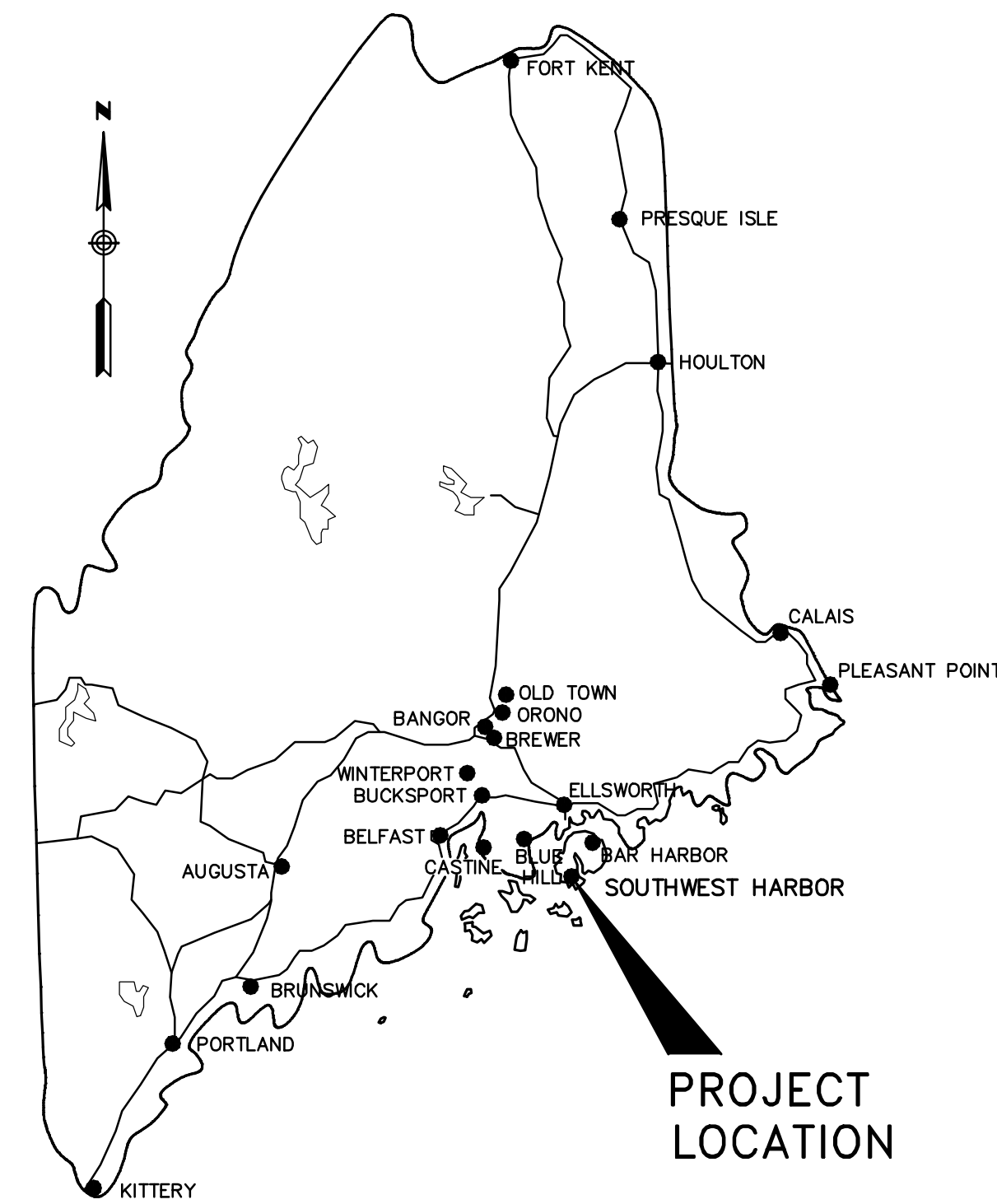


# TOWN OF SOUTHWEST HARBOR, MAINE

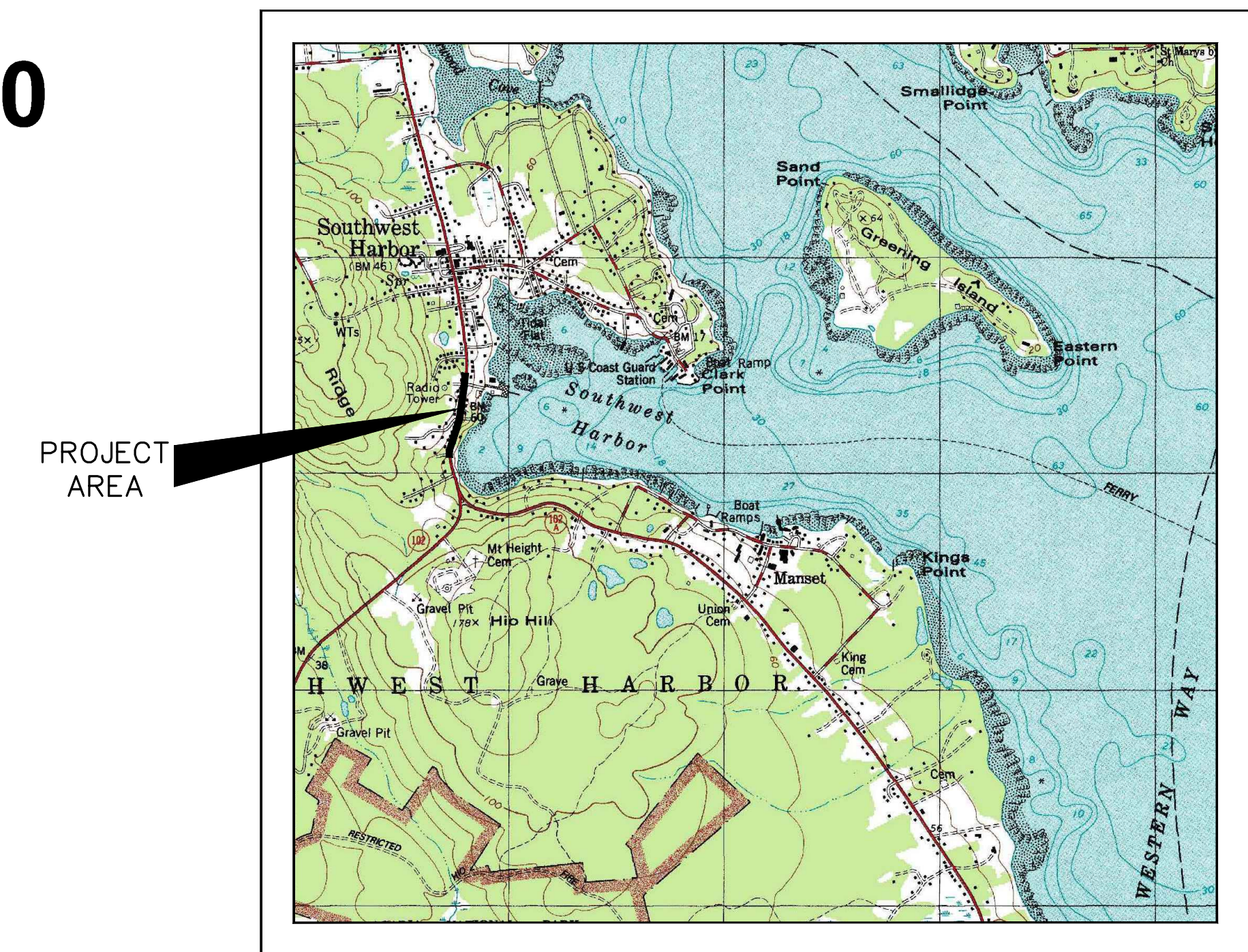
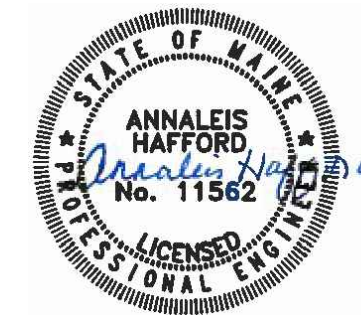
# MAIN STREET SIDEWALK, DRAINAGE, WATER, AND SEWER IMPROVEMENTS

PROJECT NO. 1356  
FEDERAL PROJECT NO. 02220400  
MAINE DOT WIN 022204.00

MAY, 2022



LOCATION MAP



AREA MAP

## OLVER ASSOCIATES INC.

ENVIRONMENTAL ENGINEERS

290 MAIN STREET

WINTERPORT, MAINE

C:\Users\jproctor\OneDrive\Documents\Main Street Sidewalk Drainage Water Sewer Improvements\02220400\02220400.dwg, 5/5/2022 3:42:56 PM, 11

# GENERAL NOTES

- UTILITY LOCATIONS AS SHOWN ARE APPROXIMATE BASED ON AVAILABLE INFORMATION AT TIME OF SURVEY. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATION AND CONFIRMATION OF ALL EXISTING UTILITIES INCLUDING SEWER, DRAINAGE, WATER, ELECTRICAL, TELEPHONE, AND CABLE PIPES AND CONDUITS. IT IS POSSIBLE THAT OTHER ACTIVE AND INACTIVE UTILITIES MAY EXIST IN THE PROJECT AREA. CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING EXCAVATION. CONTRACTOR SHALL PROVIDE VIDEO INSPECTION OF SEWER SYSTEM IN PROJECT AREA TO LOCATE ALL EXISTING SEWER STRUCTURES AND SEWER SERVICES IN PREPARATION FOR SEWER SYSTEM IMPROVEMENTS.
- CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION WITH THE OWNER OF EACH UTILITY TO FIELD LOCATE AND TO MINIMIZE DISRUPTION TO EXISTING UTILITIES. CONTINUOUS SEWER, WATER, AND DRAIN SERVICE MUST BE MAINTAINED BY THE CONTRACTOR AT ALL TIMES DURING CONSTRUCTION.
- BUILDING SEWER AND WATER SERVICE LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR SHALL CONDUCT TEST PITS AND CONDUCT VIDEO SURVEY IN FIELD TO DETERMINE EXACT LOCATIONS AND CONNECTION POINTS.
- LOCATION OF WATER LINES ARE SHOWN IN APPROXIMATE LOCATIONS AS PROVIDED BY SOUTHWEST HARBOR WATER AND SEWER DISTRICT. ANY INDICATED WATER LINE DEPTH IS APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR.
- TEST PITS ARE REQUIRED AT ALL EXISTING UTILITY AND SERVICE CROSSINGS BY NEW WATER, SEWER, AND DRAIN MAIN LINE OR SERVICES.
- TEST PITS ARE REQUIRED AT ALL BURIED PIPING TIE-IN LOCATIONS TO VERIFY LOCATION AND ELEVATION. IN SOME AREAS, TEST PITS ARE REQUIRED IN ADVANCE TO VERIFY LOCATION AND ELEVATION OF EXISTING FACILITIES.
- CONTRACTOR SHALL FIELD VERIFY LOCATION OF ANY UNDERGROUND PUBLIC OR PRIVATE ELECTRICAL AND TELEPHONE UTILITIES WITH DIG-SAFE OR OWNER PRIOR TO EXCAVATION.
- PROPERTY BOUNDARIES AND RIGHT-OF-WAY LIMITS SHOWN ON PLANS ARE APPROXIMATE BASED ON FIELD EVIDENCE OBSERVED, AVAILABLE TAX MAPS AND MAINE DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY INFORMATION AND ARE INCLUDED FOR REFERENCE ONLY. NO LEGAL REPRESENTATION IS INTENDED NOR WAS ANY FORMAL BOUNDARY SURVEY CONDUCTED.
- CONTRACTOR SHALL PROPERLY PROTECT AND AVOID DISTURBING PROPERTY PINS AND MONUMENTS. IF DISTURBED, THE PROPERTY PIN OR MONUMENT SHALL BE RESET AT CONTRACTOR'S EXPENSE BY A REGISTERED LAND SURVEYOR APPROVED BY THE ENGINEER.
- CONTRACTOR SHALL CONTACT OWNERS OF UTILITY POLES ADJACENT TO EXCAVATION AREAS TO ARRANGE POLE SUPPORT DURING EXCAVATION.
- CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT OF ALL PROPOSED WORK. ENGINEER WILL ASSIST ONLY IN PROVIDING REFERENCE POINTS AND ELEVATION DATA FOR INITIAL LAYOUT ONLY. CONTRACTOR SHALL MAINTAIN LAYOUT THROUGHOUT PROJECT.
- CONTRACTOR SHALL EXERCISE APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION IN ACCORDANCE WITH ACCEPTED PRACTICE, APPLICABLE LAWS AND REGULATIONS, AND REQUIREMENTS OF THESE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL CONTROL DUST GENERATED DURING THE PROJECT TO A LEVEL SATISFACTORY TO THE OWNER AND ENGINEER.
- REPAIR ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
- LOAM AND SEED ALL DISTURBED LAWN AREAS WITH 4" LOAM, HYDROSEED, AND MULCH.
- ALL AREAS DISTURBED BY CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION UNLESS OTHERWISE NOTED. COST OF RESTORATION IS INCIDENTAL TO CONTRACT OUTSIDE OF PAY LIMITS.
- ALL WATER MAINS REQUIRE CONCRETE THRUST BLOCKS AT FIRE HYDRANTS AND CHANGES IN DIRECTION. THRUST BLOCKS ARE NOT REQUIRED FOR WATER SERVICES.
- COORDINATE WITH SOUTHWEST HARBOR WATER AND SEWER DISTRICT FOR CONNECTION TO EXISTING WATER MAIN. ALL WATER LINES MUST BE TESTED, DISINFECTED AND ACCEPTED BY THE WATER AND SEWER DISTRICT PRIOR TO BEING PLACED IN SERVICE.
- ALL DRAINS AND DRAINAGE STRUCTURES SHALL BE PROPERLY FLUSHED AND CLEANED BY CONTRACTOR WHENEVER CONSTRUCTION DEBRIS ENTERS OPEN PIPE WORK AND AGAIN AT COMPLETION OF PROJECT. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PREVENT CONSTRUCTION MATERIALS AND DEBRIS FROM ENTERING OPEN PIPE LINES AND SHALL BE RESPONSIBLE FOR THE COST OF ANY REPAIRS FROM DAMAGE THAT RESULTS FROM SUCH DEBRIS.
- PRECAST CONCRETE STRUCTURE RIM ELEVATIONS ARE PROVIDED ON PLAN SHEETS TO ESTABLISH GENERAL HEIGHT OF NEW STRUCTURES FOR BIDDING PURPOSES. EXACT FINAL RIM ELEVATIONS SHALL BE ESTABLISHED IN FIELD SUCH THAT TOP OF RIM IS 0.02' BELOW FINAL PAVEMENT. ALL NEW PRECAST CONCRETE STRUCTURE RIMS SHALL BE SET TO FINAL GRADE AFTER APPLICATION OF PAVEMENT HMA AND PRIOR TO PLACEMENT OF FINISH LAYER OF SURFACE PAVEMENT.
- ALL SEWER LINES, DRAINS, WATER MAINS, AND SERVICES WITH LESS THAN FIVE FEET OF COVER SHALL BE INSULATED WITH TWO INCHES OF RIGID INSULATION AT FULL TRENCH WIDTH.
- ALL DISTURBED ASBESTOS CEMENT (AC) PIPING SHALL BE REMOVED FROM TRENCH AND SEGREGATED FROM GENERAL CONSTRUCTION FILL. DISPOSAL OF ALL AC PIPING IS REGULATED UNDER THE MAINE DEP CHAPTER 401 RULES. DISPOSAL OF ALL OTHER MATERIAL SHALL COMPLY WITH DEP DISPOSAL REQUIREMENTS.
- ALL TRENCH ROUTES IN EXISTING PAVED AREAS SHALL BE SAW CUT PRIOR TO DISTURBANCE OF PAVEMENT AND AGAIN BEFORE FINAL PAVING. PROVIDE OVERLAPPING GROUND JOINT FOR SMOOTH TRANSITION AT THESE LOCATIONS.
- RESET OR REPLACE ALL EXISTING WALKWAYS, STEPS, FENCES, PLANTINGS, AND SITE FEATURES AS SOON AS IS PRACTICAL.
- ALL REGULATORY SIGNS MUST BE MAINTAINED IN PLACE AT ALL TIMES EVEN IF WITH TEMPORARY SUPPORT.
- CONTRACTOR SHALL HAVE THE SOLE RESPONSIBILITY TO ENSURE THAT ALL WORK MEETS ALL OSHA AND OTHER APPLICABLE CODE, HEALTH, AND SAFETY REQUIREMENTS.
- THE CONTRACTOR'S SCHEDULE SHALL ACCOMMODATE THE FOLLOWING WORK SEASONS:  
  
THIRD WEEK OF SEPTEMBER – WINTER SHUT-DOWN AND  
MARCH – JUNE 30TH

NO WORK WILL BE ALLOWED IN THE AREA BETWEEN JUNE 30TH AND THE THIRD WEEK OF SEPTEMBER.

28) FLOWABLE FILL IS REQUIRED AT ALL CROSSINGS OF EXISTING CAST IRON WATER MAIN OR ANY LOCATION WHERE EXISTING WATER MAIN IS UNDERMINED DURING EXCAVATION.

- DESIGN INTENT IS TO UPGRADE EXISTING UTILITIES UNDER THE PROPOSED SIDEWALK WORK AREA. COORDINATE WITH UTILITY IMPROVEMENT SHEETS.
- ALL GARDENS, PLANTINGS, AND LANDSCAPE FEATURES NOT SPECIFICALLY INDICATED TO BE REMOVED AND DISCARDED SHALL BE REMOVED AND REPLANTED OR RESET BEHIND SIDEWALK IN GENERAL AREA WHERE THEY EXIST NOW. COORDINATE ALL REMOVAL AND REPLANTING OR RESET WITH PROPERTY OWNER AND ENGINEER PRIOR TO STARTING THE WORK.
- CONTRACTOR SHALL CONDUCT LINE DRILLING, SAW CUTTING OR OTHER APPROPRIATE METHOD TO MINIMIZE LEDGE PROFILE AS INDICATED ON CROSS-SECTIONS AND TO LIMIT IMPACT OF LEDGE REMOVAL ON ADJACENT STRUCTURES.
- DUE TO UPCOMING CHANGES IN THE FEDERAL REGULATIONS REGARDING THE LONG-EARED BAT, THE CONTRACTOR SHALL BE REQUIRED TO COMPLETE ALL TREE CLEARING ACTIVITIES AS REQUIRED IN THIS CONTRACT PRIOR TO NOVEMBER 1, 2022.

# LEGEND

<ul style="list-style-type: none"> <li>EXISTING SEWER MANHOLE</li> <li>PROPOSED SEWER MANHOLE</li> <li>EXISTING SEWER LINE</li> <li>EXISTING SEWER SERVICE</li> <li>PROPOSED SEWER LINE</li> <li>PROPOSED SEWER SERVICE</li> <li>EXISTING COMBINED SEWER</li> <li>EXISTING FORCE MAIN</li> <li>PROPOSED FORCE MAIN</li> <li>EXISTING GAS LINE</li> <li>EXISTING WATER LINE</li> <li>EXISTING WATER SERVICE</li> <li>PROPOSED WATER LINE</li> <li>PROPOSED WATER SERVICE</li> <li>EXISTING STORM DRAIN</li> <li>PROPOSED STORM DRAIN</li> <li>PROPOSED STORM DRAIN SERVICE</li> <li>EXISTING UNDERDRAIN</li> <li>PROPOSED UNDERDRAIN</li> <li>PROPOSED AIR LINE</li> <li>PROPOSED VENT</li> <li>EXISTING CULVERT</li> <li>PROPOSED CULVERT</li> <li>GRADING CUT LINE</li> <li>GRADING FILL LINE</li> <li>GRADING MATCH LINE</li> <li>CLEARING LIMITS LINE</li> <li>EXISTING CATCH BASINS</li> <li>PROPOSED CATCH BASIN</li> <li>EXISTING WATER WEDGE VALVE</li> <li>EXISTING WATER CURB STOP</li> <li>EXISTING HOSE BIBB</li> <li>PROPOSED WATER WEDGE VALVE OR CURB STOP</li> <li>EXISTING HYDRANT</li> <li>PROPOSED HYDRANT</li> <li>PROPOSED WELL</li> <li>CAPPED LINE</li> <li>EXISTING TELEPHONE MANHOLE/THERMOSTAT</li> <li>EXISTING CABLE TV MANHOLE</li> <li>EXISTING ELECTRICAL MANHOLE</li> </ul>	<ul style="list-style-type: none"> <li>EXISTING BURIED TELEPHONE CABLE</li> <li>EXISTING BURIED TV CABLE</li> <li>EXISTING BURIED ELECTRIC CABLE</li> <li>EXISTING OVERHEAD ELECTRIC CABLE</li> <li>EXISTING OVERHEAD TELEPHONE CABLE</li> <li>UTILITY POLE</li> <li>UTILITY POLE ANCHOR</li> <li>UTILITY PEDESTAL</li> <li>BURIED CABLE JUNCTION BOX</li> <li>TRANSFORMER ON CONC. PAD</li> <li>STREET LIGHT</li> <li>PEDESTRIAN SIGNAL LIGHT</li> <li>DECORATIVE STREET LIGHT</li> <li>TRAFFIC SIGNAL POLE</li> <li>RAILROAD CROSSING SIGN/SIGNAL</li> <li>SATELLITE DISH</li> <li>RIP-RAP</li> <li>STONE WALL</li> <li>CONCRETE OR GRANITE WALL</li> <li>DRAINAGE DITCH OR SWALE</li> <li>STREAM</li> <li>EXISTING CONTOUR</li> <li>PROPOSED CONTOUR</li> <li>EXISTING SPOT ELEVATION</li> <li>PROPOSED SPOT ELEVATION</li> <li>EXISTING SOFTWOOD TREE</li> <li>EXISTING HARDWOOD TREE</li> <li>EXISTING TREE CLUSTER</li> <li>EXISTING BUSH</li> <li>BRUSH LINE</li> <li>TREE LINE</li> </ul>	<ul style="list-style-type: none"> <li>ELECTRIC METER</li> <li>RECEPTACLE</li> <li>LIGHT SWITCH</li> <li>SIDEWALK RAMP</li> <li>EXISTING CURB (TYPE)</li> <li>PROPOSED CURB</li> <li>SURVEY CONTROL POINT</li> <li>PROPERTY IRON PIN</li> <li>RIGHT-OF-WAY MONUMENT</li> <li>RIGHT-OF-WAY LINE</li> <li>LOT LINE</li> <li>EASEMENT</li> <li>TEST PIT REQUIRED</li> <li>EXISTING MAILBOX</li> <li>PROPANE TANK</li> <li>EXISTING SIGNS</li> <li>PROPOSED SIGN</li> <li>EXISTING BOLLARD/POST</li> <li>PROPOSED BOLLARD</li> <li>EXISTING FLAGPOLE</li> <li>EXISTING ANCHOR</li> <li>FENCE</li> <li>GUARD RAIL</li> <li>HANDICAPPED SYMBOL</li> <li>LEDGE OUTCROP</li> <li>LEDGE ENCOUNTERED</li> <li>NO REFUSAL</li> <li>MONITORING WELL</li> <li>TEST PIT, BORING, OR PROBE</li> <li>WETLANDS AREA</li> </ul>
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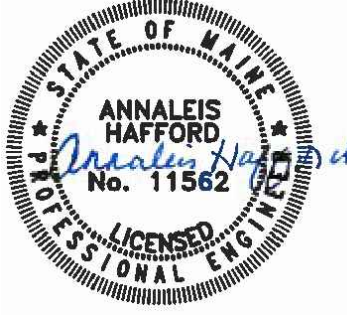
# INDEX

- ### GENERAL
- G-0 COVER SHEET
  - G-1 GENERAL NOTES & INDEX
- ### CIVIL
- C-1 SIDEWALK PLAN & PROFILE
  - C-2 SIDEWALK PLAN & PROFILE
  - C-3 SIDEWALK PLAN & PROFILE
  - C-4 SIDEWALK CROSS-SECTIONS
  - C-5 SIDEWALK CROSS-SECTIONS
  - C-6 SIDEWALK CROSS-SECTIONS
  - C-7 SIDEWALK CROSS-SECTIONS
  - C-8 SIDEWALK CROSS-SECTIONS
  - C-9 SIDEWALK CROSS-SECTIONS
  - C-10 SIDEWALK AND WOOD STREET CROSS-SECTIONS
  - C-11 DRAINAGE IMPROVEMENTS PLAN & PROFILE
  - C-12 DRAINAGE IMPROVEMENTS PLAN & PROFILE
  - C-13 DRAINAGE IMPROVEMENTS PLAN & PROFILE
  - C-14 WATER IMPROVEMENTS PLAN & PROFILE
  - C-15 WATER IMPROVEMENTS PLAN & PROFILE
  - C-16 WATER IMPROVEMENTS PLAN & PROFILE
  - C-17 SEWER IMPROVEMENTS PLAN & PROFILE
  - C-18 SEWER IMPROVEMENTS PLAN & PROFILE
  - C-19 SEWER IMPROVEMENTS PLAN & PROFILE
  - C-20 CIVIL DETAILS
  - C-21 CIVIL DETAILS
  - C-22 CIVIL DETAILS
  - C-23 CIVIL DETAILS
  - C-24 CIVIL DETAILS
  - C-25 RETAINING WALL PROFILES
  - 28 SOUTHWEST HARBOR RIGHT OF WAY MAP
  - 29 SOUTHWEST HARBOR RIGHT OF WAY MAP
  - 30 SOUTHWEST HARBOR RIGHT OF WAY MAP

# ABBREVIATIONS\*

<ul style="list-style-type: none"> <li>ANCHOR BOLTS</li> <li>ASBESTOS CEMENT</li> <li>ABOVE FINISHED FLOOR</li> <li>AGGR</li> <li>ALTERNATE</li> <li>ALUMINUM</li> <li>AMERICAN NATIONAL STANDARDS INSTITUTE</li> <li>AMERICAN PLYWOOD ASSOCIATION</li> <li>APPROXIMATELY</li> <li>AVERAGE</li> <li>AIR RELIEF VALVE</li> <li>BANGOR HYDRO ELECTRIC</li> <li>BITUMINOUS</li> <li>BASELINE</li> <li>BUILDING</li> <li>BOTTOM OF FOOTING</li> <li>BOTTOM</li> <li>BACK VENT</li> <li>CHANNEL</li> <li>COMPRESSED AIR</li> <li>CENTERLINE</li> <li>CATCH BASIN</li> <li>CUBIC FEET PER MINUTE</li> <li>CAST IRON</li> <li>CONTROL JOINT</li> <li>CLEARING LIMITS OR CENTERLINE</li> <li>CEILING</li> <li>CLEAR</li> <li>CHLORINATION</li> <li>CENTRAL MAINE POWER</li> <li>CORRUGATED METAL PIPE</li> <li>CONCRETE MASONRY UNIT</li> <li>CLEANOUT</li> <li>COLUMN</li> <li>CONC</li> <li>CONNECTION</li> <li>CONSTRUCTION</li> <li>CONTINUOUS</li> <li>CORRUGATED POLYETHYLENE PIPE</li> <li>COMBINED SEWER/CARBON STEEL</li> <li>COPPER TUBE SIZE</li> <li>COPPER</li> <li>CULVERT</li> <li>DRAIN OR DIAMETER</li> <li>DIRECT BURIAL CABLE</li> <li>DEPT OF ENVIRONMENTAL PROTECTION</li> <li>DUCTILE IRON</li> <li>DIAMETER</li> <li>DIAGONAL</li> <li>DIMENSIONS</li> <li>GERMAN INSTITUTE FOR STANDARDIZATION</li> <li>DOMESTIC COLD WATER</li> <li>DOMESTIC HOT WATER</li> <li>DOWN</li> <li>DRIVEWAY</li> <li>DRAIN</li> <li>DOMESTIC WATER OR DRIVEWAY</li> <li>DRAIN, WASTE, AND VENT</li> <li>MODULUS OF ELASTICITY OR ELECTRIC</li> <li>EACH</li> <li>EACH END</li> <li>EACH FACE</li> <li>EFFLUENT</li> <li>EXTREME HIGH WATER</li> <li>EXPANSION JOINT</li> <li>ELEVATION</li> <li>ELECTRICAL CONDUIT</li> <li>EXTREME LOW WATER</li> <li>EASTERN MAINE ELECTRICAL CO-OP INC.</li> <li>ELECTRIC MANHOLE</li> <li>EQUIPMENT</li> <li>ESTIMATED</li> <li>EACH WAY</li> <li>EXISTING</li> <li>EXPANSION</li> <li>EXTERIOR</li> <li>EXTENSION</li> </ul>	<ul style="list-style-type: none"> <li>BENDING STRESS</li> <li>COMPRESSIVE STRESS</li> <li>TENSILE STRESS</li> <li>FIRE COAT</li> <li>FLOOR CLEANOUT</li> <li>FLOW CONTROL STRUCTURE</li> <li>FLOOR DRAIN</li> <li>FOUNDATION</li> <li>FIRE EXTINGUISHER</li> <li>FINISH FLOOR</li> <li>FINISHED</li> <li>FINISH GRADE</li> <li>FEMALE IRON PIPE</li> <li>FLANGED</li> <li>FLOOR</li> <li>FLOORING</li> <li>FORCE MAIN</li> <li>FACE OF STUD</li> <li>FIRE RESISTANT</li> <li>FIBERGLASS REINFORCED PLASTIC</li> <li>FEET</li> <li>GAS LINE</li> <li>GAUGE</li> <li>GALLON</li> <li>GALVANIZED</li> <li>GARDEN</li> <li>GLASS LINED</li> <li>GALLONS PER DAY</li> <li>GALLONS PER HOUR</li> <li>GALLONS PER MINUTE</li> <li>GUARDRAIL</li> <li>GRANITE</li> <li>GRAVEL</li> <li>GROUND</li> <li>GYPSPUM WALLBOARD</li> <li>HEIGHT</li> <li>HOSE BIBB</li> <li>HOSE CLEANOUT</li> <li>HARDWARE</li> <li>HOLLOW METAL</li> <li>HORIZONTAL</li> <li>HIGH POINT</li> <li>HORSEPOWER</li> <li>BEGIN HORIZONTAL CURVE</li> <li>HORIZONTAL CURVE TANGENT INTERSECTION</li> <li>END HORIZONTAL CURVE</li> <li>HEIGHT</li> <li>HYDRANT</li> <li>HERTZ</li> <li>INSIDE DIAMETER</li> <li>ISOLATION JOINT</li> <li>INCHES</li> <li>INFLUENT</li> <li>INSULATION</li> <li>INTERIOR</li> <li>INVERT</li> <li>INPUT/OUTPUT</li> <li>IRON PIPE</li> <li>JANITOR SINK</li> <li>JUNCTION BOX</li> <li>KILN DRIED</li> <li>LATERAL</li> <li>LAVATORY</li> <li>LAGOON EFFLUENT</li> <li>LINEAR FEET</li> <li>LONG OR LARGE</li> <li>LEFT OR LENGTH</li> <li>LOCKERS</li> <li>LONG LEG HORIZONTAL</li> <li>LONG LEG VERTICAL</li> <li>LOCATION</li> <li>LOW POINT OR LIQUID PROPANE</li> <li>LONG RADIUS</li> <li>LEFT</li> </ul>	<ul style="list-style-type: none"> <li>MANUFACTURER</li> <li>MATERIAL</li> <li>MACHINE BOLTS</li> <li>MAXIMUM</li> <li>MC</li> <li>MCC</li> <li>MDOT</li> <li>MECH</li> <li>MANUFACTURER</li> <li>MANHOLE</li> <li>MEAN HIGH WATER</li> <li>1/1000 INCH</li> <li>MINIMUM</li> <li>MECHANICAL JOINT</li> <li>MIXED LIQUOR SUSPENDED SOLIDS</li> <li>MEAN LOW WATER</li> <li>MILLIMETER</li> <li>MAINE MARITIME ACADEMY</li> <li>MASONRY OPENING</li> <li>MONUMENT</li> <li>MAINE PUBLIC SERVICE</li> <li>MEAN RIVER LEVEL</li> <li>MOISTURE SENSOR</li> <li>MEAN SEA LEVEL</li> <li>METAL</li> <li>MONITORING WELL</li> <li>NOW/FORMERLY</li> <li>NUMBER</li> <li>NATIONAL PARK SERVICE</li> <li>NO REFUSAL</li> <li>NR</li> <li>NATIONAL RESOURCES PROTECTION ACT</li> <li>GRANITE</li> <li>NOT TO SCALE</li> <li>NEW ENGLAND TELEPHONE (BELL ATLANTIC)</li> <li>ON CENTER</li> <li>OUTSIDE DIAMETER</li> <li>OVERHEAD</li> <li>OPERATOR</li> <li>ORANGEBURG PIPE</li> <li>POLYETHYLENE OR PLAIN END</li> <li>PENETRATION</li> <li>PERFORATED</li> <li>CROSS-LINKED POLYETHYLENE</li> <li>PURGE DIFFUSER</li> <li>PROPERTY IRON</li> <li>PLATE OR PROPERTY LINE</li> <li>PLYWOOD</li> <li>POLYETHYLENE PLASTIC</li> <li>PUBLICLY OWNED TREATMENT WORKS</li> <li>PRIMARY EFFLUENT</li> <li>PROPOSED</li> <li>POUNDS PER SQUARE FOOT</li> <li>POUNDS PER SQUARE INCH</li> <li>PRESSURE TREATED</li> <li>PAINTED</li> <li>POLYVINYL CHLORIDE</li> <li>PLANT WATER</li> <li>PEAK FLOW</li> <li>RADIUS OR RIGHT</li> <li>RADIUS</li> <li>RANGE</li> <li>RAS</li> <li>RETURN ACTIVATED SLUDGE</li> <li>REINFORCED CONCRETE ELLIPTICAL PIPE</li> <li>REINFORCED CONCRETE PIPE</li> <li>REINFORCED OR REINFORCING BAR</li> <li>REDUCING</li> <li>REFRIGERATOR</li> <li>REQUIRED</li> <li>RESILIENT</li> <li>RETAINING WALL</li> <li>RIGID GALVANIZED STEEL</li> <li>ROUGH OPENING</li> <li>REVOLUTIONS/MINUTE</li> <li>RAW PRIMARY SLUDGE</li> <li>RIGHT</li> <li>RIGHT OF WAY</li> </ul>	<ul style="list-style-type: none"> <li>SLOPE OR SEWER</li> <li>SANITARY</li> <li>SCHEDULE</li> <li>SCM</li> <li>SCP</li> <li>SURVEY CONTROL POINT</li> <li>SCREENINGS</li> <li>STANDARD DIMENSION RATIOS</li> <li>SECTION</li> <li>SQUARE FEET</li> <li>SERV</li> <li>SHT</li> <li>SHD</li> <li>ROAD SHOULDER</li> <li>SI</li> <li>SICPE</li> <li>POLYETHYLENE</li> <li>SLUICE GATE</li> <li>SLG</li> <li>SPECIAL</li> <li>SPEC'S</li> <li>SPECIFICATIONS</li> <li>SUMP PUMP</li> <li>SQUARE</li> <li>SR</li> <li>SHORT RADIUS</li> <li>SWR</li> <li>SHOWER</li> <li>SS</li> <li>STAINLESS STEEL</li> <li>STA</li> <li>STD</li> <li>STANDARD</li> <li>STL</li> <li>STEEL</li> <li>SUSP</li> <li>SUSPENDED</li> <li>SIDEWALK OR SEAWATER</li> <li>TELEPHONE OR THICKNESS</li> <li>TOP AND BOTTOM</li> <li>T &amp; B</li> <li>TONGUE AND GROOVE</li> <li>TEMPORARY BENCH MARK</li> <li>TOH</li> <li>TOTAL DYNAMIC HEAD</li> <li>TEFC</li> <li>FULLY ENCLOSED MOTOR</li> <li>THR/HOLD</li> <li>THRESHOLD</li> <li>TOP OF PLATE</li> <li>TYP</li> <li>UNDERGROUND</li> <li>URN</li> <li>UNDERGROUND STORAGE TANK</li> <li>V</li> <li>VARIES</li> <li>VAPOR BARRIER OR VACUUM BREAKER</li> <li>VC</li> <li>VITRIFIED CLAY</li> <li>VERT</li> <li>VERTICAL</li> <li>VARIABLE FREQUENCY DRIVE</li> <li>BEGIN VERTICAL CURVE</li> <li>VERTICAL CURVE TANGENT INTERSECTION</li> <li>VFT</li> <li>END VERTICAL CURVE</li> <li>VTR</li> <li>VENT THROUGH ROOF</li> <li>WATER OR WIDTH</li> <li>WITH</li> <li>WASTE ACTIVATED SLUDGE</li> <li>WAS</li> <li>WATER CLOSET</li> <li>WC</li> <li>WALL CLEANOUT</li> <li>WD</li> <li>WOOD</li> <li>WF</li> <li>WIDE FLANGE</li> <li>WH</li> <li>WATER HEATER</li> <li>WLD</li> <li>WELDED</li> <li>WR</li> <li>WATER RESISTANT</li> <li>WATER SURFACE</li> <li>WEATHER STRIPPING</li> <li>WW</li> <li>WET WELL</li> <li>WWF</li> <li>WELDED WIRE FABRIC</li> <li>WWM</li> <li>WELDED WIRE MESH</li> </ul>
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\* THESE ARE GENERAL ABBREVIATIONS. NOT ALL APPEAR ON THESE DRAWINGS.



**OLVER ASSOCIATES INC.**  
ENVIRONMENTAL ENGINEERS  
280 MAIN STREET WINTERPORT, MAINE

MAY, 2022	MISC. REVISIONS PER MDOT COMMENTS
DATE	ADDITION OR REVISION

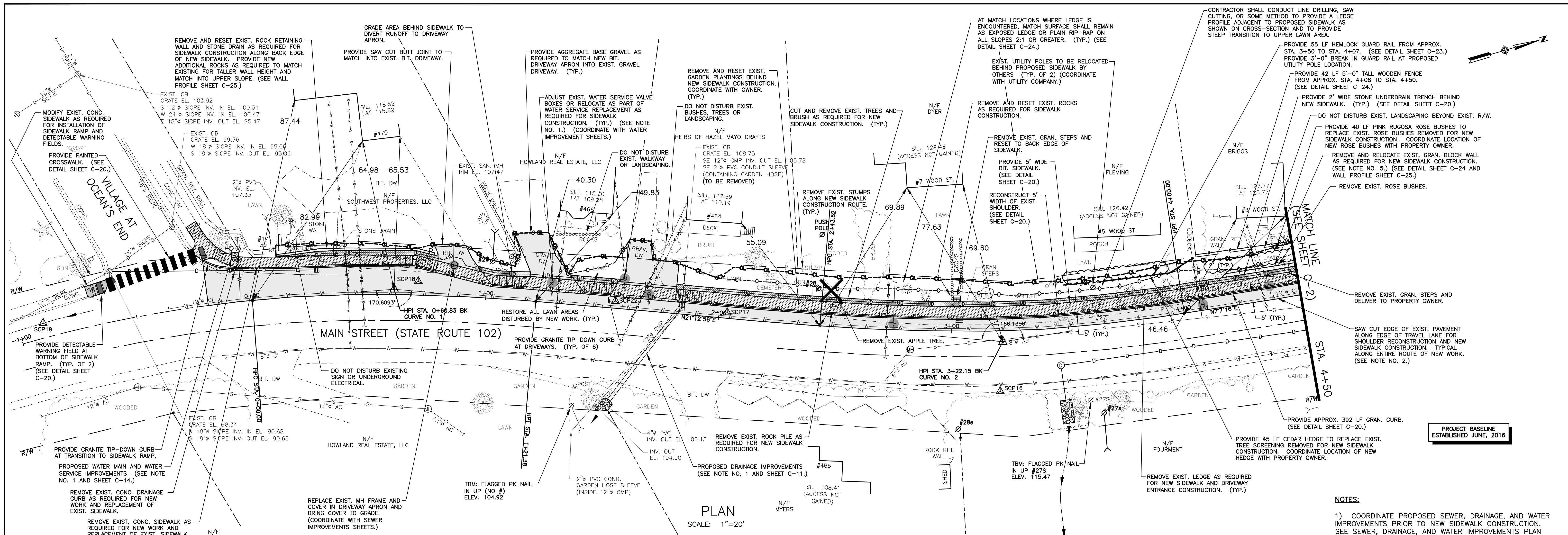
DES. BY: EWH DR. BY: RMR CK. BY: AH

TOWN OF SOUTHWEST HARBOR, MAINE

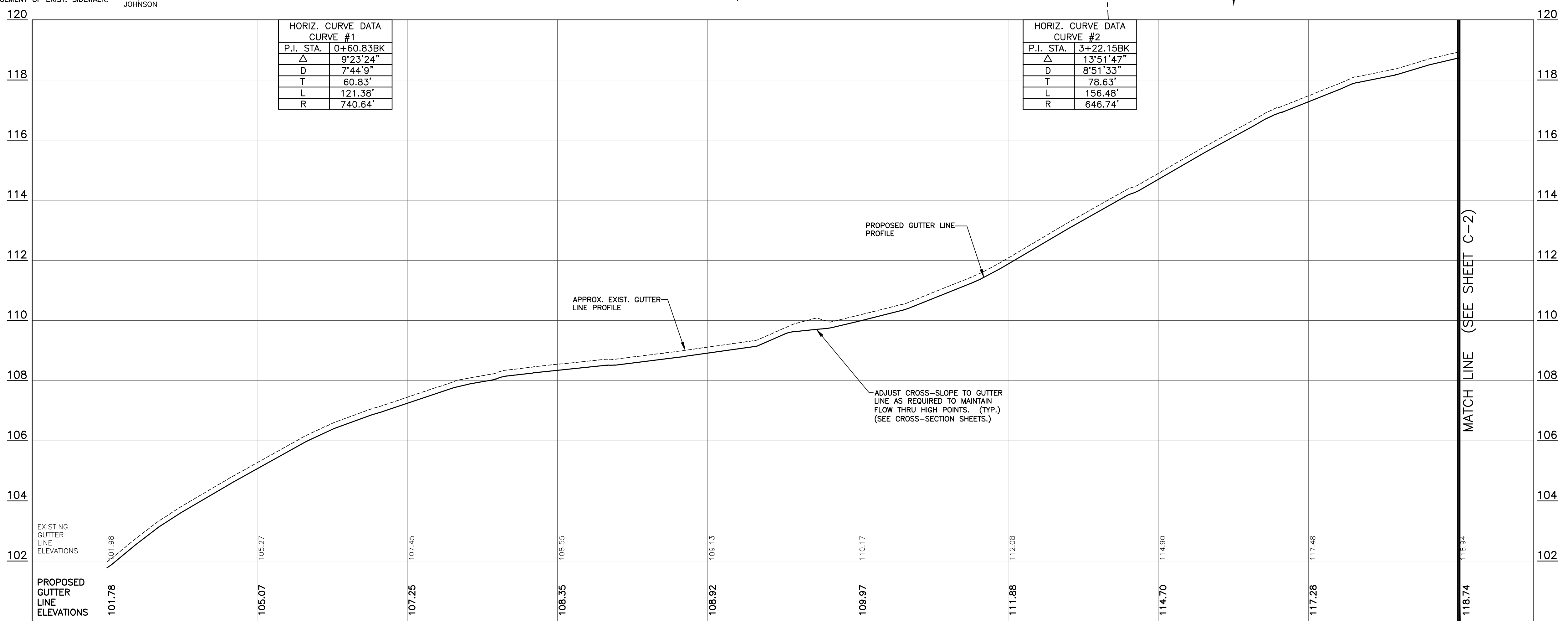
MAIN STREET SIDEWALK, DRAINAGE, WATER, AND SEWER IMPROVEMENTS

### GENERAL NOTES & INDEX

SCALE: NONE	PROJECT NO.: 1356
DATE: MAY, 2022	SHEET: G-1

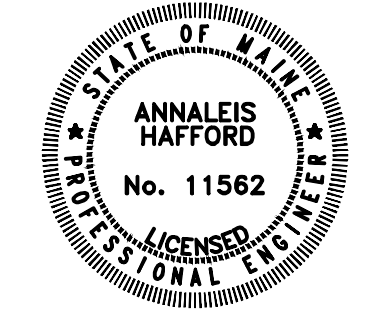


PLAN  
SCALE: 1"=20'



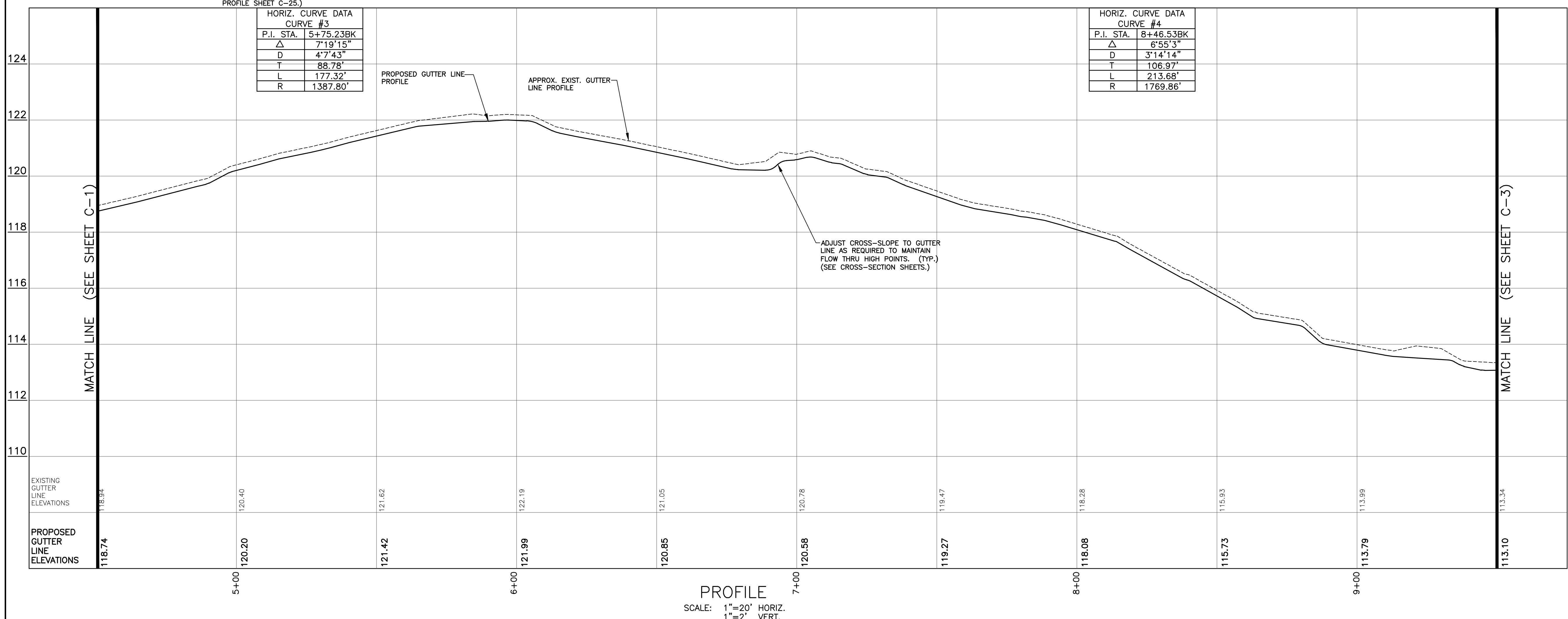
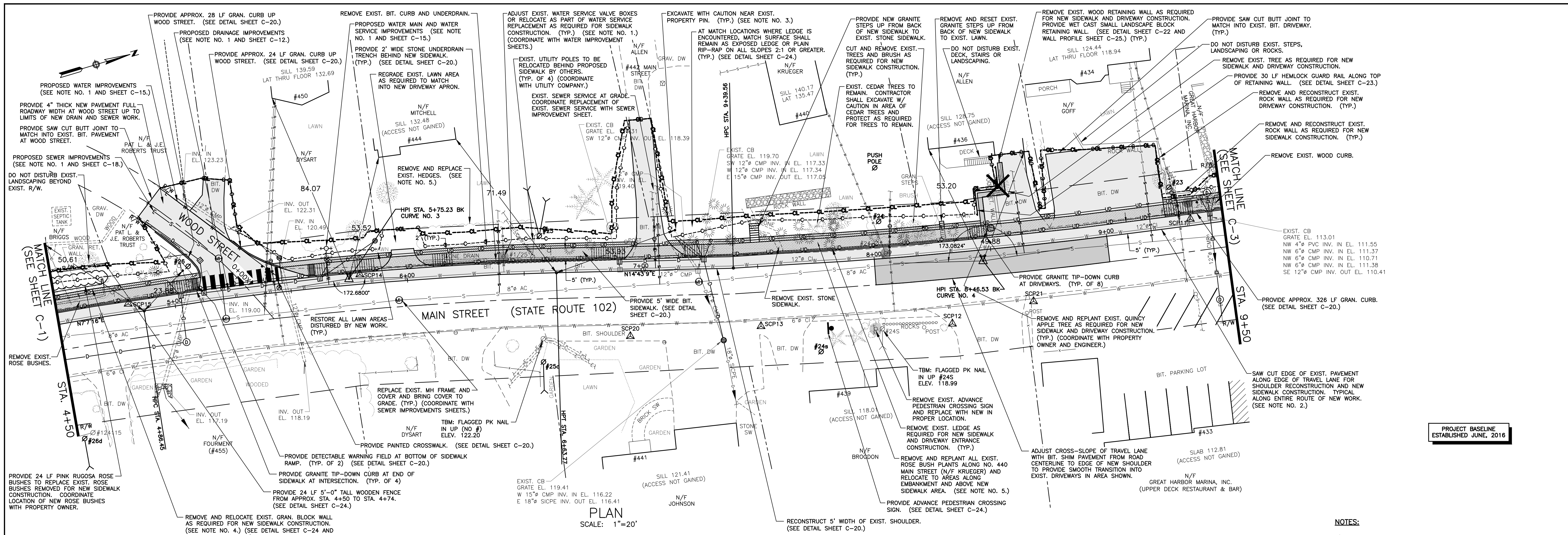
PROFILE  
SCALE: 1"=20' HORIZ.  
1"=2' VERT.

- NOTES:**
- 1) COORDINATE PROPOSED SEWER, DRAINAGE, AND WATER IMPROVEMENTS PRIOR TO NEW SIDEWALK CONSTRUCTION. SEE SEWER, DRAINAGE, AND WATER IMPROVEMENTS PLAN SHEETS.
  - 2) PROVIDE 12" WIDE GROUND OVERLAP JOINT FOR FINAL SURFACE COURSE PAVEMENT. MATCH INTO EXIST. TRAVEL LANE PAVEMENT.
  - 3) ALL GARDEN, PLANTINGS, AND LANDSCAPE FEATURES NOT SPECIFICALLY INDICATED TO BE REMOVED AND DISCARDED SHALL BE REMOVED AND REPLANTED OR RESET BEHIND SIDEWALK IN GENERAL AREA WHERE THEY EXIST. NOW. COORDINATE ALL REMOVAL AND REPLANTING OR RESET WITH PROPERTY OWNER AND ENGINEER PRIOR TO STARTING THE WORK.
  - 4) CONTRACTOR IS RESPONSIBLE FOR WATERING AND MAINTAINING ALL PLANTINGS TO BE REMOVED AND RESET THROUGHOUT PROJECT AND CONTINUE TO WATER AND MAINTAIN PLANTINGS FOR 60 DAYS AFTER FINAL REPLANTING.
  - 5) CONTRACTOR SHALL REUSE EXISTING BLOCK AND PROVIDE NEW ADDITIONAL BLOCKS AS REQUIRED TO MATCH EXISTING FOR TALLER WALL HEIGHT AND MATCH INTO UPPER SLOPE. (SEE DETAIL SHEET C-20 AND PROFILE SHEET C-25.)
  - 6) ALL REGULATORY SIGNS MUST BE MAINTAINED IN PLACE AT ALL TIMES EVEN IF WITH TEMPORARY SUPPORT.

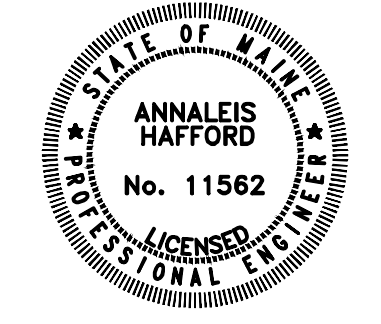


**OLVER ASSOCIATES INC.**  
ENVIRONMENTAL ENGINEERS  
280 MAIN STREET WINTERPORT, MAINE

MAY, 2022	MISC. REVISIONS PER MDOT COMMENTS	
DATE	ADDITION OR REVISION	
DES. BY: EWH	DR. BY: RMR	CK. BY: AH
TOWN OF SOUTHWEST HARBOR, MAINE		
MAIN STREET SIDEWALK, DRAINAGE, WATER, AND SEWER IMPROVEMENTS		
<b>SIDEWALK PLAN &amp; PROFILE</b>		
SCALE: AS NOTED	PROJECT NO.: 1356	
DATE: MAY, 2022	SHEET: C-1	



- NOTES:**
- COORDINATE PROPOSED SEWER, DRAINAGE, AND WATER IMPROVEMENTS PRIOR TO NEW SIDEWALK CONSTRUCTION. SEE SEWER, DRAINAGE, AND WATER IMPROVEMENTS PLAN SHEETS.
  - PROVIDE 12" WIDE GROUND OVERLAP JOINT FOR FINAL SURFACE COURSE PAVEMENT. MATCH INTO EXIST. TRAVEL LANE PAVEMENT.
  - IF CONTRACTOR DISTURBS OR REQUIRES REMOVAL OF EXISTING PROPERTY PIN TO COMPLETE WORK, REMOVAL AND RESETTING SHALL BE BY A LICENSED SURVEYOR.
  - CONTRACTOR SHALL REUSE EXISTING BLOCK AND PROVIDE NEW ADDITIONAL BLOCKS AS REQUIRED TO MATCH EXISTING FOR TALLER WALL HEIGHT AND MATCH INTO UPPER SLOPE. (SEE DETAIL SHEET C-24 AND PROFILE SHEET C-25.)
  - COORDINATE ALL EXISTING PLANTINGS FOR RELOCATION AND/OR REPLACEMENT WITH OWNER AND ENGINEER PRIOR TO STARTING NEW WORK. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY REMOVAL AND WATERING OF EXISTING PLANTS AS REQUIRED FOR REUSE.
  - ALL REGULATORY SIGNS MUST BE MAINTAINED IN PLACE AT ALL TIMES EVEN IF WITH TEMPORARY SUPPORT.



**OLVER ASSOCIATES INC.**  
 ENVIRONMENTAL ENGINEERS  
 200 MAIN STREET WINTERPORT, MAINE

MAY, 2022	MISC. REVISIONS PER MDOT COMMENTS
DATE	ADDITION OR REVISION

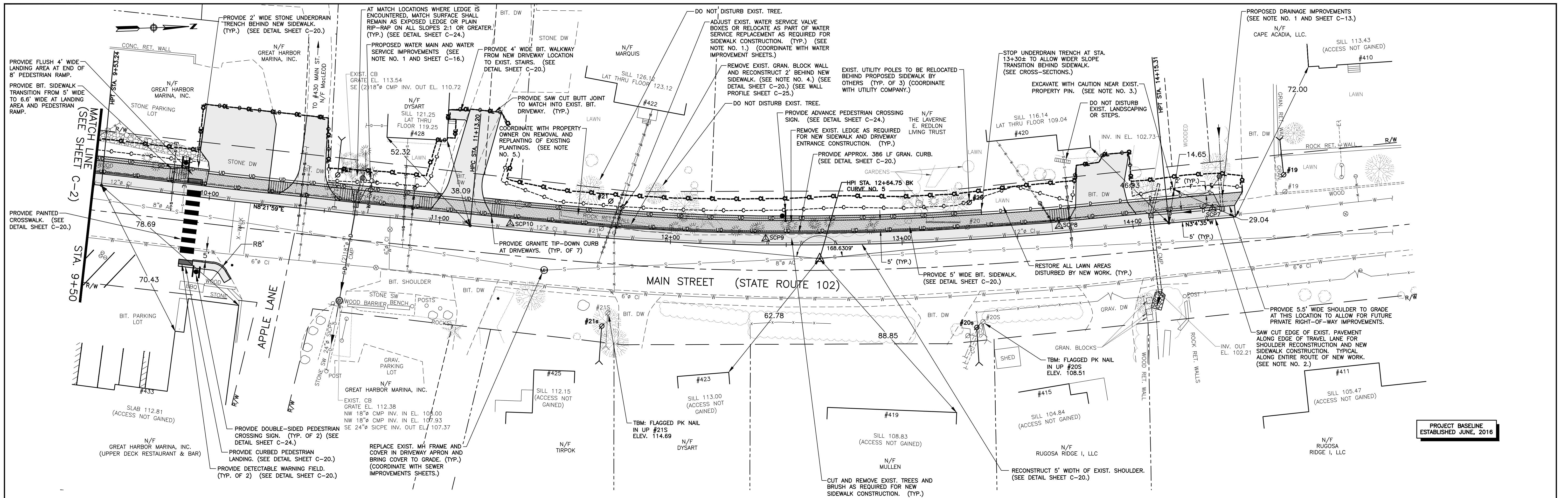
DES. BY: EWH DR. BY: RMR CK. BY: AH

TOWN OF SOUTHWEST HARBOR, MAINE

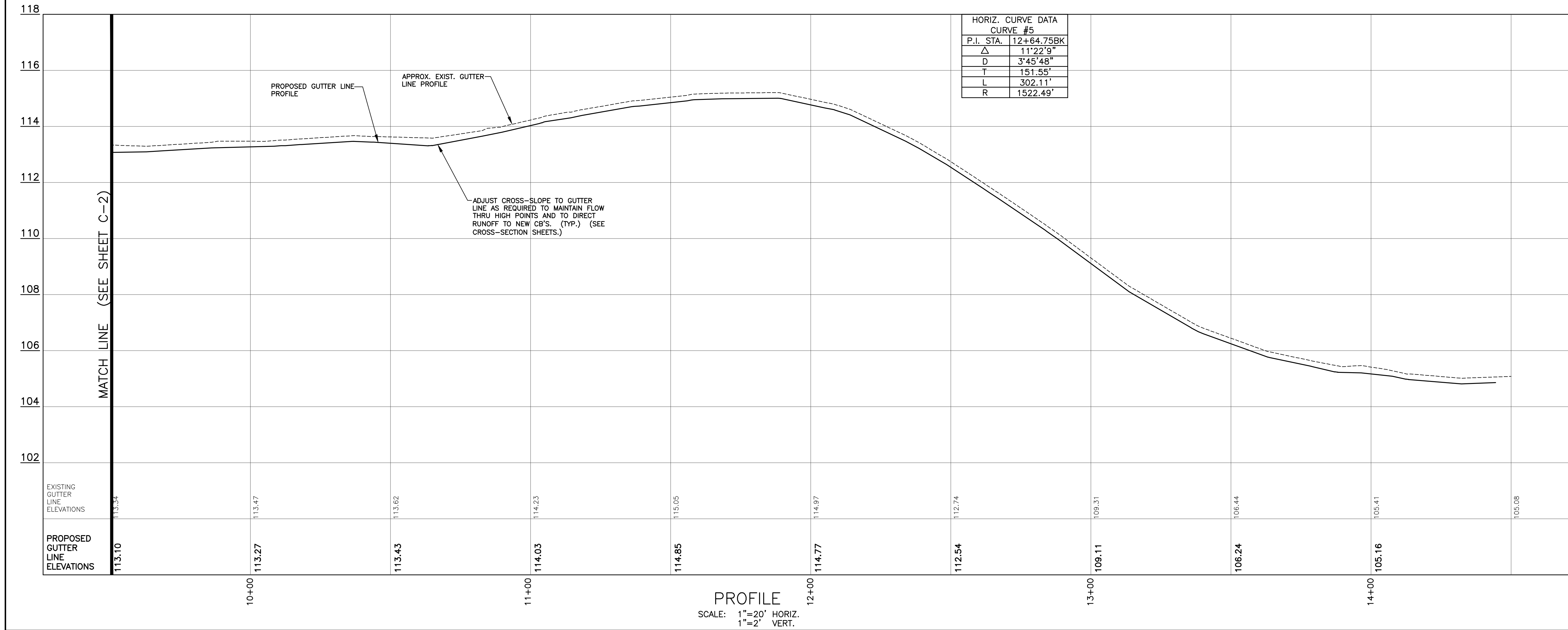
MAIN STREET SIDEWALK, DRAINAGE, WATER, AND SEWER IMPROVEMENTS

**SIDEWALK PLAN & PROFILE**

SCALE: AS NOTED	PROJECT NO.: 1356
DATE: MAY, 2022	SHEET: C-2



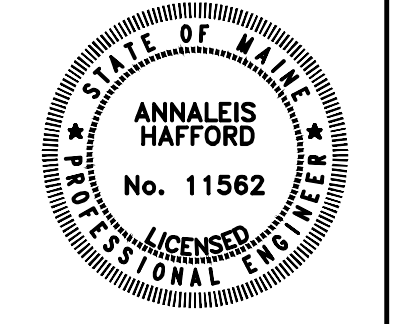
PLAN  
SCALE: 1"=20'



PROFILE  
SCALE: 1"=20' HORIZ.  
1"=2' VERT.

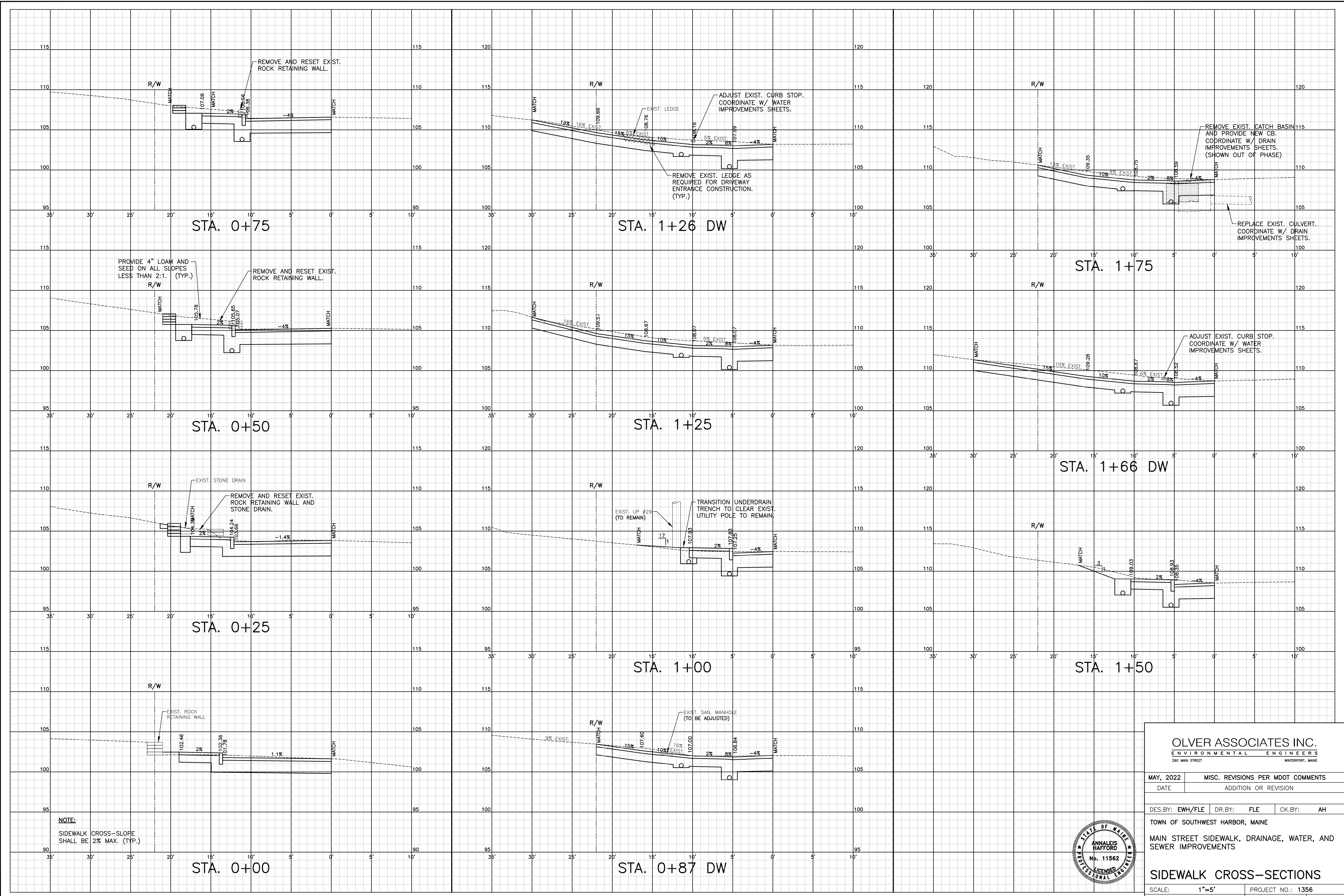
HORIZ. CURVE DATA	
CURVE #5	
P.I. STA.	12+64.75BK
Δ	11°22'9"
D	3'45'48"
T	151.55'
L	302.11'
R	1522.49'

- NOTES:
- 1) COORDINATE PROPOSED SEWER, DRAINAGE, AND WATER IMPROVEMENTS PRIOR TO NEW SIDEWALK CONSTRUCTION. SEE SEWER, DRAINAGE, AND WATER IMPROVEMENTS PLAN SHEETS.
  - 2) PROVIDE 12" WIDE GROUND OVERLAP JOINT FOR FINAL SURFACE COURSE PAVEMENT. MATCH INTO EXIST. TRAVEL LANE PAVEMENT.
  - 3) IF CONTRACTOR DISTURBS OR REQUIRES REMOVAL OF EXISTING PROPERTY PIN TO COMPLETE WORK, REMOVAL AND RESETTING SHALL BE BY A LICENSED SURVEYOR.
  - 4) ALL EXISTING GRANITE BLOCKS REMOVED FOR NEW SIDEWALK CONSTRUCTION AND FOR RECONSTRUCTION OF EXISTING RETAINING WALL SHALL BE STORED ON PROPERTY OWNER'S SITE. NO EXISTING BLOCKS SHALL BE REMOVED FROM OWNER'S PROPERTY.
  - 5) CONTRACTOR SHALL COORDINATE AND NOTIFY PROPERTY OWNER AT START OF PROJECT SO OWNER CAN REMOVE EXISTING PLANTINGS AT BEGINNING OF PROJECT AND THEN REPLANT AT COMPLETION OF WALL CONSTRUCTION.
  - 6) ALL REGULATORY SIGNS MUST BE MAINTAINED IN PLACE AT ALL TIMES EVEN IF WITH TEMPORARY SUPPORT.



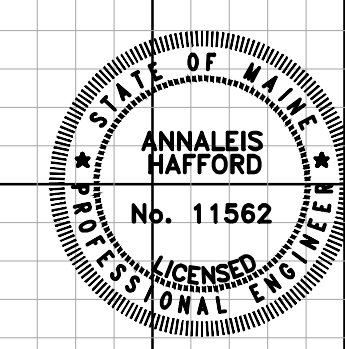
**OLVER ASSOCIATES INC.**  
ENVIRONMENTAL ENGINEERS  
200 MAIN STREET WINTERPORT, MAINE

MAY, 2022	MISC. REVISIONS PER MDOT COMMENTS	
DATE	ADDITION OR REVISION	
DES. BY: EWH	DR. BY: RMR	CK. BY: AH
TOWN OF SOUTHWEST HARBOR, MAINE		
MAIN STREET SIDEWALK, DRAINAGE, WATER, AND SEWER IMPROVEMENTS		
<b>SIDEWALK PLAN &amp; PROFILE</b>		
SCALE: AS NOTED	PROJECT NO.: 1356	
DATE: MAY, 2022	SHEET: C-3	

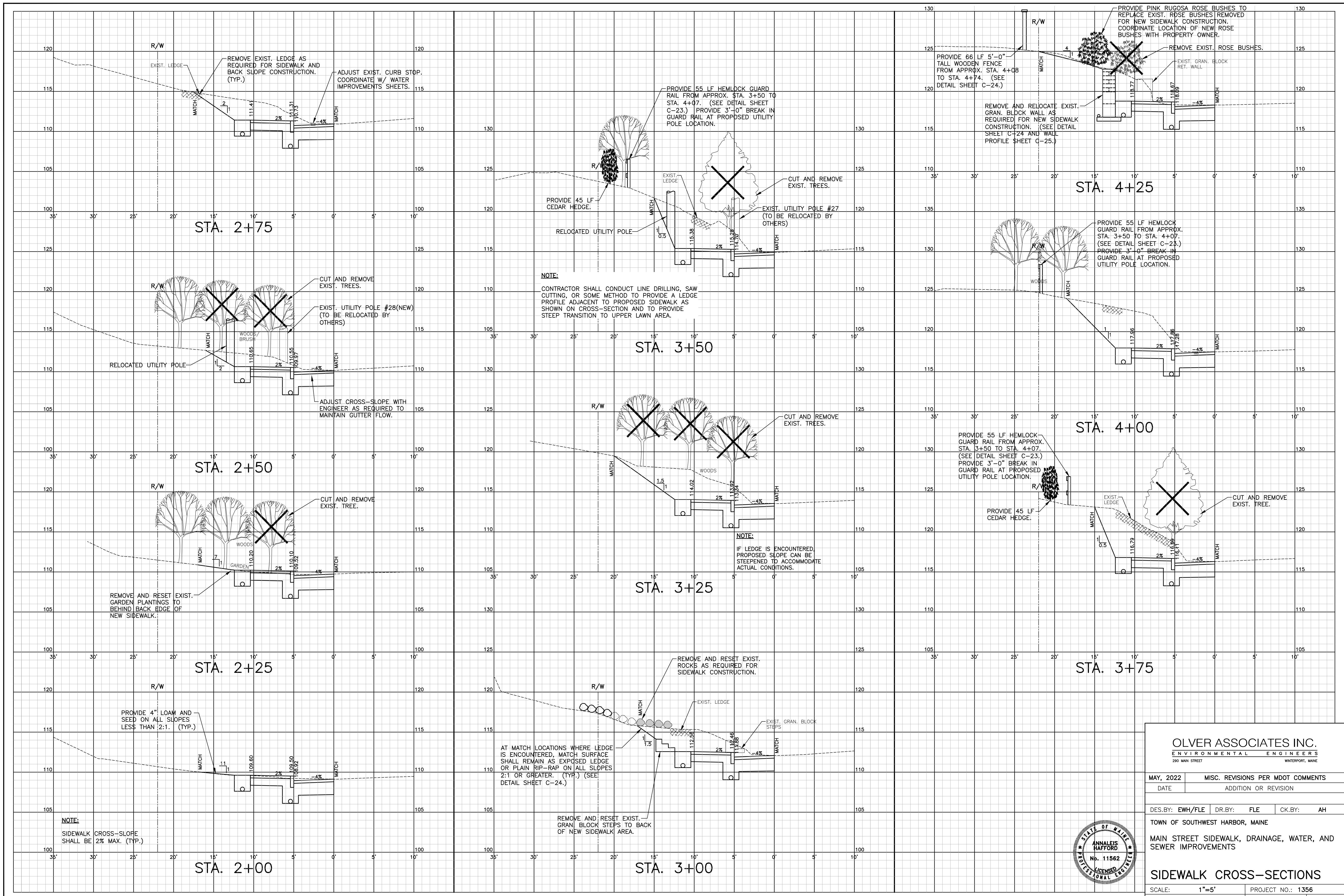


**NOTE:**  
SIDEWALK CROSS-SLOPE SHALL BE 2% MAX. (TYP.)

<b>OLVER ASSOCIATES INC.</b> ENVIRONMENTAL ENGINEERS 200 MAIN STREET WINTERPORT, MAINE	
MAY, 2022	MISC. REVISIONS PER MDT COMMENTS
DATE	ADDITION OR REVISION
DES. BY: EWH/FLE	DR. BY: FLE CK. BY: AH
TOWN OF SOUTHWEST HARBOR, MAINE	
MAIN STREET SIDEWALK, DRAINAGE, WATER, AND SEWER IMPROVEMENTS	
<b>SIDEWALK CROSS-SECTIONS</b>	
SCALE: 1"=5'	PROJECT NO.: 1356
DATE: MAY, 2022	SHEET: C-4



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STA. 2+75

STA. 3+50

STA. 4+25

STA. 2+50

STA. 3+25

STA. 4+00

STA. 2+25

STA. 3+75

STA. 2+00

STA. 3+00

**NOTE:**  
CONTRACTOR SHALL CONDUCT LINE DRILLING, SAW CUTTING, OR SOME METHOD TO PROVIDE A LEDGE PROFILE ADJACENT TO PROPOSED SIDEWALK AS SHOWN ON CROSS-SECTION AND TO PROVIDE STEEP TRANSITION TO UPPER LAWN AREA.

**NOTE:**  
IF LEDGE IS ENCOUNTERED, PROPOSED SLOPE CAN BE STEEPENED TO ACCOMMODATE ACTUAL CONDITIONS.

AT MATCH LOCATIONS WHERE LEDGE IS ENCOUNTERED, MATCH SURFACE SHALL REMAIN AS EXPOSED LEDGE OR PLAIN RIP-RAP ON ALL SLOPES 2:1 OR GREATER. (TYP.) (SEE DETAIL SHEET C-24.)

REMOVE AND RESET EXIST. GRAN. BLOCK STEPS TO BACK OF NEW SIDEWALK AREA.

**NOTE:**  
SIDEWALK CROSS-SLOPE SHALL BE 2% MAX. (TYP.)

**OLVER ASSOCIATES INC.**  
ENVIRONMENTAL ENGINEERS  
290 MAIN STREET WINTERPORT, MAINE

MAY, 2022 MISC. REVISIONS PER MDOT COMMENTS  
DATE ADDITION OR REVISION

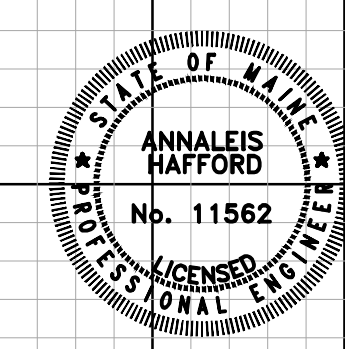
DES. BY: EWH/FLE DR. BY: FLE CK. BY: AH

TOWN OF SOUTHWEST HARBOR, MAINE

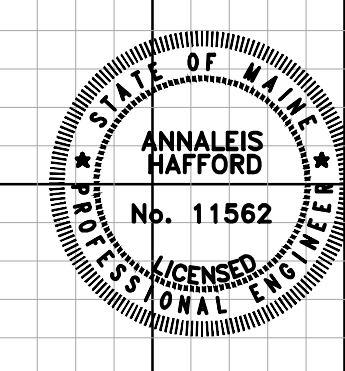
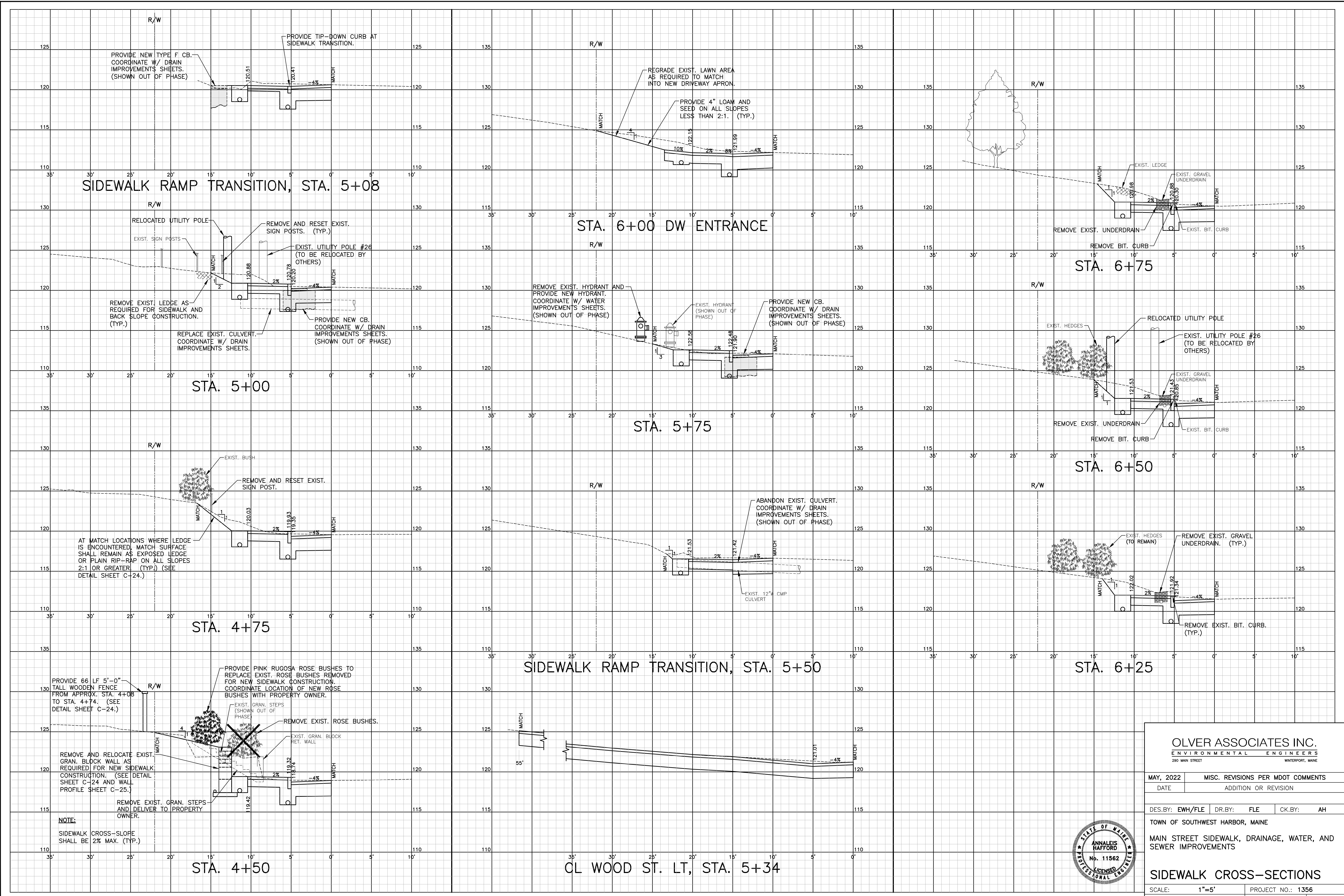
MAIN STREET SIDEWALK, DRAINAGE, WATER, AND SEWER IMPROVEMENTS

**SIDEWALK CROSS-SECTIONS**

SCALE: 1"=5' PROJECT NO.: 1356  
DATE: MAY, 2022 SHEET: C-5



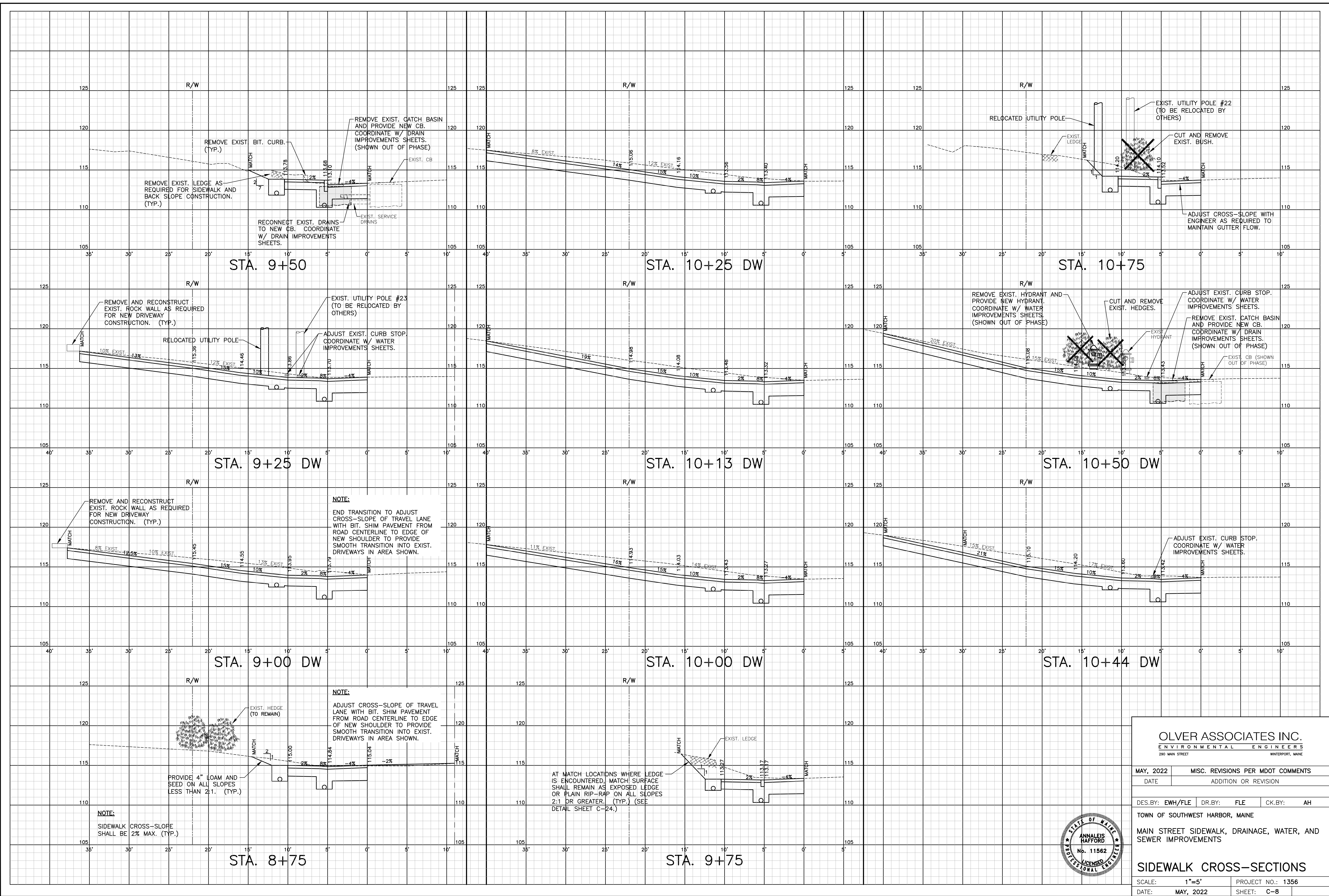
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<b>OLVER ASSOCIATES INC.</b> ENVIRONMENTAL ENGINEERS 200 MAIN STREET WINTERPORT, MAINE	
MAY, 2022	MISC. REVISIONS PER MDOT COMMENTS
DATE	ADDITION OR REVISION
DES. BY: EWH/FLE	DR. BY: FLE
CK. BY: AH	
TOWN OF SOUTHWEST HARBOR, MAINE	
MAIN STREET SIDEWALK, DRAINAGE, WATER, AND SEWER IMPROVEMENTS	
<b>SIDEWALK CROSS-SECTIONS</b>	
SCALE: 1"=5'	PROJECT NO.: 1356
DATE: MAY, 2022	SHEET: C-6

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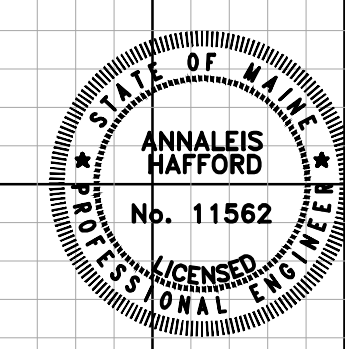


**NOTE:**  
SIDEWALK CROSS-SLOPE SHALL BE 2% MAX. (TYP.)

**NOTE:**  
ADJUST CROSS-SLOPE OF TRAVEL LANE WITH BIT. SHIM PAVEMENT FROM ROAD CENTERLINE TO EDGE OF NEW SHOULDER TO PROVIDE SMOOTH TRANSITION INTO EXIST. DRIVEWAYS IN AREA SHOWN.

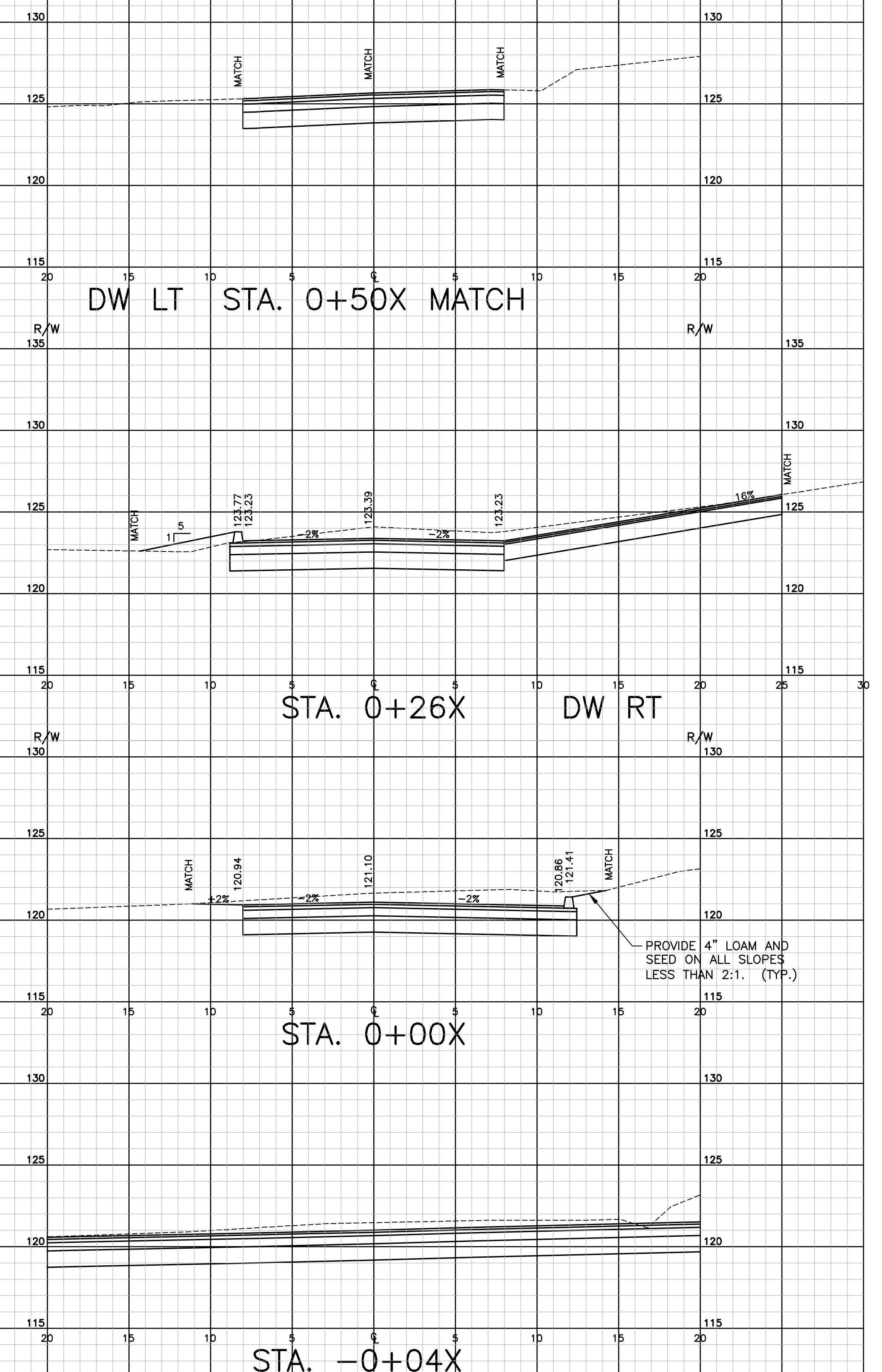
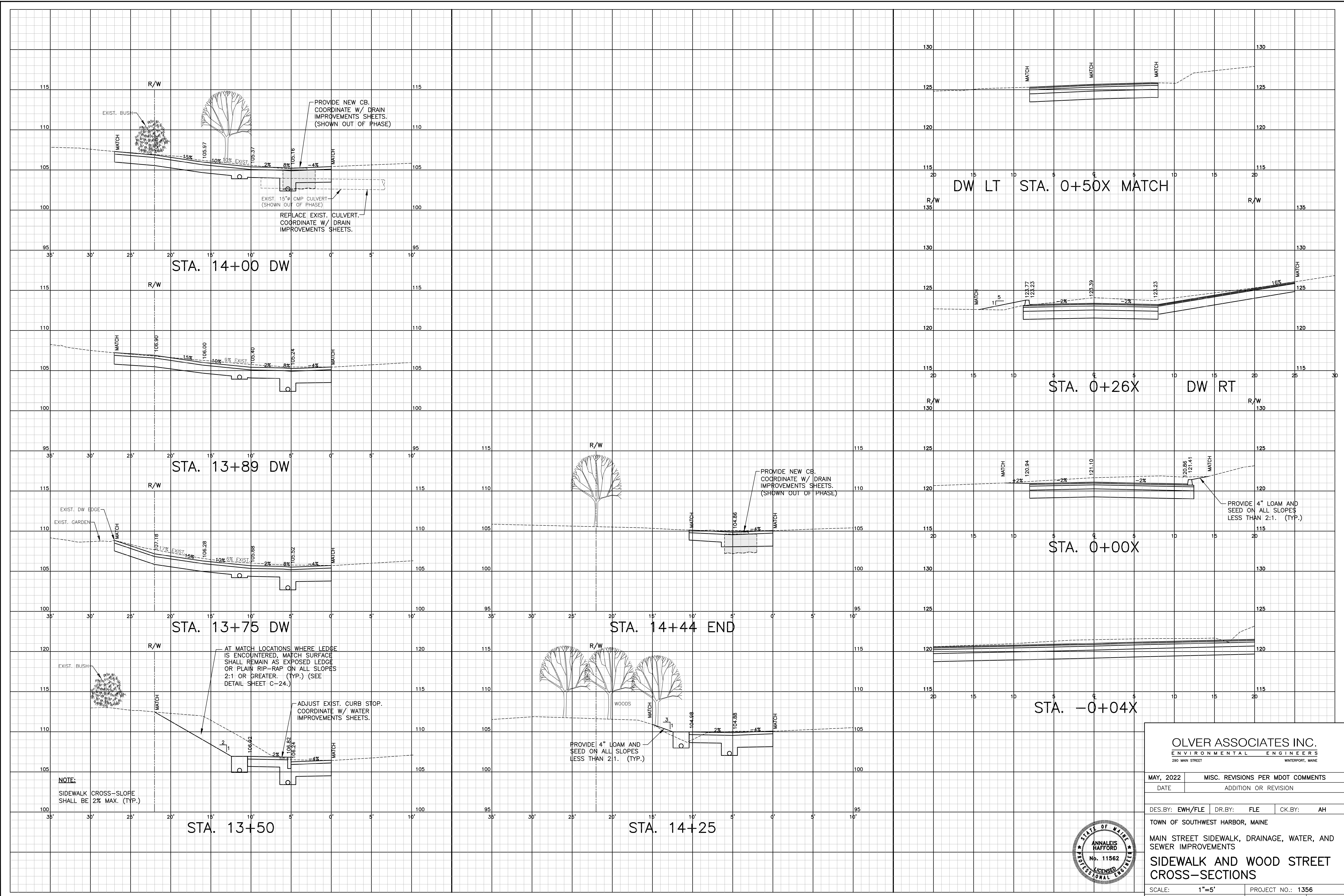
AT MATCH LOCATIONS WHERE LEDGE IS ENCOUNTERED, MATCH SURFACE SHALL REMAIN AS EXPOSED LEDGE OR PLAIN RIP-RAP ON ALL SLOPES 2:1 OR GREATER. (TYP.) (SEE DETAIL SHEET C-24.)

<b>OLVER ASSOCIATES INC.</b> ENVIRONMENTAL ENGINEERS 200 MAIN STREET WINTERPORT, MAINE	
MAY, 2022	MISC. REVISIONS PER MDT COMMENTS
DATE	ADDITION OR REVISION
DES. BY: EWH/FLE	DR. BY: FLE CK. BY: AH
TOWN OF SOUTHWEST HARBOR, MAINE	
MAIN STREET SIDEWALK, DRAINAGE, WATER, AND SEWER IMPROVEMENTS	
<b>SIDEWALK CROSS-SECTIONS</b>	
SCALE: 1"=5'	PROJECT NO.: 1356
DATE: MAY, 2022	SHEET: C-8

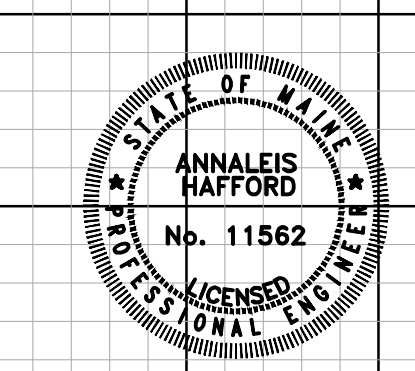


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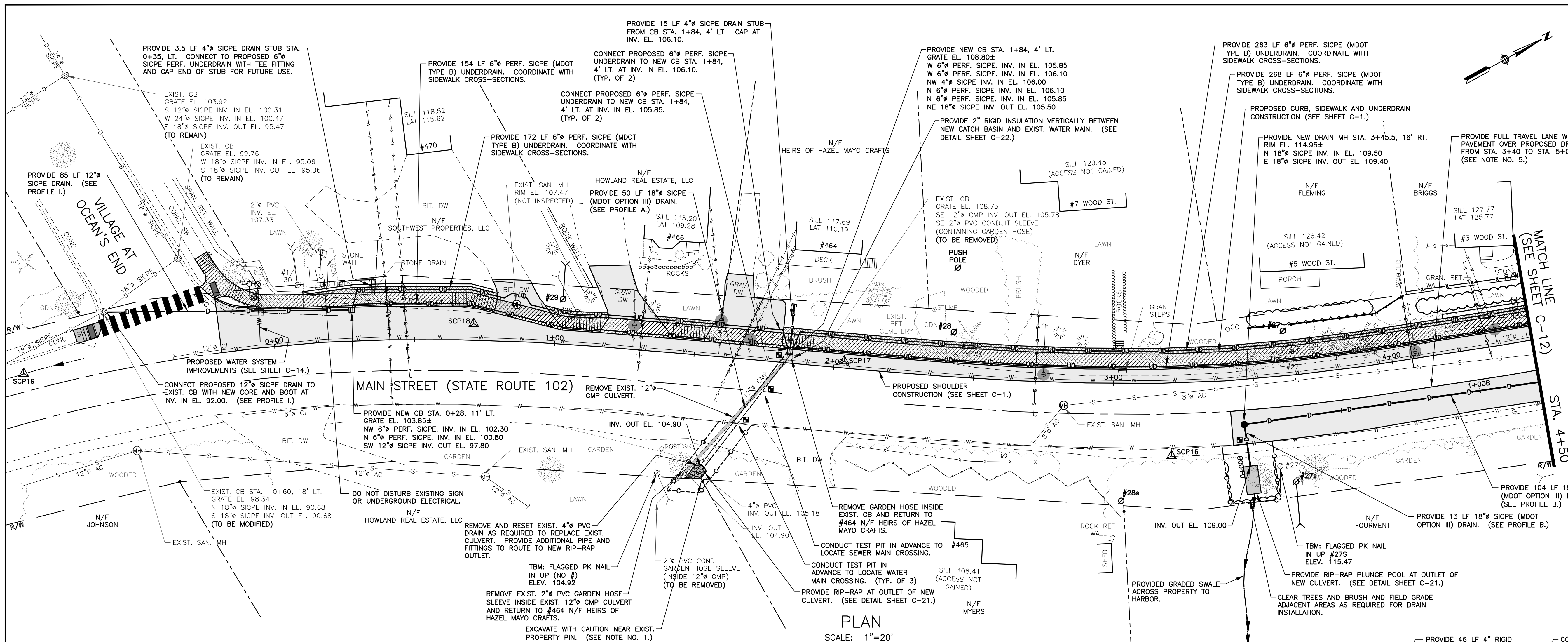




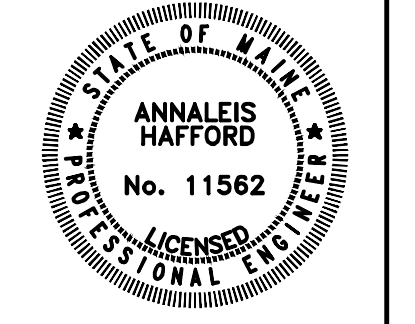
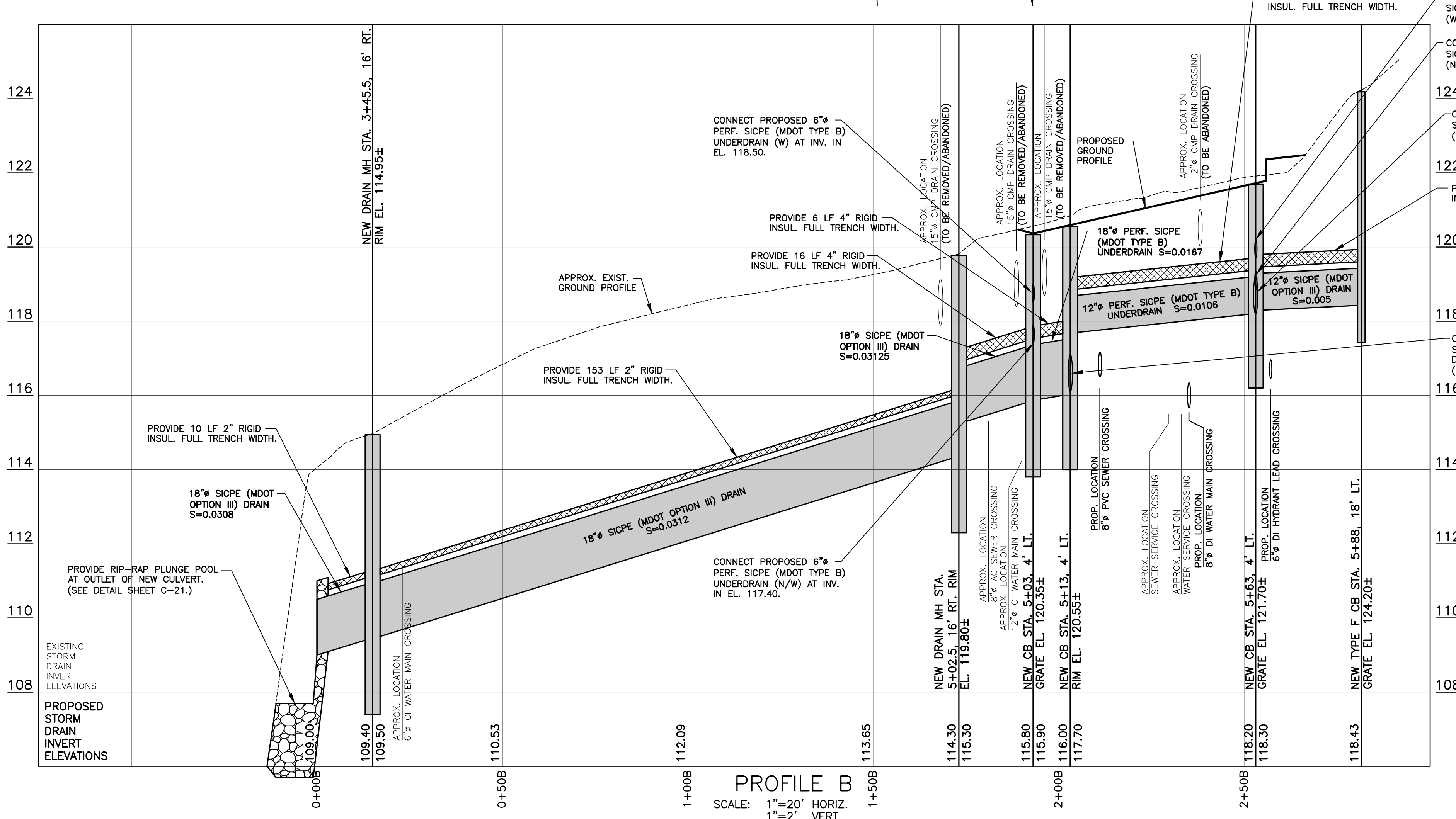
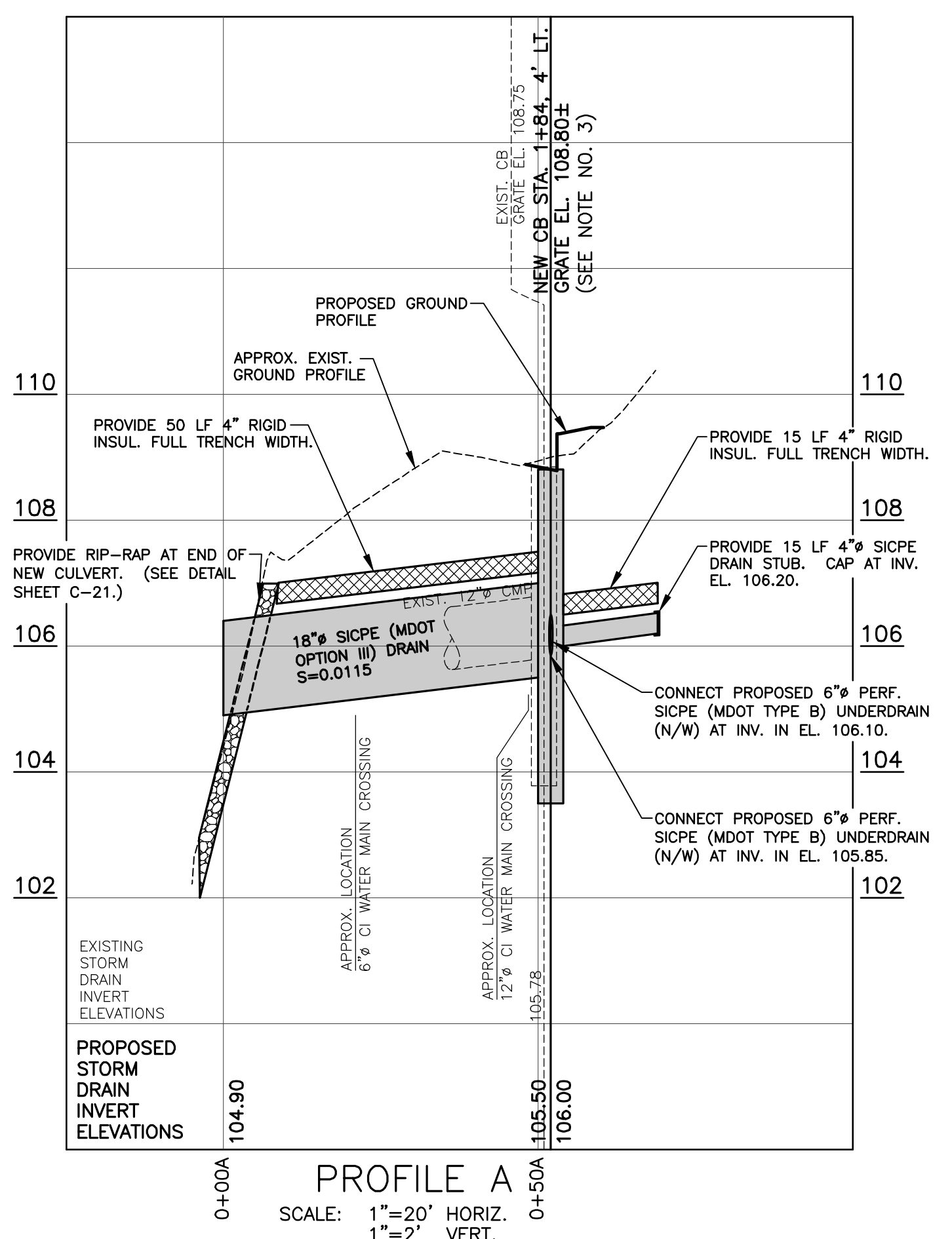
<b>OLVER ASSOCIATES INC.</b> ENVIRONMENTAL ENGINEERS 200 MAIN STREET WINTERPORT, MAINE			
DES. BY: EWH/FLE	DR. BY: FLE	CK. BY: AH	MISC. REVISIONS PER MDOT COMMENTS
DATE: MAY, 2022			ADDITION OR REVISION
TOWN OF SOUTHWEST HARBOR, MAINE			
MAIN STREET SIDEWALK, DRAINAGE, WATER, AND SEWER IMPROVEMENTS			
<b>SIDEWALK AND WOOD STREET CROSS-SECTIONS</b>			
SCALE: 1"=5'	PROJECT NO.: 1356		
DATE: MAY, 2022	SHEET: C-10		



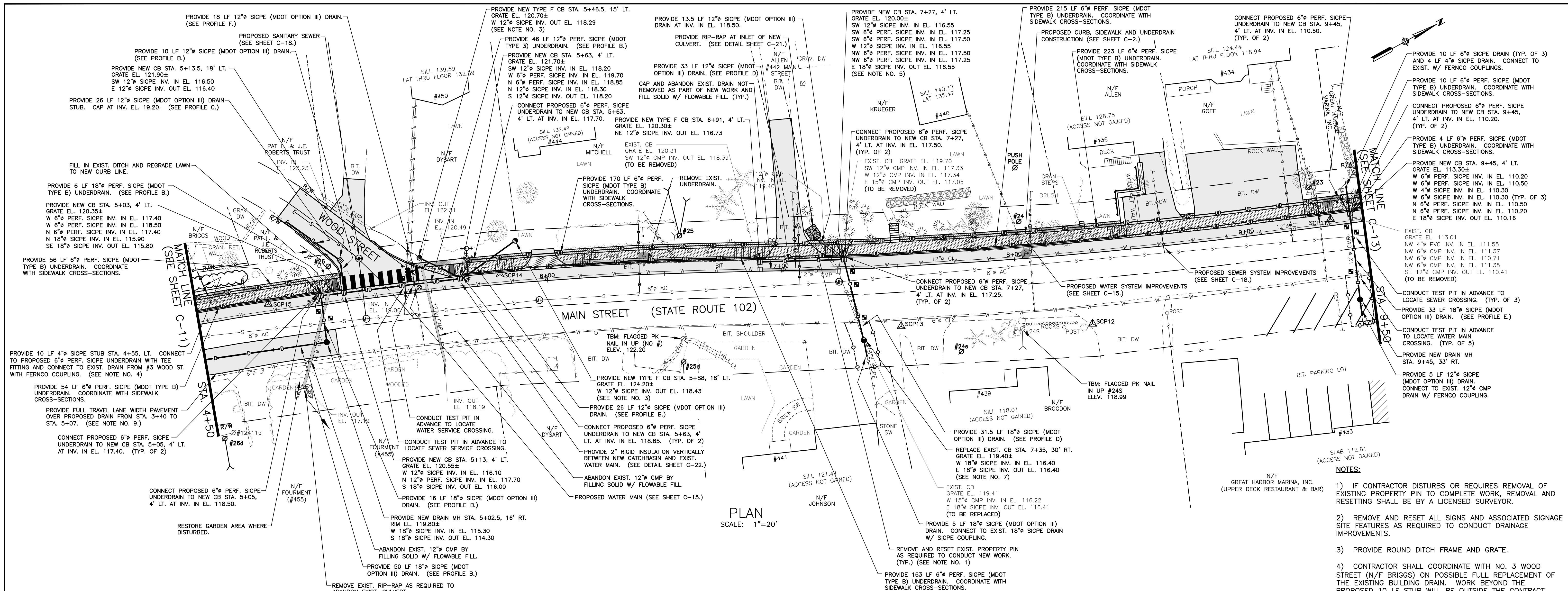
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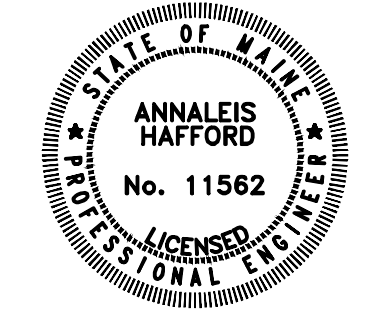
- NOTES:**
- IF CONTRACTOR DISTURBS OR REQUIRES REMOVAL OF EXISTING PROPERTY PIN TO COMPLETE WORK, REMOVAL AND RESETING SHALL BE BY A LICENSED SURVEYOR.
  - COORDINATE REMOVAL AND OR RESETING SITE FEATURES WITH SIDEWALK IMPROVEMENTS SHEET C-1.
  - DESIGN INTENT IS TO PROVIDE 4" HMA COURSE PAVEMENT IN SHOULDER AREAS AND 6" HMA COURSE PAVEMENT IN TRAVEL LANES.
  - ALL REGULATORY SIGNS MUST BE MAINTAINED IN PLACE AT ALL TIMES EVEN IF WITH TEMPORARY SUPPORT.
  - PROVIDE FULL TRAVEL LANE WIDTH PAVEMENT OVER PROPOSED DRAIN FROM ROADWAY CENTERLINE TO EDGE OF PAVEMENT FROM STA. 3+40 TO STA. 5+07.



<b>OLVER ASSOCIATES INC.</b> ENVIRONMENTAL ENGINEERS 280 MAIN STREET WINTERPORT, MAINE	
MAY, 2022	MISC. REVISIONS PER MDOT COMMENTS
DATE	ADDITION OR REVISION
DES. BY: EWH	DR. BY: FLE
CK. BY: AH	
TOWN OF SOUTHWEST HARBOR, MAINE	
MAIN STREET SIDEWALK, DRAINAGE, WATER, AND SEWER IMPROVEMENTS	
<b>DRAINAGE IMPROVEMENTS PLAN &amp; PROFILE</b>	
SCALE: AS NOTED	PROJECT NO.: 1356
DATE: MAY, 2022	SHEET: C-11

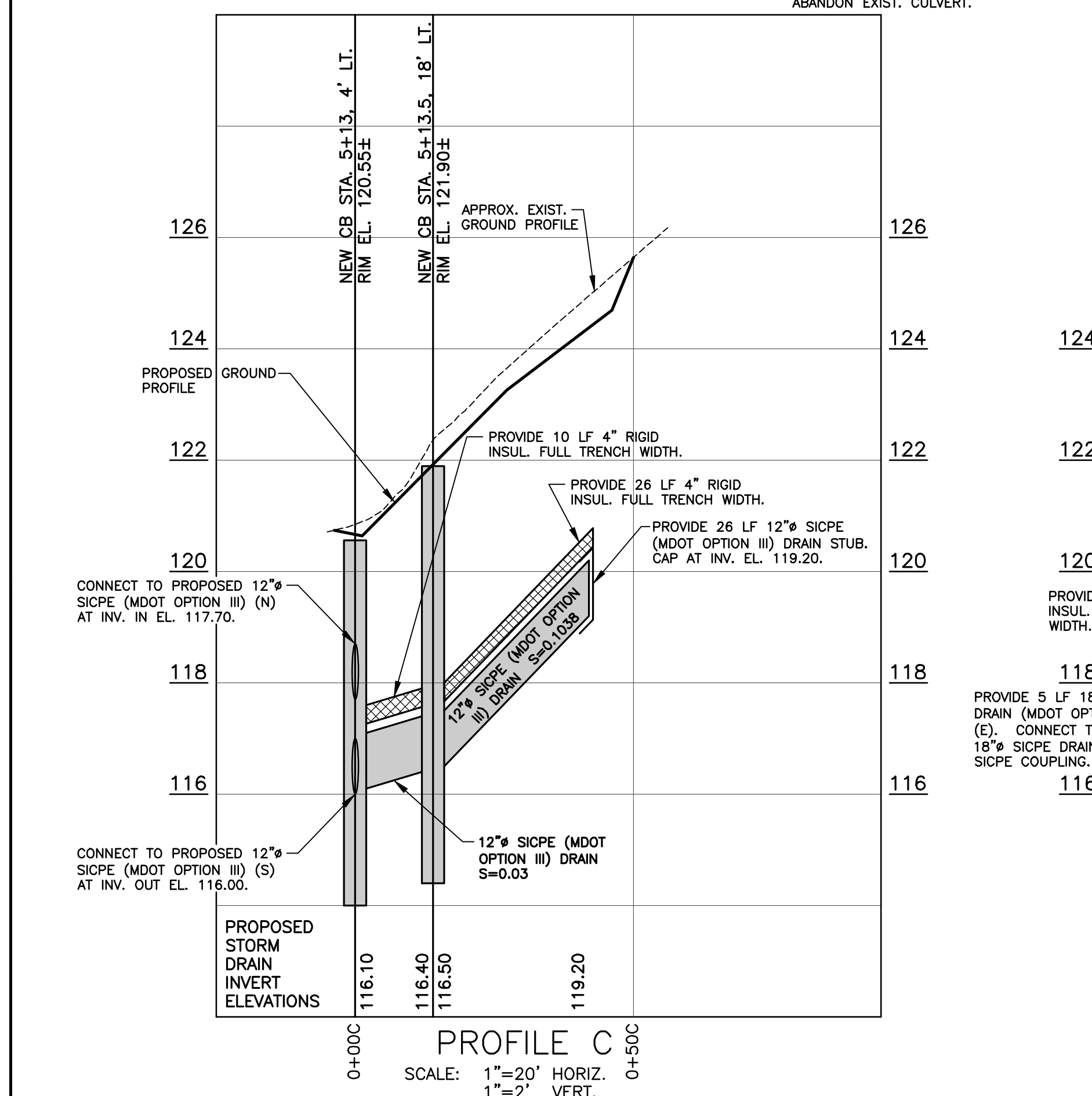
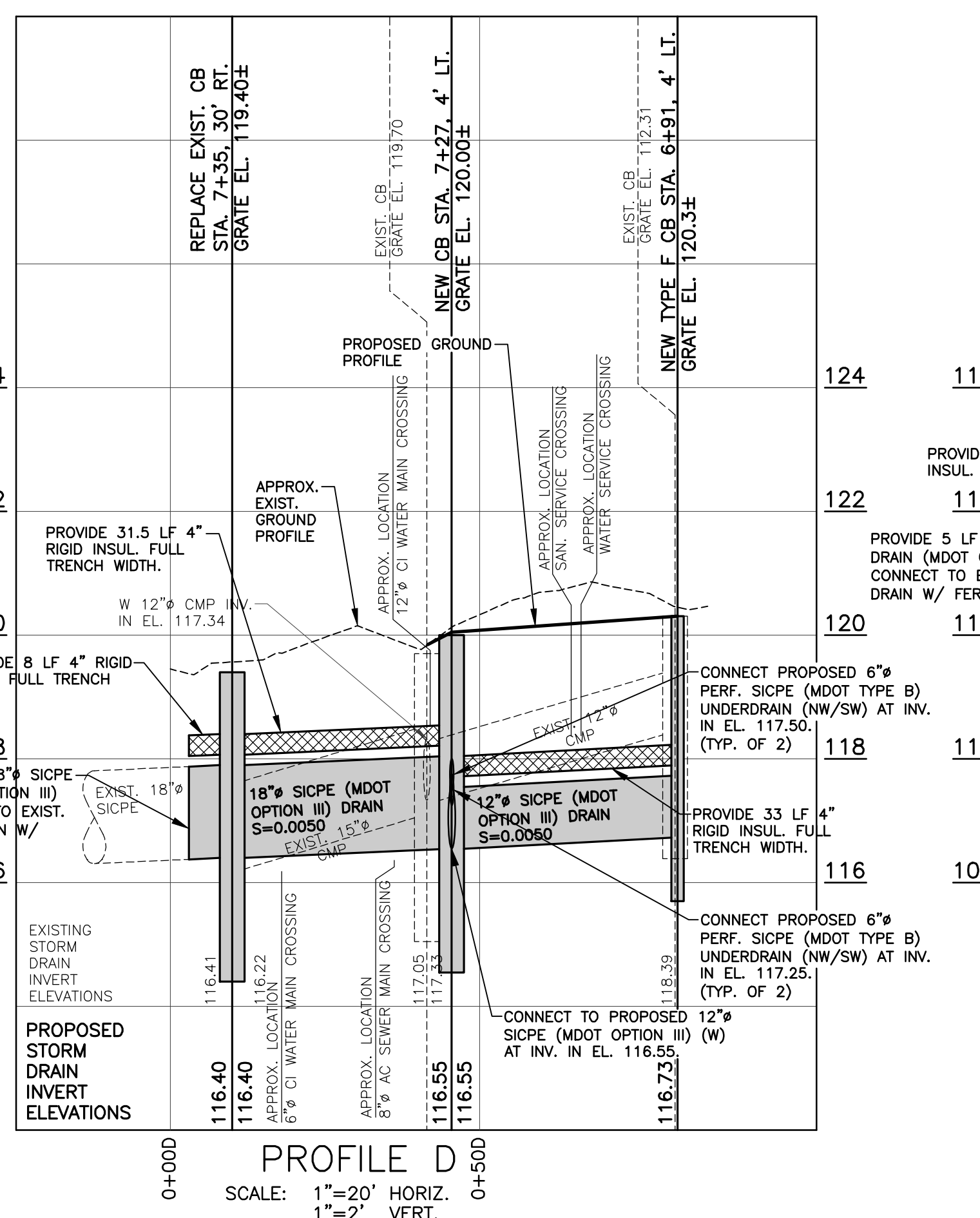
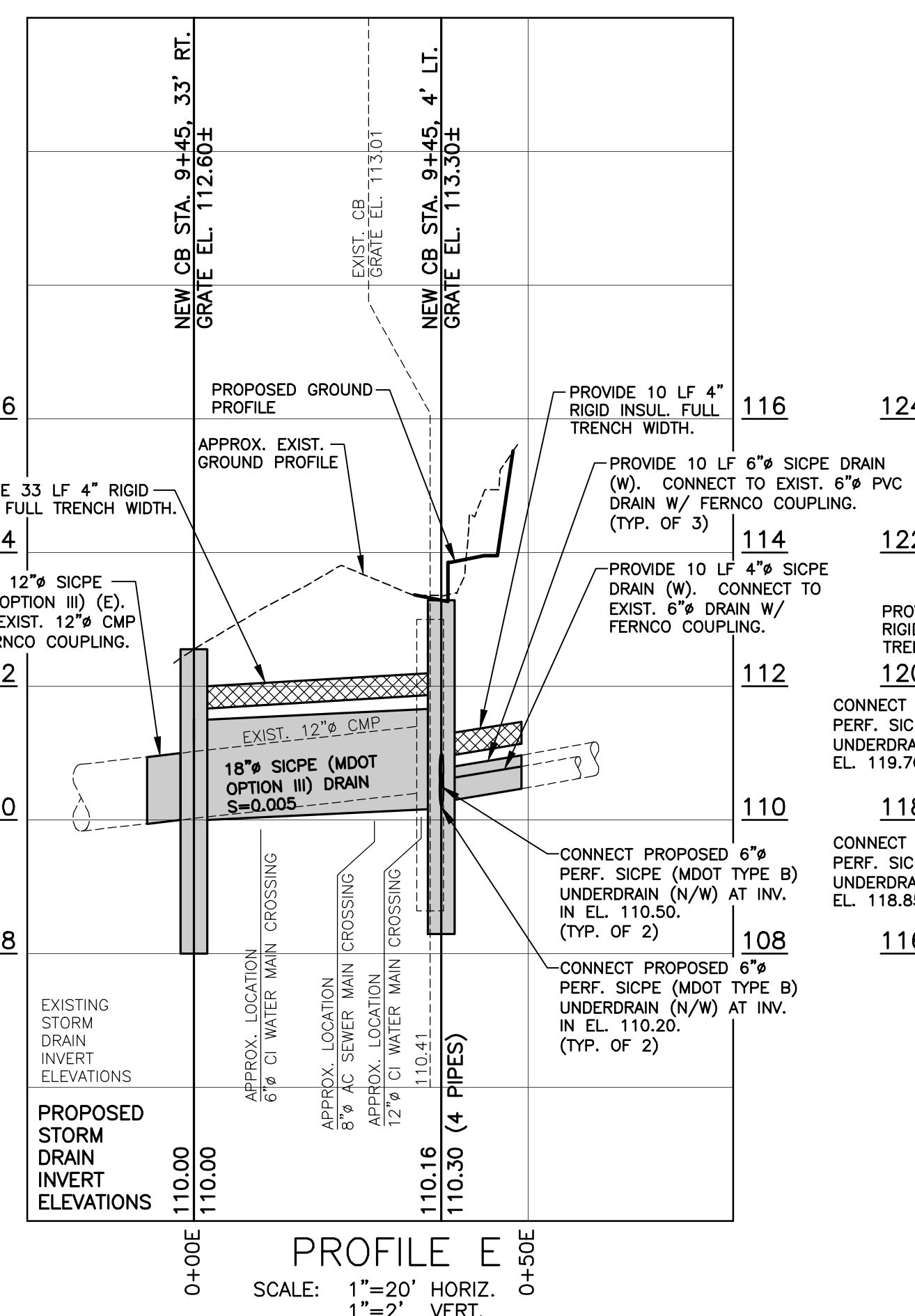
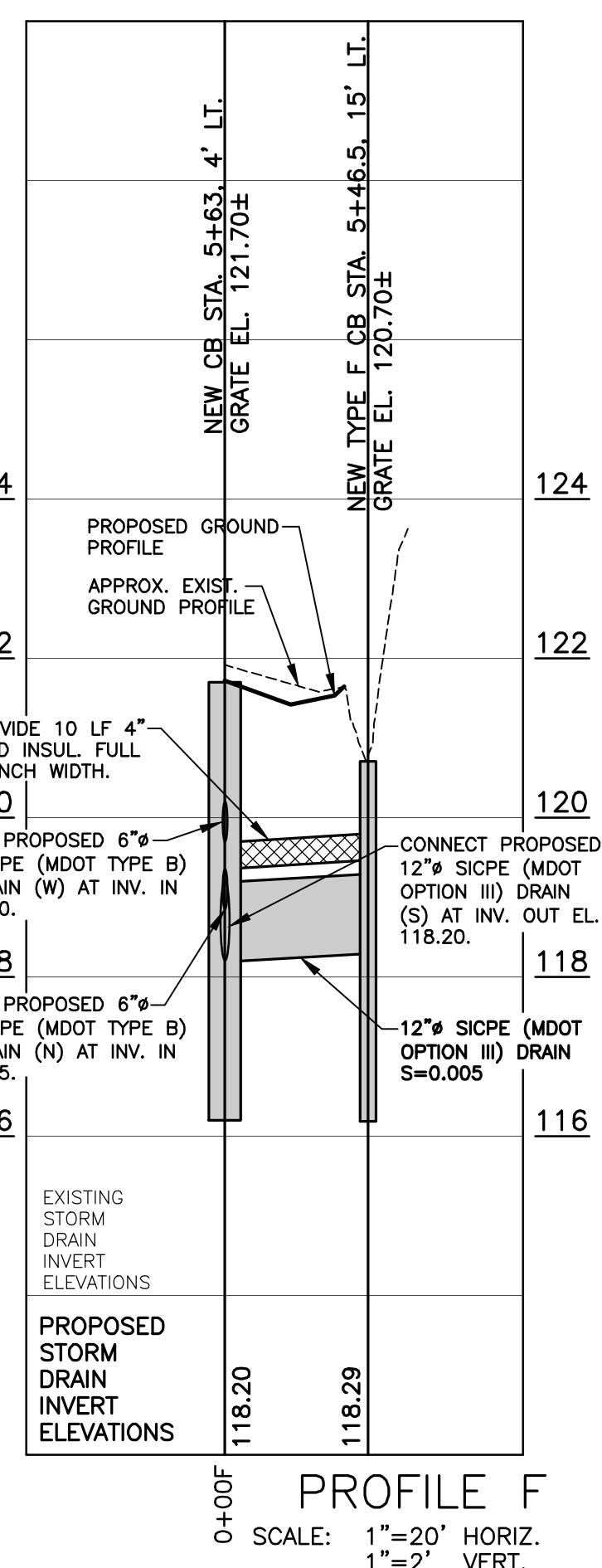


- NOTES:**
- 1) IF CONTRACTOR DISTURBS OR REQUIRES REMOVAL OF EXISTING PROPERTY PIN TO COMPLETE WORK, REMOVAL AND RESETTING SHALL BE BY A LICENSED SURVEYOR.
  - 2) REMOVE AND RESET ALL SIGNS AND ASSOCIATED SIGNAGE SITE FEATURES AS REQUIRED TO CONDUCT DRAINAGE IMPROVEMENTS.
  - 3) PROVIDE ROUND DITCH FRAME AND GRATE.
  - 4) CONTRACTOR SHALL COORDINATE WITH NO. 3 WOOD STREET (N/F BRIGGS) ON POSSIBLE FULL REPLACEMENT OF THE EXISTING BUILDING DRAIN. WORK BEYOND THE PROPOSED 10 LF STUB WILL BE OUTSIDE THE CONTRACT WITH THE TOWN.
  - 5) FIELD VERIFY LOCATION OF EXISTING SANITARY MANHOLE. FIELD ADJUST LOCATION OF NEW CATCHBASIN STA. 7+27, 4' LT. AS NEEDED TO AVOID CONFLICT WITH 18" SICPE DRAIN CROSSING AT MANHOLE LOCATION.
  - 6) DESIGN INTENT IS TO PROVIDE 4" HMA COURSE PAVEMENT IN SHOULDER AREAS AND ON WOOD STREET AND 6" HMA COURSE PAVEMENT IN TRAVEL LANES.
  - 7) PROVIDE ROUND FRAME AND GRATE.
  - 8) ALL REGULATORY SIGNS MUST BE MAINTAINED IN PLACE AT ALL TIMES EVEN IF WITH TEMPORARY SUPPORT.
  - 9) PROVIDE FULL TRAVEL LANE WIDTH PAVEMENT OVER PROPOSED DRAIN FROM ROADWAY CENTERLINE TO EDGE OF PAVEMENT FROM STA. 3+40 TO STA. 5+07.

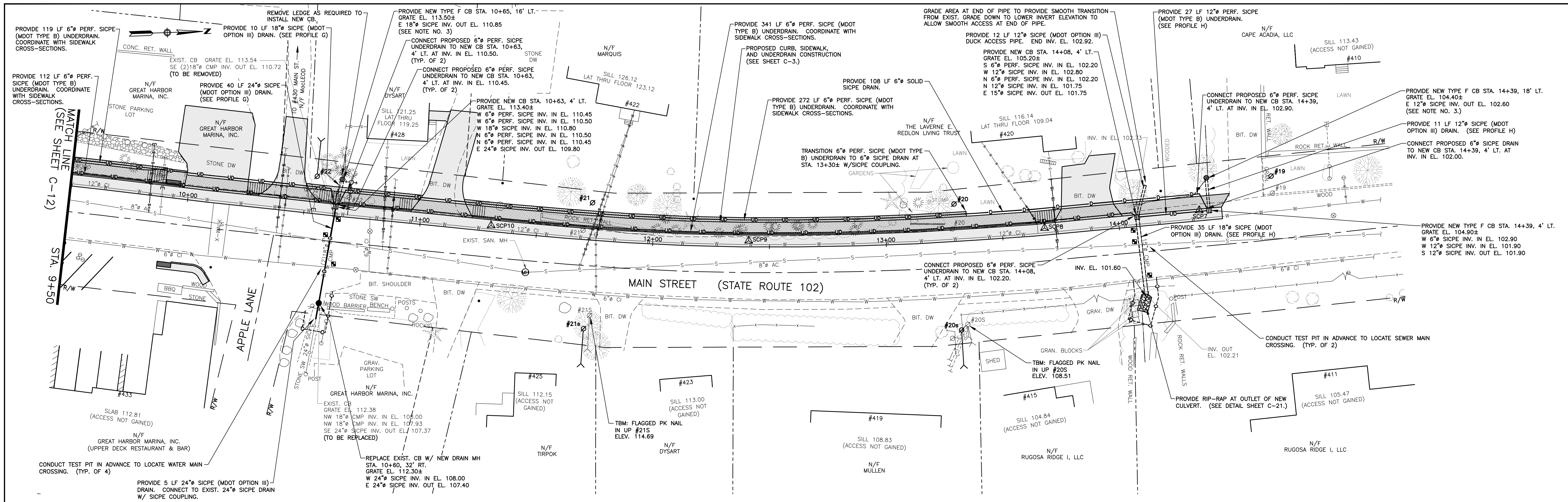


**OLVER ASSOCIATES INC.**  
 ENVIRONMENTAL ENGINEERS  
 280 MAIN STREET WINTERPORT, MAINE

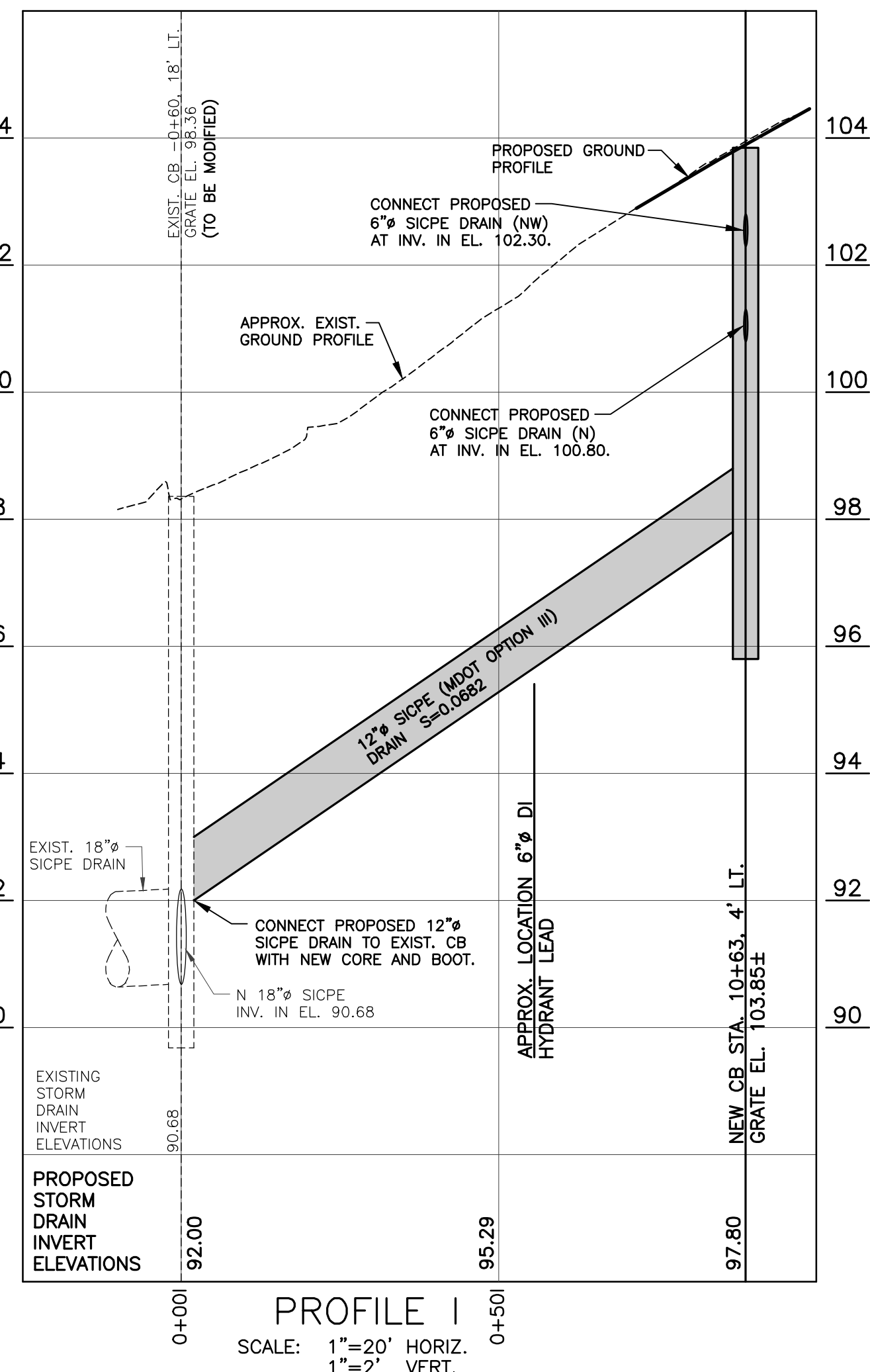
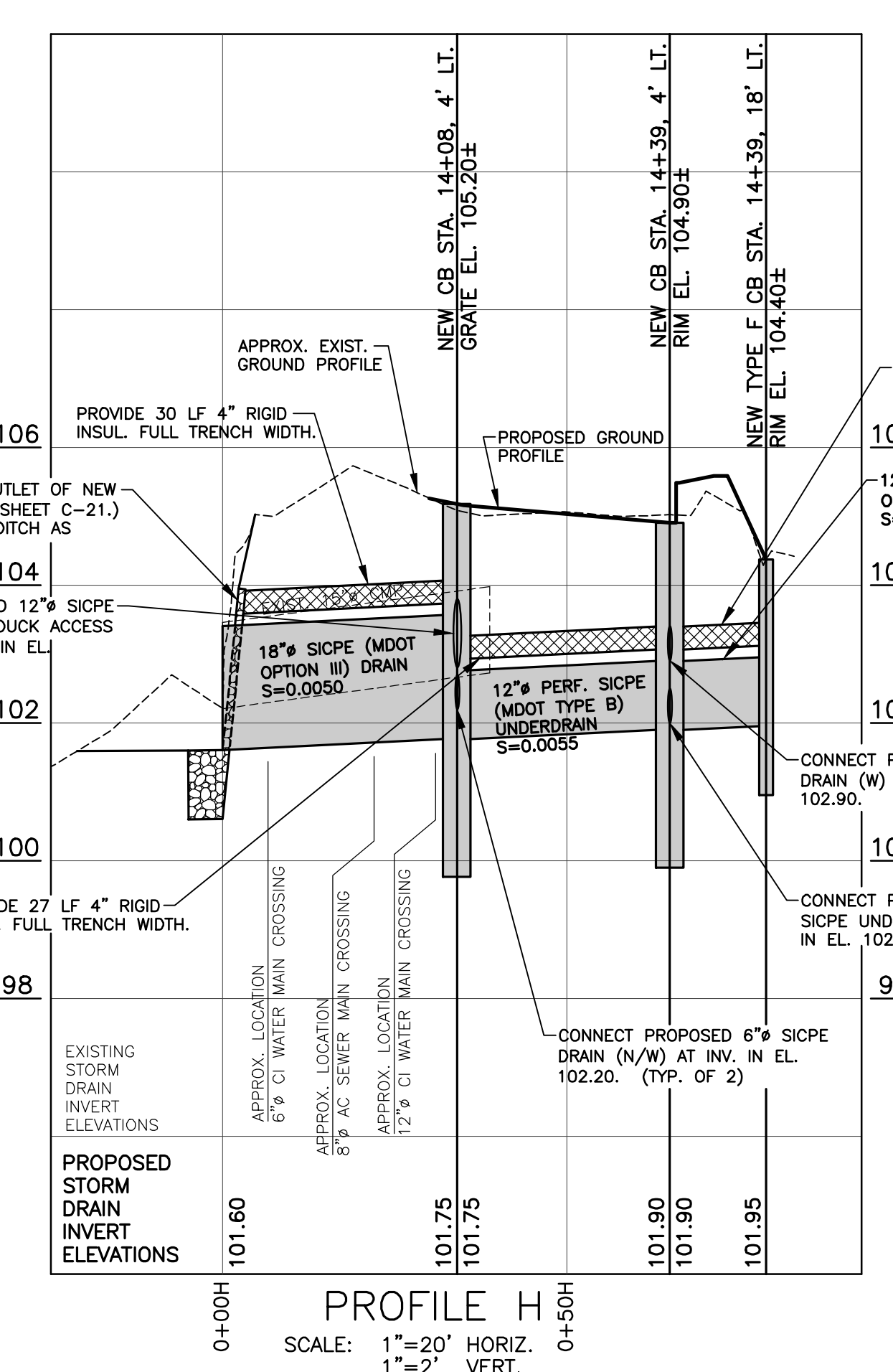
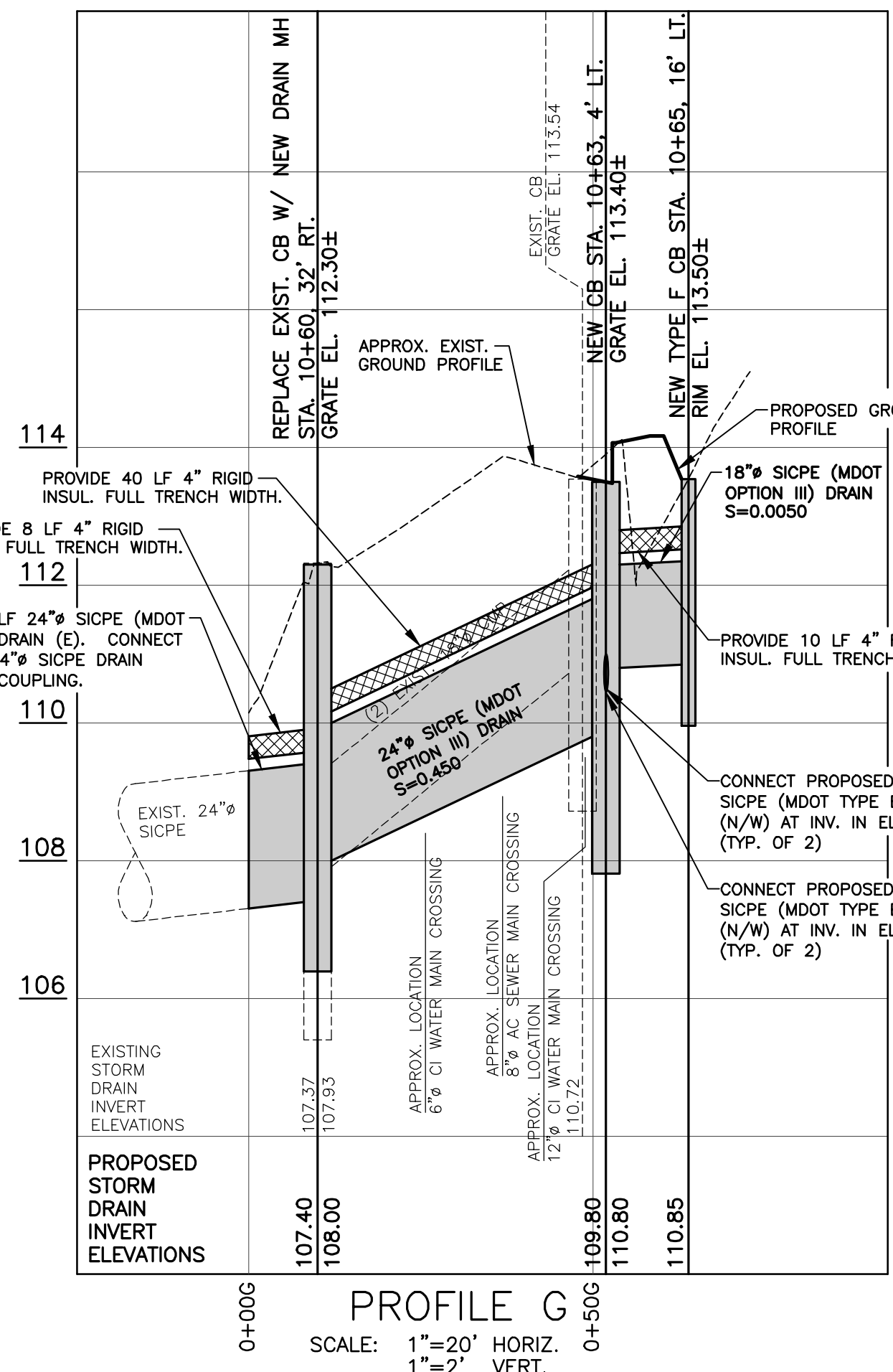
MAY, 2022	MISC. REVISIONS PER MDT COMMENTS
DATE	ADDITION OR REVISION
DES. BY: EWH	DR. BY: FLE
	CK. BY: AH
TOWN OF SOUTHWEST HARBOR, MAINE	
MAIN STREET SIDEWALK, DRAINAGE, WATER, AND SEWER IMPROVEMENTS	
<b>DRAINAGE IMPROVEMENTS PLAN &amp; PROFILE</b>	
SCALE: AS NOTED	PROJECT NO.: 1356
DATE: MAY, 2022	SHEET: C-12



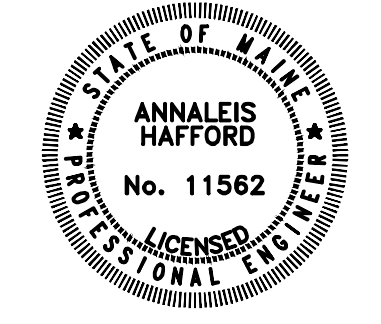
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PLAN  
SCALE: 1"=20'

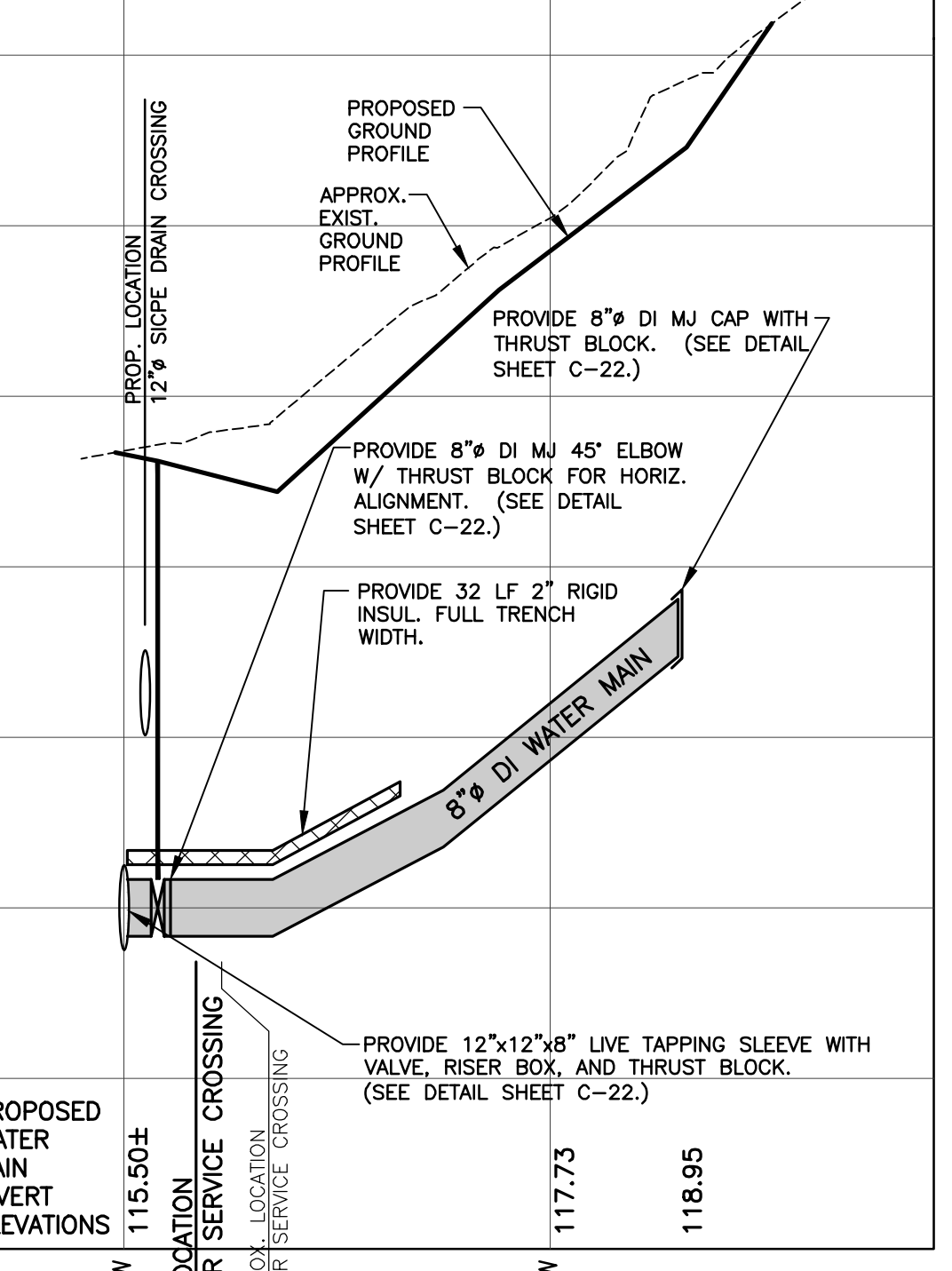
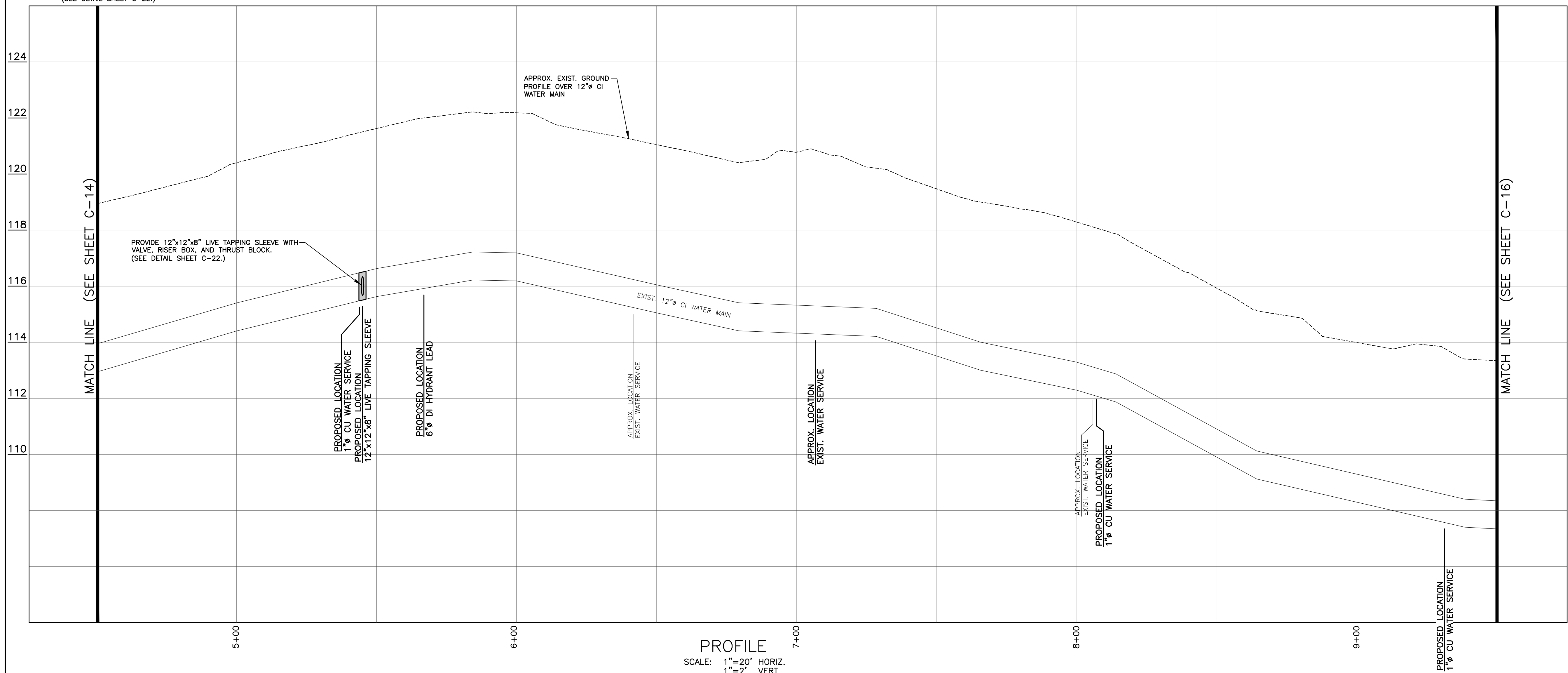
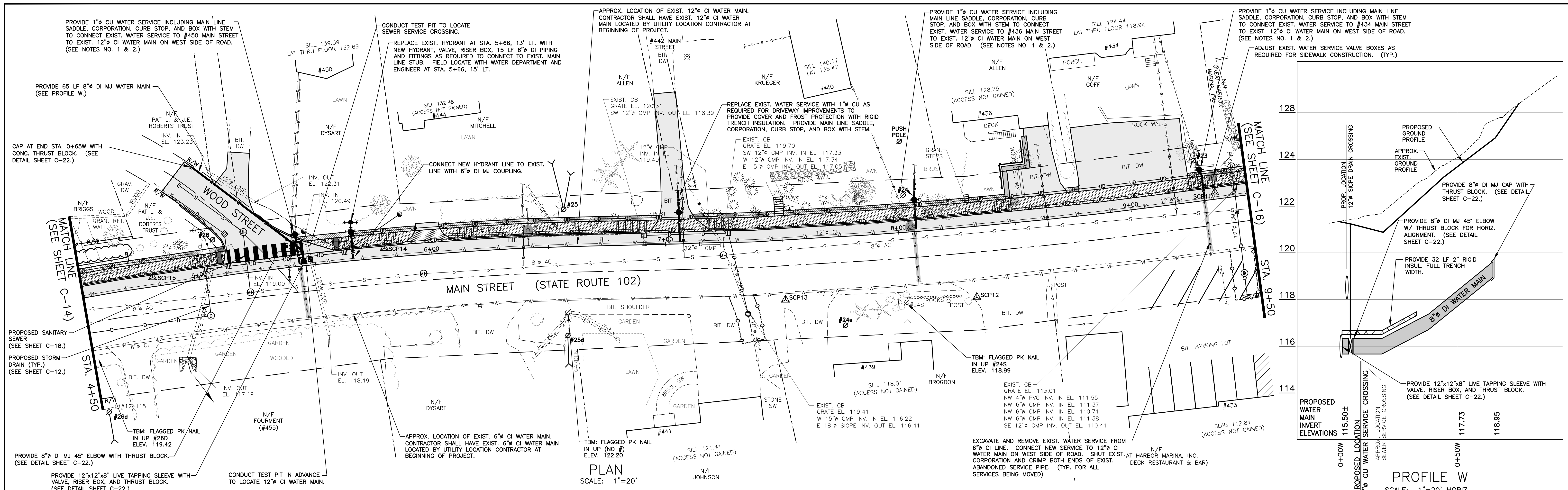


- NOTES:**
- 1) IF CONTRACTOR DISTURBS OR REQUIRES REMOVAL OF EXISTING PROPERTY PIN TO COMPLETE WORK, REMOVAL AND RESETTING SHALL BE BY A LICENSED SURVEYOR.
  - 2) REMOVE AND RESET ALL SIGNS AND ASSOCIATED SIGNAGE SITE FEATURES AS REQUIRED TO CONDUCT DRAINAGE IMPROVEMENTS.
  - 3) PROVIDE ROUND DITCH FRAME AND GRATE.
  - 4) DESIGN INTENT IS TO PROVIDE 4" HMA COURSE PAVEMENT IN SHOULDER AREAS AND 6" HMA COURSE PAVEMENT IN TRAVEL LANES.
  - 5) ALL REGULATORY SIGNS MUST BE MAINTAINED IN PLACE AT ALL TIMES EVEN IF WITH TEMPORARY SUPPORT.



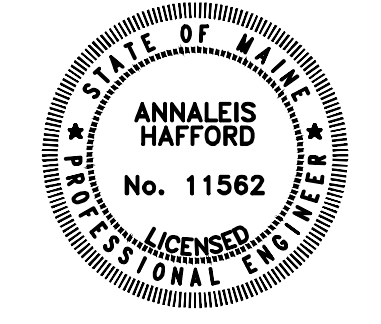
<b>OLVER ASSOCIATES INC.</b> ENVIRONMENTAL ENGINEERS 290 MAIN STREET WINTERPORT, MAINE	
MAY, 2022	MISC. REVISIONS PER MDOT COMMENTS
DATE	ADDITION OR REVISION
DES. BY: EWH	DR. BY: FLE
	CK. BY: AH
TOWN OF SOUTHWEST HARBOR, MAINE	
MAIN STREET SIDEWALK, DRAINAGE, WATER, AND SEWER IMPROVEMENTS	
<b>DRAINAGE IMPROVEMENTS PLAN &amp; PROFILE</b>	
SCALE: AS NOTED	PROJECT NO.: 1356
DATE: MAY, 2022	SHEET: C-13



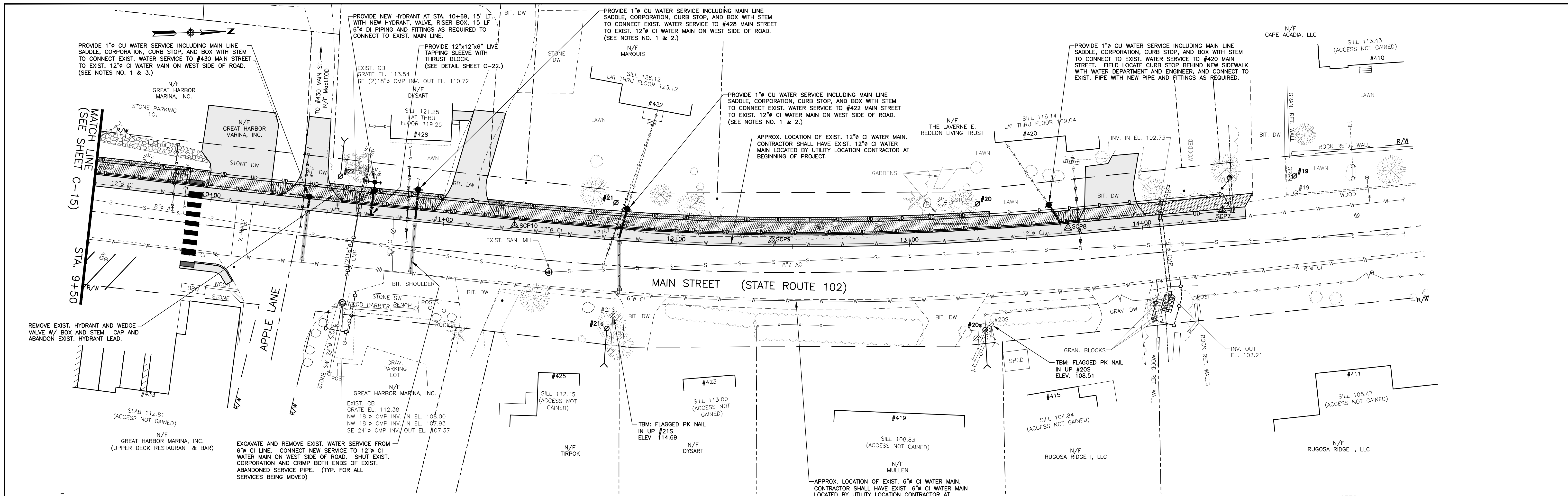


**PROFILE W**  
SCALE: 1"=20' HORIZ.  
1"=2' VERT.

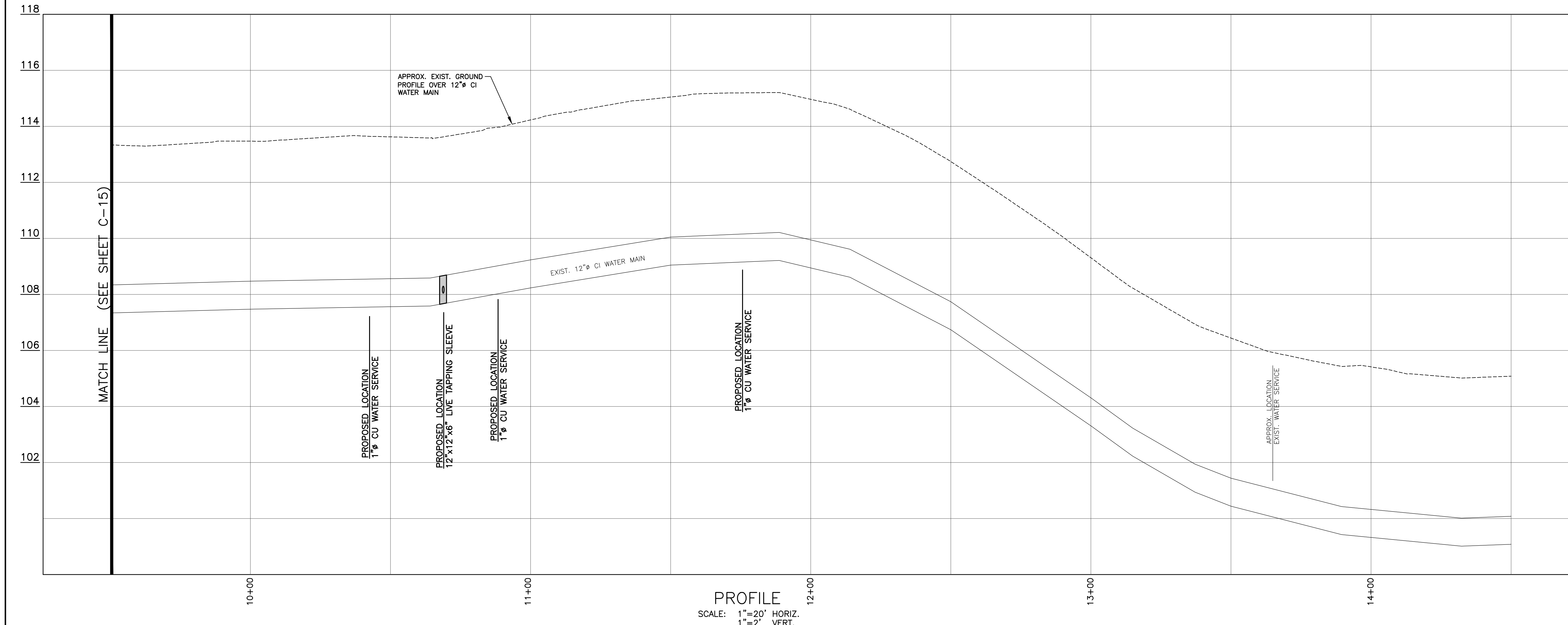
- NOTES:**
- 1) THERE ARE TWO EXISTING WATER MAINS ON MAIN STREET. A 12" CI WATER MAIN ON THE WEST SIDE OF THE ROAD AND A 6" CI WATER MAIN ON THE EAST SIDE OF THE ROAD. DESIGN INTENT IS TO CONNECT EXISTING WATER SERVICES ON THE WEST SIDE OF MAIN STREET THAT ARE CURRENTLY CONNECTED TO THE 6" CI INTO THE 12" CI WATER MAIN. CONTRACTOR SHALL FIELD VERIFY ALL WATER SERVICE CONNECTIONS TO EXISTING MAIN LINES AT BEGINNING OF PROJECT TO DETERMINE WHICH SERVICES NEED TO BE RELOCATED.
  - 2) CONNECT EXISTING WATER SERVICE TO 12" WATER MAIN ON WEST SIDE OF MAIN STREET WITH NEW CORPORATION, NEW CURB STOP AND BOX, AND NEW COPPER PIPE AND FITTINGS AS REQUIRED TO CONNECT TO EXISTING SERVICE AT BACK SIDE OF NEW DRIVEWAY. FIELD LOCATE NEW CURB STOP AND BOX BEHIND NEW SIDEWALK WITH DISTRICT AND ENGINEER.
  - 3) PROVIDE NEW CORPORATION, NEW CURB STOP AND BOX, AND NEW COPPER PIPE AND FITTINGS AS REQUIRED TO CONNECT TO EXISTING BUILDING SERVICE. ADJUST NEW CURB BOX TO NEW DRIVEWAY APRON GRADE.
  - 4) DESIGN INTENT IS TO PROVIDE 4" HMA COURSE PAVEMENT IN SHOULDER AREAS AND ON WOOD STREET AND 6" HMA COURSE PAVEMENT IN TRAVEL LANES.
  - 5) ALL REGULATORY SIGNS MUST BE MAINTAINED IN PLACE AT ALL TIMES EVEN IF WITH TEMPORARY SUPPORT.



<b>OLVER ASSOCIATES INC.</b> ENVIRONMENTAL ENGINEERS 200 MAIN STREET WINTERPORT, MAINE	
MAY, 2022	MISC. REVISIONS PER MDOT COMMENTS
DATE	ADDITION OR REVISION
DES. BY: EWH	DR. BY: FLE
CK. BY: AH	
TOWN OF SOUTHWEST HARBOR, MAINE	
MAIN STREET SIDEWALK, DRAINAGE, WATER, AND SEWER IMPROVEMENTS	
<b>WATER IMPROVEMENTS PLAN &amp; PROFILE</b>	
SCALE: AS NOTED	PROJECT NO.: 1356
DATE: MAY, 2022	SHEET: C-15

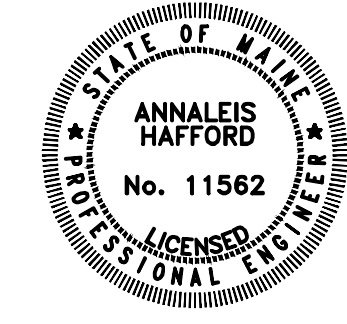


PLAN  
SCALE: 1"=20'



PROFILE  
SCALE: 1"=20' HORIZ.  
1"=2' VERT.

- NOTES:**
- 1) THERE ARE TWO EXISTING WATER MAINS ON MAIN STREET. A 12" CI WATER MAIN ON THE WEST SIDE OF THE ROAD AND A 6" CI WATER MAIN ON THE EAST SIDE OF THE ROAD. DESIGN INTENT IS TO CONNECT EXISTING WATER SERVICES ON THE WEST SIDE OF MAIN STREET THAT ARE CURRENTLY CONNECTED TO THE 6" CI INTO THE 12" CI WATER MAIN. CONTRACTOR SHALL FIELD VERIFY ALL WATER SERVICE CONNECTIONS TO EXISTING MAIN LINES AT BEGINNING OF PROJECT TO DETERMINE WHICH SERVICES NEED TO BE RELOCATED.
  - 2) CONNECT EXISTING WATER SERVICE TO 12" WATER MAIN ON WEST SIDE OF MAIN STREET WITH NEW CORPORATION, NEW CURB STOP AND BOX, AND NEW COPPER PIPE AND FITTINGS AS REQUIRED TO CONNECT TO EXISTING SERVICE AT BACK SIDE OF NEW DRIVEWAY. FIELD LOCATE NEW CURB STOP AND BOX BEHIND NEW SIDEWALK WITH DISTRICT AND ENGINEER.
  - 3) PROVIDE NEW CORPORATION, NEW CURB STOP AND BOX, AND NEW COPPER PIPE AND FITTINGS AS REQUIRED TO CONNECT TO EXISTING BUILDING SERVICE. ADJUST NEW CURB BOX TO NEW DRIVEWAY APRON GRADE.
  - 4) DESIGN INTENT IS TO PROVIDE 4" HMA COURSE PAVEMENT IN SHOULDER AREAS AND 6" HMA COURSE PAVEMENT IN TRAVEL LANES.
  - 5) ALL REGULATORY SIGNS MUST BE MAINTAINED IN PLACE AT ALL TIMES EVEN IF WITH TEMPORARY SUPPORT.



**OLVER ASSOCIATES INC.**  
ENVIRONMENTAL ENGINEERS  
290 MAIN STREET WINTERPORT, MAINE

MAY, 2022	MISC. REVISIONS PER MDOT COMMENTS
DATE	ADDITION OR REVISION
DES. BY: EWH	DR. BY: FLE
CK. BY: AH	

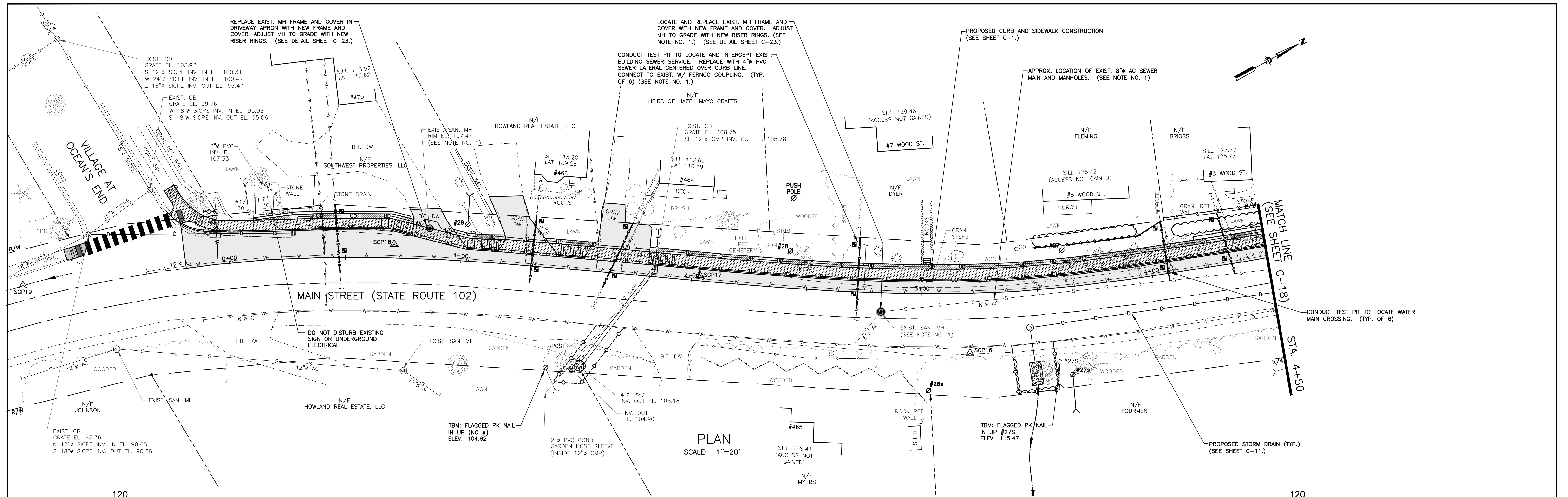
TOWN OF SOUTHWEST HARBOR, MAINE

MAIN STREET SIDEWALK, DRAINAGE, WATER, AND SEWER IMPROVEMENTS

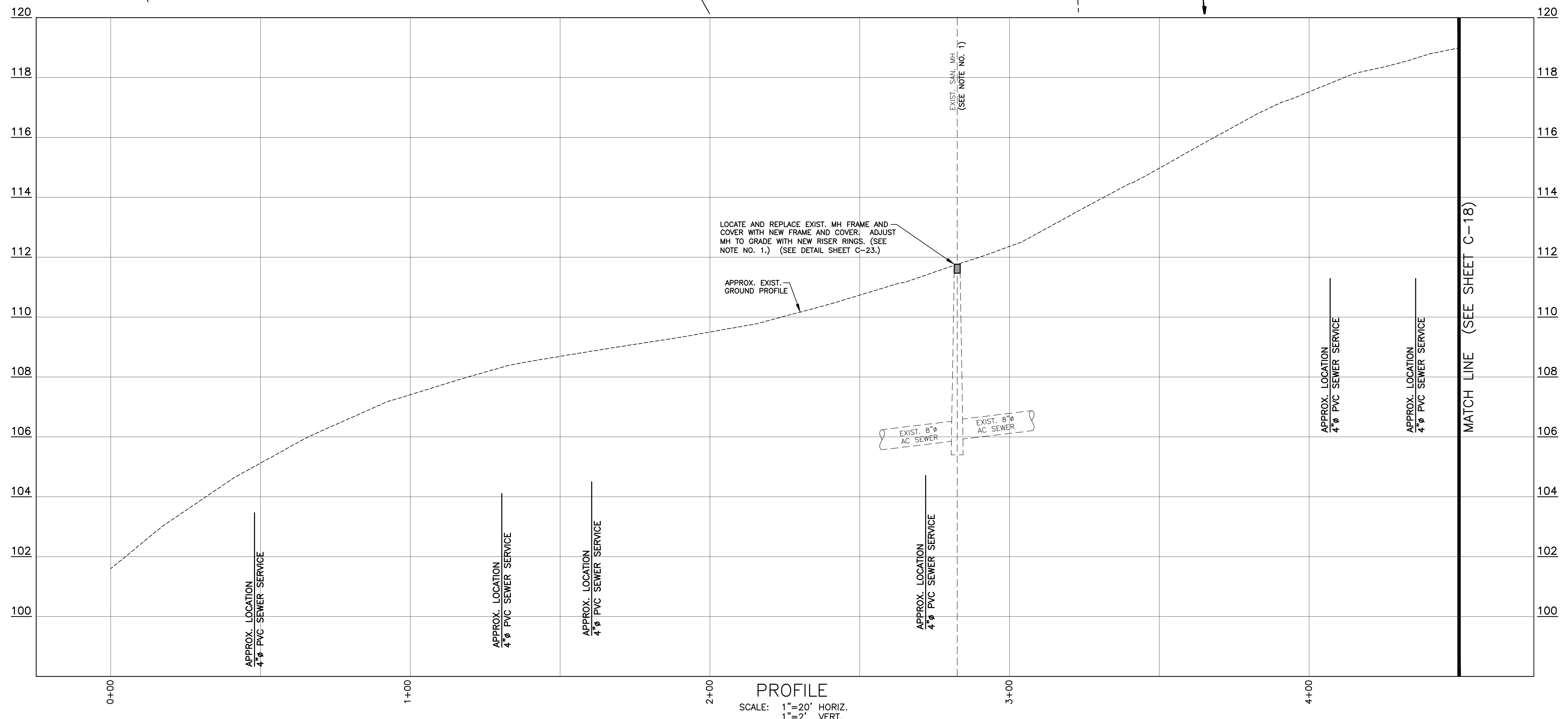
**WATER IMPROVEMENTS PLAN & PROFILE**

SCALE: AS NOTED	PROJECT NO.: 1356
DATE: MAY, 2022	SHEET: C-16

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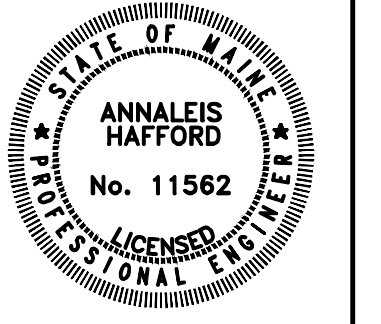


PLAN  
SCALE: 1"=20'



PROFILE  
SCALE: 1"=20' HORIZ.  
1"=2' VERT.

- NOTES:
- 1) APPROX. LOCATION OF EXIST. 8" AC SEWER MAIN, MANHOLES, AND SERVICES. CONTRACTOR SHALL HAVE EXIST. 8" AC SEWER MAIN AND MANHOLES LOCATED BY UTILITY LOCATION CONTRACTOR AT BEGINNING OF PROJECT. VIDEO INSPECTION OF SEWER MAIN IS REQUIRED TO DETERMINE LOCATION AND NUMBER OF SEWER SERVICES CROSSING THE PROJECT AREA. DESIGN INTENT IS TO REPLACE ALL SEWER SERVICES UNDER NEW SIDEWALK, CURB, STONE UNDERDRAIN, AND SHOULDER RECONSTRUCTION.
  - 2) EXTEND NEW SEWER SERVICE TO RIGHT-OF-WAY TO MAXIMIZE COVER.
  - 3) DESIGN INTENT IS TO PROVIDE 4" HMA COURSE PAVEMENT IN SHOULDER AREAS AND 6" HMA COURSE PAVEMENT IN TRAVEL LANES.
  - 4) ALL REGULATORY SIGNS MUST BE MAINTAINED IN PLACE AT ALL TIMES EVEN IF WITH TEMPORARY SUPPORT.

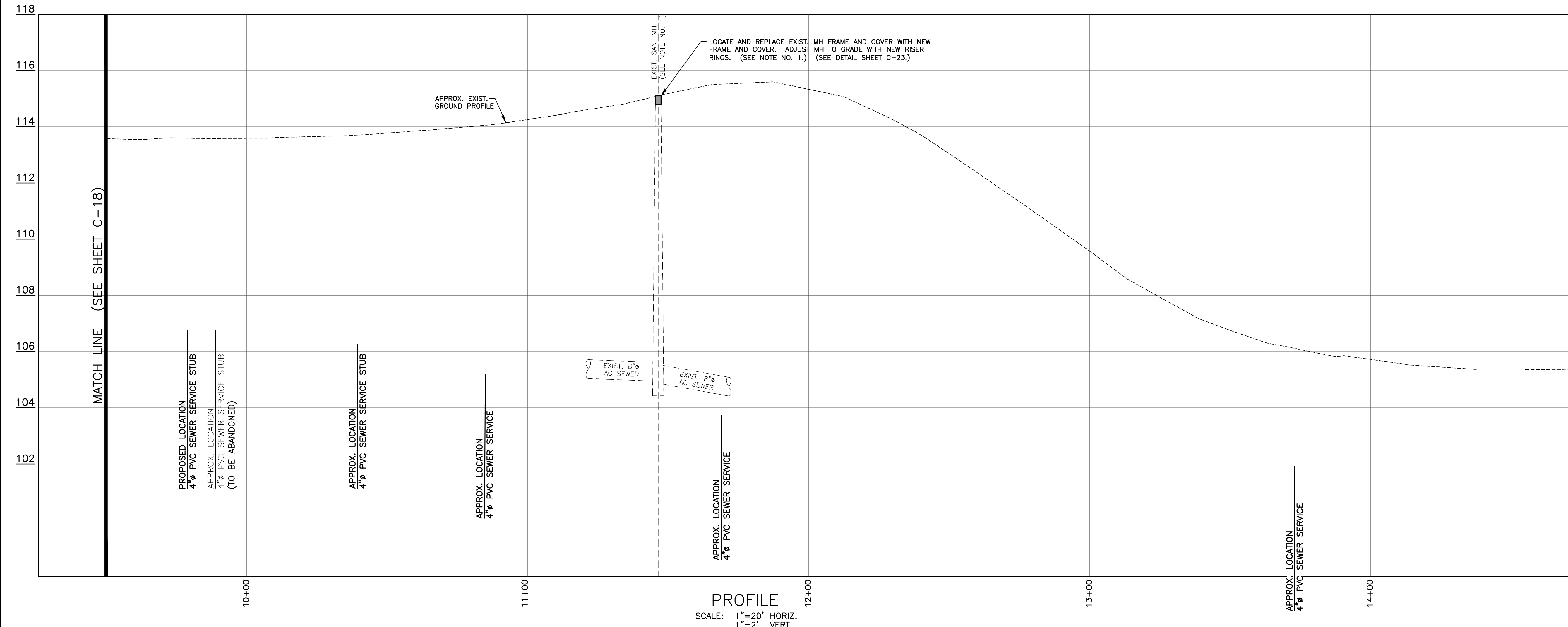
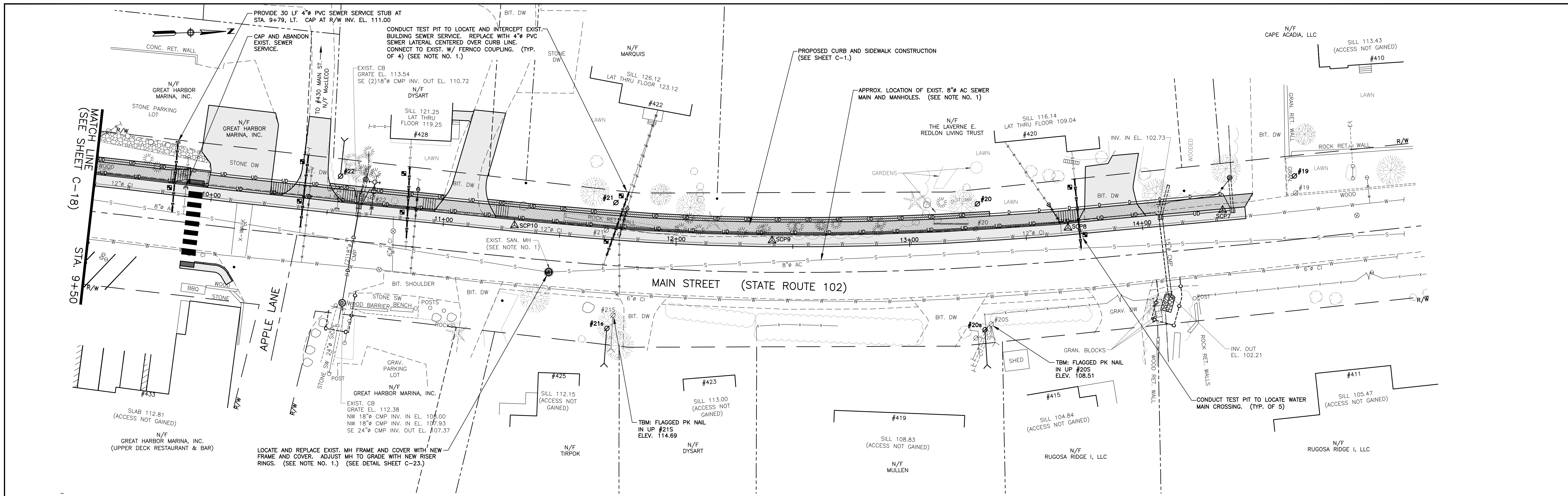


**OLVER ASSOCIATES INC.**  
ENVIRONMENTAL ENGINEERS  
280 MAIN STREET WINTERPORT, MAINE

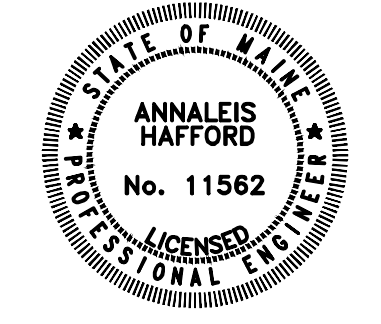
MAY, 2022	MISC. REVISIONS PER MDT COMMENTS
DATE	ADDITION OR REVISION
DES. BY: NWD/EWH	DR. BY: NWD
	CK. BY: AH
TOWN OF SOUTHWEST HARBOR, MAINE	
MAIN STREET SIDEWALK, DRAINAGE, WATER, AND SEWER IMPROVEMENTS	
<b>SEWER IMPROVEMENTS PLAN &amp; PROFILE</b>	
SCALE: AS NOTED	PROJECT NO.: 1356
DATE: MAY, 2022	SHEET: C-17

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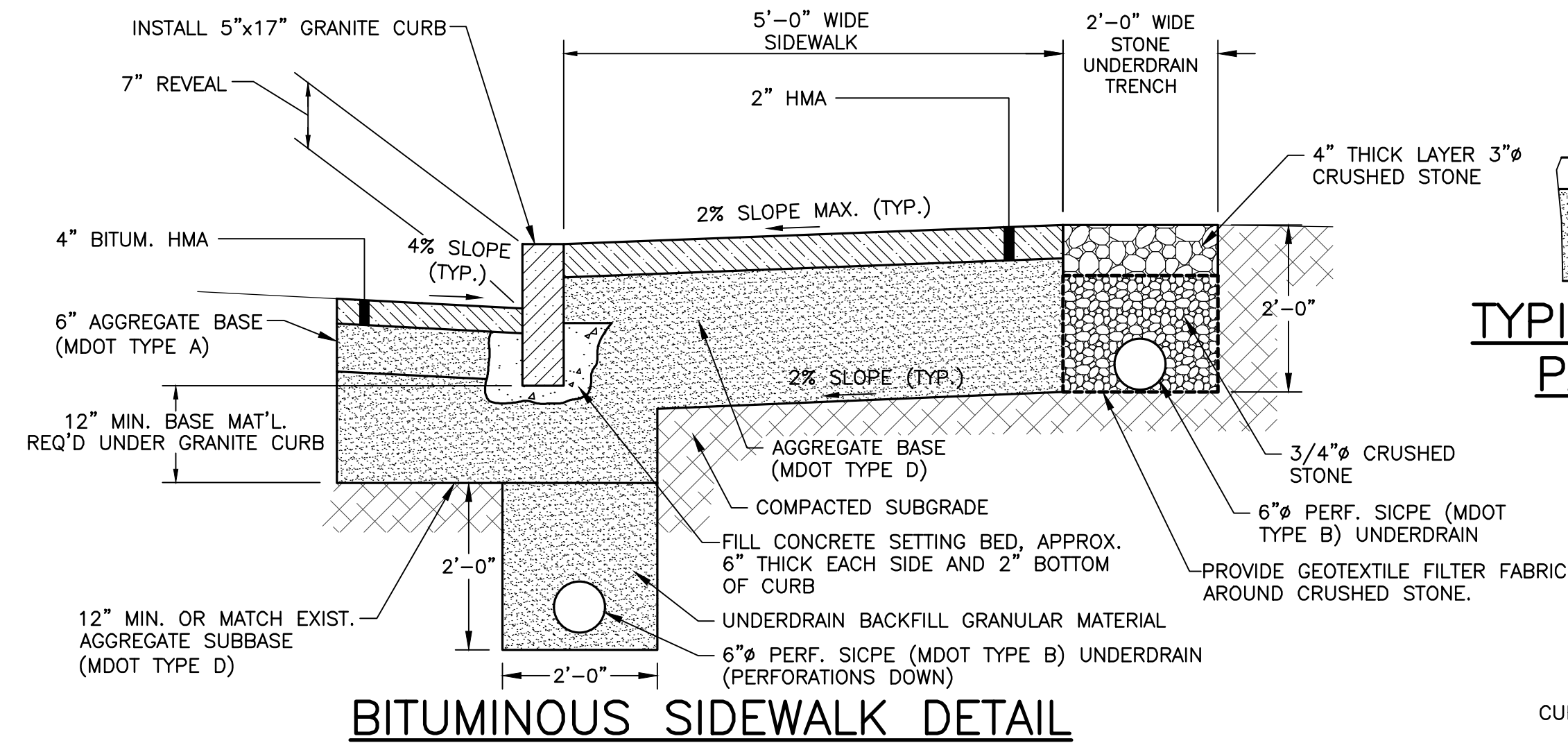
- NOTES:
- APPROX. LOCATION OF EXIST. 8" AC SEWER MAIN, MANHOLES, AND SERVICES. CONTRACTOR SHALL HAVE EXIST. 8" AC SEWER MAIN AND MANHOLES LOCATED BY UTILITY LOCATION CONTRACTOR AT BEGINNING OF PROJECT. VIDEO INSPECTION OF SEWER MAIN IS REQUIRED TO DETERMINE LOCATION AND NUMBER OF SEWER SERVICES CROSSING THE PROJECT AREA. DESIGN INTENT IS TO REPLACE ALL SEWER SERVICES UNDER NEW SIDEWALK, CURB, STONE UNDERDRAIN, AND SHOULDER RECONSTRUCTION.
  - EXTEND NEW SEWER SERVICE TO RIGHT-OF-WAY TO MAXIMIZE COVER.
  - DESIGN INTENT IS TO PROVIDE 4" HMA COURSE PAVEMENT IN SHOULDER AREAS AND 6" HMA COURSE PAVEMENT IN TRAVEL LANES.
  - ALL REGULATORY SIGNS MUST BE MAINTAINED IN PLACE AT ALL TIMES EVEN IF WITH TEMPORARY SUPPORT.



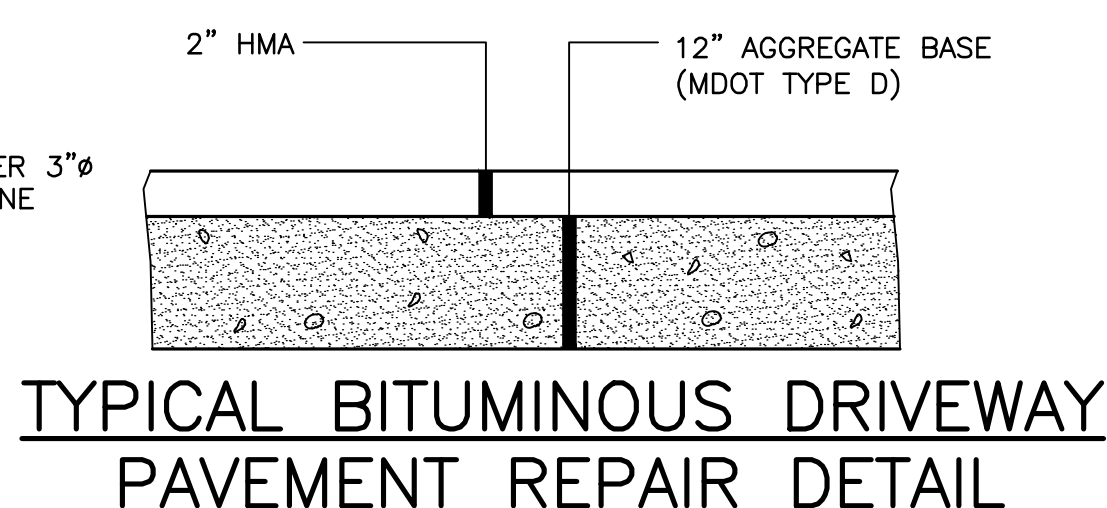
**OLVER ASSOCIATES INC.**  
ENVIRONMENTAL ENGINEERS  
290 MAIN STREET WINTERPORT, MAINE

MAY, 2022	MISC. REVISIONS PER MDOT COMMENTS	
DATE	ADDITION OR REVISION	
DES. BY: NWD/EWH	DR. BY: NWD	CK. BY: AH
TOWN OF SOUTHWEST HARBOR, MAINE		
MAIN STREET SIDEWALK, DRAINAGE, WATER, AND SEWER IMPROVEMENTS		
<b>SEWER IMPROVEMENTS PLAN &amp; PROFILE</b>		
SCALE: AS NOTED	PROJECT NO.: 1356	
DATE: MAY, 2022	SHEET: C-19	

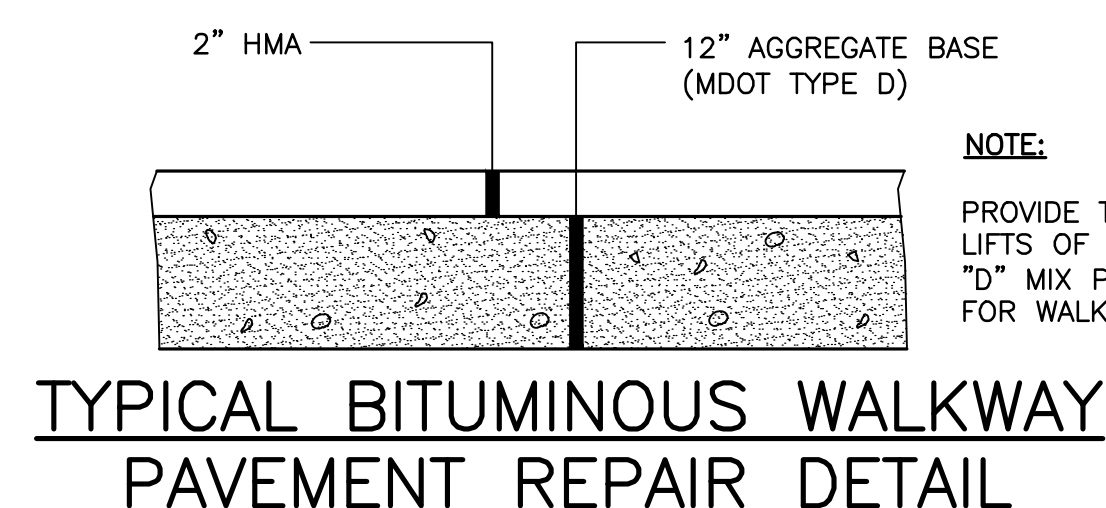
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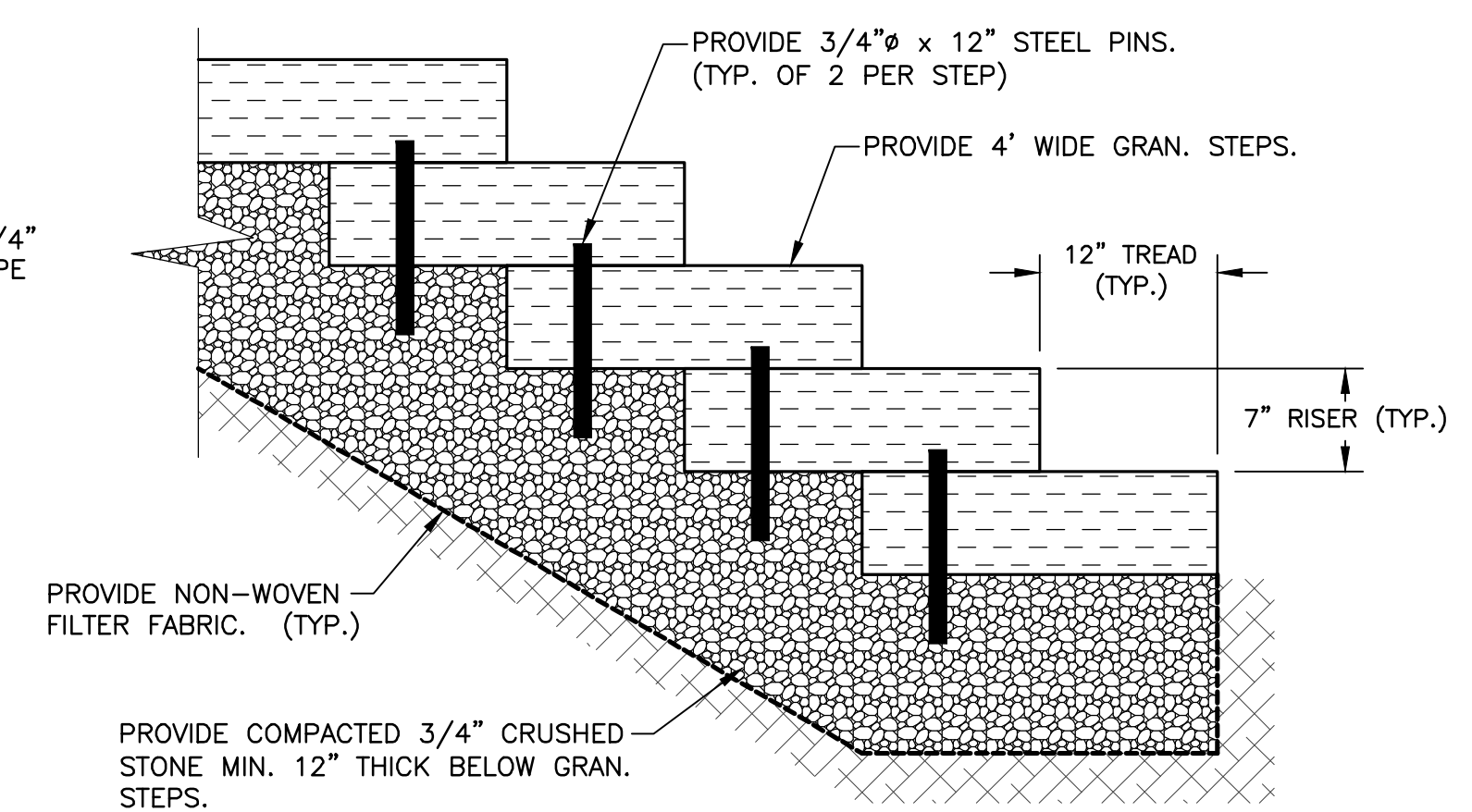
**BITUMINOUS SIDEWALK DETAIL**



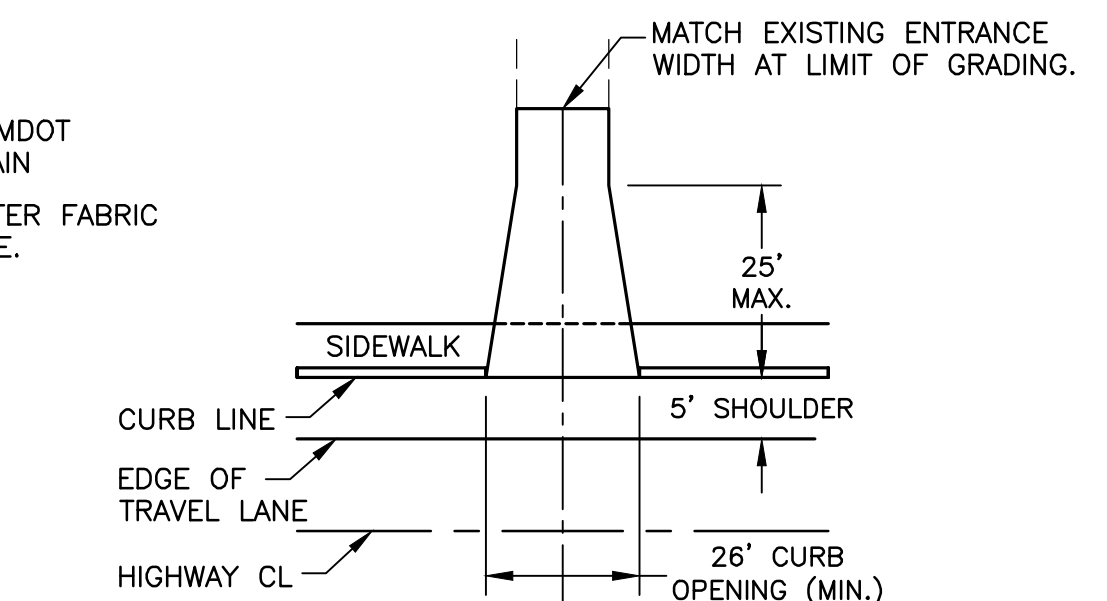
**TYPICAL BITUMINOUS DRIVEWAY PAVEMENT REPAIR DETAIL**



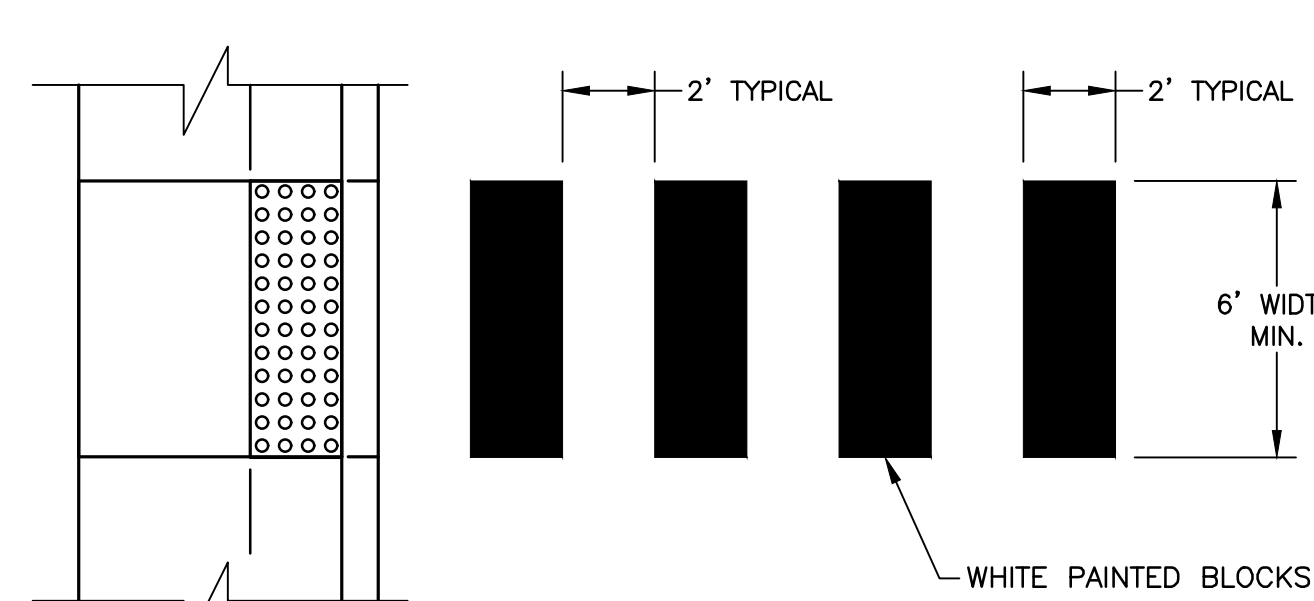
**TYPICAL BITUMINOUS WALKWAY PAVEMENT REPAIR DETAIL**



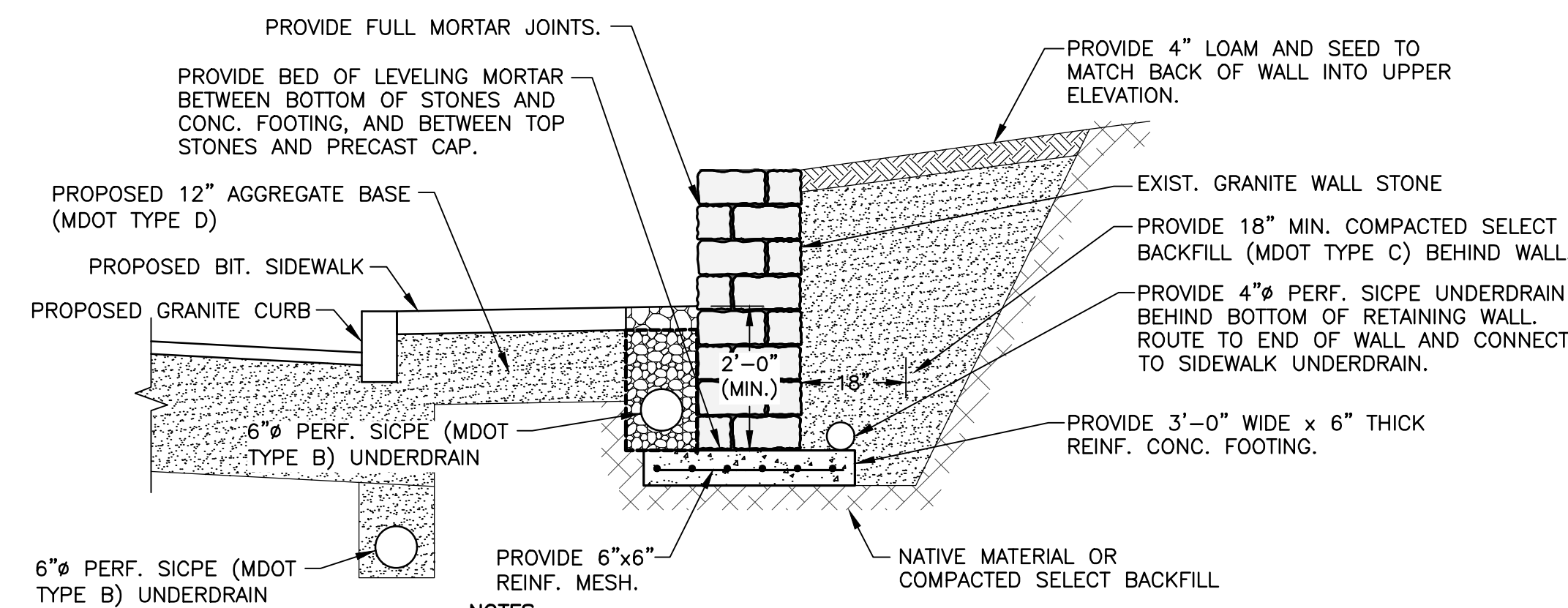
**NEW GRANITE STEPS DETAIL**



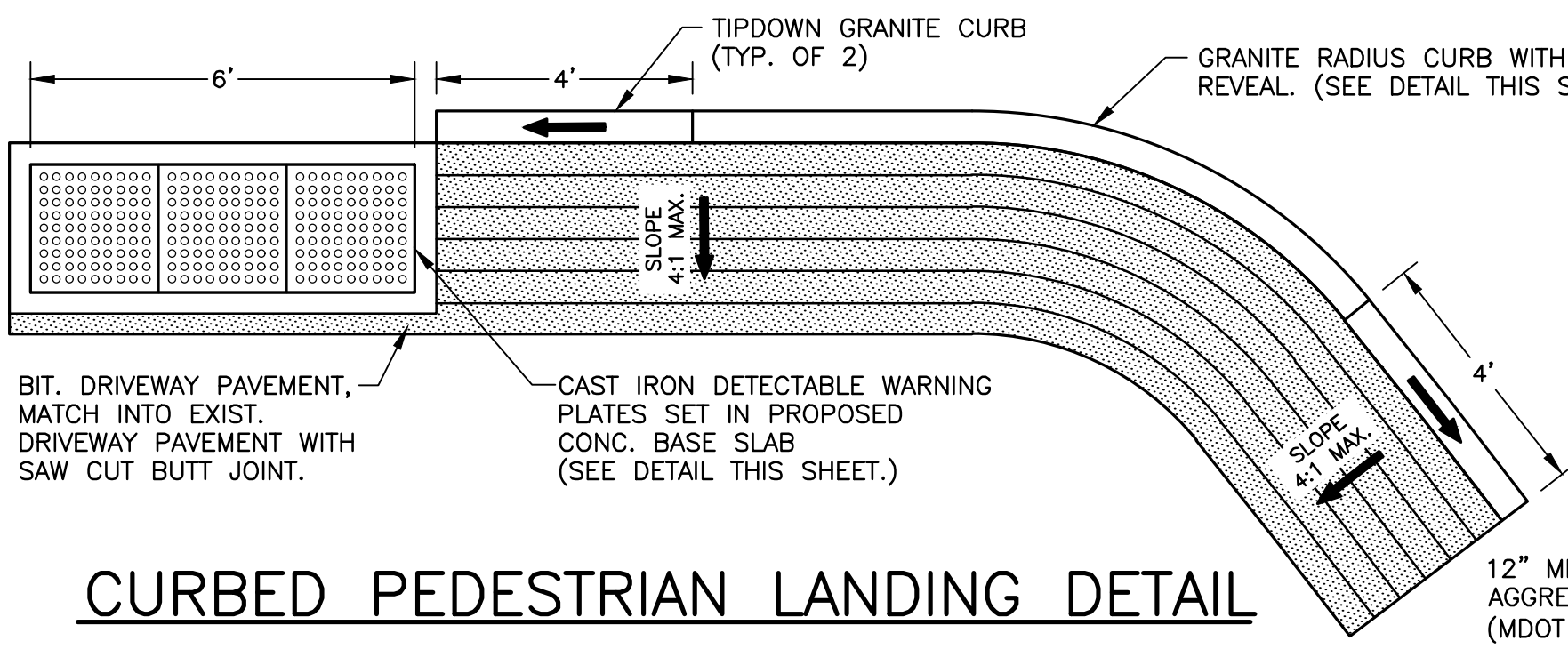
**PAVED RESIDENTIAL ENTRANCE ONTO CURBED HIGHWAY**



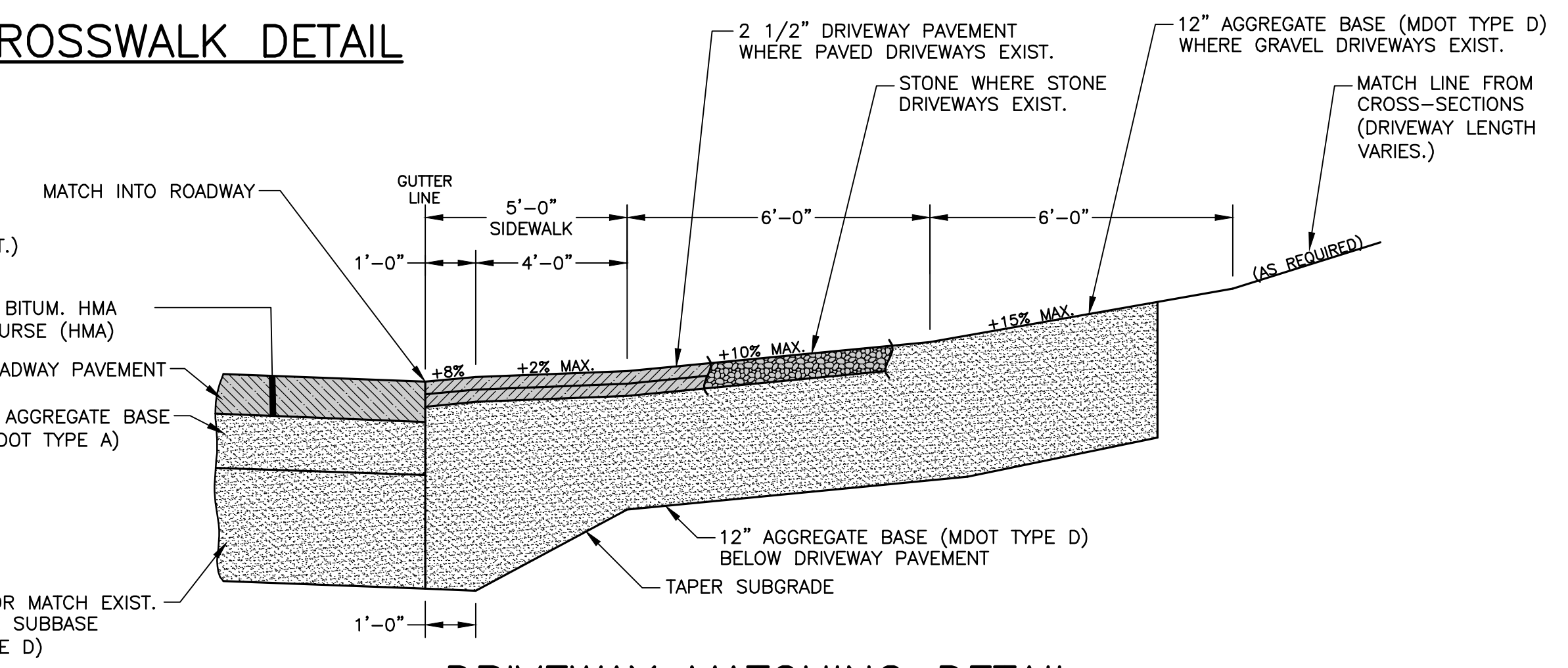
**PAINTED CROSSWALK DETAIL**



**RETAINING WALL DETAIL**

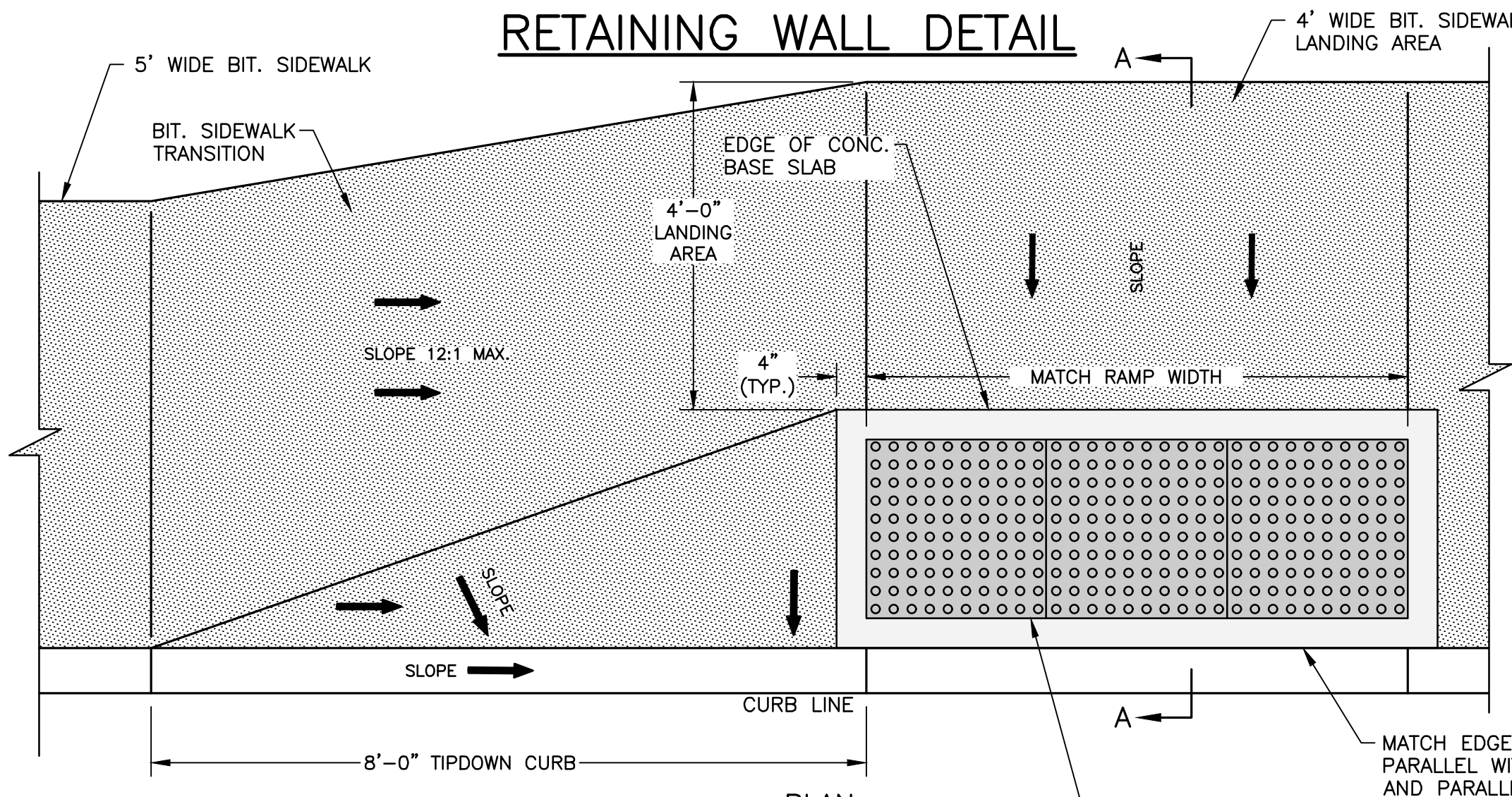


**CURBED PEDESTRIAN LANDING DETAIL**

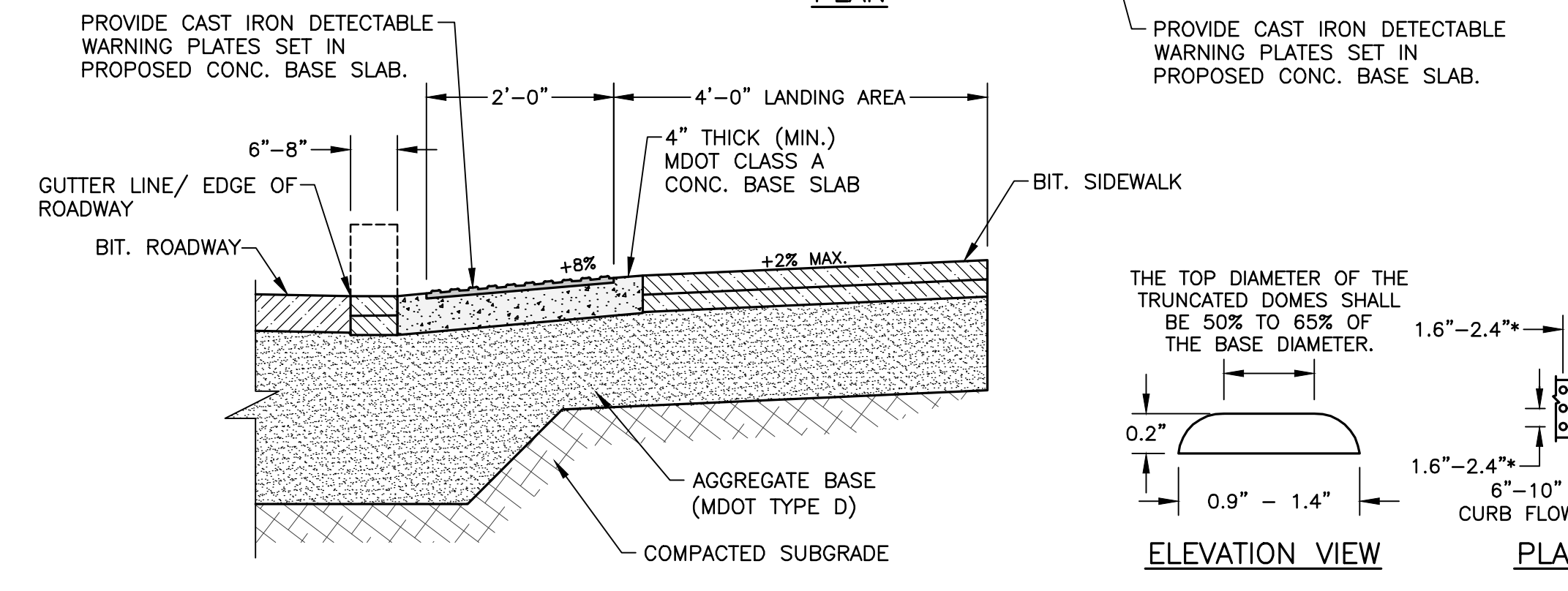


**DRIVEWAY MATCHING DETAIL**

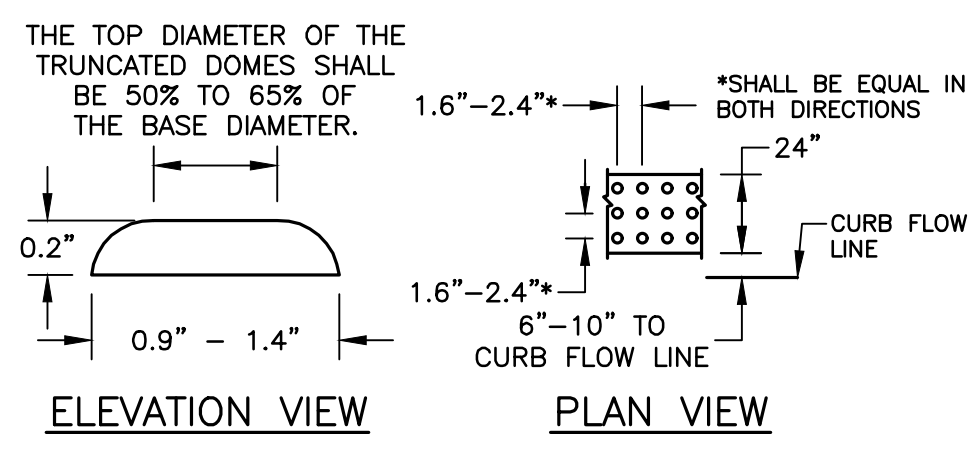
- NOTES:**
- 1) AT DRIVEWAYS, PROVIDE CURB TIPDOWN AND SIDEWALK GRADE TRANSITION TO MATCH DRIVEWAY PAVEMENT.
  - 2) SIDEWALK WIDTH SHALL BE PAVED THRU ALL DRIVEWAYS REGARDLESS OF LENGTH.
  - 3) ALL RESIDENTIAL OR COMMERCIAL DRIVEWAYS 10% AND OVER SHALL BE PAVED.
  - 4) THIS PROFILE IS A GUIDE FOR THE MAJORITY OF CASES, BUT SHOULD BE FIELD CHECKED WHEN THE MAIN LINE GRADE IS STEEP (4% TO 6% OR GREATER) OR THE ANGLE OF APPROACH TO THE ENTRANCE IS UNUSUAL.
  - 5) GENERALLY THE MAJORITY OF ENTRANCES ON A PROJECT WILL BE BUILT WITH FLATTER PROFILES THAN THESE MAXIMUM CASES.
  - 6) WHEN GRADING ENTRANCES THAT ARE FLATTER THAN THE MAXIMUM PROFILES, DO NOT EXCEED A GRADE PERCENT CHANGE OF MORE THAN 9% IN A 6'-0" INCREMENT OF ENTRANCE LENGTH.



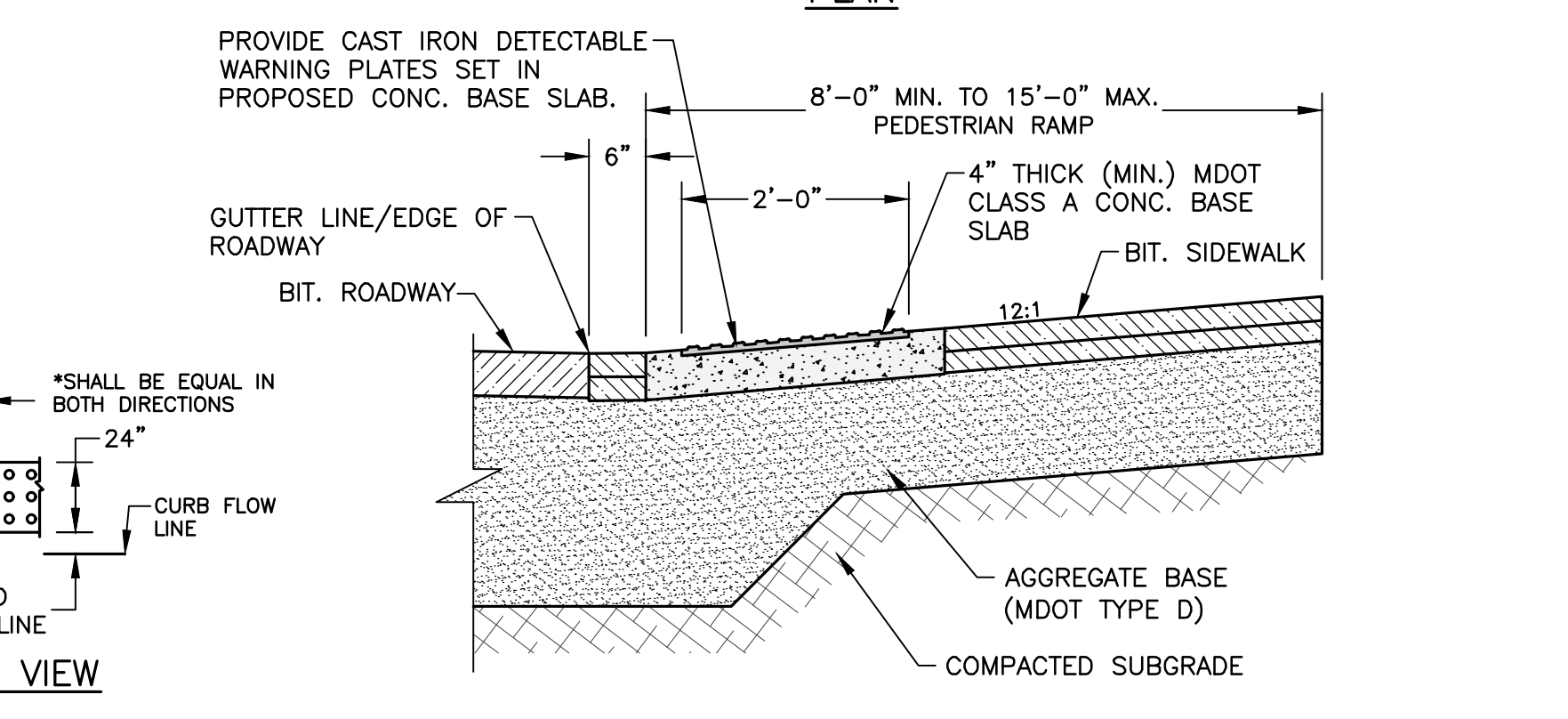
**PEDESTRIAN RAMP/DETECTABLE WARNING FIELD DETAIL**



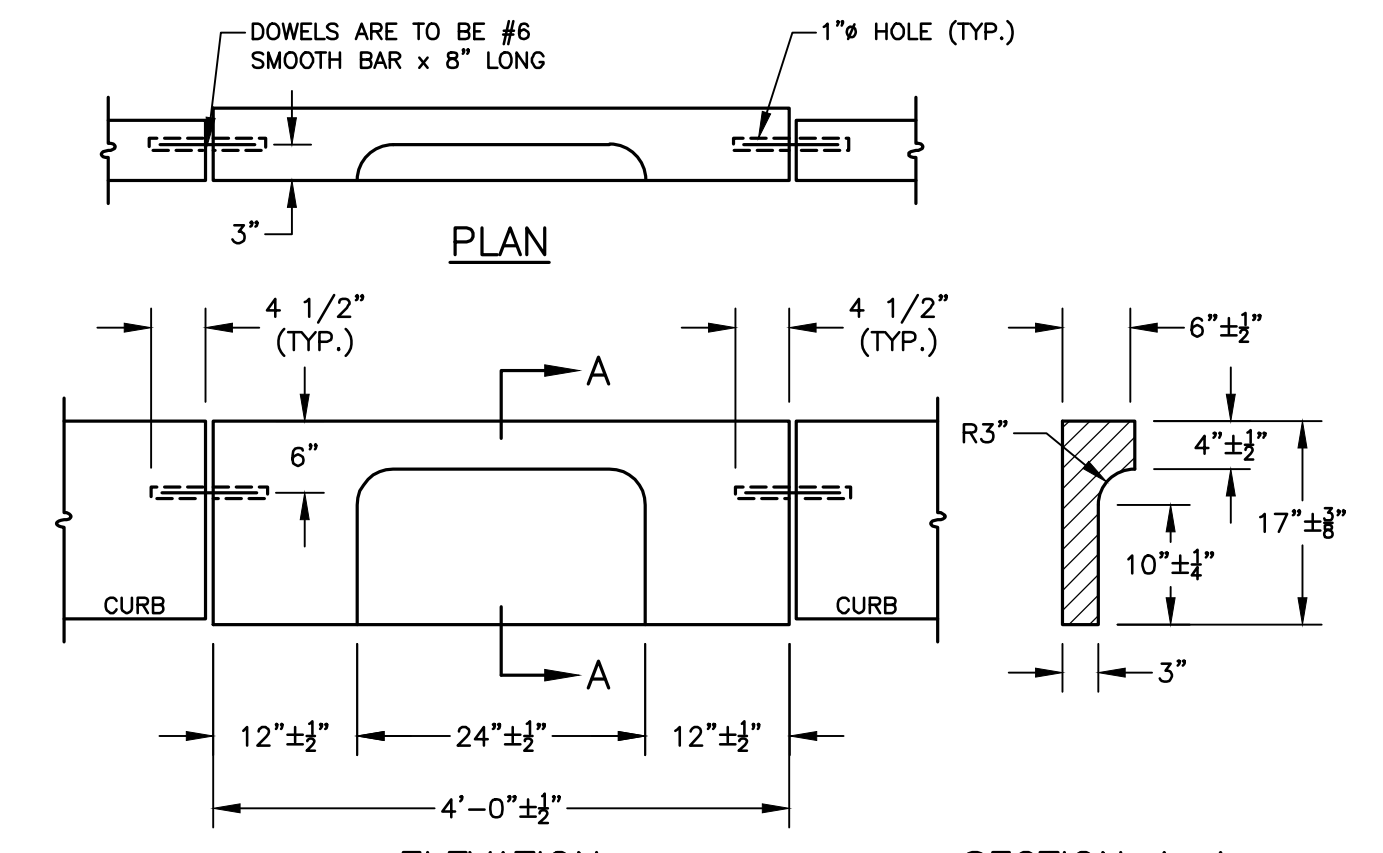
**SECTION A-A**



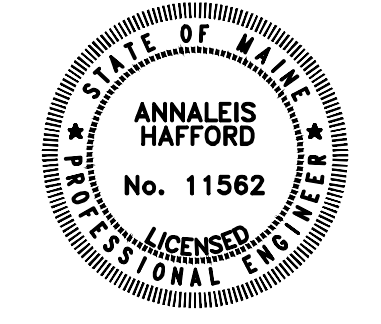
**DOME AND DETECTABLE WARNING DETAILS**



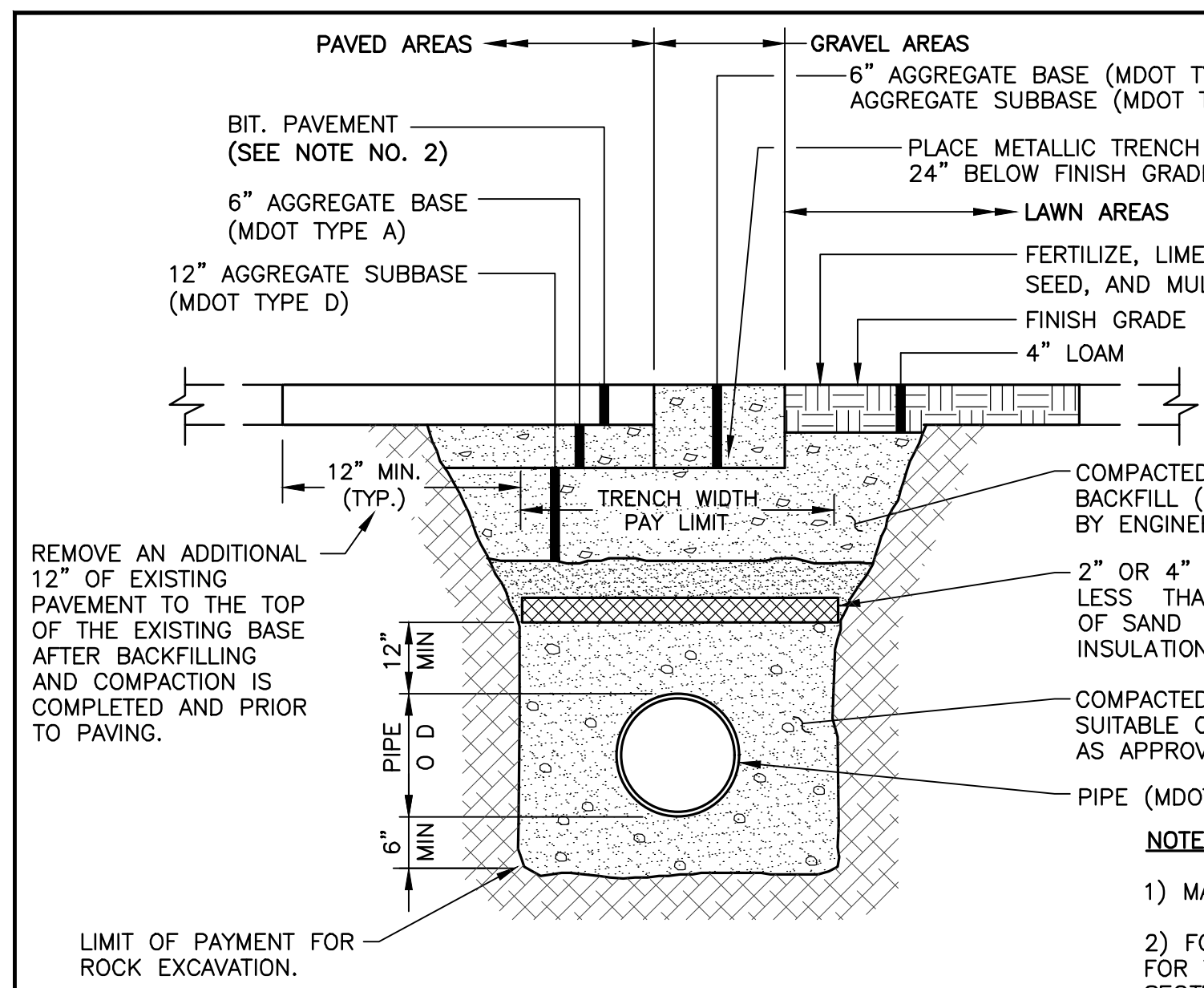
**SECTION B-B**



**CURB INLET DETAIL**



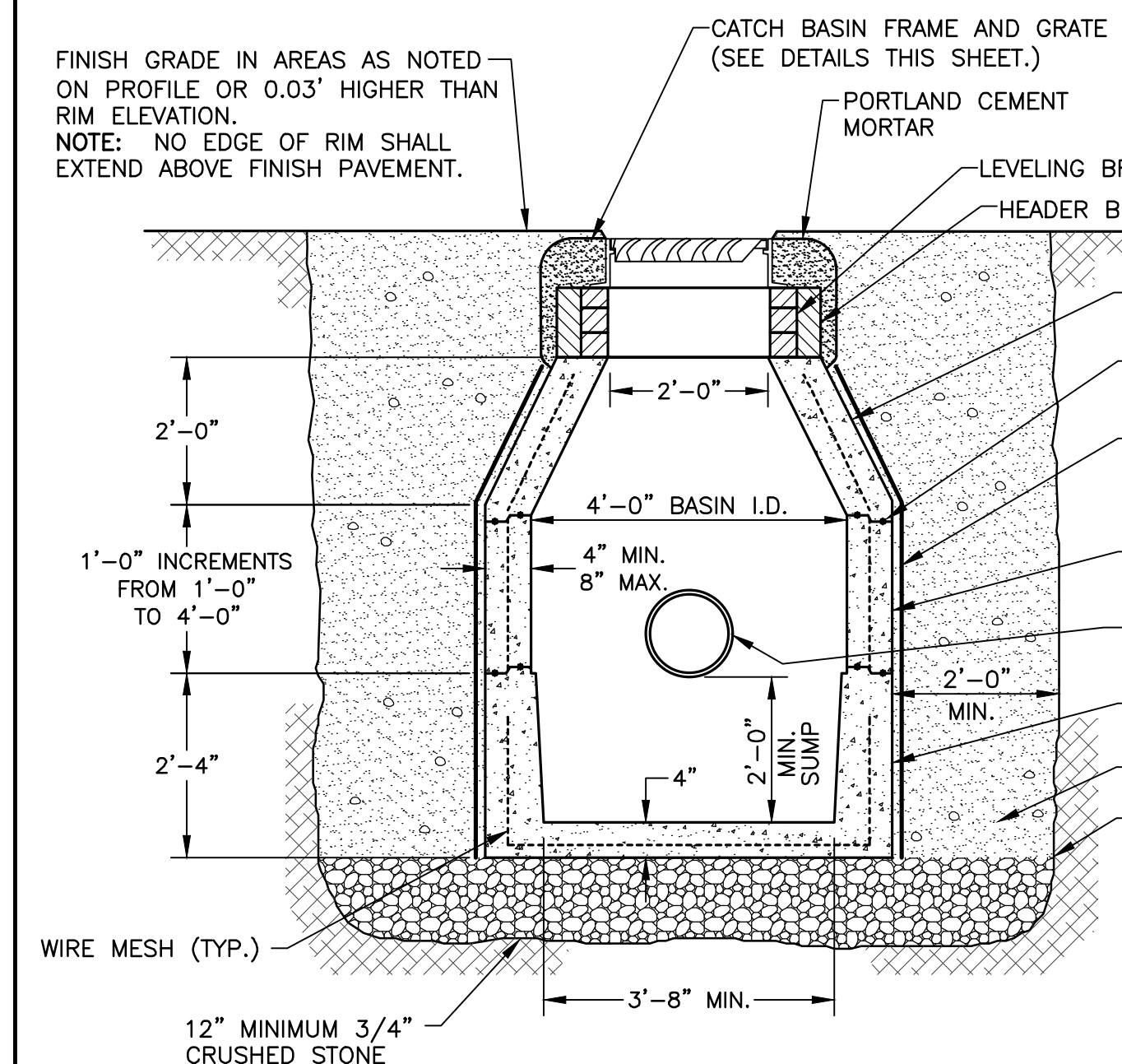
<b>OLVER ASSOCIATES INC.</b> ENVIRONMENTAL ENGINEERS 280 MAIN STREET WINTERPORT, MAINE	
MAY, 2022	MISC. REVISIONS PER MDOT COMMENTS
DATE	ADDITION OR REVISION
DES. BY: NWD/EWH	DR. BY: NWD
CK. BY: AH	
TOWN OF SOUTHWEST HARBOR, MAINE	
MAIN STREET SIDEWALK, DRAINAGE, WATER, AND SEWER IMPROVEMENTS	
<b>CIVIL DETAILS</b>	
SCALE: NONE	PROJECT NO.: 1356
DATE: MAY, 2022	SHEET: C-20



**STORM DRAIN TRENCH DETAIL**

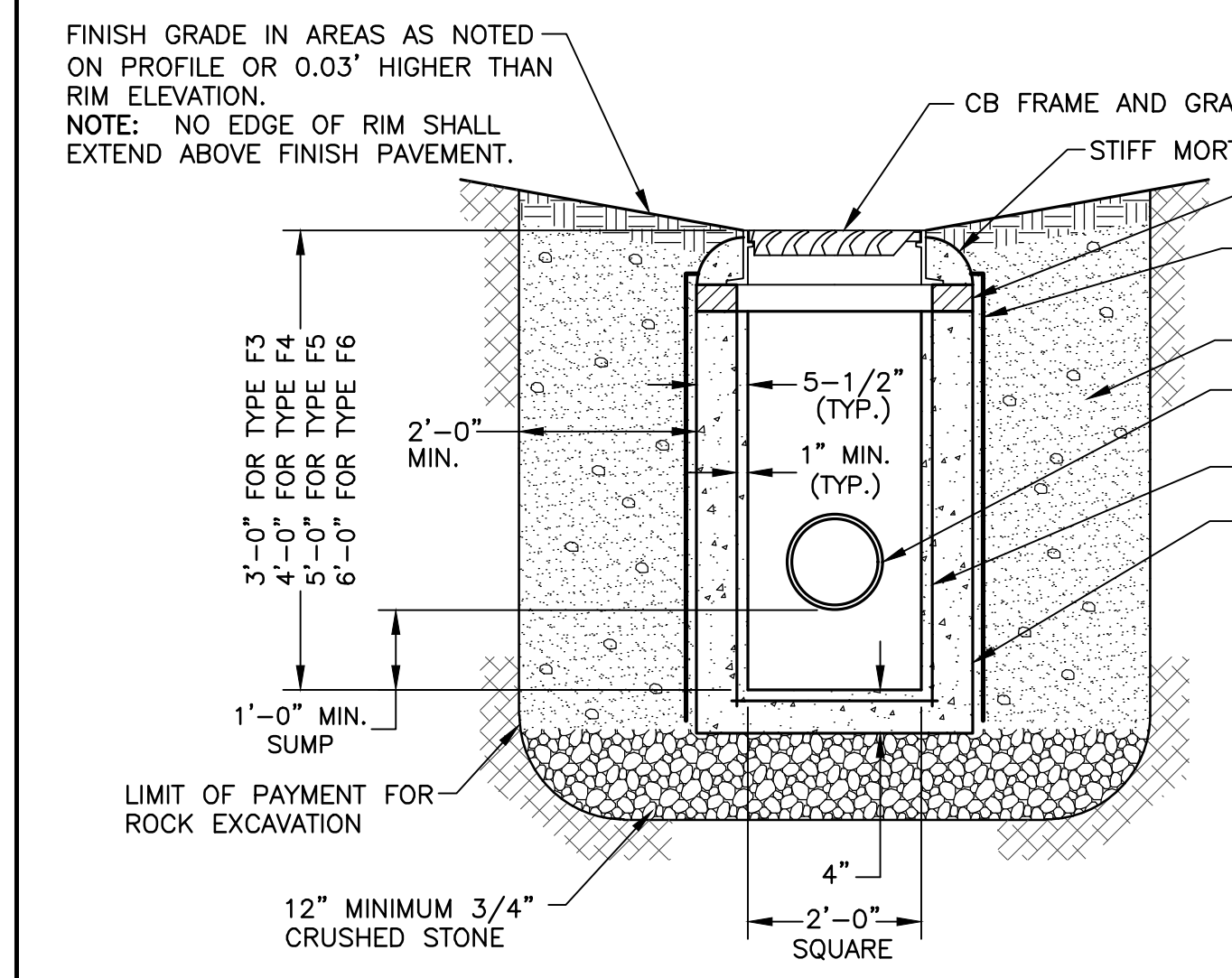
TRENCH WIDTHS/PAY LIMIT	
PIPE SIZE	MAX
15" OR LESS	4'-0"
18"	5'-0"
24"	5'-6"
CATCH BASINS	OD + 4'-0"

- NOTES:**
- 1) MAINTAIN UNIFORM TRENCH WIDTH TO 12" OVER PIPE.
  - 2) FOR SHOULDER AREAS AND WOOD STREET, 4" HMA COURSE REQUIRED. FOR TRAVEL LANE AREAS, 6" HMA REQUIRED. REFER TO SPECIFICATION SECTION 403.
  - 3) TRENCH PAVEMENT PAY LIMIT IS TRENCH WIDTH PLUS 4'-0".
  - 4) DURING EXCAVATION, SEPARATE THE EXISTING ROADBED GRAVEL LAYER FROM THE NATIVE TRENCH EXCAVATION BELOW. REUSE ORIGINAL EXCAVATED NATIVE MATERIALS DURING BACKFILLING IF COMPACTABLE IN THE ORDER THAT THEY WERE REMOVED. THE DESIGN INTENT IS TO MATCH THE EXISTING ROADWAY BASE/SUBBASE MATERIALS.
  - 5) THE FINAL SAW CUTTING OF PAVEMENT TO THE TOP OF THE EXISTING BASE SHALL BE PERFORMED AFTER BACKFILLING AND COMPACTION IS COMPLETE. AFTER SAW CUTTING AND REMOVING AN ADDITIONAL 12" MIN. OF PAVEMENT BEYOND EACH EDGE OF THE TRENCH, THE ENTIRE EXPOSED GRAVEL LAYER SHALL BE ONCE AGAIN COMPACTED, INCLUDING THE UNDISTURBED GRAVEL PORTION, PRIOR TO PAVING.
  - 6) PROVIDE FULL TRAVEL LANE WIDTH PAVEMENT OVER PROPOSED DRAIN FROM ROADWAY CENTERLINE TO EDGE OF PAVEMENT FROM STA. 3+40 TO STA. 5+07.



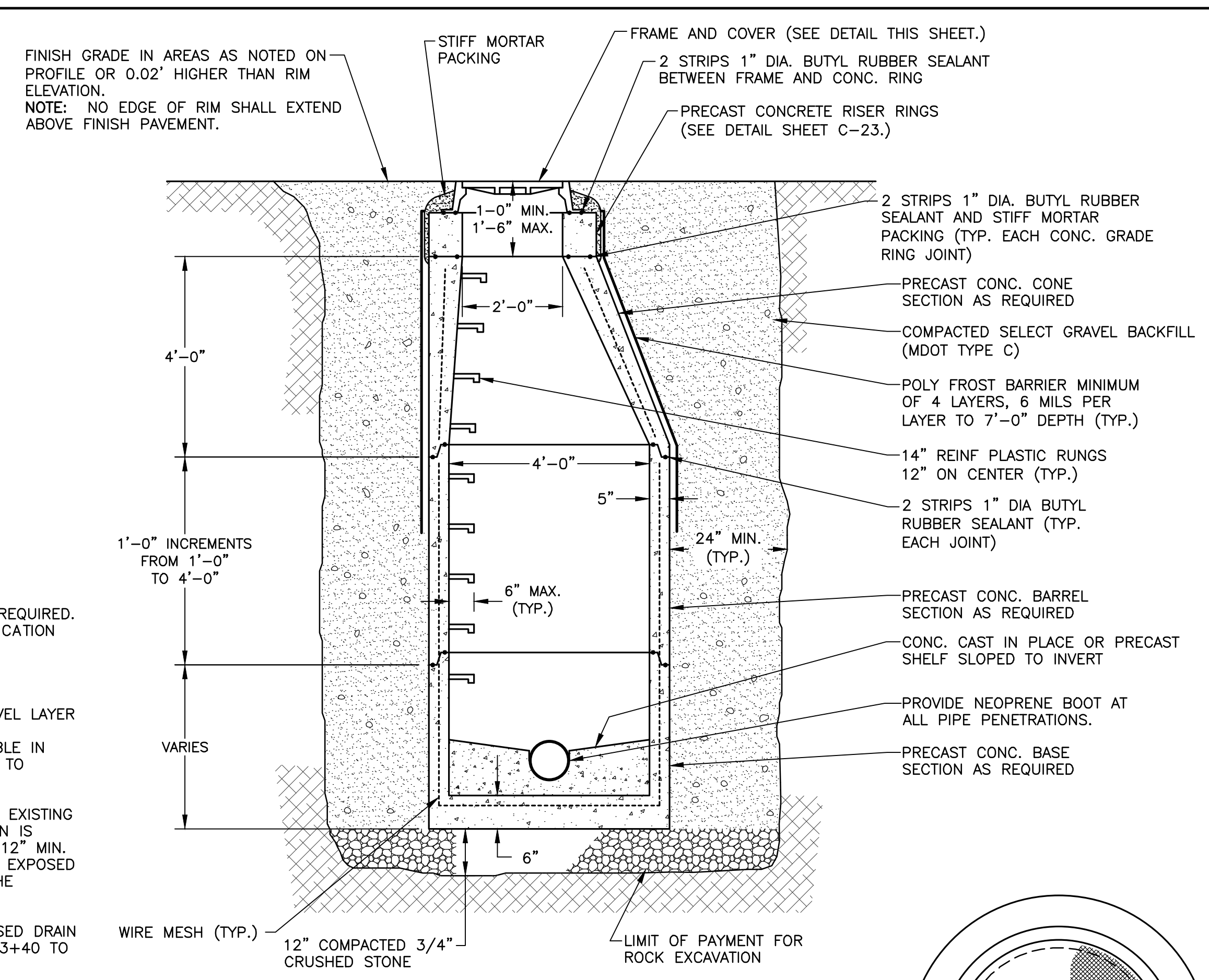
**TYPICAL CATCH BASIN DETAIL**

- NOTES:**
- 1) SEE PROFILE FOR ELEVATIONS OF GRATE RELATIVE TO FINISH GRADES AND SET HEIGHT AS REQUIRED.
  - 2) FRAME HEIGHT MAY VARY TO MEET FINAL GRADE REQUIREMENTS.
  - 3) TRENCH WIDTHS/PAY LIMITS SHALL BE CB O.D. + 4'-0".
  - 4) TRENCH PAVEMENT PAY LIMIT IS TRENCH WIDTH PLUS 2'-0".
  - 5) COORDINATE FRAME AND GRATE REQUIREMENTS WITH PLAN AND PROFILE SHEETS.



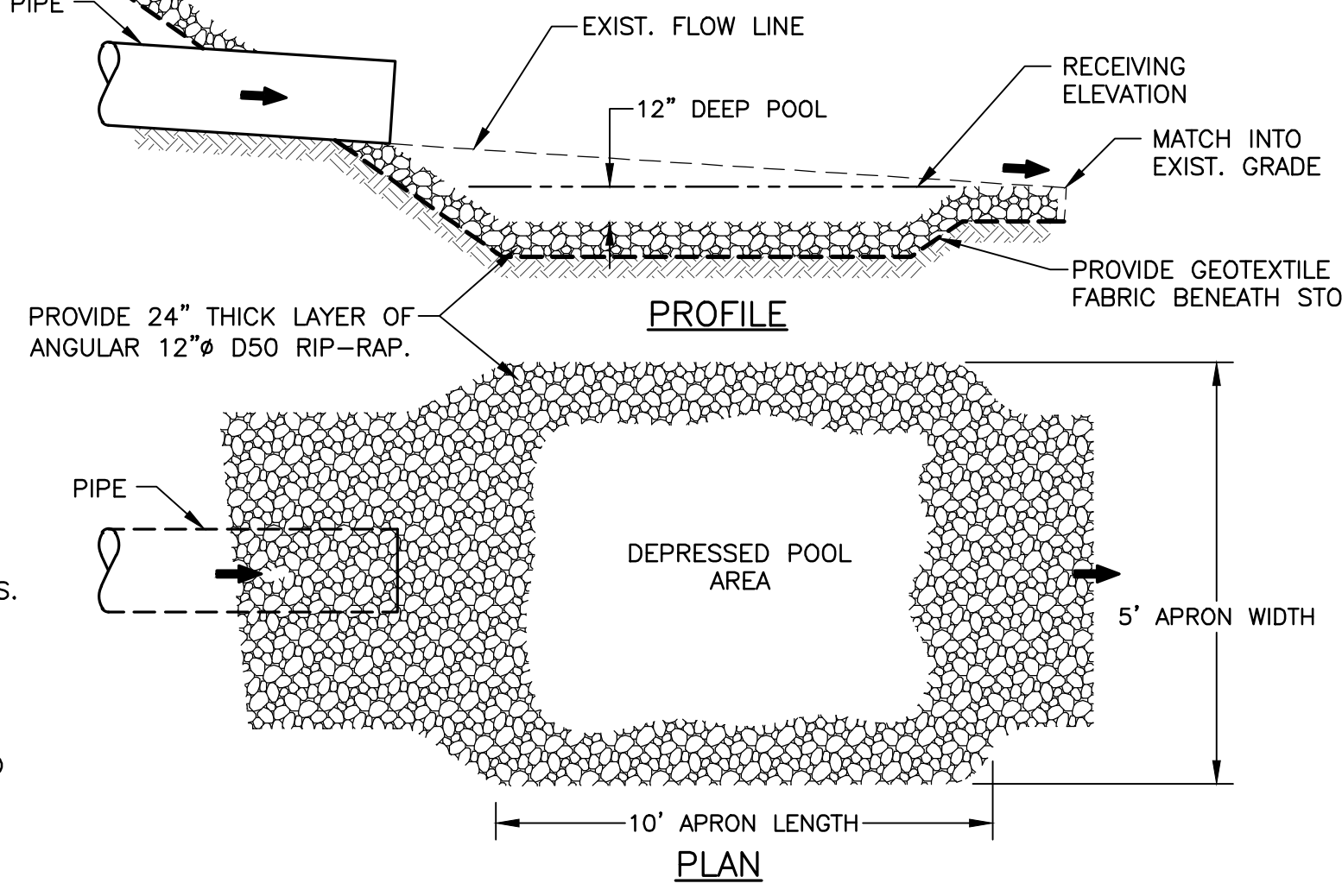
**TYPICAL TYPE F CATCH BASIN DETAIL**

- NOTES:**
- 1) SEE PROFILE FOR ELEVATIONS OF GRATE RELATIVE TO FINISH GRADES AND SET HEIGHT AS REQUIRED.
  - 2) FRAME HEIGHT MAY VARY TO MEET FINAL GRADE REQUIREMENTS.
  - 3) TRENCH WIDTHS/PAY LIMITS SHALL BE CB O.D. + 4'-0".
  - 4) TRENCH PAVEMENT PAY LIMIT IS TRENCH WIDTH PLUS 2'-0".
  - 5) COORDINATE FRAME AND GRATE REQUIREMENTS WITH PLAN AND PROFILE SHEETS.

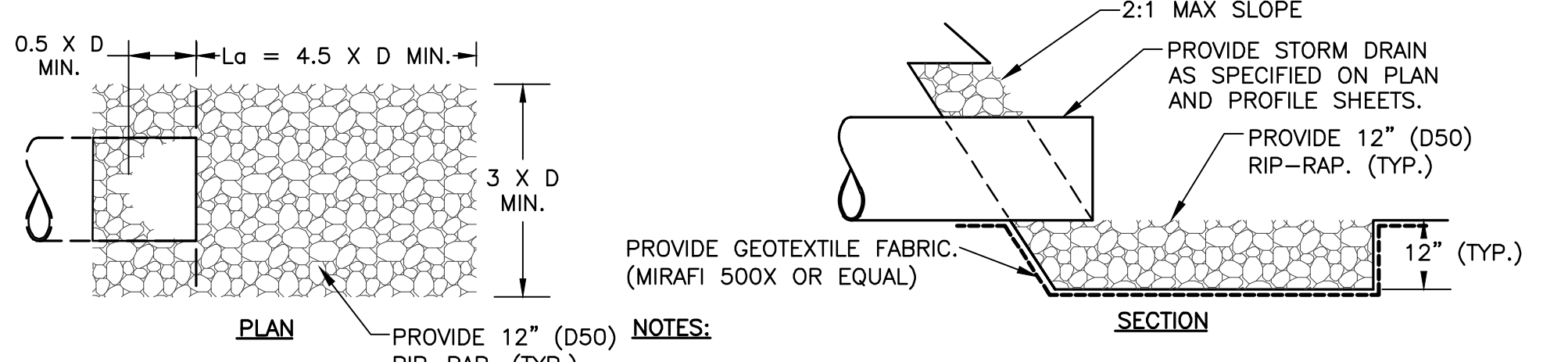


**PRECAST MANHOLE DETAIL**

- NOTES:**
- 1) SEE PROFILE FOR ELEVATIONS OF RIM RELATIVE TO FINISH GRADES AND SET HEIGHT AS REQUIRED.
  - 2) FRAME HEIGHT MAY VARY TO MEET FINAL GRADE REQUIREMENTS.
  - 3) TRENCH WIDTHS/PAY LIMITS SHALL BE MH O.D. + 4'-0".

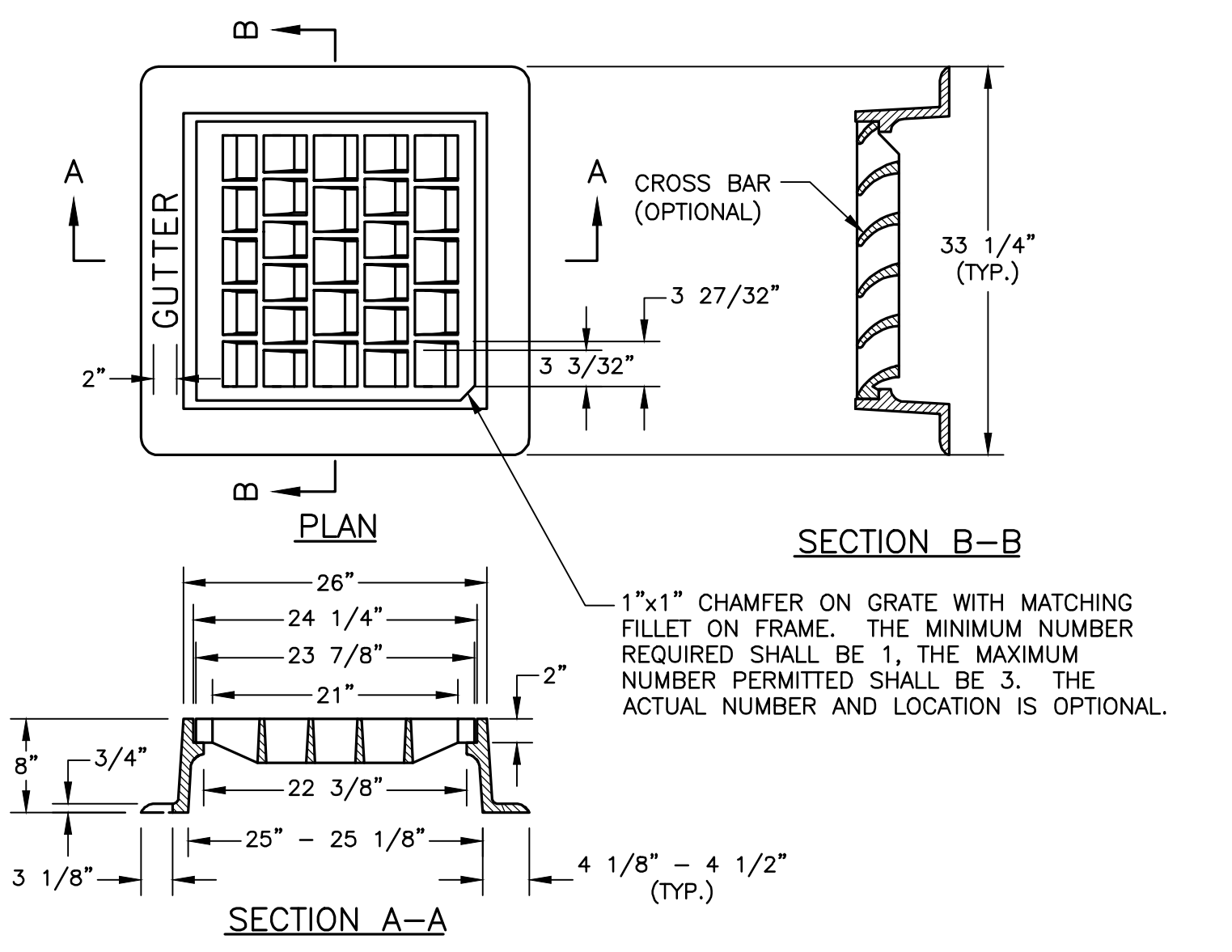


**PLUNGE POOL DETAIL**



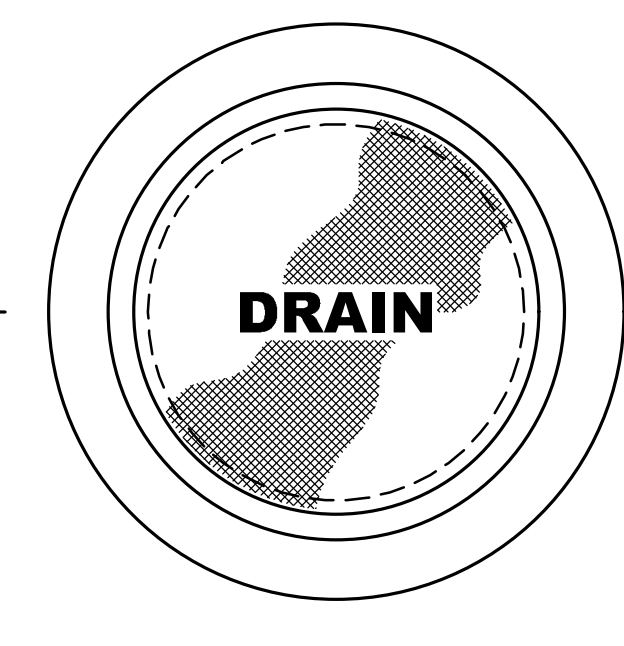
- NOTES:**
- 1) 'La' = LENGTH OF APRON DISTANCE 'La' SHALL BE OF SUFFICIENT LENGTH TO DISSIPATE ENERGY.
  - 2) APRON SHALL BE SET TO A ZERO GRADE AND ALIGNED PARALLEL TO WATER FLOW.
  - 3) FILTER MATERIAL SHALL BE GEOTEXTILE FABRIC. (MIRAFI 500X OR EQUAL)
  - 4) REFERENCE: BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL - ENERGY DISSIPATION RIP-RAP APRON.
  - 5) THIS DETAIL SHALL APPLY TO PIPE DIAMETERS OF 36" OR LESS.

**CULVERT RIP-RAP DETAIL**

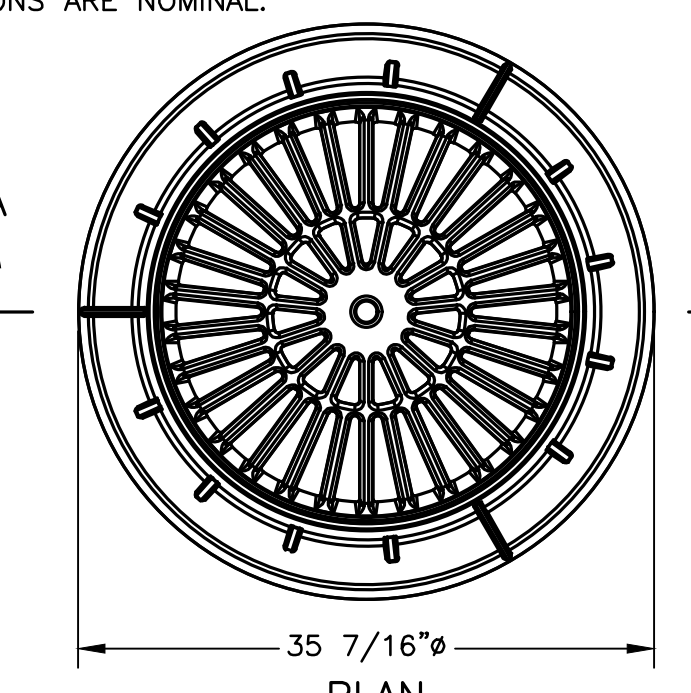


**STANDARD CATCH BASIN FRAME AND GRATE DETAIL**

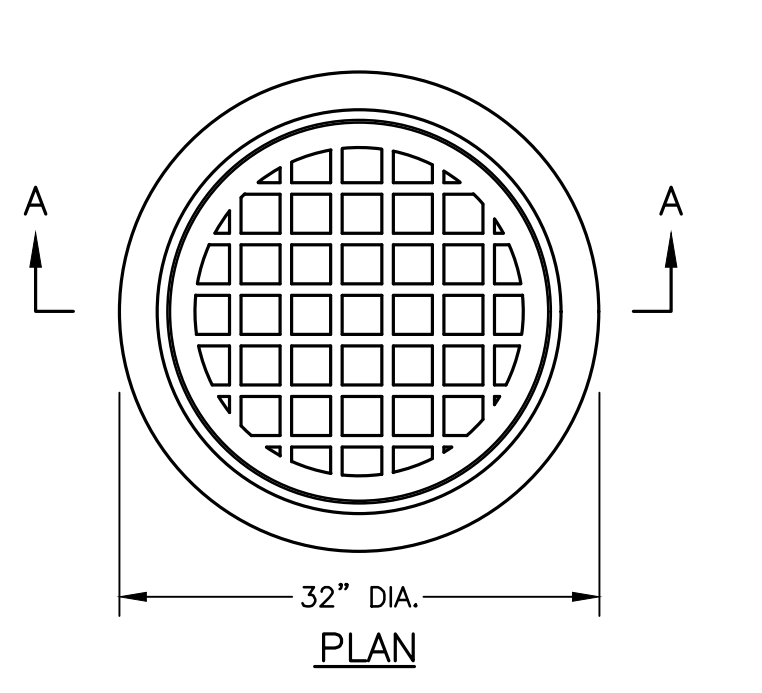
- NOTES:**
- 1) TYPE "A" FRAMES TO HAVE 3-FLANGES.
  - 2) TYPE "B" FRAMES TO HAVE 4-FLANGES.
  - 3) THE WORD "GUTTER" IS TO BE MOLDED INTO THE BACK FLANGE - TYPE "B" ONLY.
  - 4) FRAMES AND GRATES ARE TO BE OF GRAY CAST IRON OR DUCTILE IRON CONFORMING TO AASHTO M306.
  - 5) DIMENSIONS ARE NOMINAL.



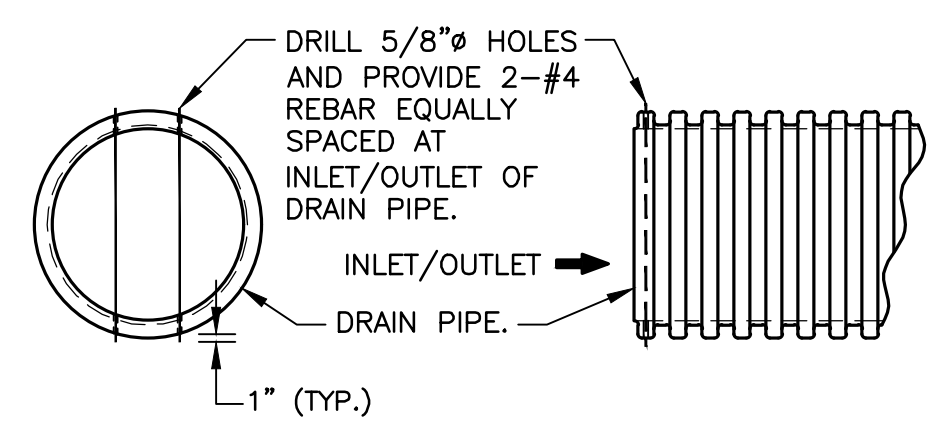
**DRAIN MANHOLE FRAME AND COVER DETAIL**



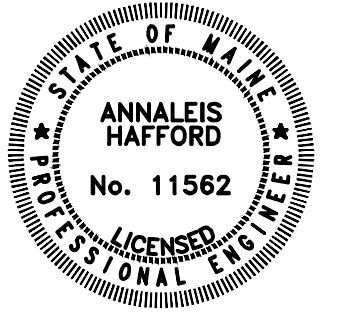
**ROUND DITCH CATCH BASIN FRAME AND GRATE DETAIL**



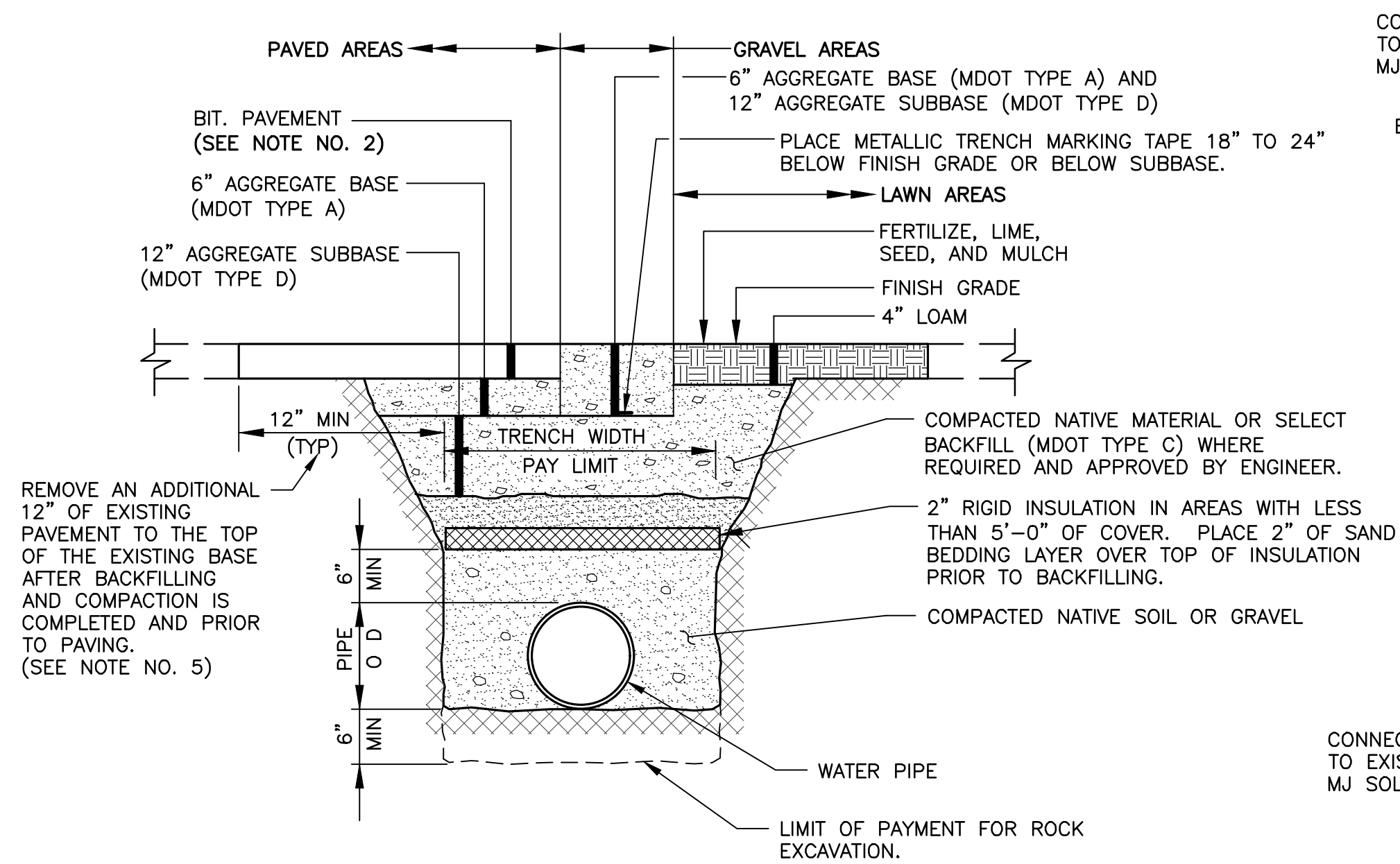
**ROUND CATCH BASIN FRAME AND GRATE DETAIL**



**DRAIN PIPE INLET/OUTLET SAFETY BARS DETAIL**



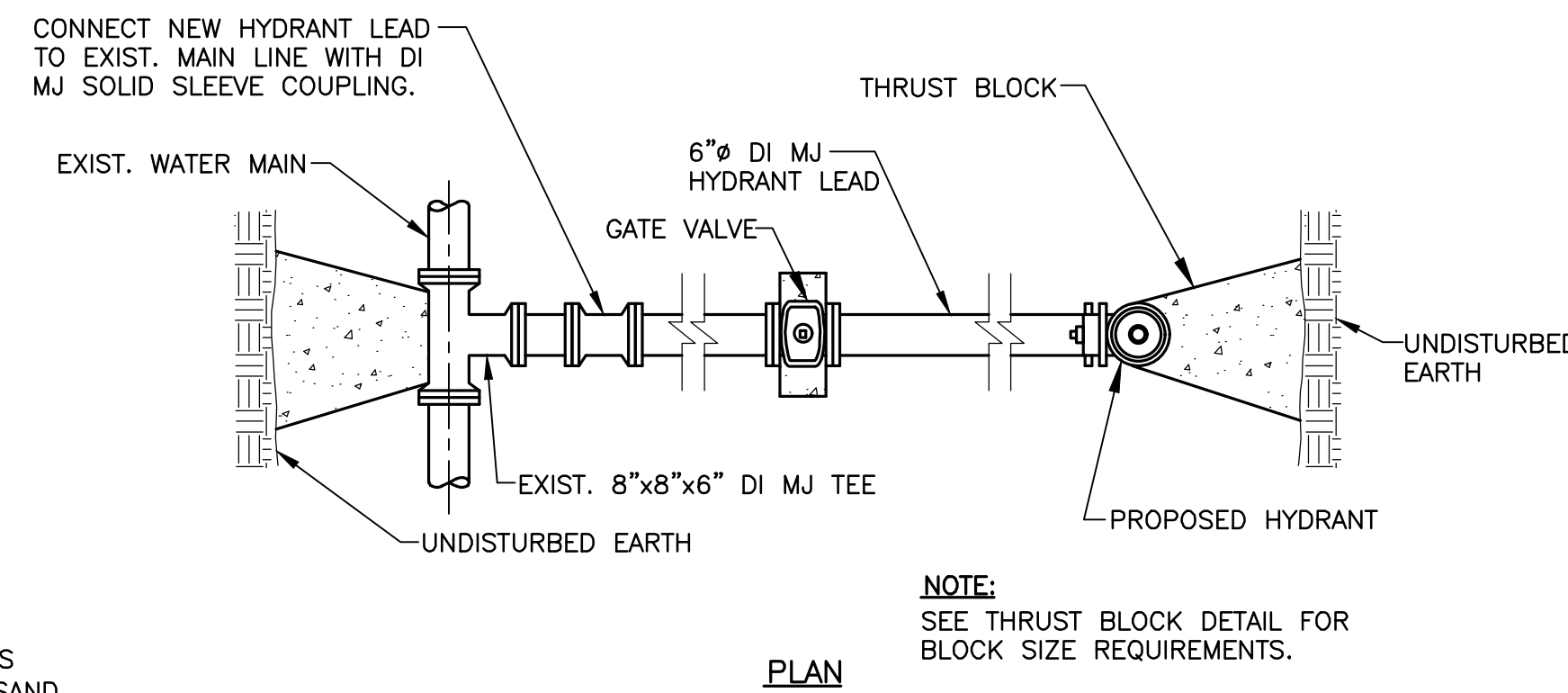
<b>OLVER ASSOCIATES INC.</b> ENVIRONMENTAL ENGINEERS 200 MAIN STREET WINTERPORT, MAINE	
MAY, 2022	MISC. REVISIONS PER MDOT COMMENTS
DATE	ADDITION OR REVISION
DES. BY: NWD/EWH	DR. BY: NWD CK. BY: AH
TOWN OF SOUTHWEST HARBOR, MAINE	
MAIN STREET SIDEWALK, DRAINAGE, WATER, AND SEWER IMPROVEMENTS	
<b>CIVIL DETAILS</b>	
SCALE: NONE	PROJECT NO.: 1356
DATE: MAY, 2022	SHEET: C-21



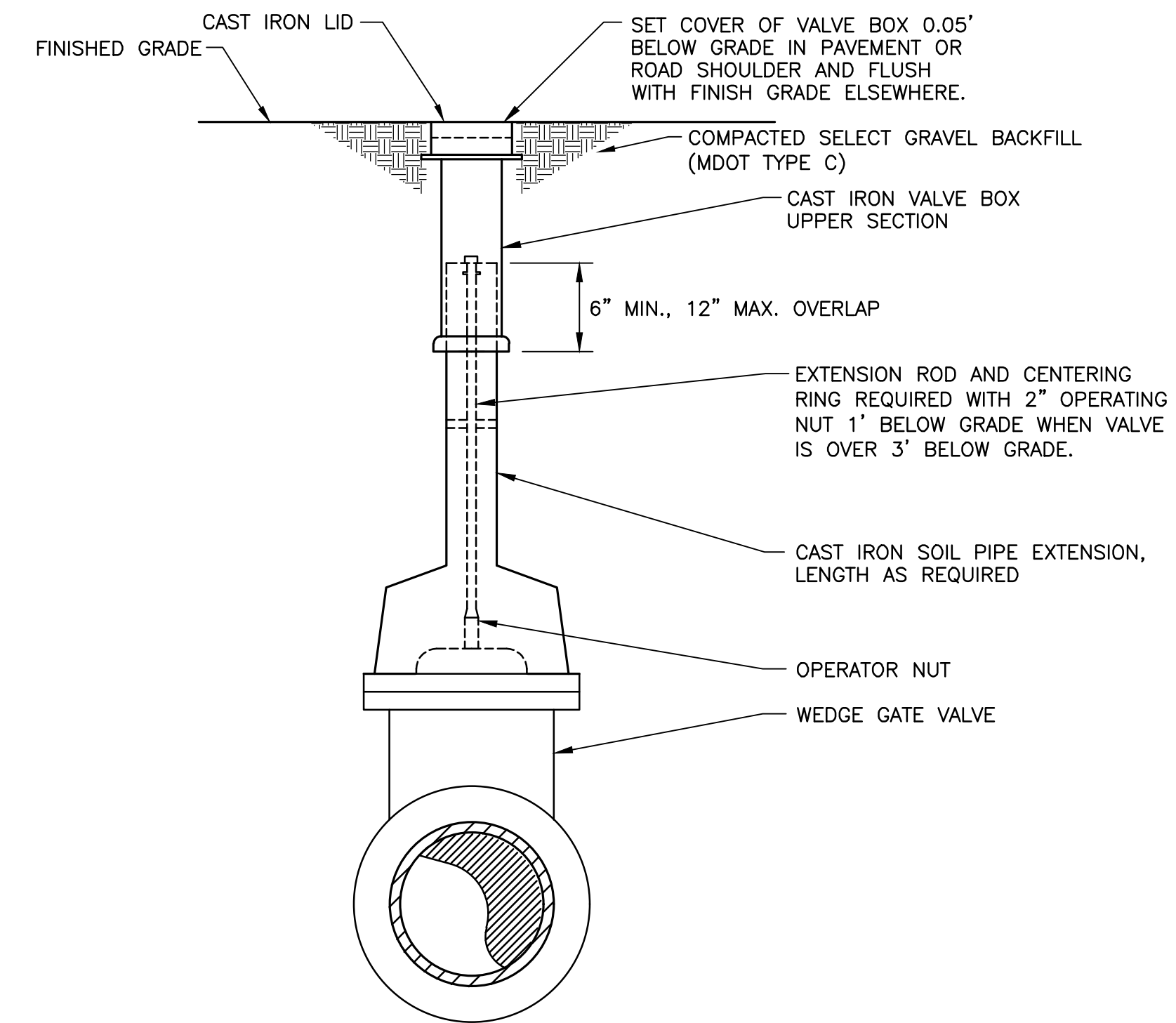
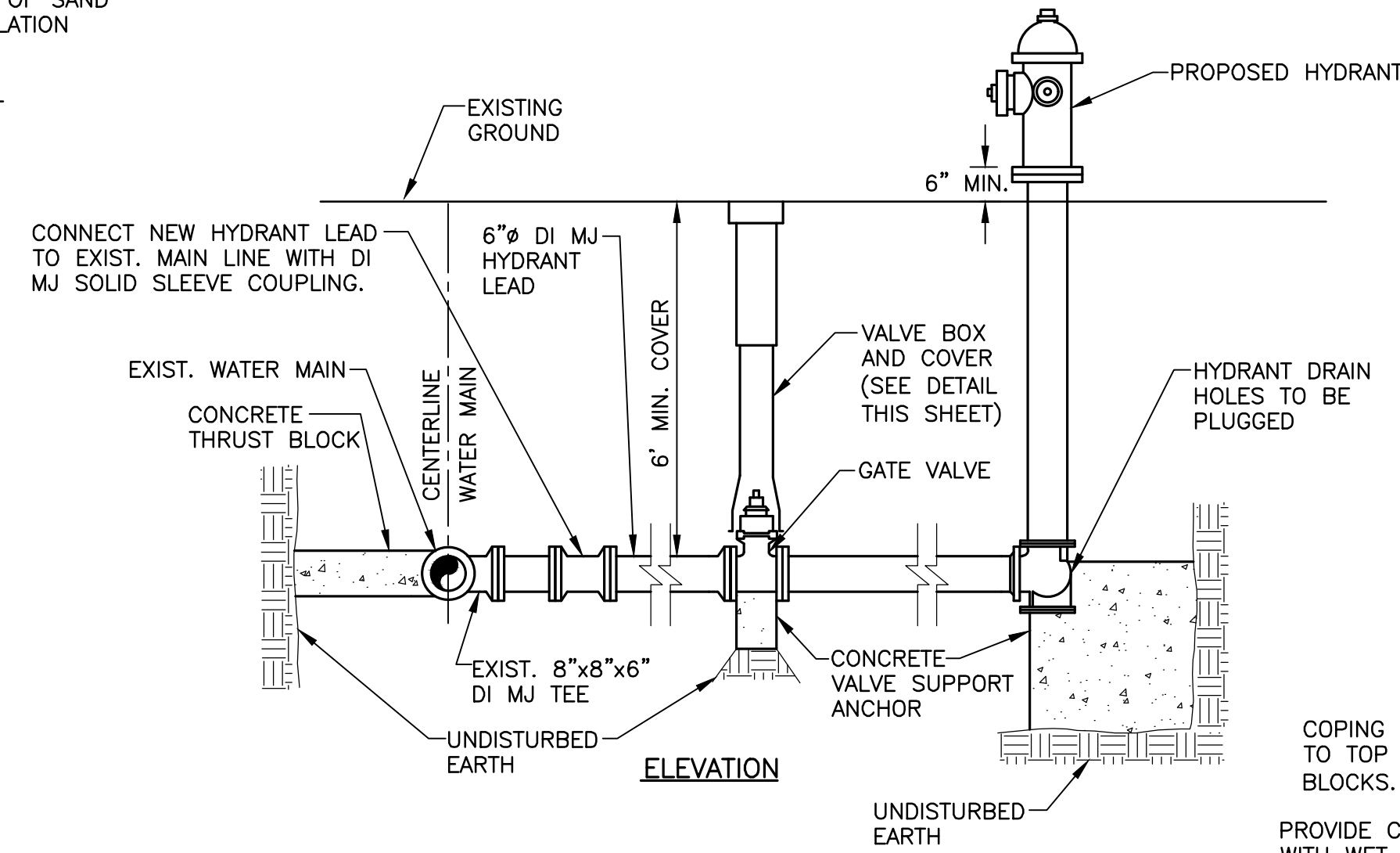
**TYPICAL WATER TRENCH DETAIL**

**NOTES:**

- 1) MAINTAIN UNIFORM TRENCH WIDTH TO 12" OVER PIPE.
- 2) FOR SHOULDER AREAS AND WOOD STREET, 4" HMA COURSE REQUIRED. FOR TRAVEL LANE AREAS, 6" HMA REQUIRED. REFER TO SPECIFICATION SECTION 403.
- 3) TRENCH PAVEMENT PAY LIMIT IS 8'-0".
- 4) DURING EXCAVATION, SEPARATE THE EXISTING ROADBED GRAVEL LAYER FROM THE NATIVE TRENCH EXCAVATION BELOW. REUSE ORIGINAL EXCAVATED NATIVE MATERIALS DURING BACKFILLING IF COMPACTABLE IN THE ORDER THAT THEY WERE REMOVED. THE DESIGN INTENT IS TO MATCH THE EXISTING ROADWAY BASE/SUBBASE MATERIALS.
- 5) THE FINAL SAW CUTTING OF PAVEMENT TO THE TOP OF THE EXISTING BASE SHALL BE PERFORMED AFTER BACKFILLING AND COMPACTION IS COMPLETE. AFTER SAW CUTTING AND REMOVING AN ADDITIONAL 12" MIN. OF PAVEMENT BEYOND EACH EDGE OF THE TRENCH, THE ENTIRE EXPOSED GRAVEL LAYER SHALL BE ONCE AGAIN COMPACTED, INCLUDING THE UNDISTURBED GRAVEL PORTION, PRIOR TO PAVING.



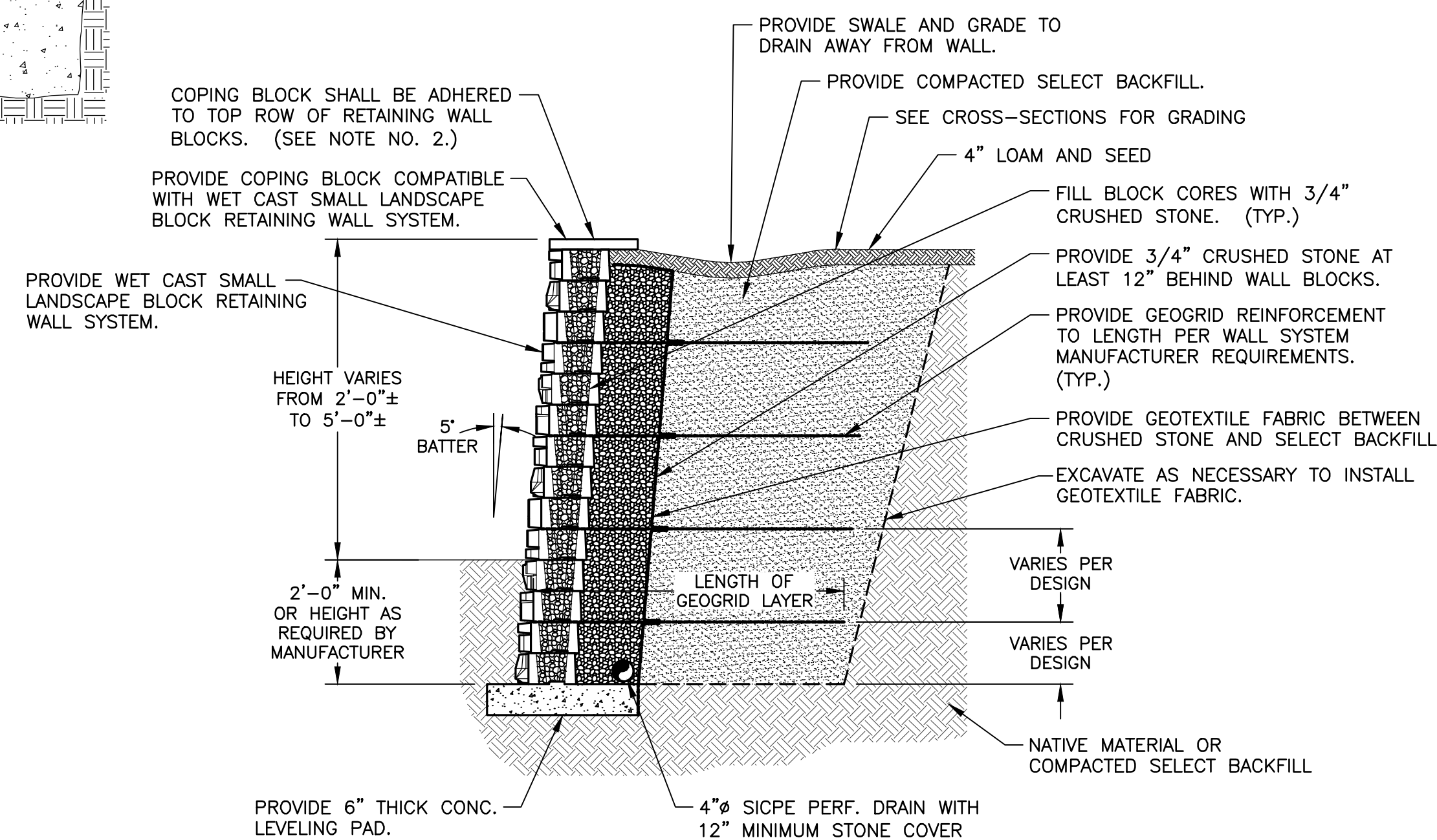
**HYDRANT DETAIL**



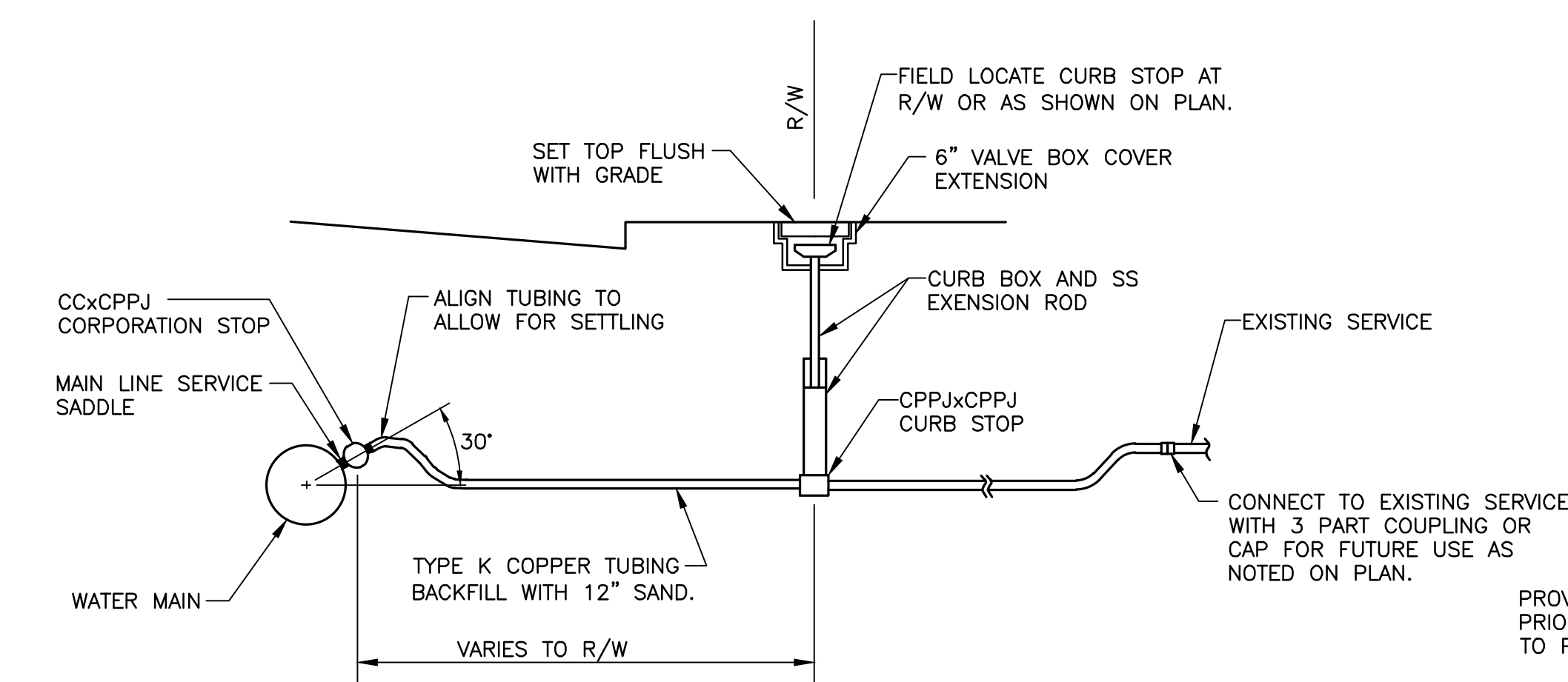
**BURIED VALVE BOX DETAIL**

**NOTES:**

- 1) BLOCK SETBACK = 1/2" PER COURSE = 5" BATTER
- 2) CONSTRUCTION ADHESIVES SHALL BE SPECIFICALLY FORMULATED FOR SEGMENTAL BLOCK WALL CONSTRUCTION AND SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
- 3) PROVIDE FITTINGS OR DEFLECT PIPE AS REQUIRED FOR VARYING BOTTOM COURSE OF BLOCK RETAINING WALL.
- 4) FINAL DESIGNS FOR CONSTRUCTION MUST BE PREPARED BY A REGISTERED PROFESSIONAL ENGINEER USING THE ACTUAL CONDITIONS OF THE PROPOSED SITE.
- 5) FINAL WALL DESIGN MUST ADDRESS BOTH INTERNAL AND EXTERNAL DRAINAGE AND SHALL BE EVALUATED BY THE PROFESSIONAL ENGINEER WHO IS RESPONSIBLE FOR THE WALL DESIGN.
- 6) BLOCKS ARE PRODUCED WITH DIFFERENT FACE TEXTURES. EXPOSED BLOCK FACES WILL VARY THROUGHOUT THE WALL DEPENDING ON INSTALLATION PATTERN. PROVIDE ALL FULL BLOCKS, CORNER BLOCKS, TOP BLOCKS, AND COPING BLOCKS AS REQUIRED AND RECOMMENDED BY MANUFACTURER FOR A COMPLETE WALL SYSTEM.



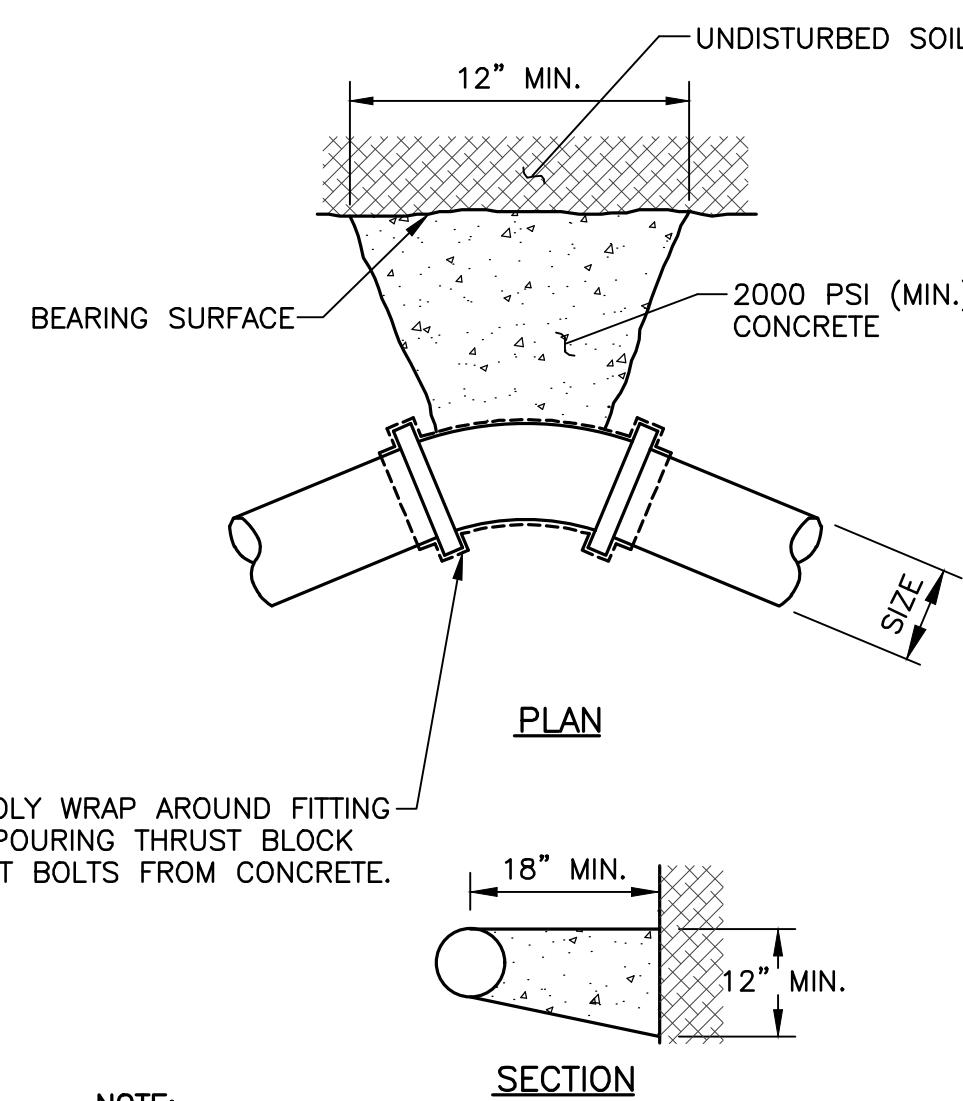
**WET CAST SMALL LANDSCAPE BLOCK RETAINING WALL**



**WATER SERVICE CONNECTION DETAIL**

**NOTES:**

- 1) MAINTAIN 5' OF COVER OVER ENTIRE SERVICES AND CURB STOP. IF EXISTING SERVICE EXISTS BUILDING WITH LESS THAN 5' OF COVER, BEND TUBING TO INSTALL CONNECTION AS SHOWN.
- 2) PROVIDE 6" VALVE BOX COVER EXTENSION ON ALL CURB STOPS.
- 3) ALL SERVICE CONNECTIONS REQUIRE MAIN LINE SERVICE SADDLE.

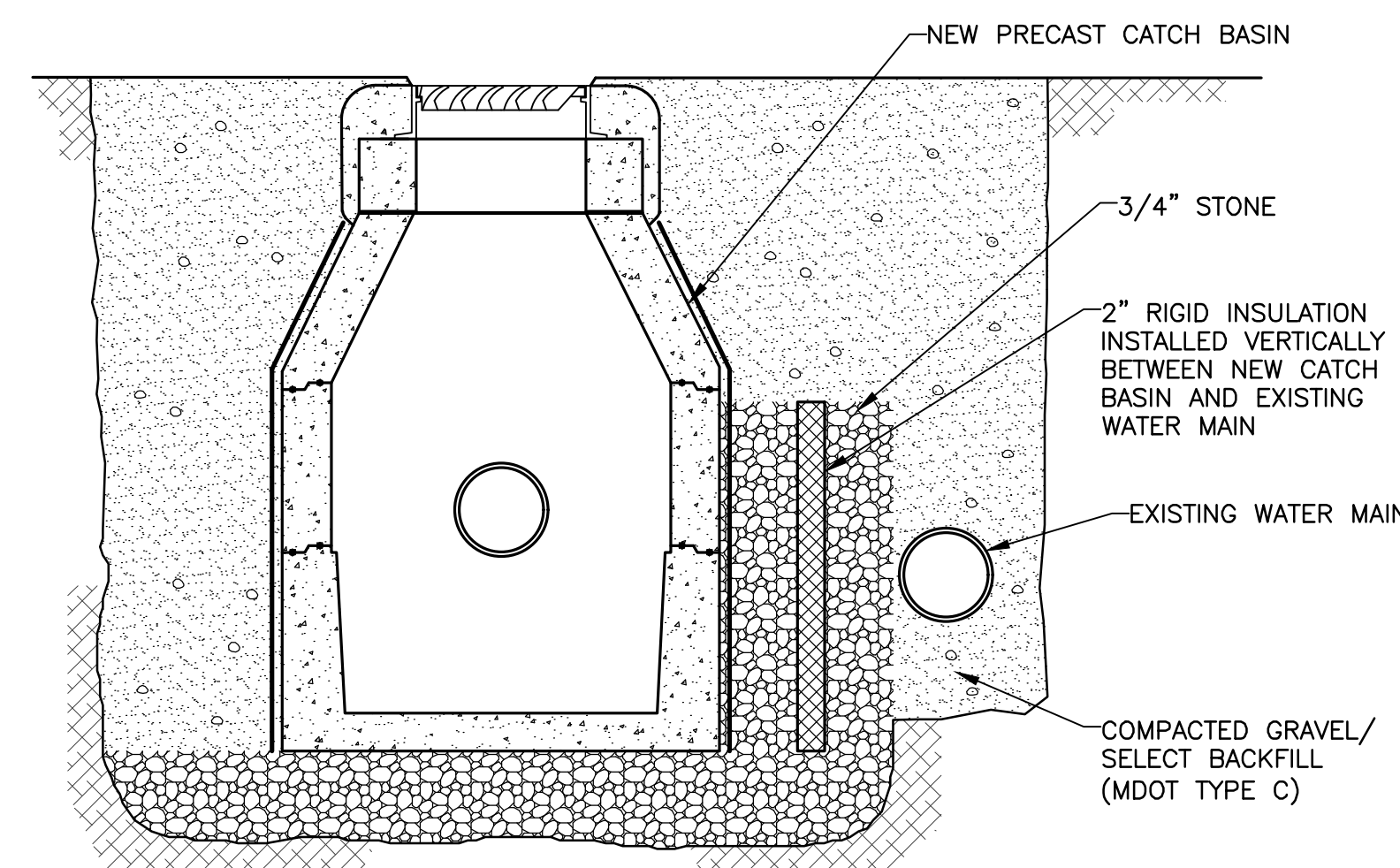


**NOTE:**

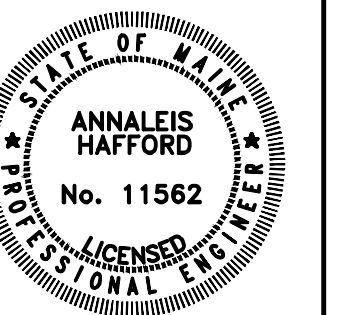
THRUST BLOCK CONFIGURATION SHALL BE APPROX. SQUARE AT BEARING SURFACE, THEN TRANSITION IN DEPTH AND WIDTH TO PIPE, 12"x 12" MINIMUM AT BEARING SURFACE AND 18" MINIMUM DEPTH.

SIZE, IN	BEARING SURFACE, FT <sup>2</sup>			
	TEE, 90°	45°	22 1/2'	11 1/4'
6	2.6	1.4	1.0	1.0
8	4.6	2.5	1.4	1.0
12	9.9	5.4	2.7	1.4

**THRUST BLOCK DETAIL**

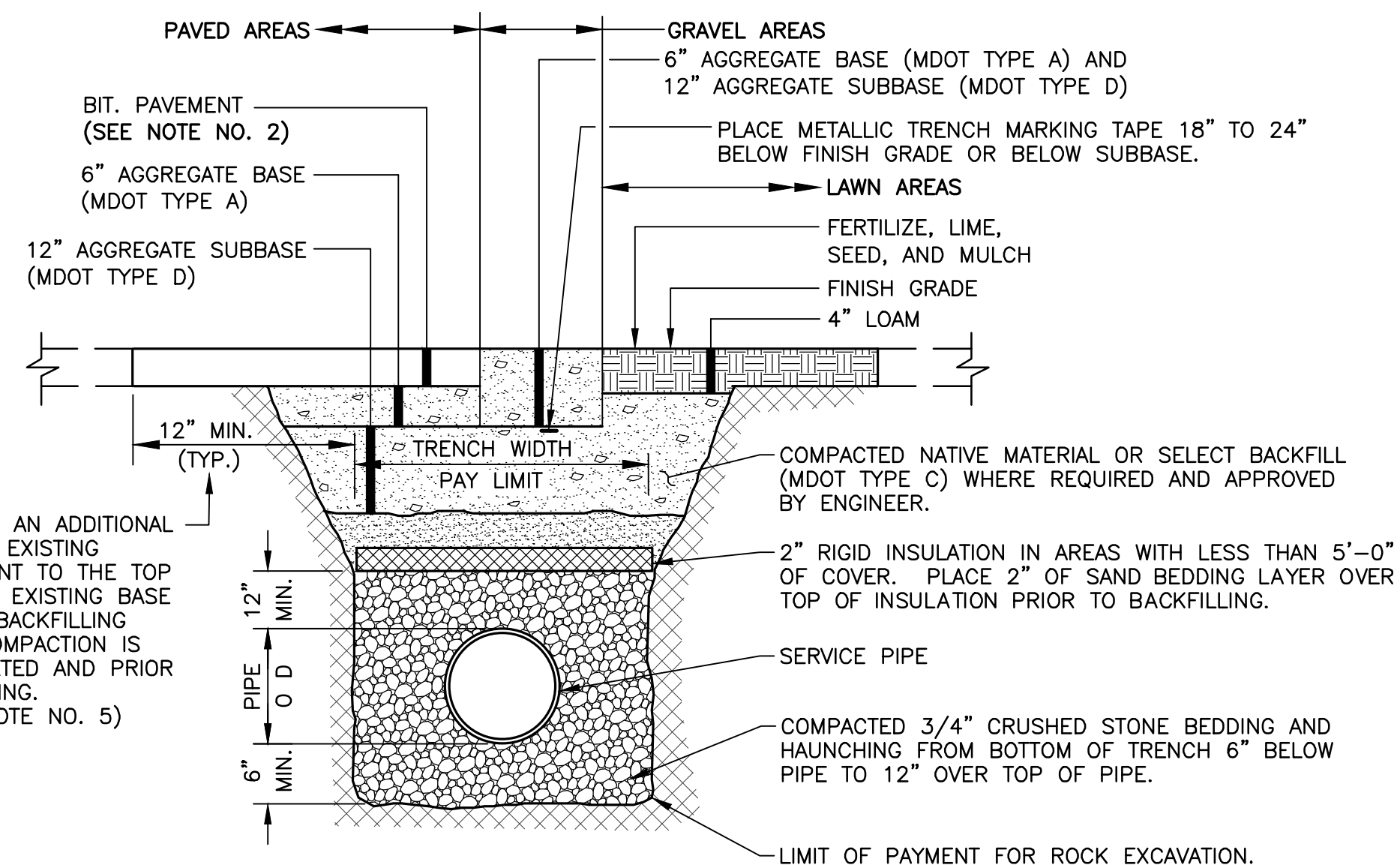


**VERTICAL INSULATION DETAIL**



**OLVER ASSOCIATES INC.**  
ENVIRONMENTAL ENGINEERS  
280 MAIN STREET WINTERPORT, MAINE

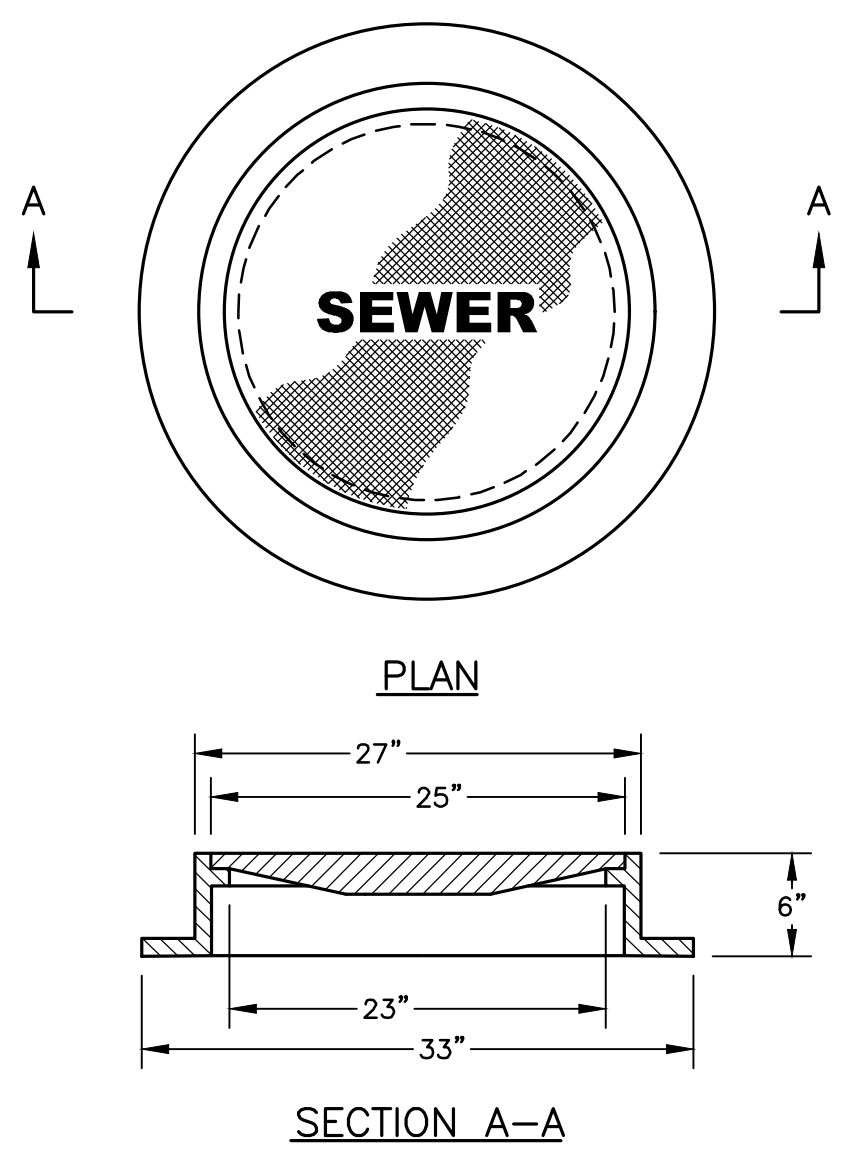
MAY, 2022	MISC. REVISIONS PER MDOT COMMENTS
DATE	ADDITION OR REVISION
DES. BY: NWD/EWH	DR. BY: NWD
	CK. BY: AH
TOWN OF SOUTHWEST HARBOR, MAINE	
MAIN STREET SIDEWALK, DRAINAGE, WATER, AND SEWER IMPROVEMENTS	
<b>CIVIL DETAILS</b>	
SCALE: NONE	PROJECT NO.: 1356
DATE: MAY, 2022	SHEET: C-22



**TYPICAL SEWER TRENCH DETAIL**

**NOTES:**

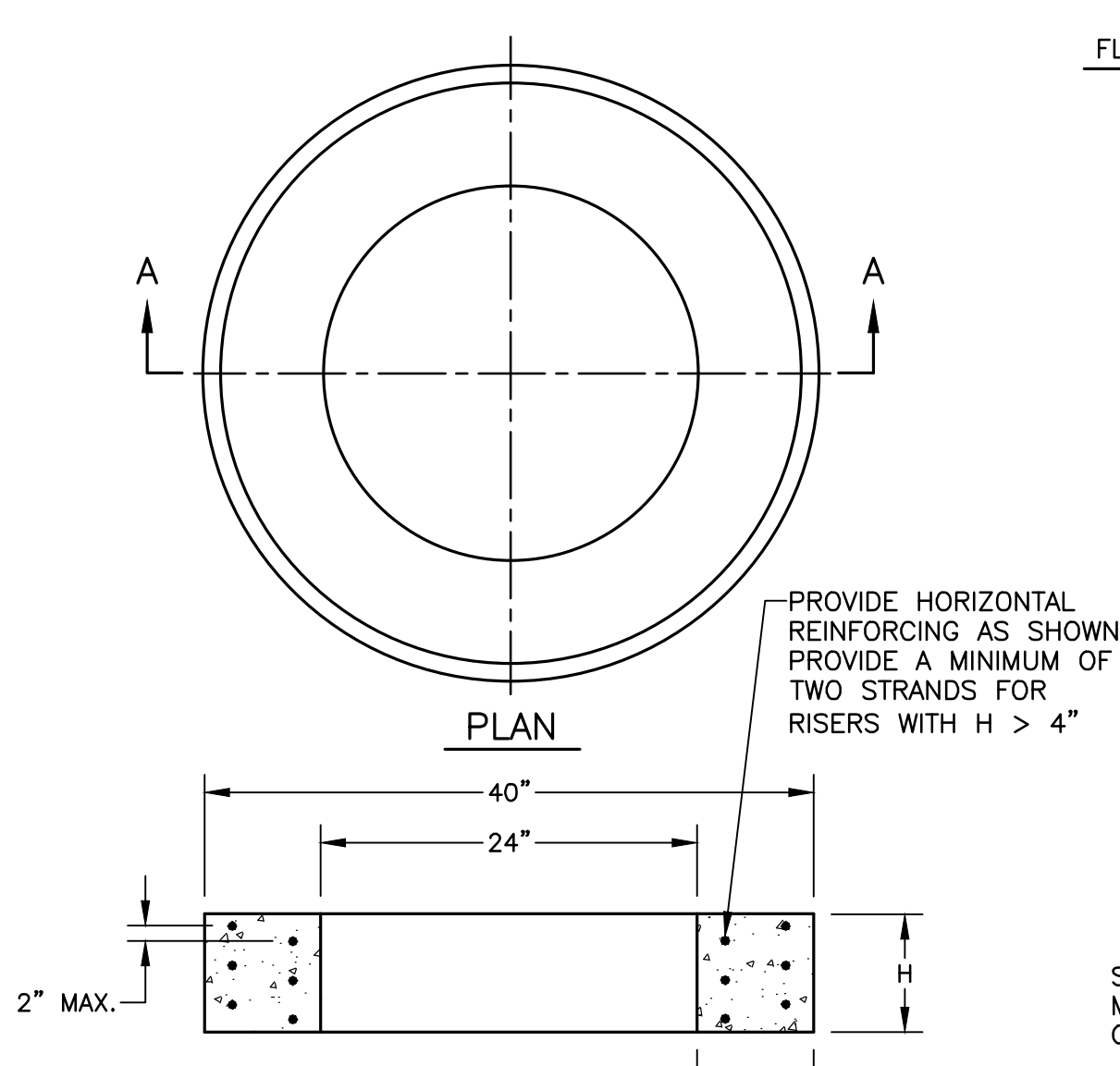
- 1) MAINTAIN UNIFORM TRENCH WIDTH TO 12" OVER PIPE.
- 2) FOR SHOULDER AREAS AND WOOD STREET, 4" HMA COURSE REQUIRED. FOR TRAVEL LANE AREAS, 6" HMA REQUIRED. REFER TO SPECIFICATION SECTION 403.
- 3) TRENCH PAVEMENT PAY LIMIT IS 8'-0".
- 4) DURING EXCAVATION, SEPARATE THE EXISTING ROADBED GRAVEL LAYER FROM THE NATIVE TRENCH EXCAVATION BELOW. REUSE ORIGINAL EXCAVATED NATIVE MATERIALS DURING BACKFILLING IF COMPACTABLE IN THE ORDER THAT THEY WERE REMOVED. THE DESIGN INTENT IS TO MATCH THE EXISTING ROADWAY BASE/SUBBASE MATERIALS.
- 5) THE FINAL SAW CUTTING OF PAVEMENT TO THE TOP OF THE EXISTING BASE SHALL BE PERFORMED AFTER BACKFILLING AND COMPACTION IS COMPLETE. AFTER SAW CUTTING AND REMOVING AN ADDITIONAL 12" MIN. OF PAVEMENT BEYOND EACH EDGE OF THE TRENCH, THE ENTIRE EXPOSED GRAVEL LAYER SHALL BE ONCE AGAIN COMPACTED, INCLUDING THE UNDISTURBED GRAVEL PORTION, PRIOR TO PAVING.



**SEWER MANHOLE FRAME AND COVER DETAIL**

**NOTE:**

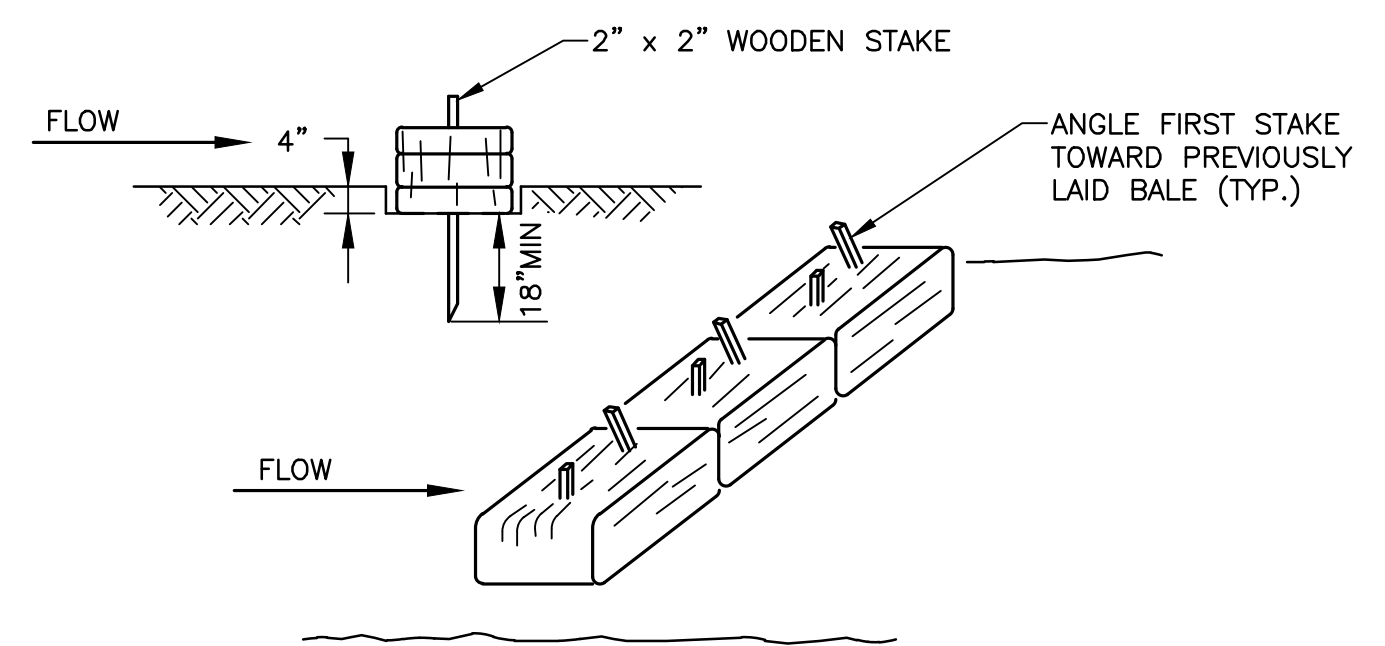
CAST IRON FRAME AND COVER: FRAME - EJ PRESCOTT 65058 OR EQUAL COVER - EJ PRESCOTT 65305 OR EQUAL



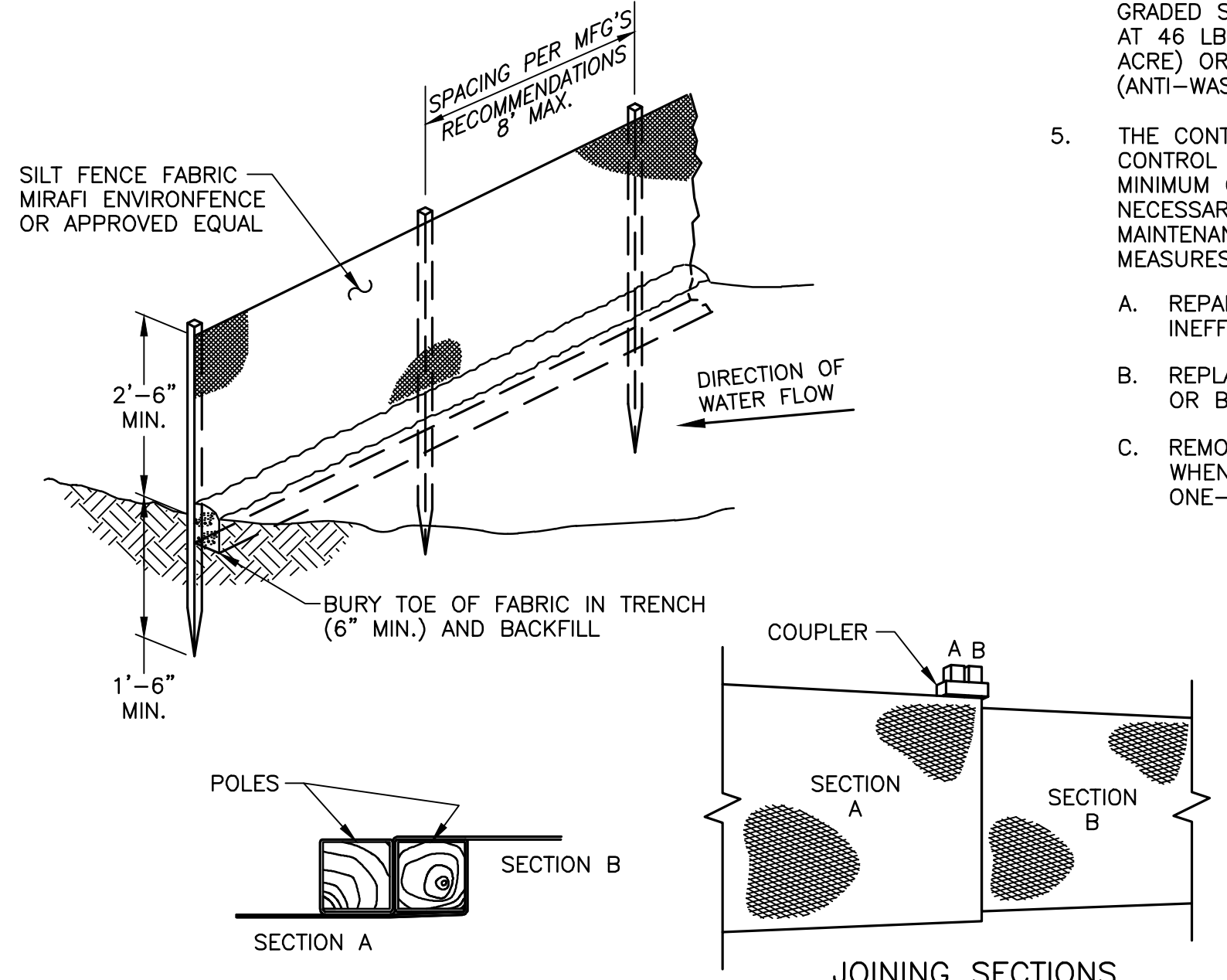
**PRECAST CONCRETE GRADE RINGS DETAIL**

**NOTES:**

- 1) PROVIDE H OF 4" MIN. TO 9" MAX. AS REQUIRED TO BRING FRAME TO FINAL GRADE.
- 2) FOR FRAME ADJUSTMENTS OF LESS THAN 4" USE APPROVED ALTERNATE STRUCTURE FRAME AND/OR ATTACH FRAME DIRECTLY TO PRECAST STRUCTURE CONE.
- 3) DO NOT MAKE FINAL ADJUSTMENT OF RIM ELEVATION UNTIL AFTER HMA PAVEMENT COURSE HAS BEEN PLACED.
- 4) SET RIM ELEVATION 0.02' BELOW FINAL SURFACE COURSE ELEVATION.



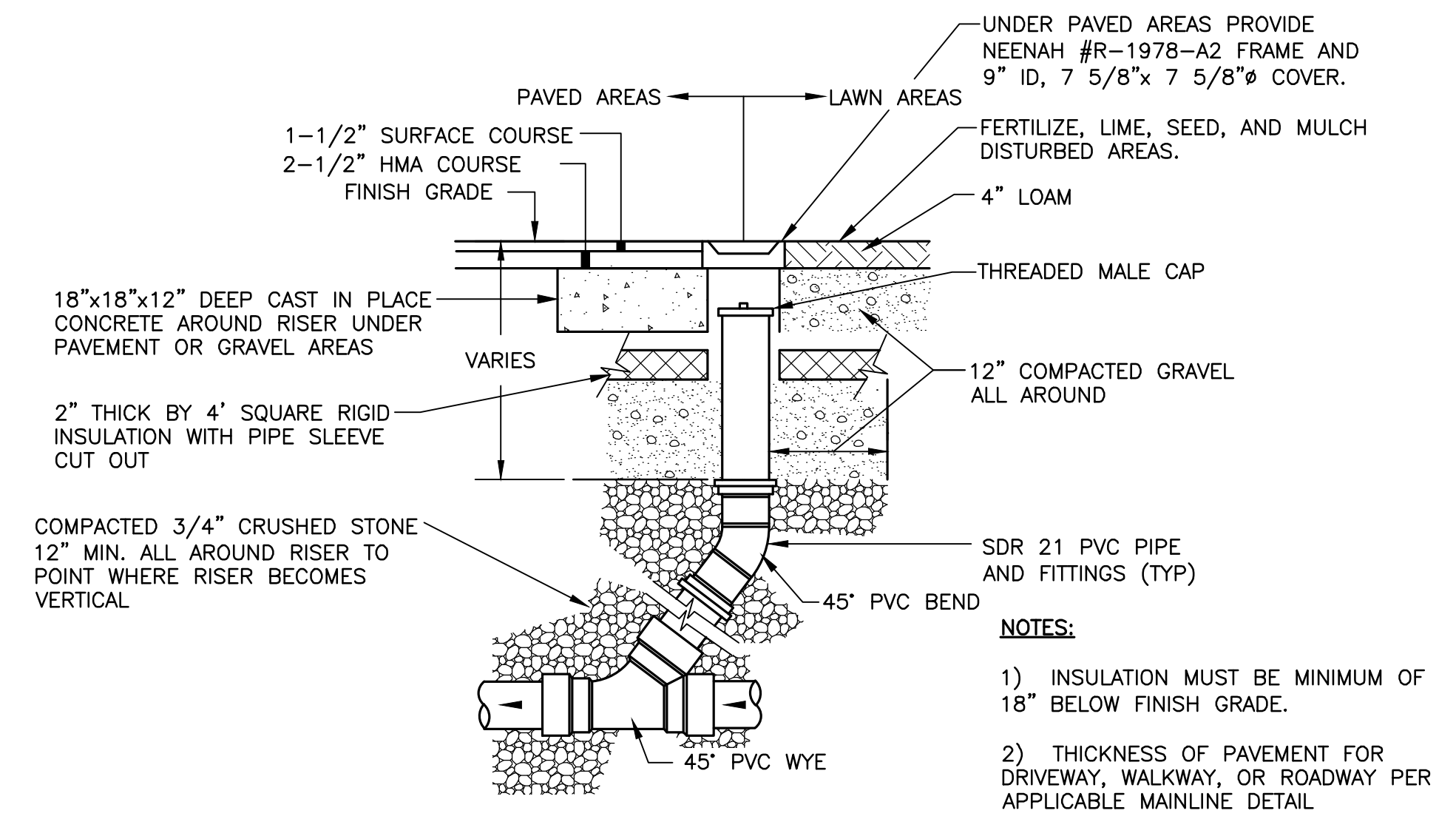
**HAY BALE BARRIER DETAIL**



**SILT FENCE DETAIL**

**NOTES:**

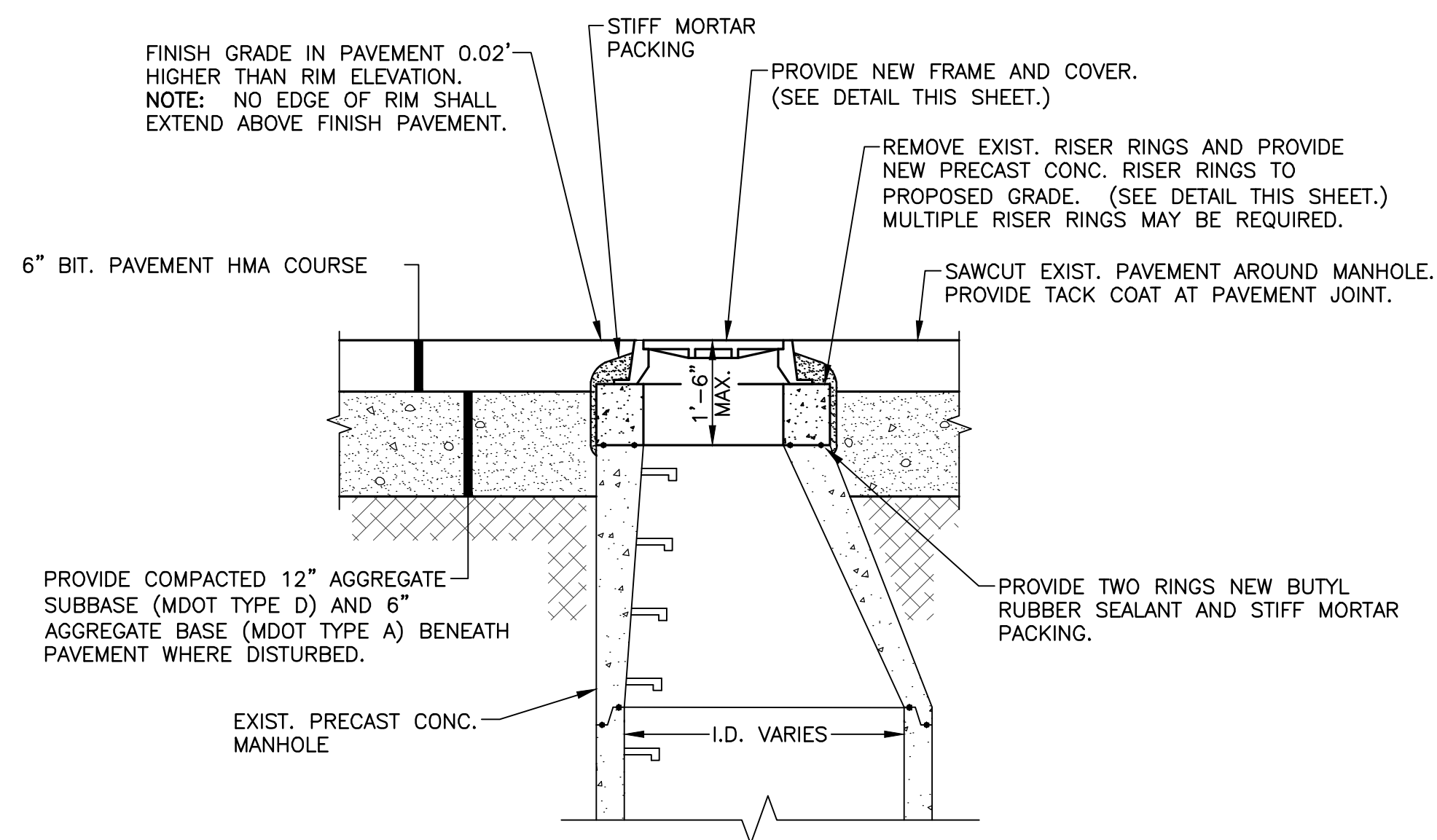
- 1) THE COUPLER CAN BE ANY ACCEPTABLE DEVICE USED TO TIE THE POLES TOGETHER.
- 2) POSTS MAY BE WIRED TOGETHER WHEN JOINING SECTIONS.



**CLEANOUT DETAIL**

**NOTES:**

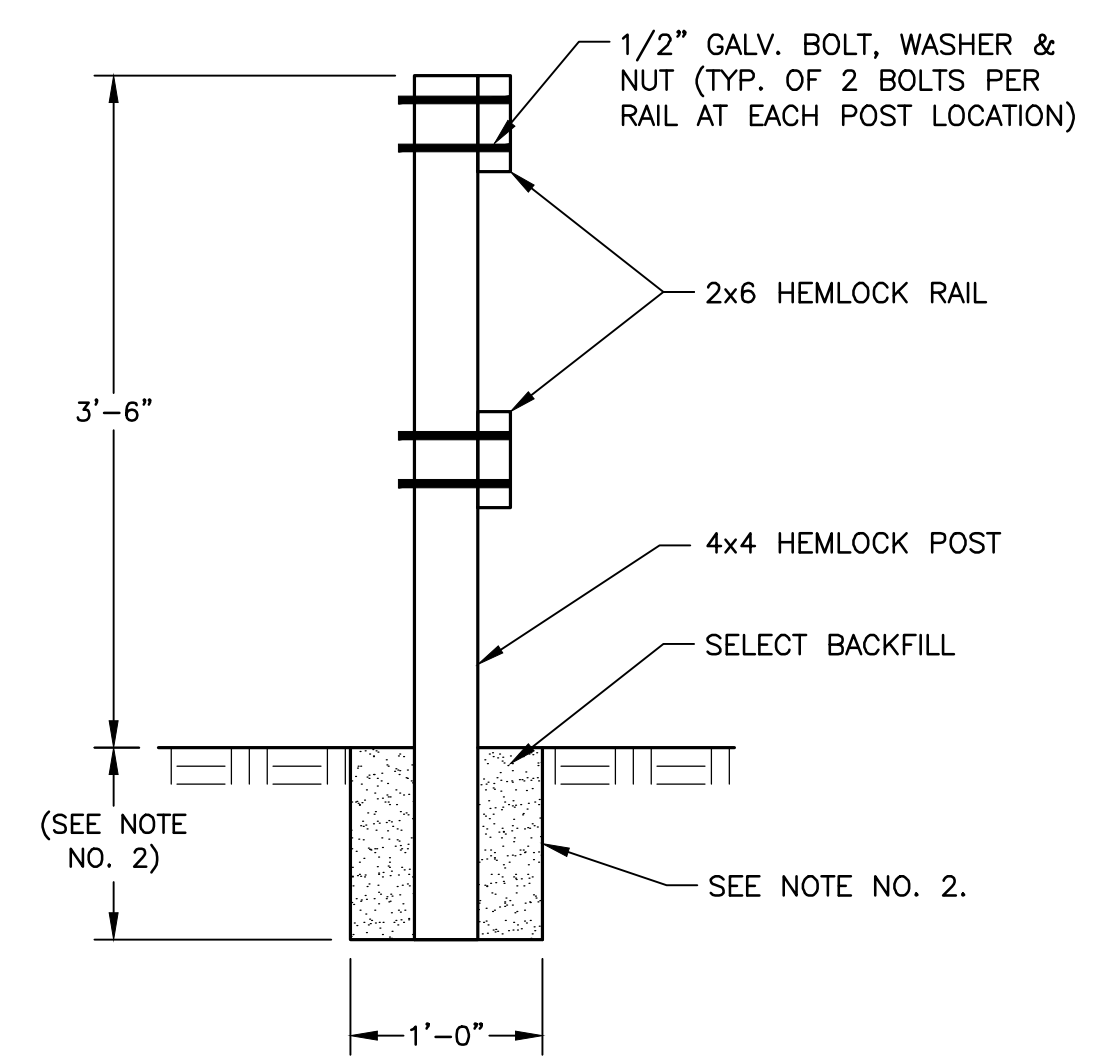
- 1) INSULATION MUST BE MINIMUM OF 18" BELOW FINISH GRADE.
- 2) THICKNESS OF PAVEMENT FOR DRIVEWAY, WALKWAY, OR ROADWAY PER APPLICABLE MAINLINE DETAIL
- 3) FOR LAWN AND GRAVEL AREAS, CLEANOUTS SHALL BE 12" BELOW GRADE.
- 4) CONNECT SDR 21 PVC RISER SECTION TO SDR 35 PVC STUB AT WYE FITTINGS WITH FERNCO COUPLING.



**PRECAST MANHOLE RAISING DETAIL**

**NOTES:**

PAVEMENT WIDTH PAY LIMIT SHALL BE 4'-0" SQUARE.



**HEMLOCK GUARDRAIL DETAIL**

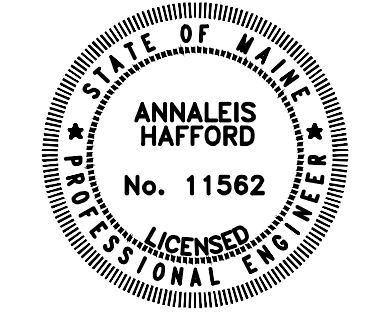
**NOTES:**

- 1) ASSEMBLE GUARDRAIL WITH GALVANIZED BOLTS, WASHER AND NUTS. (2) EACH PER POST PER RAIL.
- 2) CORE EXIST. LEDGE 1'-0" DEEP, BURY POST IN SELECT GRAVEL BACKFILL. IF LEDGE IS NOT PRESENT, PROVIDE SLEEVE AND BURY POST 5'-0" DEEP IN SELECT GRAVEL BACKFILL.

**EROSION CONTROL NOTES**

EROSION CONTROL DURING THE CONSTRUCTION OF THIS PROJECT SHALL BE CARRIED OUT UTILIZING THE FOLLOWING MEASURES AND IN ACCORDANCE WITH THE MAIN EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION.

1. HAY BALES AND/OR SILT FENCES SHALL BE INSTALLED AS SHOWN ON THIS PLAN AND ON THE "DOWNSTREAM" SLOPE OF ALL CONSTRUCTION AREAS PRIOR TO THE START OF CONSTRUCTION IN THAT AREA, 5'-0" MIN. FROM TOE OF SLOPE. UTILIZE HAY BALES AS NECESSARY TO RESTRICT SOIL TRANSPORT DURING DITCH RESHAPING. TEMPORARY EROSION CONTROL BARRIERS SHALL BE MAINTAINED UNTIL PERMANENT GROUND PROTECTION IS ESTABLISHED.
2. CONSTRUCTION OPERATIONS SHALL BE SCHEDULED IN SUCH A MANNER THAT THE LEAST PRACTICAL AMOUNT OF SOIL IS DISTURBED THAT CANNOT HAVE PERMANENT EROSION CONTROL MEASURES APPLIED IMMEDIATELY.
3. ALL DISTURBED SURFACES SHALL BE LOAMED AND SEEDED IMMEDIATELY AFTER FINAL GRADING IS COMPLETED.
4. ALL DISTURBED SURFACES NOT BEING FINAL GRADED SHALL BE MUCCED WITH HAY OR STRAW AT 46 LBS. PER 1000 SQ. FT. (2 TONS PER ACRE) OR STABILIZED WITH EROSION CONTROL MAT (ANTI-WASH/GEOTEXTURE OR EQUAL).
5. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES AFTER EVERY RAINFALL OR A MINIMUM OF ONCE A WEEK AND PERFORM ANY NECESSARY MAINTENANCE OF THESE MEASURES. MAINTENANCE PROCEDURES FOR EROSION CONTROL MEASURES INCLUDE:
  - A. REPAIRING ANY BARRIERS WHICH HAVE BECOME INEFFECTIVE OR DISLODGED.
  - B. REPLACING ANY BARRIER WHICH HAS DETERIORATED OR BECOME INEFFECTIVE.
  - C. REMOVING SEDIMENT DEPOSITS FROM THE BARRIERS WHEN THE DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.

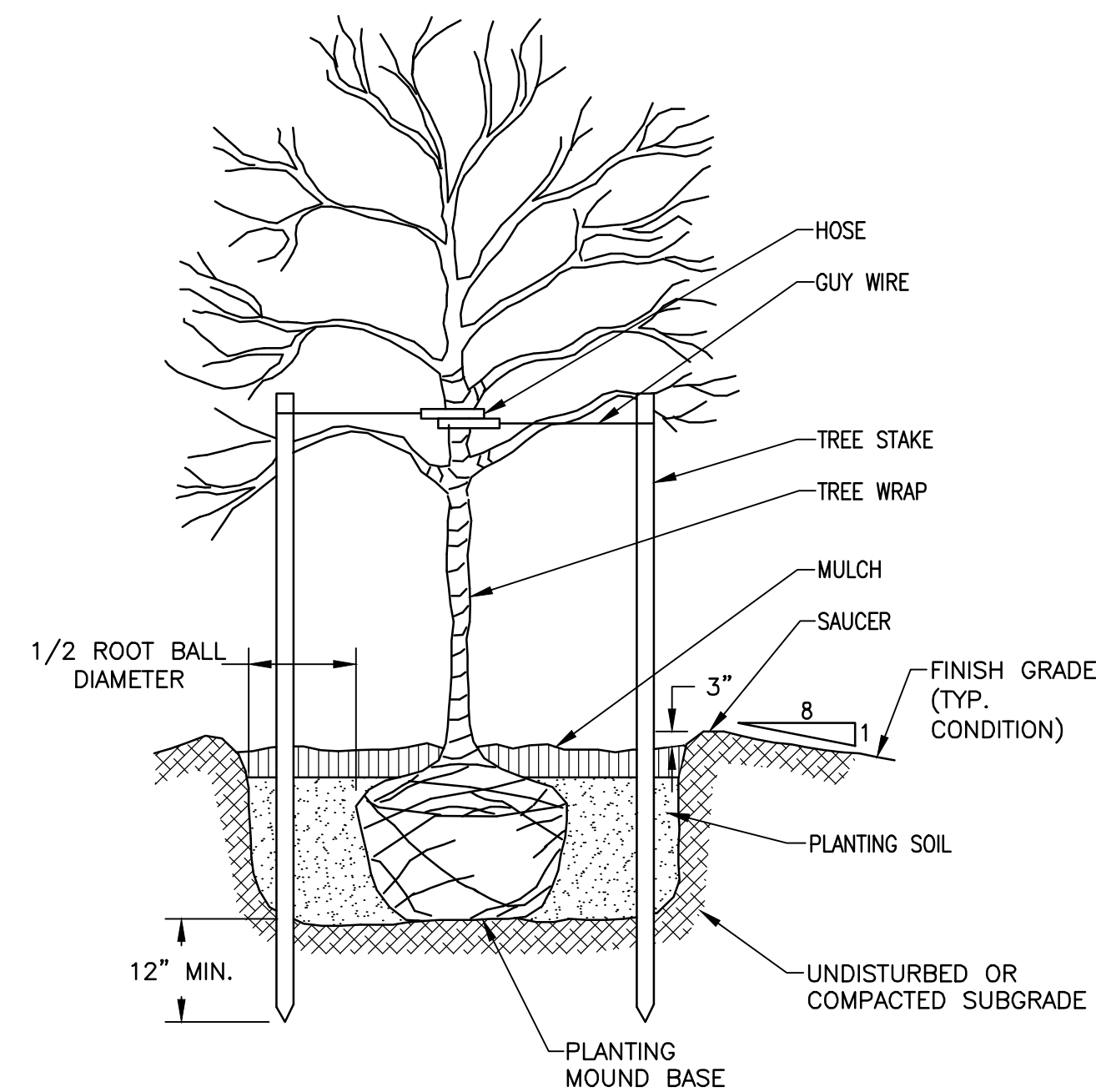


<b>OLVER ASSOCIATES INC.</b> ENVIRONMENTAL ENGINEERS 200 MAIN STREET WINTERPORT, MAINE	
MAY, 2022	MISC. REVISIONS PER MDOT COMMENTS
DATE	ADDITION OR REVISION
DES. BY: NWD/EWH	DR. BY: NWD CK. BY: AH
TOWN OF SOUTHWEST HARBOR, MAINE	
MAIN STREET SIDEWALK, DRAINAGE, WATER, AND SEWER IMPROVEMENTS	
<b>CIVIL DETAILS</b>	
SCALE: NONE	PROJECT NO.: 1356
DATE: MAY, 2022	SHEET: C-23

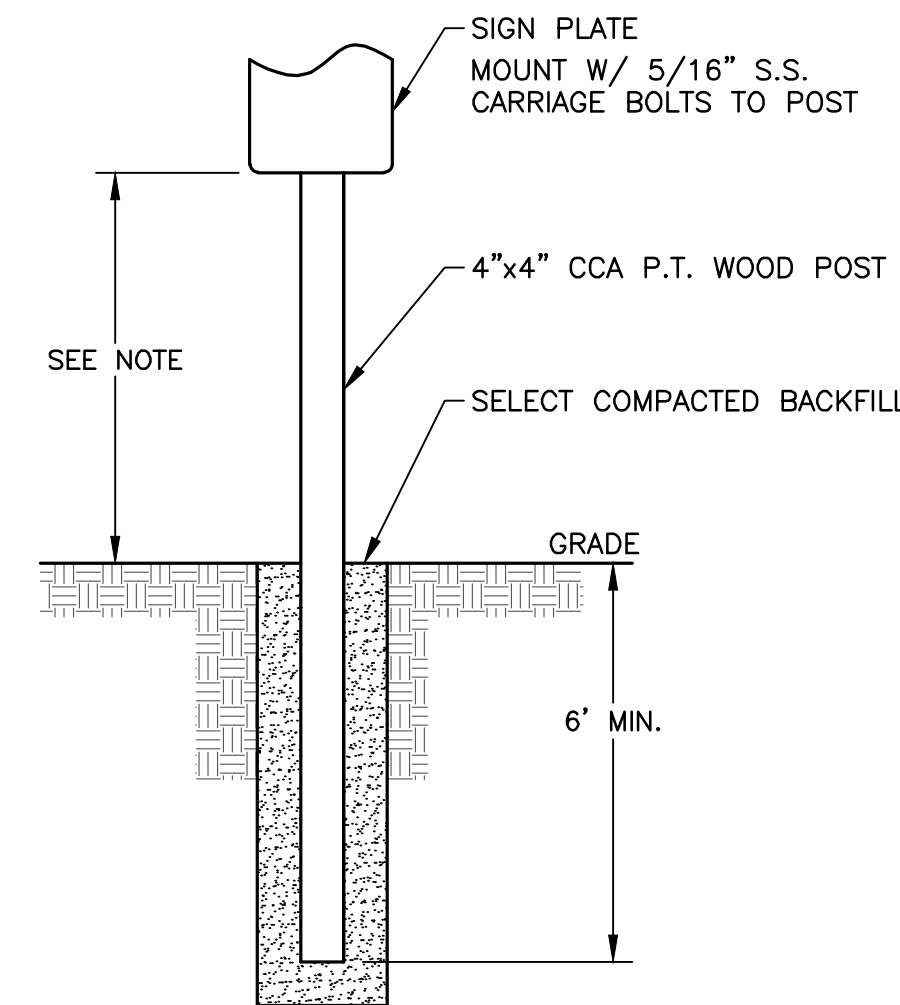
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STATION	DESCRIPTION
-0+21 LT TO -0+04 LT	REMOVE AND REPLACE OR RESET EXIST. CONC. DRAINAGE CURB AS REQUIRED
-0+04 LT TO 0+10 LT	REPLACE EXIST. CONC. SIDEWALK AS REQUIRED
0+07 LT	REPLACE EXIST. HYDRANT
0+15 LT TO 0+78 LT	REMOVE AND RESET EXIST. ROCK RETAINING WALL AS REQUIRED
0+41 RT	EXCAVATE AND REMOVE EXIST. WATER SERVICE FROM 6" CI LINE. CONNECT NEW SERVICE TO 12" CI WATER MAIN ON WEST SIDE OF ROAD
0+86 LT	REPLACE EXIST. MH FRAME AND COVER IN DRIVEWAY APRON AND BRING COVER TO GRADE.
1+47 RT TO 1+83 LT	REMOVE EXIST. 2" PVC GARDEN HOSE SLEEVE INSIDE EXIST. 12" CMP CULVERT AND RETURN TO #464 N/E HEIRS OF HAZEL MAYO CRAFTS.
1+55 RT	REMOVE AND RESET EXIST. 4" PVC DRAIN AS REQUIRED
1+83 LT	EXIST. CB (TO BE REMOVED)
2+30 LT TO 2+70 LT	CUT AND REMOVE EXIST. TREES AND BRUSH AS REQUIRED
2+33 TO LT 2+42 LT	REMOVE AND RESET EXIST. GARDEN PLANTINGS
2+35 LT	REMOVE EXIST. STUMPS ALONG NEW SIDEWALK CONSTRUCTION ROUTE
2+42 LT	EXIST. UTILITY POLES TO BE RELOCATED
2+49 LT	REMOVE EXIST. ROCK PILE AS REQUIRED
2+51 LT	REMOVE EXIST. APPLE TREE
2+82 RT	LOCATE AND REPLACE EXIST. MH FRAME AND COVER WITH NEW FRAME AND COVER. ADJUST MH TO GRADE WITH NEW RISER RINGS
3+00 LT TO 3+05 LT	REMOVE AND RESET EXIST. ROCKS AS REQUIRED
3+00 LT TO 3+05 LT	REMOVE EXIST. GRAN. STEPS AND RESET TO BACK EDGE OF SIDEWALK
3+50 LT TO 3+92 LT	PROVIDE 40 LF CEDAR HEDGE TO REPLACE EXIST. TREE SCREENING REMOVED FOR NEW SIDEWALK CONSTRUCTION. COORDINATE LOCATION OF NEW HEDGE WITH PROPERTY OWNER.
3+56 LT TO 4+01 LT	REMOVE EXIST. LEDGE AS REQUIRED
3+62 LT	EXIST. UTILITY POLES TO BE RELOCATED
4+20 LT TO 4+45 LT	REMOVE EXIST. GRAN. BLOCK WALL AND ROSE BUSHES AS REQUIRED TO RECONSTRUCT SIDEWALK. RELOCATE GRANITE BLOCKS AND PROVIDE 40 LF PINK RUGOSA ROSE BUSHES. COORDINATE WITH PROPERTY OWNER.
4+45 LT TO 9+49 LT	REMOVE EXIST. LEDGE AS REQUIRED
4+47 LT	REMOVE EXIST. GRAN. STEPS AND DELIVER TO PROPERTY OWNER.
4+45 LT TO 4+72 LT	REMOVE EXIST. GRAN. BLOCK WALL AND ROSE BUSHES AS REQUIRED TO RECONSTRUCT SIDEWALK. RELOCATE GRANITE BLOCKS AND PROVIDE 24 LF PINK RUGOSA ROSE BUSHES. COORDINATE WITH PROPERTY OWNER.
4+94 RT	CUT AND REMOVE EXIST. TREES AS REQUIRED
4+94 RT	REMOVE AND RESET EXIST. RIP-RAP AS REQUIRED TO INSTALL NEW CULVERT. PROVIDE NEW RIP-RAP AS NEEDED.
4+94 RT	RESTORE GARDEN AREA WHERE DISTURBED
5+04 LT	EXIST. UTILITY POLES TO BE RELOCATED
5+43 RT	EXCAVATE AND REMOVE EXIST. WATER SERVICE FROM 6" CI LINE. CONNECT NEW SERVICE TO 12" CI WATER MAIN ON WEST SIDE OF ROAD.
5+47 LT TO 5+49 RT	ABANDON EXIST. 12" CMP
5+66 LT	REPLACE EXIST. HYDRANT
5+95.5 RT	REPLACE EXIST. MH FRAME AND COVER AND BRING COVER TO GRADE
6+00 LT TO 6+87 LT	REMOVE EXIST. BIT. CURB AND UNDERDRAIN.
6+05 LT TO 6+55 LT	REMOVE AND REPLACE EXIST. HEDGES.
6+05 LT TO 6+87 LT	REMOVE EXIST. STONE DRAIN AND BIT. CURB.
6+41 LT	ADJUST EXIST. WATER SERVICE VALVE BOXES OR RELOCATE
6+54.5 LT	EXIST. UTILITY POLES TO BE RELOCATED
6+91 LT	EXIST. CB (TO BE REMOVED)
6+92 LT TO 7+23.5 RT	CAP AND ABANDON EXIST. DRAIN NOT REMOVED AS PART OF NEW WORK
7+08	REPLACE EXIST. SEWER SERVICE AS REQUIRED
7+16 LT	REMOVE AND RESET EXIST. PROPERTY PIN AS REQUIRED
7+24 RT	EXIST. CB GRATE EL. 119.70 (TO BE REMOVED)
7+35 RT	EXIST. CB (TO BE REPLACED)
7+60 LT	REMOVE EXIST. STONE SIDEWALK.
7+75 LT	REMOVE AND REPLANT ALL EXIST. ROSE BUSHES ALONG NO. 440 MAIN STREET AND RELOCATE ALONG EMBANKMENT. COORDINATE WITH PROPERTY OWNER.
7+99 RT	REMOVE EXIST. ADVANCE PEDESTRIAN CROSSING SIGN.
8+00 LT	EXIST. UTILITY POLES TO BE RELOCATED
8+00 LT TO 8+30 LT	CUT AND REMOVE EXIST. TREES AND BRUSH AS REQUIRED
8+05 LT	ADJUST EXIST. WATER SERVICE VALVE OR RELOCATE.
8+07 RT	EXCAVATE AND REMOVE EXIST. WATER SERVICE FROM 6" CI LINE. CONNECT NEW SERVICE TO 12" CI WATER MAIN ON WEST SIDE OF ROAD.
8+30 LT	REMOVE AND RESET EXIST. GRANITE STEPS AS REQUIRED
8+48 LT	REMOVE EXIST. WOOD RETAINING WALL.
8+50 LT	REMOVE AND REPLANT EXIST. QUINCY APPLE TREE
8+55 LT	REMOVE EXIST. WOOD RETAINING WALL AND PROVIDE WETCAST SMALL LANDSCAPE BLOCK RETAINING WALL.
8+56 LT	REMOVE EXIST. TREE.
9+25 LT TO 9+36 LT	REMOVE AND RECONSTRUCT EXIST. ROCK WALL.
9+32 RT	EXCAVATE AND REMOVE EXIST. WATER SERVICE FROM 6" CI LINE. CONNECT NEW SERVICE TO 12" CI WATER MAIN ON WEST SIDE OF ROAD.
9+40 LT TO 9+57 LT	REMOVE EXIST. WOOD CURB.
9+45 LT	EXIST. CB (TO BE REMOVED)
9+70 LT TO 13+18 LT	REMOVE EXIST. LEDGE AS REQUIRED
9+90 RT	CONSTRUCT NEW PEDESTRIAN LANDING AREA
10+42 RT	EXCAVATE AND REMOVE EXIST. WATER SERVICE FROM 6" CI LINE. CONNECT NEW SERVICE TO 12" CI WATER MAIN ON WEST SIDE OF ROAD.
10+54 LT	REPLACE EXIST. HYDRANT
10+59 RT	EXIST. CB (TO BE REPLACED)
10+63 LT	EXIST. CB (TO BE REMOVED)
10+69 LT	EXIST. UTILITY POLES TO BE RELOCATED
10+88 RT	EXCAVATE AND REMOVE EXIST. WATER SERVICE FROM 6" CI LINE. CONNECT NEW SERVICE TO 12" CI WATER MAIN ON WEST SIDE OF ROAD.
11+15 LT TO 11+25 LT	COORDINATE WITH PROPERTY OWNER ON REMOVAL AND REPLANTING OF EXISTING PLANTINGS
11+47 RT	REPLACE EXIST. MH FRAME AND COVER AND BRING COVER TO GRADE.
11+50 LT TO 12+00 LT	REMOVE EXIST. GRAN. BLOCK WALL AND RECONSTRUCT
11+70 LT	EXIST. UTILITY POLES TO BE RELOCATED
11+75.5 RT	EXCAVATE AND REMOVE EXIST. WATER SERVICE FROM 6" CI LINE. CONNECT NEW SERVICE TO 12" CI WATER MAIN ON WEST SIDE OF ROAD.
12+22 LT TO 13+03 LT	CUT AND REMOVE EXIST. TREES AND BRUSH AS REQUIRED
13+28	EXIST. UTILITY POLES TO BE RELOCATED

**REMOVAL SCHEDULE**

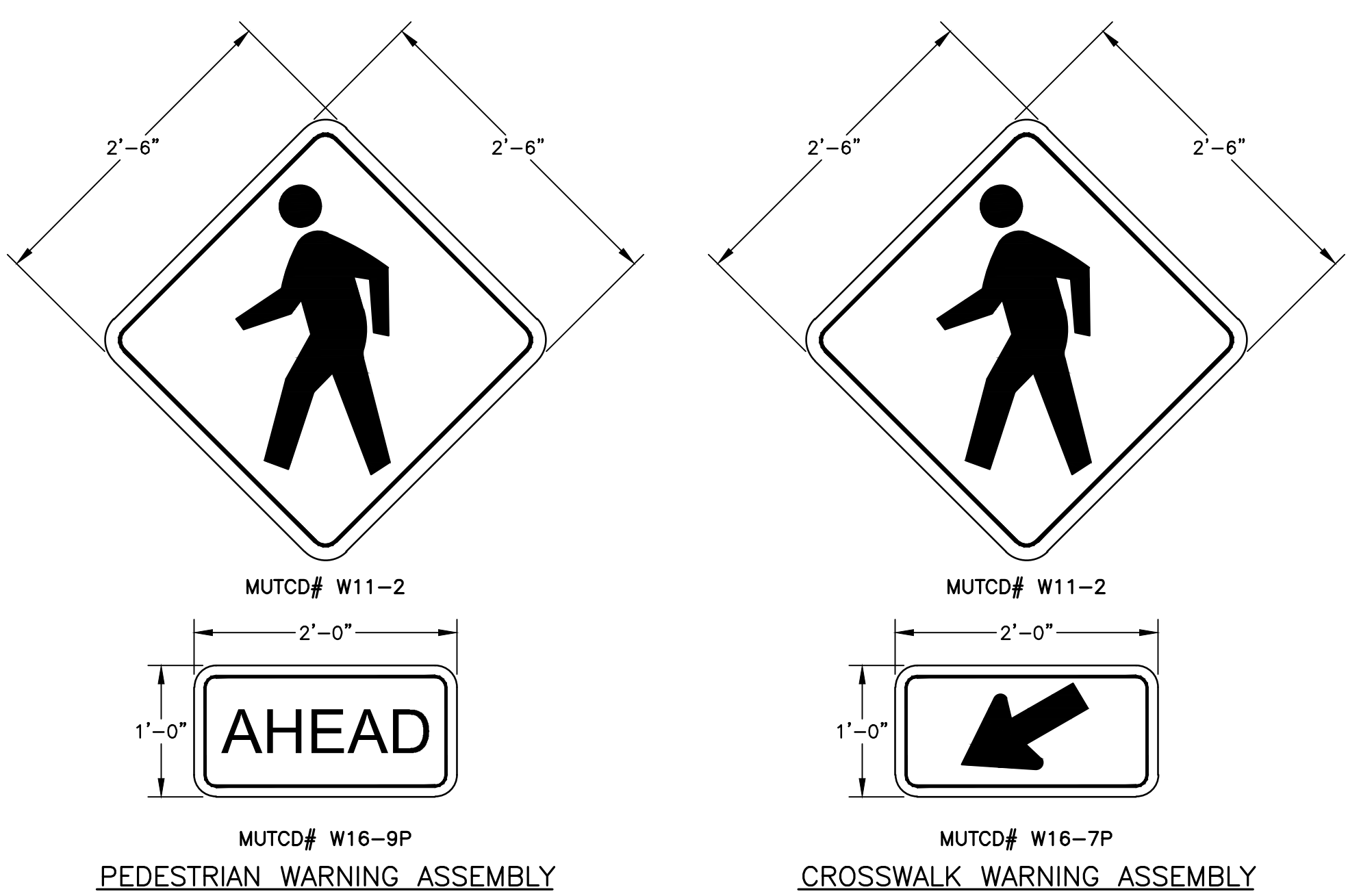


**TREE PLANTING DETAIL**

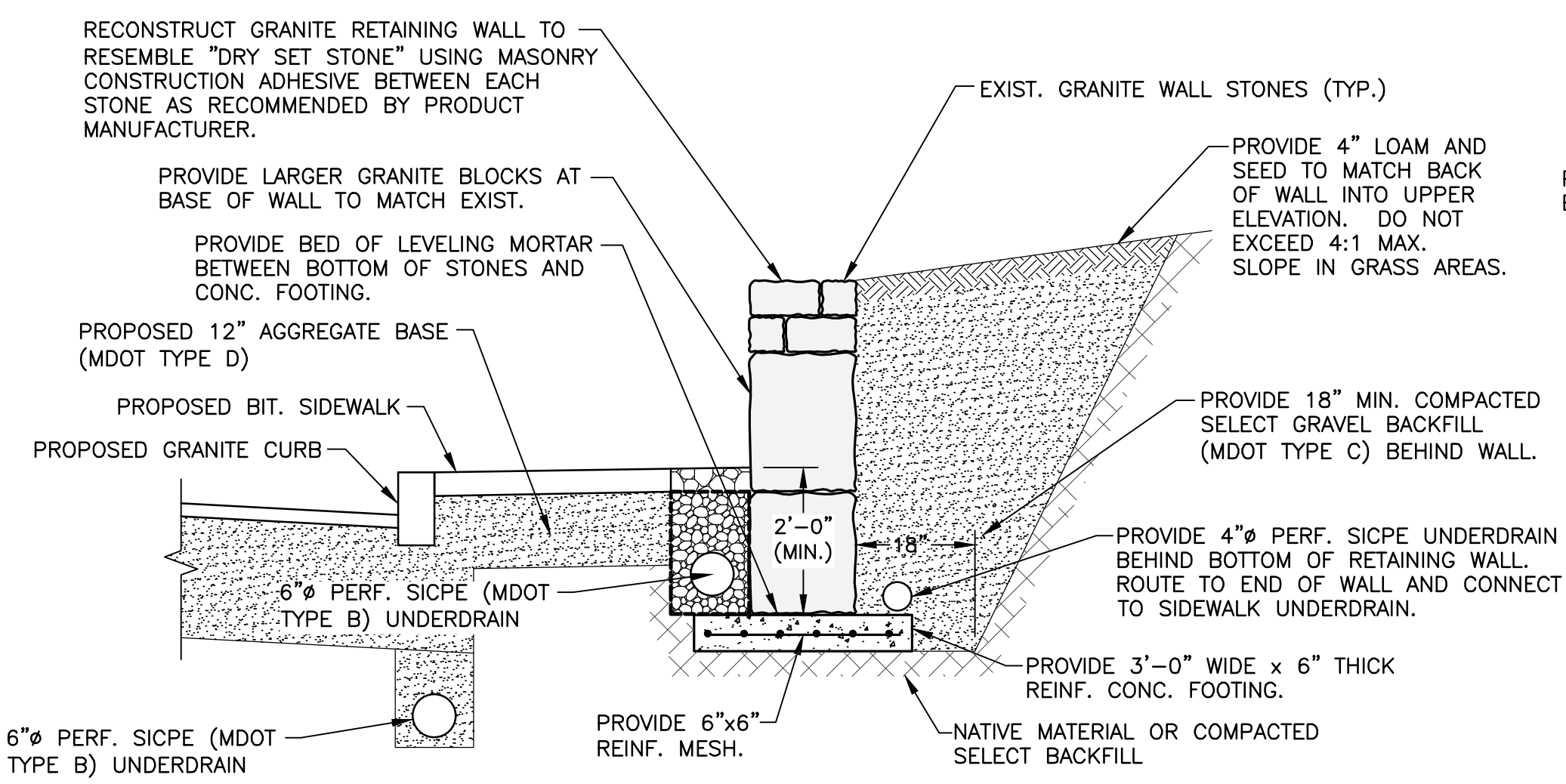


**NOTE:**  
5'-0" MIN. ABOVE EDGE OF TRAVEL WAY WHERE THERE IS NO SIDEWALK. 7'-0" MIN. ABOVE SIDEWALK LOCATION.

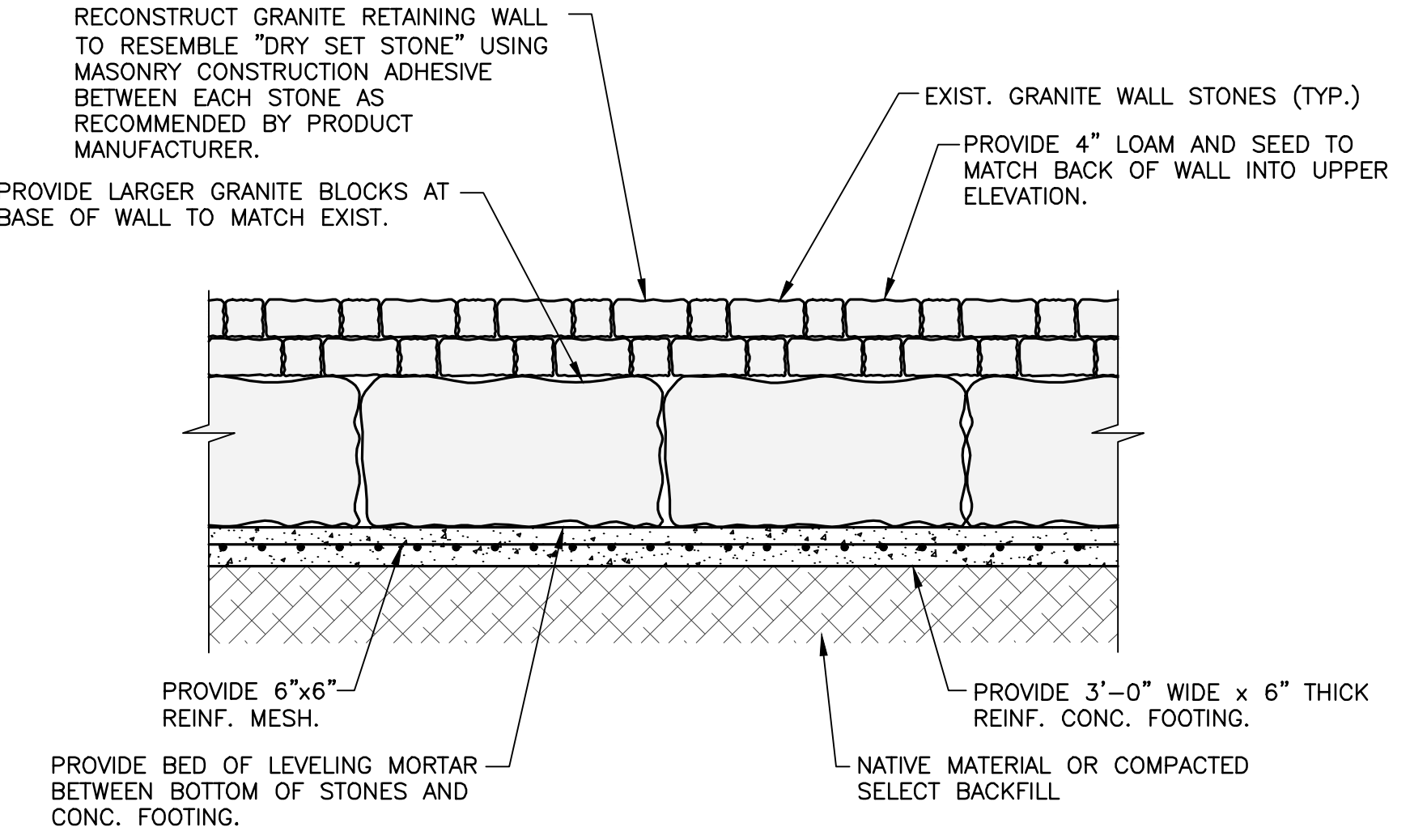
**SIGN POST DETAIL**



**MISCELLANEOUS STREET SIGN DETAILS**



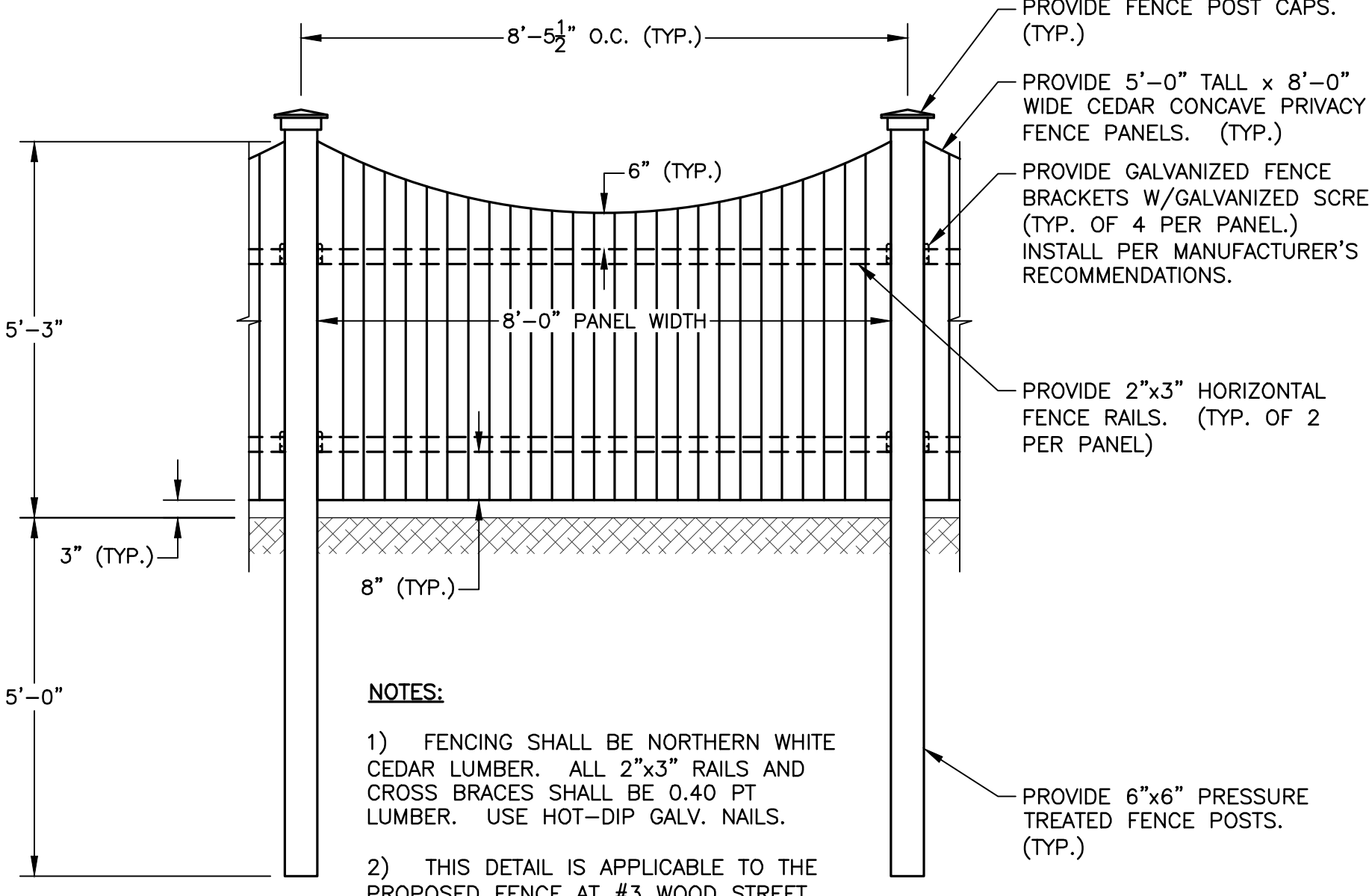
**SECTION**



**ELEVATION**

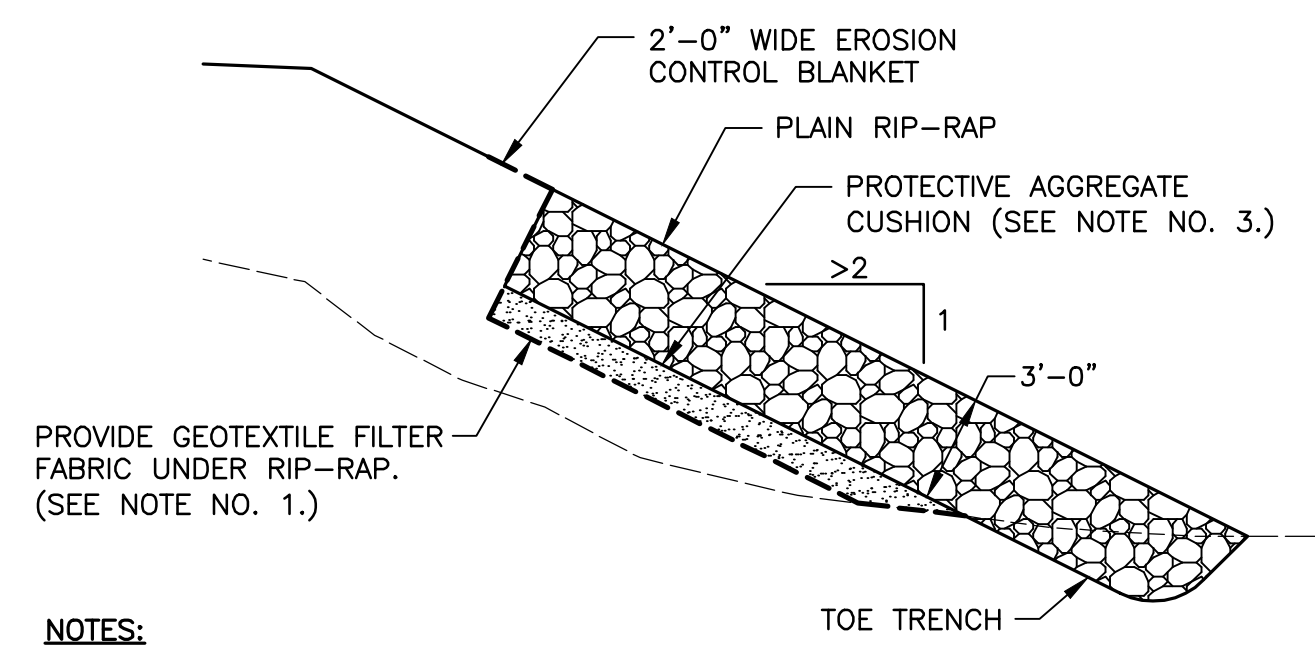
**NOTES:**  
1) THIS DETAIL IS APPLICABLE TO THE RELOCATED GRANITE RETAINING WALL FROM STA. 4+20 LT. TO STA. 4+45 LT. ONLY.  
2) CONTRACTOR SHALL REUSE EXISTING BLOCK AND PROVIDE NEW ADDITIONAL BLOCKS AS REQUIRED TO MATCH EXISTING FOR TALLER WALL HEIGHT AND MATCH INTO UPPER SLOPE.  
3) PROPOSED SIDEWALK AND UNDERDRAIN OMITTED FROM ELEVATION VIEW FOR CLARITY.

**RETAINING WALL DETAIL**



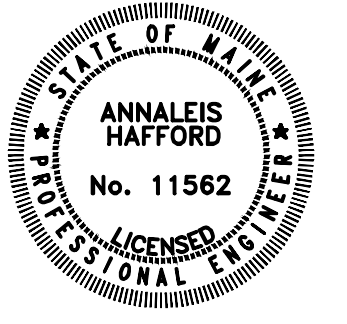
**NOTES:**  
1) FENCING SHALL BE NORTHERN WHITE CEDAR LUMBER. ALL 2"x3" RAILS AND CROSS BRACES SHALL BE 0.40 PT LUMBER. USE HOT-DIP GALV. NAILS.  
2) THIS DETAIL IS APPLICABLE TO THE PROPOSED FENCE AT #3 WOOD STREET (N/F BRIGGS) ONLY.

**CEDAR CONCAVE PRIVACY FENCE DETAIL**



**NOTES:**  
1) GEOTEXTILE SHALL BE CLASS 1, NON-WOVEN, EROSION CONTROL GEOTEXTILE (LOOSELY PLACED) MEETING THE REQUIREMENTS OF MAINE DOT STANDARD SPECIFICATION 722.03.  
2) REFER TO MAINE DOT STANDARD DETAIL 620(05) FOR SPECIFIC DETAILS ON GEOTEXTILE PLACEMENT.  
3) PROTECTIVE AGGREGATE CUSHION SHALL BE A MINIMUM OF 12" THICK AND SHALL MEET THE REQUIREMENTS OF MAINE DOT SPECIFICATION 703.19.

**RIP-RAP SIDESLOPE DETAIL**



<b>OLVER ASSOCIATES INC.</b> ENVIRONMENTAL ENGINEERS 200 MAIN STREET WINTERPORT, MAINE	
MAY, 2022	MISC. REVISIONS PER MDOT COMMENTS
DATE	ADDITION OR REVISION
DES. BY: NWD/EWH	DR. BY: NWD CK. BY: AH
TOWN OF SOUTHWEST HARBOR, MAINE	
MAIN STREET SIDEWALK, DRAINAGE, WATER, AND SEWER IMPROVEMENTS	
<b>CIVIL DETAILS</b>	
SCALE: NONE	PROJECT NO.: 1356
DATE: MAY, 2022	SHEET: C-24







Town, County, State \_\_\_\_\_  
 Approx. Property Lines \_\_\_\_\_ P.L.  
 Existing Right of Way \_\_\_\_\_  
 Limits of Wrought Portion \_\_\_\_\_ L.O.W.P.  
 Control Of Access \_\_\_\_\_ C.O.A.  
 New Right of Way \_\_\_\_\_  
 New Easement \_\_\_\_\_  
 New Temporary Rights \_\_\_\_\_  
 New R/W Within Existing R/W \_\_\_\_\_

New R/W Along Existing R/W \_\_\_\_\_  
 Building \_\_\_\_\_  
 Trees Conifer \_\_\_\_\_  
 Tree Line \_\_\_\_\_  
 Water Edge \_\_\_\_\_  
 Ledge \_\_\_\_\_  
 Fence CHAIN LINK \_\_\_\_\_  
 Sign \_\_\_\_\_  
 Clearing Limit Line CLL \_\_\_\_\_  
 Bush Line \_\_\_\_\_  
 Rock/Boulder \_\_\_\_\_  
 BARB WIRE \_\_\_\_\_  
 Well \_\_\_\_\_  
 Flag Pole \_\_\_\_\_  
 STOCKADE \_\_\_\_\_  
 Mailbox \_\_\_\_\_

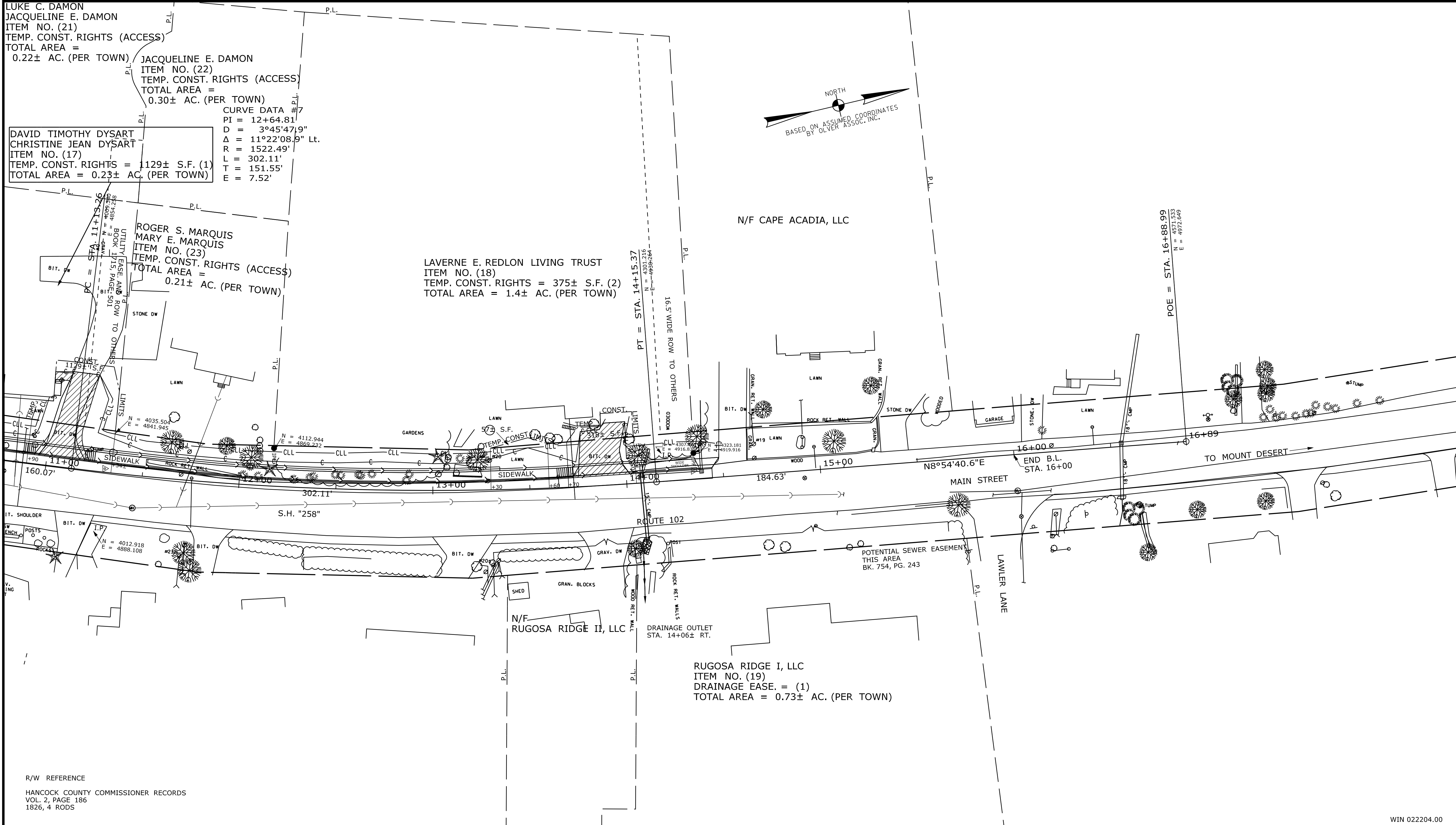
**PLAN LEGEND**

	Existing	Proposed
Sanitary Sewer	---	---
Telephone Line	---	---
Electric Line	---	---
Water Line	---	---
Underdrain Line	---	---
Gas Line	---	---
Guardrail	---	---
Culvert	---	---
Traveled Way	---	---
Ditch	---	---
Catch Basin	---	---
Manhole	---	---
Sewer Manhole	---	---
Utility Pole	---	---
Fire Hydrant	---	---
Curbing	---	---

Cut Line C-C \_\_\_\_\_  
 Stonewall \_\_\_\_\_  
 Baseline 10+00 \_\_\_\_\_  
 Monument \_\_\_\_\_  
 Iron Rod Found IRF \_\_\_\_\_  
 Replacement Pin Set \_\_\_\_\_  
 Fill Line F-F \_\_\_\_\_  
 Retaining Wall \_\_\_\_\_  
 Traverse Point \_\_\_\_\_  
 Pipe Found IPF \_\_\_\_\_

STATE OF MAINE  
 REGISTRY OF DEEDS  
 COUNTY \_\_\_\_\_  
 RECEIVED \_\_\_\_\_  
 at \_\_\_\_\_ h \_\_\_\_\_ m \_\_\_\_\_ M and recorded in  
 Plan Book \_\_\_\_\_, Page \_\_\_\_\_  
 Attest: \_\_\_\_\_ REGISTER

THIS PLAN WAS PREPARED IN CONNECTION WITH THE DEPARTMENT'S ACQUISITION OF REAL PROPERTY FOR TRANSPORTATION PURPOSES. IT CANNOT BE USED TO ESTABLISH LEGAL BOUNDARIES BETWEEN ADJACENT PROPERTY OWNERS.



REVISIONS

NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK

NO.	GRANTOR	PAGE	COUNTY RECORD
NO.	INSTRUMENT	DATE	BOOK PAGE

BRUCE A. VAN NOTE  
 COMMISSIONER  
 JOYCE NOEL TAYLOR  
 CHIEF ENGINEER  
 DATE \_\_\_\_\_

STATE HIGHWAY "258"  
 ROUTE 102 MAIN STREET  
 SOUTHWEST HARBOR HANCOCK COUNTY  
 FEDERAL AID PROJECT NO. 2220400  
 JUNE 2020  
 SCALE 1" = 25'

SHEET NUMBER  
**30**  
 OF 30

ITEM	TECH	CHECKED
EXISTING CONDITION PLAN	BDM	
FINAL RIGHT OF WAY	BDM	
AREAS	BDM	

STATE OF MAINE  
 DEPARTMENT OF TRANSPORTATION  
 16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016 - 207-624-3460  
 SOUTHWEST HARBOR  
 RIGHT OF WAY MAP

Filename: \$file\$  
 Division: \$wkgroup\$  
 Username: \$user\$  
 Date: \$date\$

WIN 022204.00