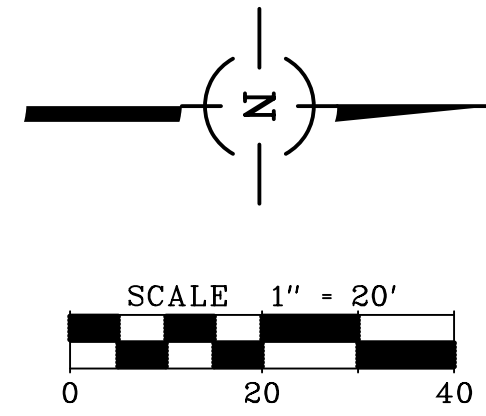
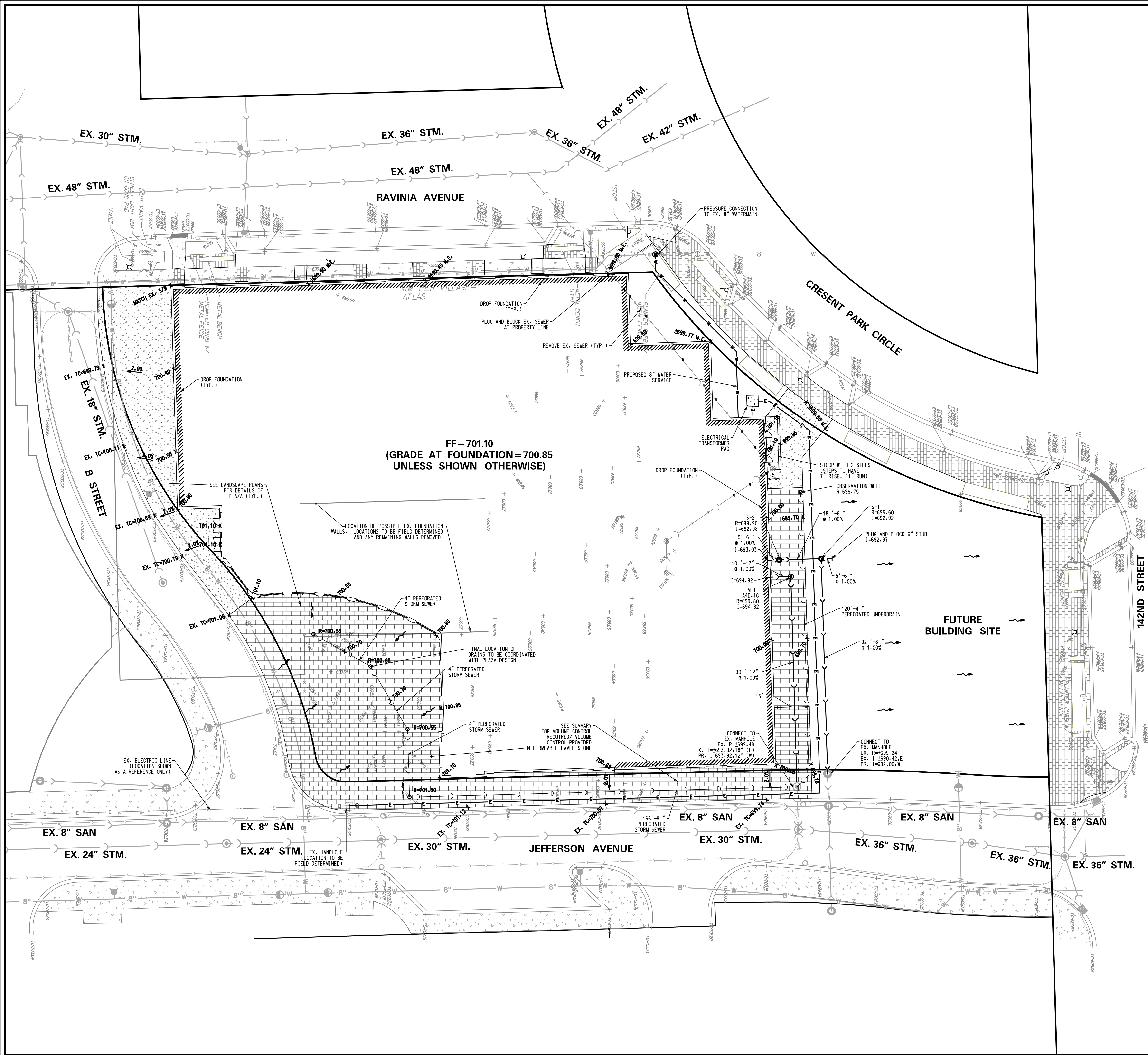
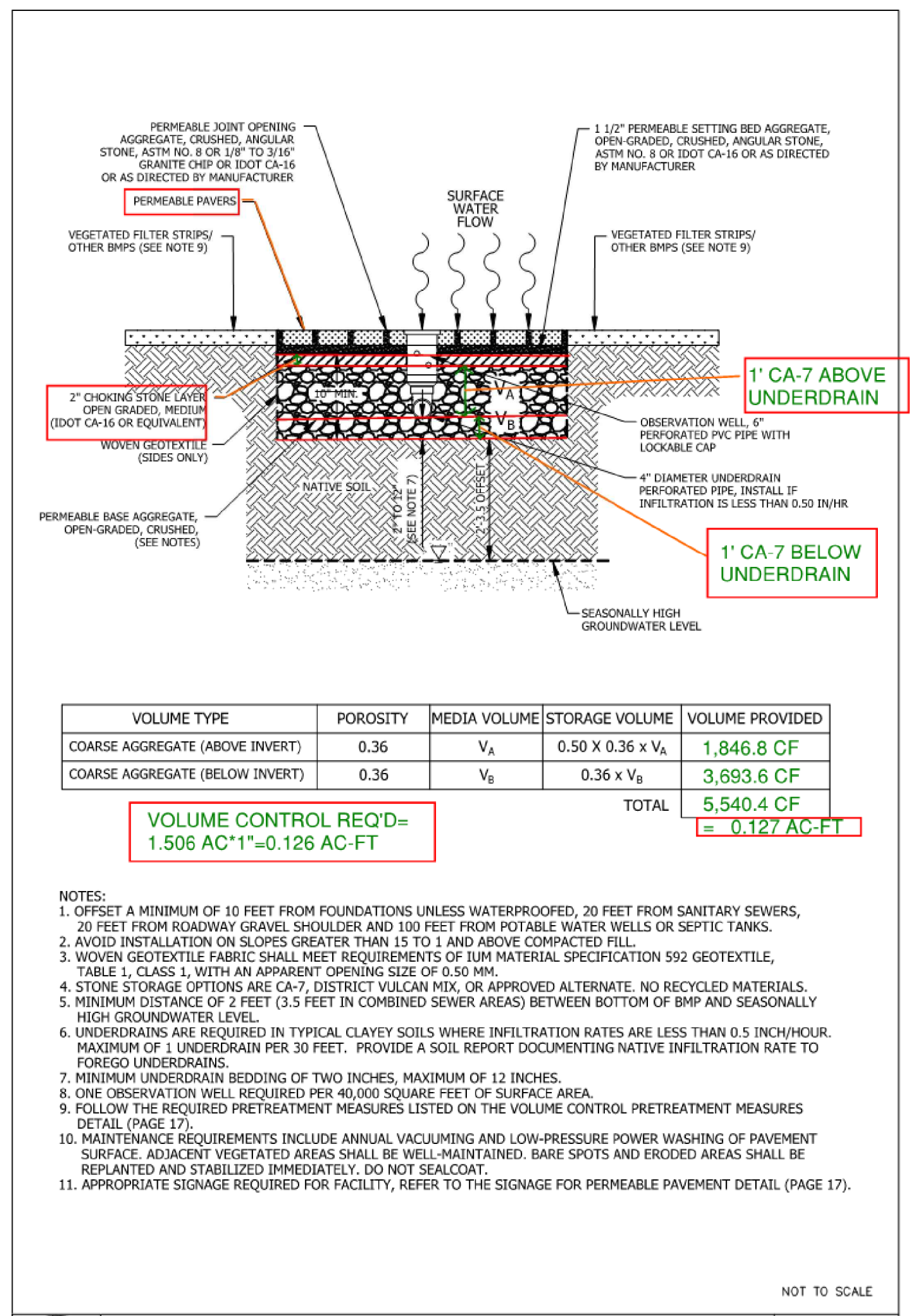




- LEGEND**
- CONCRETE SIDEWALK
 - PERMEABLE PAVERS
 - FLOW ARROW
 - STORM SEWER
 - SANITARY SEWER
 - WATERMAIN
 - ELECTRIC SERVICE
 - DROP FOUNDATION

- NOTES:**
- ALL UTILITY SIZES AND LOCATIONS ARE APPROXIMATE AND TO BE DETERMINED WITH FINAL DESIGN.
 - DETENTION PROVIDED OFFSITE IN ORLAND PARK TRIANGLE DETENTION BASIN.



VOLUME TYPE	POROSITY	MEDIA VOLUME	STORAGE VOLUME	VOLUME PROVIDED
COARSE AGGREGATE (ABOVE INVERT)	0.36	V_A	$0.50 \times 0.36 \times V_A$	1,846.8 CF
COARSE AGGREGATE (BELOW INVERT)	0.36	V_B	$0.36 \times V_B$	3,693.6 CF
TOTAL				5,540.4 CF

VOLUME CONTROL REQ'D= 1.506 AC*1"=0.126 AC-FT

- NOTES:**
- OFFSET A MINIMUM OF 10 FEET FROM FOUNDATIONS UNLESS WATERPROOFED, 20 FEET FROM SANITARY SEWERS, 20 FEET FROM ROADWAY GRAVEL SHOULDER AND 100 FEET FROM POTABLE WATER WELLS OR SEPTIC TANKS.
 - AVOID INSTALLATION ON SLOPES GREATER THAN 15 TO 1 AND ABOVE COMPACTED FILL.
 - WOVEN GEOTEXTILE FABRIC SHALL MEET REQUIREMENTS OF TUM MATERIAL SPECIFICATION 592 GEOTEXTILE, TABLE 1, CLASS 1, WITH AN APPARENT OPENING SIZE OF 0.50 MM.
 - STONE STORAGE OPTIONS ARE CA-7, DISTRICT VULCAN MIX, OR APPROVED ALTERNATE. NO RECYCLED MATERIALS.
 - MINIMUM DISTANCE OF 2 FEET (0.5 FEET IN COMBINED SEWER AREAS) BETWEEN BOTTOM OF BMP AND SEASONALLY HIGH GROUNDWATER LEVEL.
 - UNDERDRAINS ARE REQUIRED IN TYPICAL CLAYEY SOILS WHERE INFILTRATION RATES ARE LESS THAN 0.5 INCH/HOUR. MAXIMUM OF 1 UNDERDRAIN PER 30 FEET. PROVIDE A SOIL REPORT DOCUMENTING NATIVE INFILTRATION RATE TO FOREGO UNDERDRAINS.
 - MINIMUM UNDERDRAIN BEDDING OF TWO INCHES. MAXIMUM OF 12 INCHES.
 - ONE OBSERVATION WELL REQUIRED PER 40,000 SQUARE FEET OF SURFACE AREA.
 - FOLLOW THE REQUIRED PRETREATMENT MEASURES LISTED ON THE VOLUME CONTROL PRETREATMENT MEASURES DETAIL (PAGE 17).
 - MAINTENANCE REQUIREMENTS INCLUDE ANNUAL VACUUMING AND LOW-PRESSURE POWER WASHING OF PAVEMENT SURFACE. ADJACENT VEGETATED AREAS SHALL BE WELL-MAINTAINED. BARE SPOTS AND ERODED AREAS SHALL BE REPLANTED AND STABILIZED IMMEDIATELY. DO NOT SEALCOAT.
 - APPROPRIATE SIGNAGE REQUIRED FOR FACILITY, REFER TO THE SIGNAGE FOR PERMEABLE PAVEMENT DETAIL (PAGE 17).

VOLUME CONTROL SUMMARY

TOTAL LOT AREA = 1.506 AC.
ASSUME 100% LOT COVERAGE = 1.506 AC.
1" OVER IMPERVIOUS AREA = 0.126 AC-FT

PRELIMINARY ENGINEERING PLAN
ORLAND PARK TRIANGLE
CINEOPOLIS
ORLAND PARK, ILLINOIS

CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS



FILENAME:
4278.11P-ENG
DATE:
11/10/17
JOB NO.
4278.11
SHEET
P-ENG
1 OF 1

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