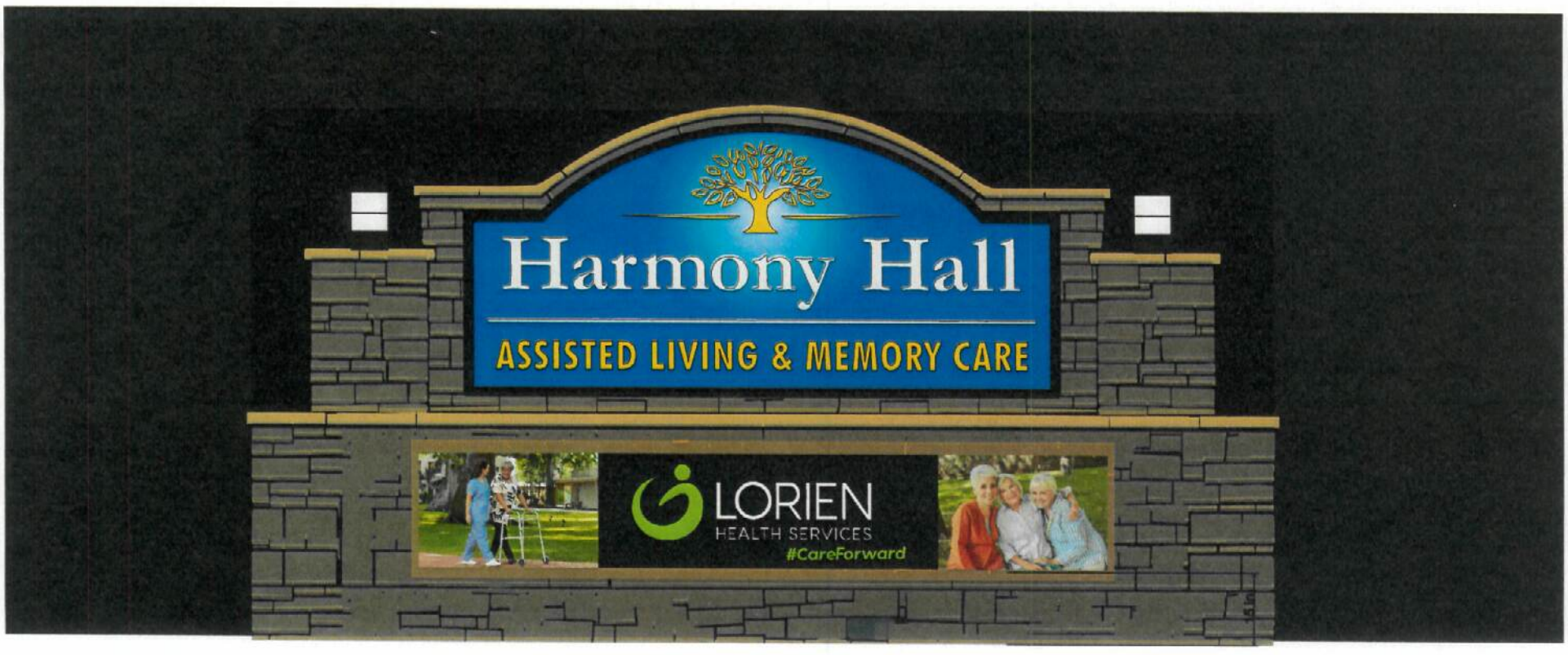

Harmony Hall
LORIEN
H. HALL SIGNAGE
ENTRANCE
2/5/26
2/11/26

Artwork Approval

105 Competitive Goals Dr. Eldersburg, MD 21784 1-800-368-2295

Customer Name	File
Lorien Health	monument2

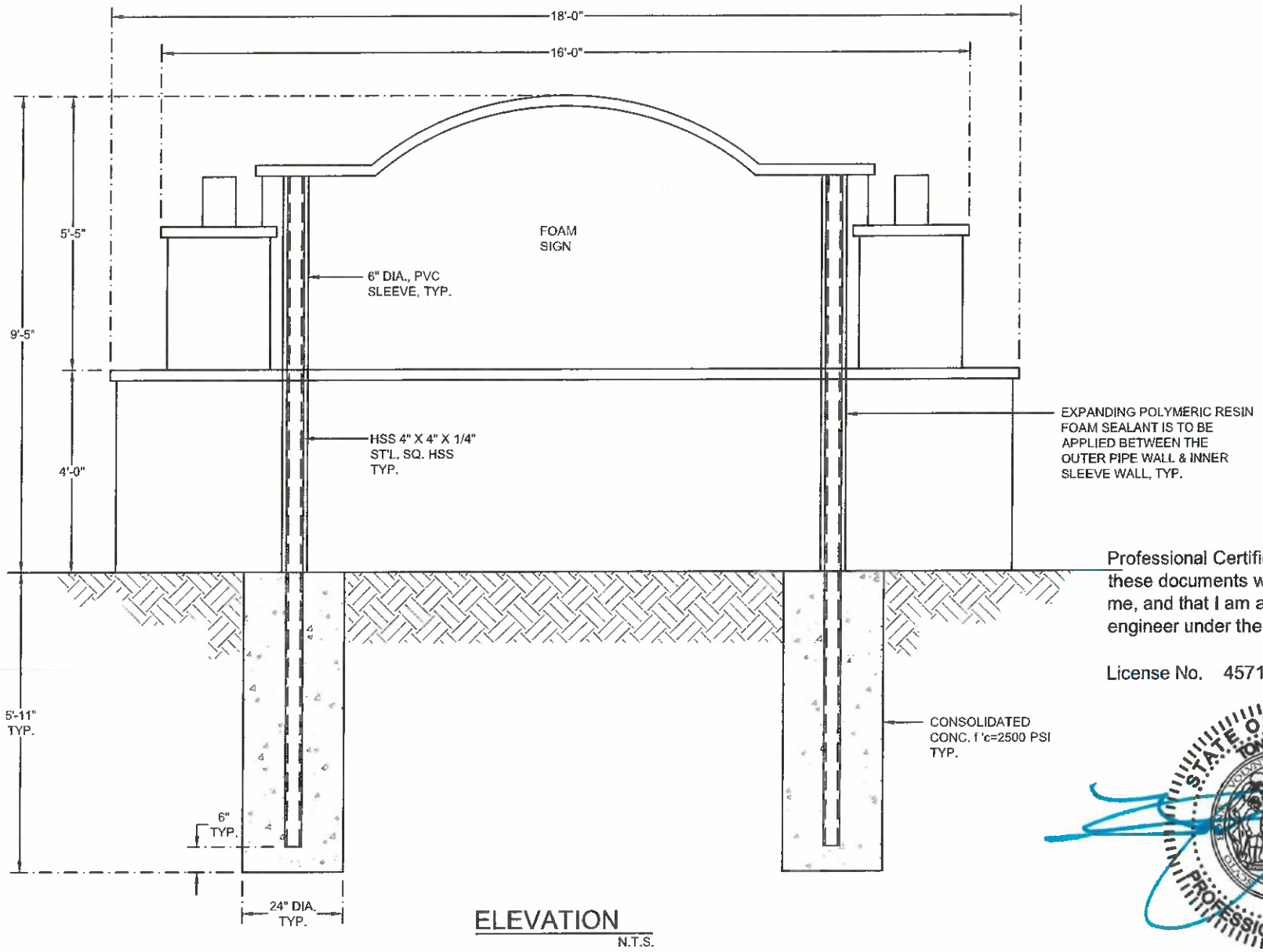
Date	Customer Approval	Approval Date
2/11/2026	X	



L\Lorien Health\Harmony Hall\Monument

www.shannonbaum.com

Designer: Joe Weber



ELEVATION
N.T.S.

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No. 45717 Expiration Date: 7/14/2026

DATE SIGNED: 04/08/2026

YJ SIGN INC.

P.O. Box 802050 Santa Clarita, CA 91380 - (877) 600-9444 - info@yjinc.com

Sign Design Based On 2024 IBC

Authorization Number: JTS_69426
Project: Lorien Harmony Hall - Monument
Job Location: 6336 Cedar Ln
Columbia,MD

INPUT DATA

Exposure category (B, C or D)		=	C	
Risk Category		=	II	
Ultimate Design Windspeed	V_{ult}	=	115	MPH
Topographic factor	K_{zt}	=	1.00	Flat
Height of the sign	h	=	9.42	FT
Vertical dimension (for wall, s = h)	s	=	9.42	FT
Horizontal dimension	B	=	18.00	FT
Dimension of return corner	L	=	2.50	FT

ANALYSIS

Velocity pressure

qz = 0.00256 Kz Kzt Ke V^2 = 28.78 PSF

where:

qz = velocity pressure at height h. (Eq. 26.10-1 page. 277)

Kz = velocity pressure exposure coefficient evaluated at height above gRnd. level, h (Tab. 26.10-1, page 277) = 0.85

Ke = ground elevation factor, see (Tab. 26.9-1, page 275) = 1.00

Wind Force Case A: resultant force through geometric center

Max horizontal wind pressure: p=qz Kd G Cf	=	29	PSF
G = gust effect factor. (Sec. 26.11.1, page 277)	=	0.85	
Cf = net force coefficient. (Fig. 29.3-1, page 301)	=	1.40	
Kd = wind directionality factor. (Tab. 26.6-1, page 274)	=	0.85	
As = B s = the gross area	=	169.56	FT^2
Estimated sign cabinet weight	=	1017.36	LBS.

DESIGN SUMMARY

Allowable Stress Design Wind Factor		=	0.60	
Design Wind Pressure	0.6 x p	=	17.54	PSF
Design Windforce, F	17.54 x As	=	2.97	KIPS
Moment Arm		=	5.18	FT
Design Moment	F x Moment Arm	=	15.41	KIP-FT

FOOTING DESIGN (Non Constrained) (2 Footings)

Diameter	=	2.00	FT
Soil Pressure	=	150.00	PSF/FT
S1	=	585.00	PSF
A	=	2.97	FT
EMBED.	=	5.85	FT

DIAMETER = 24" DEPTH = 5' - 11"

POLE DESIGN (2 Design)

Name	Design Type	Material	Parameter Checks Design Sreq		Spole	
HSS 4 x 4 x 1/4	Steel Square HSS	St'l Sq. / Rect. - A500 Gr. B	3.35	<	3.90	OK!

Page 1 of 1

NOTES :

GENERAL :
- SIGN DESIGN IS BASED ON ADEQUATE EXISTING SUPPORT ELEMENTS.
- PROVIDE ISOLATION BETWEEN DISSIMILAR MATERIALS.
- COAT ALUMINUM IN CONTACT WITH CONCRETE WITH ZINC RICH PAINT.
- PROVIDE FULLY WELDED END CAPS AT EXPOSED OPEN ENDS OF STEEL / ALUM. TUBES, MATCH THICKNESS LIKE FOR LIKE.
- SLOPE TOP OF EXPOSED FOOTING AWAY FROM DIRECT BURIAL POSTS
- ALL EXPOSED STEEL TO BE PRIMED & PAINTED (POWDER COAT AS AN OPTION) OR ALTERNATIVELY USE GALVANIZED STEEL.

STEEL :

DESIGN AND FABRICATION ACCORDING TO 2024 IBC
- PLATE, ANGLE, CHANNEL TEE: ASTM A36
- WIDE FLANGE: ASTM A992
- ROUND PIPE: ASTM A53 GRADE B OR EQUIVALENT.
- HSS ROUND, SQUARE, AND RECTANGULAR TUBE: ASTM A500 GRADE B OR EQUIVALENT.
- STAINLESS STEEL ROUND, SQUARE, AND RECTANGULAR TUBE: ASTM A276 T304 OR EQUIVALENT.
- ALL ANCHORS BOLTS SHALL BE: ASTM F1554 OR ASTM F593 T304 U.N.O.
- ALL STEEL MACHINED BOLTS SHALL BE: ASTM A307, A325 OR A449 U.N.O.
- ALL STAINLESS STEEL MACHINED BOLTS SHALL BE: ASTM F593 T304 U.N.O.
- ALL STEEL BOLTS TO BE ZINC COATED: ASTM B633
- DEFORMED REINFORCING REBAR: ASTM A615 GRADE 60.

STEEL

DESIGN AND FABRICATION ACCORDING TO AWS D1.1. / D1.3 & D1.6
- AWS CERTIFICATION REQUIRED FOR ALL STRUCTURAL WELDERS.

ALUMINUM :

DESIGN AND FABRICATION ACCORDING TO 2020 ALUM. DESIGN MANUAL

PLATES, ANGLES, CHANNELS, TEE, AND SQUARE TUBING: ALUMINUM
- ALLOY 6061 - T6 WITH 0.098 LBS PER CUBIC INCH.

ALUMINUM

DESIGN AND FABRICATION ACCORDING TO AWS D1.2, ALL WELDING IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS A.5.10. FILLER ALLOYS PER TABLES M.9.1 & M.9.2 OF 2020 ALUMINUM DESIGN MANUAL.

WELDING :
- WELD SIZE (LEG LENGTH) SHALL BE EQUAL TO THE THICKNESS OF THE THINNEST MEMBER AT THE JOINT, UNLESS NOTED OTHERWISE.
- E70 XX ELECTRODE FOR SMAW PROCESS.
- E70S XX ELECTRODE FOR GMAW PROCESS.
- ER7 XX ELECTRODE FOR GTAW PROCESS.
- E70T XX ELECTRODE FOR FCAW PROCESS.

ALL WELDS SHALL BE MADE WITH A FILLER METAL THAT CAN PRODUCE WELDS THAT HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20FT-LB AT ZERO 0° AS DETERMINED BY THE APPROPRIATE AWS A5 CLASSIFICATION TEST METHOD OR MFG'S. CERTIFICATION.

ANCHORS :
- BRAND NAME APPROVED ANCHORS SPECIFIED ON PLANS MAY BE SUBSTITUTED BY APPROVED EQUAL.

CONCRETE :

DESIGN AND CONSTRUCTION ACCORDING TO ACI 318-19
- COMPRESSIVE STRENGTH AT 28 DAYS, f 'c= 2500 PSI MINIMUM.
- CEMENT TYPE II OR IV. W/C RATIO 0.45 BY WEIGHT FOR PIER AND CAISSON
- CONCRETE FOOTINGS SHALL BE POURED AGAINST UNDISTURBED EARTH.
- MAINTAIN A MINIMUM 3" CONCRETE COVER OVER ALL EMBEDDED STEEL.
- EXTEND CONCRETE FOOTING BELOW LOCAL FROST DEPTH REQUIREMENTS.

SOIL :

LATERAL SOIL BEARING PER IBC CLASS 4 TABLE 1806.2 (150 PSF/FT). MODIFIED PER SECTION 1806.3.4.

www.yjinc.com
P.O. BOX 802050
SANTA CLARITA, CA. 91380
TEL. (661)259-0700 FAX. (661)259-0900

SHEET TITLE:

LORIEN HARMONY HALL MONUMENT

DRN BY: J.J.	DATE LAST REVISED: Apr 07, 2026	PROJECT JOB # JTS_	69426_Lorien Harmony Hall Monument_Cedar Ln_Columbia MD.dwg		
CHK BY: T.J.	PROJ. START DATE: Apr. 6, 2026	REV. NO.	REV. DATE	REVISED BY	PROJECT LOCATION: LORIEN HARMONY HALL 6336 CEDAR LN. COLUMBIA, MD
REV BY: T.J.	SCALE: AS SHOWN	1	--/--/--	—	SHEET # 1 OF 1
PLOTTED BY: Gabriela	ON 4/7/2026 2:19:25 PM	2	--/--/--	—	

NOTE:

1. THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION SURVEY DIVISION, 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK, AT 992-2417 OR 992-2418.
2. THE NEW THERAPY CENTER TO BE SERVED BY AN INTERNAL PUBLIC WATER METER.

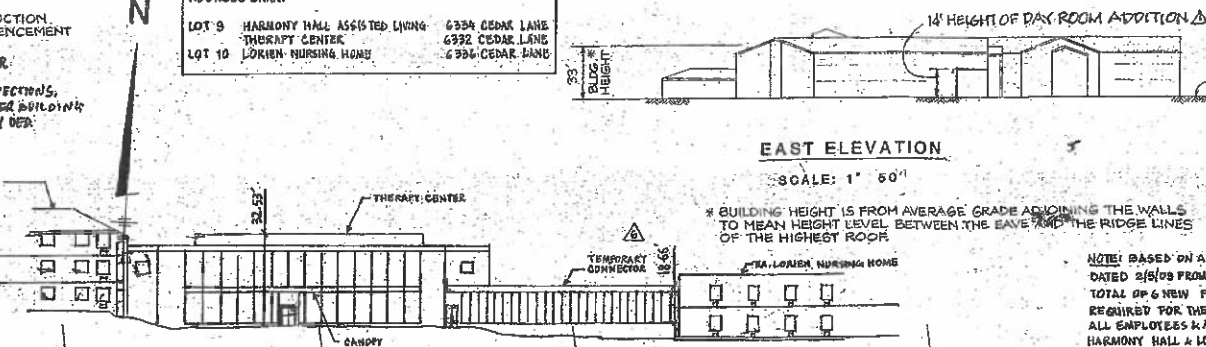
3. THE OWNER /DEVELOPER SHALL MAKE APPLICATION TO THE DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS FOR A BUILDING PERMIT FOR THE PROPOSED THERAPY CENTER BUILDING WITHIN ONE YEAR (1) FROM THE DATE OF APPROVAL OF THIS RED-LINE REVISION BY DED.

ADDITIONAL GENERAL NOTES ON SHEET 11.

4. ADVISORY: THE RED-LINE FOR THE ENTRANCE CHANGE MUST BE SUBMITTED TO THE DEPARTMENT OF INSPECTION, LICENSES AND PERMITS WITH 1-YEAR FROM THE DATE OF APPROVAL OF THE RED-LINE REVISION.
5. NO SIGN OR OTHER OBSTRUCTION IS TO BE ADDED TO THE CENTER ISLAND OF THE ENTRANCE.

ADDRESS CHART

LOT 9	HARMONY HALL ASSISTED LIVING THERAPY CENTER	6334 CEDAR LANE 6332 CEDAR LANE
LOT 10	LORIEN NURSING HOME	6334 CEDAR LANE



EAST ELEVATION
SCALE: 1" 50'

* BUILDING HEIGHT IS FROM AVERAGE GRADE ADJOINING THE WALLS TO MEAN HEIGHT LEVEL BETWEEN THE EAVE AND THE RIDGE LINES OF THE HIGHEST ROOF.

FRONT ELEVATION
NEW THERAPY CENTER
SCALE 1"=50'

NOTE: BASED ON A PARKING NEEDS STUDY DATED 2/5/09 FROM THE TRAFFIC GROUP, A TOTAL OF 6 NEW PARKING SPACES ARE REQUIRED FOR THE THERAPY CENTER SINCE ALL EMPLOYEES & MOST PATIENTS FROM THE HARMONY HALL & LORIEN COLUMBIA NURSING HOME FACILITIES W/ ONLY A MAX. OF 25 OFF-SITE PATIENTS PER DAY WITH AN AVG. OF 5 PATIENTS/HR. WILL BE USING THE REHABILITATION CENTER THAT WILL NEED ADDITIONAL PARKING.

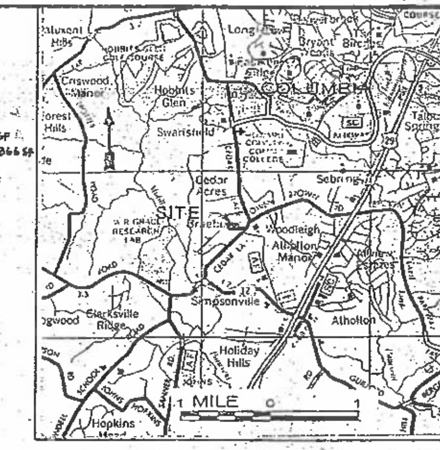
SITE ANALYSIS

1. AREA OF PARCEL: 12.286 AC.± 535,171 SF
2. PRESENT ZONING: POR (PLANNED OFFICE RESEARCH)
3. FLOOR SPACE:
   - A. BASEMENT: 9,332 SF
   - B. FIRST FLOOR: 62,040 SF
   - C. SECOND FLOOR: 49,856 SF
   - D. THIRD FLOOR: 49,856 SF

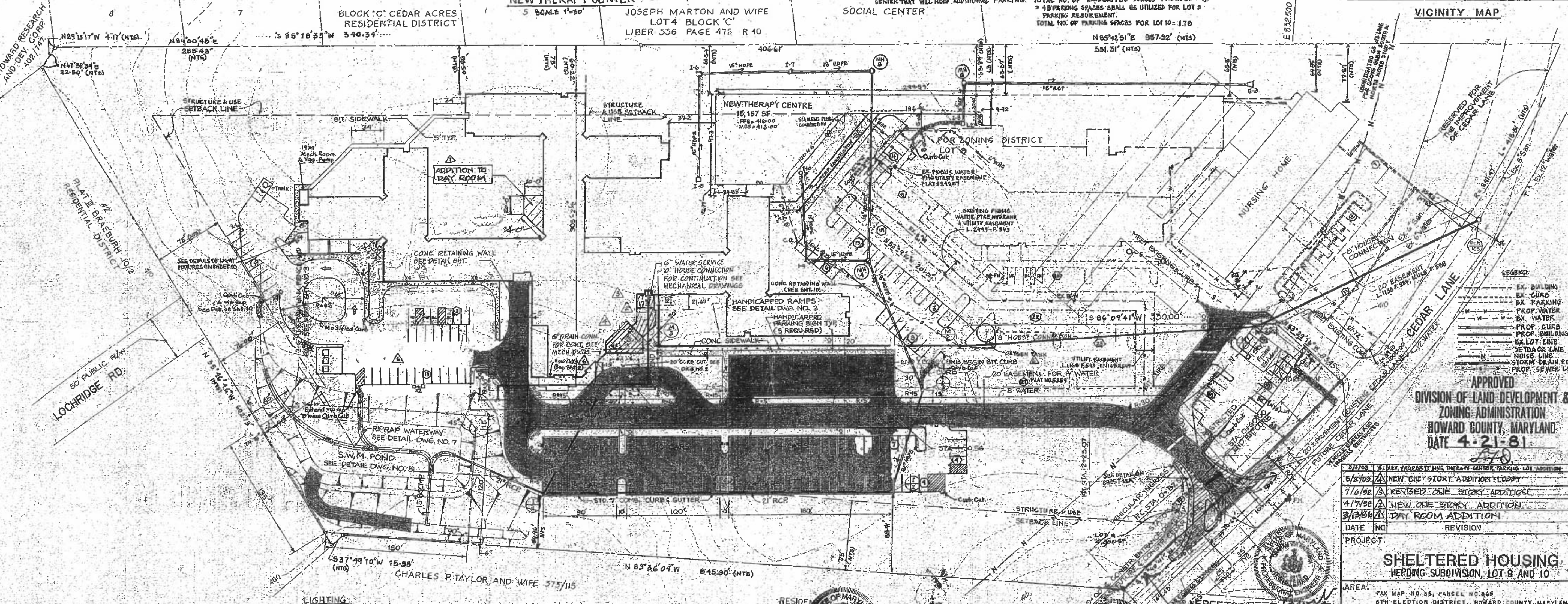
   THERAPY CENTER
   - A. GROUND FLOOR (POOL): 11,781 SF
   - B. GROUND FLOOR (CONNECTOR): 5,366 SF
   - C. MEZZANINE: 4,275 SF
   - D. TOTAL FLOOR AREA: 18,432 SF

   BUILDING COVERAGE: 77,197 SF± (14%)
4. OPEN SPACE: 6.9 AC.± (56%)
5. NUMBER OF UNITS: 275
   NO. OF VISITORS TO THERAPY CENTER: 25
6. NUMBER OF PARKING SPACES REQUIRED: 110 (2 FOR 5 UNITS)
   NO. OF PARKING SPACES REQUIRED FOR THERAPY CENTER: 6
7. NUMBER OF PARKING SPACES PROVIDED: 226
8. NUMBER OF STAFF SERVICE EMPLOYEES: 35

NO. OF EXISTING PARKING SPACES = 168
NO. OF EXISTING PARKING SPACES TO BE REMOVED = 5
NO. OF PROPOSED PARKING SPACES = 55
TOTAL NO. OF PARKING SPACES PROVIDED = 226
TOTAL NO. OF HANDICAPPED SPACES PROVIDED = 7
* 48 PARKING SPACES SHALL BE UTILIZED FOR LOT 9 PARKING REQUIREMENT.
TOTAL NO. OF PARKING SPACES FOR LOT 10 = 178



VICINITY MAP



PLAN
SCALE: 1" 60'

LIGHTING:
(6) 25' POLE-MOUNTED SHARP-ANGLE CUT OFF FIXTURE (LAMP SIZE 75 W Hg)
NOTE: ALL EXTERIOR LIGHTING SHALL BE DIRECTED/REFLECTED AWAY FROM ADJACENT RESIDENTIALLY ZONED PROPERTIES AND PUBLIC RIGHT-OF-WAY.

LIGHT FIXTURE NOTES:

1. THE LIGHT FIXTURES WILL HAVE SHIELDS AS REQUIRED BY ZONING REGULATIONS, SECTION 134.
2. LIGHT TRESPASS ONTO ADJOINING PROPERTY WILL NOT EXCEED 0.1 CANDLES AS REQUIRED BY ZONING REGULATIONS, SECTION 134.
3. SEE SHEET 10 FOR DETAILS OF LIGHT FIXTURES.

LEGEND FOR LIGHTING:

- X1 400 WATT HD LAMP WITH 30' POLE
- X2 DOUBLE 400 WATT HD LAMP WITH 30' POLE
- X4 175 WATT HD LAMP WITH 16' POLE
- X6 175 WATT WALL MOUNTED HD LAMP

PROPERTY LINE DATA

LINE	BEARING	DISTANCE
L1	N36°25'54"E	113.32'
L2	N86°09'29"E	92.29'
L3	N03°50'31"W	90.61'

INDEX TO DRAWINGS
(SITE DEVELOPMENT)

DWG. NO.	TITLE
1	LAYOUT AND UTILITY PLAN
2	GRADING PLAN
3	MISCELLANEOUS DETAILS
4	UTILITY PROFILES AND DETAILS
5	STORM WATER MANAGEMENT POND PLAN AND DETAILS
6	SEDIMENT CONTROL AND DRAINAGE AREA MAP
7	SEDIMENT CONTROL DETAILS-I
8	MAJOR TREE PLANTING AND SCREENING FOR PERIPHERY AREA AND PARKING AREA & FOREST CONSERVATION PLAN
9	SEDIMENT CONTROL DETAILS-II
10	SITE DETAILS
11	DETAIL PLAN - THERAPY CENTER & PARKING LOTS
11A	IMPROVEMENTS TO ENTRANCE - DETAIL PLAN
11B	TRAFFIC SIGNAL PLAN

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — 6-4-81 — DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — 6-4-81 — DATE
ACTING CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — 6-4-81 — DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — 6-4-81 — DATE
CHIEF, BUREAU OF ENGINEERING — 6/3/81 — DATE

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 4-21-81

DATE	NO	REVISION
8/3/09	5	REV. PROPERTY LINE, THERAPY CENTER, PARKING LOT ADDITION
5/2/05	4	NEW ONE STORY ADDITION - LOBBY
7/6/92	3	REVISED ONE STORY ADDITION
4/7/92	2	NEW ONE STORY ADDITION
3/13/86	1	DAY ROOM ADDITION

PROJECT: SHELTERED HOUSING
HERDING SUBDIVISION, LOT 9 AND 10

AREA: TAX MAP NO. 35, PARCEL NO. 365
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
FILE NO. F-81-095

TITLE: LAYOUT AND UTILITY PLAN

OWNER: NICHOLAS B. MANGIONE
1205 York Road
Lutherville, Maryland 21093

HERDING PROPERTY SUBDIVISION
RECORD PLAT NO. 21207
DEED REFERENCE: 741/82, 765/21

ENGINEERS: WHITNEY, BAILEY, COX & MAGNANI
CONSULTING ENGINEERS
Suite 311, Green Spring Station
2360 West Joppa Road
Lutherville, Maryland 21093
301-296-4200

DATE April 23, 1981
PROFESSIONAL ENGR. NO. 4039

DESIGNED BY	U.E.
DRAWN BY	S.R.
PROJECT NO.	616
DATE	8/22/80
SCALE	AS NOTED
DRAWING NO.	1 OF 11

SDP-81-36