

# CITY OF PORTLAND PUBLIC WORKS DEPARTMENT

# CONTRACT DRAWINGS

## 2025-2028 NEIGHBORHOOD DRAINAGE AND SEWER SYSTEM REPAIR CONTRACT

BID NO.: 26032

BID PLANS  
JULY 2025

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YEAR APPROVED  
2024



10/2/2025

JUSTIN PELLERIN, P.E. DATE  
SENIOR WATER RESOURCES ENGINEER



10/2/2025

WILLIAM BOORNAZIAN, P.E. DATE  
WATER RESOURCES MANAGER



PROJECT LOCATION  
PORTLAND, ME



VAULT #: 01051\_003

GENERAL NOTES:

- EXISTING CONDITIONS BASED ON RECORD DRAWINGS AND LIMITED FIELD SURVEY COMPLETED BY PORTLAND PUBLIC WORKS SURVEY CREW IN 2024. ALL INFRASTRUCTURE MATERIALS, SIZES, AND LOCATIONS SHALL BE FIELD VERIFIED.
- VERTICAL DATUM IS REFERENCED TO CITY DATUM WITH ONE-FOOT CONTOUR INTERVALS. CITY DATUM IS +0.02 FEET OF NGVD 1929. HORIZONTAL DATUM IS REFERENCED TO STATE PLANE NAD 1983 (FEET), MAINE WEST ZONE.
- PROTECT EXISTING FEATURES/STRUCTURES NOT CALLED OUT FOR REPLACEMENT/ALTERATION.
- THE CITY OF PORTLAND SHALL HAVE THE RIGHT AND AUTHORITY TO DETERMINE THE ACCEPTABILITY OF WORK AND MATERIALS IN PROGRESS OR COMPLETED. THE CITY OF PORTLAND SHALL HAVE THE RIGHT TO REJECT ANY WORK OR MATERIALS WHICH DO NOT CONFORM, IN ITS SOLE OPINION, TO THE PLANS OR SPECIFICATIONS.
- PRIOR TO THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL SECURE A STREET OPENING PERMIT FROM THE PORTLAND DEPARTMENT OF PUBLIC WORKS. NO FEE WILL BE CHARGED FOR THIS PERMIT.
- ALL MATERIAL SCHEDULES SHOWN ON THE PLANS ARE FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL PREPARE HIS OWN MATERIAL SCHEDULES BASED UPON HIS PLAN REVIEW. ALL SCHEDULES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS OR PERFORMING WORK.
- ELECTRICAL AND TELECOMMUNICATIONS SERVICE PROVIDED VIA OVERHEAD LINES, UNLESS OTHERWISE SHOWN. CONTRACTOR SHALL USE CAUTION WHEN WORKING NEAR EXISTING OVERHEAD LINES.
- TEST PITS SHALL BE COMPLETED AT LEAST TWO WEEKS PRIOR TO THE START OF CONSTRUCTION OR ORDERING OF MATERIALS AT THE TEST PIT LOCATION. THE CONTRACTOR SHALL PROMPTLY PROVIDE TEST PIT INFORMATION TO THE ENGINEER FOR REVIEW, AND SHALL NOTIFY THE ENGINEER OF ANY POTENTIAL UTILITY CROSSING CONFLICTS.
- RESIDENTIAL SANITARY SEWER SERVICE INFORMATION (LOCATION, SIZE, PIPE MATERIALS, ETC.) OBTAINED FROM HISTORIC SEWER CARDS AND SEWER VIDEOS. RECORD INFORMATION NOT FOUND FOR ALL RESIDENCES WITHIN THE PROJECT ZONE.
- DISPOSITION OF SURPLUS MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SURPLUS MATERIAL SHALL NOT BE DISPOSED OF ON THE PROJECT SITE. DISPOSITION SHALL BE MADE ONLY AT WASTE AREAS WHICH ARE LICENSED TO ACCEPT SUCH MATERIALS, UNLESS THE MATERIALS CAN BE INCORPORATED IN FILLS IN OTHER PROJECTS OF THE CONTRACTOR.
- IF CONTRACTOR PROPOSES TO TEMPORARILY STOCKPILE ANY SURPLUS SOIL AND ROCK IN THE CITY OF PORTLAND, THE CONTRACTOR SHALL OBTAIN APPROVAL FOR EACH STOCKPILE LOCATION FROM THE CITY. IF CONTRACTOR PROPOSES TO PERMANENTLY STOCKPILE ANY SURPLUS SOIL AND ROCK ON PROPERTY IN THE CITY OF PORTLAND, THE CONTRACTOR MUST OBTAIN ANY SITE PLAN AND FILL PERMITS REQUIRED FROM CITY PLANNING AUTHORITY OR ANY FILL PERMITS REQUIRED FROM MAINE DEP OR US ARMY CORP OF ENGINEERS. BOTH TEMPORARY AND PERMANENT STOCKPILE LOCATIONS SHALL MEET THE APPLICABLE SETBACK REQUIREMENTS IN THE CITY LAND USE CODE.
- MAINTENANCE OF TRAFFIC SHALL BE PER THE MOST CURRENT EDITION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE MOST CURRENT MAINE DOT SPECIFICATIONS AND STANDARD PLANS.
- PROPERTY LINE AND R.O.W. MONUMENTS SHALL NOT BE DISTURBED BY CONSTRUCTION UNLESS CALLED OUT ON THE PLANS. DISTURBED MONUMENTS SHALL BE RESET BY A MAINE LICENSED LAND SURVEYOR.
- THE CONTRACTOR SHALL CALL THE APPROPRIATE UTILITY COMPANY AND DIG SAFE (888-344-7233) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR THE ELEVATION OF THE EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. UNDERGROUND FACILITIES INDICATED ON THE CROSS SECTIONS HAVE BEEN CARRIED OVER FROM THE PLAN VIEW DATA AND MAY ALSO INCLUDE FURTHER APPROXIMATIONS OF THE ELEVATIONS (DEPTHS) BASED UPON STRAIGHT LINE INTERPOLATION FROM THE NEAREST MANHOLES, GATE VALVES, OR TEST PITS. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE ENGINEER HAS COORDINATED THE PROPOSED WORK WITH THE AFFECTED UTILITY COMPANIES TO ARRANGE FOR REQUIRED RELOCATION OF THEIR KNOWN FACILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE HIS WORK AND SCHEDULE WITH THE UTILITY RELOCATION WORK AND THE PROPER UTILITY COMPANY. THE FOLLOWING UTILITIES MAY HAVE FACILITIES WITHIN THE PROJECT LIMITS: CENTRAL MAINE POWER COMPANY - UTILTY - PORTLAND FIRE DEPARTMENT - PORTLAND WATER DISTRICT - CITY OF PORTLAND - SPECTRUM - CONSOLIDATED COMMUNICATIONS - AT&T - ANY ADDITIONAL UTILITY WORK NOT SPECIFIED ON THE PLANS SHALL BE COMPLETED BY THE RESPECTIVE UTILITY COMPANY.
- CONTRACTOR SHALL COORDINATE DISRUPTION OF PRIVATE UTILITY SERVICES WITH LAND OWNER AT LEAST 2 DAYS (48 HOURS) PRIOR TO SCHEDULED DISRUPTION.
- EXCAVATIONS ACCOMPLISHED AS PART OF THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH OSHA REGULATIONS SUBPART P OF 29 CFR PART 1926.650-.652 (CONSTRUCTION STANDARD FOR EXCAVATIONS).

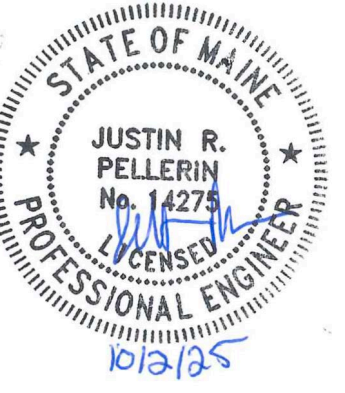
- LOCATIONS OF RIGHT-OF-WAY SHOWN ON PLANS ARE APPROXIMATE ONLY.
- THE CONTRACTOR SHALL COMPLETE THE WORK WITHIN THE RIGHT-OF-WAY, AND SHALL BE RESPONSIBLE IF TRESPASSING ON PRIVATE PROPERTY OCCURS.
- CONTRACTOR SHALL NOT PARK, IMPEDE ACCESS OR STORE EQUIPMENT/MATERIAL ON ADJACENT CITY OR PRIVATELY OWNED LAND WITHOUT WRITTEN CONSENT FROM THE CITY OR LAND OWNER.
- THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITIES, TO ORIGINAL FINISH SURFACE (LAWN, PAVEMENT, GRAVEL, ETC.) UNLESS NOTED OTHERWISE ON PLANS. RESTORATION OF PAVED SURFACES, GRAVEL SURFACES, DRIVEWAYS, WALKWAYS, LAWNS AND OTHER AREAS SHALL BE AT THE CONTRACTORS EXPENSE. ALL CURB DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED IN KIND, AT THE CONTRACTORS EXPENSE, AND SHALL CONFORM TO CITY OF PORTLAND STANDARDS.
- ALL SIGNING, SIGNAL AND STRIPING MATERIALS AND PLACEMENT SHALL CONFORM TO THE MAINE DOT STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND STANDARD DETAILS AND WITH THE MOST CURRENT FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- BUTT JOINTS SHALL BE USED AT ALL LOCATIONS WHERE THE PROPOSED PAVEMENT MEETS EXISTING PAVEMENT. NO FEATHERING OF PAVEMENT WILL BE PERMITTED. COST OF BUTT JOINTS SHALL BE INCIDENTAL TO PAY ITEMS IN SECTION 403 - HOT BITUMINOUS PAVEMENT AND SECTION 600 - SIDEWALKS AND DRIVEWAYS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY TRENCH PAVEMENT THAT HAS EXPERIENCED EXCESSIVE SETTLEMENT, CRACKING, OR OPENING OF JOINTS. REPAIRS MAY INCLUDE OVERLAY, REMOVAL OF UNACCEPTABLE MATERIALS, COMPLETE REPLACEMENT, JOINT SEALING, OR RECONSTRUCTING PAVEMENT JOINTS AS REQUIRED. THIS WORK MAY BE NECESSARY AFTER THE FINAL ACCEPTANCE OF WORK OR PRIOR TO THE ONE YEAR GUARANTEE. THIS WORK SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.
- ALL WORK COMPLETED UNDER THIS CONTRACT SHALL BE GOVERNED BY AND SHALL CONFORM WITH CITY OF PORTLAND TECHNICAL AND DESIGN STANDARDS AND GUIDELINES.
- THE CONTRACTOR SHALL ANTICIPATE THAT GROUNDWATER WILL BE ENCOUNTERED DURING CONSTRUCTION AND SHALL INCLUDE SUFFICIENT COSTS WITHIN THEIR BID TO PROVIDE DEWATERING AS NECESSARY. NO SEPARATE PAYMENT SHALL BE MADE TO THE CONTRACTOR FOR DEWATERING.
- EXISTING FACILITIES/STRUCTURES (I.E. TREES, POLES, LIGHT POLES) SHALL BE REMOVED AND PROTECTED DURING CONSTRUCTION. CITY RETAINS THE RIGHT TO KEEP ANY AND ALL REMOVED FACILITIES/STRUCTURES. CONTRACTOR SHALL DISPOSE OF UNWANTED/UNUSED FACILITIES/STRUCTURES OFF SITE IN CONFORMANCE WITH APPLICABLE FEDERAL, STATE, AND LOCATION REGULATIONS.
- ALL MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM WITH APPLICABLE FEDERAL, STATE, AND CITY OF PORTLAND CODES AND SPECIFICATIONS.
- | LOCATION           | BELOW PAVED AREAS | BELOW SEEDED AREAS |
|--------------------|-------------------|--------------------|
| MINIMUM COMPACTION | 95%               | 90%                |

\*ALL PERCENTAGES OF COMPACTION SHALL BE OF MAXIMUM DRY DENSITY AT THE OPTIMUM MOISTURE CONTENT AS DETERMINED AND CONTROLLED IN ACCORDANCE WITH ASTM D-1557.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANING AND/OR FLUSH SEDIMENT AND DEBRIS FROM ALL MANHOLES, CATCH BASINS AND ASSOCIATED PIPING AFTER THE WORK HAS BEEN COMPLETED. ACCUMULATED SEDIMENT SHALL BE REMOVED AND PROPERLY DISPOSED OF.
- STATIONING, PIPE LENGTHS, PIPE SLOPES AND PIPE INVERT CALCULATIONS ARE MEASURED ALONG THE PIPE CENTERLINE TO THE INSIDE WALL OF MANHOLE AND CATCH BASIN STRUCTURES.
- PROPOSED CATCH BASIN, SEWER MANHOLE (SMH), AND DRAIN MANHOLE (DMH) SYMBOLS REPRESENT LOCATION OF NEW STRUCTURES. REFER TO DETAILS AND SPECIFICATIONS FOR INFORMATION ON FRAMES AND GRATES, COVERS, SHAPE, STYLE AND DIMENSIONS.
- ALL WORK WITHIN CITY STREET RIGHTS-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH REQUIREMENTS OF THE CITY TRAFFIC ENGINEER. THE CONTRACTOR SHALL SUBMIT A PROPOSED TRAFFIC CONTROL PLAN TO THE TRAFFIC ENGINEER AT LEAST 7 DAYS BEFORE STARTING CONSTRUCTION IN ANY STREET. THE TRAFFIC CONTROL PLAN SHALL BE SUBJECT TO APPROVAL BY THE TRAFFIC ENGINEER, WHO MAY ATTACH SPECIAL CONDITIONS TO, OR REQUIRE MODIFICATIONS OF, THE TRAFFIC CONTROL PLAN. CONSTRUCTION SHALL NOT BEGIN UNTIL THE PLAN IS APPROVED BY THE CITY TRAFFIC ENGINEER.
- THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN ALL NECESSARY BARRIERS, FENCES, LIGHTS, WARNING SIGNS AND OTHER DEVICES NECESSARY TO SAFEGUARD TRAFFIC AND THE PUBLIC DURING WORKING AND NON-WORKING HOURS FOR THE DURATION OF THE PROJECT. SITE SHALL BE LEFT WITH APPROPRIATE SAFETY MEASURES IN PLACE DURING NON-WORKING HOURS. NO TRENCH SHALL BE LEFT OPEN DURING NON-WORKING HOURS. SITE SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR, DURING BOTH WORKING AND NON-WORKING HOURS.
- IT IS THE CONTRACTORS RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS PRIOR TO BIDDING.

- ON ALL "ALTER", "MODIFY" AND "REMOVE" STRUCTURES, THE CONTRACTOR SHALL REMOVE ABANDONED PIPES OR PLUG AND FILL WITH FLOWABLE FILL.
- THE COST OF REMOVING EXISTING STRUCTURES AND/OR PIPES SHALL BE INCIDENTAL TO THE COST OF THE REPLACEMENT STRUCTURE AND/OR PIPE WHEN REPLACED IN THE SAME VICINITY. REFER TO SPECIFICATION SECTION 202.08.
- RESTRICT ACCESS TO SITE THROUGH THE USE OF APPROPRIATE SIGNAGE, BARRIERS, FENCES, ETC. SITE SHALL BE LEFT WITH APPROPRIATE SAFETY MEASURES IN PLACE DURING NON-WORKING HOURS. NO TRENCH SHALL BE LEFT OPEN DURING NON-WORKING HOURS. SITE SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR, DURING BOTH WORKING AND NON-WORKING HOURS.
- CAPPED PIPE STUB LOCATIONS SHALL BE MARKED WITH EMBEDDED STAKE AND A MINIMUM OF THREE TIES SHOULD BE RECORDED. EMBEDDED STAKE SHALL BE 2X4 WITH PK NAIL DRIVEN IN TOP. LENGTH AS REQUIRED TO SPAN FROM TOP OF PIPE TO 6' BELOW GRADE. LOCATION AND ELEVATION OF PIPE STUB SHALL BE PROVIDED TO THE CITY OF PORTLAND ENGINEERING OFFICE. WARNING TAPE AND WIRE SHALL BE INSTALLED OVER PIPE STUBS IN ACCORDANCE WITH SPECIFICATIONS.
- THE FOLLOWING SHALL BE INCIDENTAL TO THE 603 & 604 PAY ITEMS: - CUTTING OF PIPE AND/OR CONNECTIONS NECESSARY TO CONSTRUCT NEW STORM DRAIN & SEWER PIPE AND APPURTENANCES - WORK & MATERIALS NECESSARY TO CONNECT NEW OR EXISTING PIPES TO CATCH BASINS OR MANHOLES - CHANGES TO FLOW LINES/PROFILE GRADES/PIPE INVERTS.
- AT LOCATIONS WHERE EXISTING CATCH BASINS ARE BEING REMOVED AND NEW CATCH BASINS ADDED IN A DIFFERENT LOCATION, CONTRACTOR SHALL REGRADE THE AREA WHERE THE OLD BASIN IS BEING REMOVED TO BLEND IN SMOOTHLY WITH ADJACENT STREET GRADES. AT THE LOCATION OF THE NEW CATCH BASIN, CONTRACTOR SHALL CONSTRUCT APPROPRIATE DEPRESSION PER THE CITY OF PORTLAND DETAILS AND STANDARDS.
- ALL SIDEWALK CONSTRUCTION SHALL CONFORM TO THE APPROPRIATE ADA/PROWAG STANDARDS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
  - WALKWAYS SHALL HAVE A MAXIMUM CROSS SLOPE (PERPENDICULAR TO THE DIRECTION OF TRAVEL) OF 2% AND A MAXIMUM LONGITUDINAL SLOPE (ALONG THE DIRECTION OF TRAVEL) OF 5%, UNLESS LONGITUDINAL SLOPE OF ROADWAY IS STEEPER.
  - CURB RAMPS MAY HAVE A RUNNING SLOPE OF UP TO 8% (1" PER FOOT), BUT ARE NOT REQUIRED TO EXCEED 15' IN LENGTH. WHERE 8% RUNNING SLOPE IS NOTE POSSIBLE, CURB STONES ARE TO BE SET TO PROVIDE CONSTANT SLOPE OVER 15', ALONG TOP-OF-CURB. FROM FULL CURB REVEAL TO FLUSH CURB.
  - LANDING AREAS SHALL HAVE A MAXIMUM SLOPE OF 2% IN ALL DIRECTIONS.
  - IF THE CONTRACTOR DETERMINES THAT THE ABOVE STANDARDS ARE NOT COMPATIBLE WITH SITE CONDITIONS THEY SHALL CONTACT THE ENGINEER/RESIDENT INSPECTOR UPON DISCOVERY AND REQUEST GUIDANCE. INSTALLATION OF A RAMP OR SIDEWALK SEGMENT WITHOUT GUIDANCE FROM AND APPROVAL OF ENGINEER/RESIDENT, AND WHICH DOES NOT MEET ADA STANDARDS WILL NOT BE ACCEPTED.
  - CONTRACTOR TO FIELD VERIFY LIMITS OF WORK AND GRADING OF DRIVEWAYS WITH ENGINEER/RESIDENT INSPECTOR PRIOR TO BEGINNING WORK. SAW CUTS TO BE MARKED OUT AND VERIFIED WITH ENGINEERING PRIOR TO CUTTING.

TEMPORARY EROSION CONTROL MEASURES

- MAINTENANCE OF EROSION CONTROL MEASURES IS OF PARAMOUNT IMPORTANCE TO THE CITY. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL EROSION CONTROL MEASURES SHOWN ON THE PLANS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTIONS OF THE CITY OR THEIR REPRESENTATIVES AT NO ADDITIONAL COST TO THE CITY.
- LAND DISTURBING ACTIVITIES SHALL BE ACCOMPLISHED IN A MANNER AND SEQUENCE THAT CAUSES THE LEAST PRACTICAL DISTURBANCE OF THE SITE.
- PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL INSTALL EROSION CONTROL BMPs FOR ALL STORM DRAIN INLETS IN THE VICINITY OF THE WORK ZONE AS SHOWN IN THE DETAILS.
- SILTATION FENCE SHALL BE INSTALLED DOWN GRADIENT OF ANY DISTURBED AREAS TO TRAP RUNOFF-BORNE SEDIMENTS UNTIL GRASS AREAS ARE REVEGETATED. THE SILT FENCE SHALL BE INSTALLED PER THE DETAILS PROVIDED ON THIS PLAN AND INSPECTED BEFORE AND IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. REPAIRS SHALL BE MADE IF THERE ARE ANY SIGNS OF EROSION OR SEDIMENTATION BELOW THE FENCE LINE. IF THERE ARE SIGNS OF UNDERCUTTING AT THE CENTER OR THE EDGES, OR IMPOUNDING OF LARGE VOLUMES OF WATER BEHIND THE FENCE, THE BARRIER SHALL BE REPLACED WITH A STONE CHECK DAM.
- FOR WORK WHICH IS CONDUCTED BETWEEN SEPTEMBER 15TH AND APRIL 15TH OF ANY CALENDAR YEAR, ALL DISTURBED AREAS, SHALL BE COVERED WITH HAY MULCH OR EROSION CONTROL MIX, APPLIED AT TWICE THE NORMAL APPLICATION RATE AND ANCHORED WITH A FABRIC NETTING. THE TIME PERIOD FOR APPLYING MULCH SHALL BE LIMITED TO 7 DAYS FOR ALL AREAS.
- PUBLIC WAYS SHALL BE SWEEP, AS NECESSARY, TO CONTROL MUD AND DUST.
- SILT FENCING WITH A MINIMUM STAKE SPACING OF 6 FEET SHOULD BE USED, UNLESS THE FENCE IS SUPPORTED BY WIRE FENCE REINFORCEMENT OF MINIMUM 14 GAUGE AND WITH A MAXIMUM MESH SPACING OF 6 INCHES, IN WHICH CASE STAKES MAY BE SPACED A MAXIMUM OF 10 FEET APART. THE BOTTOM OF THE FENCE SHALL BE EMBEDDED IN A SOIL TRENCH.
- WATER AND/OR CALCIUM CHLORIDE SHALL BE FURNISHED AND APPLIED IN ACCORDANCE WITH MAINE DOT SPECIFICATIONS - SECTION 637 - DUST CONTROL.
- LOAM AND SEED IS INTENDED TO SERVE AS THE PRIMARY PERMANENT REVEGETATIVE MEASURE FOR ALL DISTURBED AREAS NOT PROVIDED WITH OTHER EROSION CONTROL MEASURES, SUCH AS RIPRAP.



DATE	REVISION	DESCRIPTION

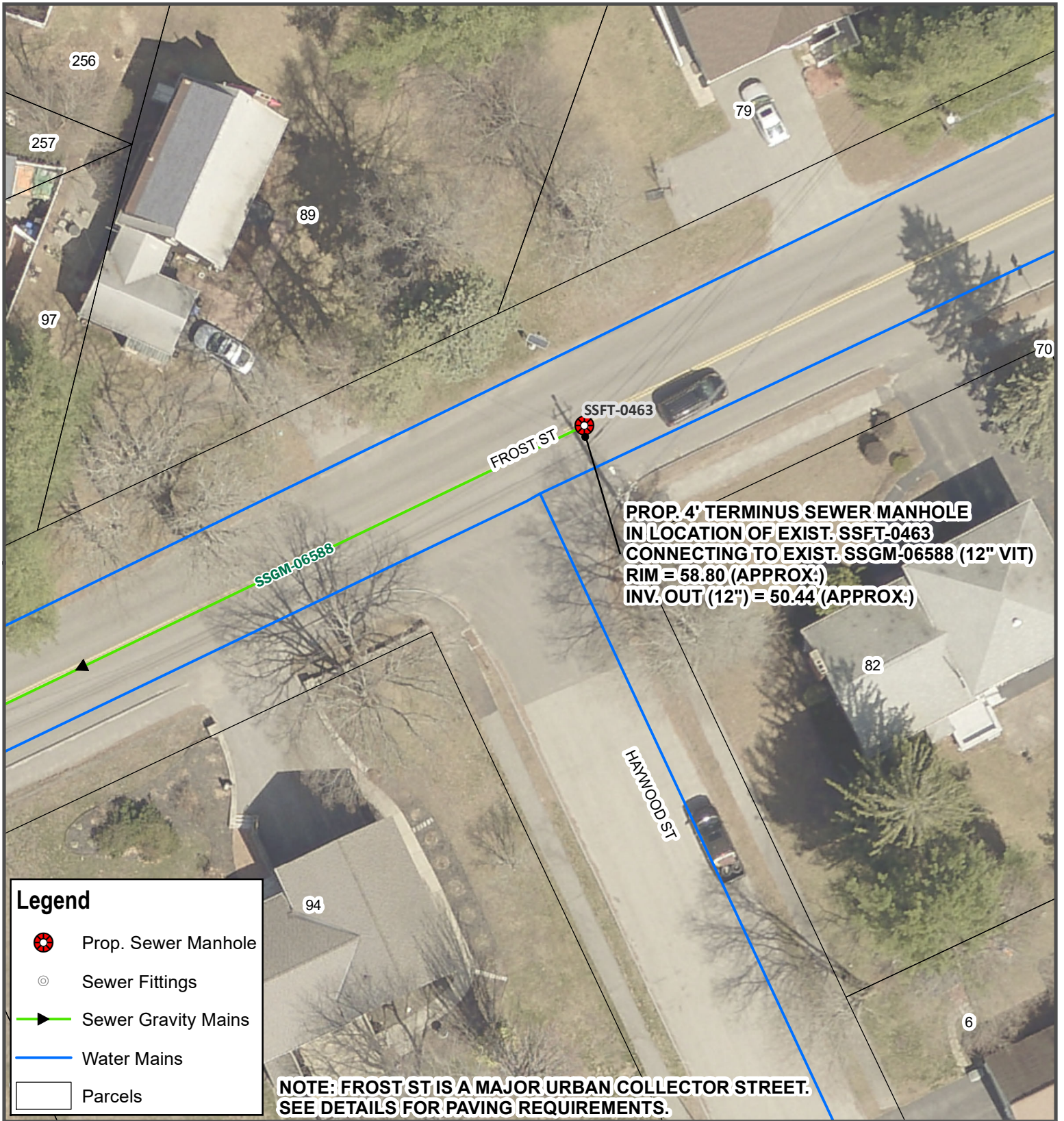
PROJECT NAME:  
**2025-2028 NEIGHBORHOOD DRAINAGE AND SEWER SYSTEM REPAIR CONTRACT**  
 CITY OF PORTLAND, MAINE  
 DEPARTMENT OF PUBLIC WORKS  
 WATER RESOURCES DIVISION  
 212 CANCO ROAD, SUITE B, PORTLAND, MAINE 04103  
 PHONE (207) 874-8846



DESIGN BY: RHA  
 DRAWN BY: RHA  
 CHECKED BY: JRP  
 SHEET NAME: GENERAL NOTES

DATE: 7/22/2025  
 PAGE 2 OF 21  
 SHEET NO.: G-01 REV.:  
 VAULT # 01051\_003

S WATER RESOURCES - ENGINEERING/SEWER/STORM INVESTIGATION/2025-2028 NEIGHBORHOOD SO & SEWER REPAIR CONTRACT/CAD/2024/0508 NEIGHBORHOOD DRAINAGE AND SEWER CONTRACT DWG G-01 7/22/2025



**PROP. 4' TERMINUS SEWER MANHOLE  
 IN LOCATION OF EXIST. SSFT-0463  
 CONNECTING TO EXIST. SSGM-06588 (12" VIT)  
 RIM = 58.80 (APPROX.)  
 INV. OUT (12") = 50.44' (APPROX.)**

**Legend**

- Prop. Sewer Manhole
- Sewer Fittings
- Sewer Gravity Mains
- Water Mains
- Parcels

**NOTE: FROST ST IS A MAJOR URBAN COLLECTOR STREET.  
 SEE DETAILS FOR PAVING REQUIREMENTS.**



CITY OF PORTLAND, MAINE  
 DEPT. OF PUBLIC WORKS  
 212 CANCO ROAD, PORTLAND, MAINE 04103  
 PHONE (207) 874-8846 FAX (207) 874-8852

**2025-2028 NEIGHBORHOOD  
 DRAINAGE AND SEWER  
 SYSTEM REPAIR CONTRACT**

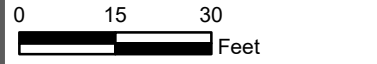
**FROST ST  
 TERMINUS MANHOLE**

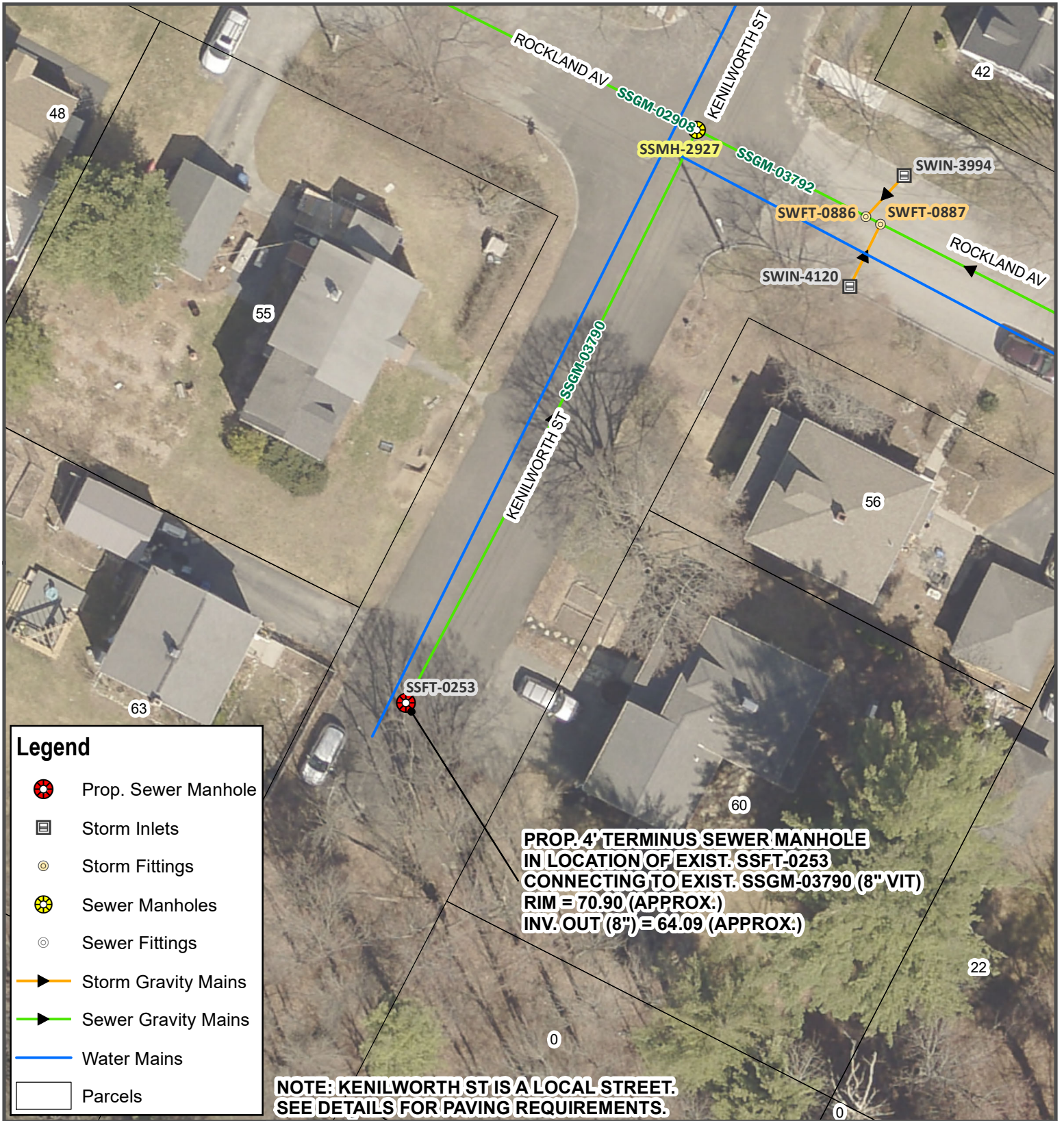
REV	SUBMISSION	DATE



**PROJECT ID**  
**SS-01**  
 PAGE 3 OF 21  
 JULY 2025

DESIGN BY: RHA | DRAWN BY: RHA | CHECK BY: JRP





**PROP. 4' TERMINUS SEWER MANHOLE  
 IN LOCATION OF EXIST. SSFT-0253  
 CONNECTING TO EXIST. SSGM-03790 (8" VIT)  
 RIM = 70.90 (APPROX.)  
 INV. OUT (8") = 64.09 (APPROX.)**

**NOTE: KENILWORTH ST IS A LOCAL STREET.  
 SEE DETAILS FOR PAVING REQUIREMENTS.**

**Legend**

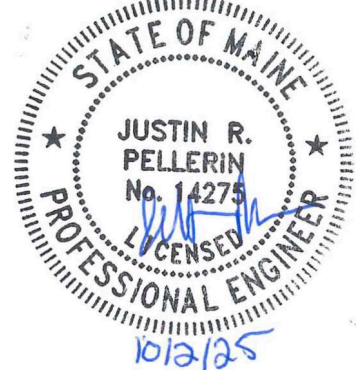
- Prop. Sewer Manhole
- Storm Inlets
- Storm Fittings
- Sewer Manholes
- Sewer Fittings
- Storm Gravity Mains
- Sewer Gravity Mains
- Water Mains
- Parcels



CITY OF PORTLAND, MAINE  
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**2025-2028 NEIGHBORHOOD  
 DRAINAGE AND SEWER  
 SYSTEM REPAIR CONTRACT**  
**KENILWORTH ST  
 TERMINUS MANHOLE**

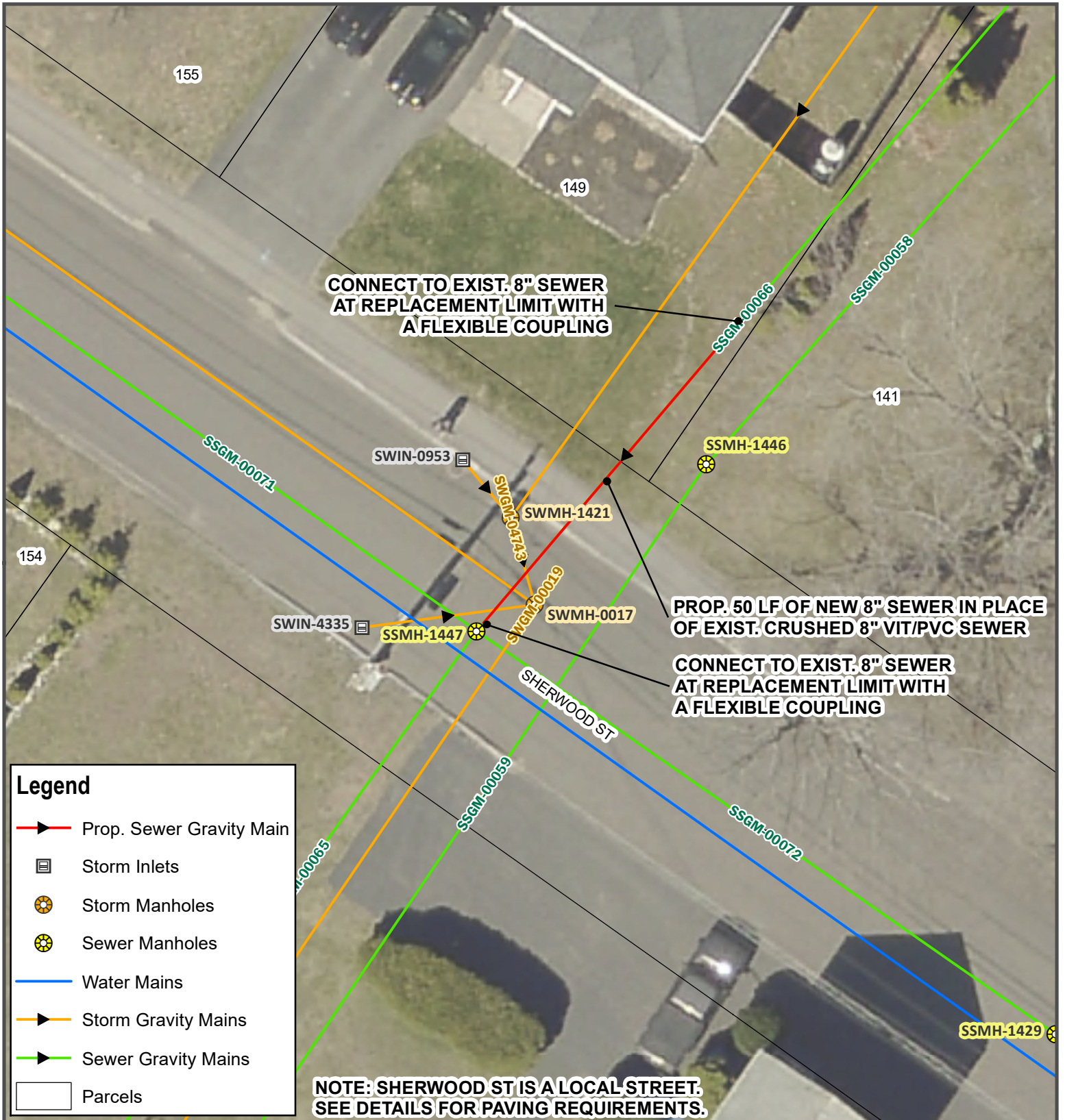
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**PROJECT ID**  
**SS-02**  
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 JULY 2025

DESIGN BY: RHA | DRAWN BY: RHA | CHECK BY: JRP

0 15 30  
 Feet



CONNECT TO EXIST. 8" SEWER  
AT REPLACEMENT LIMIT WITH  
A FLEXIBLE COUPLING

PROP. 50 LF OF NEW 8" SEWER IN PLACE  
OF EXIST. CRUSHED 8" VIT/PVC SEWER

CONNECT TO EXIST. 8" SEWER  
AT REPLACEMENT LIMIT WITH  
A FLEXIBLE COUPLING

NOTE: SHERWOOD ST IS A LOCAL STREET.  
SEE DETAILS FOR PAVING REQUIREMENTS.

**Legend**

- Prop. Sewer Gravity Main
- Storm Inlets
- Storm Manholes
- Sewer Manholes
- Water Mains
- Storm Gravity Mains
- Sewer Gravity Mains
- Parcels

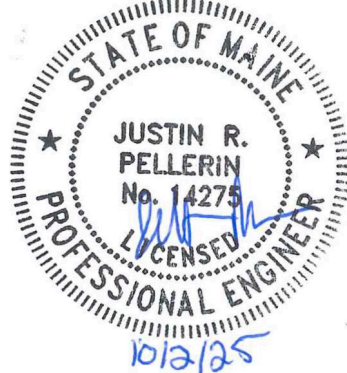


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2025-2028 NEIGHBORHOOD  
DRAINAGE AND SEWER  
SYSTEM REPAIR CONTRACT

SHERWOOD ST  
SEWER REPLACEMENT

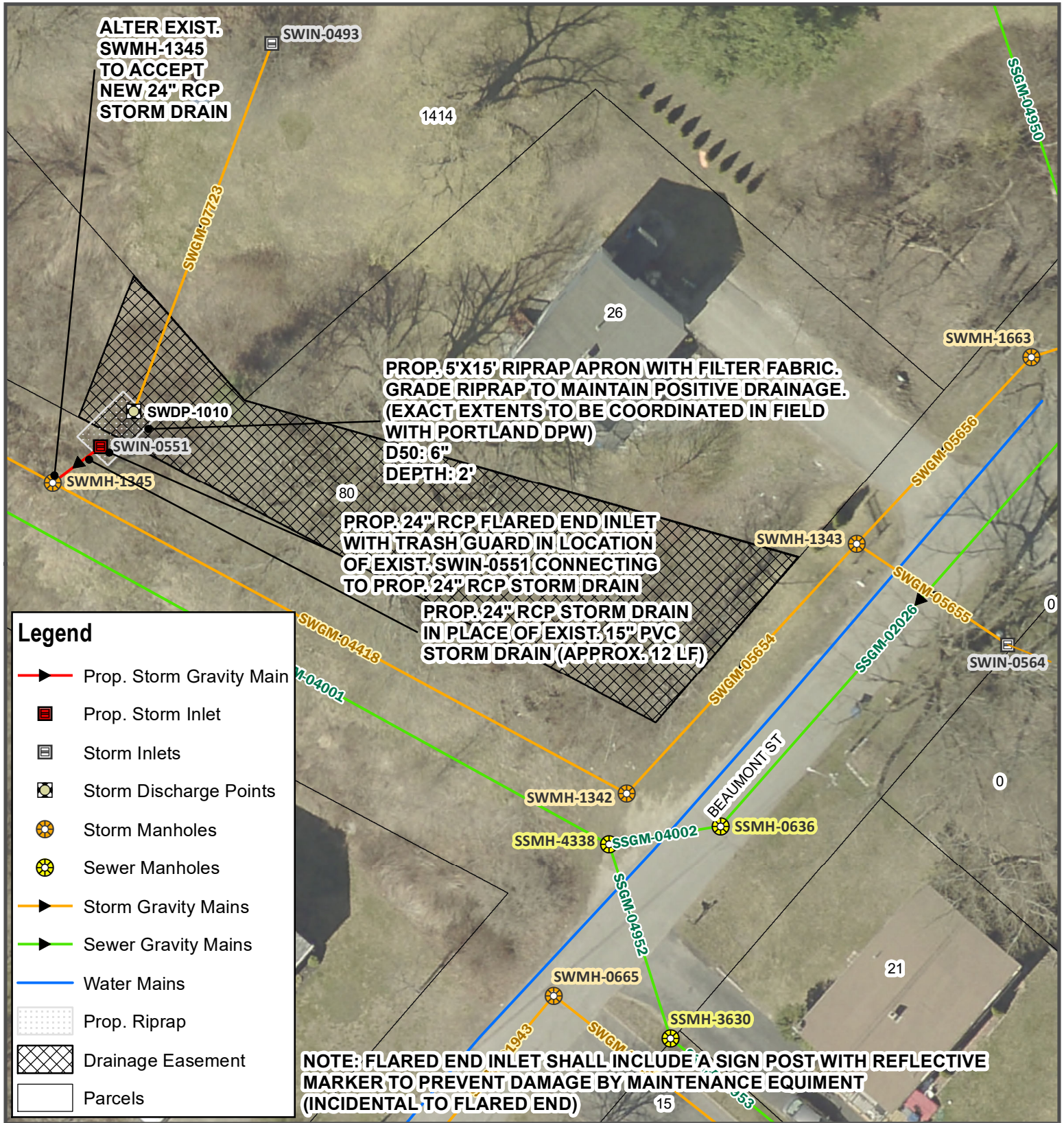
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**PROJECT ID**  
**SS-03**  
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JULY 2025

DESIGN BY: RHA | DRAWN BY: RHA | CHECK BY: JRP

0 7.5 15  
Feet



**Legend**

- Prop. Storm Gravity Main
- Prop. Storm Inlet
- Storm Inlets
- Storm Discharge Points
- Storm Manholes
- Sewer Manholes
- Storm Gravity Mains
- Sewer Gravity Mains
- Water Mains
- Prop. Riprap
- Drainage Easement
- Parcels

**2025-2028 NEIGHBORHOOD DRAINAGE AND SEWER SYSTEM REPAIR CONTRACT**  
**BEAUMONT ST INLET IMPROVEMENTS**

REV	SUBMISSION	DATE

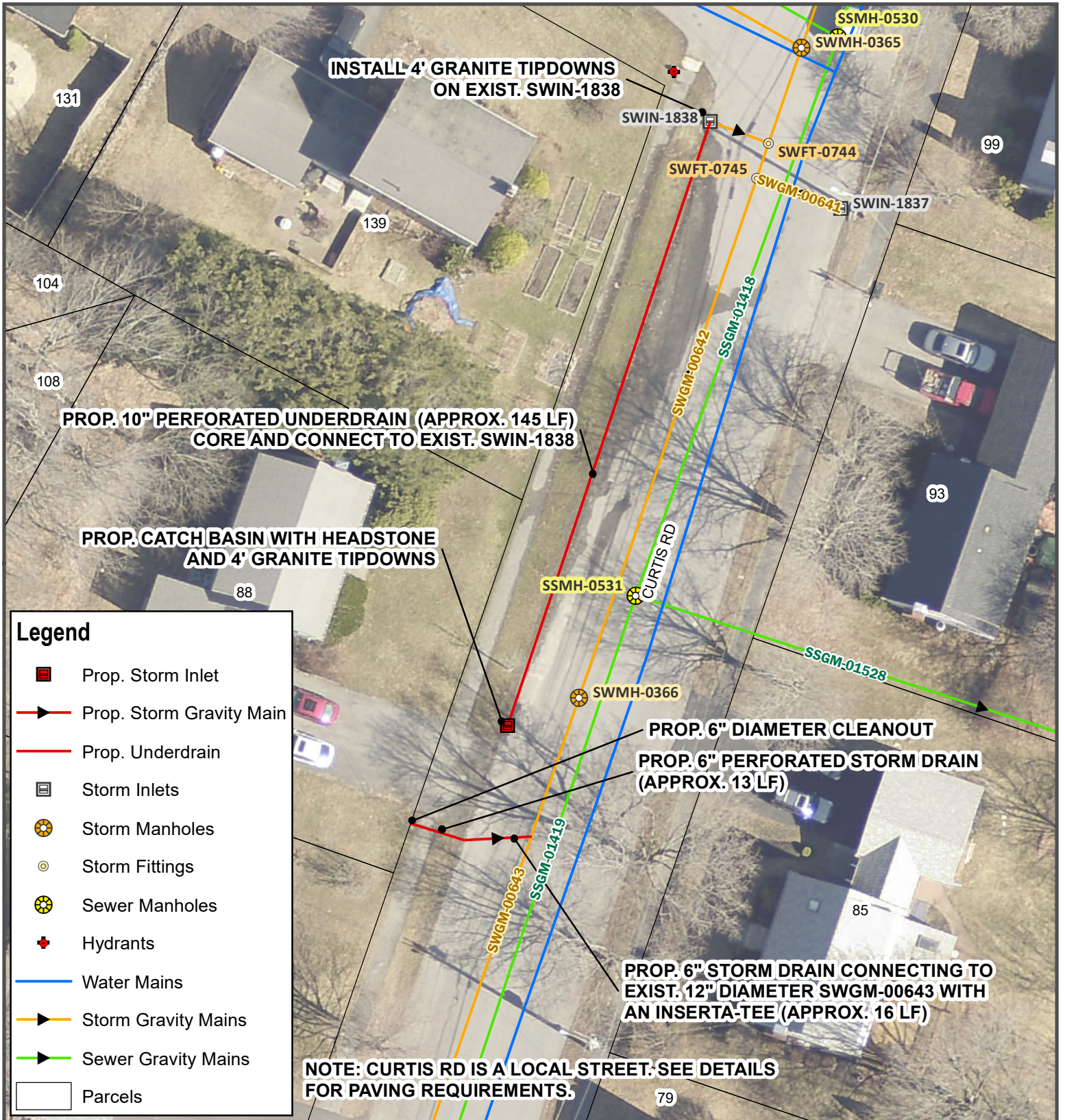


**PROJECT ID**  
**SW-01**  
 PAGE 6 OF 21  
 JULY 2025

DESIGN BY: RHA | DRAWN BY: RHA | CHECK BY: JRP

0 15 30  
 Feet

**CITY OF PORTLAND, MAINE**  
**DEPT. OF PUBLIC WORKS**  
 212 CANCO ROAD, PORTLAND, MAINE 04103  
 PHONE (207) 874-8846 FAX (207) 874-8852



CITY OF PORTLAND, MAINE  
 DEPT. OF PUBLIC WORKS  
 212 CANCO ROAD, PORTLAND, MAINE 04103  
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**2025-2028 NEIGHBORHOOD DRAINAGE AND SEWER SYSTEM REPAIR CONTRACT**

**CURTIS RD UNDERDRAIN**

REV	SUBMISSION	DATE



**PROJECT ID**  
**SW-02**

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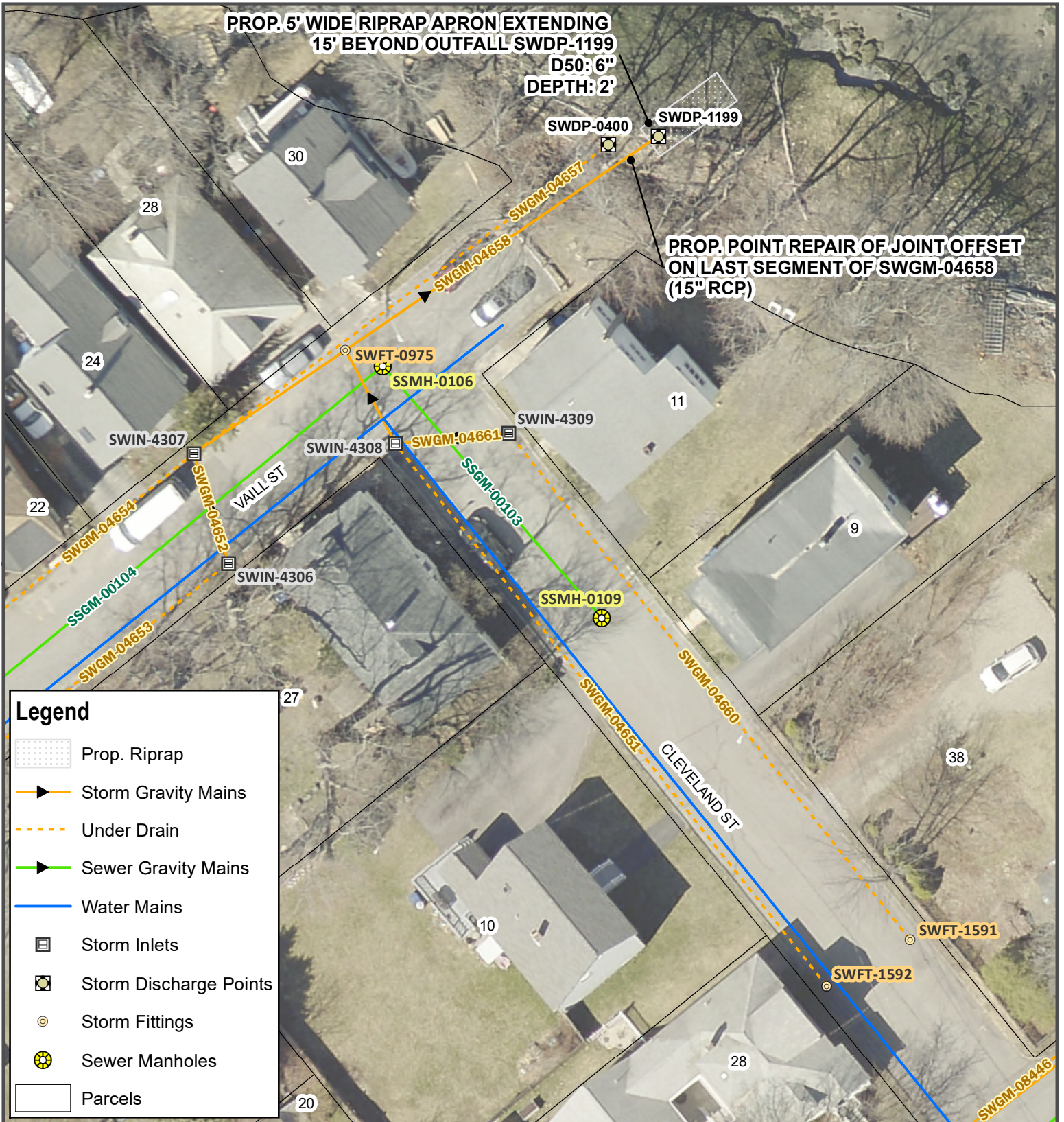
DESIGN BY: RHA | DRAWN BY: RHA | CHECK BY: JRP

0 15 30  
 Feet











**PROP. 5' WIDE RIPRAP APRON EXTENDING  
15' BEYOND OUTFALL SWDP-1199**

**D50: 6"  
DEPTH: 2'**

**PROP. POINT REPAIR OF JOINT OFFSET  
ON LAST SEGMENT OF SWGM-04658  
(15" RCP)**



**Legend**

-  Prop. Riprap
-  Storm Gravity Mains
-  Under Drain
-  Sewer Gravity Mains
-  Water Mains
-  Storm Inlets
-  Storm Discharge Points
-  Storm Fittings
-  Sewer Manholes
-  Parcels



CITY OF PORTLAND, MAINE  
DEPT. OF PUBLIC WORKS  
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PHONE (207) 874-8846 FAX (207) 874-8852

**2025-2028 NEIGHBORHOOD  
DRAINAGE AND SEWER  
SYSTEM REPAIR CONTRACT**

**VAILL ST  
POINT REPAIR**

REV	SUBMISSION	DATE



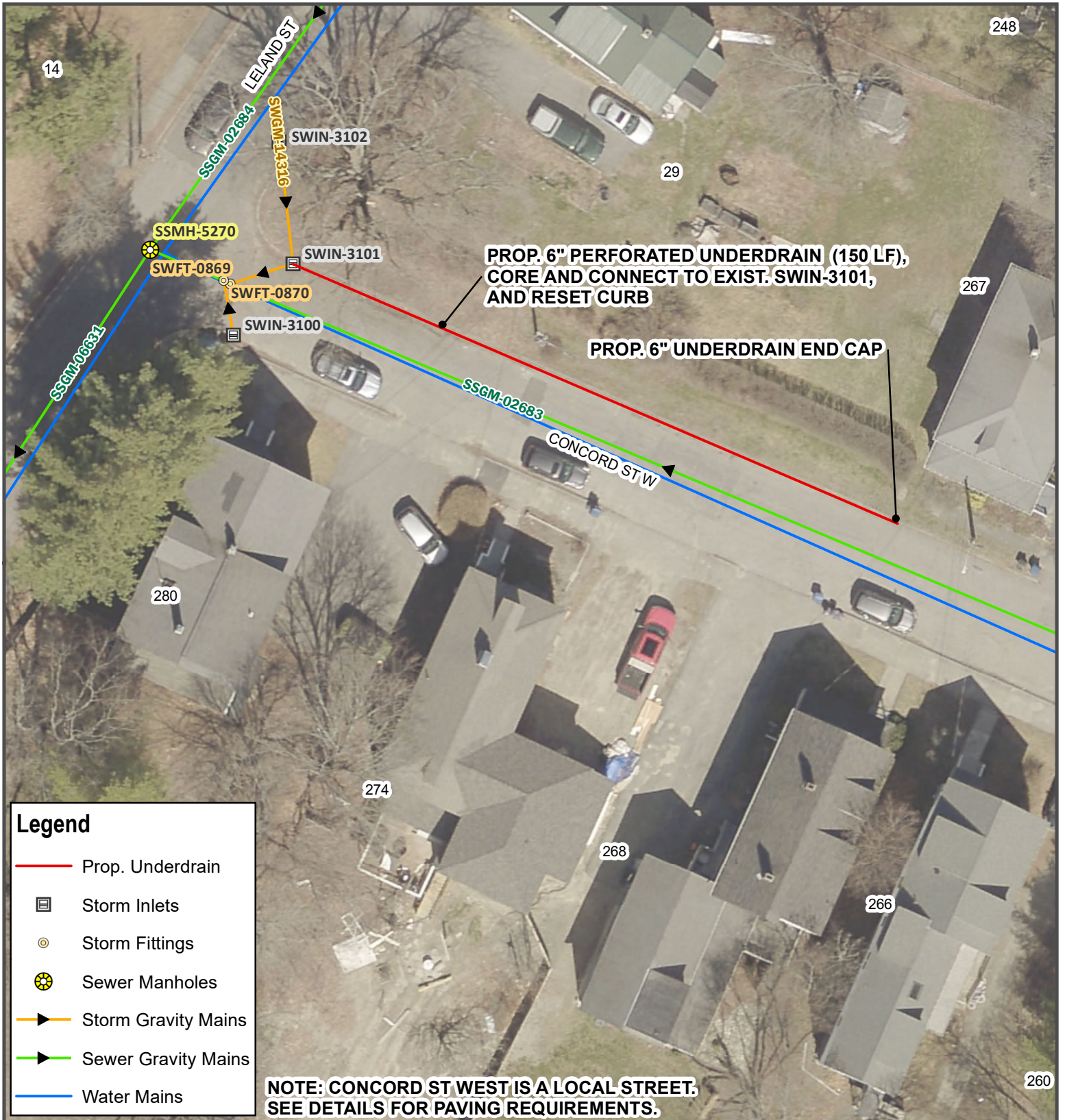
**PROJECT ID  
SW-03**

PAGE 8 OF 21  
JULY 2025

DESIGN BY: RHA | DRAWN BY: RHA | CHECK BY: JRP



Vault #: 01051\_003



**Legend**

- Prop. Underdrain
- Storm Inlets
- Storm Fittings
- Sewer Manholes
- ▶ Storm Gravity Mains
- ▶ Sewer Gravity Mains
- Water Mains

**NOTE: CONCORD ST WEST IS A LOCAL STREET. SEE DETAILS FOR PAVING REQUIREMENTS.**



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**2025-2028 NEIGHBORHOOD DRAINAGE AND SEWER SYSTEM REPAIR CONTRACT**  
**CONCORD ST WEST UNDERDRAIN**

REV	SUBMISSION	DATE

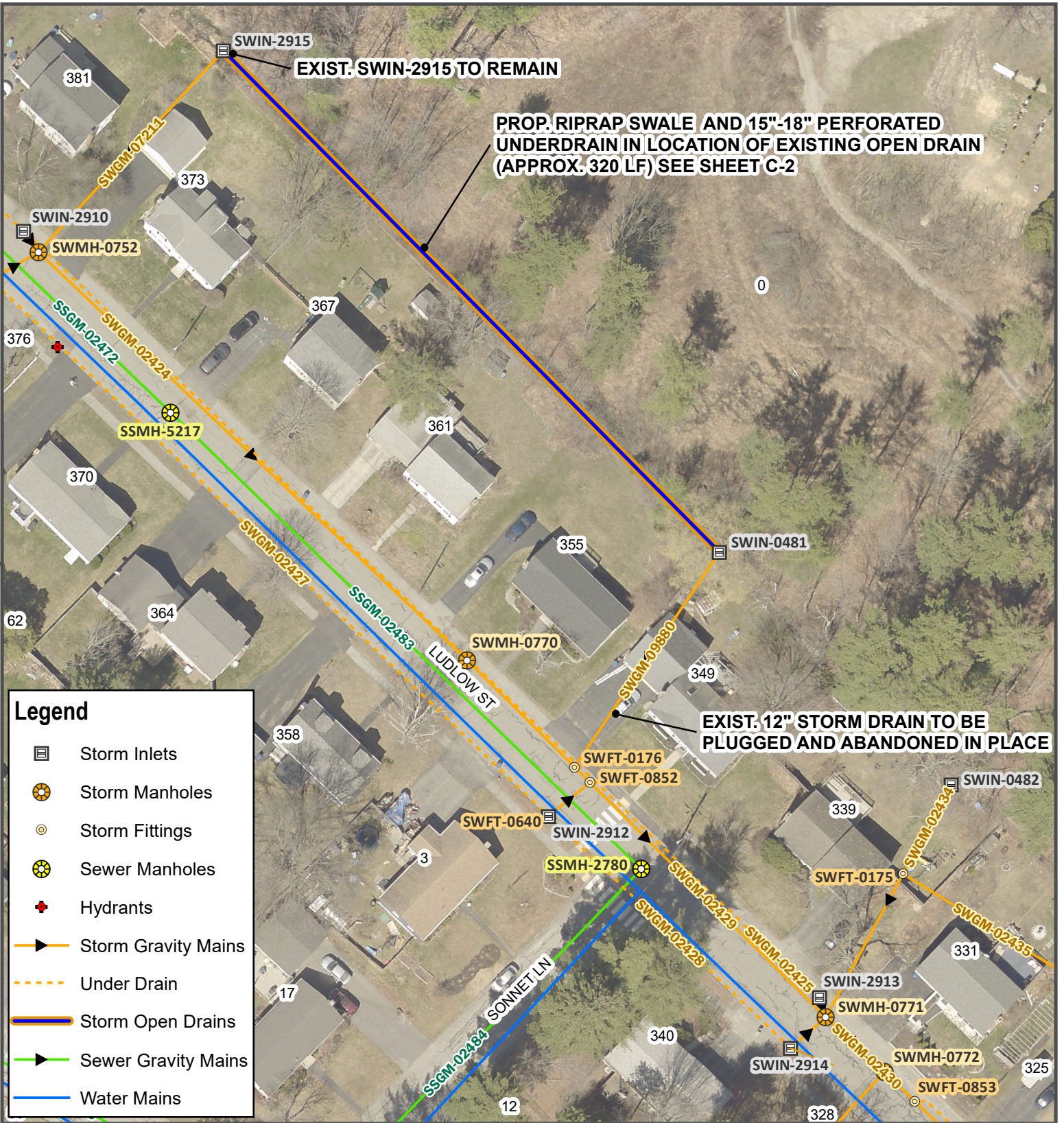


**PROJECT ID**  
**SW-04**  
 PAGE 9 OF 21  
 JULY 2025






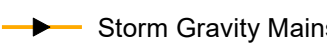
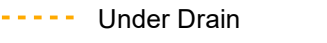
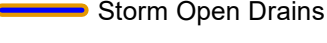
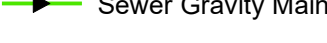
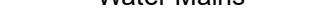
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 Feet





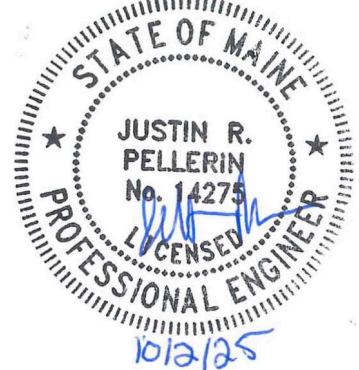
**Legend**

-  Storm Inlets
-  Storm Manholes
-  Storm Fittings
-  Sewer Manholes
-  Hydrants
-  Storm Gravity Mains
-  Under Drain
-  Storm Open Drains
-  Sewer Gravity Mains
-  Water Mains

**2025-2028 NEIGHBORHOOD  
DRAINAGE AND SEWER  
SYSTEM REPAIR CONTRACT**

**LUDLOW ST SWALE  
IMPROVEMENTS**

REV	SUBMISSION	DATE



**PROJECT ID**  
**SW-06**

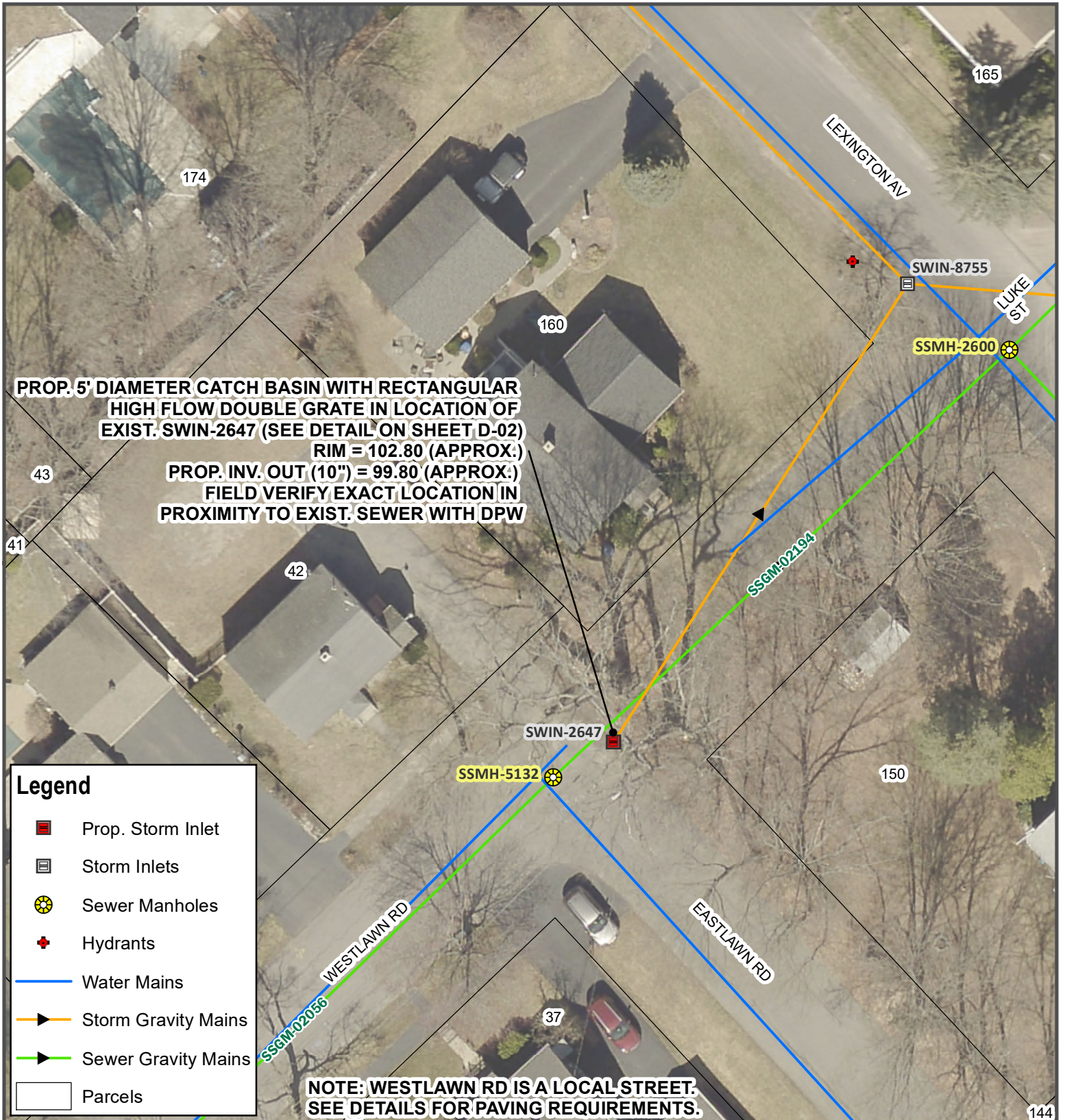
PAGE 11 OF 21  
JULY 2025

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0 30 60  
Feet



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**PROP. 5' DIAMETER CATCH BASIN WITH RECTANGULAR HIGH FLOW DOUBLE GRATE IN LOCATION OF EXIST. SWIN-2647 (SEE DETAIL ON SHEET D-02)**  
**RIM = 102.80 (APPROX.)**  
**PROP. INV. OUT (10") = 99.80 (APPROX.)**  
**FIELD VERIFY EXACT LOCATION IN PROXIMITY TO EXIST. SEWER WITH DPW**

**Legend**

- Prop. Storm Inlet
- Storm Inlets
- Sewer Manholes
- Hydrants
- Water Mains
- Storm Gravity Mains
- Sewer Gravity Mains
- Parcels

**NOTE: WESTLAWN RD IS A LOCAL STREET. SEE DETAILS FOR PAVING REQUIREMENTS.**



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**2025-2028 NEIGHBORHOOD DRAINAGE AND SEWER SYSTEM REPAIR CONTRACT**  
**WESTLAWN RD INLET IMPROVEMENTS**

REV	SUBMISSION	DATE



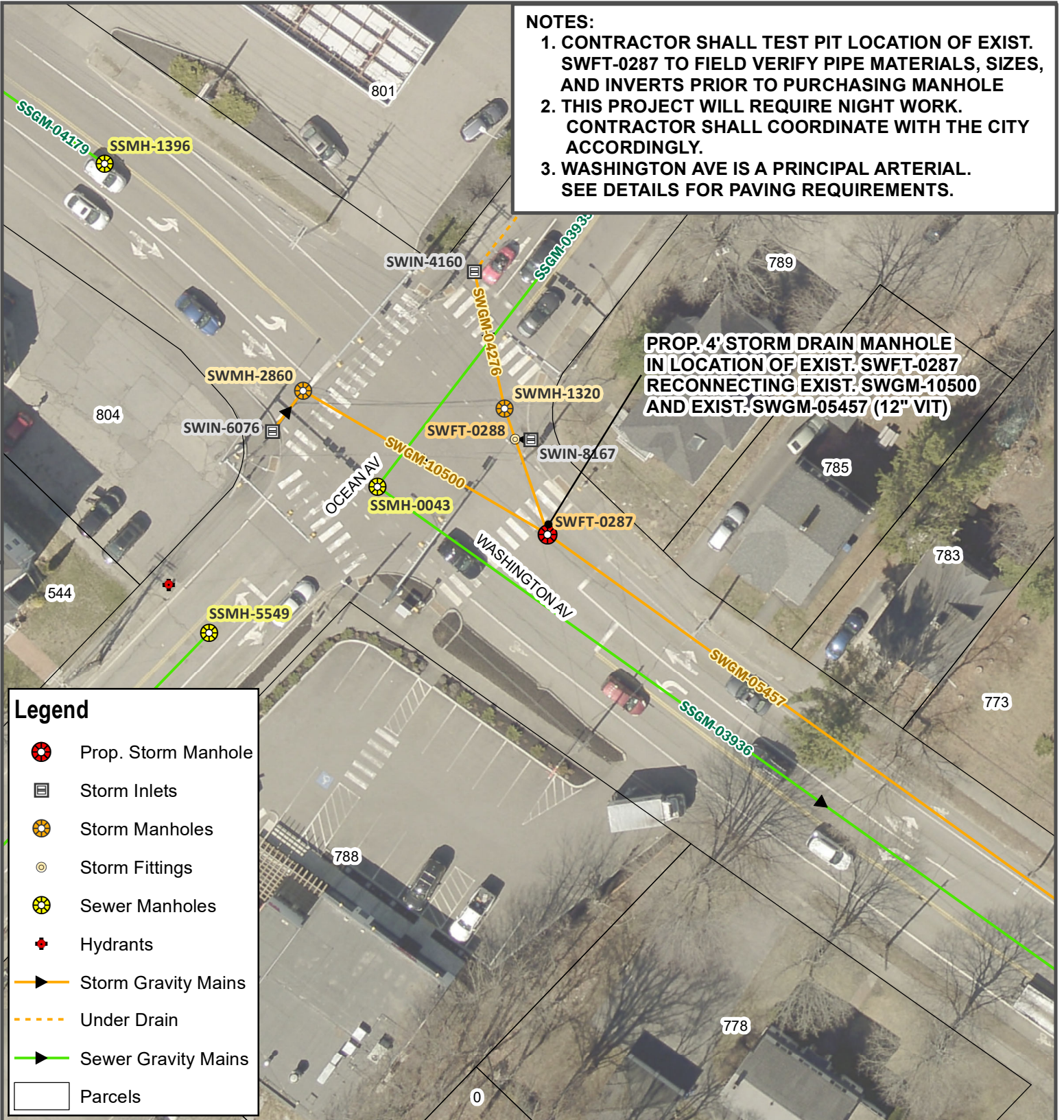
**PROJECT ID**  
**SW-07**  
 PAGE 12 OF 21  
 JULY 2025

DESIGN BY: RHA | DRAWN BY: RHA | CHECK BY: JRP

0 15 30  
 Feet

**NOTES:**

1. CONTRACTOR SHALL TEST PIT LOCATION OF EXIST. SWFT-0287 TO FIELD VERIFY PIPE MATERIALS, SIZES, AND INVERTS PRIOR TO PURCHASING MANHOLE
2. THIS PROJECT WILL REQUIRE NIGHT WORK. CONTRACTOR SHALL COORDINATE WITH THE CITY ACCORDINGLY.
3. WASHINGTON AVE IS A PRINCIPAL ARTERIAL. SEE DETAILS FOR PAVING REQUIREMENTS.



**PROP. 4' STORM DRAIN MANHOLE  
IN LOCATION OF EXIST. SWFT-0287  
RECONNECTING EXIST. SWGM-10500  
AND EXIST. SWGM-05457 (12" VIT)**

**Legend**

- Prop. Storm Manhole
- Storm Inlets
- Storm Manholes
- Storm Fittings
- Sewer Manholes
- Hydrants
- Storm Gravity Mains
- Under Drain
- Sewer Gravity Mains
- Parcels



**2025-2028 NEIGHBORHOOD  
DRAINAGE AND SEWER  
SYSTEM REPAIR CONTRACT**  
**WASHINGTON AVE  
DRAIN MANHOLE**

REV	SUBMISSION	DATE



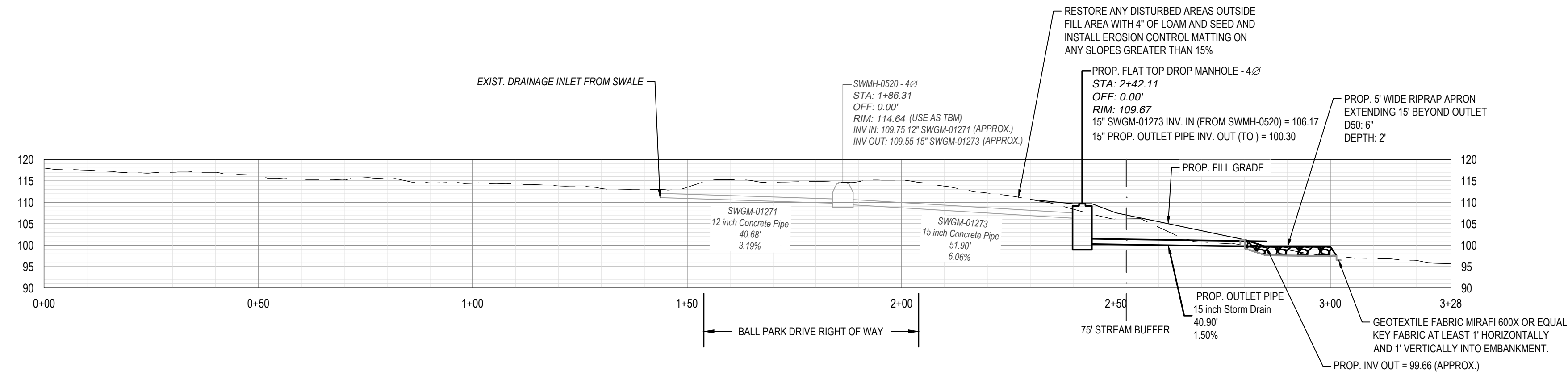
**PROJECT ID**  
**SW-08**  
PAGE 13 OF 21  
JULY 2025

DESIGN BY: RHA | DRAWN BY: RHA | CHECK BY: JRP

0 20 40  
Feet

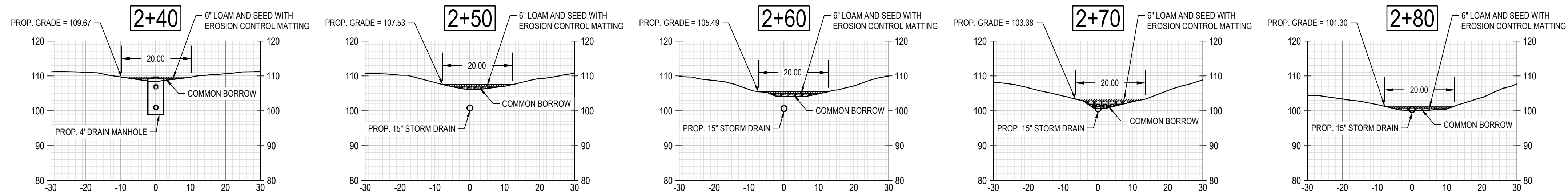
CITY OF PORTLAND, MAINE  
DEPT. OF PUBLIC WORKS  
212 CANCO ROAD, PORTLAND, MAINE 04103  
PHONE (207) 874-8846 FAX (207) 874-8852

NOTES:  
 1. ANY TREE LINE CLEARING OR GRUBBING REQUIRED TO INSTALL THE STORM DRAIN, RIPRAP APRON, AND REGRADE THE SITE SHALL BE INCIDENTAL TO WORK. ANY TREES GREATER THAN 12" DBH THAT ARE REQUIRED TO BE REMOVED SHALL BE PAID UNDER BID ITEM 201.24. REMOVAL OF TREES SHALL BE LIMITED TO THE EXTENT PRACTICABLE. ALL CLEARING WORK AND TREE REMOVAL SHALL BE COORDINATED WITH THE CITY ARBORIST.



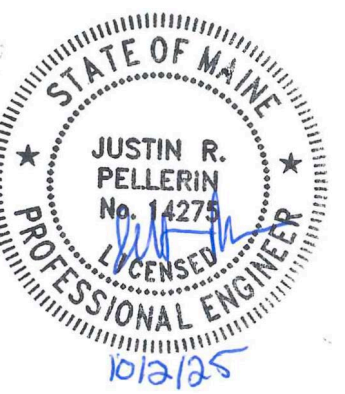
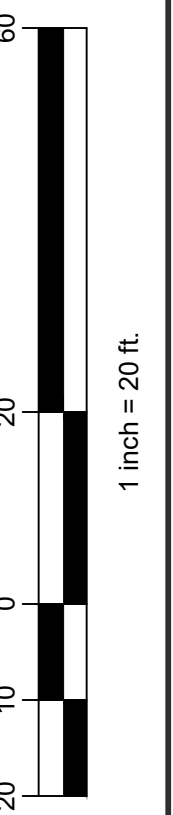
STORM DRAIN MANHOLE AND OUTLET PIPE PROFILE

HORIZONTAL SCALE: 1"=20'  
 VERTICAL SCALE: 1"=20'



STORM DRAIN MANHOLE AND OUTLET PIPE FILL SECTIONS

HORIZONTAL SCALE: 1"=20'  
 VERTICAL SCALE: 1"=20'



REV	SUBMISSION	DATE

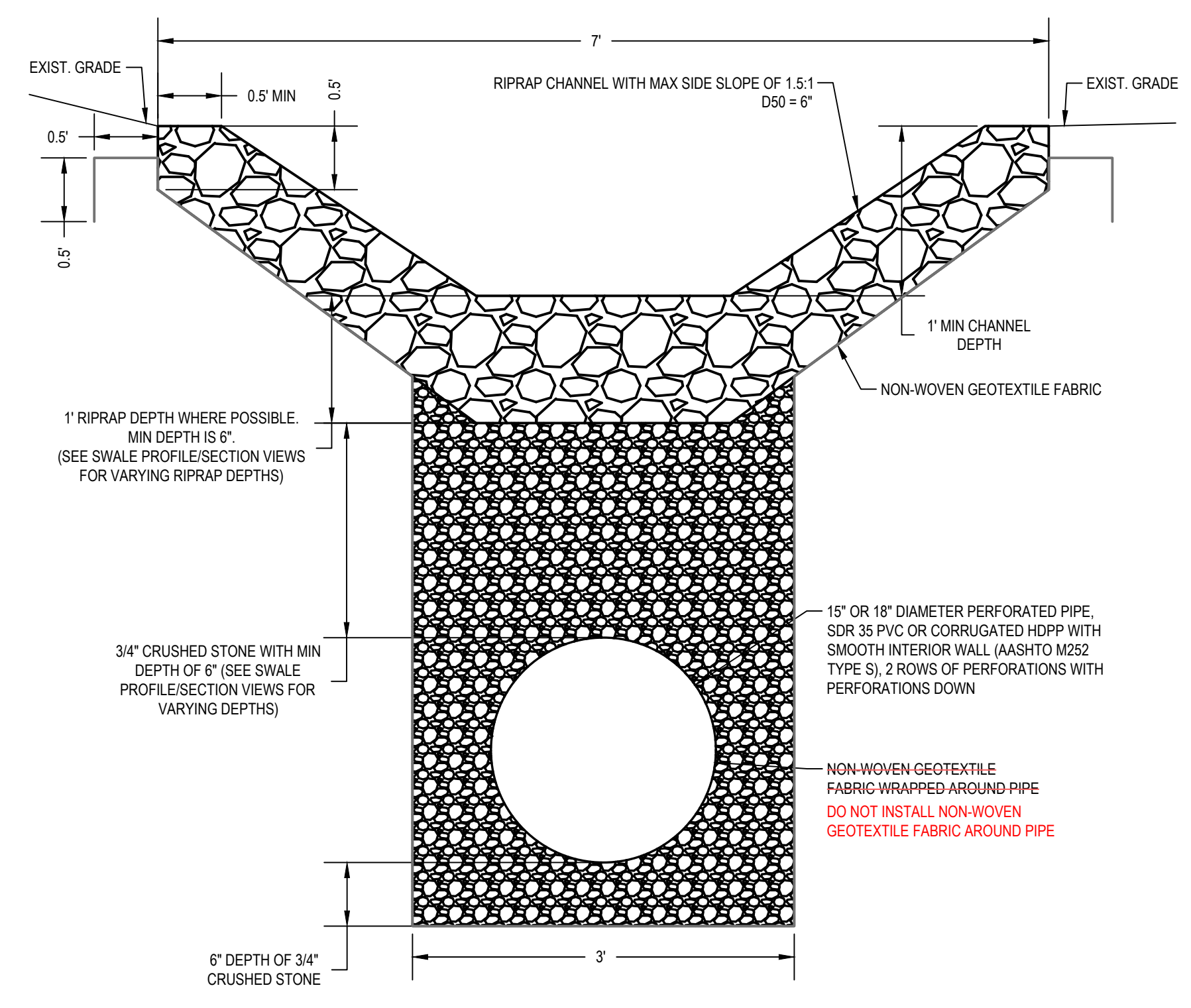
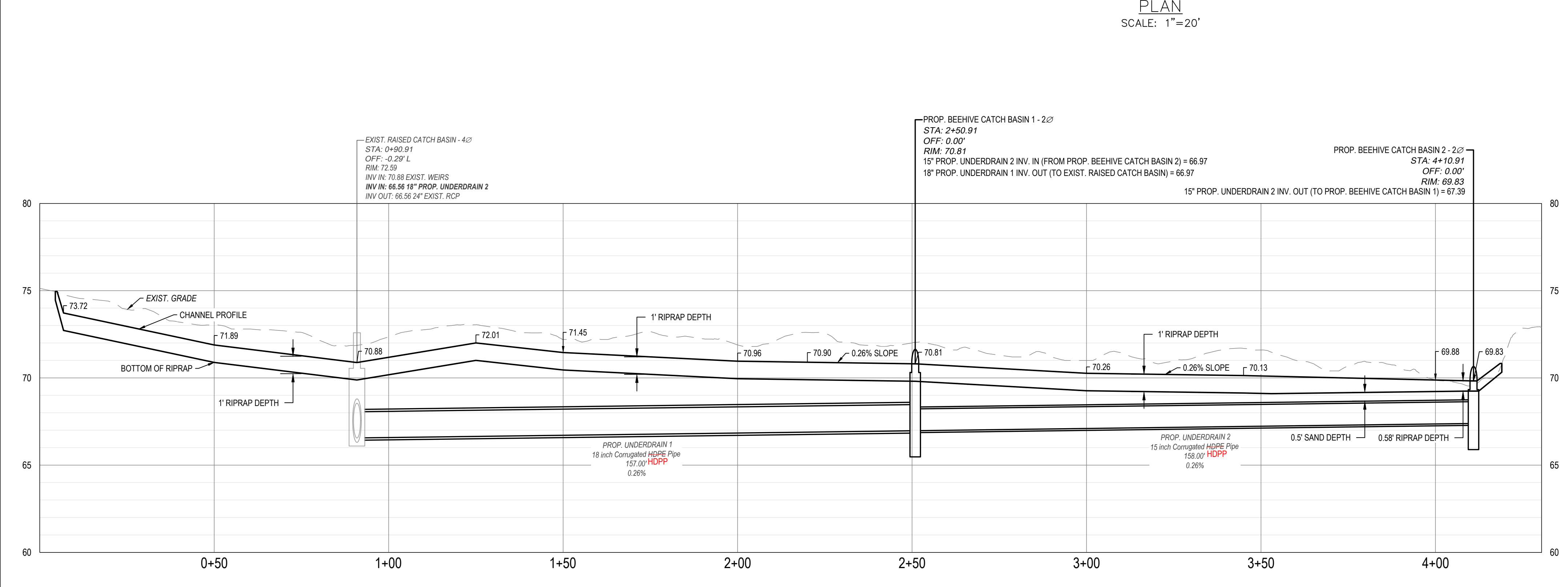
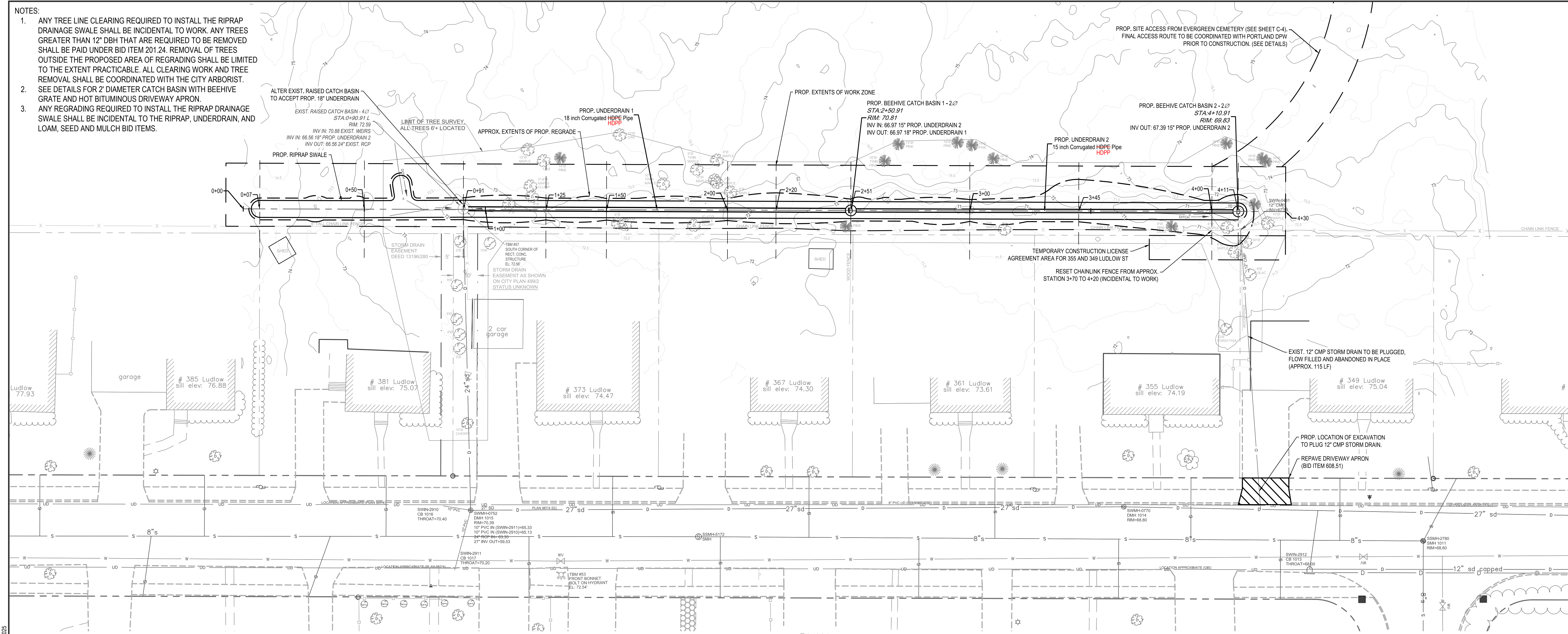
PROJECT NAME:  
 2025-2028 NEIGHBORHOOD  
 DRAINAGE AND SEWER  
 SYSTEM REPAIR CONTRACT  
 CITY OF PORTLAND, MAINE  
 DEPARTMENT OF PUBLIC WORKS  
 WATER RESOURCES DIVISION  
 212 CANCO ROAD, SUITE B, PORTLAND, MAINE 04103  
 PHONE (207) 874-8886



DESIGN BY:	RHA
DRAWN BY:	RHA
CHECKED BY:	JRP
SHEET NAME:	BALL PARK DR OUTFALL REPAIR (SW-05)
DATE:	7/22/2025
PAGE	14 OF 21
SHEET NO.:	C-01
VAULT #:	01051_003

S:\WATER RESOURCES - ENGINEERING\SEWER\STORM INVESTIGATION\2025-2028 NEIGHBORHOOD SD & SEWER REPAIR CONTRACT\CAD\2024\10 BALL PARK DR DWG C-01 7/22/2025

- NOTES:
1. ANY TREE LINE CLEARING REQUIRED TO INSTALL THE RIPRAP DRAINAGE SWALE SHALL BE INCIDENTAL TO WORK. ANY TREES GREATER THAN 12" DBH THAT ARE REQUIRED TO BE REMOVED SHALL BE PAID UNDER BID ITEM 201.24. REMOVAL OF TREES OUTSIDE THE PROPOSED AREA OF REGRADING SHALL BE LIMITED TO THE EXTENT PRACTICABLE. ALL CLEARING WORK AND TREE REMOVAL SHALL BE COORDINATED WITH THE CITY ARBORIST.
  2. SEE DETAILS FOR 2" DIAMETER CATCH BASIN WITH BEEHIVE GRATE AND HOT BITUMINOUS DRIVEWAY APRON.
  3. ANY REGRADING REQUIRED TO INSTALL THE RIPRAP DRAINAGE SWALE SHALL BE INCIDENTAL TO THE RIPRAP, UNDERDRAIN, AND LOAM, SEED AND MULCH BID ITEMS.



60  
20  
0  
20  
20

1 inch = 20 ft.

	DATE
	SUBMISSION
	REV
	CONSTRUCTION DRAWING
	12/19/25

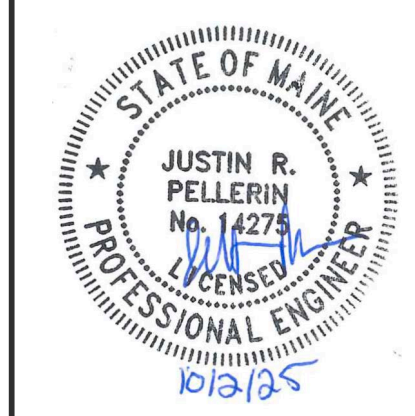
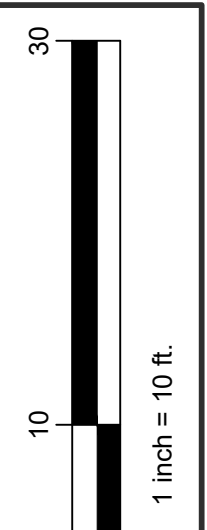
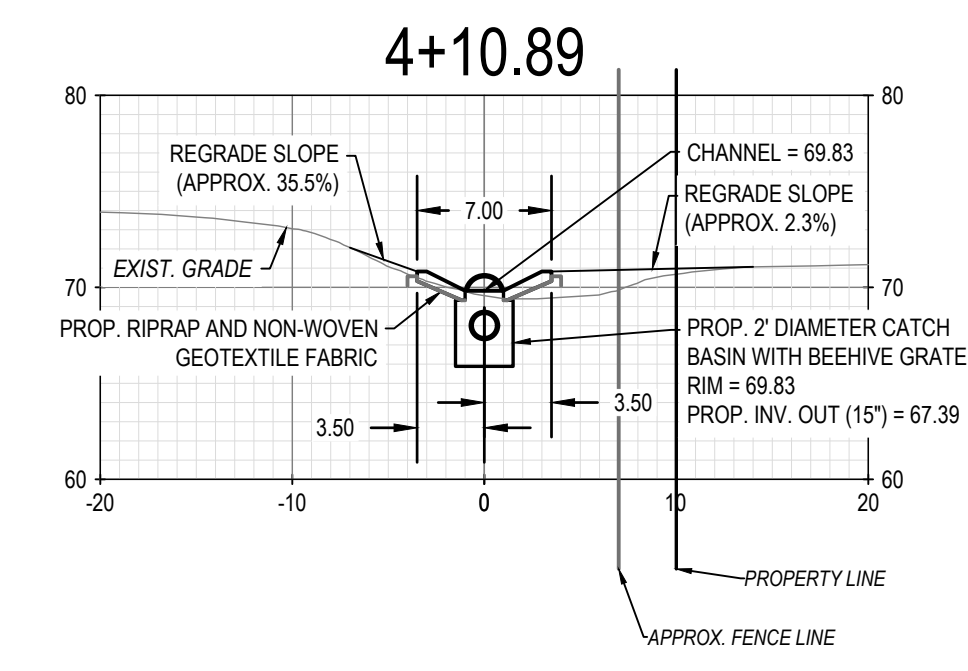
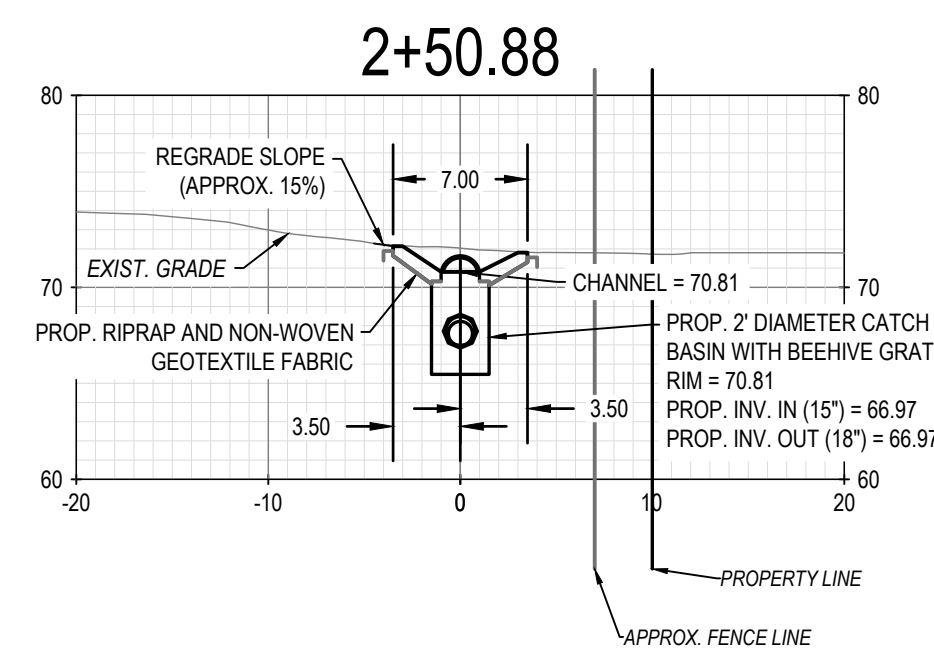
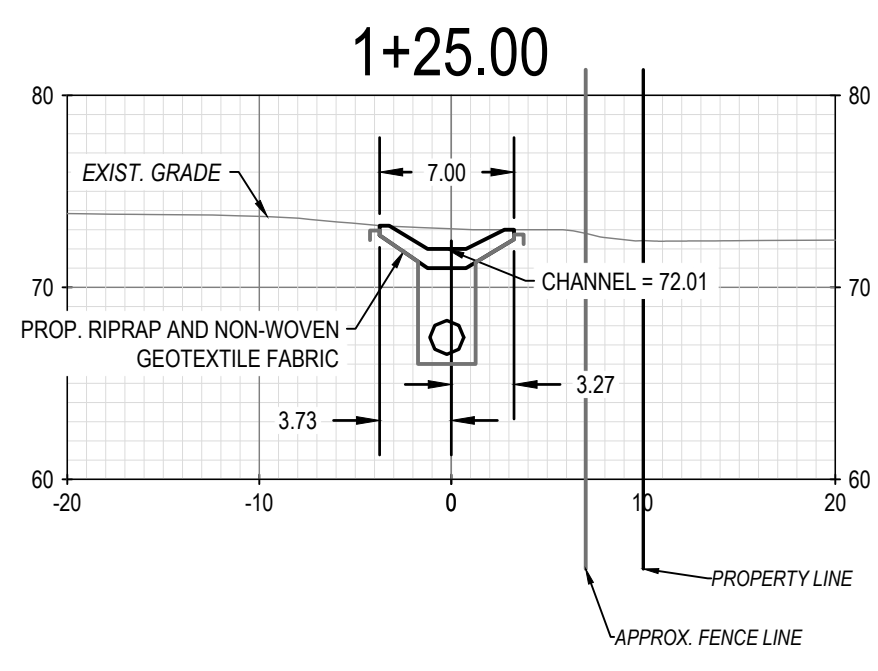
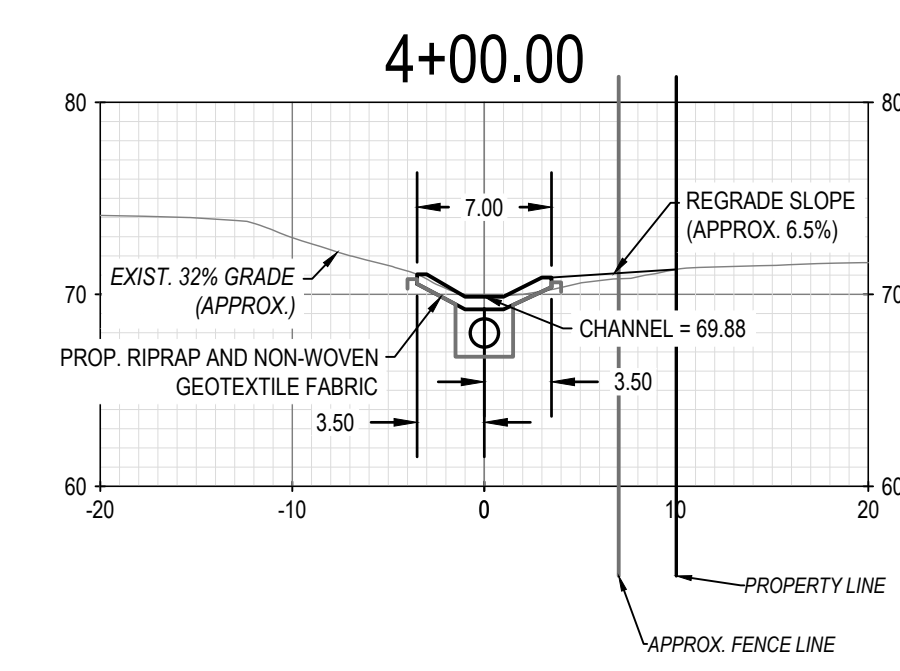
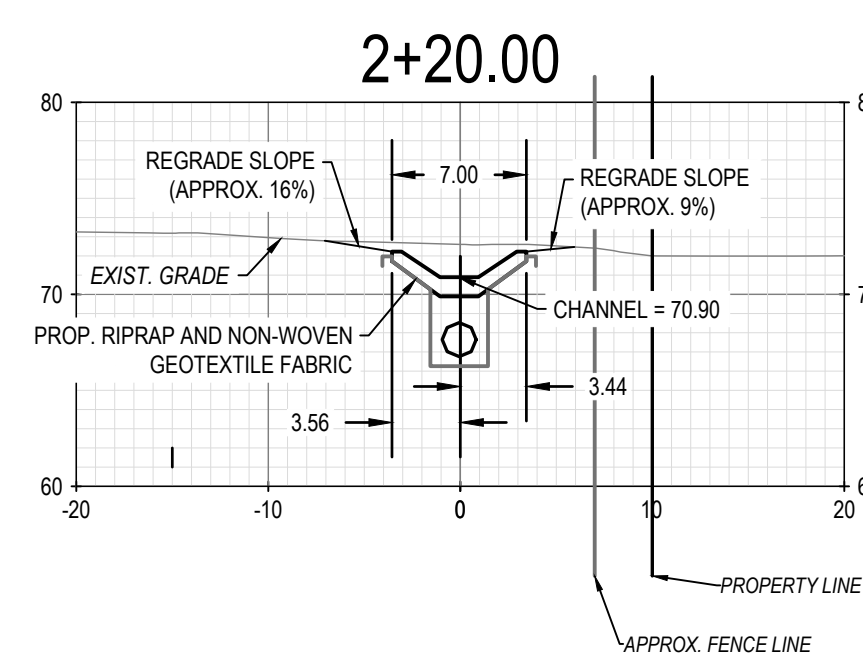
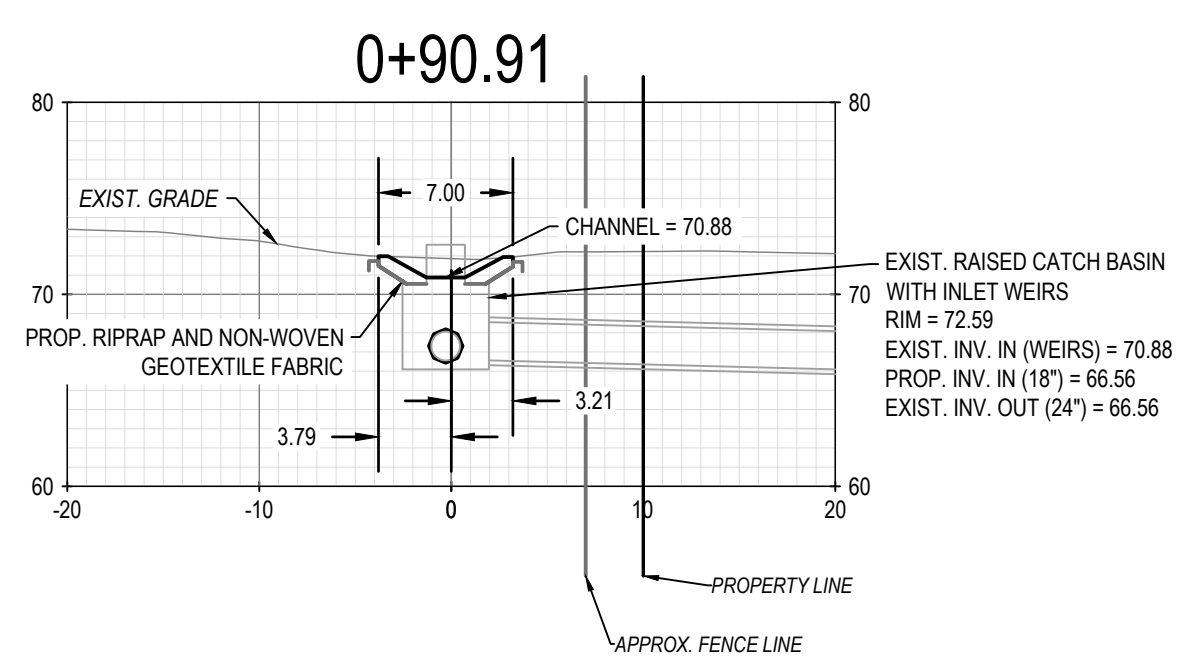
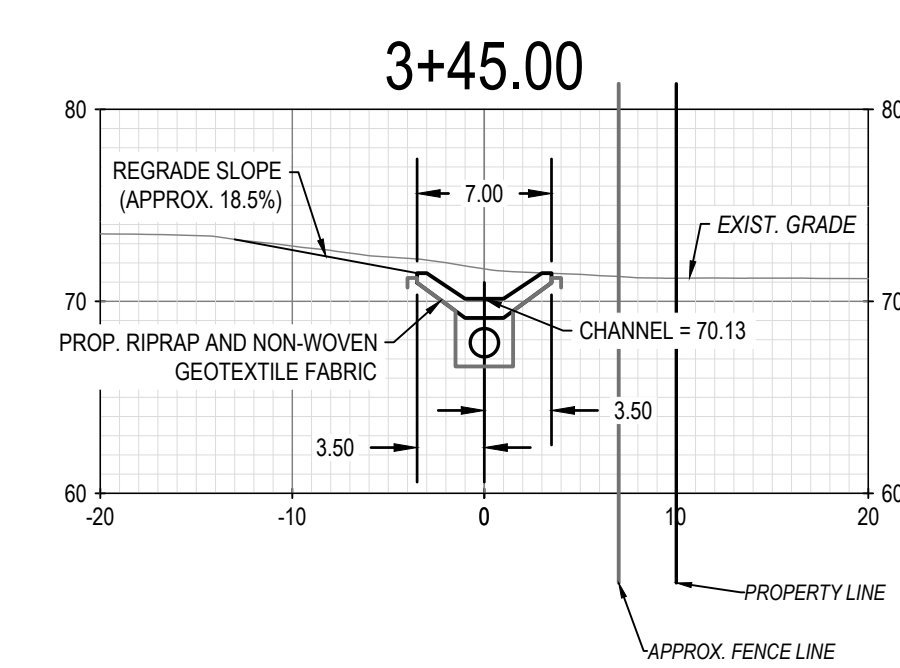
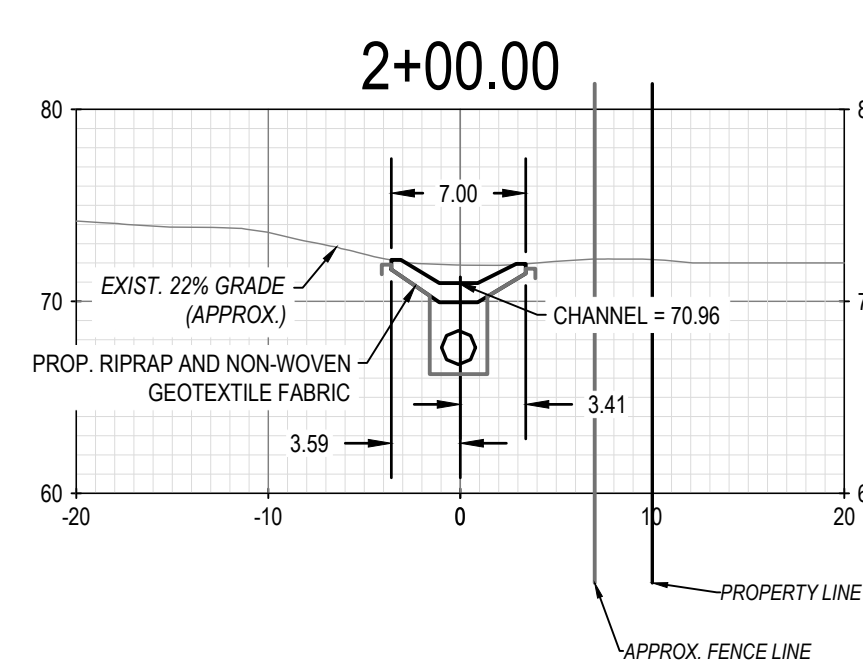
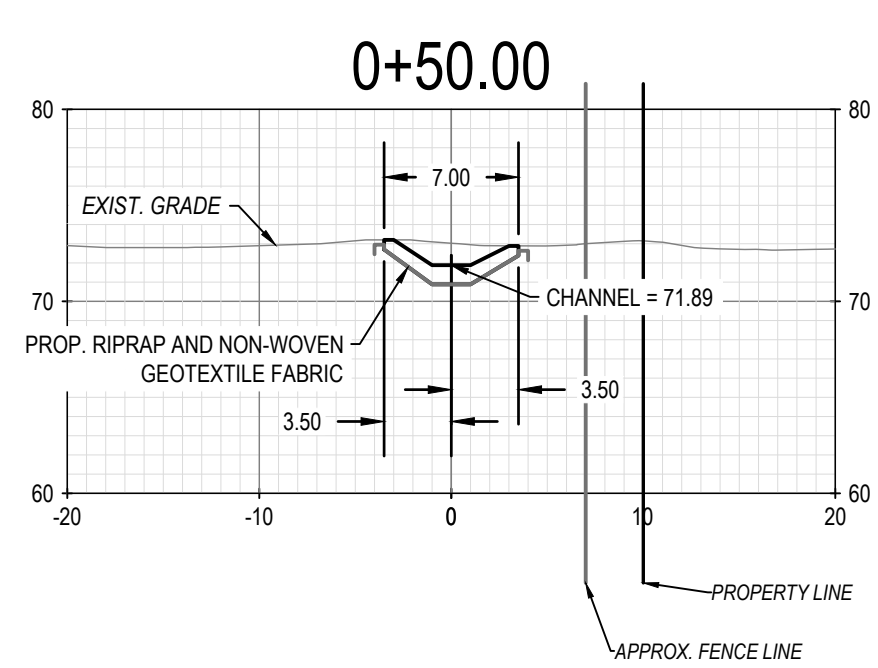
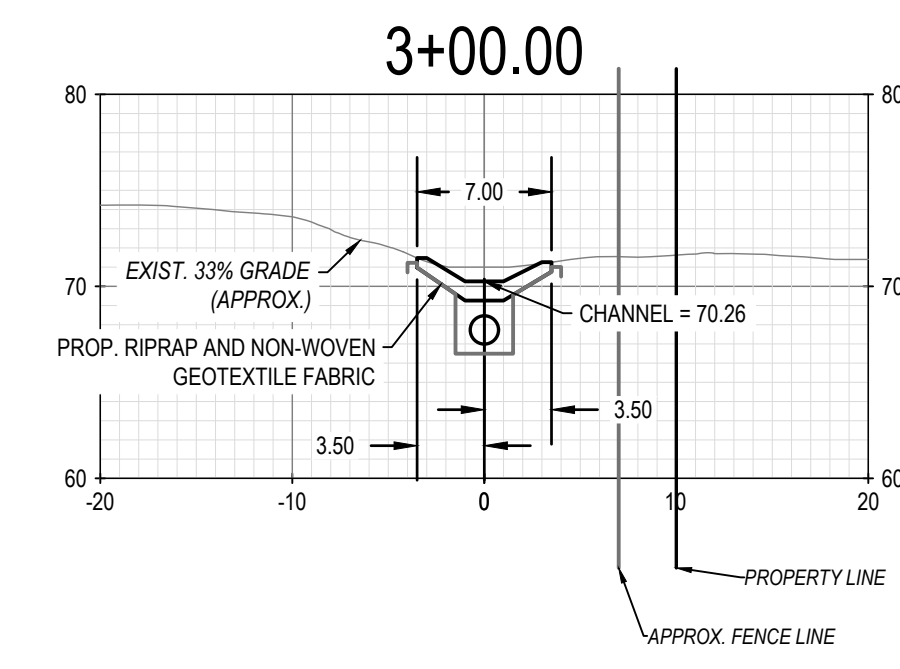
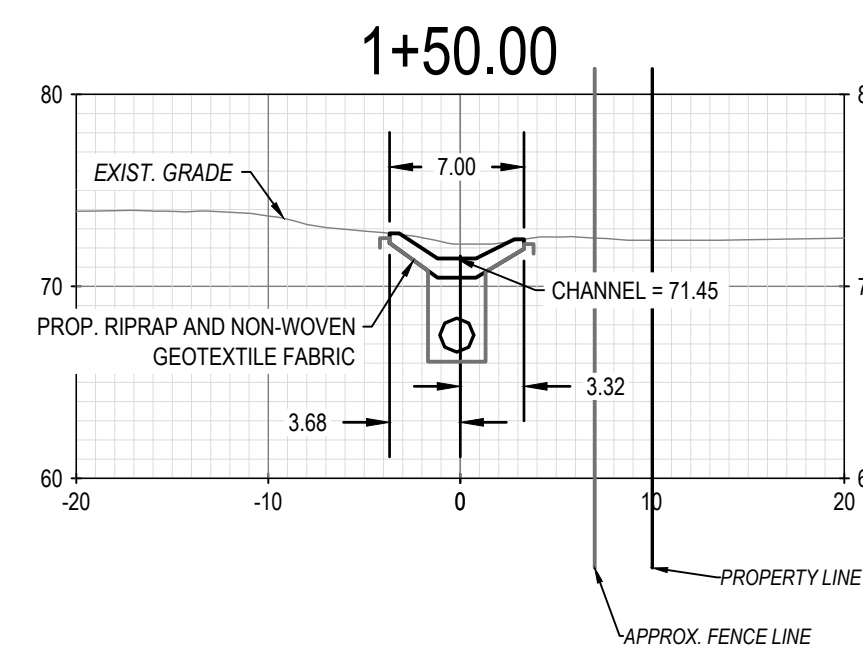
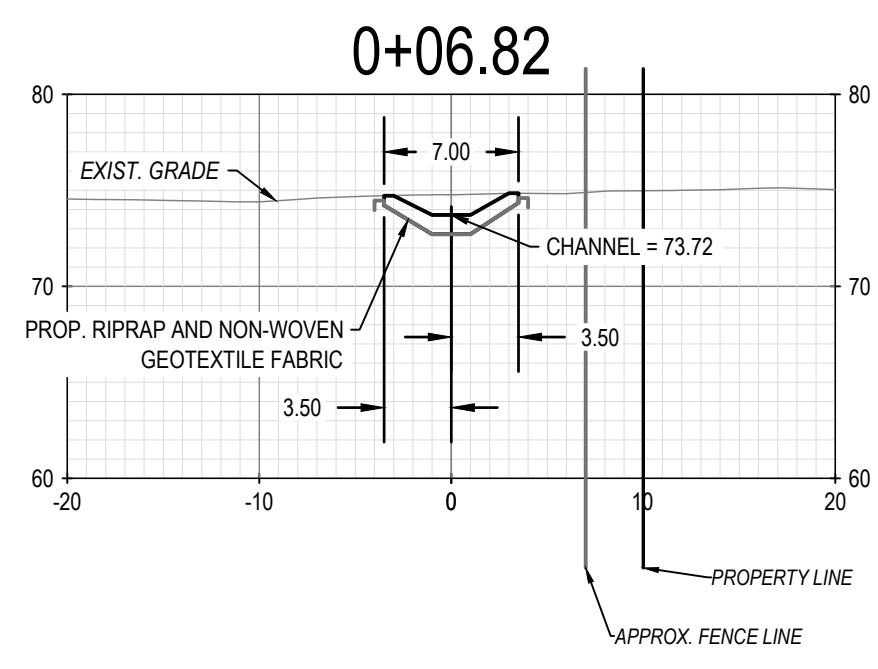
PROJECT NAME: 2025-2028 NEIGHBORHOOD DRAINAGE AND SEWER SYSTEM REPAIR CONTRACT

CITY OF PORTLAND, MAINE  
 DEPARTMENT OF PUBLIC WORKS  
 WATER RESOURCES DIVISION  
 212 CANCO ROAD, SUITE B, PORTLAND, MAINE 04103  
 PHONE (207) 874-6866

DESIGN BY:	RHA
DRAWN BY:	RHA
CHECKED BY:	JRP
SHEET NAME:	LUDLOW ST SWALE IMPROVEMENTS (SW-06)
DATE:	7/22/2025
SHEET NO.:	C-02
Vault #:	01051_003

S.WATER RESOURCES - ENGINEERING/SEWER STORM INVESTIGATION/2024-2026 NEIGHBORHOOD DRAINAGE AND SEWER SYSTEM REPAIR CONTRACT/CA020240701 LUDLOW ST.DWG C-02 7/22/2025

S:WATER RESOURCES - ENGINEERING/SEWERS STORM INVESTIGATION/2024-2026 NEIGHBORHOOD DRAINAGE AND SEWER SYSTEM REPAIR CONTRACT/CA020240701 LUDLOW ST.DWG C-03 7/22/2025



REV	SUBMISSION	DATE

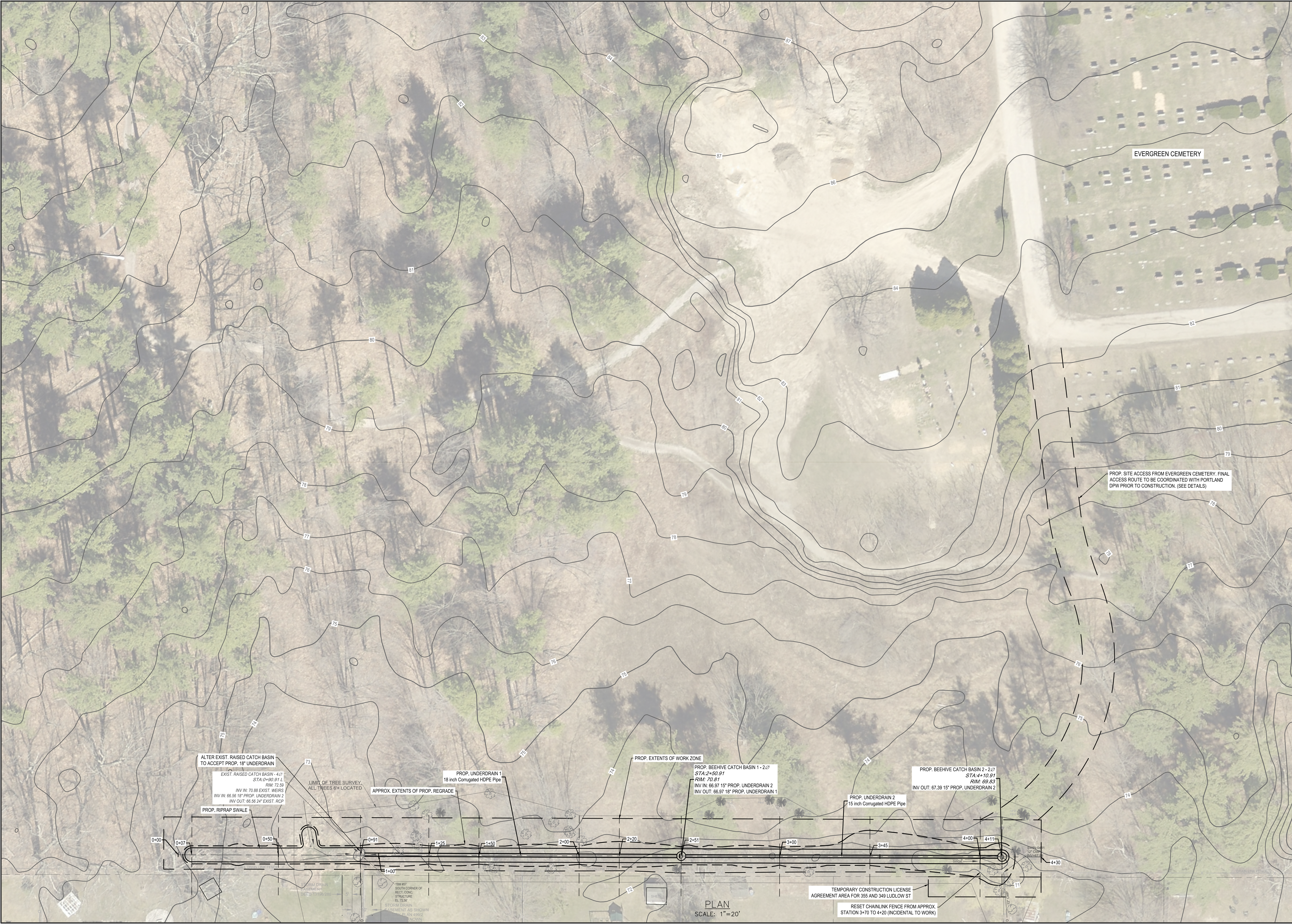
PROJECT NAME:  
**2025-2028 NEIGHBORHOOD DRAINAGE AND SEWER SYSTEM REPAIR CONTRACT**  
**CITY OF PORTLAND, MAINE**  
 DEPARTMENT OF PUBLIC WORKS  
 WATER RESOURCES DIVISION  
 212 CANCO ROAD, SUITE B, PORTLAND, MAINE 04103  
 PHONE (207) 874-8846



DESIGN BY:	RHA
DRAWN BY:	RHA
CHECKED BY:	JRP
SHEET NAME:	LUDLOW ST SWALE IMPROVEMENTS (SW-06)
DATE:	7/22/2025
PAGE:	16 OF 21
SHEET NO.:	C-03
Vault #:	01051_003

LUDLOW ST RIPRAP SWALE SECTIONS  
 HORIZONTAL SCALE: 1"=10'  
 VERTICAL SCALE: 1"=10'

SWATER RESOURCES - ENGINEERING/SEWER STORM INVESTIGATION 2024-2026 NEIGHBORHOOD DRAINAGE AND SEWER SYSTEM REPAIR CONTRACT CAD 20240701 LUDLOW ST DWG C-04 7/22/2025



ALTER EXIST. RAISED CATCH BASIN TO ACCEPT PROP. 18" UNDERDRAIN  
EXIST. RAISED CATCH BASIN - 4'Ø  
STA 0+30.91 L  
RIM: 72.35  
INV IN: 70.88 EXIST. WEIRS  
INV IN: 66.56 18" PROP. UNDERDRAIN 2  
INV OUT: 66.56 24" EXIST. RCP

LIMIT OF TREE SURVEY  
ALL TREES 6" LOCATED

APPROX. EXTENTS OF PROP. REGRADE

PROP. UNDERDRAIN 1  
18 inch Corrugated HDPE Pipe

PROP. EXTENTS OF WORK ZONE

PROP. BEEHIVE CATCH BASIN 1 - 2'Ø  
STA 2+50.91  
RIM: 70.81  
INV IN: 66.97 15" PROP. UNDERDRAIN 2  
INV OUT: 66.97 18" PROP. UNDERDRAIN 1

PROP. UNDERDRAIN 2  
15 inch Corrugated HDPE Pipe

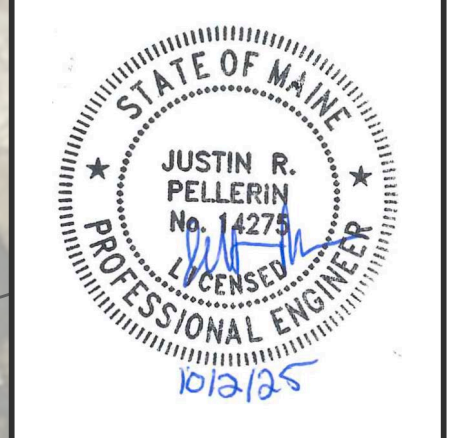
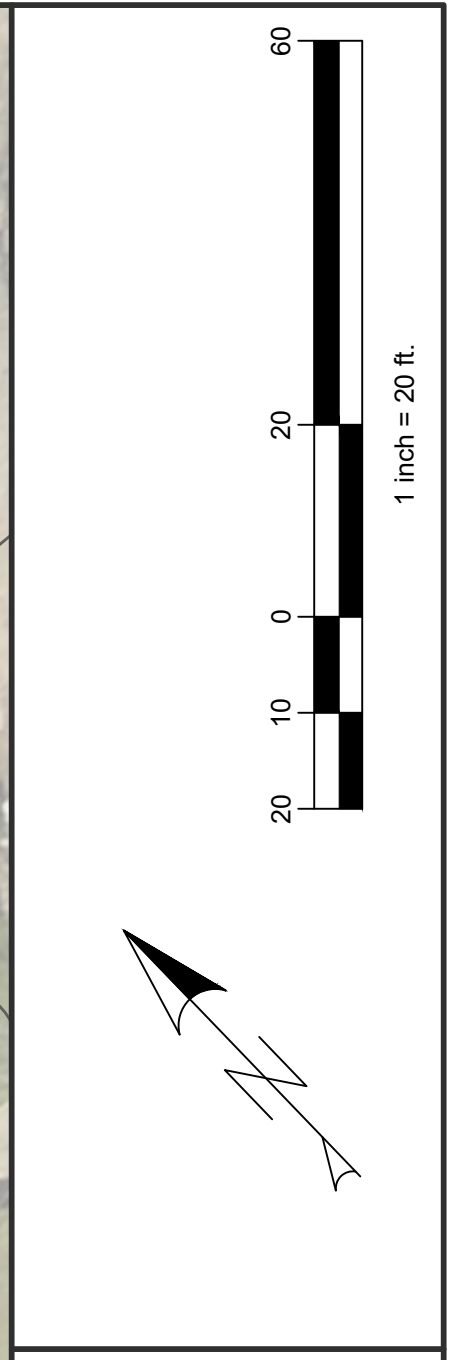
PROP. BEEHIVE CATCH BASIN 2 - 2'Ø  
STA 4+10.91  
RIM: 69.83  
INV OUT: 67.39 15" PROP. UNDERDRAIN 2

PROP. SITE ACCESS FROM EVERGREEN CEMETERY. FINAL ACCESS ROUTE TO BE COORDINATED WITH PORTLAND DPW PRIOR TO CONSTRUCTION. (SEE DETAILS)

PLAN  
SCALE: 1"=20'

TEMPORARY CONSTRUCTION LICENSE  
AGREEMENT AREA FOR 355 AND 349 LUDLOW ST

RESET CHAINLINK FENCE FROM APPROX. STATION 3+70 TO 4+20 (INCIDENTAL TO WORK)



REV	SUBMISSION	DATE

PROJECT NAME:  
**2025-2028 NEIGHBORHOOD DRAINAGE AND SEWER SYSTEM REPAIR CONTRACT**  
**CITY OF PORTLAND, MAINE**  
 DEPARTMENT OF PUBLIC WORKS  
 WATER RESOURCES DIVISION  
 212 CANO ROAD, SUITE B, PORTLAND, MAINE 04103  
 PHONE (207) 874-8866



DESIGN BY: RHA  
 DRAWN BY: RHA  
 CHECKED BY: JRP  
 SHEET NAME:

LUDLOW ST  
 SWALE IMPROVEMENTS  
 (SW-06)

DATE: 7/22/2025  
 PAGE 17 OF 21  
 SHEET NO.: C-04  
 VAULT #: 01051\_003







