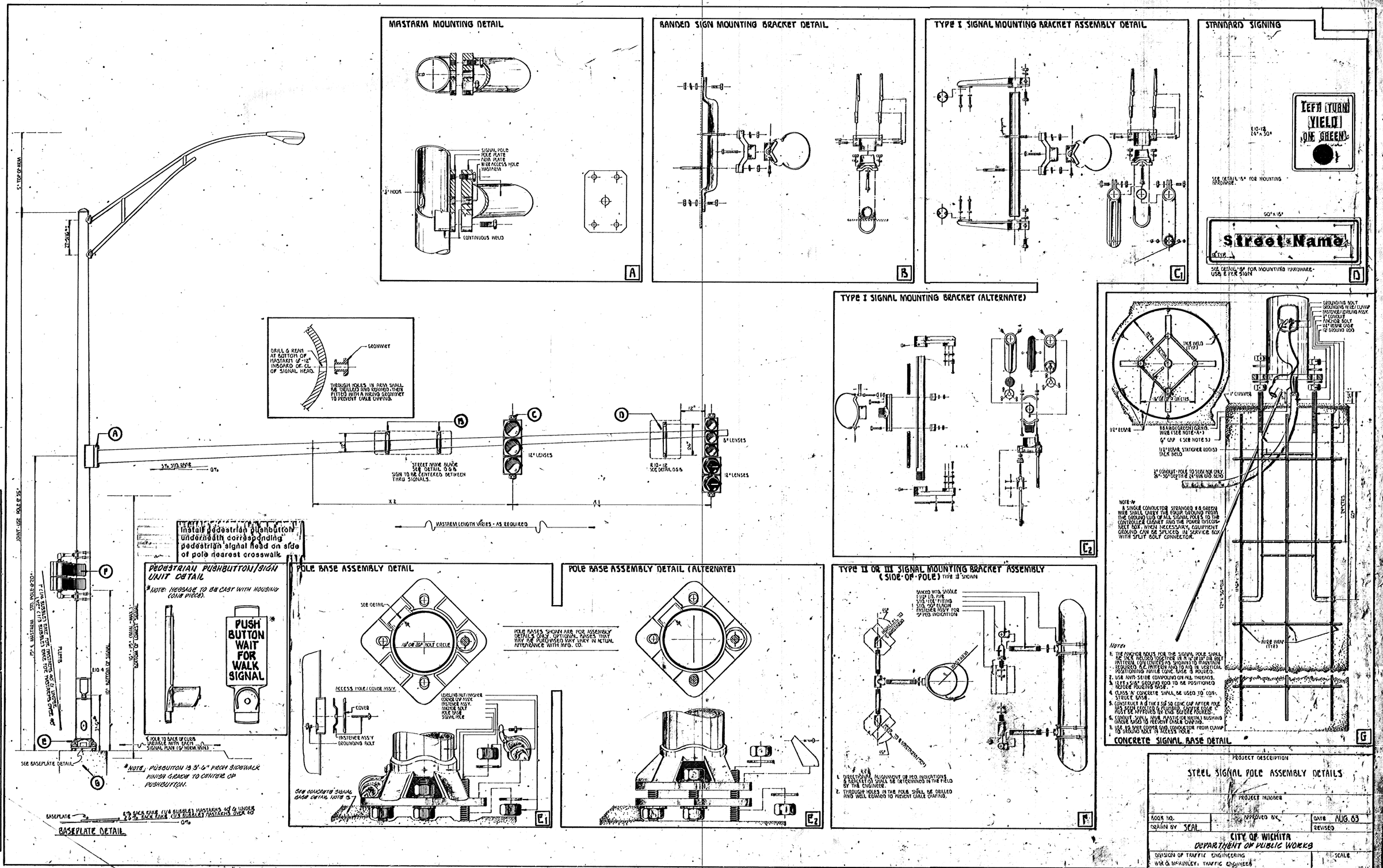
MASTARM MOUNTING DETAIL
SIGNAL POLE
POLE PLATE
ARM PLATE
WIRE ACCESS HOLE
MASTARM
1" HOOK
CONTINUOUS WELD
A
BANDED SIGN MOUNTING BRACKET DETAIL
B
TYPE I SIGNAL MOUNTING BRACKET ASSEMBLY DETAIL
C1
STANDARD SIGNING
LEFT TURN
YIELD
ON GREEN
SEE DETAIL "G" FOR MOUNTING HARDWARE.
60"x 15"
Street Name
SEE DETAIL "G" FOR MOUNTING HARDWARE - USE 2 PER SIGN
D
TYPE I SIGNAL MOUNTING BRACKET (ALTERNATE)
E2
DRILL & REAM AT BOTTOM OF MASTARM 6"-12" INBOARD OF CL OF SIGNAL HEAD.
GROMMET
THROUGH HOLES IN ARM SHALL BE DRILLED AND REAMED THEN FITTED WITH A NYLON GROMMET TO PREVENT CABLE CHAFING.
5' TOP OF ARM
JOINT USE POLE @ 35'
STREET NAME MARK SEE DETAIL D & G
SIGN TO BE CENTERED BETWEEN THRU SIGNALS.
12" LENSES
8" LENSES
MASTARM LENGTH VARIES - AS REQUIRED
Install pedestrian pushbutton underneath corresponding pedestrian signal head on side of pole nearest crosswalk.
PEDESTRIAN PUSHBUTTON/SIGN UNIT DETAIL
*NOTE: MESSAGE TO BE CAST WITH HOUSING (ONE PIECE).
PUSH BUTTON WAIT FOR WALK SIGNAL
POLE BASE ASSEMBLY DETAIL
SEE DETAIL
1/2 OR 3/4" BOLT CIRCLE
ACCESS HOLE/COVER ASSY.
COVER
FASTENER ASSY.
GROUNDING BOLT
LEVELING NUT/WASHER
COVER CAP ASSY.
FASTENER ASSY.
ANCHOR BOLT
POLE BASE
SIGNAL POLE
POLE BASES SHOWN ARE FOR ASSEMBLY DETAILS ONLY. OPTIONAL BASES THAT MAY BE PURCHASED MAY VARY IN ACTUAL APPEARANCE WITH MFG. CO.
E1
POLE BASE ASSEMBLY DETAIL (ALTERNATE)
E2
TYPE II OR III SIGNAL MOUNTING BRACKET ASSEMBLY (SIDE-OF-POLE) TYPE II SHOWN
BANDED WITH SADDLE
1 TYP. I.D. PIPE
STD. PIPE FITTING
STD. 90° ELBOW
FASTENER ASSY. FOR 3" PED. INDICATION
45°
PARALLEL TO TRAFFICAL
MASTARM
PERPENDICULAR TO MASTARM (TYP)
1. DIRECTIONAL ALIGNMENT OF PED. INDICATIONS & BRACKET(S) SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
2. THROUGH HOLES IN THE POLE SHALL BE DRILLED AND WELL REAMED TO PREVENT CABLE CHAFING.
F
GROUNDING BOLT
GROUNDING WIRE/CLAMP
FASTENER/LEVELING ASSY.
1" CONDUIT
ANCHOR BOLT
1/2" REAMER CABLE
#8 GROUND ROD
1" CHAMFER
1/2" REAMER
#8 AWG (GREEN) GRND. WIRE (SEE NOTE "A")
6" CAP (SEE NOTE 5)
1/2" REAMER, STAINLESS BOLT(S) TACK WELD
1" CONDUIT - POLE TO SURFACE CAP 24" - 30" DEPTH @ 24" MIN. GRD. BEND
NOTE "A"
A SINGLE CONDUCTOR STRANDED #8 GREEN WIRE SHALL CARRY THE FOUR GROUND FROM THE GROUND LUG OF ALL SIGNAL POLES TO THE CONTROLLER CABINET AND THE POWER DISCONNECT BOX. WHEN NECESSARY, EQUIPMENT GROUND CAN BE SPLICED IN SERVICE BOX WITH SPLIT BOLT CONNECTOR.
HIGH WATER (TYP)
Notes
1. THE ANCHOR BOLTS FOR THE SIGNAL POLE SHALL BE OPEN WELDED TOGETHER IN A 12" OR 20" BOLT PATTERN (1/2" CENTERS) AS SHOWN TO MAINTAIN REQUIRED B.C. PATTERN AND TO ALIGN IN VERTICAL POSITIONING POWER CONC. BASE IS POURED.
2. USE ANTI-SEIZE COMPOUND ON ALL THREADS.
3. USE 2 5/8" GROUND RODS TO BE POSITIONED BEFORE POURING BASE.
4. CLASS "A" CONCRETE SHALL BE USED TO CONSTRUCT BASE.
5. CONSTRUCT A 4" THK 3 SF SQ CONC CAP AFTER POLE HAS BEEN ERECTED & PLUMBED. COPPER COVER MUST BE APPROVED BY ENGR BEFORE POURING.
6. CONDUIT SHALL HAVE PLASTIC (OR METAL) BUSHING UNDER BASE TO PREVENT CABLE CHAFING.
7. USE #10 AWG COPPER GND. CONDUCTOR FROM CLAMP TO GROUND BOLT IN ACCESS HOLE.
CONCRETE SIGNAL BASE DETAIL
G
SEE BASEPLATE DETAIL
*NOTE: PUSHBUTTON IS 3'-6" FROM SIDEWALK FINISH GRADE TO CENTER OF PUSHBUTTON.
BASEPLATE
BASEPLATE DETAIL
PROJECT DESCRIPTION
STEEL SIGNAL POLE ASSEMBLY DETAILS
PROJECT NUMBER
BOOK NO.
APPROVED BY
DATE AUG. 63
DRAWN BY SEAL
REVISED
CITY OF WICHITA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF TRAFFIC ENGINEERING
WM. G. McKINLEY, TRAFFIC ENGINEER
SCALE
COMMENTS
REVISIONS