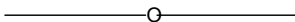
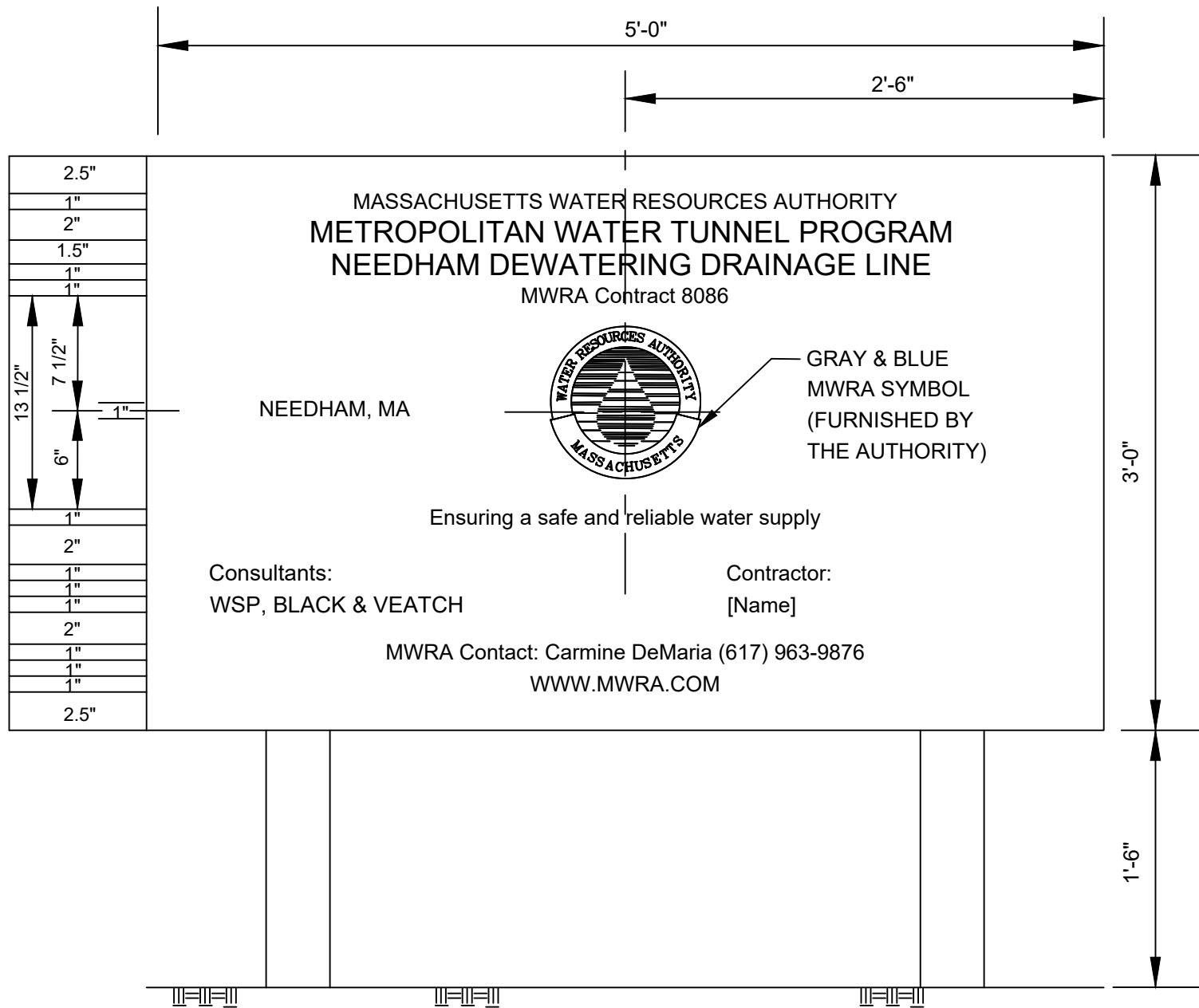


LEGEND (EXISTING)		LEGEND (PROPOSED)	
	MONITORING WELL		CHAINLINK FENCE
	BUSH/SHRUB		LIMITS OF DISTURBANCE
	TREE		LIMITS OF MILL AND OVERLAY
	BENCHMARK		SILT SOCK
	CONTROL/STATION		PROPOSED SEWER LINE
	FIRE HYDRANT		COFFER DAM
	GAS GATE/VALVE		SILT CURTAIN
	WATER GATE/VALVE		WORK, LAYDOWN, AND STAGING AREAS
	GAS METER	ABBREVIATIONS	
	ELECTRIC METER		DIAMETER
	ELECTRIC BOX	ABAN	ABANDONED
	ELECTRIC TRANSFORMER	AC	ASBESTOS CEMENT
	ELECTRIC GENERATOR	ANGLE PT	ANGLE POINT
	WETLAND FLAG	BS	BARE STEEL
	CATCH BASIN	BLDG	BUILDING
	WATER MANHOLE	BIT.	BITUMINOUS
	SEWER MANHOLE	BO	BLOW OFF
	STORM DRAIN MANHOLE	CB	CATCH BASIN
	TELE/COMMUNICATION MANHOLE	CI	CAST IRON
	GENERAL MANHOLE	CIPP	CURED IN PLACE PIPE
	ELECTRIC MANHOLE	CL	CLAY
	UTILITY POLE	CLF	CHAIN LINK FENCE
	UTILITY GUY POLE	CLSM	CONTROLLED LOW STRENGTH MATERIAL
	GUY WIRE	CO	CLEAN OUT
	SIGN	CONC	CONCRETE
	MAILBOX	CS	CARBON STEEL
	FLAG POLE	CU	COPPER
	LIGHT POLE	CZSP	CONSTRUCTION ZONE SAFETY PLANS
	CONTOUR LINE	DBYL	DOUBLE YELLOW LINE
	SPOT GRADE	DH	DRILL HOLE
	BURIED SEWER LINE	D.I.	DUCTILE IRON
	BURIED DRAINAGE LINE	DIP	DUCTILE IRON PIPE
	BURIED WATER LINE	DMH	DRAIN MANHOLE
	BURIED TELEPHONE LINE	DPW	DEPARTMENT OF PUBLIC WORKS
	BURIED GAS LINE	DWG	DRAWING
	OVERHEAD WIRE	EL	ELEVATION
	PROPERTY LINE	ELEC.	ELECTRIC
	ABUTTERS PROPERTY LINE	EOP	EDGE OF PAVEMENT
	EASEMENT LINE	EXIST	EXISTING
	CHAIN LINK FENCE	FDE	FINAL DESIGN ENGINEER
	WOOD FENCE	FL	FLANGED
	GUARDRAIL	FM	FORCE MAIN
	EXISTING TREELINE	FP	FIBER PIPE
	WETLAND LINE	GC	GRANITE CURB
	LIMITS OF FIELD SURVEY	GG	GAS GATE
		HDPE	HIGH DENSITY POLYETHYLENE
		HH	HAND HOLE
		HYD	HYDRANT
		INV	INVERT

- UTILITY AND GENERAL NOTES
1. ALL UNDERGROUND UTILITIES SHOWN WERE COMPILED USING FIELD SURVEY INFORMATION AND AVAILABLE RECORD INFORMATION. ACTUAL ON THE GROUND FIELD SURVEY PERFORMED BY MARTINEZ COUCH & ASSOCIATES.
 2. RECORD UTILITY INFORMATION FROM THE VARIOUS UTILITY COMPANIES AND PUBLIC AGENCIES ARE APPROXIMATE ONLY AND ACTUAL LOCATIONS MUST BE DETERMINED AND CONFIRMED BY CONTRACTOR IN THE FIELD.
 3. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE MUST BE NOTIFIED BY THE CONTRACTOR, INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN, (SEE CHAPTER 370, ACTS OF 1963, MASSACHUSETTS) PRIOR TO DESIGNING, EXCAVATING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORING OR REPAVING.
 4. IN ADDITION TO THE UTILITIES COVERED BY THE DIG-SAFE PROGRAM, CONTACT THE FOLLOWING AGENCIES THREE WORKING DAYS PRIOR TO ANY EXCAVATION AND NOTIFY THEM OF THE WORK:
 - A. NEEDHAM DEPARTMENT OF PUBLIC WORKS, WATER, SEWER, DRAIN, TRAFFIC AND OTHER AGENCIES RESPONSIBLE FOR LOCATION OF UTILITIES. NEEDHAM DEPARTMENT OF PUBLIC WORKS: (781)-455-7550
 - B. MASSACHUSETTS WATER RESOURCES AUTHORITY: (617) 305-5029
 - C. MASSACHUSETTS DEPARTMENT OF TRANSPORTATION (MassDOT).
 5. ALL STREET LIGHTING AND RESIDENTIAL ELECTRIC LINES CONSIST OF 1 1/2" TO 4" CONDUIT, UNLESS OTHERWISE NOTED ON PLAN VIEW AND MAY NOT BE SHOWN.
 6. THE REPLACEMENT OR RELOCATION OF ALL UTILITIES (UNDERGROUND, SURFACE, OR OVERHEAD) ARE TO BE COORDINATED WITH THE OWNER OF EACH UTILITY BY THE CONTRACTOR PRIOR TO UNDERTAKING ANY CONSTRUCTION OPERATIONS. NEEDHAM DPW PERMITS ARE REQUIRED FOR ALL WORK ASSOCIATED WITH THE TOWN OF NEEDHAM'S WATER, SEWER, AND DRAIN SYSTEMS.
 7. SUBSURFACE UTILITIES DEPICTED HEREIN CONFORM TO QUALITY LEVEL C, UNLESS STATED OTHERWISE, AS DESCRIBED IN THE AMERICAN SOCIETY OF CIVIL ENGINEERS STANDARD C/ASCE 38-02 "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".
 8. INVERTS SHOWN ON PLAN ARE NOT GUARANTEED TO BE ACCURATE. DUE TO THE LIMITATIONS OF FIELD OBSERVATION AND SURVEY TECHNIQUES THE INVERTS ARE SHOWN AS APPROXIMATE ONLY AND ARE NOT WARRANTED TO BE CORRECT. CONTRACTOR SHALL PERFORM FIELD INVESTIGATIONS AND MEASUREMENTS NECESSARY TO OBTAIN ACCURATE MEASUREMENTS.
 9. THE EXISTING CONDITIONS PLAN IS TO BE USED FOR THE SPECIFIED PROJECT ONLY AND IS NOT WARRANTED TO BE COMPLETE FOR ANY OTHER FUTURE PROJECTS.
 10. EXISTING UTILITIES AND SURFACE FEATURES ARE SHOWN AS SCREENED. PROPOSED WORK IS SHOWN IN BOLD.
 11. ENSURE THAT ALL PIPES, CATCH BASINS, MANHOLES, SWALES, ETC. WITHIN AND NEAR THE AREA OF WORK ARE KEPT FREE FROM MATERIALS THAT WOULD HAMPER THE PERFORMANCE OF THE DRAINAGE SYSTEMS. FURNISH AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL DEVICES IN ACCORDANCE WITH SPECIFICATION SECTION 02370-EROSION AND SEDIMENTATION CONTROL. UPON COMPLETION OF CONSTRUCTION, REMOVE ACCUMULATED SEDIMENT AND REMOVE CONTROL DEVICES. THE CONTRACTOR MUST, ALONG WITH THE ONSITE INSPECTION, CHECK & MAKE SURE ALL MANHOLES & CATCH BASINS ARE SEDIMENT FREE PRIOR TO FINAL COMPLETION.
 12. LOCATE ALL EXISTING UNDERGROUND AND ABOVE-GROUND UTILITIES AND/OR ABANDONED UNDERGROUND STRUCTURES WITHIN AND AROUND THE FOOTPRINT OF THE SUPPORT OF EXCAVATION AND NOTIFY THE AUTHORITY OF ANY OBSTRUCTIONS TO FOUNDATIONS OR SUPPORT OF EXCAVATION BEFORE CONSTRUCTION COMMENCES. REMOVE AND DISPOSE OF ABANDONED UTILITIES, FOUNDATIONS, AND OTHER OBSTRUCTIONS CONFLICTING WITH EXCAVATION OR INSTALLATION OF SUPPORT OF EXCAVATION. IF UNKNOWN EXISTING UTILITIES ARE ENCOUNTERED, NOTIFY THE AUTHORITY FOR DIRECTIONS.
 13. PROTECT ALL BUILDINGS, STRUCTURES, AND UTILITIES, PUBLIC OR PRIVATE, INCLUDING POLES, SIGNS, SERVICES TO BUILDINGS, UTILITIES IN THE STREET, GAS PIPES, WATER PIPES, HYDRANTS, SEWERS, DRAINS, ELECTRIC AND TELEPHONE CABLES, AND TRAFFIC SIGNAL AND LOOP DETECTOR WIRES. ANY DAMAGE SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE AUTHORITY.
 14. THE LIMITS OF DISTURBANCE AS INDICATED ON THE CONTRACT DRAWINGS DEFINE THE GENERAL WORK ZONES WITHIN WHICH CONSTRUCTION ACTIVITIES BY CONTRACTOR ARE AUTHORIZED. FOR THE PURPOSES OF DEFINING LIMITS OF DISTURBANCE, CONSTRUCTION ACTIVITIES SHALL INCLUDE PAVEMENT REMOVAL AND PLACEMENT, EXCAVATION AND BACKFILL, SUPPORT OF EXCAVATION INSTALLATION AND REMOVAL, MATERIAL UNLOADING AND STAGING, AND ANY OTHER ACTIVITIES THAT DISTURB OR DAMAGE EXISTING SURFACES. THE CONTRACTOR MUST CONTROL THE WORK WITHIN THE LIMIT OF DISTURBANCE, NO CONSTRUCTION ACTIVITIES ARE ALLOWED OUTSIDE THE LIMIT OF DISTURBANCE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE AUTHORITY. CONTRACTOR ACTIVITIES TO CONTROL THE CONSTRUCTION LIMIT OF DISTURBANCE INCLUDING EROSION AND SEDIMENT CONTROLS AND TRAFFIC CONTROL DEVICES ARE ALLOWED BEYOND THE LIMITS OF DISTURBANCE AS SHOWN ON THE DRAWINGS. CONTRACTOR IS RESPONSIBLE TO RESTORE ALL SURFACES DISTURBED BY THE WORK.
 15. MAINTAIN ALL FLOWS IN WATER, SEWER, AND DRAIN LINE UTILITIES.
 16. OBTAIN AND COMPLY WITH ALL PERMITS AS REQUIRED IN SECTION 01060 PERMITS AND REGULATORY REQUIREMENTS.
 17. MILL AND OVERLAY TO EXTEND THE FULL WIDTH OF PAVEMENT WITHIN THE LIMITS OF DISTURBANCE.

GENERAL SURVEY NOTES

1. THIS MAP HAS BEEN PREPARED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE REGISTRY OF DEEDS AND THE PROCEDURAL AND TECHNICAL STANDARDS FOR THE PRACTICE OF LAND SURVEYING IN THE COMMONWEALTH OF MASSACHUSETTS. THIS SURVEY CONFORMS TO THE HORIZONTAL ACCURACY OF SECOND ORDER, CLASS II. STREET LINES DEPICTED HEREON CONFORM TO THE HORIZONTAL ACCURACY OF CLASS I.
2. HORIZONTAL CONTROL IS BASED ON NAD 83 STATE COORDINATE SYSTEM (SPCS83) - MASSACHUSETTS MAINLAND, US FEET.
3. ELEVATIONS ARE BASED ON BOSTON CITY BASE (BCB) DATUM. THE BCB DATUM ELEVATION OF 6.46 FEET EQUALS 0.00 FEET NAVD 88.
4. WETLAND FLAGS WERE DELINEATED AND FIELD LOCATED IN AUGUST 2025.
5. THE STRUCTURE SYMBOLS DEPICTED HEREON REPRESENT THE STRUCTURE TYPE AND APPROXIMATE LOCATION. THE ACTUAL SIZE, DIMENSION, CONFIGURATION OR LOCATION MAY VARY.
6. NOT ALL IMPROVEMENTS ARE SHOWN.



NOTES:

1. STRUCTURE AND FRAMING: MAY BE NEW OR USED, WOOD OR METAL, IN SOUND CONDITION SUITABLE FOR SPECIFIED FINISH.
2. SIGN SURFACES SHALL BE EXTERIOR SOFTWOOD PLYWOOD WITH MEDIUM DENSITY OVERLAY, STANDARD LARGE SIZES TO MINIMIZE JOINTS.
3. SIGN THICKNESS SHALL BE AS REQUIRED BY STANDARDS TO SPAN FRAMING MEMBERS AND TO PROVIDE EVEN, SMOOTH SURFACE WITHOUT WAVES OR BUCKLES.
3. HARDWARE SHALL BE WROUGHT, GALVANIZED.
4. APPLY A COAT OF WHITE ALKYD PRIMER WOOD OIL TO ENTIRE WOODWORK OF SIGN.
5. GIVE TWO (2) COATS OF WHITE EXTERIOR LATEX PAINT TO SIGN INCLUDING FRAMEWORK.

PROJECT IDENTIFICATION SIGN A

BID DOCUMENTS

REFERENCE:					CONTRACT NO. : 8086	CAD FILE NO. : 3-3-G-003		 MASSACHUSETTS WATER RESOURCES AUTHORITY	METROPOLITAN WATER TUNNEL PROGRAM CONTRACT PACKAGE 3.3 NEEDHAM DEWATERING DRAINAGE LINE	DRAWING NO. G-003
					ACCESSION NO. : NOT USED	SECTION NO. :				
					DATE: SEPTEMBER, 2026	DESIGNED BY: ANW DRAWN BY: CJG				
						CHECKED BY: KRR				
					SCALE: NOT TO SCALE	APPROVED BY: CJG				
	NO.	DATE	BY	CHK'D	REVISION					