

2.1 | PROJECT SITE PLAN

SCALE: 1" = 200'-0"

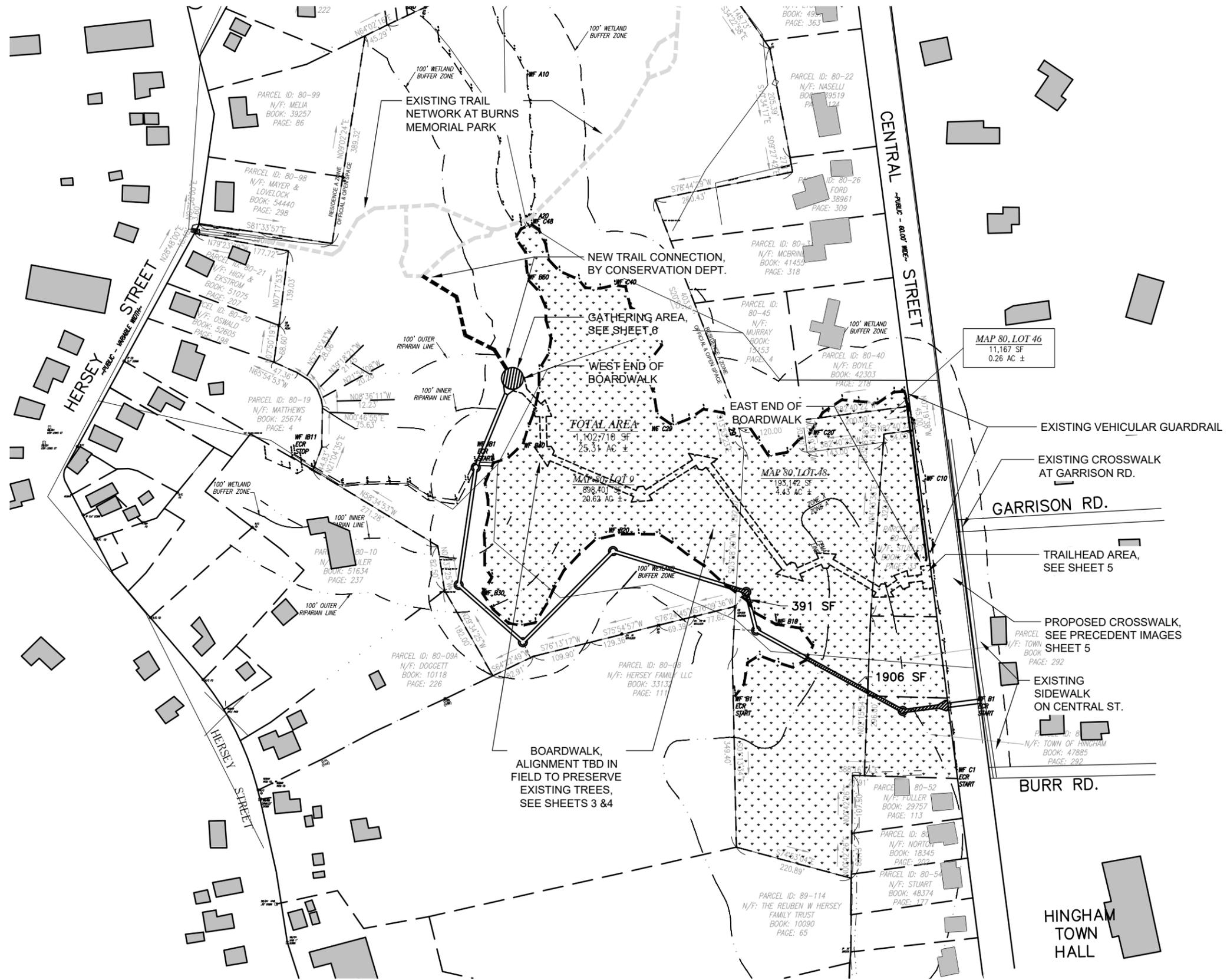
**ALTERNATE ROUTE #1 [PREFERRED]**

less than 5,000 SF of estimated "fill"

[4,982 SF / 1,210 LF]

JUNE 9, 2024

**WORKSHEET for Conservation Commission Review**



MAP 80 LOT 46  
11,167 SF  
0.26 AC ±

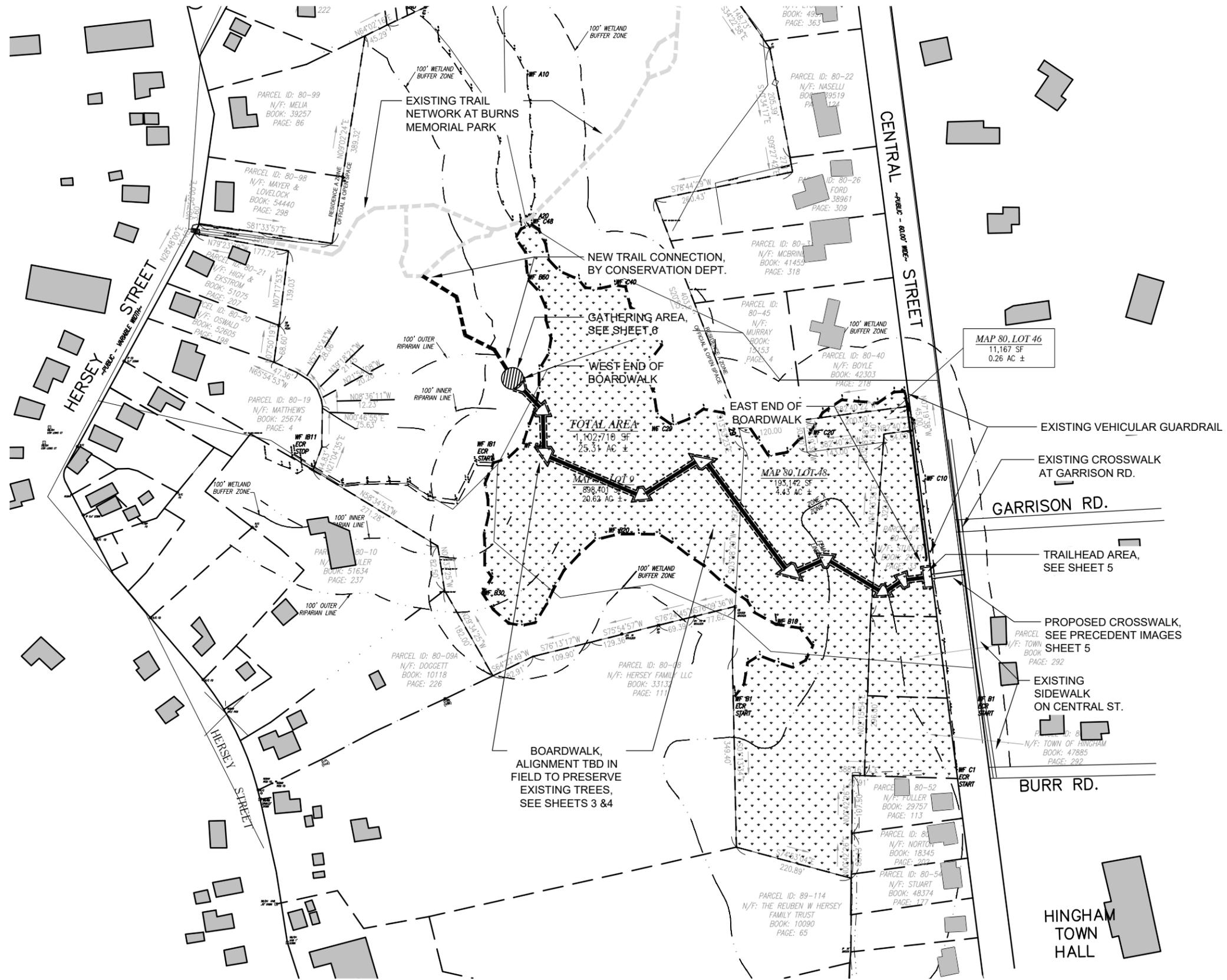
### ALTERNATE ROUTE #2

less than 2,500 SF of estimated "fill"

[2,297 SF / 1,525 LF]

JUNE 9, 2024

### WORKSHEET for Conservation Commission Review

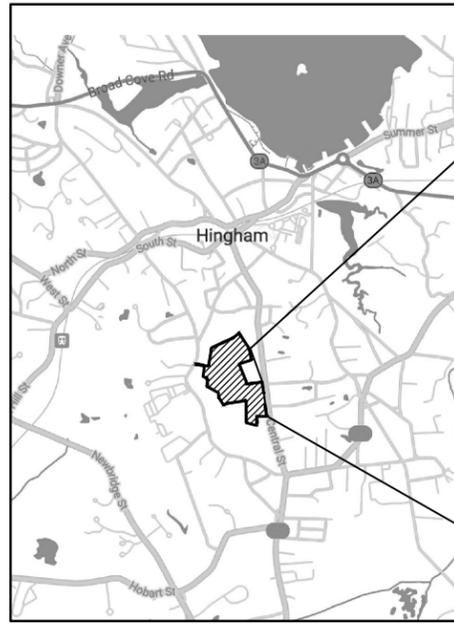


PREVIOUS ROUTE  
FEB 2024

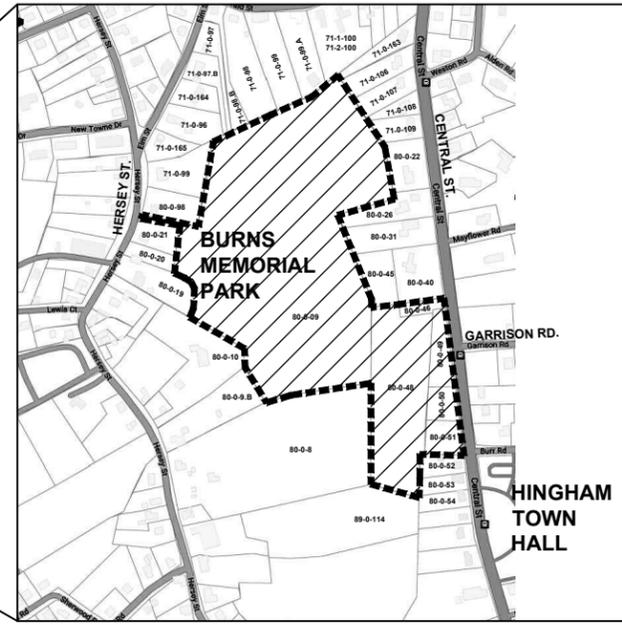
[8,425 SF / 1,050 LF]

JUNE 9, 2024

WORKSHEET  
for Conservation  
Commission  
Review



LOCATION PLAN ① NOT TO SCALE



CONTEXT PLAN ① NOT TO SCALE

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NOT FOR CONSTRUCTION



BOARDWALK CONCEPT

NOT TO SCALE

**TRANQUILITY GROVE**  
**AT BURNS MEMORIAL PARK:**  
**PATH, BOARDWALK, AND GATHERING AREA**

PROJECT:

**TRANQUILITY GROVE**  
AT BURNS MEMORIAL PARK

ADDRESS:  
CENTRAL ST. AT GARRISON RD.  
HINGHAM, MA 02043

CLIENT / OWNER:  
HINGHAM HISTORICAL COMMISSION

REVISION:  
REVISED TECHNICAL PLANS & DETAILS  
(rev. 1)

DATE:  
FEBRUARY 25, 2024

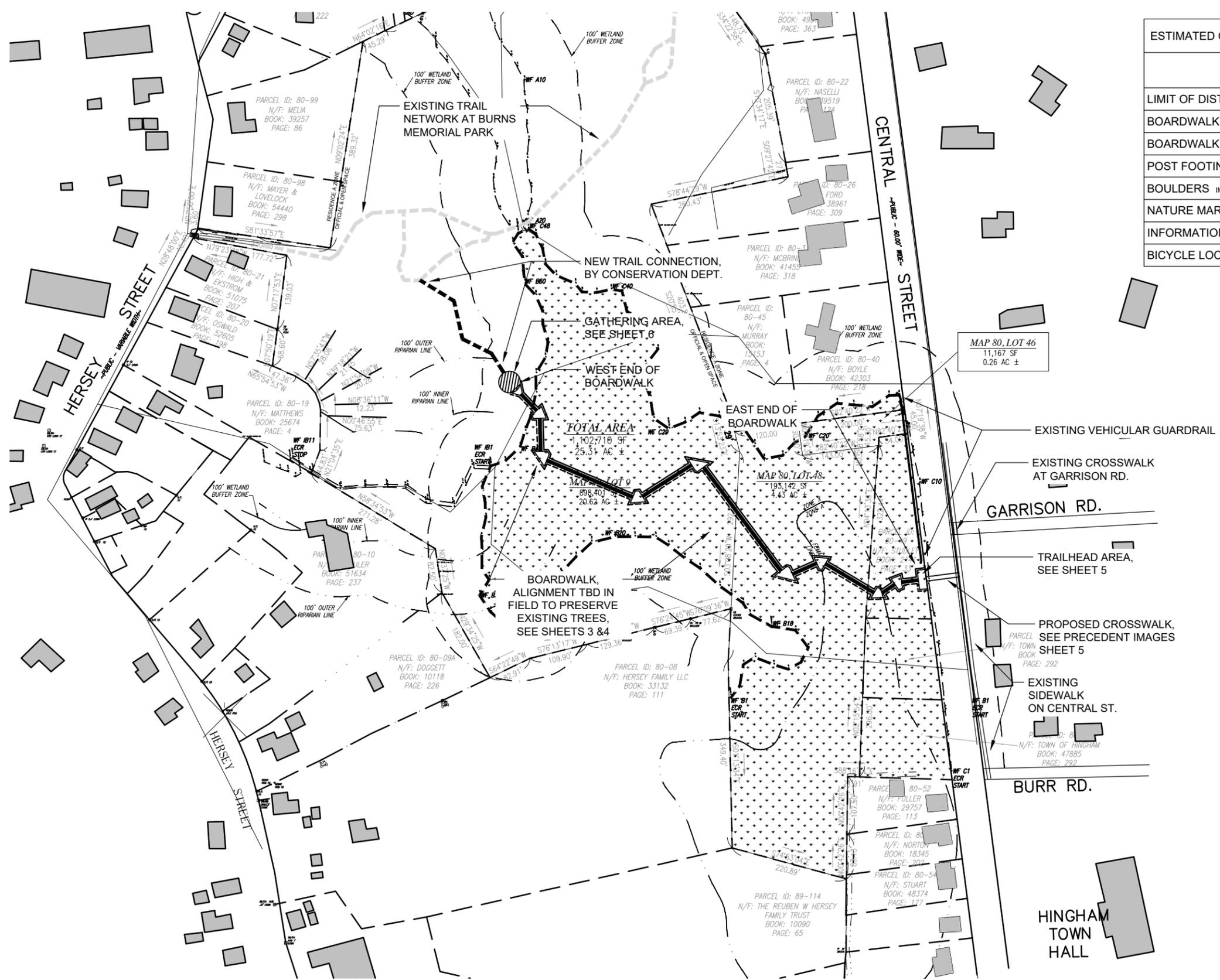
SHEET TITLE:

**COVER SHEET**

SCALE:  
N/A

ESTIMATED QUANTITIES		PROVIDED FOR DISCUSSION ONLY	
		IN WETLAND ZONE	TOTAL IN PROJECT
LIMIT OF DISTURBANCE	SQUARE FEET	25,000	40,000
BOARDWALK LENGTH	LINEAR FEET	1,000	1,050
BOARDWALK AREA	SQUARE FEET	8,425	8,900
POST FOOTINGS	QUANTITY COUNT	340	360
BOULDERS	IMPORTED TO SITE	+/- 30	90
NATURE MARKERS	QUANTITY COUNT	12	12
INFORMATIONAL WAYSIDES	QTY. CT.	2	4
BICYCLE LOCKING POINTS	QTY. COUNT	4	4

NOT FOR CONSTRUCTION



MAP 80, LOT 46  
11,167 SF  
0.26 AC ±

PROJECT:  
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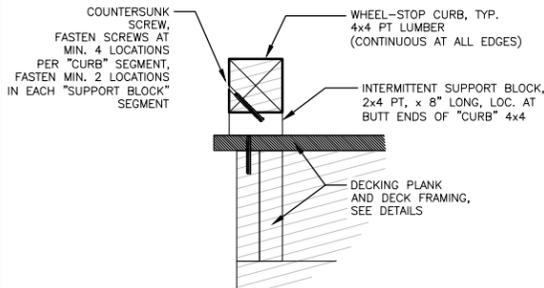
**SITE PLAN**

SCALE:  
N/A

- WAYSIDE NOTES:
- METAL COMPONENTS TO BE COLOR GALVANIZED.
  - FOOTING TO BE CONCRETE SONOTUBE TYPE.
  - DESIGN AND COORDINATION OF WAYSIDE GRAPHIC TO BE BY HINGHAM CONSERVATION COMMISSION W/ INPUT FROM HINGHAM HISTORICAL COMMISSION.



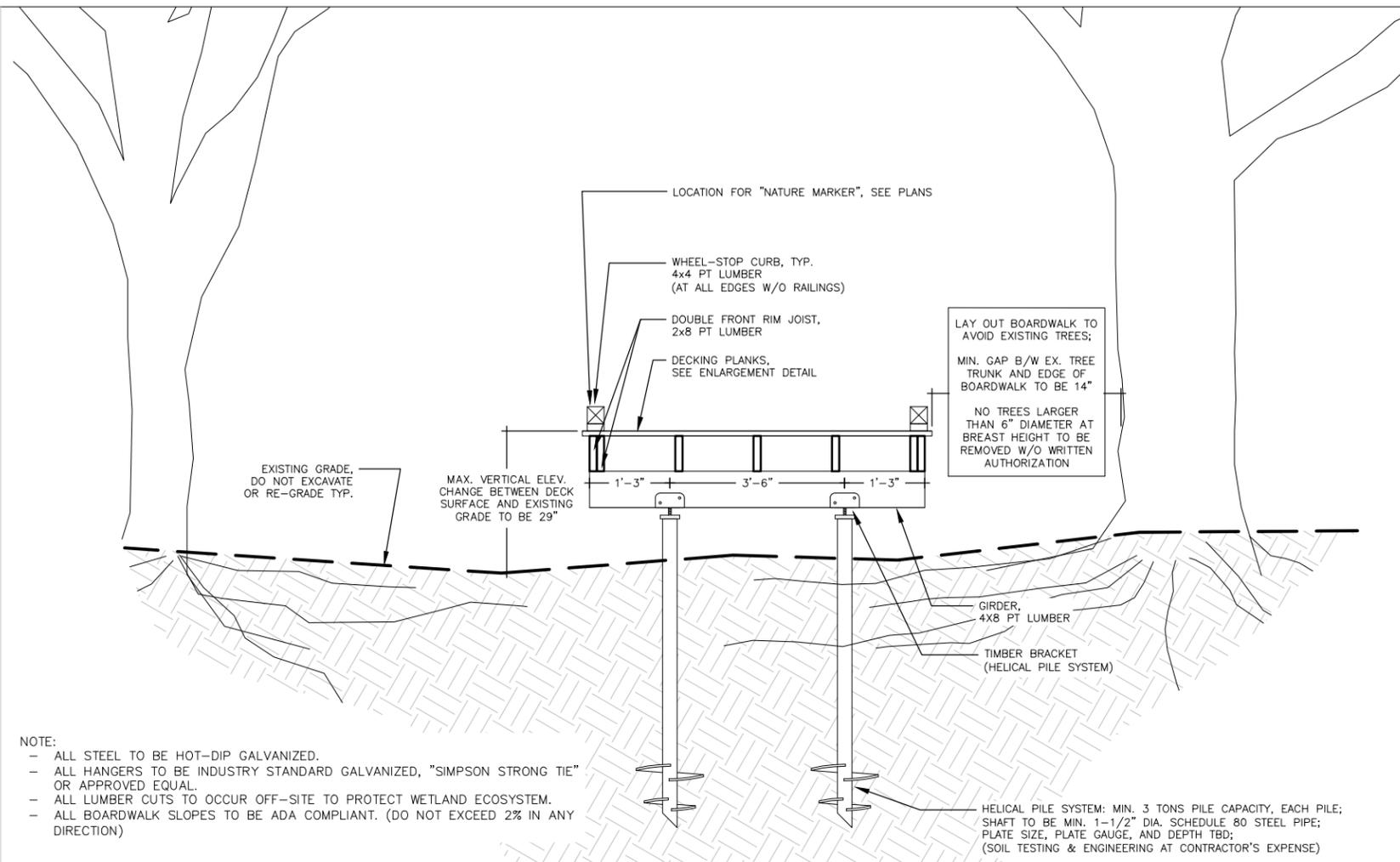
### 3.5 | INFORMATIONAL WAYSIDE



- NOTE:
- ALL STEEL TO BE HOT-DIP GALVANIZED.
  - ALL LUMBER CUTS TO OCCUR OFF-SITE TO PROTECT WETLAND ECOSYSTEM.

### 3.4 | CURB ENLARGEMENT

SCALE: 3/8" = 1'-0"



- NOTE:
- ALL STEEL TO BE HOT-DIP GALVANIZED.
  - ALL HANGERS TO BE INDUSTRY STANDARD GALVANIZED, "SIMPSON STRONG TIE" OR APPROVED EQUAL.
  - ALL LUMBER CUTS TO OCCUR OFF-SITE TO PROTECT WETLAND ECOSYSTEM.
  - ALL BOARDWALK SLOPES TO BE ADA COMPLIANT. (DO NOT EXCEED 2% IN ANY DIRECTION)

### 3.3 | BOARDWALK TRANSVERSE SECTION

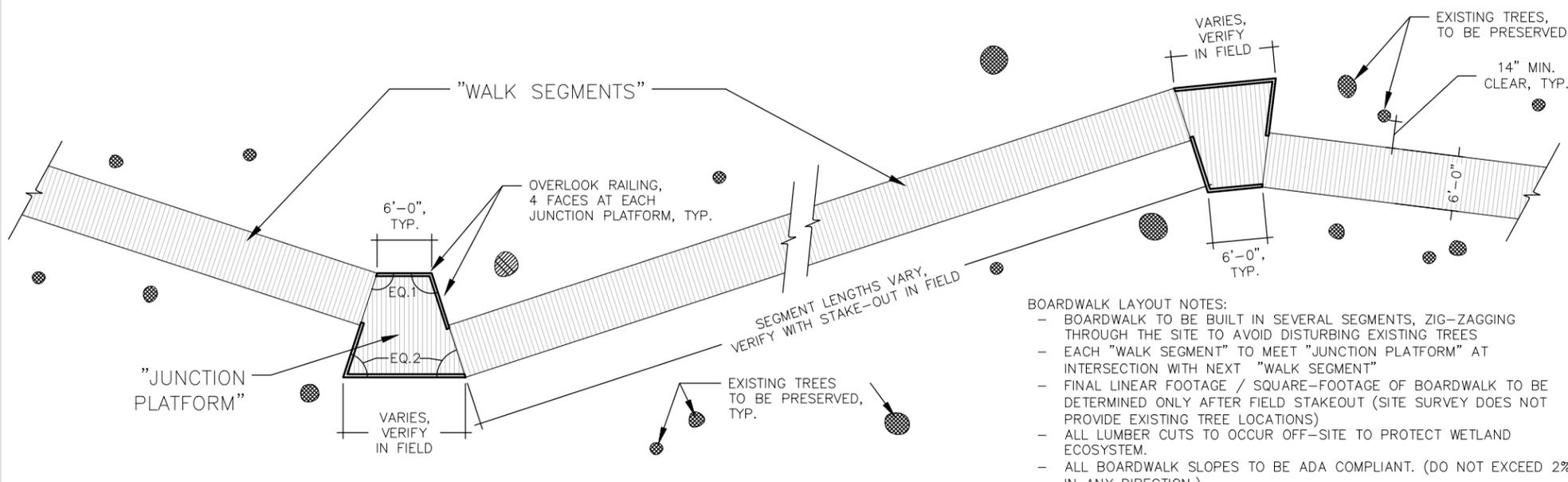
SCALE: 3/8" = 1'-0"

- NATURE MARKER NOTES:
- TO BE MOUNTED ATOP "WHEEL-STOP CURB"
  - SCREWS AND OTHER METAL COMPONENTS TO BE SS.
  - DESIGN AND COORDINATION OF WAYSIDE GRAPHIC TO BE BY HINGHAM CONSERVATION COMMISSION W/ INPUT FROM HINGHAM PUBLIC SCHOOLS.



### 3.2 | NATURE MARKER

NTS



- BOARDWALK LAYOUT NOTES:
- BOARDWALK TO BE BUILT IN SEVERAL SEGMENTS, ZIG-ZAGGING THROUGH THE SITE TO AVOID DISTURBING EXISTING TREES
  - EACH "WALK SEGMENT" TO MEET "JUNCTION PLATFORM" AT INTERSECTION WITH NEXT "WALK SEGMENT"
  - FINAL LINEAR FOOTAGE / SQUARE-FOOTAGE OF BOARDWALK TO BE DETERMINED ONLY AFTER FIELD STAKEOUT (SITE SURVEY DOES NOT PROVIDE EXISTING TREE LOCATIONS)
  - ALL LUMBER CUTS TO OCCUR OFF-SITE TO PROTECT WETLAND ECOSYSTEM.
  - ALL BOARDWALK SLOPES TO BE ADA COMPLIANT. (DO NOT EXCEED 2% IN ANY DIRECTION.)

### 3.1 | BOARDWALK EXAMPLE LAYOUT SCHEME

SCALE: 1/16" = 1'-0"

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SHEET TITLE:

**BOARDWALK DETAILS #1**

SCALE:  
N/A

SHEET # 3 OF 6

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PROJECT:

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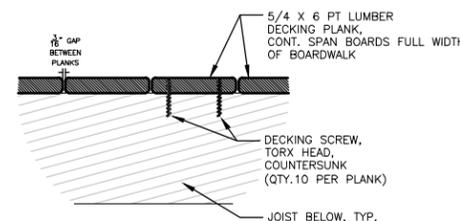
**BOARDWALK DETAILS #2**

SCALE:

N/A

SHEET # 4 OF 6

- NOTE:
- ALL STEEL TO BE HOT-DIP GALVANIZED.
  - ALL LUMBER CUTS TO OCCUR OFF-SITE TO PROTECT WETLAND ECOSYSTEM.
  - CARPENTRY MOCKUPS REQUIRED, TO BE APPROVED BY ARCHITECT.

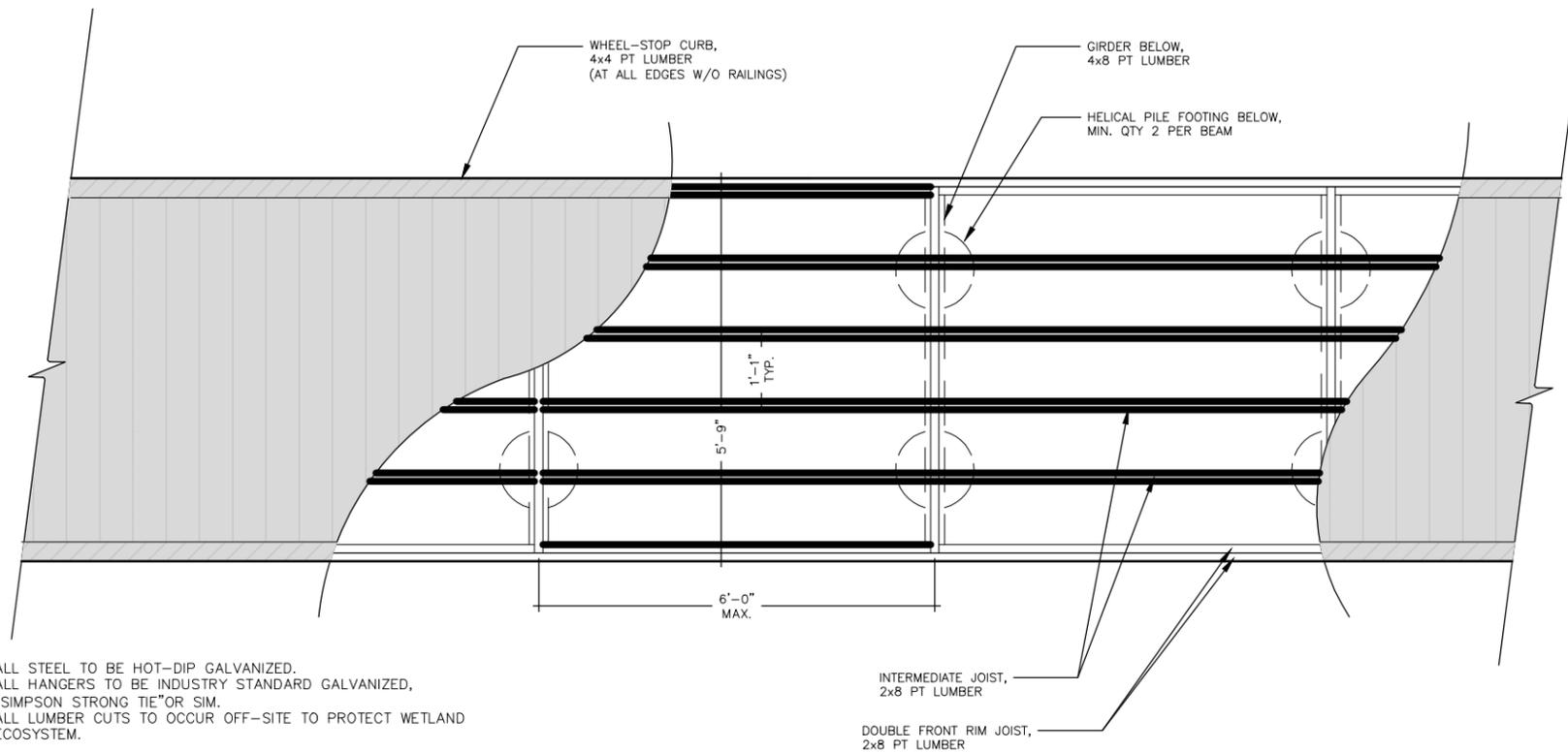


**4.5 | PLANKING ENLARGEMENT SECTION** SCALE: 1" = 1'-0"



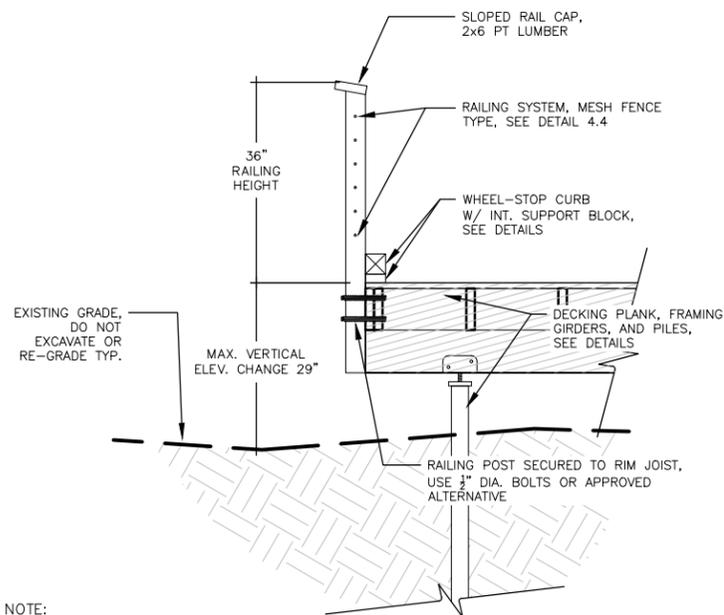
- RAILING NOTES:
- RAILING TO BE 4X4 WELDED MESH FENCE PANEL, ZINC-PRIMED AND POWDER-COATED, BY WILD HOG RAILING, OR SIM.
  - SCREWS/HARDWARE TO BE STAINLESS STEEL.
  - RAILING PANELS TO BE INSTALLED WITH TRIM BOARDS AS SEEN IN ENLARGEMENT PHOTO ABOVE.

**4.4 | RAILING SYSTEM** NTS



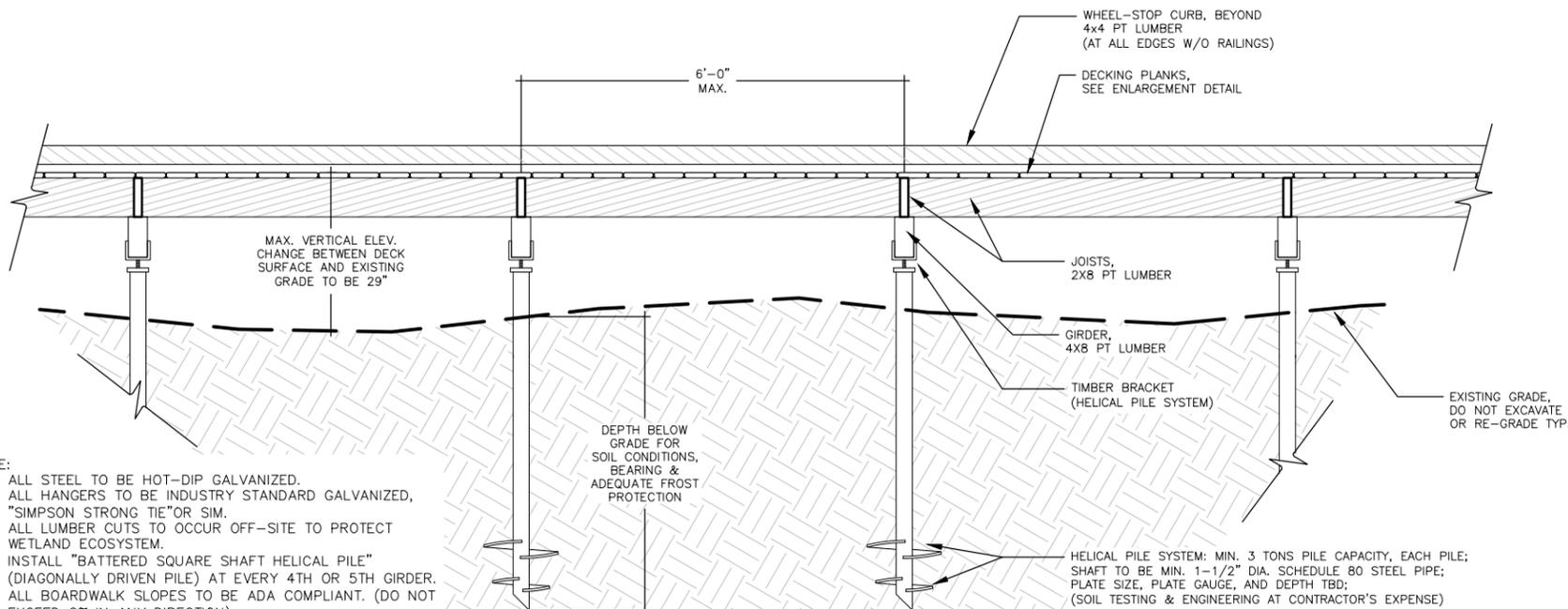
- NOTE:
- ALL STEEL TO BE HOT-DIP GALVANIZED.
  - ALL HANGERS TO BE INDUSTRY STANDARD GALVANIZED, "SIMPSON STRONG TIE" OR SIM.
  - ALL LUMBER CUTS TO OCCUR OFF-SITE TO PROTECT WETLAND ECOSYSTEM.

**4.3 | BOARDWALK FRAMING PLAN** SCALE: 3/8" = 1'-0"



- NOTE:
- SEE RAILING SYSTEM NOTES (4.4)
  - ALL LUMBER CUTS TO OCCUR OFF-SITE TO PROTECT WETLAND ECOSYSTEM.

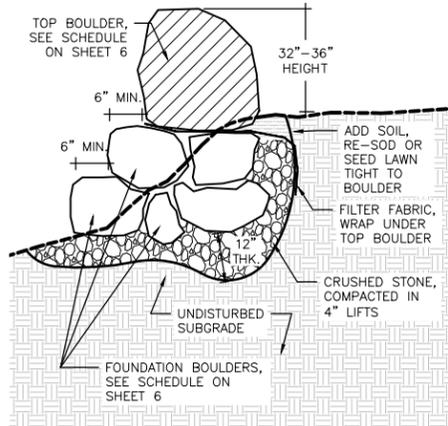
**4.2 | BOARDWALK W/ RAILING SYSTEM** SCALE: 3/8" = 1'-0"



- NOTE:
- ALL STEEL TO BE HOT-DIP GALVANIZED.
  - ALL HANGERS TO BE INDUSTRY STANDARD GALVANIZED, "SIMPSON STRONG TIE" OR SIM.
  - ALL LUMBER CUTS TO OCCUR OFF-SITE TO PROTECT WETLAND ECOSYSTEM.
  - INSTALL "BATTERED SQUARE SHAFT HELICAL PILE" (DIAGONALLY DRIVEN PILE) AT EVERY 4TH OR 5TH GIRDER.
  - ALL BOARDWALK SLOPES TO BE ADA COMPLIANT. (DO NOT EXCEED 2% IN ANY DIRECTION)

**4.1 | BOARDWALK LONGITUDINAL SECTION** SCALE: 3/8" = 1'-0"

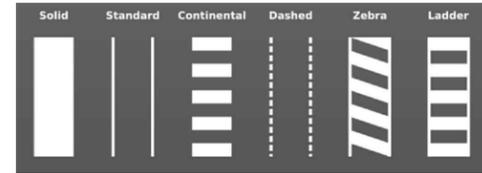
- BOULDER STACK NOTES:**
- BOULDER STACKS ARE INTENDED TO PREVENT CAR/TRUCK TRESPASS ONTO PROPOSED BOARDWALK.
  - ONLY HAND TOOLS MAY BE USED IN EXCAVATION.
  - TRUCKS DELIVERING BOULDERS AND OTHER MATERIALS MAY NOT ACCESS UNPAVED AREAS OF THE SITE.



**5.6 | VEHICLE DETERRENT BOULDER STACKS**

SCALE: 3/16" = 1'-0"

- CROSSWALK NOTES:**
- THIS IS A NEW CROSSWALK LOCATION.
  - PATTERN TO BE "CONTINENTAL" OR "LADDER", TBD BY HINGHAM TRAFFIC DIVISION.
  - PAINT PRODUCT TO BE "TBL DURABLES" BY EVERLINE COATINGS, OR APPROVED EQUAL.
  - CONTRACTOR TO PROVIDE AND/OR COORDINATE INSTALLATION OF CROSSWALK SIGNAGE, AS REQUIRED BY HINGHAM TRAFFIC DIVISION.
  - NO SIGNALING OR ELECTRONIC CROSSWALK COMPONENTS TO BE PART OF THIS CONTRACT.



**5.5 | CROSSWALK ON CENTRAL STREET**



**5.4 | TRAILHEAD KIOSKS**

NTS

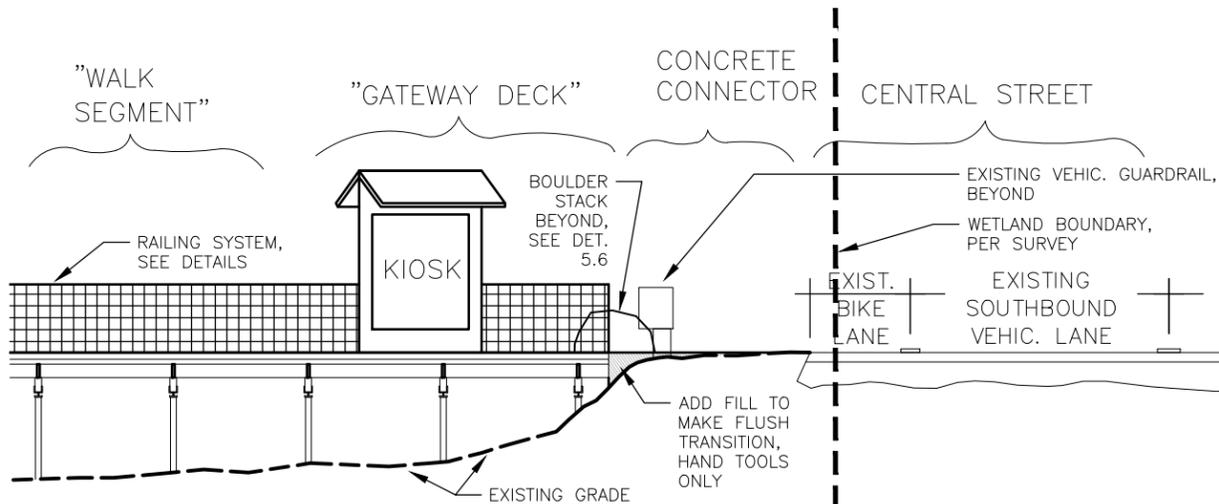
- TRAILHEAD KIOSK NOTES:**
- APPROXIMATE DIMENSIONS OF EACH KIOSK TO BE 8'-0" TALL AND 5'-0" WIDE.
  - CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.
  - KIOSKS MAY BE PURCHASED PRODUCT, KIT-BUILD, OR CUSTOM FABRICATED BY CONTRACTOR, BUT KIOSK INSTALLATION IS TO BE VISUALLY AND STRUCTURALLY INTEGRATED INTO CARPENTRY OF BOARDWALK AND/RAILING.
  - MATERIALS:
    - STRUCTURE: TP LUMBER TO MATCH BOARDWALK
    - SCREWS/HARDWARE: STAINLESS STEEL
    - PANEL: CORKBOARD BULLETIN BOARD, 48"x48", 1 PER KIOSK
    - COVER: HEAVY-DUTY PLEXIGLASS W/ KEY-LOCKABLE FITTINGS, 48"x48", 1 PER KIOSK
    - AWNING: CEDAR SHINGLES OR APPROVED EQUAL.

- BIKE LOCKING POINTS NOTES:**
- PRODUCT TO BE MOUNTED TO VERTICAL POSTS OF TRAILHEAD, PER MANUFACTURER'S INSTRUCTIONS.
  - PRODUCT TO BE "WALL-IT" BY BIKE SOLUTIONS, OR APPROVED EQUAL.



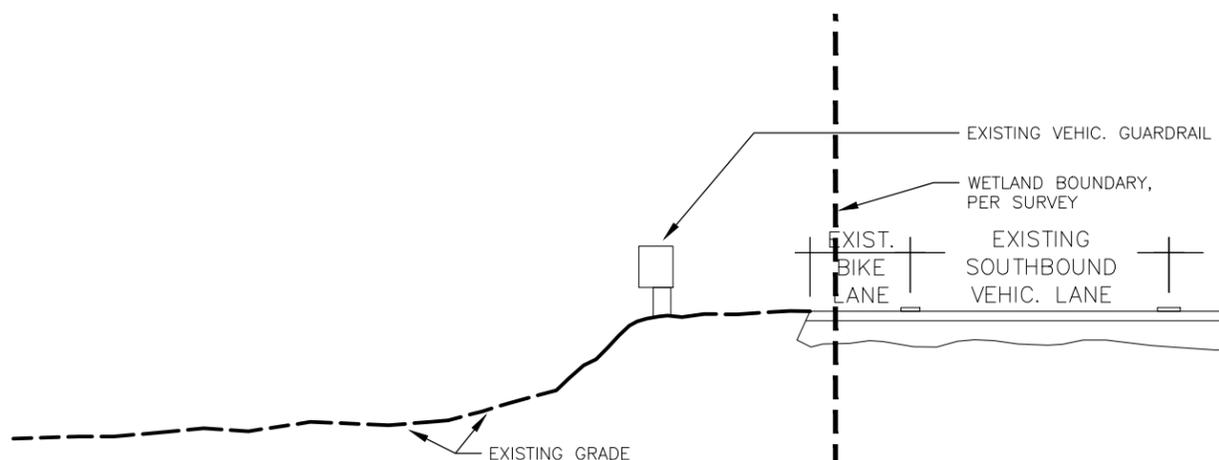
**5.3 | BIKE LOCKING POINT**

NTS



**5.2 | PROPOSED CONDITION: EAST END OF BOARDWALK / TRAILHEAD AREA**

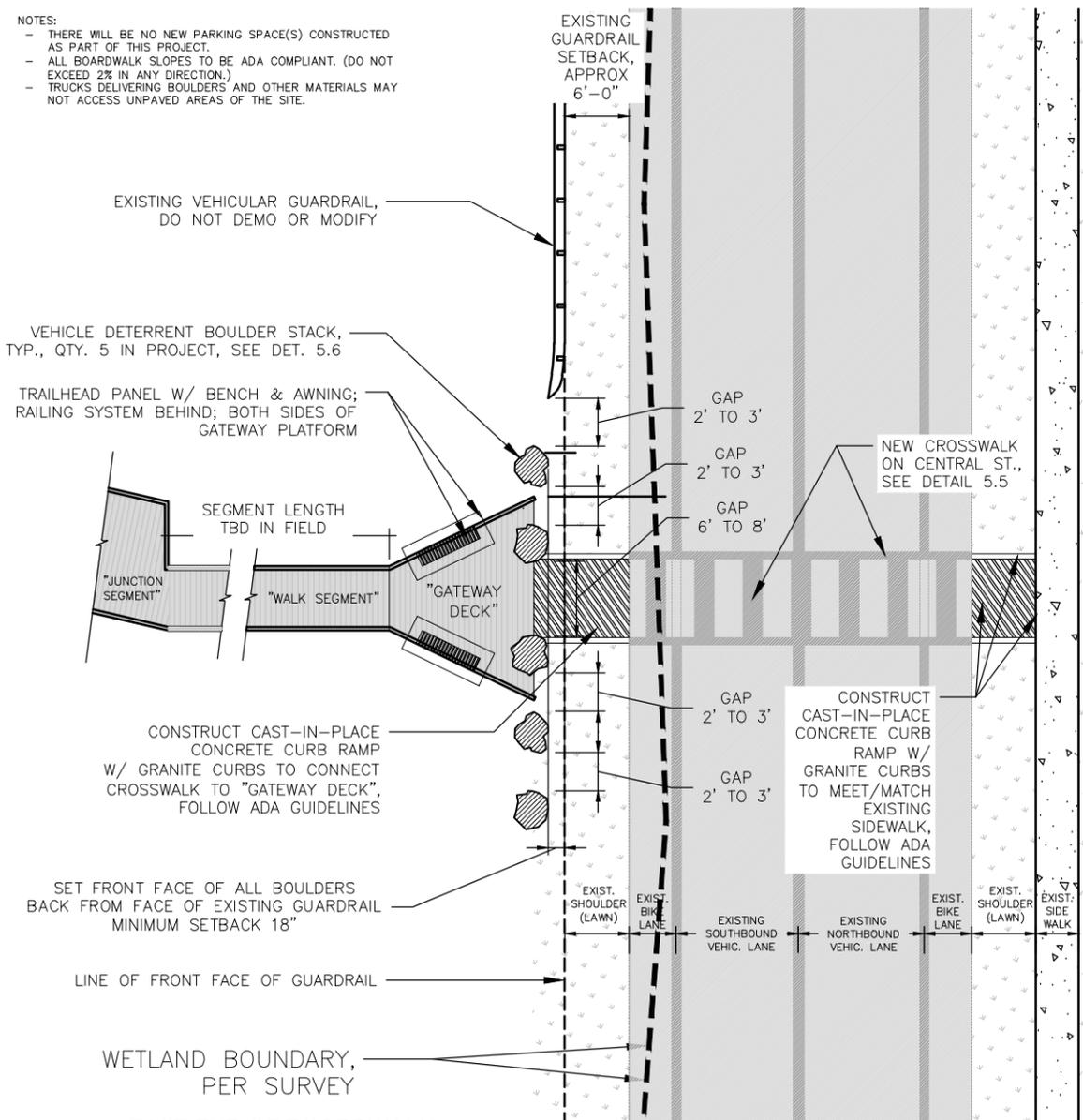
NOT TO SCALE



**5.2X | EXISTING CONDITION: EAST END OF BOARDWALK / TRAILHEAD AREA**

NOT TO SCALE

- NOTES:**
- THERE WILL BE NO NEW PARKING SPACE(S) CONSTRUCTED AS PART OF THIS PROJECT.
  - ALL BOARDWALK SLOPES TO BE ADA COMPLIANT. (DO NOT EXCEED 2% IN ANY DIRECTION.)
  - TRUCKS DELIVERING BOULDERS AND OTHER MATERIALS MAY NOT ACCESS UNPAVED AREAS OF THE SITE.



**5.1 | TRAILHEAD ON CENTRAL STREET**



SCALE: 1/16" = 1'-0"

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NOT FOR CONSTRUCTION

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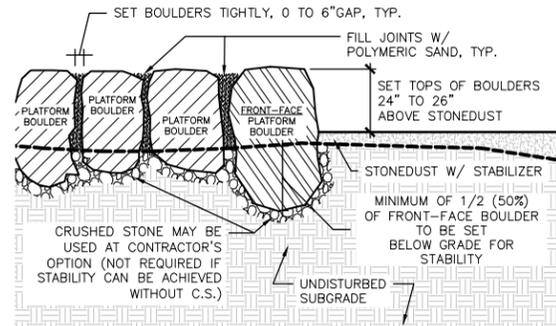
**TRAILHEAD DETAILS**

SCALE:

N/A

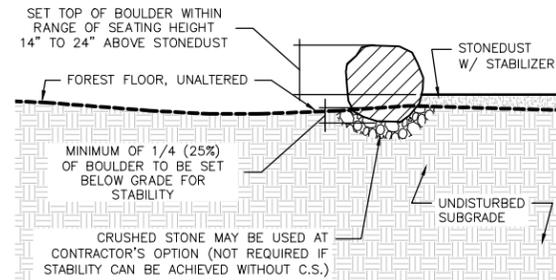
SHEET # 5 OF 6

- PLATFORM BOULDER NOTES:**
- MINIMUM OF 1/4 (25%) OF PLATFORM BOULDERS TO BE SET BELOW GRADE FOR STABILITY. (FRONT-FACE BOULDER TO HAVE 50% BELOW GRADE.)
  - ONLY HAND TOOLS MAY BE USED IN EXCAVATION.
  - TRUCKS DELIVERING BOULDERS AND OTHER MATERIALS MAY NOT ACCESS UNPAVED AREAS OF THE SITE.
  - SEATING BOULDERS MUST BE TRANSPORTED ACROSS PROPOSED BOARDWALK. SEE SCHEDULE FOR WEIGHT LIMITS.



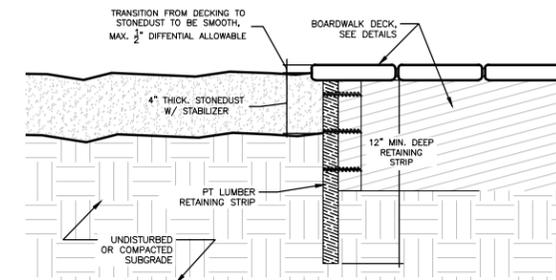
**6.5 | PLATFORM BOULDERS** SCALE: 3/16" = 1'-0"

- SEATING BOULDER NOTES:**
- ONLY HAND TOOLS MAY BE USED IN EXCAVATION.
  - TRUCKS DELIVERING BOULDERS AND OTHER MATERIALS MAY NOT ACCESS UNPAVED AREAS OF THE SITE.
  - SEATING BOULDERS MUST BE TRANSPORTED ACROSS PROPOSED BOARDWALK. SEE SCHEDULE FOR WEIGHT LIMITS.



**6.4 | SEATING BOULDER INSTALL** SCALE: 3/16" = 1'-0"

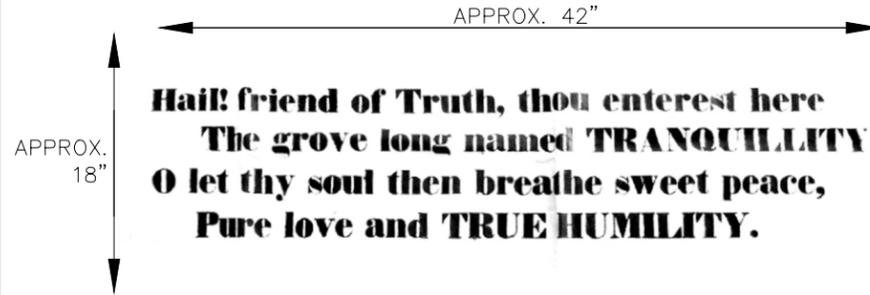
- NOTE:**
- ALL STEEL TO BE HOT-DIP GALVANIZED.
  - ALL LUMBER CUTS TO OCCUR OFF-SITE TO PROTECT WETLAND ECOSYSTEM.



**6.3 | DECK TRANSITION** SCALE: 1" = 1'-0"

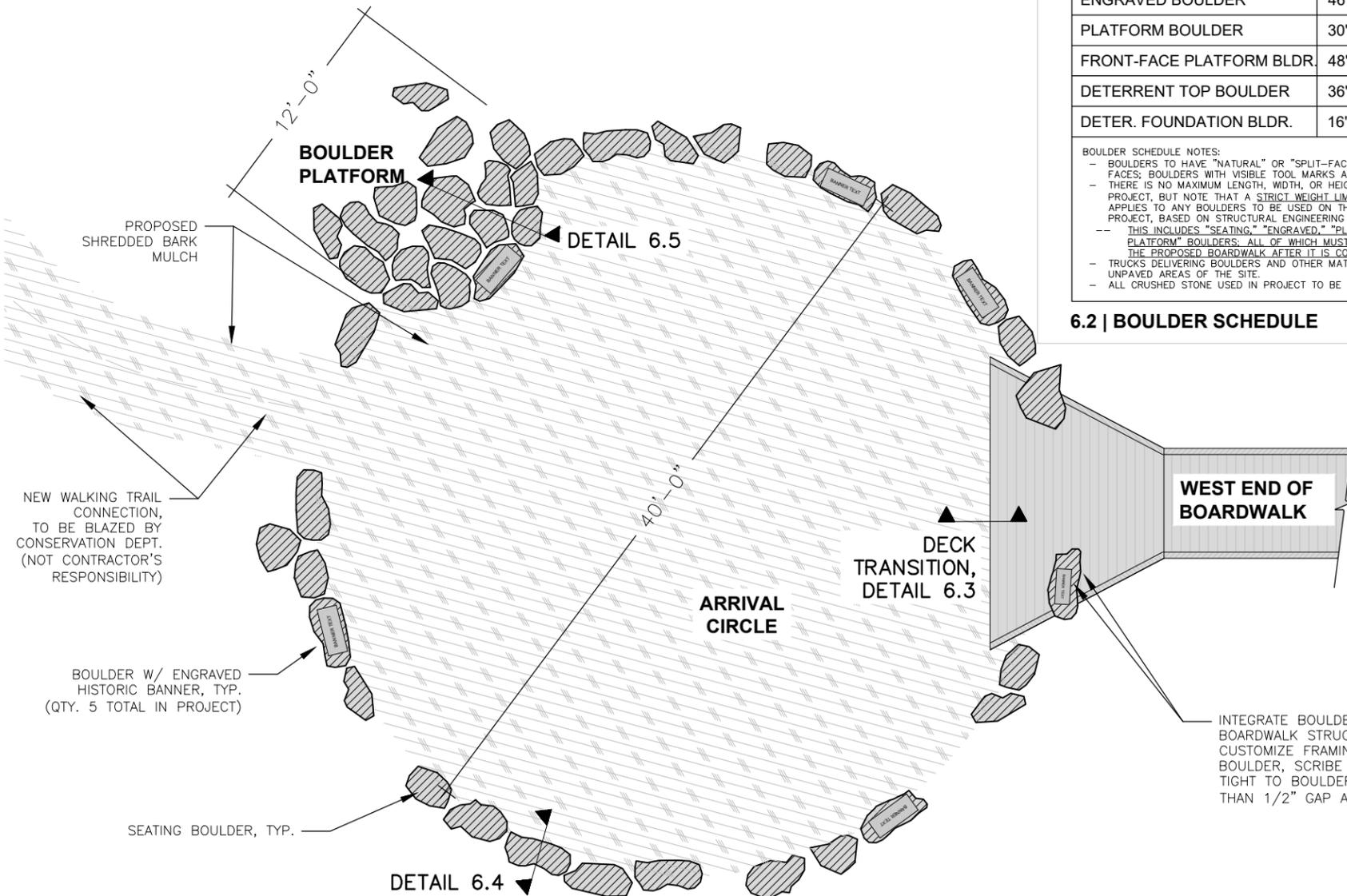


**6.7 | BOULDER ENGRAVING PRECEDENT**



**6.6 | HISTORIC BANNER, HINGHAM HISTORICAL ARCHIVES**

- GATHERING AREA NOTES:**
- GATHERING AREA TO BE LOCATED EAST OF THE DELINEATED WETLAND ZONE.
  - ONLY HAND TOOLS MAY BE USED IN EXCAVATION.
  - TRUCKS DELIVERING BOULDERS AND OTHER MATERIALS MAY NOT ACCESS UNPAVED AREAS OF THE SITE.
  - "SEATING BOULDERS," "ENGRAVED BOULDERS," AND "PLATFORM BOULDERS" MUST BE TRANSPORTED ACROSS PROPOSED BOARDWALK. SEE BOULDER SCHEDULE FOR WEIGHT LIMITS.



**6.1 | GATHERING AREA AT WEST END OF BOARDWALK**

STONE SCHEDULE		PROVIDED FOR COST ESTIMATION		
	MIN. LENGTH	MIN. WIDTH	MIN. HEIGHT	TOTAL QTY. IN PROJECT
SEATING BOULDER	20"	18"	24"	30
ENGRAVED BOULDER	46"	22"	22"	5
PLATFORM BOULDER	30"	18"	18"	15
FRONT-FACE PLATFORM BLDR.	48"	18"	18"	10
DETERRENT TOP BOULDER	36"	36"	36"	5
DETER. FOUNDATION BLDR.	16"	16"	16"	+/-25

- BOULDER SCHEDULE NOTES:**
- BOULDERS TO HAVE "NATURAL" OR "SPLIT-FACE" FINISH ON ALL VISIBLE FACES; BOULDERS WITH VISIBLE TOOL MARKS ARE TO BE REJECTED.
  - THERE IS NO MAXIMUM LENGTH, WIDTH, OR HEIGHT TO ANY BOULDER IN THIS PROJECT, BUT NOTE THAT A STRICT WEIGHT LIMIT OF ONE TON (1,000 KG) APPLIES TO ANY BOULDERS TO BE USED ON THE EASTERN SIDE OF THE PROJECT, BASED ON STRUCTURAL ENGINEERING OF THE BOARDWALK.
  - THIS INCLUDES "SEATING," "ENGRAVED," "PLATFORM," AND "FRONT-FACE PLATFORM" BOULDERS; ALL OF WHICH MUST BE TRANSPORTED ACROSS THE PROPOSED BOARDWALK AFTER IT IS CONSTRUCTED.
  - TRUCKS DELIVERING BOULDERS AND OTHER MATERIALS MAY NOT ACCESS UNPAVED AREAS OF THE SITE.
  - ALL CRUSHED STONE USED IN PROJECT TO BE ANGULAR TYPE, WASHED.

**6.2 | BOULDER SCHEDULE**

- BOULDER ENGRAVING NOTES:**
- ENGRAVING TO BE SANDBLAST METHOD W/ CUSTOM STENCIL.
  - SANDBLASTING MAY BE PERFORMED ON-SITE, BUT MUST OCCUR OUTSIDE OF WETLAND ZONE.
  - MULTIPLE 12"x12" ENGRAVING MOCKUPS SHALL BE PROVIDED UNTIL ARCHITECT APPROVAL IS GIVEN. MOCKUPS TO INCLUDE ACTUAL TEXT PATTERN.
  - ONLY HAND TOOLS MAY BE USED IN EXCAVATION.
  - TRUCKS DELIVERING BOULDERS AND OTHER MATERIALS MAY NOT ACCESS UNPAVED AREAS OF THE SITE.
  - ENGRAVED BOULDERS MUST BE TRANSPORTED ACROSS PROPOSED BOARDWALK. SEE SCHEDULE FOR WEIGHT LIMITS.

INTEGRATE BOULDER INTO BOARDWALK STRUCTURE; CUSTOMIZE FRAMING TIGHT TO BOULDER, SCRIBE DECKING PLANKS TIGHT TO BOULDER, LEAVING LESS THAN 1/2" GAP ALL AROUND, TYP.

SCALE: 1/8" = 1'-0"

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SHEET TITLE:

**GATHERING AREA DETAILS**

SCALE:

N/A

SHEET # 6 OF 6