

NOTES:

- FRAME & GRATE OR FRAME & COVER MUST BE LOCATED OVER TRAP.
- 2. INVERT OF INLET PIPE MUST BE 2"MIN ABOVE INVERT OF OUTLET PIPE.
- 3. SEE STD PLAN 261 FOR ALLOWABLE OUTLET LOCATIONS.

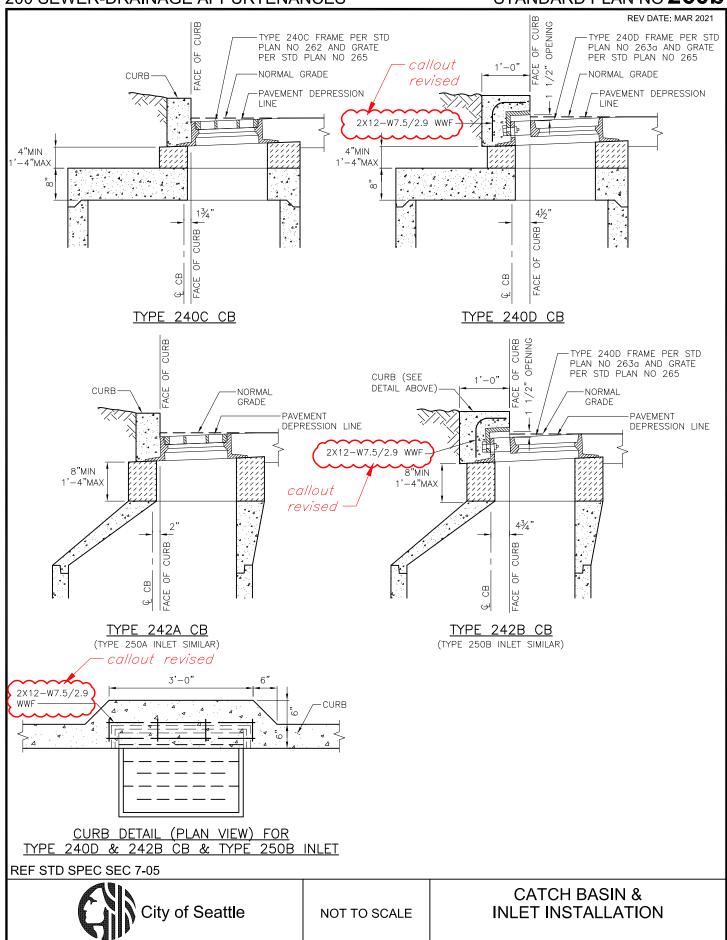
CASTING CB **TYPE FRAME COVER** 240A PER STD PLAN 230 PER STD PLAN 230 240B PER STD PLAN 264 PER STD PLAN 264 240C PER STD PLAN 262 PER STD PLAN 265 240D PER STD PLAN 263A PER STD PLAN 265

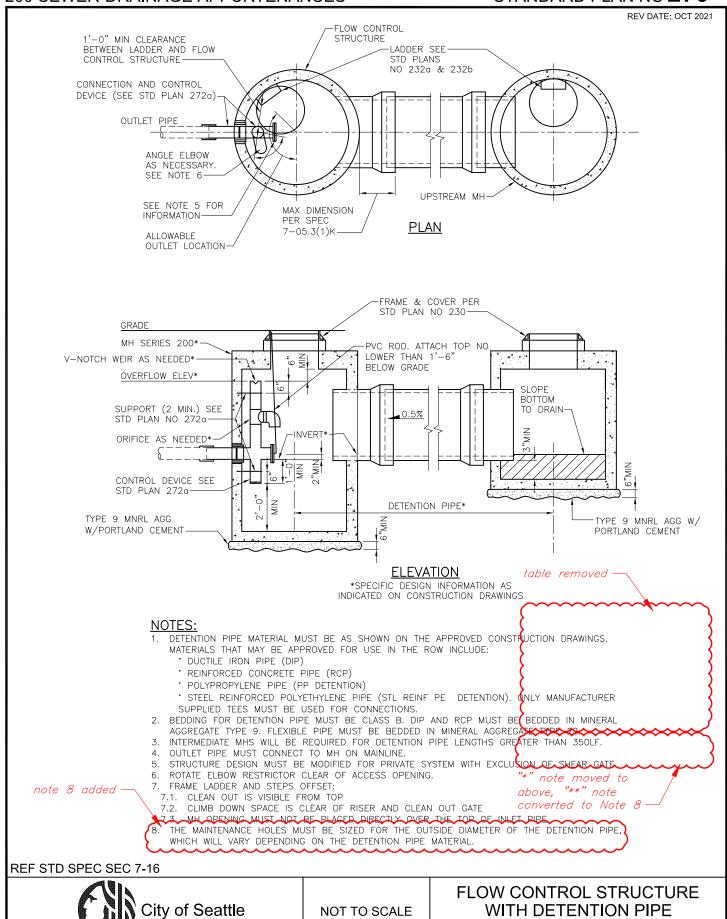
REF STD SPEC SEC 7-05

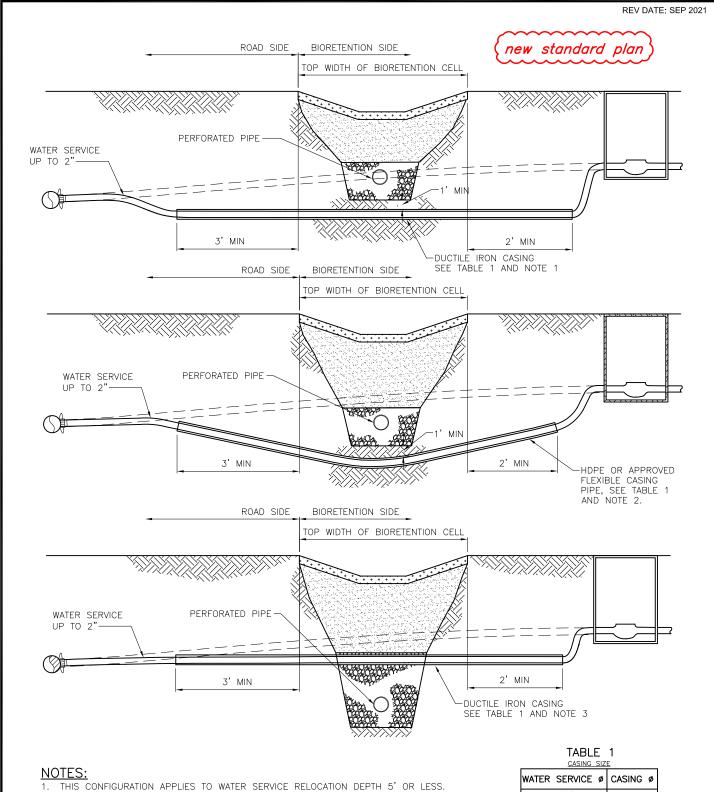


NOT TO SCALE

TYPE 240 CATCH BASIN







- THIS CONFIGURATION APPLIES TO WATER SERVICE RELOCATION DEPTH 3 OR LESS.

 THIS CONFIGURATION APPLIES TO WATER SERVICE RELOCATION DEPTH BETWEEN 5' AND 6'

 THIS CONFIGURATION APPLIES TO WATER SERVICE RELOCATION DEPTH GREATER THAN 6'

 FOR BIORETENTION CELLS WITH LINERS, ANY PENETRATION OF THE LINER MUST BE SEALED

 THIS CONFIGURATION ALSO APPLIES TO OTHER UTILITIES UNLESS THE OTHER UTILITY HAS MORE STRINGENT CLEARANCE REQUIREMENTS.

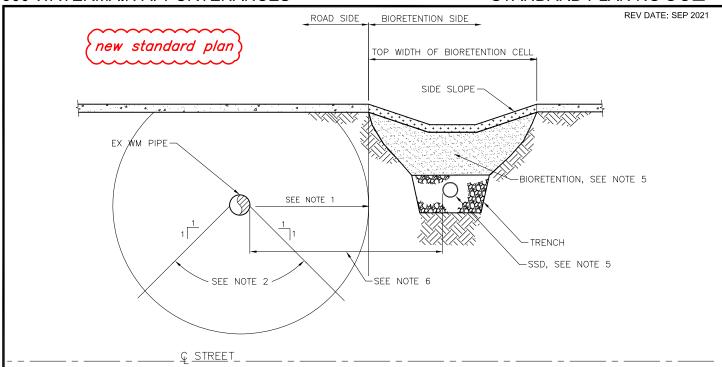
3/4 1.5" 2"

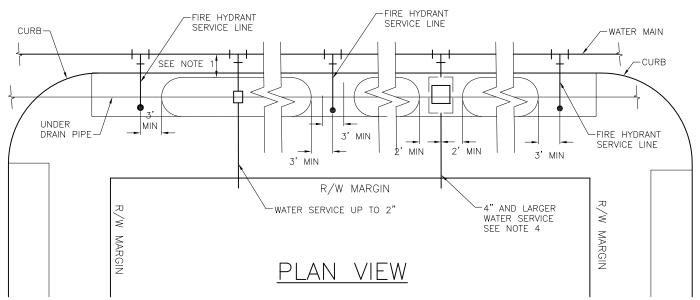
REF STD SPEC SEC 1-07.17



NOT TO SCALE

WATER SERVICE RELOCATION FOR UP TO 2" SERVICE PIPE THROUGH BIORETENTION





NOTES:

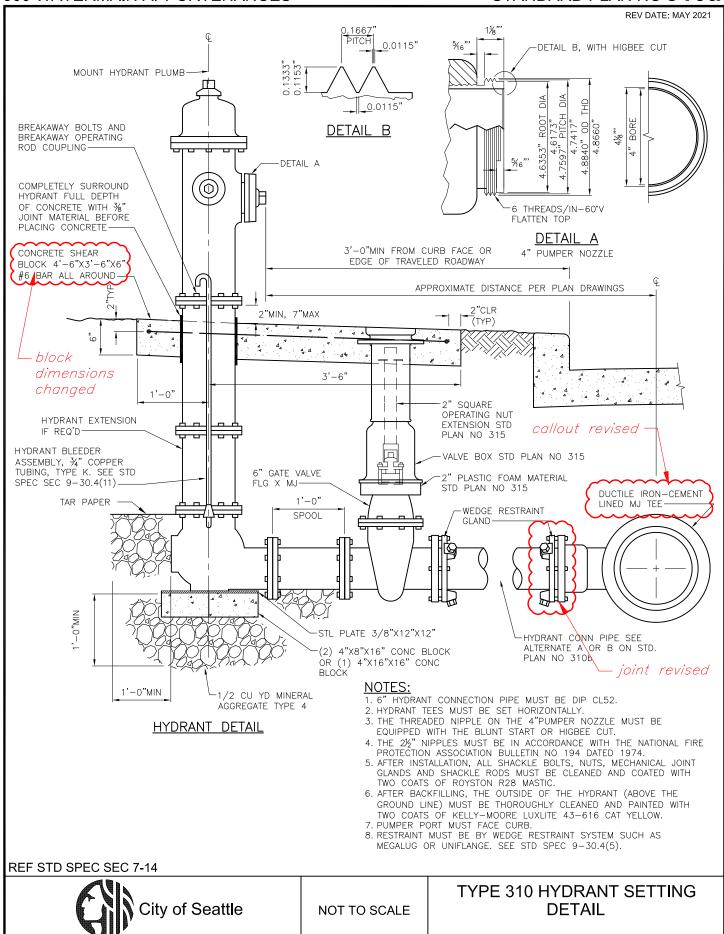
- HORIZONTAL SETBACK DISTANCE FROM THE WATER MAIN (MEASURED FROM THE EDGE OF THE PIPE TO THE EDGE OF ANY BIORETENTION CELL) MUST BE MINIMUM 3.5 FEET FOR WATER MAIN UP TO AND INCLUDING 12"0 WATER MAIN. WATER MAIN LARGER THAN 12"0 MUST BE EVALUATED AND APPROVED ON A CASE BY CASE BASIS BY SEATTLE PUBLIC UTILITIES. IF SOIL WITHIN SETBACK IS DISTURBED A SUPPORT PLAN AND SOIL RE-COMPACTION TO 95% MIN COMPACTION WILL BE REQUIRED. EXCEPTIONS TO THE MINIMUM 3.5' HORIZONTAL SETBACK MUST BE APPROVED BY SEATTLE PUBLIC UTILITIES PLAN REVIEW SECTION AND WATER QUALITY DIVISION. SOIL WITHIN THE ZONE OF INFLUENCE MUST NOT BE DISTURBED IN ORDER TO MAINTAIN STRUCTURAL SUPPORT TO THE WATER MAIN.
- BIORETENTION CELL MUST MAINTAIN 3' MIN CLEARANCE FROM THE EDGE OF ANY EXISTING FIRE HYDRANT SERVICE LINE TO THE EDGE OF THE BIORETENTION. FOR THE FIRE HYDRANT OPERATION THERE MUST BE A 4' MIN CLEARANCE AROUND THE FIRE HYDRANT WHERE NOTHING CAN BE AS TALL AS THE FIRE HYDRANT OPENING NUT. BIORETENTION CELL MUST MAINTAIN 2' MIN CLEARANCE FROM THE EDGE OF THE BIORETENTION TO THE EDGE OF THE EXISTING 4" OR
- LARGER WATER SERVICE LINE OR SERVICE VAULT.
 SEE STANDARD PLAN NO 292, 293A AND 293B FOR BIORETENTION REQUIREMENTS.
- HORIZONTAL SETBACK DISTANCE BETWEEN EXISTING WATER MAIN AND THE BIORETENTION SSD PIPE MUST COMPLY WITH STD PLAN NO 286A. EXCEPTION TO STD PLAN NO 286A PARALLEL INSTALLATION APPLIES IF THE UNDER DRAIN PIPE ONLY RECEIVES TREATED RUNOFF PER STORMWATER CODE REQUIREMENTS FOR WATER QUALITY TREATMENT.

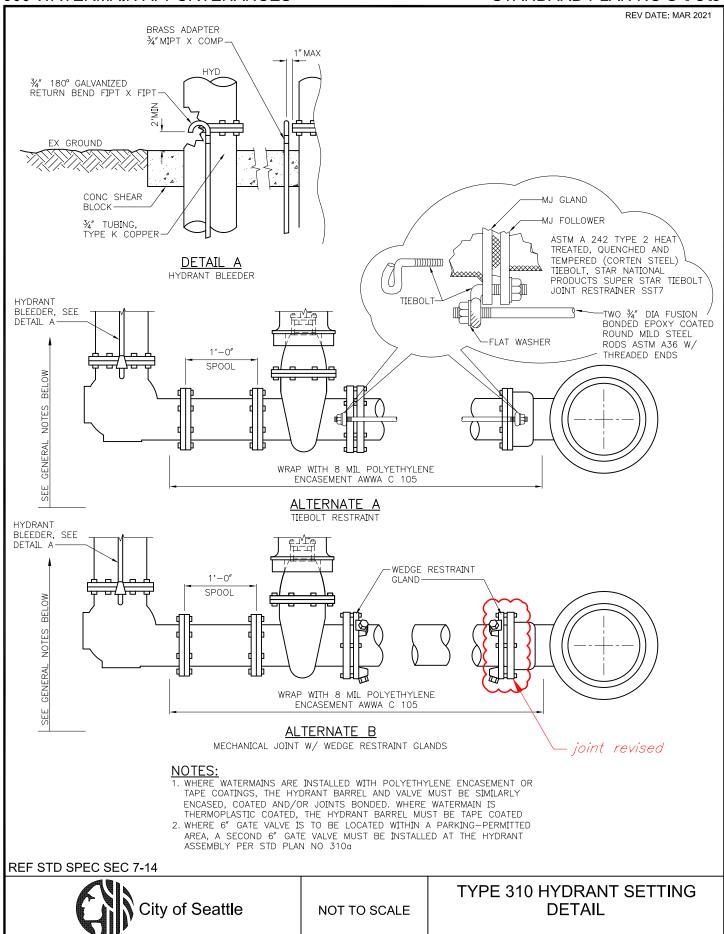
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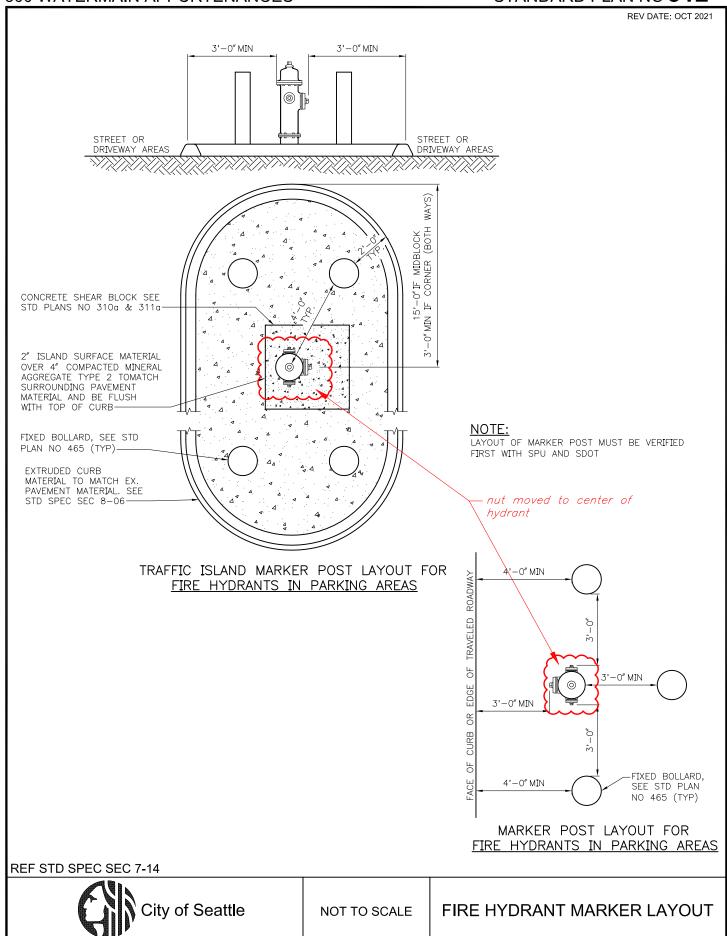


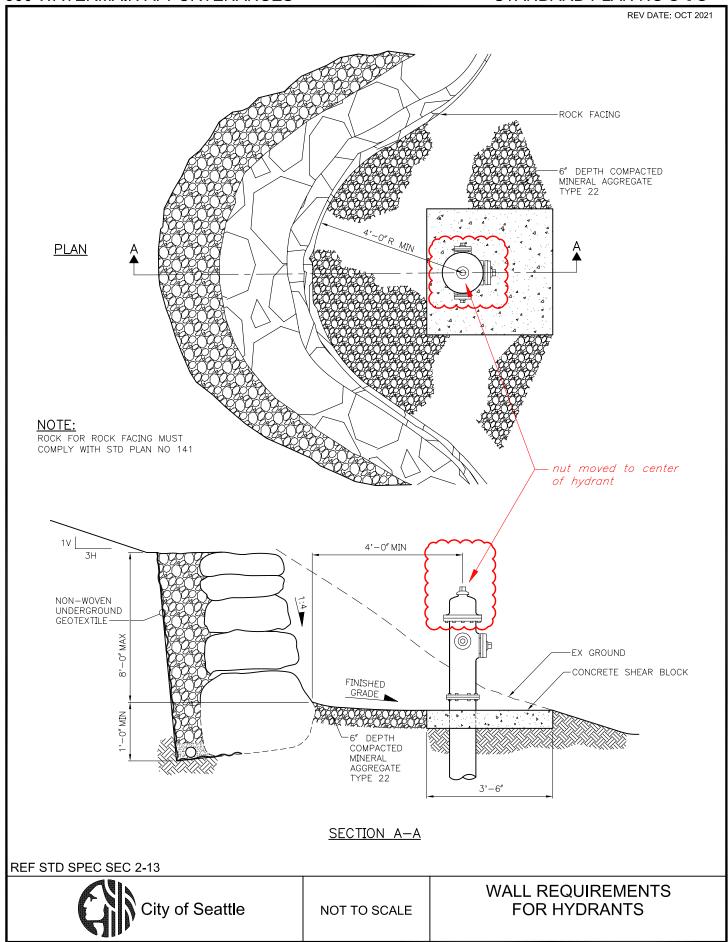
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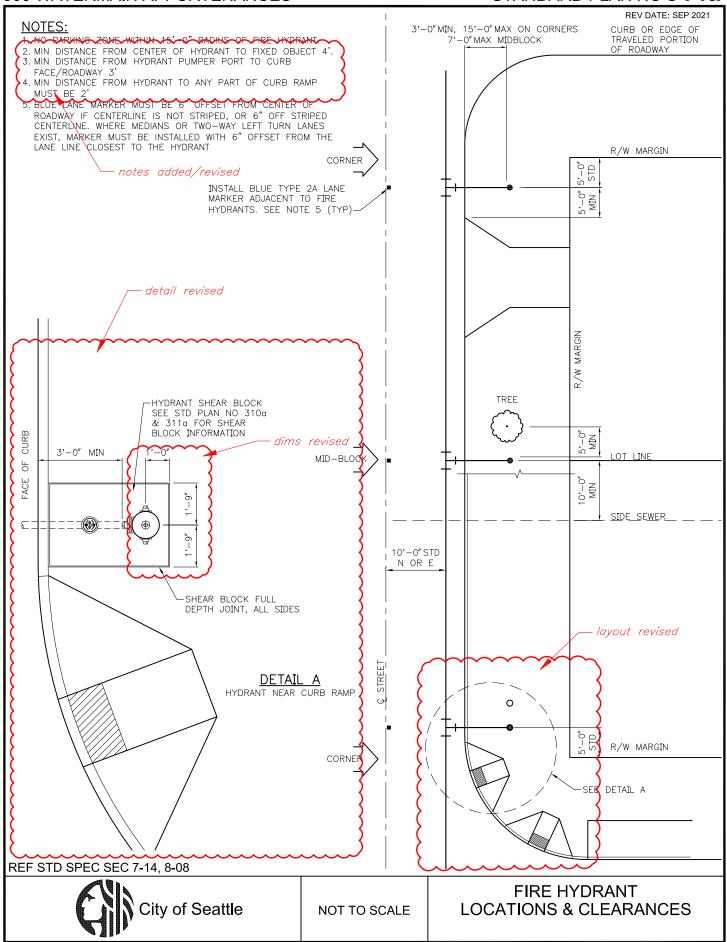
WATERMAIN SETBACK REQUIREMENT FOR C.I. LEAD JOINT AND D.I. SLIP JOINT PIPE

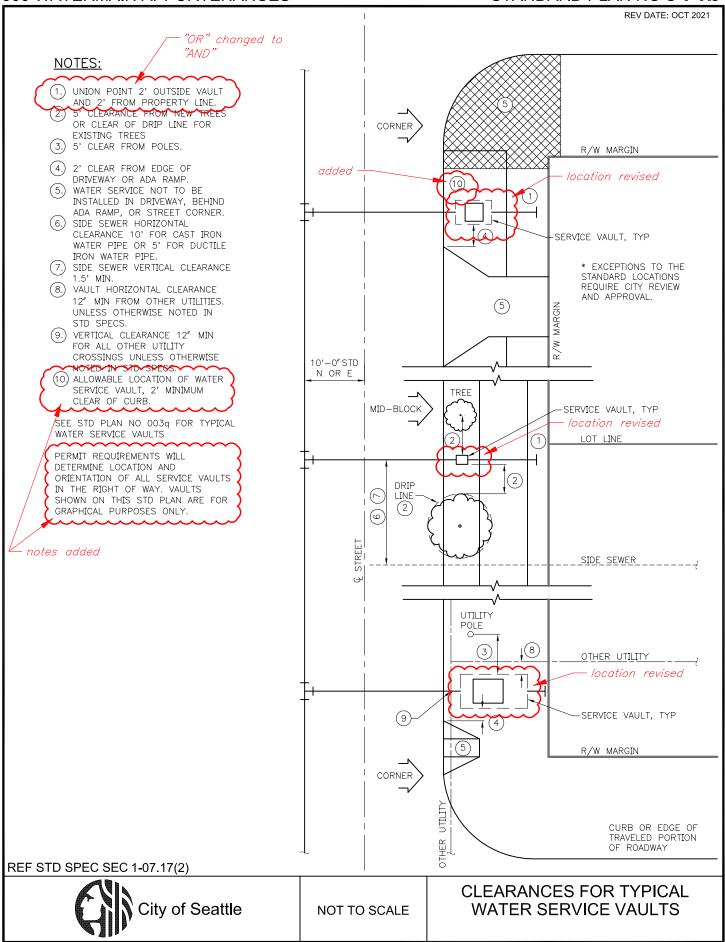


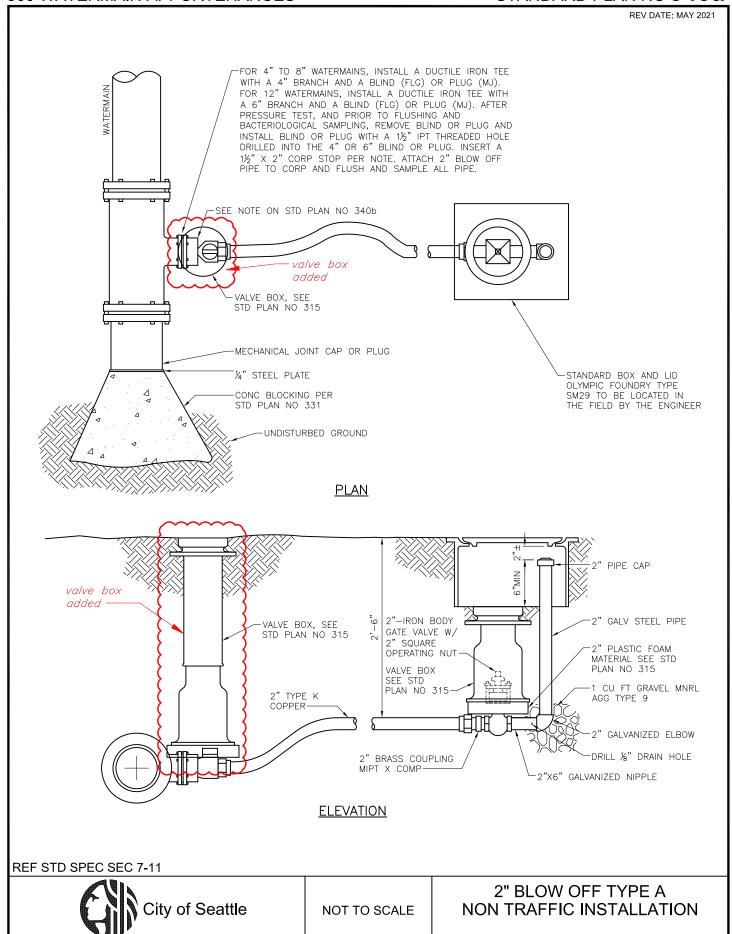


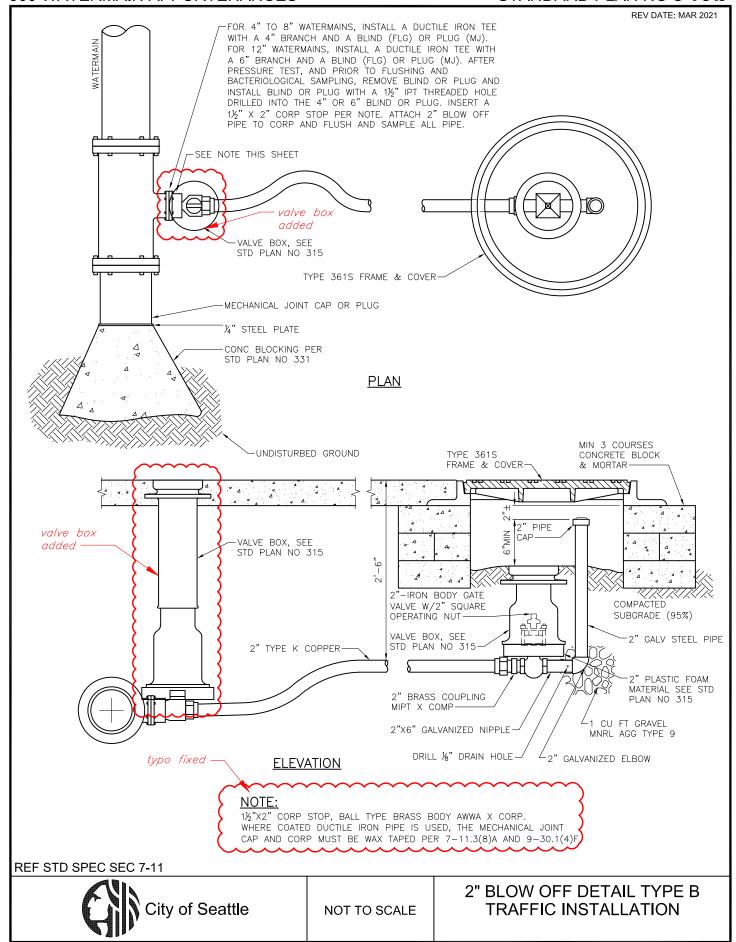


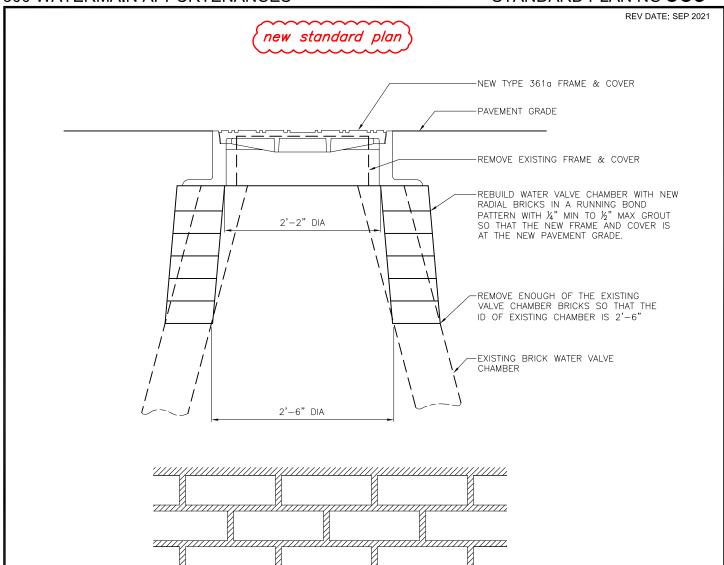












RUNNING BOND PATTERN
GROUT BETWEEN ALL BRICKS

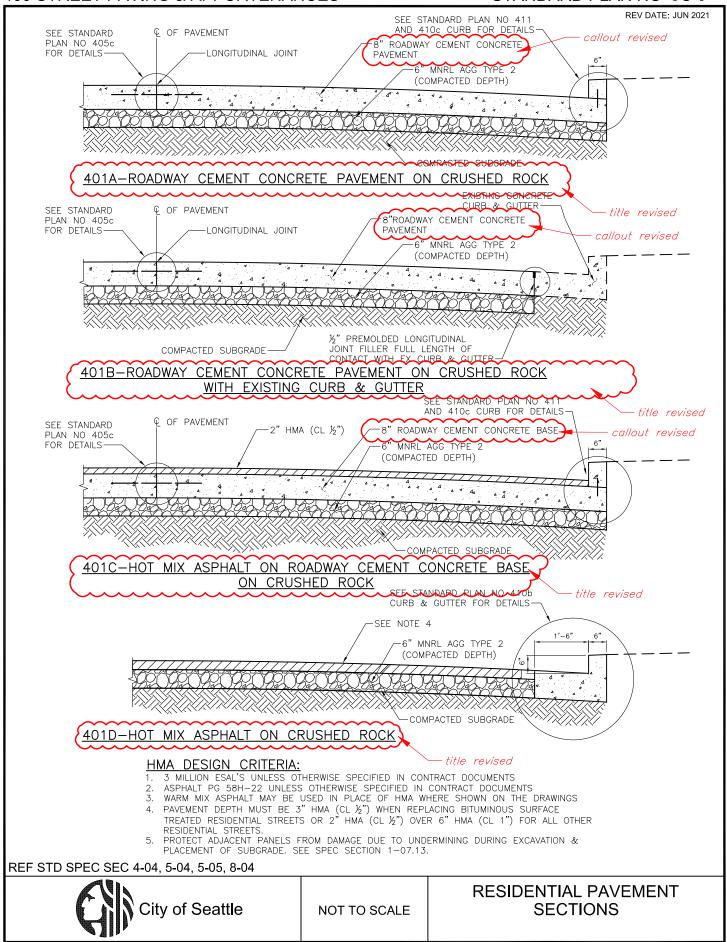
REF STD SPEC SEC 7-20

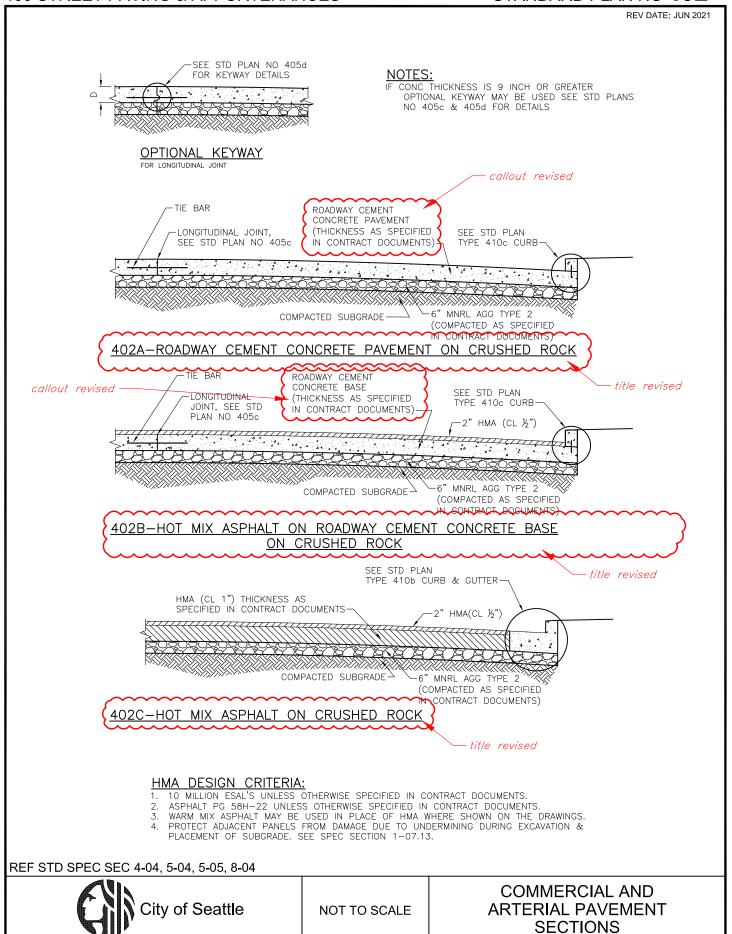


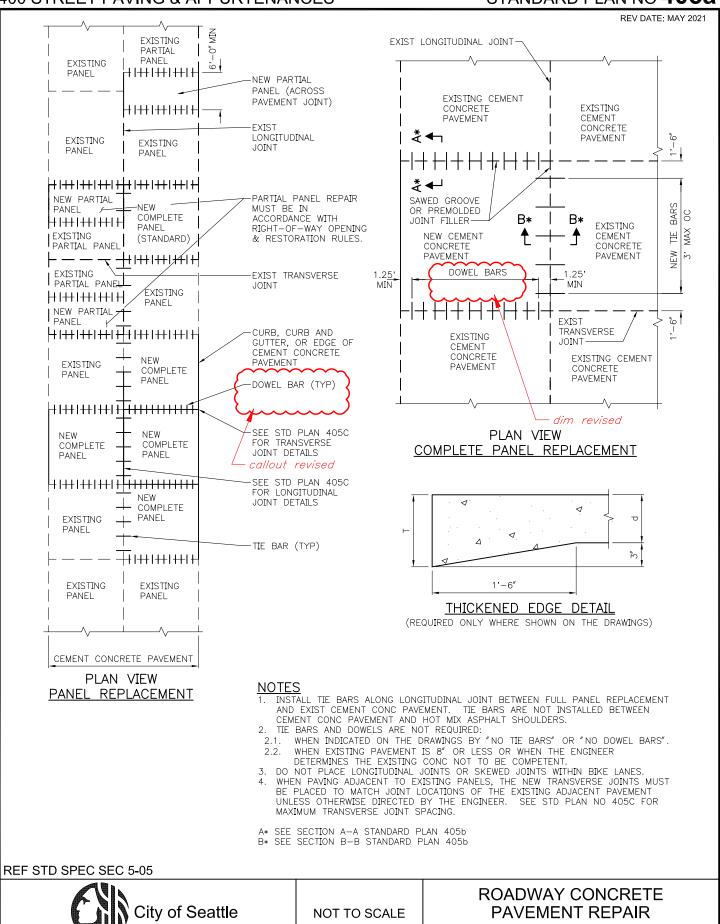
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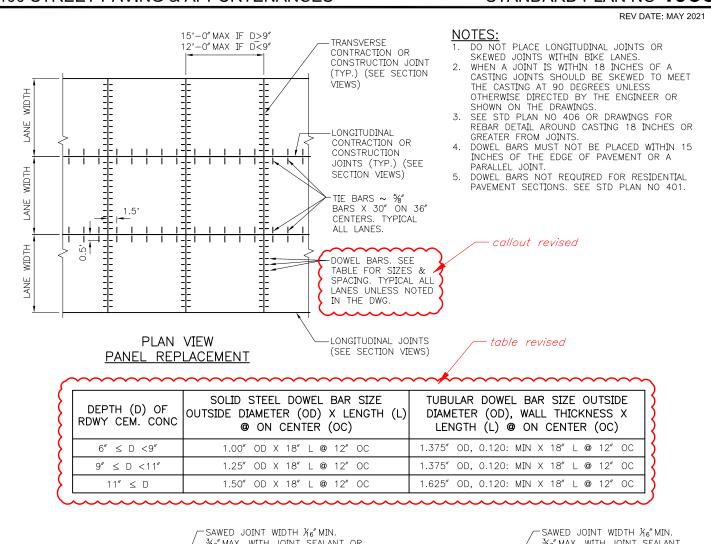
REBUILD EXISTING BRICK WATER VALVE CHAMBER

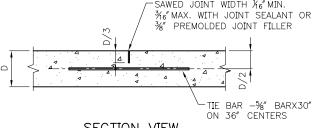
STANDARD PLAN NO 401



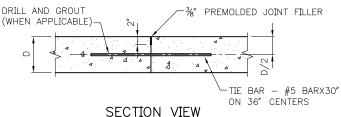




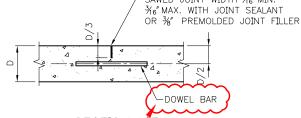




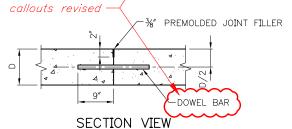
SECTION VIEW LONGITUDINAL CONTRACTION JOINT



LONGITUDINAL CONSTRUCTION JOINT



SECTION VIEW
TRANSVERSE CONTRACTION JOINT



TRANSVERSE CONSTRUCTION JOINT

REF STD SPEC SEC 5-05



NOT TO SCALE

ROADWAY CONCRETE PAVEMENT JOINTS

curb return redrafted to allow for clear space to fall NOTES: 1. RAMP CENTERLINE MUST BE within extended face of curb RAMP CENTERLINE MUST BE RADIAL/PERPENDICULAR TO THE ALIGNMENT OF THE FACE OF CURB. THE SLOPE ON THE LANDING MUST BE A MINIMUM OF 0.5% IN ANY ONE DIRECTION AND MUST NOT EXCEED 2% IN ANY DIRECTION. UPPER LANDING AT THE TOP OF THE CURB RAMP MUST MATCH THE FULL WIDTH OF THE RAMP AND MUST HAVE A MINIMUM DEPTH OF 4'-O". IF THE LANDING IS LIMITED AT THE BACK-OF-SIDEWALK BY A PERMANENT VERTICAL BARRIER, THE DEPTH OF THE TURNING SPACE MUST BE 5'-O" MINIMUM, MEASURED PARALLEL TO THE RUN OF THE CURB RAMP. BUILDING OR OTHER OBSTRUCTION 5. UPPER LANDING ♦ SEE NOTE 2-CLEAR SPACE AT THE BOTTOM OF THE RAMP MUST BE 5-0" MINIMUM IN WIDTH AND MUST EXTEND A MINIMUM DETECTABLE WARNING STD PLAN 422K WIDTH AND MUST EXTEND A MINIMUM OF 4'-O' BEYOND THE RAMP LOWER GRADE BREAK. THE CLEAR SPACE MUST FALL WHOLLY WITHIN THE LEGAL CROSSWALK, MARKED OR UNMARKED. THE CLEAR SPACE MUST FIT BEHIND LINES EXTENDING FROM THE FACE OF CURB RUNNING PARALLEL TO EACH ROADWAY. THERE IS NO ALLOWABLE EXEMPTION FOR MINIMUM CLEAR SPACE REQUIREMENTS AT SHARED DIAGONAL PERPENDICULAR CURB RAMPS S SIDEWALK MAX 10% RAME SEE NOTE THROUGH JOINT (TYP) DIAGONAL PERPENDICULAR CURB RAMPS. WINGS MUST HAVE A MAXIMUM SLOPE OF 10%. WINGS MUST HAVE A BRUSHED FINISH PARALLEL TO THE CURB. THE CONCRETE WALK THICKENED EDGE ALONG THE CURB MUST CONTINUE THROUGH FACH WING. RAMP SURFACE MUST HAVE A HEAVY BROOM BRUSHED SURFACE PARALLEL TO THE CUIRB 3.34 . Stop ુ 34 TO THE CURB. REFER TO DETAILS 422K AND 422L FOR GENERAL NOTES AND TYPICAL SECTIONS. MZ 2% MAX õ 10% MAX SLOPE MAX SLOPE IN Ġ EITHER DIRECTION CLEAR SPACE, SEE NOTE 3 FACE OF CURB EXTENDED (TYP) SHARED DIAGONAL PERPENDICULAR CURB RAMP (TYPE 422F) PAY LIMIT LSCAPE S CW CW CW LSCAPE **REF STD SPEC SEC 8-14** City of Seattle NOT TO SCALE CURB RAMP DETAILS

