

SITE DATA:
AREA OF PARCEL: 88,286 SF
WESTSIDE FRONTAGE: 370 LF
GOLF COURSE FRONTAGE: 219 LF
PARKING: 18 SPACES
PARKING AREA: 8,800 SF

REQ.	PROV.
17,657 SF	38,070 SF
2	2
13,243 SF	25,355 SF
880 SF	1,882 SF
11,187 SF (30%)	10,486 SF (28%)
15	15
11	11
2	2
28	28
58	58

REQUIRED TREES
WESTSIDE BOULEVARD (1 PER 25 LF)-WB
GOLF COURSE ROAD (1 PER 20 LF)-GC
PARKING (1 PER 10 SPACES)-MV
TOTAL TREES

REQUIRED SHRUBS
SITE TOTAL

2024-02-13 10:38

LEGEND

- 3/8" ROCK**
TYPE: SANTA FE BROWN
SUPPLIER: JPR
DEPTH: 3" DEPTH OR APPROVED EQUAL
- 2-4" COBBLE**
TYPE: PUEBLO ROSE
SUPPLIER: JPR
DEPTH: 3" DEPTH OR APPROVED EQUAL
- NATIVE SEED-RETENTION**
MIX NAME: DRYLAND MIX
SUPPLIER: PLANTS OF THE SOUTHWEST OR APPROVED EQUAL
- NATIVE SEED-LOW**
MIX NAME: SUMMER GREEN LAWN
SEED MIX
SUPPLIER: PLANTS OF THE SOUTHWEST OR APPROVED EQUAL
- EDGING**
4" ROLLED TOP STEEL EDGING (OR APPROVED EQUAL)

PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	PLANT SIZE	CONTAINER	MAT. H.	MAT. W.
DECIDUOUS TREES							
CL	4	4	CHILOPSIS LINEARIS DESERT WILLOW	2" CAL.	B&B	20'	25'
GA	5	5	GLEDITSIA AQUATICA WATER LOCUST	2" CAL.	B&B	50'	40'
PC	4	4	PISTACIA CHINENSIS CHINESE PISTACHE	2" CAL.	B&B	35'	35'
VX	5	5	VITEX X 'HELEN FROELICH' SUMMERTIME BLUES™ CHASTE TREE	2" CAL.	B&B	20'	20'
ORNAMENTAL TREES							
ER	7	7	CERCIS CANADENSIS VAR MEXICANA MEXICAN REDBUD	1.5" CAL.	B&B	15'	12'
SH	3	3	PRUNUS VIRGINIANA 'CANADA RED' CANADA RED CHERRY	1.5" CAL.	B&B	25'	20'
DECIDUOUS SHRUBS							
BUD	18	18	BUDOLEIA DAVIDI NANHOENSIS DWARF BUTTERFLY BUSH	#5 CONT.	CONT.	6'	8'
RHT	8	8	RHUS TRILOBATA THREE-LEAF SUMAC	#5 CONT.	CONT.	6'	10'
SAC	10	10	SALVIA CHAMAEDRYOIDES MEXICAN BLUE SAGE	#5 CONT.	CONT.	4'	4'
EVERGREEN SHRUBS							
ARF	3	3	ARTEMISIA FILIFOLIA SAND SAGEBRUSH	#5 CONT.	CONT.	4'	4'
FAP	19	19	FALLUGIA PARADOXA APACHE PLUME	#5 CONT.	CONT.	5'	5'

SEED MIX SCHEDULE (MATCH GROUND COVERS)

MIX NAME	SUPPLIER	SPECIES	CONDITION	APPLICATION METHOD	APPLICATION RATE
DRYLAND MIX	PLANTS OF THE SOUTHWEST	BLUE GRAMA SIDEOTS GRAMA INDIAN RICEGRASS SLENDER WHEATGRASS GALLETIA ALKALI SACATON SHEEP FESCUE LITTLE BLUESTEM	IRRIGATED	BROADCAST	PER SUPPLIER RECOMMENDATION
SUMMER GREEN LAWN SEED MIX	PLANTS OF THE SOUTHWEST	BLUE GRAMA BUFFALOGRASS	IRRIGATED	BROADCAST	PER SUPPLIER RECOMMENDATION



CONSULTANTS:

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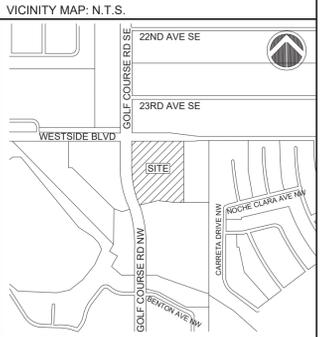
LAND DEVELOPMENT
CONSULTANTS, LLC
950 S. CHERRY STREET, SUITE 512
DENVER, CO 80246
OWNER/DEVELOPER:



ROCKY MOUNTAINS DIVISION
5500 S QUEBEC STREET, SUITE 100
GREENWOOD VILLAGE, CO 80111

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PROJECT:
CIRCLE K STORES INC

CONSTRUCTION DOCUMENTS
CIRCLE K

10850 GOLF COURSE RD
ALBUQUERQUE, NM 87114

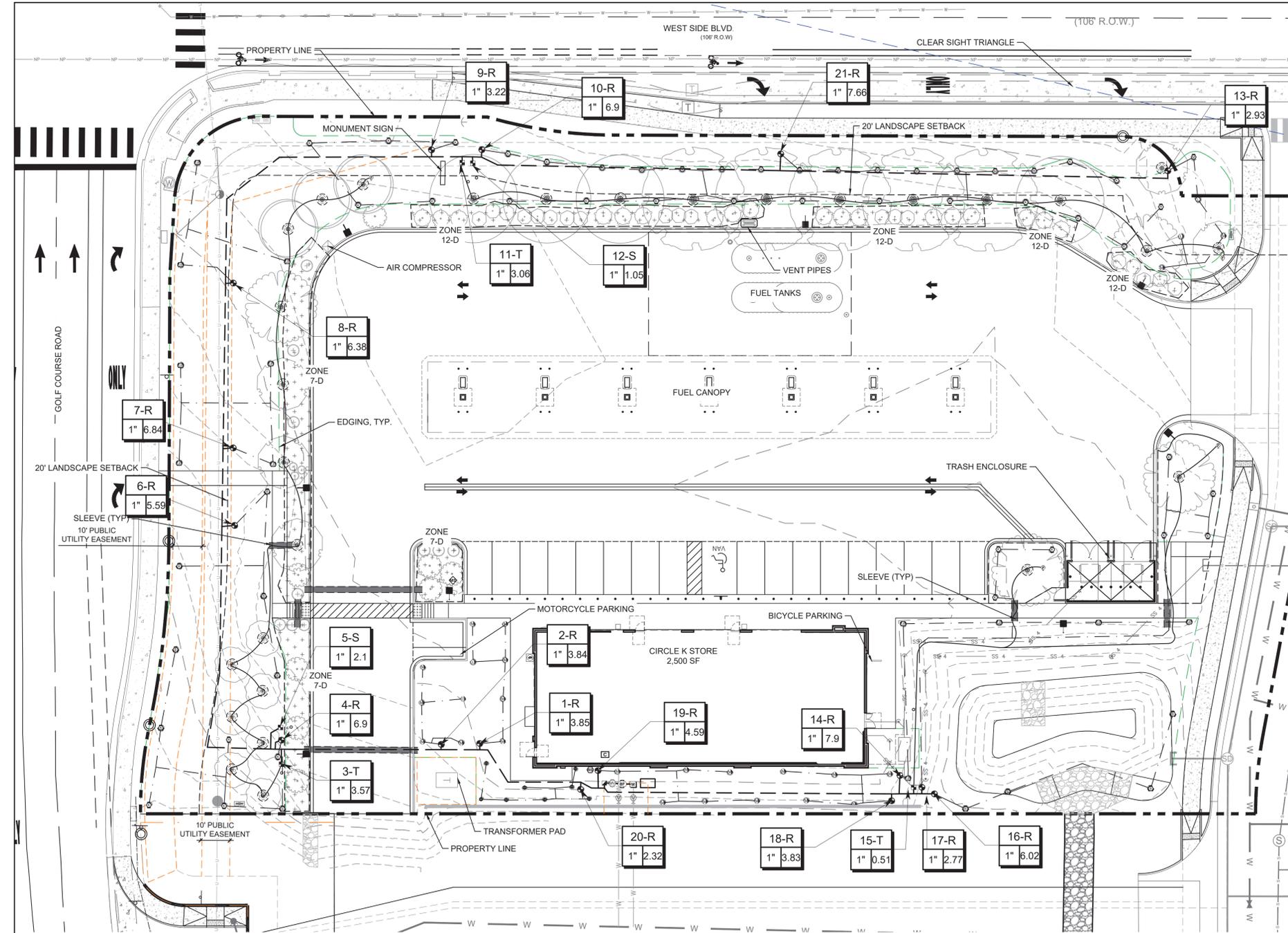
REVISION HISTORY:

NO.	DATE	DESCRIPTION	BY

DRAWING INFORMATION:
PROJECT NO: 21.1207.044
DRAWN BY: AM
CHECKED BY: JS

SHEET TITLE:
LANDSCAPE PLAN

LS01
SHEET 19 OF 22
DATE: MARCH 2024



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
(Symbol)	HUNTER MP1000 PROS-06-PRS30-CV-F TURF ROTATOR, 6IN. POP-UP WITH CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 30 PSI, MP ROTATOR NOZZLE ON PRS30 BODY. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC.	30
(Symbol)	HUNTER MP2000 PROS-06-PRS30-CV-F TURF ROTATOR, 6IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 30 PSI, MP ROTATOR NOZZLE ON PRS30 BODY. K=BLACK ADJ ARC 90-210, G=GREEN ADJ ARC 210-270, R=RED 360 ARC.	30
(Symbol)	HUNTER MP3000 PROS-06-PRS30-CV-F TURF ROTATOR, 6IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 30 PSI, MP ROTATOR NOZZLE ON PRS30 BODY. B=BLUE ADJ ARC 90-210, Y=YELLOW ADJ ARC 210-270, A=GRAY 360 ARC.	30
(Symbol)	HUNTER MP3500 PROS-06-PRS30-CV-F TURF ROTATOR, 6IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 30 PSI, MP ROTATOR NOZZLE ON PRS30 BODY. LB=LIGHT BROWN ADJUSTABLE ARC, 90-210.	30
(Symbol)	HUNTER MP800SR PROS-06-PRS30-CV-F TURF ROTATOR, 6IN. POP-UP WITH CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 30 PSI, MP ROTATOR NOZZLE ON PRS30 BODY. ADJ=ORANGE AND GRAY (ARC 90-210), 360=LIME GREEN AND GRAY (ARC 360)	30
(Symbol)	HUNTER MP815 PROS-06-PRS30-CV-F TURF ROTATOR, 6IN. POP-UP WITH CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 30 PSI, MP ROTATOR NOZZLE ON PRS30 BODY. M=MAROON AND GRAY ADJ ARC 90 TO 210, L=LIGHT BLUE AND GRAY 210 TO 270 ARC, O=OLIVE AND GRAY 360 ARC.	30
(Symbol)	RAIN BIRD XCZ-100-PRF 1" MEDIUM FLOW DRIP CONTROL KIT, 1" DV VALVE, 1" PRESSURE REGULATING FILTER, 40PSI PRESSURE REGULATOR. 3GPM - 15GPM.	
(Symbol)	RAIN BIRD MDCFCAP DIPLINE FLUSH VALVE CAP IN COMPRESSION FITTING COUPLER.	
(Symbol)	TREE RING 2 DRIP RINGS USING 18" EMITTER SPACING @ 0.9 GPH, 12" SPACING FROM TRUNK TO FIRST RING, 30" SPACING FROM TRUNK TO SECOND RING	
(Symbol)	AREA TO RECEIVE DRIP EMITTERS RAIN BIRD XB-PC SINGLE OUTLET, PRESSURE COMPENSATING DRIP EMITTERS. FLOW RATES OF 0.5GPH=BLUE, 1.0GPH=BLACK, AND 2.0GPH=RED. COMES WITH A SELF-PIERCING BARB INLET X BARB OUTLET. Emitter Notes: 1.0 GPH emitters (2 assigned to each #5 CONT. plant) 1.0 GPH emitters (2 assigned to each #3 CONT. plant)	
(Symbol)	RAIN BIRD PESB 1" 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION, WITH SCRUBBER TECHNOLOGY FOR RELIABLE PERFORMANCE IN DIRTY WATER IRRIGATION APPLICATIONS.	
(Symbol)	RAIN BIRD EFB-CP 1" 1", 1-1/4", 1-1/2", 2" BRASS MASTER VALVE, THAT IS CONTAMINATION PROOF W/SELF-FLUSHING FILTER SCREEN, GLOBE CONFIGURATION, RECLAIMED WATER COMPATIBLE, AND PURPLE HANDLE COVER DESIGNATES NON-POTABLE WATER USE.	
(Symbol)	WATTS U009 3/4" REDUCED PRESSURE BACKFLOW PREVENTER	
(Symbol)	RAIN BIRD ESP4ME3 WITH (3) ESP-SM6 22 STATION, HYBRID MODULAR OUTDOOR CONTROLLER, FOR RESIDENTIAL OR LIGHT COMMERCIAL USE. LNK WIFI MODULE AND FLOW SENSOR READY.	
(Symbol)	RAIN BIRD RSD-BEX RAIN SENSOR, WITH METAL LATCHING BRACKET, EXTENSION WIRE.	
(Symbol)	RAIN BIRD SMRT-Y SOIL MOISTURE SENSOR KIT. 24VAC @ 50/60 HZ. OPERATING TEMPERATURE: -4 DEGREES F TO 158 DEGREES F. SURVIVAL TEMPERATURE: -40 DEGREES F TO 185 DEGREES F. UL, CUL, C-TICK CERTIFICATIONS.	
(Symbol)	WATER METER 1"	
(Symbol)	IRRIGATION LATERAL LINE: POLYETHYLENE PIPE SDR-7 1"	
(Symbol)	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 1"	
(Symbol)	IRRIGATION MAINLINE: PVC SCHEDULE 40 1"	
(Symbol)	PIPE SLEEVE: PVC CLASS 200 SDR 21	
(Symbol)	Valve Callout	
(Symbol)	Valve Number	
(Symbol)	Valve Flow	
(Symbol)	Valve Size	

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VICINITY MAP: N.T.S.

PROJECT:
CIRCLE K STORES INC

CONSTRUCTION DOCUMENTS
CIRCLE K

10850 GOLF COURSE RD
ALBUQUERQUE, NM 87114

REVISION HISTORY:

NO.	DATE	DESCRIPTION	BY

DRAWING INFORMATION:
PROJECT NO: 21.1207.044
DRAWN BY: JS
CHECKED BY: JS

SHEET TITLE:
IRRIGATION PLAN

IR01

SHEET 21 OF 22

DATE: MARCH 2024

VALVE SCHEDULE

2024-02-27 14:39

NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PRECIP
1-R	RAIN BIRD PESB	1"	TURF ROTARY	3.85	62.0	31.7	0.56 in/h
2-R	RAIN BIRD PESB	1"	TURF ROTARY	3.84	74.8	31.7	0.5 in/h
3-T	RAIN BIRD XCZ-100-PRF	1"	TREE DRIP	3.57	132.6	15.4	0.49 in/h
4-R	RAIN BIRD PESB	1"	TURF ROTARY	6.9	134.6	32.5	0.25 in/h
5-S	RAIN BIRD XCZ-100-PRF	1"	SHRUB DRIP	0.54	140.6	15.0	0.12 in/h
6-R	RAIN BIRD PESB	1"	TURF ROTARY	5.59	232.7	32.2	0.21 in/h
7-R	RAIN BIRD PESB	1"	TURF ROTARY	6.84	258.3	32.3	0.28 in/h
8-R	RAIN BIRD PESB	1"	TURF ROTARY	6.38	313.5	32.1	0.2 in/h
9-R	RAIN BIRD PESB	1"	TURF ROTARY	3.22	416.5	31.7	0.19 in/h
10-R	RAIN BIRD PESB	1"	TURF ROTARY	6.9	433.8	32.6	0.26 in/h
11-T	RAIN BIRD XCZ-100-PRF	1"	TREE DRIP	3.06	426.6	15.3	0.49 in/h
12-S	RAIN BIRD XCZ-100-PRF	1"	SHRUB DRIP	1.05	430.3	15.0	0.12 in/h
13-R	RAIN BIRD PESB	1"	TURF ROTARY	2.93	668.4	31.6	0.39 in/h
14-R	RAIN BIRD PESB	1"	TURF ROTARY	7.9	125.5	32.9	0.2 in/h
15-T	RAIN BIRD XCZ-100-PRF	1"	TREE DRIP	0.51	120.4	15.0	0.49 in/h
16-R	RAIN BIRD PESB	1"	TURF ROTARY	6.02	125.1	32.2	0.18 in/h
17-R	RAIN BIRD PESB	1"	TURF ROTARY	3.55	122.9	32.1	0.27 in/h
18-R	RAIN BIRD PESB	1"	TURF ROTARY	3.83	112.7	31.7	0.49 in/h
19-R	RAIN BIRD PESB	1"	TURF ROTARY	4.59	11.4	31.8	0.5 in/h
20-R	RAIN BIRD PESB	1"	TURF ROTARY	2.32	22.0	31.5	0.46 in/h
21-R	RAIN BIRD PESB	1"	TURF ROTARY	7.66	539.2	32.9	0.27 in/h

CRITICAL ANALYSIS

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P.O.C. NUMBER: 01
Water Source Information:

FLOW AVAILABLE
Water Meter Size: 1"
Flow Available: 18.2 GPM

PRESSURE AVAILABLE
Static Pressure at POC: 80 PSI
Elevation Change: 5.00 ft
Service Line Size: 1"
Length of Service Line: 20 ft
Pressure Available: 77 PSI

DESIGN ANALYSIS
Maximum Station Flow: 7.9 GPM
Flow Available at POC: 18.2 GPM
Residual Flow Available: 10.3 GPM

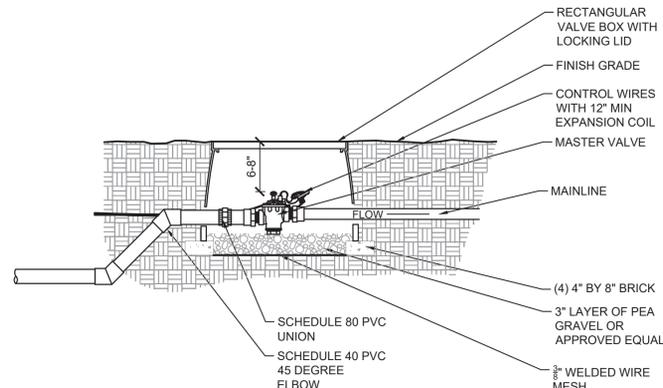
Critical Station: 21-R
Design Pressure: 30 PSI
Friction Loss: 1.03 PSI
Fittings Loss: 0.1 PSI
Elevation Loss: 0 PSI
Loss through Valve: 1.75 PSI
Pressure Req. at Critical Station: 32.9 PSI
Loss for Fittings: 0.85 PSI
Loss for Main Line: 8.51 PSI
Loss for POC to Valve Elevation: 0 PSI
Loss for Backflow: 10.1 PSI
Loss for Master Valve: 0.47 PSI
Loss for Water Meter: 0.47 PSI
Critical Station Pressure at POC: 53.3 PSI
Pressure Available: 77 PSI
Residual Pressure Available: 23.7 PSI

GRAPHIC SCALE
1 inch = 20 ft

FILE LOCATION: S:\CIRCLE K\GOLF COURSE & WEST SIDE\IWD\DWG\PLANS\IR01.DWG

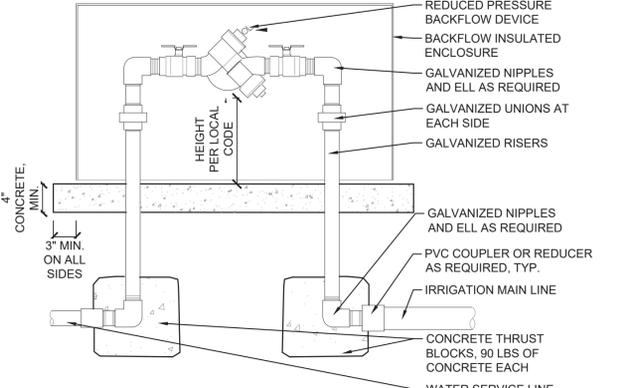
GENERAL IRRIGATION NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF THE PROJECT SPECIFICATIONS PRIOR TO BIDDING. THE PROJECT SPECIFICATIONS ARE A PART OF THESE PLANS AND SHALL BE CONSULTED BY THE IRRIGATION CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING WORK AS SPECIFIED IN THE PROJECT SPECIFICATIONS AND ON THE PLANS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, EQUIPMENT QUANTITIES, AND UTILITY LOCATIONS PRIOR TO BEGINNING WORK.
- CONTRACTOR SHALL NOTIFY OWNER OF ANY DISCREPANCIES IN PLANS OR SPECIFICATIONS PRIOR TO BEGINNING OR CONTINUING WORK.
- THE CONTRACTOR SHALL MAKE NO SUBSTITUTIONS, DELETIONS, OR ADDITIONS TO THIS PLAN WITHOUT APPROVAL OF THE LANDSCAPE ARCHITECT OR LICENSED IRRIGATOR.
- ALL CONSTRUCTION SHALL CONFORM TO CITY, COUNTY, STATE, AND FEDERAL REQUIREMENTS. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO ENSURE THAT ALL IRRIGATION EQUIPMENT MEETS GOVERNMENT REGULATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS OR APPROVALS.
- CONTRACTOR IS TO VERIFY ACTUAL AVAILABLE WATER PRESSURE BEFORE BEGINNING INSTALLATION. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OR LICENSED IRRIGATOR IF AVAILABLE WATER PRESSURE EXCEEDS 5 PSI HIGHER OR LOWER THAN THE DESIGN WATER PRESSURE.
- IRRIGATION SYSTEMS CONNECTED TO POTABLE WATER SUPPLY, SHALL HAVE A BACKFLOW PREVENTER INSTALLED PER LOCAL REQUIREMENTS.
- ANY EXISTING TREES TO REMAIN ARE TO BE PROTECTED FROM DAMAGE. DO NOT TRENCH OR EXCAVATE WITHIN THE CRITICAL ROOT ZONE OF ANY TREE.
- SUPPLY LINE AND METER TO BE PROVIDED BY GENERAL CONTRACTOR. IRRIGATION CONTRACTOR'S POINT OF CONNECTION TO BEGIN AFTER THE IRRIGATION WATER METER. BACKFLOW PREVENTER TO BE PROVIDED BY IRRIGATION CONTRACTOR, UNLESS SPECIFIED TO BE LOCATED INSIDE AT WHICH POINT WILL BE PROVIDED BY THE GENERAL CONTRACTOR OR PLUMBER.
- IRRIGATION CONTRACTOR SHALL REVIEW WINTERIZATION PROCEDURES FOR IRRIGATION SYSTEM WITH OWNERS REPRESENTATIVE.
- IRRIGATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING MANUAL DRAIN VALVES AT LOWEST POSSIBLE ELEVATION ON IRRIGATION MAIN SO AS TO PROVIDE POSITIVE DRAINAGE OF IRRIGATION MAIN DURING WINTER MONTHS OR PROVIDE BLOWOUT ASSEMBLY.
- ALL LATERAL LINES SHALL BE EQUIPPED WITH AUTOMATIC DRAIN VALVES AT LOW POINTS.
- IRRIGATION CONTRACTOR SHALL COORDINATE CONTROLLER LOCATION WITH GENERAL CONTRACTOR. GENERAL CONTRACTOR SHALL PROVIDE (2) 1" ELECTRICAL CONDUITS FOR IRRIGATION CONTRACTOR'S POWER/DATA CONNECTION TO CONTROLLER. SEE ARCHITECTURAL ELECTRICAL PLAN FOR ELECTRICAL CONNECTION TO THE IRRIGATION CONTROLLER. IRRIGATION CONTRACTOR SHALL COORDINATE CONSTRUCTION OF IRRIGATION SYSTEM WITH GENERAL CONTRACTOR AND LANDSCAPE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- ALL BELOW GRADE LOW VOLTAGE WIRING CONNECTIONS SHALL BE INSTALLED PER WIRE CONNECTION DETAIL.
- DO NOT INSTALL IRRIGATION AT PYLON / MONUMENT SIGN LOCATION UNTIL SIGN HAS BEEN INSTALLED.
- LOCATION FOR IRRIGATION SYSTEM AS SHOWN IS FOR DRAWING PURPOSES ONLY. UNSLEEVED PIPES MAY BE SHOWN IN PAVEMENT AREAS FOR CLARITY ONLY. INSTALL THESE PIPES IN ADJACENT LANDSCAPE AREAS WHERE NECESSARY. CONTRACTOR SHALL VERIFY THE EXACT LOCATION IN FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OF PROPOSED IRRIGATION SYSTEM. ALL PROPOSED IRRIGATION LINES AND EQUIPMENT SHALL BE INSTALLED WITHIN THE BOUNDARIES OF THE PROJECT SITE. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OR LICENSED IRRIGATOR IF THE DESIGN AS SHOWN IS NOT ACHIEVABLE.
- MINIMUM COVER FROM TOP OF PIPING TO FINISHED GRADE SHALL BE AS PER DETAIL.
- IRRIGATION CONTRACTOR SHALL COORDINATE IRRIGATION INSTALLATION WITH PLANTING PLAN AND SITE CONDITIONS TO PROVIDE COMPLETE COVERAGE WITH MINIMUM OVERSPRAY. THE IRRIGATION CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO ENSURE PROPER COVERAGE AT NO ADDITIONAL COST TO THE OWNER.
- VALVE BOXES SHALL BE INSTALLED FLUSH WITH GRADE, PER DETAIL.
- ALL MAIN LINE PIPING, NON-PRESSURE PIPING AND CONTROL WIRE SLEEVING SHALL BE INSTALLED IN SEPARATE SLEEVES. ALL LATERAL LINE PIPING UNDER PAVING SHALL BE PVC SCHEDULE 40 AND SHALL BE INSTALLED PRIOR TO ANY HARDSCAPE MATERIAL. IRRIGATION CONTRACTOR TO PROVIDE SLEEVES BETWEEN 12" AND 15" BELOW GRADE AT ALL DRIVE ENTRANCES AND SIDEWALKS. MAINLINE SLEEVE SIZE SHALL BE A MINIMUM OF TWICE (2X) THE DIAMETER OF THE PIPE TO BE SLEEVED. CONTROL WIRE SLEEVES SHALL BE OF SUFFICIENT SIZE FOR THE REQUIRED NUMBER OF WIRES.
- IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF FENCES, RETAINING WALLS, AND UTILITIES. THE IRRIGATION CONTRACTOR SHALL REPAIR OR REPLACE ALL ITEMS DAMAGED BY HIS WORK. THEY SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES AND LATERALS THROUGH WALLS, UNDER ROADWAYS AND PAVING AND TIMING, ETC. REFER TO CIVIL ENGINEERING PLANS FOR GRADING, METHODS OF DRAINAGE, IRRIGATION METERS, AND BACKFLOW PREVENTION DEVICE LOCATION.
- ALL IRRIGATION EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED, SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS, DETAILS AND SPECIFICATIONS. ACCEPTABLE MANUFACTURERS INCLUDE RAINBIRD, HUNTER, TORO, OR NETA-FIM
- ANY DRIP SYSTEM PIPING IN PLANTING BEDS IS DIAGRAMMATIC. CONTRACTOR CAN ROUTE PIPING IN A FREEFORM MANNER (AVOIDING OBJECTS SUCH AS LIGHT POLES, TRANSFORMERS PADS, EQUIPMENT VAULTS, SUBSURFACE ROCK TOO LARGE TO REMOVE, ETC.) AS LONG AS ALL PLANT MATERIAL RECEIVES THE PROPER NUMBER OF EMITTERS PER SCHEDULE AND THE VINYL DISTRIBUTION TUBING DOES NOT EXCEED THE MAXIMUM DESIGN LENGTHS PER MANUFACTURER'S RECOMMENDATIONS.
- BACKFLOW TO BE LOCATED EXTERNAL TO THE BUILDING. UNLESS OTHERWISE REQUIRED, BACKFLOW PREVENTION DEVICES LESS THAN 2" SHALL BE PLACED IN A WIRE MESH BASKET ENCLOSURE AND PAINTED TO MATCH THE PRIMARY BUILDING COLORS.
- ALL JOINTS AND BENDS 2" OR LARGER SHALL HAVE CONCRETE THRUST BLOCKING. THRUST BLOCKING SHALL BE A MINIMUM OF 1 CUBIC FOOT OF CONCRETE. PIPE SHALL NOT BE ENCASED IN CONCRETE. SEE DETAIL IRR02/2 FOR THRUST BLOCKING.
- CONTRACTOR WILL PROVIDE OWNER WITH A COMPLETE AND REPRODUCIBLE DRAWING OR IRRIGATION SYSTEM LAYOUT AS IT WAS INSTALLED. DRAWING SHOULD INCLUDE, BUT NOT BE LIMITED TO, LOCATIONS OF ZONES VALVES, MAIN, LATERAL AND DISTRIBUTION LINES, SLEEVES, WATER METER, BACKFLOW PREVENTION DEVICE, SENSORS AND CONTROLLER.
- ALL LATERAL LINE SIZING SHALL REFER TO PIPE SCHEDULE ON THIS PLAN.
- ALL EXISTING AND PROPOSED SIDEWALKS, BARRIER-FREE RAMPS, HANDICAP PARKING, DRIVEWAY CROSSWALKS, DRIVEWAYS AND ACCESSIBLE ROUTES SHALL COMPLY WITH A.D.A., T.A.S., AND CITY OF ALBUQUERQUE REQUIREMENTS. EXISTING INFRASTRUCTURE NOT COMPLYING SHALL BE REMOVED AND REPLACED TO MEET STANDARDS.

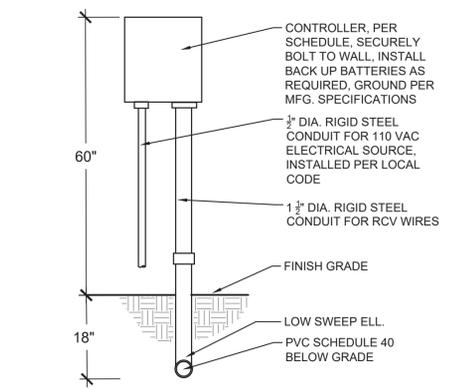


1 MASTER VALVE
NTS
MS-STD-IRR-04

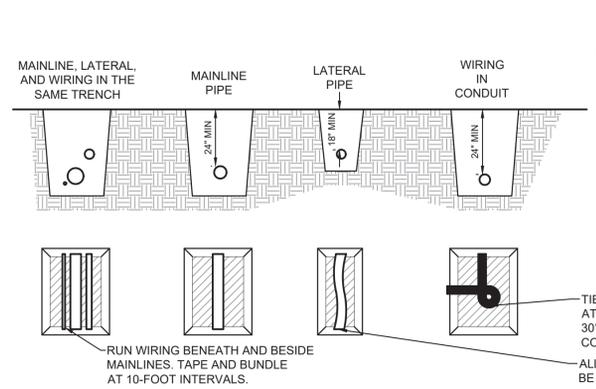
- NOTES:**
- MASTER VALVE SHALL BE MAKE AND MODEL NUMBER AS PRESCRIBED PER SCHEDULE
 - INSTALL MASTER VALVE PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
 - MASTER VALVE WIRE SHALL BE 14 AWG OR LARGER.
 - ALL WIRE RUNS SHALL BE CONTINUOUS WITHOUT ANY SPLICES. WIRE CONNECTIONS SHALL BE MADE USING DBR-Y/6 CONNECTORS OR APPROVED EQUAL.
 - SEE MASTER VALVE/ FLOW SENSOR DETAIL FOR LINEAR DIMENSIONS.
 - VALVE BOXES SHALL BE LOCATED IN PLANTING AREAS.



2 REDUCED PRESSURE BACKFLOW WITH ENCLOSURE
NTS
MS-STD-IRR-01

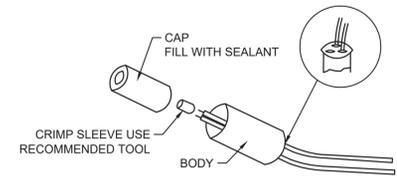


3 WALL MOUNT CONTROLLER
NTS
MS-STD-IRR-03

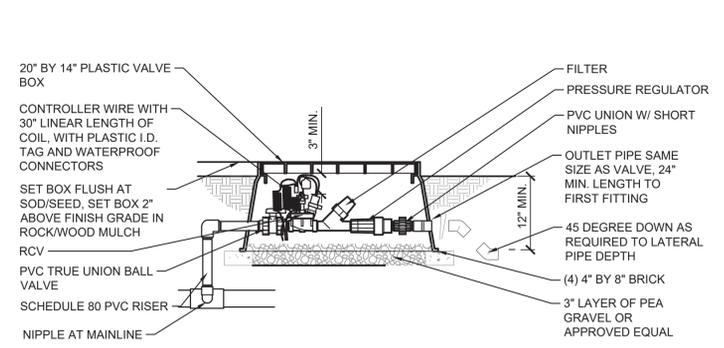


4 IRRIGATION PIPE & WIRE TRENCHING
NTS
MS-STD-IRR-06

- NOTES:**
- ALL MAIN LINES, LATERAL LINES, AND SLEEVES PER SCHEDULE.
 - SLEEVES BELOW ALL HARDSCAPE ELEMENTS SHALL BE TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN.
 - ALL LATERAL LINES SHALL BE BURIED NO LESS THAN 18" DEEP. ALL MAIN LINES AND ELECTRICAL LINES SHALL BE NO LESS THAN 24" DEEP.

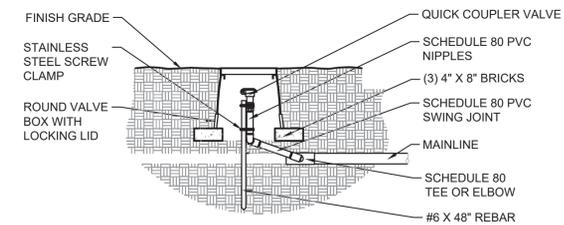


5 WIRE CONNECTION
NTS
MS-STD-IRR-10



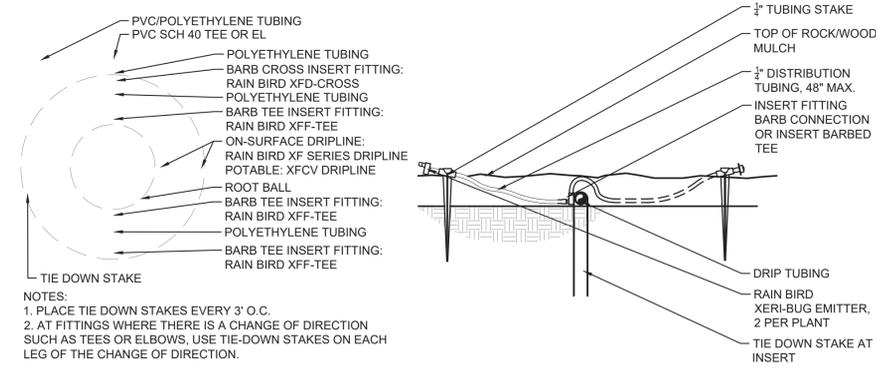
6 AUTOMATIC CONTROL VALVE
NTS
MS-STD-IRR-07

- NOTES:**
- LOCATE VALVE BOX WITHIN 24" OF PAVEMENT EDGE IN PLANTING AREA WHERE EASILY ACCESSIBLE WHENEVER POSSIBLE.
 - COMMON WIRE AND CONTROLLER WIRE SHALL BE DIRECT BURIAL. 14 AWG OR LARGER. COLOR: COMMON (WHITE), CONTROLLER WIRE FOR TURF (BLUE), AND CONTROLLER WIRE FOR SHRUBS (RED). (SEE SPECIFICATIONS FOR 2-WIRE CONTROLLERS).
 - ALL WIRE RUNS SHALL BE CONTINUOUS WITHOUT ANY SPLICES UNLESS APPROVED BY THE OWNER'S REPRESENTATIVE. SEE SPLICE BOX DETAIL. WIRE CONNECTIONS SHALL BE MADE USING DBR-Y/6 CONNECTORS OR APPROVED EQUAL.
 - MAINLINES 4" OR LARGER SHALL USE SADDLES AT THE CONNECTIONS POINTS TO THE IRRIGATION VALVE. (SEE SPECIFICATIONS FOR IRRIGATIONS SADDLES).
 - ALL SCH. 80 PVC TO SCH. 40 PVC THREADED CONNECTIONS SHALL BE MADE USING TEFLON TAPE.

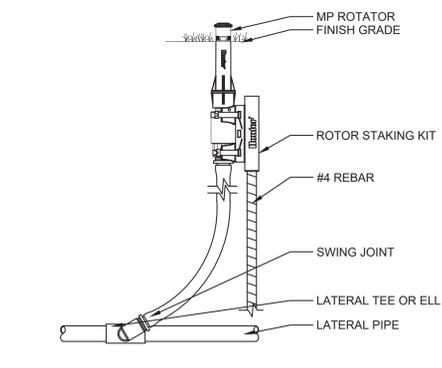


- NOTES:**
- ALL THREADED CONNECTIONS SHALL BE INSTALLED USING TEFLON TAPE.
 - VALVE BOX SHALL BE WRAPPED WITH A MINIMUM 3 MIL THICK PLASTIC AND SECURED TO THE VALVE BOX USING DUCT TAPE OR ELECTRICAL TAPE.
 - ALL QUICK COUPLERS SHALL BE INSTALLED A MINIMUM OF 18" OFF OF THE MAINLINE.
 - VALVE BOXES SHALL BE LOCATED IN PLANTING AREAS.

7 QUICK COUPLER VALVE
NTS
MS-STD-IRR-08



8 TREE DRIP RING
NTS
MS-STD-IRR-05



9 DRIP EMITTERS
NTS
MS-STD-IRR-09



10 IRRIGATION HEAD - HUNTER
NTS
MS-STD-IRR-12



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SEAL

Professional Engineer Seal for Jesse Sullivan, State of New Mexico, No. 27224, Expires 03/01/24.

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PROJECT:
CIRCLE K STORES INC

CONSTRUCTION DOCUMENTS
CIRCLE K

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ALBUQUERQUE, NM 87114

REVISION HISTORY:

NO.	DATE	DESCRIPTION	BY

DRAWING INFORMATION:

PROJECT NO: 21.1207.044
DRAWN BY: JS
CHECKED BY: JS

IRRIGATION NOTES AND DETAILS

ID01
SHEET 22 OF 22

DATE: MARCH 2024

FILE LOCATION: S:\CIRCLE K\GOLF COURSE & WEST SIDE\100 DAVENPORT PLAN SETS\CONSTRUCTION PLANS\IRR.DWG