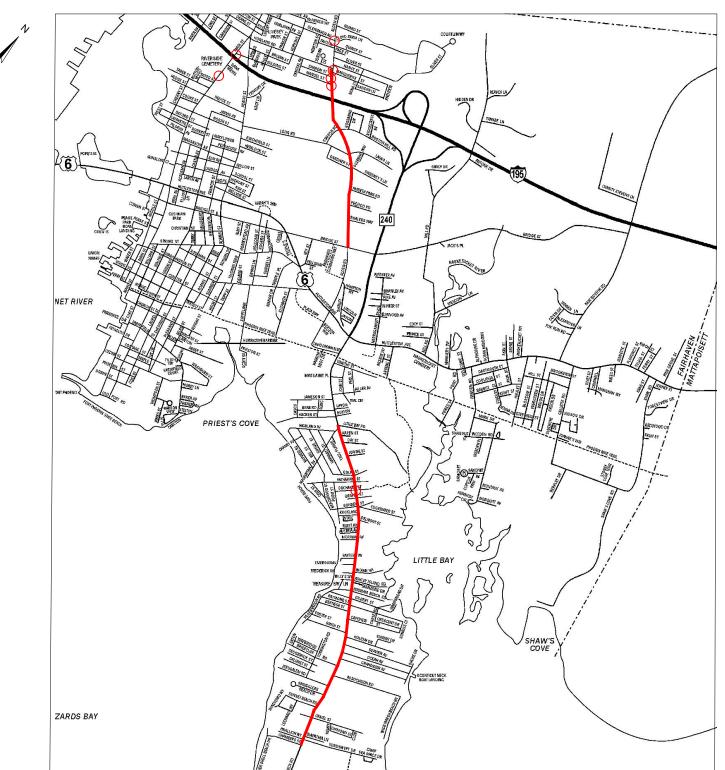
# TOWN OF FAIRHAVEN, MASSACHUSETTS FISCAL YEAR 2021 COMPLETE STREETS AND SHARED STREETS IMPROVEMENTS CONSTRUCTION DRAWINGS



#### **INDEX**

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15-16 TRAFFIC MANAGEMENT PLANS

SOURCE: TOWN OF FAIRHAVEN GIS

THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 2021, THE 2017 CONSTRUCTION STANDARD DETAILS, THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS WITH MASSACHUSETTS AMENDMENTS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, WILL GOVERN.





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PROJECT: C	OMPLE1 IMPRO	TE STRE VEMEN	
DESIGN SUBMISSION:	FINAL	DESIGN	1
DRAWING TITLE:	DRAWING TITLE: TITLE SHEET		
PREPARED FOR: TOWN OF FAIRHAVEN DEPARTMENT OF PUBLIC WORKS 5 ARSENE STREET FAIRHAVEN, MASSACHUSETTS			
PREPARED BY: GREEN INTERNATIONAL AFFILIATES, INC. TRANSPORTATION I STRUCTURAL I WATER RESOURCES   CIVIL/SITE 100 AMES POND, SUITE 200 TEWKSBURY, MA 01876 978.923.0400   www.greenintl.com			
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DATE: JANUARY 2022	DRAWN BY:	AC,JG	SHEET NO.
PROJECT NO. 21076	CHECKED BY:	ww	1 oF 16

#### **GENERAL NOTES**

- 1 THE WORK UNDER THIS PROJECT INCLUDES BUT IS NOT LIMITED TO THE CONSTRUCTION AND/OR RECONSTRUCTION OF CEMENT CONCRETE WHEFT CHAIR RAMPS CONSTRUCTION OF CEMENT CONCRETE SIDEWALK, PROTECTION OF EXISTING UTILITIES TO REMAIN, INSTALLATION OF TRAFFIC SIGNS INCLUDING RADAR SPEED FEEDBACK SIGNS AND RECTANGULAR RAPID FLASHING BEACONS, BUS SHELTER ON CEMENT CONCRETE PAD, PLACEMENT OF PAVEMENT MARKINGS, GRADING, AND TRAFFIC MAINTENANCE DURING CONSTRUCTION
- 2. THE CONTRACTOR SHALL NOTIFY THE TOWN OF ALL CONFLICTS BETWEEN THE EXISTING UTILITIES AND PROPOSED WORK. THE ENGINEER RESERVES THE RIGHT TO MODIFY THE DESIGN TO SUIT ACTUAL FIELD CONDITIONS ENCOUNTERED.
- 3. ALL EXISTING STREET NAME, REGULATORY, GUIDE, AND WARNING SIGNS, INCLUDING POSTS, WITHIN THE LIMITS OF WORK ARE TO BE RETAINED UNLESS OTHERWISE NOTED
- 4. THE CONTRACTOR SHALL RETAIN AND PROTECT ALL CURBS, FENCES, WALLS, TREES, SHRUBS, POSTS, LANDSCAPE FEATURES, AND OTHER MISCELLANEOUS ITEMS WITHIN ABUTTING PROPERTIES UNLESS OTHERWISE NOTED. WHEN RETAINING THOSE ITEMS IS NOT PRACTICAL IN THE OPINION OF THE ENGINEER, THE CONTRACTOR SHALL REMOVE, STOCKPILE, PROTECT AND RESET THE ITEMS. THE CONTRACTOR SHALL REPLACE ITEMS DAMAGED DURING REMOVAL, STOCKPILING, OR RESETTING DUE TO NEGLIGENCE. CARELESSNESS. OR MISHANDLING WITH EQUIVALENT NEW ITEMS AT NO COST TO THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING TREES NOT CALLED OUT IN THE PLANS TO BE REMOVED. THE COSTS FOR PROTECTION SHALL BE INCIDENTAL TO THE CONTRACT.
- 5. CONTRACTOR SHALL NOT PARK OR STORE CONSTRUCTION EQUIPMENT, MATERIALS OR VEHICLES UNDER THE DRIPLINE OF ANY TREE.
- 6. THE CONTRACTOR SHALL PROVIDE ALL SAFETY CONTROL (SIGNS, REFLECTORIZED DRUMS, ETC) FOR CONSTRUCTION OPERATIONS IN ACCORDANCE WITH THE TRAFFIC MANAGEMENT PLANS INCLUDED HEREIN AND THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 7. THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES PRIOR TO THE START OF WORK
- 8 ALL AREAS WITHIN THE PROPOSED SLOPE LIMITS SHALL BE REPLACED IN KIND UNLESS OTHERWISE NOTED
- 9. ALL MATERIALS TO BE REMOVED AND DISCARDED SHALL BE DELIVERED BY THE CONTRACTOR TO THE TOWN OF FAIRHAVEN AND STACKED AT A LOCATION DESIGNATED BY THE TOWN
- 10. ALL UTILITIES AND THEIR APPURTENANCES SHALL BE RETAINED AND PROTECTED UNLESS OTHERWISE NOTED.
- 11. CONTRACTOR SHALL PERFORM ITS OWN FIELD VERIFICATION OF THE EXISTING CONDITIONS, GRADES, AND ELEVATIONS PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES, CONFLICTS OR DRAINAGE ISSUES. THE CONTRACTOR IS RESPONSIBLE FOR BUILDING ALL WALKS AND WHEELCHAIR RAMPS TO ADA AND MAAB REQUIREMENTS. ANY WORK NOT MEETING ADA OR MAAB SHALL BE RECONSTRUCTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER
- 12. THE EXISTING CONDITIONS SHOWN IN THE AERIAL PHOTOS IN THIS PLAN SET ARE FROM 2019 MASSGIS COLOR AERIAL IMAGERY. THE CONTRACTOR SHALL NOTE THAT IN SOME LOCATIONS FIELD CONDITIONS HAVE CHANGED SINCE THE AERIAL PHOTOS WERE TAKEN. THE CONTRACTOR SHALL PERFORM ITS OWN FIELD VERIFICATION PRIOR TO COMPLETING ANY OF THE PROPOSED WORK
- 13. THESE DRAWINGS WERE PREPARED SOLELY FOR AND ARE INTENDED FOR THE WORK ASSOCIATED WITH THIS PROJECT. THE USE OR REUSE OF THESE DRAWINGS FOR OTHER PURPOSES OR BY PARTIES NOT DIRECTLY CONTRACTED TO THIS PROJECT IS PROHIBITED WITHOUT PRIOR WRITTEN PERMISSION FROM THE TOWN OF FAIRHAVEN

#### PLAN NOTES - MAIN STREET AT WILDING STREET

- 1. THE EXISTING CONDITIONS SHOWN IN THE BASEMAP FOR MAIN STREET AT WILDING STREET ARE THE RESULT OF AN ON THE GROUND INSTRUMENT SURVEY PERFORMED BY GREEN INTERNATIONAL AFEILIATES INC. ON NOVEMBER 9 2021
- 2. THE EXISTING CONDITIONS SHOWN IN THE AERIAL PHOTOS IN THIS PLAN SET ARE FROM 2019 USGS COLOR ORTHO IMAGERY. THE CONTRACTOR SHALL NOTE THAT IN SOME LOCATIONS FIELD CONDITIONS HAVE CHANGED SINCE THE AERIAL PHOTOS WERE TAKEN. THE CONTRACTOR SHALL PERFORM ITS OWN FIELD VERIFICATION PRIOR TO COMPLETING ANY OF THE PROPOSED WORK.
- 3. THE HORIZONTAL AND VERTICAL CONTROLS WERE ESTABLISHED BY GREEN INTERNATIONAL; AFFILIATES, INC. HORIZONTAL DATUM IS MASSACHUSETTS STATE PLANE (2001) U.S. SURVEY FEET. VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1983 (NAVD83)

#### UTILITY NOTES

- 1. THE CONTRACTOR IS HEREBY MADE AWARE THAT EXISTING UTILITIES, INCLUDING BUT NOT LIMITED TO EXISTING WATER AND DRAIN PIPES; DRAINAGE AND SEWER STRUCTURES; GAS LINES, COMMUNICATION LINES AND UTILITY POLES, MAY NEED TO BE PROTECTED AND/OR SHORED UP DURING THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS UNDER THIS PROJECT. THE COST OF THE WORK REQUIRED FOR THE PROTECTION, MAINTENANCE AND SUPPORT OF THESE OR OTHER EXISTING ABOVE GROUND OR UNDERGROUND UTILITIES IN THE VICINITY OF THE PROPOSED WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE WORK UNDER THIS CONTRACT
- 2. PRIOR TO THE START OF ANY WORK ON THE SITE, THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION OF ALL UTILITIES, SHOWN OR NOT SHOWN ON THIS PLAN. CONTACT DIG-SAFE AT 1-888-344-7233 (1-888-DIG-SAFE) AT LEAST 72 HOURS PRIOR TO THE START OF EXCAVATION

#### COMPLETE STREETS PROJECT: **IMPROVEMENTS**

DESIGN SUBMISSION:

FINAL DESIGN

DRAWING TITLE

#### **GENERAL NOTES**

PREPARED FOR



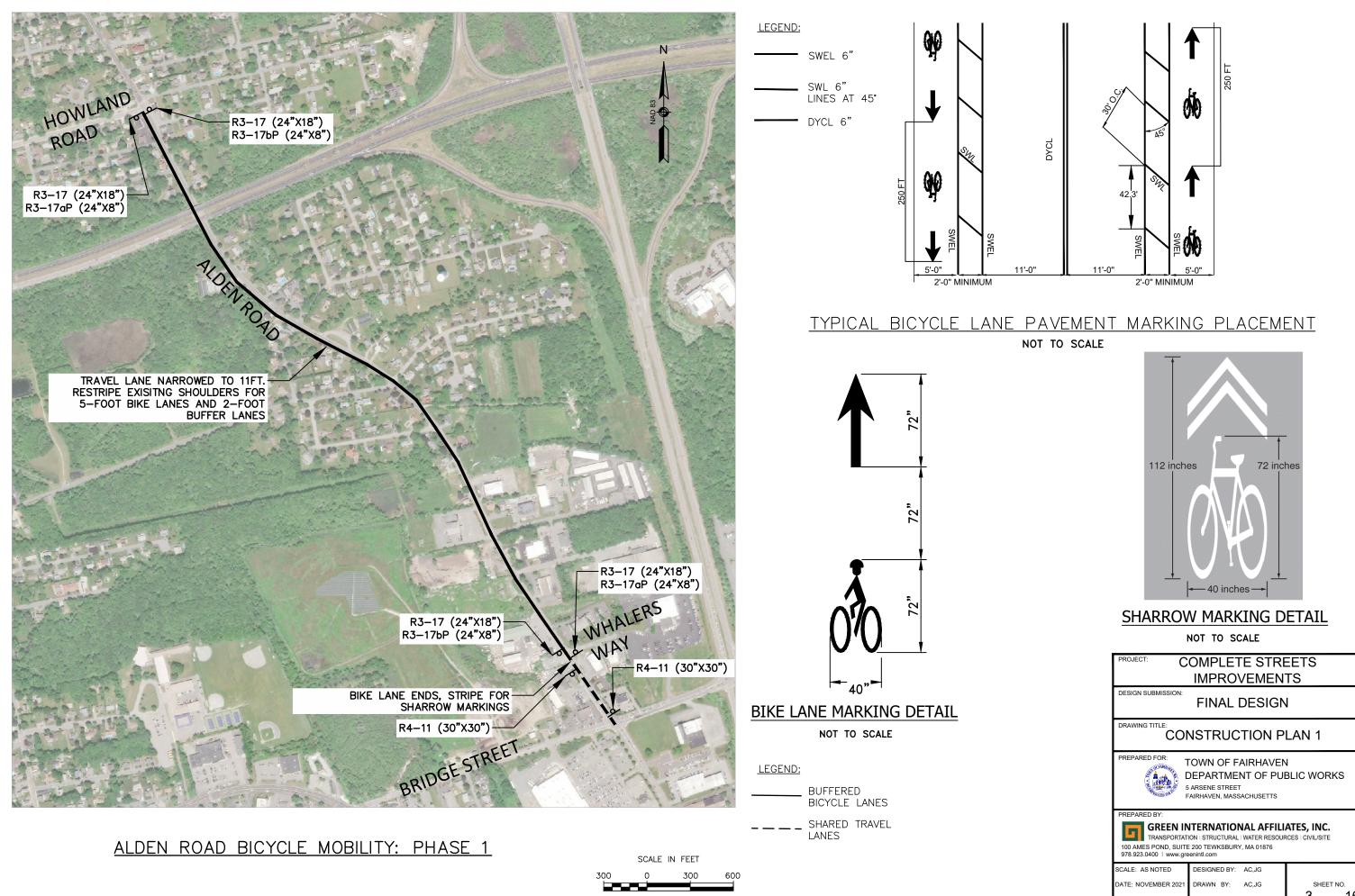
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#### PREPARED BY

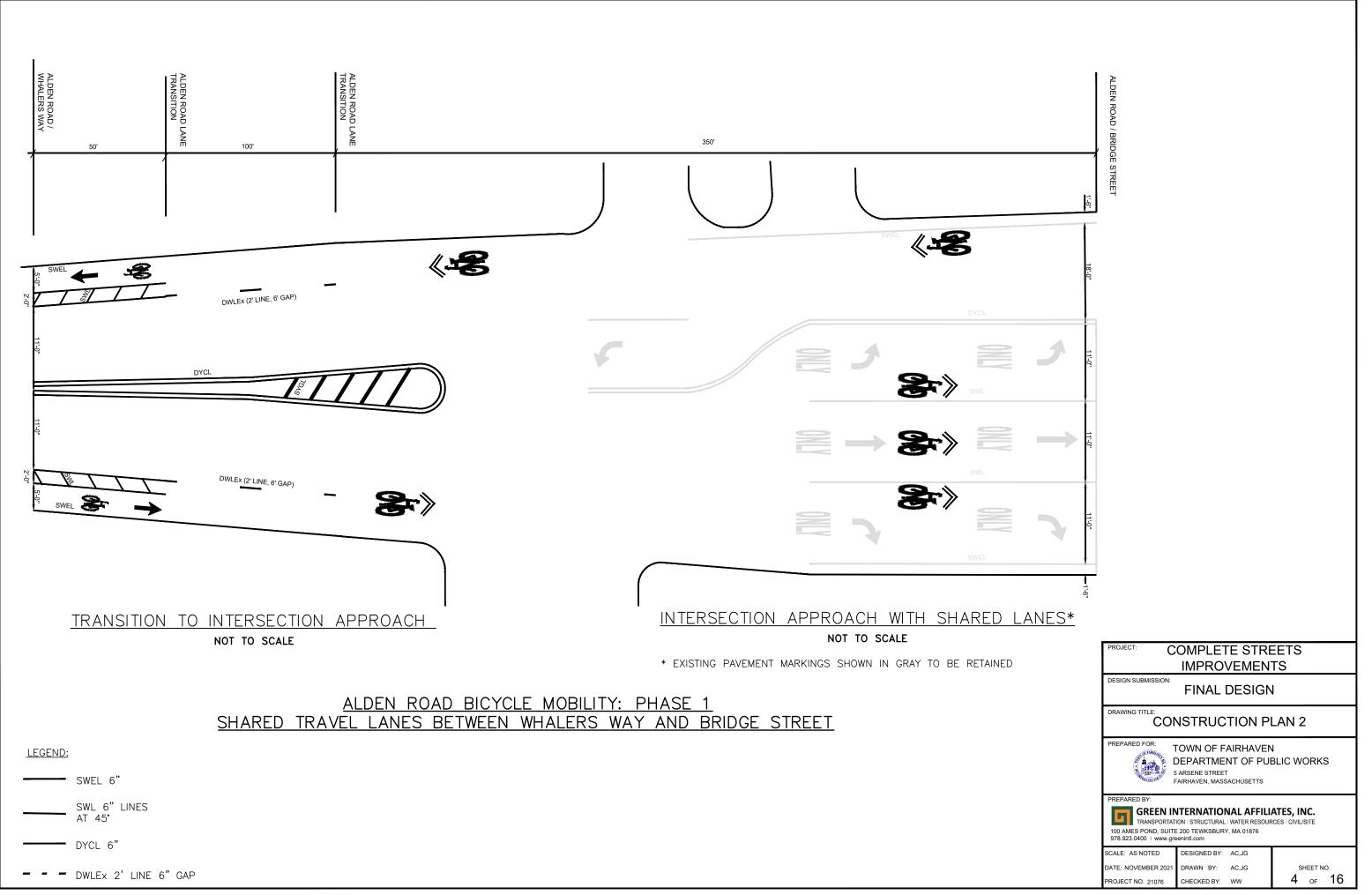
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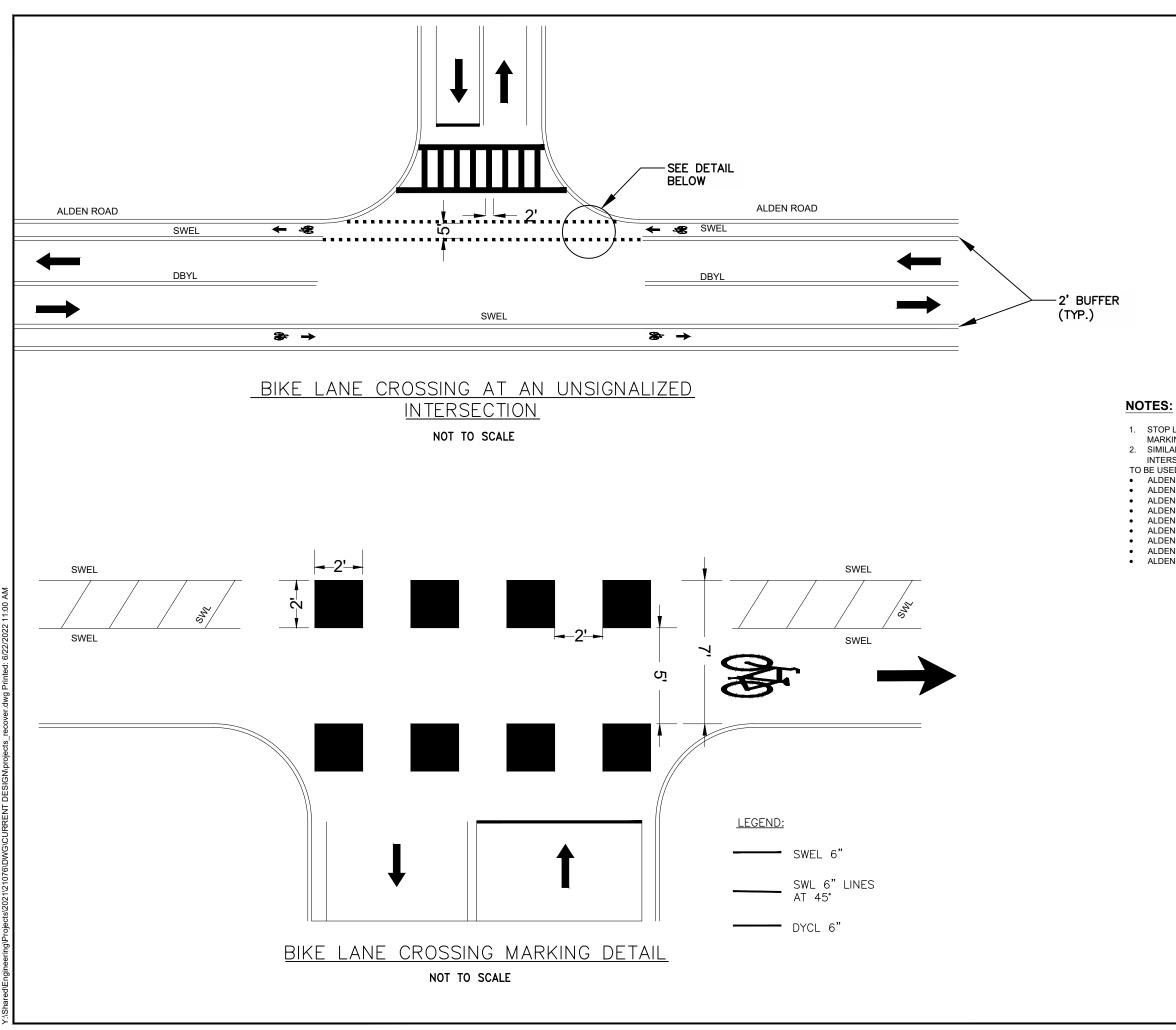
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SCALE: AS NOTED	DESIGNED BY:	AC,JG	
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PROJECT NO. 21076	CHECKED BY:	ww	2 of 16



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PROJECT NO. 21076	CHECKED BY:	ww	3 of 16



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 STOP LINE TO BE PLACED A MINIMUM OF 4 FEET BACK FROM BIKE LANE CROSSING MARKINGS WHERE THERE IS NO PEDESTRIAN CROSSWALK ACROSS SIDE STREET.
 SIMILAR SET-UP CAN BE USED FOR BOTH THREE-LEGGED AND FOUR-LEGGED INTERSECTIONS.

TO BE USED AT THE FOLLOWING LOCATIONS:

ALDEN ROAD AT MARGUERITE STREET

ALDEN ROAD AT SHARON STREET

ALDEN ROAD AT MANUEL STREET

ALDEN ROAD AT STAFFON ROAD/BOSTON HILL ROAD ALDEN ROAD AT STAFFON ROAD/BOSTON HILL ROAD ALDEN ROAD AT LONG ROAD/LAURA LANE ALDEN ROAD AT SWEENEYS LANE

ALDEN ROAD AT GARDNER STREET

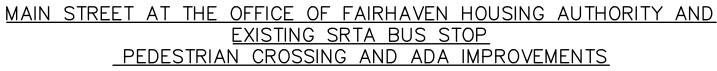
ALDEN ROAD AT LAMBETH PARK DRIVE

ALDEN ROAD AT PEQUOD ROAD

PROJECT: C	PROJECT: COMPLETE STREETS IMPROVEMENTS			
DESIGN SUBMISSION:	FINAL	DESIGN	I	
	DRAWING TITLE: CONSTRUCTION PLAN 3			
PREPARED FOR: TOWN OF FAIRHAVEN DEPARTMENT OF PUBLIC WORKS 5 ARSENE STREET FAIRHAVEN, MASSACHUSETTS				
PREPARED BY: GREEN INTERNATIONAL AFFILIATES, INC. TRANSPORTATION   STRUCTURAL   WATER RESOURCES   CIVIL/SITE 100 AMES POND, SUITE 200 TEWKSBURY, MA 01876 978.923.0400   www.greenintl.com				
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PROJECT NO. 21076	CHECKED BY:	ww	5 of 16	



EXISTING SRTA BUS STOP PEDESTRIAN CROSSING AND ADA IMPROVEMENTS



SCALE IN FEET

30

LEGEND:

○ = APPROX. ADA-COMPLIANT WHEELCHAIR RAMP OR ITEM

**IIIIIII** = APPROX. NEW OR RESTRIPED CROSSWALK

**•** = APPROX. RRFB LOCATION

#### ROJECT COMPLETE STREETS **IMPROVEMENTS**

DESIGN SUBMISSION

FINAL DESIGN

#### DRAWING TITLE **CONSTRUCTION PLAN 4**

PREPARED FOR



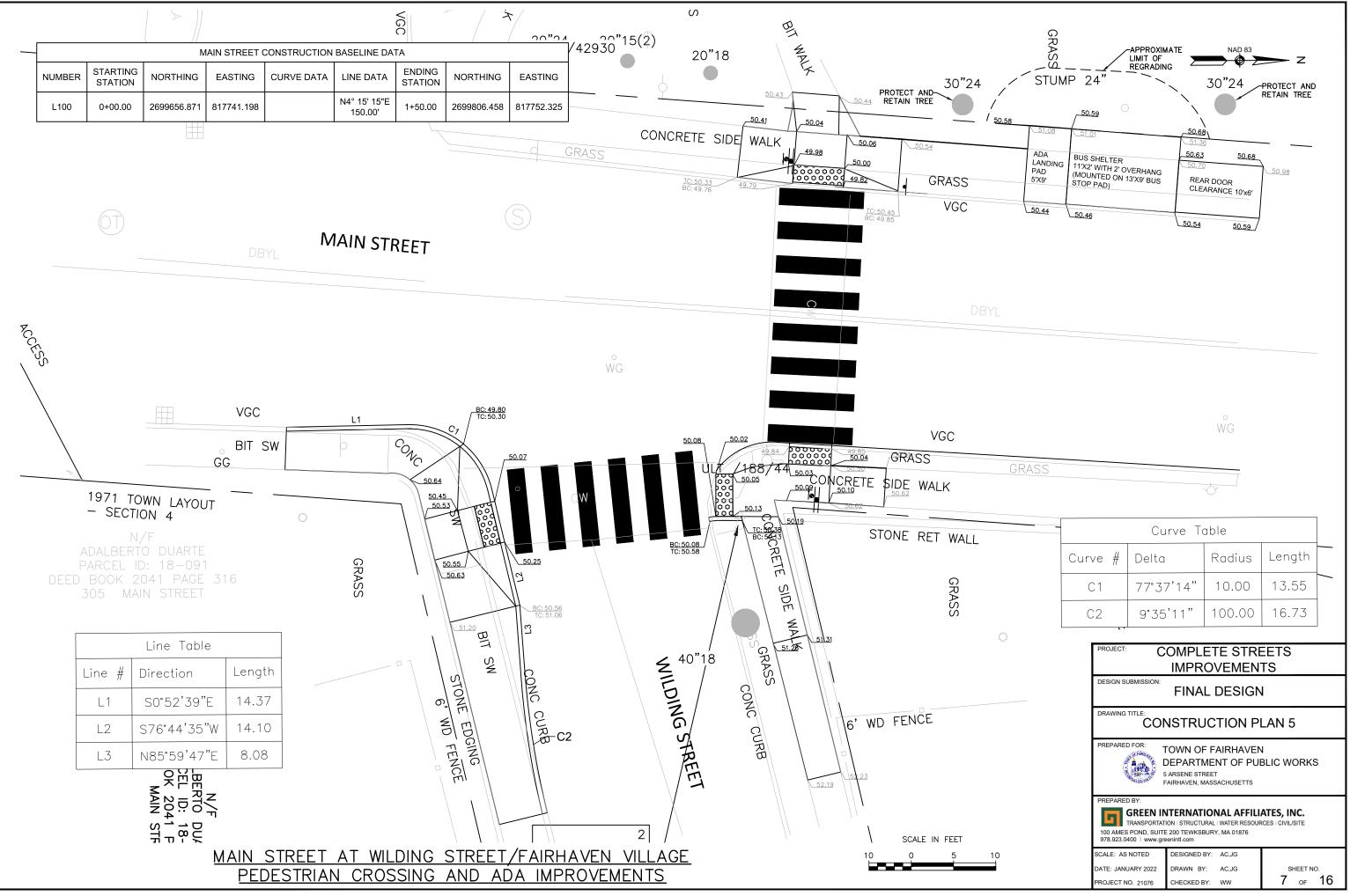
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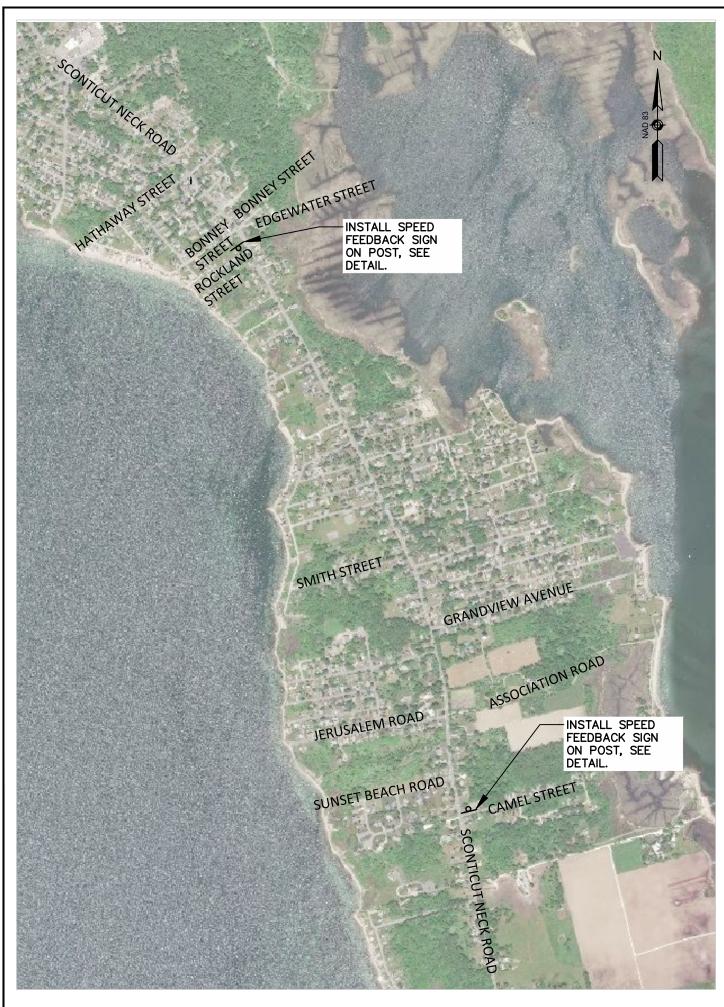
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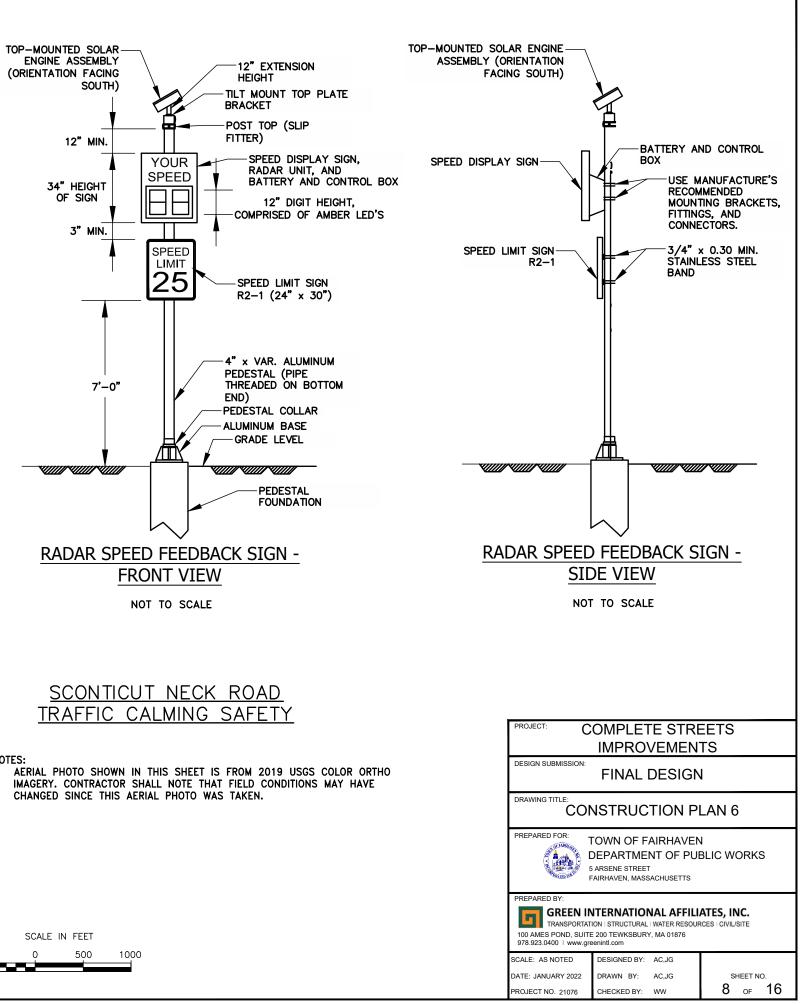
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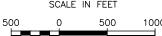
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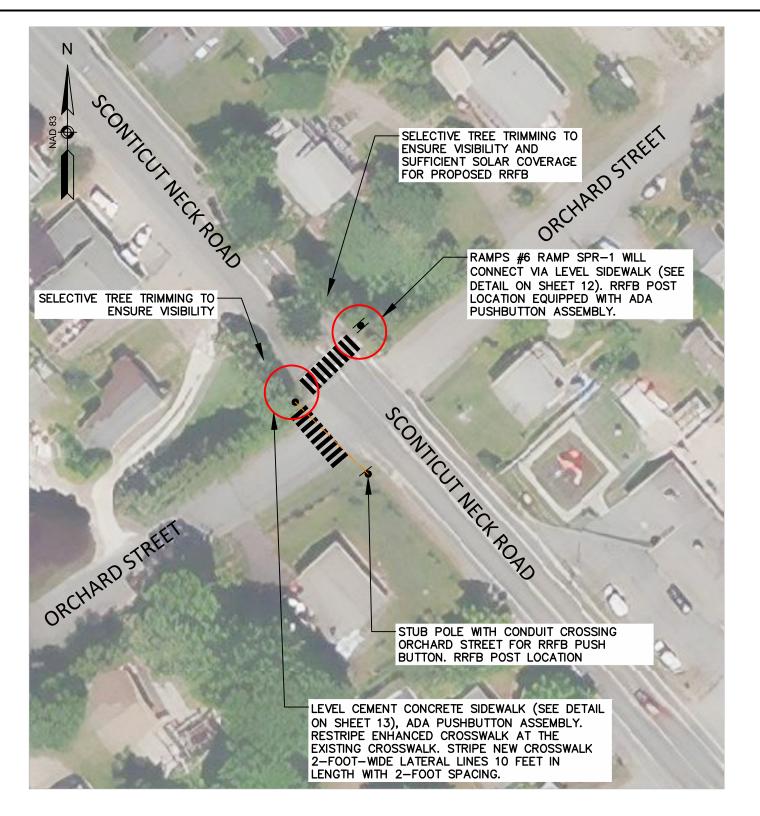




NOTES:

1.





#### ORCHARD STREET ENHANCED CONNECTION TO LITTLE BAY EXTENSION BIKE PATH

#### NOTES:

1. AERIAL PHOTO SHOWN IN THIS SHEET IS FROM 2019 USGS COLOR ORTHO IMAGERY. CONTRACTOR SHALL NOTE THAT FIELD CONDITIONS MAY HAVE CHANGED SINCE THIS AERIAL PHOTO WAS TAKEN.

#### LEGEND:



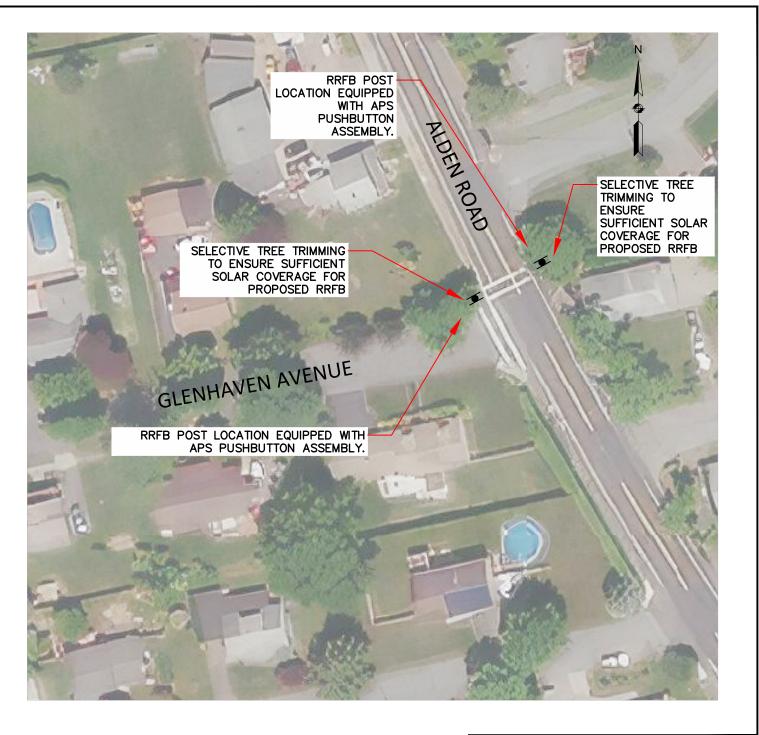
**IIIIIII** = APPROX. NEW OR RESTRIPED CROSSWALK

```
• = APPROX. RRFB LOCATION
```

-- = APPROX. CONDUIT CONNECTION

SCALE IN FEET				
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PROJECT: C	OMPLET	E STRE	ETS	
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### RRFB LOCATIONS MAIN STREET AT SOUTH STREET/PHOENIX RAIL TRAIL

RRFB LOCATIONS ALDEN ROAD AT GLENHAVEN AVENUE

LEGEND:

○ = APPROX. ADA-COMPLIANT WHEELCHAIR RAMP OR ITEM **IIIIIII** = APPROX. NEW OR RESTRIPED CROSSWALK ■ = APPROX. RRFB LOCATION







#### SHARED STREETS ROJECT: **IMPROVEMENTS**

DESIGN SUBMISSION: FINAL DESIGN

#### DRAWING TITLE:

#### **CONSTRUCTION PLAN 1**



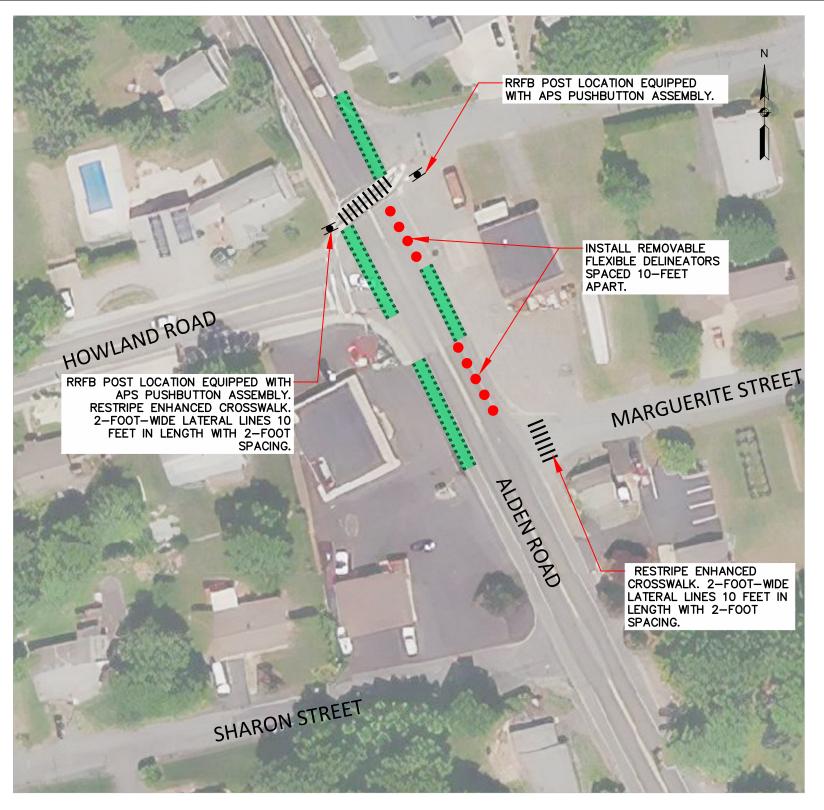
TOWN OF FAIRHAVEN DEPARTMENT OF PUBLIC WORKS 5 ARSENE STREET FAIRHAVEN, MASSACHUSETTS

#### PREPARED BY

## GREEN INTERNATIONAL AFFILIATES, INC.

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### RRFB, WHEELCHAIR RAMP AND CROSSWALK LOCATIONS ALDEN ROAD BETWEEN MANUEL STREET AND HOWLAND ROAD

NOTES:

- 1. AERIAL PHOTO SHOWN IN THIS SHEET IS FROM 2019 USGS COLOR ORTHO IMAGERY. CONTRACTOR SHALL NOTE THAT FIELD CONDITIONS MAY HAVE CHANGED SINCE THIS AERIAL PHOTO WAS TAKEN.
- MAY HAVE CHANGED SINCE THIS AERIAL PHOTO WAS TAKEN.
  2. ADJUST EXISTING GAS GATE FRAME AND COVER WITHIN SIDEWALK AT ALDEN ROAD AND MANUEL STREET, CONTRACTOR SHALL ENSURE GAS GATE FRAME AND COVER ARE FLUSH WITH THE SURFACE OF THE LEVEL LANDING AREA FOR THE WHEELCHAIR RAMP.

	SCALE	IN FEET	
30	0	30	60

#### SHARED STREETS IMPROVEMENTS

DESIGN SUBMISSION:

PROJECT:

FINAL DESIGN

#### CONSTRUCTION PLAN 2

PREPARED FOR:

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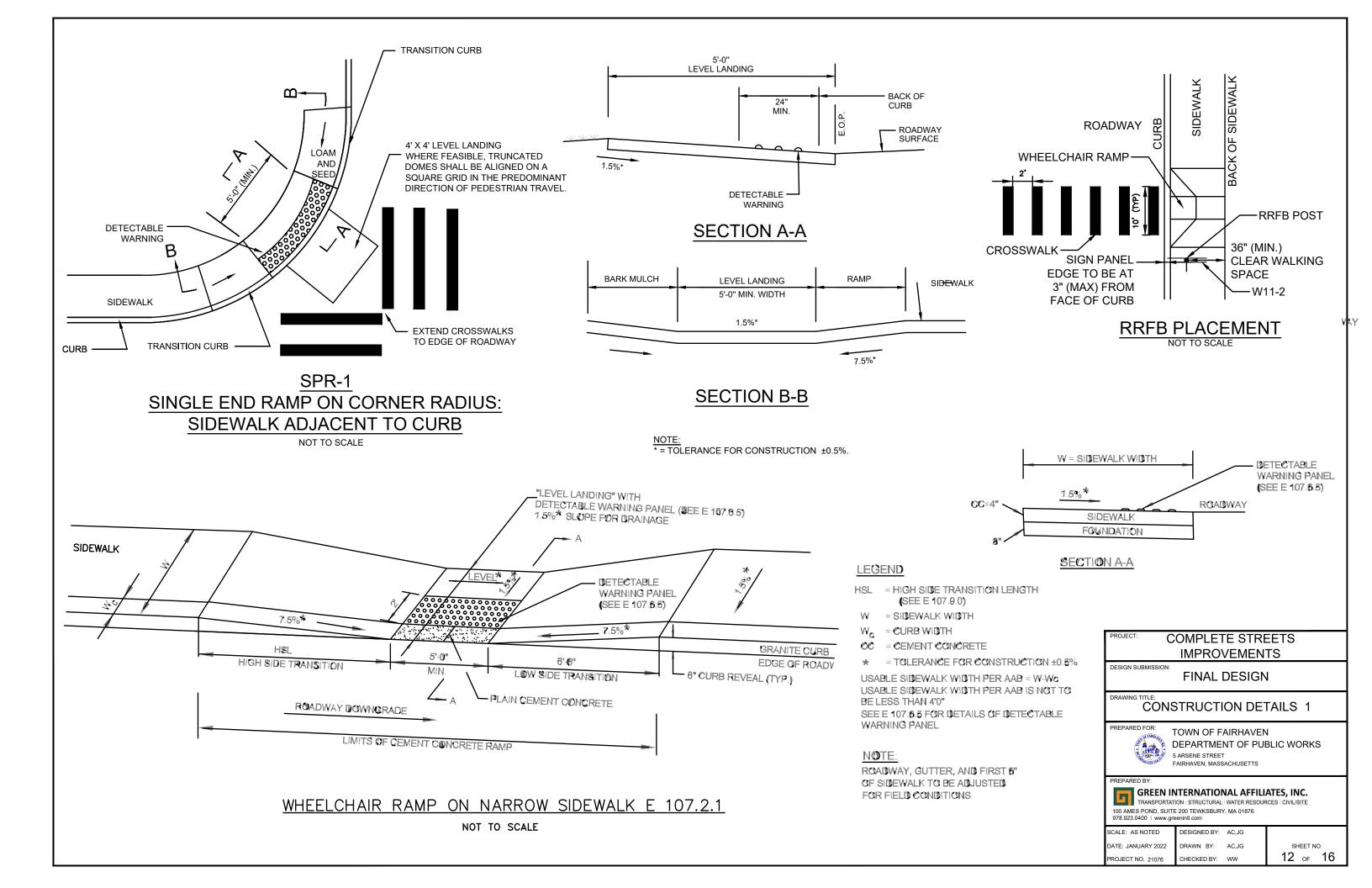


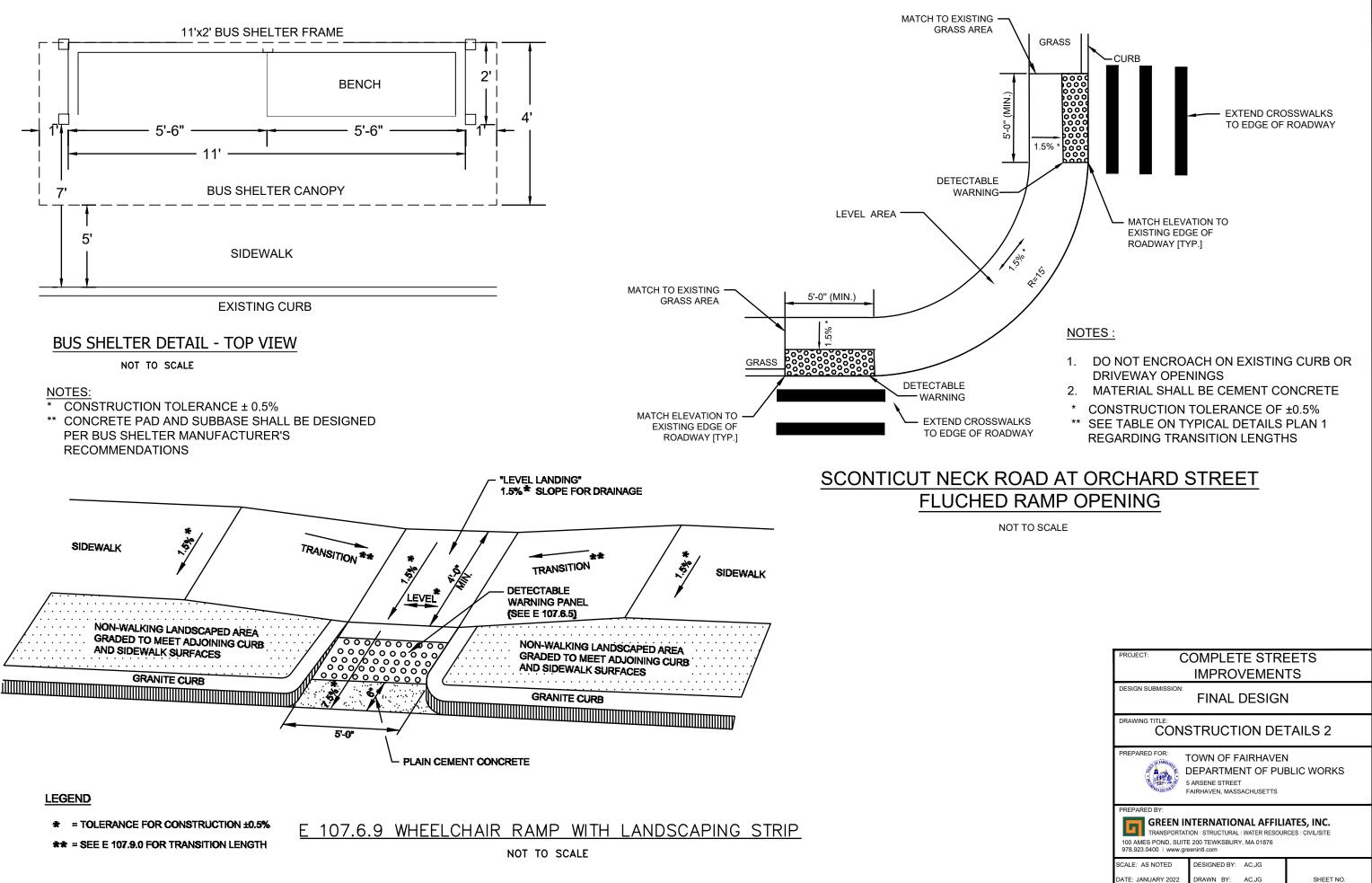
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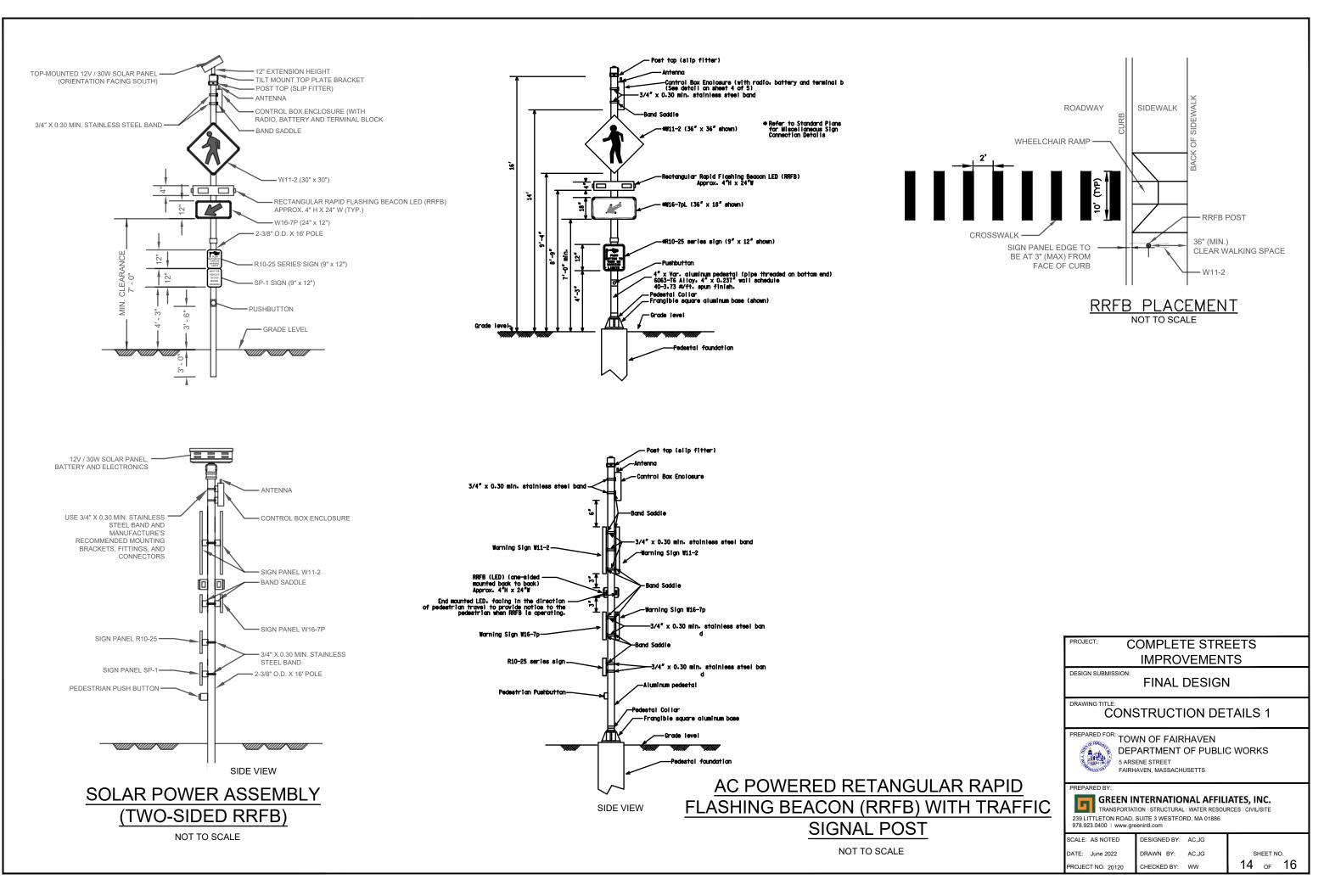
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DATE: June 2022	DRAWN BY: AC,JG	SHEET NO.		
PROJECT NO. 20120	CHECKED BY: WW	11 of 16		



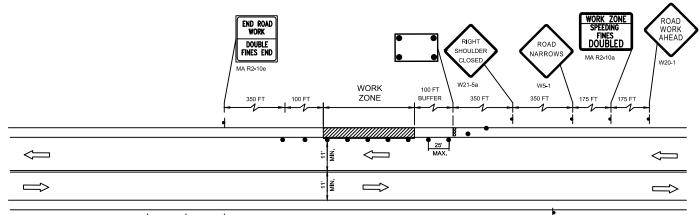


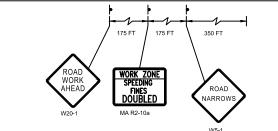
PROJECT: COMPLETE STREETS IMPROVEMENTS			
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PREPARED FOR: TOWN OF FAIRHAVEN DEPARTMENT OF PUBLIC WORKS 5 ARSENE STREET FAIRHAVEN, MASSACHUSETTS			
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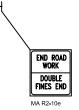


#### **TEMPORARY TRAFFIC CONTROL NOTES:**

- 1. MINIMUM LANE WIDTH OF 11 FEET SHALL BE MAINTAINED AT ALL TIMES.
- 2. THE CONTRACTOR SHALL NOTIFY THE TOWN OF WALPOLE TWO (2) WEEKS IN ADVANCE OF PLACING TEMPORARY TRAFFIC CONTROLS.
- 3. THESE PLANS ARE NOT INTENDED TO LIMIT THE CONTRACTOR'S APPROACH TO SCHEDULE THE WORK BUT TO OUTLINE ONE WAY OF PROGRESSING. THE CONTRACTOR IS EXPECTED TO USE KNOWLEDGE AND EXPERIENCE TO PERFORM THE WORK IN THE MOST EFFICIENT AND SAFE MANNER IN COMPLIANCE WITH THE DRAWINGS AND SPECIFICATIONS AND MEETING THE REQUIREMENTS OF THE ABUTTERS AND APPLICABLE STATE AND LOCAL AGENCIES.
- 4. PLACE ALL SAFETY DEVICES AND CONSTRUCTION SIGNING BEFORE ACTUAL CONSTRUCTION WORK BEGINS.
- 5. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED BASED ON FIELD CONDITIONS WITH THE APPROVAL OF THE ENGINEER.
- 6. EXISTING SIGNS NOT APPLICABLE DURING CONSTRUCTION SHALL BE TEMPORARILY COVERED DURING CONSTRUCTION OR REMOVED AND RESET UPON COMPLETION OF CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- 7. ALL SIGNS SHALL BE REFLECTORIZED, WITH REFLECTIVE SHEETING CONFORMING TO M9.30.0. ALL SIGN COLORS SHALL BE PER THE CURRENT MUTCD.
- 8. SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY MUST PASS THE CRITERIA SET FORTH IN THE NCHRP 350 REPORT.
- 9. TEMPORARY PAVEMENT MARKINGS NO LONGER APPLICABLE SHALL BE REMOVED. CONTRACTOR SHALL RECORD EXISTING PAVEMENT MARKINGS AND RESTORE ALL MARKINGS TO EXISTING CONDITIONS AT THE CONCLUSION OF CONSTRUCTION AT EACH LOCATION.
- 10. ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED IMMEDIATELY WHEN NO LONGER NEEDED.
- 11. UNLESS OTHERWISE NOTED, ALL PAVEMENT MARKINGS, SIGNS AND OTHER TRAFFIC EQUIPMENT REMOVED OR DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN CONFORMANCE WITH THE CONTRACT DOCUMENTS AND AT NO ADDITIONAL COST TO THE OWNER.
- 12. CONTRACTOR SHALL INSTALL, RENEW AND MAINTAIN ALL TRAFFIC CONTROL DEVICES AS SHOWN ON THE DRAWINGS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 13. ACCESS/EGRESS TO ALL ABUTTERS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- 14. CONTRACTOR SHALL MAINTAIN EMERGENCY PASSAGE AT ALL TIMES TO BUILDINGS WITHIN AND ADJACENT TO THE PROJECT LIMITS AS WELL AS A LARGER AREA IF AFFECTED BY CONSTRUCTION CONDITIONS. CONTRACTOR SHALL MAINTAIN 24 HOUR EMERGENCY VEHICLE ACCESS TO CONSTRUCTION AREAS.
- 15. CONTRACTOR SHALL COORDINATE WITH ABUTTERS FOR THE PROPOSED WORK AND SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF THE WORK THAT WILL REQUIRE TEMPORARY CLOSURE OF ACCESS TO THEIR PROPERTY.
- 16. THE CONTRACTOR SHALL COORDINATE THE WORK WITH ALL ABUTTING PROJECTS.
- 17. THE FIRST FIVE (5) PLASTIC DRUMS OF A TAPER SHALL BE MOUNTED WITH TYPE B LIGHTS.
- 18. THE CONTRACTOR SHALL COORDINATE WITH THE TOWN IF A DETOUR IS NEEDED FOR ANY WORK.

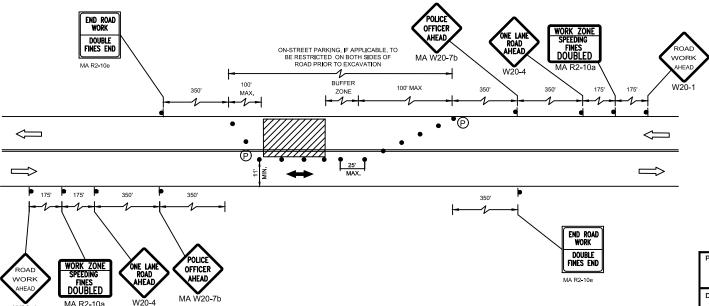






350 FT

#### TWO LANE ROAD SHOULDER CLOSURE



#### ONE LANE ALTERNATING TRAFFIC



PROJECT: C	OMPLET	E STRE	EETS
	IMPRO	VEMEN	TS
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DRAWING TITLE:	C MANA	GEMEN	T PLAN 1
PREPARED FOR: TOWN OF FAIRHAVEN DEPARTMENT OF PUBLIC WORKS 5 ARSENE STREET FAIRHAVEN, MASSACHUSETTS			
PREPARED BY:			
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ROJECT NO. 21076

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