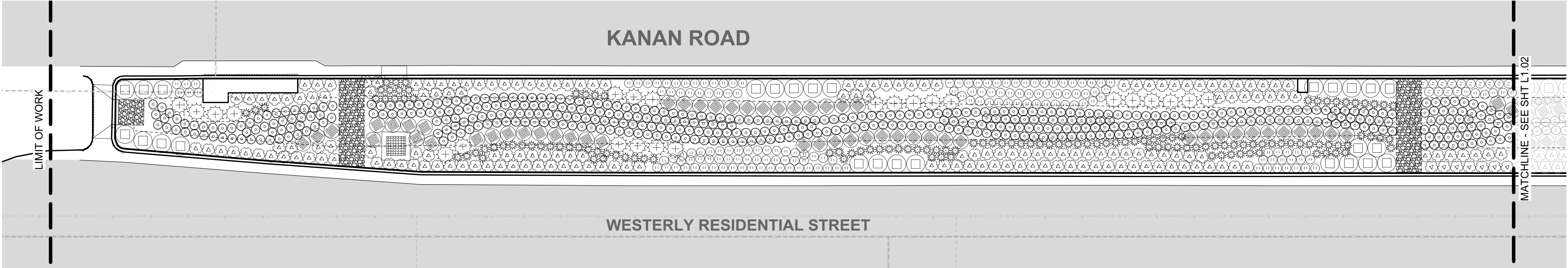


KANAN ROAD - EAST

PLAN VIEW "B"



- PLANTING NOTES:**
- SEE SPECIFICATIONS FOR PREPARATION OF PLANTING AREAS INCLUDING VEGETATIVE SUPPORT MATERIAL (VSM) AND FILTRATION MEDIA.
 - VILLA MOISTURE BARRIER 0.060 MIL MOISTURE BARRIERS OR APPROVED EQUAL SHALL BE INSTALLED AT PARKWAY PLANTERS. MOISTURE BARRIER IN PARKWAY PLANTERS SHALL BE A MINIMUM 36" DEPTH AND CONTINUOUS ALONG EDGE OF CURB 1" FROM EDGE OF PAVEMENT.
 - BACKFILL PER CY FOR CONTAINER PLANTS TO BE SIMILAR TO VSM WITH EXPANDED QUANTITIES OF ORGANIC COMPOST AND CLEAN TOPSOIL. MIX SHALL BE:
40% SAND
25% COMPOST
35% TOPSOIL
 - DO NOT RAISE OR LOWER GRADE WITHIN DRIPLINE OF EXISTING TREES TO REMAIN. NO ROTOTILLING WITHIN 5' OF EXISTING TREE TRUNKS.
 - CONTRACTOR TO SUBMIT PHOTO(S) OF ALL PLANT MATERIAL FOR COUNTY AND LANDSCAPE ARCHITECT APPROVAL 2 WEEKS PRIOR TO DELIVERY TO THE SITE. ALL PLANT MATERIAL SHALL BE SELECTED AT THE NURSERY BY THE COUNTY REPRESENTATIVE. UPON COMPLETION OF ESTABLISHMENT PERIOD, CONTRACTOR SHALL SUBMIT TURN-OVER SHEET ATTACHED TO SPECIFICATIONS TO THE COUNTY REPRESENTATIVE.



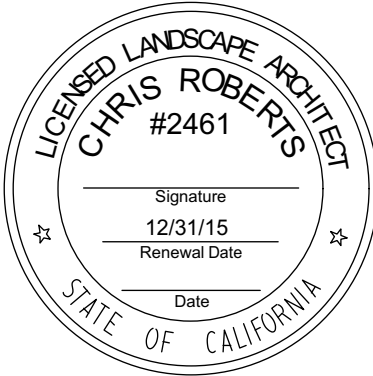
KANAN ROAD - WEST

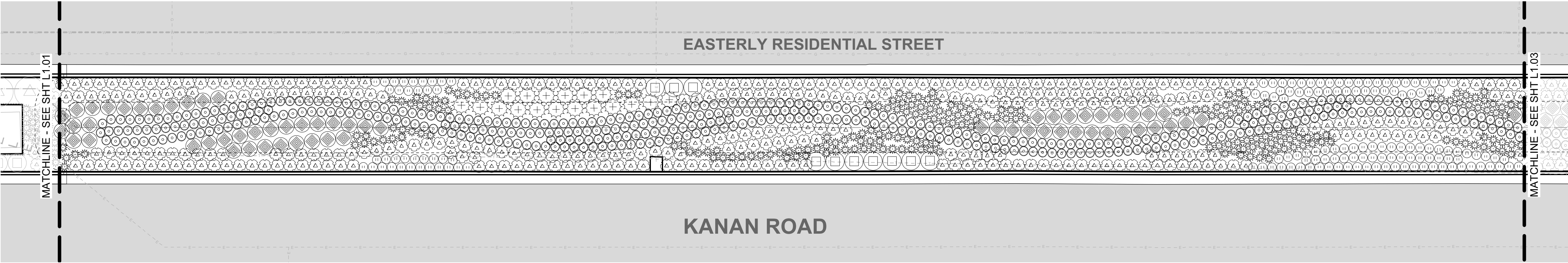
PLAN VIEW "A"



PLANT SCHEDULE

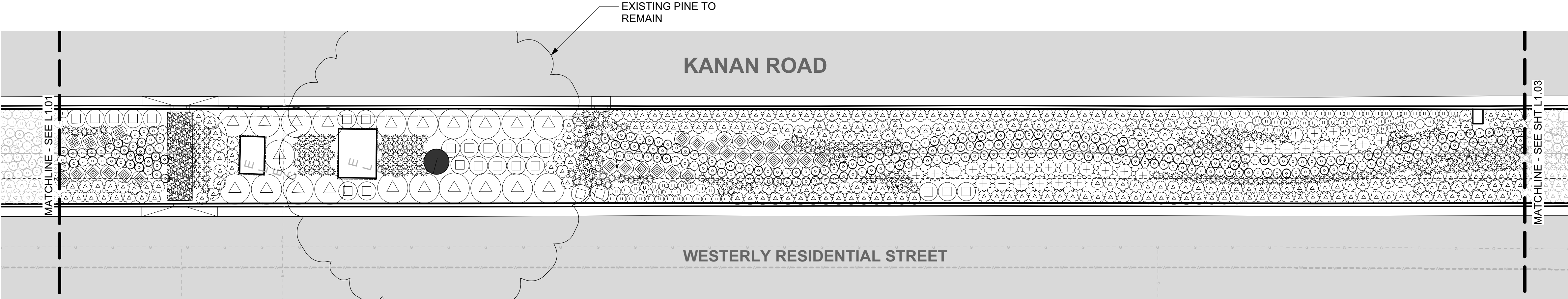
SYM	QTY	LATIN NAME	COMMON NAME	SIZE	SPACING	WUCOLS
	350	<i>Achillea millefolium</i>	Common Yarrow	PLUG 128	2' O.C.	LOW
	2	<i>Arctostaphylos 'John Dourley'</i>	John Dourley Manzanita	5 GAL	5' O.C.	LOW
	844	<i>Carex praegracilis</i>	California Field Sage	PLUG 72	18" O.C.	MOD
	38	<i>Deschampsia caespitosa</i>	Tufted Hair Grass	1 GAL	3' O.C.	MOD
	352	<i>Elymus triticoides</i>	Creeping Wild Rye	PLUG 72	18" O.C.	LOW
	308	<i>Erigeron glaucus 'Ron's Pink'</i>	Sea Breeze Fleabane	RP FLATS	18" O.C.	MOD
	92	<i>Iris douglasiana</i>	Douglas Iris	4" POT	2'6" O.C.	MOD
	58	<i>Muhlenbergia rigens</i>	Deer Grass	1 GAL	3' O.C.	MOD





KANAN ROAD - EAST

PLAN VIEW "A"



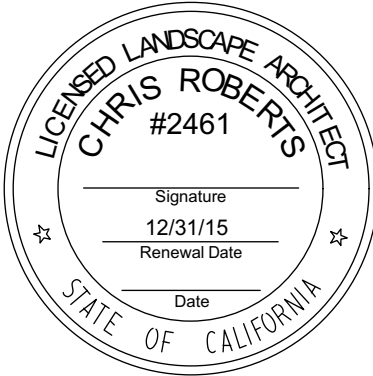
KANAN ROAD - WEST

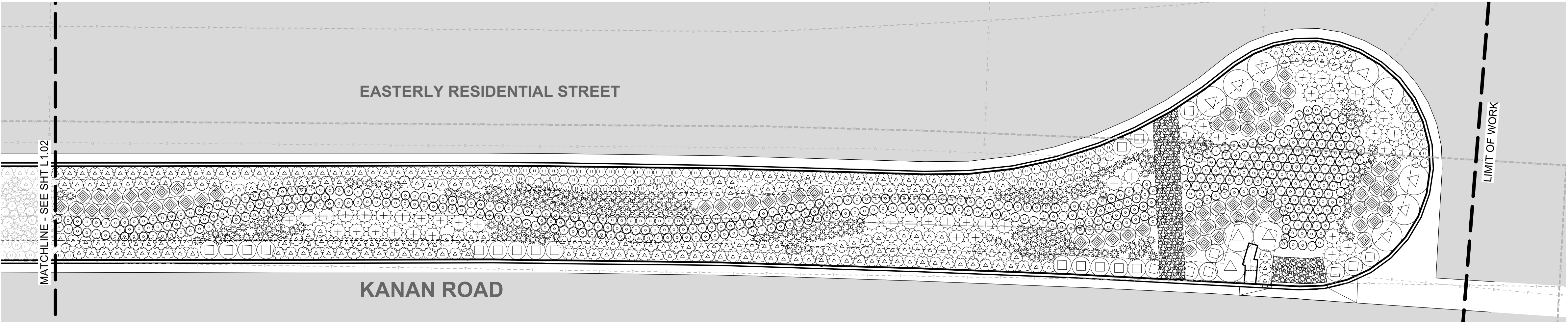
PLAN VIEW "B"



PLANT SCHEDULE

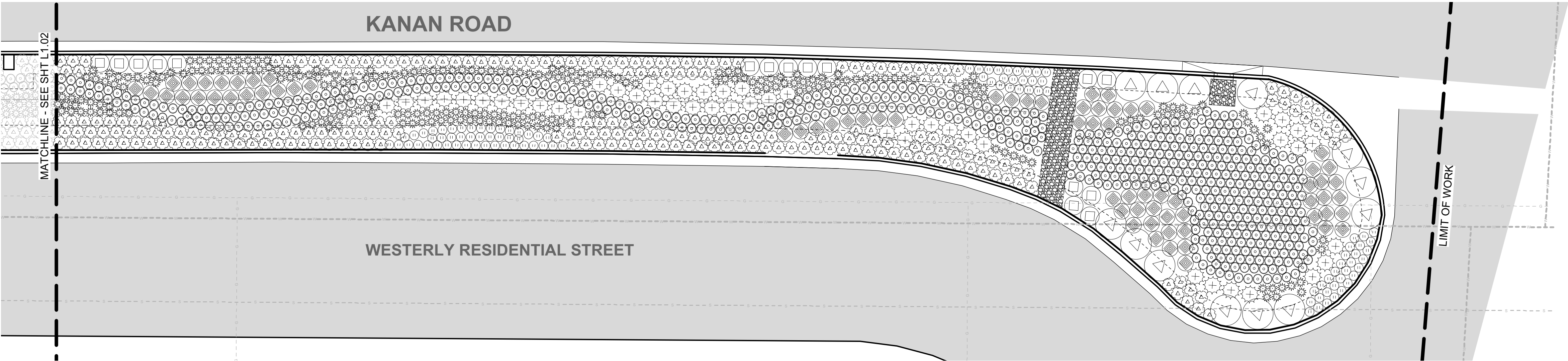
SYM	QTY	LATIN NAME	COMMON NAME	SIZE	SPACING	WUCOLS
	613	<i>Achillea millefolium</i>	Common Yarrow	PLUG 128	2' O.C.	LOW
	21	<i>Arctostaphylos 'John Dourley'</i>	John Dourley Manzanita	5 GAL	5' O.C.	LOW
	678	<i>Carex praegracilis</i>	California Field Sage	PLUG 72	18" O.C.	MOD
	48	<i>Deschampsia caespitosa</i>	Tufted Hair Grass	1 GAL	3' O.C.	MOD
	436	<i>Elymus triticoides</i>	Creeping Wild Rye	PLUG 72	18" O.C.	LOW
	246	<i>Erigeron glaucus 'Ron's Pink'</i>	Sea Breeze Fleabane	RP FLATS	18" O.C.	MOD
	93	<i>Iris douglasiana</i>	Douglas Iris	4" POT	2'6" O.C.	MOD
	35	<i>Muhlenbergia rigens</i>	Deer Grass	1 GAL	3' O.C.	MOD





KANAN ROAD - EAST

PLAN VIEW "A"



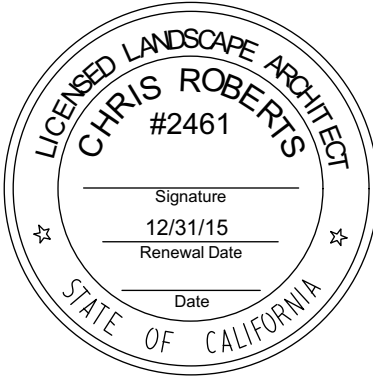
KANAN ROAD - WEST

PLAN VIEW "B"



PLANT SCHEDULE

SYM	QTY	LATIN NAME	COMMON NAME	SIZE	SPACING	WUCOLS
	506	<i>Achillea millefolium</i>	Common Yarrow	PLUG 128	2' O.C.	LOW
	24	<i>Arctostaphylos 'John Dourley'</i>	John Dourley Manzanita	5 GAL	5' O.C.	LOW
	1071	<i>Carex praegracilis</i>	California Field Sage	PLUG 72	18" O.C.	MOD
	95	<i>Deschampsia caespitosa</i>	Tufted Hair Grass	1 GAL	3' O.C.	MOD
	459	<i>Elymus triticoides</i>	Creeping Wild Rye	PLUG 72	18" O.C.	LOW
	209	<i>Erigeron glaucus 'Ron's Pink'</i>	Sea Breeze Fleabane	RP FLATS	18" O.C.	MOD
	147	<i>Iris douglasiana</i>	Douglas Iris	4" POT	2'6" O.C.	MOD
	40	<i>Muhlenbergia rigens</i>	Deer Grass	1 GAL	3' O.C.	MOD

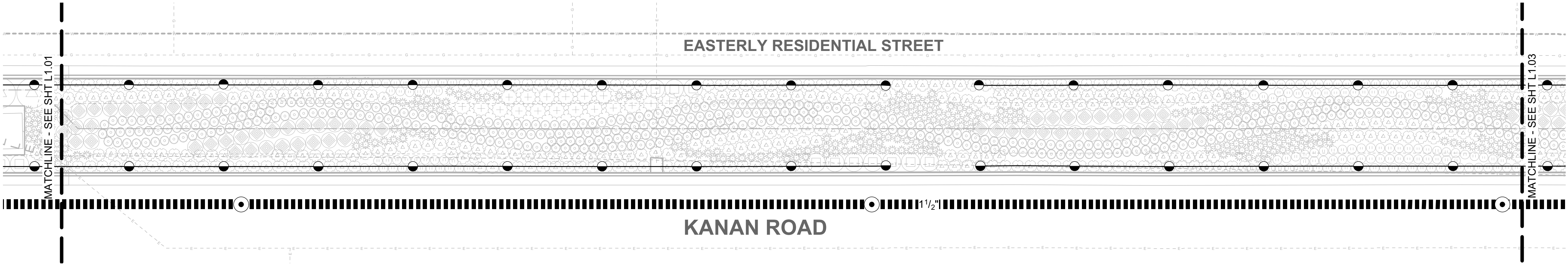




IRRIGATION SCHEDULE (CONTRACTOR TO INSTALL MANUFACTURER LISTED EQUIPMENT OR APPROVED EQUAL)							
SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	GPM	RADIUS	PSI	DETAIL / SHEET #
	ROTATOR ON POP-UP	HUNTER OR APPROVED EQUAL	PROS-12-PRS40-CV-MP1000 90-210	.19 - .43	8' - 15'	40	A / L3.1
	ROTATOR ON POP-UP	HUNTER OR APPROVED EQUAL	PROS-12-PRS40-CV-MP2000 90-210	.40 - .86	13' - 21'	40	A / L3.1
	ROTATOR ON POP-UP	HUNTER OR APPROVED EQUAL	PROS-12-PRS40-CV-MP2000 360	1.47	13' - 21'	40	A / L3.1
	POP-UP SPRAY BODY (NON-POTABLE)	RAINBIRD OR APPROVED EQUAL	RD-1812-P45-NP				A / L3.1
	GATE VALVE	NIBCO OR APPROVED EQUAL	T-113-K (LINE SIZE)				C / L3.1
	REMOTE CONTROL VALVE	RAINBIRD OR APPROVED EQUAL	100-EFB-CP (INSTALL INCLUDED PURPLE HANDLE COVER)				B / L3.1
	QUICK COUPLER	RAINBIRD OR APPROVED EQUAL	33-DNP				F / L3.1
	PULL BOX	NA	SEE SPECIFICATIONS				E / L3.1
	MAIN LINE	WESTERN LASCO OR APPROVED EQUAL	SCHEDULE 40 PVC, PURPLE-ALL MAINLINE 1 1/2" UNLESS NOTED				D / L3.1
	LATERAL LINE	WESTERN LASCO OR APPROVED EQUAL	SCHEDULE 40 PVC, PURPLE - SIZE PER PLAN				D / L3.1

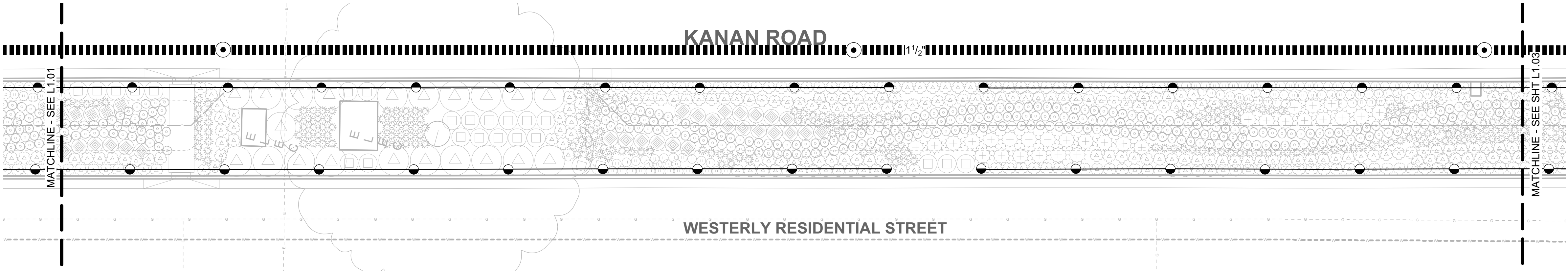
- ### **IRRIGATION NOTES:**
1. STATIC WATER PRESSURE IS XX PSI AT P.O.C. 'A'. THE WATER PURVEYOR IS CALLEGUAS MUNICIPAL WATER DISTRICT. FOR PROJECT INFORMATION, CONTACT: _____.
 2. IRRIGATION DRAWINGS ARE DIAGRAMMATIC. LOCATE NEW PIPELINES, VALVES AND EQUIPMENT IN PLANTING AREAS WHEREVER POSSIBLE.
 3. ALL RECYCLED WATER PIPING SHALL USE PURPLE COLORED AND STENCILED PIPE, PURPLE RECYCLED WATER WARNING TAPE CONTINUOUSLY APPLIED TO THE PIPE, OR MARKED PLASTIC ENCASEMENT. ALL MARKING SHALL INCLUDE THE FOLLOWING OR SIMILAR WORDS: "CAUTION: RECYCLED WATER-DO NOT DRINK".
 4. WARNING TAPE OR PIPE ENCASEMENT INSTALLED SHALL BE AS MANUFACTURED BY T. CHRISTY ENTERPRISES, RENCOR OR EQUAL.
 5. INSTALL VALVES, METERS AND APPURTENANCES IN PURPLE COLORED VALVE BOXES WITH PURPLE LIDS. THE VALVE BOX LID SHALL HAVE THE FOLLOWING WARNINGS MOLDED OR HOT-STAMPED UPON IT: "RECYCLED WATER", OR USE WARNING LABEL BY T. CHRISTY ENTERPRISES 3800 OR EQUAL.
 6. ALL POP-UP SPRINKLER HEADS SHALL HAVE AN EXPOSED SURFACE COLORED PURPLE TO ASSOCIATE THEM WITH RECYCLED WATER USE. THE EXPOSED SURFACE MAY BE COLORED PURPLE THROUGH THE USE OF: (1) DYED PLASTIC OR RUBBER, OR (2) WEATHERPROOF PAINT.
 7. INSTALL WARNING TAGS AS MANUFACTURED BY T. CHRISTY ENTERPRISES 3150 OR EQUIVALENT TO ALL SUCH CONTROL VALVES, GATE VALVES, QUICK COUPLER VALVES, CONTROLLERS, METERS, ETC. TAGS SHALL BE WEATHERPROOF PLASTIC, 3-INCH BY 4-INCH, PURPLE IN COLOR WITH THE WORDS "WARNING: RECYCLED WATER-DO NOT DRINK" IMPRINTED ON ONE SIDE AND "AVISO: AGUA IMPURA-NO TOMAR" ON THE OTHER SIDE, OR SIMILAR AS APPROVED BY THE DISTRICT ENGINEER. IMPRINTING SHALL BE PERMANENT AND BLACK IN COLOR.
 8. EXISTING MAINLINE UNDER STREET PAVING, IF IT IS SIZED PER PLAN AND PASSES PRESSURE TESTING, NEED NOT BE REPLACED HOWEVER, TAGS SHALL BE PLACED AT EACH END OF THE PIPE WITH THE FOLLOWING INSCRIPTION: "THIS PIPE, ALTHOUGH NOT COLORED PURPLE, IS PART OF A RECYCLED WATER IRRIGATION SYSTEM. ALL WHITE PVC PIPE IS HIDDEN UNDER PAVED SURFACES AND COMPLETELY OUT OF PUBLIC VIEW".
 9. REPORT STATIC MAINLINE PRESSURE TO LANDSCAPE ARCHITECT OF RECORD AND COUNTY REPRESENTATIVE PRIOR TO STARTING CONSTRUCTION.
 10. PVC SHALL BE LAID WITH CONNECTIONS HORIZONTAL, NOT VERTICAL.
 11. SCHEDULE 40 OR ABOVE ONLY ON PVC. NO CLASS 200.
 12. PIPE SIZES ARE 3/4" UNLESS OTHERWISE LABELED. CHANGES IN PIPE SIZING LOCATED AT FARTHEST DOWNSTREAM PIPE SEGMENT PER SIZE.
 13. PRESSURE TEST ON ALL MAINLINES 4 HOURS AT 150 PSI. CALL INSPECTOR 24 HOURS PRIOR TO TEST.
 14. PROVIDE UNIQUELY COLORED TRACE WIRE TAPED TO BOTTOM OF MAINLINE. TRACE WIRE TO BE CAPPED IN MASTER VALVE BOX AND AT END OF MAINLINE IN LAST VALVE BOX.
 15. PROVIDE ONE ADDITIONAL VALVE WIRE EXTENDED TO THE END OF EACH MAINLINE RUN.
 16. CONTRACTOR TO PULL NEW CONTROL WIRES IN EASTERN PARKWAY FROM EXISTING CONTROLLER AND EXTEND TO NEW VALVE AND END OF LINE AS SHOWN. IN WESTERN PARKWAY, CONTRACTOR TO USE EXISTING WIRES IN SLEEVE UNDER KANAN ROAD AND SPLICE NEW WIRES IN PULL BOX AND EXTEND TO NEW VALVE AND END OF LINE AS SHOWN.
 17. WATER LINE SLEEVES SHALL ALLOW FOR IRRIGATION PIPES AND COUPLERS TO EASILY SLIDE THROUGH SLEEVING. EXTEND NEW SLEEVE 18" BEYOND EDGES OF PAVING.
 18. ALL STATION VALVES AND VALVE BOXES SHALL BE APPROVED FOR RECYCLED WATER.
 19. THE CONTRACTOR SHALL ALLOW FOR MINOR RELOCATION OF POP-UP SPRINKLER HEADS AT NO CHARGE TO THE CITY.
 20. NO IRRIGATION LINES SHALL BE PLACED UNDER ROOTBALLS OF EXISTING OR PROPOSED PLANTS. TRENCING WITHIN 6 FEET OF EXISTING TREE TRUNKS SHALL BE BY HAND. ROOTS 2" OR LARGER SHALL BE CUT ACCORDING TO ISA STANDARDS IF THEIR REMOVAL IS NECESSARY TO INSTALL PIPES OR ROOT BARRIERS AT THE DIRECTION OF COUNTY REPRESENTATIVE.
 21. EXISTING MAINLINE WITHIN PLANTING AREAS MUST BE CUT AND DISPOSED OF.
 22. THE IRRIGATION SYSTEM SHALL BE FULLY OPERATIONAL BY THE BEGINNING OF THE PLANTING ESTABLISHMENT PERIOD.

PRELIMINARY



KANAN ROAD - EAST

PLAN VIEW "A"



KANAN ROAD - WEST

PLAN VIEW "B"

LATERAL PIPE SIZING

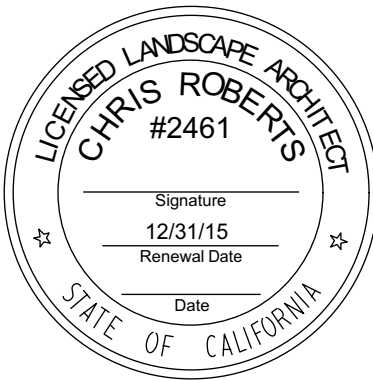
GPM	SIZE
1-8	3/4"
8-12	1"
12-22	1 1/4"
22-30	1 1/2"
30+	2"

EXISTING IRRIGATION EQUIPMENT TO REMAIN

SYMBOL	DESCRIPTION
	BACKFLOW PREVENTER AND ENCLOSURE
	ELECTRIC METER
	WATER METER
	CONTROLLER
	MAINLINE AND SLEEVE

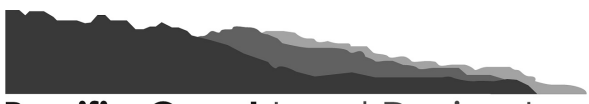
IRRIGATION SCHEDULE (CONTRACTOR TO INSTALL MANUFACTURER LISTED EQUIPMENT OR APPROVED EQUAL)

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	GPM	RADIUS	PSI	DETAIL / SHEET #
	ROTATOR ON POP-UP	HUNTER OR APPROVED EQUAL	PROS-12-PRS40-CV-MP1000 90-210	.19 - .43	8' - 15'	40	A / L3.1
	ROTATOR ON POP-UP	HUNTER OR APPROVED EQUAL	PROS-12-PRS40-CV-MP2000 90-210	.40 - .86	13' - 21'	40	A / L3.1
	ROTATOR ON POP-UP	HUNTER OR APPROVED EQUAL	PROS-12-PRS40-CV-MP2000 360	1.47	13' - 21'	40	A / L3.1
	POP-UP SPRAY BODY (NON-POTABLE)	RAINBIRD OR APPROVED EQUAL	RD-1812-P45-NP				A / L3.1
	GATE VALVE	NIBCO OR APPROVED EQUAL	T-113-K (LINE SIZE)				C / L3.1
	REMOTE CONTROL VALVE	RAINBIRD OR APPROVED EQUAL	100-EFB-CP (INSTALL INCLUDED PURPLE HANDLE COVER)				B / L3.1
	QUICK COUPLER	RAINBIRD OR APPROVED EQUAL	33-DNP				F / L3.1
	PULL BOX	NA	SEE SPECIFICATIONS				E / L3.1
	MAIN LINE	WESTERN LASCO OR APPROVED EQUAL	SCHEDULE 40 PVC, PURPLE-ALL MAINLINE 1 1/2" UNLESS NOTED				D / L3.1
	LATERAL LINE	WESTERN LASCO OR APPROVED EQUAL	SCHEDULE 40 PVC, PURPLE - SIZE PER PLAN				D / L3.1



SAVE DATE: 12/17/14 BERG

D			
C			
B			
A			
△	REVISION	DESCRIPTION	APP. DATE



Pacific Coast Land Design, Inc.
Landscape Architecture • Urban Design • Environmental Planning
3639 Harbor Blvd., Suite #107, Ventura, CA 93001
Phone: (805) 644-9697 Fax: (805) 644-9742

CHRIS ROBERTS
LANDSCAPE ARCHITECT
RENEWAL DATE: 12/31/15
LIC.# 2461

423 12/17/2014
PCLD JOB# PLAN DATE

EB, MZ DESIGNED
EB DRAWN
MZ CHECKED

PROJECT MANAGER	DATE
DEPUTY DIRECTOR	DATE
DISTRICT DIRECTOR	DATE

COUNTY OF VENTURA
PUBLIC WORKS AGENCY
WATERSHED PROTECTION DISTRICT

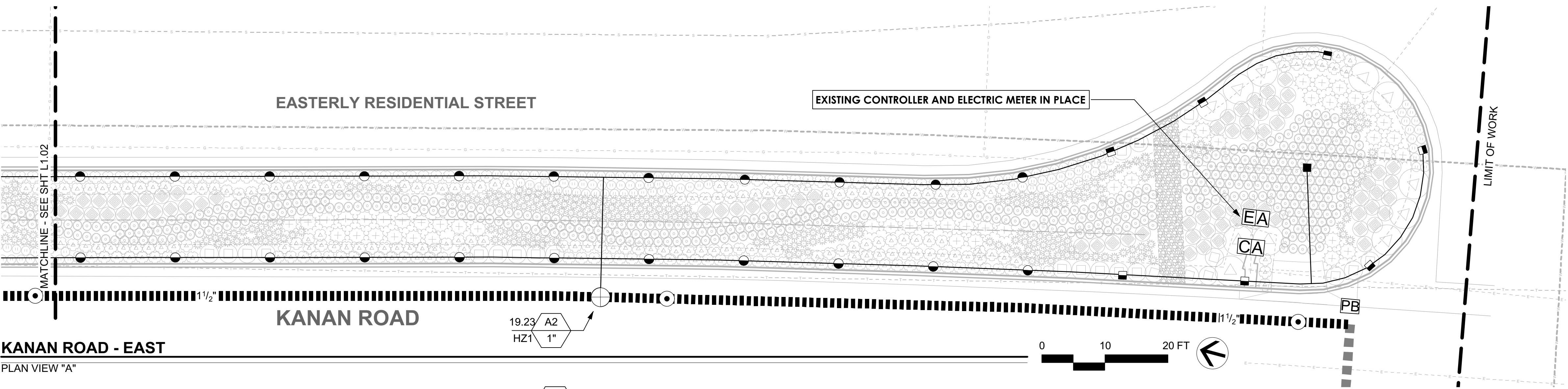
SPEC. NO. WPXX-XX
PROJ. NO. 40540

OAK PARK GREEN STREETS URBAN RETROFIT

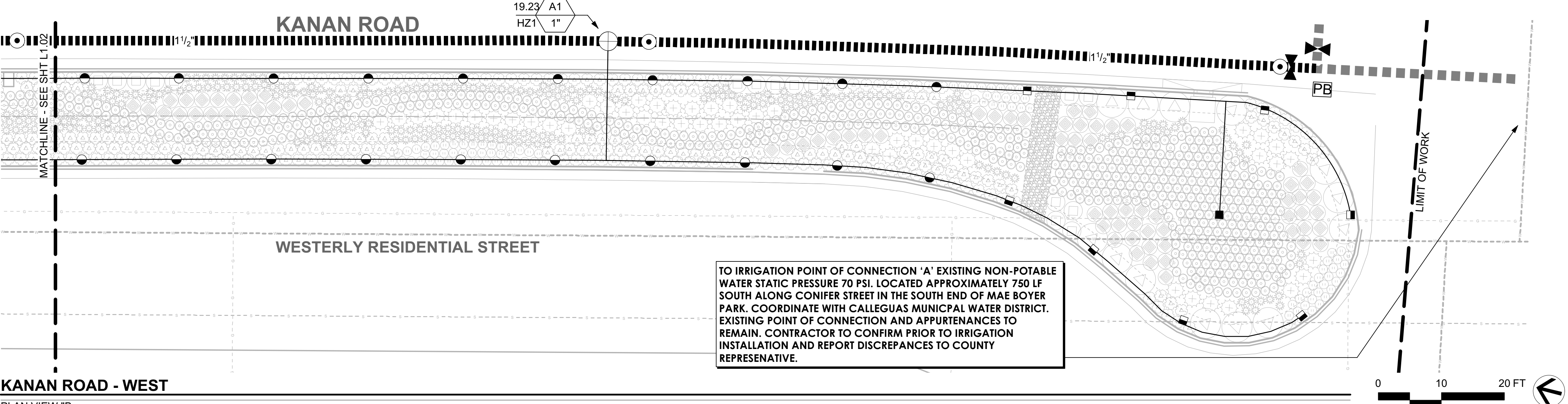
IRRIGATION PLAN

SHEET 16
OF 19
DRAWING NO. X-X-XXXX

PRELIMINARY



KANAN ROAD - EAST
PLAN VIEW "A"

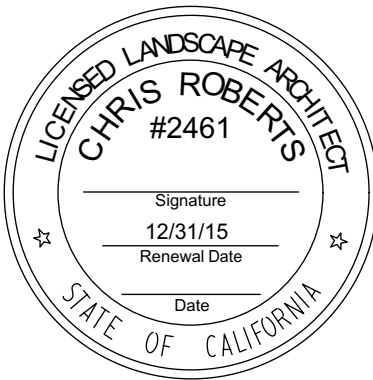


KANAN ROAD - WEST
PLAN VIEW "B"

LATERAL PIPE SIZING	
GPM	SIZE
1-8	3/4"
8-12	1"
12-22	1 1/4"
22-30	1 1/2"
30+	2"

EXISTING IRRIGATION EQUIPMENT TO REMAIN	
SYMBOL	DESCRIPTION
	BACKFLOW PREVENTER AND ENCLOSURE
	ELECTRIC METER
	WATER METER
	CONTROLLER
	MAINLINE AND SLEEVE

IRRIGATION SCHEDULE (CONTRACTOR TO INSTALL MANUFACTURER LISTED EQUIPMENT OR APPROVED EQUAL)								
SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	GPM	RADIUS	PSI	DETAIL / SHEET #	
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	ROTATOR ON POP-UP	HUNTER OR APPROVED EQUAL	PROS-12-PRS40-CV-MP2000 360	1.47	13' - 21'	40	A / L3.1	
	POP-UP SPRAY BODY (NON-POTABLE)	RAINBIRD OR APPROVED EQUAL	RD-1812-P45-NP				A / L3.1	
	GATE VALVE	NIBCO OR APPROVED EQUAL	T-113-K (LINE SIZE)				C / L3.1	
	REMOTE CONTROL VALVE	RAINBIRD OR APPROVED EQUAL	100-EFB-CP (INSTALL INCLUDED PURPLE HANDLE COVER)				B / L3.1	
	QUICK COUPLER	RAINBIRD OR APPROVED EQUAL	33-DNP				F / L3.1	
	PULL BOX	NA	SEE SPECIFICATIONS				E / L3.1	
	MAIN LINE	WESTERN LASCO OR APPROVED EQUAL	SCHEDULE 40 PVC, PURPLE-ALL MAINLINE 1 1/2" UNLESS NOTED				D / L3.1	
	LATERAL LINE	WESTERN LASCO OR APPROVED EQUAL	SCHEDULE 40 PVC, PURPLE - SIZE PER PLAN				D / L3.1	



ATTACHMENT A
WATER EFFICIENT WORK SHEET

PROJECT NAME: Oak Park Green Streets
PROJECT LOCATION: Oak Park, CA
TOTAL LANDSCAPE AREA: 21,136 sf

Maxium Applied Water Allowance (MAWA)

MAWA = (ETo) (0.62) [(0.7 x LA) + (0.3 x SLA)]

MAWA= Maximum Applied Water Allowance
ETo = Reference Evapotranspiration (inches per year)
0.62 = Conversion factor (to gallons per square foot)
0.7 = ET Adjustment Factor (ETAF)
LA = Landscaped Area including SLA (sq ft)
0.3 = Additional ET Adjustment Factor for Special Landscape Area (1.0 - 0.7 = 0.3)
SLA - Portion of Landscape Area identified as Special Landscape Area - see Definitions (square feet)

Applicant to fill in boxes below.

51.0	ETo (reference Evapotranspiration from Appendix A (inches per year)
21,136	Landscape Area including Special Landscape Area/SLA (square feet)
0	Portion of Landscape Area identified as Special Landscape Area (square feet)

ETo

ETAF

AREA (s.f.)

Conversion

MAWA

MAWA for LA

51.0

x

0.7

x

21,136

x

0.62

=

467,826

MAWA for SLA*

0

x

0.3

x

0

x

0.62

=

0

Total MAWA

467,826

(gallons per year)

Estimated Total Water Use (ETWU)

ETWU = (ETo) (0.62) [(PF x HA) / IE + SLA)]

ETWU = Estimated Total Water Use
ETo = Reference Evapotranspiration (inches per year)
0.62 = Conversion factor (to gallons per square foot)
PF = Plant Factor from WUCOLS (see Definitions)
HA = Hydrozone Area - planting area separated to high, moderate, low and very low water usea areas (square feet)
IE = Irrigation Efficiency - see Chart ** (minimum 0.71)
SLA - Portion of Landsape Area identified as Special Landscape Area - see Definitions (square feet)

ETWU arrived from Hydrozone Table below = 356,439 gallons per year

HYDROZONE TABLE							
hydrozone	plant water use type	plant factor (PF) (see table B)	hydrozone area (HA) (sq. feet)	PFxHA (sq. ft.)	% of landscape area (LA)	irrigation efficiency (IE)	Hydrozone ETWU
1 (shrubs)	mod	0.4	21,136	8,454	100.00 %	0.75	356,439
Subtotal ETWU							356,439
TOTAL			21,136	100%	356,439		

Table A - PF (Plant Factor)		
Cool Season Turf*	0.8	
Warm Season Turf**	0.6	
High Water Using Plants	0.8	can be between 0.7 - 0.9
Moderate Water Using Plants	0.5	can be between 0.4 - 0.6
Low Water Using Plants	0.2	can be between 0.1 - 0.3
Very Low water Using Plants	0.1	below 0.1

* species include tall fescue, ryegrass, bentgrass and kentucky bluegrass
** species include bermudagrass, zoysiagrass, st. augustinegrass

Table B - IE (Irrigation Efficiency)	
Pop-up spray heads	0.71
Rotor heads	0.75
Microspray	0.75
Bubblers	0.80
Drip emitters	0.85
Subsurface irrigation	0.90

note: adjustment can be made based on exact type of equipment

"I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE (AB 1881) AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN"

LANDSCAPE ARCHITECT DATE

ATTACHMENT B.1
IRRIGATION SCHEDULE (Peak Summer Schedule)

ETo: Thousand Oaks, CA													
jan.	feb.	mar.	april	may	june	july	aug.	sept.	oct.	nov.	dec.	annual	
2.2	2.6	3.4	4.5	5.4	5.9	6.7	6.4	5.4	3.9	2.6	2.0	51.0	

IRRIGATION SCHEDULE FOR SUMMER (JULY):

valve no.	valve size	flow (GPM)	irr. effcy. (IE)	irr. type	area (sq.ft.)	plant type	precip rate (PR) (in/hr.)	plant factor (PF)	daily runtime (min.)	# of cycles per day	individ. runtimes (min.)	freq. per month	monthly runtime (min.)	total ETWU Gallons
A1	1"	19.23	0.75	rotator	5,338	shrub	0.35	0.4	34	1	34	18	618	11,826
A2	1"	19.23	0.75	rotator	5,450	shrub	0.34	0.4	35	1	35	18	631	12,075
A3	1"	18.14	0.75	rotator	5,160	shrub	0.34	0.4	35	1	35	18	634	11,433
A4	1"	18.14	0.75	rotator	5,187	shrub	0.34	0.4	35	1	35	18	637	11,492
Total Runtime per day: P.O.C. 'A'										2.3 hours				
Total Project Runtime per day										2.3 hours				Total July ETWU 46,826

ATTACHMENT B.2
IRRIGATION SCHEDULE (Typical Monthly Schedule)

ETo: Thousand Oaks, CA													
jan.	feb.	mar.	april	may	june	july	aug.	sept.	oct.	nov.	dec.	annual	
2.2	2.6	3.4	4.5	5.4	5.9	6.7	6.4	5.4	3.9	2.6	2.0	51.0	

IRRIGATION SCHEDULE FOR SUMMER (MARCH):

valve no.	valve size	flow (GPM)	irr. effcy. (IE)	irr. type	area (sq.ft.)	plant type	precip rate (PR) (in/hr.)	plant factor (PF)	daily runtime (min.)	# of cycles per day	individ. runtimes (min.)	freq. per month	monthly runtime (min.)	total ETWU Gallons
A1	1"	19.23	0.75	rotator	5,338	shrub	0.35	0.4	26	1	26	12	314	6,001
A2	1"	19.23	0.75	rotator	5,450	shrub	0.34	0.4	27	1	27	12	320	6,128
A3	1"	18.14	0.75	rotator	5,160	shrub	0.34	0.4	27	1	27	12	322	5,802
A4	1"	18.14	0.75	rotator	5,187	shrub	0.34	0.4	27	1	27	12	323	5,832
Total Runtime per day: P.O.C. 'A'										1.8 hours				
Total Project Runtime per day										1.8 hours				Total March ETWU 23,763

Estimated Total Water Use (ETWU)

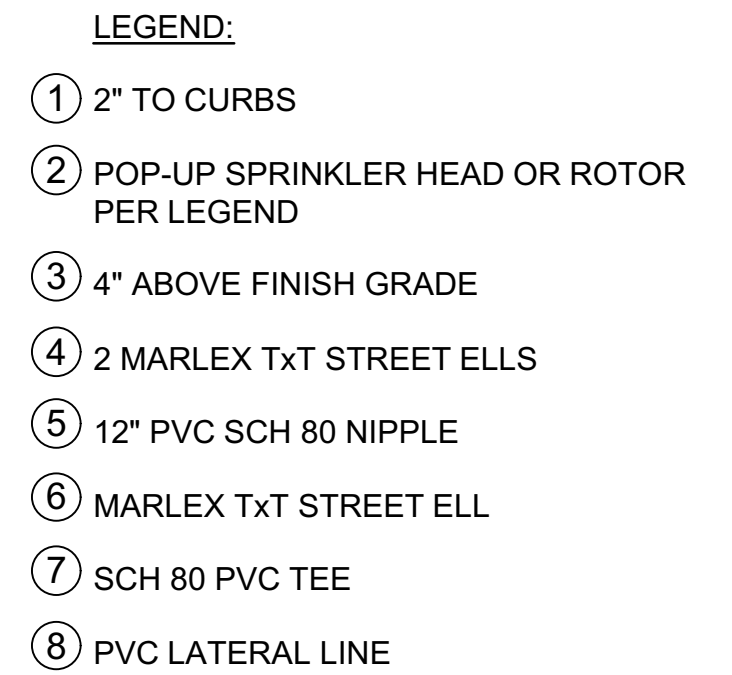
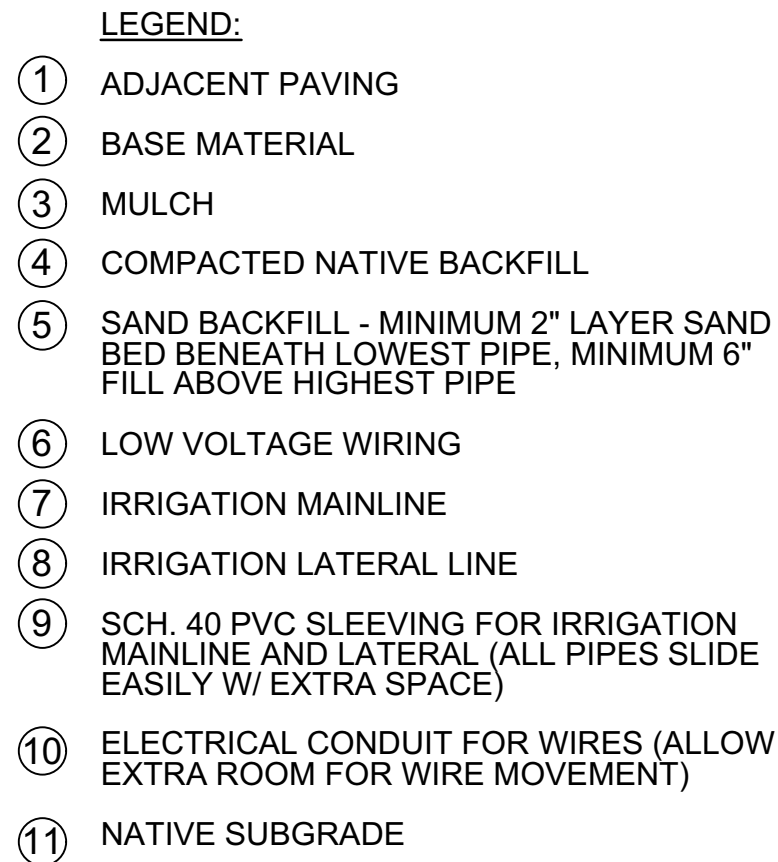
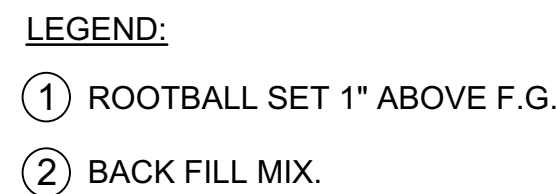
ETWU = (ETo) (0.62) [(PF x HA) / IE + SLA)]

ETWU = Estimated Total Water Use
ETo = Reference Evapotranspiration (inches per year)
0.62 = Conversion factor (to gallons per square foot)
PF = Plant Factor from WUCOLS (see Definitions)
HA = Hydrozone Area - planting area separated to high, moderate, low and very low water usea areas (square feet)
IE = Irrigation Efficiency - see Chart ** (minimum 0.71)
SLA - Portion of Landsape Area identified as Special Landscape Area - see Definitions (square feet)

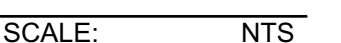
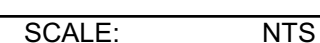
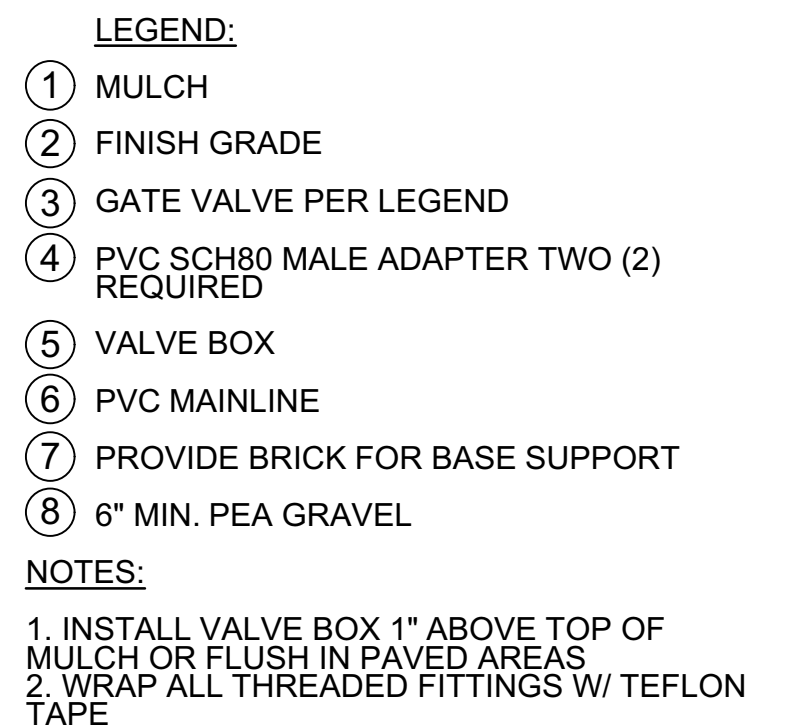
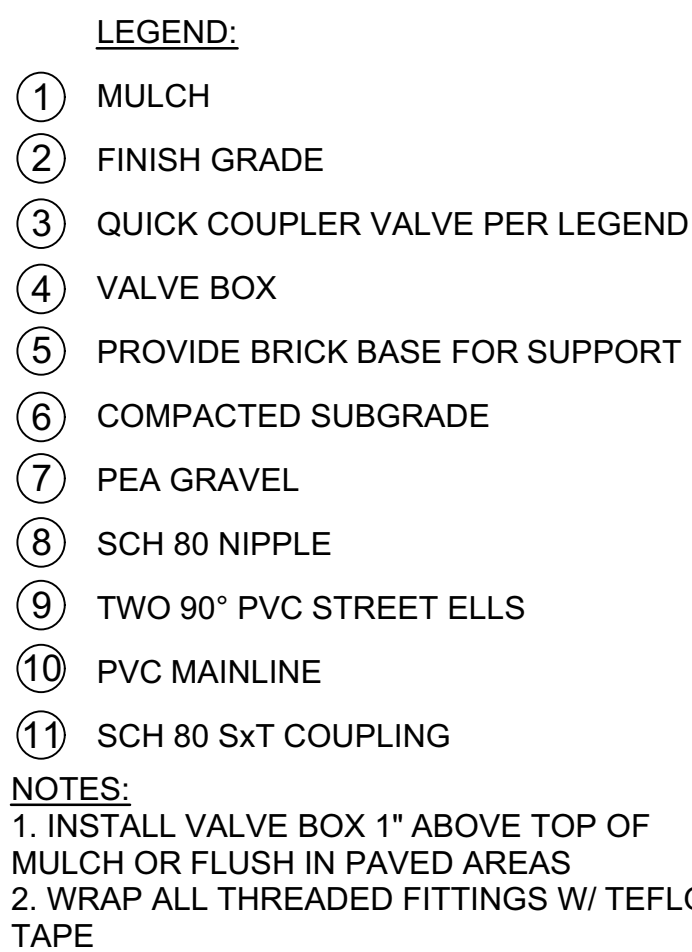
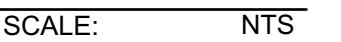
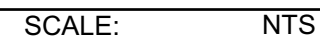
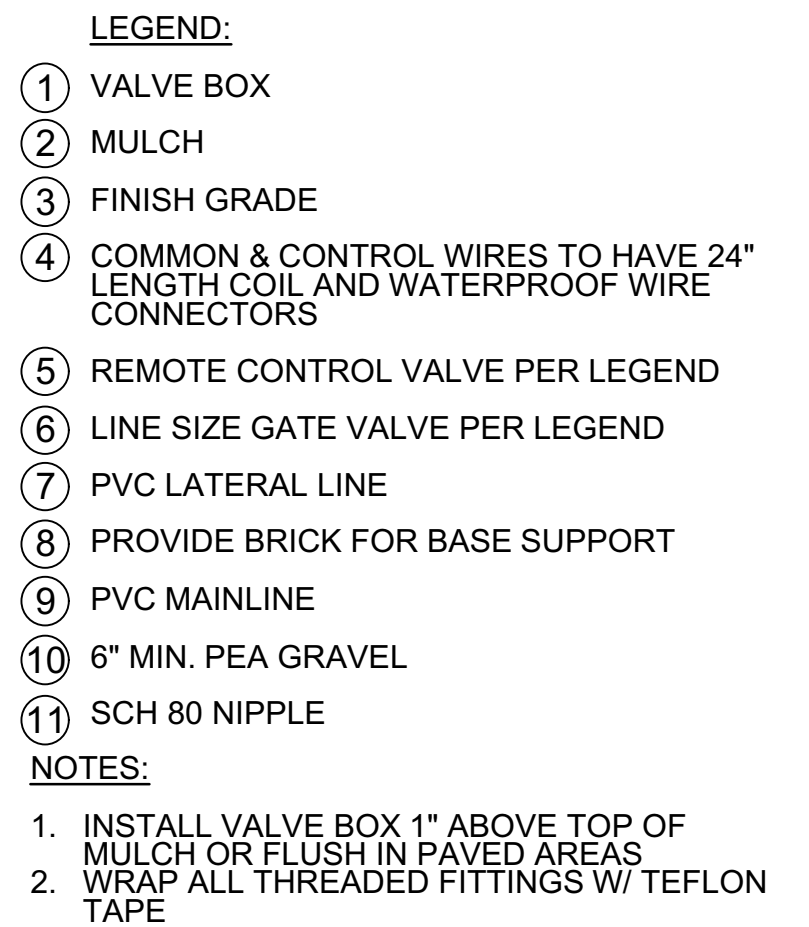
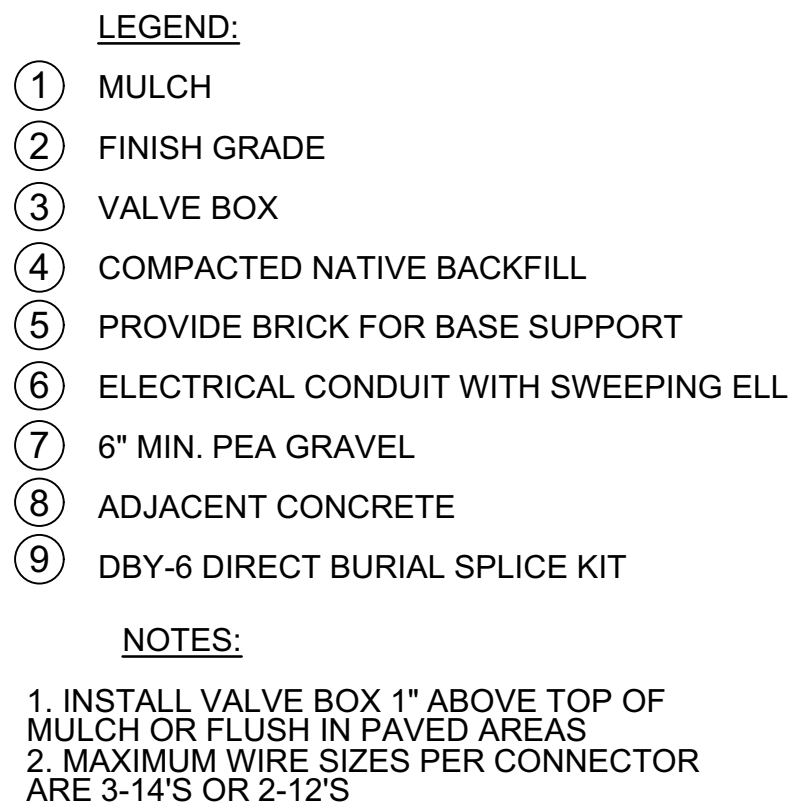
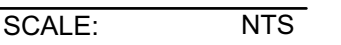
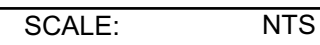
PRESSURE LOSS CALCULATION (WORST CASE)

P.O.C. 'A' - NON-POTABLE WATER		STATIC PRESSURE:	85 PSI	GPM:	18.14
STATION: A4					
	DESCRIPTION				PSI
P.O.C.	2" WATER METER				0.80
	1" REDUCED PRESSURE BACKFLOW				12.00
	FITTINGS LOSSES (EST.)				2.00
	TOTAL				14.80
MAINLINE	1" MASTER VALVE				2.80
	1" FLOW METER				1.00
	MAINLINE (714 LF x 1 1/2", 1,060 LF x 2")				12.84
	MAINLINE FITTINGS (@ 10%)				1.28
	MAINLINE LOSS TOTAL				17.92
LATERAL	1" CONTROL VALVE				0.80
	LATERAL LINE (128 LF, SIZES PER PLAN)				1.51
	LATERAL FITTINGS (@ 23%)				0.35
	LATERAL LOSS TOTAL				2.66
	COMPONENT LOSS TOTAL (P.O.C.+MAINLINE+LATERAL LINE)				35.38
REQUIRED	REQUIRED AT HEAD				30.00
	COMPONENT LOSSES PLUS HEAD LOSS				65.38
	10% SAFTEY FACTOR				6.54
	TOTAL PRESSURE REQUIRED				71.92
RESIDUAL	STATIC PRESSURE				85.00
	PRESSURE LOSS/GAIN FROM ELEVATION CHANGE (+/- 0.433 PSI/FT)				-12.55
	TOTAL AVAILABLE PRESSURE				72.45
	RESIDUAL PRESSURE (TOTAL AVAILABLE - TOTAL REQUIRED)				0.53
TOTAL PRESSURE ABOVE THE MINIMUM REQUIRED PRESSURE REGULATOR NEEDED					

PRELIMINARY



SCALE: NTS



COUNTY OF VENTURA
PUBLIC WORKS AGENCY
WATERSHED PROTECTION DISTRICT

LANDSCAPE DETAILS

F 19

X-X-XXXX



EB, MZ
DESIGNED
EB
DRAWN
MZ
CHECKED

EB, MZ
DESIGNED
EB
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CHECKED

PROJECT MANAGER	DATE
DEPUTY DIRECTOR	DATE
DISTRICT DIRECTOR	DATE

SAVE DATE: 12/17/14 BERG

D			
C			
B			
A			
△	REVISION	DESCRIPTION	APP. DATE

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 Phone: (805) 644-9697 Fax: (805) 644-9742

EB, MZ	
DESIGNED	PROJECT MANAGER DATE
EB	
DRAWN	DEPUTY DIRECTOR DATE
MZ	
CHECKED	DISTRICT DIRECTOR DATE

SPEC. NO.	WPXX-XX
PROJ. NO.	40540

SHEET 19
OF 19
DRAWING NO.
X-X-XXXX