



State of Utah

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Governor

GARY R. HERBERT
Lieutenant Governor

Department of Administrative Services

D'ARCY DIXON PIGNANELLI
Executive Director

Division of Facilities Construction and Management

F. KEITH STEPAN
Director

ADDENDUM

Date: 2 February 2006

To: Contractors

From: Rick James, Project Manager, DFCM

Reference: Utah Navajo Trust Fund
Monument valley Health Clinic

DFCM Project #: 05209470

Subject: **Addendum No. 1**

Pages	Addendum	1 page
	Architectural Program	122 pages
	Specification Index	6 pages
	<u>Addendum #1 Drawings</u>	<u>23 pages (large format)</u>
	Total Pages	152 pages

Note: This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

1.1 Reference the attached Architectural Program, Specification Index and Drawings.

End of Addendum



MONUMENT VALLEY CLINIC
PROGRAM
BLANDING, UTAH

SUBMITTED BY

EATON ARCHITECTURE



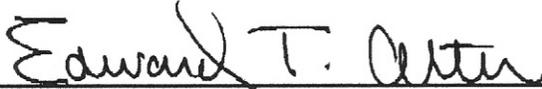
JANUARY 25, 2006

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MONUMENT VALLEY HEALTH CLINIC

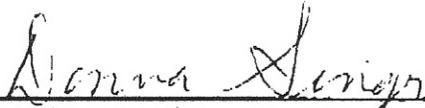
UTAH HEALTH SYSTEM, INC., BLANDING, UTAH
DFCM Project No. 05222300

Approvals



1-9-06

Edward Alter, Chairman
Utah Navajo Trust Fund



1-15-06

Donna Singer, Chief Executive Officer
Utah Navajo Health Systems



1-18-06

Manual Morgan, Chair
Utah Navajo Health Systems



1-9-06

Rick James, Project Manager
Division of Facilities Construction and Management



1-9-06

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**MONUMENT VALLEY HEALTH CLINIC
UTAH HEALTH SYSTEM, INC.
BLANDING, UTAH**

DFCM PROJECT No. 05222300

**PLANNING & DESIGN PROGRAM
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COST ESTIMATE

PROGRAMMING

for

MONUMENT VALLEY HEALTH CLINIC

UTAH NAVAJO HEALTH SYSTEM, INC.

BLANDING, UTAH

CONCEPTUAL NARRATIVE – SECTION 1

December 23, 2005

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architecture



MONUMENT VALLEY CLINIC

ARCHITECTURAL CONCEPT NARRATIVE

The Monument Valley Clinic (MVC) will serve a very large area of the Navajo Nation and will be run and administered by the Utah Navajo Health Systems Inc. The UNHS is in charge of several clinics within the Navajo Nation including Blanding Health Clinic, Montezuma Creek Health Clinic, Navajo Mountain Health Clinic and the present facility at Monument Valley.

Each of the above clinics has been established and fitted into an existing building remodeled for the functions of the clinic. The new Monument Valley Health Clinic will be the first of the UNHS clinics to be built to suit and as programmed from the ground up.

The proposed setting of the MVC, south of the Monument Valley High School is one of the more magnificent sites in the entire world and the vistas from the facility will be very grand. Monument Valley Tribal Park is visible to the east and the red rock buttes to the west south and north have little equal in visual beauty. It will therefore be incumbent upon the design of this facility to not detract from the surroundings and enhance the visual quality of the area if at all possible.

CLIENTELE

The new MVC will serve the Navajo population from as far south as Kayenta, Arizona, and as far north as Bluff, Utah. Since access to the east and west is limited the areas served cannot be realistically quantified, however suffice it to say the regions are vast and potential patients may be up to three hours away from the facility.

The Navajo are a proud and private people and their wishes to remain so extend particularly to personal matters with health being the primary personal concern. Privacy of the individual is of great importance within the confines and functions of any clinic facility and therefore the patient flow and functionality of the facility must greatly consider this aspect within the design and circulation of the clinic.

Although the clinic is open to anyone and may be frequented by those who may be visiting adjacent Monument Valley Tribal Park, the overwhelming majority of people taking advantage of the clinic facilities will be the Navajo and as such the cultural aspects of facility design must figure prominently into the layout and configuration of the facility. These cultural aspects will be discussed in more depth later. In summary, the building should reflect the culture of the Navajo.

SERVICES

The proposed MVC will provide a full range of medical services to the clientele of the facility and although the facility is being termed a clinic, the desire of all is to build a

facility with a building infrastructure that would allow future use as a hospital if required without major remodeling of the entire building.

These infrastructure requirements, in terms of the layout and configuration of the building are spelled out in the 2003 International Building Code as “Occupancies”. A normal medical clinic can be built as a “B” Occupancy facility, which allows certain hallway widths, door sizes, electrical services, etc. as opposed to building which will serve more as a hospital. This occupancy is categorized as an I Occupancy and will require enhanced corridor widths, expanded electrical capabilities, etc. that will extend the building limits and capabilities. The I Occupancy is defined by procedures that require an operating room and overnight patient care, and requires movement of a patient on a gurney and fire rated walls and doors for overnight patients.

The cost implications of meeting these upgraded requirements at this time are significant, but not overwhelming since the likelihood of a needed upgrade is better than average, it would follow that the added cost will be well worth it.

Services rendered by the clinic will be as follows:

- Dental including Orthodontics, Pedi-orthodontics, Dental Hygiene services
- General Clinical including diabetes education
- Emergency Treatment Facilities
- Diagnostic Facilities including X-ray, mammography, bone density testing, Ultrasound testing
- Laboratory facilities including blood and urine sampling and testing
- Full Service Pharmacy
- Physical Therapy treatment including exercise area to be utilized by staff and public
- Behavioral Health including individual and family health counseling areas

INFRASTRUCTURE

The infrastructure of the proposed building will be as up to date as technology will allow at this time and in this location. In addition to the medical infrastructure requirements, as discussed earlier, the building systems and technology infrastructure requirements will be an important part of the overall building design.

- First and foremost will be the Information Technology, which will enhance communications with the world from such a remote location as well as within the facility itself. State-of-the-art networking will allow for electronic record keeping thus, eliminating the need for space hungry file storage and retrieval systems. Wire distribution and management will also shape the configuration of facility and provide for ease of maintenance and expansion.
- Building heating and cooling will be a significant monthly expense. Electricity is available but extremely expensive. There is no natural gas to the area however propane is available from Kayenta, Arizona.

A proposal to utilize a ground source heat pump system for heating and cooling will be expensive to install but will over time pay for itself in terms of very low energy costs. The feasibility of this system is very high since there is land availability, however the overriding factor in the decision to utilize this system will be economic.

- Building materials particularly for the exterior walls must be studied with some thoroughness and with a very high regard for the surroundings of the facility. The predominance of the red sandstone and earth will generate many design possibilities for materials, colors, and textures. The surrounding buttes, cliffs and long vistas will help to shape the context of the exterior configuration.
- The building interior will be configured and finished to serve the cleanliness and maintenance requirements of the clinic in the most efficient and economical way possible. Enhanced finishes will be relegated to the waiting and administrative areas that will be visible by the public. Finishes that will be required to stand to more than normal abuse will be spelled out in the “Individual Space Outlines” that follow these narratives.

CULTURE

A dominant factor that, in addition to the surroundings, will shape the configuration of the building on the exterior as well as public spaces on the interior will be the unique character of the Navajo and their beliefs relative to the enclosure of space. The location of entrances to the east toward the rising sun is discussed further within the text of the program and the spiritual nature of the round form is significant to the sense of well being of the Navajo. Spaces are to have a continuum both horizontally and vertically with no interruption to the continuum or sharp corners within the space that are jarring to the senses. While the clinic cannot be economically constructed without square corners, the design team can pay homage to these cultural aspects within the important public areas of the building and by being attentive within all spaces to as many cultural aspects as possible.

ECONOMICS

Many factors will impact the building cost and will challenge the design team to be as efficient as possible to get the most building for the dollar amount available. These factors cannot be overlooked or taken lightly during the programming or the conceptual design of the project. It is very important that the square footage requirements as programmed be met if the facility is to meet the needs of the population into the foreseeable future. It is also important that the building be a quality addition to the landscape of such a magnificent area, reflect the surrounding landscape and colors, and be as true to the culture of the people served. The economic challenges will be the remoteness of the site and the willingness of constructors to do business in the area. Also challenging will be the rising cost of construction generally throughout the United States

and Utah. Costs should be tested and agreed to at every milestone of the design process and hard decisions made in order to meet the time and budget considerations.

The programmed size of the building (net square footage) has been a direct result of interviews with the facility users and administrators as to the desired/required square footage of the individual spaces, in depth discussions as to the numbers of each of the spaces and to the placement of each space within the individual department and the placement of the department within the overall configuration of the building.

We then applied a very subjective net to gross factor to the net SF and reached a preliminary conclusion as to the gross square footage of the building. Our preliminary read on the programmed net square feet was about 14,400 SF which, when factored by the net to gross number of .55 yielded a gross SF of 17,527.

Since the building had to be configured, in plan, for a preliminary meeting of the school district and since this was prior to the program being completed, we have utilized the proposed layout as our overall relationship plan within the program.

The proposed layout of the building has yielded a total square footage of 16,800 SF, which is slightly less than anticipated 17,956 Square Feet. This number will be tested as the schematic design progresses further.

We are anticipating the facility will cost about \$215-\$220/ SF, therefore yielding a projected overall building cost of \$3.6 M to 3.7 M. A cost estimate is attached.

MONUMENT VALLEY CLINIC CIVIL ENGINEERING PROGRAMMING STATEMENT

Civil Engineering Design Approach

Site Grading Design:

Based upon the concept site plan, existing topography, and recommendations contained in the geotechnical report, it is anticipated that the site grading can be designed in such a way as to balance the amount of excavation and fill to eliminate offhaul or import of material. The disturbed area of the site will be limited to the extents of the development.

Drainage Design:

All runoff generated by the site will be conveyed over the surface of the ground to an adjacent detention pond. The need for underground drainage piping is not expected. The pond will be designed per San Juan County standards to detain the required volume of the site's runoff and release it at the pre-development rate to the natural drainage course. With the detention in place, the adjacent properties downstream will not be impacted by the additional site runoff.

Water:

Culinary and fire protection water will be provided by the existing tank to the west. A new water main will be designed to meet the anticipated demand of the proposed facility.

Sewer:

Sanitary sewer service at the facility will be provided by an on-site septic system. Based on the existing soil conditions, a septic tank and drain field will be designed to accommodate the anticipated sewer demand.

MONUMENT VALLEY CLINIC STRUCTURAL PROGRAMMING STATEMENT

BASIS OF DESIGN:

1. GOVERNING BUILDING CODE.....	2003 IBC
2. LOAD COMBINATIONS:	
ALTERNATE ASD - GRAVITY AND LATERAL.....	1605.3.2
LRFD - LATERAL.....	1605.2.1
3. GRAVITY DESIGN:	
DEAD LOAD	
ROOF.....	25 PSF
SNOW LOAD	
GROUND SNOW.....	43 PSF
ROOF SNOW.....	33 PSF
Is.....	1.1
Ce.....	1.0
Ct.....	1.0
DRIFTING PER ASCE 7	
4. WIND DESIGN:	
WIND DESIGN PROCEDURE.....	SIMPLIFIED
BASIC WIND SPEED (3 SEC. GUST).....	90 MPH
EXPOSURE.....	C
Iw.....	1.15
COMPONENTS/CLADDING.....	-28 PSF +20 PSF
5. SEISMIC DESIGN:	
LATERAL SYSTEM.....	SHEAR WALL BUILDING
SEISMIC DESIGN PROCEDURE.....	EQUIVALENT
BUILDING CATEGORY.....	IV
SEISMIC USE GROUP.....	3
SITE CLASS.....	ASSUMED D
SEISMIC DESIGN CATEGORY.....	C
PORTION OF SNOW LOAD INCLUDED.....	20 %
EARTHQUAKE FORCE E/1.4.....	0.063 g
S _s CHART VALUE.....	0.282 g
S ₁ CHART VALUE.....	0.063 g
SDS.....	0.296 g
SD1.....	0.101 g

SITE COEFFICIENT Fa.....	1.57
SITE COEFFICIENT Fv.....	2.40
IE.....	1.50
R.....	5.0
OMEGA.....	2.5
Cd.....	3.5

6. SOILS:

SOIL BEARING PRESSURE.....TO BE DETERMINED
 MINIMUM FROST COVER.....30 INCHES

CONSTRUCTION TYPE:

Roof Framing Options:

1. The most likely option for the roof framing will be metal roof deck, open web steel joists, steel joist girders, and steel columns.
2. As an alternate, the roof framing could be plywood sheathing, manufactured wood joists, steel beams, and steel columns.

Wall Options:

1. The most likely option for the walls will be masonry shear and bearing walls used with the steel roof system.
2. The option used with the wood roof system would be wood stud walls with plywood wall sheathing.
3. As a third option, the exterior of the building could have steel columns with metal stud walls as an infill wall and a brick or Dryvit or equal exterior surface.

Lateral Force System:

1. Either of the bearing wall systems, wood or masonry, will be used to resist seismic and wind forces.
2. If the exterior column and infill wall system is used, the lateral strength would be provided by steel "X" braces.

Footings and Foundations:

1. Depending on the soils report, the footings will probably be reinforced concrete spot and continuous footings with reinforced concrete foundation walls with a minimum of 30 inches of frost protection for the exterior footings.

MONUMENT VALLEY CLINIC MECHANICAL PROGRAMMING STATEMENT

MECHANICAL SYSTEM FEATURES AND BENEFITS

The following illustrates the mechanical system features and benefits that we feel are beneficial to owner and client for longevity, energy efficiency and ease of maintenance.

A. **Geo Exchange Mechanical System**

The HVAC system we are proposing is an *innovative*, ground coupled, geothermal heat pump system. The water used to operate this *environmentally safe* system circulates through polyethylene pipes descending 300 feet into the ground and returning to the building heat pump systems. The design will carefully balance the energy exchange with the earth, resulting in negligible influence to the subterranean soil temperatures. The system will be remarkably *energy efficient*. Compared to a conventional, gas heating / dx cooling system, this geothermal system should achieve 50% cooling energy savings and 20% heating energy savings. Completing the picture, the system is essentially *maintenance free with filter replacement being the main maintenance requirement*.

B. **Mechanical Spaces**

All of the mechanical equipment is located either in mechanical rooms, closets, or above the ceiling. The space would be efficiency arranged to provide optimal access without using excessive amounts of square footage. Special care will be taken to insure that adequate equipment access is accommodated.

The mechanical spaces should be strategically located. They are best located near the areas they are serving. This reduces the length of duct runs, ceiling space requirements and improves energy efficiency by reducing the fan horsepower requirements.

C. **Energy Efficiency**

High efficiency heat pumps with high EER's and COP's would be selected for increased energy efficiency. The water circulation pumps would be selected at highly efficient points on their impeller curves. The short duct runs and return air plenums further reduce the fan horsepower requirements.

The ground loop boreholes will be grouted with thermally enhanced grout for improved heat transfer characters.

D. Comfort

Multiple heat pumps would be utilized to insure proper comfort control. Areas with differing heating, cooling and occupancy requirements have been zoned separately so that each area has optimal temperature control.

Multiple heat pumps also insure that the building zones will not be affected by a problem in another area.

The heat pumps should be selected to insure they do not overcool or over heat areas, but will maintain a steady, consistent temperature throughout the seasons.

E. Maintenance

Special care has been incorporated into the design to insure maintaining the heat pumps are easily achieved. The heat pumps are to be located with good access space. The filters are easily replaceable. Because they are water cooled, the heat pump compressors last longer. Ashrae lists the life expectancy of water-cooled heat pumps at 19 years.

A limited number of heat pump models would be utilized in the design. This eliminates the need to store a large variety of different filter sizes and parts. In addition, small capacity heat pumps could be used. Smaller heat pumps provide better temperature zoning than a few larger units. These small sizes are quieter and have higher EER's and COP's. Also, the small sizes are easily moved by a couple of men.

Filter replacement is the major maintenance requirement for geo exchange heat pumps. The heat pumps have been arranged to keep the filters easily accessible.

The DDC ATC control system allows remote monitoring and adjustments of the mechanical system. Either the ATC Company or the maintenance personnel have access to the DDC system via modem to facilitate management and control of the system.

The ground loop will be sized for adequate capacity for the entire cooling and heating loads. Supplementary boilers or fluid coolers will not be required.

G. Future Capacity:

The loop field, pumping and piping systems could be designed with extra capacity available for other buildings or for future additions. The extension of the mechanical systems for the future additions will be very easily achieved.

I. Soft Water

A duplex water softener will be provided to soften the domestic cold and hot water.

MONUMENT VALLEY CLINIC ELECTRICAL PROGRAMMING REQUIREMENTS

Site Lighting and Exterior Building Mounted Lights:

A combination of pole lights and building mounted lights will be used to provide adequate light levels for patrons using the facility. The light fixtures will be classified as full cut-off fixtures to conform to the Dark Skies issue. The shape, color of the fixture, and the color of the light will be selected to accentuate the shape and colors of the architecture.

Interior Building Lighting:

Interior building lighting will consist of a combination of fluorescent and incandescent sources selected to compliment the architecture and finishes of the building. Fixtures will be selected based on the lighting need and requirements of each space. However, fixture will be selected to create a calm and soothing atmosphere for the patrons using the facility. Lighting controls will be utilized to help minimize the energy consumption of the building. These controls will consist of switches, relays, and occupancy sensors. In all cases, the lighting control systems will be simple to understand and operate.

Electrical Distribution System:

Electrical power will be obtained from the new three phase overhead power lines (south of the property) that will be ran in the coming spring or summer. The feed to the property and the heath clinic will be installed underground to keep the site clean and clear of obstructions. The electrical service to the building will be a 120/208 volt, 3 phase, 4 wire system. The electrical distribution system will consist of a main distribution panel and a number of branch panelboards. The branch panelboards may be scattered around the building to bring to the power to the loads. Based on the final occupancy type for the building, an emergency electrical system (generator) will be installed. This system will supply emergency power to the emergency rooms, refrigerators and freezers, and critical systems (fire alarm, communication/data), etc.

Communication/Data/Television Systems:

A communication/data system will be installed consisting of a central IT communication/data rack with horizontal cabling out to the desk top and work stations. The system will support voice over IP. Television infra structure will be installed to allow for televisions in waiting rooms, dental spaces, etc.

Fire Alarm and Security Systems

A fire alarm system will be provided for the building and the extent will depend on whether the building will have a sprinkler system.

A card access system would be included to provide security to the employees of the health clinic. The main doors to the building would typically be set up with card access. However, locking interior doors can be set up to limit unwanted movement around the facility.

Special System:

A simple nurse intercom call system will be used for the nurse's station and examination rooms.

MONUMENT VALLEY CLINIC LANDSCAPE DESIGN PROGRAMMING STATEMENT

ENVIRONMENTAL CONDITIONS

- Theme** The overall theme of the project should reflect the surrounding environment in color, scale and texture. The use of indigenous plants is paramount.
- Spatial Definition** Consideration must be given to the mature landscape. The ultimate growth pattern and size of the plant materials used greatly affect the visual and spatial quality of the project. Maturity may not be evident for 20 years or more. In the mean time, the landscape continually changes and alters the views and spatial definitions.
- Visual** The adjacent landscape suggests a very minimal planting scheme that would not detract from the grandeur of the monumental buttes, the colors of the desert and unpolluted skies. This site can be seen from many miles in all directions and becomes a visual destination for the traveler. However, the visual impact of this site must not detract in anyway from the surrounding visual quality of this magnificent valley. Therefore, a “hide & reveal” scenario can provide a much more appealing approach to the site. A visitor can actually see their destination and feel comfortable about their approach as the actual architecture disappears from view and then is revealed again as the roadway makes a turn.
- Seasons** This “hide & reveal” scenario must take into account seasonal changes. The environment is 2 seasons - fall & summer. Spring is elusive, short lived and only evident when moisture is added, which may actually be anytime of the year. When the moisture falls, the desert plants go wild, with the longest lived effects in the low lying areas where the water accumulates and lingers, providing extended color and blooming.
- Water Efficiency** The plant materials must be water efficient and drought tolerant. The trees also must be efficient users of the available water. Although Cottonwoods and Willows are such prominent desert varieties, they have no place on this site. Even when artificial drainage basins are created or waterways are delineated, the water does not linger long enough to sustain trees of this nature. Shade is very desirable and must be acquired with trees that are in scale with the architecture and compatible with the available water supply, i.e. Morus alba - Fruitless Mulberry; Eleagnus angustifolia - Russian Olive; Robinia idahoensis - Idaho Locust; Juniperus monosperma - One Seed Juniper; Pinus edulis - Pinion Pine; Pinus monophylla - Single leaf Pine and Pinus ponderosa - Ponderosa Pine.

PLANT VARIETIES

- Xeriscape** By definition, xeros, Greek meaning “dry” and “landscape” for quality, water-efficient landscaping. Thus, the term “Xeriscape” coined in 1981 by a task force consisting of members of the Denver Water Department, Colorado State University, and the Associated Landscape Contractors of Colorado and is now the logo and trademark of the National Xeriscape Council, Inc. P.O. ox 767936, Roswell, GA 30076. “Let the outdoor environment you create echo the natural world of your region. Xerigraphic Landscaping, Water Conservation for the American Landscape, 1992.
- All of the plants must be considered “xerigraphic” as defined in Xerigraphic Gardening - Water Conservation for the American landscape by Ellefson, Stephens and Welch; Macmillian Publishing Company, New York, New York, 1992.
- Soil Quality** Typically the soils in this area are very sandy. Such soils release the water. Many plants do not tolerate these conditions and stress easily. The more the indigenous the plants, the more they tolerate this condition.

b r e n t m o r r i s a s s o c i a t e s

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Soil samples must be required for the soils left in place. These tests indicate the amount of organic matter and pH (salts) in the soils. It is easier to change the kinds of plants than amend all of the soils. If the soils are not consistent, water will not move through it consistently and dry spots or soggy spots will occur. The soils must be roto-tilled uniformly to a depth of 6 inches in two directions perpendicularly opposed.

WATER DISTRIBUTION

Irrigation System

The only water distribution system for the project must be "Drip". The lateral lines must be buried a minimum of 2 inches. The water must be filtered before entering the piping system. In order for the water to be distributed uniformly, the soils must be uniform in texture and quality, refer to the Soils.

The hours for water application of operation must be limited to the nighttime application to reduce water waste caused by evaporation.

Hydraulics

The size of the mainline, the size of all lateral lines and circuit branches must be matched to the new water system that is being installed on the area. This new system will be a gravity flow system and the pressure will be minimum, probably 30 pounds per square inch.

MAINTENANCE

Level of Maintenance

The newly planted areas require weekly monitoring. A system of monitoring, reporting and repairing must be established. It is during the first 90 days after the project is complete that require the most intense monitoring. This establishment period will determine the outcome of the project.

Once the plants become established, approximately 2 growing seasons, then consideration can be given to completely turning off the irrigation system. The system should be left in place and exercised twice yearly to insure its integrity, but used only to supplement the natural rainfall as required.

Training

Knowledge of the plants growth habits, the irrigation systems operations and most important the amounts of water and nutrients required will determine the overall appearance of the landscape. Of all the elements that cause a landscape scheme to fail, it is the application of water. This element must be closely monitored. It can be assumed that the controller will provide water to the irrigation system, but is their enough or too much water being applied? A weekly investigation by a person in the field is essential.

Because the drip system is out of sight, it cannot be monitored without out digging holes, removing the bark mulch or testing with a probe. By the time the plants indicate a problem, it is usually too late for recovery and replacement is the only option.

There needs to be a "Maintenance Period" provided by the landscape contractor for 60 - 90 days. The guarantee period is to be for 1 year. This involves replacements, insect control, etc.

RECOMMENDATIONS

1. Use indigenous plant materials.
2. Design with a "Hide & Reveal" approach to add a visual interest to the project.
3. Provide compatible colors and textures throughout the entire landscape palette.
4. Use less shrub type materials and more trees. Trees are in keeping with the scale of the architecture. They provide the necessary shade to cool the reflected heat from the hardscape areas and are the only living entities with enough longevity matches the life cycle of the project.

b r e n t m o r r i s a s s o c i a t e s

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bma

PROGRAMMING

for

MONUMENT VALLEY HEALTH CLINIC

UTAH NAVAJO HEALTH SYSTEM, INC.

BLANDING, UTAH

INDIVIDUAL SPACES – SECTION 2

December 23, 2005

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architecture

MONUMENT VALLEY CLINIC

DEPARTMENT SPACES SUMMARY

ADMINISTRATION

Waiting Room	920 Square Feet
Administrative Offices	520 Square Feet
Conference Room	430 Square Feet
Break Room	400 Square Feet
Clinic Manager Office/Conf Room	140 Square Feet
Work Room	185 Square Feet
Visiting Administrator Office	80 Square Feet
State Medicaid Office	100 Square Feet
Materials Management Area	530 Square Feet
Locker Room	100 Square Feet
Old Medical Records Storage	200 Square Feet

Department **3605 Total Square Feet**

INFORMATION TECHNOLOGY

Computer Room	100 Square Feet
---------------	-----------------

Department **100 Total Square Feet**

DENTAL

X-ray Room	115 Square Feet
Sterilization - 6' x 6'	36 Square Feet
Storage Room -	90 Square Feet
Equipment Room	50 Square Feet
Dentist offices (2) each/100 Square Ft	200 Square Feet total
Laboratory	110 Square Feet
Dark Room	40 Square Feet
Ancillary Waiting	140 Square Feet
Operatory	1820 Square Feet

Department **2601 Total Square Feet**

EMERGENCY TREATMENT ROOMS

Treatment Rooms	
(2) each 250 Square Feet	500 Square Feet total
Treatment Room Storage	100 Square Feet

Department **600 Total Square Feet**

GENERAL CLINIC

Provider's Offices

(3) 10'x10'/100 Square feet Diabetes Offices	300 Square feet total
(2) 100 Square feet Nurses Station - Exam Rooms	170 Square feet total 140 Square feet
(7)60 Square Feet Diabetes Educator- Utility Room	420 Square feet total 80 Square feet 64 Square feet
Screening Rooms (3)40 Square feet Storage Room	120 Square feet total 60 Square feet
Department	1,354 Total Square Feet

LABORATORY

Laboratory 300 Square Feet

Department 300 Total Square Feet

BEHAVIORAL HEALTH

Counselor Office - 110 Square feet
Family Counseling Room 180 Square feet
Individual Counseling Room 120 Square feet

Department 410 Total Square Feet

PHARMACY

Pharmacy 350 Square Feet
Storage Room - 6'x6' 36 Square Feet

Department 456 Total Square Feet

PHYSICAL THERAPY

Therapy Room 400 Square Feet
Exercise Room 400 Square Feet

Department 800 Total Square Feet

RADIOLOGY / DIAGNOSTICS

X-ray Room 250 Square Feet
Ultrasound Room 160 Square Feet
Mammography Room 100 Square Feet
Bone Density Room 130 Square Feet
Processor Room 45 Square Feet
Dark Room 40 Square Feet

Department

725 Total Square Feet

BUILDING NET SF TOTAL

10,881 TOTAL NET SQUARE FEET

Apply net to gross factor = .65

16,800 SF Total

DEPARTMENT: ADMINISTRATION

DEPARTMENT HEAD: Dennis Hammond

SCOPE:

The scope of this project area includes all aspects of patient/administrative staff interaction prior to any medical treatment. The programming of the waiting area will have a large impact on the design and therefore the success of the facility with the Native American population. While an attempt will be made to create a clinic that reflects, throughout, the native culture, the largest impact on the patients will be the first impression upon entering the building and feeling comfortable within the environs of waiting, check-in and departing of the facility.

Of primary importance will be the privacy of the patient during check-in, registration, and account settlement. Therefore, these functions must be at least somewhat separate from the waiting area while remaining a part of the overall area.

Administratively, the staff must be minimized and all staff will be required to serve as receptionist, records keeper, and all other functions that occur at the front desk.

Other key aspects of this function will be offices for various "out of clinic" officials as well as billing and coding for office visits, Conference/Boardroom and other meeting needs

KEY RELATIONSHIPS

The administrative and particularly the waiting area will be the central hub of the entire clinic. All Departments must be access able from this hub location without transiting any other department. It will be important that all departments be easily identified and that accessibility be as direct as possible for patient flow. It is important the initial patient interaction with staff occur in the least possible intimidating way and yet preserves the sense of privacy that will be of major importance to the client/patient. The challenge will be great to provide for the meeting of culture and efficient medical business practices in this area of the facility.

Areas that must relate to the waiting area will be the dispensing window and the education/counseling nook for the pharmacy.

Ease of way finding and the transition of the ambiance of the waiting area to the medical area of clinic will also be culturally challenging to the design and architecture of the project.

Efficiency for the staff will also be of paramount importance to the overall success of the design effort

SITE IMPLICATIONS AND REQUIREMENTS

As per our understanding of Native American Culture the entrance will face east into the morning sun and will symbolize the spiritual nature and the welcoming aspect of the round form. It will therefore be given that patient parking will be to the east of the facility. The natural grade continuing to the east will be challenging in achieving a moderate slope to the door. However it will work for the visual prominence of the facility from the main highway that will border the east side of the property.

GENDER IMPLICATIONS

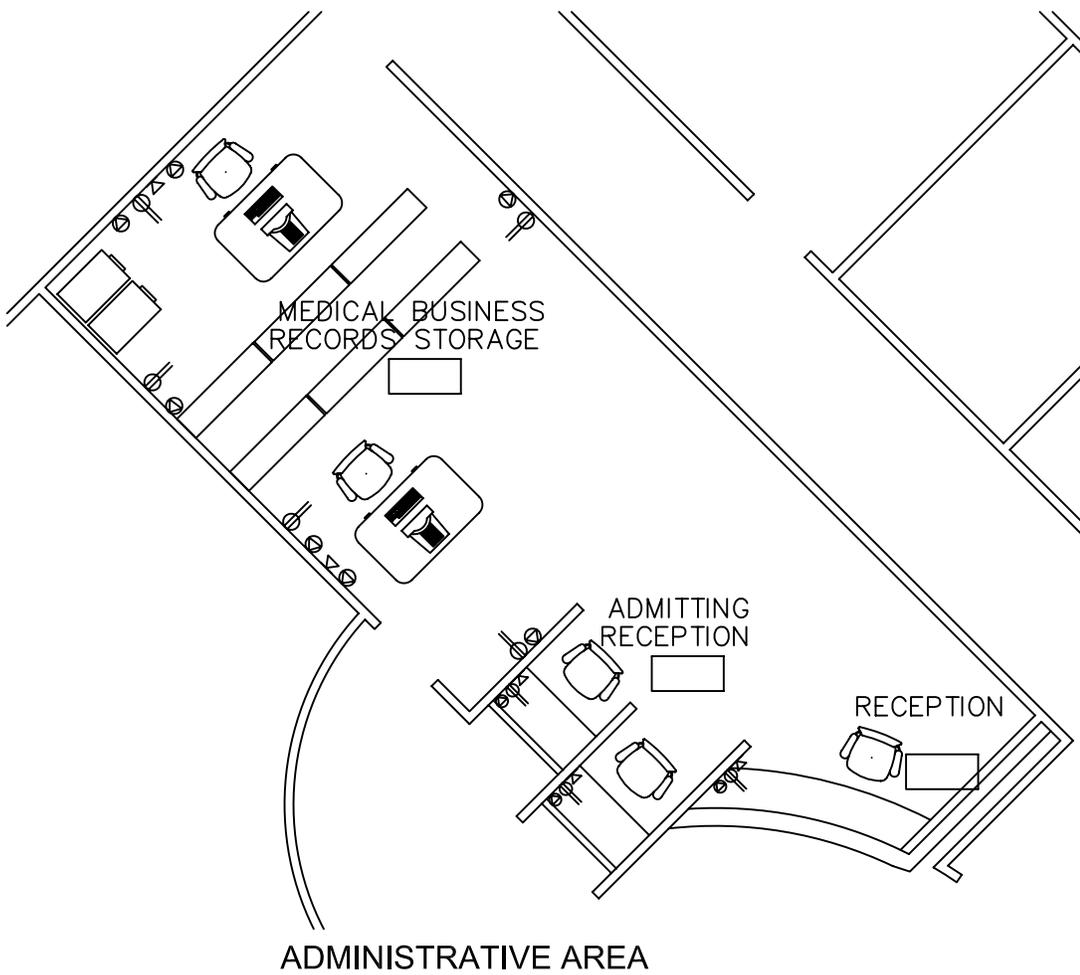
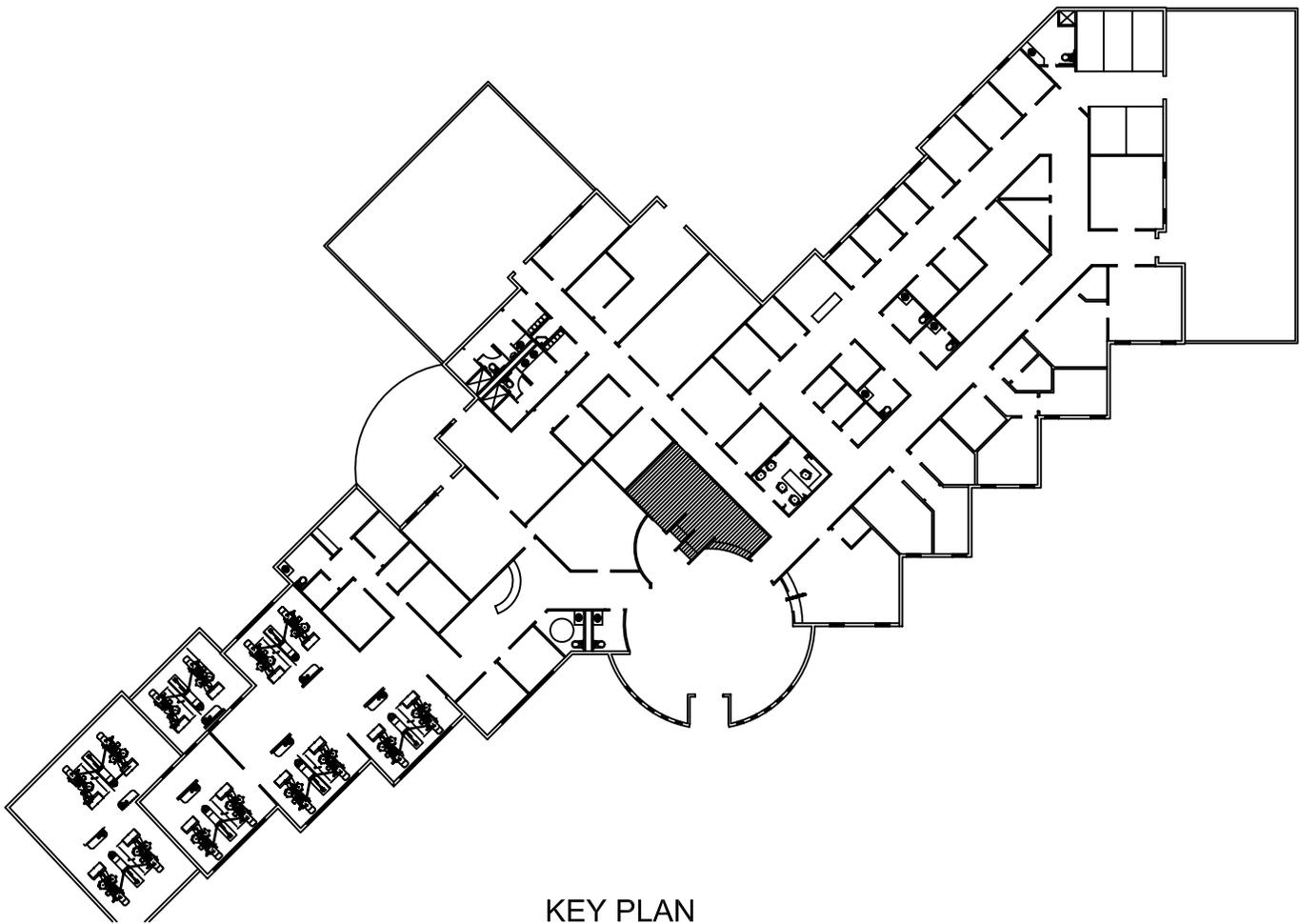
None

OTHER REQUIREMENTS

INDIVIDUAL SPACES / ROOMS

Waiting Room	920 Square Feet
Administrative offices	520 Square Feet
Conference Room	430 Square Feet
Break Room	400 Square Feet
Clinic Manager Office/Conf Room	140 Square Feet
Work Room	185 Square Feet
Visiting Administrator Office	80 Square Feet
State Medicaid Office	100 Square Feet
Materials Management Area	530 Square Feet
Locker Room	100 Square Feet
Old Medical Records Storage	200 Square Feet

REMARKS:



LEGEND	
	Telephone Jack
	110 V Outlet
	Data Outlet
	Pneumatic Outlet
	Quad 110v Outlet
	CCTV Outlet

DEPARTMENT: ADMINISTRATION

ROOM NAME: WAITING ROOM

AREA REQUIRED: 920 Square Feet - Area for 40 waiting patients

FUNCTION: Waiting area and check-in for new and returning patients to the facility. This area will be the most important space to the acceptance of the facility by the surrounding populace. Waiting area will seat up to 40 with children's play area and feature built-in high Def TV. Wall décor and surrounding seating should reflect quality native American and southwest art in the form of paintings, sculpture and artifacts. The architecture of the waiting room should reflect the spectacular nature of the Monument Valley setting and provide a place of refuge and welcome to the patient clientele with a doorway that faces the East.

ADJACENCIES: Parking, Check-in, Records, Pharmacy dispensing and counseling nook

SECURITY CONSIDERATIONS: Lockable cabinetry and records area

ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements.

ARCHITECTURAL REQUIREMENTS

FLOORS: Carpet / ceramic tile

WALLS: Ptd gyp brd; decorative wall surface

CEILING: Decorative ceiling, natural color

CEILING HEIGHT: 12'-14'

DOORS: Decorative (2) 3'x7' metal entry doors with glass; records, billing and coding security roll-up; counter door at pharmacy

WINDOWS: Very desirable to exterior

SOUND CONSIDERATIONS: Sound dampening within space

FIXED EQUIPMENT: High definition wall mtd. TV

MOBILE EQUIPMENT: Children's play equipment

FURNISHINGS: 40 waiting chairs designed to reflect southwestern art and design.

ENGINEERING REQUIREMENTS

MECHANICAL: Negative pressure w/full air exchange HVAC

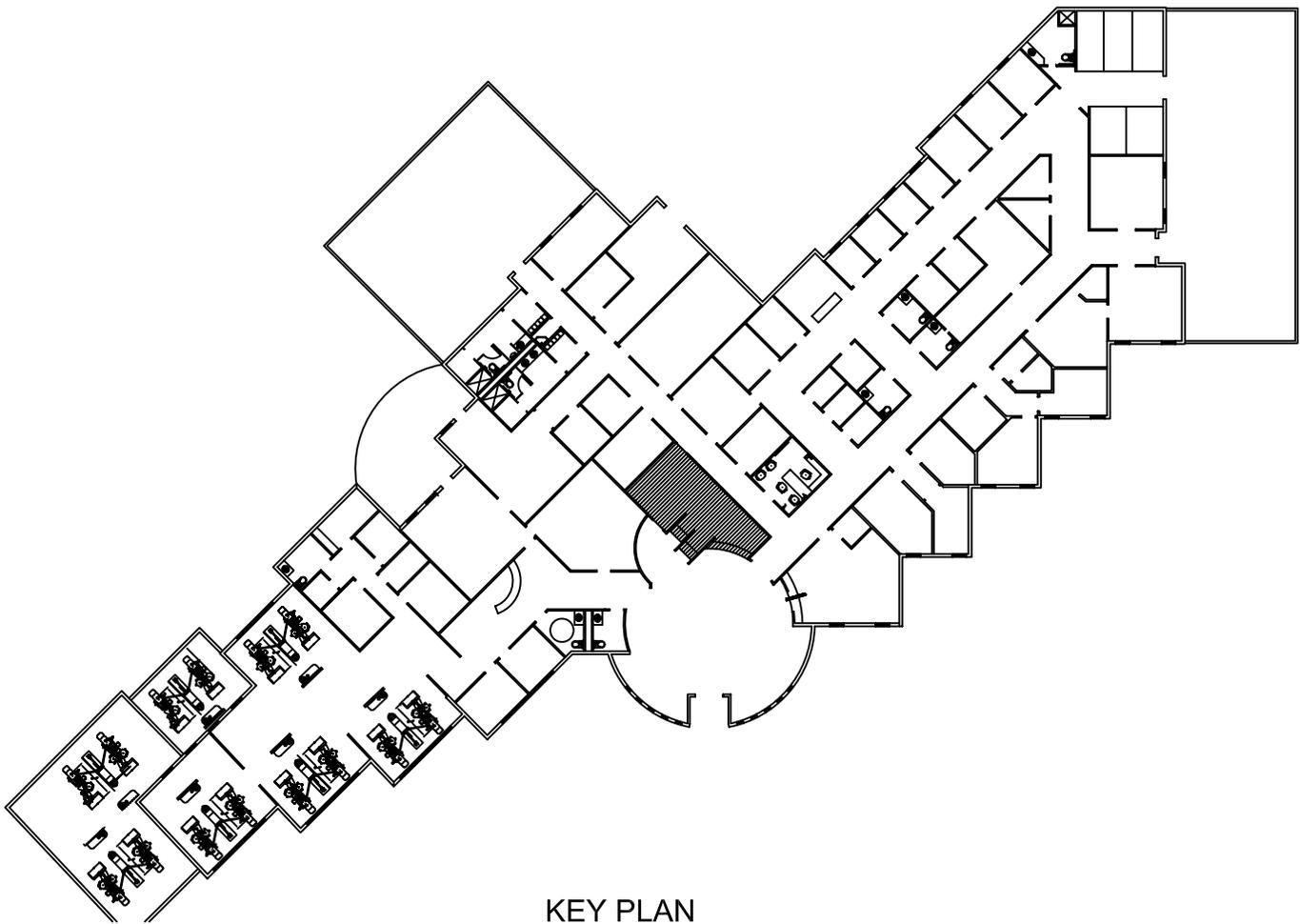
PLUMBING: None

ELECTRICAL: 120 volt power

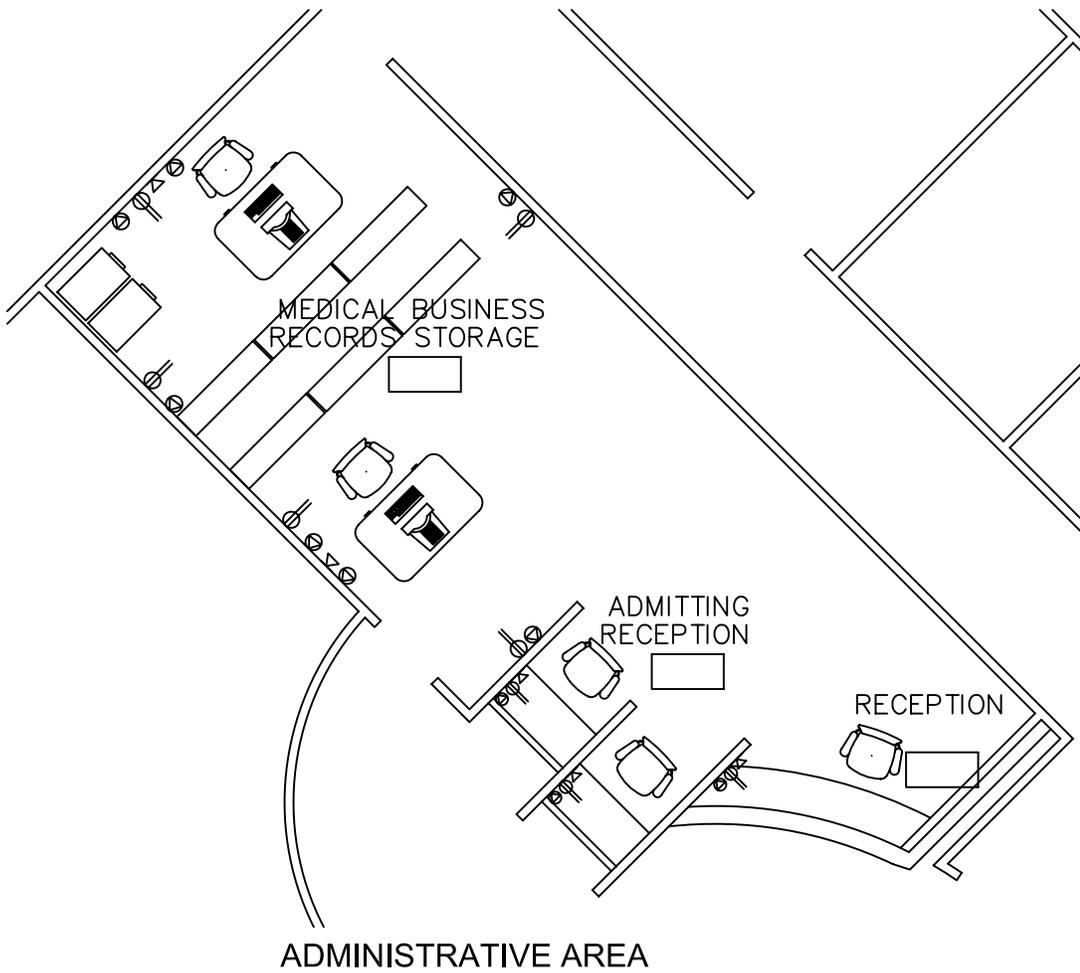
LIGHTING: Indirect of decorative fluorescent ambient lighting with incandescent accent lighting

COMMUNICATIONS: Multi-line telephone at receptionist counter

COMPUTER: Data line outlet at each wall and at receptionist counter



KEY PLAN



ADMINISTRATIVE AREA

LEGEND

-  Telephone Jack
-  110 V Outlet
-  Data Outlet
-  Pneumatic Outlet
-  Quad 110v Outlet
-  CCTV Outlet

DEPARTMENT: ADMINISTRATION

ROOM NAME: ADMITTING/RECEPTION (2 staff)

AREA REQUIRED: 100 Square Feet

FUNCTION: Countertop and desk function for primary greeting and admitting of patients; screened off and sound dampened double-sided built-in desk cabinet for 2 staff.

ADJACENCIES: Waiting Room, Medical Records storage; Billing and coding area

SECURITY CONSIDERATIONS: Lockable cabinet doors; lockable sliding or rolling gate partition

ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements.

ARCHITECTURAL REQUIREMENTS

FLOORS: Carpet

WALLS: Ptd gyp brd; sound absorbing panels

CEILING: 2'x4' suspended lay-in acoustical

CEILING HEIGHT: 10'

DOORS: 3'x7' SC wood door as/if required; rolling grille

WINDOWS: Very desirable to exterior

SOUND CONSIDERATIONS: Sound dampening walls on each side of desk area to contain sound within counter area.

FIXED EQUIPMENT: Built-in desk

MOBILE EQUIPMENT: Computers as req.

FURNISHINGS: (2) chairs per admissions desk; chair and desk for records

ENGINEERING REQUIREMENTS

MECHANICAL: Standard HVAC

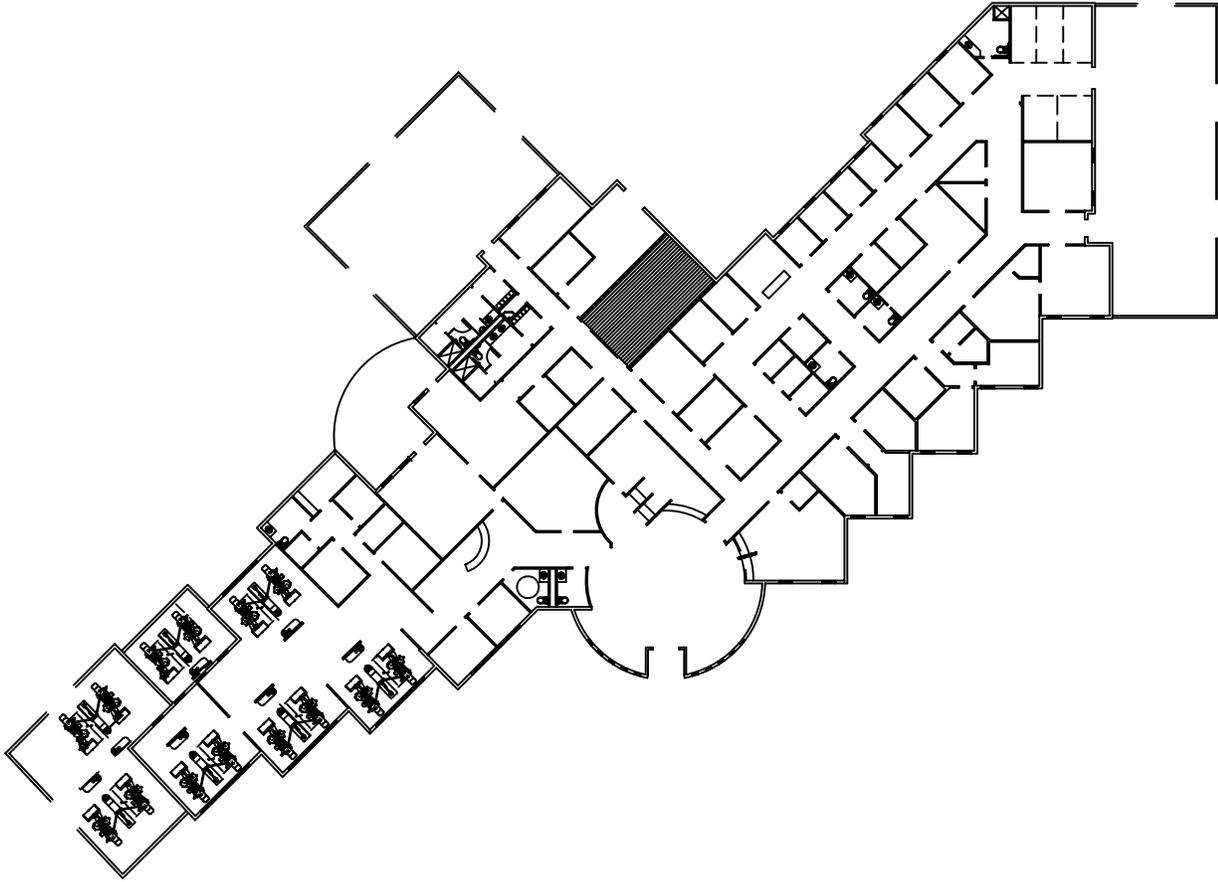
PLUMBING: None

ELECTRICAL: 120 volt power

LIGHTING: Fluorescent task lighting at desktop and florescent ambient lighting

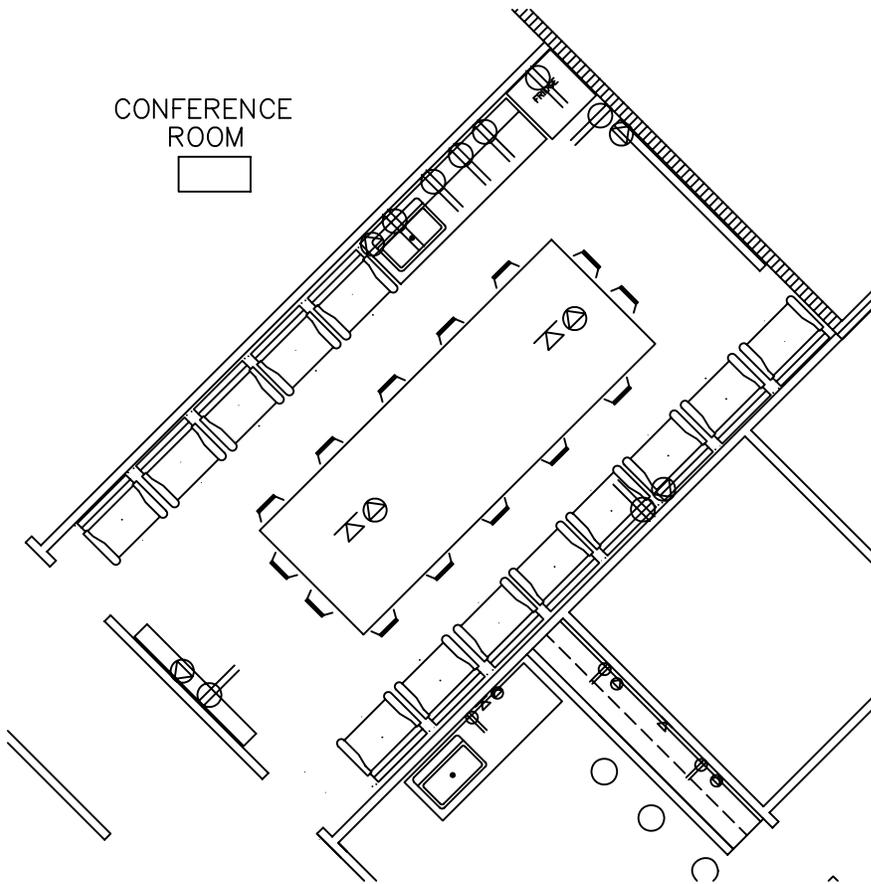
COMMUNICATIONS: (2) Multi-line telephones

COMPUTER: (3) (4) data line outlets in adjacent walls or in floor box outlets



KEY PLAN

CONFERENCE ROOM



CONFERENCE ROOM

LEGEND

-  Telephone Jack
-  110 V Outlet
-  Data Outlet
-  Pneumatic Outlet
-  Quad 110v Outlet
-  CCTV Outlet

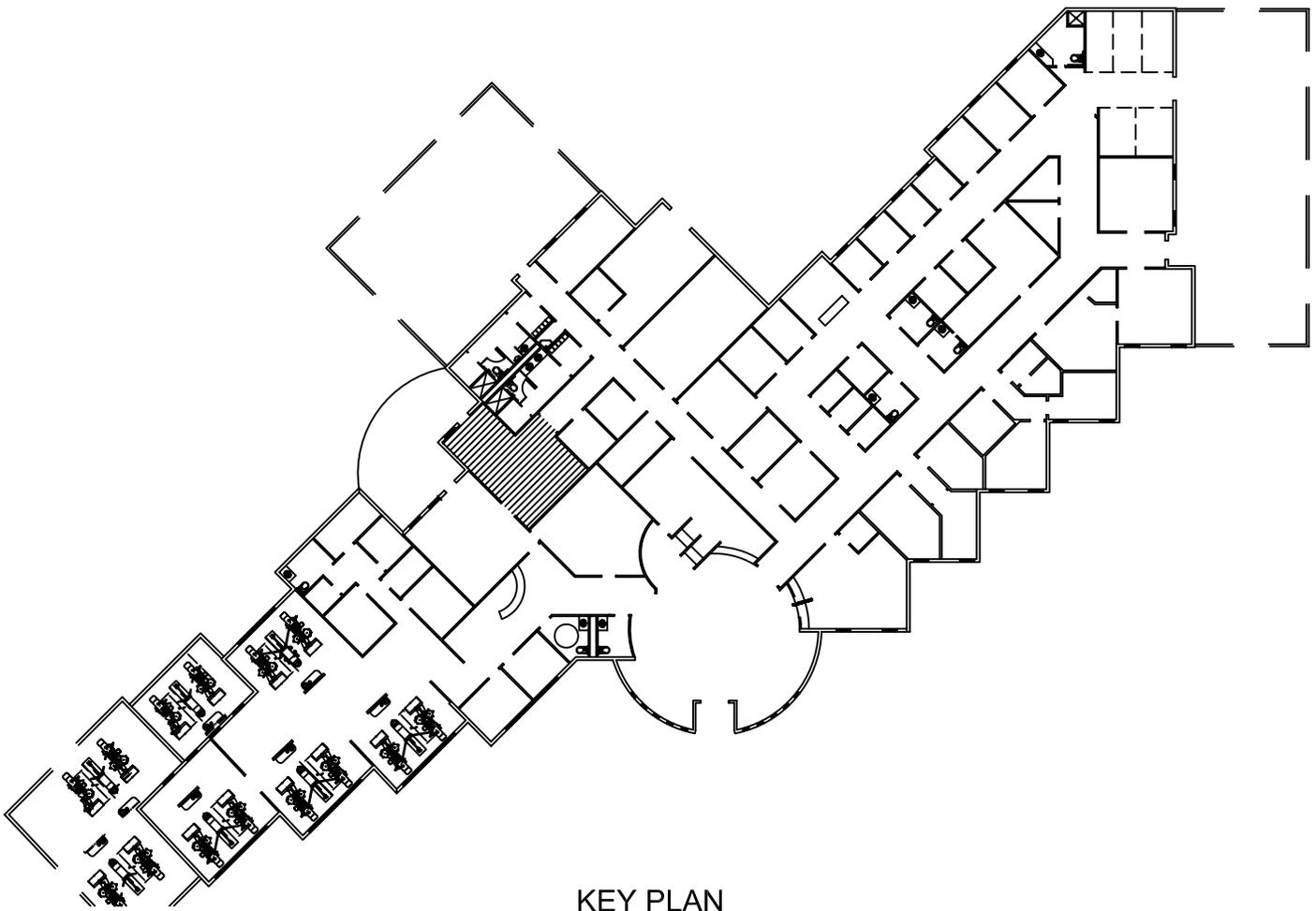
DEPARTMENT: ADMINISTRATION
ROOM NAME: CONFERENCE ROOM
AREA REQUIRED: 430 Square Feet
FUNCTION: Conference room for 35 or 40 people
ADJACENCIES: Corridor access to Administrative and Reception area
SECURITY CONSIDERATIONS: None
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements

ARCHITECTURAL REQUIREMENTS

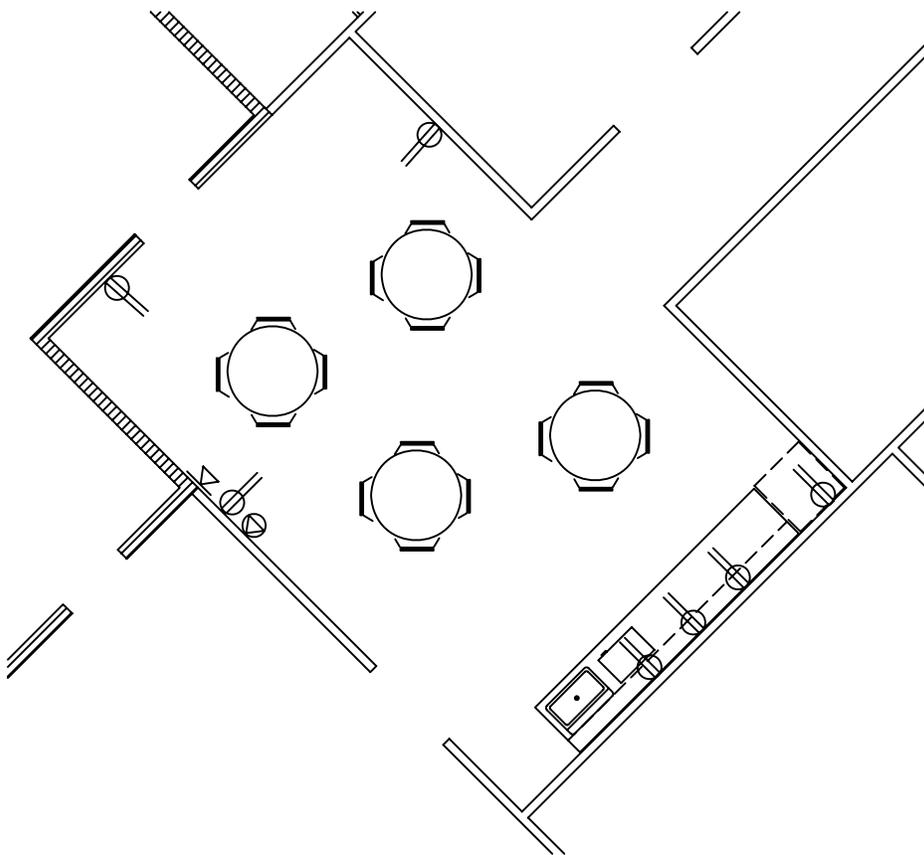
FLOORS: Carpet
WALLS: Ptd gyp brd; 6" hardwood chair rail at 36" aff; accent wall with special wall covering or paint
CEILING: 2'x4' suspended lay-in acoustical
CEILING HEIGHT: 12'
DOORS: 3'x7' SC wood door as/if required
WINDOWS: Very desirable to exterior
SOUND CONSIDERATIONS: Sound dampening within space
FIXED EQUIPMENT: Built in AV area with suspended projector. 72" wide motorized fully recessed, roll down screen
CNTRS & CASEWRK 8' base cabinet and countertop; SS sink w/ wing handle faucet at one end of room
MOBILE EQUIPMENT: None
FURNISHINGS: 16' Conference room table w/ chairs for 35; 8' tack / white board

ENGINEERING REQUIREMENTS

MECHANICAL: Standard HVAC
PLUMBING: 18"X 24" SS sink in counter top
ELECTRICAL: 120 volt power; at counter top; (4) Circuits for serving counter
LIGHTING: Fluorescent ambient lighting; decorative light over conf. rm table
COMMUNICATIONS: (2) Multi-line telephone w/floor mounted jack below conference room table
COMPUTER: (2) Data line outlet w/ floor mounted jack below table; wall mounted data jack on each wall



KEY PLAN



BREAK ROOM

LEGEND	
	Telephone Jack
	110 V Outlet
	Data Outlet
	Pneumatic Outlet
	Quad 110v Outlet
	CCTV Outlet

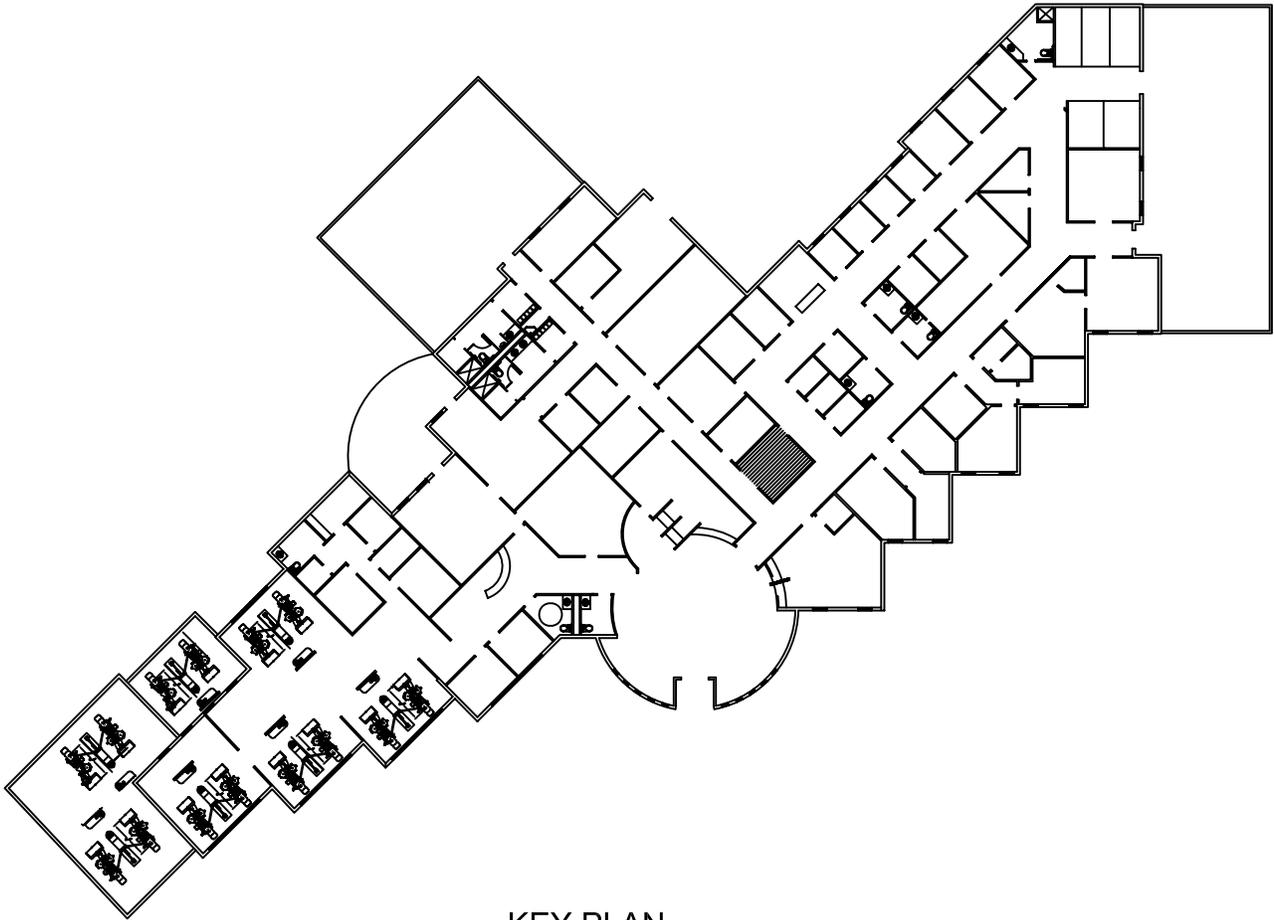
DEPARTMENT: ADMINISTRATION
ROOM NAME: BREAKROOM
AREA REQUIRED: 400 Square Feet
FUNCTION: Break room for entire staff of the clinic
ADJACENCIES: Corridor access to Administrative and Reception area, direct access to staff locker room and restrooms, exterior access to patio.
SECURITY CONSIDERATIONS: None
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements

ARCHITECTURAL REQUIREMENTS

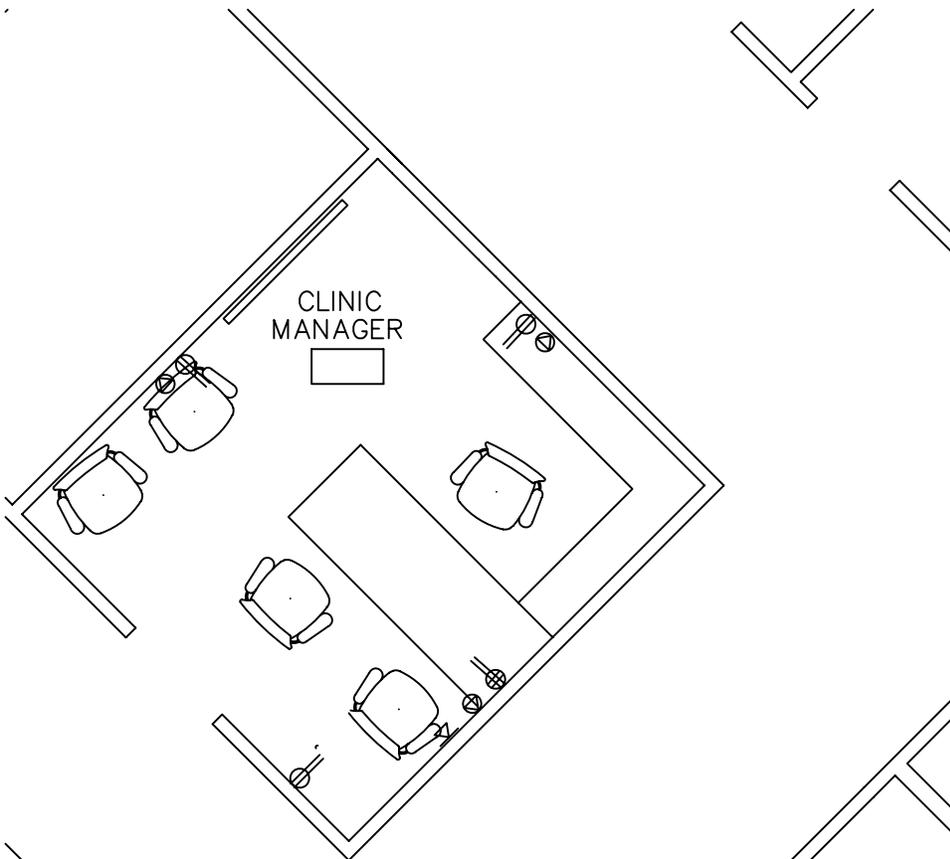
FLOORS: VCT
WALLS: Ptd gyp board
CEILING: 2'x4' suspended lay-in acoustical
CEILING HEIGHT: 9'
DOORS: 3'x7' SC wood door as/if required
WINDOWS: Very desirable to exterior
SOUND CONSIDERATIONS: Sound dampening within space
FIXED EQUIPMENT:
CNTRS & CASEWRK 12 + Base cabinet w/corion countertop and upper cabinets
MOBILE EQUIPMENT: 12 cu. ft. refrigerator
FURNISHINGS: (4) 36" diameter tables with (4) chairs each

ENGINEERING REQUIREMENTS

MECHANICAL: Standard HVAC
PLUMBING: 18"X 24" SS sink in counter top
ELECTRICAL: 120 volt power at counter top; Single circuits for each kitchen appliance and each countertop outlet
LIGHTING: Fluorescent ambient lighting
COMMUNICATIONS: (1) Multi-line telephone wall mounted
COMPUTER: (1) Data line outlet wall mounted.



KEY PLAN



CLINIC MANAGER

LEGEND	
	Telephone Jack
	110 V Outlet
	Data Outlet
	Pneumatic Outlet
	Quad 110v Outlet
	CCTV Outlet

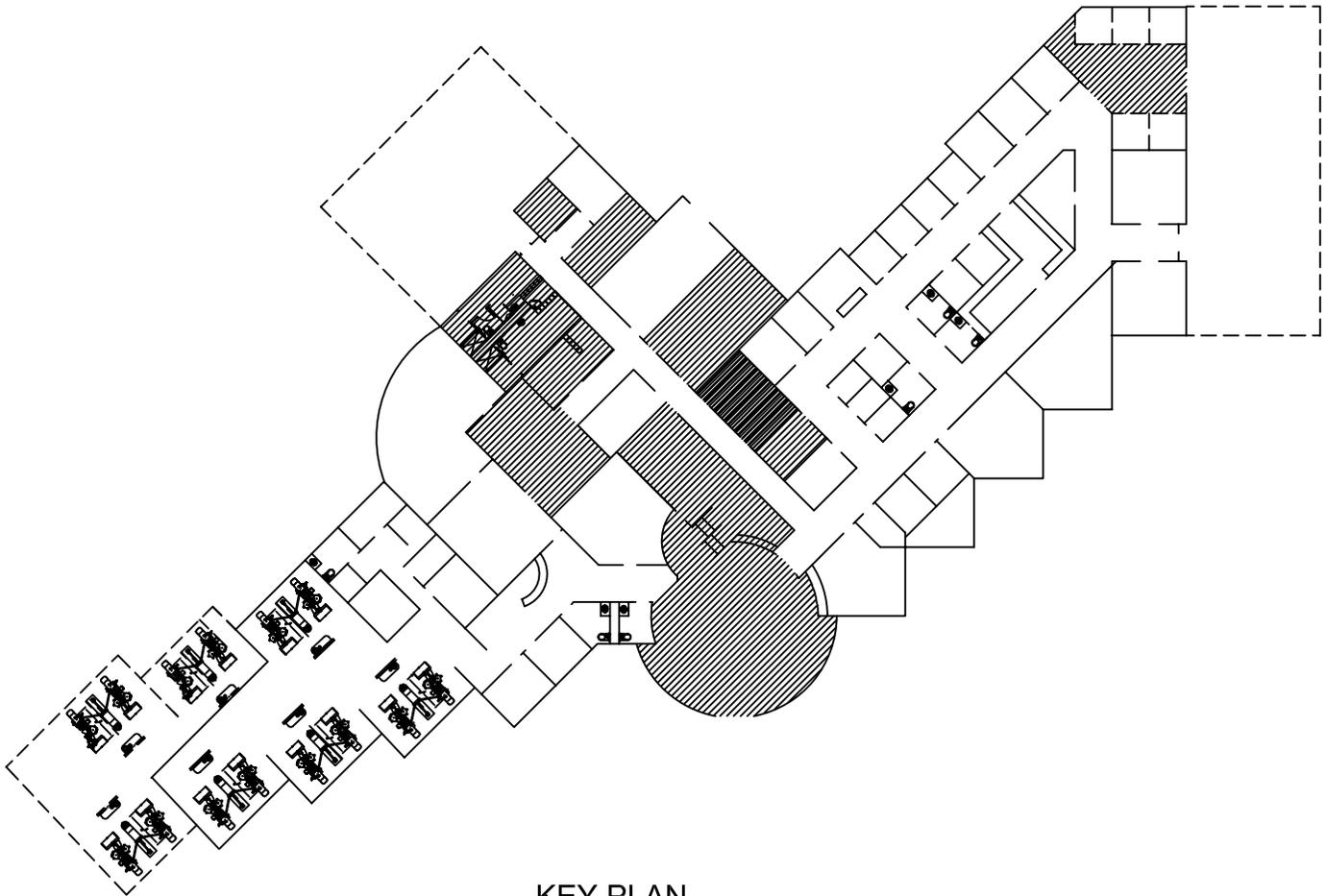
DEPARTMENT: ADMINISTRATION
ROOM NAME: CLINIC MANAGER
AREA REQUIRED: 140 Square Feet
FUNCTION: Office area for clinic manager
ADJACENCIES: Close corridor access to administration
SECURITY CONSIDERATIONS: Lockable door
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements

ARCHITECTURAL REQUIREMENTS

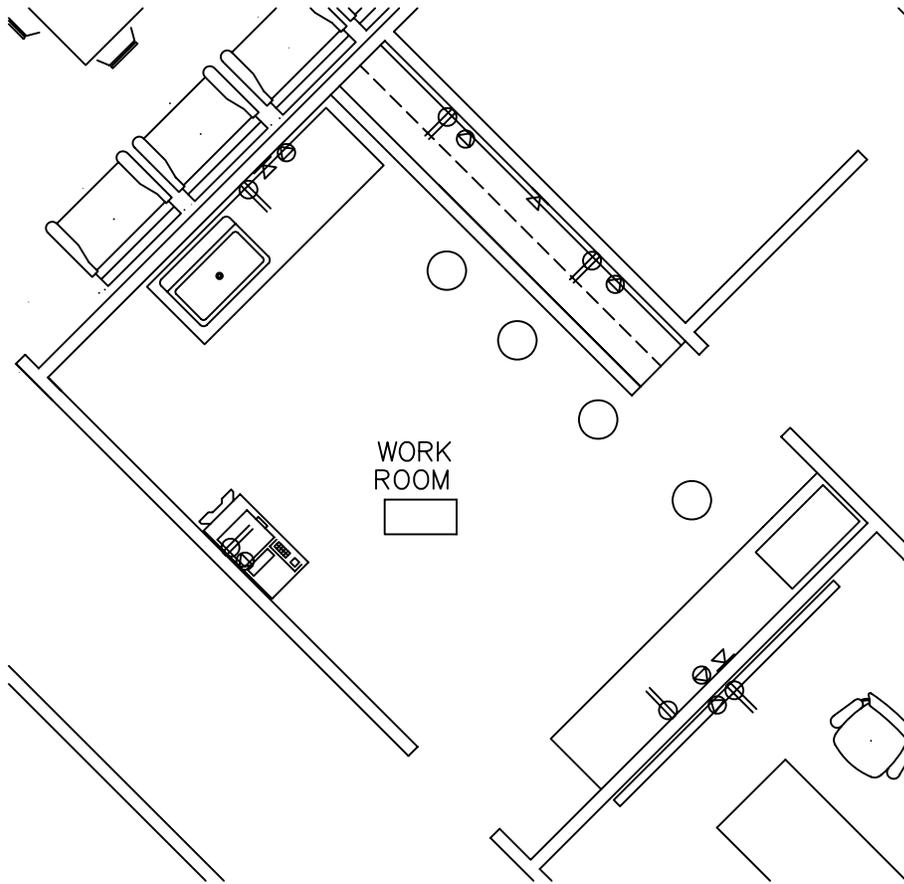
FLOORS: Carpet
WALLS: Ptd gyp brd
CEILING: 2'x4' suspended lay-in acoustical
CEILING HEIGHT: 9'
DOORS: Solid core wood door
WINDOWS: Very desirable to exterior
SOUND CONSIDERATIONS: Sound dampening to and from space
FIXED EQUIPMENT: None
MOBILE EQUIPMENT: None
FURNISHINGS: 6' desk with return and credenza, executive chair,(4) chairs; 4' bookshelves;
Wall mounted tackboard/markerboard

ENGINEERING REQUIREMENTS

MECHANICAL: Standard HVAC
PLUMBING: None
ELECTRICAL: Standard 120 volt power; quadraplex outlet at desk location
LIGHTING: 2'x4' lay-in fluorescent
COMMUNICATIONS: (1) Multi-line telephone at desk area
COMPUTER: Data outlets on (3) walls of office



KEY PLAN



WORK ROOM

LEGEND	
	Telephone Jack
	110 V Outlet
	Data Outlet
	Pneumatic Outlet
	Quad 110v Outlet
	CCTV Outlet

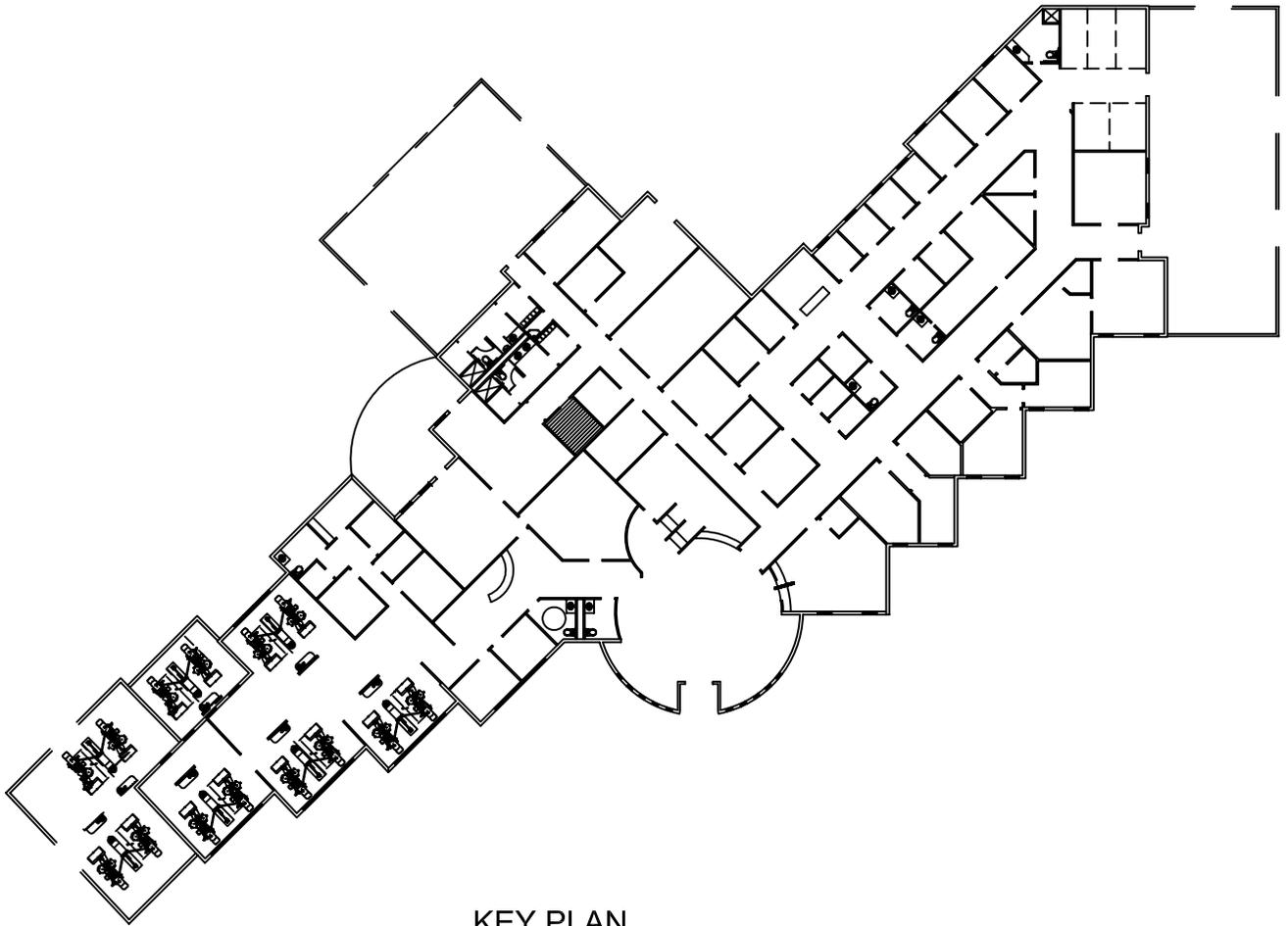
DEPARTMENT: ADMINISTRATION
ROOM NAME: WORKROOM
AREA REQUIRED: 185 Square Feet
FUNCTION: Workroom for copy and FAX machines, Countertop areas for other smaller equipment and space for layout and collating
ADJACENCIES: Corridor access to Administrative and Reception Clinic area
SECURITY CONSIDERATIONS: Lockable cabinet doors;
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements.

ARCHITECTURAL REQUIREMENTS

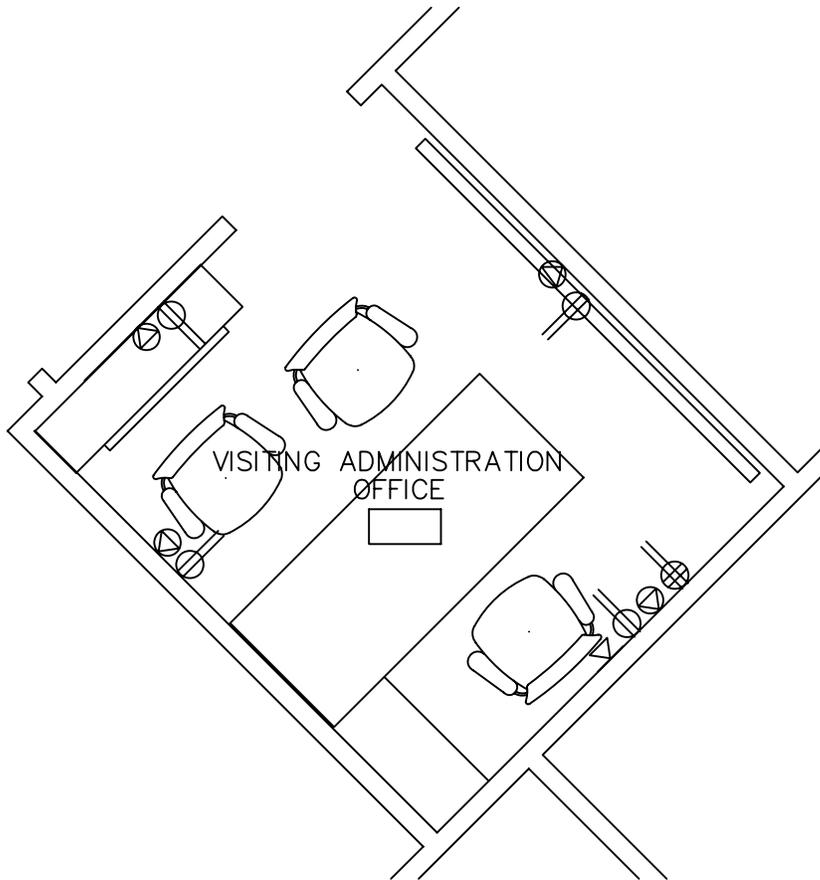
FLOORS: VCT
WALLS: Ptd gyp brd
CEILING: 2'x4' suspended lay-in acoustical
CEILING HEIGHT: 9'
DOORS: 3'x7' SC wood door
WINDOWS: Desirable to exterior – not required
SOUND CONSIDERATIONS: Sound dampening within space
FIXED EQUIPMENT: Built-in desk separation to public area
CNTRS & CASEWRK 24' x 36" high base cabinet w/corion countertop and upper cabinets
MOBILE EQUIPMENT: Copier
FURNISHINGS: Rolling stools

ENGINEERING REQUIREMENTS

MECHANICAL: Standard HVAC
PLUMBING: 12"x18" SS sink in counter top
ELECTRICAL: 120 volt power; outlets at countertop
LIGHTING: Fluorescent ambient and task lighting at desktop
COMMUNICATIONS: (3) Multi-line telephones
COMPUTER: (5) Data line outlets in adjacent walls or in floor box outlets



KEY PLAN



VISITING ADMINISTRATION OFFICE

LEGEND	
	Telephone Jack
	110 V Outlet
	Data Outlet
	Pneumatic Outlet
	Quad 110v Outlet
	CCTV Outlet

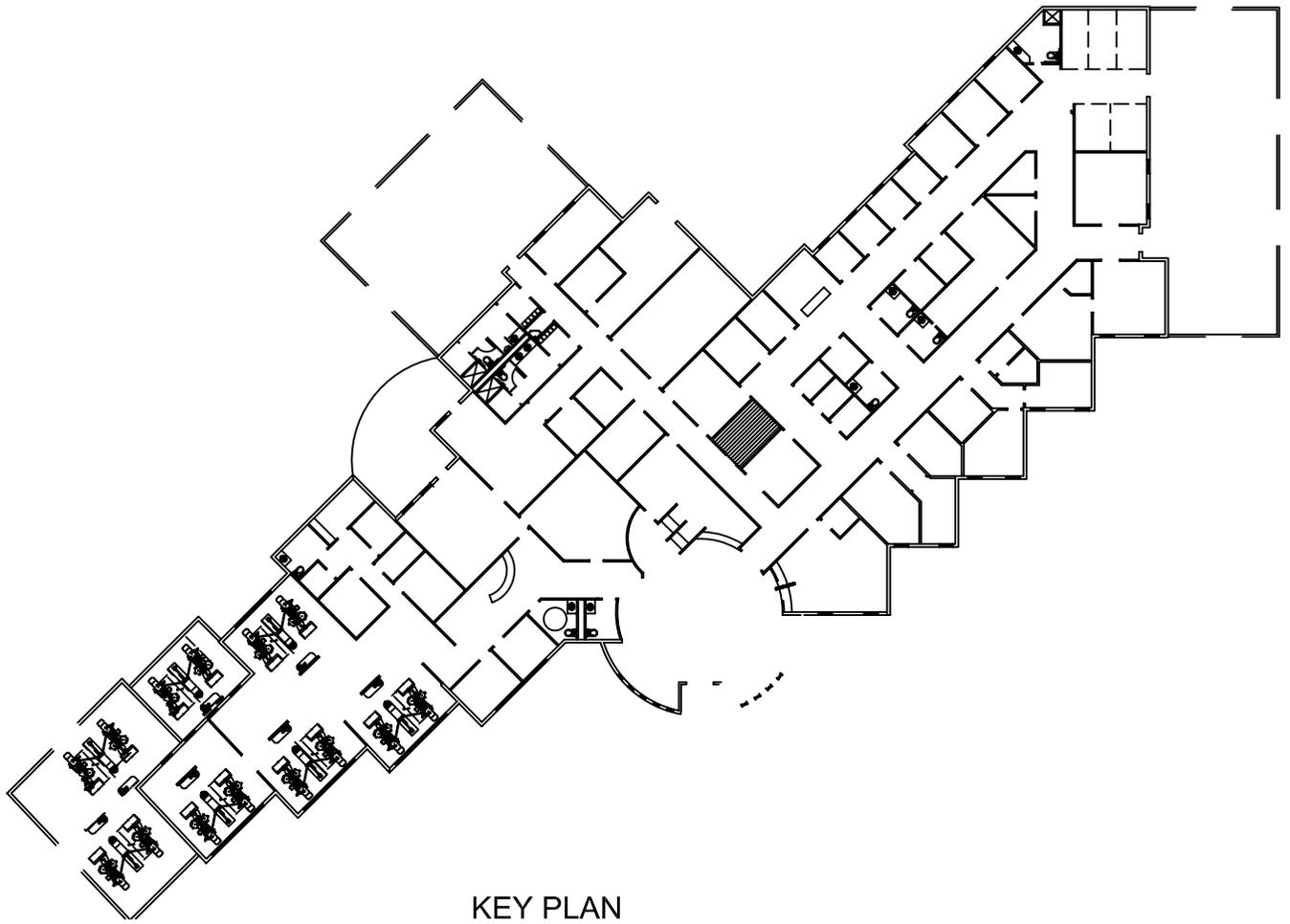
DEPARTMENT: ADMINISTRATION
ROOM NAME: VISITING ADMINISTRATOR OFFICE
AREA REQUIRED: 80 Square Feet
FUNCTION: Office for visiting executive or other administrative person
ADJACENCIES: Close corridor access to administration and records storage
SECURITY CONSIDERATIONS: Lockable door
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements.

ARCHITECTURAL REQUIREMENTS

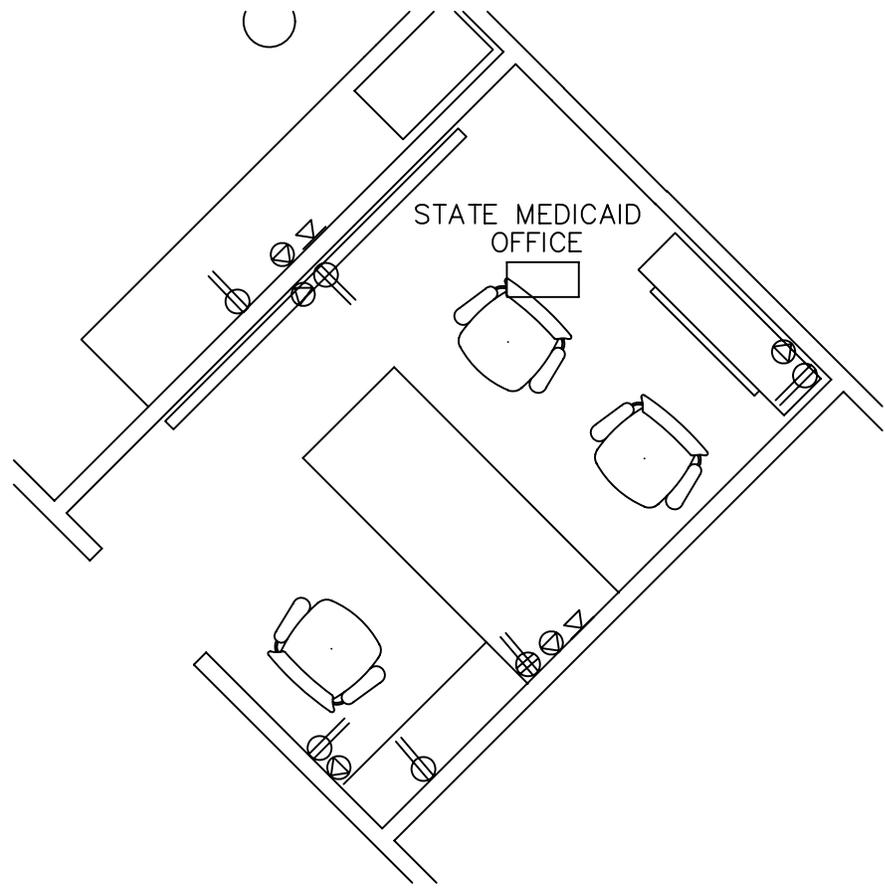
FLOORS: Carpet
WALLS: Ptd gyp brd
CEILING: 2'x4' suspended lay-in acoustical
CEILING HEIGHT: 9'
DOORS: Solid core wood door
WINDOWS: Very desirable to exterior
SOUND CONSIDERATIONS: Sound dampening to and from space
FIXED EQUIPMENT:
MOBILE EQUIPMENT:
FURNISHINGS: 6' desk with return, executive chair, 4' bookshelves tackboard/markerboard, 2 visitor chairs

ENGINEERING REQUIREMENTS

MECHANICAL: Standard HVAC
PLUMBING: None
ELECTRICAL: 120 volt power; Quadraplex outlet at desk location
LIGHTING: 2x4 lay-in fluorescent
COMMUNICATIONS: (1) Multi-line telephone
COMPUTER: Data outs on each wall of office



KEY PLAN



STATE MEDICAID OFFICE

LEGEND

-  Telephone Jack
-  110 V Outlet
-  Data Outlet
-  Pneumatic Outlet
-  Quad 110v Outlet
-  CCTV Outlet

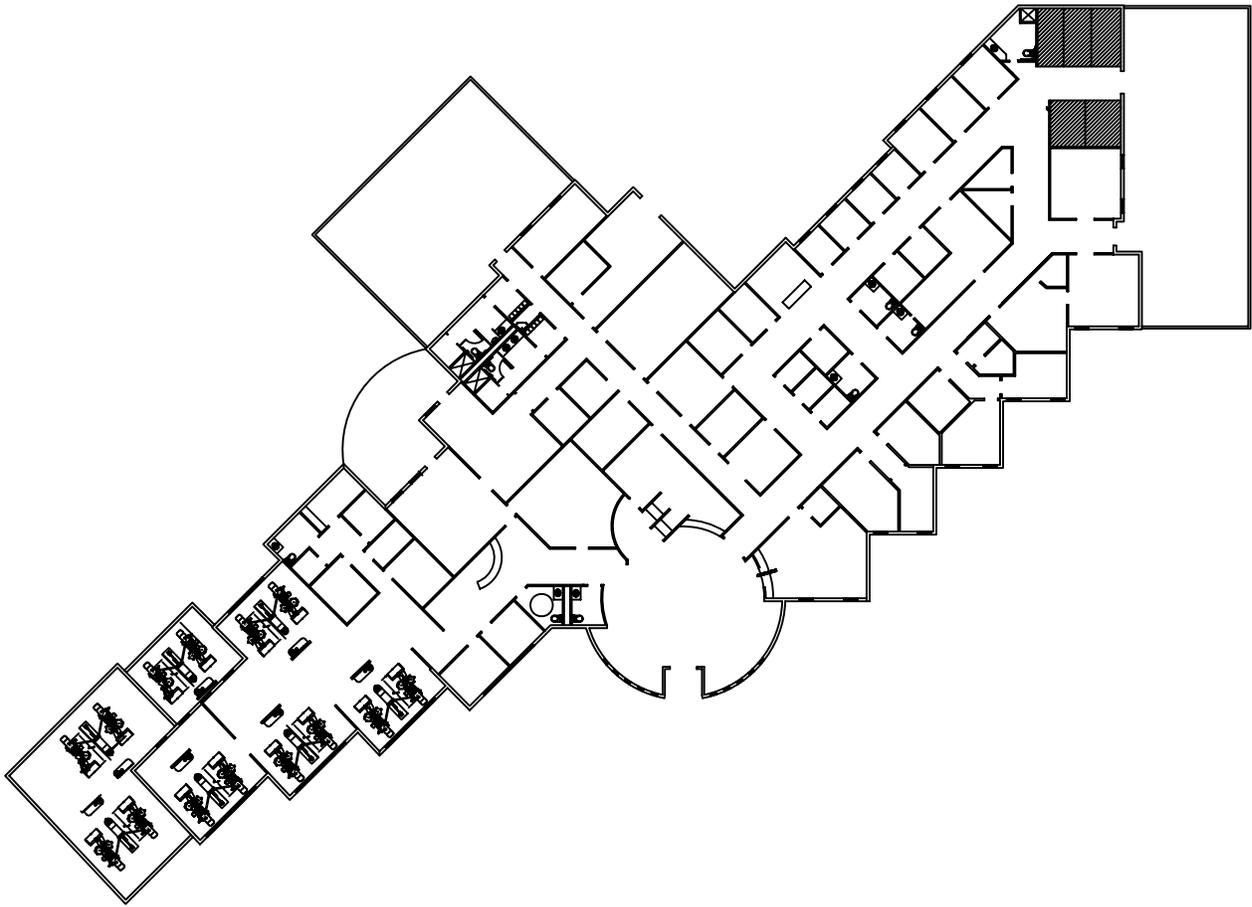
DEPARTMENT: ADMINISTRATION
ROOM NAME: STATE MEDICAID OFFICE
AREA REQUIRED: 100 Square Feet
FUNCTION: Office for visiting executive or other administrative person
ADJACENCIES: Close corridor access to administration and records storage
SECURITY CONSIDERATIONS: Lockable door
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements

ARCHITECTURAL REQUIREMENTS

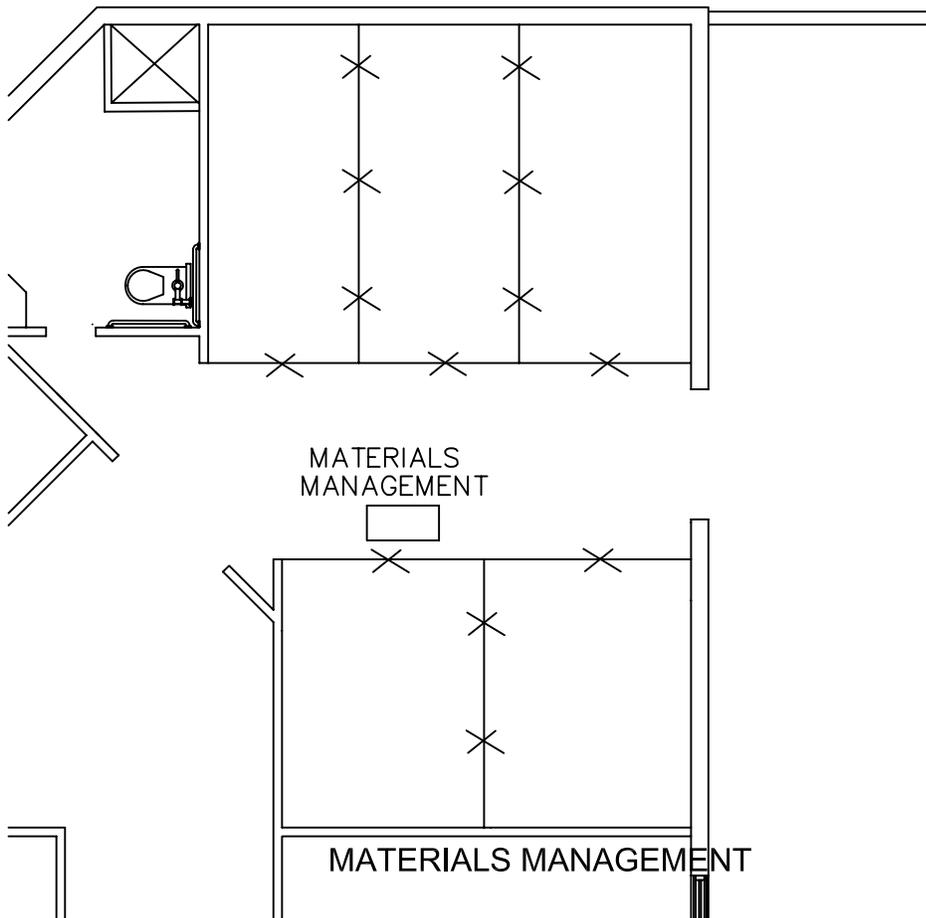
FLOORS: Carpet
WALLS: Ptd gyp brd
CEILING: 2x4 suspended lay-in acoustical
CEILING HEIGHT: 9'
DOORS: Solid core wood door
WINDOWS: Very desirable to exterior
SOUND CONSIDERATIONS: Sound dampening to and from space
FIXED EQUIPMENT:
MOBILE EQUIPMENT:
FURNISHINGS: 6' desk with return, executive chair, 4' bookshelves tackboard/markerboard, 2 visitor chairs

ENGINEERING REQUIREMENTS

MECHANICAL: Standard HVAC
PLUMBING: None
ELECTRICAL: 120 volt power; Quadraplex outlet at desk location
LIGHTING: 2x4 lay-in fluorescent
COMMUNICATIONS: (1) Multi-line telephone
COMPUTER: Data outlets on each wall of office



KEY PLAN



LEGEND

-  Telephone Jack
-  110 V Outlet
-  Data Outlet
-  Pneumatic Outlet
-  Quad 110v Outlet
-  CCTV Outlet

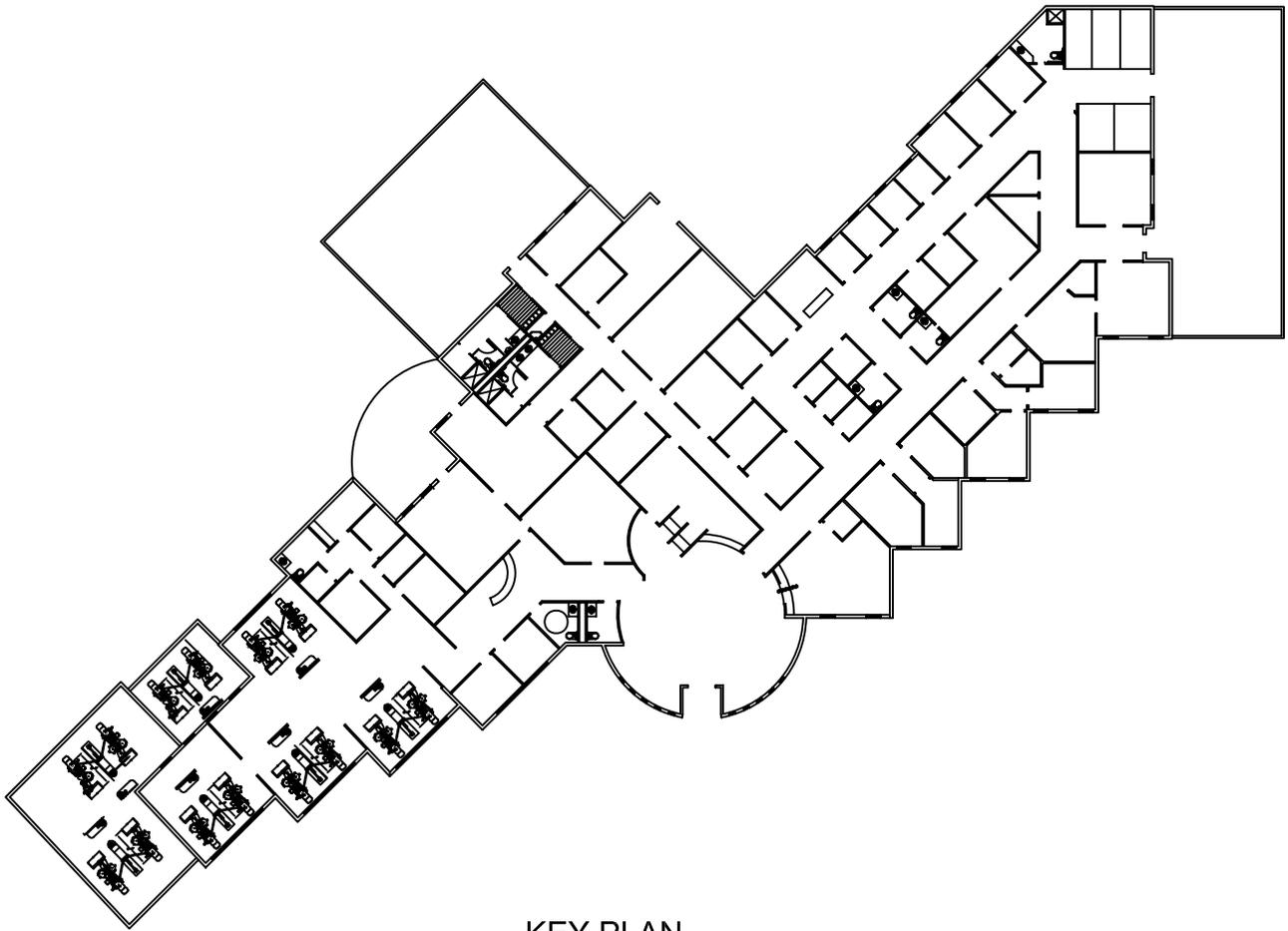
DEPARTMENT: ADMINISTRATION
ROOM NAME: MATERIALS MANAGEMENT AREA
AREA REQUIRED: 530 Square Feet
FUNCTION: Receiving and warehousing for clinic facility; Cubicle office area for Manager; wire partitions @100 SF each
ADJACENCIES: Corridor access to other clinic area
SECURITY CONSIDERATIONS: None
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements

ARCHITECTURAL REQUIREMENTS

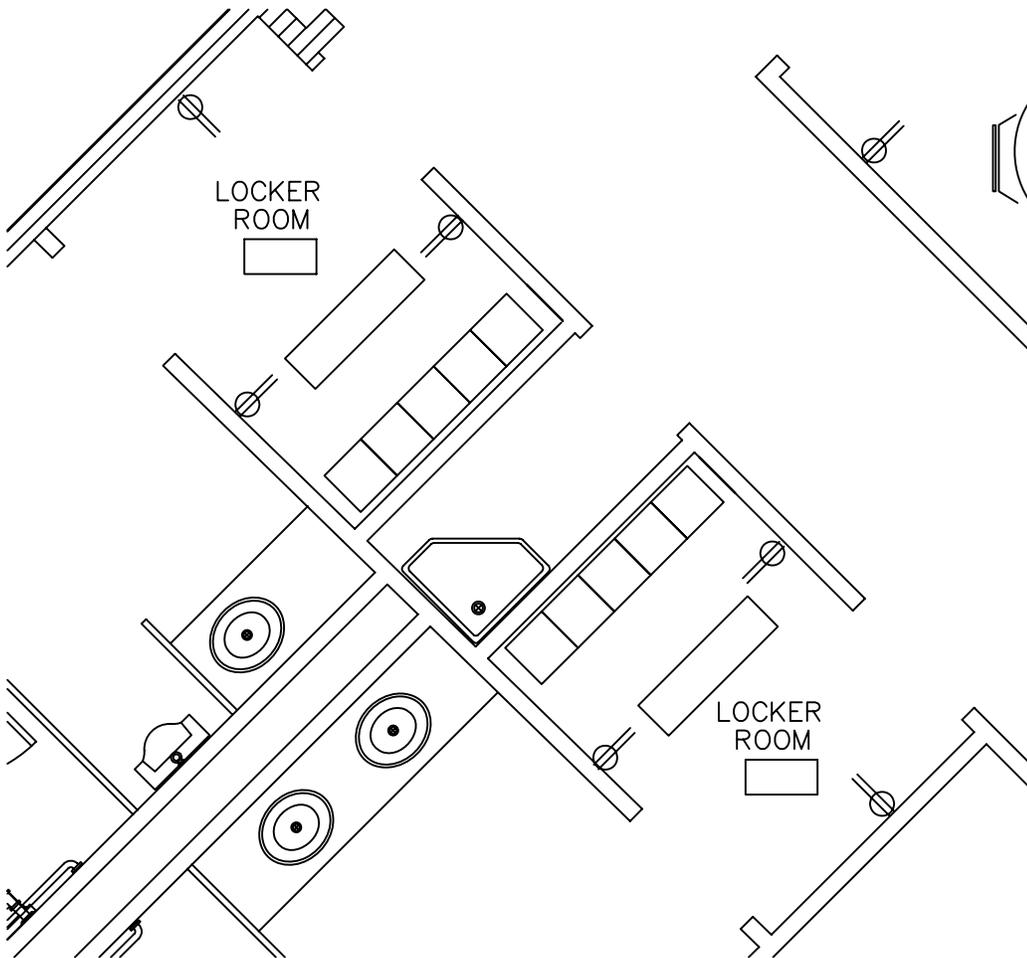
FLOORS: Sealed Concrete
WALLS: Exposed masonry
CEILING: Exposed structure
CEILING HEIGHT: 9'
DOORS: 8' overhead dock door; 3x7 hollow metal door to interior area
WINDOWS: Not required
SOUND CONSIDERATIONS:
FIXED EQUIPMENT:
CNTRS & CASEWRK None
MOBILE EQUIPMENT: None
FURNISHINGS: None

ENGINEERING REQUIREMENTS

MECHANICAL: Standard HVAC
PLUMBING:
ELECTRICAL: 120 volt power; as per code mounted 52" above floor
LIGHTING: Fluorescent suspended lighting
COMMUNICATIONS: (1) Multi-line telephone, wall mounted
COMPUTER: (1) Data line outlets on each wall



KEY PLAN



LOCKER ROOMS

LEGEND	
	Telephone Jack
	110 V Outlet
	Data Outlet
	Pneumatic Outlet
	Quad 110v Outlet
	CCTV Outlet

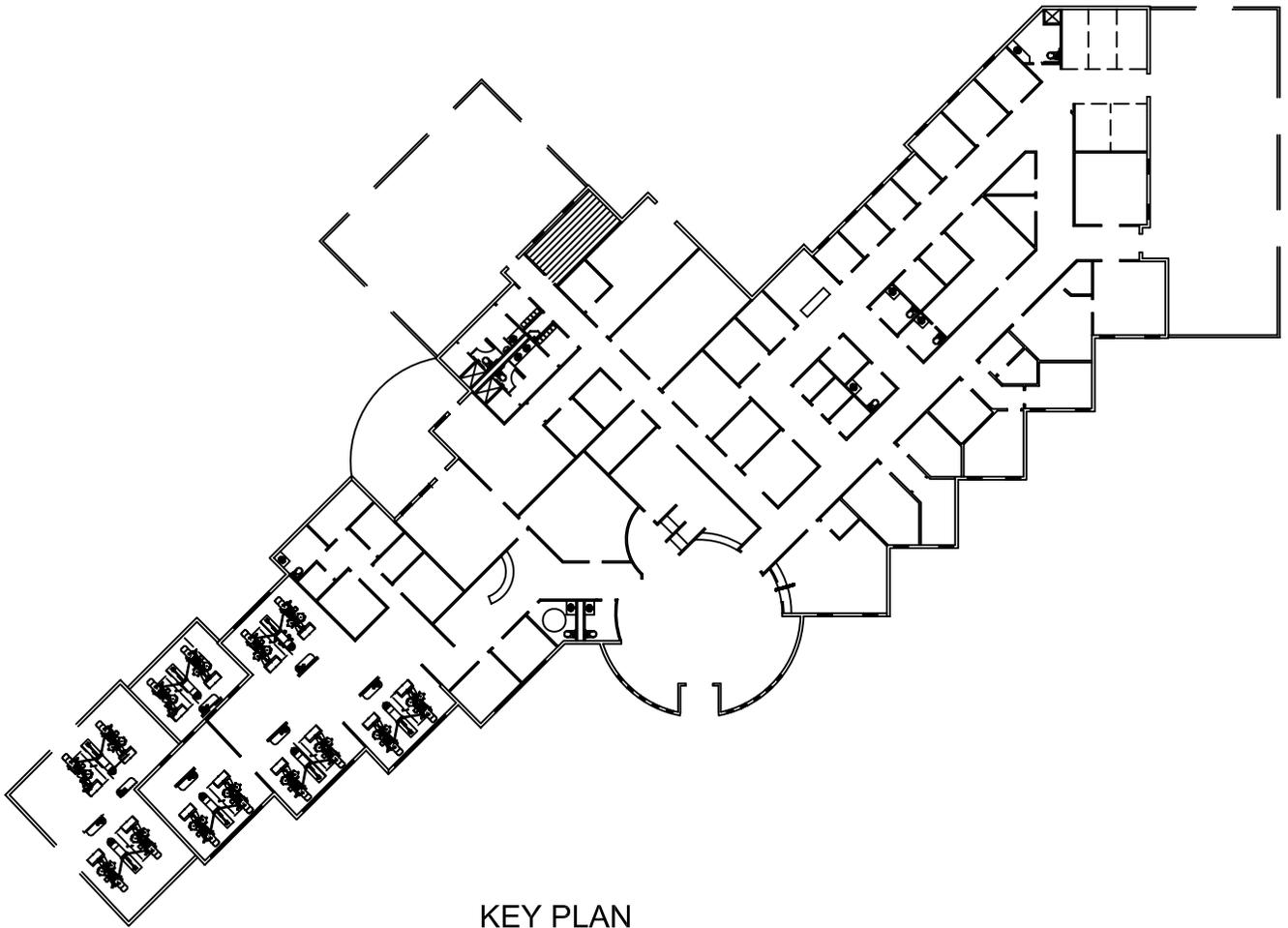
DEPARTMENT: ADMINISTRATION
ROOM NAME: LOCKER ROOM (MENS AND WOMENS) 1 EACH
AREA REQUIRED: 100 Square Feet
FUNCTION: Locker room for male/ female staff of the clinic
ADJACENCIES: Space separates break room and restroom
SECURITY CONSIDERATIONS: None
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements

ARCHITECTURAL REQUIREMENTS

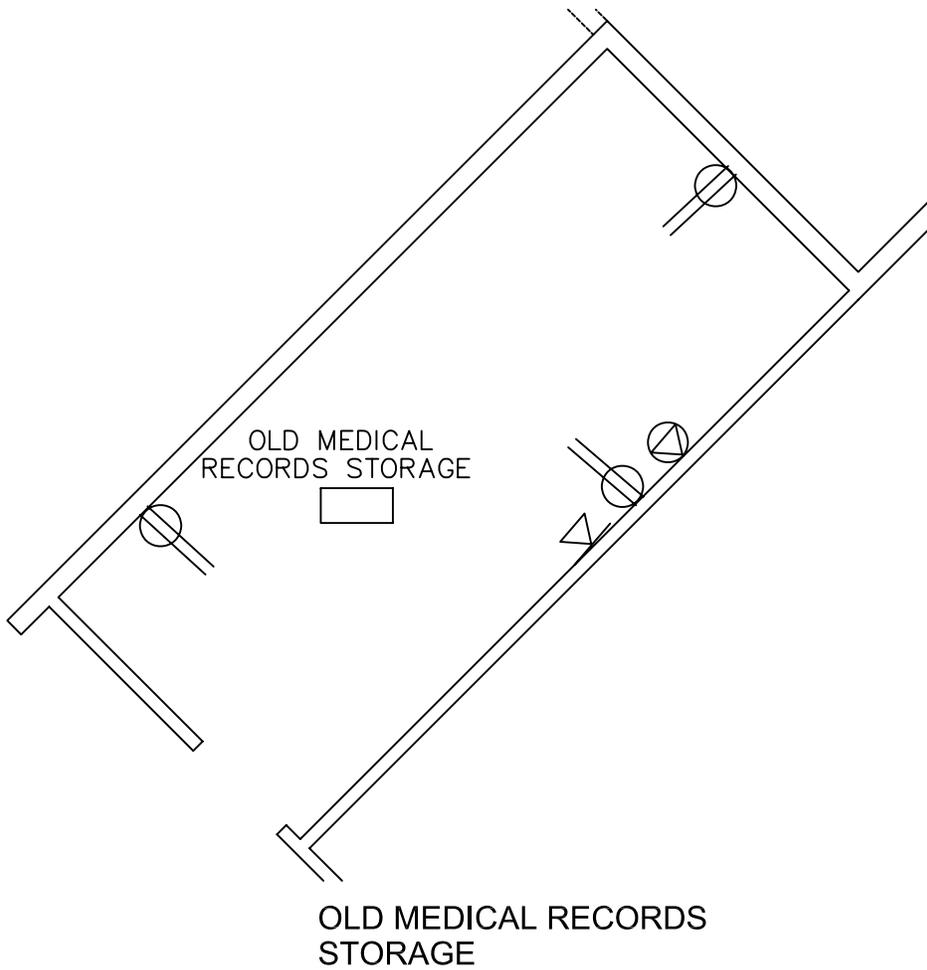
FLOORS: Linoleum
WALLS: Ptd gyp brd
CEILING: 2'x4' suspended lay-in acoustical
CEILING HEIGHT: 9'
DOORS: 3'x7' SC wood door as/if required
WINDOWS: Very desirable to exterior
SOUND CONSIDERATIONS: None
FIXED EQUIPMENT: (12) 12" lockers double stacked
CNTRS & CASEWRK None
MOBILE EQUIPMENT: None
FURNISHINGS: 6' long bench

ENGINEERING REQUIREMENTS

MECHANICAL: Standard HVAC
PLUMBING: None
ELECTRICAL: 120 volt power
LIGHTING: Fluorescent ambient lighting
COMMUNICATIONS: None
COMPUTER: None



KEY PLAN



LEGEND	
	Telephone Jack
	110 V Outlet
	Data Outlet
	Pneumatic Outlet
	Quad 110v Outlet
	CCTV Outlet

DEPARTMENT: ADMINISTRATION
ROOM NAME: OLD MEDICAL RECORDS STORAGEE
AREA REQUIRED: 200 Square Feet
FUNCTION: Store old medical records that aren't in the new system.
ADJACENCIES: Corridor access.
SECURITY CONSIDERATIONS: Lockable doors.
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements.

ARCHITECTURAL REQUIREMENTS

FLOORS: V.C.T.
WALLS: Ptd gyp brd
CEILING: 2'x4' suspended lay-in acoustical
CEILING HEIGHT: 10'
DOORS: 3'x7' SC wood door
WINDOWS: None.
SOUND CONSIDERATIONS: None.
FIXED EQUIPMENT: None.
MOBILE EQUIPMENT: None.
FURNISHINGS: None.

ENGINEERING REQUIREMENTS

MECHANICAL: Standard HVAC
PLUMBING: Rough-in sink
ELECTRICAL: 120 volt power
LIGHTING: 2x4 Fluorescent lay-in.
COMMUNICATIONS: (1) Multi-line telephones jack only
COMPUTER: (1) computer data only

DEPARTMENT: INFORMATION TECHNOLOGY

DEPARTMENT HEAD: Mike Jensen / Allen Henderson

SCOPE:

The Information Technology (IT) area will be the center of the communications and networking system for the entire facility and will be the latest in technology in terms of equipment, infrastructure, accessibility and flexibility. The IT space will be located as central to the entire clinic as possible and will house two network racks with room for a third at some future date. The racks will sit on a 12" raised floor with 16" square removable panels. The entire room will have a backup cooling system and will also house the desk area for the IT operator.

Cable runs to the outlying computers will be organized in defined bundles and will be laid into cable trays as required.

KEY RELATIONSHIPS

The IT room must be located central to the entire clinic facility. Maximum cable runs must not exceed 150 feet.

SITE IMPLICATIONS AND REQUIREMENTS

Future expansion possibilities must be considered now for optimum placement of IT room.

GENDER IMPLICATIONS

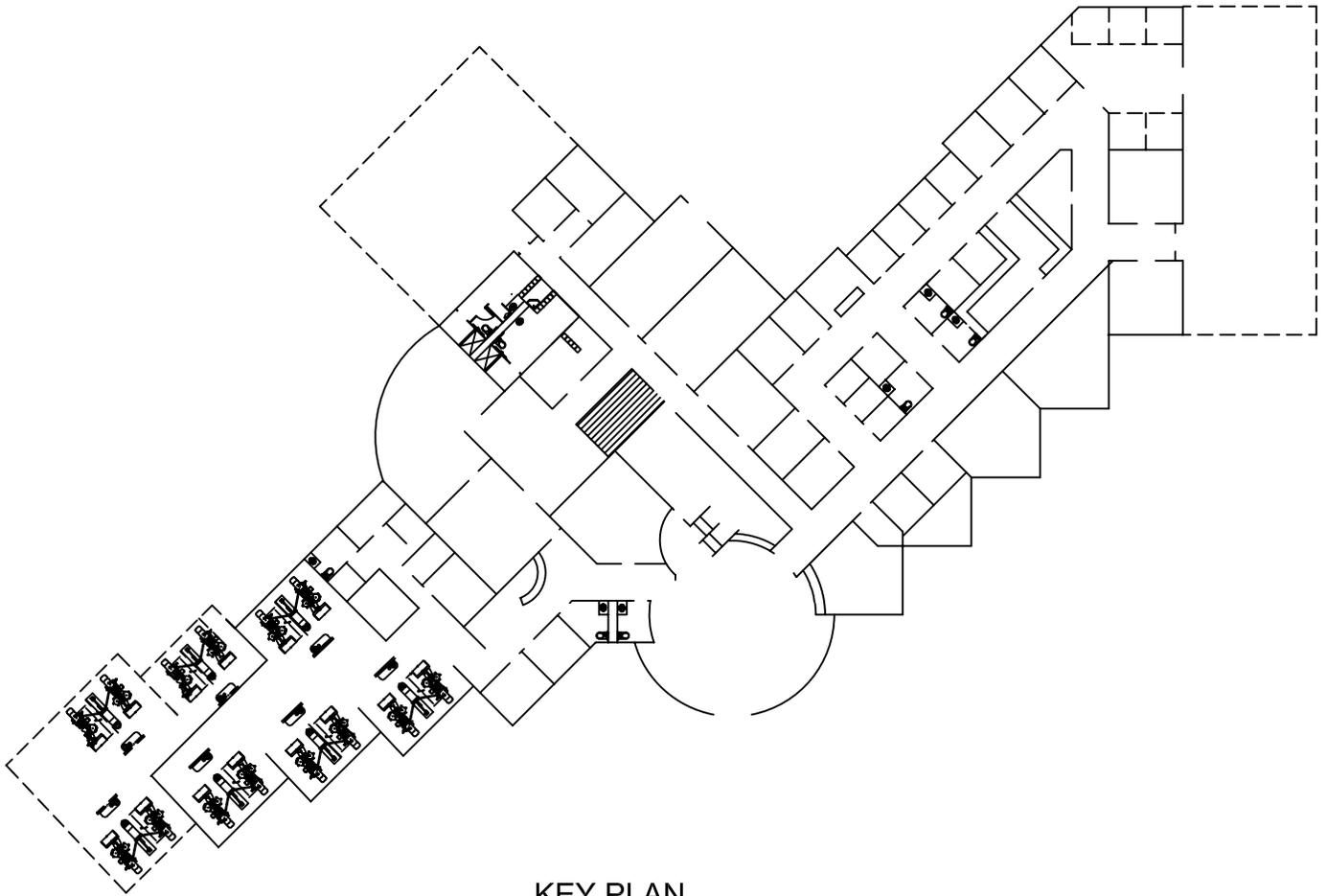
None

OTHER REQUIREMENTS

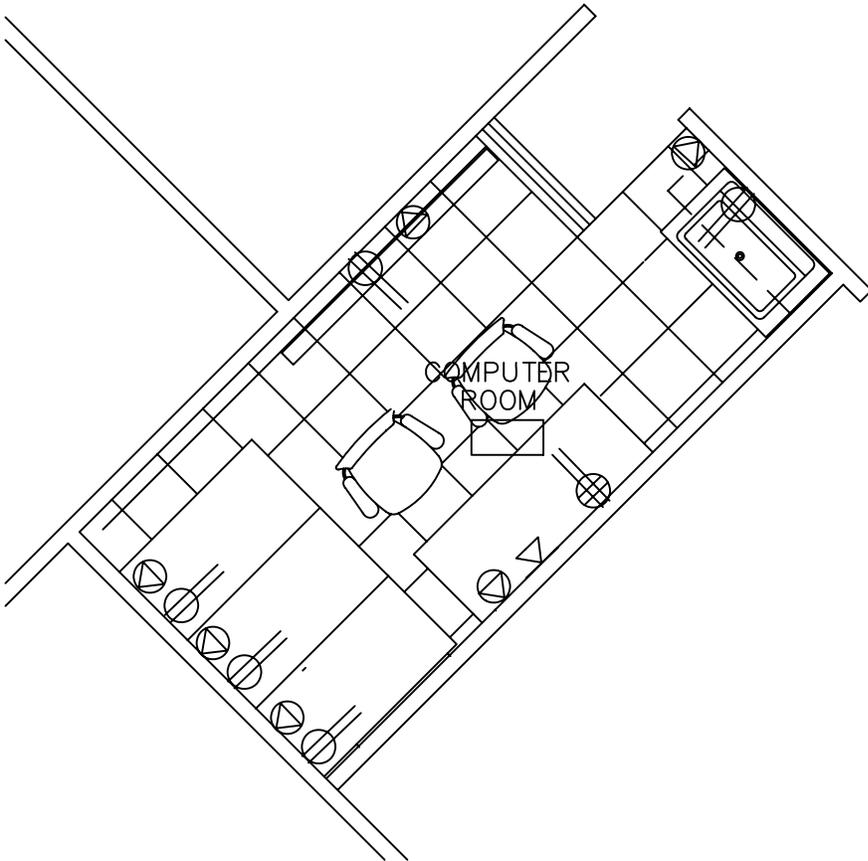
INDIVIDUAL SPACES / ROOMS

Computer Room 100 Square Feet

REMARKS



KEY PLAN



COMPUTER ROOM

LEGEND	
	Telephone Jack
	110 V Outlet
	Data Outlet
	Pneumatic Outlet
	Quad 110v Outlet
	CCTV Outlet

DEPARTMENT: INFORMATION TECHNOLOGY

ROOM NAME: COMPUTER ROOM

AREA REQUIRED: 100 Square Feet

FUNCTION: Climate controlled room for the placement of (3) network racks and for demarcation of phone lines to the space. Room to have area for IT Manager desk and work counter, and will have raised floor for ease of cable management

ADJACENCIES: Close corridor access to administration and records storage

SECURITY CONSIDERATIONS: Controlled finger print access door

ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements

ARCHITECTURAL REQUIREMENTS

FLOORS: 16" x 16" raised floor 12" above main structure floor w/VCT finish

WALLS: Ptd gyp brd

CEILING: 2'x4' suspended lay-in acoustical

CEILING HEIGHT: 10'

DOORS: 3'x7' solid core wood door

WINDOWS: Not required

SOUND CONSIDERATIONS: Coordination with cold air return

FIXED EQUIPMENT: (3) Server racks 24"x42"x8' (high); wall mounted adjustable book shelving three shelves high; built- in desk and counter 8' long

MOBILE EQUIPMENT: None

FURNISHINGS: Rolling chair and visitor chair

ENGINEERING REQUIREMENTS

MECHANICAL: Positive pressure HVAC with cooling unit backup system mtd. Below ceiling FM 200 Fire suppression system

PLUMBING: SS hand sink

ELECTRICAL: Quadraplex outlet at desk location; 120 volt power to racks with circuits as required

LIGHTING: 2x4 lay-in fluorescent

COMMUNICATIONS: (1) Multi-line telephone

COMPUTER: Data outlets on each wall of computer room

DEPARTMENT: DENTAL

DEPARTMENT HEAD: Dr. Vreeken

SCOPE:

The Dental area will center around an open operatory room that will contain 8 chairs semi-surrounded by cabinetry that will serve each dental station. The stations will be assigned as follows:

- (2) Dentists (2.5) chairs each
- (1) Hygienist (1) chair
- (1) Orthodontist Shared chair w/ Dentist
- (2) Pedodontists (1) chair each

Each operatory chair will be surrounded on three sides with cabinetry that is part of the chair equipment and supports the activities of the chair itself. Each operatory chair will have full infrastructure support with gas, vacuum, compressed air, power and other, piped directly to the chair from the equipment room. A stainless steel hand sink will be mounted between chairs and will visually separate the chairs from the circulation area.

Views to the outside for each of the operatory chairs will be highly desirable for the comfort and ease of the patient. Every attempt should be made to take advantage of the surrounding beauty from the clinic area and particularly the dental operatory.

Pedodontics, or dentistry for children, will be assigned (2) chairs will be visually separated from the rest of the open operatories as much as possible and will have anesthesia available to both chairs.

Supporting spaces (listed below) will be directly adjacent to or with immediate corridor access to the open operatory area.

The dental area will be constructed for ease of future expansion of the operatory area and supporting spaces as required

KEY RELATIONSHIPS

All supporting functions of the dental area are either adjacent to or with immediate corridor access to the open Operatory area. The only other key relationship to the clinic will be to the main waiting and check-in area

SITE IMPLICATIONS AND REQUIREMENTS

The Dental area must be able to be easily expanded without impacting other areas or functions of the clinic. This will require siting the Dental area with respect to the other clinic areas and to the site so that this expansion may happen easily.

GENDER IMPLICATIONS

None

OTHER REQUIREMENTS

None

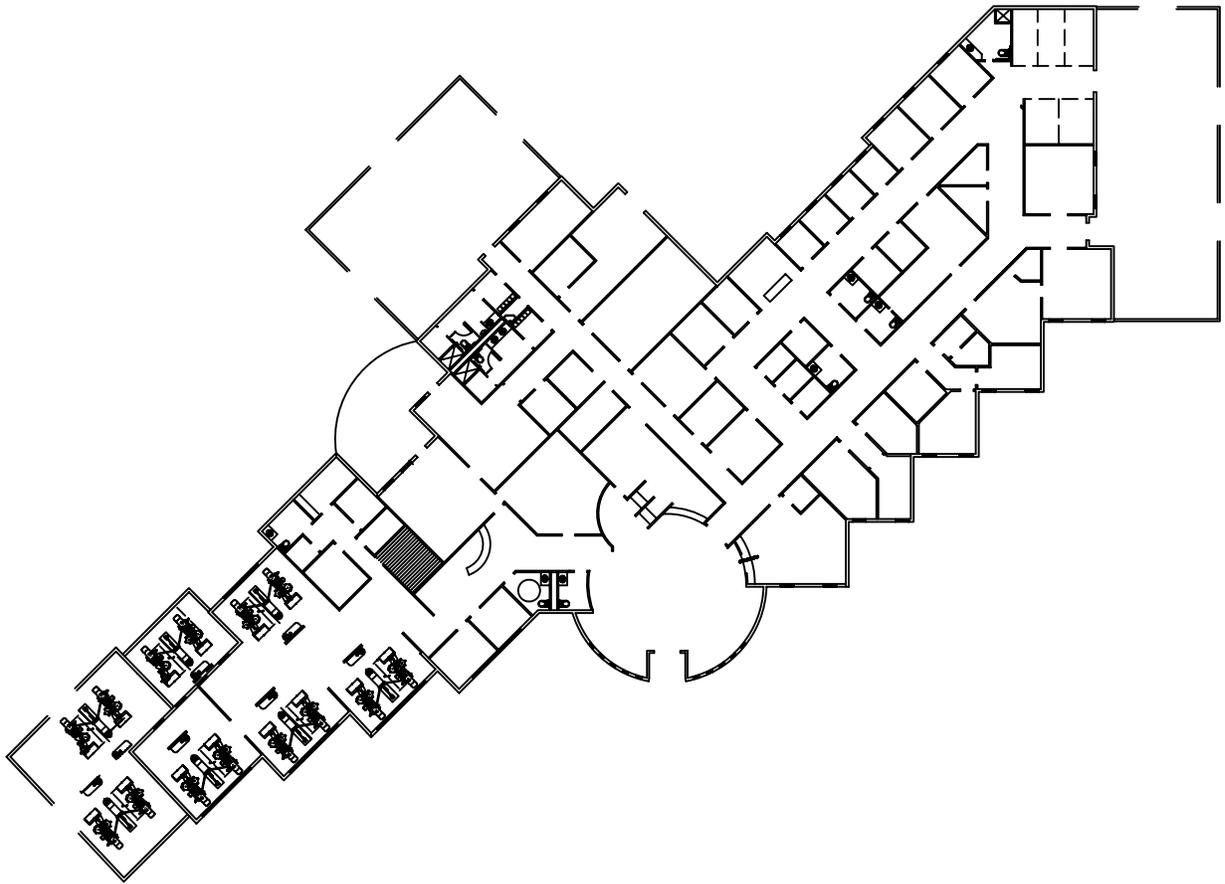
INDIVIDUAL SPACES / ROOMS

X-ray Room

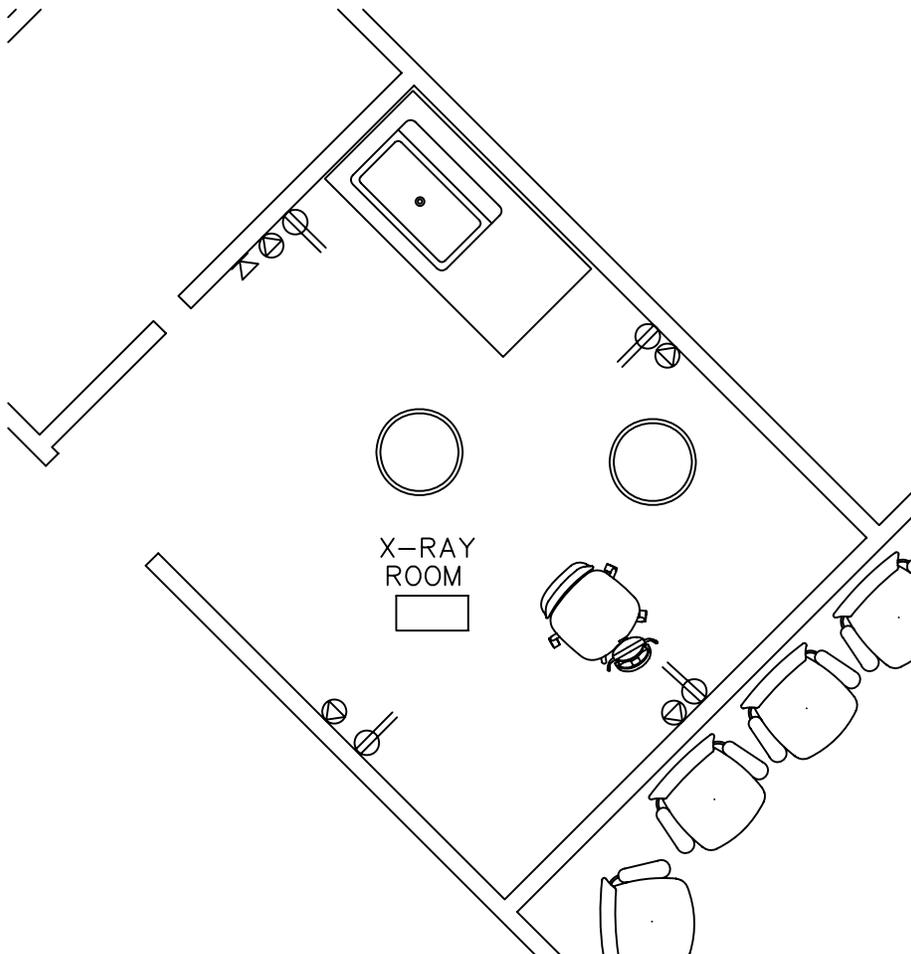
115 Square Feet

Sterilization - 6' x 6'	36 Square Feet
Storage Room -	90 Square Feet
Equipment Room	50 Square Feet
Dentist offices (2) each/100 Square Ft	200 Total Square Feet
Laboratory	110 Square Feet
Dark Room	40 Square Feet
Ancillary Waiting	140 Square Feet
Operatory	1820 Square Feet

REMARKS



KEY PLAN



X-RAY ROOM

LEGEND

-  Telephone Jack
-  110 V Outlet
-  Data Outlet
-  Pneumatic Outlet
-  Quad 110v Outlet
-  CCTV Outlet

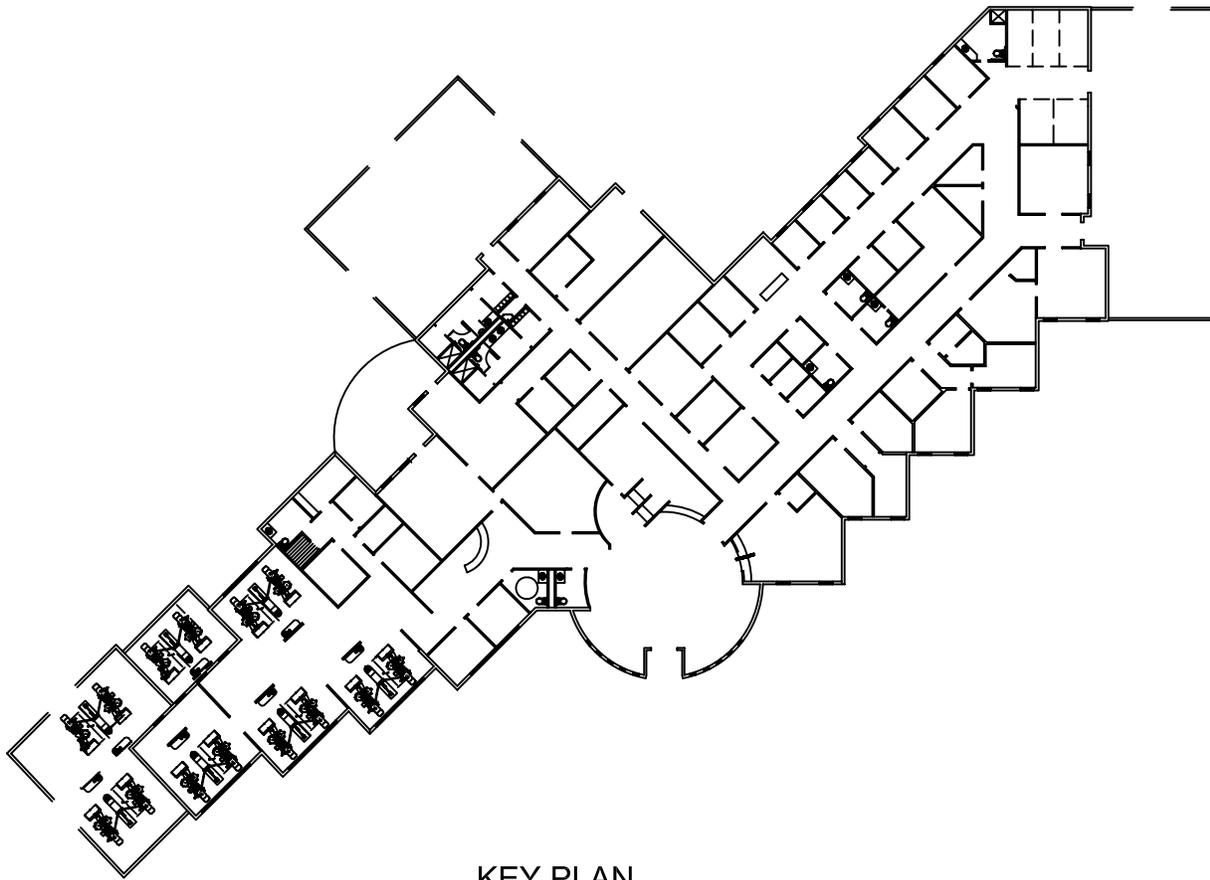
DEPARTMENT: DENTAL
ROOM NAME: X-RAY ROOM
AREA REQUIRED: 115 Square Feet
FUNCTION: Will house x-ray equipment to serve the Dental area
ADJACENCIES: Darkroom and Processor Room
SECURITY CONSIDERATIONS: Lockable door from corridor. Passage set from Emergency Treatment Room
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements

ARCHITECTURAL REQUIREMENTS

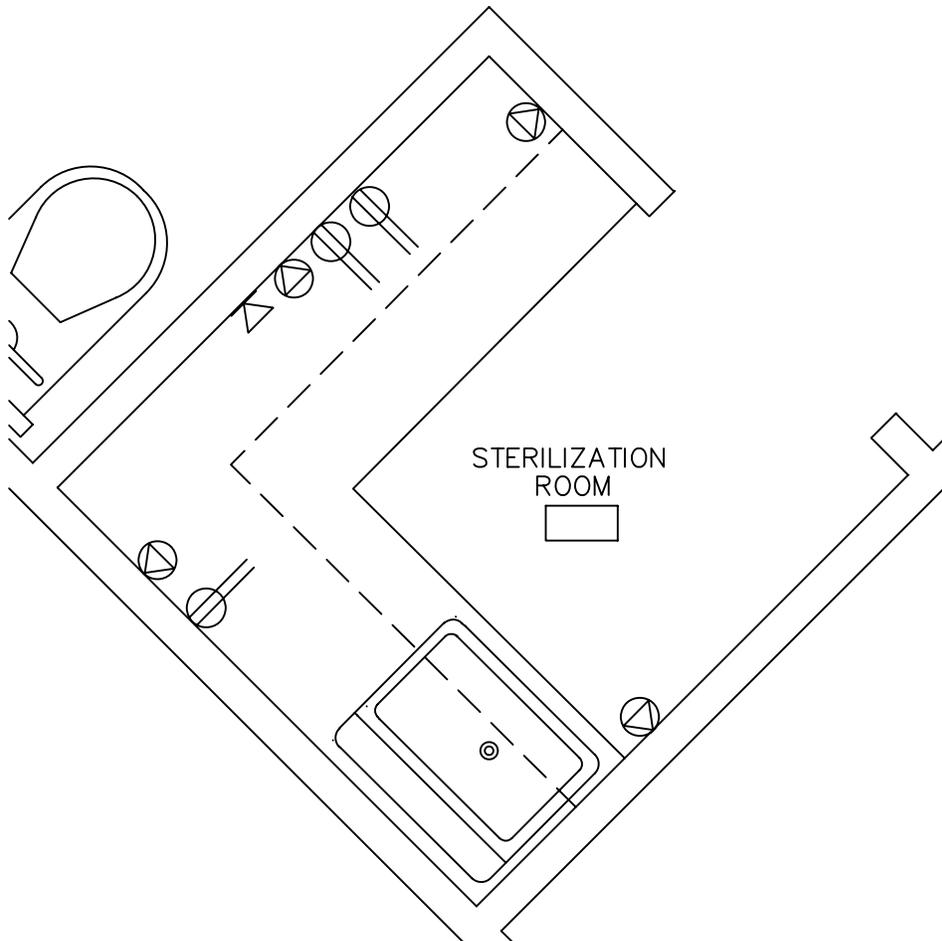
FLOORS: Linoleum
WALLS: Painted lead lined gypsum board
CEILING: 2' x 4' suspended lay-in acoustical ceiling
CEILING HEIGHT: 9'
DOORS: 3' x 7' SC wood, 18x18 opening to Dark Room w/ lockable light proof door
WINDOWS: None
SOUND CONSIDERATIONS: None
FIXED EQUIPMENT: Wall mounted X-ray equipment; Dental chair
MOBILE EQUIPMENT: Computer servers, Digital imaging equipment
FURNISHINGS: Technician rolling stools

ENGINEERING REQUIREMENTS

MECHANICAL: Enhanced HVAC to accommodate equipment heat gain
PLUMBING: Wall mtd SS hand wash sink with winged faucet handles
ELECTRICAL: Dedicated circuit for X- ray machine; digital and computer equipment, and 120 volt std room power
LIGHTING: 2x4 fluorescent lay in
COMMUNICATIONS: (1) Multi-line telephone jack
COMPUTER: (1) Data outlet mounted on each wall



KEY PLAN



STERILIZATION ROOM

LEGEND

-  Telephone Jack
-  110 V Outlet
-  Data Outlet
-  Pneumatic Outlet
-  Quad 110v Outlet
-  CCTV Outlet

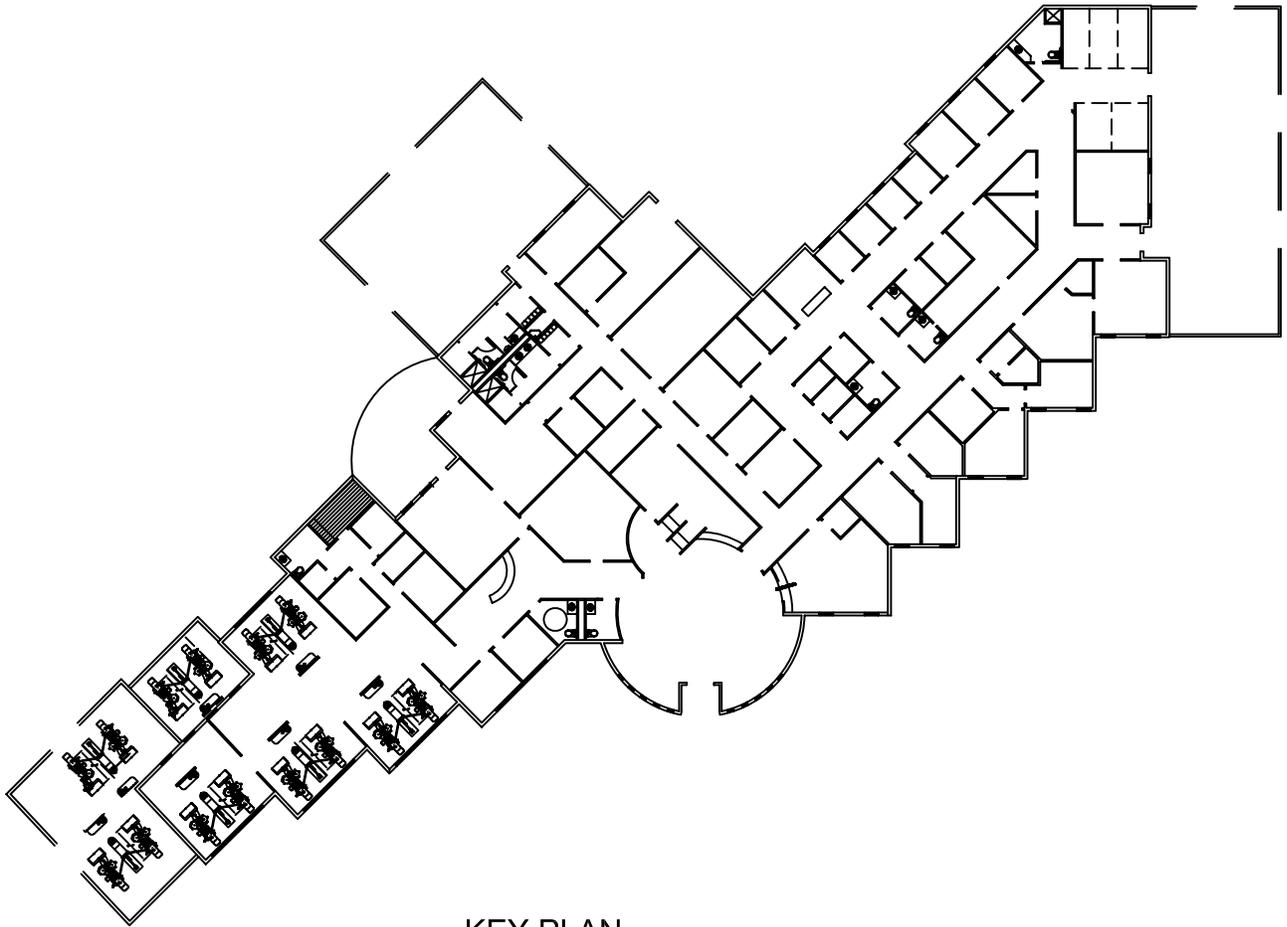
DEPARTMENT: DENTAL
ROOM NAME: STERILIZATION
AREA REQUIRED: 36 Square Feet
FUNCTION: Separate area for sterilization equipment
ADJACENCIES: Corridor access
SECURITY CONSIDERATIONS: Lockable door
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements

ARCHITECTURAL REQUIREMENTS

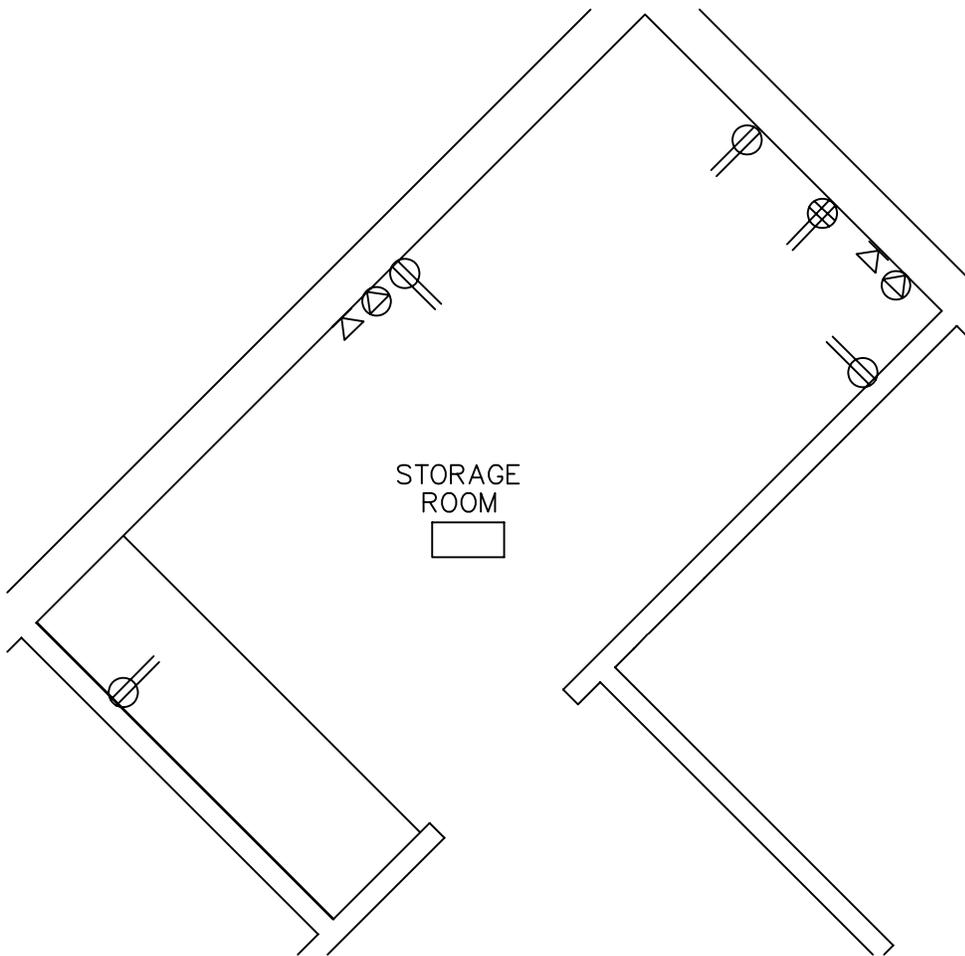
FLOORS: Linoleum
WALLS: Ptd. gyp brd
CEILING: 2'x4' acoustical suspended ceiling system
CEILING HEIGHT: 9'
DOORS: 3'x7' SC wood
WINDOWS: Desirable
SOUND CONSIDERATIONS: None
FIXED EQUIPMENT: None
CNTRS & CSWRK 12' min. base cab 36" (h); w/24" corian countertop and full height upper cabinets
MOBILE EQUIPMENT: None
FURNISHINGS: None

ENGINEERING REQUIREMENTS

MECHANICAL: Standard HVAC enhanced exhaust system
PLUMBING: 18"x24" SS sink w/ winged faucets
ELECTRICAL: 120 volt outlets with (3) 20 Amp circuits
LIGHTING: 2x4 fluorescent lay-in
COMMUNICATIONS: (1) Multi-line telephone jack
COMPUTER: (1) Data outlet mounted on ea. Wall.



KEY PLAN



STORAGE ROOM

STORAGE ROOM

LEGEND

-  Telephone Jack
-  110 V Outlet
-  Data Outlet
-  Pneumatic Outlet
-  Quad 110v Outlet
-  CCTV Outlet

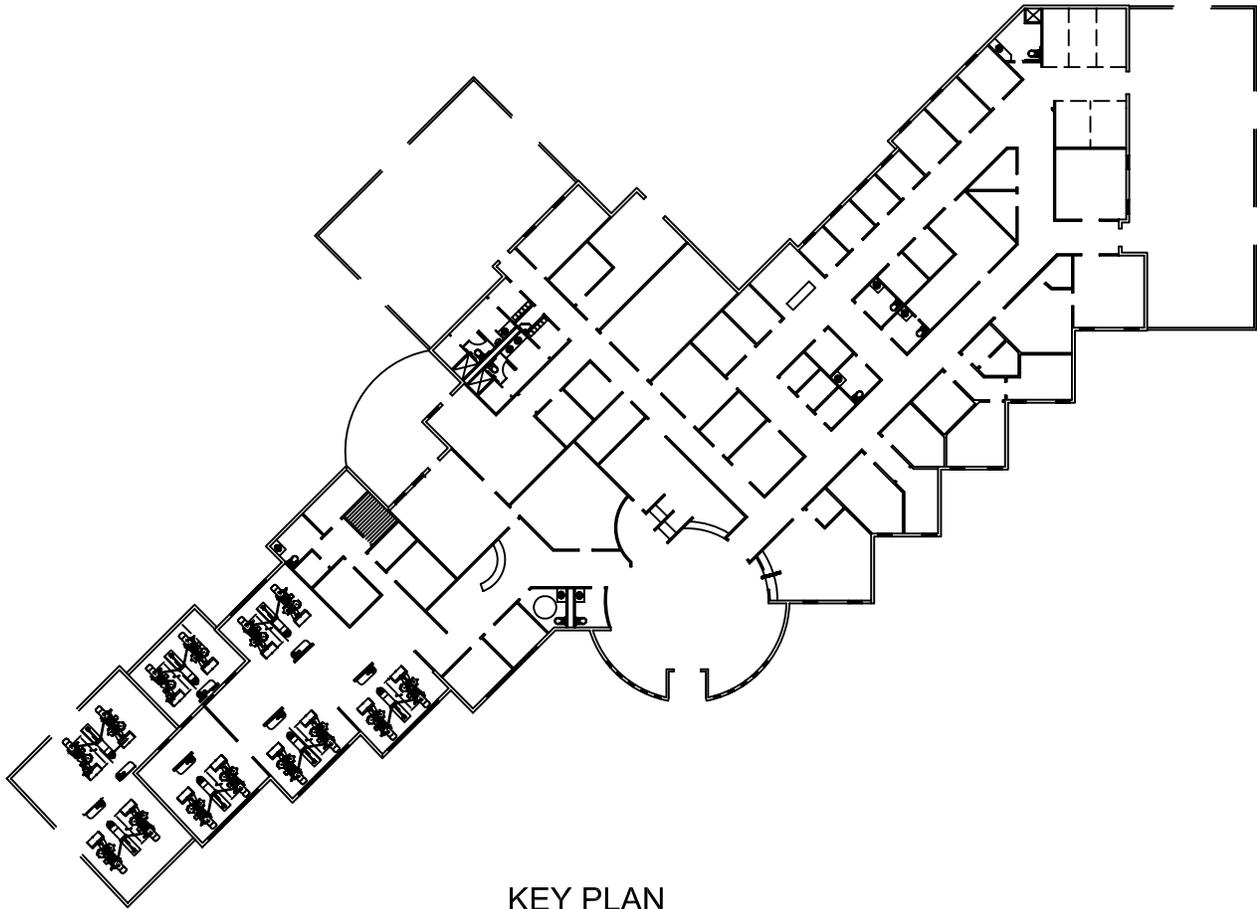
DEPARTMENT: DENTAL
ROOM NAME: STORAGE ROOM
AREA REQUIRED: 90 Square Feet
FUNCTION: Secure storage for department
ADJACENCIES: Corridor access
SECURITY CONSIDERATIONS: Lockable door
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements.

ARCHITECTURAL REQUIREMENTS

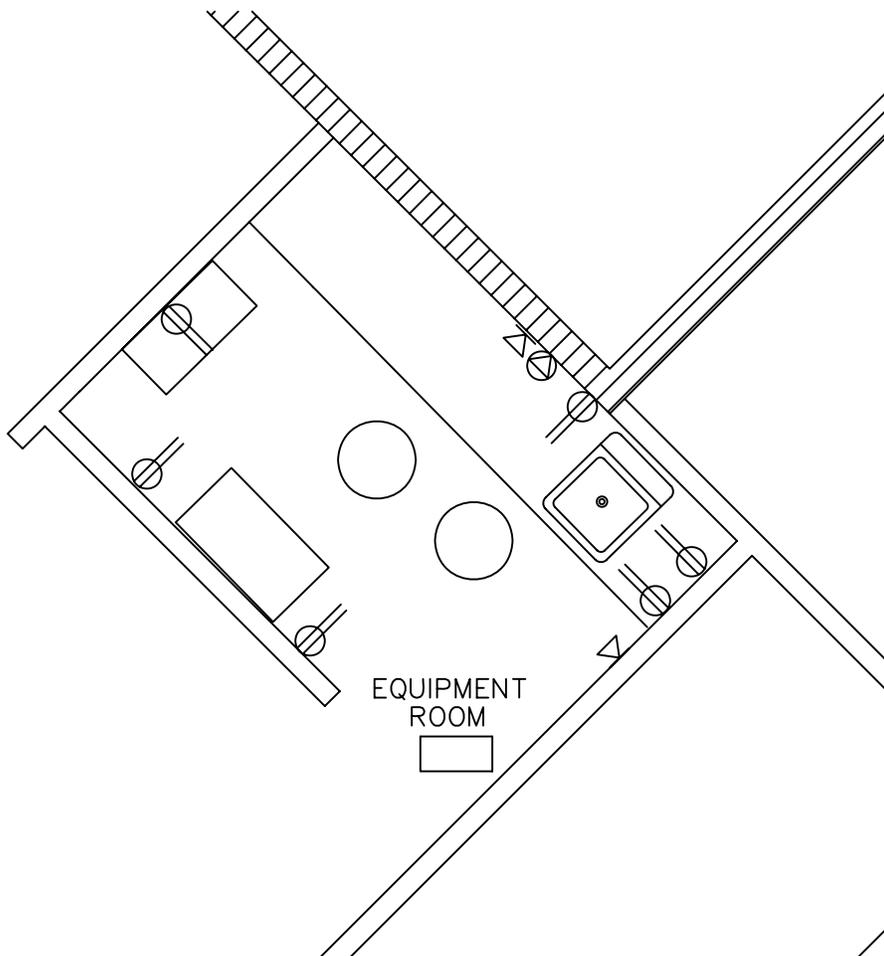
FLOORS: Linoleum
WALLS: Ptd. gyp brd
CEILING: Ptd. gyp brd
CEILING HEIGHT: 9'
DOORS: 3'x7' SC wood
WINDOWS: None
SOUND CONSIDERATIONS: None
FIXED EQUIPMENT: None
CNTRS & CSWRK (5) 18" Shelves on (1) 6' wall Slat wall on other walls, 30" wide countertop – plastic laminate finish
MOBILE EQUIPMENT: None
FURNISHINGS: None

ENGINEERING REQUIREMENTS

MECHANICAL: Standard HVAC
PLUMBING: None
ELECTRICAL: Std 120 volt outlets
LIGHTING: 2x4 surface fluorescent lay-in
COMMUNICATIONS: (2) Multi-line telephone jacks mounted on (2) walls
COMPUTER: (2) Data outlets mounted on (2) walls.



KEY PLAN



EQUIPMENT ROOM

LEGEND	
	Telephone Jack
	110 V Outlet
	Data Outlet
	Pneumatic Outlet
	Quad 110v Outlet
	CCTV Outlet

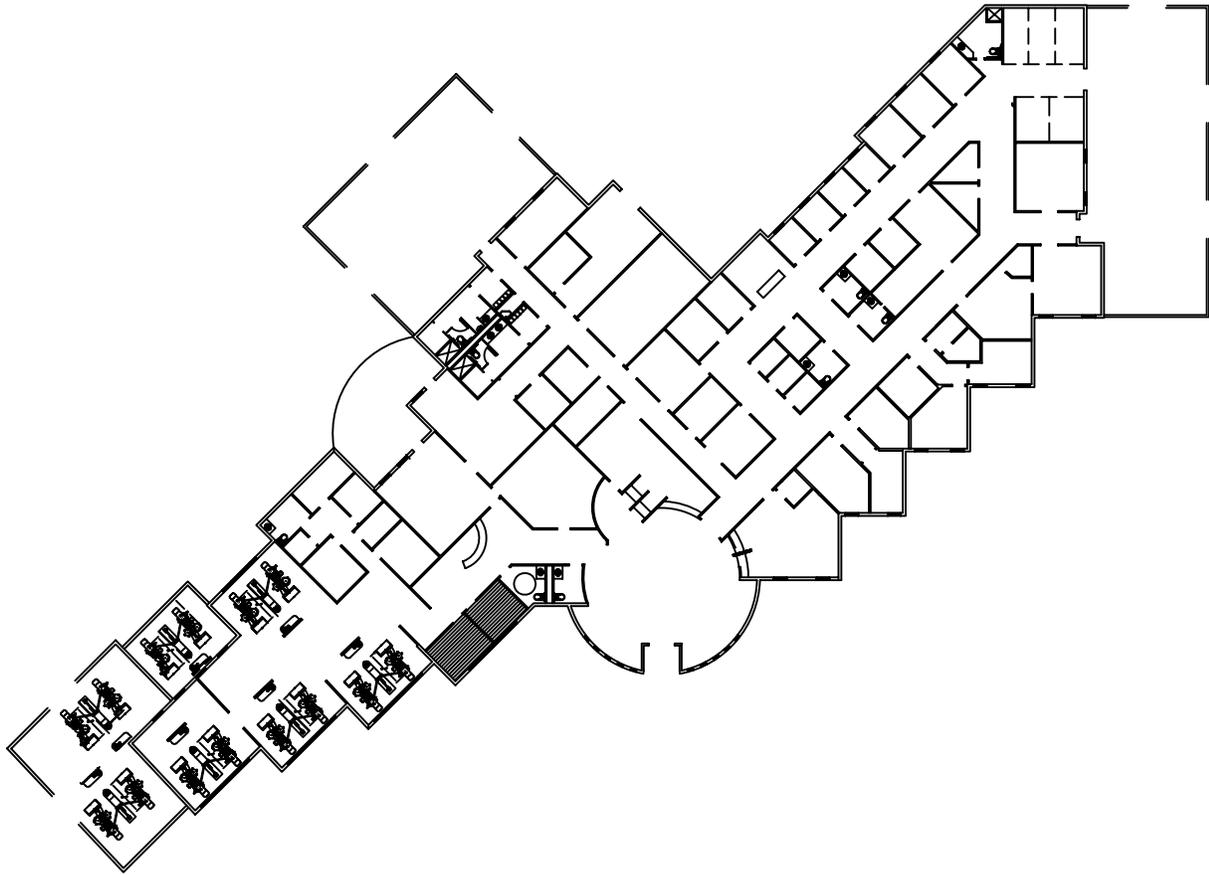
DEPARTMENT: DENTAL
ROOM NAME: EQUIPMENT ROOM
AREA REQUIRED: 50 Square Feet
FUNCTION: Separate room for specialized dental support equipment
ADJACENCIES: Direct or corridor access to dental operatory
SECURITY CONSIDERATIONS: Lockable door
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements

ARCHITECTURAL REQUIREMENTS

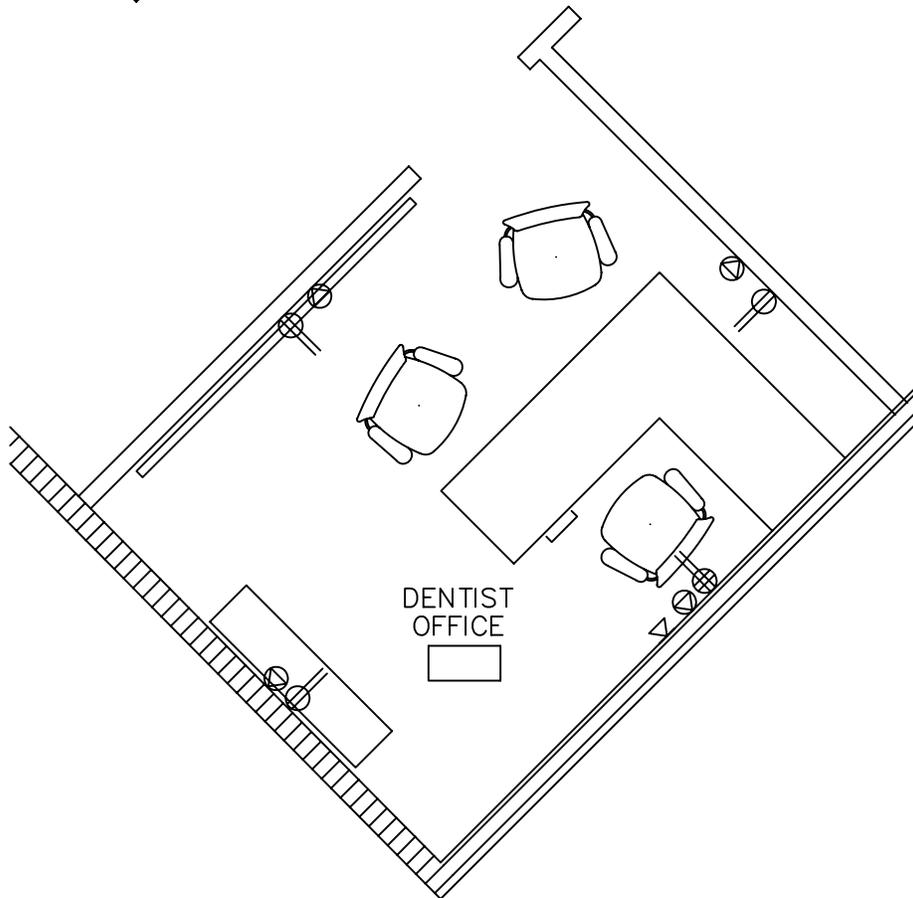
FLOORS: Sealed Concrete
WALLS: Ptd. gyp brd
CEILING: Ptd. gyp brd
CEILING HEIGHT: 9'
DOORS: 3'x7' SC wood
WINDOWS: Not required
SOUND CONSIDERATIONS: None
FIXED EQUIPMENT: Vacuum system for operatory; air compressor; gas support equipment etc.
CNTRS & CSWRK 24" wide countertop w/ 20 ga galvanized metal surface for support of mechanical equipment as required and not supported on floor
MOBILE EQUIPMENT: None
FURNISHINGS: None

ENGINEERING REQUIREMENTS

MECHANICAL: Standard HVAC Enhanced exhaust system
PLUMBING: 18"x24" ss sink w/ winged faucets
ELECTRICAL: 120 volt outlets with number of circuits as required
LIGHTING: 2x4 surface fluorescent
COMMUNICATIONS: (2) Multi-line telephone jack
COMPUTER: (1) Data outlet



KEY PLAN



DENTIST OFFICE

LEGEND

-  Telephone Jack
-  110 V Outlet
-  Data Outlet
-  Pneumatic Outlet
-  Quad 110v Outlet
-  CCTV Outlet

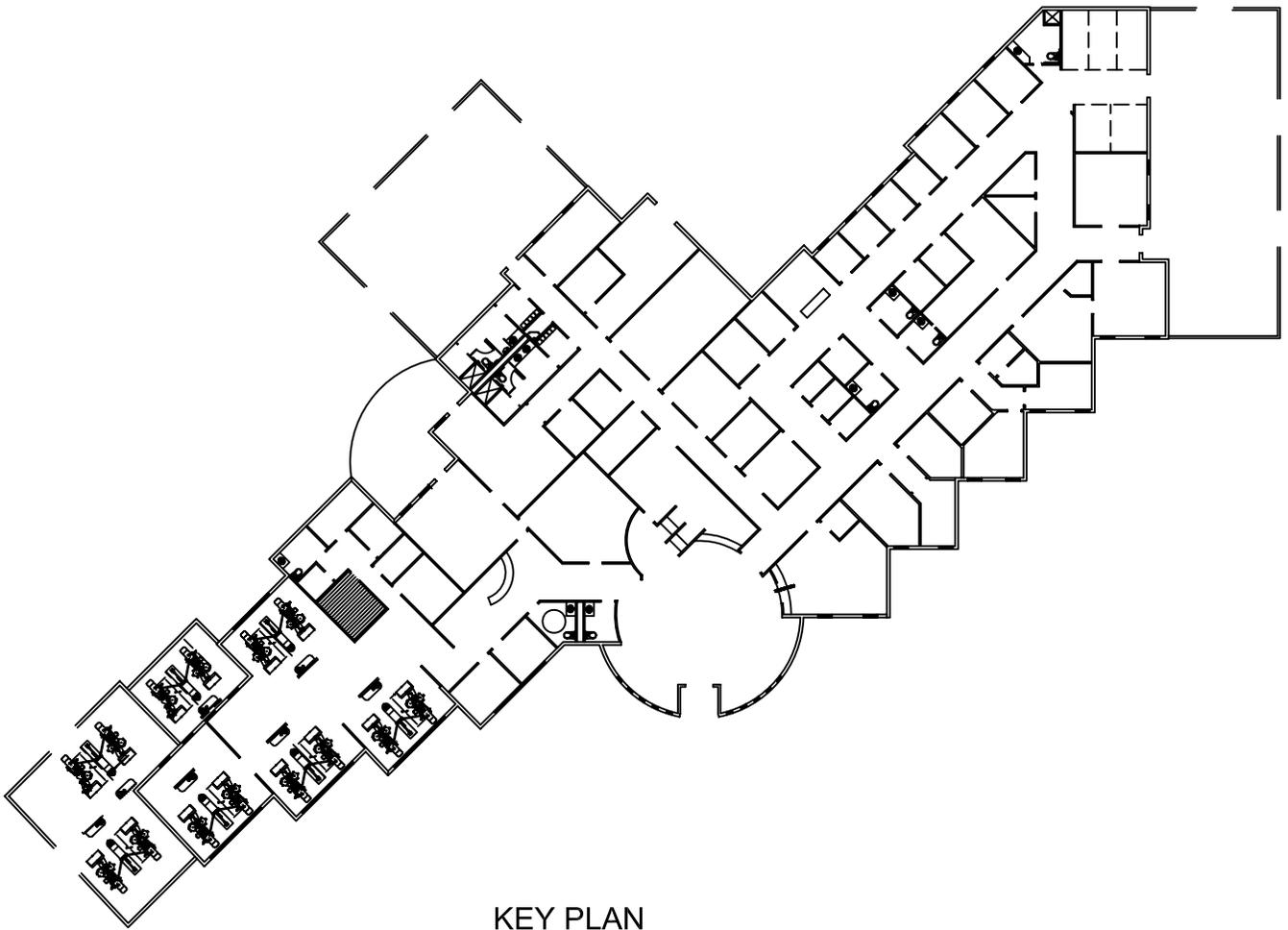
DEPARTMENT: DENTAL
ROOM NAME: DENTISTS OFFICES (2) EACH
AREA REQUIRED: 200 Square Feet
FUNCTION: Office for two dentists
ADJACENCIES: Close corridor access to dental operatory
SECURITY CONSIDERATIONS: Lockable door
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements

ARCHITECTURAL REQUIREMENTS

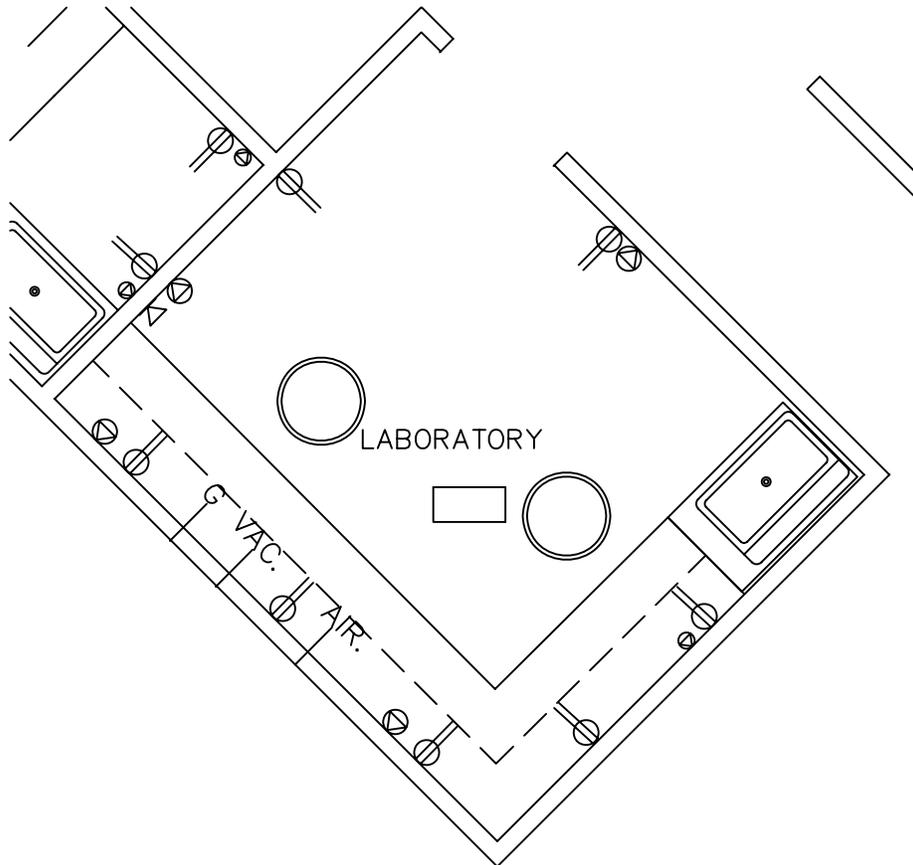
FLOORS: Carpet
WALLS: Ptd gyp brd
CEILING: 2'x4' suspended lay-in acoustical
CEILING HEIGHT: 9'
DOORS: Solid core wood door
WINDOWS: Very desirable to exterior
SOUND CONSIDERATIONS: Sound dampening to and from space
FIXED EQUIPMENT: None
MOBILE EQUIPMENT: None
FURNISHINGS: 6' desk w/ return executive chair, (2) visitor chairs, 4' bookshelves tackboard/markerboard

ENGINEERING REQUIREMENTS

MECHANICAL: Standard HVAC
PLUMBING: None
ELECTRICAL: Standard 120 volt power
LIGHTING: 2x4 lay-in fluorescent
COMMUNICATIONS: (1) Multi-line telephone
COMPUTER: Data outlets on each wall of office



KEY PLAN



LABORATORY

LEGEND

-  Telephone Jack
-  110 V Outlet
-  Data Outlet
-  Pneumatic Outlet
-  Quad 110v Outlet
-  CCTV Outlet

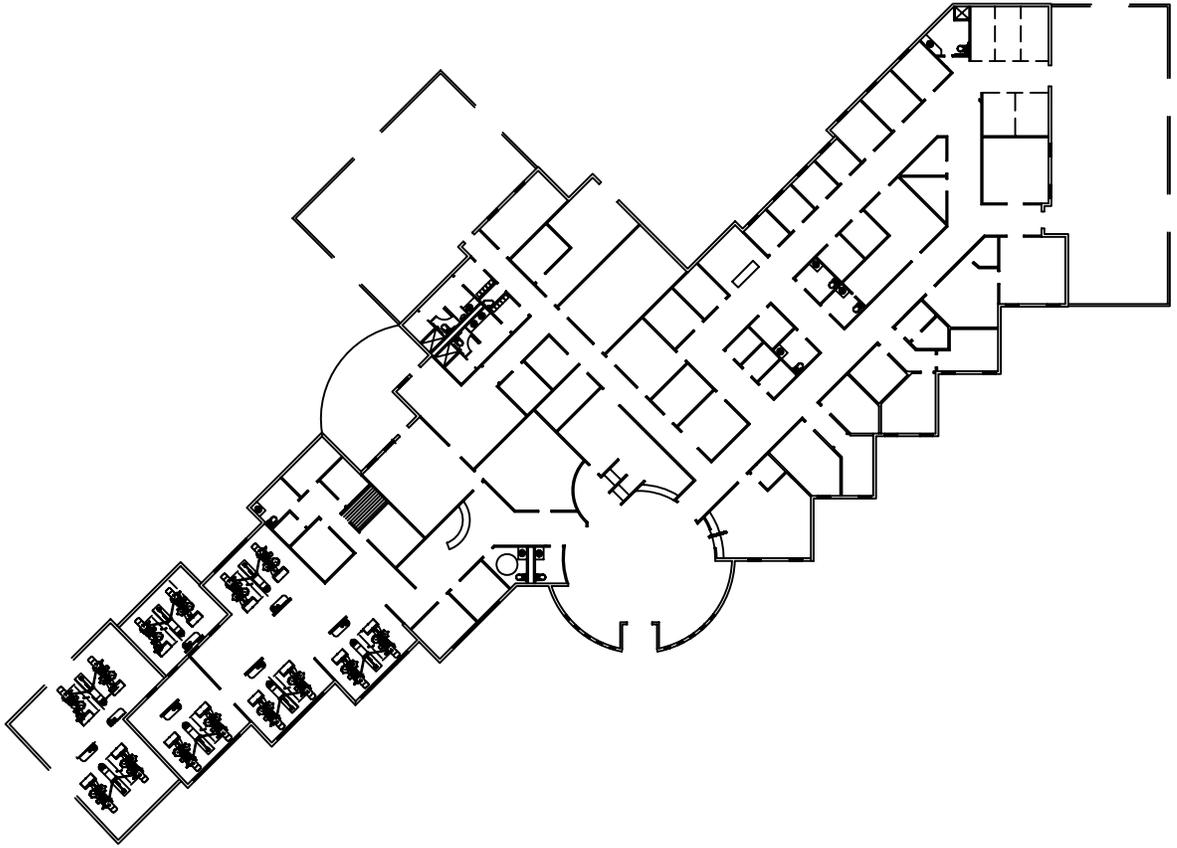
DEPARTMENT: DENTAL
ROOM NAME: LABORATORY
AREA REQUIRED: 110 Square Feet
FUNCTION: Laboratory facility for Dental area (2) technicians
ADJACENCIES: Operatory
SECURITY CONSIDERATIONS: Lockable cabinetry
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements

ARCHITECTURAL REQUIREMENTS

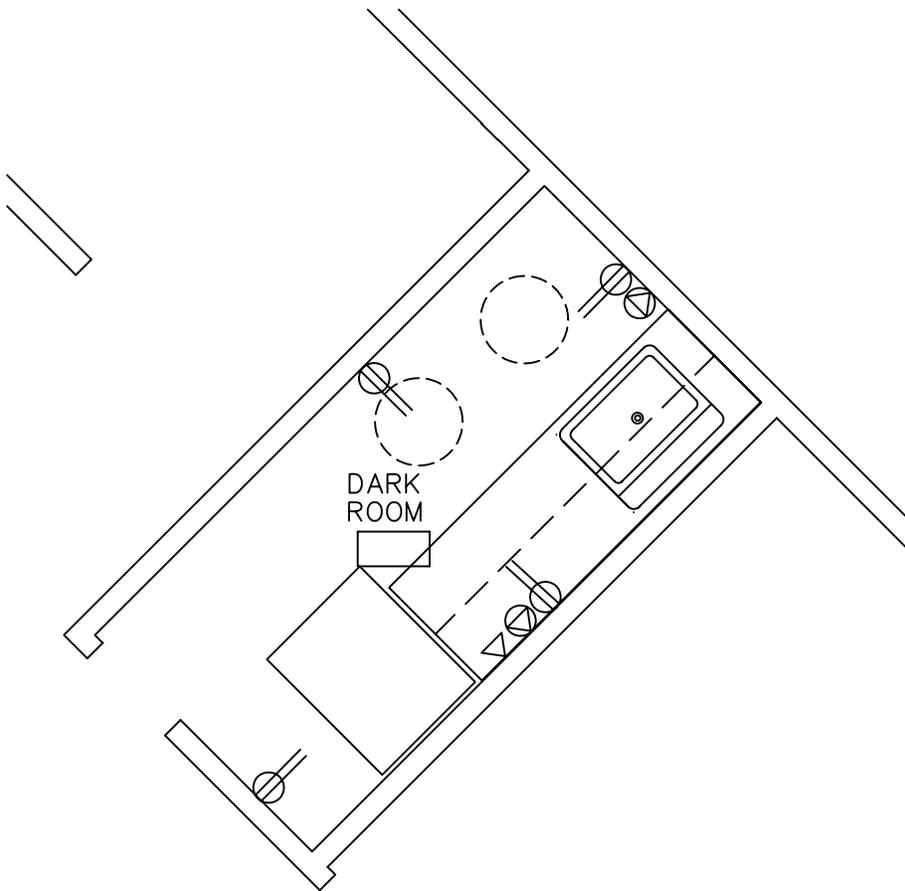
FLOORS: Linoleum
WALLS: Ptd gyp brd where exposed; FRP panels above splash to bottom of upper cabs
CEILING: 2' x4' suspended lay-in acoustical
CEILING HEIGHT: 9'
DOORS: 3'x7' SC Wood
WINDOWS: Desirable
SOUND CONSIDERATIONS: None required
FIXED EQUIPMENT:
CNTRS & CSWRK 15' min. base cab 36" (h); w/24" corian countertop and full height upper cabinets.
MOBILE EQUIPMENT: None
FURNISHINGS: Stools

ENGINEERING REQUIREMENTS

MECHANICAL: Negative pressure with air exhausted out rather than recirculated
PLUMBING: 24"x36" ss sink w/ winged handled soffits; water to grinder; gas; vacuum system piping; compressor piping
ELECTRICAL: (7) Circuit w/120 volt power at countertop
LIGHTING: 2x4 fluorescent lay in fixtures; under cabinet task lighting
COMMUNICATIONS: (1) Multi-line telephone
COMPUTER: (5) Data outlets at countertop



KEY PLAN



DARK ROOM

LEGEND

-  Telephone Jack
-  110 V Outlet
-  Data Outlet
-  Pneumatic Outlet
-  Quad 110v Outlet
-  CCTV Outlet

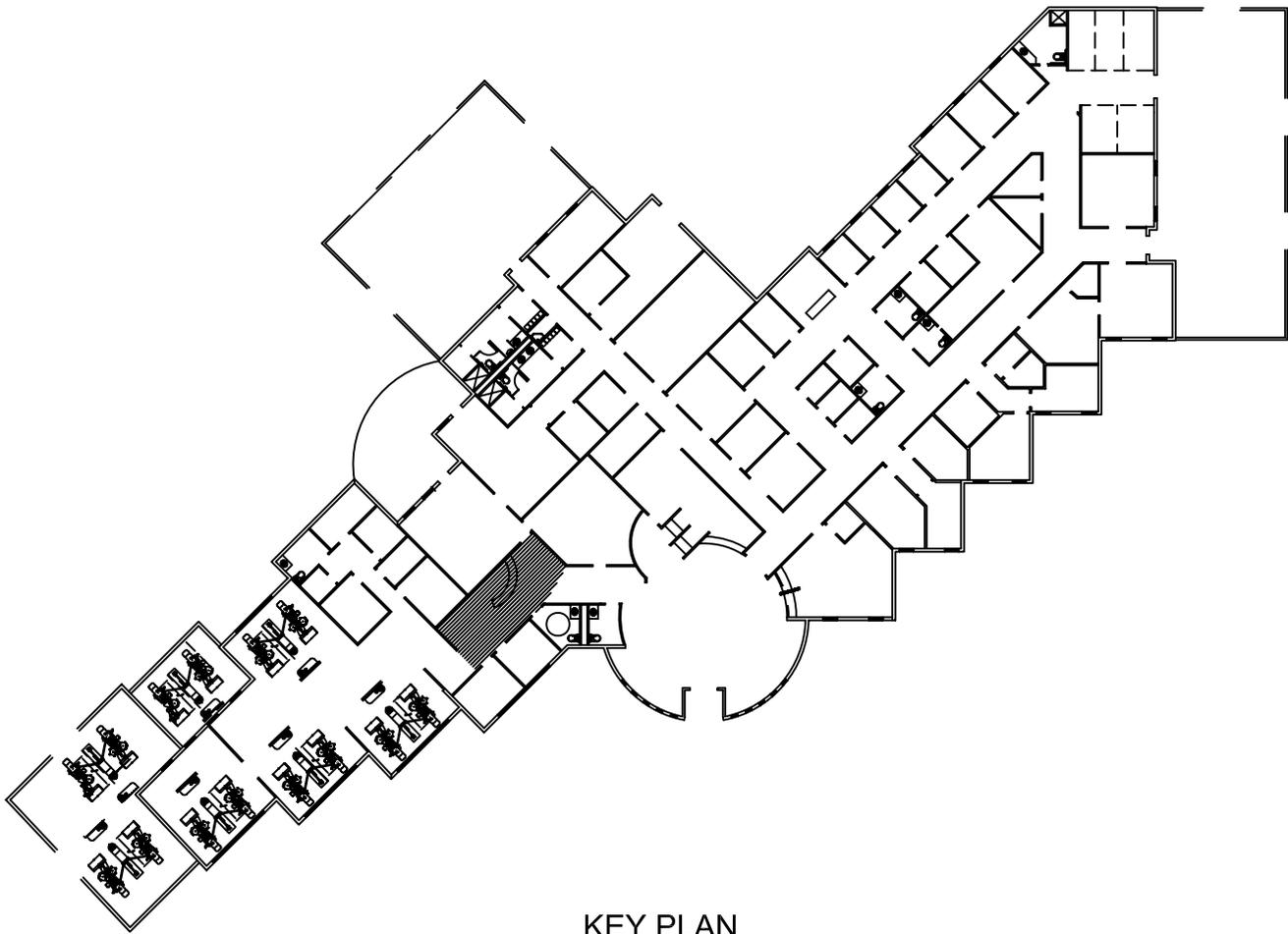
DEPARTMENT: DENTAL
ROOM NAME: DARK ROOM
AREA REQUIRED: 40 Square Feet
FUNCTION: Area for removal of X-ray film and inserting into processing machine
ADJACENCIES: Adjacent to X-ray, Proximate to other diagnostic equipment spaces
SECURITY CONSIDERATIONS: Lockable from corridor
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements

ARCHITECTURAL REQUIREMENTS

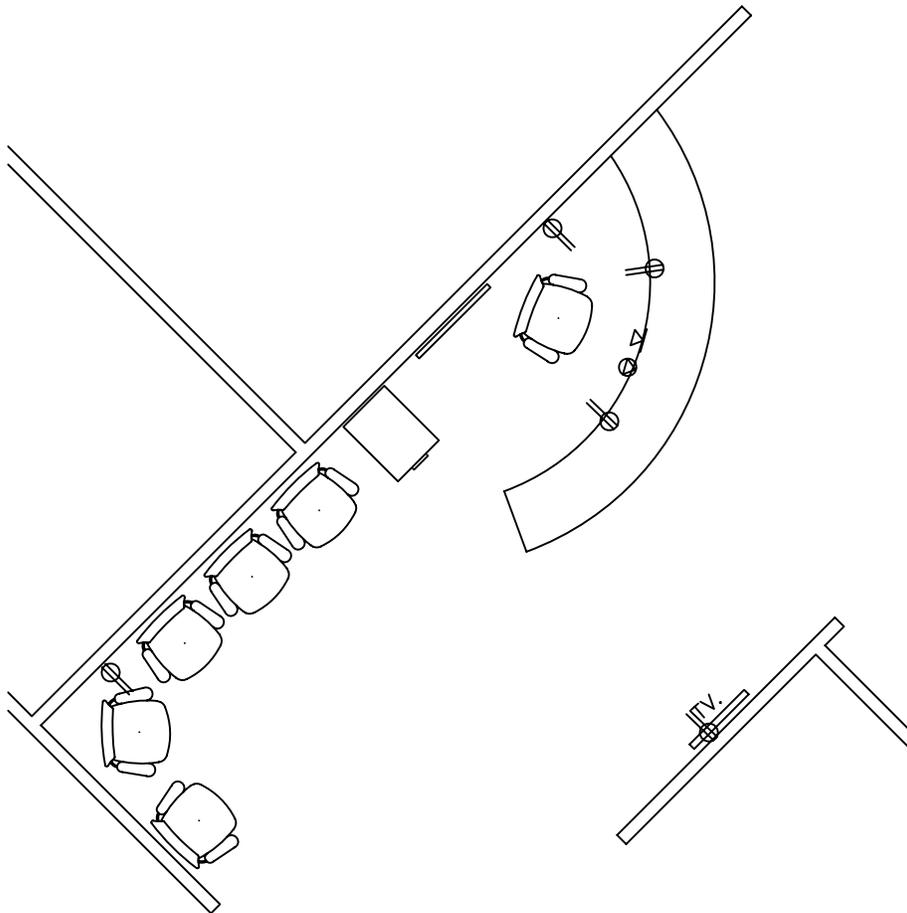
FLOORS: Linoleum
WALLS: Ptd gyp brd
CEILING: 2'x4' suspended lay-in acoustical ceiling
CEILING HEIGHT: 9'
DOORS: 3'x7' SC chemical resistant wood door; 18"x18" opening to X-ray room w/ lockable light proof door
WINDOWS: None
CNTRS/CASEWORK 24" X 6' long x 36" high base cab w/ corian countertop and SS sink; Upper cabs w/ doors and slat wall lining in cabinets
SOUND CONSIDERATIONS: None
FIXED EQUIPMENT: 16"x16" chemical tanks placed on floor; film processor
MOBILE EQUIPMENT: None
FURNISHINGS: Rolling stools as req

ENGINEERING REQUIREMENTS

MECHANICAL: Enhanced HVAC to accommodate equipment heat gain, exhaust fan to exterior via direct ducting to exterior
PLUMBING: 18" x 24" SS sink in countertop w/ winged faucet handles
ELECTRICAL: 120 volt power dedicated power to processor
LIGHTING: Dimmable 2x4 fluorescent lay in
COMMUNICATIONS: (1) Multi-line telephone jack
COMPUTER: Data outlet on two walls



KEY PLAN



ANCILLARY WAITING

LEGEND	
	Telephone Jack
	110 V Outlet
	Data Outlet
	Pneumatic Outlet
	Quad 110v Outlet

DEPARTMENT: DENTAL

ROOM NAME: ANCILLARY WAITING

AREA REQUIRED: 140 Square Feet

FUNCTION: Waiting area for 4-6 dental patients after being processed in main waiting area. prior to being taken into Operatory area; Built-in receptionist desk and counter area.

ADJACENCIES: Dental Operatory, corridor access to main waiting and records area

SECURITY CONSIDERATIONS: None

ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements

ARCHITECTURAL REQUIREMENTS

FLOORS: Carpet

WALLS: Ptd gyp brd;

CEILING: 2' x 4' suspended lay-in acoustical

CEILING HEIGHT: 10'

DOORS: SC Wood door as required

WINDOWS: Very desirable to exterior – not required

SOUND CONSIDERATIONS: Sound dampening within space

FIXED EQUIPMENT: High definition wall mtd. TV

CNTRS & CSWRK 5' x 24" x 8' counter for receptionist and check-in

MOBILE EQUIPMENT: None

FURNISHINGS: (4) to (6) waiting chairs designed to reflect southwestern art and design. 4 drawer file cabinet; tack/marker board

ENGINEERING REQUIREMENTS

MECHANICAL: Negative pressure w/full air exchange HVAC

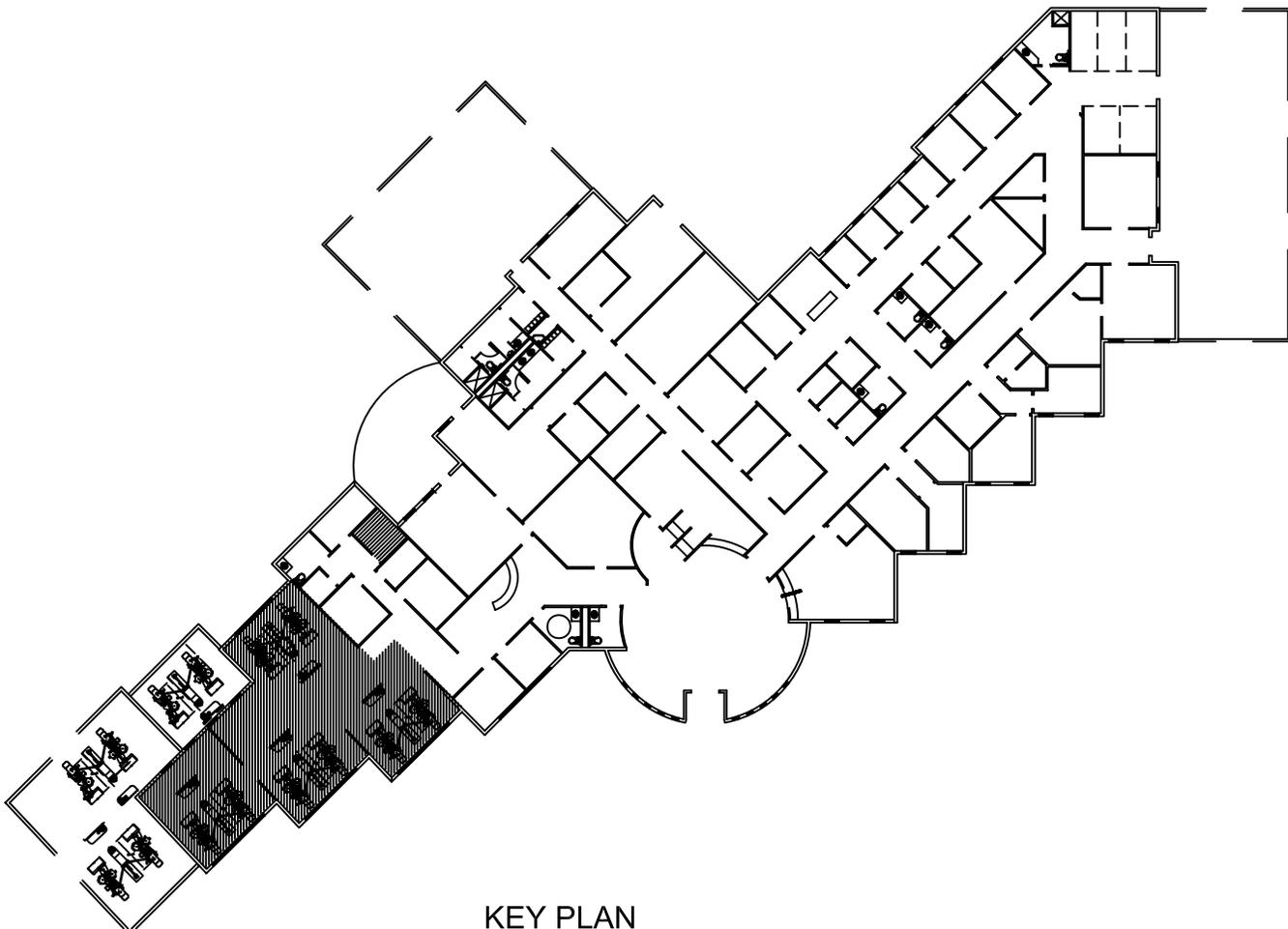
PLUMBING: None

ELECTRICAL: 120 volt outlet at 12" abf

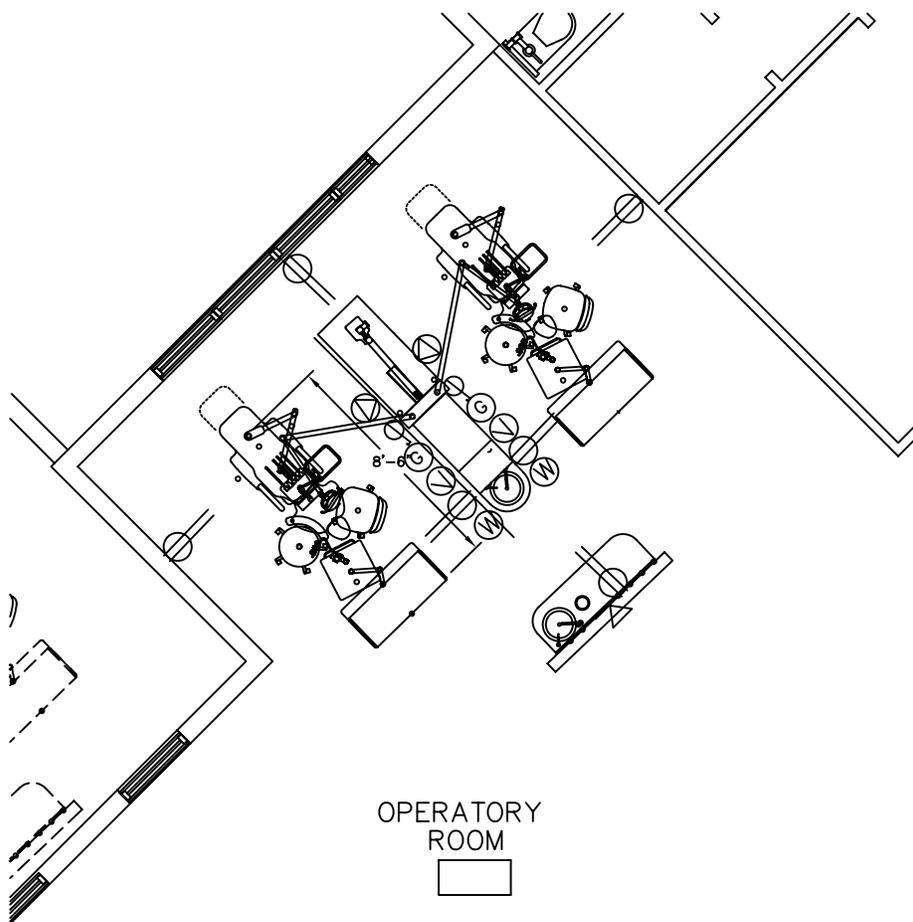
LIGHTING: Fluorescent ambient lighting with incandescent accent lighting

COMMUNICATIONS: Multi-line telephone at receptionist counter

COMPUTER: Data line outlet at each wall and at receptionist counter



KEY PLAN



OPERATORY ROOM

OPERATORY ROOM (PARTIAL)

LEGEND

-  Telephone Jack
-  110 V Outlet
-  Data Outlet
-  Pneumatic Outlet
-  Quad 110v Outlet
-  CCTV Outlet
-  Gas Outlet
-  VAC Outlet
-  Water Outlet

DEPARTMENT: DENTAL

ROOM NAME: OPERATORY

AREA REQUIRED: 1820 Square Feet

FUNCTION: Area for dental treatment of at least 8 dental chairs. Each of two dentist to have ((2.5) chairs apiece; (1) chair for dental hygienist; two chairs for pedeodontics treatment. Pedeodontics to have sound dampening surfaces to reduce overall noise levels within the space

ADJACENCIES: Ancillary dental waiting, operatory support spaces

SECURITY CONSIDERATIONS: Lockable cabinetry

ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements

ARCHITECTURAL REQUIREMENTS

FLOORS: Linoleum

WALLS: Ptd gyp brd where exposed;

CEILING: 2' x4' suspended lay-in acoustical

CEILING HEIGHT: 9'-10'

DOORS: 3'x7' SC Wood , Back Predontic Operatory is enclosed with (2) 2.5' swinging doors

WINDOWS: Desirable

SOUND CONSIDERATIONS: Sound dampening required; White sound acceptable

FIXED EQUIPMENT: Dental chairs and casework

CNTRS & CSWRK Base cab 36" (h); w/24" corian countertop and full height upper cabinets.

MOBILE EQUIPMENT: None

FURNISHINGS: Rolling stools for dentists and hygenist

ENGINEERING REQUIREMENTS

MECHANICAL: Negative pressure with air exhausted out rather than recirculated

PLUMBING: 24"x36" ss sink w/ winged handled soffits at every two dental chairs ; water to chair location; gas; vacuum system piping; compressor piping

ELECTRICAL: (2) Circuits w/120 volt power at each dental chair location; std 120 volt power

LIGHTING: 2x4 fluourescent lay in fixtures ambient lighting, Dental lighting at each chair

COMMUNICATIONS: Multi-line telephone wall mounted

COMPUTER: (1) Data outlet at each chair location

DEPARTMENT: EMERGENCY TREATMENT

DEPARTMENT HEAD: Sylvia Ben / Donna Jensen

SCOPE:

The Treatment Department serves as the Emergency Treatment Room for the Clinic Facility. This ER is the only facility of this nature within a forty-mile radius and must have all of the features necessary to serve any event that may happen in this area. The two Treatment Rooms has been explained by the staff as a necessity because of the likelihood of two such emergency events happening simultaneously is higher than average due to the sheer size of the catchment area involved.

Since a high percentage of the treatment room usage will involve accidents, the X-ray room and other diagnostic functions must be located adjacent to and directly accessible from at least one of the treatment rooms. The second treatment room must be within close proximity of the X-ray room as well.

The treatment room should have all of the necessary equipment and layout to facilitate an efficient doctor and assistant (providers) flow. Equipment should be wall mounted as much as possible to free up floor space and should be located to reduce interference with provider circulation. The layout of the room and equipment within will be the most important aspect of the design of this space and should be accomplished with “state of the art” advice and direction.

KEY RELATIONSHIPS

- A. Outside direct entrance to the Treatment Room
- B. Direct access and connection to the X-ray room and other diagnostic function areas
- C. Direct access to Storage room

SITE IMPLICATIONS AND REQUIREMENTS

- A. Drive way access and back-in capability to the treatment room door
- B. “Out of the way parking” or “dwell” areas for ambulances and other emergency vehicles

GENDER IMPLICATIONS

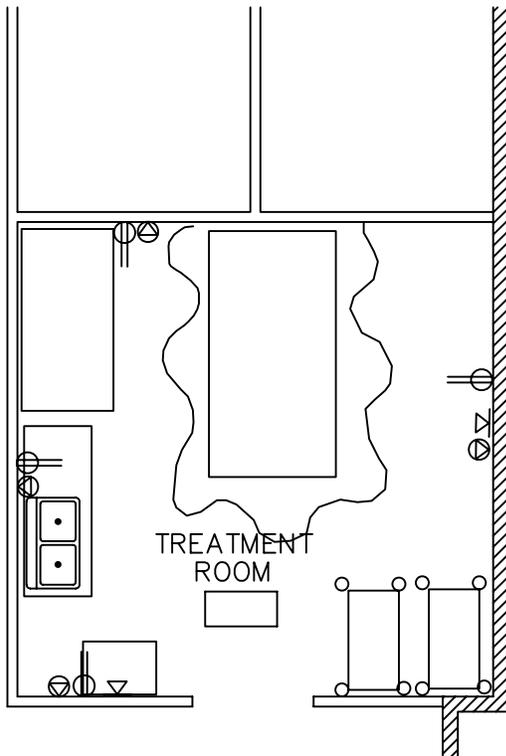
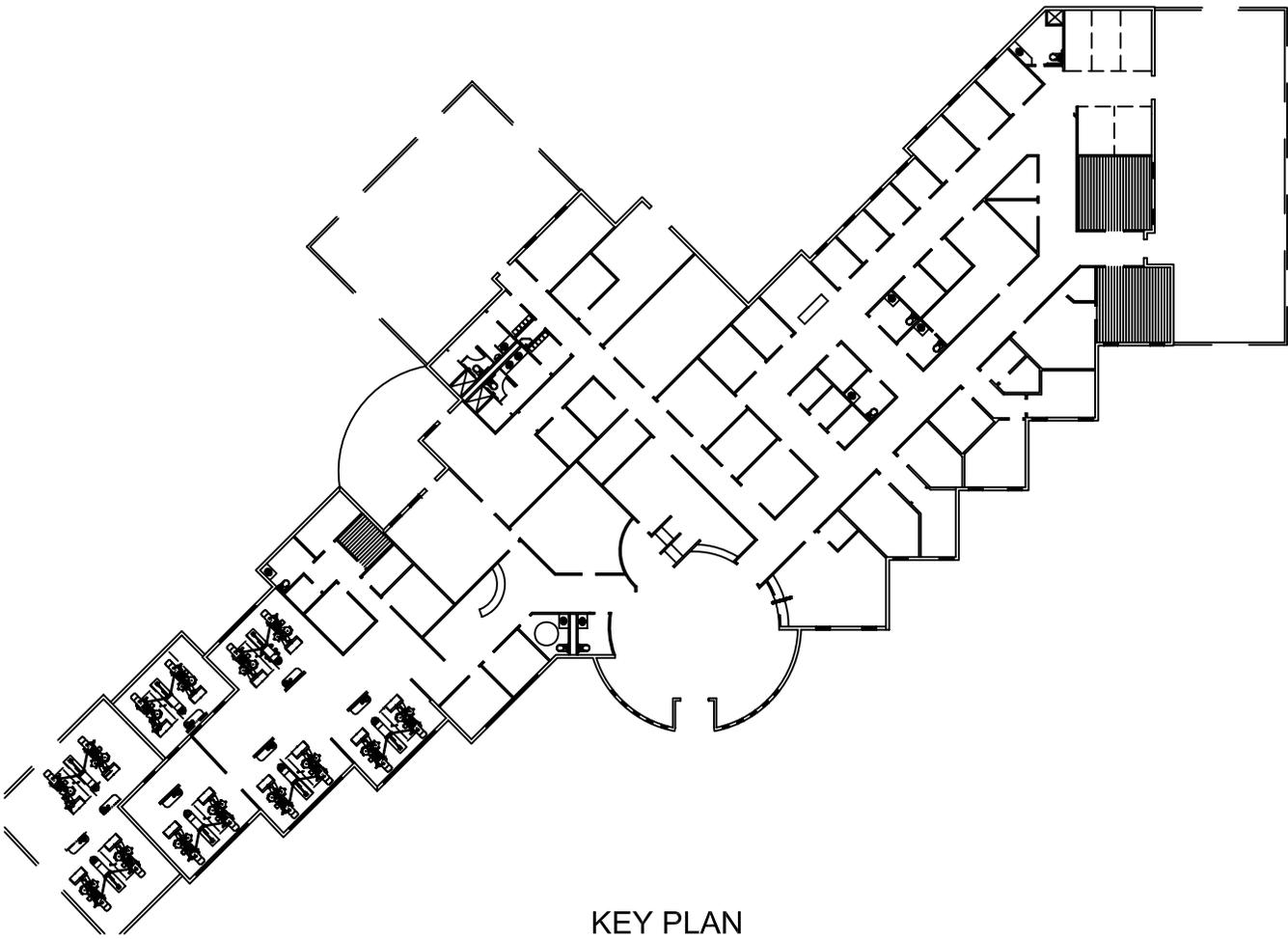
None

OTHER REQUIREMENTS

INDIVIDUAL SPACES / ROOMS

Treatment Rooms	
(2) each 250 Square Feet	500 Square Feet total
Treatment Room Storage	100 Square Feet

REMARKS



LEGEND	
	Telephone Jack
	110 V Outlet
	Data Outlet
	Pneumatic Outlet
	Quad 110v Outlet
	CCTV Outlet

TREATMENT ROOM

DEPARTMENT: EMERGENCY TREATMENT

ROOM NAME: TREATMENT ROOMS (2 EACH)

AREA REQUIRED: 250 Square Feet / 500 Square Feet Total

FUNCTION: Will serve as an Emergency Room Treatment facility to handle all types of required procedures within the area previously described.

ADJACENCIES: X-ray room, Exterior driveway and access, Canopy at door

SECURITY CONSIDERATIONS: Lockable door at entry way

ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements

ARCHITECTURAL REQUIREMENTS

FLOORS: Linoleum

WALLS: Painted gyp brd; Slat wall with pegboard appliances

CEILING: 2'x4' suspended lay-in ceiling system

CEILING HEIGHT: 10'

DOORS: 4'x7' hollow metal door with thrust pivot hinges, ADA push button door opening system. 3'x7' door to x-ray

WINDOWS: Not required

SOUND CONSIDERATIONS: None

FIXED EQUIPMENT: Overhead light fixture on extension arm; Wall mounted ear eye check 2'x4' algorithm chart, wall-mounted vital sign machine

CNTRS AND CASEWRK Base cabinet with wall cabinets on patient right side; 3'x 6'x 18" Linen Storage cabinet

MOBILE EQUIPMENT: 2'x3' crash cart; Adjacent cart w/ Defribulator, suction; Non-stress test cart; Gurney; IV System (Rolling)

FURNISHINGS: Curtain separation

ENGINEERING REQUIREMENTS

MECHANICAL: Enhanced exhaust capability

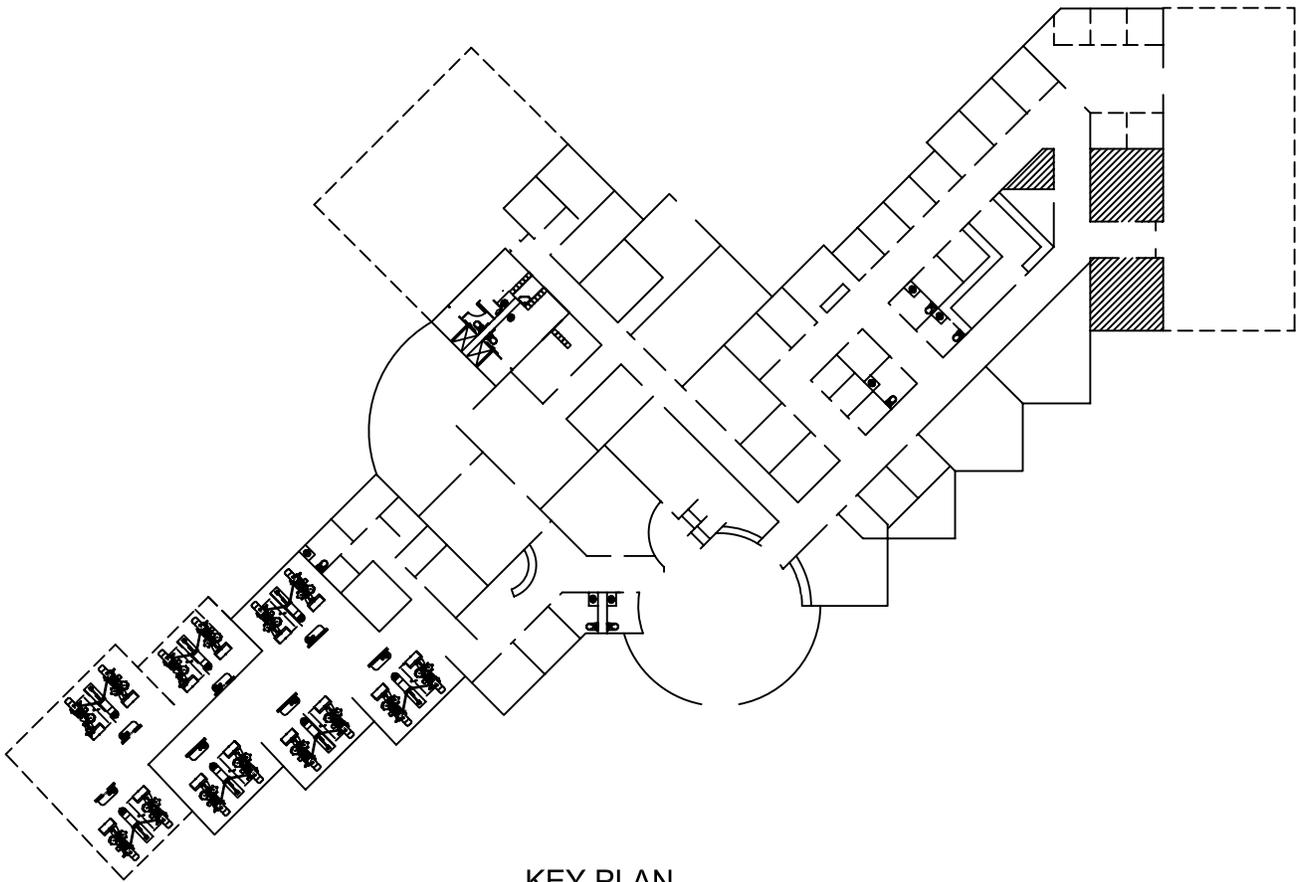
PLUMBING: Double stainless steel sink with ADA lever activated faucets. 10"x18" stainless steel scrub sink; Shower Decontamination; Oxygen tank storage or piping from central tank storage

ELECTRICAL: 120 volt for equipment, separate circuits, std 120 volt powered room

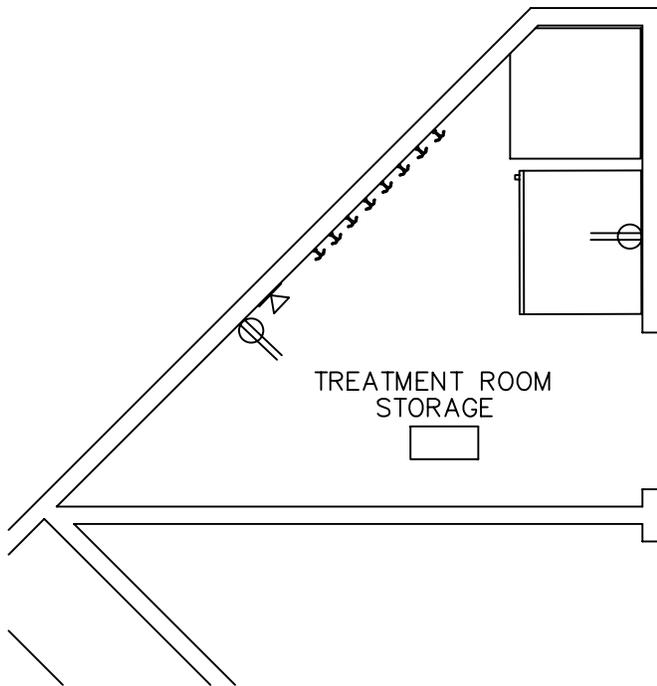
LIGHTING: Over head fluorescent 50 FC with dimmer capability

COMMUNICATIONS: (2) Multi-lane telephones wall mounted

COMPUTER: Data outlets at each wall



KEY PLAN



TREATMENT ROOM STORAGE

LEGEND	
	Telephone Jack
	110 V Outlet
	Data Outlet
	Pneumatic Outlet
	Quad 110v Outlet
	CCTV Outlet

DEPARTMENT: EMERGENCY TREATMENT
ROOM NAME: TREATMENT ROOM STORAGE
AREA REQUIRED: 100 Square Feet
FUNCTION: Storage for all items for Treatment Room: Folded wheel chairs. Stacked crutches. Splint cart; Laundry bag; other
ADJACENCIES: Treatment Room
SECURITY CONSIDERATIONS: Lockable Door
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements.

ARCHITECTURAL REQUIREMENTS

FLOORS: Linoleum
WALLS: Painted gyp brd: Slat wall
CEILING: 2'x4' suspended lay-in ceiling tile
CEILING HEIGHT: 9' min
DOORS: 3'x7' hollow metal
WINDOWS: None
SOUND CONSIDERATIONS: None
FIXED EQUIPMENT: Pegged hangers for crutches
MOBILE EQUIPMENT: None
FURNISHINGS: 15 cu ft refrigerator w/ freezer

ENGINEERING REQUIREMENTS

MECHANICAL: Standard HVAC
PLUMBING: None
ELECTRICAL: 120v outlet 18"abf
120v outlet @ 42"abf for recharge units
LIGHTING: Surface or lay-in fluorescent
COMMUNICATIONS: None
COMPUTER: None

DEPARTMENT: GENERAL CLINIC

DEPARTMENT HEAD: Sylvia Ben/ Donna Jensen

SCOPE:

The General Clinic Area (GCA) is the heart of the entire facility and will be by far, the most utilized and occupied part of the building. Patients will experience a several step process as they enter the GCA from the main waiting area. Screening will be the initial step for the patient and will occur in one of three screening rooms. After screening patients will be moved to one of seven exam rooms for visits by medical personnel and the doctors.

Some patients may then be relocated to special educational rooms for discussions of treatments or self-procedures required.

Patient flow should be confined to only areas required for their treatment. Visual or psychological barriers to prevent patient “wandering” will be a necessary part of the architecture of the facility.

Doctor’s offices will be located together and within the GCA but very proximate to the exam rooms and within a short distance to the pharmacy prescription intake window.

It will be important that all rooms of similar function, i.e.: exam rooms, screening rooms, be laid out exactly alike given the point of entry and that the nursing station have a visual control of all areas pertinent to their jurisdiction and control.

It will also be important that all circulation and infrastructure be planned as an I-Occupancy space which will dictate certain corridor widths, door sizes and other criteria to achieve an I Occupancy rated facility if required.

KEY RELATIONSHIPS

The GCA must relate to all areas of the facility except perhaps the dental area and some of the administrative functions. Diagnostics, Laboratory, and Pharmacy are key functional relationships of the GCA and should be very proximate to the exam rooms and nursing station.

SITE IMPLICATIONS AND REQUIREMENTS

As with all other functions not requiring direct outside accessibility, the major site implication will be the ability of the department to expand without impacting other functional areas or the GCA area in its present configuration. Expansion should be undertaken and completed without impacting a 100% use rate of the existing facility.

GENDER IMPLICATIONS

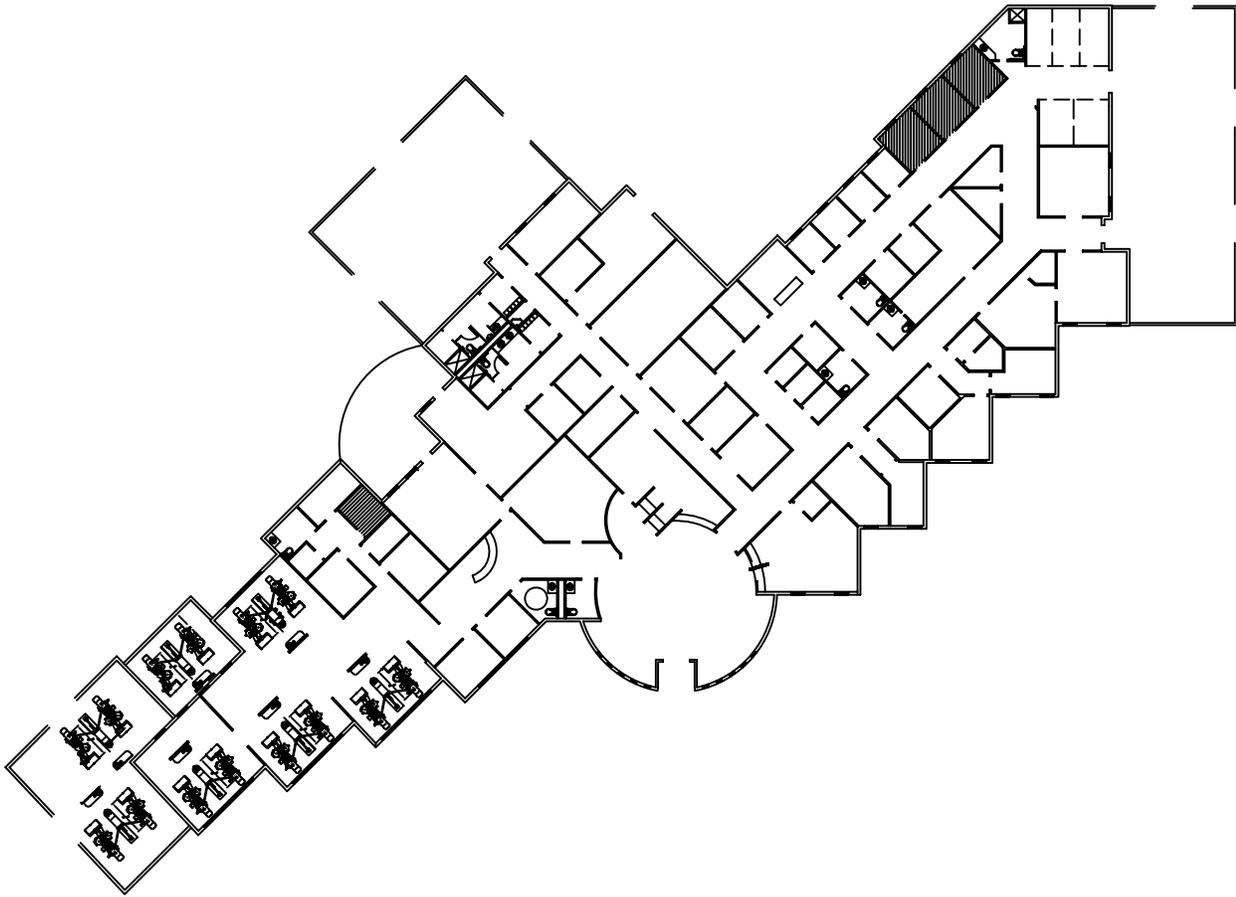
Unisex restrooms will be provided for the patients within the GCA, at least one of which will be located with sliding window access to the laboratory. Staff restrooms will be gender specific and will be located within the GCA area.

OTHER REQUIREMENTS

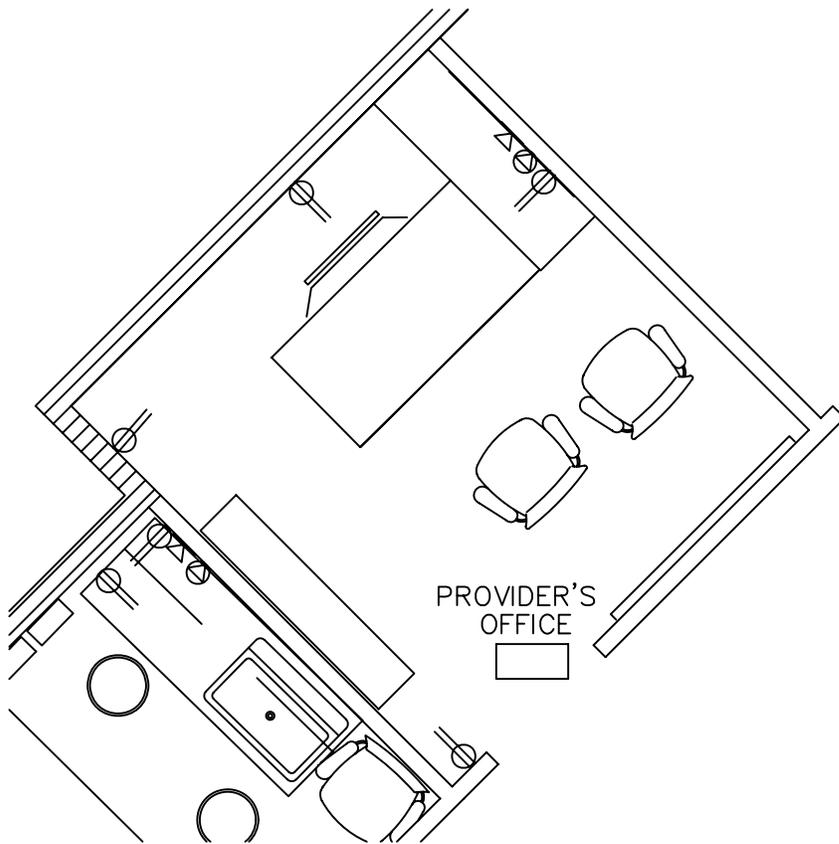
Individual Spaces/Rooms

Provider's Offices (3) 10'x10'/100 Square feet	300 Square feet total
Diabetes Offices (2) 100 Square feet	170 Square feet total
Nurses Station - Exam Rooms (7)60 Square Feet	420 Square feet total
Diabetes Educator- Utility Room	80 Square feet 64 Square feet
Screening Rooms (3)40 Square feet	120 Square feet total
Storage Room	60 Square feet

REMARKS



KEY PLAN



PROVIDER'S OFFICES

LEGEND

-  Telephone Jack
-  110 V Outlet
-  Data Outlet
-  Pneumatic Outlet
-  Quad 110v Outlet
-  CCTV Outlet

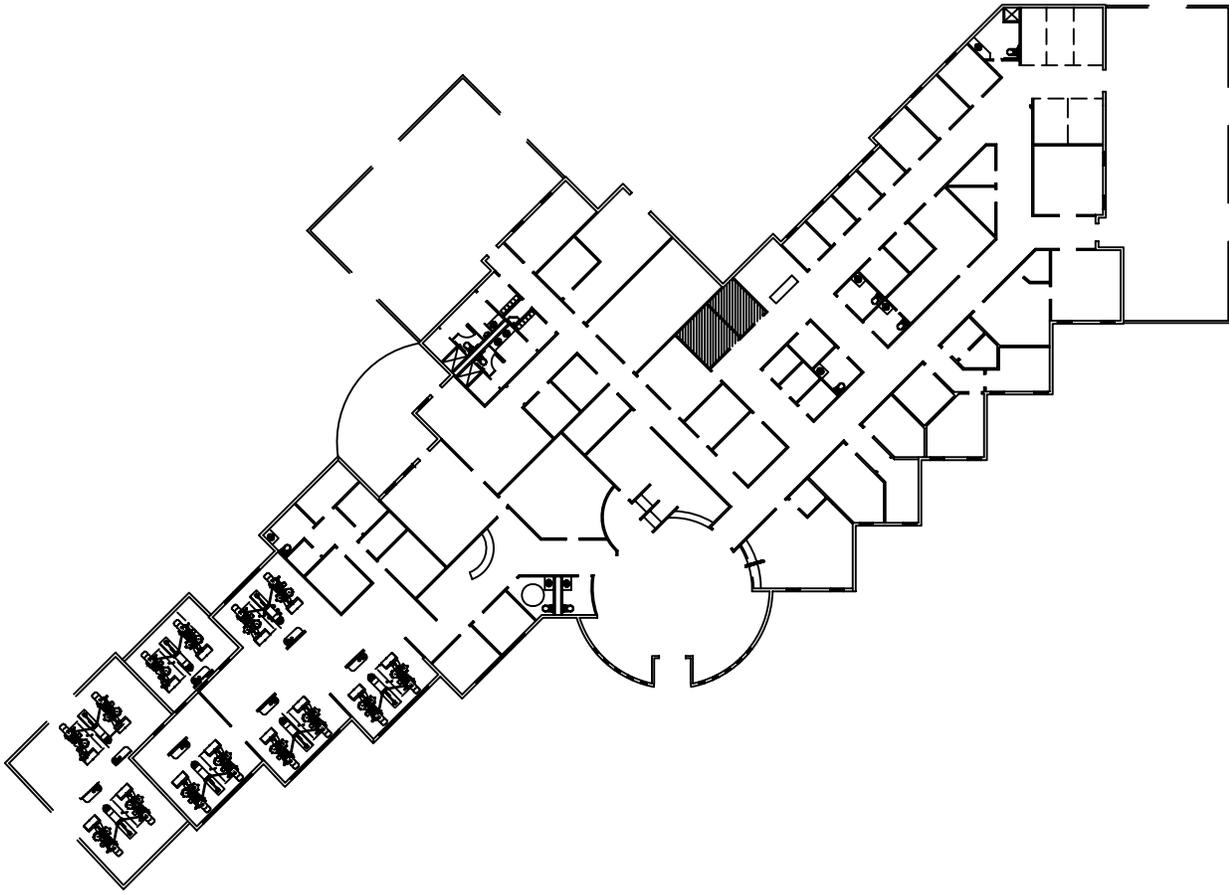
DEPARTMENT: GENERAL CLINIC
ROOM NAME: PROVIDER'S OFFICE (3 REQUIRED)
AREA REQUIRED: 100 Square Feet
FUNCTION: Office for Health Provider
ADJACENCIES: Corridor access to Exam Rooms
SECURITY CONSIDERATIONS: Lockable door
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements

ARCHITECTURAL REQUIREMENTS

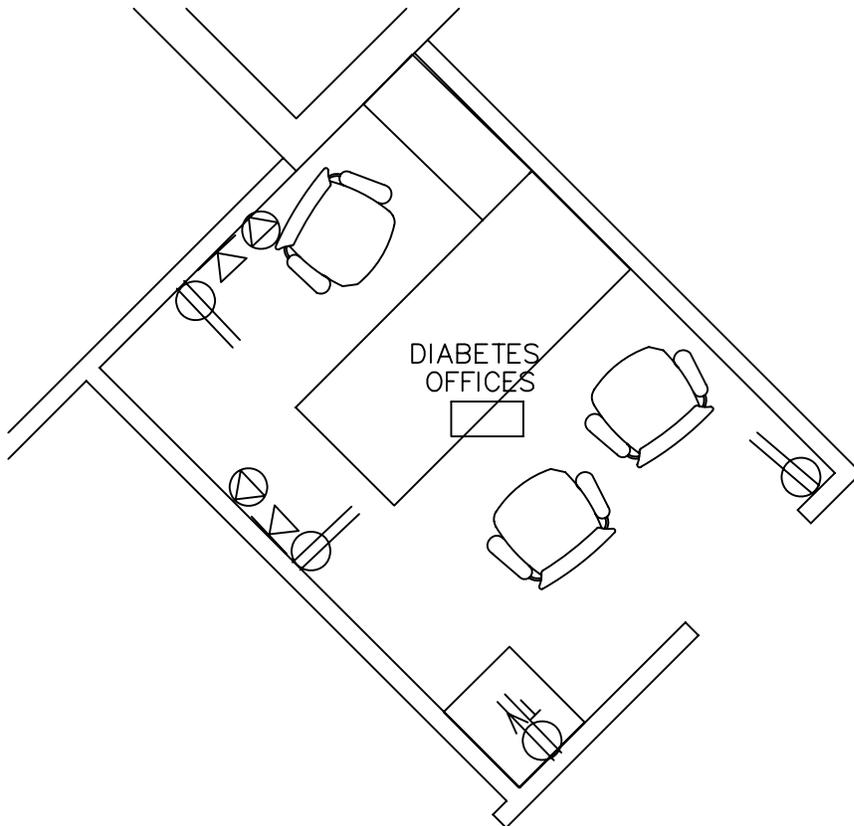
FLOORS: Carpet
WALLS: Painted Gypsum board
CEILING: 2'x4' suspended lay-in
CEILING HEIGHT: 9' -10'
DOORS: 3'x7' SC wood
WINDOWS: Desirable
SOUND CONSIDERATIONS: High STC rating for privacy sound transmission
FIXED EQUIPMENT: None
CNTRS & CSWRK: None
MOBILE EQUIPMENT: None
FURNISHINGS: 60" desk with return Office chair, (2) visitor chairs, 30"x 60" split white/cork board, 12"x3"x 60" floor mounted bookshelves

ENGINEERING REQUIREMENTS

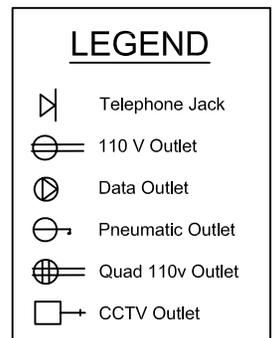
MECHANICAL: Standard HVAC
PLUMBING: None
ELECTRICAL: Std 120 volt outlets
LIGHTING: 2x4 suspended fluorescent lay-in
COMMUNICATIONS: (1) Multi-line telephone
COMPUTER: (1) Data outlet



KEY PLAN



DIABETES OFFICES



DEPARTMENT: GENERAL CLINIC

ROOM NAME: DIABETES OFFICES (2 each)

AREA REQUIRED: 85' Square Feet - 170 Square Feet Total

FUNCTION: Room for discussions with 1 to 3 patients

ADJACENCIES: Corridor access to Exam Rooms
Dr. offices

SECURITY CONSIDERATIONS: Lockable door

ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements.

ARCHITECTURAL REQUIREMENTS

FLOORS: Carpet

WALLS: Vinyl wall covering

CEILING: 2'x4' suspended lay-in

CEILING HEIGHT: 9'

DOORS: 3'x7' SC wood

WINDOWS: Desirable

SOUND CONSIDERATIONS: High STC rating for privacy sound transmission, white sound ideal

FIXED EQUIPMENT: Built in or wall mounted TV DVD/VCR

CNTRS & CSWRK:

MOBILE EQUIPMENT:

FURNISHINGS: Desk chair

ENGINEERING REQUIREMENTS

MECHANICAL: Standard HVAC

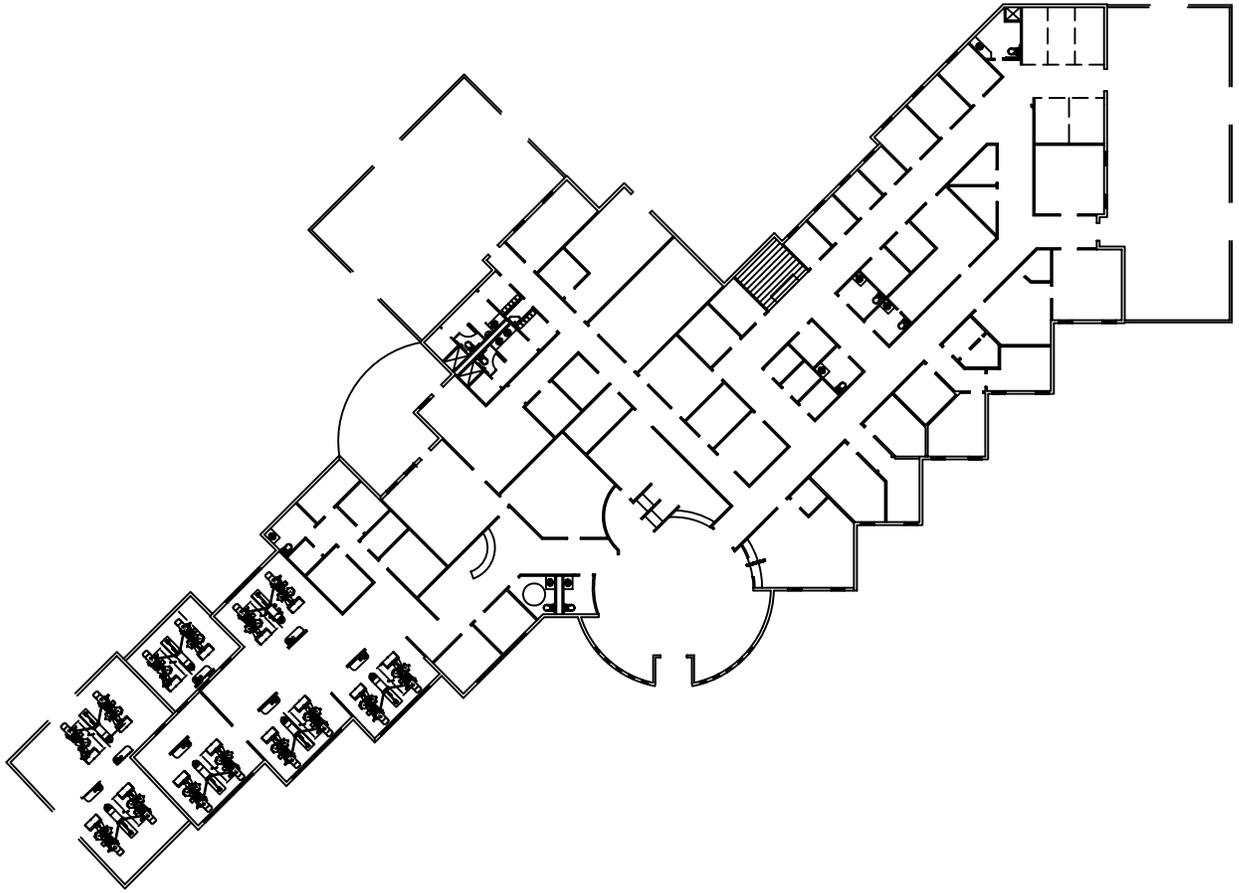
PLUMBING: None

ELECTRICAL: Std 120 volt outlets

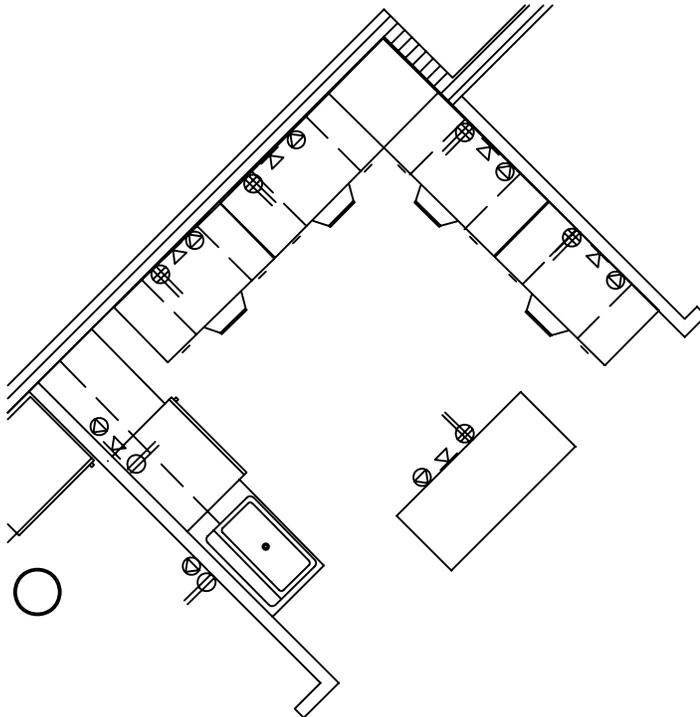
LIGHTING: 2x4 suspended fluorescent lay-in

COMMUNICATIONS: (2) Multi-line telephone

COMPUTER: (2) Data outlets



KEY PLAN



NURSES STATION

LEGEND

-  Telephone Jack
-  110 V Outlet
-  Data Outlet
-  Pneumatic Outlet
-  Quad 110v Outlet
-  CCTV Outlet

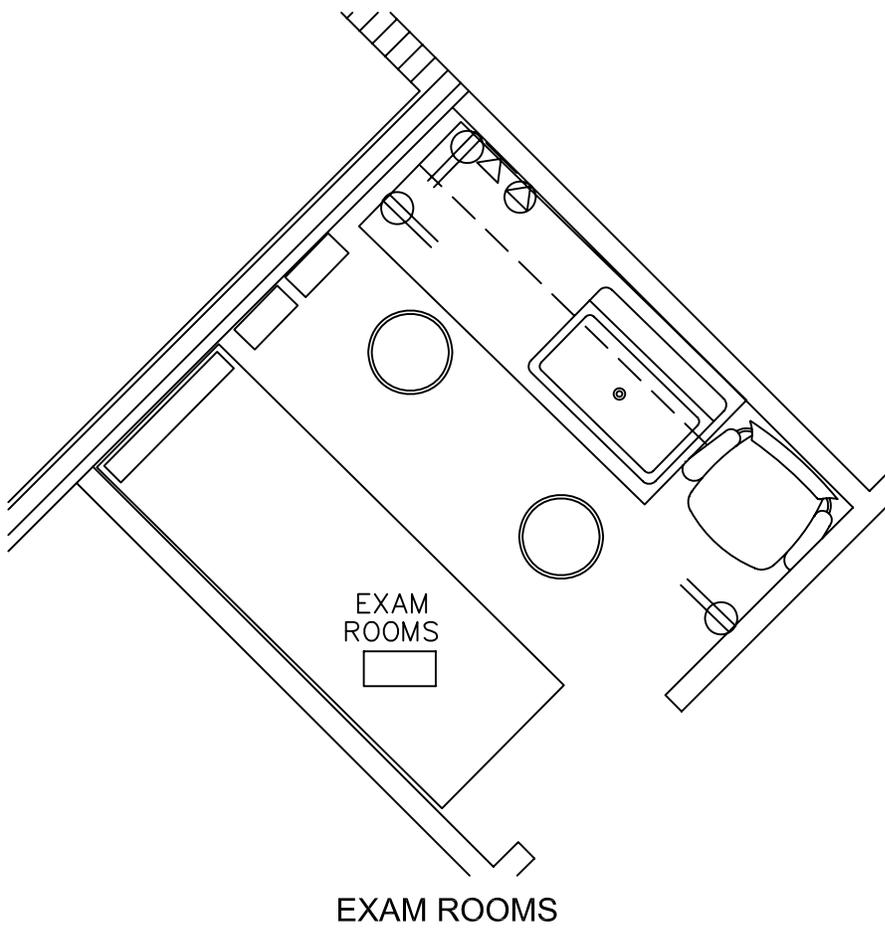
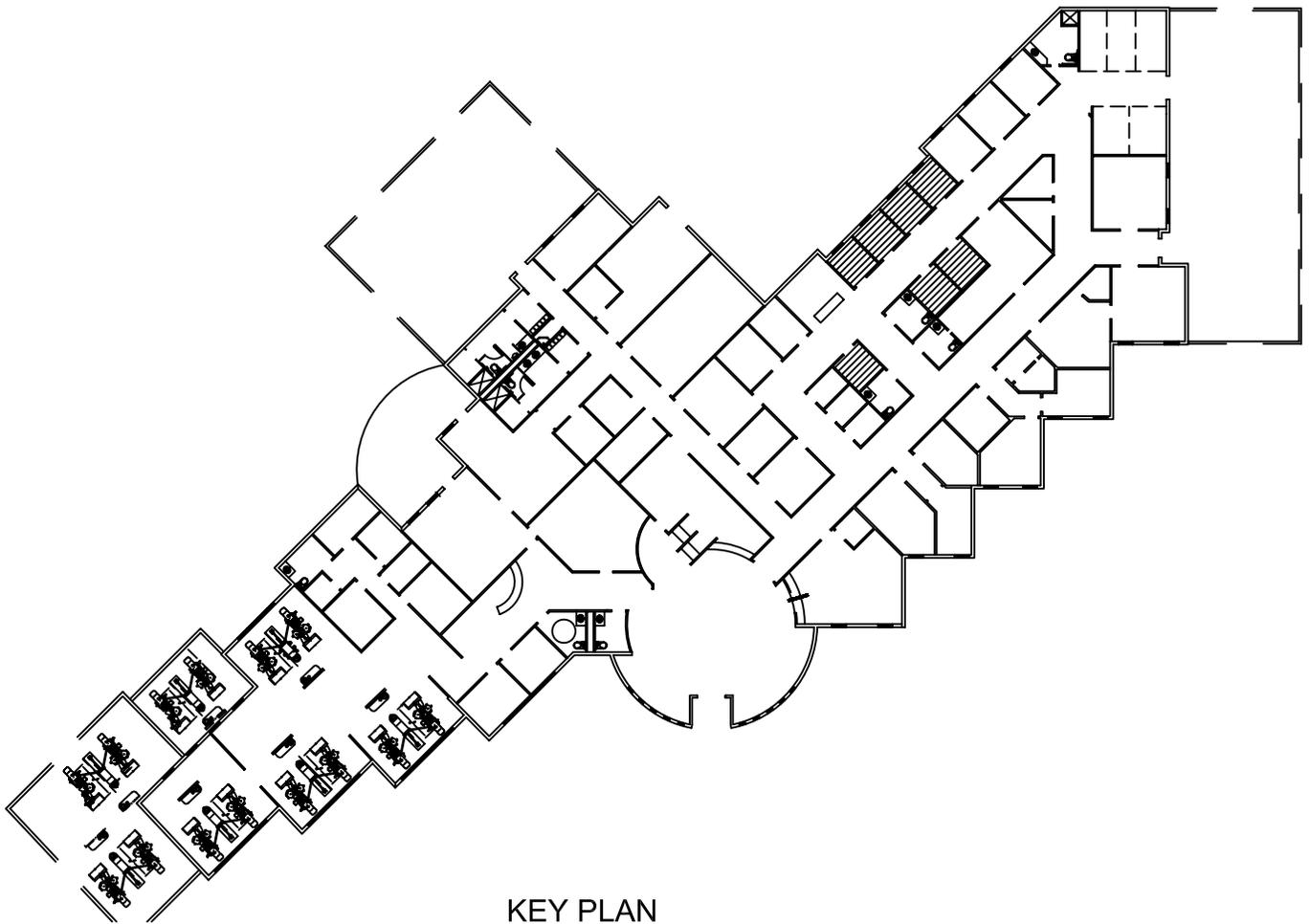
DEPARTMENT: GENERAL CLINIC
ROOM NAME: NURSES STATION
AREA REQUIRED: 140 Square Feet
FUNCTION: Station Area for (12) nurses; (4) per shift
ADJACENCIES: Immediate corridor access to screening/exam rooms
Dr. offices
SECURITY CONSIDERATIONS: Lockable cabinets
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements.

ARCHITECTURAL REQUIREMENTS

FLOORS: Linoleum
WALLS: Open on at least three sides; Painted gyp. brd.
CEILING: 2' x 4' suspended lay-in
CEILING HEIGHT: 9'
DOORS: 3' x 7' SC wood
WINDOWS: Desirable
SOUND CONSIDERATIONS: High STC rating for privacy sound tras.
FIXED EQUIPMENT: 2'x4' work station for (4) nurses
(8) Under-counter file cabinets, 10 cubic-foot refrigerator
CNTRS & CSWRK Base and upper cabs w/ corian countertop
MOBILE EQUIPMENT: None
FURNISHINGS: 4 chairs, rolling stool

ENGINEERING REQUIREMENTS

MECHANICAL: Negative pressure HVAC w/ enhanced exhaust system
PLUMBING: Wall mounted hand sink w/ winged faucet handles
ELECTRICAL: Std 120 volt outlets, quad-outlet at each work station
LIGHTING: 2x4 lay-in fluorescent
COMMUNICATIONS: (1) Multi-line telephone at each work station
COMPUTER: (1) Data outlet at each nurse work station.



LEGEND	
	Telephone Jack
	110 V Outlet
	Data Outlet
	Pneumatic Outlet
	Quad 110v Outlet
	CCTV Outlet

DEPARTMENT: GENERAL CLINIC

ROOM NAME: EXAM ROOMS (7 each)

AREA REQUIRED: 60 Square Feet - 420 Square Feet Total

FUNCTION: Patient examination room w/ all layouts identical
Adequate area for multiple occupants

ADJACENCIES: Screening rooms
Dr. offices

SECURITY CONSIDERATIONS: Privacy lock

ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements.

ARCHITECTURAL REQUIREMENTS

FLOORS: Linoleum

WALLS: Vinyl wall covering

CEILING: 2 x 4' suspended lay-in

CEILING HEIGHT: 9'

DOORS: 3' x 7' SC wood

WINDOWS: Desirable

SOUND CONSIDERATIONS: High STC rating for privacy sound tras.

FIXED EQUIPMENT: Wall mounted vital sign equipment, fixed exam table

CNTRS & CSWRK Base and upper cabs w/ corian countertop

MOBILE EQUIPMENT:

FURNISHINGS: (2) rolling stools

ENGINEERING REQUIREMENTS

MECHANICAL: Negative pressure HVAC w/ enhanced exhaust system

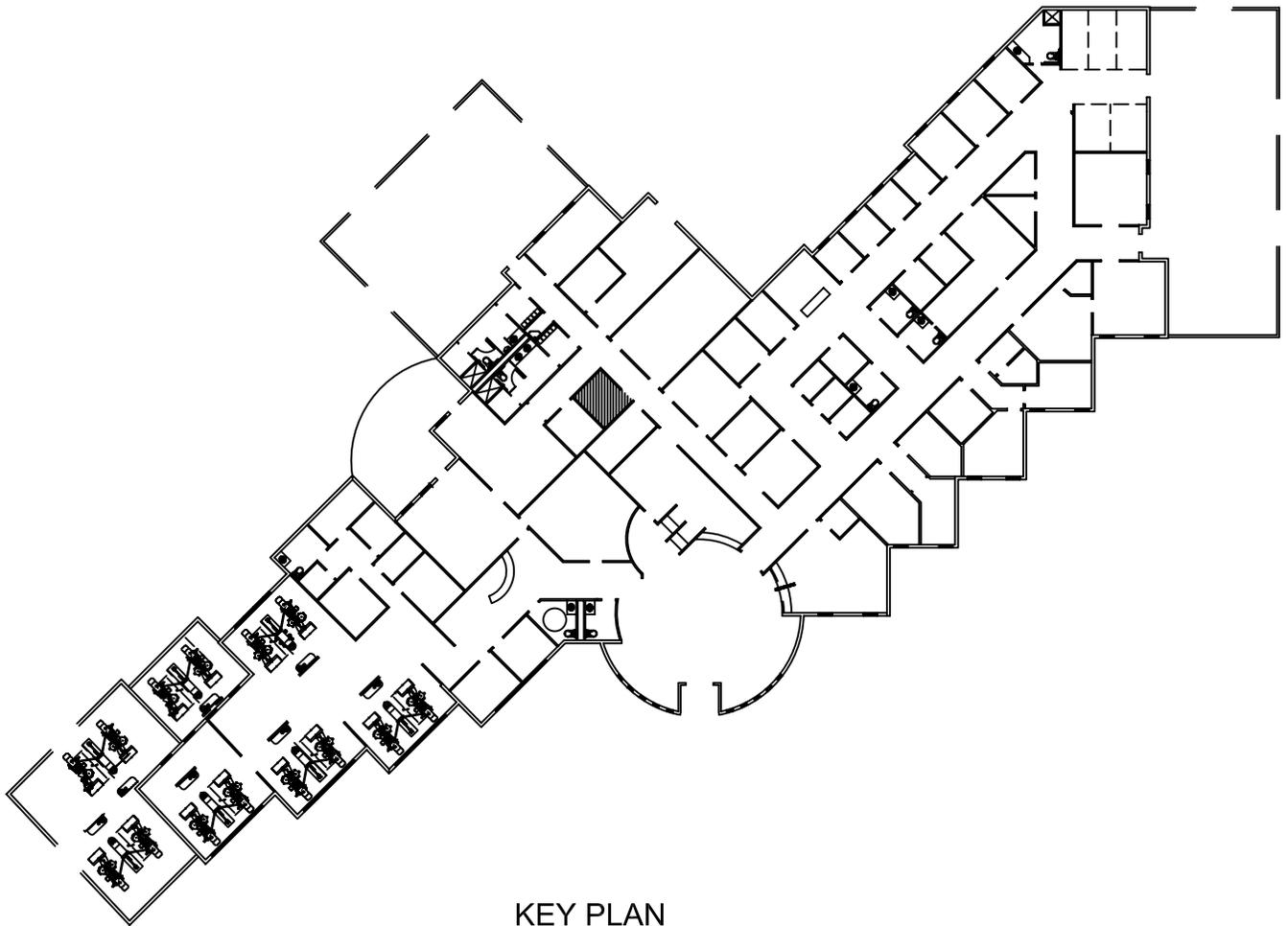
PLUMBING: 12" x 18" SS sink

ELECTRICAL: Std 120 volt outlets

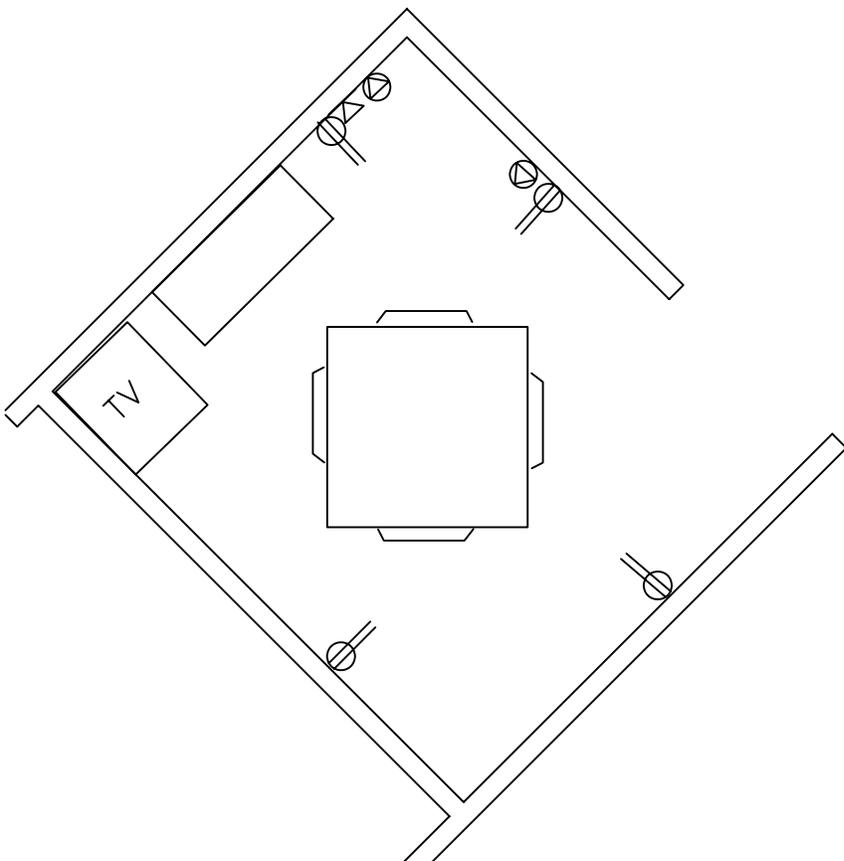
LIGHTING: 2x4 suspended fluorescent lay-in

COMMUNICATIONS: (1) Multi-line telephone

COMPUTER: (1) Data outlet



KEY PLAN



DIABETES OUTREACH

LEGEND

-  Telephone Jack
-  110 V Outlet
-  Data Outlet
-  Pneumatic Outlet
-  Quad 110v Outlet
-  CCTV Outlet

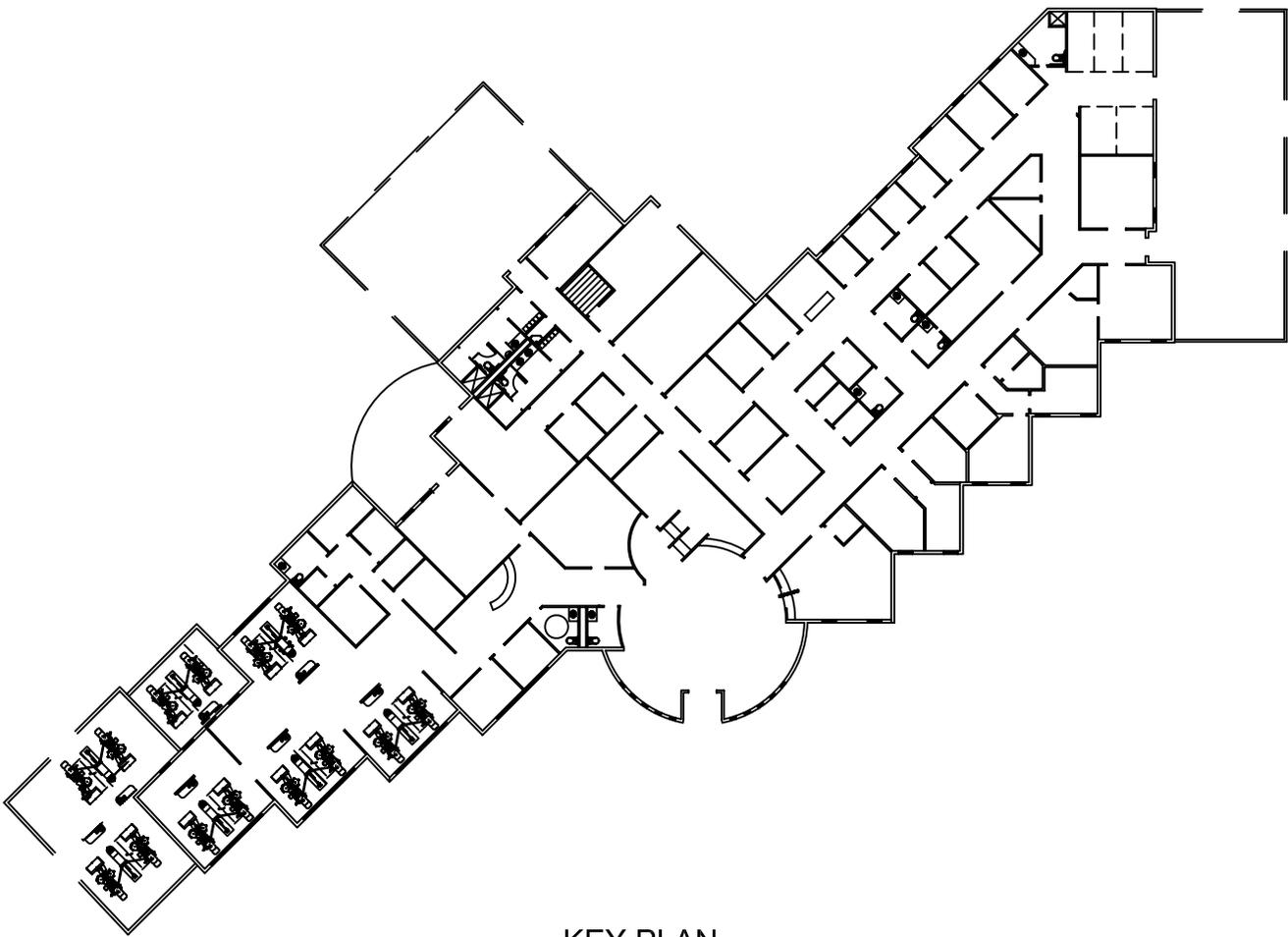
DEPARTMENT: GENERAL CLINIC
ROOM NAME: DIABETES OUTREACH ROOM
AREA REQUIRED: 80' Square Feet
FUNCTION: Room for discussions with 1 to 3 patients
ADJACENCIES: Corridor access to Exam Rooms
Dr. offices
SECURITY CONSIDERATIONS: Passage lock
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements.

ARCHITECTURAL REQUIREMENTS

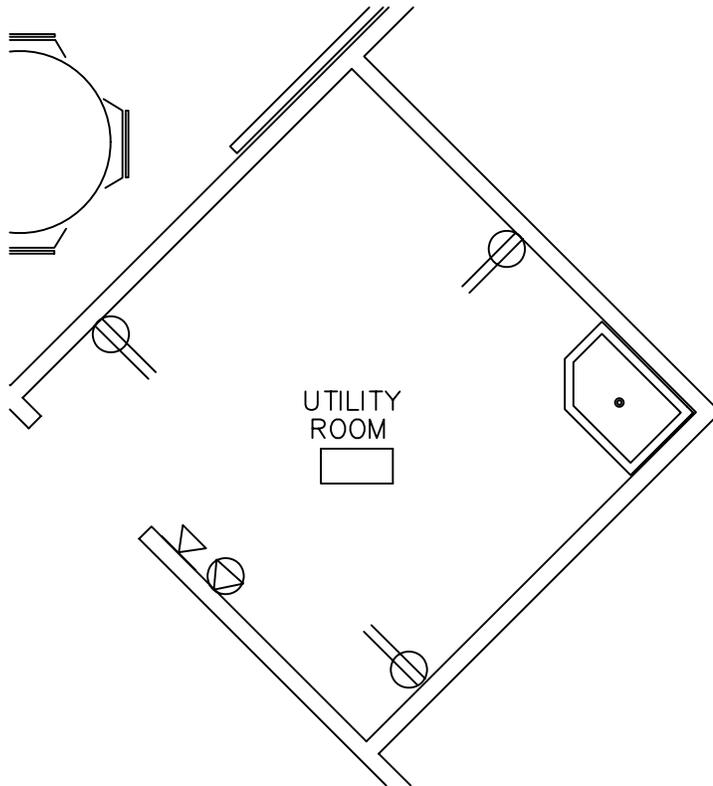
FLOORS: Carpet
WALLS: Vinyl wall covering
CEILING: 2'x4' suspended lay-in
CEILING HEIGHT: 9'
DOORS: 3'x7' SC wood
WINDOWS: Desirable
SOUND CONSIDERATIONS: High STC rating for privacy sound tras. White sound ideal
FIXED EQUIPMENT: Built in or wall mounted TV DVD/VCR
CNTRS & CSWRK Shelving 4'-0"x5'-0"x12"
MOBILE EQUIPMENT:
FURNISHINGS: 40" square round table w/ 4 chairs

ENGINEERING REQUIREMENTS

MECHANICAL: Standard HVAC
PLUMBING: None
ELECTRICAL: Std 120 volt outlets
LIGHTING: 2x4 fluorescent lay-in
COMMUNICATIONS: (1) Multi-line telephone
COMPUTER: (2) Data outlets



KEY PLAN



UTILITY ROOM

LEGEND

-  Telephone Jack
-  110 V Outlet
-  Data Outlet
-  Pneumatic Outlet
-  Quad 110v Outlet
-  CCTV Outlet

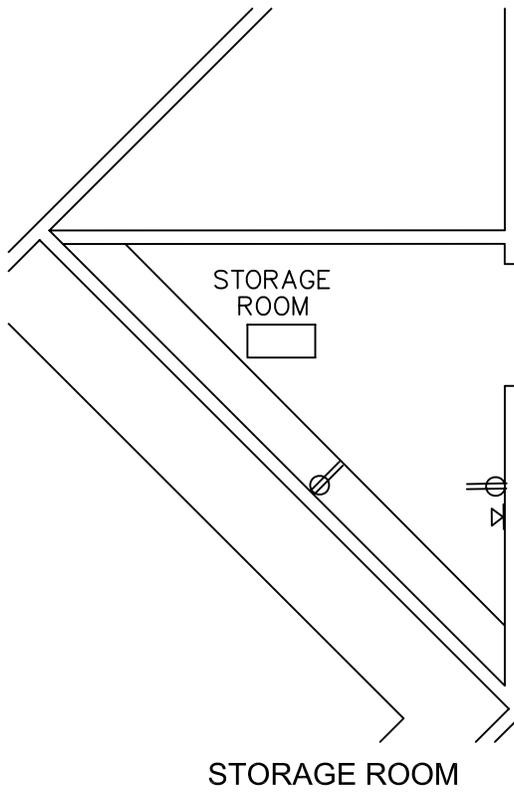
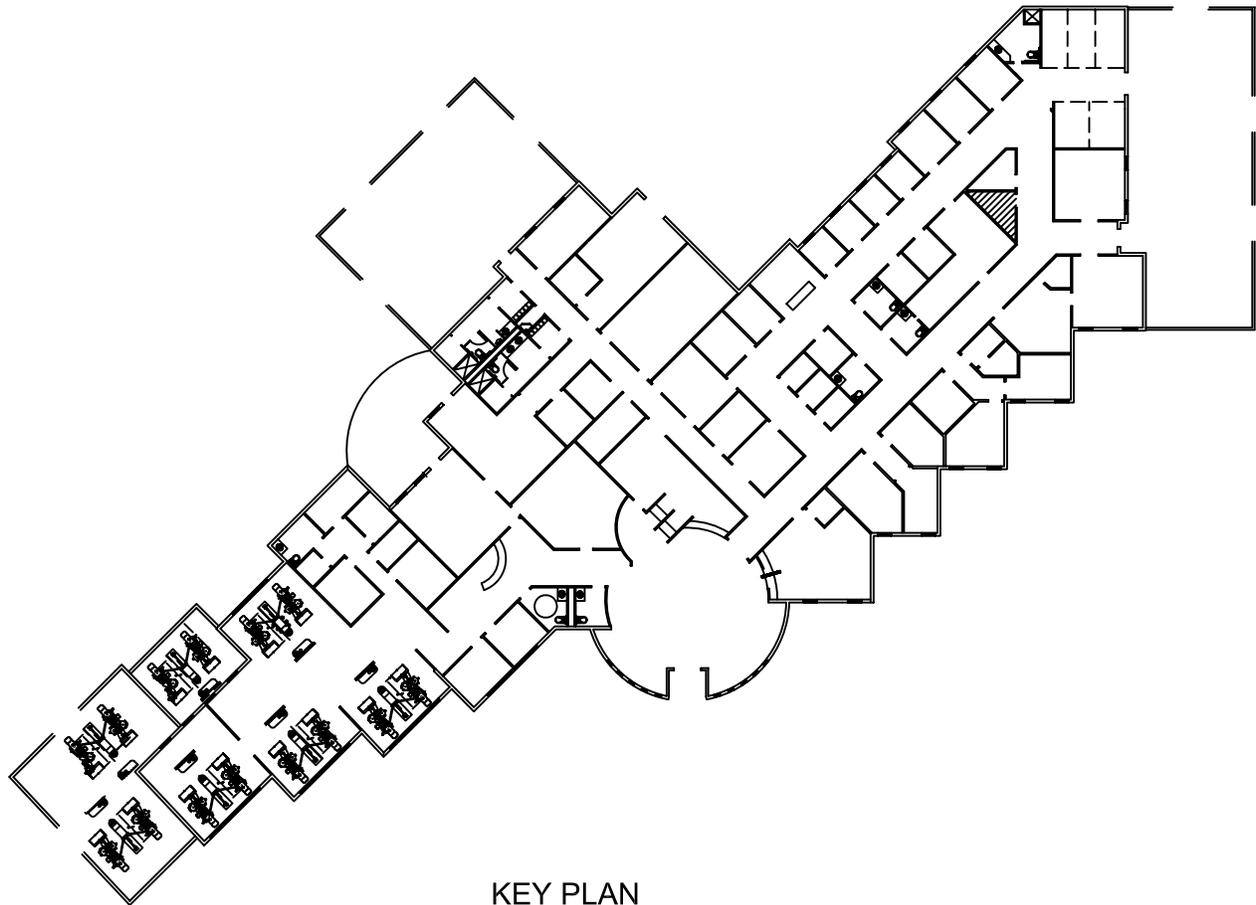
DEPARTMENT: GENERAL CLINIC
ROOM NAME: UTILITY ROOM
AREA REQUIRED: 64' Square Feet
FUNCTION: Room for equipment, ie: Autoclave, other cleaning equipment
ADJACENCIES: Examination rooms
Medication rooms
SECURITY CONSIDERATIONS: Lockable doors
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements

ARCHITECTURAL REQUIREMENTS

FLOORS: Ceramic tile.
WALLS: Painted gyp brd- ceramic tile waynscott
CEILING: Ptd Gyp.
CEILING HEIGHT: 9'
DOORS: 3'x7' SC wood
WINDOWS: Not required
SOUND CONSIDERATIONS: Sound dampening from within space
FIXED EQUIPMENT: None
CNTRS & CSWRK None
MOBILE EQUIPMENT: None
FURNISHINGS: None

ENGINEERING REQUIREMENTS

MECHANICAL: Negative pressure HVAC w/ enhanced exhaust system
PLUMBING: Floor sink
ELECTRICAL: 120 volt power; (1) 220 volt outlet
LIGHTING: 2x4 surface mtd. fluorescent
COMMUNICATIONS: Multi-line telephone jack only
COMPUTER: Data outlet jack



LEGEND	
	Telephone Jack
	110 V Outlet
	Data Outlet
	Pneumatic Outlet
	Quad 110v Outlet
	CCTV Outlet

DEPARTMENT: GENERAL CLINIC
ROOM NAME: STORAGE ROOM
AREA REQUIRED: 60' Square Feet
FUNCTION: Storage for department
ADJACENCIES: Corridor access Within proximity to clinic area
SECURITY CONSIDERATIONS: Lockable door
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements.

ARCHITECTURAL REQUIREMENTS

FLOORS: Linoleum
WALLS: Ptd. gyp brd
CEILING: Ptd. gyp brd
CEILING HEIGHT: 9'
DOORS: 3'x7' SC wood
WINDOWS: None
SOUND CONSIDERATIONS: None
FIXED EQUIPMENT: None
CNTRS & CSWRK (5) 18" wide adjustable Shelves; extent of long wall
MOBILE EQUIPMENT: None
FURNISHINGS: None

ENGINEERING REQUIREMENTS

MECHANICAL: Standard HVAC
PLUMBING: None
ELECTRICAL: Std 120 volt outlets
LIGHTING: 2x4 surface fluorescent lay-in
COMMUNICATIONS: (1) Multi-line telephone jack
COMPUTER: None.

DEPARTMENT: LABORATORY

DEPARTMENT HEAD: Sylvia Ben/Donna Jensen

SCOPE:

The Laboratory (LAB) will serve all of the clinic functional areas except for the dental area, which contains its own lab facility. The Clinic LAB will provide for all bodily fluid testing and other physical testing as well. The LAB will contain an area for the drawing of patient blood samples, a sliding window access to a unisex bathroom for the pass through of urine samples, and counter and upper cabinet space for the placement of equipment and the storage of supplies and other needed items. The lab will have 24” counter top on base cabinet to the full extent of the room where possible.

KEY RELATIONSHIPS:

The LAB must be readily accessible from the main waiting area for patients who are only there for testing. Direct proximity to exam rooms and other patient areas is also important.

SITE IMPLICATIONS AND REQUIREMENTS

None

GENDER IMPLICATIONS

None

OTHER REQUIREMENTS

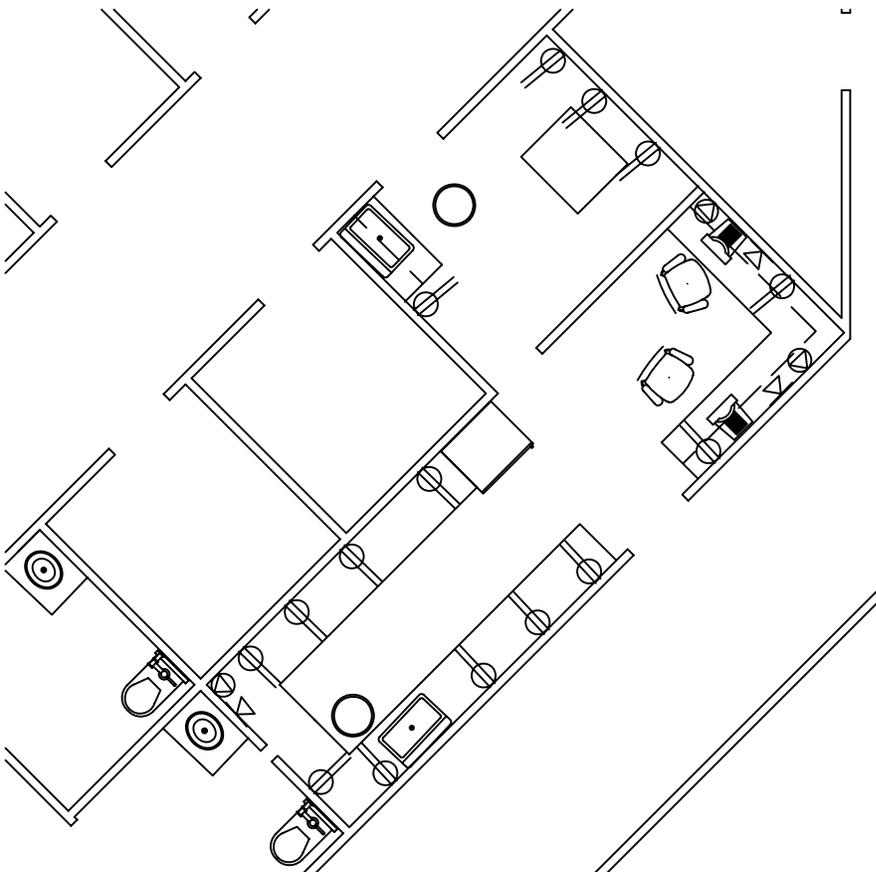
INDIVIDUAL SPACES / ROOMS

Laboratory 300 Square Feet

REMARKS



KEY PLAN



LABORATORY

LEGEND

-  Telephone Jack
-  110 V Outlet
-  Data Outlet
-  Pneumatic Outlet
-  Quad 110v Outlet
-  CCTV Outlet

DEPARTMENT: LABORATORY

ROOM NAME: LABORATORY

AREA REQUIRED: 300 Square Feet

FUNCTION: Lab facility for the testing of blood and other bodily fluids and other as required
Area for patient testing

ADJACENCIES: Exam rooms
Unisex toilet room with pass thru window @ 48" high
Corridor access with strong identity

SECURITY CONSIDERATIONS: Lockable door
Lockable Cabinet (1/3 of total)

ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements.

ARCHITECTURAL REQUIREMENTS

FLOORS: Linoleum

WALLS: Painted gyp brd: impervious backsplash area

CEILING: 2' x 4' suspended lay-in tile

CEILING HEIGHT: 9'

DOORS: 3' x 7' SC wood
12" sq pass through window to unisex toilet room at 48" high to counter

WINDOWS: Desirable – not required

SOUND CONSIDERATIONS: None

FIXED EQUIPMENT:

CNTRS CSWRK Base and upper cabinets full extent of room, Corian countertops, Upper cabinets to full extent of wall height, Fridge

MOBILE EQUIPMENT:

FURNISHINGS: Chair for patient blood drawing, stools for staff

ENGINEERING REQUIREMENTS

MECHANICAL: Negative pressure

PLUMBING: Double SS sink with winged faucets

ELECTRICAL: Plug mold with two plugs per 20 amp circuit to extent of room
10 circuits total
GFI breakers as req.

LIGHTING: 2x4 Lay in fluorescent - 50 FC at desktop height

COMMUNICATIONS: (3) Multi-line telephone (2) dedicated FAX lines

COMPUTER: (3) Data outlets

DEPARTMENT: BEHAVIORAL HEALTH

DEPARTMENT HEAD:

SCOPE:

The Behavioral Health area will consist of offices and counseling rooms for individuals and families. By definition the family counseling room will be slightly larger and will require occupancy by at least four adults and two to four children. The departmental relationships will be for all of the functions to be very close together with perhaps observable windows with closure treatments on either side of any observation window to maintain privacy as/if required.

The sensitivity of the treatment will dictate that the area be away from the public waiting area and perhaps autonomous from other parts of the clinic as will be possible given the relative size of the overall facility. Every attempt should be made to keep the Behavioral Health area as low key and as private as possible.

Doorway access to the area should be exempt from the way finding criteria for the clinic to minimize any stigma of the patients.

KEY RELATIONSHIPS

The area for the Behavioral Health should be as direct as possible from the waiting and administrative check-in area location to maximize the effect of verbal instructions to the area.

SITE IMPLICATIONS AND REQUIREMENTS

Consideration might be given to the possibility of separate exterior entrances to the BH area although the idea of a centralized administrative area will be compromised in this instance.

GENDER IMPLICATIONS

None

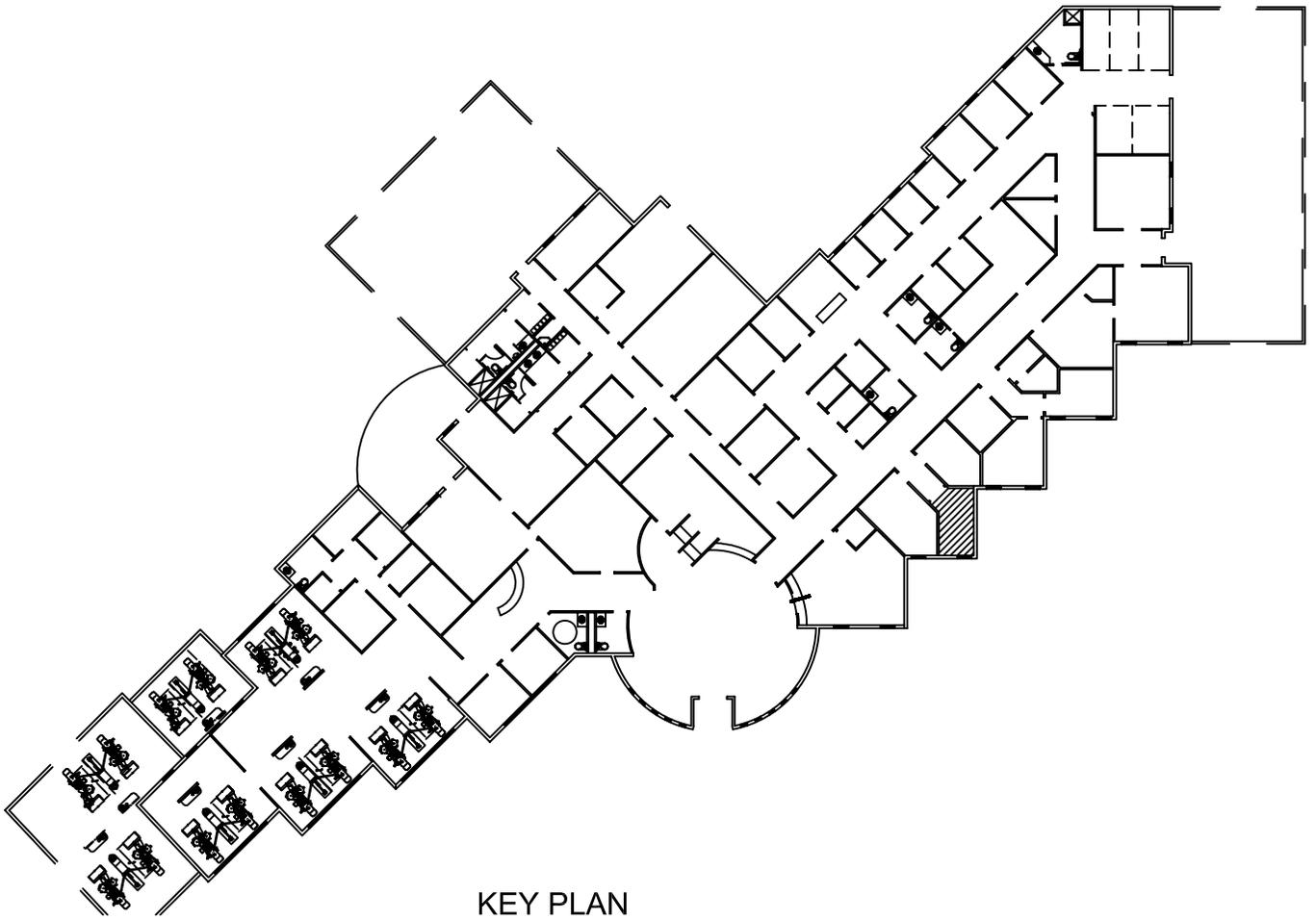
OTHER REQUIREMENTS

None

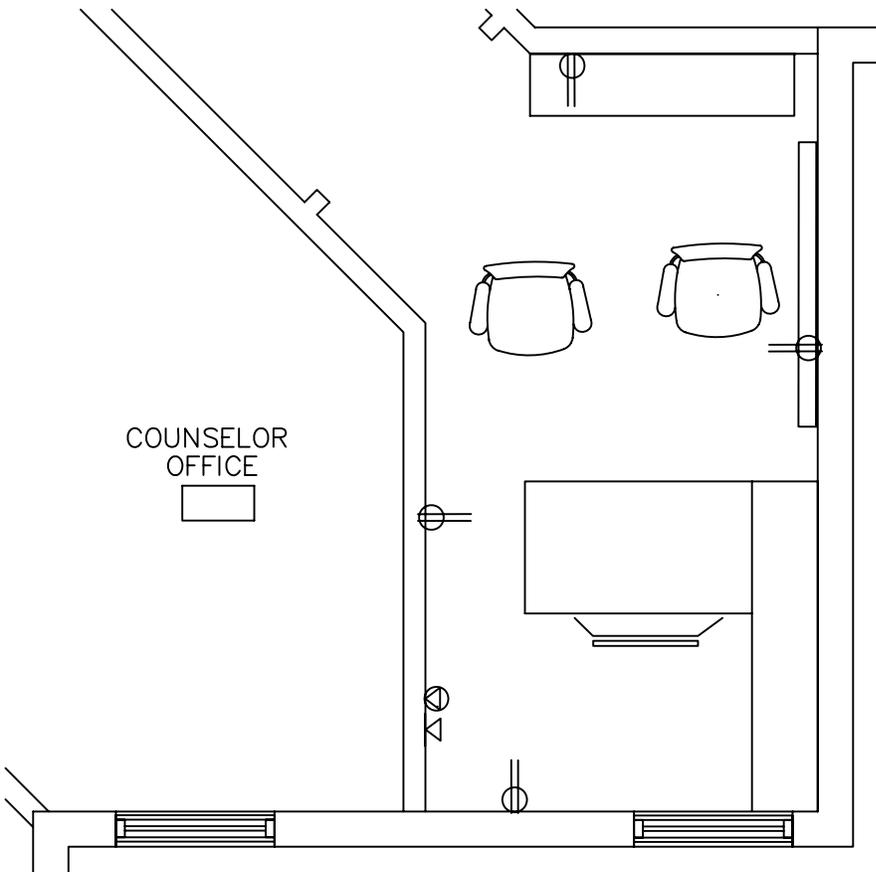
INDIVIDUAL SPACES / ROOMS

Counselor Office - 10'x10'	110 Square feet
Family Counseling Room	180 Square feet
Individual Counseling Room	120 Square feet

REMARKS



KEY PLAN



COUNSELOR OFFICE

LEGEND	
	Telephone Jack
	110 V Outlet
	Data Outlet
	Pneumatic Outlet
	Dual 110v Outlet
	CCTV Outlet

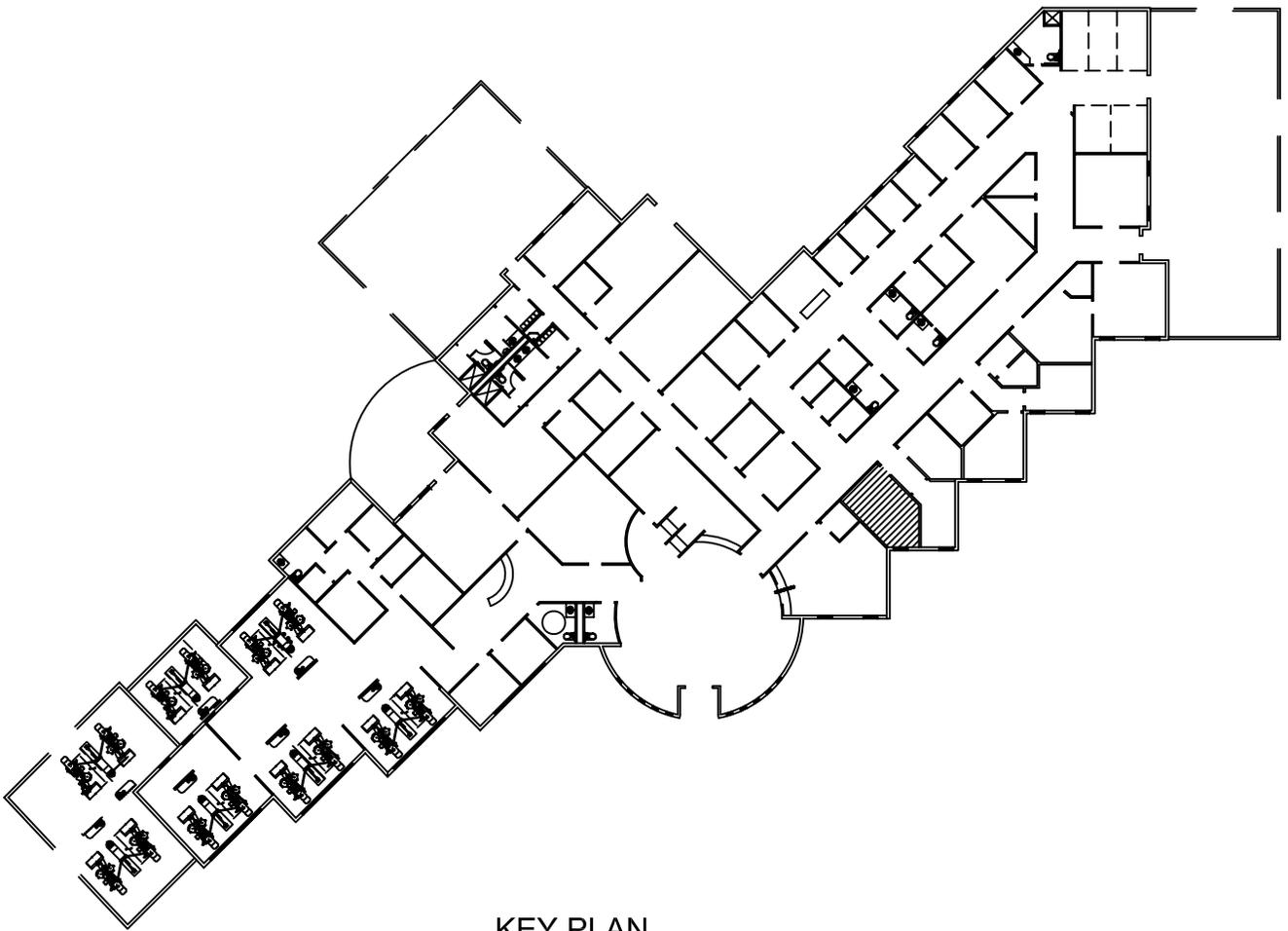
DEPARTMENT: BEHAVIORAL HEALTH
ROOM NAME: COUNSELER OFFICE
AREA REQUIRED: 110'
FUNCTION: Office for Behavioral Health Provider
ADJACENCIES: Corridor access to Exam Rooms
Dr. offices
SECURITY CONSIDERATIONS: Lockable door
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements.

ARCHITECTURAL REQUIREMENTS

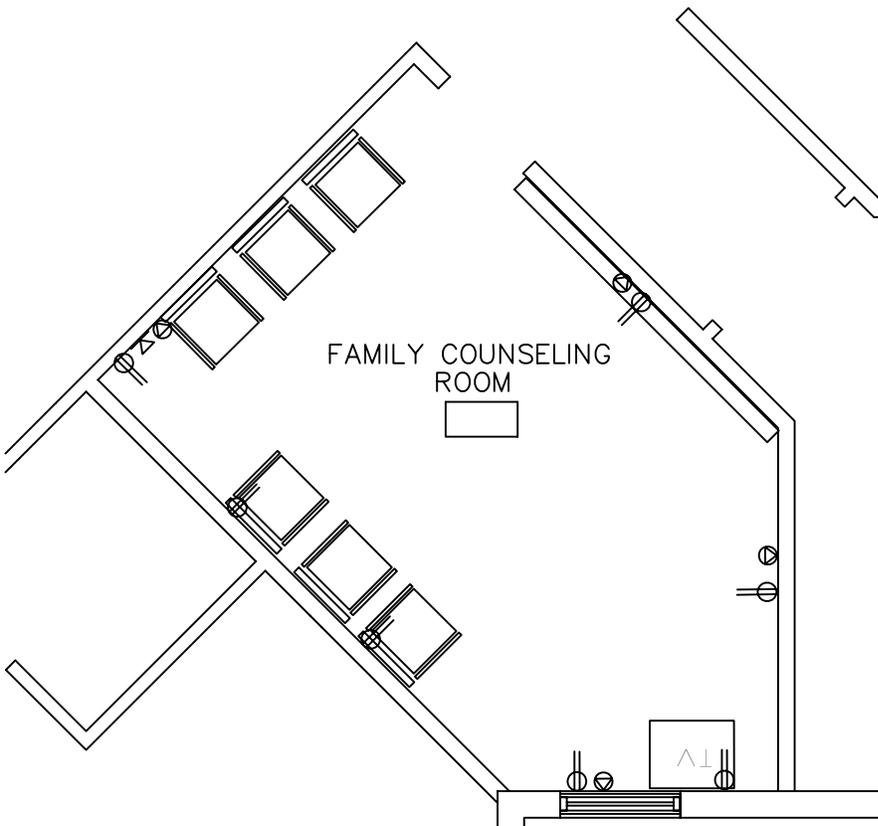
FLOORS: Carpet
WALLS: Ptd gyp brd
CEILING: 2'x4' suspended lay-in
CEILING HEIGHT: 9'
DOORS: 3'x7' SC wood
WINDOWS: Desirable
SOUND CONSIDERATIONS: High STC rating for privacy sound transmission. White sound ideal
FIXED EQUIPMENT: None
CNTRS & CSWRK
MOBILE EQUIPMENT: None
FURNISHINGS: 60" desk with return Office chair, (2) visitor chairs, 30"x 60" split white/cork board, 48" high x 60" long floor mounted bookshelves

ENGINEERING REQUIREMENTS

MECHANICAL: Standard HVAC
PLUMBING: None
ELECTRICAL: 120 volt power
LIGHTING: 2x4 lay-in fluorescent
COMMUNICATIONS: (1) Multi-line telephone
COMPUTER: (1) Data outlets



KEY PLAN



FAMILY COUNSELING ROOM

LEGEND	
	Telephone Jack
	110 V Outlet
	Data Outlet
	Pneumatic Outlet
	2 and 110v Outlet
	CCTV Outlet

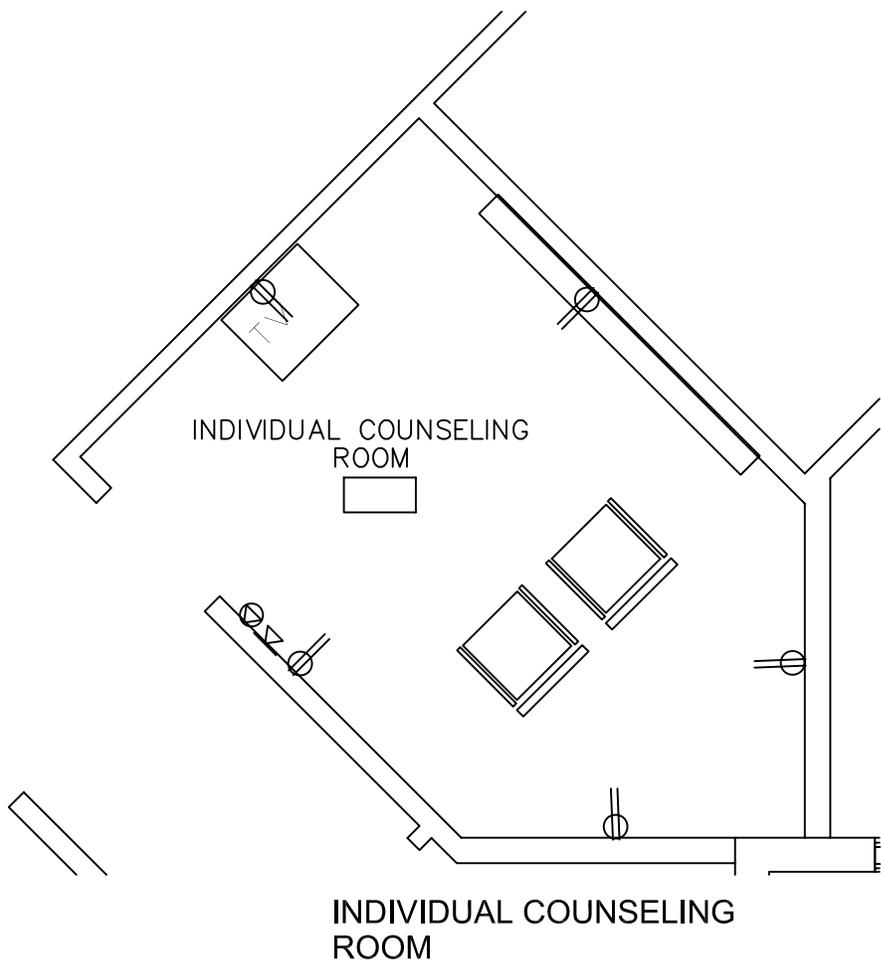
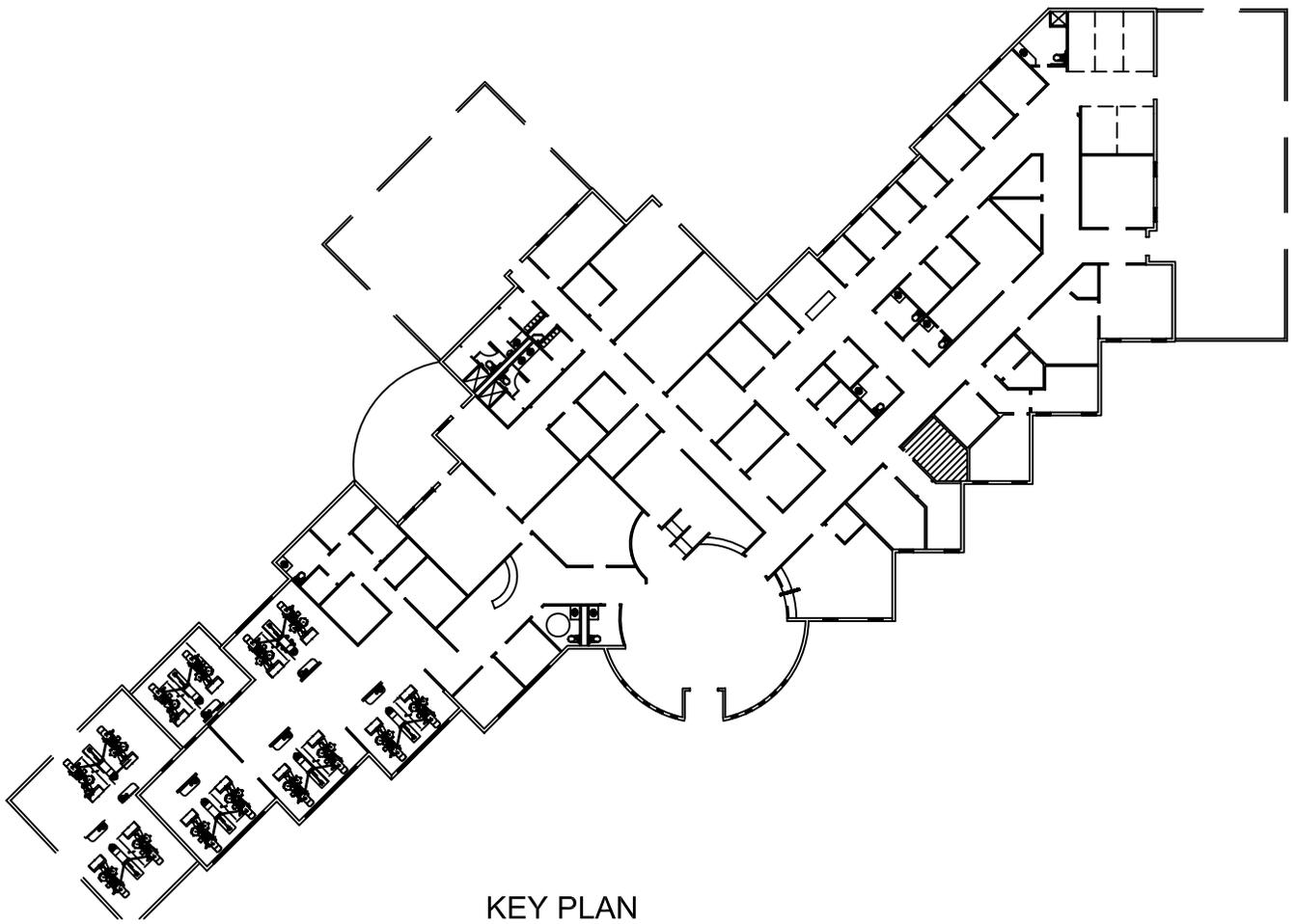
DEPARTMENT: BEHAVIORAL HEALTH
ROOM NAME: FAMILY COUNSELING ROOM
AREA REQUIRED: 180 Square Feet
FUNCTION: Area for family counseling of up to 6 people. Adjustable furniture configuration
ADJACENCIES: Corridor access to Clinic Area, Direct access to Counselor office
SECURITY CONSIDERATIONS: Lockable doors
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements

ARCHITECTURAL REQUIREMENTS

FLOORS: Carpet
WALLS: Painted gyp brd
CEILING: 2' x 4' lay-in
CEILING HEIGHT: 9'- 10'
DOORS: 3'x7' solid core wood door
WINDOWS: Desirable
SOUND CONSIDERATIONS: STC 45
FIXED EQUIPMENT: None
MOBILE EQUIPMENT: None
FURNISHINGS: (6) Stackable chairs, (1) full room width whiteboard with tack board strip, TV/VCR on rolling cart

ENGINEERING REQUIREMENTS

MECHANICAL: Standard HVAC
PLUMBING: None
ELECTRICAL: 120-volt power
LIGHTING: 2x4 lay-in fluorescent
COMMUNICATIONS: Multi-line telephone, wall mounted
COMPUTER: Data outlets on each wall



LEGEND	
	Telephone Jack
	110 V Outlet
	Data Outlet
	Pneumatic Outlet
	Quad 110v Outlet
	CCTV Outlet

DEPARTMENT: BEHAVIORAL HEALTH
ROOM NAME: INDIVIDUAL COUNSELING ROOM
AREA REQUIRED: 120 Square Feet
FUNCTION: Area for one on one counseling
ADJACENCIES: Corridor access to Clinic Area, Direct access to Counselor office
SECURITY CONSIDERATIONS: Lockable doors
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements

ARCHITECTURAL REQUIREMENTS

FLOORS: Carpet
WALLS: Painted gyp brd
CEILING: 2' x 4' lay-in
CEILING HEIGHT: 9'-10'
DOORS: 3'x7' solid core wood door
WINDOWS: Desirable
SOUND CONSIDERATIONS: STC 45
FIXED EQUIPMENT: None
MOBILE EQUIPMENT: None
FURNISHINGS: (2) lounge chairs, (1) full room width whiteboard with tack board strip, TV/VCR on rolling cart

ENGINEERING REQUIREMENTS

MECHANICAL: Standard HVAC
PLUMBING: None
ELECTRICAL: 120-volt power
LIGHTING: 2x4 lay-in fluorescent
COMMUNICATIONS: Multi-line telephone wall mounted
COMPUTER: (1) Data outlet

DEPARTMENT: PHARMACY

DEPARTMENT HEAD: Dennis Beasley

SCOPE:

The pharmacy is a full service facility that serves, not only patients of the clinic, but also bearers of prescriptions from elsewhere.

Direct access to the pharmacy is required from several functions including the general clinic area, the main waiting area and the materials management area that will receive pharmaceuticals on a daily basis. The heart of the pharmacy will be the automatic filling machine, which measures and dispenses pills as per directions from a computer. The machine will count, bottle and label each prescription as per the direction of the pharmacist or his assistant. Other functions of the pharmacy are carried on in a traditional manner and will occupy the majority of the required space. Counter tops with base and upper cabinets will serve the pharmacy function. Power strips at countertop level will be required for the equipment placed in these locations. Secure storage will be enclosed within the pharmacy area.

A separate window for counseling or training of prescription usage will be enclosed with sound dampening walls will be necessary at the main waiting room window of the pharmacy for the dispensing of drugs as needed.

KEY RELATIONSHIPS

Nursing Station; Clinic area;
Waiting Area
Corridor access to material management area

SITE IMPLICATIONS AND REQUIREMENTS

None

GENDER IMPLICATIONS

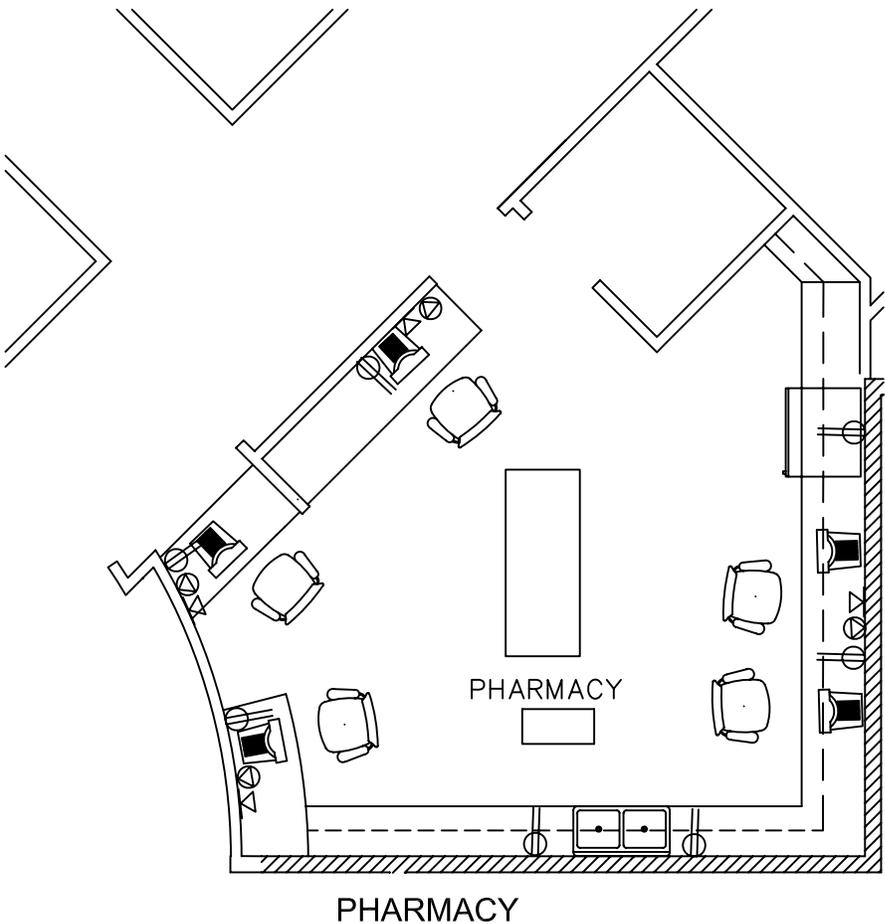
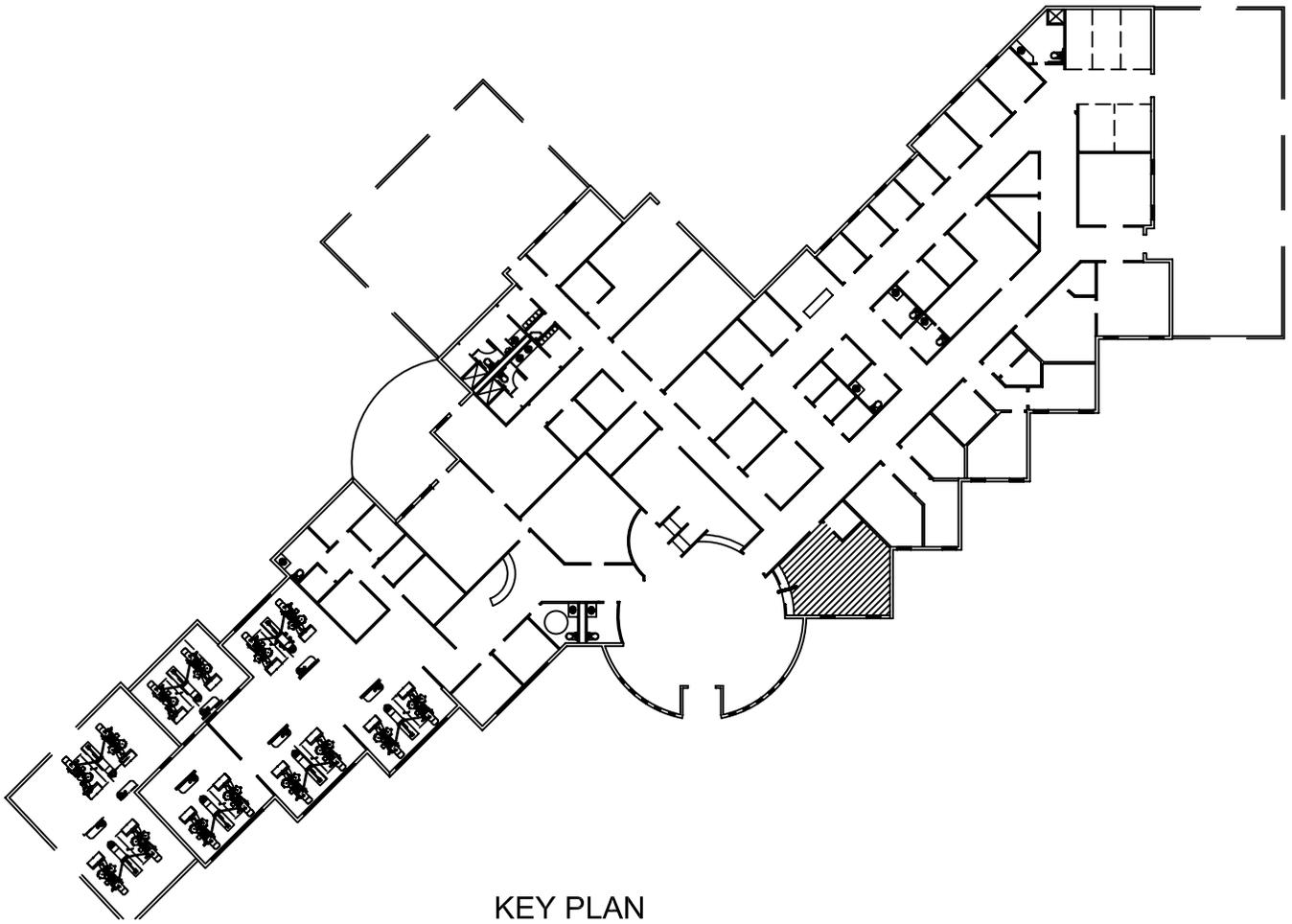
None

OTHER REQUIREMENTS

INDIVIDUAL SPACES / ROOMS

Pharmacy	350 Square Feet
Storage Room - 6'x6'	36 Square Feet

REMARKS



LEGEND

	Telephone Jack
	110 V Outlet
	Data Outlet
	Pneumatic Outlet
	Quad 110v Outlet
	CCTV Outlet

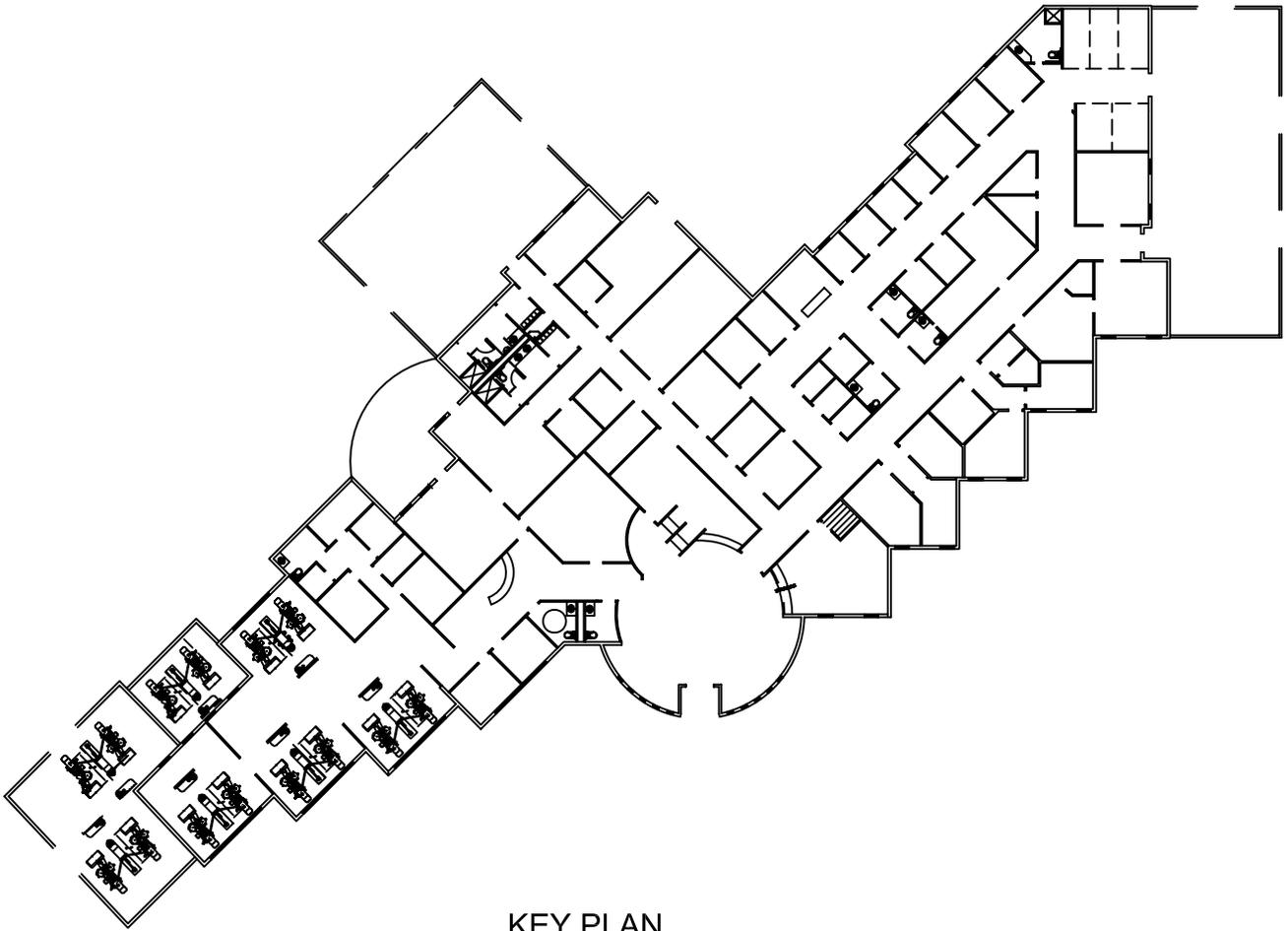
DEPARTMENT: PHARMACY
ROOM NAME: PHARMACY
AREA REQUIRED: 350 Square Feet
FUNCTION: Full service pharmacy with automated filler and full computer record storage
Prescription drop off at clinic area, pickup and outside drop off near waiting
area. Prescription consoling area separated from main corridor.
ADJACENCIES: Waiting Room, Clinic Area.
SECURITY CONSIDERATIONS: Lockable Dutch door with shelf
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements

ARCHITECTURAL REQUIREMENTS

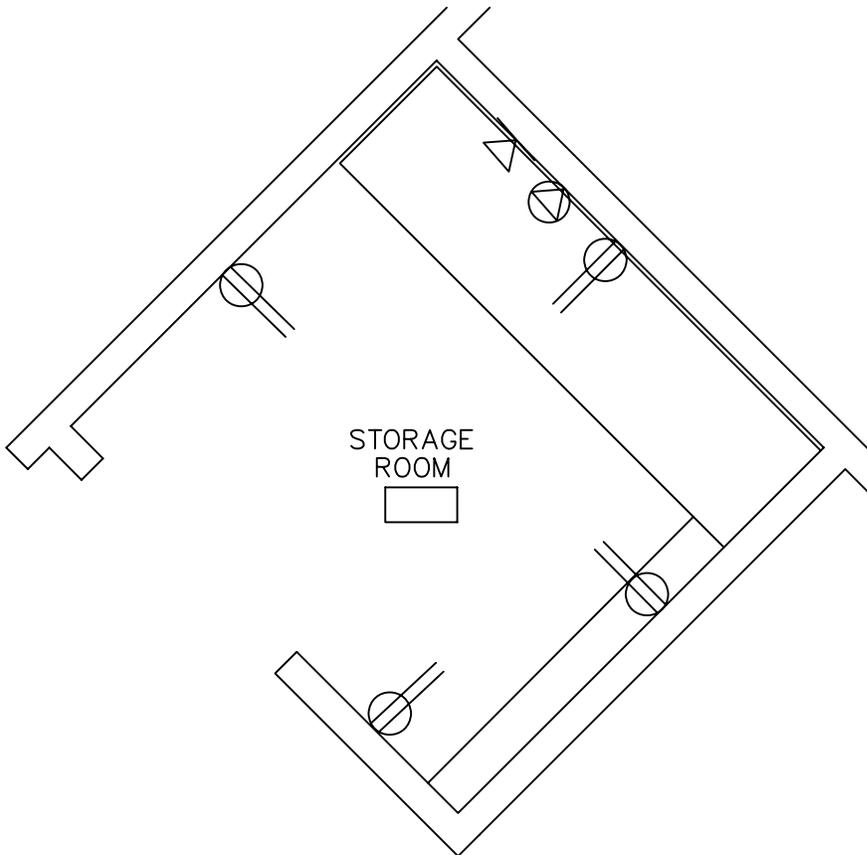
FLOORS: linoleum
WALLS: Painted gyp brd; cabinets
CEILING: 2' x4' suspended acoustical lay-in ceiling
CEILING HEIGHT: 9'
DOORS: (1) 3' x7' Dutch door w/ shelf , Folding wall security at dispensing area.
WINDOWS: None
SOUND CONSIDERATIONS: None
FIXED EQUIPMENT: 100 item prescription filler; 10+ cu. ft. refrig.
CNTRS & CSWRK 20- 25' 24" dp, 42" high base cabinet, corian countertop and upper cabinets.
(1) 3' knee spaces with 30" high corian countertop and keypad holder.
Upper cabinets with doors, slat wall liner; Base cabinets with (5) 24: drawer
banks at various sizes. Base cabinet with 5' long freestanding corian countertop
adjacent to Prescription filling machine. Built-in desk and workstation at
dispensing window
MOBILE EQUIPMENT: (5)-(6) computers on countertop
FURNISHINGS: Rolling chairs for staff

ENGINEERING REQUIREMENTS

MECHANICAL: Enhanced building HVAC system with cooling backup on emergency power
PLUMBING: Stainless steel hand sink (2) compartments or (2) sinks
ELECTRICAL: 120-volt power for Auto filler machine, plug mold at countertop w/ (2) outlets
per circuit max.
LIGHTING: 2x4 lay-in fluorescent fixtures
COMMUNICATIONS: (4) Multiline telephone system
COMPUTER: Data outlet at each work station



KEY PLAN



STORAGE ROOM

LEGEND

-  Telephone Jack
-  110 V Outlet
-  Data Outlet
-  Pneumatic Outlet
-  Quad 110v Outlet
-  CCTV Outlet

DEPARTMENT: PHARMACY
ROOM NAME: STORAGE ROOM
AREA REQUIRED: 36' square feet
FUNCTION: Secure storage for pharmacy
ADJACENCIES: Corridor access
SECURITY CONSIDERATIONS: Lockable door
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements

ARCHITECTURAL REQUIREMENTS

FLOORS: VCT
WALLS: Ptd. gyp brd under slat walls and shelving
CEILING: Ptd. gyp brd
CEILING HEIGHT: 9'
DOORS: 3' x7' SC wood
WINDOWS: None
SOUND CONSIDERATIONS: None
FIXED EQUIPMENT: None
CNTRS & CSWRK (5) 18" Shelves on (1) 6' wall, Slat wall on other walls
MOBILE EQUIPMENT: None
FURNISHINGS: None

ENGINEERING REQUIREMENTS

PLUMBING: None
ELECTRICAL: 120 volt power
LIGHTING: 2x4 lay-in fluorescent
COMMUNICATIONS: (1) Multi-line telephone jack
COMPUTER: (1) Data outlet-jack

DEPARTMENT: PHYSICAL THERAPY

DEPARTMENT HEAD: Richard Ward

SCOPE:

The Physical Therapy area (PT) is a needed but utilized only on a part time basis. Space is required for (3) therapy tables and enough space for gathering of 5-15 people for training when not being utilized for therapy. Exercise machines, storage for weights and other equipment and room for other exercise therapy will be housed in an adjacent but separate space that will be available to the staff and the public via separate entrances. The PT area will be accessed directly from the main waiting area and both the PT room and the exercise room will have separate entrances. The exercise room will also have an entrance from the staff break room.

An outside, enclosed patio will serve both the break room and the exercise room.

KEY RELATIONSHIPS

Direct access from the main waiting to both the PT and the exercise room is to be provided.

SITE IMPLICATIONS AND REQUIREMENTS

None

GENDER IMPLICATIONS

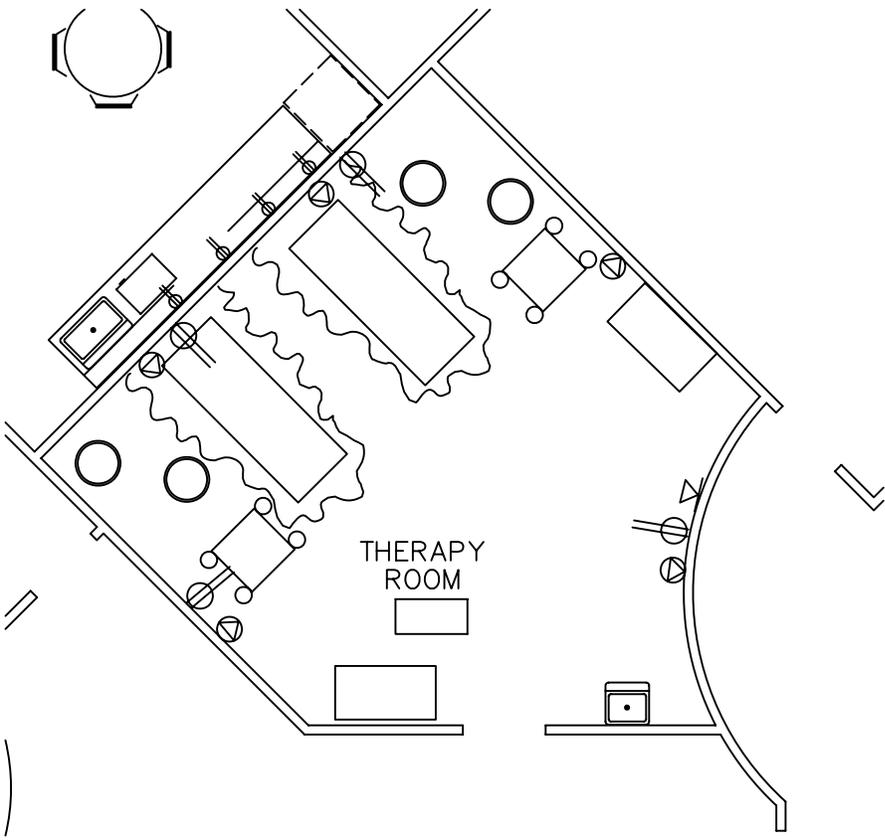
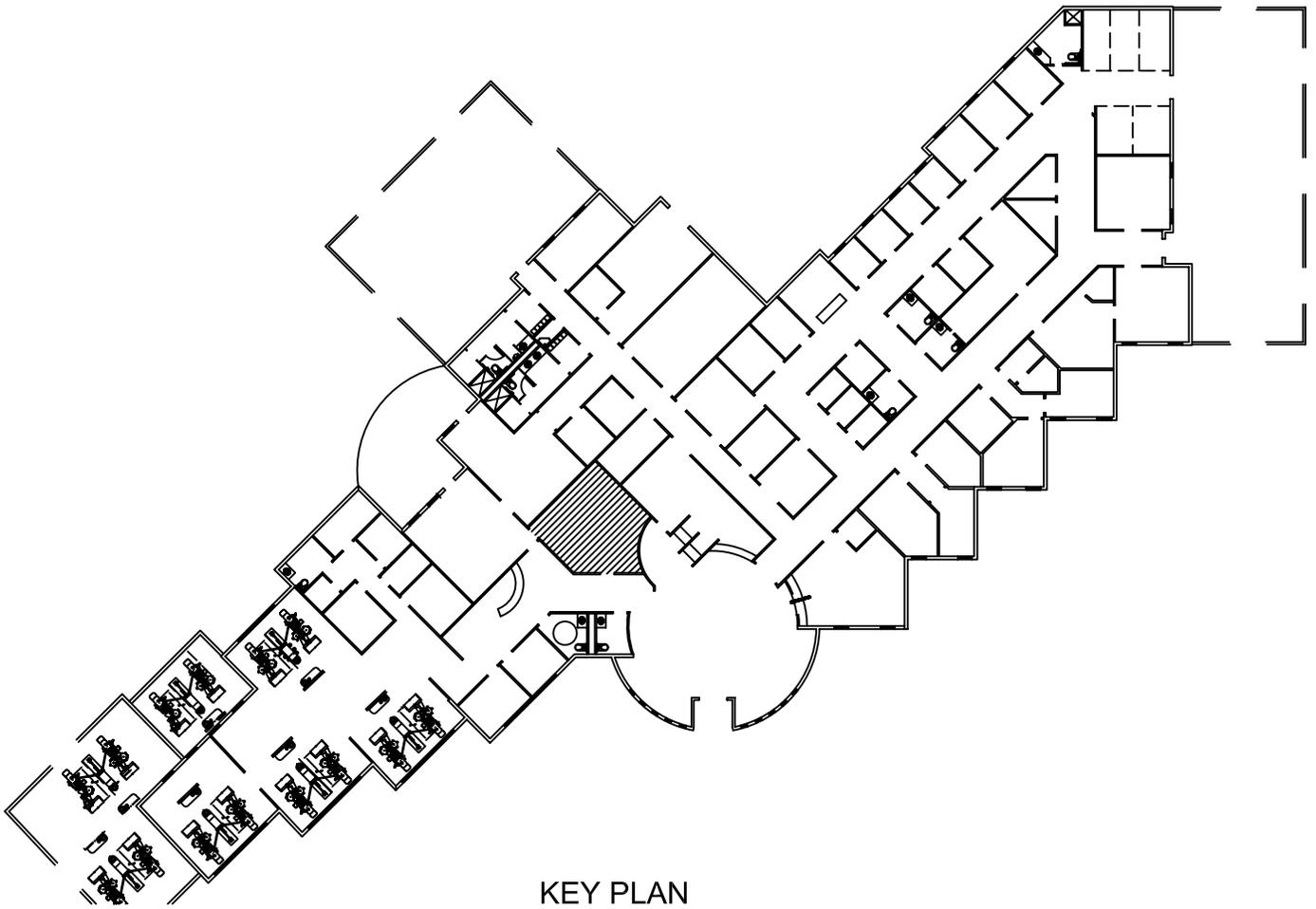
None

OTHER REQUIREMENTS

INDIVIDUAL SPACES / ROOMS

Therapy Room -	400 Square Feet
Exercise Room-	400 Square Feet

REMARKS



LEGEND

	Telephone Jack
	110 V Outlet
	Data Outlet
	Pneumatic Outlet
	Quad 110v Outlet
	CCTV Outlet

THERAPY ROOM

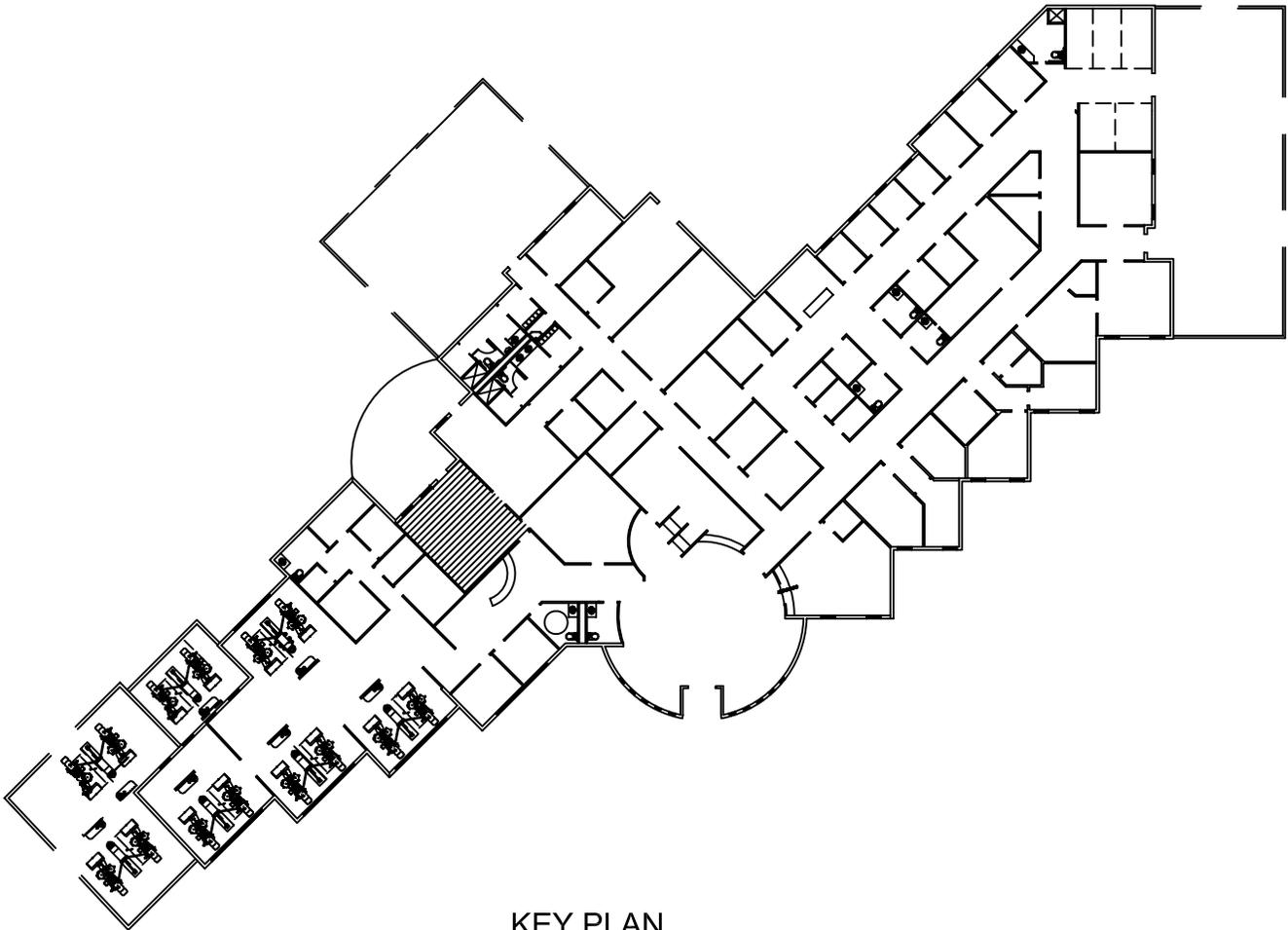
DEPARTMENT: PHYSICAL THERAPY
ROOM NAME: THERAPY ROOM
AREA REQUIRED: 400 Square Feet
FUNCTION: Room will function as a two-table therapy room with room for one additional table.
ADJACENCIES: Corridor access to clinic
SECURITY CONSIDERATIONS: Lockable door and closet
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements

ARCHITECTURAL REQUIREMENTS

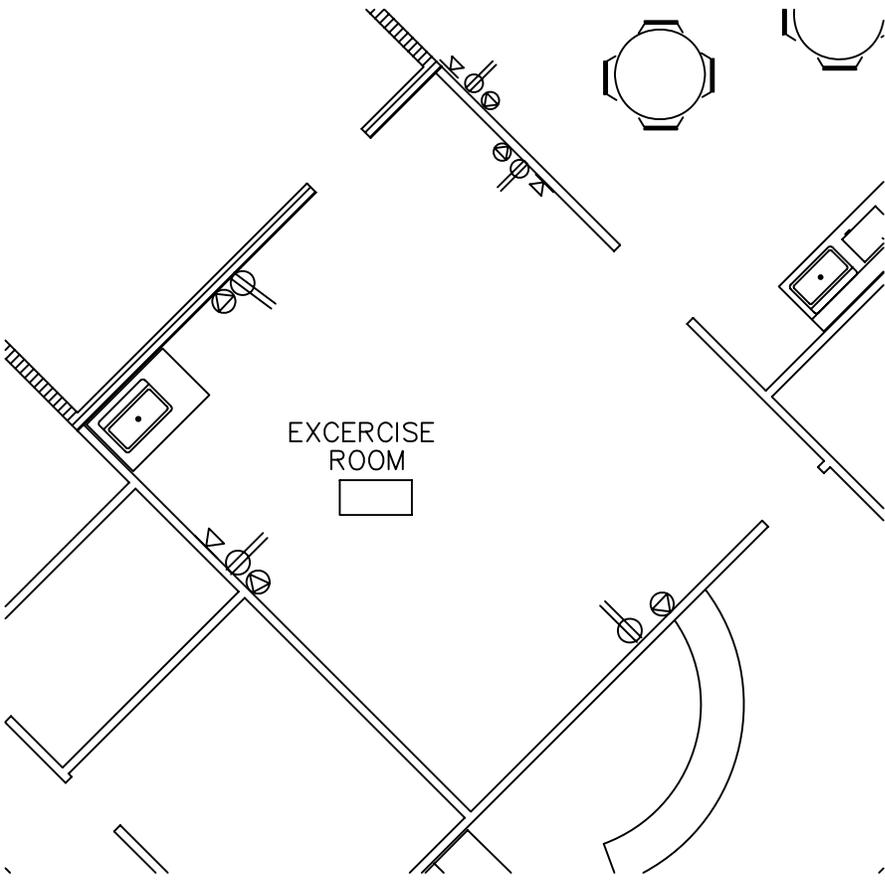
FLOORS: Linoleum
WALLS: Ptd gyp brd
CEILING: 2' x4' suspended acoustical lay-in
CEILING HEIGHT: 10'
DOORS: 3' x 7' SC wood
WINDOWS: Desirable
SOUND CONSIDERATIONS: Sound dampening
FIXED EQUIPMENT: Full height privacy curtains around each table
MOBILE EQUIPMENT: Exercise equipment
FURNISHINGS: (2) Therapy tables; Chairs for therapists, (2) rolling storage carts, 18" x 4' x 6' metal storage cabinets

ENGINEERING REQUIREMENTS

MECHANICAL: Standard HVAC
PLUMBING: SS hand sink with winged faucet handles
ELECTRICAL: 120 volt code outlets
LIGHTING: 2x4 fluorescent lay-in
COMMUNICATIONS: (1) Multi-line telephones wall mounted
COMPUTER: (5) Data outlets



KEY PLAN



EXERCISE ROOM

EXERCISE ROOM

LEGEND	
	Telephone Jack
	110 V Outlet
	Data Outlet
	Pneumatic Outlet
	Quad 110v Outlet
	CCTV Outlet

DEPARTMENT: PHYSICAL THERAPY
ROOM NAME: EXERCISE ROOM
AREA REQUIRED: 400 Square Feet
FUNCTION:
ADJACENCIES: Corridor access to clinic
SECURITY CONSIDERATIONS: Lockable door and closet
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements

ARCHITECTURAL REQUIREMENTS

FLOORS: Linoleum
WALLS: Ptd gyp brd
CEILING: 2' x4' suspended acoustical lay-in
CEILING HEIGHT: 10'
DOORS: 3' x 7' SC wood
WINDOWS: Desirable
SOUND CONSIDERATIONS: Sound dampening to adjacent rooms.
FIXED EQUIPMENT:
MOBILE EQUIPMENT: Exercise equipment

FURNISHINGS:

ENGINEERING REQUIREMENTS

MECHANICAL: Standard HVAC
PLUMBING: SS hand sink with winged faucet handles
ELECTRICAL: 120 volt code outlets
LIGHTING: 2x4 fluorescent lay-in
COMMUNICATIONS: (2) Multi-line telephones
COMPUTER: Data outlet on each wall

DEPARTMENT: RADIOLOGY/ DIAGNOSTICS

DEPARTMENT HEAD: George Jones

SCOPE:

The Radiology/Diagnostics Department (RDD) will serve the entire clinic area except for the Dental Area, which will have its own X-ray equipment. Given the remote location of the facility, there will be several diagnostic units not normally found in small clinics.

A separate room for Mammography will be placed adjacent to but not necessarily with direct access to other RDD spaces within the department.

A separate room for a bone density machine will also be placed adjacent to but not necessarily with direct access to other RDD spaces within the department.

A separate room for an ultrasound machine will also be placed adjacent to but not necessarily with direct access to other RDD spaces within the department.

KEY RELATIONSHIPS

Diagnostics will be proximate and with corridor access to the General Clinic area and the patient exam rooms.

The X-ray room will be placed immediately adjacent to and with direct access to the Emergency Treatment Room. A 4' – 0" door will connect the two spaces.

X-ray and therefore Processor and Dark Room will all be adjacent to the Emergency Treatment Rooms

SITE IMPLICATIONS AND REQUIREMENTS

Site requirements should only impact the future expandability of the department.

GENDER IMPLICATIONS

There will be several of the diagnostic functions that will apply to a majority of women, ie: Mammography and ultrasound and therefore may require gender specific facilities within the RDD area.

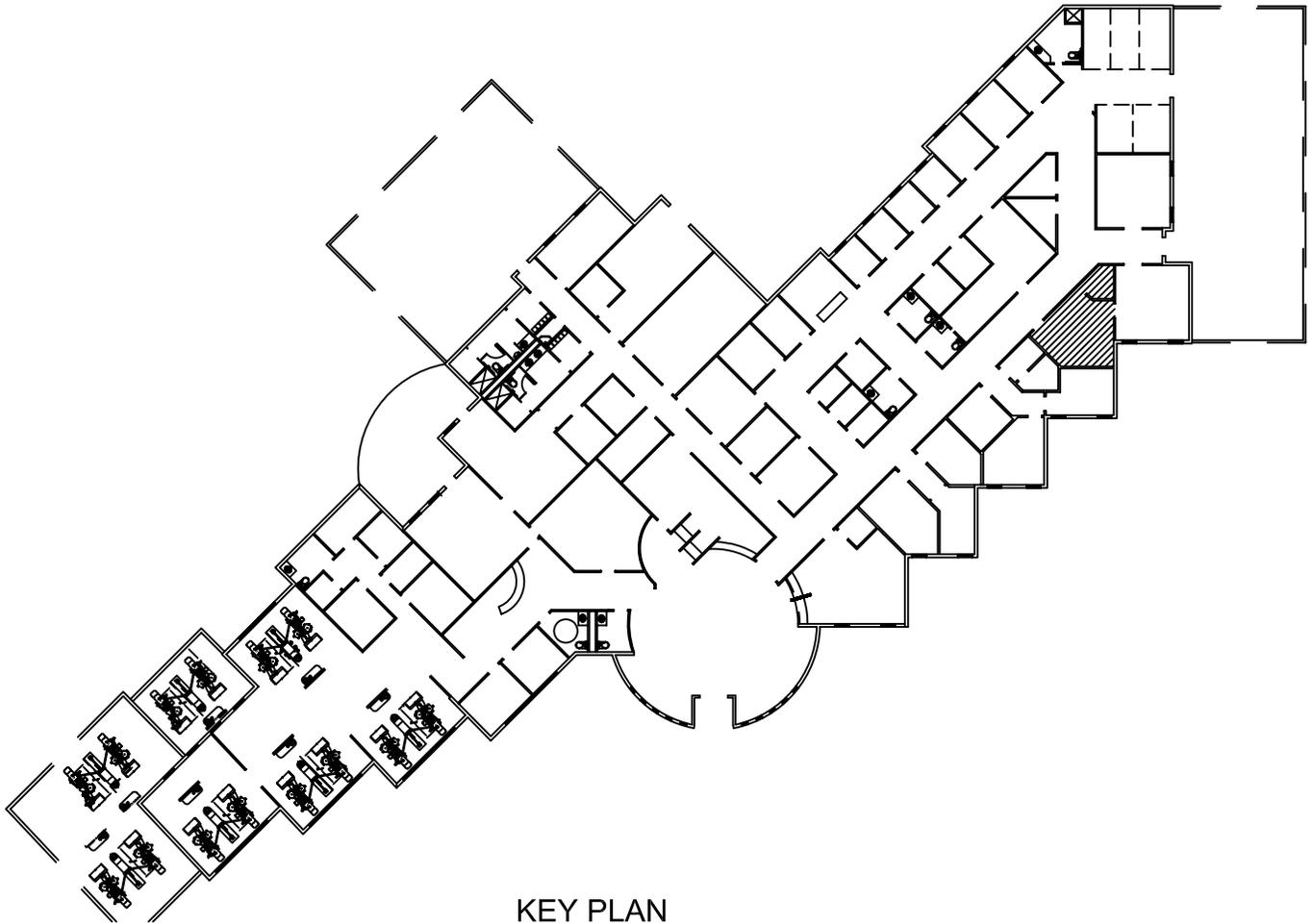
OTHER REQUIREMENTS

INDIVIDUAL SPACES / ROOMS

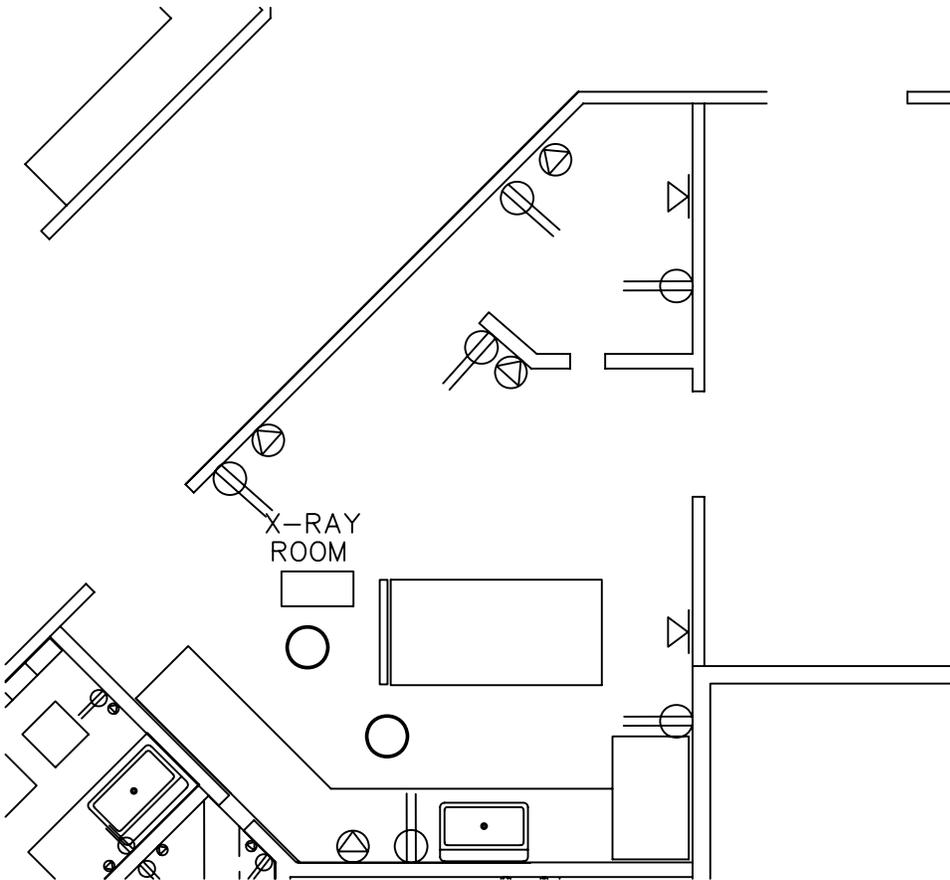
X-ray Room	250 Square Feet
Ultrasound Room	160 Square Feet
Mammography Room	100 Square Feet
Bone Density Room	130 Square Feet
Processor Room	45 Square Feet
Dark Room	40 Square Feet

REMARKS

Some of the information specific to the following rooms has been obtained from Equipment suppliers and manufacturers. Dave Walton of Simons X-ray has been the main source of this information (801) 532-1600.



KEY PLAN



X-RAY ROOM

LEGEND

-  Telephone Jack
-  110 V Outlet
-  Data Outlet
-  Pneumatic Outlet
-  Quad 110v Outlet
-  CCTV Outlet

DEPARTMENT: RADIOLOGY/ DIAGNOSTICS

ROOM NAME: X-RAY ROOM

AREA REQUIRED: 250 Square Feet

FUNCTION: Houses X-ray equipment to serve the entire facility and the Adjacent Emergency Treatment facility. Will contain digital imaging equipment and protected area for technician and some digital equipment.

ADJACENCIES: Darkroom and Processor Room, Emergency Treatment Room

SECURITY CONSIDERATIONS: Lockable door from corridor. Passage set from Emergency Treatment Room

ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements

ARCHITECTURAL REQUIREMENTS

FLOORS: Linoleum

WALLS: Lead lined painted gyp brd. Lead lined wall separating patient and technician

CEILING: 2' x 4' suspended lay-in acoustical ceiling

CEILING HEIGHT: 10' +

DOORS: 4' x7' SC wood door w/ thrust pivot hinges from corridor and ER.

WINDOWS: No Exterior Windows
Interior Window: 12"x 12" glass made for X- ray rooms between technician area and X-ray

**SOUND
CONSIDERATIONS:**

FIXED EQUIPMENT: X-ray table and wall mounted device: X ray generator 24"x26"x60"(h)

MOBILE EQUIPMENT: Computer servers, Digital imaging equipment

FURNISHINGS: Technician rolling stools

ENGINEERING REQUIREMENTS

MECHANICAL: Enhanced HVAC to accommodate equipment heat gain

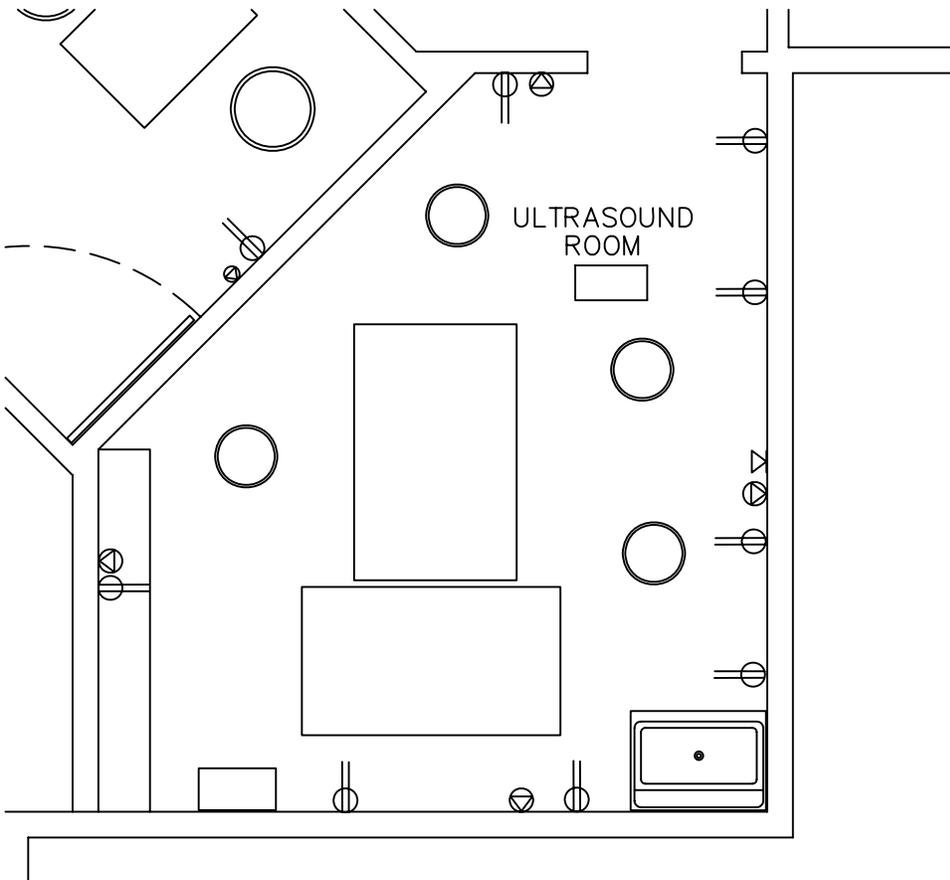
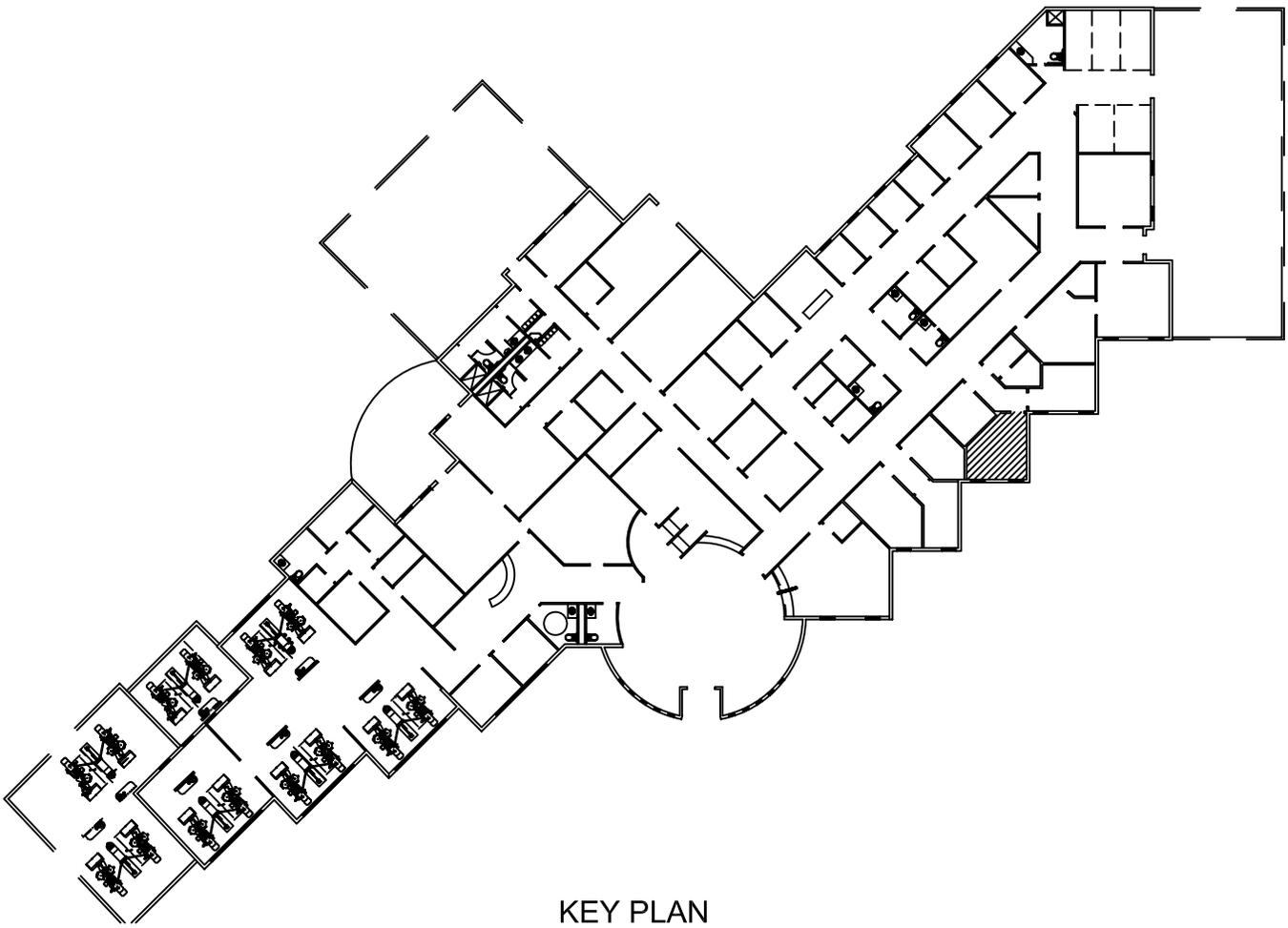
PLUMBING: Wall mounted SS hand wash sink with winged faucet handles

ELECTRICAL: Dedicated circuit for X ray machine; digital and computer equipment, and 110v std room power

LIGHTING: 2x4 fluorescent lay in; Task lighting at X- ray table

COMMUNICATIONS: (2) Multi-line wall mounted telephones

COMPUTER: (4) Data outlets



LEGEND

	Telephone Jack
	110 V Outlet
	Data Outlet
	Pneumatic Outlet
	Quad 110v Outlet
	CCTV Outlet

DEPARTMENT: RADIOLOGY/ DIAGNOSTICS

ROOM NAME: ULTRASOUND ROOM

AREA REQUIRED: 160 Square Feet

FUNCTION: Area for ultrasound equipment, technician, patient and max (2) visitors; Ample area to move table all around patient table

ADJACENCIES: Proximate to Clinic area and other diagnostic equipment spaces

SECURITY CONSIDERATIONS: Lockable door from corridor.

ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements

ARCHITECTURAL REQUIREMENTS

FLOORS: Linoleum

WALLS: Painted gyp brd.

CEILING: 2' x 4' suspended lay-in acoustical ceiling

CEILING HEIGHT: 10 +

DOORS: 3' x 7' SC wood door

WINDOWS: None

SOUND CONSIDERATIONS: None

FIXED EQUIPMENT: (4) 12" x room width shelves, Gel warming equipment on shelf

MOBILE EQUIPMENT: Ultrasound equipment, Patient recliner or table

FURNISHINGS: Technician rolling stools – exam table

ENGINEERING REQUIREMENTS

MECHANICAL: Enhanced HVAC to accommodate equipment heat gain

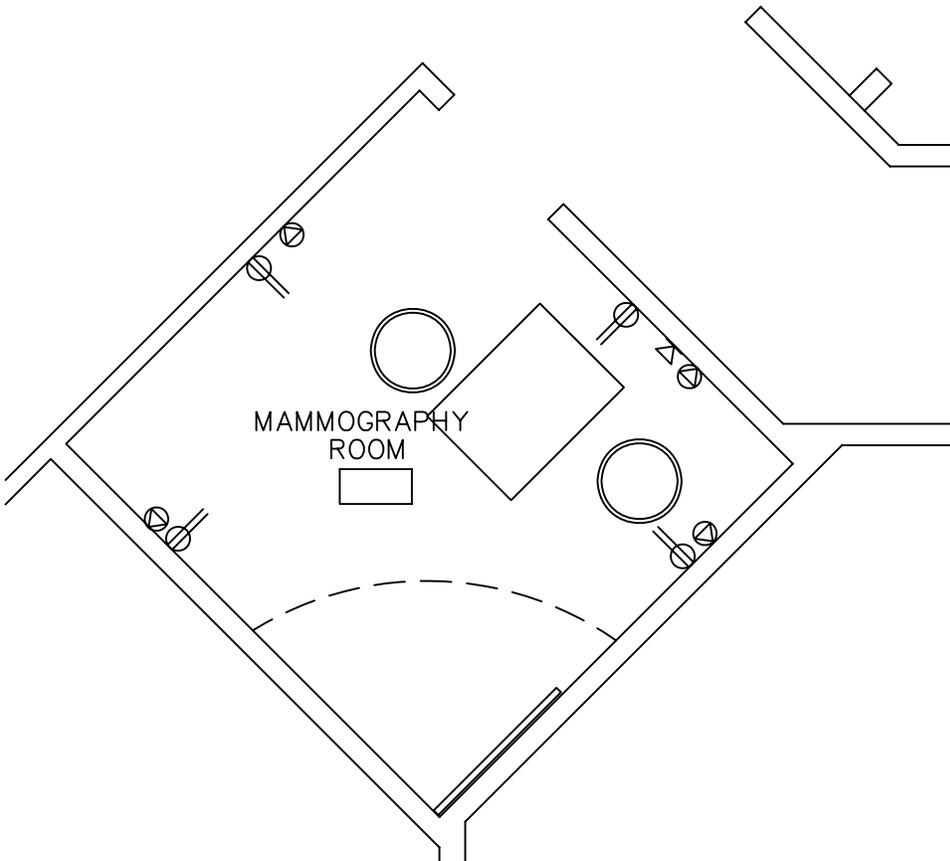
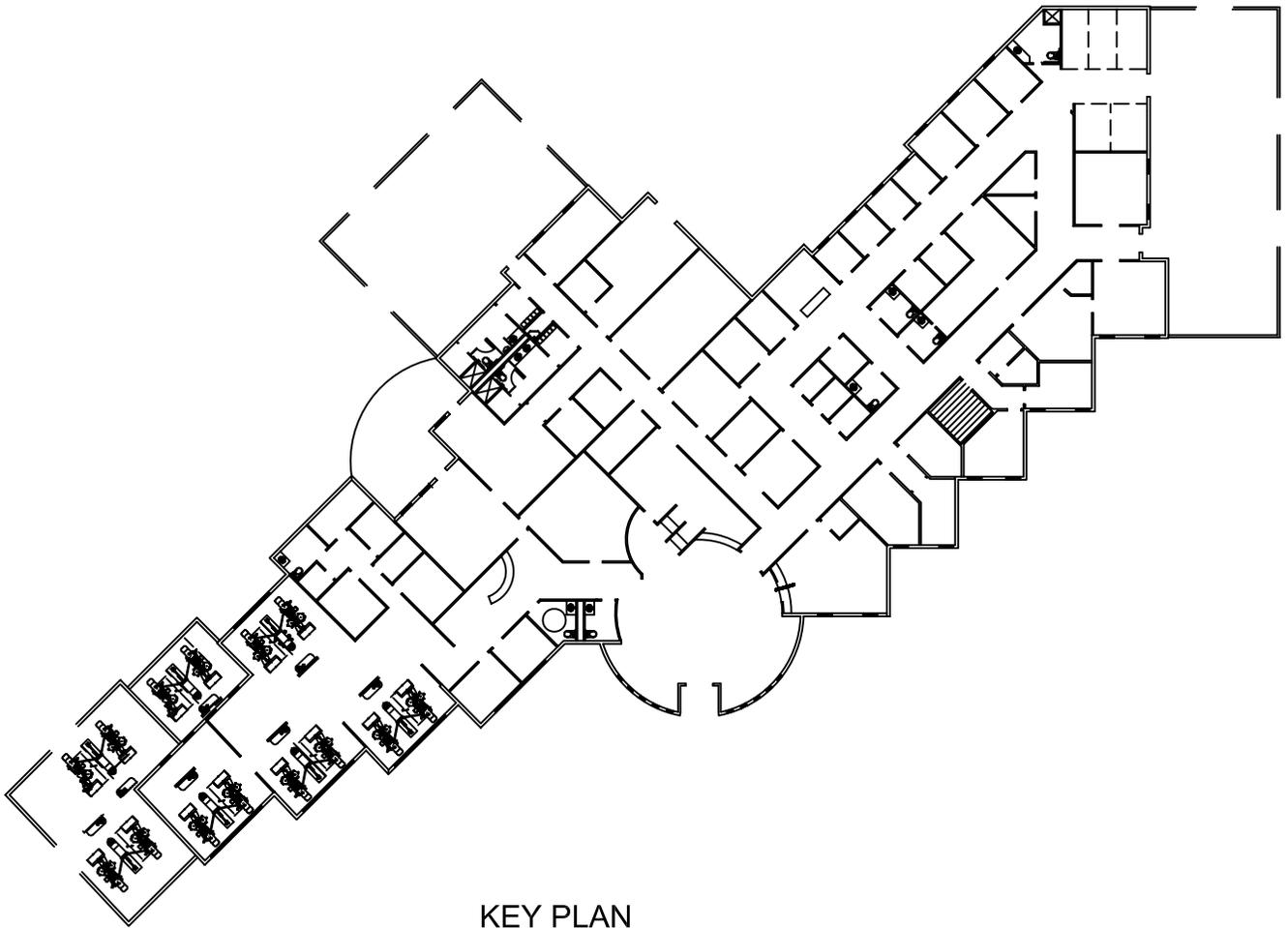
PLUMBING: Wall mounted SS hand wash sink with winged faucet handles

ELECTRICAL: 120 volt power w/ dedicated circuit for ultra sound equip; 120 volt power at 12" above floor for warming gel

LIGHTING: Dimmable 2x4 fluorescent lay in

COMMUNICATIONS: (1) Multi-line wall mtd. telephone

COMPUTER: Data outlet on each wall



LEGEND

	Telephone Jack
	110 V Outlet
	Data Outlet
	Pneumatic Outlet
	Quad 110v Outlet
	CCTV Outlet

MAMMOGRAPHY ROOM

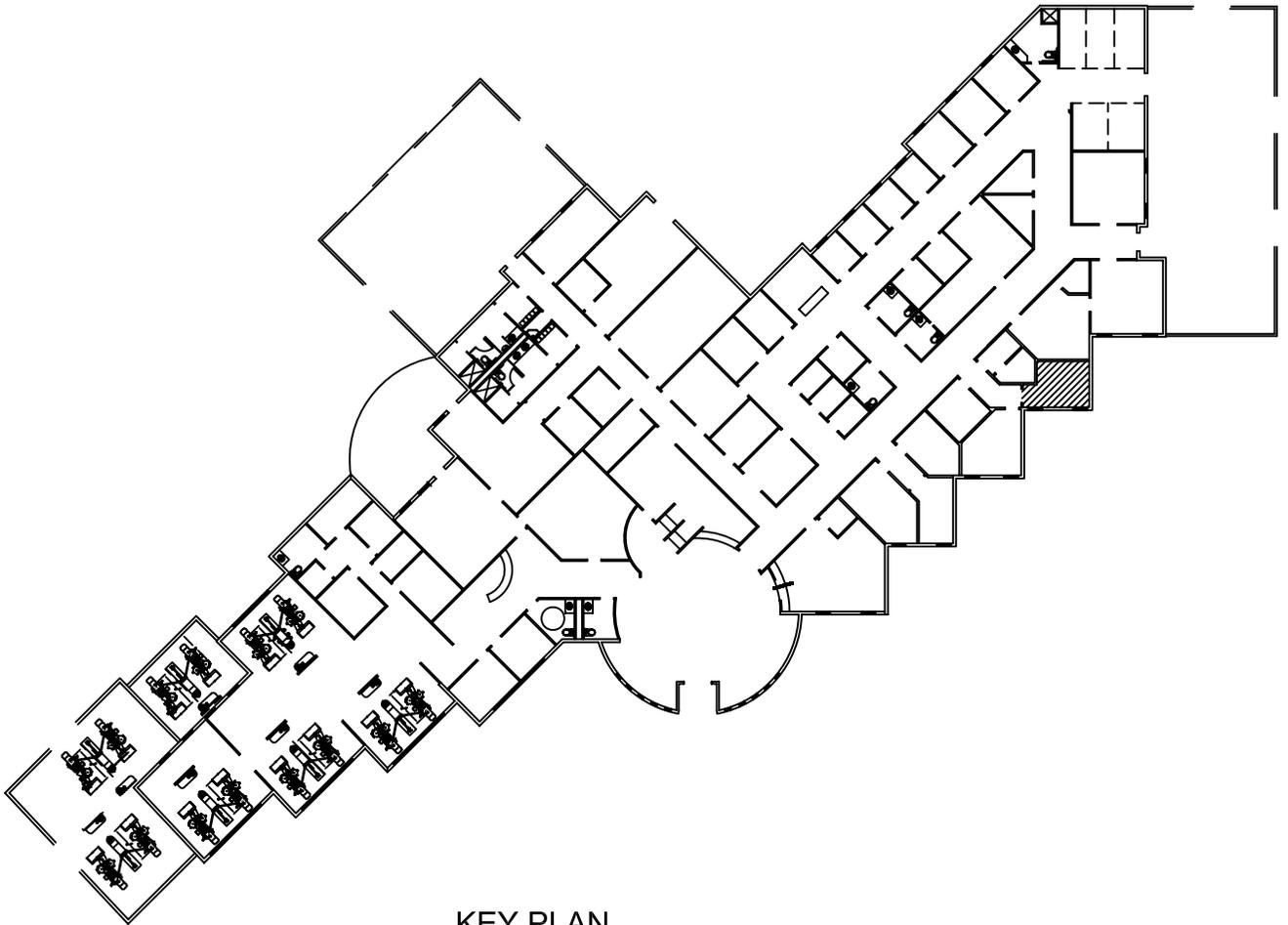
DEPARTMENT: RADIOLOGY/ DIAGNOSTICS
ROOM NAME: MAMMOGRAPHY ROOM
AREA REQUIRED: 100 Square Feet
FUNCTION: Mammography Equipment with small area for disrobing and clothing storage
ADJACENCIES: Proximate to Darkroom and Processor Room
SECURITY CONSIDERATIONS: Lockable door from corridor
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements

ARCHITECTURAL REQUIREMENTS

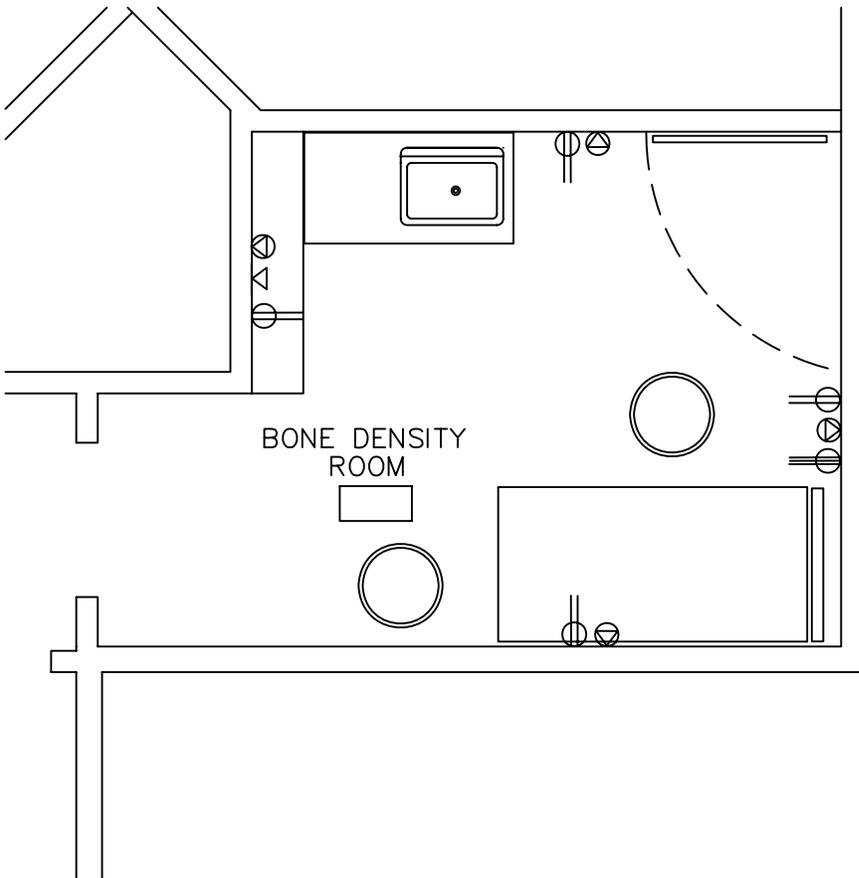
FLOORS: Linoleum
WALLS: Lead lined painted gyp brd
CEILING: 2' x 4' suspended lay-in acoustical ceiling
CEILING HEIGHT: 10 +
DOORS: 3' x 7' SC wood door
WINDOWS: None required
SOUND CONSIDERATIONS: None
FIXED EQUIPMENT: Mammography equipment and appurtenant facilities, Privacy curtain at corner.
MOBILE EQUIPMENT: Electronic film labeling machine, Clothing hooks
FURNISHINGS: Technician rolling stools

ENGINEERING REQUIREMENTS

MECHANICAL: Enhanced HVAC to accommodate equipment heat gain
PLUMBING: Wall mounted SS hand wash sink with winged faucet handles
ELECTRICAL: Dedicated circuit for Mammography equipment, 120 volt power
LIGHTING: 2x4 fluorescent lay in
COMMUNICATIONS: (1) Multi-line telephone
COMPUTER: Data outlet on each wall



KEY PLAN



BONE DENSITY ROOM

LEGEND

-  Telephone Jack
-  110 V Outlet
-  Data Outlet
-  Pneumatic Outlet
-  Quad 110v Outlet
-  CCTV Outlet
-  240 Volt 30 Amp Circuit

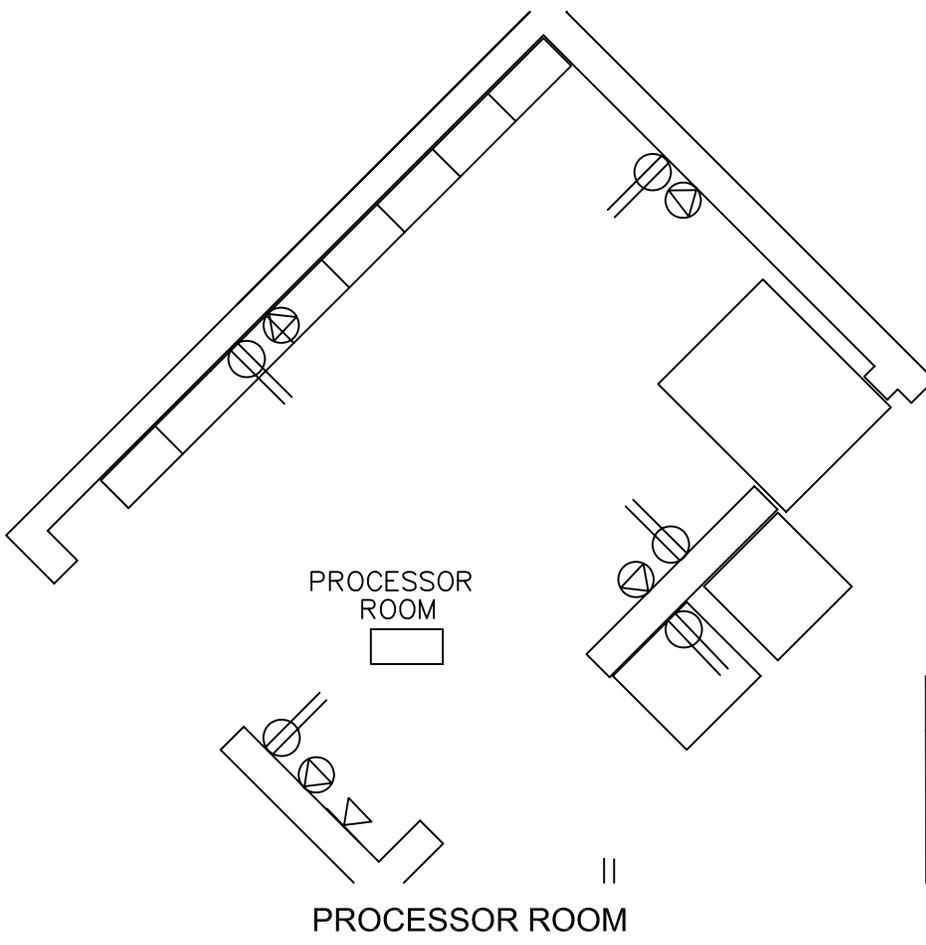
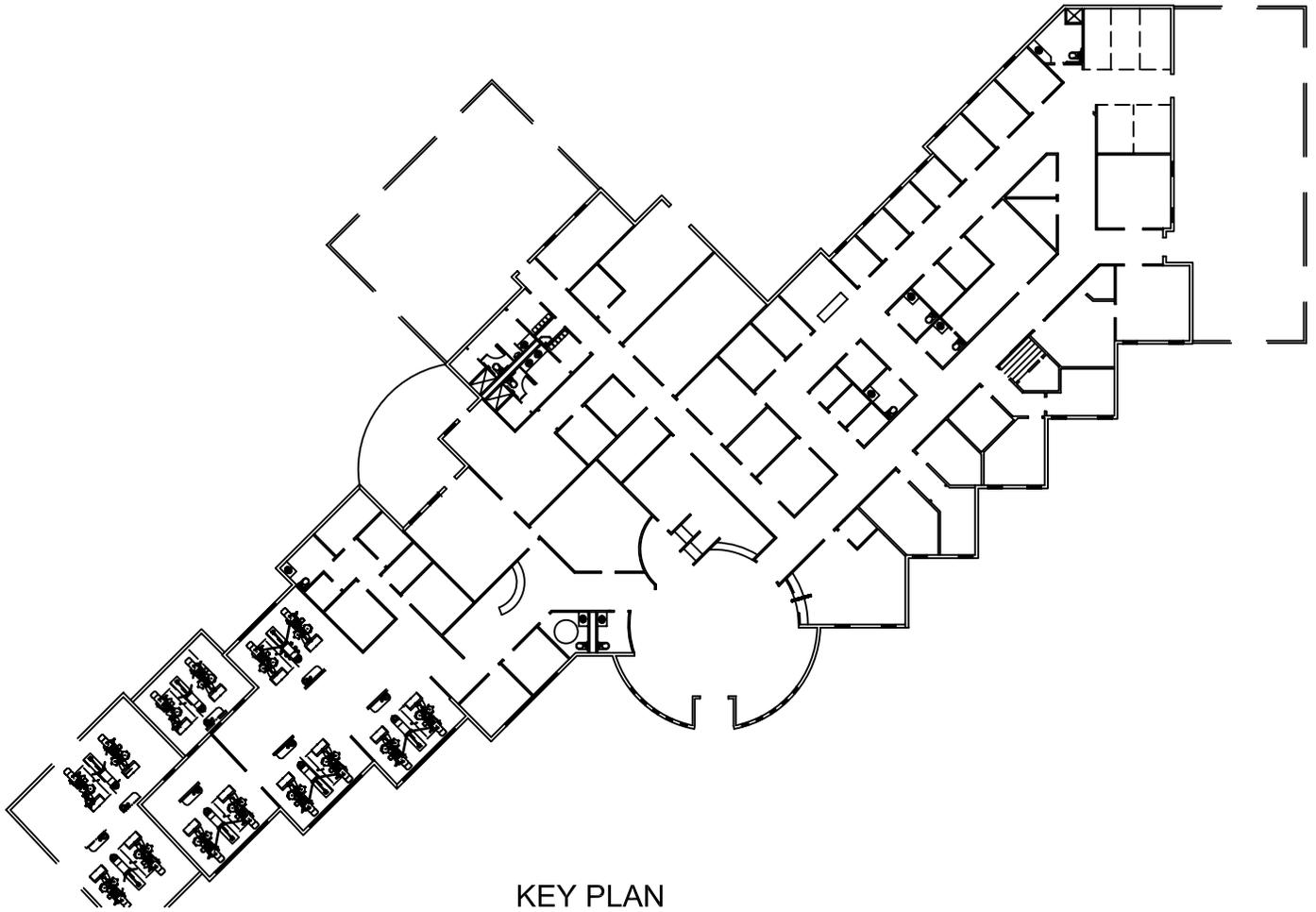
DEPARTMENT: RADIOLOGY/ DIAGNOSTICS
ROOM NAME: BONE DENSITY ROOM
AREA REQUIRED: 130 Square Feet
FUNCTION: Scanning table for checking bone density, Area for disrobing and hanging clothes
ADJACENCIES: Proximate to darkroom, processor and other diagnostic equipment spaces
SECURITY CONSIDERATIONS: Lockable door from corridor.
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements

ARCHITECTURAL REQUIREMENTS

FLOORS: Linoleum
WALLS: Lead lined, painted gyp brd.
CEILING: 2' x4' suspended lay-in acoustical ceiling
CEILING HEIGHT: 10 +
DOORS: 3' x7' SC wood door
WINDOWS: None required
SOUND CONSIDERATIONS: None
FIXED EQUIPMENT: Bone scanning table, equipment and appurtenant facilities; (4) 16" wide x 6'-0" shelves. Privacy curtain at corner.
MOBILE EQUIPMENT: Electronic film labeling machine on shelves, clothing hooks
FURNISHINGS: Technician rolling stools

ENGINEERING REQUIREMENTS

MECHANICAL: Enhanced HVAC to accommodate equipment heat gain
PLUMBING: 18"x 24" Wall mounted SS hand wash sink with winged faucet handles
ELECTRICAL: Dedicated 240 volt 30 Amp circuit for Bone Scan equipment; std 120 volt power
LIGHTING: 2x4 fluorescent lay in
COMMUNICATIONS: (1) Multi-line telephone
COMPUTER: Data outlet on each wall



LEGEND	
	Telephone Jack
	110 V Outlet
	Data Outlet
	Pneumatic Outlet
	Quad 110v Outlet
	CCTV Outlet

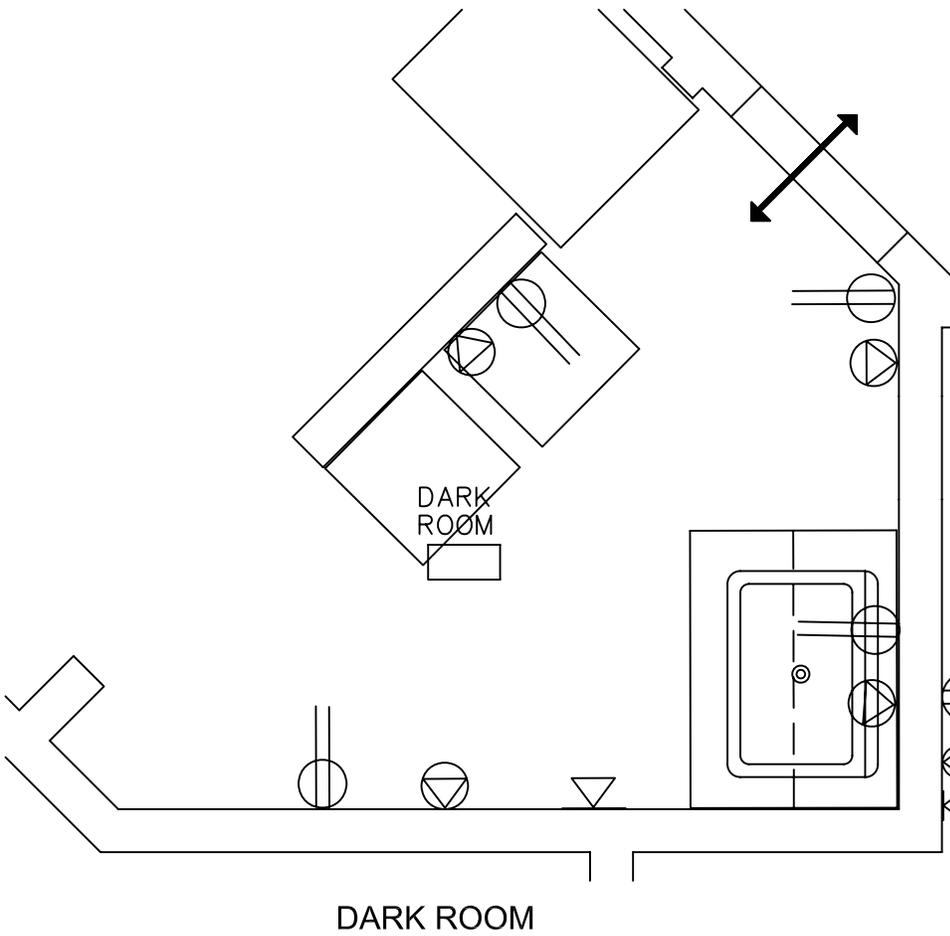
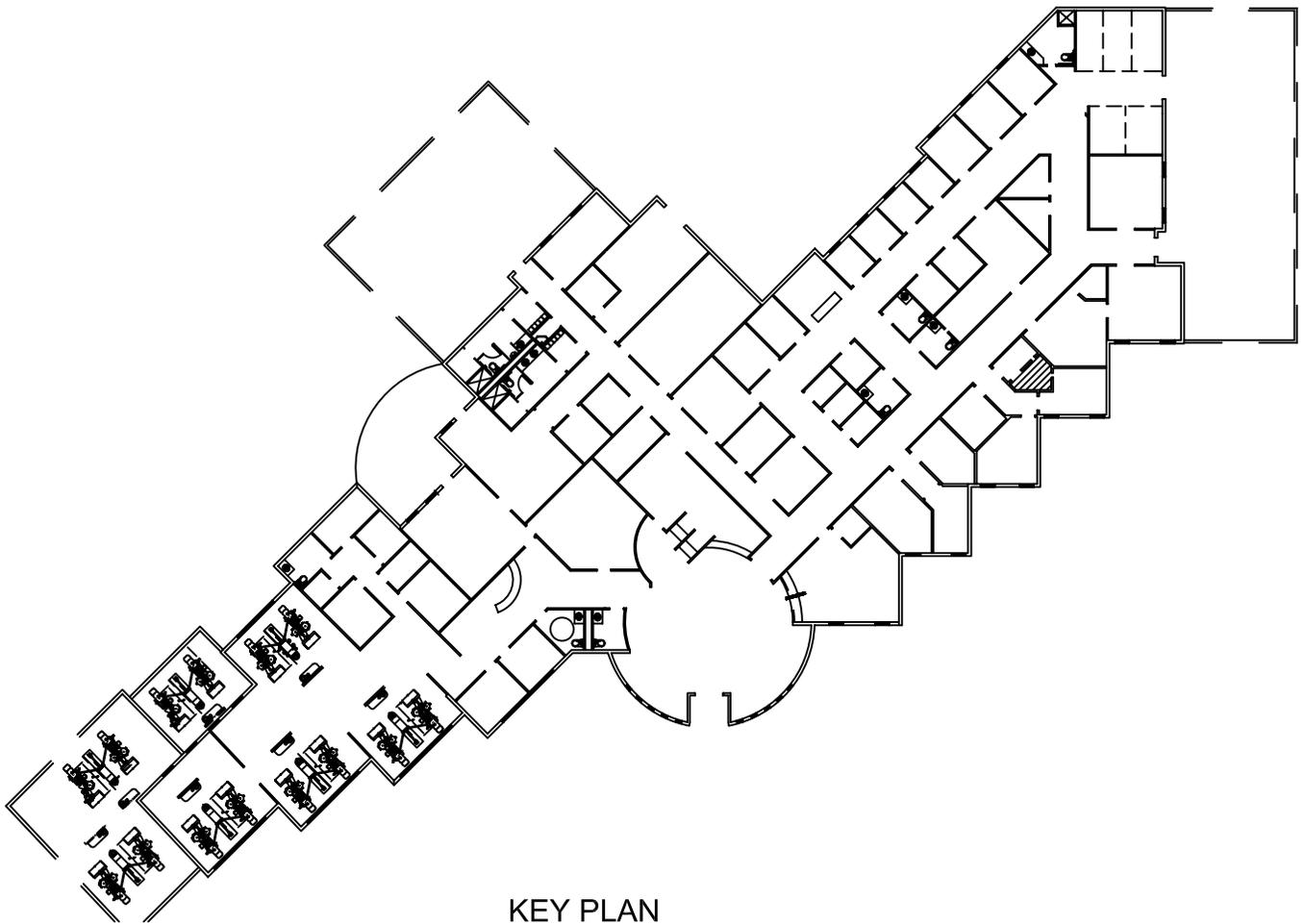
DEPARTMENT: RADIOLOGY/ DIAGNOSTICS
ROOM NAME: PROCESSOR ROOM
AREA REQUIRED: 45 Square Feet
FUNCTION: Area for auto film processor and film storage and archive room
ADJACENCIES: Adjacent to Darkroom w/processor intake; Proximate to other diagnostic equipment spaces
SECURITY CONSIDERATIONS: Lockable door from corridor
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements

ARCHITECTURAL REQUIREMENTS

FLOORS: Linoleum
WALLS: Painted gyp brd
CEILING: 2' x 4' suspended lay-in acoustical ceiling
CEILING HEIGHT: 9'
DOORS: 3' x 7' chemical resistant SC wood door, pass through door into Dark Room
WINDOWS: None
CNTRS/CASEWORK (7 high) 12" x 6" long shelving for film archive and storage, Provide slat wall on all available walls
SOUND CONSIDERATIONS: None
FIXED EQUIPMENT: (2) 16" chemical tanks placed on floor
MOBILE EQUIPMENT: None
FURNISHINGS: None

ENGINEERING REQUIREMENTS

MECHANICAL: Enhanced HVAC to accommodate equipment heat gain
PLUMBING: None.
ELECTRICAL: 120 volt power w/ 20 amp dedicated circuit for film processor
LIGHTING: Dimmable 2x4 fluorescent lay in
COMMUNICATIONS: (1) Multi-line telephone
COMPUTER: Data outlet on each wall



LEGEND

	Telephone Jack
	110 V Outlet
	Data Outlet
	Pneumatic Outlet
	Quad 110v Outlet
	CCTV Outlet

DEPARTMENT: RADIOLOGY/ DIAGNOSTICS
ROOM NAME: DARK ROOM
AREA REQUIRED: 40 Square Feet
FUNCTION: Area for removal of x-ray film prior to inserting into processing machine
ADJACENCIES: Adjacent to X-ray, processor room; Proximate to other diagnostic equipment spaces
SECURITY CONSIDERATIONS: Lockable from corridor;
ADA CONSIDERATIONS: Full compliance with ADA Guideline Requirements.

ARCHITECTURAL REQUIREMENTS

FLOORS: Linoleum
WALLS: Painted gyp brd.
CEILING: 2' x4' suspended lay-in acoustical ceiling
CEILING HEIGHT: 9'
DOORS: 3' x7' SC chemical resistant wood door; 18"x 18" pass through door from X-ray, pass through door from Processor room.
WINDOWS: None
CNTRS/CASEWORK 24" X 4' long x 36" high base cab w/ corian countertop and SS sink; Upper cabs w/ doors and slat wall lining. Film bin under counter.
SOUND CONSIDERATIONS: None
FIXED EQUIPMENT: 16"x16" chemical tanks placed on floor
MOBILE EQUIPMENT: None
FURNISHINGS: None

ENGINEERING REQUIREMENTS

MECHANICAL: Enhanced ventilation to accommodate equipment heat gain
PLUMBING: 18" x 24" SS sink in countertop w/ winged faucet handles, Floor Drain
ELECTRICAL: 120 volt power
LIGHTING: Dimmable 2x4 fluorescent lay in
COMMUNICATIONS: (1) Multi-line telephone jack
COMPUTER: Data outlet on each wall

OUTLINE SPECIFICATIONS

for

MONUMENT VALLEY HEALTH CLINIC

UTAH NAVAJO HEALTH SYSTEM, INC.

MONUMENT VALLEY, UTAH

January 27, 2006

Eton
77 West 200 South, Suite 302
Salt Lake City, UT 84101
Tel 801/328-2982 Fax 801/328-2111



architecture



Eaton Architecture
77 West 200 South, Ste 302
Salt Lake City, Utah 84101
801 328-2982

OUTLINE SPECIFICATIONS

MONUMENT VALLEY HEALTH CLINIC

Utah Navajo Health Systems

Monument Valley, Utah

DIVISION 1 - GENERAL REQUIREMENTS

NOV-93 01010 SUMMARY OF WORK

Construct a Medical Clinic within the Navajo Reservation to serve all of the Monument Valley area.

The five acre site is located on the Utah-Arizona border such that the south property line of the project is the state line. The site slopes gently up from State Highway 163 to the west and the building sits in the approximate center of the 400' x 500' boundaries of the property. There may be the need to retain runoff water from hardsurfaces of the site and an answer on this question will be coming forth by addendum.

The building will be built as per the IBC definition of a clinic or B occupancy requirements. Some areas will have the infrastructure to achieve an I-Occupancy status should the Indian Health Services Inc. have a need for a more stringent hospital services. The project will include Concrete driveways and parking lots, subsurface drainfields to accommodate sanitary sewer needs.

The building will be heated and cooled utilizing a ground source heat pump concept. Construction of the facility will be masonry, exterior stucco and a roof sloping to the interior roof drains.

The following technical specification sections are provided to reference those materials which may be used for the project. Other sections may be added or some detected as the design process continues.

01020 ALLOWANCES
01026 UNIT PRICES
01027 APPLICATIONS FOR PAYMENT
01030 ALTERNATES
01035 MODIFICATION PROCEDURES
01040 COORDINATION

01045 CUTTING AND PATCHING
01050 FIELD ENGINEERING
01200 PROJECT MEETINGS
01300 SUBMITTALS
01400 QUALITY CONTROL
01421 REFERENCE STANDARDS AND DEFINITIONS
01500 CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS
01600 MATERIALS AND EQUIPMENT
01631 SUBSTITUTIONS
01700 CONTRACT CLOSEOUT
01740 WARRANTIES

DIVISION 2 - SITE CONSTRUCTION

02080 UTILITY MATERIALS
02230 SITE CLEARING
02300 EARTHWORK
02511 HOT-MIX ASPHALT PAVING
02530 SANITARY SEWERAGE
02630 STORM DRAINAGE
02751 CEMENT CONCRETE PAVEMENT
02764 PAVEMENT JOINT SEALANTS
02780 UNIT PAVERS
02813 LAWN SPRINKLER PIPING
02821 CHAIN-LINK FENCES AND GATES
02900 LANDSCAPING

DIVISION 3 - CONCRETE

03300 CAST-IN-PLACE CONCRETE
03355 SPECIAL CONCRETE FINISHES

DIVISION 4 - MASONRY

04410 STONE MASONRY VENEER
04810 UNIT MASONRY ASSEMBLIES

DIVISION 5 - METALS

05120 STRUCTURAL STEEL
05210 STEEL JOISTS
05310 STEEL DECK
05400 COLD-FORMED METAL FRAMING
05500 METAL FABRICATIONS
05700 ORNAMENTAL METAL

DIVISION 6 - WOOD AND PLASTICS

06100 ROUGH CARPENTRY
06105 MISCELLANEOUS CARPENTRY

06200 FINISH CARPENTRY
06402 INTERIOR ARCHITECTURAL WOODWORK

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

07160 BITUMINOUS DAMPPROOFING
07210 BUILDING INSULATION
07241 EXTERIOR INSULATION AND FINISH SYSTEMS - CLASS PB
07531 EPDM SINGLE-PLY MEMBRANE ROOFING
07533 THERMOPLASTIC SINGLE-PLY MEMBRANE ROOFING
07620 SHEET METAL FLASHING AND TRIM
07710 MANUFACTURED ROOF SPECIALTIES
07720 ROOF ACCESSORIES
07841 THROUGH-PENETRATION FIRESTOP SYSTEMS
07920 JOINT SEALANTS

DIVISION 8 - DOORS AND WINDOWS

08110 STEEL DOORS AND FRAMES
08211 FLUSH WOOD DOORS
08305 ACCESS DOORS
08331 OVERHEAD COILING DOORS
08361 SECTIONAL OVERHEAD DOORS
08410 ALUMINUM ENTRANCES AND STOREFRONTS
08460 AUTOMATIC ENTRANCE DOORS
08462 SWINGING AUTOMATIC ENTRANCE DOORS
09310 CERAMIC TILE
09511 ACOUSTICAL PANEL CEILINGS
09651 RESILIENT TILE FLOORING
09652 SHEET VINYL FLOOR COVERINGS
09653 RESILIENT WALL BASE AND ACCESSORIES
09680 CARPET
09900 PAINTING

DIVISION 10 - SPECIALTIES

10100 VISUAL DISPLAY BOARDS
10155 TOILET COMPARTMENTS
10200 LOUVERS AND VENTS
10270 ACCESS FLOORING
10350 FLAGPOLES
10416 DIRECTORIES AND BULLETIN BOARDS
10425 SIGNS
10505 METAL LOCKERS
10520 FIRE-PROTECTION SPECIALTIES
10605 WIRE MESH PARTITIONS
10801 TOILET AND BATH ACCESSORIES

DIVISION 11 - EQUIPMENT

11132 PROJECTION SCREENS

DIVISION 12 - FURNISHINGS

12356 KITCHEN CASEWORK
12511 HORIZONTAL LOUVER BLINDS
12690 FLOOR MATS AND FRAMES

DIVISION 13 - SPECIAL CONSTRUCTION

DIVISION 14 - CONVEYING SYSTEMS

DIVISION 15 – MECHANICAL SPECIFICATIONS

02700 GEOTHERMAL LOOP HEATING EXCHANGER
15100 MECHANICAL REQUIREMENTS
15150 BALANCING, MAINTENANCE MANUALS, AND IDENTIFICATION
15200 INSULATION
15300 SEISMIC AND VIBRATION CONTROL
15300 PIPING SYSTEMS, SPECIALTIES AND VALVES
15400 PLUMBING SYSTEMS
15500 WET PIPE FIRE SUPPRESSION SPRINKLERS & PIPING
15700 HEAT TRANSFER SYSTEMS
15800 AIR DISTRIBUTION, HEATING AND AIR CONDITIONING
15900 AUTOMATIC TEMPERATURE CONTROL SYSTEM
15995 COMMISSIONING HVAC SYSTEMS

DIVISION 16 – ELECTRICAL

16001 ELECTRICAL GENERAL PROVISIONS
16070 ELECTRICAL CONNECTIONS FOR EQUIPMENT
16072 ELECTRICAL SUPPORT & SEISMIC RESTRAINTS
16110 CONDUIT RACEWAYS
16111 RACEWAY SYSTEMS
16120 CONDUCTORS & CABLES
16124 MEDIUM VOLTAGE CABLES
16135 ELECTRICAL BOXES & FITTINGS
16140 WIRING DEVICES
16155 MOTOR STARTERS
16156 VARIABLE FREQUENCY DRIVES
16160 PANELBOARDS
16170 DISCONNECTS SWITCHES
16180 OVERCURRENT PROTECTIVE DEVICES
16181 TRANSFORMERS
16182 SWITCHBOARDS
16289 TVSS SYSTEMS
16420 SERVICE ENTRANCE
16452 GROUNDING
16510 INTERIOR AND EXTERIOR BUILDING LIGHTING
16532 FLUORESCENT EMERGENCY BALLASTS

16551 EXTERIOR AREA LIGHTING
16560 LIGHTING CONTROL EQUIPMENT
16715 VOICE AND DATA COMMUNICATION CABLING
16721 FIRE ALARM & DETECTION SYSTEMS
16740 TELEPHONE/DATA SYSTEMS
16780 TELEVISION SYSTEMS
16787 NURSE CALL SYSTEMS

MONUMENT VALLEY HEALTH CLINIC

UTAH NAVAJO HEALTH SYSTEM STATE OF UTAH

SCHEMATIC DESIGN JANUARY 27, 2006

DESIGN TEAM

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LIST OF DRAWINGS:

ARCHITECTURAL

AS101 SITE PLAN
AS102 SITE PLAN
A101 FLOOR PLAN
AA101 FLOOR PLAN
AB101 FLOOR PLAN
AC101 FLOOR PLAN
A201 EXTERIOR ELEVATIONS
A301 BUILDING SECTION
A401 ROOF PLAN

STRUCTURAL

S102 ROOF FRAMING PLAN

MECHANICAL

M00 MECHANICAL LEGEND
M10 MECHANICAL / PLUMBING PLAN
M20 MECHANICAL / PLUMBING SCHEDULES
M30 MECHANICAL DETAILS
M40 PIPING SCHEMATIC

ELECTRICAL

E101 SYMBOLS AND NOTES
E102 SCHEDULES
E201 ELECTRICAL SITE PLAN
E301 LIGHTING PLAN
E401 POWER PLAN
E501 SPECIAL SYSTEMS PLAN
E601 ONE-LINE DIAGRAM
E701 RISER DIAGRAMS

CODE ANALYSIS

APPLICABLE CODES	
YEAR	YEAR
INTERNATIONAL BUILDING CODE	NATIONAL ELECTRICAL CODE
INTERNATIONAL MECHANICAL CODE	UNIFORM CODE FOR BUILDING CONSERVATION
INTERNATIONAL PLUMBING CODE	INTERNATIONAL FIRE CODE
INTERNATIONAL ENERGY CONSERVATION CODE	ADA ACCESSIBILITY GUIDELINES

A. OCCUPANCY AND GROUP: _____
 CHANGE IN USE: YES _____ NO _____ MIXED OCCUPANCY: YES _____ NO _____
 SPECIAL USE AND OCCUPANCY (E.G. HIGH RISE COVERED MALLS) _____

B. SEISMIC DESIGN CATEGORY: _____ DESIGN WIND SPEED: _____ MPH

C. TYPE OF CONSTRUCTION/CIRCLE AREA
 I _____ II _____ III _____ IV _____ V _____ VI _____ VII _____ VIII _____

D. FIRE RESISTANCE RATINGS. REQUIREMENTS FOR THE EXTERIOR WALLS BASED ON THE FIRE SEPARATION DISTANCE (IN HOURS)
 NORTH _____ SOUTH _____ EAST _____ WEST _____

E. MIXED OCCUPANCIES: _____ NONSEPARATED USES: _____

F. SPRINKLERS:
 REQUIRED: _____ PROVIDED: _____ TYPE OF SPRINKLER SYSTEM: _____

G. NUMBER OF STORIES: _____ BUILDING HEIGHT: _____

H. ACTUAL AREA PER FLOOR (SQUARE FEET) _____

I. TABULAR AREA: _____

J. AREA MODIFICATIONS:

$$A = A_n \left[\frac{A_1}{100} \right] \left[\frac{A_2}{100} \right] \quad I = 100 \left[\frac{E - 0.25}{30} \right] W$$

K. FIRE RESISTANCE RATINGS REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)

ELEMENT	MIN. ASSEMBLY LISTING	ELEMENT	MIN. ASSEMBLY LISTING
EXTERIOR BEARING WALLS		FLOORS-CEILING FLOORS	
INTERIOR WALLS		ROOFS-CEILING ROOFS	
EXTERIOR NON-BEARING WALLS		EXTERIOR DOORS AND WINDOWS	
STRUCTURAL FRAME		SHAFT ENCLOSURES	
PARTITIONS-PERMANENT		FIRE WALLS	
FIRE BLANKETS		FIRE PARTITIONS	
		SMOKE PARTITIONS	

L. DESIGN OCCUPANT LOAD: _____
 EXIT WIDTH REQUIRED: _____ EXIT WIDTH PROVIDED: _____

M. MINIMUM NUMBER OF REQUIRED PLUMBING FACILITIES:
 a) WATER CLOSETS REQUIRED: (R) _____ PROVIDED: (P) _____
 b) LAVATORIES REQUIRED: (R) _____ PROVIDED: (P) _____
 c) BATH TUBS OR SHOWERS: _____
 d) DRINKING FOUNTAINS: _____ SERVICE SINKS: _____

FOOTNOTES:
 1) IN CASE OF CONFLICT WITH THE U.S. DEPARTMENT OF JUSTICE FEDERAL REGULATIONS PARTS 119.10 AND 119.11, AND THE U.S. DEPARTMENT OF JUSTICE FEDERAL REGULATIONS PARTS 119.12 AND 119.13, THE MORE RESTRICTIVE REQUIREMENT SHALL GOVERN.
 2) ADDITIONAL CODE INFORMATION SHALL BE PROVIDED AT THE DISCRETION OF THE BUILDING OFFICIAL FOR COMPLEX BUILDINGS, INCLUDING, BUT NOT LIMITED TO:
 a) HIGH RISE REQUIREMENTS.
 b) ATRULPS.
 c) PERFORMANCE BASED CRITERIA.
 d) TREAT OR EXPRESS ANALYSIS.
 e) FIRE ASSEMBLY LOCATOR SHEET.
 f) EXTERIOR AND INTERIOR ACCESSIBILITY ROUTE.
 g) FIRE STOPPING, INCLUDING TESTED DESIGN NUMBER.

REFERENCE NOTES

NOTES.



CONSULTANTS

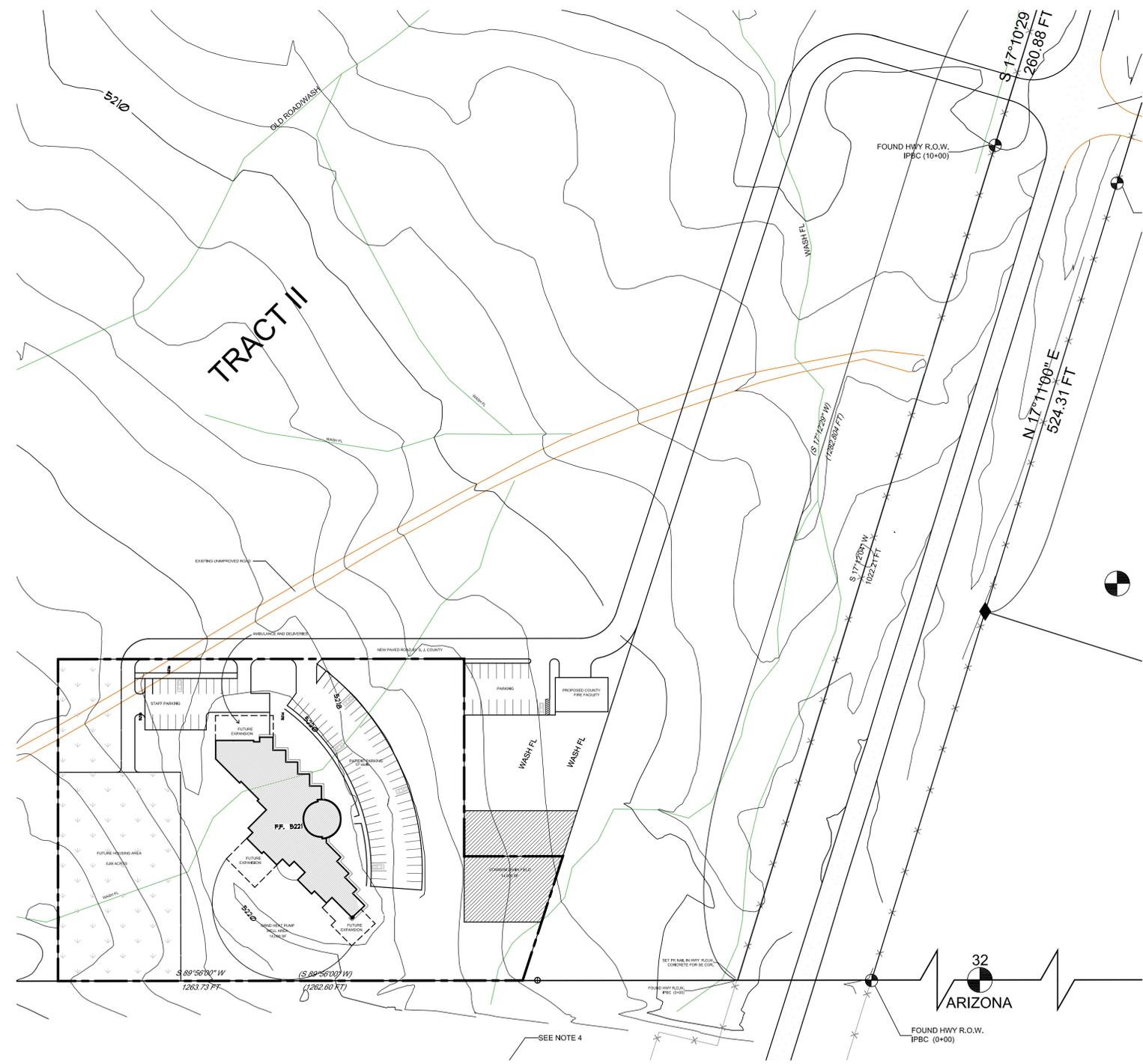
MONUMENT VALLEY HEALTH CLINIC
 MONUMENT VALLEY, UTAH
 OWNER
 STATE OF UTAH/ UTAH NAVAJO HEALTH SYSTEMS

MARK	DATE	DESCRIPTION
	01-12-06	

PROJECT NUMBER: 2005-25
 DRAWING FILE:
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SHEET TITLE
SITE PLAN

AS101
 OF



SITE PLAN
 SCALE: 1/64" = 1'-0"



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MONUMENT VALLEY, UTAH

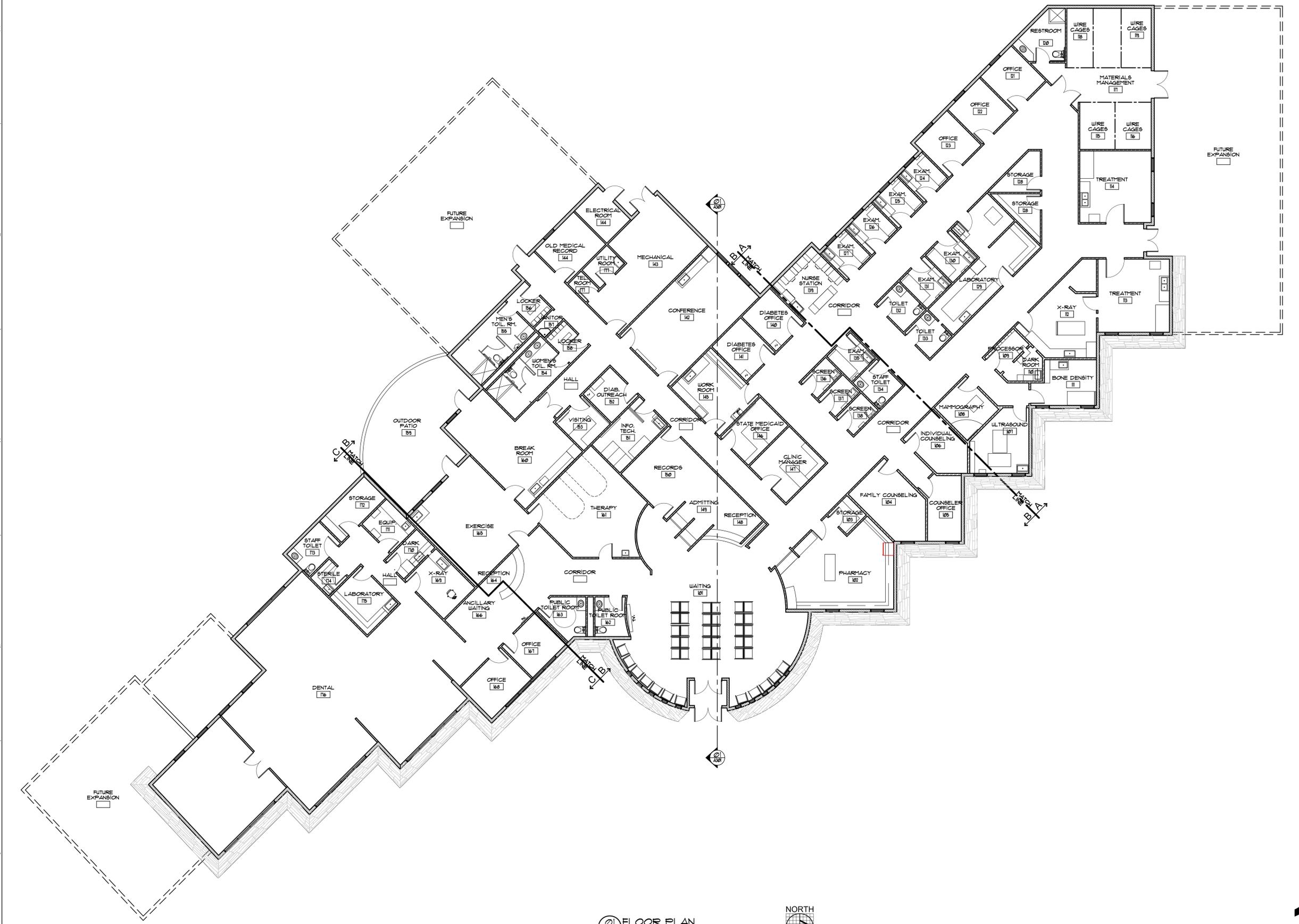
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	01-12-06	

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SHEET TITLE
FLOOR PLAN

A101
OF



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

MONUMENT VALLEY HEALTH CLINIC
MONUMENT VALLEY, UTAH

OWNER
STATE OF UTAH/ UTAH NAVAJO HEALTH SYSTEMS

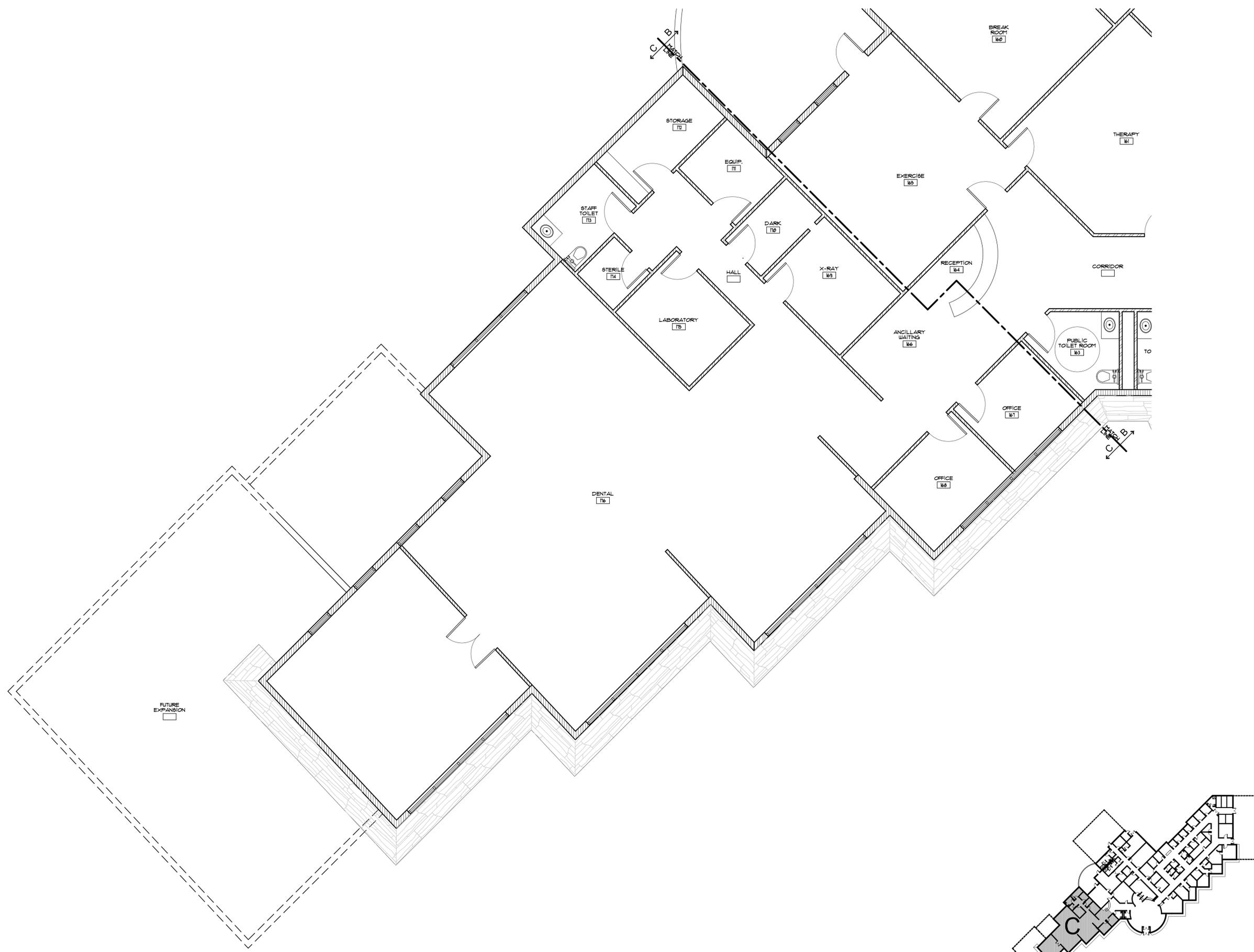
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SHEET TITLE
FLOOR PLAN

AC101

OF



02 FLOOR PLAN
AC101 SCALE: 1/4" = 1'-0"

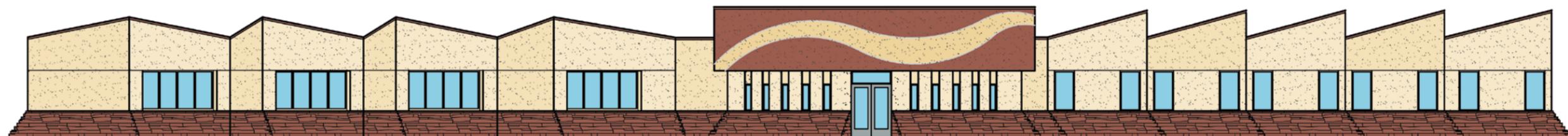


01 KEY PLAN
AC101 SCALE: NOT TO SCALE

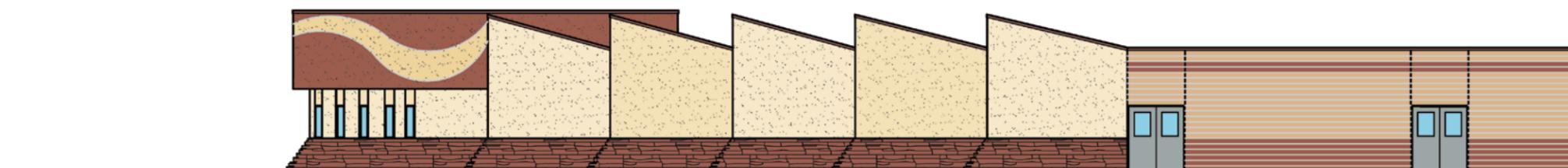




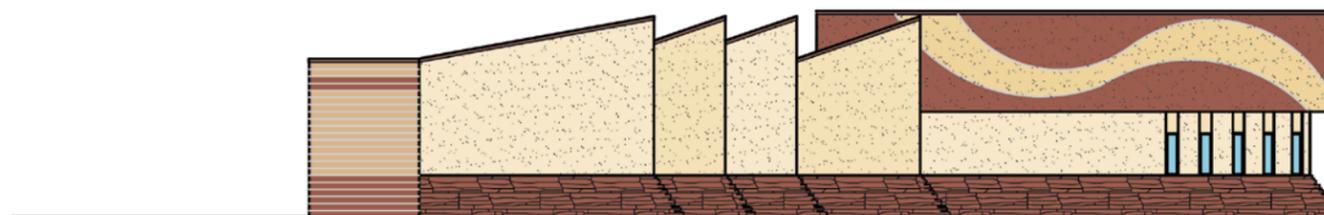
CONSULTANTS



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



02 NORTH ELEVATION
SCALE: 1/8" = 1'-0"



01 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

MONUMENT VALLEY HEALTH CLINIC
MONUMENT VALLEY, UTAH

OWNER
STATE OF UTAH/ UTAH NAVAJO HEALTH SYSTEMS

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	12-12-05	

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SHEET TITLE
ELEVATIONS

A201

OF

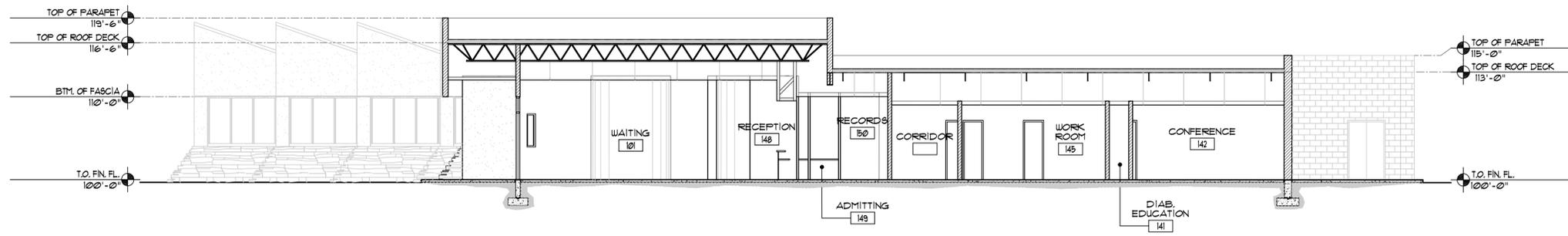


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MONUMENT VALLEY HEALTH CLINIC
MONUMENT VALLEY, UTAH

STATE OF UTAH/ UTAH NAVAJO HEALTH SYSTEMS

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01 BUILDING SECTION
A301 SCALE: 1/8" = 1'-0"

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SHEET TITLE
BUILDING SECTION

A301
OF

CONSULTANTS

MONUMENT VALLEY HEALTH CLINIC
MONUMENT VALLEY, UTAH

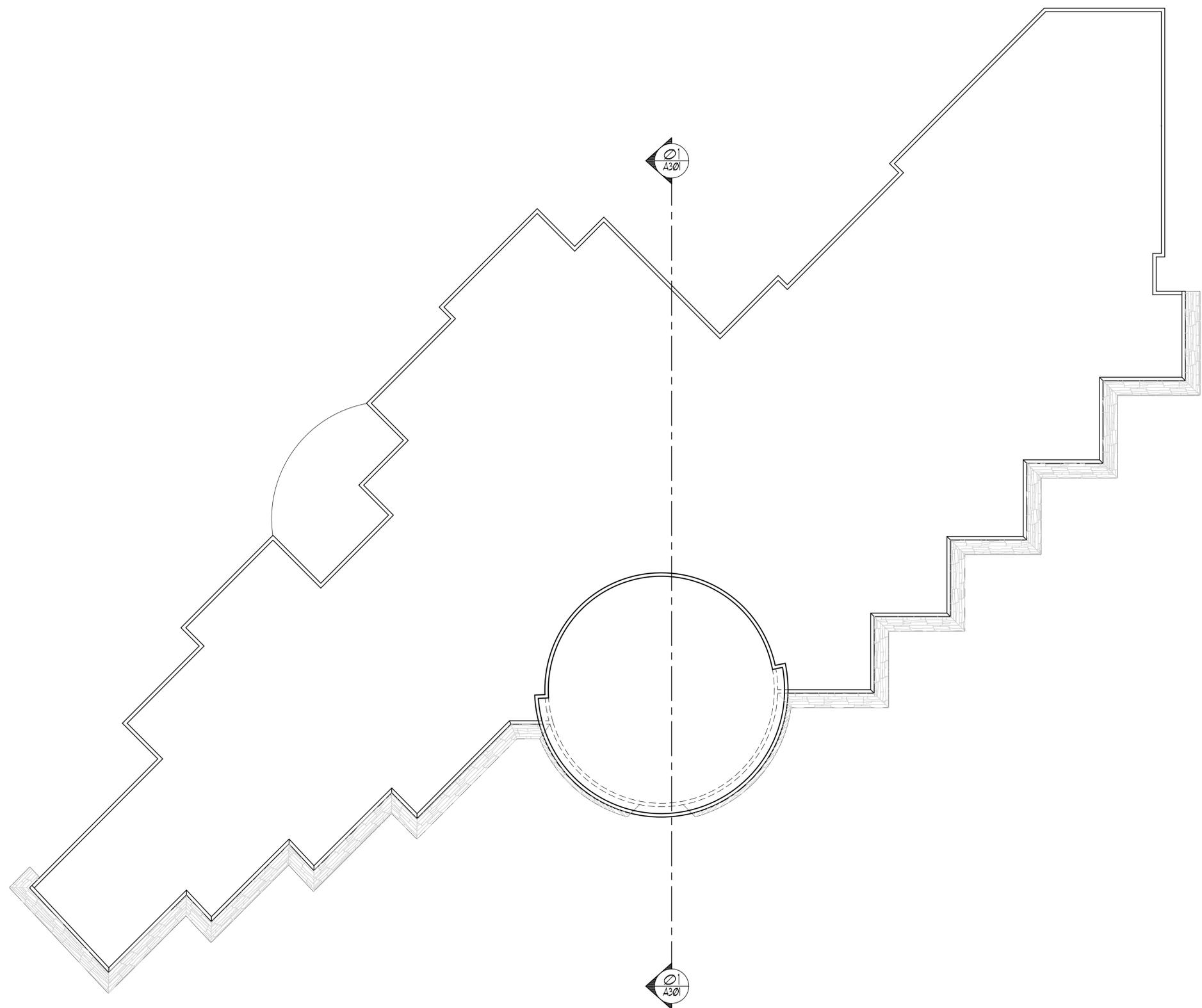
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SHEET TITLE
ROOF PLAN

A401
OF



A401 ROOF PLAN
SCALE: 3/32" = 1'-0"



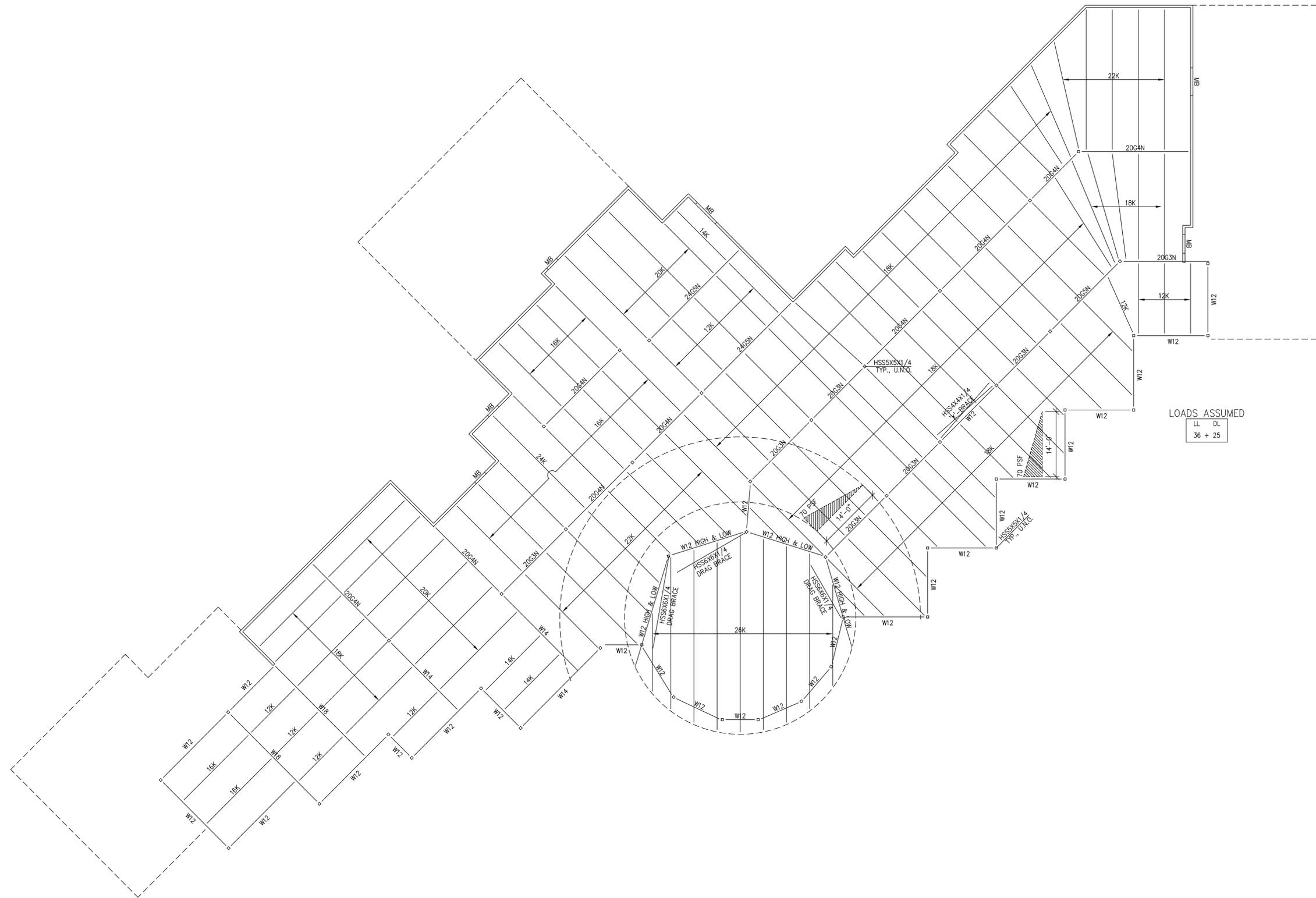
CONSULTANTS

TANNER SMITH BARFUSS & ASSOCIATES
233 N 1250 W #210 CENTERVILLE, UT 84014

MONUMENT VALLEY HEALTH CLINIC

MONUMENT VALLEY, UTAH

OWNER
STATE OF UTAH/ UTAH NAVAJO HEALTH SYSTEMS



01 ROOF FRAMING PLAN
S102 SCALE: 3/32" = 1'-0"



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SHEET TITLE
ROOF FRAMING PLAN

S102
OF

LEGEND OF MECHANICAL SYMBOLS AND ABBREVIATIONS

SINGLE LINE	DOUBLE LINE		
		POSITIVE PRESSURE DUCT - RISE OR DROP	
		POSITIVE PRESSURE DUCT - DROP	
		NEGATIVE PRESSURE DUCT - RISE	
		NEGATIVE PRESSURE DUCT - DROP	
		ROUND DUCT - RISE	
		ROUND DUCT - DROP	
		TURNING VANES	
		RETURN AIR GRILLE WITH SOUND BOOT	
		<p>TOP FIGURE INDICATES CFM. BOTTOM FIGURES INDICATE NECK SIZE. BRANCH DUCT SIZE IS FULL SIZE OF DIFFUSER/REGISTER CONNECTION, UNLESS NOTED OTHERWISE.</p>	
			CEILING RETURN REGISTER
			CEILING EXHAUST REGISTER
			SIDEWALL SUPPLY REGISTER
			SIDEWALL EXHAUST OR RETURN REGISTER
			CEILING SUPPLY DIFFUSER WITH FLEXIBLE DUCT
			CEILING PLENUM RETURN REGISTER
			FLEXIBLE DUCT CONNECTION
			FLEXIBLE DUCT
			FAN
		RECTANGULAR DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.	
		ROUND DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.	
		<p>WITH RESPECT TO AIR FLOW 15° NOMINAL INCLINE WITH RADIUS TURNS=DEPTH OF DUCT.</p>	
			INCLINED DROP
		R/W=1. ROUND DUCT SIMILAR TO RECTANGULAR	
		RECTANGULAR TO RECTANGULAR OR ROUND TO ROUND DUCT TRANSFORMATION MAXIMUM 15° INCLUDED ANGLE EXCEPT WHERE SHOWN OTHERWISE.	
		RECTANGULAR TO ROUND DUCT TRANSFORMATION	
		BRANCH DUCT SPLIT WITH 6" WIDTH AND MIN. R=WIDTH OF BRANCH DUCT DOWNSTREAM. ELBOW TURNING VANE OPTIONAL.	
		TAP ENTRY AREA EQUALS 150% OF BRANCH AREA	

SINGLE LINE	DOUBLE LINE		
		SINGLE BLADE OR MULTIBLADE VOLUME DAMPER	
		BACKDRAFT DAMPER	
		COMBINATION FIRE/SMOKE DAMPERS	
		ATC DAMPER	
		ACCESS PANEL	
		ACCESS PANEL IN DUCT OR PLENUM	
		RECTANGULAR DUCT SECTION	
			RETURN
			EXHAUST
		ROUND DUCT SECTION	
		SUPPLY DIFFUSER 4-WAY BLOW	
		SUPPLY DIFFUSER 3-WAY BLOW	
		SUPPLY DIFFUSER 2-WAY BLOW	
		SUPPLY DIFFUSER 1-WAY BLOW	

	PIPE BRANCH - IN TO PLANE
	PIPE BRANCH - OUT OF PLANE
	PIPE BRANCH - IN PLANE
	90° ELBOW
	45° ELBOW
	SIDE OUT DOWN ELBOW
	SIDE UP OUT ELBOW
	DOUBLE ELBOW
	STRAIGHT TEE (PIPE BRANCH - IN PLANE)
	CROSS
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	LATERAL STRAINER
	LATERAL STRAINER WITH BLOW-OFF VALVE
	GATE VALVE
	ATC VALVE - 3 WAY
	GLOBE VALVE
	UNION

	SHUT-OFF VALVE
	CHECK VALVE
	MOTOR OPERATED BUTTERFLY VALVE
	GAS SHUT-OFF VALVE
	EXPANSION JOINT
	RELIEF VALVE
	PNEUMATIC-ELECTRIC CONTROL VALVE
	SOLENOID VALVE
	ALIGNMENT GUIDE
	ANCHOR
	PRESSURE GAUGE WITH COCK
	PRESSURE SWITCH
	FLANGE
	UNION
	FLOW METER ORIFICE
	AIR VENT-MANUAL
	AIR VENT-AUTO
	FLOW SWITCH
	SLEEVE
	THERMOMETER 0-100°F
	THERMOMETER 30-240°F
	THERMOSTAT OR ROOM TEMP. SENSOR
	NIGHT THERMOSTAT
	DUCT SMOKE DETECTOR
	SHUT-OFF COCK FOR USE WITH PRESSURE GAUGE
	PUMP
	REDUCER
	EXPANSION LOOP
	FLEXIBLE CONNECTION
	FLOW METER
	ARROW INDICATES DIRECTION OF FLOW IN PIPE LEADER INDICATES DOWNWARD SLOPE
	PIPE INTO PLANE
	PIPE OUT OF PLANE

	CONDENSATE DRAIN
	MAKE UP WATER
	VENT
	VENT THRU ROOF
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RETURN
	PROPANE (LPG)
	FLOW CONTROL VALVE
	CALIBRATED BALANCING VALVE
	WASTE (ABOVE GRADE)
	WASTE (BELOW GRADE)
	ROOF DRAIN
	ROOF DRAIN OVERFLOW
	FCO - FLOOR CLEANOUT
	WCO - WALL CLEANOUT
	COTG - CLEANOUT TO GRADE
	POINT OF CONNECTION
	ROOM NUMBER
	SECTION TAG - TOP FIGURE IS SECTION NO.
	DETAIL TAG - TOP FIGURE IS DETAIL NO. BOTTOM FIGURE IS SHEET NO.
	EQUIPMENT IDENTIFICATION
	KEYED NOTE IDENTIFICATION
	PLUMBING FIXTURES
	GEO THERMAL SUPPLY
	GEO THERMAL RETURN

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	12-09-05	

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SHEET TITLE
MECHANICAL LEGEND

M0.0
OF

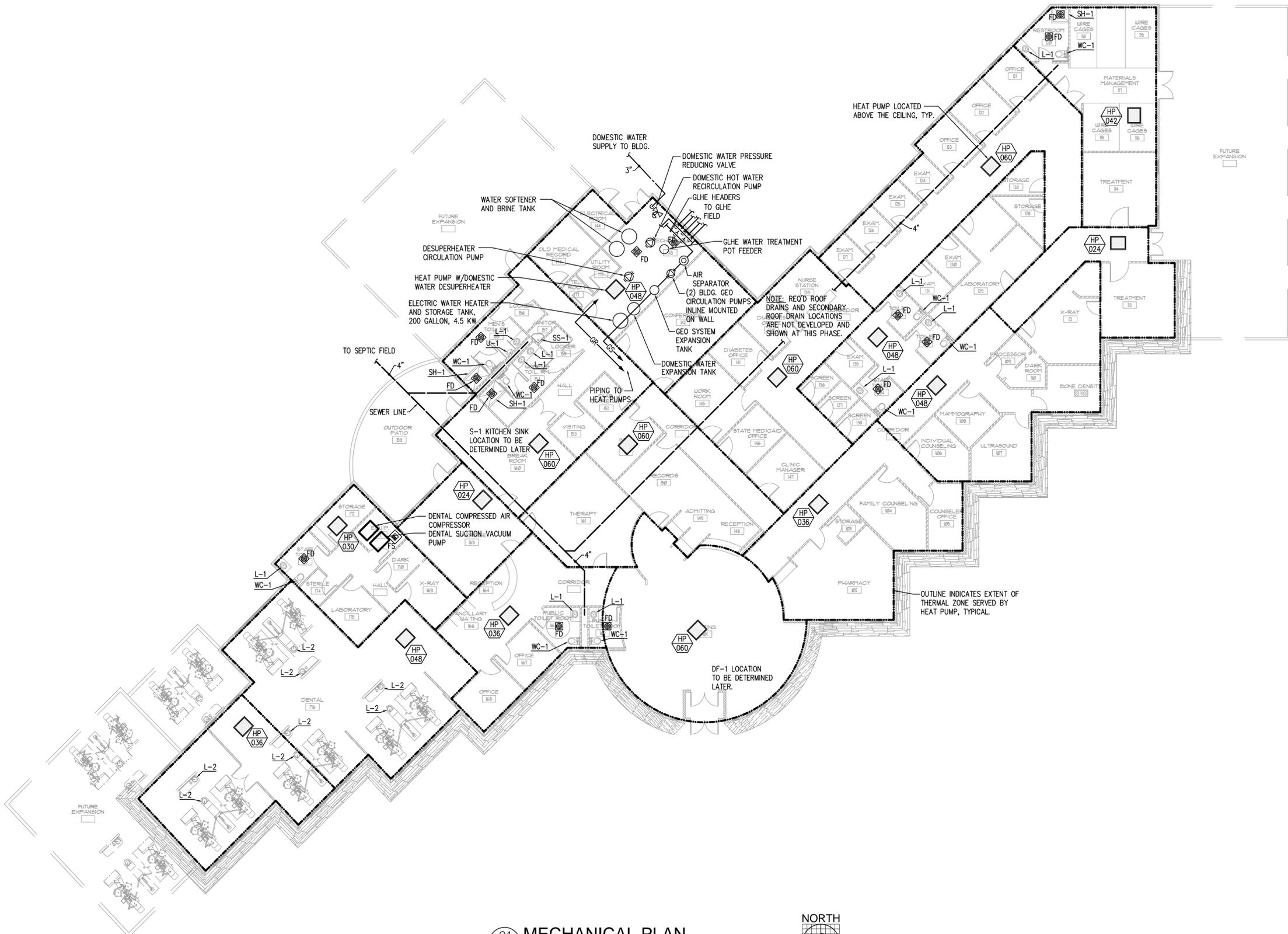


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MONUMENT VALLEY HEALTH CLINIC
MONUMENT VALLEY, UTAH

STATE OF UTAH/ UTAH NAVAJO HEALTH SYSTEMS
OWNER



01 MECHANICAL PLAN
M0.1 SCALE: 3/32" = 1'-0"



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MECHANICAL/PLUMBING PLAN

M1.0
OF

WATER TO AIR HEAT PUMP HEATER SCHEDULE - HIGH EFFICIENCY																	
SYMBOL	MANUF. AND MODEL NO.	ARRANG.	AIR SIDE					FLUID SIDE			ELECTRICAL				WEIGHT (LBS)	REMARKS	
			TOTAL AIR FLOW RATE (CFM)	TOTAL CALC. LOAD (MBH)(*)1	SENSIBLE CALC. LOAD (MBH)(*)1	HEATING LOAD (MBH)(*)2	EXTERNAL STATIC PRESSURE (IN H2O)	FLUID FLOW (GPM)	BRANCH PIPE SIZE (IN)	HOSE KIT & UNIT CONN. SIZE (IN)	WORKING FLUID	MAXIMUM WATER PRESSURE DROP (FT)	MCA	TOTAL FLA			V-HZ-PH
HP-024	TRANE GEH024	HORIZONTAL	800	26.0	17.7	22.1	0.30	4.4	1	1	5% METHANOL	9.3	11.5	9.3	208-60-3	300	1,2,3
HP-036	TRANE GEH036	HORIZONTAL	1,200	32.6	24.9	27.9	0.30	6.6	1 1/4	1	5% METHANOL	4.8	16.6	13.7	208-60-3	350	1,2,3
HP-042	TRANE GEH042	HORIZONTAL	1,400	41.1	29.8	34.3	0.30	7.8	1 1/4	1	5% METHANOL	6.4	17.9	14.7	208-60-3	350	1,2,3
HP-048	TRANE GEH048	HORIZONTAL	1,800	49.2	34.3	40.9	0.30	8.8	1 1/4	1	5% METHANOL	8.8	22.9	19.4	208-60-3	400	1,2,3
HP-060	TRANE GEH060	HORIZONTAL	2,000	60.6	43.1	53.2	0.30	11.6	1 1/4	1	5% METHANOL	12.7	30.4	25.4	208-60-3	400	1,2,3

1. 90 °F EWT; 85 °F db, 67 °F wb EAT.
2. 40 °F EWT, 60 °F EAT.
3. DISCONNECT BY ELECTRICAL.

PLUMBING FIXTURE SCHEDULE						
SYMBOL	FIXTURE	CW (IN)	HW (IN)	W (IN)	V (IN)	REMARKS
DF-1	DRINKING FOUNTAIN	1/2	--	1 1/2	1 1/2	LOCATION TBD
DN-1	DOWNSPOUT NOZZLE	--	--	--	--	SEE PLAN FOR SIZE
FD-1	FLOOR DRAIN	--	--	2	1 1/2	SEE PLAN FOR LOCATIONS
FS-1	FLOOR SINK	--	--	3	2	LOCATION TBD
HB-1	WALL HYDRANT	3/4	--	--	--	NON FREEZE
HB-2	HOSE BIBB	3/4	--	--	--	LOCATION TBD
HA-1	WATER HAMMER ARRESTOR	1	--	--	--	LOCATION TBD
HA-2	WATER HAMMER ARRESTOR	1	--	--	--	LOCATION TBD
L-1	LAVATORY	1/2	1/2	1 1/2	1 1/2	COUNTER MOUNTED, OVAL
L-2	LAVATORY	1/2	1/2	1 1/2	1 1/2	DENTAL LAVATORY
S-1	KITCHEN SINK	1/2	1/2	1 1/2	1 1/2	LOCATION TBD
RD-1	ROOF DRAIN	--	--	--	--	LOCATION TBD
RDO-1	OVERFLOW ROOF DRAIN	--	--	--	--	LOCATION TBD
SS-1	SERVICE SINK	1/2	1/2	3	2	--
TP-1	TRAP PRIMER	1/2	--	--	--	LOCATION TBD
U-1	URINAL	3/4	--	2	1 1/2	ADA COMPLIANT
WC-1	WATER CLOSET	1	--	4	2	FLOOR MOUNTED, FLUSH VALVE, ADA COMPLIANT AS REQD

1. ALL UNDERGROUND WASTE SHALL BE A MINIMUM OF 2" SIZE.

CONSULTANTS

VAN BOERUM & FRANK ASSOCIATES INC.
CONSULTING ENGINEERS
330 South 300 East Salt Lake City, UT 84111
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801.530.3150 F

MONUMENT VALLEY HEALTH CLINIC
MONUMENT VALLEY, UTAH

OWNER
STATE OF UTAH/ UTAH NAVAJO HEALTH SYSTEMS

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MECHANICAL/PLUMBING SCHEDULES

M2.0
OF

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MONUMENT VALLEY HEALTH CLINIC
MONUMENT VALLEY, UTAH

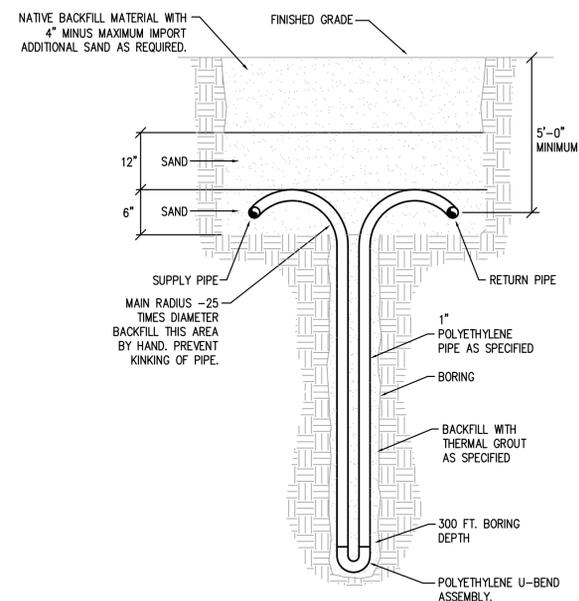
STATE OF UTAH/ UTAH NAVAJO HEALTH SYSTEMS
OWNER

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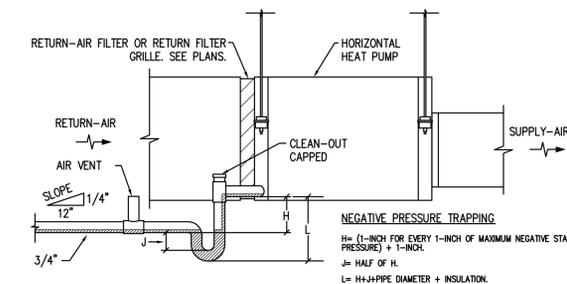
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SHEET TITLE
MECHANICAL DETAILS

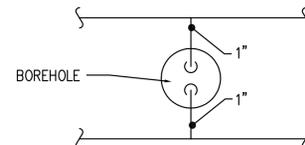
M3.0
OF



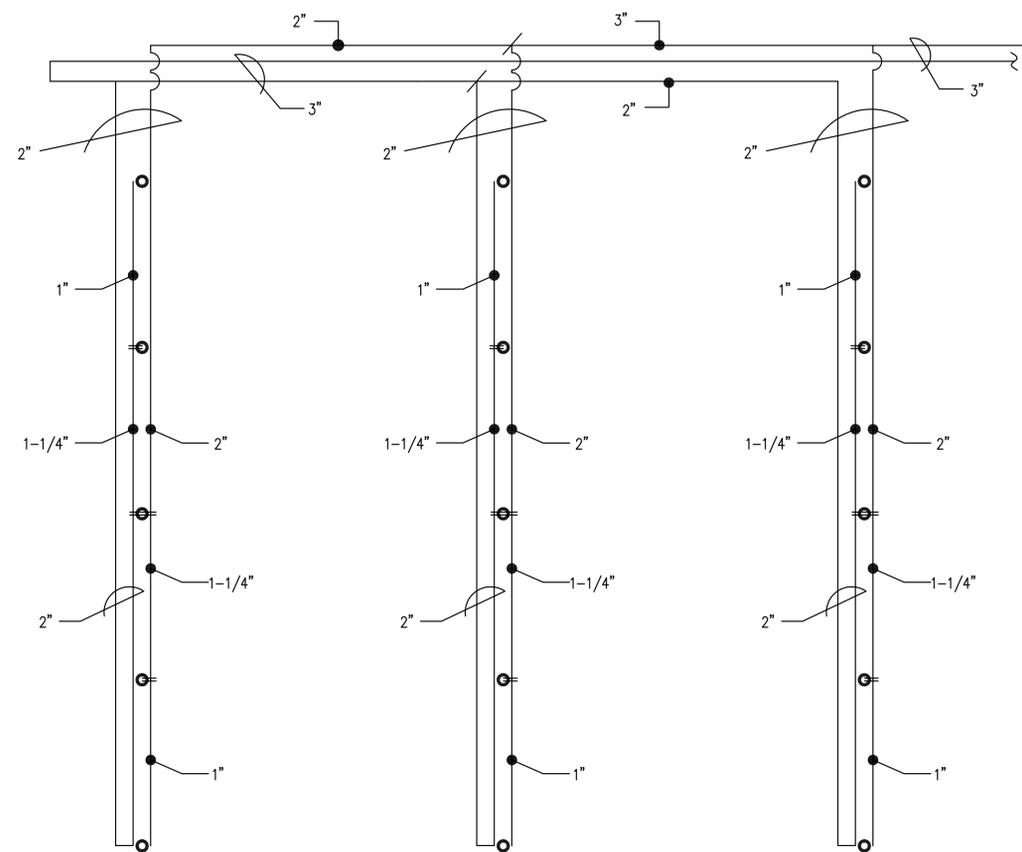
4 SIDEVIEW - BOREHOLE INSTALLATION DETAIL
M3.0 NO SCALE



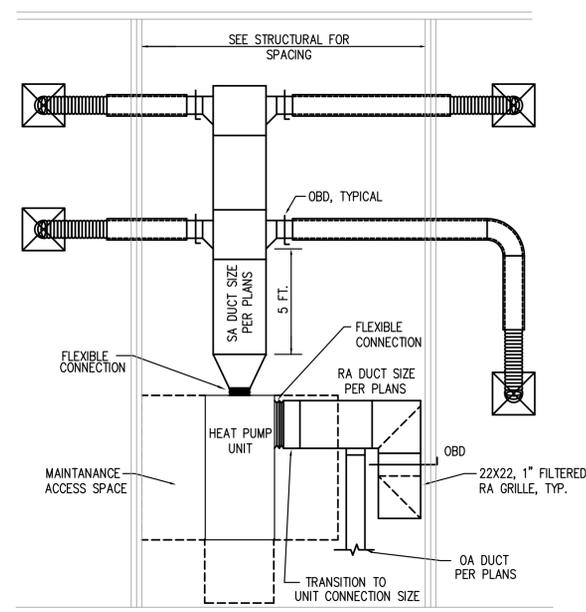
1 HEAT PUMP CONDENSATE P-TRAP DETAIL
M3.0 NO SCALE



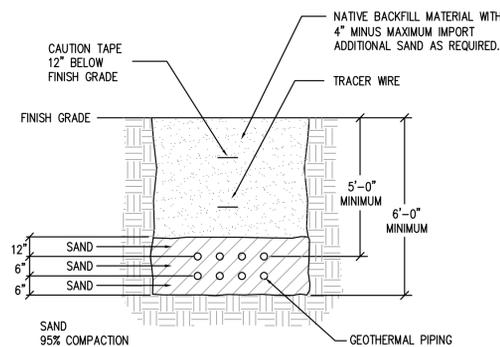
2 TYPICAL BOREHOLE CONNECTION
M3.0 NO SCALE



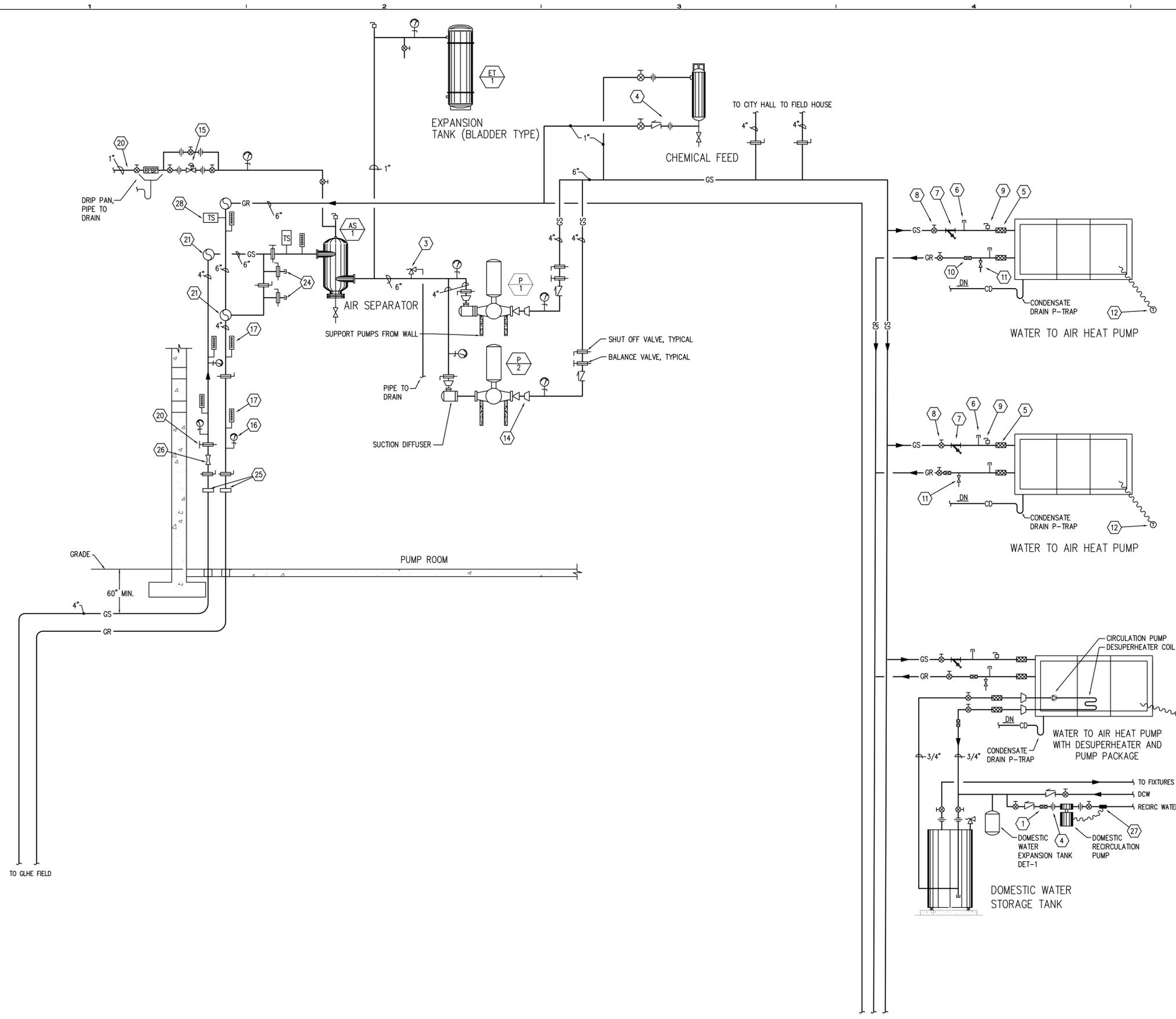
3 TYPICAL SUBFIELD DETAIL
M3.0 NO SCALE



5 TYPICAL HEAT PUMP INSTALLATION LAY IN CEILING
M3.0 NO SCALE

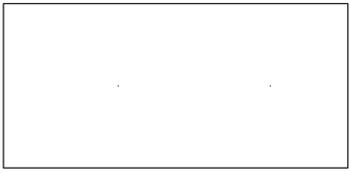


6 COMMON TRENCH DETAIL
M3.0 NO SCALE



- ### KEYED NOTES
- 1 CIRCUIT SETTER.
 - 2 CHECK VALVE, TYPICAL.
 - 3 P&T RELIEF VALVE, TYPICAL.
 - 4 UNION, TYPICAL.
 - 5 FLEXIBLE PIPE WITH THREADED CONNECTION, TYPICAL.
 - 6 P & T PORT, TYPICAL.
 - 7 STRAINER, TYPICAL.
 - 8 SHUT OFF VALVE, TYPICAL.
 - 9 AIR VENT, TYPICAL.
 - 10 FLOW CONTROL VALVE.
 - 11 DRAIN, TYPICAL.
 - 12 THERMOSTAT, TYPICAL.
 - 13 SEE GEO LOOP PIPING PLAN FOR LOCATION OF PIPING EXITING THE PUMP ROOM.
 - 14 REDUCER, TYPICAL.
 - 15 PRESSURE REDUCING, SELF FILLING VALVE, TYPICAL.
 - 16 PRESSURE GAUGE, TYPICAL.
 - 17 THERMOMETER, TYPICAL.
 - 18 CORE DRILL NEW PIPE PENETRATION THRU EXISTING FOUNDATION WALL.
 - 19 BLEED LINE.
 - 20 MAKE UP WATER LINE.
 - 21 HEADER PIPE.
 - 22 SUPPORT STRUCTURE FOR FLUID COOLER.
 - 23 BUTTERFLY BALANCING VALVE.
 - 24 3" PURGE CONNECTIONS.
 - 25 BLACK STEEL TO POLYETHYLENE TRANSITION FITTING.
 - 26 VENTURI.
 - 27 AQUASTAT.
 - 28 TEMPERATURE SENSOR, TYPICAL.

GEO-EXCHANGE/HEAT PUMP SCHEMATIC
NO SCALE



MONUMENT VALLEY HEALTH CLINIC
MONUMENT VALLEY, UTAH

OWNER
STATE OF UTAH/ UTAH NAVAJO HEALTH SYSTEMS

MARK	DATE	DESCRIPTION
	12-09-05	

PROJECT NUMBER: 2005-25
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SHEET TITLE
PIPING SCHEMATIC

M4.0
OF

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GENERAL PROJECT NOTES:

- DIVISION 16000 CONTRACTOR IS RESPONSIBLE FOR READING AND APPLYING WHAT IS IN THE SPECIFICATIONS TO THIS PROJECT. ANYTHING THAT IS NOT INCLUDED ON THE PROJECT THAT IS CALLED OUT IN THE SPECIFICATION SHALL BE LISTED ON THE SUBSTANTIAL COMPLETION PUNCHLIST. THE CONTRACTOR WILL BE REQUIRED TO REMEDY THESE DEFICIENCIES. THERE WILL BE NO EXCEPTIONS.
- THE CONTRACTOR MAY SCHEDULE A PRE-CONSTRUCTION MEETING. AT THEIR DISCRETION WITH THE ELECTRICAL ENGINEER AND REVIEW THE DRAWINGS AND SPECIFICATIONS. THE MEETING SHALL BE A MAXIMUM OF ONE HOUR AND SHALL TAKE PLACE AT THE ENGINEER'S OFFICE.
- THE FOLLOWING ITEMS ARE SOME OF THE REQUIREMENTS THAT ARE LISTED IN THE SPECIFICATIONS, THESE ITEMS DO NOT REPRESENT ALL ITEMS AND THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL REQUIREMENTS OF THE SPECIFICATIONS:
 - INSULATED THROAT CONNECTORS OR PLASTIC BUSHINGS SHALL BE UTILIZED FOR ALL CONDUIT SIZES USED ON THIS PROJECT.
 - A #10 AWG NEUTRAL CONDUCTOR WILL BE PROVIDED FOR ALL FLUORESCENT LIGHTING CIRCUITS.
 - THE CONTRACTOR IS RESPONSIBLE FOR UPSIZING CONDUCTORS FOR VOLTAGE DROP PER THE NEC REGARDLESS OF WHETHER IT IS SHOWN ON THE PLANS OR NOT.
 - THE CONTRACTOR SHALL LABEL ALL ELECTRICAL EQUIPMENT AS IT IS CALLED OUT IN THE SPECIFICATIONS.
 - THE CONTRACTOR SHALL PROVIDE SEISMIC SUPPORT AND BRACING FOR ALL ELECTRICAL EQUIPMENT AS REQUIRED BY LOCAL AND NATIONAL CODE.
- THE CONTRACTOR SHALL FOLLOW THE PANELBOARD SCHEDULES AS INDICATED IN THE DRAWINGS. EACH CIRCUIT BREAKER HAS BEEN ASSIGNED A SPECIFIC AREA OF THE BUILDING. NO DEVIATION WILL BE ALLOWED WITHOUT THE APPROVAL FROM THE ELECTRICAL ENGINEER.
- THE CONTRACTOR SHALL INSTALL PROPER WIRE SIZE AS CALLED OUT ON THE PANELBOARD SCHEDULES. HOWEVER, THE CONTRACTOR IS RESPONSIBLE TO ENSURE THE WIRE IS LARGE ENOUGH FOR VOLTAGE DROP.
- THE CONTRACTOR SHALL VERIFY ALL MECHANICAL OVERPROTECTION DEVICES FOR THE ACTUAL MECHANICAL EQUIPMENT SUPPLIED ON THE JOB, PRIOR TO RELEASE OF ANY ELECTRICAL DISTRIBUTION EQUIPMENT. CONTACT THE ELECTRICAL ENGINEER WITH ANY DISCREPANCIES.
- THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING THE BID, AND SHALL EXAMINE ALL PHYSICAL CONDITIONS WHICH MAY BE MATERIAL TO THE PERFORMANCE OF HIS WORK. NO EXTRA PAYMENTS WILL BE ALLOWED TO THE CONTRACTOR AS A RESULT OF EXTRA WORK MADE NECESSARY BY HIS FAILURE TO DO SO. ANY CASE OF DISCREPANCY OR LACK OF CLARITY SHALL BE PROMPTLY IDENTIFIED TO THE OWNER'S REPRESENTATIVE AND THE ENGINEER FOR CLARIFICATION.

GEAR AND CONTROL SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
	MANUAL STARTER WITH THERMAL OVERLOAD(S)	AT EQUIPMENT	
	ELECTRIC MOTOR		
	NON-FUSED DISCONNECT SWITCH	+60"	
	FUSED DISCONNECT SWITCH	+60"	
	CIRCUIT BREAKER AND ENCLOSURE	+60"	
	MAGNETIC STARTER	+60"	
	COMBINATION MAGNETIC STARTER / NON-FUSED DISCONNECT	+60"	
	COMBINATION MAGNETIC STARTER / FUSED DISCONNECT	+60"	
	COMB. MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR (MCP)	+60"	
	COMB. VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROTECTOR (MCP)	FLOOR OR WALL AS SPECIFIED	TOP AT +12" IF WALL MOUNTED
	REDUCED VOLTAGE STARTER	FLOOR OR WALL AS SPECIFIED	TOP AT +12" IF WALL MOUNTED
	LOAD CENTER (SURFACE-MOUNTED)	TOP AT +12"	14"W X 3"D
	LOAD CENTER (FLUSH-MOUNTED)	TOP AT +12"	14"W X 3"D
	LIGHTING AND APPLIANCE PANELBOARD (SURFACE-MOUNTED)	TOP AT +12"	20"W X 6"D
	LIGHTING AND APPLIANCE PANELBOARD (FLUSH-MOUNTED)	TOP AT +12"	20"W X 6"D
	POWER DISTRIBUTION PANELBOARD	WALL	THESE SYMBOLS ARE GENERAL IN NATURE AND MAY VARY IN SIZE AND SHAPE TO SUIT APPLICATION. CROSS HATCHING INDICATES "MAIN PANELBOARD OR SWITCHBOARD" NAME IS INDICATED IN SEMI-QUOTES (I.E. L2A, MDP)
	SWITCHBOARD	FLOOR	
	METER BASE	TOP AT +12"	
	OPEN - STOP - CLOSE SWITCH	+60"	FURNISH SWITCH UNLESS FURNISHED BY ANOTHER DIVISION. INSTALL AND CONNECT COMPLETE. REFER TO RELATED SPECIFICATION SECTIONS.
	HVAC THERMOSTAT	+60"	PROVIDED BY DIVISION 15000 U.N.O.
	HAND - OFF - AUTO SWITCH	+60"	
	GROUND FAULT PROTECTION		

LIGHTING SYMBOLS

- LIGHT FIXTURE SYMBOLS ARE GENERAL IN NATURE AND MAY BE SHOWN ON THE DRAWINGS IN VARIOUS SIZES AND SHAPES. REFER TO THE LIGHT FIXTURE SCHEDULE FOR SPECIFICATION INFORMATION.
- ARROWS INDICATE AIMING DIRECTION.

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
	ARIST-MOUNTED SINGLE-HEAD LIGHT FIXTURE AND POLE	AS SPECIFIED OR DETAILED	
	ARIST-MOUNTED DOUBLE-HEAD LIGHT FIXTURE AND POLE	AS SPECIFIED OR DETAILED	
	POST-TOP SINGLE-HEAD, LIGHT FIXTURE AND POLE	AS SPECIFIED OR DETAILED	
	WALL-MOUNTED FIXTURE	AS SPECIFIED OR DETAILED	REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHT
	LIGHT BOLLARD	AS SPECIFIED OR DETAILED	
	FLOOD LIGHT	AS SPECIFIED OR DETAILED	
	RECESSED WALL FIXTURE OR STEP LIGHT	AS SPECIFIED OR DETAILED	REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHT
	FLUORESCENT LIGHT FIXTURES	AS SPECIFIED OR DETAILED	
	PARABOLIC - LOUVERED LIGHT FIXTURES	AS SPECIFIED OR DETAILED	
	WALL-MOUNTED LINEAR FLUORESCENT LIGHT FIXTURE	AS SPECIFIED OR DETAILED	
	FLUORESCENT LINEAR WALL WASHER	AS SPECIFIED OR DETAILED	
	RECESSED DOWN LIGHT	AS SPECIFIED OR DETAILED	
	RECESSED WALL-WASHER OR DIRECTIONAL DOWNLIGHT	AS SPECIFIED OR DETAILED	IF SHOWN, ARROW INDICATES AIMING DIRECTION
	SURFACE OR PENDANT-MOUNTED LIGHT FIXTURE	AS SPECIFIED OR DETAILED	
	WALL-MOUNTED LIGHT FIXTURE	AS SPECIFIED OR DETAILED	REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHT
	TRACK OR MONO-POINT LIGHT FIXTURE	AS SPECIFIED OR DETAILED	IF SHOWN, ARROW INDICATES AIMING DIRECTION
	WALL SCONCE	AS SPECIFIED OR DETAILED	
	FLUORESCENT EGRESS LIGHT FIXTURE	AS SPECIFIED OR DETAILED	THIS IS AN EXAMPLE OF AN EGRESS LIGHT FIXTURE. EGRESS LIGHT FIXTURES ARE HALF-SHADED DIAGONALLY.
	FLUORESCENT EMERGENCY (NON-EGRESS) LIGHT FIXTURE	AS SPECIFIED OR DETAILED	THIS IS AN EXAMPLE OF AN EMERGENCY (NON-EGRESS) LIGHT FIXTURE. EMERGENCY FIXTURES ARE FULLY-SHADED.
	CEILING MOUNTED EXIT SIGN	CEILING	
	WALL-MOUNTED EXIT SIGN	WALL ABOVE DOOR	DARKENED PORTION OF SIGN INDICATES FACE(S); ARROWS/INDICATE CHEVRON DIRECTION(S)
	WALL-MOUNTED EXIT SIGN W/ EMERGENCY LIGHT FIXTURE	WALL ABOVE DOOR	
	TIME CLOCK		
	EMERGENCY LIGHT FIXTURE	AS NOTED	
	ELECTRIC PHOTOCCELL	N/A	MOUNT ON ROOF FACING NORTH SKY
	LIGHT FIXTURE CALLOUT (LETTER DENOTES FIXTURE TYPE)		

WIRING DEVICE SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
	SINGLE-POLE TOGGLE SWITCH	+48"	
	SINGLE-POLE TOGGLE SWITCH	+48"	SUBSCRIPT KEYS SWITCH TO FIXTURES CONTROLLED.
	DOUBLE-POLE TOGGLE SWITCH	+48"	
	THREE-WAY TOGGLE SWITCH	+48"	
	FOUR-WAY TOGGLE SWITCH	+48"	
	KEY-OPERATED SINGLE-POLE TOGGLE SWITCH	+48"	
	SINGLE-POLE TOGGLE SWITCH WITH PILOT LIGHT	+48"	
	DIMMER SWITCH	+48"	RATE DIMMER SWITCH FOR MAXIMUM POSSIBLE WATTAGE
	TIMER SWITCH	+48"	
	(2) SINGLE-POLE TOGGLE SWITCH	+48"	DUAL LEVEL SWITCH OUTBOARD LAMPS SEPARATELY FROM INBOARD LAMPS.
	LOW VOLTAGE MOMENTARY CONTACT SWITCH	+48"	
	3-POSITION MOMENTARY CONTACT SWITCH	+48"	REFER TO DETAIL UP-ON, CENTER-NEUTRAL, DOWN-OFF
	3-POSITION MAINTAINED CONTACT SWITCH	+48"	UP-ON, CENTER-OFF, DOWN-ON
	OCCUPANCY SENSOR	AS NOTED	CEILING MOUNTED WITH SUBSCRIPT 'C'; WALL-MOUNTED WITH SUBSCRIPT 'W'
	SPLIT-WIRED DUPLEX RECEPTACLE	+18"	
	SINGLE RECEPTACLE	+18"	
	DUPLEX RECEPTACLE	+18"	
	FOURPLEX RECEPTACLE	+18"	
	125/250V RECEPTACLE	+18"	RANGE -- NEMA 14-50R DRYER -- NEMA 14-30R
	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE	+18"	
	GROUND FAULT CIRCUIT INTERRUPTER FOURPLEX RECEPTACLE	+18"	
	EMERGENCY DUPLEX RECEPTACLE	+18"	
	EMERGENCY FOURPLEX RECEPTACLE	+18"	
	MULTI-OUTLET ASSEMBLY	4" ABOVE BACKSPLASH	
	POWER / TELEPHONE POLE	FLOOR/CEILING	
	CORD DROP WITH DUPLEX RECEPTACLE	+18"	REFER TO DETAIL
	SPECIAL PURPOSE OUTLET	+18"	SUBSCRIPT IN PARENTHESIS INDICATES NEMA CONFIGURATION IF SHOWN. REFER TO DRAWINGS AND/OR EQUIPMENT SCHEDULES. CONFIRM EXACT CONFIGURATION WITH OWNER PRIOR TO INSTALLATION.

FIRE ALARM SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
	BEAM DETECTOR - TRANSMITTER	4" BELOW CEILING TO TOP OF DETECTOR	
	BEAM DETECTOR - RECEIVER	4" BELOW CEILING TO TOP OF DETECTOR	
	END OF LINE DEVICE	PER MANUFACTURER RECOMMENDATIONS	
	TAMPER SWITCH	AT VALVE	
	WATER FLOW INDICATOR	ON FIRE RISER	
	FIRE/SMOKE DAMPER	TOP AT 12"	
	HEAT DETECTOR	CEILING	
	SMOKE DETECTOR	CEILING	
	DUCT SMOKE DETECTOR	SIDE OF DUCT	
	FIRE ALARM MANUAL STATION	+48"	
	CONTROL MODULE	AT DEVICE(S) TO BE CONTROLLED	
	MONITOR MODULE	AT DEVICE(S) TO MONITOR	
	FAN SHUTDOWN RELAY	AT FAN CONTROL PANEL	
	MAGNETIC DOOR HOLDER	COORDINATE WITH DOOR INSTALLER	COORDINATE WITH DOOR INSTALLER; SUBSCRIPT 'F' INDICATES TO MOUNT AT FLOOR LEVEL
	WATER FLOOD INDICATOR	FLOOR	
	AUDIO HORN		
	MINI AUDIO HORN		
	FIRE ALARM VISUAL STROBE	MOUNT AT LESSOR OF EITHER 80" AFF OR 6" BELOW CEILING.	SUBSCRIPT 'W' INDICATES THAT A WEATHER PROOF BACK BOX IS REQ. SUBSCRIPT 'C' INDICATES CEILING MOUNTING.
	FIRE ALARM AUDIO/VISUAL HORN/STROBE		
	MINI AUDIO/VISUAL HORN/STROBE		
	FIRE ALARM AUDIO SPEAKER		NUMERIC SUBSCRIPT INDICATES CANDELLA RATING OF STROBE (I.E. - 15, 15, 10)
	FIRE ALARM AUDIO/VISUAL SPEAKER/STROBE		
	FIRE FIGHTERS TELEPHONE JACK	+48"	
	FIRE PROTECTION SPRINKLER RISER BELL	+40"	FURNISHED BY FIRE PROTECTION CONTRACTOR AND INSTALLED AND CONNECTED BY DIV. 16000

NURSE CALL SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
	PATIENT STATION	+48"	
	EMERGENCY PULL STATION	+48"	
	CODE BLUE STATION	+48"	
	DOUBLE PATIENT STATION	+48"	
	STAFF STATION	+48"	
	DUTY STATION	+48"	
	DOME LIGHT	6" ABOVE DOOR	SUBSCRIPT 'C' INDICATES CEILING MOUNTED
	MASTER STATION CONSOLE	DESK	

TELEPHONE / DATA SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
	TELEPHONE OUTLET	+18"	
	DATA OUTLET	+18"	
	COMBINATION TELEPHONE/DATA OUTLET	+18"	

ELECTRICAL SYMBOL SCHEDULE GENERAL NOTES

- MOUNT ALL OUTLETS, DEVICES, AND EQUIPMENT AT HEIGHTS INDICATED BELOW, UNLESS NOTED OTHERWISE ON THE DRAWINGS. UNLESS NOTED OTHERWISE, HEIGHTS ARE GIVEN FROM FINISHED FLOOR TO CENTER OF OUTLET BOX.
- WHERE OUTLETS, DEVICES, AND EQUIPMENT ARE NOTED BY SUBSCRIPTS, REFER TO ABBREVIATION SCHEDULE FOR DEFINED REQUIREMENTS.
- WHERE OUTLETS, DEVICES AND EQUIPMENT ARE NOTED BY THE SUBSCRIPT 'A', MOUNT AT 4" ABOVE COUNTER. IF COUNTER HAS A BACK SPLASH, MOUNT AT 4" ABOVE BACK SPLASH. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS AND COORDINATE WITH CASEWORK SUPPLIER.
- NOT ALL ELECTRICAL SYMBOLS MAY BE USED.

GENERAL SYMBOLS

SYMBOL	DESCRIPTION	REMARKS
	KEYED NOTE	
	DETAIL REFERENCE	TOP NUMBER INDICATES DETAIL NUMBER; BOTTOM LETTER-NUMBER INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN; WHERE NOT SPECIFICALLY REFERENCED, DETAIL IS GENERAL IN NATURE AND SHALL APPLY WHERE APPLICABLE.
	ELEVATION REFERENCE	TOP NUMBER INDICATES ELEVATION NUMBER; BOTTOM LETTER-NUMBER INDICATES WHERE ELEVATION IS SHOWN.
	SECTION REFERENCE	TOP NUMBER INDICATES SECTION NUMBER; BOTTOM LETTER NUMBER INDICATES WHERE SECTION IS SHOWN.
	ARCHITECTURAL ROOM NUMBER	
	EQUIPMENT NAME / NUMBER	TOP NUMBER ABBREVIATES EQUIPMENT NAME OR TYPE; BOTTOM NUMBER INDICATES EQUIPMENT NUMBER. REFER TO EQUIPMENT SCHEDULE.
	REVISION NUMBER	USED TO DENOTE CHANGES EITHER ISSUED BY ADDENDUM OR DURING CONSTRUCTION AND TO DENOTE RECORD DRAWING CHANGES.
	BREAKLINE	USED TO BREAK DRAWINGS.

BRANCH CIRCUITING SYMBOLS

SYMBOL	DESCRIPTION	REMARKS
	1 CIRCUIT, 2 WIRE BRANCH CIRCUIT HOME RUN TO PANEL	ARROWS: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS REQUIRED.
	2 CIRCUIT, 3 WIRE BRANCH CIRCUIT HOME RUN TO PANEL	SHORT CROSS LINES: NUMBER OF SHORT CROSS LINES INDICATES NUMBER OF PHASE TRAVELER, AND/OR SWITCHED CONDUCTORS REQUIRED IF GREATER THAN 1 (ONE).
	3 CIRCUIT, 4 WIRE BRANCH CIRCUIT HOME RUN TO PANEL	LONG CROSS LINES: NUMBER OF LONG CROSS LINES INDICATES NUMBER OF NEUTRAL CONDUCTORS REQUIRED FOR MULTI-WIRE HOME RUNS.
	MULTIPLE WIRE BRANCH CIRCUITING BETWEEN FIXTURES, SWITCHES, DEVICES, ETC.	EQUIPMENT GROUND AND ISOLATED GROUND CONDUCTORS: EQUIPMENT GROUND AND ISOLATED GROUND CONDUCTORS ARE NOT SHOWN, BUT ARE REQUIRED AS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS.
	BRANCH CIRCUITING (U.N.O.) TURNED UP OR TOWARDS OBSERVER.	
	BRANCH CIRCUITING (U.N.O.) TURNED DOWN OR AWAY FROM OBSERVER.	
	BRANCH CIRCUITING (U.N.O.) CONTINUATION	
	CONDUIT STUB-IN	CAP AND MARK.
	INCOMING SERVICE	
	JUNCTION BOX	MOUNT AS NOTED. SUBSCRIPT 'F' INDICATES TO PROVIDE A FLOOR BOX WITH BLANK COVERPLATE.

ABBREVIATION SCHEDULE

NOTE: NOT ALL ABBREVIATIONS MAY BE USED.

A	ABOVE COUNTER	ISO	ISOLATED
A	AMP OR AMPS	KVA	KILO VOLT AMPERES
ADJ	ADJACENT	KW	KILOWATTS
AFF	ABOVE FINISHED FLOOR	LFMC	LIQUID-TIGHT METAL CONDUIT
AHJ	AUTHORITY HAVING JURISDICTION	LFNC	LIQUID-TIGHT NONMETAL CONDUIT
AL	ALUMINUM	NCA	NON-FRUITING CIRCUIT AMPS
C	CONDUIT	PLO	MAIN LUGS ONLY
CB	CIRCUIT BREAKER	N.C.	NORMALLY CLOSED
CKT	CIRCUIT	N.I.C.	NOT IN CONTRACT
C.O.'S	CONVENIENCE OUTLETS	N.L.	NIGHT LIGHT
CU	COPPER	N.O.	NORMALLY OPEN
EA	EACH	O.C.	ON CENTER(S)
ELEC	ELECTRICAL	OCF	OVER CURRENT PROTECTION
ENT	EMERGENCY	QTY	QUANTITY
EHT	ELECTRIC METALLIC TUBING	R	REMOVE
ENT	ELECTRIC NONMETALLIC TUBING	REQ.	REQUIREMENTS
EQUIP	EQUIPMENT	RMC	RIGID METAL CONDUIT
EWC	ELECTRIC WATER COOLER	RNC	RIGID NONMETALLIC CONDUIT
E, EX	EXISTING	RR	REMOVE AND RELOCATE
EXP	EXPLOSION PROOF	SS	SURGE SUPPRESSION
FA	FIRE ALARM	SCP	SECURITY CONTROL PANEL
FACP	FIRE ALARM CONTROL PANEL	TR	TAMPER RESISTANT
FLA	FULL LOAD AMPS	TYP	TYPICAL
FMC	FLEXIBLE METAL CONDUIT	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
FOB	FREIGHT ON BOARD	UF	UNDER FLOOR
GND	GROUND CONDUCTOR	UG	UNDERGROUND
HQA	HAND-OFF-AUTO	U.N.O.	UNLESS NOTED OTHERWISE
HP	HORSE POWER	W	WITH
IG	ISOLATED GROUND	WP	WEATHER PROOF
IMC	INTERMEDIATE METAL CONDUIT	XFR	TRANSFORMER
INS	INSULATED		



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MONUMENT VALLEY HEALTH CLINIC
MONUMENT VALLEY, UTAH

STATE OF UTAH/UTAH NAVAJO HEALTH SYSTEMS
OWNER

MARK	DATE	DESCRIPTION
	01-06-05	

PROJECT NUMBER: 2005-25
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SHEET TITLE
SYMBOLS AND NOTES

E101

OF

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MONUMENT VALLEY HEALTH CLINIC
MONUMENT VALLEY, UTAH

OWNER
STATE OF UTAH/ UTAH NAVAJO HEALTH SYSTEMS

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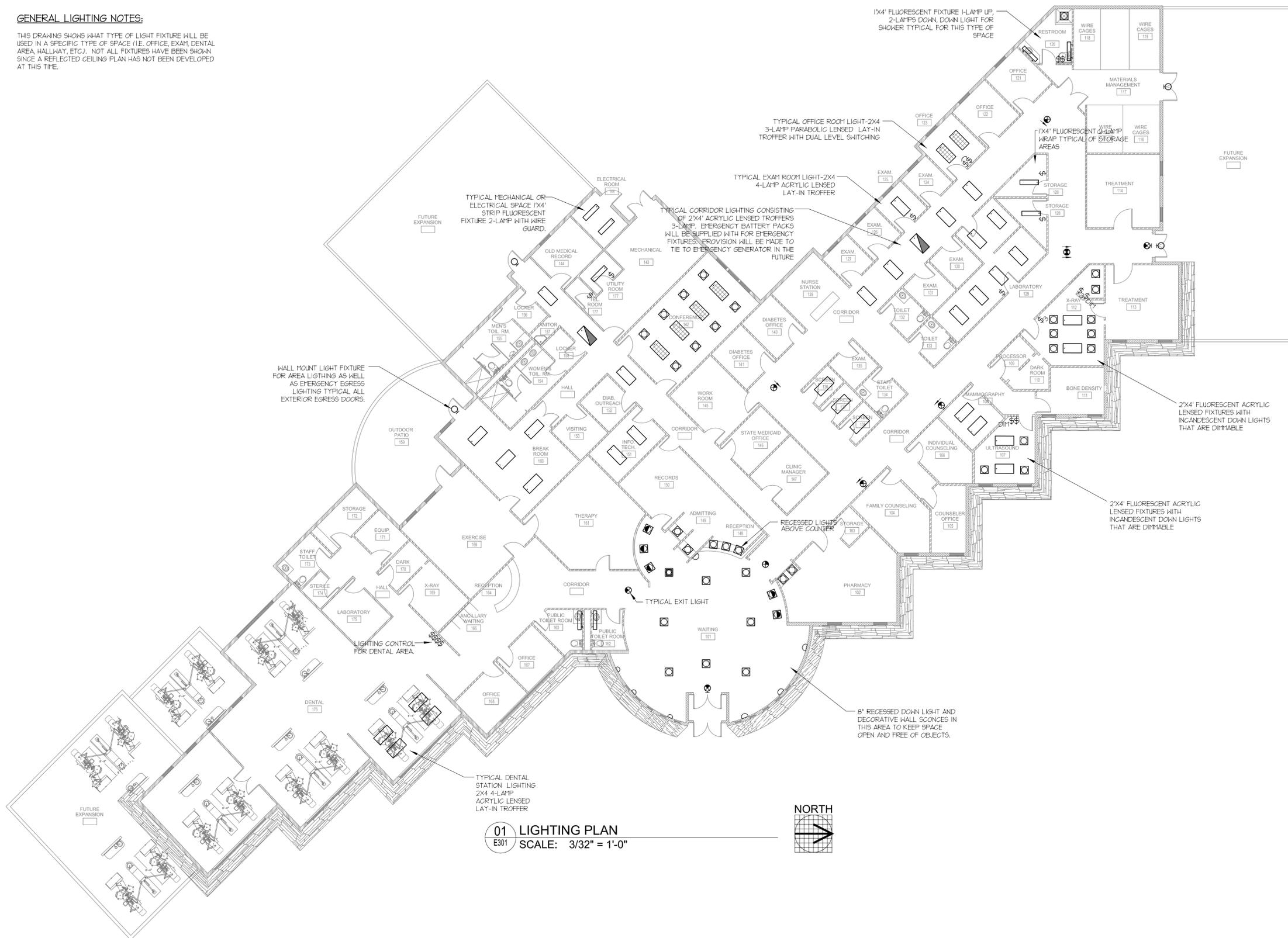
SHEET TITLE
LIGHTING PLAN

E301

OF

GENERAL LIGHTING NOTES:

THIS DRAWING SHOWS WHAT TYPE OF LIGHT FIXTURE WILL BE USED IN A SPECIFIC TYPE OF SPACE (I.E. OFFICE, EXAM, DENTAL AREA, HALLWAY, ETC.). NOT ALL FIXTURES HAVE BEEN SHOWN SINCE A REFLECTED CEILING PLAN HAS NOT BEEN DEVELOPED AT THIS TIME.



01 LIGHTING PLAN
E301 SCALE: 3/32" = 1'-0"



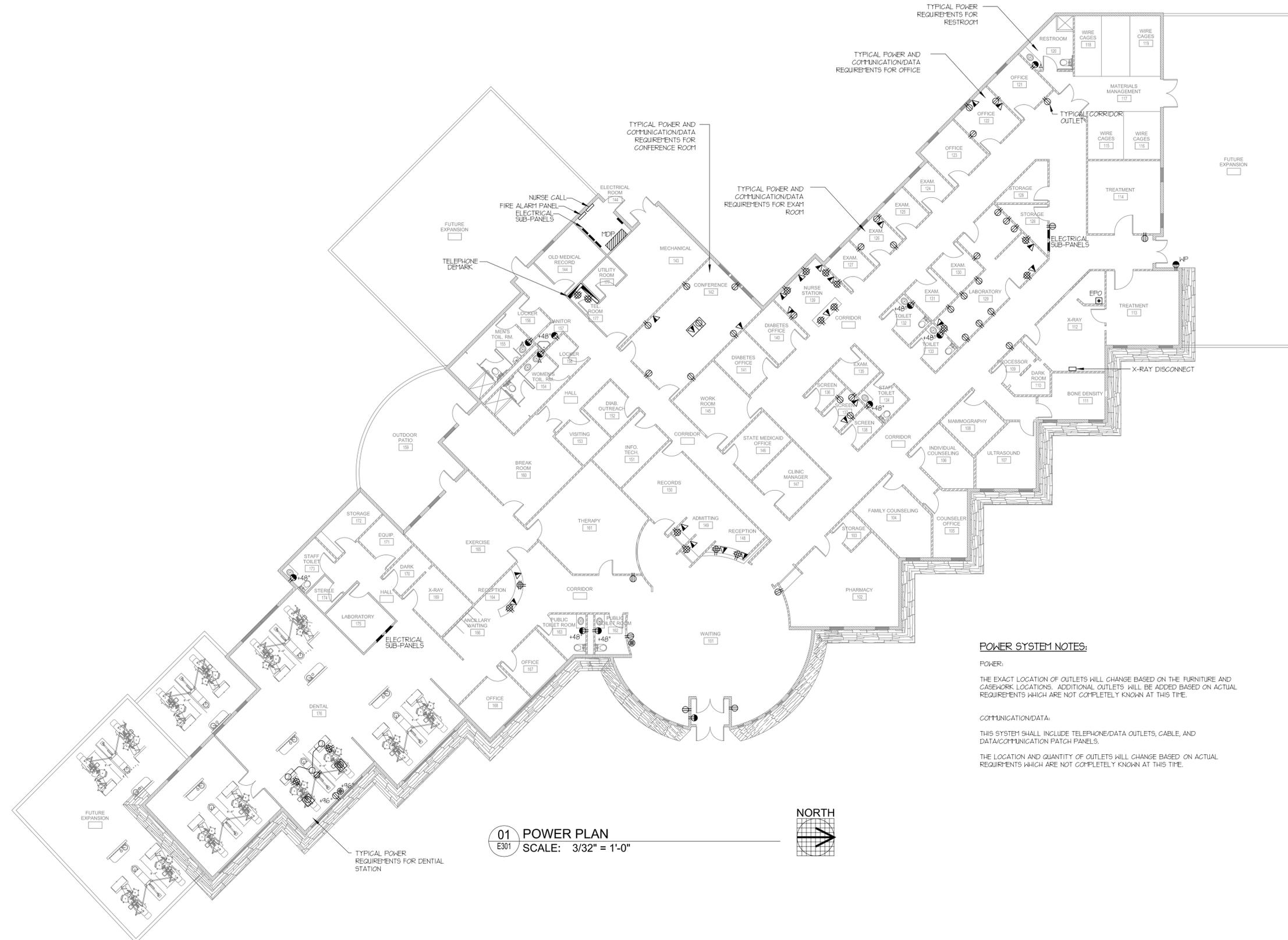
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MONUMENT VALLEY HEALTH CLINIC
MONUMENT VALLEY, UTAH

OWNER
STATE OF UTAH/ UTAH NAVAJO HEALTH SYSTEMS



POWER SYSTEM NOTES:

POWER:
THE EXACT LOCATION OF OUTLETS WILL CHANGE BASED ON THE FURNITURE AND CASEWORK LOCATIONS. ADDITIONAL OUTLETS WILL BE ADDED BASED ON ACTUAL REQUIREMENTS WHICH ARE NOT COMPLETELY KNOWN AT THIS TIME.

COMMUNICATION/DATA:
THIS SYSTEM SHALL INCLUDE TELEPHONE/DATA OUTLETS, CABLE, AND DATA/COMMUNICATION PATCH PANELS.
THE LOCATION AND QUANTITY OF OUTLETS WILL CHANGE BASED ON ACTUAL REQUIREMENTS WHICH ARE NOT COMPLETELY KNOWN AT THIS TIME.

01 POWER PLAN
E301 SCALE: 3/32" = 1'-0"



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	01-06-05	

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SHEET TITLE
POWER PLAN

E401
OF

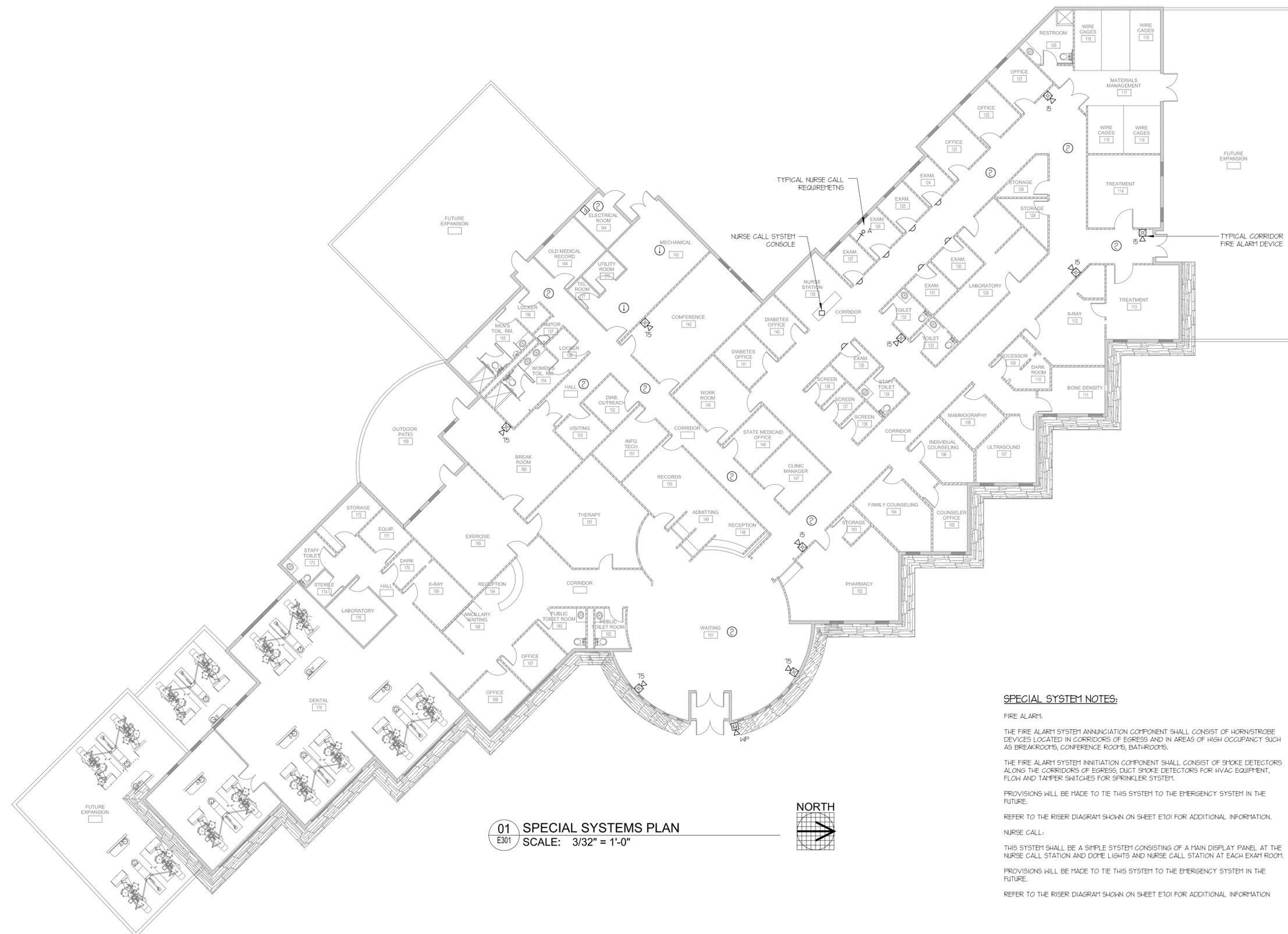
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MONUMENT VALLEY HEALTH CLINIC
MONUMENT VALLEY, UTAH

OWNER
STATE OF UTAH/ UTAH NAVAJO HEALTH SYSTEMS



01 SPECIAL SYSTEMS PLAN
SCALE: 3/32" = 1'-0"



SPECIAL SYSTEM NOTES:

FIRE ALARM:
THE FIRE ALARM SYSTEM ANNUNCIATION COMPONENT SHALL CONSIST OF HORN/STROBE DEVICES LOCATED IN CORRIDORS OF EGRESS AND IN AREAS OF HIGH OCCUPANCY SUCH AS BREAK ROOMS, CONFERENCE ROOMS, BATHROOMS.
THE FIRE ALARM SYSTEM INITIATION COMPONENT SHALL CONSIST OF SMOKE DETECTORS ALONG THE CORRIDORS OF EGRESS, DUCT SMOKE DETECTORS FOR HVAC EQUIPMENT, FLOW AND TAMPER SWITCHES FOR SPRINKLER SYSTEM.
PROVISIONS WILL BE MADE TO TIE THIS SYSTEM TO THE EMERGENCY SYSTEM IN THE FUTURE.
REFER TO THE RISER DIAGRAM SHOWN ON SHEET E101 FOR ADDITIONAL INFORMATION.

NURSE CALL:
THIS SYSTEM SHALL BE A SIMPLE SYSTEM CONSISTING OF A MAIN DISPLAY PANEL AT THE NURSE CALL STATION AND DOME LIGHTS AND NURSE CALL STATION AT EACH EXAM ROOM.
PROVISIONS WILL BE MADE TO TIE THIS SYSTEM TO THE EMERGENCY SYSTEM IN THE FUTURE.
REFER TO THE RISER DIAGRAM SHOWN ON SHEET E101 FOR ADDITIONAL INFORMATION.

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SPECIAL SYSTEMS PLAN

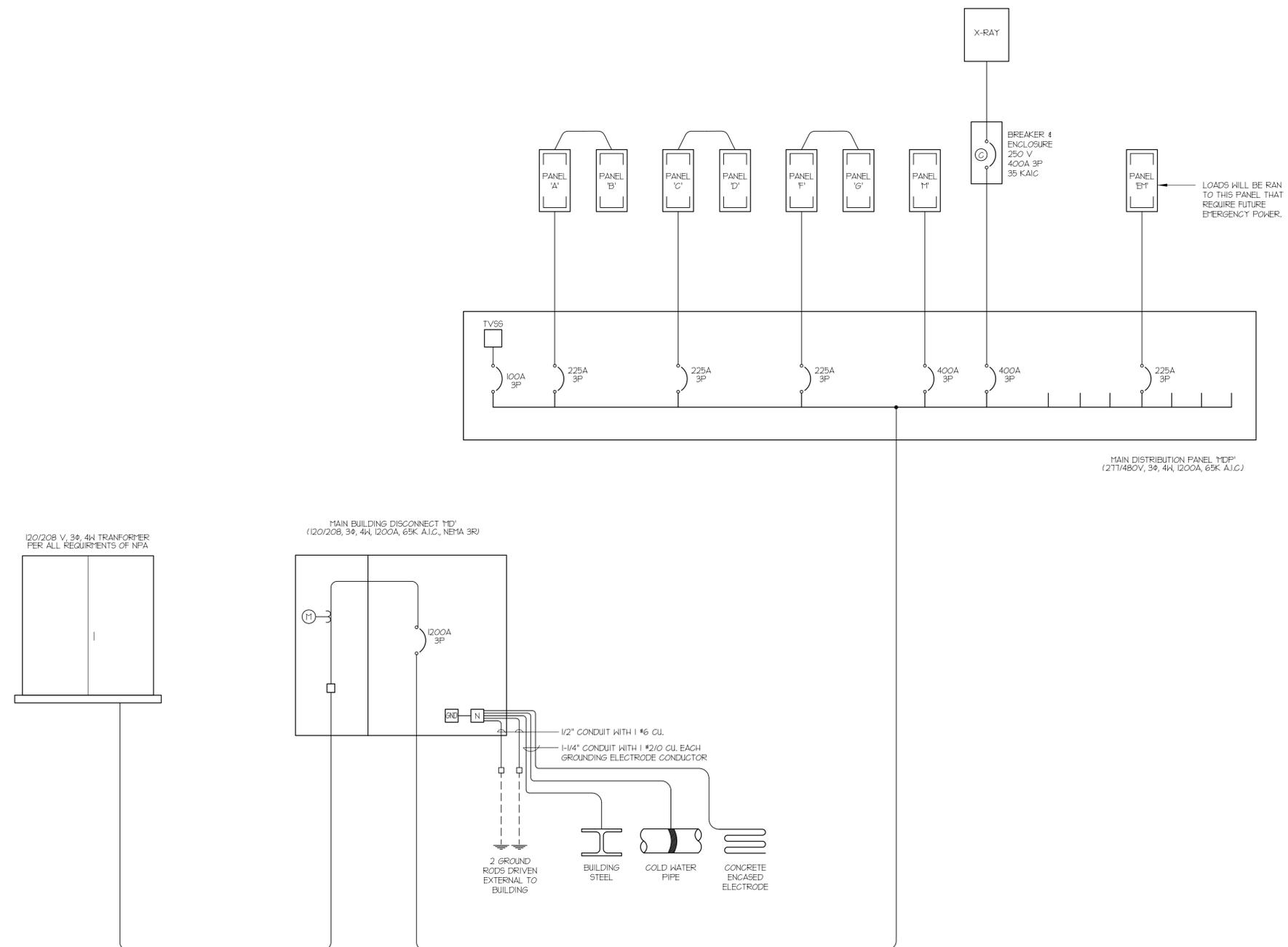
E501
OF

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MONUMENT VALLEY HEALTH CLINIC
 MONUMENT VALLEY, UTAH

OWNER
STATE OF UTAH/ UTAH NAVAJO HEALTH SYSTEMS



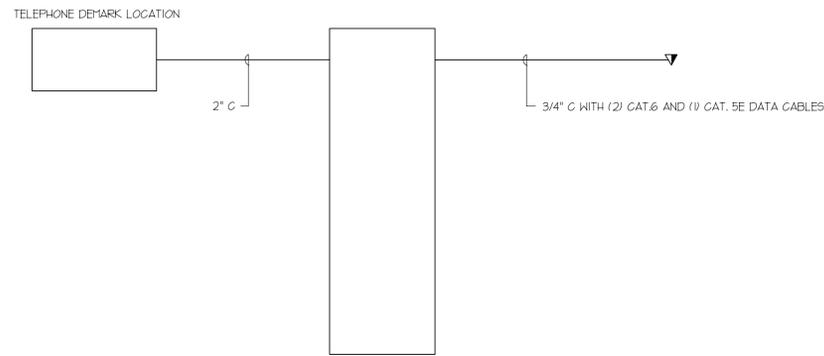
ONE-LINE DIAGRAM
 SCALE: NONE

MARK	DATE	DESCRIPTION
	01-06-05	

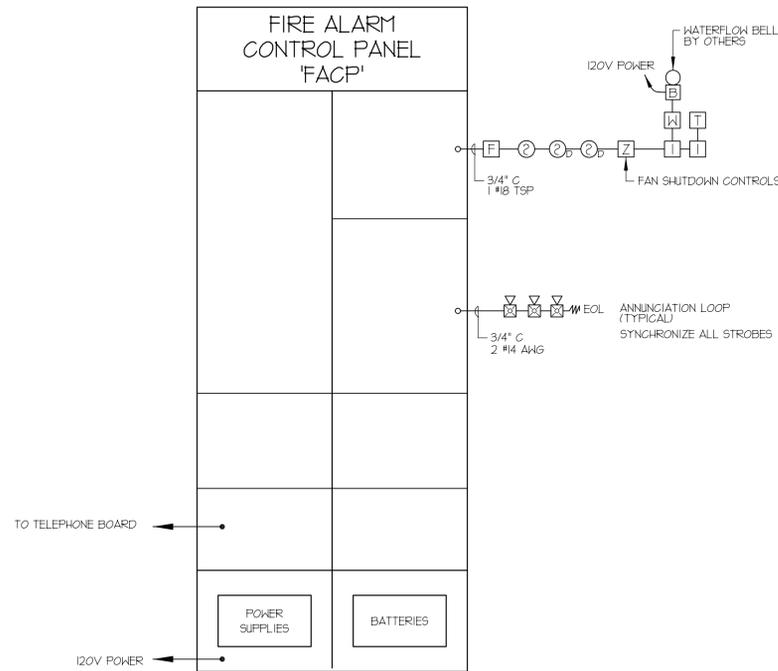
PROJECT NUMBER: 2005-25
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 DRAWN BY: SDK
 CHECKED BY: DPW
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SHEET TITLE
ONE-LINE DIAGRAM

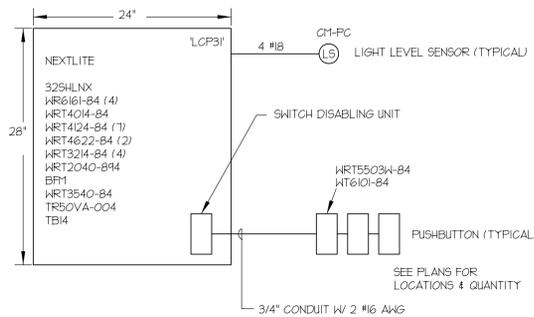
E601
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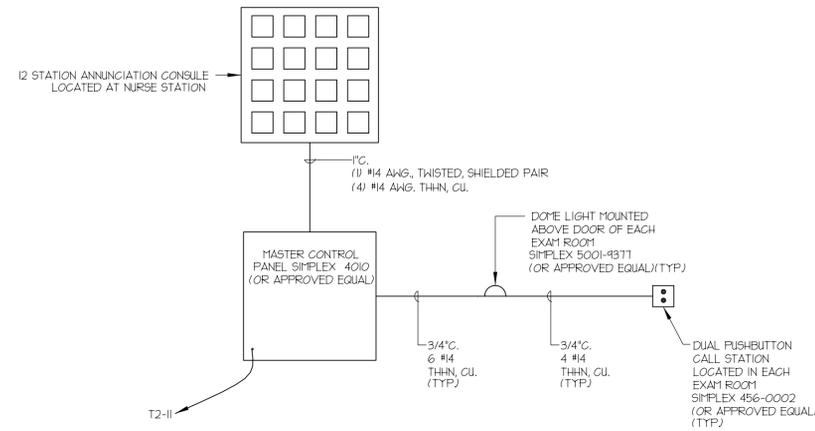
3 COMMUNICATION/DATA SYSTEM RISER DIAGRAM
SCALE: NONE
E701



1 FIRE ALARM SYSTEM RISER DIAGRAM
SCALE: NONE
E701



4 LIGHTING CONTROL SYSTEM DIAGRAM
SCALE: NONE
E701



2 NURSE CALL SYSTEM RISER DIAGRAM
SCALE: NONE
E701

FIRE ALARM SYSTEM NOTES:

1. PROVIDE ANALOG ADDRESSABLE NETWORK FIRE ALARM SYSTEM.
2. CONFIRM ALL WIRING REQUIREMENTS WITH FIRE ALARM SYSTEM SUPPLIER AND PROVIDE IN ACCORDANCE THEREWITH.
3. THE SYSTEM SHALL BE PROGRAMMED SO THAT IF ANY INITIATION DEVICE IS ACTUATED, AN ALARM SIGNAL WHICH IS AUDIBLE THROUGHOUT THE BUILDING WILL BE ACTIVATED.
4. WIRING SHALL BE CONTINUOUS FROM ONE DEVICE TO ANOTHER. NO SPLICING IS ALLOWED.
5. PROVIDE FIRE ALARM MAP OF THE BUILDING SHOWING ALL FIRE ALARM SYSTEM DEVICES.
6. ALL FIRE ALARM CABLING SHALL BE RAN IN CONDUIT. MINIMUM CONDUIT SIZE SHALL BE 3/4". CONTRACTOR SHALL SPRAY PAINT ALL JUNCTION BOXES ASSOCIATED WITH THE FIRE ALARM SYSTEM "FIRE ENGINE RED".
7. THE FIRE ALARM SYSTEM SUPPLIER SHALL PROVIDE A COMPUTER DRAFTED PLAN OF THE FIRE ALARM SYSTEM USING FLOOR PLANS PROVIDED BY THE ENGINEER. COMPLETE RISER & WIRING DIAGRAMS SHALL BE INCLUDED.
8. ALL NOTIFICATION DEVICE CIRCUIT VOLTAGE DROP CALCULATIONS SHALL BE DONE IN COMPLIANCE WITH NFPA 12 2002 SECTION 4.4.4). THE FIRE ALARM SYSTEM SUPPLIER TO DETERMINE THE AMOUNT NOTIFICATION DEVICE CIRCUITS THAT ARE REQUIRED BASED ON THE NUMBER OF NOTIFICATION DEVICES SHOWN ON THE DRAWINGS.
9. THE FIRE ALARM SYSTEM SUPPLIER SHALL SUBMIT THE FIRE ALARM INSTALLATION DRAWINGS AND SUBMITTAL TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL PRIOR TO THE ROUGH-IN OF THE SYSTEM.
10. VERIFY AND COMPLY WITH ALL LOCAL AND NATIONAL CODES.
11. FIRE ALARM SYSTEM SUPPLIER TO PROVIDE A COPY OF PROGRAMMING CODES AND OPERATION MANUALS IN A SLEEVED BINDER ATTACHED TO THE FIRE ALARM CONTROL PANEL.
12. PROVIDE CLASS A SYSTEM IN LIEU OF CLASS B IF SO REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION. VERIFY REQUIREMENTS PRIOR TO BID.

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MONUMENT VALLEY HEALTH CLINIC
MONUMENT VALLEY, UTAH

STATE OF UTAH/ UTAH NAVAJO HEALTH SYSTEMS

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RISER DIAGRAMS

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