

CITY OF



KIRKLAND

108TH AVE NE SEWER AND WATER REPLACEMENT

JOB NO. 48-19-PW

NOVEMBER 25, 2019

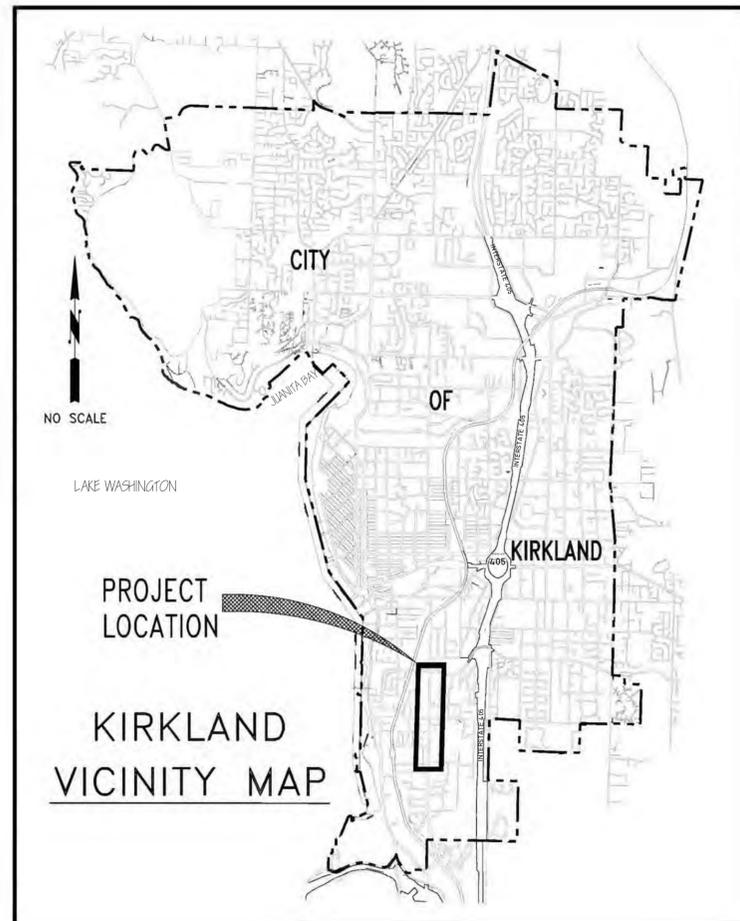
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GENERAL NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO CITY OF KIRKLAND PUBLIC WORKS STANDARDS, CURRENT WSDOT/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION ("STANDARD SPECIFICATIONS"), AND THE BID AND CONTRACT DOCUMENTS MANUAL FOR THE 108TH AVE NE SEWER AND WATER REPLACEMENT PROJECT. AN APPROVED COPY OF THE PLANS SHALL BE ONSITE WHENEVER CONSTRUCTION IS IN PROGRESS. REFERENCES HEREIN TO "PLAN NO. CK-###" ARE TO CITY OF KIRKLAND PRE-APPROVED PLANS (STANDARD DETAILS) AS INCLUDED, AND AS MAY BE AMENDED, ON THE DETAIL SHEETS.
- ANY REVISIONS OF THESE PLANS SHALL BE REVIEWED AND APPROVED BY THE CITY OF KIRKLAND PUBLIC WORKS DEPARTMENT PRIOR TO IMPLEMENTATION IN THE FIELD.
- A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD PRIOR TO THE START OF CONSTRUCTION.
- PROJECT STATIONING IS ALONG ROAD CENTERLINE. RIGHT-OF-WAY AND PROPERTY LINES SHOWN ON THE PLANS ARE APPROXIMATE. THEY ARE BASED ON ASSESSORS MAPS AND EXISTING SURVEY CONTROL.
- FOR DRAWING CLARITY, NOT ALL OVERHEAD UTILITIES ARE SHOWN. APPROXIMATE LOCATIONS OF UNDERGROUND EXISTING UTILITIES HAVE BEEN OBTAINED FROM AVAILABLE RECORDS AND ARE SHOWN FOR CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF THE LOCATIONS SHOWN AND FOR DISCOVERY OF POSSIBLE ADDITIONAL UTILITIES NOT SHOWN SO AS TO AVOID DAMAGE OR DISTURBANCE. THE UNDERGROUND UTILITY LOCATION SERVICE SHALL BE CONTACTED FOR FIELD LOCATION PRIOR TO ANY CONSTRUCTION. THE ENGINEER OR HIS REPRESENTATIVE SHALL BE CONTACTED IF A UTILITY CONFLICT EXISTS. FOR UTILITY LOCATION CALL 1-800-424-5555 OR 811. THE CONTRACTOR SHALL MAINTAIN UTILITY LOCATE MARKINGS THROUGHOUT THE DURATION OF THE PROJECT.
- CONTRACTOR SHALL POTHOLE A MINIMUM OF TWO WORKING DAYS OR 100 FEET AHEAD OF PIPE LAYING OPERATIONS, WHICHEVER IS GREATER, TO DETERMINE THE ACTUAL HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES AND TO DETERMINE IF A CONFLICT EXISTS. IF A CONFLICT EXISTS, THE ENGINEER SHALL BE NOTIFIED PRIOR TO ANY CHANGE IN LINE OR GRADE. SEE SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH PUGET SOUND ENERGY (PSE) PRIOR TO EXCAVATION NEAR GAS MAINS. THE PSE REPRESENTATIVE SHALL (AT A MINIMUM) BE ONSITE FOR CONSTRUCTION AROUND 4 INCH DIAMETER AND LARGER AND/OR HIGH-PRESSURE GAS MAINS.
- STOCKPILING OF CONSTRUCTION MATERIALS IN CITY OF KIRKLAND RIGHT-OF-WAY WITHOUT WRITTEN PERMISSION OF ENGINEER IS PROHIBITED.
- TRAFFIC CONTROL:
 - THE CONTRACTOR SHALL NOTE THAT 108TH AVE NE IS A MAJOR ARTERIAL WITH LIMITED AVAILABLE DETOUR ROUTES IN THE AREA. VEHICULAR ACCESS TO AND THROUGH THE PROJECT AREA SHALL NOT BE INTERRUPTED BY WORK BETWEEN 5:00 AM AND 9:00 AM AND BETWEEN 3:00 PM AND 7:00 PM ON WEEKDAYS. NO WORK SHALL BE COMPLETED ON WEEKENDS OR CITY OF KIRKLAND HOLIDAYS. LANE SHIFT SHALL BE CONSIDERED A TRAFFIC INTERRUPTION.
 - THE CONTRACTOR SHALL PREPARE A DETAILED, PHASED TRAFFIC CONTROL PLAN, PREPARED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF WASHINGTON, FOR ALL WORK ALONG 108TH AVE NE.
 - THE PLAN SHALL ACCOMMODATE BICYCLE AND PEDESTRIAN TRAFFIC, THE NEEDS OF ADJACENT BUSINESSES AND SCHOOLS, AND MAY NOT ROUTE ANY TRAFFIC THROUGH NORTHWEST UNIVERSITY OR OTHER ADJACENT PROPERTIES.
 - THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE CITY OF KIRKLAND FOR REVIEW AND APPROVAL PRIOR TO THE PRE-CONSTRUCTION MEETING. NO WORK SHALL BEGIN PRIOR TO APPROVAL OF THE TRAFFIC CONTROL PLAN.
 - THE CONTRACTOR'S TRAFFIC CONTROL PLAN SHALL INCORPORATE ALL ELEMENTS SHOWN ON THESE PLANS AT A MINIMUM, WITH ADDITIONAL MEASURES AS NECESSARY TO COMPLY WITH ALL REGULATORY REQUIREMENTS AND THE MUTCD.
 - TO THE EXTENT NECESSARY SEPARATE PLANS SHALL BE PREPARED FOR WATER WORK AND SEWER WORK.
- THE TEMPORARY EROSION/SEDIMENTATION CONTROLS (TESC) SHALL BE INSTALLED, INSPECTED BY THE CITY INSPECTOR, AND OPERATING BEFORE START OF EXCAVATION. THESE CONTROLS SHALL BE MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING ARE COMPLETE.
- ALL EXISTING TREES SHALL BE PRESERVED EXCEPT WHERE REMOVAL IS SPECIFICALLY DIRECTED ON THE PLANS. IF ANY CONFLICTS ARE NOTED, COORDINATE WITH THE CITY INSPECTOR.
- CONTRACTOR SHALL NOTIFY THE CITY INSPECTOR IMMEDIATELY OF POOR SOILS, STANDING WATER IN EXCAVATIONS, AND/OR ANY DISCREPANCIES NOTED IN THE PLANS.
- CONTRACTOR SHALL MAINTAIN A CLEAN AND LEGIBLE SET OF "RECORD DRAWINGS" ON A FULL-SIZED PLAN SET REFLECTING AS-CONSTRUCTED CONDITIONS. PROVIDE RECORD DRAWINGS TO CITY AT COMPLETION OF CONSTRUCTION.
- AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL REQUEST A PUNCH LIST FROM THE CITY INSPECTOR PER SECTION 1-05.11 OF THE STANDARD SPECIFICATIONS. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY OF KIRKLAND PRIOR TO ACCEPTANCE OF THE PROJECT.

BID SCHEDULE DESCRIPTIONS

REFER TO PLAN SCHEDULE LIMIT NOTES AND PROJECT MANUAL BID SCHEDULE AND MEASUREMENT AND PAYMENT DESCRIPTIONS FOR COMPLETE DESCRIPTION OF WORK PER SCHEDULE.

SCHEDULE SUMMARY OF WORK

- | SCHEDULE | SUMMARY OF WORK |
|----------|--|
| A | BASE BID; 8" AND 12" SEWER MAIN REPLACEMENT ALONG 108TH AVE NE, FROM NE 53RD ST TO NE 68TH ST, INCLUDING SIDE SEWER RECONNECTION AND REPLACEMENT, AND TRENCH SURFACE RESTORATION. |
| B | BASE BID; 12" WATER MAIN REPLACEMENT ALONG 108TH AVE NE, FROM NE 60TH ST TO NE 68TH ST, INCLUDING WATER SERVICE RECONNECTION AND REPLACEMENT, AND TRENCH SURFACE RESTORATION. |
| C | BASE BID; FULL DEPTH ASPHALT PAVEMENT PLANING AND 3" OVERLAY OF 108TH AVE NE, WHERE DISTURBED FOR COMPLETION OF SCHEDULES A AND B, INCLUDING CURB AND GUTTER REPLACEMENT WHERE INDICATED AND REQUIRED AND REPLACEMENT OF CURB RAMP WHERE INDICATED. PLANING AND OVERLAY SHALL BE FULL WIDTH OF 108TH AVE NE FROM SOUTH SIDE OF NE 60TH ST TO NORTH SIDE OF NE 68TH ST, AND EAST ALONG NE 68TH ST AS NOTED ON PLANS. PLANING AND OVERLAY OF 108TH AVE NE SOUTH OF NE 60TH ST TO SOUTH END OF PROJECT SHALL BE FULL WIDTH OF NORTHBOUND AND LEFT-TURN LANES. |



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CITY OF KIRKLAND

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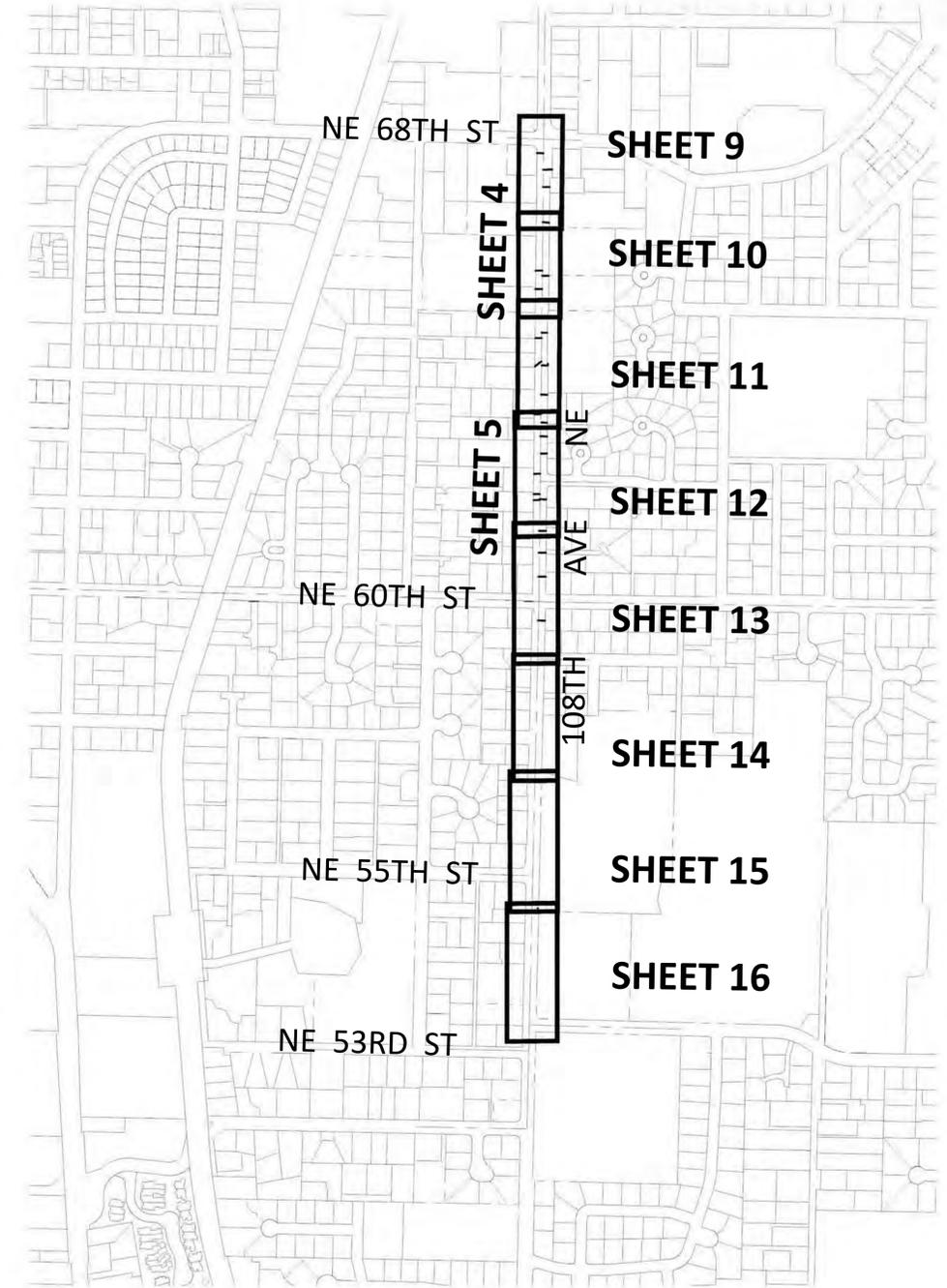
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108TH AVE NE SEWER AND WATER REPLACEMENT
GENERAL NOTES, LEGEND
AND BID SCHEDULES

SHEET: 2 / 36
SCALE: N/A
FILENAME: 801802 - DESIGN

LEGEND

PROPOSED	EXISTING	DESCRIPTION
		WATER METER
		WATER VALVE
		FIRE HYDRANT
		SLEEVE/COUPLING
		MAIL BOX
		POWER POLE W/ GUY
		POWER VAULT
		SANITARY SEWER AND MANHOLE
		SANITARY SEWER CLEAN OUT
		STORM DRAIN AND CATCH BASIN
		STORM DRAIN MANHOLE
		SIGN
		TELE PEDESTAL
		GAS LINE AND GAS VALVE
		WATER
		RIGHT OF WAY
		PROPERTY LINE
		CENTER LINE
		EDGE OF PAVEMENT
		EDGE OF GRAVEL
		OVERHEAD POWER
		UNDERGROUND POWER
		UNDERGROUND TELEPHONE
		OVERHEAD TELEPHONE
		FENCE WIRE/WOOD
		DECIDUOUS AND CONIFEROUS TREES
		SHRUBS AND BUSHES
		CROSSWALK OR STOP BAR STRIPING
		CENTERLINE AND LANE STRIPING
		BORE LOG LOCATION
		DETECTABLE WARNING SURFACE
		OVERLAY LIMITS
		TRAFFIC CONTROL INDUCTIVE LOOPS
		BIKE LANE SYMBOL



SHEET INDEX MAP



GENERAL WATER NOTES

1. THERE SHALL BE NO WATER MAIN CONSTRUCTION ON A SATURDAY, SUNDAY, OR HOLIDAYS OBSERVED BY THE CITY OF KIRKLAND. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CITY INSPECTOR 24 HOURS IN ADVANCE OF BACKFILLING ALL WATER MAIN CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING AS-BUILT DRAWINGS OF ALL CONSTRUCTION NOT INSTALLED ACCORDING TO THE APPROVED PLANS (THIS DOES NOT GIVE APPROVAL FOR AS-BUILT CONSTRUCTION). CONTRACTOR SHALL MAINTAIN ACCESS TO ALL WATER MAIN VALVES, METERS, AND APPURTENANCES THROUGHOUT CONSTRUCTION.
2. CONSTRUCTION SHALL BE PLANNED AND SEQUENCED TO MINIMIZE THE NUMBER OF WATER MAIN SHUTDOWNS AND NUMBER OF CUSTOMERS OUT OF WATER. THE CONTRACTOR SHALL CONTACT THE CITY OF KIRKLAND DEPARTMENT OF PUBLIC WORKS FIVE (5) WORKING DAYS PRIOR TO ANY WORK REQUIRING THE SHUTDOWN OF EXISTING WATER MAINS. THE CONTRACTOR IS REQUIRED TO GIVE TWO (2) WORKING DAYS NOTICE TO ALL CUSTOMERS AFFECTED BY A WATER SHUTDOWN, AS DESCRIBED IN SECTION 7-09.3(19)B OF THE SPECIAL PROVISIONS (NOTICES AND MAPS FOR THE SHUTDOWN WILL BE PROVIDED BY THE WATER DIVISION). SHUTDOWNS SHALL BE SCHEDULED FOR MONDAYS, TUESDAYS, WEDNESDAYS, AND THURSDAYS BETWEEN 8:30 A.M. AND 2:00 P.M. DURING PACIFIC TIME. SHUTDOWNS AFFECTING INSTITUTIONS SHALL BE SCHEDULED AT NIGHT. ONLY CITY PERSONNEL MAY OPERATE WATER VALVES FOR SHUTDOWNS, FLUSHING, OR RECHARGING OF WATER LINES. TWO (2) WORKING DAYS NOTICE TO THE CITY OF KIRKLAND WATER DIVISION IS REQUIRED TO SCHEDULE FILLS.
3. IT IS ANTICIPATED THAT ALL OR PARTS OF BOTH THE EXISTING SYSTEM AND NEW WATER MAINS MAY NEED TO REMAIN IN SERVICE IN ORDER TO MAINTAIN SERVICE TO CUSTOMERS. NEW DI PIPE CANNOT BE USED UNTIL SATISFACTORILY PRESSURE TESTED AND PURITY TESTED. TEMPORARY CONNECTION BETWEEN THE EXISTING AND THE NEW MAINS SHALL BE MADE USING APPROVED BACKFLOW DEVICE, PER PRE-APPROVED PLAN CK-W.10.
4. SOME OF THE EXISTING WATER MAINS AND APPURTENANCES ARE CONSTRUCTED OF ASBESTOS CEMENT (AC). CONTRACTOR SHALL TAKE ALL PRECAUTIONS REQUIRED UNDER APPLICABLE LAWS WHEN HANDLING THESE MATERIALS. IN GENERAL, AC PIPE SHALL BE LEFT INTACT AND ABANDONED IN PLACE. AC PIPE WITH LESS THAN 36 INCHES OF TOTAL COVER SHALL BE REMOVED. WHERE SEGMENTS OF EXISTING AC PIPE MUST BE REMOVED TO FACILITATE CONNECTIONS, ABANDONMENT, OR CROSSINGS, THEY SHALL BE CUT WITH APPROPRIATE TOOLS, LEFT IN THE EXCAVATION, AND CRUSHED EXCEPT WHERE NOTED ON THE PLANS OR WHERE DIRECTED BY THE CITY INSPECTOR. WHERE CRUSHED PIPE PIECES ARE LEFT IN THE EXCAVATION BACKFILL MATERIAL SHALL BE THOROUGHLY COMPACTED AROUND THEM TO ELIMINATE ANY VOIDS. SEE SECTION 07-09 OF THE SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
5. ALL CONTRACTORS WORKING WITH AC PIPE MUST BE STATE-CERTIFIED. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF WAC 296-62-077. THE CONTRACTOR SHALL PROVIDE PROTECTIVE CLOTHING AND EQUIPMENT (COVERALLS, GLOVES, BOOTS, HEAD COVERING, GOGGLES, RESPIRATORS, ETC.) TO CREWS WORKING WITH ASBESTOS CEMENT PIPE IN ORDER TO ASSURE THE WORKER'S EXPOSURE TO ASBESTOS MATERIAL IS AT OR BELOW THE LIMITS PRESCRIBED IN WAC 296-62-07705.
6. THE WATER MAIN SHALL BE CLASS 52 DUCTILE IRON PIPE CONFORMING TO ANSI/AWWA C151/A21.51, LATEST REVISION. THE PIPE SHALL BE 1/16" CEMENT LINED AND SEALED IN ACCORDANCE WITH ANSI/AWWA C104/A21.4, LATEST REVISION. THE DUCTILE IRON PIPE FITTINGS SHALL BE CLASS 250 AS PER ANSI/AWWA C110/A21.10, LATEST REVISION. PIPE BEDDING SHALL BE COMPACTED TO 95 PERCENT OF ITS MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT.
7. A MINIMUM OF FIVE FEET HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ALL WATER FACILITIES AND UNDERGROUND POWER AND TELEPHONE FACILITIES, UNLESS OTHERWISE SHOWN ON PLANS OR APPROVED BY THE CITY INSPECTOR. SEPARATION FROM THE SEWER SHALL BE PER THE PRE-APPROVED PLAN CK-W.01.
8. UNLESS IT IS NECESSARY TO CLEAR EXISTING UTILITIES, THE WATER MAIN SHOULD BE INSTALLED WITH UNDER 60" OF COVER BUT NEVER LESS THAN 36" (FOR 8-INCH AND UNDER PIPE) OR 48" (FOR 12-INCH AND OVER) OF COVER TO THE TOP OF THE PIPE. ANY DEVIATIONS FROM THIS SHALL BE APPROVED BY THE CITY PRIOR TO START OF CONSTRUCTION ACTIVITIES.
9. ALL MATERIAL UTILIZED SHALL BE NEW, NO PARTS SHALL BE REUSED. IF A FITTING, EITHER DURING INSTALLATION OR AFTER, IS FOUND TO BE DEFECTIVE IN ANY WAY AS DETERMINED BY THE CITY, THE CONTRACTOR SHALL REPLACE THE ENTIRE FITTING AND NOT JUST THE DEFECTIVE COMPONENT.
10. TIE-INS UTILIZING A BELL AND/OR "WEDDING RING" ARE NOT ALLOWED.
11. CONTRACTOR SHALL REVIEW EACH LOCATION OF WATER SERVICE AND FIRE HYDRANT REPLACEMENT TO DETERMINE IF AN EXISTING PUBLIC OR PRIVATE IRRIGATION SYSTEM (POWER AND/OR WATER PIPING) MAY BE DISTURBED IN THE COURSE OF THE WORK. PRIOR TO CONSTRUCTION IN THAT AREA, CONTRACTOR SHALL HAVE PROPERTY OWNER AND CITY INSPECTOR CONFIRM CONDITION OF EXISTING SYSTEM AND WHETHER IT OPERATES OR NOT.
12. PRIOR TO ANY EXCAVATION, CONTRACTOR SHALL HAVE ON THE JOBSITE SUCH FITTINGS AND REPAIR MATERIALS AS NEEDED TO REPAIR DAMAGE TO THE EXISTING AC WATER MAIN AND SERVICES.
13. WHERE EXISTING WATER MAINS ARE ABANDONED INTACT ADJACENT TO CONNECTIONS BETWEEN THE NEW AND EXISTING WATER MAINS, AND AT ANY OTHER BREAK OR OPENING OUT THE EXISTING WATER MAIN, THE CONTRACTOR SHALL MAKE A CLEAN CUT AND FIT IT WITH A MECHANICAL CAP. EXISTING WATER SERVICE LINES SHALL BE REMOVED FROM THE METER TO THE CORPORATION STOP AND THE CORPORATION STOP CLOSED. ANY DAMAGE TO THE WATER MAIN SHALL BE FITTED WITH A REPAIR CLAMP AT THE CONTRACTOR'S EXPENSE.
14. MEGA-LUGS (OR SIMILAR MECHANICAL JOINT RESTRAINT PRODUCT) SHALL BE REQUIRED ON ALL MECHANICAL JOINTS.
15. THRUST BLOCKS ARE REQUIRED FOR ALL FITTINGS. CONTRACTOR SHALL PROVIDE THRUST BLOCKS AS REQUIRED TO RESTRAIN THE PIPING SYSTEM UNDER NORMAL OPERATING CONDITIONS AND TEST CONDITIONS PER PRE-APPROVED PLANS CK-W.02 AND CK-W.03. ALL FITTINGS AND VALVES AT TIE-INS OR BUILD OUTS FOR TIE-INS SHALL HAVE MEGA-LUGS (OR SIMILAR MECHANICAL JOINT RESTRAINT PRODUCT) AND CONCRETE THRUST BLOCKS. PRIOR TO BLOCKING, THE FITTINGS SHALL BE WRAPPED IN VISQUEEN. ALL CONCRETE THRUST BLOCKS SHALL BE HAND MIXED PRIOR TO PLACEMENT IN THE TRENCH OR DELIVERED BY READY-MIX TRUCK. IF CONCRETE THRUST BLOCKS WILL NOT BE FULLY CURED AT THE TIME THE WATER SYSTEM IS PRESSURIZED, THE CONTRACTOR SHALL PROVIDE TEMPORARY THRUST RESTRAINT.
16. PRESSURE AND PURITY TESTING SHALL BE DONE IN THE PRESENCE OF, AND UNDER THE SUPERVISION OF, A CITY INSPECTOR. THE CONTRACTOR SHALL PROVIDE ALL PLUGS AND TEMPORARY BLOWOUT ASSEMBLIES FOR PRESSURE TESTING AND DISINFECTION PRIOR TO FINAL TIE-IN. NO CONNECTION SHALL BE MADE BETWEEN THE NEW MAIN AND THE EXISTING MAINS UNTIL THE NEW PIPING HAS BEEN DISINFECTED, FLUSHED, AND PASSED BOTH PRESSURE AND PURITY TESTING. TEMPORARY PLUGS AND BLOCKING SHALL BE INSTALLED AT THE POINTS OF CONNECTION TO THE EXISTING SYSTEM. FOR CONSTRUCTION OF NEW WATER MAIN, THE SERVICES, HYDRANTS, ETC., WILL BE TESTED WITH THE MAIN. PRESSURE TESTING WILL REQUIRE A MINIMUM OF 200 PSI FOR 15 MINUTES WITH NO PRESSURE DROP. UPON SATISFACTORY COMPLETION OF THE PRESSURE TEST, THE LINE SHALL BE DISINFECTED, FLUSHED, AND THEN A SAMPLE SHALL BE TAKEN FOR PURITY TESTING BY THE CITY INSPECTOR, WITH A SECOND SAMPLE TAKEN A MINIMUM OF 16 HOURS LATER.
17. WATER SERVICES SHALL BE TESTED WITH THE WATER MAIN TO WHICH THEY ARE ATTACHED.
18. ALL CONNECTIONS TO EXISTING WATER MAINS AND ALL TESTING, DISINFECTION, AND FLUSHING SHALL BE PERFORMED WITH THE CITY INSPECTOR PRESENT.
19. NEW WATER MAINS ARE TO BE TESTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS PRIOR TO CONNECTING TO THE EXISTING WATER SYSTEM. THE USE OF AN APPROVED BACKFLOW DEVICE IS REQUIRED TO PREVENT CROSS-CONNECTIONS DURING TESTING, PER PRE-APPROVED PLAN CK-W.10.
20. WATER MAINS SHALL BE PUT INTO ACTIVE SERVICE WITHIN SEVEN (7) DAYS OF THE DATE UPON WHICH THE ACCEPTABLE PURITY TEST SAMPLE WAS TAKEN. IF THE WATER MAIN IS NOT IN SERVICE BY THIS TIME, ADDITIONAL FLUSHING AND TESTING WILL BE REQUIRED AT THE CONTRACTOR'S EXPENSE.
21. A MAXIMUM OF ONE WATER SYSTEM TIE-IN SHALL BE PERMITTED EACH WORKING DAY, UNLESS MULTIPLE TIE-INS ARE BENEFICIAL TO THE OPERATION OF THE WATER SYSTEM, AS DETERMINED BY THE CITY INSPECTOR.
22. FOLLOWING APPROVAL FROM THE CITY INSPECTOR, THE CONTRACTOR SHALL CONNECT THE NEW WATER SERVICES TO EXISTING WATER SERVICE LINES ON THE BACK SIDE OF EACH WATER METER, INCLUDING EXTENSIONS REQUIRED BEYOND THE EXISTING METER AS SHOWN ON DRAWINGS. CONTRACTOR SHALL PROVIDE ADAPTERS FROM THE STANDARD NEW WATER SERVICE MATERIALS IF THE EXISTING SERVICE LINE IS SMALLER THAN THE NEW SERVICE LINE AS DESCRIBED IN THE CITY OF KIRKLAND PRE-APPROVED PLAN CK-W.18.
23. RE-USE EXISTING WATER METERS EXCEPT WHERE THE CITY INSPECTOR DIRECTS THAT A NEW METER PROVIDED BY THE CITY OF KIRKLAND SHALL BE USED.
24. AFTER THE NEW MAIN IS IN SERVICE, EXISTING VALVES TO BE ABANDONED SHALL BE SHUT AND VALVE BOX REMOVED. VALVE SHALL BE PLUGGED OR BLIND FLANGED AS SHOWN. AT CITY'S DISCRETION SOME OF ALL VALVES SHALL BE REMOVED AND ABANDONED PIPE CAPPED, PLUGGED, OR ENDS FILLED WITH CONCRETE.
25. ONCE THE NEW MAIN AND HYDRANTS ARE PLACED IN SERVICE, THE CONTRACTOR SHALL REMOVE THE EXISTING HYDRANTS AND FOOT VALVES AND DISPOSE OF AS DIRECTED BY THE CITY INSPECTOR. BLIND FLANGE EXISTING TEE. ALL ENDS OF ABANDONED PIPE SHALL BE PLUGGED WITH CONCRETE AND CAPPED.
26. REPLACEMENT SERVICES ARE TO FOLLOW EXISTING SERVICE ALIGNMENT, WHERE METER IS NOT NOTED TO BE MOVED. ALL REPLACEMENT SERVICE LINES ARE DRAWN TO AND OFFSET FROM EXISTING ALIGNMENT FOR GRAPHICAL CLARITY. ALL SERVICES ARE TO BE PERPENDICULAR FROM MAINS AND REPLACEMENT, SERVICE PIPING SHALL FOLLOW EXISTING ALIGNMENT AS CLOSELY AS FEASIBLE. SERVICES OF 1.5" OR LARGER SIZE SHALL BE REPLACED TO A LOCATION NEXT TO THE EXISTING SERVICE, AS DETERMINED BY THE CITY.

GENERAL SEWER NOTES

1. CONTRACTOR SHALL ENSURE SEWER SERVICE AND COLLECTION/CONVEYANCE OPERATIONS IN THE SIDE SEWERS, LATERALS AND SEWER MAIN IN THE PROJECT AREA ARE NOT INTERRUPTED. THIS WILL REQUIRE INSTALLATION OF TEMPORARY EQUIPMENT AND APPURTENANCES. TEMPORARY CONNECTIONS WILL BE NECESSARY FOR PORTIONS OF THE WORK. CONTRACTOR SHALL COORDINATE THE SCHEDULE OF THE TEMPORARY CONNECTIONS WITH THE CITY INSPECTOR AND SHALL PROVIDE A MINIMUM NOTICE OF FIVE WORKING DAYS BEFORE INSTALLATION OF TEMPORARY CONNECTIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO MAINTAIN SEWER SERVICE AT ALL TIMES AND TO CONTAIN ALL WASTEWATER WITHIN THE EXISTING SEWER SYSTEM OR TEMPORARY TANK-TYPE VEHICLES FOR BYPASS HAULING. CONTRACTOR SHALL SUBMIT PLAN FOR TEMPORARY SEWER SERVICE TO CITY INSPECTOR FOR APPROVAL PRIOR TO THE PRECONSTRUCTION MEETING. NO WORK SHALL BEGIN PRIOR TO APPROVAL OF THE SEWER BYPASS PUMPING PLAN. SEE SECTION 8-26/7-17.3(1) OF THE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. SEWERMAIN BYPASS PLUG AND BYPASS LAYOUT SHALL BE PER CITY OF KIRKLAND STANDARD PLAN NO. CK-S.08 AND THE STANDARD SPECIFICATIONS.
2. SEWER REPLACEMENT WORK WILL REQUIRE CROSSING OF EXISTING UTILITIES, INCLUDING WATER MAINS AND SERVICES, GAS MAINS AND SERVICES, STORM DRAINS, COMMUNICATION LINES AND DUCT BANKS, ETC. CONTRACTOR SHALL PROTECT EXISTING MAINS AND SERVICES IN PLACE, INCLUDING FURNISHING AND REMOVAL OF TEMPORARY SUPPORT SYSTEMS AS NECESSARY. SEE GENERAL NOTE 6, SHEET 2.
3. CONTRACTOR SHALL REVIEW EACH LOCATION OF SIDE SEWER CONNECTION/REPLACEMENT AND CLEANOUT INSTALLATION TO DETERMINE IF AN EXISTING PUBLIC OR PRIVATE IRRIGATION SYSTEM (POWER AND/OR WATER PIPING) MAY BE DISTURBED IN THE COURSE OF THE WORK. PRIOR TO CONSTRUCTION IN THAT AREA, CONTRACTOR SHALL HAVE PROPERTY OWNER AND CITY INSPECTOR CONFIRM CONDITION OF EXISTING SYSTEM AND WHETHER IT OPERATES OR NOT.
4. NEW CONNECTIONS TO EXISTING MANHOLES OR SEWER LINES SHALL BE SEALED OFF UNTIL UPSTREAM CONSTRUCTION IS FINISHED, TESTED, CLEANED, AND ACCEPTED. ALL CONSTRUCTION DEBRIS AND WATER SHALL BE REMOVED PRIOR TO OPENING THE SEAL.
5. ALL MANHOLES SHALL CONFORM TO WSDOT/APWA STANDARDS, ECCENTRIC CONES WITH MANUFACTURER-APPROVED GASKETS AND 1/2" POLYPROPYLENE-ENCAPSULATED SAFETY STEPS AND LADDERS. CONE SECTIONS SHALL BE ROTATED TO PLACE LIDS AS FAR FROM VEHICLE WHEEL PATHS AS POSSIBLE. CONTRACTOR SHALL COORDINATE WITH THE CITY INSPECTOR PRIOR TO FINAL PLACEMENT OF CONE SECTIONS, FLAT TOPS, AND CASTINGS. COORDINATE LOCATION OF LADDER RUNGS WITH MANHOLE COVER. ALL MANHOLES SHALL HAVE CAST IRON RINGS AND DUCTILE IRON COVERS. LIDS SHALL HAVE 2" RAISED LETTERS MARKED "SEWER." ALL CLEANOUTS SHALL HAVE CAST IRON RINGS AND COVERS MARKED "CO" THAT ARE IN PAVED AREAS.
6. CONTRACTOR SHALL ADJUST ALL MANHOLE LIDS AND CLEANOUT LIDS TO MATCH FINAL ASPHALT ELEVATIONS IN ROADWAYS OR GROUND ELEVATIONS IN LANDSCAPED AREAS.
7. SLOPES SHOWN ON GRAVITY SEWER PROFILES ARE BASED ON MANHOLE CENTER TO CENTER DISTANCES AND ARE SHOWN FOR CONVENIENCE. THE PIPE INVERT ELEVATIONS SHOWN ON THE PROFILES REPRESENT THE PROJECTED ELEVATION AT THE CENTER OF THE MANHOLE AND SHALL GOVERN FOR PIPE INSTALLATION. SUCH INVERTS DO NOT INDICATE OR DETERMINE ELEVATION OF WALL PENETRATIONS.
8. ALL PVC SEWER PIPE AND FITTINGS SHALL MEET THE REQUIREMENTS OF ASTM SPECIFICATIONS D-3034 FOR 4" TO 12" DIAMETER. PIPE SHALL BE SDR-35 AND SHALL CONFORM TO STANDARD SPECIFICATIONS. BEDDING AND BACKFILL SHALL CONFORM TO STANDARD SPECIFICATIONS.
9. SIDE SEWER TEE LOCATION AND STATIONING ARE APPROXIMATE AND BASED OFF OF RECORD DRAWINGS AND/OR VIDEO INSPECTION RECORDS (MEASURED UPSTREAM OF EACH MANHOLE). ORIENTATION TO EDGE OF RIGHT-OF-WAY, AS SHOWN, IS ASSUMED AND ACTUALLY IS UNKNOWN, CONTRACTOR TO FIELD VERIFY. CONTRACTOR SHALL POTHOLE EXISTING SIDE SEWERS AT THE EDGE OF RIGHT-OF-WAY AND SET NEW SEWER MAINLINE CONNECTIONS SUCH THAT NEW SIDE SEWERS IN THE RIGHT-OF-WAY ARE PERPENDICULAR TO THE SEWER MAINLINE, UNLESS A LONGER ALIGNMENT IS NECESSARY TO PROVIDE THE MINIMUM REQUIRED SLOPE. MINIMUM SLOPE FOR SIDE SEWERS SHALL BE TWO PERCENT (2%).
10. EXISTING SIDE SEWERS CONSTRUCTED OF PIPE MATERIAL OTHER THAN PVC SHALL BE REPLACED FROM THE MAIN TO THE PROPERTY LINE PER CITY STANDARD DETAILS. EXISTING PVC SIDE SEWERS SHALL BE RECONNECTED TO REPLACEMENT PVC SIDE SEWER STUBS WITH RIGID BODY GASKETED COUPLING (ROMAC 501 OR EQUAL).
11. ALL SIDE SEWERS SHALL BE TESTED FOR ACCEPTANCE AT THE SAME TIME THE MAIN SEWER IS TESTED. SIDE SEWER LOCATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION AND BACKFILLING. ALL SIDE SEWERS SHALL HAVE A CLEANOUT AND TEST TEE INSTALLED. NUMBER AND LOCATION OF SIDE SEWERS SHOWN ARE APPROXIMATE ONLY AND MAY BE CHANGED AS REQUIRED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE CITY INSPECTOR WHEN EXACT LOCATIONS ARE DETERMINED AND PROVIDE THE CITY INSPECTOR WITH AN AS-BUILT.
12. ALL MAIN-LINE TRENCHES SHALL BE COMPACTED PRIOR TO TESTING SEWER LINES FOR ACCEPTANCE.
13. PVC SEWER PIPE SHALL BE TESTED FOR DEFLECTION ACCORDING TO THE STANDARD SPECIFICATIONS. ALL NEW SEWER MAINS SHALL BE VIDEO INSPECTED PRIOR TO FINAL ACCEPTANCE. PRESSURE TESTING OF GRAVITY SEWER MAINS SHALL CONFORM TO THE FOLLOWING STANDARD: AIR TESTING WILL REQUIRE A MINIMUM OF 4 PSI FOR 15 MINUTES WITH NO PRESSURE DROP.

KEY NOTES - RESTORATION

1. PAVEMENT TRENCH RESTORATION PER PRE-APPROVED PLANS.
2. RESTORE EX. GRAVEL SURFACING WHERE DISTURBED TO MATCH EX. GRADE.
3. REPLACE DISTURBED CONCRETE CURB & GUTTER FROM NEAREST JOINT TO JOINT PER PRE-APPROVED PLAN CK-R.17.
4. REPLACE DISTURBED SIDEWALK SECTION FROM NEAREST JOINT TO JOINT PER PRE-APPROVED PLAN CK-R.23.
5. REPLACE DISTURBED DRIVEWAYS AND ADA RAMPS PER PRE-APPROVED PLAN CK-R.21 AND PLANS. SIDEWALKS ABUTTING DRIVEWAYS SHALL BE 6" THICK PER CK-R.23.
6. REPLACE EX. MEDIAN ISLAND PER PLAN DETAILS, SHEETS 17 AND 18.
7. REPLACE DISTURBED OR ADD TRAFFIC CONTROL INDUCTIVE LOOPS PER CITY REQUIREMENTS.
8. PLANING AND 3" OVERLAY LIMIT BEYOND SEWER REPLACEMENT WORK AREA (SCHEDULE C). PLANE FULL DEPTH AND ALONG ALL CURB AND GUTTER PER PRE-APPROVED PLANS. AT INTERSECTIONS WHERE CURB RAMPS ARE REPLACED EXTEND OVERLAY ON INTERSECTING STREETS TO INCLUDE AREAS OF CURB AND GUTTER REPLACEMENT AND ADJACENT PAVEMENT DISTURBANCE. (SCHEDULE C) SEE PLANS FOR LIMIT OF OVERLAY WHERE NOT TO EX. CURB AND GUTTER.
9. RESTORE ANY DISTURBED PAVEMENT MARKING PER PRE-APPROVED PLAN CK-R.31.
10. PLACE CROSSWALK STRIPING PER PRE-APPROVED PLAN CK-R.28 FOR CONTROLLED (I.E. STOP) APPROACHES OR CK-R.28B FOR UNCONTROLLED APPROACHES. REMOVE EXISTING IF EXISTING.
11. REPLACE ALL DISTURBED EX. STRIPING INCLUDING STOP BARS AND CROSSWALKS. MARKING IN NORTHBOUND LANE AT FIRE STATION EXIT SHALL BE THERMOPLASTIC.
12. RESTORE AND UPDATE ANY DISTURBED BICYCLE LANE MARKINGS PER PRE-APPROVED PLANS CK-R.34, CK-R.35, AND CK-R.36.
13. GROUND WATER MONITORING WELL. DECOMMISSION AND ABANDON PER WAC 173-160. RESTORE SURFACE WITH TRENCH PATCH WORK.
14. REPLACE EX. TRAFFIC DETECTOR LOOP WITH 3" DIAMETER LOOP AND RECONNECT TO STUB OUT UNDER CURB TO WEST.
15. RESTORE DISTURBED SURFACING TO MATCH EXISTING CONDITIONS.
16. REPLACE WATER VALVE BOX TOP AND COVER PER PRE APPROVED PLAN CK-W.35.

GENERAL RESTORATION NOTES

1. CONTRACTOR SHALL SURVEY AND OFFSET EXISTING SURVEY MONUMENTS AND PROPERTY CORNERS PRIOR TO CONSTRUCTION AND SHALL REPLACE THEM AS REQUIRED BY STATE LAW. CONTRACTOR SHALL PROVIDE A LETTER SIGNED BY A WASHINGTON-LICENSED PROFESSIONAL LAND SURVEYOR STATING THAT ALL SUCH FEATURES DISTURBED DURING CONSTRUCTION WERE REESTABLISHED IN ACCORDANCE WITH APPLICABLE STATE LAW AND LISTING THE APPROXIMATE PROJECT STATION AND OFFSET OF EACH MONUMENT AND PROPERTY CORNER. REESTABLISHED MONUMENTS SHALL BE BROUGHT TO CURRENT CITY STANDARDS PER THE PROJECT DETAILS. SEE SECTION 1-07.16 OF STANDARD SPECIFICATIONS.
2. ALL TRENCH BACKFILL AND PAVEMENT SUBGRADE SHALL BE COMPACTED TO 95 PERCENT MAXIMUM DENSITY AS DEFINED BY ASTM 1557 IN ROADWAYS, ROADWAY SHOULDERS, ROADWAY PRISM, AND DRIVEWAYS, AND 90 PERCENT MAXIMUM DENSITY AS DEFINED BY ASTM 1557 IN UNPAVED AREAS. ALL PIPE ZONE COMPACTION SHALL BE 95 PERCENT. HMA SHALL BE COMPACTED TO 91% MAXIMUM DENSITY PER WSDOT FOP FOR AASHTO T729.
3. ALL PRE-APPROVED PLAN REFERENCES TO ASPHALT CONCRETE, CLASS B, OR ATB SHALL BE INTERPRETED AS HOT MIX ASPHALT. REFER TO THE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR HOT MIX ASPHALT.
4. IN THE CASE OF CONSTRUCTION REQUIRING MAILBOXES TO BE MOVED OR REARRANGED, THE CONTRACTOR SHALL COORDINATE WITH THE U.S. POSTAL SERVICE FOR THE NEW OR TEMPORARY LOCATION OF THE MAILBOX STRUCTURE.
5. CONTRACTOR SHALL REPLACE CURBS, GUTTERS, SIDEWALKS, ADA RAMPS, DRIVEWAYS, AND OTHER PAVED SURFACES DAMAGED BY CONSTRUCTION. PAYMENT WILL ONLY BE MADE WITHIN THE LIMITS DESCRIBED IN THE STANDARD SPECIFICATIONS. DAMAGED SECTIONS OUTSIDE OF THESE LIMITS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. REPLACEMENT SECTIONS SHALL MEET THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS AND PRE-APPROVED PLANS, UNLESS A MODIFICATION IS ALLOWED TO MATCH EXISTING CONDITIONS. ALL SUCH ALLOWED MODIFICATIONS MUST BE APPROVED IN WRITING BY THE CITY INSPECTOR PRIOR TO CONSTRUCTION.
6. ALL CONCRETE FOR SIDEWALKS AND CURB AND GUTTER MUST BE 4,000 PSI MINIMUM (5-3/4 SACK MIX).
7. ANY ROADWAY SIGNAGE OR STRIPING REMOVED OR TEMPORARILY MOVED BY THE CONTRACTOR SHALL BE RESTORED BY END OF DAY IT IS REMOVED SO AS TO MEET THE CURRENT CITY STANDARDS.
8. ANY SIGNS WITHIN THE RIGHT-OF-WAY THAT ARE DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REINSTALLED PER PRE-APPROVED PLAN CK-R.43. EXISTING POST AND SIGN MAY BE REUSED IF ACCEPTED BY THE CITY INSPECTOR.
9. CONTRACTOR SHALL REPAIR ANY DAMAGE TO ADJACENT PROPERTIES TO A CONDITION EQUAL TO OR BETTER THAN EXISTING, AS DETERMINED BY THE CITY INSPECTOR AND PROPERTY OWNER.

KEY NOTES - WATER

1. REPLACE 1" SERVICE IN PLANTERS PER PRE-APPROVED PLAN CK-W-21 AND CK-W.18, TYP. SEE WATER GENERAL NOTE 26.
2. REPLACE 1" SERVICE IN CONCRETE PER PRE-APPROVED PLAN CK-W-23 AND CK-W.18, TYP. SEE WATER GENERAL NOTE 26.
3. REPLACE LARGE SERVICE IN PLANTER PER PRE-APPROVED PLAN CK-W-22 AND CK-W.19, TYP. SEE WATER GENERAL NOTE 26.
4. REPLACE LARGE SERVICE IN CONCRETE PER PRE-APPROVED PLAN CK-W-25 AND CK-W.19, TYP. SEE WATER GENERAL NOTE 26.
5. 1.5" SERVICE.
6. 2" SERVICE.
7. NEAR SIDE SERVICE.
8. FAR SIDE SERVICE.
9. TRAFFIC RATED BOX HALF IN WALK, HALF IN PLANTER.
10. SAWCUT CONCRETE, DO NOT DISTURB EX. RAILING. REPLACE THE TWO EXISTING METER BOXES WITH FOUR INDIVIDUAL BOXES, ONE PER METER. SHIFT SERVICES SOUTH TO AVOID MANHOLE.
11. MOVE METER BOX TO BACK EDGE OF SIDEWALK, STAYING WITHIN RIGHT OF WAY.
12. WHEN OUT OF SERVICE, CLOSE VALVE AND REMOVE VALVE BOX.

KEY NOTES - SEWER

1. RECONNECT EX. SIDE SEWER TO SEWER TO MANHOLE. RECONNECT TO EX. SIDE SEWER PER DETAIL 1, SHEET 21. ADD CLEANOUT AT PROPERTY LINE. CONNECT TO MANHOLE AS REQUIRED FOR SEWER MAIN CONNECTIONS.
2. REPLACE EX. SIDE SEWER WITH 6" PVC (UNLESS EX. IS 8" THEN WITH 8") TO PROPERTY LINE AND RECONNECT AT SEWER MAIN OR MANHOLE. ADD CLEANOUT AT PROPERTY LINE IF NOT EXISTING. RECONNECT TO EX. SIDE SEWER PER DETAIL 1, SHEET 21. CONNECT TO MANHOLE AS REQUIRED FOR SEWER MAIN CONNECTIONS (IF EX. SIDE SEWER IS FOUND TO BE PVC, COMPLETE RECONNECTION PER KEY NOTE 1). SIDE SEWER, CLEANOUT AND CONCRETE/PAVEMENT RESTORATION PER PRE-APPROVED PLANS, AS MODIFIED HEREIN. RESTORE EX. LANDSCAPING TO MATCH EX. CONDITIONS.
3. CONNECT EX. SEWER(S) AND/OR SIDE SEWER(S) TO REPLACEMENT MANHOLE WITH CORED PENETRATION AND KOR-N-SEAL BOOT, MINIMUM 2" PVC (MATCH PIPE SIZE) AND COUPLING (ROMAC 501 OR APPROVED EQUAL) TO CONNECT TO EX. PIPE.
4. EX. SPOT REPAIR, PVC WITH COUPLING, PRESUMED
5. AS-BUILTS SHOW EX. TEE 7' NORTH OF THE TV LOCATION. CONTRACTOR TO FIELD LOCATE EX. TEE.
6. PLUG OR CAP EX. UNUSED SIDE SEWER AT DOWNSTREAM END IN MAIN TRENCH
7. REPLACE EX. 6" OR 8" SEWER TO EDGE OF RIGHT OF WAY OR OVERLAY LIMIT AS SHOWN WITH SAME SIZE PVC SEWER ON EX. GRADE. CONNECT TO EX. WITH RIGID BODY COUPLING (ROMAC 501 OR APPROVED EQUAL).



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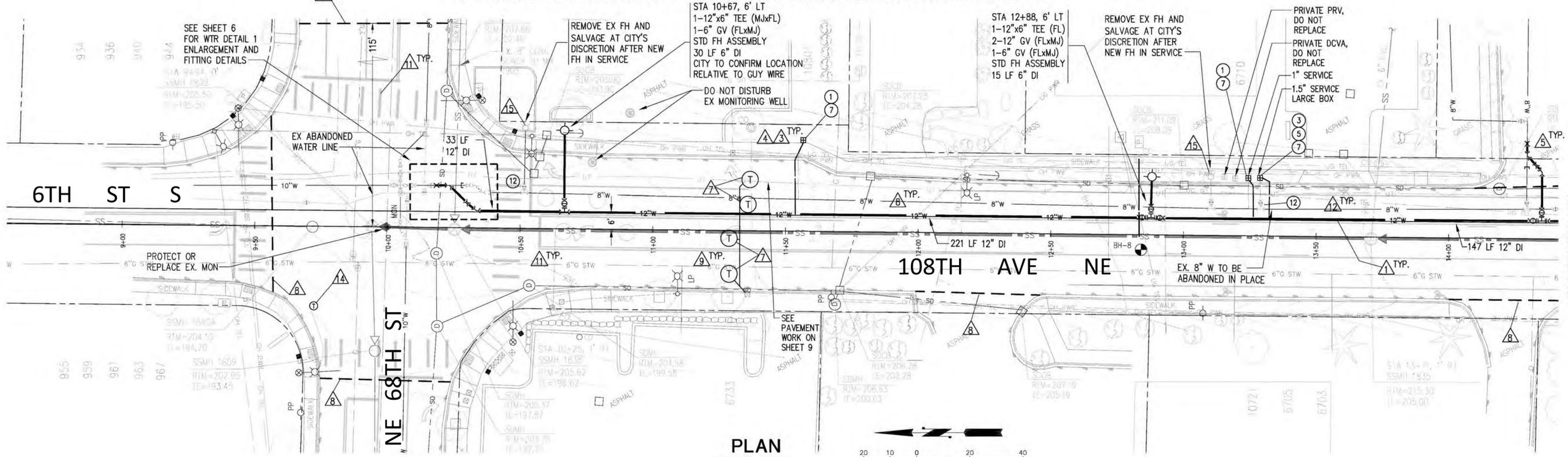
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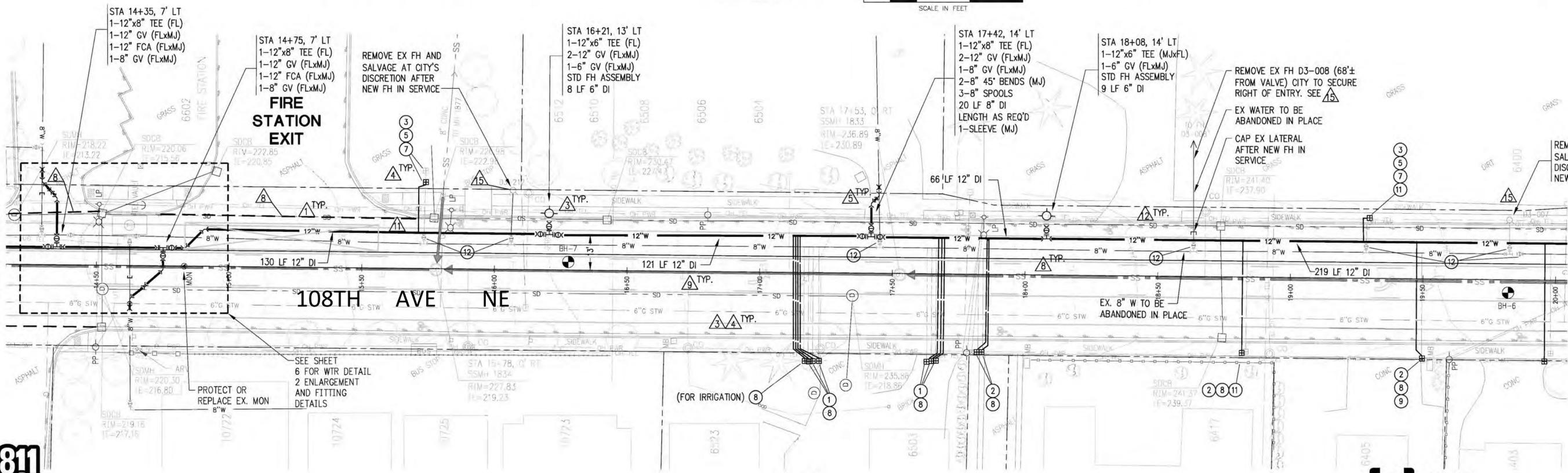
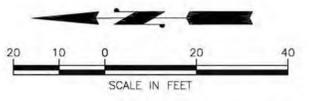
108TH AVE NE SEWER AND WATER REPLACEMENT
GENERAL WATER, SEWER AND RESTORATION NOTES
KEY NOTES WATER, SEWER AND RESTORATION

SHEET:
3 / 36
SCALE:
N/A
FILENAME:
801802 - DESIGN

A PORTION OF SECTION 17, TOWNSHIP 25 NORTH, RANGE 5 EAST, W.M., KING COUNTY, WASHINGTON



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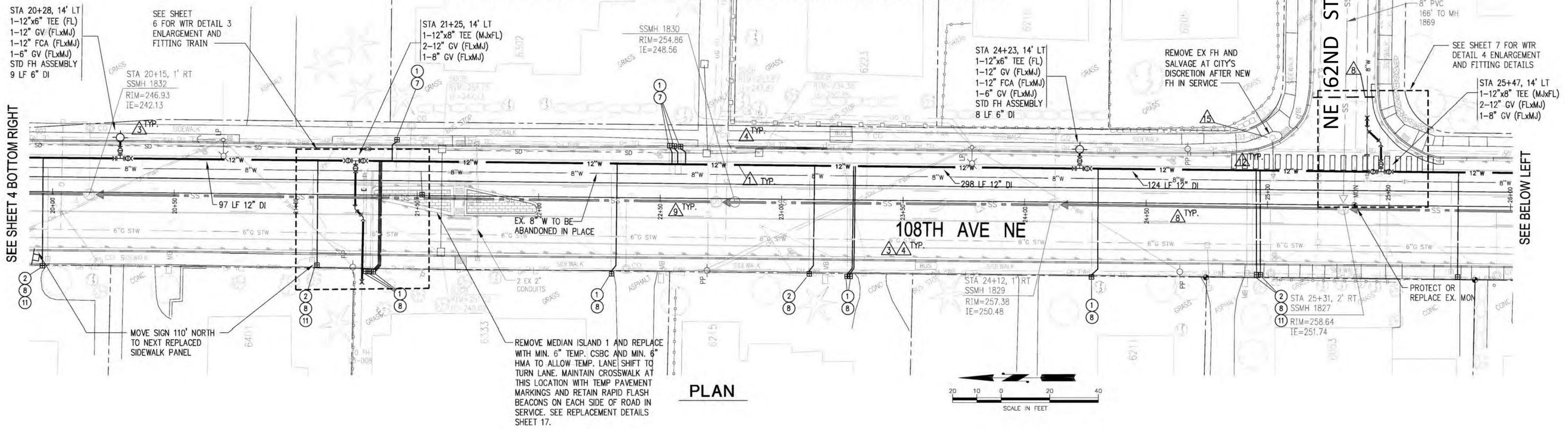
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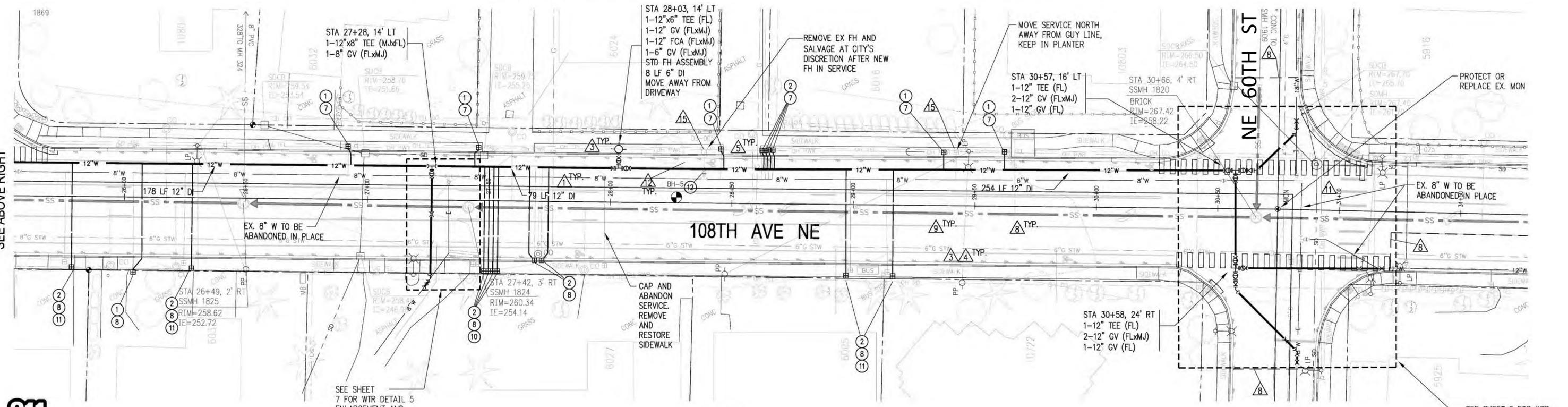
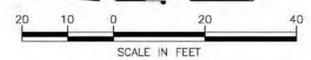
108TH AVE NE SEWER AND WATER REPLACEMENT
WATER PLAN
 STA 10+00 TO STA 20+00

SHEET: **4 / 36**
 SCALE: SEE GRAPHIC SCALE
 FILENAME: 801802 - DESIGN

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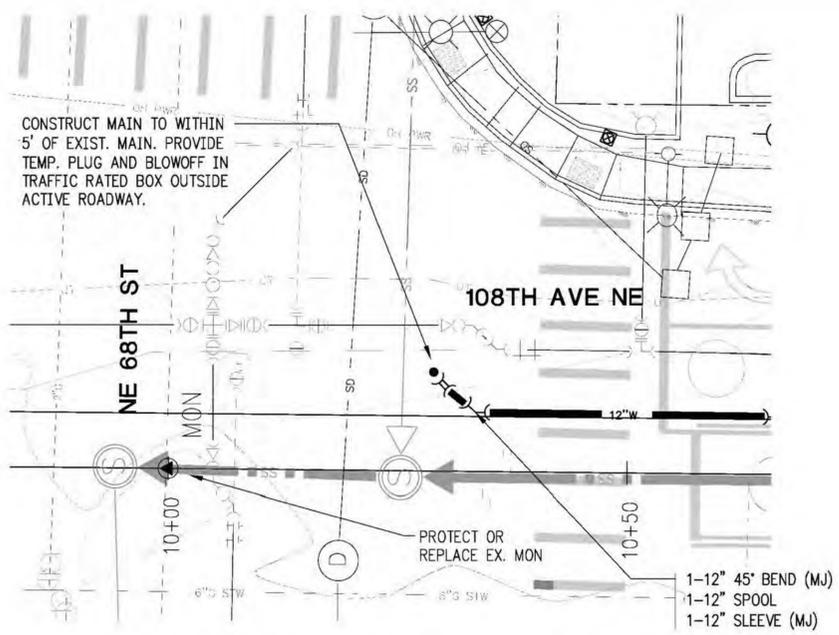


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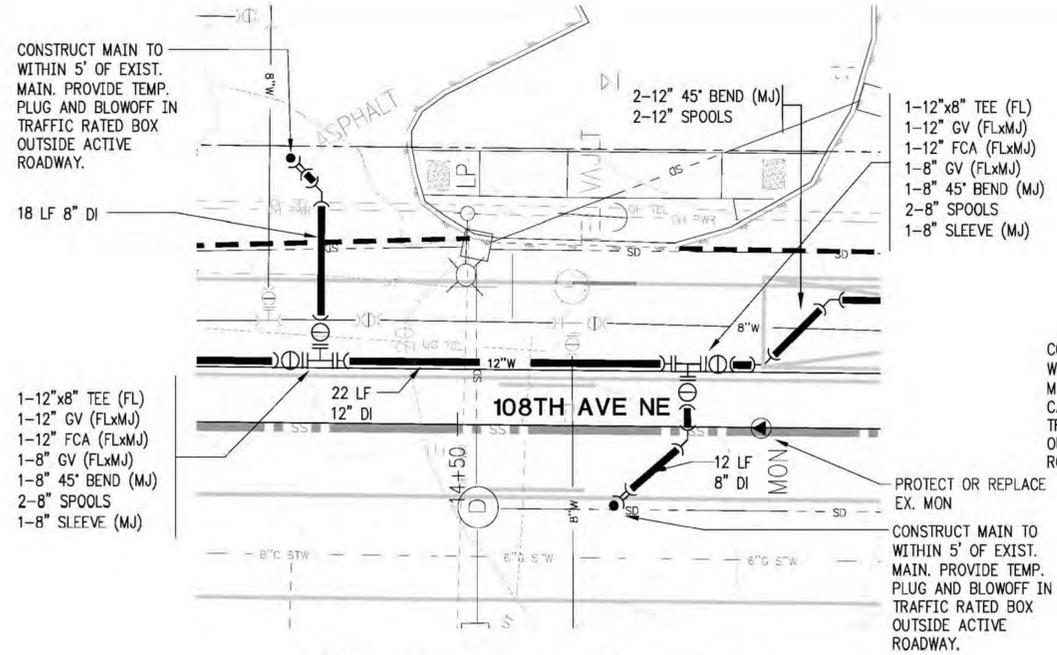
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108TH AVE NE SEWER AND WATER REPLACEMENT
WATER PLAN
 STA 20+00 TO STA 31+50

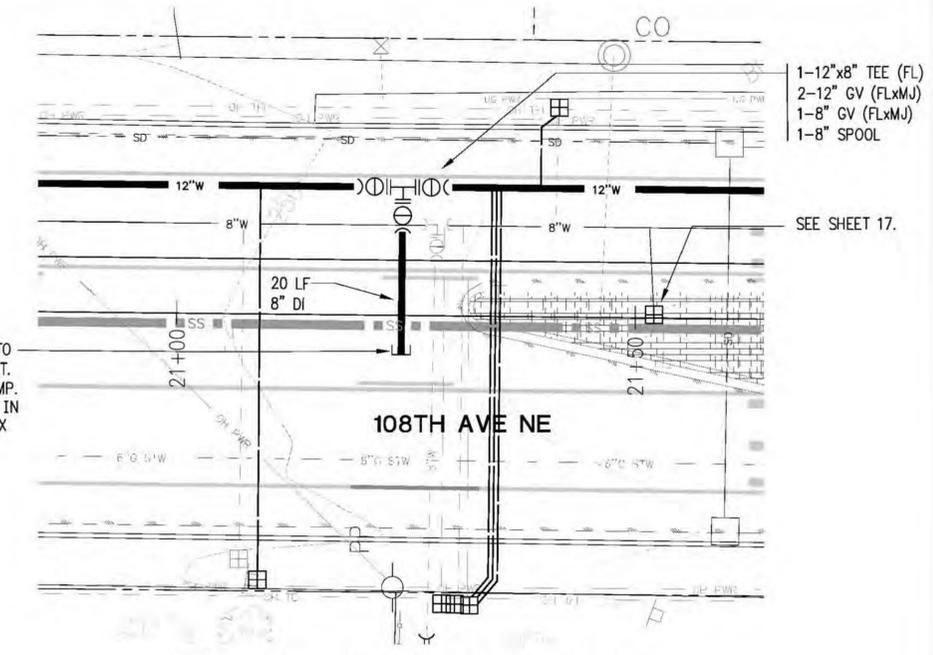
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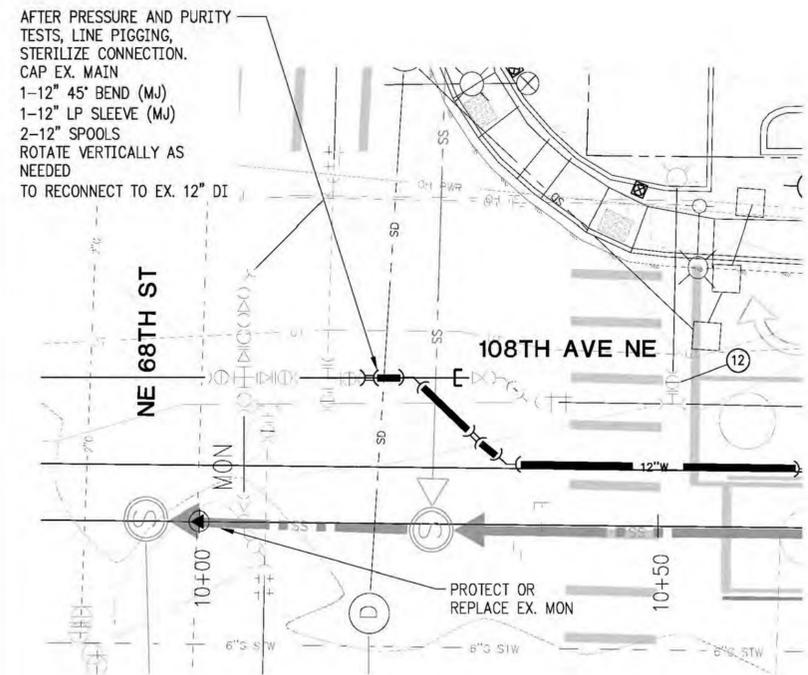
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4 WATER DETAIL 1 TEST



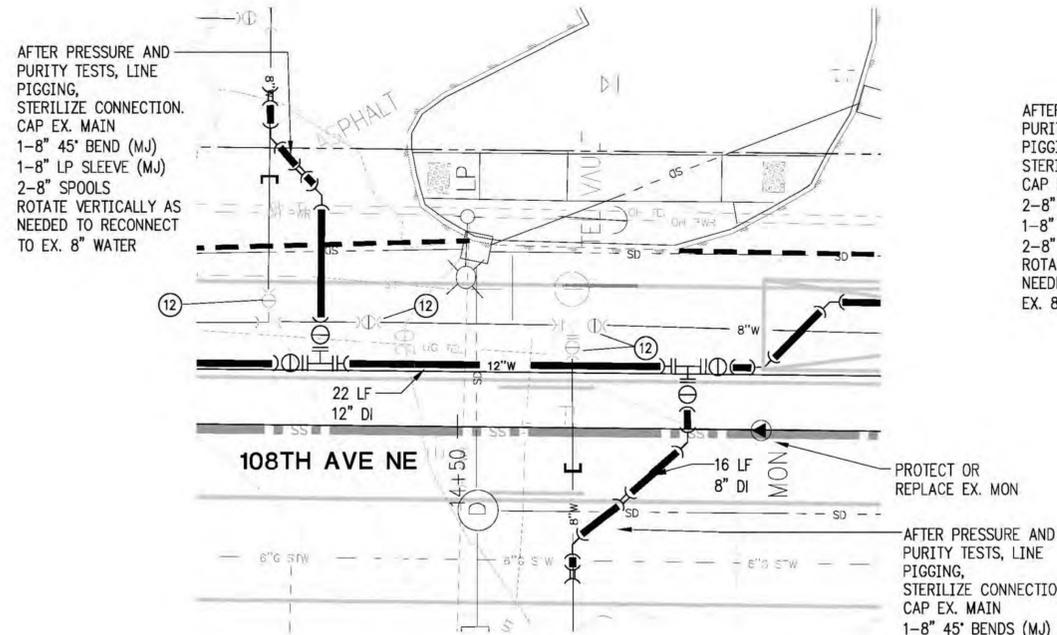
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4 WATER DETAIL 2 TEST



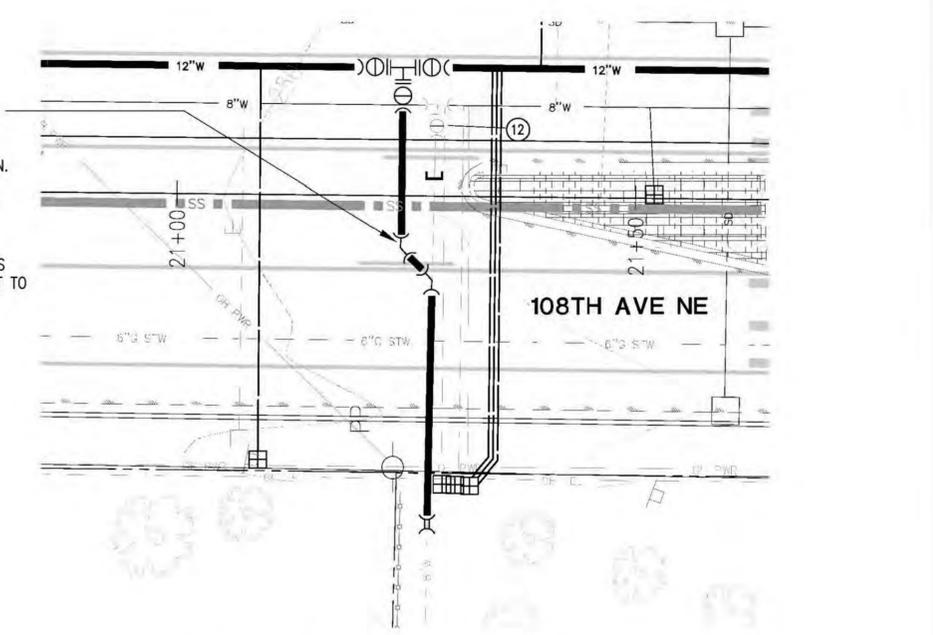
3
5 WATER DETAIL 3 TEST



1
4 WATER DETAIL 1 FINAL



2
4 WATER DETAIL 2 FINAL



3
5 WATER DETAIL 3 FINAL



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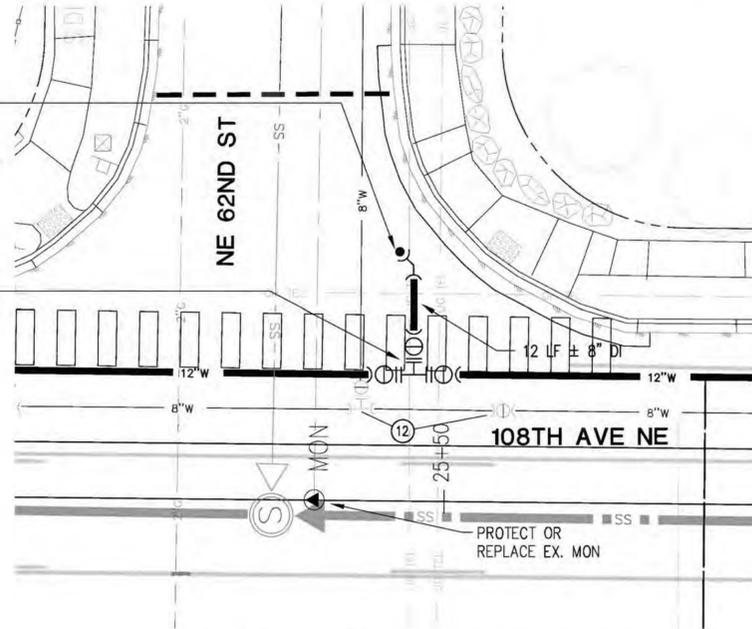
108TH AVE NE SEWER AND WATER REPLACEMENT
WATER CONNECTION DETAILS

SHEET: **6 / 36**
SCALE: NTS
FILENAME: 801802 - DESIGN

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CONSTRUCT MAIN TO WITHIN 5' OF EXIST. MAIN. PROVIDE TEMP. PLUG AND BLOWOFF IN TRAFFIC RATED BOX OUTSIDE ACTIVE ROADWAY.

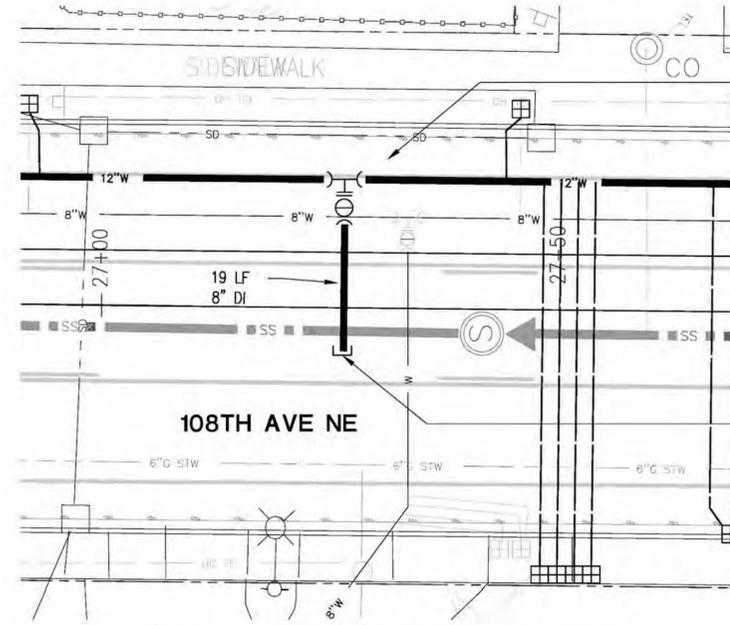
- 1-12"x8" TEE (FL)
- 2-12" GV (FLxMJ)
- 1-8" GV (FLxMJ)
- 1-8" SPOOL
- 1-8" 45° BEND (MJ)



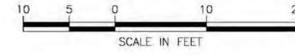
4 WATER DETAIL 4 TEST
5



- 1-12"x8" TEE (MJxFL)
- 1-8" GV (FLxMJ)
- 1-8" 45° BEND (MJ)
- 1-8" SPOOL

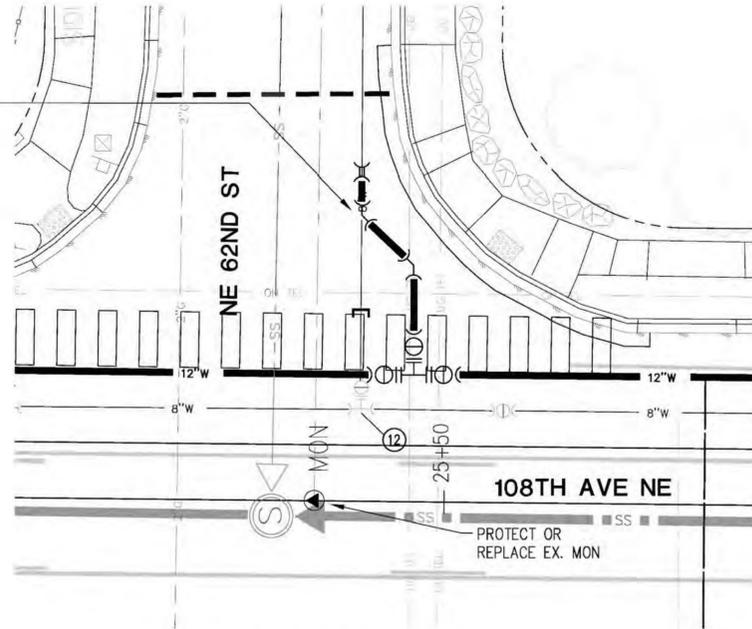


5 WATER DETAIL 5 TEST
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CONSTRUCT MAIN TO WITHIN 5' OF EXIST. MAIN. PROVIDE TEMP. CAP AND BLOWOFF IN TRAFFIC RATED BOX OUTSIDE ACTIVE ROADWAY.

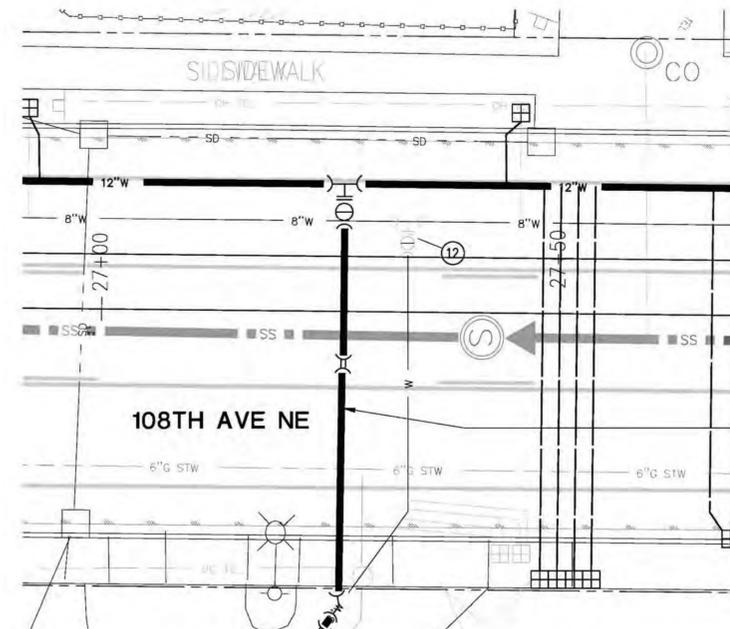
AFTER PRESSURE AND PURITY TESTS, LINE PIGGING, STERILIZE CONNECTION. CAP EX. MAIN
1-8" 45° BEND (MJ)
1-8" LP SLEEVE (MJ)
2-8" SPOOLS
ROTATE VERTICALLY AS NEEDED TO RECONNECT TO EX. 8" DI



4 WATER DETAIL 4 FINAL
5



AFTER PRESSURE AND PURITY TESTS, LINE PIGGING, STERILIZE CONNECTION. CAP EX. MAIN
1-8" 45° BEND (MJ)
2-8" LP SLEEVE (MJ)
3-8" SPOOLS
ROTATE VERTICALLY AS NEEDED TO RECONNECT TO EX. 8" DI



5 WATER DETAIL 5 FINAL
5



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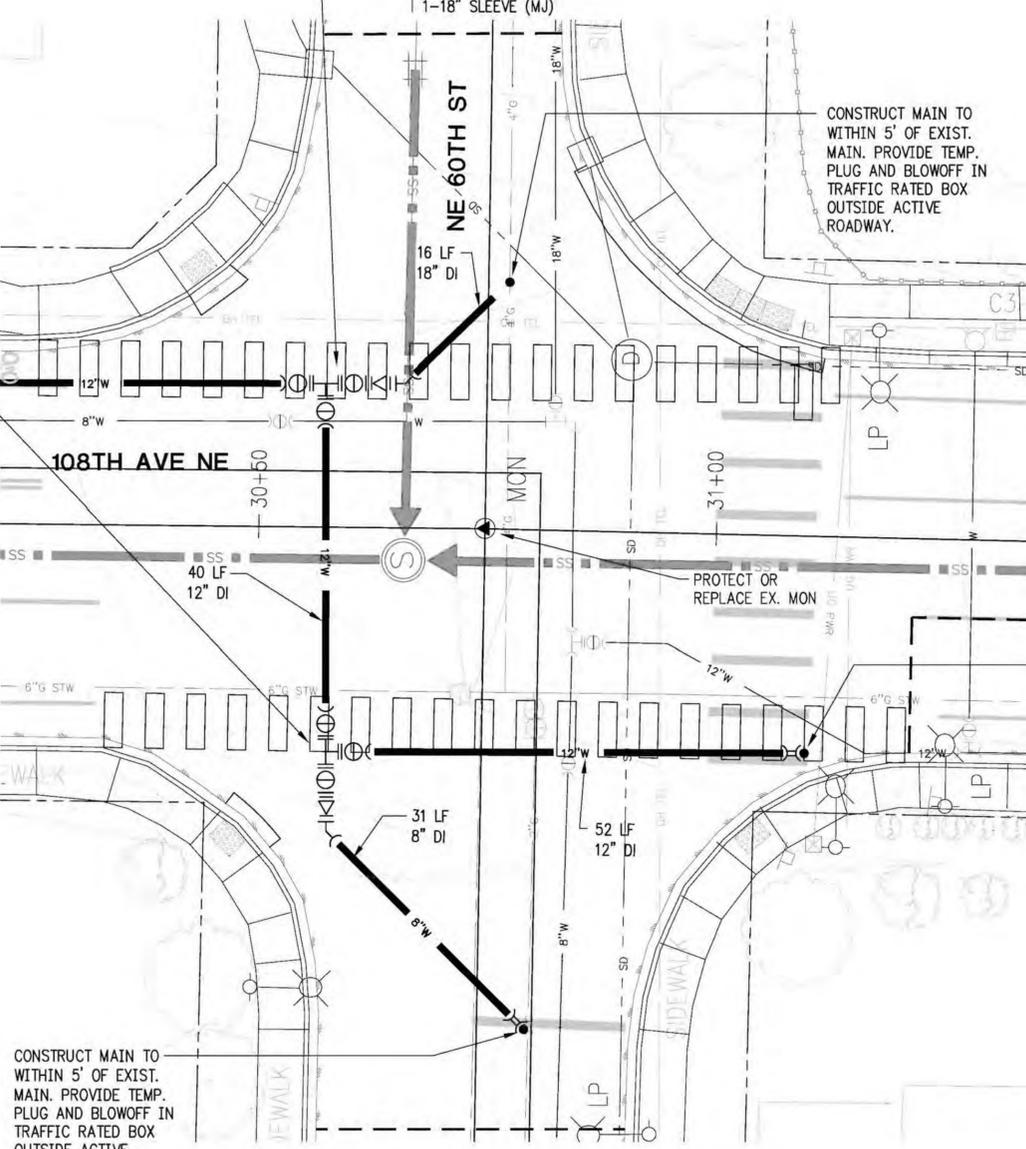


108TH AVE NE SEWER AND WATER REPLACEMENT
WATER CONNECTION DETAILS

SHEET: 7 / 36
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FILENAME: 801802 - DESIGN

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- 1-12" TEE (FL)
- 2-12" GV (FLxMJ)
- 1-12" GV (FL)
- 1-18"X12" RED (FL)
- 1-18" 45° BEND (FLxMJ)
- 1-18" SPOOL
- 1-18" SLEEVE (MJ)



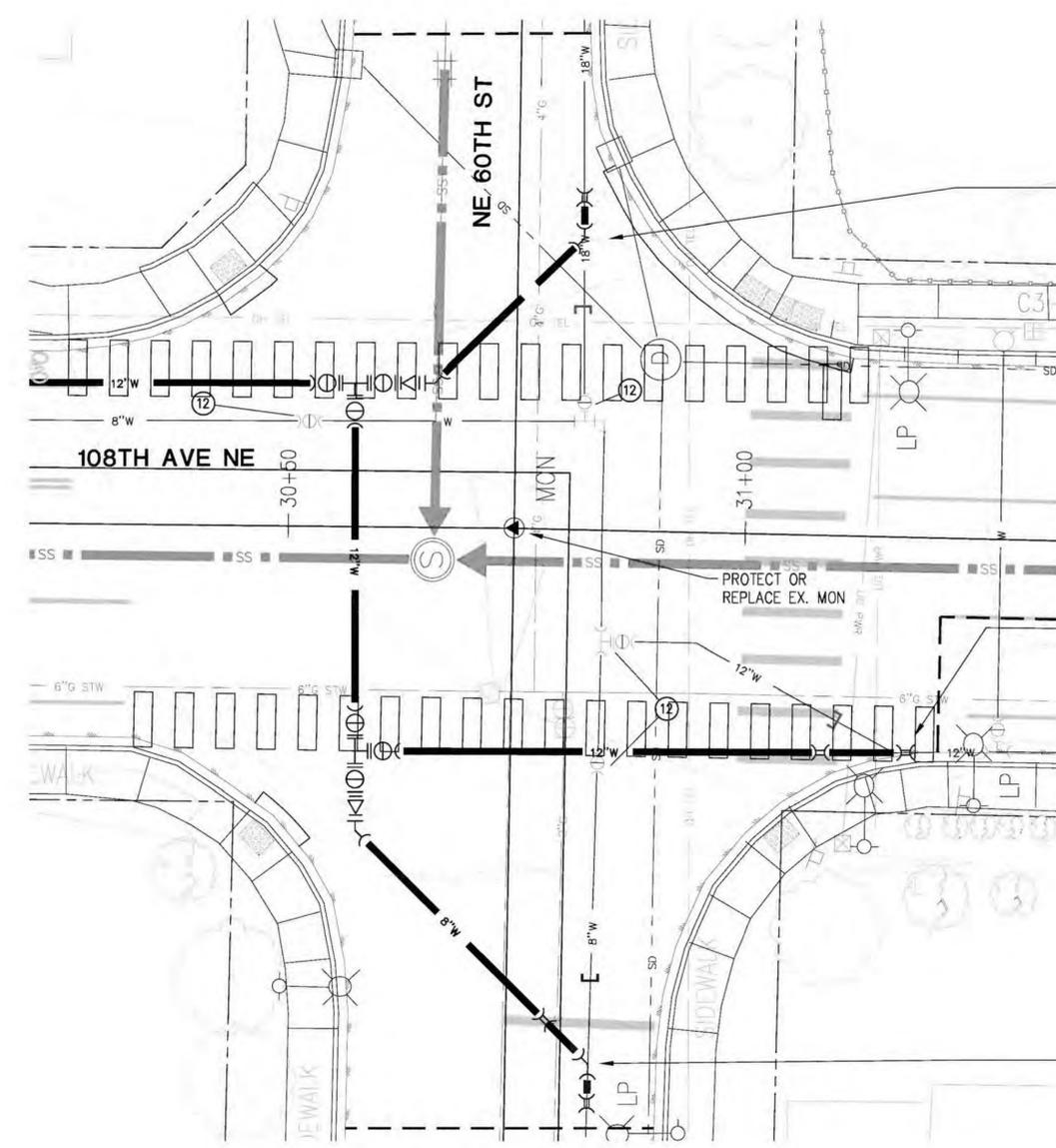
- 1-12" TEE (FL)
- 2-12" GV (FLxMJ)
- 1-12" GV (FL)
- 1-12"X8" RED (FL)
- 1-45° BEND (FLxMJ)
- 1-12" SPOOL
- 1-12" SLEEVE (MJ)
- 1-8" SPOOL
- 1-8" SLEEVE (MJ)

CONSTRUCT MAIN TO WITHIN 5' OF EXIST. MAIN. PROVIDE TEMP. PLUG AND BLOWOFF IN TRAFFIC RATED BOX OUTSIDE ACTIVE ROADWAY.

CONSTRUCT MAIN TO WITHIN 5' OF EXIST. MAIN. PROVIDE TEMP. PLUG AND BLOWOFF IN TRAFFIC RATED BOX OUTSIDE ACTIVE ROADWAY.

CONSTRUCT MAIN TO WITHIN 5' OF EXIST. MAIN. PROVIDE TEMP. PLUG AND BLOWOFF IN TRAFFIC RATED BOX OUTSIDE ACTIVE ROADWAY.

6 WATER DETAIL 6 TEST
5



AFTER PRESSURE AND PURITY TESTS, LINE PIGGING, STERILIZE CONNECTION. CAP EX. MAIN
1-18" 45° BEND (MJ)
1-18" LP SLEEVE (MJ)
2-18" SPOOLS
ROTATE VERTICALLY AS NEEDED TO RECONNECT TO EX. 18" WATER

AFTER PRESSURE AND PURITY TESTS, LINE PIGGING, STERILIZE CONNECTION. CAP EX. MAIN
1-12" LP SLEEVE (MJ)
1-12" SPOOL
ROTATE VERTICALLY AS NEEDED TO RECONNECT TO EX. 12" WATER

AFTER PRESSURE AND PURITY TESTS, LINE PIGGING, STERILIZE CONNECTION. CAP EX. MAIN
1-8" 45° BEND (MJ)
1-8" LP SLEEVE (MJ)
1-8" SPOOLS
ROTATE VERTICALLY AS NEEDED TO RECONNECT TO EX. 8" WATER

6 WATER DETAIL 6 FINAL
5



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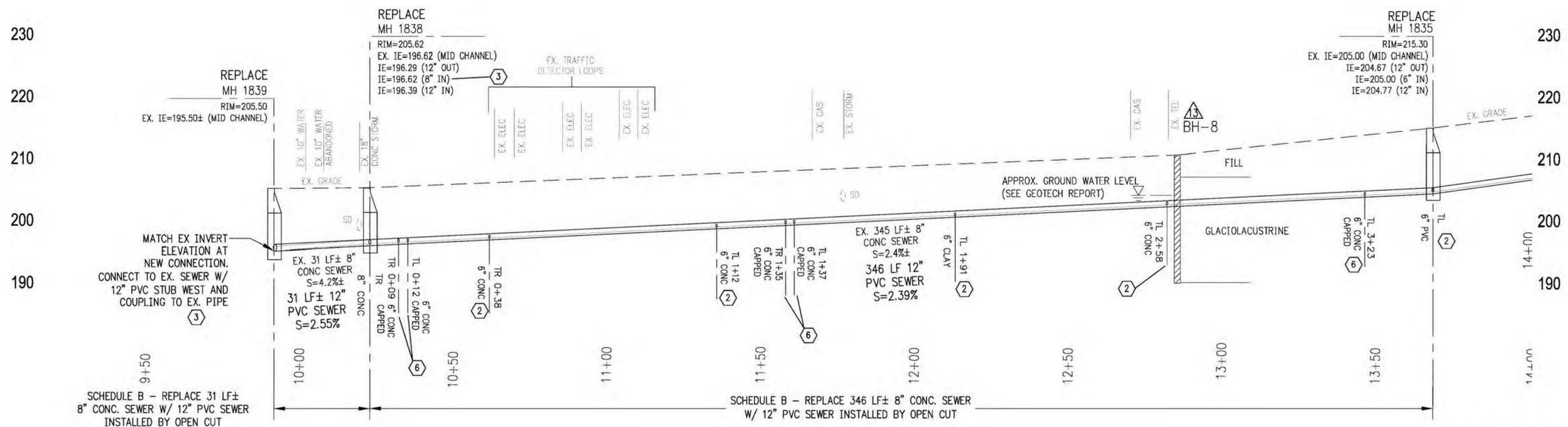
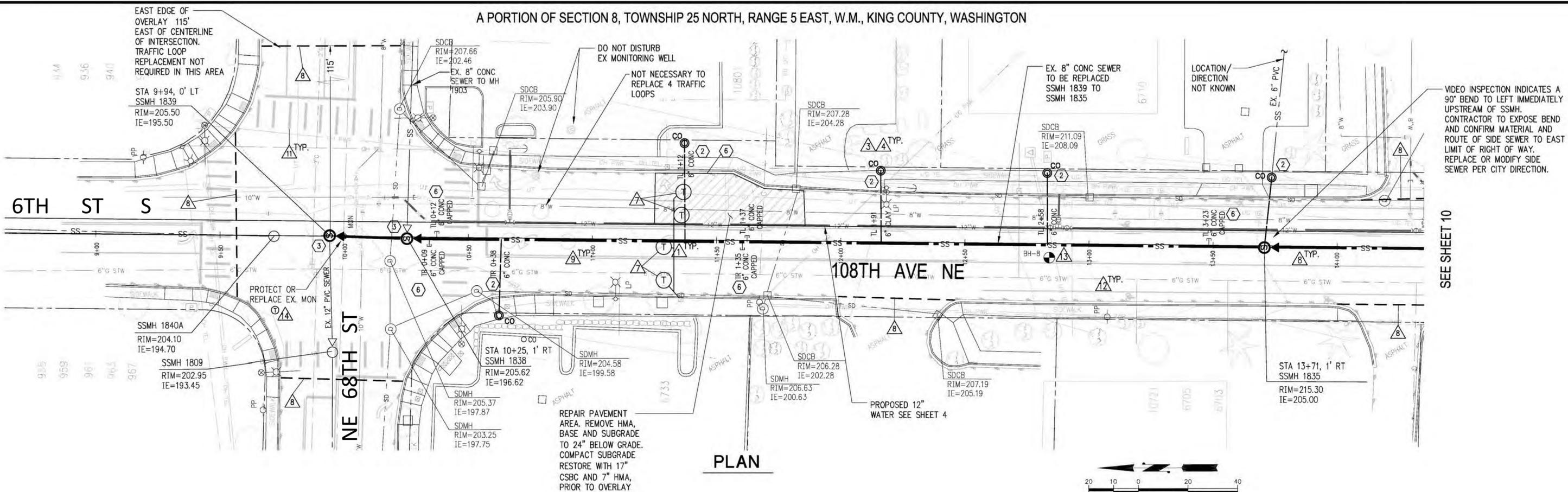
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108TH AVE NE SEWER AND WATER REPLACEMENT
WATER CONNECTION DETAILS

SHEET: **8 / 36**
SCALE: SEE GRAPHIC SCALE
FILENAME: 801802 - DESIGN

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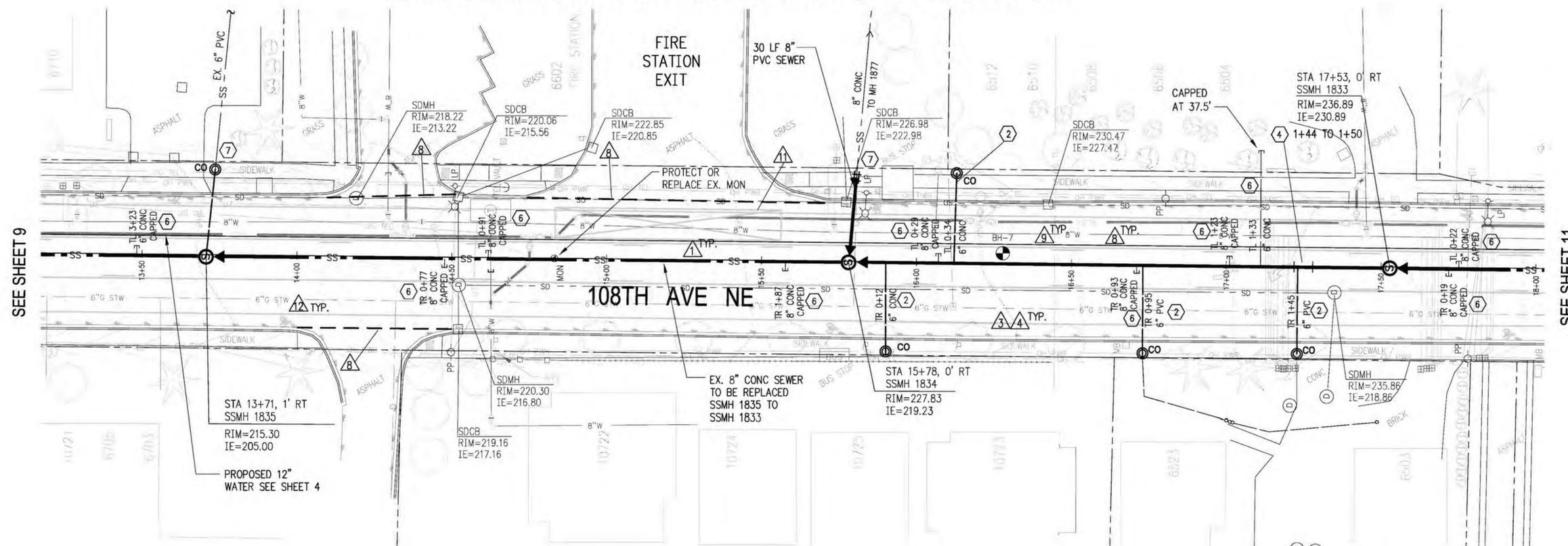
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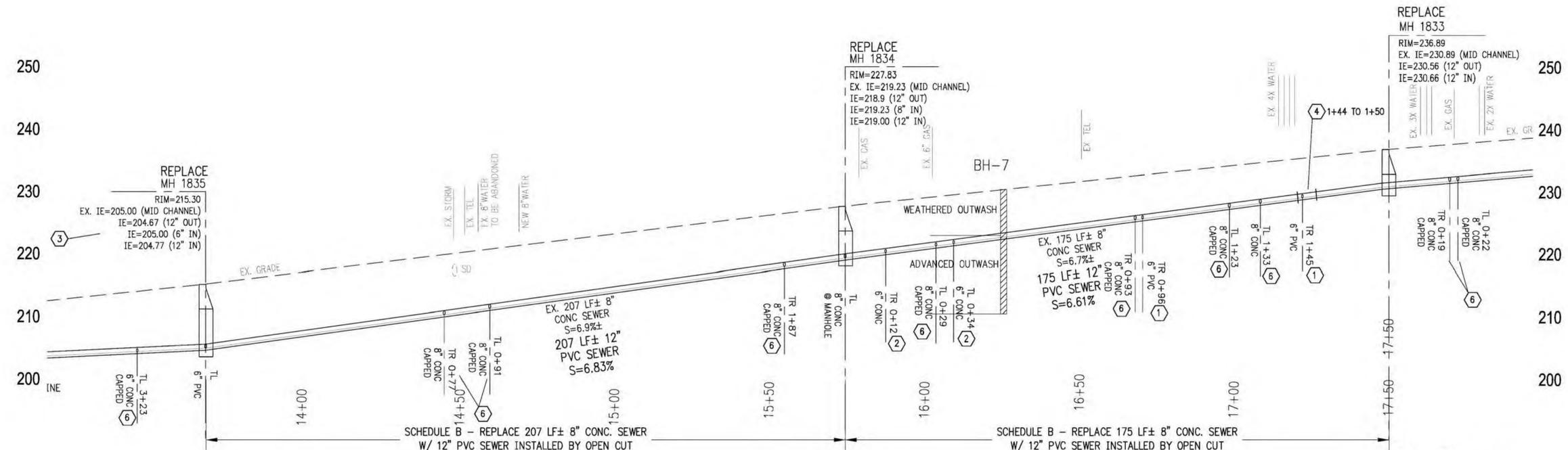
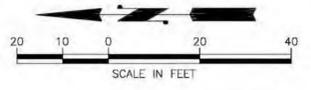
108TH AVE NE SEWER AND WATER REPLACEMENT
108TH - MH 1839 TO MH 1835
SEWER PLAN AND PROFILE

SHEET: 9 / 36
SCALE: SEE GRAPHIC SCALE
FILENAME: 801802 - DESIGN

A PORTION OF SECTION 8, TOWNSHIP 25 NORTH, RANGE 5 EAST, W.M., KING COUNTY, WASHINGTON



PLAN



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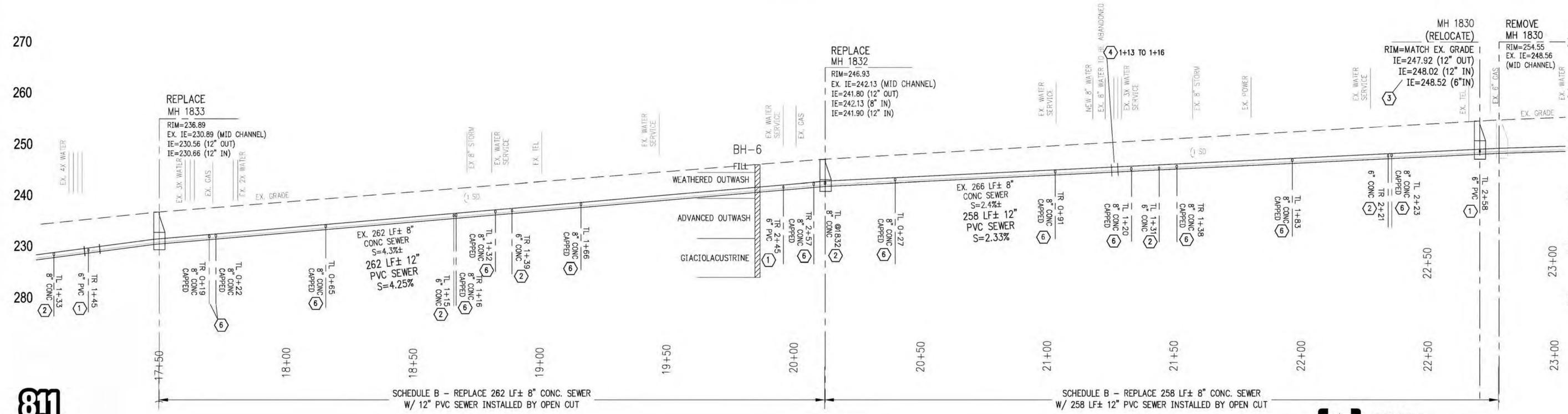
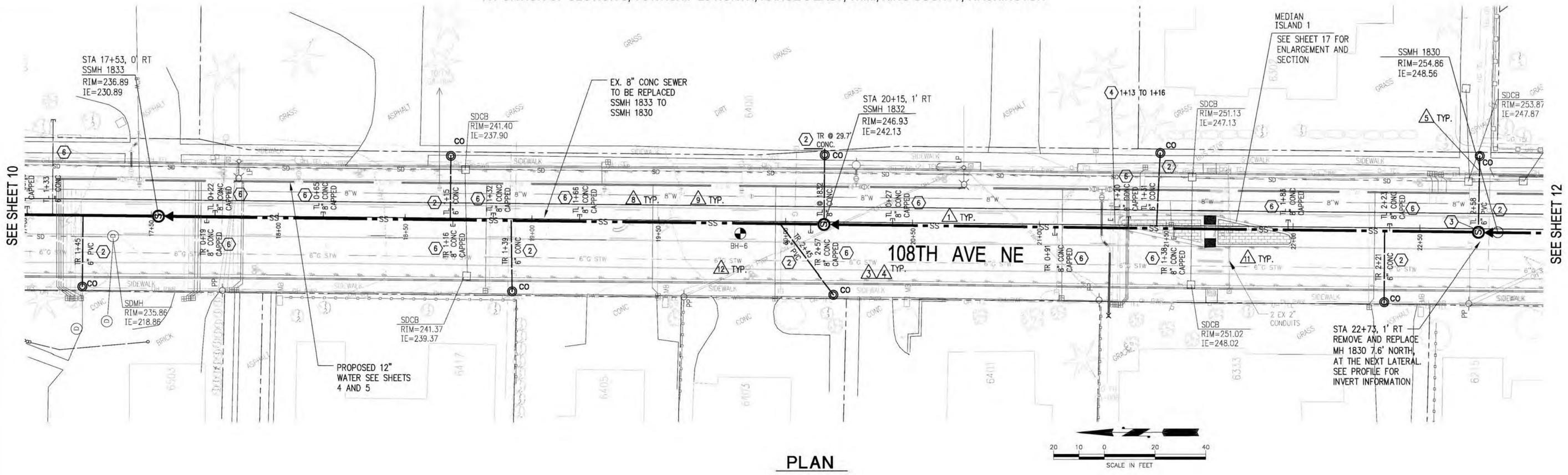
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108TH AVE NE SEWER AND WATER REPLACEMENT
 108TH - MH 1835 TO MH 1833
 SEWER PLAN AND PROFILE

SHEET: 10 / 36
 SCALE: SEE GRAPHIC SCALE
 FILENAME: 801802 - DESIGN

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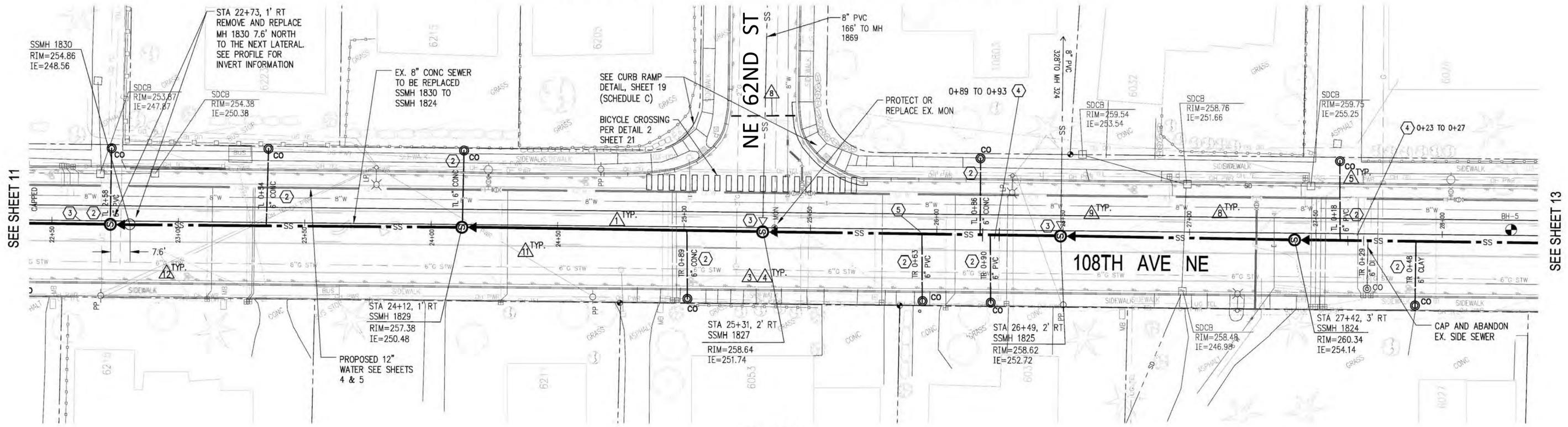
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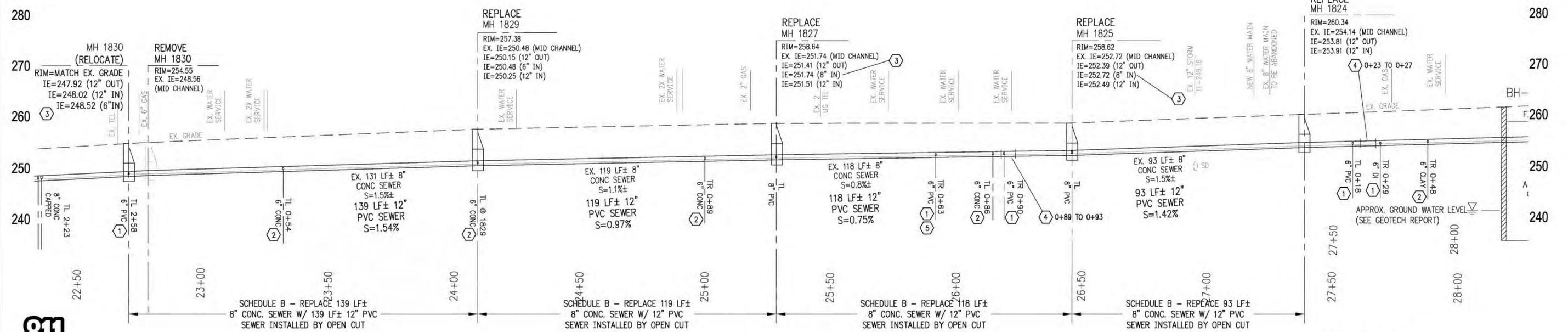
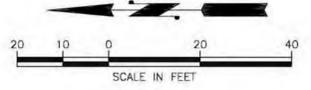
108TH AVE NE SEWER AND WATER REPLACEMENT
 108TH - MH 1833 TO MH 1830
 SEWER PLAN AND PROFILE

SHEET: 11 / 36
 SCALE: SEE GRAPHIC SCALE
 FILENAME: 801802 - DESIGN

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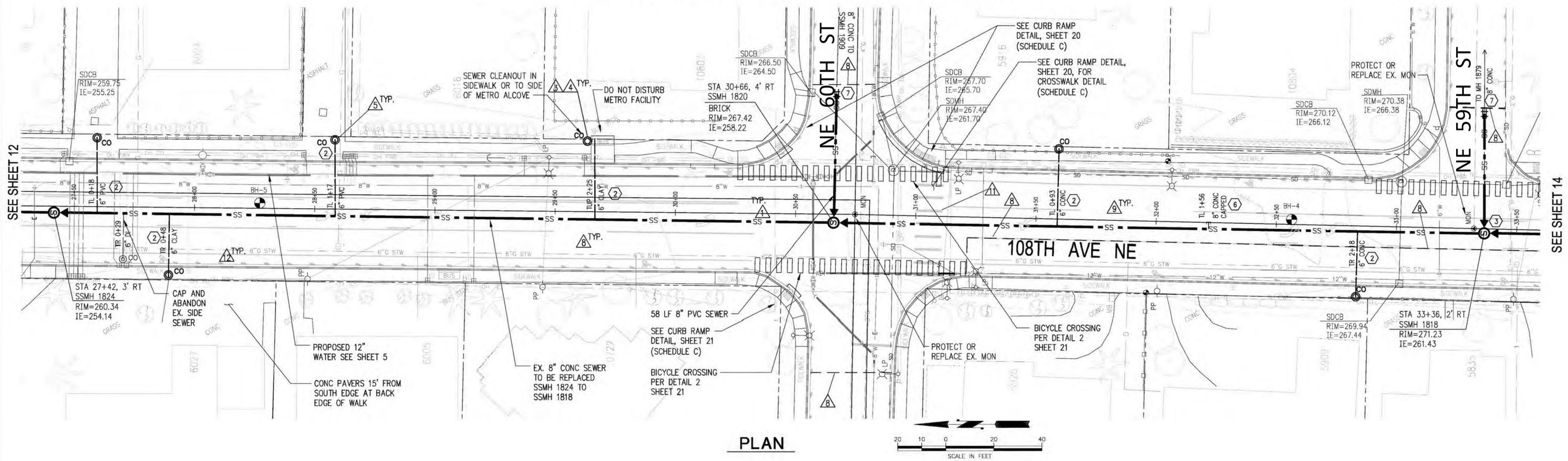
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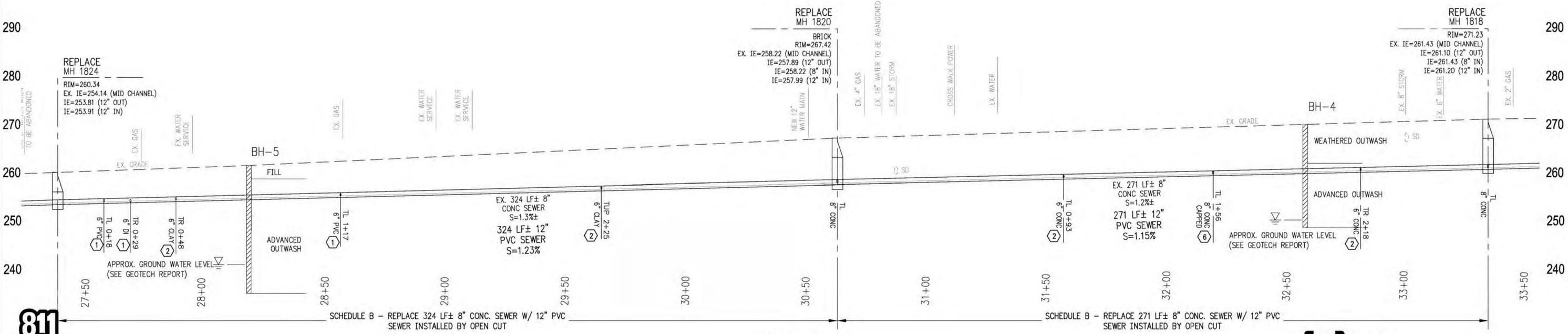
108TH AVE NE SEWER AND WATER REPLACEMENT
 108TH - MH 1830 TO MH 1824
 SEWER PLAN AND PROFILE

SHEET: 12 / 36
 SCALE: SEE GRAPHIC SCALE
 FILENAME: 801802 - DESIGN

A PORTION OF SECTIONS 8 AND 17, TOWNSHIP 25 NORTH, RANGE 5 EAST, W.M., KING COUNTY, WASHINGTON



PLAN

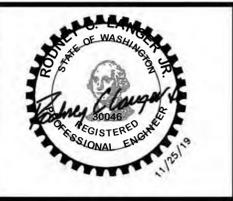


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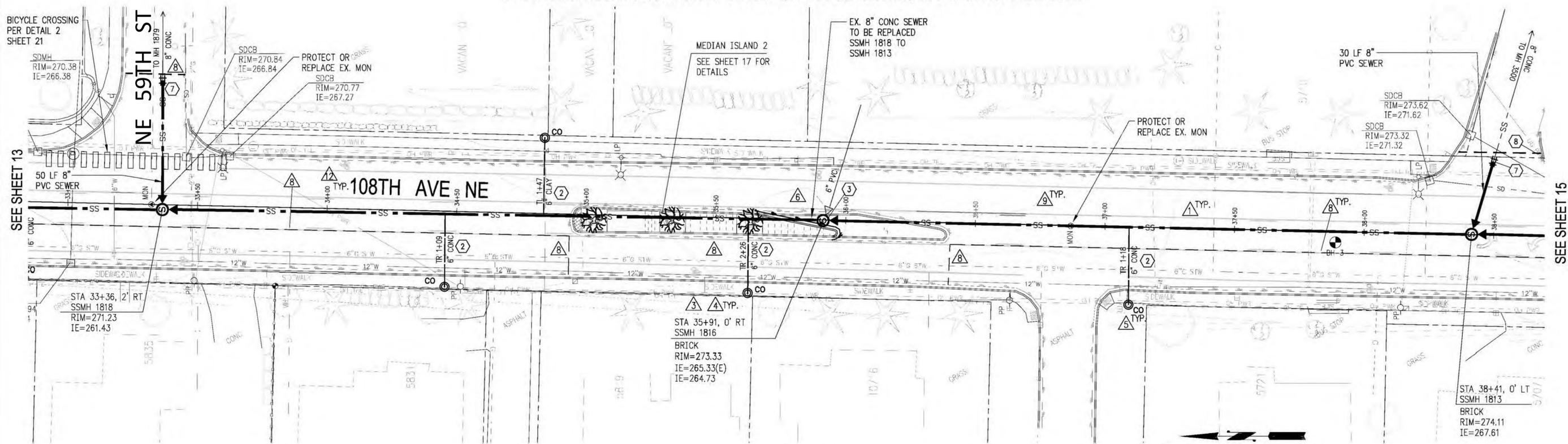
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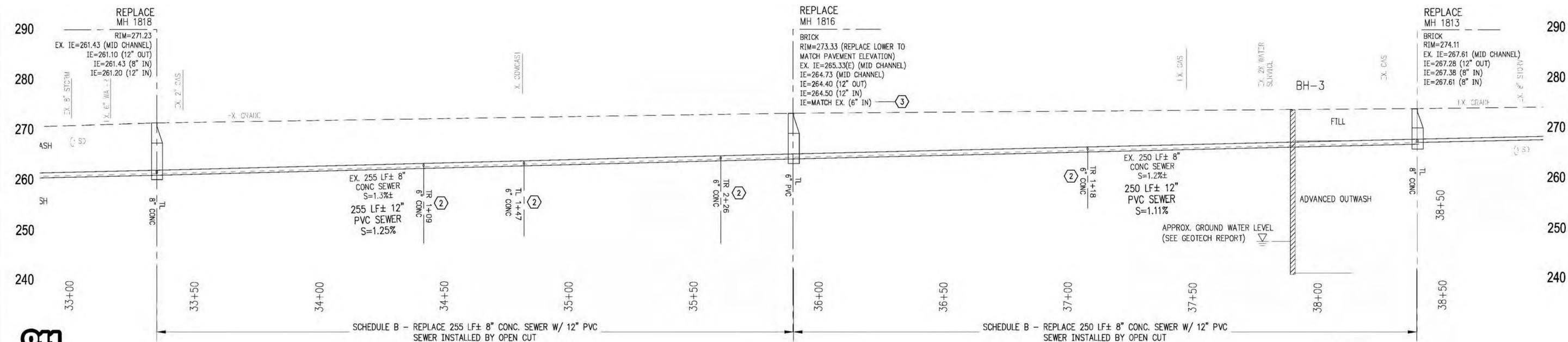
108TH AVE NE SEWER AND WATER REPLACEMENT
 108TH - MH 1824 TO MH 1818
 SEWER PLAN AND PROFILE

SHEET: 13 / 36
 SCALE: SEE GRAPHIC SCALE
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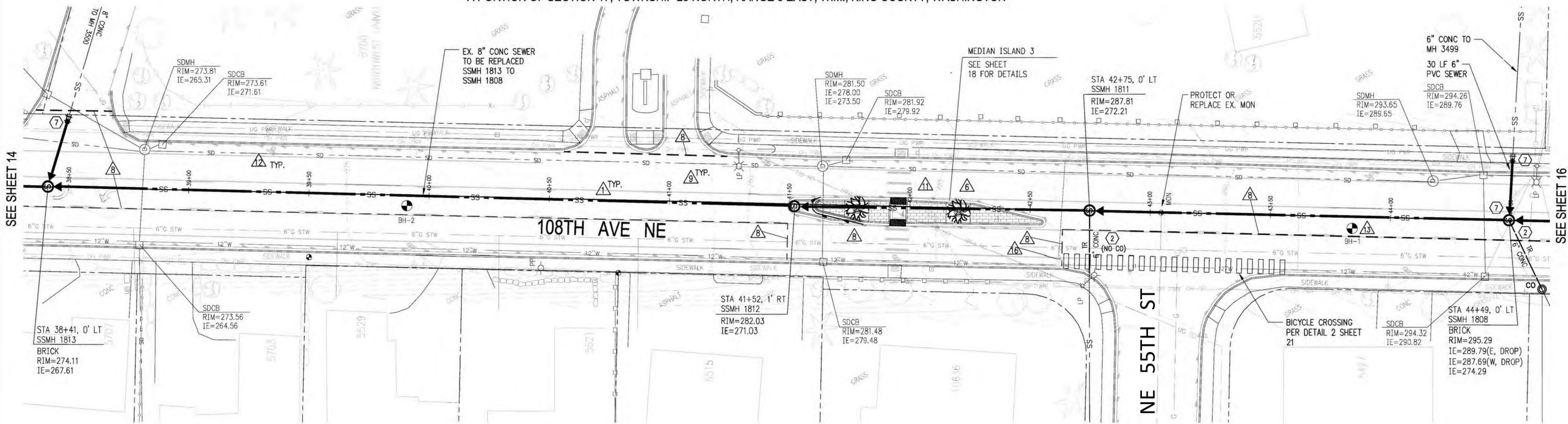
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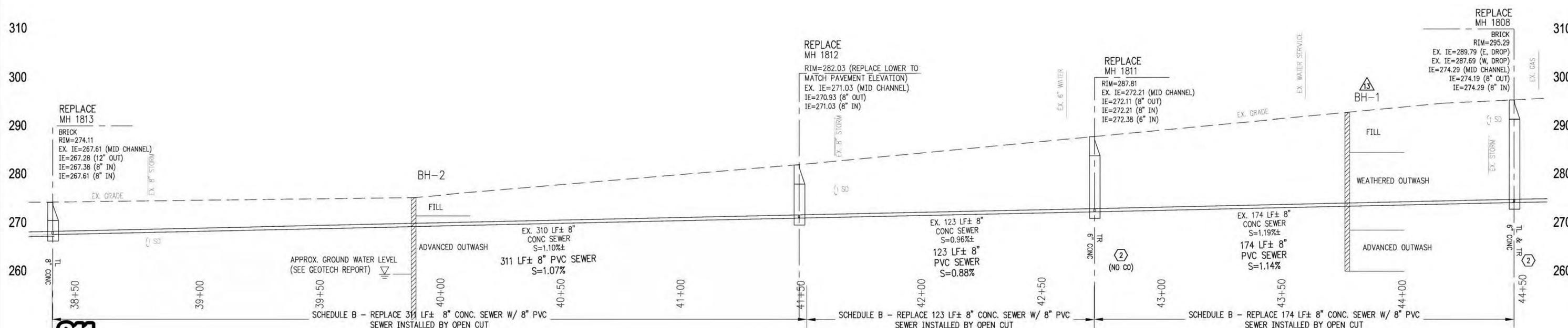
108TH AVE NE SEWER AND WATER REPLACEMENT
 108TH - MH 1818 TO MH 1813
 SEWER PLAN AND PROFILE

SHEET: 14 / 36
 SCALE: SEE GRAPHIC SCALE
 FILENAME: 801802 - DESIGN

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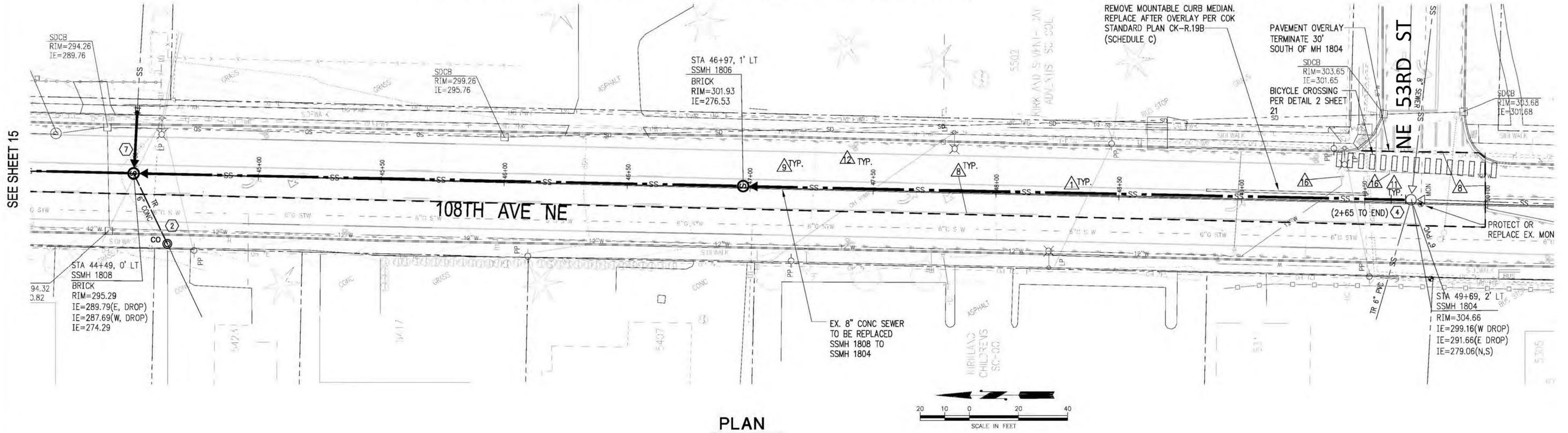
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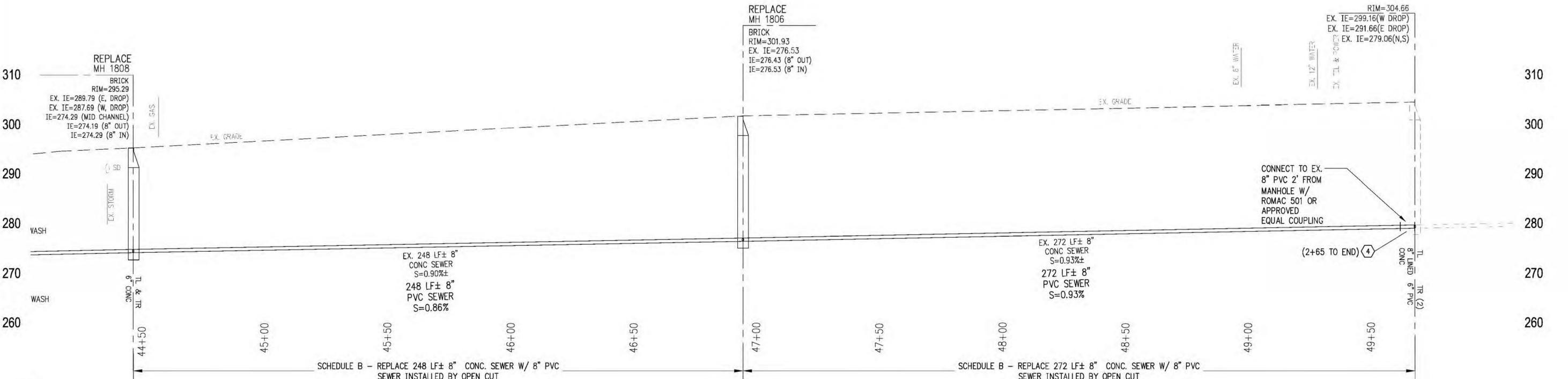
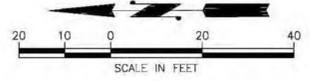
108TH AVE NE SEWER AND WATER REPLACEMENT
 108TH - MH 1813 TO MH 1808
 SEWER PLAN AND PROFILE

SHEET: 15 / 36
 SCALE: SEE GRAPHIC SCALE
 FILENAME: 801802 - DESIGN

A PORTION OF SECTION 17, TOWNSHIP 25 NORTH, RANGE 5 EAST, W.M., KING COUNTY, WASHINGTON



PLAN

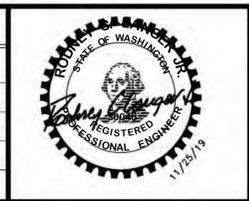


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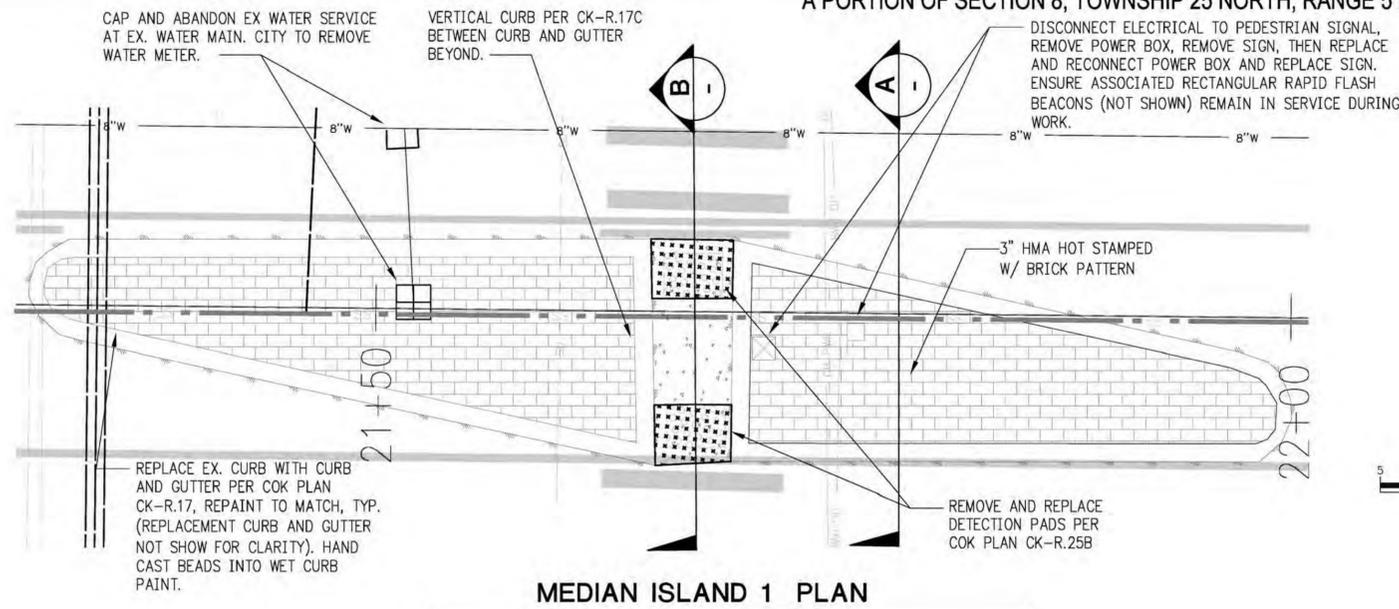
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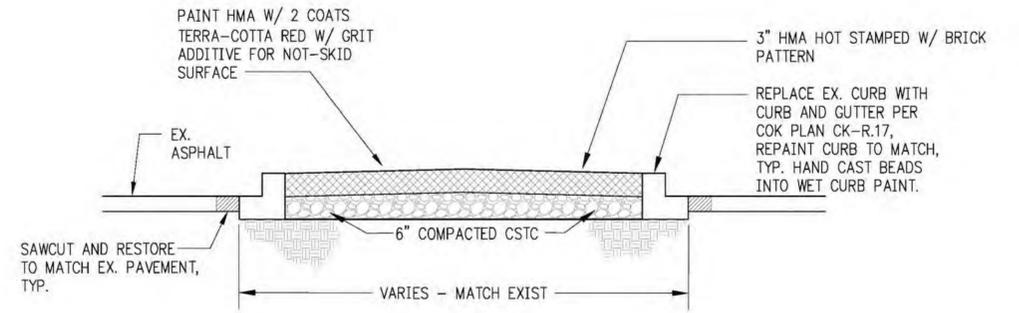
108TH AVE NE SEWER AND WATER REPLACEMENT
 108TH - MH 1808 TO MH 1804
 SEWER PLAN AND PROFILE

SHEET: **16 / 36**
 SCALE: SEE GRAPHIC SCALE
 FILENAME: 801802 - DESIGN

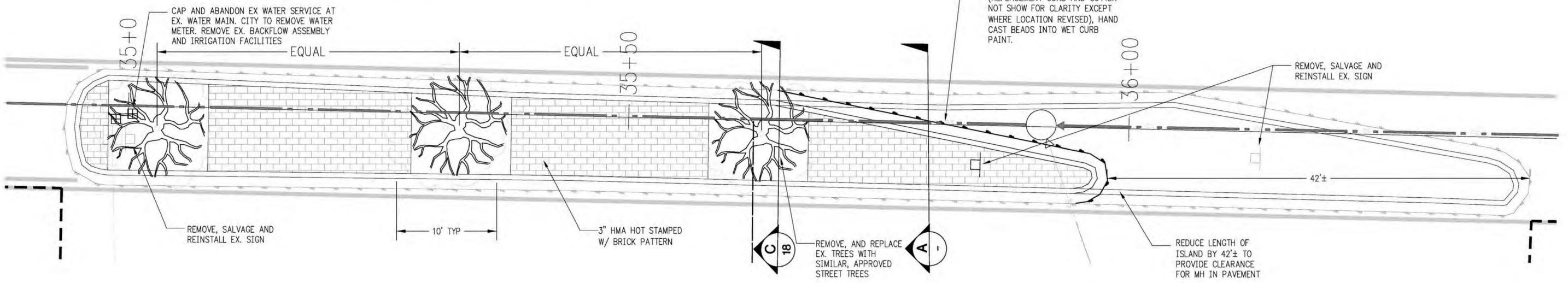
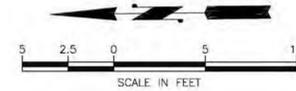
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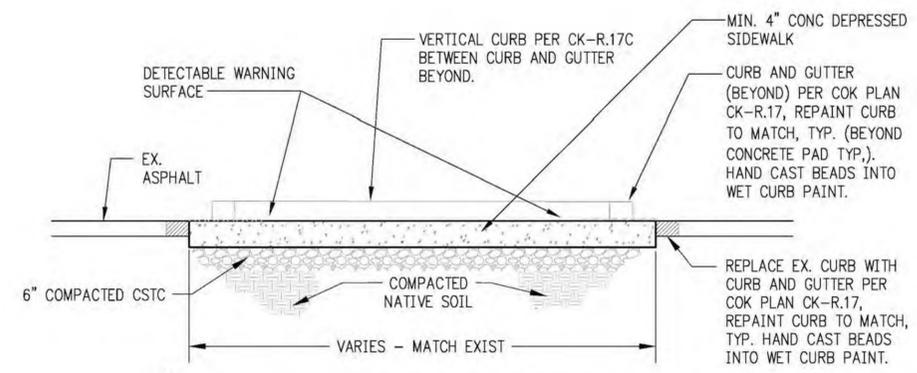
MEDIAN ISLAND 1 PLAN



SECTION - MEDIAN ISLAND



MEDIAN ISLAND 2 PLAN



SECTION - ISLAND CROSSING

NOTE:
SEE SHEET 18 FOR LANDSCAPE
PLANT MATERIAL LEGEND



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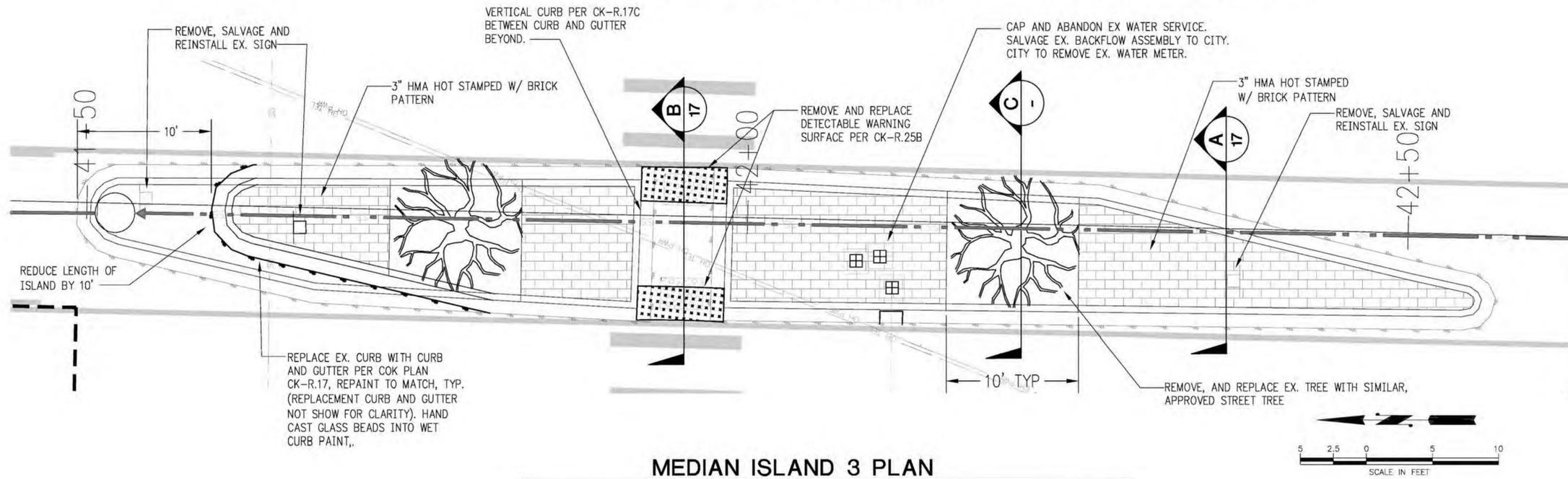
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108TH AVE NE SEWER AND WATER REPLACEMENT

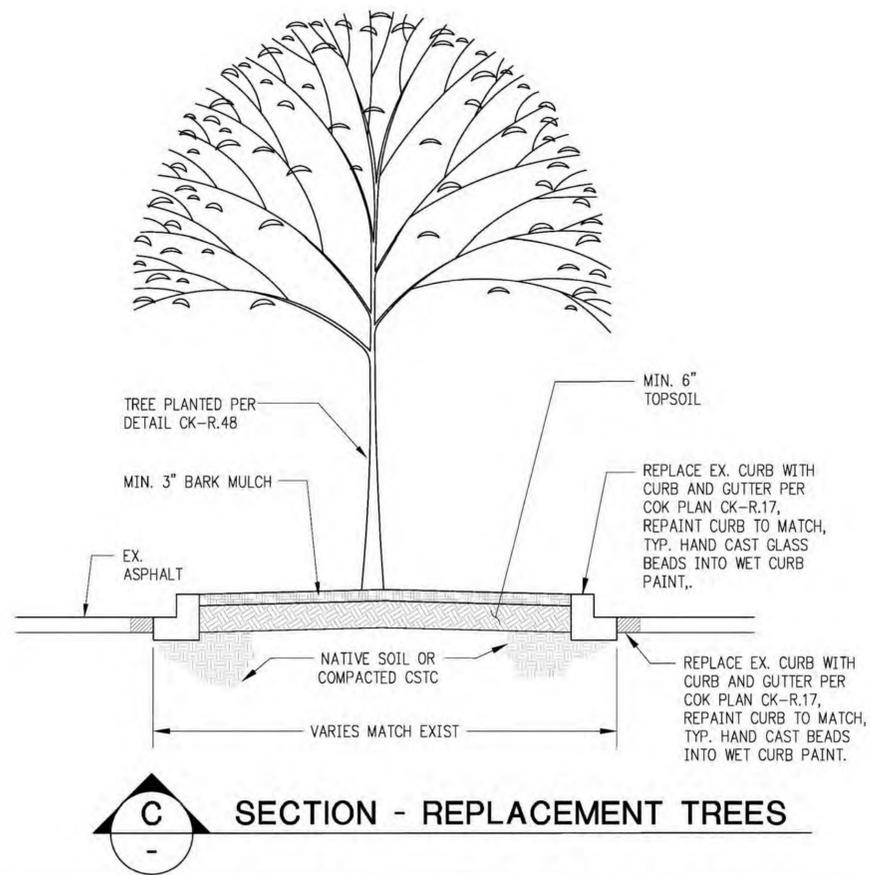
MEDIAN ISLANDS 1 AND 2
ENLARGEMENT PLAN AND SECTION,

SHEET:
17 / 36
SCALE:
SEE GRAPHIC SCALE
FILENAME:
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MEDIAN ISLAND 3 PLAN



LANDSCAPE MATERIAL LEGEND

SYMBOL	BOTANICAL NAME / COMMON NAME	QUANTITY	SIZE	SPACING	COMMENTS
	PYRUS CALLERYANA "CAMBRIDGE" / CAMBRIDGE PEAR PER COK APPROVED TREE LIST	5	1.5" CAL.	AS SHOWN	BRANCHED AT 6' HT., NO BROKEN LEADERS
	BARK MULCH	AS REQ'D	MEDIUM	3" DEPTH	MEDIUM BARK MULCH
	TOP SOIL	AS REQ'D		6" DEPTH	



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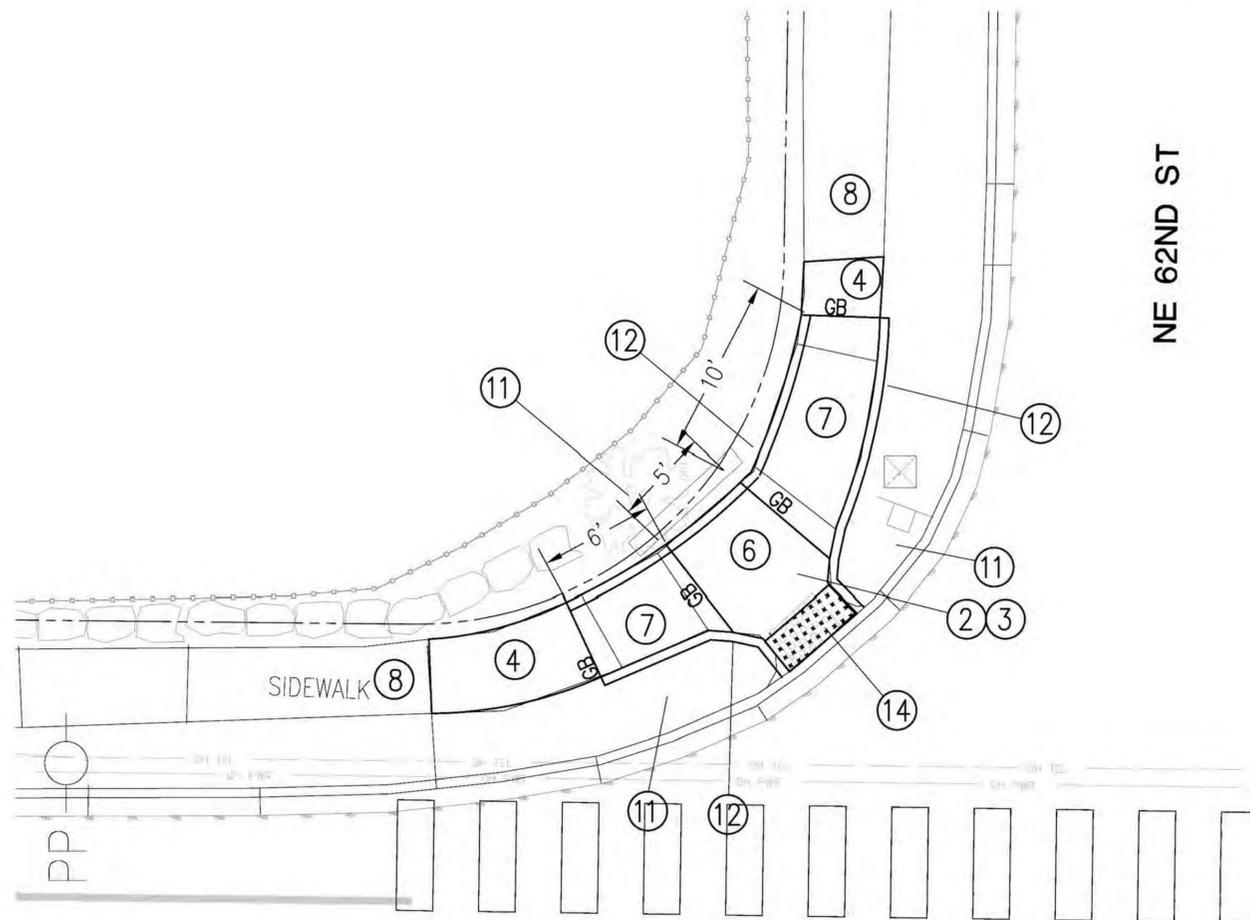
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RL 10 / 19
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108TH AVE NE SEWER AND WATER REPLACEMENT

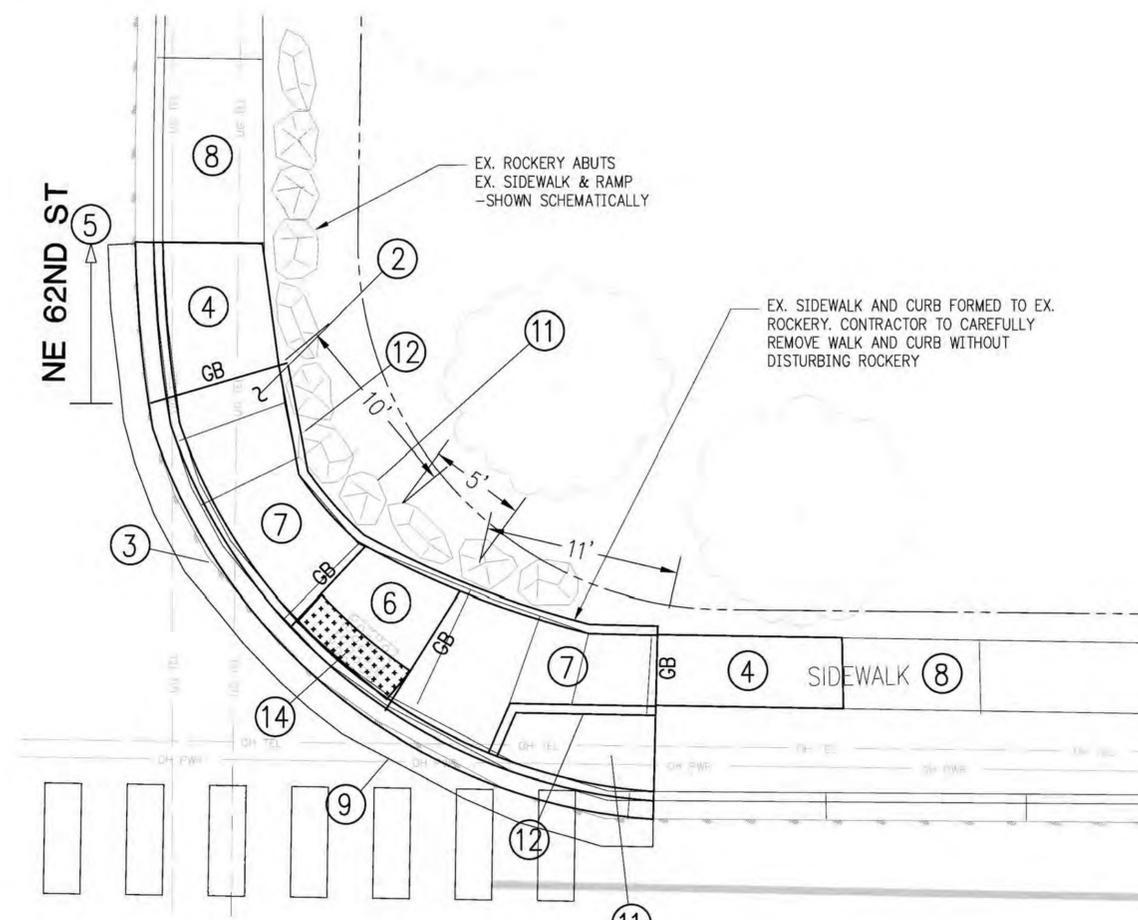
MEDIAN ISLAND 3
ENLARGEMENT PLANS AND SECTIONS

SHEET: 18 / 36
SCALE: SEE GRAPHIC SCALE
FILENAME: 801802 - DESIGN



108TH AVE NE

PLAN - NE CORNER



108TH AVE NE

PLAN - SE CORNER

ADA RAMP KEY NOTES

1. PLACE CROSSWALK STRIPING PER PLAN NO. CK-R.28 FOR CONTROLLED (I.E. STOP) APPROACHES OR CK-R.28B FOR UNCONTROLLED APPROACHES. REMOVE EXISTING IF EXISTING.
2. REMOVE EXISTING CONCRETE CURB, GUTTER, RAMP AND SIDEWALK WITHIN LIMITS OF CURB RAMP REPLACEMENT WORK.
3. CONCRETE CURB RAMPS WITH CURB/GUTTER, PEDESTRIAN CURB, LANDING, DETECTABLE WARNING SURFACE AND RAMPS PER WSDOT STANDARD PLANS F-40.12-03, F-40.16-03 AND F-45.10-02 APPLIED TO GEOMETRY PER THIS DETAIL.
4. CONCRETE SIDEWALK TRANSITION FROM RAMP TO EXISTING SIDEWALK PER PLAN NO. CK-R.23.
5. PAINT CURB RED TO MATCH EXISTING.
6. LANDING
7. RAMP
8. EXISTING CONCRETE SIDEWALK TO REMAIN.
9. SAWCUT AND REMOVE EXISTING AC PAVEMENT AND SUBGRADE ALONG FACE OF CURB TO BE REPLACED. REPLACE WITH BASE COURSE AND HMA PER PLAN NO. CK-R.07 AS MODIFIED BY NOTE 1, SHEET 22.
10. FILL ISLAND AREA WITH CONCRETE PER SIDEWALK DETAIL (PLAN NO. CK-R.23).
11. EX. LANDSCAPE VEGETATION, SURFACING AND IRRIGATION SYSTEM IN PLANTER STRIPS AND BEHIND EX. SIDEWALK. PROTECT OR REMOVE AND REPLACE TO MATCH EXISTING.
12. PEDESTRIAN CURB.
13. PEDESTRIAN BUTTON RISER PER J-20.26-01, WITH POST AND BASE PER J-20.15-03, LOCATION PER J-20.11-03 SIGN VISIBLE FROM CENTER OF INTERSECTION ORIENTED TOWARD ASSOCIATED CROSSING DIRECTION. LOCATE PEDESTRIAN BUTTON 42" ABOVE THE LANDING.
14. YELLOW TRUNCATED DOME TEXTILE WARNING SYSTEM
15. BLACK TRUNCATED DOME TEXTILE WARNING SYSTEM



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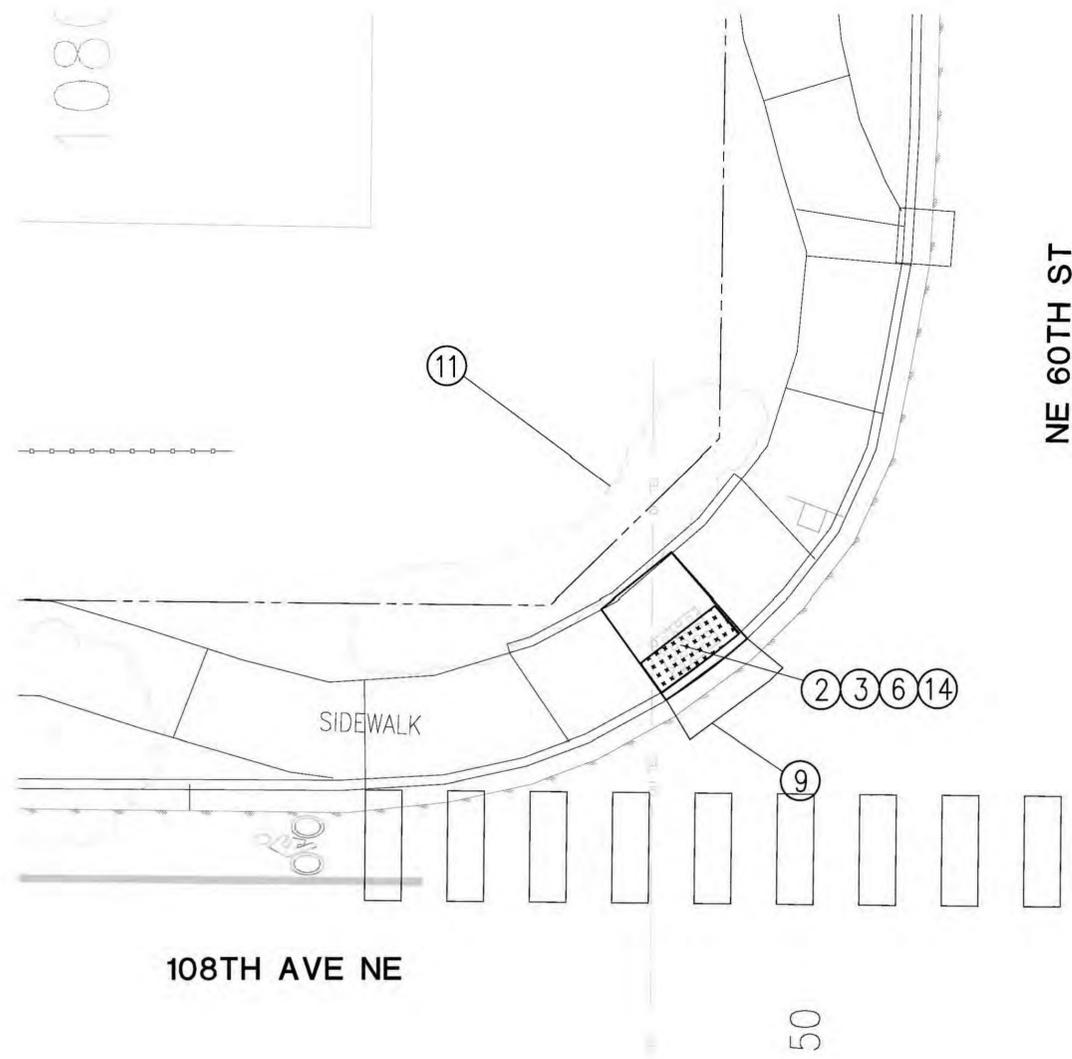
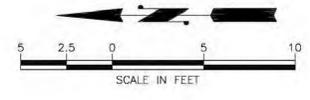
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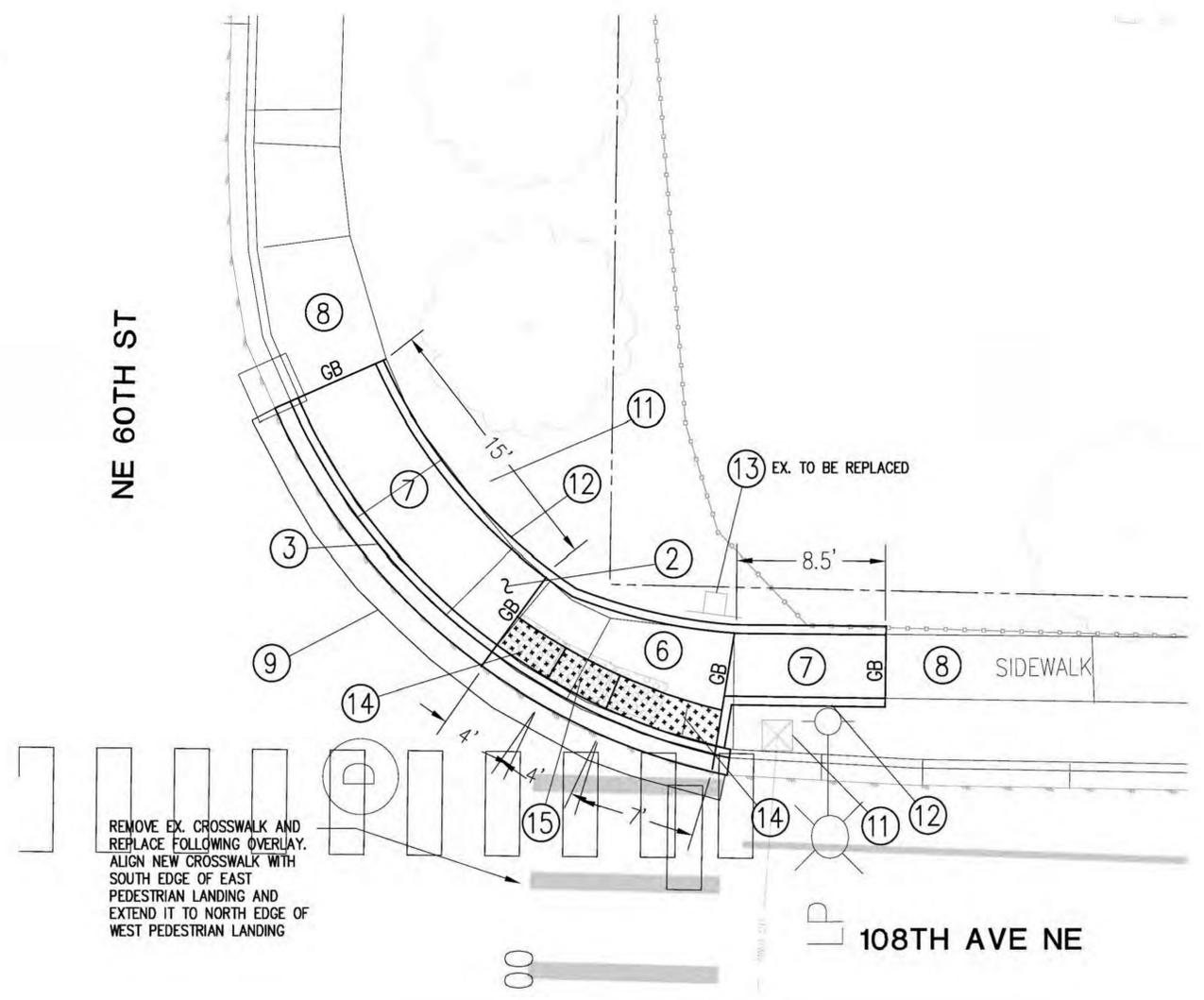
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108TH AVE NE SEWER AND WATER REPLACEMENT
ADA CURB RAMP REPLACEMENT
DETAILS

SHEET: 19 / 36
SCALE: SEE GRAPHIC SCALE
FILENAME: 801802 - DESIGN



PLAN - NE CORNER



PLAN - SE CORNER

ADA RAMP KEY NOTES
SEE SHEET 19.



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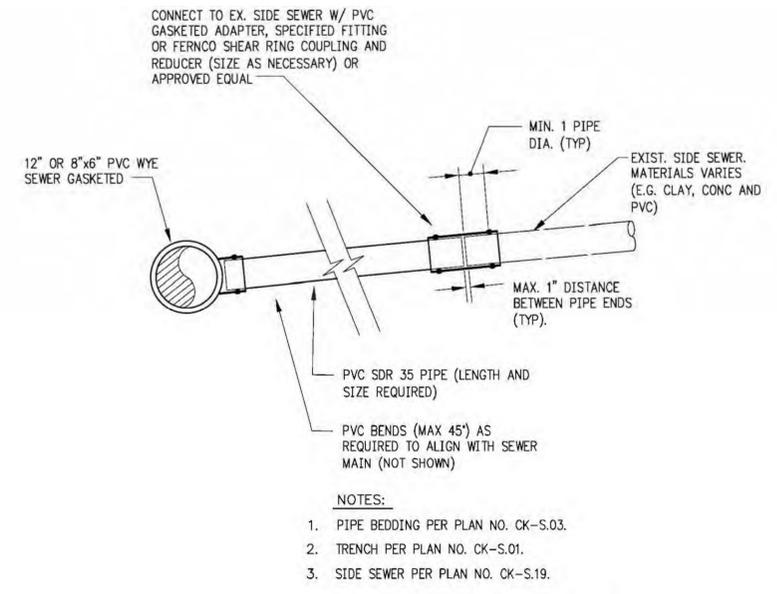
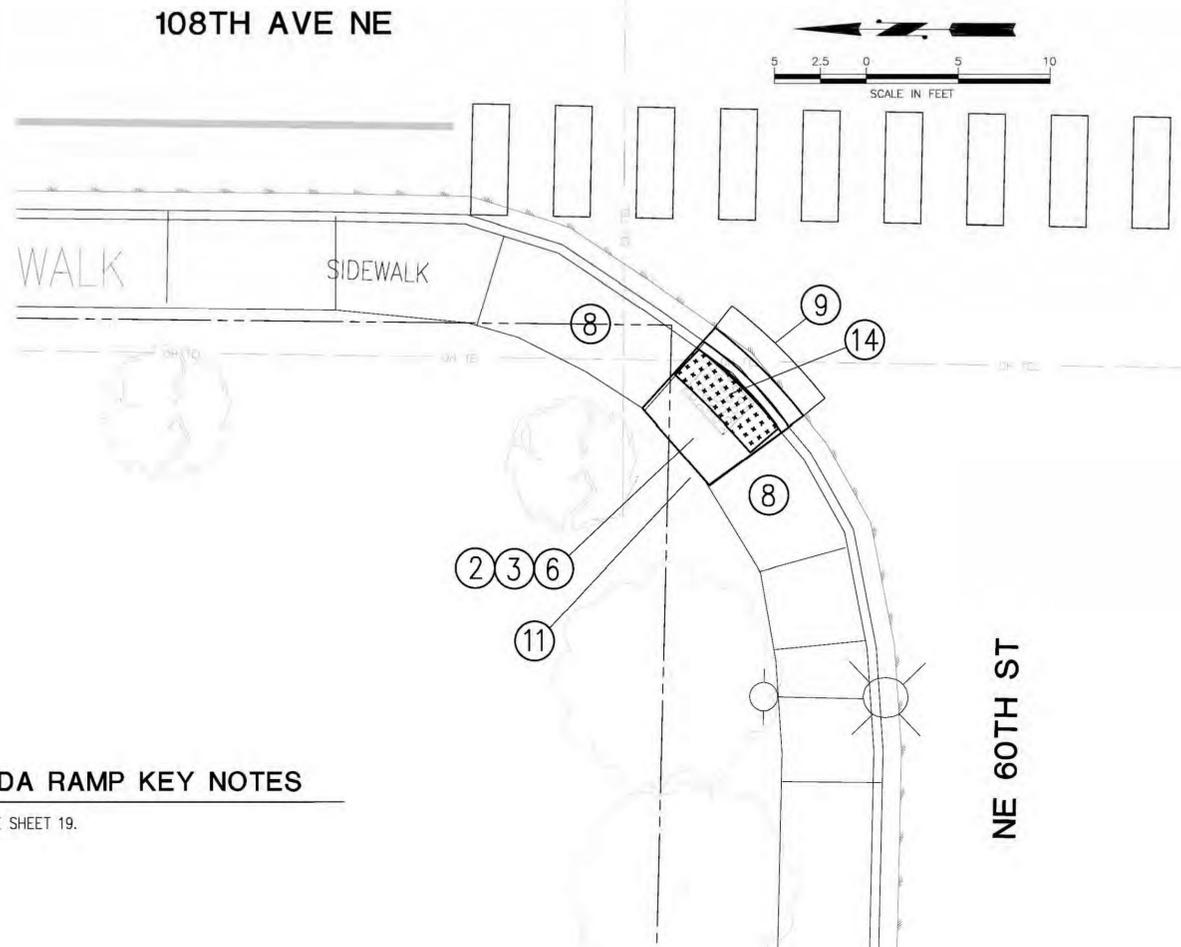


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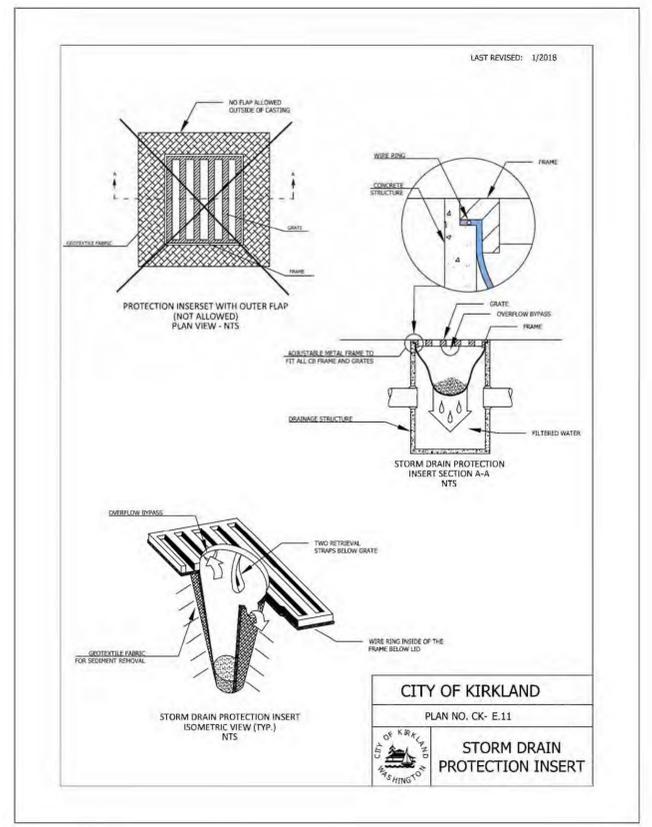
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108TH AVE NE SEWER AND WATER REPLACEMENT
**ADA CURB RAMP REPLACEMENT
DETAILS**

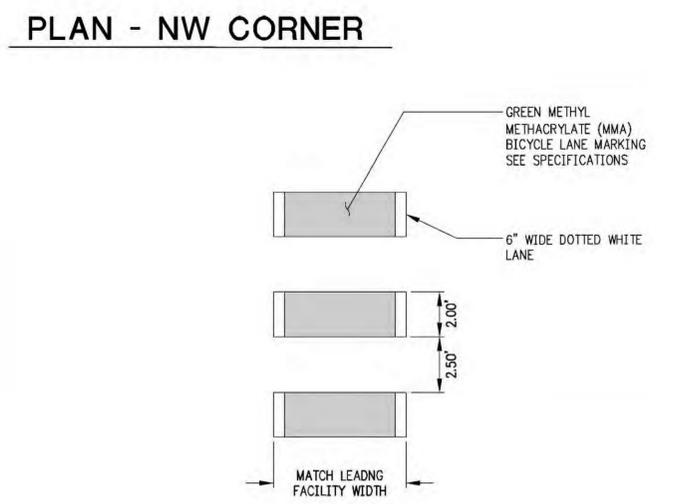
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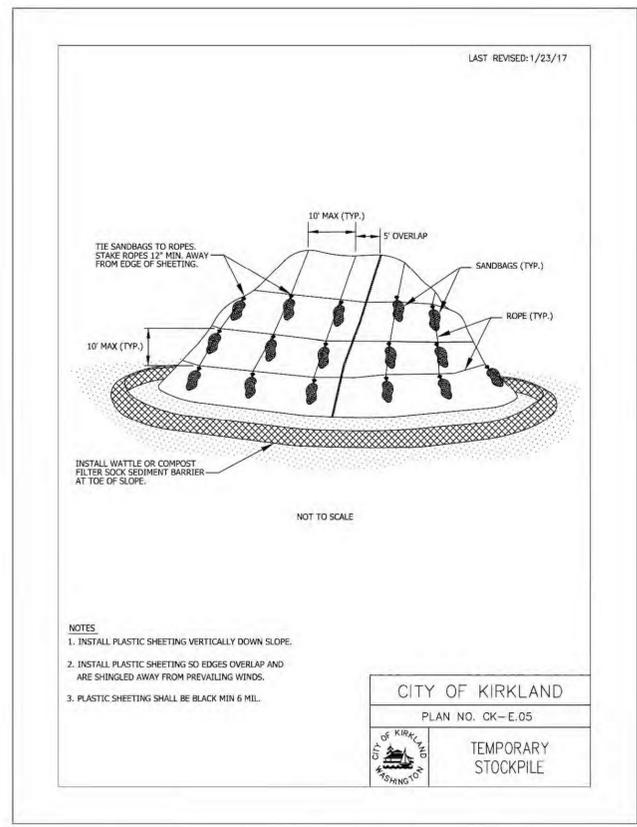
1
VAR
DETAIL - SIDE SEWER RECONNECTION
NOT TO SCALE



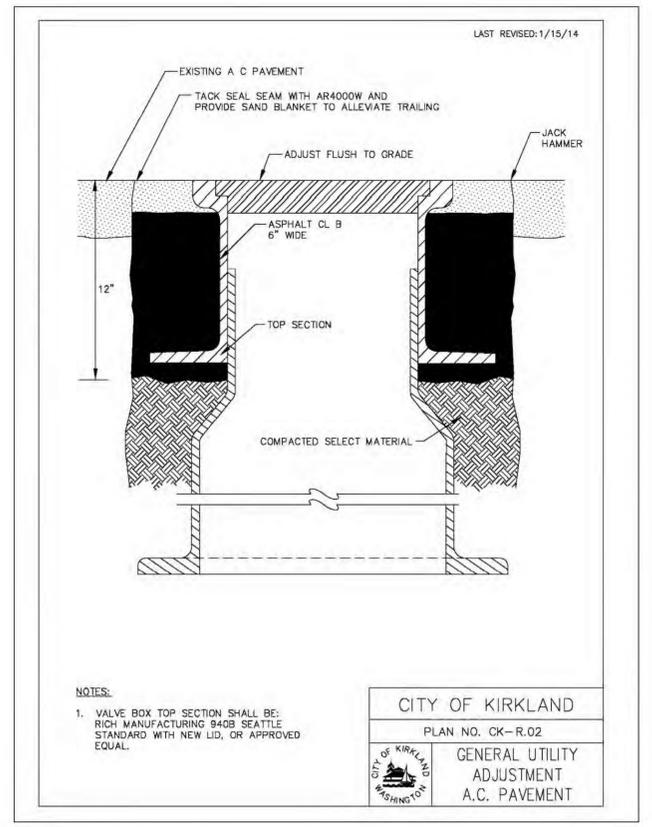
ADA RAMP KEY NOTES
SEE SHEET 19.



2
VAR
DETAIL - TYPICAL INTERSECTION CROSSING BIKE LANE PAVEMENT MARKING
NOT TO SCALE



CITY OF KIRKLAND
PLAN NO. CK-E.05
TEMPORARY STOCKPILE



CITY OF KIRKLAND
PLAN NO. CK-R.02
GENERAL UTILITY ADJUSTMENT A.C. PAVEMENT



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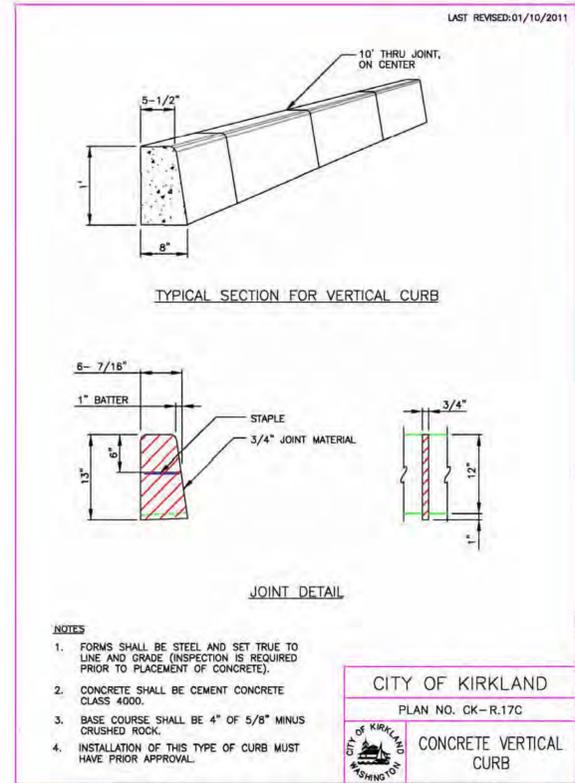
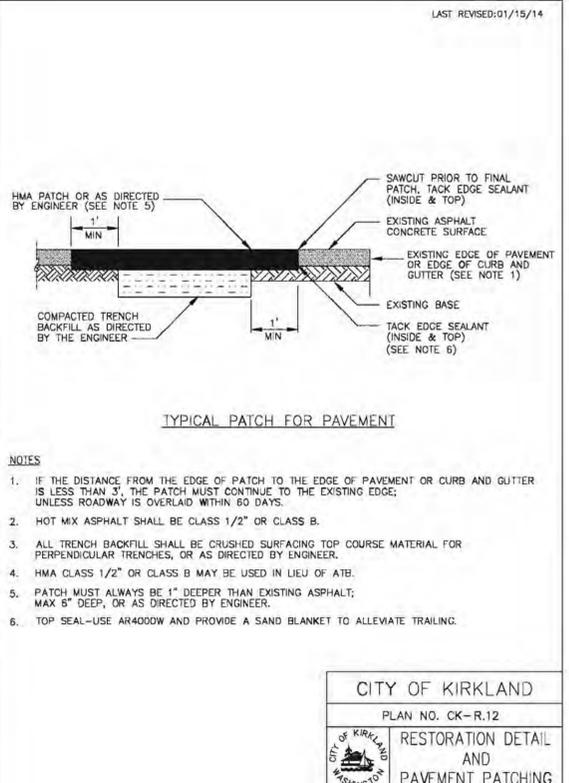
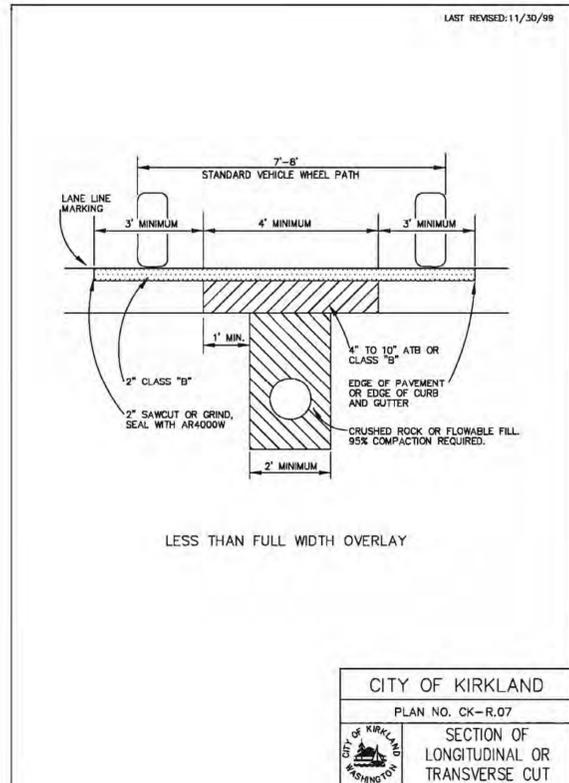
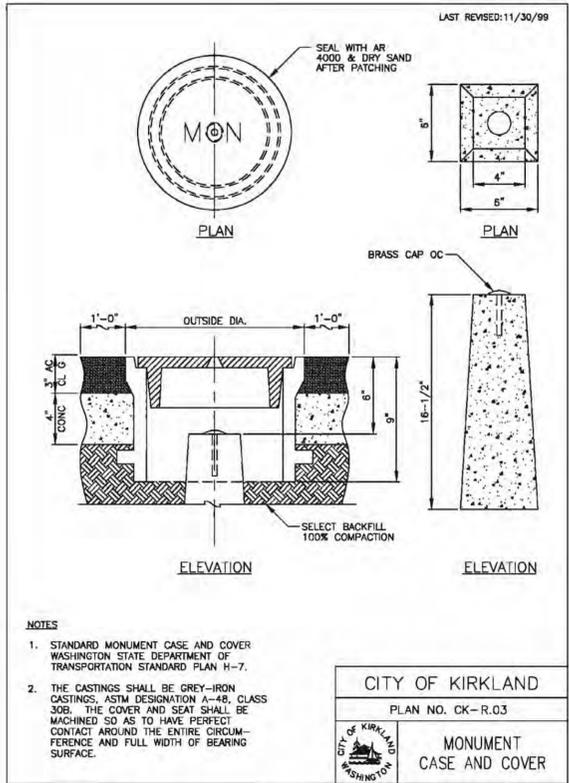
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108TH AVE NE SEWER AND WATER REPLACEMENT
ADA CURB RAMP REPLACEMENT
DETAILS AND
COK PRE- APPROVED PLANS

21 / 36
SCALE:
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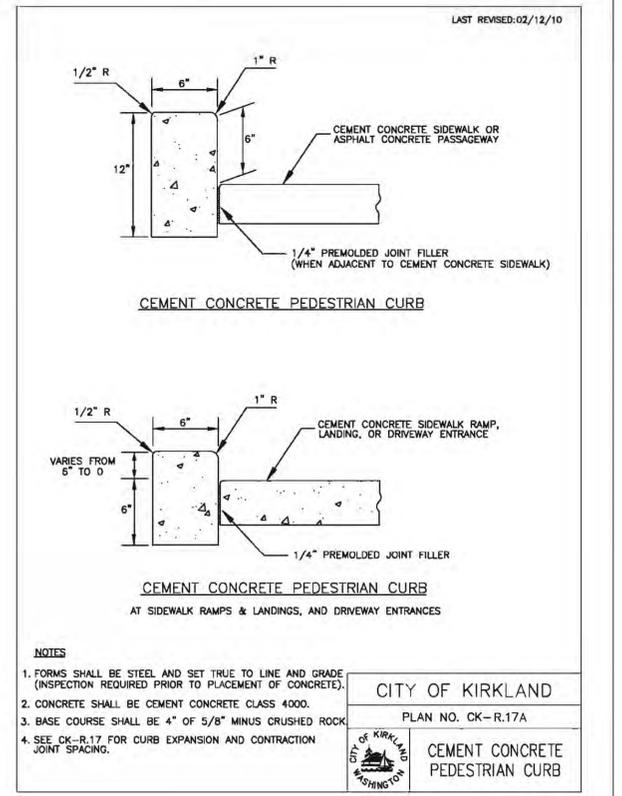
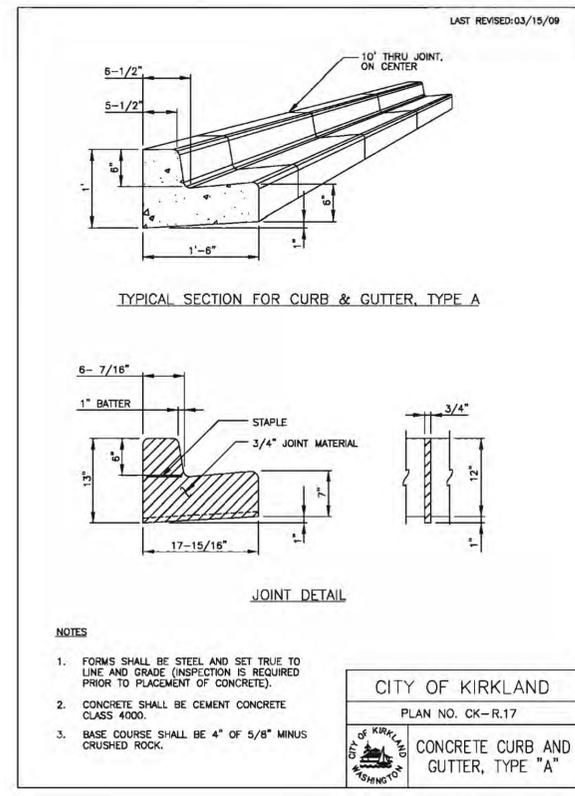
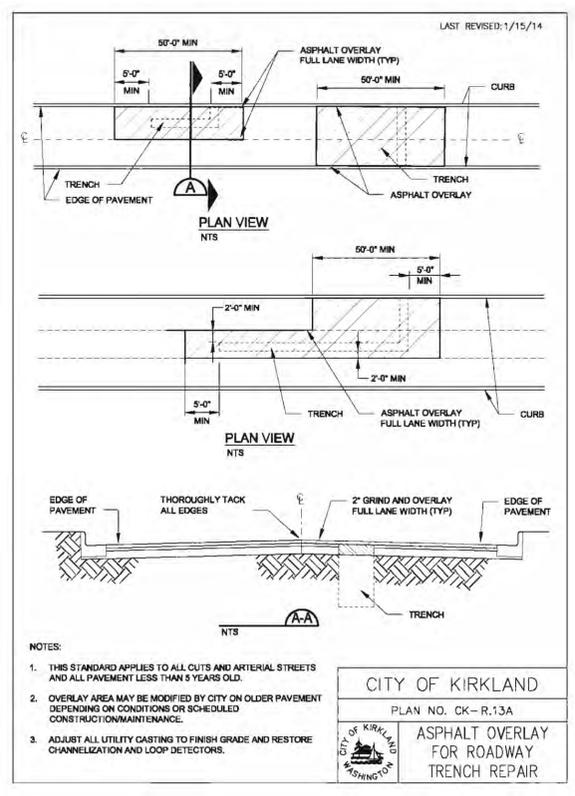
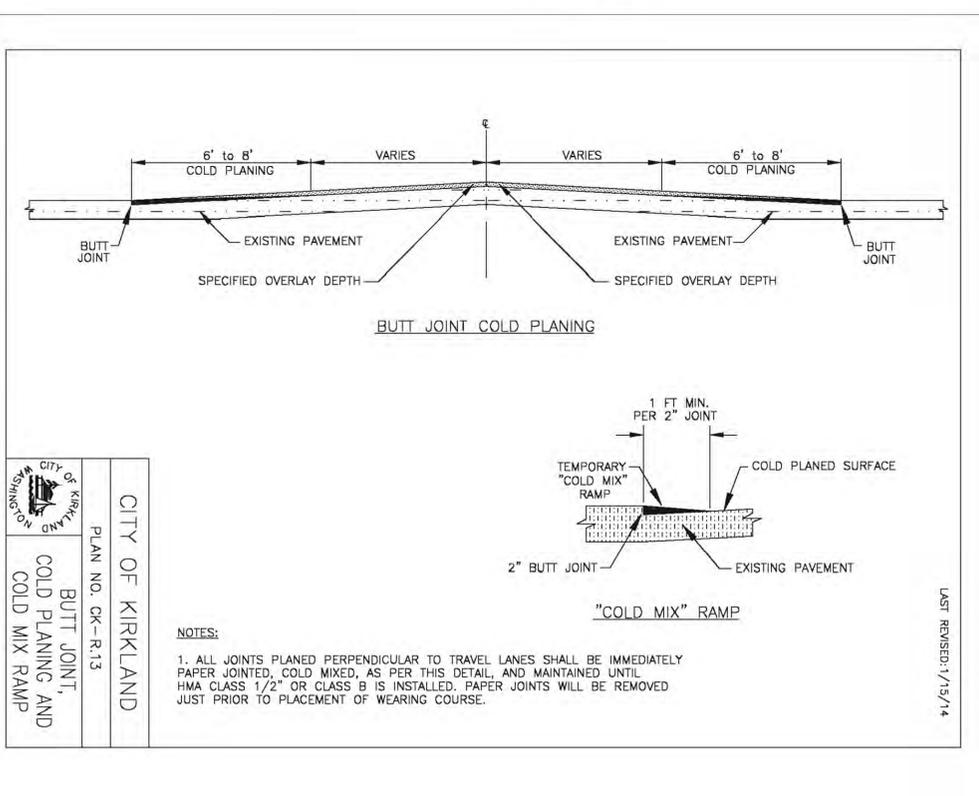


NOTES:

- PLAN NO. CK-R.07 SHALL APPLY TO ALL SEWER TRENCH BACKFILL AND RESTORATION. "2" CLASS B" FOR OVERLAY SHALL BE REVISED TO BE "3" CLASS B" AND OVERLAY SHALL APPLY FULL WIDTH OR TWO LANES WHERE SHOWN, OF ROADWAY (SCHEDULE C WORK). PAVEMENT RESTORATION SHALL BE EITHER 7" HMA OVER 5" CRUSHED SURFACING BASE COURSE (CSBC) OR 9" HMA OVER CSBC AS TRENCH BACKFILL (SCHEDULES A AND B), INSTEAD 2" CLASS B AND 4" TO 10" ATB OR CLASS B.
- PLAN NO. CK-R.12, NOTE 5, SHALL BE REVISED TO INDICATE EITHER 7" HMA OVER 5" CSBC OR 9" HMA OVER CSBC AS TRENCH BACKFILL.
- PLAN NO. CK-R.13A SHALL BE REVISED TO REFLECT PAVEMENT AND SUB-GRADE MATERIAL AND THICKNESS REVISION PER NOTE 1 ABOVE.
- PLAN NO. CK-R.13A SHALL BE REVISED TO REFLECT 3" PLANING AND OVERLAY.

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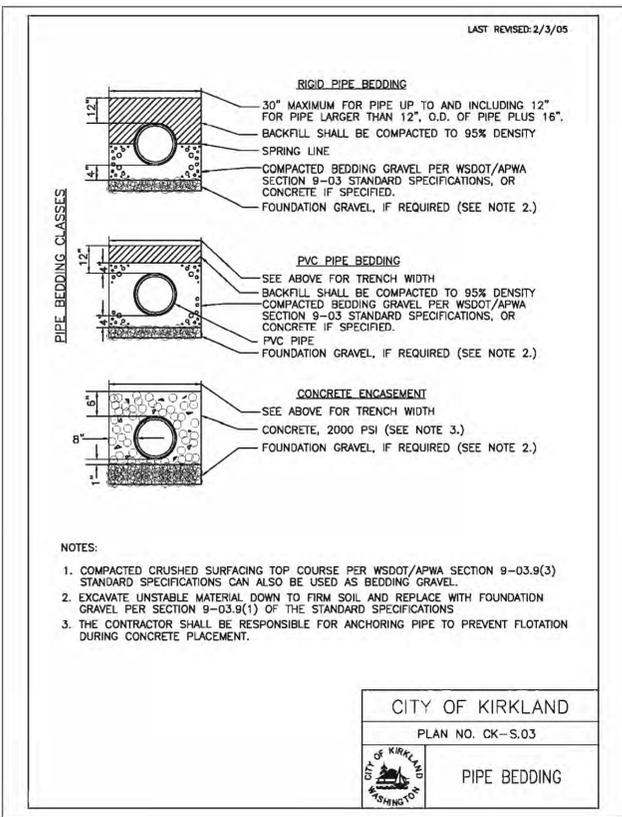
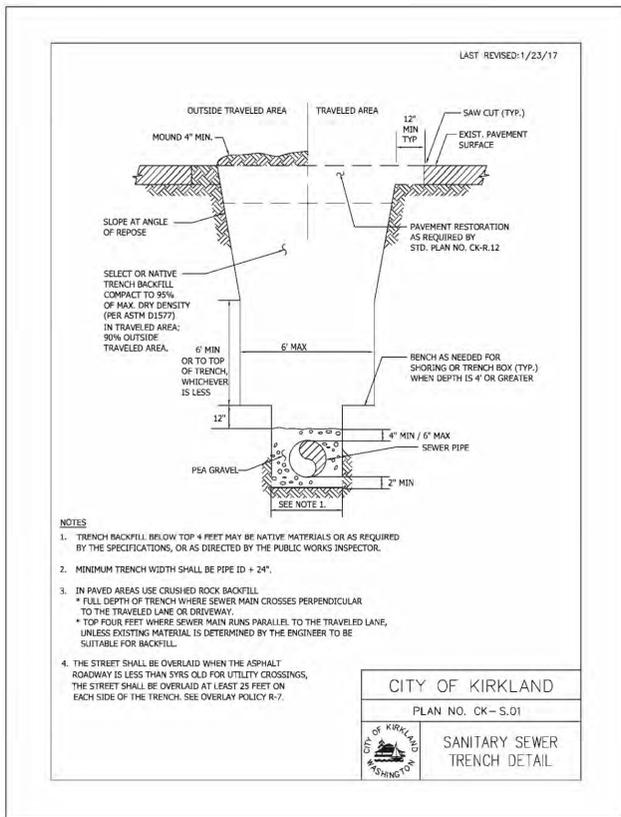
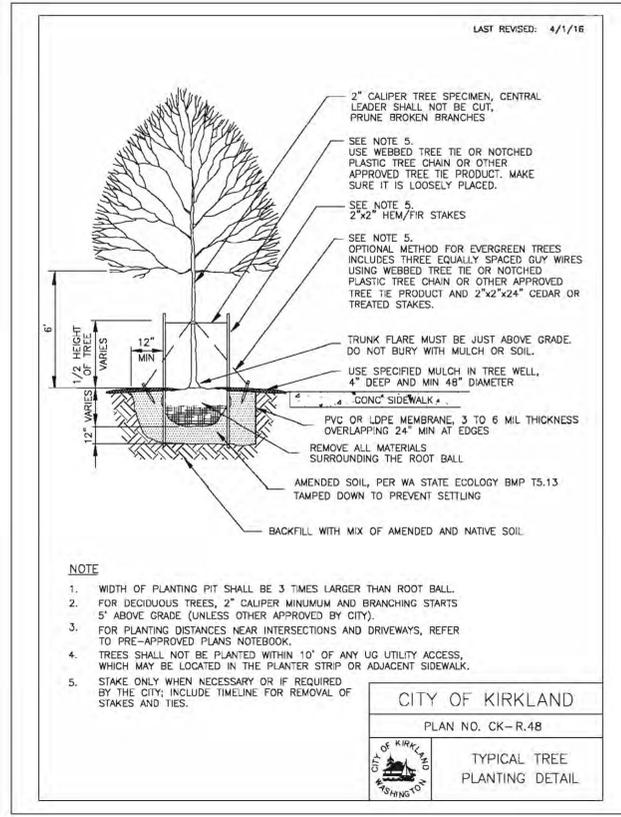
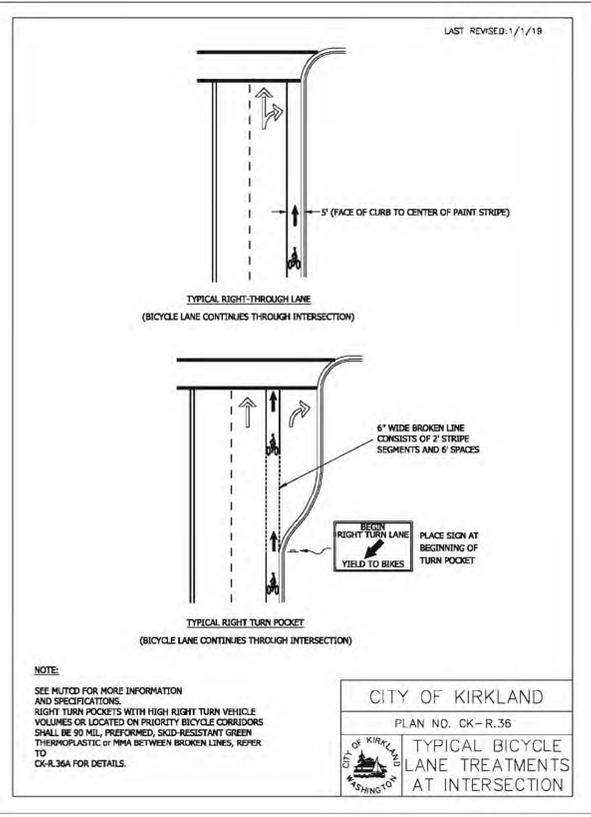
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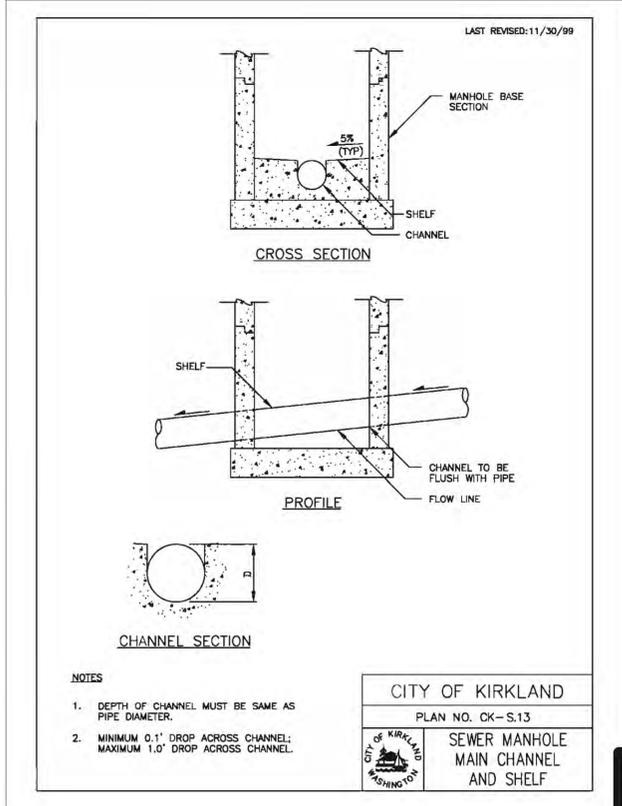
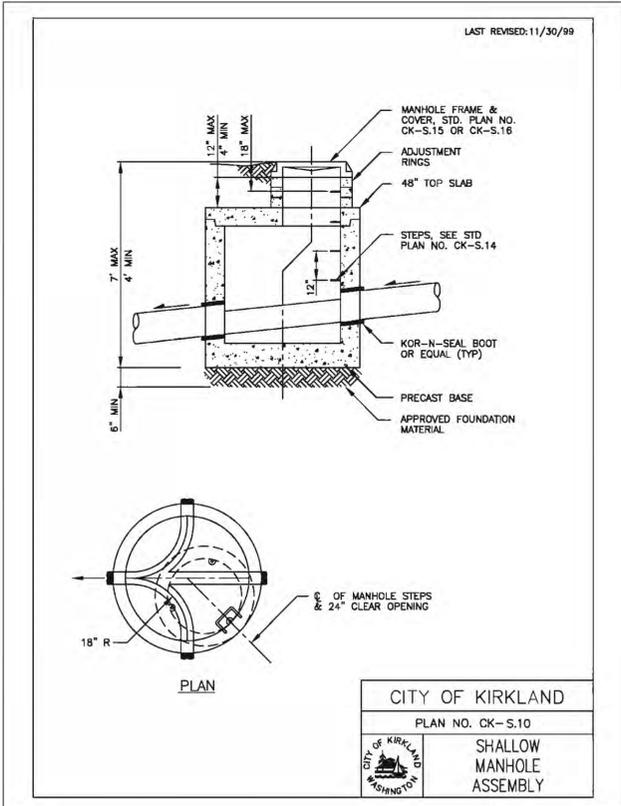
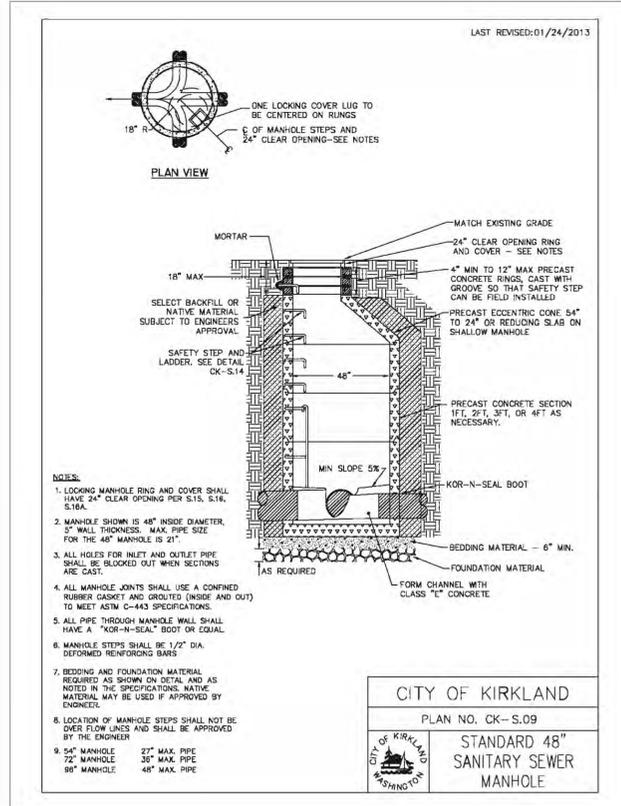
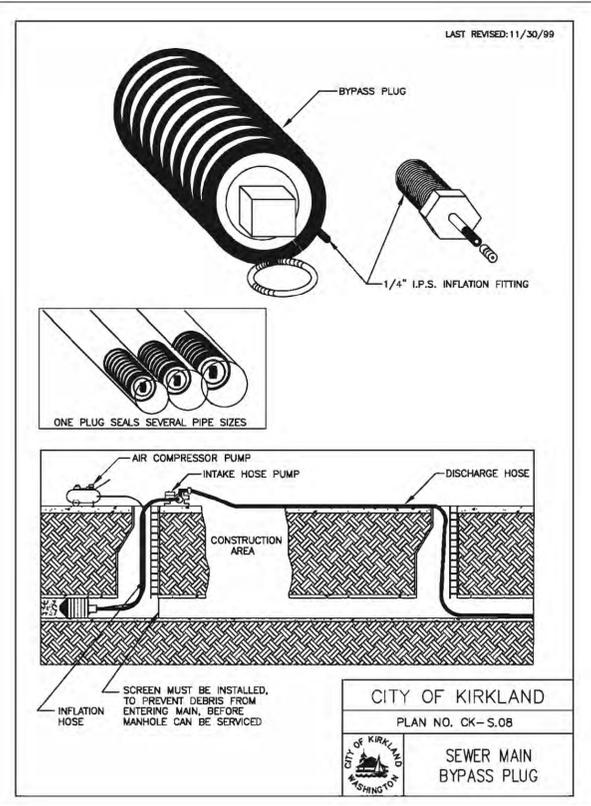
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108TH AVE NE SEWER AND WATER REPLACEMENT
COK PRE-APPROVED PLANS



NOTES:

1. PLAN NO. CK-S.01 SHALL BE REVISED TO USE 5/8" CSTC RATHER THAN PEA GRAVEL FOR PIPE BEDDING.
2. THE RIGHT TURN POCKET DETAIL PORTION OF PLAN NO. CK-R.36 IS NOT APPLICABLE



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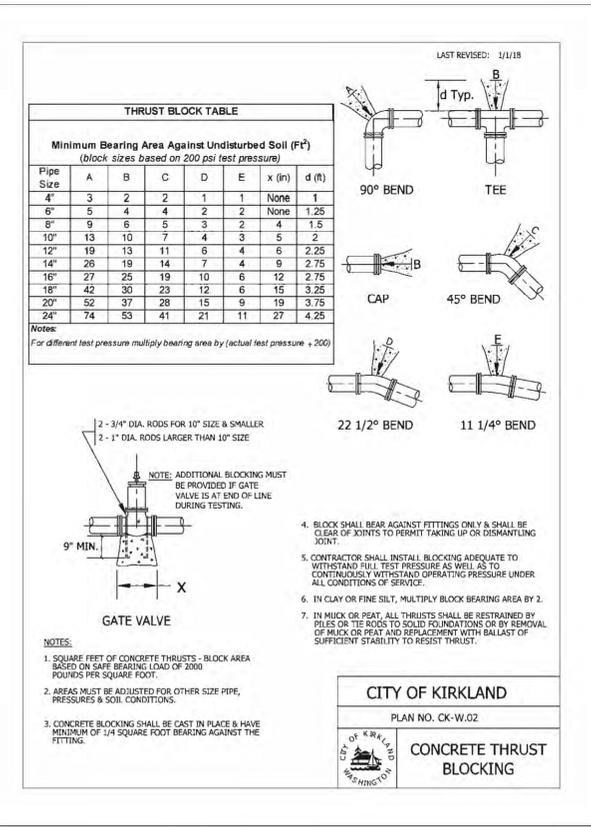
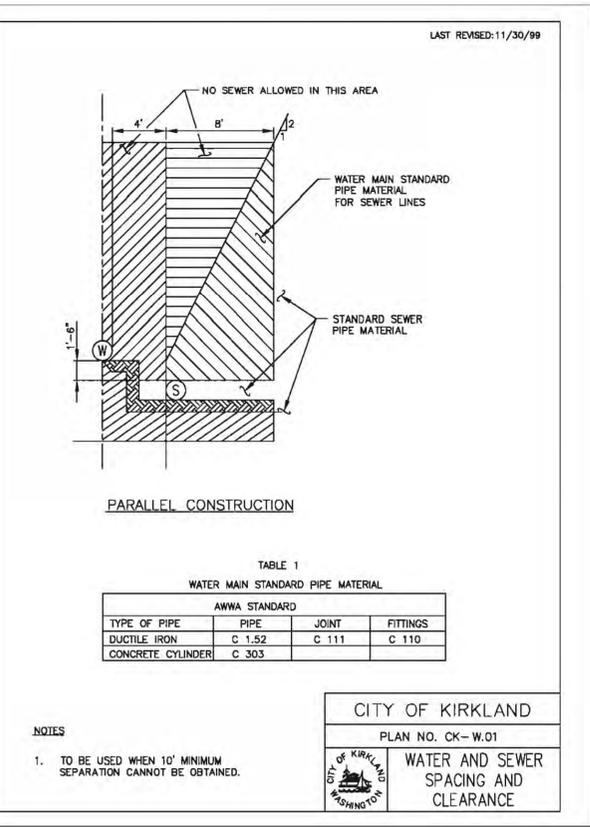
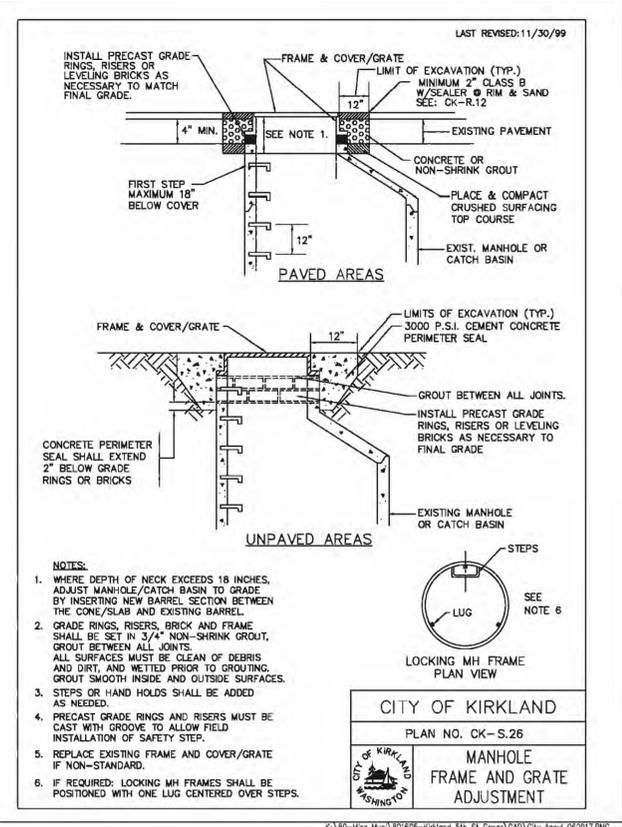
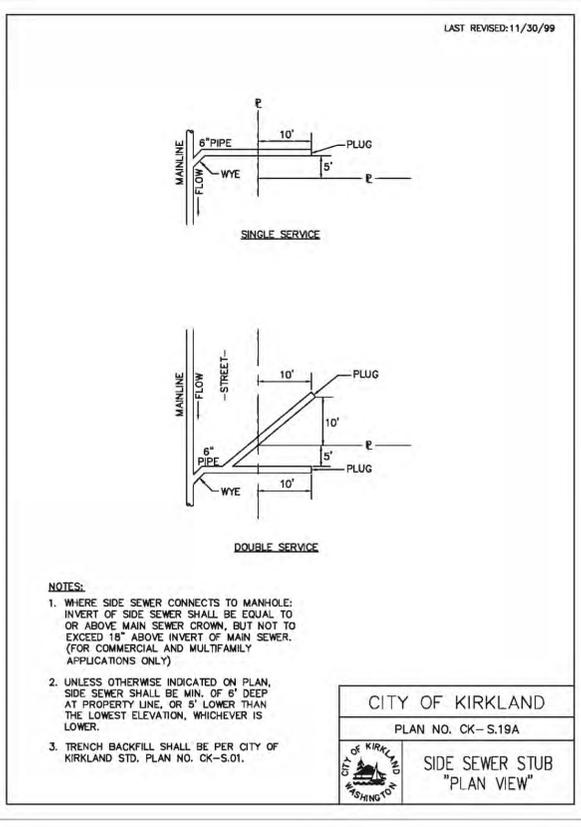
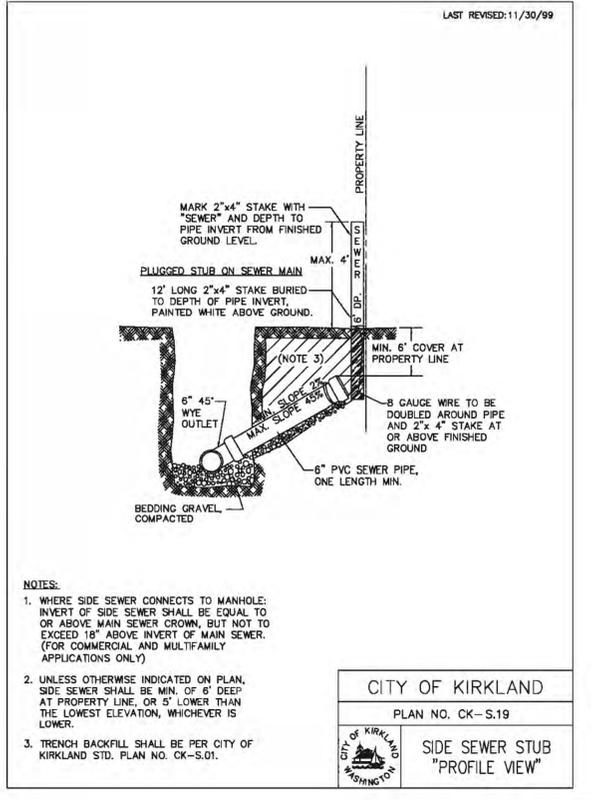
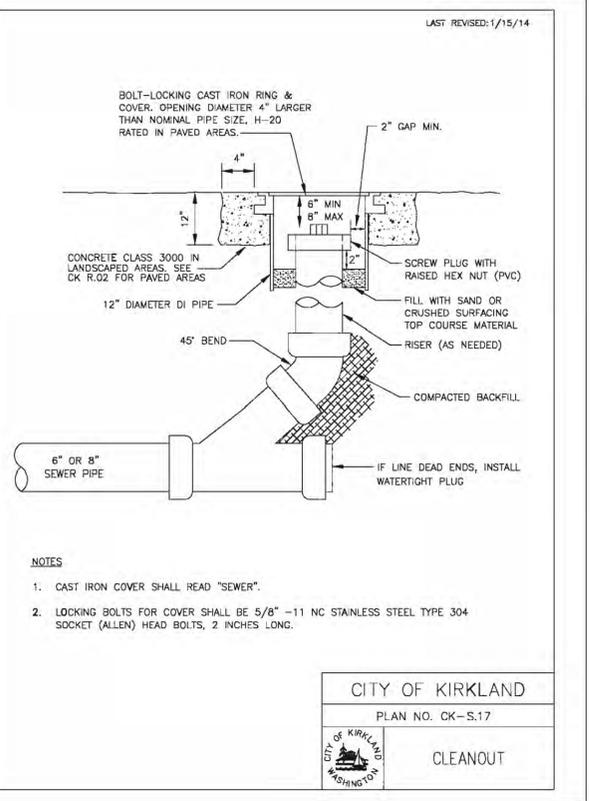
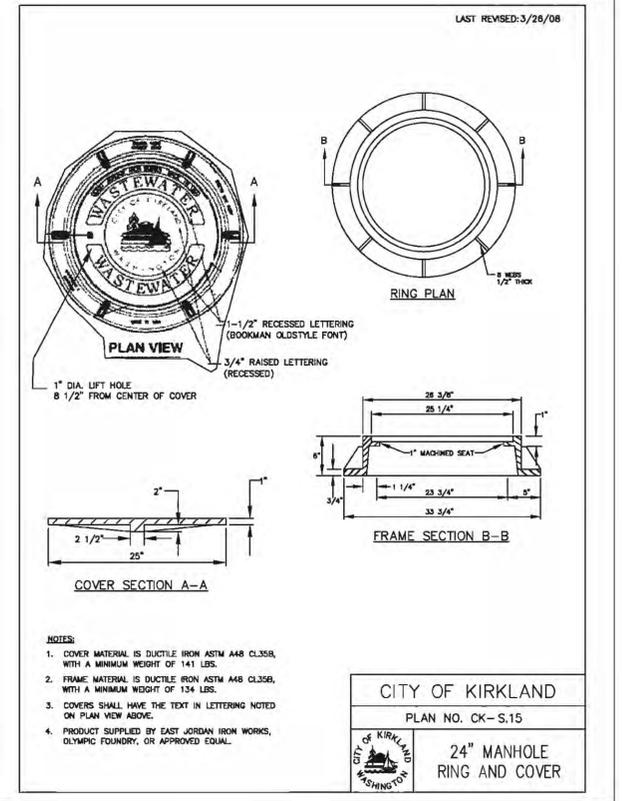
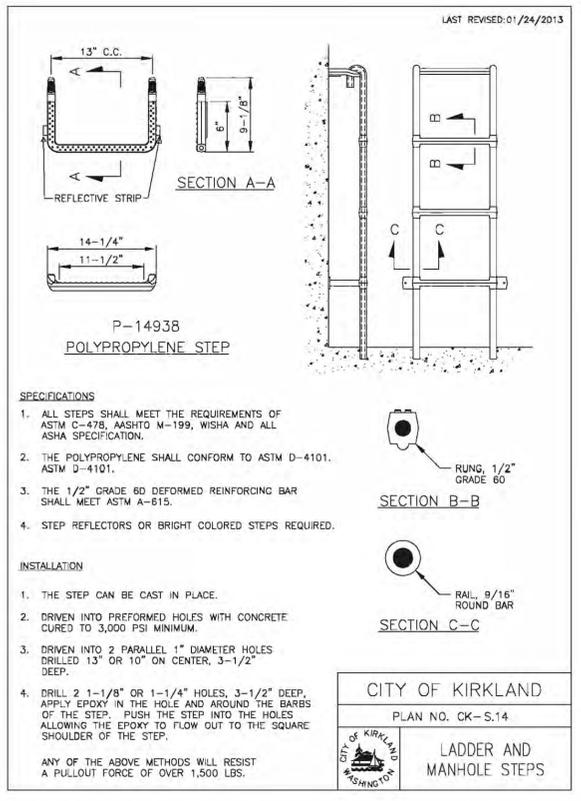


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108TH AVE NE SEWER AND WATER REPLACEMENT
COK PRE-APPROVED PLANS

SHEET: 24 / 36
SCALE: N/A
FILENAME: 801802 - DESIGN



NOTES:

- PLAN NO. CK-S-19 SHALL BE REVISED TO OMIT REQUIREMENT FOR 2"x4" STAKE WITH WIRE FOR EXISTING SIDE SEWERS.
- PLANS NO. CK-S-19 AND S.19A SHALL BE REVISED TO INCLUDE A SIDE SEWER CLEANOUT PER PLAN NO. CK-S-17. CLEANOUT SHALL BE LOCATED IN RIGHT OF WAY WITH CENTER OF CLEANOUT RISER WITHIN 12" OF PROPERTY LINE. SIDE SEWER CONSTRUCTION TO MAIN SHALL BE WITH A "WYE" FITTING, PIPE STUB 45° BEND, PER PLAN VIEW IN DETAIL.

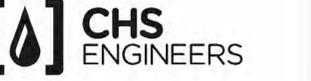
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108TH AVE NE SEWER AND WATER REPLACEMENT
COK PRE-APPROVED PLANS



LAST REVISED: 02/04/10

VERTICAL BLOCKING FOR 11 1/4"-22 1/2"-30" BENDS					
PIPE SIZE	V B	CU FT	A	D	L
4"	11 1/4"	8	2.0'	5/8"	1.5'
	22 1/2"	11	2.2'		2.0'
6"	11 1/4"	17	2.6'	5/8"	2.0'
	22 1/2"	25	2.9'		2.0'
8"	11 1/4"	16	2.5'	5/8"	2.0'
	22 1/2"	47	3.6'		2.0'
12"	30"	70	4.1'	3/4"	2.5'
	22 1/2"	88	4.5'	7/8"	3.0'
16"	11 1/4"	70	4.1'	7/8"	3.0'
	22 1/2"	184	5.7'	1 1/8"	4.0'
20"	11 1/4"	91	4.5'	7/8"	3.0'
	22 1/2"	225	6.1'	1 1/4"	4.0'
24"	11 1/4"	128	5.0'	1"	3.5'
	22 1/2"	320	6.8'	1 3/8"	4.5'
45"	45"	30	3.1'	5/8"	2.0'
		68	4.1'		
6"		123	5.0'		
8"		232	6.1'	3/4"	2.5'
12"		478	7.8'	1 1/8"	4.0'
16"		560	8.2'	1 1/4"	
20"		820	9.4'	1 3/8"	4.5'
24"					

VERTICAL BLOCKING FOR 11 1/4", 22 1/2" & 30" BENDS

VERTICAL BLOCKING FOR 45" BENDS

NOTES:
1. CONCRETE BLOCKING BASED ON 200 PSI PRESSURE AND 3000 PSI CONCRETE.

CITY OF KIRKLAND
PLAN NO. CK-W.03
VERTICAL THRUST BLOCKING

LAST REVISED: 1/10/2011

FINISHED GRADE

STD CAST IRON VALVE BOX (RICH OR EQUAL #940)

2" SQUARE OPERATING NUT W/ 1/4" THICK ROUND PLATE WELDED TO NUT AND EXTENSION STEM

1" DIA MILD STEEL OR DOUBLE EXTRA STRONG PIPE EXTENSION STEM

2" SQUARE NUT SOCKET MADE FROM 1/4" STEEL PLATE

VALVE ASSEMBLY

5" MAX (SEE NOTE 1)
VARIES
SEE NOTE 2

1/4" STEEL PLATE

2"

1/4"

FILLET WELD (TYP)

EXTENSION DETAIL

NOTE:
1. VALVE EXTENSIONS ARE ONLY REQUIRED IF DEPTH FROM FINISHED GRADE TO TOP OF OPERATING NUT IS GREATER THAN 5 FEET.
2. WHEN AN EXTENSION IS USED, THE DEPTH FROM EXTENSION OPERATING NUT TO FINISHED GRADE SHALL NOT BE LESS THAN 3 FEET.

CITY OF KIRKLAND
PLAN NO. CK-W.05
WATER VALVE EXTENSION

LAST REVISED: 11/30/99

PLACE END SPACER MAXIMUM OF ONE (1) FOOT FROM END OF CASING (TYP.)

STEEL PIPE CASING (MILL PIPE) OR DUCTILE IRON

MAXIMUM DISTANCE BETWEEN SPACERS SHALL BE TEN (10) FEET O.C.

SAND FILLED CASING

CASING SPACERS SHALL BE MAXIMUM OF ONE (1) FOOT FROM EACH SIDE OF PIPE JOINT (TYP.)

SEAL END OF CASING WITH ASPHALT, CLASS B, COLD MIX OR MANUFACTURED RUBBER END SEAL DEVICE

CARRIER PIPE (DUCTILE IRON)

CASING SPACERS (SEE APPROVED MATERIALS LIST)

CARRIER PIPE DIAMETER	4"	6"	8"	10"	12"
CASING DIAMETER (PUSH-ON JOINT CARRIER PIPE)	10"	12"	14"	16"	20"
CASING DIAMETER (MJ/MEGALUG JOINT CARRIER PIPE)	14"	16"	18"	20"	22"
STEEL CASING THICKNESS	0.25"	0.25"	0.25"	0.25"	0.25"
SPACER BAND WIDTH	8"	8"	12"	12"	12"

* 24" FOR DUCTILE IRON CASING.

ANTICORROSION COATING THICKNESS:
CARRIER - 8 MILLS DFT
CASING - 8 MILLS DFT

NOTES:
1. CASING SPACERS SHALL BE "CENTER POSITIONING" TYPE.
2. MINIMUM RUNNER WIDTH SHALL BE 2 INCHES.
3. RUNNER HEIGHT SHALL BE SIZED TO PROVIDE:
A. MINIMUM 0.75" BETWEEN CARRIER PIPE BELL AND CASING PIPE WALL AT ALL TIMES.
B. MINIMUM 1" CLEARANCE BETWEEN RUNNERS AND TOP OF CASING WALL TO PREVENT JAMMING DURING INSTALLATION.
4. STEEL CASING DIAMETERS ARE "OUTSIDE DIAMETER" FOR 16" AND LARGER.

CITY OF KIRKLAND
PLAN NO. CK-W.07
CASING INSTALLATION

LAST REVISED: 02/01/10

2-1/2" CONTROL VALVE

2" HYDRANT METER RENTED FROM CITY

HYDRANT ON EXISTING WATER MAIN

DOUBLE CHECK VALVE ASSEMBLY

SUPPLY HOSE

NEW HYDRANT BLOW-OFF ASSEMBLY, OR TEMPORARY FLUSHING CONNECTION

HOSE BIBB FAUCE SAMPLE

TEMPORARY BLOCKING

NEW WATER MAIN

TEMPORARY CAP OR PLUG

3" MIN - 10" MAX

EXISTING WATER MAIN WITH NEW VALVE(S) CUT IN OR WET TAPPED

DISCHARGE/FLUSHING

NOTES:
1. AN APPROVED BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED BETWEEN THE EXISTING AND NEW WATER LINES DURING DISINFECTION AND FLUSHING OF NEW WATERMAIN.
2. THE BACKFLOW PREVENTION ASSEMBLY AND SUPPLY HOSE MUST BE DISCONNECTED DURING HYDROSTATIC PRESSURE TESTING OF THE NEW MAIN.
3. THE NEW WATERMAIN SHALL BE CONNECTED TO THE EXISTING SYSTEM ONLY AFTER NEW MAIN IS FLUSHED, DISINFECTED AND SATISFACTORY BACTERIOLOGICAL SAMPLE RESULTS ARE OBTAINED.
4. THE INTERIORS OF ALL PIPES AND FITTINGS TO BE USED IN FINAL CONNECTION MUST BE SWABBED OR SPRAYED WITH A 1% AVAILABLE CHLORINE SOLUTION.
5. 2" HYDRANT METER SHALL BE OBTAINED FROM THE CITY OF KIRKLAND PUBLIC WORKS DEPARTMENT.
6. DISCHARGE FLUSHING TO SEWER ONLY. PROVIDE AIR GAP AT DISCHARGE.

CITY OF KIRKLAND
PLAN NO. CK-W.10
FILLING NEW WATER MAINS

LAST REVISED: 11/30/99

LEVEL WITH BOTTOM FLANGE OF HYDRANT OR 3" - 5" ABOVE FINISHED GRADE

HYDRANT GUARD POST SHALL BE 6" DIA BY 6" LONG PRECAST CONCRETE POST EQUAL TO FOG-TITE METER SEAL CO. PAINT WITH TWO COATS OSHA SAFETY YELLOW ENAMEL.

CONCRETE BACKFILL TO 6" FROM GROUND WHERE SPECIFIED. EARTH BACKFILL COMPACTED IN 4" LAYERS ELSEWHERE.

3"-Ø MIN RADIUS OF LEVEL GROUND AROUND FIRE HYDRANT

ELEVATION

PLAN

VALVE MARKER POST SHALL BE EQUAL TO FOG-TITE METER CO. PAINT AS SPECIFIED FOR HYDRANT GUARD POST. PAINT DISTANCE FROM VALVE MARKER TO THE VALVE ON THE POST WITH NEATLY STENCILLED BLACK ENAMEL NUMBERS, 1" IN HEIGHT.

FRONT VIEW (FOR BLOW-OFF ASSEMBLY)

FRONT VIEW (FOR GATE VALVE)

VALVE MARKER POST

NOTES:
1. GUARD POSTS TO BE INSTALLED ONLY AS DIRECTED BY CITY OF KIRKLAND.
2. VALVE MARKERS TO BE USED FOR BLOW OFF AND MAINLINE VALVES OUTSIDE PAVED AREAS.

CITY OF KIRKLAND
PLAN NO. CK-W.13
HYDRANT PROTECTION AND VALVE MARKER POST

LAST REVISED: 01/1/18

PUMPER PORT TO BACK OF SIDEWALK SHALL BE MINIMUM OF 1' OR AS DIRECTED BY FIRE DEPARTMENT

CONCRETE PAD 2' DIA x 4" THICK (ONLY IN NON-PAVED AREAS)

DO NOT BLOCK DRAIN HOLES

BURY

HYDRANT

SEE STANDARD DETAIL CK-W.05

6" D.I. TEE M3 X M3 X FL

1/2 YARD WASHED DRAIN ROCK (3" TO 3/8") MIN. 1" ABOVE FOOT FLANGE. PLACE 8 MIL POLYETHYLENE FILM AROUND TOP AND SIDES OF GRAVEL.

4"x6"x16" MIN. SIZE CONC. BLOCK UNDER HYDRANT AND VALVE.

NOTES:
1. 1.5-1/4" M.V.O. HYDRANT WITH 2-2 1/2" N.S.T. AND 1-4" PUMPER, SEATTLE STANDARD. THREAD-M.I. INLET, WITH LUGS, BRASS TO BRASS SUB-SEAT.
2. 1-AUXILIARY GATE VALVE: 6" AWWA C509 OR C515, RESILIENT SEAT, "O" RING STEM SEAL, M3.XFL. WITH LUGS.
3. 1-TWO-PIECE CAST IRON VALVE BOX WITH LOCKING BOLTS EQUAL TO RICH SEATTLE TYPE #940.
4. 1-6" DUCTILE IRON CLASS 52 CEMENT-LINED PIPE, LENGTH TO FIT.
5. 2-3/4" GALVANIZED STEEL SHACKLE RODS, TAR SEALED AFTER ASSEMBLY.
6. 1/4" CY - 1:3:6 CONCRETE MIX, POUR IN PLACE TO BLOCK. MAINTAIN CLEARANCE FOR BOLTS.
7. 5" X 4" FEMALE SEATTLE STANDARD THREAD RIGID 5" STORZ ADAPTOR WITH ALL CAPS AND CHAINS OR CABLES. ADAPTOR MATERIAL TO BE ANODIZED ALUMINUM.

NOTES:
1. FIRE HYDRANT EXTENSION, IF REQUIRED.
2. FIRE HYDRANT TO BE PAINTED WITH TWO COATS OF HIGH GLOSS OSHA SAFETY YELLOW ENAMEL PAINT.
3. INSTALL BLUE - TYPE 2 R.P.M. ON STREET SURFACE ADJACENT TO MAIN PORT.

CITY OF KIRKLAND
PLAN NO. CK-W.14
FIRE HYDRANT ASSEMBLY

LAST REVISED: 1/1/18

WITH OR WITHOUT SIDEWALK

PLANTER STRIP

CURB & GUTTER

APPROVED METER BOX ASSEMBLY (PER PLAN NO. CK-W.21 OR W.22)

INSTALLATION IN PLANTER STRIP 3' OR WIDER

PLANTER STRIP

SIDEWALK

CURB & GUTTER

APPROVED METER BOX ASSEMBLY (PER PLAN NO. CK-W.21 OR W.22)

INSTALLATION BEHIND SIDEWALK

SIDEWALK

CURB & GUTTER

EXPANSION JOINT MATERIAL

6" MIN.

APPROVED METER BOX (PER PLAN NO. CK-W.23 OR W.25 AS APPLICABLE TO SERVICE SIZE) WITH SOLID METAL TRAFFIC LID SET FLUSH WITH SIDEWALK SURFACE.

METER BOX TO BE INSTALLED IN SIDEWALK COMPLETELY 6" FROM EDGE

INSTALLATION IN SIDEWALK

NOTES:
1. ALL FITTINGS MUST BE FORD OR EQUAL.
2. TRACER WIRE FROM MAIN TO SERVICE METER MUST BE INSTALLED IN ALL INSTALLATIONS. WIRE MUST BE WRAPPED AROUND ANGLE STOP AND THE CORPORATION STOP, WITH LAST 8" STRIPPED.
3. POLY SERVICE LINE IS TO BE CONTINUOUS FROM MAIN TO METER NO SPLICES OF ANY KIND.
4. POLY PIPE TO BE 3" FROM MAIN TO METER.
5. METERS SHALL NOT BE LOCATED IN CONCRETE OR ASPHALT PAVING UNLESS UNAVOIDABLE.
6. THE ANGLE STOP SHALL BE IN A POSITION THAT RESULTS IN THE METER BEING CENTERED DIRECTLY BENEATH THE METER READING LID.

CITY OF KIRKLAND
PLAN NO. CK-W.17
WATER METER PLACEMENT DETAILS

LAST REVISED: 10/15/18

6'-10"

36" MIN

METER LENGTH 5/8"x3/4" 7-1/2" 10-3/4"

NOT TO BE INSTALLED WHEN REPLACING AN EXISTING SERVICE TO A BUILDING THAT DID NOT HAVE ONE INSTALLED PREVIOUSLY (SEE STANDARD 11)

NOT TO SCALE

DESCRIPTION	MAKER OR TYPE	1"
1. SINGLE STRAP SADDLE	STAINLESS ROMAC OR EQUAL	101 1PT
2. CORP STOP	FORD OR EQUAL	FB101-4-G-NL
3. ANGLE STOP	FORD OR EQUAL	5863-44W-G-NL
4. INSERTS	FORD OR EQUAL	#72 STAINLESS STEEL
5. POLY PIPE	POLYETHYLENE ASTM D2239	JPS-SOR-7(FE3408)
6. METER BOX	CARSON OR EQUAL	CK-W.21 (OR W.23 W/APPROVAL)
7. TRACER WIRE	CU SOLID WIRE	14 GAUGE
8. CHECK VALVE		CITY TO INSTALL*
9. METER		CITY TO INSTALL*
10. 1" x 3/4" METER ADAPTOR (FOR 5/8 x 3/4" MTR)	FORD OR EQUAL #A24	CITY TO INSTALL UNLESS A CIP PROJECT
11. 1" METER	FORD OR EQUAL L31-44	CONTRACTOR TO INSTALL
	FORD OR EQUAL L31-24	*UNLESS A CIP PROJECT

NOTES:
1. ALL FITTINGS MUST BE FORD OR EQUAL.
2. TRACER WIRE FROM MAIN TO SERVICE METER MUST BE INSTALLED IN ALL INSTALLATIONS. WIRE MUST BE WRAPPED AROUND ANGLE STOP AND THE CORPORATION STOP, WITH LAST 8" STRIPPED.
3. POLY SERVICE LINE IS TO BE CONTINUOUS FROM MAIN TO METER NO SPLICES OF ANY KIND.
4. POLY PIPE TO BE 3" FROM MAIN TO METER.
5. METERS SHALL NOT BE LOCATED IN CONCRETE OR ASPHALT PAVING UNLESS UNAVOIDABLE.
6. THE ANGLE STOP SHALL BE IN A POSITION THAT RESULTS IN THE METER BEING CENTERED DIRECTLY BENEATH THE METER READING LID.

CITY OF KIRKLAND
PLAN NO. CK-W.18
5/8"x3/4" & 1" WATER METER SERVICE INSTALLATION



CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS
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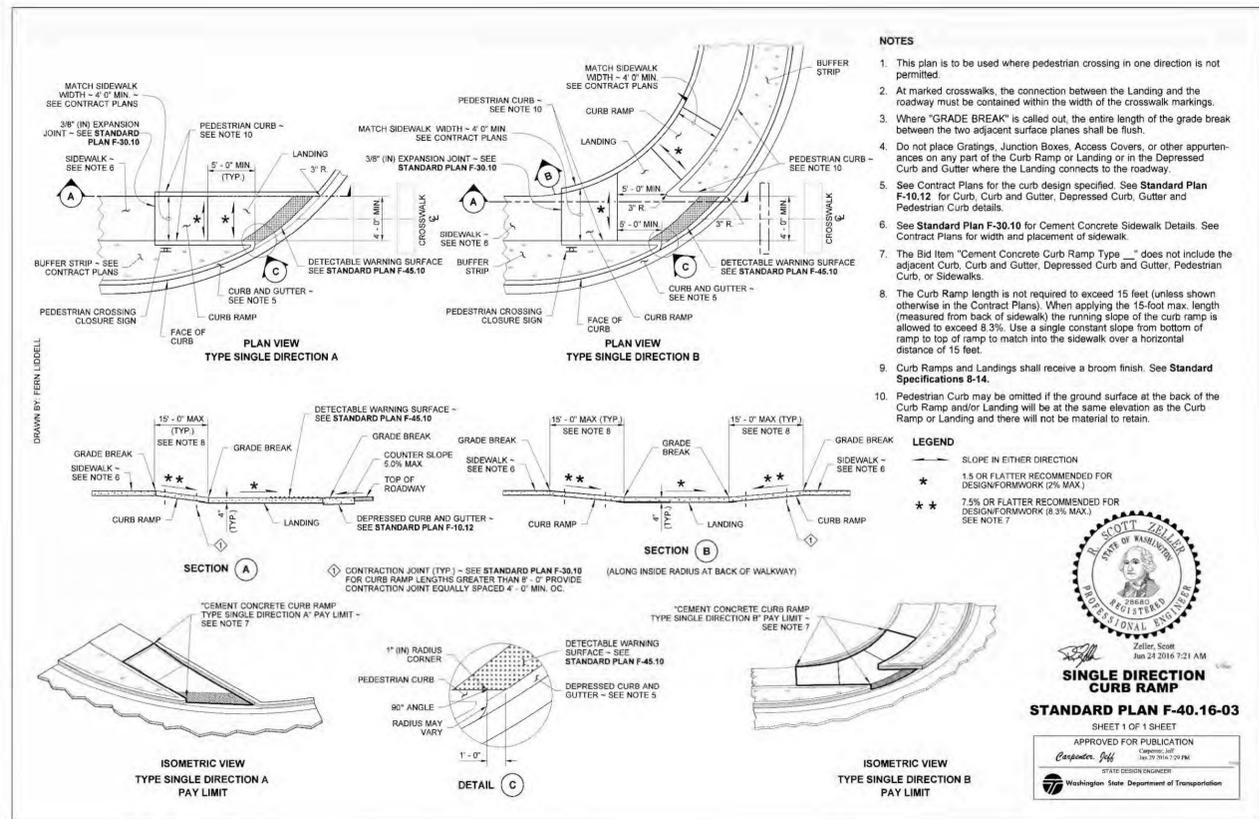
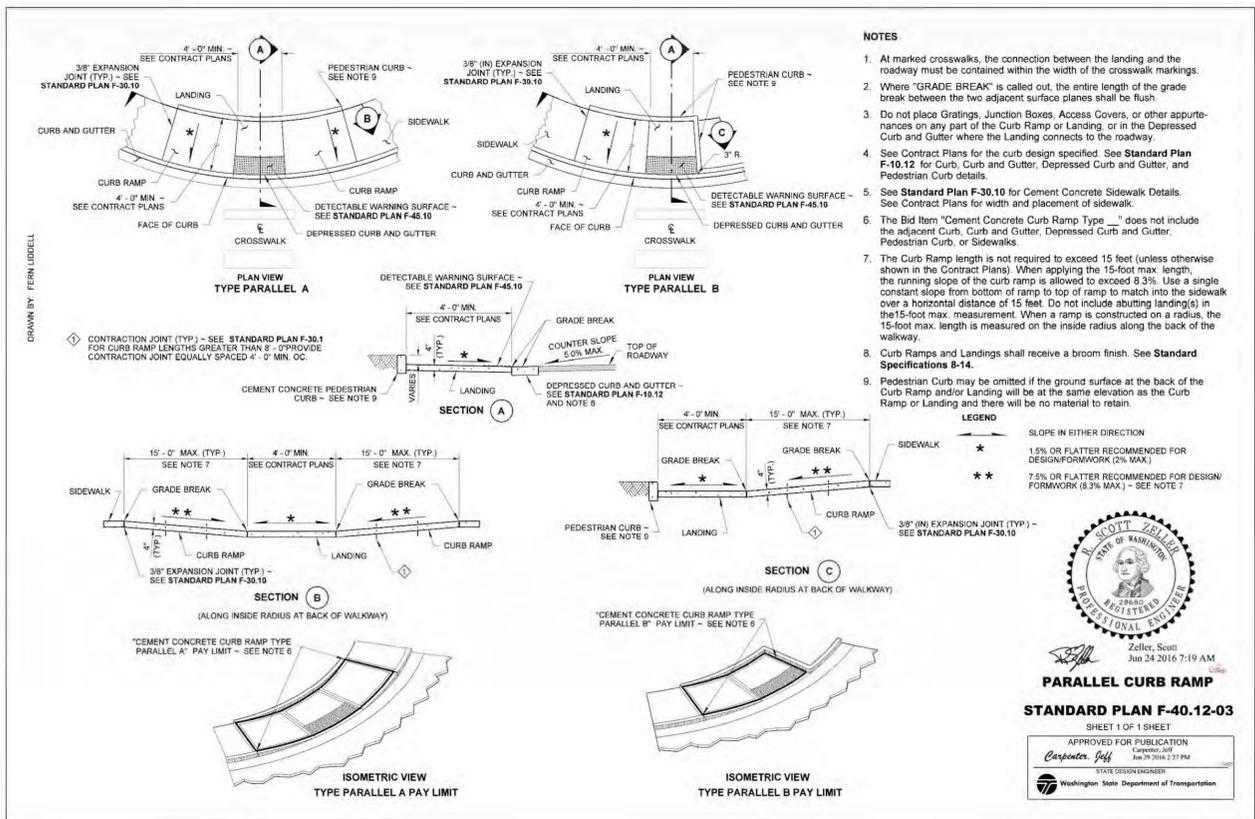


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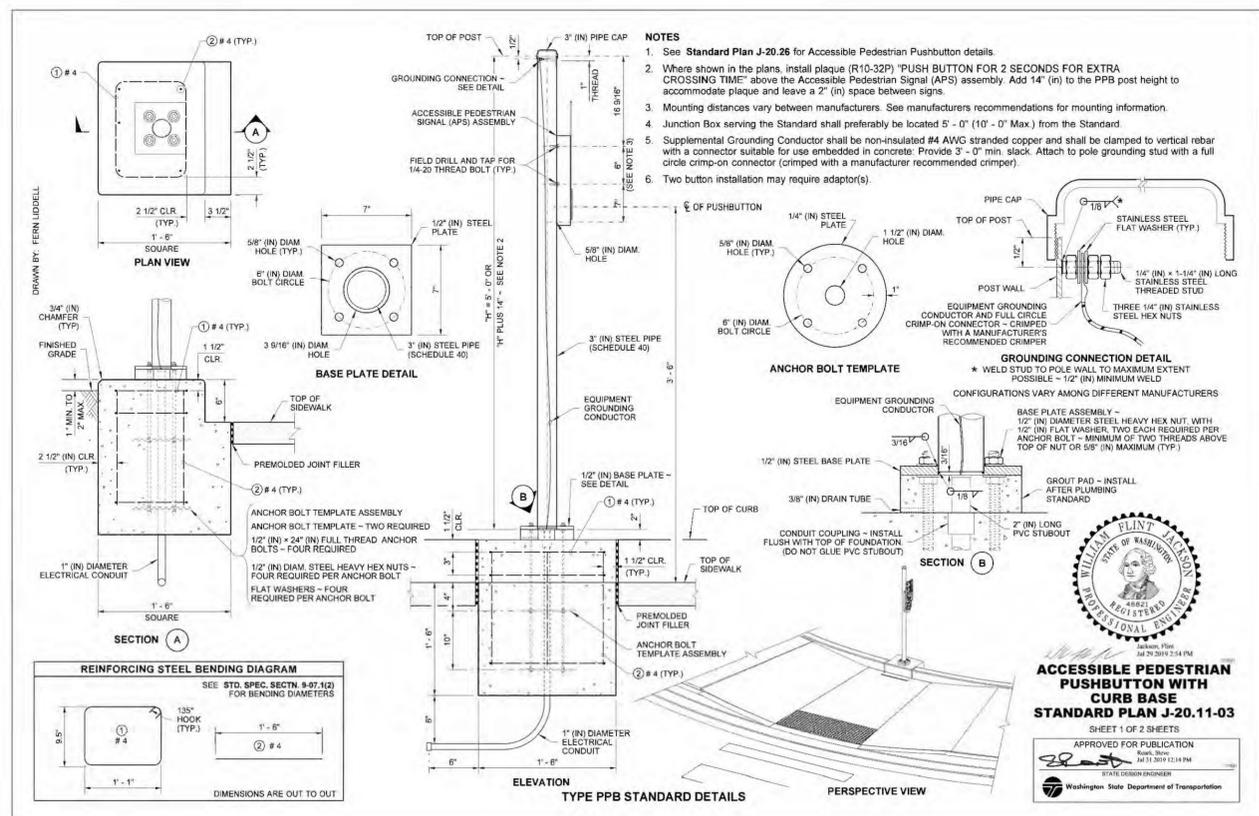
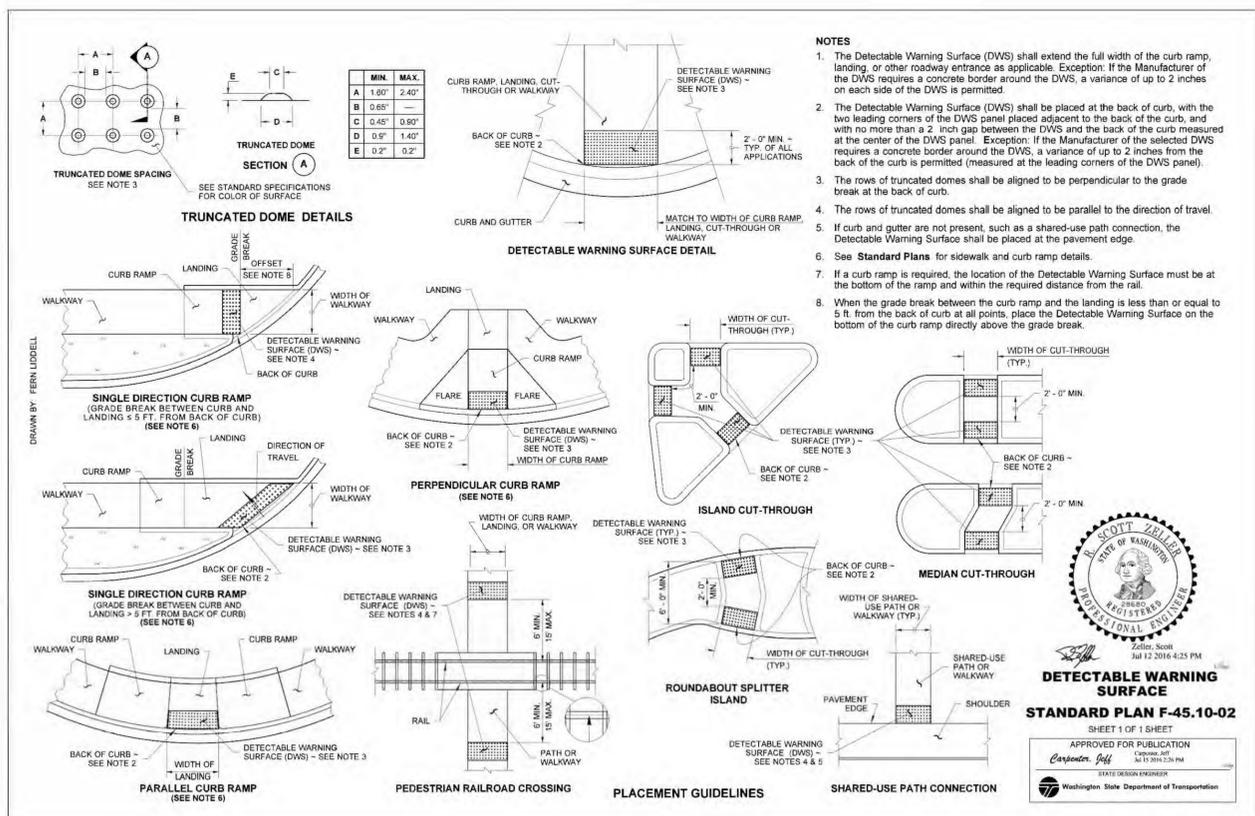
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CHECKED BY:	DATE

108TH AVE NE SEWER AND WATER REPLACEMENT
COK PRE-APPROVED PLANS

SHEET: 26 / 36
SCALE: NTS
FILENAME: 801802 - DESIGN



NOTE; REFERENCES IN WSDOT STANDARD PLANS TO CURB, CURB AND GUTTER, DEPRESSED CURB AND GUTTER OR PEDESTRIAN CURB SHALL BE REVISED TO KIRKLAND PRE-APPROVED PLANS AS AVAILABLE FOR SUCH WORK.



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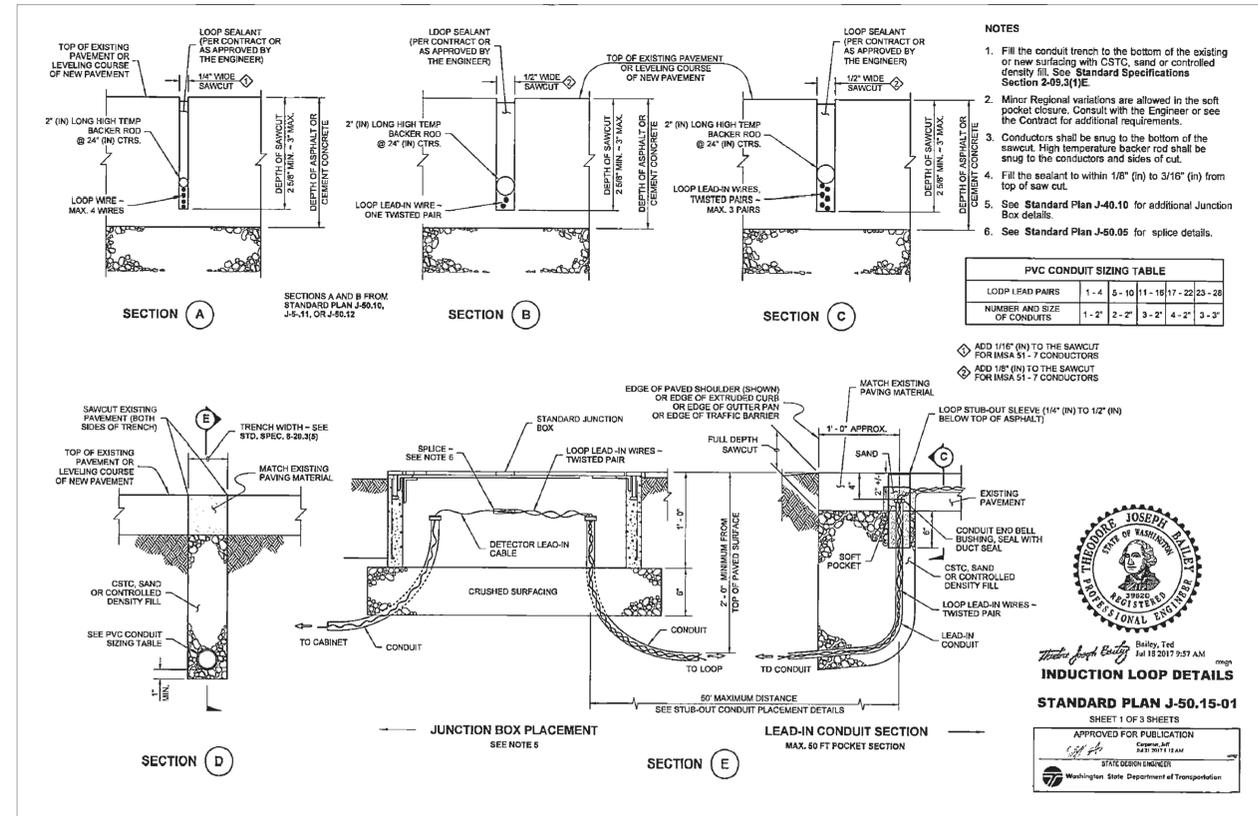
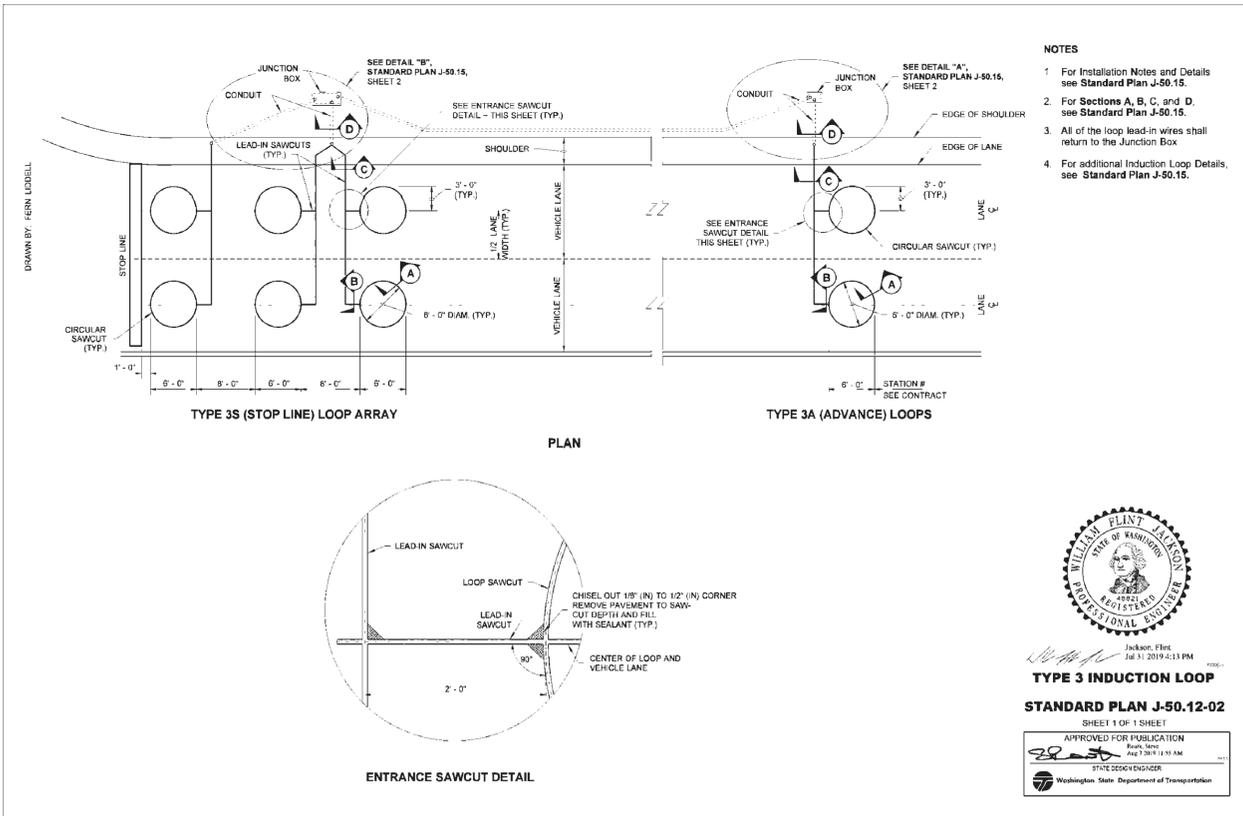
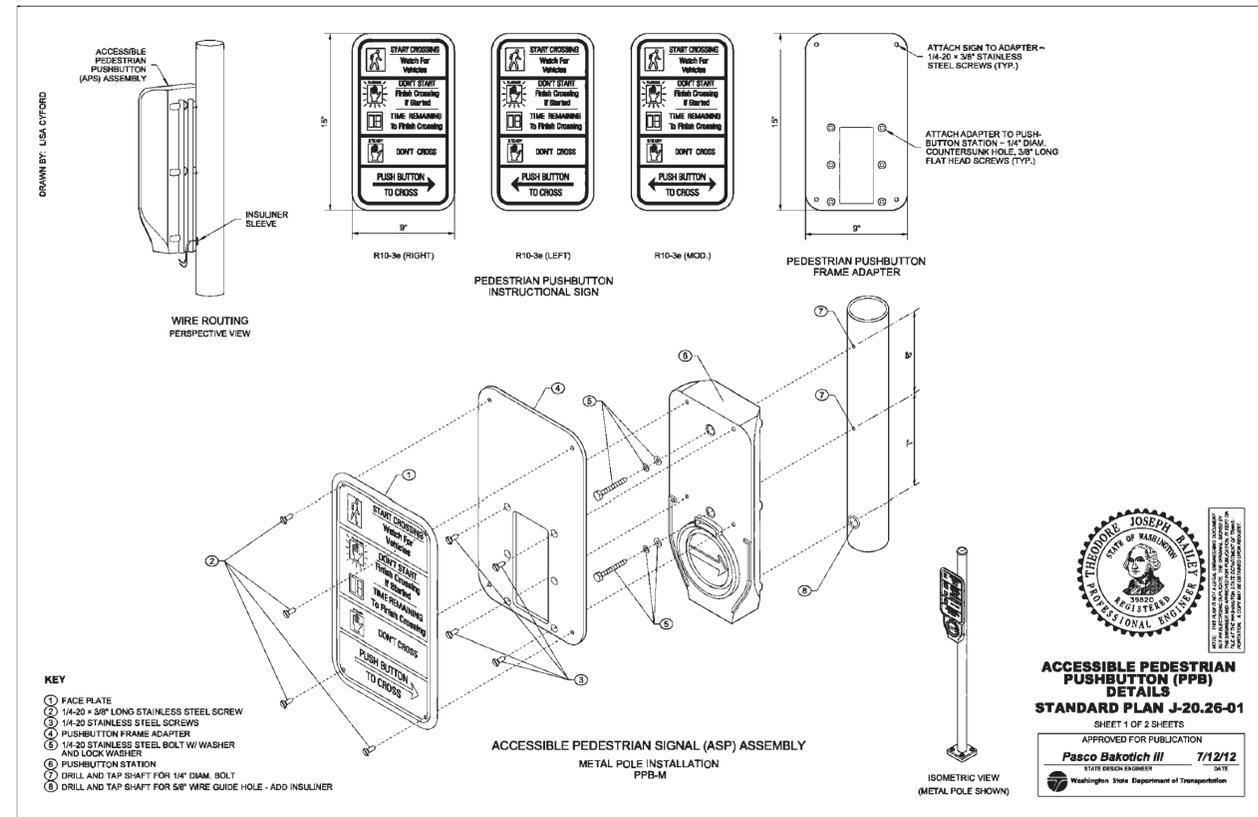
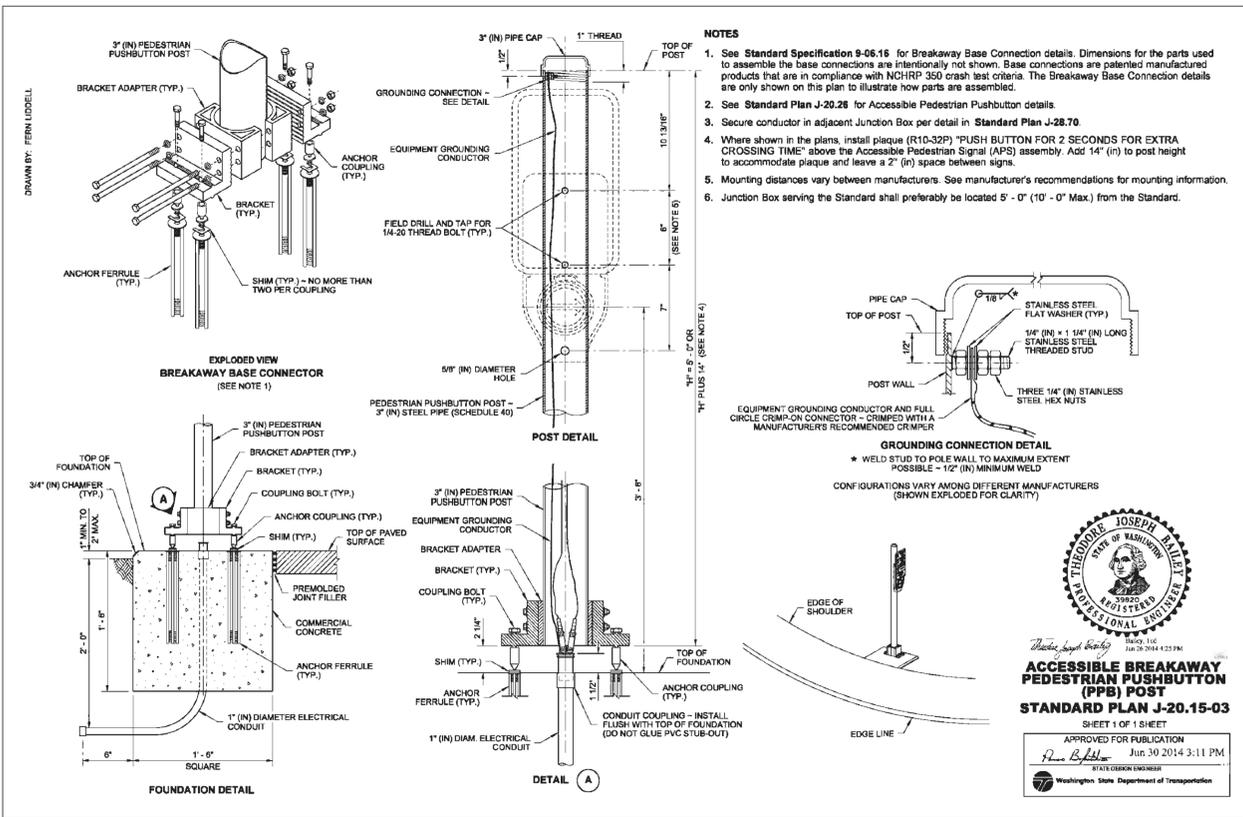
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108TH AVE NE SEWER AND WATER REPLACEMENT
WSDOT STANDARD PLANS

SHEET: 28 / 36
SCALE: NTS
FILENAME: 801802 - DESIGN

811
Know what's below.
Call before you dig.

CHS ENGINEERS



NOTE: REFERENCES TO WSDOT STANDARD PLANS TO CURB, CURB AND GUTTER, DEPRESSED CURB AND GUTTER OR PEDESTRIAN CURB SHALL BE REVISED TO KIRKLAND PRE-APPROVED PLANS AS AVAILABLE FOR SUCH WORK.



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DEPARTMENT OF PUBLIC WORKS
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108TH AVE NE SEWER AND WATER REPLACEMENT
WSDOT STANDARD PLANS

SHEET: 29 / 36
SCALE: NTS
FILENAME: 801802 - DESIGN

EROSION AND SEDIMENT CONTROL PLAN NOTES

STORMWATER POLLUTION PREVENTION AND SPILL (SWPPS) SITE PLAN REQUIREMENTS

1. THE APPROVED CONSTRUCTION SEQUENCE SHALL BE AS FOLLOWS:
 - a. CONDUCT PRE-CONSTRUCTION MEETING.
 - b. ~~FLAG OR FENCE CLEARING LIMITS.~~
 - c. POST SIGN WITH NAME AND PHONE NUMBER OF CSWPPP SUPERVISOR.
 - d. INSTALL CATCH BASIN PROTECTION IF REQUIRED.
 - e. ~~GRADE AND INSTALL CONSTRUCTION ENTRANCE(S).~~
 - f. ~~INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).~~
 - g. ~~CONSTRUCT SEDIMENT PONDS AND TRAPS.~~
 - h. ~~GRADE AND STABILIZE CONSTRUCTION ROADS.~~
 - i. ~~CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT.~~
 - j. MAINTAIN EROSION CONTROL MEASURE IN ACCORDANCE WITH CITY OF KIRKLAND STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
 - k. RELOCATE EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH THE CITY TESC MINIMUM REQUIREMENTS.
 - l. ~~COVER ALL AREAS WITHIN THE SPECIFIED TIME FRAME WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING, CRUSHED ROCK OR EQUIVALENT.~~
 - m. ~~STABILIZE ALL AREAS THAT REACH FINAL GRADE WITHIN 7 DAYS.~~
 - n. ~~SEED OR SOG ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.~~
 - o. UPON COMPLETION OF THE PROJECT, ALL DISTURBED AREAS MUST BE STABILIZED AND BEST MANAGEMENT PRACTICES REMOVED IF APPROPRIATE.
2. CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS CLEAN AND FREE OF CONTAMINATION AT ALL TIMES AND FOR PREVENTING AN ILLICIT DISCHARGE (KMC 15.52) INTO THE MUNICIPAL STORM DRAIN SYSTEM. IF YOUR CONSTRUCTION PROJECT CAUSES AN ILLICIT DISCHARGE TO THE MUNICIPAL STORM DRAIN SYSTEM, IN THE EVENT OF AN ILLICIT DISCHARGE TO THE MUNICIPAL STORM SYSTEM CAUSED BY THIS PROJECT, THE CITY OF KIRKLAND STORM MAINTENANCE DIVISION WILL BE CALLED TO CLEAN THE PUBLIC STORM SYSTEM, AND OTHER AFFECTED PUBLIC INFRASTRUCTURE. THE CONTRACTOR(S), PROPERTY OWNER, AND ANY OTHER RESPONSIBLE PARTY MAY BE CHARGED ALL COSTS ASSOCIATED WITH THE CLEAN-UP AND MAY ALSO BE ASSESSED MONETARY PENALTIES (KMC 1.12.200). THE MINIMUM PENALTY IS \$500. A FINE FOR A REPEAT VIOLATION SHALL BE MULTIPLIED BY THE NUMBER OF VIOLATIONS. A FINE MAY BE REDUCED OR WAIVED FOR PERSONS WHO IMMEDIATELY SELF-REPORT VIOLATIONS TO THE CITY AT 425-587-3900. A FINAL INSPECTION OF YOUR PROJECT WILL NOT BE GRANTED UNTIL ALL COSTS ASSOCIATED WITH THE CLEAN-UP AND PENALTIES, ARE PAID TO THE CITY OF KIRKLAND.
3. CONSTRUCTION DEWATERING DISCHARGE SHALL ALWAYS MEET WATER QUALITY GUIDELINES LISTED IN COK POLICY E-1. SPECIFICALLY, DISCHARGES TO THE PUBLIC STORMWATER DRAINAGE SYSTEM MUST BE BELOW 25 NTU, AND NOT CONSIDERED AN ILLICIT DISCHARGE (PER KMC 15.52.090). TEMPORARY DISCHARGES TO SANITARY SEWER REQUIRE PRIOR AUTHORIZATION AND PERMIT FROM KING COUNTY INDUSTRIAL WASTE PROGRAM (206-263-3000) AND NOTIFICATION TO THE PUBLIC WORKS CONSTRUCTION INSPECTOR. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF KIRKLAND STANDARDS AND SPECIFICATIONS.
4. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE SET BY SURVEY AND CLEARLY FLAGGED IN THE FIELD BY A CLEARING CONTROL FENCE PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE OR REMOVAL OF ANY GROUND COVER BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE PERMITTEE/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
6. APPROVAL OF THIS EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
7. THE IMPLEMENTATION OF THIS ESC PLAN AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE PERMITTEE/CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
8. A COPY OF THE APPROVED ESC PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
9. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS. WHEREVER POSSIBLE, MAINTAIN NATURAL VEGETATION FOR SILT CONTROL. THE ESC FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS ON THE APPROVED PLANS. LOCATIONS MAY BE MOVED TO SUIT FIELD CONDITIONS, SUBJECT TO APPROVAL BY THE ENGINEER AND THE CITY OF KIRKLAND INSPECTOR.
10. THE ESC FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS ON THE APPROVED PLANS. LOCATIONS MAY BE MOVED TO SUIT FIELD CONDITIONS, SUBJECT TO APPROVAL BY THE ENGINEER AND CITY OF KIRKLAND INSPECTOR.
11. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED (E.G., ADDITIONAL SUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.) AS NEEDED FOR UNEXPECTED STORM EVENTS. ADDITIONALLY, MORE ESC FACILITIES MAY BE REQUIRED TO ENSURE COMPLETE SILTATION CONTROL. THEREFORE, DURING THE COURSE OF CONSTRUCTION IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES OVER AND ABOVE THE MINIMUM REQUIREMENTS AS MAY BE NEEDED.
12. THE ESC FACILITIES SHALL BE INSPECTED BY THE PERMITTEE/CONTRACTOR DAILY DURING NON-RAINFALL PERIODS, EVERY HOUR (DAYLIGHT) DURING A RAINFALL EVENT, AND AT THE END OF EVERY RAINFALL, AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. IN ADDITION, TEMPORARY SILTATION PONDS AND ALL TEMPORARY SILTATION CONTROLS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED, PERMANENT DRAINAGE FACILITIES ARE OPERATIONAL, AND THE POTENTIAL FOR EROSION HAS PASSED. WRITTEN RECORDS SHALL BE KEPT DOCUMENTING THE REVIEWS OF THE ESC FACILITIES.
13. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN 48 HOURS FOLLOWING A STORM EVENT.

14. ~~A MONTH OR WITHIN 48 HOURS FOLLOWING A STORM EVENT. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.~~
15. ALL DENUDED SOILS MUST BE STABILIZED WITH AN APPROVED TESC METHOD (E.G. SEEDING, MULCHING, PLASTIC COVERING, CRUSHED ROCK) WITHIN THE FOLLOWING TIMELINES:
 - MAY 1 TO SEPTEMBER 30 - SOILS MUST BE STABILIZED WITHIN 7 DAYS OF GRADING.
 - OCTOBER 1 TO APRIL 30 - SOILS MUST BE STABILIZED WITHIN 2 DAYS OF GRADING.
 - STABILIZE SOILS AT THE END OF THE WORKDAY PRIOR TO A WEEKEND, HOLIDAY, OR PREDICTED RAIN EVENT.
16. ~~WHERE SEEDING FOR TEMPORARY EROSION CONTROL IS REQUIRED, FAST GERMINATING GRASSES SHALL BE APPLIED AT AN APPROPRIATE RATE (EXAMPLE: ANNUAL OR PERENNIAL RYE APPLIED AT APPROXIMATELY 80 POUNDS PER ACRE).~~
17. ~~WHERE STRAW MULCH IS REQUIRED FOR TEMPORARY EROSION CONTROL, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 2".~~
18. ~~ALL LOTS ADJOINING OR HAVING ANY NATIVE GROWTH PROTECTION EASEMENTS (NOPE) SHALL HAVE A 6' HIGH TEMPORARY CONSTRUCTION FENCE (CHAIN LINK WITH PIER BLOCKS) SEPARATING THE LOT (OR BUILDABLE PORTIONS OF THE LOT) FROM THE AREA RESTRICTED BY THE NOPE AND SHALL BE INSTALLED PRIOR TO ANY GRADING OR CLEARING AND REMAIN IN PLACE UNTIL THE PLANNING DEPARTMENT AUTHORIZES REMOVAL.~~
19. ~~CLEARING LIMITS SHALL BE DELINEATED WITH A CLEARING CONTROL FENCE. THE CLEARING CONTROL FENCE SHALL CONSIST OF A 6 FT. HIGH CHAIN LINK FENCE ADJACENT THE DRIP LINE OF TREES TO BE SAVED, WETLAND OR STREAM BUFFERS, AND SENSITIVE SLOPES. CLEARING CONTROL FENCES ALONG WETLAND OR STREAM BUFFERS OR UPSLOPE OF SENSITIVE SLOPES SHALL BE ACCOMPANIED BY AN EROSION CONTROL FENCE. IF APPROVED BY THE CITY, A FOUR FOOT HIGH ORANGE MESH CLEARING CONTROL FENCE MAY BE USED TO DELINEATE CLEARING LIMITS IN ALL OTHER AREAS.~~
20. OFF-SITE STREETS MUST BE KEPT CLEAN AT ALL TIMES. IF DIRT IS DEPOSITED ON THE PUBLIC STREET SYSTEM, THE STREET SHALL BE IMMEDIATELY CLEANED WITH POWER SWEEPER OR OTHER EQUIPMENT. ALL VEHICLES SHALL LEAVE THE SITE BY WAY OF THE CONSTRUCTION ENTRANCE AND SHALL BE CLEANED OF ALL DIRT THAT WOULD BE DEPOSITED ON THE PUBLIC STREETS.
21. ROCK FOR EROSION PROTECTION OF ROADWAY DITCHES, WHERE REQUIRED, MUST BE OF SOUND QUARRY ROCK, PLACED TO A DEPTH OF 1' AND MUST MEET THE FOLLOWING SPECIFICATIONS: 4" - 8" ROCK/40% - 70% PASSING, 2" - 4" ROCK/30% - 40% PASSING, AND 1" - 2" ROCK/10% - 20% PASSING. RECYCLED CONCRETE SHALL NOT BE USED FOR CONSTRUCTION ENTRANCE OR TEMPORARY STABILIZATION ELSEWHERE ON THE SITE.
22. IF ANY PART(S) OF THE CLEARING LIMIT BOUNDARY OR TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN IS/ARE DAMAGED, IT SHALL BE REPAIRED IMMEDIATELY.
23. ALL PROPERTIES ADJACENT TO THE PROJECT SITE SHALL BE PROTECTED FROM SEDIMENT DEPOSITION AND RUNOFF.
24. AT NO TIME SHALL MORE THAN 1' OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED IMMEDIATELY FOLLOWING REMOVAL OF EROSION CONTROL BMPs. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
25. ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE PERMANENT FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION OR DISPERSION SYSTEM, THE FACILITY SHALL NOT BE USED AS A TEMPORARY SETTLING BASIN. NO UNDERGROUND DETENTION TANK, DETENTION VAULT, OR SYSTEM WHICH BACKS UNDER OR INTO A POND SHALL BE USED AS A TEMPORARY SETTLING BASIN.
26. ALL EROSION/SEDIMENTATION CONTROL PONDS WITH A DEAD STORAGE DEPTH EXCEEDING 6" MUST HAVE A PERIMETER FENCE WITH A MINIMUM HEIGHT OF 3'.
27. THE WASHED GRAVEL BACKFILL ADJACENT TO THE FILTER FABRIC FENCE SHALL BE REPLACED AND THE FILTER FABRIC CLEANED IF IT IS NONFUNCTIONAL BY EXCESSIVE SILT ACCUMULATION AS DETERMINED BY THE CITY OF KIRKLAND. ALSO, ALL INTERCEPTOR SWALES SHALL BE CLEANED IF SILT ACCUMULATION EXCEEDS ONE QUARTER DEPTH.
28. PRIOR TO THE OCTOBER 1 OF EACH YEAR (THE BEGINNING OF THE WET SEASON), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. THE IDENTIFIED DISTURBED AREA SHALL BE SEEDED WITHIN ONE WEEK AFTER OCTOBER 1. A SITE PLAN DEPICTING THE AREAS TO BE SEEDED AND THE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE PUBLIC WORKS CONSTRUCTION INSPECTOR. THE INSPECTOR CAN REQUIRE SEEDING OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATERS, ADJACENT PROPERTIES, OR DRAINAGE FACILITIES.
29. ANY AREA TO BE USED FOR INFILTRATION OR PERVIOUS PAVEMENT (INCLUDING A 5 FOOT BUFFER) MUST BE SURROUNDED BY SILT FENCE PRIOR TO CONSTRUCTION AND UNTIL FINAL STABILIZATION OF THE SITE TO PREVENT SOIL COMPACTION AND SILTATION BY CONSTRUCTION ACTIVITIES.
30. IF THE TEMPORARY CONSTRUCTION ENTRANCE OR ANY OTHER AREA WITH HEAVY VEHICLE LOADING IS LOCATED IN THE SAME AREA TO BE USED FOR INFILTRATION OR PERVIOUS PAVEMENT, 6" OF SEDIMENT BELOW THE GRAVEL SHALL BE REMOVED PRIOR TO INSTALLATION OF THE INFILTRATION FACILITY OR PERVIOUS PAVEMENT (TO REMOVE FINES ACCUMULATED DURING CONSTRUCTION).
31. ANY CATCH BASINS COLLECTING RUNOFF FROM THE SITE, WHETHER THEY ARE ON OR OFF THE SITE, SHALL HAVE ADEQUATE PROTECTION FROM SEDIMENT. CATCH BASINS DIRECTLY DOWNSTREAM OF THE CONSTRUCTION ENTRANCE OR ANY OTHER CATCH BASIN AS DETERMINED BY THE CITY INSPECTOR SHALL BE PROTECTED WITH A "STORM DRAIN PROTECTION INSERT" OR EQUIVALENT.
32. IF A SEDIMENT POND IS NOT PROPOSED, A BAKER TANK OR OTHER TEMPORARY GROUND AND/OR SURFACE WATER STORAGE TANK MAY BE REQUIRED DURING CONSTRUCTION, DEPENDING ON WEATHER CONDITIONS.
33. DO NOT FLUSH CONCRETE BY-PRODUCTS OR TRUCKS NEAR OR INTO THE STORM DRAINAGE SYSTEM. IF EXPOSED AGGREGATE IS FLUSHED INTO THE STORM SYSTEM, IT COULD MEAN RE-CLEANING THE ENTIRE DOWNSTREAM STORM SYSTEM, OR POSSIBLY RE-LAYING THE STORM LINE.
34. CONSTRUCTION DEWATERING DISCHARGES SHALL ALWAYS MEET WATER QUALITY GUIDELINES LISTED IN COK POLICY E-1. SPECIFICALLY, DISCHARGES TO THE PUBLIC STORMWATER DRAINAGE SYSTEM MUST BE BELOW 25NTU, AND NOT CONSIDERED A PROHIBITED DISCHARGE (PER KMC 15.52.090). TEMPORARY DISCHARGES TO SANITARY SEWER REQUIRE PRIOR AUTHORIZATION AND PERMIT FROM KING COUNTY INDUSTRIAL WASTE PROGRAM (206-263-3000) AND NOTIFICATION TO THE PUBLIC WORKS CONSTRUCTION INSPECTOR.
35. RECYCLED CONCRETE SHALL NOT BE STOCKPILED ON SITE, UNLESS FULLY COVERED WITH NO POTENTIAL FOR RELEASE OF RUNOFF.
36. SEE SHEET 14 FOR PLAN NO.S CK-E.05 AND CK-E.11.

THE SWPPS SITE PLAN IS TO BE CREATED BY THE CONTRACTOR. IT SHALL INCLUDE THE LOCATION AND DESCRIPTION OF BMPs REQUIRED TO PREVENT POLLUTION AND CONTROL SPILLS FROM CONSTRUCTION ACTIVITIES INCLUDING FINAL CLEANUP, AND FROM CHEMICALS AND OTHER MATERIALS USED AND STORED ON THE CONSTRUCTION SITE. THE SITE PLAN DRAWING ELEMENT OF THE SWPPS PLAN SHALL INCLUDE ALL OF THE INFORMATION REQUIRED FOR THE BASE MAP, INFORMATION REQUIRED BY WSDOT STANDARD SPECIFICATIONS SECTION 1-07.15(1), THE MINIMUM ELEMENTS IN THE SPECIAL PROVISIONS, AS WELL AS:

1. EXISTING AND PROPOSED ROADS, DRIVEWAYS, PARKING AREAS, BUILDINGS, DRAINAGE FACILITIES, UTILITY CORRIDORS NOT ASSOCIATED WITH ROADWAYS, RELEVANT CRITICAL AREAS AND ASSOCIATED BUFFERS, AND PROPOSED TOPOGRAPHY.
2. IDENTIFY LOCATIONS WHERE LIQUIDS WILL BE STORED AND DELINEATE SECONDARY CONTAINMENT AREAS THAT WILL BE PROVIDED.
3. IDENTIFY LOCATIONS WHERE CONSTRUCTION MATERIALS AND WASTES WILL BE GENERATED AND STOCKPILED (STOCKPILING OF MATERIAL IN RIGHT OF WAY IS SUBJECT TO ENGINEER APPROVAL PER GENERAL NOTE 24 SHEET 1).
4. IDENTIFY LOCATION OF FUELING FOR VEHICLES AND EQUIPMENT IF STATIONARY TANKS WILL BE USED.
5. DELINEATE CONTAINMENT AREAS FOR FUEL SPILLS.
6. SHOW LOCATIONS OF LIGHTING AND SIGNAGE FOR FUELING DURING EVENING HOURS.
7. DELINEATE MAINTENANCE AND REPAIR AREAS AND CLEARLY NOTE THAT DRIP PANS OR PLASTIC SHALL BE USED BENEATH VEHICLES. ALSO CLEARLY NOTE THAT SIGNS MUST BE POSTED THAT STATE NO VEHICLE WASHING MAY OCCUR IN THE AREA.
8. DELINEATE TRUCK WASHOUT AREAS AND IDENTIFY THE LOCATION OF SLURRY/WASHWATER SUMPS AND RINSING AREA FOR TOOLS.
9. DELINEATE WHERE CHEMICALS WILL BE APPLIED AND IDENTIFY WHERE THEY WILL BE STORED.
10. IDENTIFY WHERE THE SPILL RESPONSE MATERIALS WILL BE STORED.



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CITY OF KIRKLAND

DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

NO.	DATE	BY	APPR.	REVISION



APPROVED BY:

DATE:

DF / CC / BG DESIGNED BY:	10 / 18 DATE
DJ DRAWN BY:	10 / 18 DATE
RL CHECKED BY:	10 / 19 DATE

108TH AVE NE SEWER AND WATER REPLACEMENT

STORM WATER POLLUTION
PREVENTION AND SPILL NOTES
PLAN NOTES

SHEET:

30 / 36

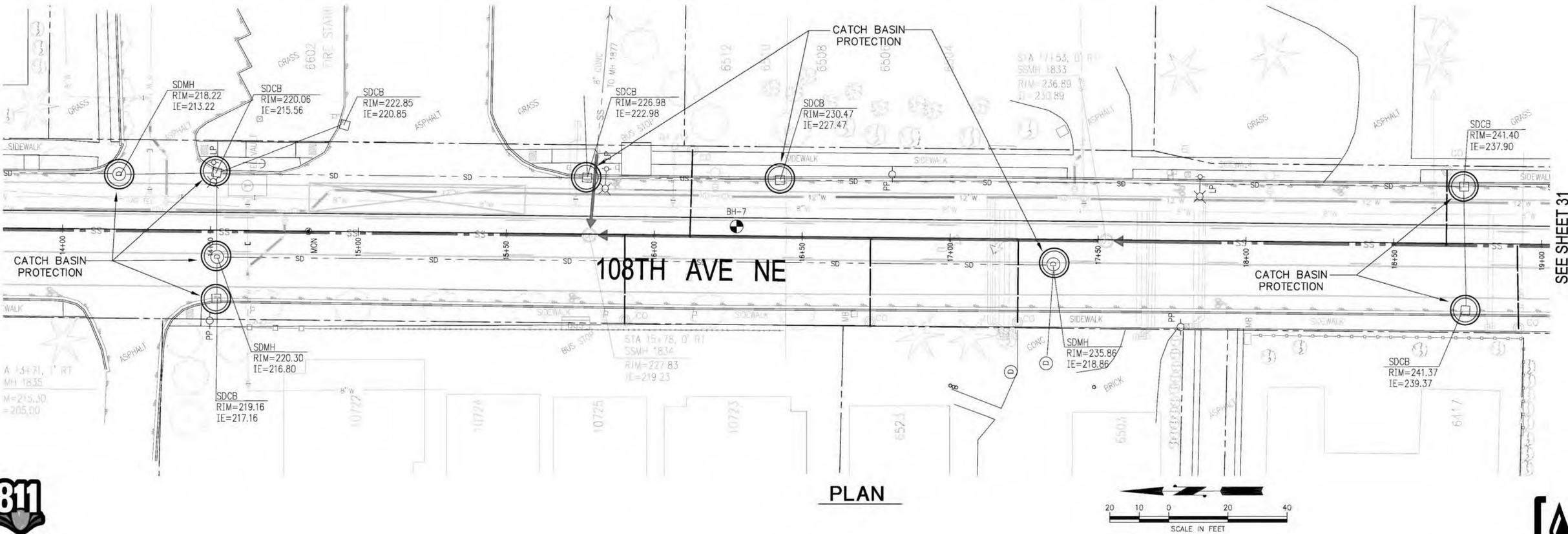
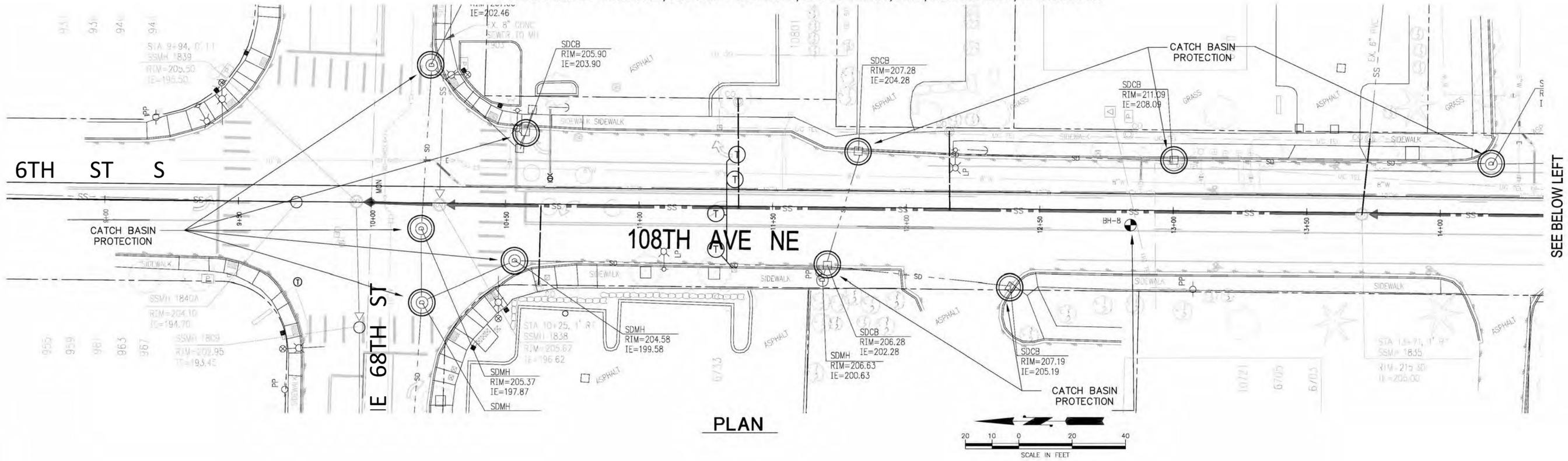
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NTS

FILENAME:

801802 - DESIGN

A PORTION OF SECTION 8, TOWNSHIP 25 NORTH, RANGE 5 EAST, W.M., KING COUNTY, WASHINGTON



SEE ABOVE RIGHT

SEE BELOW LEFT

SEE SHEET 31



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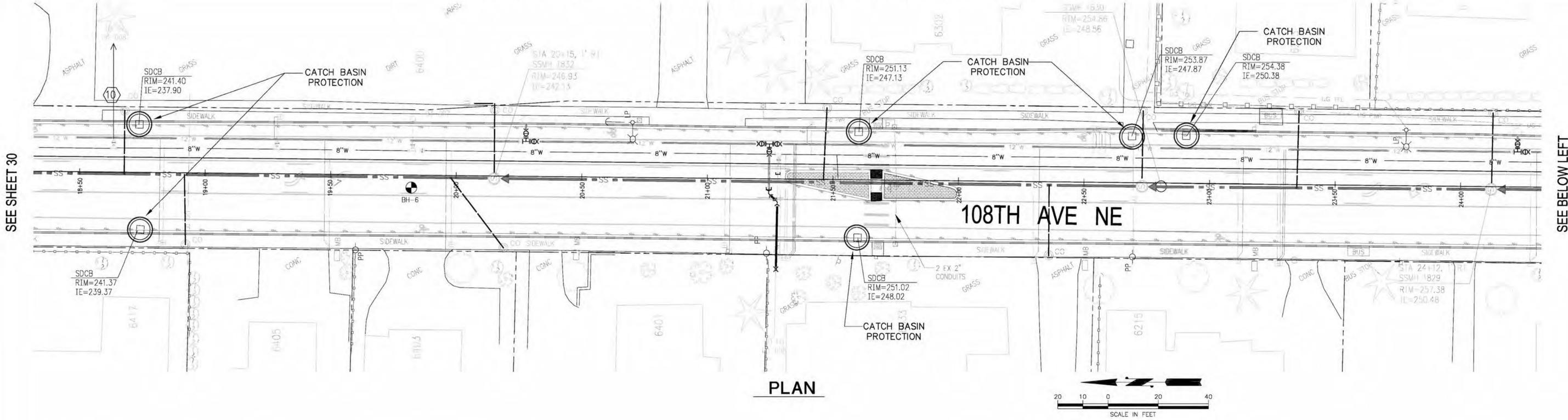
APPROVED BY: _____
DATE: _____

DF / CC / BG 10 / 18 DATE
DESIGNED BY: _____
DJ 10 / 18 DATE
DRAWN BY: _____
RL 10 / 19 DATE
CHECKED BY: _____

108TH AVE NE SEWER AND WATER REPLACEMENT
EROSION AND SEDIMENT CONTROL PLAN
STA 10+00 TO STA 19+00

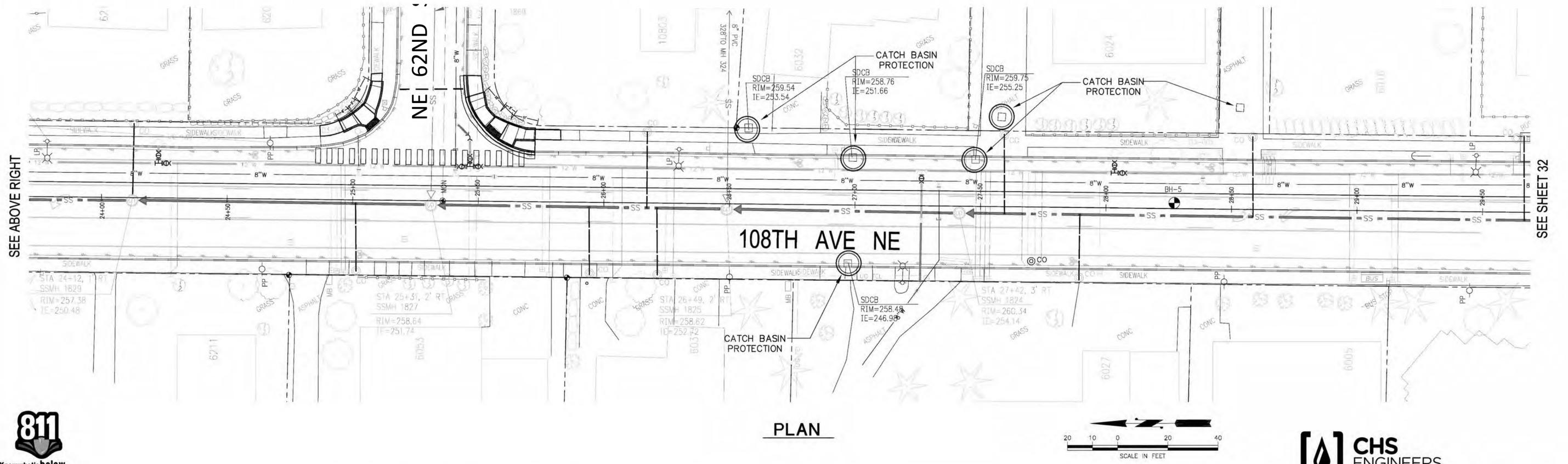
SHEET: 31 / 36
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FILENAME: 801802 - DESIGN





SEE SHEET 30

SEE BELOW LEFT



SEE ABOVE RIGHT

SEE SHEET 32



CITY OF KIRKLAND
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NO.	DATE	BY	APPR.	REVISION



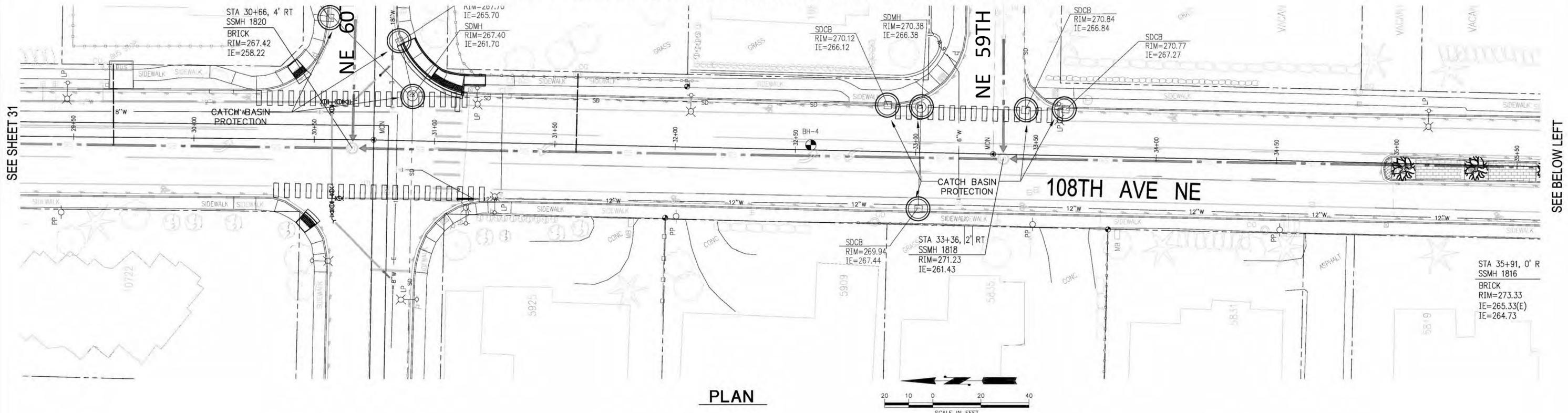
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 DESIGNED BY: _____
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 RL 10 / 19 DATE
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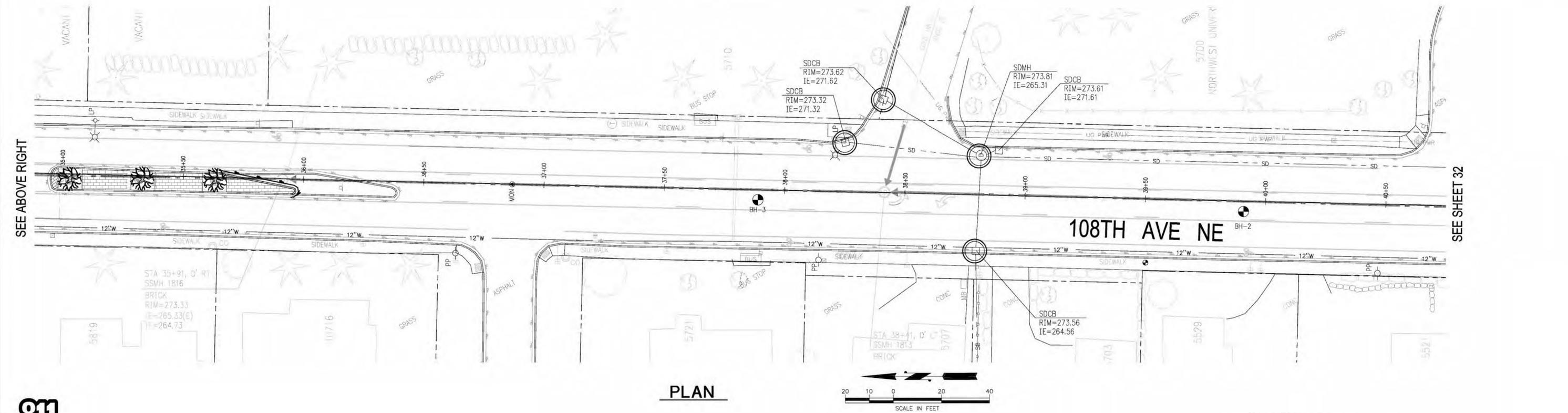
108TH AVE NE SEWER AND WATER REPLACEMENT
EROSION AND SEDIMENT CONTROL PLAN
 STA. 19+00 TO STA 29+50

SHEET: 32 / 36
 SCALE: SEE GRAPHIC SCALE
 FILENAME: 801802 - DESIGN

A PORTION OF SECTIONS 8 AND 17, TOWNSHIP 25 NORTH, RANGE 5 EAST, W.M., KING COUNTY, WASHINGTON



PLAN



PLAN



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APPROVED BY:

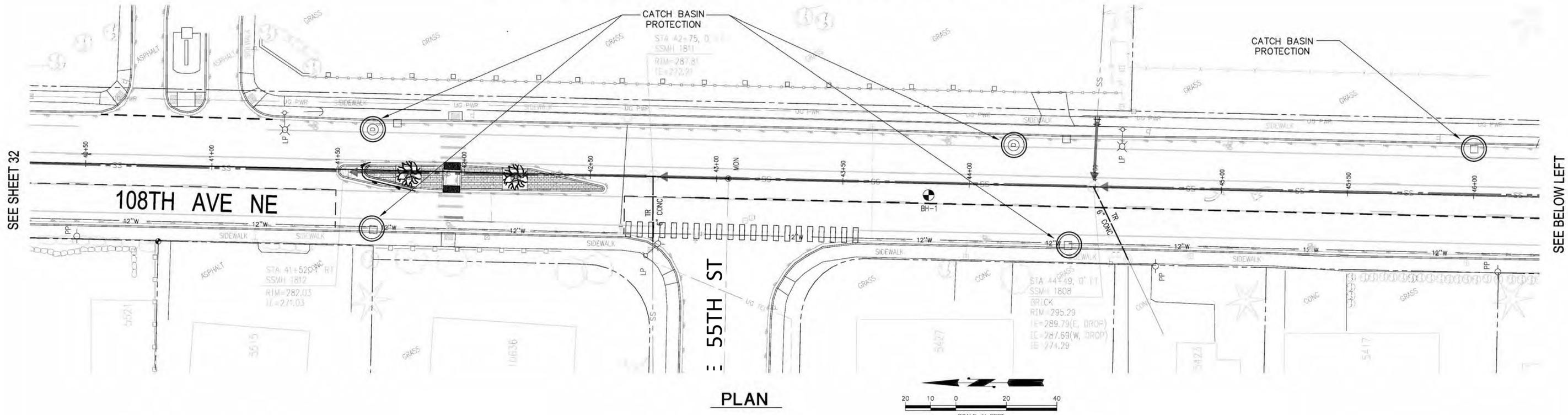
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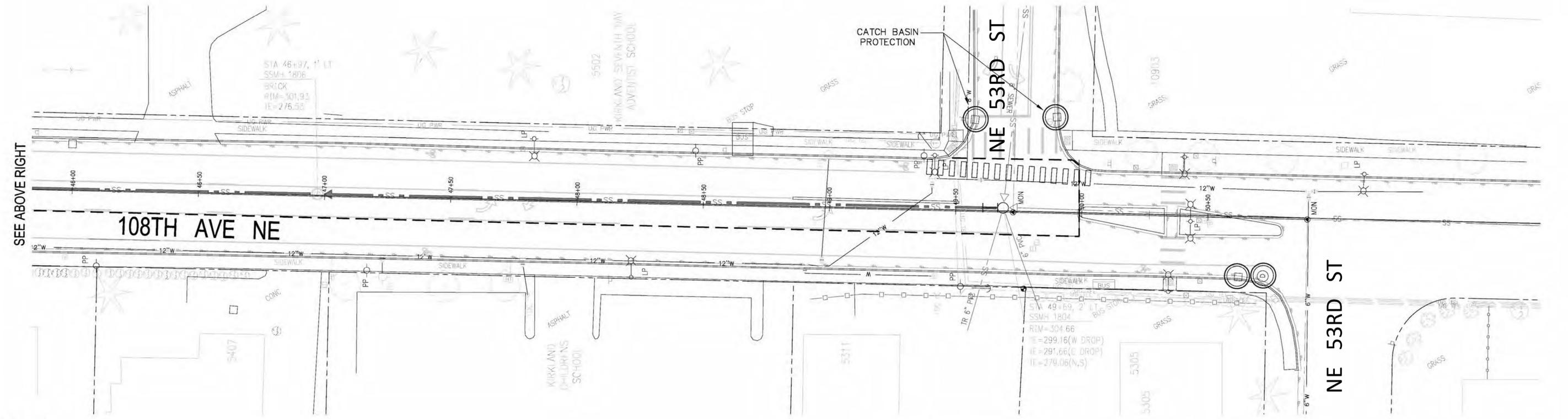
108TH AVE NE SEWER AND WATER REPLACEMENT
EROSION AND SEDIMENT CONTROL
STA 29+50 TO STA 40+50

SHEET: 33 / 36
SCALE: SEE GRAPHIC SCALE
FILENAME: 801802 - DESIGN

A PORTION OF SECTIONS 8 AND 17, TOWNSHIP 25 NORTH, RANGE 5 EAST, W.M., KING COUNTY, WASHINGTON



PLAN



PLAN



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NO.	DATE	BY	APPR.	REVISION



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 DATE: _____

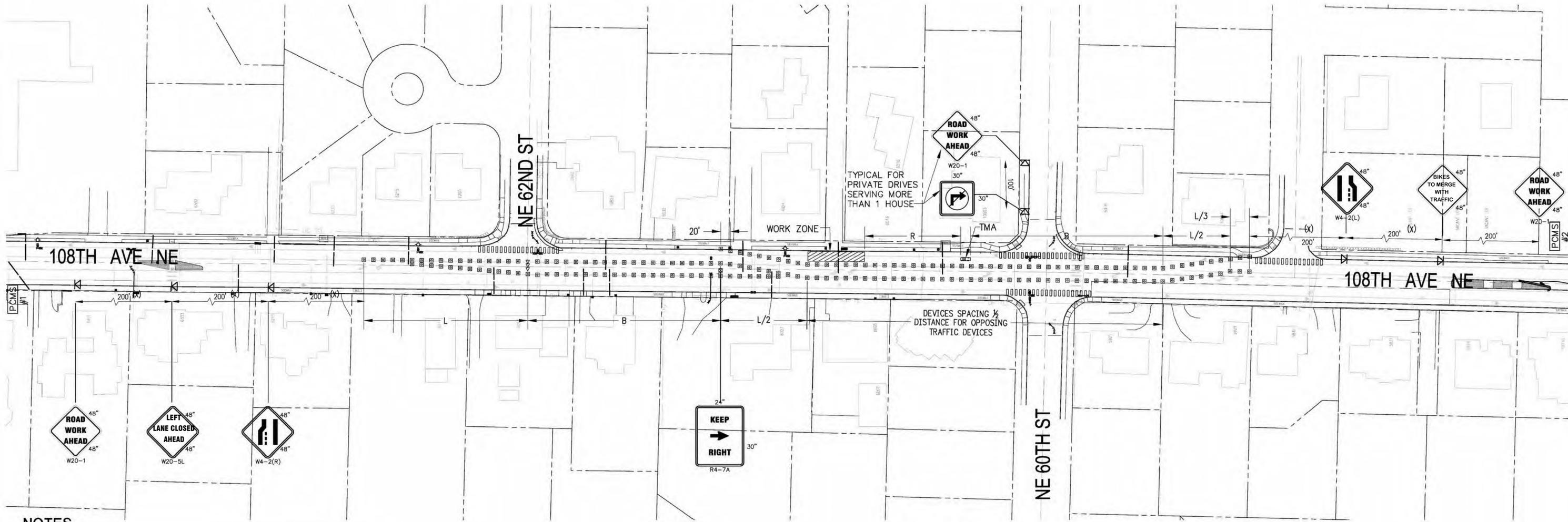
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 DJ: 10 / 18
 DRAWN BY: _____ DATE
 RL: 10 / 19
 CHECKED BY: _____ DATE

108TH AVE NE SEWER AND WATER REPLACEMENT
 EROSION AND SEDIMENT CONTROL PLAN
 STA 40+50 TO STA 50+00

SHEET: 34 / 36
 SCALE: SEE GRAPHIC SCALE
 FILENAME: 801802 - DESIGN

USER: Scott_Sullivan\pilot\108TH AVE SEWER & WATER REPLACEMENT.dwg
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A PORTION OF SECTION 8, TOWNSHIP 25 NORTH, RANGE 5 EAST, W.M., KING COUNTY, WASHINGTON



PLAN

NOTES:

- TRAVEL INTERRUPTIONS ARE PROHIBITED FROM 7:00 AM TO 9:00 AM AND 3:30 PM TO 6:00 PM. LANE SHIFT SHALL BE CONSIDERED A TRAFFIC INTERRUPTION.
- TRAFFIC CONTROL PLANS SHOWN ARE PRELIMINARY. TRAFFIC CONTROL PLANS SHALL BE SUBMITTED TO PW TRAFFIC GROUP FOR REVIEW AND APPROVAL AT LEAST TWO WEEKS IN ADVANCE OF CONSTRUCTION. A SPECIFIC TRAFFIC CONTROL PLAN FOR WORK TO BE PERFORMED AT/WITHIN THE INTERSECTION OF NE 68TH ST AND 108TH AVE NE IS REQUIRED, IN ADDITION TO PLANS FOR ALL OTHER WORK AREAS.
- TRAFFIC CONTROL PLAN FOR WORK ZONE IMPACTS FROM NE 68TH ST TO SOUTH SIDE OF EX. FIRE STATION SHALL INCLUDE UNIFORMED POLICE OFFICERS FOR INTERSECTION AND ACCESS CONTROL.

TRAFFIC CONTROL PLAN GENERAL NOTES

- SPEED LIMIT 25 MPH.
- FOLLOW TCP'S FOR TRAFFIC CONTROL AT INTERSECTIONS AND MID-BLOCK.
- NO PARKING EITHER SIDE OF THE STREET DURING CONSTRUCTION. POST NOTICES 7 DAYS IN ADVANCE.
- PROVIDE ACCESS TO DRIVEWAYS AT ALL TIMES. MAINTAIN PEDESTRIAN ACCESS ON ONE SIDE OF STREET. DRIVEWAY SHALL BE SIGNED FOR RIGHT TURN ONLY.
- PROTECTIVE VEHICLE RECOMMENDED - MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.
- WHEN USED, THE DOWNSTREAM TAPER DEVICE SPACING SHOULD BE 20' O.C.
- LONGITUDINAL BUFFER SPACE IS USED TO POSITION THE TAPER IN ADVANCE OF A CURVE.
- COORDINATE WITH CITY OF KIRKLAND RIGHT OF WAY DIVISION IF SIDEWALKS WILL BE CLOSED DURING CONSTRUCTION.
- PROVIDE SCHEDULE FOR LANE CLOSURE FOR APPROVAL PRIOR TO CLOSING LANE.
- ANY DEVIATIONS FROM APPROVED TRAFFIC CONTROL PLAN SHALL REQUIRE APPROVAL FROM THE CITY OF KIRKLAND PRIOR TO IMPLEMENTATION.
- ADJUST SIGN SPACING AS NECESSARY TO ALLOW FOR VISIBILITY FROM SIDE STREETS AND DRIVEWAYS.
- TRAFFIC CONTROL TO BE PROVIDED PER WSDOT WORK ZONE TRAFFIC CONTROL GUIDELINES MANUAL M55-44.04 UNLESS OTHERWISE NOTED.
- WORK REQUIRES SERVICES OF WSDOT CERTIFIED TRAFFIC CONTROL SUPERVISOR.
- COORDINATE WITH KING COUNTY METRO TRANSIT DIVISION CONSTRUCTION INFORMATION COORDINATOR A MINIMUM OF FIVE (5) BUSINESS DAYS FOR WORKING ALONG BUS ROUTES. PROVIDE FOR TEMPORARY BUS STOP RELOCATIONS AS NECESSARY TO MAINTAIN BUS SERVICE. POINT OF CONTACT IS EITHER RICHARD GARCIA (206-684-2732) OR ERIC BRUMBACK (206-684-2785).
- COORDINATE WITH LAKE WASHINGTON SCHOOL DISTRICT IF SCHOOL BUS ROUTES WILL REQUIRE A DETOUR DURING CONSTRUCTION.

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (FT)	155	200	250	305	360	425	495	570	-	-
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R										
HOST VEHICLE WEIGHT 9,900 - 22,000 LBS					HOST VEHICLE WEIGHT > 22,000 LBS					
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH					
100'	123'	172'	74'	100'	150'					
PROTECTIVE VEHICLE (WORK VEHICLE) = R										
NO SPECIFIED DISTANCE REQUIRED										

MINIMUM TAPER LENGTH = L (FEET)										
LANE WIDTH (FEET)	POSED SPEED (MPH)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	-

SIGN SPACING TABLE = X (FT) (1)		
	SPEED	X
RURAL HIGHWAYS	60/65 MPH	800'±
RURAL ROADS	45/50 MPH	500'±
RURAL ROADS/URBAN ARTERIALS	35/40 MPH	350'±
RURAL ROADS/URBAN ARTERIALS RESIDENTIAL & BUSINESS DISTRICTS	25/30 MPH	200'± (2)
URBAN STREETS	25 MPH OR LESS	100'± (2)

- (1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS, AND DRIVEWAYS.
- (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

PCMS #1	
1	2
LEFT LANE CLOSURE 2.0 SEC	1 MILE AHEAD 2.0 SEC

PCMS #2	
1	2
LANE SHIFTS LEFT 2.0 SEC	1 MILE AHEAD 2.0 SEC

CHANNELIZING DEVICE SPACING (FT)		
MPH	TAPER	TANGENT
50/60	40	80
35/45	30	60
25/30	20	40

LEGEND

- FLAGGING STATION
- SIGN LOCATION
- CHANNELIZING DEVICES
- WORK ZONE
- SEQUENTIAL ARROW SIGN
- TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)
- PORTABLE CHANGEABLE MESSAGE SIGN

CHS ENGINEERS
811 Know what's below. Call before you dig.

CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

NO.	DATE	BY	APPR.	REVISION



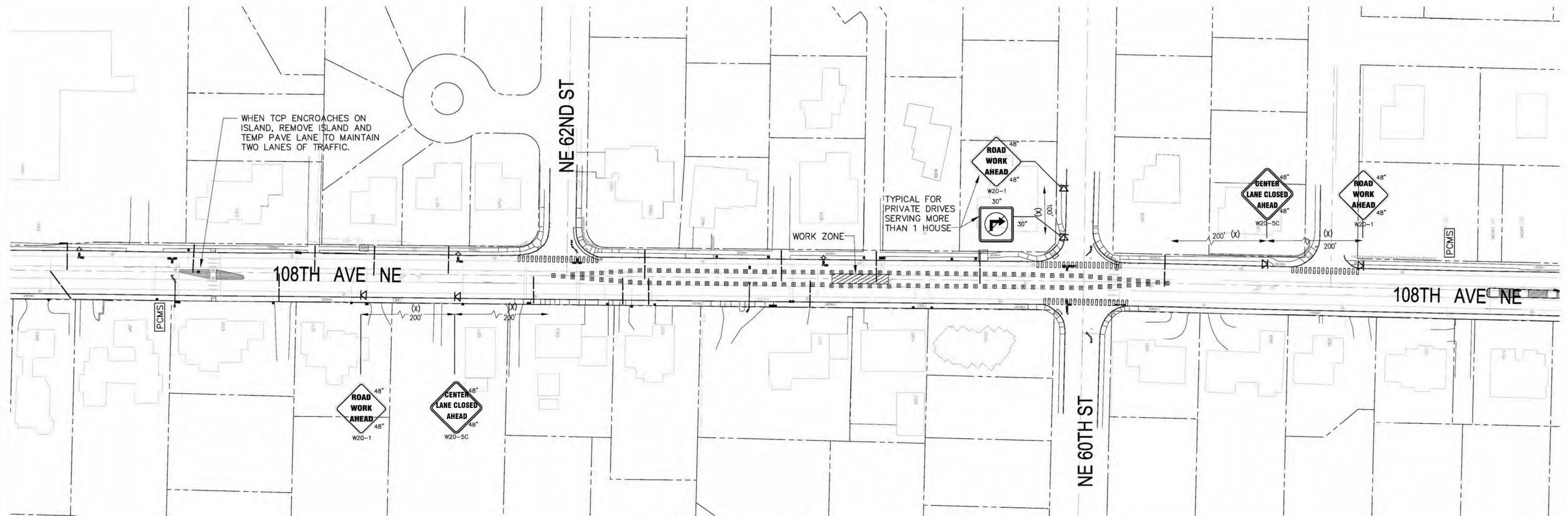
APPROVED BY: _____
DATE: _____

DF / CC / BG 10/18
DESIGNED BY: _____ DATE
DJ 10/18
DRAWN BY: _____ DATE
RL 10/19
CHECKED BY: _____ DATE

108TH AVE NE SEWER AND WATER REPLACEMENT
TRAFFIC CONTROL PLAN 2
MID-BLOCK - WATER TYPICAL

SHEET: 35 / 36
SCALE: SEE GRAPHIC SCALE
FILENAME: 801802 - DESIGN

A PORTION OF SECTION 8, TOWNSHIP 25 NORTH, RANGE 5 EAST, W.M., KING COUNTY, WASHINGTON



NOTES:

- TRAVEL INTERRUPTIONS ARE PROHIBITED FROM 7:00 AM TO 9:00 AM AND 3:30 PM TO 6:00 PM. LANE SHIFT SHALL BE CONSIDERED A TRAFFIC INTERRUPTION.
- TRAFFIC CONTROL PLANS SHOWN ARE PRELIMINARY. TRAFFIC CONTROL PLANS SHALL BE SUBMITTED TO PW TRAFFIC GROUP FOR REVIEW AND APPROVAL AT LEAST TWO WEEKS IN ADVANCE OF CONSTRUCTION. A SPECIFIC TRAFFIC CONTROL PLAN FOR WORK TO BE PERFORMED AT/WITHIN THE INTERSECTION OF NE 68TH ST AND 108TH AVE NE IS REQUIRED. IN ADDITION TO PLANS FOR ALL OTHER WORK AREAS.
- TRAFFIC CONTROL PLAN FOR WORK ZONE IMPACTS FROM NE 68TH ST TO SOUTH SIDE OF EX. FIRE STATION SHALL INCLUDE UNIFORMED POLICE OFFICERS FOR INTERSECTION AND ACCESS CONTROL.

TRAFFIC CONTROL PLAN GENERAL NOTES

- SPEED LIMIT 25 MPH.
- FOLLOW TCP'S FOR TRAFFIC CONTROL AT INTERSECTIONS AND MID-BLOCK.
- NO PARKING EITHER SIDE OF THE STREET DURING CONSTRUCTION. POST NOTICES 7 DAYS IN ADVANCE.
- PROVIDE ACCESS TO DRIVEWAYS AT ALL TIMES. MAINTAIN PEDESTRIAN ACCESS ON ONE SIDE OF STREET. DRIVEWAY SHALL BE SIGNED FOR RIGHT TURN ONLY.
- PROTECTIVE VEHICLE RECOMMENDED - MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.
- WHEN USED, THE DOWNSTREAM TAPER DEVICE SPACING SHOULD BE 20' O.C.
- LONGITUDINAL BUFFER SPACE IS USED TO POSITION THE TAPER IN ADVANCE OF A CURVE.
- COORDINATE WITH CITY OF KIRKLAND RIGHT OF WAY DIVISION IF SIDEWALKS WILL BE CLOSED DURING CONSTRUCTION.
- PROVIDE SCHEDULE FOR LANE CLOSURE FOR APPROVAL PRIOR TO CLOSING LANE.
- ANY DEVIATIONS FROM APPROVED TRAFFIC CONTROL PLAN SHALL REQUIRE APPROVAL FROM THE CITY OF KIRKLAND PRIOR TO IMPLEMENTATION.
- ADJUST SIGN SPACING AS NECESSARY TO ALLOW FOR VISIBILITY FROM SIDE STREETS AND DRIVEWAYS.
- TRAFFIC CONTROL TO BE PROVIDED PER WSDOT WORK ZONE TRAFFIC CONTROL GUIDELINES MANUAL M55-44.04 UNLESS OTHERWISE NOTED.
- WORK REQUIRES SERVICES OF WSDOT CERTIFIED TRAFFIC CONTROL SUPERVISOR.
- COORDINATE WITH KING COUNTY METRO TRANSIT DIVISION CONSTRUCTION INFORMATION COORDINATOR A MINIMUM OF FIVE (5) BUSINESS DAYS FOR WORKING ALONG BUS ROUTES. PROVIDE FOR TEMPORARY BUS STOP RELOCATIONS AS NECESSARY TO MAINTAIN BUS SERVICE. POINT OF CONTACT IS EITHER RICHARD GARCIA (206-684-2732) OR ERIC BRUMBACK (206-684-2785).
- COORDINATE WITH LAKE WASHINGTON SCHOOL DISTRICT IF SCHOOL BUS ROUTES WILL REQUIRE A DETOUR DURING CONSTRUCTION.

PLAN



BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (FT)	155	200	250	305	360	425	495	570	645	730
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R										
HOST VEHICLE WEIGHT 9,900 - 22,000 LBS					HOST VEHICLE WEIGHT > 22,000 LBS					
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH
100'	123'	172'	74'	100'	150'					
PROTECTIVE VEHICLE (WORK VEHICLE) = R										
NO SPECIFIED DISTANCE REQUIRED										

MINIMUM TAPER LENGTH = L (FEET)										
LANE WIDTH (FEET)	POSED SPEED (MPH)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	-	-	-	-
11	115	165	225	295	495	550	-	-	-	-
12	125	180	245	320	540	600	-	-	-	-

SIGN SPACING TABLE = X (FT) (1)		
	SPEED	X
RURAL HIGHWAYS	60/65 MPH	800'±
RURAL ROADS	40/55 MPH	500'±
RURAL ROADS/URBAN ARTERIALS	35/40 MPH	350'±
RURAL ROADS/URBAN ARTERIALS RESIDENTIAL & BUSINESS DISTRICTS	25/30 MPH	200'± (2)
URBAN STREETS	25 MPH OR LESS	100'± (2)

ALL SIGNS ARE 48" x 48" BLACK ON ORANGE UNLESS OTHERWISE SPECIFIED

- (1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS, AND DRIVEWAYS.
- (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

PCMS #2	
1	2
CENTER LANE CLOSED	NO LEFT TURNING
2.0 SEC	2.0 SEC

FILED LOCATE IN ADVANCE OF TEMPORARY SIGNS

CHANNELIZING DEVICE SPACING (FT)		
MPH	TAPER	TANGENT
50	40	80
35/45	30	60
25/30	20	40

LEGEND

- FLAGGING STATION
- SIGN LOCATION
- CHANNELIZING DEVICES
- WORK ZONE
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108TH AVE NE SEWER AND WATER REPLACEMENT
 TRAFFIC CONTROL PLAN 3
 MID-BLOCK SEWER TYPICAL

SHEET: 36 / 36
 SCALE: SEE GRAPHIC SCALE
 FILENAME: 801802 - DESIGN