



DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

STANDARD DETAIL DRAWINGS

TRANSPORTATION

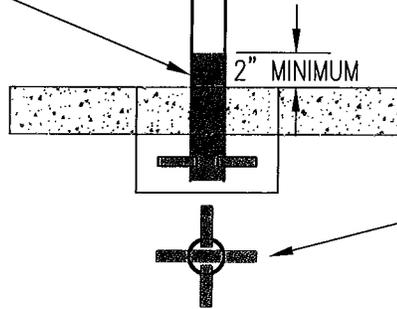
- T-1 TYPICAL PARKING METER INSTALLATION
- T-2 SIGN INSTALLATION
- T-3 STREET NAME SIGN FOOTING
- T-4 E-250 INSTALLATION
- T-5 E-450 INSTALLATION
- T-6 E-650 INSTALLATION



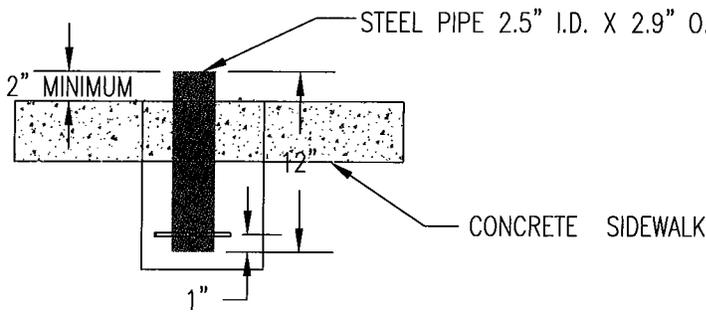
TYPICAL INSTALLATION
BASE COLLAR IN
CONCRETE WALK

REMOVE CONCRETE WALK,
CORE, OR SAW OPENING
FOR METER BASE COLLAR,
AS DIRECTED BY
ENGINEER

BASE COLLAR
STEEL PIPE

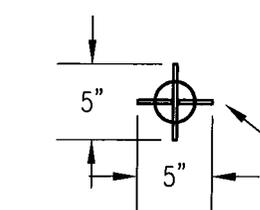


REBAR SUPPORT FOR PIPE



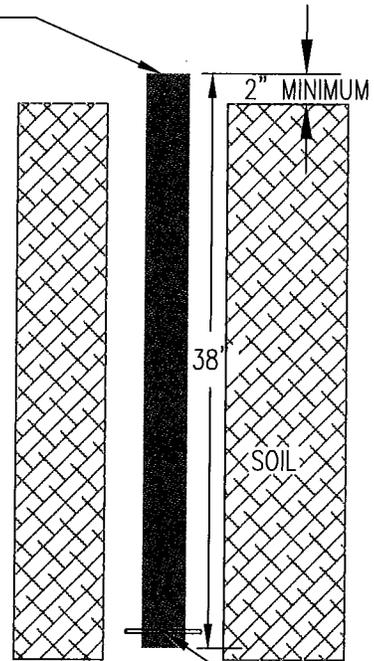
STEEL PIPE 2.5" I.D. X 2.9" O.D.

CONCRETE SIDEWALK



TYPICAL TOP VIEW

5/16" REBAR OR
EQUIVALENT FOR
BOTTOM TEE



REBAR SUPPORT
FOR PIPE

TYPICAL PARKING METER BASE COLLAR
IN CONCRETE SIDEWALK

TYPICAL PARKING METER BASE COLLAR
INSTALLATION IN SOIL

TYPICAL PARKING METER INSTALLATION

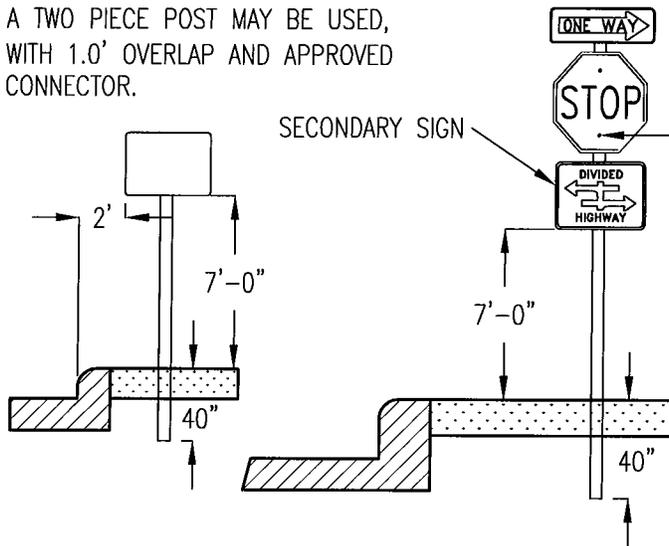
T-1

REVIEWED/APPROVED 2/01/2013

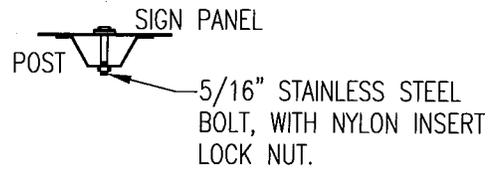
CITY OF DULUTH STANDARD DETAIL
DEPT. OF PUBLIC WORKS AND UTILITIES

NO SCALE

NOTE: ALL DIMENSIONS ARE MINIMUMS.
A TWO PIECE POST MAY BE USED,
WITH 1.0' OVERLAP AND APPROVED
CONNECTOR.



STAINLESS STEEL WASHER & NYLON
WASHER (T=1/16" MIN., I.D.=3/8" MAX.,
O.D.=7/8" MAX.)



NOTE: SEE SPECIAL PROVISIONS FOR
SIGN AND AND POST SPECIFICATIONS.

SIGN PANEL TO POST CONNECTION

ALL MATERIALS AND LABOR USED TO
RELOCATE EXISTING SIGN AS SHOWN,
SHALL BE INCLUDED IN THIS PAY ITEM:

SPEC. 2564.602, REMOVE AND REINSTALL SIGN, EACH

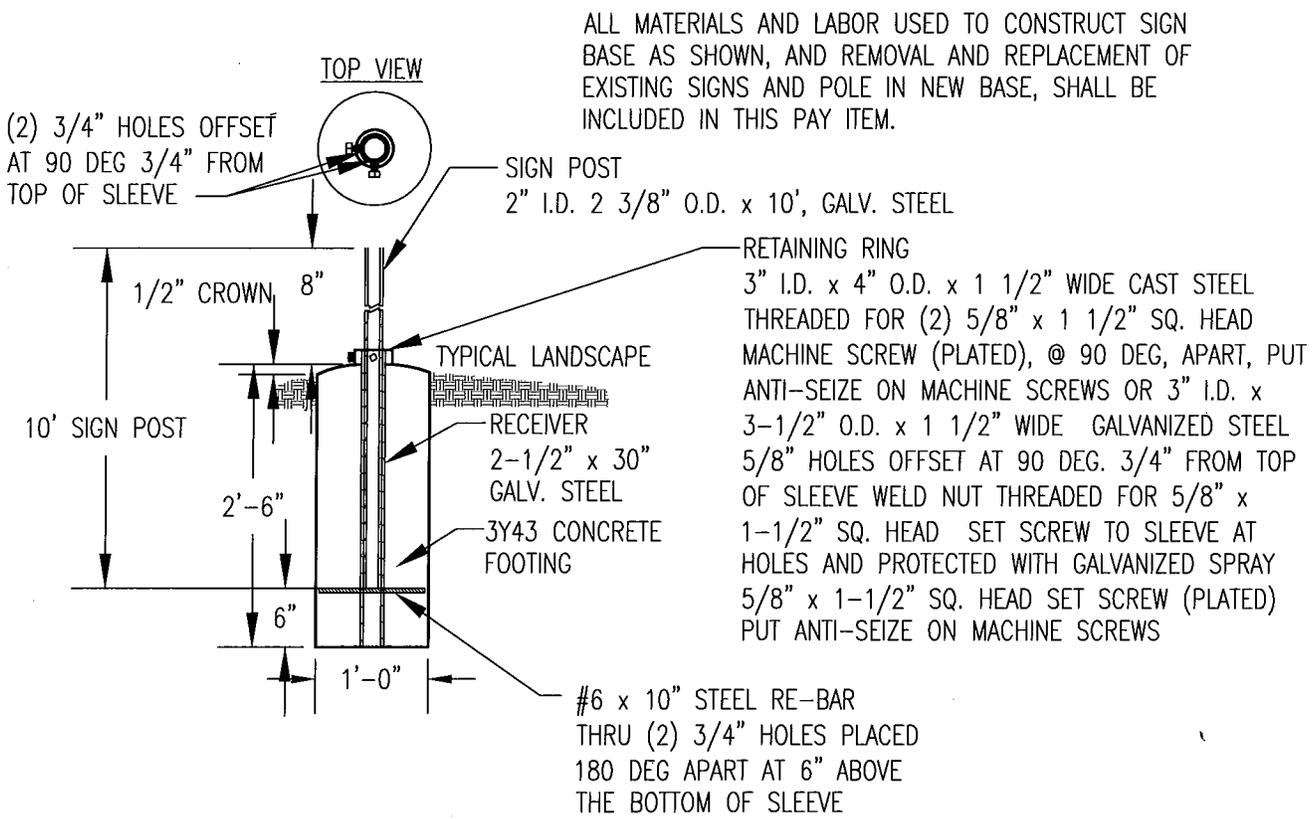
SIGN INSTALLATION DETAIL

T-2

REVIEWED/APPROVED 2/01/2013

CITY OF DULUTH STANDARD DETAIL
DEPT. OF PUBLIC WORKS AND UTILITIES

NO SCALE



SPEC. 2564.602, REMOVE AND REINSTALL SIGN, EACH

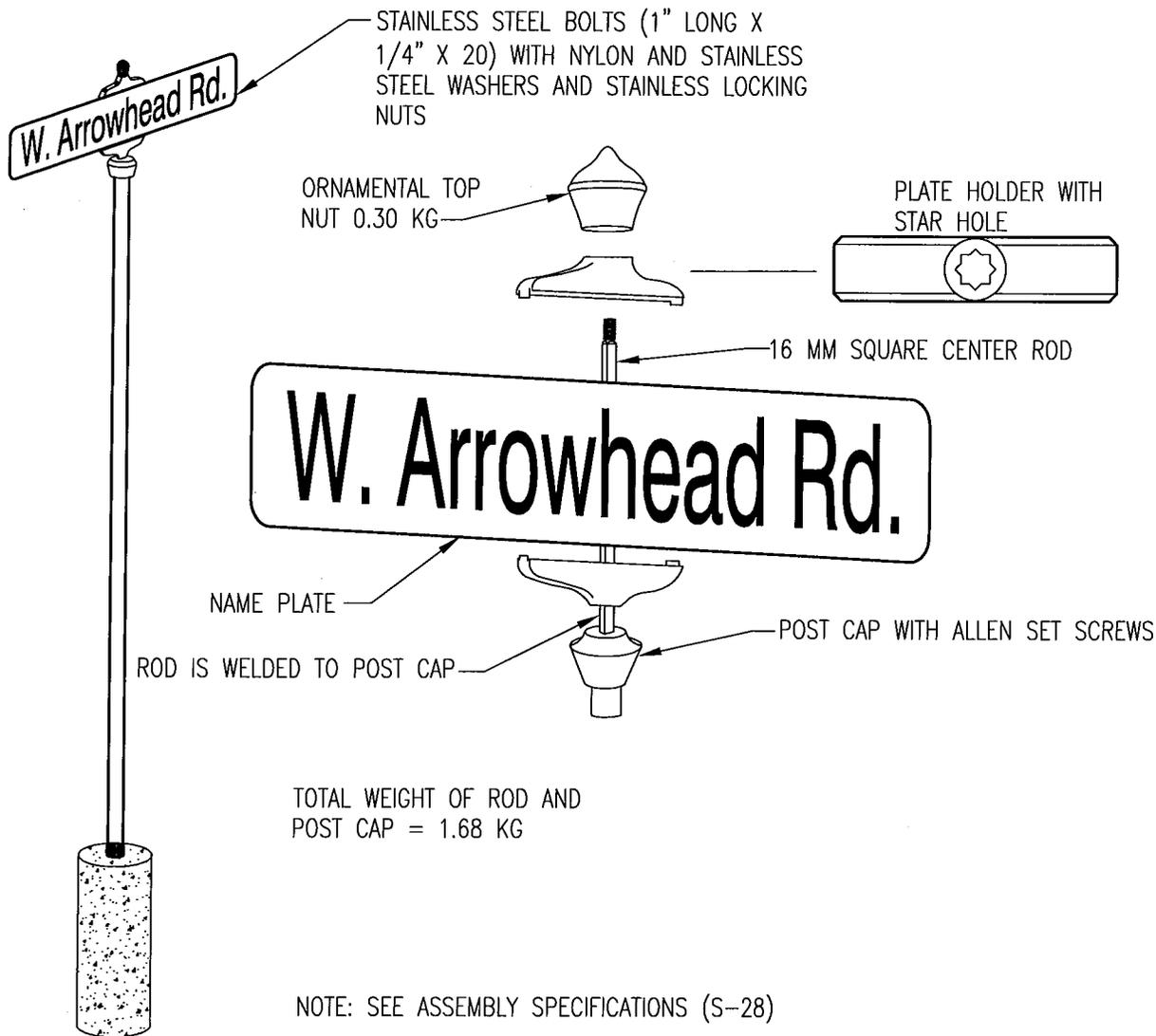
STREET NAME SIGN FOOTING DETAIL

T-3

REVIEWED/APPROVED 2/01/2013

CITY OF DULUTH STANDARD DETAIL
DEPT. OF PUBLIC WORKS AND UTILITIES

NO SCALE



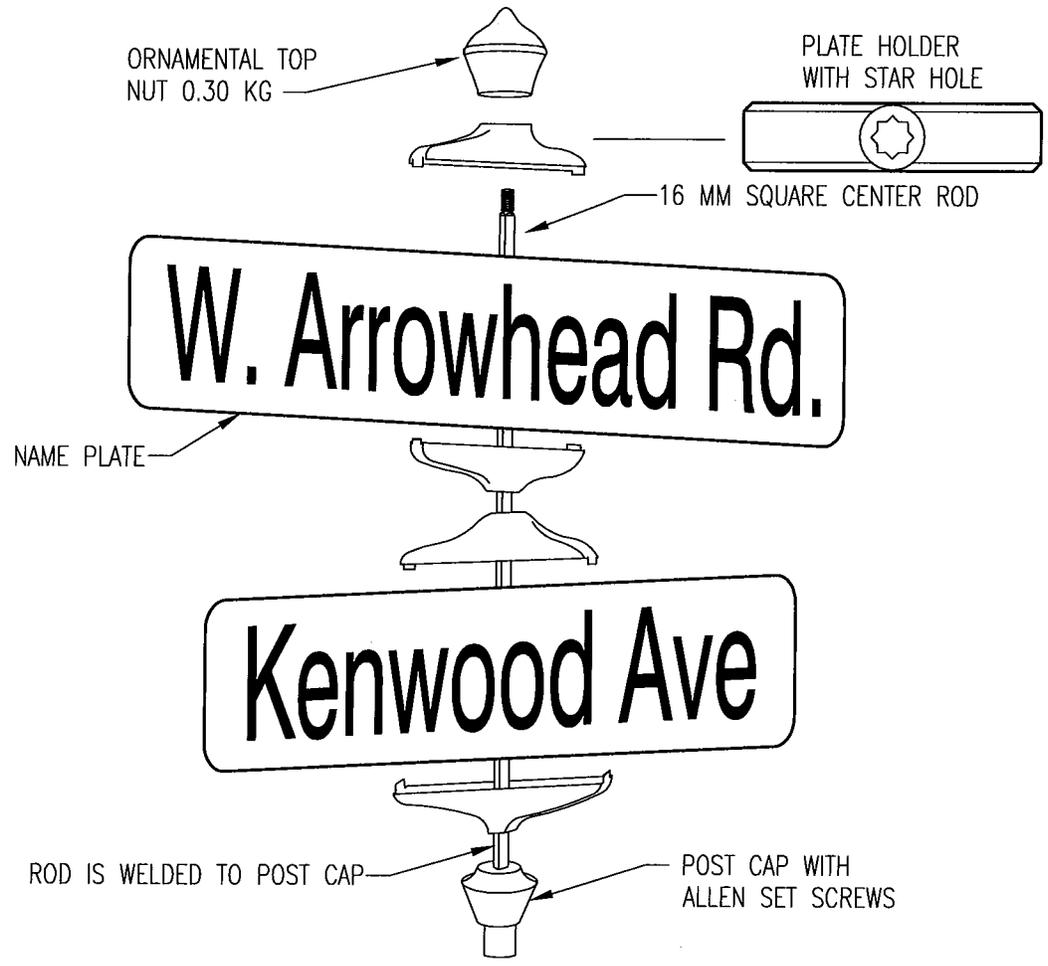
E-250 INSTALLATION

T-4

REVIEWED/APPROVED 2/01/2013

CITY OF DULUTH STANDARD DETAIL
DEPT. OF PUBLIC WORKS AND UTILITIES

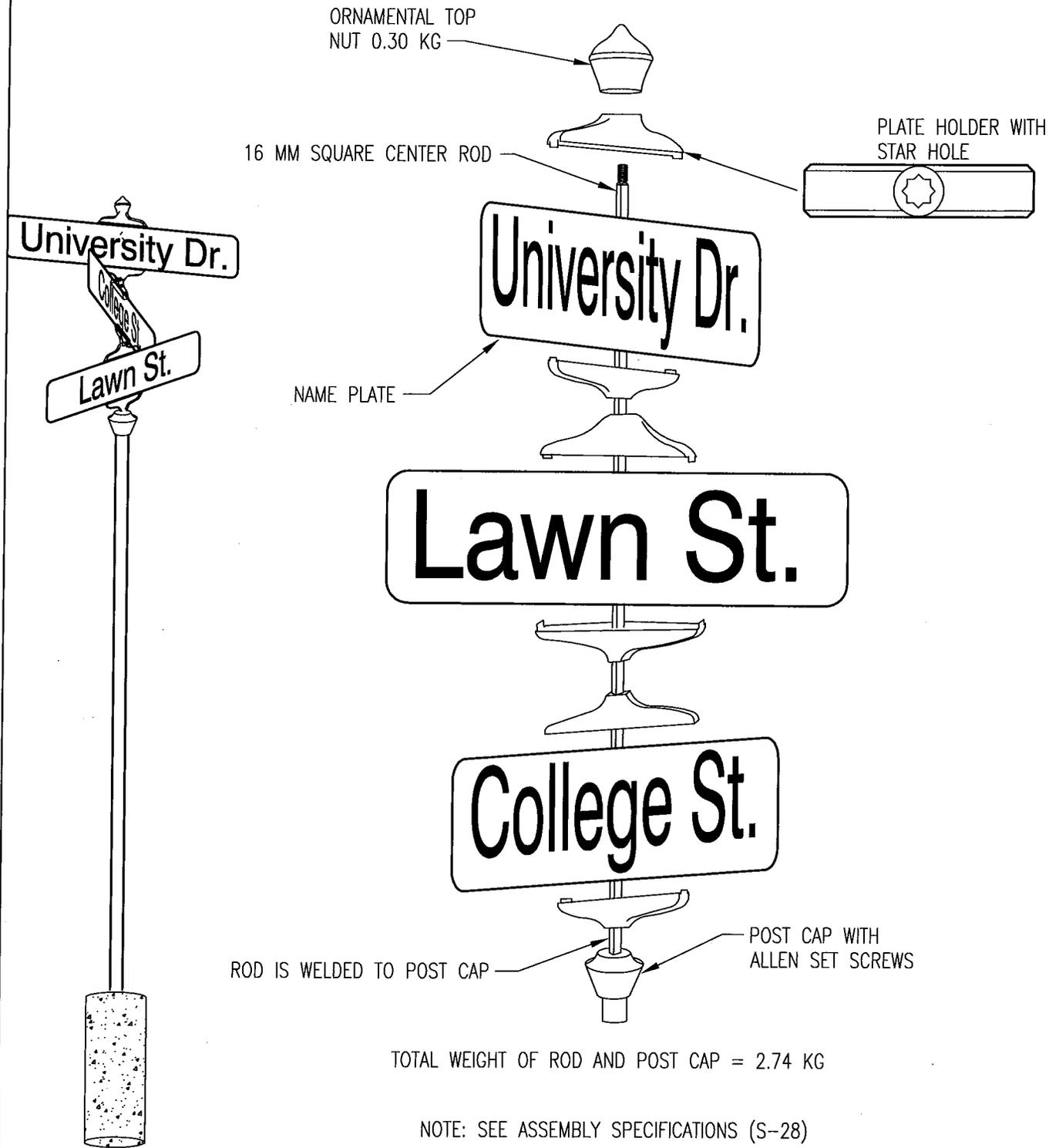
NO SCALE



TOTAL WEIGHT OF ROD AND
POST CAP = 2.15 kg

NOTE: SEE ASSEMBLY SPECIFICATIONS (S-28)

E-450 INSTALLATION		T-5
REVIEWED/APPROVED 2/01/2013	CITY OF DULUTH STANDARD DETAIL DEPT. OF PUBLIC WORKS AND UTILITIES	NO SCALE



TOTAL WEIGHT OF ROD AND POST CAP = 2.74 KG

NOTE: SEE ASSEMBLY SPECIFICATIONS (S-28)

E-650 INSTALLATION		T-6
REVIEWED/APPROVED 2/01/2013	CITY OF DULUTH STANDARD DETAIL DEPT. OF PUBLIC WORKS AND UTILITIES	NO SCALE