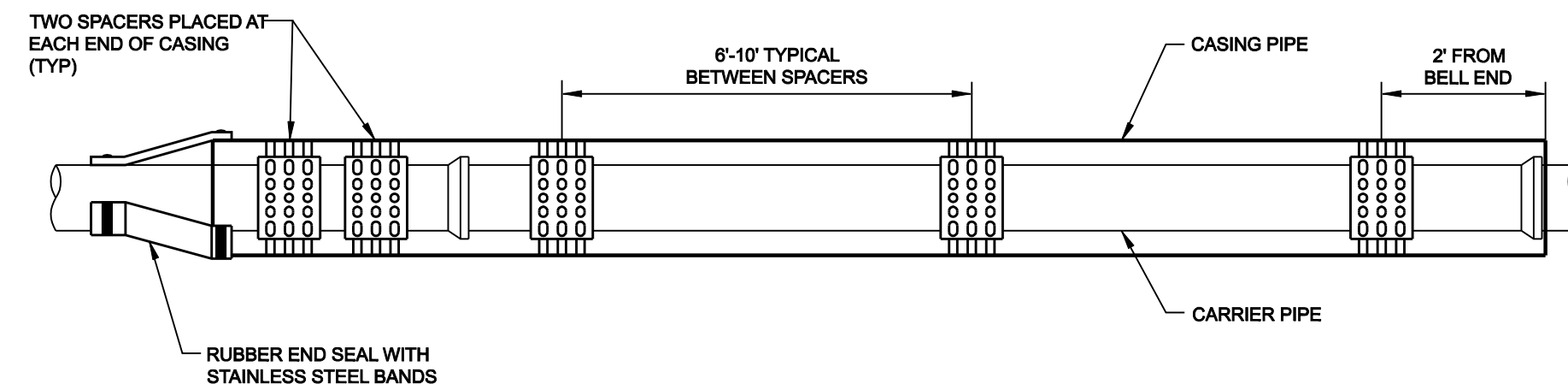


NOTES:

(1) HIGH DENSITY POLYETHYLENE SPACERS, RACI OR EQUAL, SHALL BE USED. WHERE NO CASING PIPE IS REQUIRED OVERCUTTING AROUND UTILITY SHALL BE FILLED WITH HYDRAULICALLY PLACED NON-SHRINK GROUT AS PER ASTM C478.

(2) END GROUTING FOR ALL ENCASEMENTS SHALL BE AS PER ASTM STANDARD C478 (1:7 GROUT WITH 5% TO 40% AIR ENTRAINMENT). GROUT SHALL BE PLACED BY HYDRAULIC PUMP FROM THE LOWER END OF THE ENCASEMENT PIPE, THEREBY INSURING COMPLETE FILLING OF ENCASEMENT PIPE.

(3) ENCASEMENT PIPE SHALL BE EITHER DUCTILE IRON PIPE OR HIGH DENSITY STEEL PIPE. ALL JOINTS TO BE WELDED 100%.



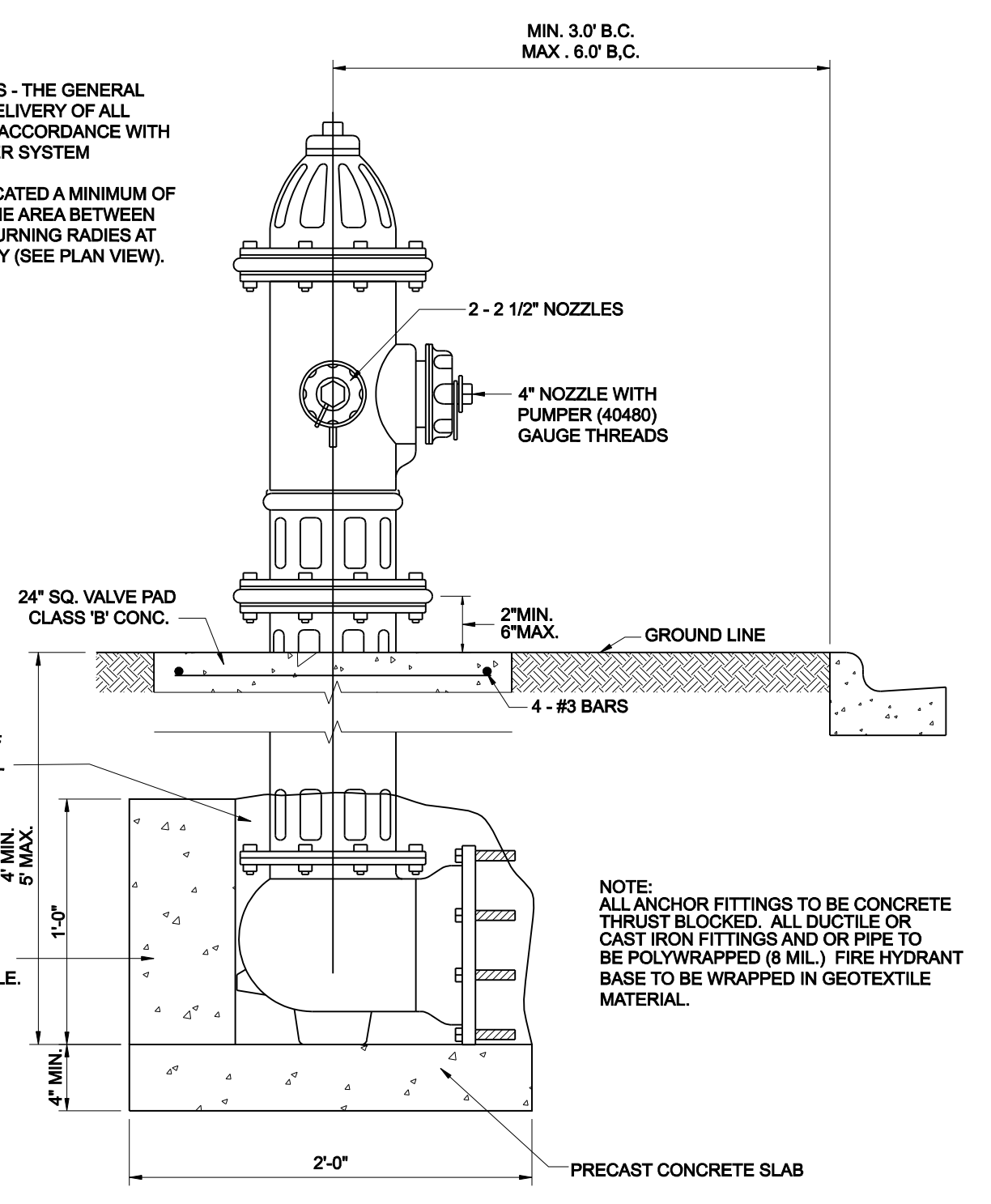
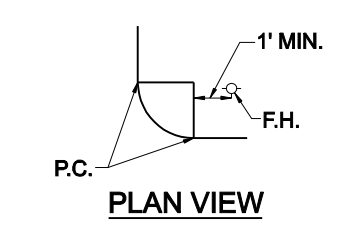
INSULATOR SPACING DETAIL

WATER MAIN ENCASEMENT

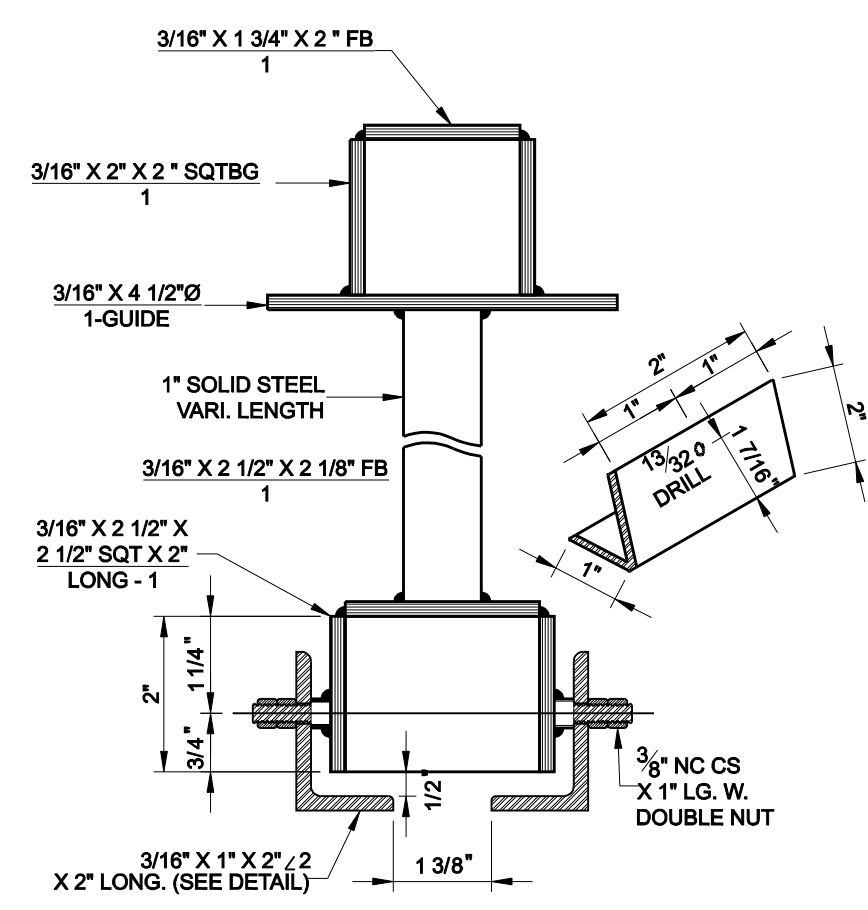
NOTE:

1. DESIGN, SITE REQUIREMENTS - THE GENERAL OPERATION, PAINTING AND DELIVERY OF ALL FIRE HYDRANTS SHALL BE IN ACCORDANCE WITH THE TOWN OF ADDISON WATER SYSTEM REQUIREMENTS

2. FIRE HYDRANT SHALL BE LOCATED A MINIMUM OF ONE FOOT (1') OUTSIDE OF THE AREA BETWEEN THE P.C.'S OF THE CORNER TURNING RADIES AT INTERSECTION AND DRIVEWAY (SEE PLAN VIEW).

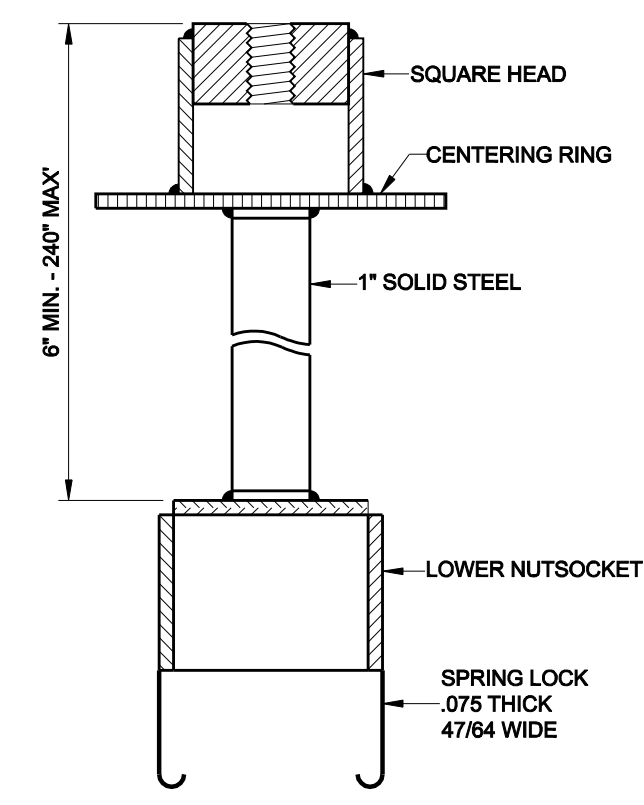


TYPICAL FIRE HYDRANT INSTALLATION

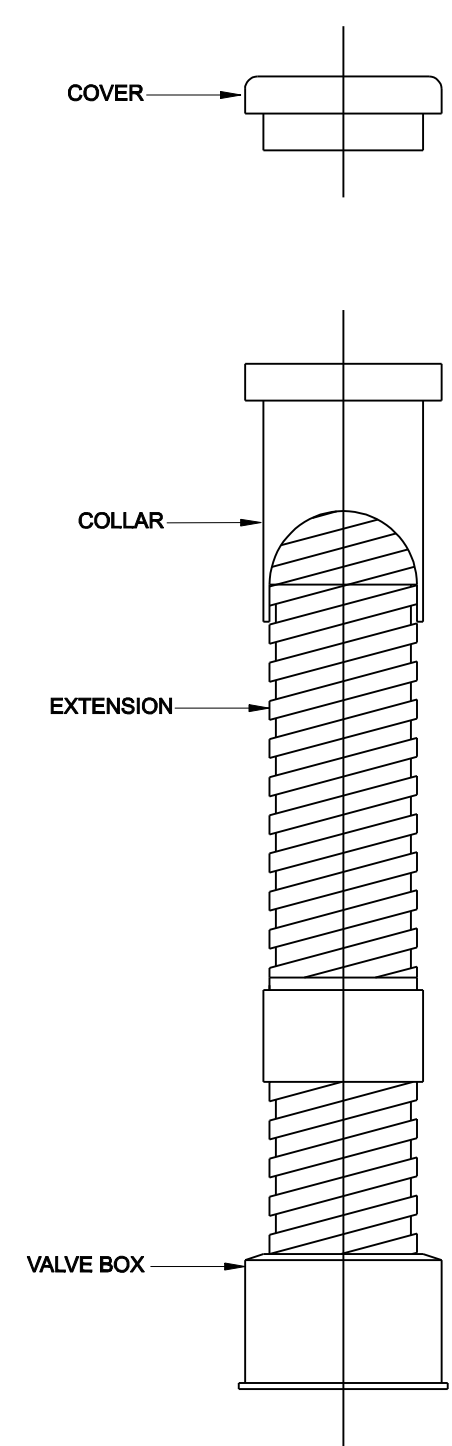


TYPE - B VALVE EXTENSION

NOTE: TO BE USED ON ALL VALVES DEEPER THAN 5'-0".

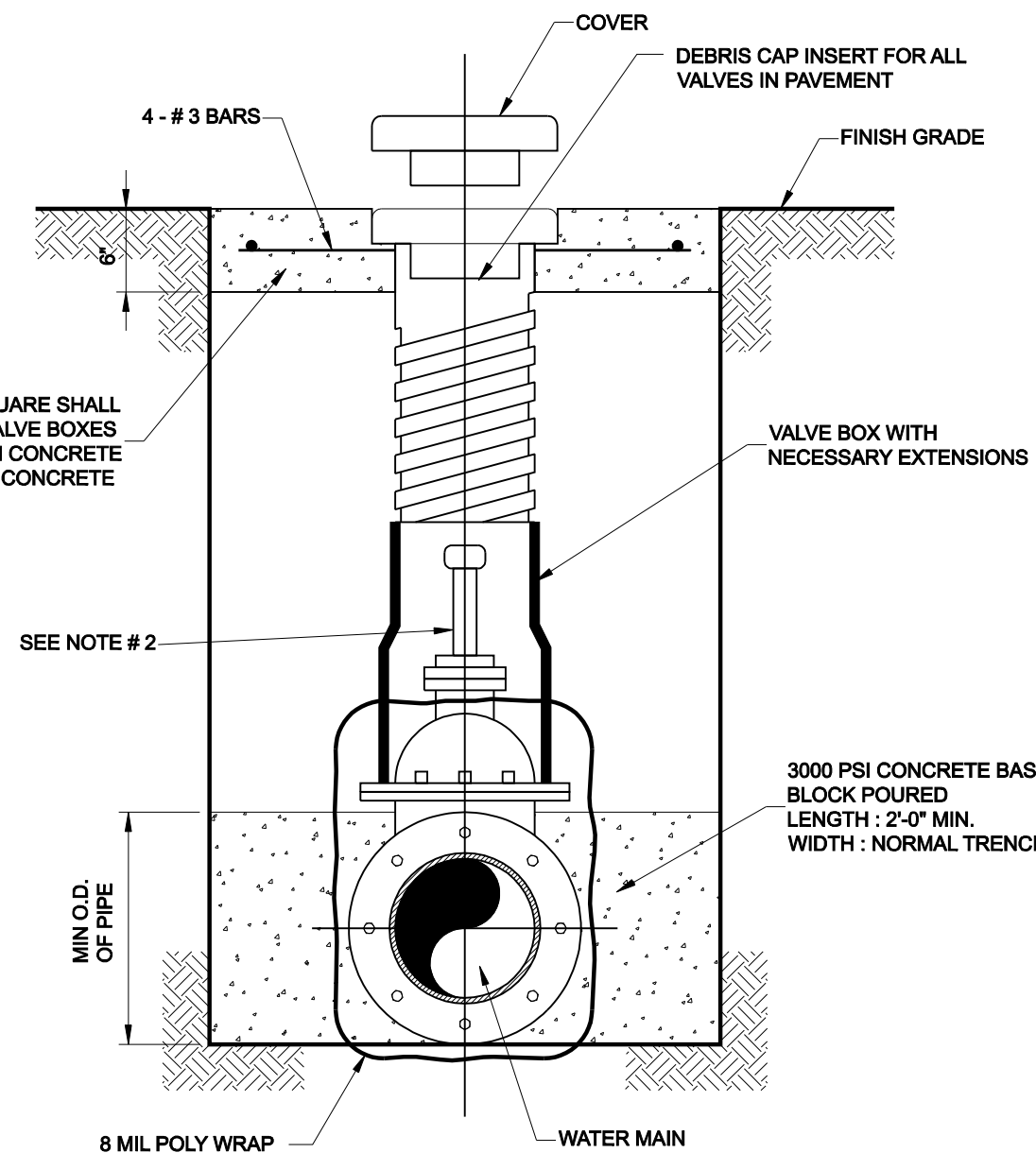


SPRING LOCK VALVE EXTENSION



VALVE BOX WITH EXTENSION

ALL CAST IRON FITTINGS SHALL BE DOMESTIC.



TYPICAL VALVE SETTING & BOX

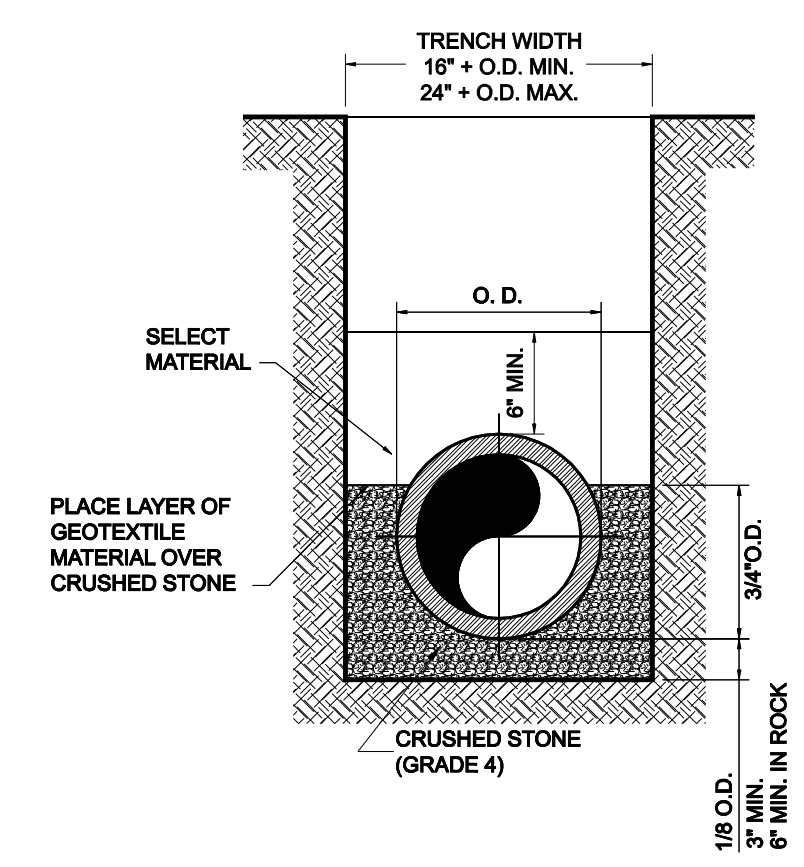
NOTE:

1. 4"-12" R.S. GATE VALVES SHALL BE IN ACCORDANCE WITH TOWN OF ADDISON WATER SYSTEM REQUIREMENTS AND AWWA STD C509. ALL VALVES SHALL BE MUELLER OR APPROVED EQUAL.

2. A PERMANENTLY ATTACHED VALVE EXTENSION STEM SHALL BE REQUIRED FOR ANY VALVE THATS OPERATING NUT IS LOCATED IN EXCESS OF 5 FEET BELOW THE TOP OF VALVE BOX. THIS EXTENSION SHALL BE OF SUFFICIENT LENGTH TO INSURE THAT ITS TOP IS WITHIN 5 FEET OF VALVE BOX LID.

3. BLUE DOT (3") ON NEAREST CURB FACE TO VALVE.

4. ALL IRON MATERIALS SHALL BE DOMESTIC.



CLASS "B+" EMBEDMENT

TYPICAL BACKFILL WATER MAIN P.V.C. WATER PIPE



NO.	REVISION	BY	DATE
TOWN OF ADDISON DALLAS COUNTY, TEXAS PARK AND STREETSCAPE IMPROVEMENTS VITRUVIAN PARK			
UTILITY DETAILS			
icon Consulting Engineers, Inc.		250 W. Southlake Blvd., Suite 117 Southlake, Tx 76092 (817) 552-6210	
PROJECT	DESIGN	DRAWN	DATE
5029-01	ICE	ICE	APR 26, 2010
			FILE
			PW# 2009-04
			SHEET
			C408

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK