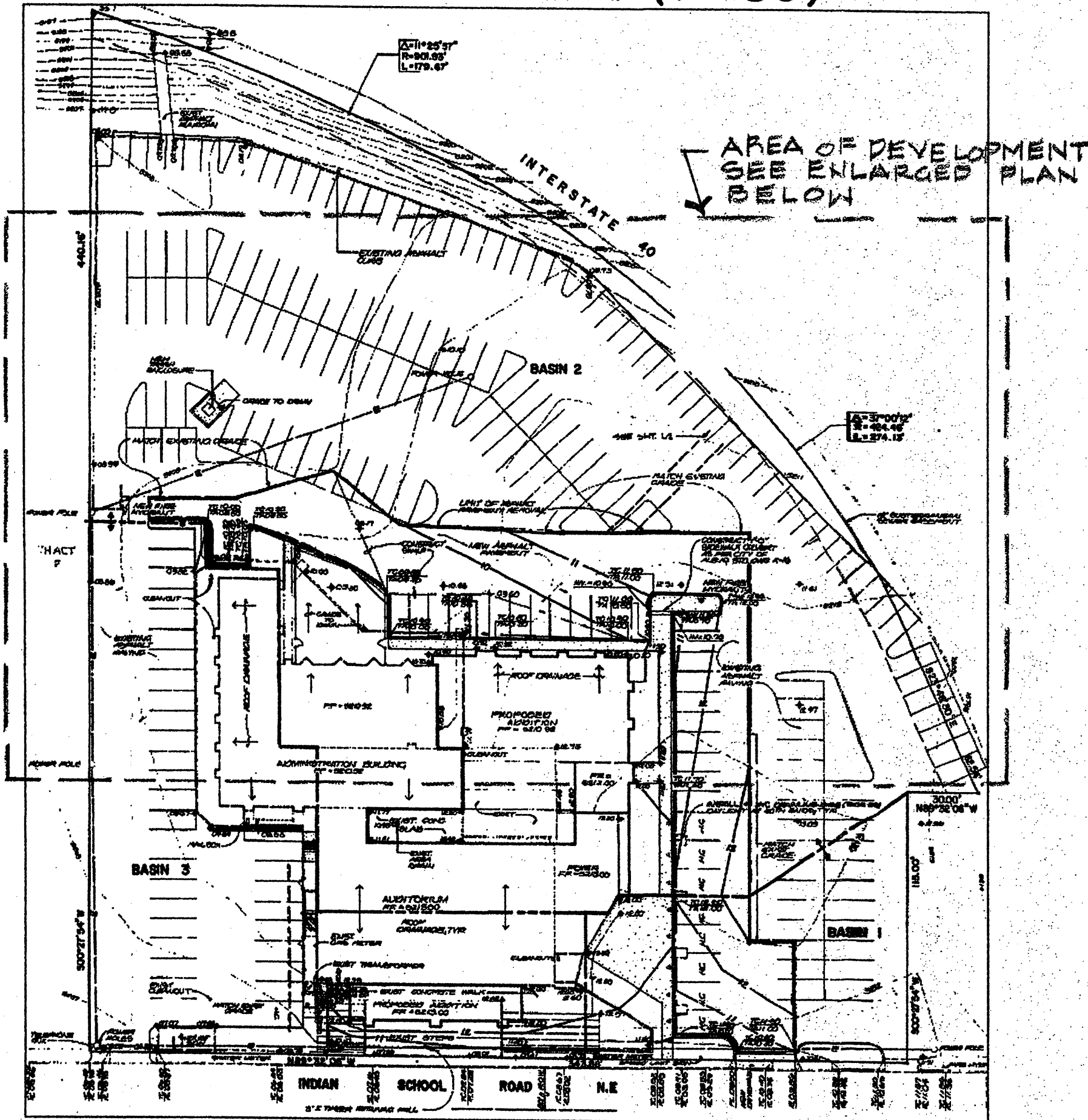
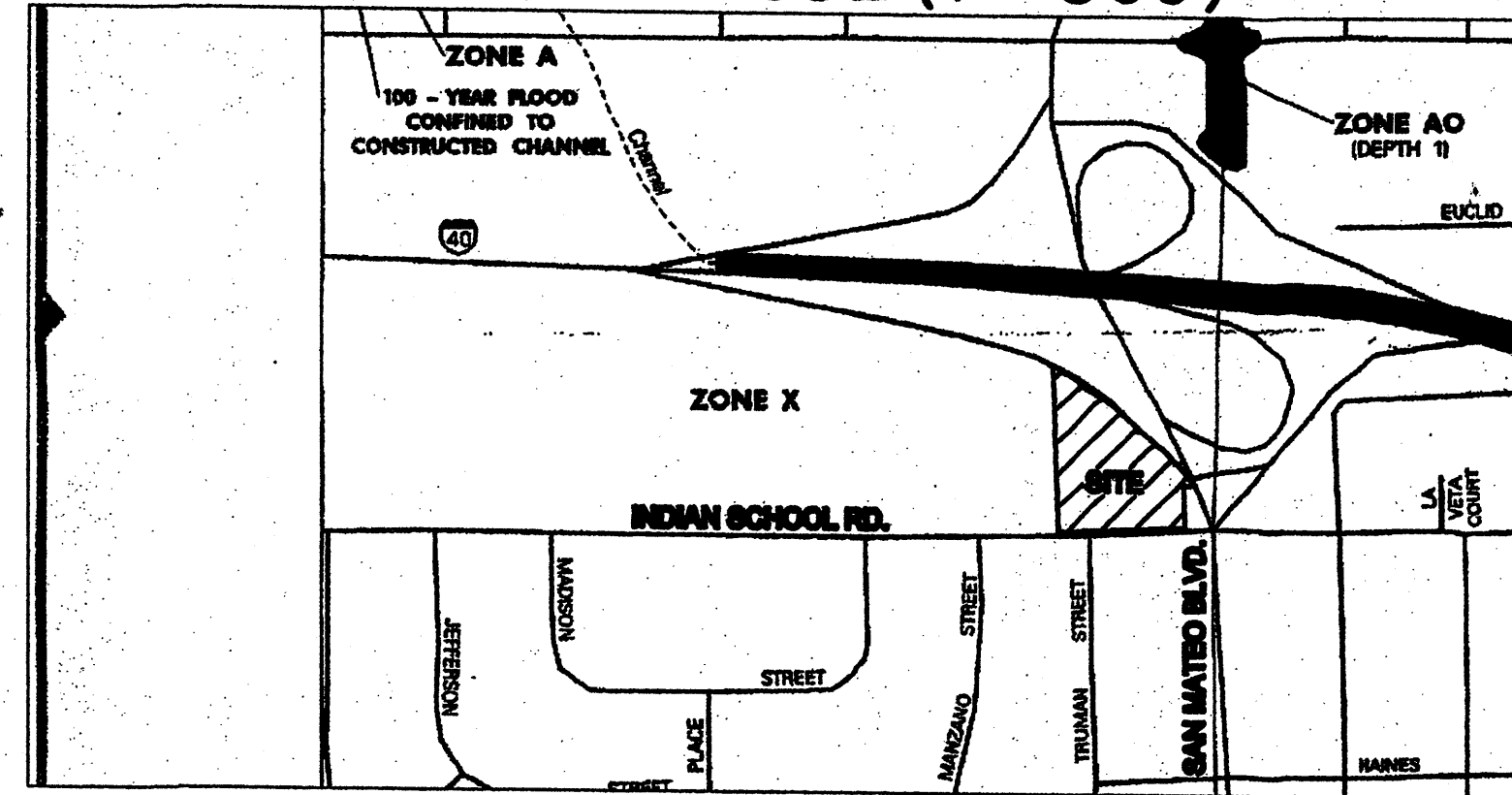


DRAINAGE BASIN MAP (1"=50')



FIRM PANEL 352 (1"=500')



100-YEAR HYDROLOGIC CALCULATIONS

BASIN #	AREA (acre)	LAND TREATMENT (%)				WEIGHTED E (in)	V (6-hr) (cu-ft)	V (6-hr) (cu-ft)	V (10 day) (cu-ft)	V (10 day) (cu-ft)	Q (cfs)
		A	B	C	D						
EXISTING CONDITIONS											
1	0.344	0.00	3.00	3.00	83.00	2.04	0.04	1,807	0.07	3,127	1.11
2	1.918	0.00	2.00	2.00	96.00	2.07	0.33	14,443	0.88	25,142	8.97
3	0.628	0.00	3.00	3.00	93.00	2.04	0.11	4,897	0.18	7,936	2.83
TOTAL	2.783						0.48	20,837	0.83	36,204	12.81
PROPOSED CONDITIONS											
1	0.344	0.00	3.00	3.00	83.00	2.04	0.04	1,807	0.07	3,127	1.11
2	1.918	0.00	3.00	3.00	94.00	2.05	0.33	14,281	0.87	24,797	8.79
3	0.628	0.00	3.00	3.00	93.00	2.04	0.11	4,897	0.18	7,936	2.83
TOTAL	2.783						0.47	20,876	0.82	36,619	12.73
EXCESS PRECIP.	0.83	0.78	1.13	2.12	E (in)						
PEAK DISCHARGE	1.88	2.28	3.14	4.7	Qn (cfs)						

WEIGHTED E (in) = (Ea)(%A) + (Eb)(%B) + (Ec)(%C) + (Ed)(%D)
V_{max} (acre-ft) = (WEIGHTED E)(AREA)*12
V_{6hr} (acre-ft) = V_{max} * (A₆)(P_{6hr} - P_{max})*12
Q (cfs) = (Qn)(A₆) + (Qn)(A₁₀) + (Qn)(A₁₀) + (Qn)(A₁₀)

ZONE = 2
P_{max} (in.) = 2.35
P_{6hr} (in.) = 2.75
P_{10hr} (in.) = 3.85

DRAINAGE REPORT

LOCATION & DESCRIPTION

THE PROPOSED SITE IS 2.783 ACRES LOCATED AT THE SOUTHWEST CORNER OF SAN MATEO BOULEVARD AND I-40, AS SHOWN ON THIS SHEET. IT IS CURRENTLY DEVELOPED WITH A CHURCH FACILITY. THE PROPOSED DEVELOPMENT IS TO REMOVE A PORTION OF THE EXISTING ASPHALT PARKING LOT AND CONSTRUCT A 7713 SQUARE FOOT GYMNASIUM, ADDITIONAL LANDSCAPING, AND MINOR REVISIONS TO THE PARKING LOT LAYOUT.

FLOODPLAIN STATUS

THIS PROJECT, AS SHOWN ON FEMA'S FLOOD INSURANCE RATE MAP 3500100352 D, DATED SEPTEMBER 20, 1996 IS NOT WITHIN ANY DESIGNATED 100-YEAR FLOODPLAIN. AN EXHIBIT FROM THIS FIRM PANEL WITH THE SITE DESIGNATED ON IT IS SHOWN ON THIS SHEET.

METHODOLOGY

THE HYDROLOGY FOR THIS PROJECT WAS ANALYZED USING THE QUICK CALCULATIONS OF THE JUNE 1997 RELEASE OF THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, SECTION 22.2.

PRECIPITATION

THE 100-YR 6-HR DURATION STORM WAS USED AS THE DESIGN STORM FOR THIS ANALYSIS. THIS SITE IS WITHIN ZONE 2 AS IDENTIFIED IN THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, SECTION 22.2. TABLES WITHIN THIS SECTION WAS USED TO ESTABLISH THE 6-HOUR PRECIPITATION, EXCESS PRECIPITATION, AND PEAK DISCHARGE.

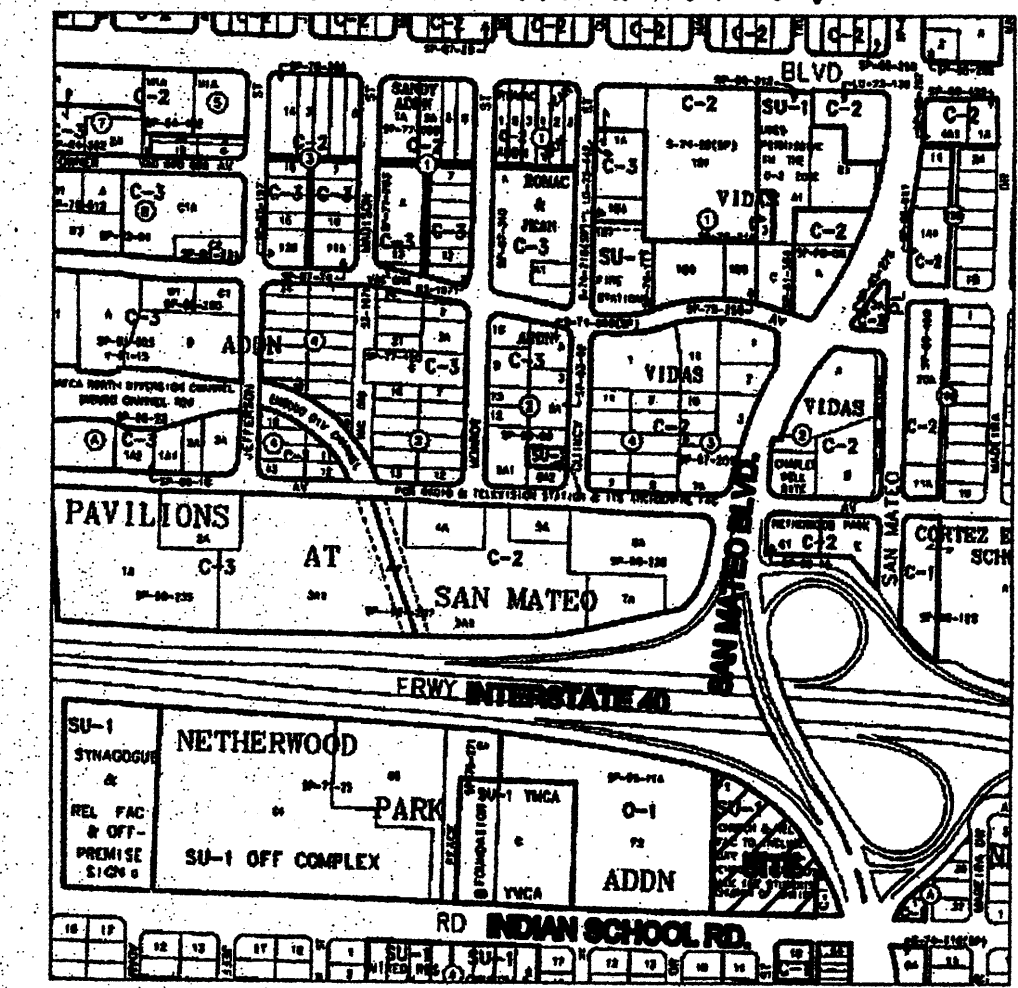
EXISTING DRAINAGE

THE SITE WAS DEVELOPED PRIOR TO 1986 WITH FREE DISCHARGE FROM THE SITE. IN DECEMBER 1986, "THE BURNS/PETERS GROUP" PREPARED A GRADING AND DRAINAGE PLAN FOR A CLASSROOM ADDITION ON THE NORTH SIDE OF THE EXISTING BUILDING. THE TOPOGRAPHIC AND BASIN MAP ON THIS SHEET WAS OBTAINED FROM THE 1986 DRAINAGE PLAN. BASINS 1 AND 3 HAVE FREE DISCHARGE TO INDIAN SCHOOL ROAD WHILE BASIN 2 DRAINS TO THE NORTHWEST CORNER OF THE SITE AND DISCHARGES INTO THE I-40 RIGHT-OF-WAY. BASINS 1 AND 3 WILL NOT BE AFFECTED BY THIS DEVELOPMENT. ALL OF THE CONSTRUCTION PROPOSED HEREIN WILL BE CONTAINED WITHIN BASIN 2.

DEVELOPED CONDITION

THE PORTION OF THE SITE BEING DEVELOPED AT THIS TIME IS WITHIN THE EXISTING ASPHALT PARKING LOT. THIS DEVELOPMENT WILL INCLUDE A STRUCTURE DRAINING TO THE NORTH WHICH IS CONSISTENT WITH THE CURRENT PARKING LOT DRAINAGE. MINOR MODIFICATIONS TO A COUPLE OF THE EXISTING LANDSCAPE ISLANDS WITHIN THE PARKING LOT WILL BE MADE ALONG WITH SOME RESTRIPIPING IN ORDER TO ACCOMMODATE THE REQUIRED TRAFFIC CIRCULATION AROUND THE BUILDINGS. THERE WILL ALSO BE AN INCREASE OF APPROXIMATELY 3500 SQUARE FEET OF LANDSCAPED AREA AROUND THE NEW GYMNASIUM. THEREFORE, THE ACTUAL IMPERVIOUS AREA WILL DECREASE WITH THIS DEVELOPMENT. THE 100-YEAR HYDROLOGIC CALCULATIONS, SHOWN ON THIS SHEET, REFLECT THIS MINOR CHANGE BETWEEN THE EXISTING AND PROPOSED DEVELOPMENT. SINCE THE DEVELOPMENT ACTUALLY IMPROVES THE DOWNSTREAM CONDITION AND THE SITE IS ALREADY DEVELOPED WITH FREE DISCHARGE, NO ONSITE PONDING IS PROPOSED AND THE SITE WILL CONTINUE TO DRAIN IN ITS HISTORIC PATTERN. AS A RESULT, THIS SITE CAN BE DEVELOPED WITH THE PROPOSED IMPROVEMENTS WITHOUT ADVERSELY AFFECTING DOWNSTREAM PROPERTY.

VICINITY MAP H-17



LEGAL DESCRIPTION

TRACT "F-1" OF THE NETHERWOOD PARK ADDITION, FILED OCTOBER 1, 1975; VOLUME A5; FOLIO 163.

ACS BENCHMARK

ACS MONUMENT "1-117", BEING AN ACS MONUMENT, WITH AN ELEVATION OF 5219.342.

SURVEY NOTES

TOPOGRAPHIC SURVEY PREPARED BY OTHERS AND PROVIDED BY THE OWNER. LIMITED FIELD OBSERVATION WAS USED TO CONFIRM THE GENERAL FLOW OF THE LAND. ITS ADEQUACY IS HEREBY DISCLAIMED AS IT RELATES TO THIS DRAWING.

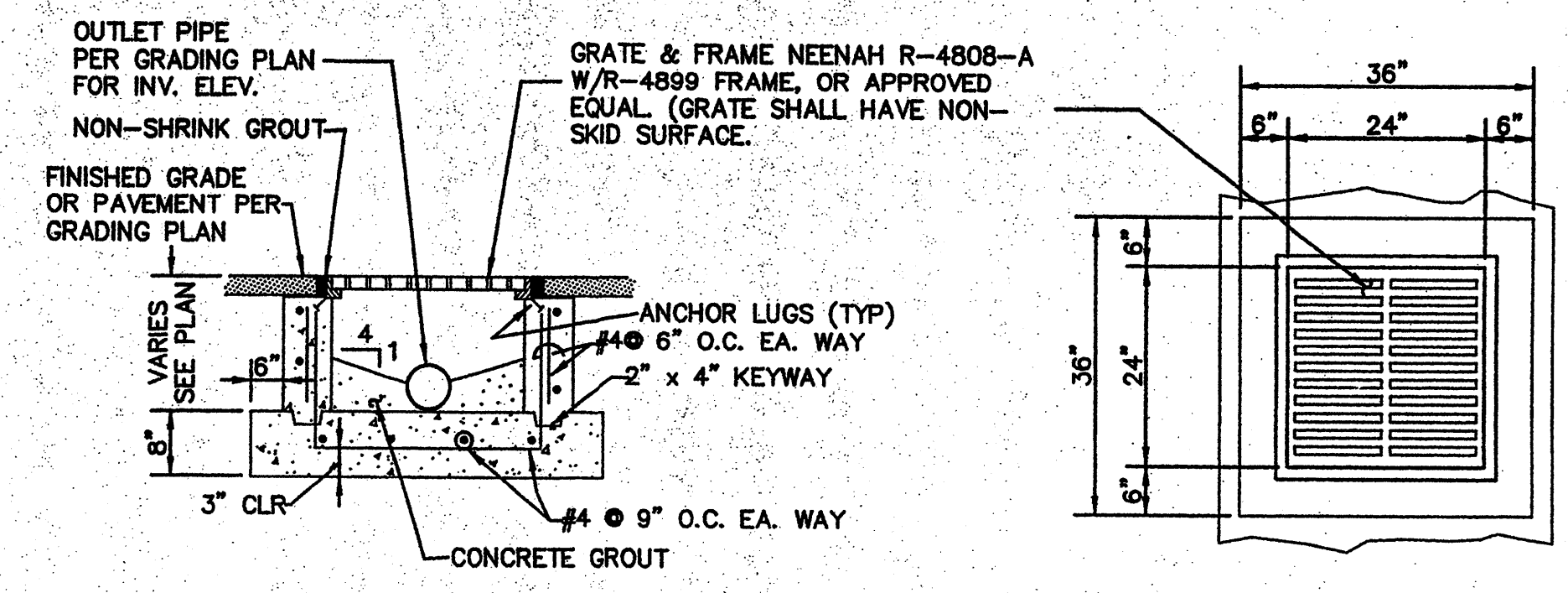
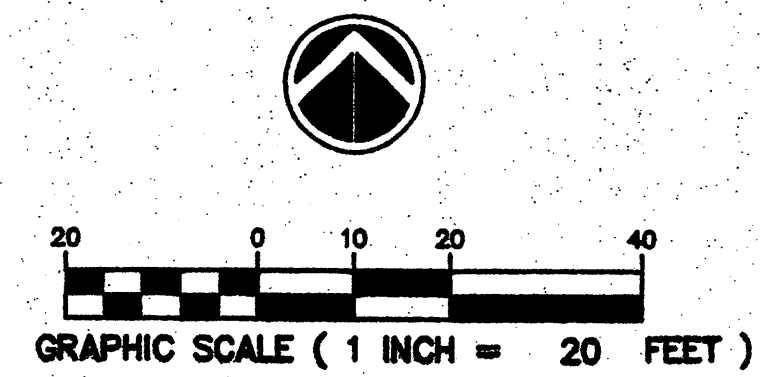
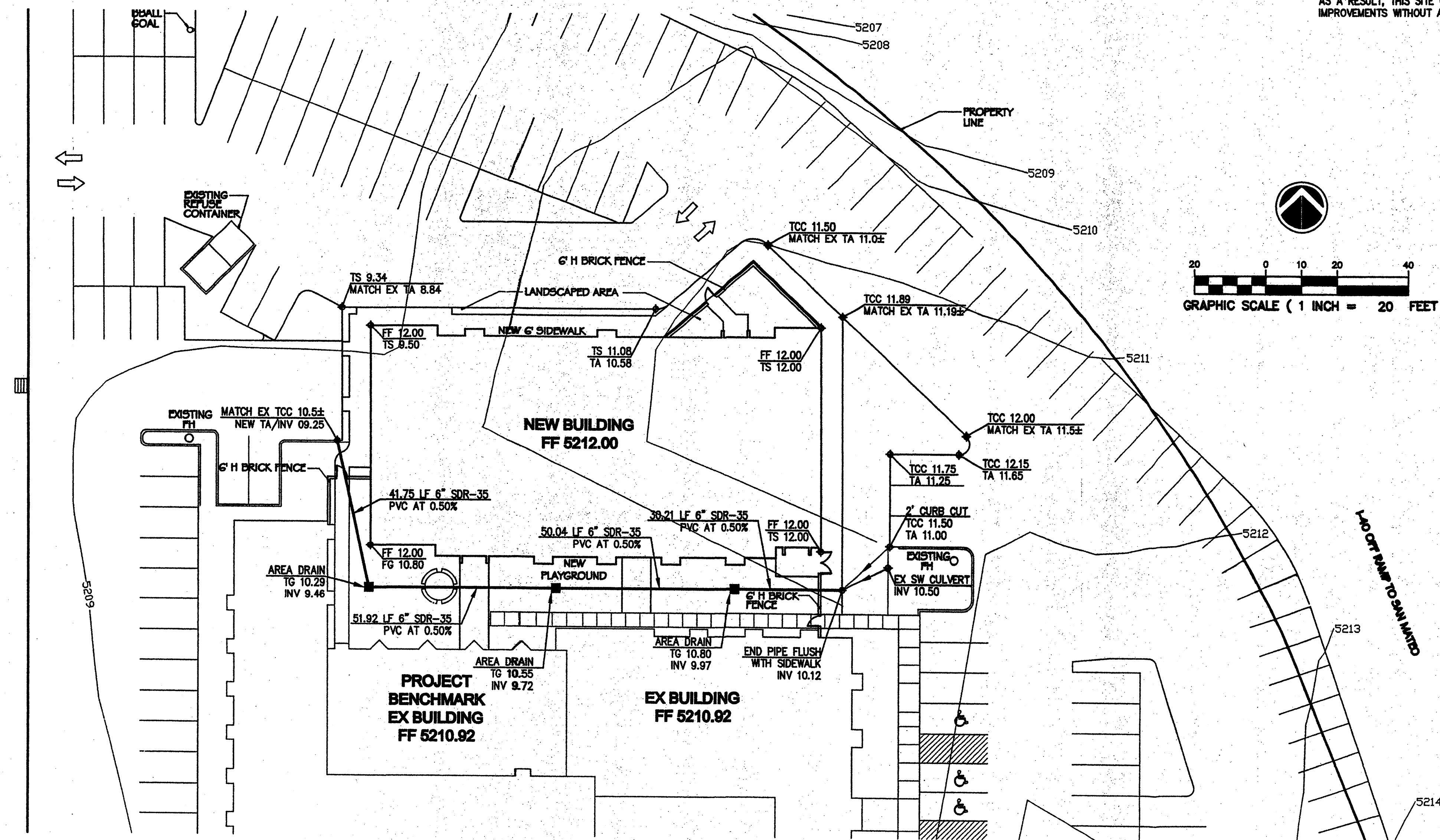
THIS IS NOT A BOUNDARY SURVEY AND SHOULD NOT BE USED BY THE OWNER AS SUCH.

LEGEND

- 5212 — EX CONTOUR
- — — — — PROPERTY LINE
- — — — — EX BUILDING
- — — — — EX SIDEWALK/CURB
- — — — — PROPOSED CURB/SIDEWALK
- — — — — PROPOSED BUILDING
- — — — — PROPOSED STORM DRAIN
- — — — — PROPOSED AREA DRAIN
- FF 12.00 PROPOSED SPOT ELEVATION
- TS 12.00 PROPOSED SWALE AND FLOW DIRECTION

ABBREVIATIONS

- FF FINISHED FLOOR
- TCC TOP OF CONCRETE CURB
- TA TOP OF ASPHALT
- TG TOP OF GRATE
- TS TOP OF SIDEWALK



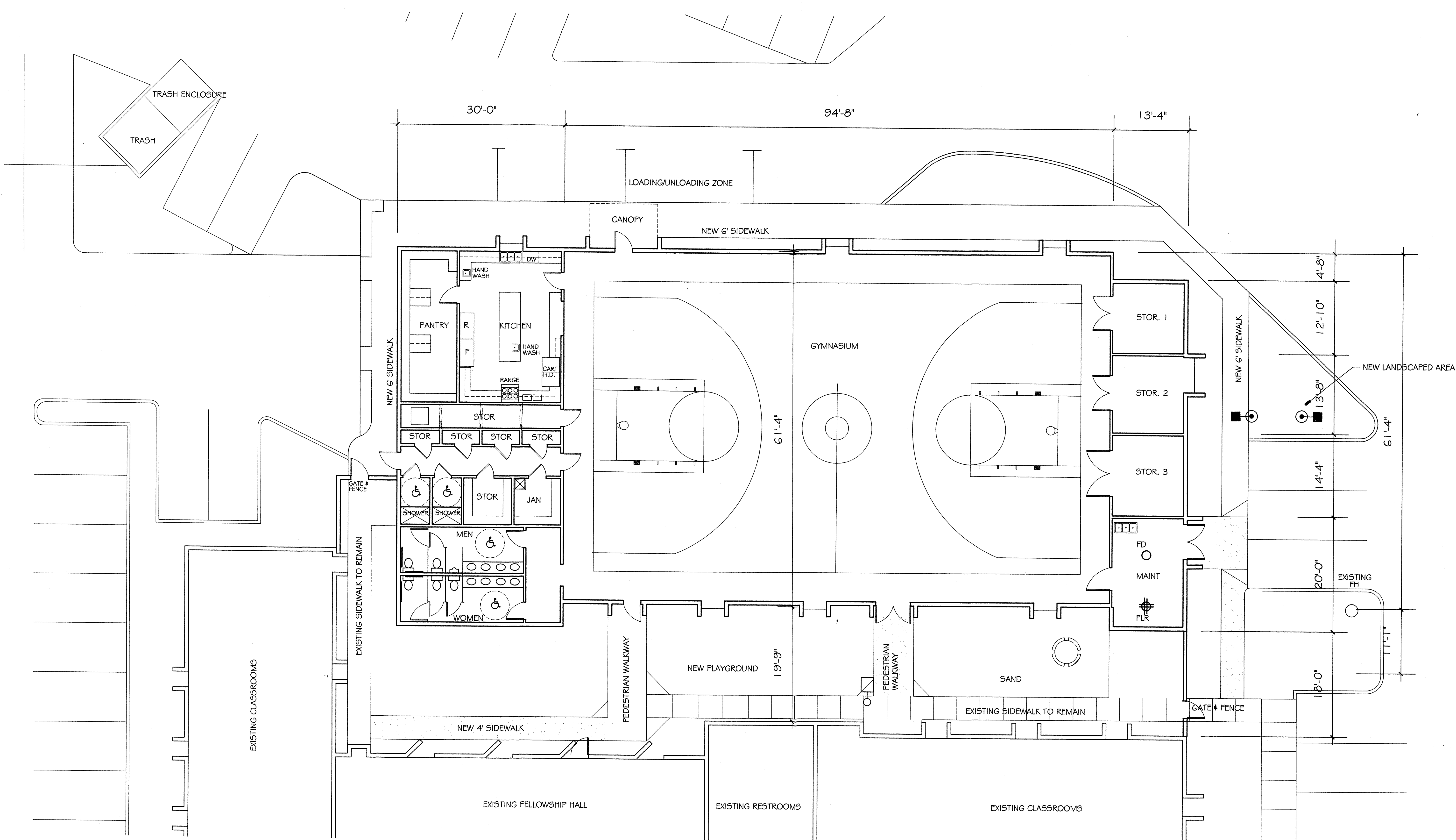
1 AREA DRAIN
C2 N. T. S.

NETHERWOOD PARK CHURCH OF CHRIST
5101 INDIAN SCHOOL RD
ALBUQUERQUE, NEW MEXICO

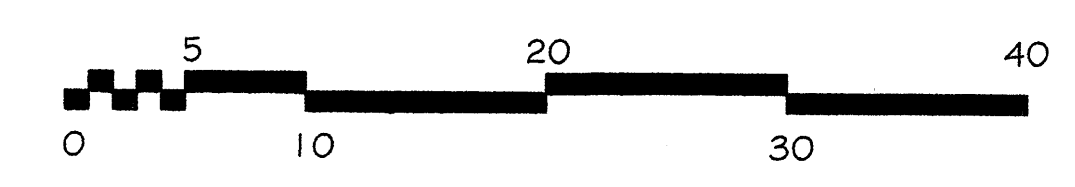
DATE:
5/28/02
6/17/02

SHEET NO.

C-2



FLOOR PLAN
 SCALE: 1/8" = 1'-0"



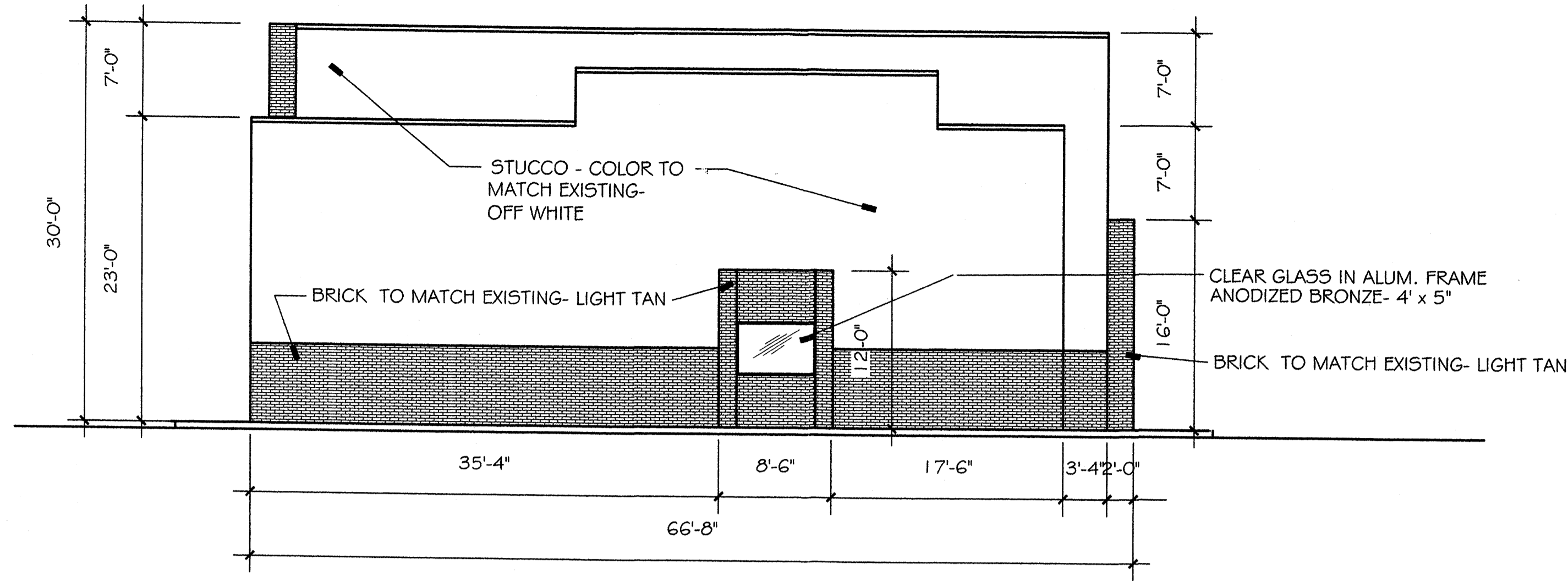
REVISED 4/1/03

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 Albuquerque, NM 87110
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 100 Cook Street
 Albuquerque, NM 87101
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 jackharris@jha.com

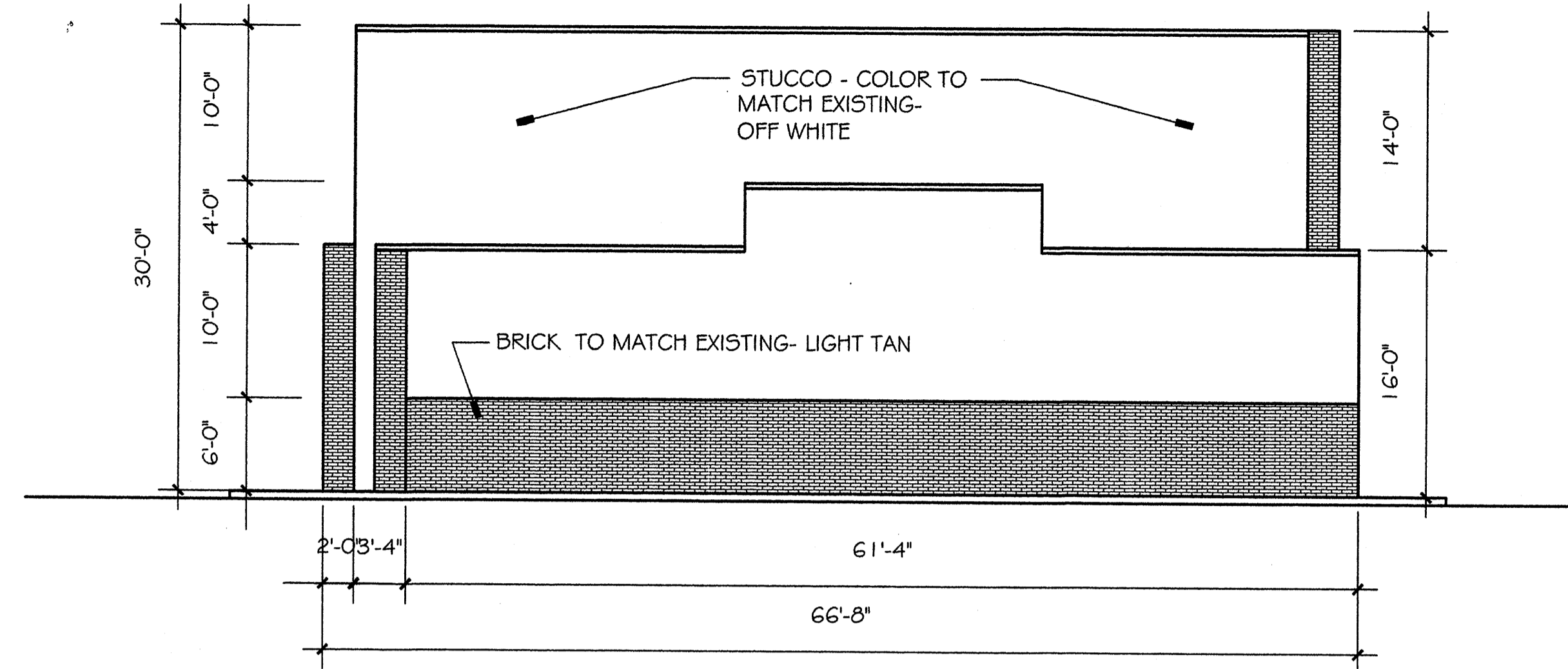
NETHERWOOD PARK CHURCH OF CHRIST
5101 INDIAN SCHOOL RD. NE
ALBUQUERQUE, NEW MEXICO

DATE:
 2/17/03
 4/1/03

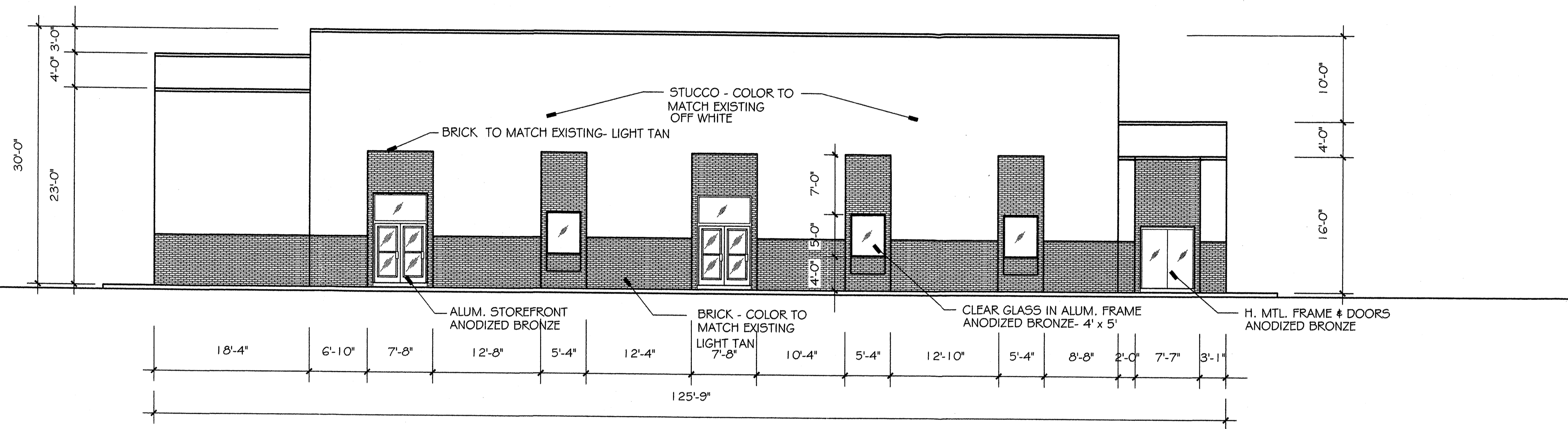
SHEET NO.
A-1



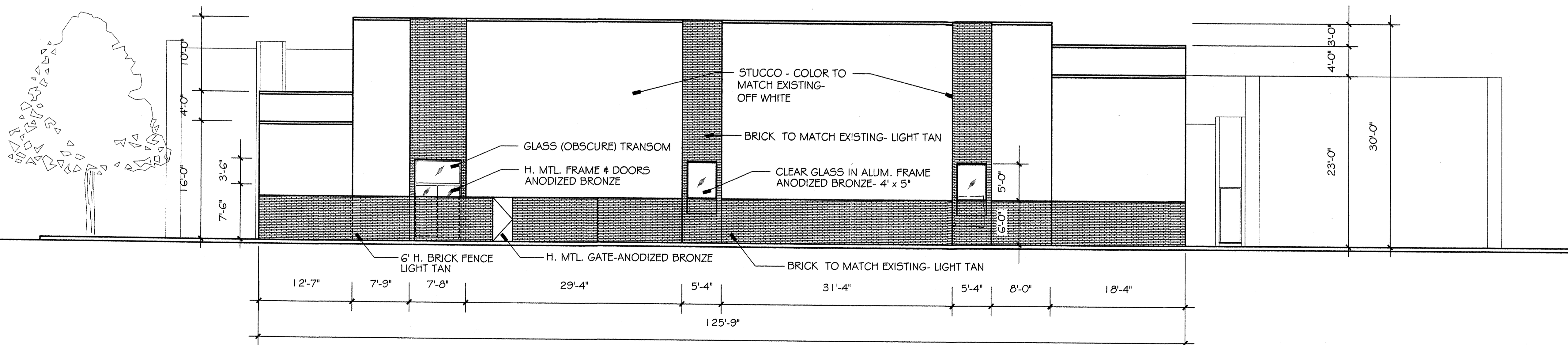
1 WEST ELEVATION
A-2
SCALE: 1/8" = 1'-0"



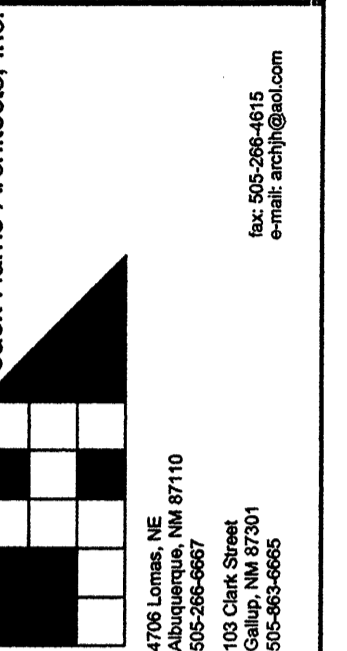
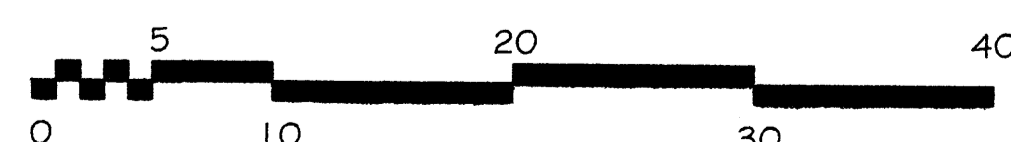
2 EAST ELEVATION
A-2
SCALE: 1/8" = 1'-0"



3 SOUTH ELEVATION
A-2
SCALE: 1/8" = 1'-0"



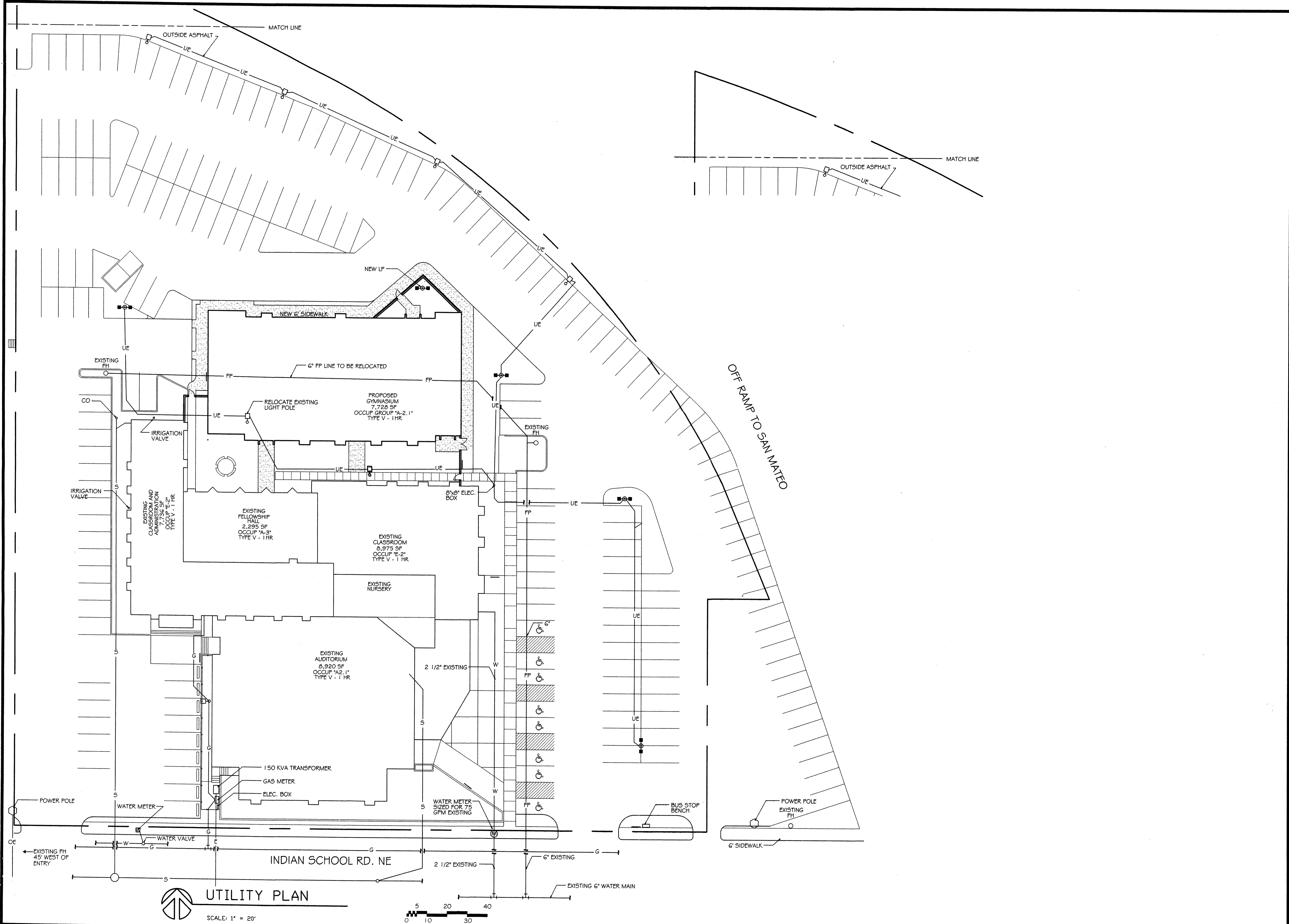
4 NORTH ELEVATION
A-2
SCALE: 1/8" = 1'-0"



NETHERWOOD PARK CHURCH OF CHRIST
5101 INDIAN SCHOOL RD. NE
ALBUQUERQUE, NEW MEXICO

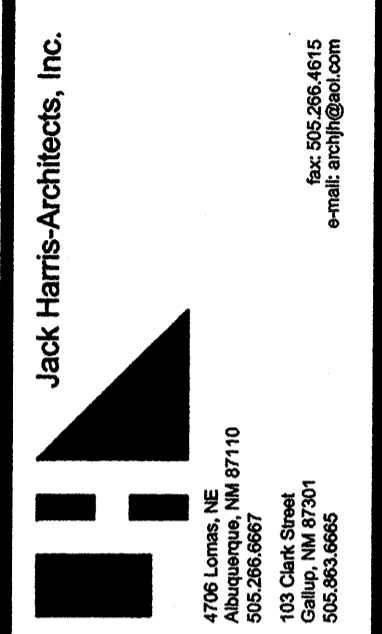
DATE:
6/25/2002
7/2/2002
5/29/2003

SHEET NO.
A-2



UTILITY PLAN

SCALE: 1" = 20'



NETHERWOOD PARK CHURCH OF CHRIST
 5101 INDIAN SCHOOL RD
 ALBUQUERQUE, NEW MEXICO

DATE:
 5/28/02
 6/17/02
 6/25/02

SHEET NO.

U-1