

CITY OF NORTH ADAMS, MASSACHUSETTS

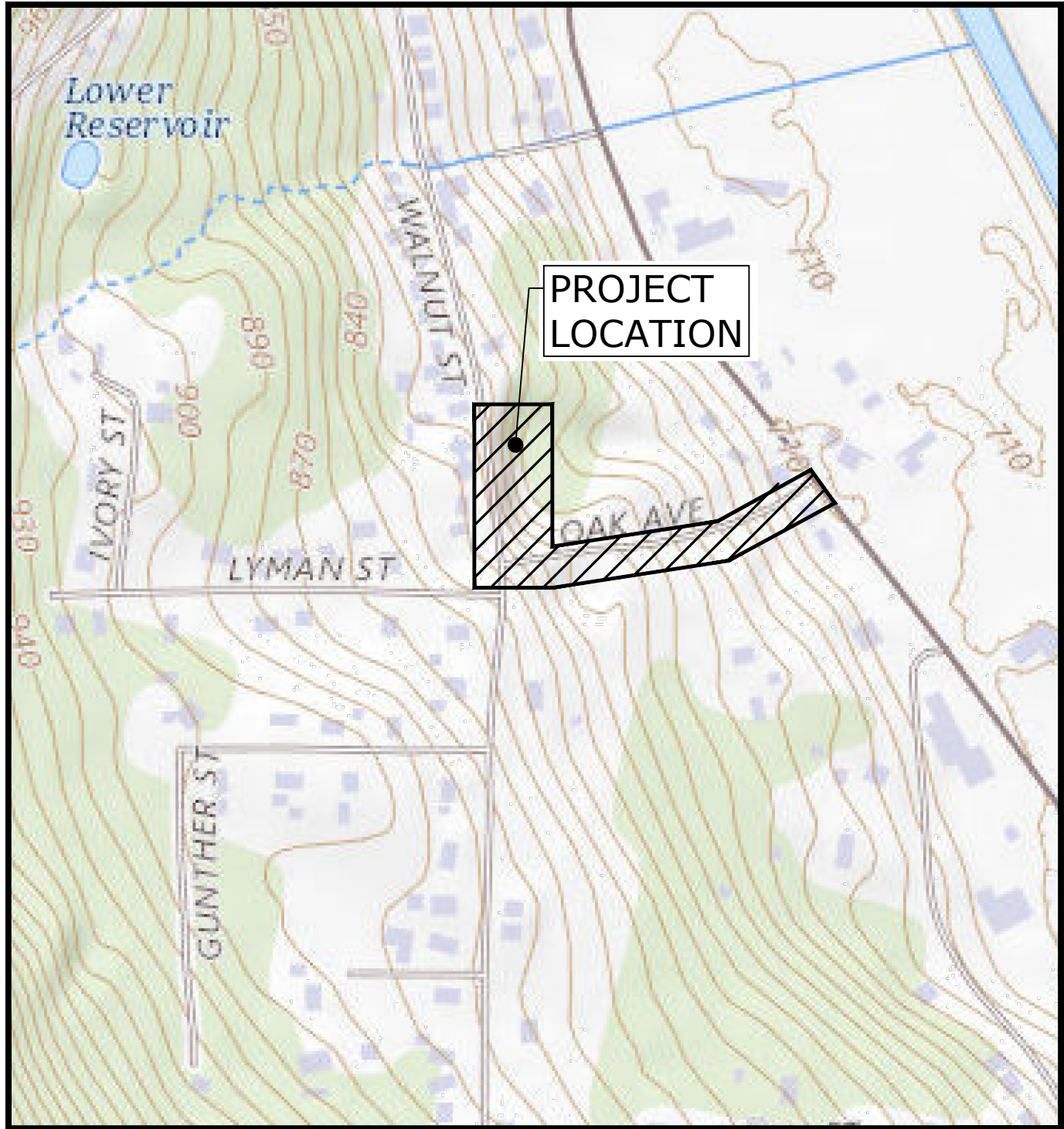
WALNUT STREET RETAINING

WALL REPAIRS

NA-2026-004

JULY 2026

LIST OF DRAWINGS		
SHEET NO.	DRAWING NO.	DRAWING TITLE
GENERAL		
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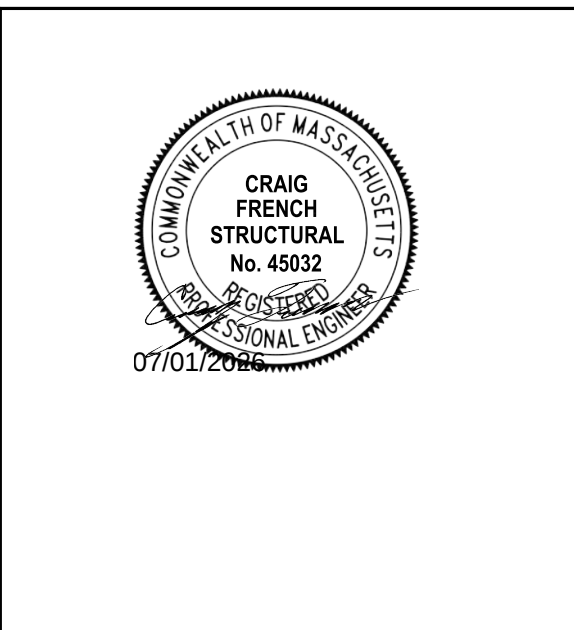


LOCATION MAP

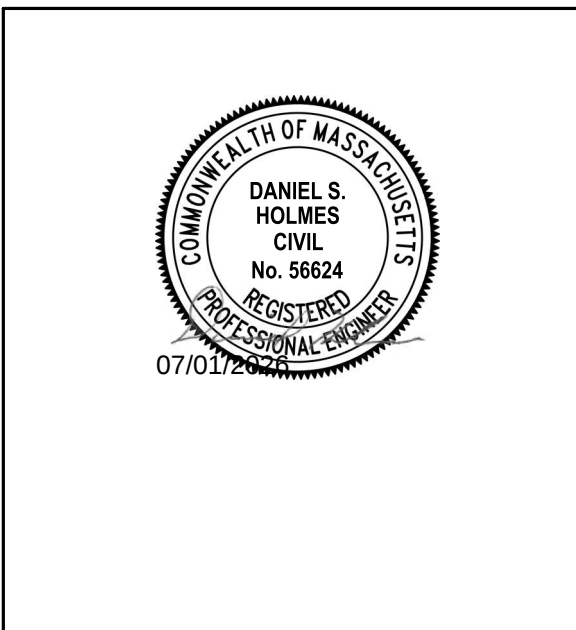
SCALE: 1" = 300'

PREPARED BY:

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PREPARED FOR:

CITY OF NORTH ADAMS

DEPARTMENT OF PUBLIC SERVICES

TIMOTHY LESCARBEAU, COMMISSIONER

COMPLETE SET 26 SHEETS

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File: C:\Users\jkm\OneDrive\Documents\Walnut Street Retaining Wall Repairs\Drawings - Figures\Figures\General.dwg
Figure 11: Walnut Street Retaining Wall Repairs\Drawings - Figures\Figures\General.dwg

LEGEND

DESCRIPTION	EXISTING	PROPOSED
PROPERTY LINE	----	----
RIGHT-OF-WAY LINE	----	----
EASEMENT LINE	----	----
LIMITS OF WORK	----	----
INTERMEDIATE CONTOURS	----	----
INDEX CONTOURS	--- 25 ---	--- 25 ---
MAGNITUDE & DIRECTION OF SLOPE	SD SD	0.0%
STORM DRAIN	SD SD	SD SD
GRAVITY SANITARY SEWER	SS SS	SS SS
WATER SERVICE	W W	W W
GAS SERVICE	G G	G G
OVERHEAD UTILITY (UNSPECIFIED)	OHW OHW	OHW OHW
CURB	=====	=====
EDGE OF PAVEMENT	=====	=====
GRAVEL ROAD	-----	-----
SIDEWALK	-----	-----
RETAINING WALL	=====	=====
CHAIN LINK FENCE	x x x x x	x x x x x
GUARDRAIL	-o-o-o-o-	-o-o-o-o-
STORM DRAIN STRUCTURES	MANHOLE CATCH BASIN	MANHOLE CATCH BASIN
SANITARY SEWER MANHOLE	S	S
WATER SERVICE STRUCTURES	HYDRANT MANHOLE VALVE	HYDRANT VALVE
GAS SERVICE STRUCTURES	MANHOLE VALVE GG	MANHOLE VALVE
ELECTRIC SERVICE STRUCTURES	UTILITY CO. POLE # MANHOLE LIGHT	UTILITY CO. POLE # LIGHT
TREELINE	~~~~~	~~~~~
TREE	EVERGREEN DECIDUOUS	EVERGREEN DECIDUOUS
SLOPE STABILIZATION		

LEGEND

DEMOLITION / GEOTECHNICAL	
EROSION & SEDIMENT CONTROL	-----
UTILITY TO BE DEMOLISHED	·xxxxxxxxxxxxxxxxxxxx·
ITEM TO BE DEMOLISHED	XXXXXX
TEST PIT	+
BORING	+

ABBREVIATIONS

ABDN('D)	ABANDON(ED)
AC	ASBESTOS CEMENT PIPE
BC	BITUMINOUS CURB
BIT	BITUMINOUS
BL	BASELINE
BLDG	BUILDING
BND	BOUND
BOC	BOTTOM OF CURB
BOT	BOTTOM
BS	BOTTOM OF STEP
BW	BOTTOM OF WALL
CATV	CABLE TELEVISION
CB	CATCH BASIN
CEM	CEMENT
CL	CENTERLINE
CLF	CHAIN LINK FENCE
CO	CLEAN OUT
CONC	CONCRETE
CPP	CORRUGATED POLYETHYLENE PIPE
CY	CUBIC YARD
DH	DRILL HOLE
DI	DUCTILE IRON PIPE
DIA	DIAMETER
DMH	DRAIN MANHOLE
E	EAST
EF	EACH FACE
EG	EXISTING GRADE
EL/ELEV	ELEVATION
ELEC	ELECTRIC
EMH	ELECTRIC MANHOLE
EOP	EDGE OF PAVEMENT
EW	EACH WAY
EXIST	EXISTING
FES	FLARED END SECTION
G	GAS
GG	GAS GATE
GRAN	GRANITE
HDPE	HIGH DENSITY POLYETHYLENE
HMA	HOT MIX ASPHALT
HYD	HYDRANT
IN	INCHES
INV	INVERT
IP	INTERMEDIATE PRESSURE
IPF	IRON PIN FOUND
L	LENGTH OF CURB
LP	LOW PRESSURE
LT	LEFT
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MON	MONUMENT
MJ	MECHANICAL JOINT

ABBREVIATIONS CONT'D

N	NORTH
NITC	NOT IN THIS CONTRACT
NTS	NOT TO SCALE
N/A	NOT APPLICABLE
N/F	NOW OR FORMERLY
OC	ON CENTER
OCS	OUTLET CONTROL STRUCTURE
OH	OVERHEAD
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PCPP	PERFORATED CORRUGATED POLYETHYLENE PIPE
PERF	PERFORATED
PI	POINT OF INTERSECTION
PRC	POINT OF REVERSE CURVATURE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PVC	POLYVINYLCHLORIDE
PVMT	PAVEMENT
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REV	REVISION
ROW	RIGHT OF WAY
RT	RIGHT
R&D	REMOVE AND DISPOSE
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
S	SOUTH
SAN	SANITARY
SCH	SCHEDULE
SF	SQUARE FOOT
SMH	SEWER MANHOLE
SS	STAINLESS STEEL
STA	STATION
STL	STEEL
STRM	STORM
T	TANGENT LENGTH
TC	TOP OF CURB
TEL	TEL-DATA
TP	TEST PIT
TS	TOP OF STEP
TW	TOP OF WALL
TYP	TYPICAL
UP	UTILITY POLE
W	WATER
WG	WATER GATE
WV	WATER VALVE
XFMR	TRANSFORMER



Walnut Street Retaining Wall Repairs

City of North Adams

North Adams, Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO: N0363-059		
DATE: JULY 2026		
FILE: N0363-059 General.dwg		
DRAWN BY: JKM, MLM		
DESIGNED/CHECKED BY: DSH, OJC		
APPROVED BY: CSF		

LEGEND & ABBREVIATIONS

SCALE: NO SCALE

Last Saved: 6/24/2026
Plotted On: Jun 29, 2026 - 3:29pm
By: Whittobene
Title: Walnut Street Retaining Wall Repairs
Drawing: Walnut Street Retaining Wall Repairs.dwg
Project: Walnut Street Retaining Wall Repairs

BASE PLAN NOTES

- THE EXISTING CONDITIONS INFORMATION SHOWN ON THE DRAWINGS IS BASED ON THE FOLLOWING:
 - SURVEY DRAWINGS PROVIDED BY WSP USA, INC. TITLED "TOPOGRAPHIC SURVEY INTERSECTION OF WALNUT STREET WITH OAK AVENUE" AND DATED 10/24/2023
 - FIELD INVESTIGATIONS PERFORMED BY TIGHE & BOND ON NOVEMBER 5 THROUGH NOVEMBER 8, 2022.
- UTILITY LOCATIONS SHOWN WERE PLOTTED FROM INFORMATION SUPPLIED BY RESPECTIVE UTILITY COMPANIES AND DATA OBTAINED FROM FIELD SURVEYS AND AS BUILT DRAWINGS. THE ACCURACY AND COMPLETENESS OF SUBSURFACE INFORMATION SHOWN ON THESE DRAWINGS IS NOT GUARANTEED. DETERMINE THE LOCATIONS AND ELEVATIONS OF ALL UTILITIES WHICH MAY AFFECT CONSTRUCTION OPERATIONS.
- SUB-SURFACE EXPLORATIONS WERE PERFORMED BY SEABOARD DRILLING, LLC. ON NOVEMBER 28 THROUGH DECEMBER 1, 2022 AND MARCH 31, 2026. BORING LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND BORING INFORMATION IS NOT GUARANTEED IN ANY WAY TO REPRESENT EXISTING CONDITIONS. BORING LOGS ARE INCLUDED IN THE PROJECT MANUAL FOR THE CONTRACTORS INFORMATION ONLY.
- THE DRAWINGS ARE BASED ON THE FOLLOWING DATUMS: HORIZONTAL-MASSACHUSETTS STATE PLANE COORDINATE SYSTEM NAD83; VERTICAL-NAVD88
- THE EXISTING CONDITIONS SHOWN ARE APPROXIMATE.
- OAK AVENUE RIGHT OF WAY IS BASED ON STREET MONUMENTATION AND LAYOUT PLANS. WALNUT STREET RIGHT OF WAY AND THE PROPERTY LINES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND ARE NOT BASED ON DEED OR PLAN RESEARCH.

GENERAL NOTES

- NOTIFY DIGSAFE AT 1-888-344-7233 AND OTHER UTILITY OWNERS IN THE AREA NOT ON THE DIGSAFE LIST AT LEAST 72 HOURS PRIOR TO ANY DIGGING, TRENCHING, ROCK REMOVAL, DEMOLITION, BORING, BACKFILLING, GRADING, LANDSCAPING, OR ANY OTHER EARTH MOVING OPERATIONS.
- LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. IN ADDITION, SOME UTILITIES MAY NOT BE SHOWN. DETERMINE THE EXACT LOCATION OF UTILITIES BY TEST PIT OR OTHER METHODS, AS NECESSARY TO PREVENT DAMAGE TO UTILITIES AND/OR INTERRUPTIONS IN UTILITY SERVICE. PERFORM TEST PIT EXCAVATIONS AND OTHER INVESTIGATIONS TO LOCATE UTILITIES, AND PROVIDE THIS INFORMATION TO THE ENGINEER, PRIOR TO CONSTRUCTING THE PROPOSED IMPROVEMENTS. LOCATE ALL EXISTING UTILITIES TO BE CROSSED BY HAND EXCAVATION.
- NOT ALL OF THE UTILITY SERVICES TO BUILDINGS ARE SHOWN. THE CONTRACTOR SHALL ANTICIPATE THAT EACH PROPERTY HAS SERVICE CONNECTIONS FOR THE VARIOUS UTILITIES.
- BOLD TEXT AND LINES INDICATE PROPOSED WORK. LIGHT TEXT AND LINES INDICATE APPROXIMATE EXISTING CONDITIONS.
- TIGHE & BOND ASSUMES NO RESPONSIBILITY FOR ANY ISSUES, LEGAL OR OTHERWISE, RESULTING FROM CHANGES MADE TO THESE DRAWINGS WITHOUT WRITTEN AUTHORIZATION FROM TIGHE & BOND.
- EXCAVATE ADDITIONAL TEST PITS TO LOCATE EXISTING UTILITIES AS DIRECTED OR APPROVED BY THE ENGINEER.
- NOTIFY THE ENGINEER OF ANY UTILITIES IDENTIFIED DURING CONSTRUCTION THAT ARE NOT SHOWN ON THE DRAWINGS OR THAT DIFFER IN SIZE OR MATERIAL.
- THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY DURING THE PERFORMANCE OF THE WORK. SAFETY PROVISIONS SHALL COMPLY WITH OSHA AND OTHER APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS. THESE REQUIREMENTS SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS.
- OBTAIN, PAY FOR AND COMPLY WITH PERMITS, NOTICES AND FEES NECESSARY TO COMPLETE THE WORK. ARRANGE AND PAY FOR NECESSARY INSPECTIONS AND APPROVALS FROM THE JURISDICTIONAL AUTHORITIES.
- SHORE UTILITY TRENCHES WHERE FIELD CONDITIONS DICTATE AND/OR WHERE REQUIRED BY LOCAL, STATE AND FEDERAL HEALTH AND SAFETY CODES.
- FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IF FIELD CONDITIONS ARE OBSERVED THAT VARY SIGNIFICANTLY FROM THOSE SHOWN ON THE DRAWINGS, IMMEDIATELY NOTIFY THE ENGINEER IN WRITING FOR RESOLUTION OF THE CONFLICTING INFORMATION.
- PROTECT AND MAINTAIN ALL UTILITIES IN THE AREAS UNDER CONSTRUCTION DURING THE WORK. LEAVE ALL PIPES AND STRUCTURES WITHIN THE LIMITS OF THE CONTRACT IN A CLEAN AND OPERABLE CONDITION AT THE COMPLETION OF THE WORK. TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SAND AND SILT FROM DISTURBED AREAS FROM ENTERING THE DRAINAGE SYSTEM.
- NOTIFY THE ENGINEER IN WRITING OF ANY CONFLICT, ERROR, AMBIGUITY, OR DISCREPANCY WITH THE PLANS OR BETWEEN THE PLANS AND ANY APPLICABLE LAW, REGULATION, CODE, STANDARD SPECIFICATION, OR MANUFACTURER'S INSTRUCTIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR SUPPORT OF EXISTING UTILITIES AND REPAIR OR REPLACEMENT COSTS OF UTILITIES DAMAGED DURING CONSTRUCTION, WHETHER ABOVE OR BELOW GRADE. REPLACE DAMAGED UTILITIES IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER AND AT NO COST TO THE PROPERTY OWNER.
- TAKE NECESSARY MEASURES AND PROVIDE CONTINUOUS BARRIERS OF SUFFICIENT TYPE, SIZE, AND STRENGTH TO PREVENT ACCESS TO ALL WORK AND STAGING AREAS AT THE COMPLETION OF EACH DAYS WORK.
- NO OPEN TRENCHES WILL BE ALLOWED OVER NIGHT. THE USE OF ROAD PLATES TO PROTECT THE EXCAVATION WILL BE CONSIDERED UPON REQUEST, BUT BACKFILLING IS PREFERRED.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY TRAFFIC CONTROL/SAFETY DEVICES TO ENSURE SAFE VEHICULAR AND PEDESTRIAN ACCESS THROUGH THE WORK AREA, OR FOR SAFELY IMPLEMENTING DETOURS AROUND THE WORK AREA. PERFORM TRAFFIC CONTROL IN ACCORDANCE WITH THE CONTRACTOR'S APPROVED TRAFFIC CONTROL PLAN.
- MAINTAIN EMERGENCY ACCESS TO ALL PROPERTIES WITHIN THE PROJECT AREA AT ALL TIMES DURING CONSTRUCTION.
- WHEN WORKING IN THE ROAD, PROVIDE THE OWNER AND LOCAL FIRE/POLICE/SCHOOL AUTHORITIES A DETAILED PLAN OF APPROACH INDICATING METHODS OF PROPOSED TRAFFIC ROUTING ON A DAILY BASIS. PROVIDE COORDINATION TO ENSURE COMMUNICATION AND COORDINATION BETWEEN THE OWNER, CONTRACTOR AND LOCAL FIRE/POLICE/SCHOOL AUTHORITIES THROUGHOUT THE CONSTRUCTION PERIOD.
- REMOVE AND DISPOSE OF ALL CONSTRUCTION-RELATED WASTE MATERIALS AND DEBRIS IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS.
- THE TERM "DEMOLISH" USED ON THE DRAWINGS MEANS TO REMOVE AND DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- THE TERM "ABANDON" USED ON THE DRAWINGS MEANS TO LEAVE IN PLACE AND TAKE APPROPRIATE MEASURES TO DECOMMISSION AS SPECIFIED OR NOTED ON THE DRAWINGS.
- ALL PROPOSED WORK MAY BE ADJUSTED IN THE FIELD BY THE OWNER'S PROJECT REPRESENTATIVE TO MEET EXISTING CONDITIONS.

STOCKPILE MANAGEMENT

- EXCAVATED MATERIAL GENERATED DURING THE EXECUTION OF THIS WORK SHALL BE TEMPORARILY STOCKPILED.
- THE CONTRACTOR SHALL MAINTAIN THE STOCKPILES AND THE AREAS AROUND THEM SO THEY ARE GRADED TO DRAIN. THE CONTRACTOR SHALL ALSO TAKE ALL NECESSARY PRECAUTIONS TO MINIMIZE EROSION FROM THE STOCKPILES INCLUDING, BUT NOT LIMITED TO, THE INSTALLATION OF HAY BALES OR SILT FENCES.
- EXCESS MATERIAL, INCLUDING DEMOLITION DEBRIS, THAT IS VISIBLY OR OLFACTORY CONTAMINATED SHALL BE REMOVED AND DISPOSED OF OFF SITE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS.
- MATERIAL THAT IS VISIBLY OR OLFACTORY CONTAMINATED SHALL BE TEMPORARILY PLACED ON 10 MIL PLASTIC TARPS AND THE STOCKPILED MATERIAL COVERED WITH 10 MIL PLASTIC TARPS TO PROTECT IT FROM THE ELEMENTS.

EROSION CONTROL AND RESOURCE AREA PROTECTION NOTES

- PROVIDE ALL EROSION CONTROL MEASURES SHOWN, SPECIFIED, REQUIRED BY PERMIT, AND/OR REQUIRED BY THE ENGINEER PRIOR TO ANY CONSTRUCTION OR IMMEDIATELY UPON REQUEST. MAINTAIN SUCH CONTROL MEASURES UNTIL FINAL SURFACE TREATMENTS ARE IN PLACE AND/OR UNTIL PERMANENT VEGETATION IS ESTABLISHED. INSPECT AFTER EACH RAINSTORM AND DURING MAJOR STORM EVENTS TO CONFIRM THAT ALL SEDIMENTATION AND EROSION CONTROL MEASURES REQUIRED ARE IN PLACE AND EFFECTIVE.
- DO NOT DISTURB VEGETATION AND TOPSOIL BEYOND THE PROPOSED LIMITS. THE OWNER SHALL PROVIDE A STAGING AREA FOR THE CONTRACTOR'S USE AS SHOWN ON THE DRAWINGS.
- INSTALL SILT SACKS OR OTHER APPROVED SEDIMENTATION BARRIERS IN/AT ALL CATCH BASINS IN THE PROJECT AREA.
- COMPACT, STABILIZE, AND LOAM AND SEED SIDE SLOPES, SHOULDER AREAS AND DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND AS REQUIRED BY PERMITS. GRADE SIDE SLOPES, SHOULDER AREAS AND DISTURBED VEGETATED AREAS TO A MAXIMUM SLOPE OF 3 HORIZONTAL TO 1 VERTICAL (3H:1V), WHERE POSSIBLE. PROVIDE BIODEGRADABLE EROSION CONTROL BLANKETS TO PREVENT EROSION WHERE SLOPES ARE STEEPER THAN 3H:1V.
- SETTLE OR FILTER ALL SILT-LADEN WATER FROM DEWATERING ACTIVITIES IN A SEDIMENTATION OR FILTER BAG TO REMOVE SEDIMENTS PRIOR TO RELEASE USING A SEDIMENTATION OR FILTER BAG LOCATED DOWN-GRADIENT OF THE DEWATERED AREA.
- REMOVE AND PROPERLY DISPOSE OF SILT TRAPPED AT BARRIERS IN UPLAND AREAS OUTSIDE BUFFER ZONES. REMOVE MATERIALS DEPOSITED IN ANY TEMPORARY SETTLING BASINS AT THE COMPLETION OF THE PROJECT. RESTORE ALL DISTURBED AREAS TO THEIR PRECONSTRUCTION CONDITION.
- SWEEP, COLLECT, REMOVE AND DISPOSE OF ANY SEDIMENT TRACKED ONTO PUBLIC RIGHT-OF-WAYS AT THE END OF EACH DAY.
- LOAM AND SEED ALL DISTURBED VEGETATED AREAS TO ESTABLISH COVER AND STABILIZATION AS SOON AS POSSIBLE FOLLOWING DISTURBANCE.
- MAINTAIN AN ADDITIONAL SUPPLY OF EROSION CONTROL MEASURES ON-SITE FOR EMERGENCY REPAIRS.
- STORE FUEL, OIL, PAINT, OR OTHER HAZARDOUS MATERIALS IN A SECONDARY CONTAINER AND REMOVE TO A SECURE LOCKED AND COVERED AREA DURING NON-WORK HOURS.
- PROVIDE A SUPPLY OF ABSORBENT SPILL RESPONSE MATERIALS SUCH AS BOOMS, BLANKETS, AND OIL ABSORBENT MATERIALS AT THE CONSTRUCTION SITE AT ALL TIMES TO CLEAN UP POTENTIAL SPILLS OF HAZARDOUS MATERIALS. IMMEDIATELY REPORT SPILLS OF HAZARDOUS MATERIALS TO THE STATE ENVIRONMENTAL AGENCY AND THE MUNICIPALITY WHERE THE WORK IS OCCURRING.

SURFACE RESTORATION NOTES

- ALL PAVEMENT DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- PROVIDE SITE GRADING AT ACCESSIBLE SIDEWALK RAMPS, SIDEWALKS, AND BUILDING ENTRANCES THAT IS CONSISTENT WITH THE RELEVANT ACCESS REQUIREMENTS OF THE ARCHITECTURAL BARRIERS ACT (ABA), THE AMERICANS WITH DISABILITIES ACT (ADA), AND MA ARCHITECTURAL ACCESS BOARD REQUIREMENTS (AAB). SMALL CHANGES IN GRADE OVER RELATIVELY SHORT DISTANCES (E.G. AT PARKING SPACES, ACCESSIBLE ROUTES, AND RAMPS) MIGHT NOT BE CLEARLY DEPICTED WITHIN THE CONTOUR INTERVAL SHOWN. COMPLY WITH THE CRITERIA IN THESE STANDARDS. SELECT MAXIMUM SLOPE CRITERIA ARE REPRODUCED BELOW:
 - ACCESSIBLE PARKING STALL AND PASSENGER LOADING ZONE (ANY DIRECTION) SLOPE < 2.0%
 - LONGITUDINAL SLOPE ALONG ACCESSIBLE ROUTES < 5.0%
 - CROSS SLOPE ALONG ACCESSIBLE ROUTES < 2.0%
- PROTECT PROJECT FEATURES (E.G., WALLS, FENCES, MAIL BOXES, SIGNS, SIDEWALKS, CURBING, STAIRS, WALKWAYS, TREES, ETC.) FROM DAMAGE DURING CONSTRUCTION, INCLUDING PROVIDING TEMPORARY SUPPORTS, WHEN APPROPRIATE.
- IF REMOVAL OF PROJECT FEATURES IS REQUIRED IN ORDER TO PERFORM THE PROPOSED WORK, REMOVE THOSE SITE FEATURES ONLY UPON APPROVAL OF ENGINEER. REPLACE ALL REMOVED PROJECT FEATURES; NEW ITEMS SHALL BE EQUAL OR BETTER IN QUALITY AND CONDITION TO THE ITEMS REMOVED.
- EXISTING SURVEY MONUMENTS DISTURBED BY THE CONTRACTOR SHALL BE REPLACED BY A LAND SURVEYOR LICENSED IN THE STATE IN WHICH THE WORK IS PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
- COORDINATE THE ADJUSTMENT OF EXISTING UTILITY STRUCTURES WITH EACH RESPONSIBLE UTILITY OWNER PRIOR TO RECONSTRUCTION AND/OR PAVING OPERATIONS. RAISE ALL STRUCTURES TO FINISHED GRADES PRIOR TO THE END OF THE CONSTRUCTION SEASON AND PRIOR TO FINISHED PAVING.
- REPAIR DISTURBED PAVED SURFACES AT THE END OF EACH WORK WEEK, UNLESS OTHERWISE APPROVED/REQUIRED BY THE OWNER.
- PLACE TEMPORARY HOT MIX ASPHALT AT DISTURBED PORTLAND CEMENT CONCRETE SIDEWALKS AND DRIVEWAYS AT THE END OF EACH WORK WEEK, UNLESS OTHERWISE APPROVED/REQUIRED BY THE OWNER.
- TRANSFER ALL TEMPORARY BENCHMARKS, AS NECESSARY.
- ACCOMMODATE PEDESTRIAN TRAFFIC WHERE A SIDEWALK IS TO BE CLOSED FOR SAFETY. "SIDEWALK CLOSED HERE" SIGNS SHALL BE USED AT THE NEAREST SAFE INTERSECTION. SEE TRAFFIC CONTROL DETAILS FOR SIGN INFORMATION.
- RESTORE ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND THE PAYLINE LIMITS TO ORIGINAL CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
- REGRADE ALL UNPAVED AREAS DISTURBED BY THE WORK AS REQUIRED. REPAIR/REPLACE PAVED SURFACES DISTURBED BY THE WORK IN-KIND, UNLESS OTHERWISE NOTED. RESTORE SURFACES TO EXISTING OR PROPOSED CONDITIONS AS INDICATED ON THE DRAWINGS.
- PROVIDE A SMOOTH, FLUSH TRANSITION BETWEEN ALL NEW AND EXISTING PAVEMENTS AND WALKING SURFACES.

PRE-CONSTRUCTION CONDITION SURVEYS

- THE CONTRACTOR SHALL COMPLETE A PRE-CONSTRUCTION CONDITION SURVEY OF ALL STRUCTURES/UTILITIES TO REMAIN WITHIN 200 FEET OF THE PROPOSED WORK PRIOR TO CONSTRUCTION. THE PRE-CONSTRUCTION CONDITION SURVEYS SHALL BE COMPLETED UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MASSACHUSETTS.
- A PRE-CONSTRUCTION CONDITION SURVEY REPORT SHALL BE PREPARED FOR EACH STRUCTURE/UTILITY AND SHALL DOCUMENT THE EXISTING CONDITION OF THE STRUCTURE/UTILITY VIA A NARRATED COLOR VIDEO THAT IS SUPPLEMENTED WITH STILL COLOR PHOTOGRAPHS AS REQUIRED. EACH PRE-CONSTRUCTION CONDITION SURVEY REPORT SHALL BE STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MASSACHUSETTS.
- EACH PRE-CONSTRUCTION CONDITION SURVEY REPORT SHALL INCLUDE A STRUCTURE/UTILITY LOCATION MAP AND SHALL DESCRIBE IN DETAIL THE EXISTING CONDITIONS OBSERVED, INCLUDING BUT NOT LIMITED TO LOCATION AND EXTENT OF CRACKS, SPALLS, THE OPERATION OF WINDOWS AND DOORS, SETTLEMENT, CORROSION, DETERIORATION, AND OTHER DEFICIENCIES AS APPROPRIATE.



Walnut Street Retaining Wall Repairs

City of North Adams

North Adams, Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO: N0363-059		
DATE: JULY 2026		
FILE: N0363-059 General.dwg		
DRAWN BY: JKM, MLM		
DESIGNED/CHECKED BY: DSH, OJC		
APPROVED BY: CSF		

GENERAL NOTES - 1

SCALE:	NO SCALE
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Plotted On: Jun 29, 2026 - 3:29pm By: Wmottelene
File: R:\BUD\12\W0363-059\Walnut Street Retaining Wall Repairs\Drawings - Figures\AutoCAD\Sheet\W0363-059 General.dwg

WATER SYSTEM IMPROVEMENTS NOTES

1. PROPOSED WATER MAINS SHALL BE PROVIDED IN ACCORDANCE WITH THE OWNER'S STANDARDS, AS SPECIFIED, AND AS SHOWN ON THE DRAWINGS. WHERE THERE IS A CONFLICT BETWEEN THE OWNER'S STANDARDS AND THE DRAWINGS AND SPECIFICATIONS, THE OWNER'S STANDARDS SHALL GOVERN.
2. HORIZONTAL AND VERTICAL LOCATION OF WATER MAINS MAY BE MODIFIED TO FIT EXISTING FIELD CONDITIONS, UPON APPROVAL OF THE ENGINEER.
3. MINIMUM DEPTH OF COVER OVER PROPOSED WATER MAIN SHALL BE 5 FEET, UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER.
4. ALL BELOW GRADE VALVES AND FITTINGS SHALL HAVE MECHANICAL JOINT (MJ) ENDS. RESTRAIN ALL VALVE AND FITTING JOINTS WITH RETAINER GLANDS.
5. WHERE A COUPLING IS CALLED FOR ON THE DRAWINGS TO CONNECT A PROPOSED WATER MAIN TO AN EXISTING WATER MAIN PROVIDE A SOLID SLEEVE, IF POSSIBLE. RESTRAIN SOLID SLEEVE TO PIPES WITH RETAINER GLANDS. IF OUTSIDE DIAMETER OF EXISTING WATER MAIN DOES NOT ALLOW INSTALLATION OF SOLID SLEEVE, PROVIDE RESTRAINING TYPE TRANSITION COUPLING.
6. SLEEVES, NIPPLES, AND ACCESSORIES NECESSARY FOR CONNECTION BETWEEN EXISTING AND PROPOSED PIPES MAY NOT BE SHOWN ON THE DRAWINGS. PROVIDE ITEMS NECESSARY FOR CONNECTING TO EXISTING MAINS AND MAKE CONNECTIONS AS INDICATED IN THE CONTRACT DOCUMENTS.
7. RESTRAIN ALL PIPE JOINTS.
8. MAINTAIN A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN THE PROPOSED WATER MAIN AND ANY EXISTING OR PROPOSED SANITARY SEWER OR STORM DRAIN. WHEN CONDITIONS PREVENT THIS, A LESSER DISTANCE WILL BE ALLOWED IF: A.) THE WATER MAIN IS IN A SEPARATE TRENCH OR B.) THE PROPOSED WATER MAIN IS LOCATED IN THE SAME TRENCH TO ONE SIDE ON A BENCH OF UNDISTURBED EARTH WITH AT LEAST 12 INCHES, AND PREFERABLY 18 INCHES, HORIZONTAL SEPARATION BETWEEN THE EDGES OF THE SEWER/DRAIN PIPE AND THE WATER MAIN. IN EITHER CASE, THE BOTTOM OF THE WATER MAIN SHALL BE 18 INCHES ABOVE THE CROWN OF THE SEWER/DRAIN PIPE.
9. WATER MAINS CROSSING SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. IT IS PREFERRED THAT THE WATER MAIN CROSS ABOVE THE SEWER. AT CROSSINGS, ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE.
10. WHERE THE PROPOSED WATER MAIN IS TO BE INSTALLED BELOW A DRAIN PIPE, MAINTAIN A MINIMUM OF 18 INCHES BETWEEN THE BOTTOM OF THE STORM DRAIN AND THE CROWN OF THE WATER MAIN. WHERE A DRAIN PIPE IS LOCATED ABOVE A WATER MAIN, CONSIDERATION SHOULD BE HELD FOR INSULATING THE WATER MAIN AS APPROPRIATE TO COMBAT FREEZING.
11. OPERATION OF EXISTING VALVES SHALL BE BY THE WATER DISTRIBUTION SYSTEM OWNER, UNLESS OTHERWISE AUTHORIZED. COORDINATE OPERATION OF VALVES WITH THE WATER DISTRIBUTION SYSTEM OWNER.
12. THE WATER DISTRIBUTION SYSTEM OWNER DOES NOT GUARANTEE A TIGHT SHUTDOWN OF ITS EXISTING VALVES. THE CONTRACTOR IS RESPONSIBLE FOR CONTROL OF LEAKAGE AND DISPOSAL OF WATER UP TO 100 GALLONS PER MINUTE.
13. COORDINATE THE ACTIVATION AND DEACTIVATION OF WATER MAINS WITH THE WATER DISTRIBUTION SYSTEM OWNER.
14. WHERE WATER MAINS ARE BEING REPLACED, RECONNECT ALL EXISTING WATER SERVICES TO THE PROPOSED WATER MAINS, UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING UNINTERRUPTED WATER SERVICE TO ALL CUSTOMERS IN THE PROJECT AREA DURING CONSTRUCTION, UNLESS OTHERWISE NOTED OR APPROVED BY THE OWNER.
15. FOR EACH PROPOSED WATER SERVICE, PROVIDE NEW CORPORATION AT THE MAIN, NEW WATER SERVICE PIPING, AND NEW CURB STOP AND BOX. PROPOSED WATER SERVICES SHALL BE INSTALLED FROM THE PROPOSED WATER MAIN TO THE PROPERTY LINE FOR EACH PROPERTY IDENTIFIED AS REQUIRING A WATER SERVICE ON THE DRAWINGS. CONNECT PROPOSED WATER SERVICE TO EXISTING WATER SERVICE PIPING AT PROPERTY LINE. PROVIDE ALL COMPONENTS NECESSARY TO CONNECT PROPOSED WATER SERVICE TO EXISTING WATER SERVICE. EXISTING SERVICE PIPING TO BE ABANDONED SHALL BE CAPPED/CRIMPED ONCE SERVICE HAS BEEN TRANSFERRED TO THE NEW WATER MAIN.
16. THE SIZE OF THE PROPOSED WATER SERVICE TO A PROPERTY FROM THE PROPOSED WATER MAIN SHALL MATCH THE SIZE OF THE EXISTING WATER SERVICE FROM THE BUILDING ON THAT PROPERTY, UNLESS NOTED OTHERWISE.
17. WHERE A PROPOSED UTILITY CROSSES BELOW AN EXISTING ASBESTOS CEMENT (AC) WATER MAIN, REPLACE THE AC WATER MAIN ABOVE THE CROSSING AND 10 FEET ON EACH SIDE OF THE CROSSING WITH NEW DI PIPE. HANDLE, REMOVE, TRANSPORT AND DISPOSE OF AC PIPE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

SEWER / DRAINAGE SYSTEM IMPROVEMENTS NOTES

1. LOCATIONS OF PROPOSED SANITARY SEWER MAINS, SANITARY SEWER SERVICES, STORM DRAINS, AND STRUCTURES ARE APPROXIMATE AND MAY BE ADJUSTED DURING CONSTRUCTION AFTER INVESTIGATIVE WORK. FINAL SANITARY SEWER MAIN/STORM DRAIN LOCATIONS, AND ASSOCIATED STRUCTURES, WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
2. ADJUSTMENTS TO THE PROPOSED SANITARY SEWER/STORM DRAIN LAYOUTS AND ELEVATIONS SHALL NOT BE CONSIDERED CAUSE FOR ADDITIONAL PAYMENTS. THE CONTRACTOR SHALL NOT MAKE PROPOSED SANITARY SEWER/ STORM DRAIN LAYOUT AND ELEVATION ADJUSTMENTS WITHOUT APPROVAL FROM THE ENGINEER.
3. MANHOLES SHALL BE 60-INCH DIAMETER, UNLESS NOTED OTHERWISE.
4. PROPOSED SANITARY SEWER SERVICE LATERALS SHALL BE 6-INCH DIAMETER PVC, UNLESS NOTED OTHERWISE, AND INSTALLED FROM THE PROPOSED SANITARY SEWER MAIN TO THE PROPERTY LINE FOR EACH PROPERTY IDENTIFIED AS REQUIRING A SANITARY SEWER SERVICE ON THE DRAWINGS.
5. MINIMUM PITCH FOR BUILDING SERVICE PIPES SHALL BE ¼ INCH PER FOOT, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
6. WHERE SANITARY SEWER SERVICE IS PROPOSED FOR A PROPERTY THAT DOES NOT CURRENTLY HAVE SANITARY SEWER SERVICE, CAP SANITARY SEWER SERVICE AT PROPERTY LINE, IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
7. DISTANCES AND SLOPES OF PROPOSED SANITARY SEWERS/STORM DRAINS ARE BASED ON DISTANCES FROM CENTERLINE TO CENTERLINE OF STRUCTURES.
8. UNLESS OTHERWISE NOTED, PROPOSED CATCH BASIN LATERALS SHALL BE 12-INCH DIAMETER. WHERE THE MAINLINE STORM DRAIN IS SMALLER THAN 12-INCHES IN DIAMETER, THE CATCH BASIN LATERAL SHALL MATCH THE SIZE OF THE MAINLINE STORM DRAIN. MINIMUM COVER OVER CATCH BASIN LATERALS SHALL BE 4 FEET, UNLESS SHOWN OR APPROVED OTHERWISE.
9. THERE ARE PROPERTIES WITHIN THE PROJECT AREA FOR WHICH THE LOCATION OF THE SANITARY SEWER SERVICE IS UNKNOWN. AT THESE PROPERTIES, THERE IS EITHER NO AVAILABLE INFORMATION ON THE SANITARY SEWER SERVICE OR THERE ARE MULTIPLE SANITARY SEWER SERVICES IN FRONT OF THE PROPERTY. AT THESE LOCATIONS, THE FOLLOWING PROCEDURES SHALL BE FOLLOWED:
 - WHERE THE SANITARY SEWER SERVICE LATERAL(S) FOR A PROPERTY WILL BE CROSSED/EXPOSED DURING THE INSTALLATION OF THE PROPOSED SANITARY SEWER MAIN, LOCATE/INVESTIGATE THE LATERAL(S) DURING CONSTRUCTION OF THE PROPOSED SANITARY SEWER MAIN. THIS WORK SHALL BE INCIDENTAL TO THE PIPELINE EXCAVATION.
 - WHERE THE SANITARY SEWER SERVICE LATERAL(S) TO A PROPERTY WILL NOT BE CROSSED DURING EXCAVATION FOR THE PROPOSED SANITARY SEWER MAIN, CONDUCT A SERVICE INVESTIGATION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS PRIOR TO CONSTRUCTION OF THE PROPOSED SANITARY SEWER MAIN AT THIS LOCATION.
13. MAINTAIN UNINTERRUPTED SANITARY SEWER SERVICE DURING CONSTRUCTION. PROVIDE BYPASS PUMPING OF SEWAGE FLOWS AND/OR TEMPORARY CONNECTIONS, AS NECESSARY.
14. MAINTAIN OPERATION OF DRAINAGE SYSTEM DURING CONSTRUCTION. PROVIDE BYPASS PUMPING OF DRAINAGE FLOWS AND/OR TEMPORARY CONNECTIONS, AS NECESSARY.
15. MAINTAIN A MINIMUM HORIZONTAL DISTANCE OF AT LEAST 10 FEET FROM ANY EXISTING OR PROPOSED WATER MAIN. IF SITE CONDITIONS PREVENT A HORIZONTAL SEPARATION OF 10 FEET, A LESSER DISTANCE WILL BE ALLOWED IF THE SANITARY SEWER/STORM DRAIN IS CONSTRUCTED IN A SEPARATE TRENCH WITH THE TOP OF THE SANITARY SEWER/ STORM DRAIN AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN.
16. WHENEVER A PROPOSED SANITARY SEWER/STORM DRAIN MUST CROSS A WATER MAIN, CONSTRUCT THE SANITARY SEWER/STORM DRAIN SO THE TOP OF THE SANITARY SEWER/STORM DRAIN IS AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN. THE SANITARY SEWER/STORM DRAIN JOINTS SHALL BE EQUIDISTANT AND LOCATED AS FAR AWAY AS POSSIBLE FROM THE WATER MAIN JOINTS. WHEN THE PROPOSED SANITARY SEWER/STORM DRAIN CANNOT MEET THE ABOVE REQUIREMENTS, ENCASE THE PROPOSED SANITARY SEWER/STORM DRAIN IN CONCRETE.



Walnut Street Retaining Wall Repairs

City of North Adams

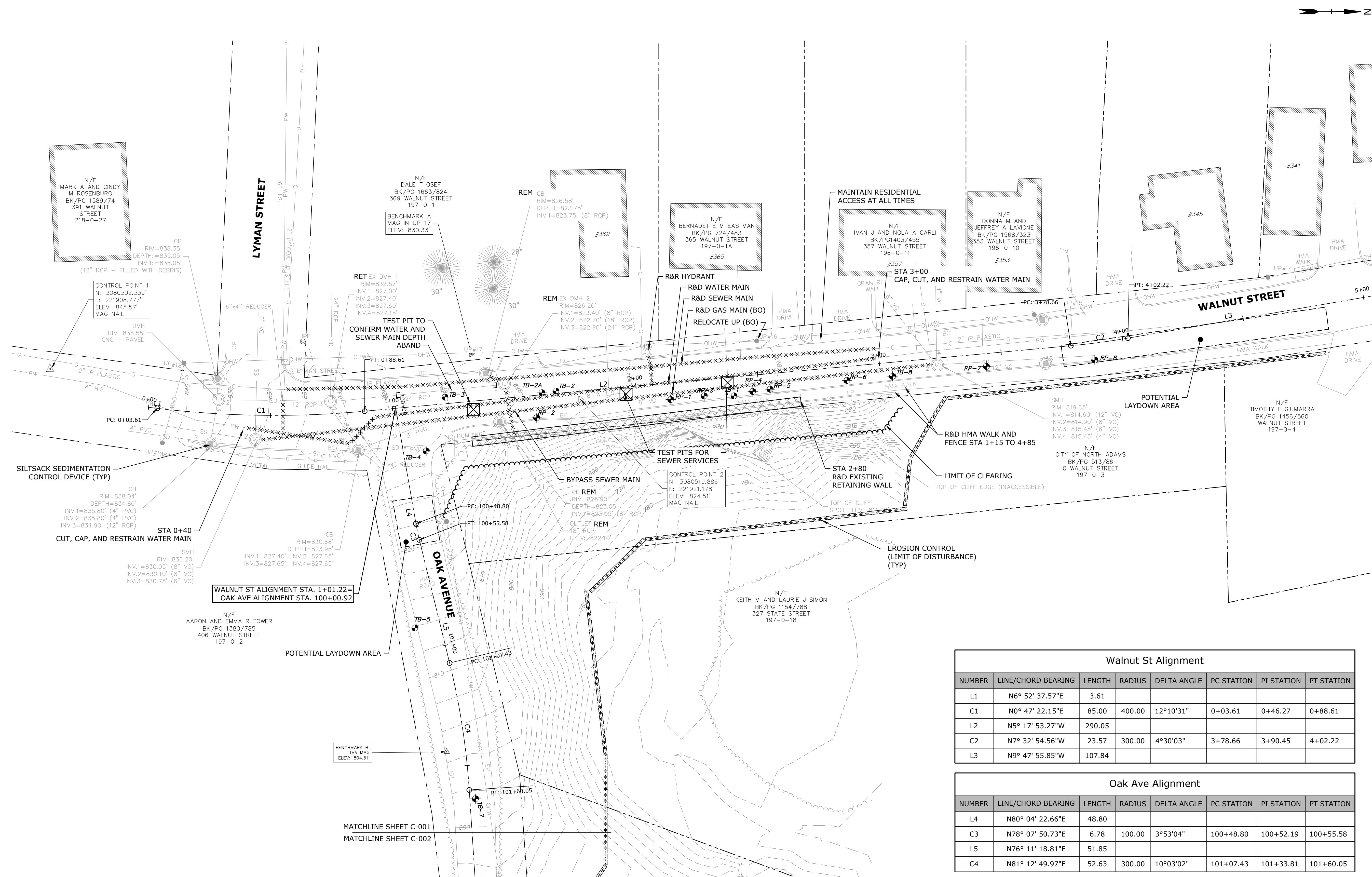
North Adams, Massachusetts

MARK	DATE	DESCRIPTION
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DATE:		JULY 2026
FILE:		N0363-059 General.dwg
DRAWN BY:		JKM, MLM
DESIGNED/CHECKED BY:		DSH, OJC
APPROVED BY:		CSF

GENERAL NOTES - 2

SCALE: NO SCALE

Last Saved: 6/22/2026
Plotted On: Jun 29, 2026 3:30pm By: MMottotlee
Tighe & Bond\J\N\N0363\059 Walnut Street Retaining Wall Repairs\Drawings Figures\AutoCAD\Sheet\N0363-059 Demolition Plan.dwg

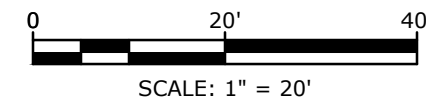


Walnut St Alignment							
NUMBER	LINE/CHORD BEARING	LENGTH	RADIUS	DELTA ANGLE	PC STATION	PI STATION	PT STATION
L1	N6° 52' 37.57"E	3.61					
C1	N0° 47' 22.15"E	85.00	400.00	12°10'31"	0+03.61	0+46.27	0+88.61
L2	N5° 17' 53.27"W	290.05					
C2	N7° 32' 54.56"W	23.57	300.00	4°30'03"	3+78.66	3+90.45	4+02.22
L3	N9° 47' 55.85"W	107.84					

Oak Ave Alignment							
NUMBER	LINE/CHORD BEARING	LENGTH	RADIUS	DELTA ANGLE	PC STATION	PI STATION	PT STATION
L4	N80° 04' 22.66"E	48.80					
C3	N78° 07' 50.73"E	6.78	100.00	3°53'04"	100+48.80	100+52.19	100+55.58
L5	N76° 11' 18.81"E	51.85					
C4	N81° 12' 49.97"E	52.63	300.00	10°03'02"	101+07.43	101+33.81	101+60.05

NOTES

- STA 3+90 IS THE LIMIT OF FIELD SURVEY. FEATURES FROM STA 3+90 TO 5+00 ARE BASED ON 2024 IMAGERY.
- IDENTIFY ROCK ELEVATION WITH TEST PITS.



Walnut Street Retaining Wall Repairs

City of North Adams

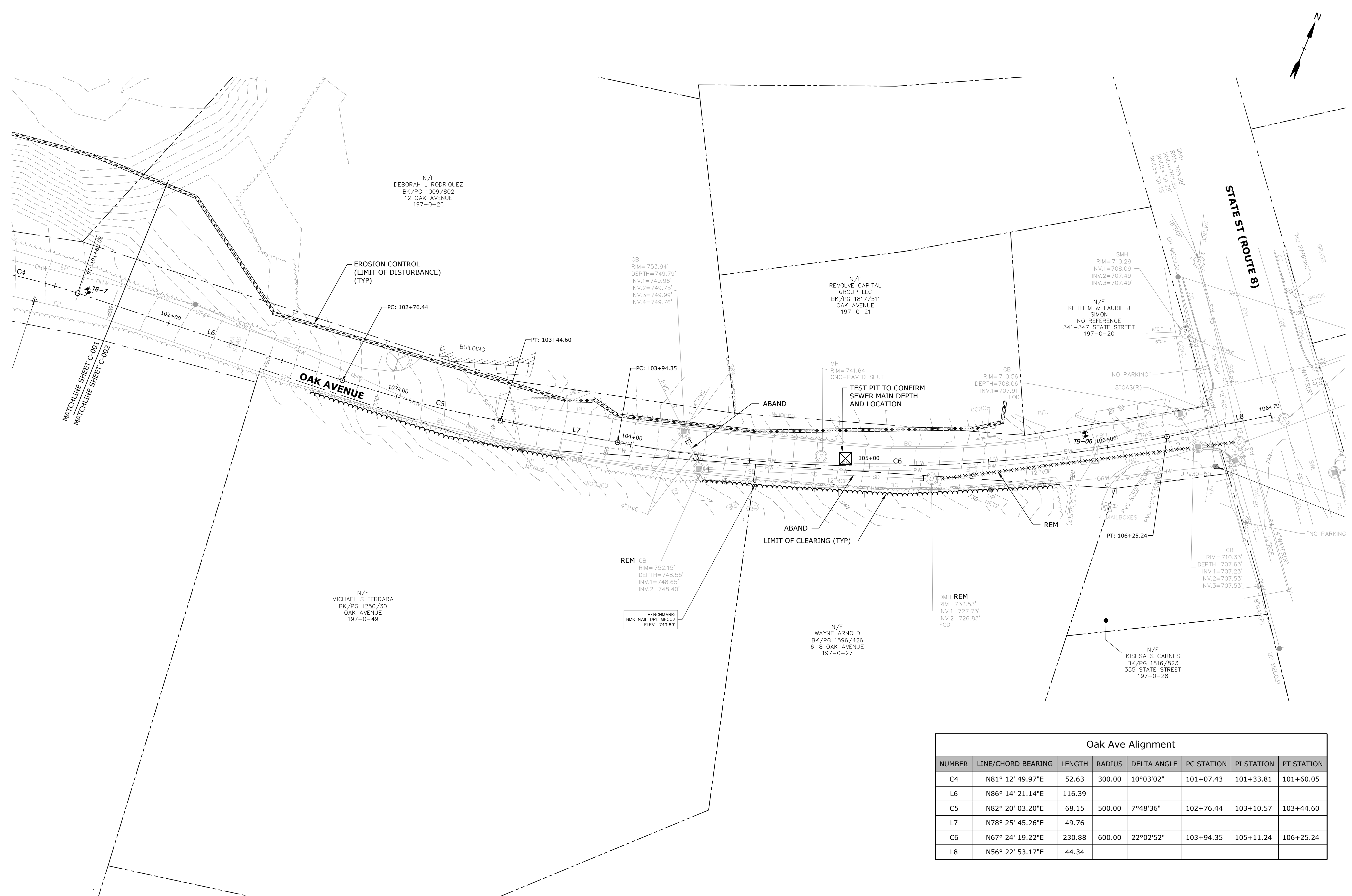
North Adams, Massachusetts

MARK	DATE	DESCRIPTION
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DATE:	JULY 2026	
FILE:	N0363-059 Demolition Plan.dwg	
DRAWN BY:	JKM, MLM	
DESIGNED/CHECKED BY:	DSH, OJC	
APPROVED BY:	CSF	

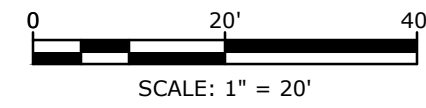
EXISTING CONDITION AND DEMOLITION PLAN

SCALE: 1" = 20'

Last Saved: 6/22/2026
Plotted On: Jun 29, 2026-3:30pm By: JMMottotlee
Tighe & Bond\JMM\N0363\059 Walnut Street Retaining Wall Repairs\Drawings Figures\AutoCAD\Sheet\N0363-059 Demolition Plan.dwg



Oak Ave Alignment							
NUMBER	LINE/CHORD BEARING	LENGTH	RADIUS	DELTA ANGLE	PC STATION	PI STATION	PT STATION
C4	N81° 12' 49.97"E	52.63	300.00	10°03'02"	101+07.43	101+33.81	101+60.05
L6	N86° 14' 21.14"E	116.39					
C5	N82° 20' 03.20"E	68.15	500.00	7°48'36"	102+76.44	103+10.57	103+44.60
L7	N78° 25' 45.26"E	49.76					
C6	N67° 24' 19.22"E	230.88	600.00	22°02'52"	103+94.35	105+11.24	106+25.24
L8	N56° 22' 53.17"E	44.34					



Walnut Street Retaining Wall Repairs

City of North Adams

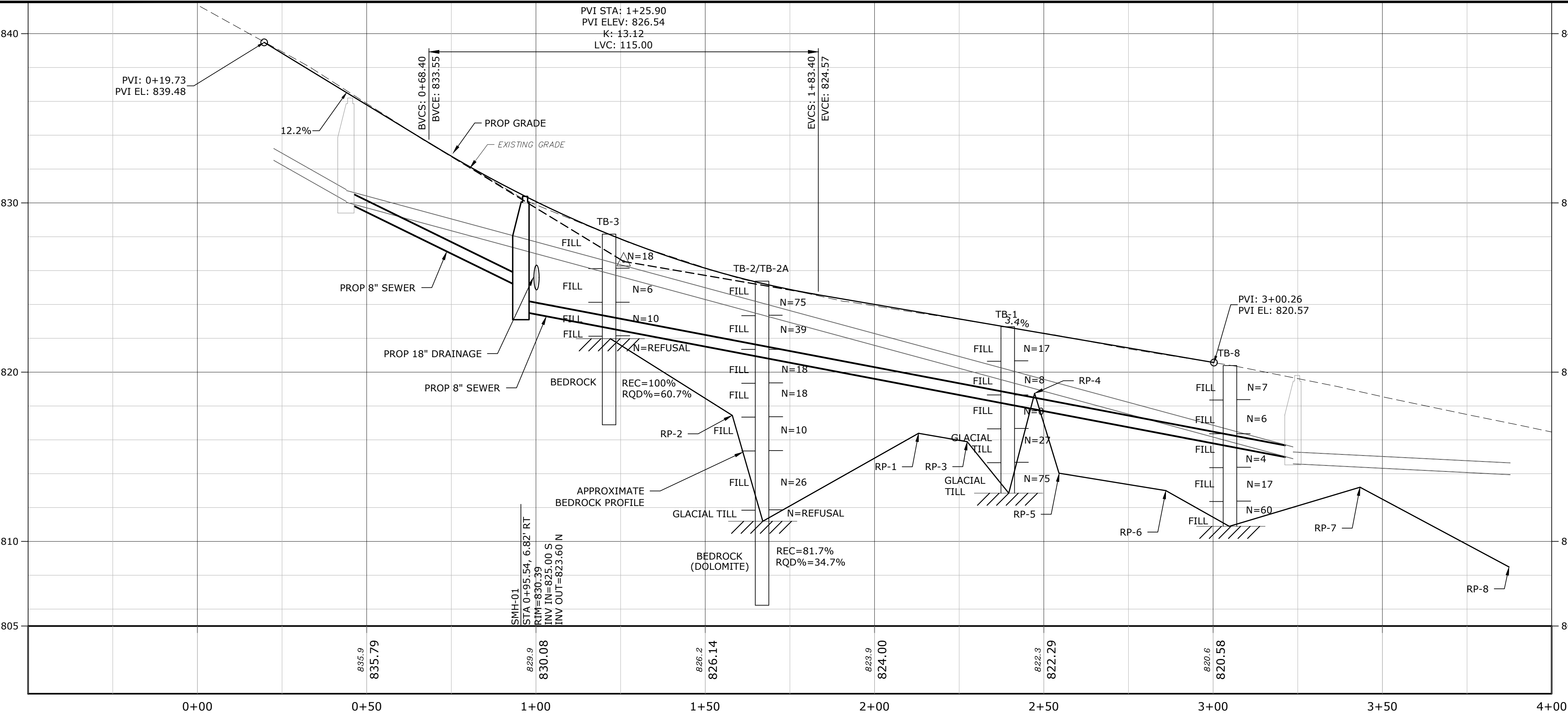
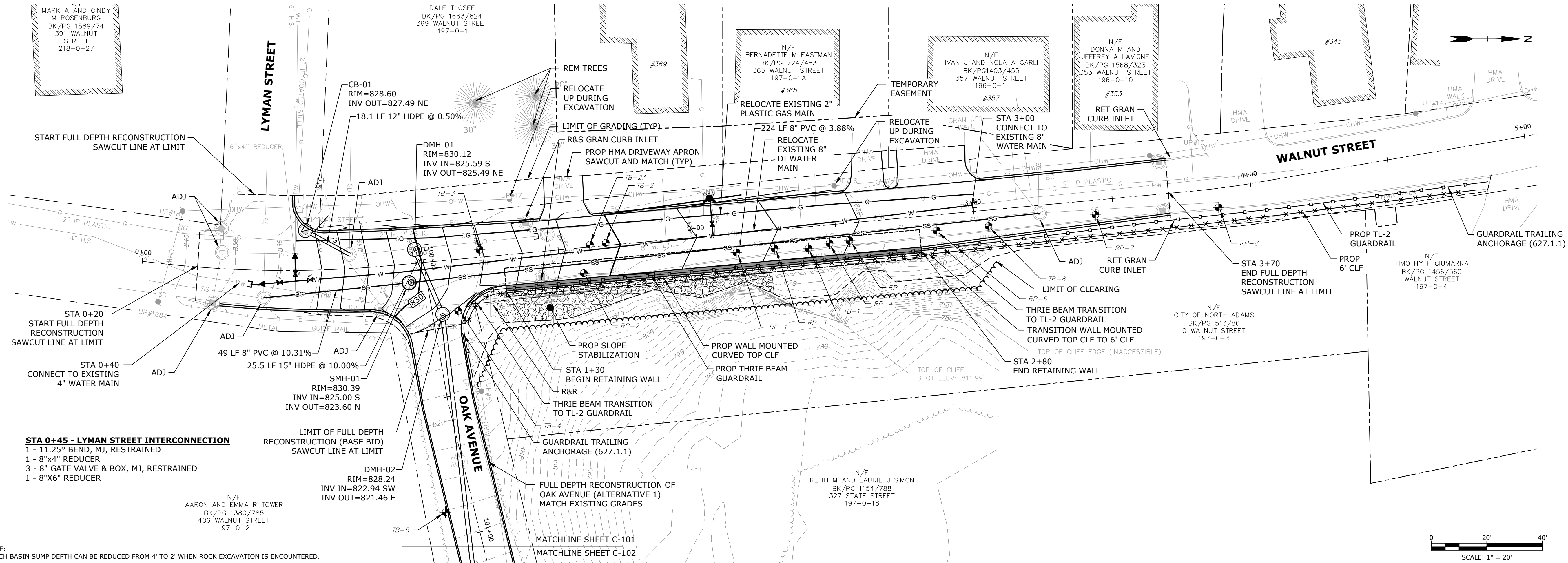
North Adams, Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO:		N0363-059
DATE:		JULY 2026
FILE:		N0363-059 Demolition Plan.dwg
DRAWN BY:		JKM, MLM
DESIGNED/CHECKED BY:		DSH, OJC
APPROVED BY:		CSF

EXISTING CONDITION AND DEMOLITION PLAN

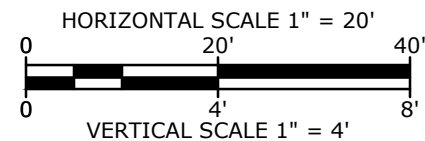
SCALE: 1" = 20'

C-002
SHEET 6 OF 26



NOTES

- TEST BORINGS TB-01 THROUGH TB-05 AND ROCK PROBES RP-01 AND RP-02 WERE DRILLED BY SEABOARD DRILLING LLC. OF CHICOPE, MA, FROM NOVEMBER 28 THROUGH DECEMBER 1, 2022, AND WERE OBSERVED BY REPRESENTATIVE OF TIGHE & BOND.
- TEST BORING TB-06 AND ROCK PROBES RP-03 THROUGH RP-10 WERE DRILLED BY SEABOARD DRILLING LLC. OF CHICOPE, MA, ON MARCH 31, 2026, AND WERE OBSERVED BY REPRESENTATIVE OF TIGHE & BOND.
- BEDROCK ELEVATION BETWEEN BORING LOCATIONS ARE INTERPRETED AND MAY NOT REPRESENT THE ACTUAL BEDROCK ELEVATION. ELEVATIONS TO BE VERIFIED IN THE FIELD.
- SEE BORING LOGS FOR ADDITIONAL SUBSURFACE INFORMATION.
- PROVIDE EXPOSED ROCK ELEVATIONS TO THE ENGINEER.



Walnut Street Retaining Wall Repairs

City of North Adams

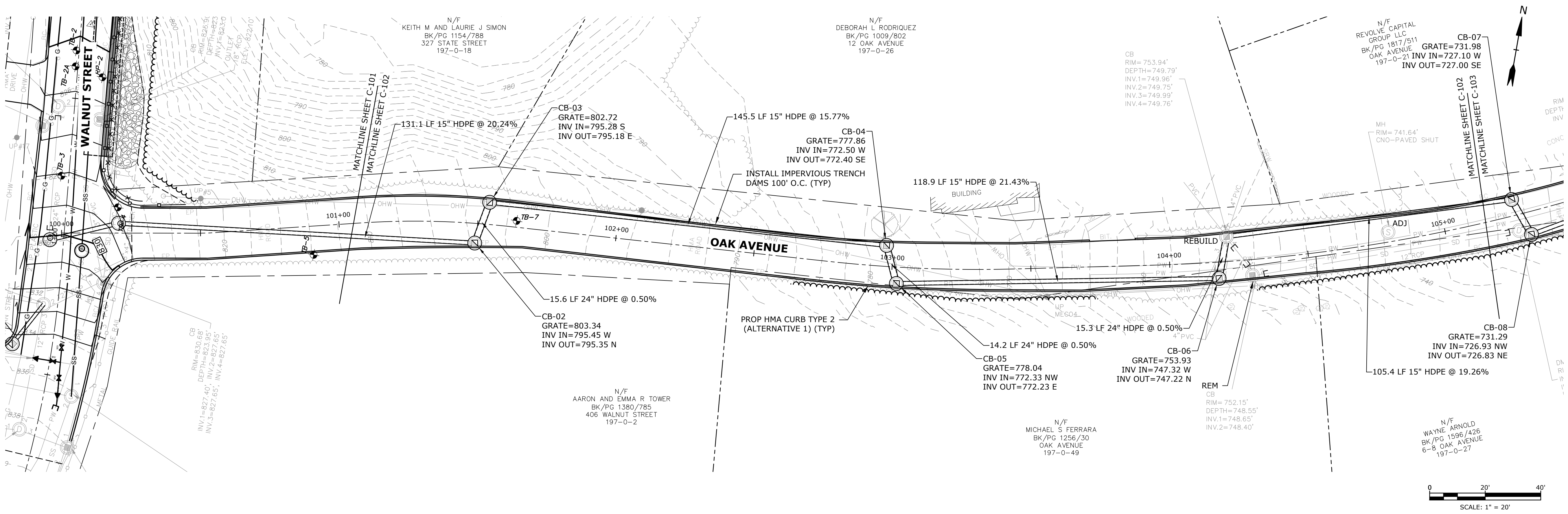
North Adams, Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO:	N0363-059	
DATE:	JULY 2026	
FILE:	N0363-059 Construction Plan.dwg	
DRAWN BY:	JKM, MLM	
DESIGNED/CHECKED BY:	DSH, OJC	
APPROVED BY:	CSF	

CONSTRUCTION PLAN AND PROFILE

SCALE: 1" = 20'

C-101
SHEET 7 OF 26



NOTE:
CATCH BASIN SUMP DEPTH CAN BE REDUCED FROM 4' TO 2' WHEN ROCK EXCAVATION IS ENCOUNTERED.

Tighe & Bond

COMMONWEALTH OF MASSACHUSETTS
CRAIG FRENCH
STRUCTURAL
No. 45032
REGISTERED PROFESSIONAL ENGINEER
07/01/2006

COMMONWEALTH OF MASSACHUSETTS
DANIEL S. HOLMES
CIVIL
No. 56624
REGISTERED PROFESSIONAL ENGINEER
07/01/2006

Walnut Street Retaining Wall Repairs

City of North Adams

North Adams, Massachusetts

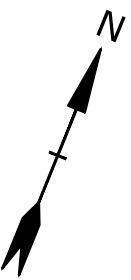
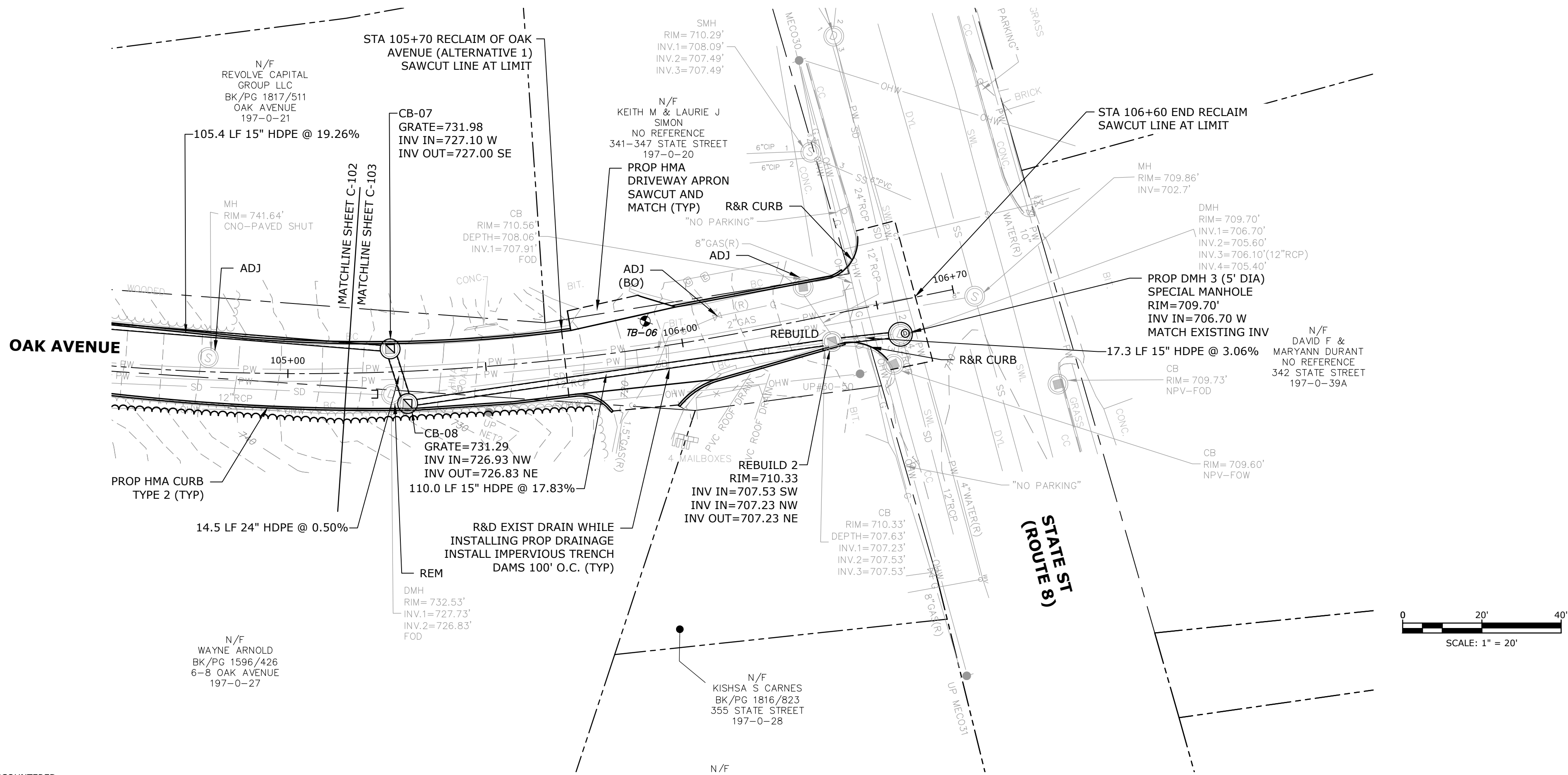
MARK	DATE	DESCRIPTION
PROJECT NO:	N0363-059	
DATE:	JULY 2026	
FILE:	N0363-059 Construction Plan.dwg	
DRAWN BY:	JKM, MLM	
DESIGNED/CHECKED BY:	DSH, OJC	
APPROVED BY:	CSF	

CONSTRUCTION PLAN AND PROFILE

SCALE: 1" = 20'

C-102
SHEET 8 OF 26

Last Saved: 6/24/2026 3:30pm By: MMottotlee
Plotted On: Jun 29, 2026 3:30pm
Tighe & Bond\\J\\N0363-059 Walnut Street Retaining Wall Repairs\\Drawings Figures\\AutoCAD\\Sheet\\N0363-059 Construction Plan.dwg



Tighe & Bond



Walnut Street Retaining Wall Repairs

City of North Adams

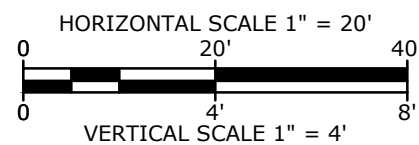
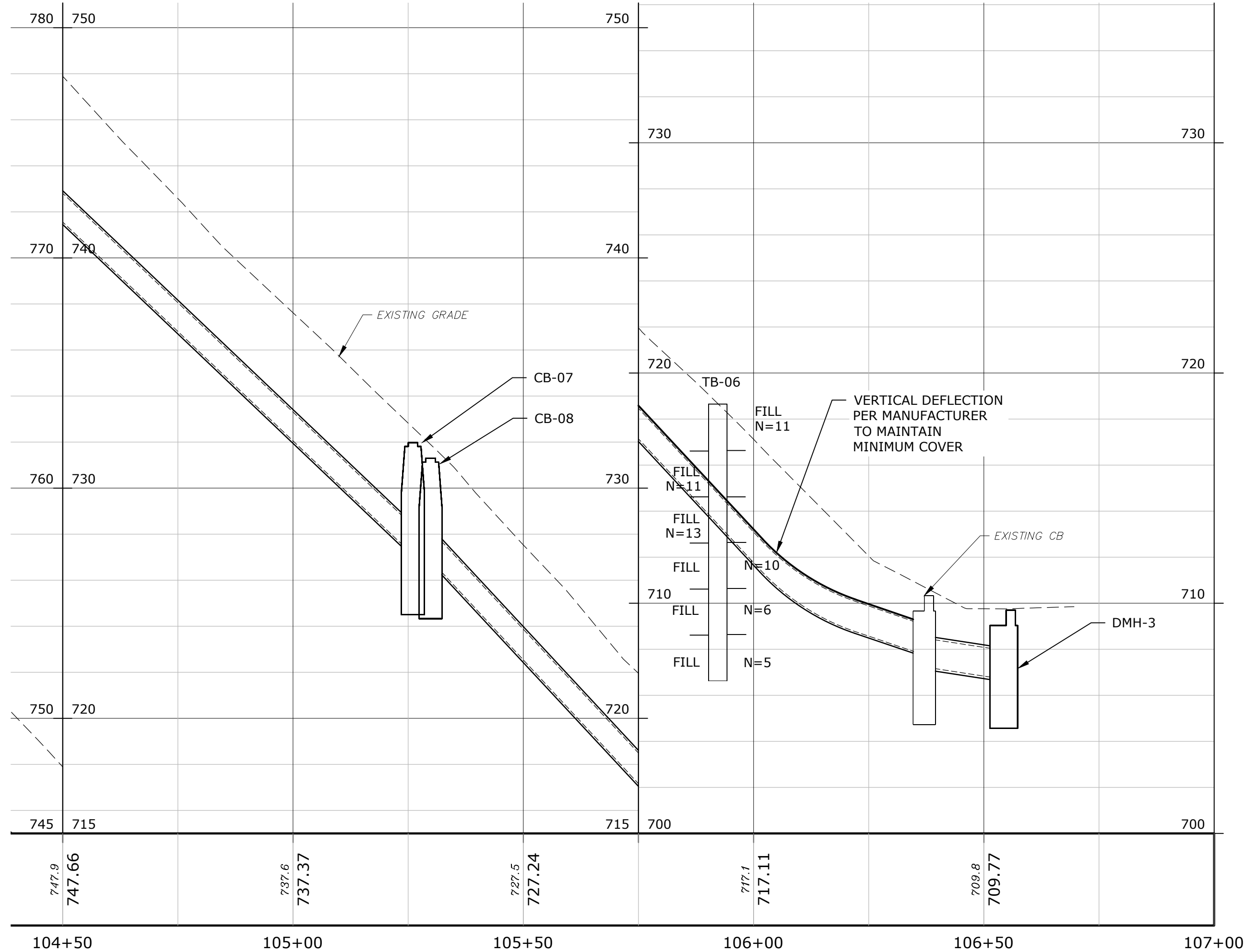
North Adams, Massachusetts

MARK	DATE	DESCRIPTION
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DATE:	JULY 2026	
FILE:	N0363-059 Construction Plan.dwg	
DRAWN BY:	JKM, MLM	
DESIGNED/CHECKED BY:	DSH, OJC	
APPROVED BY:	CSF	

CONSTRUCTION PLAN AND PROFILE

SCALE: 1" = 20'

C-103
SHEET 9 OF 26

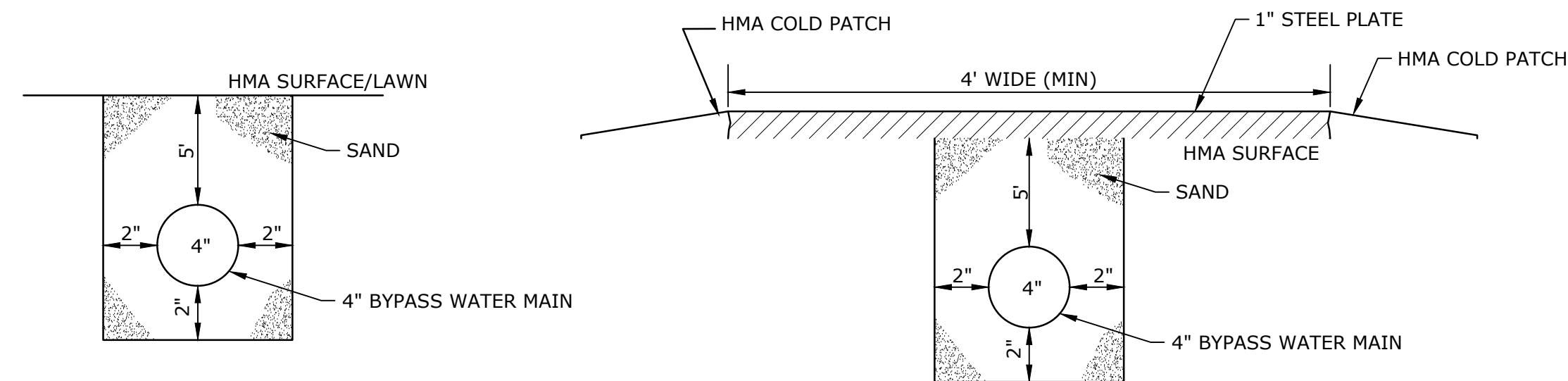


North Adams,
Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO:		N0363-059
DATE:		JULY 2026
FILE:		N0363-059 temp utility plan.dwg
DRAWN BY:		JKM, MLM
DESIGNED/CHECKED BY:		DSH, OJC
APPROVED BY:		CSF

SCALE: 1" = 10'

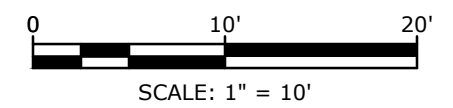
C-201
SHEET 10 OF 26



STREET CROSSING

NO SCALE

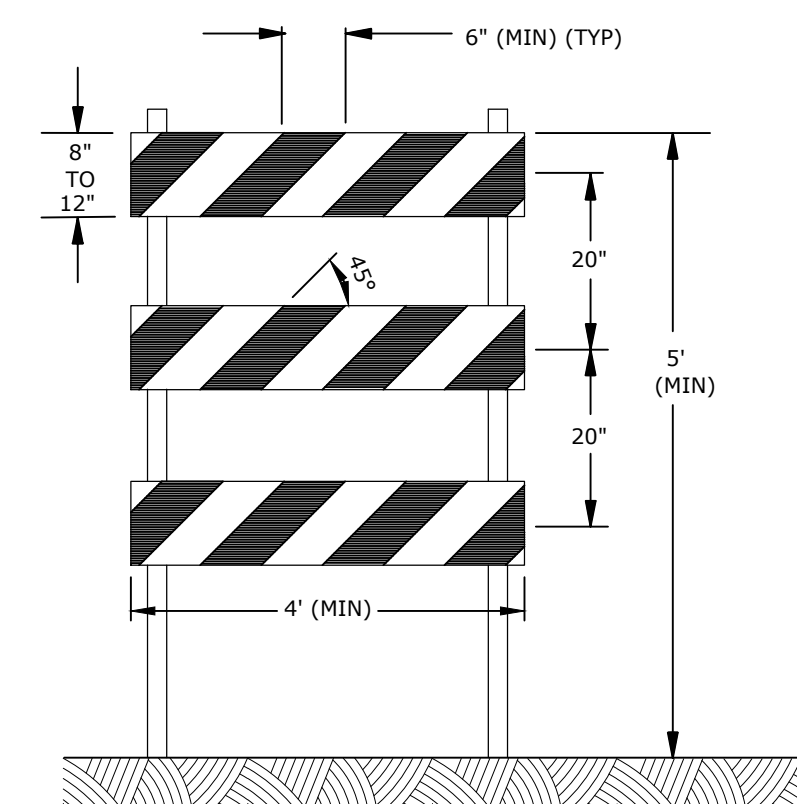
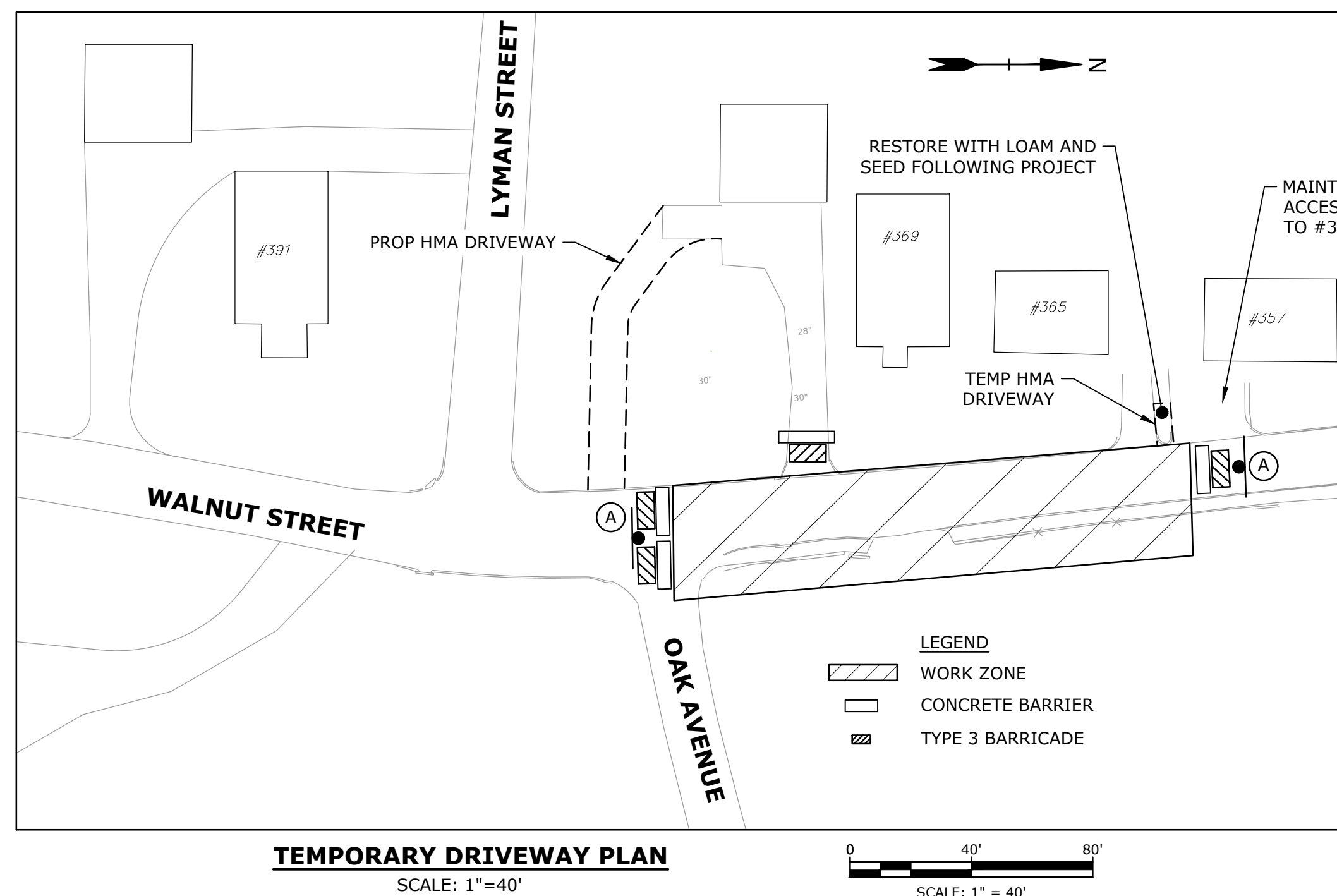
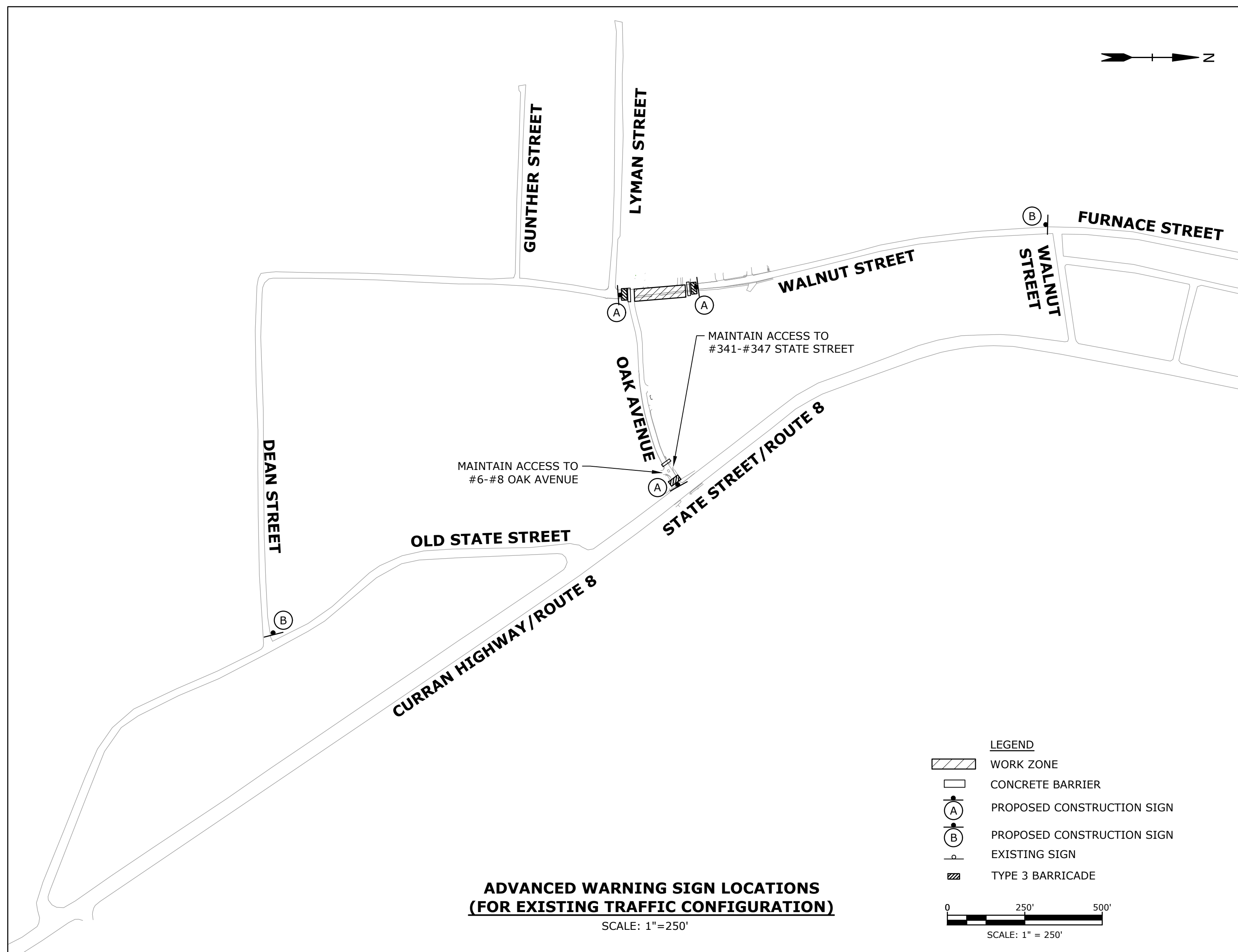
- NOTES:**
1. PIPING TO BE PLASTIC OR STEEL WITH A MINIMUM WORKING PRESSURE OF 200 PSI HAVING PREVIOUSLY BEEN USED ONLY FOR LIKE WORK.
 2. ALL PIPING OR HOSES CROSSING SIDEWALKS SHALL HAVE COLD PATCH RAMPS.
 3. CONTRACTOR SHALL PROVIDE FULL-TIME ON-CALL BYPASS WATCH.
 4. BYPASS WATER MAIN PIPE JOINTS SHALL BE SANDBAGGED AS DIRECTED BY THE ENGINEER.



1. ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS, UNLESS SUPERCEDED BY THESE PLANS.
2. ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.
3. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
4. TEMPORARY CONSTRUCTION SIGNING, BARRICADES, AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
5. SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, CHANNELIZING DEVICES, BARRIERS, AND CRASH ATTENUATORS MUST PASS THE CRITERIA SET FORTH IN NCHRP REPORT 350, "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR "MANUAL FOR ASSESSING SAFETY HARDWARE" (MASH).
6. CONTRACTORS SHALL NOTIFY EACH A BUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT, AND SIMILAR OPERATIONS.
7. THE FIRST FIVE PLASTIC DRUMS OF A TAPER SHALL BE MOUNTED WITH TYPE A LIGHTS.
8. THE ADVISORY SPEED LIMIT, IF REQUIRED, SHALL BE DETERMINED BY THE ENGINEER.
9. MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
10. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.

I.D. NUMBER	SIGN CODE	SIZE OF SIGN (IN)		TEXT *	TEXT DIMENSIONS & COLOR	NUMBER OF SIGNS REQUIRED	AREA IN SQ. FT.
		WIDTH	HEIGHT				
(A)	R11-2	48	30		 MUTCD STANDARD	3	30
(B)	R11-4	60	30			2	25
* FOR ALL TEMPORARY CONSTRUCTION SIGNS, SEE MUTCD 2009 EDITION, 1979 STANDARD HIGHWAY SIGNS AND SECTION M4.30.0					TOTALS	5	55

* FOR ALL TEMPORARY CONSTRUCTION SIGNS, SEE MUTCD 2009 EDITION, 1979 STANDARD HIGHWAY SIGNS AND SECTION M4.30.C TYPE III OF THE MASSDOT STANDARD SPECIFICATION FOR TEXT DIMENSIONS AND COLOR.



NOTES:

CONSTRUCTION BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) AND THE LATEST EDITION OF THE MUTCD.

MARKINGS FOR BARRICADE RAILS SHALL BE ALTERNATE ORANGE AND WHITE STRIPES SLOPING DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS. 6" WIDE STRIPES SHALL BE USED.

THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS. RAILS FOR TYPE I AND TYPE II BARRICADES SHALL BE RETROREFLECTIVE ON BOTH SIDES. WHERE TRAFFIC PASSES ONLY IN ONE DIRECTION OF TRAVEL, ONLY THE SIDE FACING TRAFFIC SHALL BE RETROREFLECTIVE.

THE ENGINEER RESERVES THE RIGHT TO REJECT ANY BARRICADE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.

CORNERS OF BARRICADE RAILS SHALL BE ROUNDED.

TYPE III CONSTRUCTION BARRICADES



Walnut Street Retaining Wall Repairs

City of North
Adams

North Adams,
Massachusetts

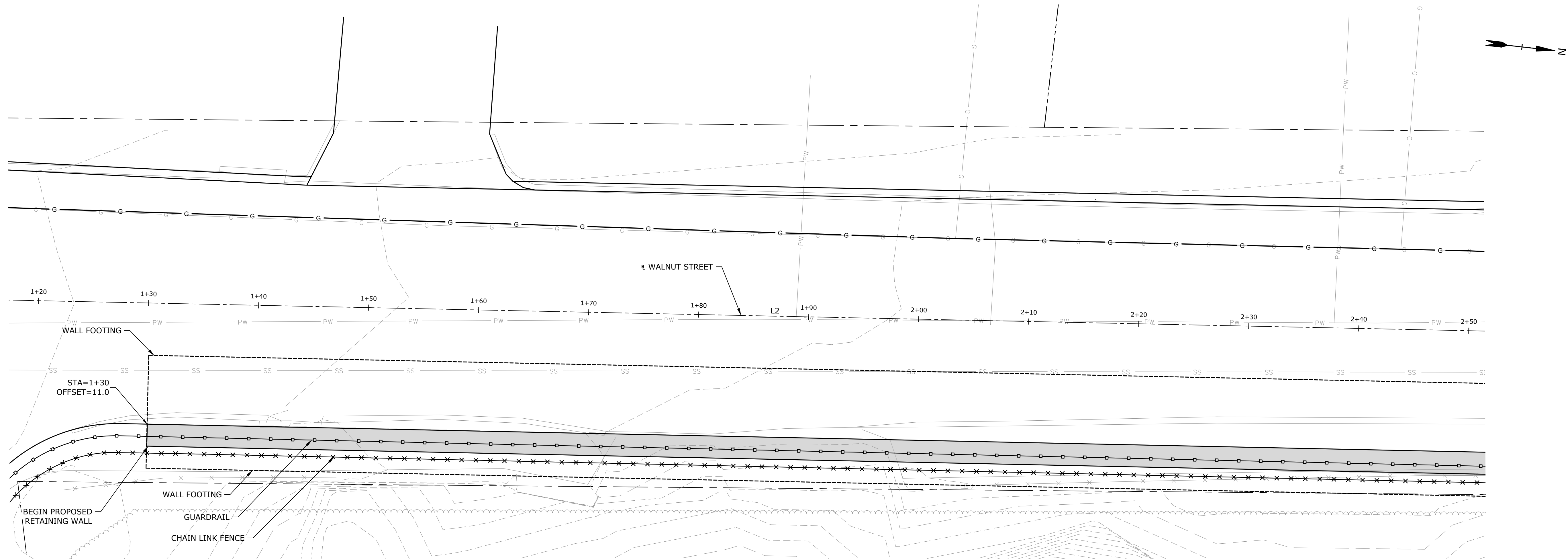
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DATE:		JULY 2026
FILE:		N0363-059 TTCP.dwg
DRAWN BY:		JKM, MLM
DESIGNED/CHECKED BY:		DSH, OJC
APPROVED BY:		CSF

TEMPORARY TRAFFIC CONTROL PLAN

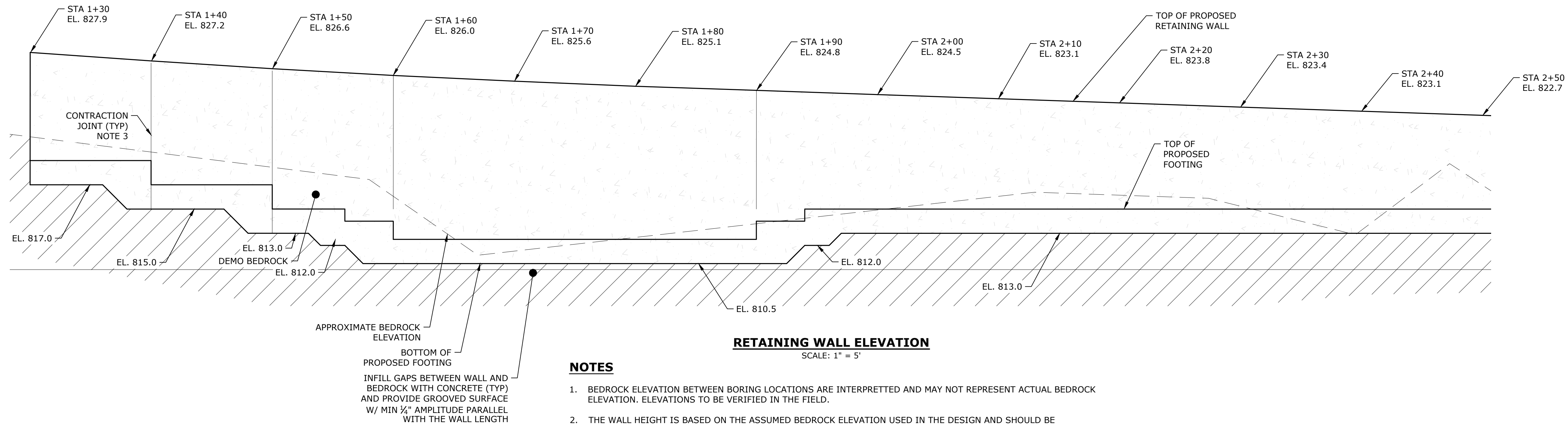
SCALE: AS SHOWN

C-301
SHEET 11 OF 26

Last Saved: 6/29/2026 4:22pm By: MMottotlee
Plotted On: Jun 30, 2026 4:22pm
Tighe & Bond\3\N\N0363\059 Walnut Street Retaining Wall Repairs\Drawings Figures\AutoCAD\Sheet\N0363-059 RW plan and ELV.dwg



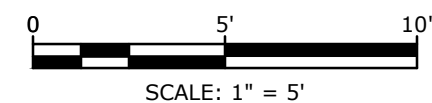
RETAINING WALL PLAN
SCALE: 1" = 5'



RETAINING WALL ELEVATION
SCALE: 1" = 5'

NOTES

- BEDROCK ELEVATION BETWEEN BORING LOCATIONS ARE INTERPRETTED AND MAY NOT REPRESENT ACTUAL BEDROCK ELEVATION. ELEVATIONS TO BE VERIFIED IN THE FIELD.
- THE WALL HEIGHT IS BASED ON THE ASSUMED BEDROCK ELEVATION USED IN THE DESIGN AND SHOULD BE CONSIDERED APPROXIMATE. THE FOOTING ELEVATION SHOULD TYPICALLY REQUIRE NO GREATER THAN 1 FOOT OF ROCK REMOVAL. IF BEDROCK ELEVATIONS ENCOUNTERED IN THE FIELD DIFFER BY MORE THAN 1 FOOT FROM WHAT IS ASSUMED ON THESE PLANS AND AS PART OF THE DESIGN, THE ENGINEER SHOULD BE CONTACTED IMMEDIATELY AND AFFORDED THE OPPORTUNITY TO REEVALUATE THE DESIGN AS NECESSARY.
- CONTRACTION JOINTS SHOWN ON THIS ELEVATION ARE REQUIRED AT THESE LOCATIONS. FOR LOCATIONS OF ADDITIONAL CONTRACTION JOINTS, REFER TO THE SPACING REQUIREMENTS OF THE CONTRACTION JOINT DETAIL.



**Walnut Street
Retaining Wall
Repairs**

City of North
Adams

North Adams,
Massachusetts

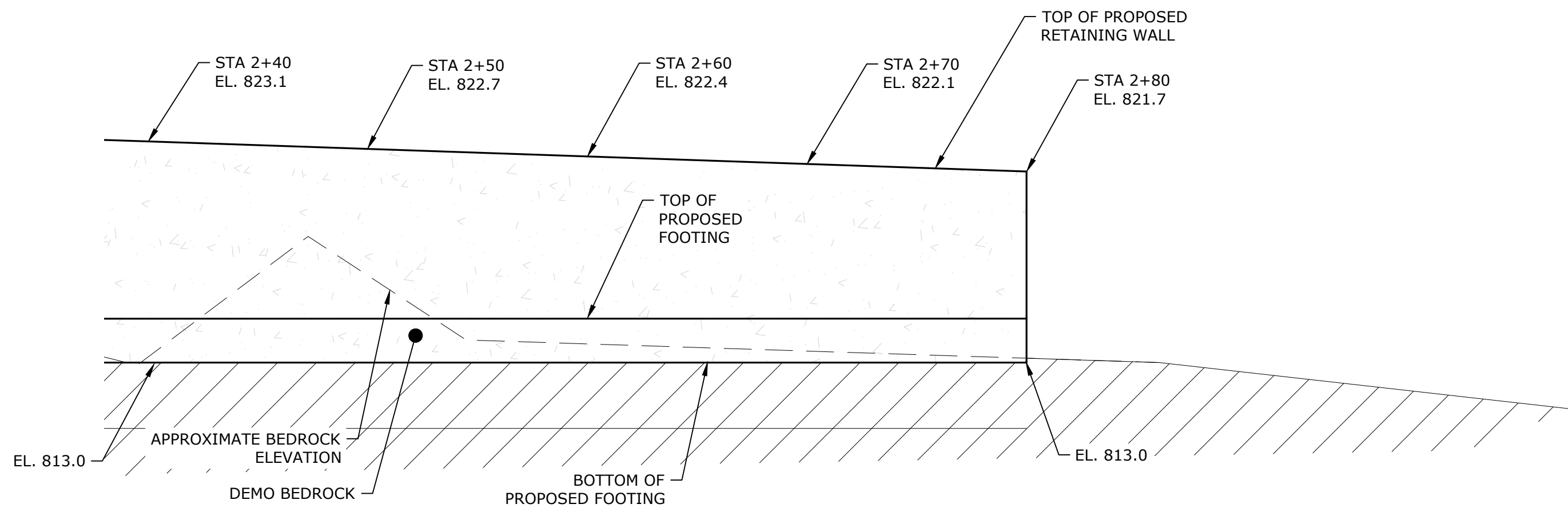
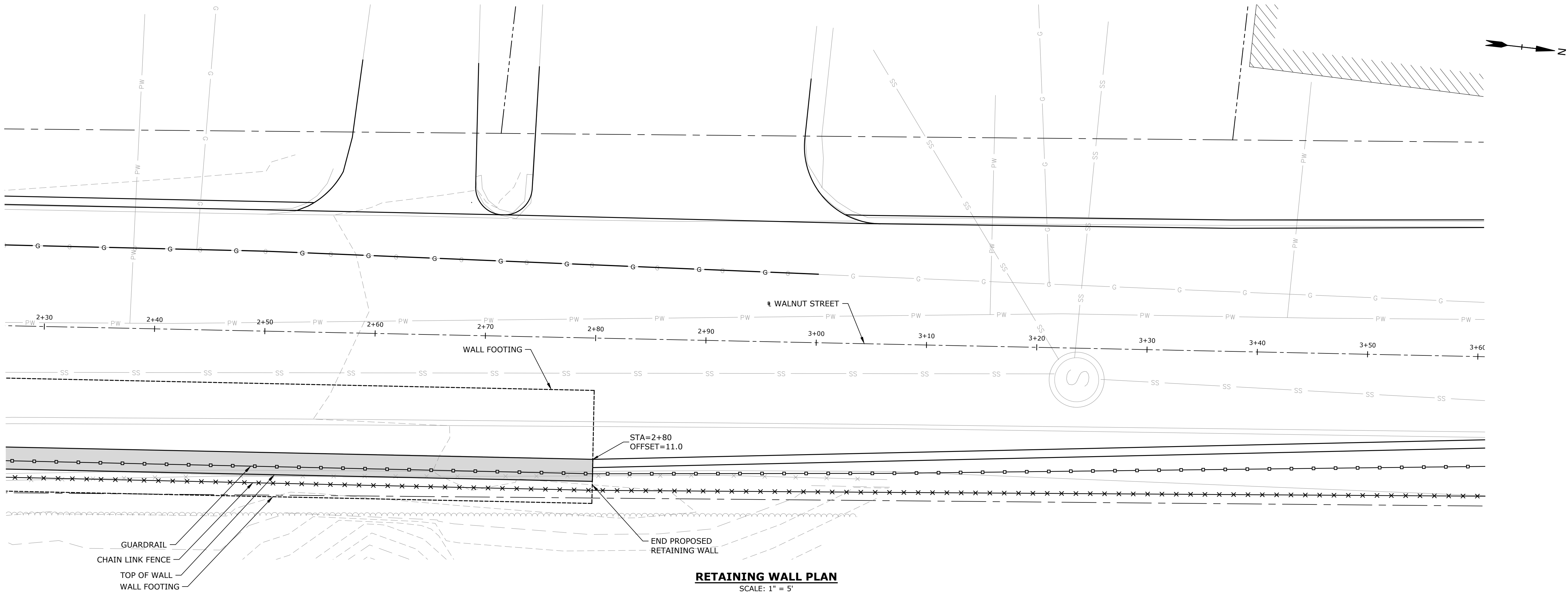
MARK	DATE	DESCRIPTION
PROJECT NO:	N0363-059	
DATE:	JULY 2026	
FILE:	N0363-059 RW plan and ELV.dwg	
DRAWN BY:	JKM, MLM	
DESIGNED/CHECKED BY:	DSH, OJC	
APPROVED BY:	CSF	

**RETAINING WALL PLAN AND
ELEVATION**

SCALE: 1" = 5'

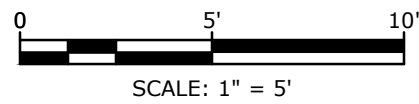
C-401
SHEET 12 OF 26

Last Saved: 6/29/2026 4:23pm By: MMottoliese
Plotted On: Jun 30, 2026 4:23pm
Tighe & Bond\3\N\N0363\059 Walnut Street Retaining Wall Repairs\Drawings Figures\AutoCAD\Sheet\N0363-059 RW plan and ELV.dwg



NOTES

- BEDROCK ELEVATION BETWEEN BORING LOCATIONS ARE INTERPRETTED AND MAY NOT REPRESENT ACTUAL BEDROCK ELEVATION. ELEVATIONS TO BE VERIFIED IN THE FIELD.
- THE WALL HEIGHT IS BASED ON THE ASSUMED BEDROCK ELEVATION USED IN THE DESIGN AND SHOULD BE CONSIDERED APPROXIMATE. THE FOOTING ELEVATION SHOULD TYPICALLY REQUIRE NO GREATER THAN 1 FOOT OF ROCK REMOVAL. IF BEDROCK ELEVATIONS ENCOUNTERED IN THE FIELD DIFFER BY MORE THAN 1 FOOT FROM WHAT IS ASSUMED ON THESE PLANS AND AS PART OF THE DESIGN, THE ENGINEER SHOULD BE CONTACTED IMMEDIATELY AND AFFORDED THE OPPORTUNITY TO REEVALUATE THE DESIGN AS NECESSARY.
- CONTRACTION JOINTS SHOWN ON THIS ELEVATION ARE REQUIRED AT THESE LOCATIONS. FOR LOCATIONS OF ADDITIONAL CONTRACTION JOINTS, REFER TO THE SPACING REQUIREMENTS OF THE CONTRACTION JOINT DETAIL.



Walnut Street Retaining Wall Repairs

City of North Adams

North Adams, Massachusetts

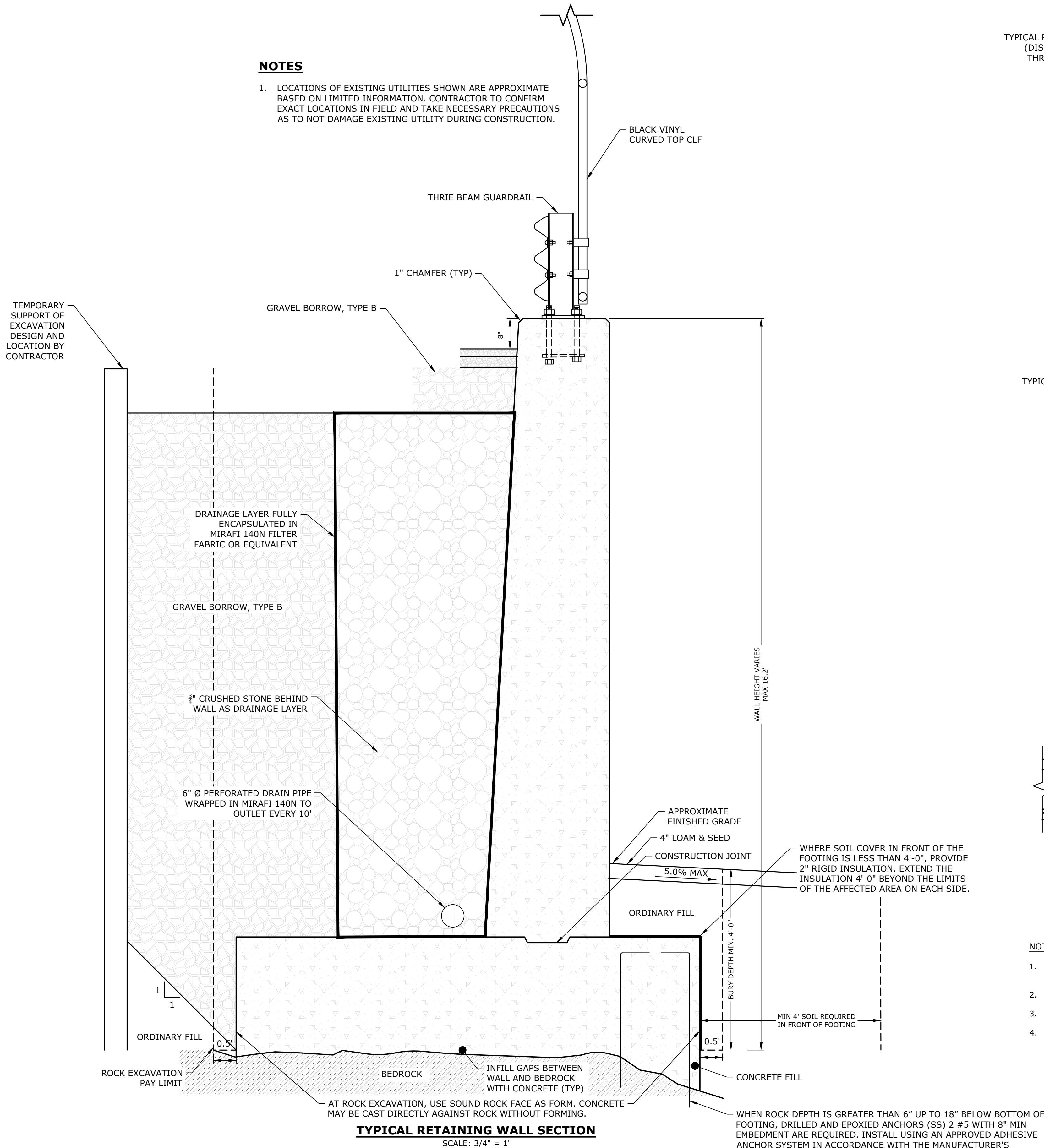
MARK	DATE	DESCRIPTION
PROJECT NO:	N0363-059	
DATE:	JULY 2026	
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DRAWN BY:	JKM, MLM	
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APPROVED BY:	CSF	

RETAINING WALL PLAN AND ELEVATION

SCALE: 1" = 5'

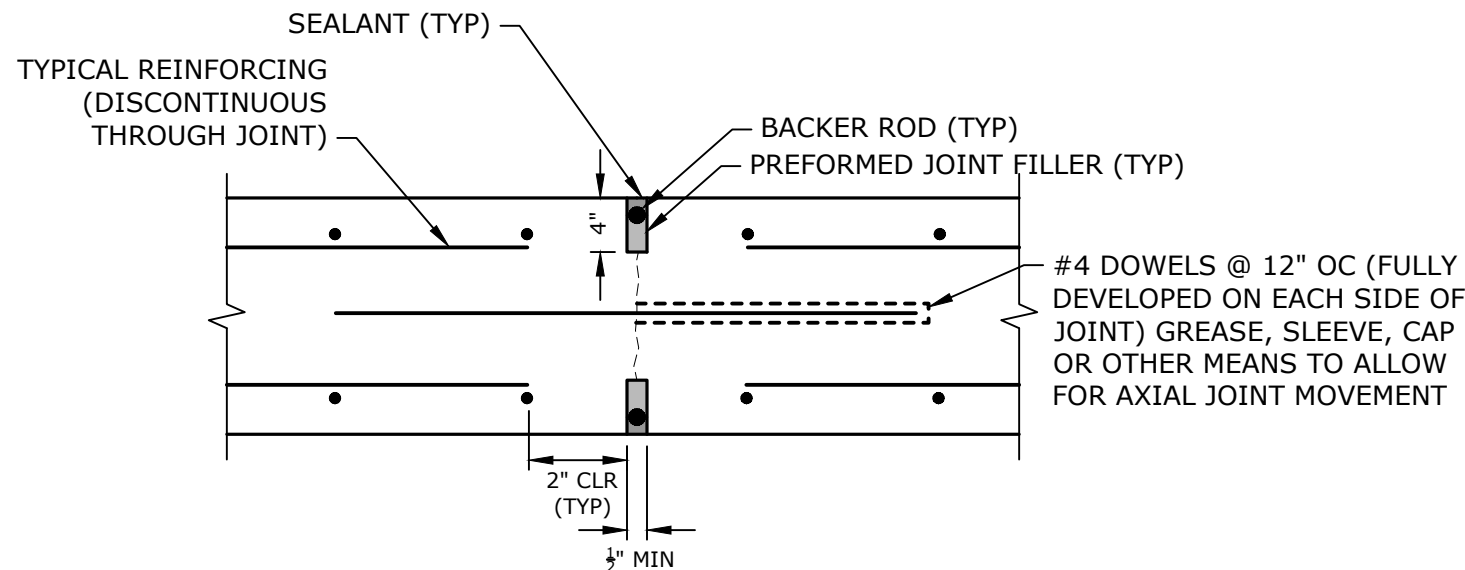
C-402
SHEET 13 OF 26

Last Saved: 7/1/2026
Plotted On: Jul 01, 2026 11:29am By: Mkhottalee
Tighe & Bond\J:\W0363-059 Walnut Street Retaining Wall Repairs\Drawings_Figures\AutoCAD\Sheet\W0363-059 Typical RW Section.dwg



NOTES

1. LOCATIONS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE BASED ON LIMITED INFORMATION. CONTRACTOR TO CONFIRM EXACT LOCATIONS IN FIELD AND TAKE NECESSARY PRECAUTIONS AS TO NOT DAMAGE EXISTING UTILITY DURING CONSTRUCTION.

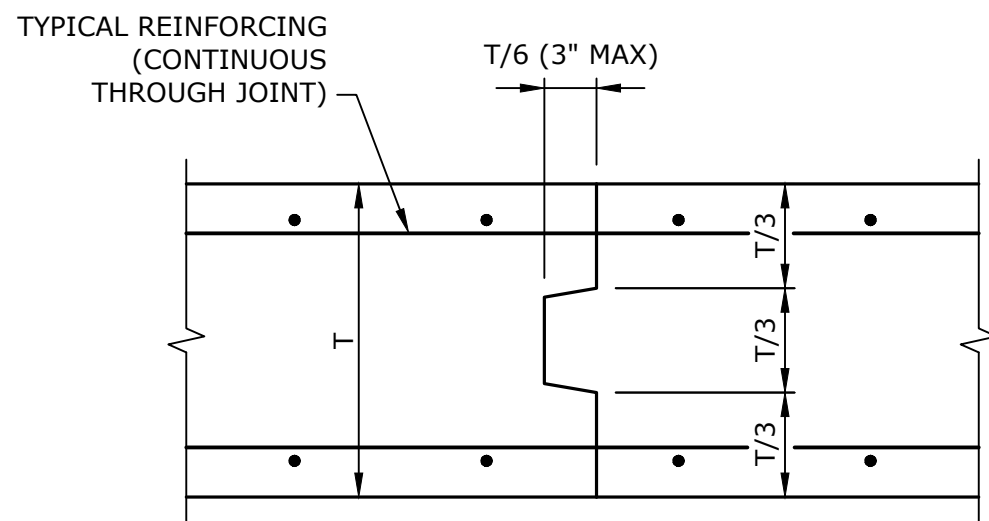


CONCRETE WALL CONTRACTION JOINT

NO SCALE

NOTES:

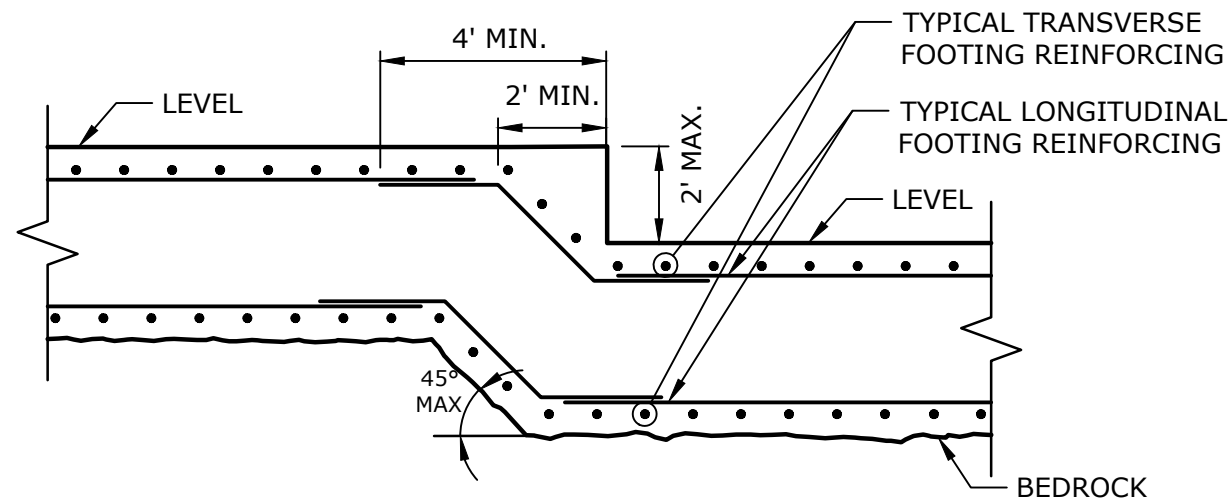
1. CONCRETE IS PLACED MONOLITHICALLY ON BOTH SIDES OF ALL CONTRACTION JOINTS.
2. CONTRACTION JOINTS TO BE SPACED NO GREATER THAN 15' OC.



CONSTRUCTION JOINT

NO SCALE

NOTE: CONSTRUCTION JOINTS TO BE SPACED NO LESS THAN 15' OC AND NO GREATER THAN 25' OC.



FOOTING REINFORCING STEP DETAIL

NO SCALE

NOTES:

1. PROVIDE STEP IN FOOTING ALONG LENGTH OF FOOTING TO ACCOMMODATE VARIANCE IN LEDGE ELEVATIONS.
2. TOP OF FOOTING TO REMAIN LEVEL INBETWEEN FOOTING STEPS.
3. LAP LONGITUDINAL REINFORCING AS REQUIRED.
4. MAINTAIN 2.25-FT THICKNESS OF FOOTING (MINIMUM) AT ALL TIMES.

NOTES:

1. LIMIT OF GRAVEL BORROW SHALL BE NO FURTHER THAN 1' PAST FACE OF CURB ON WEST SIDE OF ROAD. USE ORDINARY BORROW OUTSIDE OF THESE LIMITS.
2. WHERE ROCK IS ENCOUNTERED, LEAVE IN PLACE OF GRAVEL BORROW.

IF ROCK DEPTH EXCEEDS 18" BELOW BOTTOM OF FOOTING DEPTH, THE ENGINEER MUST BE NOTIFIED PRIOR TO PROCEEDING WITH WORK.



**Walnut Street
Retaining Wall
Repairs**

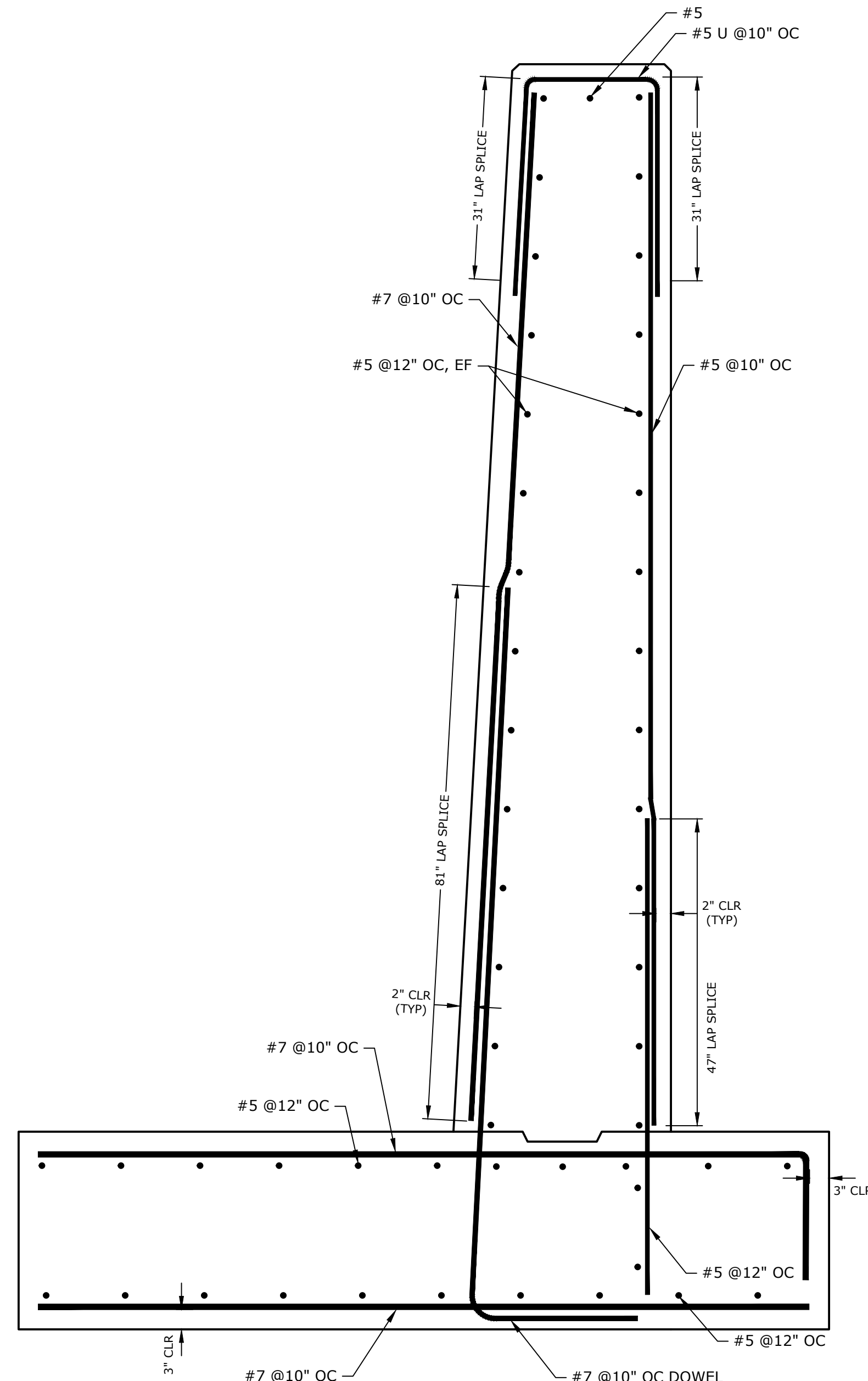
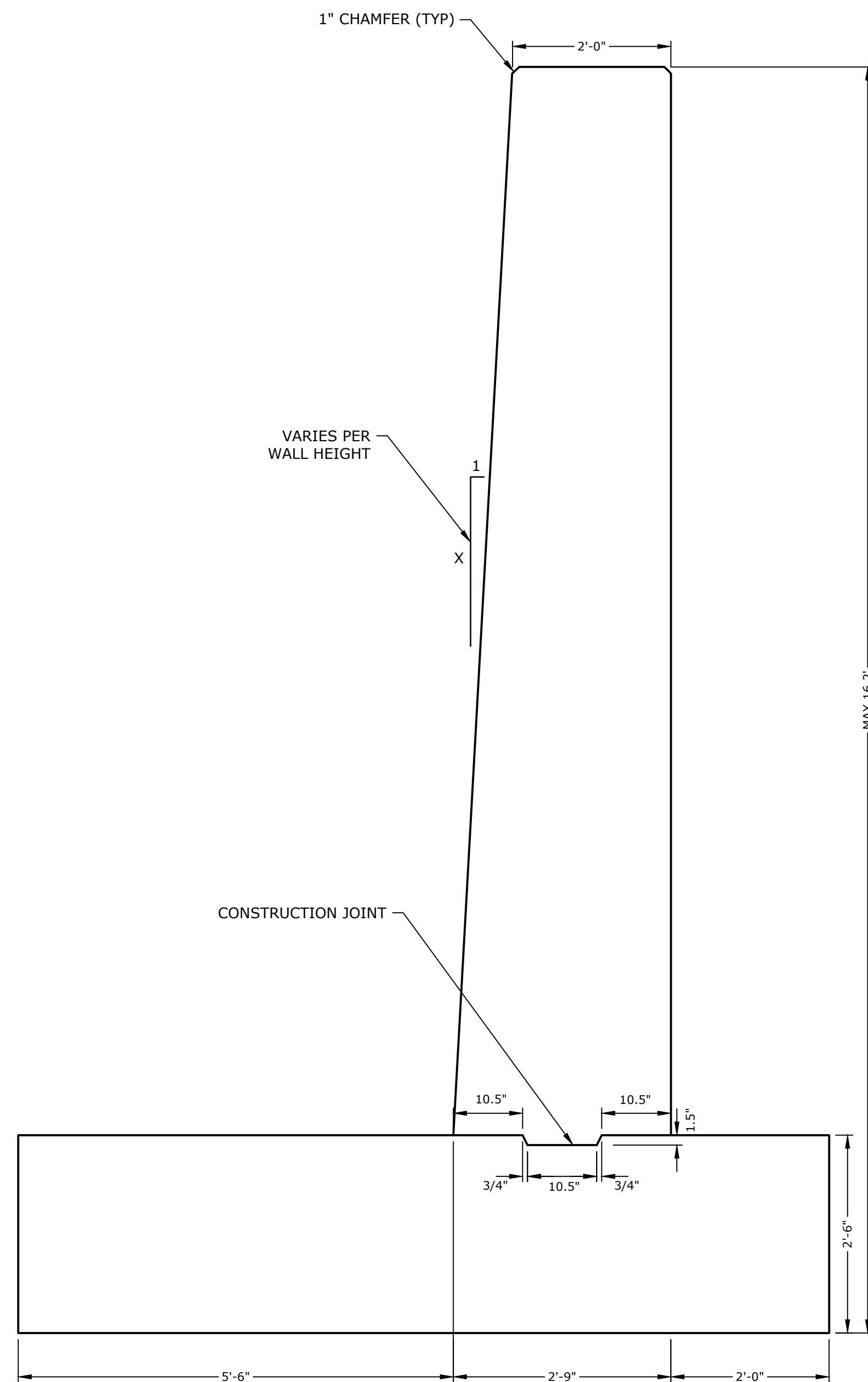
City of North
Adams

North Adams,
Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO:	N0363-059	
DATE:	JULY 2026	
FILE:	N0363-059 Typical RW Section.dwg	
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APPROVED BY:	CSF	

**TYPICAL RETAINING WALL
SECTION**

SCALE: AS SHOWN



CONCRETE

1. CONCRETE WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318), AND SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDING (ACI 301).
2. CONCRETE SHALL BE CONTROLLED CONCRETE, PROPORTIONED, MIXED, AND PLACED UNDER THE SUPERVISION OF AN APPROVED CONCRETE TESTING AGENCY AND THE ENGINEER.
3. CONCRETE SHALL BE NORMAL WEIGHT CONCRETE AND SHALL HAVE A COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, UNLESS OTHERWISE NOTED AND SHALL BE AIR ENTRAINED (SEE SPECS).
4. THE USE OF CONSTRUCTION JOINTS WHERE SHOWN ON THE DRAWINGS IS MANDATORY, OMISSIONS, ADDITIONS OR CHANGES SHALL NOT BE MADE EXCEPT WITH THE SUBMISSION OF A WRITTEN REQUEST TOGETHER WITH DRAWINGS OF THE PROPOSED JOINT LOCATIONS FOR APPROVAL OF THE STRUCTURAL ENGINEER.
5. WHERE CONSTRUCTION JOINTS ARE NOT SHOWN, DRAWINGS SHOWING LOCATION OF CONSTRUCTION JOINTS AND CONCRETE PLACING SEQUENCE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PREPARATION OF THE REINFORCEMENT SHOP DRAWINGS.
6. CONCRETE SLABS AND WALLS SHALL BE CAST ALTERNATELY OR IN A CHECKERBOARD FASHION SO THAT ADJACENT SECTIONS ARE PLACED NO SOONER THAN THREE DAYS APART, AT LEAST TWO DAYS MUST ELAPSE AFTER PLACING CONCRETE IN WALLS BEFORE PLACING FLOOR SYSTEM SUPPORTED THEREON.
7. CONCRETE SHALL BE PLACED WITHOUT HORIZONTAL CONSTRUCTION JOINTS EXCEPT WHERE SHOWN OR NOTED.
8. EXPOSED EDGES OF CONCRETE ELEMENTS SHALL HAVE CHAMFERED CORNERS.
9. ONLY CRITICAL CONSTRUCTION JOINTS ARE SHOWN. SEE SPECIFICATIONS FOR REQUIRED MAXIMUM SPACING OF CONSTRUCTION JOINTS.

REINFORCEMENT

1. DETAILING, FABRICATION, AND ERECTION OF REINFORCEMENT, UNLESS OTHERWISE NOTED, SHALL CONFORM TO ACI "BUILDING REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318)" AND "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315)", LATEST EDITION.
2. STEEL REINFORCEMENT UNLESS OTHERWISE SHOWN SHALL CONFORM TO ASTM A615 GRADE 60 MINIMUM (YIELD STRENGTH - 60,000 PSI).
3. WELDED WIRE FABRIC REINFORCEMENT SHALL CONFORM TO: ASTM A185.
4. PROVIDE AND SCHEDULE ON SHOP DRAWINGS, ALL NECESSARY ACCESSORIES TO HOLD REINFORCEMENT SECURELY IN POSITION: MINIMUM REQUIREMENTS SHALL BE: HIGH CHAIRS, 4'-0" PM CENTER, #5 SUPPORT BARS FOR HIGH CHAIRS, SLAB BOLSTERS, 3'-6" ON CENTER, ALL WIRE CHAIRS AND BOLSTERS TO BE PLASTIC TIPPED.
5. THE CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT SHALL BE AS FOLLOWS, UNLESS OTHERWISE SHOWN:
 - 5.1. CAST-IN-PLACE CONCRETE

CONDITION	EXPOSED TO EARTH, WATER OR WEATHER	NOT EXPOSED TO EARTH, WATER OR WEATHER
(a) SLAB ON GRADE	3 INCHES	2 INCHES
(b) SLAB/WALL #3 TO #5 BARS	1-1/2 INCHES	3/4 INCH
(c) SLAB/WALL #6 TO #11 BARS	2 INCHES	3/4 INCH
(e) SPILLWAY TRAINING WALLS	3 INCHES	3 INCHES

(f) NOTE: MAXIMUM DEVIATION FROM THESE REQUIREMENTS SHALL BE +1/4" FOR SECTIONS TEN (10) INCHES OR LESS, AND +1/2" FOR SECTIONS OVER TEN (10) INCHES THICK.
 - 5.2. IN NO CASE SHALL THE COVER BE LESS THAN THE BAR DIAMETER.
 - 5.3. WHERE CONTINUOUS BARS ARE CALLED FOR THEY SHALL BE RUN CONTINUOUSLY AROUND CORNERS AND LAPPED AT NECESSARY SPLICES OR HOOKED AT DISCONTINUOUS ENDS.
6. WHERE REINFORCEMENT IS NOT SHOWN ON DRAWINGS, PROVIDE REINFORCEMENT IN ACCORDANCE WITH APPLICABLE TYPICAL DETAILS OR SIMILAR TO THAT SHOWN FOR MOST NEARLY SITUATIONS, AS DETERMINED BY THE ENGINEER. IN NO CASE SHALL REINFORCEMENT BE LESS THAN MINIMUM REINFORCEMENT PERMITTED BY THE APPLICABLE CODES, NOR LESS THAN THE FOLLOWING:
 - A. BEAM STIRRUP SUPPORTS - 1-#5 @ EACH STIRRUP BEND
 - B. FACE REINFORCEMENT IN BEAMS OR PORTIONS OF BEAMS - #4 @ 12" E.F.
 - C. STRUCTURAL SLABS - .0028 GROSS CONCRETE AREA IN EACH DIRECTION
 - D. STRUCTURAL WALLS - .0028 GROSS CONCRETE AREA IN EACH DIRECTION
7. WHERE REINFORCEMENT IS CALLED FOR IN SECTION, REINFORCEMENT IS CONSIDERED TYPICAL WHEREVER THE SECTION APPLIES.
8. REINFORCEMENT SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
9. WELDED WIRE FABRICS SHALL LAP 12" OR TWO SPACES, WHICHEVER IS LARGER, AND SHALL BE WIRED TOGETHER.
10. REINFORCEMENT COUPLER SPLICES SHALL BE MECHANICAL DEVICES CAPABLE OF TRANSMITTING THE ULTIMATE TENSILE AND COMPRESSIVE STRENGTH OF THE BAR.
11. INSTALLATION OF REINFORCEMENT SHALL BE COMPLETE AT LEAST 24 HOURS PRIOR TO SCHEDULED CONCRETE PLACEMENT. NOTIFY ENGINEER OF COMPLETION AT LEAST 24 HOURS PRIOR TO SCHEDULED COMPLETION OF REINFORCEMENT PLACEMENT.
12. REINFORCEMENT SHALL BE SET BEFORE PLACING CONCRETE. SETTING ANY REINFORCEMENT INTO WET CONCRETE IS PROHIBITED.

FOUNDATIONS

1. NO CONCRETE SHALL BE PLACED IN WATER OR ON FROZEN GROUND.
2. BOTTOM OF FOUNDATION ELEVATIONS GIVEN ON DRAWINGS ARE TO BE CONSIDERED MINIMUM DEPTHS. CONTRACTOR SHALL HAVE FURTHER EXCAVATION AS REQUIRED TO REACH GOOD BEARING.
3. ALL EXCAVATIONS FOR FOOTINGS SHALL BE FINISHED BY HAND FOR THE LAST 6".
4. ALL FINISHED EXCAVATIONS SHALL BE INSPECTED BY THE ENGINEER BEFORE ANY CONCRETE IS PLACED.
5. ALL BACKFILL UNDER OR ADJACENT TO ANY PORTION OF THE STRUCTURES SHALL BE COMPACTED IN 6" LIFTS. SEE SPECIFICATIONS.
6. REMOVE UNSUITABLE FILL AND/OR IMPROVE THE SUBGRADE PER SPECIFICATION REQUIREMENTS. BACKFILL WITH COMPACTED STRUCTURAL (GRANULAR) FILL UP TO THE UNDERSIDE OF THE WALL AND TO GRADE. SEE SPECIFICATIONS.



Walnut Street Retaining Wall Repairs

City of North
Adams

North Adams,
Massachusetts

[illegible]

WALL DETAILS

SCALE: AS SHOWN

C-404
SHEET 15 OF 26

Walnut Street
Retaining Wall
Repairs

City of North
Adams

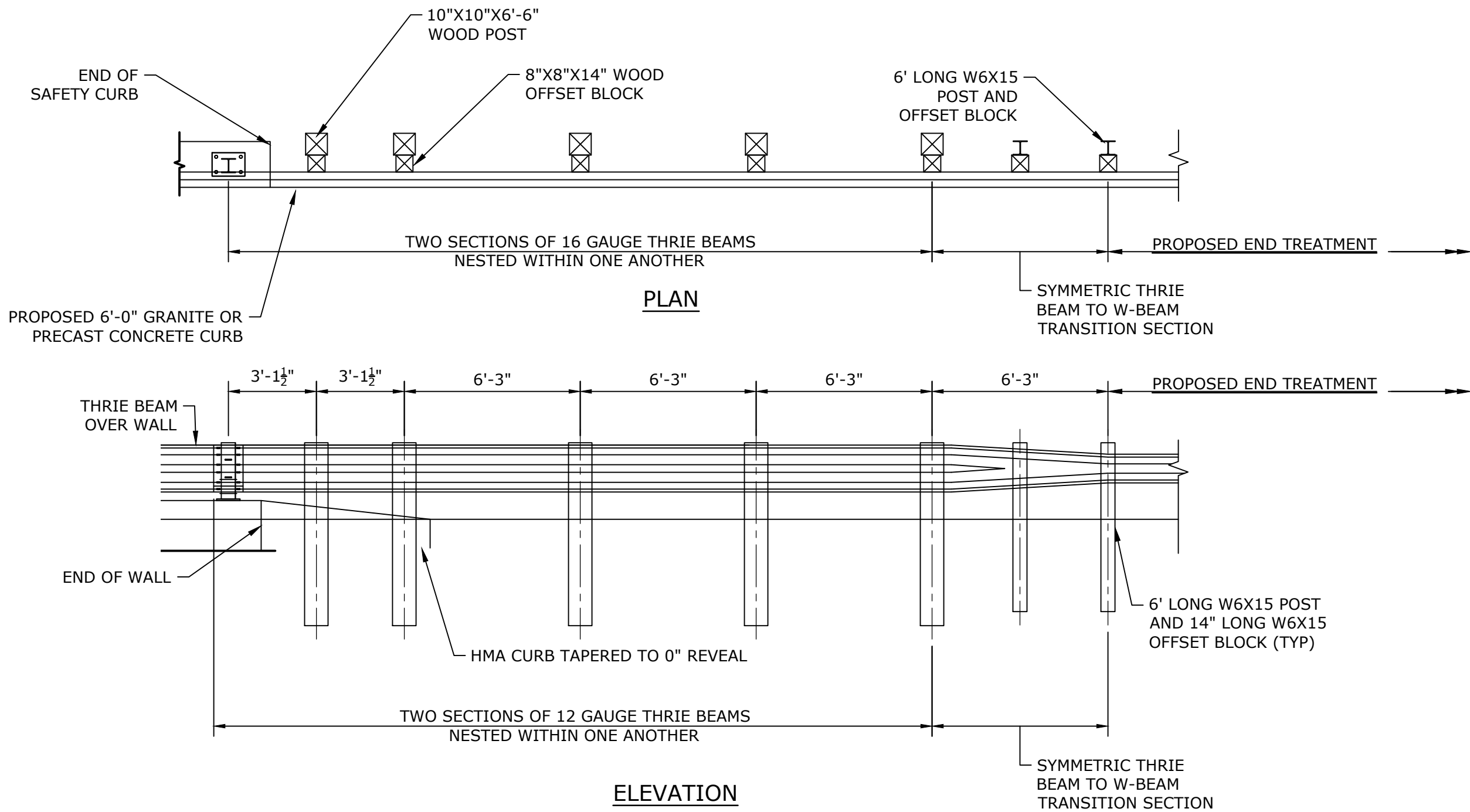
North Adams,
Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO:	N0363-059	
DATE:	JULY 2026	
FILE:	N0363-059 Typical RW Section.dwg	
DRAWN BY:	JKM, MLM	
DESIGNED/CHECKED BY:	DSH, OJC	
APPROVED BY:	CSF	

GUARDRAIL DETAILS

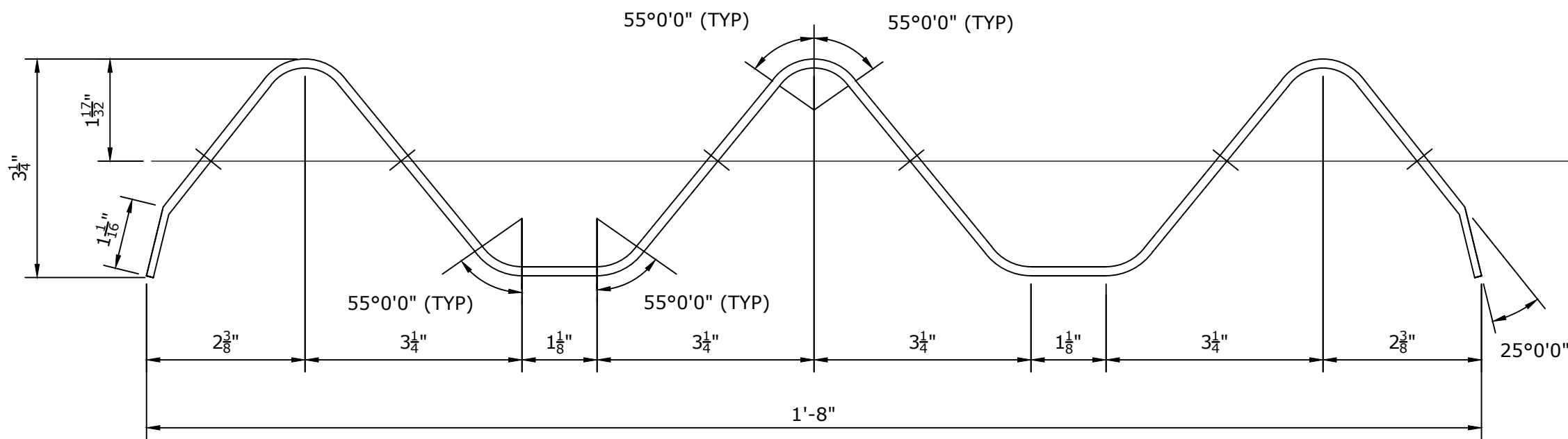
SCALE: AS SHOWN

C-405
SHEET 16 OF 26



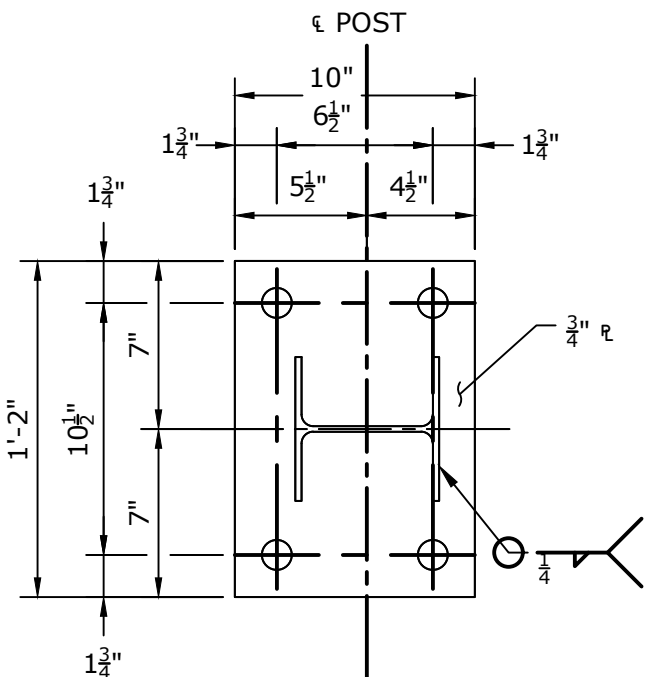
GUARD RAIL APPROACH TRANSITION

SCALE: 1/4" = 1'-0"



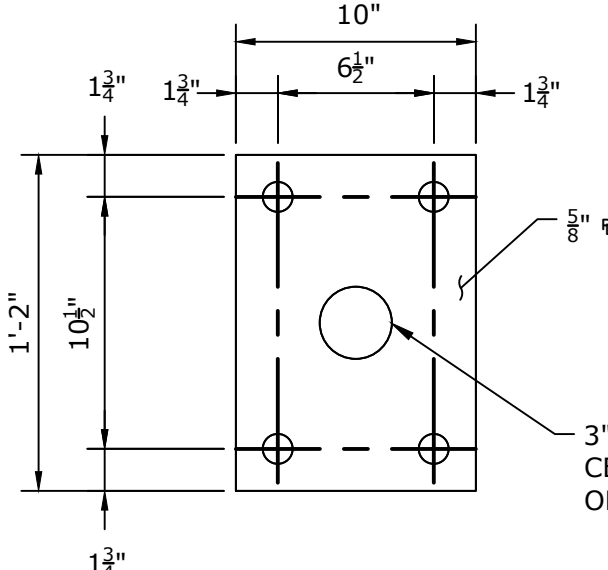
STEEL THRIE BEAM 10 GAUGE
WALL GUARDRAIL SECTION

SCALE: 6" = 1'-0"



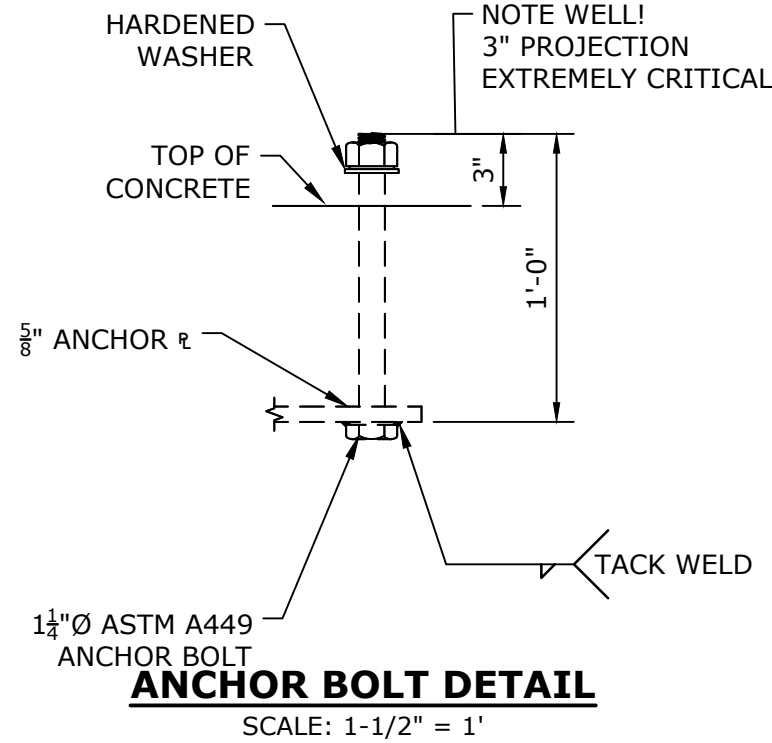
THRIE BEAM POST BASE PLATE DETAIL

SCALE: 1-1/2" = 1'



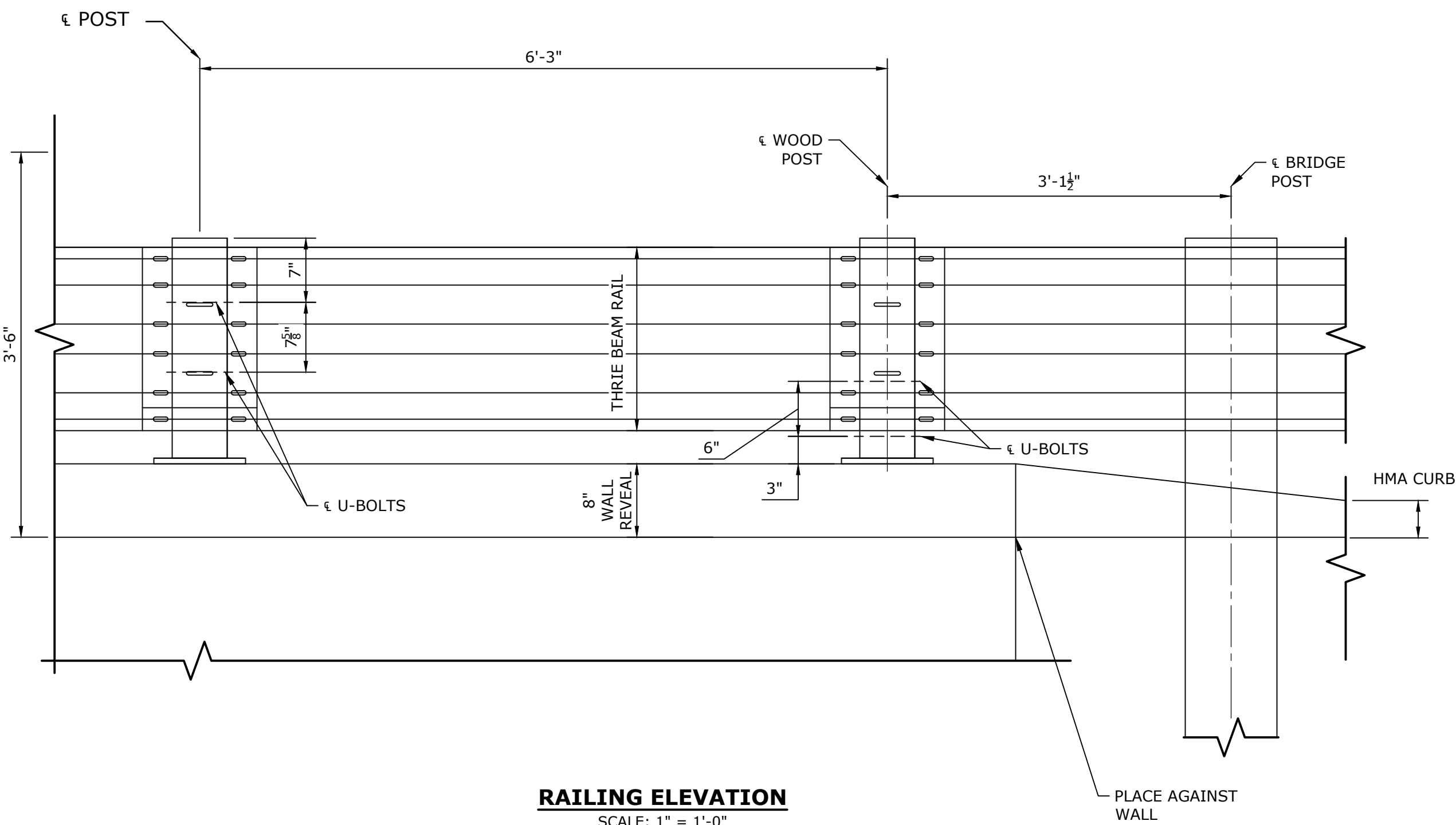
ANCHOR PLATE DETAIL

SCALE: 1-1/2" = 1'



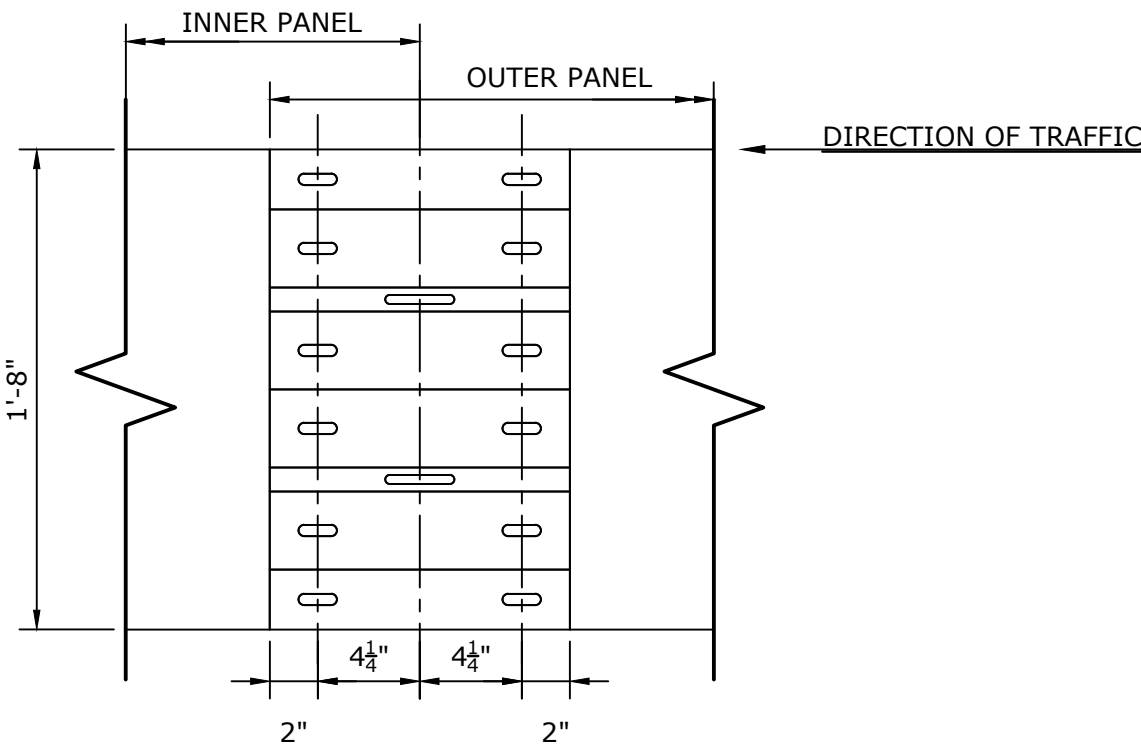
ANCHOR BOLT DETAIL

SCALE: 1-1/2" = 1'



RAILING ELEVATION

SCALE: 1" = 1'-0"



THRIE BEAM RAIL SPLICE ELEVATION

SCALE: 1-1/2" = 1'-0"

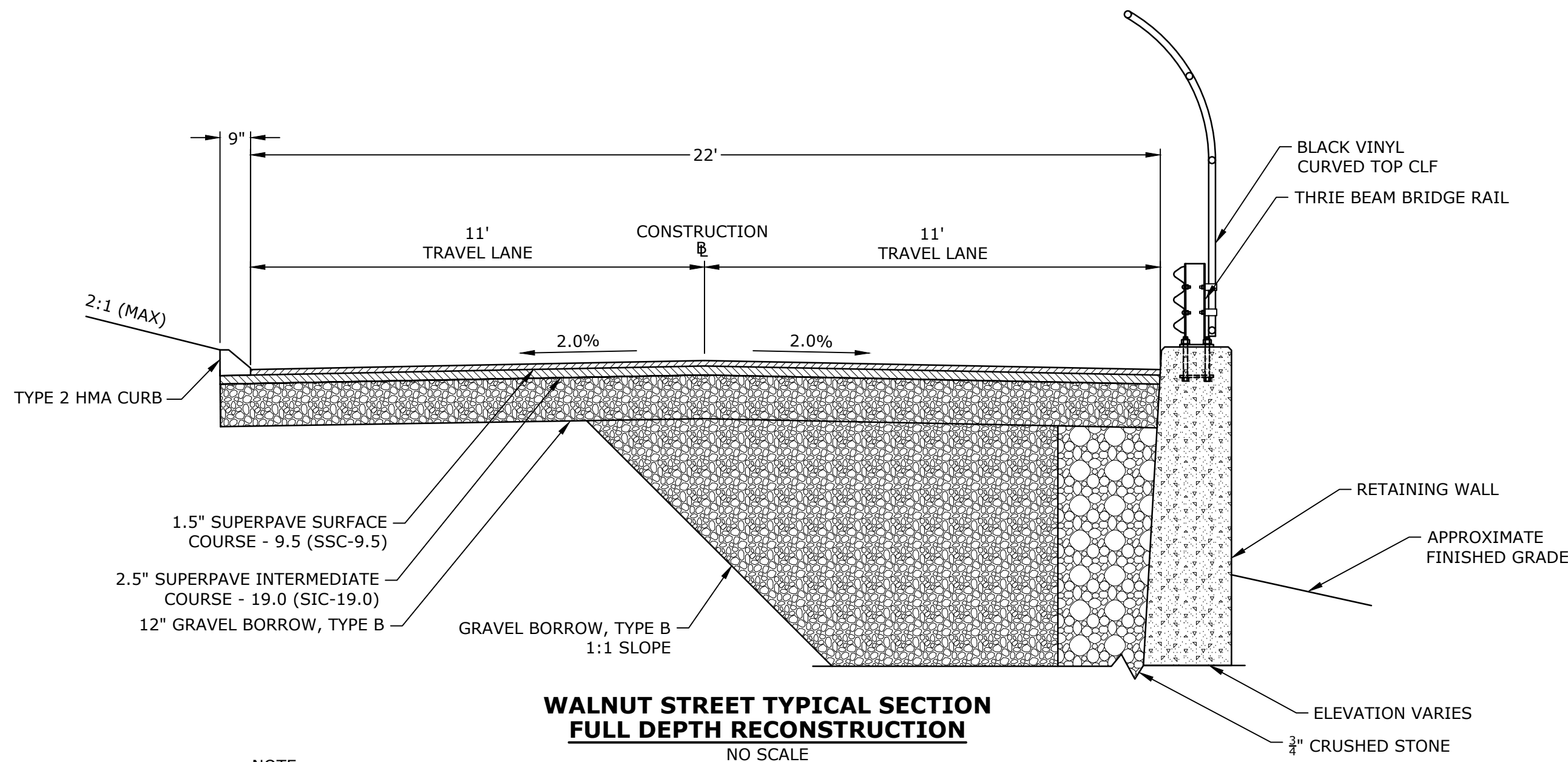
MATERIALS:

- RAIL POST, BASE PLATES AND ANCHOR PLATES SHALL BE AASHTO M270 GRADE 50 GALVANIZED.
- THRIE BEAM BRIDGE RAIL SHALL BE AASHTO M180, CLASS B (10 GAUGE), AND GALVANIZED.
- ALL BOLTS SHALL BE ASTM F3125 GRADE A325 GALVANIZED WITH COMPATIBLE NUTS AND WASHERS.

GENERAL NOTES:

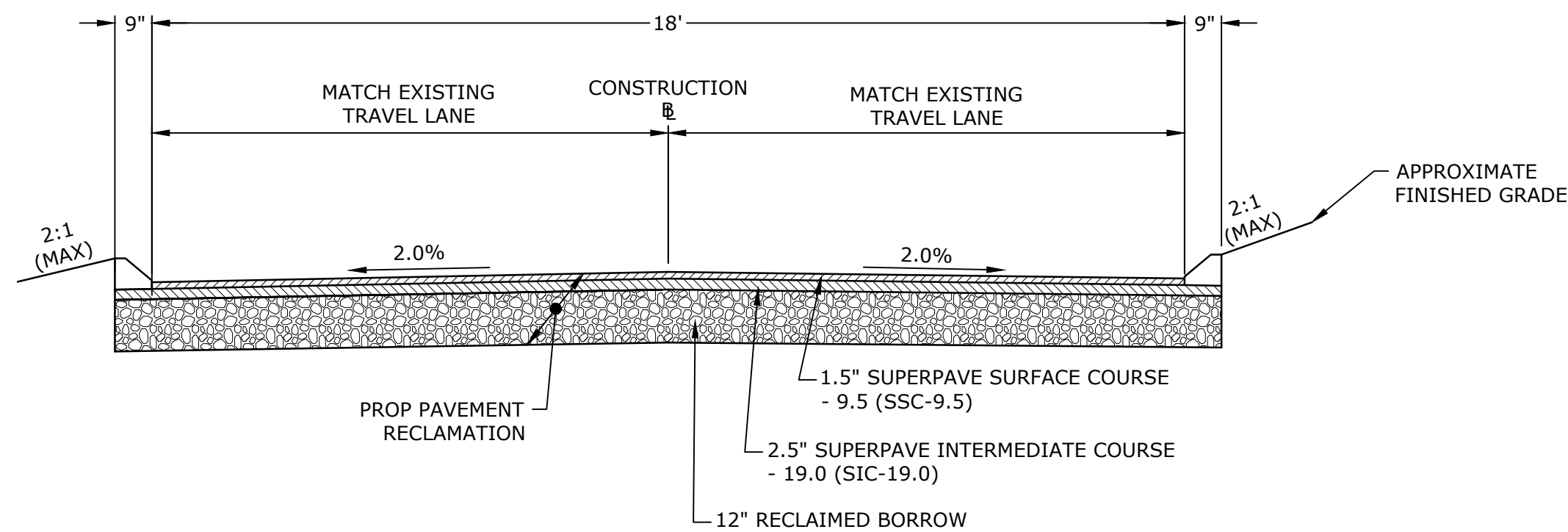
- SET POSTS PERPENDICULAR TO WALL.
- ANCHOR BOLTS SHALL BE SET WITH TEMPLATES. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL $\frac{1}{8}$ TURN AFTER STEEL IS IN PLACE.
- WELDING SHALL CONFORM TO THE REQUIREMENTS PF ANSI/AASHTO/AWS D.1.5.
- PLACE A REFLECTORIZED WASHER IN THE UPPER VALLEY OF EVERY THRIE BEAM POST

Last Saved: 6/24/2026
Plotted On: Jun 29, 2026 - 3:33pm By: Mhottelase
Tighe & Bond\31\W0363\059 Walnut Street Retaining Wall Repairs\Drawings- Figures\AutoCAD\Sheet\W0363-059 Misc- Civil Details.dwg



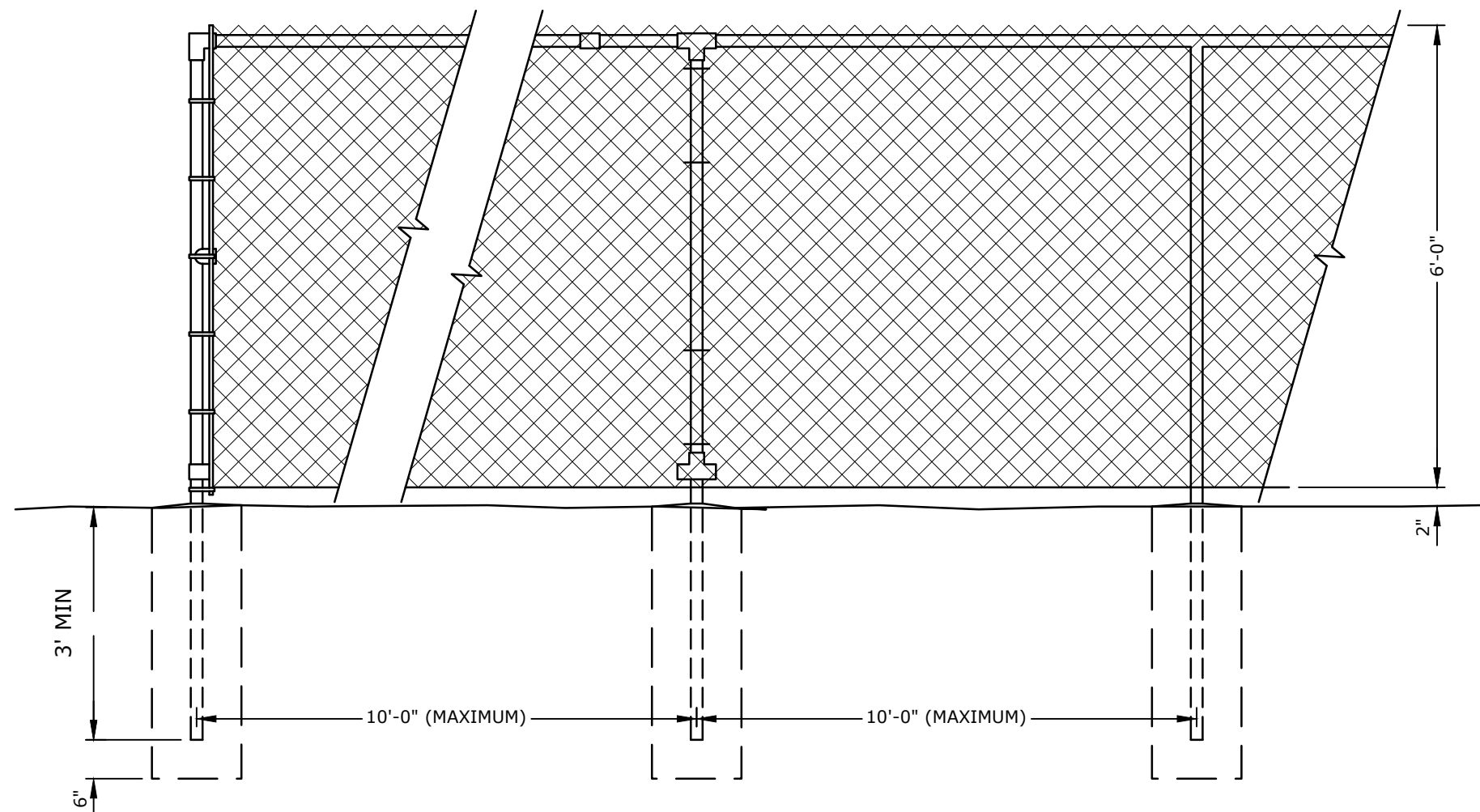
**WALNUT STREET TYPICAL SECTION
FULL DEPTH RECONSTRUCTION**
NO SCALE

NOTE:
1. ROAD SECTION SHOWN IS CONSIDERED TYPICAL. FIELD MODIFICATIONS TO MATCH EXISTING CONDITIONS ARE ANTICIPATED.
2. INSTALL GUARDRAIL AS SHOWN ON THE PLANS.

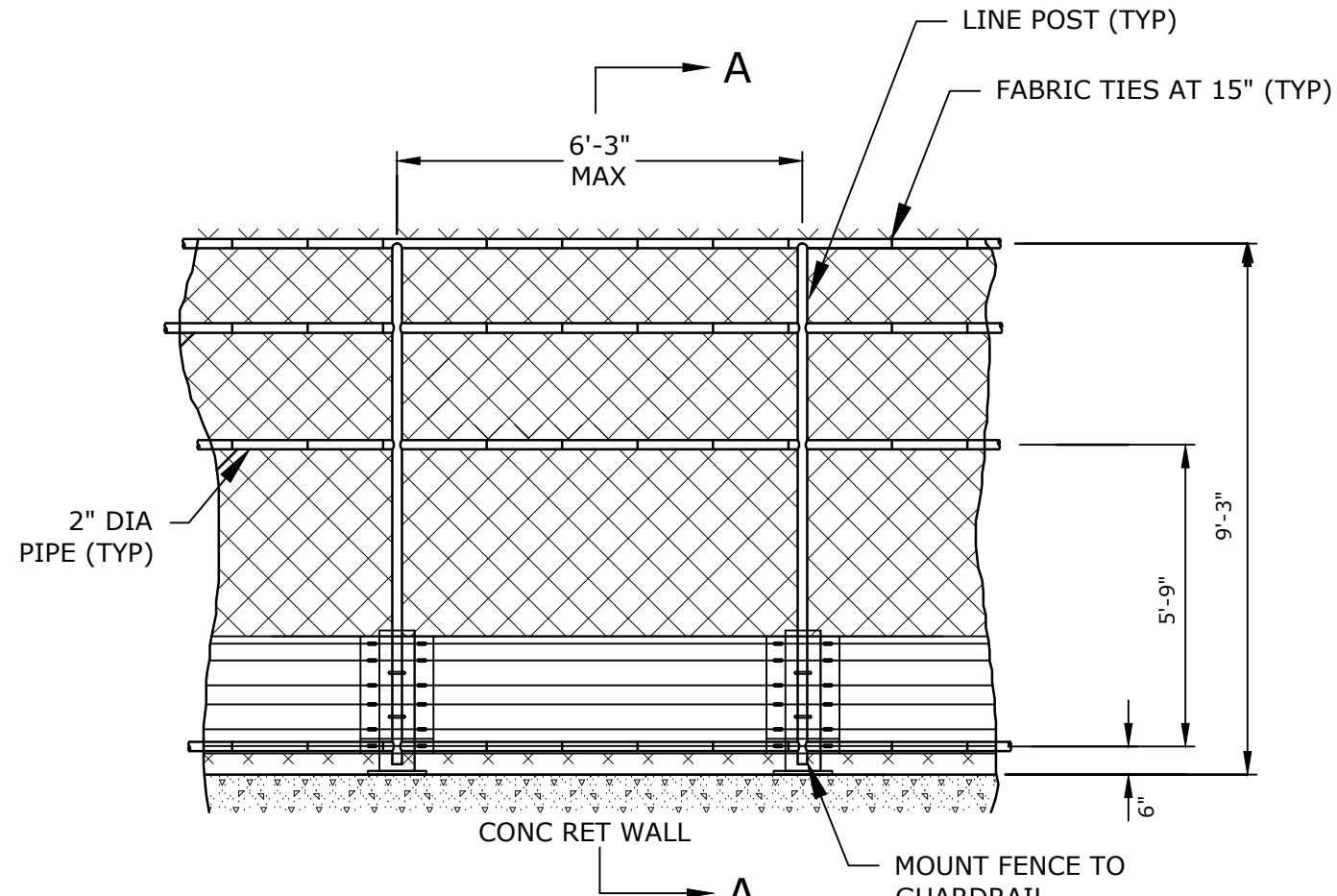


**OAK AVENUE TYPICAL SECTION
FULL DEPTH RECONSTRUCTION**
NO SCALE

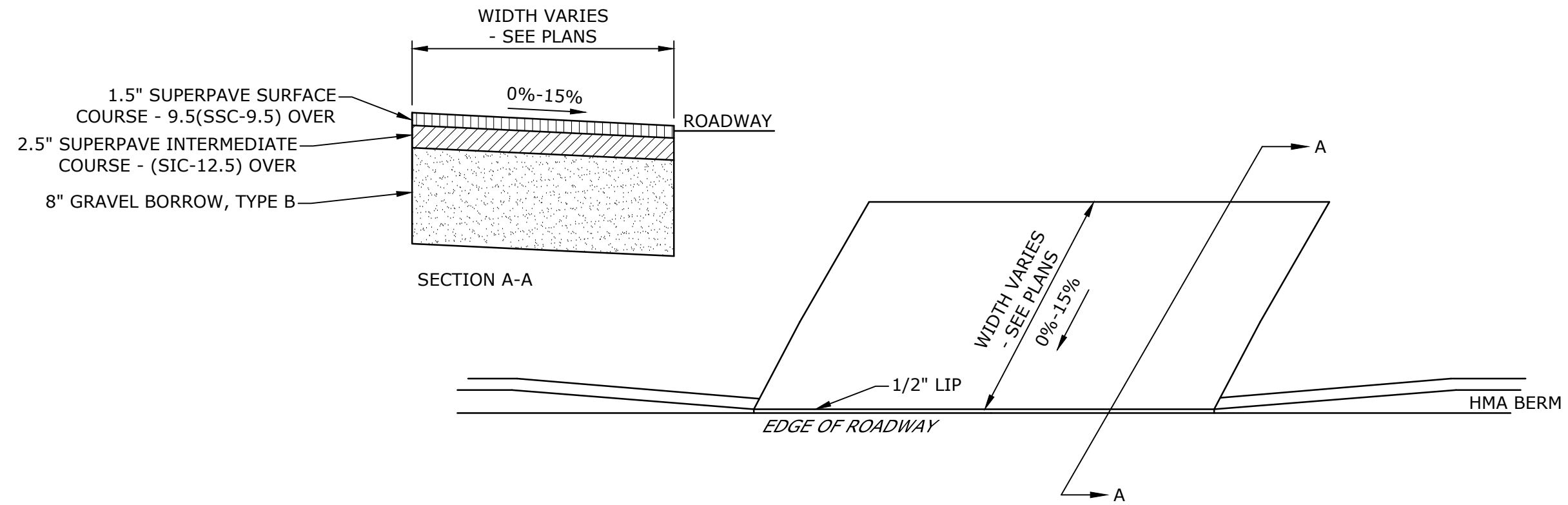
NOTE:
1. ROAD SECTION SHOWN IS CONSIDERED TYPICAL. FIELD MODIFICATIONS TO MATCH EXISTING CONDITIONS ARE ANTICIPATED.



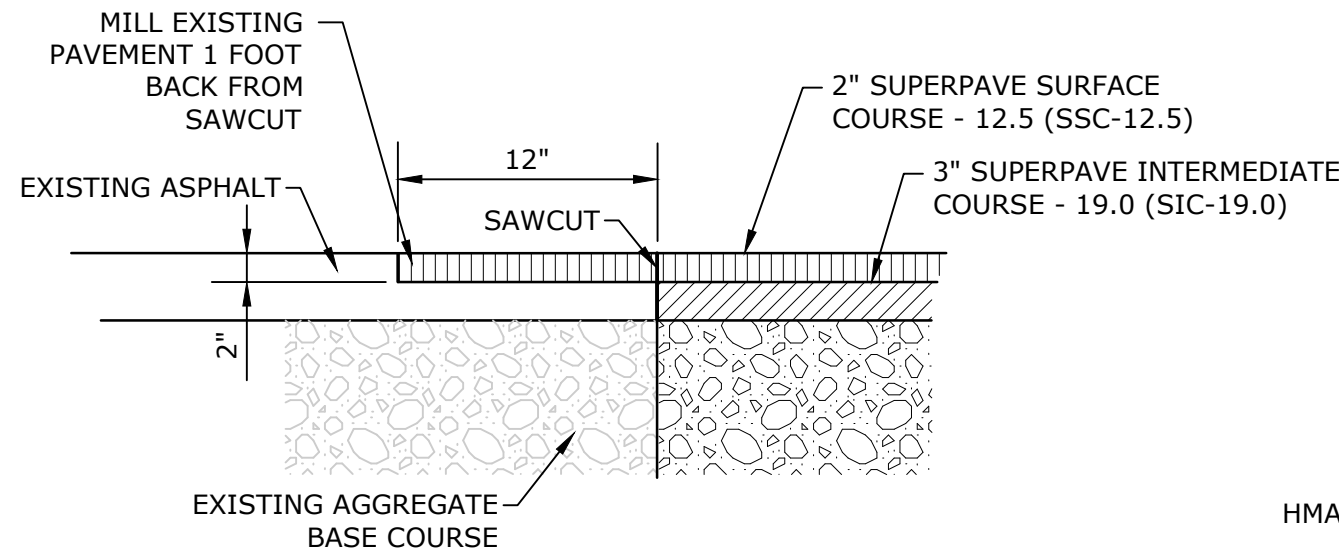
VINYL COATED CHAIN LINK FENCE
NO SCALE



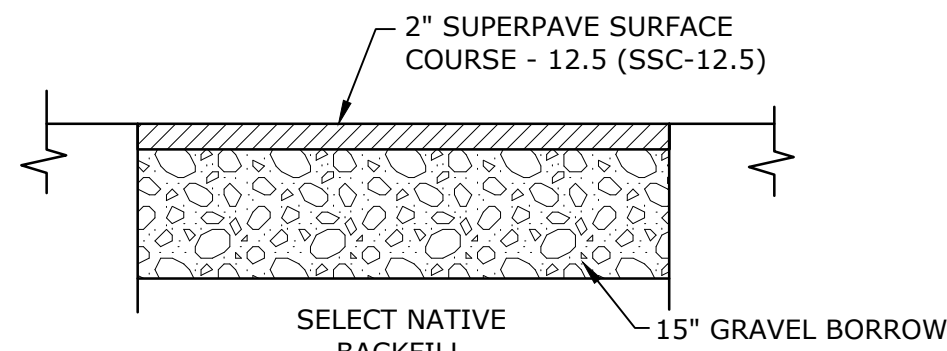
CURVED TOP CHAIN LINK FENCE
NO SCALE



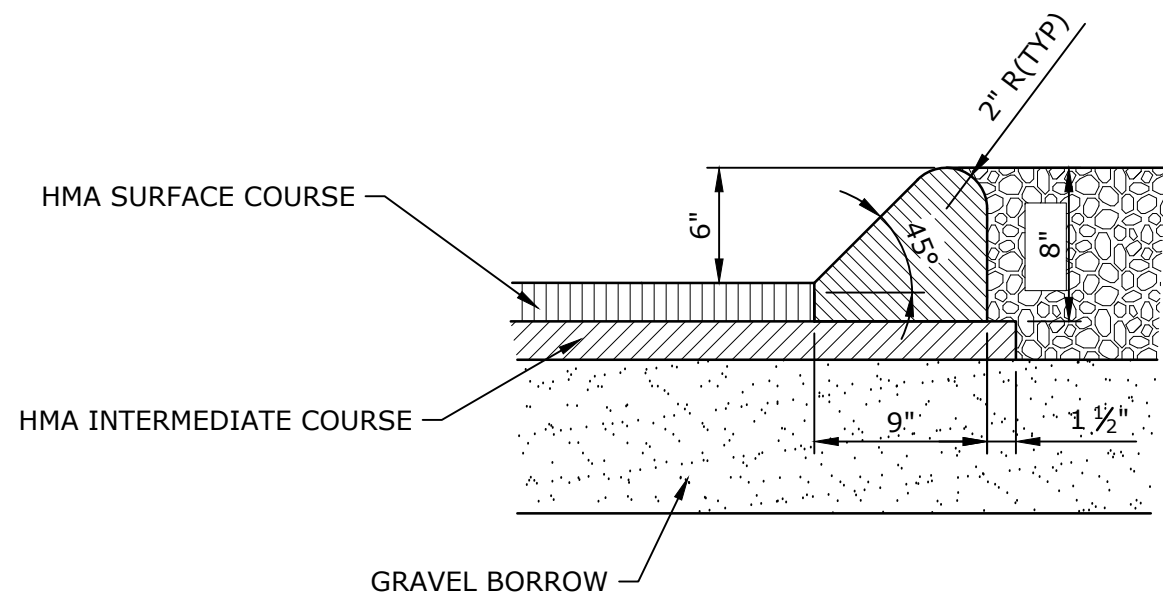
HMA DRIVEWAY REPAIR
NO SCALE



**TYPICAL BUTT JOINT
TO EXISTING PAVEMENT**
NO SCALE



TEMPORARY TRENCH REPAIR
NO SCALE



HMA CURB - TYPE 2
NO SCALE

Walnut Street Retaining Wall Repairs

City of North Adams

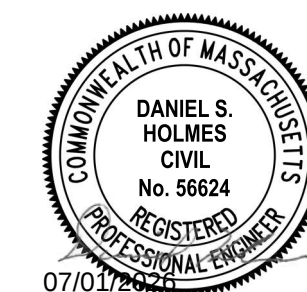
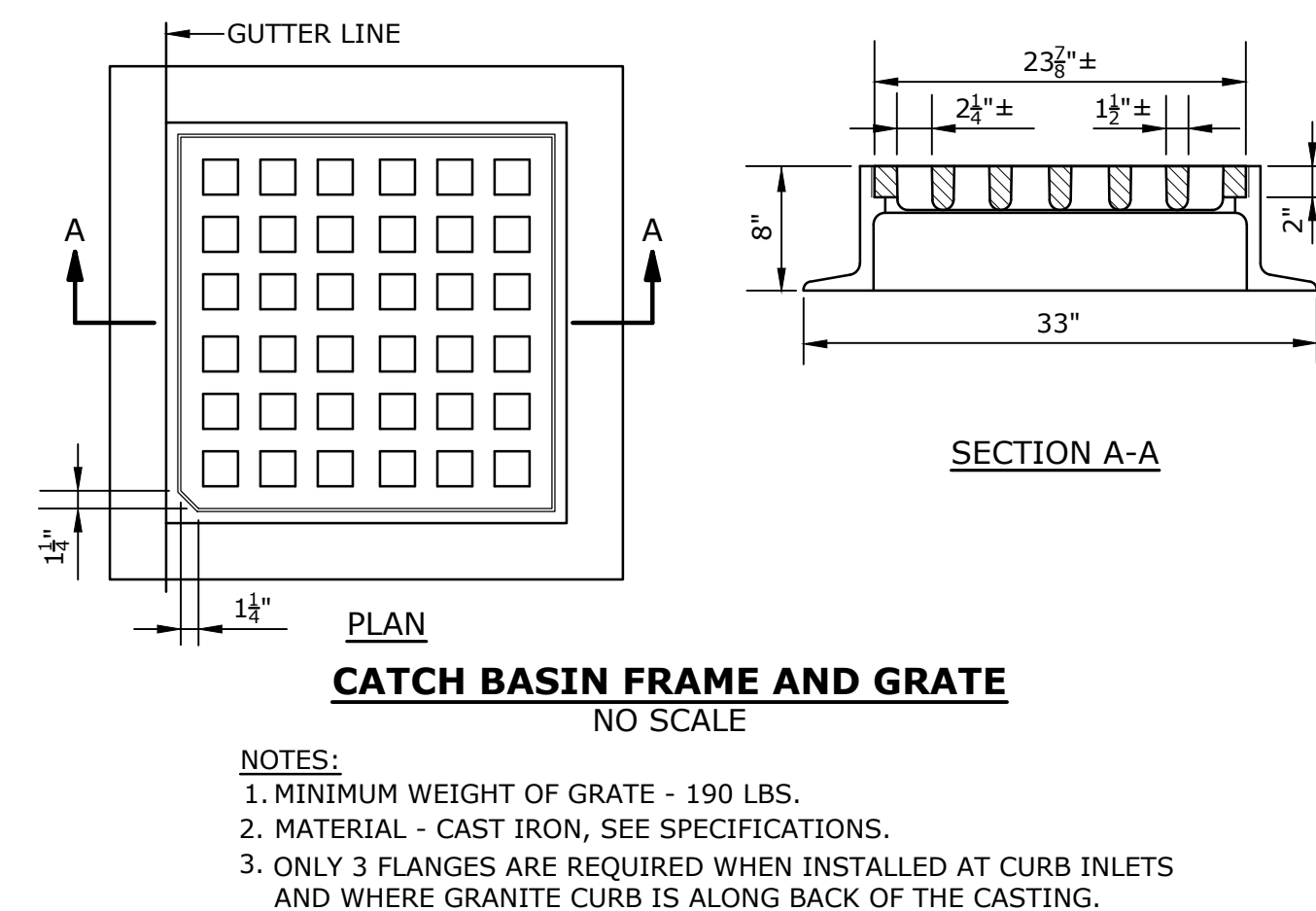
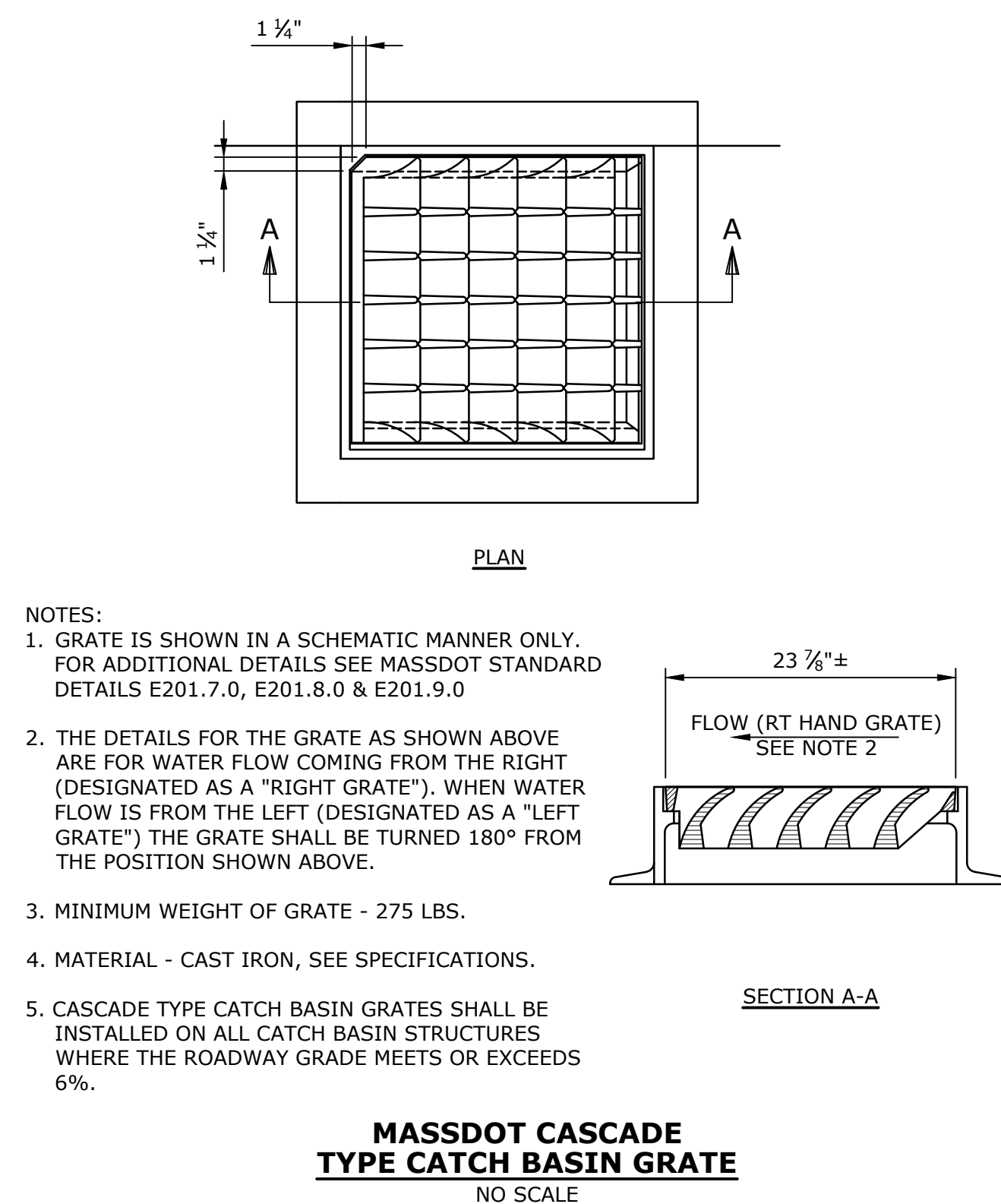
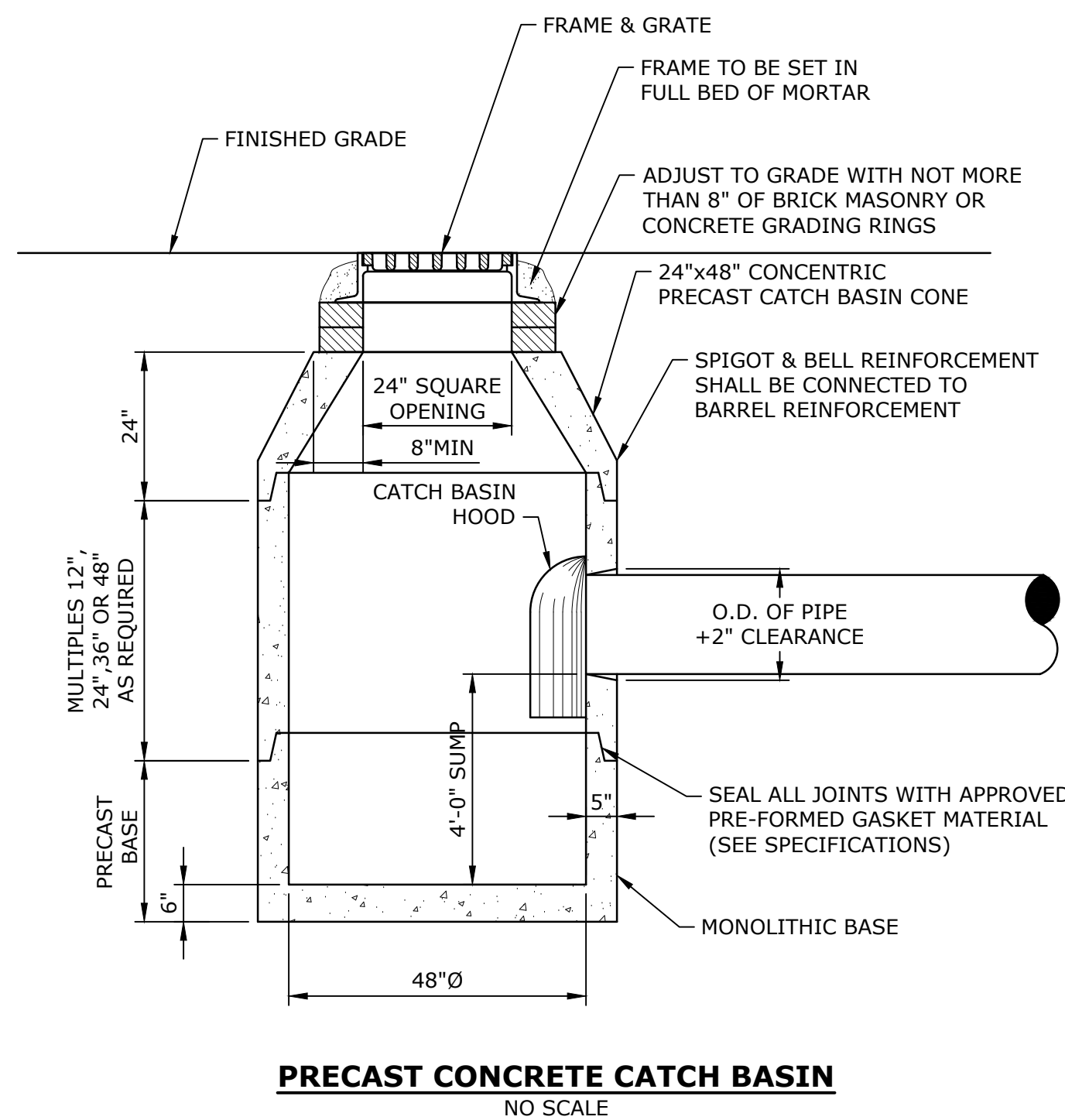
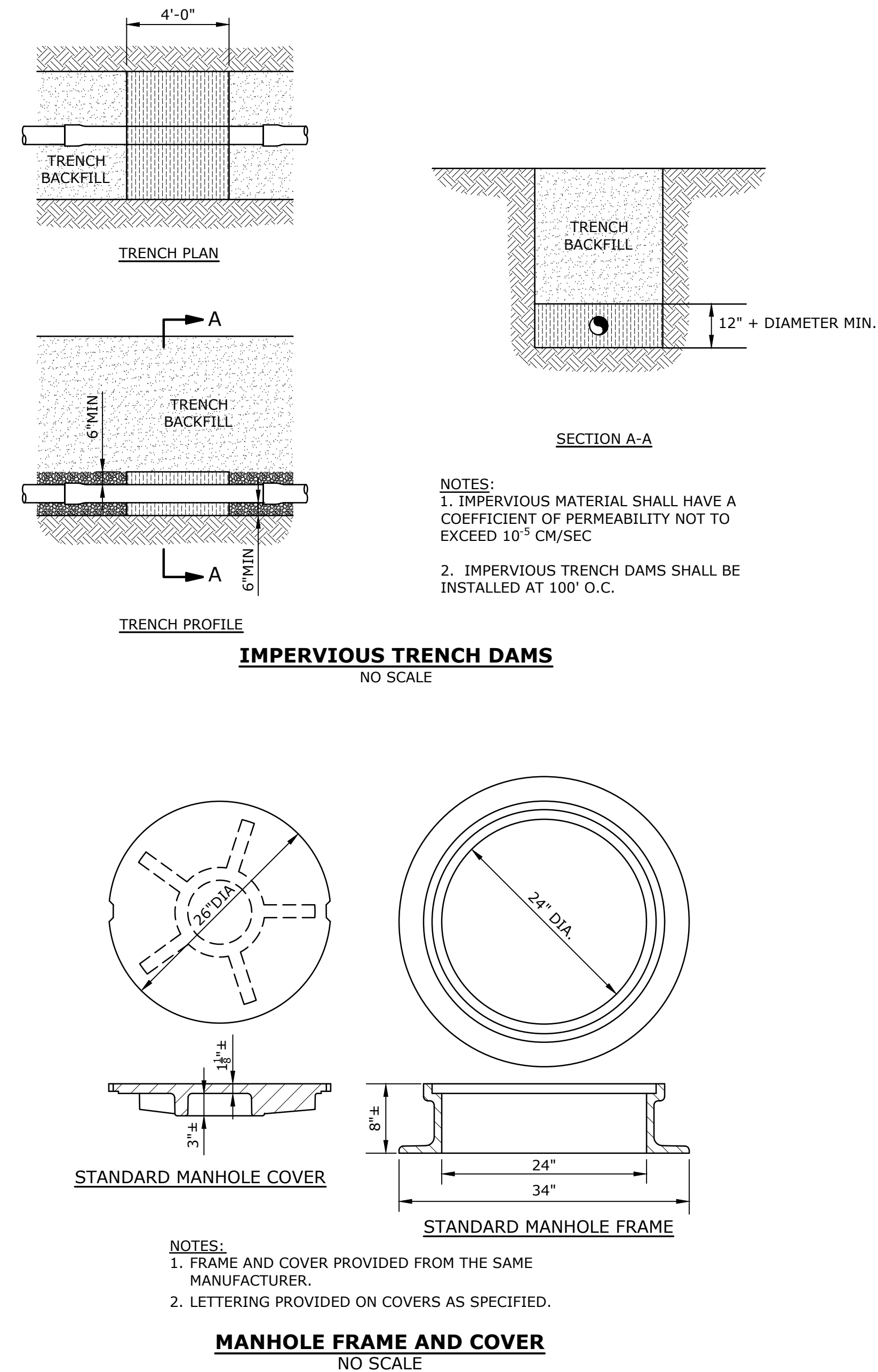
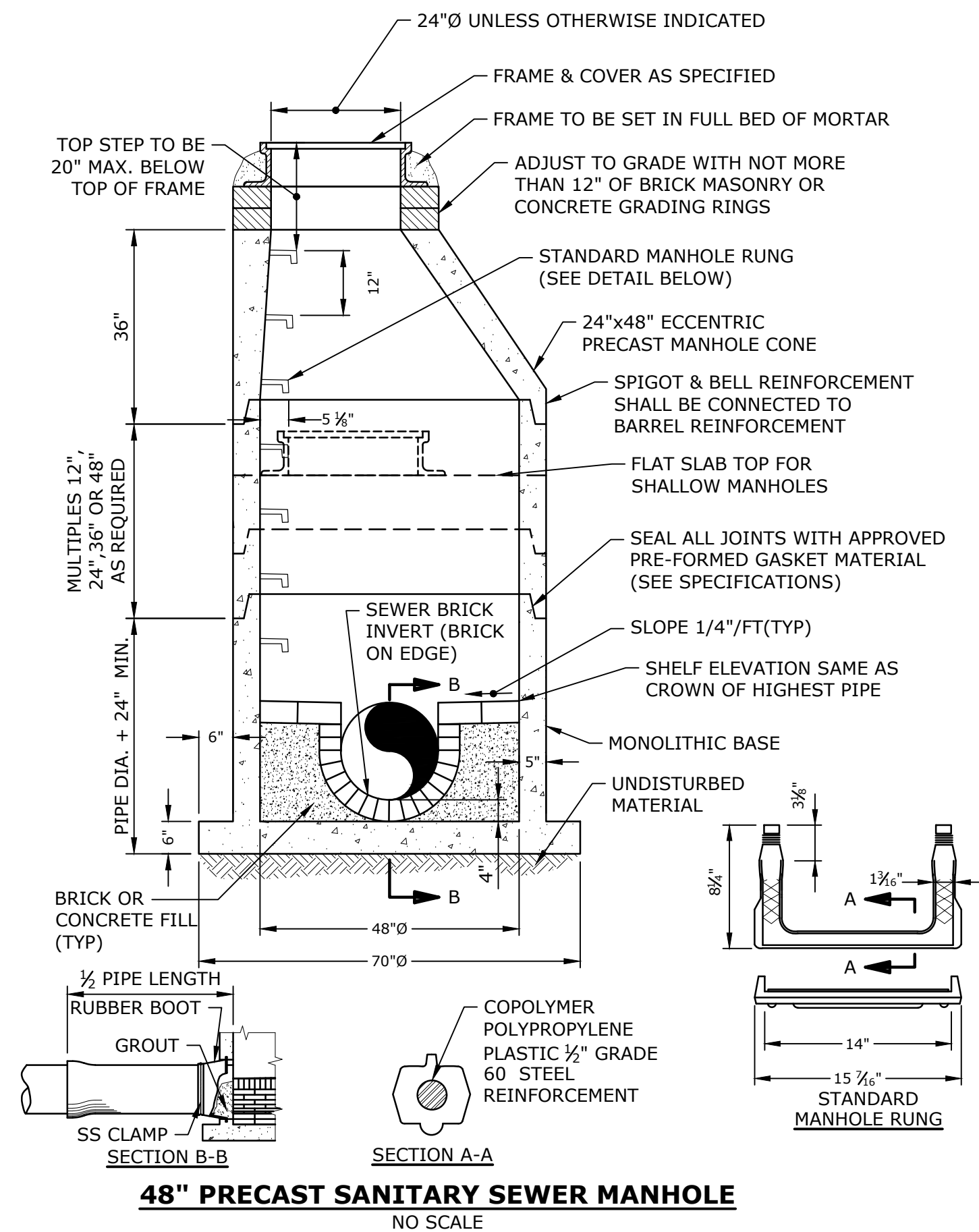
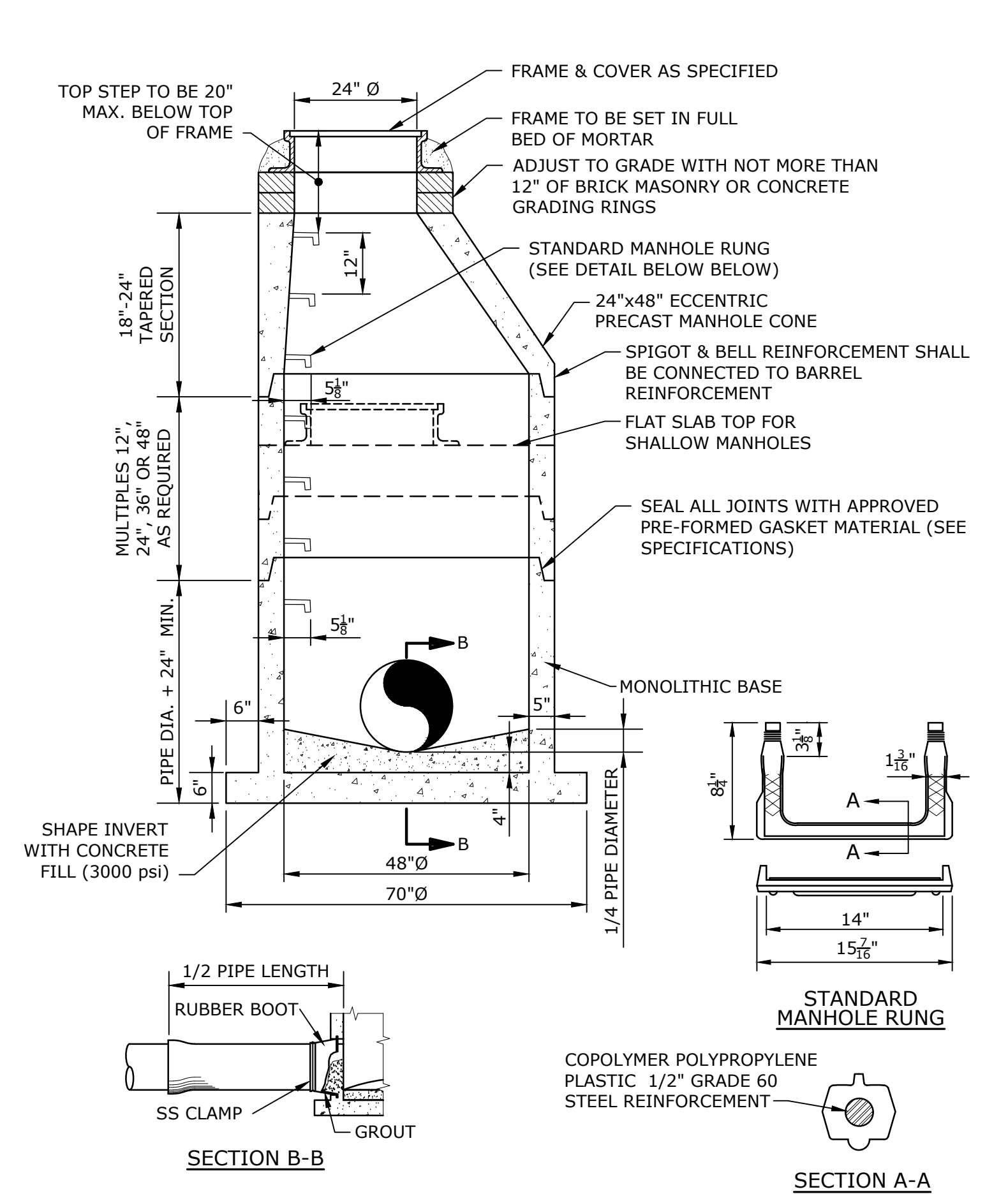
North Adams,
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PROJECT NO:	N0363-059	
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DRAWN BY:	JKM, MLM	
DESIGNED/CHECKED BY:	DSH, OJC	
APPROVED BY:	CSF	

CONSTRUCTION DETAILS - 1

SCALE: AS SHOWN

C-501
SHEET 17 OF 26



Walnut Street Retaining Wall Repairs

City of North
Adams

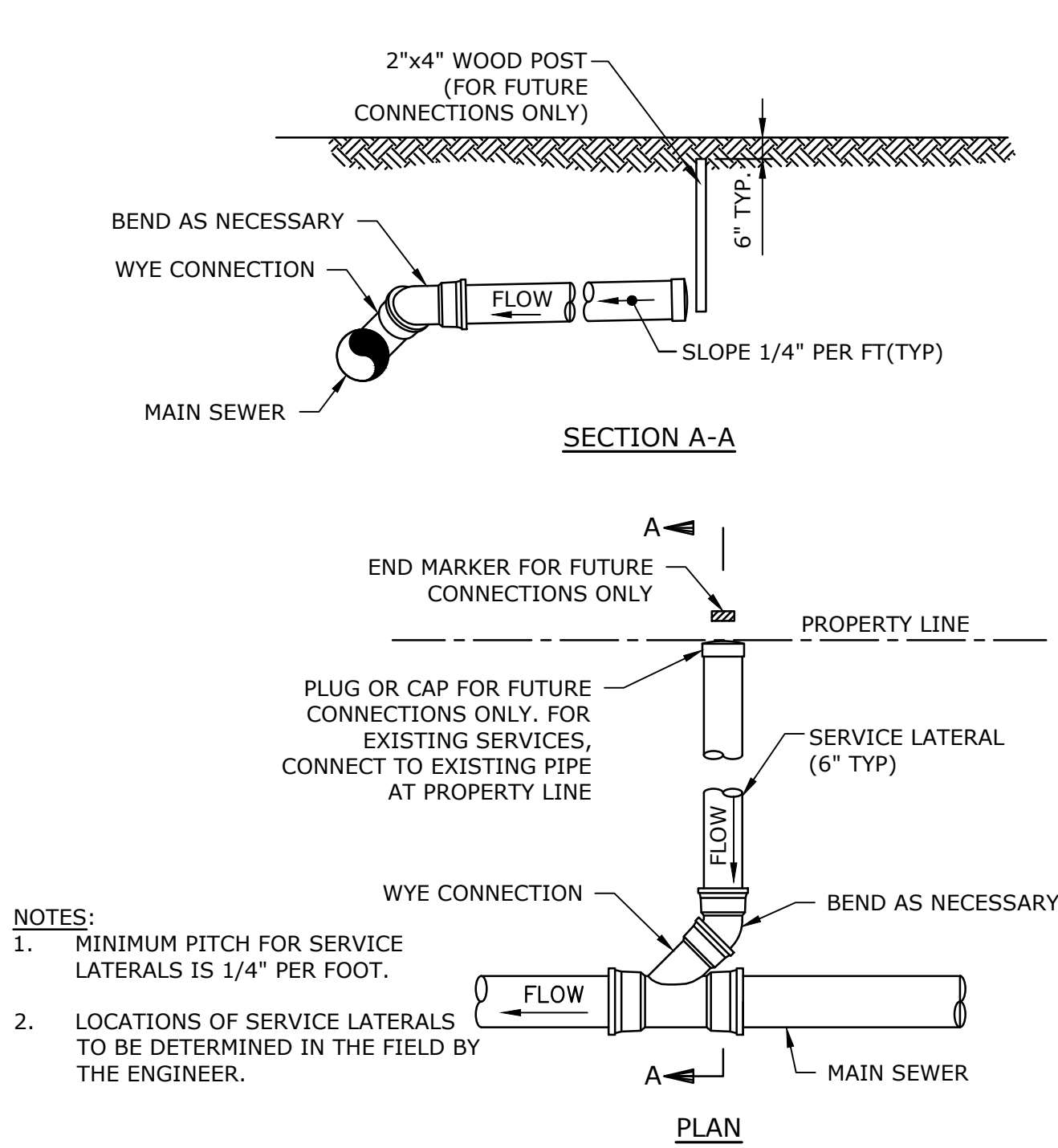
North Adams,
Massachusetts

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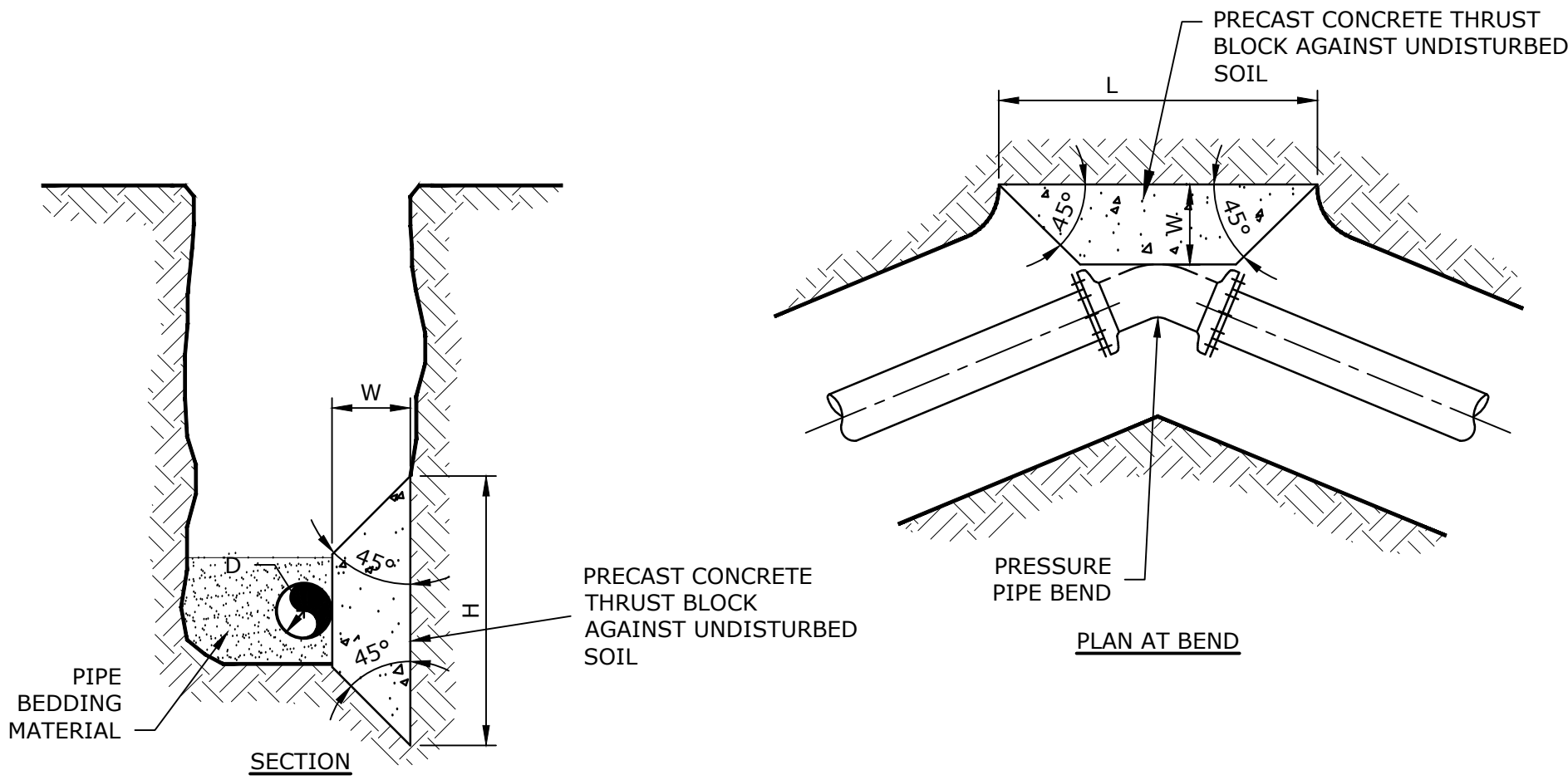
CONSTRUCTION DETAILS - 2

SCALE: AS SHOWN

C-502
SHEET 18 OF 26



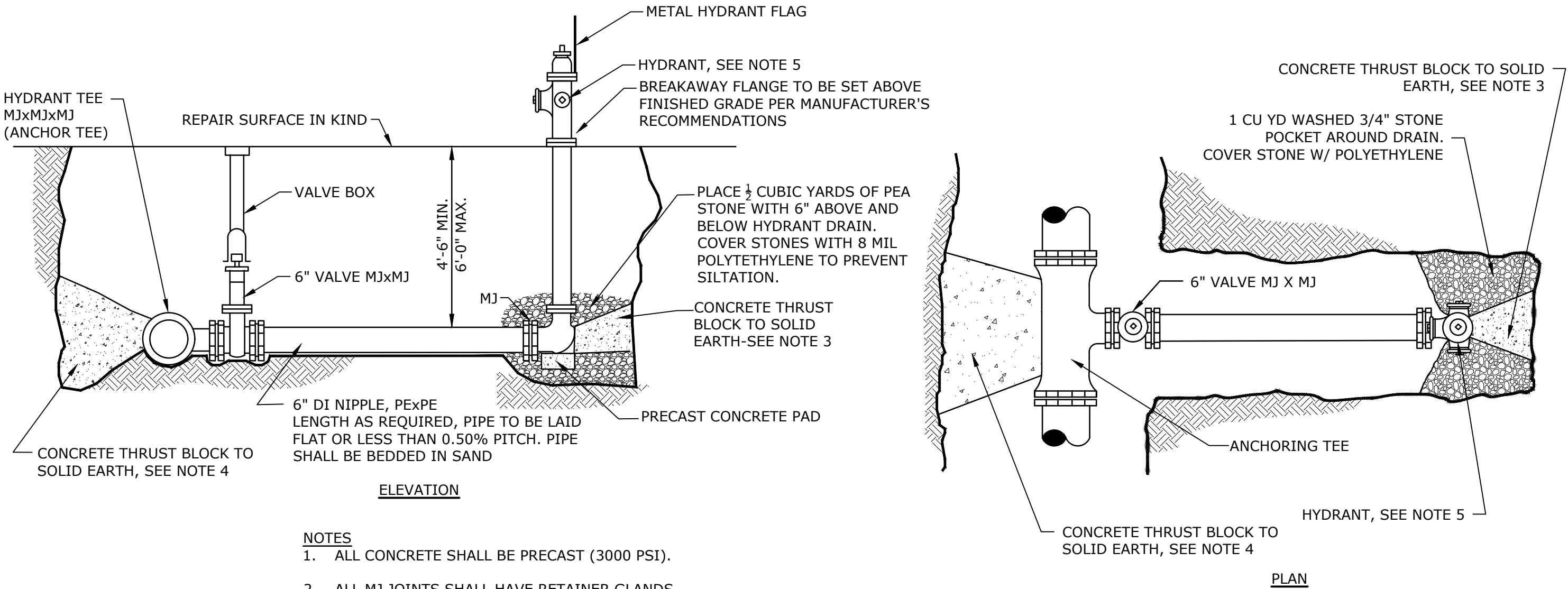
SANITARY SERVICE LATERAL
NO SCALE



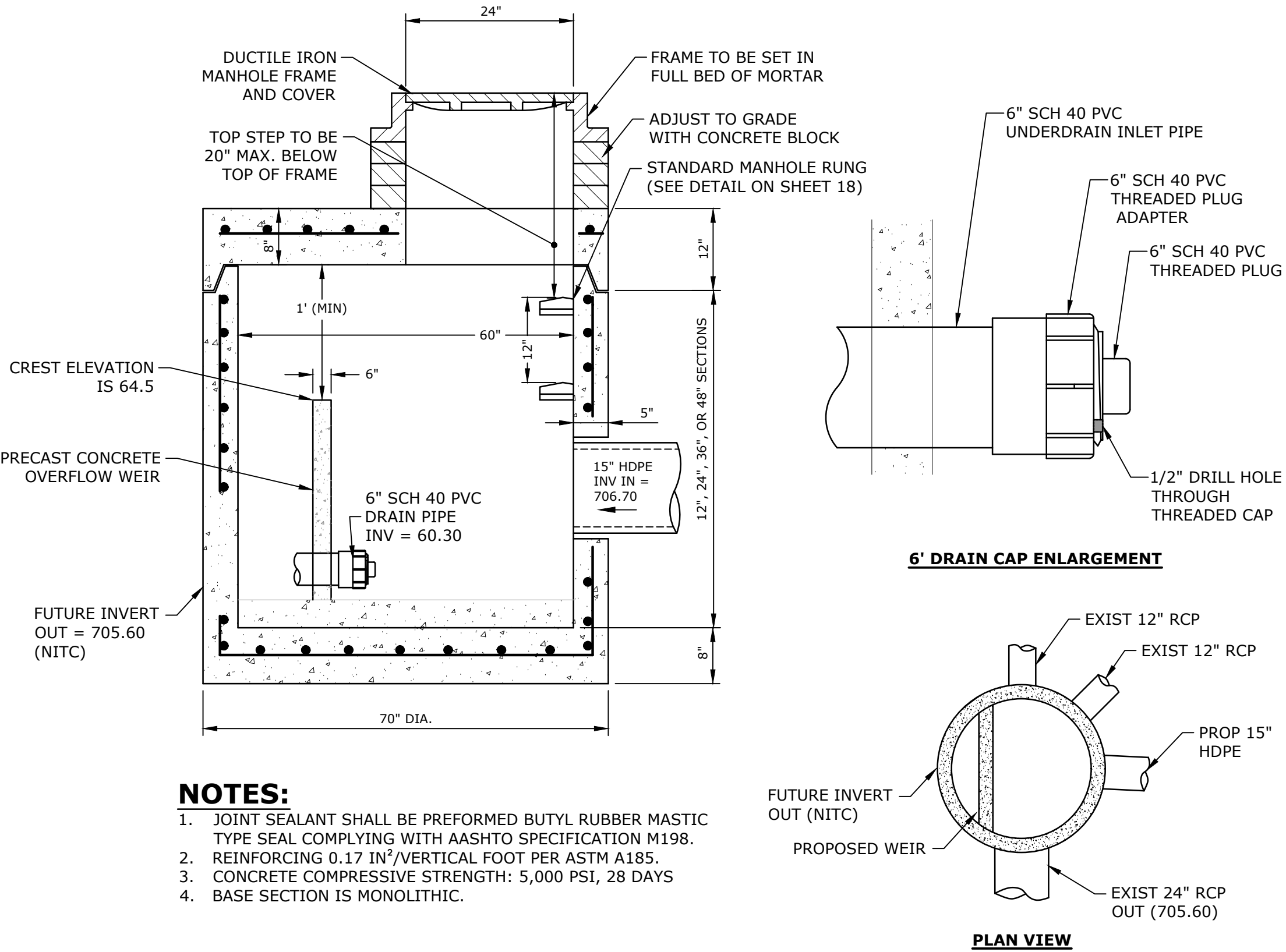
D	CONCRETE THRUST BLOCK											
	45° BEND				11 1/4° OR 22 1/2° BEND				TEE/END			
	BEARING AREA (S.F.)	"L"	"H"	"W"	BEARING AREA (S.F.)	"L"	"H"	"W"	BEARING AREA (S.F.)	"L"	"H"	"W"
6	2.9	2.0	1.4	0.7	1.5	1.5	1.0	0.5	3.7	2.3	1.6	0.8
8	4.9	2.7	1.8	0.9	2.5	1.9	1.3	0.7	6.4	3.1	2.1	1.1
10	7.4	3.4	2.2	1.1	3.8	2.4	1.6	0.8	9.7	3.9	2.5	1.2
12	10.5	4.0	2.6	1.3	5.3	2.8	1.9	1.0	13.7	4.6	3.0	1.5
16	18.2	5.2	3.5	1.8	9.3	3.7	2.5	1.3	23.8	5.9	4.0	2.0
20	28.0	6.5	4.3	2.2	14.3	4.6	3.1	1.6	36.6	7.5	4.9	2.5

- NOTES:
1. DIMENSIONS SHOWN WERE CALCULATED BASED ON A 200 PSF
INTERNAL PIPE PRESSURE AND SOIL BEARING LOADS OF 3000 PSF.
 2. CONCRETE THRUST BLOCKS SHALL BE CONSTRUCTED OF
CONCRETE PLACED AGAINST UNDISTURBED SOIL.
 3. DIMENSIONS L, W, & H MAY BE ADJUSTED TO MEET FIELD
CONDITIONS PROVIDED THE BEARING AREA REMAINS UNCHANGED.
 4. THE HEIGHT OF THE BLOCK (H) SHALL BE LESS THAN OR EQUAL TO
HALF THE TRENCH DEPTH.

**CONCRETE THRUST BLOCK
FOR HORIZONTAL BENDS AND TEES**
NO SCALE



HYDRANT INSTALLATION
NO SCALE



SPECIAL MANHOLE
NO SCALE

SIZE (IN.)	FITTING	MINIMUM RESTRAINED LENGTH, FT. ⁽¹⁾
6"	DEAD END/VALVE	50
8"	8"x4" REDUCER	47
8"	8"x6" REDUCER	27
8"	45° BEND	10
8"	22 1/2° BEND	5
8"	11 1/4° BEND	3
8"	DEAD END/VALVE	65
8"	8"x8" TEE	65
8"	8"x6" TEE	50

MINIMUM RESTRAINED LENGTHS FOR DI PIPE

- NOTES:
1. MINIMUM RESTRAINED LENGTH IS BASED ON DIPRA RESTRAINED
LENGTH CALCULATOR, LATEST EDITION.
 2. THE FOLLOWING CONDITIONS APPLY:
-SOIL TYPE: SAND SILT
-MAX. PRESSURE: 200 psi
-TRENCH TYPE: 4
-BURIED DEPTH: 5'
-1.5 SAFETY FACTOR
 3. THE MINIMUM RESTRAINED LENGTHS SHOWN ARE SUBJECT TO
RECALCULATION BASED ON FIELD CONDITIONS.



Walnut Street Retaining Wall Repairs

City of North Adams

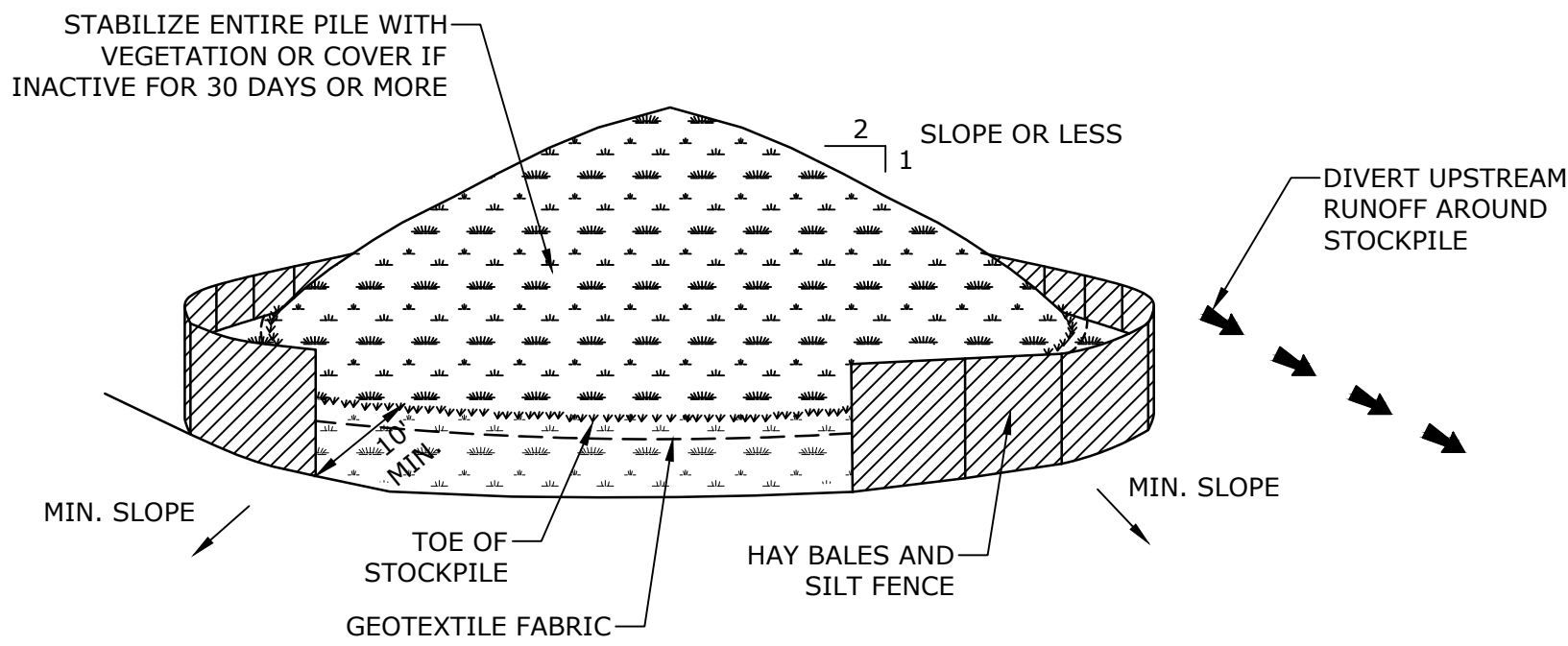
North Adams, Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO:		N0363-059
DATE:		JULY 2026
FILE:		N0363-059 Misc. Civil Details.dwg
DRAWN BY:		JKM, MLM
DESIGNED/CHECKED BY:		DSH, OJC
APPROVED BY:		CSF

CONSTRUCTION DETAILS - 4

SCALE: AS SHOWN

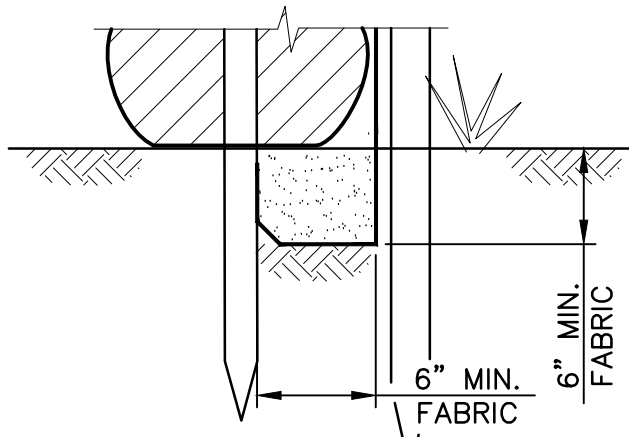
C-504
SHEET 20 OF 26



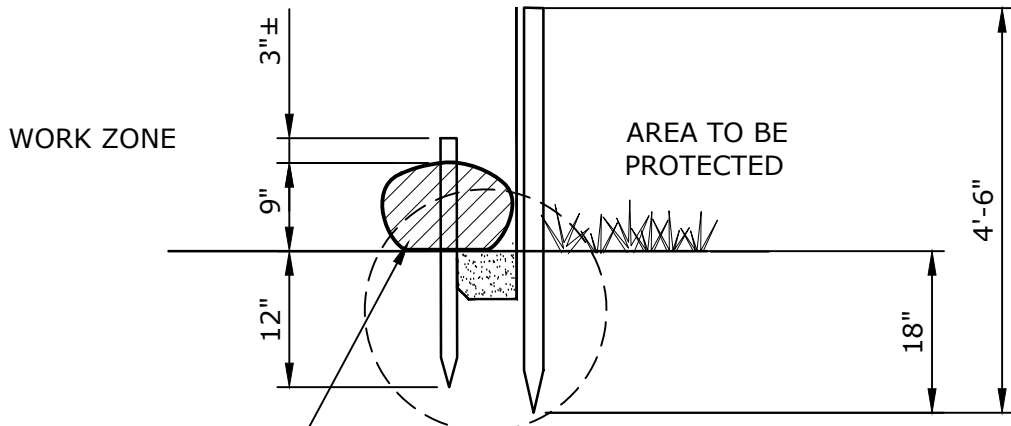
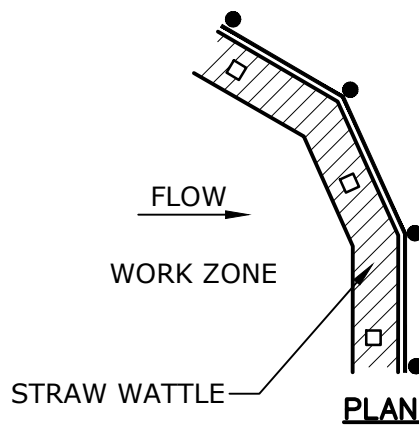
INSTALLATION NOTES:

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2H:1V.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING AND HAYBALES, THEN STABILIZED WITH VEGETATION OR COVERED.

SOIL STOCKPILING
NO SCALE



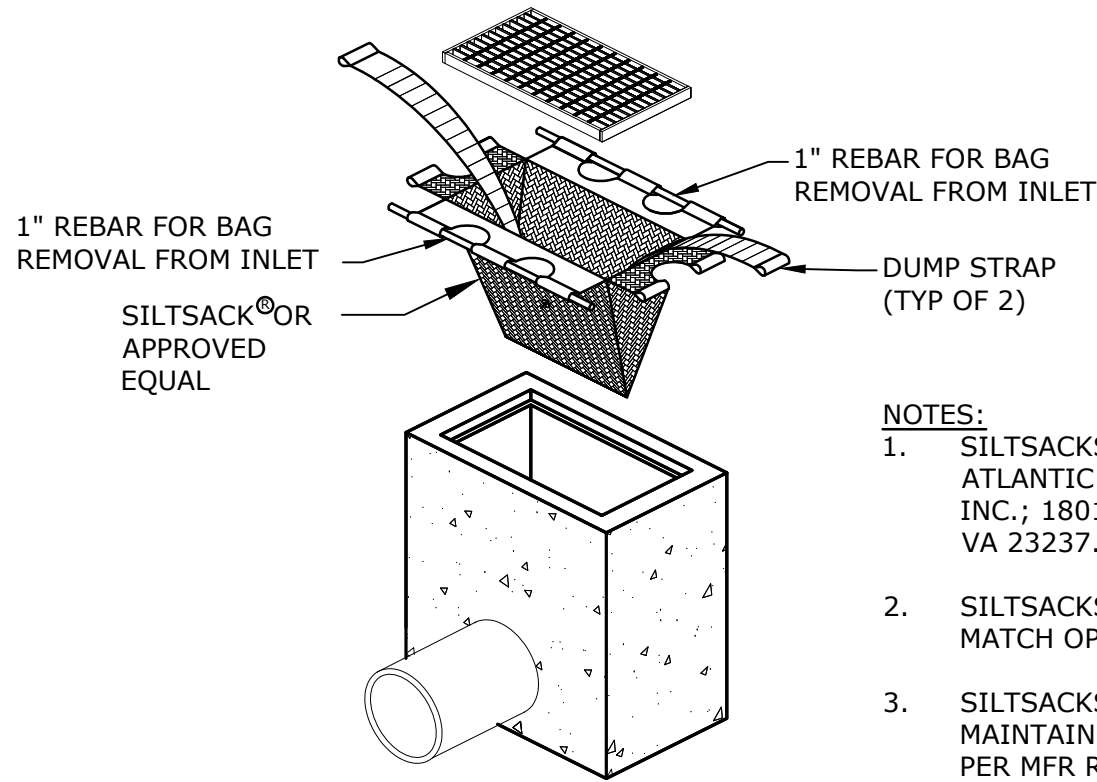
FABRIC TOE-IN DETAIL



SECTION

TEMPORARY EROSION CONTROL BARRIER
NO SCALE

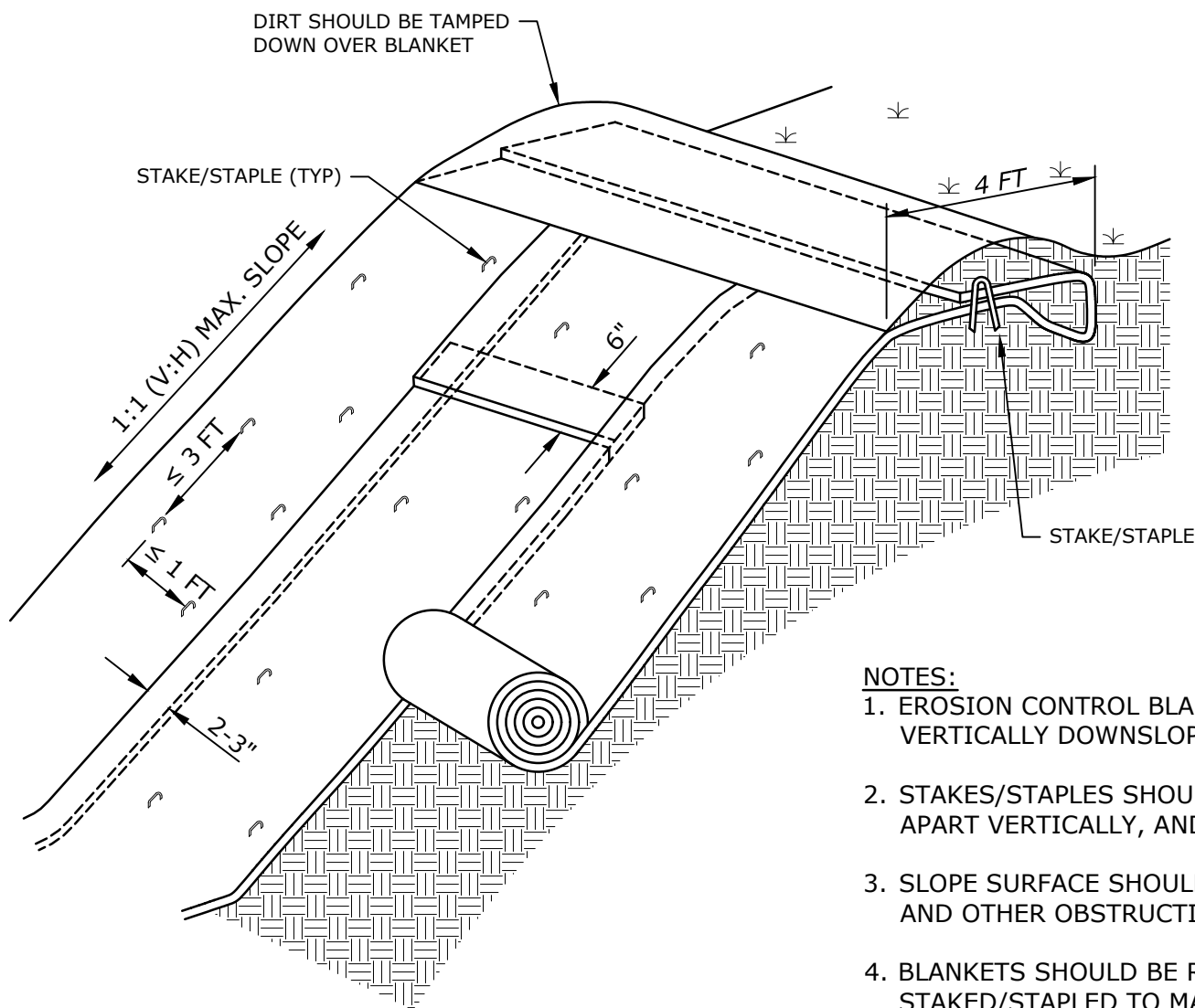
*-STAKES WERE SPACED AT 4'-5' O.C.
STAKES WERE STAGGERED BETWEEN STRAW WATTLE AND SILT FENCE



NOTES:

1. SILTSACKS MANUFACTURED BY ATLANTIC CONSTRUCTION FABRICS, INC.; 1801-A WILLIS ROAD; RICHMOND, VA 23237.
2. SILTSACKS FOR CATCH BASINS WILL MATCH OPENING LENGTH AS REQUIRED.
3. SILTSACKS SHALL BE CLEANED OUT AND MAINTAINED IN GOOD WORKING ORDER PER MFR RECOMMENDATIONS.

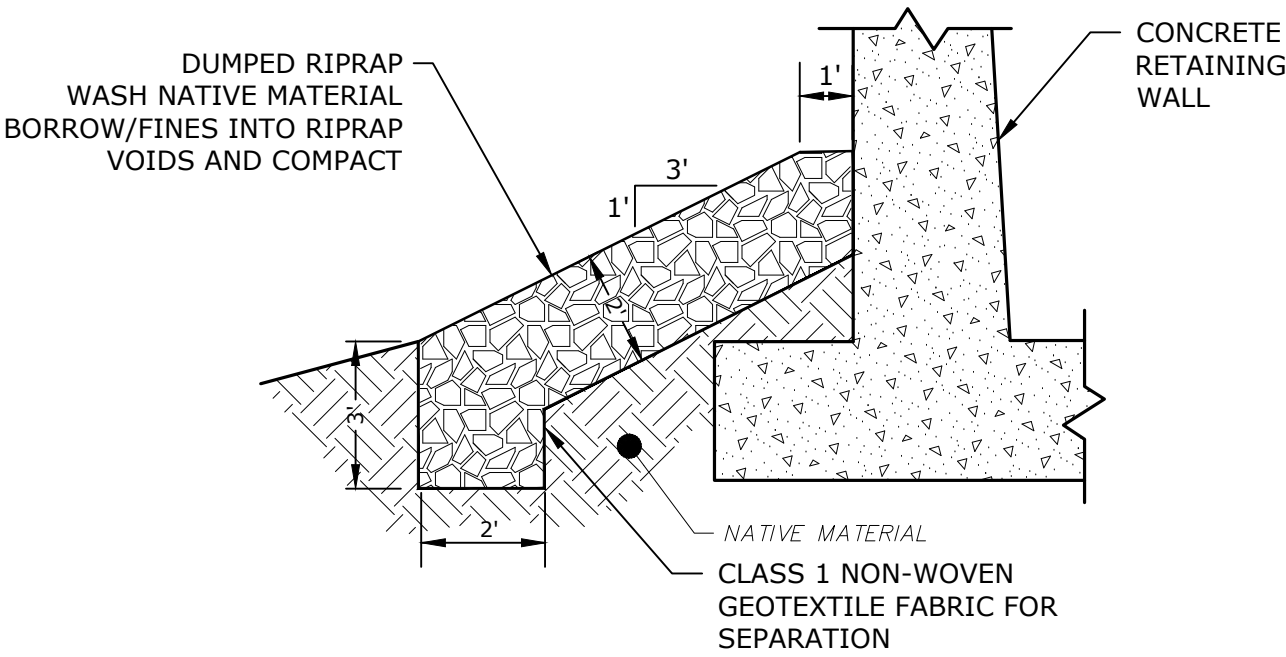
SILTSACK® EROSION CONTROL
INLET PROTECTION BARRIER
PAVED AREAS
NO SCALE



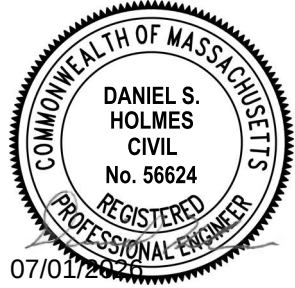
NOTES:

1. EROSION CONTROL BLANKET SHOULD BE INSTALLED VERTICALLY DOWNSLOPE.
2. STAKES/STAPLES SHOULD BE PLACED NO MORE THAN 3 FT APART VERTICALLY, AND 1 FT APART HORIZONTALLY.
3. SLOPE SURFACE SHOULD BE FREE OF STICKS, ROCKS, AND OTHER OBSTRUCTIONS.
4. BLANKETS SHOULD BE ROLLED OUT LOOSELY AND STAKED/STAPLED TO MAINTAIN DIRECT SOIL CONTACT. DO NOT STRETCH THE BLANKETS.

EROSION CONTROL BLANKET
NO SCALE



RIPRAP SLOPE STABILIZATION
TYPICAL SECTION
NO SCALE



Walnut Street Retaining Wall Repairs

City of North Adams

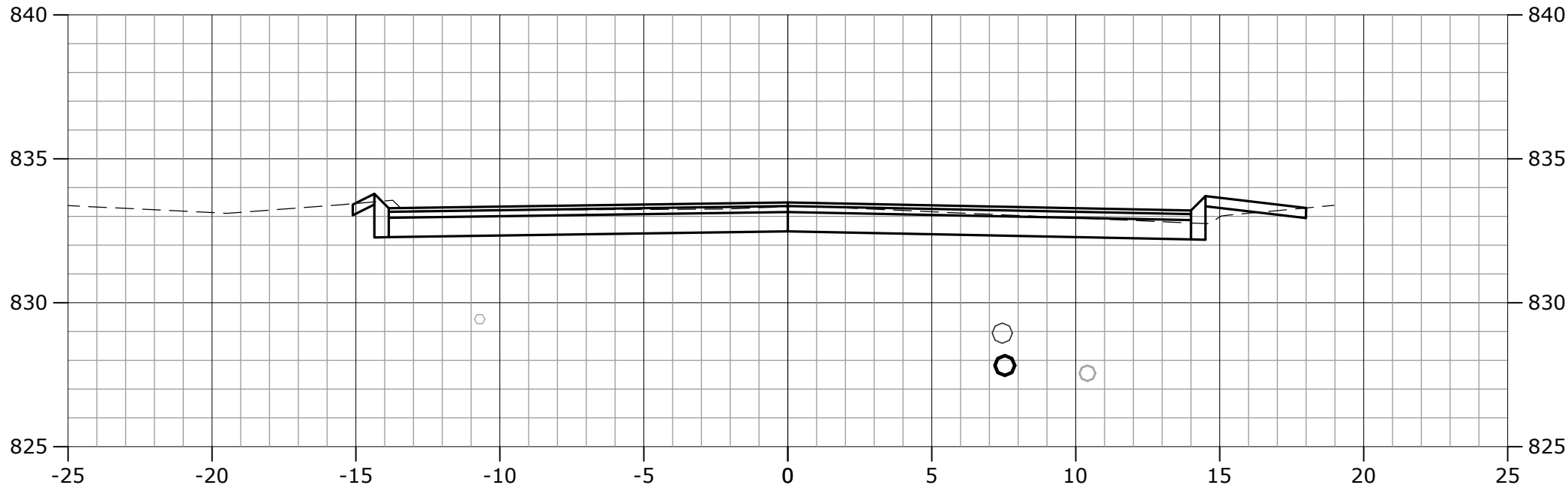
North Adams, Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO:		N0363-059
DATE:		JULY 2026
FILE:		N0363-059 X Sections.dwg
DRAWN BY:		JKM, MLM
DESIGNED/CHECKED BY:		DSH, OJC
APPROVED BY:		CSF

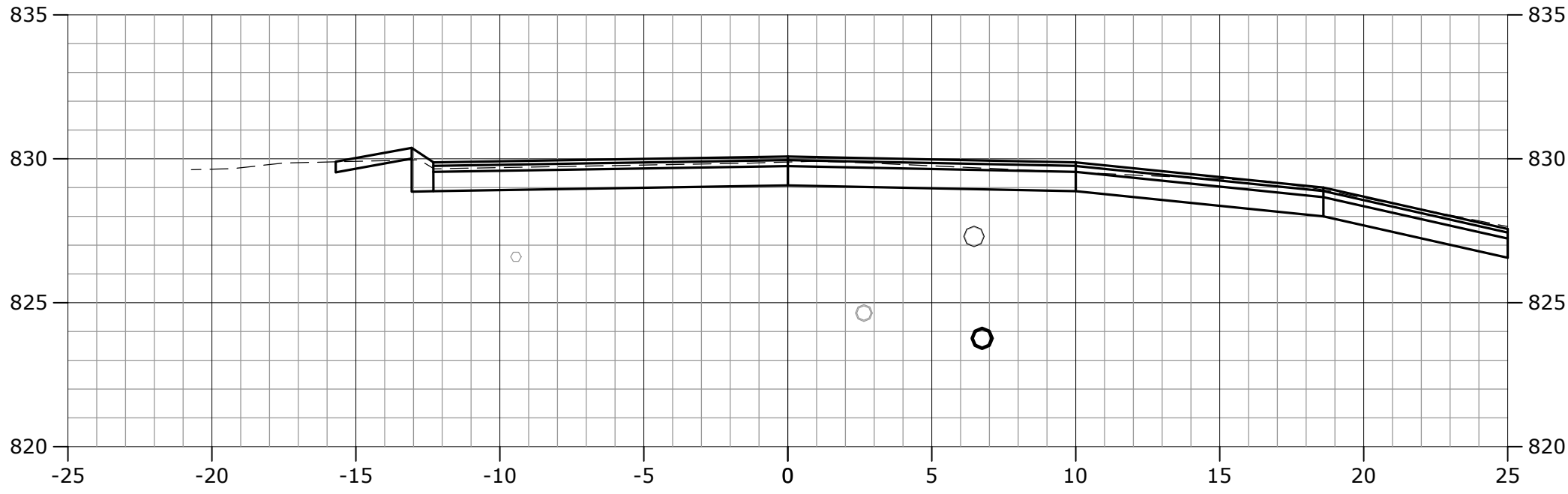
CROSS SECTIONS - 1

SCALE: 1" = 5'

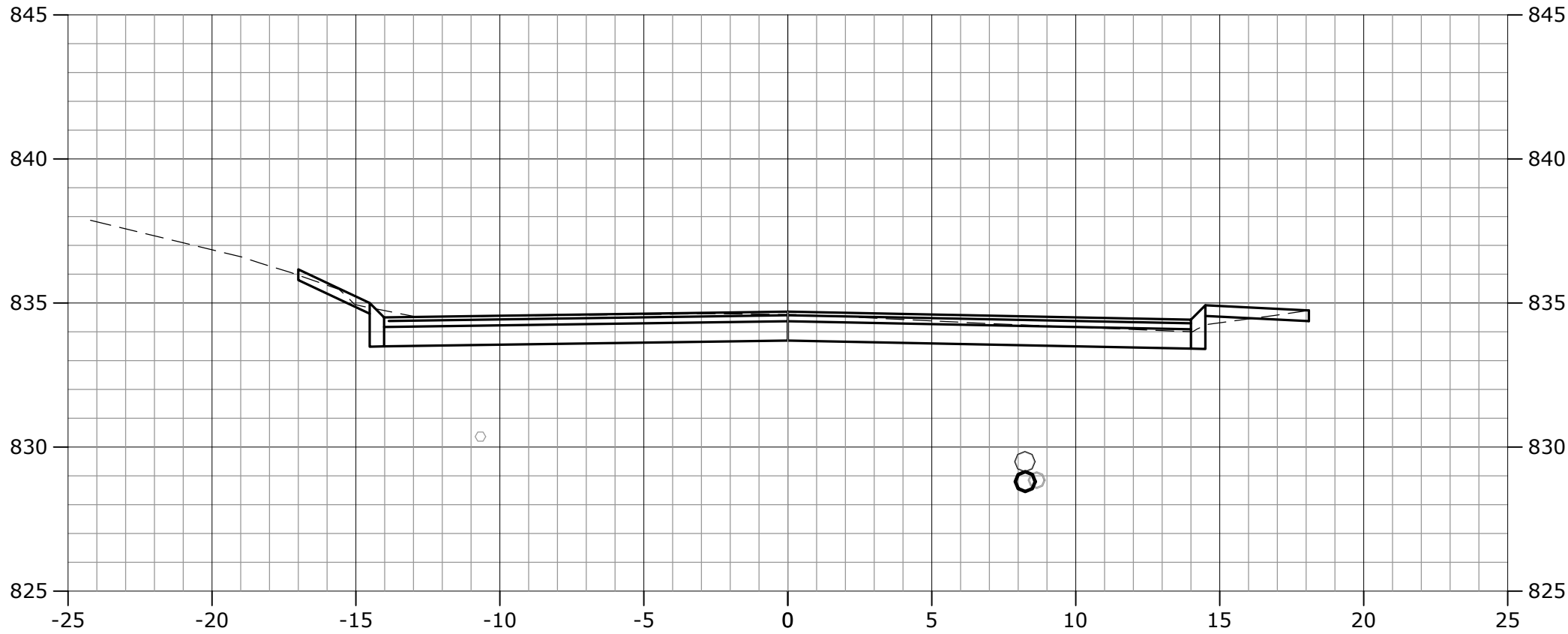
C-601
SHEET 21 OF 26



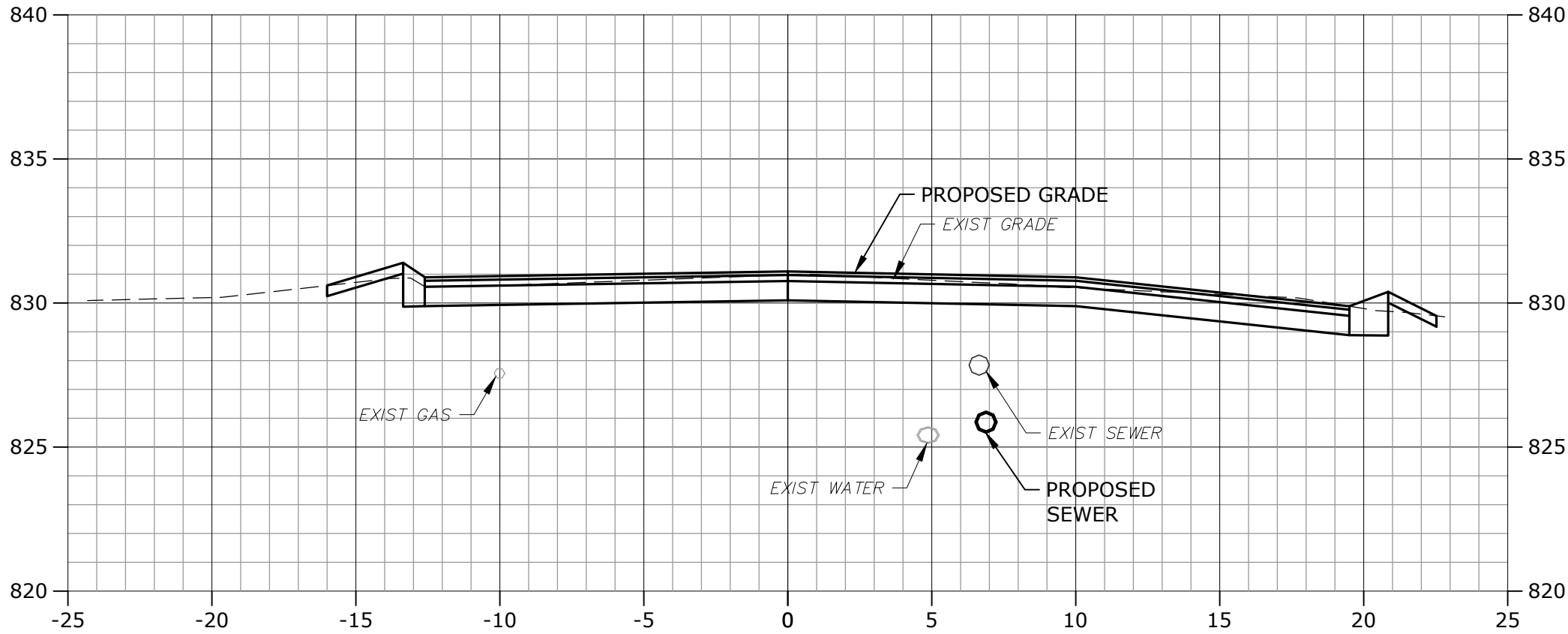
STATION: 0+70



STATION: 1+00



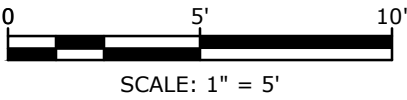
STATION: 0+60



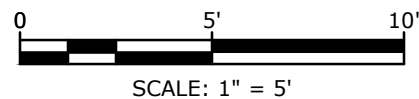
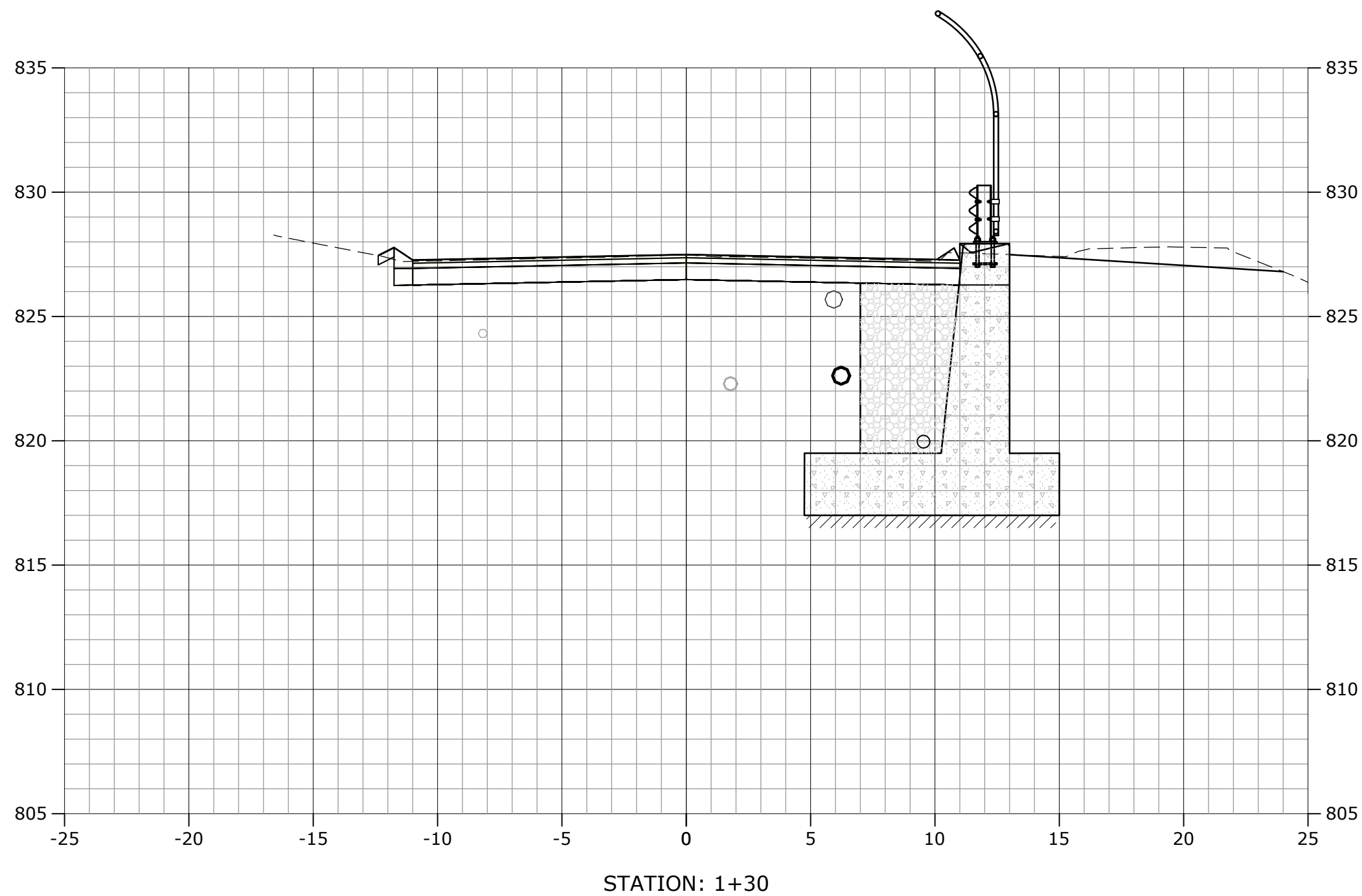
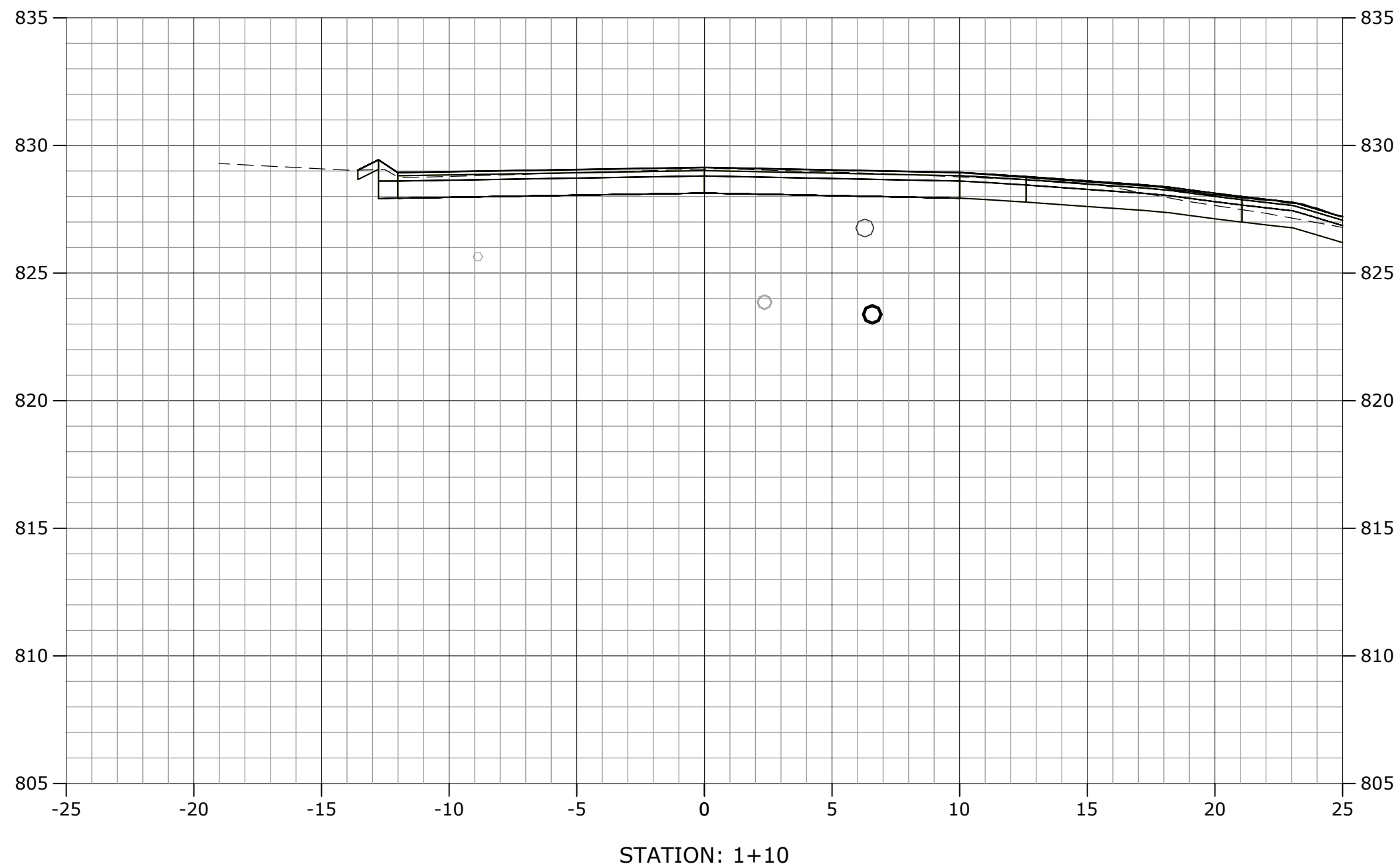
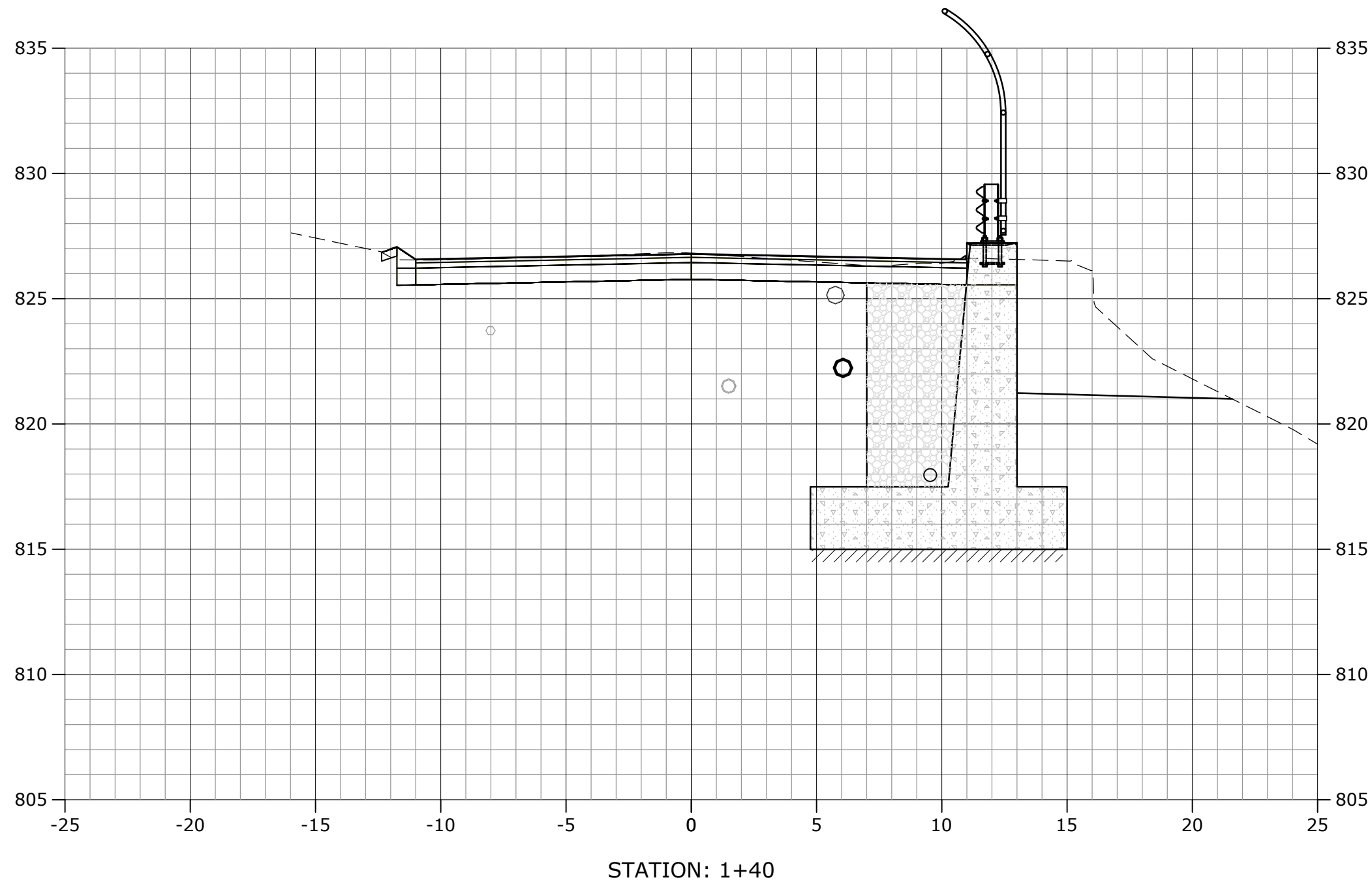
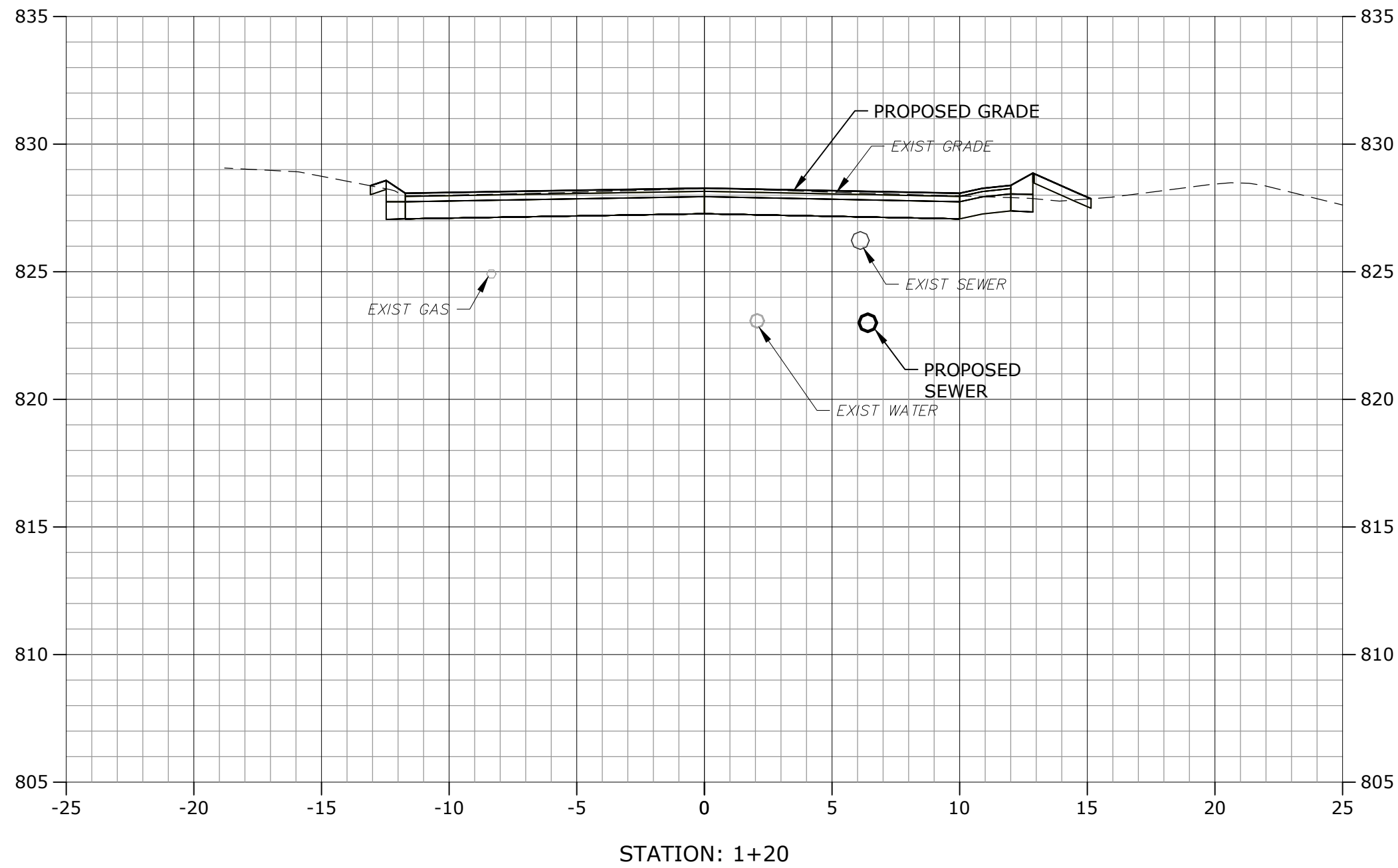
STATION: 0+90



STATION: 0+80



Last Saved: 5/28/2026
Plotted On: Jun 29, 2026-3:34pm By: MWMottoliese
Tighe & Bond\J\N0363\059 Walnut Street Retaining Wall Repairs\Drawings Figures\AutoCAD\Sheet\N0363-059 X Sections.dwg



Walnut Street Retaining Wall Repairs

City of North Adams

North Adams, Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO:	N0363-059	
DATE:	JULY 2026	
FILE:	N0363-059 X Sections.dwg	
DRAWN BY:	JKM, MLM	
DESIGNED/CHECKED BY:	DSH, OJC	
APPROVED BY:	CSF	

CROSS SECTIONS - 2

SCALE: 1" = 5'

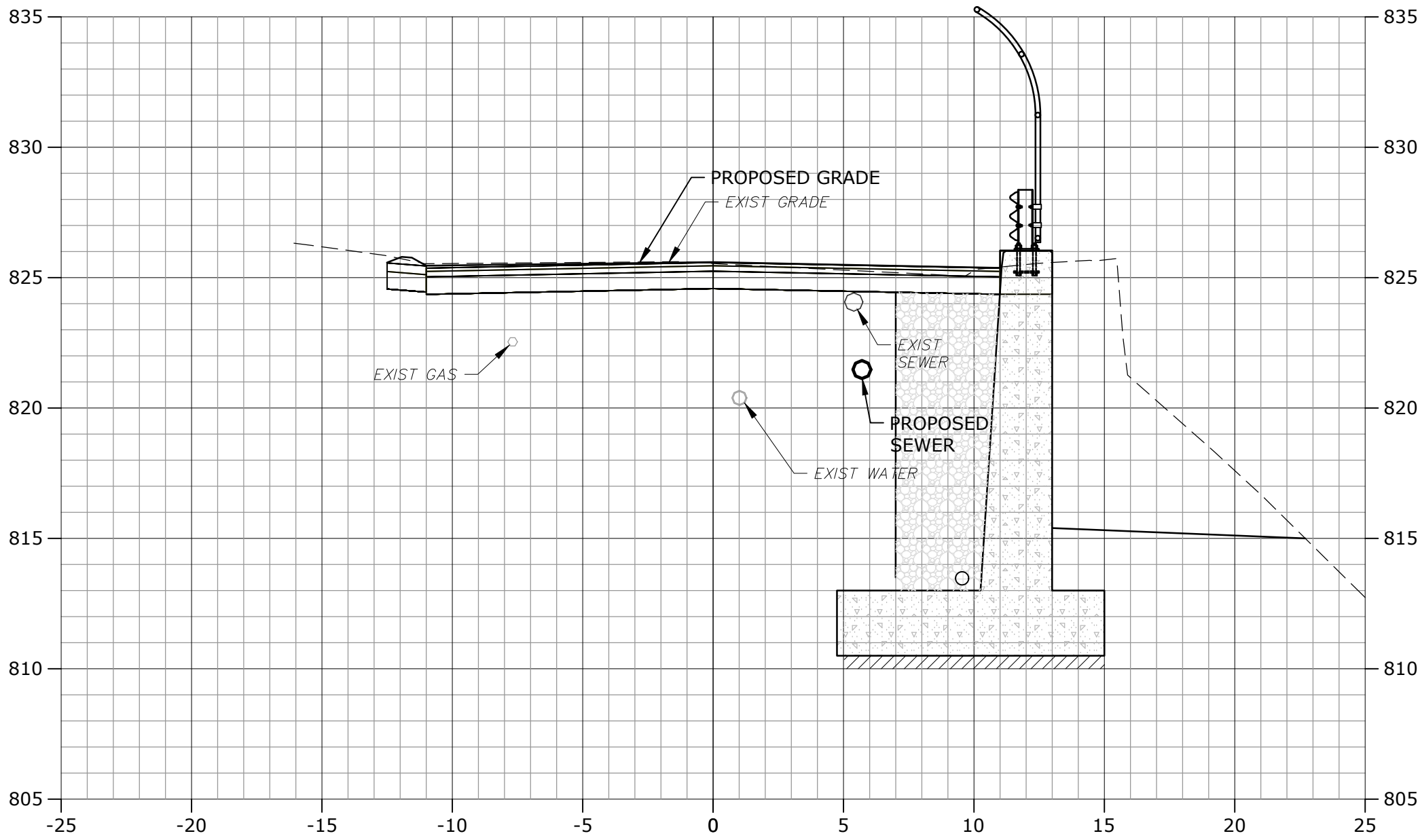
C-602
SHEET 22 OF 26

North Adams,
Massachusetts

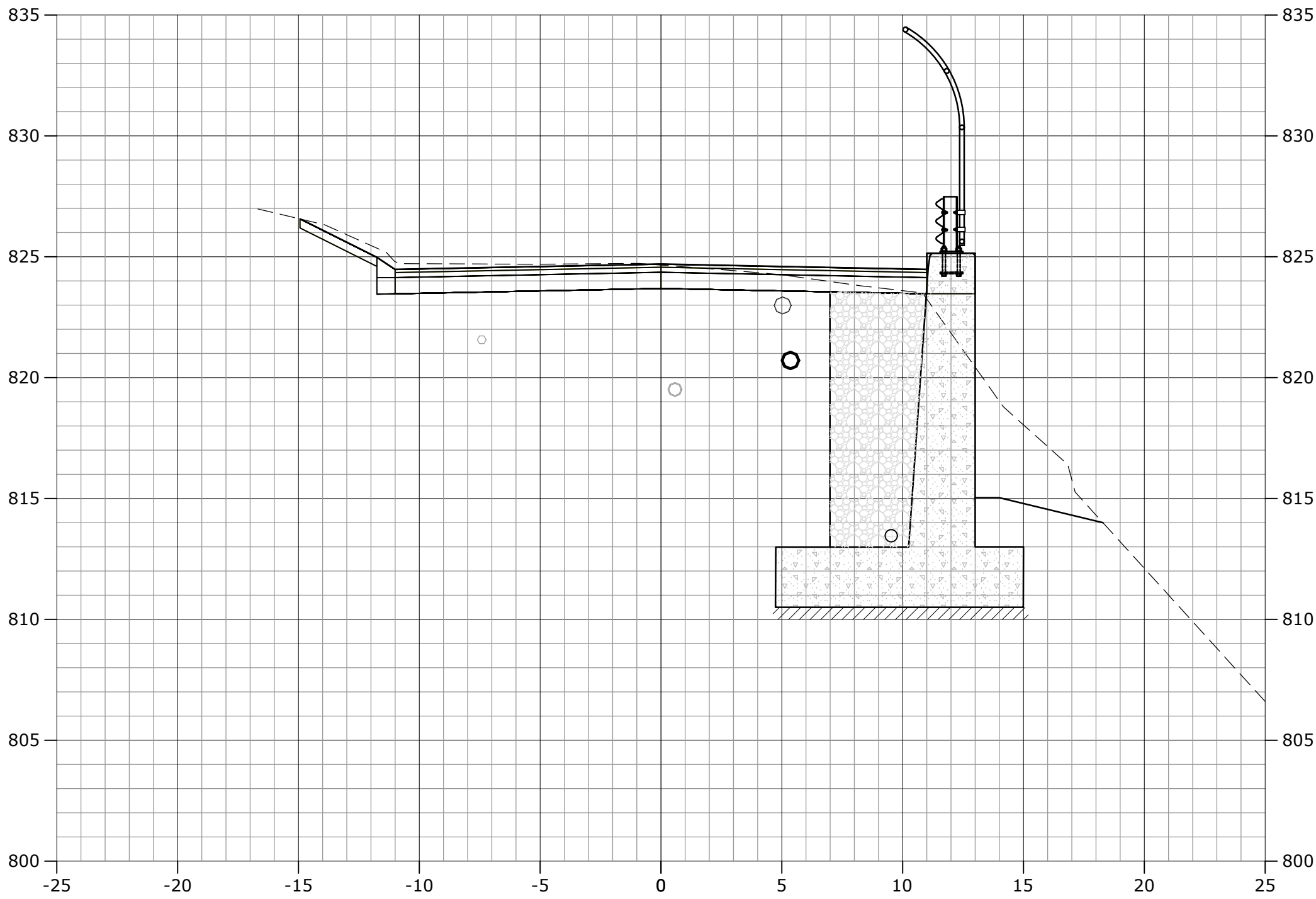
MARK	DATE	DESCRIPTION
PROJECT NO:		N0363-059
DATE:		JULY 2026
FILE:		N0363-059 X Sections.dwg
DRAWN BY:		JKM, MLM
DESIGNED/CHECKED BY:		DSH, OJC
APPROVED BY:		CSF

SCALE: 1" = 5'

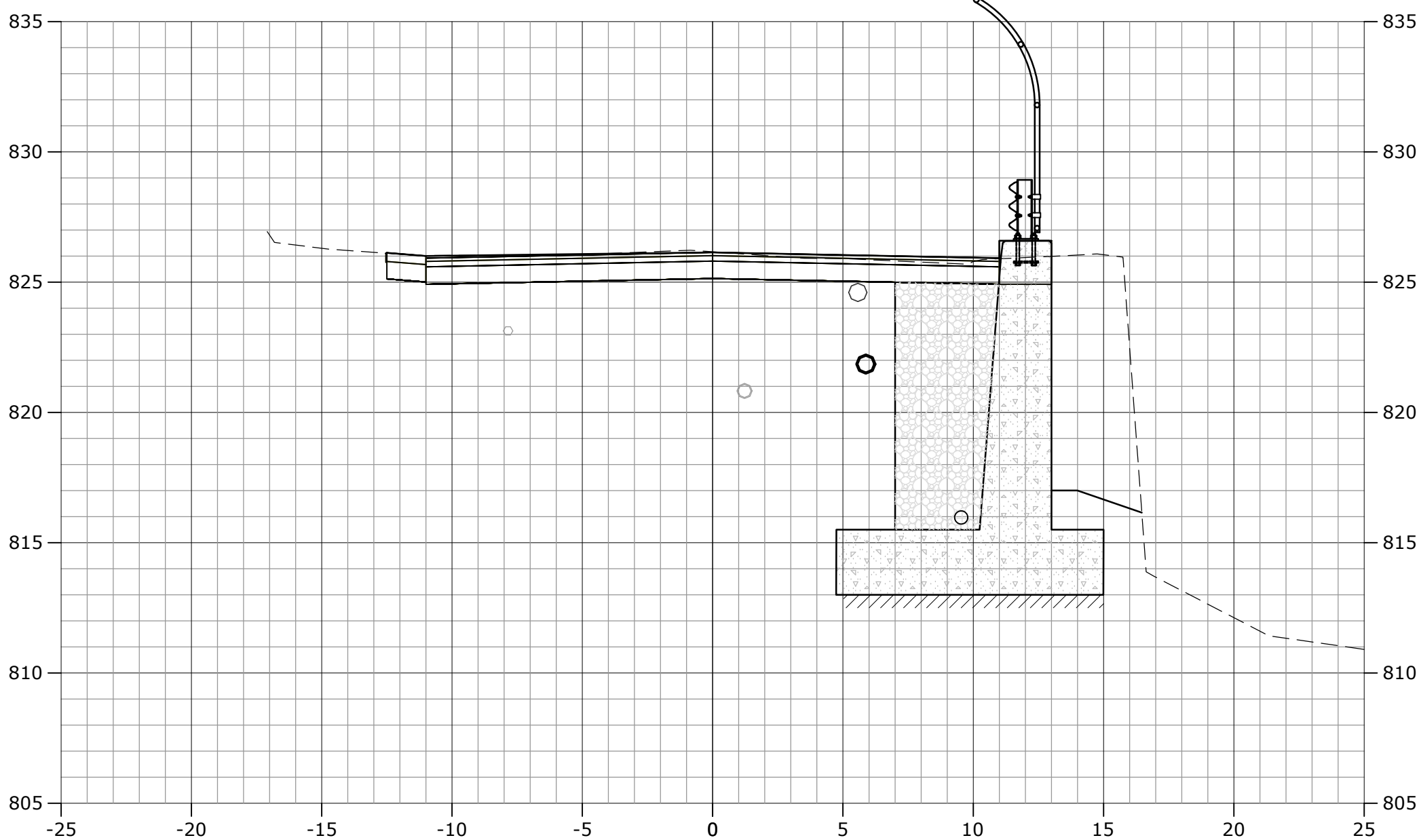
C-603
SHEET 23 OF 26



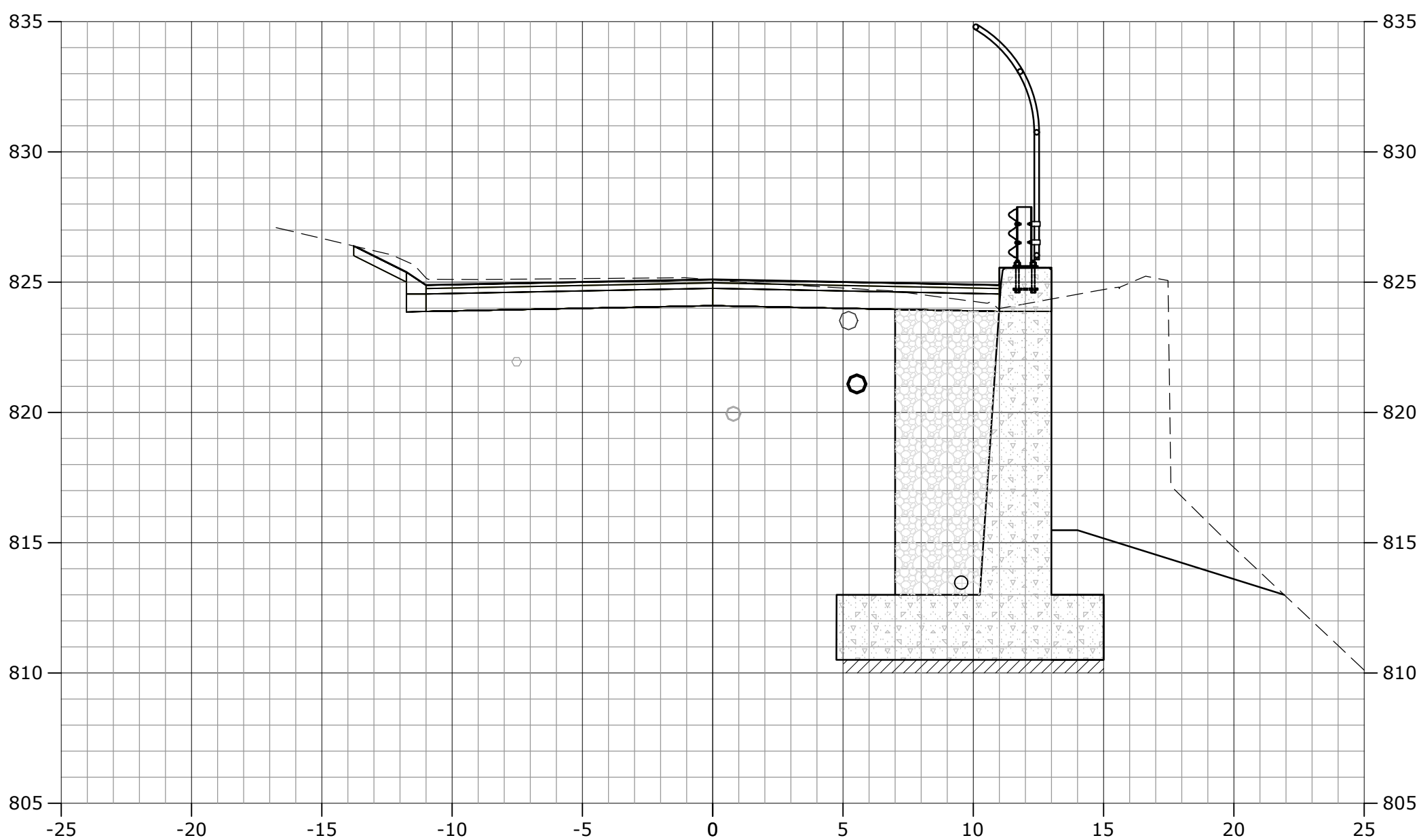
STATION: 1+60



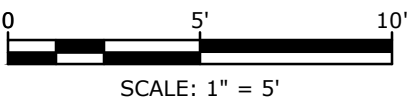
STATION: 1+80



STATION: 1+50



STATION: 1+70

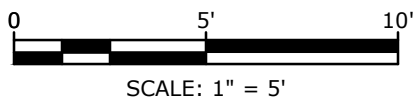
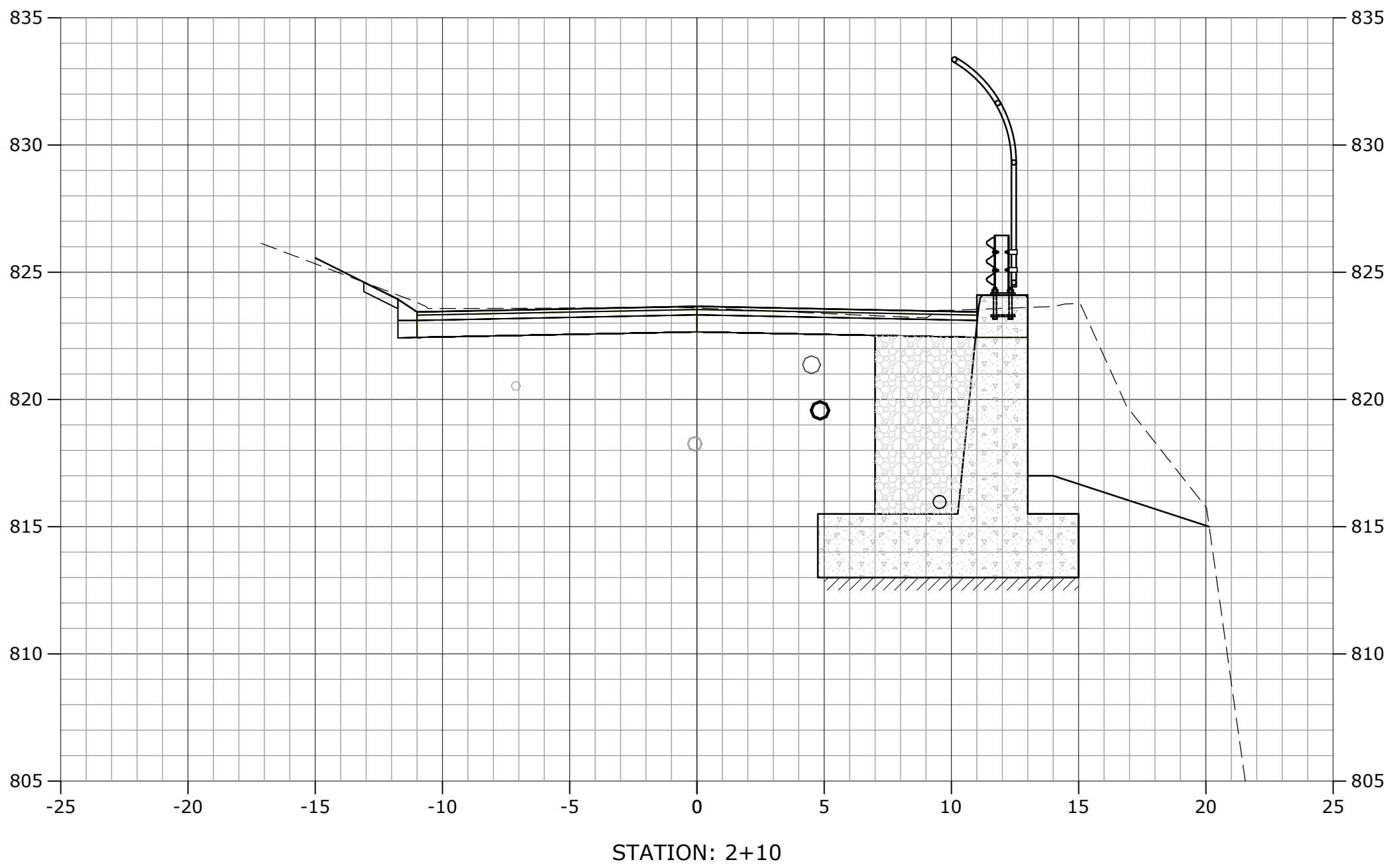
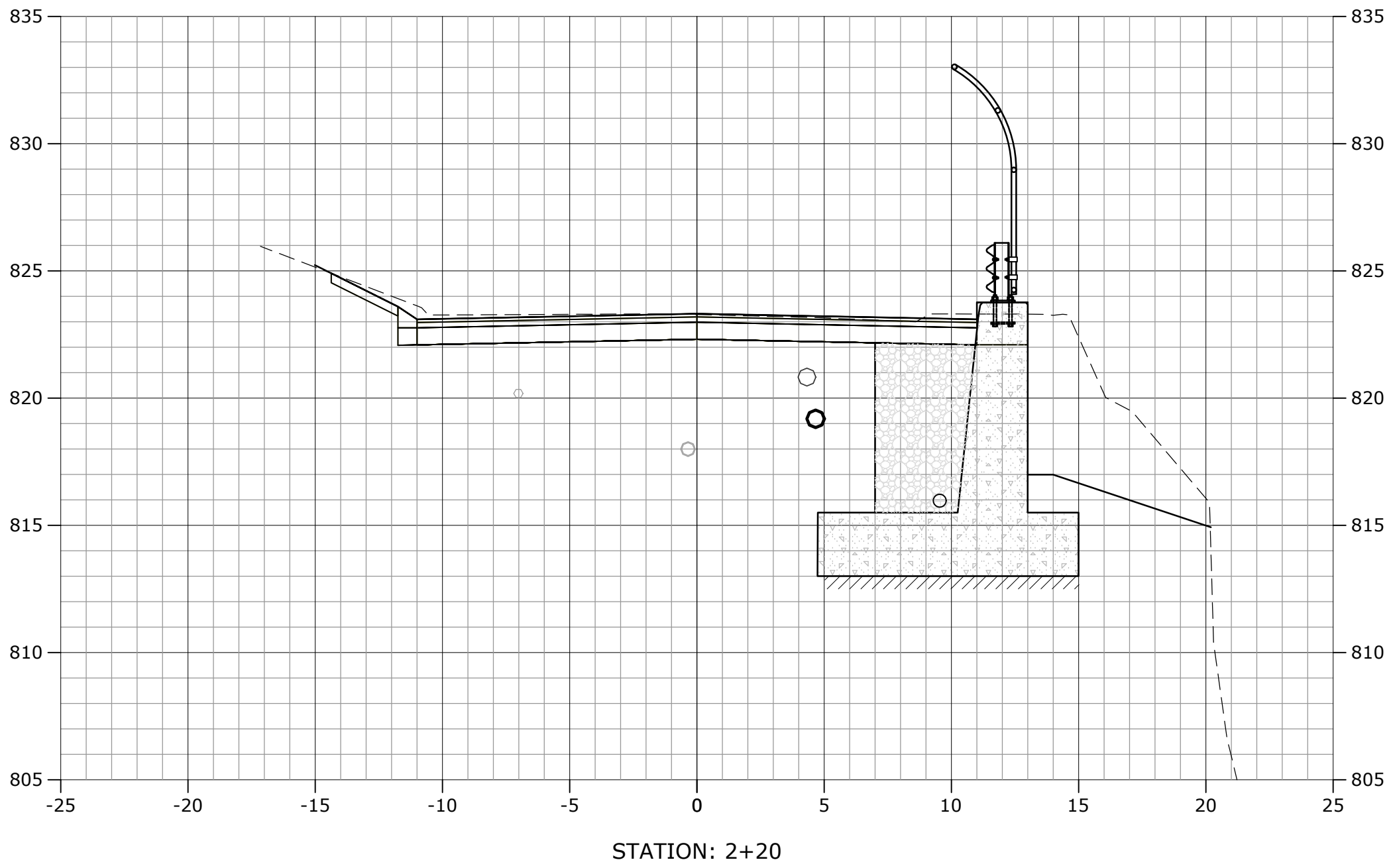


North Adams, Massachusetts

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		PROJECT NO: N0363-059
		DATE: JULY 2026
		FILE: N0363-059 X Sections.dwg
		DRAWN BY: JKM, MLM
		DESIGNED/CHECKED BY: DSH, OJC
		APPROVED BY: CSF

SCALE: 1" = 5'

C-604
SHEET 24 OF 26





Walnut Street
Retaining Wall
Repairs

City of North
Adams

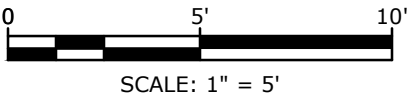
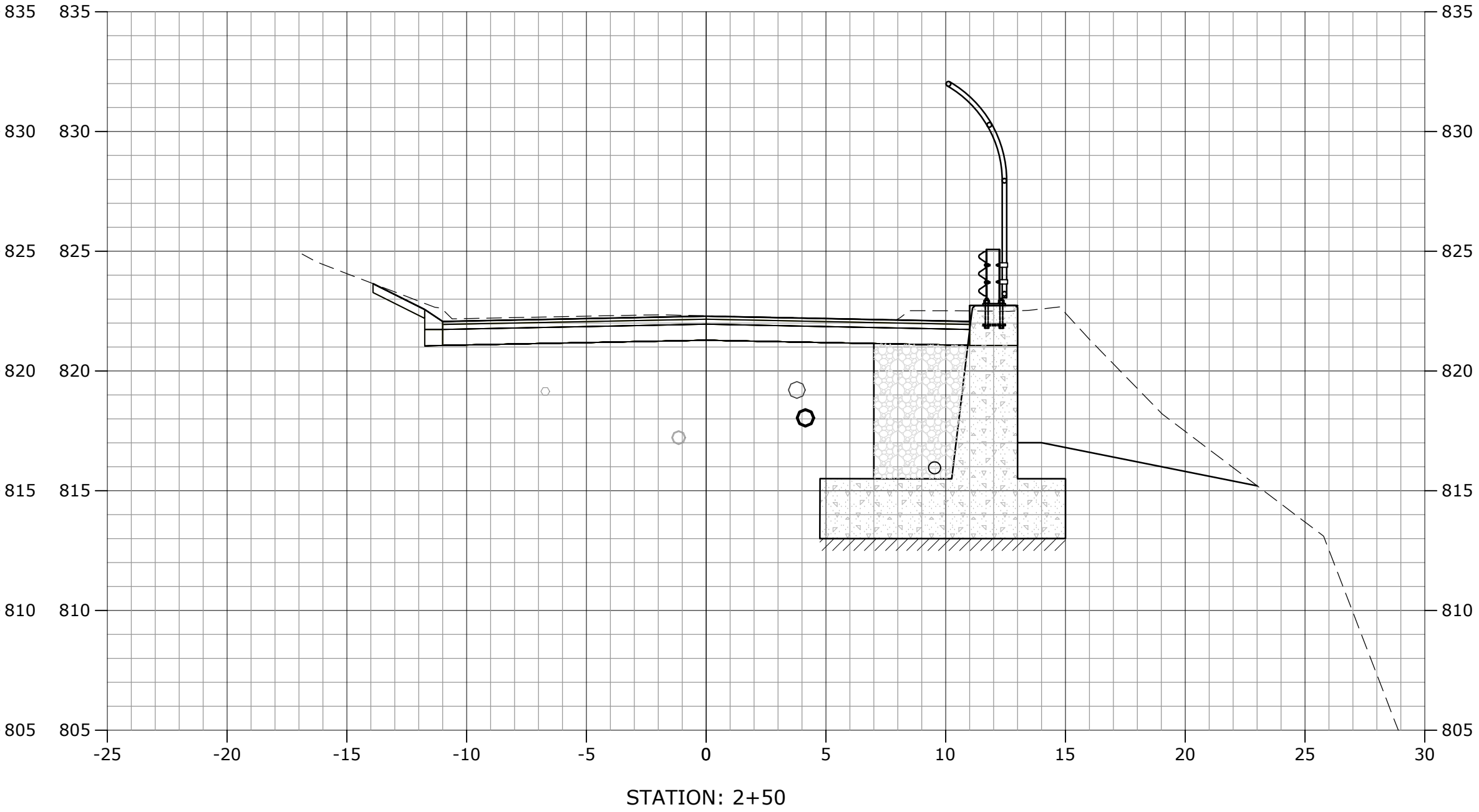
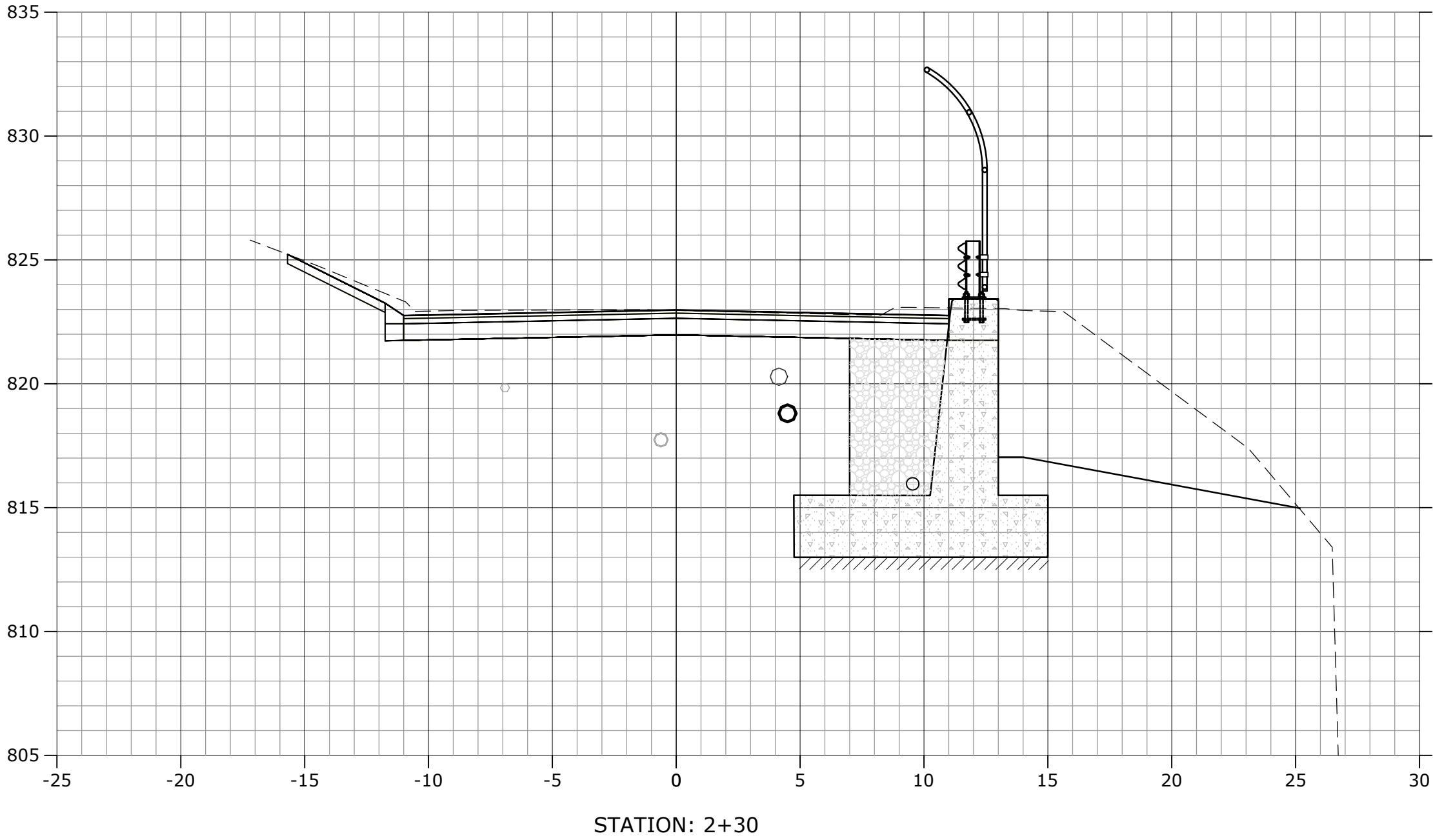
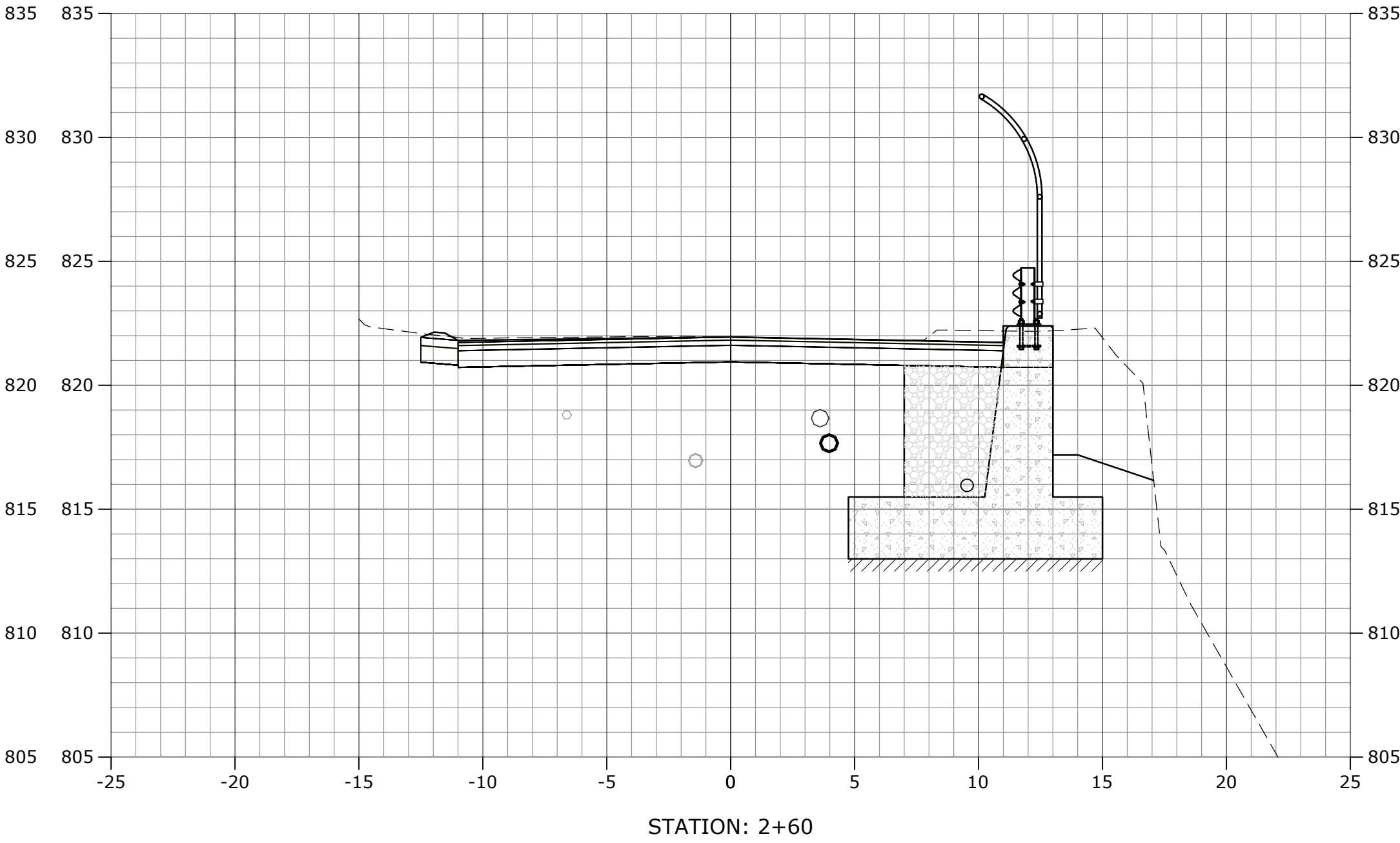
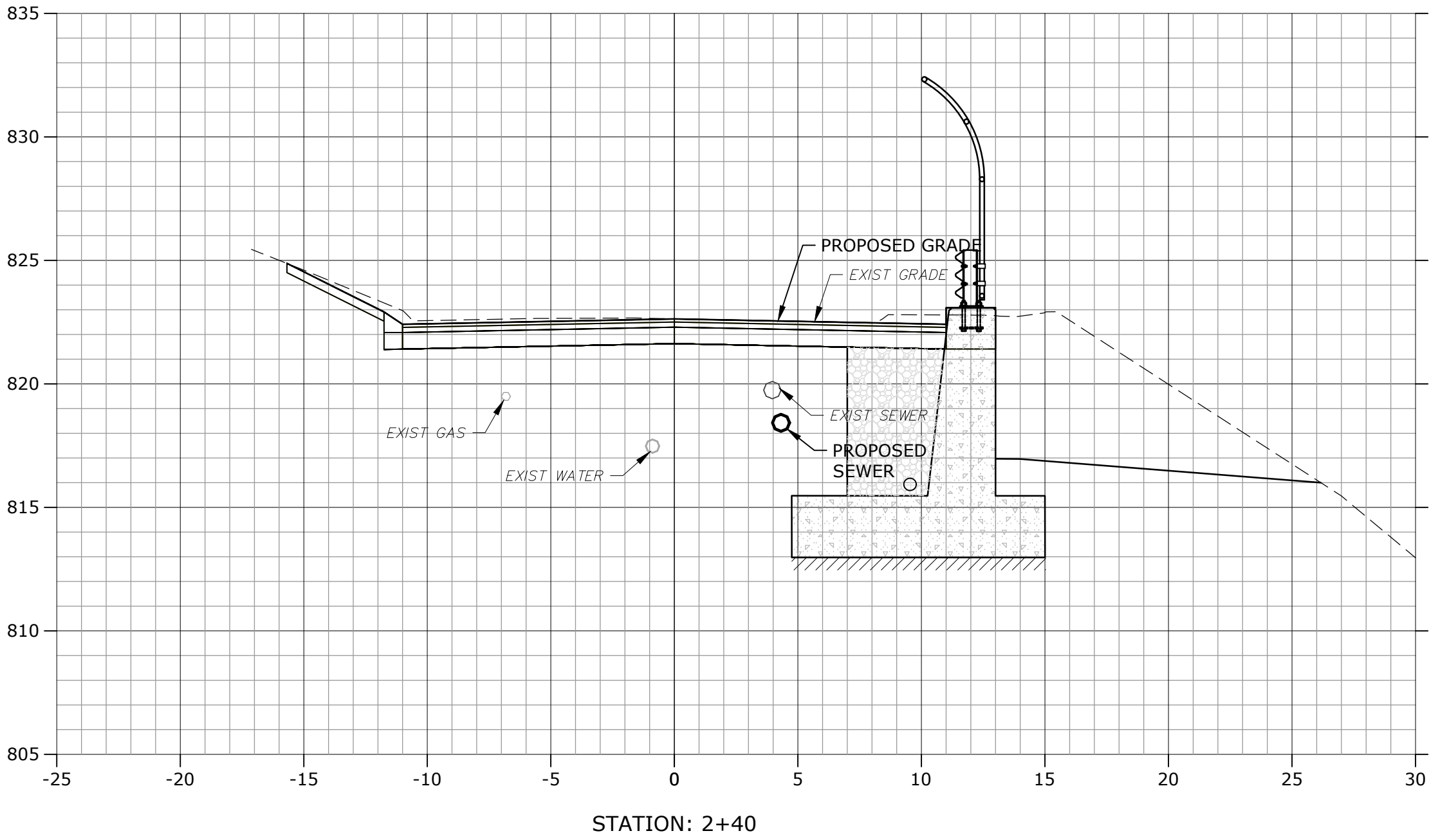
North Adams,
Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO:		N0363-059
DATE:		JULY 2026
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DRAWN BY:		JKM, MLM
DESIGNED/CHECKED BY:		DSH, OJC
APPROVED BY:		CSF

CROSS SECTIONS - 5

SCALE: 1" = 5'

C-605
SHEET 25 OF 26



North Adams,
Massachusetts

[illegible]

SCALE: 1" = 5'

C-606
SHEET 26 OF 26

