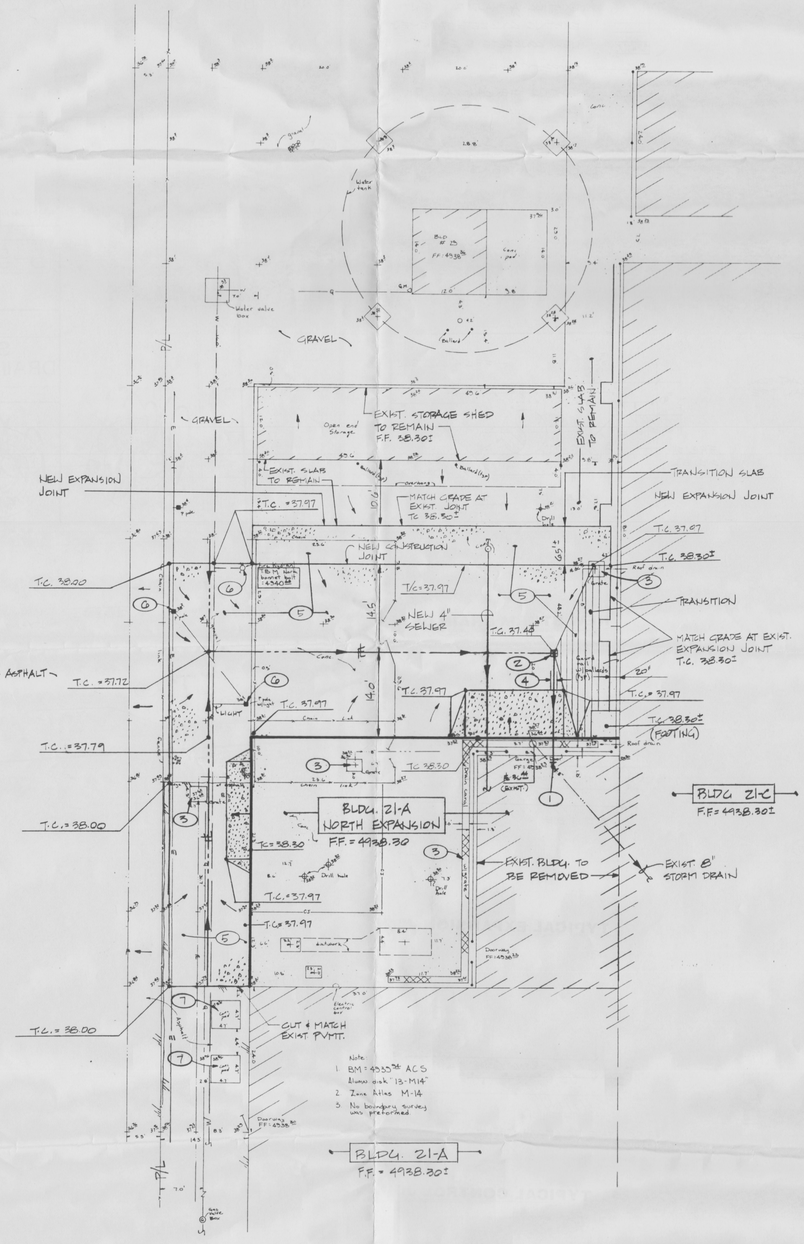
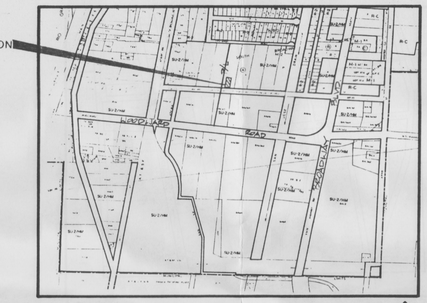


GRADING AND DRAINAGE PLAN

1" = 10'

PROJECT LOCATION



LOCATION MAP M-14

N.T.S.

LEGAL DESCRIPTION:
LOT 17, SOUTH BROADWAY ACRES

LEGEND

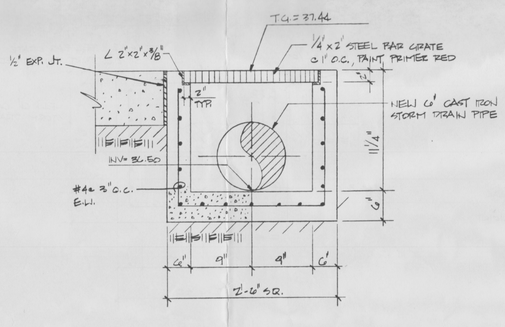
- 58.23 — EXISTING SPOT ELEVATION
- 38.22 — NEW SPOT ELEVATION
- F.F. — FINISHED FLOOR
- DIRECTION OF FLOW
- T.B.M. — TEMPORARY BENCH MARK
- EXISTING DRAIN PIPE
- EXISTING CHAIN LINK FENCE
- EXISTING BUILDING
- EXISTING GAS LINE
- EXISTING WATER LINE
- EXISTING ASPHALT PAVEMENT
- EXISTING CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT
- P/L — PROPERTY LINE
- EXISTING TRENCH DRAIN
- T.G.= — TOP OF GRATE
- T.C.= — TOP OF CONCRETE
- FLOW LINE OF NEW CONC. SWALE

GENERAL NOTES

1. THIS PROJECT IN GENERAL CONSISTS OF THE REMOVAL OF A 874 SQUARE FOOT BUILDING ATTACHED TO THE NORTH END OF BUILDING 21-A, AND THE CONSTRUCTION OF A NEW 2460 SQUARE FOOT BUILDING ATTACHED TO BUILDING 21-A. THE PROJECT AREA PRESENTLY CONSISTS OF EITHER EXISTING BUILDINGS OR CONCRETE PAVEMENT.
2. THE GRADING PLAN SHOWS
   A) EXISTING GRADES INDICATED BY SPOT ELEVATIONS AS OBTAINED BY A TOPOGRAPHIC SURVEY PERFORMED BY MARQUEZ SURVEYING IN MAY 1990.
   B) THE GENERAL CONCEPT OF THE DRAINAGE PATTERN FOR THE GRADING AND DRAINAGE ARE INDICATED BY NEW SPOT ELEVATIONS AND FLOW ARROWS.
3. THE GENERAL CONCEPT OF THIS PLAN IS TO DIRECT ALL OF THE EXISTING FLOWS GENERATED ON THE SITE INTO THE SAME DISCHARGE POINT. THE POINT OF DISCHARGE WILL BE INTO AN EXISTING 8-INCH LINE WHICH RUNS EAST UNDER BUILDING 21-C.
4. AS A RESULT OF THIS DEVELOPMENT, THE FLOW WILL NOT BE INCREASED INTO THE EXISTING POINT OF DISCHARGE.
5. THERE ARE NO OFF-SITE FLOWS ACCEPTED INTO THE PROJECT AREA, AND FLOWS FROM THE PROPOSED IMPROVEMENTS WILL NOT CROSS PROPERTY LINES.
6. THE PROPOSED FEATURES OUTLINED ON THIS PLAN ARE SHOWN IN GENERAL LOCATION ONLY. SEE DRAWING S-1 FOR ACTUAL LOCATIONS.
7. SEE DRAWING AD-1 FOR THE REMOVAL OF EXISTING STRUCTURES IN THIS AREA.
8. THE EXISTING UTILITIES ARE SHOWN IN THEIR APPROX. LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXACT LOCATION OF ALL UTILITIES.

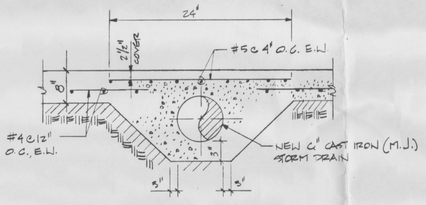
CONSTRUCTION NOTES

1. TIE INTO EXISTING 8-INCH STORM DRAIN WITH A NEW 8-INCH CAST IRON 45° ELBOW, AND A 8" X 6" ECCENTRIC REDUCER AT INVERT 36.40 ±, CONCRETE ENCASE CONNECTION.
2. CONSTRUCT NEW CATCH BASIN, SEE DETAIL THIS DRAWING.
3. REMOVE EXISTING CATCH BASIN AND ASSOCIATED DRAIN PIPES.
4. INSTALL NEW 6-INCH STORM DRAIN. SEE DETAIL THIS DRAWING.
5. CONSTRUCT 8-INCH CONCRETE SLAB. SEE DETAIL THIS DRAWING.
6. INSTALL EXPANSION JOINT MATERIAL AROUND PERIMETER OF FIXTURE. SEAL WITH ELASTOMERIC SEALER.
7. PATCH ASPHALT AFTER REMOVAL OF EXISTING EQUIPMENT PADS AND INSTALLATION OF NEW EQUIPMENT PADS (MATCH EXISTING SECTION). SEE DRAWING AD-1 FOR PAD REMOVALS. SEE DRAWING A-1 FOR NEW PAD LOCATIONS.



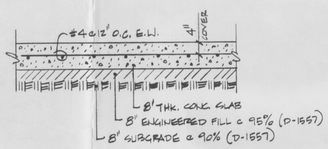
CATCH BASIN DETAIL

N.T.S



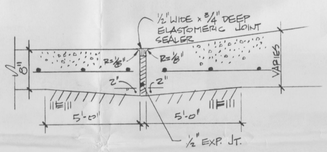
NEW STORM DRAIN DETAIL

N.T.S.



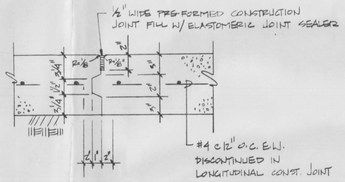
CONCRETE SLAB DETAIL

N.T.S.



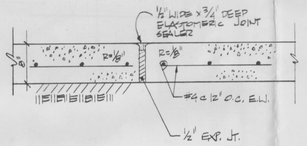
TYPICAL EXPANSION JOINT AT RAMPS

N.T.S.



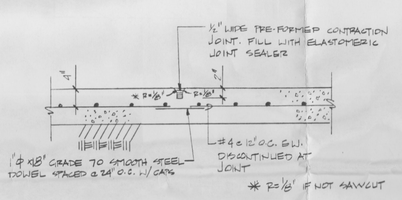
TYPICAL CONSTRUCTION JOINT

N.T.S.



TYPICAL EXPANSION JOINT

N.T.S.



* R=1/8" IF NOT SAWCUT

TYPICAL CONTROL JOINT

N.T.S.

DRAINAGE CALCULATIONS

Q_{100} = CIA

C = 0.95 (composite)

I = 4.65 (Tc = 10 MINUTES MINIMUM, ASSUMED)

A = 0.16 ACRES (7200 S.F.)

RAINFALL VOLUME = 2.2" (100 YEAR FREQUENCY) FROM PLATE 22.2 D-1, DPM

Q_{100} = 0.95 X 4.65 X 0.16 = 0.70 CFS

Q_{100} = 0.70 CFS (EXISTING)

Q_{100} = 0.70 CFS (PROPOSED)

RECEIVED
JUN 13 1990
HYDROLOGY DIVISION

NO.	INDEX	DATE	REVISION	BY / CK'D / APP
2		6/1/90	DELETED CUTBACK OF BLDG.	DRA / PJC
1		5/29/90	CITY COMMENTS DTD. 5/23/90 ADDED "JOINT DETAILS" & DELETED NEW PAD	DRA / PJC

S-SEC Smith-Scheuch Engineering Company
Albuquerque, New Mexico

GENERAL ELECTRIC
AIRCRAFT ENGINE BUSINESS GROUP

SITE GRADING AND DRAINAGE PLAN / DETAILS

BUILDING 21-A NORTH EXPANSION

DESIGNED	DRA
DRAWN	DRA
CHECKED	PJC
APPROVED	BLC
APPROVED	KES
DATE	5/16/90
SCALE	AS NOTED
PROJECT NUMBER	PE-2129
DRAWING NUMBER	C-1
SHEET	8 OF 28

PATRICIO J. CANTU — NEW MEXICO — REGISTERED PROFESSIONAL ENGINEER — 10141