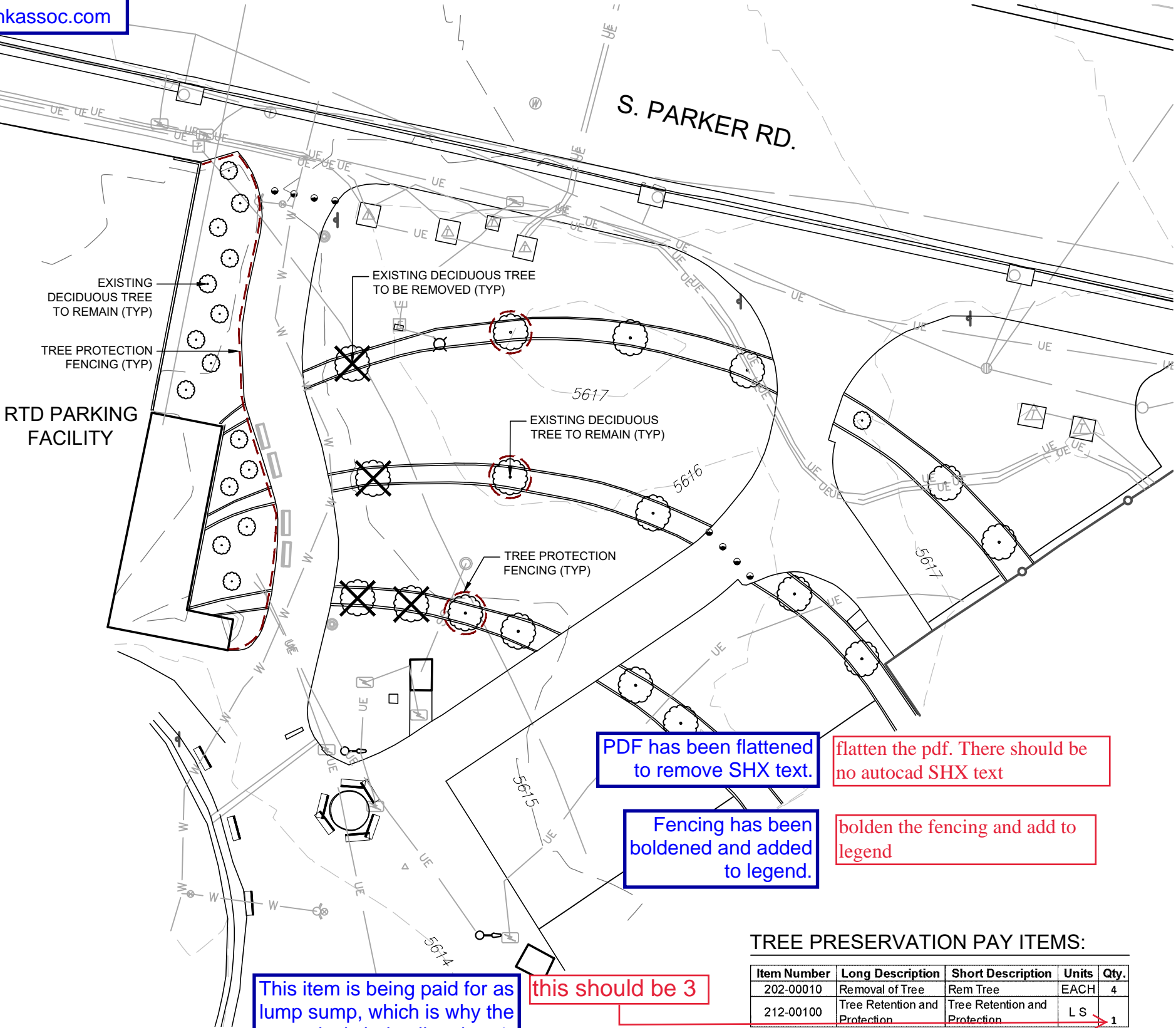
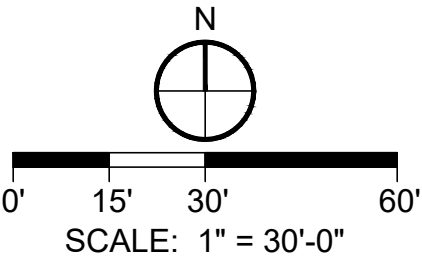


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LEGEND

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EX. DECIDUOUS TREE TO REMAIN
- EX. DECIDUOUS TREE TO BE REMOVED
- EXISTING TELECOM
- EXISTING ELECTRIC
- EXISTING SAN. SEWER
- EXISTING STORM
- EXISTING WATER LINE



TREE PRESERVATION NOTES:

- PRIOR TO THE BEGINNING OF CONSTRUCTION, ESTABLISH THE TREE PROTECTION ZONE (TPZ) BY INSTALLING TREE PROTECTION FENCING AROUND ALL EXISTING TREES TO REMAIN. LOCATE FENCING AT THE OUTSIDE OF THE DRIP LINE OF THE TREES OR AT A DISTANCE FROM THE TREE TRUNK OF ONE (1) FOOT OF RADIUS FOR EVERY INCH OF TRUNK DIAMETER, WHICHEVER IS GREATER. FOLLOWING INSTALLATION OF FENCING, REQUEST INSPECTION BY THE CITY OF AURORA PARKS & FORESTRY DIVISION (303-739-7177) OR AUTHORIZED DESIGNEE.
- TREE PROTECTION FENCING SHALL BE 4' HEIGHT, ORANGE MESH FENCING ATTACHED TO 'T' POSTS. FENCING SHALL BE INSPECTED AND MAINTAINED DAILY.
- CONTRACTORS SHALL BE RESPONSIBLE FOR ALL OF THEIR WORKERS, SUBCONTRACTORS AND SUPPLIERS UNDER THIS REQUIREMENT. WITHIN THE TREE PROTECTION ZONE, THE FOLLOWING CONSTRUCTION ACTIVITIES SHALL NOT BE ALLOWED EXCEPT AS NECESSARY TO EXECUTE DETAILS TP-2.0 & 2.1
 - EQUIPMENT USE AND STORAGE
 - MATERIAL DELIVERY OR STORAGE
 - VEHICLE TRAFFIC, PARKING, USE, OR STORAGE
 - SPREADING, EXCAVATING, COMPACTING OR STOCKPILING OF SOIL
 - CONCRETE WASH-OUT AREAS AND RUN-OFF FROM CONCRETE WASH-OUT AREAS
 - FOOT TRAFFIC
 - RUN-OFF CONTAINING HARMFUL LIQUIDS SUCH AS OIL, GAS, PAINT, SOLVENTS, FERTILIZER, ASPHALT, MORTAR, TAR, OR SIMILAR MATERIALS.
- VIOLATION OF THE TREE PROTECTION ZONE SHALL RESULT IN A FINE OF \$500 PER INCIDENCE AND MAY BE INCREASED BASED ON THE PERCENTAGE OF THE ZONE AFFECTED MULTIPLIED BY THE FULL VALUE OF THE TREE (OR TREES) ESTABLISHED PRIOR TO CONSTRUCTION. IF MORE THAN 30% OF THE TPZ IS DAMAGED, THE FINE SHALL BE THE FULL VALUE OF THE ADJACENT TREE (OR TREES). FOR THE PURPOSE OF THESE REQUIREMENTS, CONSTRUCTION FENCING (LOCATED AT THE LIMITS OF CONSTRUCTION) SHALL BE TREATED AS TREE PROTECTION FENCING AND SHALL ESTABLISH A TPZ FOR NEARBY TREES.
- DAMAGE TO THE MAIN TRUNKS OF TREES IS PROHIBITED. DAMAGE NOT PREVIOUSLY DOCUMENTED SHALL RESULT IN A FINE BASED ON THE PERCENTAGE OF THE CIRCUMFERENCE AFFECTED. DAMAGE GREATER THAN 30% OF THE CIRCUMFERENCE OR AFFECTING THE STRUCTURAL INTEGRITY OF THE TREE WILL RESULT IN A FINE EQUAL TO THE FULL VALUE OF THE TREE.
- LIMB REMOVAL IS PROHIBITED, UNLESS APPROVED PRIOR TO CONSTRUCTION OR AS AUTHORIZED BY THE CITY OF AURORA PARKS & FORESTRY DIVISION. LIMB REMOVAL, IF APPROVED, SHALL BE DONE PRIOR TO THE START OF CONSTRUCTION. DAMAGED BRANCHES SHALL BE PRUNED WITHIN 10 DAYS OF THE OCCURENCE UTILIZING ANSI A300 STANDARDS. UNAUTHORIZED LIMB DAMAGE OR REMOVAL CAN RESULT IN A FINE OF \$500 PER BRANCH AS MAY BE DETERMINED BY THE CONSTRUCTION MANAGER OR HIS FORESTRY CONSULTANT. LIMB REMOVAL AND ALL OTHER APPROVED PRUNING SHALL BE PERFORMED BY A PROFESSIONAL COMPANY THAT IS LICENSED BY THE CITY OF AURORA FORESTRY DIVISION.
- IF ROOTS GREATER THAN ONE (1) INCH DIAMETER REQUIRE CUTTING/REMOVAL, A CLEAN CUT SHALL BE ACCOMPLISHED BY A SHARP HAND TOOL. A MAXIMUM OF TWO (2) 3-INCH DIAMTER ROOTS PER TREE ARE PERMITTED FOR REMOVAL. THE REMOVAL OF ADDITIONAL ROOTS 3-INCHES OR GREATER IN DIAMETER REQUIRES APPROVAL OF THE CITY FORESTER OR AUTHORIZED DESIGNEE.
- EXISTING TREES DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE IMMEDIATELY REPAIRED AND IF DAMAGED BEYOND REPAIR, REPLACED PER THE MITIGATION SPECIFICATIONS OUTLINED IN SECTION IV, SUBSECTION A, ITEM A OF THE TREE PRESERVATION POLICY. THE MITIGATION PLAN FOR THESE TREES SHALL FOLLOW THAT APPROVED THROUGH THE SITE PLAN SUBMITTAL.
- PER CITY OF AURORA POLICY ON PRESERVATION OF EXISTING TREES, AND DUE TO SITE CONSTRAINTS, DECIDUOUS TREES TAGGED FOR REMOVAL SHALL BE MITIGATED VIA PAYMENT OF VALUE OF CALIPER INCHES LOST TO THE TREE PLANTING FUND.

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flatten the pdf. There should be no autocad SHX text

Fencing has been boldened and added to legend.

bolden the fencing and add to legend

TREE PRESERVATION PAY ITEMS:

Item Number	Long Description	Short Description	Units	Qty.
202-00010	Removal of Tree	Rem Tree	EACH	4
212-00100	Tree Retention and Protection	Tree Retention and Protection	L S	1

This item is being paid for as lump sump, which is why the quantity is being listed as 1.

this should be 3

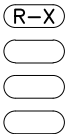
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Sheet Revisions

Date	Comments	Initials



DEPARTMENT OF PUBLIC WORKS

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AURORA, CO 80012
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As Constructed

No Revisions:

Revised:

Void:

NINE MILE PEDESTRIAN BRIDGE
SOUTH PLAZA (RTD SITE)
TREE MITIGATION PLAN

Designer:

WJP

Detailer:

WJP

Sheet Subset:

TREE MIT.

Structure

Numbers

Subset Sheets: TM-1 of 2

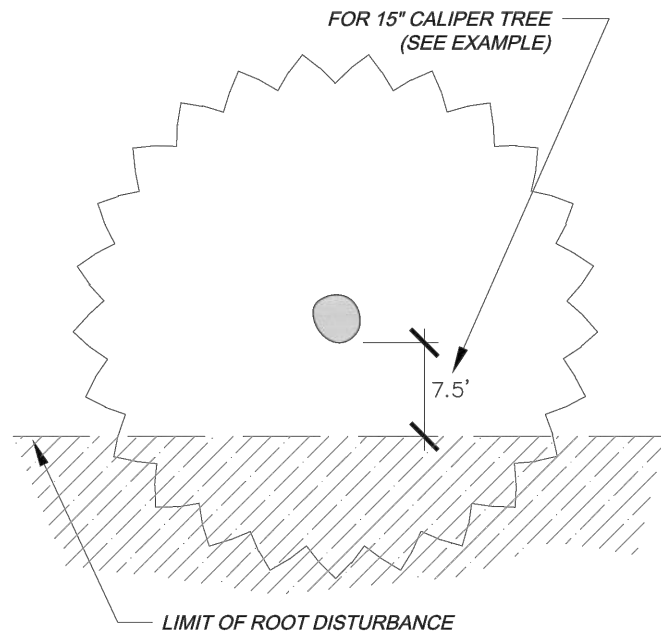
Project Number

Federal Aid No. STU-M055-056

CDOT Sub-Account No. 23594

Sheet Number

NOT FOR CONSTRUCTION

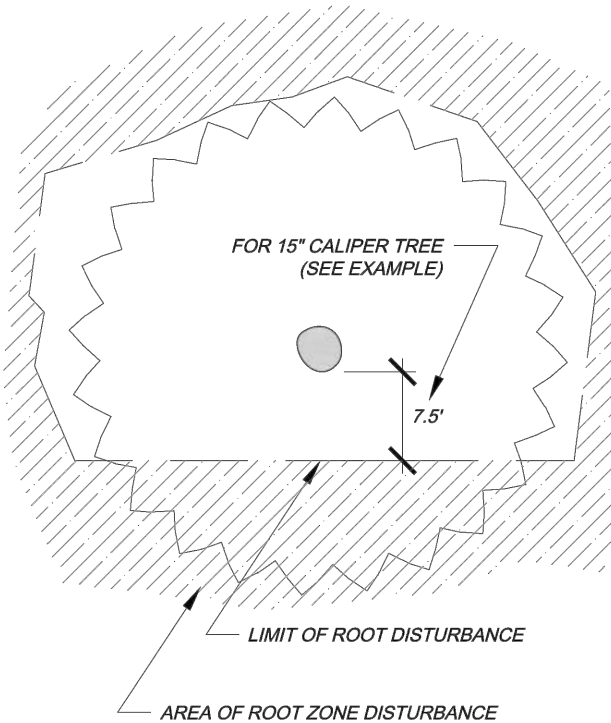


FORMULA FOR LIMIT OF DISTURBANCE:

ROOT ZONE DISTURBANCE SHALL NOT BE ALLOWED CLOSE TO THE TRUNK OF ANY TREE TO BE PRESERVED. MINIMUM DISTANCE BETWEEN THE TRUNK AND THE DISTURBANCE SHALL BE EQUAL TO 1/2 OF THE TREE'S DIAMETER CONVERTED TO FEET. (FOR EXAMPLE, FOR A TREE WITH A 15" DIAMETER TRUNK, THE DISTURBANCE CAN NOT BE CLOSER THAN 7.5 FEET FROM THE TRUNK.

REQUIRED TREATMENTS:

1. APPLY PREVENTATIVE SPRAY FOR MOUNTAIN PINE BEETLE (MPB) AND IPS TO PONDEROSA, AUSTRIAN & SCOTCH PINES. TREAT ALL BARK SURFACES, INCLUDING TOP BRANCHES.
2. IF DISTURBANCE LEAVES A CUT SLOPE, IMMEDIATELY APPLY MULCH AND WATER. IF DISTURBANCE IS A TRENCH, IMMEDIATELY BACKFILL AND WATER.
3. ONCE PER MONTH, EVALUATE TREE TO DETERMINE IF TREE IS LEANING OR IF BRANCHES / LEAVES ARE AFFECTED BY ROOT LOSS.
4. DO NOT FERTILIZE.
5. INSPECT TREE 2-3 TIMES PER YEAR FOR WATER NEEDS AND MONITOR FOR INSECTS.
6. PROVIDE SUPPLEMENTAL WATERING DURING 1-3 WINTERS.



LIMITATIONS OF ROOT ZONE DISTURBANCE:

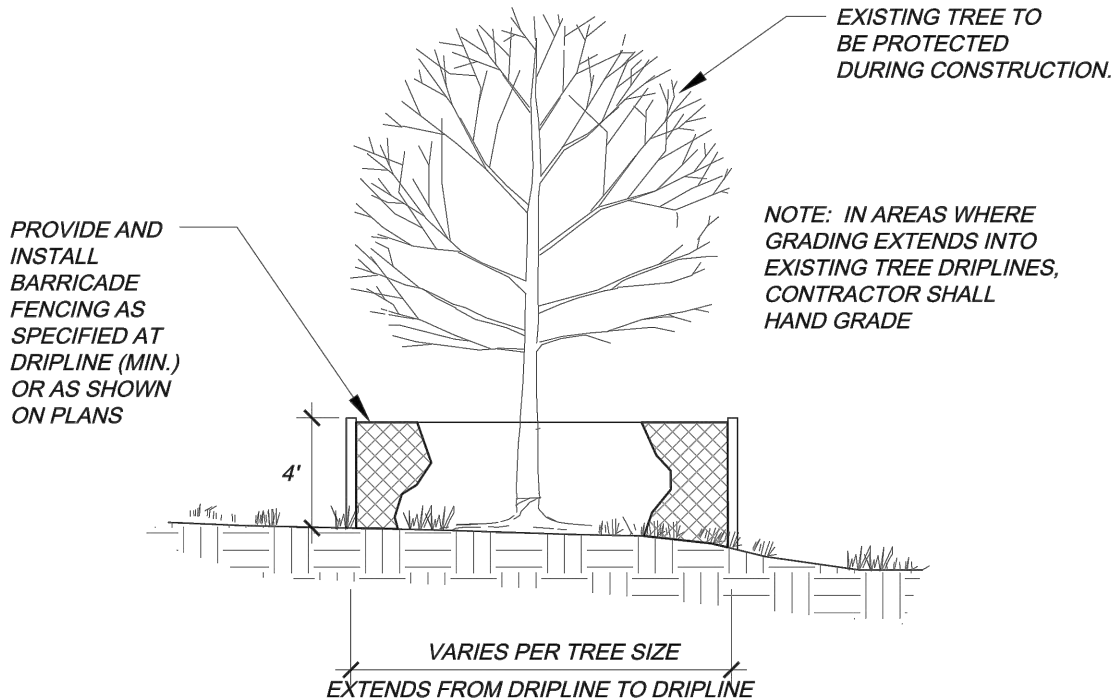
ROOT ZONE DISTURBANCE WITHIN THE DRIP LINE SHALL BE LIMITED TO ONE SIDE OF THE TRUNK OF TREES TO BE PRESERVED. MINIMUM DISTANCE BETWEEN THE TRUNK AND THE DISTURBANCE SHALL BE EQUAL TO 1/2 OF THE TREE'S DIAMETER CONVERTED TO FEET. (FOR EXAMPLE, FOR A TREE WITH A 15" DIAMETER TRUNK, THE DISTURBANCE CAN NOT BE CLOSER THAN 7.5 FEET FROM THE TRUNK.

REQUIRED TREATMENTS:

1. APPLY PREVENTATIVE SPRAY FOR MOUNTAIN PINE BEETLE (MPB) AND IPS TO PONDEROSA, AUSTRIAN & SCOTCH PINES. TREAT ALL BARK SURFACES, INCLUDING TOP BRANCHES.
2. IF DISTURBANCE LEAVES A CUT SLOPE WITHIN THE DRIPLINE, IMMEDIATELY APPLY MULCH AND WATER.
3. APPLY 3"-5" OF ORGANIC MULCH OVER THE AREA WITHIN THE DRIPLINE
4. EVERY 1-2 WEEKS, APPLY 50-100 GALLONS OF SUPPLEMENTAL WATER.
5. PROVIDE SUPPLEMENTAL WATER DURING 1-3 WINTERS
6. REGULARLY EVALUATE TREE TO DETERMINE IF TREE IS LEANING OR IF BRANCHES / LEAVES ARE AFFECTED BY ROOT LOSS.
7. INSPECT TREE 2-3 TIMES PER YEAR FOR WATER NEEDS AND MONITOR FOR INSECTS.
8. INSTALL STAKING OR SUPPORT FOR SMALLER PINE TREES.

1 TREE PRESERVATION MEASURES – 1 SIDE
SCALE: NOT TO SCALE

2 TREE PRESERVATION MEASURES – 2 SIDES
SCALE: NOT TO SCALE



3 TREE PROTECTION FENCING
SCALE: NOT TO SCALE




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(R-X)

Date

Comments

Initials

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PHONE: (303) 739-7300

As Constructed

No Revisions:

Revised:

Void:

NINE MILE PEDESTRIAN BRIDGE
SOUTH PLAZA (RTD SITE)
TREE MITIGATION DETAILS

Designer: WJP

Detailer: WJP

Sheet Subset: TREE MIT.

Structure Numbers

Subset Sheets: TM-2 of 2

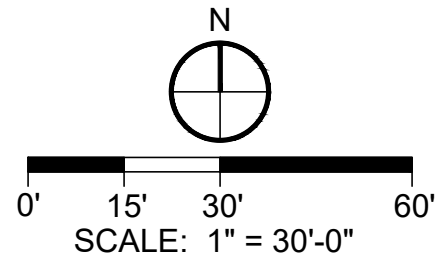
Project Number

Federal Aid No. STU-M055-056

CDOT Sub-Account No. 23594

Sheet Number

NOT FOR CONSTRUCTION



LEGEND

	CONCRETE WALK
	SOD - RTF SOD
	SHRUBS & PERENNIALS
	ORNAMENTAL GRASSES
	CONCRETE MOW BAND
	BENCH (RELOCATED)
	TRASH RECEPTACLE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EX. DECIDUOUS TREE TO REMAIN
	EXISTING TELECOM
	EXISTING ELECTRIC
	EXISTING SAN. SEWER
	EXISTING STORM LINE
	EXISTING WATER LINE

GENERAL LANDSCAPE NOTES:

- SOIL PREPARATION SHALL BE (4) CUBIC YARDS OF ORGANIC MATERIAL PER 1,000 S.F. OF AREA MINIMUM.
- (1) EXISTING FREE-STANDING LIGHT SHALL REMAIN AS PART OF THIS PROJECT. POLE-MOUNTED AREA LIGHTS SHALL BE MOUNTED ON THE BRIDGE'S STAIRWAYS - SEE BRIGHT LIGHTING PLAN: SOUTH.
- SURFACE MATERIAL OF WALKS AND PLAZAS SHALL BE CONCRETE WITH DECORATIVE SCORING TO MATCH EXISTING CROSS-HATCH PATTERN OF SITE.
- ALL UTILITY EASEMENTS SHALL REMAIN UNOBSTRUCTED AND FULLY ACCESSIBLE ALONG THEIR ENTIRE LENGTH FOR MAINTENANCE EQUIPMENT ENTRY.
- THE DEVELOPER, HIS SUCCESSORS AND ASSIGNS, SHALL BE RESPONSIBLE FOR INSTALLATION, MAINTENANCE, AND REPLACEMENT OF ALL LANDSCAPING MATERIALS SHOWN OR INDICATED ON THE APPROVED SITE PLAN OR LANDSCAPE PLAN ON FILE IN THE PLANNING DEPARTMENT. ALL LANDSCAPING WILL BE INSTALLED AS DELINEATED ON THE PLAN, PRIOR TO ISSUANCE OF CERTIFICATES OF OCCUPANCY.
- ALL LANDSCAPED AREAS AND PLANT MATERIAL, EXCEPT FOR NON-IRRIGATED NATIVE, RESTORATIVE, AND DRYLAND GRASS AREAS THAT COMPLY WITH REQUIREMENTS FOUND IN SEC. 146-1429 AND/OR SEC. 146-1435 MUST BE WATERED BY AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM. IRRIGATION SYSTEM DESIGN, INSTALLATION, AND MAINTENANCE SHALL CONFORM TO REQUIREMENTS FOUND IN THE CITY OF AURORA IRRIGATION ORDINANCE.
- A 5' CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF PROPOSED AND EXISTING FIRE HYDRANTS.
- MULCHING FOR SHRUB BEDS TO BE RED CEDAR MULCH OR EQUAL AT MIN. 3" DEEP.

LANDSCAPE PAY ITEMS:

Item Number	Long Description	Short Description	Units	Qty.
212-00040	Soil Preparation (Lawn)	Soil Preparation (Lawn)	ACRE	0.06
212-00050	Sod	Sod	SF	2,290
213-00067	Rock Mulch (Weed Free)	Rock Mulch (Weed Free)	SF	1,755
213-00300	Concrete Landscape Border	Conc Landscape Border	LF	131
214-00000	Landscape Maintenance	Landscape Maintenance	L S	1
214-00350	Deciduous Shrub (5 Gallon Container)	Deciduous Shrub (5 Gal)	EACH	23
214-00508	Evergreen Tree (8 Foot) (Ball and Burlap)	Evergreen Tree (8 Ft)(B-B)	EACH	3
214-00630	Evergreen Shrub (3 Gallon Container)	Evergreen Shrub (3 Gal)	EACH	19
214-00910	Perennials (1 Gallon Container)	Perennials (1 Gal)	EACH	211
622-00350	Trash Receptacle	Trash Receptacle	EACH	1



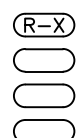
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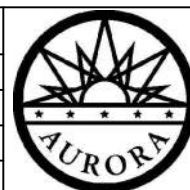


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Sheet Revisions

Date	Comments	Initials



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As Constructed

No Revisions:

Revised:

Void:

NINE MILE PEDESTRIAN BRIDGE
SOUTH PLAZA (RTD SITE)
OVERALL LANDSCAPE PLAN

Designer:	WJP	Structure Numbers	
Detailer:	WJP		
Sheet Subset:	LANDSCAPE	Subset Sheets:	L1 of 4

Project Number

Federal Aid No. STU-M055-056

CDOT Sub-Account No. 23594

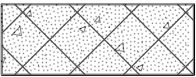
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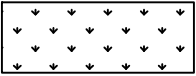
RTD PARKING
FACILITY

S. PARKER RD.

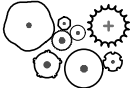
LEGEND



CONCRETE WALK



SOD - RTF SOD



SHRUBS & PERENNIALS



ORNAMENTAL GRASSES



CONCRETE MOW BAND



BENCH (RELOCATED)



TRASH RECEPTACLE



EXISTING MAJOR CONTOUR



EXISTING MINOR CONTOUR



EX. DECIDUOUS TREE TO REMAIN

UT

EXISTING TELECOM

UE

EXISTING ELECTRIC

SS

EXISTING SAN. SEWER

<

EXISTING STORM LINE

W

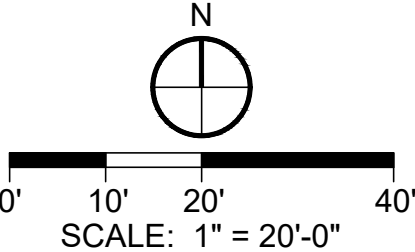
EXISTING WATER LINE

PLANT SCHEDULE:

EVERGREEN TREES					
Count	PLANT ID	BOTANICAL NAME	COMMON NAME	SIZE	TYPE
3	THOC	Thuja occidentalis 'Smaragd'	EMERALD GREEN ARBORVITAE	8' HT.	B&B
SHRUBS					
Count	PLANT ID	BOTANICAL NAME	COMMON NAME	SIZE	TYPE
9	COSE	Cornus sericea 'Arctic Fire'	ARCTIC FIRE DOGWOOD	5 GAL	CONT.
3	HYAR	Hydrangea arborescens 'Annabelle'	ANNABELLE HYDRANGEA	5 GAL	CONT.
3	LIVI	Ligustrum x vicaryi 'Golden Ticket'	GOLDEN TICKET PRIVET	5 GAL	CONT.
3	PEAT	Perovskia atriplicifolia	RUSSIAN SAGE	5 GAL	CONT.
19	PIMU	Pinus mugo 'White Bud'	WHITE BUD MUGO PINE	5 GAL	CONT.
5	ROSE	Rosa x 'Radsunny' PP #18,562	SUNNY KNOCK OUT ROSE	5 GAL	CONT.
PERENNIALS					
Count	PLANT ID	BOTANICAL NAME	COMMON NAME	SIZE	TYPE
10	ACMO	Achillea 'Moonshine'	MOONSHINE YARROW	1 GAL	CONT.
22	AGCA	Agastache cana 'Sinning'	SONORAN SUNSET HYSSOP	1 GAL	CONT.
66	PATE	Pachydandra terminalis 'Green Carpet'	'GREEN CARPET' PACHYSANDRA	1 GAL	CONT.
ORNAMENTAL GRASSES					
Count	PLANT ID	BOTANICAL NAME	COMMON NAME	SIZE	TYPE
15	BOGR	Bouteloua gracilis 'Blonde Ambition'	BLUE GRAMA GRASS	1 GAL	CONT.
94	CAAC	Calamagrostis x acutiflora 'Karl Foerster'	FEATHER REED GRASS	1 GAL	CONT.

Pachysandra has been substituted for species that is on the water-wise plant list (Autumn Joy Sedum; Sedum spectabile 'Autumn Joy')

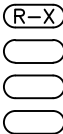
great job updating the planting. I have highlighted 4 species that are not on the water-wise plant list. you may have 25% of your species not on this list. I recommend sub the Pachydandra to be in code compliance



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Sheet Revisions

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As Constructed

No Revisions:

Revised:

Void:

NINE MILE PEDESTRIAN BRIDGE
SOUTH PLAZA (RTD SITE)
PLANTING PLAN

Designer:

WJP

Detailer:

WJP

Sheet Subset:

LANDSCAPE

Structure

Numbers

Subset Sheets:

L2 of 4

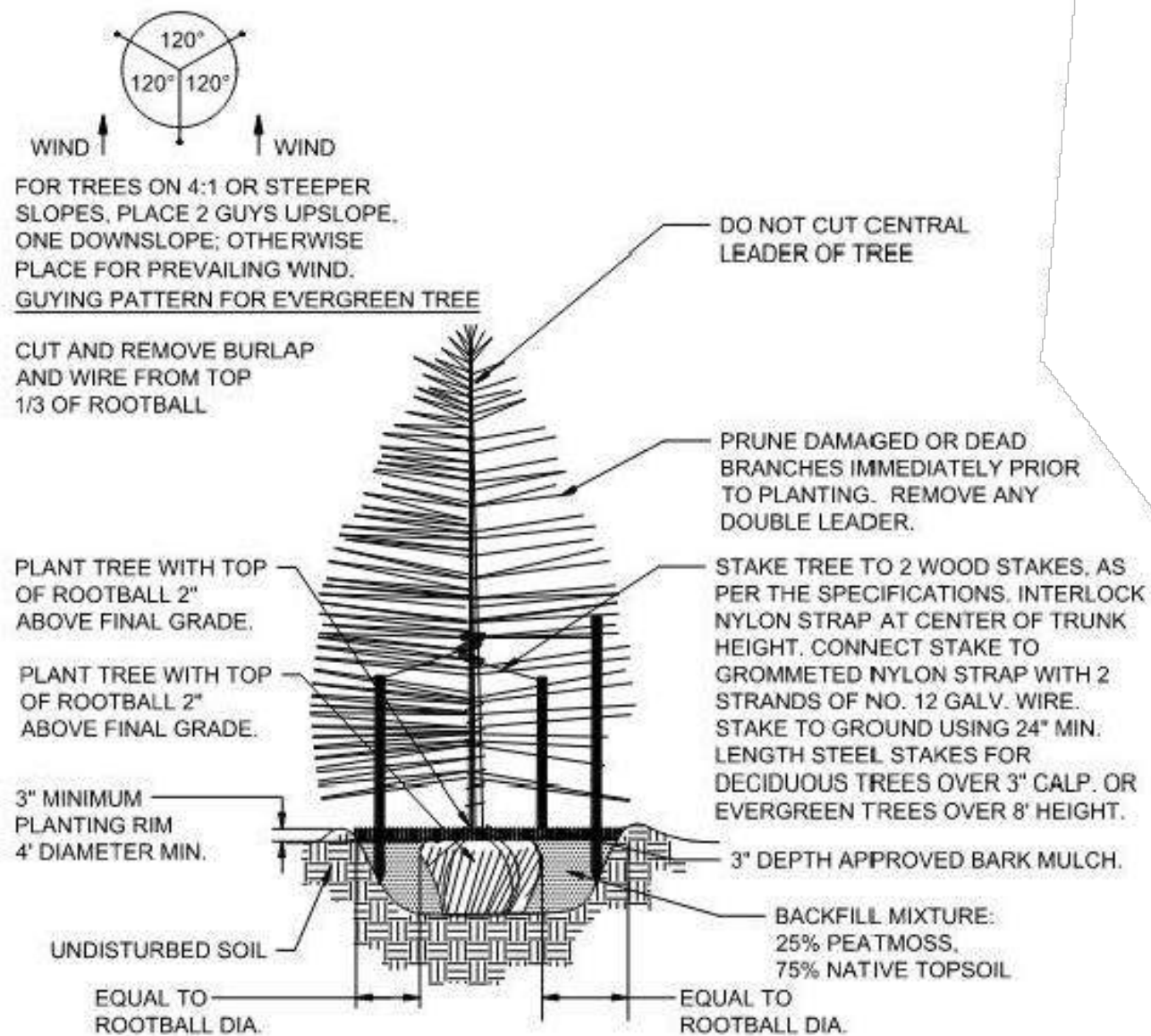
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Federal Aid No. STU-M055-056

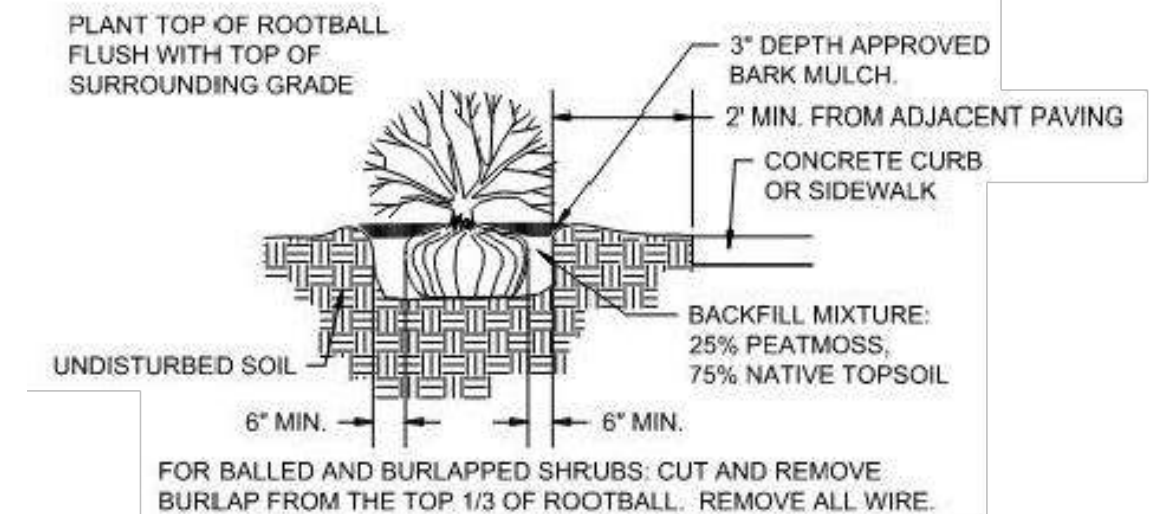
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Sheet Number

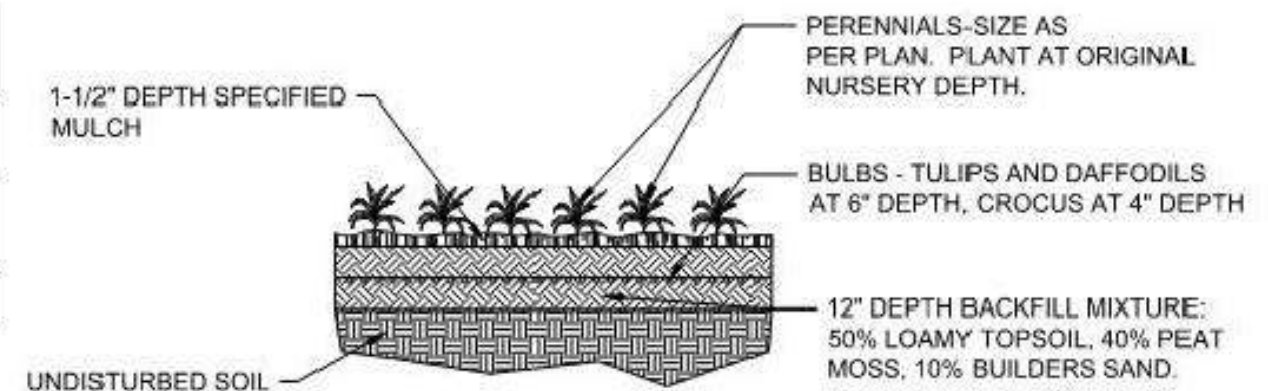
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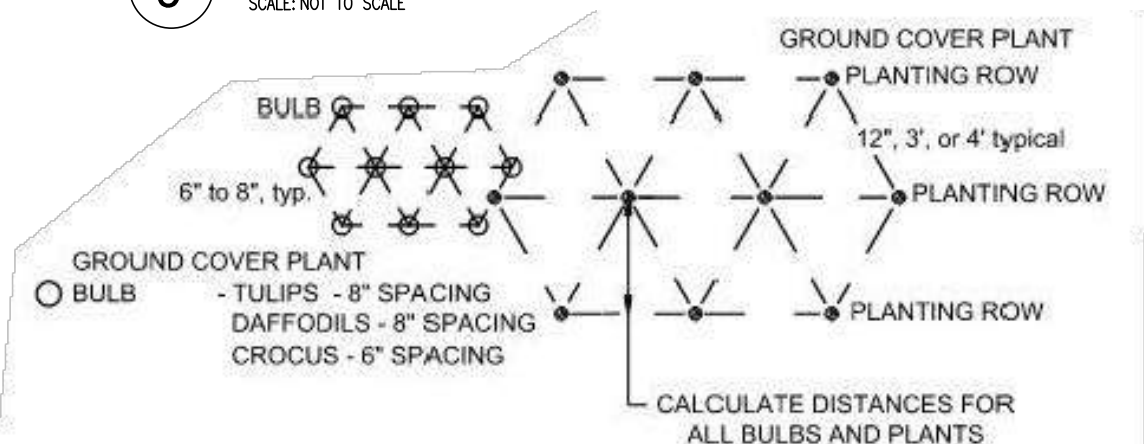
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2 SHRUB PLANTING DETAIL
SCALE: NOT TO SCALE



3 PERENNIAL / GROUNDCOVER PLANTING DETAIL
SCALE: NOT TO SCALE



4 TRIANGULAR PLANT SPACING DIAGRAM
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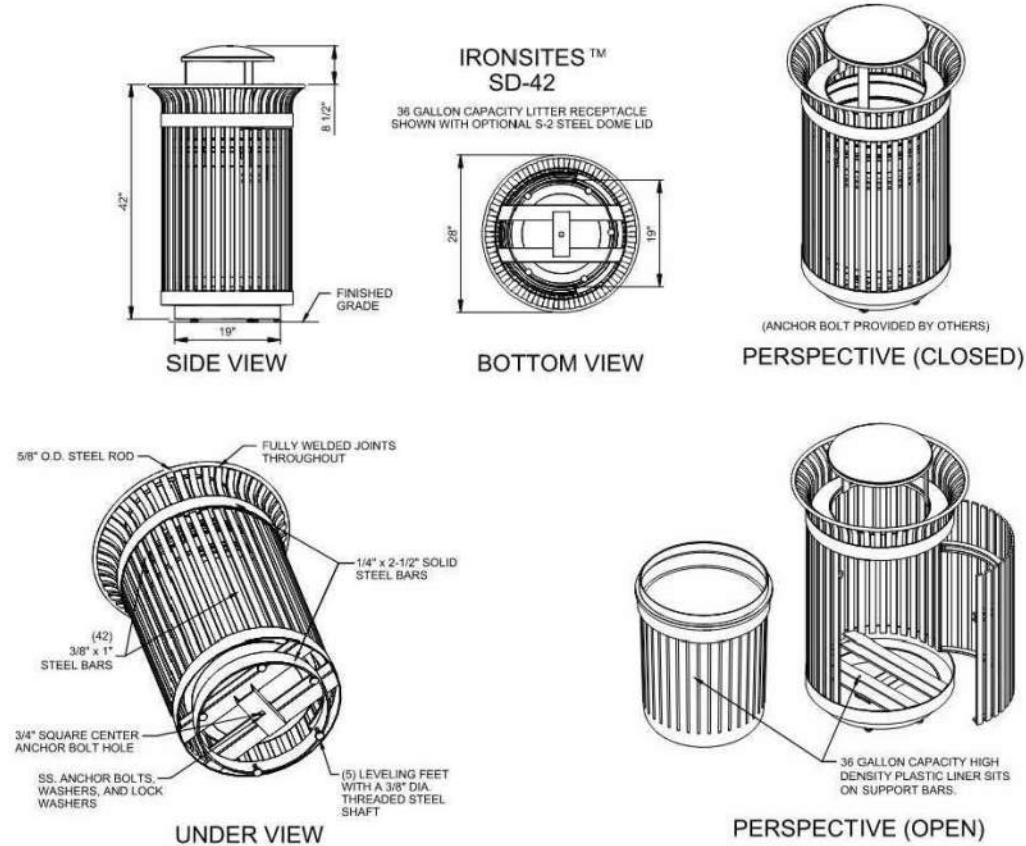
(R-X)	Sheet Revisions		
	Date	Comments	Initials
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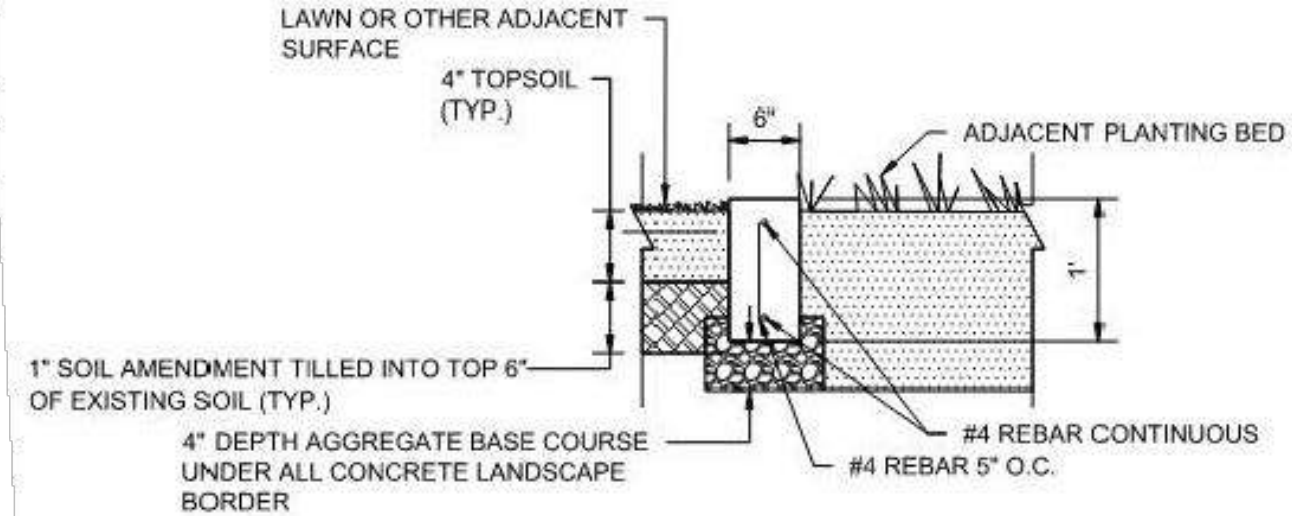
DEPARTMENT OF PUBLIC WORKS
15151 E. ALAMEDA PARKWAY
AURORA, CO 80012
PHONE: (303) 739-7300

As Constructed	NINE MILE PEDESTRIAN BRIDGE SOUTH PLAZA (RTD SITE) LANDSCAPE DETAILS			Project Number
	No Revisions:	Designer: WJP	Structure Numbers	Federal Aid No. STU-M055-056
Revised:		Detailer: WJP		CDOT Sub-Account No. 23594
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NOT FOR CONSTRUCTION



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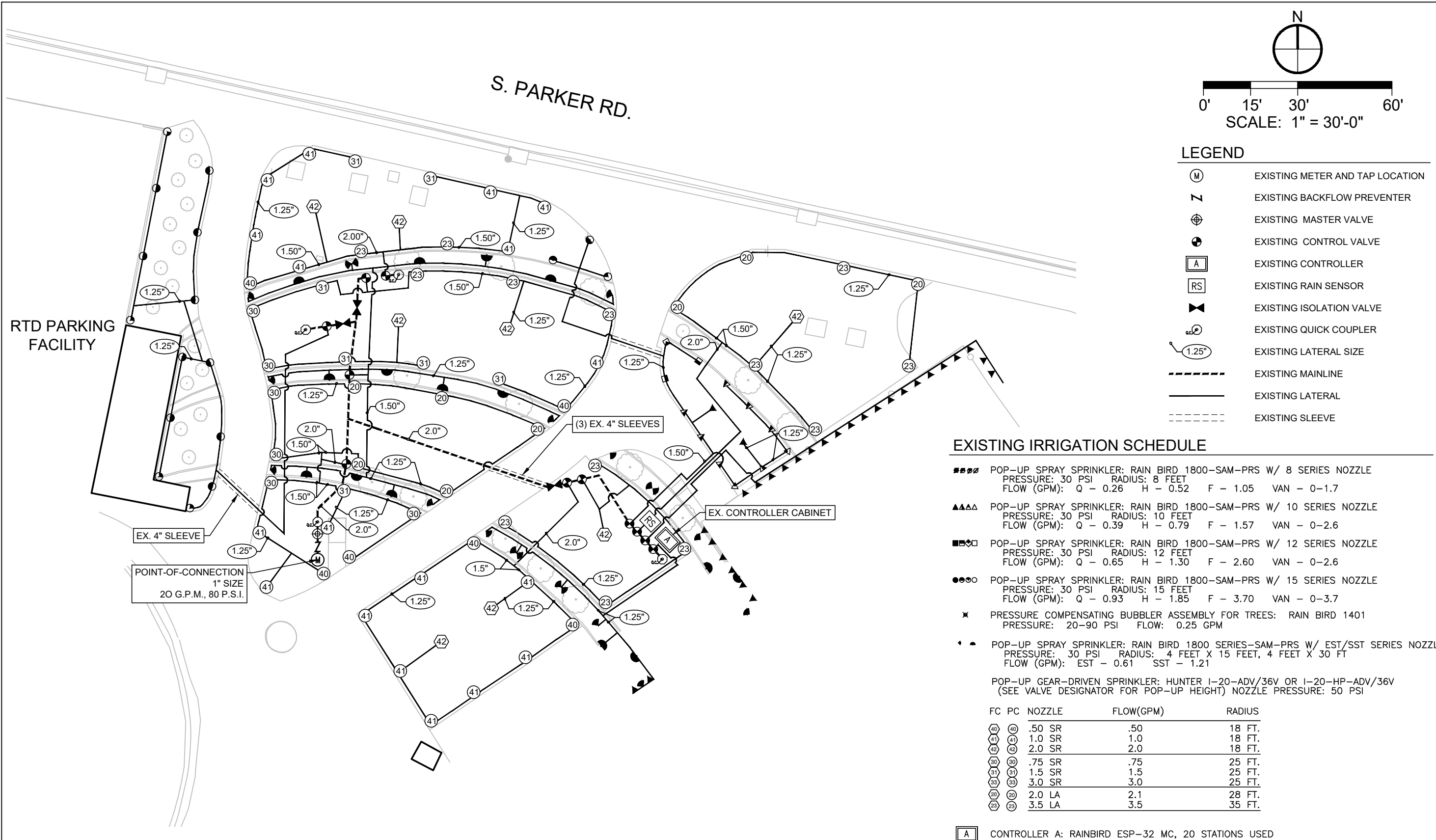
2 CONCRETE MOW STRIP DETAIL
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Horizontal Scale: 1" = 20' Vertical Scale: 1" = 20'							Revised:		Designer: WJP	Structure Numbers	CDOT Sub-Account No. 23594	
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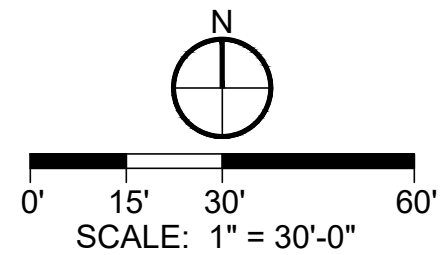
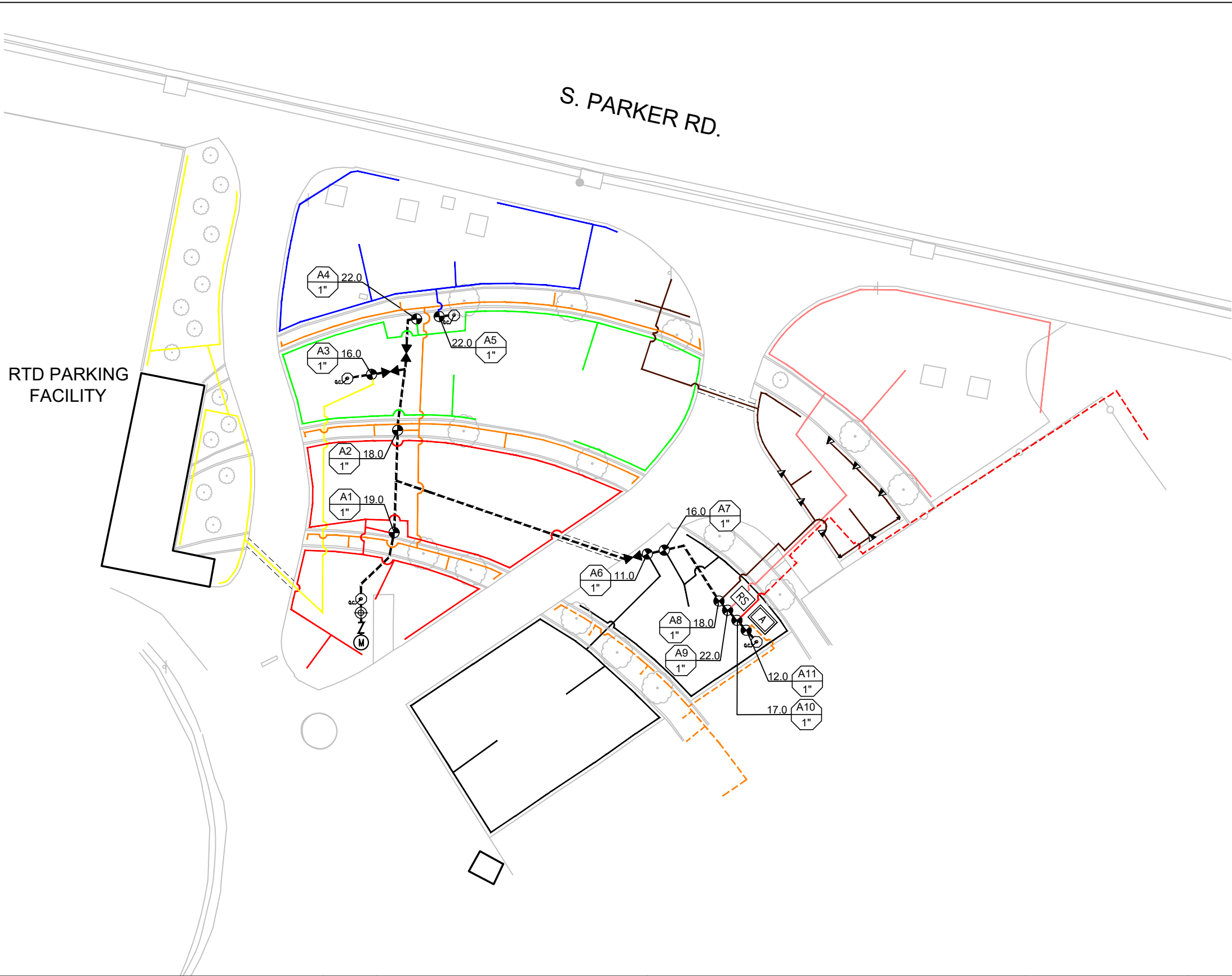
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As Constructed	NINE MILE PEDESTRIAN BRIDGE SOUTH PLAZA (RTD SITE) EXISTING IRRIGATION EQUIPMENT PLAN			Project Number
	No Revisions:	Revised:	Void:	Federal Aid No. STU-M055-056
				CDOT Sub-Account No. 23594
				Sheet Number

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- LEGEND**
- EXISTING METER AND TAP LOCATION
 - EXISTING BACKFLOW PREVENTER
 - EXISTING MASTER VALVE
 - EXISTING CONTROL VALVE
 - EXISTING CONTROLLER
 - EXISTING RAIN SENSOR
 - EXISTING ISOLATION VALVE
 - EXISTING QUICK COUPLER
 - EXISTING VALVE CALLOUT (INCLUDES ZONE #, GPM, AND VALVE SIZE)
 - EXISTING MAINLINE
 - EXISTING SLEEVE
 - EXISTING LATERAL - ZONE 1
 - EXISTING LATERAL - ZONE 2
 - EXISTING LATERAL - ZONE 3
 - EXISTING LATERAL - ZONE 4
 - EXISTING LATERAL - ZONE 5
 - EXISTING LATERAL - ZONE 6
 - EXISTING LATERAL - ZONE 7
 - EXISTING LATERAL - ZONE 8
 - EXISTING LATERAL - ZONE 9
 - EXISTING LATERAL - ZONE 10
 - EXISTING LATERAL - ZONE 11

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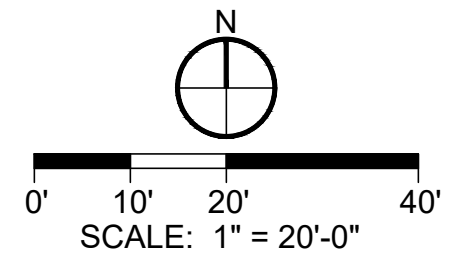
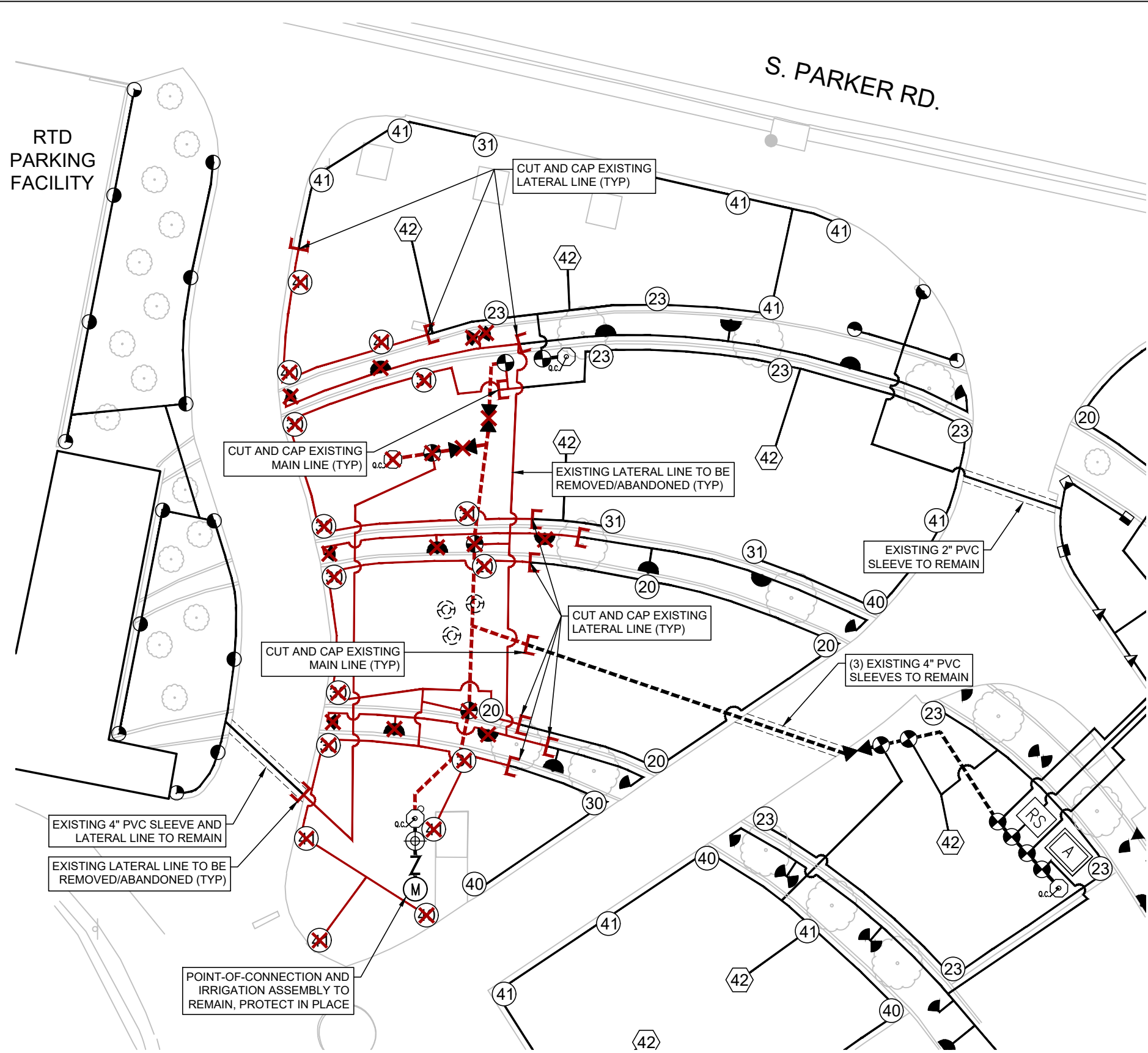
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Revised:		Designer: WJP	Structure Numbers	CDOT Sub-Account No. 23594	
Void:		Detailer: WJP			
		Sheet Subset: IRRIGATION	Subset Sheets: IR-2 of 7	Sheet Number	

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- LEGEND**
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 - EX. BACKFLOW PREVENTER (TO REMAIN)
 - EX. MASTER VALVE (TO REMAIN)
 - EX. CONTROL VALVE (TO REMAIN)
 - EX. CONTROLLER (TO REMAIN)
 - EX. RAIN SENSOR (TO REMAIN)
 - EX. ISOLATION VALVE (TO REMAIN)
 - EX. QUICK COUPLER (TO REMAIN)
 - EX. MAINLINE (TO REMAIN)
 - EX. LATERAL (TO REMAIN)
 - EXISTING SLEEVE (TO REMAIN)
 - EX. MAINLINE (TO BE REMOVED)
 - EX. LATERAL (TO BE REMOVED)
 - EX. IRRIGATION COMPONENT (TO BE REMOVED/ABANDONED)
 - CAP EX. LATERAL DURING CONSTRUCTION

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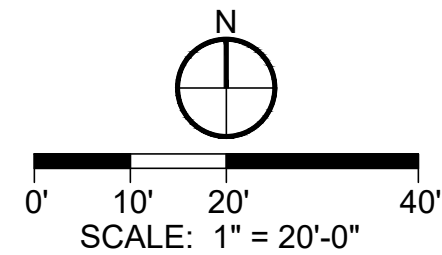
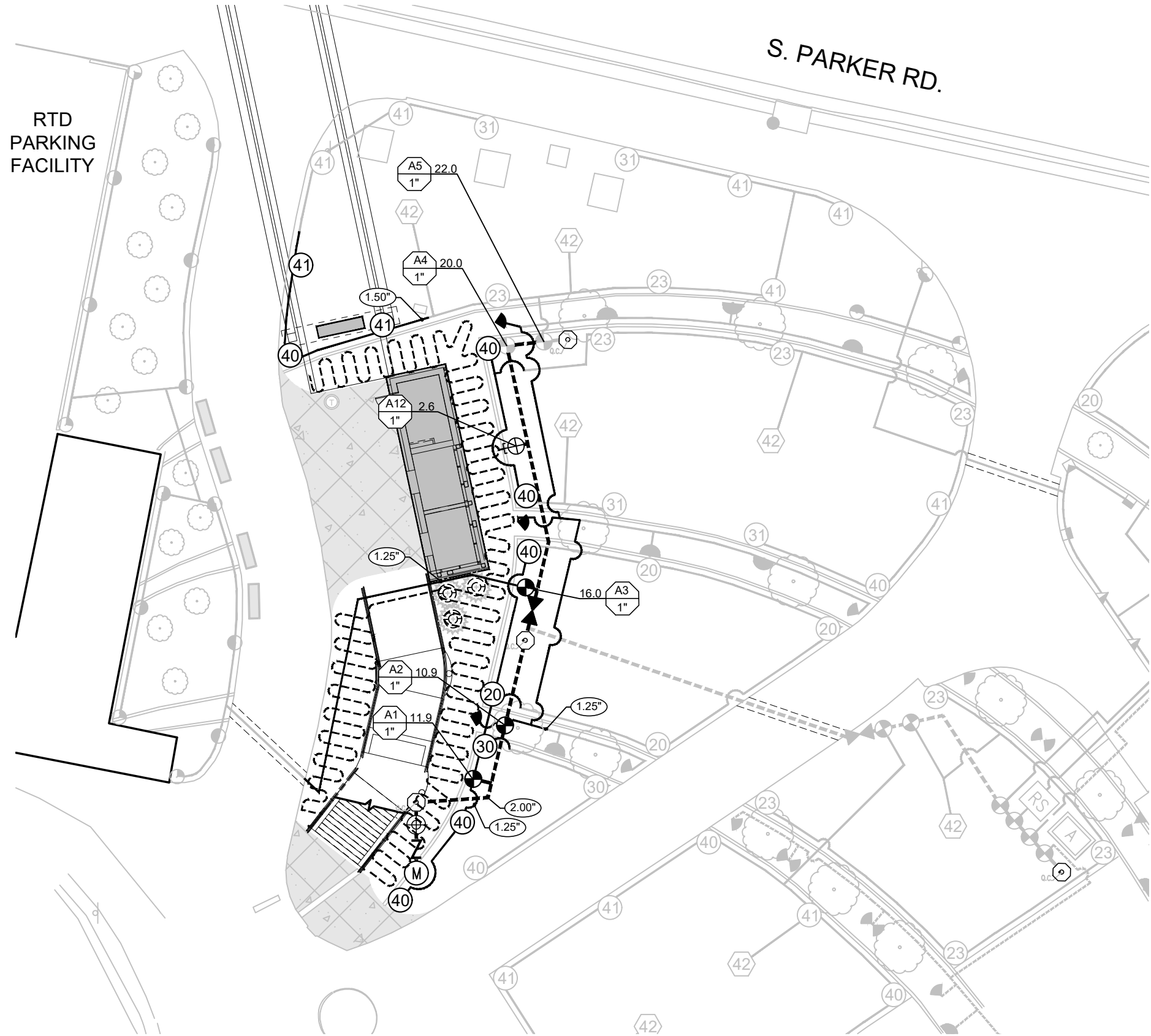
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		Structure Numbers			
		Subset Sheets: IR-3 of 7			

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LEGEND

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- EX. CONTROL VALVE (TO REMAIN)
- EX. CONTROLLER (TO REMAIN)
- EX. RAIN SENSOR (TO REMAIN)
- ISOLATION VALVE
- QUICK COUPLER
- EX. MAINLINE (TO REMAIN)
- EX. LATERAL (TO REMAIN)
- PROPOSED MAINLINE
- PROPOSED LATERAL
- PROPOSED DRIP LINE
- DRIP ZONE VALVE
- TREE DRIPPER RING
- EX. GEAR DRIVEN SPRINKLER (TO REMAIN - SEE EX. SCHEDULE)
- PROPOSED GEAR DRIVEN SPRINKLER (SEE PROP. SCHEDULE)
- PROPOSED POP-UP SPRAY SPRINKLER (SEE PROP. SCHEDULE)

IRRIGATION PAY ITEMS:


Item Number	Long Description	Short Description	Units	Qty.
214-00010	Temporary Irrigation	Temp Irrigation	L S	1
623-00162	Drip Emitter Tubing	Drip Emit Tubing	LF	950
623-00164	Drip Emitter	Drip Emit	EACH	304
623-00165	Emitter Valve Assembly	Emit Valve Assembly	EACH	1
623-00205	4 Inch Pop-Up Spray Sprinkler	4 In Pop-Up Spray Spr	EACH	10
623-00600	1-1/2 Inch Plastic Pipe	1-1/2 In Plastic Pipe	LF	45
623-00601	1 Inch Plastic Pipe	1-1/2 In Plastic Pipe	LF	116
623-00602	2 Inch Plastic Pipe	1-1/2 In Plastic Pipe	LF	100
623-04008	1 Inch Quick-Coupler Valve	1 In Quick-Coupler	EACH	1

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NINE MILE PEDESTRIAN BRIDGE
SOUTH PLAZA (RTD SITE)
PROPOSED IRRIGATION PLAN

Project Number	
Federal Aid No. STU-M055-056	
CDOT Sub-Account No. 23594	
Sheet Number	

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GENERAL IRRIGATION NOTES:












1. THE SYSTEM DESIGN ASSUMES A MINIMUM DYNAMIC PRESSURE FOR THE IRRIGATION SYSTEM OF 80 PSI AT THE 1-INCH POINT-OF-CONNECTION (P.O.C.). VERIFY PRESSURE AND FLOW ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES WITH THE ASSUMPTIONS TO THE LANDSCAPE ARCHITECT.
2. CONTRACTOR IS TO COORDINATE WITH CLIENT AND MAINTENANCE STAFF FOR THE CONNECTION AND INSTALLATION OF ALL REQUIRED IRRIGATION EQUIPMENT THAT IS NOT CALLED OUT ON PLANS.
3. CONTRACTOR SHALL TEST THE EXISTING IRRIGATION SYSTEM PRESSURE DOWNSTREAM OF THE BACKFLOW PREVENTER. IF PRESSURE REGULATION FOR THE ENTIRE IRRIGATION SYSTEM IS REQUIRED, UTILIZE THE EQUIPMENT SHOWN IN THE IRRIGATION SCHEDULE. IF PRESSURE REGULATION FOR THE ENTIRE IRRIGATION SYSTEM IS NOT REQUIRED, NO EQUIPMENT SHALL BE INSTALLED. CONTRACTOR TO SUBMIT RESULTS OF PRESSURE TEST TO THE OWNER / ENGINEER.
4. ANY DRIP IRRIGATION VALVES NEEDED FOR CONTRACTOR INSTALLATION WILL REQUIRE 30 PSI AND SHALL BE A RAINBIRD XCZ-LF-100-PRF (0.20-10 GPM) WITH A PRECIPITATION RATE OF 0.50 INCHES PER HOUR.
5. FINAL IRRIGATION LAYOUT WILL NOT EXCEED A MAXIMUM IRRIGATION TIME OF 16 HOURS THREE DAYS A WEEK.
6. NO WORK SHALL OCCUR UNTIL ALL EXISTING UNDERGROUND UTILITIES HAVE BEEN LOCATED AND MARKED. CALL LOCAL UTILITY LOCATING SERVICE AT 719-448-4800 AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION. IRRIGATION WORK SHALL NOT BEGIN UNTIL FINAL GRADE HAS BEEN APPROVED.
7. NO DRIP EMITTERS SHALL BE INSTALLED UNTIL ALL PLANT MATERIAL HAS BEEN INSTALLED.
8. ALL DRAWINGS ARE DIAGRAMMATIC IN NATURE. IN SOME CASES, LINES OR EQUIPMENT ARE SHOWN OVER WALKS OR DRIVES, THIS IS FOR CLARITY ONLY.
9. FINAL IRRIGATION DESIGN SHALL BE CAPABLE OF SUPPLYING A SUFFICIENT NUMBER OF INCHES OF WATER PER WEEK TO THE TOTAL IRRIGATED AREA IN ORDER TO MAINTAIN THE HEALTH OF ALL PLANTINGS.
10. THE IRRIGATION CONTRACTOR SHALL NOT INSTALL THE IRRIGATION SYSTEM WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS OR GRADE DIFFERENCES EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE IRRIGATION DESIGN OR IF DISCREPANCIES IN CONSTRUCTION DETAILS, LEGEND NOTES, OR SPECIFICATIONS ARE DISCOVERED. ALL SUCH OBSTRUCTIONS OR DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
11. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE ELECTRICAL CONNECTION TO THE EXISTING CONTROLLER AND WIRING AS NEEDED TO ALL VALVES.
13. DRIP EMITTERS ARE TO BE INSTALLED AS FOLLOWS:

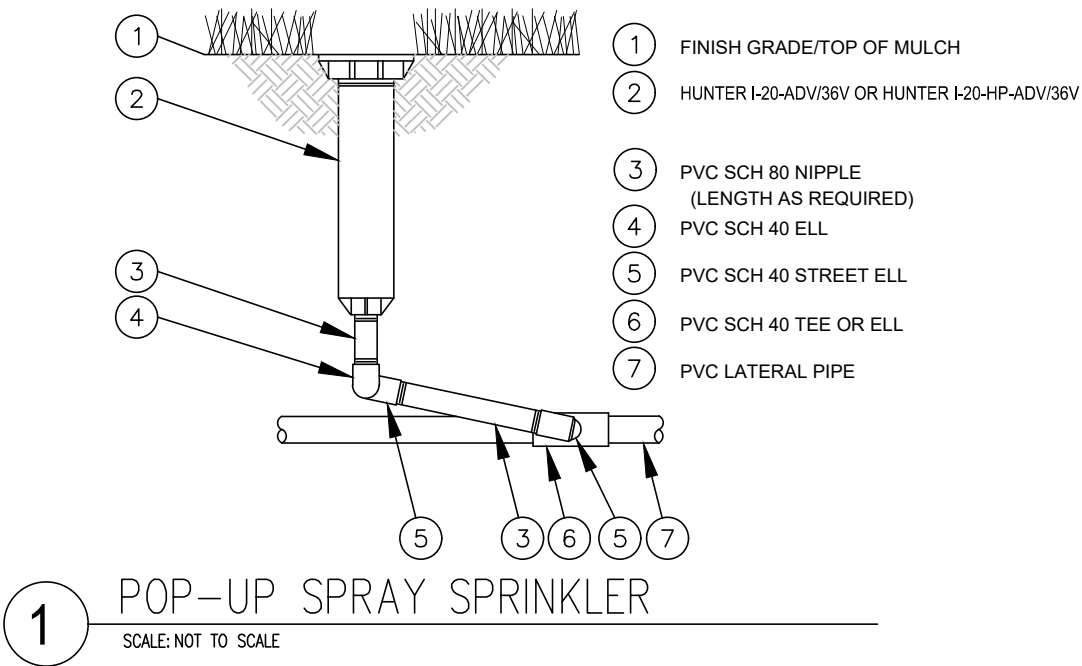
13.1 TREES: THREE (3) 0.5 GPH EMITTERS



13.2 SHRUBS: TWO (2) 0.5 GPH EMITTERS.

13.3 GRASSES AND PERENNIALS: ONE (1) 0.5 GPH EMITTER
14. ROCK MULCH SHALL BE PLACED AFTER EMITTERS ARE INSTALLED.
15. ALL DRIP LINE ENDS SHALL INCLUDE END CAPS.
17. EXCESS DIRT GENERATED BY TRENCHING OPERATIONS SHALL BE DISPOSED OF BY CONTRACTOR AT OFF-SITE LOCATION AT NO ADDITIONAL COST TO OWNER.
19. CONTRACTOR SHALL REPLACE AT HIS EXPENSE ANY HEAD DAMAGED OR BROKEN DUE TO CONSTRUCTION ACTIVITIES THAT ARE NOT SHOWN ON THESE PLANS FOR REPAIR, REPLACEMENT, OR RELOCATION.

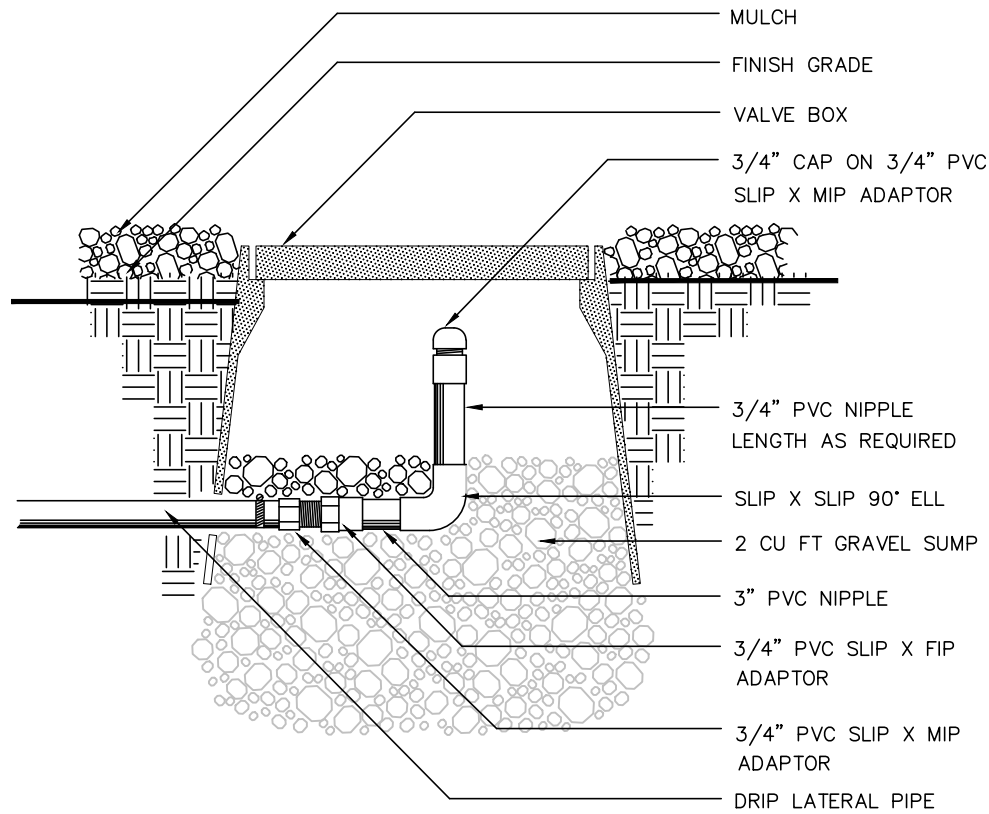
PROPOSED IRRIGATION EQUIPMENT SCHEDULE

SYMBOL	EQUIPMENT	DESCRIPTION
	QUICK COUPLER	RAINBIRD 5 LRC
	Q.C. KEY	RAINBIRD 4-K
	DRIP ZONE CONTROL KIT	RAINBIRD DRIP VALVE
		RAINBIRD CZ-LF-100-PRF (0.20 - 10 GPM)
	2" GATE VALVE	BRASS GATE VALVE
	2" MAINLINE	CL 200 PVC
	LATERAL LINE	CL 80 PVC
	DRIP IRRIGATION SUPPLY	RAINBIRD XFD500 WITH MDCFCAP
	DRIP IRRIGATION EMITTER	RAINBIRD XB-T-05-PC
	DRIP IRRIGATION DISTRIBUTION	RAINBIRD XQ-1000-B
	POP-UP ROTOR SPRINKLER	HUNTER I-20-ADV/36V OR I-20-HP-ADV/36V PC - 2.0 LA NOZZLE, 28 FT RADIUS
	POP-UP ROTOR SPRINKLER	HUNTER I-20-ADV/36V OR I-20-HP-ADV/36V PC - .75 SR NOZZLE, 25 FT RADIUS
	POP-UP ROTOR SPRINKLER	HUNTER I-20-ADV/36V OR I-20-HP-ADV/36V PC - 1.0 SR NOZZLE, 18 FT RADIUS
	POP-UP ROTOR SPRINKLER	HUNTER I-20-ADV/36V OR I-20-HP-ADV/36V PC - 0.5 SR NOZZLE, 18 FT RADIUS
	POP-UP SPRAY SPRINKLER	RAINBIRD 1800 SERIES-SAM-PRS W/ EST SERIES NOZZLE 4 FEET X 30 FT RADIUS

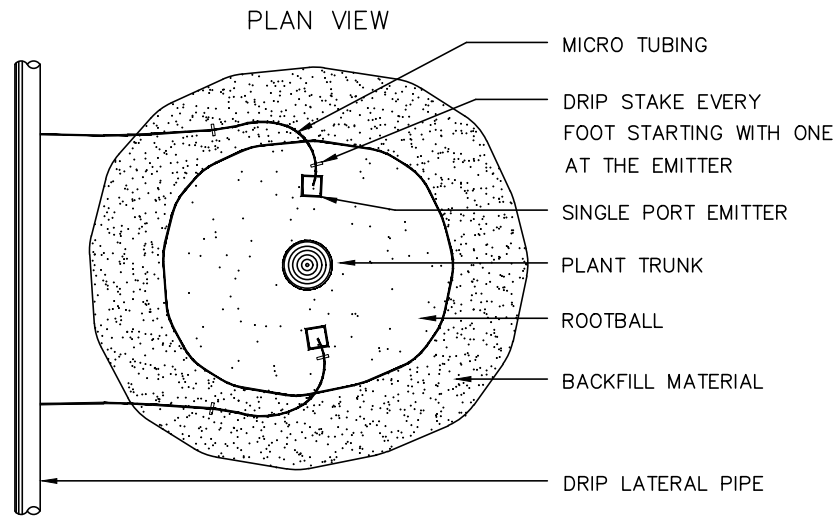


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Horizontal Scale: N/A Vertical Scale: N/A						Revised:		Designer: WJP	Structure Numbers	CDOT Sub-Account No. 23594	
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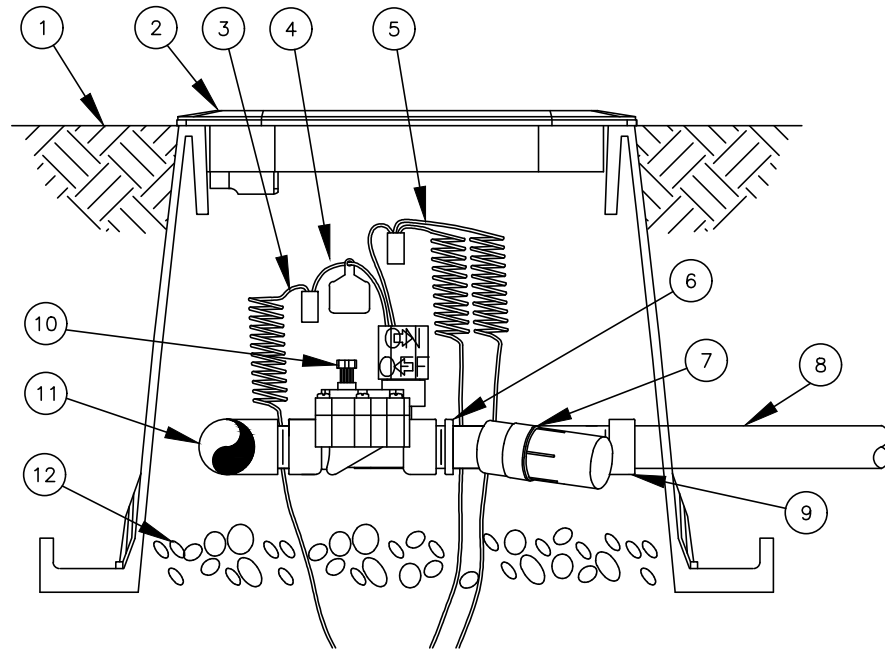
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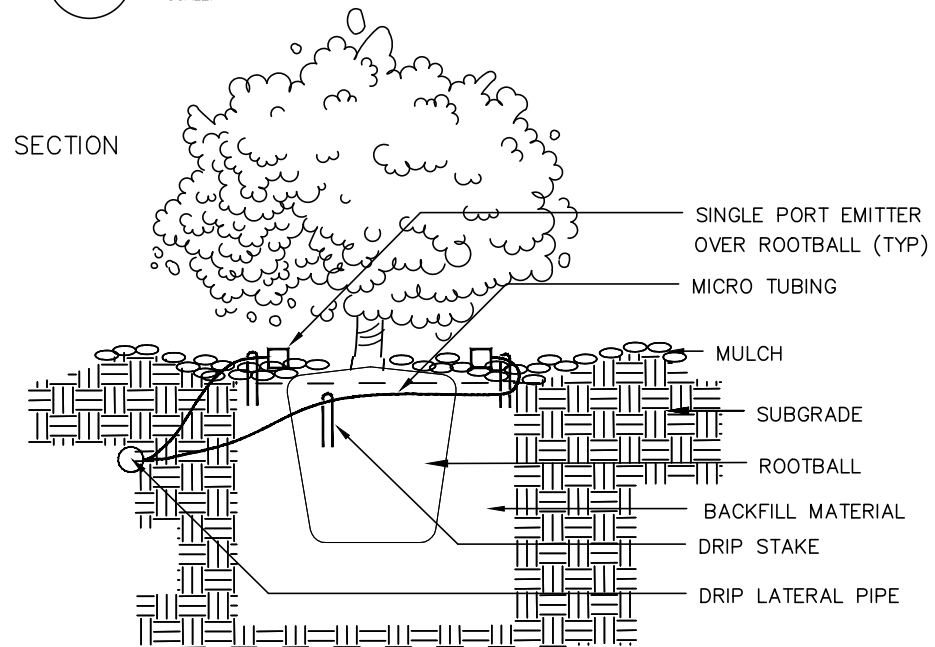
1 DRIP LINE END PLUG
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3 SHRUB DRIP EMITTER
SCALE: NOT TO SCALE




2 DRIP ZONE CONTROL KIT
SCALE: NOT TO SCALE

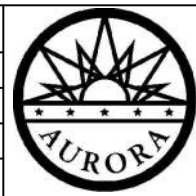


- 1 FINISH GRADE
- 2 STANDARD VALVE BOX WITH COVER:
- 3 WATERPROOF CONNECTION:
RAIN BIRD DB SERIES
- 4 VALVE ID TAG
- 5 30-INCH LINEAR LENGTH OF WIRE,
COILED 1"x3" REDUCING COUPLING
(INCLUDED IN XCZ-LF-100-PRF KIT)
- 6 PRESSURE REGULATING FILTER:
RAIN BIRD PRF-100-RBY (INCLUDED
IN XCZ-LF-100-PRF KIT)
- 7 LATERAL PIPE
- 8 PVC SCH 40 FEMALE ADAPTOR OR REDUCER
- 9 REMOTE CONTROL VALVE:
RAIN BIRD LFV-100 (INCLUDED IN
XCZ-LF-100-PRF KIT)
- 10 PVC SCH 40 TEE OR ELL TO MANIFOLD
- 11 3-INCH MINIMUM DEPTH OF
3/4-INCH WASHED GRAVEL
- 12 MANIFOLD PIPE AND FITTINGS

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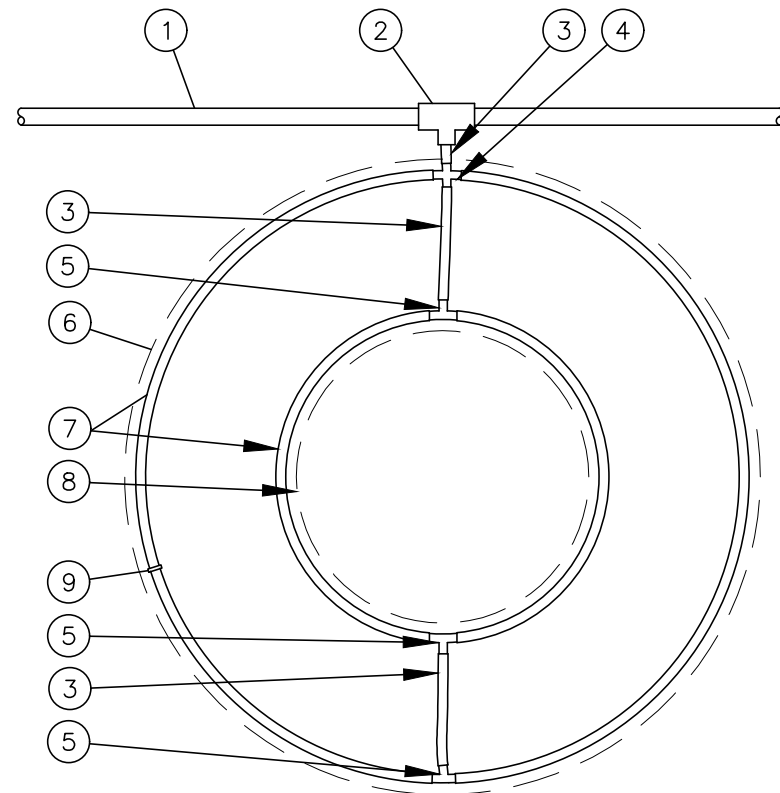
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NINE MILE PEDESTRIAN BRIDGE SOUTH PLAZA (RTD SITE) IRRIGATION NOTES AND DETAILS			
Designer:	WJP	Structure Numbers	
Detailer:	WJP		
Sheet Subset:	IRRIGATION	Subset Sheets:	IR-6 of 7

Project Number
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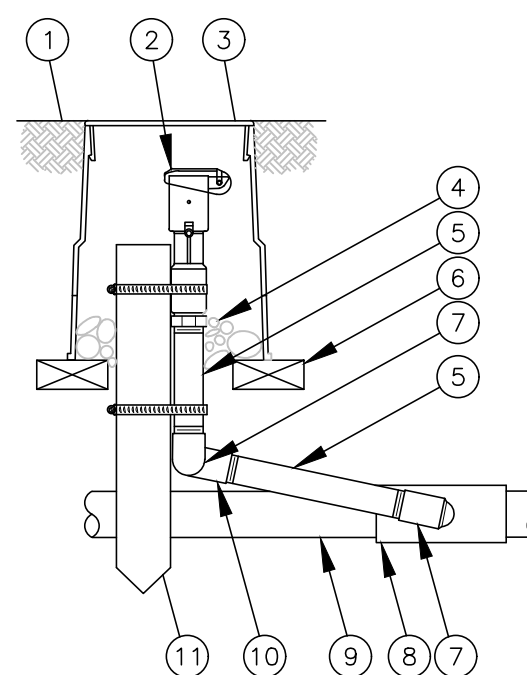
- 1 PVC DRIP MANIFOLD PIPE
- 2 PVC SCH 40 TEE OR EL
- 3 RAIN BIRD XF SERIES BLANK TUBING
- 4 BARB CROSS INSERT FITTING: RAIN BIRD XFD-CROSS
- 5 BARB TEE INSERT FITTING: RAIN BIRD XFF-TEE
- 6 PROJECTED CANOPY LINE OF TREE
- 7 ON-SURFACE DRIPLINE: RAIN BIRD XFD DRIPLINE 0'
- 8 ROOT BALL
- 9 TIE DOWN STAKE: RAIN BIRD TDS-050 WITH BEND (QUANTITY AS REQUIRED, SEE NOTES 2-3 BELOW)

NOTES:
1. DISTANCE BETWEEN LATERAL RINGS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, AND TREE CANOPY. SEE INSTALLATION SPECIFICATIONS ON RAIN BIRD WEB SITE (WWW.RAINBIRD.COM) FOR SUGGESTED SPACING.
2. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
3. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.

1

RAIN BIRD XFD ON-SURFACE TREE RING

SCALE: NOT TO SCALE



- 1 FINISH GRADE/TOP OF MULCH
- 2 QUICK-COUPLING VALVE: RAIN BIRD MODEL 5LRC
- 3 VALVE BOX WITH COVER: CARSON-BROOKS MODEL 910
- 4 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
- 5 PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- 6 BRICK (1 OF 2)
- 7 PVC SCH 40 STREET ELL
- 8 PVC SCH 40 TEE OR ELL
- 9 PVC MAINLINE PIPE
- 10 PVC SCH 40 ELL
- 11 2" x 2" REDWOOD STAKE WITH STAINLESS STEEL GEAR CLAMPS OR EQUIVALENT SUPPORT SYSTEM


NOTE:
FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.

2

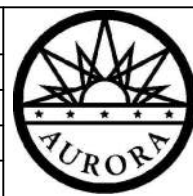
QUICK COUPLING VALVE 5LRC SERIES

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