

**GENERAL INFORMATION:**  
 PROJECT NAME: 715 EAST  
 ADDRESS: 715 POLE LINE ROAD, DAVIS  
 APN: 070-544-027  
 OWNER: 715 EAST LLC  
 PROPOSED USE: MULTI-UNIT RESIDENTIAL  
 PROJECT AREA: 1.89 ACRES  
 PROPOSED IMPERVIOUS AREA: 0.88 ACRES  
 EXISTING IMPERVIOUS AREA: 1.26 ACRES  
 PROPOSED NEW PERVIOUS AREA: 0.38 ACRES

**GENERAL NOTES:**  
 A. TOTAL PROJECT AREA IS 82,285 SF (1.89 AC).  
 B. PROJECT TYPE: INFILL, RESIDENTIAL.  
 C. SOILS ARE GROUP A, PER USDA SOIL MAP VIEWER REPORT.  
 D. DEPTH TO GROUNDWATER IS YET TO BE DETERMINED.  
 E. SITE IS NOT IN A FEMA SPECIAL FLOOD HAZARD ZONE. IT IS PARTIALLY IN A FEMA ZONE X, WHICH IS AN AREA OF A 500-YEAR FLOOD, OR A 100-YEAR FLOOD WITH AVERAGE DEPTH LESS THAN 1 FOOT.

**SITE DESIGN MEASURES:**  
 1. PRESERVE NATURAL DRAINAGE PATTERNS.  
 2. DIRECT RUNOFF FROM IMPERVIOUS AREAS TO LANDSCAPED AREAS AND POROUS PAVEMENT. FLOW DIRECTION (→).  
 3. PLANT TREES ADJACENT TO IMPERVIOUS AREAS. TREE LOCATIONS TO BE IDENTIFIED WITH FINAL CONSTRUCTION DOCUMENTS.  
 4. INSTALL POROUS PAVEMENT.  
 5. SEE SUMMARY TABLE ON SHEET C502 FOR SMARTS VOLUME CREDITS.

**POTENTIAL POLLUTION SOURCES AND CONTROL MEASURES:**  
 1. STORM DRAIN INLET. MARK WITH WORDS "NO DUMPING! FLOWS TO CREEK". SEE UTILITY PLAN FOR FURTHER DETAIL.

**TREATMENT CONTROL MEASURES:**  
 1. TREATMENT CONTROL VOLUME REQUIREMENTS SATISFIED BY VOLUME CREDITS FOR SITE DESIGN MEASURES, PER CALCULATIONS IN SUMMARY TABLE ON SHEET C502.

**HYDROMODIFICATION CONTROL MEASURES:**  
 1. THE PROPOSED PROJECT REDUCES THE AREA OF IMPERVIOUS SURFACE AREA. THEREFORE REDUCING THE TOTAL RUNOFF FROM THE SITE.

SUMMARY TABLE OF SMARTS INPUT/OUTPUT AND TREATMENT VOLUME CALCULATIONS

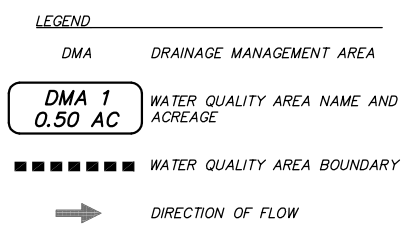
DMA	AREA, AC	SOIL GROUP	INPUT				OUTPUT <sup>(A)</sup>				ADDITIONAL REQUIRED TREAT. VOL., CU FT <sup>(D)</sup>			
			EXISTING CONDITIONS		PROPOSED CONDITIONS		EX. CONDITIONS		PROP. CONDITIONS					
			AREA, IMPERV., ROOF, ACRE	AREA, IMPERV., NON-ROOF, ACRE	NON-BUILT LAND USE TYPE	AREA, IMPERV., ROOF, ACRE	AREA, IMPERV., NON-ROOF, ACRE	85TH % RAIN DEPTH, IN.	CURVE NUMBER	RUNOFF VOLUME, CU FT	CURVE NUMBER	(REQUIRED TREAT. VOL.) RUNOFF VOLUME, CU FT <sup>(B)</sup>	VOLUME CREDITS, CU FT <sup>(C)</sup>	
1	1.89	A	WOOD & GRASS: <50% COVER	0.76	0.496	WOOD & GRASS: <50% COVER	0.652	0.226	0.65	84	2178	66.000	1736.0	1830.0
														0
													SUM	0

SUMMARY CALCULATIONS FOR STORAGE VOLUME PROVIDED BY BMP'S.

BMP	TYPE	STORAGE VOLUME PROVIDED			VOLUME, CU FT <sup>(A)</sup>	HYDROMOD. VOL., CU FT <sup>(C)</sup>	PROVIDED VOL. > REQUIRED
		COMPONENT	AREA, SF	DEPTH, FT			
1	Porous Pavement	ROCK	13297.0000	3	0.4	15956.4	
		SAND	13297.0000	0.1875	0.4	997.3	
						16953.7	

(A) AS CALCULATED BY CALIFORNIA WATER BOARDS STORM WATER MULTIPLE APPLICATION & REPORT TRACKING SYSTEM (SMARTS), "HTTPS://SMARTS.WATERBOARDS.CA.GOV/SMARTS".  
 (B) STORMWATER GENERATED BY THE 85TH PERCENTILE, 24-HOUR STORM. IS ALSO EQUAL TO THE REQUIRED TREATMENT VOLUME.  
 (C) TREATMENT VOLUME CREDITS CALCULATED BY SMARTS FOR SITE DESIGN MEASURES. SEE SUMMARY TABLE ON THIS SHEET FOR LIST OF PROPOSED SITE DESIGN MEASURES.  
 (D) ADDITIONAL REQUIRED TREATMENT VOLUME = REQUIRED TREATMENT VOLUME - TREATMENT VOLUME CREDITS. IF CALCULATION < 0, ADDITIONAL REQUIRED TREATMENT VOLUME = 0.

(A) VOLUME = AREA X DEPTH  
 (B) THE PROJECT REDUCES THE AMOUNT OF IMPERVIOUS SURFACE OF THE SITE, THEREFORE HYDROMODIFICATION REQUIRED = 0



Summary Table of SMARTS Volume Credits

DMA	Site Design Measure	Input (Sq Ft)	Output (Sq Ft)	Volume Credits (Cu Ft)
1	Area of Porous Concrete with 4 in of gravel base	13297	13297	1830
	Downspout disconnection	18468	14375	
	Proposed Deciduous Trees	6970	6970	
	<b>Total</b>			<b>1830</b>

DESIGNED BY NUB					
DRAWN BY MCS					
CHECKED BY PF					
REV.	DATE	DESCRIPTION	BY	APP'D.	

**LM LAUGENOUR AND MEIKLE**  
 CIVIL ENGINEERING · LAND SURVEYING · PLANNING  
 608 COURT STREET, WOODLAND, CALIFORNIA 95695 · PHONE: (530) 662-1755  
 P.O. BOX 828, WOODLAND, CALIFORNIA 95776 · FAX: (530) 662-4602

BY: NEIL U. BUSCH  
 DATE: 08/17/21 P.E. 68595



**IMPROVEMENT PLANS FOR 715 EAST APARTMENTS**

CITY OF DAVIS CALIFORNIA

**STORMWATER CONTROL PLAN**

SCALE: 1"=20'

SHEET 1 OF 1

DATE: 08/17/21  
 JOB NO. 4380-1-2