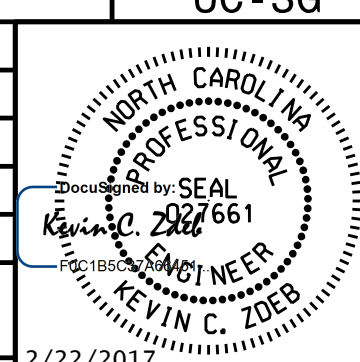
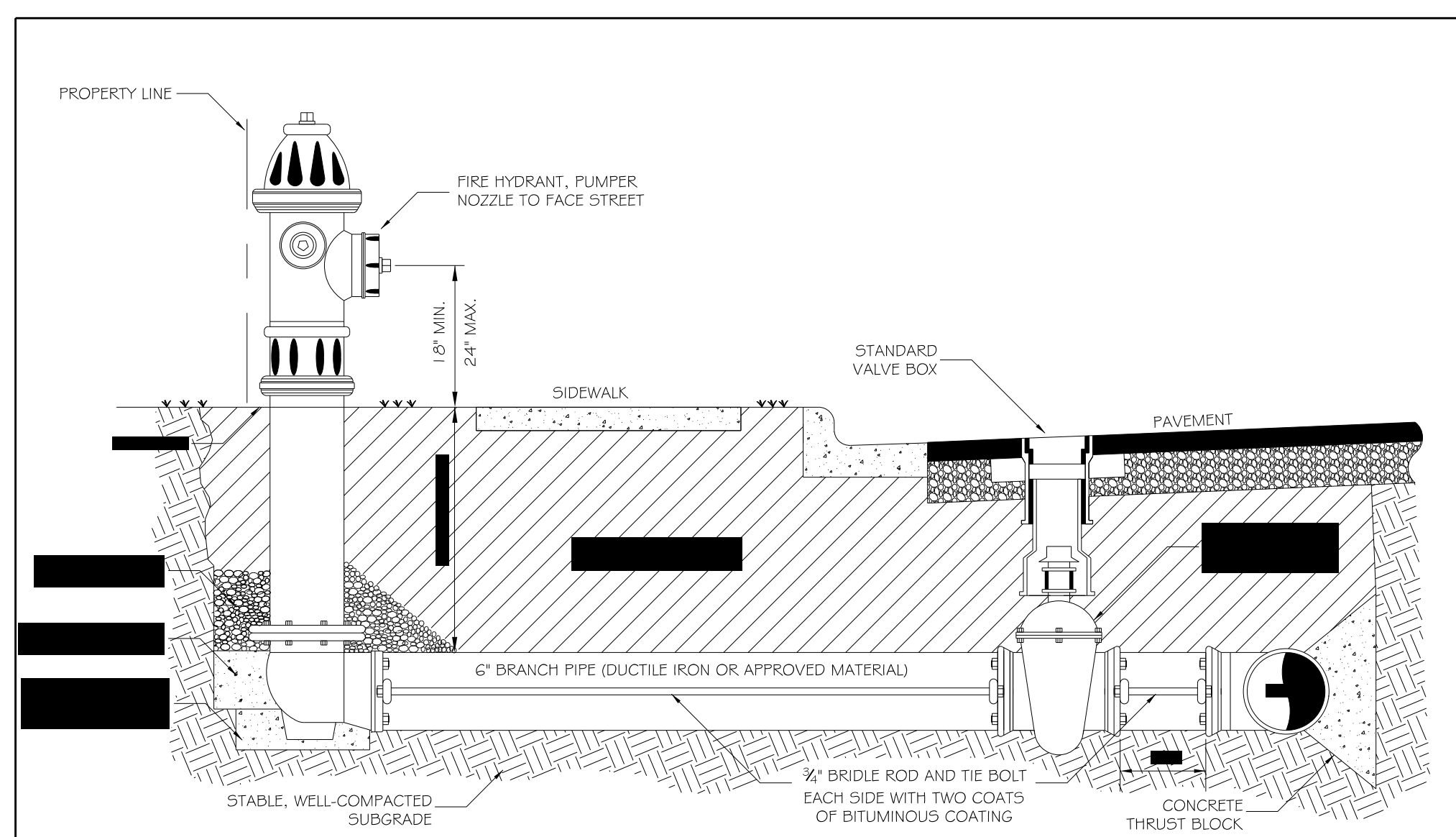
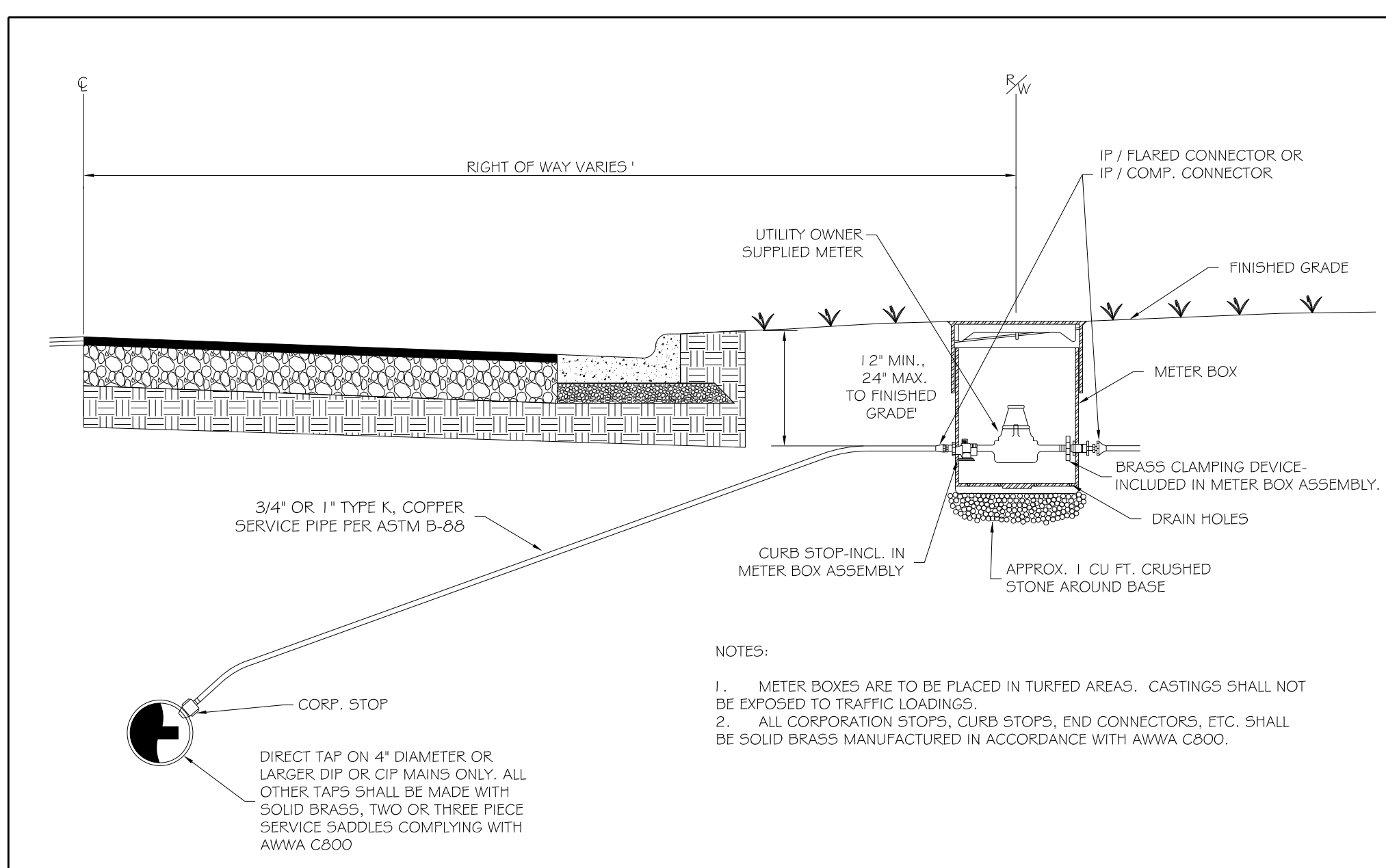


PROJECT REFERENCE NO.	SHEET NO.
U-3621A	UC-3G
DESIGNED BY: GJB	
DRAWN BY: GJB	
CHECKED BY: KCZ	
APPROVED BY: KCZ	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SECTION PHONE: (919) 707-6690 FAX: (919) 250-4151	
2/22/2017 UTILITY CONSTRUCTION PLANS ONLY	
UTILITY CONSTRUCTION	
DOCUMENT NOT CONSIDERED FINAL UNTIL ALL SIGNATURES ARE COMPLETED	
M A Engineering Consultants, Inc.	

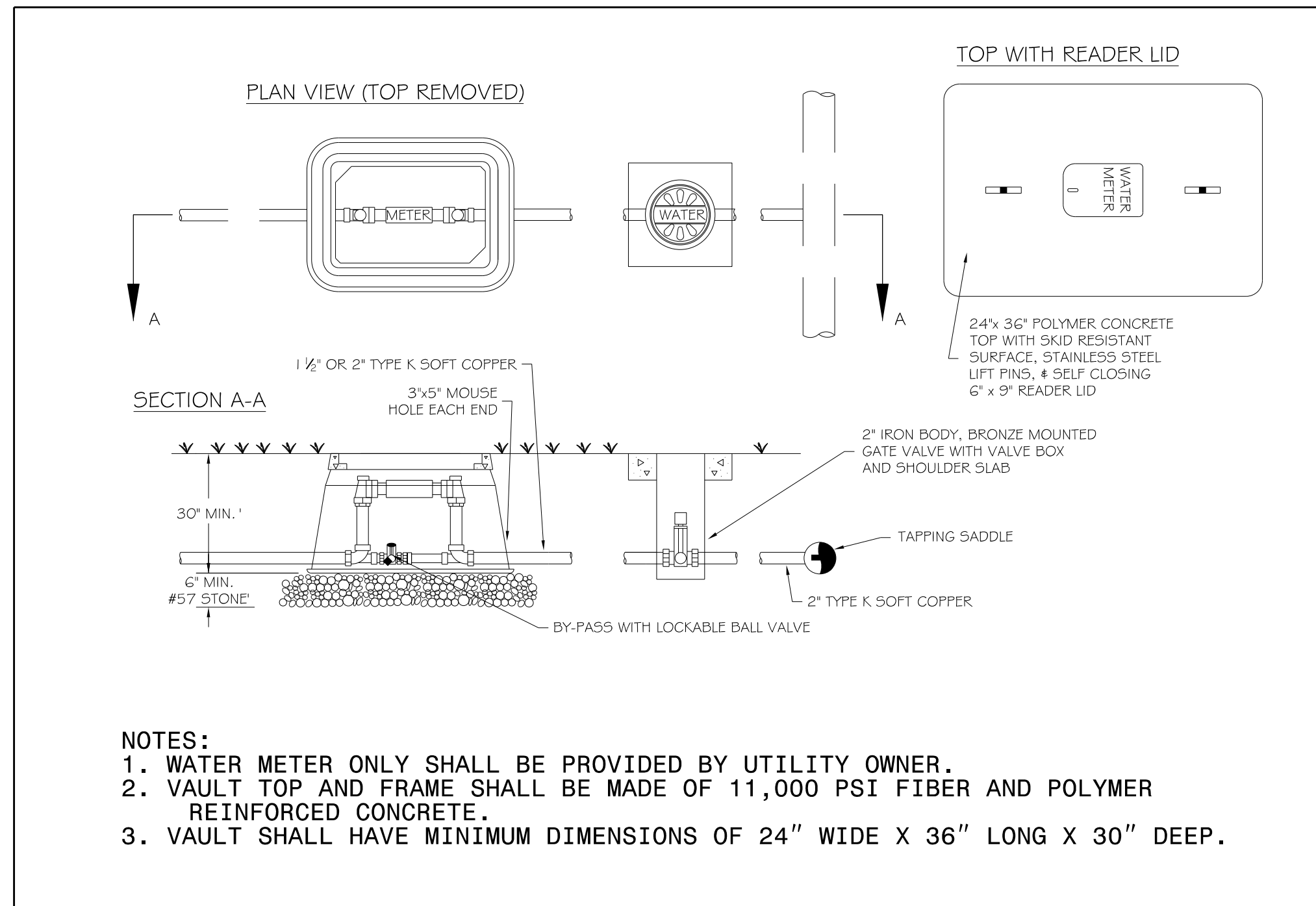


- NOTES:**
- FOR HYDRANT INSTALLATION ON EXISTING MAIN, USE TAPPING SLEEVE AND VALVE ASSEMBLY.
 - HYDRANT SHALL HAVE REPLACEABLE BRONZE NOZZLES WITH NATIONAL STANDARD THREADS, BREAK-AWAY TRAFFIC FEATURE, AND BRONZE ON BRONZE SEAT RINGS.
 - HYDRANT SHALL HAVE PENTAGON SHAPED (5 SIDED) OPERATING NUT.
 - HYDRANT SHALL BE PAINTED WITH RUSTOLEUM #964 FEDERAL SAFETY RED.
 - NOZZLE CAPS AND BONNET SHALL BE PAINTED ALERT SERIES 1440 SILVER WHITE.
 - HYDRANT SHALL BE OILED OR GREASED AS RECOMMENDED BY MANUFACTURER AFTER INSTALLATION.
 - CLASS A CONCRETE BLOCKING SHALL BE PLACED BEHIND BOTH THE TEE AND HYDRANT.
 - IN LIEU OF THREADED BRIDLE RODS, APPROVED GRIP RING OR LOCKING FLANGE CONNECTIONS MAY BE USED. BOTH GRIP RINGS AND LOCKING FLANGES SHALL BE UL LISTED AND F.M. APPROVED WITH A WORKING PRESSURE OF NOT LESS THAN 350 PSI WITH A MINIMUM SAFETY FACTOR OF 2:1. LOCKING FLANGE CONNECTIONS SHALL ONLY BE PERMITTED WHERE PROPER PLACEMENT AND GRADE ADJUSTMENT CAN BE PROVIDED, AS APPROVED BY UTILITY OWNER.

FIRE HYDRANT DETAIL

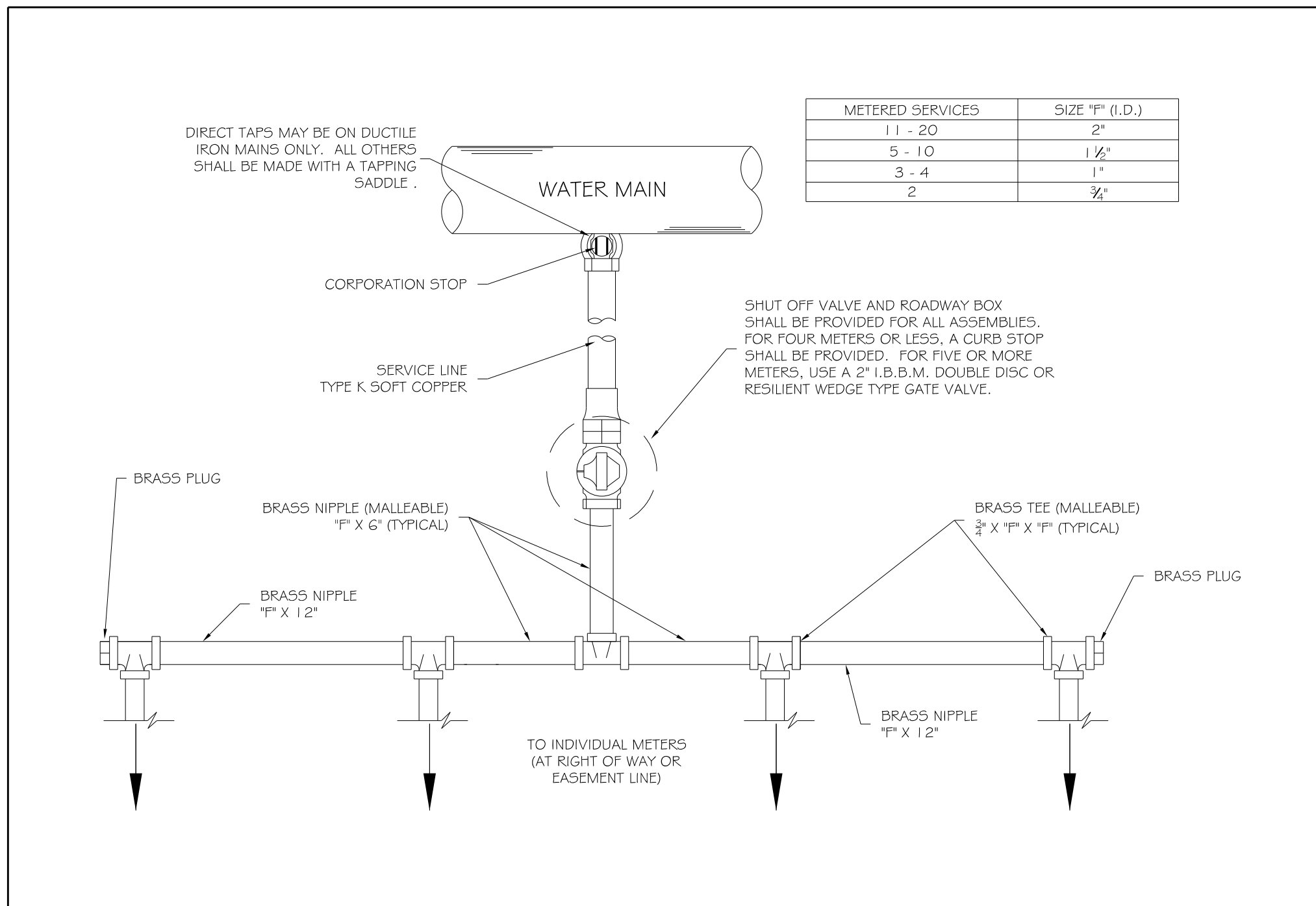


5/8" X 3/4" AND 1" WATER SERVICE DETAIL



- NOTES:**
- WATER METER ONLY SHALL BE PROVIDED BY UTILITY OWNER.
 - VAULT TOP AND FRAME SHALL BE MADE OF 11,000 PSI FIBER AND POLYMER REINFORCED CONCRETE.
 - VAULT SHALL HAVE MINIMUM DIMENSIONS OF 24" WIDE X 36" LONG X 30" DEEP.

1-1/2" AND 2" STANDARD WATER METER VAULT DETAIL



STANDARD GANG METER ASSEMBLY DETAIL

5/14/19
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