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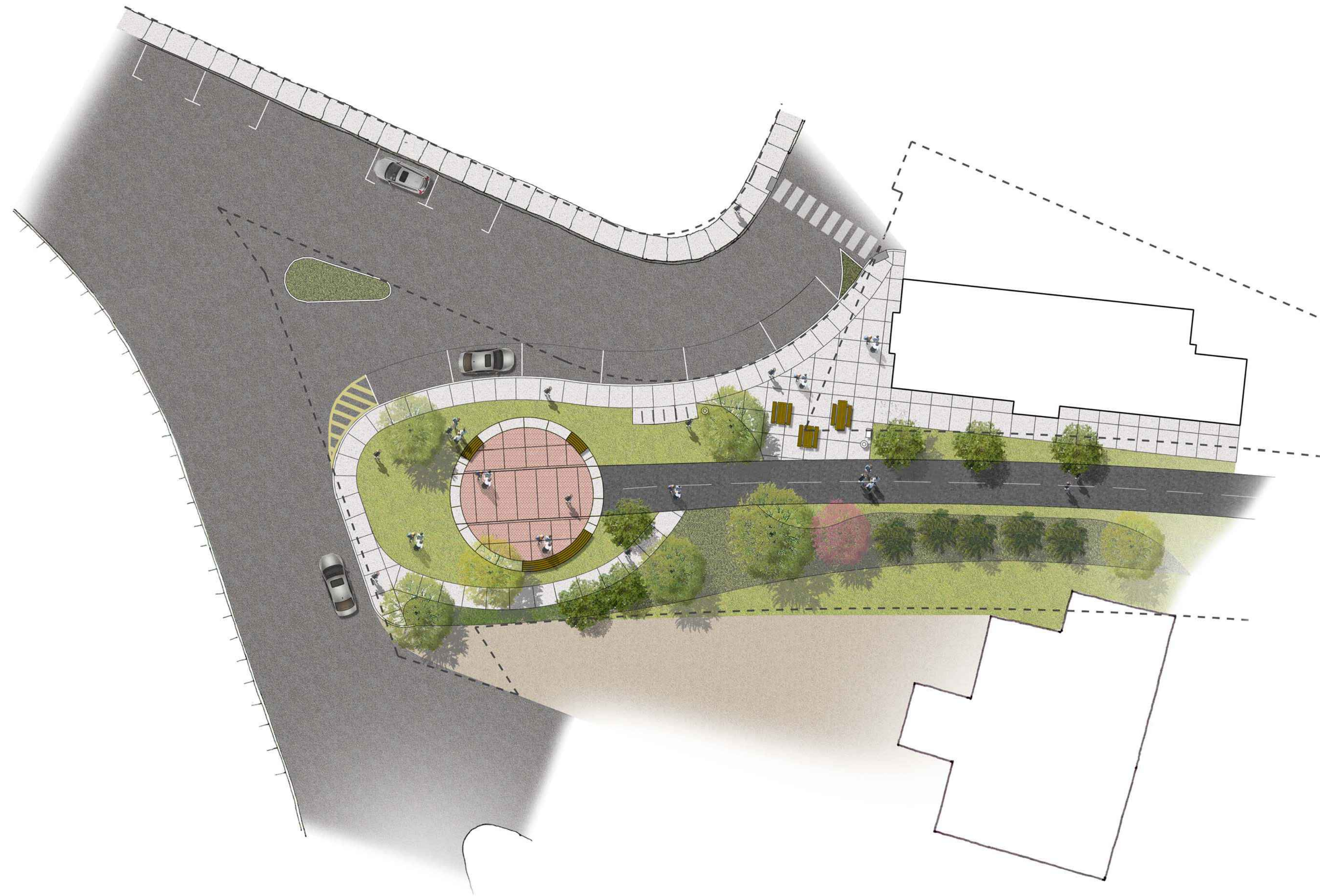
**SHEET LIST:**

- G0.0 COVER SHEET
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- G1.1 EXISTING CONDITIONS PART 2 OF 4
- G1.2 EXISTING CONDITIONS PART 3 OF 4
- G1.3 EXISTING CONDITIONS PART 4 OF 4
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- C2.0 CONSTRUCTION PLANS PART 1 OF 4
- C2.1 CONSTRUCTION PLANS PART 2 OF 4
- C2.2 CONSTRUCTION PLANS PART 3 OF 4
- C2.3 CONSTRUCTION PLANS PART 4 OF 4
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- C8.9 CROSS SECTIONS PART 10 OF 11
- C8.10 CROSS SECTIONS PART 11 OF 11

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- L5.4 LANDSCAPE DETAILS PART 5 OF 5

# TWIN CITIES RAIL TRAIL LEOMINSTER DEPOT AT WATER STREET TO MAIN STREET LEOMINSTER, MA



**BROWN, RICHARDSON + ROWE**

LANDSCAPE ARCHITECTS AND PLANNERS  
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**TWIN CITIES  
 RAIL TRAIL**

**WATER STREET TO  
 MAIN STREET  
 LEOMINSTER, MA**

KEY PLAN:

ISSUE:		
NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

DESIGNED: JP

DRAWN: JP/CS CHECKED: AR

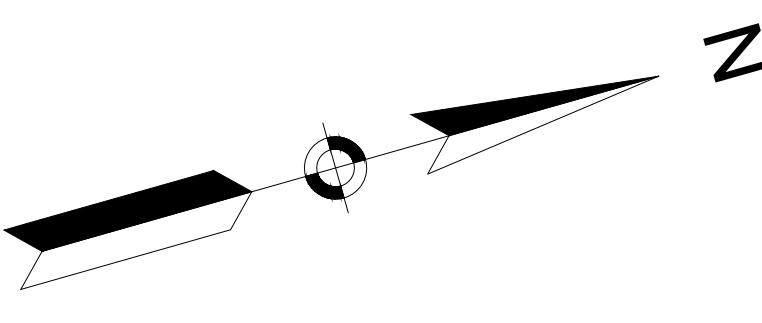
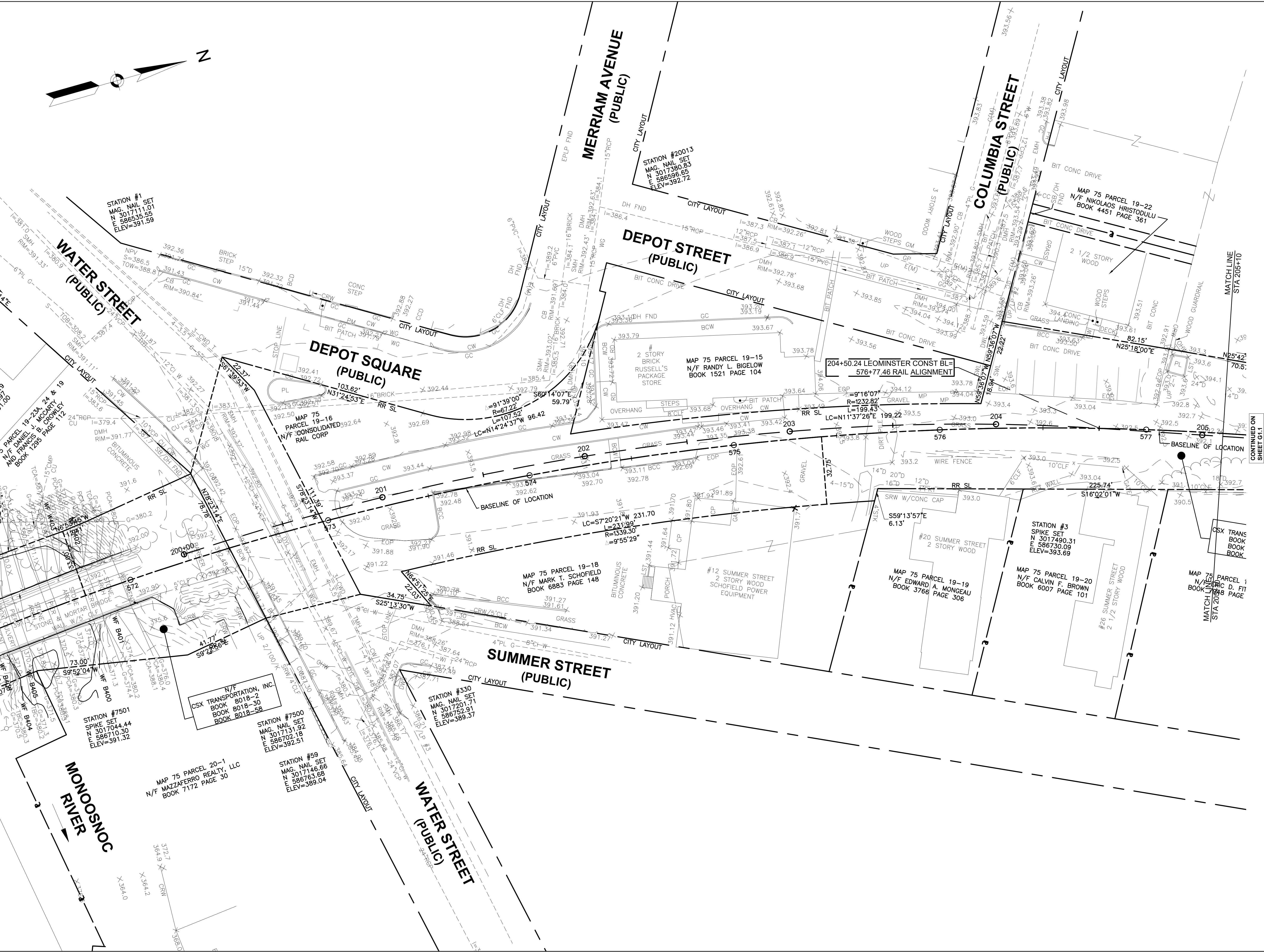
DATE: 12.11.2024

SCALE: NO SCALE

SUBMISSION: BID SET

DRAWING NO.

**G0.0**



# TWIN CITIES RAIL TRAIL

WATER STREET TO MAIN STREET  
LEOMINSTER, MA

KEY PLAN:

NO.	REVISION	DATE

STAMPED AND SIGNED:

## EXISTING CONDITIONS PLANS PART 1 OF 4

DESIGNED: MEH

DRAWN: CWS CHECKED: JJH

DATE: 12-11-2024

SCALE: 1" = 20'

SUBMISSION: BID SET

DRAWING NO.

# G1.0

CONTINUED ON SHEET G1.1

MATCH LINE STA 205+70

MATCH LINE STA 205+70

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MATCH LINE STA 205+70

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MATCH LINE STA 205+70

MATCH LINE STA 205+70



# TWIN CITIES RAIL TRAIL

WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA

KEY PLAN:

ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

DRAWING TITLE:

## EXISTING CONDITIONS PLANS PART 2 OF 4

DESIGNED: MEH

DRAWN: CWS

CHECKED: JJH

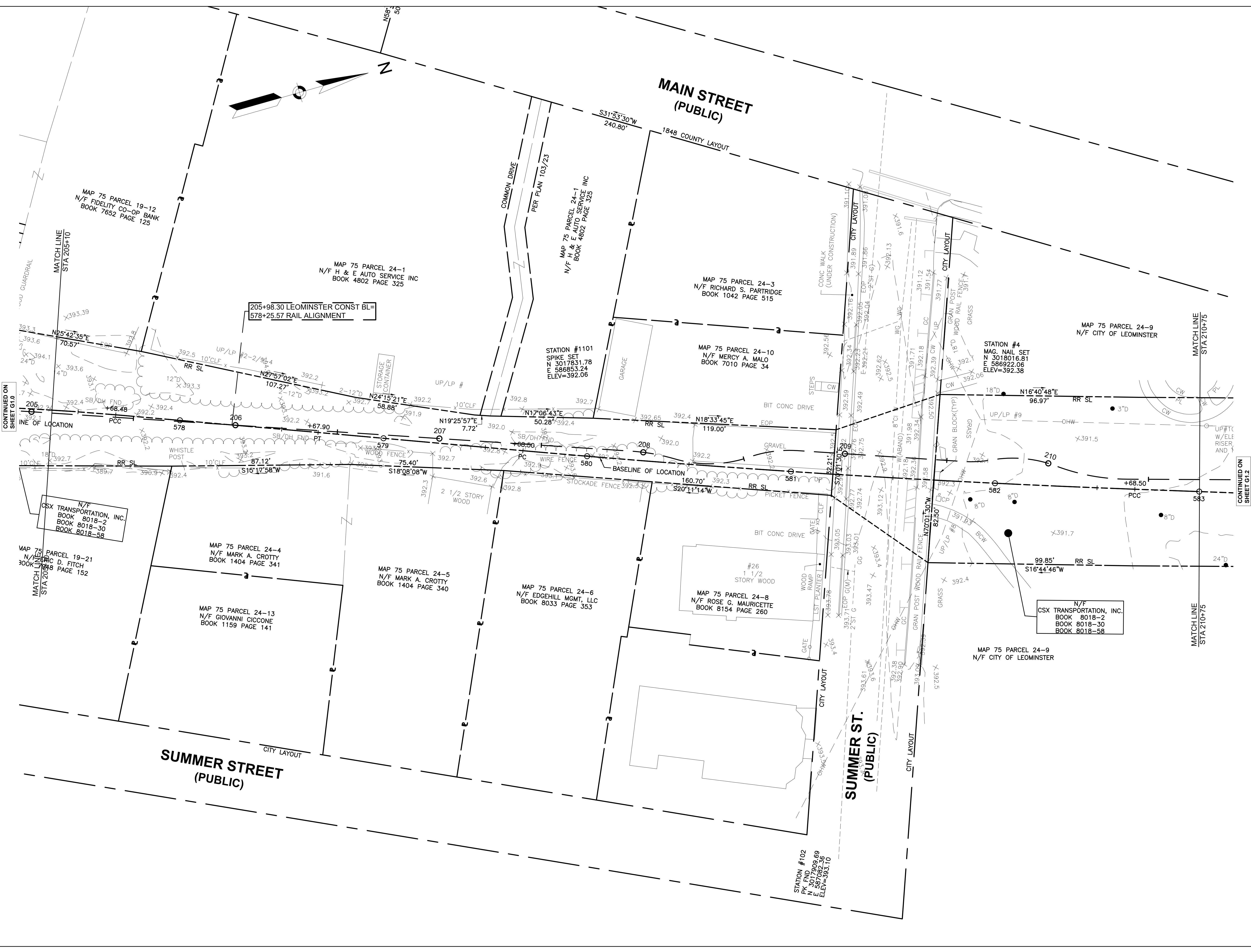
DATE: 12-11-2024

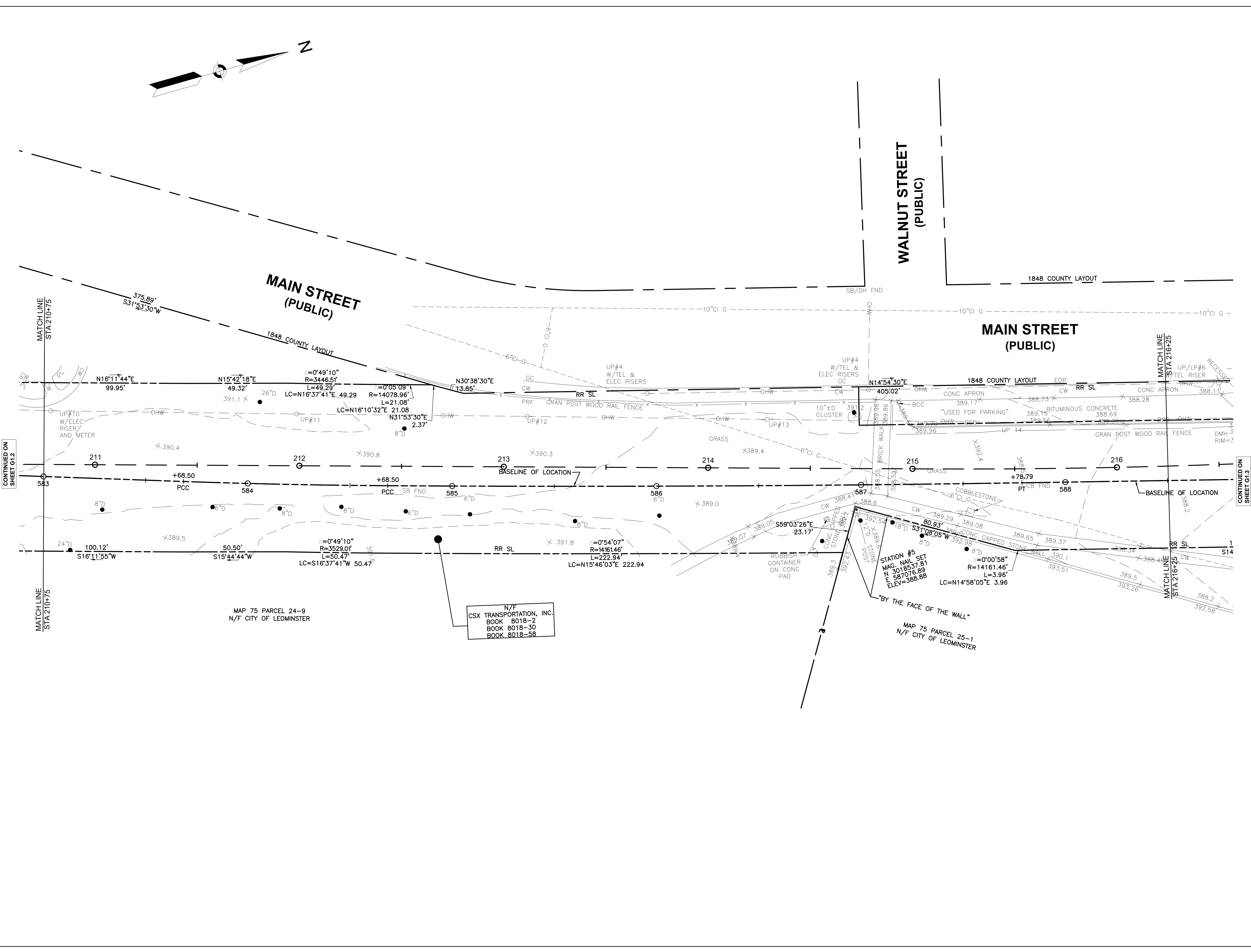
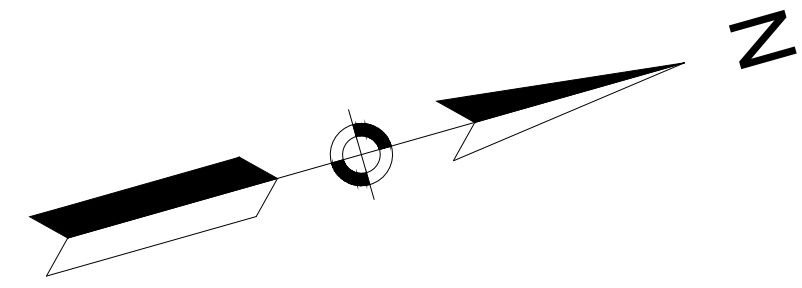
SCALE: 1" = 20'

SUBMISSION: BID SET

DRAWING NO.

# G1.1





CONTINUED ON SHEET G1.2

CONTINUED ON SHEET G1.3

N/F  
CSX TRANSPORTATION, INC.  
BOOK 8018-2  
BOOK 8018-30  
BOOK 8018-58

MAP 75 PARCEL 24-9  
N/F CITY OF LEOMINSTER

MAP 75 PARCEL 25-1  
N/F CITY OF LEOMINSTER



**TWIN CITIES  
RAIL TRAIL**

WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA

KEY PLAN:

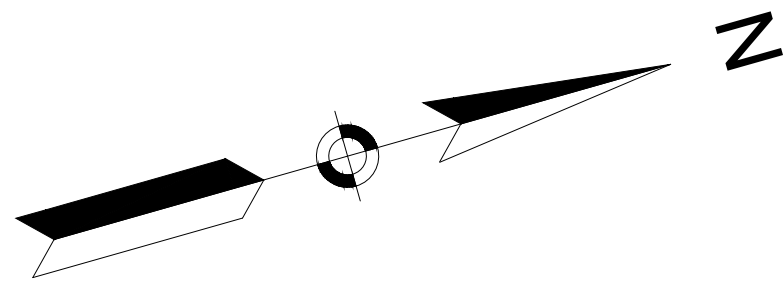
ISSUE:		
NO.	REVISION	DATE

STAMPED AND SIGNED:

DRAWING TITLE:  
**EXISTING  
CONDITIONS PLANS  
PART 3 OF 4**

DESIGNED: MEH  
DRAWN: CWS CHECKED: JJH  
DATE: 12-11-2024  
SCALE: 1" = 20'  
SUBMISSION: BID SET

DRAWING NO.  
**G1.2**



# TWIN CITIES RAIL TRAIL

## WATER STREET TO MAIN STREET LEOMINSTER, MA

KEY PLAN:

ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

DRAWING TITLE:

# EXISTING CONDITIONS PLANS PART 4 OF 4

DESIGNED: MEH

DRAWN: CWS

CHECKED: JJH

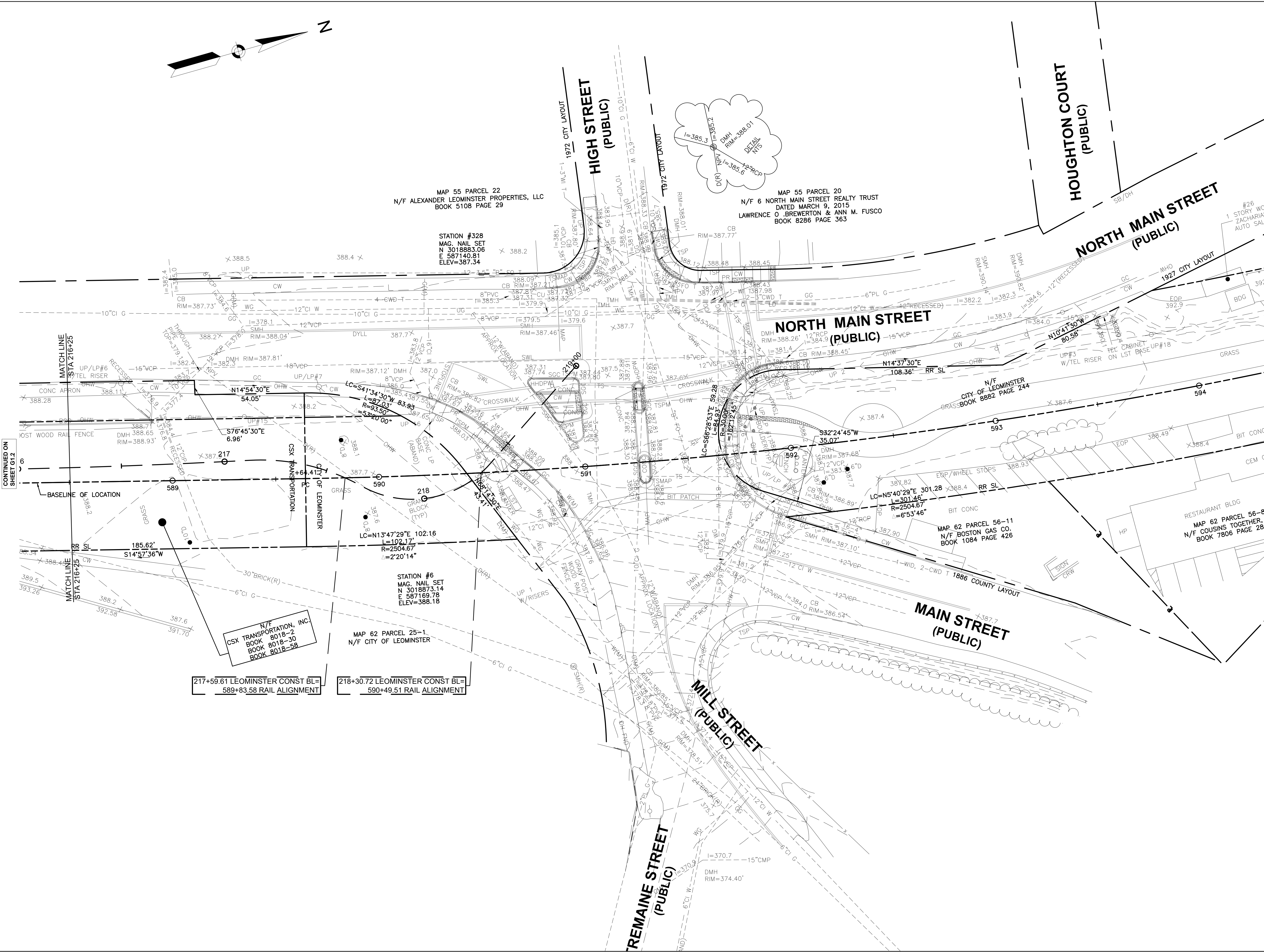
DATE: 12-11-2024

SCALE: 1" = 20'

SUBMISSION: BID SET

DRAWING NO.

# G1.3



CONTINUED ON SHEET G1.2

217+59.61 LEOMINSTER CONST BL= 589+83.58 RAIL ALIGNMENT

218+30.72 LEOMINSTER CONST BL= 590+49.51 RAIL ALIGNMENT

MAP 55 PARCEL 22  
N/F ALEXANDER LEOMINSTER PROPERTIES, LLC  
BOOK 5108 PAGE 29

STATION #328  
MAG. NAIL SET  
N 3018883.06  
E 587140.81  
ELEV=387.34

MAP 55 PARCEL 20  
N/F 6 NORTH MAIN STREET REALTY TRUST  
DATED MARCH 9, 2015  
LAWRENCE O. BREWERTON & ANN M. FUSCO  
BOOK 8286 PAGE 363

STATION #6  
MAG. NAIL SET  
N 3018873.14  
E 587169.78  
ELEV=388.18

MAP 62 PARCEL 25-1  
N/F CITY OF LEOMINSTER

MAP 62 PARCEL 56-11  
N/F BOSTON GAS CO.  
BOOK 1084 PAGE 426

MAP 62 PARCEL 56-8  
N/F COUSINS TOGETHER,  
BOOK 7806 PAGE 280

CITY OF LEOMINSTER  
BOOK 8882 PAGE 244

N/F  
CSX TRANSPORTATION, INC.  
BOOK 8018-2  
BOOK 8018-30  
BOOK 8018-58



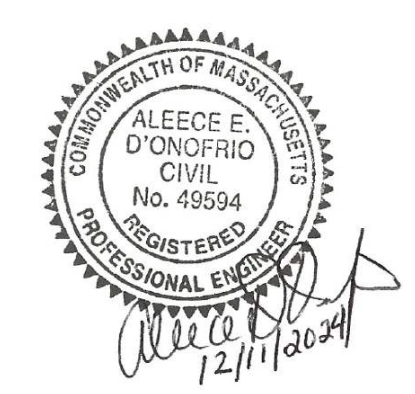
**TWIN CITIES  
RAIL TRAIL**

WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA

KEY PLAN:

ISSUE:		
NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

**TYPICAL CROSS  
SECTIONS**

DESIGNED: MEH	
DRAWN: CWS	CHECKED: JJH
DATE: 12-11-2024	
SCALE: NOT TO SCALE	
SUBMISSION: BID SET	
DRAWING NO.	

**C1.0**

**PAVEMENT NOTES**

**PROPOSED FULL DEPTH PAVEMENT TRAIL SECTIONS &  
PROPOSED FULL DEPTH HOT MIX ASPHALT WALKWAY SECTIONS**

**SURFACE:** 1-1/2" SUPERPAVE SURFACE COURSE 9.5 (SSC-9.5)  
**INTERMEDIATE:** 2-1/2" SUPERPAVE INTERMEDIATE COURSE 19.0 (SIC-19.0)  
**BASE:** 8" (MIN) GRAVEL BORROW, TYPE b

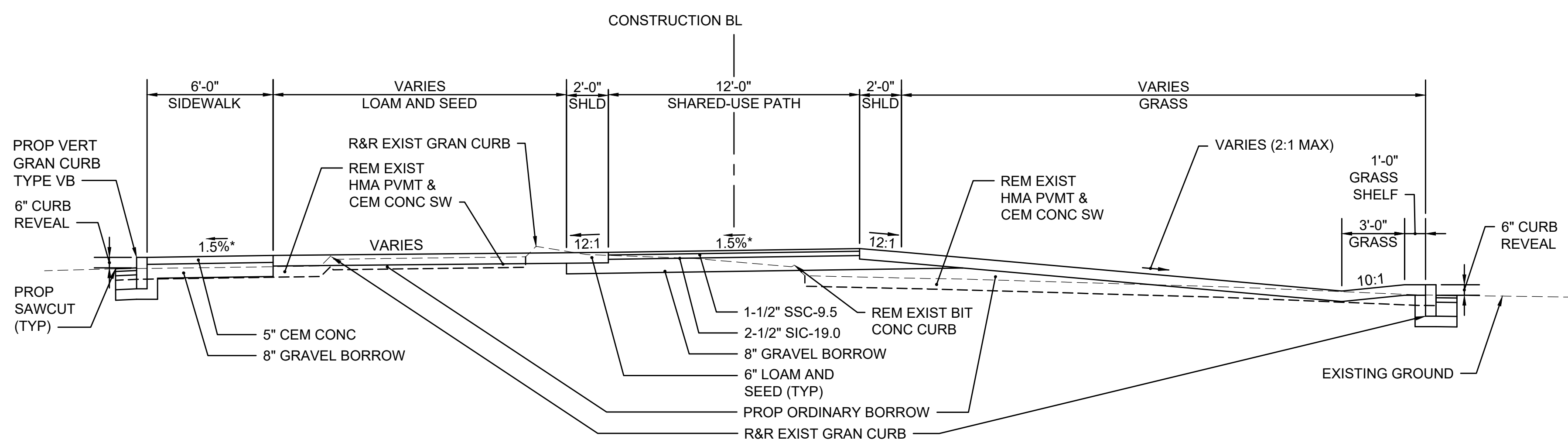
**PEDESTRIAN CONCRETE PAVING SECTIONS**  
**SURFACE:** 5" CEMENT CONCRETE (4000psi, 3/4", 610 lbs. AIR ENTRAINED) WITH WELDED WIRE FABRIC REINFORCEMENT  
**BASE:** 6" (MIN) GRAVEL BORROW, TYPE b

**CEMENT CONCRETE PEDESTRIAN CURB RAMP SECTIONS**  
**SURFACE:** 5" CEMENT CONCRETE (4000psi, 3/4", 610 lbs. AIR ENTRAINED) WITH WELDED WIRE FABRIC REINFORCEMENT  
**BASE:** 6" (MIN) GRAVEL BORROW, TYPE b

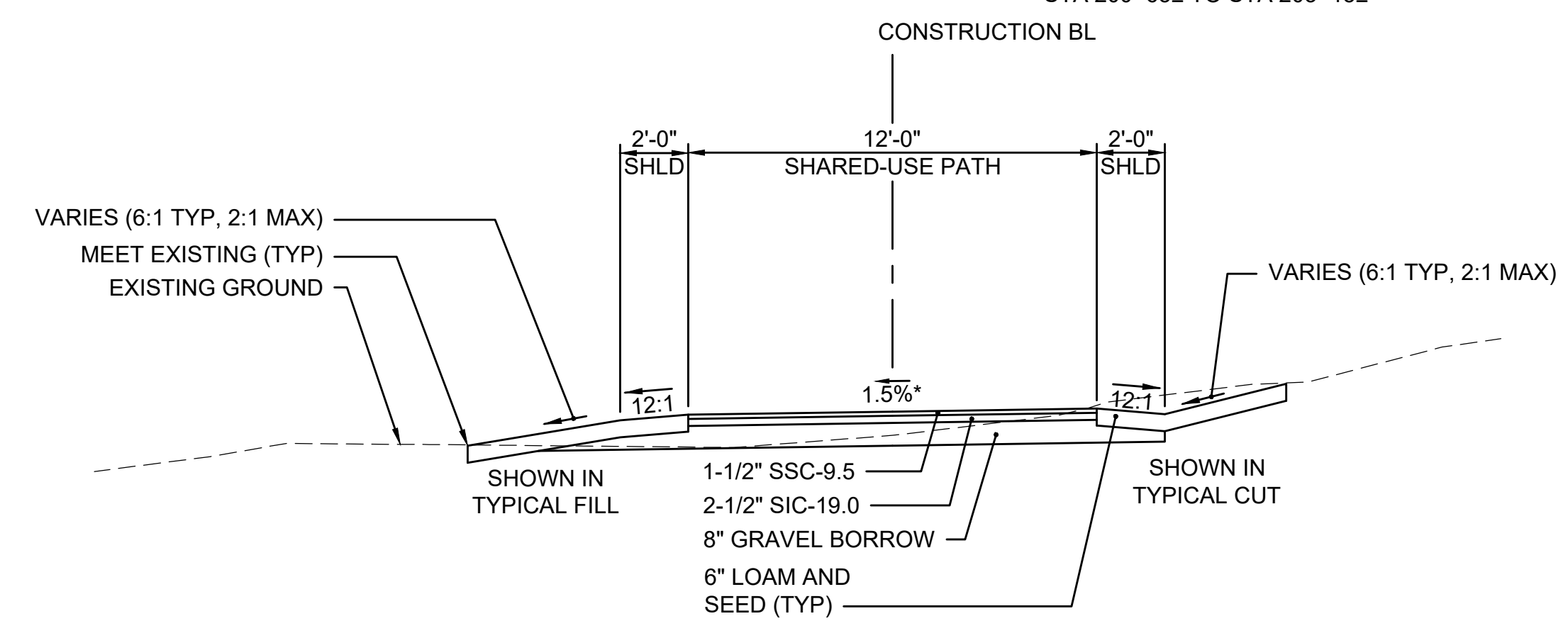
**GRANITE CURB SETTING SECTIONS**  
SEE METHOD OF SETTING GRANITE CURB (AGAINST EXISTING PAVEMENT) DETAIL SHEET C6.1 & MASSDOT STANDARD DETAIL E106.3.0

**SURFACE:** 1-1/2" SUPERPAVE SURFACE COURSE 9.5 (SSC-9.5)  
**INTERMEDIATE:** 3" SUPERPAVE INTERMEDIATE COURSE 19.0 (SIC-19.0)  
**BASE:** 7.5± CEMENT CONCRETE  
6" GRAVEL BORROW, TYPE b

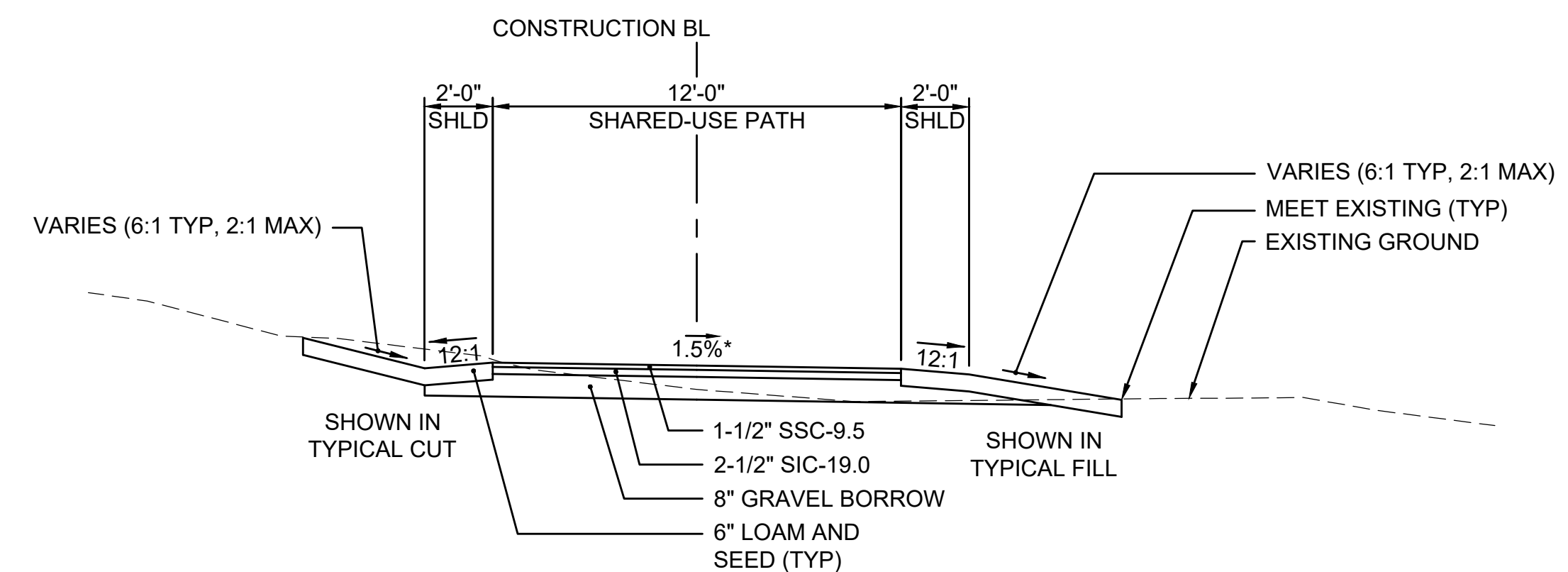
\* - TOLERANCE FOR CONSTRUCTION ±0.5% (TYP)  
**NOTE:**  
1. SEE CONSTRUCTION PLANS FOR LOCATION OF PROPOSED WOOD GUARDRAIL.



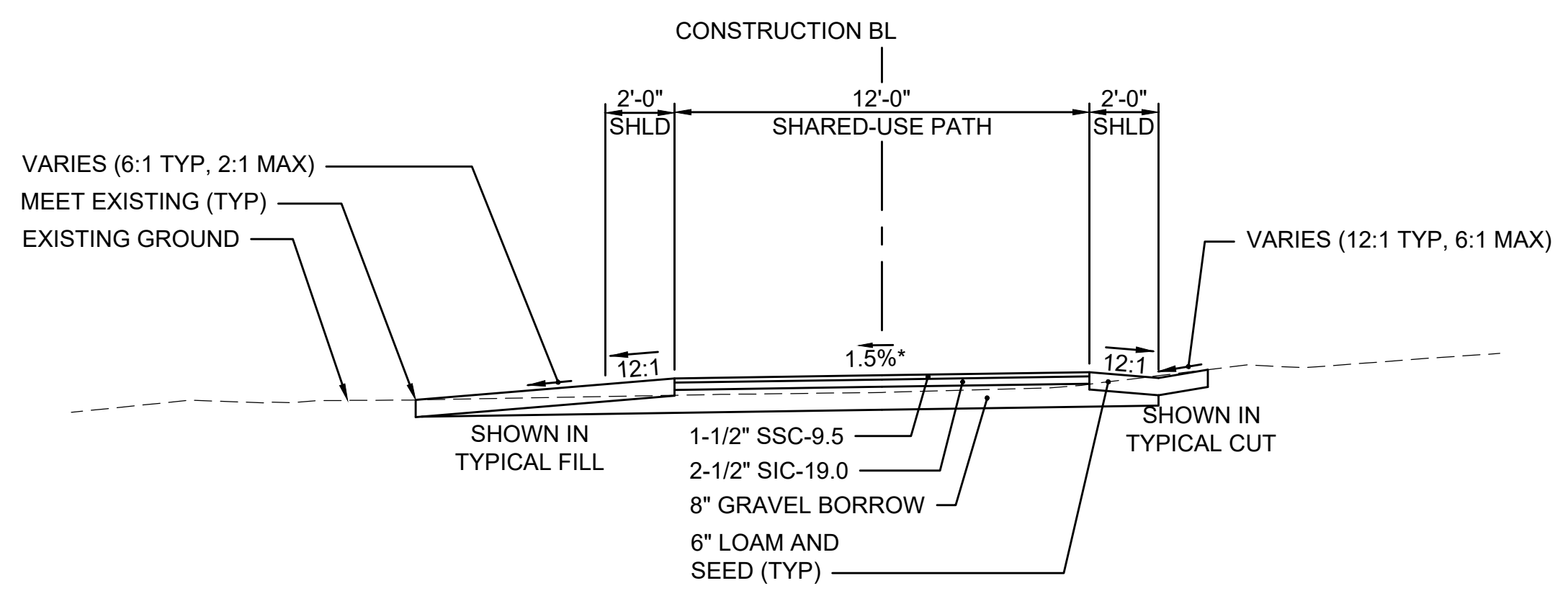
**TYPICAL FULL DEPTH TRAIL SECTION**  
NOT TO SCALE  
STA 200+65± TO STA 203+15±



**TYPICAL FULL DEPTH TRAIL SECTION**  
NOT TO SCALE  
STA 203+15± TO STA 207+75±



**TYPICAL FULL DEPTH TRAIL SECTION**  
NOT TO SCALE  
STA 207+75± TO STA 209+00±



**TYPICAL FULL DEPTH TRAIL SECTION**  
NOT TO SCALE  
STA 209+50± TO STA 218+50±

TREE TRIMMING LIMIT - MAX 18'-0" ABOVE PAVEMENT SURFACE AND 2'-0" BEYOND PROP EDGE OF PAVEMENT, BOTH SIDES

LEANING TREES AND MAJOR BRANCHES OVER 6-INCHES IN DIAMETER SHALL NOT BE TRIMMED. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND THESE WITHOUT CAUSING DAMAGE.

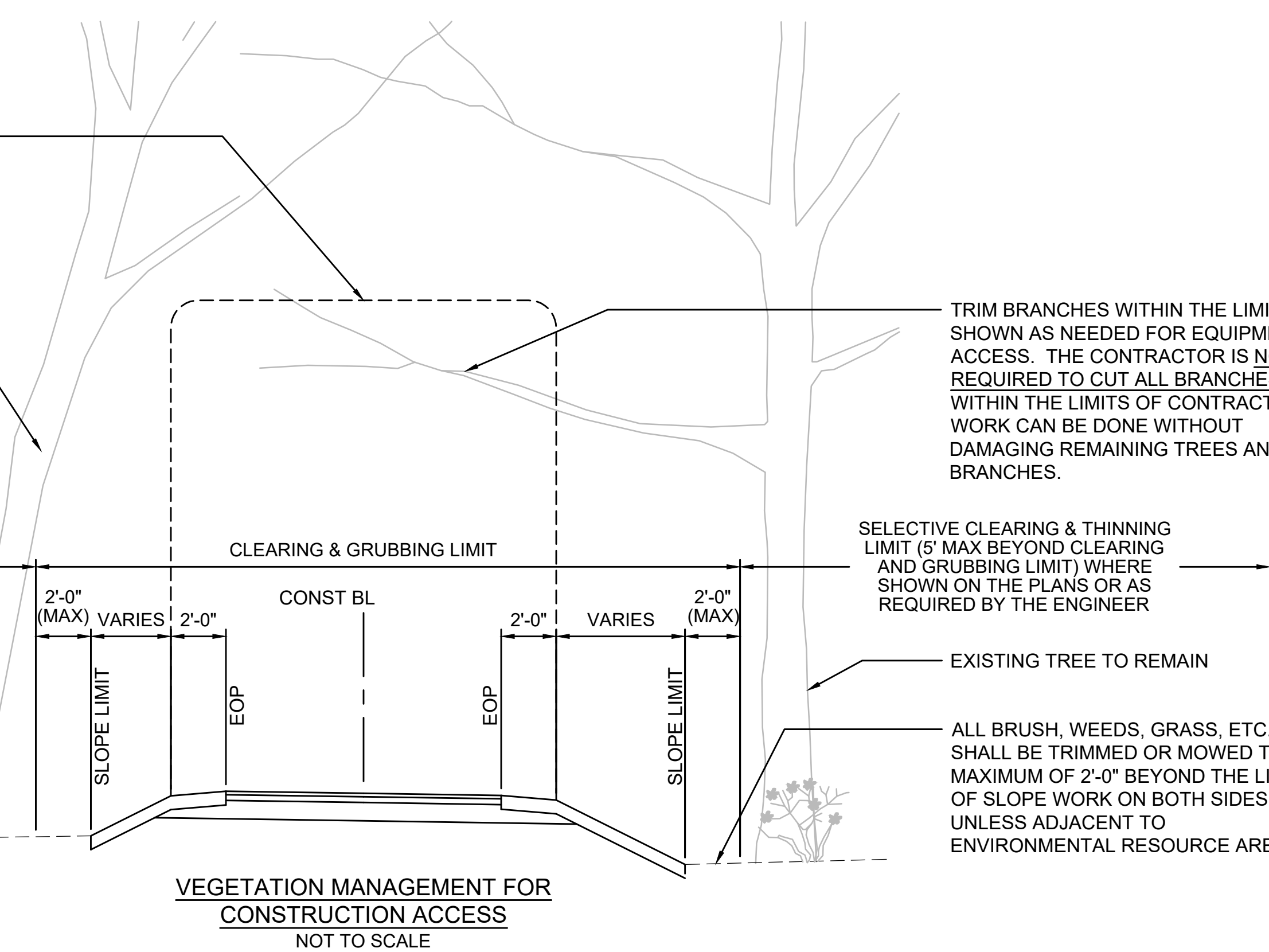
TRIM BRANCHES WITHIN THE LIMITS SHOWN AS NEEDED FOR EQUIPMENT ACCESS. THE CONTRACTOR IS NOT REQUIRED TO CUT ALL BRANCHES WITHIN THE LIMITS OF CONTRACT IF WORK CAN BE DONE WITHOUT DAMAGING REMAINING TREES AND BRANCHES.

SELECTIVE CLEARING & THINNING LIMIT (5' MAX BEYOND CLEARING AND GRUBBING LIMIT) WHERE SHOWN ON THE PLANS OR AS REQUIRED BY THE ENGINEER

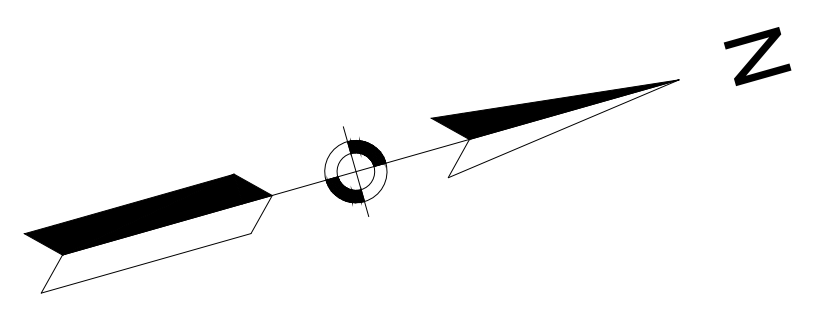
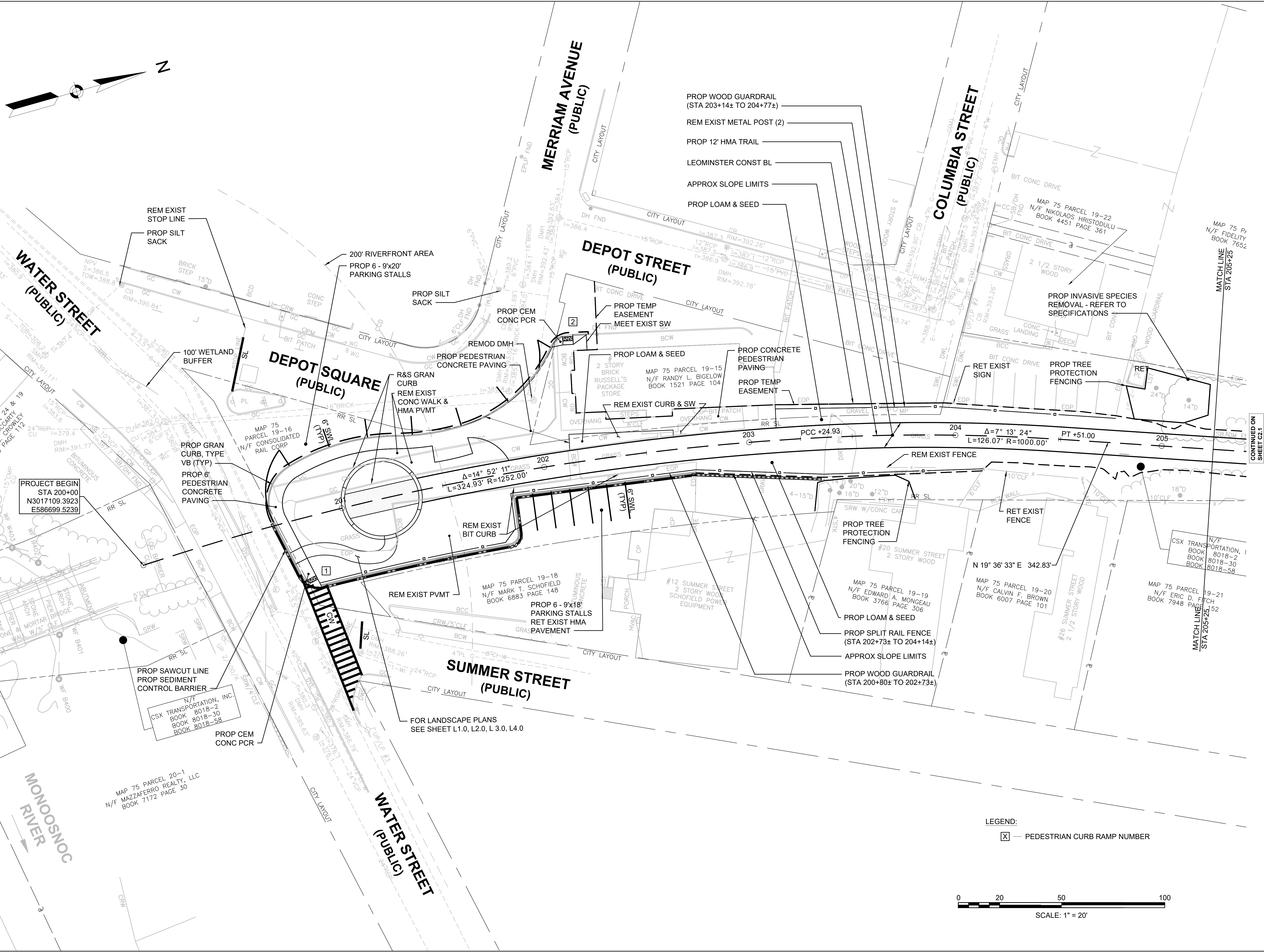
CLEARING & GRUBBING LIMIT

SELECTIVE CLEARING & THINNING LIMIT (5' MAX BEYOND CLEARING AND GRUBBING LIMIT) WHERE SHOWN ON THE PLANS OR AS REQUIRED BY THE ENGINEER

- NOTES:**
- ALL TREES REQUIRING REMOVAL SHALL BE MARKED AND APPROVED BY THE ENGINEER PRIOR TO REMOVAL.
  - EXISTING PAVED AREAS WILL BE EXCLUDED FROM PAYMENT UNDER ITEM 101. - CLEARING AND GRUBBING.
  - CLEARING AND GRUBBING AND SELECTIVE CLEARING AND THINNING SHALL NOT OCCUR WITHIN WETLAND RESOURCE AREAS.



**VEGETATION MANAGEMENT FOR  
CONSTRUCTION ACCESS**  
NOT TO SCALE



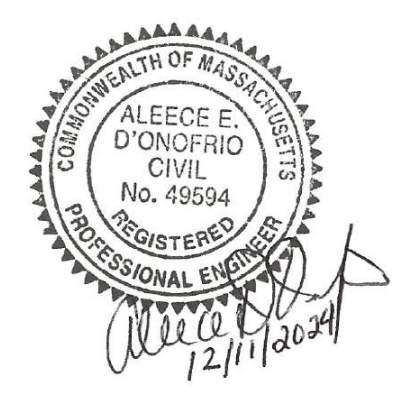
# TWIN CITIES RAIL TRAIL

WATER STREET TO MAIN STREET  
LEOMINSTER, MA

KEY PLAN:

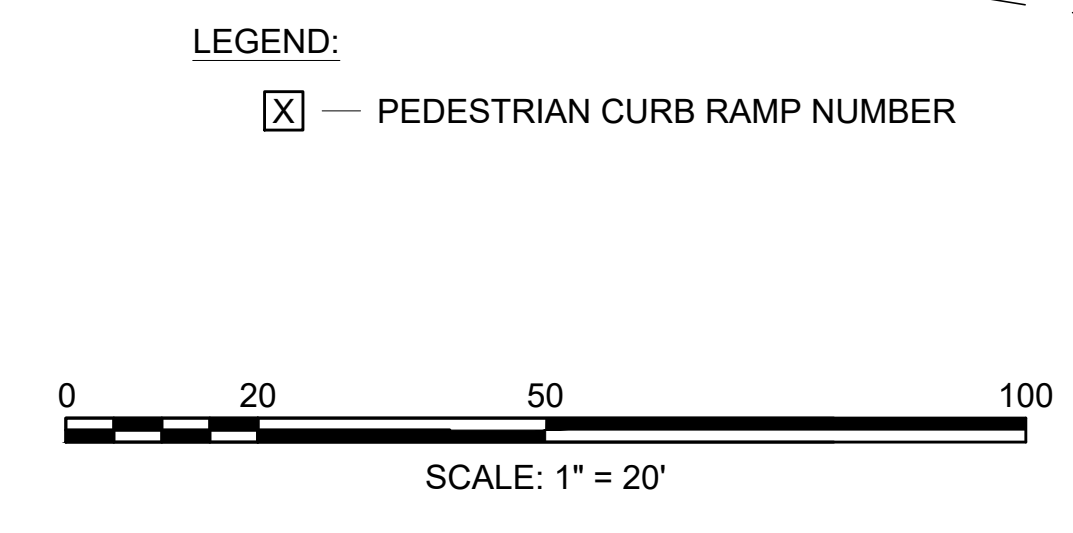
NO.	REVISION	DATE

STAMPED AND SIGNED:



## CONSTRUCTION PLANS PART 1 OF 4

DESIGNED:	MEH
DRAWN:	CWS
CHECKED:	JJH
DATE:	12-11-2024
SCALE:	1" = 20'
SUBMISSION:	BID SET
DRAWING NO.:	C2.0



CONTINUED ON SHEET C2.1

MATCH LINE STA 205+25

FOR LANDSCAPE PLANS  
SEE SHEET L1.0, L2.0, L3.0, L4.0

PROJECT BEGIN  
STA 200+00  
N3017109.3923  
E586699.5239

N/F  
CSX TRANSPORTATION, INC.  
BOOK 8018-2  
BOOK 8018-30  
BOOK 8018-58

MAP 75 PARCEL 20-1  
N/F MAZZAFERRO REALTY, LLC  
BOOK 7172 PAGE 30



# TWIN CITIES RAIL TRAIL

## WATER STREET TO MAIN STREET LEOMINSTER, MA

KEY PLAN:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

# CONSTRUCTION PLANS PART 2 OF 4

DESIGNED: MEH

DRAWN: CWS CHECKED: JJH

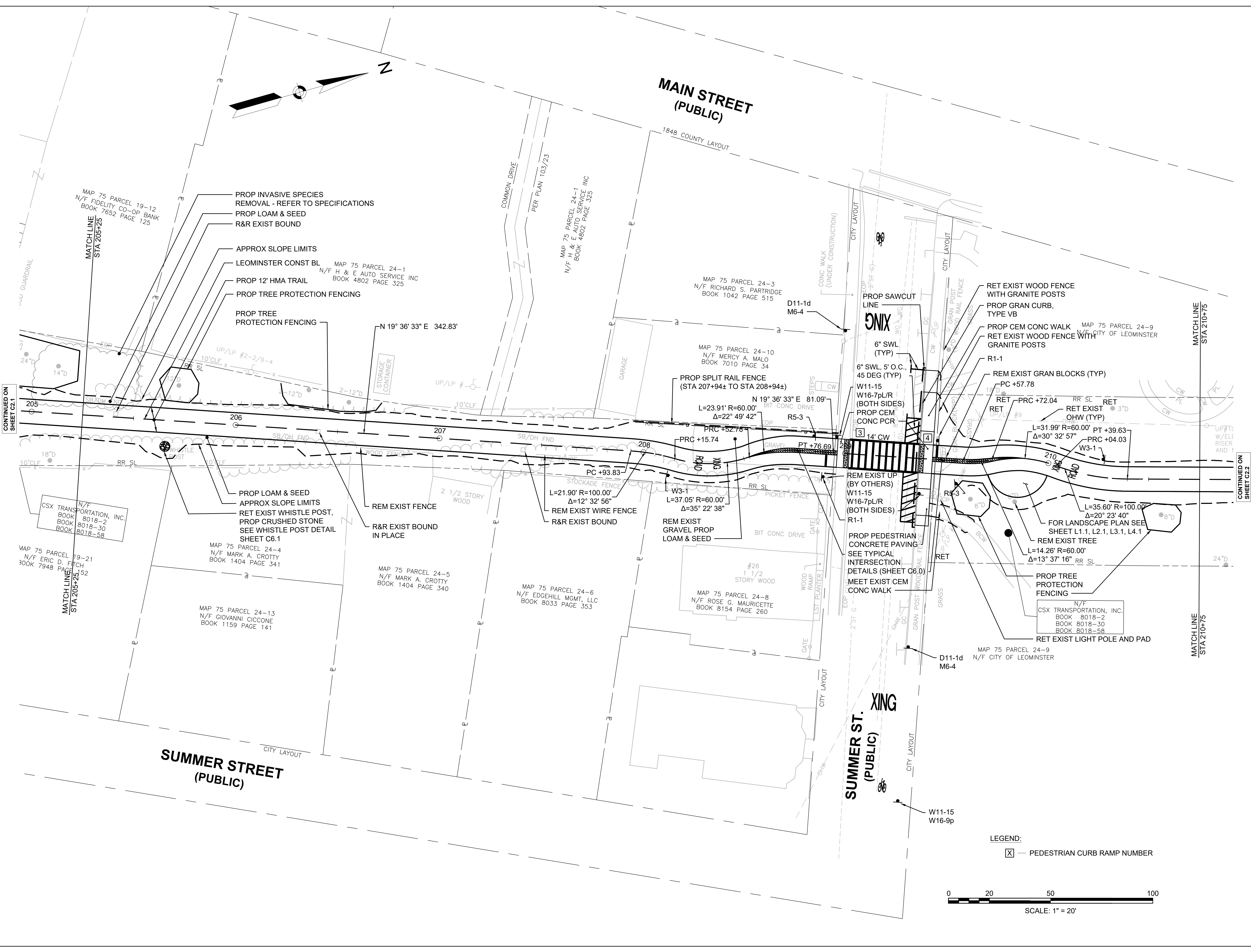
DATE: 12-11-2024

SCALE: 1" = 20'

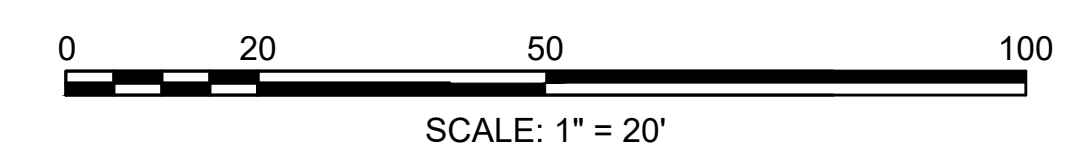
SUBMISSION: BID SET

DRAWING NO.

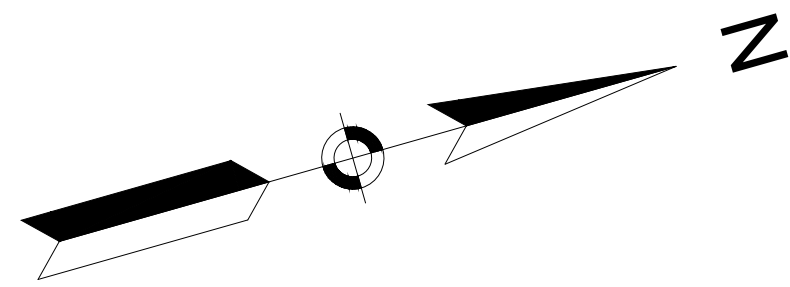
# C2.1



LEGEND:  
[Symbol] — PEDESTRIAN CURB RAMP NUMBER







**NOTE**  
 PROPOSED BRICK INTERPRETIVE SIGN PAD SHALL BE CONSTRUCTED WITH EXISTING BRICK PAVERS ON SITE. WORK SHALL BE DONE IN ACCORDANCE WITH ITEM 32 10 00.11 - BRICK WALK REMOVED AND RELAID

**BROWN, RICHARDSON + ROWE**

LANDSCAPE ARCHITECTS AND PLANNERS  
 65 FRANKLIN STREET, 4TH FLOOR  
 BOSTON, MA 02109

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**TWIN CITIES RAIL TRAIL**

WATER STREET TO MAIN STREET  
 LEOMINSTER, MA

KEY PLAN:

ISSUE:		
NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

**CONSTRUCTION PLANS PART 3 OF 4**

DESIGNED: MEH

DRAWN: CWS CHECKED: JJH

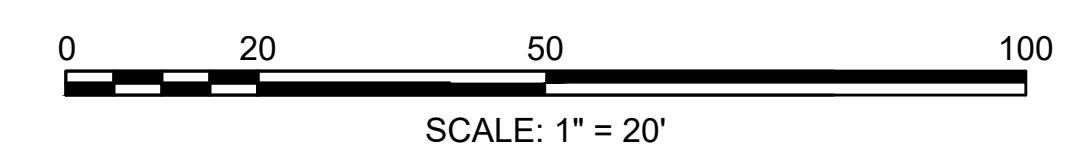
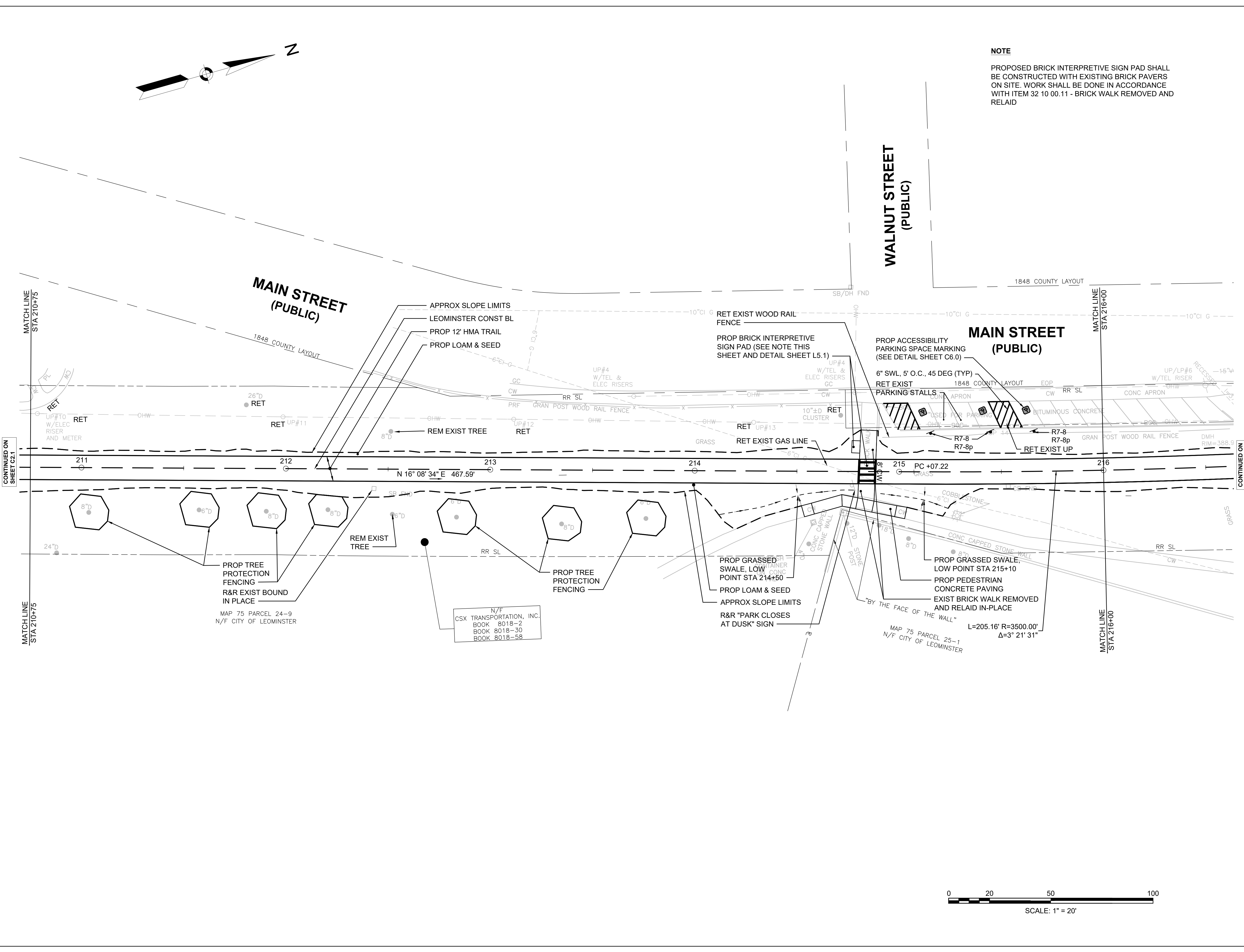
DATE: 12-11-2024

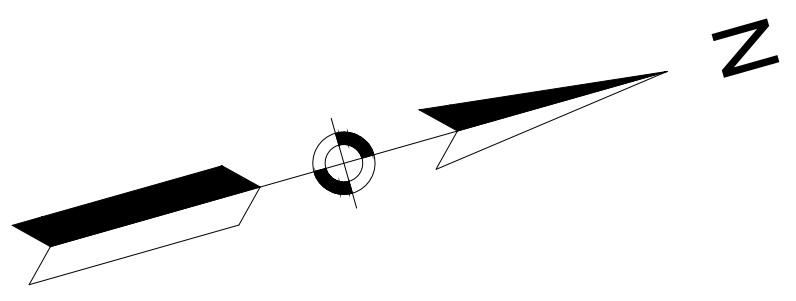
SCALE: 1" = 20'

SUBMISSION: BID SET

DRAWING NO.

**C2.2**





# TWIN CITIES RAIL TRAIL

WATER STREET TO MAIN STREET  
LEOMINSTER, MA

KEY PLAN:

NO.	REVISION	DATE

STAMPED AND SIGNED:



## CONSTRUCTION PLANS PART 4 OF 4

DESIGNED: MEH

DRAWN: CWS CHECKED: JJH

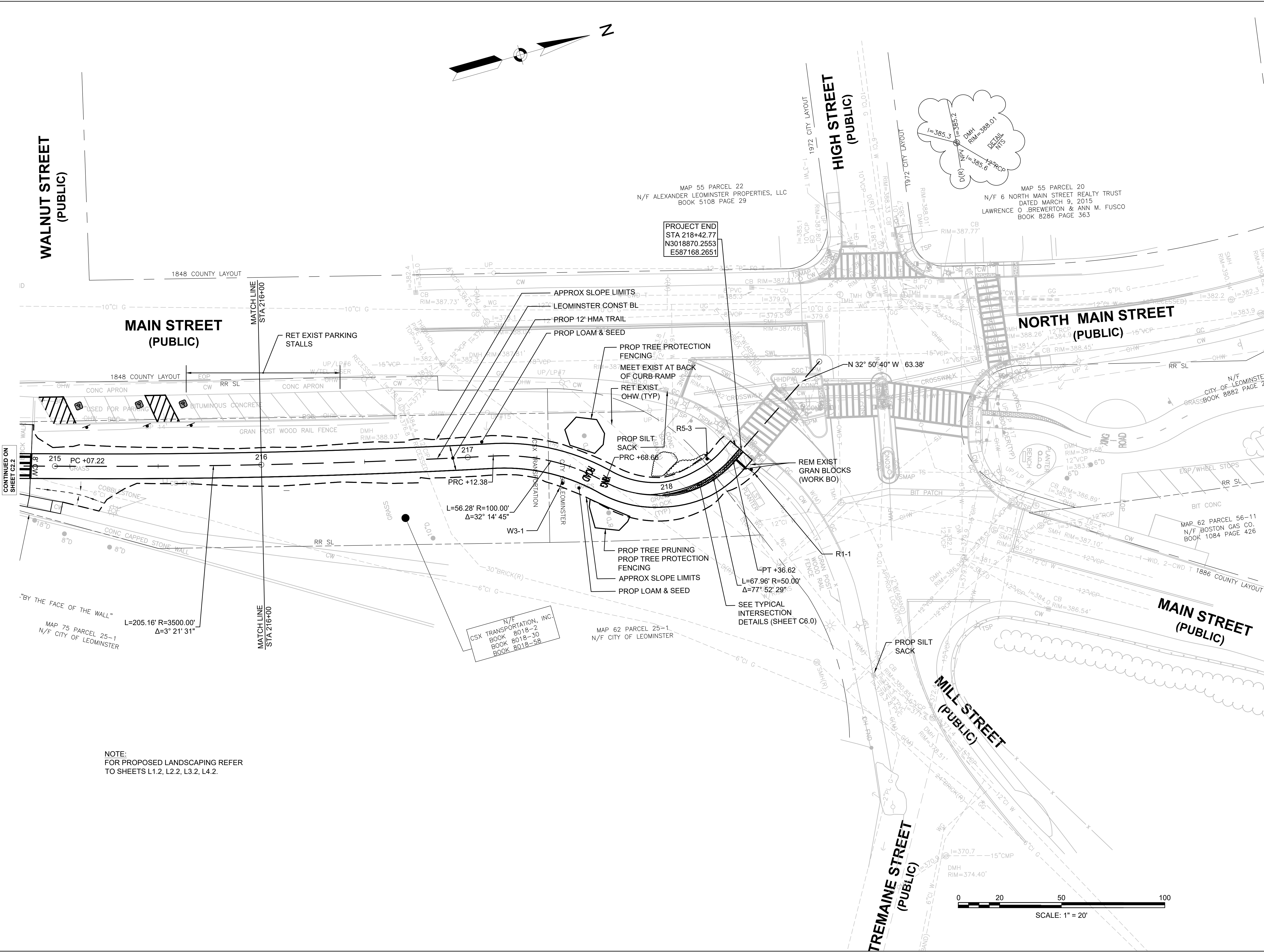
DATE: 12-11-2024

SCALE: 1" = 20'

SUBMISSION: BID SET

DRAWING NO.

# C2.3





# TWIN CITIES RAIL TRAIL

WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA

KEY PLAN:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

## PROFILES PART 1 OF 2

DESIGNED: MEH

DRAWN: CWS CHECKED: JJH

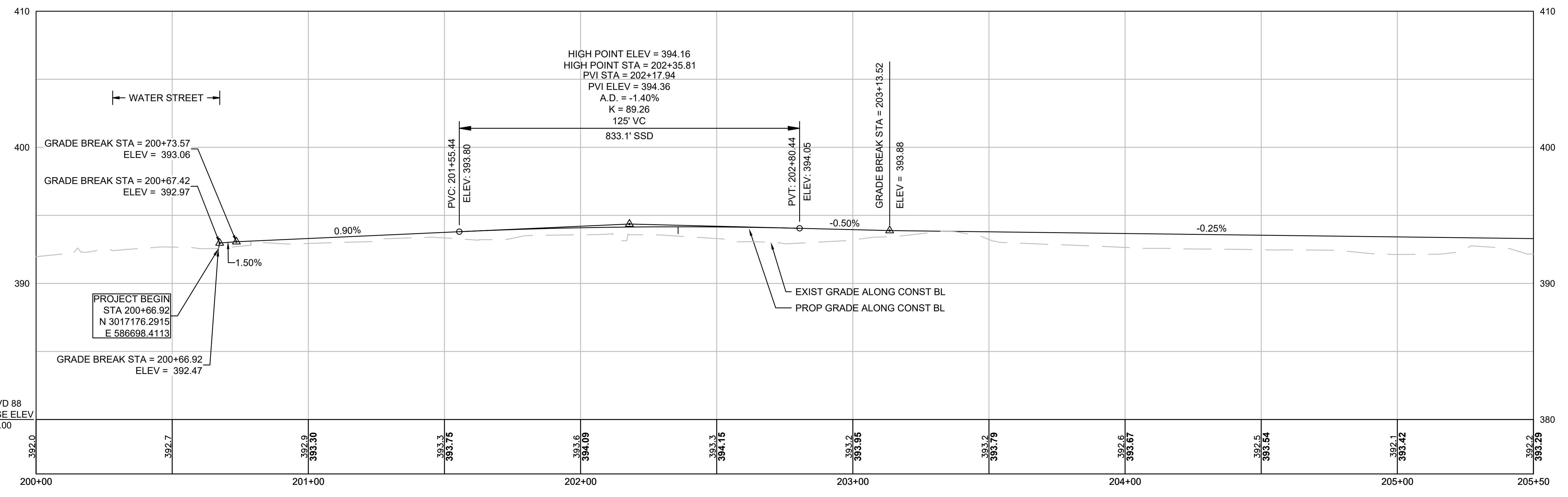
DATE: 12-11-2024

SCALE: HOR. SCALE: 1" = 20'  
VER. SCALE: 1" = 4'

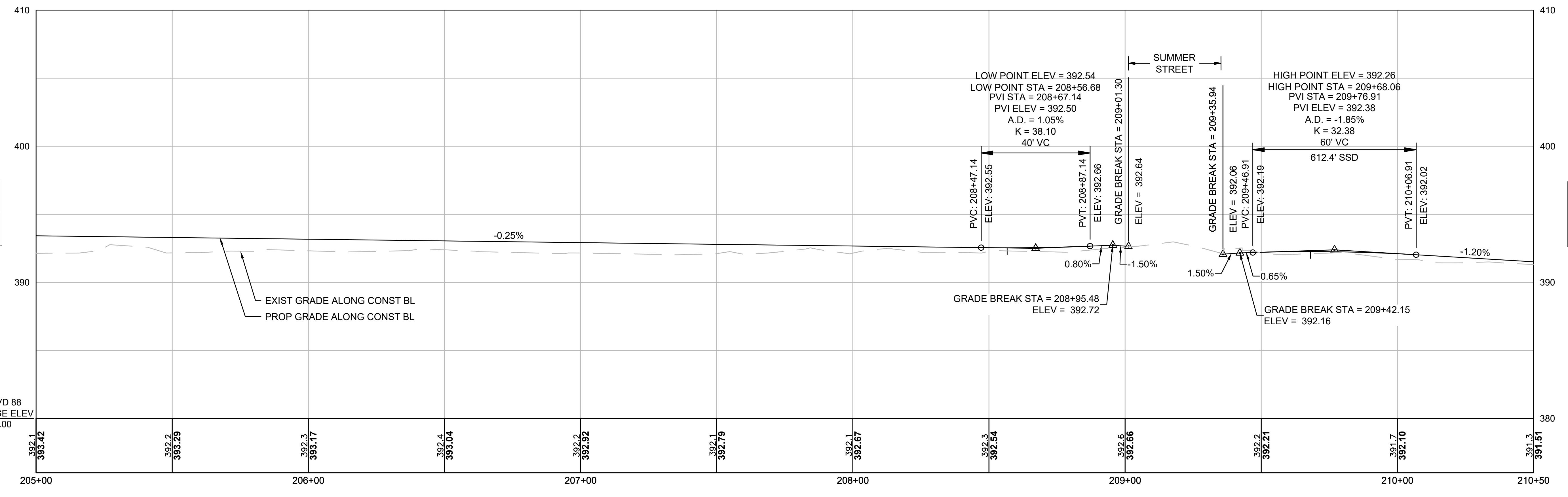
SUBMISSION: BID SET

DRAWING NO.

# C3.0



CONTINUED BELOW



CONTINUED ABOVE

CONTINUED ON SHEET C3.1



# TWIN CITIES RAIL TRAIL

WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA

KEY PLAN:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

## PROFILES PART 2 OF 2

DESIGNED: MEH

DRAWN: CWS CHECKED: JJH

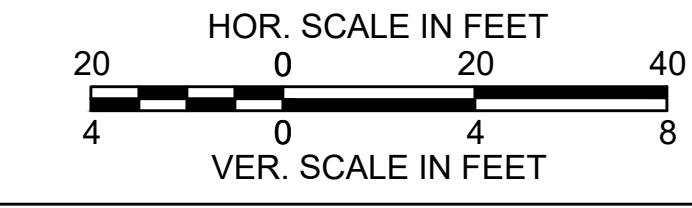
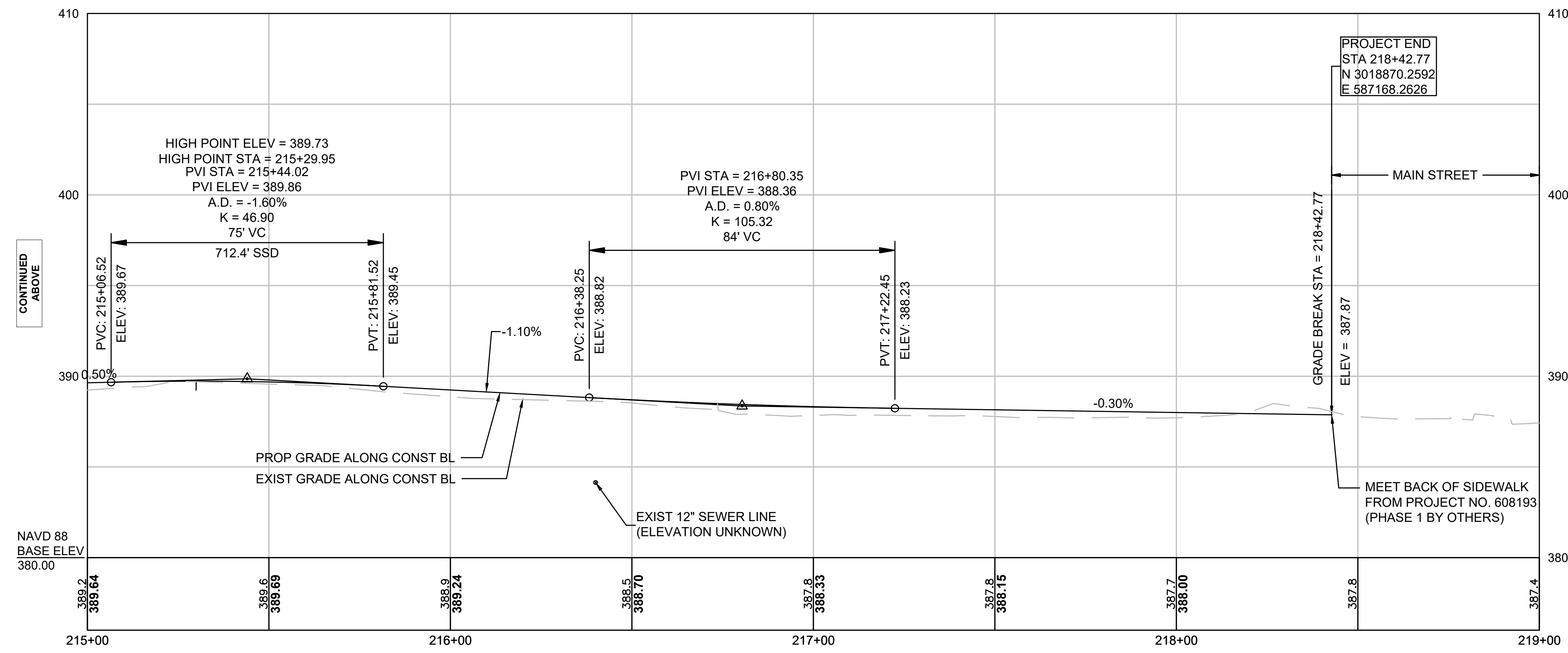
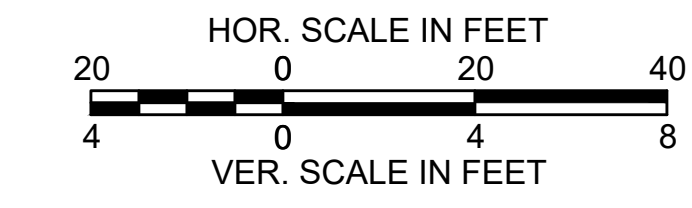
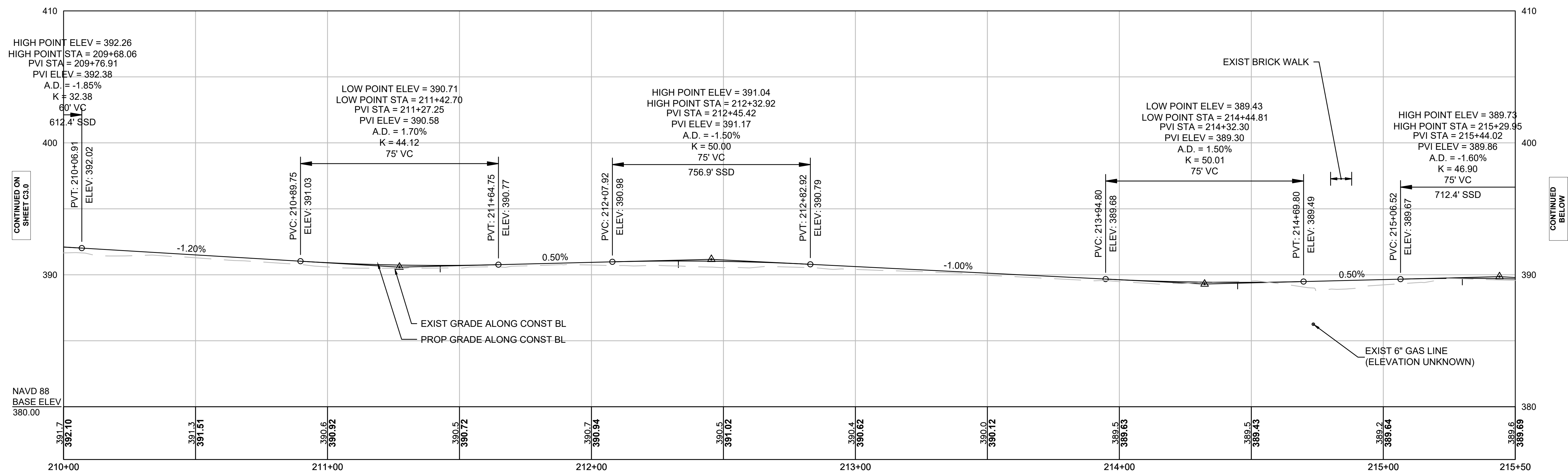
DATE: 12-11-2024

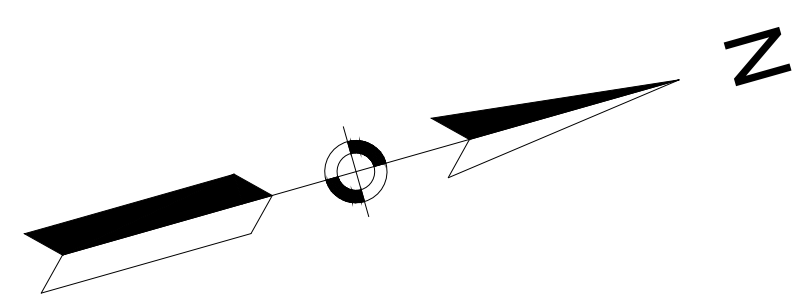
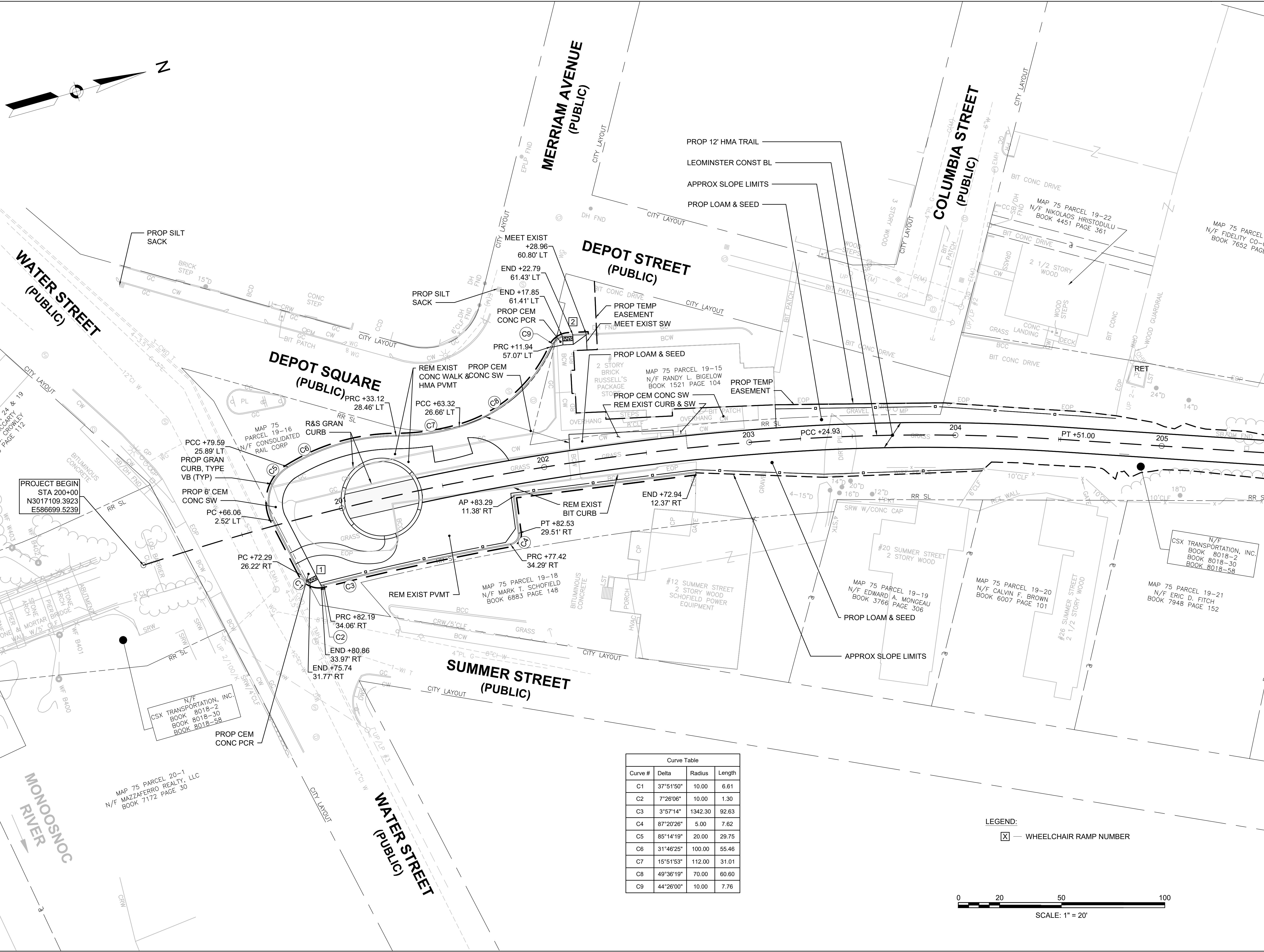
SCALE: HOR. SCALE: 1" = 20'  
VER. SCALE: 1" = 4'

SUBMISSION: BID SET

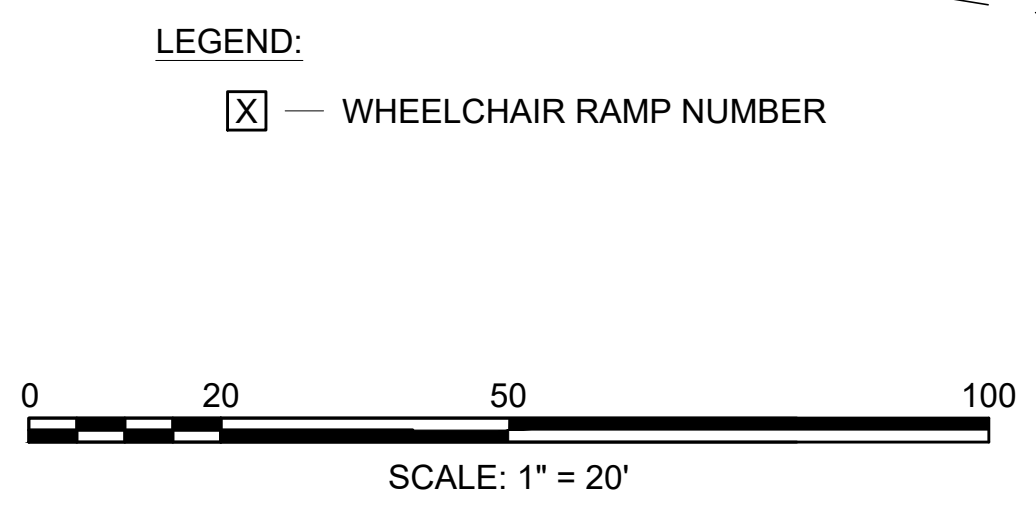
DRAWING NO.

# C3.1





Curve #	Delta	Radius	Length
C1	37°51'50"	10.00	6.61
C2	7°26'06"	10.00	1.30
C3	3°57'14"	1342.30	92.63
C4	87°20'26"	5.00	7.62
C5	85°14'19"	20.00	29.75
C6	31°46'25"	100.00	55.46
C7	15°51'53"	112.00	31.01
C8	49°36'19"	70.00	60.60
C9	44°26'00"	10.00	7.76



# TWIN CITIES RAIL TRAIL

WATER STREET TO MAIN STREET  
LEOMINSTER, MA

KEY PLAN:

ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

DRAWING TITLE:

## CURB TIE PLAN

DESIGNED: MEH

DRAWN: CWS CHECKED: JJH

DATE: 12-11-2024

SCALE: 1" = 20'

SUBMISSION: BID SET

DRAWING NO.

# C4.0



**TWIN CITIES  
RAIL TRAIL**

WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA

KEY PLAN:

ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

**TRAFFIC SIGN  
SUMMARY**

DESIGNED: MEH

DRAWN: CWS CHECKED: JJH

DATE: 12-11-2024

SCALE: NOT TO SCALE

SUBMISSION: BID SET

DRAWING NO.

**C5.0**

**TRAFFIC SIGN SUMMARY**

IDENTIFI- CATION NUMBER	SIZE OF SIGN		UNIT AREA (SF)	TEXT	TEXT DIMENSIONS			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	AREA IN SQUARE FEET
	WIDTH	HEIGHT			LETTER HEIGHT	VERTICAL SPACING	ARROW		BACK- GROUND	LEGEND	BORDER		
D11-1d	24"	24"	4.00		2009 MUTCD	2009 MUTCD	2009 MUTCD	2	GREEN	WHITE	WHITE	1-P5 2	8.00
M6-4	12"	9"	0.75					2	GREEN	WHITE	WHITE	MOUNT 2 WITH D11-1d	1.50
R1-1 (PATH)	18"	18"	2.25					3	RED	WHITE	WHITE	1-P5 3	6.75
R5-3	24"	24"	4.00					3	WHITE	BLACK	BLACK	1-P5 3	12.00
R7-8	12"	18"	1.50					3	WHITE	GREEN / BLUE	GREEN	1-P5 3	4.50
R7-8p	18"	9"	1.125					3	WHITE	GREEN	GREEN	MOUNT 3 WITH R7-8	3.375
W3-1	18"	18"	2.25					3	YELLOW	BLACK	BLACK	1-P5 3	6.75
W11-15	30"	30"	6.25					5	FLOUR YELLOW- GREEN	BLACK	BLACK	1-P5 3 (MOUNT BACK TO BACK)	31.25
W16-7pL	24"	12"	2.00					2	FLOUR YELLOW- GREEN	BLACK	BLACK	MOUNT 2 WITH W11-15	4.00
W16-7pR	24"	12"	2.00					2	FLOUR YELLOW- GREEN	BLACK	BLACK	MOUNT 2 WITH W11-15	4.00
W16-9p	24"	12"	2.00					1	FLOUR YELLOW- GREEN	GREEN / BLUE	GREEN	1-P5 1	2.00





**TWIN CITIES RAIL TRAIL**

WATER STREET TO MAIN STREET  
LEOMINSTER, MA

KEY PLAN:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

**CONSTRUCTION DETAILS PART 1 OF 3**

DESIGNED: MEH

DRAWN: CWS CHECKED: JJH

DATE: 12-11-2024

SCALE: NOT TO SCALE

SUBMISSION: BID SET

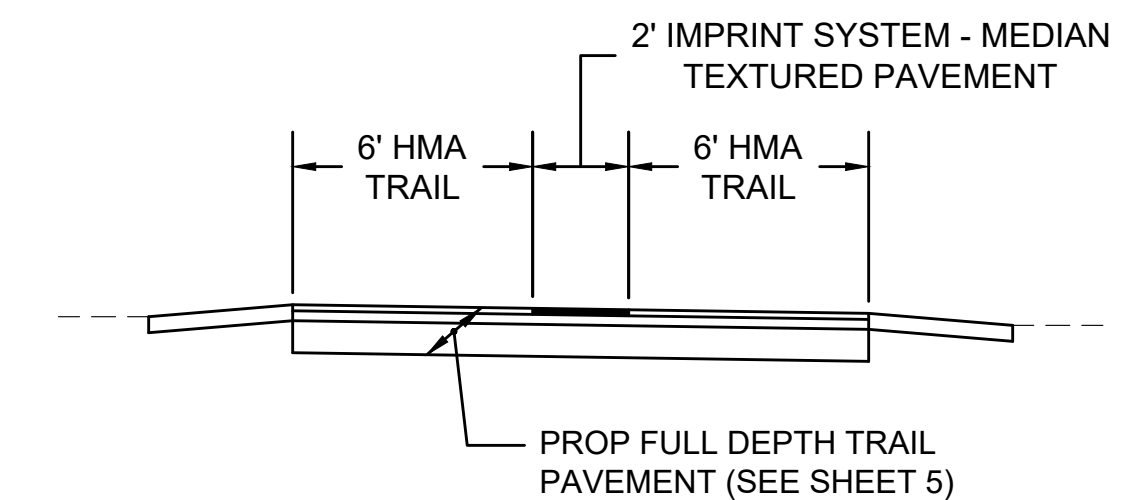
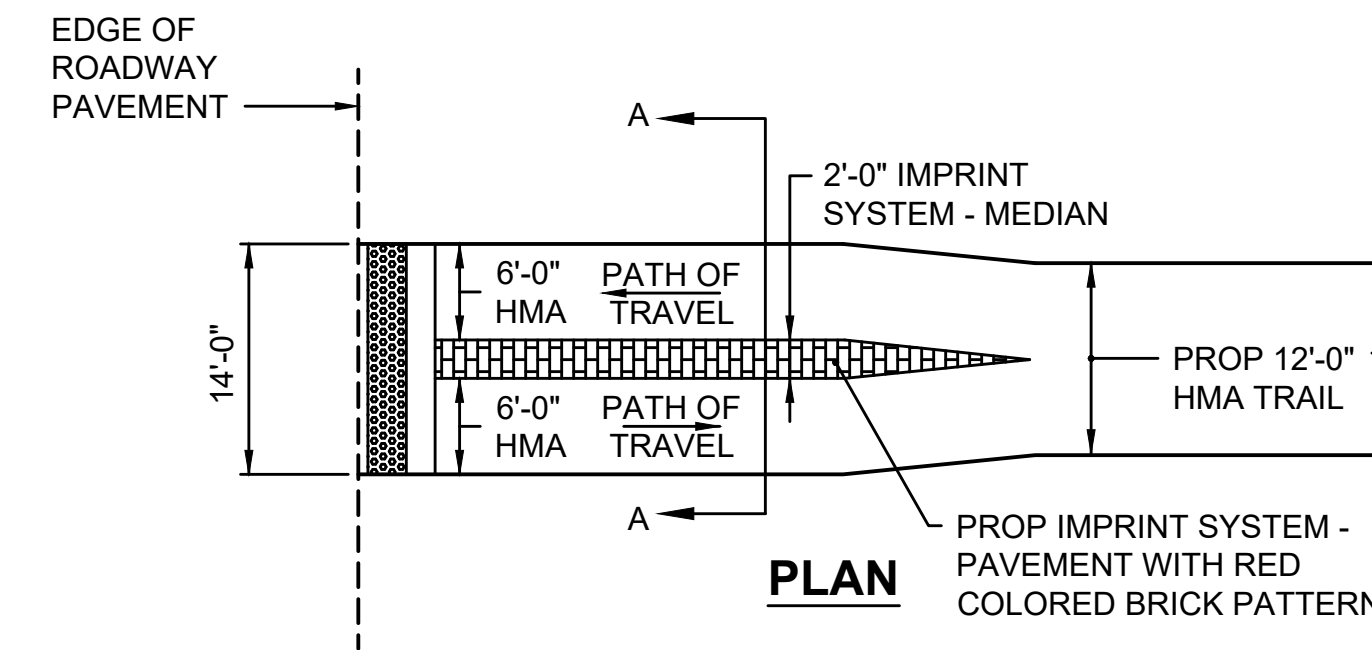
DRAWING NO.

**C6.0**

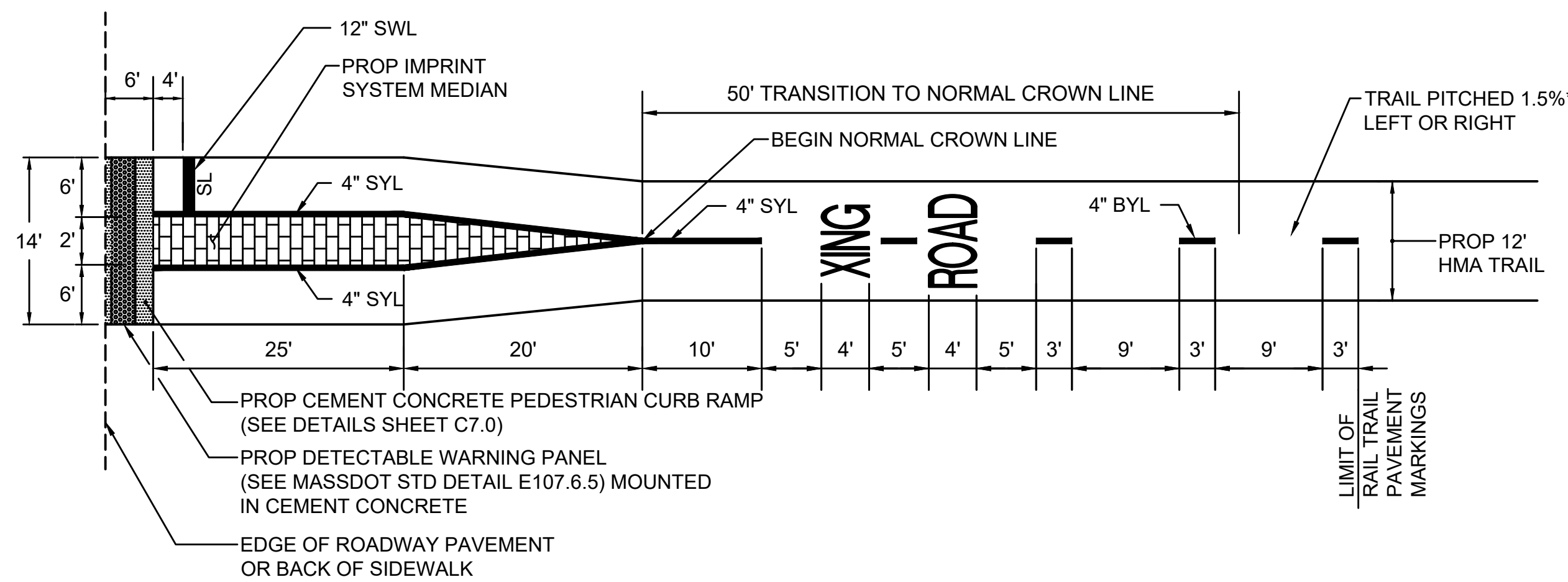


ACCESSIBILITY PARKING SPACE MARKING -  
24"x28" WHITE SYMBOL (3" STROKE WIDTH) ON  
36"x36" BLUE MARKING (BACKGROUND) WITH 3" WHITE BORDER  
(SEE FHWA STANDARD HIGHWAY SIGNS TEMPLATE)

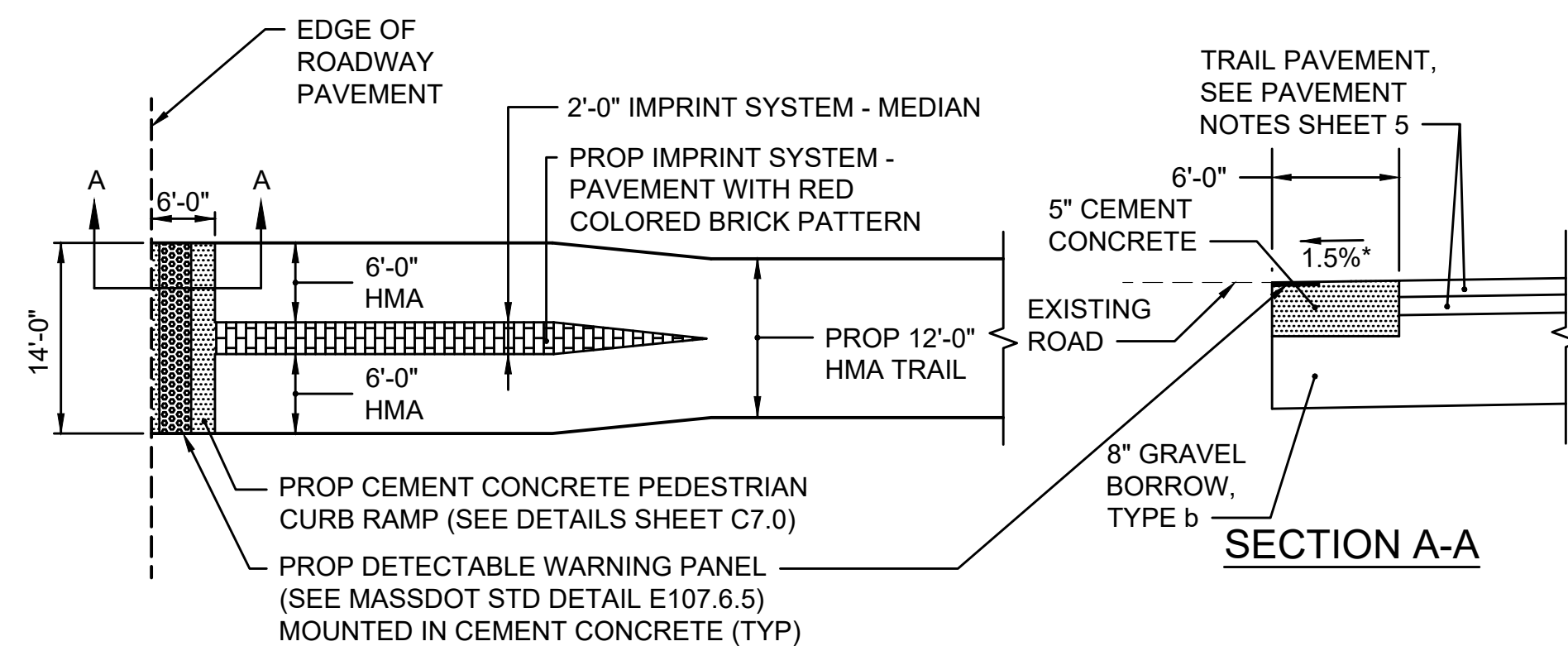
**ACCESSIBILITY PARKING SPACE MARKING**  
NOT TO SCALE



**SECTION A-A**  
**IMPRINT SYSTEM - MEDIAN**  
NOT TO SCALE



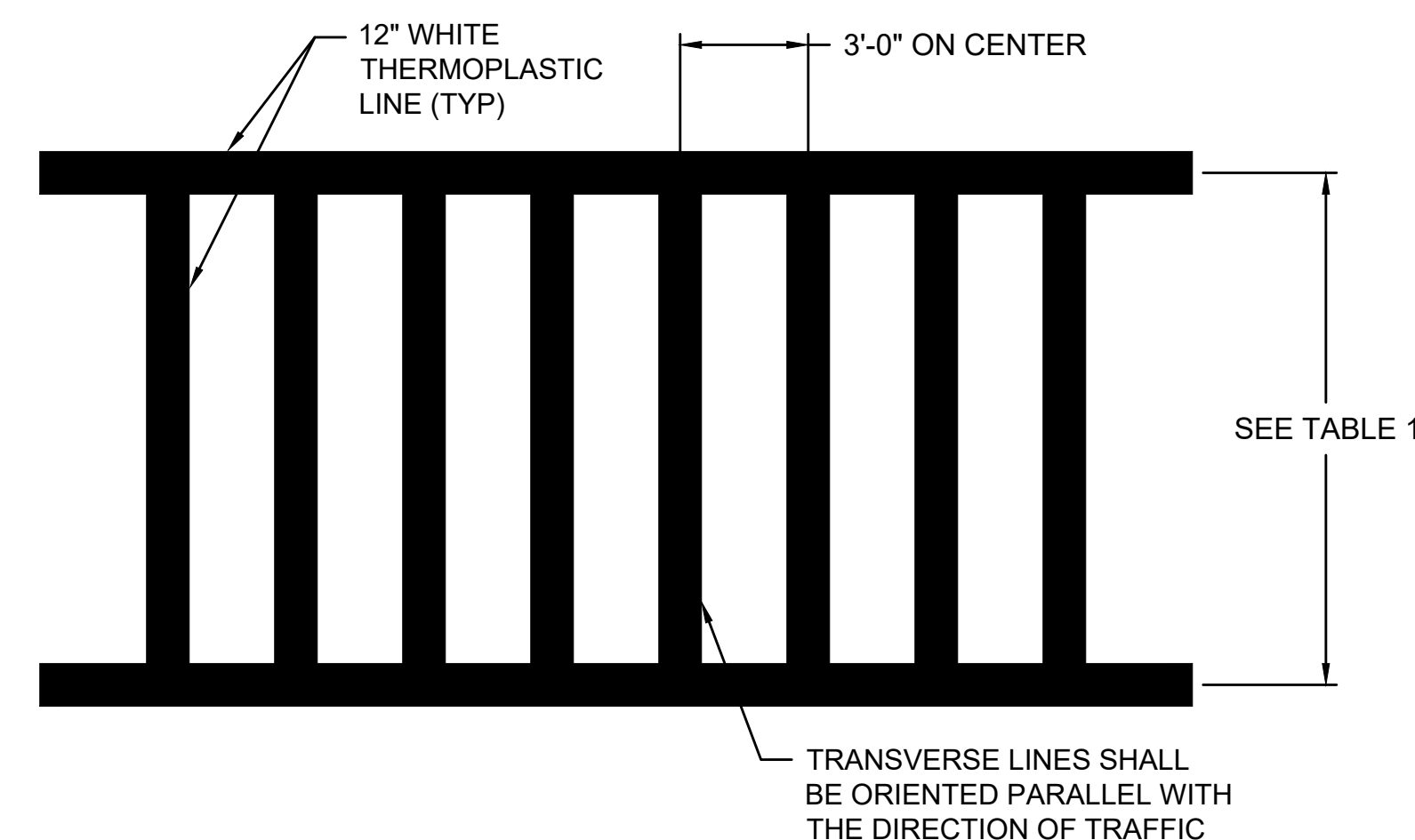
**INTERSECTION APPROACH PAVEMENT MARKING DETAIL**  
NOT TO SCALE



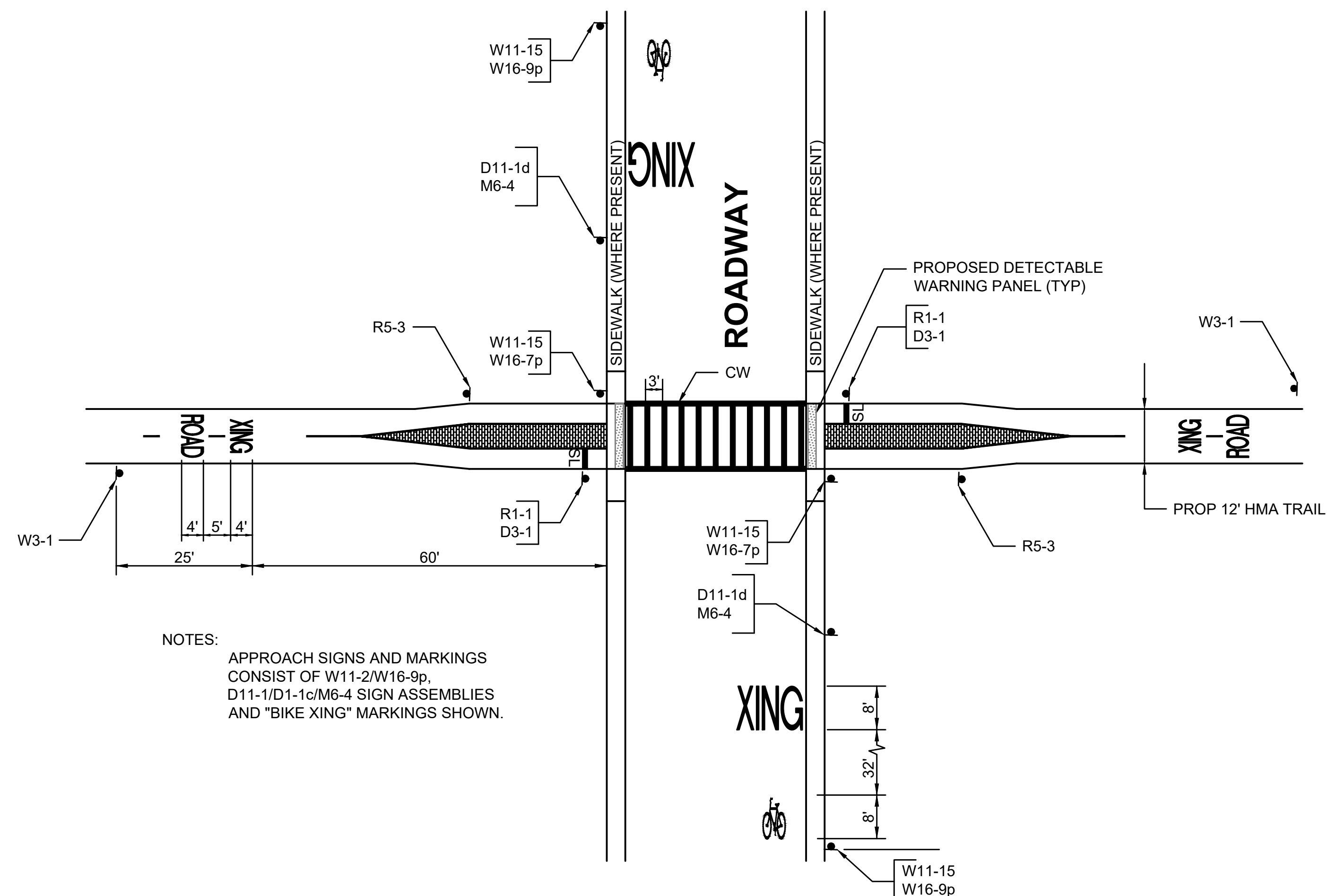
**PLAN**  
**DETECTABLE WARNING PANEL AT TRAIL INTERSECTION**  
NOT TO SCALE

- NOTES:
1. ALL DETECTABLE WARNING PANELS (PROJECT WIDE) SHALL BE MOUNTED IN CEMENT CONCRETE.
  2. DETECTABLE WARNING PANELS SHALL CONFORM TO MASSDOT STANDARD DETAIL E107.6.5.

LOCATION	CROSSWALK WIDTH
SUMMER STREET	14'-0"
CARTER PARK	8'-0"



**CROSSWALK (CW) MARKING DETAIL**  
NOT TO SCALE



- NOTES:
- APPROACH SIGNS AND MARKINGS CONSIST OF W11-2/W16-9p, D11-1/D1-1c/M6-4 SIGN ASSEMBLIES AND "BIKE XING" MARKINGS SHOWN.

**TYPICAL INTERSECTION SIGNS AND MARKINGS**  
NOT TO SCALE



**TWIN CITIES  
RAIL TRAIL**

WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA

KEY PLAN:

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DRAWING TITLE:

**CONSTRUCTION  
DETAILS  
PART 2 OF 3**

DESIGNED: MEH

DRAWN: CWS

CHECKED: JJH

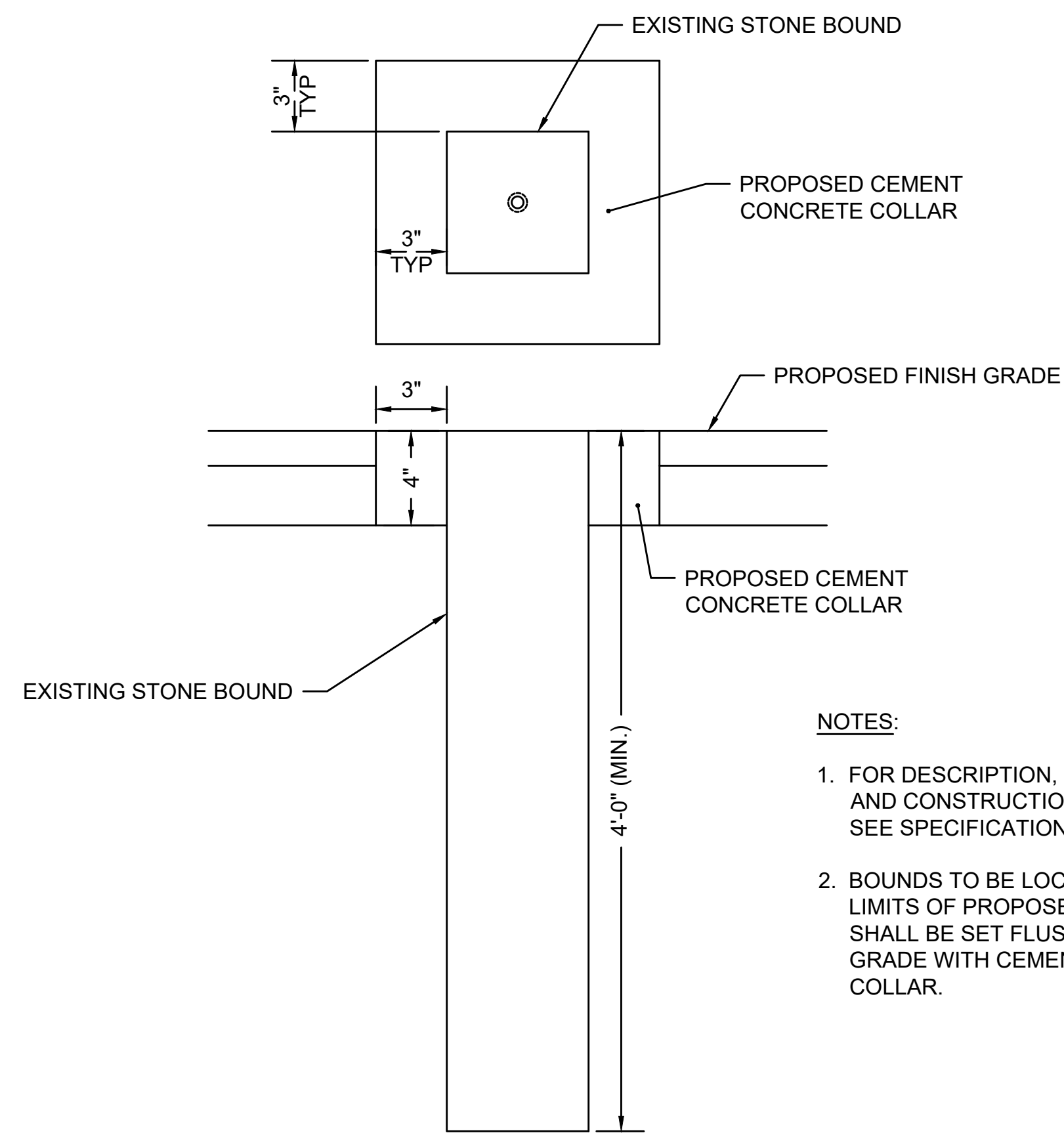
DATE: 12-11-2024

SCALE: NOT TO SCALE

SUBMISSION: BID SET

DRAWING NO.

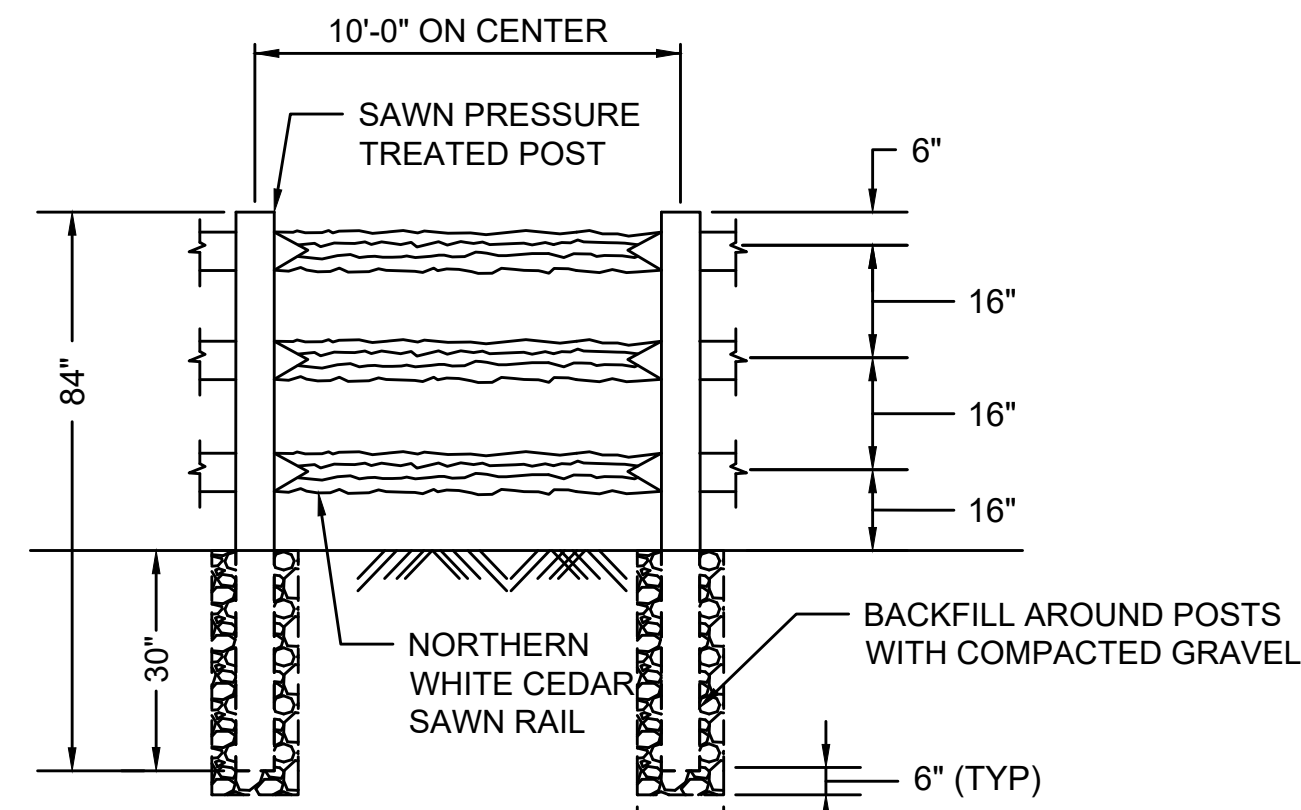
**C6.1**



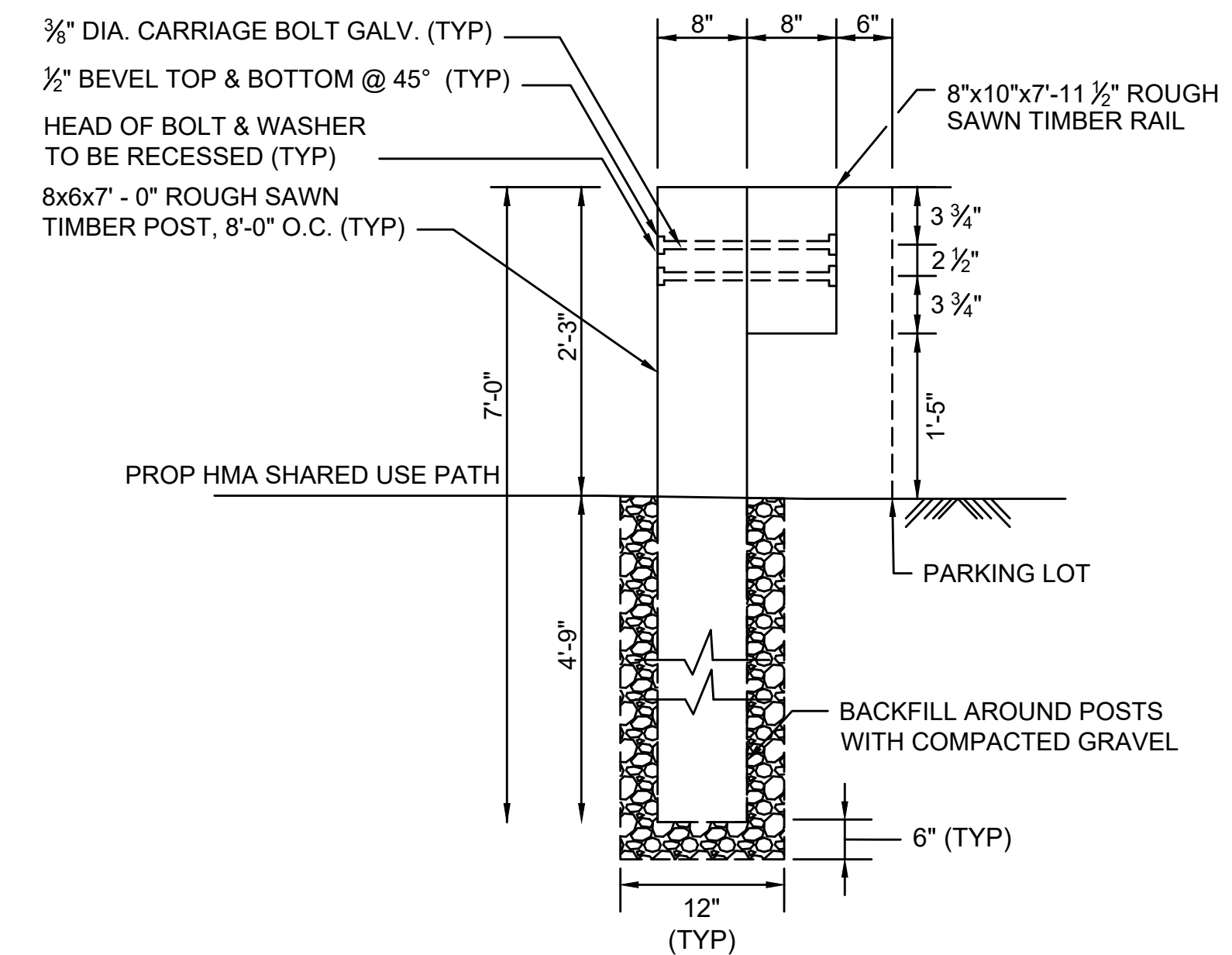
**GRANITE BOUND RESET  
IN PAVEMENT DETAIL**  
NOT TO SCALE

**NOTES:**

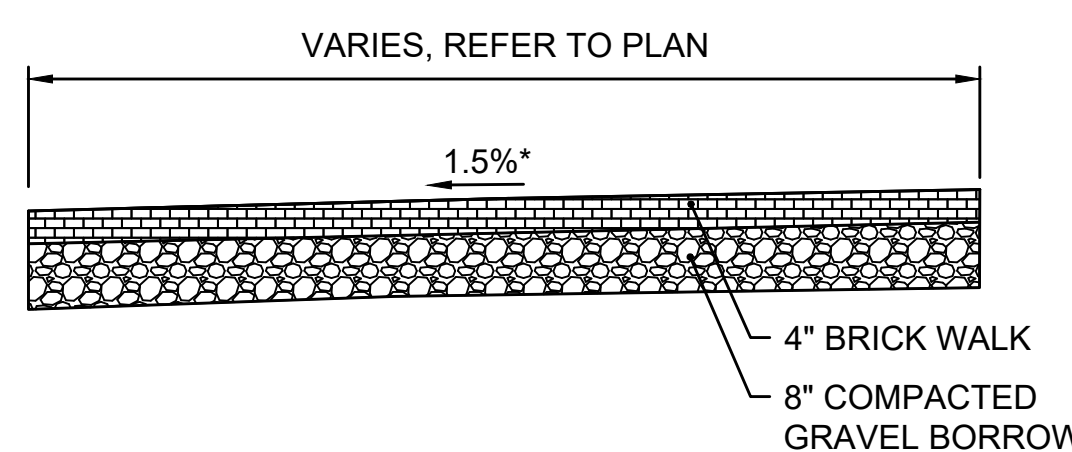
- FOR DESCRIPTION, MATERIALS AND CONSTRUCTION METHODS SEE SPECIFICATIONS.
- BOUNDS TO BE LOCATED WITHIN LIMITS OF PROPOSED HMA PATH SHALL BE SET FLUSH TO FINISH GRADE WITH CEMENT CONCRETE COLLAR.



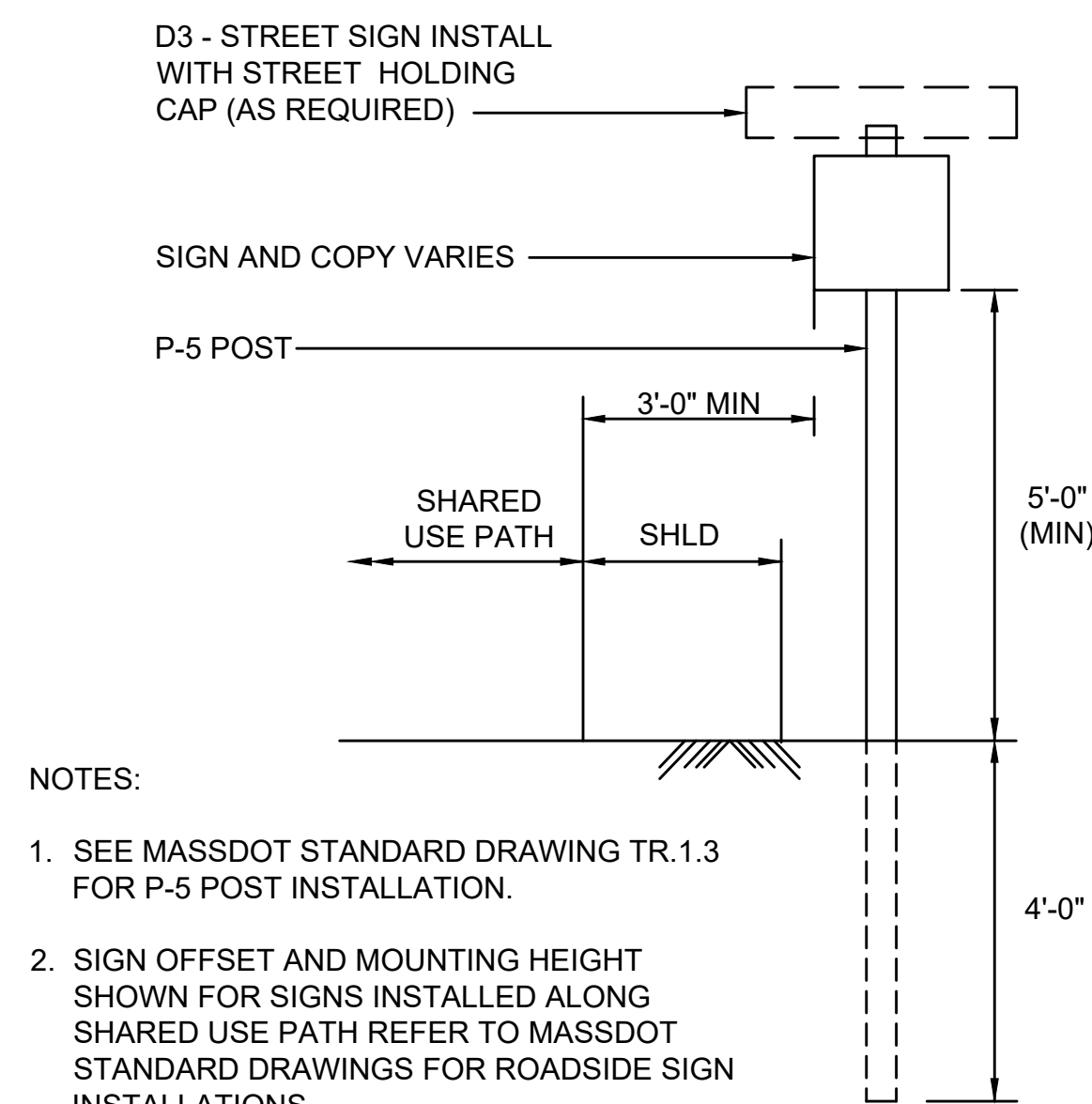
**SPLIT RAIL FENCE**  
NOT TO SCALE



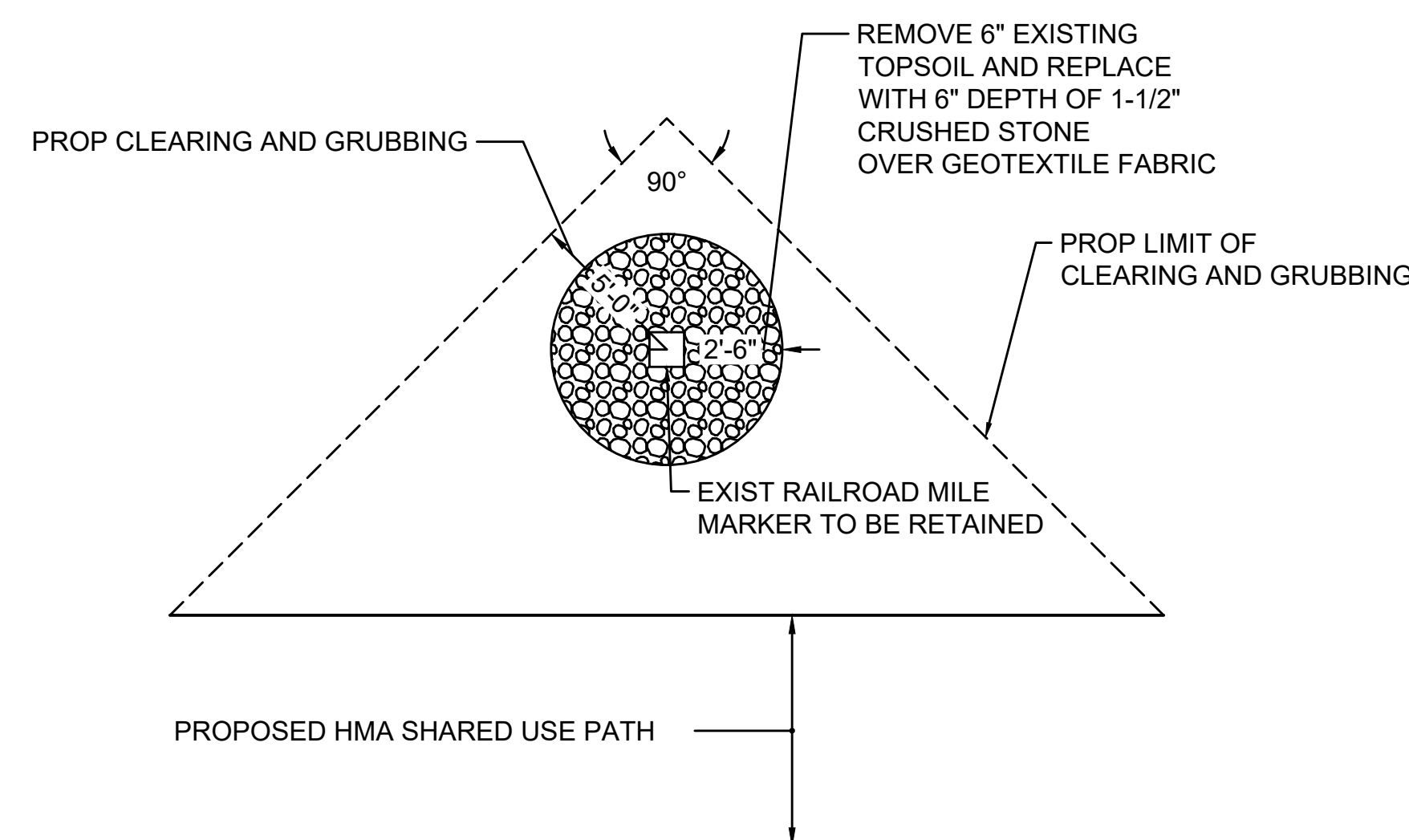
**WOOD GUARDRAIL DETAIL**  
NOT TO SCALE



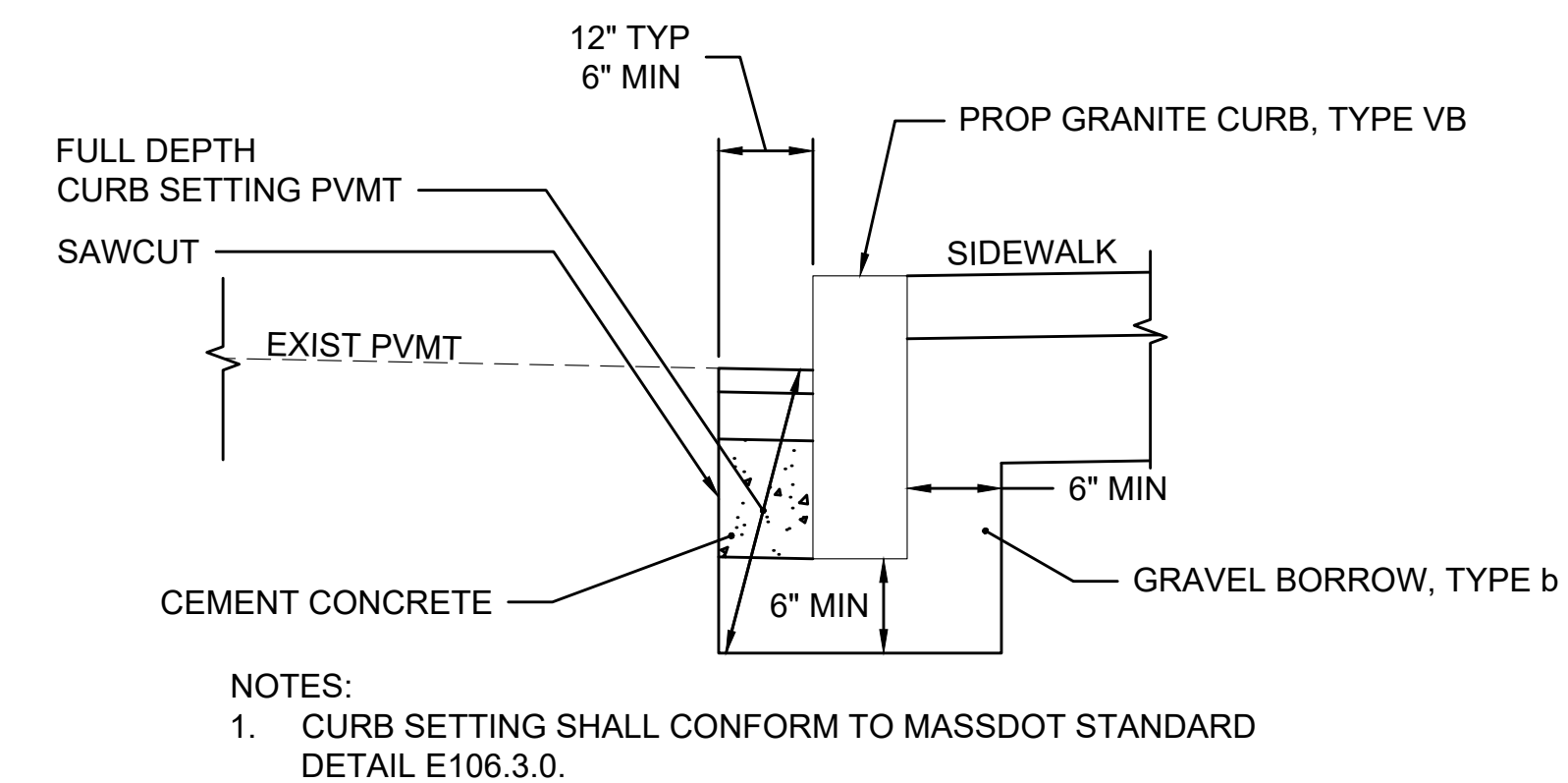
**REMOVE AND RELAY EXISTING BRICK WALK**  
NOT TO SCALE



**TYPICAL SIGN LOCATION**  
NOT TO SCALE



**TREATMENT AT EXISTING RAILROAD WHISTLE POST**  
NOT TO SCALE



**METHOD OF SETTING VERTICAL GRANITE CURB  
(AGAINST EXISTING PAVEMENT)**  
NOT TO SCALE





**TWIN CITIES  
RAIL TRAIL**

WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA

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STAMPED AND SIGNED:



DRAWING TITLE:

**CONSTRUCTION  
DETAILS  
PART 3 OF 3**

DESIGNED: MEH

DRAWN: CWS CHECKED: JJH

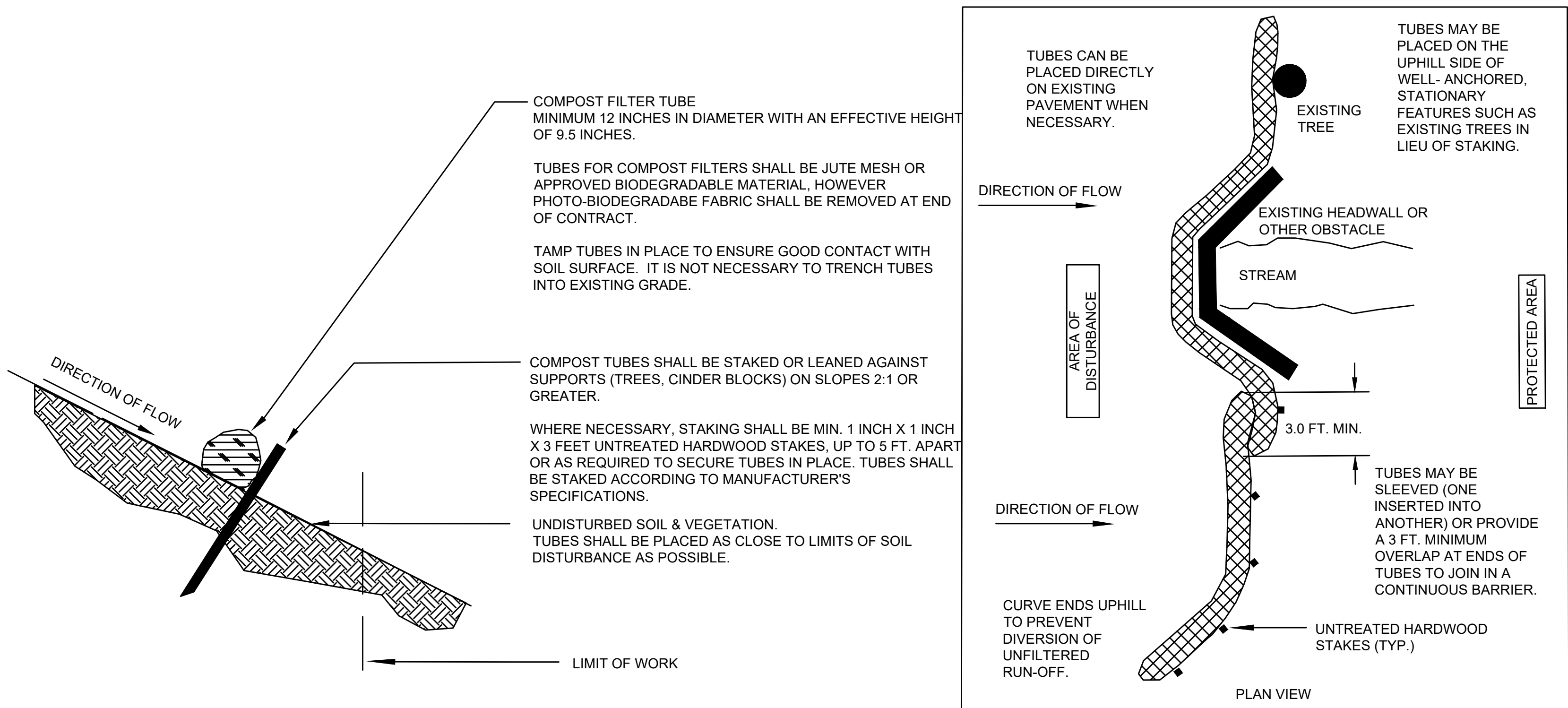
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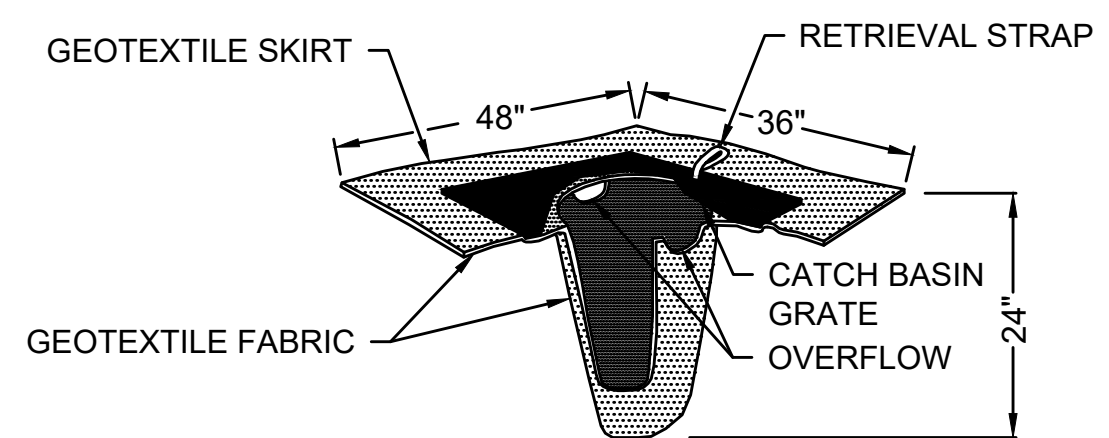
SUBMISSION: BID SET

DRAWING NO.

**C6.2**



- GENERAL NOTES:
1. PROVIDE A MINIMUM TUBE DIAMETER OF 12 INCHES FOR SLOPES UP TO 50 FEET IN LENGTH WITH A SLOPE RATIO OF 3H:1V OR STEEPER. LONGER SLOPES OF 3H:1V MAY REQUIRE LARGER TUBE DIAMETER OR ADDITIONAL COURSING OF FILTER TUBES TO CREATE A FILTER BERM. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SITUATIONS WITH LONGER OR STEEPER SLOPES.
  2. INSTALL TUBES ALONG CONTOURS AND PERPENDICULAR TO SHEET OR CONCENTRATED FLOW.
  3. TUBE LOCATION MAY BE SHIFTED TO ADJUST TO LANDSCAPE FEATURES, BUT SHALL PROTECT UNDISTURBED AREA AND VEGETATION TO MAXIMUM EXTENT POSSIBLE.
  4. DO NOT INSTALL IN PERENNIAL, EPHEMERAL OR INTERMITTENT STREAMS.
  5. ADDITIONAL TUBES SHALL BE USED AT THE DIRECTION OF THE ENGINEER.
  6. ADDITIONAL STAKING SHALL BE USED AT THE DIRECTION OF THE ENGINEER.





**TWIN CITIES  
RAIL TRAIL**

WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA

KEY PLAN:

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STAMPED AND SIGNED:



DRAWING TITLE:

**CURB RAMP  
DETAILS**

DESIGNED: MEH

DRAWN: CWS CHECKED: JJH

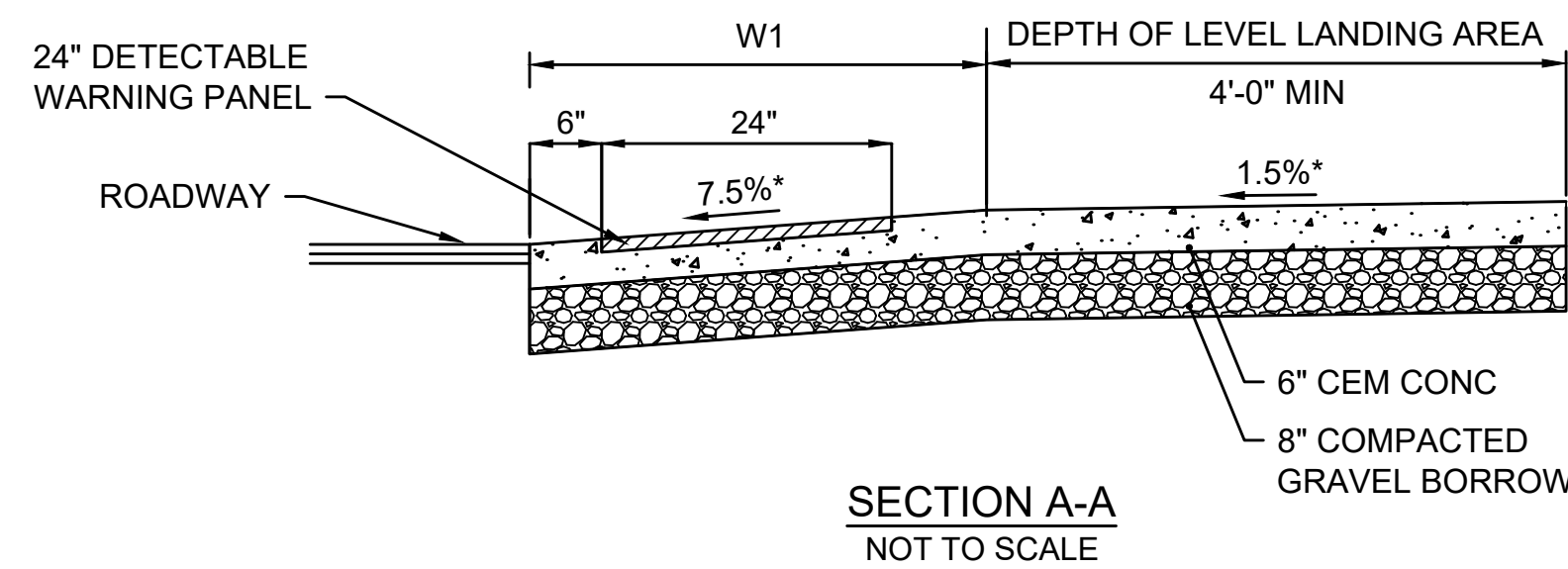
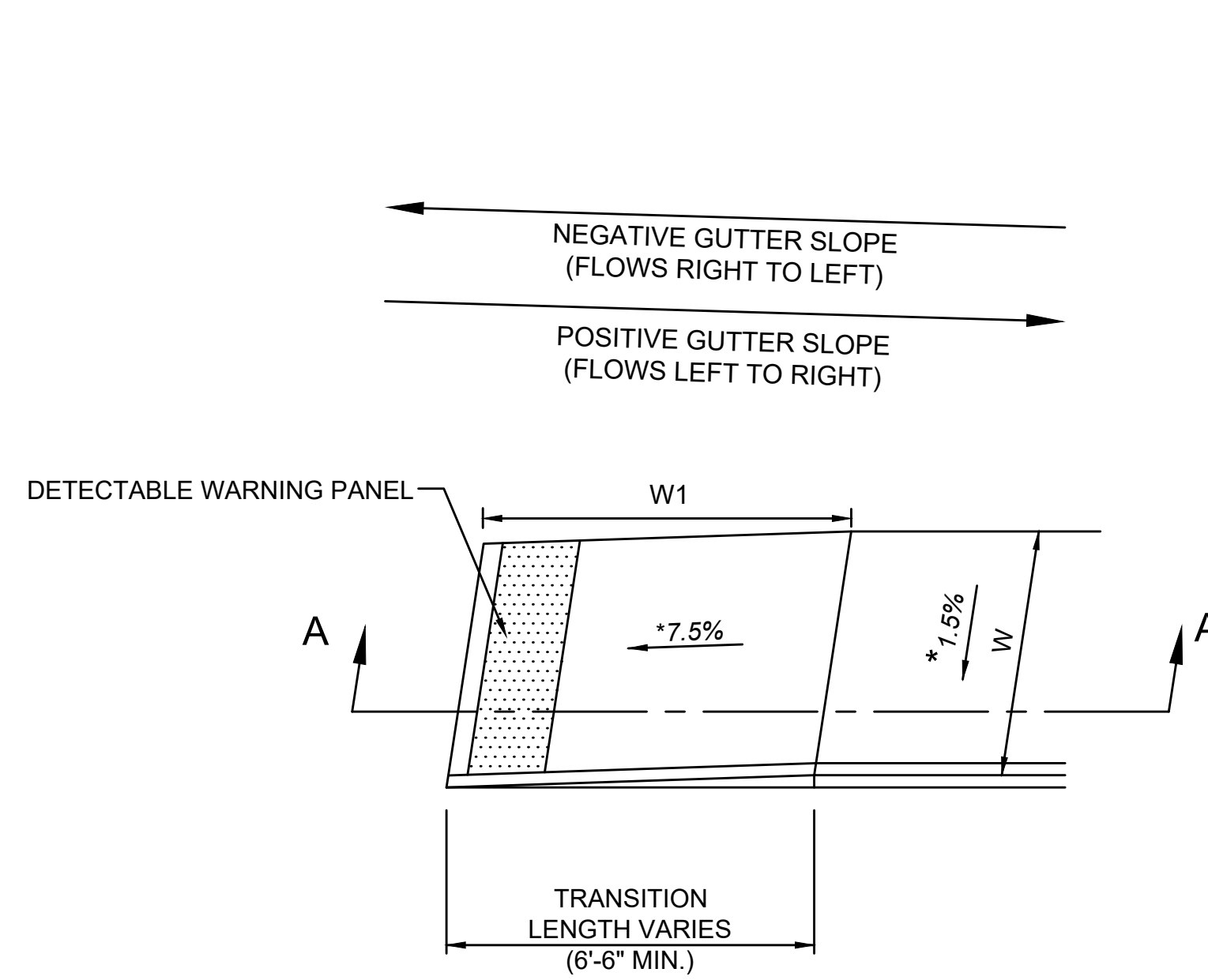
DATE: 12-11-2024

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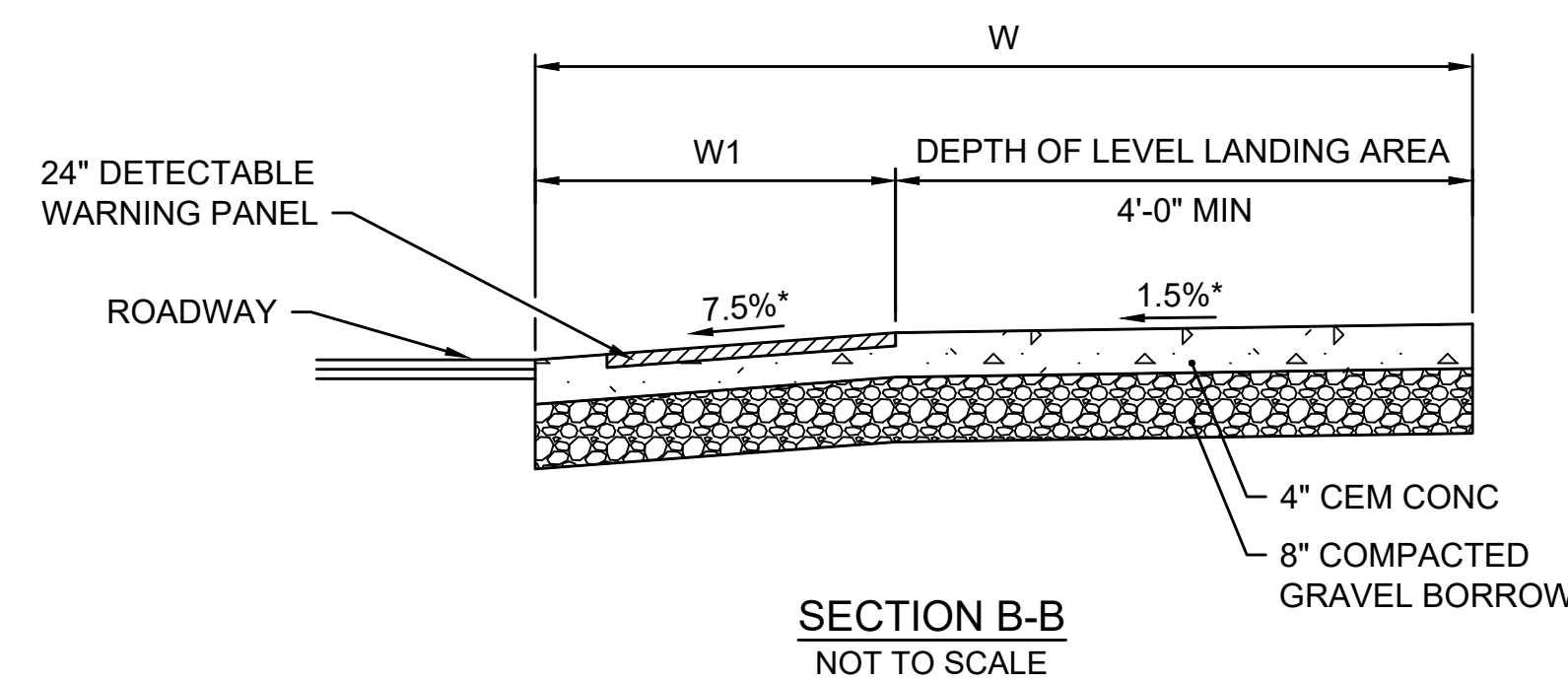
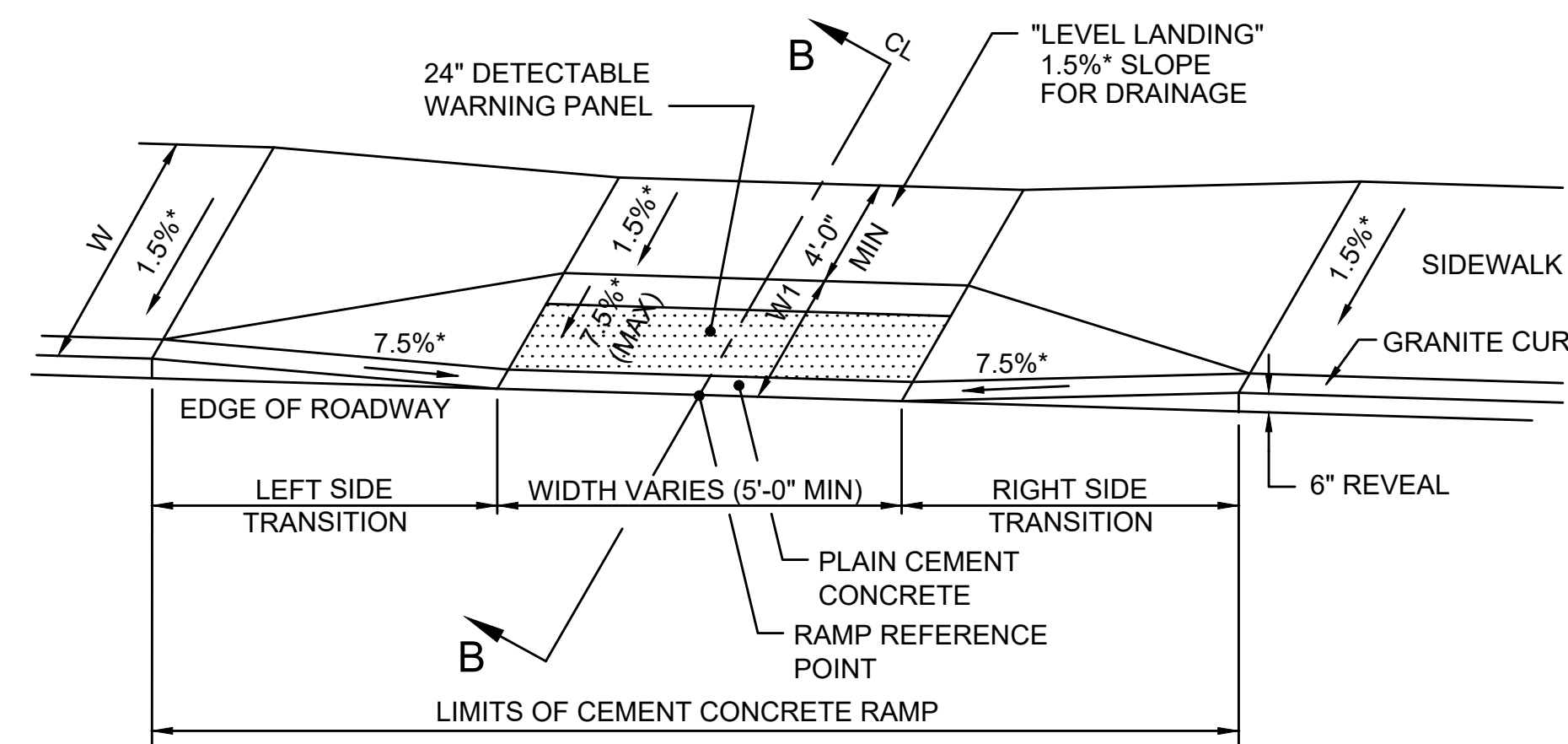
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DRAWING NO.

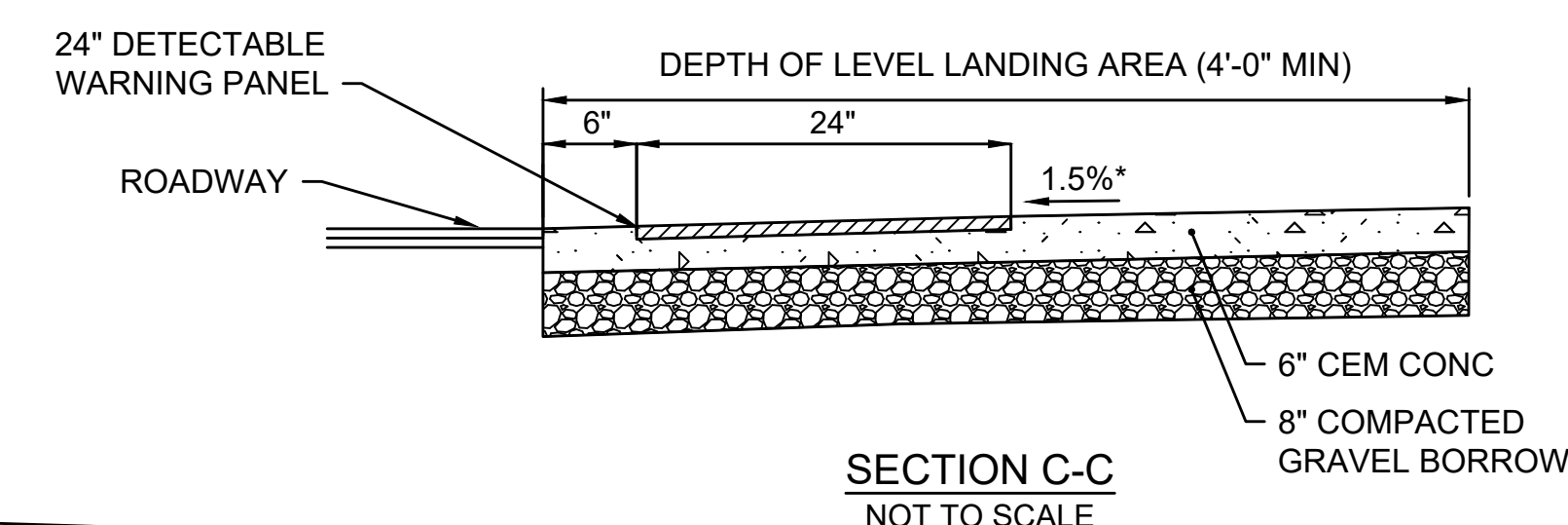
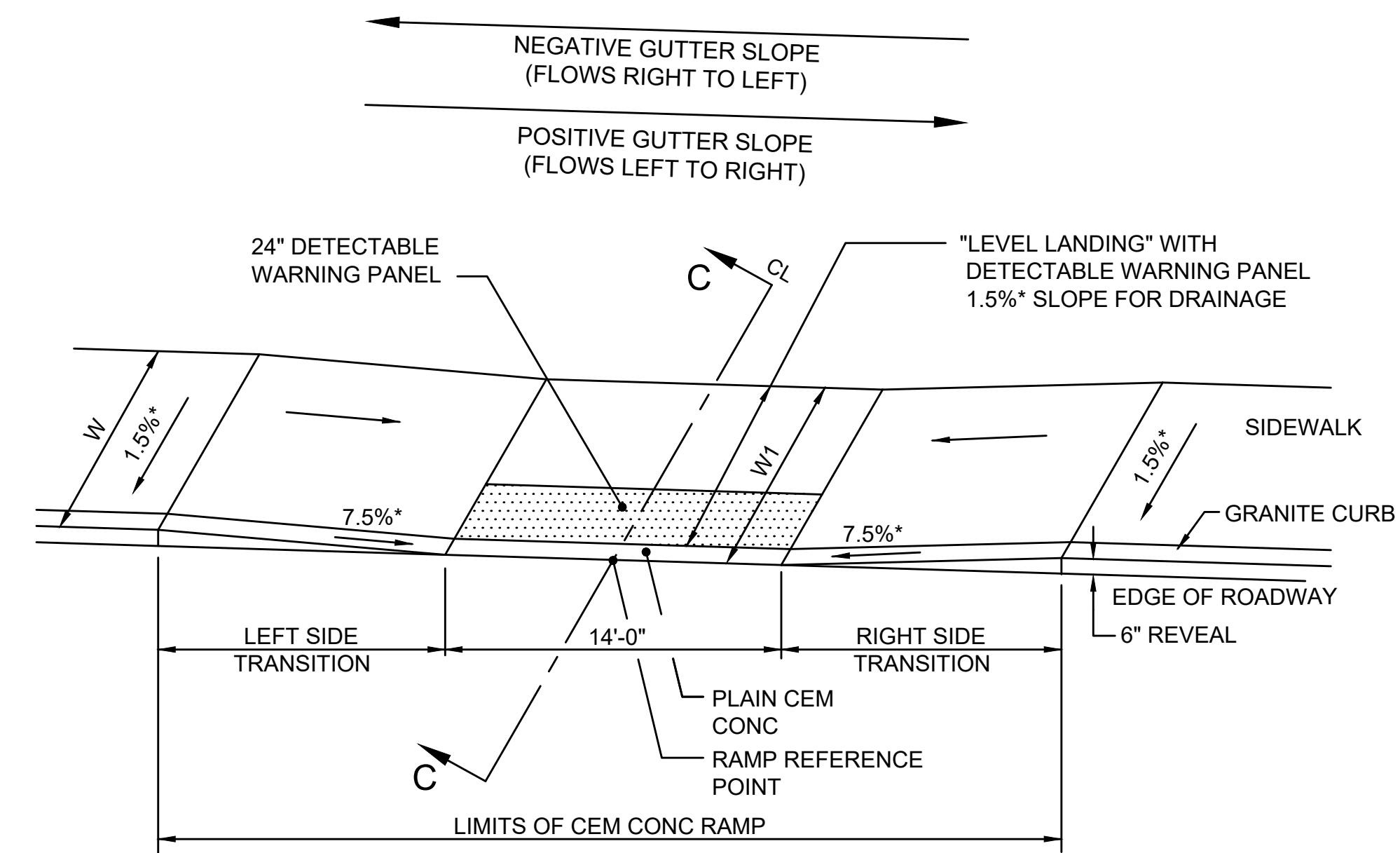
**C7.0**



**PEDESTRIAN CURB RAMP DETAIL - TYPE A**  
NOT TO SCALE



**PEDESTRIAN CURB RAMP DETAIL - TYPE B**  
NOT TO SCALE



**PEDESTRIAN CURB RAMP DETAIL - TYPE C**  
NOT TO SCALE

PEDESTRIAN CURB RAMPS												
PCR #	TYPE	RAMP REFERENCE POINT			LENGTH OF PRIMARY RAMP (W1)	WIDTH OF SIDEWALK (W)	WIDTH OF RAMP OPENING	DEPTH OF LEVEL LANDING	ROADWAY GUTTER SLOPE	RAMP MATERIAL	TRANSITION LENGTH	
		BASELINE	STATION	OFFSET							LEFT SIDE	RIGHT SIDE
1	A	LEOMINSTER	200+76	29.13', RT	5.50'	6.00'	4.00'	4.50'	3.35%	CEM CONC	15'-0"	6'-6"
2	B	LEOMINSTER	202+20	58.70', LT	4.31'	7.50'	5.00'	4.00'	-1.81%	CEM CONC	6'-6"	7'-8"
3	C	LEOMINSTER	208+99	0.00'	6.00'	6.00'	14.00'	6.00'	-0.71%	CEM CONC	N/A	N/A
4	C	LEOMINSTER	209+39	0.00'	6.75'	6.75'	14.00'	6.75'	0.47%	CEM CONC	6'-6"	7'-8"

NOTES:

- PEDESTRIAN CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MASSDOT CONSTRUCTION STANDARD DRAWINGS NUMBERED 107.2.0, 107.2.1, 107.6.0, 107.6.4, 107.6.5, 107.7.0 AND 107.9.0 AND ADA/ MA AAB REQUIREMENTS.
- DETECTABLE WARNING PANELS ARE REQUIRED ON ALL PROPOSED PEDESTRIAN RAMPS AND ARE TO BE INSTALLED IN ACCORDANCE WITH CONSTRUCTION STANDARD 107.6.5. DETECTABLE WARNING PANELS SHALL BE PLACED PERPENDICULAR TO THE PATH OF TRAVEL AND NOT THE CURB LINE.

\* TOLERANCE FOR CONSTRUCTION ±0.5% (TYP.)



**TWIN CITIES  
RAIL TRAIL**

WATER STREET TO  
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DRAWING TITLE:

**CROSS SECTIONS  
PART 1 OF 11**

DESIGNED: MEH

DRAWN: CWS CHECKED: JJH

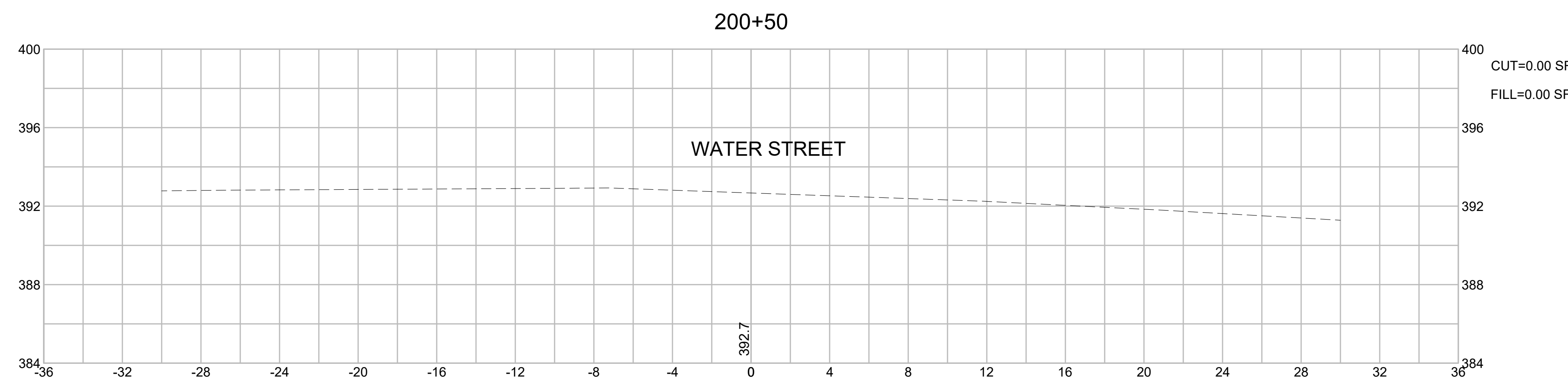
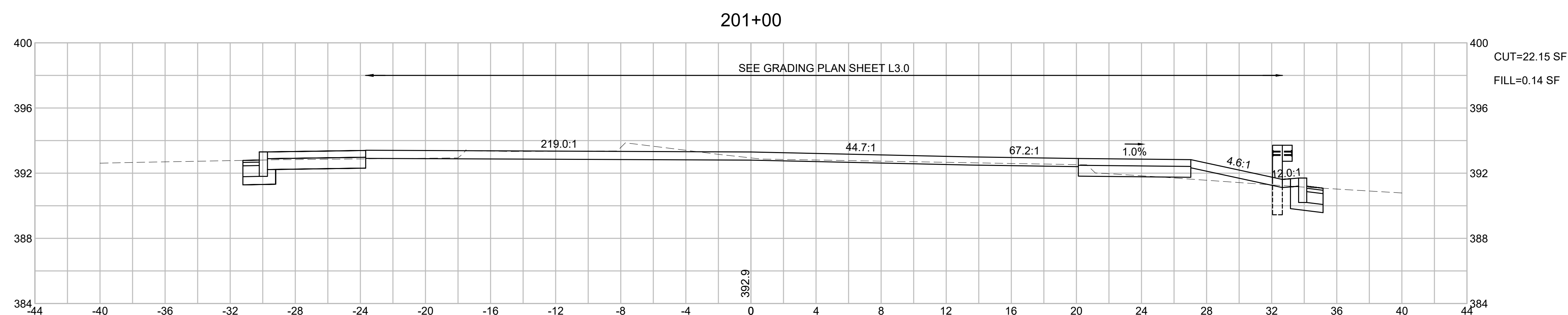
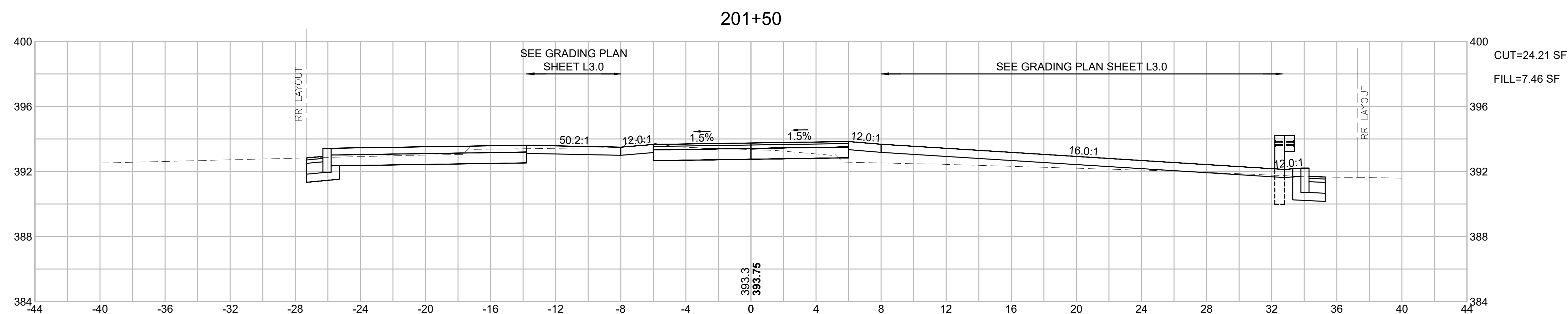
DATE: 12-11-2024

SCALE: 1" = 4'

SUBMISSION: BID SET

DRAWING NO.

**C8.0**





**TWIN CITIES  
RAIL TRAIL**

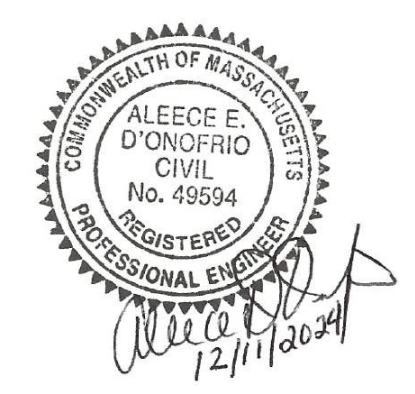
WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA

KEY PLAN:

ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

**CROSS SECTIONS  
PART 2 OF 11**

DESIGNED: MEH

DRAWN: CWS CHECKED: JJH

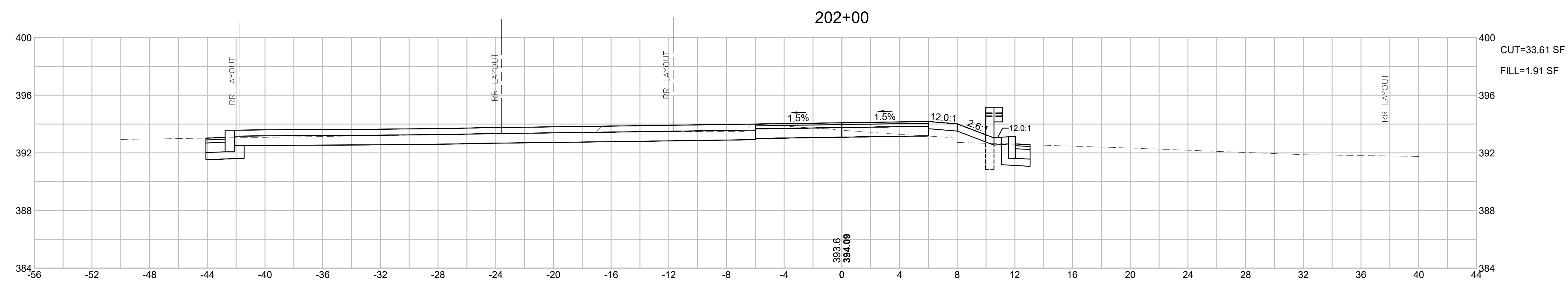
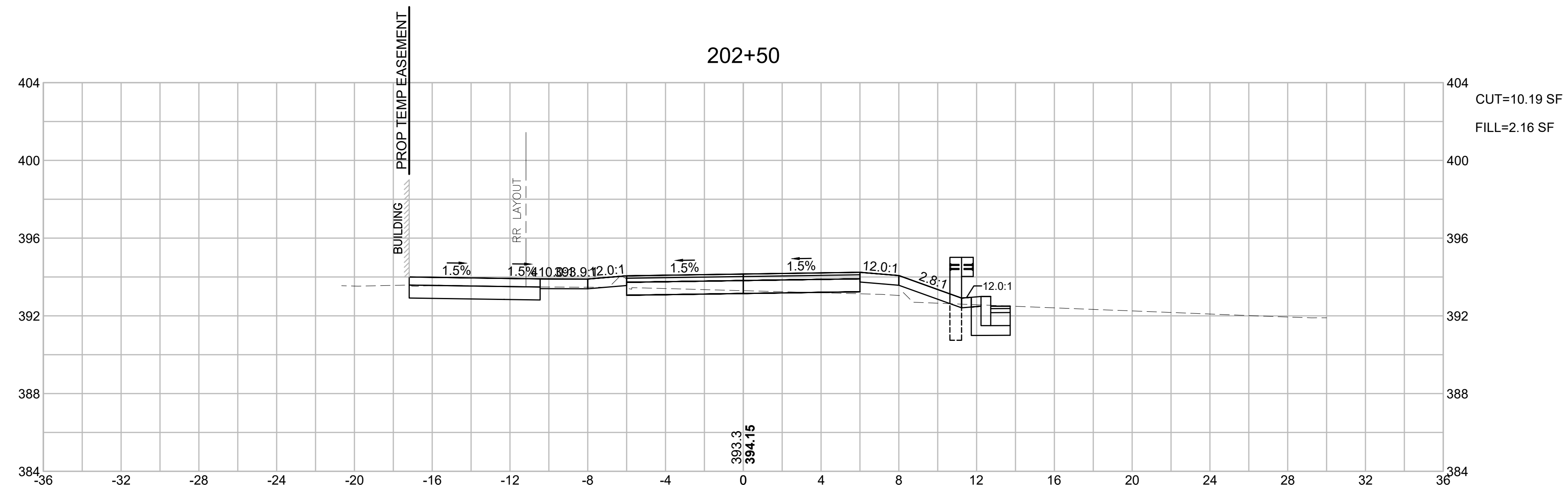
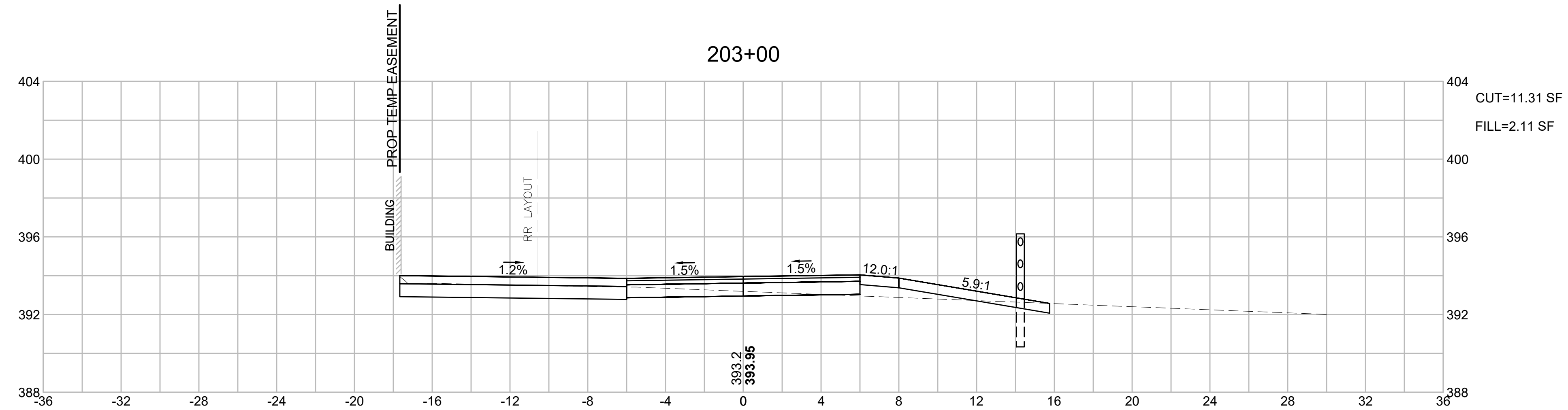
DATE: 12-11-2024

SCALE: 1" = 4'

SUBMISSION: BID SET

DRAWING NO.

**C8.1**





**TWIN CITIES  
RAIL TRAIL**

WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA

KEY PLAN:

ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

**CROSS SECTIONS  
PART 3 OF 11**

DESIGNED: MEH

DRAWN: CWS

CHECKED: JJH

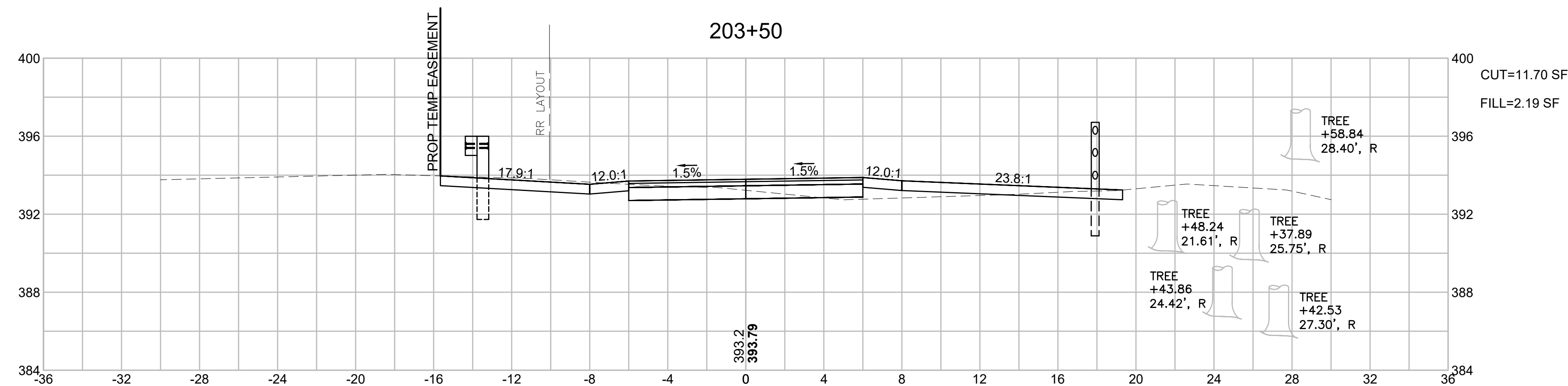
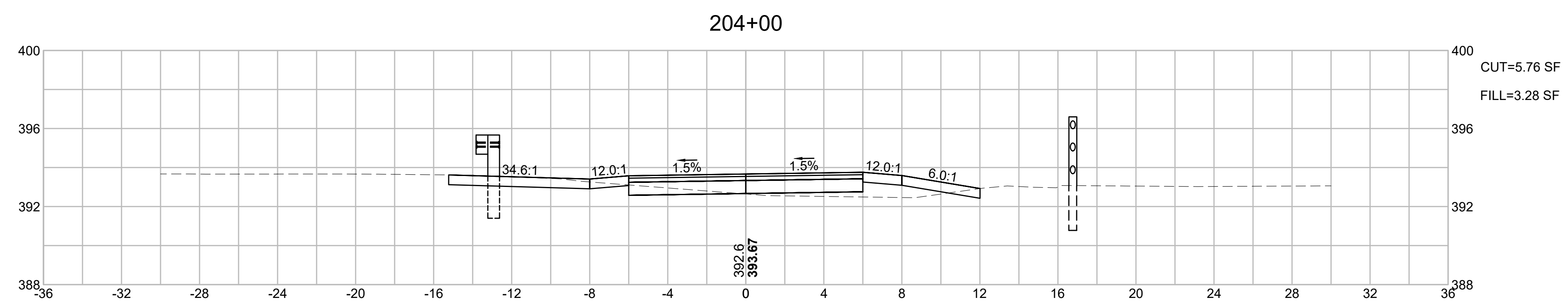
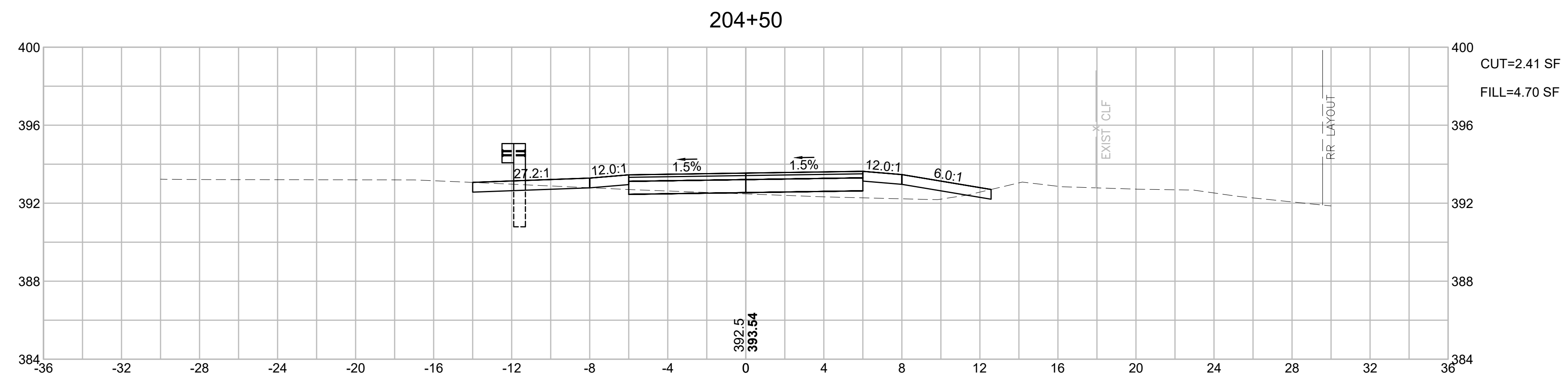
DATE: 12-11-2024

SCALE: 1" = 4'

SUBMISSION: BID SET

DRAWING NO.

**C8.2**





**TWIN CITIES  
RAIL TRAIL**

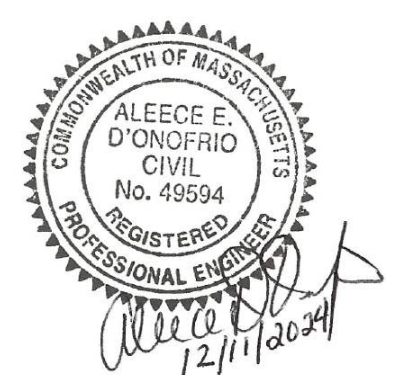
WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA

KEY PLAN:

ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

**CROSS SECTIONS  
PART 4 OF 11**

DESIGNED: MEH

DRAWN: CWS

CHECKED: JJH

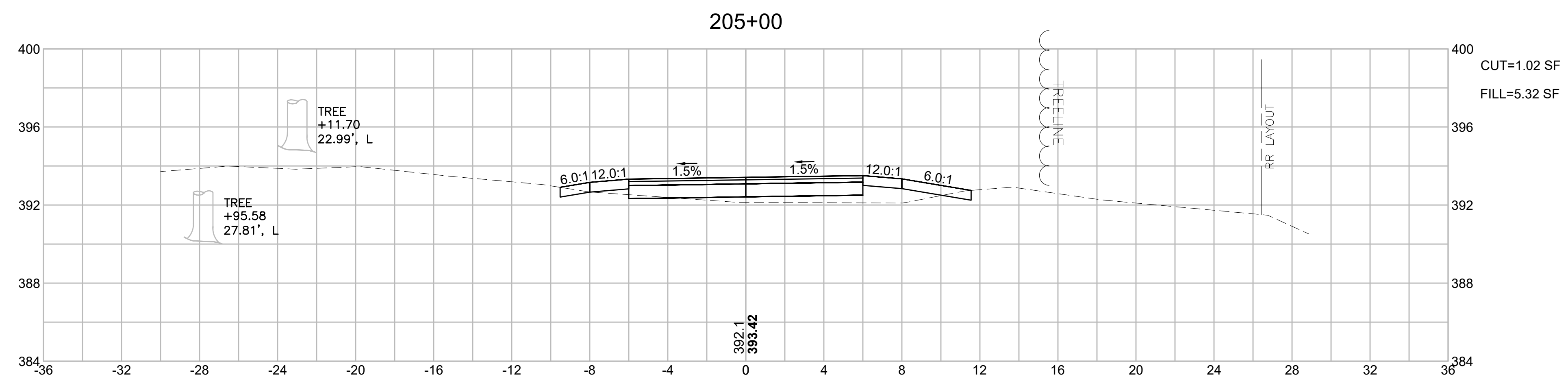
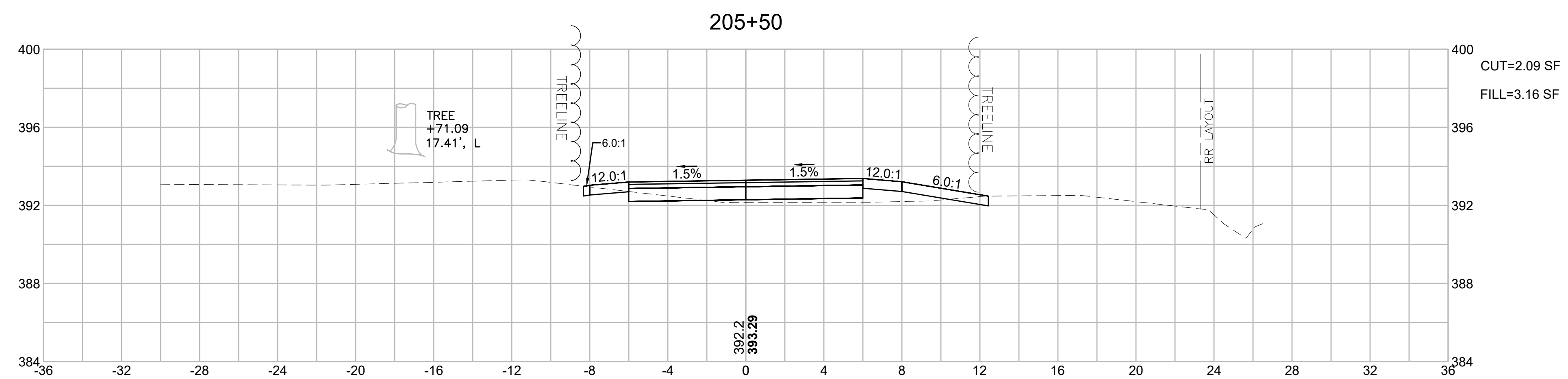
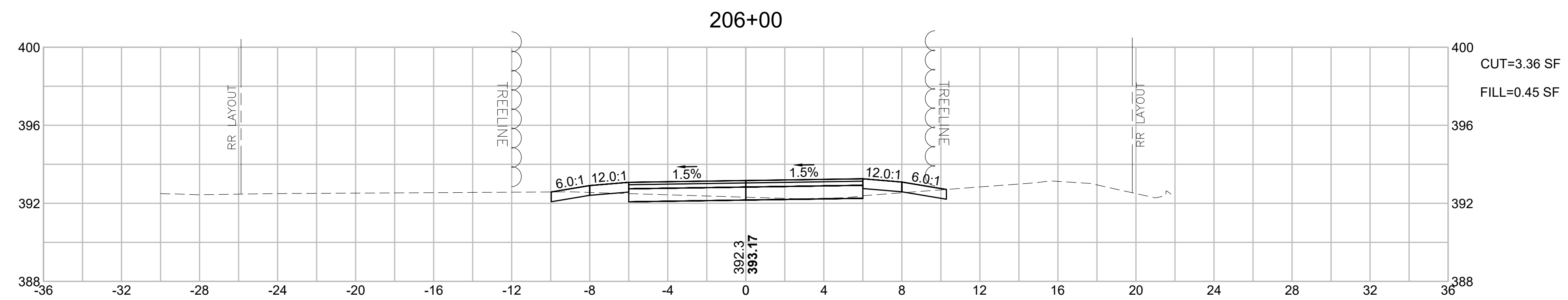
DATE: 12-11-2024

SCALE: 1" = 4'

SUBMISSION: BID SET

DRAWING NO.

**C8.3**





45 BLUE SKY DRIVE | BURLINGTON, MA 01803

**TWIN CITIES  
RAIL TRAIL**

WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA

KEY PLAN:

ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

**CROSS SECTIONS  
PART 5 OF 11**

DESIGNED: MEH

DRAWN: CWS

CHECKED: JJH

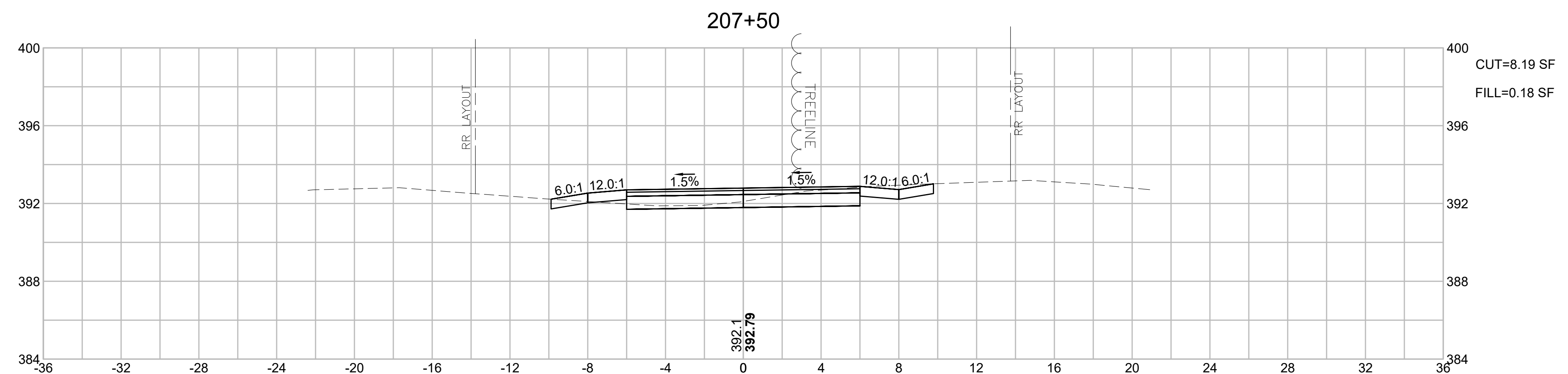
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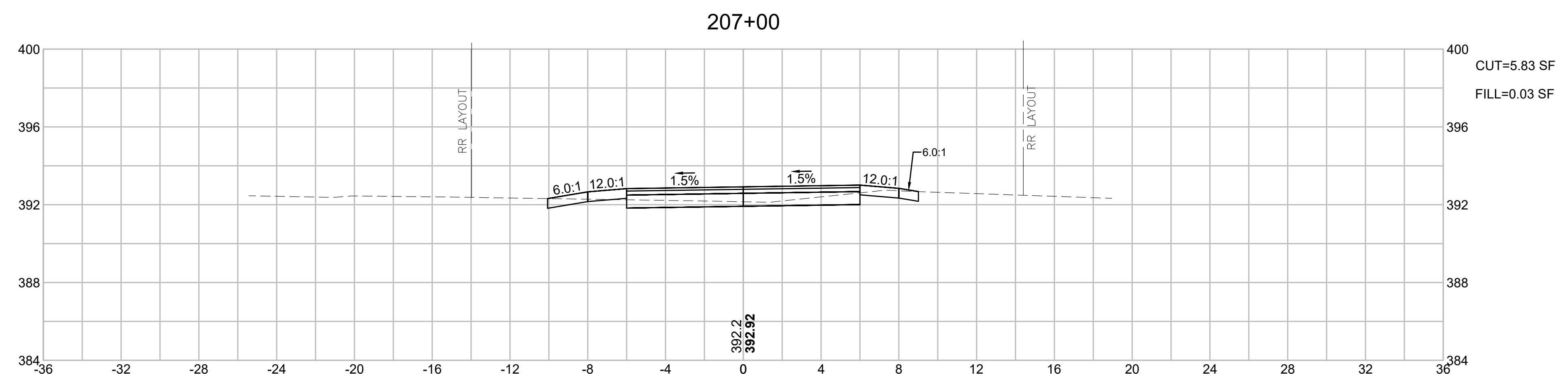
SUBMISSION: BID SET

DRAWING NO.

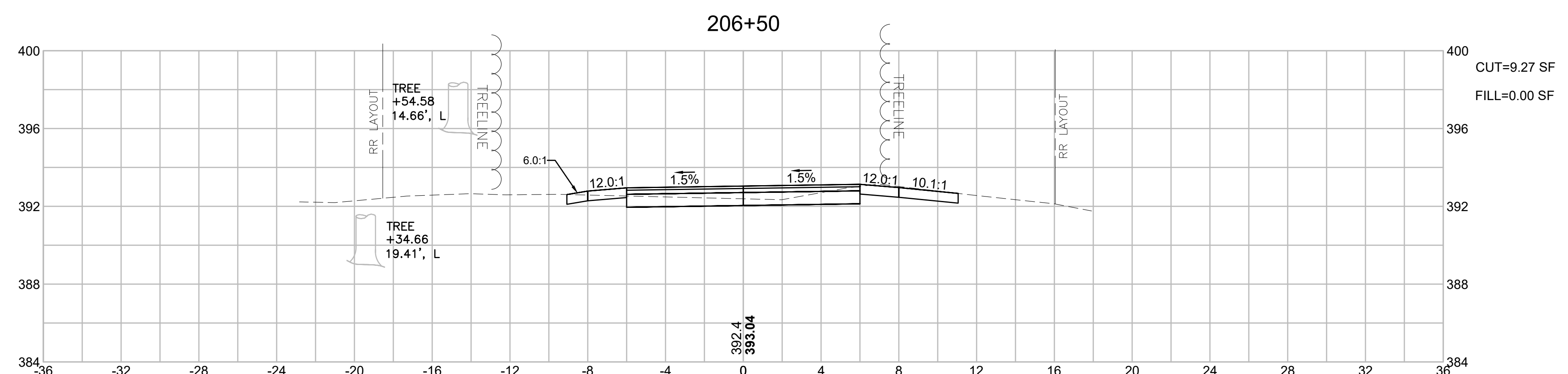
**C8.4**



CUT=8.19 SF  
FILL=0.18 SF



CUT=5.83 SF  
FILL=0.03 SF

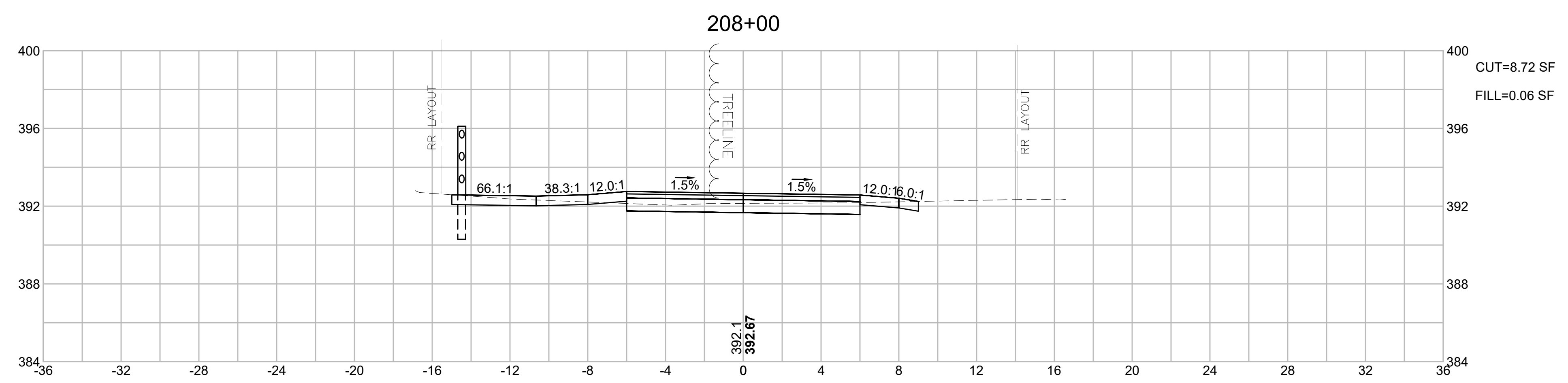
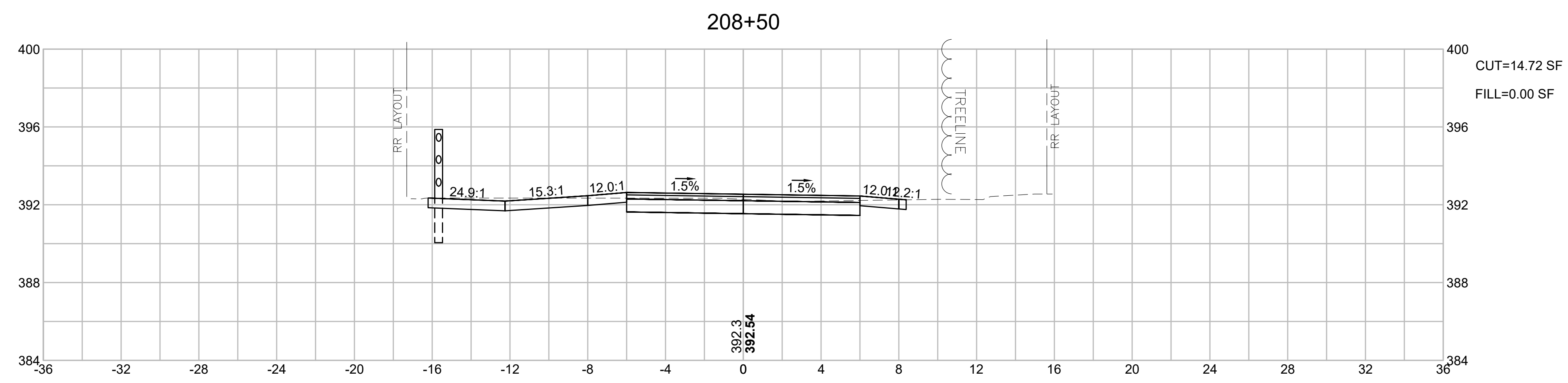
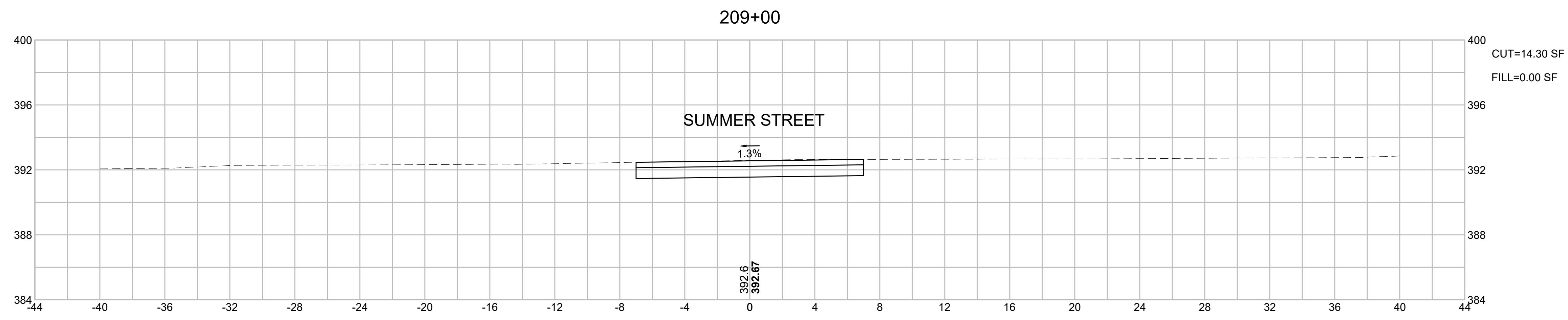


CUT=9.27 SF  
FILL=0.00 SF



**TWIN CITIES  
RAIL TRAIL**

WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA

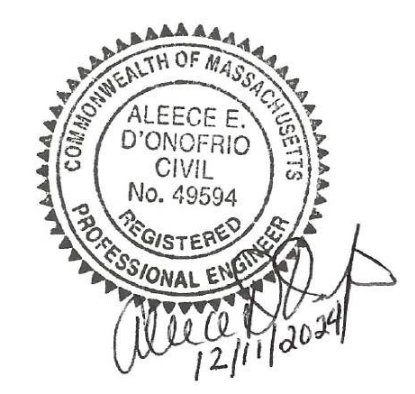


KEY PLAN:

ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

**CROSS SECTIONS  
PART 6 OF 11**

DESIGNED: MEH

DRAWN: CWS CHECKED: JJH

DATE: 12-11-2024

SCALE: 1" = 4'

SUBMISSION: BID SET

DRAWING NO.

**C8.5**





**TWIN CITIES  
RAIL TRAIL**

WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA

KEY PLAN:

ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

**CROSS SECTIONS  
PART 7 OF 11**

DESIGNED: MEH

DRAWN: CWS

CHECKED: JJH

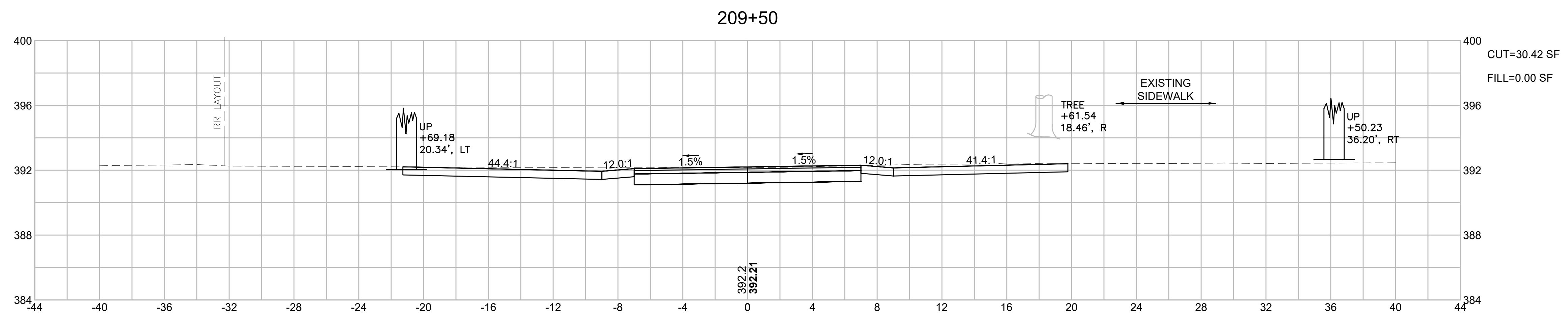
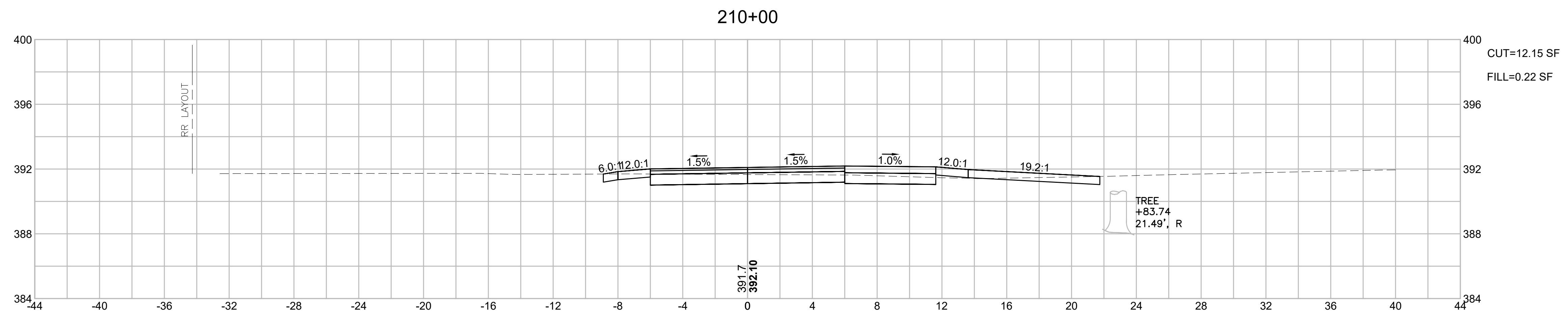
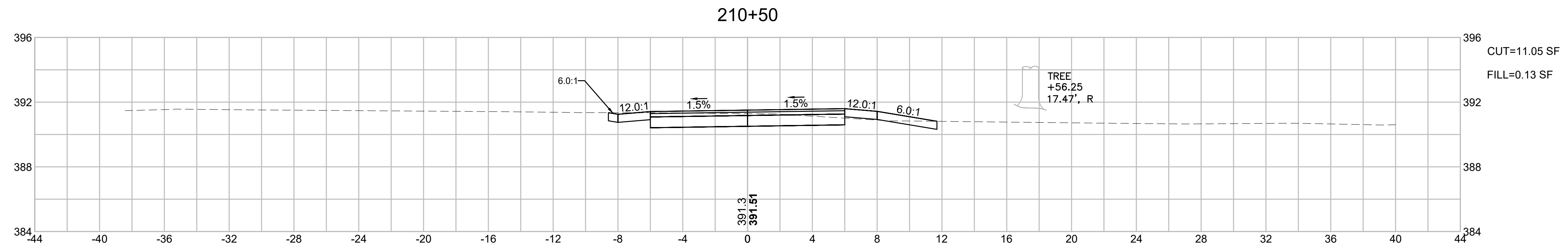
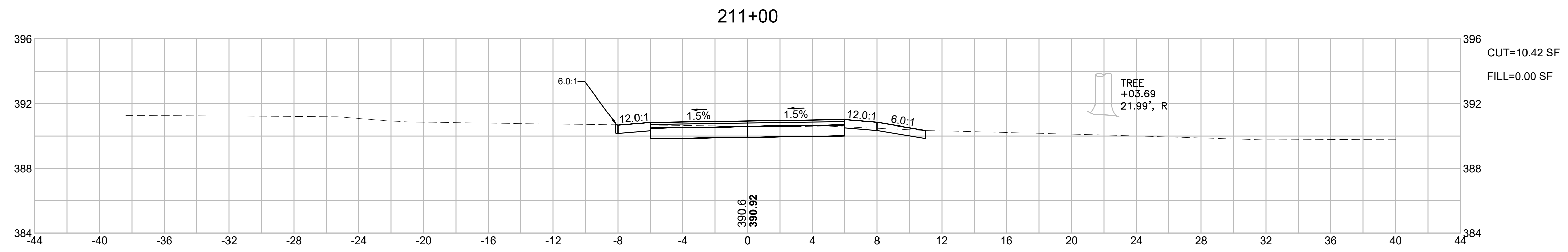
DATE: 12-11-2024

SCALE: 1" = 4'

SUBMISSION: BID SET

DRAWING NO.

**C8.6**





**TWIN CITIES  
RAIL TRAIL**

WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA

KEY PLAN:

ISSUE:

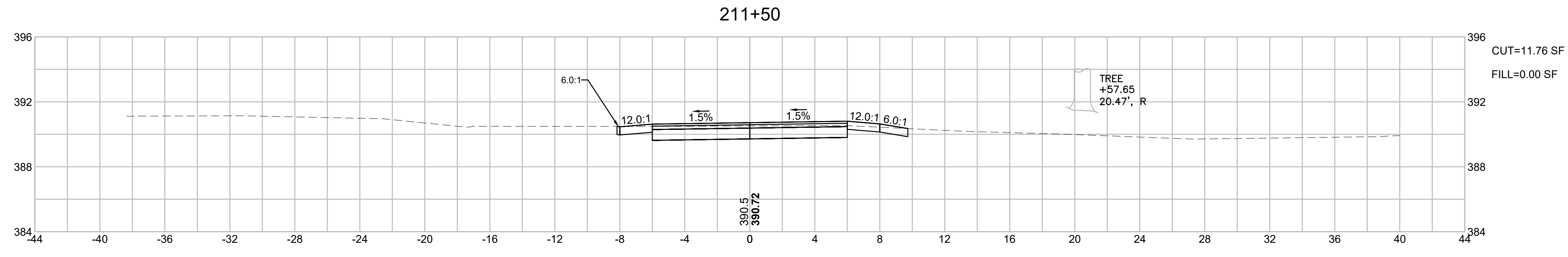
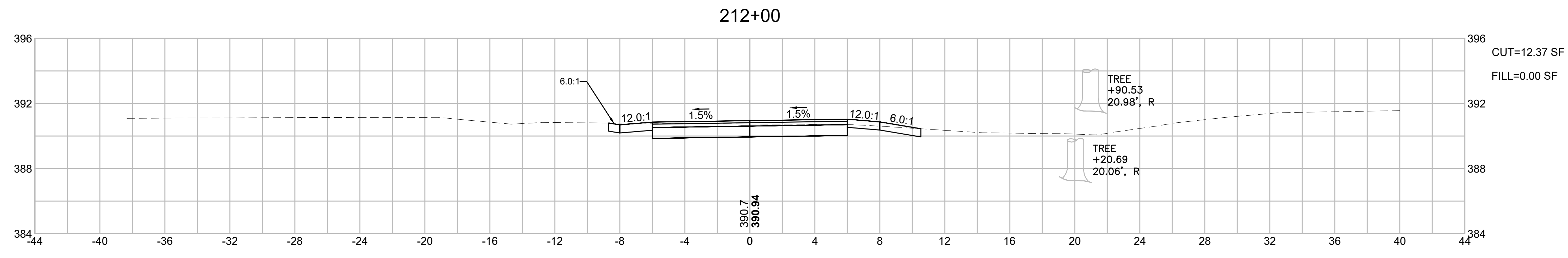
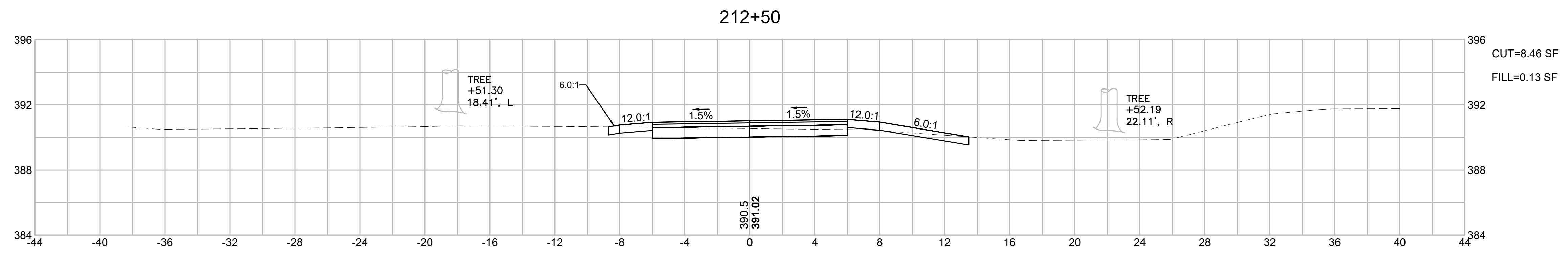
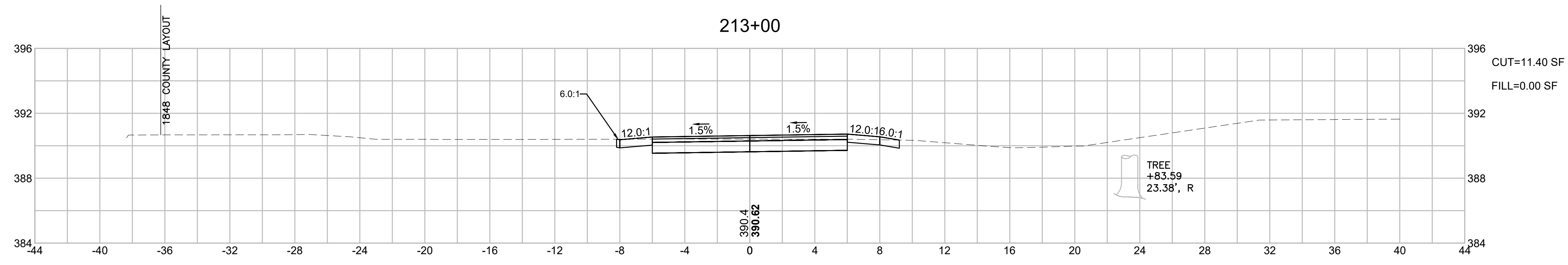
NO.	REVISION	DATE

STAMPED AND SIGNED:

DRAWING TITLE:  
**CROSS SECTIONS  
PART 8 OF 11**

DESIGNED: MEH  
DRAWN: CWS CHECKED: JJH  
DATE: 12-11-2024  
SCALE: 1" = 4'  
SUBMISSION: BID SET

DRAWING NO.  
**C8.7**





**TWIN CITIES  
RAIL TRAIL**

WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA

KEY PLAN:

ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

**CROSS SECTIONS  
PART 9 OF 11**

DESIGNED: MEH

DRAWN: CWS

CHECKED: JJH

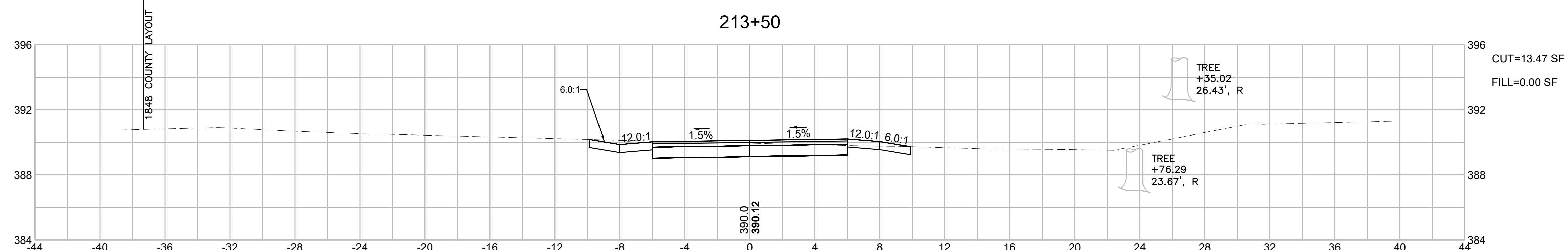
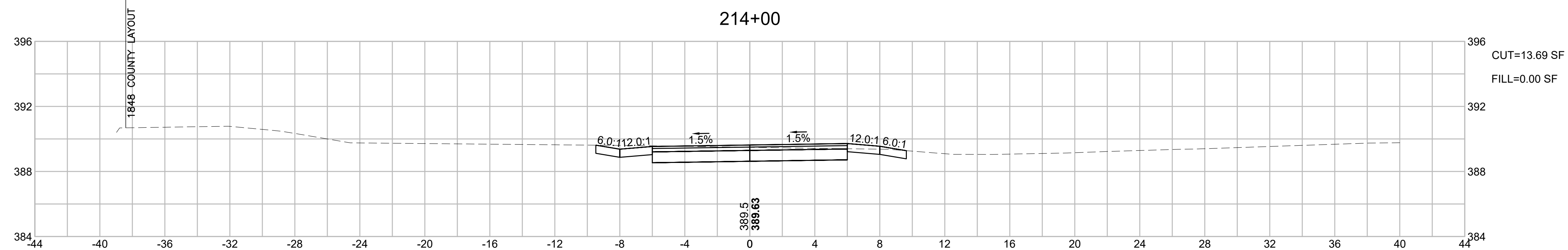
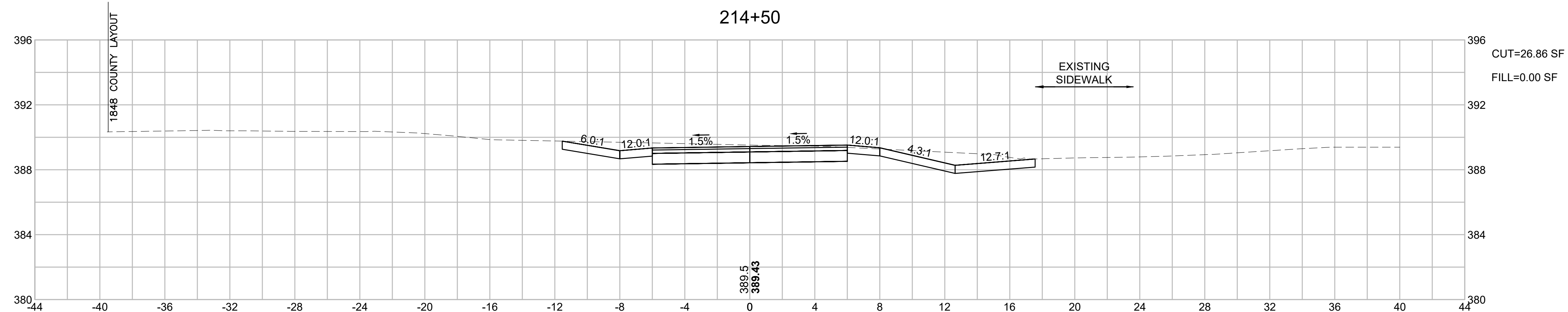
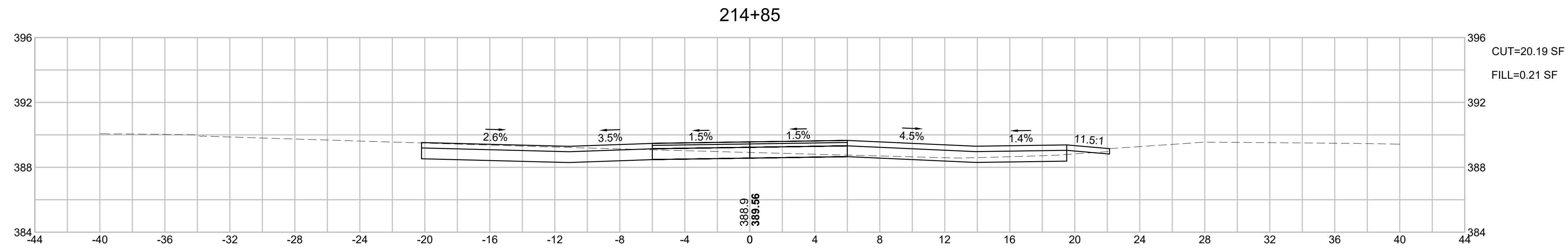
DATE: 12-11-2024

SCALE: 1" = 4'

SUBMISSION: BID SET

DRAWING NO.

**C8.8**





**TWIN CITIES  
RAIL TRAIL**

WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA

KEY PLAN:

ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

**CROSS SECTIONS  
PART 10 OF 11**

DESIGNED: MEH

DRAWN: CWS CHECKED: JJH

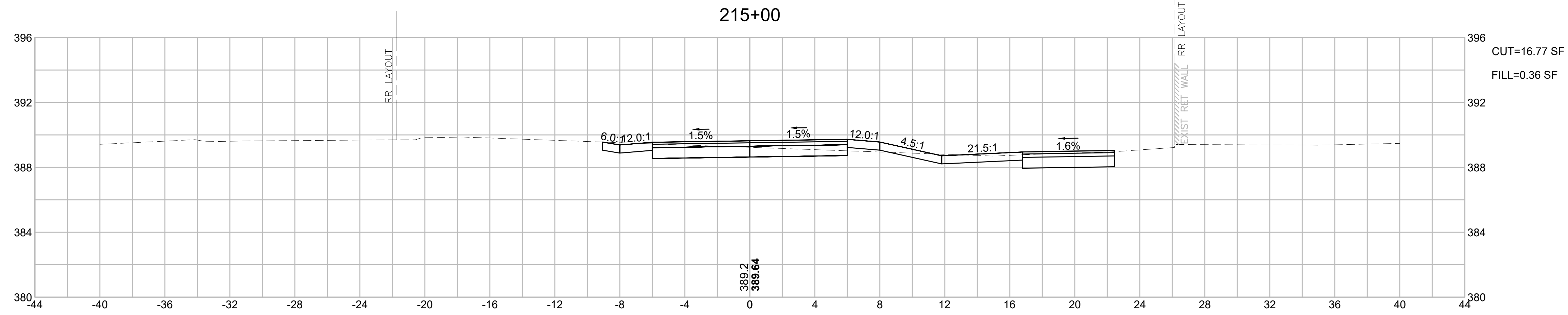
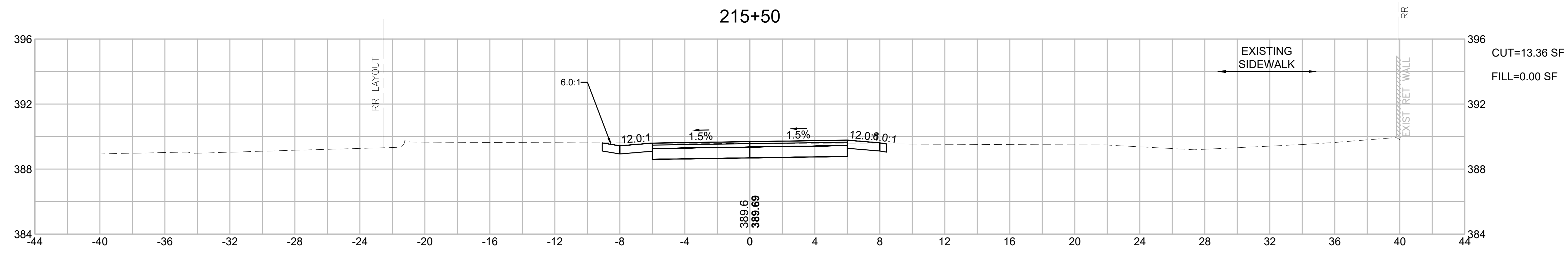
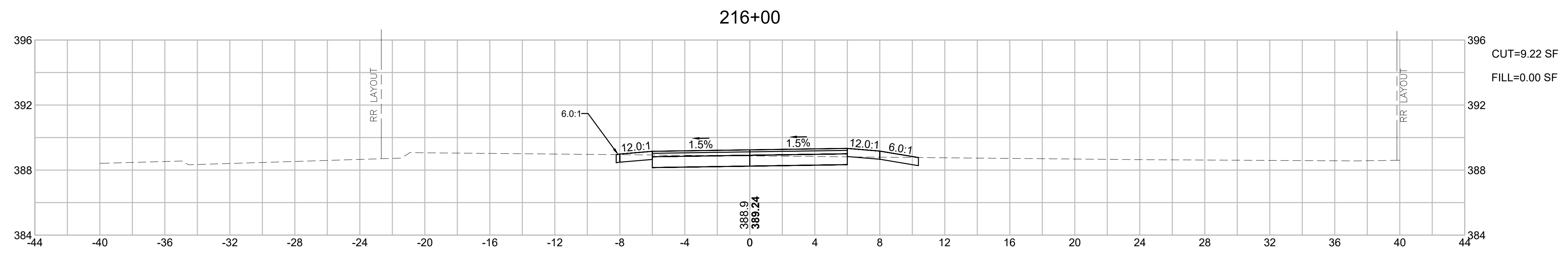
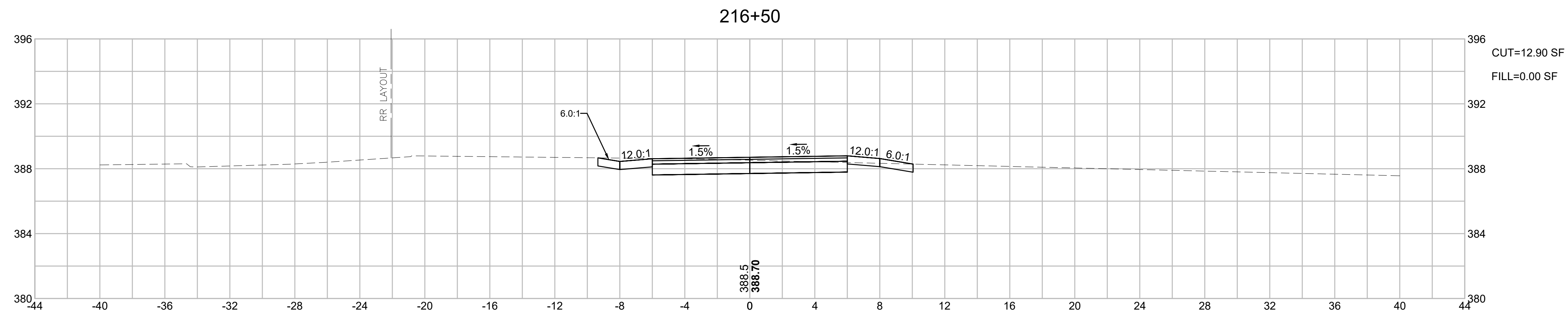
DATE: 12-11-2024

SCALE: 1" = 4'

SUBMISSION: BID SET

DRAWING NO.

**C8.9**





**TWIN CITIES  
RAIL TRAIL**

WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA

KEY PLAN:

ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

**CROSS SECTIONS  
PART 11 OF 11**

DESIGNED: MEH

DRAWN: CWS CHECKED: JJH

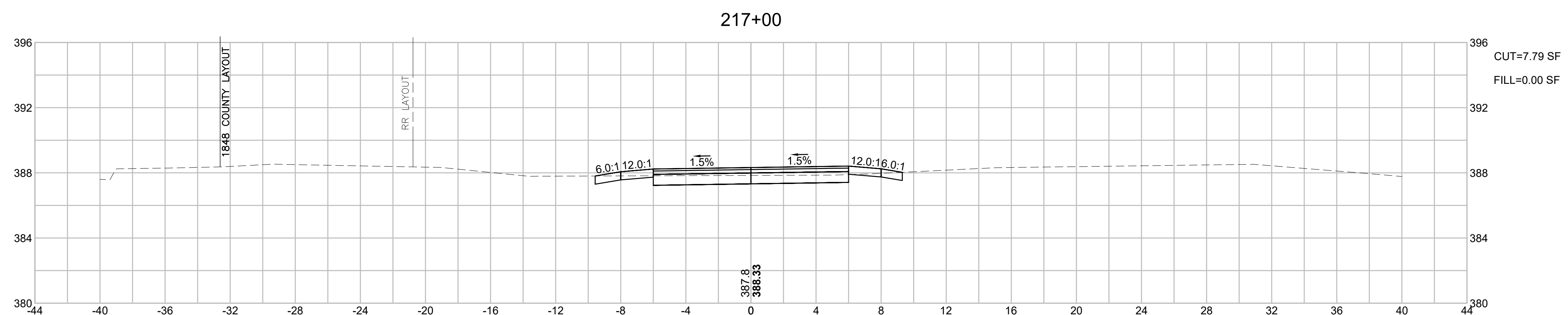
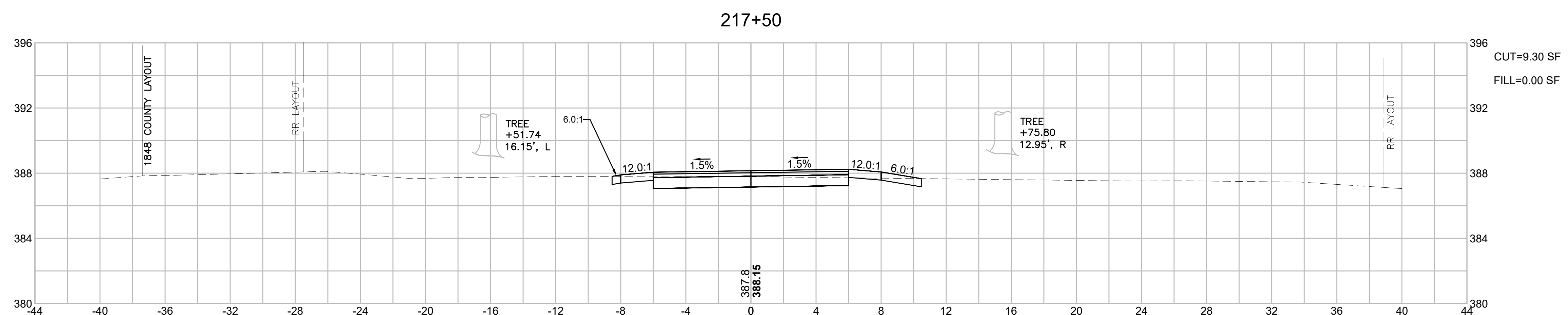
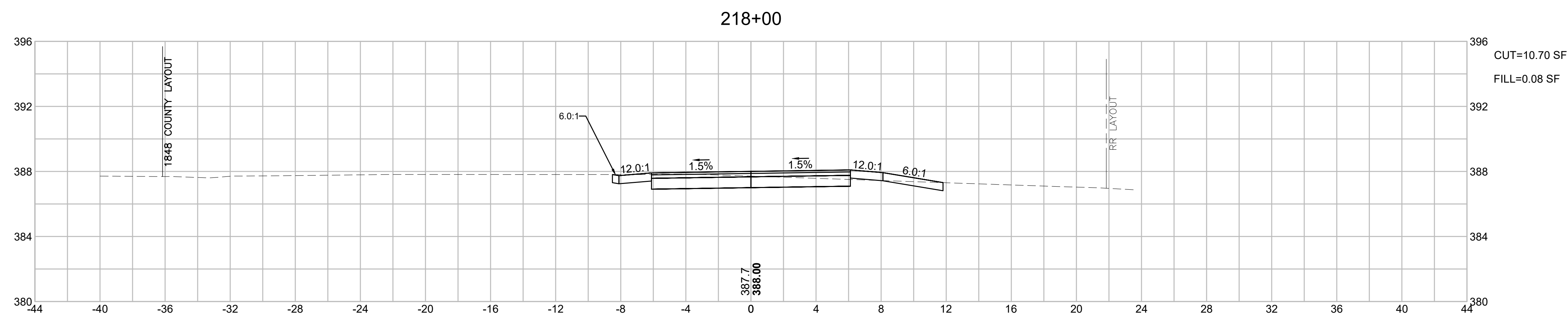
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SCALE: 1" = 4'

SUBMISSION: BID SET

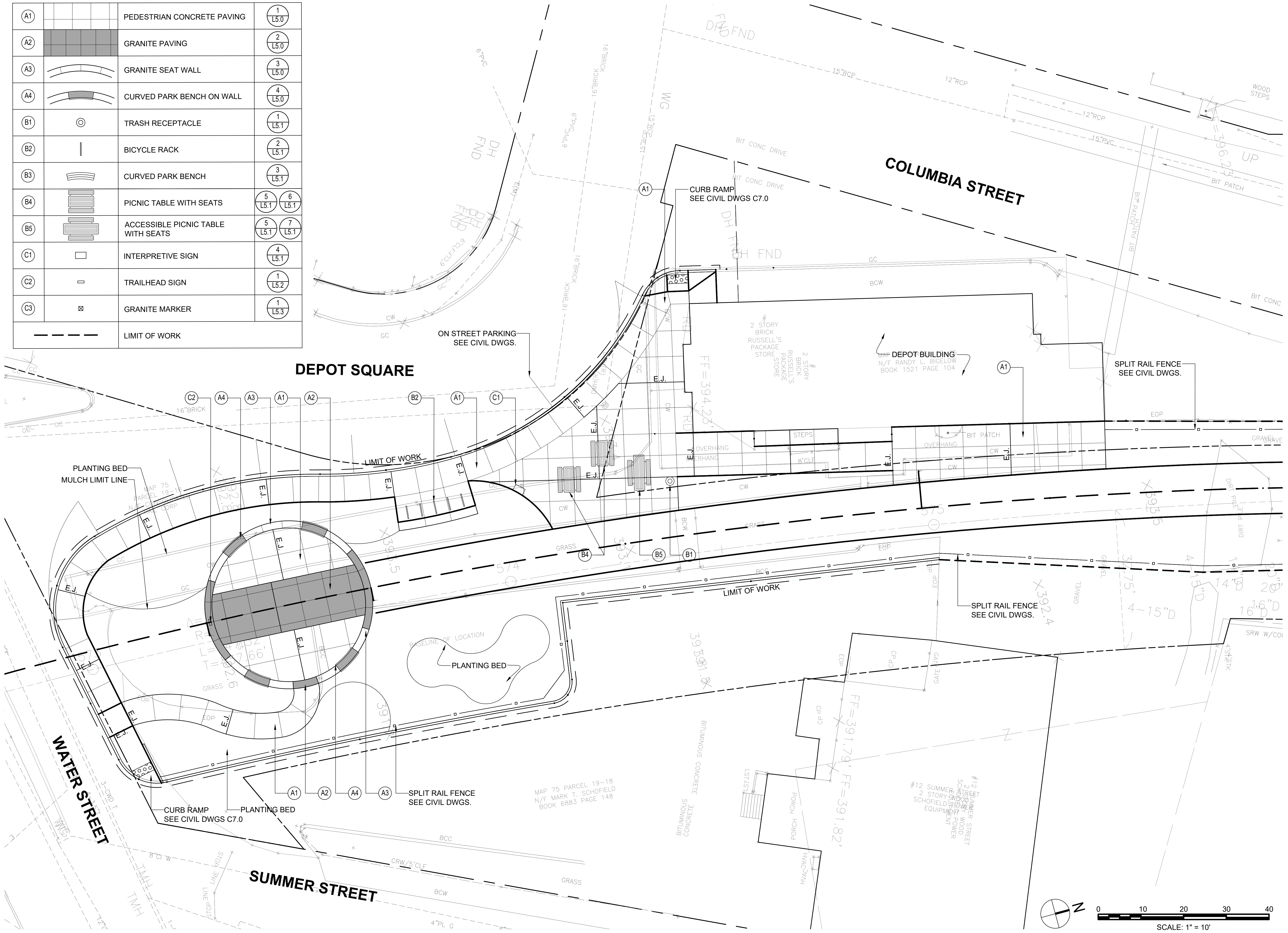
DRAWING NO.

**C8.10**



**MATERIALS LEGEND:**

SYMBOL	DESCRIPTION	
(A1)	PEDESTRIAN CONCRETE PAVING	(1) L5.0
(A2)	GRANITE PAVING	(2) L5.0
(A3)	GRANITE SEAT WALL	(3) L5.0
(A4)	CURVED PARK BENCH ON WALL	(4) L5.0
(B1)	TRASH RECEPTACLE	(1) L5.1
(B2)	BICYCLE RACK	(2) L5.1
(B3)	CURVED PARK BENCH	(3) L5.1
(B4)	PICNIC TABLE WITH SEATS	(5) L5.1 (6) L5.1
(B5)	ACCESSIBLE PICNIC TABLE WITH SEATS	(5) L5.1 (7) L5.1
(C1)	INTERPRETIVE SIGN	(4) L5.1
(C2)	TRAILHEAD SIGN	(1) L5.2
(C3)	GRANITE MARKER	(1) L5.3
---	LIMIT OF WORK	

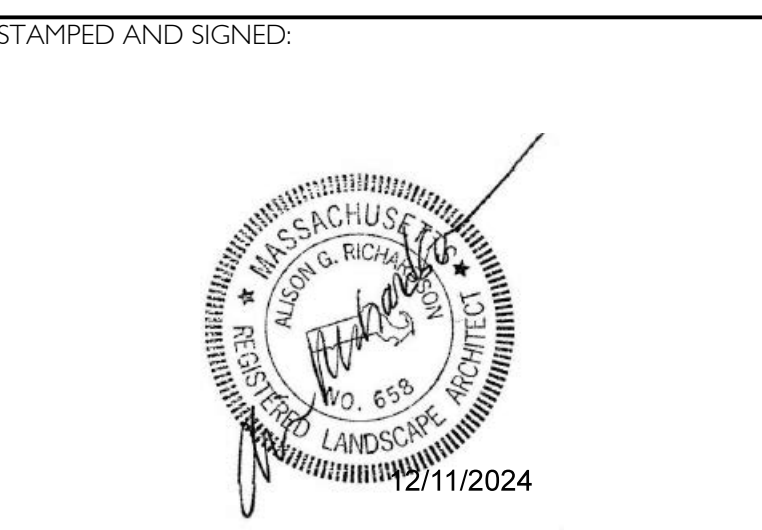


**TWIN CITIES  
RAIL TRAIL**

**WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA**

KEY PLAN:

NO.	REVISION	DATE



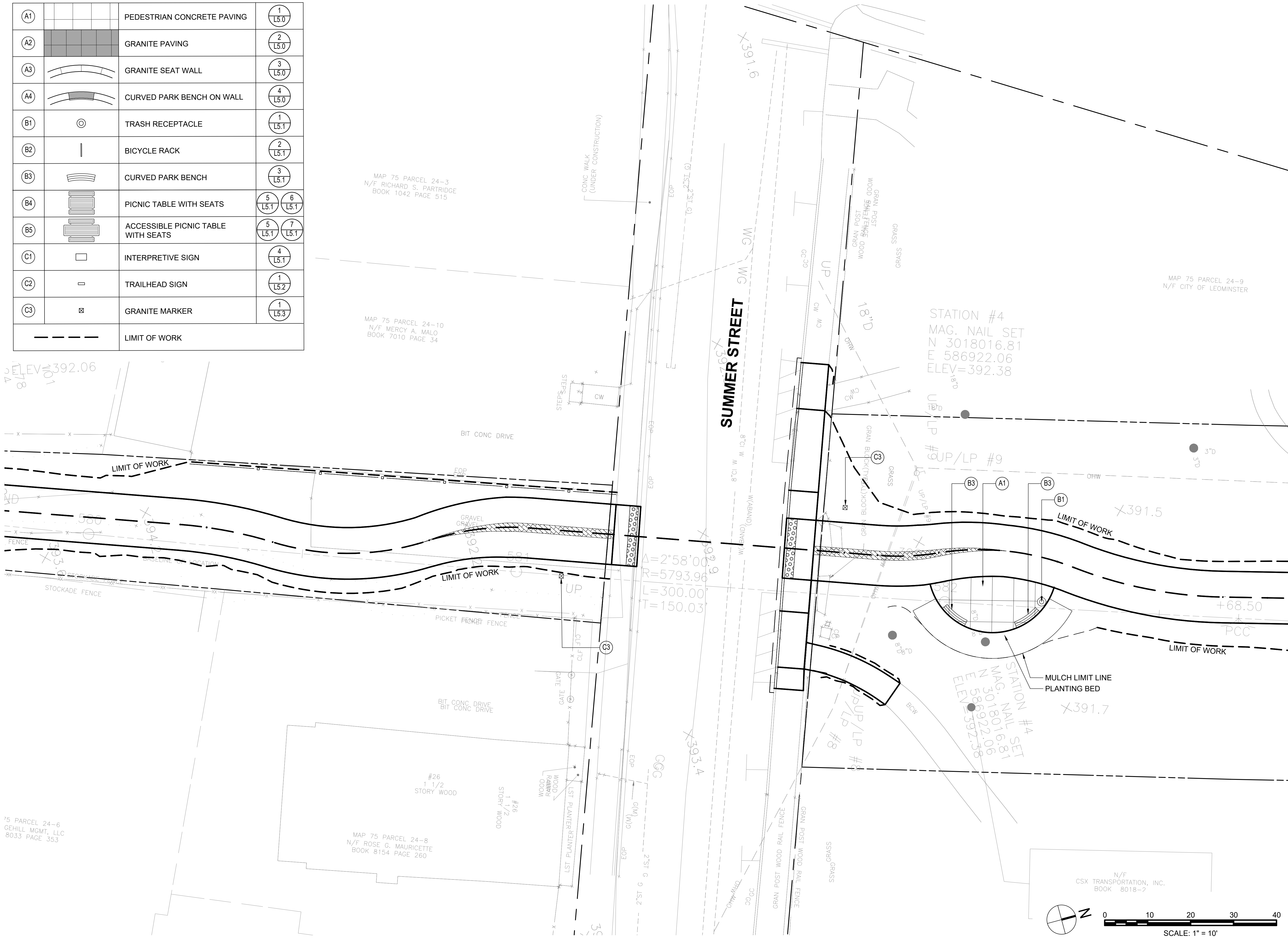
**MATERIALS PLANS  
PART 1 OF 3**

DESIGNED: JP  
DRAWN: JP/CS CHECKED: AR  
DATE: 12.11.2024  
SCALE: 1"=10'-0"  
SUBMISSION: BID SET  
DRAWING NO.

**L1.0**

**MATERIALS LEGEND:**

SYMBOL	DESCRIPTION	
(A1)	PEDESTRIAN CONCRETE PAVING	(1) L5.0
(A2)	GRANITE PAVING	(2) L5.0
(A3)	GRANITE SEAT WALL	(3) L5.0
(A4)	CURVED PARK BENCH ON WALL	(4) L5.0
(B1)	TRASH RECEPTACLE	(1) L5.1
(B2)	BICYCLE RACK	(2) L5.1
(B3)	CURVED PARK BENCH	(3) L5.1
(B4)	PICNIC TABLE WITH SEATS	(5) (6) L5.1 L5.1
(B5)	ACCESSIBLE PICNIC TABLE WITH SEATS	(5) (7) L5.1 L5.1
(C1)	INTERPRETIVE SIGN	(4) L5.1
(C2)	TRAILHEAD SIGN	(1) L5.2
(C3)	GRANITE MARKER	(1) L5.3
---	LIMIT OF WORK	



**TWIN CITIES  
RAIL TRAIL**

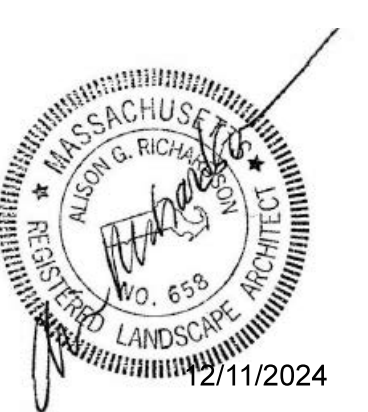
**WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA**

KEY PLAN:

ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

**MATERIALS PLANS  
PART 2 OF 3**

DESIGNED: JP

DRAWN: JP/CS

CHECKED: AR

DATE: 12.11.2024

SCALE: 1"=10'-0"

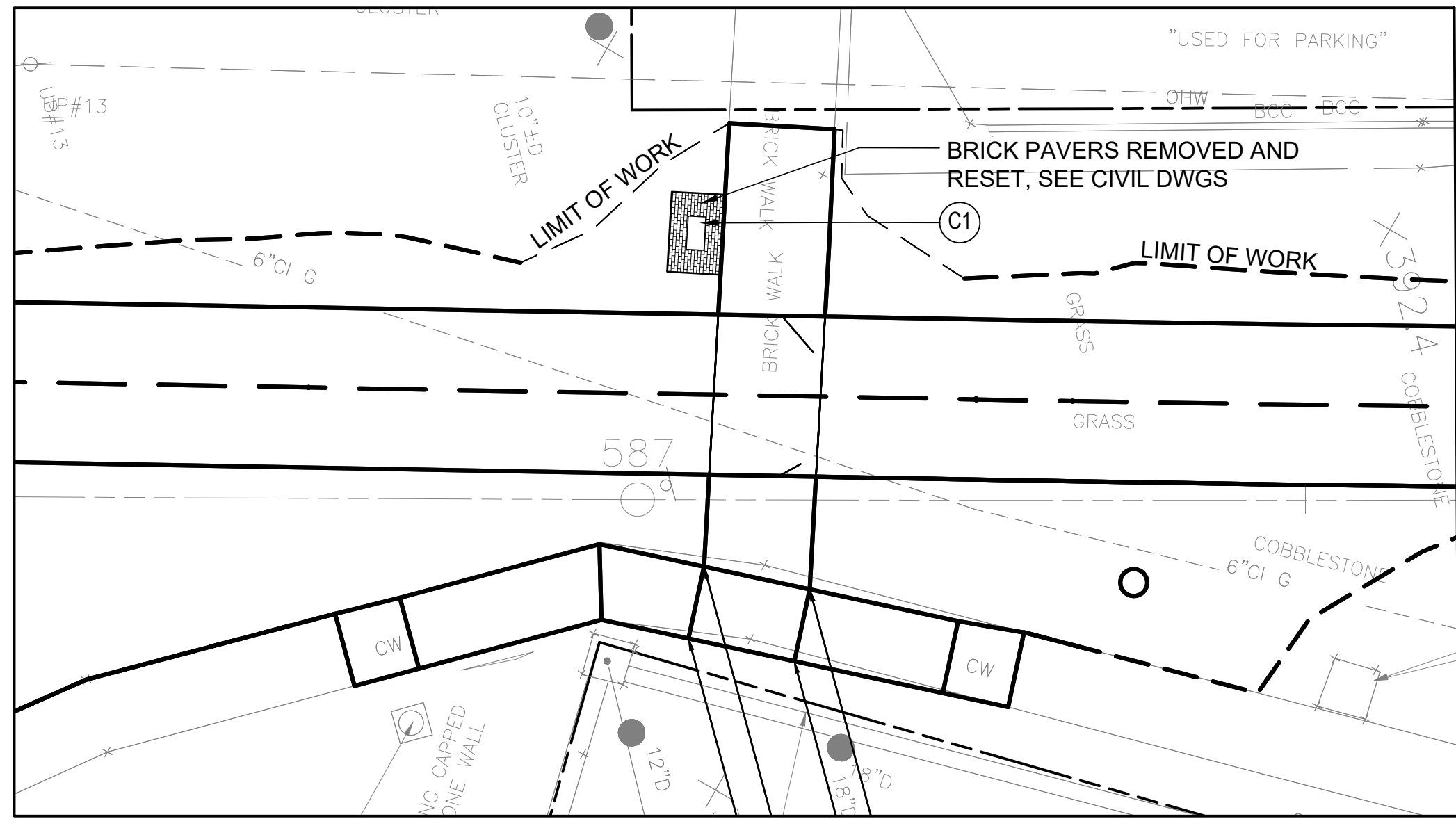
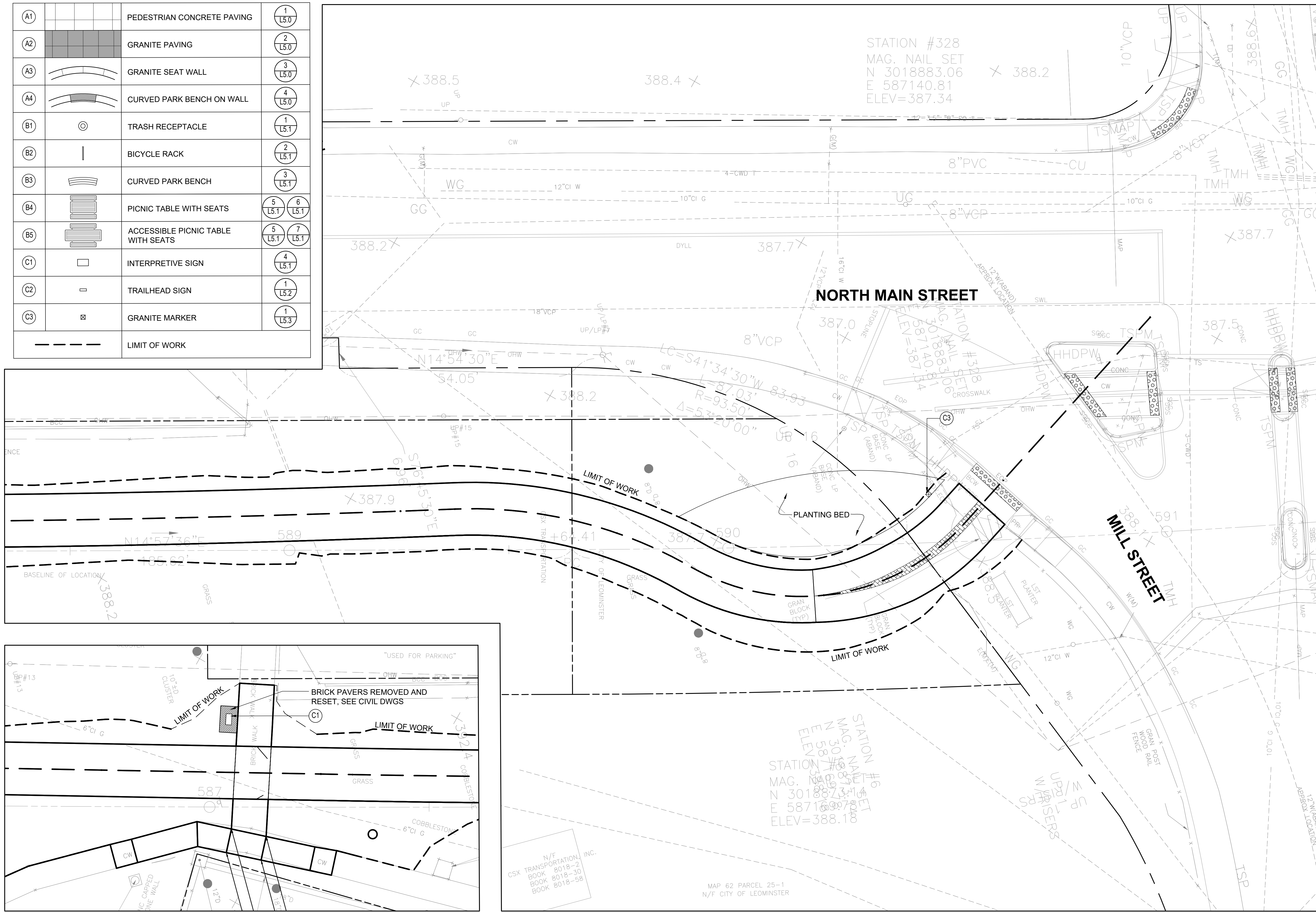
SUBMISSION: BID SET

DRAWING NO.

**L1.1**

**MATERIALS LEGEND:**

SYMBOL	DESCRIPTION	
(A1)	PEDESTRIAN CONCRETE PAVING	(1 / L5.0)
(A2)	GRANITE PAVING	(2 / L5.0)
(A3)	GRANITE SEAT WALL	(3 / L5.0)
(A4)	CURVED PARK BENCH ON WALL	(4 / L5.0)
(B1)	TRASH RECEPTACLE	(1 / L5.1)
(B2)	BICYCLE RACK	(2 / L5.1)
(B3)	CURVED PARK BENCH	(3 / L5.1)
(B4)	PICNIC TABLE WITH SEATS	(5 / L5.1) (6 / L5.1)
(B5)	ACCESSIBLE PICNIC TABLE WITH SEATS	(5 / L5.1) (7 / L5.1)
(C1)	INTERPRETIVE SIGN	(4 / L5.1)
(C2)	TRAILHEAD SIGN	(1 / L5.2)
(C3)	GRANITE MARKER	(1 / L5.3)
- - - - -	LIMIT OF WORK	



DETAIL PLAN OF INTERPRETIVE SIGN LOCATION

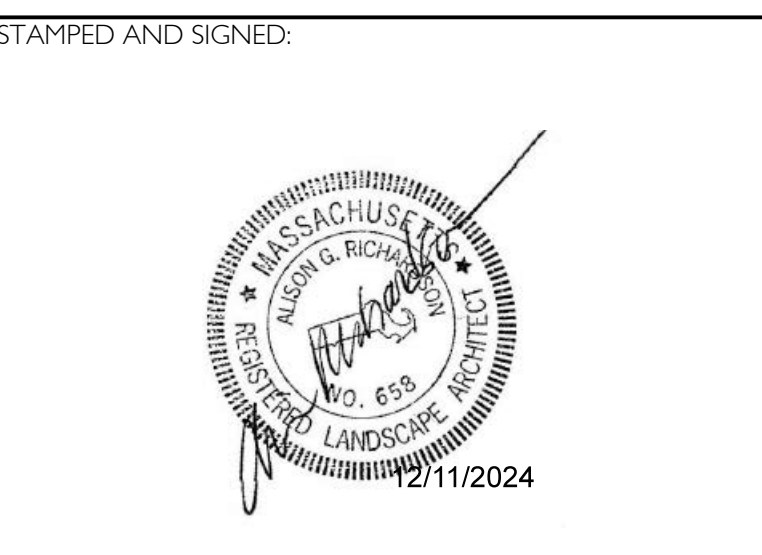


**TWIN CITIES  
RAIL TRAIL**

**WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA**

KEY PLAN:

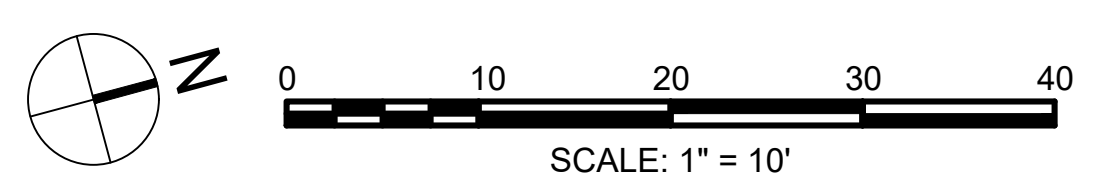
NO.	REVISION	DATE



DRAWING TITLE:  
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PART 3 OF 3**

DESIGNED: JP  
DRAWN: JP/CS CHECKED: AR  
DATE: 12.11.2024  
SCALE: 1"=10'-0"  
SUBMISSION: BID SET

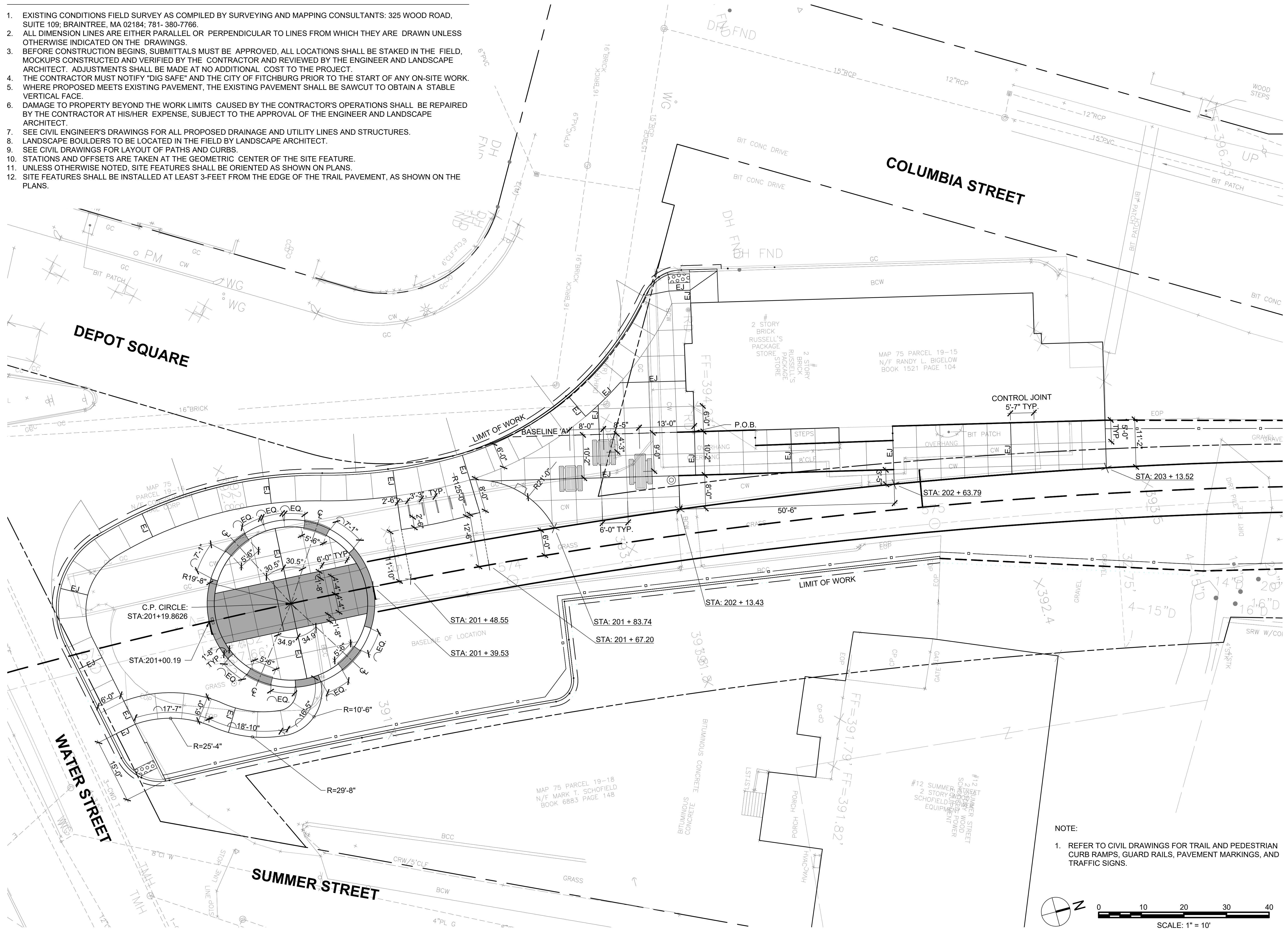
DRAWING NO.  
**L1.2**





NOTES:

- EXISTING CONDITIONS FIELD SURVEY AS COMPILED BY SURVEYING AND MAPPING CONSULTANTS: 325 WOOD ROAD, SUITE 109; BRAintree, MA 02184; 781-380-7766.
- ALL DIMENSION LINES ARE EITHER PARALLEL OR PERPENDICULAR TO LINES FROM WHICH THEY ARE DRAWN UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- BEFORE CONSTRUCTION BEGINS, SUBMITTALS MUST BE APPROVED, ALL LOCATIONS SHALL BE STAKED IN THE FIELD, MOCKUPS CONSTRUCTED AND VERIFIED BY THE CONTRACTOR AND REVIEWED BY THE ENGINEER AND LANDSCAPE ARCHITECT. ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE PROJECT.
- THE CONTRACTOR MUST NOTIFY "DIG SAFE" AND THE CITY OF FITCHBURG PRIOR TO THE START OF ANY ON-SITE WORK.
- WHERE PROPOSED MEETS EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE SAWCUT TO OBTAIN A STABLE VERTICAL FACE.
- DAMAGE TO PROPERTY BEYOND THE WORK LIMITS CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT HIS/HER EXPENSE, SUBJECT TO THE APPROVAL OF THE ENGINEER AND LANDSCAPE ARCHITECT.
- SEE CIVIL ENGINEER'S DRAWINGS FOR ALL PROPOSED DRAINAGE AND UTILITY LINES AND STRUCTURES.
- LANDSCAPE BOULDERS TO BE LOCATED IN THE FIELD BY LANDSCAPE ARCHITECT.
- SEE CIVIL DRAWINGS FOR LAYOUT OF PATHS AND CURBS.
- STATIONS AND OFFSETS ARE TAKEN AT THE GEOMETRIC CENTER OF THE SITE FEATURE.
- UNLESS OTHERWISE NOTED, SITE FEATURES SHALL BE ORIENTED AS SHOWN ON PLANS.
- SITE FEATURES SHALL BE INSTALLED AT LEAST 3-FEET FROM THE EDGE OF THE TRAIL PAVEMENT, AS SHOWN ON THE PLANS.



- NOTE:
- REFER TO CIVIL DRAWINGS FOR TRAIL AND PEDESTRIAN CURB RAMPS, GUARD RAILS, PAVEMENT MARKINGS, AND TRAFFIC SIGNS.



**TWIN CITIES  
RAIL TRAIL**

**WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA**

KEY PLAN:

ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

**LAYOUT PLANS  
PART 1 OF 3**

DESIGNED: JP

DRAWN: JP/CS CHECKED: AR

DATE: 12.11.2024

SCALE: 1"=10'-0"

SUBMISSION: BID SET

DRAWING NO.

**L2.0**



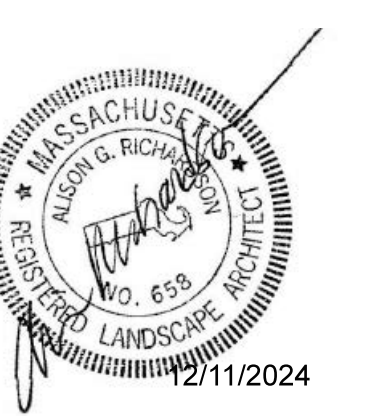
TWIN CITIES  
RAIL TRAIL

WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA

KEY PLAN:

ISSUE:		
NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

LAYOUT PLANS  
PART 2 OF 3

DESIGNED: JP

DRAWN: JP/CS CHECKED: AR

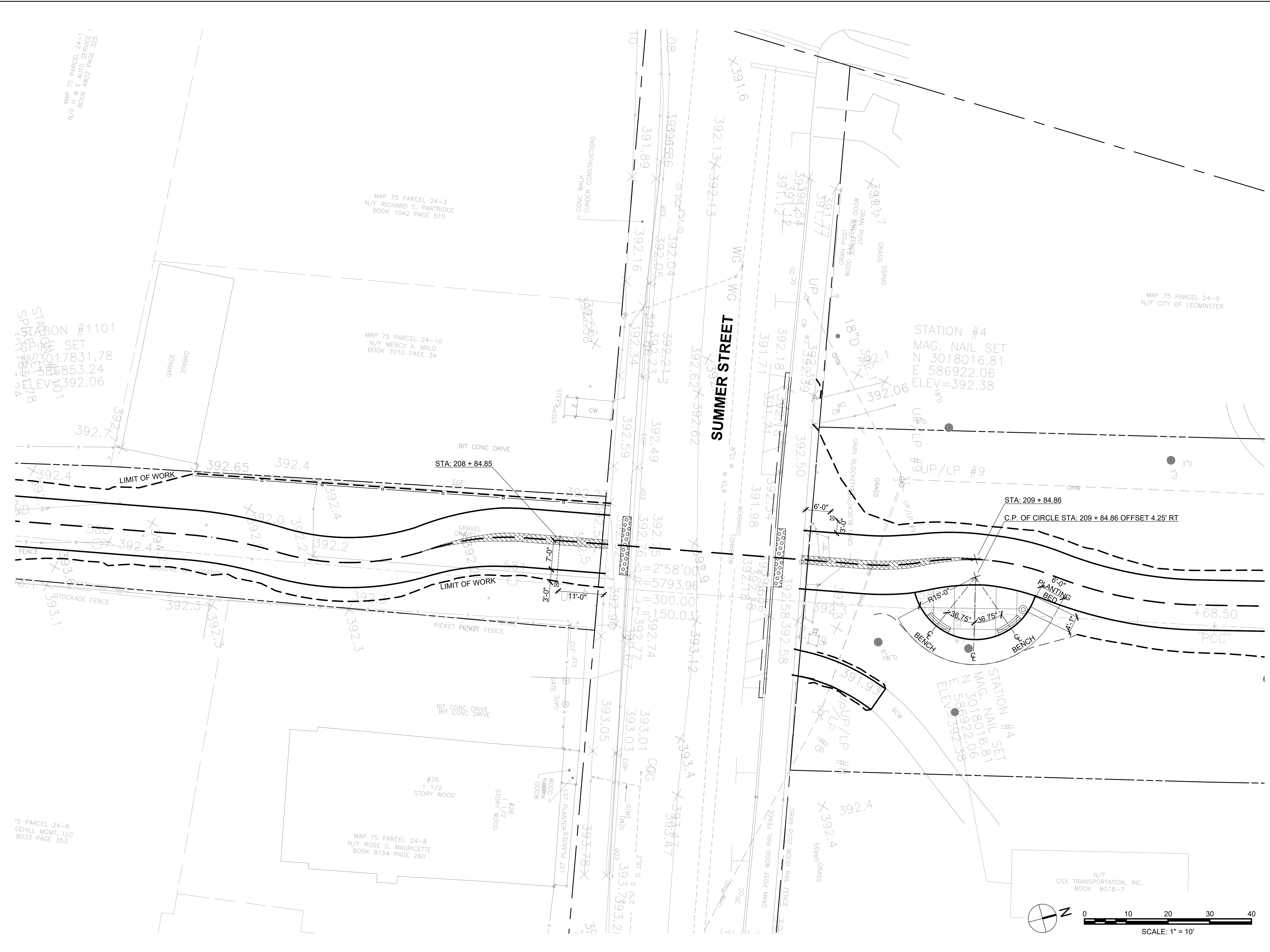
DATE: 12.11.2024

SCALE: 1"=10'-0"

SUBMISSION: BID SET

DRAWING NO.

L2.1





TWIN CITIES  
RAIL TRAIL

WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA

KEY PLAN:

ISSUE:		
NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

LAYOUT PLANS  
PART 3 OF 3

DESIGNED: JP

DRAWN: JP/CS CHECKED: AR

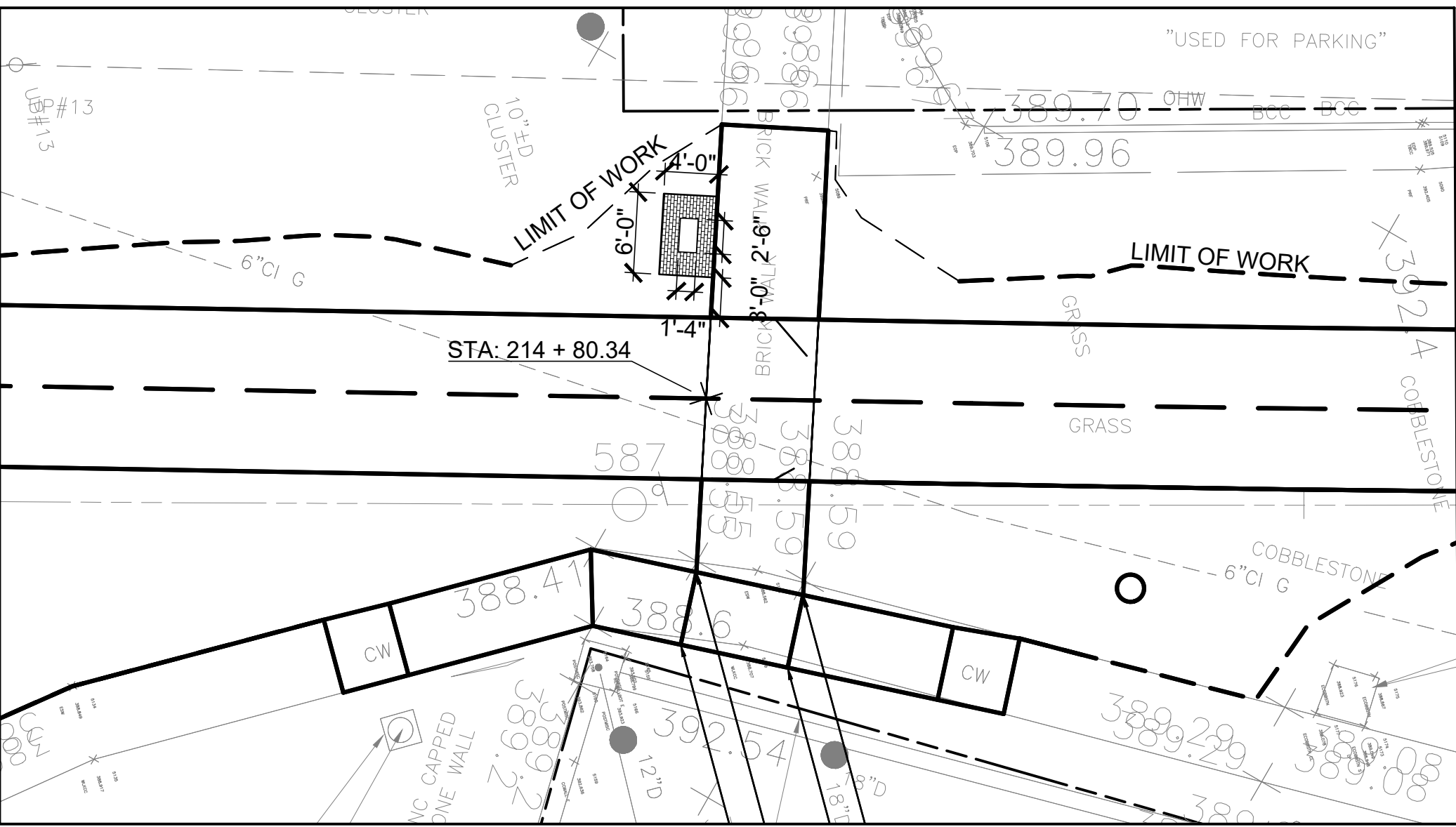
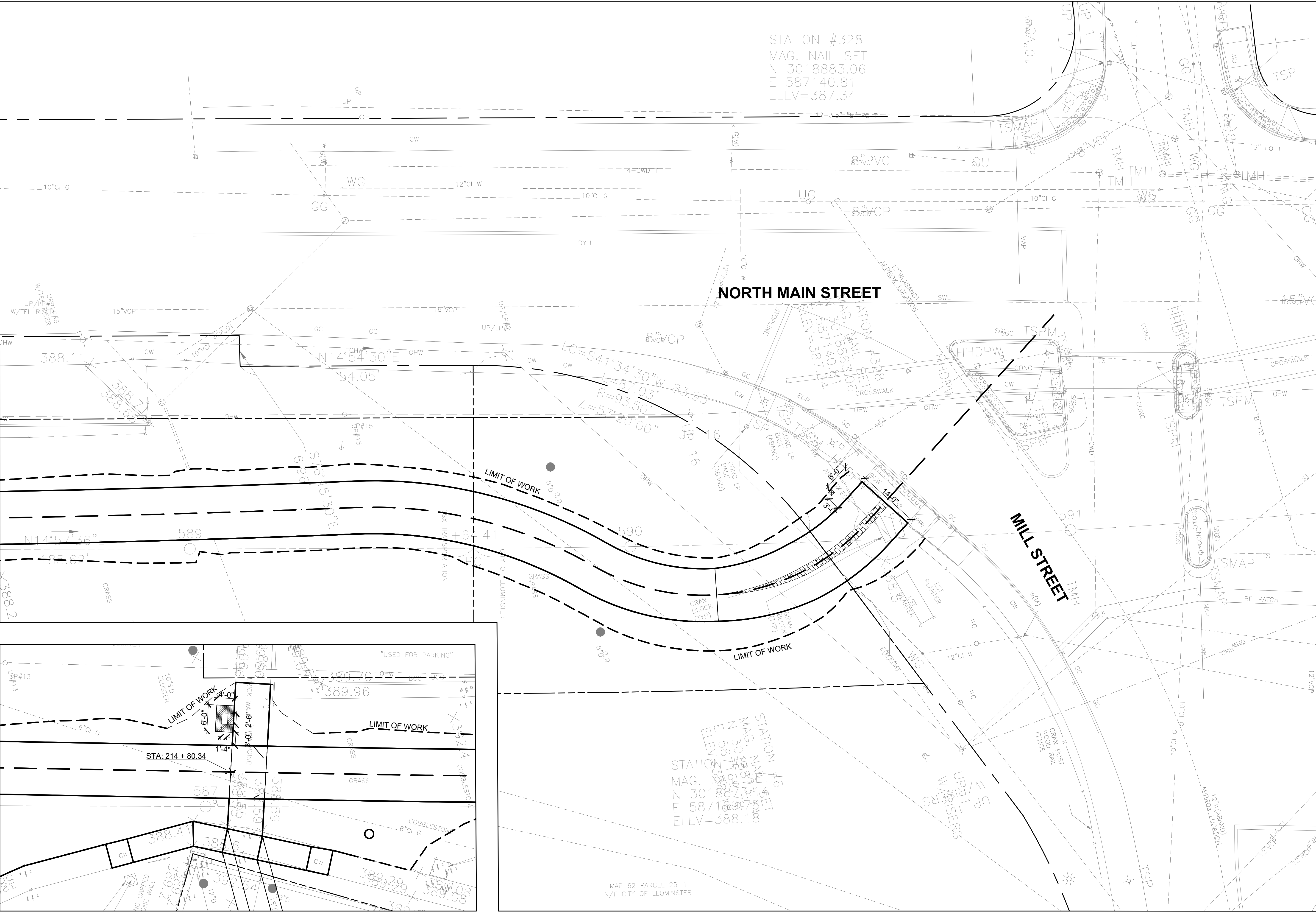
DATE: 12.11.2024

SCALE: 1"=10'-0"

SUBMISSION: BID SET

DRAWING NO.



L2.2



DETAIL PLAN OF INTERPRETIVE SIGN LOCATION

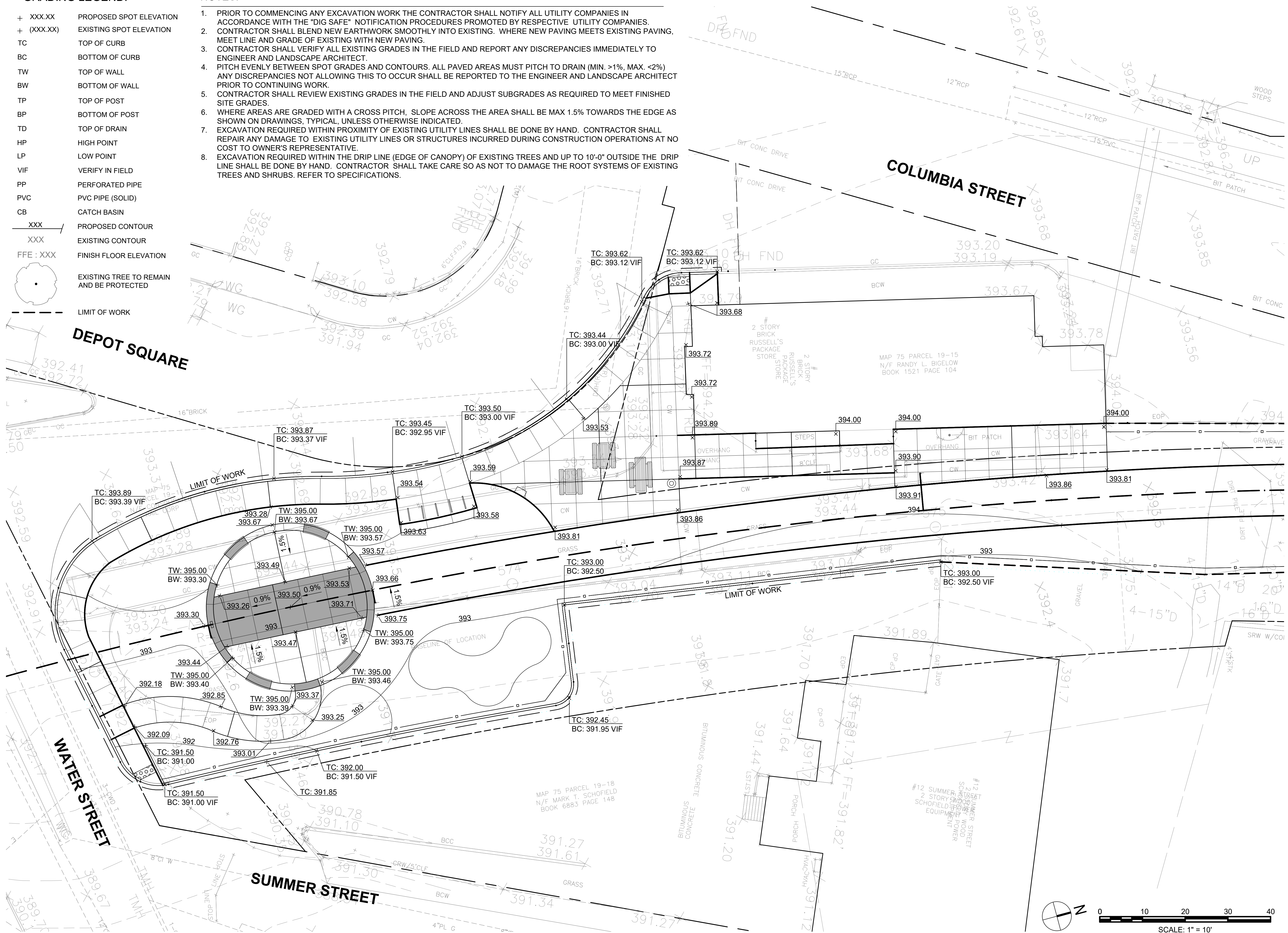
MAP 62 PARCEL 25-1  
N/F CITY OF LEOMINSTER

**GRADING LEGEND:**

- + XXX.XX PROPOSED SPOT ELEVATION
- + (XXX.XX) EXISTING SPOT ELEVATION
- TC TOP OF CURB
- BC BOTTOM OF CURB
- TW TOP OF WALL
- BW BOTTOM OF WALL
- TP TOP OF POST
- BP BOTTOM OF POST
- TD TOP OF DRAIN
- HP HIGH POINT
- LP LOW POINT
- VIF VERIFY IN FIELD
- PP PERFORATED PIPE
- PVC PVC PIPE (SOLID)
- CB CATCH BASIN
- XXX PROPOSED CONTOUR
- XXX EXISTING CONTOUR
- FFE : XXX FINISH FLOOR ELEVATION
-  EXISTING TREE TO REMAIN AND BE PROTECTED
-  LIMIT OF WORK

**NOTES:**

1. PRIOR TO COMMENCING ANY EXCAVATION WORK THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN ACCORDANCE WITH THE "DIG SAFE" NOTIFICATION PROCEDURES PROMOTED BY RESPECTIVE UTILITY COMPANIES. CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY INTO EXISTING. WHERE NEW PAVING MEETS EXISTING PAVING, MEET LINE AND GRADE OF EXISTING WITH NEW PAVING.
2. CONTRACTOR SHALL VERIFY ALL EXISTING GRADES IN THE FIELD AND REPORT ANY DISCREPANCIES IMMEDIATELY TO ENGINEER AND LANDSCAPE ARCHITECT.
3. PITCH EVENLY BETWEEN SPOT GRADES AND CONTOURS. ALL PAVED AREAS MUST PITCH TO DRAIN (MIN. >1%, MAX. <2%) ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE ENGINEER AND LANDSCAPE ARCHITECT PRIOR TO CONTINUING WORK.
4. CONTRACTOR SHALL REVIEW EXISTING GRADES IN THE FIELD AND ADJUST SUBGRADES AS REQUIRED TO MEET FINISHED SITE GRADES.
5. WHERE AREAS ARE GRADED WITH A CROSS PITCH, SLOPE ACROSS THE AREA SHALL BE MAX 1.5% TOWARDS THE EDGE AS SHOWN ON DRAWINGS, TYPICAL, UNLESS OTHERWISE INDICATED.
6. EXCAVATION REQUIRED WITHIN PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO OWNER'S REPRESENTATIVE.
7. EXCAVATION REQUIRED WITHIN THE DRIP LINE (EDGE OF CANOPY) OF EXISTING TREES AND UP TO 10'-0" OUTSIDE THE DRIP LINE SHALL BE DONE BY HAND. CONTRACTOR SHALL TAKE CARE SO AS NOT TO DAMAGE THE ROOT SYSTEMS OF EXISTING TREES AND SHRUBS. REFER TO SPECIFICATIONS.



45 BLUE SKY DRIVE | BURLINGTON, MA 01803

**TWIN CITIES  
RAIL TRAIL**

**WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA**

KEY PLAN:

ISSUE:		
NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

**GRADING PLANS  
PART 1 OF 3**

DESIGNED: JP

DRAWN: JP/CS CHECKED: AR

DATE: 12.11.2024

SCALE: 1"=10'-0"

SUBMISSION: BID SET

DRAWING NO.

**L3.0**

**GRADING LEGEND:**

- + XXX.XX PROPOSED SPOT ELEVATION
- + (XXX.XX) EXISTING SPOT ELEVATION
- TC TOP OF CURB
- BC BOTTOM OF CURB
- TW TOP OF WALL
- BW BOTTOM OF WALL
- TP TOP OF POST
- BP BOTTOM OF POST
- TD TOP OF DRAIN
- HP HIGH POINT
- LP LOW POINT
- VIF VERIFY IN FIELD
- PP PERFORATED PIPE
- PVC PVC PIPE (SOLID)
- CB CATCH BASIN
- XXX --- PROPOSED CONTOUR
- XXX --- EXISTING CONTOUR
- FFE : XXX FINISH FLOOR ELEVATION
- (Tree Symbol) EXISTING TREE TO REMAIN AND BE PROTECTED
- --- LIMIT OF WORK



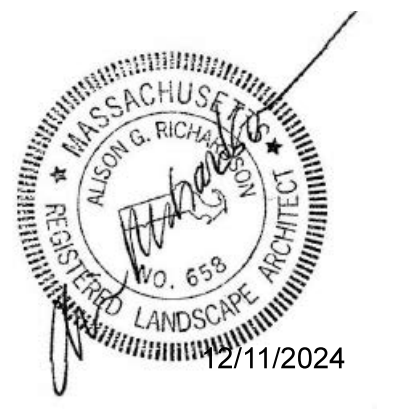
**TWIN CITIES  
RAIL TRAIL**

**WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA**

KEY PLAN:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

**GRADING PLANS  
PART 2 OF 3**

DESIGNED: JP

DRAWN: JP/CS CHECKED: AR

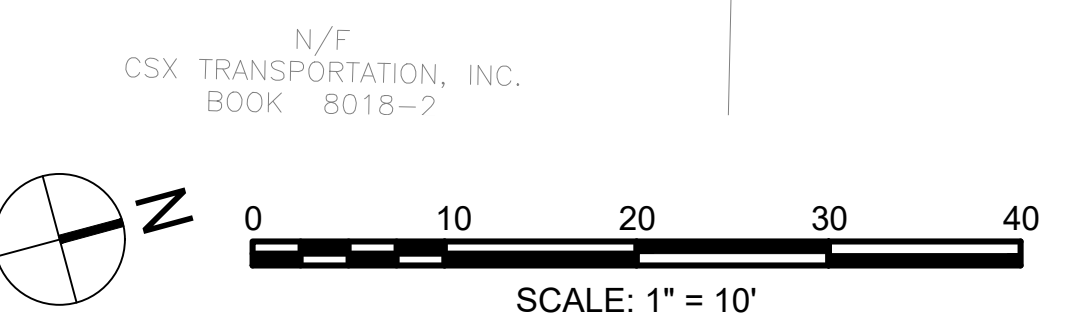
DATE: 12.11.2024

SCALE: 1"=10'-0"

SUBMISSION: BID SET

DRAWING NO.

**L3.1**



75 PARCEL 24-6  
GEHILL MGMT, LLC  
8033 PAGE 353

MAP 75 PARCEL 24-8  
N/F ROSE G. MAURICETTE  
BOOK 8154 PAGE 260

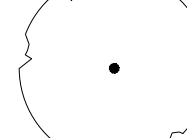
MAP 75 PARCEL 24-3  
N/F RICHARD S. PARTRIDGE  
BOOK 1042 PAGE 515

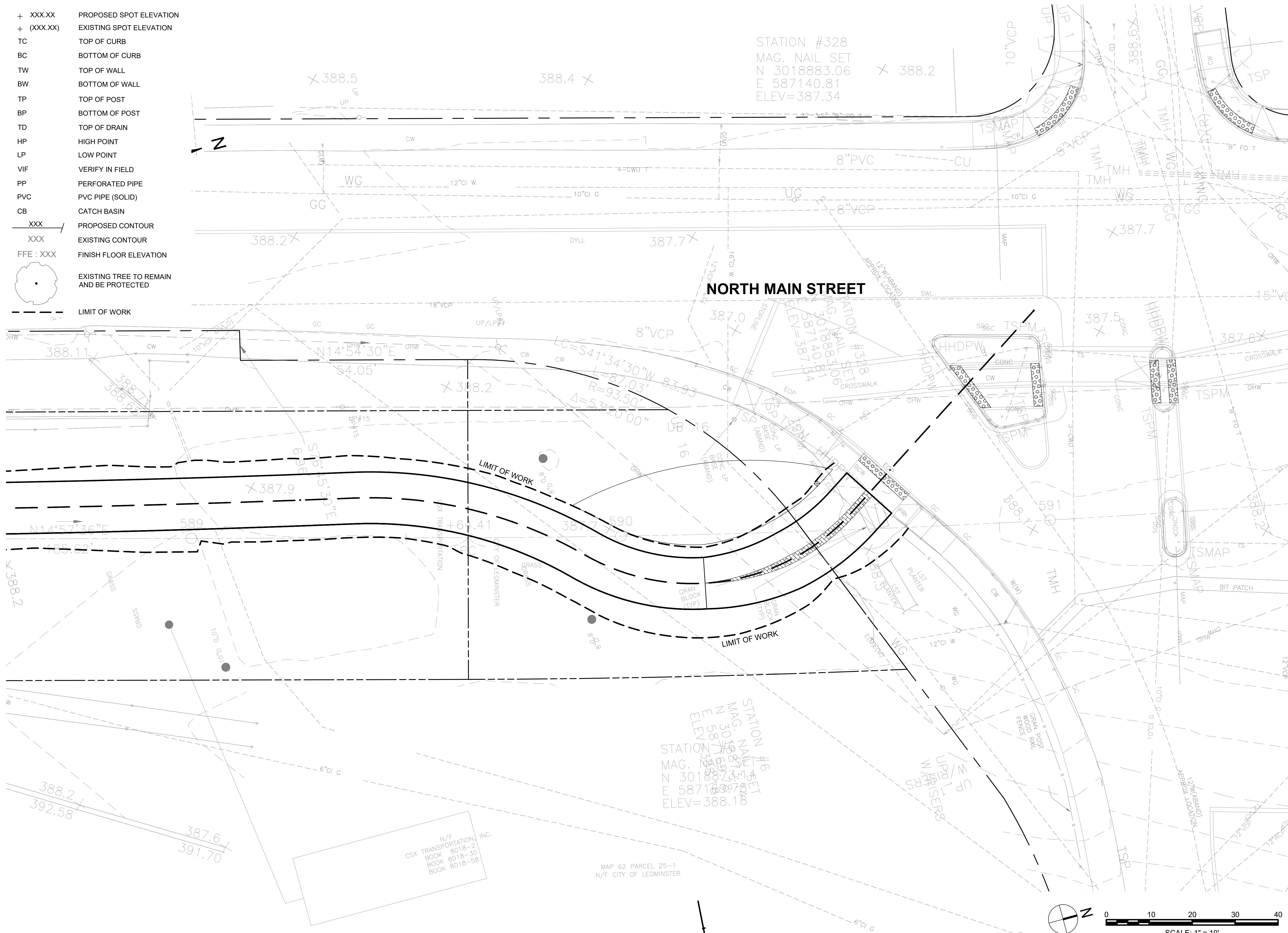
MAP 75 PARCEL 24-10  
N/F MERCY A. MALO  
BOOK 7010 PAGE 34

MAP 75 PARCEL 24-9  
N/F CITY OF LEOMINSTER

N/F  
CSX TRANSPORTATION, INC.  
BOOK 8018-2

**GRADING LEGEND:**

- + XXX.XX PROPOSED SPOT ELEVATION
- + (XXX.XX) EXISTING SPOT ELEVATION
- TC TOP OF CURB
- BC BOTTOM OF CURB
- TW TOP OF WALL
- BW BOTTOM OF WALL
- TP TOP OF POST
- BP BOTTOM OF POST
- TD TOP OF DRAIN
- HP HIGH POINT
- LP LOW POINT
- VIF VERIFY IN FIELD
- PP PERFORATED PIPE
- PVC PVC PIPE (SOLID)
- CB CATCH BASIN
- XXX --- PROPOSED CONTOUR
- XXX --- EXISTING CONTOUR
- FFE : XXX FINISH FLOOR ELEVATION
-  EXISTING TREE TO REMAIN AND BE PROTECTED
- - - - - LIMIT OF WORK



**TWIN CITIES  
RAIL TRAIL**

**WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA**

KEY PLAN:

ISSUE:		
NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

**GRADING PLANS  
PART 3 OF 3**

DESIGNED: JP

DRAWN: JP/CS CHECKED: AR

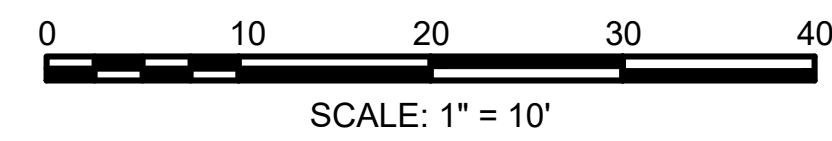
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SUBMISSION: BID SET

DRAWING NO.

**L3.2**

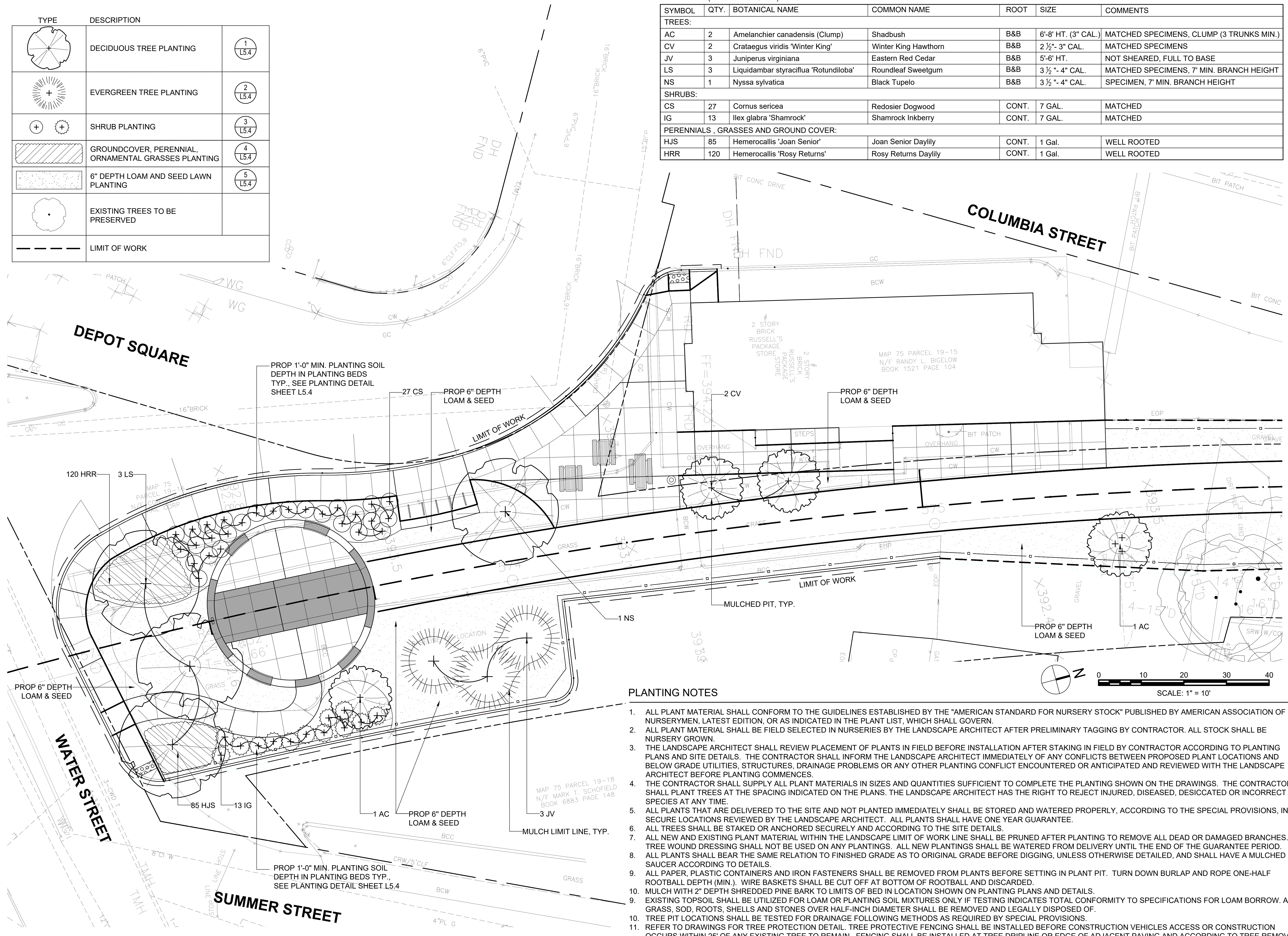


PLANTING LEGEND:

TYPE	DESCRIPTION	
	DECIDUOUS TREE PLANTING	1 L5.4
	EVERGREEN TREE PLANTING	2 L5.4
	SHRUB PLANTING	3 L5.4
	GROUND COVER, PERENNIAL, ORNAMENTAL GRASSES PLANTING	4 L5.4
	6" DEPTH LOAM AND SEED LAWN PLANTING	5 L5.4
	EXISTING TREES TO BE PRESERVED	
	LIMIT OF WORK	

PLANT LIST (THIS SHEET ONLY)

SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
<b>TREES:</b>						
AC	2	Amelanchier canadensis (Clump)	Shadbush	B&B	6'-8" HT. (3" CAL.)	MATCHED SPECIMENS, CLUMP (3 TRUNKS MIN.)
CV	2	Crataegus viridis 'Winter King'	Winter King Hawthorn	B&B	2 1/2" - 3" CAL.	MATCHED SPECIMENS
JV	3	Juniperus virginiana	Eastern Red Cedar	B&B	5'-6" HT.	NOT SHEARED, FULL TO BASE
LS	3	Liquidambar styraciflua 'Rotundiloba'	Roundleaf Sweetgum	B&B	3 1/2" - 4" CAL.	MATCHED SPECIMENS, 7' MIN. BRANCH HEIGHT
NS	1	Nyssa sylvatica	Black Tupelo	B&B	3 1/2" - 4" CAL.	SPECIMEN, 7' MIN. BRANCH HEIGHT
<b>SHRUBS:</b>						
CS	27	Cornus sericea	Redosier Dogwood	CONT.	7 GAL.	MATCHED
IG	13	Ilex glabra 'Shamrock'	Shamrock Inkberry	CONT.	7 GAL.	MATCHED
<b>PERENNIALS, GRASSES AND GROUND COVER:</b>						
HJS	85	Hemerocallis 'Joan Senior'	Joan Senior Daylily	CONT.	1 Gal.	WELL ROOTED
HRR	120	Hemerocallis 'Rosy Returns'	Rosy Returns Daylily	CONT.	1 Gal.	WELL ROOTED



PLANTING NOTES

1. ALL PLANT MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE "AMERICAN STANDARD FOR NURSERY STOCK" PUBLISHED BY AMERICAN ASSOCIATION OF NURSERYMEN, LATEST EDITION, OR AS INDICATED IN THE PLANT LIST, WHICH SHALL GOVERN.
2. ALL PLANT MATERIAL SHALL BE FIELD SELECTED IN NURSERIES BY THE LANDSCAPE ARCHITECT AFTER PRELIMINARY TAGGING BY CONTRACTOR. ALL STOCK SHALL BE NURSERY GROWN.
3. THE LANDSCAPE ARCHITECT SHALL REVIEW PLACEMENT OF PLANTS IN FIELD BEFORE INSTALLATION AFTER STAKING IN FIELD BY CONTRACTOR ACCORDING TO PLANTING PLANS AND SITE DETAILS. THE CONTRACTOR SHALL INFORM THE LANDSCAPE ARCHITECT IMMEDIATELY OF ANY CONFLICTS BETWEEN PROPOSED PLANT LOCATIONS AND BELOW GRADE UTILITIES, STRUCTURES, DRAINAGE PROBLEMS OR ANY OTHER PLANTING CONFLICT ENCOUNTERED OR ANTICIPATED AND REVIEWED WITH THE LANDSCAPE ARCHITECT BEFORE PLANTING COMMENCES.
4. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN SIZES AND QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL PLANT TREES AT THE SPACING INDICATED ON THE PLANS. THE LANDSCAPE ARCHITECT HAS THE RIGHT TO REJECT INJURED, DISEASED, DESICCATED OR INCORRECT SPECIES AT ANY TIME.
5. ALL PLANTS THAT ARE DELIVERED TO THE SITE AND NOT PLANTED IMMEDIATELY SHALL BE STORED AND WATERED PROPERLY, ACCORDING TO THE SPECIAL PROVISIONS, IN SECURE LOCATIONS REVIEWED BY THE LANDSCAPE ARCHITECT. ALL PLANTS SHALL HAVE ONE YEAR GUARANTEE.
6. ALL TREES SHALL BE STAKED OR ANCHORED SECURELY AND ACCORDING TO THE SITE DETAILS.
7. ALL NEW AND EXISTING PLANT MATERIAL WITHIN THE LANDSCAPE LIMIT OF WORK LINE SHALL BE PRUNED AFTER PLANTING TO REMOVE ALL DEAD OR DAMAGED BRANCHES. TREE WOUND DRESSING SHALL NOT BE USED ON ANY PLANTINGS. ALL NEW PLANTINGS SHALL BE WATERED FROM DELIVERY UNTIL THE END OF THE GUARANTEE PERIOD.
8. ALL PLANTS SHALL BEAR THE SAME RELATION TO FINISHED GRADE AS TO ORIGINAL GRADE BEFORE DIGGING, UNLESS OTHERWISE DETAILED, AND SHALL HAVE A MULCHED SAUCER ACCORDING TO DETAILS.
9. ALL PAPER, PLASTIC CONTAINERS AND IRON FASTENERS SHALL BE REMOVED FROM PLANTS BEFORE SETTING IN PLANT PIT. TURN DOWN BURLAP AND ROPE ONE-HALF ROOTBALL DEPTH (MIN.). WIRE BASKETS SHALL BE CUT OFF AT BOTTOM OF ROOTBALL AND DISCARDED.
10. MULCH WITH 2" DEPTH SHREDDED PINE BARK TO LIMITS OF BED IN LOCATION SHOWN ON PLANTING PLANS AND DETAILS.
9. EXISTING TOPSOIL SHALL BE UTILIZED FOR LOAM OR PLANTING SOIL MIXTURES ONLY IF TESTING INDICATES TOTAL CONFORMITY TO SPECIFICATIONS FOR LOAM BORROW. ALL GRASS, SOD, ROOTS, SHELLS AND STONES OVER HALF-INCH DIAMETER SHALL BE REMOVED AND LEGALLY DISPOSED OF.
10. TREE PIT LOCATIONS SHALL BE TESTED FOR DRAINAGE FOLLOWING METHODS AS REQUIRED BY SPECIAL PROVISIONS.
11. REFER TO DRAWINGS FOR TREE PROTECTION DETAIL. TREE PROTECTIVE FENCING SHALL BE INSTALLED BEFORE CONSTRUCTION VEHICLES ACCESS OR CONSTRUCTION OCCURS WITHIN 25' OF ANY EXISTING TREE TO REMAIN. FENCING SHALL BE INSTALLED AT TREE DRILLING OR EDGE OF ADJACENT PAVING AND ACCORDING TO TREE REMOVAL AND PROTECTION PLANS AND WITH REVIEW OF THE ENGINEER AND LANDSCAPE ARCHITECT. REMOVAL SHALL BE AT COMPLETION OF CONSTRUCTION IN THE VICINITY.

BROWN, RICHARDSON + ROWE

LANDSCAPE ARCHITECTS AND PLANNERS  
65 FRANKLIN STREET, 4TH FLOOR  
BOSTON, MA 02109

T: 617.542.8552 F: 617.542.8517 WWW.BROWNRW.COM



TWIN CITIES RAIL TRAIL

WATER STREET TO MAIN STREET  
LEOMINSTER, MA

KEY PLAN:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

PLANTING PLANS  
PART 1 OF 3

DESIGNED: JP

DRAWN: JP/CS CHECKED: AR

DATE: 12.11.2024

SCALE: 1"=10'-0"

SUBMISSION: BID SET

DRAWING NO.

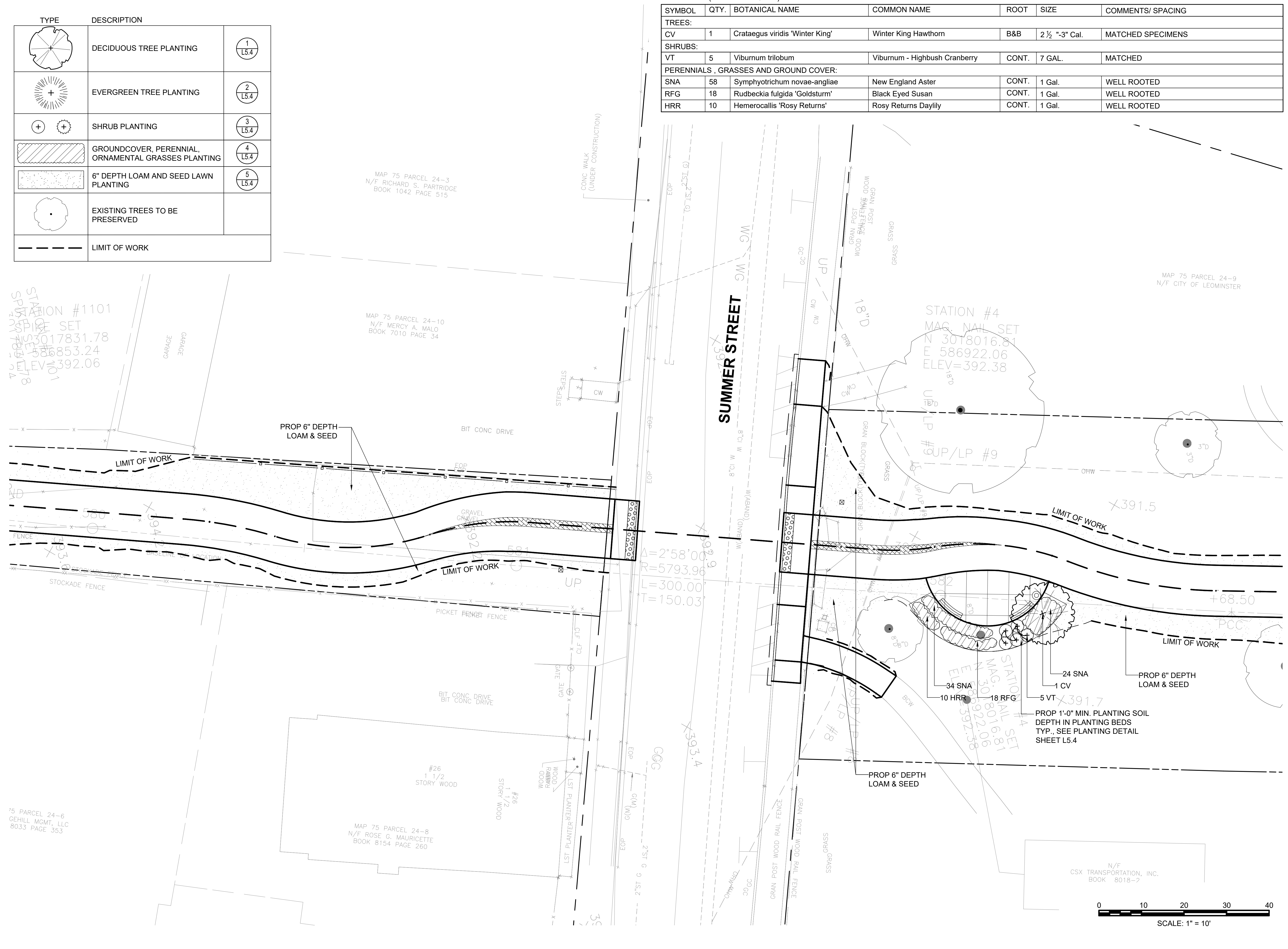
L4.0

PLANTING LEGEND:

TYPE	DESCRIPTION	
	DECIDUOUS TREE PLANTING	1 L5.4
	EVERGREEN TREE PLANTING	2 L5.4
	SHRUB PLANTING	3 L5.4
	GROUND COVER, PERENNIAL, ORNAMENTAL GRASSES PLANTING	4 L5.4
	6" DEPTH LOAM AND SEED LAWN PLANTING	5 L5.4
	EXISTING TREES TO BE PRESERVED	
	LIMIT OF WORK	

PLANT LIST (THIS SHEET ONLY)

SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS/ SPACING
<b>TREES:</b>						
CV	1	Crataegus viridis 'Winter King'	Winter King Hawthorn	B&B	2 1/2 "-3" Cal.	MATCHED SPECIMENS
<b>SHRUBS:</b>						
VT	5	Viburnum trilobum	Viburnum - Highbush Cranberry	CONT.	7 GAL.	MATCHED
<b>PERENNIALS, GRASSES AND GROUND COVER:</b>						
SNA	58	Symphyotrichum novae-angliae	New England Aster	CONT.	1 Gal.	WELL ROOTED
RFG	18	Rudbeckia fulgida 'Goldsturm'	Black Eyed Susan	CONT.	1 Gal.	WELL ROOTED
HRR	10	Hemerocallis 'Rosy Returns'	Rosy Returns Daylily	CONT.	1 Gal.	WELL ROOTED



TWIN CITIES  
RAIL TRAIL

WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA

KEY PLAN:

ISSUE:		
NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

PLANTING PLANS  
PART 2 OF 3

DESIGNED: JP

DRAWN: JP/CS CHECKED: AR

DATE: 12.11.2024

SCALE: 1"=10'-0"

SUBMISSION: BID SET

DRAWING NO.

L4.1

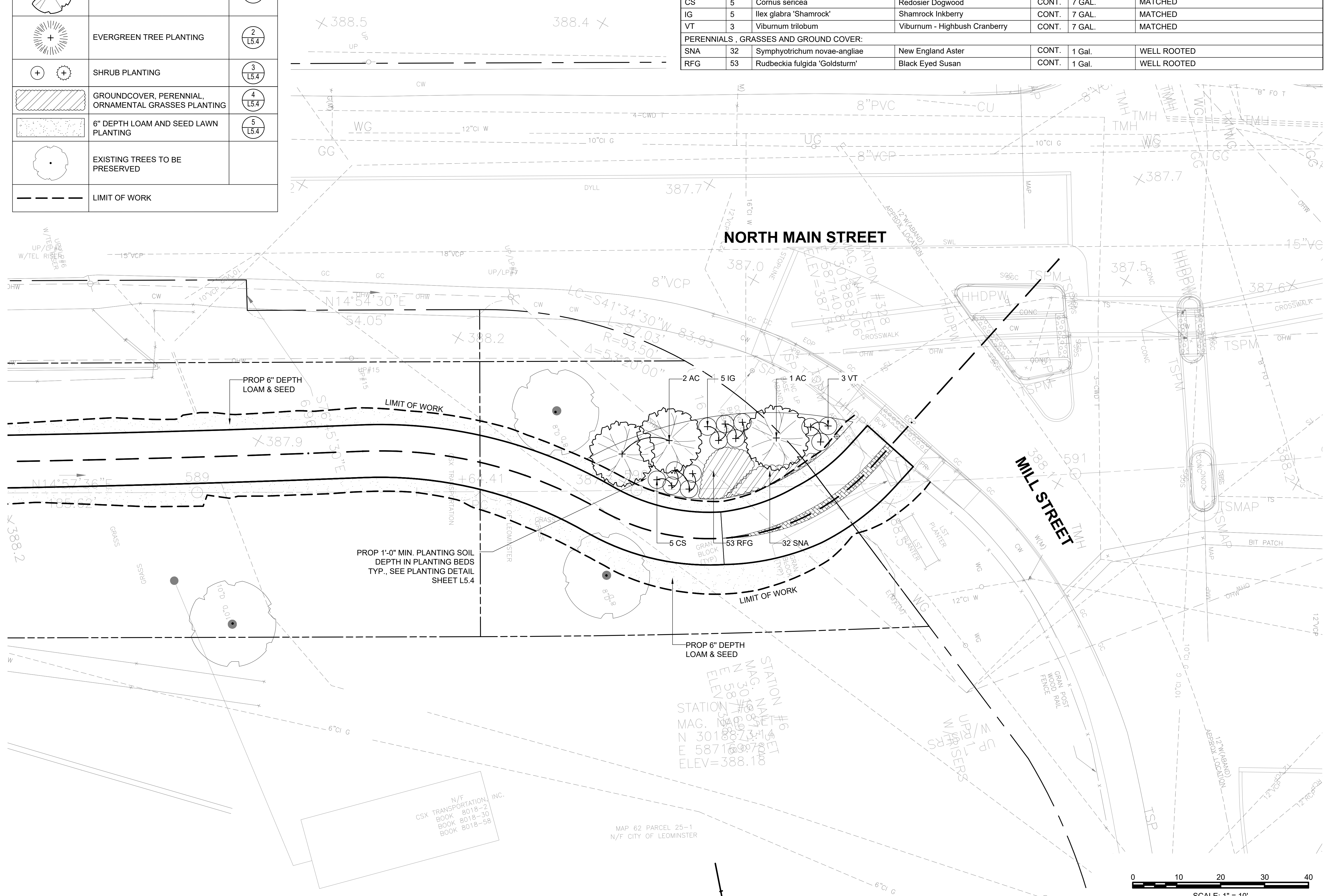


PLANTING LEGEND:

TYPE	DESCRIPTION	
	DECIDUOUS TREE PLANTING	1 L5.4
	EVERGREEN TREE PLANTING	2 L5.4
	SHRUB PLANTING	3 L5.4
	GROUNDCOVER, PERENNIAL, ORNAMENTAL GRASSES PLANTING	4 L5.4
	6" DEPTH LOAM AND SEED LAWN PLANTING	5 L5.4
	EXISTING TREES TO BE PRESERVED	
	LIMIT OF WORK	

PLANT LIST (THIS SHEET ONLY)

SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
<b>TREES:</b>						
AC	3	Amelanchier canadensis (Clump)	Shadbush	B&B	6'-8' HT. (3" CAL.)	MATCHED SPECIMENS, CLUMP (3 TRUNKS MIN.)
<b>SHRUBS:</b>						
CS	5	Cornus sericea	Redosier Dogwood	CONT.	7 GAL.	MATCHED
IG	5	Ilex glabra 'Shamrock'	Shamrock Inkberry	CONT.	7 GAL.	MATCHED
VT	3	Viburnum trilobum	Viburnum - Highbush Cranberry	CONT.	7 GAL.	MATCHED
<b>PERENNIALS, GRASSES AND GROUND COVER:</b>						
SNA	32	Symphotrichum novae-angliae	New England Aster	CONT.	1 Gal.	WELL ROOTED
RFG	53	Rudbeckia fulgida 'Goldsturm'	Black Eyed Susan	CONT.	1 Gal.	WELL ROOTED



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TWIN CITIES RAIL TRAIL

WATER STREET TO MAIN STREET  
LEOMINSTER, MA

KEY PLAN:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

PLANTING PLANS  
PART 3 OF 3

DESIGNED: JP

DRAWN: JP/CS CHECKED: AR

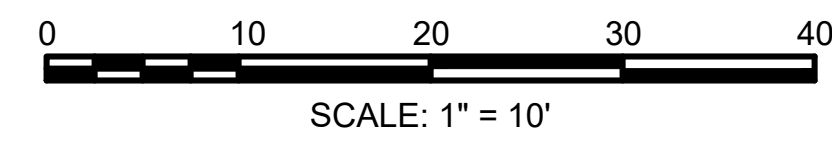
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SUBMISSION: BID SET

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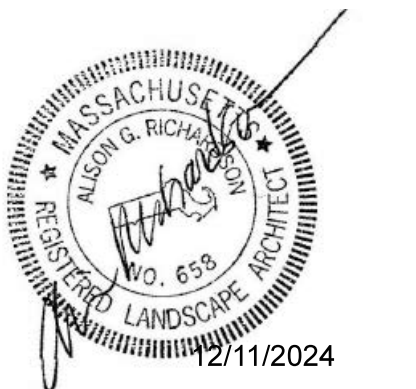
**TWIN CITIES  
RAIL TRAIL**

**WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA**

KEY PLAN:

ISSUE:		
NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

**LANDSCAPE DETAILS  
PART 1 OF 5**

DESIGNED: JP

DRAWN: JP/CS CHECKED: AR

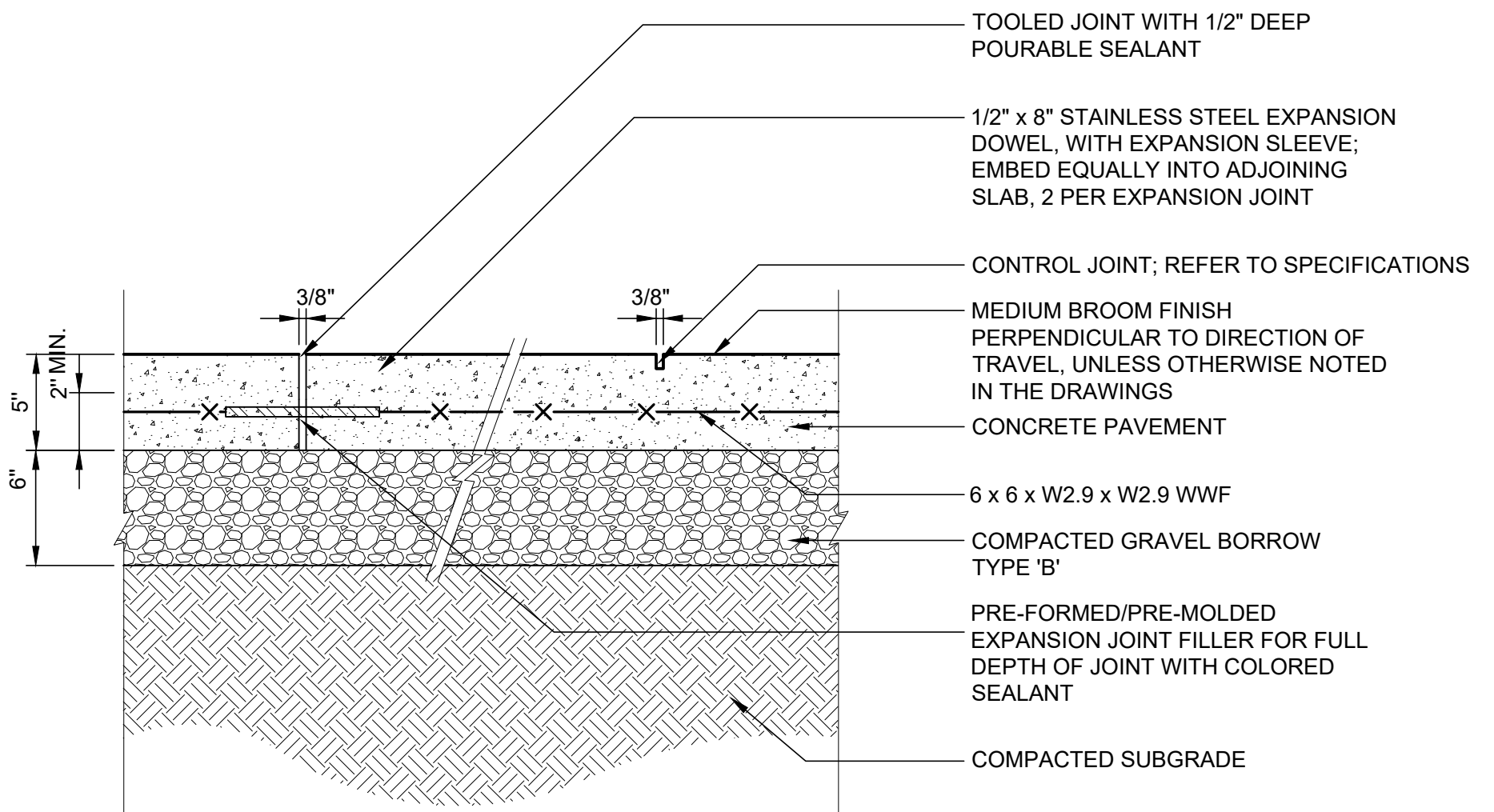
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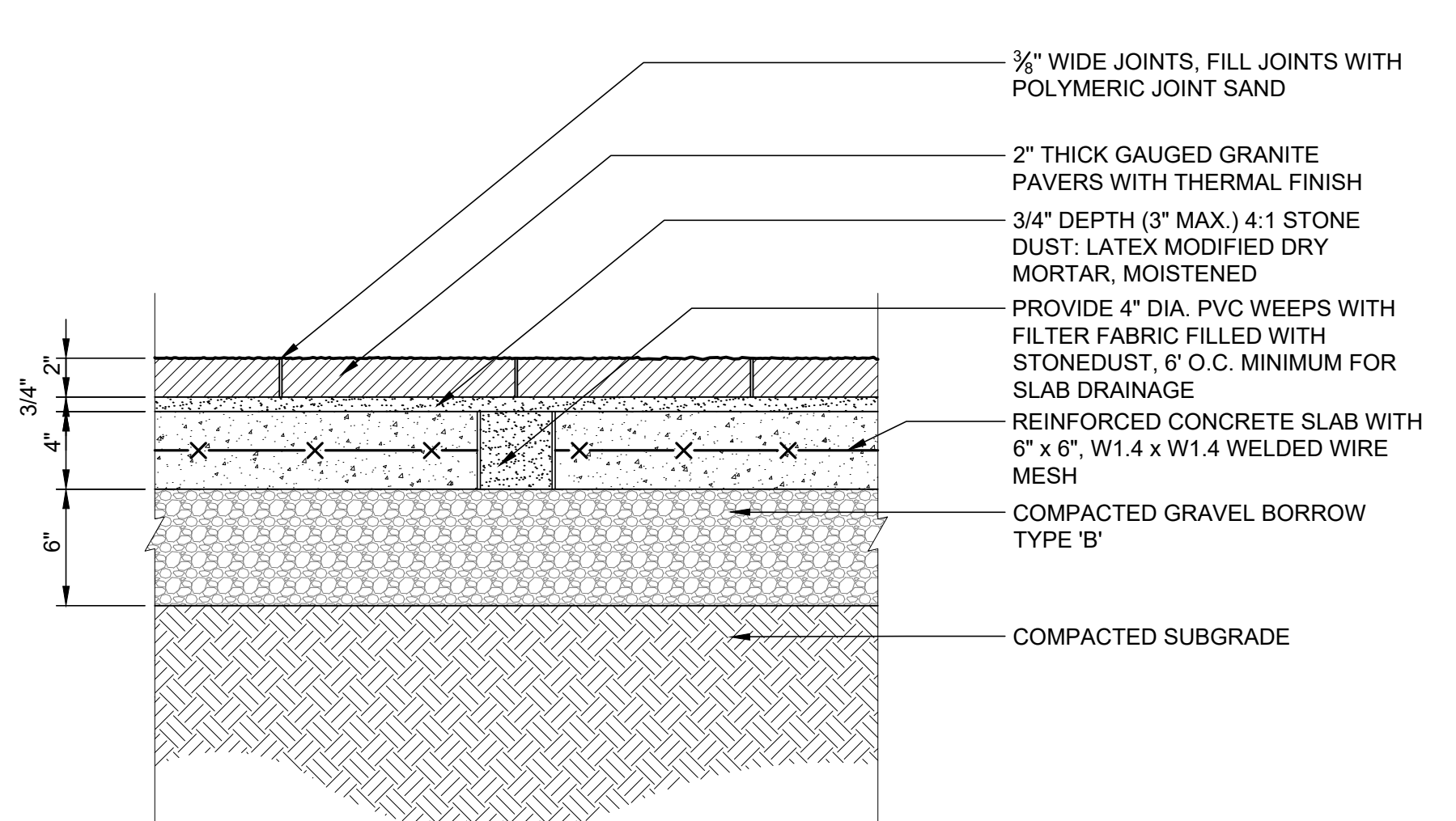
**L5.0**



- NOTES:
1. UTILIZE EXPANSION JOINT FOR ALL CONSTRUCTION JOINT REQUIREMENTS, 30' O.C. MINIMUM.
  2. UTILIZE 3/4" EXPANSION JOINT AT ALL VERTICAL STRUCTURE INTERFACES. USE 3/8" EXPANSION JOINTS AT ALL PAVING JOINT.
  3. PROVIDE CONTROL JOINTS IN LAYOUT APPROVED IN SHOP DRAWING.
  4. REFER TO PLANS AND SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

**1 PEDESTRIAN CONCRETE PAVING**

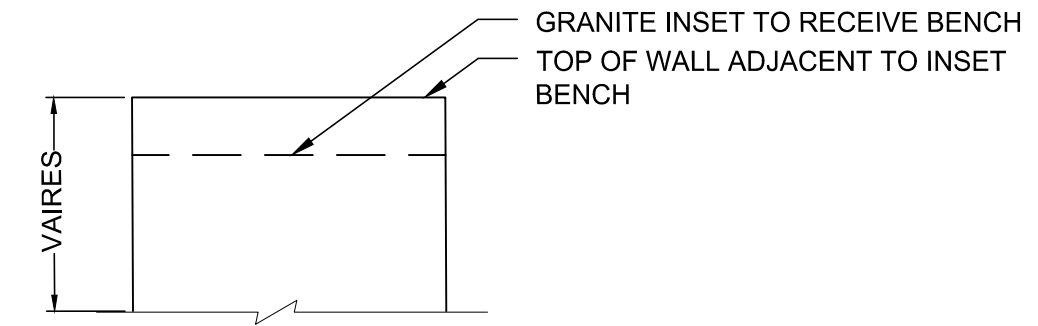
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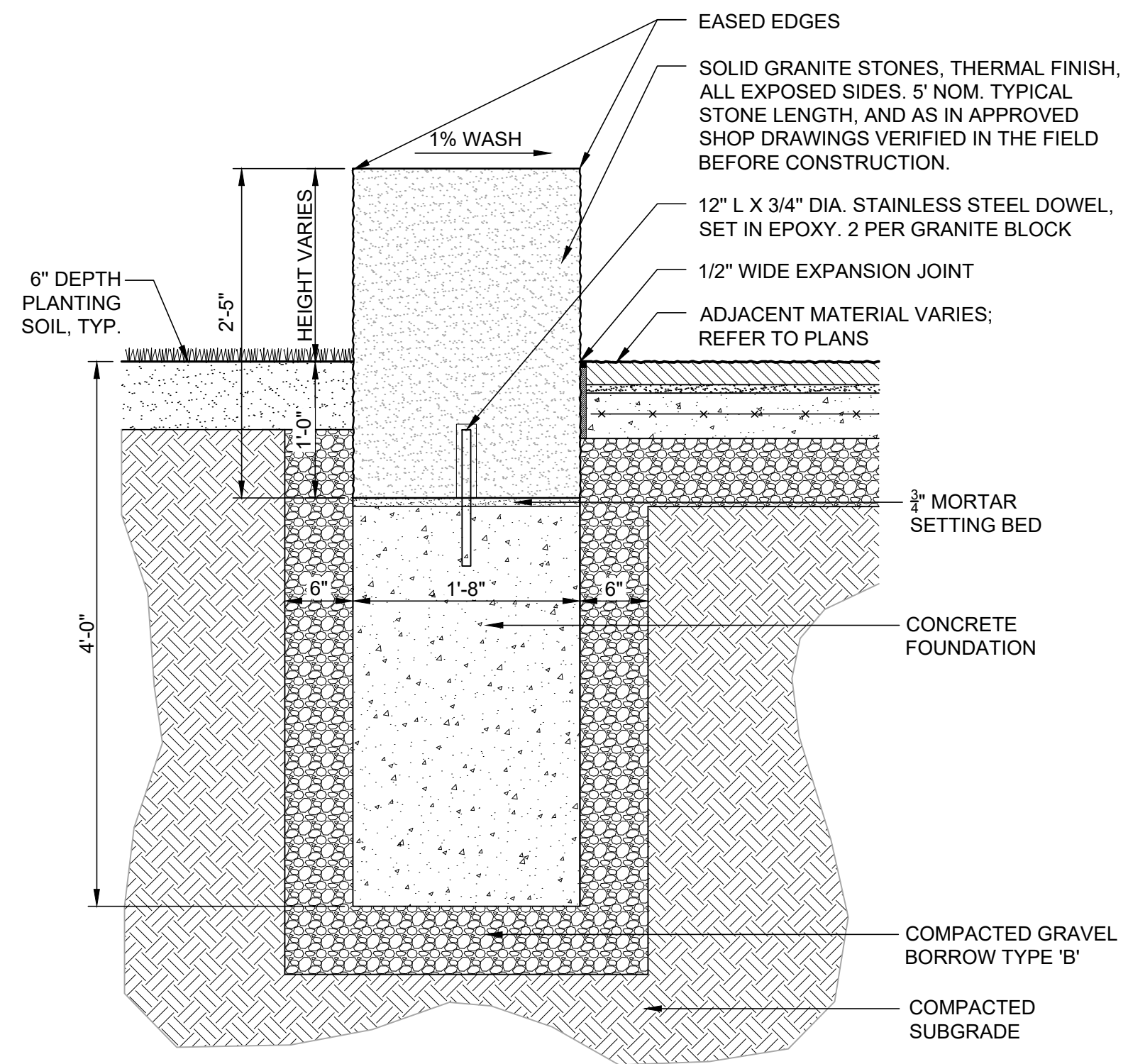
- NOTES:
1. ALL PAVERS ARE 2 1/2" THICK, MIN. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
  2. ALL EXPOSED EDGES OF GRANITE SHALL BE THERMAL FINISH.
  3. JOINT SAND COLOR TO BE SELECTED FROM SAMPLES.
  4. INSTALL 3/4" EXPANSION JOINT AT ALL VERTICAL STRUCTURE INTERFACE.
  5. INSTALL 3/8" EXPANSION JOINT AT ALL PAVING JOINTS, 30' O.C. MIN.

**2 GRANITE PAVING**

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

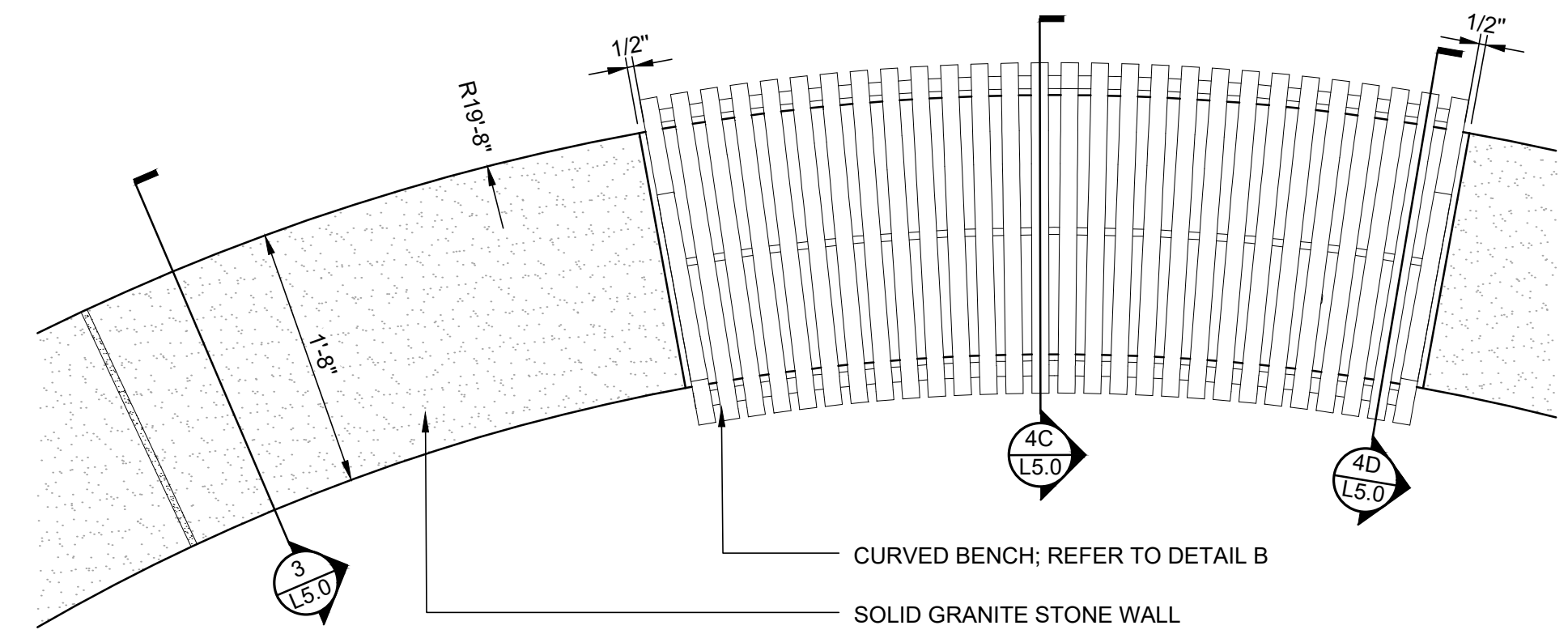


**D. SECTION**

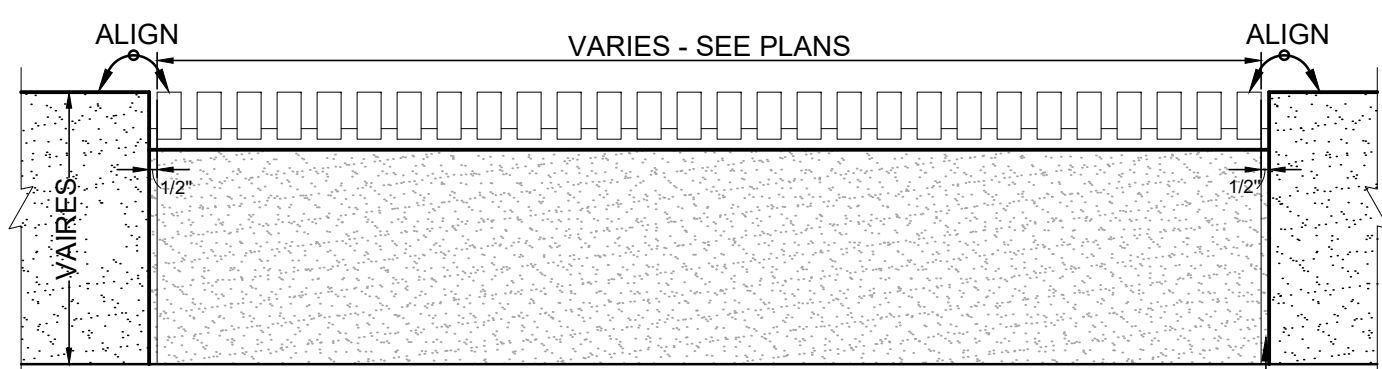


**3 GRANITE SEAT WALL**

SCALE: 1"=1'-0"



**A. PLAN**

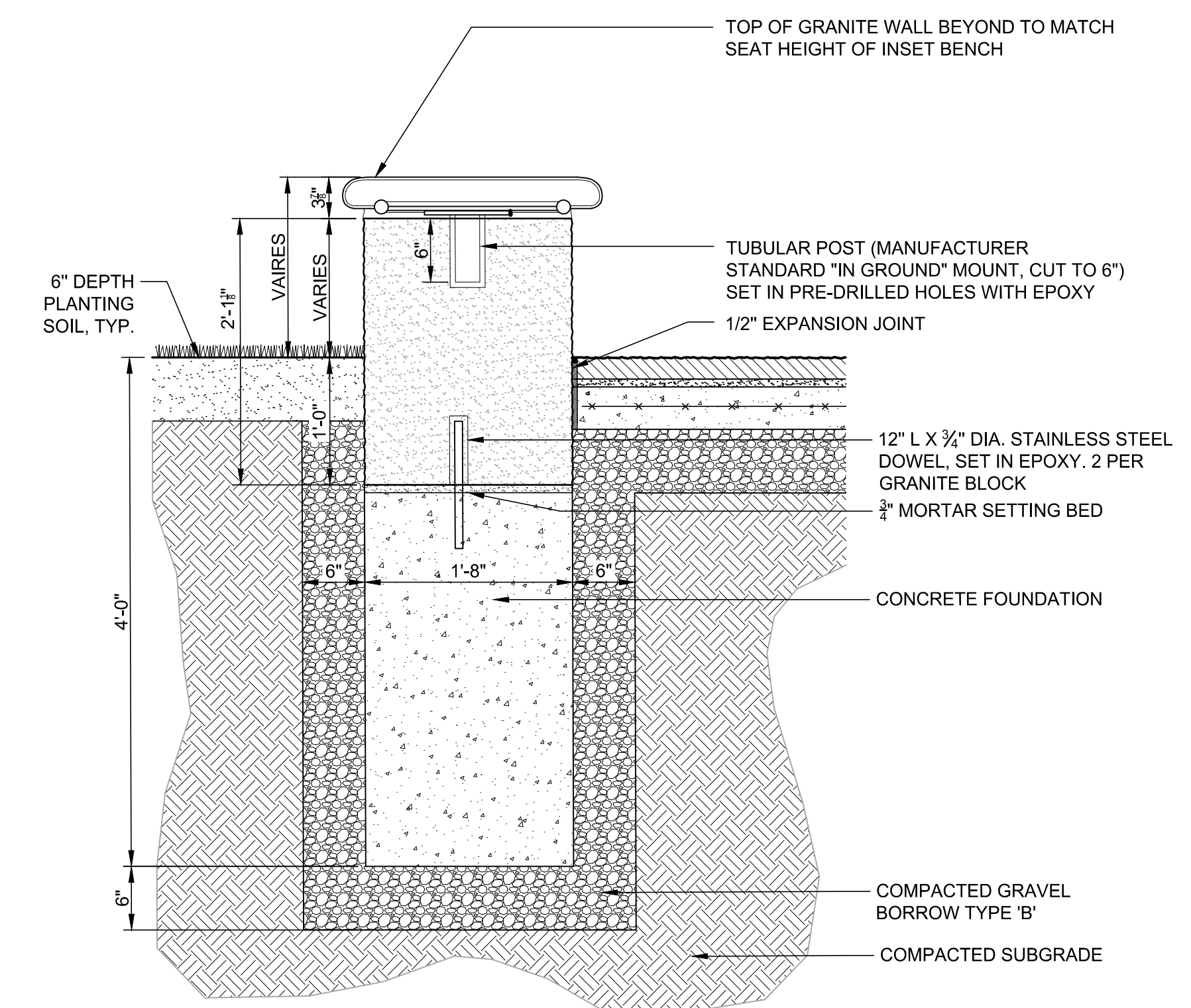


**B. FRONT ELEVATION**

- NOTES:
1. CONTRACTOR TO VERIFY DEPTH OF WALL INSET IN ORDER TO RECEIVE BENCH DURING SHOP DRAWING REVIEW PROCESS
  2. ADD NOTES FROM GRADING PLAN SHEET
- COLOR ON MORTAR JOINT

**4 GRANITE SEAT WALL WITH BENCH**

SCALE: 1"=1'-0"



**C. SECTION**

TWIN CITIES  
RAIL TRAIL

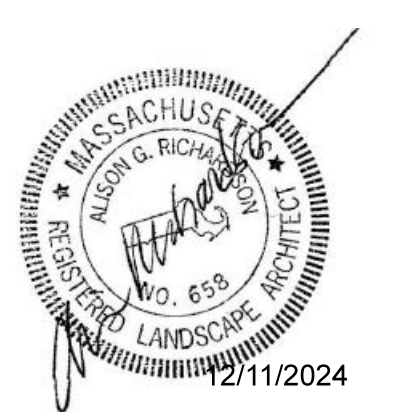
WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA

KEY PLAN:

ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

LANDSCAPE DETAILS  
PART 2 OF 5

DESIGNED: JP

DRAWN: JP/CS CHECKED: AR

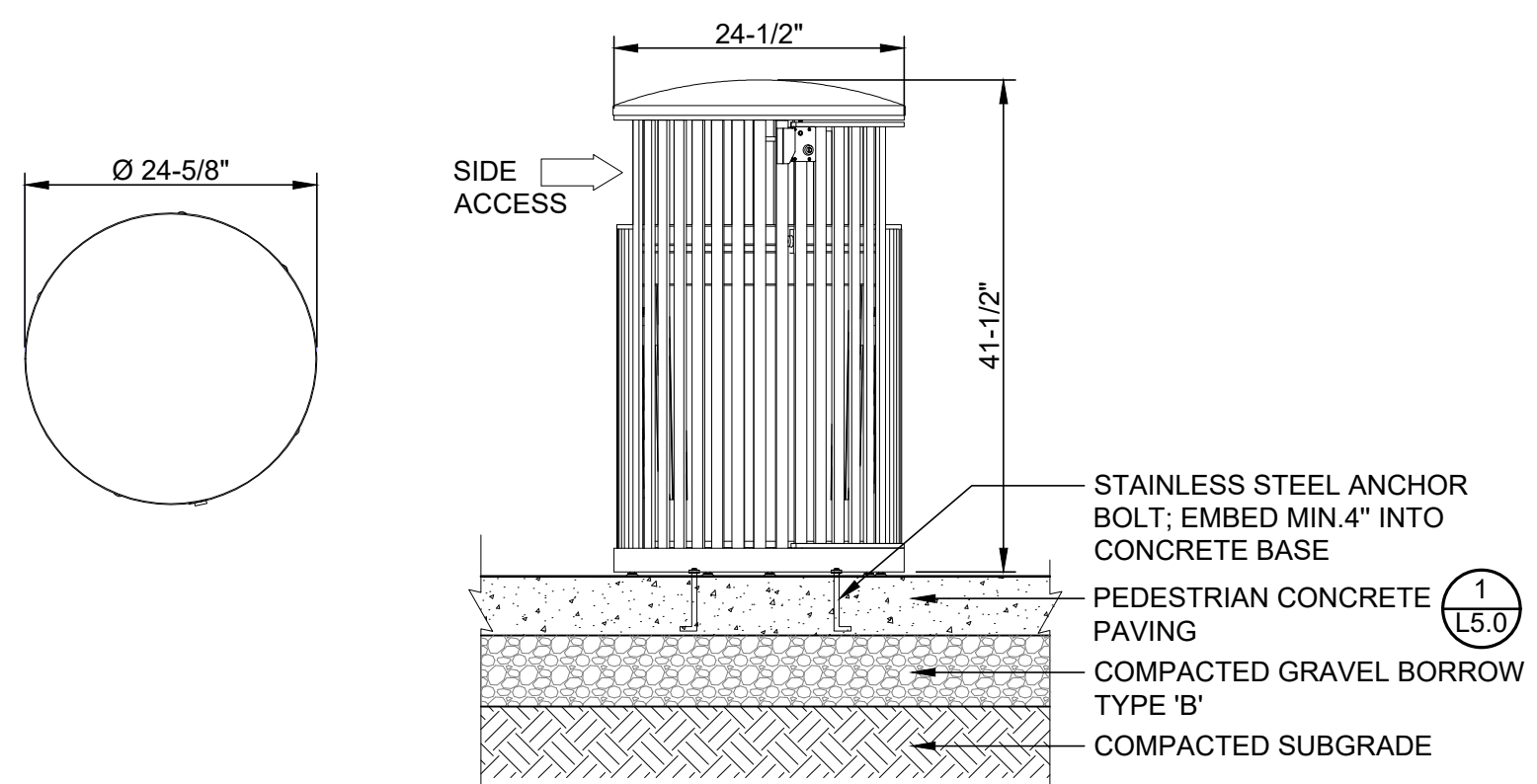
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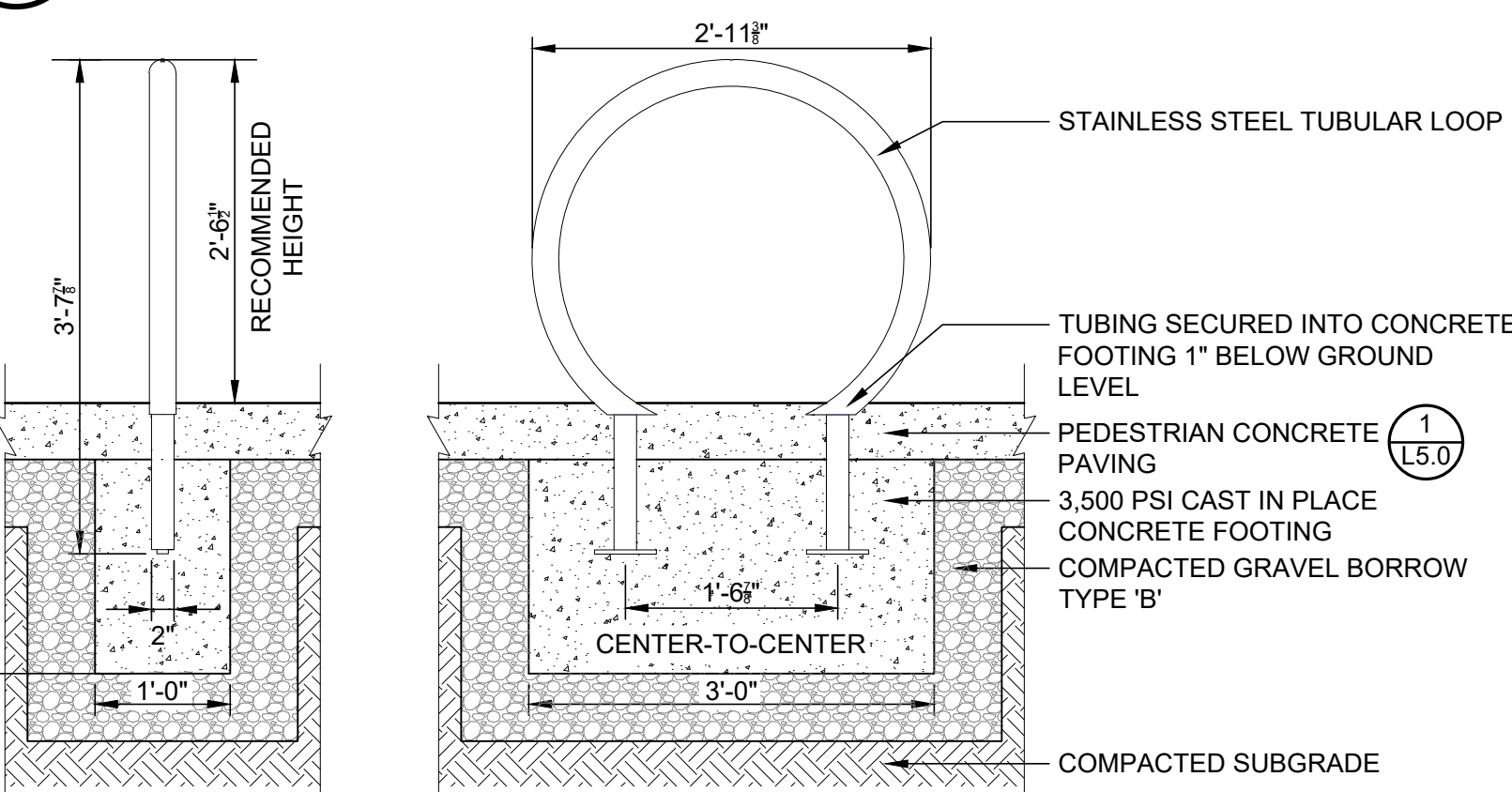
SUBMISSION: BID SET

DRAWING NO.

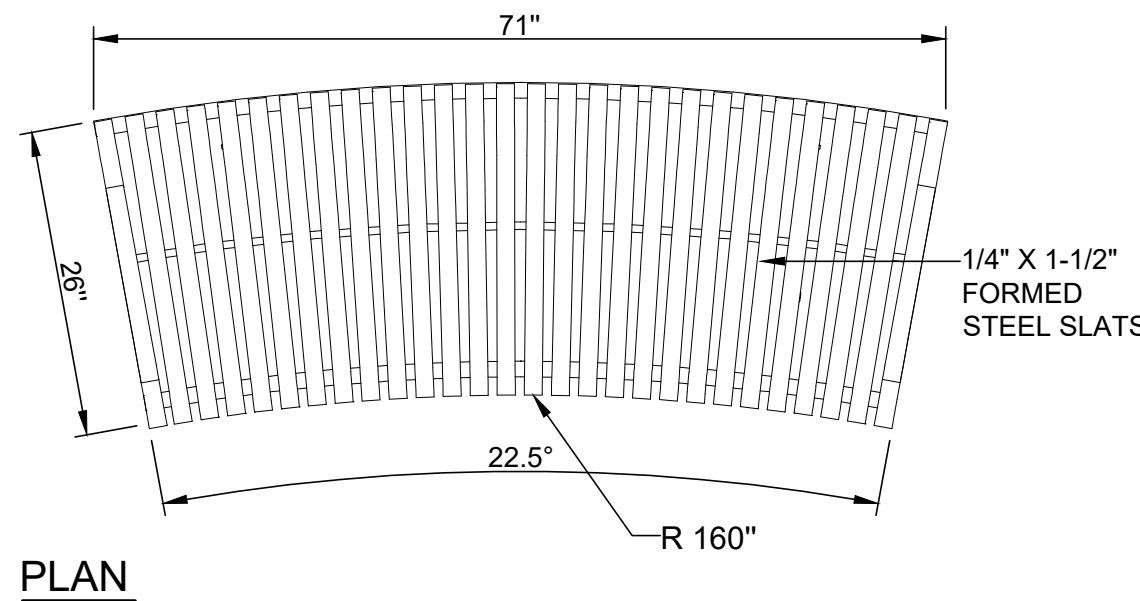
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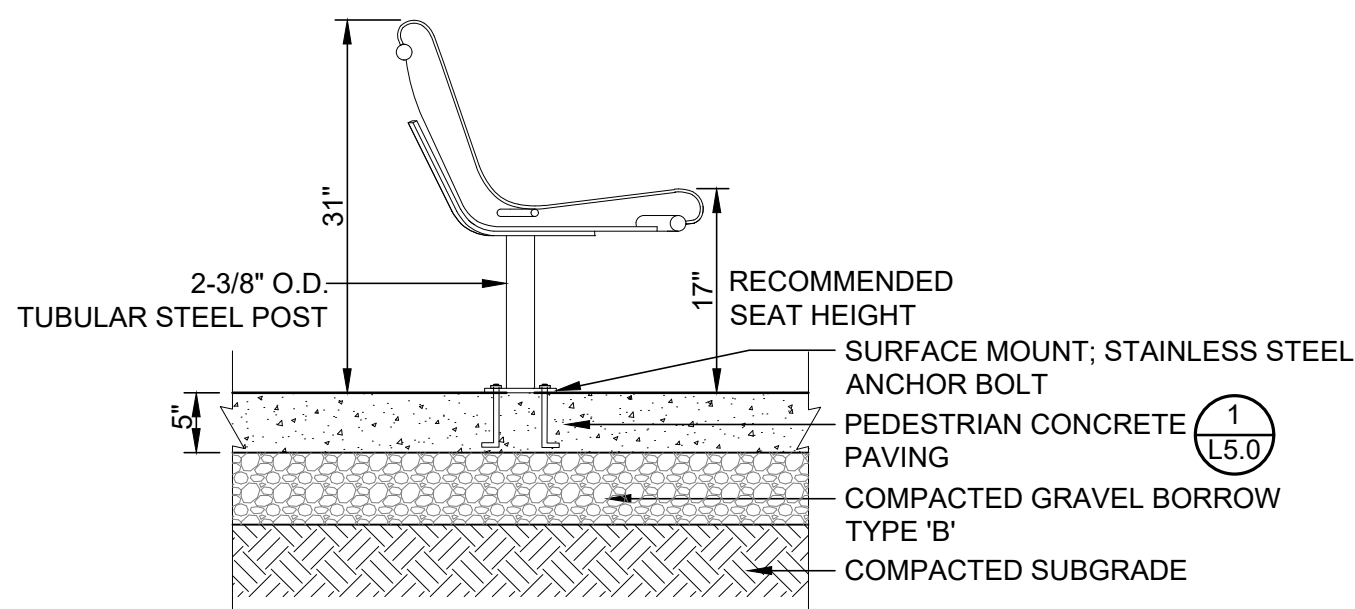
1 TRASH RECEPTACLE  
SCALE: 3/4"=1'-0"



2 BICYCLE RACK  
SCALE: 3/4"=1'-0"

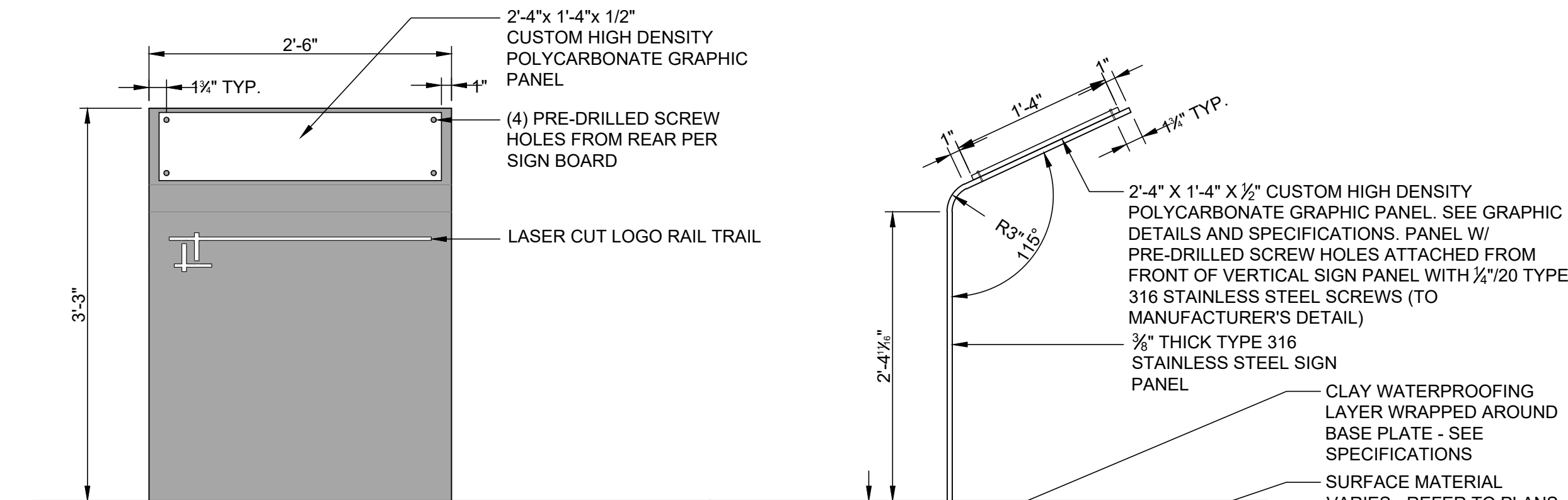


PLAN

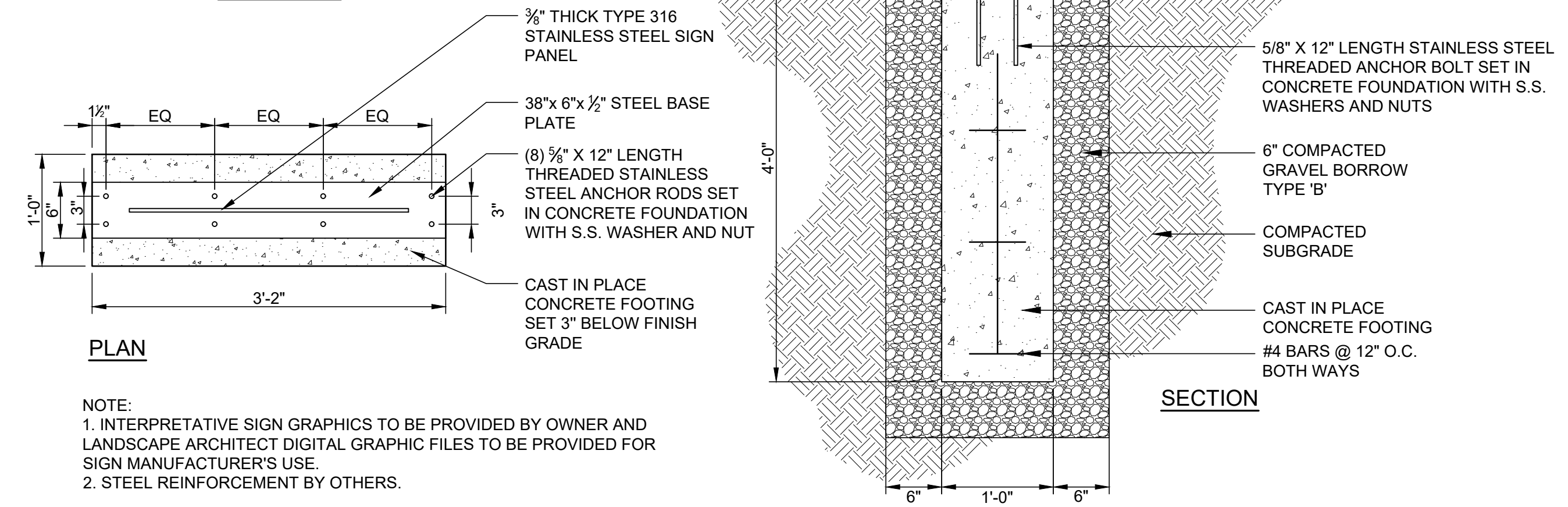


SECTION

3 CURVED PARK BENCH  
SCALE: 3/4"=1'-0"



ELEVATION

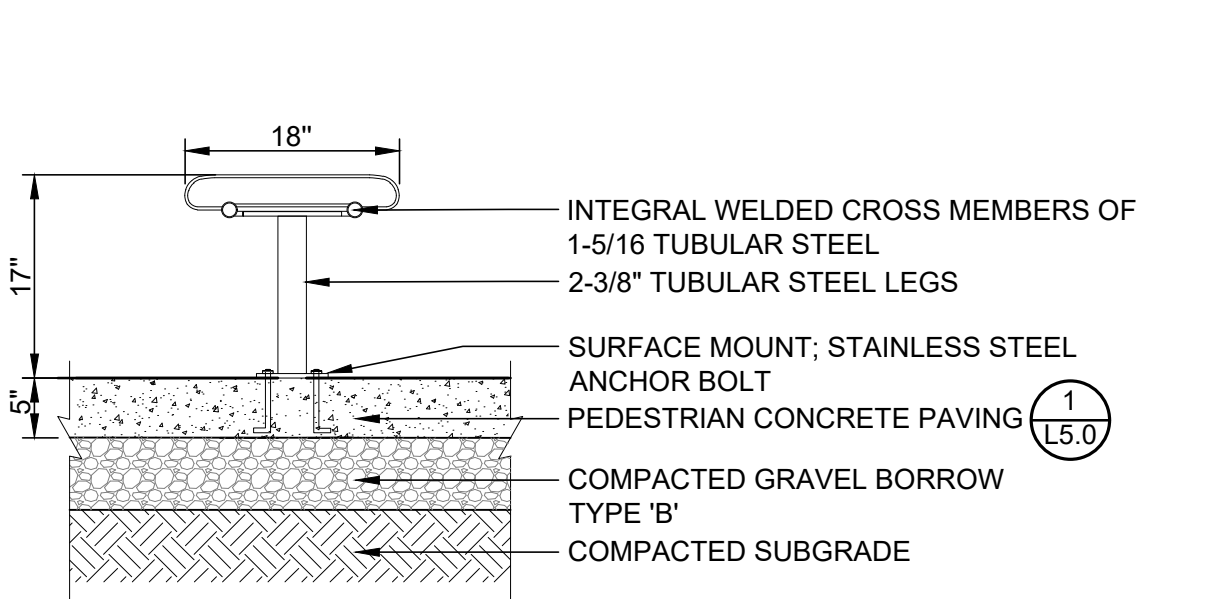


PLAN

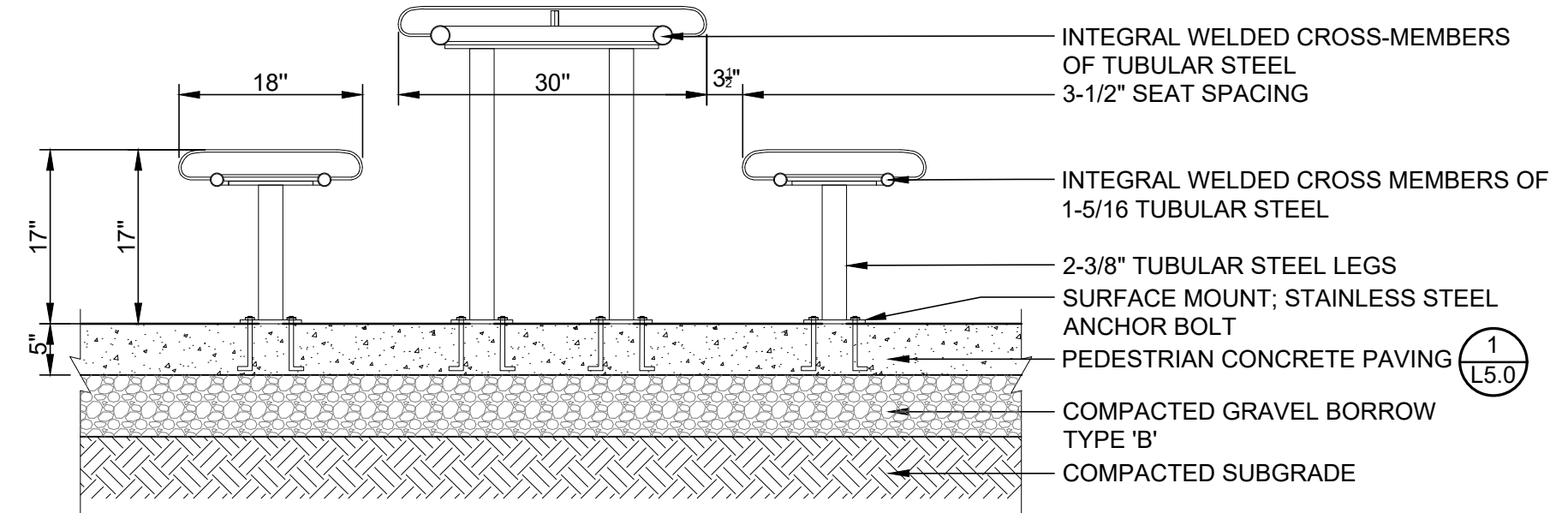
SECTION

NOTE:  
1. INTERPRETATIVE SIGN GRAPHICS TO BE PROVIDED BY OWNER AND LANDSCAPE ARCHITECT DIGITAL GRAPHIC FILES TO BE PROVIDED FOR SIGN MANUFACTURER'S USE.  
2. STEEL REINFORCEMENT BY OTHERS.

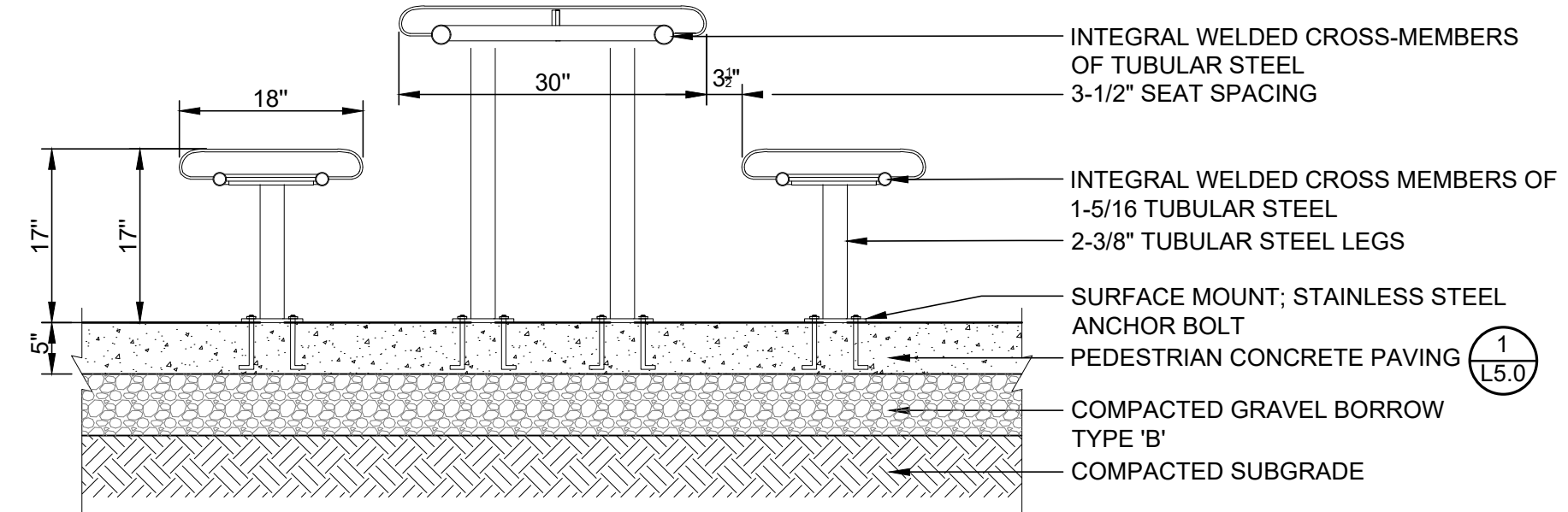
4 INTERPRETIVE SIGN  
SCALE: 1"=1'-0"



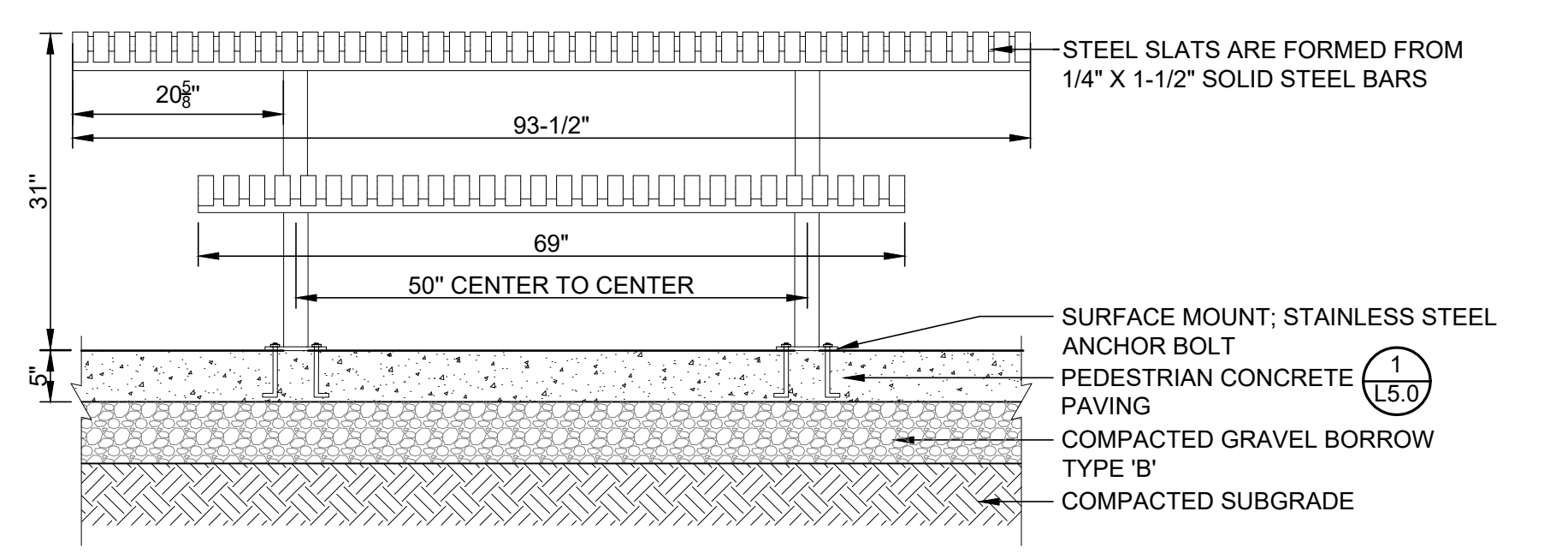
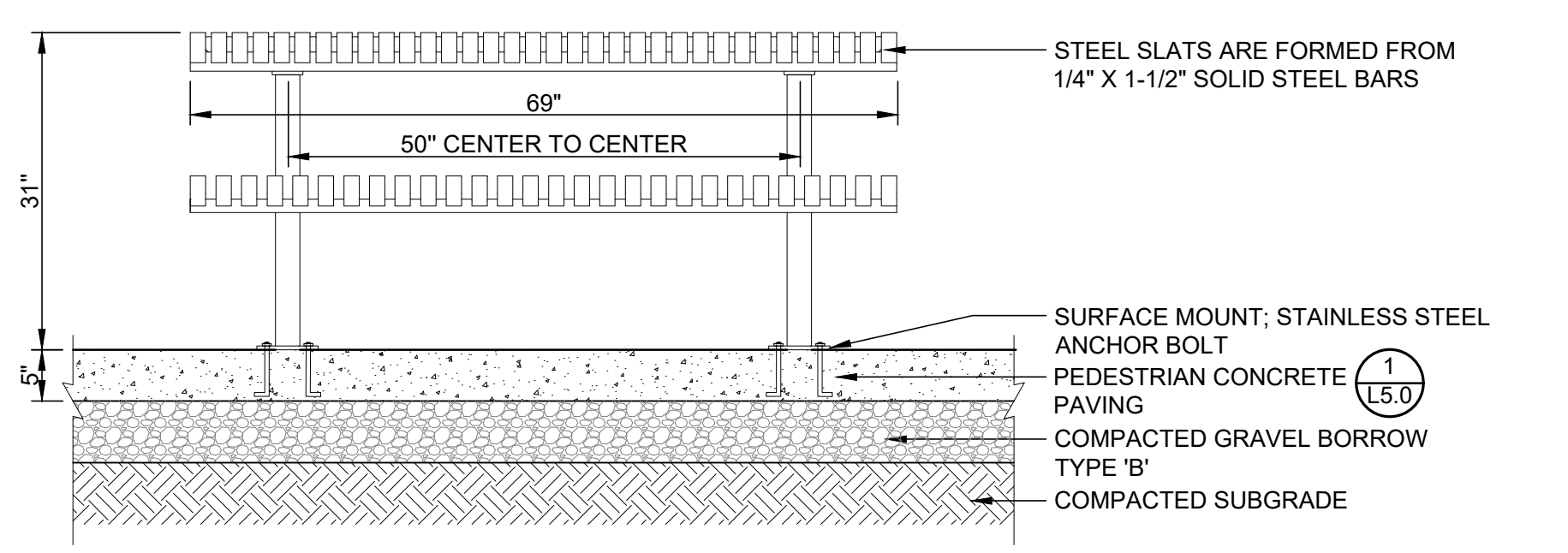
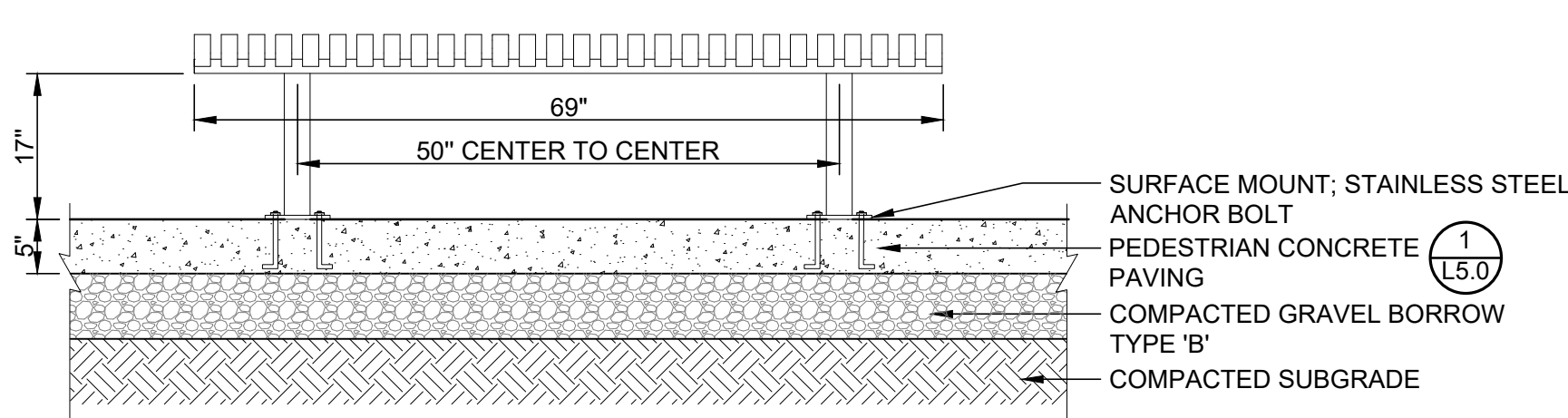
5 PICNIC TABLE WITH SEATS  
SCALE: 3/4"=1'-0"



6 PICNIC TABLE WITH SEATS  
SCALE: 3/4"=1'-0"



7 ACCESSIBLE PICNIC TABLE WITH SEATS  
SCALE: 3/4"=1'-0"



TWIN CITIES  
RAIL TRAIL

WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA

KEY PLAN:

ISSUE:		
NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

LANDSCAPE DETAILS  
PART 3 OF 5

DESIGNED: JP

DRAWN: JP/CS CHECKED: AR

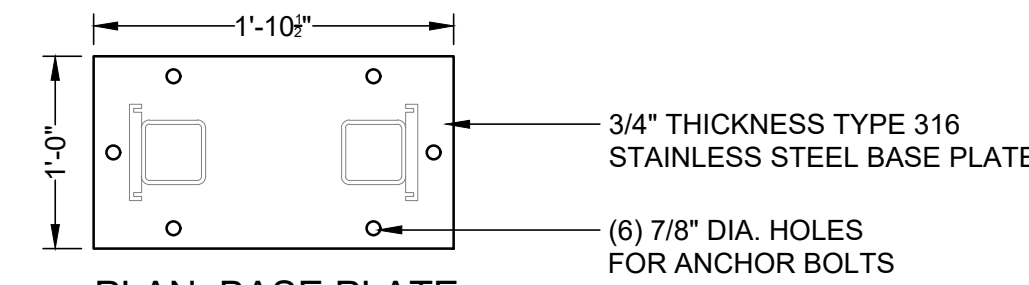
DATE: 12.11.2024

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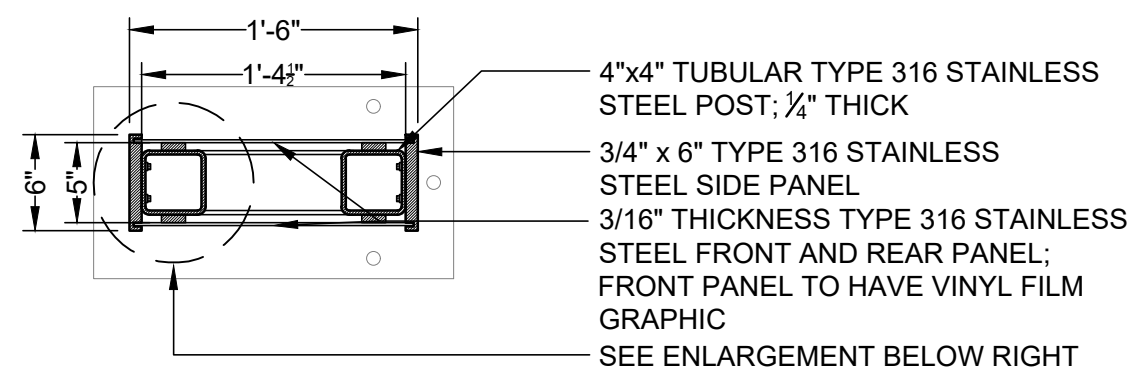
SUBMISSION: BID SET

DRAWING NO.

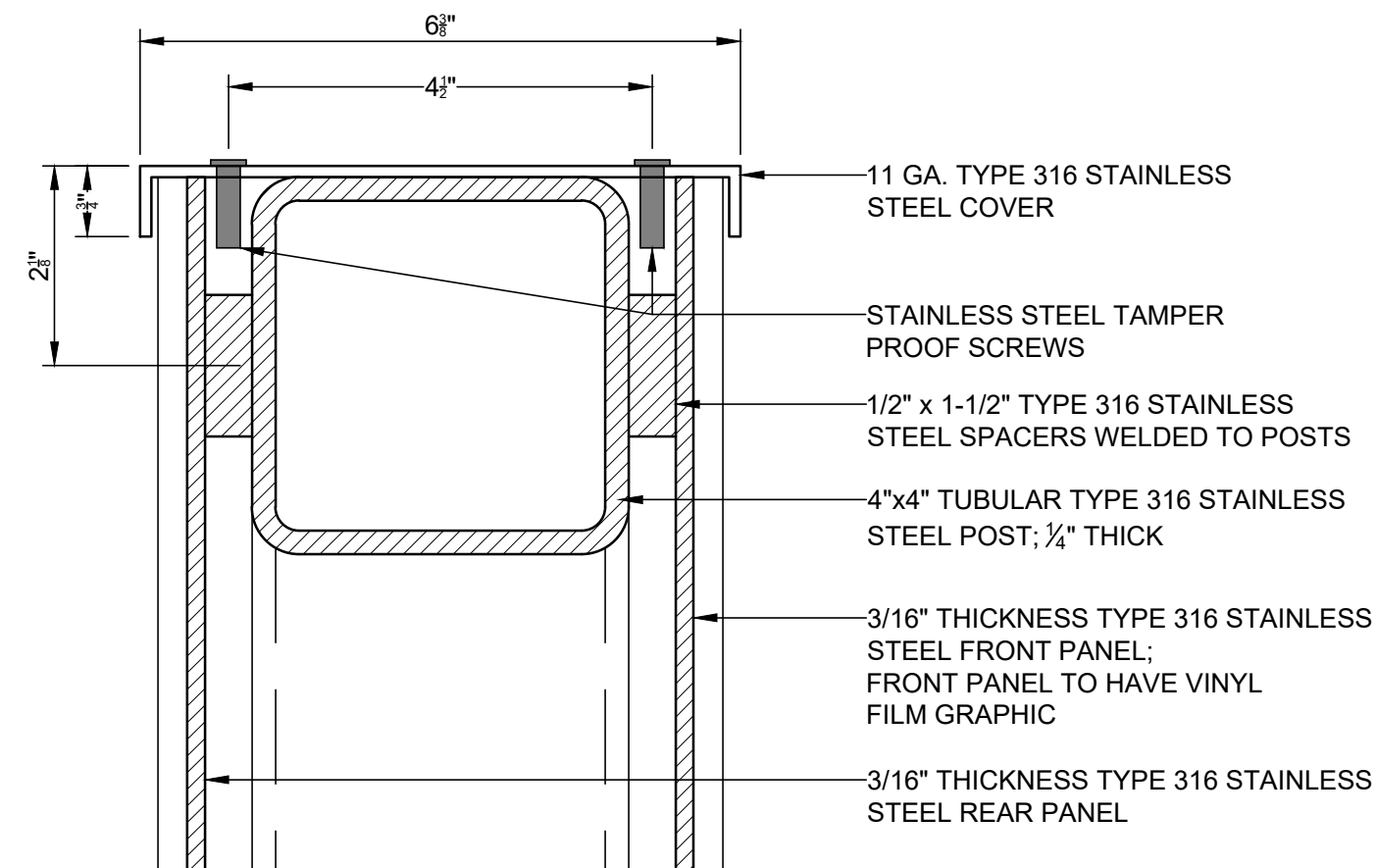
L5.2



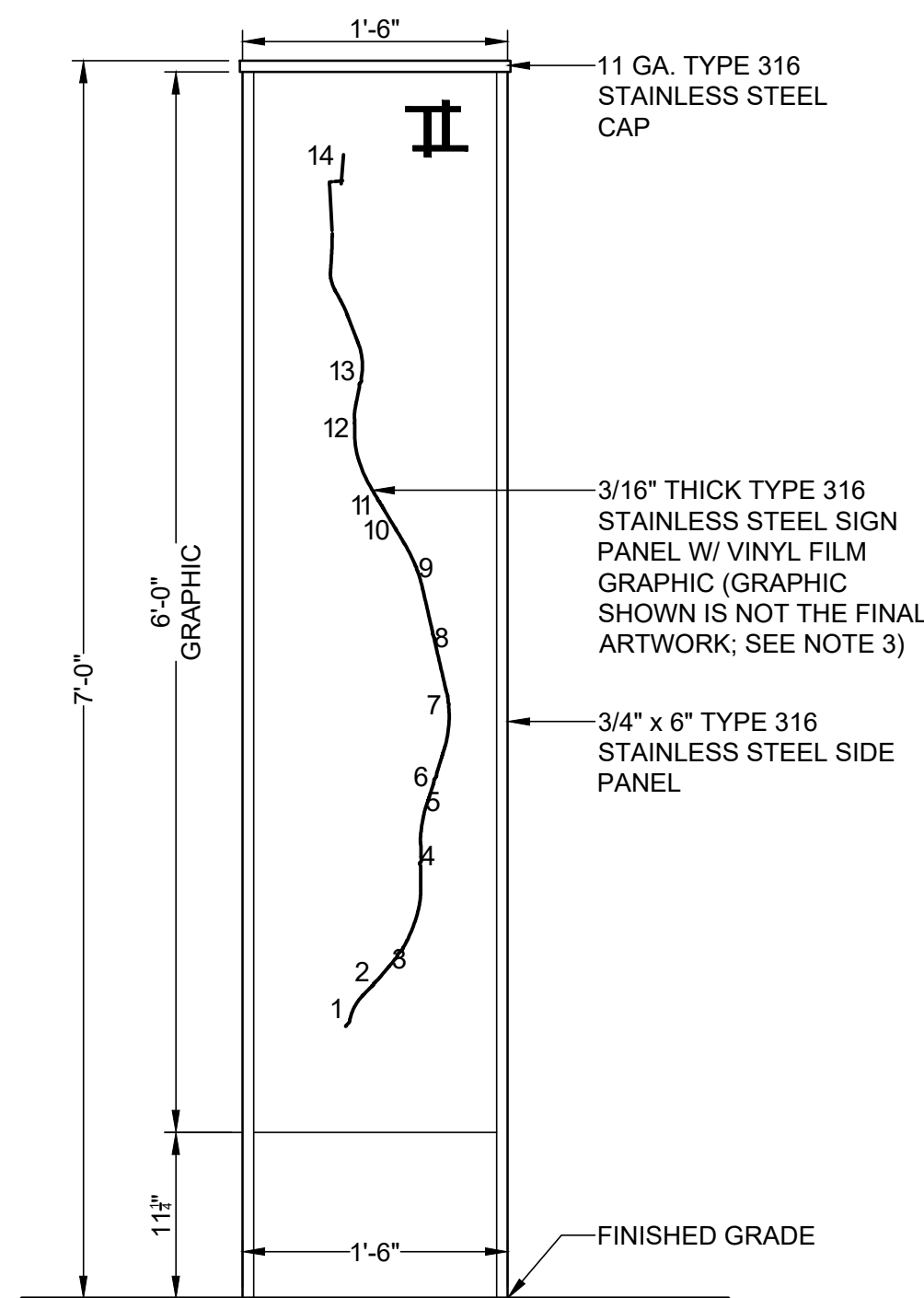
PLAN: BASE PLATE  
SCALE: 1" = 1'-0"



PLAN: SIGN STRUCTURE  
SCALE: 1" = 1'-0"

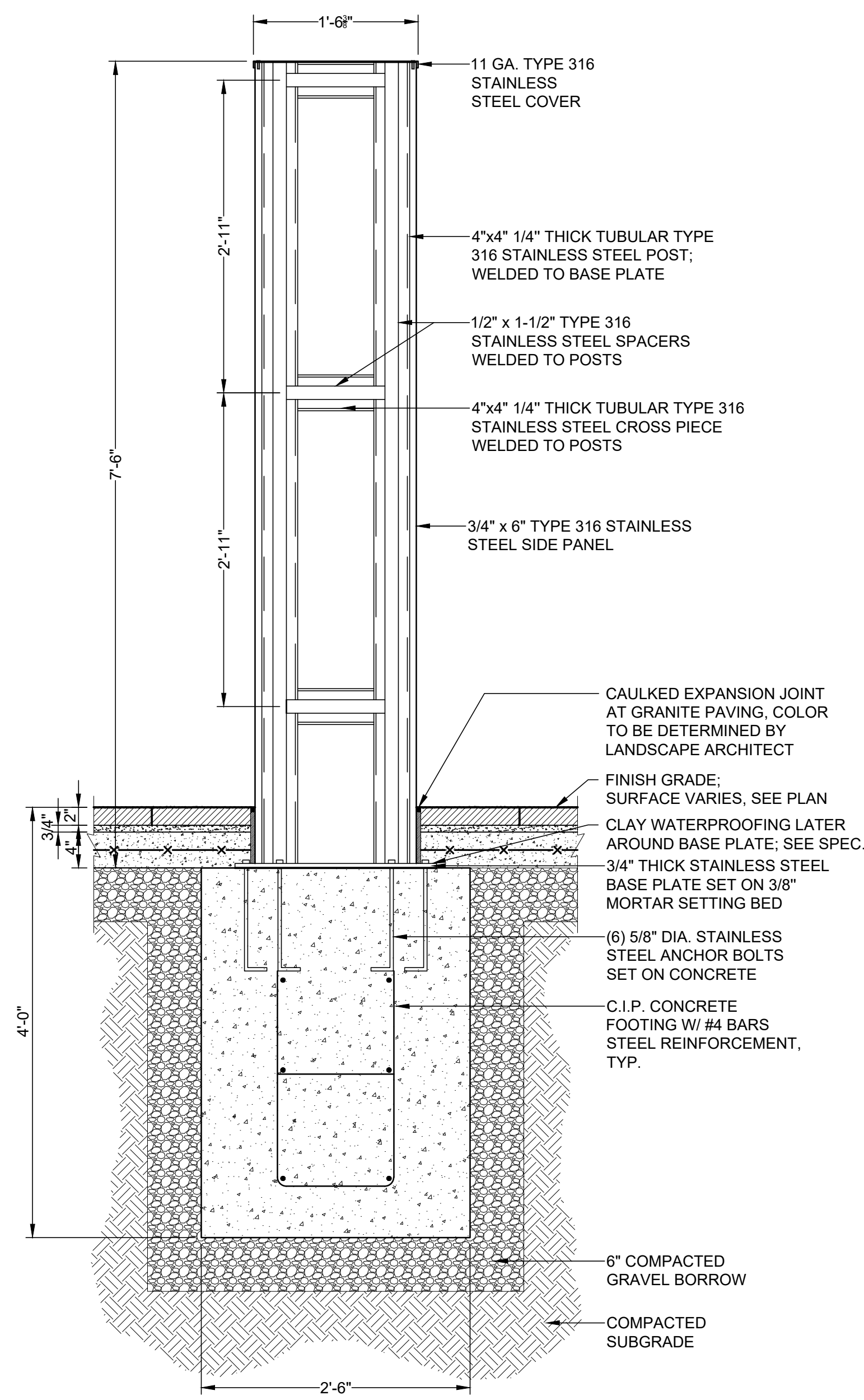


SECTION ENLARGEMENT  
SCALE: 6" = 1'-0"

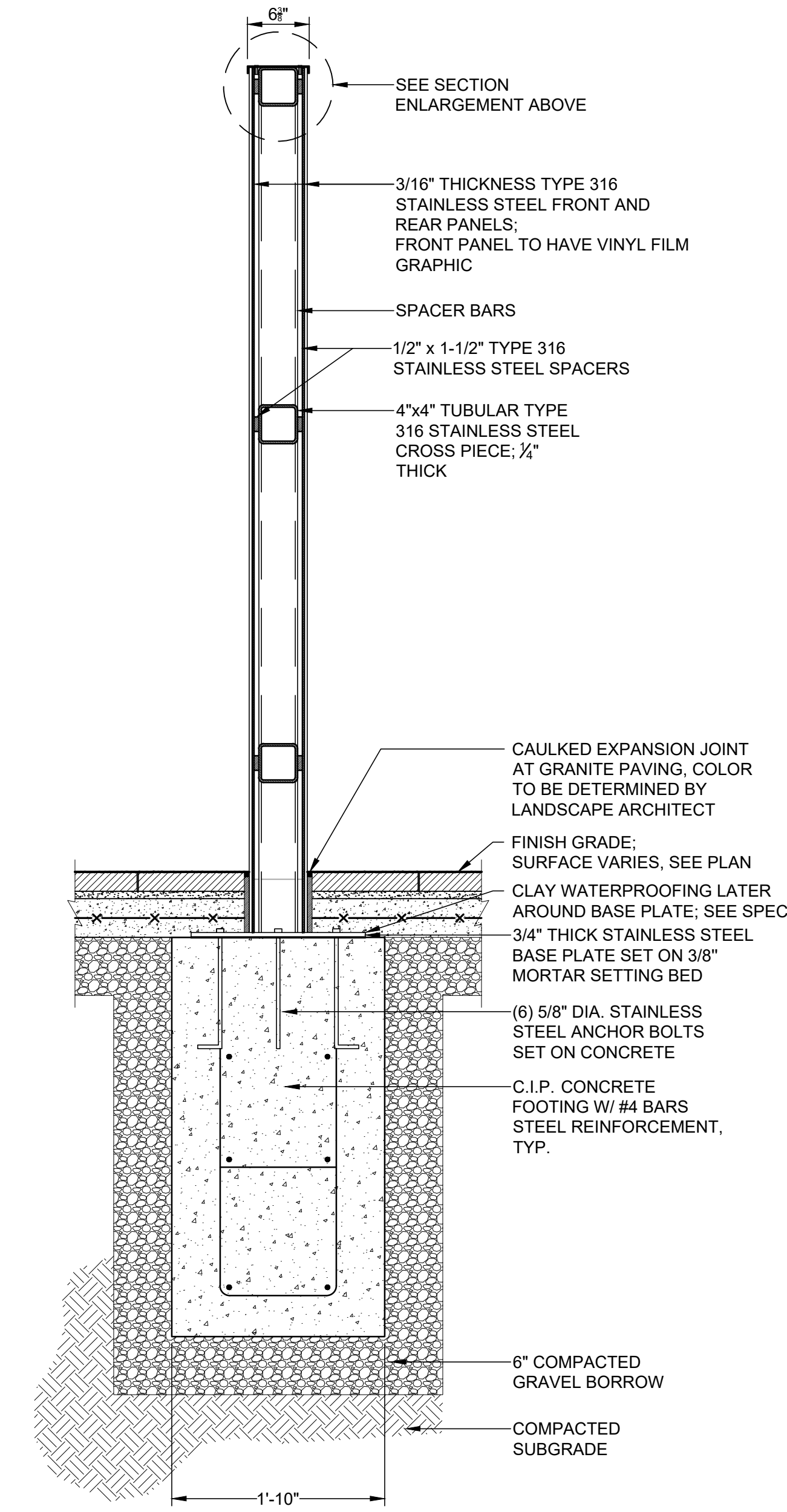


FRONT ELEVATION  
SCALE: 1" = 1'-0"

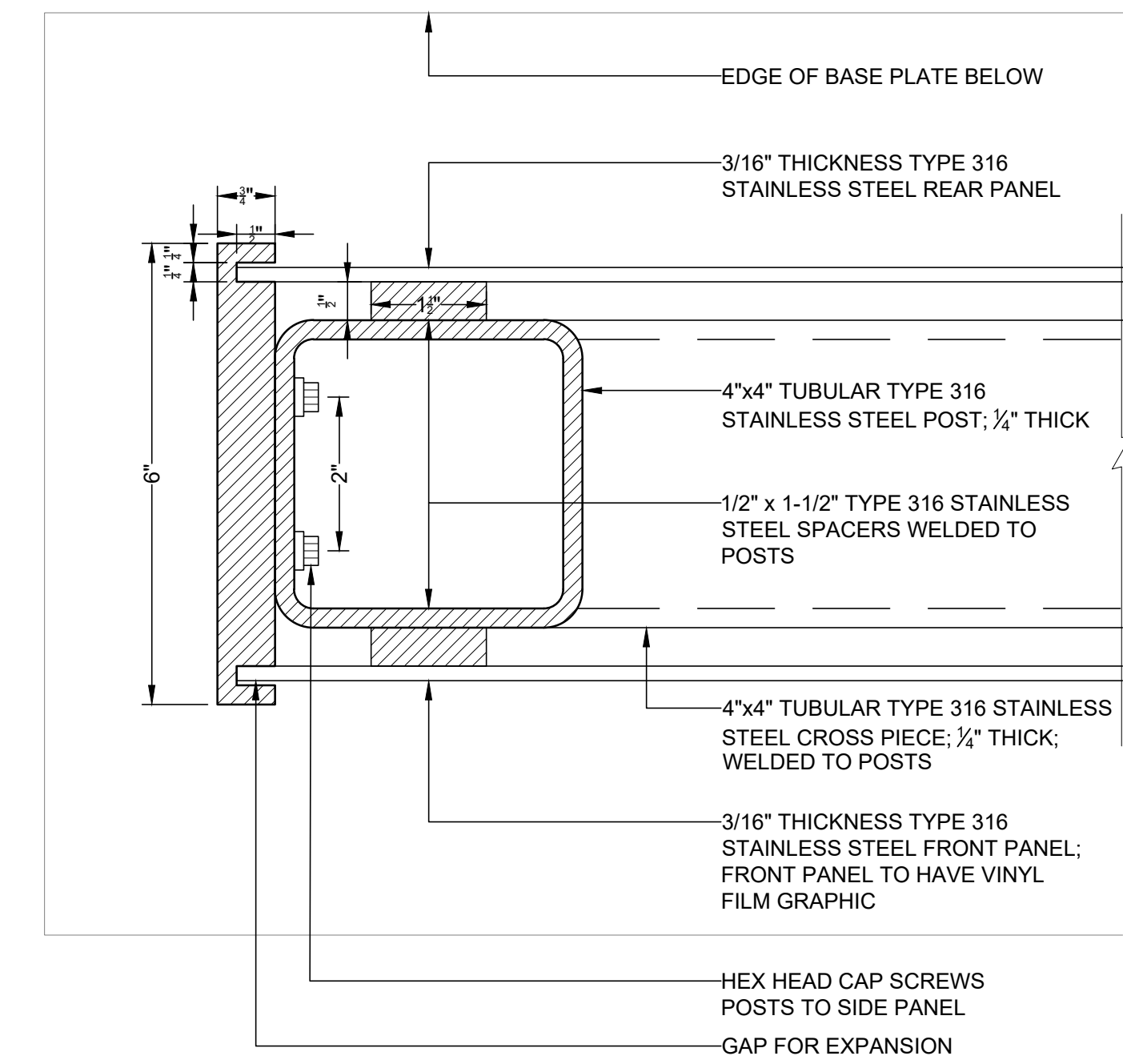
- NOTES:
1. ALL ATTACHMENT HARDWARE TO BE TYPE 316 STAINLESS STEEL.
  2. SEE SPECIFICATIONS FOR METAL FINISHES.
  3. TRAIL SIGN GRAPHICS TO BE PROVIDED BY OWNER AND LANDSCAPE ARCHITECT. DIGITAL GRAPHIC FILES TO BE PROVIDED FOR SIGN MANUFACTURER'S USE.
  4. STEEL REINFORCEMENT BY OTHERS.



SECTION: FRONT/BACK  
SCALE: 1" = 1'-0"



SECTION: SIDE  
SCALE: 1" = 1'-0"



PLAN ENLARGEMENT: TOP  
SCALE: 6" = 1'-0"



**TWIN CITIES  
RAIL TRAIL**

**WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA**

KEY PLAN:

ISSUE:		
NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

**LANDSCAPE DETAILS  
PART 4 OF 5**

DESIGNED: JP

DRAWN: JP/CS CHECKED: AR

DATE: 12.11.2024

SCALE:

SUBMISSION: BID SET

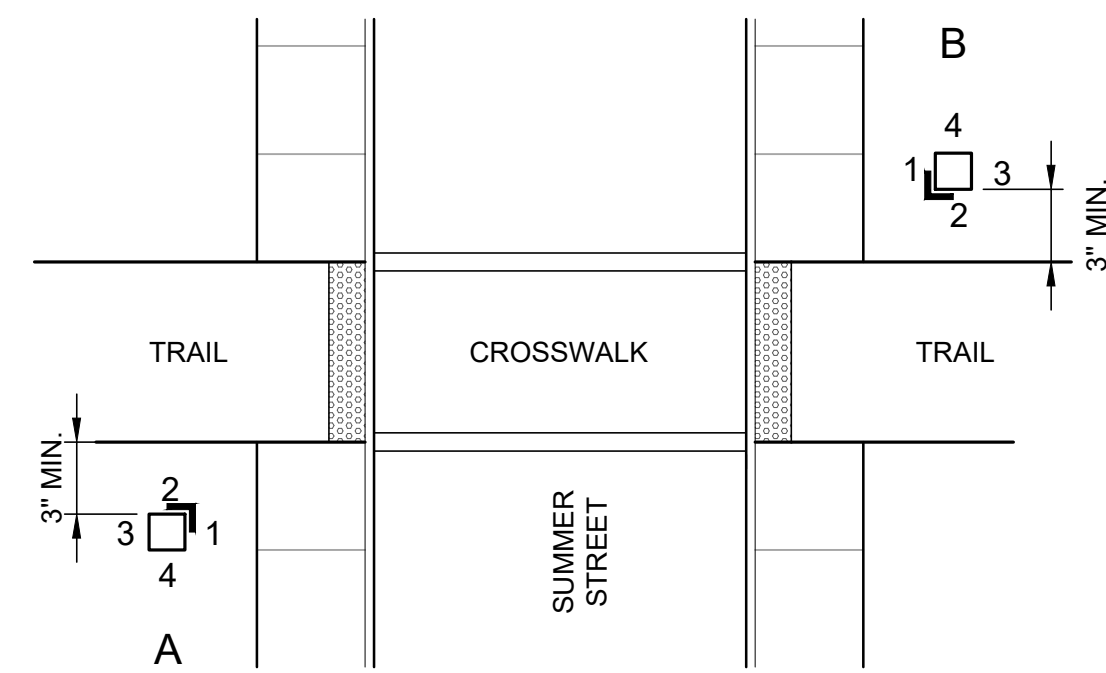
DRAWING NO.

**L5.3**

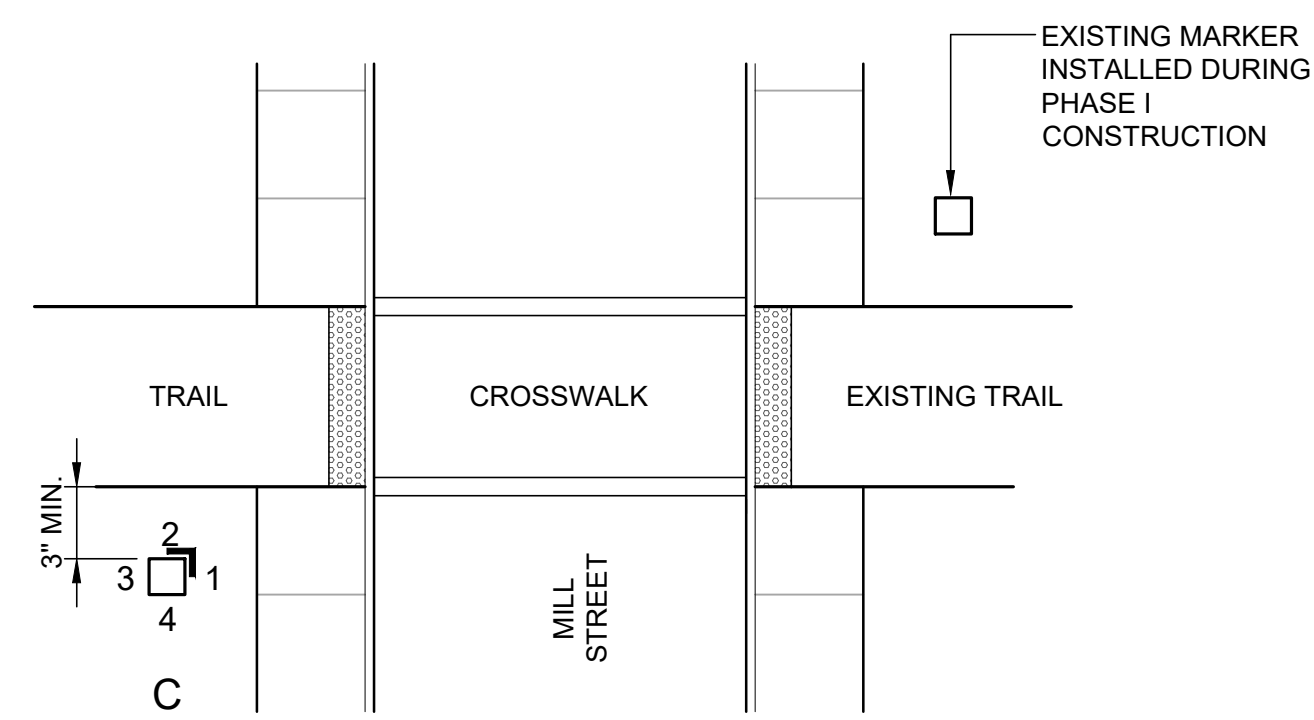
LT = LEFT SIDE OF TRAIL  
RT = RIGHT SIDE OF TRAIL

LOCATION/STREET NAME	STEEL PANEL ORIENTATION	TEXT CONTENT
A SUMMER STREET (SOUTH SIDE) STA 208+89.75 (RT)	SIDE 1 & 2 3 2 4 1	SUMMER STREET
B SUMMER STREET (NORTH SIDE) STA 209+49.35 (LT)	SIDE 1 & 2 1 4 2 3	SUMMER STREET
C MILL STREET (SOUTH SIDE) STA 218+36.17 (RT)	SIDE 1 & 2 3 2 4 1	MILL STREET

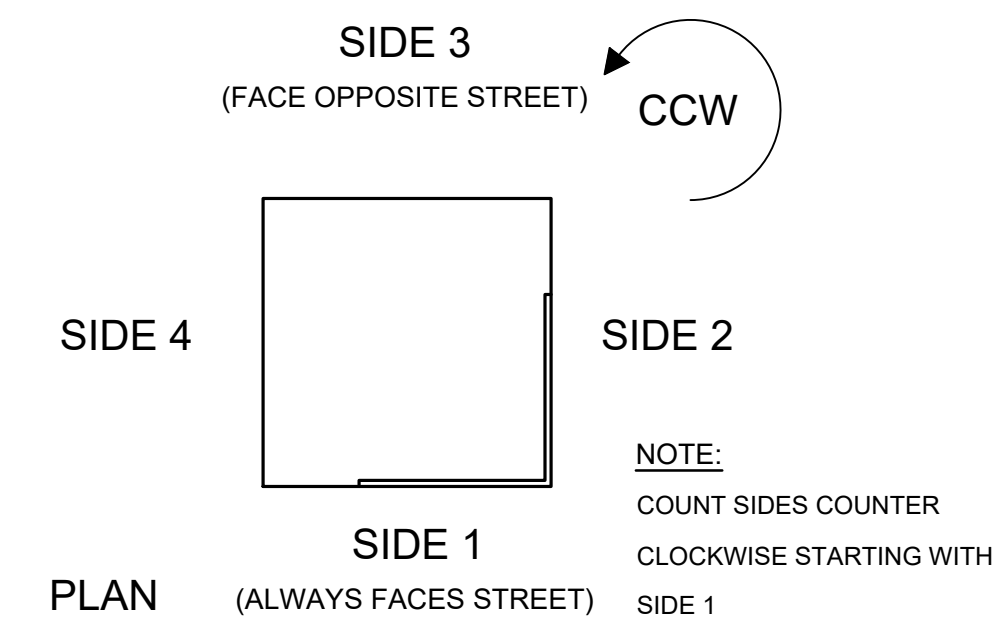
NOTE: TEXT IS ON SIDES 1 AND 2.



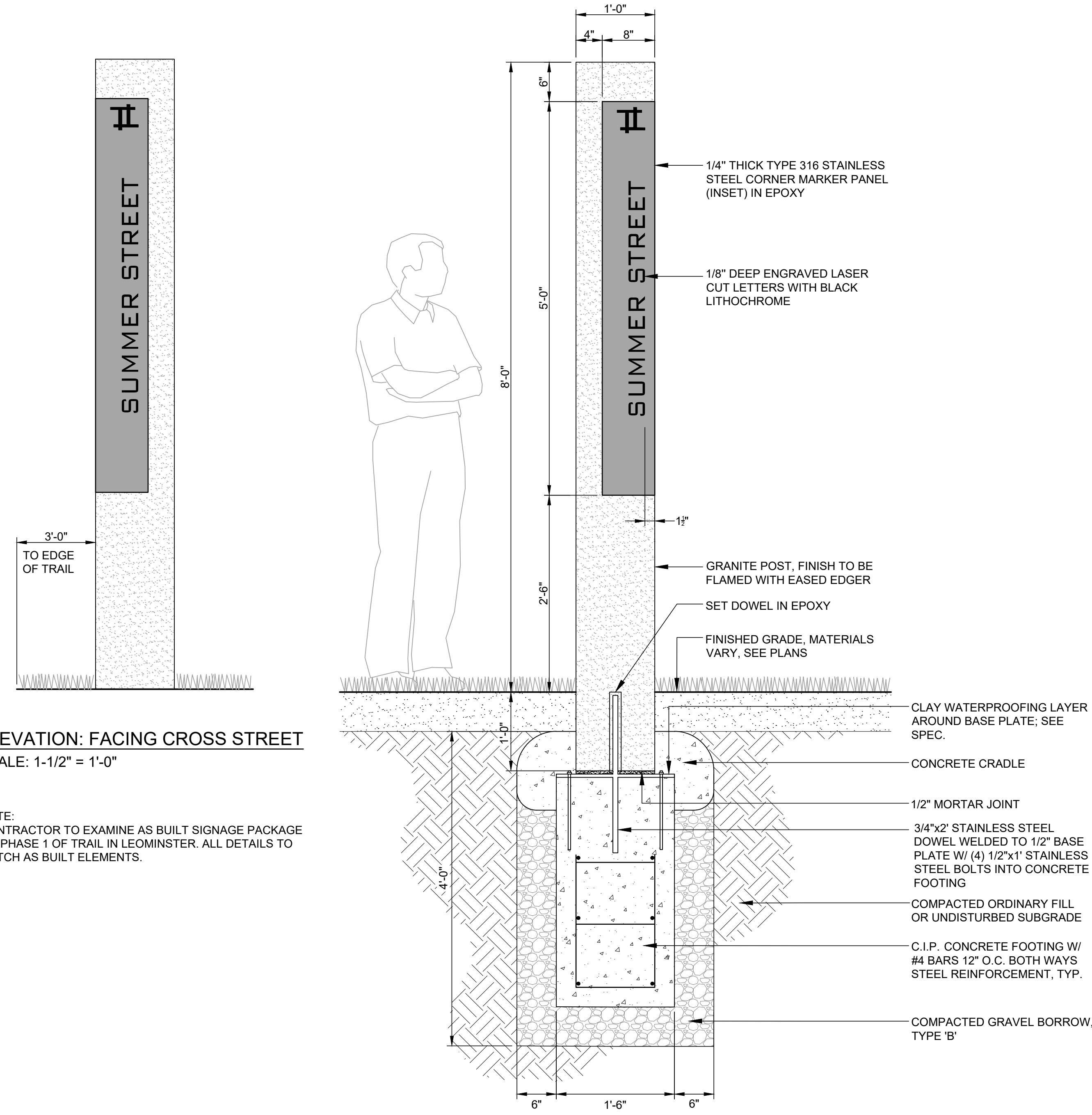
CONTEXT PLAN - SUMMER STREET



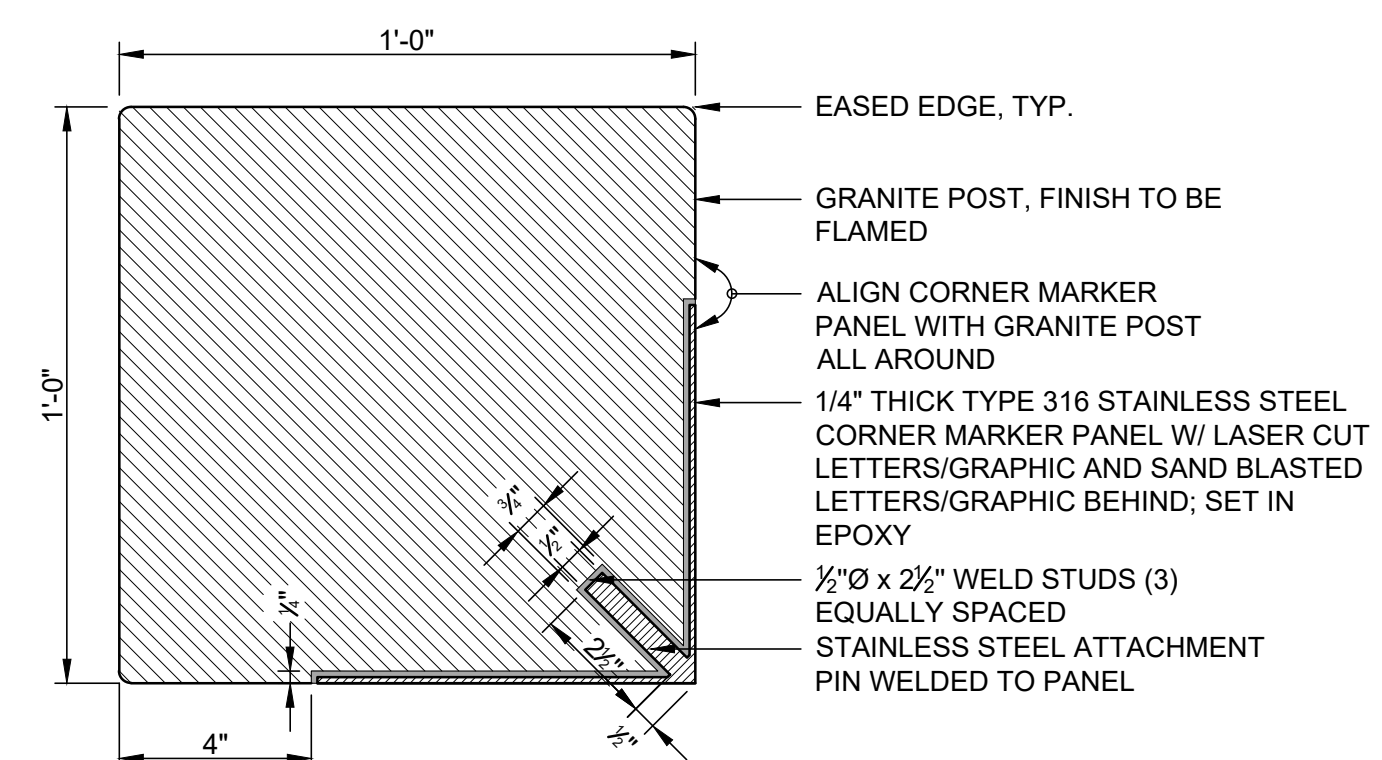
CONTEXT PLAN - MILL STREET



NOTE:  
COUNT SIDES COUNTER  
CLOCKWISE STARTING WITH  
SIDE 1



SECTION: FACING TRAIL  
SCALE: 1" = 1'-0"



SECTION: TOP DOWN  
SCALE: 3" = 1'-0"

ELEVATION: FACING CROSS STREET  
SCALE: 1-1/2" = 1'-0"

NOTE:  
CONTRACTOR TO EXAMINE AS BUILT SIGNAGE PACKAGE  
ON PHASE 1 OF TRAIL IN LEOMINSTER. ALL DETAILS TO  
MATCH AS BUILT ELEMENTS.

**1 GRANITE MARKER**  
SCALE: 1" = 1'-0"

**TWIN CITIES  
RAIL TRAIL**

**WATER STREET TO  
MAIN STREET  
LEOMINSTER, MA**

KEY PLAN:

ISSUE:		
NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

**LANDSCAPE DETAILS  
PART 5 OF 5**

DESIGNED: JP

DRAWN: JP/CS CHECKED: AR

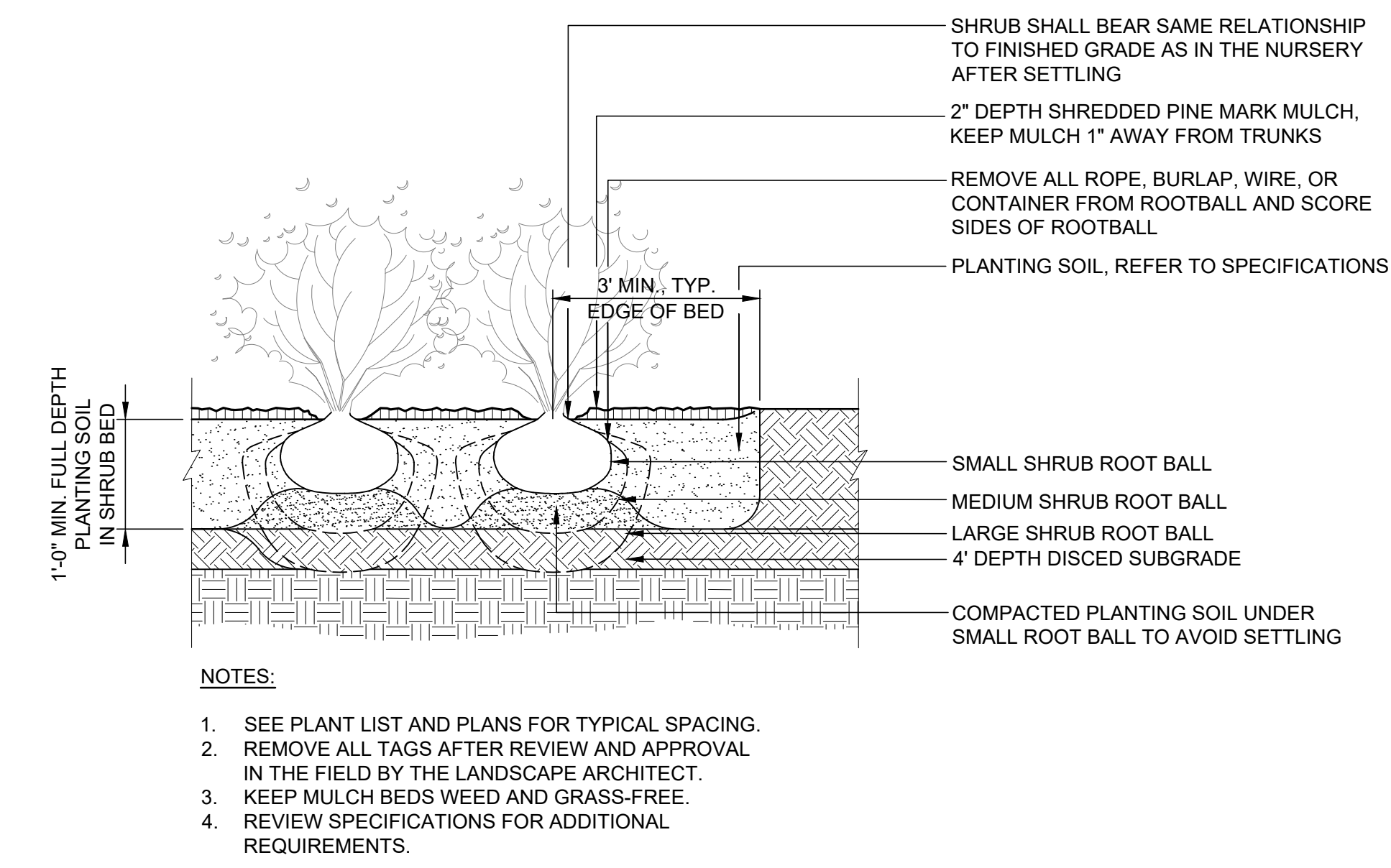
DATE: 12.11.2024

SCALE:

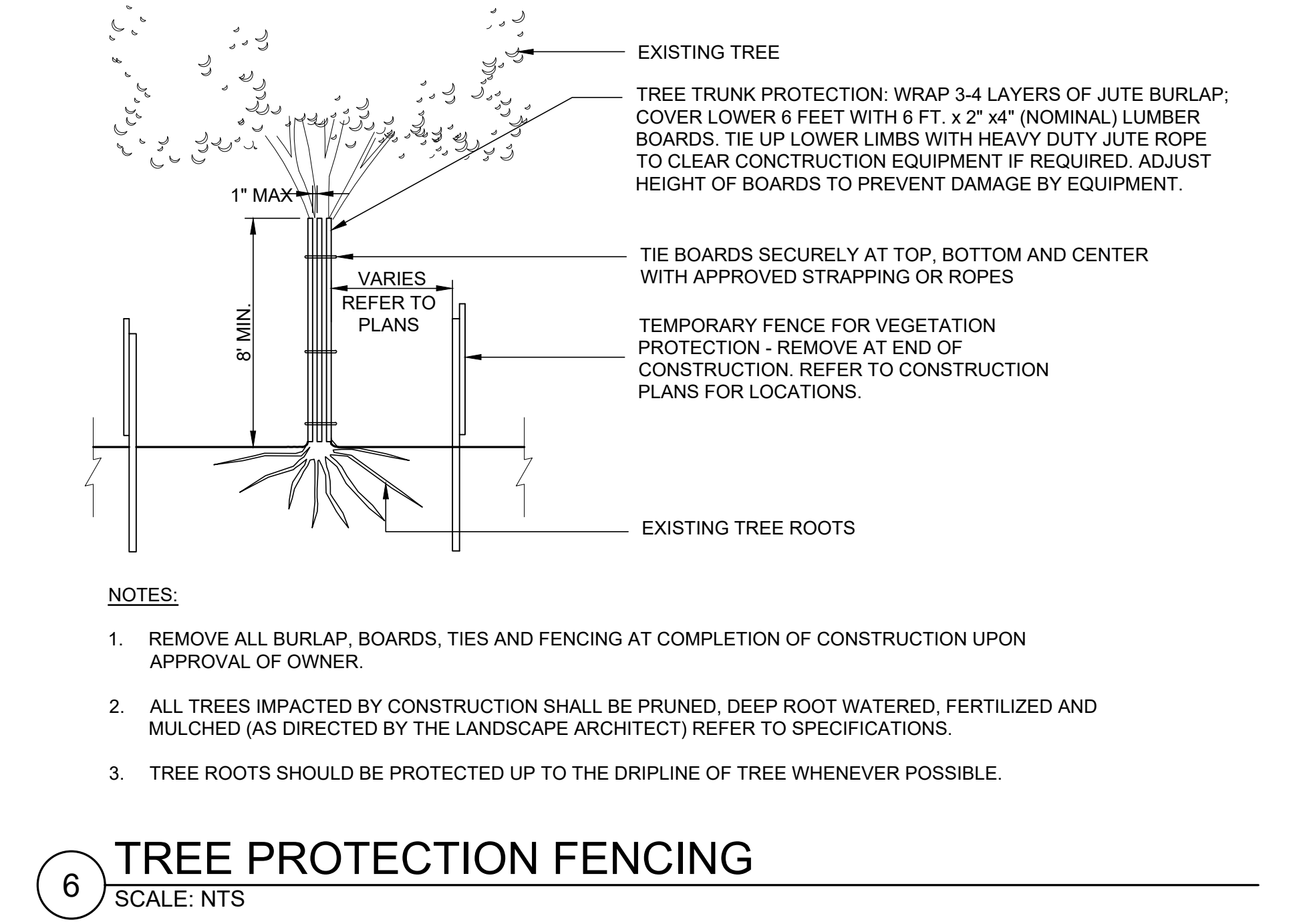
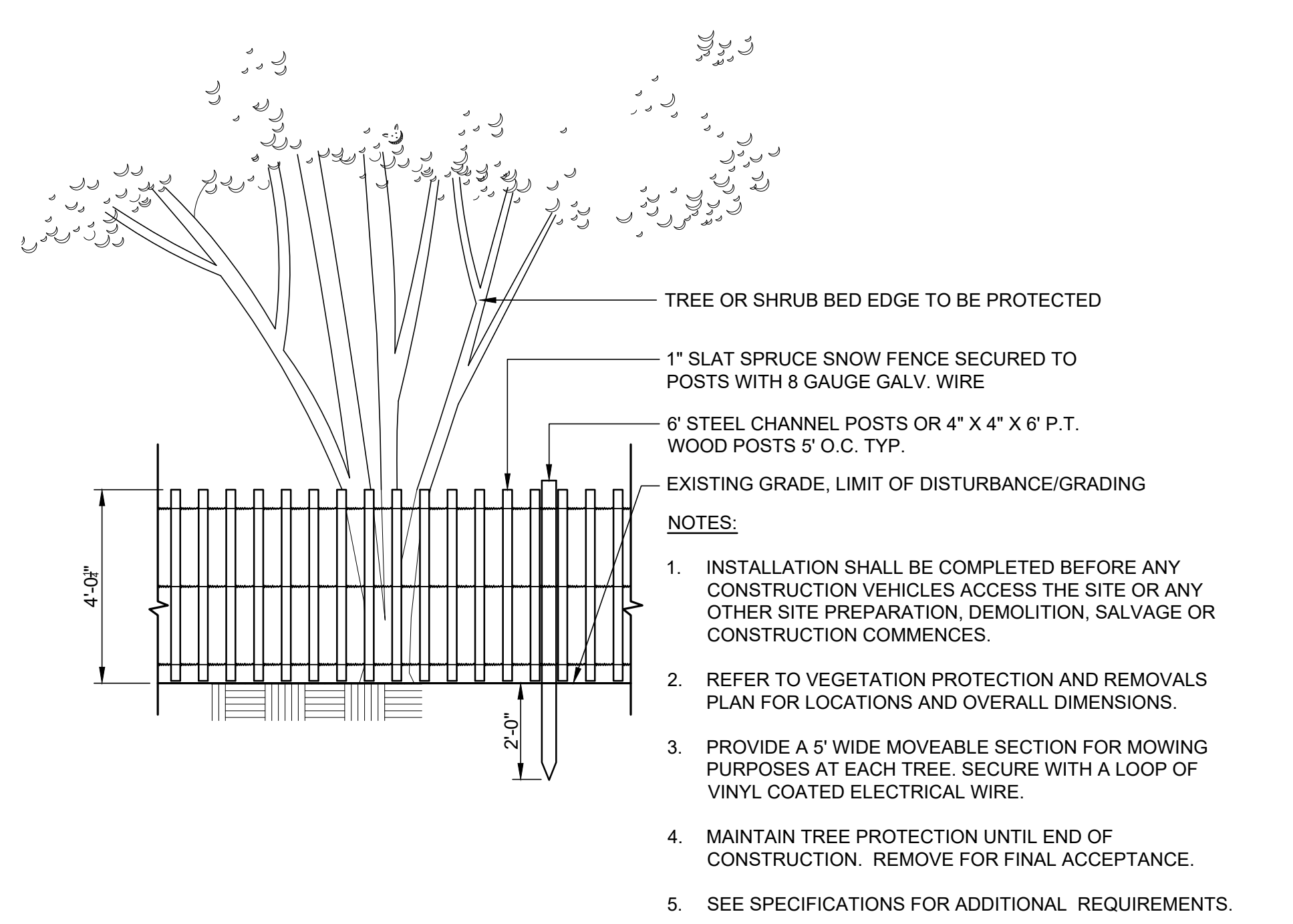
SUBMISSION: BID SET

DRAWING NO.

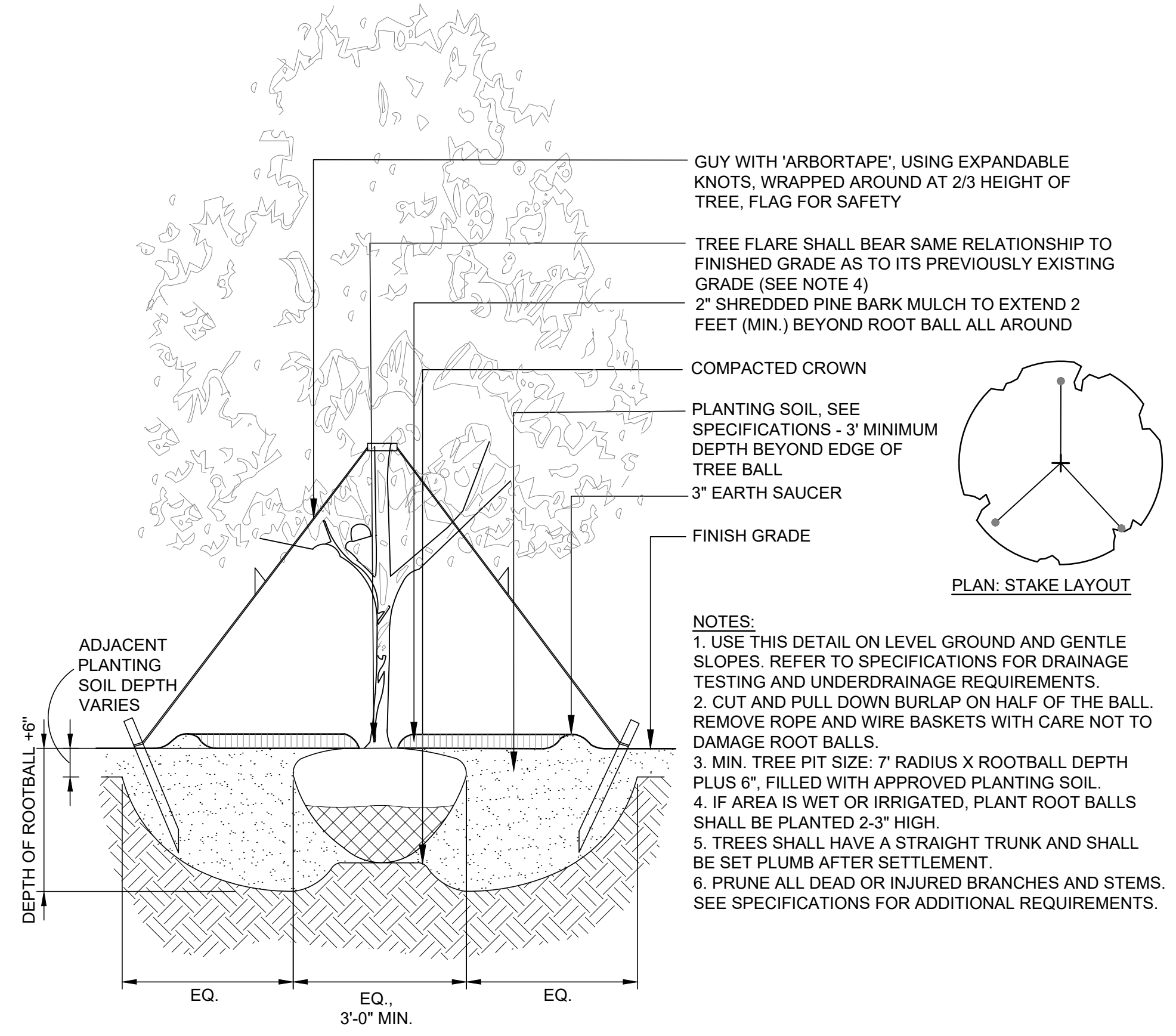
**L5.4**



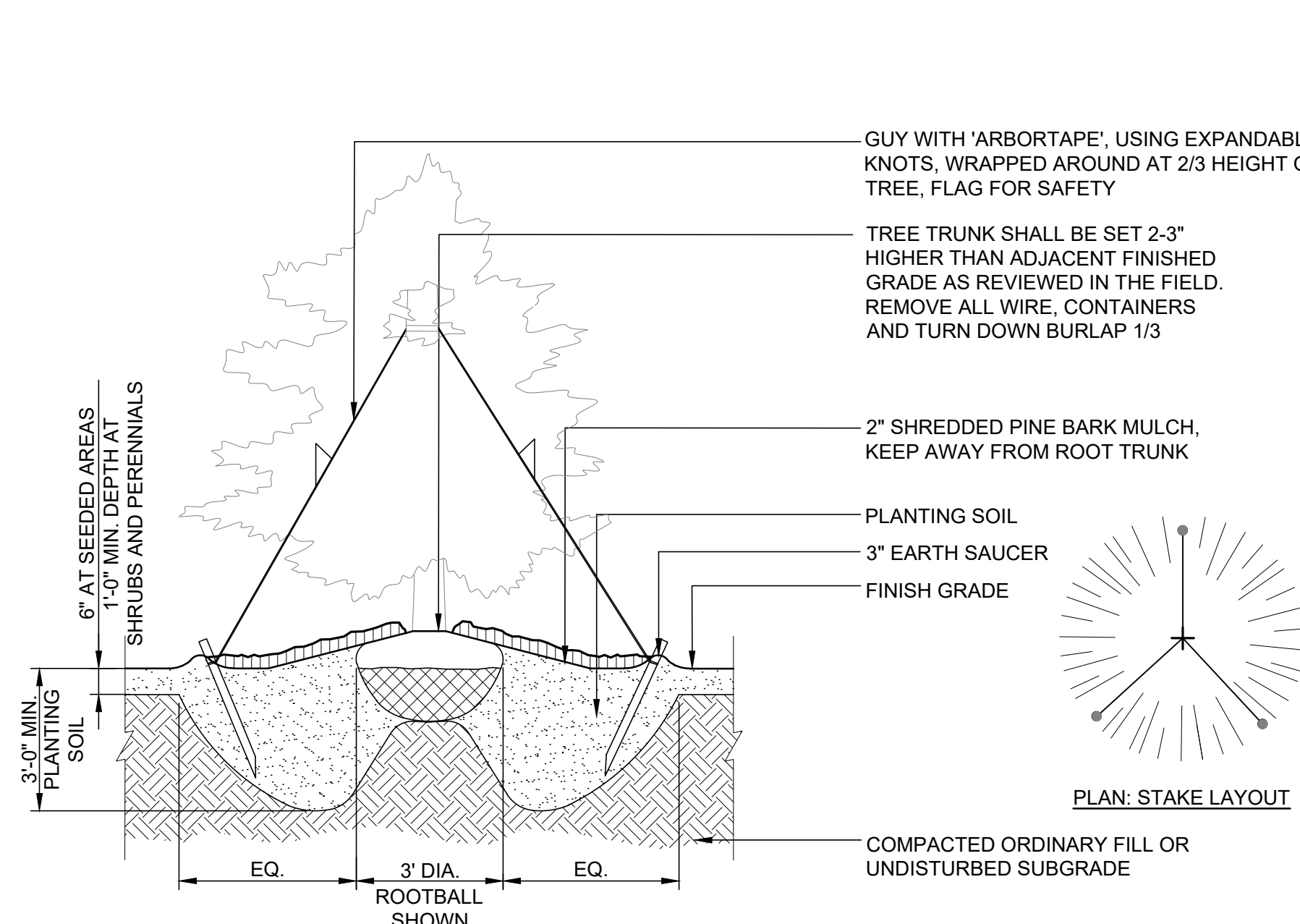
**3 SHRUB PLANTING DETAIL**  
SCALE: 1/2"=1'-0"



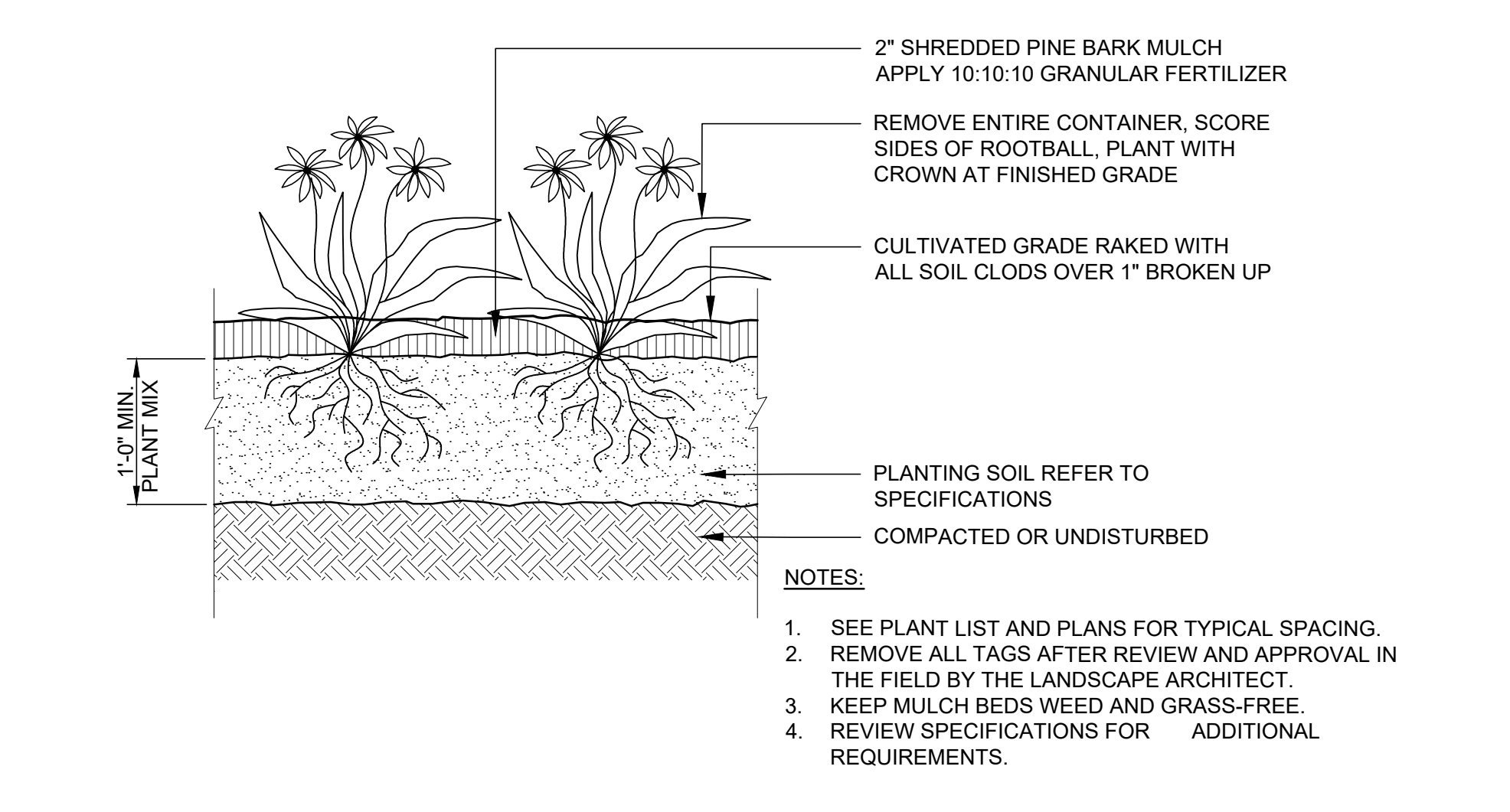
**6 TREE PROTECTION FENCING**  
SCALE: NTS



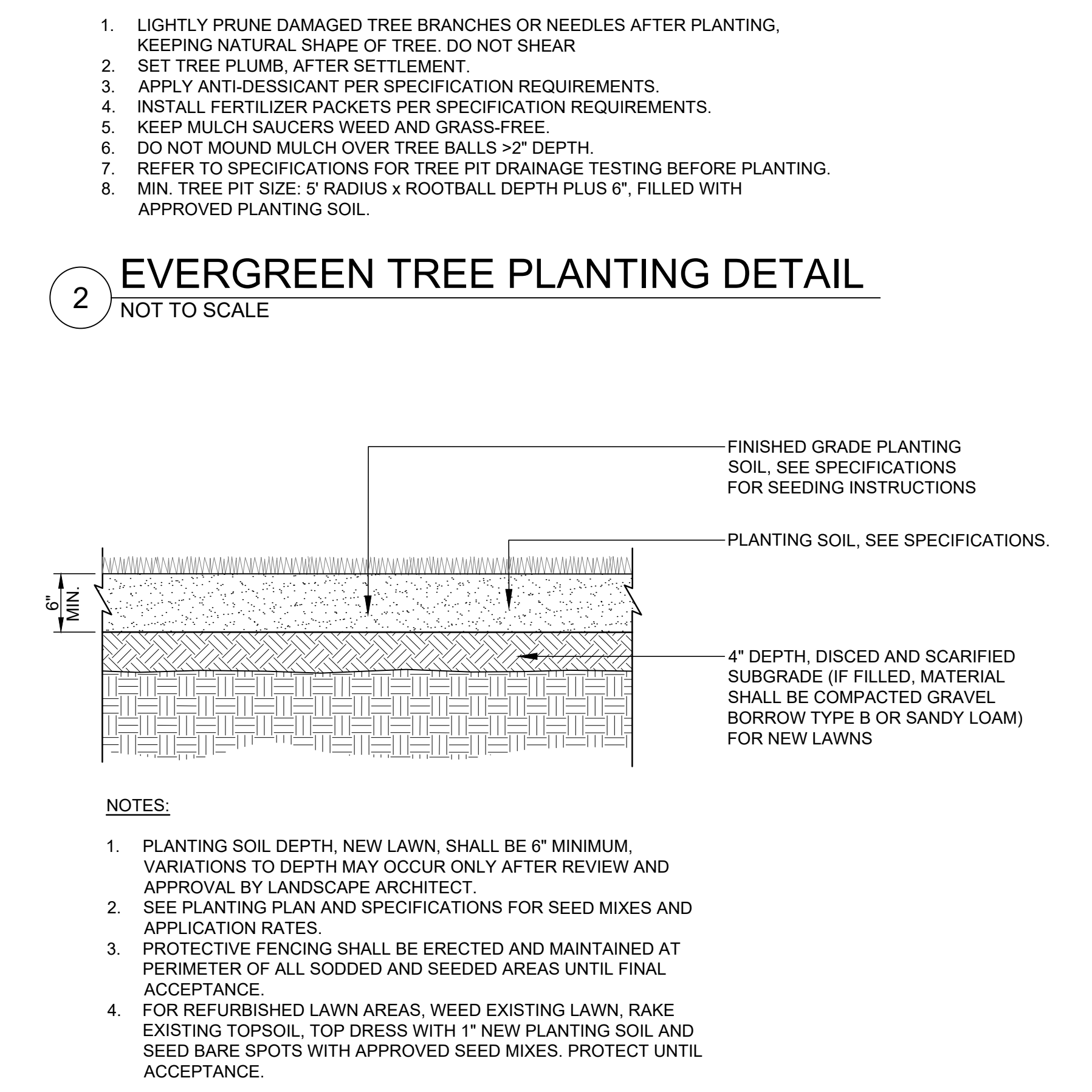
**1 DECIDUOUS TREE PLANTING DETAIL**  
NOT TO SCALE



**2 EVERGREEN TREE PLANTING DETAIL**  
NOT TO SCALE



**4 GROUNDCOVER, PERENNIAL, ORNAMENTAL GRASSES, PLANTING DETAIL**  
SCALE: 1"=1'-0"



**5 SEEDED LAWN PLANTING DETAIL**  
SCALE: 1"=1'-0"

SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
<b>TREES:</b>						
AC	5	Amelanchier canadensis (Clump)	Shadbush	B&B	6'-8' HT. (3" CAL.)	MATCHED SPECIMENS, CLUMP (3 TRUNKS MIN.)
CV	3	Crataegus viridis 'Winter King'	Winter King Hawthorn	B&B	2 1/2" - 3" CAL.	MATCHED SPECIMENS
JV	3	Juniperus virginiana	Eastern Red Cedar	B&B	5'-6' HT.	NOT SHEARED, FULL TO BASE
LS	3	Liquidambar styraciflua 'Rotundiloba'	Roundleaf Sweetgum	B&B	3 1/2" - 4" CAL.	MATCHED SPECIMENS, 7' MIN. BRANCH HEIGHT
NS	1	Nyssa sylvatica	Black Tupelo	B&B	3 1/2" - 4" CAL.	SPECIMEN, 7' MIN. BRANCH HEIGHT
<b>SHRUBS:</b>						
CS	32	Cornus sericea	Redosier Dogwood	CONT.	7 GAL.	MATCHED
IG	18	Ilex glabra 'Shamrock'	Shamrock Inkberry	CONT.	7 GAL.	MATCHED
VT	8	Viburnum trilobum	Highbush Cranberry	CONT.	7 GAL.	MATCHED
<b>PERENNIALS, GRASSES AND GROUND COVER:</b>						
HJS	85	Hemerocallis 'Joan Senior'	Joan Senior Daylily	CONT.	1 Gal.	WELL ROOTED
HRR	130	Hemerocallis 'Rosy Returns'	Rosy Returns Daylily	CONT.	1 Gal.	WELL ROOTED
RFG	71	Rudbeckia fulgida 'Goldsturm'	Black Eyed Susan	CONT.	1 Gal.	WELL ROOTED
SNA	90	Symphyotrichum novae-angliae	New England Aster	CONT.	1 Gal.	WELL ROOTED