



## Telephone Equipment Room Specifications

### Telephone Terminal Room Requirements

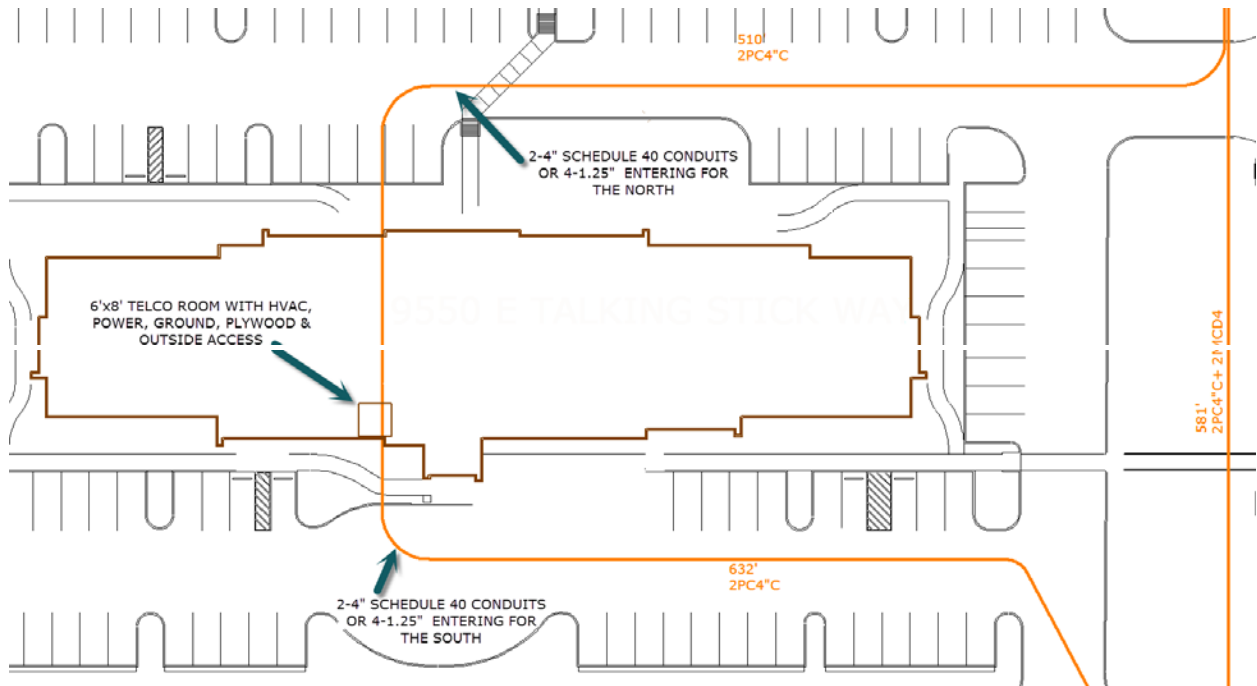
1. A clear 6'x 8' floor space for equipment and work area.
2. Two plywood backboards 4'x 8'x 3/4" securely mounted to the wall.
3. Two duplex 120V 20 AMP outlets extended to plywood backboard as shown on drawing. Each outlet must be on separate breakers.
4. Provide one #6 insulated solid copper wire terminated at the main power service panel ground bus bar. On the other end a ten-foot loop as shown on drawings.
5. Provide HVAC in the equipment room. The room must maintain a temperature less than 80°.
6. Accommodations must be made for technician access to inside terminals. Saddleback Communications will provide a lock box. The customer must provide a key.
7. Two separate conduit entrances of two 4" inch schedule 40 conduits (or four 1 1/4") with mule tape are to be provided by the developer for Saddleback Communications entrance. Each set of two conduits will have 25' of separation and enter the building from different feeds. [See drawing on page 2.](#)
8. A maximum of four three-foot radius 90-degree bends are allowed in each pulling section.
9. [For a typical terminal room configuration see page 3.](#) All terminal rooms are located at the center of the building on the ground floor. This allows for Ethernet service which require a copper loop of less that 300'.

Further information for developers is available at <http://www.saddlebackcomm.com/developers>.

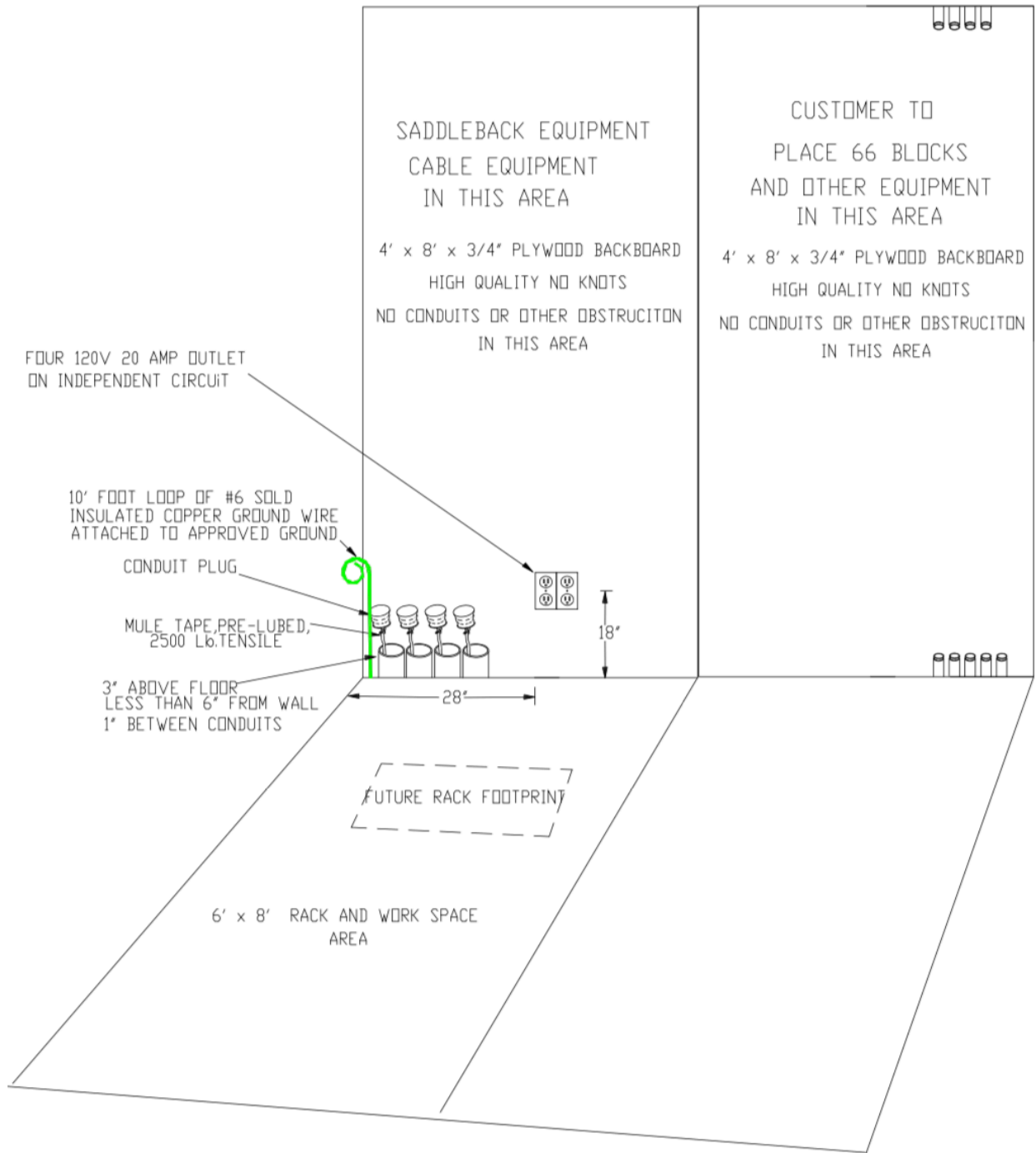
If you need further clarification please contact John Aker, Manager - Outside Plant Engineering, at 480 362-7037 or [jaker@saddlebackcomm.com](mailto:jaker@saddlebackcomm.com).

### Typical Conduit Configuration

Two 4" (or two 1.25") conduits enter from the north and two 4" (or two 1.25") conduits enter from the south. The Telco room is in the center of the building. This allows all classes of services to be delivered to any location within the building as long as structured cable runs are limited to 300 feet. The MPOP room is located on an outside wall with a door that provides 24-hour technician access. Saddleback will provide a lock box for a customer provide key. This enables after hours maintenance to be performed.



# Typical Room Layout



SADDLEBACK EQUIPMENT  
CABLE EQUIPMENT  
IN THIS AREA

4' x 8' x 3/4" PLYWOOD BACKBOARD  
HIGH QUALITY NO KNOTS  
NO CONDUITS OR OTHER OBSTRUCTION  
IN THIS AREA

CUSTOMER TO  
PLACE 66 BLOCKS  
AND OTHER EQUIPMENT  
IN THIS AREA

4' x 8' x 3/4" PLYWOOD BACKBOARD  
HIGH QUALITY NO KNOTS  
NO CONDUITS OR OTHER OBSTRUCTION  
IN THIS AREA

FOUR 120V 20 AMP OUTLET  
ON INDEPENDENT CIRCUIT

10' FOOT LOOP OF #6 SOLID  
INSULATED COPPER GROUND WIRE  
ATTACHED TO APPROVED GROUND

CONDUIT PLUG

MULE TAPE, PRE-LUBED,  
2500 LB. TENSILE

3" ABOVE FLOOR  
LESS THAN 6" FROM WALL  
1" BETWEEN CONDUITS

FUTURE RACK FOOTPRINT

6' x 8' RACK AND WORK SPACE  
AREA

28"

18"

# Typical Room Built Out

