

PECKS ROAD BRIDGE REPLACEMENT

PECKS ROAD · PITTSFIELD · MASSACHUSETTS
CONSTRUCTION DOCUMENTS

MARCH 15, 2024

PREPARED FOR
CITY OF PITTSFIELD
70 ALLEN STREET
PITTSFIELD, MA 01201



PREPARED BY
FUSS & O'NEILL
1550 MAIN STREET, SUITE 400
SPRINGFIELD, MA 01103
413.452.0445
www.fando.com

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LOCATION MAP
SCALE: 1" = 1000'



3/15/24

PROJ. No.: 20100916.K62
DATE: MARCH 15, 2024

GI-001

GENERAL SYMBOLS

EXISTING	PROPOSED	
		CATCH BASIN (OR GUTTER INLET, OR LEACHING BASIN)
		CATCH BASIN (OR GUTTER INLET) WITH CURB INLET (GUTTERMOUTH)
		EDGESTONE-TYPE NOTED
		EDGE OF ROAD
		ELECTRIC HANDHOLE (NUMBER AS NOTED)
		ELECTRIC MANHOLE
		TELEPHONE MANHOLE
		WATER MANHOLE
		SEWER MANHOLE
		DRAINAGE MANHOLE
		GAS GATE
		WATER GATE
		CURB STOP
		HYDRANT
		FIRE ALARM BOX
		PARKING METER
		STREET LIGHT POLE
		UTILITY POLE
		GUY POLE
		DRAIN PIPE (UNDER 24")
		DRAIN PIPE (DOUBLE LINE 24" AND OVER)
		SEWER MAIN
		ELECTRIC DUCT
		GAS MAIN
		WATER MAIN
		TELEPHONE DUCT
		MAIL BOX
		HIGHWAY GUARD (TYPE NOTED)
		FENCE (SIZE AND TYPE NOTED)
		HIGHWAY/PROPERTY BOUND (TYPE NOTED)
		CITY, TOWN, OR COUNTY LAYOUT
		STATE HIGHWAY LAYOUT (S.H.L.O.)
		EASEMENT LINE
		PROPERTY LINE
		CITY, TOWN, OR COUNTY BOUNDARY
		STATE BOUNDARY
		BASE OR SURVEY LINE
		CONSTRUCTION BASELINE
		TREE (SIZE AND TYPE NOTED)
		APPROXIMATE FULL DEPTH AREA
		COMPOST FILTER TUBE
		BORDERING VEGETATED WETLAND
		50' BUFFER TO WETLAND
		100' BUFFER TO WETLAND
		100' INNER RIPARIAN
		200' RIVERFRONT BUFFER
		MAJOR CONTOUR
		MINOR CONTOUR

GENERAL

ABAN	ADJUST	APPROX	BIT	BOS	(B.O.)	CLF	CONC	ELEV	EOP	EXIST	FND	GRAN	HMA	LOAM	LT	MAX	MIN	NTS	PGL	PROP	PVM/T	REM.	REMOD	RET.	R&D	R&R	R&S	RT	STA	TEMP	TOS	TYP	NOT TO SCALE	PROFILE GRADE LINE	PROPOSED	PAVEMENT	REMOVE	REMODEL	RETAIN	REMOVE AND DISCARD	REMOVE AND RESET	REMOVE AND STACK	RIGHT	STATION	TEMPORARY	TOP OF SLOPE	TYPICAL
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UTILITIES

ACMP	CAP	CIP	CIT	COND	DIP	FES	F&C	F&G	HDPE	HW	HYD	INV	PVC	PWW	RCP	TSV&B	UP	ASHPALT COATED CORRUGATED METAL PIPE	CORRUGATED ALUMINUM PIPE	CAST IRON PIPE	CHANGE IN TYPE	CONDUIT	DUCTILE IRON PIPE	FLARED END SECTION	FRAME AND COVER	FRAME AND GRATE	HIGH DENSITY POLYETHYLENE PIPE	HEADWALL	HYDRANT	INVERT	POLYVINYLCHLORIDE PIPE	PAVED WATER WAY	REINFORCED CONCRETE PIPE	TAPPING SLEEVE VALVE AND BOX	UTILITY POLE
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ALIGNMENT/GRADING

CC	HP	LP	PC	PI	PNT	PCC	PRC	PT	25.45
CENTER OF CURVE	HIGH POINT	LOW POINT	POINT OF CURVE	POINT OF INTERSECTION	POINT	POINT OF COMPOUND CURVE	POINT OF REVERSE CURVE	POINT OF TANGENT	SPOT ELEVATION

PROFILES

AD	ELEV	HSD	K	PVI	PVC	PVT	PVRC	PVCC	SSD	VC
ALGEBRAIC DIFFERENCE IN RATES OF GRADE	ELEVATION	HORIZONTAL SIGHT DISTANCE	RATE OF VERTICAL CURVATURE	POINT OF VERTICAL INTERSECTION	POINT OF VERTICAL CURVE	POINT OF VERTICAL TANGENT	POINT OF VERTICAL REVERSE CURVE	POINT OF VERTICAL COMPOUND CURVE	STOPPING SIGHT DISTANCE	VERTICAL CURVE

TRAFFIC SIGNAL SYSTEMS

R	Y	G	FR	-FR-	FY	-FY-	(↑)	(← X)	(→ X)	W	DW	FDW
STEADY CIRCULAR RED	STEADY CIRCULAR YELLOW	STEADY CIRCULAR GREEN	FLASHING CIRCULAR RED	FLASHING RED ARROW	FLASHING CIRCULAR YELLOW	FLASHING YELLOW ARROW	STEADY VERTICAL GREEN ARROW	STEADY LEFT ARROW (RED, YELLOW OR GREEN PREFIX)	STEADY RIGHT ARROW (RED, YELLOW OR GREEN PREFIX)	STEADY WALK-WHITE	STEADY DON'T WALK-PORTLAND ORANGE	FLASHING DON'T WALK-PORTLAND ORANGE

TRAFFIC SIGNAL SYMBOLS

EXISTING	PROPOSED	
		FLASHING BEACON CONTROL & METER PEDESTAL
		SIGNAL POST & BASE
		FLASHING BEACON
		PEDESTRIAN SIGNAL HEAD
		PEDESTRIAN PUSH BUTTON

PAVEMENT MARKINGS AND SIGNING SYMBOLS

EXISTING	PROPOSED	
		PAVEMENT ARROW AND LEGEND
		CROSSWALK, 2-12" WHITE LINES (WIDTH NOTED)
		STOP LINE, 12" WHITE LINE 4.0' BEHIND CW (TYP)
		YIELD LINE, 24" x 36" WHITE TRIANGLE, 36" O.C.
		SOLID WHITE CHANNELIZING LINE-SIZE AS NOTED
		SOLID YELLOW CHANNELIZING LINE-SIZE AS NOTED
		BROKEN WHITE LANE LINE - 4"
		SOLID WHITE LANE LINE - 4"
		DOUBLE YELLOW CENTERLINE - 4"
		DASHED WHITE LANE LINE - 4"
		SOLID YELLOW EDGE LINE - 4"
		BROKEN YELLOW LANE LINE - 4"
		BICYCLE LANE
		BICYCLE DETECTION LEGEND
		SIGN AND POST
		DELINEATOR

REGULATORY REQUIREMENTS

- ALL WORK SHALL CONFORM WITH THE ORDER OF CONDITIONS (OOC) ISSUED FOR THE PROJECT.
- NOTIFY CITY OF PITTSFIELD CONSERVATION COMMISSION A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION.
- FIELD INSPECTOR SHALL BE NOTIFIED 48 HOURS PRIOR TO CONSTRUCTION.
- POST DEP SIGN NUMBER ASSIGNED IN ACCORDANCE WITH THE ORDER OF CONDITIONS.
- APPROVED PLANS SHALL BE ON SITE AT ALL TIMES.
- WITHIN LOCAL RIGHTS-OF-WAY, PERFORM THE WORK IN ACCORDANCE WITH LOCAL MUNICIPAL STANDARDS.
- WITHIN STATE RIGHTS-OF-WAY, PERFORM THE WORK IN ACCORDANCE WITH THE MASS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. PERFORM CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
- DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND STATUTES.

GENERAL NOTES:

- INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. NO GUARANTEE TO THE ACCURACY OF THE EXISTING UTILITIES FACILITIES SHOWN IN THIS PROJECT IS EXPRESSED OR IMPLIED UNLESS OTHERWISE NOTED. CONTRACTOR SHALL CONTACT "Mass DIG-SAFE", 1-888-344-7233. CONTRACTOR SHALL MAINTAIN MARKINGS WHERE NEEDED DURING PROJECT. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION. THE CONTRACTOR SHALL VERIFY LOCATIONS OF UTILITIES AND SERVICE LATERALS PRIOR TO CONSTRUCTION. ANY CONFLICTS WITH LOCATIONS OF LIGHT POLES, TREES, ETC. SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY LOCAL AND STATE APPROVALS AND PERMITS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CONFORM TO ALL REQUIREMENTS OF THE LOCAL AND STATE AGENCIES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND FEES REQUIRED FOR THIS WORK INCLUDING BUT NOT LIMITED TO CITY SIDEWALK AND EXCAVATION PERMITS AND ASSOCIATED BONDING.
- THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES AND STRUCTURES. THOSE OF WHICH HAVE BEEN DAMAGED SHALL BE PROMPTLY REPAIRED TO EXISTING OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE.
- THE ROADWAY IS TO BE GRADED SMOOTHLY AND EVENLY IN ACCORDANCE WITH THE GRADING AND TIE PLANS, PROFILE, AND CROSS SECTIONS. THE CONTRACTOR IS RESPONSIBLE FOR INSURING A POSITIVE DRAINAGE FLOW TO ALL CATCH BASINS WITHOUT CREATING ANY FLAT SPOTS THAT WILL RESULT IN STANDING WATER.
- THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS TO REMOVE ANY PERSONAL ITEMS, LANDSCAPING, PLANT BULBS, PAVERS LOCATED IN THE TEMPORARY EASEMENT AND CITY LAYOUT.
- ANY PUBLIC OR PRIVATE PROPERTY DISTURBED AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE RESTORED AS QUICKLY AS POSSIBLE AND TO THE SATISFACTION OF THE ENGINEER.
- RIM OR FRAME ELEVATIONS OF ALL UTILITY STRUCTURES SHALL BE ADJUSTED TO MEET FINISHED PAVED SURFACES. PRIVATE UTILITIES WHO ARE RESPONSIBLE FOR ADJUSTING THEIR OWN STRUCTURES SHALL BE NOTIFIED AT LEAST 2 WEEKS IN ADVANCE BY THE CONTRACTOR.
- STAGING AREAS AND MATERIAL STOCK PILES SHALL BE LIMITED WITHIN THE SITE AND LOCATED SO AS NOT TO INTERFERE WITH PEDESTRIAN OR VEHICULAR TRAFFIC UNLESS APPROVED OTHERWISE BY THE CITY. THE CONTRACTOR SHALL PROVIDE SAFETY DEVICES (IF ORDERED BY THE ENGINEER) TO PROTECT STOCK PILES/WORK STAGING AREAS. IF THIS WORK IS SO ORDERED THERE WILL BE NO ADDITIONAL COMPENSATION MADE TO THE CONTRACTOR.
- HOURS OF WORK SHALL BE DEFINED IN THE CONTRACT DOCUMENTS. THE CITY RESERVES THE RIGHT TO ADJUST THESE HOURS IN THE INTEREST OF PUBLIC SAFETY.
- ACCESS TO PRIVATE PROPERTIES MUST BE MAINTAINED AT ALL TIMES. FOR SECURITY REASONS ALL PRIVATELY OWNED FENCING THAT IS TO BE REMOVED SHALL BE REPLACED WITHIN 72 HOURS OF REMOVAL.
- INSTALL SEDIMENTATION AND EROSION CONTROL MEASURES PRIOR TO START OF CONSTRUCTION. EXISTING AND PROPOSED CATCH BASINS DOWNGRADE OF ALL WORK AREAS SHALL UTILIZE SILT SACKS DURING CONSTRUCTION.

MAP REFERENCE

- EXISTING CONDITIONS DEPICTED ON THIS PLAN ARE BASED ON THE TOPOGRAPHIC SURVEY PLAN PREPARED FOR THE CITY OF PITTSFIELD BY GUNTLOW & ASSOCIATES, INC., 55 NORTH STREET WILLIAMSTOWN MA, 01267. PHONE 413-458-2198. FAX 413-458-2712. SURVEY EFFORTS WERE CONDUCTED JUNE-AUGUST, 2019.
- TOPOGRAPHIC ELEVATIONS ARE BASED ON N.A.V.D 1988.

ABBREVIATIONS

DESIGNER REVIEWER

DATE

No.

3/15/24

SEAL
COMMONWEALTH OF MASSACHUSETTS
DANIEL F. DELANY
CIVIL
NO. 43477
REGISTERED PROFESSIONAL ENGINEER
PEAKS ROAD OVER ONOTA BROOK
PITTSFIELD, MASSACHUSETTS

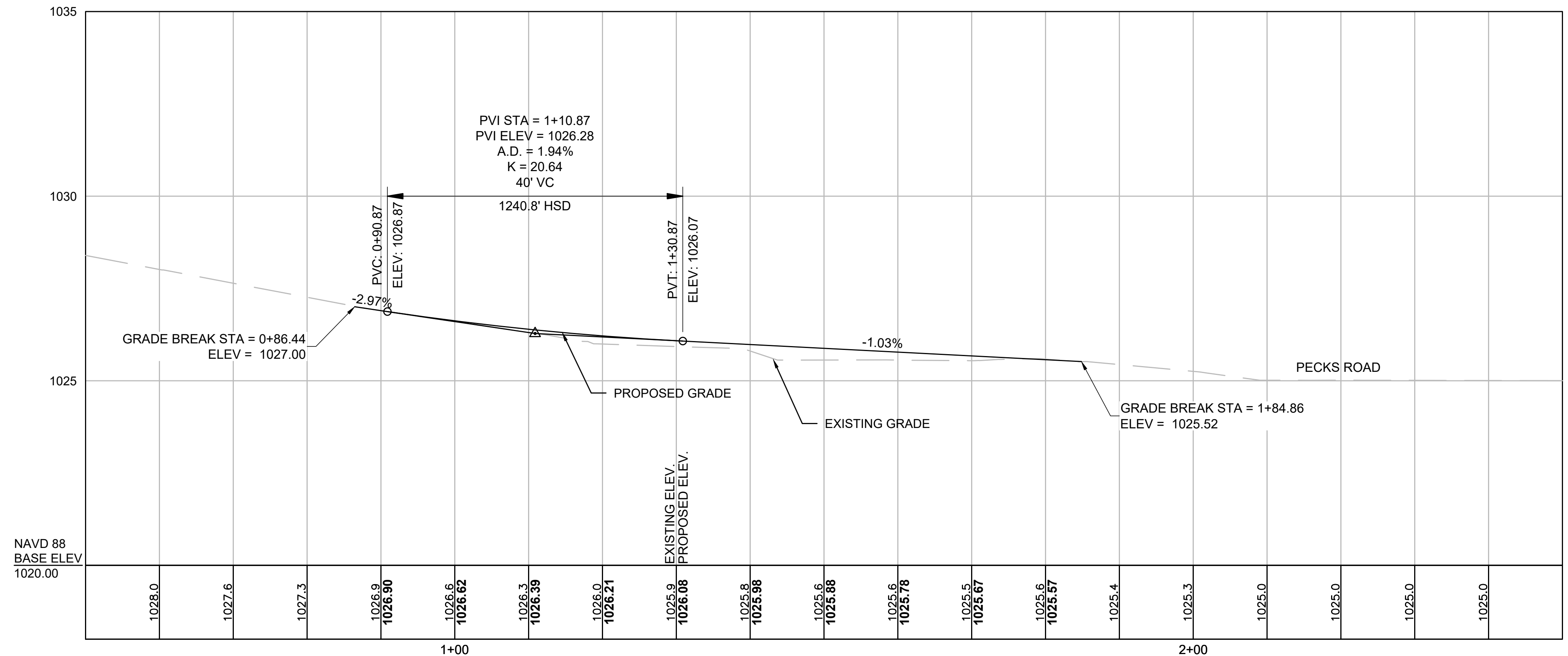
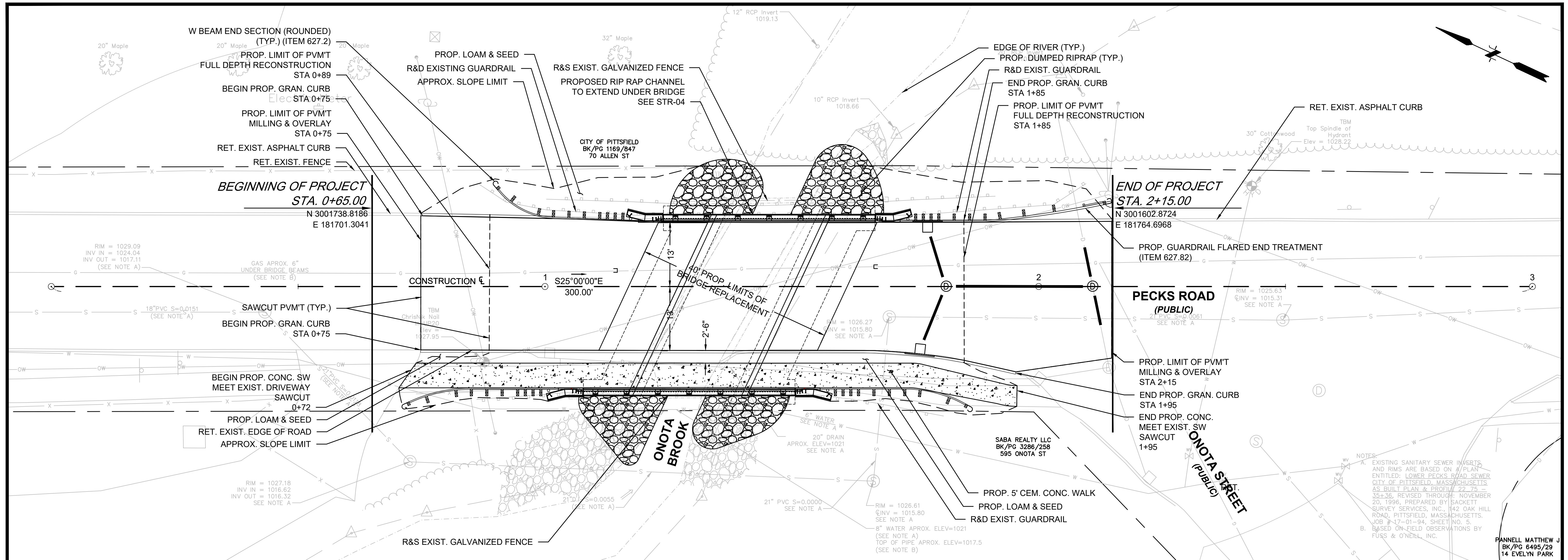
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DATUM:
HORZ.:
VERT.:

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155 MAIN STREET, SUITE 400
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413.452.0445
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CITY OF PITTSFIELD
LEGEND & GENERAL NOTES
PECKS ROAD OVER ONOTA BROOK
PITTSFIELD, MASSACHUSETTS

PROJ. No.: 20100916.K62
DATE: 03/15/2024

GEN-101



DESIGNER	REVIEWER
DATE	DESCRIPTION
No.	

SCALE: HORZ.: 1" = 10'
 VERT.: 1" = 20'

DATUM: NAD 83

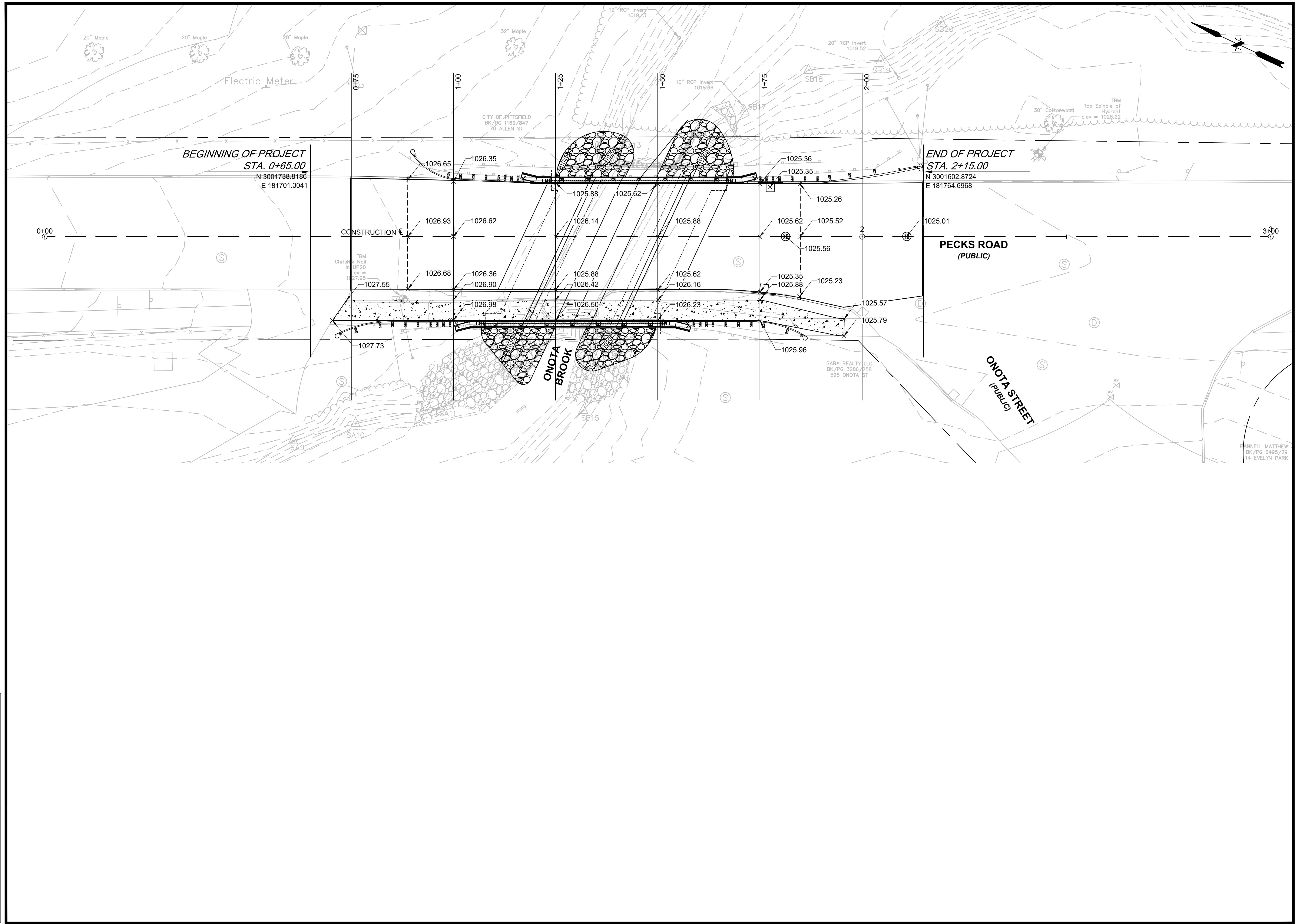
GRAPHIC SCALE

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 PITTSFIELD, MA 01105
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CITY OF PITTSFIELD
CONSTRUCTION PLAN & PROFILE
PECKS ROAD OVER ONOTA BROOK
 MASSACHUSETTS
 PITTSFIELD

PROJ. No.: 20100916.K62
 DATE: 03/15/2024

CS-101



DESIGNER	REVIEWER
DESCRIPTION	
DATE	
No.	

3/15/24

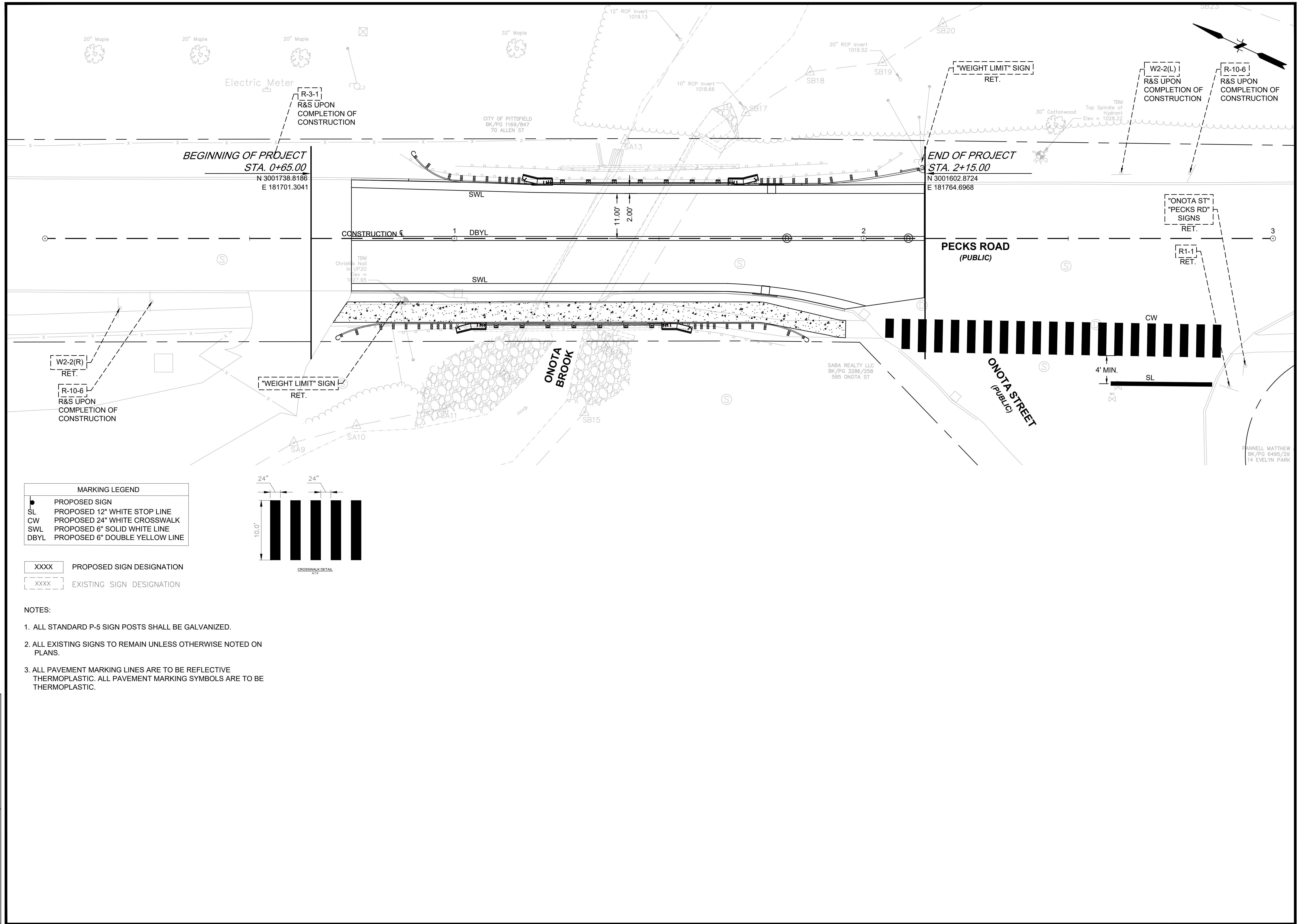
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 VERT.: -
 DATUM: -
 HORZ.: -
 VERT.: -
 GRAPHIC SCALE: 0 10' 20' 40'

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CITY OF PITTSFIELD
 GRADING PLAN
 PECKS ROAD OVER ONOTA BROOK
 MASSACHUSETTS
 PITTSFIELD

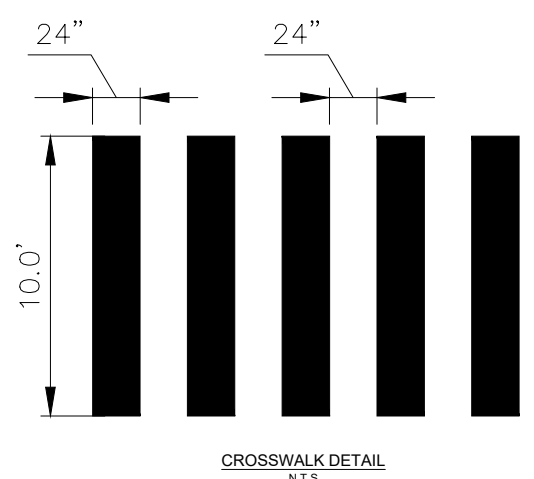
PROJ. No.: 20100916.K62
 DATE: 03/15/2024

CG-101



MARKING LEGEND	
	PROPOSED SIGN
SL	PROPOSED 12" WHITE STOP LINE
CW	PROPOSED 24" WHITE CROSSWALK
SWL	PROPOSED 6" SOLID WHITE LINE
DBYL	PROPOSED 6" DOUBLE YELLOW LINE

XXXX	PROPOSED SIGN DESIGNATION
XXXX	EXISTING SIGN DESIGNATION



- NOTES:
- ALL STANDARD P-5 SIGN POSTS SHALL BE GALVANIZED.
 - ALL EXISTING SIGNS TO REMAIN UNLESS OTHERWISE NOTED ON PLANS.
 - ALL PAVEMENT MARKING LINES ARE TO BE REFLECTIVE THERMOPLASTIC. ALL PAVEMENT MARKING SYMBOLS ARE TO BE THERMOPLASTIC.

DESIGNER/REVIEWER
DESCRIPTION
DATE
No.

3/15/24

SCALE:
HORZ.: 1" = 20'
VERT.: -
DATUM:
HORZ.: -
VERT.: -
GRAPHIC SCALE
0 10' 20' 40'

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CITY OF PITTSFIELD	MASSACHUSETTS
SIGNAGE & PAVEMENT MARKING PLAN	
PECKS ROAD OVER ONOTA BROOK	
PITTSFIELD	

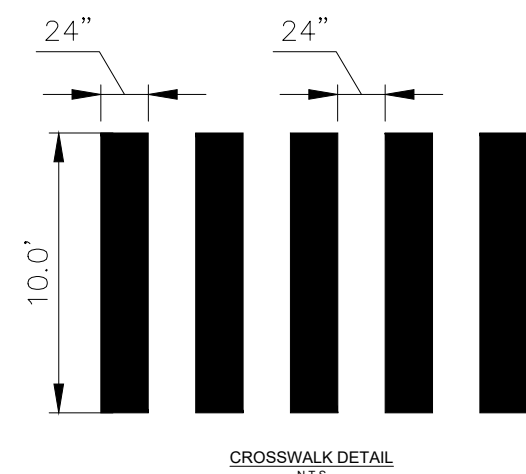
PROJ. No.: 20100916.K62
DATE: 03/15/2024
CT-101

NOTES:

- ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND MASSDOT'S STANDARD WORK ZONE TRAFFIC CONTROL DETAILS AND ALL REVISIONS.
- TEMPORARY TRAFFIC SIGNAL SHALL INCLUDE HARDWARE & PROVISIONS FOR EMERGENCY PREEMPTION.
- ADA COMPLIANT PEDESTRIAN ACCESS TO ALL BUILDINGS SHALL BE MAINTAINED AT ALL TIMES.
- CONTRACTOR SHALL MAINTAIN ABUTTER ACCESS AT ALL TIMES EXCEPT FOR VERY SHORT PERIODS APPROVED BY THE ENGINEER. CONTRACTORS SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE TEMPORARY CLOSURE OF ACCESS.
- ALL CONSTRUCTION SIGNS SHALL BE BLACK LEGEND ON A REFLECTORIZED ORANGE BACKGROUND UNLESS OTHERWISE NOTED AND SHALL CONFORM TO THE MUTCD.
- ALL SIGNS, INCLUDING EXISTING, THAT ARE NOT REPRESENTATIVE OF ACTUAL WORK CONDITIONS SHALL BE EITHER COVERED OR REMOVED WHEN NOT APPLICABLE.
- PAVEMENT MARKINGS WHICH ARE NO LONGER APPLICABLE SHALL BE REMOVED. APPLY TEMPORARY MARKINGS WHERE SHOWN ON THE TRAFFIC MANAGEMENT PLANS AND AS DIRECTED BY THE ENGINEER. TEMPORARY MARKINGS TO BE REMOVED AFTER CONSTRUCTION.
- EXISTING PAVEMENT MARKINGS WHICH ARE IN CONFLICT WITH TEMPORARY TRAFFIC CONTROLS SHALL BE COVERED TEMPORARILY WITH BLACKOUT PAINT OR TAPE, AS REQUIRED BY THE ENGINEER.
- TEMPORARY BARRIER SHALL BE PROVIDED BY THE CONTRACTOR. CONCRETE BARRIER SHALL NOT BE USED DUE TO LOADING CONSTRAINTS OF THE BRIDGE.
- CONTRACTOR SHALL REFER TO FIGURE BRG-02 "ONE LANE ALTERNATING TRAFFIC WITH TEMPORARY SIGNAL" FROM THE MASSDOT STANDARD DETAILS AND DRAWINGS FOR THE DEVELOPMENT OF TTCP FOR THE PLACEMENT OF TEMPORARY TRAFFIC CONTROL DEVICES FOR THIS STAGE OF CONSTRUCTION.

TEMPORARY TRAFFIC SIGNAL TIMINGS

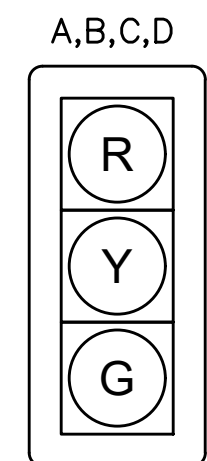
	DIRECTION	HOUSING	Ø/OL	PHASE 1			PHASE 2		
				PREEMPTION II	1	2	3	7	8
MINIMUM GREEN									
PASSAGE TIME									
MAXIMUM I				15			15		
MAXIMUM II									
YELLOW CLEAR				3			3		
RED CLEAR						10		10	
WALK									
PED CLEAR									
PECKS ROAD NB		A, B	1	G	Y	R	R	R	R
PECKS ROAD SB		C, D	2	R	R	R	G	Y	R
DETECTORS				LOCK			LOCK		
RECALL				MAX			MAX		
DUAL ENTRY				OFF			OFF		
FLASHING OPERATION PER MUTCD SEC. 4D-12									



LEGEND

- IMPACT ATTENUATOR BARREL
- ▬ BARRIER
- ▬ TYPE III BARRICADE
- ▬ PEDESTRIAN MANAGEMENT GUIDANCE SYSTEM
- ▬ TEMPORARY HMA WHEELCHAIR RAMP
- ▬ DRIVEWAY ASSISTANCE DEVICE
- ▬ TRAFFIC OR PEDESTRIAN SIGNAL
- PREEMPTION DETECTION DEVICE
- ▬ WORK AREA

DBYL 6" WIDTH DOUBLE YELLOW MARKINGS
SL 12" WIDTH STOP LINE MARKING
SWL 6" WIDTH SOLID WHITE LINE MARKING
CW 24" WIDTH SOLID WHITE LINE MARKING

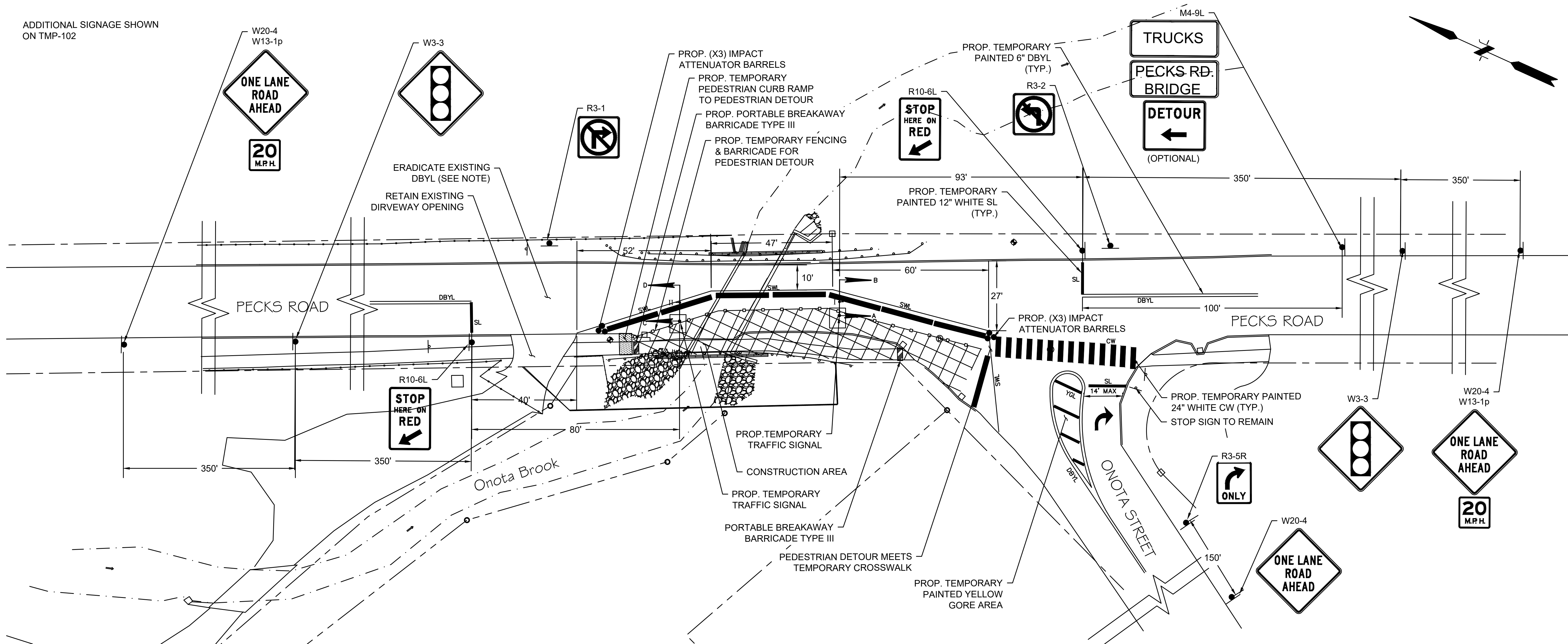


PROPOSED SIGNAL HEAD

SIGNAL NOTES:

- CLEARANCE INTERVAL IS BASED ON 20 MPH DESIGN SPEED.
- THE TIMINGS SHOWN ON THIS TABLE ARE DESIGNED ONLY FOR THE LOCATIONS OF THE STOP BAR MARKINGS SHOWN ON THIS PLAN. IIF STOP BAR LOCATIONS ARE MOVED OR MODIFIED FROM THIS PLAN, THE CONTRACTOR SHALL CONTACT THE ENGINEER TO OBTAIN NEW CLEARANCE INTERVAL.

ADDITIONAL SIGNAGE SHOWN ON TMP-102



DESIGNER REVIEWER

DESCRIPTION

DATE

No.

SEAL
COMMONWEALTH OF MASSACHUSETTS
DANIEL F. DELANEY
CIVIL
NO. 43477
REGISTERED PROFESSIONAL ENGINEER
TRAFFIC ENGINEERING
3/15/24

SCALE: HORIZ.: 1" = 20'
VERT.: -
DATUM: -
HORIZ.: -
VERT.: -
0 10' 20' 40'
GRAPHIC SCALE

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SPRINGFIELD, MA 01103
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CITY OF PITTSFIELD
TEMPORARY TRAFFIC CONTROL PLAN
PECKS ROAD OVER ONOTA BROOK
PITTSFIELD MASSACHUSETTS

PROJ. No.: 20100916.K62
DATE: 03/15/2024

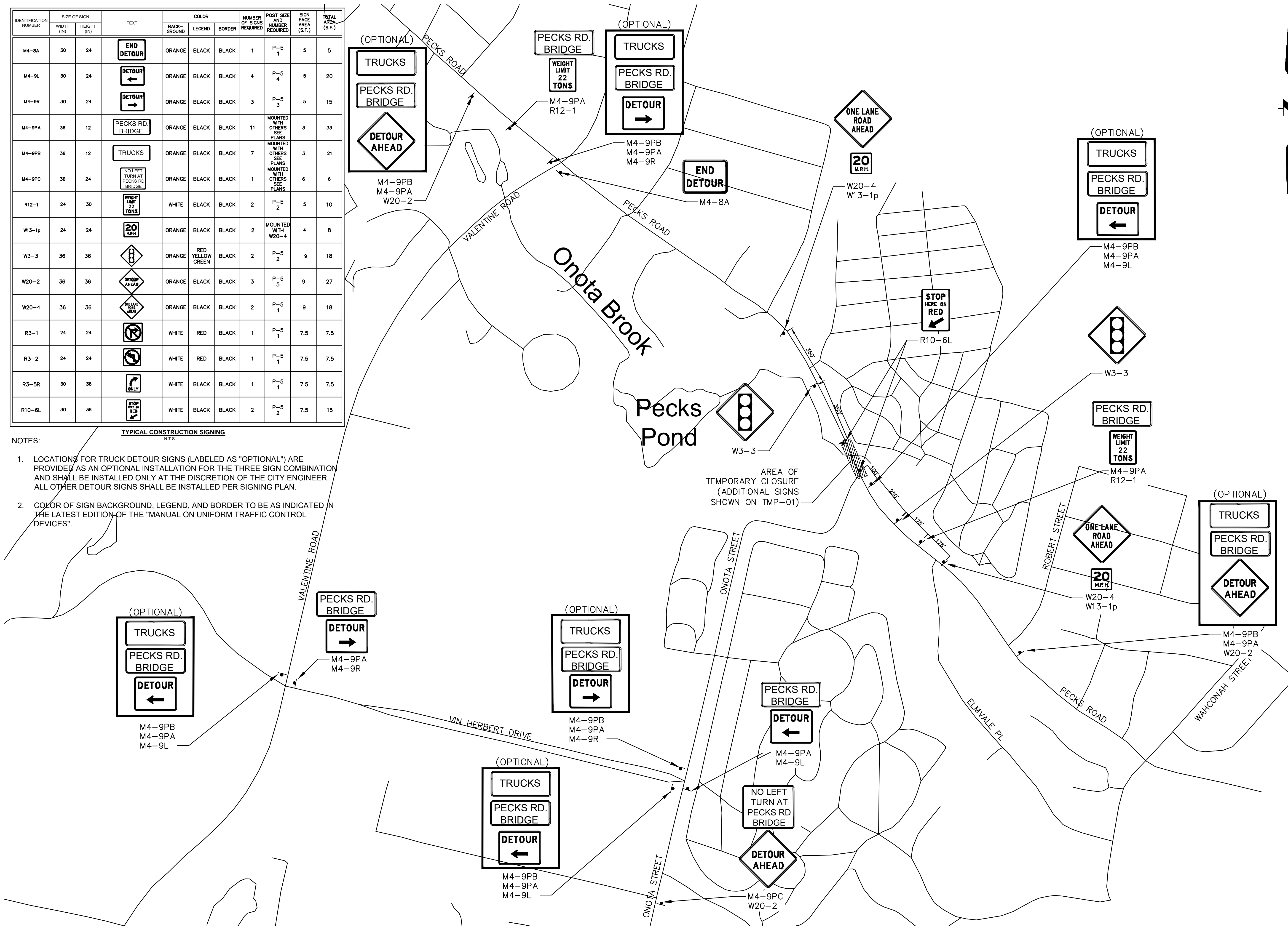
TMP-101

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	COLOR			NUMBER OF SIGNS REQUIRED	POST SIZE AND NUMBER REQUIRED	SIGN FACE AREA (S.F.)	TOTAL AREA (S.F.)
	WIDTH (IN)	HEIGHT (IN)		BACK-GROUND	LEGEND	BORDER				
M4-8A	30	24	END DETOUR	ORANGE	BLACK	BLACK	1	P-5 1	5	5
M4-9L	30	24	DETOUR ←	ORANGE	BLACK	BLACK	4	P-5 4	5	20
M4-9R	30	24	DETOUR →	ORANGE	BLACK	BLACK	3	P-5 3	5	15
M4-9PA	36	12	PECKS RD. BRIDGE	ORANGE	BLACK	BLACK	11	MOUNTED WITH OTHERS SEE PLANS	3	33
M4-9PB	36	12	TRUCKS	ORANGE	BLACK	BLACK	7	MOUNTED WITH OTHERS SEE PLANS	3	21
M4-9PC	36	24	NO LEFT TURN AT PECKS RD BRIDGE	ORANGE	BLACK	BLACK	1	MOUNTED WITH OTHERS SEE PLANS	6	6
R12-1	24	30	WEIGHT LIMIT 22 TONS	WHITE	BLACK	BLACK	2	P-5 2	5	10
W13-1p	24	24	20 MPH	ORANGE	BLACK	BLACK	2	MOUNTED WITH W20-4	4	8
W3-3	36	36	☊	ORANGE	RED YELLOW GREEN	BLACK	2	P-5 2	9	18
W20-2	36	36	DETOUR AHEAD	ORANGE	BLACK	BLACK	3	P-5 5	9	27
W20-4	36	36	ONE LANE ROAD AHEAD	ORANGE	BLACK	BLACK	2	P-5 1	9	18
R3-1	24	24	☊	WHITE	RED	BLACK	1	P-5 1	7.5	7.5
R3-2	24	24	☊	WHITE	RED	BLACK	1	P-5 1	7.5	7.5
R3-5R	30	36	LEFT ONLY	WHITE	BLACK	BLACK	1	P-5 1	7.5	7.5
R10-6L	30	36	STOP HERE ON RED	WHITE	BLACK	BLACK	2	P-5 2	7.5	15

TYPICAL CONSTRUCTION SIGNING
N.T.S.

NOTES:

- LOCATIONS FOR TRUCK DETOUR SIGNS (LABELED AS "OPTIONAL") ARE PROVIDED AS AN OPTIONAL INSTALLATION FOR THE THREE SIGN COMBINATION AND SHALL BE INSTALLED ONLY AT THE DISCRETION OF THE CITY ENGINEER. ALL OTHER DETOUR SIGNS SHALL BE INSTALLED PER SIGNING PLAN.
- COLOR OF SIGN BACKGROUND, LEGEND, AND BORDER TO BE AS INDICATED IN THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".



DESIGNER REVIEWER: _____
 DATE: _____
 No. _____
 DESCRIPTION: _____
 No. _____
 DATE: _____

SEAL OF COMMONWEALTH OF MASSACHUSETTS
 DANIEL F. DELANY CIVIL ENGINEER
 NO. 43477
 REGISTERED PROFESSIONAL ENGINEER
 PEPPER HARBOR
 3/15/24

SCALE: HORZ.: 1"=250'
 VERT.: -
 DATUM: -
 HORZ.: -
 VERT.: -
 GRAPHIC SCALE: 0 125 250 500

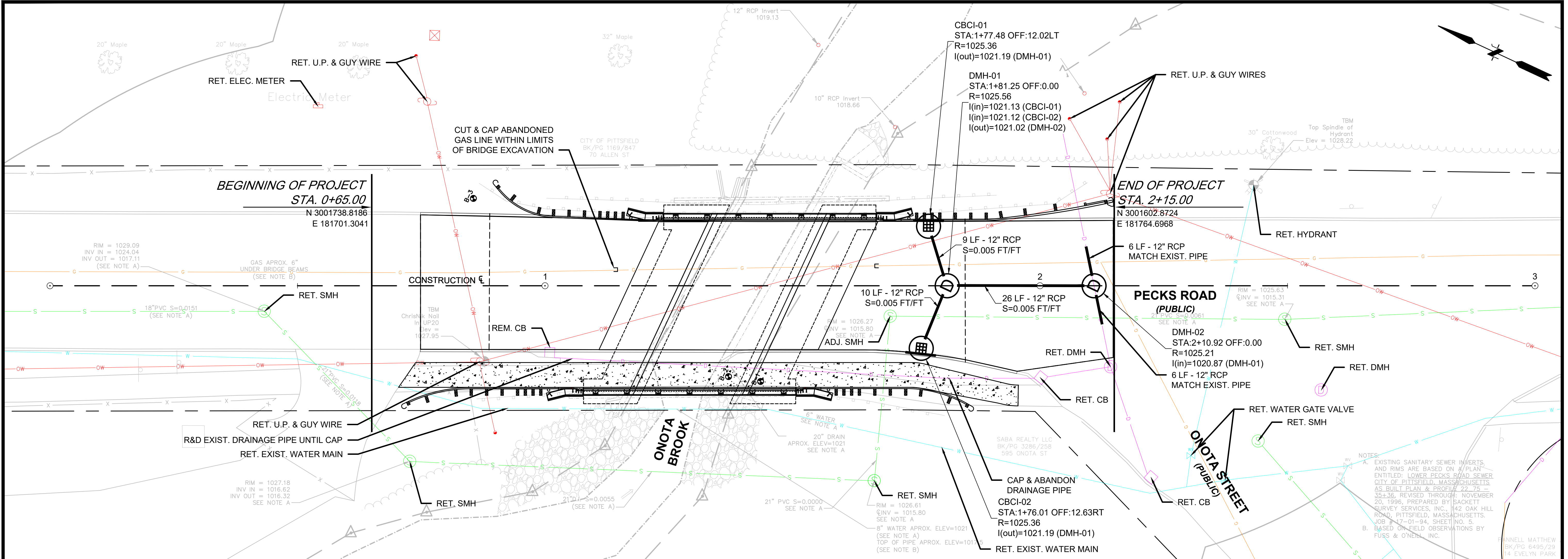
FUSS & O'NEILL
 155 MAIN STREET, SUITE 400
 PITTSFIELD, MA 01105
 www.fandoc.com

CITY OF PITTSFIELD
 TEMPORARY TRAFFIC CONTROL PLAN
 PECKS ROAD OVER ONOTA BROOK
 MASSACHUSETTS
 PITTSFIELD

PROJ. No.: 20100916.K62
 DATE: 03/15/2024

TMP-102

File: J:\DWG\20100916\K62\Civil\Plan\Highway Design\20100916K62_UTL01.dwg Layout: CU-101 Plotted: 2024-03-14 3:24 PM User: E.Vasilchenko
PC3: AUTOCAD PDF (GENERAL DOCUMENTATION) PC3: STB/CTB: FO STB



NOTES:

- IF EXISTING PIPES SHOWN TO BE REMOVED ARE WITHIN THE LIMITS OF BRIDGE EXCAVATION THEN THE REMOVAL COST OF THE OLD PIPES SHALL BE INCLUDED IN THE COST OF BRIDGE EXCAVATION.
- ALL PROPOSED (NEW) CATCH BASINS SHALL HAVE 4' SUMP.
- ALL CATCH BASINS WITHIN THE PAVED ROADWAY SHALL HAVE CASCADE STYLE/BICYCLE SAFE GRATES UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL ELEVATIONS, STATIONS, AND OFFSETS FOR ALL CATCH BASIN AND DRAINAGE MANHOLES COME FROM THE CENTER OF COVER OR GRATE.
- CONTRACTOR SHALL USE APPROPRIATELY SIZED RCP TO MATCH INTO EXISTING PIPES AS SHOWN.

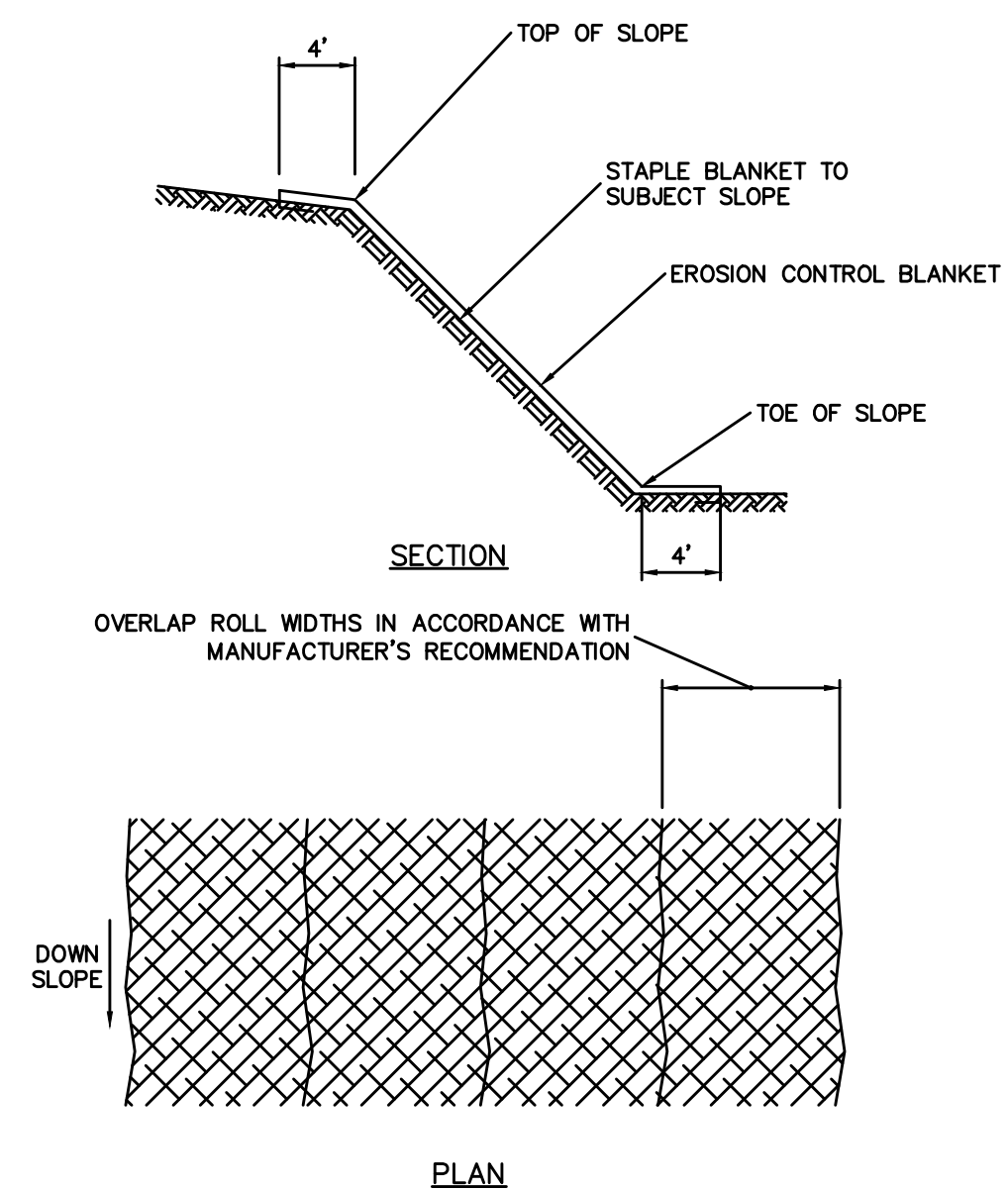
No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

Seal of Daniel F. Delany, Civil Engineer No. 43477, State of Massachusetts, dated 3/15/24.

FUSS & O'NEILL
1550 MAIN STREET, SUITE 400
PITTSFIELD, MA 01105
www.fandoo.com

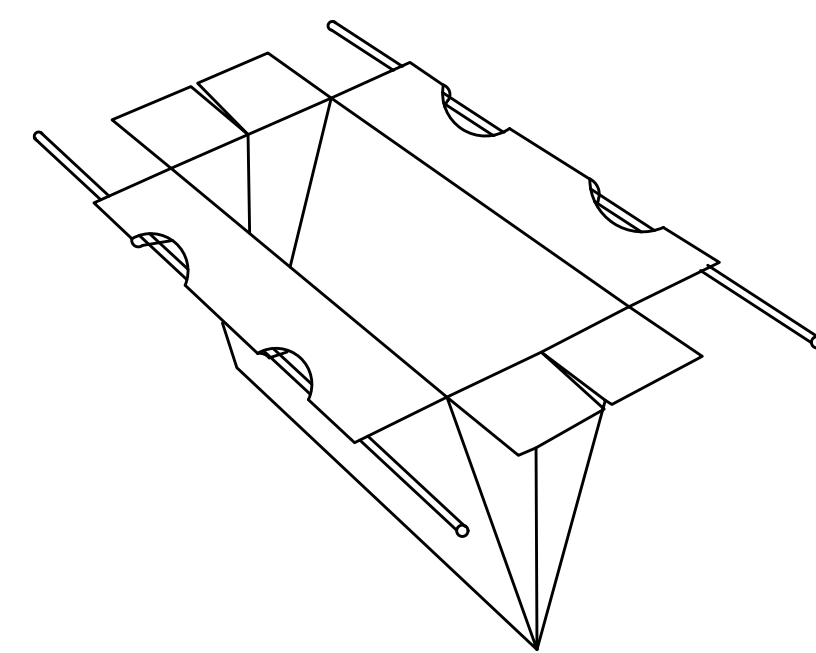
CITY OF PITTSFIELD
UTILITY PLAN
PECKS ROAD OVER ONOTA BROOK
PITTSFIELD, MASSACHUSETTS

PROJ. No.: 20100916.K62
DATE: 03/15/2024
CU-101



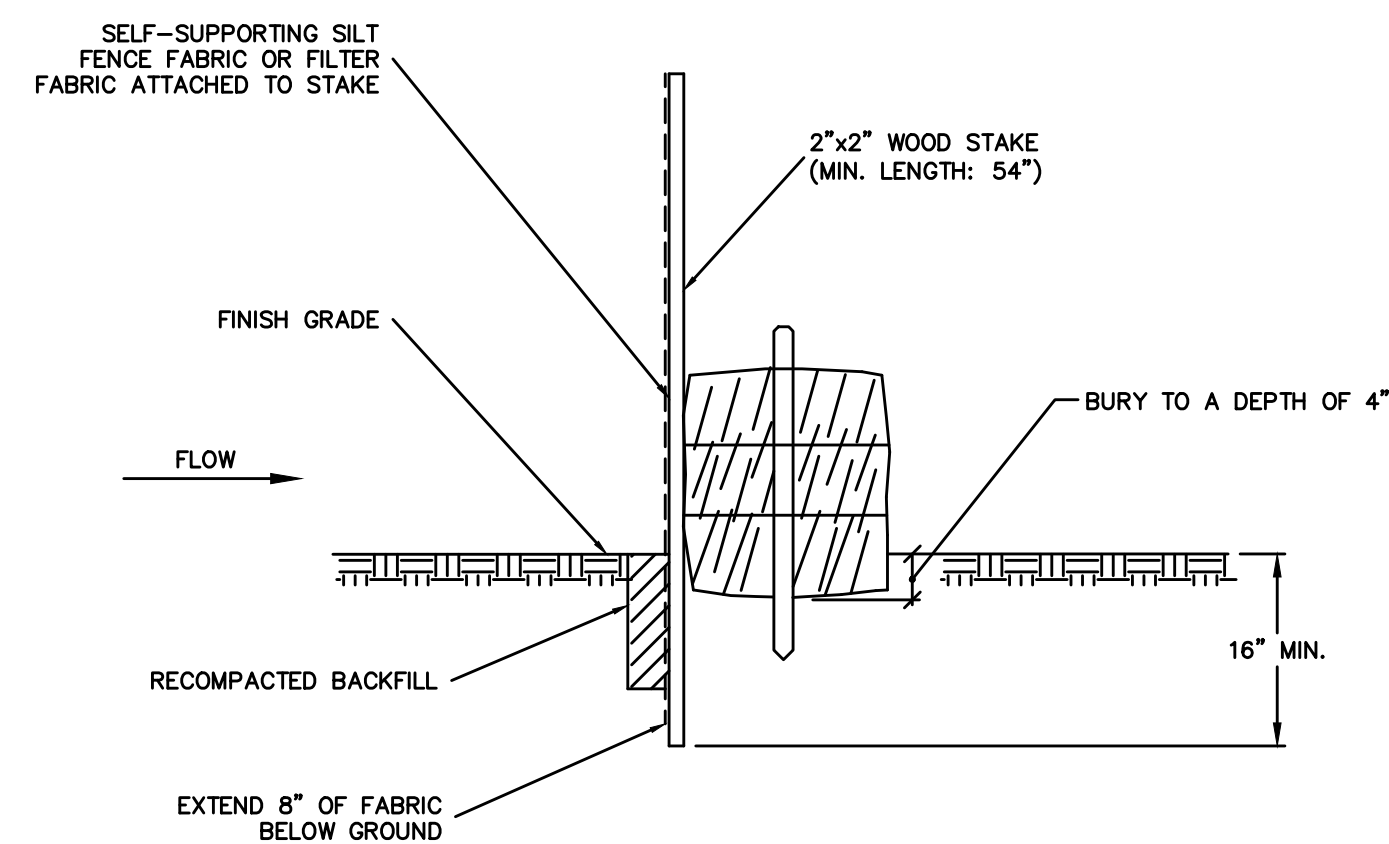
NOTE:
REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR DETAILS ON INSTALLATION INCLUDING STAPLING PATTERN, OVERLAPPING DETAILS, EDGE EMBEDMENT, AND ANCHOR DETAILS. TO BE INSTALLED ON SLOPES 3:1 OR GREATER.

EROSION CONTROL BLANKET
SCALE: N.T.S.

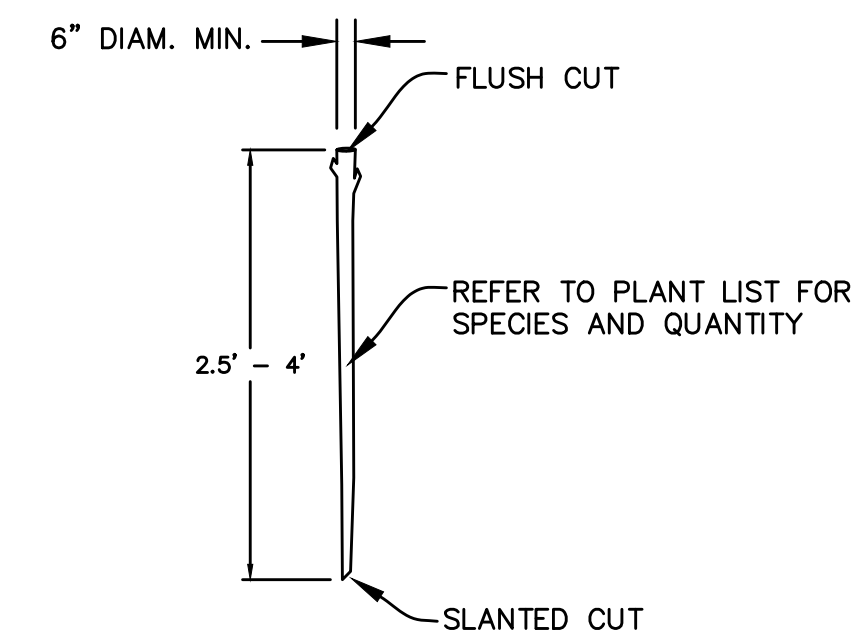


NOTES:
1. SIZED TO FIT ANY SIZE OR SHAPE CATCH BASIN.
2. ALL SEAMS DOUBLE STITCHED.
3. PERMEABILITY - REGULAR FLOW SILTSACK - 40 gal./min./sq. ft.
HI - FLOW SILTSACK - 200 gal./min./sq. ft.

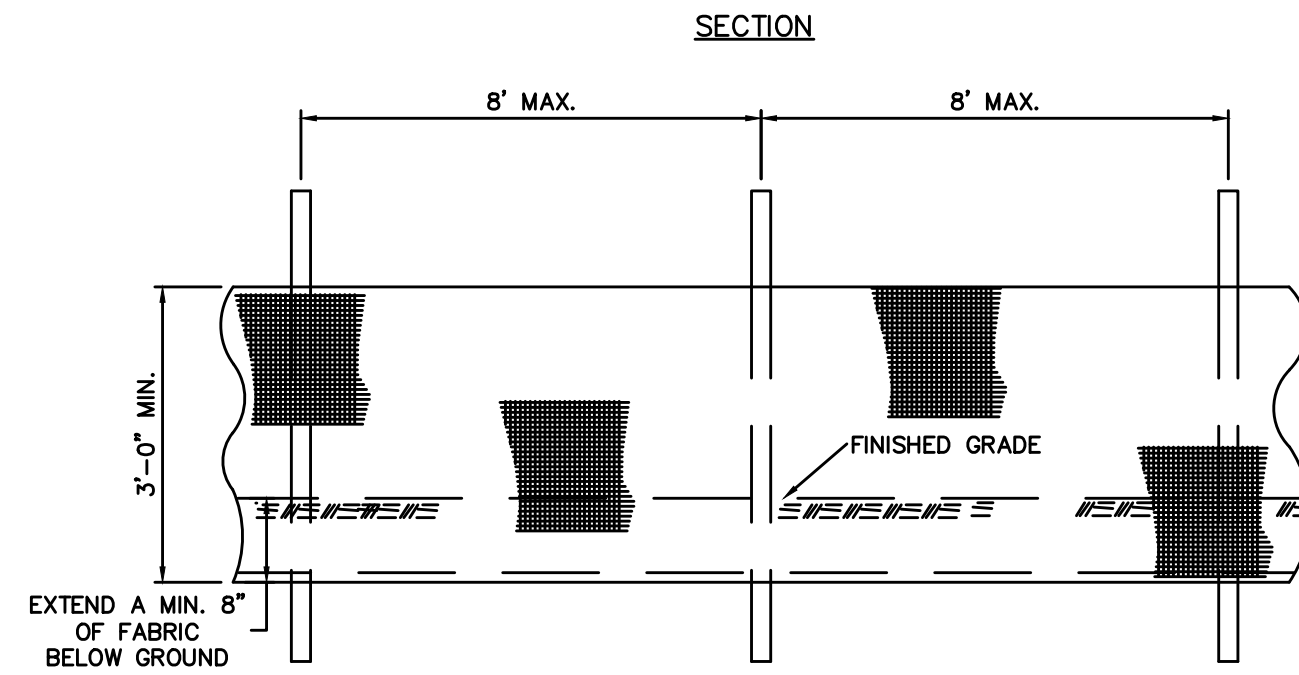
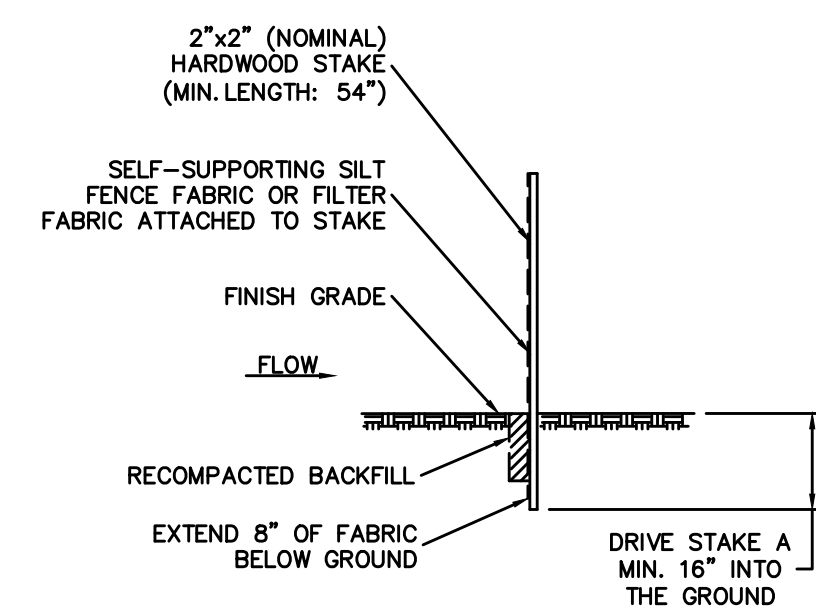
CATCH BASIN SILT SACK
SCALE: N.T.S.



SILT FENCE BACKED W/ STRAW BALES
SCALE: N.T.S.

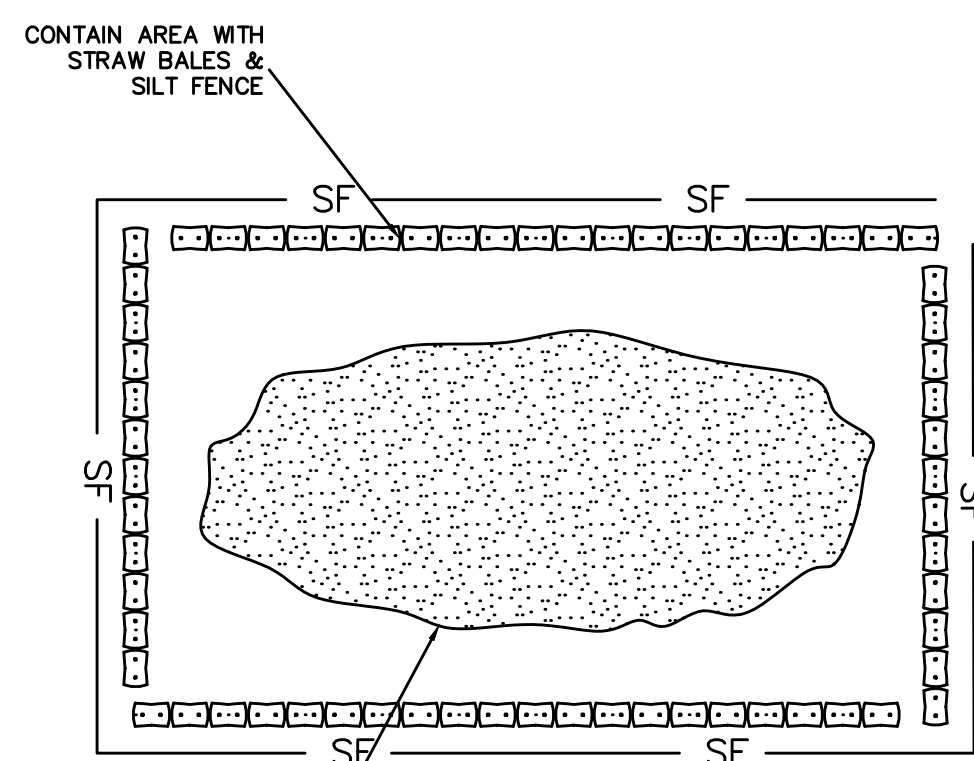


TYPICAL LIVE STAKE DETAIL
SCALE: N.T.S.



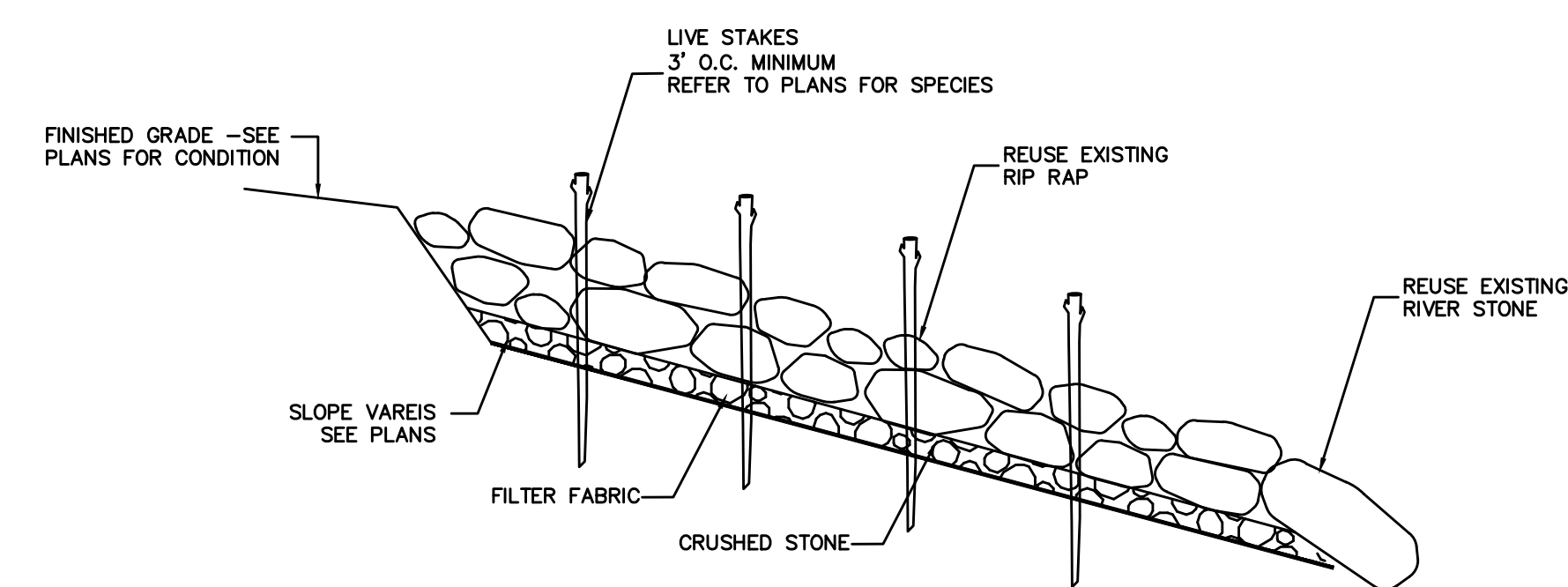
NOTES:
1. INSTALL SILT FENCE & WOOD STAKES AS RECOMMENDED BY MANUFACTURER.
2. SYNTHETIC FILTER FABRIC SHALL BE A PEROUS SHEET OF PROPYLENE, NYLON, POLYESTER OR ETHYLENE FILAMENTS AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE SPECIFICATIONS.

SILT FENCE
SCALE: N.T.S.



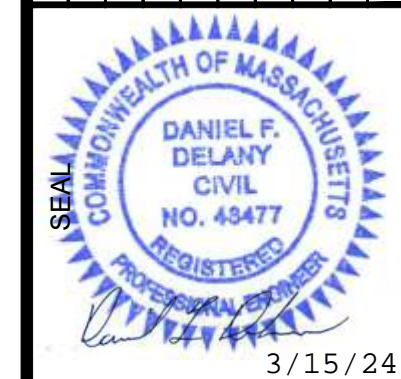
NOTE:
STOCKPILES SHALL BE LOCATED WITHIN CONSTRUCTION FENCE LIMITS

TEMPORARY SOIL STOCKPILE
SCALE: N.T.S.



RIP RAP SLOPE PROTECTION
SCALE: N.T.S.

No.	DATE	DESCRIPTION	DESIGNER/REVIEWER



3/15/24

SCALE: 1" = 20'	HORZ. 1" = 20'
DATUM: -	VERT. -
HORZ. 1" = 20'	VERT. 1" = 4'

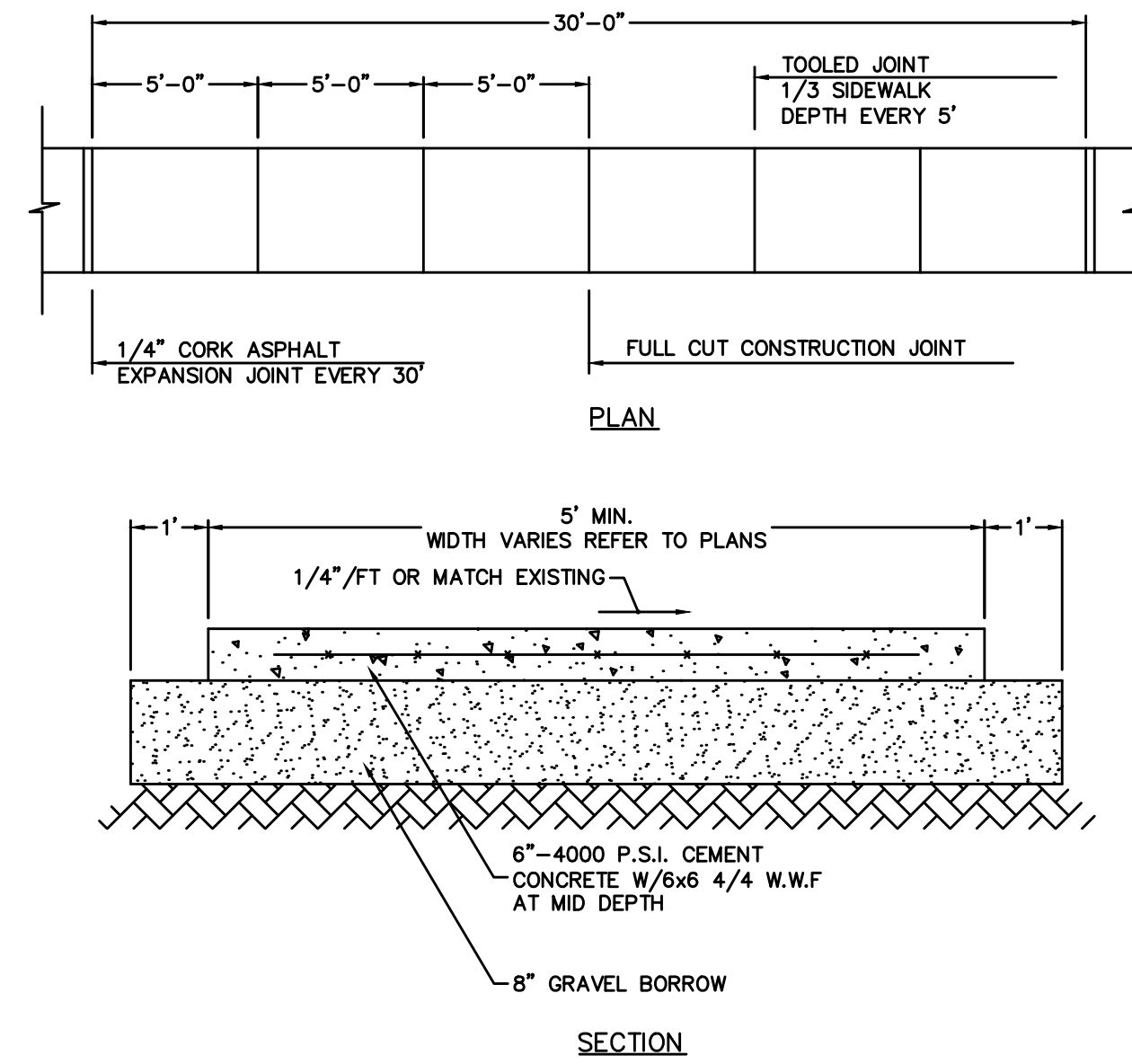
GRAPHIC SCALE

FUSS & O'NEILL
155 MAIN STREET, SUITE 400
SMITHFIELD, MA 01105
413-452-0445
www.fandoo.com

CITY OF PITTSFIELD
CONSTRUCTION DETAILS
PECKS ROAD OVER ONOTA BROOK
MASSACHUSETTS
PITTSFIELD

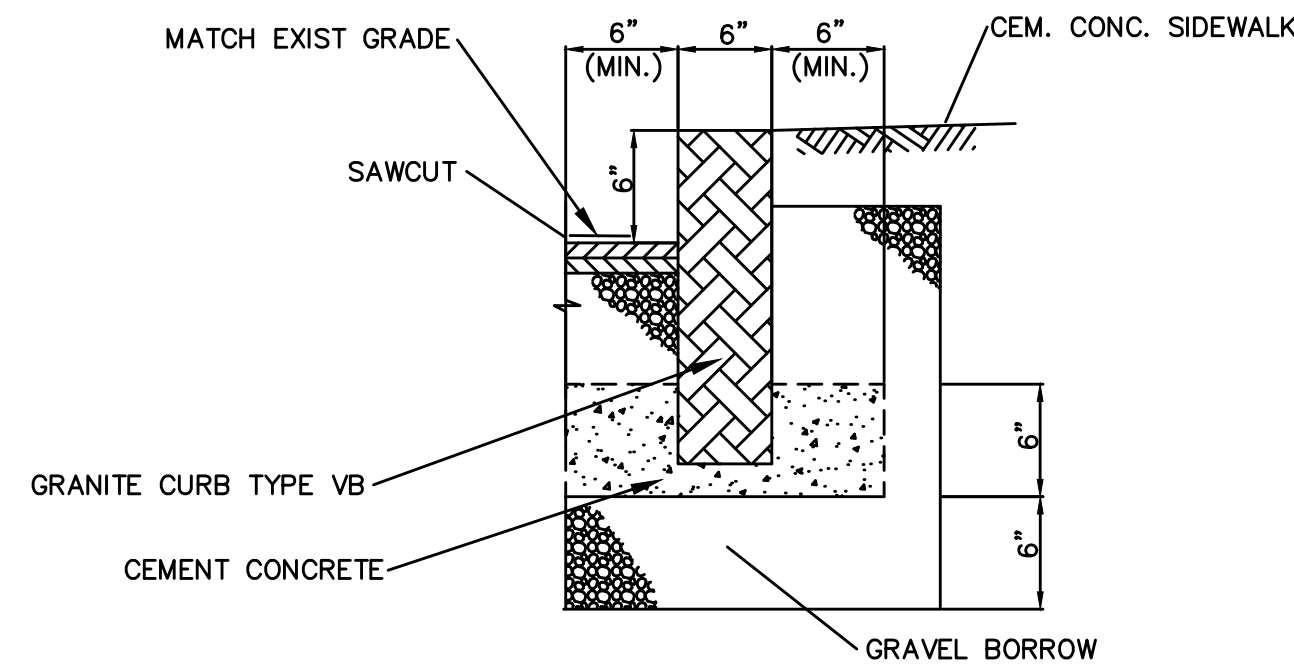
PROJ. No.: 20100916.K62
DATE: 03/15/2024

CD-101



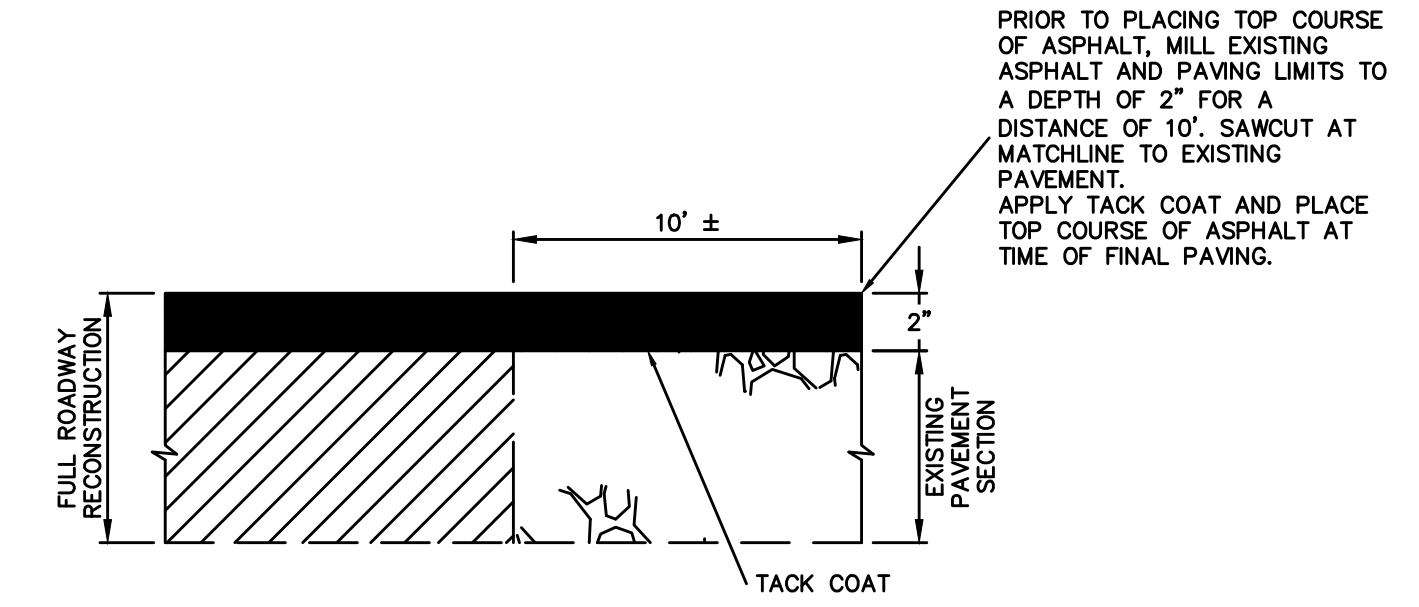
- NOTES:**
1. PROVIDE DEEP DUMMY JOINT EVERY 5' (1/3 DEPTH OF SLAB).
 2. REPLACE 1/4" EXPANSION JOINT IF EXISTING JOINT FALLS WITHIN RECONSTRUCTION.

CONCRETE SIDEWALK
SCALE: N.T.S.

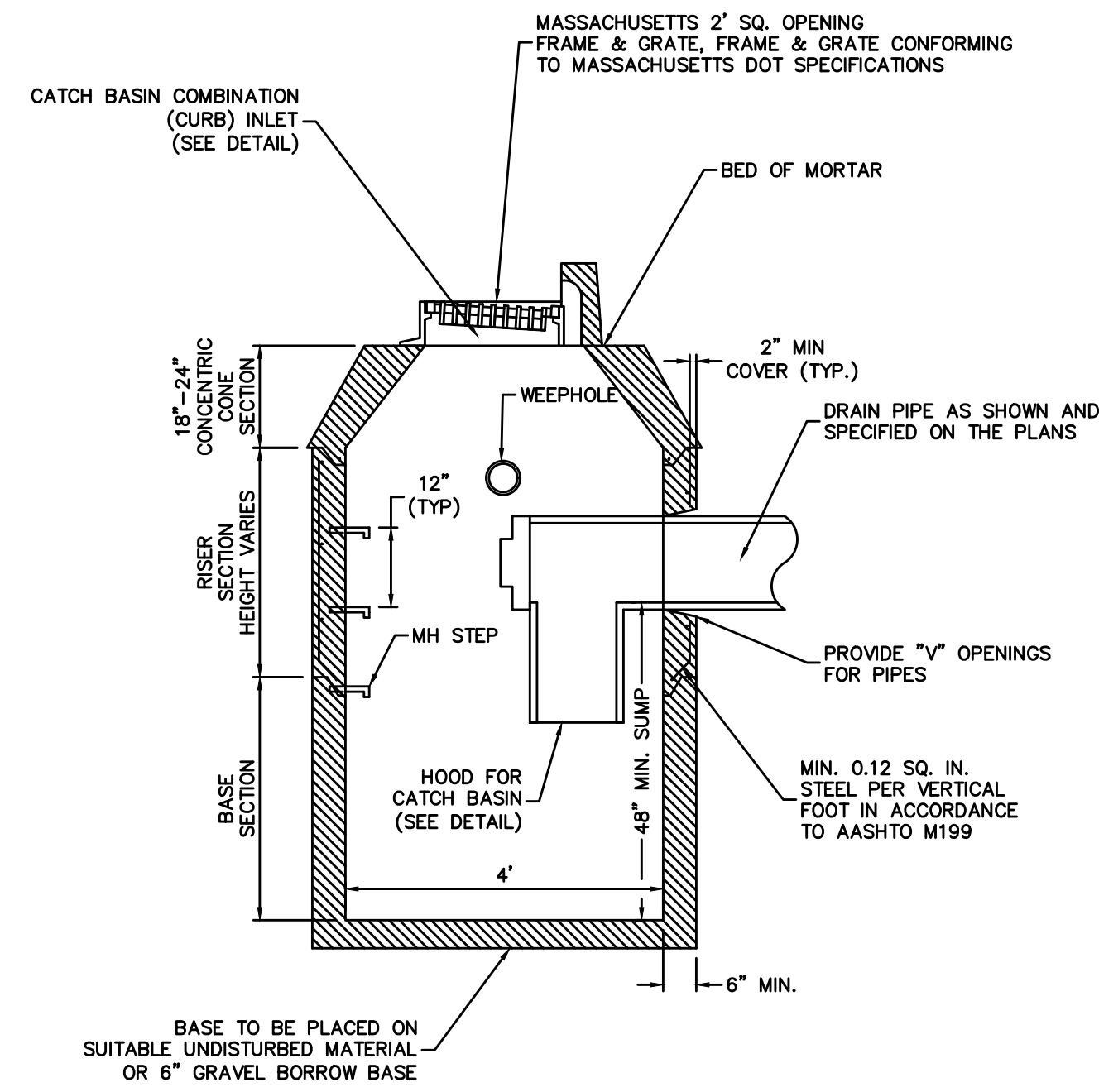


- NOTES:**
1. LENGTH OF CURB VARIES TO FIT RADIUS, 2 FT. MIN.
 2. ENDS SHALL BE SQUARE TO TOP AND RADIAL TO FACE.
 3. BUTT ENDS TOGETHER AS CLOSE AS POSSIBLE. MAXIMUM SPACE OF 1/2" ALLOWED. 8" DOWN FROM TOP. JOINT SHALL BE MORTARED FULL DEPTH.
 4. 1/2" EXPANSION JOINT EVERY 50± FEET.
 5. CURBS TO BE SET ON A RADIUS OF 100 FEET OR LESS SHALL BE CUT TO THE CURVE REQUIRED, AND THEIR ENDS CUT ON RADIAL LINES.
 6. SAWCUT SHALL BE 6" FROM THE PROPOSED FACE OF CURB.

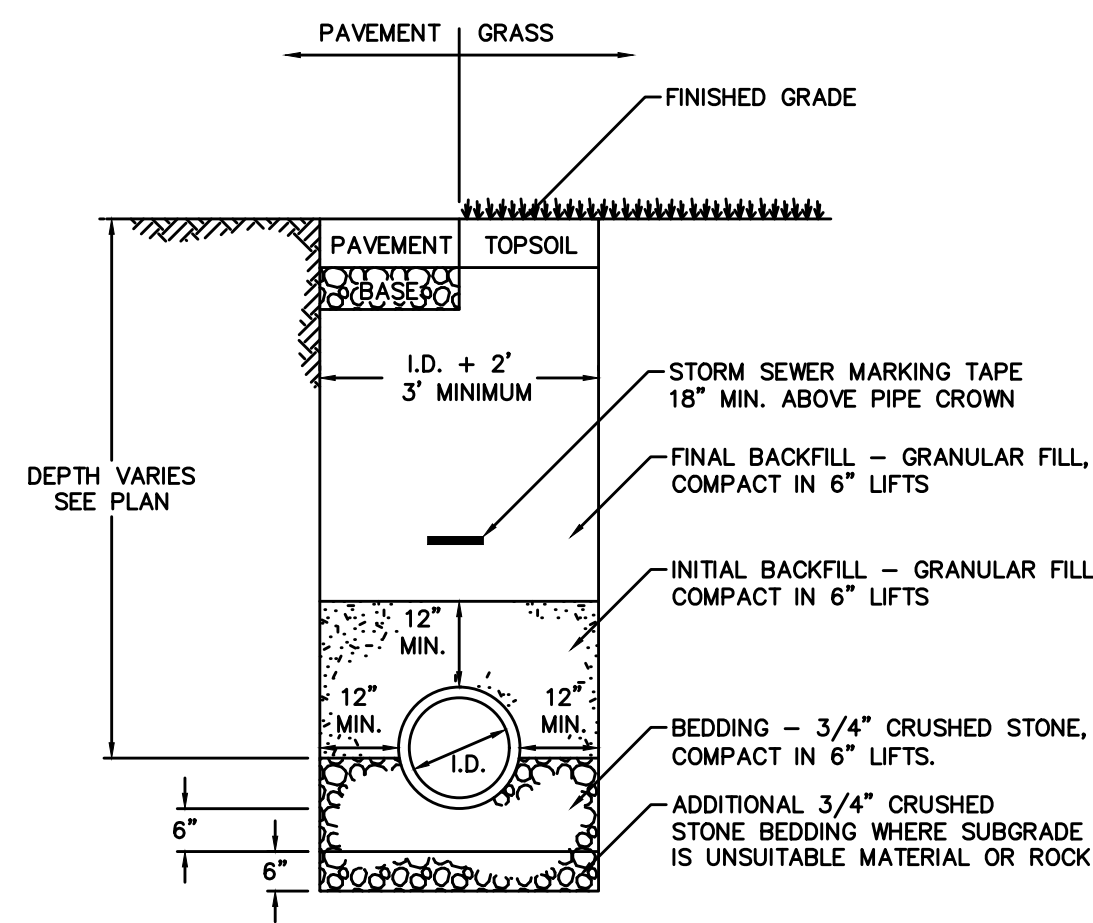
GRANITE CURB
SCALE: N.T.S.



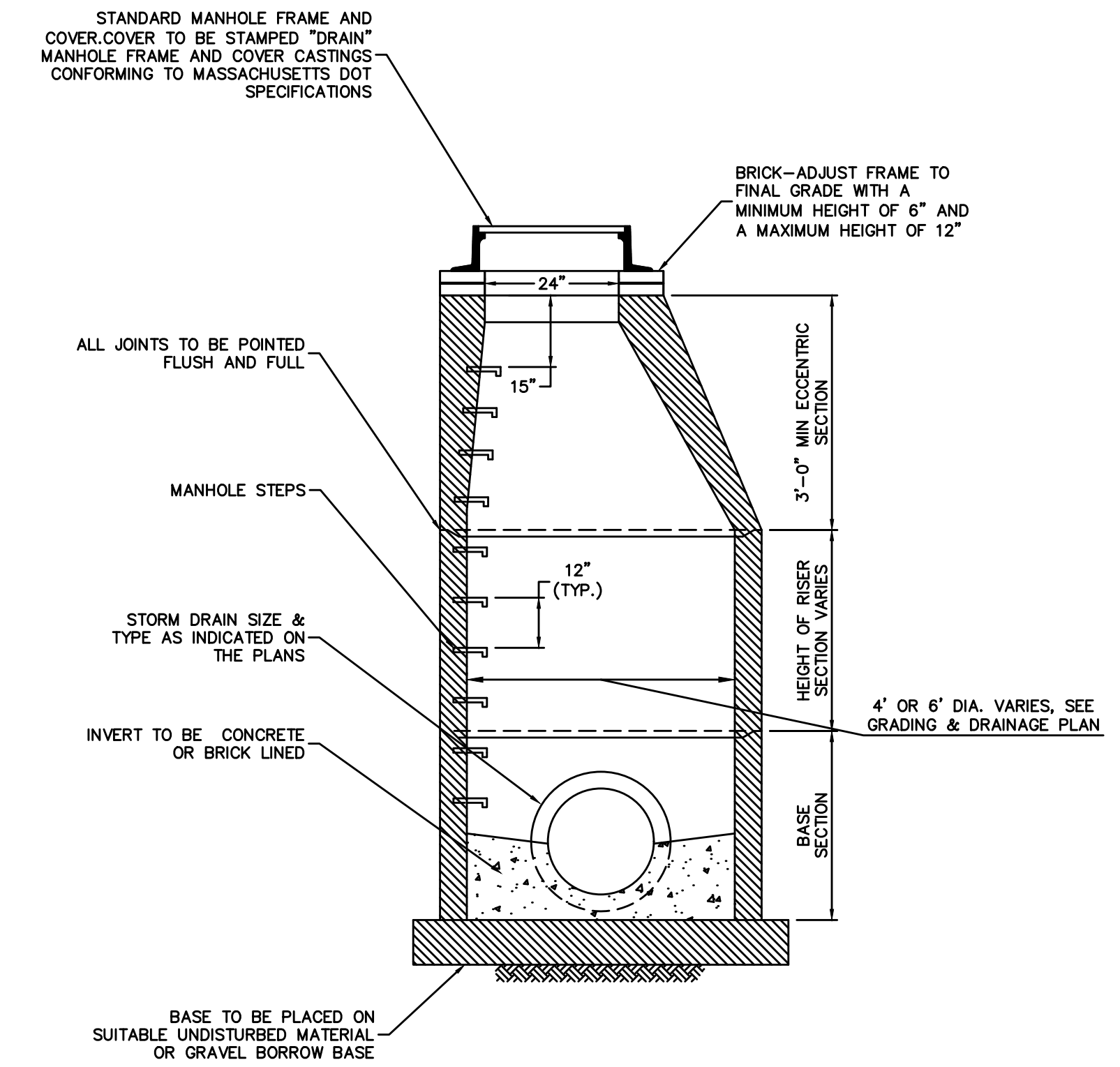
PAVEMENT MATCHING DETAIL AT PROJECT LIMITS
SCALE: N.T.S.



PRECAST CONCRETE CATCH BASIN WITH COMBINATION (CURB) INLET
SCALE: N.T.S.



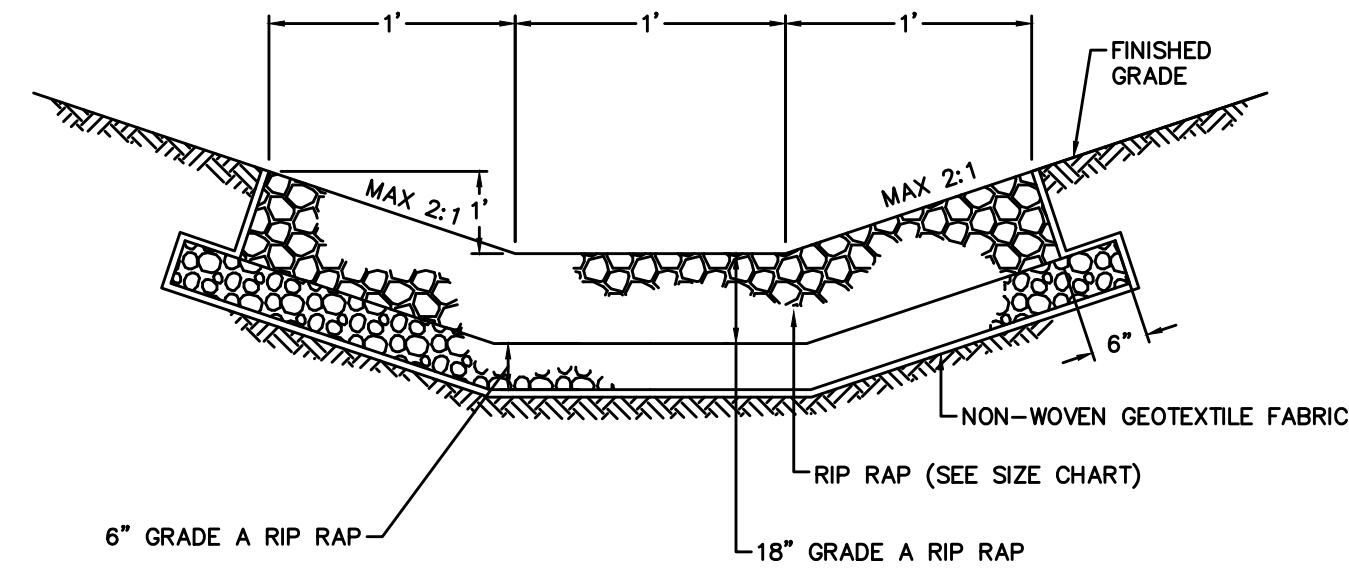
STORMWATER DRAINAGE TRENCH
SCALE: N.T.S.



DRAINAGE MAHNOLE
SCALE: N.T.S.

DESIGNER REVIEWER	
DATE	
No.	
3/15/24	
SCALE: HORIZ.: 1" = 20'	VERT.: -
DATUM:	HORIZ.: -
VERT.: -	VERT.: -
FUSS & O'NEILL 155 MAIN STREET, SUITE 400 PITTSFIELD, MA 01105 413.452.0445 www.fandoinc.com	
CITY OF PITTSFIELD	MASSACHUSETTS
CONSTRUCTION DETAILS PECKS ROAD OVER ONOTA BROOK PITTSFIELD	
PROJ. No.: 20100916.K62 DATE: 03/15/2024	
CD-102	

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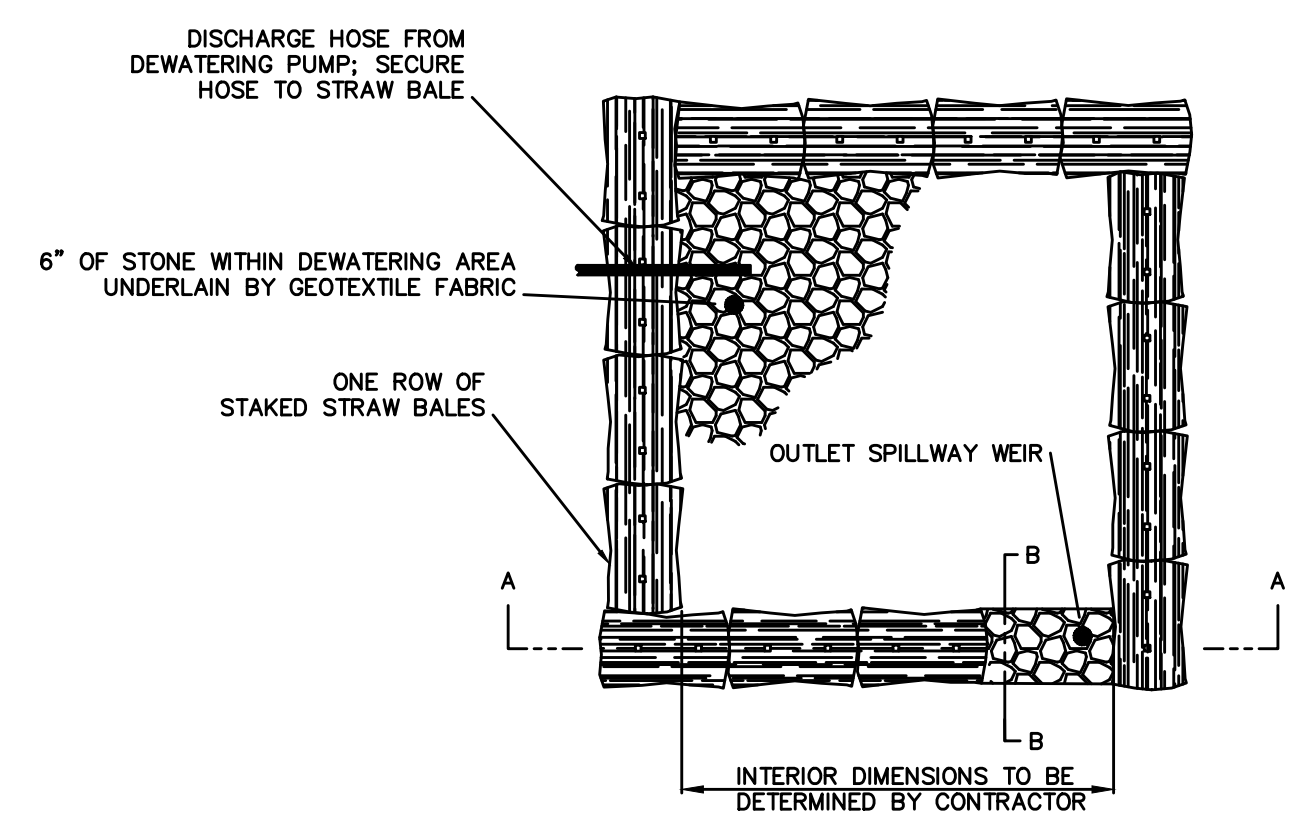


6" GRADE A RIP RAP

STONE SIZE	% WEIGHT
10"	0
6"	20-50
4"	30-60
2"	30-40
1-2"	10-20
<1"	0-10

DUMPED RIP RAP
 PER M.H.D. STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, SECTION M2.02.2

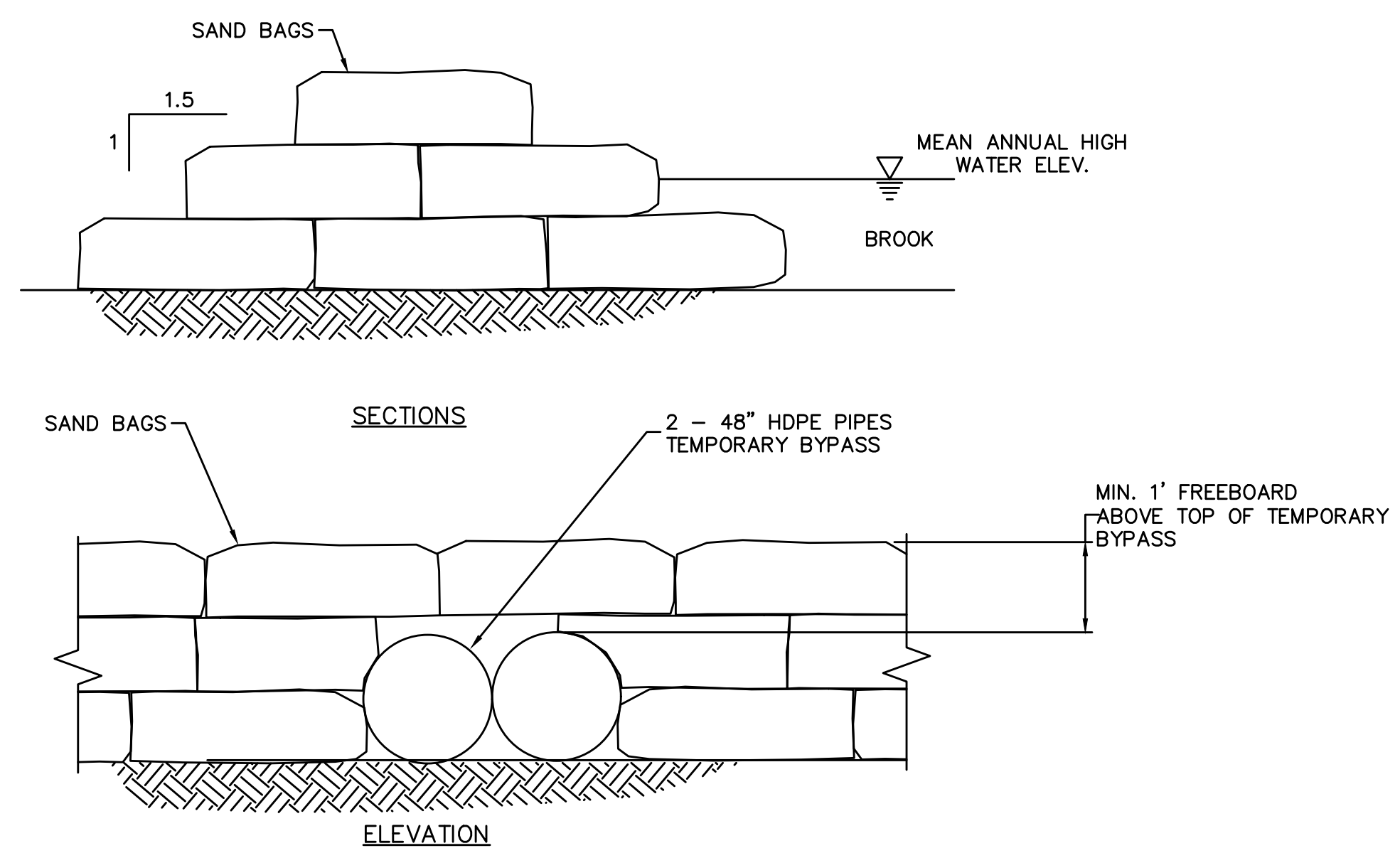
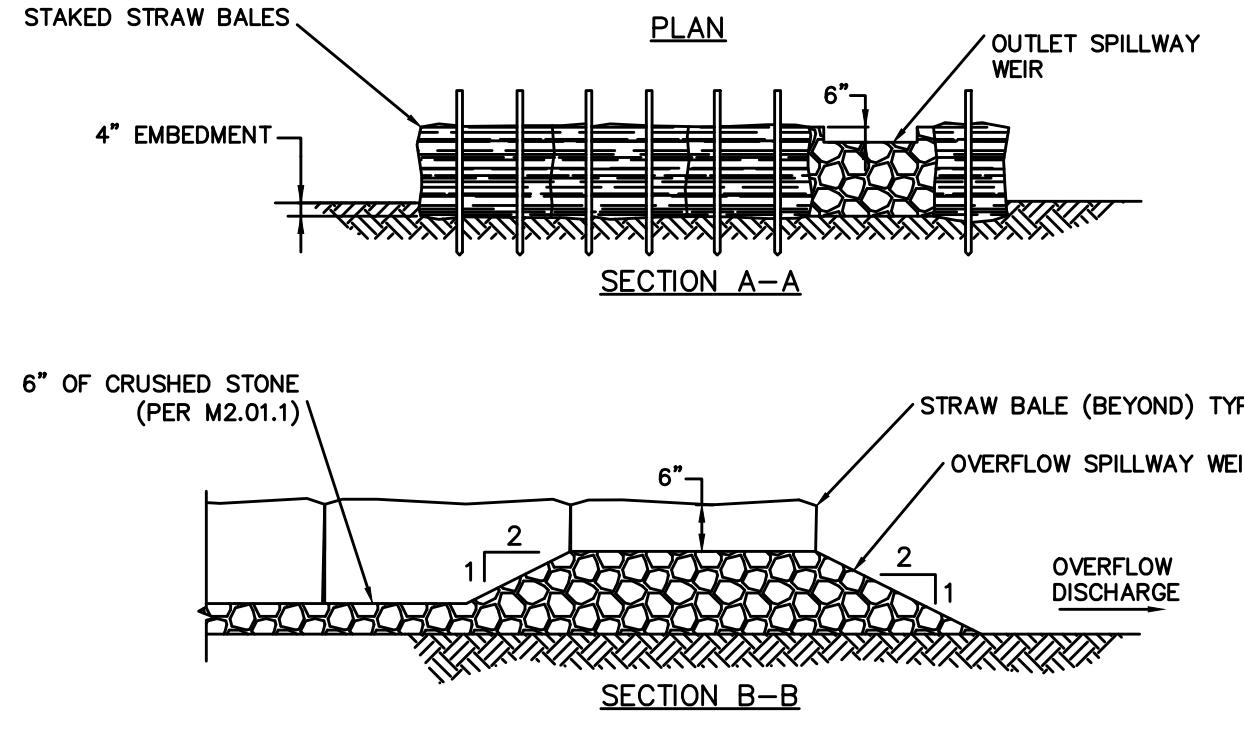
3' WIDE STONE LINED WATERWAY
 SCALE: N.T.S.



SIZING FORMULA:
 CUBIC FT. OF REQUIRED STORAGE =
 PUMP DISCHARGE RATE (GPM) x 16

- NOTES:**
1. STRAW BALES FOR EROSION CONTROL SHALL CONFORM TO SECTION 767 OF THE STANDARD SPECIFICATIONS INCLUDING MATERIALS AND CONSTRUCTION METHODS.
 2. BALES OF STRAW SHALL BE FASTENED WITH WIRE AND HAVE A MINIMUM SIZE OF 1'x1.5'x3'.
 3. STONE SHALL CONSIST OF 1-1/2 INCH STONE CONFORMING TO SUBSECTION M2.01.1 OF THE STANDARD SPECIFICATIONS.
 4. FILTER FABRIC SHALL CONFORM TO A TYPE 1 FABRIC AS INCLUDED WITHIN SECTION M9.50.0 OF THE STANDARD SPECIFICATIONS.

TEMPORARY CONSTRUCTION DEWATERING DISCHARGE SETTLING BASIN
 SCALE: N.T.S.



TEMPORARY COFFER DAM
 SCALE: N.T.S.

No.	DATE	DESCRIPTION	DESIGNER/REVIEWER



3/15/24

SCALE:	HORZ.: 1" = 20'	VERT.: -
DATUM:	HORZ.: -	VERT.: -

GRAPHIC SCALE

FUSS & O'NEILL
 155 MAIN STREET, SUITE 400
 STURBRIDGE, MA 01561
 413.452.0445
 www.fandoo.com

CITY OF PITTSFIELD
 CONSTRUCTION DETAILS
 PECKS ROAD OVER ONOTA BROOK
 MASSACHUSETTS
 PITTSFIELD

PROJ. No.: 20100916.K62
 DATE: 03/15/2024

CD-103

DESIGN
IN ACCORDANCE WITH THE 2020 AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD DESIGN SPECIFICATIONS, 9TH EDITION (2020), FOR HL-93 LOADING.

REVIEW AND APPROVALS - CHAPTER 85 SECTION 35:
IN ACCORDANCE AND COMPLIANCE WITH THE REQUIREMENTS OF CHAPTER 85 SECTION 35 OF MASSACHUSETTS GENERAL LAWS, THE CONTRACTOR SHALL SUBMIT TO THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION ALL CONSTRUCTION DRAWINGS AND DESIGN CALCULATIONS THAT SHALL BE USED TO FABRICATE AND CONSTRUCT THE PRECAST RIGID FRAME STRUCTURE DENOTED ON THESE PLANS FOR REVIEW AND APPROVAL. THIS APPROVAL SHALL CONSTITUTE THE FINAL APPROVAL AS STIPULATED BY CHAPTER 85 SECTION 35 OF THE MASSACHUSETTS GENERAL LAWS.

THE CONTRACTOR SHALL SUBMIT THE FABRICATOR'S DESIGN CALCULATIONS AND SHOP DRAWINGS OF PRE-FABRICATED STRUCTURES TO FUSS & O'NEILL, INC. FOR REVIEW AND ACCEPTANCE. REVISIONS TO THE APPROVED PLANS SHALL ALSO BE SUBMITTED TO FUSS & O'NEILL, INC. AND MASSDOT FOR APPROVAL.

EXISTING CONDITIONS

ALL DIMENSIONS AND DETAILS SHOWN FOR THE EXISTING STRUCTURE ARE NOT GUARANTEED. THE CONTRACTOR SHALL DETERMINE AND ESTABLISH ALL DIMENSIONS AND DETAILS NECESSARY FOR COMPLETION OF ALL WORK BY FIELD MEASUREMENTS AND SURVEY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY AND ACCURACY THEREOF AND SHALL NOT ORDER ANY MATERIAL OR COMMENCE ANY FABRICATION UNTIL HE/SHE HAS MADE THE REQUIRED MEASUREMENT ON THE ACTUAL STRUCTURE AND THE EXTENT OF PROPOSED WORK HAS BEEN APPROVED BY THE ENGINEER. EXISTING STRUCTURE IS SHOWN THUS -----EXCEPT AS NOTED.

EXISTING BRIDGE PLANS AND SURVEY

EXISTING CONDITIONS DEPICTED ON THIS PLAN ARE BASED ON:

- A PLAN ENTITLED: SITE PLAN PREPARED FOR FUSS & O'NEILL, REVISED THROUGH MARCH 2, 2021, PREPARED BY GUNTLOW & ASSOCIATES, INC., 55 NORTH STREET, WILLIAMSTOWN, MASSACHUSETTS, DWG #C1.
- NOTES:
 - EXISTING SANITARY SEWER INVERTS AND RIMS ARE BASED ON A PLAN ENTITLED: LOWER PECKS ROAD SEWER CITY OF PITTSFIELD, MASSACHUSETTS AS BUILT PLAN & PROFILE 22-75-35+36, REVISED THROUGH: NOVEMBER 20, 1996, PREPARED BY SACKETT SURVEY SERVICES, INC., 142 OAK HILL ROAD, PITTSFIELD, MASSACHUSETTS. JOB # 17-01-94, SHEET NO. 5.
 - BASED ON FIELD OBSERVATIONS BY FUSS & O'NEILL, INC. ON MARCH 11, 2021.
- TOPOGRAPHIC ELEVATIONS ARE BASED ON NAVD 88 DATUM. HORIZONTAL DATUM IS MASSACHUSETTS STATE PLAN, NAD 83.
- WETLANDS WERE DELINEATED BY GUNTLOW & ASSOCIATES, INC. ON JUNE 26, 2019.
- THE SITE IS LOCATED WITHIN A ZONE A DESIGNATED AREA OF THE 100-YEAR FLOODPLAIN PER NATIONAL FLOOD INSURANCE PROGRAM, FIRM-FLOOD INSURANCE RATE MAP, CITY OF PITTSFIELD, MASSACHUSETTS, BERKSHIRE COUNTY, COMMUNITY PANEL 250037 0005C, MAP REVISED FEBRUARY 19, 1982. THE BASE FLOOD ELEVATIONS IMMEDIATELY UPSTREAM AND DOWNSTREAM OF THE CROSSING ARE 1024 AND 1023 (NGVD 29) RESPECTIVELY WHICH ARE EQUIVALENT TO APPROXIMATELY 1027.6 AND 1026.6 (NAVD 88). GIVEN THE VARIATION OF ±0.5 FEET IN THE CONVERSION FROM THE MAPPED NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29) TO THE CURRENT NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), THE APPROXIMATE LIMITS OF THE 100-YEAR FLOOD HAVE BEEN ESTIMATED TO COINCIDE WITH ELEVATION 1027 (NAVD 88).

SCALES NOTED ON THE PLANS ARE NOT APPLICABLE TO REDUCED SIZE PRINTS. DIVIDE SCALE BY 2 FOR HALF SIZE PRINTS.

FOUNDATIONS, UNSUITABLE MATERIAL AND UTILITIES

FOUNDATIONS MAY BE ALTERED, IF NECESSARY, TO SUIT CONDITIONS ENCOUNTERED DURING CONSTRUCTION, WITH THE APPROVAL OF THE ENGINEER. ALL UNSUITABLE MATERIAL SHALL BE REMOVED WITHIN THE LIMITS OF THE FOUNDATIONS OF THE STRUCTURE AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL LOCATE AND PROTECT FROM DAMAGE ALL EXISTING UTILITIES. IF IT IS SUSPECTED THAT ANY EXISTING STRUCTURAL STEEL MAY HAVE PROTECTIVE COATING THAT IS LEAD BASED, THE PAINT SHALL BE DISPOSED OF AT AN APPROVED DISPOSAL FACILITY BY THE CONTRACTOR.

REINFORCEMENT

REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 31 GRADE 60. UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DRAWINGS, ALL BARS SHALL BE LAPPED AS FOLLOWS:

REINFORCEMENT	#4 BARS	#5 BARS	#7 BARS	#8 BARS
1. NONE	21"	26"	32"	38"
2. 12" OF CONCRETE BELOW BAR	29"	36"	42"	49"
3. CLEAR SPACING < 6 db	31"	39"	45"	52"
4. CONDITION 2. AND 3.	35"	44"	49"	55"

IF THE ABOVE BARS ARE SPACED 6" OR MORE ON CENTER, THE LAP LENGTH SHALL BE 80% OF THE LENGTH GIVEN ABOVE. ALL OTHER BARS SHALL BE LAPPED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ALL REINFORCING BARS AND SUPPORTING DEVICES SHALL BE GALVANIZED, UNLESS OTHERWISE NOTED.

CONCRETE MIXES

	(1)	(2)	(3)	
4000	1 1/2	565		WINGWALL/ARCH FOOTING, CULVERT, APPROACH SLABS, LEVELING PAD, PEDESTALS
5000	2	685		HEADWALLS, GUARD RAIL TRANSITIONS, BASES, SIDEWALKS, CURB

- 28 DAY COMPRESSIVE STRENGTH (PSI)
- MAXIMUM AGGREGATE SIZE (IN)
- CEMENTITIOUS CONTENT (POUND/C.Y.)

UTILITIES

CONTRACTOR SHALL NOTIFY DIG-SAFE A MINIMUM OF 72 HOURS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR, AT HIS/HER OWN EXPENSE, ANY UNDERGROUND CABLES OR UTILITIES DAMAGED BY HIS/HER OPERATIONS INCLUDING ANY DAMAGE DONE DRIVING HIS/HER EQUIPMENT OVER EXISTING UNDERGROUND CABLES OR UTILITIES. THE CONTRACTOR SHALL PROTECT FROM DAMAGE OR RELOCATE AS NECESSARY ANY EXISTING UTILITY POLES. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE RESPECTIVE UTILITY OWNERS FOR ALL UTILITIES THAT ARE TO BE TEMPORARILY OR PERMANENTLY RELOCATED FOR THE BRIDGE REPLACEMENT WORK. OVERHEAD WIRES ARE TO BE MAINTAINED AND PROTECTED BY THE CONTRACTOR.

HYDRAULIC REPORT:

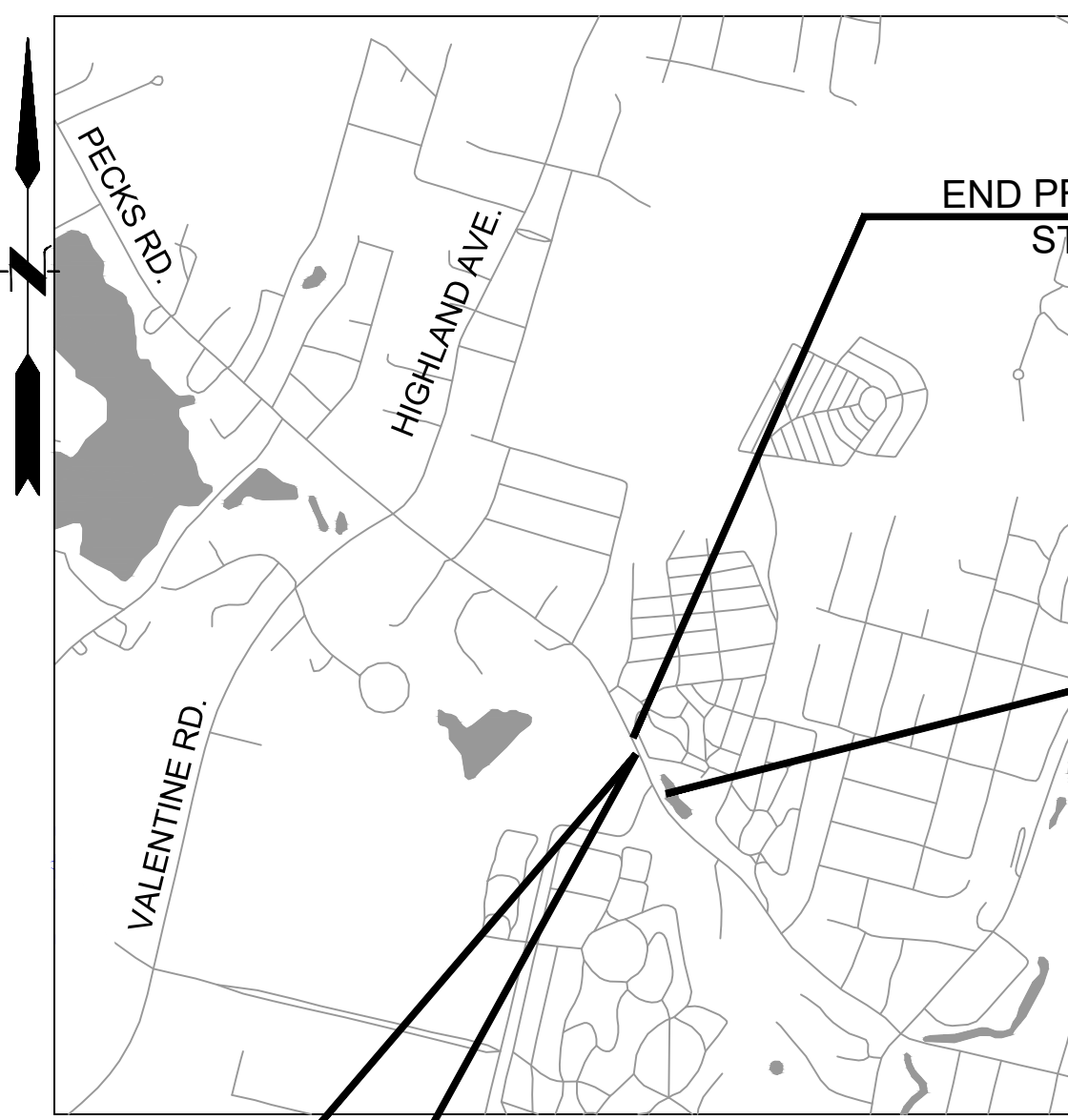
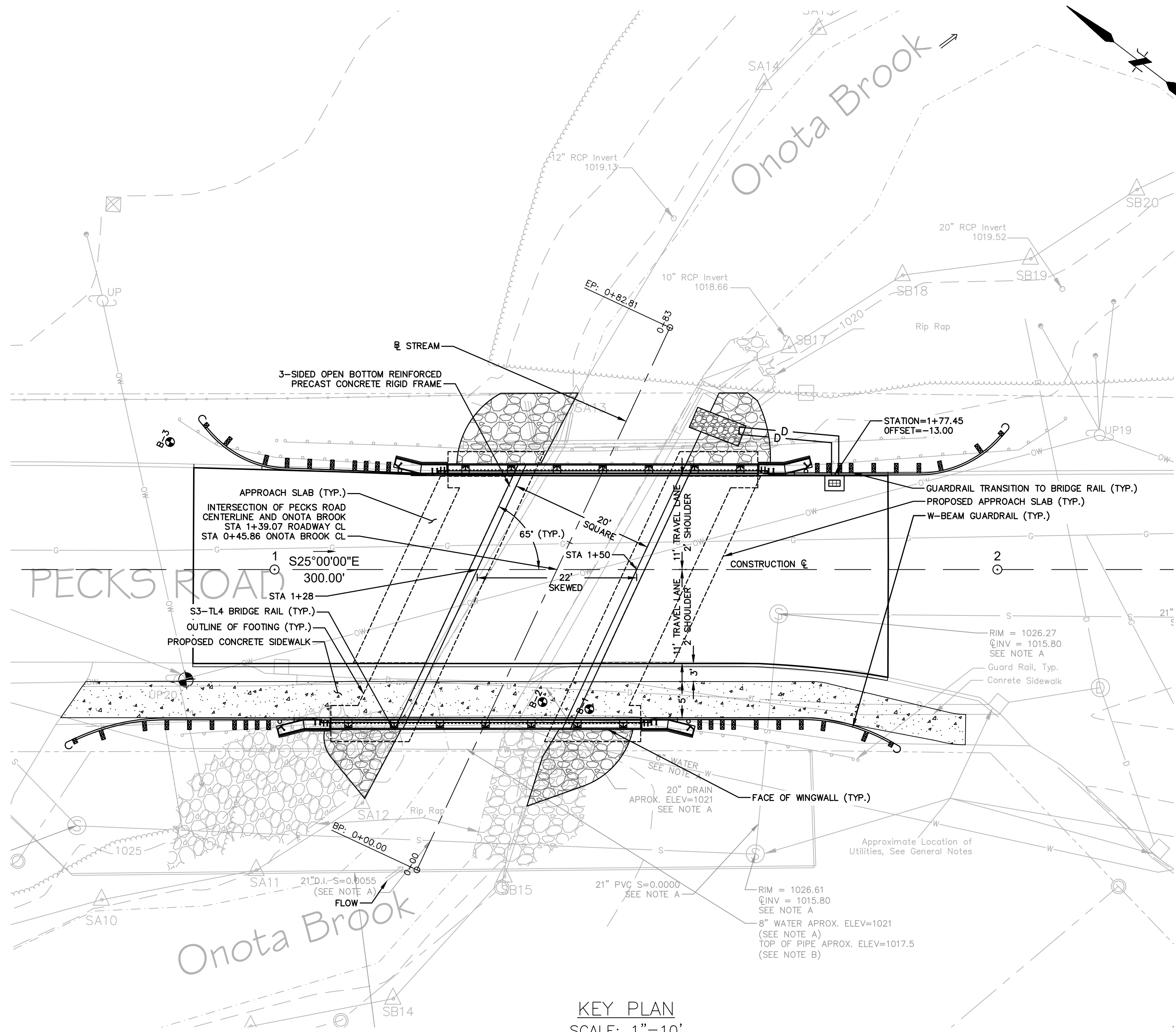
REFER TO HYDRAULIC REPORT DATED JULY 6, 2023, PREPARED BY FUSS AND O'NEILL.

GEOTECHNICAL REPORT:

REFER TO GEOTECHNICAL REPORT DATED JANUARY 5, 2024, PREPARED BY FUSS AND O'NEILL AND REVIEWED BY O'REILLY, TALBOT & OKUN.

GENERAL NOTES:

- ANY REVISIONS TO APPROVED PLANS, THE CONTRACTOR SHALL SUBMIT THESE CHANGES TO THE ENGINEER OF RECORD AND MASSDOT FOR REVIEW AND APPROVAL.
- THE CONTRACTOR MUST COORDINATE ALL WORK WITH THE CITY OF PITTSFIELD, THE ENGINEER AND ANY AFFECTED ABUTTERS. WORK SHALL NOT PROCEED WITHOUT WRITTEN APPROVAL FROM THE CITY OF PITTSFIELD.
- THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND LICENSES AND PAY ALL CHARGES AND FEES INCURRED. THE CONTRACTOR SHALL GIVE ALL NOTICES NECESSARY AND INCIDENT TO THE DUE AND LAWFUL PROSECUTION OF THE WORK AND SHALL COMPLY WITH ALL LAWS, AND OTHER BODIES HAVING JURISDICTION OVER THE WORK AND ENCOMPASSED BY THE CONTRACT.
- PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER SITE-SPECIFIC PLANS, INCLUDING ALL CONSTRUCTION, EROSION PREVENTION AND SEDIMENT CONTROL, AND MAINTENANCE DETAILS FOR PROVIDING TEMPORARY STREAM RELOCATION OR BYPASS AS SPECIFIED IN THE PLANS OR APPROVED BY THE ENGINEER. THE PLANS SHALL ADDRESS EROSION PREVENTION AND SEDIMENT CONTROL, CHANNEL MAINTENANCE, DEBRIS REMOVAL AND THE MATERIALS AND METHODS FOR DIVERTING THE EXISTING CROSSING.
- PLANS AND CALCULATIONS FOR WATER RETAINING AND DEWATERING MEASURES SHALL BE DEVELOPED BY THE CONTRACTOR, PREPARED AND STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE COMMONWEALTH OF MASSACHUSETTS AND SUBMITTED FOR THE REVIEW AND APPROVAL OF THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL DISPOSE OF ANY DEMOLITION DEBRIS, CONSTRUCTION DEBRIS, WOOD WASTES, CONTAMINATED SOILS, HAZARDOUS MATERIALS AND OTHER MATERIALS AND OTHER SPECIAL WASTES IN STRICT ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS.
- THE CONTRACTOR SHALL REVIEW SOIL STRATA CONDITIONS BELOW THE CULVERT FOOTINGS WITH THE GEOTECHNICAL ENGINEER PRIOR TO INSTALLATION.
- AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.



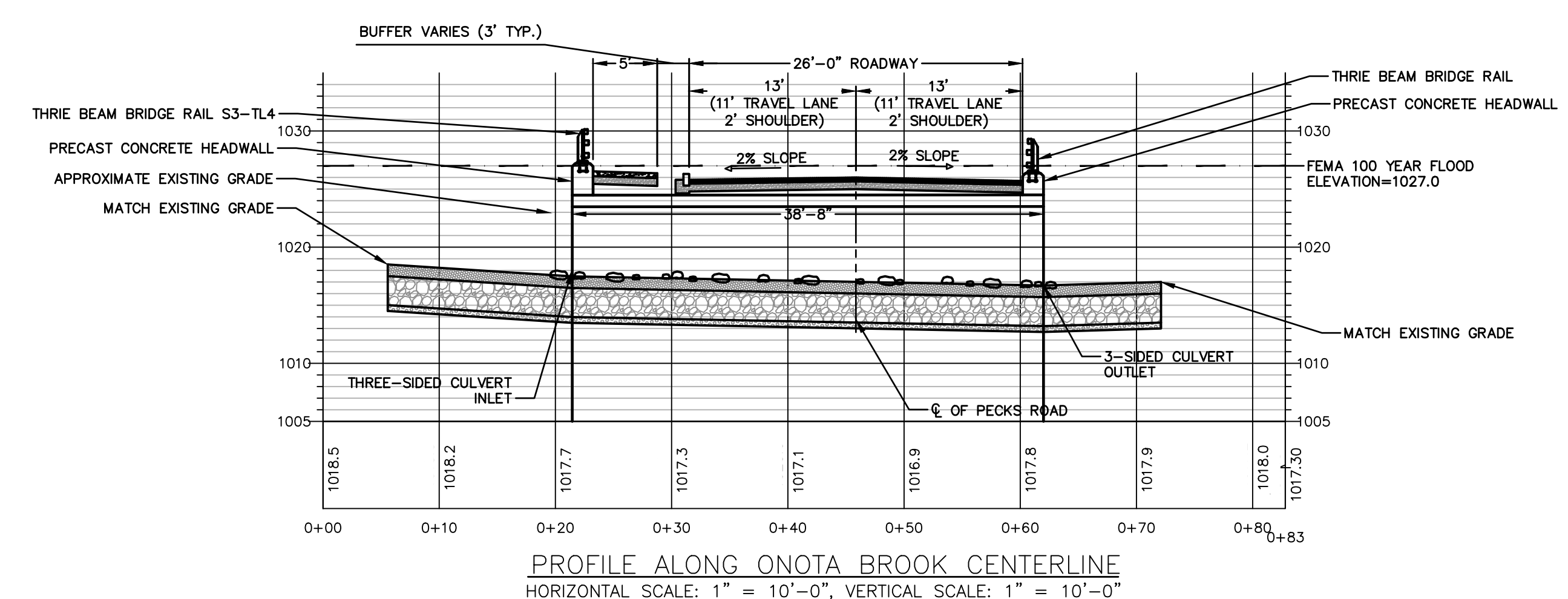
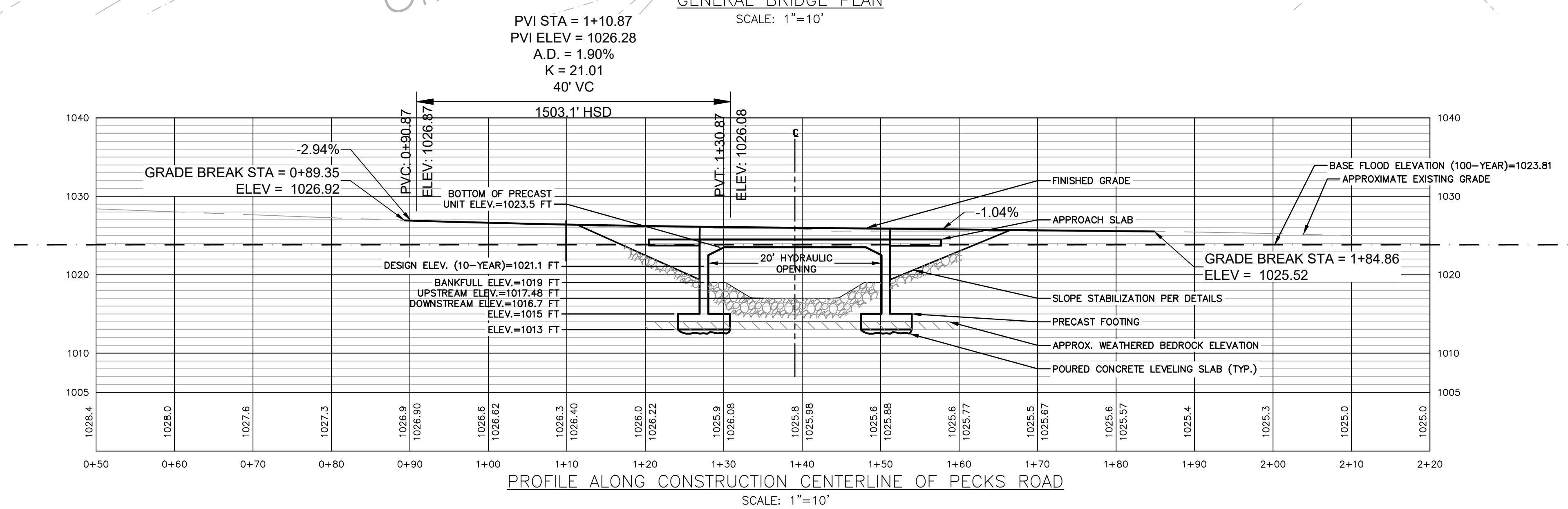
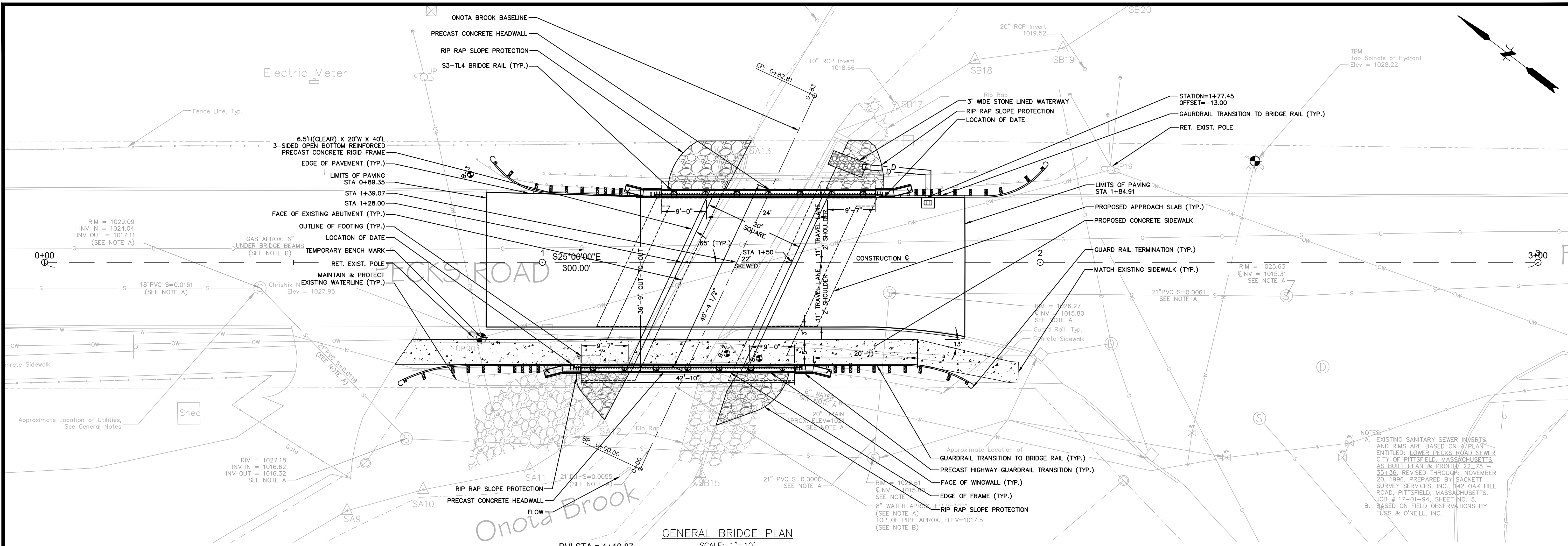
COMMONWEALTH OF MASSACHUSETTS
MassDOT, Highway Division
CONCEPTUAL DESIGN IS ACCEPTABLE
TO MASSDOT FOR CONTRACTING
[Signature]
STATE BRIDGE ENGINEER
2/6/2024
DATE

DATE	ISSUED FOR CONSTRUCTION
02/02/2024	PERMITTING
USE ONLY PRINTS OF LATEST DATE	

DESIGNER	REVIEWER
DATE	DESCRIPTION
No.	
 2/2/24	
 FUSS & O'NEILL 1550 MAIN STREET, SUITE 400 PITTSFIELD, MA 01105 www.fandn.com	
CITY OF PITTSFIELD	BRIDGE PLANS
BRIDGE NO. P-10-048	
PECKS ROAD OVER ONOTA BROOK, MASSACHUSETTS	
PROJ. No.: 20100916.K62	DATE: 01/05/2024
STR-01	

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 MS VIEW: LAYER STATE: PC3: AUTOCAD PDF (GENERAL DOCUMENTATION)PC3_STB:CTB: FOSTB



COMMONWEALTH OF MASSACHUSETTS
MassDOT, Highway Division
 CONCEPTUAL DESIGN IS ACCEPTABLE
 TO MASSDOT FOR CONTRACTING

MONTH DD, YYYY: 02/02/2024
 ISSUED FOR CONSTRUCTION PERMITTING
 USE ONLY PRINTS OF LATEST DATE

DESIGNER	REVIEWER
DATE	DESCRIPTION
No.	

2/2/24

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 VERT.: 1"=10'
 DATUM: NAVD83
 HORIZ.: 1"=10'
 VERT.: 1"=10'

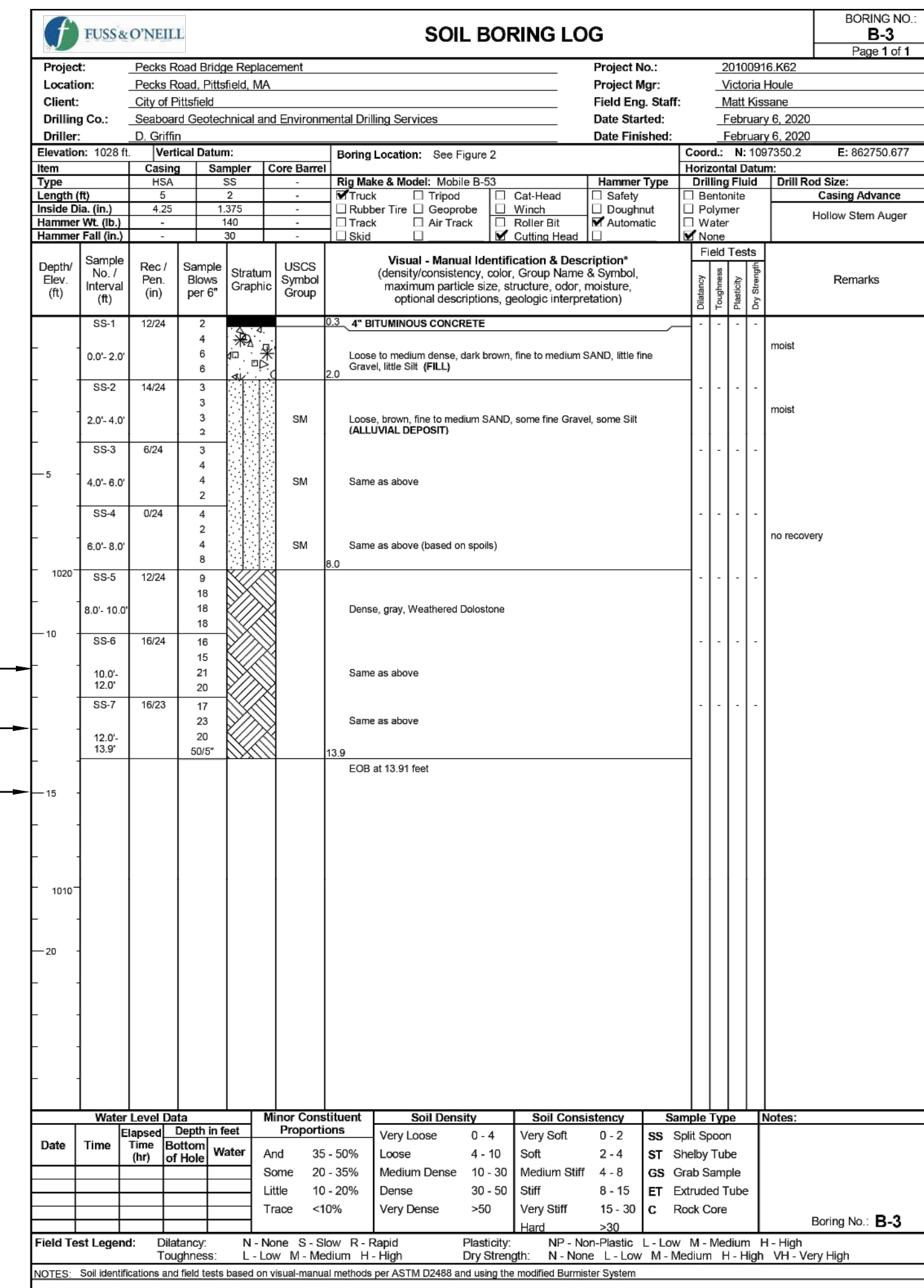
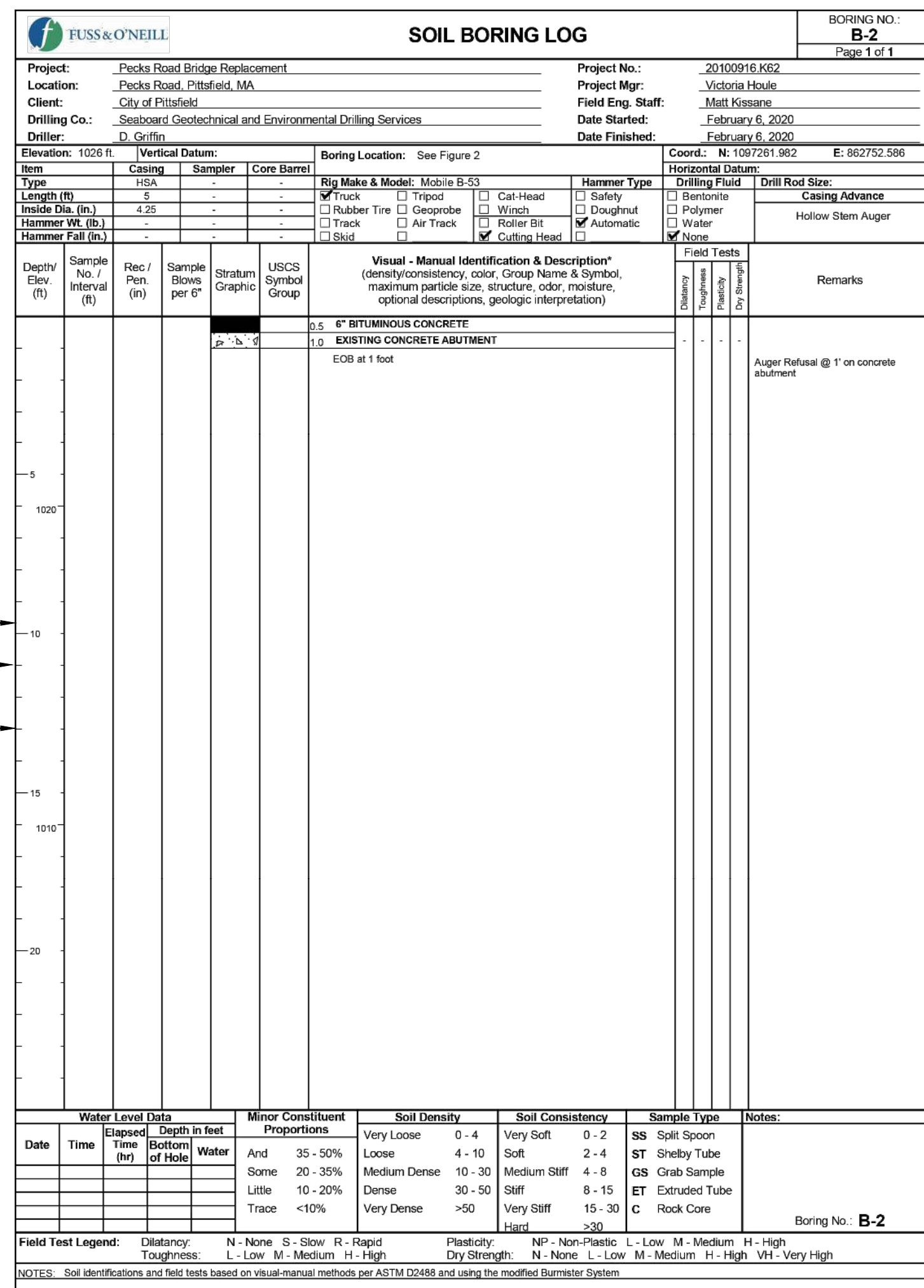
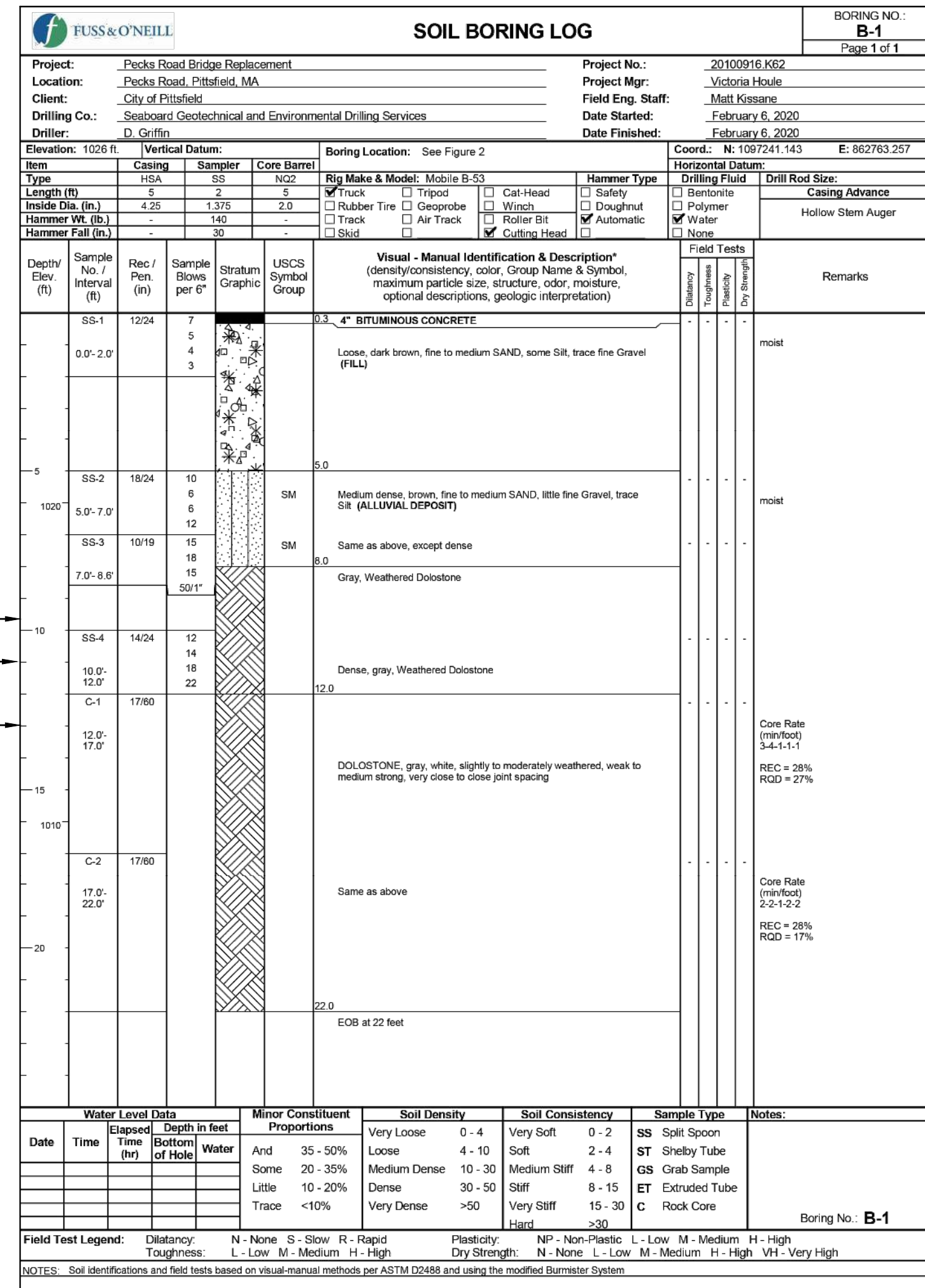
GRAPHIC SCALE

FUSS & O'NEILL
 1550 MAIN STREET, SUITE 400
 PITTSFIELD, MA 01205
 www.fandoh.com

CITY OF PITTSFIELD
 ENLARGED BRIDGE PLANS
 BRIDGE NO. P-10-048
 PECKS ROAD OVER ONOTA BROOK
 PITTSFIELD

PROJ. No.: 20100916.K62
 DATE: 01/05/2024

STR-02



SEISMIC DESIGN CRITERIA	
DESIGN RETURN PERIOD:	2
DESIGN SPECTRA	
As	0.069
SDs	0.155
SD1	0.067
SITE CLASS	C
SEISMIC DESIGN CATEGORY (SDC)	A

HYDRAULIC DESIGN DATA	
DRAINAGE AREA (SQ. MILES)	11
DESIGN FLOOD DISCHARGE (C.F.S.)	305
DESIGN FLOOD FREQUENCY (YEARS)	10
DESIGN FLOOD VELOCITY (F.P.S.)	5.3
DESIGN FLOOD ELEVATION (FEET, NAVD)	1021.1

BASE (100-YEAR) FLOOD DATA	
BASE FLOOD DISCHARGE (C.F.S.)	550
BASE FLOOD ELEVATION (FEET, NAVD)	1022.4

DESIGN AND CHECK SCOUR DATA	
DESIGN SCOUR FLOOD EVENT RETURN FREQUENCY (YEARS)	25
DESIGN FLOOD ABUTMENT SCOUR DEPTH (FEET)	0
DESIGN FLOOD PIER SCOUR DEPTH (FEET)	N/A
CHECK SCOUR FLOOD EVENT RETURN FREQUENCY (YEARS)	50
CHECK FLOOD ABUTMENT SCOUR DEPTH (FEET)	0.0
CHECK FLOOD PIER SCOUR DEPTH (FEET)	N/A

FLOOD OF RECORD	
DISCHARGE (C.F.S.)	UNKNOWN
FREQUENCY (IF KNOWN, YEARS)	UNKNOWN
MAXIMUM ELEVATION (FEET, NAVD)	UNKNOWN
DATE (MM/YYYY)	UNKNOWN
HISTORY OF ICE FLOES	UNKNOWN
EVIDENCE OF SCOUR AND EROSION	NONE

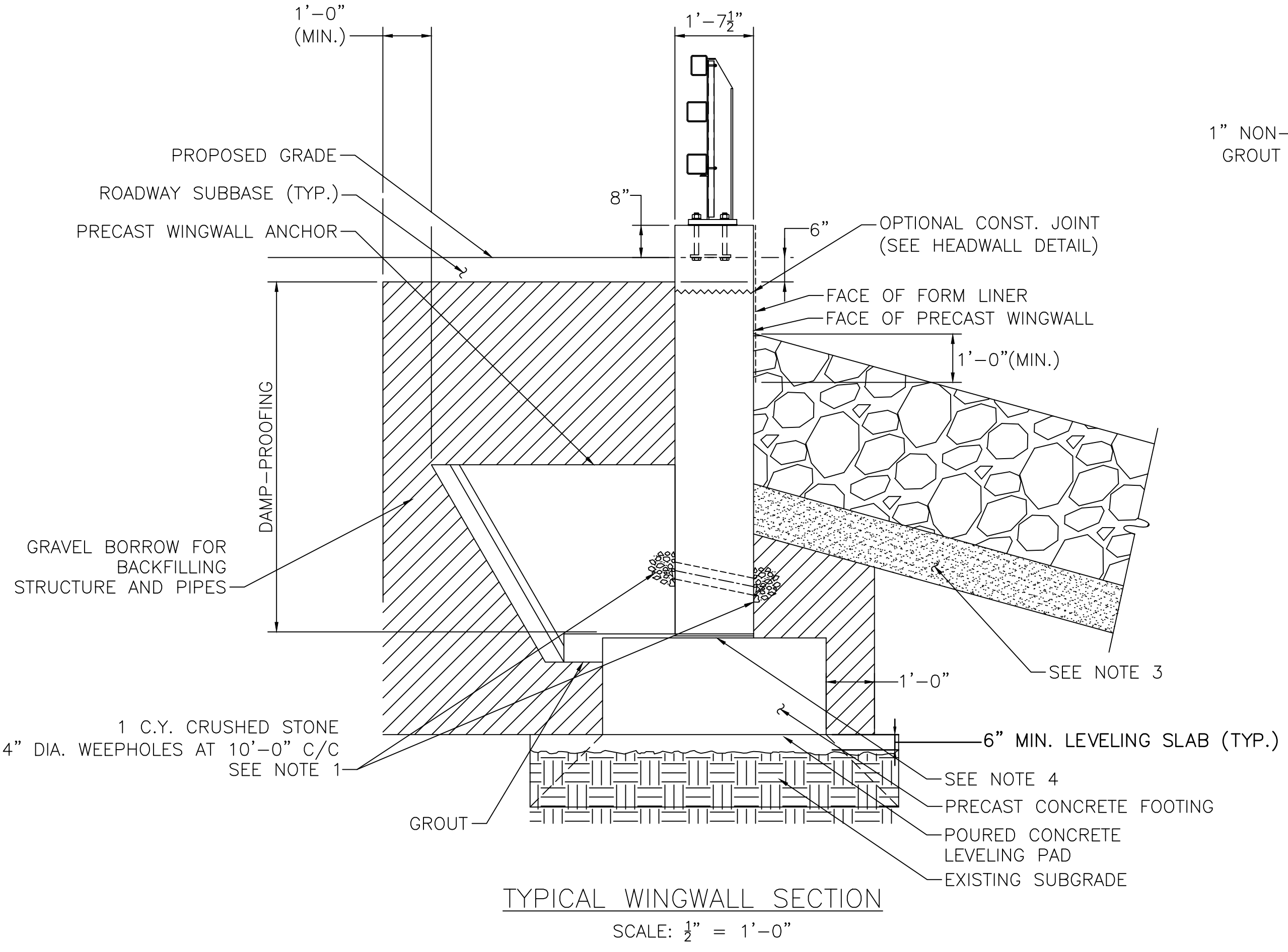
BORING NOTES:

- LOCATION OF BORINGS SHOWN ON THE PLANS THUS: BB-#
- BORINGS ARE TAKEN FOR PURPOSE OF DESIGN AND SHOW CONDITIONS AT BORING POINTS ONLY, BUT DO NOT NECESSARILY SHOW THE NATURE OF THE MATERIALS TO BE ENCOUNTERED DURING CONSTRUCTION.
- WATER LEVELS SHOWN ON THE BORING LOGS WERE OBSERVED AT THE TIME OF TAKING BORINGS AND DO NOT NECESSARILY SHOW THE TRUE GROUND WATER LEVEL.
- FIGURES IN COLUMNS INDICATE NUMBER OF BLOWS REQUIRED TO DRIVE A 1 1/8" I.D. SPLIT SPOON SAMPLER 6" USING A 140 POUND WEIGHT FALLING 30".
- ALL BORINGS WERE MADE IN FEBRUARY 2020.
- BORINGS WERE MADE BY SEABOARD GEOTECHNICAL AND ENVIRONMENTAL DRILLING SERVICES, INC., P.O. BOX 3026, SPRINGFIELD, MA 01101
- THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988 IS USED THROUGHOUT.
- WATER NOT OBSERVED DURING BORING.

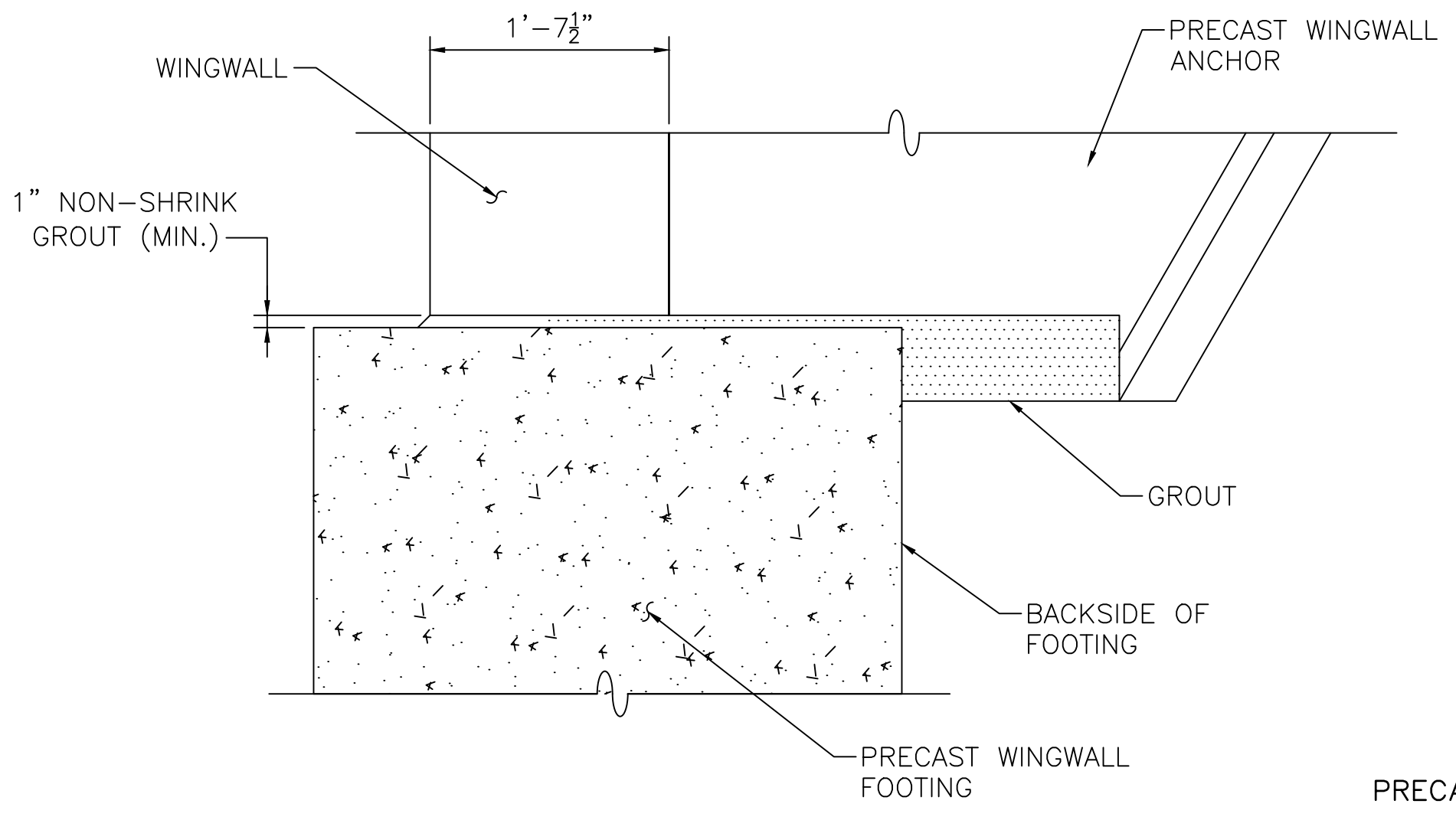
COMMONWEALTH OF MASSACHUSETTS
 MassDOT, Highway Division
 CONCEPTUAL DESIGN IS ACCEPTABLE
 TO MASSDOT FOR CONTRACTING
 [Signature] 2/6/2024
 STATE BRIDGE ENGINEER DATE

MONTH DD, YYYY ISSUED FOR CONSTRUCTION
 02/02/2024 PERMITTING
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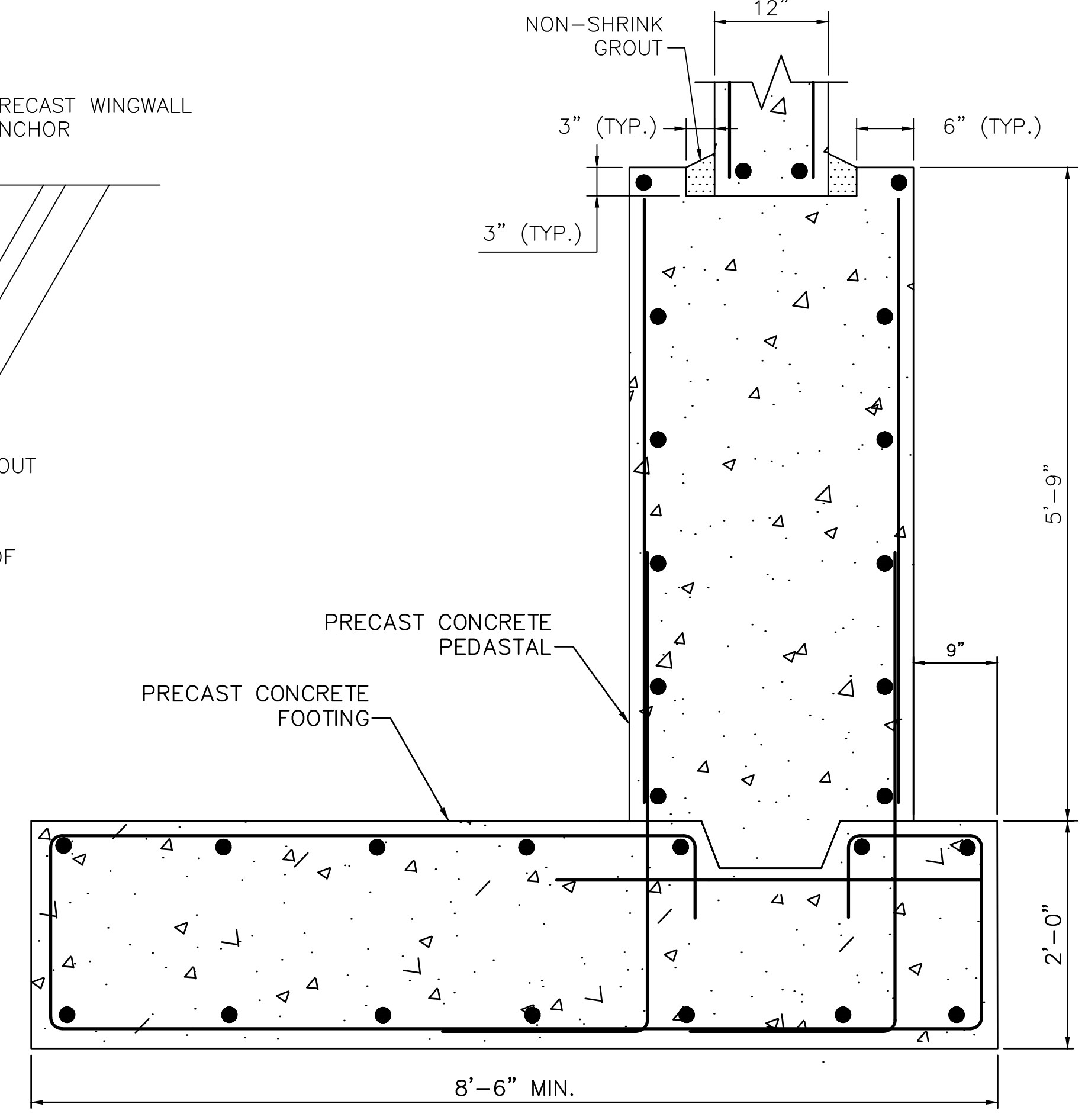
DESIGNER REVIEWER
 DESCRIPTION
 DATE
 No.
 COMMONWEALTH OF MASSACHUSETTS
 DANIEL P. DELANEY
 CIVIL ENGINEER
 REG. NO. 43477
 2/2/24
 SCALE: HORIZ.: VERT.: DATUM: VERT.: GRAPHIC SCALE
 CITY OF PITTSFIELD
 BORING LOGS
 BRIDGE NO. P-10-048
 PECKS ROAD OVER ONOTA BROOK
 PITTSFIELD MASSACHUSETTS
 PROJ. No.: 20100916.K62
 DATE: 01/05/2024
STR-03



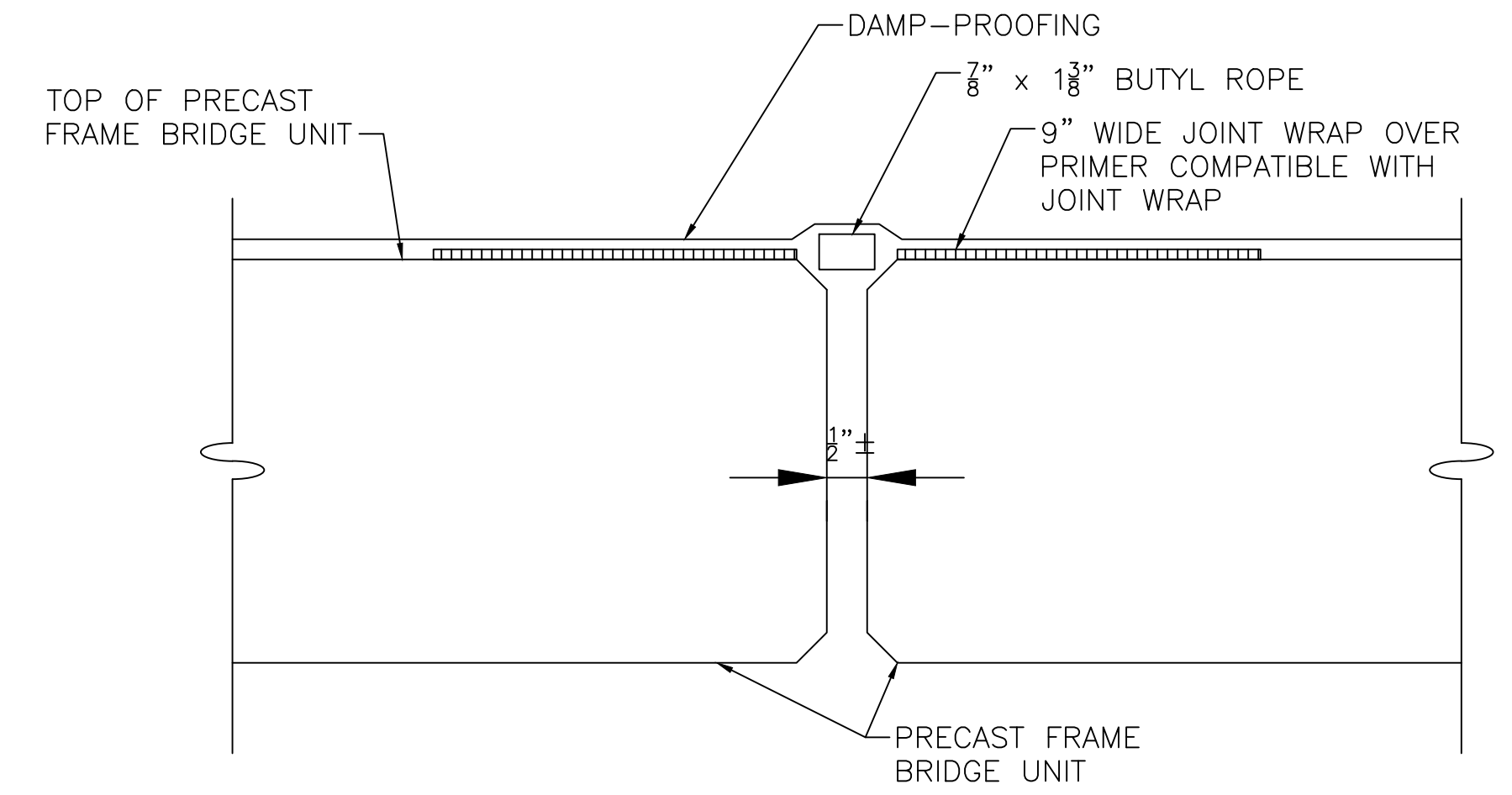
TYPICAL WINGWALL SECTION
SCALE: 1/2" = 1'-0"



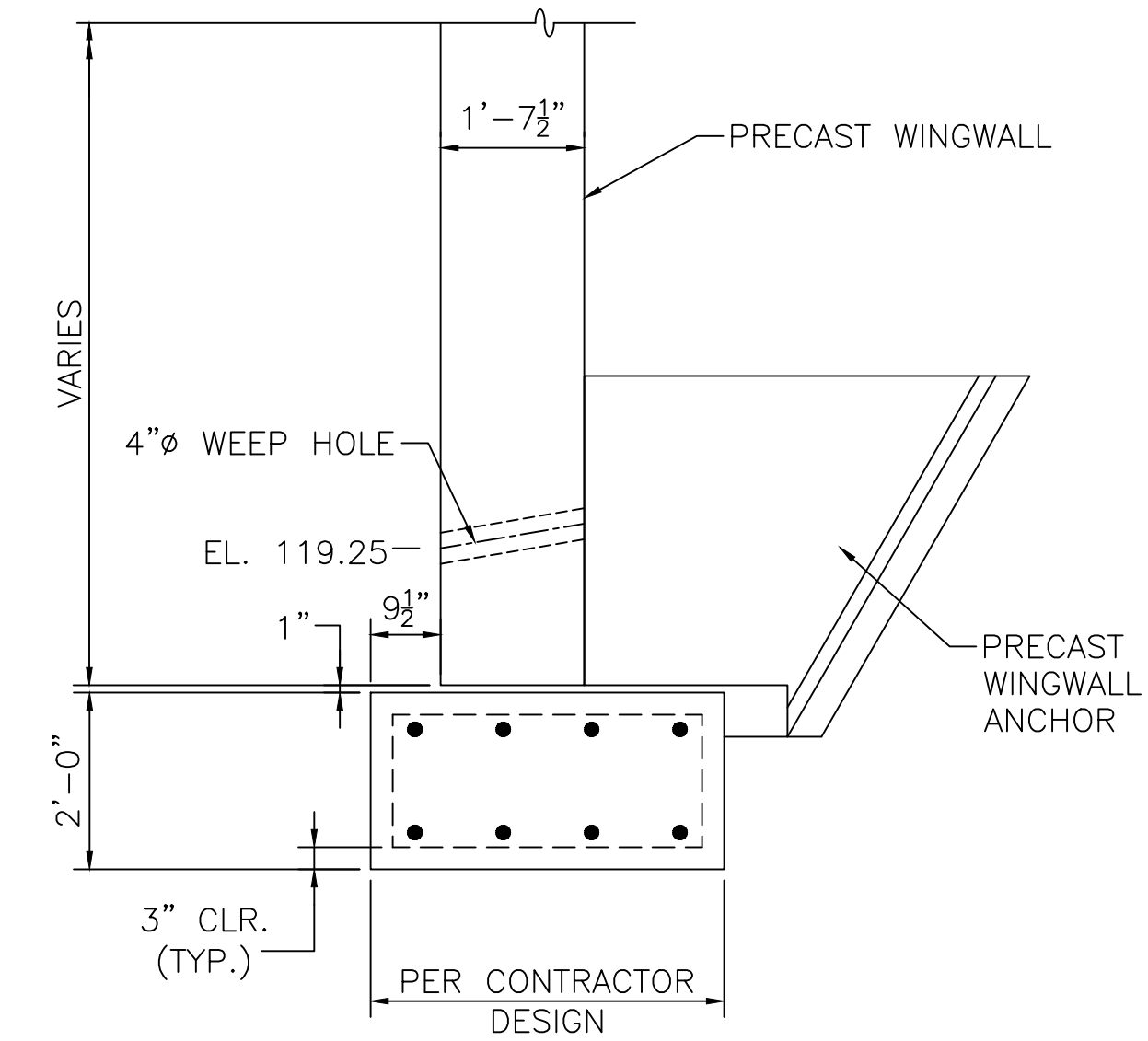
WINGWALL TYPICAL GROUT DETAIL
SCALE: 1" = 1'-0"



TYPICAL PRECAST RIGID FRAME FOOTING DETAIL
SCALE: 1" = 1'-0"



TYPICAL JOINT SEAL DETAIL
SCALE: 3" = 1'-0"



PRECAST WINGWALL TYPICAL FOOTING SECTION
SCALE: 1/2" = 1'-0"

- NOTES:
- 4" ϕ WEEP HOLES 10'-0" O.C. LOCATED 12" ABOVE THE HEEL OF THE FOOTING SLOPING 1" PER FOOT TOWARDS THE FRONT FACE. PROVIDE 1 CUBIC YARD OF CRUSHED STONE AT EACH END OF WEEP HOLE.
 - SET PRECAST FOUNDATIONS ON TOP OF MINIMUM 6" LEVELING SLAB.
 - SEE RIPRAP DETAIL FOR RIPRAP AT FACE OF WINGWALL REQUIREMENTS.
 - CONTRACTOR SHALL PROVIDE ANY REQUIRED LEVELING SCREWS OR SHIMS (1" MAX) FOR ERECTION. JOINT TO BE FILLED WITH NON-SHRINK GROUT AFTER FULL PLACEMENT OF PRECAST SECTION.
 - THE RIGID FRAME FACTORED BEARING PRESSURE=8.4 KSF AS PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS STRENGTH I LOAD COMBINATION. NOMINAL BEARING RESISTANCE =19 KSF. FACTORED BEARING RESISTANCE =8.5 KSF (THE PRODUCT OF THE NOMINAL BEARING RESISTANCE AND A RESISTANCE FACTOR OF 0.45).

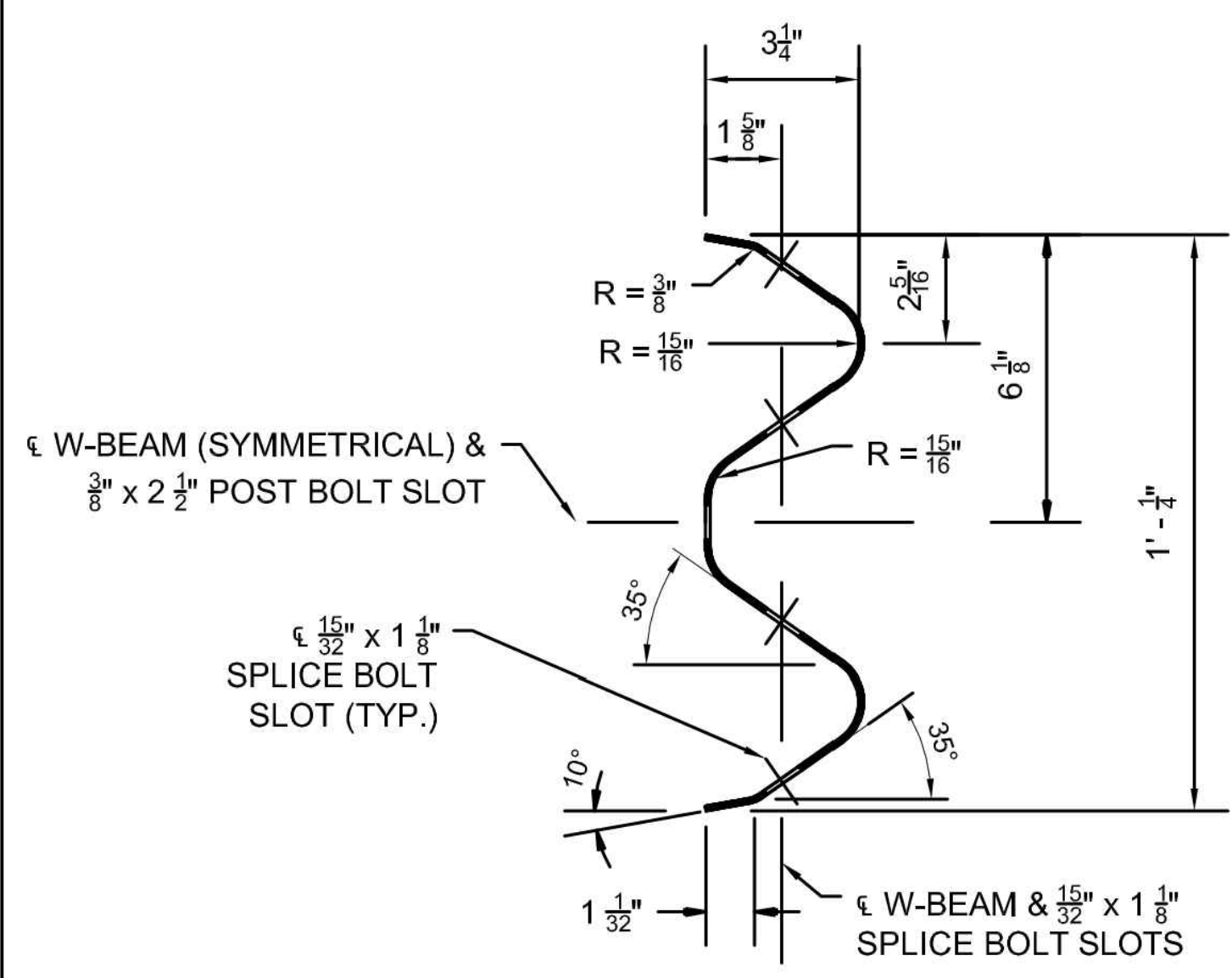
COMMONWEALTH OF MASSACHUSETTS
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[Signature]
STATE BRIDGE ENGINEER DATE 2/16/2024

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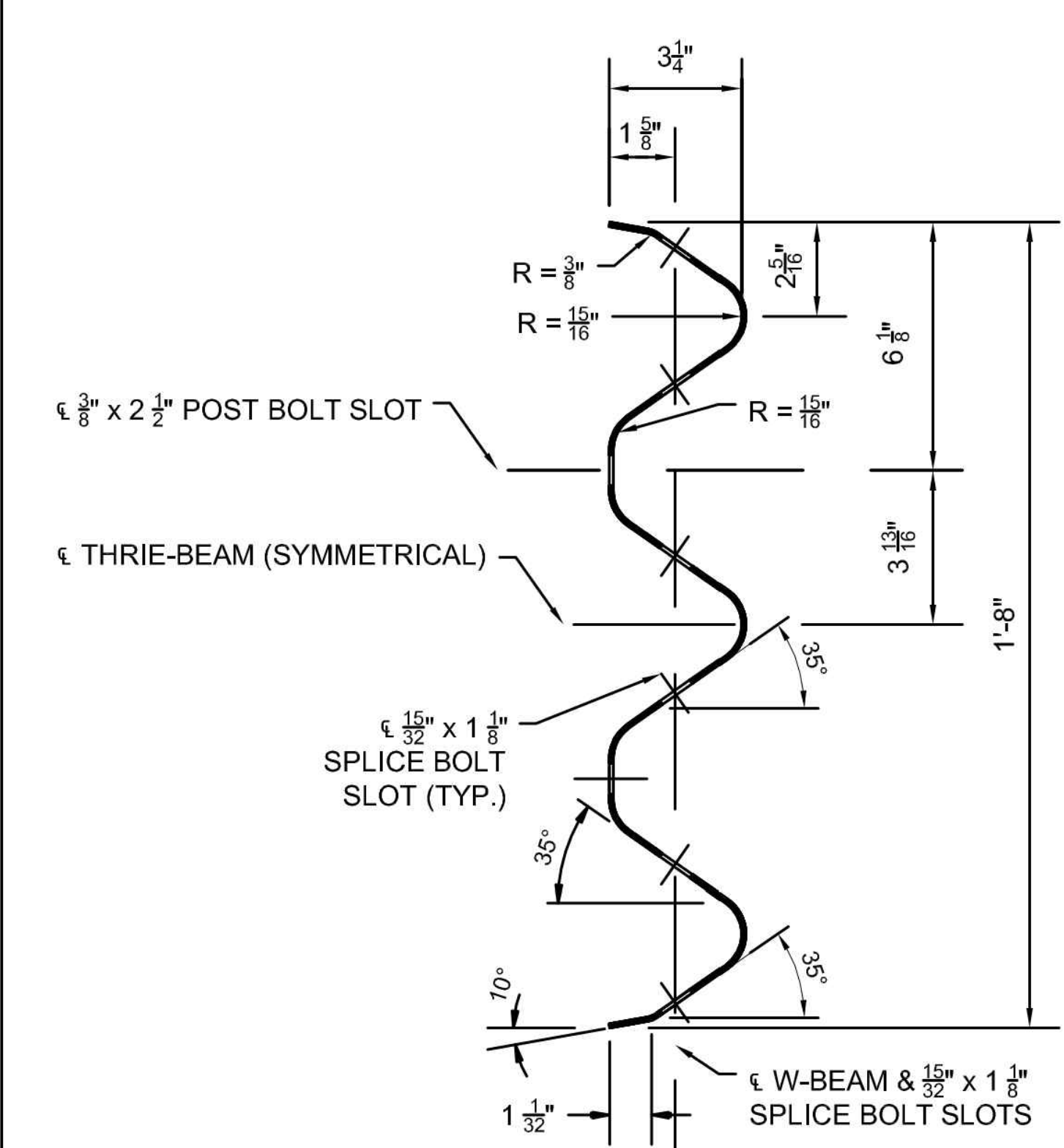
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MS VIEW: LAYER STATE:

	DESIGNER REVIEWER No. DATE
FUSS & O'NEILL 1550 MAIN STREET, SUITE 400 BOSTON, MA 02116 www.fandoh.com	
CITY OF PITTSFIELD WINGWALL & MISCELLANEOUS DETAILS BRIDGE NO. P-10-048 PECKS ROAD OVER ONOTA BROOK PITTSFIELD MASSACHUSETTS	
PROJ. No.: 20100916.K62 DATE: 01/05/2024	
STR-05	

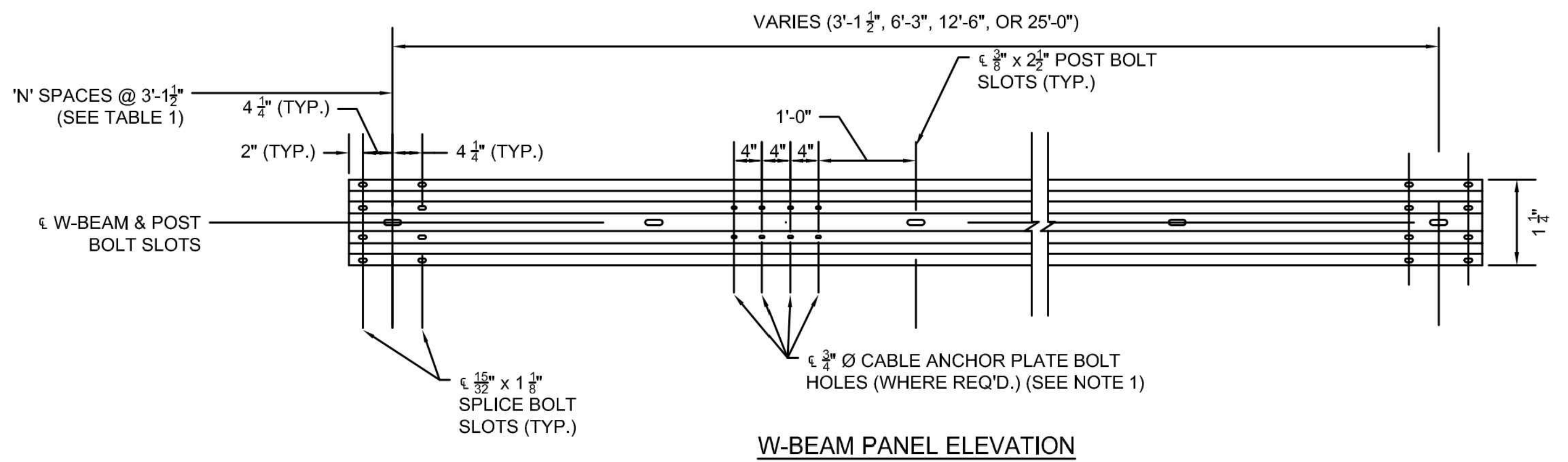
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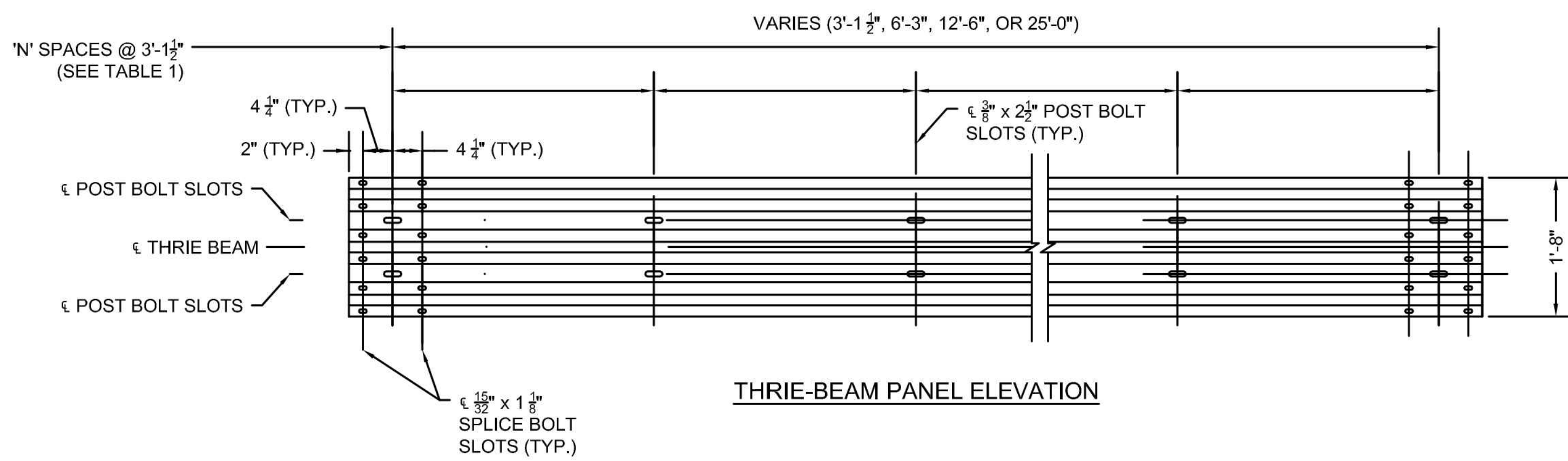
W-BEAM PANEL SECTION



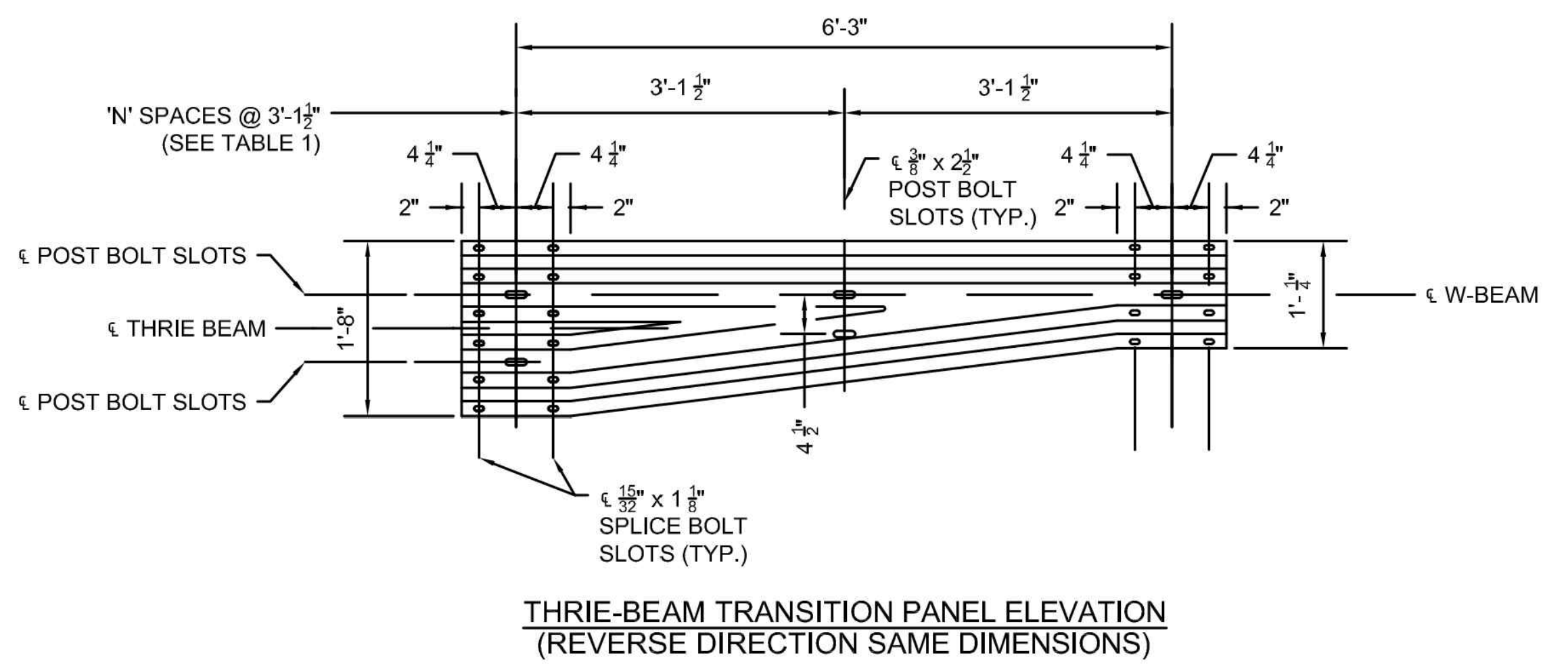
THRIE-BEAM PANEL SECTION



W-BEAM PANEL ELEVATION



THRIE-BEAM PANEL ELEVATION



THRIE-BEAM TRANSITION PANEL ELEVATION
(REVERSE DIRECTION SAME DIMENSIONS)

TABLE 1 : PANEL SUMMARY

PANEL TYPE	NUMBER OF SPACES 'N'	GAUGE
6'-3" W-BEAM	2	12
9'-4 1/2" W-BEAM	3	12
12'-6" W-BEAM	4	12
25'-0" W-BEAM	8	12
12'-6" THRIE-BEAM	4	12
25'-0" THRIE BEAM	8	12
THRIE-BEAM TRANS.	2	10

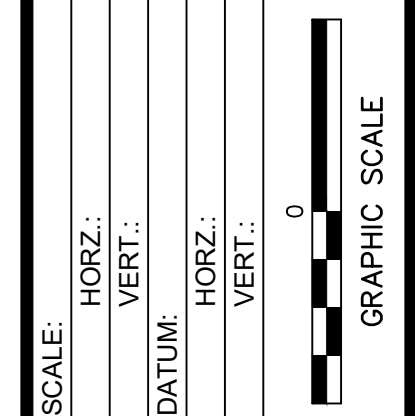
TABLE 2 : 3/8" BUTTON-HEAD BOLT LENGTHS

APPLICATION(S)	LENGTH 'L'	MIN. THREAD LENGTH
PANEL SPLICE	1 1/2"	FULL LENGTH
STEEL POST MOUNT - SINGLE FACED	10"	4"
TIMBER POST MOUNT - SINGLE FACED	18"	4"
STEEL POST MOUNT - DOUBLE FACED	10"	4"
TERMINAL CONNECTOR SPLICE	2"	FULL LENGTH

NOTES:

- INCLUDE 3/8" dia CABLE ANCHOR PLATE BOLT HOLES ONLY WHERE REQUIRED FOR THE INSTALLATION OF THE CABLE ANCHOR PLATE SHOWN ON 400.4.1 AND 400.4.2.
- INSTALL BUTTON-HEAD BOLTS FOR POST MOUNTS AND SPLICES, AS REQUIRED. BOLT LENGTHS SHALL CONFORM TO TABLE 2 UNLESS OTHERWISE INDICATED. PLACE WASHERS UNDER NUTS; WASHERS ARE OPTIONAL AGAINST STEEL FLANGES. DO NOT PLACE WASHERS BETWEEN BOLT HEADS AND PANELS UNLESS OTHERWISE INDICATED.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER



FUSS & O'NEILL
 1550 MAIN STREET, SUITE 400
 PITTSFIELD, MA 01205
 www.fandob.com

CITY OF PITTSFIELD
 GUARDRAIL SECTIONS
 BRIDGE NO. P-10-048
 PECKS ROAD OVER ONOTA BROOK
 MASSACHUSETTS
 PITTSFIELD



CONSTRUCTION STANDARDS
 SECTION 400

W-BEAM & THRIE BEAM PANEL DETAILS

DATE OF ISSUE
 OCTOBER 2017

DRAWING NUMBER
400.1.3

W BEAM & THRIE BEAM GURDRAIL
 SCALE: N.T.S.

COMMONWEALTH OF MASSACHUSETTS
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 STATE BRIDGE ENGINEER
 2/6/2024
 DATE

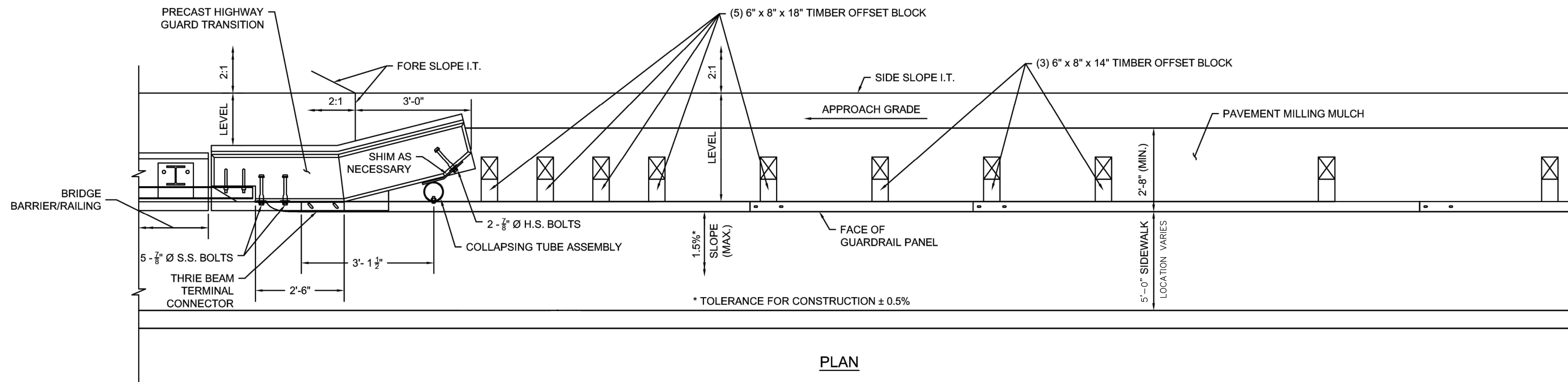
MONTH DD, YYYY	ISSUED FOR CONSTRUCTION PERMITTING
02/02/2024	

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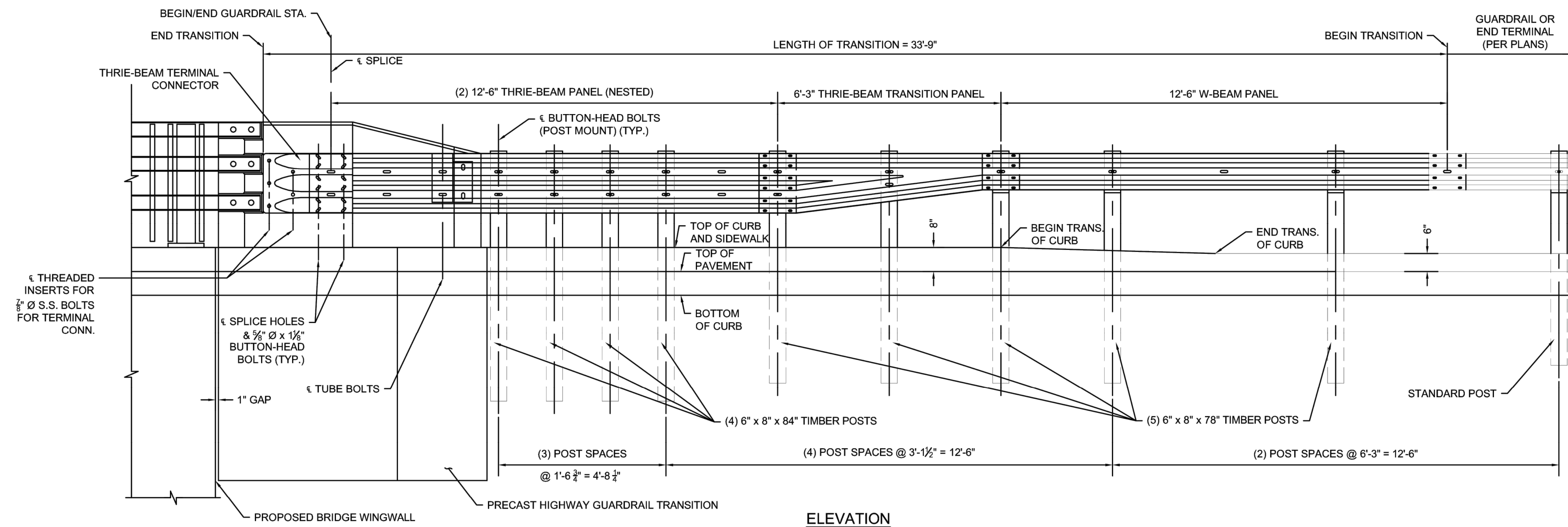
PROJ. No.: 20100916.K62
 DATE: 01/05/2024

STR-09

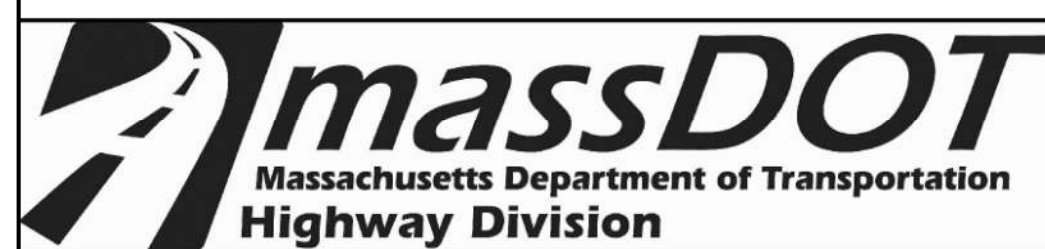
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 LMS VIEW:



PLAN



ELEVATION



CONSTRUCTION STANDARDS
SECTION 400

TRANSITION TO BRIDGE RAIL
(BACK OF SIDEWALK)

DATE OF ISSUE
 OCTOBER 2017

DRAWING NUMBER
400.3.5

TRANSITION TO BRIDGE RAIL (BACK OF SIDEWALK)
 SCALE: N.T.S.

COMMONWEALTH OF MASSACHUSETTS
 MassDOT, Highway Division
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 STATE BRIDGE ENGINEER 2/6/2024 DATE

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No.	DATE	DESCRIPTION	DESIGNER	REVIEWER



SCALE:

HORIZ.:	VERT.:
DATUM:	VERT.:

GRAPHIC SCALE

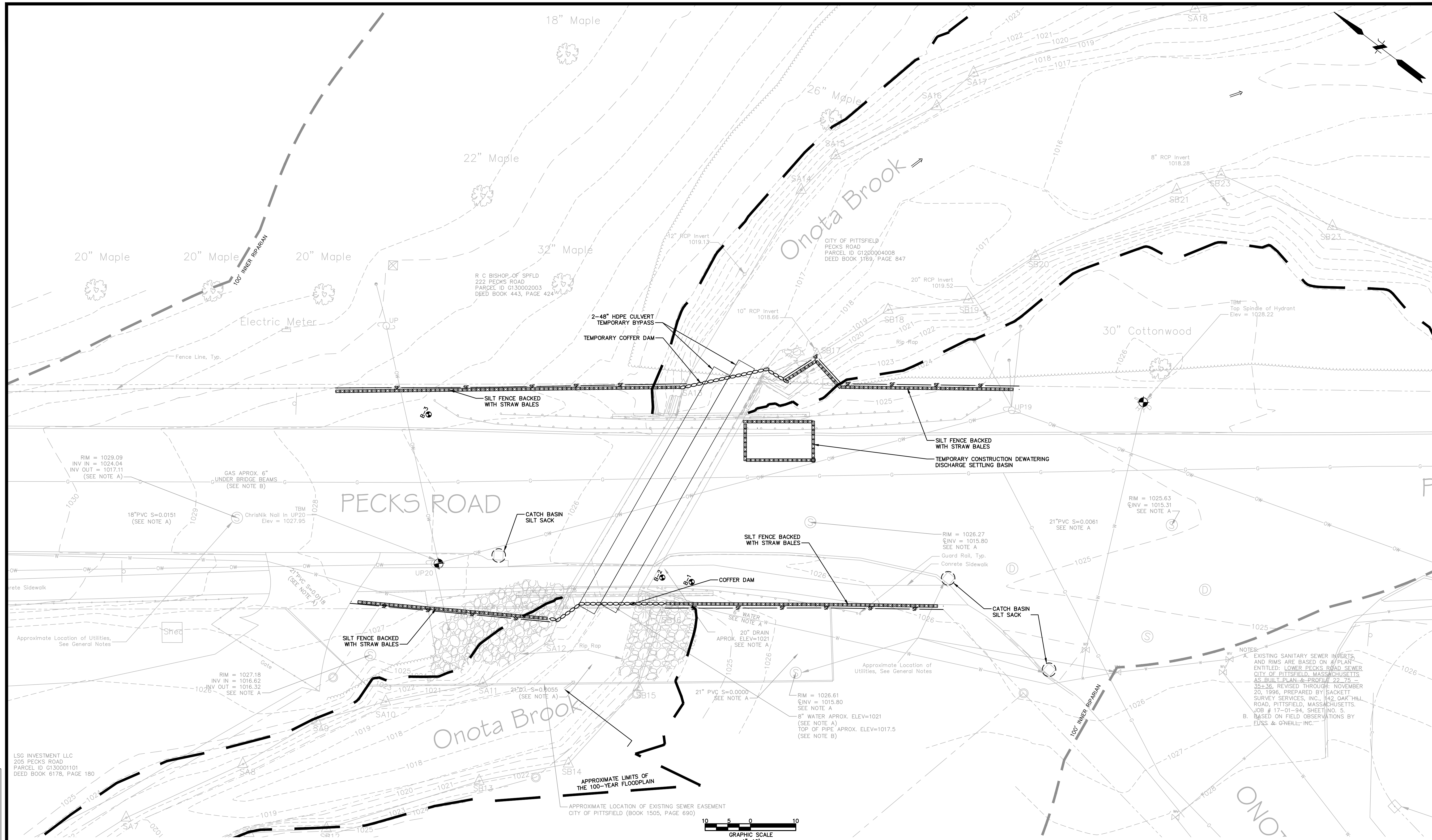
FUSS & O'NEILL
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CITY OF PITTSFIELD
 GUARDRAIL SECTIONS
 BRIDGE NO. P-10-048
 PECKS ROAD OVER ONOTA BROOK
 PITTSFIELD MASSACHUSETTS

PROJ. No.: 20100916.K62
 DATE: 01/05/2024

STR-10

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EARTHWORK

1. CALL DIG-SAFE 811 OR 1-888-DIG-SAFE A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION.
2. STOP WORK IN THE VICINITY OF SUSPECTED CONTAMINATED SOIL, GROUNDWATER OR OTHER MEDIA. IMMEDIATELY NOTIFY THE OWNER SO THAT APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN. RESUME WORK IN THE IMMEDIATE VICINITY ONLY UPON DIRECTION BY THE OWNER.
3. WITHIN THE LIMITS OF THE CULVERT FOOTPRINT, PERFORM EARTHWORK OPERATIONS TO SUBGRADE ELEVATIONS. SEE DRAWINGS BY OTHERS FOR WORK ABOVE SUBGRADE.
4. CONTRACTOR SHALL PROTECT ALL SLOPES, VEGETATION, PAVING, WALKS, AND IMPROVEMENTS OUTSIDE THE AREAS TO BE AFFECTED BY THE CONSTRUCTION OF THIS PROJECT.
5. REFER TO EROSION AND SEDIMENTATION CONTROL DETAILS FOR EROSION AND SEDIMENTATION CONTROL NOTES.

DEMOLITION

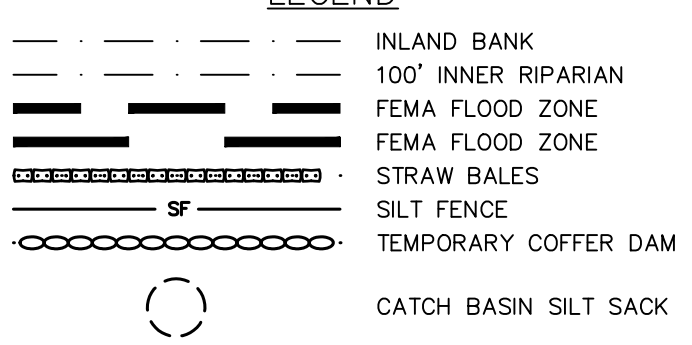
1. REMOVE AND DISPOSE OF EXISTING UTILITIES, FOUNDATIONS AND UNSUITABLE MATERIAL BENEATH AND FOR A DISTANCE OF 10 FEET BEYOND THE PROPOSED CULVERT FOOTPRINT INCLUDING EXTERIOR COLUMNS, UNLESS OTHERWISE NOTED.
2. THE DEMOLITION PLAN IS PROVIDED FOR INFORMATION ONLY AND MAY NOT INDICATE ALL ITEMS REQUIRED TO BE DEMOLISHED. PERFORM A PRE-BID SITE INSPECTION. COORDINATE DEMOLITION OF UNIDENTIFIED UTILITIES OR STRUCTURES WITH OWNER. DEMOLISH STRUCTURES, SITE IMPROVEMENTS, UTILITIES, ETC. AS REQUIRED TO CONSTRUCT PROPOSED FACILITY AND UTILITY SERVICES.

WORK RESTRICTIONS

1. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, FIRE HYDRANTS, AND UTILITIES WITHOUT APPROPRIATE PERMITS.
2. WORK IS RESTRICTED TO THE HOURS OF 7AM TO 5PM, MONDAY THROUGH FRIDAY.

3. TREES, BRUSH AND STUMPS REMOVED BY CLEARING & GRUBBING OPERATIONS SHALL BE TRANSPORTED OFF THE PROJECT SITE TO AN APPROVED DISPOSAL LOCATION.
4. ITEMS TO BE STOCKPILED ON-SITE FOR REUSE OR TO BE RELOCATED SHALL BE PROTECTED FROM CONSTRUCTION OPERATIONS. IF DAMAGED DURING CONSTRUCTION THEY SHALL BE REPLACED IN-KIND AT NO ADDITIONAL COST TO THE OWNER.

LEGEND



EROSION AND SEDIMENTATION CONTROL PLAN

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DATE	
NO.	
DESCRIPTION	
FUSS & O'NEILL 1550 MAIN STREET, SUITE 400 PITTSFIELD, MASSACHUSETTS 01201 www.fussandoneill.com	
CITY OF PITTSFIELD EROSION & SEDIMENTATION CONTROL AND DEWATERING PLAN BRIDGE NO. P-10-048 PECKS ROAD OVER ONOTA BROOK MASSACHUSETTS PITTSFIELD	
PROJ. No.: 20100916.K62 DATE: 01/05/2024	
STR-12	