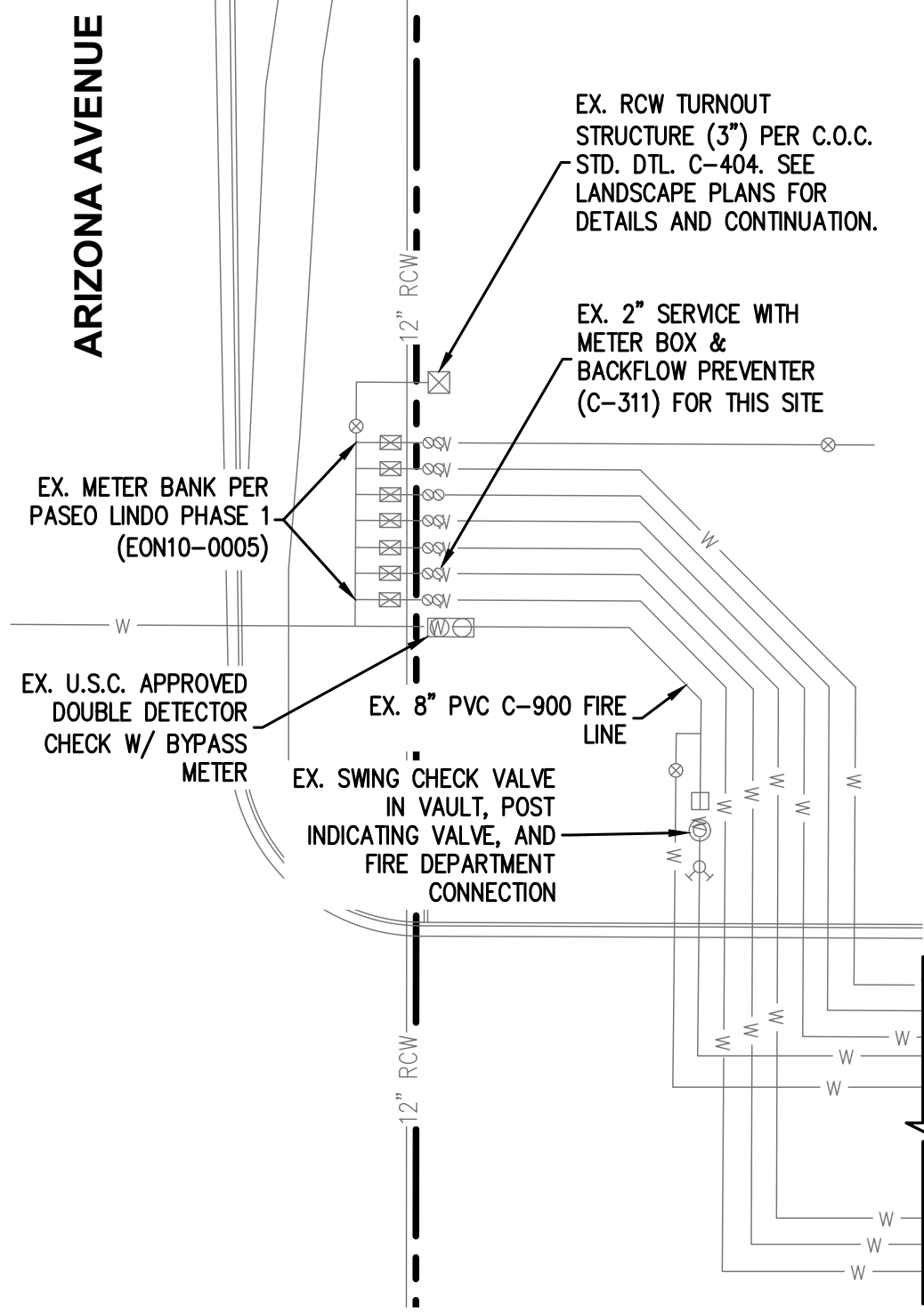
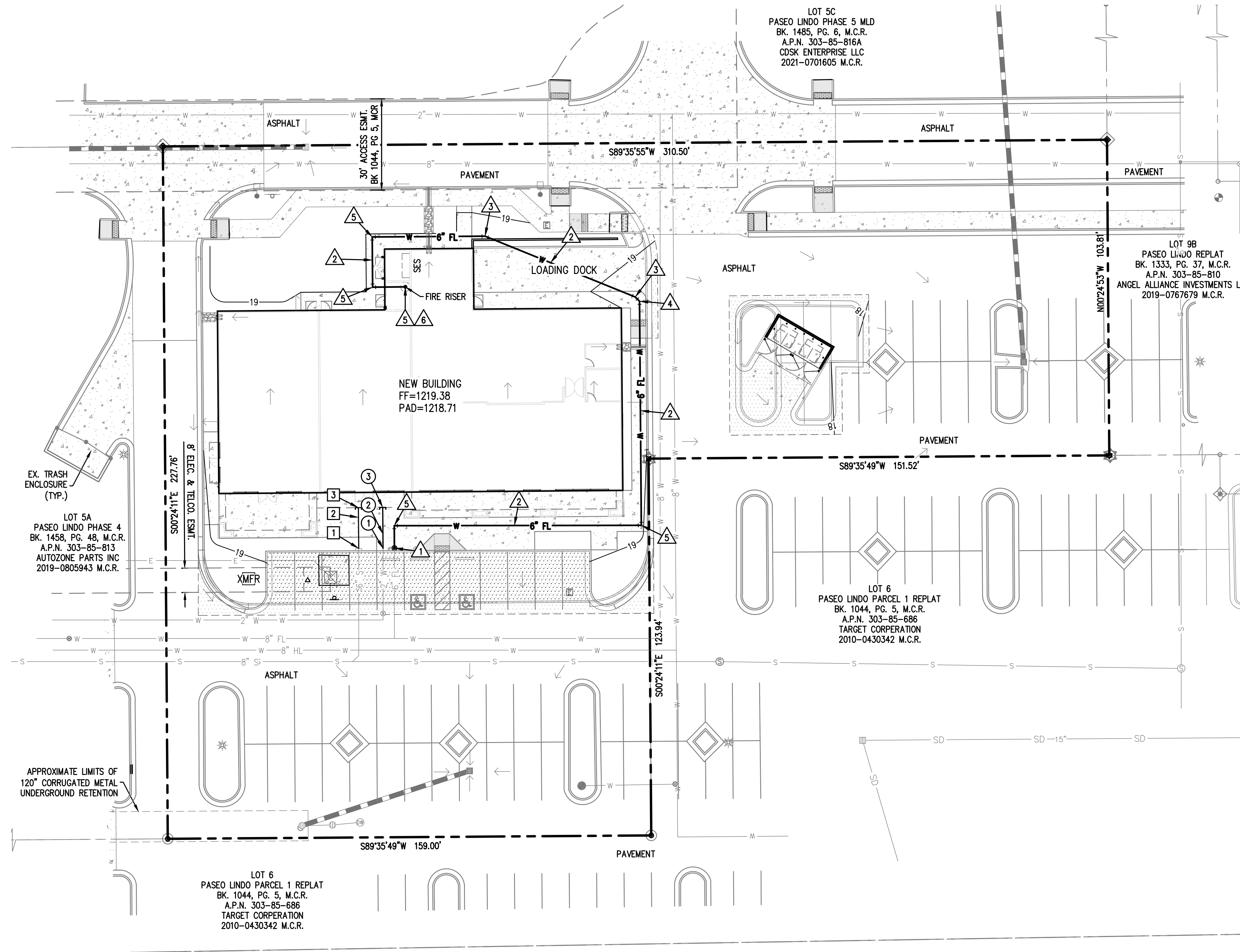


WATER, SEWER & FIRELINE PLAN



METER BANK AND BACKFLOW DETAIL

CONSTRUCTION NOTES:

- WATER**
 - CONNECT TO EXISTING WATER SERVICE. CONTRACTOR TO VERIFY LOCATION OF EXISTING WATER SERVICE PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
 - TRENCH & INSTALL 2" DOMESTIC WATER SERVICE PIPE (SCHEDULE 80 PVC OR APPROVED EQUAL).
 - CONNECT TO BUILDING PLUMBING AT 5' FROM FACE OF BUILDING (SEE PLUMBING PLANS FOR CONTINUATION).
- △ FIRE**
 - EXISTING PIV TO REMAIN AND TO BE PAINTED RED WITH SIGNAGE PER FD104. CONNECT TO EXISTING FIRE LINE. CONTRACTOR TO VERIFY LOCATION OF EXISTING STUB PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
 - INSTALL 6" PVC C-900 (CLASS 150) WATER PIPE PER C.O.C. STANDARD SPECIFICATIONS. BEDDING PER C.O.C. STD. DTL. C-308 AND LOCATOR WIRE AND ID TAPE PER C-408. MIN. 3' DEPTH.
 - INSTALL 22.5° BEND WITH THRUST BLOCK PER NFPA 24.
 - INSTALL 45° BEND WITH THRUST BLOCK PER NFPA 24.
 - INSTALL 90° BEND WITH THRUST BLOCK PER NFPA 24.
 - INSTALL FIRE SPRINKLER RISER WITH CONTROL VALVE PER C.O.C. STD. DTL. FD105 AND SIGNAGE PER FD106. COORDINATE EXACT RISER LOCATION AND DETAILS WITH FIRE PROTECTION PLANS. UNDERGROUND FIRE LINES WITHIN 10' OF BUILDING MUST BE DIP.
- SEWER**
 - CONNECT TO EXISTING SEWER STUB. CONTRACTOR TO VERIFY SEWER INVERT ELEVATION PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
 - TRENCH & INSTALL 6" PVC (SDR-35) SEWER PIPE. INSTALL PVC (SDR-26) FOR SEWER DEPTHS 10' OR GREATER. BEDDING PER C.O.C. STD. DTL. C-402 AND PIPE LOCATOR WIRE & I.D. TAPE PER DTL. C-408.
 - CONNECT TO BUILDING PLUMBING (SEE PLUMBING PLANS FOR CONTINUATION).

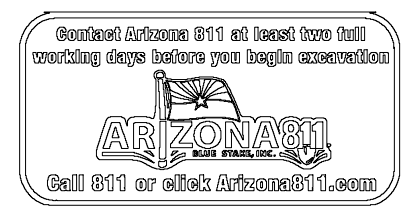
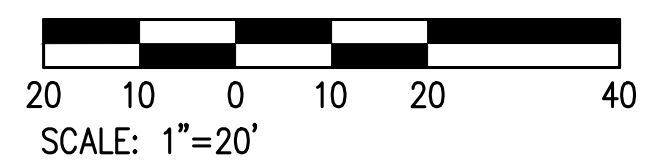
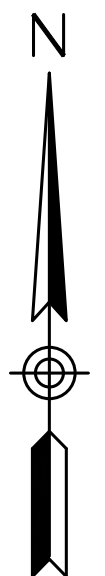
NOTES:

- CONTRACTOR TO POTHOLE AND VERIFY DEPTH AND LOCATION OF EXISTING UTILITIES SHOWN ON THIS PLAN PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES.
- DEPTH OF COVER FOR THE ON-SITE FIRELINE SHALL BE MINIMUM 3 FEET OVER PIPE PER NFPA 24.
- THE NUMBER AND DISTRIBUTION OF FIRE HYDRANTS AVAILABLE FOR THE SITE AND BUILDING(S) ARE IN ACCORDANCE WITH FIRE DEPARTMENT STANDARDS.
- WATER LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH M.A.G. STD. SPEC. 610.
- TRENCH BEDDING FOR ALL PVC WATER PIPE SHALL BE IN ACCORDANCE WITH C.O.C. STD. DTL. C-308. LINES INSTALLED IN THE SAME TRENCH SHALL HAVE A MINIMUM OF 1 FOOT VERTICAL SEPARATION TO ACCOMMODATE THRUST BLOCKING ON THE SEPERATE LINES.
- METALLIC WARNING TAPE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION INSTRUCTIONS WHEN NON-METALLIC PIPING IS USED FOR UNDERGROUND FIRE LINES PER C-408.
- ALL SYSTEM COMPONENTS SHALL BE LISTED OR APPROVED FOR FIRE PROTECTION USE BY AN APPROVED TESTING AGENCY.
- INSTALL JOINT RESTRAINTS AT ALL PUBLIC WATER AND FIRELINE PIPE BENDS PER M.A.G. STD. DTL. 303-1 AND 303-2.
- ALL FIRE LINE THRUST BLOCKS SHALL COMPLY WITH N.F.P.A. 24.
- ALL UNDERGROUND FIRE LINES MUST BE DIP WITHIN 10' OF DOUBLE CHECK DETECTOR, BURIED SWING CHECK, POST INDICATOR VALVE, FIRE DEPARTMENT CONNECTIONS AND THE BUILDING, INCLUDING VERTICAL AND ABOVE GRADE PIPING. THE REMAINDER OF THE LINE MAY BE PVC C900 OR C905.
- UNI-FLANGE DEVICES SHALL NOT BE INSTALLED ON ABOVE GROUND PIPING.
- FIRE HYDRANT OPERATING NUT LOCKS (C-304) SHALL NOT BE INSTALLED ON PRIVATE FIRE HYDRANTS.
- THE FOLLOWING INSTALLATION PROCEDURE SHALL BE FOLLOWED ON ALL WATER LINE EXTENSIONS OF LINES OVER ELEVEN (11) MONTHS IN AGE:

A NEW VALVE OF LIKE SIZE SHALL BE INSTALLED IN THE NEW LINE EXTENSION AT THE POINT OF EXTENSION. A 3/4" SADDLE AND RISER SHALL BE INSTALLED IN THE LINE BETWEEN THE NEW VALVE AND THE FIRST EXISTING VALVE IN THE EXISTING SYSTEM. THIS LINE WILL BE FLUSHED AND TESTED BY THE CITY AND THE 3/4" NUT AND RISER REMOVED.

AFTER THE NEW WATER SYSTEM IS ACCEPTED BY THE CITY AND THE NEW VALVE AND EXISTING VALVE ARE TURNED ON, THE OPERATING NUT SHALL BE REMOVED FROM ONE OR THE OTHER OF THE VALVES AND ABANDONED.

(BASIS OF BEARINGS)



REVISIONS:	DATE:
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