



HOWARD STEIN HUDSON

Engineers + Planners

# Construction Management Plan

## 440 Granite Ave

Milton, MA 02186

**Prepared for**  
Town of Milton

**Developer**  
Oranmore Enterprises, LLC

**Construction Manager**  
Brenco Construction Company

**Prepared by**  
Howard Stein Hudson

**Date**  
March 30, 2023





## General Information

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On behalf of Oranmore Enterprises, LLC (The Developer) and Brenco Construction Company (The Contractor), in collaboration with Howard Stein Hudson (HSH), the attached Construction Management Plan (CMP) has been developed for review and approval by the Town of Milton. This CMP includes the following:

- Written agreement describing construction activities;
- Construction Management Plans, *dated March 30, 2023*, and;
- Construction Schedule.

**Developer:** Brenco Construction / Oranmore Enterprises, LLC  
Michael Moore  
36 Central Ave Unit 2C  
Milton, MA 02186  
617-259-5166

**Contractor:** Brenco Construction Company  
Michael Moore  
36 Central Ave Unit 2C  
Milton, MA 02186  
617-296-4548

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## Project Description

The Project is located at 440 Granite Avenue in Milton, MA. The proposed mixed used, multi-unit residential and commercial building will consist of a 4-story, residential building with underground parking. The site is bound by residential and commercial buildings to the north, Mechanic St to the east, and Granite Ave to the west and south.



# Construction Phasing and Scheduling

To minimize impacts on the surrounding roadway network and to provide a safe pedestrian environment, it is expected that construction would occur in three phase:

- 1) Site Demolition
- 2) Site Excavation and Concrete Foundation
- 3) Structural, Interior Fit-Out, & Exterior Facade

## WORK HOURS

| Work Period               | Time Period       |
|---------------------------|-------------------|
| Typical (Monday – Friday) | 7:00 AM – 6:00 PM |
| Saturday                  | 7:00 AM – 6:00 PM |

It is expected that the overall construction duration should last approximately 20 months. If night work or weekend work becomes necessary, approval shall be obtained from the Town of Milton and other relevant departments.

## Phase I: Site Demolition (ref. CMP-006)

Phase I involves the demolition of the existing structures. The Demo GC will perform a pre-existing survey on neighbor's property - 23 Mechanic St, The Demolishing will be performed by a large Excavator and the material will be loaded into a dumpster and removed from Site. The site will be surrounded by 72" chain link fence on the north side of the site. Along the south and east side of the site on Mechanic Street and Granite Ave, temporary concrete barriers MASH TL-2 with 36-inch chain link fence will be utilized. For pedestrian safety, pedestrians will be detoured onto the east side of Mechanic St at Adams Street. On Granite Ave, pedestrians will be detoured to the north along the east side of Mechanic Street to Adams Street. A minimum of 20-feet will remain on Mechanic Street throughout.

Trucks will access the site via the 20-foot swing gate A and exit via the 20-foot swing gate B on Granite Ave. On Mechanic Street, 20-foot swing gate C will be utilized to access the underground parking level once completed. Hazardous material assessment will be performed on each property and any abatement will be complete prior to removal. The dumpster will be loaded on trucks and



removed from site, via Mechanic St to Granite Ave to Adams St, Bryant Ave and I-93 South. This Material will go to all State Waste in Brockton.

Dust Control will be performed by hosing water on the waste material during demolition.

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## **Phase II: Site Excavation and Concrete Foundation (ref. CMP-007)**

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During this phase, excavators, dump trucks, concrete pumps, and other support equipment will be used to excavate to the subsurface level and pour the concrete foundation. All staging including fence, barriers, pedestrian detours, and signage will remain from Phase I. Deliveries and hauling from the site will continue to occur using Granite Ave. Police detail officers will be required to assist with vehicular and pedestrian safety.

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## **Phase III: Structural, Interior Fit-Out, Exterior Facade (ref. CMP-008)**

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During this phase, boom lifts, material delivery trucks, mobile crane, and other support equipment will be used to erect the building structure, install all interior features, and construct the exterior facade. All staging including fence, barriers, pedestrian detours, and signage will remain from Phase I. Deliveries from the site will continue to occur using Granite Ave. Police detail officers will be required to assist with vehicular and pedestrian safety.

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# **Perimeter Protection/Public Safety**

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Brenco Construction Company will work to ensure the staging areas minimize impact to pedestrian and vehicular flow. Secure fencing and barricades will be used to isolate construction areas from pedestrian traffic around the site. In addition, sidewalk areas and walkways near construction activities will be well marked to protect pedestrians and ensure their safety. Proper signage as required by the Town of Milton will be installed and regularly updated as site conditions change during the construction process.

Construction procedures will be designed to meet all Occupational Safety and Health Administration (OSHA) safety standards for specific site construction activities.

Construction equipment will be staged in the basement once it is excavated, and the concrete poured. Construction worker parking has been secured at 610 Adams Street.



## Safety on Site

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All subcontractors working on site shall provide and maintain all safety measures, procedures, and documentation as required by governing agencies. The jobsite will be enclosed by temporary fencing. Brenco Construction Company will meet with Town Officials to review the proposed traffic management plan to ensure acceptance and compliance with local jurisdiction. Prior to the start of work by any subcontractor a Hazardous Risk Assessment Plan is reviewed. During this review all potential hazardous work requirements and the safety plans required to mitigate these risks are confirmed. Construction procedures will be designed to meet all Occupational Safety and Health Administration (OSHA) safety standards for specific site construction activities. With the support of Brenco Construction Company, all subcontractors will implement and manage their own Health and Safety program for the project. All site personnel will be subject to follow the safety orientation and identification guidelines and processes established by Brenco Construction Company.

Access to the site for emergency vehicles will be maintained at all times with a dedicated and marked point of access. All other site points of access will be maintained for a secondary access as needed. The proposed site logistic and traffic plans are designed to isolate the construction while providing safe access for pedestrians and automobiles during normal day to day activities and emergencies.

A trailer will not be located on site and upon completion of the structural steel, Brenco Construction Company will have a site office in the new commercial space.

## Abutter and Agency Coordination

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Brenco Construction Company recognizes the challenges of building construction in an urban setting and the importance of responding to the needs of adjacent businesses and residents. The abutting properties shall be informed of the scheduled start of construction and will be updated on the development during its construction as needed.

As appropriate, Brenco Construction Company, has coordinated construction activities with the Town of Milton and other on-going construction projects in the area to help minimize the impacts to the community.



## Emergency Vehicle Access

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Access to the site for emergency vehicles will be maintained at all times. The proposed staging plan is designed to isolate the construction while providing safe access for pedestrians and automobiles during normal day to day activities and emergencies.

All construction material delivery trucks will be loaded and unloaded inside the construction fence throughout the course of the project. Trucks and equipment will follow the designated truck route and be staged at the designated areas on the CMP.

## Utility Connections

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There will be multiple utility connections on this project, all utilities will be located onsite, on Granite Ave, or Mechanic Street. This will necessitate coordination with each respective utility company and the Town of Milton Department of Public Works. Road closures and street opening permits will be submitted for approval accordingly prior to the start of each task. All right-of-way utility work will conform to the Town of Milton's utility standards and moratorium dates respectfully and as indicated per Town of Milton.

Police detail officers should be present to facilitate traffic for work within the Town of Milton right of way. Upon completion of each work period, the utility trenches shall be steel-plated, and the lanes will be reopened to daily traffic. If work occurs during the winter moratorium, utility trenches shall be backfilled, compacted, and paved with hot mix asphalt at the end of each workday. Steel plates shall not be used during the winter moratorium.

## Truck Movements During Construction

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Trucks are needed for material removal and delivery from and to the site as the project proceeds. Truck traffic related to this construction site shall vary considerably throughout the construction period.

Any deliveries that need to be completed outside of the work period will need direct approval from the Town of Milton prior to deliveries.

Trucks coming to and from the site are required to use major arterial roadways or highways and not local streets. The selection of proposed truck routes is based on the following criteria:



- Minimizing truck activity in the residential neighborhoods;
- Designating specific roads where trucks are permitted; and
- Providing access to and from the major arteries (e.g. Interstate 93, 90)

A detailed Truck Routing Plan is shown on Sheet CMP-012 and the individual truck maneuvers for entering and exiting the site are shown on Sheets CMP-009 and CMP-011 of the attached CMP.

## Dust Control

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Construction activities generate fugitive dust that will result in localized increases in airborne particulate levels. To reduce emissions of fugitive dust and minimize impacts on the local environment, strictly enforced mitigation measures will be employed, including:

- Wetting agents will be used regularly to control and suppress dust that may come from construction activities.
- Trucks used for the transportation of construction debris will be covered before exiting the project site.
- Streets and sidewalks will be cleaned regularly using mechanical street sweepers to minimize accumulations.
- Trucks tires shall be hosed down prior to entering public streets.

## Snow Removal

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Brenco Construction Company shall be responsible for removing snow from all public sidewalk and temporary pedestrian routes affected by their work. This will be done daily and continuously to ensure that all sidewalks are clear of snow and ice. Under no condition will the removed snow be disposed of on public property.

## Rodent Control

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Town of Milton has declared that the infestation of rodents in the Town is a serious problem. In order to control this infestation, the Town enforces the requirements established under the Massachusetts State Sanitary Code, Chapter 11, 105 CMR 410.550 and the State Building Code, Section 108.6.



Brenco Construction Company will implement a rodent control program to be administered by a licensed pest control contractor. Rodent control measures will be in-place prior to, during, and following construction activities. The program will include performance of extermination and control procedures on a bi-weekly basis, and the placement of tamper resistant bait boxes around the perimeter of the site.

## Emergency Contacts

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A 24-hour emergency contact list will be provided to all parties involved in the project prior to start of construction and maintained throughout construction.

***Oranmore Enterprises, LLC***

Contact: Michael Moore 617-259-5166

***Brenco Construction Company***

Contact: Seamus Moore 617-719-2110





# Signatures and Approvals

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**Submitted By:**

Michael Moore  
Brenco Construction Company

**Approved By:**

Town of Milton

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Signature

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Signature

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Date

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Date

# CONSTRUCTION MANAGEMENT PLANS

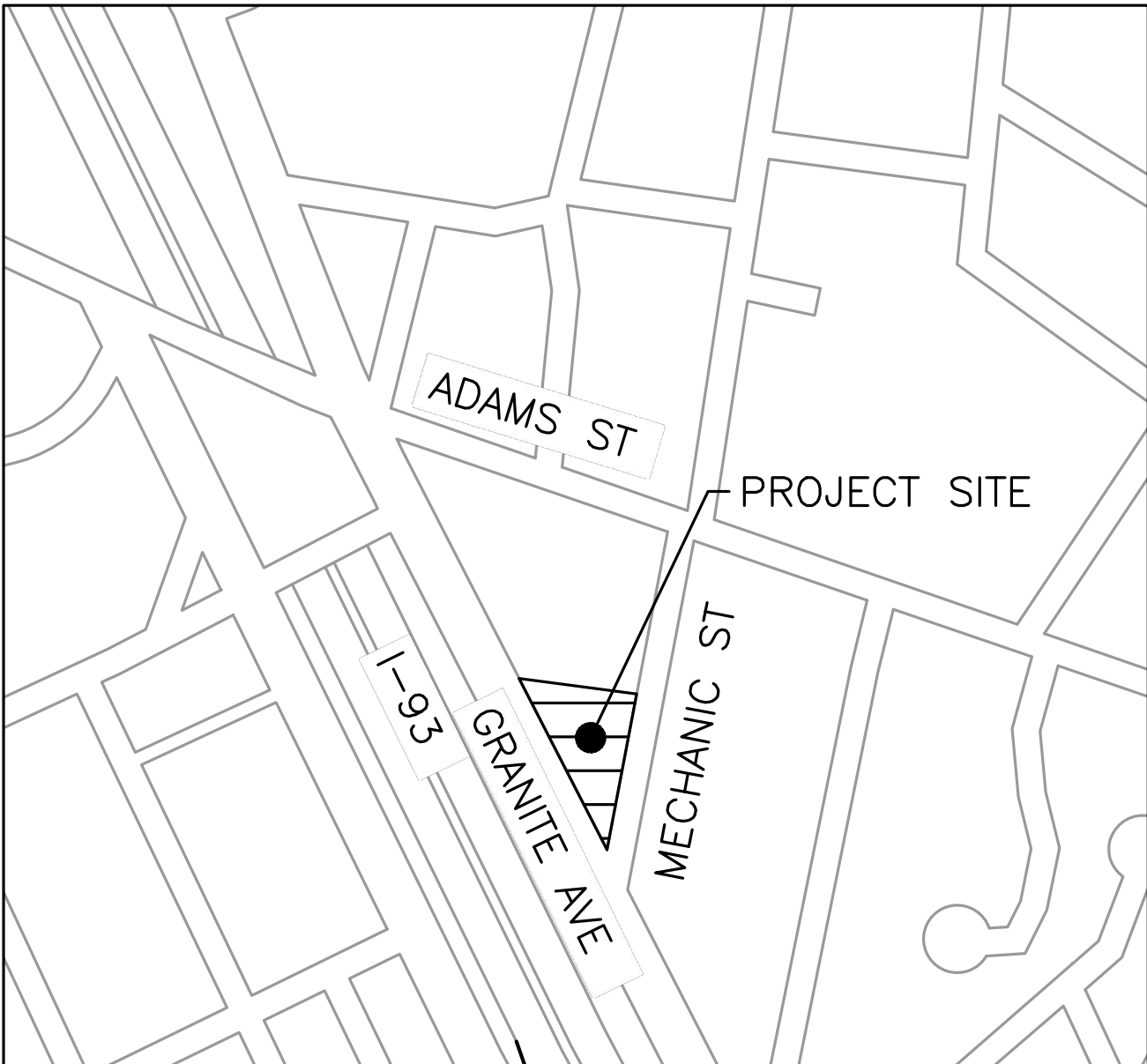
## FOR

### 440 GRANITE AVE

### MILTON, MA.

SHEET INDEX

|         |   |
|---------|---|
| CMP-001 | COVER SHEET                                     |
| CMP-002 | GENERAL NOTES, LEGEND, AND SCHEDULE             |
| CMP-003 | TEMPORARY TRAFFIC CONTROL DEVICES I             |
| CMP-004 | TEMPORARY TRAFFIC CONTROL DEVICES II            |
| CMP-005 | EXISTING CONDITIONS                             |
| CMP-006 | SITE DEMOLITION                                 |
| CMP-007 | SITE EXCAVATION AND CONCRETE FOUNDATION         |
| CMP-008 | STRUCTURAL, INTERIOR FIT-OUT, & EXTERIOR FACADE |
| CMP-009 | TRUCK TURNING MANEUVERS I                       |
| CMP-010 | TRUCK TURNING MANEUVERS II                      |
| CMP-011 | TRUCK TURNING MANEUVERS III                     |
| CMP-012 | TRUCK ROUTING PLAN                              |
| CMP-013 | SIGN SUMMARY                                    |



LOCUS MAP  
1"=250'

ALL WORK SHALL CONFORM TO THESE PLANS, THE 2020 MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES (ENGLISH EDITION), THE 2017 CONSTRUCTION STANDARDS, THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD) WITH LATEST REVISIONS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE AMERICAN STANDARD FOR NURSERY STOCK CURRENT EDITION (ANSI Z-60.1-2004).



**HOWARD STEIN HUDSON**  
11 Beacon Street, Suite 1010  
Boston, MA 02108  
www.hshassoc.com

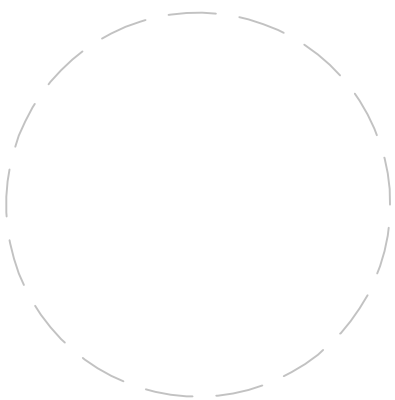
PREPARED FOR:



440 GRANITE AVE  
MILTON, MASSACHUSETTS, 02186  
NORFOLK COUNTY

REVISIONS:

| NO | BY | DATE | DESCRIPTION |
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ISSUED FOR  
CONSTRUCTION

COVER

|                 |                |
|-----------------|----------------|
| DATE:           | MARCH 30, 2023 |
| PROJECT NUMBER: | 2021153        |
| DESIGNED BY:    | M.KHARAKH      |
| DRAWN BY:       | M.KHARAKH      |
| CHECKED BY:     | K.MARTIN       |

CMP-001



GENERAL NOTES

1. THESE PLANS ARE NOT INTENDED TO LIMIT THE CONTRACTORS RIGHT 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 SAFE AND EFFICIENT MANNER IN COMPLIANCE WITH THE DRAWINGS AND SPECIFICATIONS AND MEETING THE REQUIREMENTS OF THE TOWN OF MILTON.
2. CONTRACTOR SHALL SUBMIT FOR APPROVAL BY THE CITY, CONSTRUCTION MANAGEMENT PLANS FOR ANY WORK OUTSIDE OF THE WORK ZONES INDICATED IN THESE DRAWINGS.
3. ALTERNATIVE PHASING OR MODIFICATIONS TO ANY ASPECT OF THE CONSTRUCTION MANAGEMENT PLANS AND THE CONSTRUCTION STAGING PLANS WILL BE SUBJECT TO REVIEW FOR ACCEPTANCE BY THE CITY PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH THE SUBMISSION AND REVIEW OF ALTERNATIVE CONSTRUCTION MANAGEMENT PLANS AND CONSTRUCTION STAGING PLANS, INCLUDING PRESENTATION TO THE CITY AND THE NEIGHBORHOOD IF NEEDED, VEHICULAR AND PEDESTRIAN TRAFFIC MODELING, LEVEL OF SERVICE (LOS) ANALYSES, AND OTHER ASSOCIATED EFFORTS. ALTERNATIVE CONSTRUCTION MANAGEMENT AND CONSTRUCTION STAGING PLANS SHALL NOT CAUSE AN INTERFERENCE WITH ADJACENT CONTRACTS OR DELAY THE SCHEDULE OR INCREASE THE COST OF THIS OR ANY ADJACENT CONTRACTS. LEVEL OF SERVICE ANALYSIS SHALL BE DEFINED BY THE "HIGHWAY CAPACITY MANUAL."
4. THE CONSTRUCTION MANAGEMENT PLANS REQUIRE THAT SPECIFIC SIDEWALK WIDTHS BE MAINTAINED DURING THE VARIOUS STAGES OF CONSTRUCTION TO FACILITATE ACCEPTABLE PEDESTRIAN LEVEL OF SERVICE (LOS) MOVEMENTS ALONG TRAVEL WAYS TO AND FROM ABUTTING BUILDING AND BUSINESSES WITHIN THE PROJECT LIMITS. THE MINIMUM SIDEWALK WIDTHS SHOWN ON THE TRAFFIC MANAGEMENT PLANS ARE BASED ON ENGINEERING ANALYSIS AND ARE LOCATED ON THE PLANS AROUND TEMPORARY FIXED BARRICADED WORK ZONES AT SITE SPECIFIC POINTS OF CONSTRUCTION. THE SIDEWALK WIDTHS SHOWN ON THE CONSTRUCTION MANAGEMENT PLANS SHALL NOT BE DEVIATED FROM WITHOUT THE PERMISSION OF THE CITY. WHEN SPECIFIC DIMENSIONS ARE NOT SHOWN, THE CONTRACTOR SHALL MAINTAIN A MINIMUM 4-FOOT PASSAGE.

A. CONTRACTOR SHALL PROVIDE AND MAINTAIN A TEMPORARY PEDESTRIAN ROUTE ACCESSIBLE TO DISABLED PERSONS AROUND BLOCKAGES TO AN EXISTING PEDESTRIAN ROUTE (E.G., SIDEWALKS, CROSSWALKS, PEDESTRIAN CURB RAMPS, ETC.). BLOCKAGES INCLUDE, BUT ARE NOT LIMITED TO, CONSTRUCTION WORK, EXCAVATIONS, EQUIPMENT AND VEHICLES, TEMPORARY WATER AND UTILITY LINES.

B. SIDEWALK AREAS SHALL REMAIN OPEN AND FREE FROM SAFETY CONTROL DEVICES AND CONSTRUCTION DEBRIS THROUGHOUT THE DURATION OF THE CONSTRUCTION. PEDESTRIAN DETOURING SHALL NOT OCCUR UNLESS APPROVED BY THE CITY.
5. CONTRACTOR SHALL SECURE WORK AREAS TO ENSURE PUBLIC SAFETY AND CONVENIENCE. THIS SHALL INCLUDE ENSURING THAT ALL EXCAVATIONS ARE PROTECTED AT ALL TIMES.
6. ALL CONSTRUCTION SIGNING, DRUMS, BARRICADES AND OTHER DEVICES SHALL CONFORM WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS AMENDED AND MILTON DEPARTMENT OF PUBLIC WORKS SIGN STANDARDS.
7. CHANNELIZATION WILL BE ACCOMPLISHED THROUGH THE USE OF RECTORZIED PLASTIC DRUMS OR APPROVED EQUAL IN ACCORDANCE WITH THE MUTCD.
8. CONTRACTOR SHALL COORDINATE WITH THE CITY TO ACCOMMODATE ACCESS NEEDS OF ABUTTING PROPERTIES NOT SPECIFIED IN THE PLANS.
9. CONTRACTOR SHALL MAINTAIN EMERGENCY PASSAGE AT ALL TIMES TO BUILDINGS WITHIN THE PROJECT LIMITS. CONTRACTOR SHALL MAINTAIN 24-HOUR EMERGENCY VEHICLE ACCESS TO AND THROUGH CONSTRUCTION AREAS.

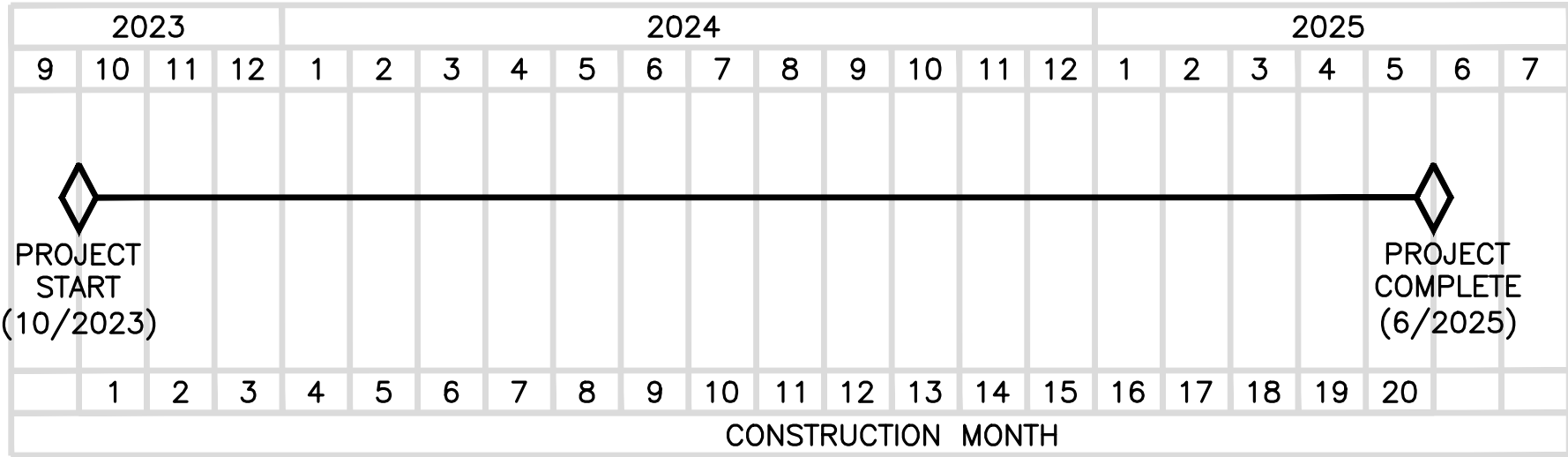
10. CONTRACTOR SHALL PROVIDE POLICE DETAILS DURING WORK HOURS FOR TRAFFIC CONTROL.
11. SAFETY SIGNS PROPOSED FOR LOCATIONS OTHER THAN ERECTED ON TEMPORARY BARRICADES MAY BE ERECTED ON EXISTING LIGHTPOLES, SIGN POSTS, AND OTHER EXISTING FEATURES AS APPROVED BY THE CITY.
12. LOCATIONS OF SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD. THE CONTRACTOR SHALL ENSURE THAT SIGNS ARE PLACED SO MAXIMUM VISIBILITY IS OBTAINED.
13. EXISTING SIGNAGE WHICH CONFLICTS WITH PROPOSED SIGNING SHALL BE REMOVED AND STACKED OR COVERED AS DETERMINED BY THE CITY. IF NECESSARY, AT THE END OF CONSTRUCTION THE CONTRACTOR SHALL RESTORE THE SIGNAGE TO ORIGINAL.
14. THE MILTON POLICE, FIRE, AND TRANSPORTATION DEPARTMENTS SHALL BE ADVISED OF THE SCHEDULE OF CONSTRUCTION AS WELL AS OF ANY DETOURS OR ALTERNATE ROUTES.
15. CONTRACTOR SHALL NOT REMOVE PARKING METER HEADS AND SHALL COORDINATE WITH TOWN OF MILTON FOR THEIR REMOVAL.
16. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE CITY FOR RESOLUTION OF THE CONFLICT.
17. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF ELECTRIC, TELEPHONE, AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES AT NO ADDITIONAL COST TO THE CITY. IF THE CONTRACTOR ADJUSTS UTILITY COVERS IT SHALL BE DEEMED PART OF THE WORK AND THERE WILL BE NO ADDITIONAL COMPENSATION.
18. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE NOTIFIED, INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN, (SEE CHAPTER 370, ACTS OF 1963, MASSACHUSETTS) PRIOR TO EXCAVATING, BLASTING, INSTALLING, BACKFILLING GRADING, PAVEMENT RESTORATION, OR REPAVING.
19. THE ACCURACY AND COMPLETENESS OF UNDERGROUND UTILITIES ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION, SIZE, TYPE, ETC. OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY THE WORK. AT LEAST 72 HOURS BEFORE DIGGING BEGINS, THE CONTRACTOR IS REQUIRED TO CALL DIG SAFE AT (888)344-7233. ALL CITY OWNED UTILITY STRUCTURES WITHIN AREAS AFFECTED BY THE WORK SHALL BE ADJUSTED TO NEW LINE AND GRADE AS DIRECTED BY THE ENGINEER. ANY UTILITY POLES AND/OR GUY POLES WITHIN AREAS AFFECTED BY THE WORK SHALL BE REMOVED AND RESET BY THE RESPECTIVE UTILITY COMPANY. ALTERATIONS TO UTILITIES NOT OWNED BY THE CITY SHALL BE MADE BY THE RESPECTIVE UTILITY OWNERS.
20. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR CONSTRUCTION MANAGEMENT EFFORTS OUTSIDE OF THE SITE PLANS AND TO COMPLY WITH CONDITIONS OUTLINED WITHIN THE PLANS AND SPECIFICATIONS USING APPROVED METHODS.
21. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS, INCLUDING STAGING AREAS, SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
22. THE CONTRACTOR IS HEREBY NOTIFIED THAT ADDITIONAL WORK WITHIN THE PROJECT LIMITS MAY BE PERFORMED BY OTHERS.
23. THE CONTRACTOR SHALL FIELD VERIFY CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION.

24. THE CONTRACTOR SHALL VERIFY PROPERTY LIMITS PRIOR TO CONSTRUCTION AND PLACE ANY TEMPORARY OR NEW EQUIPMENT WITHIN THE PROJECT LIMITS OR THE TOWN OF MILTON'S RIGHT OF WAY.
25. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT FOR REVIEW A DETAILED SCHEDULE OF OPERATIONS IN ADDITION TO OTHER CONTRACT REQUIREMENTS TO THE MILTON DEPARTMENT OF PUBLIC WORKS.
26. ANY WORK ASSOCIATED WITH THIS CONSTRUCTION MANAGEMENT PLAN SHALL BE PERFORMED IN ACCORDANCE WITH THE MILTON PUBLIC WORKS DEPARTMENT STANDARD SPECIFICATIONS AND DRAWINGS MASSDOT STANDARD SPECIFICATIONS AND DRAWINGS; THE PLANS AND THE SPECIAL PROVISIONS. WHERE CONFLICTS EXIST, THE MILTON DPW SPECIFICATIONS SHALL GOVERN.
27. NO EXISTING PUBLIC UTILITY STRUCTURES SHALL BE ABANDONED AND/OR DISMANTLED WITHOUT AUTHORIZATION FROM THE CITY.
28. THE CONTRACTOR SHALL DISPOSE OF ALL WASTE MATERIAL IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS AT HIS OWN EXPENSE.
29. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE STREET LIGHTING ADJACENT TO THE PROJECT, FOR THE DURATION OF THE PROJECT, AS APPROVED BY THE CITY. THE CONTRACTOR SHALL ENSURE THAT STREET LIGHTING SERVICE WILL NOT BE INTERRUPTED AND THAT STREET LIGHTING WILL BE OPERATIONAL AT THE END OF EACH WORKDAY.
30. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC, OR APPROVED EQUAL, AND MEET BTD SPECIFICATIONS. IF NECESSARY, AT THE END OF CONSTRUCTION THE CONTRACTOR SHALL RESTORE THE PAVEMENT MARKINGS TO ORIGINAL.
31. THE CONTRACTOR SHALL ERADICATE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS.
32. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY TRAFFIC SIGNAL EQUIPMENT, LOOP DETECTORS, PAVEMENT MARKINGS, AND SIGNAGE DAMAGED OR TEMPORARILY REMOVED DURING CONSTRUCTION.
33. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ANY WEIGHT RESTRICTIONS ON AREA BRIDGES AND TO INSURE THAT TRAFFIC DOES NOT EXCEED WEIGHT RESTRICTIONS IF BRIDGES ARE USED.
34. AT CROSSWALK LOCATIONS AND OTHER LOCATIONS WHERE PEDESTRIAN AND/OR VEHICLE SIGHT LINES MAY BE IMPACTED BY CONSTRUCTION FENCING, THE CONTRACTOR SHALL NOT INSTALL AND SCREEN THAT MAY DIMINISH SIGHT LINES.

CMP LEGEND

- SIGN
- CONSTRUCTION GATE
- ROLLING GATE
- PERMANENT CHAIN LINK FENCE
- MOVEABLE CHAIN LINK FENCE
- CONSTRUCTION DRUM
- TRAFFIC FLOW
- PEDESTRIAN FLOW
- POLICE DETAIL
- SIGNALIZED INTERSECTION
- PORTABLE PRECAST CONCRETE BARRIER
- CHAIN LINK FENCE ON CONCRETE BARRIER
- PORTABLE PRECAST CONCRETE BARRIER WITH HANDRAIL
- TAPERED END BARRIER
- IMPACT ATTENUATOR
- WATER-FILLED TEMPORARY BARRIER
- TEMPORARY WHEELCHAIR RAMP (SIDE APRONS)
- TEMPORARY PARALLEL WHEELCHAIR RAMP
- TEMPORARY PERPENDICULAR WHEELCHAIR RAMP
- BUILDING ACCESS POINTS

BAR SCHEDULE



REVISIONS:

| NO | BY | DATE | DESCRIPTION |
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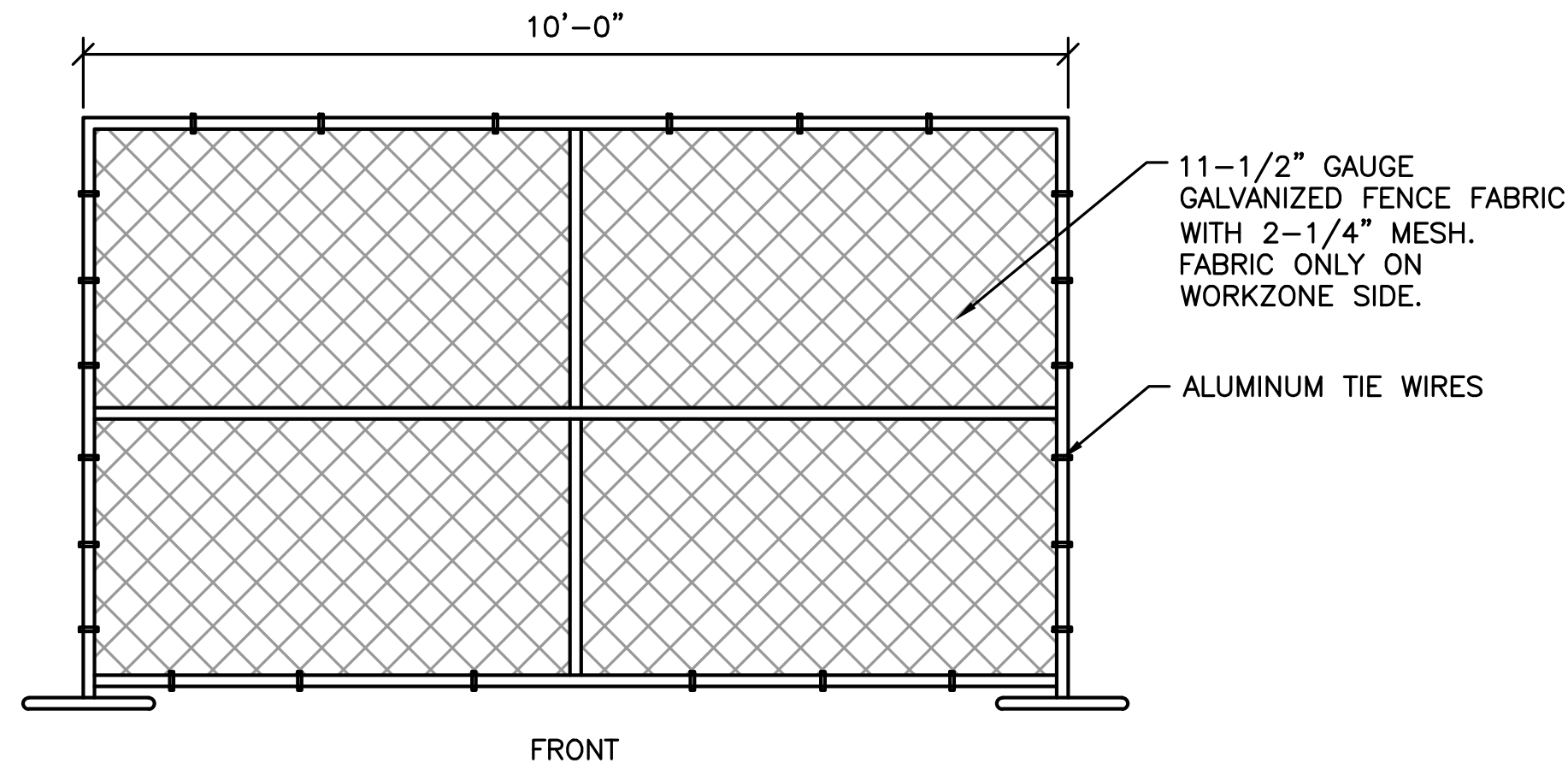
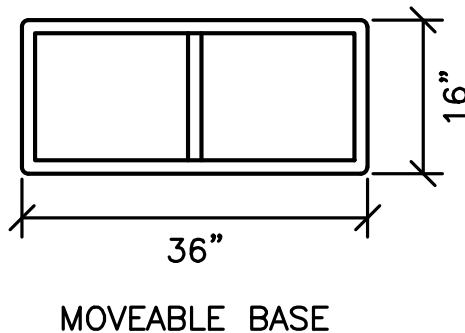
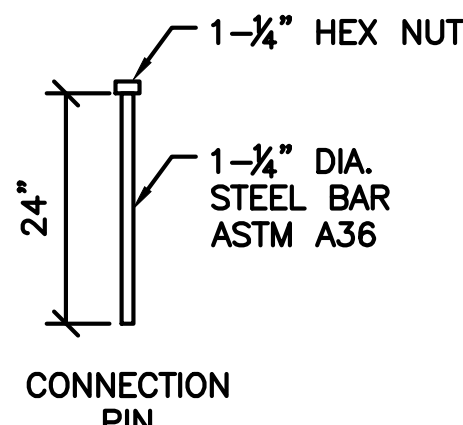
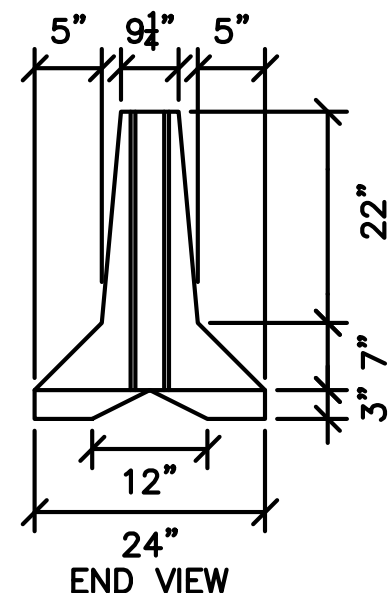
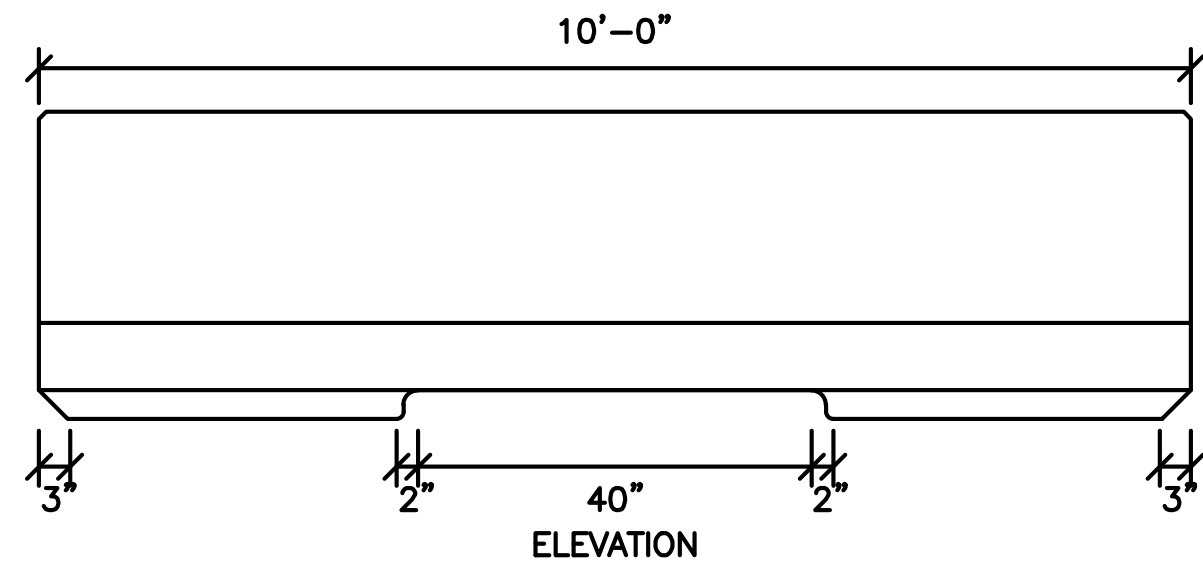
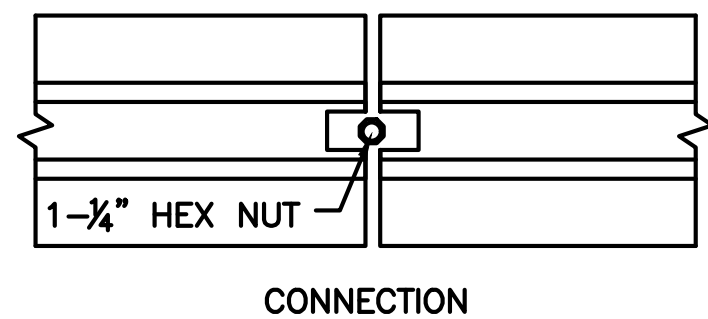
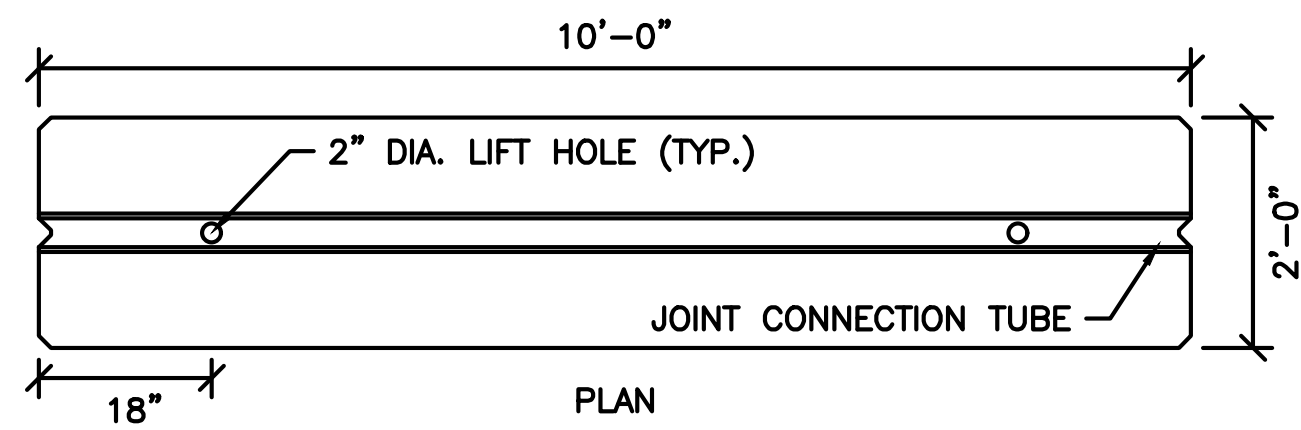
ISSUED FOR  
CONSTRUCTION

GENERAL NOTES  
LEGEND AND  
SCHEDULE

|                 |                |
|-----------------|----------------|
| DATE:           | MARCH 30, 2023 |
| PROJECT NUMBER: | 2021153        |
| DESIGNED BY:    | M.KHARAKH      |
| DRAWN BY:       | M.KHARAKH      |
| CHECKED BY:     | K.MARTIN       |

CMP-002

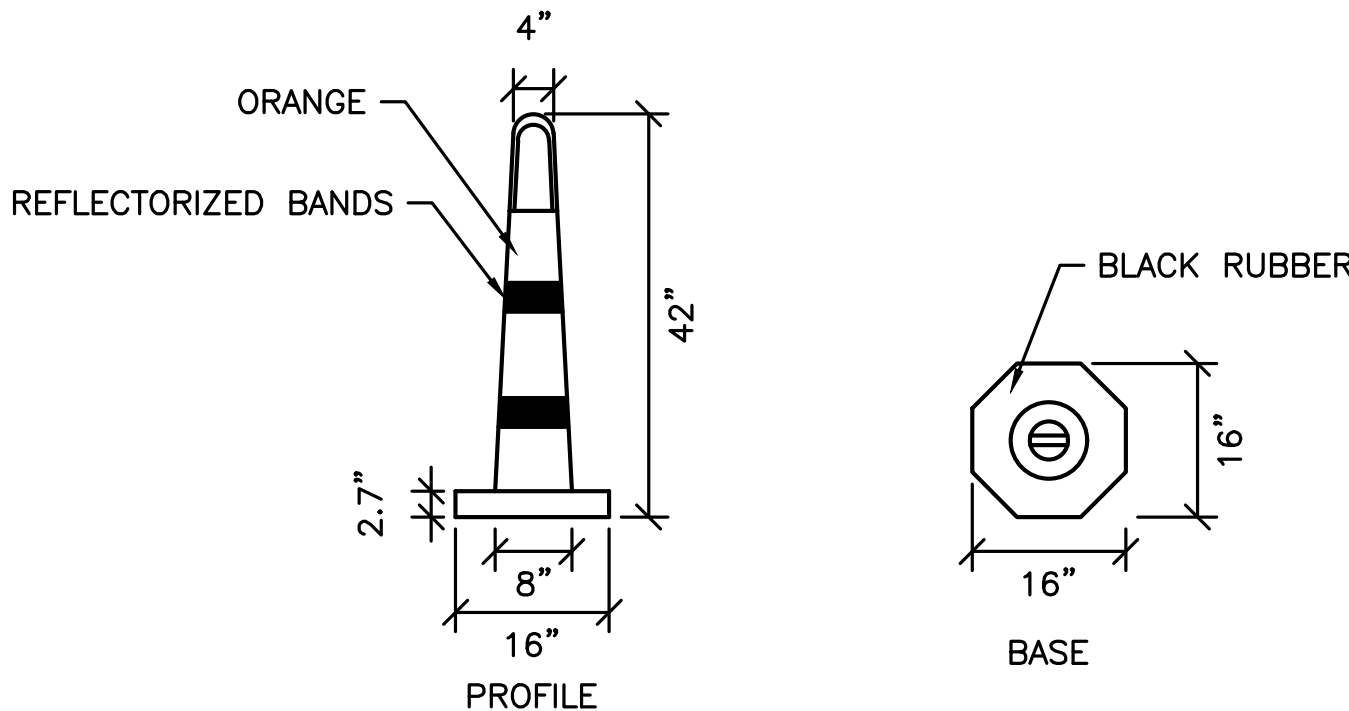




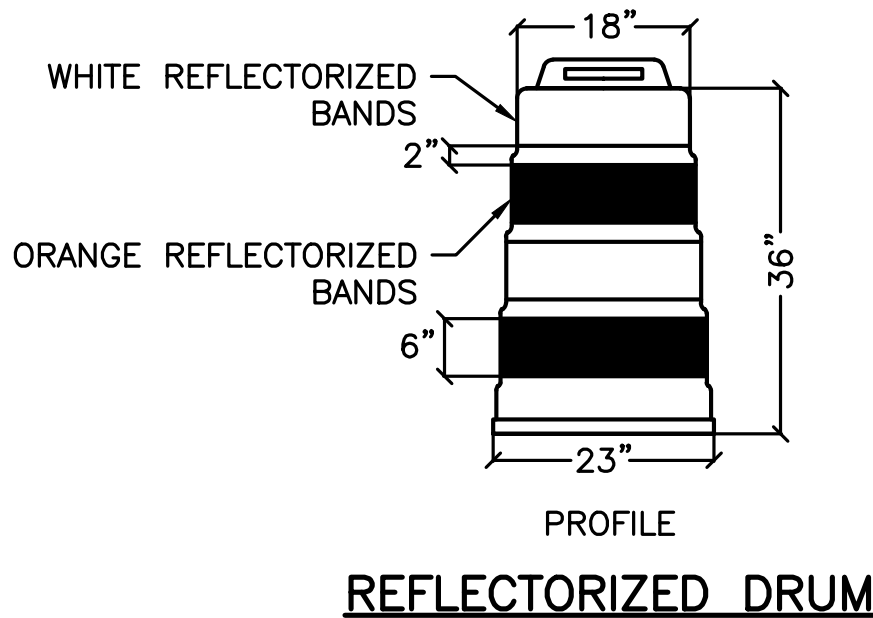
NOTE:  
A PERMANENT CHAIN LINK FENCE SHALL HAVE THE SAME SPECIFICATIONS AS SHOWN FOR A MOVEABLE CHAIN LINK FENCE, HOWEVER THE POSTS SHALL BE CORED INTO THE PAVEMENT.

TEMPORARY CONCRETE BARRIER  
MASH TL-2

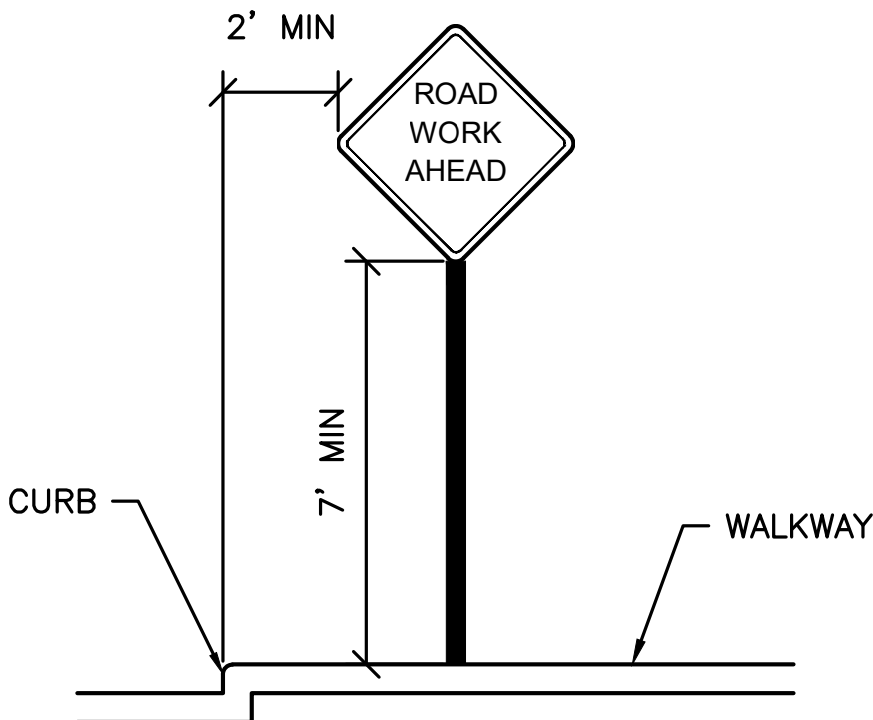
MOVABLE CHAIN LINK FENCE



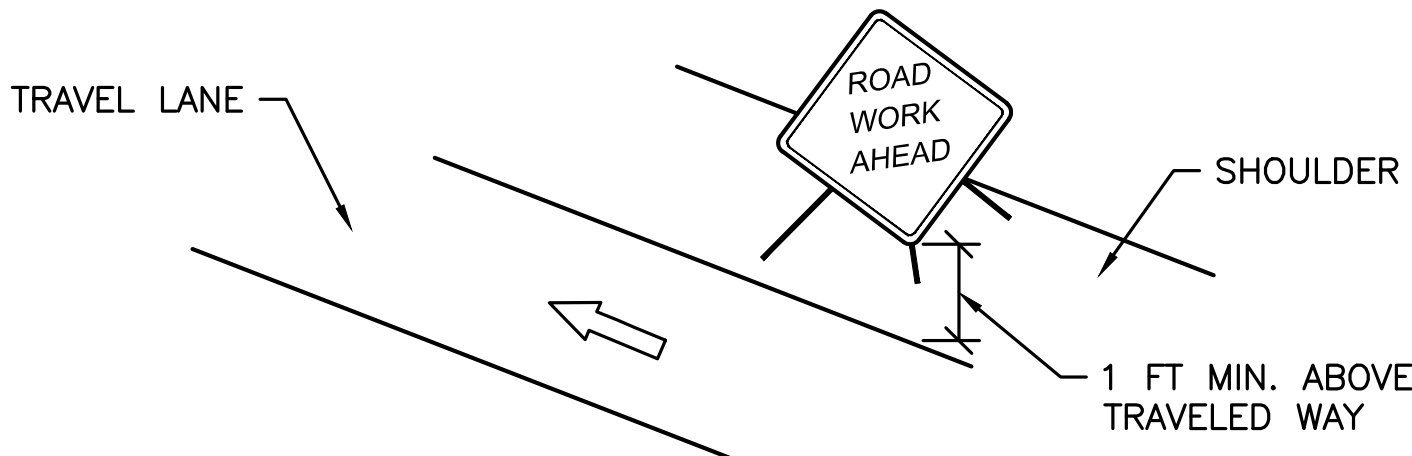
REFLECTORIZED STACKER CONE



REFLECTORIZED DRUM



SIGN MOUNTING DETAIL  
(WITH CURB)



SIGN MOUNTING DETAIL  
(HIGHWAY SHOULDER)



HOWARD STEIN HUDSON  
11 Beacon Street, Suite 1010  
Boston, MA 02108  
www.hshassoc.com

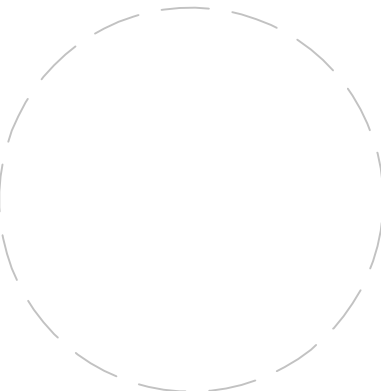
PREPARED FOR:



440 GRANITE AVE  
MILTON, MASSACHUSETTS, 02186  
NORFOLK COUNTY

REVISIONS:

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ISSUED FOR  
CONSTRUCTION

TEMPORARY  
TRAFFIC CONTROL  
DEVICES I

|                 |                |
|-----------------|----------------|
| DATE:           | MARCH 30, 2023 |
| PROJECT NUMBER: | 2021112        |
| DESIGNED BY:    | M.KHARAKH      |
| DRAWN BY:       | M.KHARAKH      |
| CHECKED BY:     | K.MARTIN       |

CMP-003

SHEET 3 OF 13

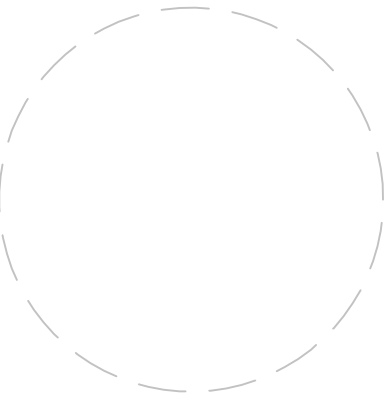
PREPARED FOR:



440 GRANITE AVE  
MILTON, MASSACHUSETTS, 02186  
NORFOLK COUNTY

REVISIONS:

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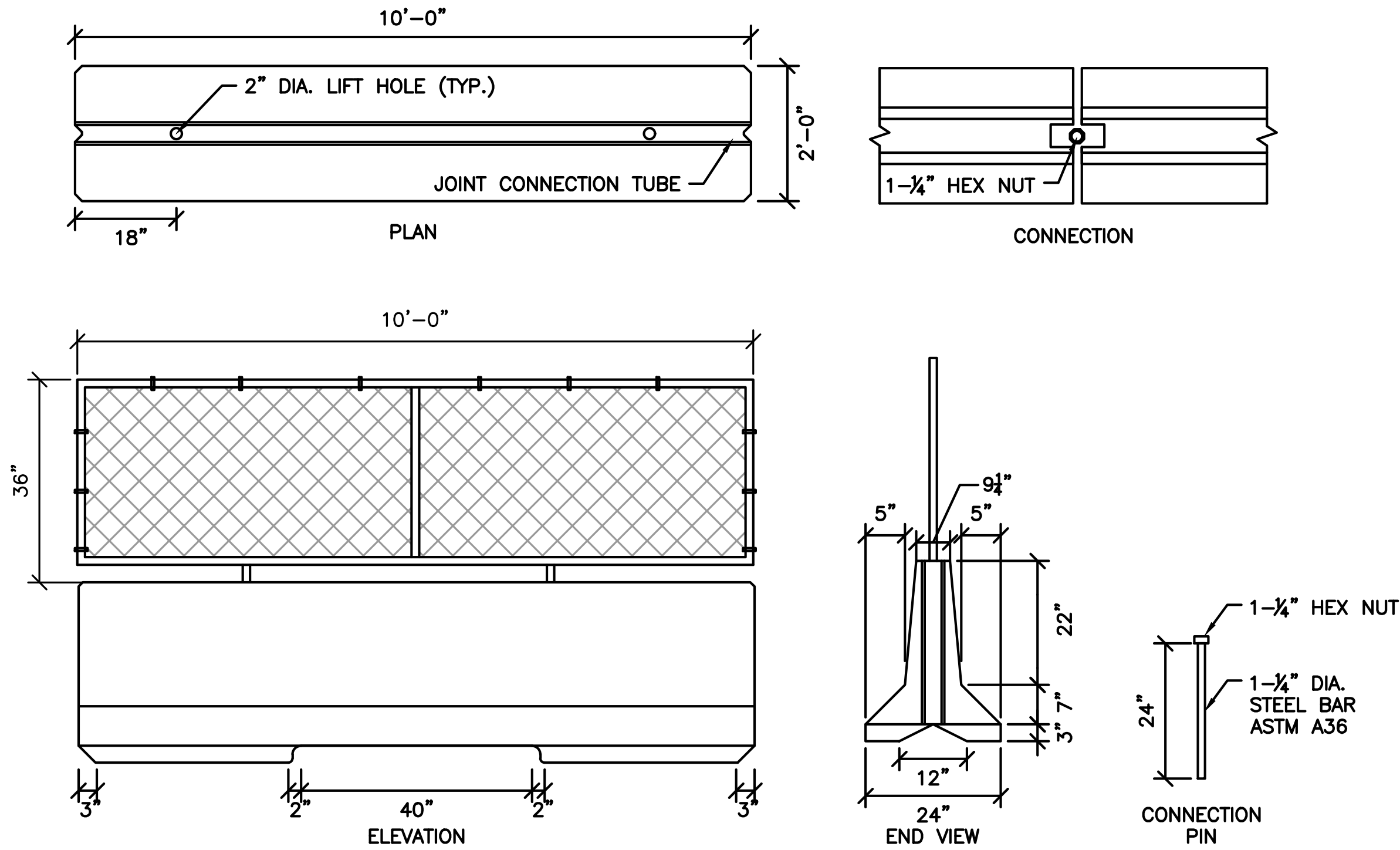
ISSUED FOR  
CONSTRUCTION

TEMPORARY  
TRAFFIC CONTROL  
DEVICES II

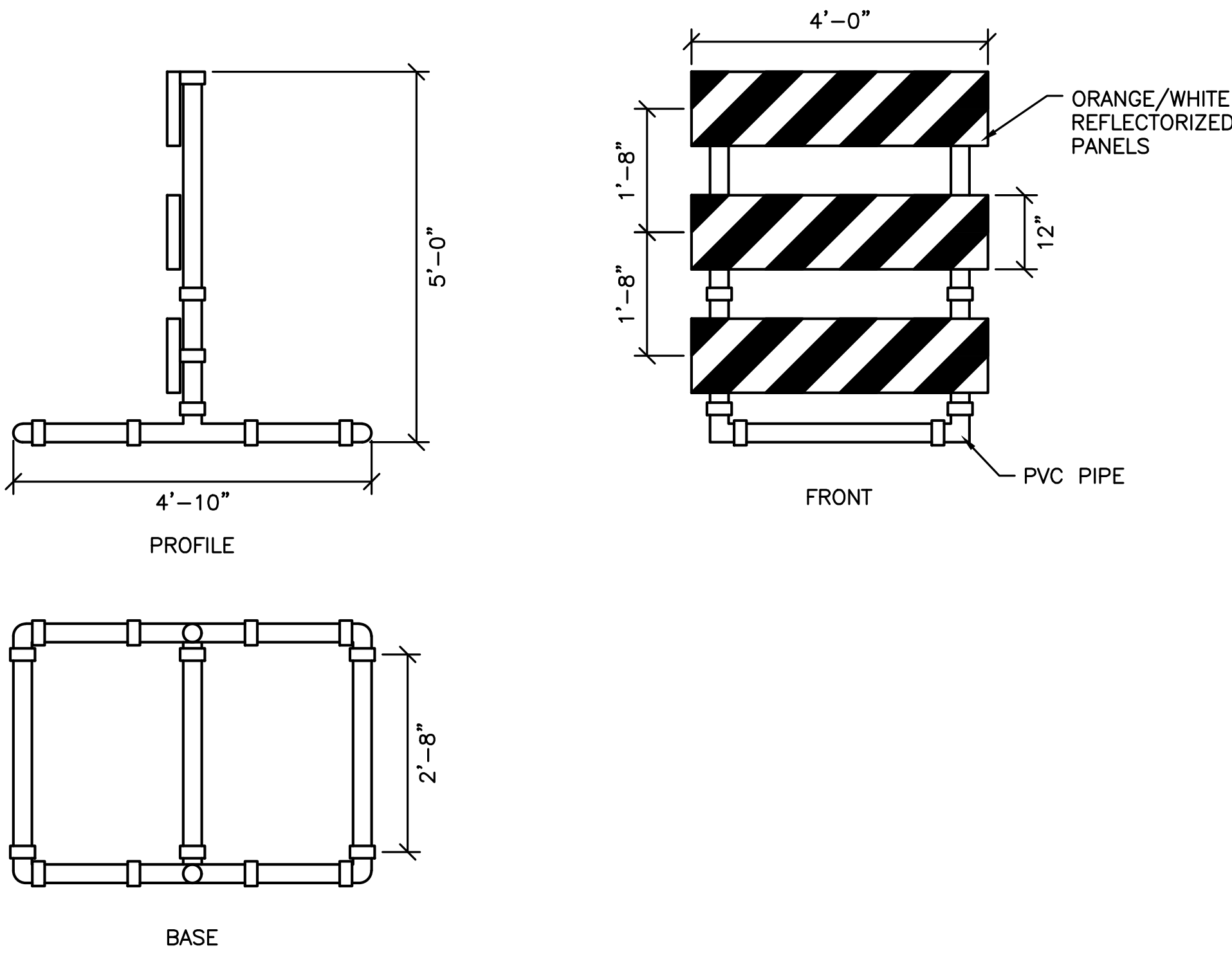
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|-----------------|----------------|
| DATE:           | MARCH 30, 2023 |
| PROJECT NUMBER: | 2021112        |
| DESIGNED BY:    | M.KHARAKH      |
| DRAWN BY:       | M.KHARAKH      |
| CHECKED BY:     | K.MARTIN       |

CMP-004

SHEET 4 OF 13

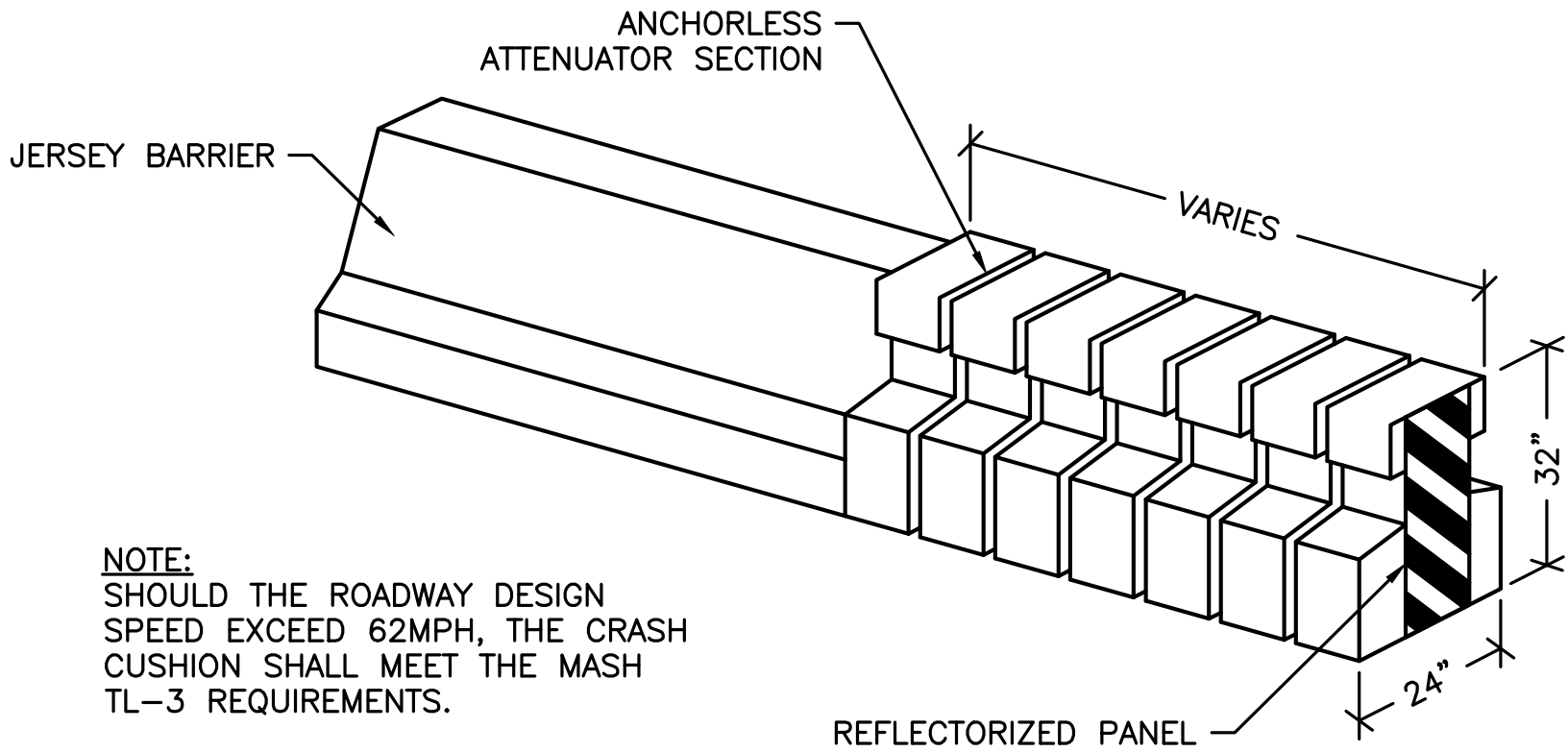


TEMPORARY CONCRETE BARRIER MASH TL-2 WITH 36" CHAIN LINK FENCE



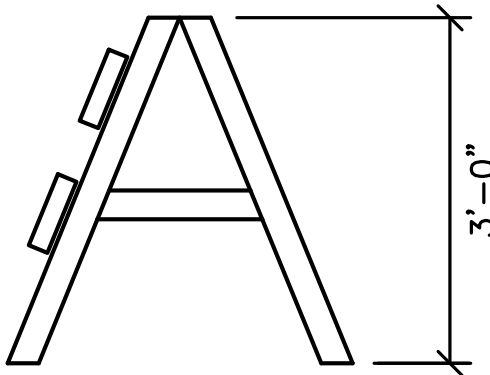
TYPE III BARRICADE

TYPE III BARRICADES SHALL MEET MUTCD REQUIREMENTS (CURRENT EDITION)

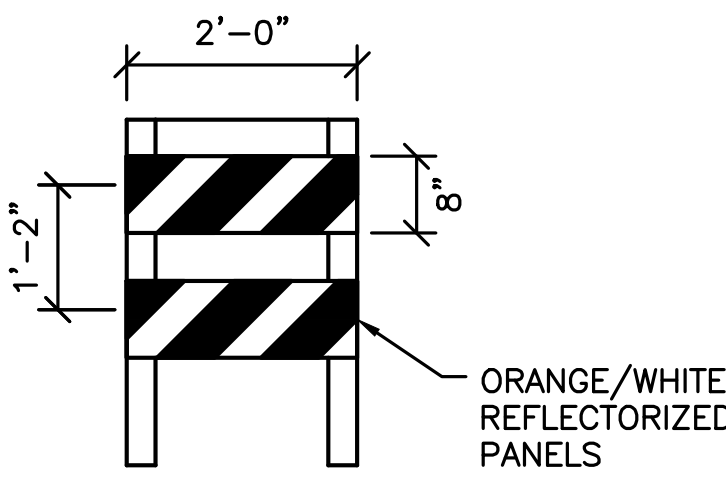


NOTE:  
SHOULD THE ROADWAY DESIGN  
SPEED EXCEED 62MPH, THE CRASH  
CUSHION SHALL MEET THE MASH  
TL-3 REQUIREMENTS.

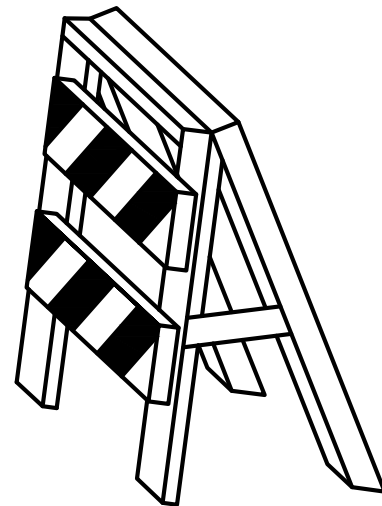
WATER-FILLED CRASH CUSHION ATTENUATOR  
(MASH TL-2 CERTIFIED)\*  
NOT TO SCALE



PROFILE



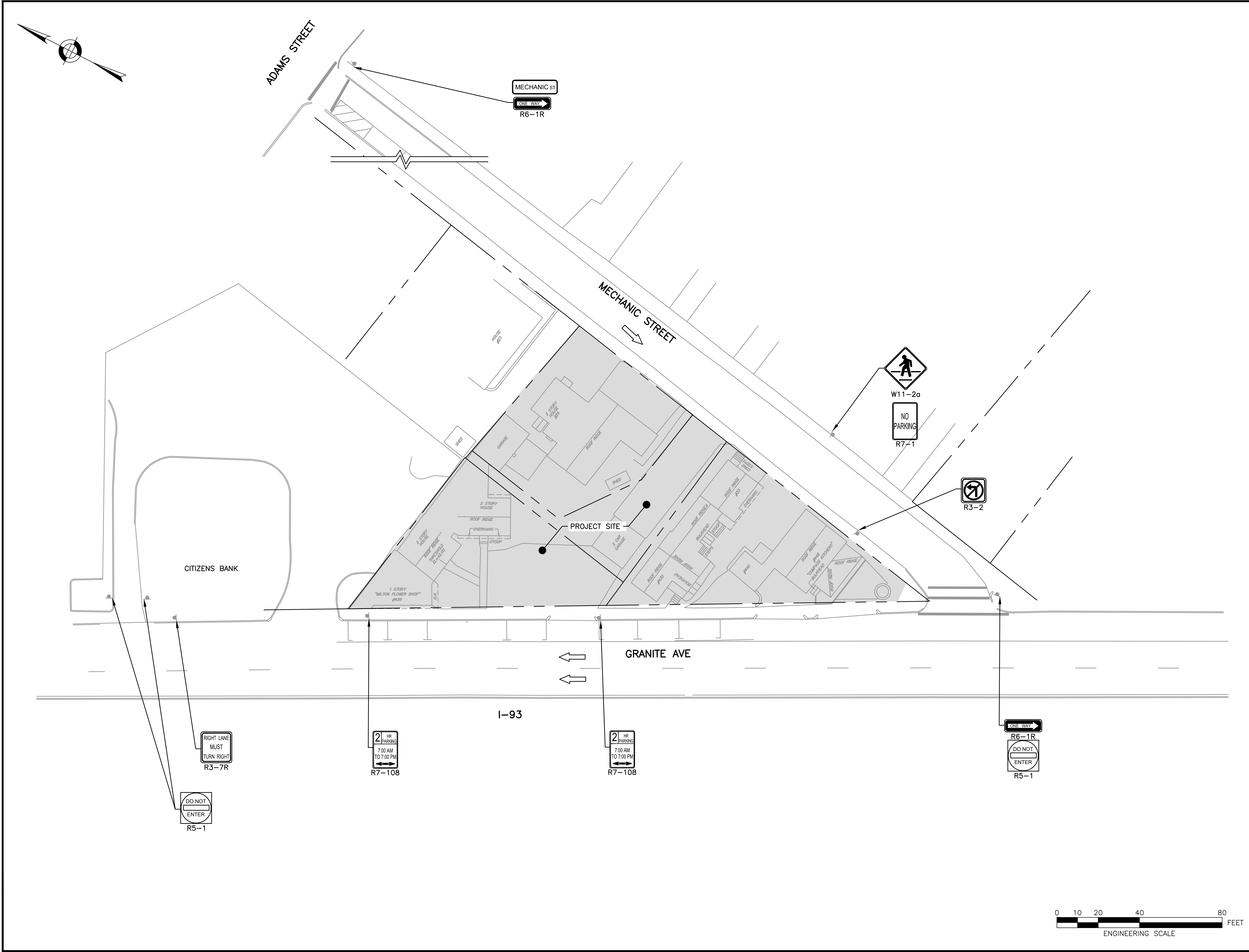
FRONT



ISOMETRIC

TYPE II BARRICADE





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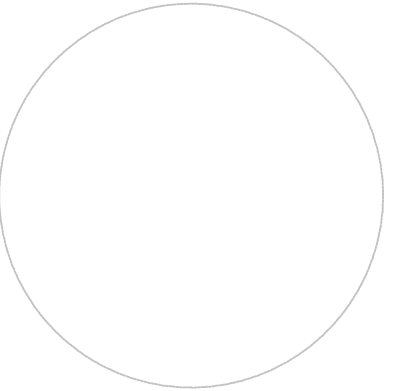
PREPARED FOR:



**440 GRANITE AVE**  
MILTON, MASSACHUSETTS, 02186  
NORFOLK COUNTY

REVISIONS:

| NO | BY | DATE | DESCRIPTION |
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ISSUED FOR  
CONSTRUCTION

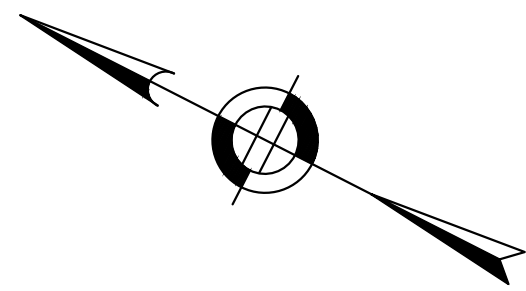
EXISTING  
CONDITIONS

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| DATE:           | MARCH 30, 2023 |
| PROJECT NUMBER: | 2021153        |
| DESIGNED BY:    | M.KHARAKH      |
| DRAWN BY:       | M.KHARAKH      |
| CHECKED BY:     | K.MARTIN       |

CMP-005

SHEET 5 OF 13





R9-11L  
TYPE II BARRICADE

ADAMS STREET

MECHANIC STREET



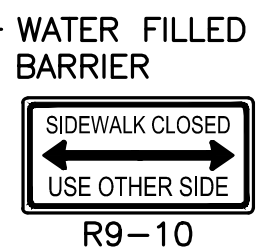
TEMP CONCRETE BARRIER  
MASH TL-2 WITH 36"  
CHAIN LINK FENCE (TYP.)



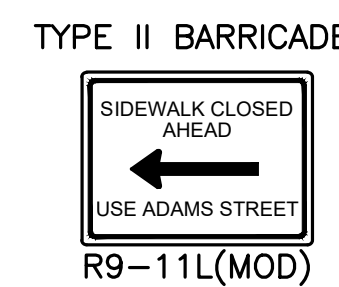
MAINTAIN DRIVEWAY ACCESS  
THROUGHOUT CONSTRUCTION  
(TYP.)



REMOVE EXISTING CURB AND  
PATCH WITH TEMPORARY  
ASPHALT TO MAINTAIN FIRE  
TRUCK ACCESS



ADAMS ST



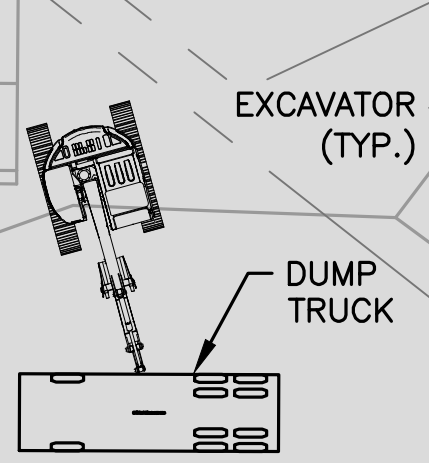
TYPE II BARRICADE

CITIZENS BANK

72" CHAIN LINK FENCE  
(TYP.)



20' SWING  
GATE B



EXCAVATOR  
(TYP.)

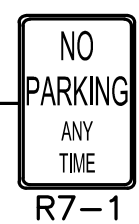
DUMP  
TRUCK

20' SWING  
GATE A



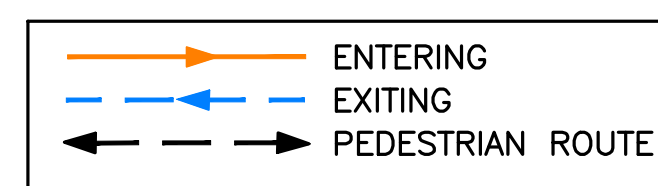
GRANITE AVE

I-93



IMPACT  
ATTENUATOR  
(TYP.)

72" MOVABLE CHAIN  
LINK FENCE (TYP.)



WORK TO BE COMPLETED:

1. ERECT SITE FENCE, BARRIERS, AND SIGNAGE.

NOTES:

1. SEE SHEETS 9-11 FOR TRUCK TURNING MANEUVERS.
2. CONTRACTOR TO COORDINATE THE REMOVAL OF THE HYDRANT WITH THE TOWN OF MILTON AND THE MILTON FIRE DEPARTMENT. SEE UTILITY PLANS FOR NEW HYDRANT LOCATION.



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PREPARED FOR:



440 GRANITE AVE  
MILTON, MASSACHUSETTS, 02186  
NORFOLK COUNTY

REVISIONS:

| NO | BY | DATE | DESCRIPTION |
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ISSUED FOR  
CONSTRUCTION

SITE DEMOLITION

DATE: MARCH 30, 2023

PROJECT NUMBER: 2021153

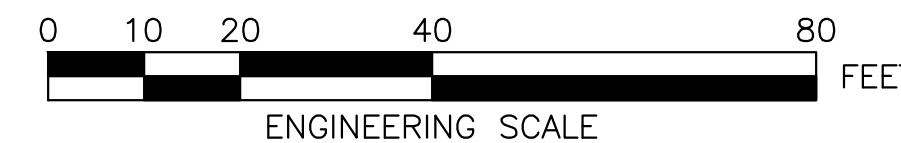
DESIGNED BY: M.KHARAKH

DRAWN BY: M.KHARAKH

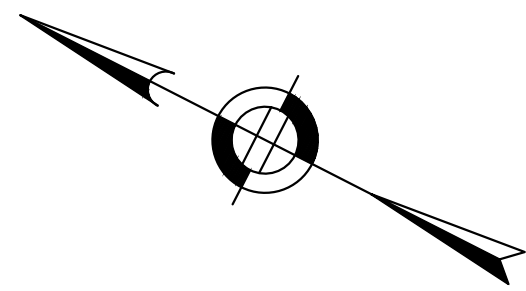
CHECKED BY: K.MARTIN

CMP-006

SHEET 6 OF 13







R9-11L  
TYPE II BARRICADE

ADAMS STREET

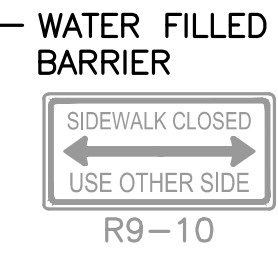
MECHANIC STREET



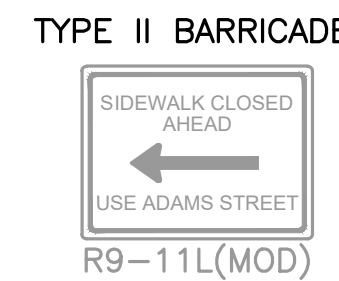
TEMP CONCRETE BARRIER  
MASH TL-2 WITH 36"  
CHAIN LINK FENCE (TYP.)



MAINTAIN DRIVEWAY ACCESS  
THROUGHOUT CONSTRUCTION  
(TYP.)



ADAMS ST

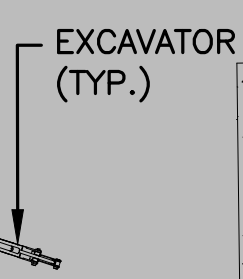


CITIZENS BANK

72" CHAIN LINK FENCE  
(TYP.)



20' SWING  
GATE B



EXCAVATOR  
(TYP.)

20 YD  
DUMPSTER

CONCRETE  
TRUCK

CONCRETE  
PUMP



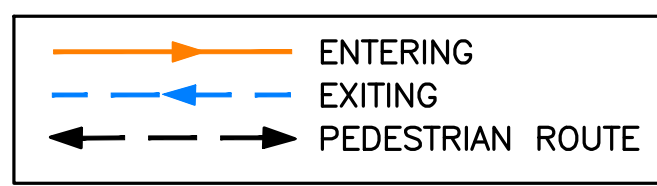
WATER FILLED  
BARRIER

GRANITE AVE

I-93



IMPACT  
ATTENUATOR  
(TYP.)



WORK TO BE COMPLETED:

1. EXCAVATE TO SUBSURFACE GRADE.
2. POUR CONCRETE FOUNDATION.

NOTES:

1. SEE SHEETS 9-11 FOR TRUCK TURNING MANEUVERS.



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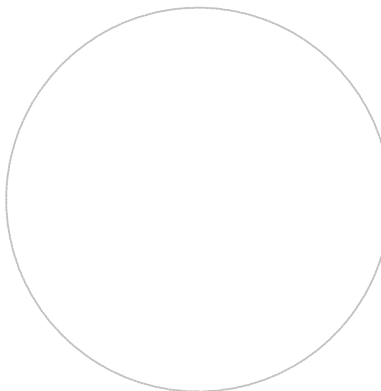
PREPARED FOR:



**440 GRANITE AVE**  
MILTON, MASSACHUSETTS, 02186  
NORFOLK COUNTY

REVISIONS:

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ISSUED FOR  
CONSTRUCTION

**SITE EXCAVATION  
AND CONCRETE  
FOUNDATION**

DATE: MARCH 30, 2023

PROJECT NUMBER: 2021153

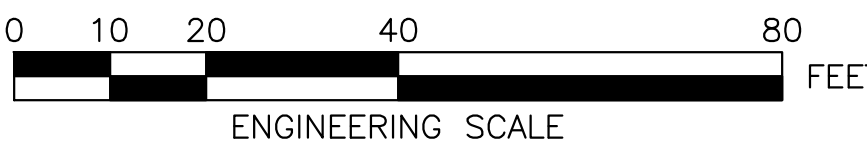
DESIGNED BY: M.KHARAKH

DRAWN BY: M.KHARAKH

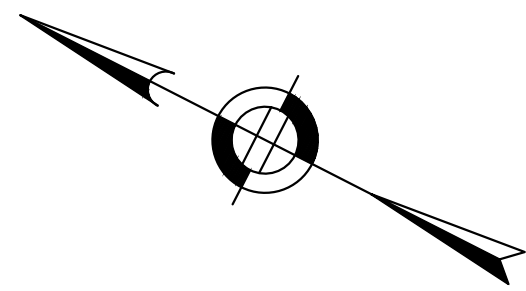
CHECKED BY: K.MARTIN

CMP-007

SHEET 7 OF 13







R9-11L  
TYPE II BARRICADE

ADAMS STREET

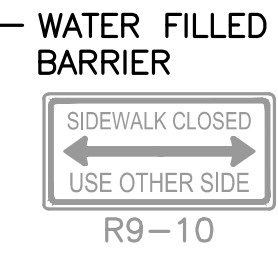
MECHANIC STREET



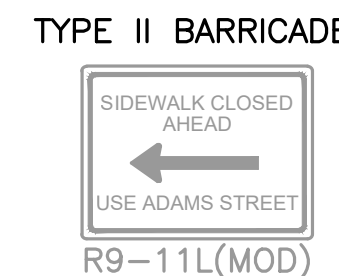
TEMP CONCRETE BARRIER  
MASH TL-2 WITH 36"  
CHAIN LINK FENCE (TYP.)



MAINTAIN DRIVEWAY ACCESS  
THROUGHOUT CONSTRUCTION  
(TYP.)



ADAMS ST



R9-11L(MOD)  
TYPE II BARRICADE

CITIZENS BANK

72" CHAIN LINK FENCE  
(TYP.)



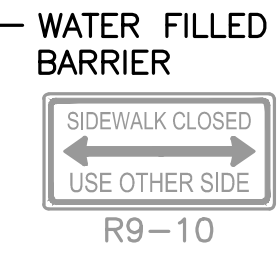
20' SWING  
GATE B

MOBILE CRANE

BOOM LIFT  
(TYP.)

20' SWING  
GATE A

(P)



GRANITE AVE

PROP BUILDING OVERHANG  
(TYP.)



I-93

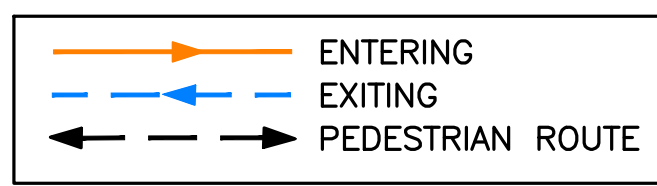


MATERIAL  
DELIVERY TRUCK  
(TYP.)



IMPACT  
ATTENUATOR  
(TYP.)

72" MOVABLE CHAIN  
LINK FENCE (TYP.)



WORK TO BE COMPLETED:

1. ERECT BUILDING STRUCTURE.
2. INSTALL ALL EXTERIOR FACADE AND INTERIOR FIT-OUT FEATURES.

NOTES:

1. SEE SHEETS 9-11 FOR TRUCK TURNING MANEUVERS.



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ISSUED FOR  
CONSTRUCTION

STRUCTURAL,  
INTERIOR FIT-OUT,  
& EXTERIOR  
FACADE

DATE: MARCH 30, 2023

PROJECT NUMBER: 2021153

DESIGNED BY: M.KHARAKH

DRAWN BY: M.KHARAKH

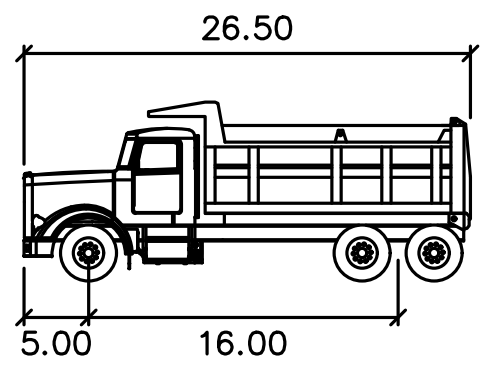
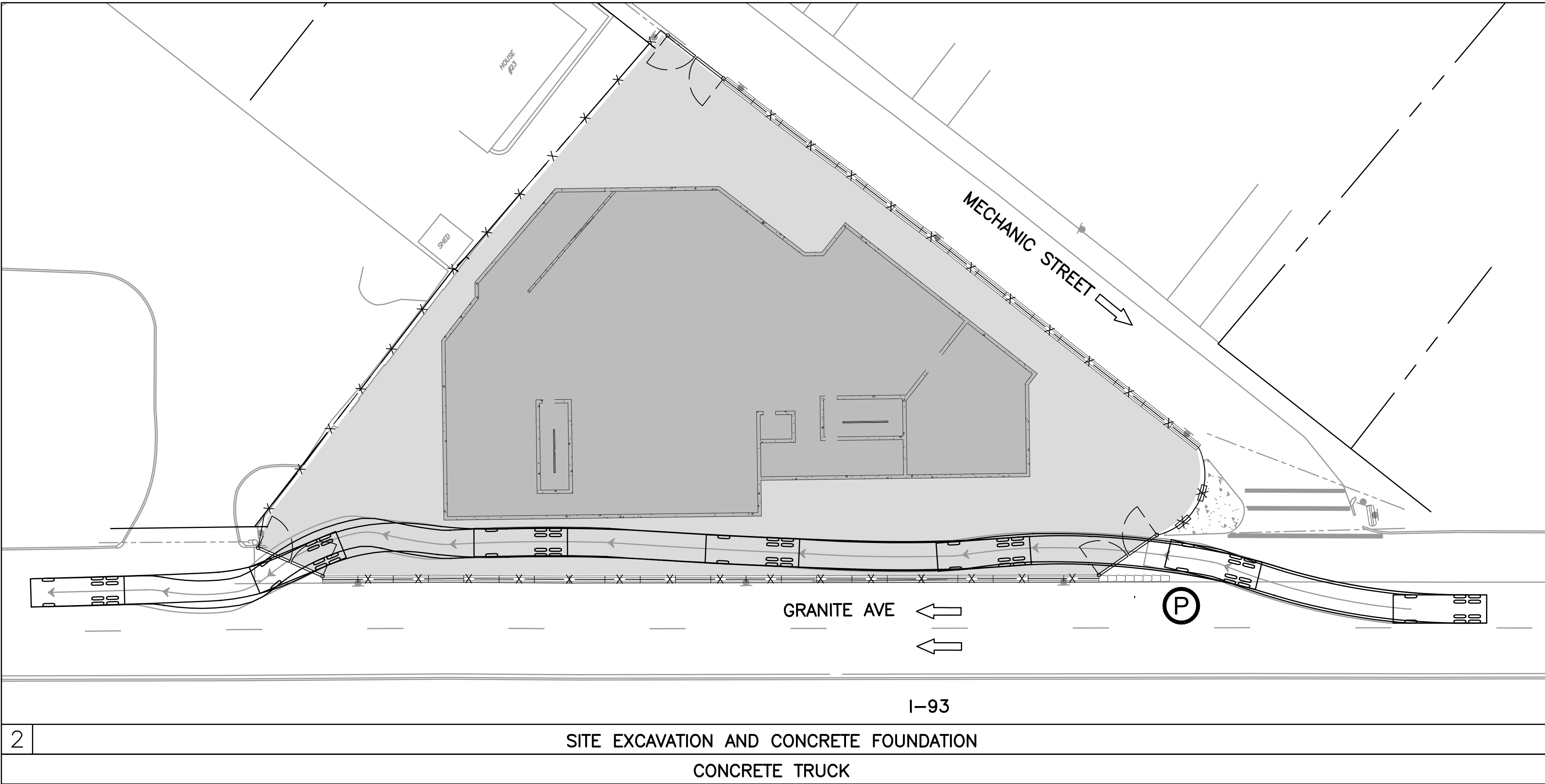
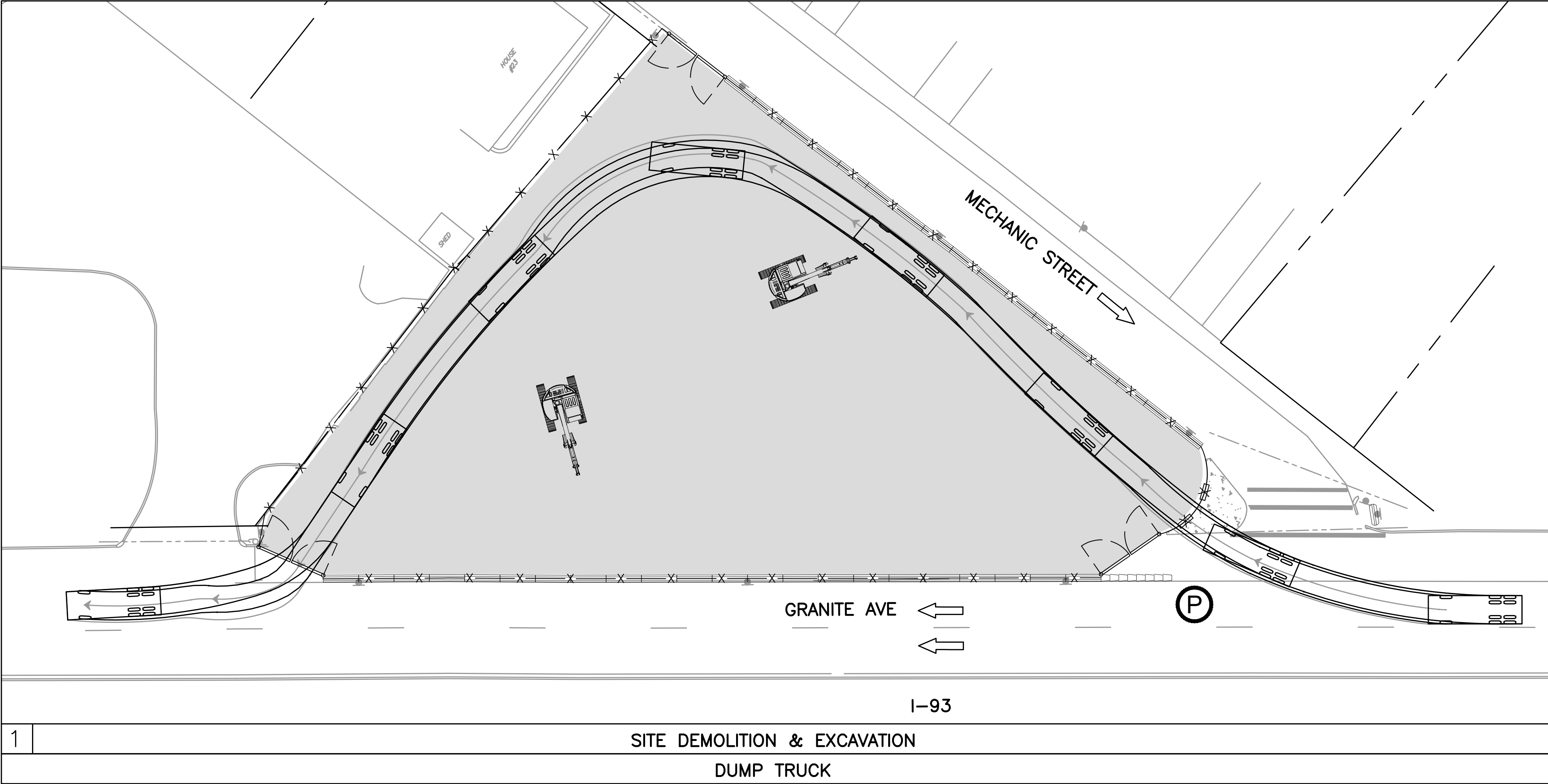
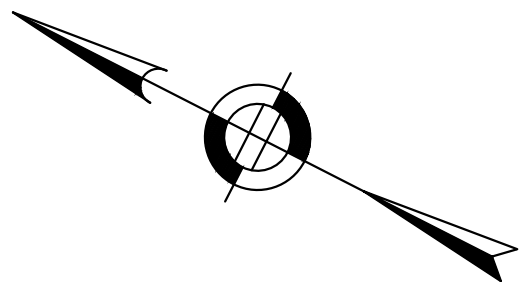
CHECKED BY: K.MARTIN

CMP-008

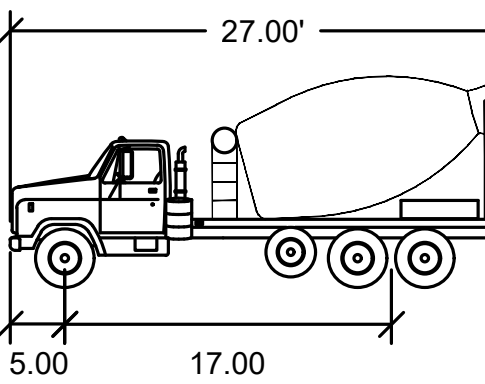
SHEET 8 OF 13







25 CY Dump Truck  
feet  
Width : 8.00  
Track : 8.00  
Lock to Lock Time : 6.0  
Steering Angle : 40.0



Concrete Truck  
feet  
Width : 8.00  
Track : 8.00  
Lock to Lock Time : 6.00  
Steering Angle : 40.00



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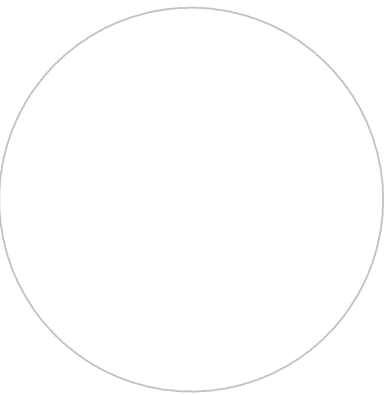
PREPARED FOR:



**440 GRANITE AVE**  
MILTON, MASSACHUSETTS, 02186  
NORFOLK COUNTY

REVISIONS:

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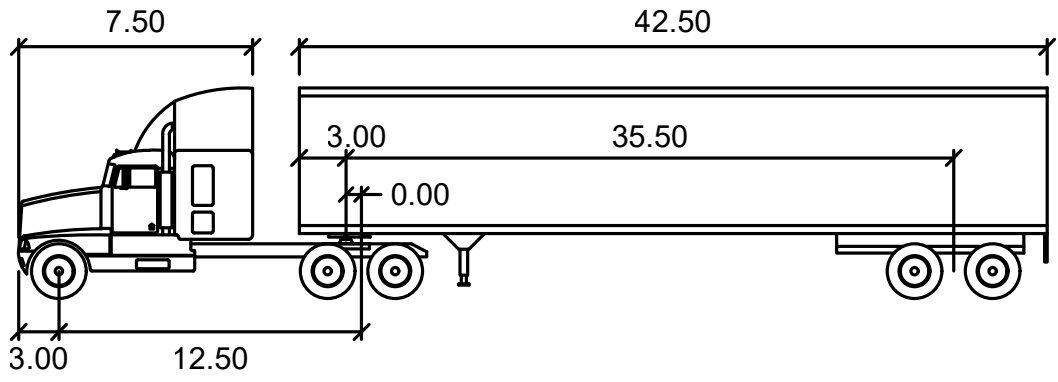
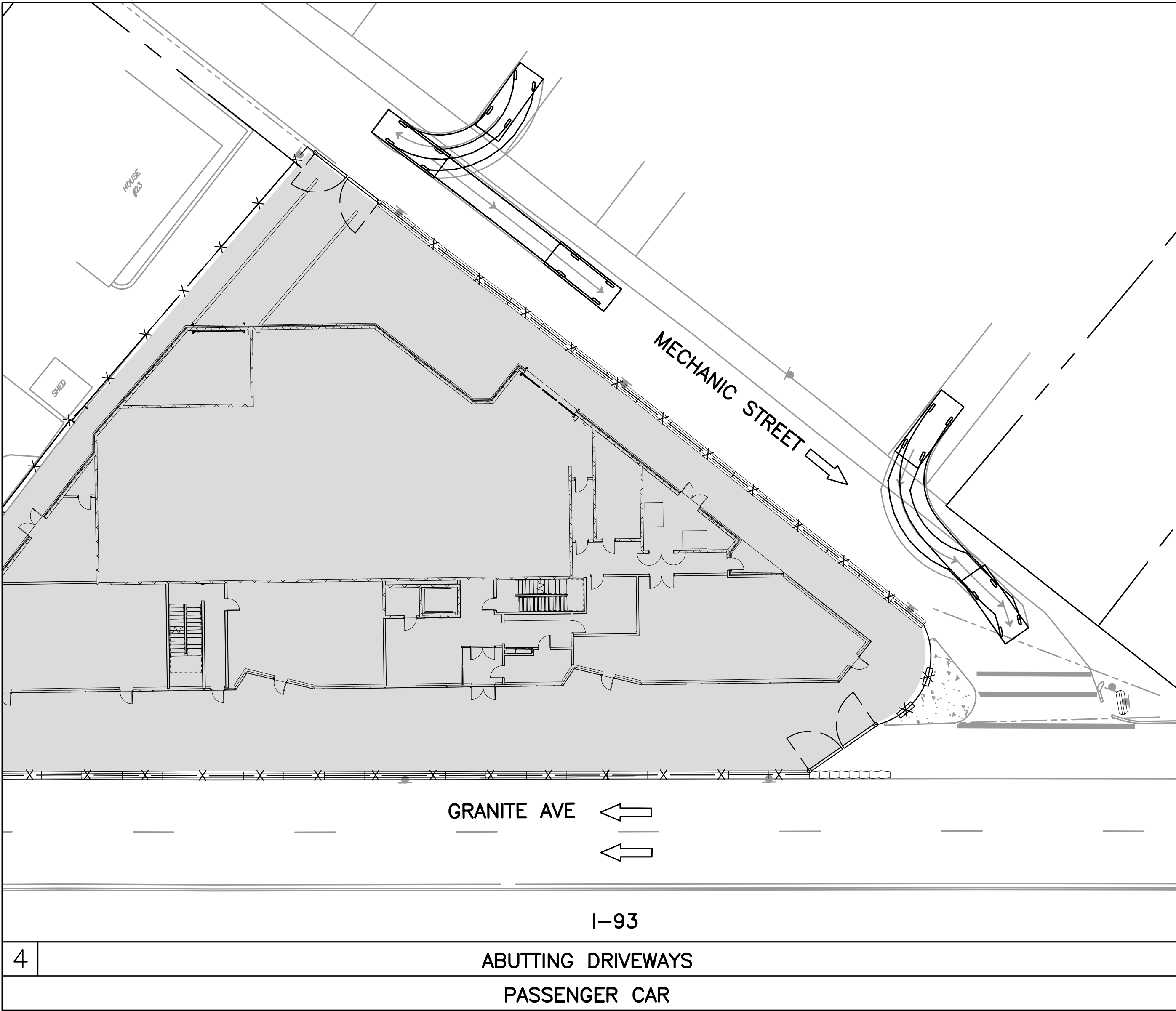
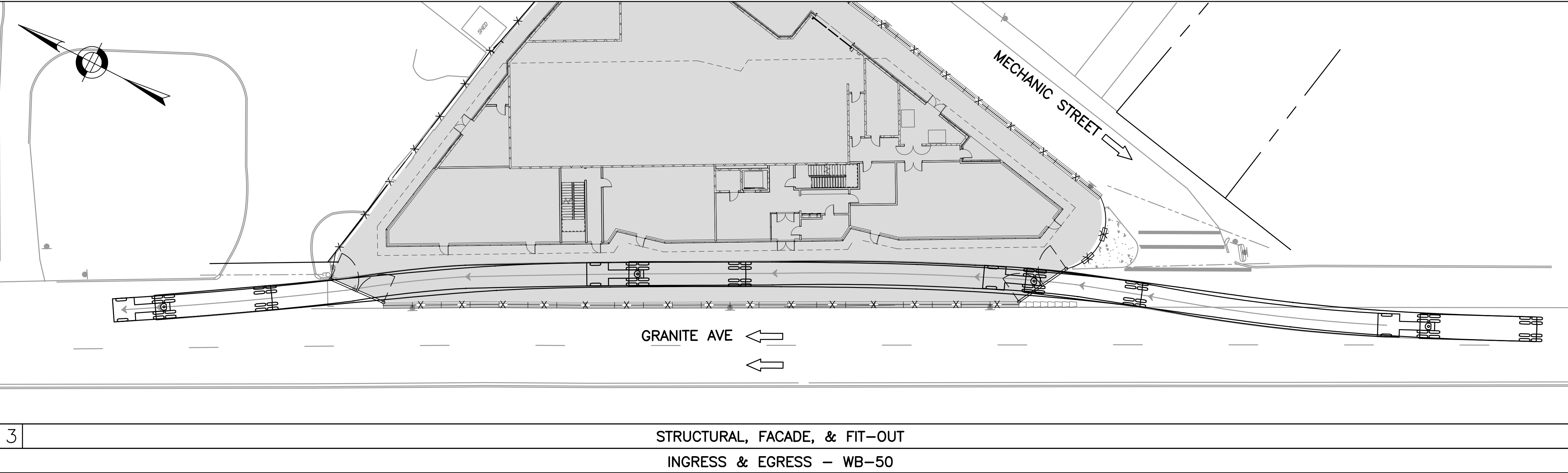
ISSUED FOR  
CONSTRUCTION

**TRUCK TURNING  
MANUEVERS I**

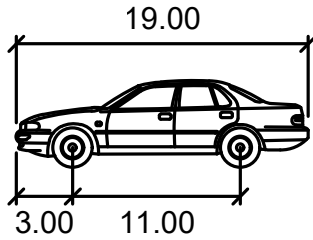
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| DATE:           | MARCH 30, 2023 |
| PROJECT NUMBER: | 2021153        |
| DESIGNED BY:    | M.KHARAKH      |
| DRAWN BY:       | M.KHARAKH      |
| CHECKED BY:     | K.MARTIN       |

CMP-009

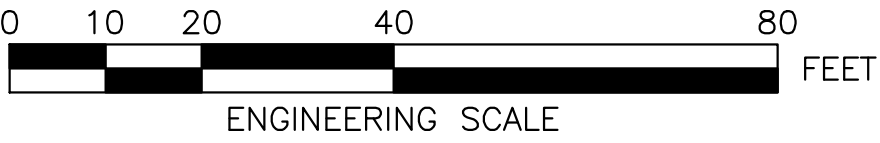




| WB-50         |        |                    |         |
|---------------|--------|--------------------|---------|
|               | feet   |                    |         |
| Tractor Width | : 8.00 | Lock to Lock Time  | : 6.00  |
| Trailer Width | : 8.50 | Steering Angle     | : 17.70 |
| Tractor Track | : 8.00 | Articulating Angle | : 70.00 |
| Trailer Track | : 8.50 |                    |         |



| PASSENGER CAR     |        |  |  |
|-------------------|--------|--|--|
|                   | feet   |  |  |
| Width             | : 7.00 |  |  |
| Track             | : 6.00 |  |  |
| Lock to Lock Time | : 6.0  |  |  |
| Steering Angle    | : 31.6 |  |  |



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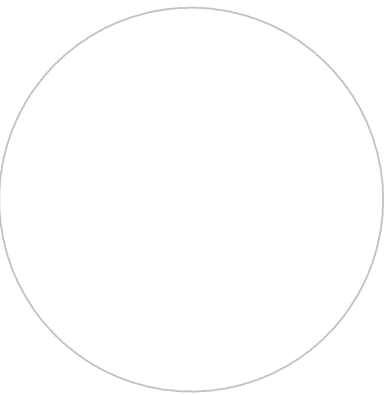
PREPARED FOR:



**440 GRANITE AVE**  
MILTON, MASSACHUSETTS, 02186  
NORFOLK COUNTY

REVISIONS:

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**ISSUED FOR  
CONSTRUCTION**

**TRUCK TURNING  
MANUEVERS II**

|                 |                |
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| DATE:           | MARCH 30, 2023 |
| PROJECT NUMBER: | 2021153        |
| DESIGNED BY:    | M.KHARAKH      |
| DRAWN BY:       | M.KHARAKH      |
| CHECKED BY:     | K.MARTIN       |

CMP-010

SHEET 10 OF 13





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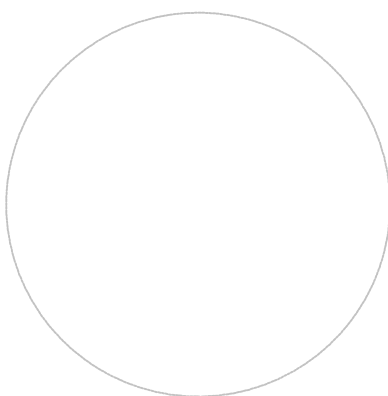
PREPARED FOR:



440 GRANITE AVE  
MILTON, MASSACHUSETTS, 02186  
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REVISIONS:

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ISSUED FOR  
CONSTRUCTION

TRUCK TURNING  
MANUEVERS III

DATE: MARCH 30, 2023

PROJECT NUMBER: 2021153

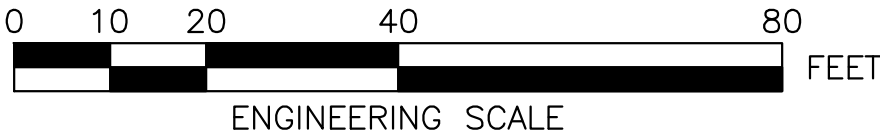
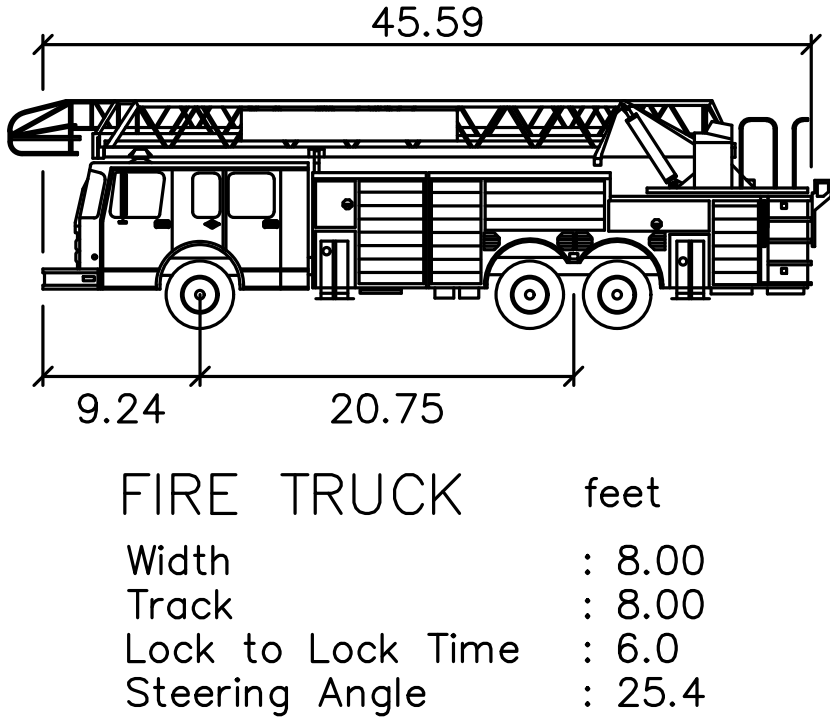
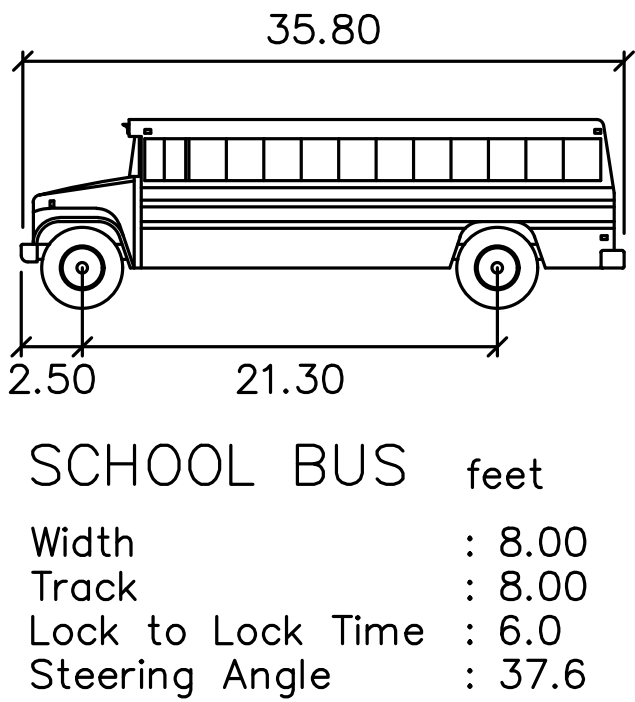
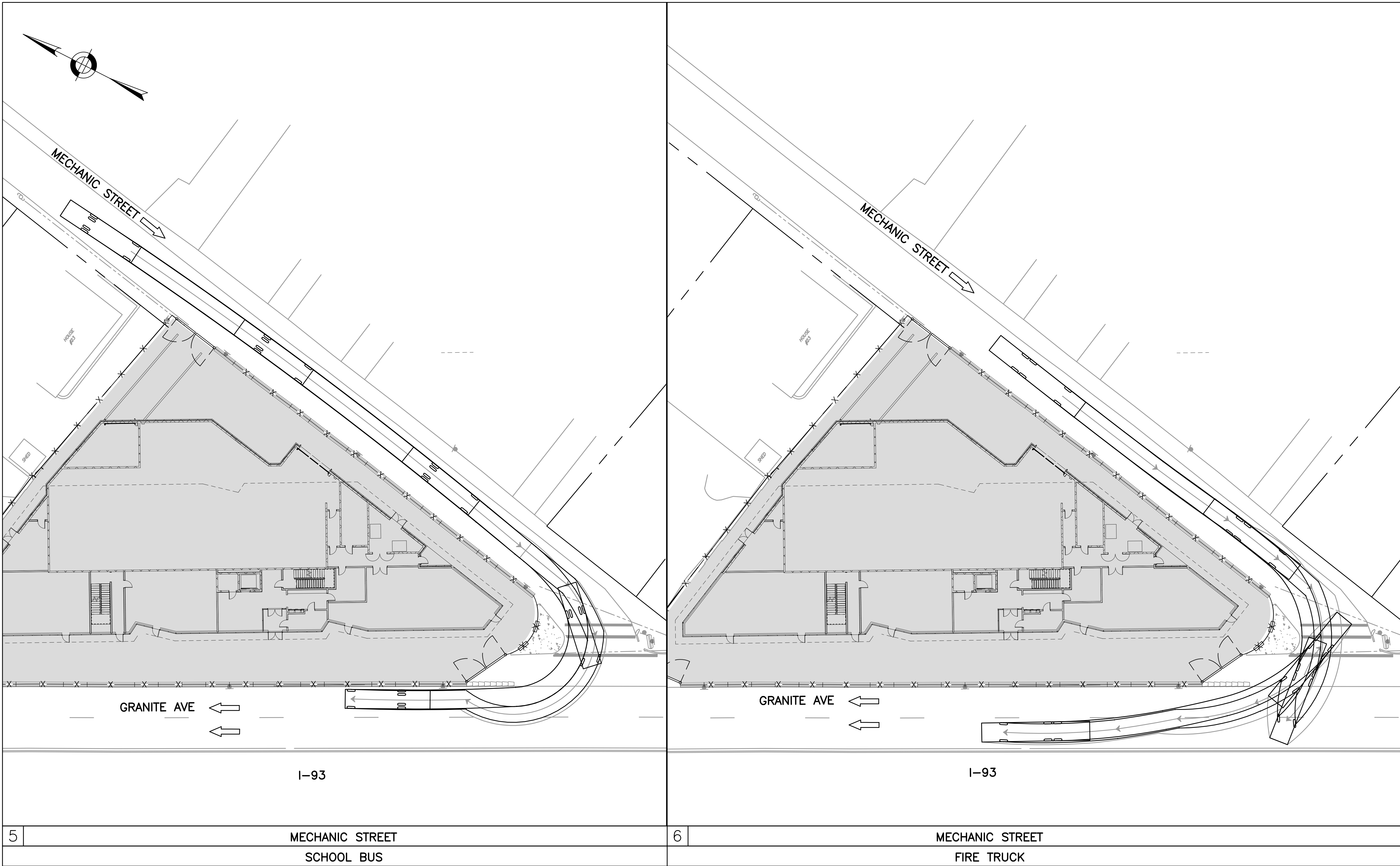
DESIGNED BY: M.KHARAKH

DRAWN BY: M.KHARAKH

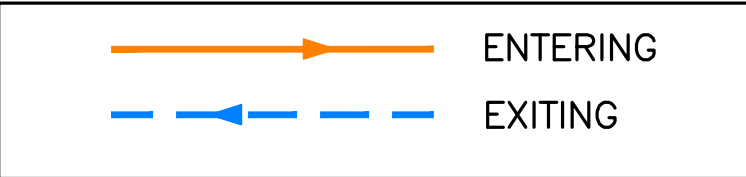
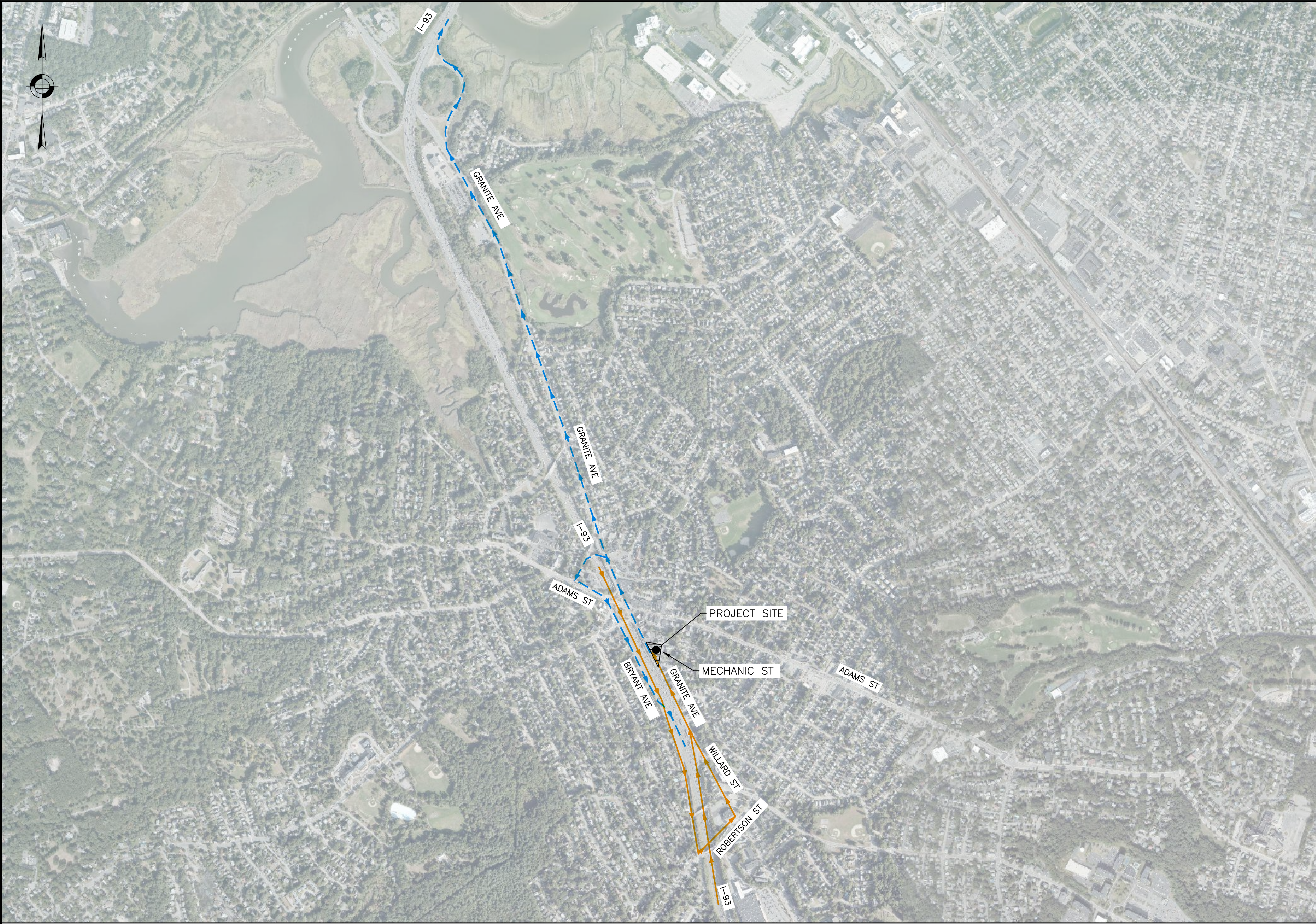
CHECKED BY: K.MARTIN

CMP-011

SHEET 11 OF 13







**HOWARD STEIN HUDSON**  
11 Beacon Street, Suite 1010  
Boston, MA 02108  
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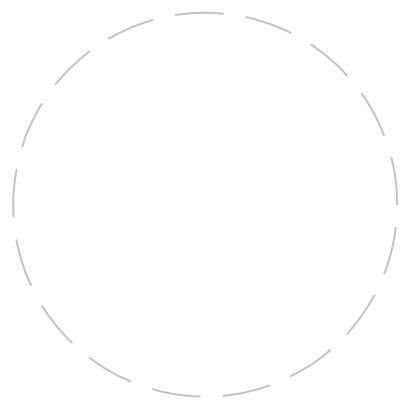
PREPARED FOR:



**440 GRANITE AVE**  
MILTON, MASSACHUSETTS, 02186  
NORFOLK COUNTY

REVISIONS:

| NO | BY | DATE | DESCRIPTION |
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ISSUED FOR  
CONSTRUCTION

**TRUCK ROUTING  
PLAN**

|                 |                |
|-----------------|----------------|
| DATE:           | MARCH 30, 2023 |
| PROJECT NUMBER: | 2021153        |
| DESIGNED BY:    | M.KHARAKH      |
| DRAWN BY:       | M.KHARAKH      |
| CHECKED BY:     | K.MARTIN       |

CMP-012

SHEET 12 OF 13





HOWARD STEIN HUDSON

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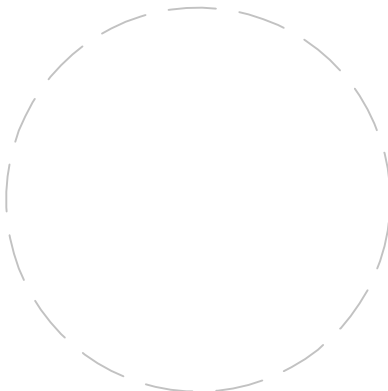
PREPARED FOR:



440 GRANITE AVE  
MILTON, MASSACHUSETTS, 02186  
NORFOLK COUNTY

REVISIONS:

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ISSUED FOR  
CONSTRUCTION

SIGN SUMMARY

|                 |                |
|-----------------|----------------|
| DATE:           | MARCH 30, 2023 |
| PROJECT NUMBER: | 2021153        |
| DESIGNED BY:    | M.KHARAKH      |
| DRAWN BY:       | M.KHARAKH      |
| CHECKED BY:     | K.MARTIN       |

CMP-013

SHEET 13 OF 13

SIGN SUMMARY

| IDENTIF-<br>ICATION<br>NUMBER | SIZE OF SIGN<br>(INCHES) |        | UNIT<br>AREA<br>SF | TEXT | TEXT DIMENSIONS                  |  | NUMBER<br>OF SIGNS<br>REQUIRED | COLOR                        |  | POST SIZE<br>AND<br>NUMBER<br>REQUIRED<br>PER SIGN |  | AREA IN<br>SQUARE<br>FEET |
|-------------------------------|--------------------------|--------|--------------------|------|----------------------------------|--|--------------------------------|------------------------------|--|--|--|---------------------------|
|                               | WIDTH                    | HEIGHT |                    |      |                                  |  |                                |                              |  |  |  |                           |
| M4-10R                        | 24"                      | 8"     | 1.33               |      | SEE THE MUTCD<br>STANDARD DETAIL |  | 1                              | SEE MUTCD<br>STANDARD DETAIL |  | MUTCD SPEC.<br>MOUNT ON<br>MAST<br>ARM/POST        |  | 1.33                      |
| R7-1                          | 12"                      | 18"    | 1.50               |      |                                  |  | 2                              |                              |  |  |  | 3.00                      |
| R7-1L                         | 12"                      | 18"    | 1.50               |      |                                  |  | 2                              |                              |  |  |  | 3.00                      |
| R7-1R                         | 12"                      | 18"    | 1.50               |      |                                  |  | 2                              |                              |  |  |  | 3.00                      |
| R9-9                          | 24"                      | 12"    | 2.00               |      |                                  |  | 2                              |                              |  |  |  | 4.00                      |
| R9-10                         | 24"                      | 12"    | 2.00               |      |                                  |  | 1                              |                              |  |  |  | 2.00                      |
| R9-11L                        | 24"                      | 18"    | 3.00               |      |                                  |  | 1                              |                              |  |  |  | 3.00                      |
| R9-11L(MOD)                   | 24"                      | 18"    | 3.00               |      |                                  |  | 1                              |                              |  |  |  | 3.00                      |
| R11-2                         | 48"                      | 30"    | 10.00              |      |                                  |  | 1                              |                              |  |  |  | 10.00                     |
| R11-4                         | 60"                      | 30"    | 12.50              |      |                                  |  | 1                              |                              |  |  |  | 12.50                     |