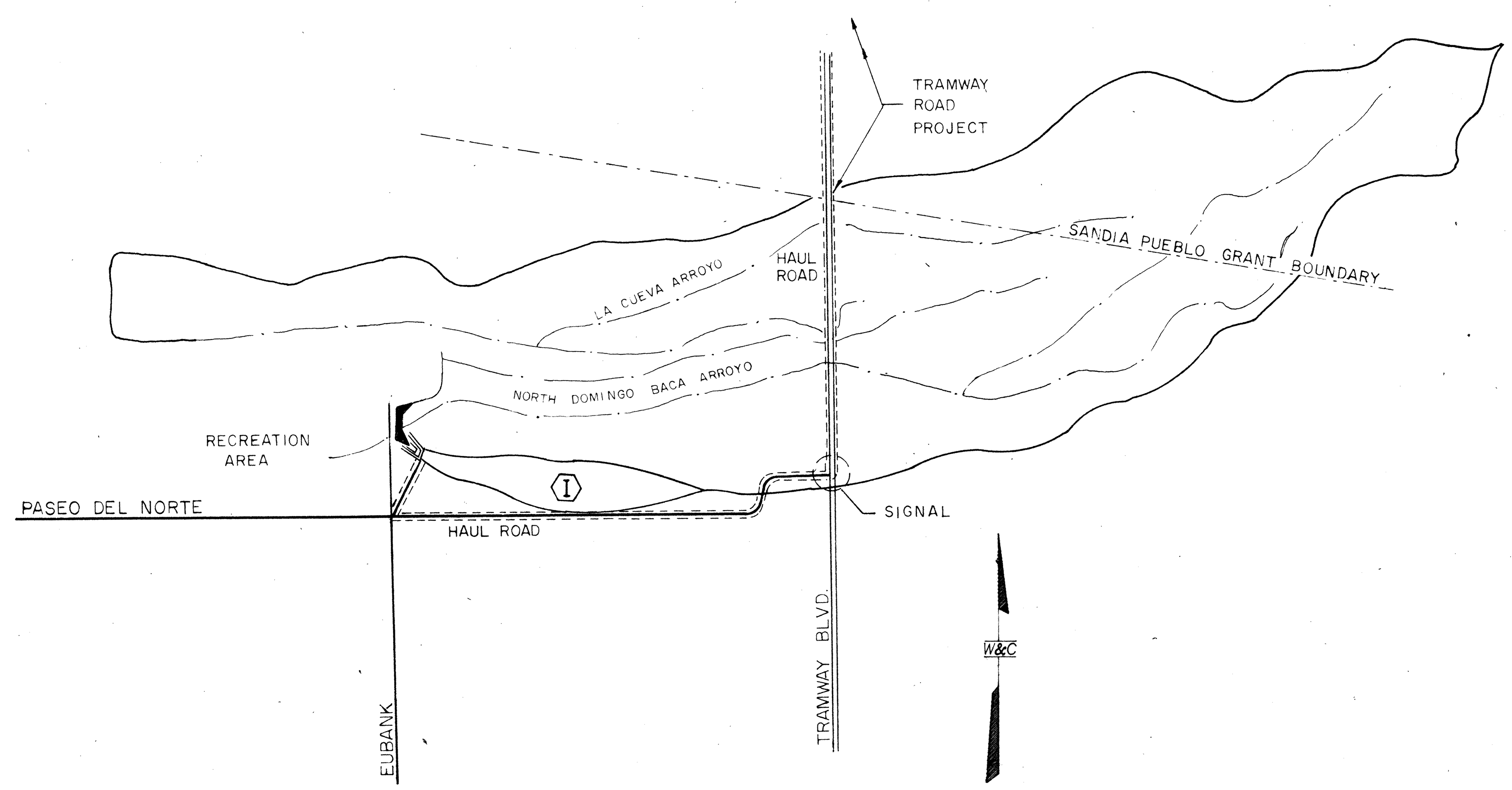
NORTH DOMINGO BACA DAM

DAM REVISIONS



LOCATION MAP

NOTE:

1. All work shown is to be completed as part of this project. This includes the ditch diverting flows from the east and south of the emergency spillway along with the concrete rundowns and seeding.

2. All embankment will be compacted to 95% of the Standard Proctor per the NMSH&TD Specifications.

3. Clearing & Grubbing of the embankment areas will be done prior to the placing of embankment per the NMSH&TD Specifications.

4. The NMSH&TD will test the embankment for compaction and send copies of the test results to the City.

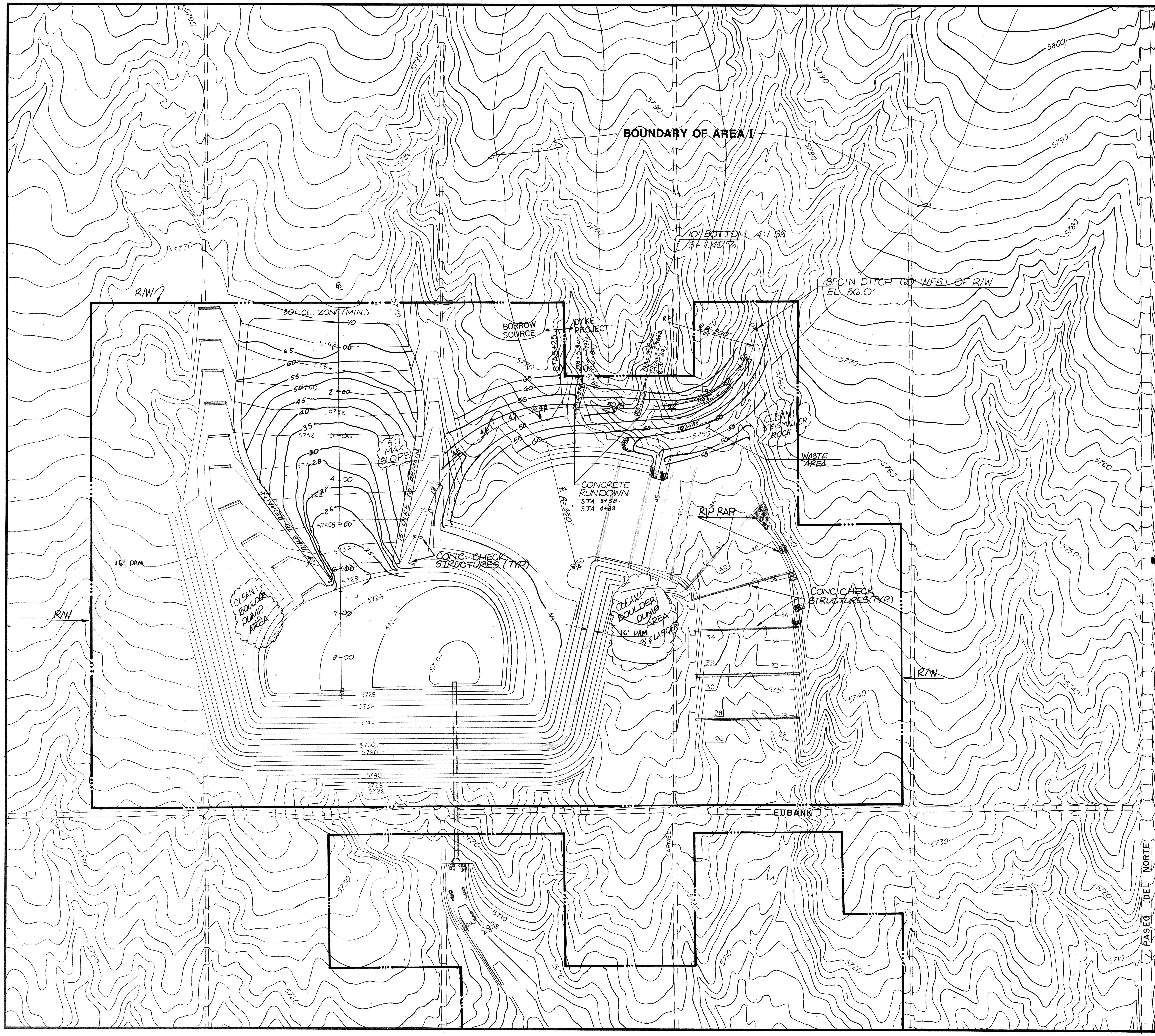
5. Boulders must be clean of excess material. The boulder stockpile locations shown on the plans are approximate and the locations may be adjusted as directed by the Project Manager.

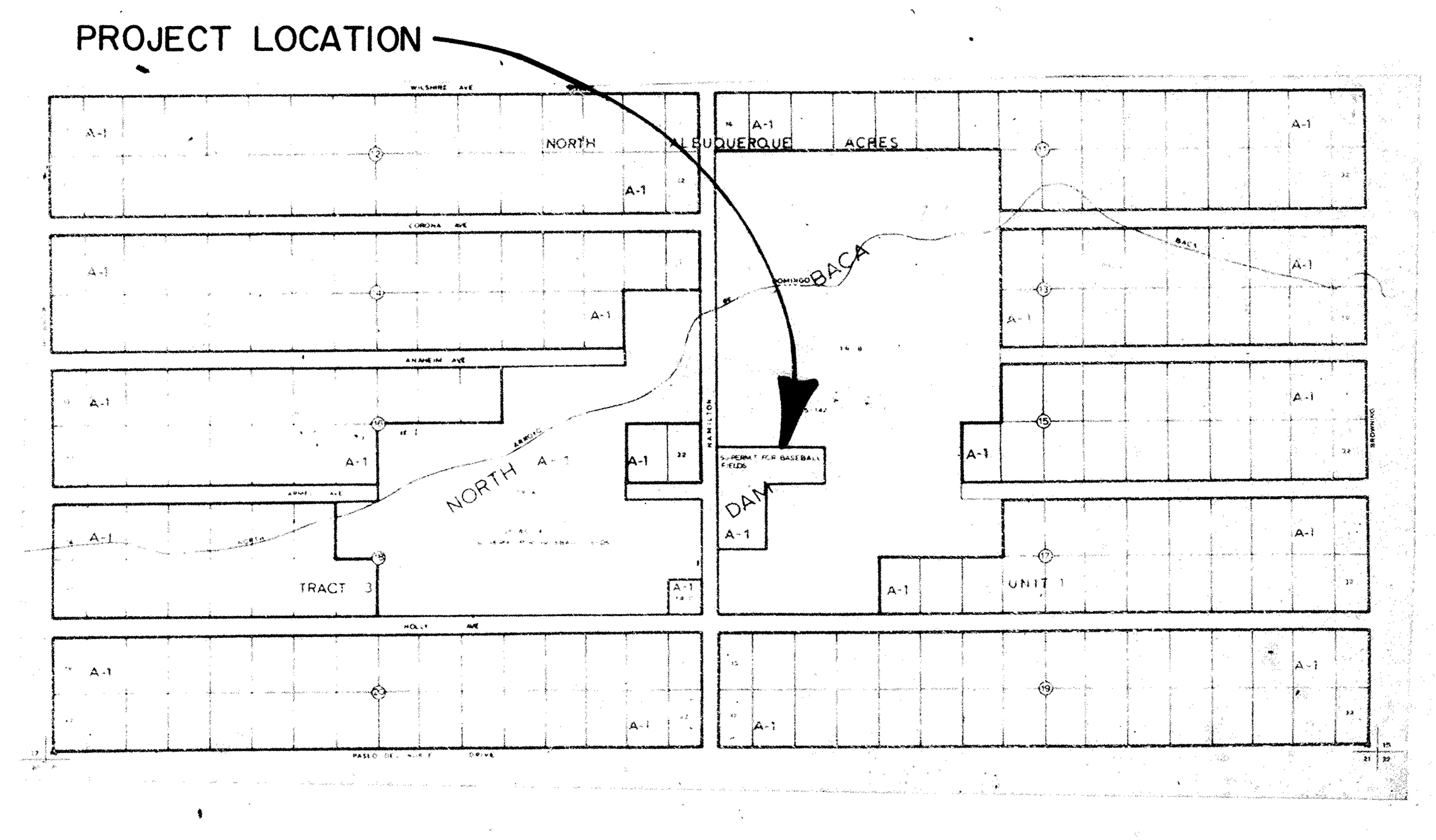
6. Concrete shall contain fly ash as per City of Albuquerque standard specifications.

AMAFCA PROJECT

⚠ Revised 9-11-89 to add Notes by SJM

WILSON & COMPANY ENGINEERS & ARCHITECTS
ALBUQUERQUE, NEW MEXICO





NORTH DOMINGO BACA DAM PROPERTIES

MAXIMUM HEIGHT ABOVE FOUNDATION CENTERLINE	34 FEET
LENGTH	1,700 FEET
MAXIMUM WIDTH AT BASE	230 FEET
CREST WIDTH	16 FEET
SLOPE UPSTREAM FACE	3:1
SLOPE DOWNSTREAM FACE	2.5:1
ELEVATION AT CREST OF DAM	5,760.0
FLOWLINE ELEVATION OF PRINCIPAL OUTLET AT INLET	5,720.0
ELEVATION AT EMERGENCY SPILLWAY CREST	5,749.0
WIDTH OF EMERGENCY SPILLWAY:	
EXISTING	200 FEET
WITH DA "I" & EXCAVATION	200 FEET
ULTIMATE	250 FEET
DISCHARGE CAPACITY OF EMERGENCY SPILLWAY	
AT ELEVATION 5758.2	15,300 CFS
(5858.7, ULTIMATE)	20,800 CFS
OUTLET CONDUIT SIZE AND TYPE	36" RCP
OUTLET CONDUIT CAPACITY AT ELEVATION 5749.0	160 CFS
EVACUATION TIME - EXISTING	18 HRS
ULTIMATE	28 HRS
STORAGE CAPACITY AT ELEVATION 5749.0 - EXISTING	124 AC-FT
WITH DA"I" & EXC	130 AC-FT
ULTIMATE	194 AC-FT
DRAINAGE AREA - EXISTING	1,221 AC
WITH DA"I" & EXCAVATION	1,287 AC
ULTIMATE	1,918 AC
PMP DESIGN RAINFALL	12.5" IN 1 HR
PMF PEAK INFLOW TO DAM - EXISTING	15,400 CFS
WITH DA"I" & EXC	15,470 CFS
WITH ULTIMATE	21,000 CFS
100-YEAR DESIGN RAINFALL	2.7" IN 1 HR
100-YEAR PEAK INFLOW TO DAM - EXISTING	1,960 CFS
WITH DA"I"&EXC	1,980 CFS
ULTIMATE	2,900 CFS
HAZARD CLASSIFICATION (SCS DEFINITION)	C
DISCHARGE CAPACITY OF EMERGENCY SPILLWAY AT	
ELEVATION 5760 - EXISTING	22,000 CFS
WITH DA"I" & EXC	22,000 CFS
ULTIMATE	26,000 CFS

ULTIMATE DESIGN INCLUDES THE DIVERSION OF APPROXIMATELY 610 ACRES OF THE LA CUEVA ARROYO TO THE NORTH DOMINGO BACA DAM.

RECORD DRAWING
DATE 1 Feb. 1990

0 100 200 300 400
SCALE IN FEET

GRADING PLAN

NORTH DOMINGO BACA DAM

DESIGN	DRAWN		DATE:
SJM	JRT	WILSON & COMPANY ENGINEERS & ARCHITECTS	8/89
		ALBUQUERQUE, NEW MEXICO	FILE NO. 89-522
			SHEET NO. 2 OF 8

STEVEN J. METRO
NEW MEXICO
8220
REGISTERED PROFESSIONAL ENGINEER

QS11C40,40E24X36,DGN 80R"A" SMA884

F H W A REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO	89-522	19	3	8

FINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

C of A PWD Maps & Records

1	2	3	4	5	6	7	8	9	10	11	12
2	6	-	4	2	0	6	0	3	9	0	

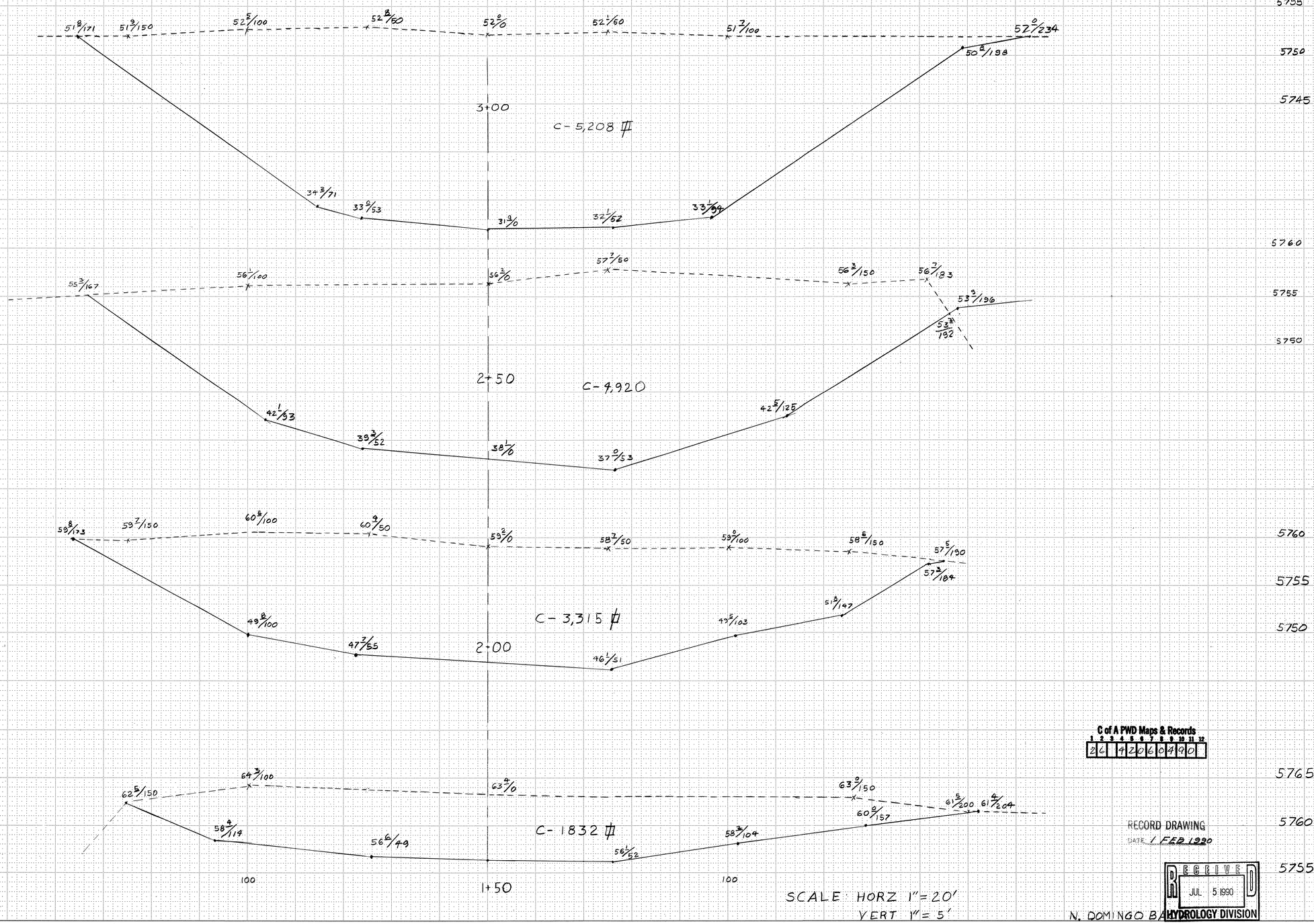
RECORD DRAWING
DATE: FEB 1990

RECEIVED
JUL 5 1990
HYDROLOGY DIVISION

F H W A REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO		19	4	8

FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE



C of A PWD Maps & Records
1 2 3 4 5 6 7 8 9 10 11 12
2 6 4 2 0 6 0 4 9 0

RECORD DRAWING
DATE 1 FEB 1990

RECEIVED
JUL 5 1990
HYDROLOGY DIVISION

SCALE: HORZ 1"=20'
VERT 1"=5'

N. DOMINGO BA

F H W A REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO	89-522	19	5	8

FINAL SURVEY
NOTE BOOK ____
NO. ____
SURVEYED ____
PLOTTED ____
TEMPLATE ____
AREAS ____
AREAS CHECKED ____
BY
DATE

ORIGINAL SURVEY
NOTE BOOK ____
NO. ____
SURVEYED ____
PLOTTED ____
TEMPLATE ____
AREAS ____
AREAS CHECKED ____
BY
DATE

C of A PWD Maps & Records
1 2 3 4 5 6 7 8 9 10 11 12
2 4 9 2 0 6 0 5 9 0 1

RECORD DRAWING
DATE / FEB 1990

HORZ 1"= 20'
VERT 1"= 5'

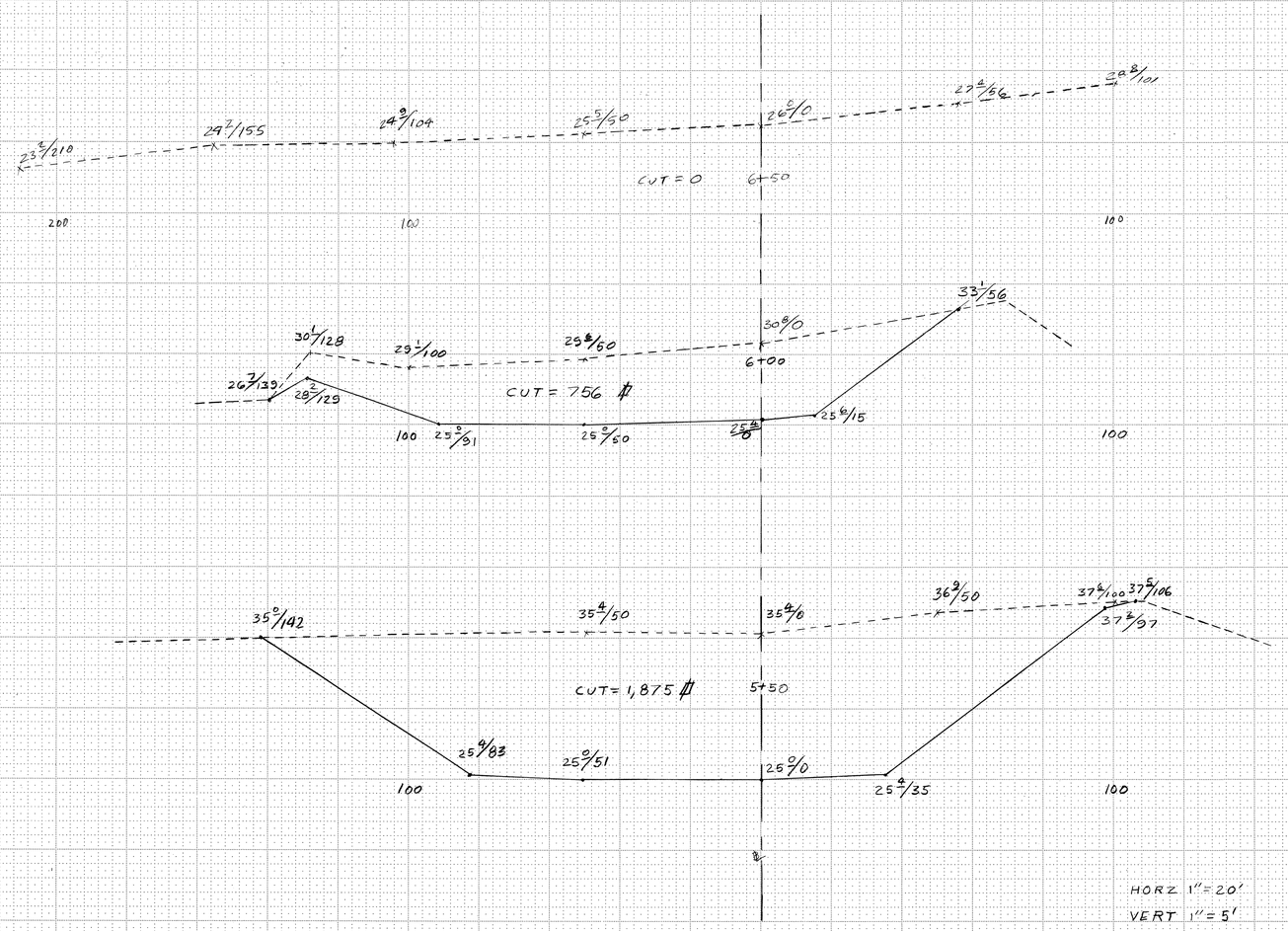
N DOMINGO BACA

RECEIVED
JUL 5 1990
HYDROLOGY DIVISION

F H W A REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO	89-522	19	6	8

FINAL SURVEY — NOTE BOOK — NO. ____ — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — NOTE BOOK — NO. ____ — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

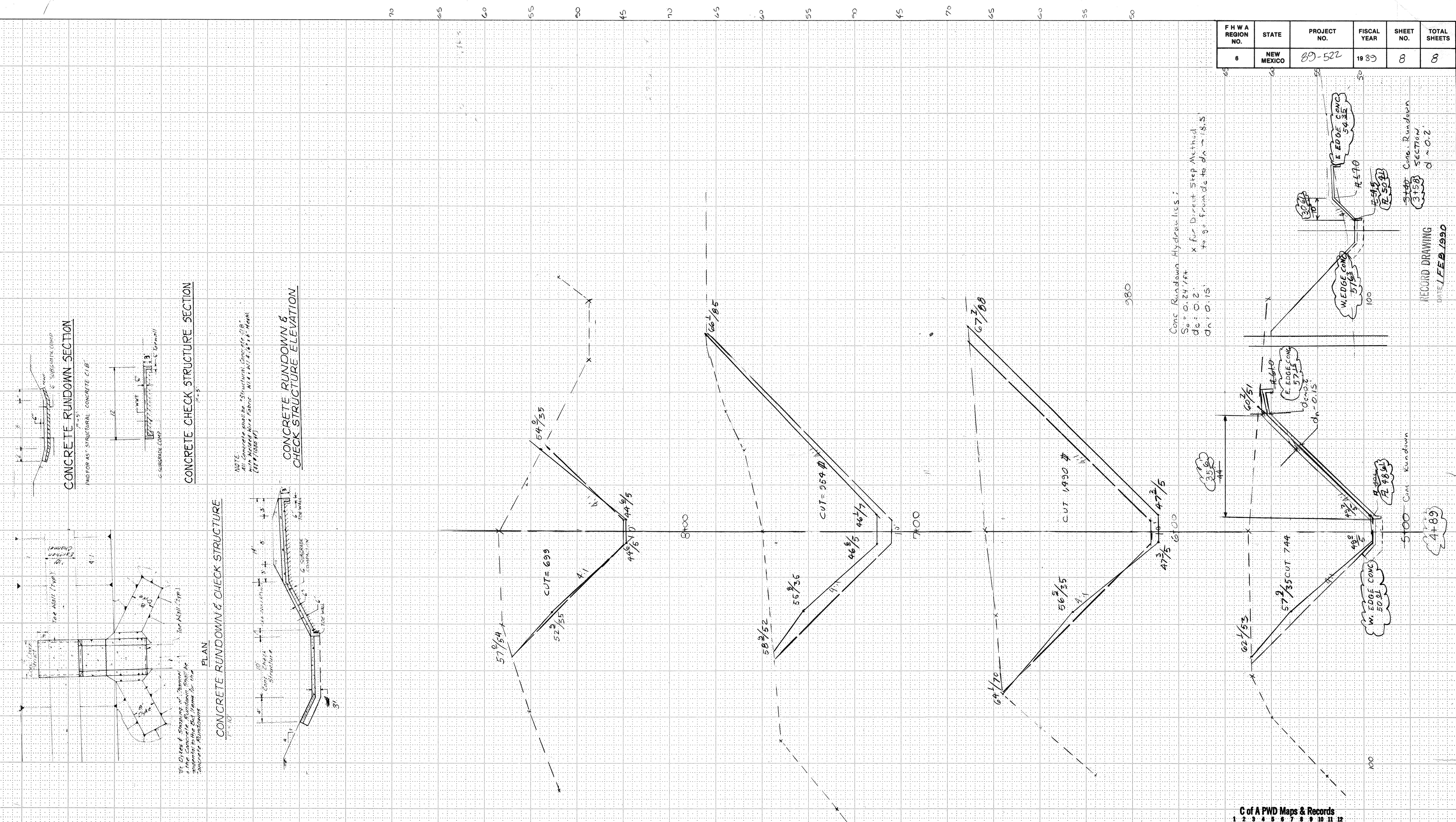


FHWA REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO	89-522	1989	7	8

FINAL SURVEY	
NOTE BOOK	SURVEYED
NO.	PLOTTED
	TEMPLATE
	AREAS
	AREAS CHECKED
BY	DATE

ORIGINAL SURVEY	
NOTE BOOK	SURVEYED
NO.	PLOTTED
	TEMPLATE
	AREAS
	AREAS CHECKED
BY	DATE

FHWA REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO	89-522	1989	8	8



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NOTE BOOK / NO.			

ORIGINAL SURVEY	SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED	BY	DATE
NOTE BOOK / NO.			

FRED:
PROJECT CANCELLED &
SUPERCEDED BY NEWLY
SUBMITTED PROJECT
INCLUDING THIS PROJ. +
PROPERTY TO NORTH. (CLIFFORD
INDUSTRIAL PARK.)
... 3628.
TORRI M.