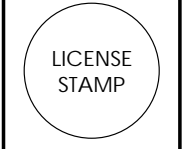


NEW SINGLE-FAMILY RESIDENTIAL LANDSCAPE PLAN FOR:
 LAST NAME RESIDENCE
 1357 STREET NAME
 IN THE CITY OF RIVERSIDE, CALIFORNIA

LICENSED PROFESSIONAL LOGO AND COMPANY INFORMATION



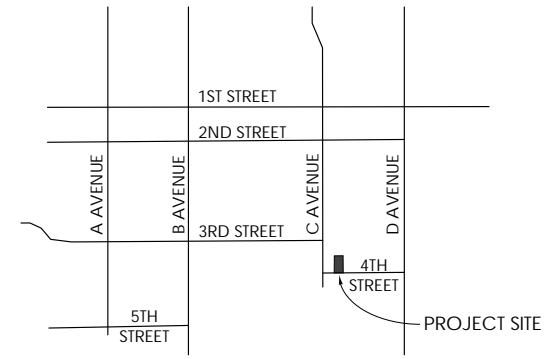
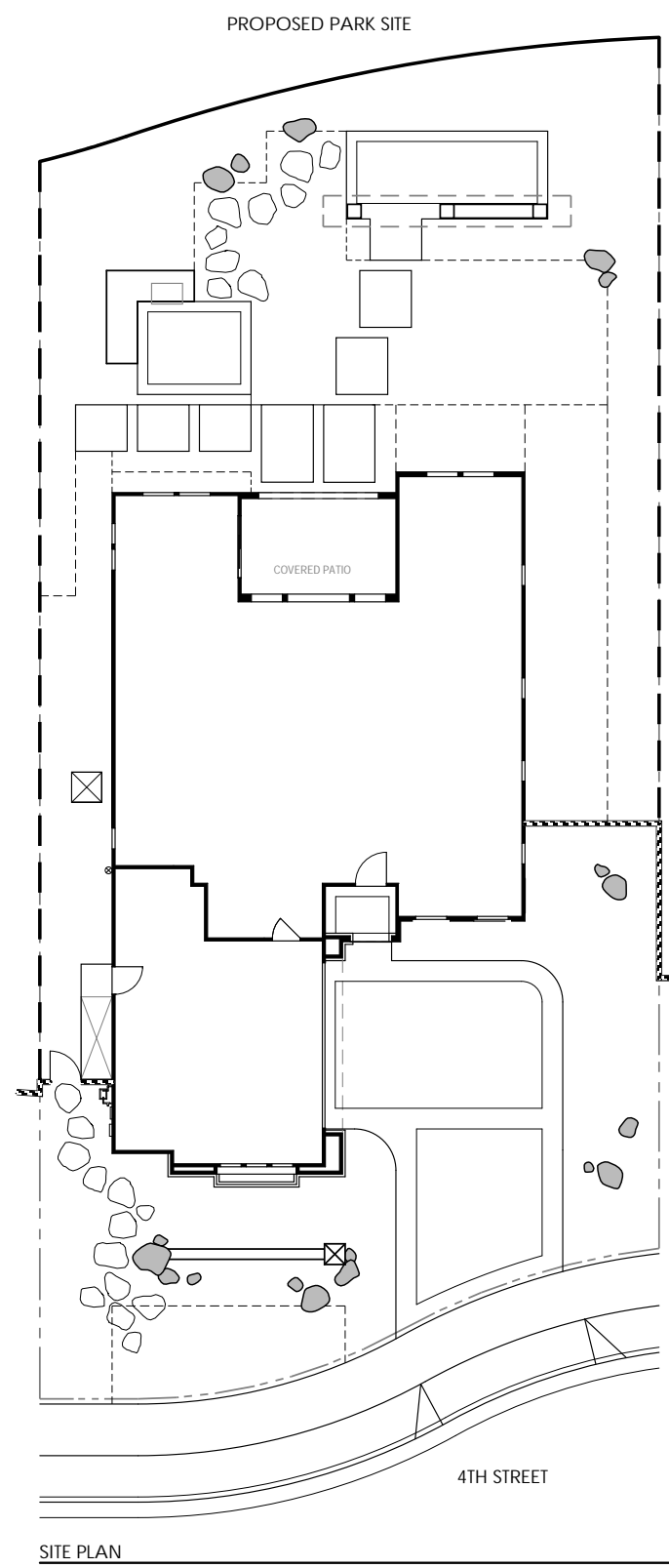
LAST NAME RESIDENCE
 1357 STREET NAME
 OWNER CONTACT INFORMATION

TITLE SHEET

REVISIONS

DATE:

SHEET NO.:
L1
 1 OF 10



VICINITY MAP
 NTS

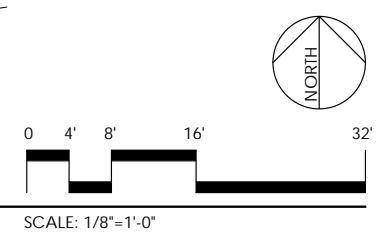
OWNER
 MR. AND MRS. LAST NAME
 1357 STREET NAME
 RIVERSIDE, CA
 OWNER CONTACT NAME
 OWNER CONTACT EMAIL ADDRESS
 PHONE NUMBER

APPLICANT
 APPLICANT'S COMPANY NAME
 COMPANY ADDRESS
 CONTACT NAME
 CONTACT EMAIL ADDRESS
 PHONE NUMBER

LANDSCAPE ARCHITECT
 LANDSCAPE ARCHITECT'S COMPANY NAME
 COMPANY ADDRESS
 CONTACT NAME
 CONTACT EMAIL ADDRESS
 PHONE NUMBER

SHEET INDEX

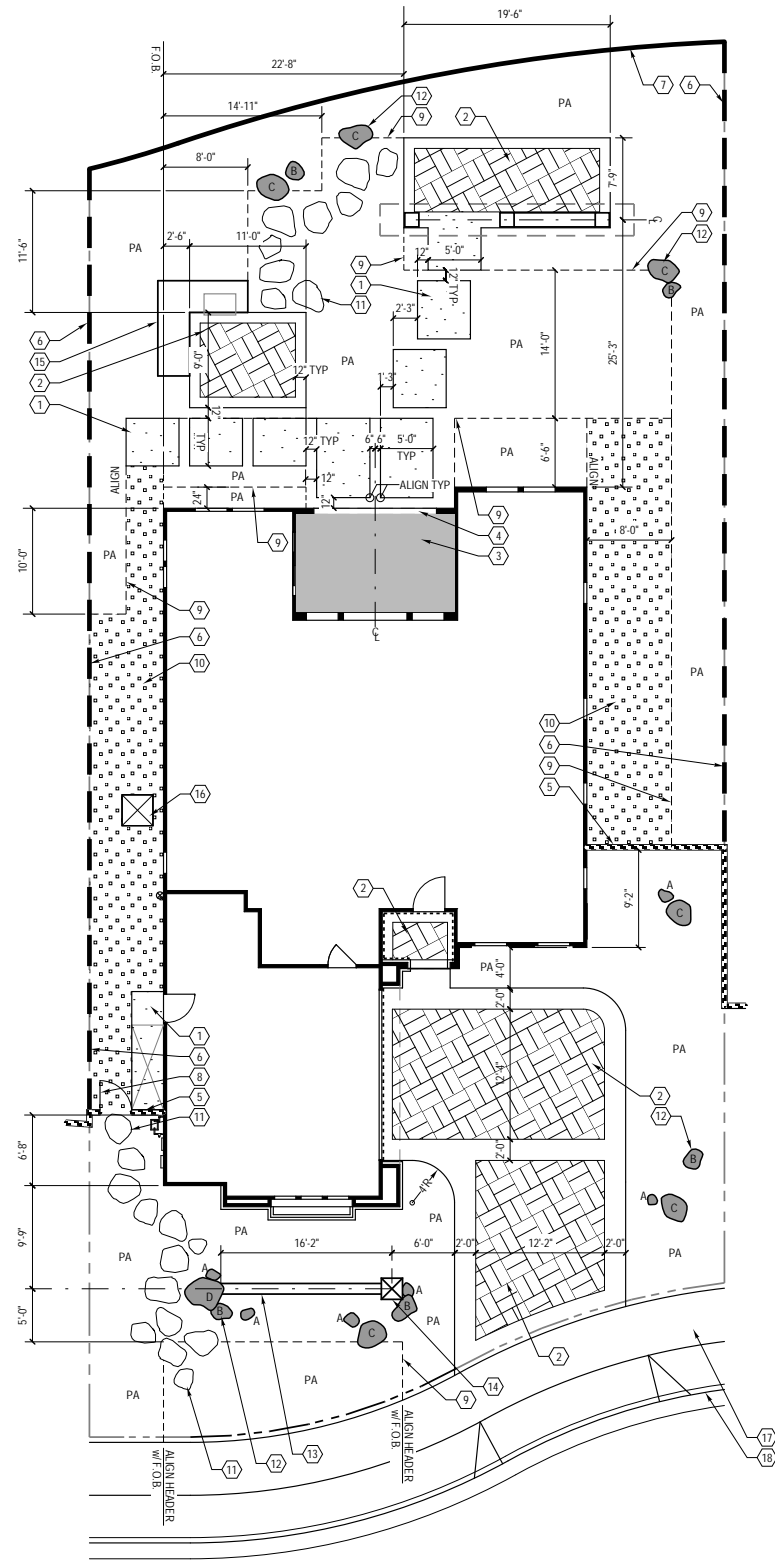
L1	TITLE SHEET
L2	CONSTRUCTION PLAN
L3	CONSTRUCTION DETAILS
L4	CONSTRUCTION DETAILS
L5	IRRIGATION PLAN
L6	IRRIGATION DETAILS
L7	PLANTING PLAN
L8	PLANTING DETAILS
L9	SPECIFICATIONS
L10	SPECIFICATIONS



**Attachment 7 - Planning Case P18-0608
 Single-Family Residential Landscape Plan -
 Working Drawing Example**



Know what's below.
 Call before you dig.



CONSTRUCTION NOTES

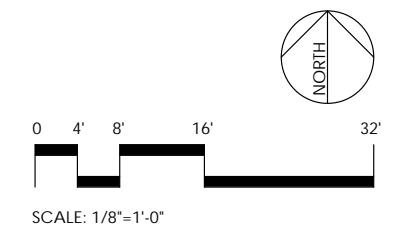
1. CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO A FAILURE TO GIVE SUCH NOTIFICATION.
2. WALL AND FENCE LAYOUT SHALL CONFORM TO PROPERTY LINE AND TOP OF SLOPE CONDITIONS. STAKING FOR LOCATION OF WALLS AND FENCES SHALL BE PROVIDED BY THE CIVIL ENGINEER PRIOR TO EXCAVATION OF FOOTINGS.
3. ALL FORMS AND ALIGNMENTS OF PAVING, WALL / FENCE LAYOUT, AND SPECIAL PAVING AREAS SHALL BE REVIEWED AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO POURING (GIVE A MINIMUM OF 48 HOURS NOTICE).
4. FOR SITE GRADING, SEE CIVIL ENGINEERS GRADING PLAN.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR COST INCURRED DUE TO DAMAGE AND REPLACEMENT OF SAID UTILITIES.
6. CONTRACTOR SHALL COORDINATE IRRIGATION SLEEVE LOCATIONS UNDER PAVED AREAS AS REQUIRED. REFER TO IRRIGATION PLANS.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH OTHER SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH CONSTRUCTION OPERATIONS AS SHOWN.
8. PRIOR TO PLACING CONCRETE, THE CONTRACTOR SHALL SUFFICIENTLY COMPACT THE SUB-GRADE AND PROVIDE SUBSURFACE PREPARATION PER SPECIFICATIONS.
9. CONCRETE SURFACES SHALL BE FORMED WITH LONG, SMOOTH GRADIENT TO REDUCE DIPS, ABRUPT CHANGES AND SHARP TRANSITIONS.
10. ALL CURVILINEAR WALKS, CURBS, HEADER BOARDS, AND WALLS SHALL HAVE A CONTINUOUS SMOOTH CURVE WHERE APPLICABLE. ALL FORMS MUST BE INSPECTED AND APPROVED PRIOR TO BEGINNING THAT PHASE OF WORK.

CONSTRUCTION LEGEND

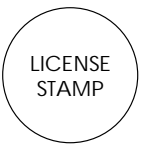
- 1. CONSTRUCT 4" THICK NATURAL COLOR CONCRETE w/ MEDIUM BROOM FINISH AND CONTROL JOINTS. THICKNESS AT DRIVEWAYS PER CIVIL ENGINEER. SEE DETAIL A, SHEET L3.
- 2. PROVIDE AND INSTALL BELGARD 'MEGA-ARBEL' PATIO SLAB 60 MM INTERLOCKING PAVERS, COLOR 'BELLA' AND NATURAL COLOR PERIMETER BAND w/ MEDIUM BROOM FINISH, WIDTH PER PLAN. INSTALL OVER 6" ROAD BASE AT DRIVEWAY. SEE DETAIL F, SHEET L4.
- 3. EXISTING FLOORING AT CALIFORNIA ROOM.
- 4. CONSTRUCT 8" WIDE NATURAL COLOR SMOOTH TROWELLED PERIMETER CONCRETE BAND.
- 5. CONSTRUCT 6'-0" HIGH SINGLE-SIDED SPLIT FACE BLOCK RETURN WALL w/ PRECISION CAP. BLOCK AND CAP COLORS TO BE SELECTED BY OWNER. SEE DETAIL G, SHEET L3.
- 6. CONSTRUCT 6'-0" HIGH PRECISION BLOCK PROPERTY WALL BETWEEN LOTS w/ PRECISION CAP. BLOCK AND CAP COLORS TO BE SELECTED BY OWNER. SEE DETAIL F, SHEET L3.
- 7. CONSTRUCT 6'-0" HIGH VIEW FENCE, THAT CONSISTS OF 4'-0" HIGH TUBULAR STEEL FENCE ATOP 2'-0" HIGH MASONRY WALL. SEE DETAIL H, SHEET L3.
- 8. CONSTRUCT 3'-0" WIDE TUBULAR STEEL SIDEYARD GATE. SEE DETAIL E, SHEET L3.
- 9. INSTALL 1/8" x 4" ALUMINUM EDGING ALONG PLANTER EDGE. SEE DETAILS B AND C, SHEET L3.
- 10. INSTALL 3" THICK LAYER OF 3/4" CRUSHED GRAVEL. SEE DETAIL B, SHEET L3.
- 11. INSTALL 'SNAKESKIN' FLAGSTONE PAVERS w/ CONCRETE BASE IN PLANTER AREA. AVAILABLE FROM SOUTHWEST BOULDER AND STONE, TEL. 877-792-7625. SEE DETAIL D, SHEET L3.
- 12. PROVIDE AND INSTALL 'HICKORY CREEK' LANDSCAPE BOULDER, AVAILABLE FROM SOUTHWEST BOULDER AND STONE. SEE DETAIL E, SHEET L4. BOULDERS SHALL BE SIZED PER SCHEDULE:
A. 18" TO 24"
B. 24" TO 30"
C. 30" TO 36"
D. 36" TO 42"
- 13. CONSTRUCT GARDEN WALL w/ STONE VENEER AND POURED-IN-PLACE CONCRETE CAP. SEE DETAIL A, SHEET L4.
- 14. CONSTRUCT PILASTER w/ STONE VENEER AND POURED-IN-PLACE CONCRETE CAP. SEE DETAIL B, SHEET L4.
- 15. CONSTRUCT OUTDOOR KITCHEN w/ STAINLESS STEEL GRILL AND STONE VENEER BARBECUE ISLAND. SEE DETAILS C AND D, SHEET L4.
- 16. A/C CONDENSER UNIT PER ARCHITECT'S PLANS.
- 17. CITY SIDEWALK PER CIVIL ENGINEER'S PLANS.
- 18. CURB AND GUTTER PER CIVIL ENGINEER'S PLANS.

PLAN CROSS REFERENCES

FOR CONSTRUCTION NOTES, SEE THIS SHEET
 FOR CONSTRUCTION DETAILS, SEE SHEET L3 AND L4
 FOR CONSTRUCTION SPECIFICATIONS, SEE SHEET L9
 FOR CORRESPONDING IRRIGATION PLAN SEE SHEET L5
 FOR CORRESPONDING PLANTING PLAN SEE SHEET L7



LICENSED PROFESSIONAL LOGO AND COMPANY INFORMATION



LAST NAME RESIDENCE
 1357 STREET NAME
 OWNER CONTACT INFORMATION

CONSTRUCTION PLAN

REVISIONS

DATE:
MM/DD/YY

SHEET SCALE:
1/8" = 1'-0"

SHEET NO.:
L2
2 OF 10



Know what's below.
Call before you dig.

LICENSED PROFESSIONAL LOGO AND COMPANY INFORMATION

LICENSE STAMP

LAST NAME RESIDENCE
1357 STREET NAME
OWNER CONTACT INFORMATION

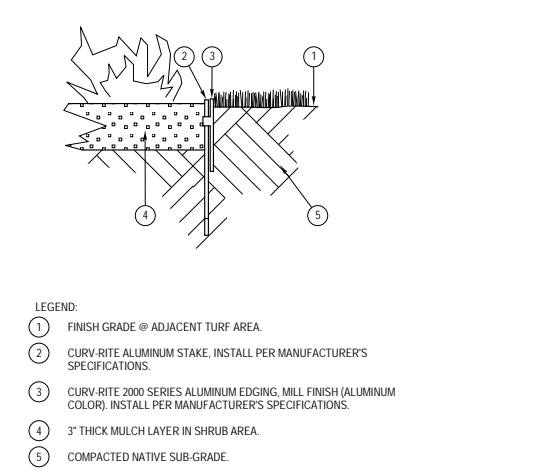
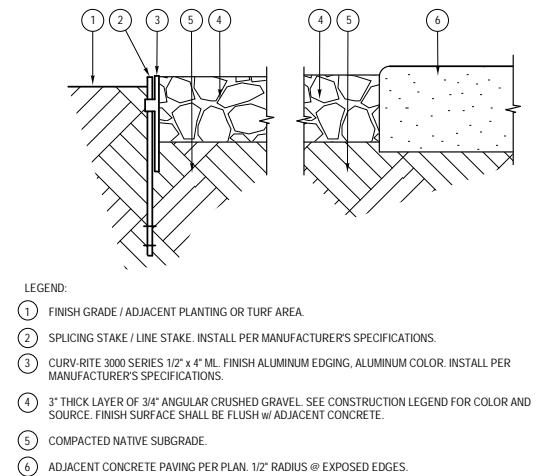
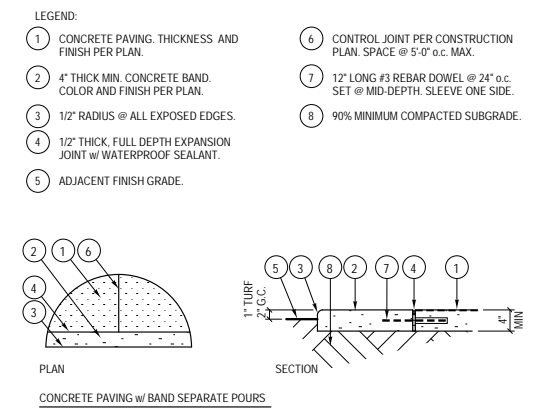
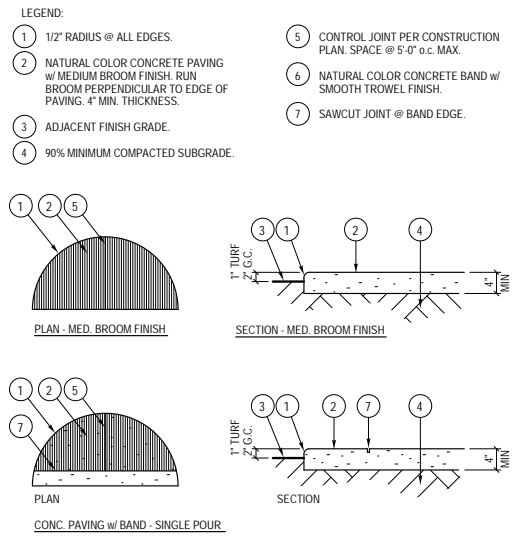
CONSTRUCTION DETAILS

REVISIONS

SUBMITTALS

DATE:
MM/DD/YY

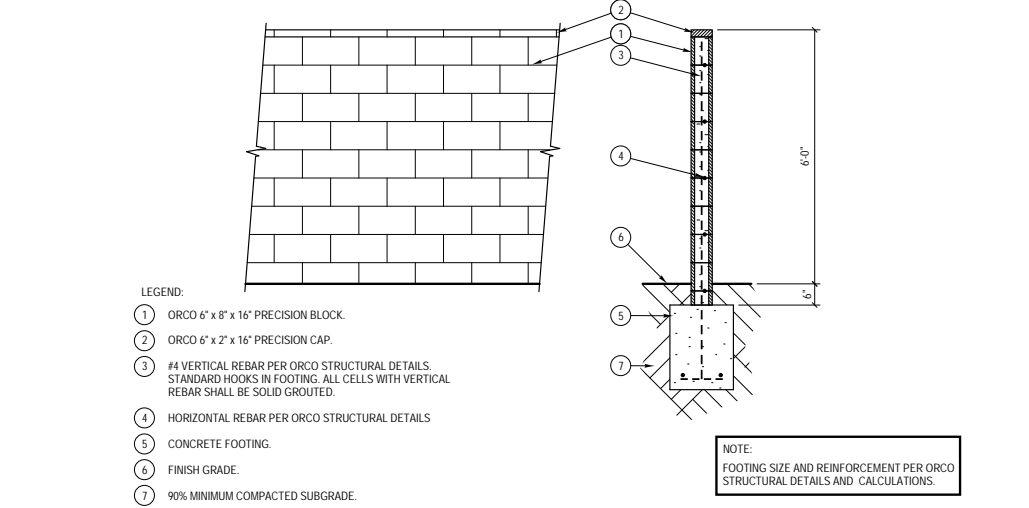
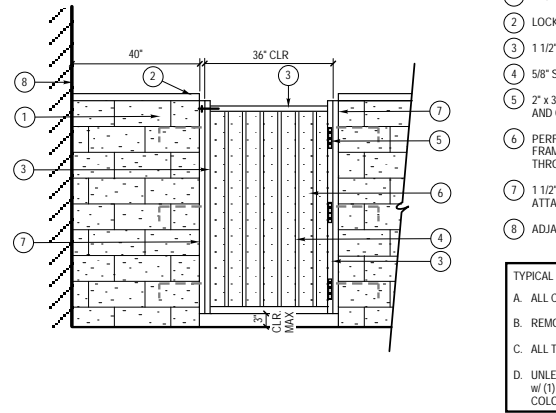
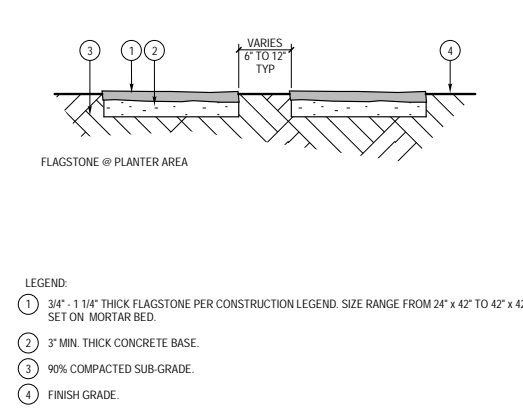
SHEET NO.:
L3
3 OF 10



A CONCRETE PAVING ANDH FINISH
SCALE: NOT TO SCALE

B ALUMINUM EDGING AT GRAVEL
SCALE: 3" = 1'-0"

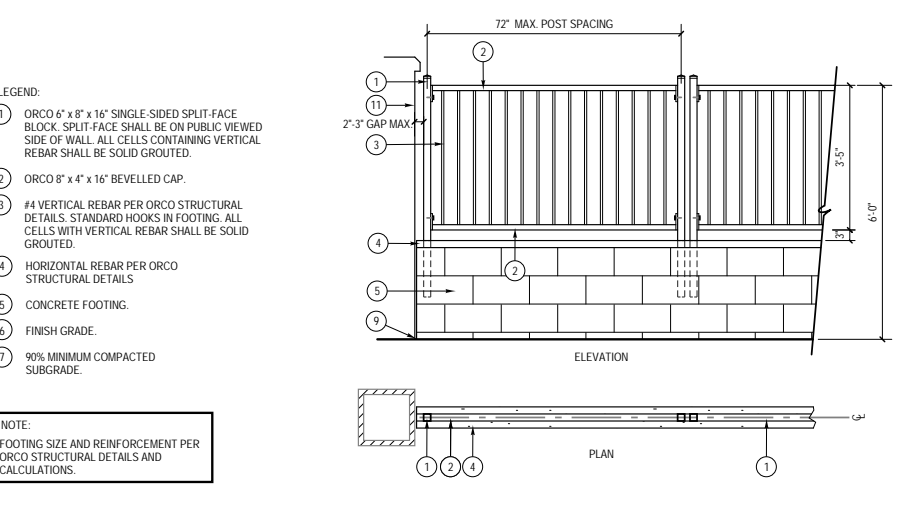
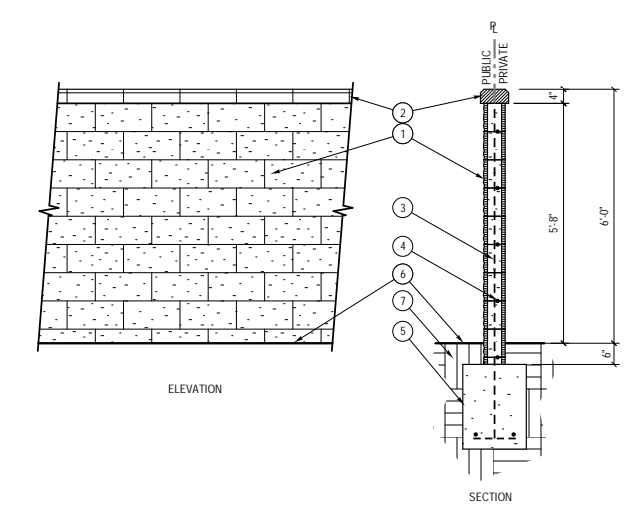
C ALUMINUM EDGING IN PLANTER
SCALE: NOT TO SCALE



D FLAGSTONE IN PLANTER
SCALE: 3/4" = 1'-0"

E TUBULAR STEEL SIDEYARD GATE
SCALE: 1/2" = 1'-0"

F 6' HIGH PRECISION BLOCK WALL w/ PRECISION CAP
SCALE: 1/2" = 1'-0"



G 6' HIGH SINGLE-SIDED SPLIT-FACE WALL w/ BEVELLED CAP
SCALE: 1/2" = 1'-0"

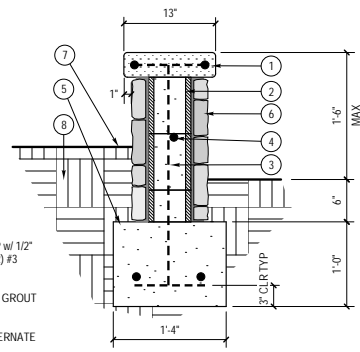
H TUBULAR STEEL FENCE ATOP MASONRY WALL
SCALE: 1/2" = 1'-0"

REVISIONS

SUBMITTALS

DATE:
MM/DD/YY

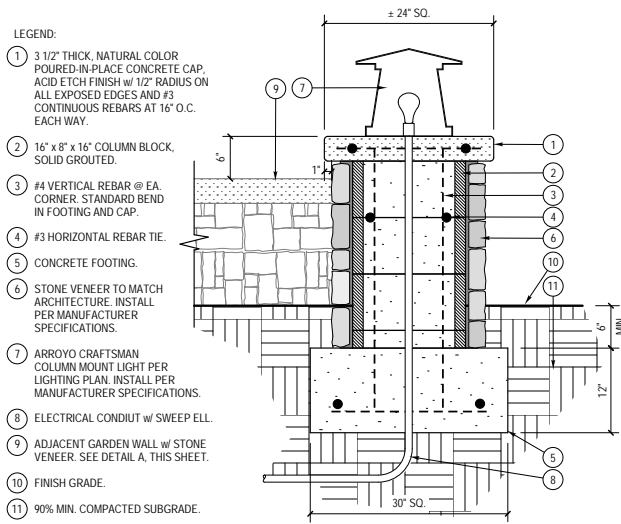
SHEET NO.:
L3
3 OF 10



- LEGEND:
- 3 1/2" THICK, NATURAL COLOR POURED-IN-PLACE CONCRETE CAP w/ 1/2" RADIUS @ ALL EXPOSED EDGES. (2) #3 CONTINUOUS REBAR.
 - 6" x 8" x 16" PRECISION CMU. SOLID GROUT CELLS.
 - #4 VERTICAL REBAR @ 16" o.c. ALTERNATE BENDS IN FOOTING AND CAP.
 - #3 HORIZONTAL REBAR CONTINUOUS.
 - CONTINUOUS CONCRETE FOOTING.
 - ELDORADO STONE 'MESETA FIELDLEDGE' VENEER TO MATCH ARCHITECTURE. INSTALL PER MANUFACTURER SPECIFICATIONS.
 - FINISH GRADE.
 - 90% MIN. COMPACTED SUBGRADE.

A GARDEN WALL w/ STONE VENEER

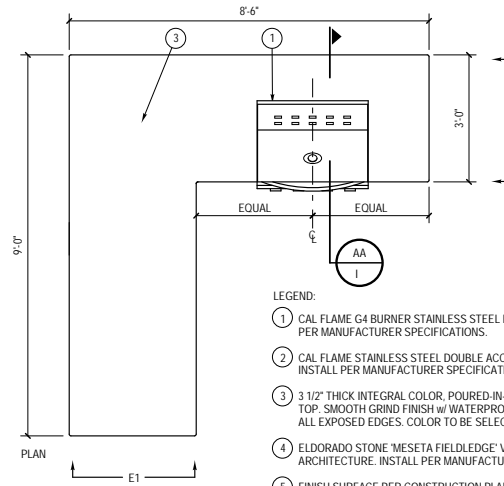
SCALE: 1" = 1'-0"



- LEGEND:
- 3 1/2" THICK, NATURAL COLOR POURED-IN-PLACE CONCRETE CAP. ACID ETCH FINISH w/ 1/2" RADIUS ON ALL EXPOSED EDGES AND #3 CONTINUOUS REBARS AT 16" O.C. EACH WAY.
 - 16" x 8" x 16" COLUMN BLOCK. SOLID GROUTED.
 - #4 VERTICAL REBAR @ EA. CORNER. STANDARD BEND IN FOOTING AND CAP.
 - #3 HORIZONTAL REBAR TIE.
 - CONCRETE FOOTING.
 - STONE VENEER TO MATCH ARCHITECTURE. INSTALL PER MANUFACTURER SPECIFICATIONS.
 - ARROYO CRAFTSMAN COLUMN MOUNT LIGHT PER LIGHTING PLAN. INSTALL PER MANUFACTURER SPECIFICATIONS.
 - ELECTRICAL CONDUIT w/ SWEEP ELL.
 - ADJACENT GARDEN WALL w/ STONE VENEER. SEE DETAIL A, THIS SHEET.
 - FINISH GRADE.
 - 90% MIN. COMPACTED SUBGRADE.

B PILASTER w/ STONE VENEER & LIGHT

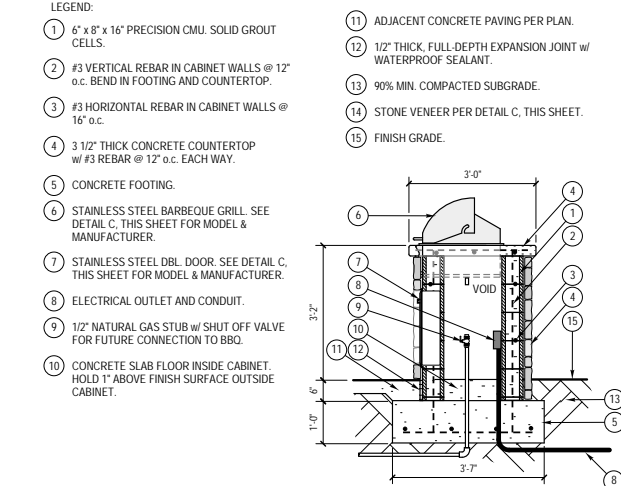
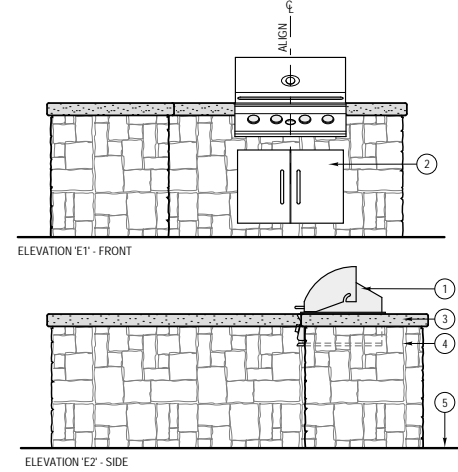
SCALE: 1" = 1'-0"



- LEGEND:
- CAL FLAME G4 BURNER STAINLESS STEEL BARBEQUE GRILL. INSTALL PER MANUFACTURER SPECIFICATIONS.
 - CAL FLAME STAINLESS STEEL DOUBLE ACCESS DOOR #BBQ10839-30. INSTALL PER MANUFACTURER SPECIFICATIONS.
 - 3 1/2" THICK INTEGRAL COLOR, POURED-IN-PLACE CONCRETE COUNTERTOP. SMOOTH GRIND FINISH w/ WATERPROOF SEALANT. 1/2" RADIUS @ ALL EXPOSED EDGES. COLOR TO BE SELECTED.
 - ELDORADO STONE 'MESETA FIELDLEDGE' VENEER TO MATCH ARCHITECTURE. INSTALL PER MANUFACTURER SPECIFICATIONS.
 - FINISH SURFACE PER CONSTRUCTION PLAN.

C OUTDOOR KITCHEN

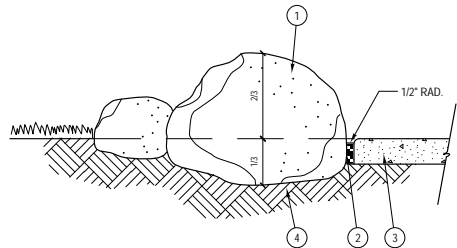
SCALE: 1/2" = 1'-0"



- LEGEND:
- 6" x 8" x 16" PRECISION CMU. SOLID GROUT CELLS.
 - #3 VERTICAL REBAR IN CABINET WALLS @ 12" o.c. BEND IN FOOTING AND COUNTERTOP.
 - #3 HORIZONTAL REBAR IN CABINET WALLS @ 16" o.c.
 - 3 1/2" THICK CONCRETE COUNTERTOP w/ #3 REBAR @ 12" o.c. EACH WAY.
 - CONCRETE FOOTING.
 - STAINLESS STEEL BARBEQUE GRILL. SEE DETAIL C, THIS SHEET FOR MODEL & MANUFACTURER.
 - STAINLESS STEEL DBL. DOOR. SEE DETAIL C, THIS SHEET FOR MODEL & MANUFACTURER.
 - ELECTRICAL OUTLET AND CONDUIT.
 - 1/2" NATURAL GAS STUB w/ SHUT OFF VALVE FOR FUTURE CONNECTION TO BBQ.
 - CONCRETE SLAB FLOOR INSIDE CABINET. HOLD 1" ABOVE FINISH SURFACE OUTSIDE CABINET.
 - ADJACENT CONCRETE PAVING PER PLAN.
 - 1/2" THICK, FULL-DEPTH EXPANSION JOINT w/ WATERPROOF SEALANT.
 - 90% MIN. COMPACTED SUBGRADE.
 - STONE VENEER PER DETAIL C, THIS SHEET.
 - FINISH GRADE.

D KITCHEN SECTION 'AA'

SCALE: 1" = 1'-0"

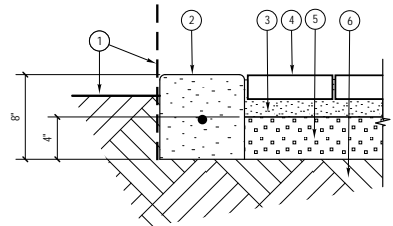


- LEGEND:
- BOULDER PER CONSTRUCTION PLAN. RECESS AT LEAST 1/3 OF BOULDERS DEPTH INTO SUB-GRADE AS SHOWN.
 - 1/2" POLY-FOAM EXPANSION JOINT AT EDGE OF PAVING ABUTTING BOULDERS.
 - ADJACENT CONCRETE PAVING OR MOWSTRIP.
 - 90% COMPACTED SUB-GRADE.

NOTES:
LANDSCAPE ARCHITECT TO APPROVE BOULDERS AND SPOT LOCATIONS PRIOR TO INSTALLATION.

E BOULDER PLACEMENT

SCALE: NOT TO SCALE



- LEGEND:
- ADJACENT FINISH GRADE, PAVING OR BUILDING WALL PER PLAN.
 - SMOOTH TROWEL BAND. WIDTH AND COLOR PER PLAN.
 - 1" THICK WASHED PLASTER SAND LEVELING BED.
 - CONCRETE PAVER. TYPE, COLOR, SIZE AND PATTERN PER PLAN.
 - 4" MIN. THICK COMPACTED MISC. AGGREGATE BASE MATERIAL. INSTALL PAVERS ON 6" THICK BASE AT DRIVEWAY.
 - COMPACTED SUBGRADE PER SOIL ENGINEER'S REPORT.

F PAVERS w/ CONCRETE BAND

SCALE: NOT TO SCALE

LICENSED PROFESSIONAL LOGO AND COMPANY INFORMATION

LICENSE STAMP

LAST NAME RESIDENCE
1357 STREET NAME
OWNER CONTACT INFORMATION

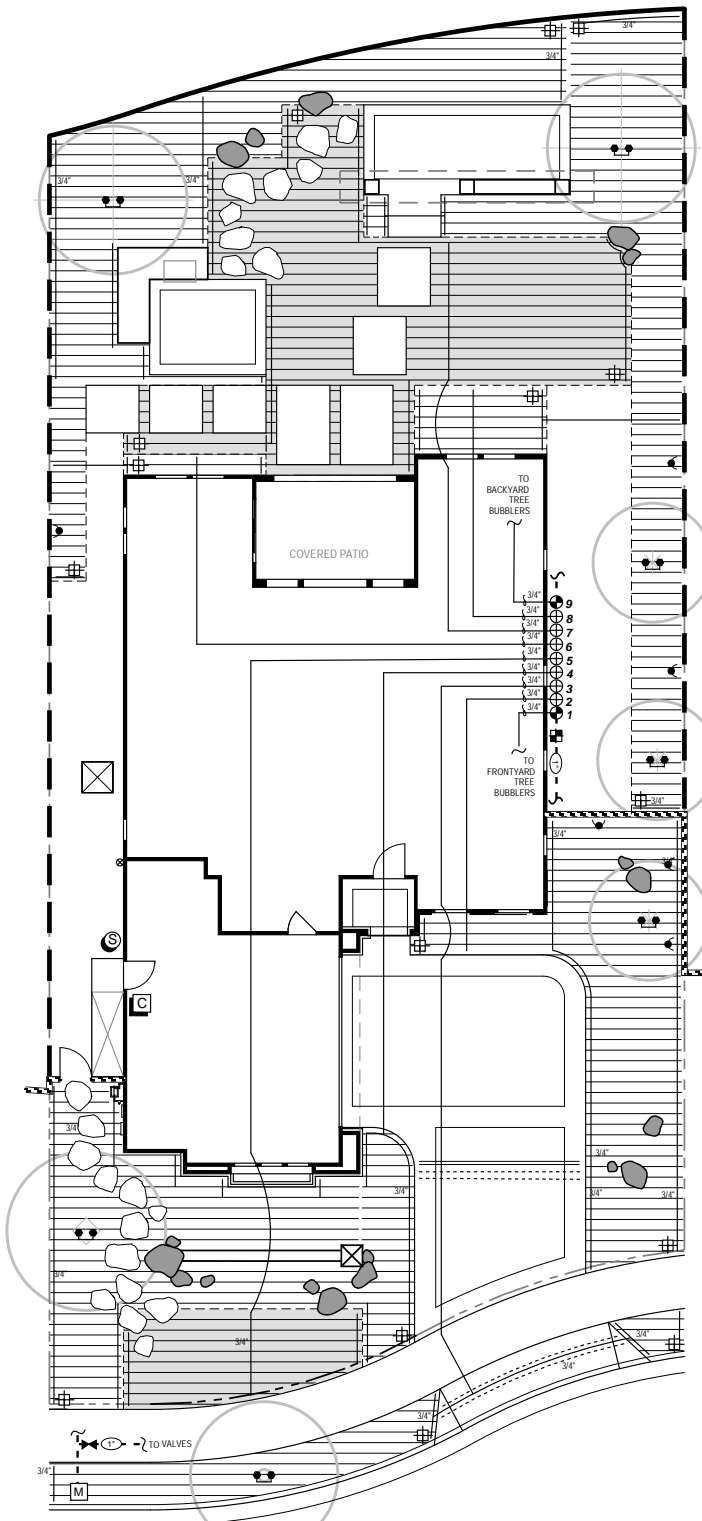
CONSTRUCTION DETAILS

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SHEET NO.:
L4
4 OF 10



POINT OF CONNECTION :
 MAKE POINT OF CONNECTION IMMEDIATELY DOWNSTREAM OF NEW 1" DOMESTIC WATER METER (TO BE PROVIDED BY OTHERS). REFER TO UTILITY PLANS FOR ADDITIONAL INFORMATION. EXTEND NEW TYPE "K" COPPER PIPE (OR AS PER LOCAL CODE) TO LINE SIZE GATE VALVE AND EXTEND TO VALVES AS SHOWN.

STATIC WATER PRESSURE: HIGH: 85 PSI
 SYSTEM DESIGN PRESSURE: 56 PSI
 MAXIMUM IRRIGATION DEMAND: 6 GPM

IRRIGATION NOTES

- THIS SYSTEM IS DIAGRAMMATIC. ALL PIPE, VALVES, ETC. SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHEREVER POSSIBLE.
- DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS INDICATED ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS OR GRADE DIFFERENCES EXIST AND SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR MUST ASSUME FULL RESPONSIBILITY FOR REVISIONS NECESSARY.
- SYSTEM DESIGN IS BASED ON MINIMUM OPERATING PRESSURE SHOWN AT EACH POINT OF CONNECTION WITH MAXIMUM GPM DEMAND SPECIFIED. IRRIGATION CONTRACTOR SHALL VERIFY ALL PRESSURES ON SITE PRIOR TO CONSTRUCTION TO OWNER'S CONSTRUCTION REPRESENTATIVE.
- IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, CURBS, ETC. HE SHALL COORDINATE ALL HIS WORK WITH THE GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS FOR LOCATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADS, PAVING AND STRUCTURES.
- MAINLINE FEEDER BETWEEN POINT OF CONNECTION, METER, AND BACKFLOW PREVENTER TO BE OF MATERIAL REQUIRED BY CURRENT WATER DISTRICT.
- FINAL LOCATION OF THE AUTOMATIC CONTROLLER ENCLOSURE AND THE BACKFLOW PREVENTION DEVICE SHALL BE APPROVED BY THE CITY'S AND OWNER'S REPRESENTATIVE, AND/OR LANDSCAPE ARCHITECT, WHERE APPLICABLE.
- IN ADDITION TO THE SLEEVES SHOWN ON THE PLAN, THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ADDITIONAL SLEEVES OF SUFFICIENT SIZE UNDER ALL PAVED AREAS PRIOR TO PAVING UPON APPROVAL OF THE OWNER'S REPRESENTATIVE, IF REQUIRED TO OPERATE SYSTEMS.
- IRRIGATION CONTRACTOR SHALL FLUSH ALL LINES AND ADJUST ALL HEADS FOR MAXIMUM PERFORMANCE AND TO PREVENT OVERSPRAY ONTO WALKS, STREETS, AND BUILDINGS AS MUCH AS POSSIBLE. THIS SHALL INCLUDE SELECTING THE BEST NOZZLE RADIUS TO FIT UNUSUAL SITE CONDITIONS FOR APPROVAL PURPOSES AT NO EXTRA CHARGE. CALL LANDSCAPE ARCHITECT 48 HOURS IN ADVANCE FOR ANY COVERAGE TESTS.
- QUALITY CONTROL OBSERVATION SEQUENCES ARE FOUND IN THE SPECIFICATIONS.
- CLEAN-UP ON A DAILY BASIS PER OWNER'S REPRESENTATIVE'S APPROVAL.

IRRIGATION LEGEND

SYMBOL	MANUFACTURER	MODEL NUMBER	DESCRIPTION	RADIUS	G.P.M.	P.S.I.	COMMENTS
	NETAFIM	TLCV6-12	CV TECHLINE DRIPLINE	DRI	0.010	30	INSTALL LINES ON GRADE. 3" MULCH COVER 18" APART WHERE SHRUB O.C. SPACING IS 18" OR MORE 12" APART WHERE SHRUB O.C. SPACING IS LESS THAN 18" SEE DETAIL E, SHEET L6
	NETAFIM	TLCV6-12	CV TECHLINE DRIPLINE	DRIP	0.010	30	INSTALL TURF LINES BELOW GRADE. 3" COVER 12" APART. SEE DETAIL E, SHEET L6
	NETAFIM	XB-10PC	DRIP EMITTER	DRIP	0.02	30	INSTALL (2) EMITTERS PER VINE, CONNECT TO PLANTER DRIPLINE. SEE DETAIL H, SHEET L6
	RAINBIRD	RWS-M-B-C-1401	ROOT WATERING SYSTEM	BUB	0.25	30	TWO RWS-BUBLERS PER TREE. SEE DETAIL G, SHEET L6

EQUIPMENT	MANUFACTURER	MODEL NUMBER	DESCRIPTION
	-----	-----	PROPOSED 1" DOMESTIC WATER METER WITH 1" SERVICE LINE BY OTHERS
	NIBCO	T-585	LINE-SIZE BRONZE FULL PORT BALL VALVE IN VALVE BOX. SEE DETAIL A, SHEET L6
	NETAFIM	TLSOV	1/2" MANUAL FLUSH VALVE @ EACH PLANTER IN 4" BOX. SEE DETAIL F, SHEET L6
	RAINBIRD	075-ASVF	3/4" ELECTRIC ANTI-SIPHON CONTROL VALVE. SIZE AS SHOWN. SEE DETAIL B, SHEET L6
	RAINBIRD	XACZ-100-PRF	1" ASV ANTI-SIPHON VALVE w/ DRIP CONTROL ZONE KIT. SEE DETAIL C, SHEET L6
	HUNTER	PC400I, WITH (2) PCM-300	10 STATION INTERIOR CONTROLLER W/ (2) ADDED 3-STATION PLUG IN MODULE (PCM-300). INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND STANDARD DETAILS.
	HUNTER	WSS	WIRELESS SOLAR SYNC W/ WIRELESS RECEIVER AND MODULE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND STANDARD DETAILS
	APPROVED	SCH. 40 PVC	MAINLINE, SIZE AS SHOWN, MIN. COVER 18". SEE DETAIL D, SHEET L6
	APPROVED	SCH. 40 PVC	LATERAL LINE, SIZE AS SHOWN, MIN. COVER 12". SEE DETAIL D, SHEET L6
	APPROVED	SCH. 40 PVC	SLEEVES, SIZED 2X LARGER THAN PIPE TO BE INSERTED, UNLESS OTHERWISE NOTED SEE DETAIL D, SHEET L6
	APPROVED	SCH. 40 PVC	WIRE SLEEVE, SIZE AS REQUIRED, UNLESS OTHERWISE NOTED. SEE DETAIL D, SHEET L6

NETAFIM INSTALLATION NOTES:

- NETAFIM "TECHLINE CV" EMITTERS AND SPACING BETWEEN LINES AS PER IRRIGATION LEGEND.
- LOCATE NETAFIM FLUSH VALVE AT LOWEST POINTS OF SYSTEM. INSTALL IN PLANTER AREA. SEE FLUSH VALVE DETAIL FOR INSTALLATION. LOCATE AIR RELIEF VALVE NEAR SYSTEM HIGH POINT, IF NEEDED.
- CONNECT TECHLINE CV TO PVC WITH PVC TEES AND COMPRESSION FITTINGS. USE COMPRESSION FITTINGS FOR ALL PVC-TO-TECHLINE CV CONNECTIONS. GLUE ALL PVC-TO-PVC CONNECTIONS.

PRESSURE LOSS CALCULATION

PROJECT: LAST NAME RESIDENTIAL BY: XX
 STATIC PRESSURE: HIGH: 85 PSI LOW: 77 PSI
 SOURCE OF INFORMATION: CONTACT NAME
 SUPPLIER: CITY OF RIVERSIDE PUBLIC UTILITIES
 PHONE NUMBER: (XXX) XXX-XXXX
 VALVE STATION/GPM: VALVE 7, 6 GPM

ITEM:		P.S.I. LOSS:
SERVICE LINE SIZE:	1" @ 6 GPM	0.50
WATER METER SIZE:	1" @ 6 GPM	0.50
GATE VALVE(S):	1 1" @ 6 GPM	0.50
PRESSURE REGULATOR:	1 1" @ 6 GPM	5.00
MAINLINE (SCH. 40):	1" 132 L.F. @ 6 GPM	2.50
AUTOMATIC VALVE SIZE:	1" @ 6 GPM	3.50
LATERAL LINE SIZE:	3/4" 125 L.F. @ 6 GPM	2.50
SYSTEM LOSSES SUBTOTAL:		15.00
FITTING LOSSES (10% OF SUBTOTAL):		1.50
IRRIGATION HEAD PRESSURE:		30.00
ELEVATION LOSSES/GAINS (ELEV. X 4.33)		0.00
TOTAL SYSTEM PRESSURE REQD:		46.50
AVAILABLE PRESSURE (LOW):		77.00
SET PRESSURE REGULATOR AT:		62.00
(-) DEFICIT OR (+) RESIDUAL PRESSURE:		(+) 15.50

CONTRACTOR TO SET PRESSURE REGULATOR TO 62 PSI AND FIELD ADJUST REGULATOR AS NECESSARY.

PLAN CROSS REFERENCES

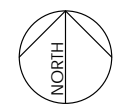
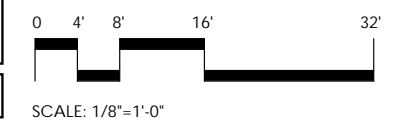
FOR NOTES AND LEGEND SEE THIS SHEET
 FOR IRRIGATION DETAILS, SEE SHEET L6
 FOR IRRIGATION SPECIFICATIONS, SEE SHEET L10
 FOR CORRESPONDING CONSTRUCTION PLAN SEE SHEET L2
 FOR CORRESPONDING PLANTING PLAN SEE SHEET L7

ALL IMPROVEMENTS SHALL BE MAINTAINED BY THE HOMEOWNER OWNER.

THIS SYSTEM IS DESIGNED TO USE WATER FROM A POTABLE SOURCE.

PIPE SIZING CHART:

3/4"	0-8 GPM
1"	8-15 GPM
1 1/4"	15-24 GPM
1 1/2"	24-32 GPM
2"	32-50 GPM



AUTOMATIC CONTROLLER NOTE:
 INSTALL A HUNTER INTERIOR WALL-MOUNTED ELECTRIC CONTROLLER. SEE IRRIGATION LEGEND FOR MODEL NUMBER. OWNER TO PROVIDE 120 VOLT CONTINUOUS INDEPENDENT POWER CIRCUIT TO THIS LOCATION. PROVIDE CONTROLLER, AND COORDINATE CONTROLLER POWER LOCATION WITH OWNER.

SOLAR SYNC SENSOR:
 CONTRACTOR TO INSTALL A WIRELESS SOLAR SYNC SENSOR ON WALL OR FENCE IN AN OPEN AREA TO COLLECT SOLAR AND RAIN WATER.

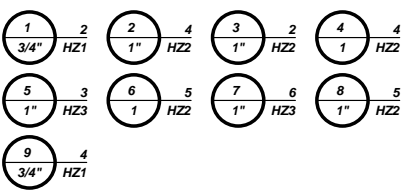
SLEEVING NOTE:
 INSTALL SLEEVES FOR MAINLINES AND LATERALS AT ALL HARDSCAPE CROSSINGS PRIOR TO HARDSCAPE PLACEMENT. PROVIDE SEPARATE SLEEVES FOR CONTROL WIRES WHERE CROSSING PAVING. ALL SLEEVES CROSSING VEHICULAR PAVING SHALL HAVE MINIMUM OF 24" COVER.

HYDROZONE LEGEND:

- HYDROZONE 1 (HZ1): TREES - MODERATE WATER USE, RWS BUBBLER IRRIGATION
- HYDROZONE 2 (HZ2): PLANTER AREAS - MIXED LOW AND MODERATE WATER USE VINES, SHRUBS AND GROUND COVER WITH ON-SURFACE DRIPLINE IRRIGATION
- HYDROZONE 3 (HZ3): TURF - HIGH WATER USE, WITH SUB-SURFACE DRIPLINE IRRIGATION

FOR IRRIGATION DETAILS, CONTROLLER SCHEDULING CHARTS, AND WATER BUDGET CALCULATIONS, SEE SHEET L6

VALVE CALLOUTS



VALVE SIZING KEY



LICENSED PROFESSIONAL LOGO AND COMPANY INFORMATION

LICENSE STAMP

LAST NAME RESIDENCE
 1357 STREET NAME
 OWNER CONTACT INFORMATION

IRRIGATION PLAN

REVISIONS

SUBMITTALS

DATE:
 MM/DD/YY

SHEET SCALE:
 1/8" = 1'-0"

SHEET NO.:
 L5
 5 OF 10



Know what's below.
 Call before you dig.

LICENSED PROFESSIONAL LOGO AND COMPANY INFORMATION

LICENSE STAMP

LAST NAME RESIDENCE
1357 STREET NAME
OWNER CONTACT INFORMATION

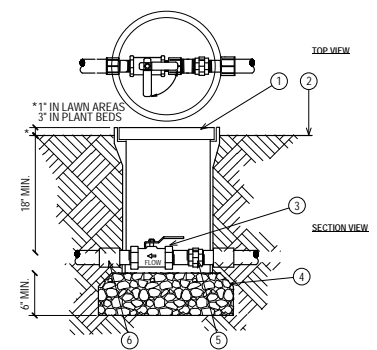
IRRIGATION DETAILS

REVISIONS

SUBMITTALS

DATE:
MM/DD/YY

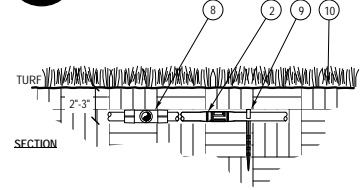
SHEET NO.:
L6
6 OF 10



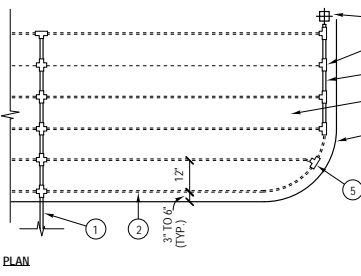
- LEGEND:
- 1 10" ROUND PLASTIC VALVE BOX & COVER MARKED "IRRIGATION BALL"
 - 2 FINISH GRADE.
 - 3 BALL VALVE - SEE IRRIGATION LEGEND FOR MODEL#
 - 4 3/4" WASHED CRUSSED AGGREGATE BASE.
 - 5 SCH. 80 PVC UNION.
 - 6 SCH. 80 PVC MALE ADAPTORS.
- NOTE:
PLACE AGGREGATE PRIOR TO INSTALLATION OF VALVE BOX.

A BALL VALVE

SCALE: 1" = 1'-0"

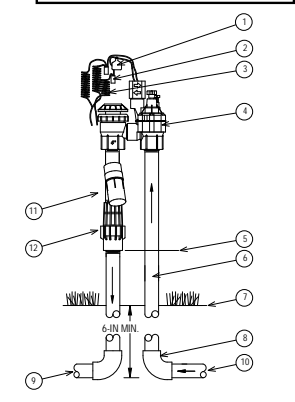


- LEGEND:
- 1 PVC INPUT LATERAL FROM VALVE, SIZE AS NOTED ON IRRIGATION PLAN.
 - 2 NETAFIM DRIPLINE TLCV, EMITTERS AND SPACING BETWEEN LINES AS PER IRRIGATION LEGEND.
 - 3 MANUAL 1/2" FLUSH VALVE, MODEL AS NOTED ON IRRIGATION PLAN. INSTALL IN PLANTER AREA AT LOW END FARTHEST FROM VALVE. SEE FLUSH VALVE DETAIL FOR INSTALLATION.
 - 4 PVC EXHAUST HEADER, SIZE AS REQUIRED (3/4" MINIMUM). CONNECT TECHLINE TO PVC WITH PVC TEES AND COMPRESSION FITTINGS. GLUE ALL PVC-TO-PVC CONNECTIONS.
 - 5 PVC COMPRESSION FITTINGS FOR ALL TECHLINE-TO-TECHLINE CONNECTIONS.
 - 6 PLANTER AREA - SEE PLANS.
 - 7 EDGE OF PLANTER AREA.
 - 8 PVC FITTINGS, TYPE AND SIZE AS REQUIRED. GLUE ALL PVC-TO-PVC CONNECTIONS. USE COMPRESSION FITTINGS FOR ALL PVC-TO-TECHLINE CONNECTIONS.
 - 9 TIE DOWN STAKE, SPACING AT 2' O.C. MAX.
 - 10 FINISH GRADE.

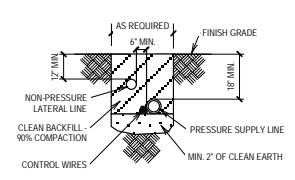


NOTE:
1. ANTI-SIPHON VALVES SHOULD BE INSTALLED 12" ABOVE THE HIGHEST SPRINKLER HEAD ON THAT SYSTEM OR ACCORDING TO LOCAL CODES.
2. INSTALL AS REQUIRED BY LOCAL CODE. USE TEFLON TAPE ON ALL PVC TO PVC OR METAL TO PVC PIPE THREADS.

- LEGEND:
- 1 ID TAG
 - 2 WATERPROOF WATER CONNECTION
 - 3 30-INCH LINEAR LENGTH OF WIRE, COILED
 - 4 ELECTRIC ANTI-SIPHON VALVE ASSEMBLY
 - 5 INSTALL 12-INCH MIN. ABOVE HIGHEST POINT OF DISCHARGE
 - 6 PVC SCH 80 PIPE (1.0E 2)
 - 7 FINISH GRADE / TOP OF MULCH
 - 8 PVC SCH 40 ELL OR TEE
 - 9 PVC LATERAL PIPE PER PLAN
 - 10 PVC MAINLINE PER PLAN



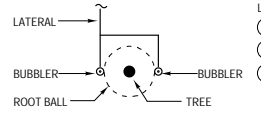
- LEGEND:
- 1 ID TAG
 - 2 WATERPROOF WATER CONNECTION
 - 3 30-INCH LINEAR LENGTH OF WIRE, COILED
 - 4 ELECTRIC ANTI-SIPHON VALVE ASSEMBLY
 - 5 INSTALL 12-INCH MIN. ABOVE HIGHEST POINT OF DISCHARGE
 - 6 PVC SCH 80 PIPE (1.0E 2)
 - 7 FINISH GRADE / TOP OF MULCH
 - 8 PVC SCH 40 ELL OR TEE
 - 9 PVC LATERAL PIPE PER PLAN
 - 10 PVC MAINLINE PER PLAN
 - 11 FILTER
 - 12 PRESSURE REGULATOR



- LEGEND:
- 1 4-INCH LOCKING GRATE
 - 2 BUBBLER, RAINBIRD 0.25 GPM
 - 3 ROOT ZONE WATERING ASSEMBLY RAINBIRD RWIS-M-B-C-1401 (INCLUDES 0.25 BUBBLER PER LEGEND WITH RISER, SWING ASSEMBLY, LOCKING GRATE, 1/2" MALE NPT INLET, AND BASKET CANISTER)
 - 4 FINISH GRADE
 - 5 CHECK VALVE
 - 6 PEA GRAVEL FILL
 - 7 1/2-INCH PVC SCH 80 NIPPLE
 - 8 1/2-INCH 90-DEGREE ELBOW
 - 9 1/2-INCH SWING ASSEMBLY
 - 10 1/2-INCH MALE NPT INLET
 - 11 PVC SCH 40 TEE OR ELL
 - 12 LATERAL PIPE
 - 13 4-INCH BASKET WEAVE CANISTER

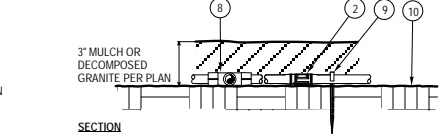
D TRENCHING / SLEEVING

SCALE: NOT TO SCALE



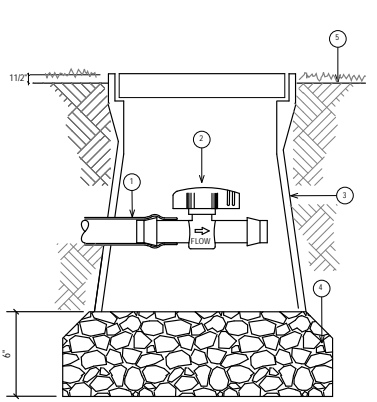
B ANTI-SIPHON VALVE

SCALE: NOT TO SCALE



C A/S DRIP VALVE

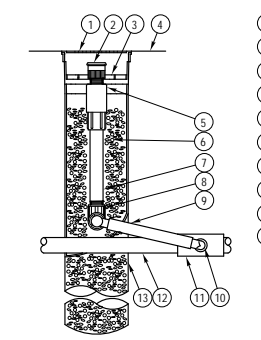
SCALE: NOT TO SCALE



- LEGEND:
- 1 1/2" DIAMETER DRIPLINE
 - 2 MANUAL FLUSH VALVE
 - 3 6" DIAMETER PLASTIC VALVE BOX
 - 4 4" CRUSHED GRAVEL
 - 5 FINISH GRADE

G ROOT ZONE BUBBLERS AT TREE

SCALE: NOT TO SCALE



F DRIPLINE ON-GRADE

SCALE: NOT TO SCALE

CONTROLLER SCHEDULING CHART - PLANT ESTABLISHMENT PERIOD

AVERAGE DAILY RUN TIMES (MINUTES)																	
Valve	Equipment	I.E.	Plant Material	K.L.	P.R.	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
1	Tree Bubbler	0.81	Trees	0.50	3.85	2	2	3	4	4	5	5	5	4	3	2	2
2	Dripline	0.81	Low Shrub/Vine	0.20	0.80	3	4	6	7	8	9	9	9	7	5	4	3
3	Dripline	0.81	Low Shrub/Vine	0.20	1.13	2	3	4	5	6	6	7	6	5	4	3	2
4	Dripline	0.81	Low Shrub/Vine	0.20	0.68	4	5	7	8	9	10	11	11	8	6	5	4
5	Dripline	0.81	Turf	0.80	1.56	7	8	11	14	16	18	20	19	15	11	8	7
6	Dripline	0.81	Low Shrub/Vine	0.20	0.79	3	4	6	7	8	9	10	9	7	5	4	3
7	Dripline	0.81	Turf	0.80	0.79	13	16	23	29	32	36	39	37	29	22	16	14
8	Dripline	0.81	Low Shrub/Vine	0.20	0.79	3	4	6	7	8	9	10	9	7	5	4	3
9	Tree Bubbler	0.81	Trees	0.40	3.85	1	2	2	3	3	4	4	4	3	2	2	1
Monthly Evapotranspiration Rate						2.5	2.9	4.2	5.3	5.9	6.6	7.2	6.9	5.4	4.1	2.9	2.6

RUN TIME FORMULA = 2(60°E.T.)/(P.R. * 28 DAYS) * K.L. / (1/E)

NOTE:
1. The plant establishment water schedules are shown for guideline use only and are to be modified according to plant needs and as the weather changes.
2. It is based on the monthly evapotranspiration rates for City of Riverside, CA.

CONTROLLER SCHEDULING CHART - ESTABLISHED LANDSCAPE

AVERAGE DAILY RUN TIMES (MINUTES)																	
Valve	Equipment	I.E.	Plant Material	K.L.	P.R.	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
1	Tree Bubbler	0.81	Trees	0.50	3.85	1	1	1	2	2	2	2	2	2	1	1	1
2	Dripline	0.81	Low Shrub/Vine	0.20	0.80	2	2	3	3	4	4	5	5	4	3	2	2
3	Dripline	0.81	Low Shrub/Vine	0.20	1.13	1	1	2	2	3	3	3	3	3	2	1	1
4	Dripline	0.81	Low Shrub/Vine	0.20	0.68	2	2	3	4	5	5	6	5	4	3	2	2
5	Dripline	0.81	Turf	0.80	1.56	3	4	6	7	8	9	10	9	7	6	4	4
6	Dripline	0.81	Low Shrub/Vine	0.20	0.79	2	2	3	4	4	4	5	5	4	3	2	2
7	Dripline	0.81	Turf	0.80	0.79	7	8	11	14	16	18	19	19	15	11	8	7
8	Dripline	0.81	Low Shrub/Vine	0.20	0.79	2	2	3	4	4	4	5	5	4	3	2	2
9	Tree Bubbler	0.81	Trees	0.40	3.85	1	1	1	1	2	2	2	2	1	1	1	1
Monthly Evapotranspiration Rate						2.5	2.9	4.2	5.3	5.9	6.6	7.2	6.9	5.4	4.1	2.9	2.6

RUN TIME FORMULA = 2(60°E.T.)/(P.R. * 28 DAYS) * K.L. / (1/E)

NOTE:
1. The water schedules are shown for guideline use only and are to be modified accordingly as the weather changes with the assistance of a programmed smart controller.
2. It is based on the monthly evapotranspiration rates for City of Riverside, CA.

Reference ETo for the area ETo = 56.4

Estimated Total Water Use (ETWU):
ETWU is calculated using the following formula: (Eto) (.62) (ETAF) (LA) where ETWU ETAF if PF/IE

Hydrozone # / Planting Description	Plant Factor (PF)	Irrigation Method	Irrigation Efficiency (IE)	ETAF (PF/IE)	Landscape Area (sq. ft.)	ETAF x Landscape Area	Estimated Total Water Use (ETWU) gal/acre/yr.
Regular Landscape Areas							
H21 - Moderate Tree	0.5	Drip	0.81	0.62	100	62	2199
H22 - Low Shrub/Vine	0.2	Drip	0.81	0.25	2,427	599	20955
H24 - Turf	0.8	Drip	0.81	0.99	923	912	31877
Totals						3,450	1573
Special Landscape Areas							
Totals						0	0
Estimated Total Water Use in gallons per year, ETWU Total						54990	
Maximum Annual Water Allowance in gallons per year, MAWA Total						66352	

MAWA calculation: (Eto) (.62) [(ETAFxLA) + ((1-ETAF) x SLA)] where Residential MAWA ETAF factor is 0.55
MAWA - ETWU = 11361

ETAF Calculations:

Regular Landscape Areas	Total ETAF x Area	Total Area	Average ETAF
	1573	3,450	0.46

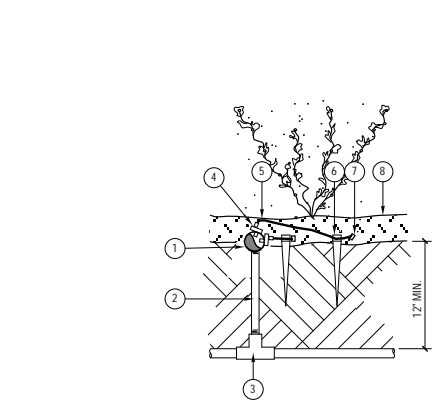
Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas.

All Landscape Areas

Total ETAF x Area	Total Landscape Area (LA)	Sitewide ETAF
1573	3,450	0.46

E DRIPLINE BELOW GRADE, TYPICAL CONDITION

SCALE: 1" = 1'-0"



- LEGEND:
- 1 PLANTER DRIPLINE IRRIGATION LEGEND.
 - 2 1/2" PVC NIPPLE, LENGTH AS REQUIRED.
 - 3 PVC TEE (SX/SXT).
 - 4 DRIP EMITTER PER PLAN.
 - 5 1/4" EMITTER DISTRIBUTION TUBING, LENGTH AS REQUIRED.
 - 6 EMITTER LINE STABILIZER.
 - 7 BUG CAP.
 - 8 3" LAYER OF MULCH.
- NOTE:
CONTRACTOR TO COORDINATE INSTALLATION OF PIPING UNDER HARDSCAPE w/ GENERAL CONTRACTOR.

H DRIP EMITTERS TO VINE

SCALE: 1" = 1'-0"

I CONTROLLER SCHEDULING CHARTS AND WATER CALCULATIONS

SCALE: NOT TO SCALE

LICENSED PROFESSIONAL LOGO AND COMPANY INFORMATION

LICENSE STAMP

LAST NAME RESIDENCE
1357 STREET NAME
OWNER CONTACT INFORMATION

PLANTING PLAN

REVISIONS

SUBMITTALS

DATE:
MM/DD/YY

SHEET SCALE:
1/8" = 1'-0"

SHEET NO.:
L7
7 OF 10

PLANTING NOTES

- SHRUB LAYOUT AS SHOWN ON PLAN INDICATES "SHRUB MASSES." QUANTITIES ARE AS SHOWN ON PLAN, ON-CENTER SPACING AS SHOWN ON LEGEND. CONTRACTOR TO VERIFY QUANTITIES BASED ON SPACING AND ADD ADDITIONAL PLANT MATERIAL (AT NO ADDITIONAL COST TO THE OWNER) REQUIRED TO MAINTAIN DESIGN INTENT DUE TO EXISTING SITE CONDITIONS NOT ANTICIPATED DURING DESIGN. LAYOUT/SPACING WILL EITHER BE TRIANGULAR OR LINEAR AS SHOWN ON PLAN OR LEGEND. LANDSCAPE ARCHITECT TO APPROVE FINAL LAYOUT IN FIELD PRIOR TO INSTALLATION.
- CONTRACTORS SHALL NOTIFY THE LANDSCAPE ARCHITECT OF SITE CONDITIONS WHICH PREVENT INSTALLATION PER PLANS AND SPECIFICATIONS.
- CONTRACTOR SHALL BE LIABLE FOR REMOVING AND RE-INSTALLING IRRIGATION EQUIPMENT, AND REPLANTING AREAS WHICH ARE NOT INSTALLED PER PLAN AND SPECIFICATIONS.
- REFER TO PLANTING SPECIFICATIONS FOR INSPECTION/CERTIFICATION SCHEDULE.
- IRRIGATION SYSTEM SHALL BE INSTALLED AND OPERATIONAL PRIOR TO INSTALLATION OF PLANT MATERIALS.
- TREES AND SHRUBS SHALL BE PLANTED AFTER CONCRETE PLACEMENT, BUT NOT BEFORE IRRIGATION COVERAGE TEST NO. 1 HAS BEEN APPROVED. (SEE SPECIFICATIONS).
- PLACE TREES BETWEEN IRRIGATION HEADS WHEREVER POSSIBLE.
- IF ROUGH GRADING IS COMPLETED AFTER LANDSCAPE DOCUMENTS WERE PREPARED, LANDSCAPE CONTRACTOR SHALL TAKE FOUR (2) SOIL SAMPLES FROM THE SITE. THE SAMPLES SHALL BE TAKEN AT A DEPTH OF 12" AND SUBMITTED TO AN APPROVED SOIL AND PLANT LABORATORY FOR AGRICULTURAL SUITABILITY TESTING. THE COST OF TESTING SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
- THE RECOMMENDATIONS OF THE SOIL REPORT SHALL SUPERSEDE THE SOIL PREPARATION AND BACKFILL MIX SPECIFICATIONS (SEE SPECIFICATIONS). THE CONTRACTOR SHALL SUBMIT A COPY OF ALL SOILS REPORTS TO THE LANDSCAPE ARCHITECT PRIOR TO MODIFICATION OF THESE SPECIFICATIONS.
- SHREDDED MULCH INSTALLATION: INSTALL SHREDDED MULCH IN ALL SHRUB AND GROUND COVER AREAS PER SPECIFICATIONS UNLESS OTHERWISE INDICATED ON PLANS.
- CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS AND/OR REPLACEMENT OF ANY DAMAGED LANDSCAPE AREAS BEYOND THE LIMIT OF WORK, INCLUDING REPAIRING ANY IRRIGATION LINES/SPRINKLER HEADS, THAT IS A DIRECT RESULT OF THE LANDSCAPE CONSTRUCTION AND/OR HIS SUB-CONTRACTOR. REPLACEMENT ITEMS SHALL BE EXACT DUPLICATION OF ORIGINAL WORK OR PLANTS, UNLESS OTHERWISE APPROVED BY THE LANDSCAPE ARCHITECT.
- WHEREVER GROUND COVER AREAS ARE ADJACENT TO TURF INSTALL CONCRETE MOWSTRIP OR HEADERBOARD AS INDICATED ON DRAWINGS.
- CLEAN-UP SHALL TAKE PLACE ON A DAILY BASIS UNLESS OTHERWISE APPROVED BY THE OWNER'S REPRESENTATIVE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL GRADES AND FLOW LINES AS SHOWN ON THE GRADING PLAN. WHERE SOD IS TO BE INSTALLED ON A SLOPE, THE FINISH GRADE MUST BE ADJUSTED SO THE SOD DOES NOT RESTRICT THE FLOW.

PLANTING LEGEND

SYMBOL CALLOUT	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	COMMENTS	WATER USE	QTY
TREES							
	<i>Quercus agrifolia</i>	Coast Live Oak	36" box	Per plan	Matched	L	2
	<i>Arbutus 'Marina'</i>	Strawberry Tree	24" box	Per plan		M	3
	<i>Magnolia g. 'Samuel Sommer'</i>	Samuel Sommer Magnolia	36" box	Per plan		M	1
	<i>Magnolia g. 'St. Mary'</i>	St. Mary Magnolia	24" box	Per plan	Street Tree	M	1
SHRUBS							
	<i>Rhamnus c. 'Mound San Bruno'</i>	Coffeeberry	15 gal.	42" o.c.		L	30
	<i>Podocarpus m. 'Maki'</i>	Shrubby Yew Pine	15 gal.	Per plan		L	17
	<i>Rosmarinus p. 'Blue Spires'</i>	Blue Spires Rosemary	15 gal.	Per plan		L	3
	<i>Hesperaloe parviflora</i>	Red Yucca	15 gal.	30" o.c.		L	15
	<i>Hesperaloe parviflora</i>	Red Yucca	5 gal.	30" o.c.		L	15
	<i>Callistemon 'Little John'</i>	Dwarf Bottlebrush	15 gal.	24" o.c.		L	11
	<i>Callistemon 'Little John'</i>	Dwarf Bottlebrush	5 gal.	24" o.c.		L	88
	<i>Muhlenbergia dubia</i>	Pine Muhly	5 gal.	Per plan		L	26
	<i>Dianella revoluta 'Little Rev'</i>	Little Rev Flax Lily	5 gal.	30" o.c.		L	43
	<i>Coreopsis 'Early Sunrise'</i>	Early Sunrise Coreopsis	1 gal.	18" o.c.		L	72
	<i>Salvia 'Bee's Bliss'</i>	Bee's Bliss Sage	1 gal.	18" o.c.		L	178
GROUNDCOVERS							
	<i>Marathon II</i>	Turf	SOD	Install per manuf's rec's		H	923 s.f.
	<i>Senecio mandraliscae</i>	Kleinia	1 gal.	18" o.c.		L	105
	<i>Teucrium cossonii</i>	Marjorcan Germander	1 gal.	12" o.c.		L	115
VINES							
	<i>Macfadyena unguis-cati</i>	Cal's Claw Vine	15 gal.	Per plan	Train to wall	L	6

MULCH NOTE:
INSTALL A 3" LAYER OF COVER MULCH IN ALL SHRUB AREAS (1 1/2" IN GROUND COVER AREAS). MULCH AVAILABLE FROM EARTHWORKS, RIVERSIDE, CA. SUBMIT SAMPLE OF ANY ALTERNATIVE MATERIAL PRIOR TO PURCHASE AND/OR PLACEMENT FOR OWNER'S REPRESENTATIVE'S APPROVAL.

HYDROZONE LEGEND:

- HYDROZONE 1 (HZ1): TREES - MODERATE WATER USE, RWS BUBBLER IRRIGATION
- HYDROZONE 2 (HZ2): PLANTER AREAS - LOW USE VINES, SHRUBS AND GROUND COVER WITH ON-SURFACE DRIPLINE IRRIGATION
- HYDROZONE 3 (HZ3): TURF - HIGH WATER USE, WITH SUB-SURFACE DRIPLINE IRRIGATION

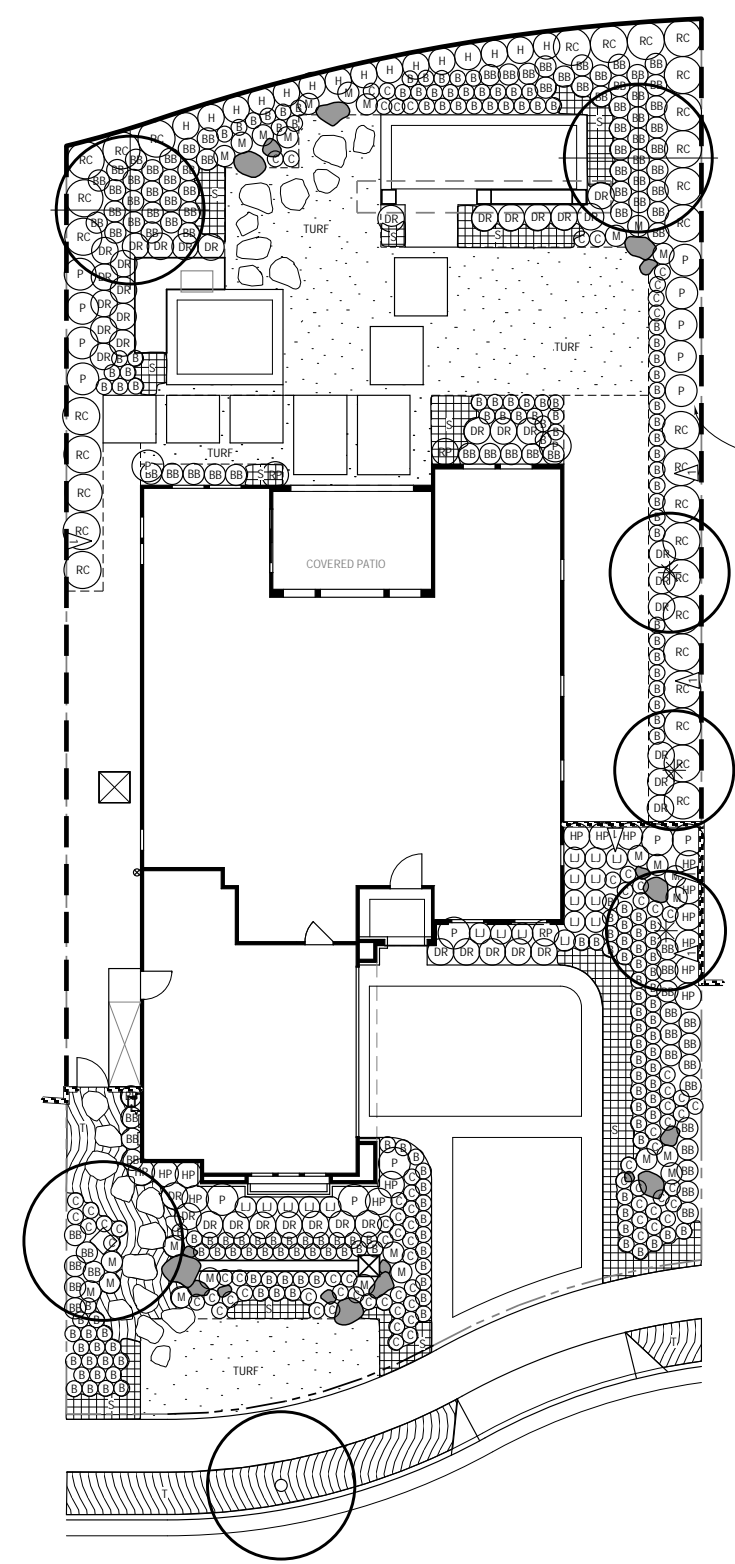
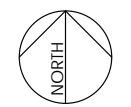
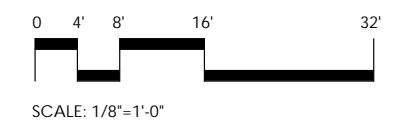
FOR IRRIGATION DETAILS, CONTROLLER SCHEDULING CHARTS, AND WATER BUDGET CALCULATIONS, SEE SHEET L6

PLANT SPACING NOTE:
SHRUB LAYOUT AS SHOWN ON PLAN INDICATES "SHRUB MASSES." QUANTITIES ARE AS SHOWN ON PLAN, ON-CENTER SPACING AS SHOWN ON LEGEND. CONTRACTOR TO VERIFY QUANTITIES BASED ON SPACING AND ADD ADDITIONAL PLANT MATERIAL, AT NO ADDITIONAL COST TO THE OWNER, AS REQUIRED TO MAINTAIN DESIGN INTENT DUE TO EXISTING SITE CONDITIONS NOT ANTICIPATED DURING DESIGN. LAYOUT/SPACING WILL EITHER BE TRIANGULAR OR LINEAR AS INDICATED ON PLAN OR LEGEND. LANDSCAPE ARCHITECT TO APPROVE FINAL LAYOUT IN FIELD PRIOR TO INSTALLATION.

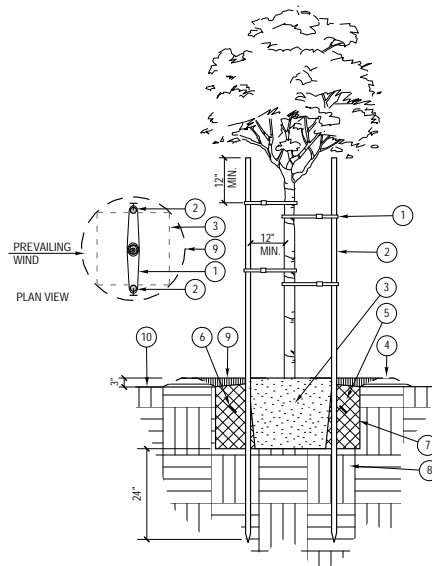
PHOTO SUBMITTAL NOTE:
ALL PLANT MATERIAL, INCLUDING TREES, SHRUBS, AND VINES, SHALL BE INSPECTED AND APPROVED BY LANDSCAPE ARCHITECT, VIA PHOTO SUBMITTALS, PRIOR TO DELIVERY TO SITE. PHOTO SUBMITTALS SHALL INCLUDE NURSERY SUPPLIES AND DATE OF PHOTOS. ANY MATERIAL DELIVERED TO SITE WITHOUT APPROVAL IS SUBJECT TO REJECTION. PHOTO SUBMITTALS SHALL BE SENT TO LANDSCAPE ARCHITECT A MINIMUM OF 48 HOURS PRIOR TO SHIPMENT OF MATERIAL. SUBMITTALS SHOULD INCLUDE SOME TYPE OF SCALE REFERENCE IN PHOTO (I.E. PERSON, MEASURING TAPE, ETC.). TREES SHALL BE NOTED WITH HEIGHT FROM FINISH GRADE IN CONTAINER AND CANOPY HEAD SIZE. LANDSCAPE ARCHITECT SHALL BE NOTIFIED OF SCHEDULED NURSERY DELIVERY TIMES A MINIMUM OF 24 HOURS PRIOR TO SHIPMENT. REFER TO PLANTING SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS REGARDING QUALITY OF NURSERY STOCK.

PLAN CROSS REFERENCES

FOR NOTES AND LEGENDS, SEE THIS SHEET
FOR PLANTING DETAILS, SEE SHEET L8
FOR PLANTING SPECS, SEE SHEET L-10
FOR CORRESPONDING CONSTRUCTION PLAN SEE SHEET L2
FOR CORRESPONDING IRRIGATION PLAN SEE SHEET L5

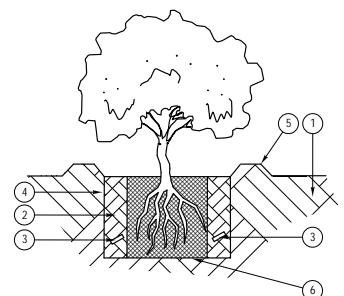


Know what's below.
Call before you dig.



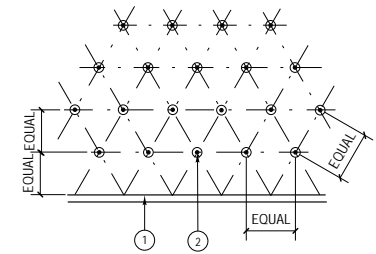
- LEGEND:
- 1 "CINCH TIE" AS MANUFACTURED BY V.I.T. CO. (2) PER POLE. SEE SPECIFICATIONS. NAIL TO TREE STAKE w/ 1" GALV. ROOFING NAIL (4) REQUIRED.
 - 2 2" DIA. x 10' LONG LODGEPOLE PINE TREE STAKE. (2) PER TREE. LOCATE OUTSIDE ROOT BALL.
 - 3 CONTAINER ROOT BALL. SET 3" ABOVE F.G.
 - 4 TEMPORARY 3" BERM TO FORM DEPRESSED WATERING BASIN. ALL SIDES.
 - 5 PREPARED BACKFILL MIX PER SOIL REPORT RECOMMENDATIONS.
 - 6 FERTILIZER TABLETS AND QUANTITY PER PLANTING SPECIFICATIONS.
 - 7 PLANT PIT TO BE TWICE ROOTBALL WIDTH. SET ROOTBALL ON UNDISTURBED NATIVE SUBGRADE.
 - 8 UNDISTURBED NATIVE SOIL.
 - 9 2" MULCH LAYER. 3'-0" DIA. IN TURF AREAS.
 - 10 FINISH GRADE.
- LEGEND:
- A UNTANGLE MATTED ROOTS BY LOOSENING WALL ROOTS AT EDGE OF ROOTBALL w/ WATER FROM HOSE. DO NOT CRACK ROOTBALL.
 - B PLACE FERTILIZER TABS IN PLANT PIT PRIOR TO PLANTING FOR OBSERVATION PURPOSES.
 - C SET STAKES PERPENDICULAR TO PREVAILING WINDS.

A DOUBLE STAKE TREE PLANTING
SCALE: 1" = 1'-0"



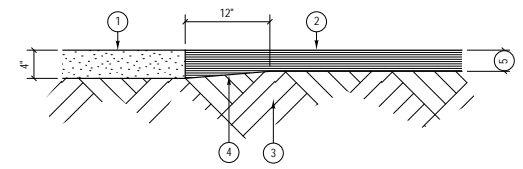
- LEGEND:
- 1 UNDISTURBED NATIVE SOIL.
 - 2 BACKFILL MIX PER PLANTING SPECIFICATIONS.
 - 3 FERTILIZER TABLETS PER SPECIFICATIONS.
 - 4 PLANT PIT TWICE ROOTBALL WIDTH.
 - 5 3" BERM TO FORM WATERING BASIN.
 - 6 ROOTBALL SET ON NATIVE SOIL.
- NOTES:
- A UNTANGLE MATTED ROOTS BY LOOSENING ALL ROOTS @ EDGE OF ROOTBALL w/ WATER FROM HOSE. DO NOT CRACK BALL OF ROOTS.
 - B PLACE FERTILIZER TABS IN PLANT CONTAINER PRIOR TO PLANTING FOR OBSERVATION PURPOSES.

B SHRUB PLANTING DETAIL
SCALE: NOT TO SCALE



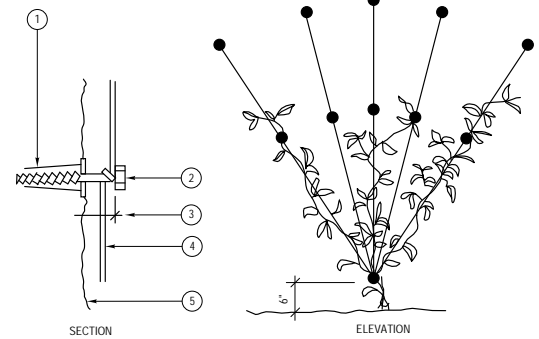
- LEGEND:
- 1 BACK OF CURB OR EDGE OF PAVING.
 - 2 PLANT LOCATION.
- NOTE:
- ALL SHRUBS / GROUND COVER SHALL BE PLANTED AT EQUAL SPACING (TRIANGULAR) UNLESS OTHERWISE INDICATED ON PLANS. SEE PLANTING LEGEND FOR SPACING REQUIREMENTS.

C SHRUB & G.C. SPACING
SCALE: NOT TO SCALE



- LEGEND:
- 1 HARDSCAPING / HEADERBOARD.
 - 2 SHREDDED MULCH (MEDIUM GRIND) DO NOT USE BARK CHIPS.
 - 3 FINISH GRADE.
 - 4 SHOVEL CUT DEEPENED EDGE ADJACENT TO PAVING.
 - 5 MULCH DEPTH PER PLANTING PLAN.
- NOTE:
- MULCH UNDER TREES AND SHRUBS, AND BLEND INTO EDGES AT GROUND COVER AREAS.

D MULCH
SCALE: NOT TO SCALE



- LEGEND:
- 1 #6X1" PLASTIC EXPANSION SHIELD
 - 2 #6X1 3/4" GALV. MACHINE BOLT
 - 3 3/4" SPACE
 - 4 14 GA. WIRE LAV. PAINT TO MATCH WALL
 - 5 WALL

E VINE PLANTING
SCALE: 1" = 1'-0"

SOIL LABORATORIES		SOILS REPORT		Print Date
STREET NUMBER AND NAME		Location		MM/DD/YYYY 14
CITY, STATE AND ZIP CODE		Requester		Project Name
PHONE (XXX) XXX-XXXX		Project Manager, Company Name, Group		
(510) 613-9110		graphic interpretation: * very low, ** low, *** moderate		
ammonium bicarbonate/DTPA		*** high, **** very high		
extractable - mg/kg soil	Sample ID Number	#11111116		
Interpretation of data	Sample Description	Soil Sample Received MM/DD/YYYY		
low medium high	elements	graphic		
0 - 7 8-15 over 15	phosphorus	27.04 ****		
0-60 60-120 121-180	potassium	187.12 ****		
0 - 4 4 - 10 over 10	iron	9.64 ***		
0- 0.5 0.6- 1 over 1	manganese	13.55 ****		
0 - 1 1 - 1.5 over 1.5	zinc	5.21 ****		
0- 0.2 0.3- 0.5 over 0.5	copper	1.55 ****		
0- 0.2 0.2- 0.5 over 1	boron	0.14 **		
	calcium	315.78 ***		
	magnesium	174.58 ****		
	sodium	7.31 *		
	sulfur	15.21 *		
	molybdenum	0.07 ***		
	nickel	0.40 *		
	aluminum	nd *		
	arsenic	nd *		
	barium	0.63 *		
	cadmium	0.12 *		
	chromium	0.08 *		
	cobalt	0.20 *		
	lead	0.46 *		
	lithium	0.28 *		
	mercury	nd *		
	selenium	nd *		
	silver	nd *		
	strontium	1.07 *		
	tin	nd *		
	vanadium	0.25 *		
	Saturation Extract			
	pH value	6.69 ***		
	ECe (milli-mho/cm)	0.78 **		
	calcium	108.6 5.4 millieq/l		
	magnesium	29.0 2.4		
	sodium	8.6 0.4		
	potassium	34.0 0.9		
	cation sum	9.1		
	chloride	37 1.0		
	nitrate as N	29 2.1		
	phosphorus as P	5.9 0.2		
	sulfate as S	19.3 1.2		
	anion sum	4.5		
	boron as B	0.11 *		
	SAR	0.2 *		
	est. gypsum requirement-lbs./1000 sq. ft.	1		
	relative infiltration rate	fair		
	estimated soil texture	sandy loam		
	lime (calcium carbonate)	no		
	organic matter	fair/good hydrophobic		
	moisture content of soil	1.8%		
	half saturation percentage	21.5%		

Elements are expressed as mg/kg dry soil or mg/l for saturation extract.
pH and ECe are measured in a saturation paste extract. nd means not detected.
Analytical data determined on soil fraction passing a 2 mm sieve.

F SOIL ANALYSIS AND RECOMMENDATIONS REPORT
SCALE: NOT TO SCALE

SOIL LABORATORIES
STREET NUMBER AND NAME
CITY, STATE AND ZIP CODE
PHONE (XXX) XXX-XXXX

Dear Allen,

The soil is slightly acidic with a pH of 6.69. Salinity is modest at 0.78 millimho/cm. Nitrogen and iron are modest. Boron and sulfur are low. Phosphorus, potassium, magnesium and the other micronutrients are well supplied. Sodium is low. The soil is hydrophobic. It is difficult to wet. Water beads up on the soil surface initially and then slowly moves into the soil.

Recommendations
Soil Amendment
General soil preparation on a square foot basis. Broadcast the following materials uniformly. The rates are per 1,000 square feet. Incorporate them homogeneously 6 inches deep:

agricultural gypsum - 10 pounds
good quality soil amendment - as needed, sufficient for 3% to 5% soil organic matter on a dry weight basis

Backfill
For preparation on a volume basis, uniformly blend the following materials into clean excavated soil. Rates are per cubic yard:

agricultural gypsum - 1/2 pound
good quality soil amendment - as needed, sufficient for 3% to 5% soil organic matter on a dry weight basis

Organic soil amendment

- Humus material shall have an acid-soluble ash content of no less than 6% and no more than 20%. The organic matter content shall be at least 50% on a dry weight basis.
- The pH of the material shall be between 6 and 7.5.
- The salt content shall be less than 10 millimho/cm @ 25° C. (ECe less than 10) in a saturated paste extract.
- Boron content of the saturated extract shall be less than 1.0 part per million.
- Silicon content (acid-insoluble ash) shall be less than 50%.
- Calcium carbonate shall not be present if to be applied on alkaline soils.

- Types of acceptable products are composts, manures, mushroom composts, straw, alfalfa, peat mosses etc. low in salts, low in heavy metals, free from weed seeds, free of pathogens and other deleterious materials.
- Composted wood products are conditionally acceptable [stable humus must be present]. Wood based products are not acceptable which are based on red wood or cedar.
- Sludge-based materials are not acceptable.
- Carbon:nitrogen ratio is less than 25:1.
- The compost shall be aerobic without malodorous presence of decomposition products.
- The maximum particle size shall be 0.5 inch, 80% or more shall pass a No. 4 screen.

Maximum total permissible pollutant concentrations in amendment in parts per million on a dry weight basis:

arsenic	20	copper	150	selenium	30
cadmium	15	lead	100	silver	10
chromium	100	mercury	10	vanadium	200
cobalt	50	molybdenum	20	zinc	200
		nickel	100		

Irrigate areas which are hydrophobic slowly with multiple start cycles and soaking periods in between the irrigation cycles.

For site maintenance, apply calcium nitrate (15.5-0-0) at 6 pounds per 1,000 square feet about once per quarter. Monitor the site with periodic soil testing. Adjust the maintenance program as needed.

LICENSED PROFESSIONAL LOGO AND COMPANY INFORMATION

LICENSE STAMP

LAST NAME RESIDENCE
1357 STREET NAME
OWNER CONTACT INFORMATION

PLANTING DETAILS

REVISIONS

SUBMITTALS

DATE:
MM/DD/YY

SHEET NO.:
L8
8 OF 11

