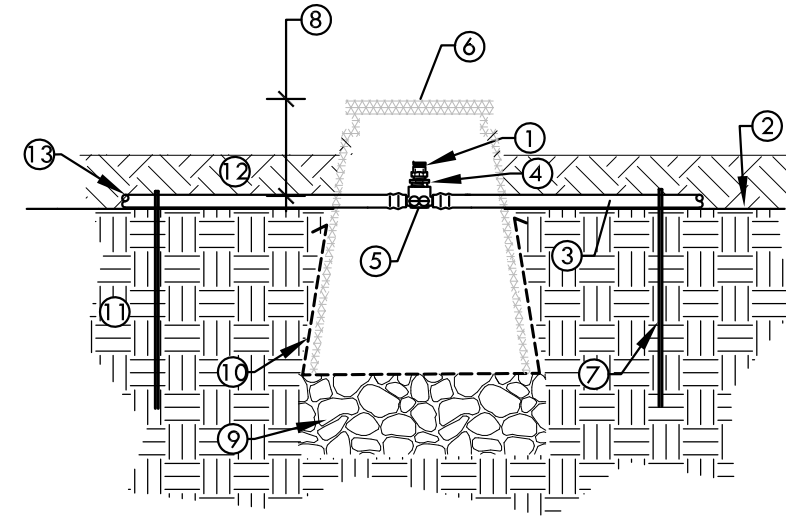
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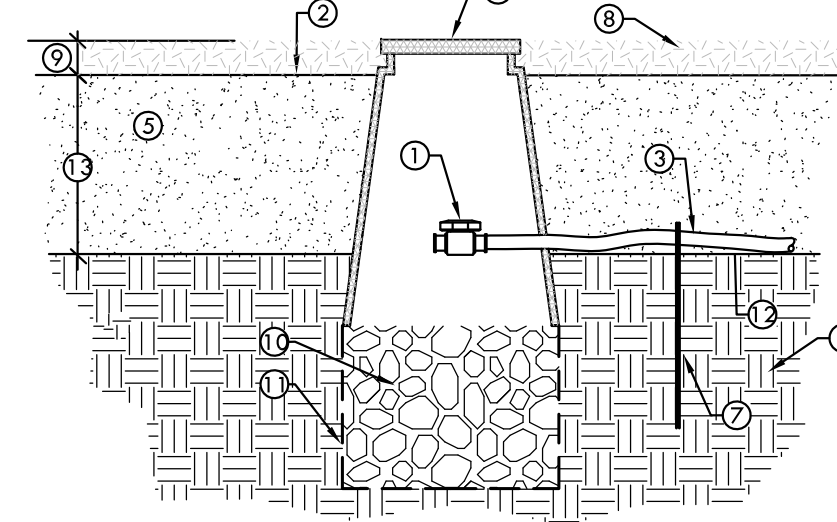
- 1 FINISH GRADE
- 2 3" MULCH LAYER PER PLANTING PLAN
- 3 APPROVED BACKFILL AS PER PLANTING PLAN
- 4 MAIN LINE DETECTION TAPE, T-CHRISTY MODEL TA-DT-8I OR APPROVED EQUAL. INSTALL ABOVE IRRIGATION MAIN LINE PIPE PER MANUFACTURER'S SPECIFICATIONS.
- 5 SHRUB DRIPPERLINE, INSTALL 4" BELOW FINISH GRADE AND 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



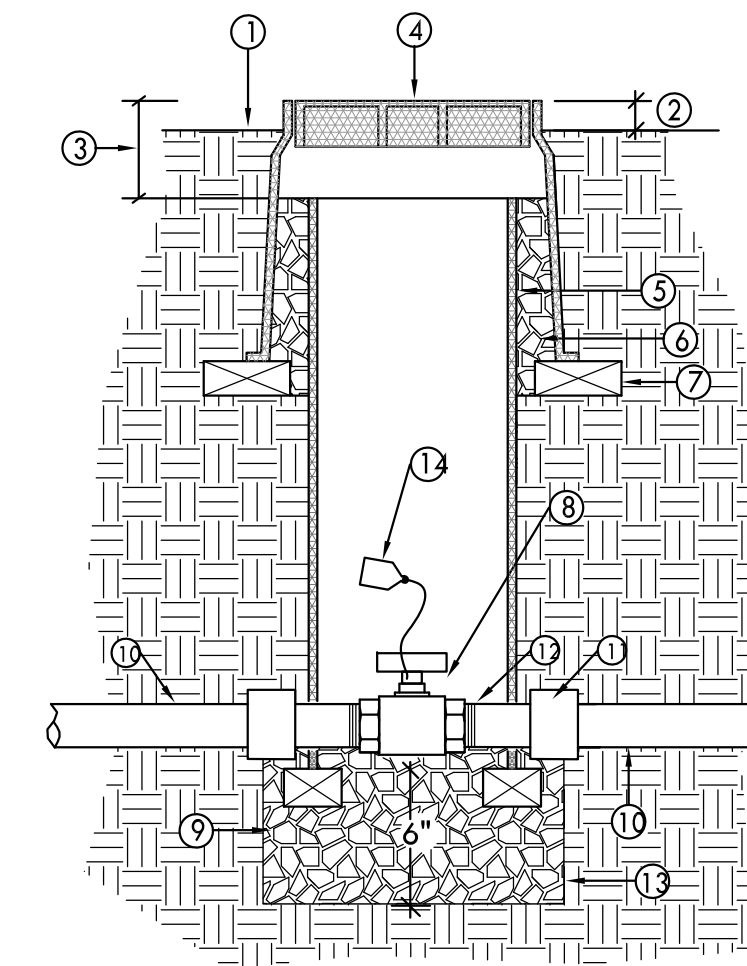
- 1 1/2" MIPT AIR/VACUUM RELIEF VALVE; PLD-AVR OR APPROVED EQUAL. CONTRACTOR SHALL FIELD LOCATE AT HIGHEST POINT OF SYSTEM. USE MULTIPLE AIR/VACUUM RELIEF VALVES AS NEEDED.
- 2 FINISH GRADE
- 3 BLANK DRIPPER LINE OR PVC SUPPLY HEADER, TYPE PER PLAN. (BLANK DRIPPER LINE SHOWN)
- 4 3/4" MIPT x 1/2" FIPT 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 2 1/2" 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

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

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 CHRISITY VALVE TAG; ATTACH TO VALVE STEM WITH NYLON CABLE TIE.

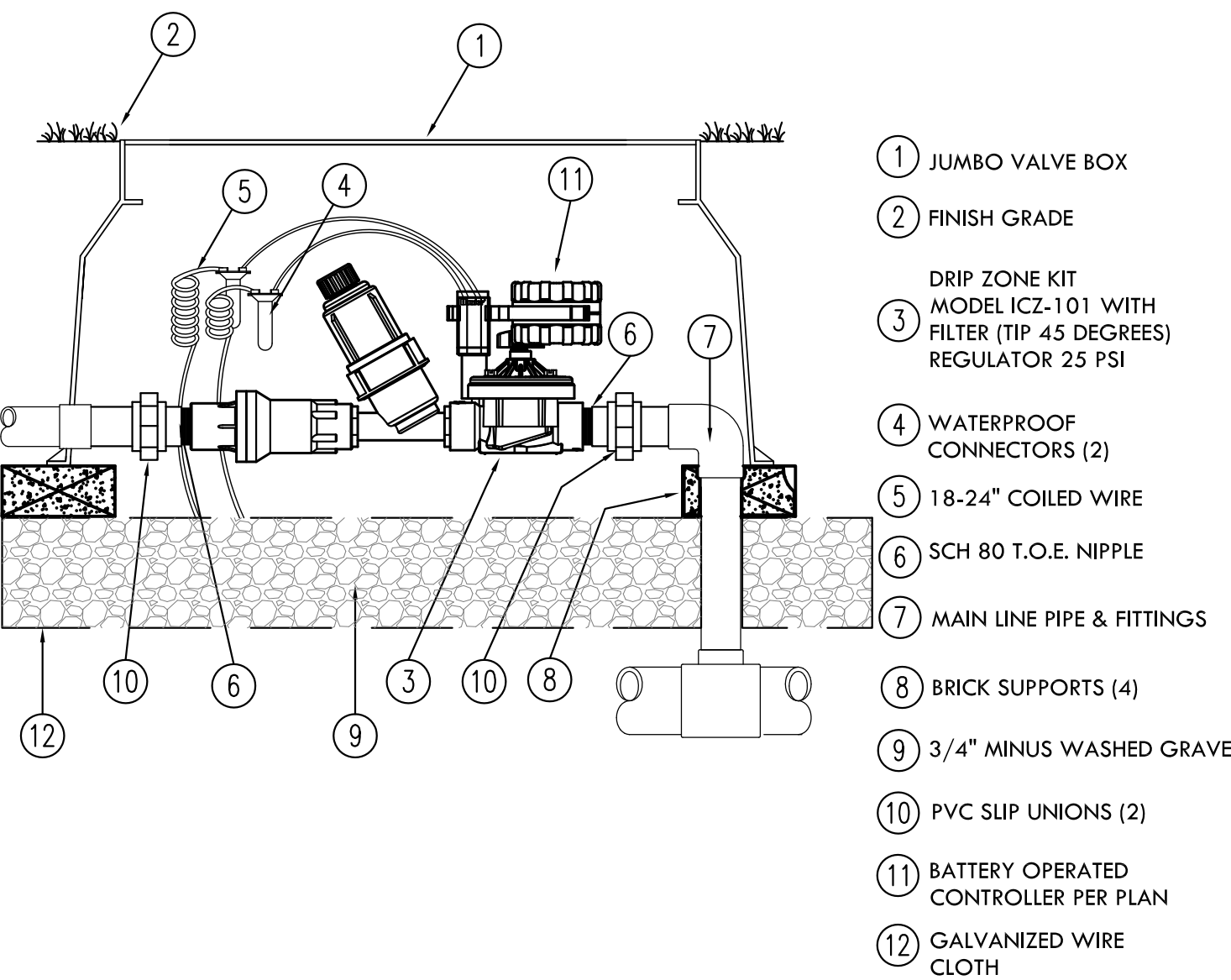
SECTION VIEW

1 TRENCHING
L-10.2 SCALE: NTS

2 AIR RELIEF VALVE
L-10.2 SCALE: NTS

3 FLUSH VALVE
L-10.2 SCALE: NTS

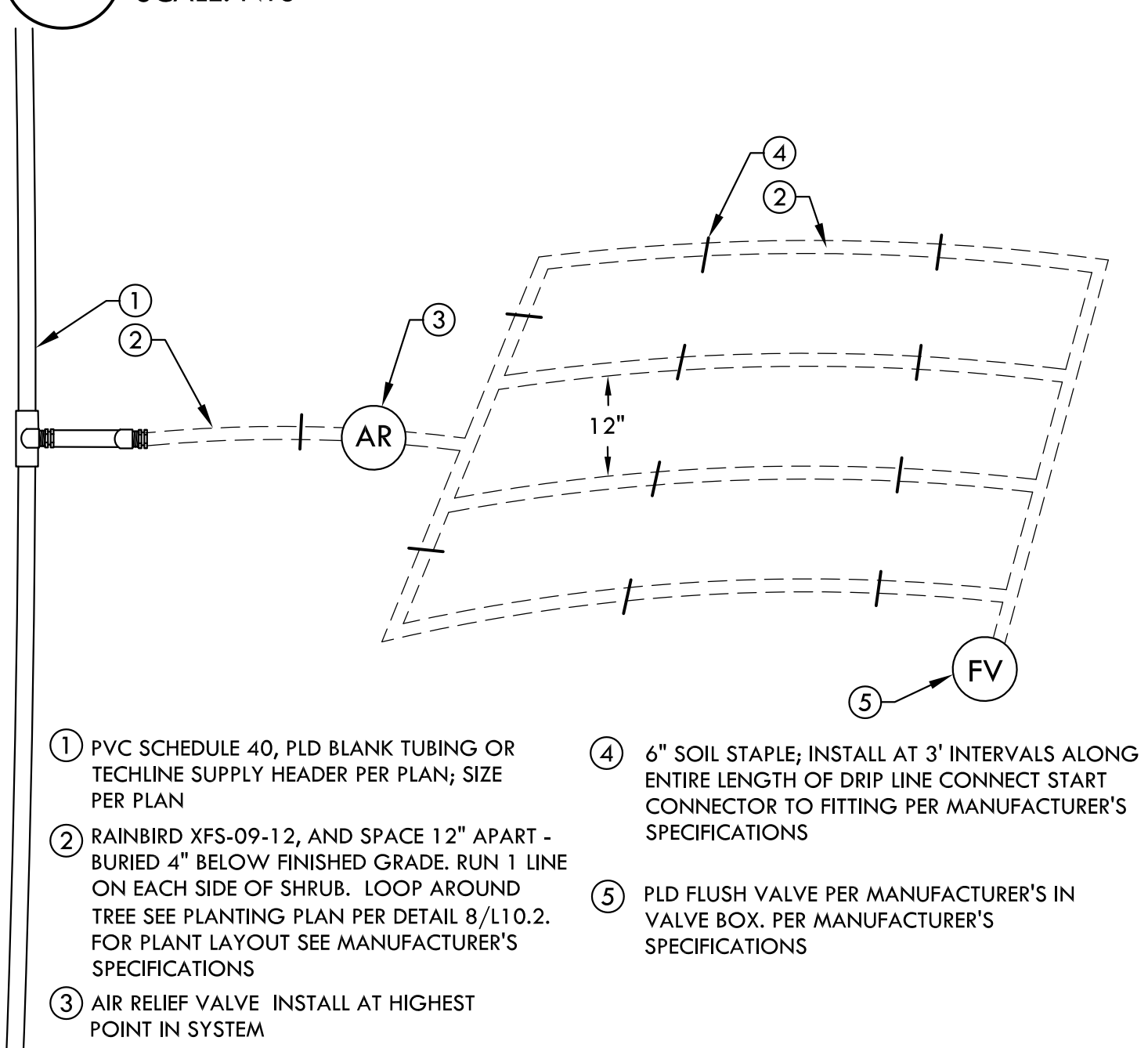
4 ISOLATION VALVE - THREADED - PVC
L-10.2 SCALE: NTS



- 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

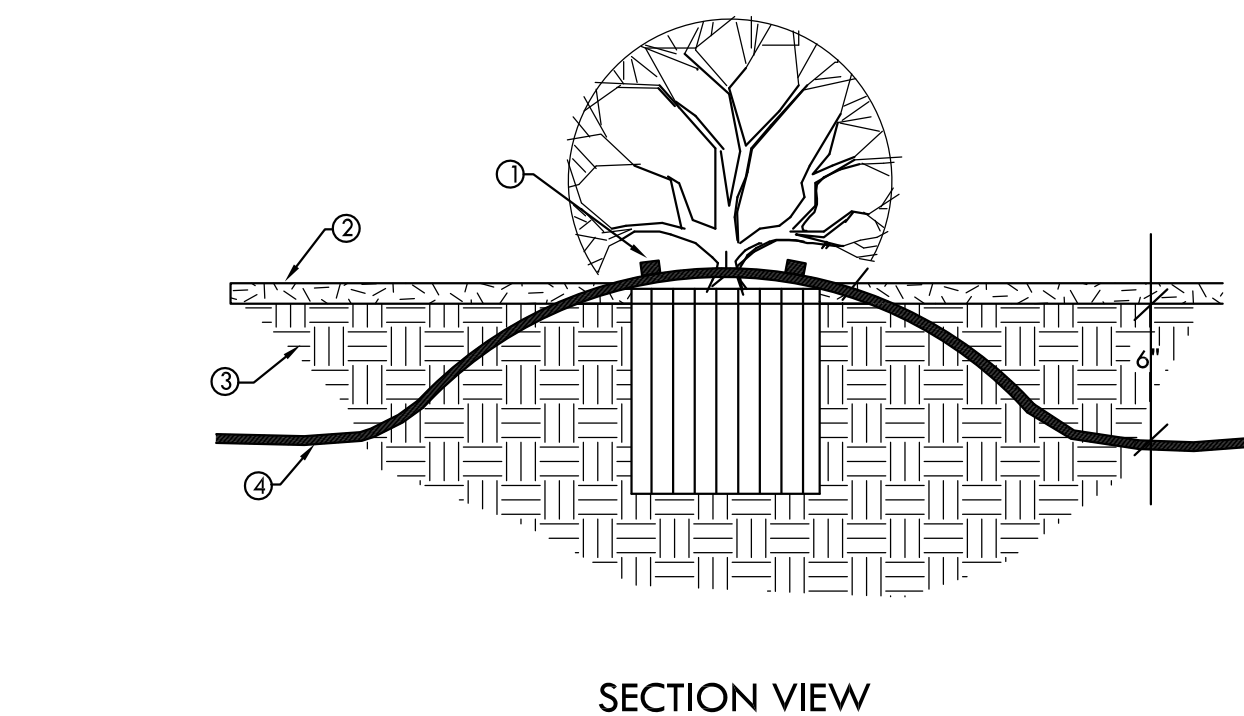
5 REMOTE CONTROL DRIP ZONE
L-10.2 SCALE: NTS

6 DRIP LINE START CONNECTOR - TEE
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

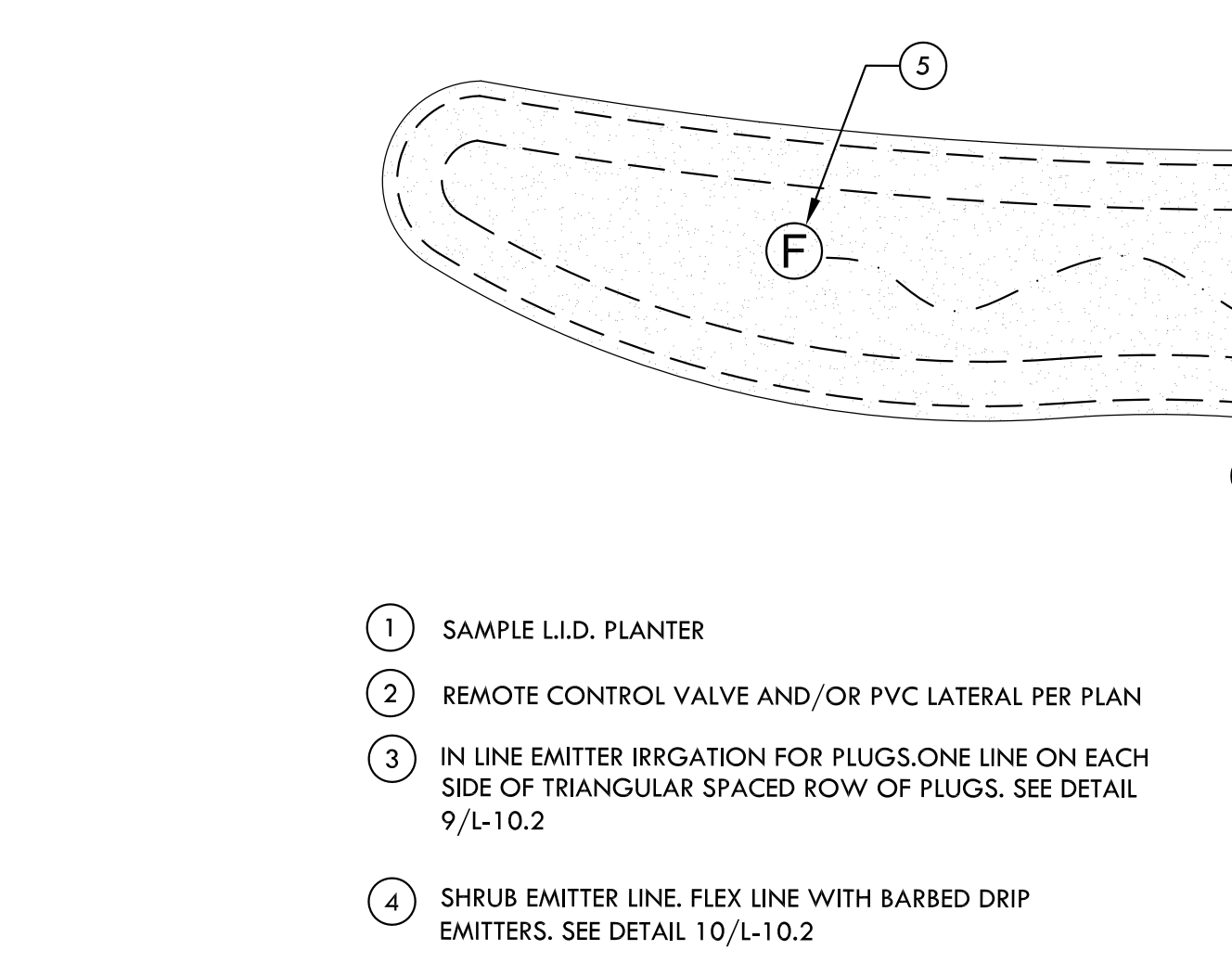
9 DRIP LINE DETAIL
L-10.2 SCALE: NTS



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

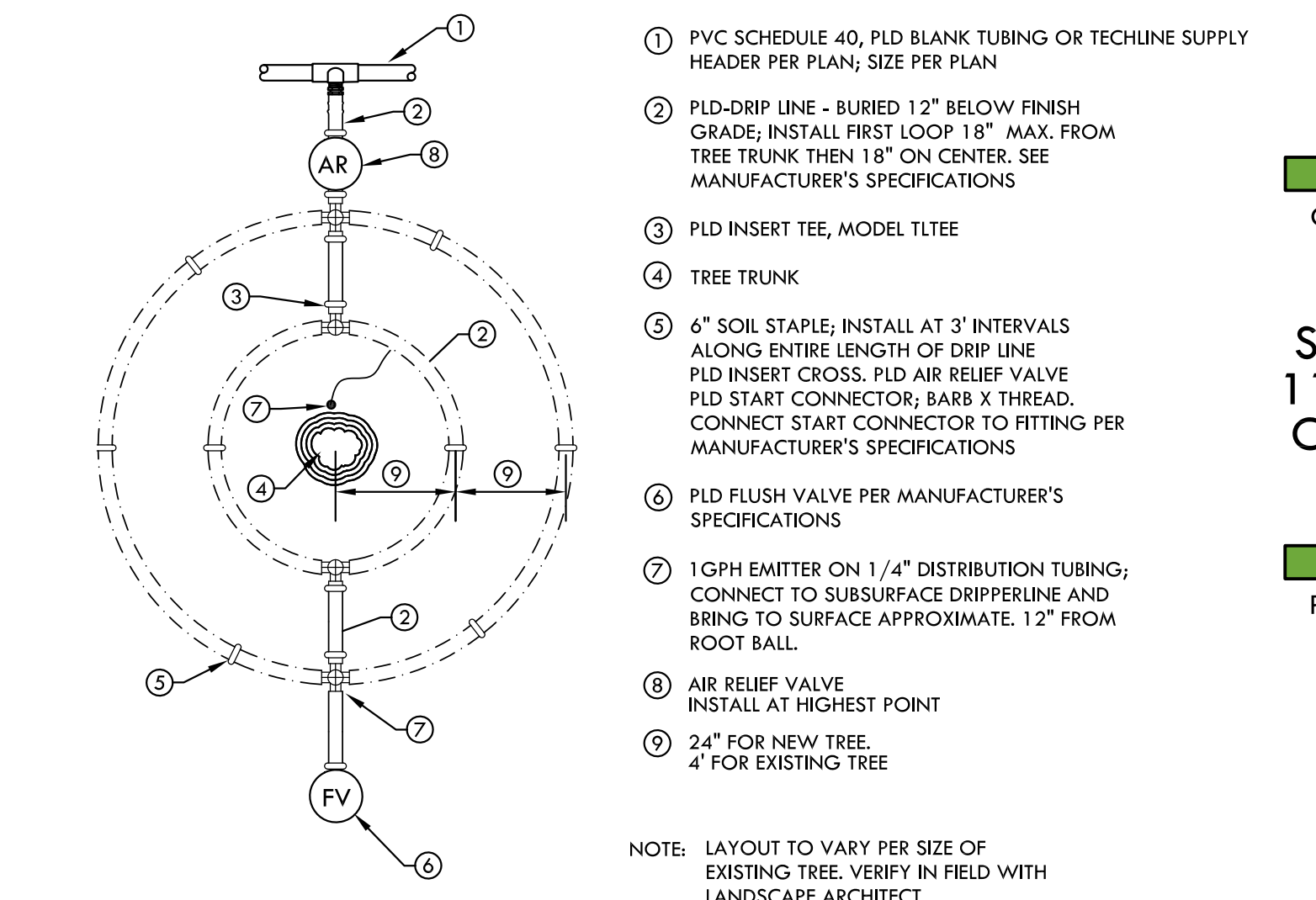
10 SHRUB AND TREE EMITTERS
L-10.2 SCALE: NTS

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



- 1 SAMPLE L.I.D. PLANTER
- 2 REMOTE CONTROL IRRIGATION AND/OR PVC LATERAL PER PLAN
- 3 IN LINE EMITTER IRRIGATION 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



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

8 TREE IRRIGATION
L-10.2 SCALE: NTS



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SHEET TITLE

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PLOT DATE: 11/04/2016

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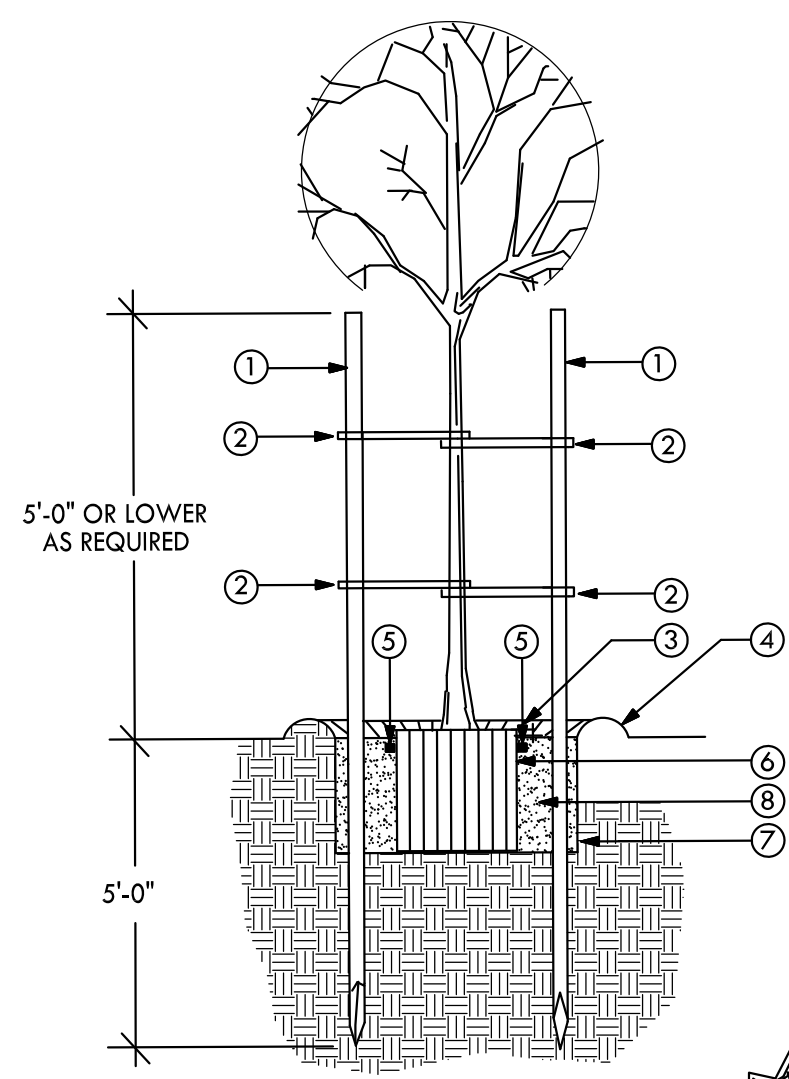
MELTON DESIGN GROUP: 2265
CONSULTANT PROJECT #:

SHEET NUMBER

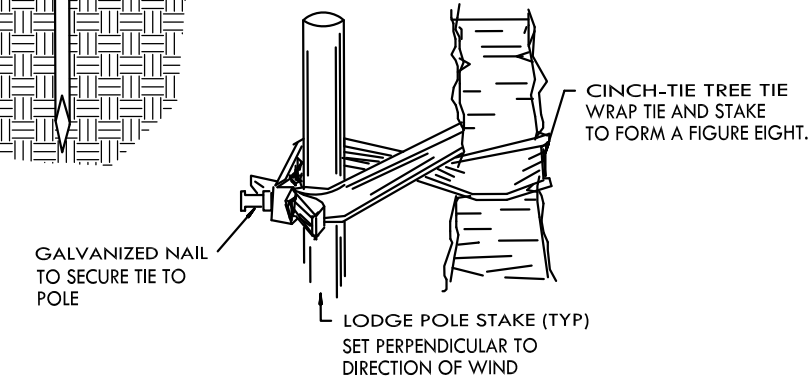
L-10.2

SHEET 15 OF 16

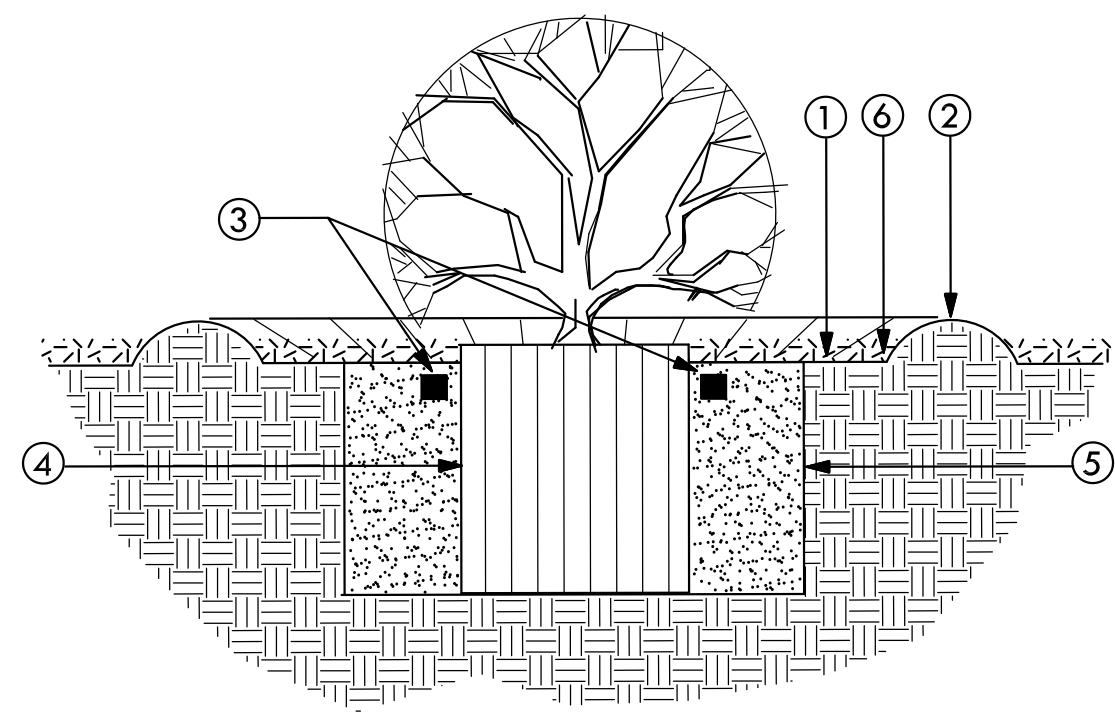
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- ① (2) 2"x 10' LODGEPOLE STAKE CUT OFF BELOW LOWEST LIMB. PLACE STAKES PERPENDICULAR TO PREVAILING WINDS.
- ② 32" CINCH TIE TREE TIES AT (2) PLACES.
- ③ MULCH IN SHRUB AND GROUND-COVER AREAS (NO MULCH IN DECOMPOSED GRANITE AREAS). REFER TO SPECIFICATIONS.
- 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.

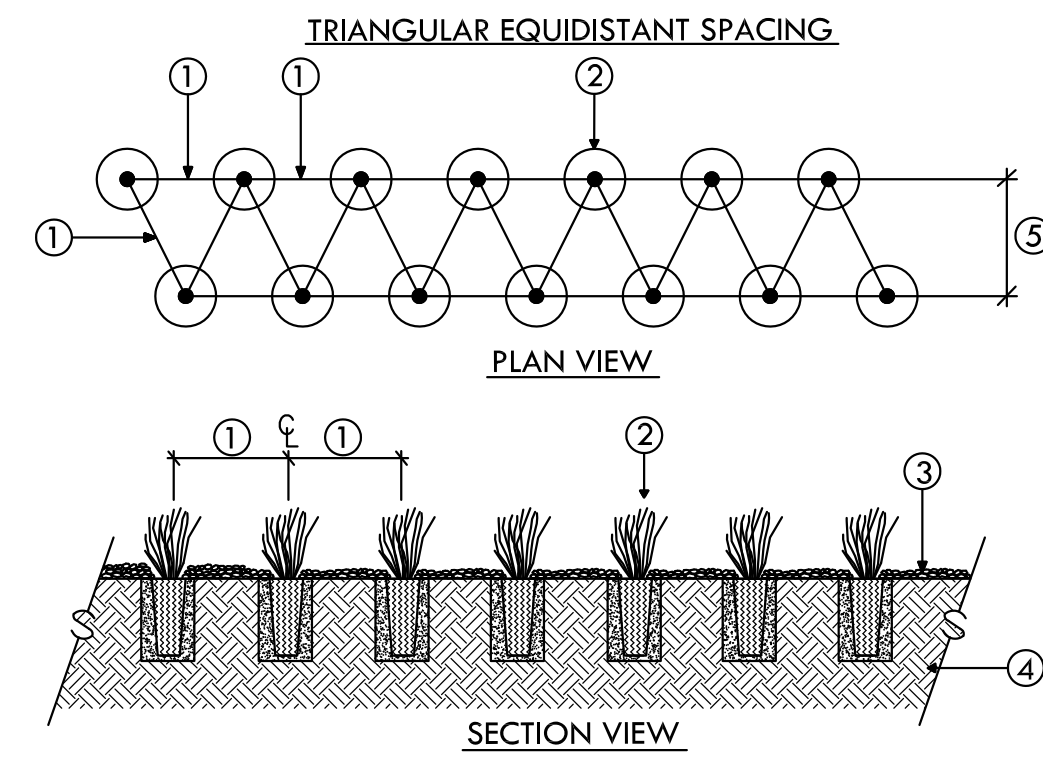


1 TREE PLANTING
L-10.3 SCALE: NTS



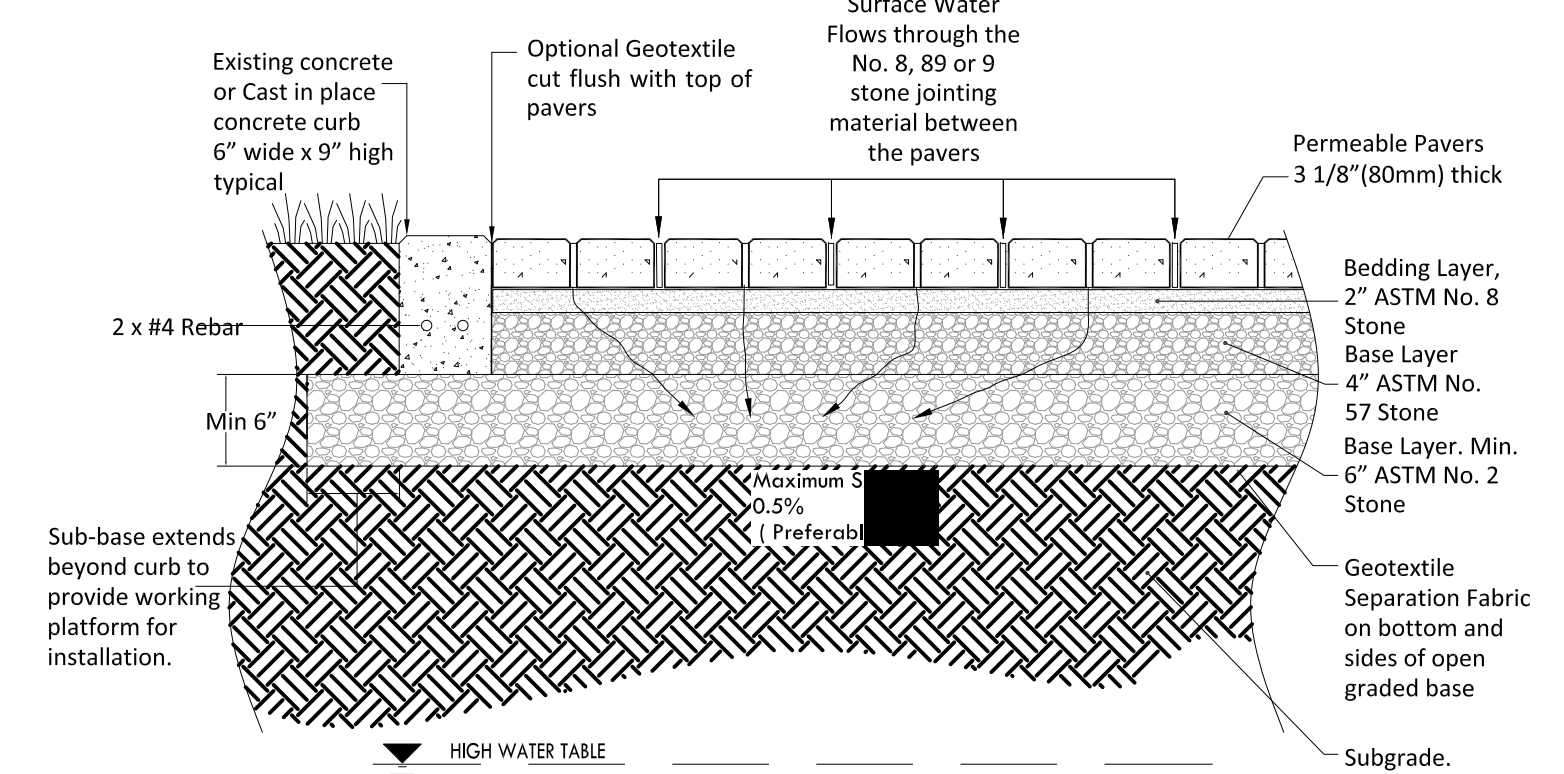
- ① BARK MULCH, OR CRUSHED ROCK PER PLAN
- ② WATER RETENTION BERM UNLESS SHRUB IS LOCATED IN CRUSHED ROCK AREA. PROVIDE POSITIVE DRAINAGE AWAY FROM ROOTBALL.
- ③ FERTILIZER TABLETS PER SPECIFICATIONS.
- ④ ROOT BALL, SET CROWN 1" ABOVE GRADE.
- ⑤ PLANTING PIT TO BE TWICE THE DIAMETER OF ROOTBALL. REFER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

2 SHRUB PLANTING
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
L-10.3 SCALE: NTS



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



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