



①	FIRE HYDRANT SHALL BE WET BARREL TYPE. 4 ½" OUTLET SHALL FACE THE STREET. BOLTS ATTACHING FIRE HYDRANT TO BREAK-OFF SPOOL SHALL BE OF THE BREAK-OFF TYPE, HEX HEAD, WITH THE HEAD ON TOP OF THE SPOOL FLANGE. HYDRANT SHALL BE LOCATED AT PROPERTY LINES, OUTSIDE OF CURB RETURN AREAS, AND AT LEAST 3' FROM DRIVEWAYS WHERE POSSIBLE.
②	12" BREAK-OFF SPOOL. BREAK-OFF GROOVE TO BE ABOVE CONCRETE. POLYWRAP SPOOL BELOW CONCRETE PAD.
③	BURY SECTION. FLANGED x MECHANICAL JOINT. (USE RESTRAINING GLAND IF REQUIRED.) POLYWRAP.
④	MIN 4,000 PSI CONCRETE THRUST BLOCK IF LATERAL HAS UNRESTRAINED JOINTS. (SEE DETAIL #519).
⑤	6" PVC C900 OR DUCTILE IRON C151. POLYWRAP DUCTILE IRON PIPE BELOW GRADE AND THROUGH CONCRETE PAD PENETRATION.
⑥	6" RESILIENT WEDGE GATE VALVE. FLANGED x MECHANICAL JOINT (USE RESTRAINING GLAND IF REQUIRED). POLYWRAP.
⑦	TEE WITH FLANGED CONNECTION FOR VALVE. POLYWRAP.

⑧	EIGHT (8) INCH DIAMETER PVC RISER. C-900 OR SDR 35. RISER CASING SHALL BE PLUMB AND OVERLAP VALVE BOX DEPTH BY THREE (3) INCHES.
⑨	CHRISTY G05T TRAFFIC VALVE BOX AND LID OR APPROVED EQUAL. LID SHALL READ "WATER".
⑩	4" MIN. THICKNESS CONCRETE PAD, 36" x 36" SQUARE OR AS NECESSARY TO ACCOMMODATE BOLLARDS IF REQUIRED (DETAIL #517). CENTER FIRE HYDRANT IN PAD. SLOPE PAD TO MATCH SIDEWALK, CURB, OR FINISHED GRADE. (TYP. 2%)
⑪	REFLECTIVE BLUE MARKER (TYPE DB). AT INTERSECTIONS: TWO MARKERS SHALL BE INSTALLED PERPENDICULAR TO FIRE HYDRANT ON EACH STREET AND 9" INSIDE OF CENTERLINE. (SEE DETAIL #516)
⑫	TRACER WIRE. (SEE DETAIL #513)
⑬	PROVIDE EXTENSION IF OPERATING NUT EXCEEDS MAXIMUM OF 4' FROM FINISHED GRADE. EXTENSION SHALL INCLUDE A STEADYING PLATE. UNLESS OTHERWISE DIRECTED BY THE CITY.
⑭	MIN 4,000 PSI CONCRETE COLLAR WITH LAMP BLACK PIGMENT ADDED TO MATCH COLOR OF AC PAVEMENT. COLLAR SHALL MATCH ROADWAY SURFACE LEVEL.

NOTES:

- A. ALL NUTS, BOLTS, AND WASHERS ON FLANGED FITTINGS SHALL BE STAINLESS STEEL TYPE 304 EXCEPT FOR BREAK-OFF BOLTS. FITTINGS SHALL BE WRAPPED AND BEDDED IN SAND.
- B. WHERE NO R/W OR EASEMENT EXIST BEHIND NEW OR EXISTING SIDEWALK, AND FOR AREAS WITH SEPARATED SIDEWALK, INSTALL CENTER OF FIRE HYDRANT 18 INCHES BEHIND FACE OF CURB.
- C. CONCRETE SHALL BE MIN 4,000 PSI.
- D. LOWEST STEM OF FIRE HYDRANT SHALL HAVE A MIN. CLEARANCE OF 18 INCHES AND A MAX. CLEARANCE OF 24 INCHES TO GRADE.
- E. HYDRANTS SHALL BE FACTORY SPRAY PAINTED W/ONE (1) PRIMER COAT AND TWO (2) FINISH COATS OF LIFE MASTER PRO 4200 SERIES INTERIOR/EXTERIOR WATERBORNE ACRYLIC SEMI-GLOSS ENAMEL. HYDRANT COATING, MANUFACTURER AND APPLICATION INSTRUCTIONS SHALL BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL. R/W HYDRANTS SHALL BE PAINTED "SAFETY YELLOW" AND PRIVATE HYDRANTS SHALL BE PAINTED "SAFETY RED".
- F. WHERE REQUIRED, BOLLARDS SHALL BE PLACED PER STANDARD DETAIL #517.



APPROVED: Aug. X, 2025

STANDARD
DETAIL #

515

TITLE:
**FIRE HYDRANT
LATERAL AND
VALVE ASSEMBLY**

