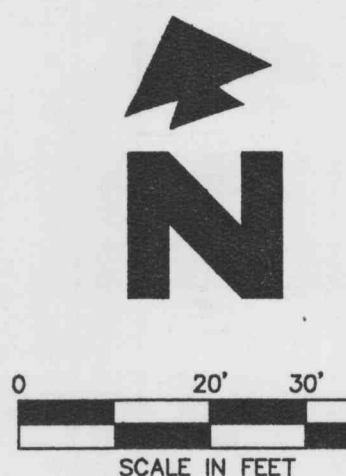


O'Fallon Crossing Shopping Center

WALGREENS

RETAIL A



BENCHMARK
 "I" ON TRAFFIC LIGHT BASE SOUTHWEST OF SITE AT INTERSECTION OF MISSOURI HIGHWAYS "N" & "K". ELEVATION: 514.25

LEGEND

- EXISTING**
- BOUNDARY LINE
 - RIGHT OF WAY LINE
- PROPOSED**
- BOUNDARY LINE
 - RIGHT OF WAY LINE
 - STORM DRAIN
 - MAIN LINE WITH SIZE DESIGNATION
 - LATERAL LINE WITH SIZE DESIGNATION
 - SLEEVING
 - ZONE DESIGNATION
 - VALVE SIZE
 - DESIGN PRESSURE - POUNDS PER SQUARE INCH
 - DESIGN DEMAND - GALLONS PER MINUTE

GENERAL IRRIGATION NOTES

- A. IRRIGATION CONTRACTOR SHALL TEST EXISTING STATIC PRESSURE ON SITE PRIOR TO CONSTRUCTION. SHOULD EXISTING SITE PRESSURE BE BELOW 50# STATIC, CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- B. 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. INSTALLATION SHALL BE PER DETAIL 62C.
- C. ALL LATERAL LINES SHALL BE EQUIPPED WITH AUTOMATIC DRAIN VALVES AT LOW POINTS PER DETAIL 62D.
- D. CONTRACTOR SHALL COORDINATE CONTROLLER LOCATION WITH GENERAL CONTRACTOR. 110 VOLT ELECTRICAL SERVICE FOR IRRIGATION CONTROLLER IS TO BE INSTALLED IN THE EQUIPMENT ROOM BY GENERAL CONTRACTOR.
- E. CONTRACTOR SHALL COORDINATE CONSTRUCTION OF IRRIGATION SYSTEM WITH GENERAL CONTRACTOR AND LANDSCAPE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- F. LOCATION FOR THIS UTILITY AS SHOWN IS FOR DRAWING PURPOSES ONLY. CONTRACTOR SHALL VERIFY THE EXACT LOCATION IN FIELD PRIOR TO THE CONSTRUCTION OF THE PROPOSED UTILITY LINE TO BE CONNECTED. CONTRACTOR SHALL NOTIFY THE ENGINEER IF THE DESIGN AS SHOWN IS NOT ACHIEVABLE.
- G. ALL R.C.V. CONTROLLER WIRES AND PIPING ARE TO BE IN CONDUIT WHILE UNDER PAVING. CONDUIT TO BE INSTALLED BY GENERAL CONTRACTOR. ROUTING OF R.C.V. WIRES TO CONTROL VALVES SHALL BE BY THE IRRIGATION CONTRACTOR. CONDUITS ARE TO BE A MIN. OF TWO TIMES THE DIAMETER OF THE ITEMS BEING SLEEVED.
- H. ALL BELOW GRADE LOW VOLTAGE WIRING CONNECTIONS SHALL BE INSTALLED PER DETAIL 61A.
- I. DO NOT INSTALL IRRIGATION AT Pylon SIGN LOCATION UNTIL SIGN HAS BEEN INSTALLED.
- J. ALL LATERAL LINES NOT LABELED SHALL BE 1" DIAMETER.
- K. MINIMUM COVER FROM TOP OF PIPING TO FINISHED GRADE SHALL BE AS DESCRIBED IN THE LANDSCAPE IRRIGATION SECTION OF THE SITEWORK SPECIFICATIONS.
- L. CONTRACTOR IS TO ADJUST ARC AND RADIUS ON ALL HEADS SO AS TO PROVIDE MAXIMUM COVERAGE AND MINIMUM OVERLAP.
- M. THIS IRRIGATION SYSTEM IS DESIGNED USING "RAINBOW" IRRIGATION PRODUCTS. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN APPROVAL FROM THE DESIGNER AND VERIFICATION OF COMPATIBILITY.

IRRIGATION DETAILS

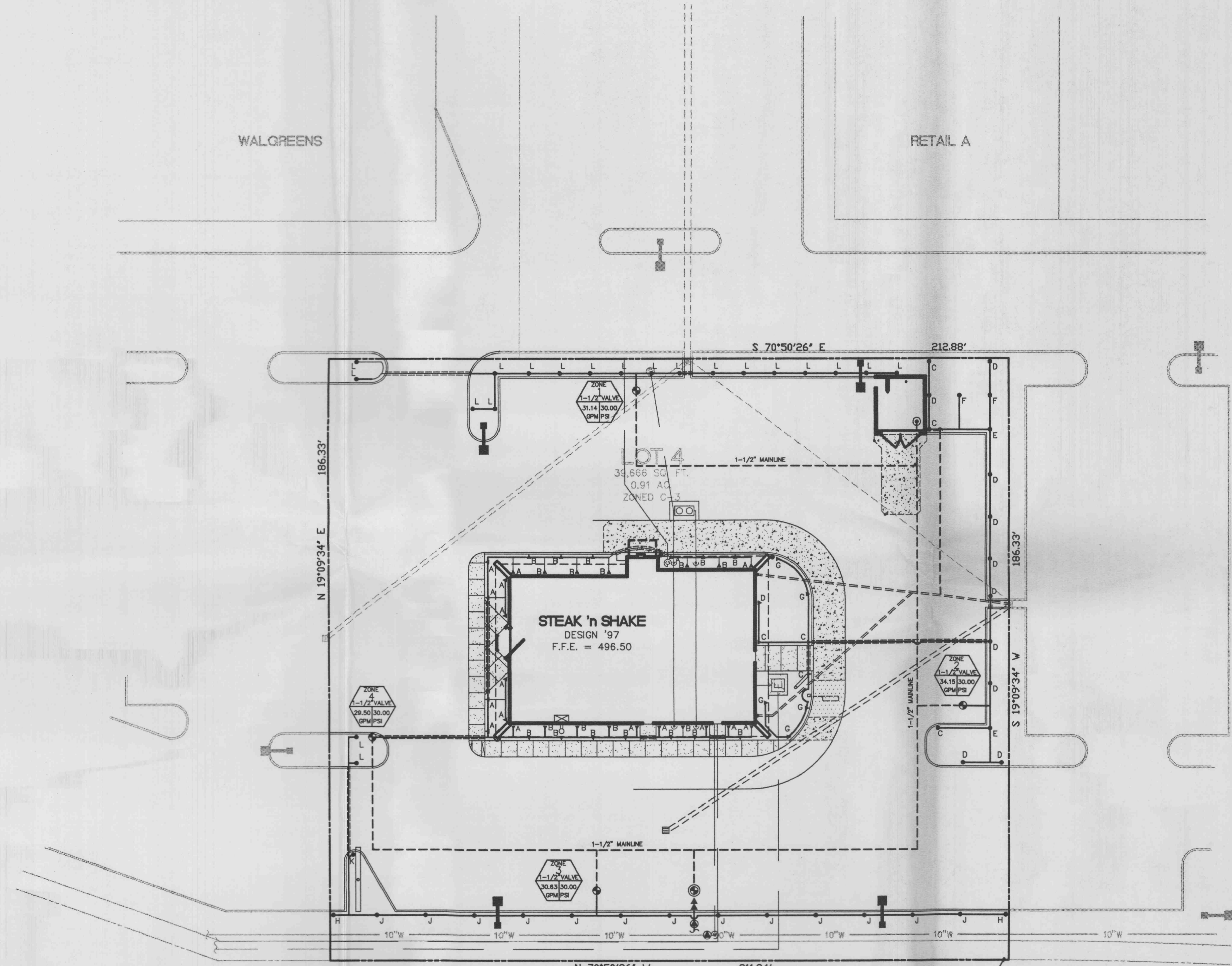
- A 60A POP-UP IRRIGATION HEAD (TYP.) (SEE NOZZLE LIST THIS SHEET)
- ⊠ 61B CONTROLLER AND VALVES (ESP-6X)
- ⊠ 61C RAIN SENSOR
- ⊠ 61E ELECTRIC VALVE AND BOX (TYP.) (150-PGA)
- ⊠ 61G QUICK COUPLING VALVE & BOX FOR PAVED AREAS.
- ⊠ 62A REDUCED PRESSURE BACKFLOW PREVENTER (1-1/4")

IRRIGATION NOTES

- 61A CONDUIT FOR R.C.V. WIRES BY GENERAL CONTRACTOR, ROUTING TO CONTROL VALVES BY IRRIGATION CONTRACTOR
- 61B 1-1/4" IRRIGATION METER WITH 1-1/2" TYPE K COPPER SERVICE BY GENERAL CONTRACTOR
- 62A MASTER CONTROL VALVE (150-PGA)
- 64B MAIN LINE SHOWN HERE FOR DRAWING PURPOSES ONLY. CONTRACTOR SHALL INSTALL MAIN LINE, ETC., WITHIN PROPERTY.

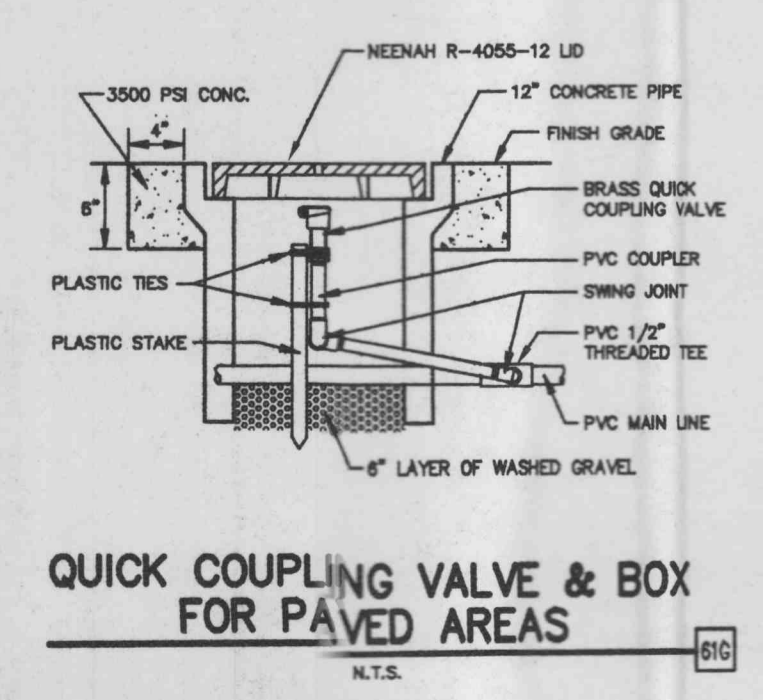
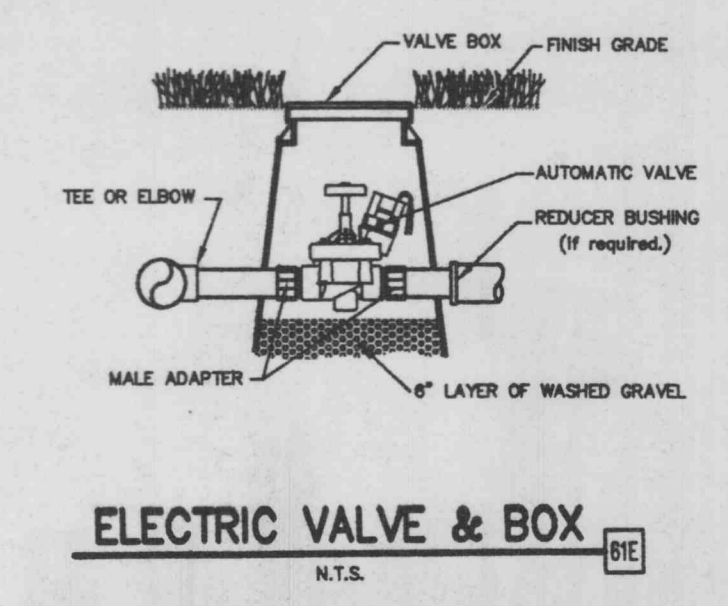
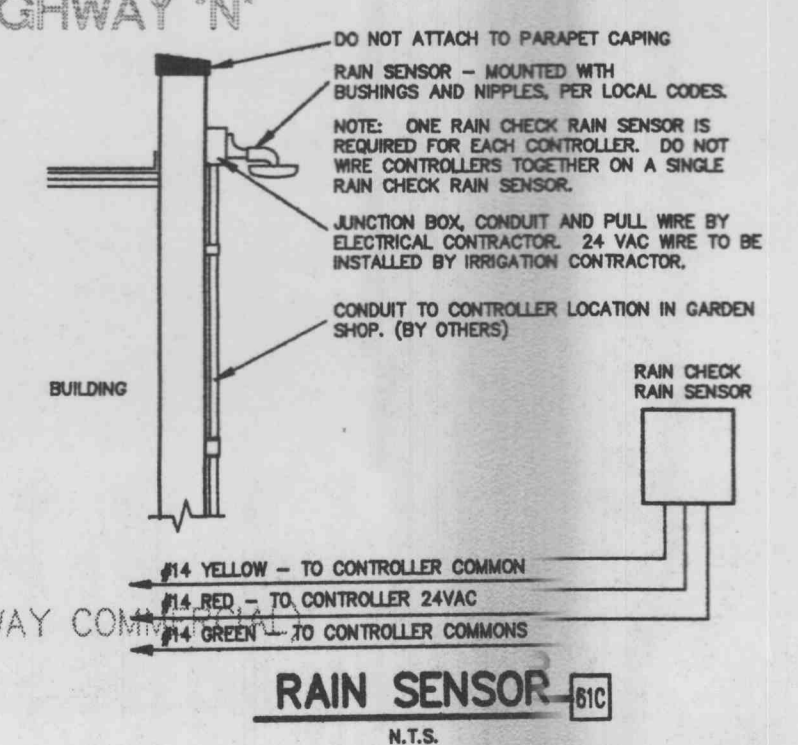
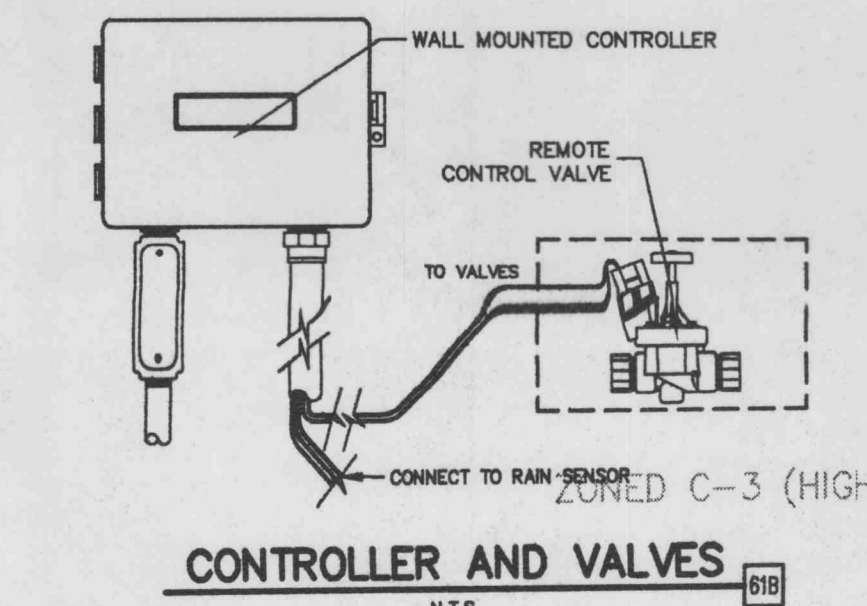
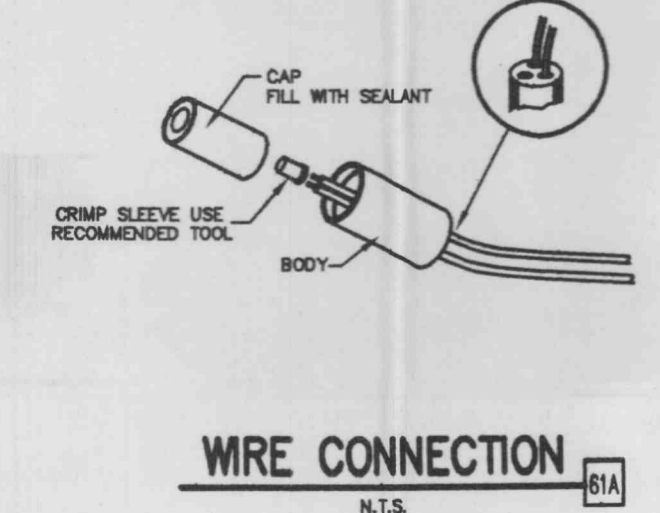
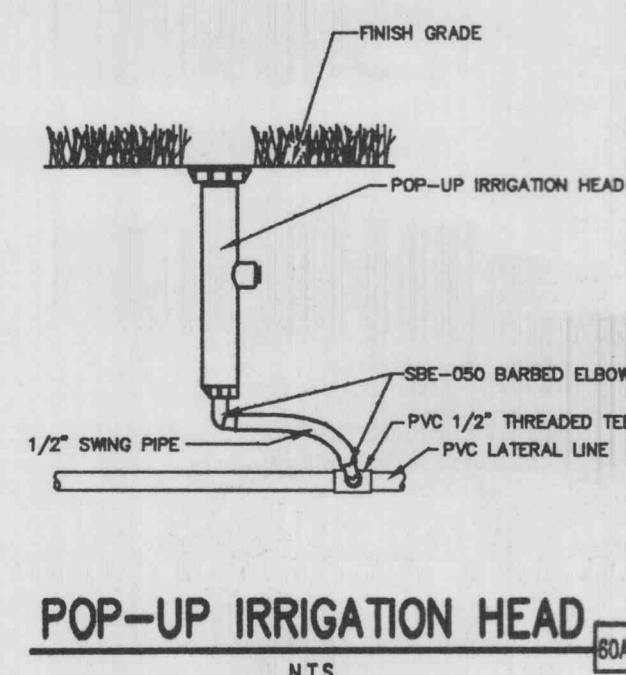
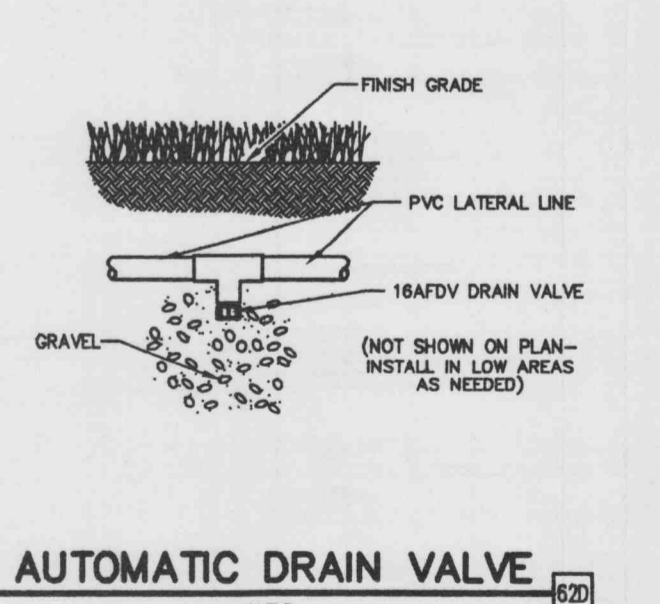
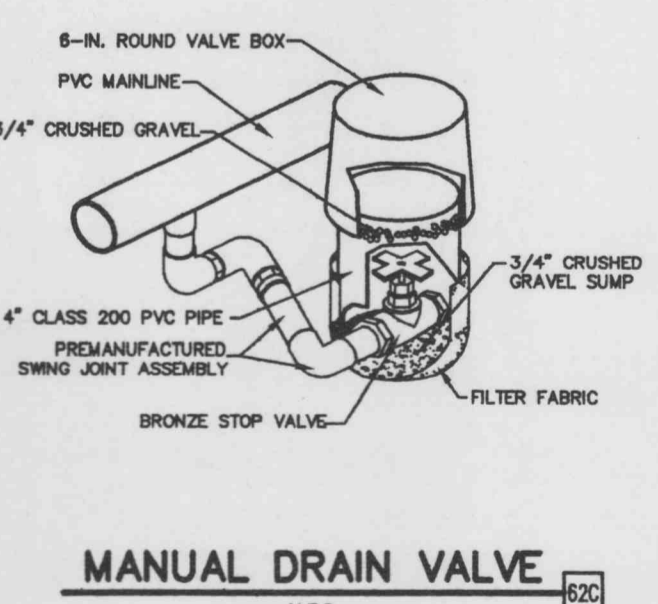
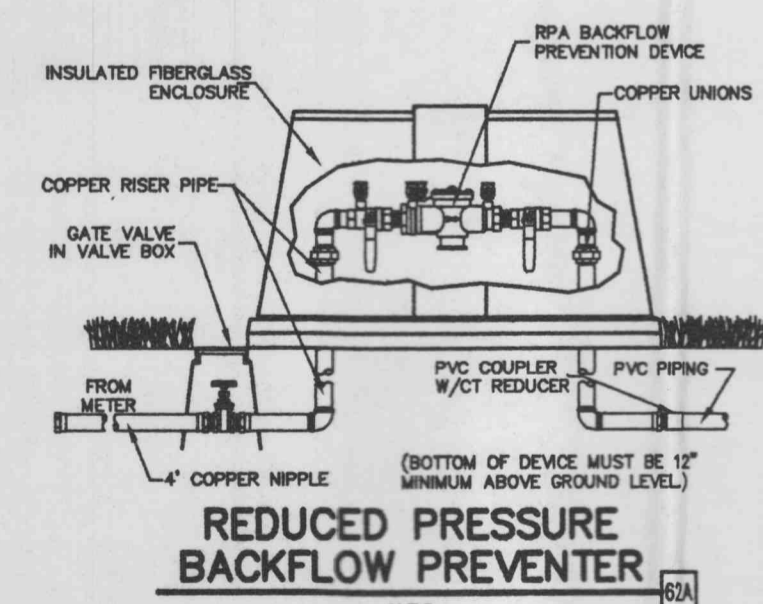
SPRINKLER NOZZLE LIST

KEY	QTY.	GPM	DESCRIPTION
A	17	.50	1806-50-B
B	21	1.00	1806-50-B
C	6	.65	1804-120
D	11	1.30	1804-12H
E	2	1.95	1804-12TD
F	2	2.60	1804-12F
G	5	1.11	1804-12-VAN
H	2	.83	1804-18Q
J	13	1.85	1804-18H
K	1	1.28	1804-18-VAN
L	20	1.75	1804-175ST



ZONED C-3 (HIGHWAY COMMERCIAL)

ZONED C-3 (HIGHWAY COMMERCIAL)
MISSOURI HIGHWAY "K"



NOTE:
SEE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF PORCHES, RAMPS, VESTIBULE, SLOPED PAVING, TRUCK DOORS, BUILDING UTILITY ENTRANCE LOCATIONS AND PRECISE BUILDING DIMENSIONS.

INITIAL DESIGN	11-8-96	JDC	BLM	JAC	JAC
	DATE	PRN	PM	DES	DRW

STEAK 'N SHAKE RESTAURANT

CEI ENGINEERING ASSOCIATES, INC.
 ENGINEERS PLANNERS SURVEYORS

110 W. Central Ave. (501) 273-9472 JOB NO.: 12424.0
 Bentonville, AR 72712 FAX (501) 273-0844 DWG NAME: 2424PROJ

IRRIGATION PLAN DATE 02-05-97 SHEET NO. 7 OF 9
MISSOURI HIGHWAYS "N" AND "K" 2:32 PM RB
O'FALLON, MISSOURI