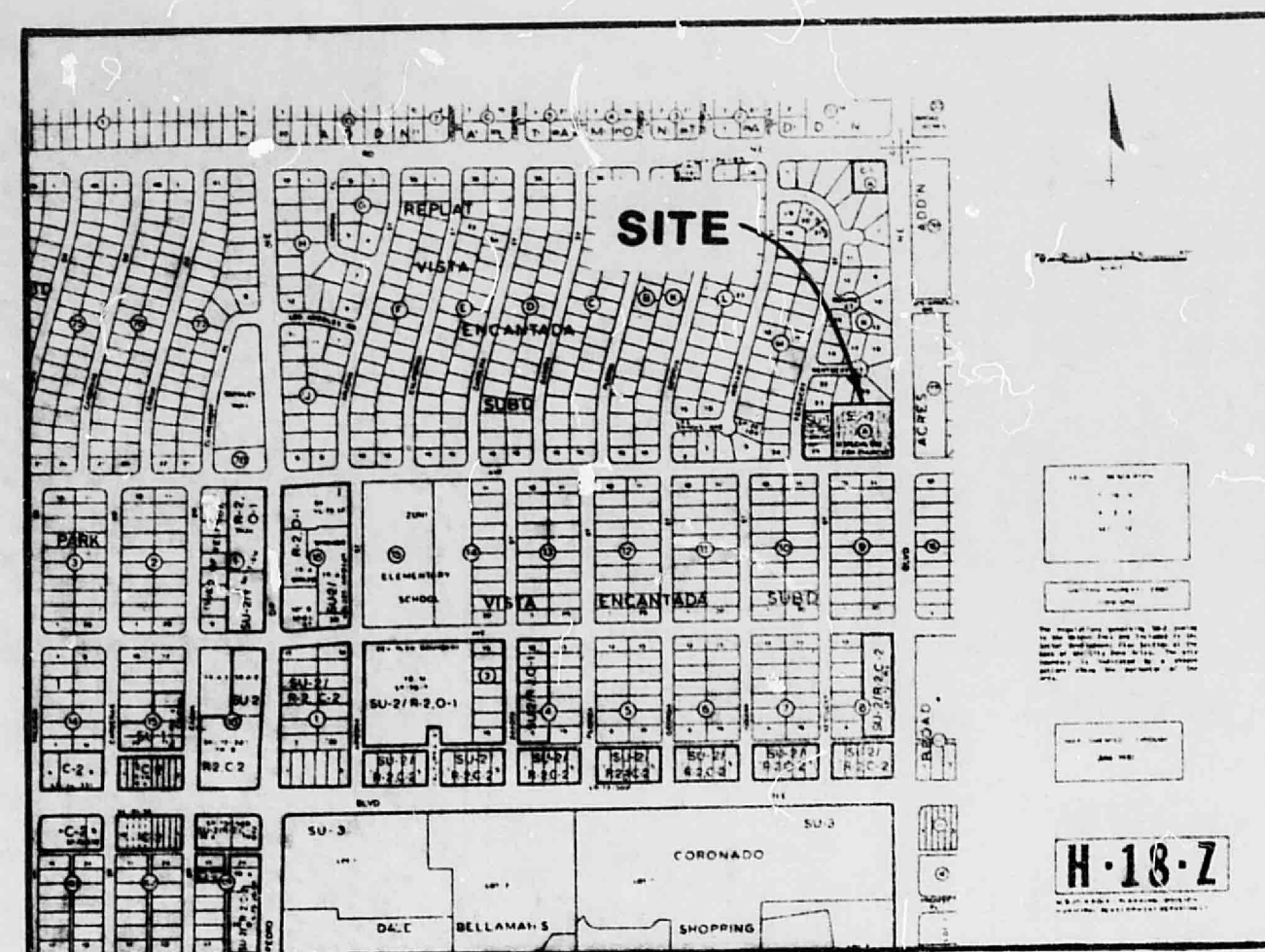
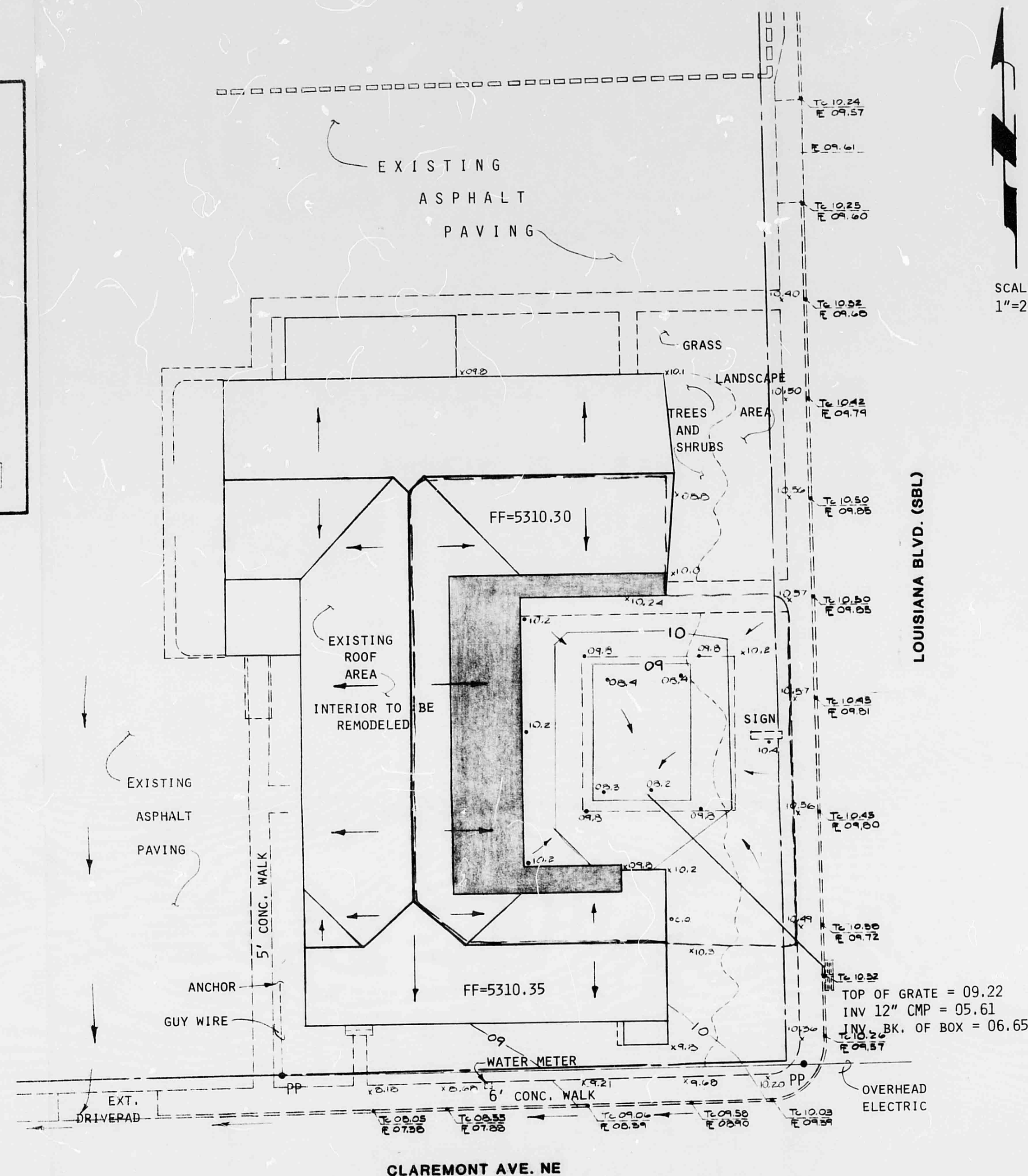


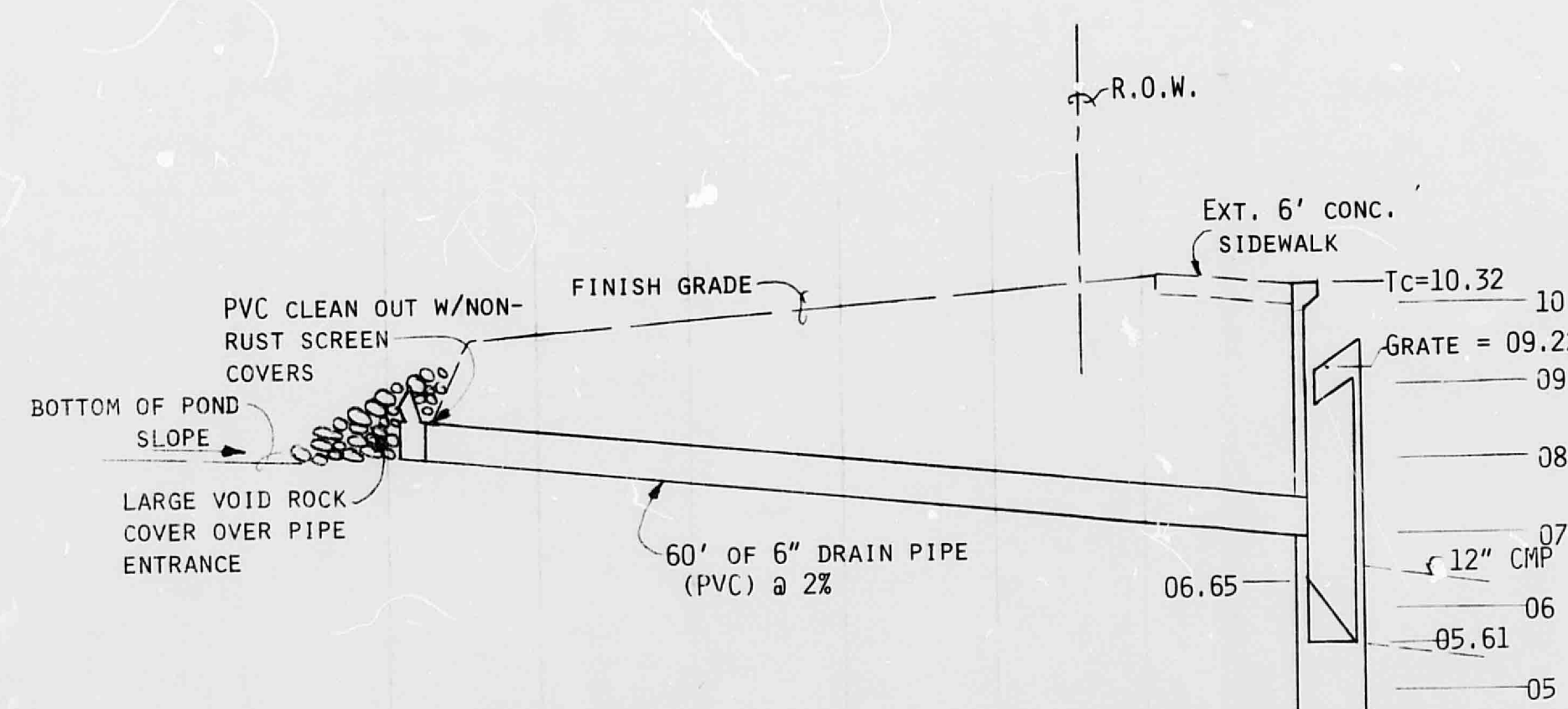


VICINITY MAP

- LEGEND**
- 10' EXISTING CONTOUR
 - EXISTING TOP OF CURB EL.
 - EXISTING FLOWLINE EL.
 - EXISTING STD. C&G
 - EXISTING BLOCK WALL
 - PP EXT. POWER POLE W/ OVERHEAD ELECTRIC
 - EXISTING SPOT ELEVATION
 - FLOW DIRECTIONAL ARROW
 - LIMIT OF PROPOSED DRAINAGE BASIN
 - PROPERTY LINE
 - GENERAL POND ENVELOPE
 - PROPOSED SPOT ELEVATION
 - EXT. CLEAN OUT



CLAREMONT AVE. NE



PROFILE ALONG 6" DRAIN LINE

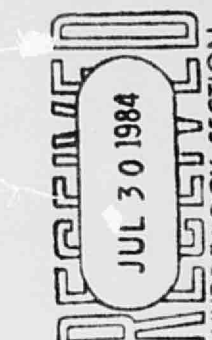
1"=10' HORIZONTAL
1"= 2' VERTICAL

DRAINAGE PLAN

FOR THE

SANDIA NAZARENE CHURCH

AUGUST, 1984



NOTES

- BENCHMARK: CITY OF ALBUQUERQUE CONTROL 5-H18 LOCATED AT THE INTERSECTION OF CLAREMONT AND LOUISIANA IN THE SW QUADRANT. 'X' CHISELED ON FIRE HYDRANT. ELEVATION = 5311.44. SINCE THIS BENCHMARK IS CLOSE AN INTERVISABLE TO THE PROPOSED CONSTRUCTION, IT SHALL BE USED AS THE PROJECT BM.
- LEGAL: TRACT A, BLOCK N, REPLAT OF VISTA ENCANTADA SUBDIVISION
- SITE IS NOT PART OF ANY FLOODPLAIN
- SURVEYOR: FORSTBAUER SURVEYING CO. 508 CHAMA NE (268-0248) JULY 9, 1984
- SOILS: SCS BERNALILLO COUNTY SURVEY MAP INDICATES T9B (TIJERAS) WITH A CORRESPONDING HYDROLOGICAL SOIL CLASSIFICATION OF 'B'
- SITE IS FULLY DEVELOPED WITH MATURE LANDSCAPING.
- AN EROSION CONTROL PLAN IS NOT NECESSARY FOR THIS SITE DUE TO ITS MINOR CONSTRUCTION AREA.

THIS PLAN WAS PREPARED BY OR UNDER THE SUPERVISION OF
FRED C. ARFMAN, P.E. No. 7322



7-30-84
DATE

DRAINAGE CALCULATIONS & COMMENTS

OFFSITE DRAINAGE: THIS SITE DOES NOT AND WILL NOT ACCEPT OFFSITE STORM WATER. THE DRAINAGE ARE FOR WHICH THIS PLAN ADDRESSES BORDERS ON THE WESTERLY RIGHT-OF-WAY LINE OF LOUISIANA BLVD. NE. A PUBLIC STORM DRAIN IS EXISTING IN LOUISIANA BLVD. W/A DOUBLE 'C' CATCH BASIN AS SHOWN.

ONSITE DRAINAGE

EXISTING: PRESENTLY THE STORM WATERS ARE PERMITTED TO EXIT THE ROOF AREA AND FALL TO THE GRAVEL LANDSCAPED AREA. BY INSPECTION OF THE EXISTING TOPOGRAPHY STORM WATERS APPEAR TO POND AGAINST THE BUILDING ALONG THE EAST FACE. THIS IS AN UNDESIRABLE CONDITION AND SHALL BE IMPROVED UPON.

ROOF AND CONC. WALK AREA	4,200 S.F.
LANDSCAPED AREA	5,735 S.F.
TOTAL DRAINAGE BASIN	9,935 S.F.

V = CDA WHERE C=0.58
D=2.32" = 0.193'
= (0.58)(0.193)(9,935)
= 1,114 CU. FT.

PROPOSED:

EXISTING ROOF AREA	3010 S.F.
ADDITIONAL ROOF AREA	1930
	4940 S.F.
LANDSCAPED AREA	4995
	9935 S.F.

COMPOSITE 'C' VALUE
IMPERVIOUS (0.95) = 0.47
PERVIOUS (0.30) = 0.15
0.62

REQUIRED PONDING VOLUME:

V = CDA
= (0.62)(0.193)(9935)
= 1,189 CU. FT.

THIS IS A NET INCREASE OF ONLY 75 CU. FT. BUT ALL OF THE VOLUME GENERATED BY A 100 YR. EVENT MUST BE DETAINED WITHIN A POND.

POND REQUIREMENTS

- POND VOLUME = 1,190 CU. FT.
- DEPTH OF POND (MAX) = 1.5 FT.
- HIGH WATER SURFACE AREA WHEN POND IS CONSTRUCTED W/2:1 SIDE SLOPES = 971 SF.
- MAX. POND LIMIT SHALL BE A MINIMUM OF 15 FT. AWAY FROM THE BLDG'S FOUNDATION
- DISCHARGE PIPE : 6" DIA.
LENGTH : 60'
SLOPE : 2%
ENTR. INV. : 08.2
INV. @ C.B. : 07.0
- SPECIAL ORDER NO. 19 DESIGN SHALL BE PROVIDED FOR THE PIPE CONNECTION DETAIL TO THE PUBLIC CATCH BASIN IN LOUISIANA BLVD.
- POND MAY BE LINED OR UNLINED AND INCORPORATED INTO THE AREA'S LANDSCAPING

Date
Designed
Checked

Isaacson & Arfman, P.A.
CONSULTING ENGINEERING ASSOCIATES
Albuquerque, New Mexico

DRAINAGE PLAN

Sandia Nazarene Church
2801 Louisiana Blvd. NE

Sheet
of

H18/D33