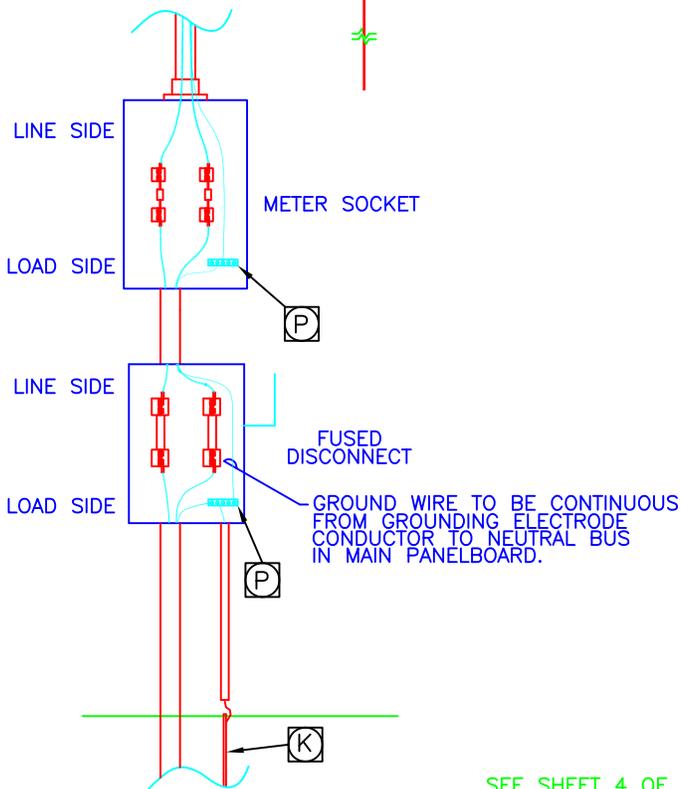
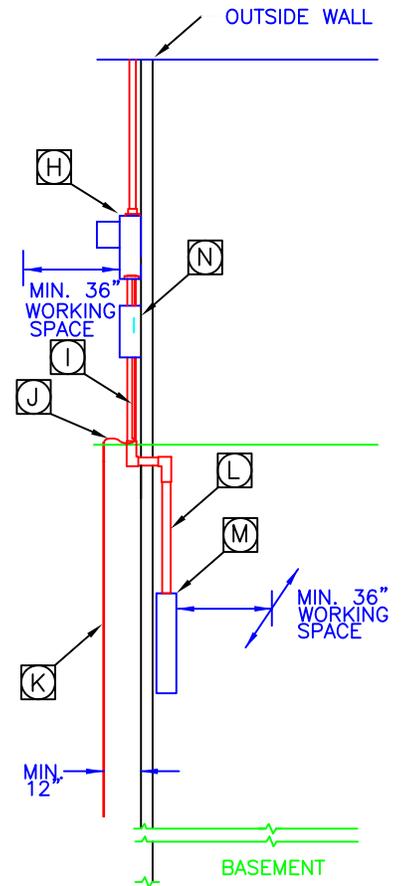
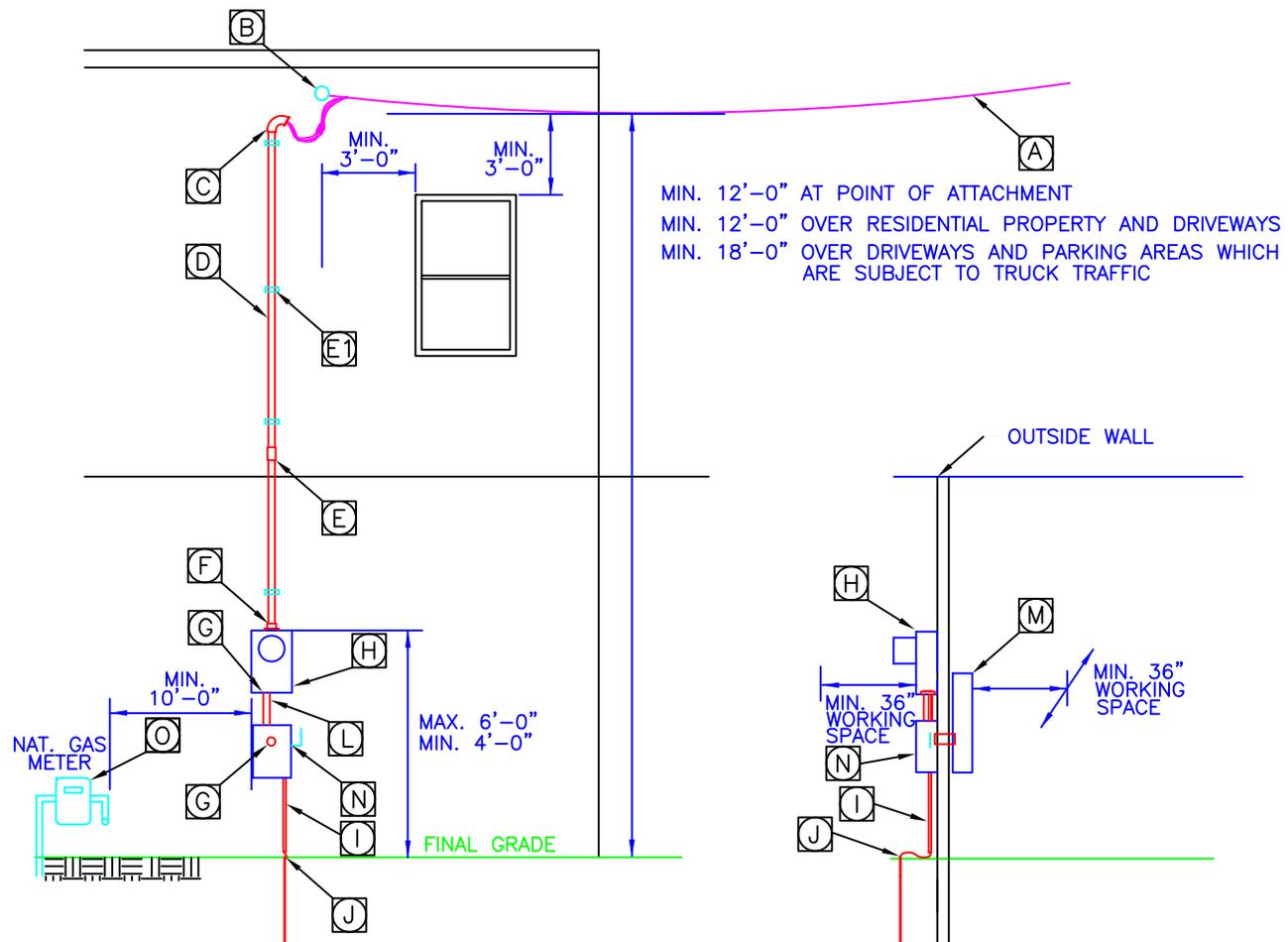


MIN. 12'-0" AT POINT OF ATTACHMENT  
 MIN. 12'-0" OVER RESIDENTIAL PROPERTY AND DRIVEWAYS  
 MIN. 18'-0" OVER DRIVEWAYS AND PARKING AREAS WHICH ARE SUBJECT TO TRUCK TRAFFIC

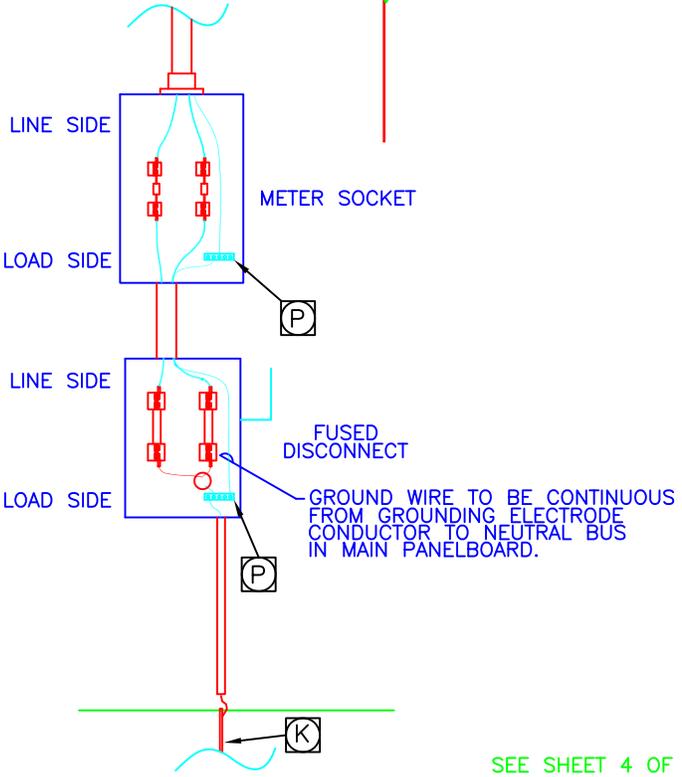


**TYPICAL PANEL INSTALLATION WITH BASEMENT**

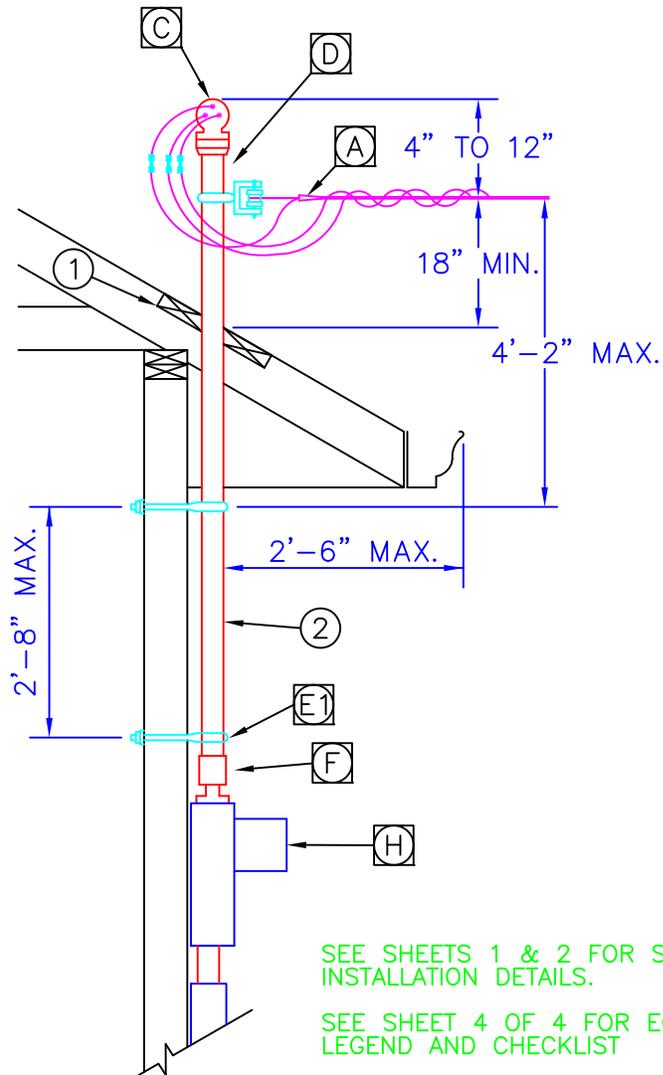
SEE SHEET 4 OF 5 AND SHEET 5 OF 5 FOR EQUIPMENT LEGEND AND CHECKLIST



**TYPICAL PANEL INSTALLATION WITHOUT BASEMENT**



SEE SHEET 4 OF 5 AND SHEET 5 OF 5 FOR EQUIPMENT LEGEND AND CHECKLIST



**TYPICAL SERVICE RISER INSTALLATION THROUGH ROOF**

- ① 2"x4" BLOCKING SOLIDLY INSTALLED BETWEEN RAFTERS.
- ② RIGID STEEL, SCHED. 40 CONDUIT (2" FOR 200 AMPERES, 3" FOR LARGER SERVICE ENTRANCE EQUIPMENT).

**CITY OF MARSHALL  
MUNICIPAL ELECTRIC UTILITY  
NEW AND UPGRADED OVERHEAD  
RESIDENTIAL SERVICE INSTALLATION STANDARD**

**PCSI**  
CONSULTANTS AND ENGINEERS  
1207 REMMINGTON, SUITE B  
SCHAUMBURG, IL 60173

PHONE (847) 884-8251  
FAX (847) 884-8260

STANDARD:

**RES1**

SHEET 3 OF 5

# EQUIPMENT LEGEND AND CHECKLIST

- (A)** ELECTRIC UTILITY SERVICE CONDUCTORS AND DEAD-END CONNECTOR (BY UTILITY)
  
- (B)** HOUSE ATTACHMENT BRACKET (JOSLYN CAT. NO. J7692, OR EQUIVALENT) (2-HOLE ATTACHMENT BRACKET) (BY OWNER)
  
- (C)** WEATHERHEAD SUITABLE FOR RIGID GALVANIZED STEEL CONDUIT
  
- (D)** RIGID GALVANIZED STEEL CONDUIT AND CONDUCTORS  
200 AMP – 2-#3/0 PHASE AND 1-#3/0 NEUTRAL THWN COPPER CONDUCTORS  
IN 2 INCH PIPE (IDENTIFY NEUTRAL WITH WHITE TAPE)  
  
THE USE OF COPPER CONDUCTOR IS REQUIRED FOR ALL SERVICE ENTRANCE INSTALLATIONS.  
SERVICE CONDUIT IS NOT TO BE USED FOR PULL-OFF STRUCTURE WHERE NECESSARY A SEPARATE STRUCTURAL SUPPORT IS TO BE PROVIDED AND FIRMLY ANCHORED TO BUILDING STRUCTURAL MEMBER
  
- (E)** 2" WEATHERPROOF RGS THREADED CONDUIT CONNECTIONS (TYPICAL ALL EXTERNAL FITTINGS)
  
- (E1)** 2-HOLE GALVANIZED CONDUIT STRAPS (TYPICAL EVERY 5 FEET)
  
- (F)** 2" THREADED METER SOCKET HUB CONNECTOR, COMPATIBLE WITH METER SOCKET
  
- (G)** INSULATED RIGID GALVANIZED STEEL BUSHING CONNECTOR
  
- (H)** 200 AMP METER SOCKET BY OWNER (METER BY UTILITY)  
  
200 AMP METER SOCKET – MILBANK CAT. NO. U7021-RL-TG, ANCHOR CAT. NO. URS1394HP OR DURHAM CAT. NO. RS213N  
OVER 200 AMP – CONSULT UTILITY DEPT.  
METER SOCKET MUST BE SECURE TO BUILDING STRUCTURAL ELEMENT AND NOT JUST SIDING.  
PROVIDE MINIMUM OF 36" OF HORIZONTAL WORKING SPACE IN FRONT OF METER SOCKET.

# EQUIPMENT LEGEND AND CHECKLIST (CONT.)

- I** 3/4" RIGID GALVANIZED STEEL CONDUIT WITH CONTINUOUS GROUND ELECTRODE CONDUCTOR FOR: 200 AMP SERVICE – NO. 4 INSULATED COPPER GROUND WIRE

CONDUIT TO INCLUDE SUITABLE CONNECTOR AT END TO PREVENT GROUND WIRE FROM BEING PULLED OUT OF METER SOCKET.

BOND GROUND CONDUCTOR TO FUSED DISCONNECT AND METER SOCKET EXTEND CONTINUOUSLY TO NEUTRAL BUS IN MAIN PANELBOARD

- J** GROUND ROD CONNECTOR (MUST BE VISIBLE)  
JOSLYN CAT. NO. J8392, OR APPROVED EQUIVALENT

- K** 5/8" X 8' COPPERWELD GROUND ROD MIN. 12" AWAY FROM BUILDING FOUNDATION IN UNDISTURBED SOIL.

- L** RIGID GALVANIZED STEEL, SCHED. 40 CONDUIT AND FITTINGS WITH CONDUCTORS  
200 AMP – 2-#3/0 PHASE AND 1-#3/0 NEUTRAL THWN COPPER CONDUCTORS  
IN 2 INCH RGS CONDUIT (IDENTIFY NEUTRAL WITH WHITE TAPE)  
100 AMP – 2-#3 PHASE AND 1-#3 NEUTRAL THWN COPPER CONDUCTORS  
IN 1-1/4 INCH RGS CONDUIT (IDENTIFY NEUTRAL WITH WHITE TAPE)

(A 100 AMP SERVICE WILL BE ONLY BE ALLOWED FOR SERVICE UPGRADES AND FOR LIMITED APPLICATIONS AS LISTED IN TEXT OF RULES AND POLICIES ORDINANCE).

- M** PANELBOARD WITH MAIN LUGS ONLY (MLO)  
(PANELBOARD TO BE LOCATED NO FUTHER THAN 5 FEET FROM POINT OF SERVICE ENTRANCE INTO THE INTERIOR OF THE BUILDING)  
PANELBOARD TO BE SOLIDLY SECURED TO WALL AT TOP AND BOTTOM  
PROVIDE MINIMUM OF 36" OF HORIZONTAL WORKING SPACE IN FRONT OF PANELBOARD

- N** FUSED 200 AMP NEMA 3R DISCONNECT (BY OWNER)  
DISCONNECT MUST BE SECURE TO BUILDING STRUCTURAL ELEMENT AND NOT JUST SIDING.  
PROVIDE MINIMUM OF 36" OF HORIZONTAL WORKING SPACE IN FRONT OF FUSED DISCONNECT.

- O** NATURAL GAS METER A MINIMUM OF 10'-0" FROM SERVICE EQUIPMENT

- P** NEUTRAL BONDING TERMINAL