

PAINTED PARKING (TYPICAL)

BENCHMARK EL=1085.63

TOP BOLT N.E. COR.

**ASPHALT** 

VALLEY VIEW MALL, LLC DEED NO.: 030019899

TAX PARCEL NO.: 2370108 IN FART

PAINTED PARKING -

(TYPICAL)

<u>NOTES & LEGENDS</u>

24 VAC CONTROL WIRING - ALL 24 V.A.C. CONTROL WIRING SHALL BE SINGLE STRAND COPPER WIRE WITH POLYETHYLENE PE DIRECT BURIAL INSULATION RATED FOR 300 V.A.C. VALVE "COMMON" WIRES SHALL HAVE WHITE INSULATION WHILE VALVE "HOT" WIRES SHALL HAVE INSULATION RED IN COLOR. THE "COMMON" WIRES SHALL BE #14 AWG. "HOT" WIRES SHALL BE #14 AWG. VALVE WIRING SHALL FOLLOW MAINLINE PIPING WHERE FEASIBLE AND SHALL BE LAID IN A COMMON TRENCHLINE WITH THE MAINLINE PIPING AND IN THE BOTTOM OF THE TRENCH. WIRING SHALL BE "BUNDLED" AND TAPED AT INTERVALS OF APPROXIMATELY TEN FEET.
ALL WRING SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODE

- WIRE SPLICES SHALL BE KEPT TO AN ABSOLUTE MINIMUM. WHERE MAJOR CONCENTRATIONS OF SPLICES ARE NECESSARY SAID SPLICES SHALL BE PLACED IN A CARSON #910-1 VALVE BOX, WITH #910-2 COVER INSTALLED AT GRADE LEVEL. SPLICES AT VALVE LOCATIONS SHALL BE MADE INSIDE OF THE VALVE BOX. ALL SPLICE LOCATIONS SHALL BE NOTED ON THE AS BUILT PLAN. - WIRE RUNS SHALL BE INSTALLED WITH ENOUGH SLACK AND/OR OCCASIONAL EXPANSION LOOPS TO PREVENT EXCESSIVE STRAIN DUE TO THERMAL CONTRACTION. - ALL WIRE SPLICES SHALL BE MADE USING UL APPROVED DIRECT BURIAL CONNECTORS AND WATERPROOFING MATERIALS. ALL ELECTRICAL

WORK SHALL BE INSTALLED ACCORDING TO CODE. CONTROLLER - LOCATION OF THE IRRIGATION CONTROLLER. THE CONTROLLER SHALL BE TORO CUSTOM COMMAND CONTROL SERIES SOLID STATE

UNIT WHICH SHALL BE OF THE WALL MOUNT STYLE. THE CONTROLLER SHALL BE OF THE MODEL NUMBER CC-P9, 9 STATION CONTROLLER. THE CONTROLLER SHALL INCORPORATE 24 V.A.C. ELECTRIC REMOTE CONTROL
VALVE OPERATION. THE CONTROLLER SHALL BE MOUNTED IN THE
APPROXIMATE LOCATION SHOWN ON THE PLAN.

- ALL ELECTRICAL CONNECTIONS AND INSTALLATIONS SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS. - ALL 120 VAC WIRING SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE ELECTRICAL CODE REQUIREMENTS.

NOTE: THE OWNER SHALL BE RESPONSIBLE FOR PROVIDING A 120 VAC POWER CIRCUIT AT THE CONTROLLER LOCATION. THE POWER SOURCE SHALL BE CAPABLE OF SUPPORTING A 10 AMPERE LOAD AT 120 VAC. BACKFLOW PREVENTION

- DENOTES THE LOCATION OF REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY WHICH SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. THE BACKFLOW SHALL BE 3/4" IN SIZE. THE BACKFLOW ASSEMBLY SHALL BE INSTALLED DOWNSTREAM OF THE IRRIGATION METER AS SHOWN ON THE LAYOUT. THE UNIT MUST BE INSTALLED IN ACCORDANCE WITH ALL LOCAL AND STATE CODE REQUIREMENTS AND AT LEAST AS NOTED ON THE DETAIL SHEET AND SHALL HAVE AN APPROVED COVER. WATER SUPPLY

- DENOTES THE LOCATION OF THE PROPOSED IRRIGATION METER.
THE METER SHALL BE THE OWNER'S RESPONSIBILITY. THE METER SHALL BE 3/4" IN SIZE. SINCE THE WATER SUPPLY FOR THE SYSTEM SHALL BE POTABLE WATER, THE CONTRACTOR WILL BE REQUIRED TO INSTALL BACKFLOW PREVENTION DEVICE WHICH WILL BE LOCATED DOWNSTREAM OF THE IRRIGATION METER AS NOTED ON PLAN.

**ASPHALT** 

J.C. PENNEY PROPERTIES, INC.

D.B. 1514 PG. 794 TAX PARCEL NO.: 2370106

PARCEL 5

(TYPICAL)

- THIS IRRIGATION SYSTEM SHALL BE CAPABLE OF DELIVERING 15 GPM MAXIMUM WITH ONE CONTROL STATION OPERATING AT A TIME AT 50 PSI AT THE BASE OF THE HEAD FOR OPTIMUM PERFORMANCE OF THE IRRIGATION SYSTEM AS DESIGN AND SPECIFIED. SLEEVING

- DENOTES LOCATION OF PVC SLEEVES FOR IRRIGATION PIPING. SIZE OF SLEEVES TO BE AS NOTED. - WHERE WIRE RUNS OCCUR, A SEPARATE PVC ELECTRICAL CONDUIT SLEEVE SHALL BE USED FOR 24 VAC WIRING PER ELECTRICAL CODE. SIZE OF PVC WIRE SLEEVES TO BE AS NOTED ON LAYOUT. \*NOTE\* - WERE IRRIGATION PIPING CROSSES SIDEWALK THE

CONTRACTOR SHALL INSTALL A SLEEVE 2 TIMES LARGER THAN THE IRRIGATION PIPE. ALSO WERE IRRIGATION WIRING CROSSES SIDEWALKS THE CONTRACTOR SHALL INSTALL A 2" PVC SLEEVE. - THE IRRIGATION CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE IRRIGATION SYSTEM WITH THE LANDSCAPE CONTRACTOR TO

INSURE PROPER INSTALLATION OF BOTH THE IRRIGATION SYSTEM WITH

THE LANDSCAPE AND HARDSCAPE. NOTE: THE IRRIGATION SYSTEM IS DISPLAYED SCHEMATIC IN NATURE. THE IRRIGATION CONTRACTOR MAY BE REQUIRED TO MAKE MINOR ADJUSTMENTS IN THE FIELD. THESE MINOR ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER BUT SHALL BE MADE ONLY AFTER NOTIFICATION IS MADE TO THE OWNER OR

- THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE SO THAT HE IS AWARE OF ANY SPECIAL CONDITIONS WHICH EXIST THAT MAY AFFECT HIS BID PROPOSAL AND SHALL THEREAFTER BE RESPONSIBLE FOR ALL COST INCURRED BY HIMSELF IN RELATION TO THE INSTALLATION.

HIS REPRESENTATIVE.

- THIS DESIGN IS BASED ON THE SITE INFORMATION AND/OR DRAWINGS SUPPLIED BY THE CLIENT OF RECORD WITH DESIGN CRITERIA BEING SET BY THE CLIENT AND/OR PROJECT OWNER (I.E. AREA TO BE IRRIGATED, MANUFACTURER'S EQUIPMENT TO BE EMPLOYED, WATER SOURCE SUITABILITY, ELECTRICAL POWER AVAILABILITY FOR IRRIGATION
SYSTEM USE, ETC.). SMITH TURF & IRRIGATION CO. BEARS NO
RESPONSIBILITY OR LIABILITY FOR ANY ERRORS IN DESIGN OR
APPLICATION WHICH MIGHT ARISE DUE TO INACCURACIES IN THE ABOVE
REFERENCE INFORMATION SUPPLIED TO MITH TURF & IRRIGATION CO.

IN RELATION TO THIS SPECIFIC PROJECT UNLESS OTHERWISE NOTED.

IRRIGATION LAYOUT DATE: SCALE: SHEET: PROJECT NO.: FILENAME: 1-6-06 1" = 20' 1 OF 2 060106.110 IR-1.DWG 4355 Golf Acres Drive Charlotte, North Carolina 28208 Phone: (704) 393-8873 Phone: (800) 932-8676

1 inch = 20 ft.

STH 12-13-05 1"=20'

RISER PIPES SHALL BE PAINTED A NATURAL TONE OF BROWN SO AS TO BE AS UNOBTRUSIVE AS POSSIBLE. ALL SHRUB HEADS SHALL BE INSTALLED IN SUCH A MANNER AS TO PROVIDE SPRAY PATTERNS RELATIVELY UNOBSTRUCTED BY SURROUNDING PLANTINGS WHILE USING THE SHORTEST RISER HEIGHT POSSIBLE.

- ALL POP-UP IRRIGATION HEADS DESIGNED ADJACENT TO CURBS OR PAVEMENT SHALL BE INSTALLED WITH A CLEARANCE OF 1 1/2" FROM THE EDGES OF ALL PAVED AREAS TO PROVIDE FOR EDGING AND MAINTENANCE OPERATIONS. HEADS INSTALLED ON SHRUB RISERS OR WITH THE TOP OF THE HEAD MORE THAN 1/2" ABOVE GRADE SHALL BE INSTALLED WITH A THE HEAD MORE THAN 1/2" ABOVE GRADE SHALL BE INSTALLED WITH A MINIMUM 6" CLEARANCE FROM PAVED AREAS.

— ALL THREADED PIPE CONNECTIONS SHALL BE ASSEMBLED USING TEFLON THREAD SEALING TAPE.

— ALL HEADS MOUNTED IN THE LAWN AREAS SHALL BE MOUNTED ON TORO POLYETHYLENE PIPE FLEX SWING JOINTS COMPOSED OF MODEL #850—01 3/8" I.D. POLY PIPE FITTED WITH #850—31 (3/8" INSERT BY 1/2" M.P.T.) AND/OR #850—32 (3/8" INSERT BY 3/4" M.P.T.) ELBOWS.

OF PIPE TO BE 1" IN SIZE. MINIMUM DEPTH OF COVER OVER MAINLINE PIPING TO BE 18". - PIPING SHALL BE PR 200 SOLVENT WELD PVC PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS UNLESS OTHERWISE NOTED.

- ALL PIPING RUNS SHALL BE "SNAKED" IN THE TRENCH DURING INSTALLATION TO PREVENT EXCESSIVE STRAIN DUE TO THERMAL EXPANSION OR CONTRACTION. - THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGING PLANTINGS (INCLUDING ROOTS) DURING INSTALLATION OF THE IRRIGATION SYSTEM AND SHALL COORDINATE HIS EFFORTS WITH THE LANDSCAPER AND LANDSCAPE ARCHITECT SO AS TO OPTIMIZE THE

EFFICIENCY AND THE AESTHETIC QUALITY OF THE INSTALLATION.

DRIP IRRIGATION

- LOCATION OF TORO NETAFIM TECHLINE 1/2" P.E. TUBING, 18" EMITTER SPACING INTERVALS AT 1 GPM EMITTERS INLINE. NETAFIM (MODEL# TLDL-9-1810) TECHLINE TO BE INSTALLED UNDER MULCH IN LANDSCAPE AREAS AS SHON ON THE IRRIGATION PLAN.

- LOCATION OF DRIP VALVE ASSEMBLY WHICH INCLUDES TORO 250 SERIES REMOTE CONTROL VALVE WITH FLOW CONTROL FEATURE, NETAFIM 200 MESH FILTER #DF150-140, AND NETAFIM PRESSURE REGULATOR #PVR15045. FLOW CONTROL VALVES SHALL BE AS NOTED ON BOXES WITH LIDS MOUNTED AT GRADE LEVEL.

- THE IRRIGATION CONTRACTOR SHALL ADJUST THE RADIUS AND THROW OF EACH SPRINKLER HEAD TO PROVIDE OPTIMUM COVERAGE WHILE MINIMIZING OVERSPRAY ONTO HARDSCAPES OR BUILDINGS. ADJUST HEADS TO ELIMINATE DRY SPOTS. - APPROXIMATE ARC AND RADIUS OF INDIVIDUAL SPRINKLER HEAD COVERAGE SHALL BE AS ILLUSTRATED. INDIVIDUAL HEAD OR NOZZLE MODEL NUMBERS MAY BE DEPENDENT UPON THESE SPECIFIC CHARACTERISTICS.

- LOCATION OF ELECTRIC 24 V.A.C. REMOTE CONTROL VALVE WITH FLOW CONTROL FEATURE (MODEL # TORO 250-06-04). SIZE OF ZONE CONTROL VALVES TO BE AS NOTED ON THE IRRIGATION PLANS. - ALL IN-LINE REMOTE CONTROL VALVES SHALL BE INSTALLED IN CARSON VALVE BOXES WITH LIDS MOUNTED AT GRADE LEVEL. SINGL VALVES MAY BE INSTALLED IN CARSON MODEL #910-1 VALVE BOX WITH #910-2 COVER, WHILE MULTIPLE VALVES (UP TO, TWO 1" VALVES OR ONE, 1-1/2" SHALL BE INSTALLED IN CARSON MODEL #1419-1 BOX WITH #1419-2 COVER.

#1419—2 COVER.

— LOCATION OF MAINLINE ISOLATION GATE VALVE. THE

ISOLATION VALVES SHALL BE LINE SIZE AND SHALL BE
INSTALLED WITH A VALVE BOX ASSEMBLY AS SHOWN IN THE DETAIL.

<u>Revisions</u> 1-30-06 CITY COMMENTS #1 △ 2-22-06

ROBIN

T 4 G =

2 CITY COMMENTS #2 **&**:

JOB NO.: RRB-0511

C-9

SHEET NO.: