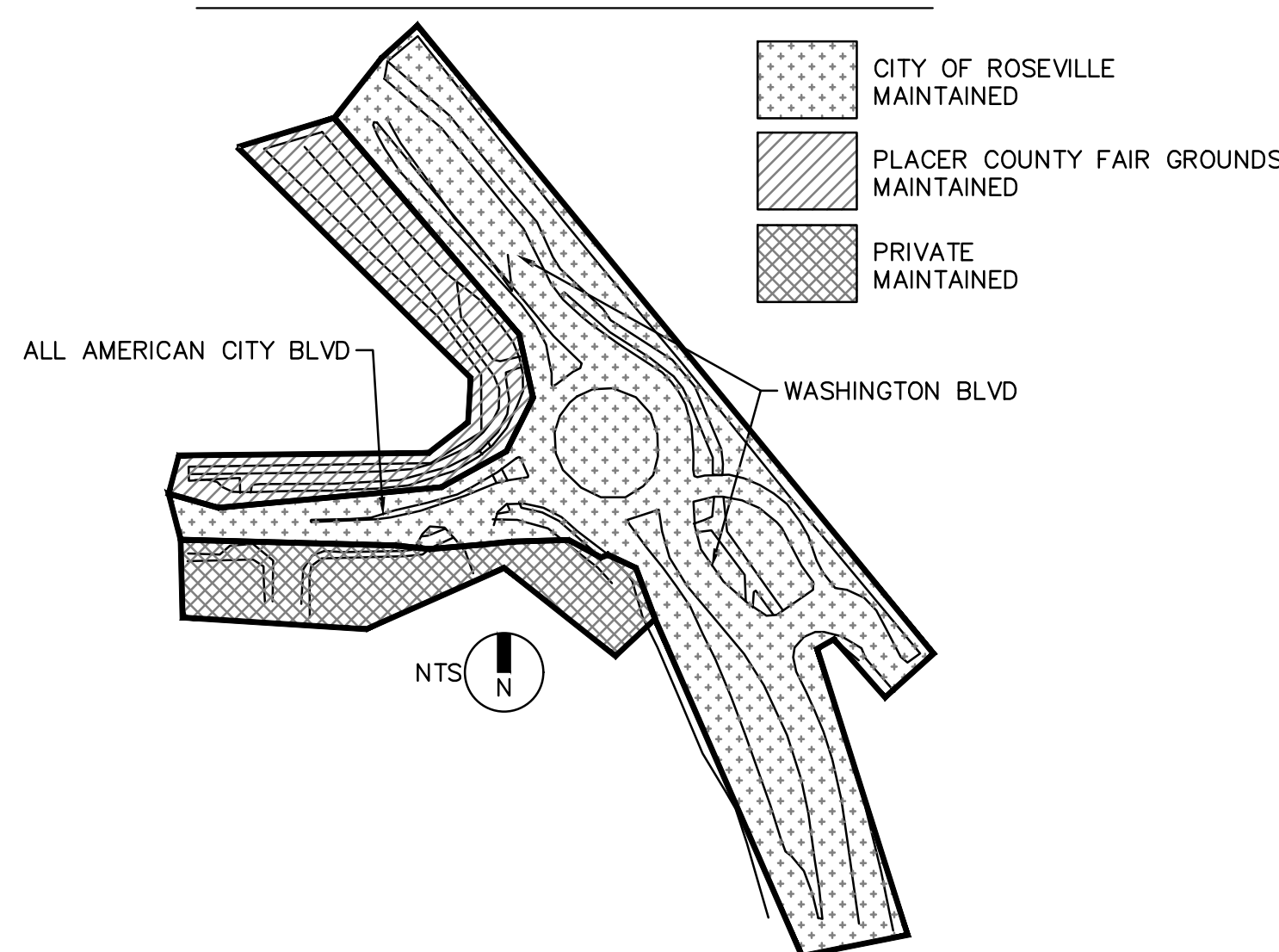


K:\SAC-TPTD\ROSEVILLE\WASHINGTON @ ALL AMERICA RAB - 097918026\08 CADD\PLANSHEETS\LS-01 LANDSCAPE PLANS.DWG  
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**PLANT SCHEDULE**

TREES	QTY	BOTANICAL / COMMON NAME	CONT	HEIGHT/SPREAD	CAL.	WUCOLS
	8	ARBUS X 'MARINA' / MARINA STRAWBERRY TREE STANDARD TRUNK	24" BOX	6-7' HT. X 3-4' SPR.	1" CAL.	LOW
	30	EXISTING TREE / TO REMAIN PROTECT IN PLACE - SEE DETAIL '6' SHEET LD-01	EXISTING	-	-	-
	17	EXISTING TREE / TO BE REMOVED SEE DEMOLITION PLANS	EXISTING	-	-	-
	8	KOELREUTERIA PANICULATA / GOLDEN RAIN TREE	24" BOX	9'-11' HT. X 4'-5' SPR.	1" CAL.	MODERATE
	15	RHUS LANCEA / AFRICAN SUMAC STANDARD TRUNK	24" BOX	7'-9' HT. X 3'-5' SPR.	1" CAL.	LOW
	19	ULMUS X 'MORTON ACCOLADE' TM / ELM	24" BOX	8'-10' HT. X 4'-5' SPR.	2" CAL.	MODERATE
SHRUBS	QTY	BOTANICAL / COMMON NAME	CONT.	SPACING	WUCOLS	
	125	CALLISTEMON CITRINUS 'LITTLE JOHN' / LITTLE JOHN DWARF BOTTLEBRUSH	5 GAL.	3' O.C.	LOW	
	49	CISTUS X PULVERULENTUS 'SUNSET' / SUNSET ROCKROSE	5 GAL.	4' O.C.	LOW	
	10	DODONAEA VISCOSA 'PURPUREA' / PURPLE LEAFED HOPSEED BUSH	5 GAL.	8' O.C.	LOW	
	30	HESPERALOE PARVIFLORA / RED YUCCA	5 GAL.	3' O.C.	LOW	
	165	PEROVSKIA ATRIPLICIFOLIA 'BLUE SPIRES' / BLUE SPIRES RUSSIAN SAGE	5 GAL.	4' O.C.	LOW	
	18	PEROVSKIA ATRIPLICIFOLIA 'LITTLE LACE' / LITTLE LACE RUSSIAN SAGE	5 GAL.	2' O.C.	LOW	
	94	RHAMNUS CALIFORNICA 'LITTLE SUR' / LITTLE SUR COFFEEBERRY	5 GAL.	5' O.C.	LOW	
	61	RHAPHIOLEPIS UMBELLATA 'MINOR' / YEDDA HAWTHORN	5 GAL.	5' O.C.	LOW	
	87	ROSA X 'FLOWER CARPET RED' / ROSE	5 GAL.	1.5' O.C.	MODERATE	
GRASSES	QTY	BOTANICAL / COMMON NAME	CONT.	SPACING	WUCOLS	
	282	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' / FEATHER REED GRASS	5 GAL.	2' O.C.	LOW	
	111	CHONDROPETALUM ELEPHANTINUM / LARGE CAPE RUSH	15 GAL.	5' O.C.	LOW	
	386	FESTUCA MAIREI / ATLAS FESCUE	5 GAL.	3' O.C.	LOW	
	193	LOMANDRA LONGIFOLIA 'LM300' / BREEZE MAT RUSH	5 GAL.	3' O.C.	LOW	
	36	MUHLENBERGIA CAPILLARIS / PINK MUHLY GRASS	5 GAL.	4' O.C.	LOW	
	189	MUHLENBERGIA RIGENS / DEER GRASS	5 GAL.	4' O.C.	LOW	
GROUND COVERS	QTY	BOTANICAL / COMMON NAME	CONT.	SPACING	WUCOLS	
	395	ARCTOSTAPHYLOS X 'EMERALD CARPET' / EMERALD CARPET MANZANITA	1 GAL.	3' O.C.	LOW	
	145	BACCHARIS PILULARIS 'PIGEON POINT' / PIGEON POINT COYOTE BRUSH	1 GAL.	3' O.C.	LOW	
	181	FESTUCA GLAUCA 'ELIJAH BLUE' / ELIJAH BLUE FESCUE	1 GAL.	2' O.C.	LOW	
	60	GAZANIA X 'MITSUWA YELLOW' / YELLOW GAZANIA	1 GAL.	3' O.C.	MODERATE	
EXISTING	QTY	BOTANICAL / COMMON NAME	CONT.	SPACING	WUCOLS	
	5,657 SF	EXISTING LANDSCAPE / EXISTING TO REMAIN PROTECT IN PLACE.	EXISTING	-	-	
INERT MATERIAL	QTY	BOTANICAL / COMMON NAME	CONT.	SPACING	WUCOLS	
	26,374 SF	MULCH / FIR BARK MULCH WALK ON FIR BARK MULCH- INSTALL 3" DEPTH PER SPECIFICATIONS.	MULCH	-	-	
	2,548 SF	ROCK COBBLE / 3"-5" WASHED GRAVEL 5" MINIMUM DEPTH W/ 1/2"-1" WASHED GRAVEL AT A MIN 1" DEPTH - SEE ROCK COBBLE DETAIL ON SHEET LD-01. (OR APPROVED EQUAL)	ROCK	-	-	
	+/-1,100 LF	ROOT BARRIER - SEE DETAILS ON SHEET LD-01	-	-	-	
	+/-100 LF	12" MOWBAND - SEE DETAILS ON SHEET LS-03	-	-	-	

**MAINTENANCE RESPONSIBILITY MAP**



**SPECIAL NOTES:**

1. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL VEGETATION, SHRUBS AND TREES IDENTIFIED WITH "PROTECT IN PLACE" ON THE DEMOLITION AND IMPROVEMENT PLANS. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING PLANT MATERIAL WHICH IS IMPACTED BY THE PROPOSED PROJECT CONSTRUCTION. EXISTING PLANT MATERIAL SHALL BE ADJUSTED, RELOCATED, SALVAGED/REINSTALLED AND/OR NEWLY FURNISHED AND INSTALLED IN LIKE SIZE AND KIND AS NEAR ITS ORIGINAL LOCATION AS POSSIBLE. NEW LOCATION(S) OF IMPACTED PLANT MATERIAL MUST BE APPROVED BY THE CITY'S REPRESENTATIVE PRIOR TO INSTALLATION. CONTRACTOR SHALL ENSURE THAT ANY ADJACENT LANDSCAPING OR PLANT MATERIAL IMPACTED BY THESE IMPROVEMENTS IS HEALTHY, DISEASE-FREE AND SHALL PROVIDE A WARRANTY THAT GUARANTEES ALL PLANT MATERIAL REPLACED AND/OR IMPACTED FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE OF THE CONTRACT.
2. THE CONTRACTOR SHALL ADJUST, RELOCATE, SALVAGE, REINSTALL AND/OR FURNISH AND INSTALL NEW IRRIGATION COMPONENTS IN LIKE KIND FOR ANY ADJACENT EXISTING IRRIGATION SYSTEM(S) IMPACTED BY THESE IMPROVEMENTS AND ENSURE THAT THEY ARE IN FULL WORKING ORDER PRIOR TO PROJECT COMPLETION. ANY IRRIGATION THAT IS REMOVED DURING THE CONSTRUCTION PROCESS SHALL BE CAPPED IN A MANNER THAT THE REMAINING PORTIONS OF THE SYSTEM ARE NOT COMPROMISED. EXISTING IRRIGATION LATERAL LINES, HEADS, WIRING AND ALL OTHER ASSOCIATED EQUIPMENT IMPACTED BY THE PROJECT CONSTRUCTION SHALL BE CAREFULLY CUT, CAPPED AND RELOCATED TO EXISTING LANDSCAPE AREAS. PRIOR TO COMPLETION, CONTRACTOR SHALL ENSURE THAT ALL EXISTING IRRIGATION SYSTEMS IMPACTED ARE IN FULL WORKING ORDER WITH COMPLETE HEAD TO HEAD COVERAGE INCLUDING NO OVERSPRAY ONTO HARDSCAPE SURFACES OR WALLS. ANY IRRIGATION EQUIPMENT DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN LIKE KIND BY THE CONTRACTOR.
3. A SOILS CONSULTANT AND SOIL ANALYSIS SHALL BE COORDINATED/PREPARED BY THE CONTRACTOR UPON THE COMPLETION OF MASS GRADING. THE EXISTING SOIL NUTRIENT INFORMATION WILL BE COMPARED AGAINST THE PROPOSED PLANT PALETTE TO DETERMINE THE APPROPRIATE AMENDMENT RECOMMENDATIONS AND SUBMITTED FOR REVIEW AND APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO PLANT AND SOIL AMENDMENT WORK STARTING.

**LANDSCAPE NOTES:**

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF ALL LOCAL STANDARDS, SPECIFICATIONS AND DRAWINGS, AS WELL AS ALL OTHER STANDARDS AND SPECIFICATIONS WHICH MAY BE NECESSARY TO COMPLETELY AND ACCURATELY INTERPRET THESE PLANS.
2. ALL QUANTITIES LISTED IN THE LANDSCAPE SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. IN THE CASE OF ANY DISCREPANCIES, PLANS SHALL OVER RIDE THE LANDSCAPE AND BID SCHEDULE QUANTITIES. CONTRACTOR SHALL VERIFY QUANTITIES SHOWN ON THE PLANS AND BASE THEIR BID ACCORDINGLY.
3. RESPONSIBILITY FOR ESTABLISHING SUBGRADES IS NOT INCLUDED IN THIS WORK. INSPECT SUBGRADES PRIOR TO COMMENCING WORK TO CONFIRM SUBGRADE DEPTHS AND GRADES. ADVISE LANDSCAPE ARCHITECT OF DISCREPANCIES WITH DRAWINGS OR SPECIFICATIONS. ALL PLANTING AREAS SHALL BE LEFT FREE OF CONSTRUCTION DEBRIS AND/OR TOXIC MATERIAL AND SUBGRADED TO A LEVEL TO PERMIT LANDSCAPE CONSTRUCTION. TRENCHES OR OTHER FILLED EXCAVATIONS SHALL BE COMPACTED PRIOR TO LANDSCAPE INSTALLATION.
4. SITE GRADING NECESSITATED BY THE WORK AS IT PROGRESSES AND NOT SPECIFICALLY CALLED OUT ON THE PLANS WILL BE CONSIDERED INCIDENTAL WORK.
5. ALL LANDSCAPE AREAS SHALL BE UNIFORMLY GRADED SO THAT FINISHED SURFACES CONFORM TO THE TYPICAL SECTIONS AND PROPOSED GRADES SHOWN. FINISHED SURFACES SHALL BE REASONABLY SMOOTH, COMPACTED, AND FREE FROM IRREGULAR SURFACE DRAINAGE. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING THE FINISH GRADE AND SHALL BEAR FINAL RESPONSIBILITY FOR PROPER SURFACE DRAINAGE OF PLANTED AREAS.
6. PRIOR TO COMMENCEMENT OF ANY WORK, DETERMINE LOCATION OF ALL UNDERGROUND UTILITIES THROUGH '811' OR OTHER METHOD AND PERFORM WORK IN A MANNER WHICH WILL AVOID POSSIBLE DAMAGE. HAND EXCAVATE, AS REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES CAUSED AS A RESULT OF HIS/HER WORK.
7. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY THE PRESENT LOCATION OF ANY AND ALL EXISTING OVERHEAD AND/OR UNDERGROUND UTILITIES THAT MAY INTERFERE WITH THIS CONSTRUCTION, WHETHER OR NOT SAID UTILITIES ARE SHOWN ON THE CONSTRUCTION PLANS FOR THIS PROJECT AND TO ADEQUATELY PROTECT AND MAINTAIN ANY SUCH UTILITIES.
8. EXCAVATE PITS, AS SHOWN ON DRAWINGS AND DETAILS. LOOSEN HARD SUBSOIL IN BOTTOM OF EXCAVATION. TEST DRAINAGE OF SHRUB AND PLANT PITS BY FILLING WITH WATER TWICE IN SUCCESSION. CONDITIONS PERMITTING THE RETENTION OF WATER IN PLANTING PITS FOR MORE THAN TWENTY-FOUR (24) HOURS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. SUBMIT IN WRITING A PROPOSAL FOR THE CORRECTION TO THE OWNER'S REPRESENTATIVE FOR APPROVAL BEFORE PROCEEDING WITH WORK.
9. IF ROCK, UNDERGROUND CONSTRUCTION, ADVERSE DRAINAGE CONDITIONS, OR OTHER OBSTRUCTIONS ARE ENCOUNTERED IN EXCAVATION FOR PLANTING OF ANY PLANT MATERIAL, NOTIFY THE OWNER'S REPRESENTATIVE. NEW LOCATIONS MAY BE SELECTED BY THE OWNER'S REPRESENTATIVE, OR INSTRUCTIONS MAY BE ISSUED TO DIRECT REMOVAL OF OBSTRUCTION. PROCEED WITH WORK ONLY AFTER APPROVAL OF THE OWNER'S REPRESENTATIVE.
10. DO NOT MAKE SUBSTITUTIONS. IF SPECIFIED LANDSCAPE MATERIAL IS NOT OBTAINABLE, SUBMIT PROOF OF NON-AVAILABILITY FROM AT LEAST FIVE SOURCES TO THE OWNER'S REPRESENTATIVE, TOGETHER WITH PROPOSAL FOR USE OF EQUIVALENT MATERIAL FOR FINAL APPROVAL.
11. ALL PLANT MATERIAL AND SPECIFICATIONS TO CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK STANDARDS UNLESS OTHERWISE NOTED.
12. LAY OUT INDIVIDUAL PLANT LOCATIONS AND AREAS FOR MULTIPLE PLANTINGS, STAKE LOCATIONS AND OUTLINE AREAS AND SECURE THE OWNER'S REPRESENTATIVE'S ACCEPTANCE BEFORE START OF PLANTING WORK. MAKE MINOR ADJUSTMENTS AS MAY BE DIRECTED.
13. FOR LANDSCAPE INSTALLATIONS, COMPOST AT A RATE OF A MINIMUM OF FOUR CUBIC YARDS PER 1,000 SQUARE FEET OF PERMEABLE AREA SHALL BE INCORPORATED TO A DEPTH OF SIX INCHES INTO THE SOIL. SOILS WITH GREATER THAN 6% ORGANIC MATTER IN THE TOP 6 INCHES OF SOIL ARE EXEMPT FROM ADDING COMPOST AND TILLING. PER WEL0 14.18.050 B 4. F. (III.) (ENVIRONMENTAL UTILITIES-WEL0)
14. ALL PLANTS SHALL BE PLANTED A MINIMUM OF 5 FEET, ALL SHRUBS AND ACCENTS A MINIMUM OF 36", AND ALL GROUNDCOVERS 18" FROM EDGE OF CURBS, WALKS, WALLS, PADS, ETC., UNLESS DIRECTED OTHERWISE BY THE LANDSCAPE ARCHITECT.
15. ALL SHRUBS SHALL HAVE A FULL HEAD THAT COVERS THE CAN DIAMETER (CAN FULL) AND A MINIMUM OF THREE STEMS/BRANCHES.
16. FINISH GRADE OF MULCH SHALL BE 1" BELOW ALL CURBS, WALKS AND PAVING WITH SMOOTH EVEN LINES AT EDGES OF STRUCTURES.
17. FINISH LANDSCAPE GRADES SHALL SLOPE AT A 2% GRADE AWAY FROM CURBS, WALKS, AND WALLS.
18. ALL LANDSCAPE AREAS SHALL RECEIVE MULCH, AT A DEPTH AND TYPE, AS SHOWN ON THESE PLANS. APPLY PRE-EMERGENT HERBICIDE PRIOR TO AND AFTER MULCH INSTALLATION.
19. PROVIDE SAMPLES OF PROPOSED MULCH SHOWING COLOR, GRADATION SIZE RANGE AND TEXTURE INCLUDING PROPOSED SOURCE. PROVIDE 1/2 CUBIC FOOT SAMPLE OF EACH.
20. ANY ROCK MULCH SHALL NOT CONTAIN LUMPS OR BALLS OF CLAY, CALICHE, ORGANIC MATTER OR CALCAREOUS COATING. THE CONTRACTOR SHALL ENSURE THAT SUFFICIENT QUANTITY IS AVAILABLE FROM A SINGLE SOURCE TO COMPLETE THE PROJECT. THE OWNER'S REPRESENTATIVE SHALL APPROVE SAMPLES PRIOR TO ORDERING.
21. NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURBS, PAVEMENT AND SIDEWALKS HAVE BEEN SWEEPED CLEAN OF ALL DIRT AND DEBRIS ACCORDING TO PLANS.
22. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY PERMITS REQUIRED.
23. ALL CONSTRUCTION ROADS AND COMPACTED AREAS DEVELOPED THROUGH CONSTRUCTION THAT ARE WITHIN THE LANDSCAPE AREAS SHALL BE SCARIFIED AND LOOSENEED TO A DEPTH OF 12" PRIOR TO LANDSCAPE AND IRRIGATION WORK BEGINNING.
24. ALL CITY-MAINTAINED LANDSCAPES SHALL BE CONSTRUCTED ACCORDING TO CITY OF ROSEVILLE PARKS CONSTRUCTION STANDARDS, LATEST EDITION.

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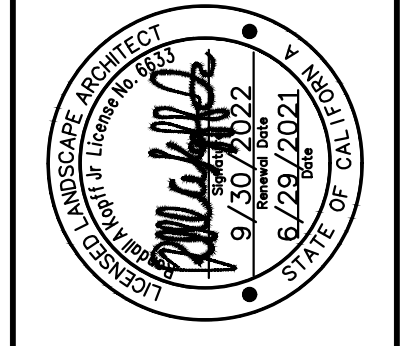


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I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AB-1881 AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN.  
  
 RANDALL KOPFF JR, LLA 6633

NO.	REVISIONS	DATE	BY

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KHA PROJECT	097918026
DATE	JUNE 2021
SCALE	AS SHOWN
DESIGNED BY	
DRAWN BY	
CHECKED BY	

WASHINGTON BLVD AT ALL AMERICA CITY  
 BLVD ROUNDABOUT PROJECT  
 LS-00  
 LANDSCAPE COVER SHEET  
 CITY OF ROSEVILLE, PLACER COUNTY, CALIFORNIA

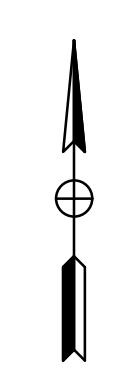
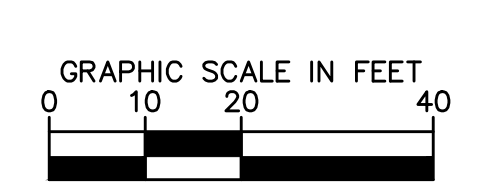
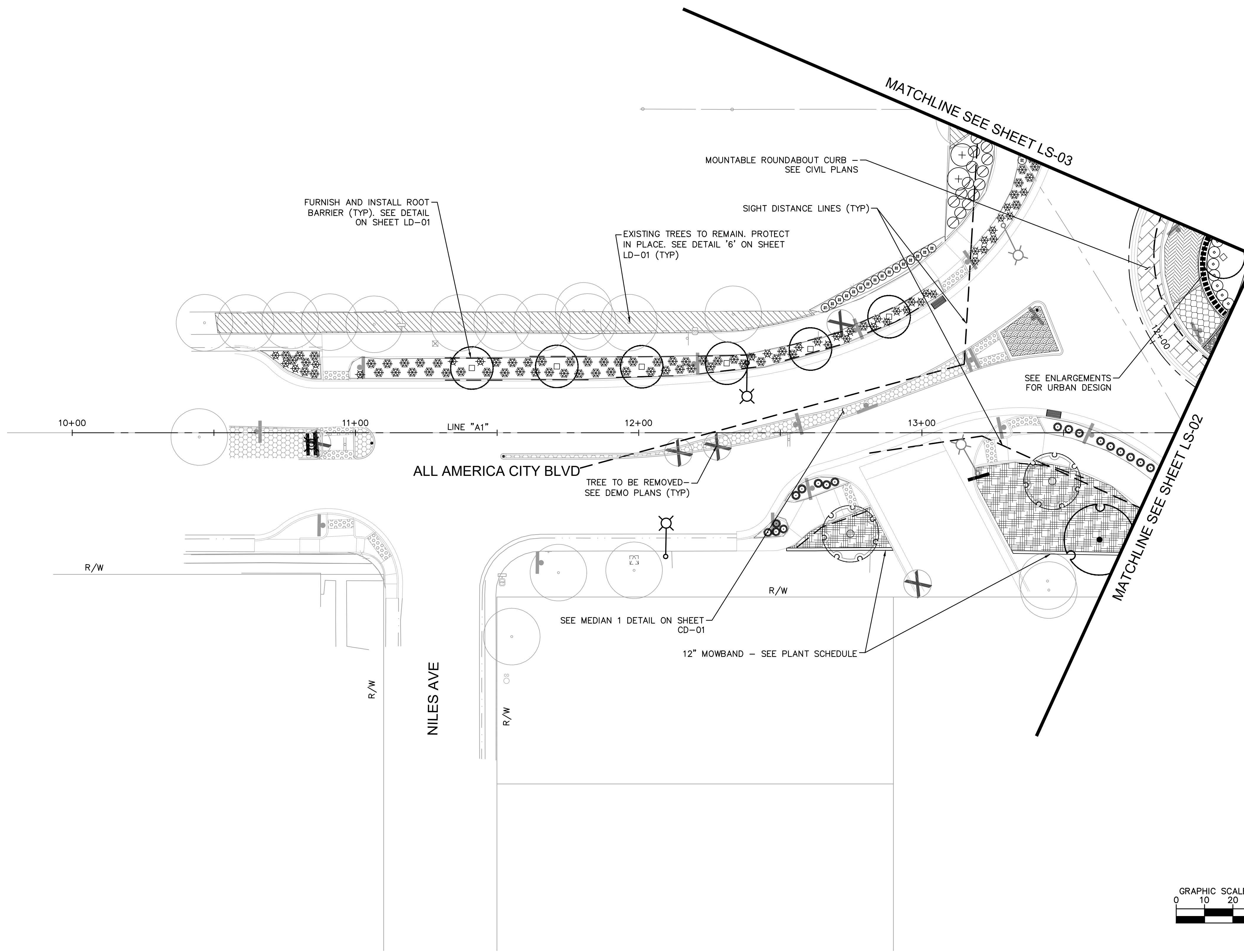
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**PLANT LEGEND** SEE SHEET L-100 FOR COMPLETE PLANT LEGEND

TREES	BOTANICAL / COMMON NAME
	ARBUTUS X 'MARINA' / MARINA STRAWBERRY TREE STANDARD TRUNK
	EXISTING TREE / TO REMAIN PROTECT IN PLACE - SEE DETAIL '6' SHEET LD-01
	EXISTING TREE / TO BE REMOVED SEE DEMOLITION PLANS
	KOELREUTERIA PANICULATA / GOLDEN RAIN TREE STANDARD TRUNK
	RHUS LANCEA / AFRICAN SUMAC STANDARD TRUNK
	ULMUS X 'MORTON ACCOLADE' TM / ELM STANDARD TRUNK
SHRUBS	BOTANICAL / COMMON NAME
	CALLISTEMON CITRINUS 'LITTLE JOHN' / LITTLE JOHN DWARF BOTTLEBRUSH
	CISTUS X PULVERULENTUS 'SUNSET' / SUNSET ROCKROSE
	DODONAEA VISCOSA 'PURPUREA' / PURPLE LEAFED HOPSEED BUSH
	HESPERALOE PARVIFLORA / RED YUCCA
	PEROVSKIA ATRIPLICIFOLIA 'BLUE SPIRES' / BLUE SPIRES RUSSIAN SAGE
	PEROVSKIA ATRIPLICIFOLIA 'LITTLE LACE' / LITTLE LACE RUSSIAN SAGE
	RHAMNUS CALIFORNICA 'LITTLE SUR' / LITTLE SUR COFFEEBERRY
	RHAPHIOLEPIS UMBELLATA 'MINOR' / YEDDA HAWTHORN
	ROSA X 'FLOWER CARPET RED' / ROSE
GRASSES	BOTANICAL / COMMON NAME
	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' / FEATHER REED GRASS
	CHONDROPETALUM ELEPHANTINUM / LARGE CAPE RUSH
	FESTUCA MAIREI / ATLAS FESCUE
	LOMANDRA LONGIFOLIA 'LM300' / BREEZE MAT RUSH
	MUHLENBERGIA CAPILLARIS / PINK MUHLY GRASS
	MUHLENBERGIA RIGENS / DEER GRASS
GROUND COVERS	BOTANICAL / COMMON NAME
	ARCTOSTAPHYLOS X 'EMERALD CARPET' / EMERALD CARPET MANZANITA
	BACCHARIS PILULARIS 'PIGEON POINT' / PIGEON POINT COYOTE BRUSH
	FESTUCA GLAUCA 'ELIJAH BLUE' / ELIJAH BLUE FESCUE
	GAZANIA X 'MITSUWA YELLOW' / YELLOW GAZANIA
	SOD / TURF, MATCH EXISTING TIGHTLY ROLLED, FREE OF OBNOXIOUS WEEDS
EXISTING	BOTANICAL / COMMON NAME
	EXISTING LANDSCAPE / EXISTING TO REMAIN PROTECT IN PLACE.
INERT MATERIAL	BOTANICAL / COMMON NAME
	MULCH / FIR BARK MULCH
	ROCK COBBLE / 4"-6" ROCK COBBLE
	ROOT BARRIER - SEE SHEET LD-01
	12" MOWBAND - SEE DETAILS ON SHEET LS-03



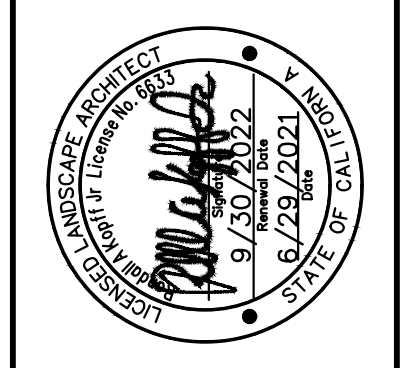
ALL CITY-MAINTAINED LANDSCAPES SHALL BE CONSTRUCTED ACCORDING TO CITY OF ROSEVILLE PARKS CONSTRUCTION STANDARDS, LATEST EDITION.



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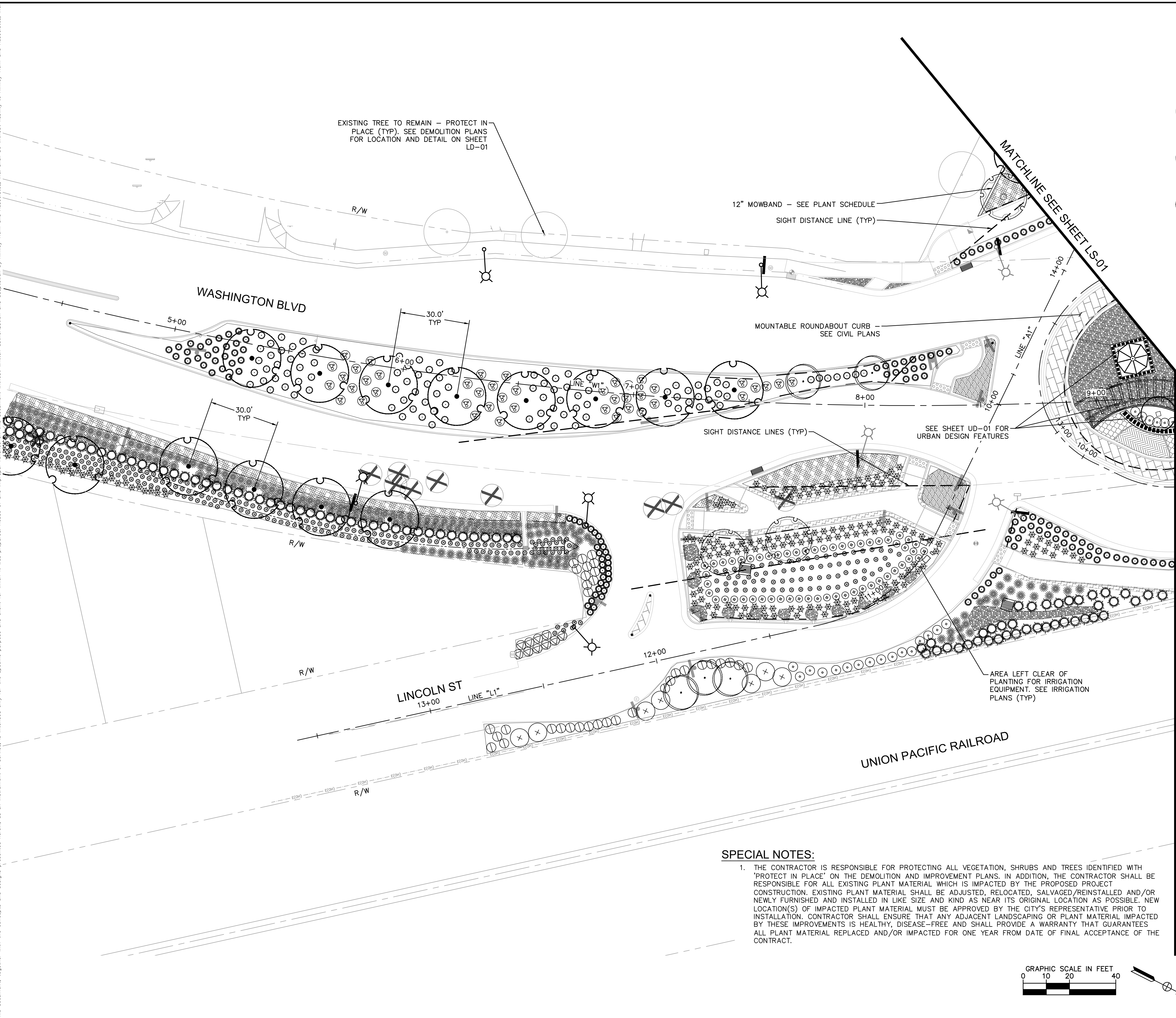


KHA PROJECT	097918026
DATE	JUNE 2021
SCALE	AS SHOWN
DESIGNED BY	
DRAWN BY	
CHECKED BY	

**WASHINGTON BLVD AT ALL AMERICA CITY BLVD ROUNDABOUT PROJECT**  
 LANDSCAPE PLANS  
 LS-01  
 CITY OF ROSEVILLE, PLACER COUNTY, CALIFORNIA

SHEET NUMBER  
 47 OF 60

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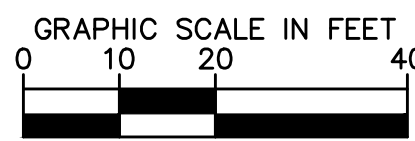


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TREES	BOTANICAL / COMMON NAME
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	GAZANIA X 'MITSUWA YELLOW' / YELLOW GAZANIA
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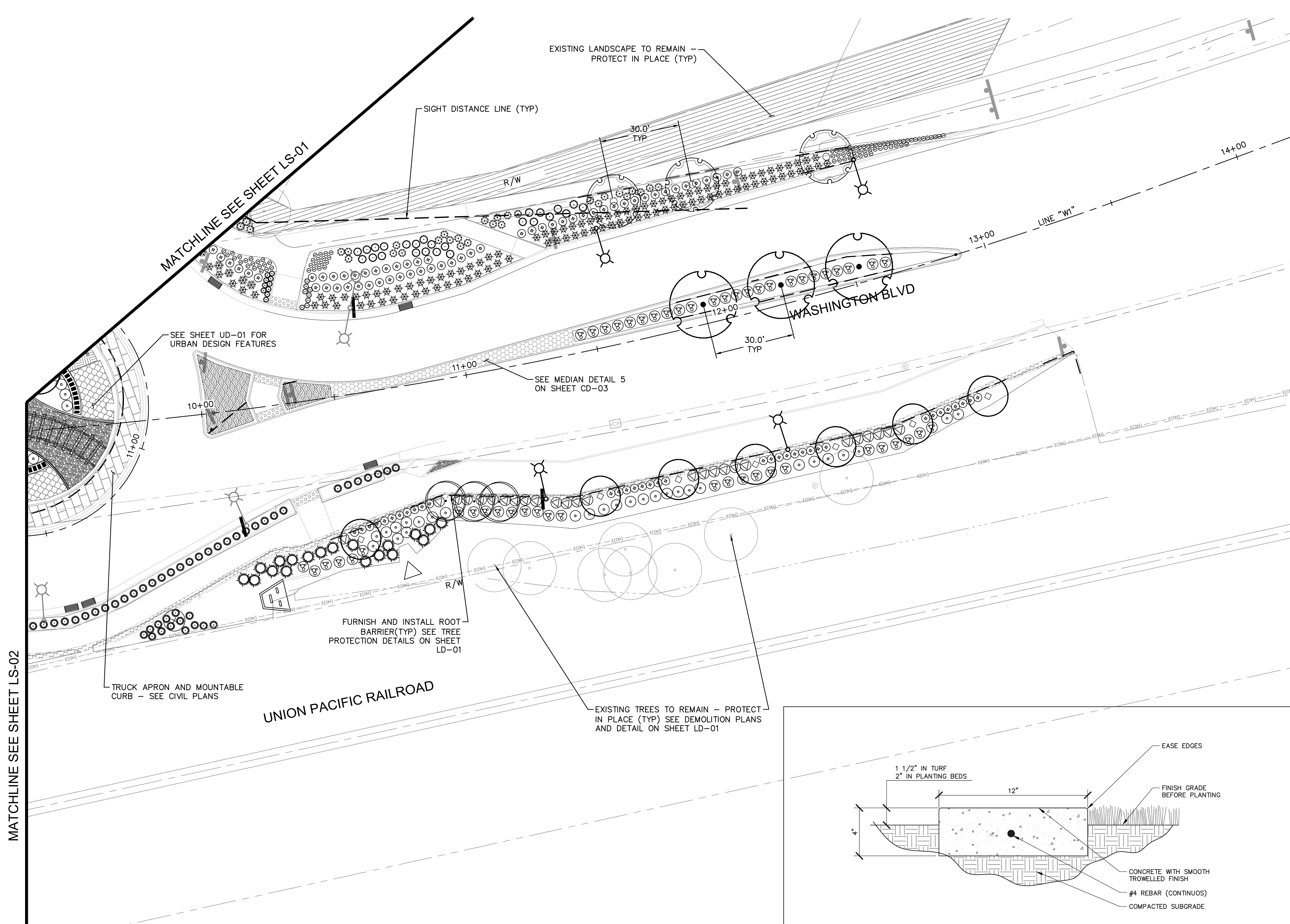
ALL CITY-MAINTAINED LANDSCAPES SHALL BE CONSTRUCTED ACCORDING TO CITY OF ROSEVILLE PARKS CONSTRUCTION STANDARDS, LATEST EDITION.



Know what's below. Call before you dig.

 555 CAPITOL MALL, SUITE 600, SACRAMENTO, CA 95814 TEL: 916.486.8800 WWW.KIMLEY-HORN.COM		NO.	DATE	BY
KHA PROJECT: 097918026 DATE: JUNE 2021 SCALE: AS SHOWN DESIGNED BY: [Signature] DRAWN BY: [Signature] CHECKED BY: [Signature]		CITY OF ROSEVILLE, PLACER COUNTY, CALIFORNIA LANDSCAPE PLANS LS-02		
WASHINGTON BLVD AT ALL AMERICA CITY BLVD ROUNDABOUT PROJECT		SHEET NUMBER 48 OF 60		

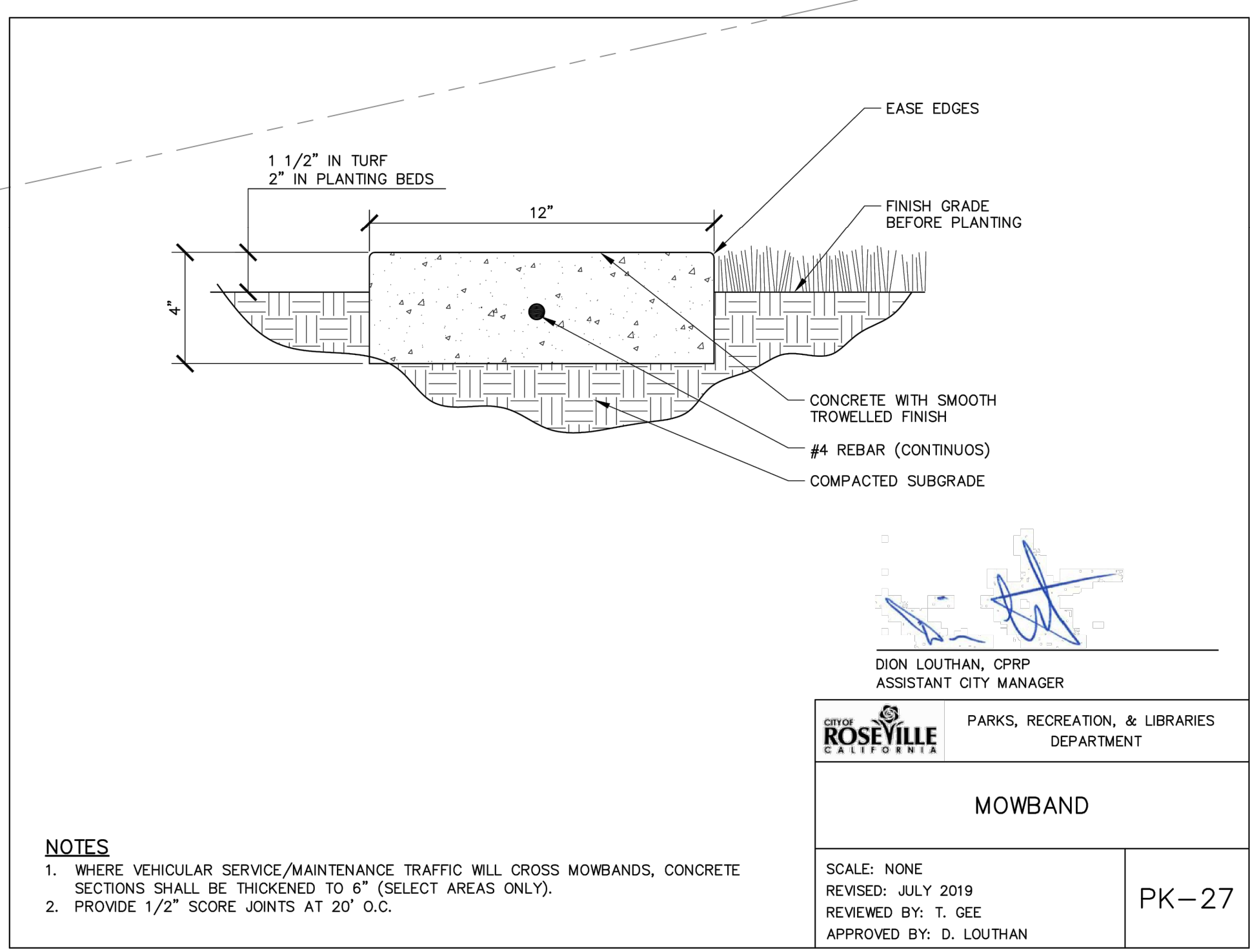
K:\SAC-TPTD\ROSEVILLE\ALL AMERICA RAB - 097918026\08 CADD\PLANSHEETS\LS-01 LANDSCAPE PLANS.DWG  
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PLANT LEGEND	
TREES	BOTANICAL / COMMON NAME
	ARBUTUS X 'MARINA' / MARINA STRAWBERRY TREE STANDARD TRUNK
	EXISTING TREE / TO REMAIN PROTECT IN PLACE - SEE DETAIL '6' SHEET LD-01
	EXISTING TREE / TO BE REMOVED SEE DEMOLITION PLANS
	KOELREUTERIA PANICULATA / GOLDEN RAIN TREE STANDARD TRUNK
	RHUS LANCEA / AFRICAN SUMAC STANDARD TRUNK
	ULMUS X 'MORTON ACCOLADE' TM / ELM STANDARD TRUNK
SHRUBS	BOTANICAL / COMMON NAME
	CALLISTEMON CITRINUS 'LITTLE JOHN' / LITTLE JOHN DWARF BOTTLEBRUSH
	CISTUS X PULVERULENTUS 'SUNSET' / SUNSET ROCKROSE
	DODONAEA VISCOSA 'PURPUREA' / PURPLE LEAFED HOPSEED BUSH
	HESPERALOE PARVIFLORA / RED YUCCA
	PEROVSKIA ATRIPLICIFOLIA 'BLUE SPIRES' / BLUE SPIRES RUSSIAN SAGE
	PEROVSKIA ATRIPLICIFOLIA 'LITTLE LACE' / LITTLE LACE RUSSIAN SAGE
	RHAMNUS CALIFORNICA 'LITTLE SUR' / LITTLE SUR COFFEEBERRY
	RHAPHOLEPIS UMBELLATA 'MINOR' / YEDDA HAWTHORN
	ROSA X 'FLOWER CARPET RED' / ROSE
GRASSES	BOTANICAL / COMMON NAME
	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' / FEATHER REED GRASS
	CHONDROPETALUM ELEPHANTINUM / LARGE CAPE RUSH
	FESTUCA MAIREI / ATLAS FESCUE
	LOMANDRA LONGIFOLIA 'LM300' / BREEZE MAT RUSH
	MUHLENBERGIA CAPILLARIS / PINK MUHLY GRASS
	MUHLENBERGIA RIGENS / DEER GRASS
GROUND COVERS	BOTANICAL / COMMON NAME
	ARCTOSTAPHYLOS X 'EMERALD CARPET' / EMERALD CARPET MANZANITA
	BACCHARIS PILULARIS 'PIGEON POINT' / PIGEON POINT COYOTE BRUSH
	FESTUCA GLAUCA 'ELIJAH BLUE' / ELIJAH BLUE FESCUE
	GAZANIA X 'MITSUWA YELLOW' / YELLOW GAZANIA
	SOD / TURF, MATCH EXISTING TIGHTLY ROLLED, FREE OF OBNOXIOUS WEEDS
EXISTING	BOTANICAL / COMMON NAME
	EXISTING LANDSCAPE / EXISTING TO REMAIN PROTECT IN PLACE.
INERT MATERIAL	BOTANICAL / COMMON NAME
	MULCH / FIR BARK MULCH
	ROCK COBBLE / 4"-6" ROCK COBBLE
	ROOT BARRIER - SEE SHEET LD-01

**SPECIAL NOTES:**

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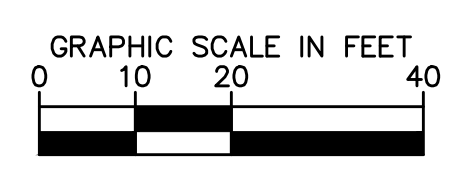


**NOTES**

- WHERE VEHICULAR SERVICE/MAINTENANCE TRAFFIC WILL CROSS MOWBANDS, CONCRETE SECTIONS SHALL BE THICKENED TO 6" (SELECT AREAS ONLY).
- PROVIDE 1/2" SCORE JOINTS AT 20' O.C.

SCALE: NONE  
REVISED: JULY 2019  
REVIEWED BY: T. GEE  
APPROVED BY: D. LOUTHAN

**PK-27**



ALL CITY-MAINTAINED LANDSCAPES SHALL BE CONSTRUCTED ACCORDING TO CITY OF ROSEVILLE PARKS CONSTRUCTION STANDARDS, LATEST EDITION.

<p><b>Kimley»Horn</b></p> <p>555 CAPITOL MALL, SUITE 600, SACRAMENTO, CA 95814 WWW.KIMLEY-HORN.COM</p>	<p>KHA PROJECT: 097918026</p> <p>DATE: JUNE 2021</p> <p>SCALE: AS SHOWN</p> <p>DESIGNED BY: [Signature]</p> <p>DRAWN BY: [Signature]</p> <p>CHECKED BY: [Signature]</p>												
	<p>WASHINGTON BLVD AT ALL AMERICA CITY BLVD ROUNDABOUT PROJECT</p> <p>LS-03 LANDSCAPE PLANS</p> <p>CITY OF ROSEVILLE, PLACER COUNTY, CALIFORNIA</p>												
<p>REVISIONS</p> <table border="1"> <tr><th>NO.</th><th>DATE</th><th>BY</th></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	NO.	DATE	BY										<p>SHEET NUMBER 49 OF 60</p>
NO.	DATE	BY											



IRRIGATION SCHEDULE

Table with columns: SYMBOL, MANUFACTURER/MODEL, QTY, ARC, PSI, GPM, RADIUS, DETAIL. Lists various Rain Bird and Netafim irrigation components.

Table with columns: SYMBOL, MANUFACTURER/MODEL/DESCRIPTION, QTY, DETAIL. Lists various Netafim and Rain Bird control valves and indicators.

Table with columns: SYMBOL, MANUFACTURER/MODEL/DESCRIPTION, QTY, DETAIL. Lists various Rain Bird and Matco-Norca valves and sensors.

PIPE SCHEDULE

Table with columns: IRRIGATION LATERAL LINE, IRRIGATION MAINLINE, PIPE SLEEVE. Lists PVC SCHEDULE 40 and 40 1/2 pipes.

IRRIGATION NOTES

- 1. THE SYSTEM HAS BEEN DESIGNED TO PROVIDE 100% COVERAGE. ANY CHANGES MADE IN THE LAYOUT DUE TO FIELD CONDITIONS SHALL BE IN ACCORDANCE WITH THESE STANDARDS. QUANTITIES IN SCHEDULE ARE ESTIMATED. PLAN SHALL TAKE PRECEDENCE.
2. ALL IRRIGATION LINES AND VALVES ARE SHOWN DIAGRAMMATICALLY. ALL LINES AND VALVES TO BE INSTALLED IN PLANTING AREAS WHERE POSSIBLE.
3. CONTRACTOR TO FIELD LOCATE ALL PROPOSED IRRIGATION WATER MAIN LINE LOCATIONS. CONTACT LANDSCAPE ARCHITECT PRIOR TO START OF WORK IF DISCREPANCIES BETWEEN THIS PLAN AND EXISTING CONDITIONS ARE FOUND.
4. LOCATE ALL VALVES INSIDE LANDSCAPE AREAS, ALLOWING ACCESS FOR MAINTENANCE PURPOSES, BUT HIDING THEM FROM PUBLIC VIEW WHENEVER POSSIBLE.
5. ALL PRESSURE MAINLINES UNDER ASPHALT PAVEMENT SHALL BE PLACED WITHIN SLEEVES AS NOTED. WHERE ELECTRIC VALVE CONTROL LINES PASS THROUGH A SLEEVE WITH OTHER MAIN OR LATERAL LINES THEY SHALL BE CONTAINED WITHIN A SEPARATE, SMALLER CONDUIT.
6. CONTRACTOR SHALL PROVIDE "AS-BUILT" DRAWINGS OF THE FINAL INSTALLATION TO OWNER AT SUBSTANTIAL COMPLETION BEFORE RECEIVING FINAL PAYMENT.
7. ALL SLEEVES UTILIZED BY THE IRRIGATION CONTRACTOR, WHETHER INSTALLED BY HIM OR NOT, SHALL BE LOCATED ON THE "AS-BUILT" DRAWINGS. THE DEPTH BELOW FINISH GRADE, TO THE NEAREST FOOT OF EACH END OF EACH SLEEVE SHALL BE NOTED AT EACH SLEEVE LOCATION ON THE "AS-BUILT" DRAWINGS. ALL SLEEVES SHALL BE SIZED TWO PIPE SIZES GREATER THAN PIPE IT CARRIES.
8. ALL DRIP ZONES SHALL BE INSTALLED WITH A SELF-FLUSHING DISC FILTER, OR APPROVED EQUAL.
9. IRRIGATION CONTRACTOR SHALL SECURE ANY AND ALL NECESSARY PERMITS FOR THE WORK PRIOR TO COMMENCEMENT OF HIS OPERATIONS ON-SITE. COPIES OF THE PERMITS SHALL BE SENT TO THE OWNER/GENERAL CONTRACTOR. WORK IN THE R.O.W. SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL AND/OR STATE HIGHWAY JURISDICTION.
10. VERIFY CONTROLLER AND RAIN SENSOR LOCATION AND MAINLINE POINT OF CONNECTION AT PROJECT SITE WITH OWNER.
11. ELECTRIC SERVICE TO CONTROLLER SHALL BE PROVIDED BY THE GENERAL CONTRACTOR.
12. ALL 24 VAC WIRING SHALL BE OF DIRECT BURIAL COPPER WIRE AS FOLLOWS:
- CONTROL WIRES - #14
- COMMON WIRES - #12
13. INSTALLATION OF WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR A SPEEDY AND ORDERLY COMPLETION OF ALL WORK ON THE SITE.
14. COORDINATE WITH PLANTING PLAN FOR PLANTER BED LOCATIONS AND TREE LOCATIONS.
15. CONTRACTOR SHALL COORDINATE WITH DEVELOPER FOR OPERATING PARAMETERS OF MASTER SYSTEM. THIS DESIGN REQUIRES 70 PSI TO OPERATE. IF THE MASTER SYSTEM CANNOT PROVIDE THESE PARAMETERS, CONTRACTOR SHALL MAKE ADJUSTMENTS TO THE DESIGN BY ADDING CONTROL VALVES, A BOOSTER PUMP, PRESSURE REDUCING VALVE, OR OTHER EQUIPMENT, AS NECESSARY. CONTRACTOR SHALL SUBMIT DESIGN REVISIONS TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO SUBMITTING BID.
16. A FINAL REPORT FOR THE TESTING AND ADJUSTING OF ALL NEW SYSTEMS SHALL BE COMPLETED PRIOR TO FINAL APPROVAL BY THE FIELD INSPECTOR. THIS REPORT SHALL BE SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.
17. A LAMINATED DIAGRAM OF THE IRRIGATION PLAN SHOWING HYDROZONES SHALL BE KEPT WITH THE IRRIGATION CONTROLLER FOR SUBSEQUENT MANAGEMENT PURPOSES.
18. A CERTIFICATE OF COMPLETION SHALL BE FILLED OUT AND CERTIFIED BY EITHER THE SIGNER OF THE LANDSCAPE PLANS, THE SIGNER OF THE IRRIGATION PLANS, OR THE LICENSED LANDSCAPE CONTRACTOR FOR THE PROJECT.
19. PROVIDE 12" MINIMUM CLEARANCE BETWEEN ALL OVERHEAD IRRIGATION SPRINKLERS AND THE PERIMETER HARDSCAPE.
20. IRRIGATION AUDIT, IRRIGATION SURVEY, AND IRRIGATION WATER USE ANALYSIS, WELO 14.18.080
20.1. ALL LANDSCAPE IRRIGATION AUDITS SHALL BE CONDUCTED BY A THIRD PARTY CERTIFIED LANDSCAPE IRRIGATION AUDITOR. LANDSCAPE AUDITS SHALL NOT BE CONDUCTED BY THE PERSON WHO DESIGNED THE LANDSCAPE OR INSTALLED THE LANDSCAPE.
20.2. IN LARGE PROJECTS OR PROJECTS WITH MULTIPLE LANDSCAPE INSTALLATIONS (I.E. PRODUCTION HOME DEVELOPMENTS) AN AUDITING RATE OF 1 IN 7 LOTS OR APPROXIMATELY 15% OF THE PROJECTS IRRIGATION VALVES SHALL SATISFY THIS REQUIREMENT.
20.3. FOR NEW CONSTRUCTION AND REHABILITATED LANDSCAPE PROJECTS INSTALLED AFTER DECEMBER 1, 2015, AS DESCRIBED IN SECTION 14.18.030.
20.3.1. THE PROJECT APPLICANT SHALL SUBMIT AN IRRIGATION AUDIT REPORT WITH THE CERTIFICATE OF COMPLETION TO THE LOCAL AGENCY THAT MAY INCLUDE, BUT IS NOT LIMITED TO: INSPECTION, SYSTEM TUNE UP, SYSTEM TEST DISTRIBUTION UNIFORMITY, REPORTING OVERSPRAY OR RUN OFF THAT CAUSES OVERLAND FLOW, AND PREPARATION OF AN IRRIGATION SCHEDULE, INCLUDING CONFIGURING IRRIGATION CONTROLLERS WITH APPLICATION RATE, SOIL TYPES, PLANT FACTORS, SLOPE, EXPOSURE AND ANY OTHER FACTORS NECESSARY FOR ACCURATE PROGRAMING. (ENVIRONMENTAL UTILITIES-WELO)
21. CONTRACTOR TO INCLUDE WELO CERTIFICATE OF COMPLETION PACKAGE SECTION 14.18.060. CONTRACTOR IS REQUIRED TO PROVIDE IRRIGATION SCHEDULES (ESTABLISHED AND ESTABLISHED), MAINTENANCE SCHEDULE, WATER AUDIT, AS WELL AS ALL OTHER REQUIREMENTS NEEDED PRIOR TO FINAL ACCEPTANCE. (ENVIRONMENTAL UTILITIES WELO)

MAINTENANCE:

- 1. LOW-FLOW BUBBLER ZONES WILL BE DRAINED IN COLD WEATHER SITUATIONS USING THE MANUAL FLUSH VALVES.
2. FILTER CLEANING AND REPLACEMENT ON A REGULAR BASIS.
3. CHECKING FOR LEAKS AT EACH VALVE AND INSPECTION OF EACH ZONE ON A MONTHLY BASIS.
4. HAVE THE CONTRACTOR WALK EACH SECTION OF LOW-FLOW BUBBLERS TO CHECK FOR CLOGGING OR PROBLEMS.
5. IF AN ON-SITE WEATHER STATION IS SPECIFIED, IT NEEDS TO BE CALIBRATED REGULARLY TO PROVIDE ACCURATE DATA. BECAUSE OF THE COST OF MAINTAINING AN ON-SITE WEATHER STATION, IT IS RECOMMENDED TO USE A CONTROL SYSTEM WHICH UTILIZES A NETWORK OF ET DATA THAT CAN ASSURE ACCURACY TO WITHIN ONE KILOMETER OF THE SITE.

STATE OF CALIFORNIA ESTIMATED WATER USE. TOTAL WATER USE IS CALCULATED BY SUMMING THE AMOUNT OF WATER ESTIMATED FOR EACH HYDROZONE. WATER USE FOR EACH HYDROZONE IS ESTIMATED WITH THE FOLLOWING FORMULA:
ESTIMATED TOTAL WATER USE (ETWU) = GAL / YEAR PER HYDROZONE
ET ADJUSTMENT FACTOR (ETAF) = 0.55 ETAF FOR RESIDENTIAL LANDSCAPE, 0.45 ETAF FOR NON-RESIDENTIAL LANDSCAPE, 0.8 ETAF FOR EXISTING NON-REHABILITATED LANDSCAPE, SPECIAL LANDSCAPE SHALL NOT EXCEED 1.0 ETAF
PLANT FACTOR (PF) = WATER USE CLASSIFICATION OF LANDSCAPE SPECIES
HYDROZONE AREA (HA) = (SF OF LANDSCAPE) OR (32 SF / TREE)
CONVERSION FACTOR (CONVERTS ACRE-INCHES PER ACRE PER YEAR TO GALLONS PER SQUARE FOOT PER YEAR = 0.62)
IRRIGATION EFFICIENCY (IE) = 0.75 (OVERHEAD SPRAY) 0.81 (DRIP)
SPECIAL LANDSCAPE AREA (SLA) = SF OF EDIBLE PLANTS, RECREATIONAL AREAS, AREAS IRRIGATED WITH RECYCLED WATER, OR WATER FEATURS USING RECYCLED WATER
EVAPOTRANSPIRATION RATE (ETo) = QUANTITY OF WATER EVAPORATED FROM ADJ. SOIL AND TRANSPIRED BY PLANTS OVER A SPECIFIED TIME
ETWU = [(ETo) \* (PF) \* (HA) \* (0.62)] / (IE)
MAWA = (ETo) \* (0.62) [ETAF] \* (SUM OF SLA & HA)] + [(1-ETAF) \* (SLA)]
HYDROZONE "A" (DRIP)
HYDROZONE "B" (BUBBLERS)
HYDROZONE "C" (ROTARY)
ESTIMATED TOTAL WATER USE (GAL/YEAR)
MAXIMUM APPLIED WATER ALLOWANCE (MAWA)
MAXIMUM APPLIED WATER ALLOWANCE PERCENT OF ESTIMATED TOTAL WATER USE 98.03%

I HAVE COMPLIED WITH THE CRITERIA OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE AND IRRIGATION DESIGN PLAN.

RANDALL A. PUFF JR, LLA 6633

VALVE SCHEDULE - CITY

Table with columns: NUMBER, MODEL, SIZE, TYPE, GPM, PSI, PSI @ POC, PRECIP. Lists various Rain Bird valves and their specifications.

VALVE SCHEDULE - PLACER COUNTY FAIRGROUND

Table with columns: NUMBER, MODEL, SIZE, TYPE, GPM, PSI, PSI @ POC, PRECIP. Lists Rain Bird valves for Placer County Fairground.

K:\SAC\PTO\ROSEVILLE WASHINGTON @ ALL AMERICA RAB - 092918026\08\_CADD\PLANSHEETS\IR-01\_IRRIGATION\_PLANS.DWG
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WASHINGTON BLVD AT ALL AMERICA CITY BLVD ROUNDABOUT PROJECT IR-00 IRRIGATION COVER SHEET
CITY OF ROSEVILLE, PLACER COUNTY, CALIFORNIA
KIMLEY-HORN & ASSOCIATES, INC.
555 CAPITOL MALL, SUITE 600, SACRAMENTO, CA 95814
WWW.KIMLEY-HORN.COM

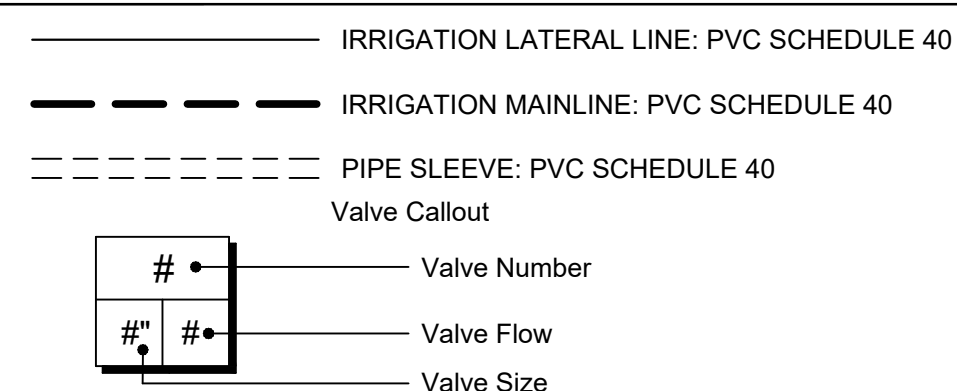
811 Know what's below. Call before you dig.
ALL CITY-MAINTAINED LANDSCAPES SHALL BE CONSTRUCTED ACCORDING TO CITY OF ROSEVILLE PARKS CONSTRUCTION STANDARDS, LATEST EDITION.

**IRRIGATION SCHEDULE**

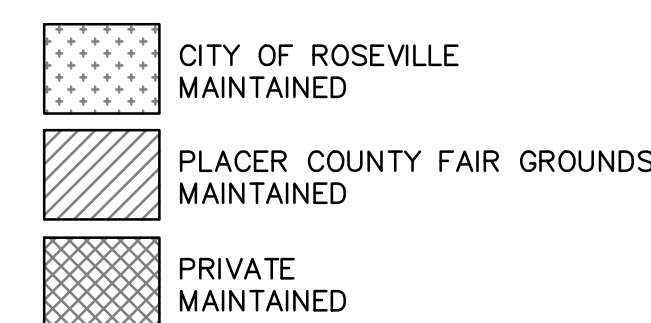
SYMBOL	MANUFACTURER/MODEL
	RAIN BIRD R-VAN18 1806-SAM-P45
	RAIN BIRD R-VAN14 1812-SAM-P45
	RAIN BIRD R-VAN24 1812-SAM-P45
	RAIN BIRD RWS-B-C 1401

SYMBOL	MANUFACTURER/MODEL
	RAIN BIRD XCZ-100-PRB-COM
	RAIN BIRD XCZ-150-PRB-COM
	NETAFIM TL5OV
	NETAFIM 65ARIA100
	DRIP OPERATION INDICATOR
	AREA TO RECEIVE DRIPLINE NETAFIM TLHCVXR-CS-053-18

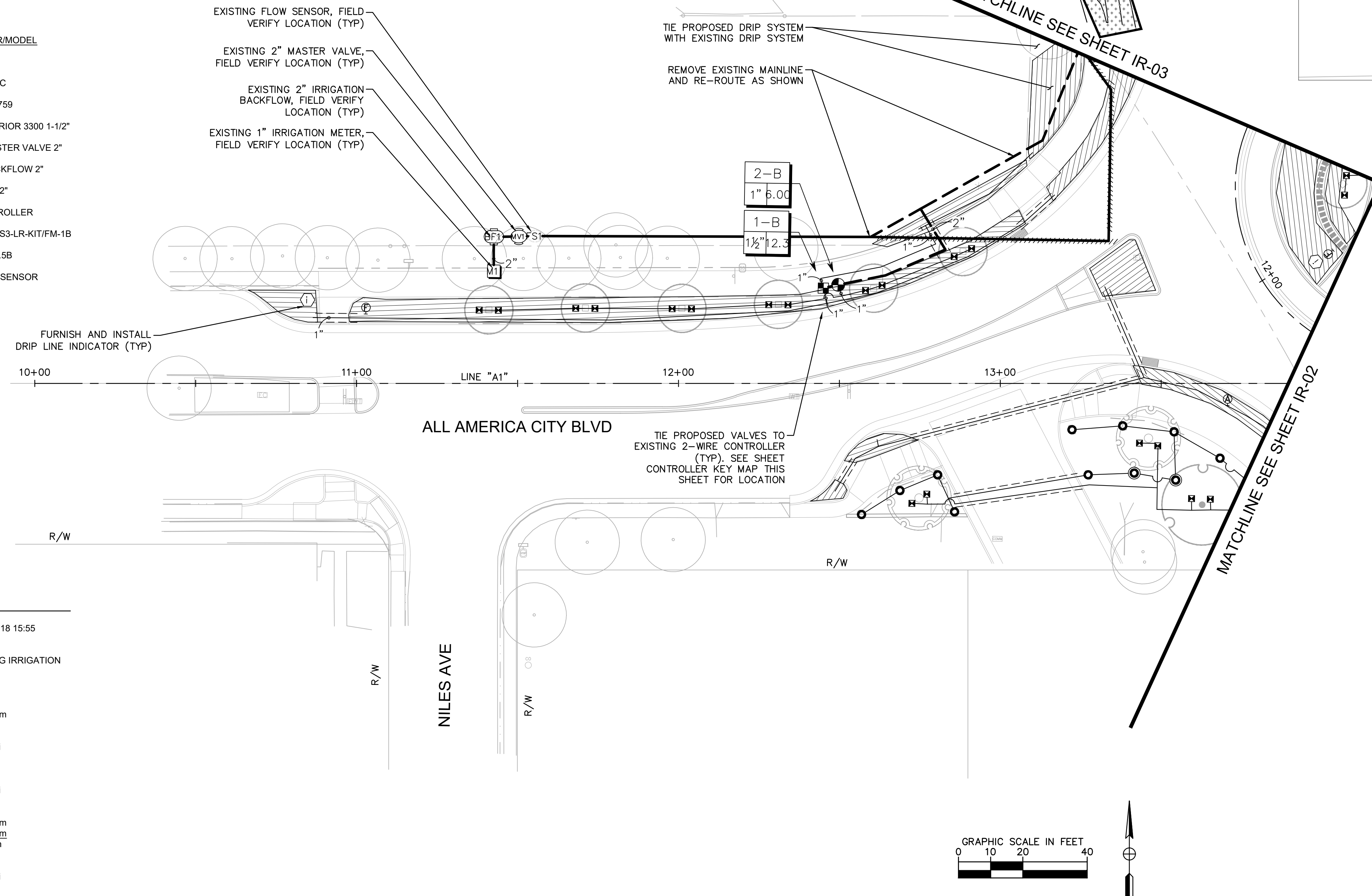
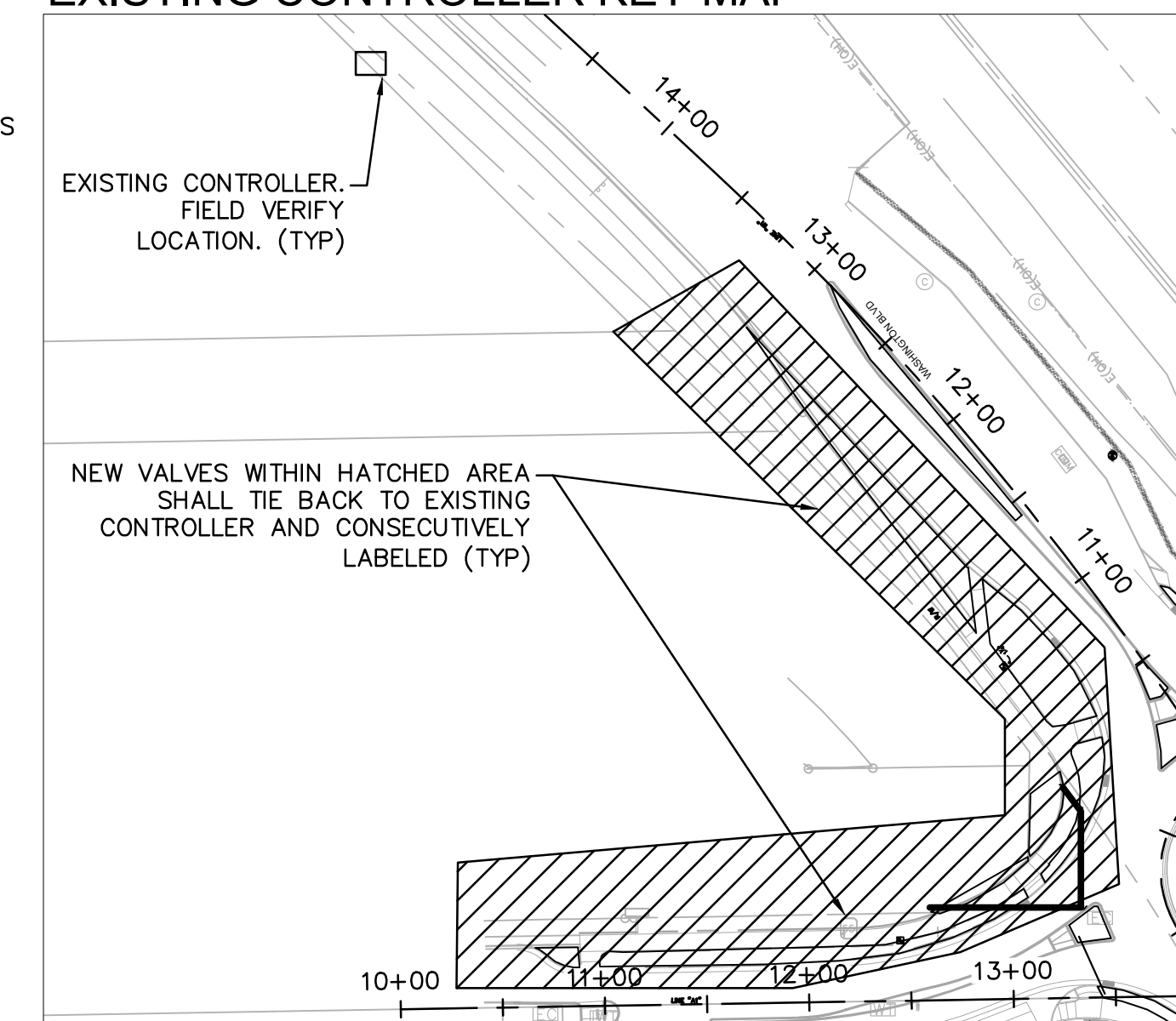
SYMBOL	MANUFACTURER/MODEL
	RAIN BIRD PEB
	RAIN BIRD 44-LRC
	MATCO-NORCA 759
	BUCKNER-SUPERIOR 3300 1-1/2"
	EXISTING 2" MASTER VALVE 2"
	EXISTING 2" BACKFLOW 2"
	FEBCO 825Y 1-1/2"
	EXISTING CONTROLLER
	"A" CS3-HUB-S/CS3-LR-KIT/FM-1B
	CALSENSE FM-1.5B
	EXISTING FLOW SENSOR



**MAINTENANCE RESPONSIBILITY MAP**



**EXISTING CONTROLLER KEY MAP**

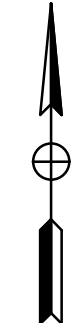
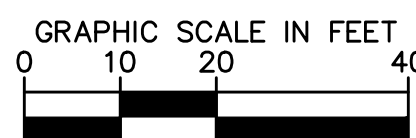


**IRRIGATION NOTES - TYPICAL FOR ALL LOCATIONS**

- ALL MAINLINES, WIRES, AND/OR LATERAL LINE SLEEVES TO BE 30" DEEP. UNDER NO CIRCUMSTANCES SHALL NEW IRRIGATION LINES AND WIRE BE INSTALLED UNDER HARDSCAPE WITHOUT A SLEEVE. ALL SLEEVES SHALL BE TWO (2) TIMES THE SIZE OF THE PIPE(S) IT CARRIES. BACKFILL WITH CLEAN NATIVE SOIL COMPACTED TO 90%. SEE LEGEND FOR SLEEVES.
- MAINLINES SHOWN IN HARDSCAPE FOR GRAPHIC CLARITY ONLY. INSTALL ALL MAINLINES AND CONTROL WIRES IN PLANTING AREAS. IF SHOWN IN HARDSCAPE, INSTALL IN PLANTING AREA DIRECTLY ADJACENT.
- LATERAL LINE SHOWN IN HARDSCAPE FOR CLARITY ONLY. INSTALL LATERAL LINES IN PLANTING AREAS. IF SHOWN IN HARDSCAPE, INSTALL IN PLANTING AREA DIRECTLY ADJACENT.
- INSTALL NEW ELECTRIC CONTROL VALVES IN ADJACENT PLANTER. REFER TO IRRIGATION LEGEND FOR MAKE AND MODEL. WIRE TO NEW CONTROLLER, STATION NUMBER AS IDENTIFIED IN THE VALVE CALL-OUT, WITH NEW CONTROL WIRES INSTALLED AND WATERPROOF CONNECTORS AS PART OF THIS WORK.
- INSTALL NEW QUICK COUPLERS IN ADJACENT PLANTER. REFER TO IRRIGATION LEGEND FOR MAKE AND MODEL. LOCATE QUICK COUPLERS SO THEY ARE EASILY ACCESSIBLE FROM ADJACENT HARDSCAPE.
- INSTALL NEW BALL VALVES IN ADJACENT PLANTING AREA. LIGHT POLES AND OTHER FIXED VERTICAL OBJECTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS FOR REFERENCE ONLY. CONTRACTORS SHALL ADJUST IRRIGATION TO ACCOMMODATE IN THE FIELD, PROVIDING 100% COVERAGE WITH NO OVER-SPRAY.
- INSTALL SUPPLEMENTAL TREE BUBBLERS (TWO PER TREE). INSTALL PER LEGEND AND DETAILS. LOCATE ON SEPARATE VALVES FROM ALL OTHER IRRIGATION DEVICES.
- LOCATE MANUAL FLUSH VALVES IN PLANTER AREAS AND IN THE LOWEST ELEVATION POINT OF THE DRIP ZONE.
- HATCHED AREAS REPRESENT SUB-SURFACE DRIP LINE IRRIGATION. INSTALL PER DETAILS AND MANUFACTURERS RECOMMENDATION.
- PROVIDE 12" MINIMUM CLEARANCE BETWEEN ALL OVERHEAD IRRIGATION SPRINKLERS AND THE PERIMETER HARDSCAPE.
- THE CONTRACTOR SHALL ADJUST, RELOCATE, SALVAGE, REINSTALL AND/OR FURNISH AND INSTALL NEW IRRIGATION COMPONENTS IN LIKE KIND FOR ANY ADJACENT EXISTING IRRIGATION SYSTEM(S) IMPACTED BY THESE IMPROVEMENTS AND ENSURE THAT THEY ARE IN FULL WORKING ORDER PRIOR TO PROJECT COMPLETION. ANY IRRIGATION THAT IS REMOVED DURING THE CONSTRUCTION PROCESS SHALL BE CAPPED IN A MANNER THAT THE REMAINING PORTIONS OF THE SYSTEM ARE NOT COMPROMISED. EXISTING IRRIGATION LATERAL LINES, HEADS, WIRING AND ALL OTHER ASSOCIATED EQUIPMENT IMPACTED BY THE PROJECT CONSTRUCTION SHALL BE CAREFULLY CUT, CAPPED AND RELOCATED TO EXISTING LANDSCAPE AREAS. PRIOR TO COMPLETION, CONTRACTOR SHALL ENSURE THAT ALL EXISTING IRRIGATION SYSTEMS IMPACTED ARE IN FULL WORKING ORDER WITH COMPLETE HEAD TO HEAD COVERAGE INCLUDING NO OVERSPRAY ONTO HARDSCAPE SURFACES OR WALLS. ANY IRRIGATION EQUIPMENT DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN LIKE KIND BY THE CONTRACTOR

**CRITICAL ANALYSIS**

Generated:	2020-11-18 15:55
P.O.C. NUMBER:	01
Water Source Information:	EXISTING IRRIGATION METER - FIELD VERIFY LOCATION
FLOW AVAILABLE	
Water Meter Size:	1"
Flow Available:	37.50 gpm
PRESSURE AVAILABLE	
Static Pressure at POC:	70.00 psi
Elevation Change:	0.00 ft
Service Line Size:	N/A
Length of Service Line:	0.00 ft
Pressure Available:	70.00 psi
DESIGN ANALYSIS	
Maximum Multi-valve Flow:	37.50 gpm
Flow Available at POC:	37.50 gpm
Residual Flow Available:	0.00 gpm
Critical Station:	4-1
Design Pressure:	30.00 psi
Friction Loss:	0.05 psi
Fittings Loss:	0.00 psi
Elevation Loss:	0.00 psi
Loss through Valve:	1.60 psi
Pressure Req. at Critical Station:	31.64 psi
Loss for Fittings:	0.23 psi
Loss for Main Line:	2.27 psi
Loss for POC to Valve Elevation:	0.00 psi
Loss for Backflow:	11.96 psi
Loss for Master Valve:	0.80 psi
Loss for Water Meter:	8.48 psi
Critical Station Pressure at POC:	55.38 psi
Pressure Available:	70.00 psi
Residual Pressure Available:	14.62 psi



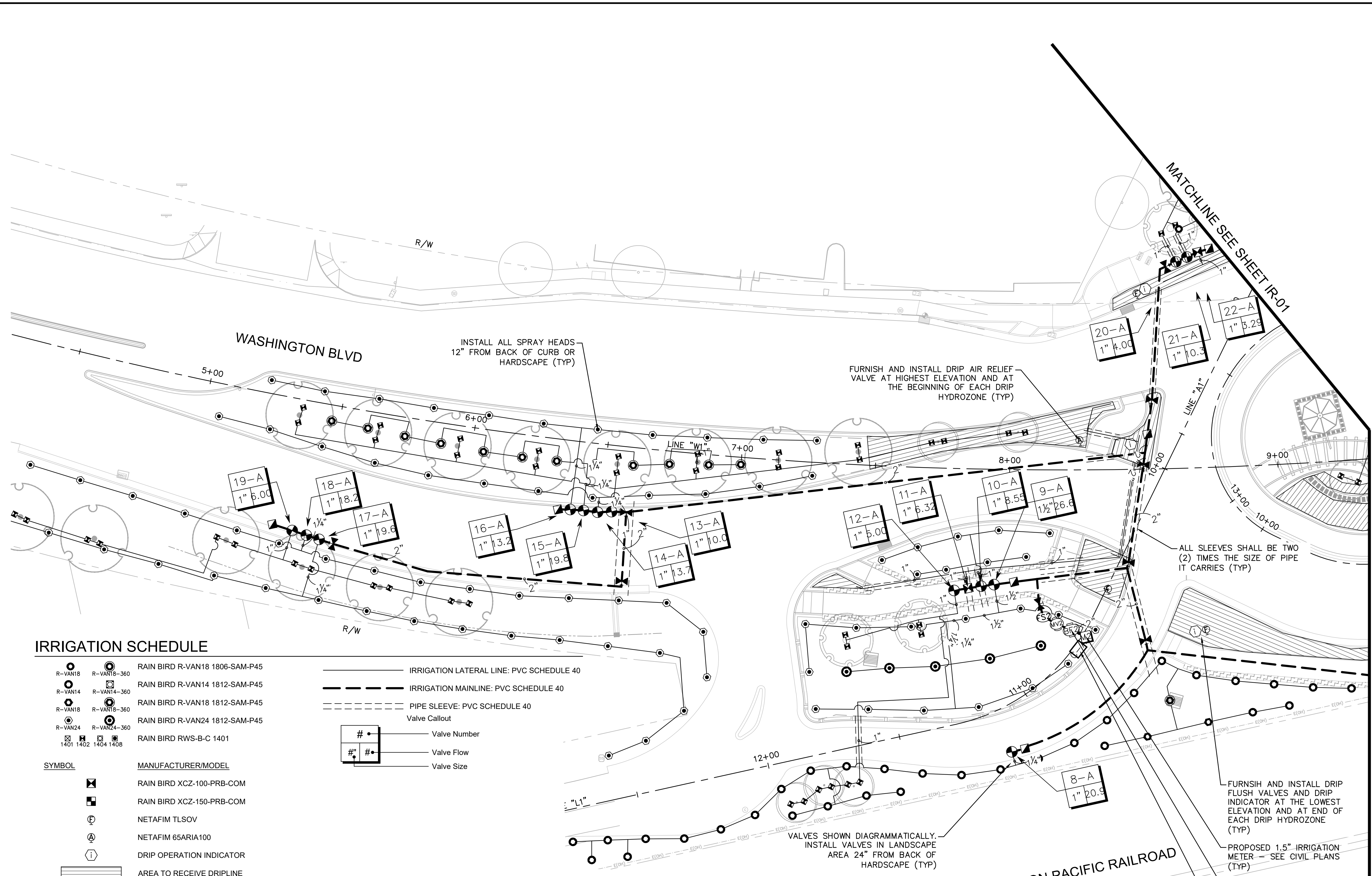
ALL CITY-MAINTAINED LANDSCAPES SHALL BE CONSTRUCTED ACCORDING TO CITY OF ROSEVILLE PARKS CONSTRUCTION STANDARDS, LATEST EDITION.



Know what's below. Call before you dig.

<p>555 CAPITOL MALL, SUITE 300, SACRAMENTO, CA 95814 WWW.KIMLEY-HORN.COM</p>		NO.	REVISIONS	DATE	BY
<p>K:\SAC\PTO\ROSEVILLE\WASHINGTON @ ALL AMERICA RAB - 097918026\08_CADD\PLANSHEETS\IR-01_IRRIGATION_PLANS.DWG</p> <p>This document, together with the concepts and designs presented herein, is an instrument of service, intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.</p>		<p>KHA PROJECT: 097918026</p> <p>DATE: JUNE 2021</p> <p>SCALE: AS SHOWN</p> <p>DESIGNED BY: [Signature]</p> <p>DRAWN BY: [Signature]</p> <p>CHECKED BY: [Signature]</p>		<p>WASHINGTON BLVD AT ALL AMERICA CITY BLVD ROUNDABOUT PROJECT</p> <p>IR-01</p> <p>IRRIGATION PLANS</p> <p>CITY OF ROSEVILLE, PLACER COUNTY, CALIFORNIA</p>	
<p>SHEET NUMBER</p> <p>52 OF 60</p>		<p>811</p>			

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**IRRIGATION SCHEDULE**

●	R-VAN18	RAIN BIRD R-VAN18 1806-SAM-P45
●	R-VAN14	RAIN BIRD R-VAN14 1812-SAM-P45
●	R-VAN18	RAIN BIRD R-VAN18 1812-SAM-P45
●	R-VAN24	RAIN BIRD R-VAN24 1812-SAM-P45
●	1401 1402 1404 1408	RAIN BIRD RWS-B-C 1401
⊗		RAIN BIRD XCZ-100-PRB-COM
⊗		RAIN BIRD XCZ-150-PRB-COM
⊙		NETAFIM TL5OV
⊙		NETAFIM 65ARIA100
⊙		DRIP OPERATION INDICATOR
▨		AREA TO RECEIVE DRIP LINE
▨		NETAFIM TLHCVXR-CS-053-18

●	RAIN BIRD PEB
■	RAIN BIRD 44-LRC
⊗	MATCO-NORCA 759
⊙	BUCKNER-SUPERIOR 3300 1-1/2"
⊙	EXISTING 2" MASTER FLOW 2"
⊙	EXISTING 2" BACKFLOW 2"
⊙	FEBCO 825Y 1-1/2"
⊙	EXISTING CONTROLLER
⊙	"A" CS3-HUB-S/CS3-LR-KIT/FM-1B
⊙	CALSENSE FM-1.5B
⊙	EXISTING FLOW SENSOR

—	IRRIGATION LATERAL LINE: PVC SCHEDULE 40
---	IRRIGATION MAINLINE: PVC SCHEDULE 40
- - -	PIPE SLEEVE: PVC SCHEDULE 40
○	Valve Callout
#	Valve Number
#	Valve Flow
#	Valve Size

**IRRIGATION MAINTENANCE SCHEDULE:**

THE IRRIGATION MAINTENANCE SCHEDULE TASKS LISTED BELOW ARE INTENDED AS A MINIMUM STANDARDS AND MORE FREQUENT ATTENTION MAY BE REQUIRED DEPENDING ON THE PARTICULAR SITE CONDITIONS. MAINTENANCE SHALL BE DONE TO ENSURE WATER EFFICIENCY. REPAIR OF IRRIGATION EQUIPMENT SHALL BE DONE WITH THE ORIGINALLY SPECIFIED MATERIALS OR APPROVED EQUIVALENTS.

**FREQUENCY - QUARTERLY**  
TASK - CONTROLLER CABINET : OPEN CABINET AND CLEAN OUT DEBRIS AND REPLACE BATTERY AS NECESSARY. CHECK WIRING AND REPAIR AS NEEDED AND CHECK CLOCK AND RESET IF NECESSARY.

**FREQUENCY - MONTHLY**  
TASK - IRRIGATION SCHEDULE. ADJUST SCHEDULE FOR SEASONAL VARIATIONS AND OTHER CONDITIONS WHICH MAY AFFECT THE AMOUNT OF WATER NEEDED TO MAINTAIN PLANT HEALTH. ADJUST AS NECESSARY.

**FREQUENCY - QUARTERLY**  
TASK - POC: VISUALLY INSPECT COMPONENTS FOR LEAKS, PRESSURE SETTINGS, SETTLEMENT OR OTHER DAMAGE AFFECTING THE OPERATION OF A COMPONENT. REPAIR AS NEEDED.

**FREQUENCY - QUARTERLY**  
TASK - REMOTE CONTROL VALVES : ISOLATION VALVES AND QUICK COUPLER VALVES: VISUALLY INSPECT FOR LEAKS, SETTLEMENTS, WIRE CONNECTIONS AND PRESSURE SETTINGS. REPAIR AS NEEDED.

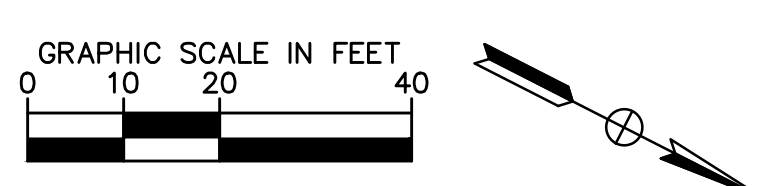
**FREQUENCY - QUARTERLY**  
TASK - MAINLINE AND LATERALS: VISUALLY INSPECT FOR LEAKS OR SETTLEMENTS OF TRENCH.

**FREQUENCY - WEEKLY**  
TASK - FILTERS AND STRAINERS - VISUALLY CHECK FOR ANY BROKEN MALIGNED OR CLOGGED HEADS, HEADS WITH INCORRECT ARC, INADEQUATE COVERAGE OR OVERSPRAY AND LOW HEAD DRAINAGE. REPAIR AS NEEDED.

**FREQUENCY - MONTHLY**  
TASK - FILTERS AND STRAINERS: VISUALLY CHECK FOR LEAKS, BROKEN FITTINGS. CLEAN AND FLUSH SCREENS.

**IRRIGATION NOTES - TYPICAL FOR ALL LOCATIONS**

- ALL MAINLINES, WIRES, AND/OR LATERAL LINE SLEEVES TO BE 30" DEEP. UNDER NO CIRCUMSTANCES SHALL NEW IRRIGATION LINES AND WIRE BE INSTALLED UNDER HARDSCAPE WITHOUT A SLEEVE. ALL SLEEVES SHALL BE TWO (2) TIMES THE SIZE OF THE PIPE(S) IT CARRIES. BACKFILL WITH CLEAN NATIVE SOIL COMPACTED TO 90%. SEE LEGEND FOR SLEEVES.
- MAINLINES SHOWN IN HARDSCAPE FOR GRAPHIC CLARITY ONLY. INSTALL ALL MAINLINES AND CONTROL WIRES IN PLANTING AREAS. IF SHOWN IN HARDSCAPE, INSTALL IN PLANTING AREA DIRECTLY ADJACENT.
- LATERAL LINE SHOWN IN HARDSCAPE FOR CLARITY ONLY. INSTALL LATERAL LINES IN PLANTING AREAS. IF SHOWN IN HARDSCAPE, INSTALL IN PLANTING AREA DIRECTLY ADJACENT.
- INSTALL NEW ELECTRIC CONTROL VALVES IN ADJACENT PLANTER. REFER TO IRRIGATION LEGEND FOR MAKE AND MODEL. WIRE TO NEW CONTROLLER, STATION NUMBER AS IDENTIFIED IN THE VALVE CALL-OUT. WITH NEW CONTROL WIRES INSTALLED AND WATERPROOF CONNECTORS AS PART OF THIS WORK.
- INSTALL NEW QUICK COUPLERS IN ADJACENT PLANTER. REFER TO IRRIGATION LEGEND FOR MAKE AND MODEL. LOCATE QUICK COUPLERS SO THEY ARE EASILY ACCESSIBLE FROM ADJACENT HARDSCAPE.
- INSTALL NEW BALL VALVES IN ADJACENT PLANTING AREA.
- LIGHT POLES AND OTHER FIXED VERTICAL OBJECTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS FOR REFERENCE ONLY. CONTRACTORS SHALL ADJUST IRRIGATION TO ACCOMMODATE IN THE FIELD, PROVIDING 100% COVERAGE WITH NO OVER-SPRAY.
- INSTALL SUPPLEMENTAL TREE BUBBLERS (TWO PER TREE). INSTALL PER LEGEND AND DETAILS. LOCATE ON SEPARATE VALVES FROM ALL OTHER IRRIGATION DEVICES.
- LOCATE MANUAL FLUSH VALVES IN PLANTER AREAS AND IN THE LOWEST ELEVATION POINT OF THE DRIP ZONE.
- HATCHED AREAS REPRESENT SUB-SURFACE DRIP LINE IRRIGATION. INSTALL PER DETAILS AND MANUFACTURERS RECOMMENDATION.
- PROVIDE 12" MINIMUM CLEARANCE BETWEEN ALL OVERHEAD IRRIGATION SPRINKLERS AND THE PERIMETER HARDSCAPE.
- THE CONTRACTOR SHALL ADJUST, RELOCATE, SALVAGE, REINSTALL AND/OR FURNISH AND INSTALL NEW IRRIGATION COMPONENTS IN LIKE KIND FOR ANY ADJACENT EXISTING IRRIGATION SYSTEM(S) IMPACTED BY THESE IMPROVEMENTS AND ENSURE THAT THEY ARE IN FULL WORKING ORDER PRIOR TO PROJECT COMPLETION. ANY IRRIGATION THAT IS REMOVED DURING THE CONSTRUCTION PROCESS SHALL BE CAPPED IN A MANNER THAT THE REMAINING PORTIONS OF THE SYSTEM ARE NOT COMPROMISED. EXISTING IRRIGATION LATERAL LINES, HEADS, WIRING AND ALL OTHER ASSOCIATED EQUIPMENT IMPACTED BY THE PROJECT CONSTRUCTION SHALL BE CAREFULLY CUT, CAPPED AND RELOCATED TO EXISTING LANDSCAPE AREAS. PRIOR TO COMPLETION, CONTRACTOR SHALL ENSURE THAT ALL EXISTING IRRIGATION SYSTEMS IMPACTED ARE IN FULL WORKING ORDER WITH COMPLETE HEAD TO HEAD COVERAGE INCLUDING NO OVERSPRAY ONTO HARDSCAPE SURFACES OR WALLS. ANY IRRIGATION EQUIPMENT DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN LIKE KIND BY THE CONTRACTOR



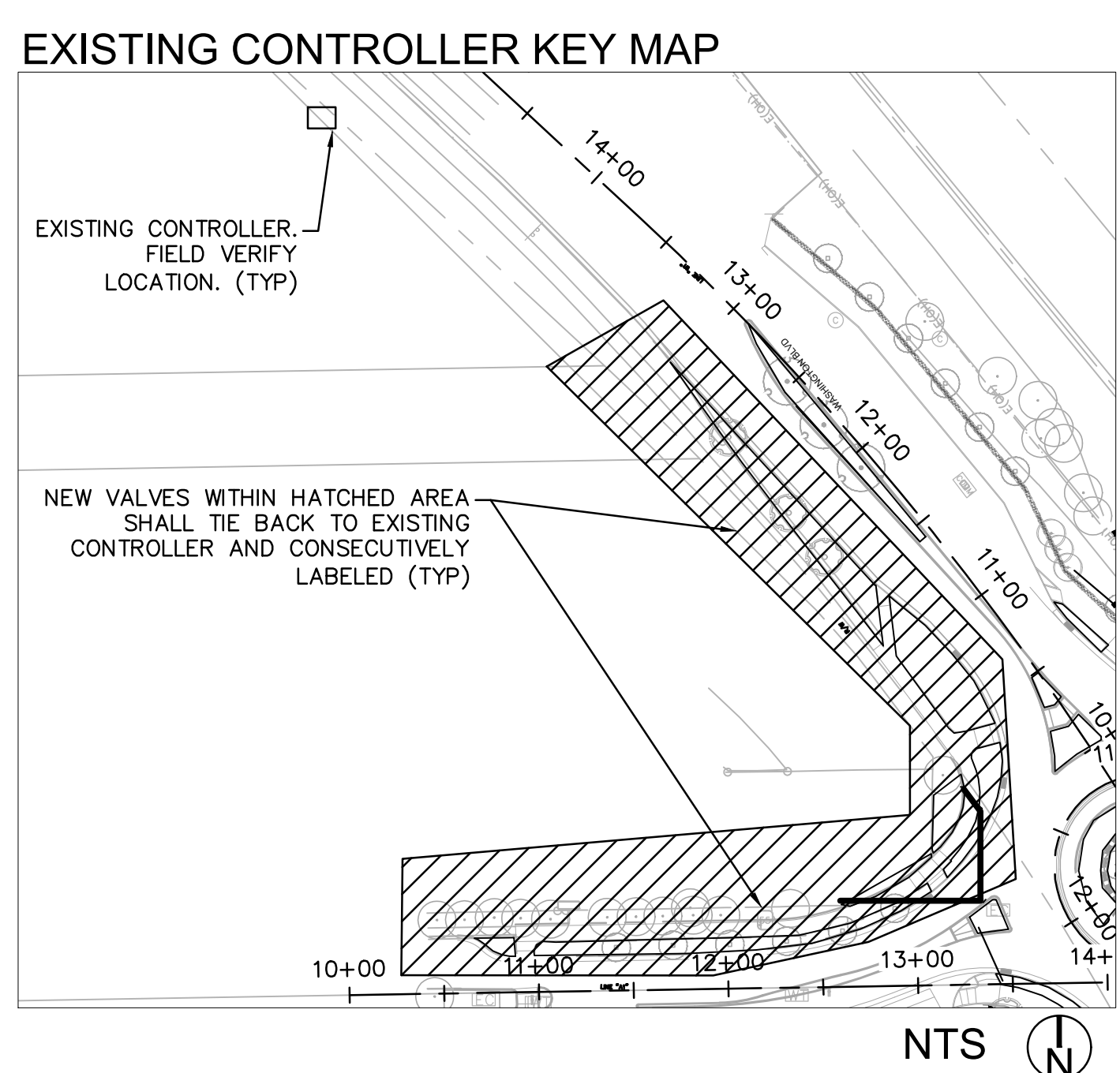
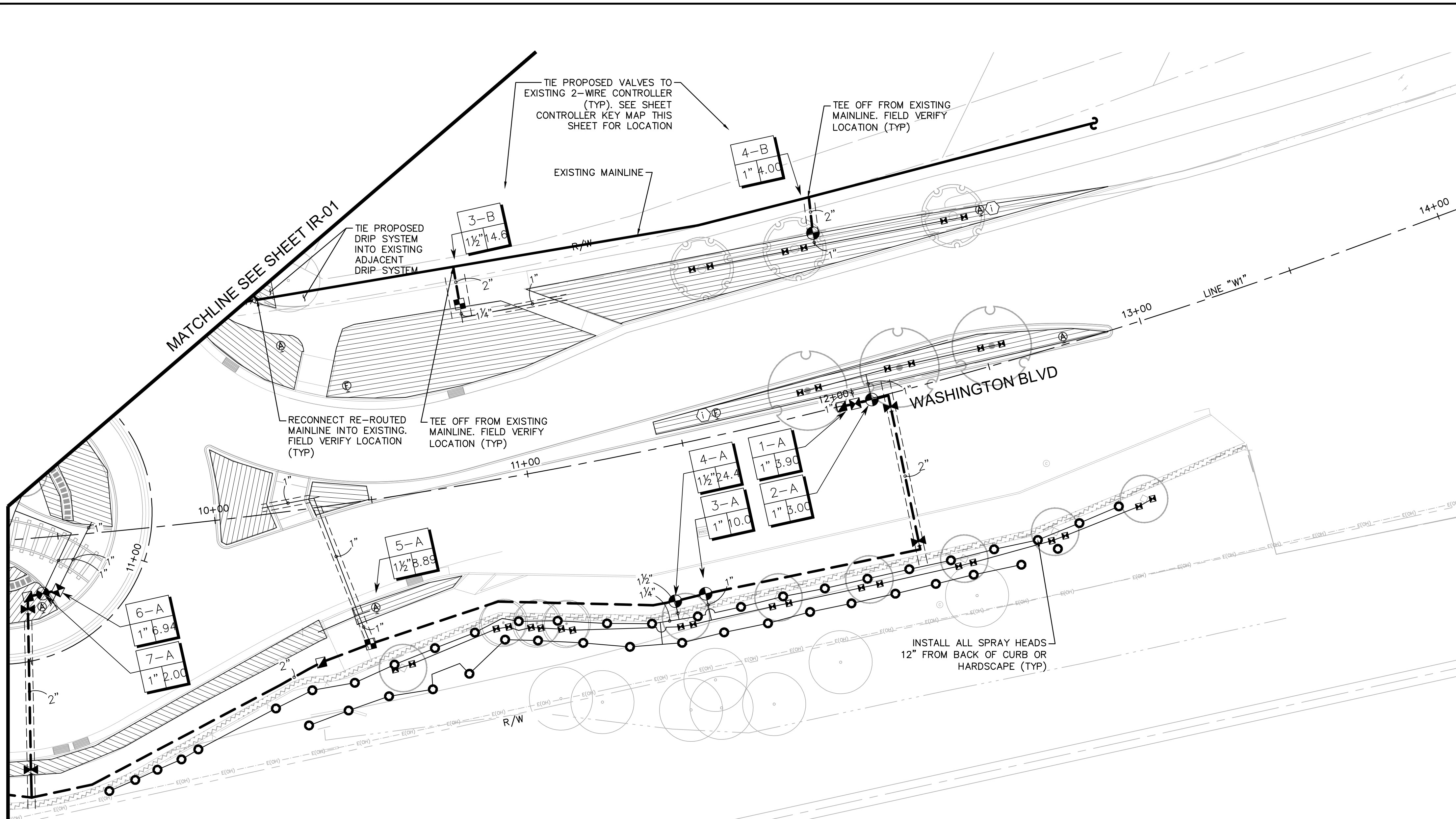
ALL CITY-MAINTAINED LANDSCAPES SHALL BE CONSTRUCTED ACCORDING TO CITY OF ROSEVILLE PARKS CONSTRUCTION STANDARDS, LATEST EDITION.



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		REVISIONS	
<p>WASHINGTON BLVD AT ALL AMERICA CITY BLVD ROUNDABOUT PROJECT</p>		<p>IR-02 IRRIGATION PLANS</p>	
<p>CITY OF ROSEVILLE, PLACER COUNTY, CALIFORNIA</p>		<p>SHEET NUMBER 53 OF 60</p>	

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MATCHLINE SEE SHEET IR-02



- IRRIGATION NOTES - TYPICAL FOR ALL LOCATIONS**
- ALL MAINLINES, WIRES, AND/OR LATERAL LINE SLEEVES TO BE 30" DEEP. UNDER NO CIRCUMSTANCES SHALL NEW IRRIGATION LINES AND WIRE BE INSTALLED UNDER HARDSCAPE WITHOUT A SLEEVE. ALL SLEEVES SHALL BE TWO (2) TIMES THE SIZE OF THE PIPE(S) IT CARRIES. BACKFILL WITH CLEAN NATIVE SOIL COMPACTED TO 90%. SEE LEGEND FOR SLEEVES. MAINLINES SHOWN IN HARDSCAPE FOR GRAPHIC CLARITY ONLY. INSTALL ALL MAINLINES AND CONTROL WIRES IN PLANTING AREAS. IF SHOWN IN HARDSCAPE, INSTALL IN PLANTING AREA DIRECTLY ADJACENT.
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  - INSTALL SUPPLEMENTAL TREE BUBBLERS (TWO PER TREE). INSTALL PER LEGEND AND DETAILS. LOCATE ON SEPARATE VALVES FROM ALL OTHER IRRIGATION DEVICES.
  - LOCATE MANUAL FLUSH VALVES IN PLANTER AREAS AND IN THE LOWEST ELEVATION POINT OF THE DRIP ZONE.
  - HATCHED AREAS REPRESENT SUB-SURFACE DRIP LINE IRRIGATION. INSTALL PER DETAILS AND MANUFACTURERS RECOMMENDATION.
  - PROVIDE 12" MINIMUM CLEARANCE BETWEEN ALL OVERHEAD IRRIGATION SPRINKLERS AND THE PERIMETER HARDSCAPE. THE CONTRACTOR SHALL ADJUST, RELOCATE, SALVAGE, REINSTALL AND/OR FURNISH AND INSTALL NEW IRRIGATION COMPONENTS IN LIKE KIND FOR ANY ADJACENT EXISTING IRRIGATION SYSTEM(S) IMPACTED BY THESE IMPROVEMENTS AND ENSURE THAT THEY ARE IN FULL WORKING ORDER PRIOR TO PROJECT COMPLETION. ANY IRRIGATION THAT IS REMOVED DURING THE CONSTRUCTION PROCESS SHALL BE CAPPED IN A MANNER THAT THE REMAINING PORTIONS OF THE SYSTEM ARE NOT COMPROMISED. EXISTING IRRIGATION LATERAL LINES, HEADS, WIRING AND ALL OTHER ASSOCIATED EQUIPMENT IMPACTED BY THE PROJECT CONSTRUCTION SHALL BE CAREFULLY CUT, CAPPED AND RELOCATED TO EXISTING LANDSCAPE AREAS. PRIOR TO COMPLETION, CONTRACTOR SHALL ENSURE THAT ALL EXISTING IRRIGATION SYSTEMS IMPACTED ARE IN FULL WORKING ORDER WITH COMPLETE HEAD TO HEAD COVERAGE INCLUDING NO OVERSPRAY ONTO HARDSCAPE SURFACES OR WALLS. ANY IRRIGATION EQUIPMENT DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN LIKE KIND BY THE CONTRACTOR

**IRRIGATION SCHEDULE**

SYMBOL	MANUFACTURER/MODEL	DESCRIPTION
	RAIN BIRD R-VAN18 1806-SAM-P45	RAIN BIRD R-VAN18 1806-SAM-P45
	RAIN BIRD R-VAN14 1812-SAM-P45	RAIN BIRD R-VAN14 1812-SAM-P45
	RAIN BIRD R-VAN18 1812-SAM-P45	RAIN BIRD R-VAN18 1812-SAM-P45
	RAIN BIRD R-VAN24 1812-SAM-P45	RAIN BIRD R-VAN24 1812-SAM-P45
	RAIN BIRD RWS-B-C 1401	RAIN BIRD RWS-B-C 1401
	RAIN BIRD XZC-100-PRB-COM	RAIN BIRD XZC-100-PRB-COM
	RAIN BIRD XZC-150-PRB-COM	RAIN BIRD XZC-150-PRB-COM
	NETAFIM TLSOV	NETAFIM TLSOV
	NETAFIM 65ARIA100	NETAFIM 65ARIA100
	DRIP OPERATION INDICATOR	DRIP OPERATION INDICATOR
	AREA TO RECEIVE DRILINE NETAFIM TLHCVXR-CS-053-18	AREA TO RECEIVE DRILINE NETAFIM TLHCVXR-CS-053-18
	RAIN BIRD PEB	RAIN BIRD PEB
	RAIN BIRD 44-LRC	RAIN BIRD 44-LRC
	MATCO-NORCA 759	MATCO-NORCA 759
	BUCKNER-SUPERIOR 3300 1-1/2"	BUCKNER-SUPERIOR 3300 1-1/2"
	EXISTING 2" MASTER VALVE 2"	EXISTING 2" MASTER VALVE 2"
	EXISTING 2" BACKFLOW 2"	EXISTING 2" BACKFLOW 2"
	FEBCO 825Y 1-1/2"	FEBCO 825Y 1-1/2"
	EXISTING CONTROLLER	EXISTING CONTROLLER

**CRITICAL ANALYSIS**

P.O.C. NUMBER: 02  
 Water Source Information: NEW 1.5" METER - SEE CIVIL PLANS

<b>FLOW AVAILABLE</b>	1-1/2"
Water Meter Size:	75.00 gpm
Flow Available:	75.00 gpm

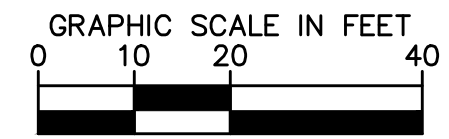
<b>PRESSURE AVAILABLE</b>	70.00 psi
Static Pressure at POC:	70.00 psi
Elevation Change:	5.00 ft
Service Line Size:	1-1/2"
Length of Service Line:	20.00 ft
Pressure Available:	68.00 psi

<b>DESIGN ANALYSIS</b>	37.50 gpm
Maximum Multi-valve Flow:	37.50 gpm
Flow Available at POC:	75.00 gpm
Residual Flow Available:	37.50 gpm

<b>Critical Station:</b>	17.2
Design Pressure:	30.00 psi
Friction Loss:	3.26 psi
Fittings Loss:	0.33 psi
Elevation Loss:	0.00 psi
Loss through Valve:	2.86 psi
Pressure Req. at Critical Station:	36.43 psi
Loss for Fittings:	0.80 psi
Loss for Main Line:	7.97 psi
Loss for POC to Valve Elevation:	0.00 psi
Loss for Backflow:	12.10 psi
Loss for Master Valve:	1.53 psi
Loss for Water Meter:	2.95 psi
Critical Station Pressure at POC:	61.78 psi
Pressure Available:	68.00 psi
Residual Pressure Available:	6.22 psi



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 PHONE: 916-856-5600  
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**WASHINGTON BLVD AT ALL AMERICA CITY  
 BLVD ROUNDABOUT PROJECT**

IR-03  
 IRRIGATION PLANS

CITY OF ROSEVILLE, PLACER COUNTY, CALIFORNIA

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KHA PROJECT: 097918026	DATE: JUNE 2021
SCALE: AS SHOWN	DESIGNED BY: [Signature]
	DRAWN BY: [Signature]
	CHECKED BY: [Signature]

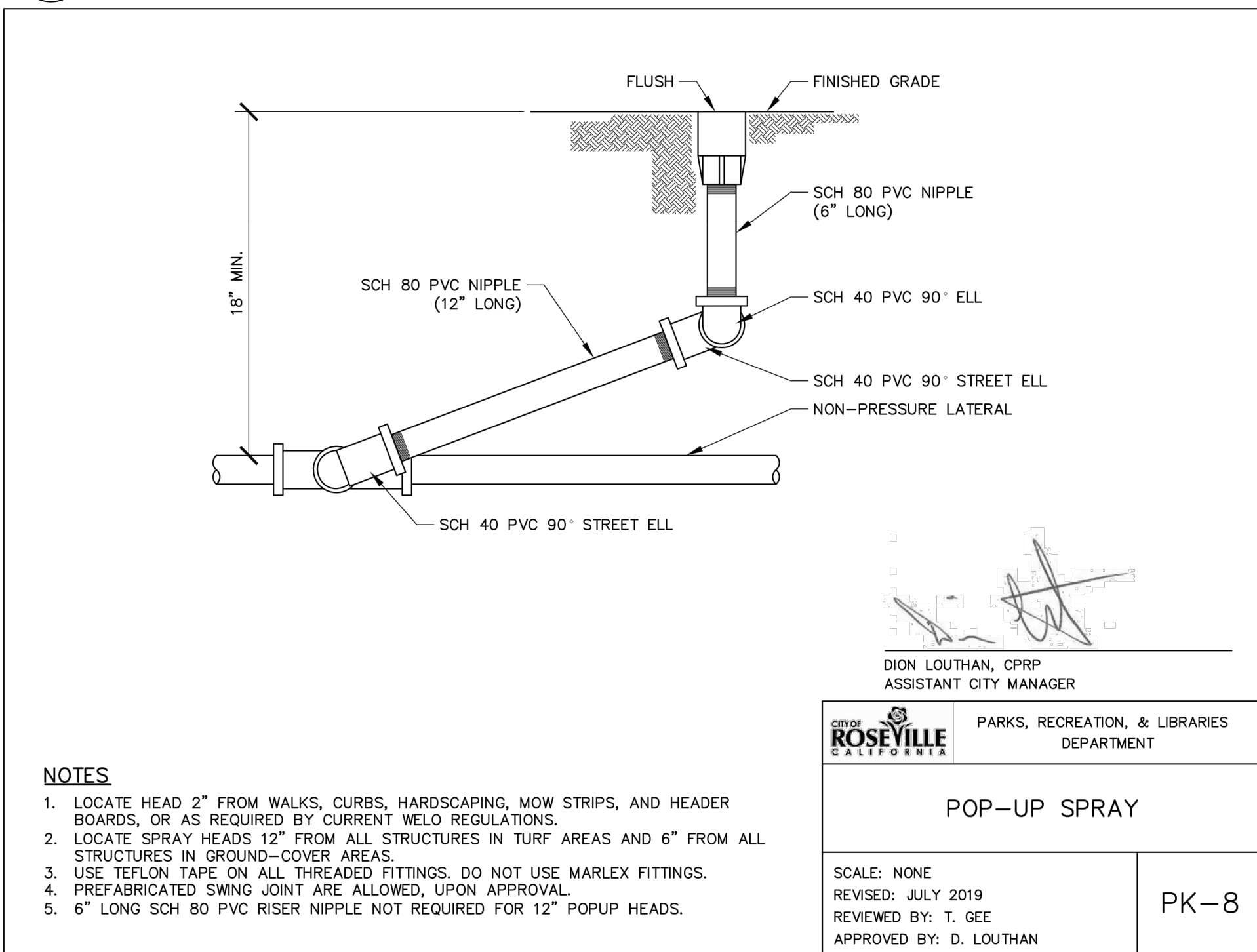
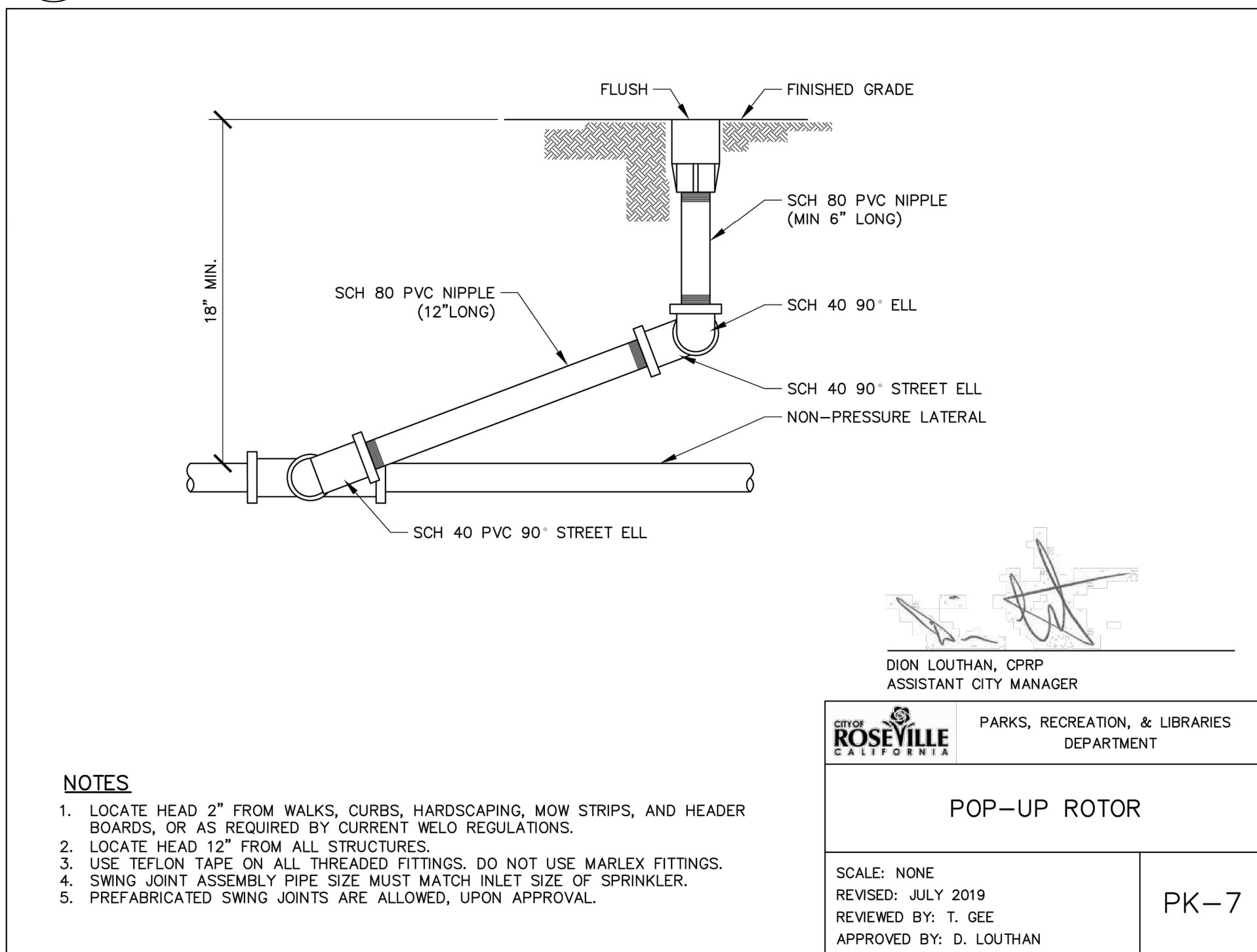
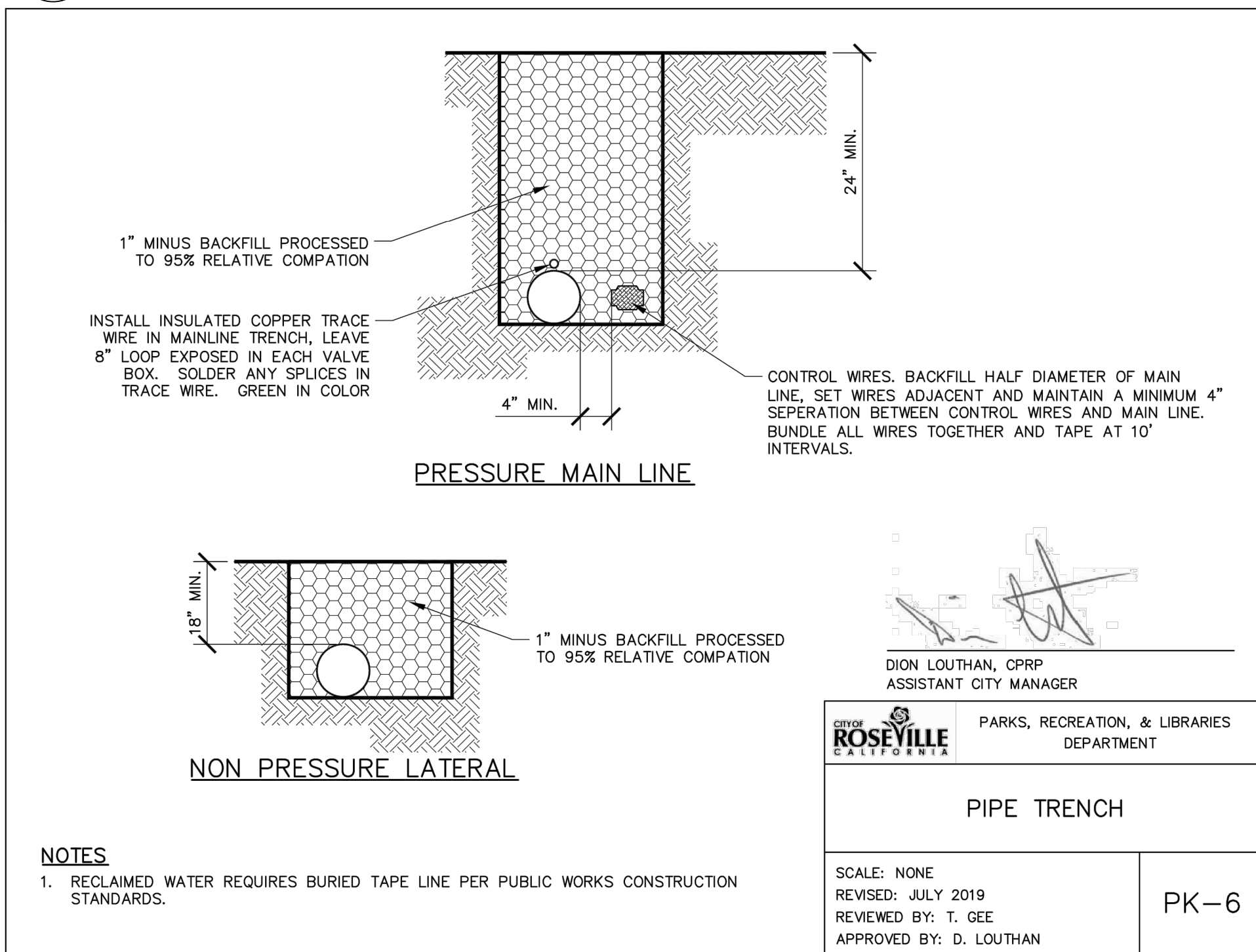
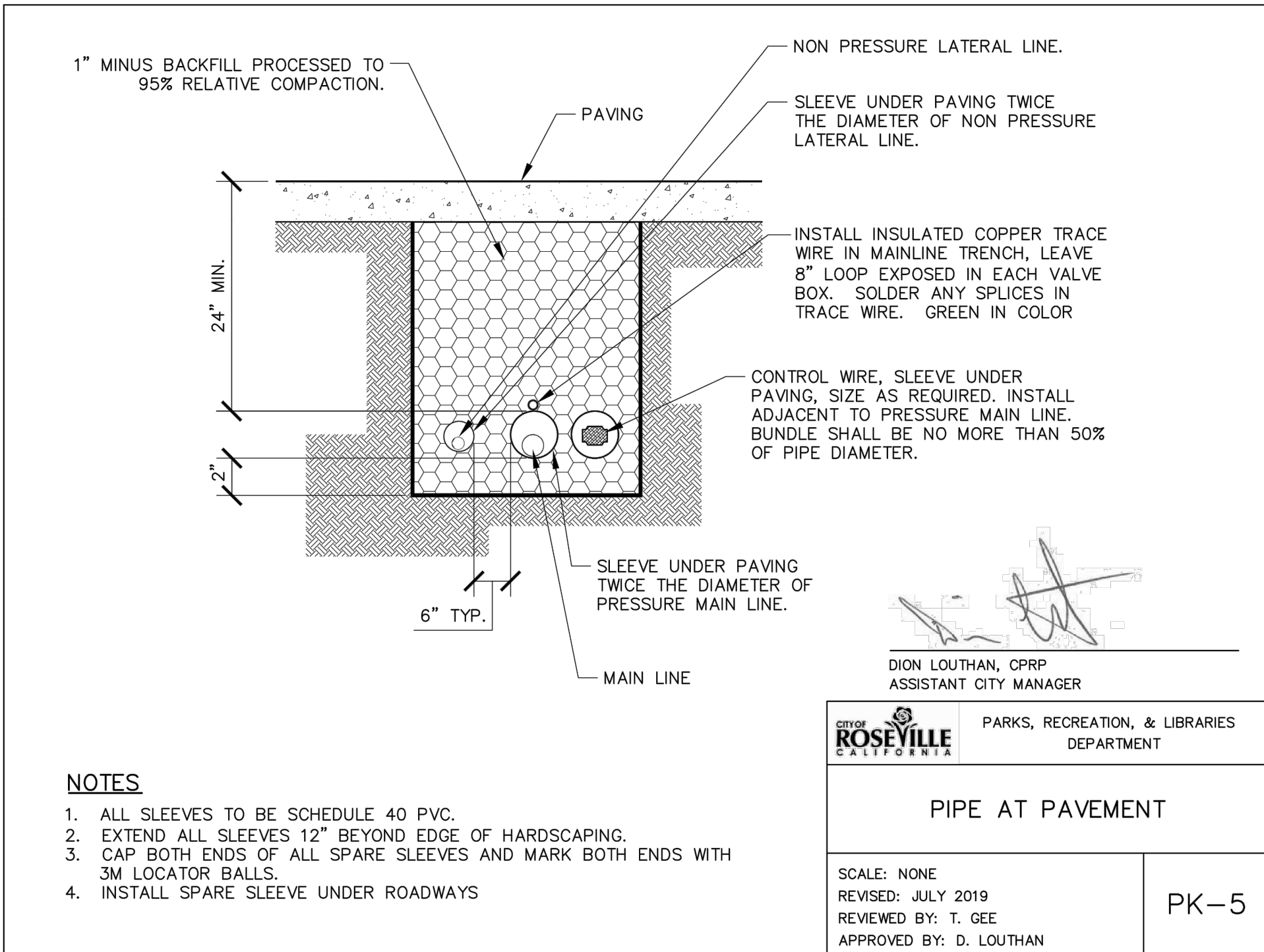
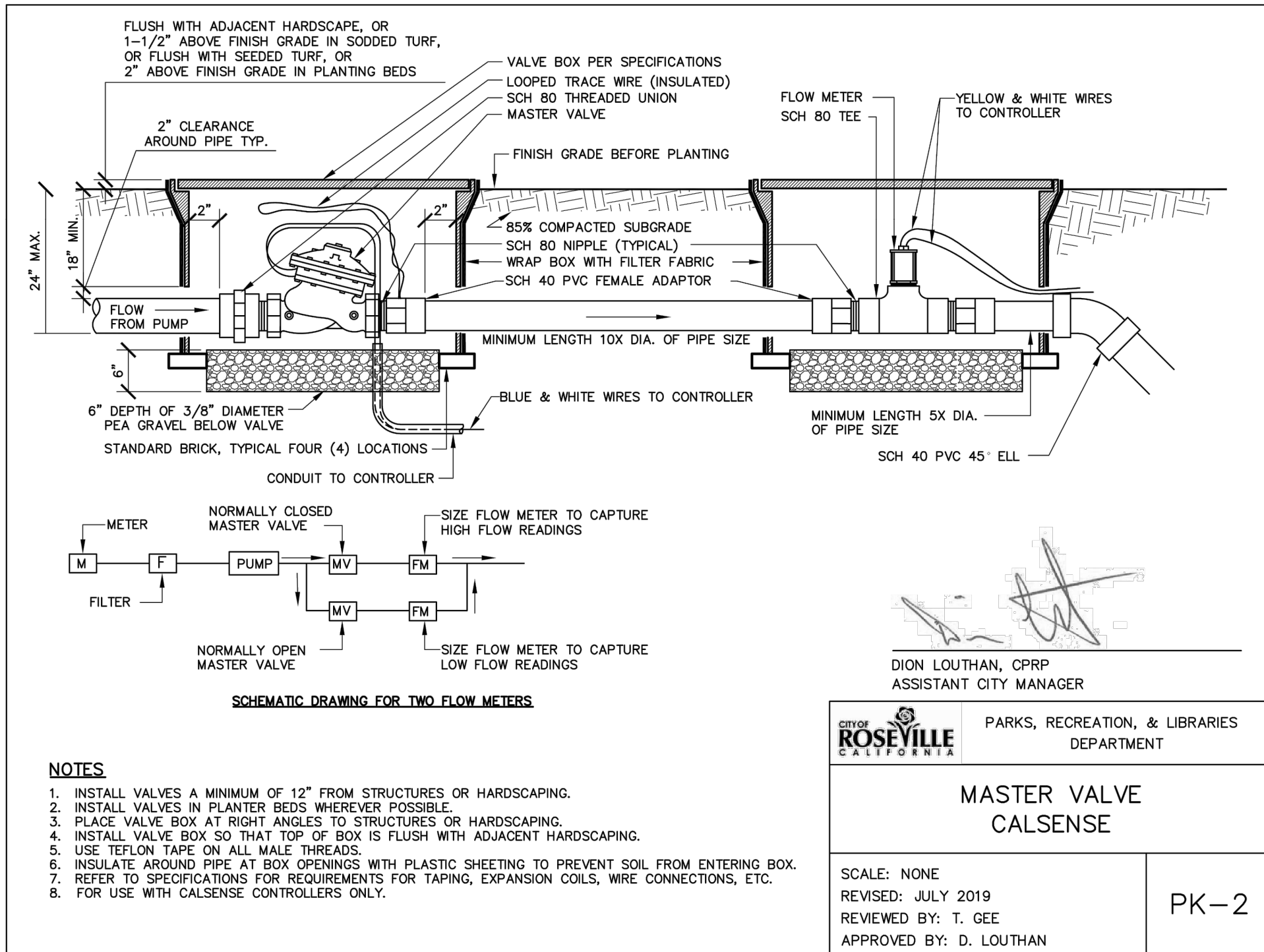
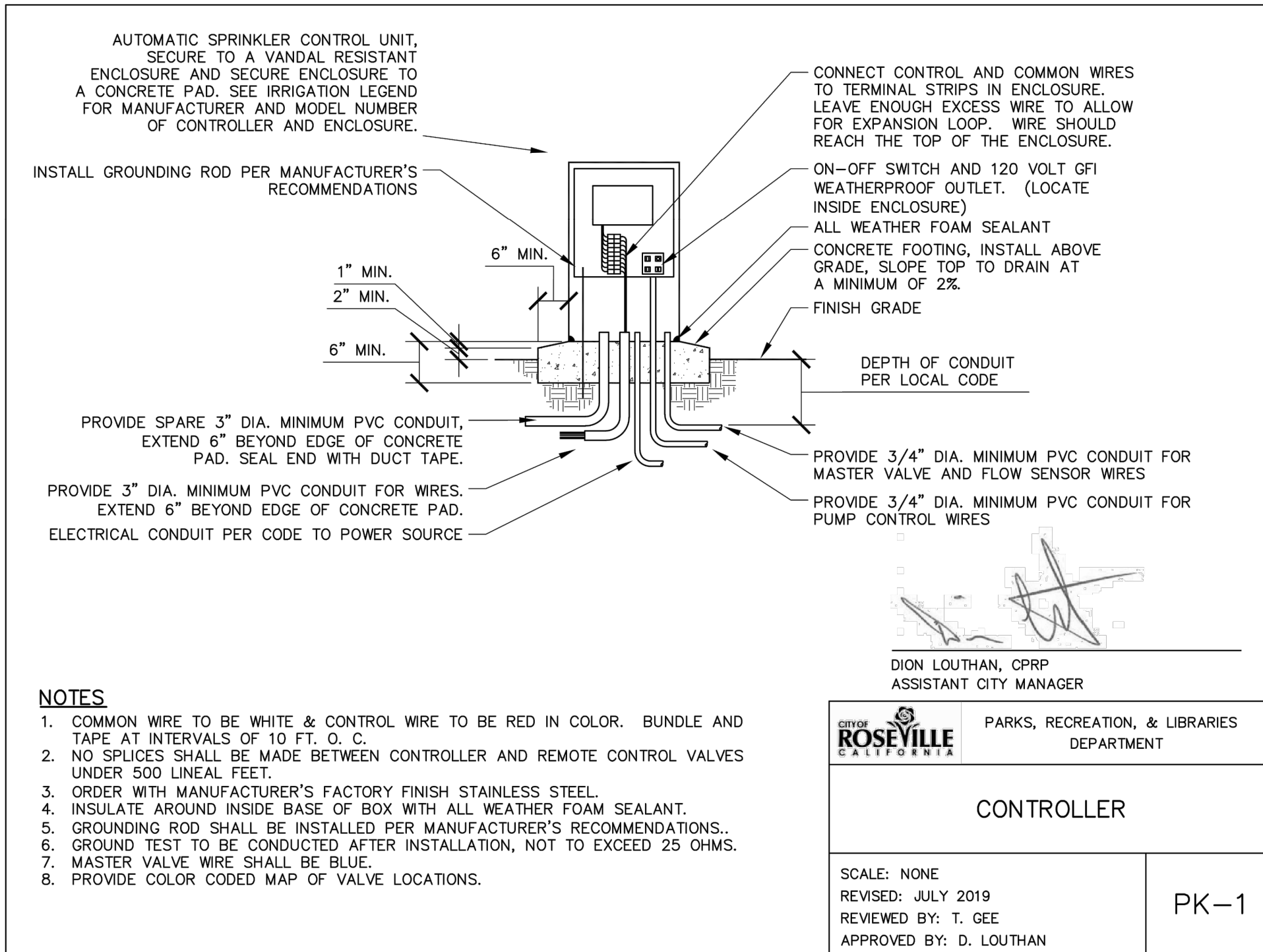
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NO.	REVISIONS	DATE	BY

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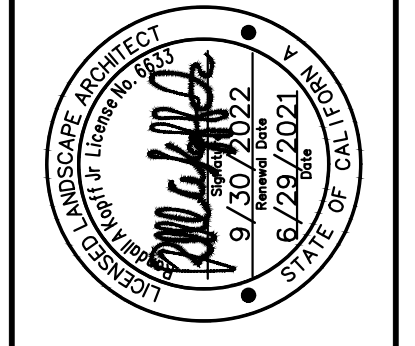
SHEET NUMBER  
 54 OF 60

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NO.	REVISIONS	DATE	BY

**Kimley-Horn**  
555 CAPITOL MALL, SUITE 800, SACRAMENTO, CA 95814  
PHONE: 916-858-5800  
WWW.KIMLEY-HORN.COM



KHA PROJECT	097918026
DATE	JUNE 2021
SCALE	AS SHOWN
DESIGNED BY	
DRAWN BY	
CHECKED BY	

**WASHINGTON BLVD AT ALL AMERICA CITY  
BLVD ROUNDABOUT PROJECT**  
IRRIGATION DETAILS  
ID-01  
CITY OF ROSEVILLE, PLACER COUNTY, CALIFORNIA

ALL CITY-MAINTAINED LANDSCAPES SHALL BE CONSTRUCTED ACCORDING TO CITY OF ROSEVILLE PARKS CONSTRUCTION STANDARDS, LATEST EDITION.



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MINIMUM BEARING SURFACE AREA			
PIPE SIZE	TEE AND PLUG	90 DEGREE BEND	45 DEGREE BEND
1-1/2"	0.45 SQ. FT.	0.63 SQ. FT.	0.34 SQ. FT.
2"	0.69 SQ. FT.	0.97 SQ. FT.	0.53 SQ. FT.
2-1/2"	1.0 SQ. FT.	1.41 SQ. FT.	0.77 SQ. FT.
3"	1.48 SQ. FT.	2.10 SQ. FT.	1.14 SQ. FT.
4"	2.43 SQ. FT.	3.45 SQ. FT.	1.87 SQ. FT.
6"	5.25 SQ. FT.	7.41 SQ. FT.	4.02 SQ. FT.
8"	9.08 SQ. FT.	12.83 SQ. FT.	6.96 SQ. FT.
10"	14.93 SQ. FT.	21.07 SQ. FT.	11.44 SQ. FT.

**NOTES**

1. SIZE THRUST BLOCKS AS SPECIFIED ABOVE.
2. DO NOT ENCASE CONTROL WIRES IN THE CONCRETE.
3. ALL FITTINGS MUST BE WRAPPED WITH POLYETHYLENE TO PREVENT CONCRETE FROM ADHERING TO BOLTS OR PIPES.
4. JOINTS AND BOLTS SHALL BE ACCESSIBLE FOR REPAIRS.

DION LOUTHAN, CPRP  
ASSISTANT CITY MANAGER

CITY OF ROSEVILLE  
PARKS, RECREATION, & LIBRARIES DEPARTMENT

**THRUST BLOCKS**

SCALE: NONE  
REVISED: JULY 2019  
REVIEWED BY: T. GEE  
APPROVED BY: D. LOUTHAN

PK-10

**1 CITY STANDARD DETAIL**  
NTS

**NOTES**

1. COMPACT SOIL AROUND BOX TO 90% MINIMUM COMPACTION.
2. PLACE DRAIN ROCK PRIOR TO INSTALLING VALVE BOX.
3. GATE VALVE AND FITTINGS SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.
4. USE TEFLON TAPE ON ALL THREADED FITTINGS.
5. LOCATE VALVES IN SHRUB/GROUNDCOVER AREAS WHENEVER POSSIBLE.
6. LOOP EXTRA TRACER WIRE UP TO TOP OF BOX.

DION LOUTHAN, CPRP  
ASSISTANT CITY MANAGER

CITY OF ROSEVILLE  
PARKS, RECREATION, & LIBRARIES DEPARTMENT

**VALVE  
3" AND SMALLER**

SCALE: NONE  
REVISED: JULY 2019  
REVIEWED BY: T. GEE  
APPROVED BY: D. LOUTHAN

PK-11

**2 CITY STANDARD DETAIL**  
NTS

**NOTES**

1. INSTALL VALVES A MINIMUM OF 12" FROM STRUCTURES OR HARDSCAPING.
2. INSTALL VALVES IN PLANTER BEDS WHENEVER POSSIBLE.
3. PLACE VALVE BOX AT RIGHT ANGLES TO STRUCTURES OR HARDSCAPING.
4. INSTALL VALVE BOX SO THAT TOP OF BOX IS FLUSH WITH ADJACENT HARDSCAPING.
5. USE TEFLON TAPE ON ALL MALE THREADS.
6. PROVIDE SCHEDULE 80 THREADED UNION ON DOWNSTREAM SIDE.
7. INSULATE AROUND PIPE AT BOX OPENINGS WITH PLASTIC SHEETING TO PREVENT SOIL FROM ENTERING BOX.
8. REFER TO SPECIFICATIONS FOR REQUIREMENTS FOR TAPING, EXPANSION COILS, WIRE CONNECTIONS, ETC.
9. ALL RCV'S SHALL BE TAGGED INDICATING STATION #'S.
10. ALL VALVE BOXES SHALL HAVE STATION #'S PERMANENTLY BURNED ON VALVE BOX LIDS. MARKINGS SHALL BE AS FOLLOWS:  
TURF VALVES: T#  
LANDSCAPE AREA VALVES: L#  
BUBBLER VALVES: B#

DION LOUTHAN, CPRP  
ASSISTANT CITY MANAGER

CITY OF ROSEVILLE  
PARKS, RECREATION, & LIBRARIES DEPARTMENT

**VALVE  
DRIP CONTROL**

SCALE: NONE  
REVISED: JULY 2019  
REVIEWED BY: T. GEE  
APPROVED BY: D. LOUTHAN

PK-13

**3 CITY STANDARD DETAIL**  
NTS

**NOTES**

1. INSTALL VALVE BOXES SO THAT THE TOP OF THE BOX IS FLUSH WITH THE TOP OF THE ADJACENT HARDSCAPE.
2. USE TEFLON TAPE ON ALL THREADED CONNECTIONS.

DION LOUTHAN, CPRP  
ASSISTANT CITY MANAGER

CITY OF ROSEVILLE  
PARKS, RECREATION, & LIBRARIES DEPARTMENT

**VALVE  
QUICK COUPLING**

SCALE: NONE  
REVISED: JULY 2019  
REVIEWED BY: T. GEE  
APPROVED BY: D. LOUTHAN

PK-14

**4 CITY STANDARD DETAIL**  
NTS

**NOTES**

1. INSTALL VALVES A MINIMUM OF 12" FROM STRUCTURES OR HARDSCAPING.
2. INSTALL VALVES IN PLANTER BEDS WHENEVER POSSIBLE.
3. PLACE VALVE BOX AT RIGHT ANGLES TO STRUCTURES OR HARDSCAPING.
4. INSTALL VALVE BOX SO THAT TOP OF BOX IS FLUSH WITH ADJACENT HARDSCAPING.
5. USE TEFLON TAPE ON ALL MALE THREADS.
6. PROVIDE SCHEDULE 80 THREADED UNION ON DOWNSTREAM SIDE.
7. INSULATE AROUND PIPE AT BOX OPENINGS WITH PLASTIC SHEETING TO PREVENT SOIL FROM ENTERING BOX.
8. REFER TO SPECIFICATIONS FOR REQUIREMENTS FOR TAPING, EXPANSION COILS, WIRE CONNECTIONS, ETC.
9. ALL RCV'S SHALL BE TAGGED INDICATING STATION #'S.
10. ALL VALVE BOXES SHALL HAVE STATION #'S PERMANENTLY BURNED ON VALVE BOX LIDS. MARKINGS SHALL BE AS FOLLOWS:  
TURF VALVES: T#  
LANDSCAPE AREA VALVES: L#  
BUBBLER VALVES: B#

DION LOUTHAN, CPRP  
ASSISTANT CITY MANAGER

CITY OF ROSEVILLE  
PARKS, RECREATION, & LIBRARIES DEPARTMENT

**VALVE  
REMOTE CONTROL AT GRADE**

SCALE: NONE  
REVISED: JULY 2019  
REVIEWED BY: T. GEE  
APPROVED BY: D. LOUTHAN

PK-15

**5 CITY STANDARD DETAIL**  
NTS

**NOTES**

1. CENTER BALL VALVE IN VALVE BOX OPENING TO ALLOW EASY ACCESS.
2. INSTALL OPERATION INDICATOR WITHIN 18" OF FLUSH VALVE.
3. PLACE VALVE BOX AT RIGHT ANGLES TO STRUCTURES OR HARDSCAPING.
4. USE TEFLON TAPE ON ALL MALE THREADS.
5. INSTALL 3M LOCATOR BALLS AT ALL BOXES.
6. REFER TO SPECIFICATIONS FOR REQUIREMENTS FOR TAPING, EXPANSION COILS, WIRE CONNECTIONS, ETC.

DION LOUTHAN, CPRP  
ASSISTANT CITY MANAGER

CITY OF ROSEVILLE  
PARKS, RECREATION, & LIBRARIES DEPARTMENT

**DRIP FLUSH VALVE  
AND OPERATION INDICATOR**

SCALE: NONE  
REVISED: JULY 2019  
REVIEWED BY: T. GEE  
APPROVED BY: D. LOUTHAN

PK-16

**6 CITY STANDARD DETAIL**  
NTS

ALL CITY-MAINTAINED LANDSCAPES SHALL BE CONSTRUCTED ACCORDING TO CITY OF ROSEVILLE PARKS CONSTRUCTION STANDARDS, LATEST EDITION.



WASHINGTON BLVD AT ALL AMERICA CITY  
 BLVD ROUNDABOUT PROJECT  
 ID-02  
 IRRIGATION DETAILS  
 CITY OF ROSEVILLE, PLACER COUNTY, CALIFORNIA

KHA PROJECT 097918026  
 DATE JUNE 2021  
 SCALE AS SHOWN  
 DESIGNED BY  
 DRAWN BY  
 CHECKED BY

Kimley-Horn  
 555 CAPITOL MALL, SUITE 300, SACRAMENTO, CA 95814  
 PHONE: 916-858-5600  
 WWW.KIMLEY-HORN.COM

REVISIONS  
 NO. DATE BY

SHEET NUMBER  
 56 OF 60

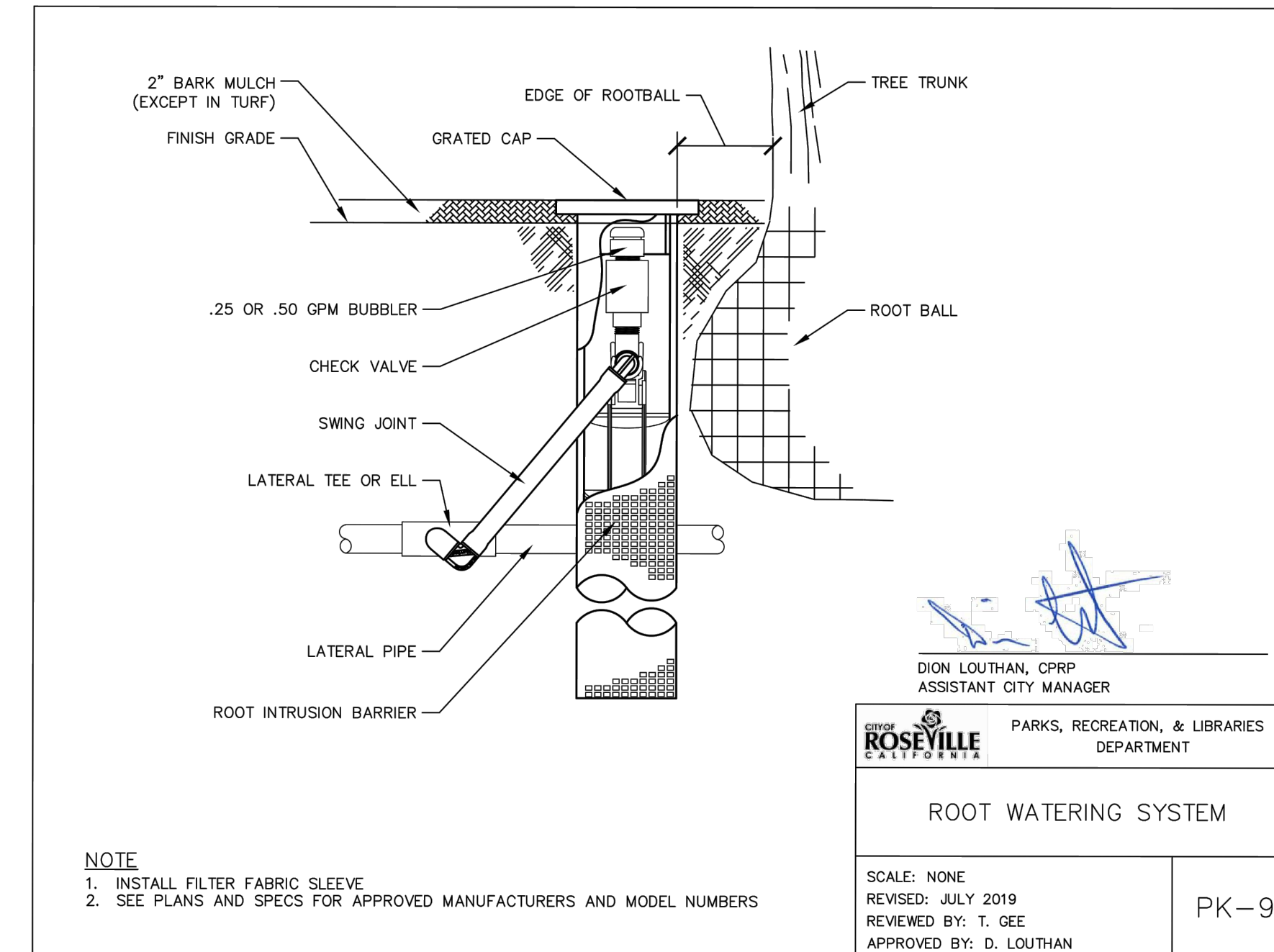
WATERING TIME ADJUSTMENT (HYDROZONE 'A' DRIP)												
MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MAXIMUM MINUTES PER START TIME	16	16	16	16	16	16	16	16	16	16	16	16
START TIMES PER WEEK	2	3	4	6	6	8	8	8	6	4	3	2
TOTAL MINUTES PER WEEK	32	48	64	96	96	128	128	128	96	64	48	32

WATERING TIME ADJUSTMENT (HYDROZONE 'B' BUBBLER)												
MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MAXIMUM MINUTES PER START TIME	5	5	5	5	5	5	5	5	5	5	5	5
START TIMES PER WEEK	2	2	3	4	5	6	6	6	4	3	2	2
TOTAL MINUTES PER WEEK	10	10	15	20	25	30	30	30	20	15	10	10

WATERING TIME ADJUSTMENT (HYDROZONE 'C' ROTARY)												
MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MAXIMUM MINUTES PER START TIME	22	22	22	22	22	22	22	22	22	22	22	22
START TIMES PER WEEK	1	2	2	3	3	4	4	4	3	2	1	1
TOTAL MINUTES PER WEEK	22	44	44	66	66	88	88	88	66	44	22	22

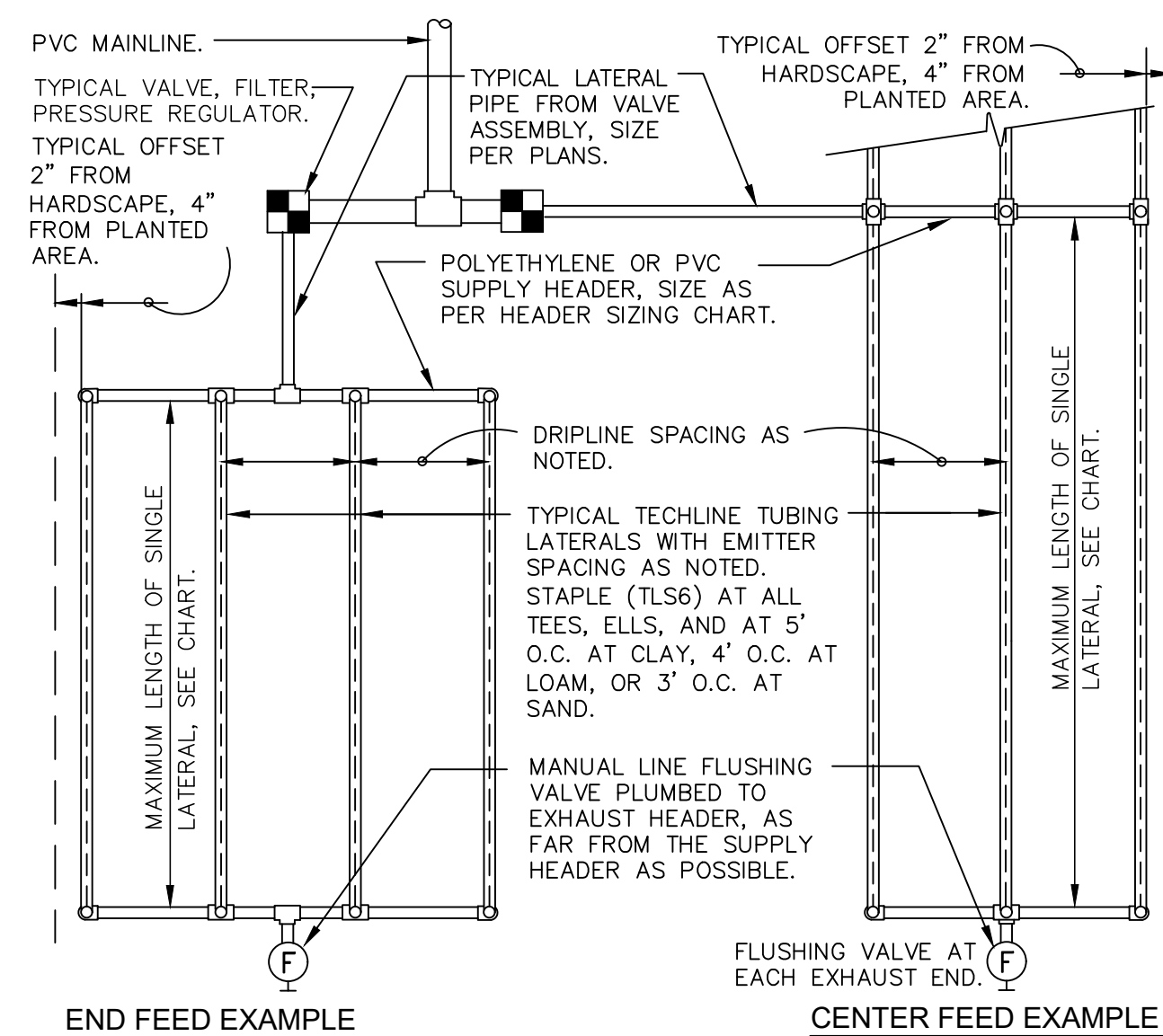
NOTES:  
 1. WATERING REQUIREMENTS ARE APPROXIMATE PER SEASON AND SHOULD BE ADJUSTED TO REFLECT SEASONAL FLUCTUATIONS IN AVERAGE PRECIPITATION.  
 2. "IRRIGATION SCHEDULING INFORMATION" IS TO BE USED FOR WATERING TIME/DURATION/FREQUENCY FOR THE FIRST THREE YEARS, HOWEVER THE SYSTEM SHOULD BE MONITORED FREQUENTLY AND ADJUSTED TO MEET THE NEEDS OF THE PLANT MATERIAL AS MATURE ROOT SYSTEMS DEVELOP.  
 3. ALL PLANTS TO RECEIVE APPROPRIATE ADDITIONAL 15% HIGHER WATERING DURING INSTALLATION PERIOD IN ORDER TO ESTABLISH HEALTHY AND DEEP ROOT GROWTH.\*



**ROSEVILLE CALIFORNIA** PARKS, RECREATION, & LIBRARIES DEPARTMENT  
**ROOT WATERING SYSTEM**  
 SCALE: NONE  
 REVISED: JULY 2019  
 REVIEWED BY: T. GEE  
 APPROVED BY: D. LOUTHAN  
 PK-9

**\*PRE AND POST ESTABLISHMENT IRRIGATION RUN TIME SCHEDULE**  
 NTS

**1 CITY STANDARD DETAIL**  
 NTS



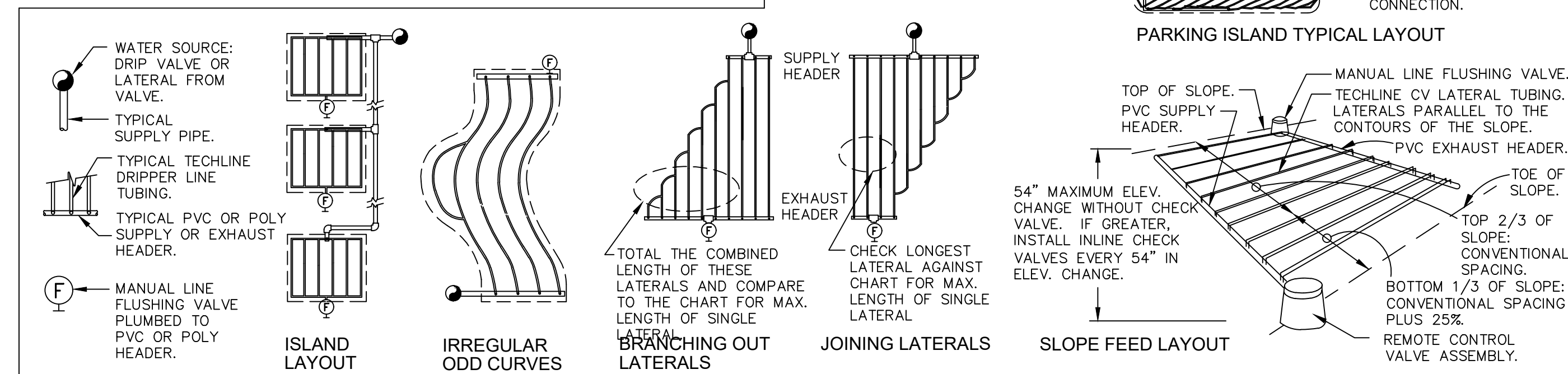
**2 TYPICAL NETAFIM TECHLINE CV REQUIREMENTS**  
 N.T.S.

TECHLINE CV MAXIMUM LENGTH OF SINGLE LATERAL (FEET)												
DRIPPER SPACING	12"			18"			24"					
	DRIPPER FLOW RATE (GPH)	0.26	0.4	0.6	0.9	0.26	0.4	0.6	0.9	0.6	0.9	
INLET PRESSURE (PSI)	15	127	109	86	65	177	151	120	91	152	116	
	25	427	325	256	194	604	459	361	274	458	348	
	35	539	409	322	244	763	579	456	346	580	440	
45	618	469	369	280	877	664	523	397	666	506		

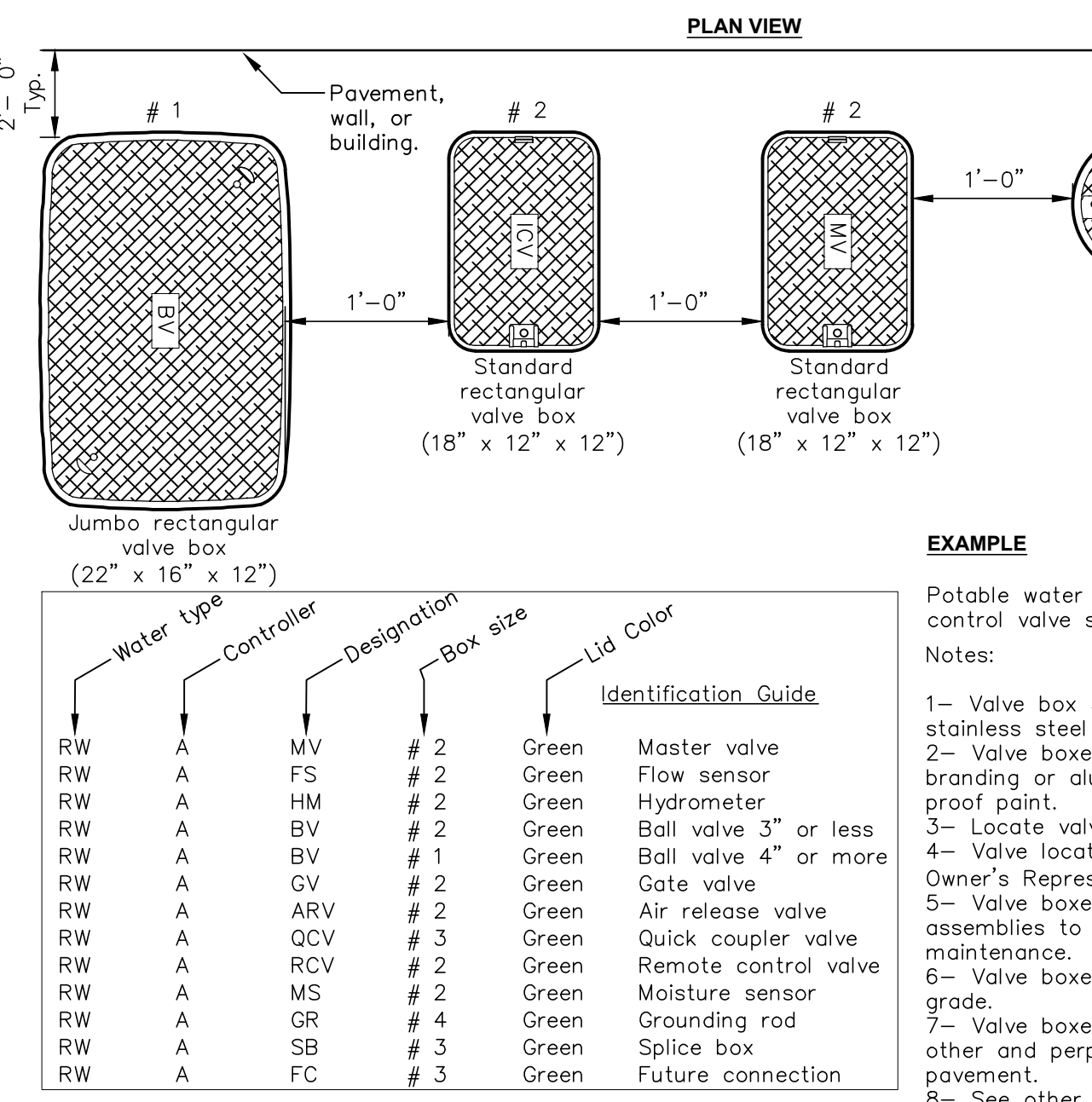
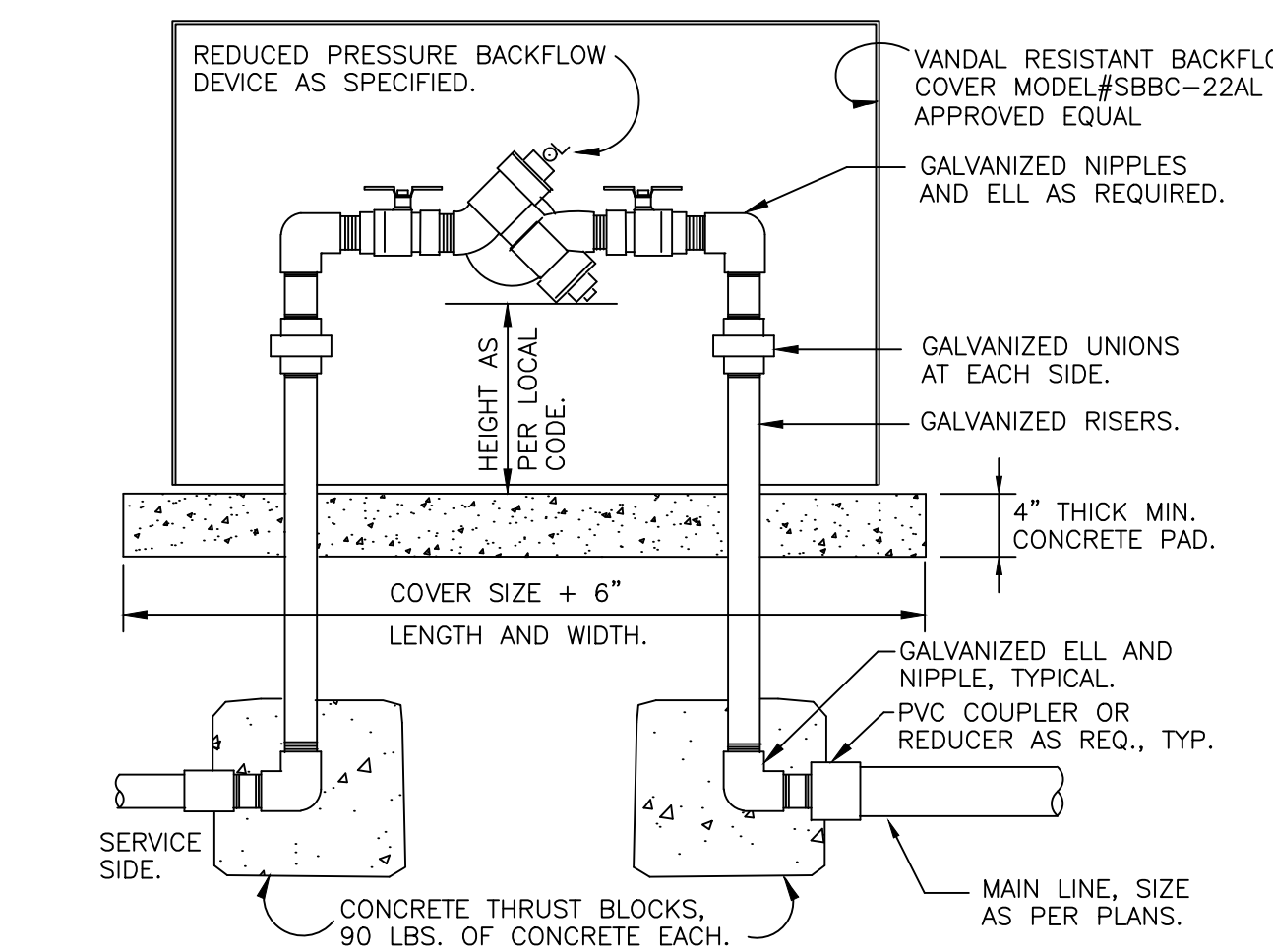
TECHLINE FLOW PER 100 FEET							
DRIPPER SPACING	0.26 GPH DRIPPER	0.4 GPH DRIPPER	0.6 GPH DRIPPER	0.9 GPH DRIPPER			
12"	26.40	0.44	40.00	0.67	61.00	1.02	92.00
18"	17.58	0.29	26.67	0.44	41.00	0.68	61.00
24"	N/A	N/A	N/A	N/A	31.00	0.51	46.00

**SUPPLY AND EXHAUST HEADER SIZING CHART (UNLESS NOTED ON PLANS)**  
 STEP 1: ADD LENGTH OF ALL TECHLINE LATERAL TUBING CONNECTED TO THE HEADER.  
 STEP 2: DIVIDE THIS TOTAL LENGTH BY 100 TO INDICATE THE LENGTH IN UNITS OF 100.  
 STEP 3: LOCATE THE GPM THAT APPLIES FOR EACH UNIT OF 100 FEET LENGTH ON THE CHART "TECHLINE FLOW PER 100 FEET". MULTIPLY THIS GPM NUMBER TIMES THE UNITS OF 100 FEET FOR THE TOTAL GPM AT THIS HEADER.  
 STEP 4: SIZE THE HEADER WITH THE FOLLOWING:  
 1 TO 6 GPM: 3/4" HEADER.  
 6 TO 10 GPM: 1" HEADER.  
 10 TO 20 GPM: 1 1/4" HEADER.  
 20 TO 30 GPM: 1 1/2" HEADER.

TECHLINE CV GENERAL GUIDELINES FOR WATERING TIME						
	TURF			SHRUB & GROUND COVER		
	CLAY	LOAM	SANDY	CLAY	LOAM	SANDY
DIPPER FLOW (GPH)	0.26	0.4	0.6	0.26	0.4	0.6
DRIPPER INTERVAL	18"	12"	12"	18"	18"	12"
LATERAL (ROW) SPACING	18"-22"	18"-22"	12"-16"	18"-24"	18"-24"	16"-20"
APPLICATION RATE (IN/HR)	.19-.15	.43-.35	.96-.72	.19-.21	.29-.21	.72-.58
TIME TO APPLY 1/4"	79-100	35-43	16-21	79-107	52-71	21-26

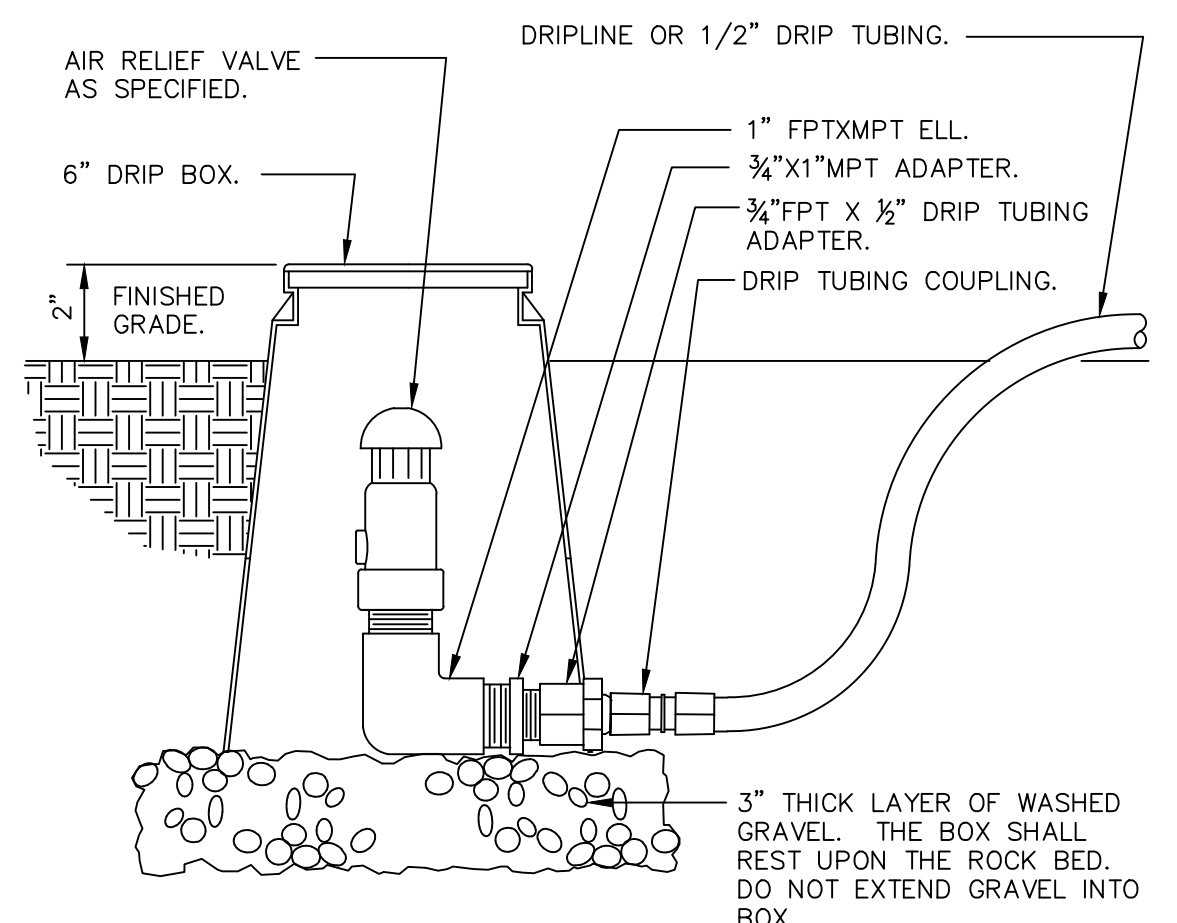


**3 RP BACKFLOW W/ENCLOSURE**  
 NOT TO SCALE



**EXAMPLE**  
 Potable water system on Controller 'A', Remote control valve station # 3.  
 Notes:  
 1- Valve box # 1 thru # 3 shall have stainless steel locking hardware.  
 2- Valve boxes shall be labeled by hot iron branding or aluminum asphaltic base water proof paint.  
 3- Locate valve assemblies in planting area.  
 4- Valve locations shall be approved by the Owner's Representative prior to installation.  
 5- Valve boxes shall be centered above valve assemblies to facilitate access and maintenance.  
 6- Valve boxes shall be flush with finished grade.  
 7- Valve boxes shall be set parallel to each other and perpendicular to the edge of pavement.  
 8- See other irrigation details for further information.

**5 DRIP AIR RELIEF VALVE IN BOX**  
 NOT TO SCALE



ALL CITY-MAINTAINED LANDSCAPES SHALL BE CONSTRUCTED ACCORDING TO CITY OF ROSEVILLE PARKS CONSTRUCTION STANDARDS, LATEST EDITION.



WASHINGTON BLVD AT ALL AMERICA CITY  
 BLVD ROUNDABOUT PROJECT

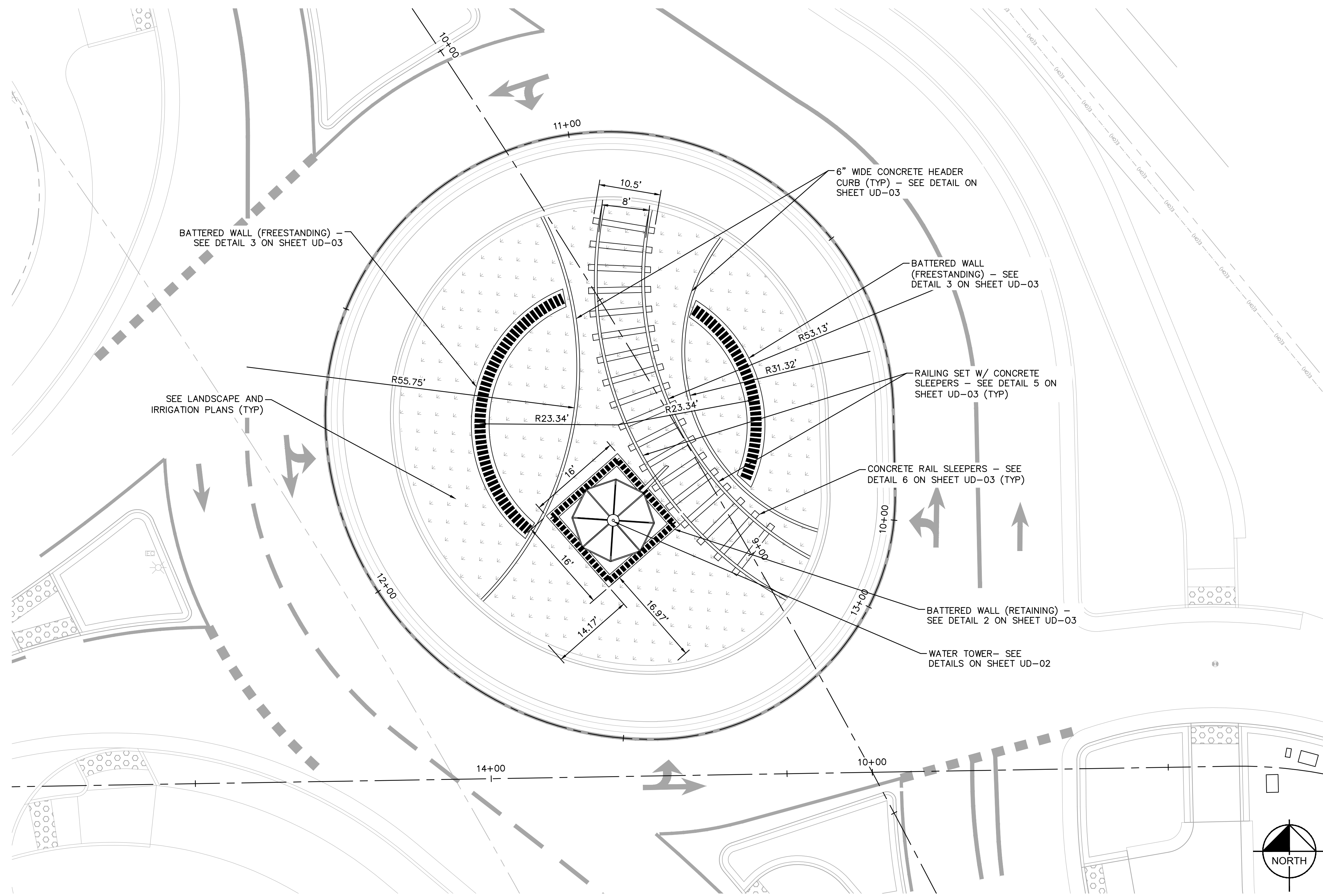
**Kimley»Horn**  
 555 CAPITOL MALL, SUITE 800, SACRAMENTO, CA 95814  
 PHONE: 916-858-5600  
 WWW.KIMLEY-HORN.COM

**REVISIONS**

NO.	DATE	BY

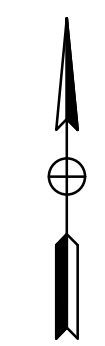
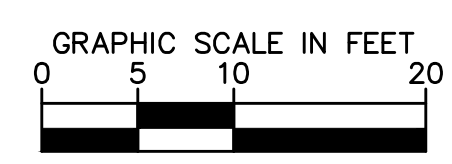
KHA PROJECT 097918026  
 DATE JUNE 2021  
 SCALE AS SHOWN  
 DESIGNED BY  
 DRAWN BY  
 CHECKED BY

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1 ROUNDABOUT URBAN DESIGN (PLAN)  
SCALE: 1"=10'

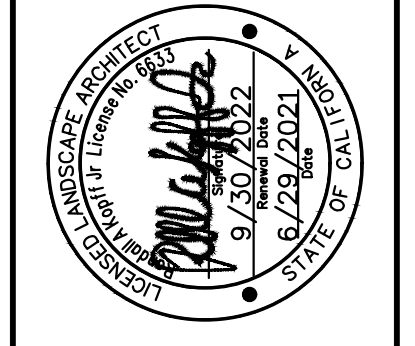
NOTE: FOR INFORMATION ONLY. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SIGNED BY A REGISTERED STRUCTURAL ENGINEER IN THE STATE OF CALIFORNIA FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND/OR CONSTRUCTION. DIGITAL FILES AVAILABLE UPON REQUEST.



Know what's below.  
Call before you dig.

NO.	REVISIONS	DATE	BY

**Kimley»Horn**  
 555 CAPITOL MALL, SUITE 800, SACRAMENTO, CA 95814  
 TEL: 916.486.8800 FAX: 916.486.8801  
 WWW.KIMLEY-HORN.COM

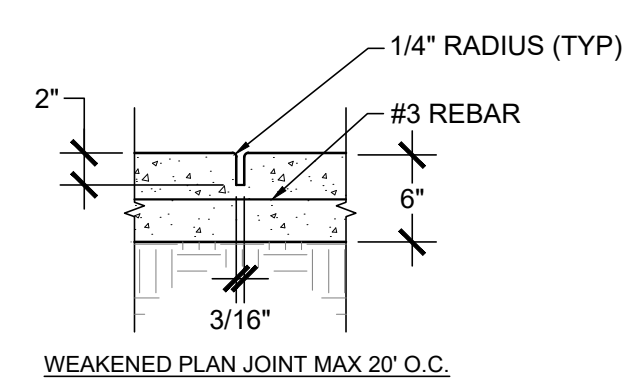
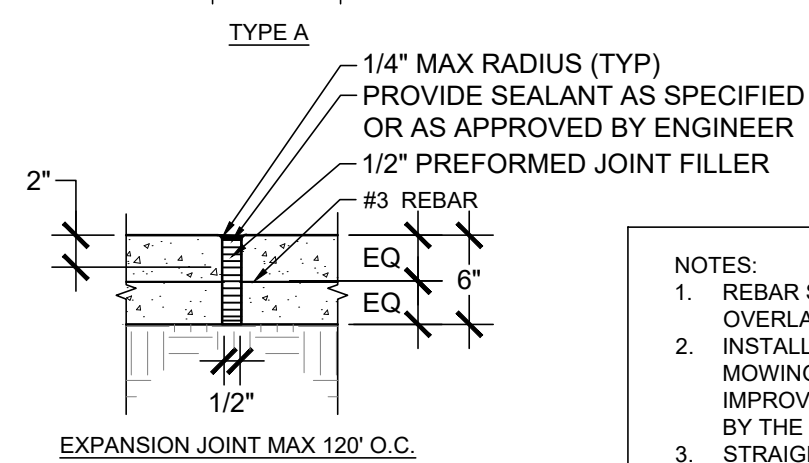
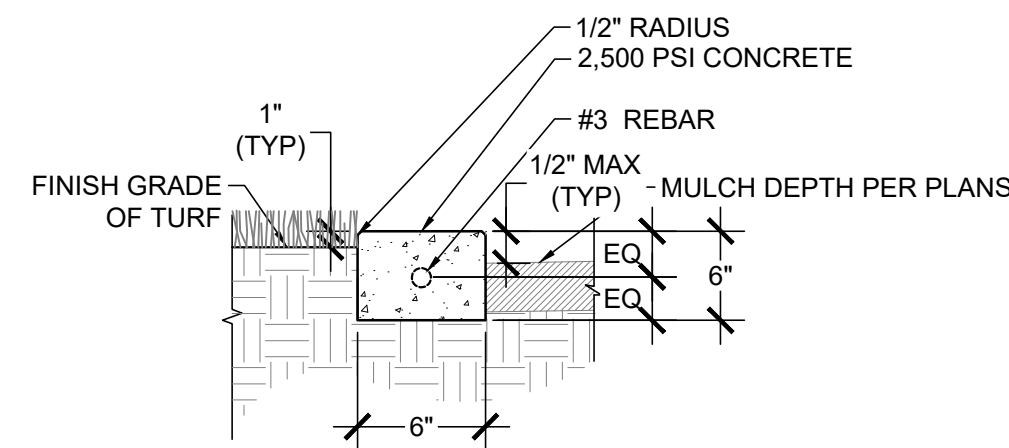


KHA PROJECT	097918026
DATE	JUNE 2021
SCALE	AS SHOWN
DESIGNED BY	
DRAWN BY	
CHECKED BY	

WASHINGTON BLVD AT ALL AMERICA CITY  
 BLVD ROUNDABOUT PROJECT  
 UD-01  
 URBAN DESIGN DETAILS  
 CITY OF ROSEVILLE, PLACER COUNTY, CALIFORNIA

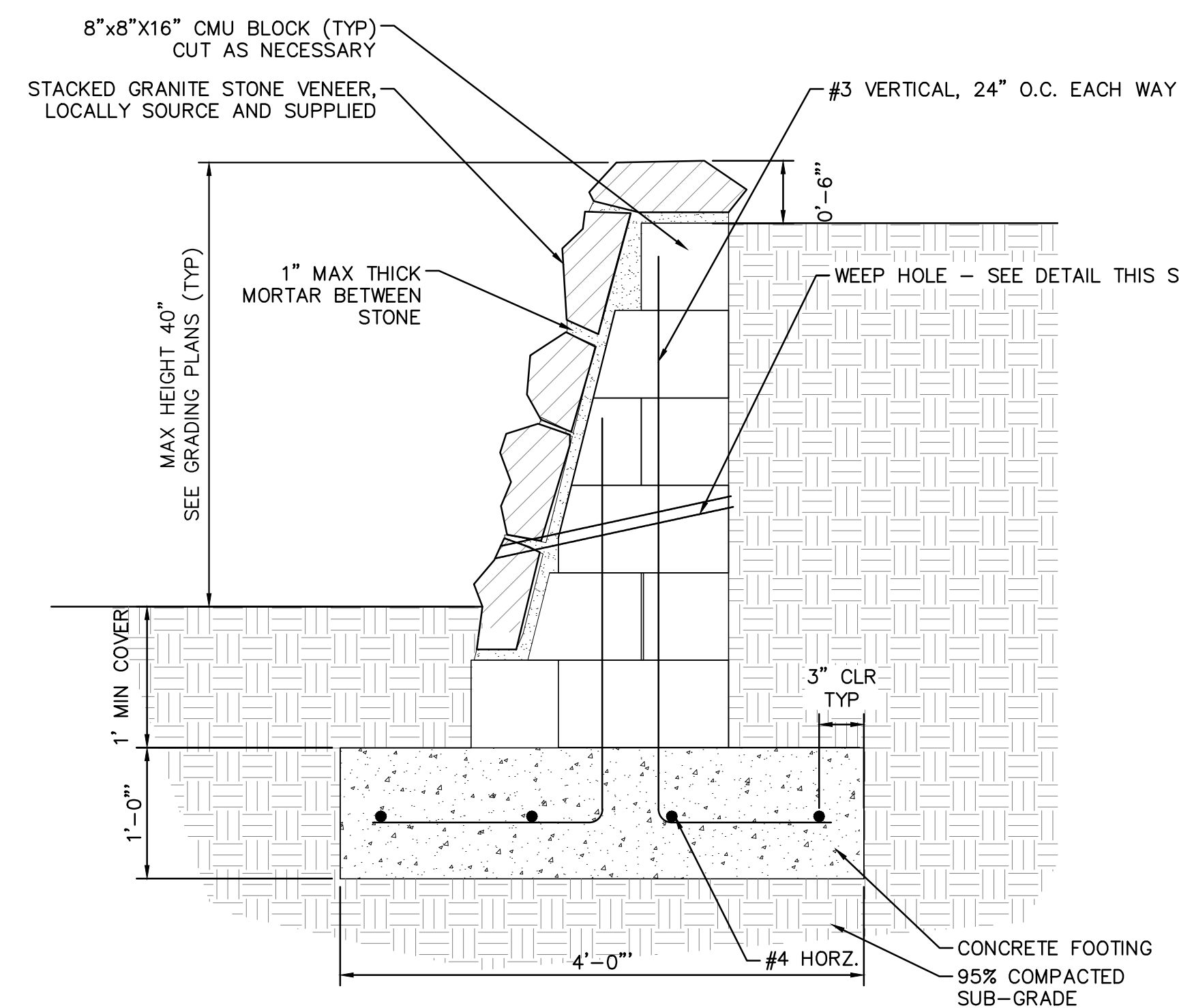


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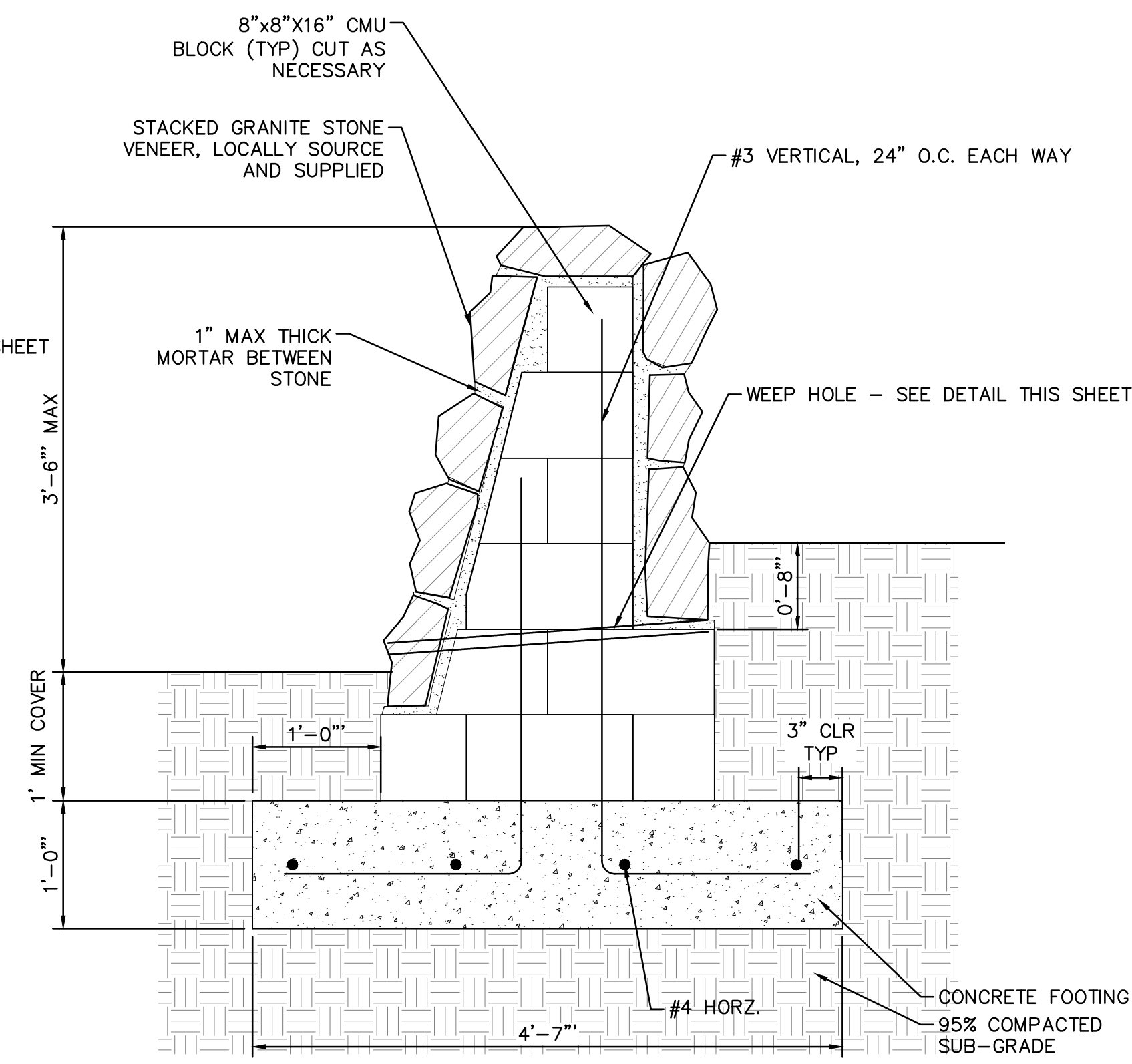


- NOTES:**
- REBAR SHALL BE CONTINUOUS WITH 18" OVERLAP WHERE SPLICED.
  - INSTALL EXPANSION JOINTS WHERE THE MOVING STRIP ABUTS CONCRETE IMPROVEMENT AND AT LOCATION APPROVED BY THE ENGINEER.
  - STRAIGHT SECTIONS TO MEET CURVED SECTIONS AT TRUE TANGENT POINTS WITH NO BROKEN CURVE SECTIONS.
  - CURVED SECTIONS TO BE FORMED IN SMOOTH, EVEN CURVES AS SHOWN ON PLANS.
  - FORM STAKING SHALL NOT ALLOW DEFORMING OR LEAKING. ALL SPILL OF EXCESS CONCRETE SHALL BE CLEANED UP AND REMOVED FROM SITE BY CONTRACTOR.

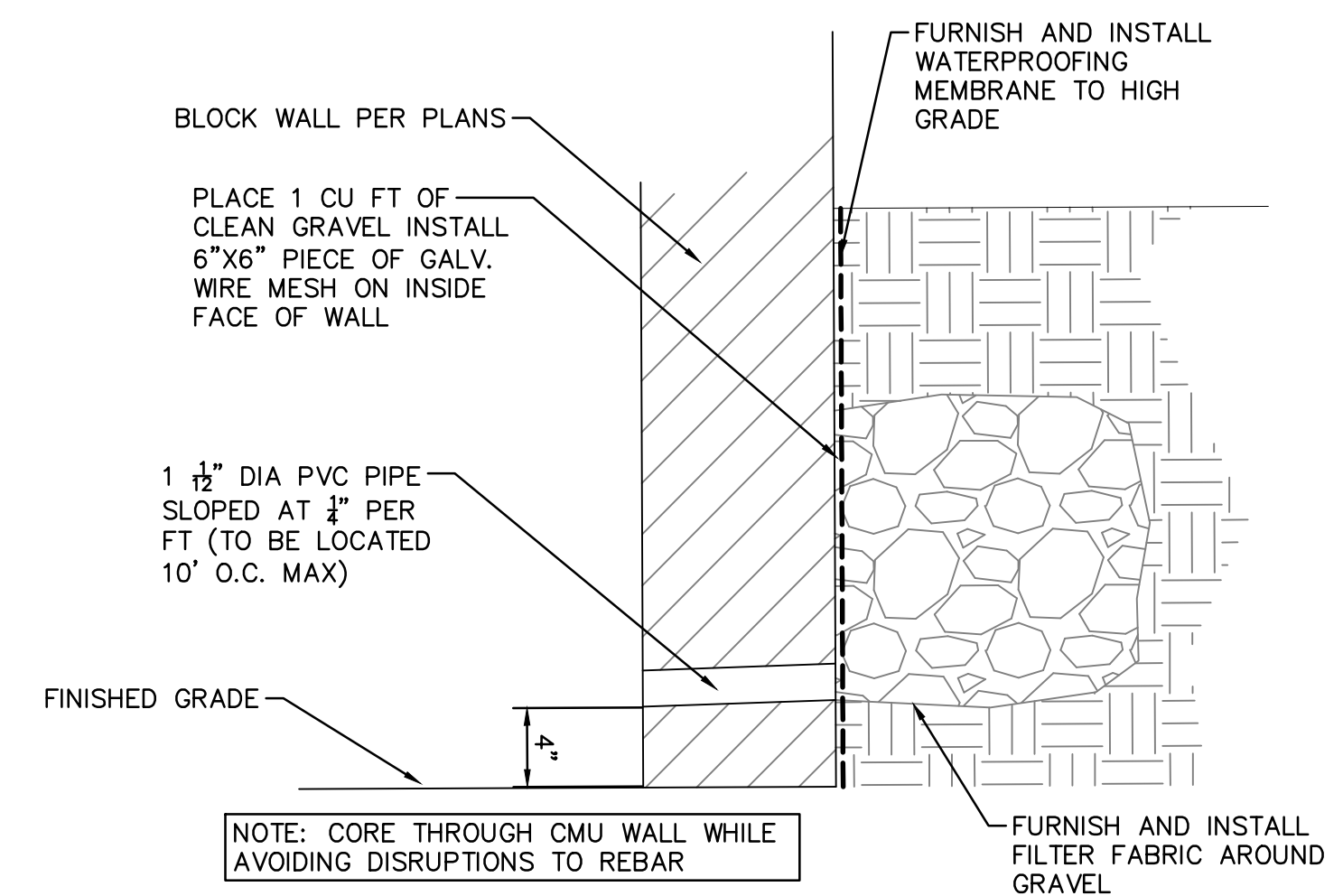
1 CONCRETE HEADER NTS



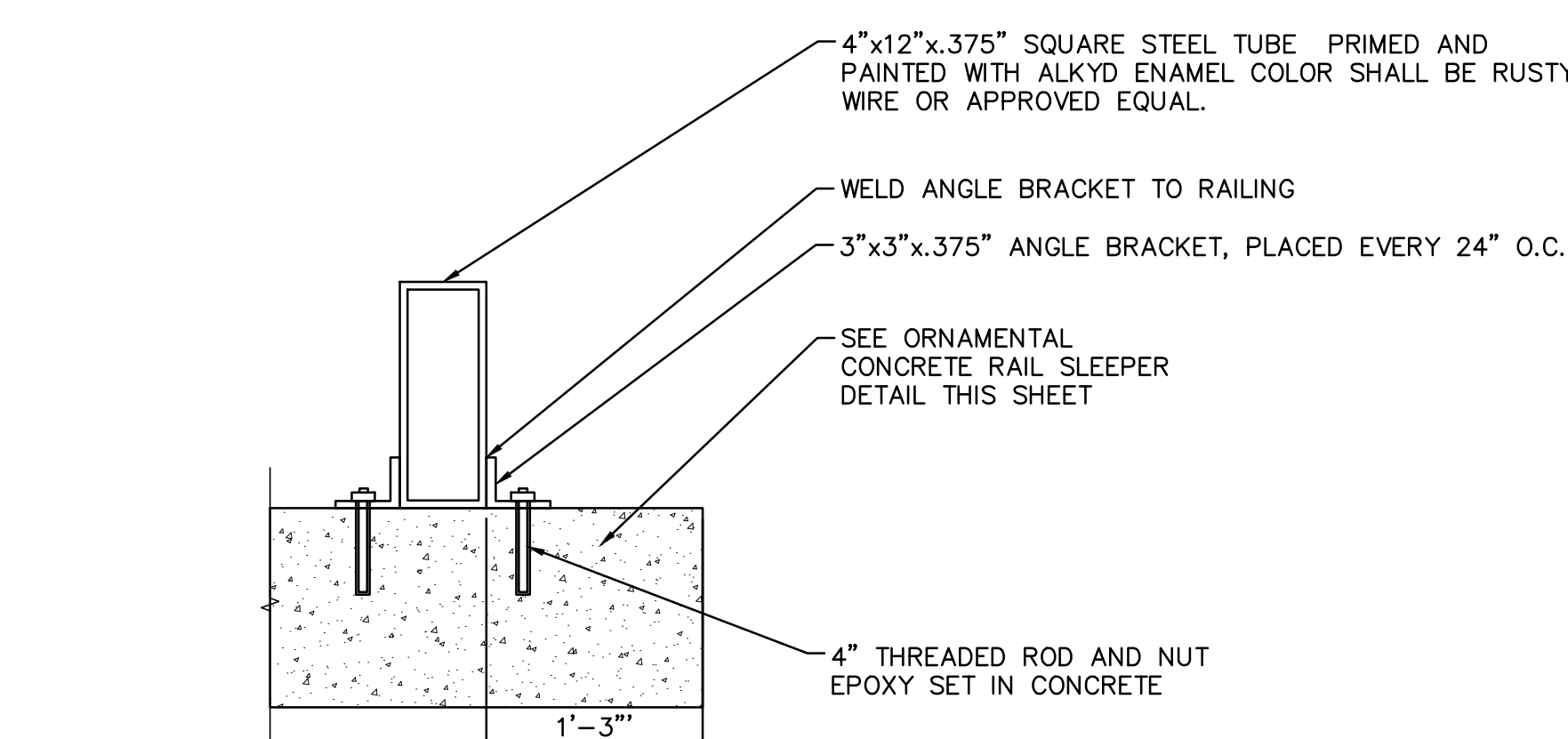
2 BATTERED WALL (RETAINING) NTS



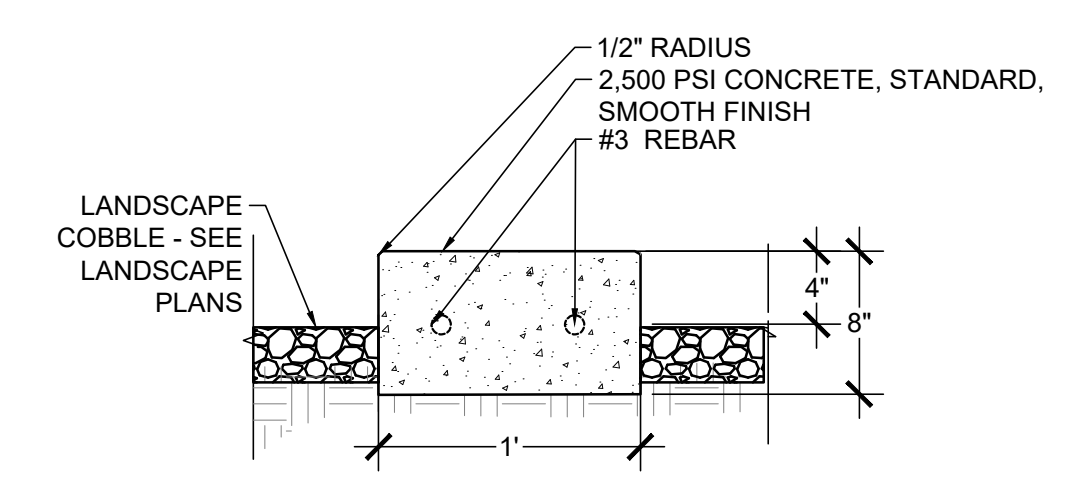
3 BATTERED WALL (FREESTANDING) NTS



4 TYPICAL WEEP HOLE NTS



5 RAILING SET WITH CONCRETE RAIL SLEEPERS NTS

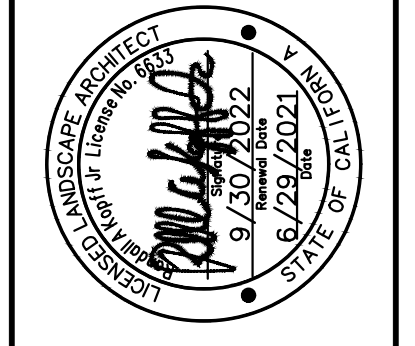


6 ORNAMENTAL CONCRETE RAIL SLEEPERS NTS

NOTE: FOR INFORMATION ONLY. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SIGNED BY A REGISTERED STRUCTURAL ENGINEER IN THE STATE OF CALIFORNIA FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND/OR CONSTRUCTION. DIGITAL FILES AVAILABLE UPON REQUEST.

NO.	REVISIONS	DATE	BY

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 555 CAPITOL MALL, SUITE 900, SACRAMENTO, CA 95814  
 PHONE: 916-858-5600  
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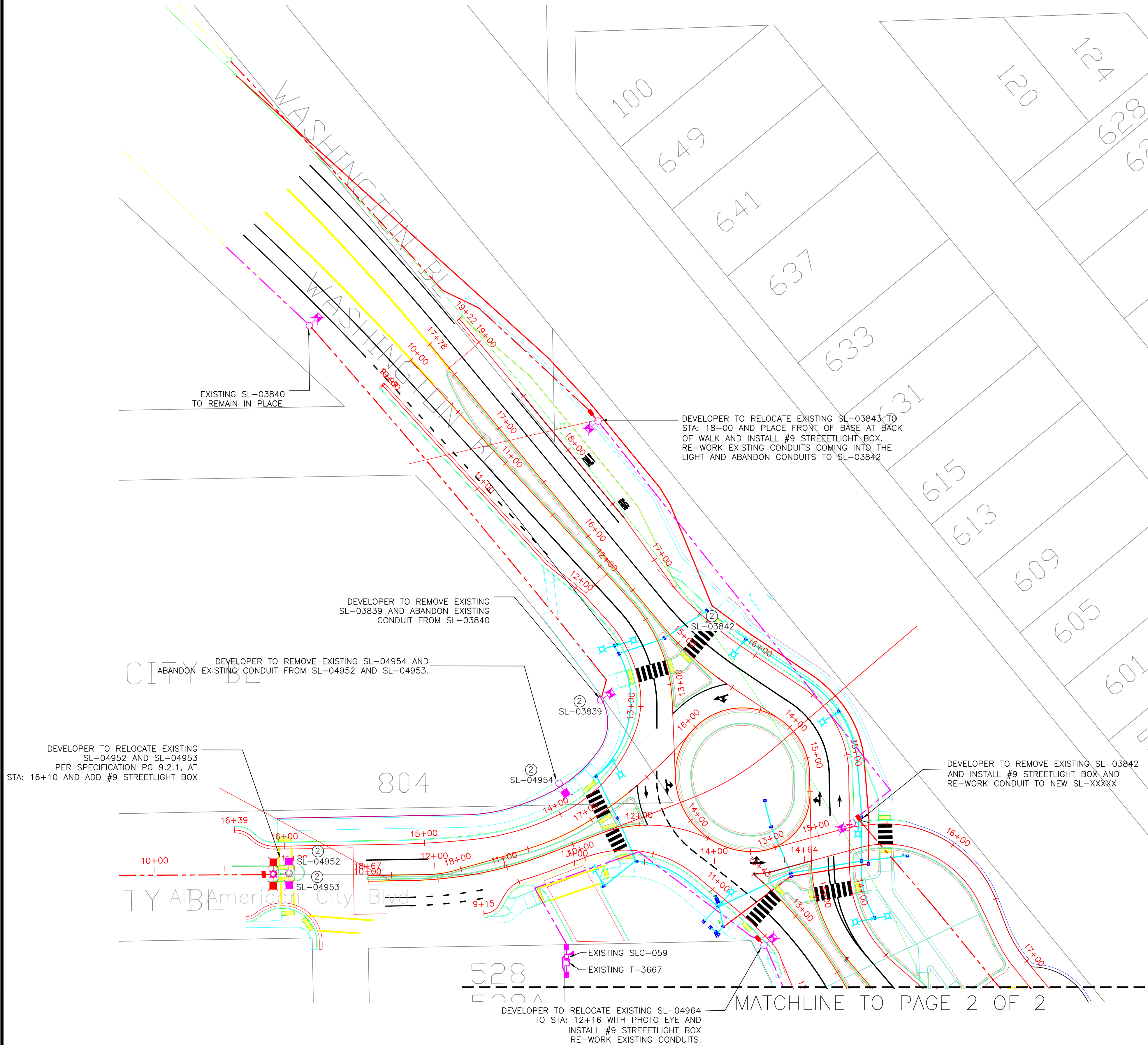
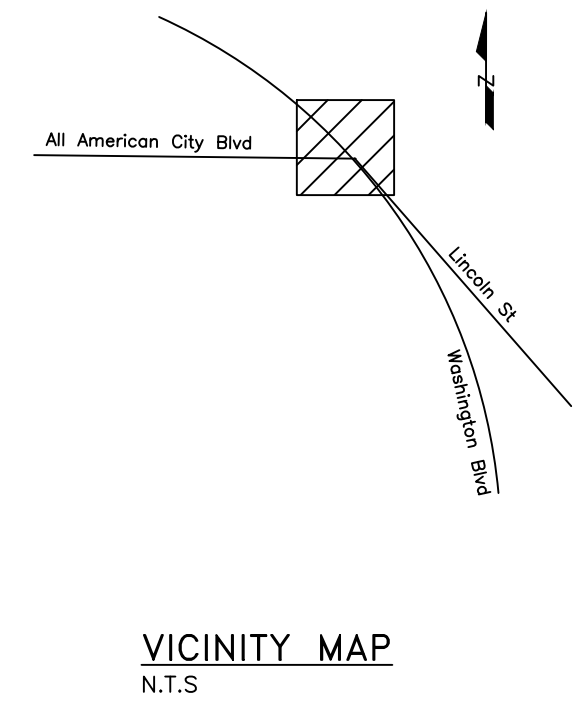
KHA PROJECT	097918026
DATE	JUNE 2021
SCALE	AS SHOWN
DESIGNED BY	
DRAWN BY	
CHECKED BY	

WASHINGTON BLVD AT ALL AMERICA CITY  
 BLVD ROUNDABOUT PROJECT  
 UD-03  
 URBAN DESIGN DETAILS  
 CITY OF ROSEVILLE, PLACER COUNTY, CALIFORNIA



# Washington Blvd. Roundabout Lighting

## PLAN FOR ELECTRIC UTILITY IMPROVEMENTS



### LEGEND:

- PADMOUNT 3 $\phi$  TRANSFORMER 1500kVA AND ABOVE (115"X115")
- PADMOUNT 3 $\phi$  TRANSFORMER 700kVA TO 1000kVA (96"X96")
- PADMOUNT 3 $\phi$  TRANSFORMER 45kVA TO 500kVA (78"X78")
- PADMOUNT 1 $\phi$  TRANSFORMER 167kVA AND BELOW (48"X54")
- CONCRETE PAD VAULT
- ABOVE GROUND 3 $\phi$  JUNCTION BOX
- BELOW GROUND 3 $\phi$  JUNCTION BOX
- 12kV DISTRIBUTION SPLICE PULL BOX (3'WX6'LX5'D)
- 12kV MAINLINE SPLICE PULL BOX (4'WX6'-6"LX5'D)
- #36 SECONDARY BOX (17"WX30"LX18"D)
- #30 SECONDARY BOX (17"WX24"LX18"D)
- #9 STREETLIGHT BOX (10"WX17"LX12"D)
- 150 WATT HPS EQUIVALENT LED STREET LIGHT
- 150 WATT HPS EQUIVALENT LED DECORATIVE STREET LIGHT
- 100 WATT HPS EQUIVALENT LED STREET LIGHT
- 250 WATT HPS EQUIVALENT LED STREET LIGHT
- 250 WATT HPS EQUIVALENT LED STREET LIGHT
- STREET LIGHT CONTROLLER
- PHOTO EYE
- CONDUIT STUB, CAP AND PLACE "E.M.S." MARKER
- SEE CORRESPONDING TRENCH DETAIL

- 4-4" C'S W/3-#750MCM AL. (OR AS NOTED)
- 1-4" C W/3-#1/0 PRI. URD CABLE
- 1-3" C W/2-#1/0 PRI. URD CABLE
- 1-3" C W/1-500 SECONDARY TRI-PLEX URD CABLE
- 1-3" C W/1-#4/0 SECONDARY TRI-PLEX URD CABLE
- 2-1 1/2" C STREET LIGHT CONDUIT W/3-#8 CU. WIRES
- EXISTING CONDUIT (AS NOTED)

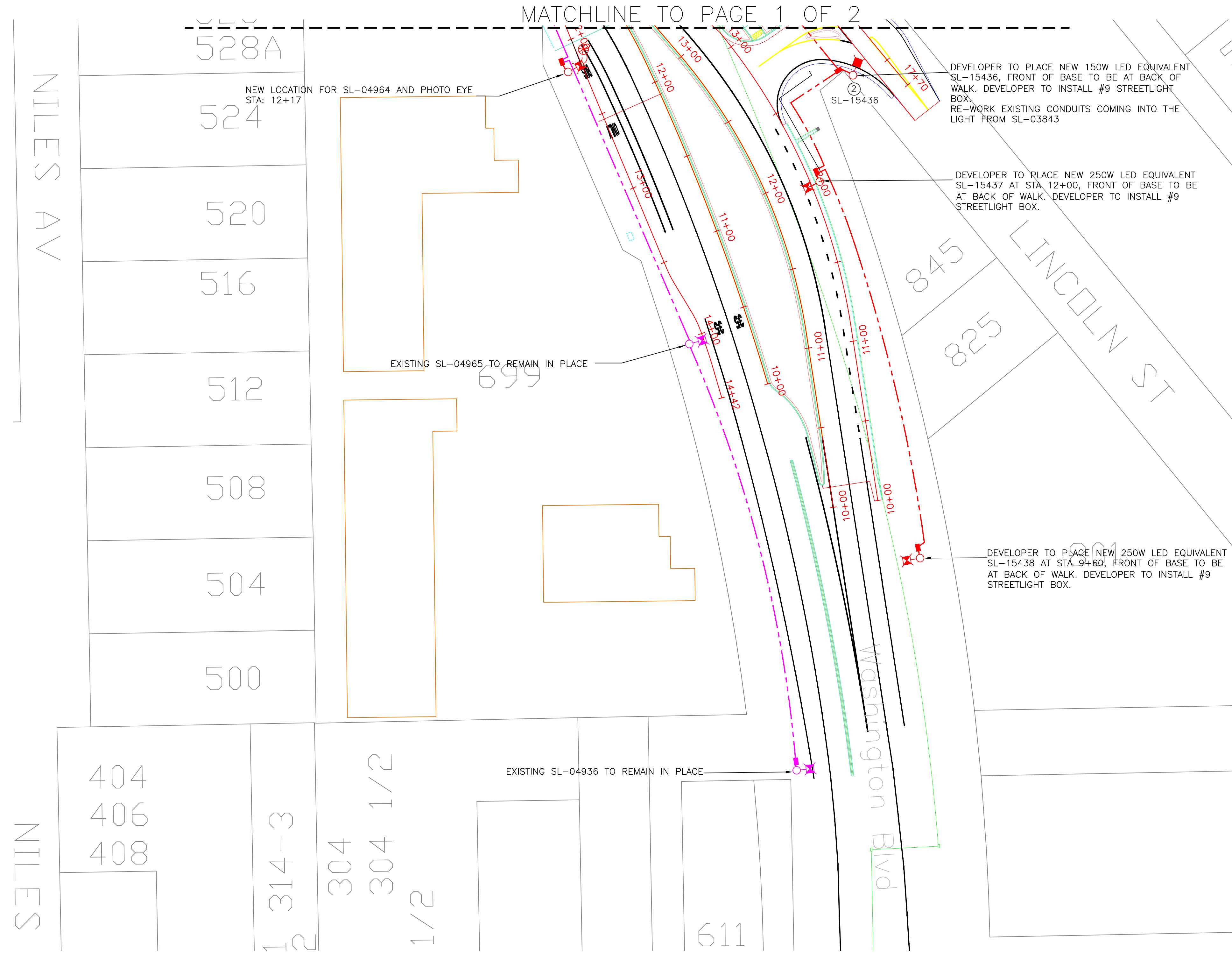
### NOTES:

- "ROSEVILLE ELECTRIC'S SPECIFICATIONS FOR COMMERCIAL CONSTRUCTION" ARE A PART OF THESE CONSTRUCTION PLANS FOR THIS DESIGN AND SHALL BE ADHERED TO UNLESS OTHERWISE DIRECTED BY SPECIFIC COMMENTS OR DETAILS IN THESE PLANS.
- A MINIMUM SEPARATION OF 5' WHEN PARALLELING AND BY AT LEAST 6" WHEN CROSSING IS REQUIRED BETWEEN ELECTRIC AND OTHER SUBSTRUCTURES (WATER, SEWER, STORM DRAIN, ETC). THE CROSSING SEPARATION MAY BE REDUCED TO 3" WHEN ELECTRIC CONDUITS ARE CONCRETE ENCASED AND APPROVED BY THE ELECTRIC DEPARTMENT INSPECTOR.
- A MINIMUM OF 5' WHEN PARALLELING AND 12" WHEN CROSSING PG&E GAS TRANSMISSION LINES.
- A MINIMUM 12" SEPARATION BETWEEN ELECTRIC, TELEPHONE, GAS AND CABLE T.V. IS REQUIRED. THIS SEPARATION MAY NOT BE REDUCED UNLESS SPECIFICALLY APPROVED IN EACH INSTANCE BY THE UTILITIES INVOLVED.
- THE CONTRACTOR TO PAY SPECIAL ATTENTION TO CROSSINGS WITH WATER MAINS, SANITARY SEWER, DRAIN PIPES, AND ANY OTHER OBSTRUCTIONS. CONTRACTOR TO PROVIDE THE MINIMUM REQUIRED COVER FOR ALL UTILITIES WITH A SMOOTH TRANSITION OVER OR UNDER OBSTRUCTION AS DIRECTED AND APPROVED BY ALL UTILITIES INVOLVED. THE APPROACH AND DEPARTURE FOR AN OBSTRUCTION SHALL BEGIN AND END 100 LINEAL FEET AWAY FROM THE OBSTRUCTION.
- TRENCH DETAILS SHOWN ON THESE PLANS ARE FOR ELECTRIC. IF OTHER UTILITIES REQUEST JOINT TRENCH OCCUPATION, THE TRENCH DIMENSIONS MAY BE MODIFIED. IT IS THE DEVELOPERS RESPONSIBILITY TO CO-ORDINATE SUCH REQUESTS TO THE SATISFACTION OF ALL THE UTILITIES INVOLVED.
- CONTRACTOR SHALL INSURE THAT ALL TRENCHING AND INSTALLATION OF ELECTRIC FACILITIES CONFORMS TO CAL. O.S.H.A. AND THE STATE OF CALIFORNIA P.U.C. GENERAL ORDER NO. 128 REQUIREMENTS.
- THE CITY OF ROSEVILLE IS A MEMBER OF THE UNDERGROUND SERVICE ALERT SYSTEM, CALL BEFORE YOU DIG!! U.S.A PHONE #800-642-2444. ROSEVILLE ELECTRIC DISPATCH PHONE #916-774-5620.

	REV. BY: _____ DATE: _____ DESCRIPTION: _____ APPR. _____	MAXIMO NO. 000000
	Washington Blvd Roundabout Lighting Design	ACCOUNT NO. 6001-6587-84701-290001-01070
	Washington Blvd and Lincoln	DRAWING NO. 120-1548
	ENG. TMcAvey APPR. jmm DATE: 03/30/21 SCALE: 1"=40'	SHEET 1 OF 2

# Washington Blvd Roundabout Lighting Design

## PLAN FOR ELECTRIC UTILITY IMPROVEMENTS



### LEGEND:

- PADMOUNT 3 $\phi$  TRANSFORMER 1500kVA AND ABOVE (115"X115")
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- 250 WATT HPS EQUIVALENT LED STREET LIGHT
- 250 WATT HPS EQUIVALENT LED STREET LIGHT
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- EXISTING CONDUIT (AS NOTED)

### NOTES:

1. "ROSEVILLE ELECTRIC'S SPECIFICATIONS FOR COMMERCIAL CONSTRUCTION" ARE A PART OF THESE CONSTRUCTION PLANS FOR THIS DESIGN AND SHALL BE ADHERED TO UNLESS OTHERWISE DIRECTED BY SPECIFIC COMMENTS OR DETAILS IN THESE PLANS.
2. A MINIMUM SEPARATION OF 5' WHEN PARALLELING AND BY AT LEAST 6" WHEN CROSSING IS REQUIRED BETWEEN ELECTRIC AND OTHER SUBSTRUCTURES (WATER, SEWER, STORM DRAIN, ETC). THE CROSSING SEPARATION MAY BE REDUCED TO 3" WHEN ELECTRIC CONDUITS ARE CONCRETE ENCASED AND APPROVED BY THE ELECTRIC DEPARTMENT INSPECTOR.
3. A MINIMUM OF 5' WHEN PARALLELING AND 12" WHEN CROSSING PG&E GAS TRANSMISSION LINES.
4. A MINIMUM 12" SEPARATION BETWEEN ELECTRIC, TELEPHONE, GAS AND CABLE T.V. IS REQUIRED. THIS SEPARATION MAY NOT BE REDUCED UNLESS SPECIFICALLY APPROVED IN EACH INSTANCE BY THE UTILITIES INVOLVED.
5. THE CONTRACTOR TO PAY SPECIAL ATTENTION TO CROSSINGS WITH WATER MAINS, SANITARY SEWER, DRAIN PIPES, AND ANY OTHER OBSTRUCTIONS. CONTRACTOR TO PROVIDE THE MINIMUM REQUIRED COVER FOR ALL UTILITIES WITH A SMOOTH TRANSITION OVER OR UNDER OBSTRUCTION AS DIRECTED AND APPROVED BY ALL UTILITIES INVOLVED. THE APPROACH AND DEPARTURE FOR AN OBSTRUCTION SHALL BEGIN AND END 100 LINEAL FEET AWAY FROM THE OBSTRUCTION.
6. TRENCH DETAILS SHOWN ON THESE PLANS ARE FOR ELECTRIC. IF OTHER UTILITIES REQUEST JOINT TRENCH OCCUPATION, THE TRENCH DIMENSIONS MAY BE MODIFIED. IT IS THE DEVELOPERS RESPONSIBILITY TO CO-ORDINATE SUCH REQUESTS TO THE SATISFACTION OF ALL THE UTILITIES INVOLVED.
7. CONTRACTOR SHALL INSURE THAT ALL TRENCHING AND INSTALLATION OF ELECTRIC FACILITIES CONFORMS TO CAL. O.S.H.A. AND THE STATE OF CALIFORNIA P.U.C. GENERAL ORDER NO. 128 REQUIREMENTS.
8. THE CITY OF ROSEVILLE IS A MEMBER OF THE UNDERGROUND SERVICE ALERT SYSTEM, CALL BEFORE YOU DIG!! U.S.A PHONE #800-642-2444. ROSEVILLE ELECTRIC DISPATCH PHONE #916-774-5620.

REV	BY	DATE	DESCRIPTION	APPR.

ROSEVILLE ELECTRIC

**Washington Blvd Roundabout  
Lighting Design**

Washington Blvd and Lincoln

ENG. TMcAvoy    APPR. jmXxxxxx    SCALE: 1"=40'    DATE: 03/30/21

MAXIMO NO. 000000

ACCOUNT NO. 6001-6587-84701-290001-01070

DRAWING NO. 000-0000

SHEET 2 OF 2