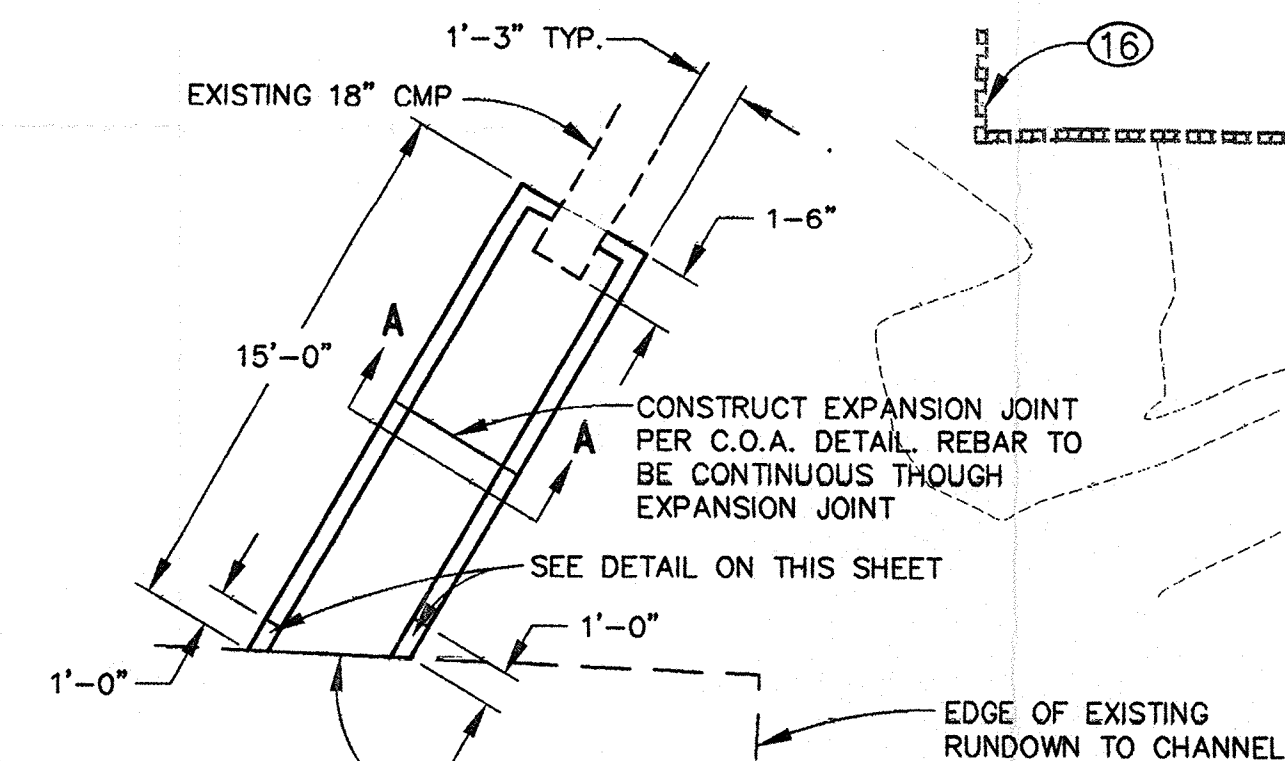
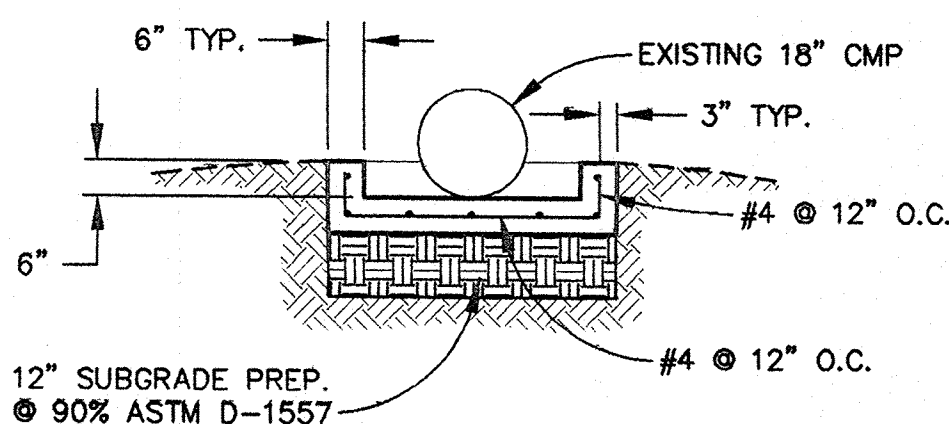


SURVEY NOTES:

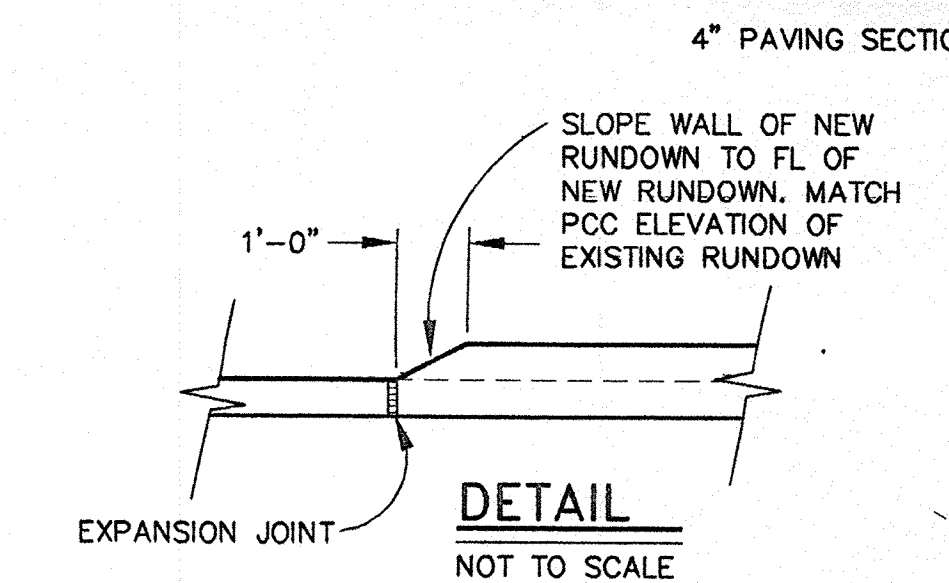
- Coordinates are modified (surface) New Mexico State Plane - Central Zone, NAD 27 and have been adjusted to the City of Albuquerque Control stations 2-D20A and 6-C19 (Project Average Combined Factor = .99964777).
- Elevations are referred to sea level, NGVD 29, and have been adjusted to the City of Albuquerque Control station 2-D20A.
- Utility information shown is based on physical features such as valves, manholes etc. The surveyor makes no guarantee as to the completeness or accuracy of buried utilities shown hereon. The contractor should verify the actual locations of buried utilities prior to excavation.



CONCRETE RUNDOWN
NOT TO SCALE



SECTION A-A
NOT TO SCALE



DETAIL
NOT TO SCALE

HYDROLOGY CALCULATIONS

THE EXISTING SITE FOR THE BARSTOW PARK, PHASE II CONSISTS OF IMPROVEMENTS TO 1.142 ACRES OF THE PARK. THESE IMPROVEMENTS WILL CONSIST OF A NEW ASPHALT PATH, NEW GRASS AND NATURAL LANDSCAPED AREAS, AND A NEW PARKING LOT ALONG BARSTOW. THE EXISTING PCC PATH AND GAZEBO AREA WILL REMAIN. THE HYDROLOGY FOR THE PARK WAS DEVELOPED USING CHAPTER 22.2 OF THE CITY OF ALBUQUERQUE DPM. THE PARK IS LOCATED IN ZONE 4 AS DELINEATED IN THE DPM. LAND USE WAS DETERMINED USING TABLE A-4, PAGE 22-10 AND THE PEAK RAINFALL RUNOFF (CFS PER ACRE) IS TAKEN FROM TABLE A-9, PAGE 22-15.

EXISTING CONDITIONS RUNOFF:

THE AREA THAT IS OUTLINED AND DENOTED BY KEYED NOTE 22 SHOWS THE LIMITS OF THE AREA USED FOR THE EXISTING HYDROLOGY ANALYSIS. THE EXISTING PARK CONSIST OF AN EXISTING PCC SIDEWALK (KEYED NOTE 4), AN EXISTING GAZEBO (KEYED NOTE 5), AND LANDSCAPED AREAS (REMAINDER OF OUTLINED AREA). THE EXISTING PARK IS NOT IRRIGATED. THE LAND USE AND RUNOFF RATES ARE PRESENTED IN THE FOLLOWING TABLE:

DESCRIPTION	LAND USE	PEAK DISCHARGE, CFS/ACRE	AREA, ACRES	RUNOFF RATE, CFS
PCC SIDEWALK AND GAZEBO	D	5.25	0.064	0.34
LANDSCAPED AREAS	A	2.20	1.078	2.37
TOTAL			1.142	2.71

THIS RUNOFF WILL FLOW OVERLAND TO THE DOMINGO BACA ARROYO.

PROPOSED CONDITIONS RUNOFF:

THE AREA THAT IS OUTLINED AND DENOTED BY KEYED NOTE 23 SHOWS THE LIMITS OF THE AREA USED FOR THE PROPOSED HYDROLOGY ANALYSIS. THE PROPOSED IMPROVEMENTS TO THE PARK WILL CONSIST OF A NEW ASPHALT PATH (KEYED NOTES 1 AND 2), A PARKING AREA ADJACENT TO BARSTOW STREET (KEYED NOTES 7), AND NEW LANDSCAPING WITH AN IRRIGATION SYSTEM (REMAINDER OF OUTLINED AREA). THE NEW PARKING AREA ADJACENT TO BARSTOW STREET WILL DRAIN TO THE STREET WHILE THE REMAINDER OF THE PARK WILL DRAIN TO THE DOMINGO BACA ARROYO AS IT CURRENTLY DOES. THE LANDSCAPING WILL CONSIST OF GRASS IN THE MAIN AREA OF THE PARK JUST SOUTH OF THE GAZEBO AND NATURAL LANDSCAPING IN ALL OTHER AREAS. THE LAND USE AND RUNOFF RATES ARE PRESENTED IN THE FOLLOWING TABLE:

DESCRIPTION	LAND USE	PEAK DISCHARGE, CFS/ACRE	AREA, ACRES	RUNOFF RATE, CFS
PCC SIDEWALK AND GAZEBO	D	5.25	0.064	0.34
NEW ASPHALT PATH	D	5.25	0.141	0.74
PARKING AREA	D	5.25	0.064	0.34
LANDSCAPED AREAS	A	2.20	0.873	2.56
TOTAL			1.142	3.98

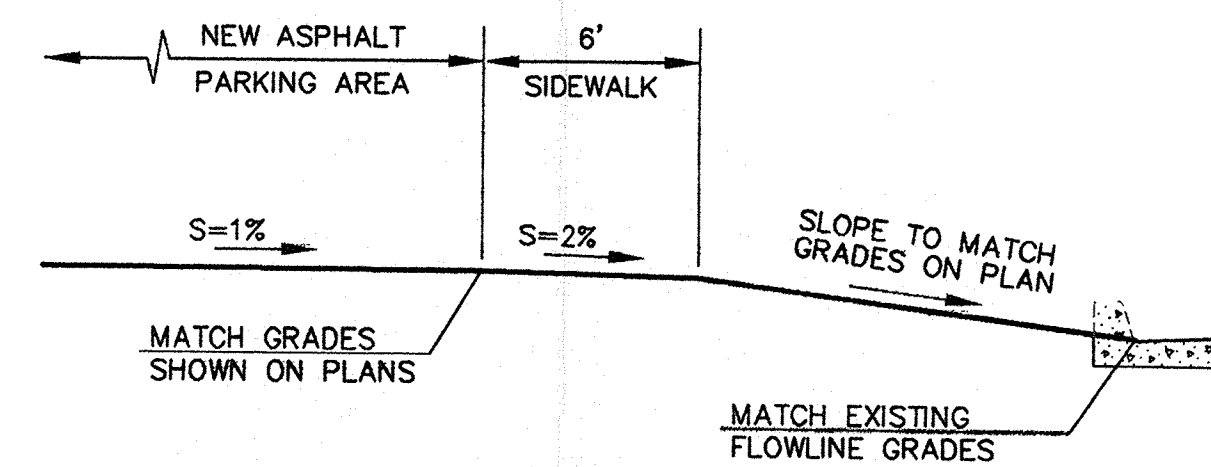
CONCLUSIONS:

CONDITIONS	RUNOFF RATE, CFS
EXISTING PARK	2.71
PROPOSED IMPROVEMENTS	3.98
INCREASE IN FLOW DUE TO PROPOSED IMPROVEMENTS	1.27

THE TABLE ABOVE SHOW AN INCREASE IN RUNOFF OF 1.27 CFS AS A RESULT OF THE IMPROVEMENTS TO THE PARK. OF THE 1.27 CFS IMPROVEMENTS, 0.34 CFS WILL FLOW TO BARSTOW STREET FROM THE NEW PARKING AREA, AND WILL THEN MOVE SOUTH ON BARSTOW TO THE DOMINGO BACA ARROYO. THE TOTAL FLOW FROM THE PARK TO THE DOMINGO BACA ARROYO WILL BE 3.64 CFS.

KEYED NOTES:

- CONSTRUCT NEW 6' WIDE ASPHALT PATH ON TOP OF PREPARED SUBGRADE MIXED WITH EXISTING CRUSHER FINE PATH MATERIAL. SEE SECTION ON THIS SHEET. SEE HORIZONTAL AND VERTICAL LAYOUT PLAN, SHEET 5. SEE 6' WIDE SIDEWALK SECTION ON SHEET 5.
- CONSTRUCT NEW 10' WIDE ASPHALT PATH ON TOP OF PREPARED SUBGRADE MIXED WITH EXISTING CRUSHER FINE PATH MATERIAL. SEE SECTION ON THIS SHEET. SEE HORIZONTAL AND VERTICAL LAYOUT PLAN, SHEET 5. SEE 10' WIDE SIDEWALK SECTION ON SHEET 5.
- 6' WIDE ASPHALT PATH. SEE HORIZONTAL AND VERTICAL LAYOUT PLAN, SHEET 5. SEE 6' WIDE SIDEWALK SECTION ON SHEET 5.
- EXISTING CONCRETE PATH TO REMAIN UNDISTURBED.
- EXISTING CONCRETE SLAB AND RAMADA TO REMAIN UNDISTURBED.
- EXISTING 4' WIDE CONCRETE SIDEWALK TO REMAIN.
- CONSTRUCT NEW PARKING LOT, SEE PAVEMENT SECTION ON SHEET 5. SEE HORIZONTAL AND VERTICAL LAYOUT PLAN, SHEET 5.
- CONSTRUCT NEW DRIVEPAD PER CITY OF ALBUQUERQUE STANDARD DRAWING 2425, EXCEPT AS MODIFIED BY SECTION ON THIS SHEET.
- REMOVE 25 LF OF EXISTING 4' WIDE BY 4" THICK SIDEWALK AND CONSTRUCT 25 LF OF 4' WIDE BY 6" THICK SIDEWALK.
- REMOVE 175 LF OF EXISTING FENCE AND REPLACE WITH HIGH TENSILE FENCE. SEE SITE PLAN, SHEET 3.
- EXISTING 18" CMP TO REMAIN IN PLACE. REMOVE AND DISPOSE OF ALL DEBRIS AROUND AND WITHIN THE EXISTING 18" CMP CULVERT.
- INSTALL BENCH ON CONSTRUCTED CONCRETE SLAB. SEE SITE PLAN, SHEET 3.
- END NEW FENCE AT EXISTING GUARDRAIL.
- INSTALL TRASH RECEPTACLE ON CONSTRUCTED CONCRETE SLAB. SEE SITE PLAN, SHEET 3.
- INSTALL STEEL EDGE. SEE SITE PLAN, SHEET 3.
- EXISTING MASONRY WALL TO REMAIN UNDISTURBED.
- EXISTING GATE TO REMAIN UNDISTURBED.
- CONSTRUCT NEW 6" WIDE CONCRETE MOW-STRIP. SEE SITE PLAN, SHEET 3.
- INSTALL DEPRESSED MEDIAN CURB & GUTTER PER CITY OF ALBUQUERQUE STD. DWG. 2415.
- REMOVE AND REPLACE ASPHALT PAVEMENT SECTION PER C.O.A. SPECIFICATIONS.
- FLOW ARROW (TYP.)
- EXISTING CONDITIONS HYDROLOGY ANALYSIS AREA
- PROPOSED CONDITIONS HYDROLOGY ANALYSIS AREA

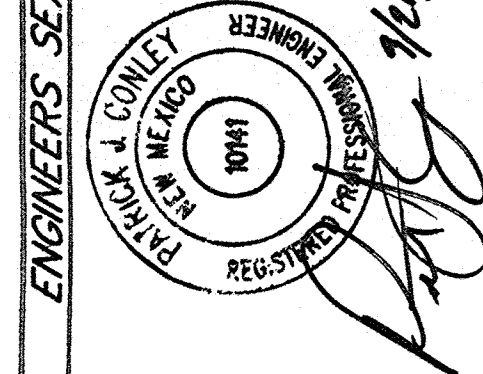


DRIVEPAD SECTION
NOT TO SCALE

PROJECT NO. 199603
Smith Engineering Company
A Full Service Engineering Company
4000 University Blvd., N.E. Suite 2000 Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PARKS AND RECREATION DEPARTMENT
TITLE: BARSTOW PARK IMPROVEMENTS PROJECT
GRADING AND DRAINAGE PLAN

Design Review Committee	City Engineer Approval	Ms. / Day / Yr.	Ms. / Day / Yr.
City Project No. 4584.91	Zone Map No. D-19	Sheet 4	Of 10



AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEERS SEAL	
CONTRACTOR	DATE	AS ALUMINUM CAP STAMPED "6-C19 1985" LOCATED AT THE INTERSECTION OF PASEO DEL NORTE AND BARSTOW STREET. APPROXIMATELY 27' WEST OF THE CENTERLINE OF BARSTOW STREET AND 37.4' NORTH OF THE CENTERLINE OF PASEO DEL NORTE.	DATE	NO.	DATE	NO.	DATE
WORK	DATE	DATE	DATE	1	8/99		
DESIGNED BY: PJC	DATE: 8/99						
DRAWN BY: MJR	DATE: 8/99						
CHECKED BY: PJC	DATE: 8/99						