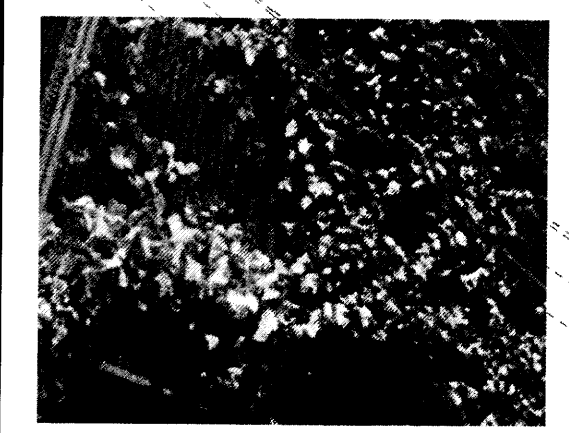
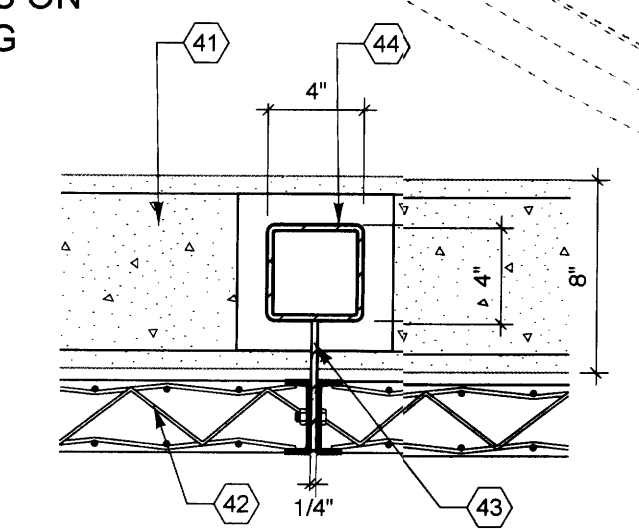


FENCE SECTION  
3/4" = 1'-0"

MUSEUM OF  
NATURAL  
HISTORY  
AND SCIENCE

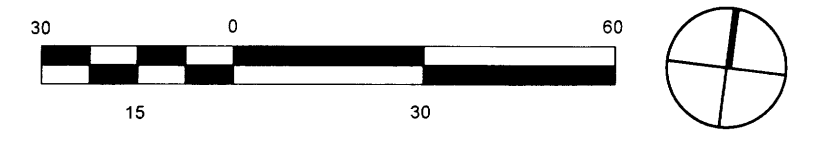


WOODBINE VINES ON  
LATTICE FENCING



FENCE DETAIL  
1-1/2" = 1'-0"

TIGUEX  
PARK



1 SITE PLAN SHOWING 3 PHASES OF PROPOSED ADDITIONS  
1" = 30'

ANNEX  
MUSEUM OF  
NATURAL  
HISTORY  
AND SCIENCE

EXISTING  
EXPLORA  
SCIENCE CENTER  
2-STORY  
38,887 SF

PHASE 3  
UPPER PROGRAM DECK  
SHADE CANOPY  
2,900 SF

PHASE 2  
1-STORY "BACK-OF-  
HOUSE" ADDITION  
2,400 SF

PHASE 3  
1-STORY STORAGE  
BUILDING  
3,000 SF

PHASE 1  
2-STORY "BACK-OF-  
HOUSE" ADDITION  
8,600 SF

PHASE 1  
FENCED NATURE  
PROGRAM AREA  
5,200 SF

PROJECT NUMBER: 1001466  
Application Number: 11EPC-40069

This plan is consistent with the specific Site Development Plan approved by the Environmental Planning Commission (EPC), dated October 16, 2008 and the Findings and Conditions in the Official Notification of Decision are satisfied.

Is an Infrastructure List required? ( ) Yes ( X ) No If yes, then a set of approved DRB plans with a work order is required for any construction within the Public Right-of-Way or for construction of public improvements.

DRB SITE DEVELOPMENT SIGNOFF APPROVAL:

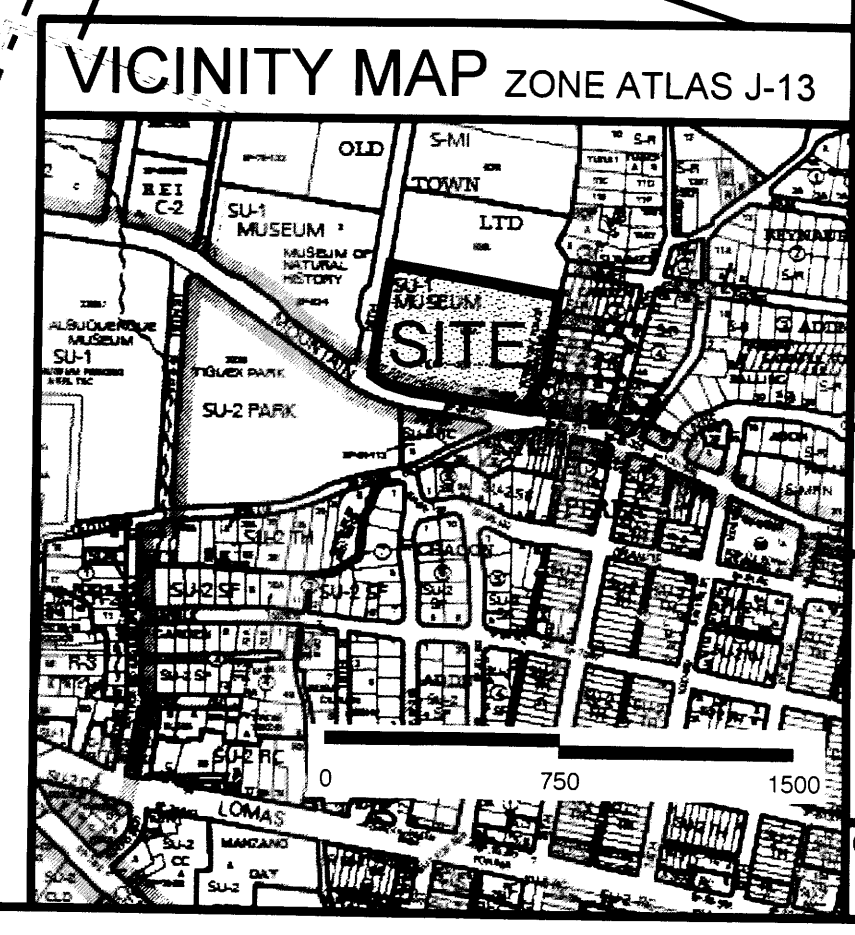
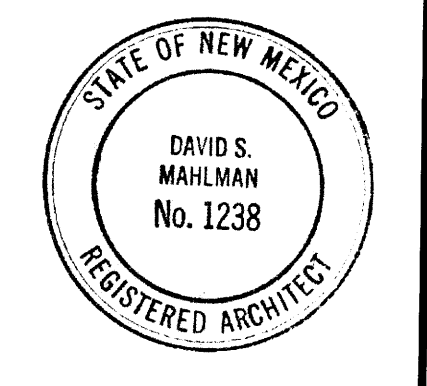
TRAFFIC ENGINEERING, TRANSPORTATION DIVISION	DATE
ABCWUA	DATE
PARKS AND RECREATION DEPARTMENT	DATE
CITY ENGINEER	DATE
ENVIRONMENTAL HEALTH DEPARTMENT (conditional)	DATE
SOLID WASTE MANAGEMENT	DATE
DRB CHAIRPERSON, PLANNING DEPARTMENT	DATE

GENERAL NOTES

- SITE CIRCULATION & PARKING**
- NO CHANGES PROPOSED FROM THE ORIGINAL APPROVED SITE DEVELOPMENT PLAN (EPC NO. Z-98-86 / DRB NO. 98366)
  - EXISTING VEHICLE PARKING COUNT RECAP: TOTAL 168
    - ON-SITE: 105 SPACES, INCLUDING 8 HC SPACES (1 VAN ACCESSIBLE)
    - OFF-SITE: 43 SPACES ("MOU" IN PLACE WITH NATURAL HISTORY MUSEUM)
    - STAFF PARKING 20 SPACES
  - EXISTING BICYCLE PARKING: 34 SPACES TOTAL
    - 10 BIKE BANK
    - 24 "U" RACK
- BUILDING FINISHES**
- THE DESIGN INTENTION IS TO EXTEND EXISTING ARCHITECTURAL LANGUAGE.
  - EXTERIOR BUILDING FINISHES AND COLORS TO MATCH SIMILAR EXISTING BUILDING FINISHES.

KEYED NOTES

- PROPERTY LINE
- BUILDING SETBACK
- EXISTING POWER LINE
- EASEMENTS:
  - 4A: 10' P.N.M. EASEMENT GRANTED BY DOCUMENT FILED 06-25-1998 BOOK MISC. 107, PAGES 297-300, DOC. #98293
  - 4B: 5' P.N.M. AND M.S.T. EASEMENT GRANTED BY DOCUMENT FILED 10-30-1984 BOOK 169A, PAGE 552, DOC. #94 83163
  - 4C: PROPOSED 3' PUBLIC ROADWAY EASEMENT PER OFFICIAL NOTICE OF DECISION FILE Z-98-86, DATED 07-24-1998.
- EXISTING FIRE HYDRANT
- EXISTING SIDEWALK CULVERT
- EXISTING GAS METER
- EXISTING ELEC. SWITCHGEAR TRANSFORMER & EMERGENCY GENERATOR
- EXISTING LOADING DOCK WITH NEW CONCRETE SERVICE RAMP AND CONCRETE PAD
- NEW TINTED CONCRETE PAVING, 4" THICK TYP. WITH SCORED CONTROL JTS. AT 5'-0" O.C. E.W. TO MATCH EXISTING WALKS.
- NEW TINTED CONCRETE STEPS WITH HANDRAILS. DETAIL TO MATCH EXISTING SITE STEPS.
- NEW HM GATES TO MATCH EXISTING GATES.
- STEEL WIRE MESH LATTICE PANEL FENCE ON CONC. RETAINING WALL - 7'-10" HIGH WITH WOODBINE VINE PLANTINGS. SEE DETAILS THIS SHEET.
- NATURE AREA EXISTING STORM WATER DETENTION AREA TO BE FENCED AND AUGMENTED WITH NEW PATH AND PLANTINGS.
- EXISTING BICYCLE PARKING: 36 SPACES.
- EXISTING BUS STOP
- NEW DUMPSTER LOCATION WITH CONCRETE PAD AND BOLLARDS PER COA STANDARD.



CITY OF ALBUQUERQUE  
CAPITAL IMPLEMENTATION PROGRAM

PROJECT TITLE: EXPLORA SCIENCE CENTER & CHILDREN'S MUSEUM  
1701 MOUNTAIN ROAD NW

DRAWING TITLE: AMENDED EPC SITE DEVELOPMENT PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR. 12/20/2011	MO./DAY/YR. 7/13/2012
LAST DESIGN UPDATE		DATE	DATE

CITY PROJECT NO. - ZONE MAP NO. J-13-Z DWS DRB - # 1 SHEET OF 7



Plot Date: 10-21-2011  
 Plot Time: 11:49 am  
 File Name: 20035-DC.DWG

### DRAINAGE PLAN

**I. INTRODUCTION AND EXECUTIVE SUMMARY**

THIS PROJECT, LOCATED IN THE OLD TOWN AREA, REPRESENTS A MODIFICATION TO AN EXISTING SITE WITHIN AN INFILL AREA. THE PROPOSED IMPROVEMENTS CONSIST OF PHASED BUILDING ADDITIONS TO THE EXISTING MUSEUM LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF MOUNTAIN ROAD NW AND 18TH STREET NW. ALL PHASES OF THE PROPOSED IMPROVEMENTS LIE WITHIN BASIN B. THE PROPOSED DRAINAGE CONCEPT IS THE CONTINUED ROUTING OF DEVELOPED RUNOFF THROUGH AN EXISTING WATER HARVESTING AREA PRIOR TO FREE DISCHARGE TO MOUNTAIN ROAD NW.

THIS SUBMITTAL IS MADE IN SUPPORT OF SITE PLAN APPROVAL AT THE EPC.

**II. PROJECT DESCRIPTION**

AS SHOWN BY THE VICINITY MAP, THE SITE IS LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF MOUNTAIN ROAD NW AND 18TH STREET NW. THE PROJECT AREA IS LOCATED AT THE SOUTHEAST CORNER OF THE SITE. THE CURRENT LEGAL DESCRIPTION OF THE SITE IS "TRACT B-3-A AND A PORTION OF B-3-B, FREEWAY-OLDTOWN, LIMITED, ALBUQUERQUE, NEW MEXICO, AS SHOWN BY PANEL 331 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS FOR BERNALILLO COUNTY, NEW MEXICO, SEPTEMBER 26, 2008, THIS SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE. HOWEVER, IT WAS PREVIOUSLY RECOGNIZED BY 1998 SUBMITTAL THAT MOUNTAIN ROAD NW HAS LIMITED DRAINAGE CAPACITY. IN RECOGNITION OF THIS AND IN SUPPORT OF THE MISSION OF THE MUSEUM, WATER HARVESTING AREAS WERE CREATED THAT EFFECTIVELY ACTED AS DETENTION PONDS. IN KEEPING WITH THE PAST INTENT, THE CONTINUED ROUTING OF DEVELOPED RUNOFF THROUGH EXISTING WATER HARVESTING AREAS IS PROPOSED DESPITE THE FACT THAT THE SITE IS ALLOWED FREE DISCHARGE TO THE ADJACENT CITY STREETS.

**III. BACKGROUND DOCUMENTS AND RESEARCH**

THE PREPARATION OF THIS SUBMITTAL RELIED UPON THE FOLLOWING DOCUMENTS:

- CONCEPTUAL GRADING & DRAINAGE PLAN FOR THE EXPLORA SCIENCE CENTER PREPARED BY HIGH MESA CONSULTING GROUP (FORMERLY JEFF MORTENSEN & ASSOCIATES, INC) DATED 06-30-98. THE PURPOSE OF THE CONCEPTUAL PLAN ESTABLISHED THAT FREE DISCHARGE IS PERMISSIBLE FROM THE SITE TO MOUNTAIN ROAD NE, WHILE ALSO ESTABLISHING THE CONCEPT OF MITIGATING NOISANCE FLOWS BY ROUTING DEVELOPED RUNOFF THROUGH WATER HARVESTING AREAS. THE CONCEPTUAL PLAN ALSO IDENTIFIED THAT THE DEVELOPED SITE IS COMPRISED OF THREE (3) DRAINAGE BASINS SUBSEQUENTLY REFINED BY FINAL DESIGN; THE PROPOSED SITE LIES WITHIN BASIN B AS PREVIOUSLY DEFINED.
- DRAINAGE SUBMITTAL FOR THE EXPLORA SCIENCE CENTER & CHILDREN'S MUSEUM PREPARED BY HIGH MESA CONSULTING GROUP (FORMERLY JEFF MORTENSEN & ASSOCIATES, INC), NMP# 8547, DATED 09-21-99 AND CERTIFIED 09-04-2002. THE REFERENCE DOCUMENT PROVIDES THE BASIS FOR THE EXISTING CONDITIONS OF THE SITE FOR THE PURPOSES OF THIS SUBMITTAL FOR SITE PLAN APPROVAL AND ESTABLISHES THAT OFFSITE FLOWS DO NOT IMPACT BASIN B.

**IV. EXISTING CONDITIONS**

AT PRESENT, BASIN B GENERALLY DRAINS FROM NORTH TO SOUTH WITH DEVELOPED RUNOFF ROUTED THROUGH A WATER HARVESTING AREA THAT ALSO SERVES AS A "NATURE AREA", AN EXHIBIT TO THE MUSEUM. NOISANCE AND LOW FLOWS ARE MITIGATED BY THE WATER HARVESTING AREA BEFORE OVERFLOWING VIA SIDEWALK CULVERT TO MOUNTAIN ROAD NW.

AS PREVIOUSLY DEMONSTRATED, NO OFFSITE FLOWS IMPACT BASIN B.

**V. DEVELOPED CONDITIONS**

PHASED BUILDING ADDITIONS ARE PROPOSED WITHIN BASIN B. THESE IMPROVEMENTS WILL ENCR OACH UPON THE WATER HARVESTING AREA PREVIOUSLY IDENTIFIED AS A "DETENTION POND", ALTHOUGH NOT REQUIRED FOR PRIOR APPROVALS (I.E. FREE DISCHARGE WAS DETERMINED TO BE PERMISSIBLE). THE DEVELOPED RUNOFF FROM THE PROPOSED BUILDING ADDITIONS WILL CONTINUE TO BE ROUTED THROUGH THE EXISTING "NATURE AREA" WITH OVERFLOW TO MOUNTAIN ROAD NW VIA EXISTING SIDEWALK CULVERT. THE FINISHED FLOOR ELEVATION OF THE PROPOSED BUILDING ADDITIONS WILL MATCH THE EXISTING BUILDING THAT IS SIGNIFICANTLY HIGHER THAN THE MAXIMUM WATER SURFACE ELEVATION OF THE NATURE AREA THEREBY PROTECTING THE BUILDING FROM ONSITE FLOODING. IN ADDITION, THE STRUCTURAL DESIGN OF THE BUILDING ADDITION FOUNDATIONS SHALL TAKE INTO ACCOUNT THE PROXIMITY OF THE NEW BUILDING FOOTPRINT TO THE MAXIMUM WATER SURFACE ELEVATION WITHIN THE NATURE AREA TO MAKE SURE THE FOUNDATION IS WATERPROOF AND PROTECTED FROM SETTLEMENT.

**VI. GRADING PLAN**

THE GRADING PLAN SHOWS 1.) EXISTING GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1'0" INTERVALS AS TAKEN FROM THE DRAINAGE CERTIFICATION DATED 09-04-2002. 2.) PROPOSED GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1'0" INTERVALS. 3.) PHASING. 4.) THE LIMIT AND CHARACTER OF THE EXISTING IMPROVEMENTS TAKEN FROM THE DRAINAGE CERTIFICATION DATED 09-04-2002. 5.) THE LIMIT AND CHARACTER OF THE PROPOSED IMPROVEMENTS, AND 6.) CONTINUITY BETWEEN EXISTING AND PROPOSED GRADES.

**VII. CALCULATIONS**

THE CALCULATIONS CONTAINED HEREON ANALYZE THE EXISTING AND DEVELOPED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL EVENT FOR BASIN B (THE PORTION OF THE SITE AFFECTED BY THE PROPOSED IMPROVEMENTS). THE PROCEDURE FOR 40 ACRE AND SMALLER BASINS, AS SET FORTH IN THE REVISION OF SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA, DATED JANUARY 1993, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUNOFF GENERATED. AS DEMONSTRATED BY THESE CALCULATIONS, THE PROPOSED IMPROVEMENTS WILL RESULT IN A MINOR INCREASE IN THE PEAK RATE OF DISCHARGE AND VOLUME OF RUNOFF GENERATED BY THIS PROJECT.

**VIII. CONCLUSIONS**

THE FOLLOWING CONCLUSIONS HAVE BEEN ESTABLISHED AS A RESULT OF THE EVALUATIONS AND ANALYSES CONTAINED HEREIN:

- THE SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE.
- THE FREE DISCHARGE OF RUNOFF FROM THIS SITE IS APPROPRIATE BASED UPON PRIOR SUBMITTALS.
- THE CONTINUED ROUTING OF BASIN B RUNOFF THROUGH THE NATURE AREA IS APPROPRIATE AND INTEGRAL TO THE EXHIBIT.
- THE ROUTING OF BASIN B RUNOFF THROUGH THE NATURE AREA IS NOT REQUIRED AS FREE DISCHARGE IS PERMISSIBLE.
- THE PROPOSED IMPROVEMENTS WILL RESULT IN A NEGLIGIBLE INCREASE IN RUNOFF GENERATED BY BASIN B.
- THE PROPOSED IMPROVEMENTS WILL NOT ADVERSELY IMPACT DOWNSTREAM PROPERTIES OF CONDITIONS.

### CALCULATIONS

**I. SITE CHARACTERISTICS**

A. PRECIPITATION ZONE = 2

B.  $P_{6,100} = P_{300} = 2.35$

C. TOTAL PROJECT AREA ( $A_T$ ) = 66,150 SF  
1.52 AC

**D. LAND TREATMENTS**

**1. EXISTING LAND TREATMENT**

a. BASIN B TREATMENT	66,150 SF = 1.52 AC	%
B	27,350 / 0.63	41
D	38,800 / 0.89	59

**2. DEVELOPED LAND TREATMENT**

a. BASIN B - PHASE 1 TREATMENT	66,150 SF = 1.52 AC	%
B	23,500 / 0.54	36
D	42,650 / 0.98	64
b. BASIN B - PHASE 2 TREATMENT	66,150 SF = 1.52 AC	%
B	21,050 / 0.48	32
D	45,100 / 1.04	68
c. BASIN B - PHASE 3 TREATMENT	66,150 SF = 1.52 AC	%
B	18,450 / 0.42	28
D	47,700 / 1.10	72

**II. HYDROLOGY**

**A. EXISTING CONDITION**

**1. BASIN B**

a. VOLUME  
 $E_w = (E_{wA} + E_{wB} + E_{wC} + E_{wD})/A_T$   
 $E_w = ((0.00*0.53) + (0.63*0.78) + (0.00*1.13) + (0.89*2.12))/1.52 = 1.57$  IN  
 $V_{100} = (E_w/12)A_T = (1.57/12)1.52 = 0.1989$  AC-FT = 8,860 CF

b. PEAK DISCHARGE  
 $Q_p = Q_{pA} + Q_{pB} + Q_{pC} + Q_{pD}$   
 $Q_p = Q_{100} = ((0.00*1.56) + (0.63*2.28) + (0.00*3.14) + (0.89*4.7)) = 5.6$  CFS

**B. DEVELOPED CONDITION**

**1. BASIN B - PHASE 1**

a. VOLUME  
 $E_w = (E_{wA} + E_{wB} + E_{wC} + E_{wD})/A_T$   
 $E_w = ((0.00*0.53) + (0.48*0.78) + (0.00*1.13) + (0.98*2.12))/1.52 = 1.64$  IN  
 $V_{100} = (E_w/12)A_T = (1.64/12)1.52 = 0.2077$  AC-FT = 9,050 CF

b. PEAK DISCHARGE  
 $Q_p = Q_{pA} + Q_{pB} + Q_{pC} + Q_{pD}$   
 $Q_p = Q_{100} = ((0.00*1.56) + (0.54*2.28) + (0.00*3.14) + (0.98*4.7)) = 5.8$  CFS

**2. BASIN B - PHASE 2**

a. VOLUME  
 $E_w = (E_{wA} + E_{wB} + E_{wC} + E_{wD})/A_T$   
 $E_w = ((0.00*0.53) + (0.48*0.78) + (0.00*1.13) + (1.04*2.12))/1.52 = 1.69$  IN  
 $V_{100} = (E_w/12)A_T = (1.69/12)1.52 = 0.2141$  AC-FT = 9,320 CF

b. PEAK DISCHARGE  
 $Q_p = Q_{pA} + Q_{pB} + Q_{pC} + Q_{pD}$   
 $Q_p = Q_{100} = ((0.00*1.56) + (0.48*2.28) + (0.00*3.14) + (1.04*4.7)) = 6.0$  CFS

**3. BASIN B - PHASE 3**

a. VOLUME  
 $E_w = (E_{wA} + E_{wB} + E_{wC} + E_{wD})/A_T$   
 $E_w = ((0.00*0.53) + (0.42*0.78) + (0.00*1.13) + (1.10*2.12))/1.52 = 1.74$  IN  
 $V_{100} = (E_w/12)A_T = (1.74/12)1.52 = 0.2204$  AC-FT = 9,600 CF

b. PEAK DISCHARGE  
 $Q_p = Q_{pA} + Q_{pB} + Q_{pC} + Q_{pD}$   
 $Q_p = Q_{100} = ((0.00*1.56) + (0.42*2.28) + (0.00*3.14) + (1.10*4.7)) = 6.1$  CFS

**C. COMPARISON**

<b>1. BASIN B - PHASE 1</b>			
a. VOLUME	$V_{100} = 9,050 - 8,860 =$	390 CF	(INCREASE)
b. PEAK DISCHARGE	$Q_{100} = 5.8 - 5.6 =$	0.2 CFS	(INCREASE)
<b>2. BASIN B - PHASE 2</b>			
a. VOLUME	$V_{100} = 9,320 - 8,860 =$	660 CF	(INCREASE)
b. PEAK DISCHARGE	$Q_{100} = 6.0 - 5.6 =$	0.4 CFS	(INCREASE)
<b>3. BASIN B - PHASE 3</b>			
a. VOLUME	$V_{100} = 9,600 - 8,860 =$	940 CF	(INCREASE)
b. PEAK DISCHARGE	$Q_{100} = 6.1 - 5.6 =$	0.5 CFS	(INCREASE)

### LEGAL DESCRIPTION:

TRACT B-3-A & PORTION OF B-3-B, FREEWAY-OLDTOWN LTD

**T.B.M. #1**  
 A BRIDGE SPIKE ON THE WEST FACE OF A WOOD POWER POLE LOCATED NEAR THE NORTHEAST CORNER OF THE PROPERTY AND OPPOSITE THE DEAD-END OF ROSEMONT ST. N.W. ELEVATION = 4959.61 FEET (M.S.L.D.)

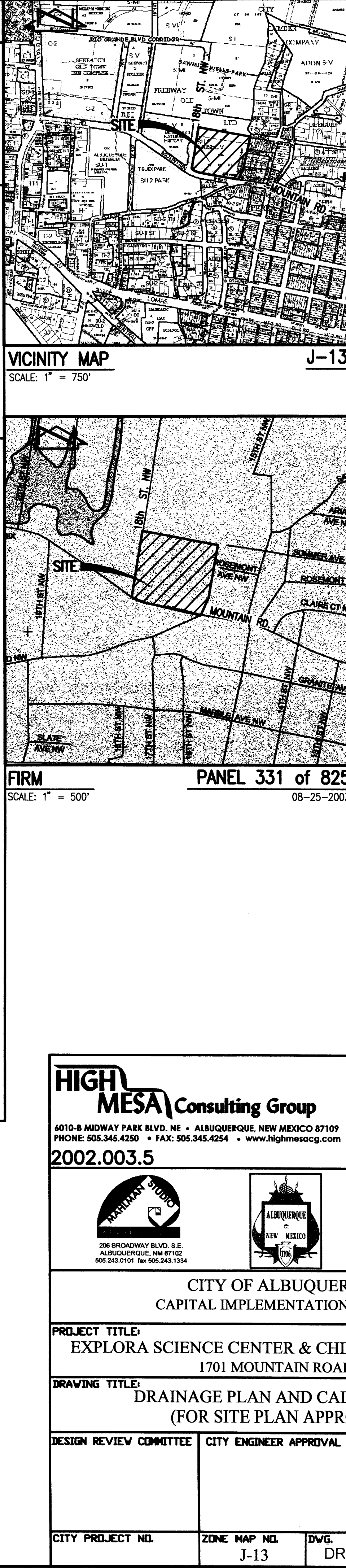
**T.B.M. #2**  
 A "C" CHISELED ON THE TOP OF CURB OF 18TH ST. N.W. AT THE N.W. CORNER OF THE PROPERTY. ELEVATION = 4957.60 FEET (M.S.L.D.)

**EROSION CONTROL MEASURES:**

- THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
- THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
- WHEN APPLICABLE, CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" FROM THE CITY AND/OR FILE A NOTICE OF INTENT (N.O.I.) WITH THE EPA PRIOR TO BEGINNING CONSTRUCTION.
- UNLESS FINAL STABILIZATION IS OTHERWISE PROVIDED FOR, ANY AREAS OF EXCESS DISTURBANCE (TRAFFIC ACCESS, STORAGE YARD, EXCAVATED MATERIAL, ETC.) SHALL BE RE-SEEDED ACCORDING TO C.O.A. SPECIFICATION 1012 "NATIVE GRASS SEEDING". THIS WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.

**LEGEND**

TC	TOP OF CURB
FL	FLOWLINE
TA	TOP OF ASPHALT
EA; E/A	EDGE OF ASPHALT
W.V.	WATER VALVE
W.M.	WATER METER
TCO	TOP OF CONCRETE
T.R.	TELEPHONE RISER
E.C.	ELECTRIC CONDUIT
U/G T	UNDERGROUND TELEPHONE
W.C. RAMP	WHEELCHAIR RAMP
H.C. SIGN	HANDICAP SIGN
O.H.	OVERHEAD
S.V.B.	SPRINKLER VALVE BOX
A.S.V.	ANTI-SIPHON VALVE
RD	ROOF DRAIN
C.O.	CLEAN-OUT
DBL. C.O.	DOUBLE CLEAN-OUT
NG	NATURAL GRADE
U/G	UNDERGROUND
HVAC	HEATING/VENTILATION/AIR CONDITIONING
X-FMR	TRANSFORMER
S.G.P.	STEEL GUARD POST
P.P.	POWER POLE
CL	CENTERLINE
COV. CONC.	COVERED CONCRETE
SW	TOP OF SIDEWALK
TW	TOP OF WALL
FH	FIRE HYDRANT
L.P.	LIGHT POLE
4960	STUMP
4960	EXISTING CONTOUR
62.00	SMALL SHRUB
60	DECIDUOUS TREE
60	TREE LINE
60	EXISTING SPOT ELEVATION
60	HIGH POINT
60	PROPOSED SPOT ELEVATION
60	PROPOSED CONTOUR
60	PROPOSED FLOWLINE
60	EXISTING DIRECTION OF FLOW
60	PROPOSED DIRECTION OF FLOW
60	RETAINING WALL
60	PROPOSED CONCRETE
60	PROPOSED ASPHALT PAVING



CONTRACTOR	AS BUILT INFORMATION	DATE	DATE	DATE	DATE	DATE
WORK STAKED BY	INSPECTOR'S ACCEPTANCE BY	DATE	DATE	DATE	DATE	DATE
FIELD VERIFICATION BY	DRAWINGS CORRECTED BY	DATE	DATE	DATE	DATE	DATE
MICRO-FILM INFORMATION	RECORDED BY	NO.	NO.	NO.	NO.	NO.

**SEAL**

JEFFREY G. MORTENSEN, P.E., PROFESSIONAL ENGINEER, STATE OF NEW MEXICO, LICENSE NO. 8547

10-21-2011

**REVISIONS**

NO.	DATE	REVISIONS
01	09-20-2011	DESIGN
02	09-20-2011	DESIGN

**DESIGNED BY** J.G.M. **DATE** 09-20-2011

**DRAWN BY** J.Y.R./J.D.S. **DATE** 09-20-2011

**CHECKED BY** J.G.M. **DATE** 09-20-2011

**CITY OF ALBUQUERQUE**  
 CAPITAL IMPLEMENTATION PROGRAM

**PROJECT TITLE:**  
 EXPLORA SCIENCE CENTER & CHILDREN'S MUSEUM  
 1701 MOUNTAIN ROAD NW

**DRAWING TITLE:**  
 DRAINAGE PLAN AND CALCULATIONS  
 (FOR SITE PLAN APPROVAL)

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MD/DAY/YR.	MD/DAY/YR.

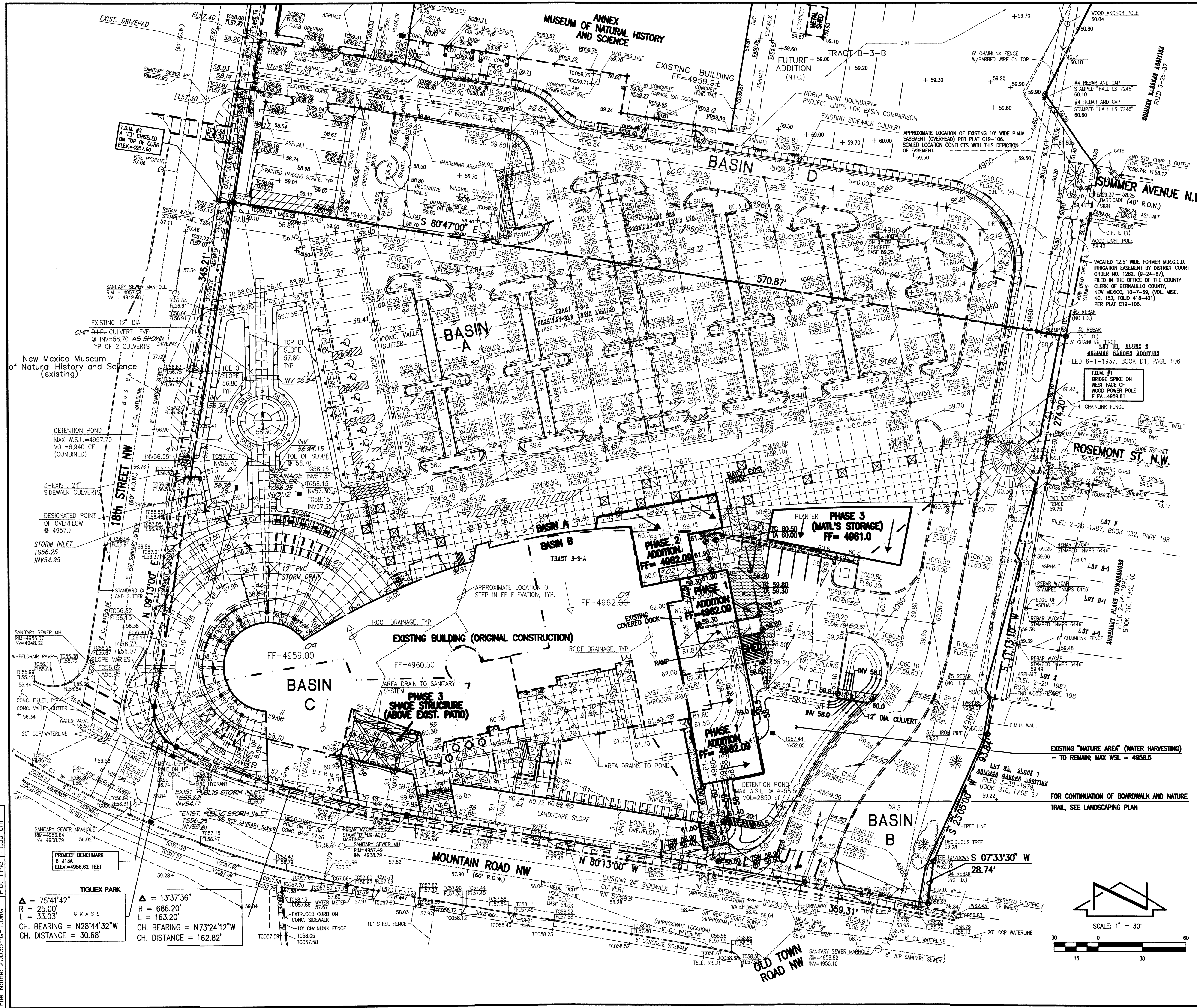
**CITY PROJECT NDL** J-13 **ZONE MAP NDL** DRB # 3 **DWG.** SHEET 3 OF 7

**HIGH MESA Consulting Group**

4010-B MIDWAY PARK BLVD. NE • ALBUQUERQUE, NEW MEXICO 87109  
 PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com

2002.003.5

198 BROADWAY BLVD. S.E.  
 ALBUQUERQUE, NM 87102  
 505.243.0101 fax 505.243.1334



**LEGAL DESCRIPTION:**  
 TRACT B-3-A & PORTION OF B-3-B, FREEWAY-OLDTOWN LTD

**T.B.M. #1**  
 A BRIDGE SPIKE ON THE WEST FACE OF A WOOD POWER POLE LOCATED NEAR THE NORTHEAST CORNER OF THE PROPERTY AND OPPOSITE THE DEAD-END OF ROSEMONT ST. N.W. ELEVATION = 4959.61 FEET (M.S.L.D.)

**T.B.M. #2**  
 A "C" CHISEL ON THE TOP OF CURB OF 18TH ST. N.W. AT THE N.W. CORNER OF THE PROPERTY. ELEVATION = 4957.60 FEET (M.S.L.D.)

**LEGEND**

TC	TOP OF CURB
FL	FLOWLINE
EA	TOP OF ASPHALT
E/A	EDGE OF ASPHALT
W.V.	WATER VALVE
W.M.	WATER METER
TOC	TOP OF CONCRETE
T.R.	TELEPHONE RISER
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S.V.B.	SPRINKLER VALVE BOX
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DBL. C.O.	DOUBLE CLEAN-OUT
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U/G	UNDERGROUND
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S.G.P.	STEEL GUARD POST
P.P.	POWER POLE
CL	CENTERLINE
COV. CONC.	COVERED CONCRETE
SW	TOP OF SIDEWALK
TW	TOP OF WALL
LP	LIGHT POLE
	STUMP
	EXISTING CONTOUR
	SMALL SHRUB
	DECIDUOUS TREE
	TREE LINE
	EXISTING SPOT ELEVATION
	HIGH POINT
	PROPOSED SPOT ELEVATION
	PROPOSED CONTOUR
	PROPOSED FLOWLINE
	EXISTING DIRECTION OF FLOW
	PROPOSED DIRECTION OF FLOW
	RETAINING WALL
	PROPOSED CONCRETE
	PROPOSED ASPHALT PAVING

**SURVEY NOTE:**  
 THIS IS NOT A BOUNDARY SURVEY; DATA IS SHOWN FOR ORIENTATION ONLY. THE BOUNDARY INFORMATION DEPICTED BY THIS PLAN IS BASED UPON A PRELIMINARY BOUNDARY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, (FORMERLY JEFF MORTENSEN AND ASSOCIATES INC.) NUMBER 11184, DATED 1995. THE FINAL SURVEY IS STILL PENDING RECEIPT OF COMPLETE TITLE INFORMATION FROM PROPERTY OWNER. THE EXISTING INFORMATION DEPICTED HEREON IS BASED UPON THE ENGINEER'S DRAINAGE CERTIFICATION BY HIGH MESA CONSULTING GROUP (FORMERLY JEFF MORTENSEN AND ASSOCIATES INC.) NUMBER 8547, DATED 09-04-2002 (2002.003.1)

**SEAL**

**DESIGNED BY** J.G.M. **DATE** 10-2011  
**DRAWN BY** J.Y.R. **DATE** 10-2011  
**CHECKED BY** J.G.M. **DATE** 10-2011

**REVISIONS**

NO.	DATE	REVISIONS
921012	03-05	HMC3
921012	12-08	HMC3

**CITY OF ALBUQUERQUE**  
 CAPITAL IMPLEMENTATION PROGRAM

**PROJECT TITLE:**  
 EXPLORA SCIENCE CENTER & CHILDREN'S MUSEUM  
 1701 MOUNTAIN ROAD NW

**DRAWING TITLE:**  
 PRELIMINARY GRADING PLAN  
 (FOR SITE PLAN APPROVAL)

**DESIGN REVIEW COMMITTEE** CITY ENGINEER APPROVAL

LAST DESIGN UPDATE	MIL/DAY/YR.	MIL/DAY/YR.

**CITY PROJECT NO.** **ZONE MAP NO.** **DWG.** **SHEET** **DF**  
 J-13 DRB # 4 4 7

Plot Date: 10-21-2011  
 Plot Time: 11:30 am  
 File Name: 20035-GP1.DWG

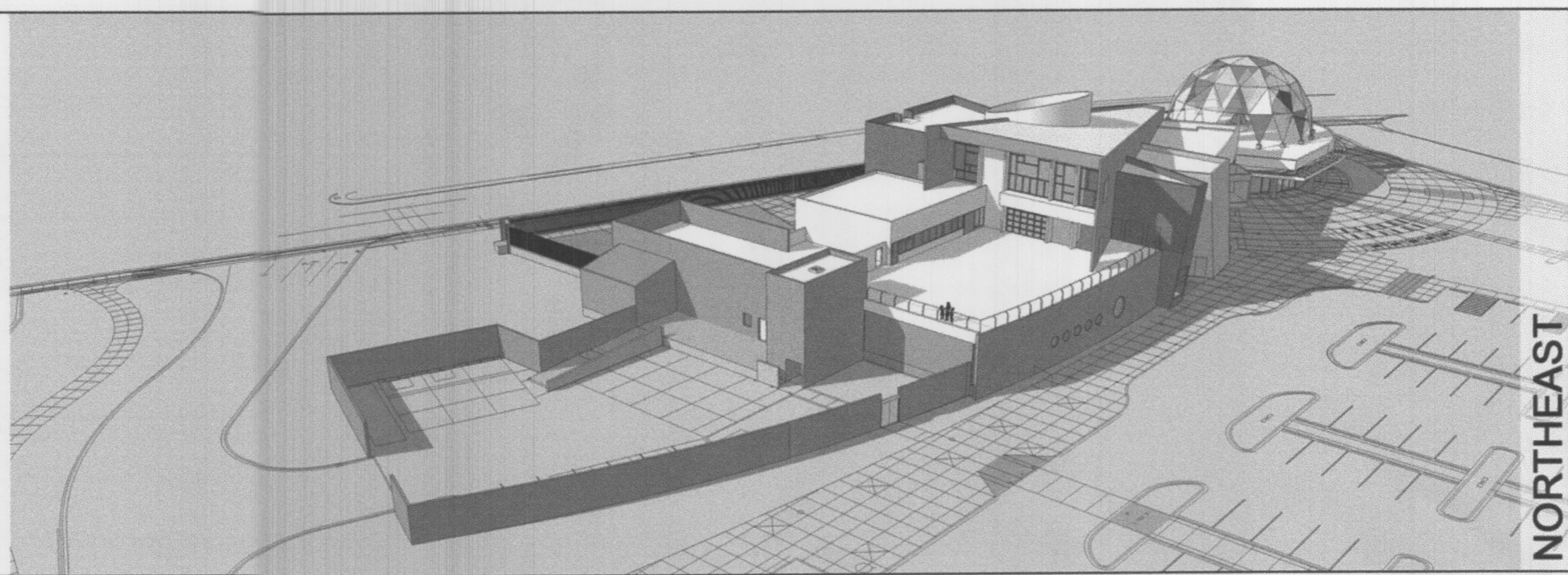
**TQLEX PARK**

$\Delta = 75'41.42"$   
 $R = 25.00'$   
 $L = 33.03'$   
 CH. BEARING = N28°44'32"W  
 CH. DISTANCE = 30.68'

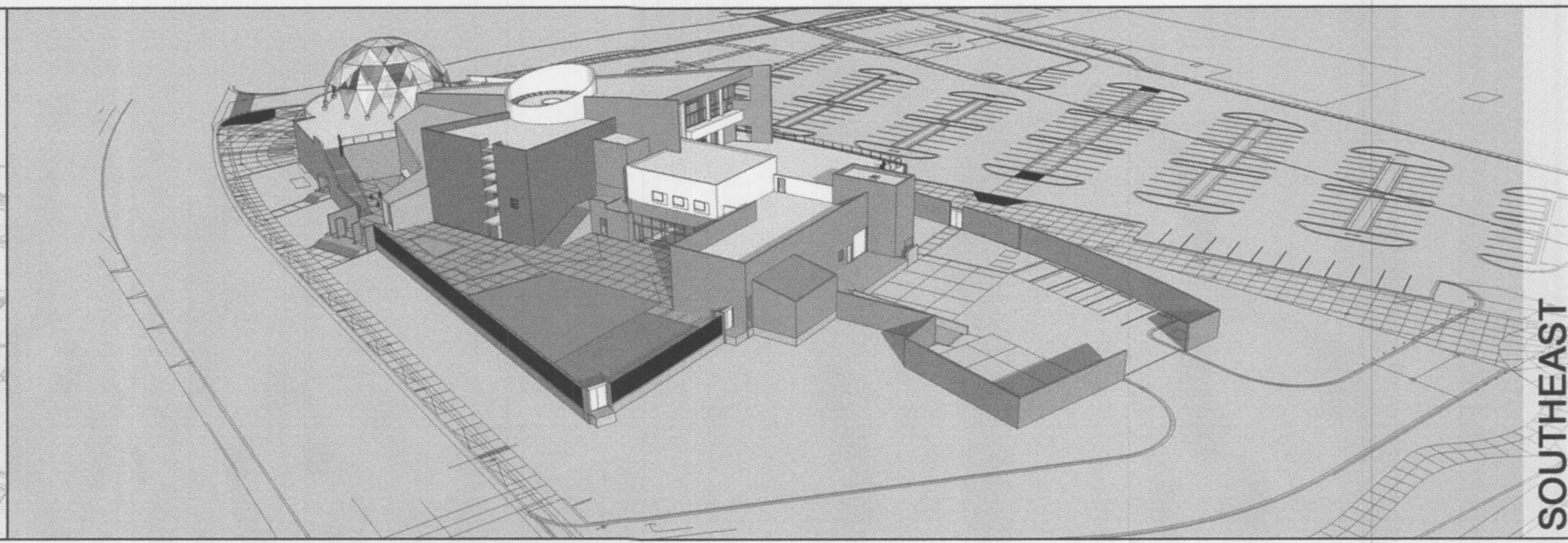
$\Delta = 13'37.36"$   
 $R = 686.20'$   
 $L = 163.20'$   
 CH. BEARING = N73°24'12"W  
 CH. DISTANCE = 162.82'



EXISTING

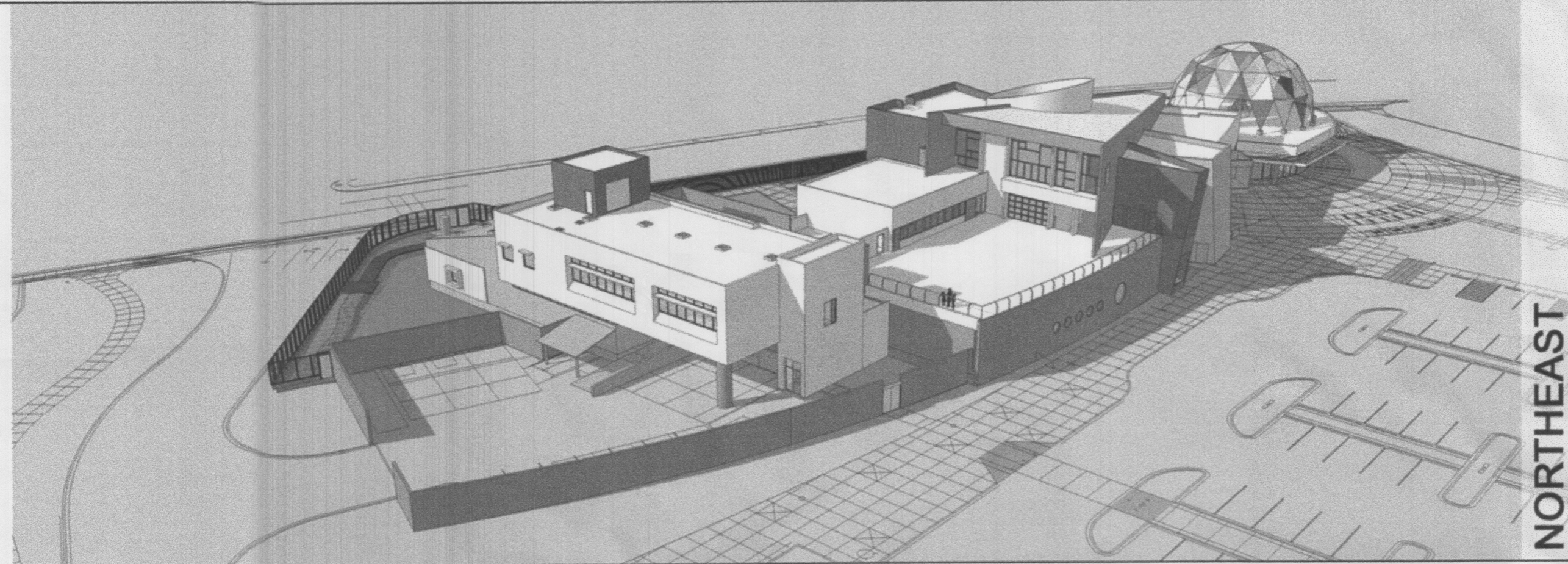


NORTHEAST

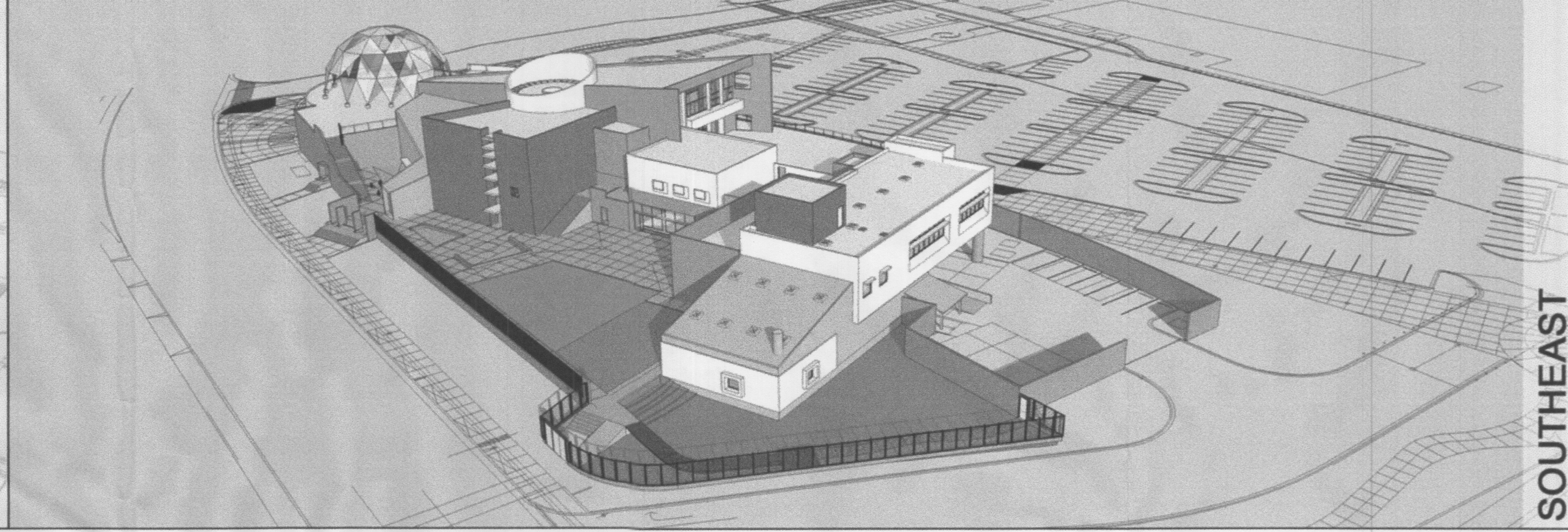


SOUTHEAST

PHASE I

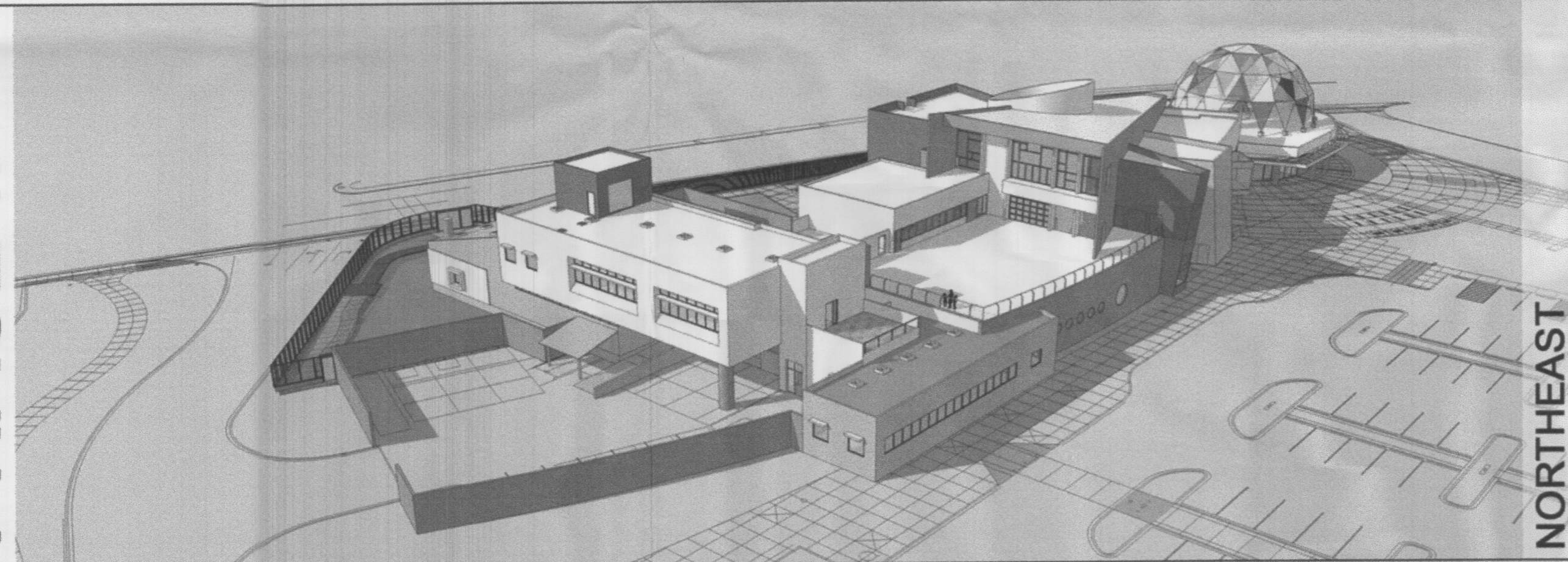


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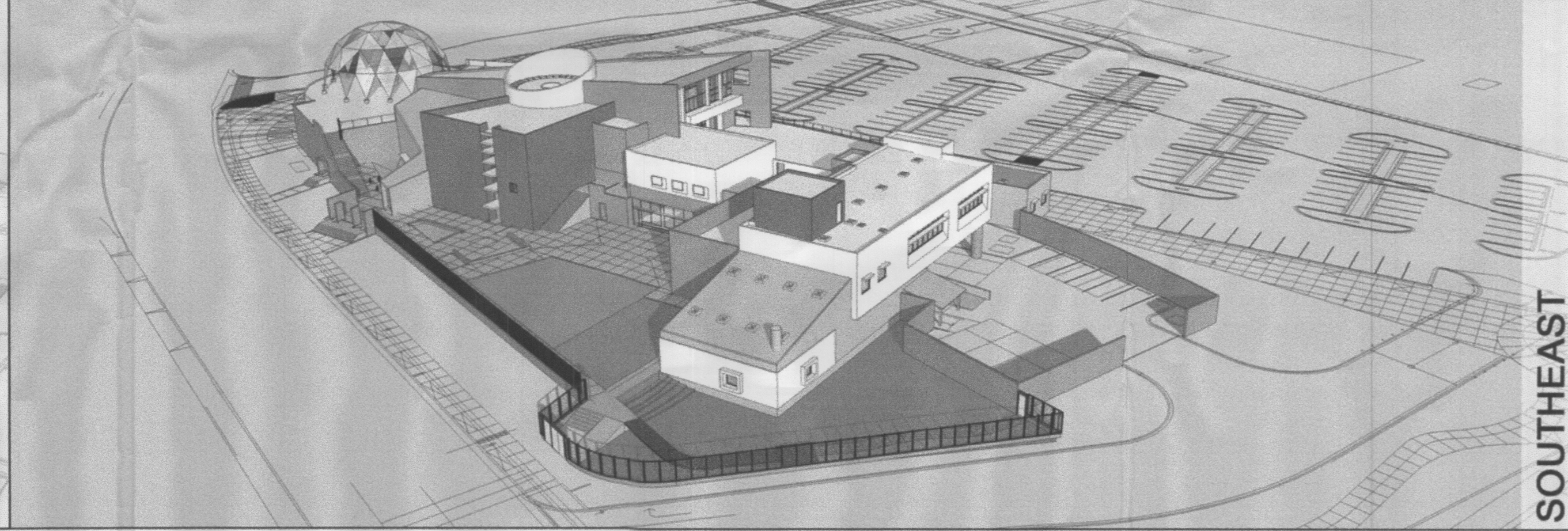


SOUTHEAST

PHASE II



NORTHEAST

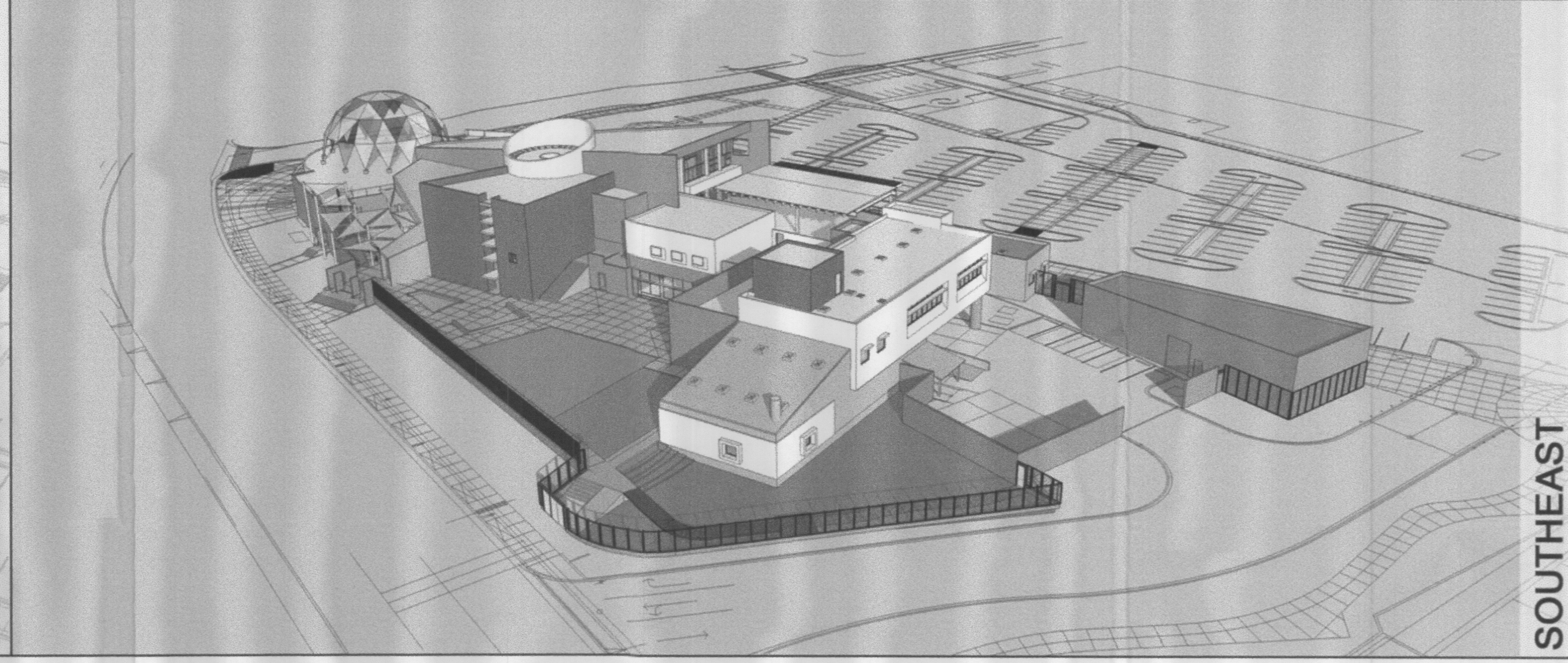


SOUTHEAST

PHASE III



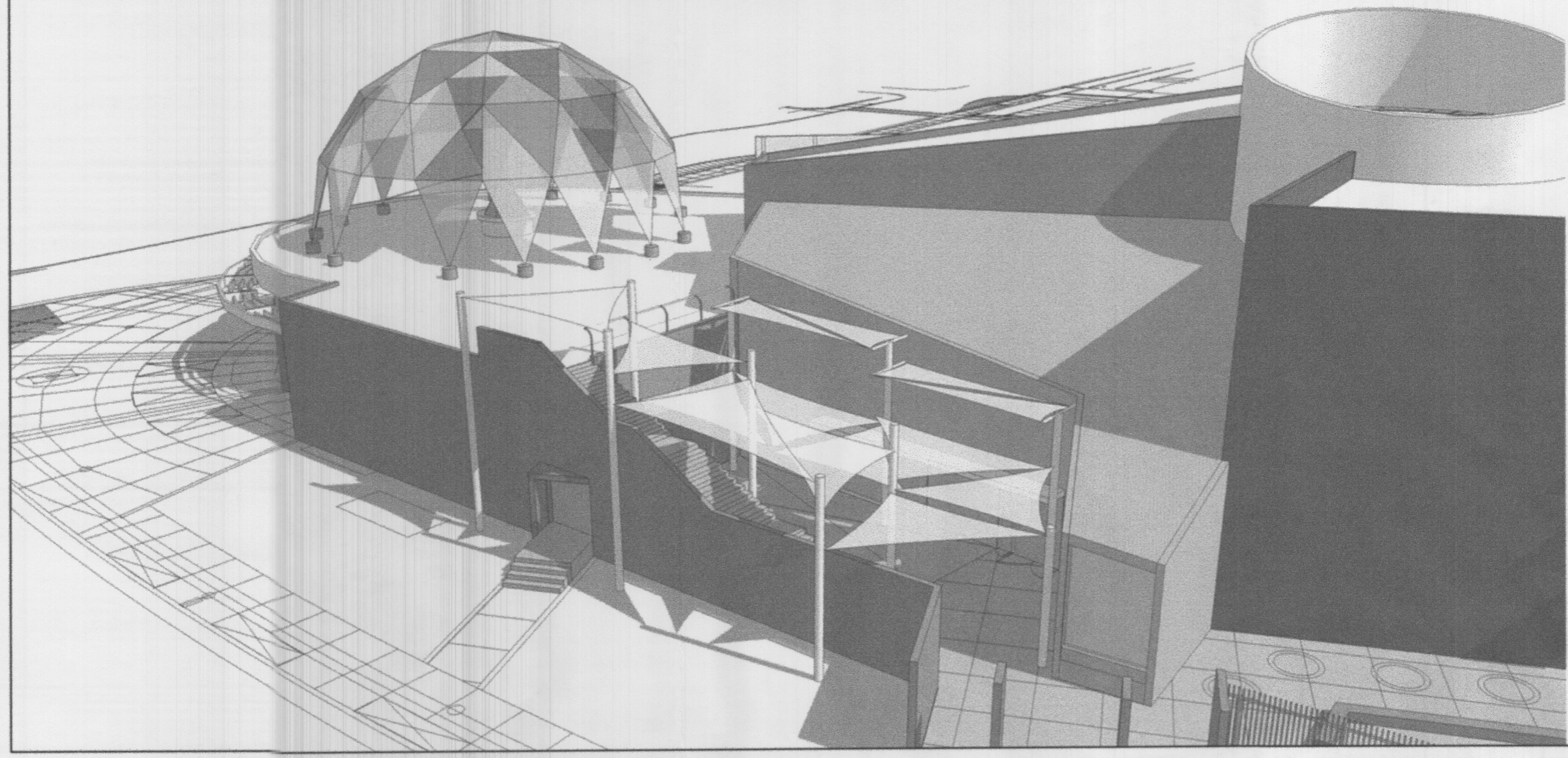
NORTHEAST



SOUTHEAST

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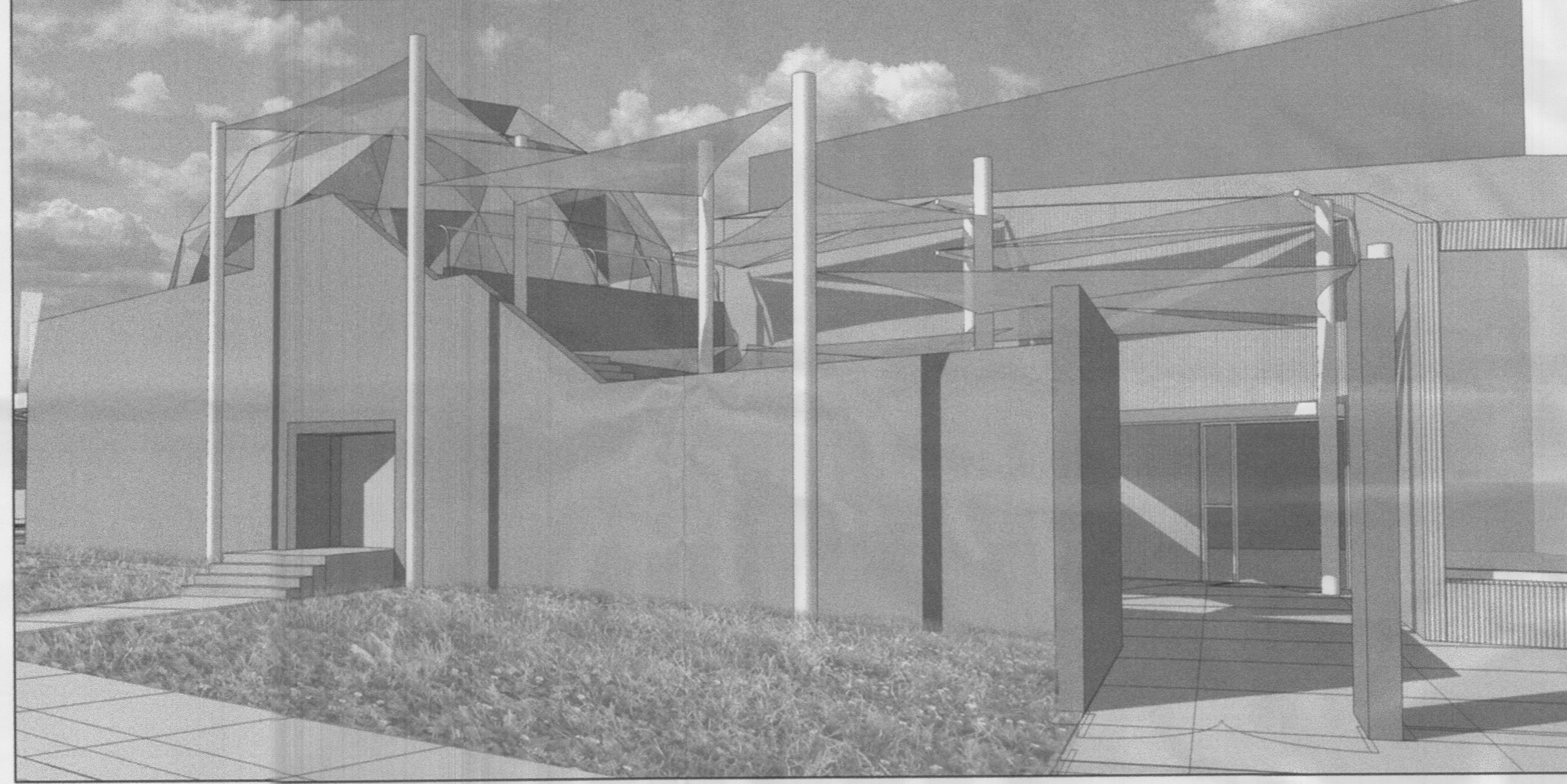
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BENCH MARKS																			
SURVEY INFORMATION		FIELD NOTES		BY	DATE														
SEAL																			
REVISIONS		NO.	DATE	REMARKS	DESIGNED BY	DATE	DRAWN BY	DATE	CHECKED BY	DATE									
PROJECT TITLE:		EXPLORA SCIENCE CENTER & CHILDREN'S MUSEUM																	
DRAWING TITLE:		EXPANSION PHASING																	
LAST DESIGN UPDATE:		MO./DAY/YR.	MO./DAY/YR.																
		10/27/2011																	
DWG. DRB # 6		SHEET 6		OF 7															



SOUTHWEST AERIAL VIEW



NORTHEAST AERIAL VIEW



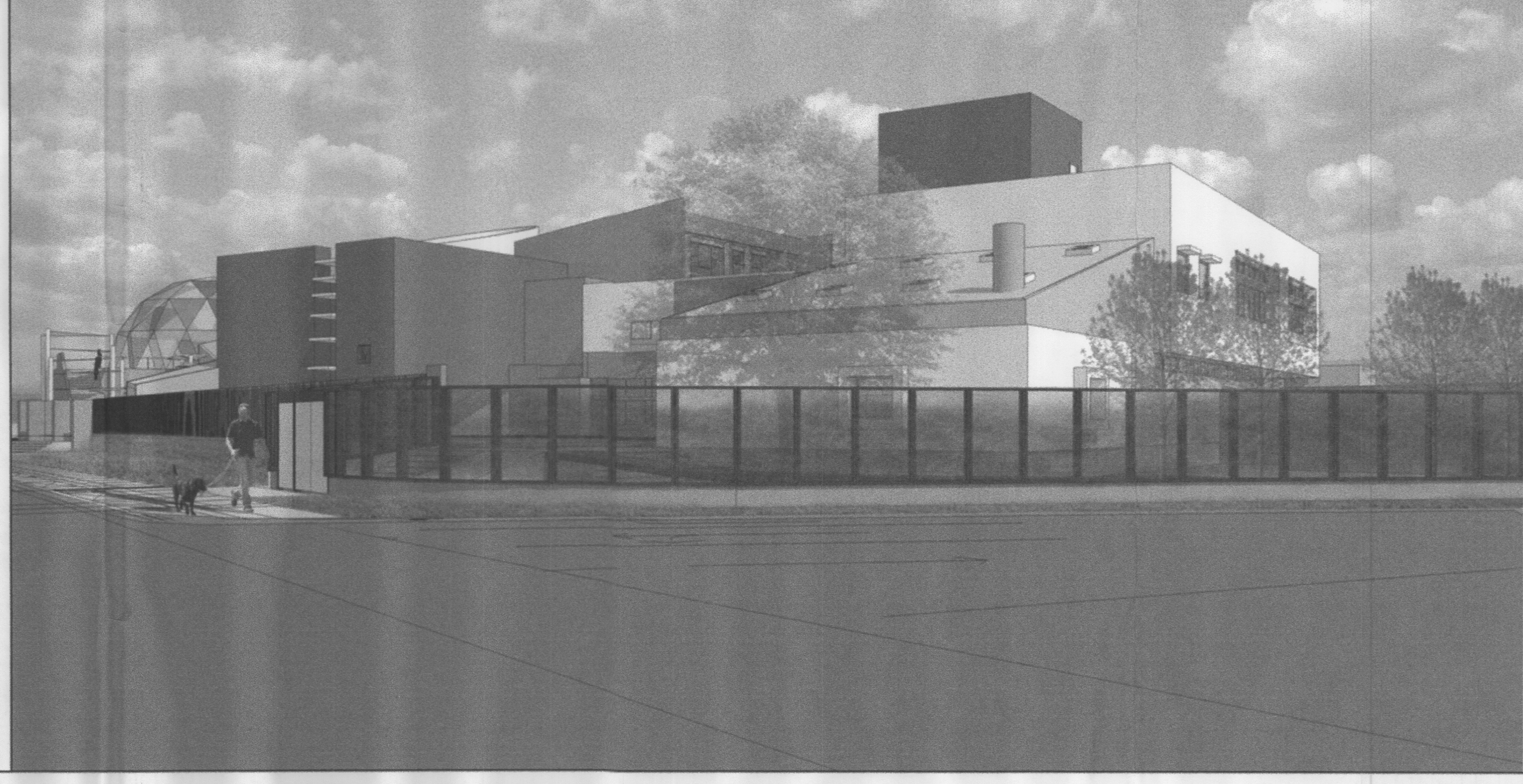
PHASE III SHADE STRUCTURE



PHASE I NATURE WALK AREA



NORTHEAST PARKING VIEW



SOUTHEAST STREET VIEW

FILE PATH: FILE NAME: SHEET NAME:

<p>CONTRACTOR</p> <p>WORK STARTED BY</p> <p>ACCEPTANCE BY</p> <p>FIELD VERIFICATION BY</p> <p>REVISIONS DRAWINGS CORRECTED BY</p> <p>RECORDED BY</p>		<p>AS BUILT INFORMATION</p> <p>DATE</p> <p>DATE</p> <p>DATE</p> <p>DATE</p> <p>DATE</p> <p>NO.</p>	
<p>NO.</p> <p>BY</p> <p>DATE</p>		<p>SURVEY INFORMATION</p> <p>FIELD NOTES</p>	
<p>NO.</p> <p>BY</p> <p>DATE</p>		<p>SEAL</p> <p>STATE OF NEW MEXICO</p> <p>DAVID S. MAHLMAN</p> <p>No. 1238</p> <p>REGISTERED ARCHITECT</p>	
<p>NO.</p> <p>DATE</p> <p>DESIGNED BY</p> <p>DRAWN BY</p> <p>CHECKED BY</p>		<p>REMARKS</p> <p>REVISIONS</p> <p>DESIGN</p> <p>DATE</p> <p>DATE</p> <p>DATE</p>	
<p>PROJECT TITLE:</p> <p>EXPLORA SCIENCE CENTER &amp; CHILDREN'S MUSEUM</p> <p>DRAWING TITLE:</p> <p>PERSPECTIVE VIEWS</p>			
<p>LAST DESIGN UPDATE</p> <p>10/27/2011</p>		<p>MO./DAY/YR.</p> <p>MO./DAY/YR.</p>	
<p>DWG. DRB # 7</p>		<p>SHEET OF 7 7</p>	