Exhibit A
Legal Description

Proposed Property Boundary Description

Beginning at a point on the north side of South Frontage Road at the intersection with the Proposed Temple Street Extension;

thence running N 53°44'36" W a distance of 363.59 feet along the north side of South Frontage Road to a point at the intersection with College Street;

thence running on a curve to the right having a delta angle of 83°07'00" a radius of 15.00 feet and an arc length of 21.76 feet to a point;

thence running N 29°21'26" E a distance of 153.50 feet along the east side of College Street to a point at the intersection with Rev. Dr. Martin Luther King Jr. Boulevard;

thence running on a curve to the right having a delta angle of 92°04'55" a radius of 15.00 feet and an arc length of 24.11 feet to a point;

thence running S 54°21'46" E a distance of 416.94 feet along the south side of Rev. Dr. Martin Luther King Jr. Boulevard to a point at the intersection with the Proposed Temple Street Extension;

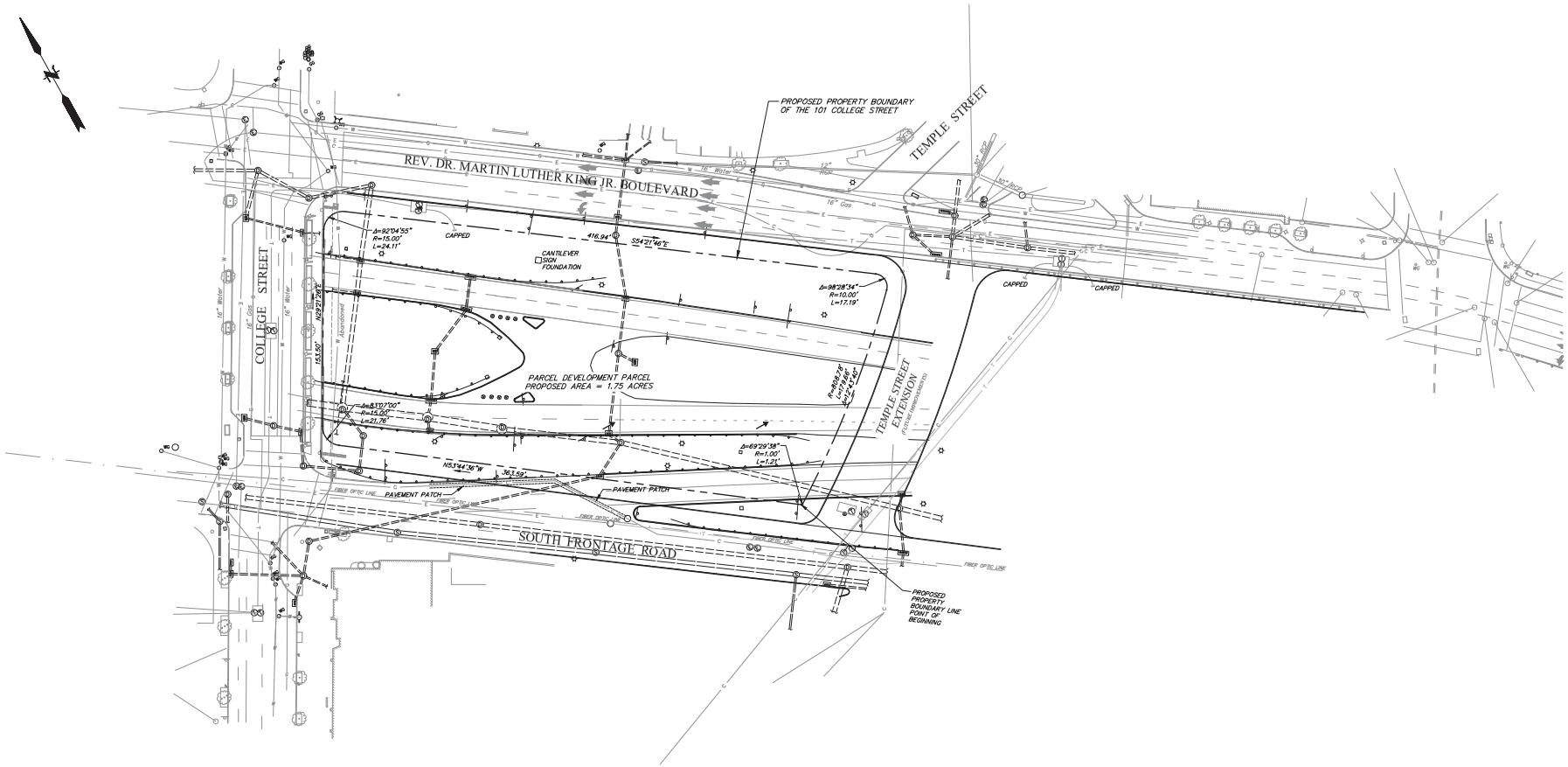
thence running on a curve to the right having a delta angle of 98°28'34" a radius of 10.00 feet and an arc length of 17.19 feet to a point;

thence running on a curve to the right having a delta angle of 12°43'40" a radius of 808.78 feet and an arc length of 179.66 feet to a point along the west side of the Proposed Temple Street Extension;

thence running on a curve to the right having a delta angle of 69°29'38" a radius of 1.00 feet and an arc length of 1.21 feet to the point and place of beginning;

Proposed Property Area = 76,085 S.F. (1.75 Acres)

Exhibit B



Underground Utilities (if depicted) have been compiled, in part, based upon information furnished by others. This information is to be considered approximate and Fuss & O'Neill Inc. does not take responsibility for subsequent errors or omissions which may have been incorporated into this plan as a result. Additionally, other such features may exist on the site, the existence of which are unknown to Fuss & O'Neill Inc.. The size, location and existence of all such features must be field determined and verified by the appropriate authorities prior to any construction. Call "Call Before You Dig" 1-800-922-4455.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 40'
VERT.:
DATUM:
HORZ.: NAD 27
VERT.: NGVD 29
40 20 0 40
GRAPHIC SCALE

FUSS&O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
www.fando.com

SURVEY OF COLLEGE STREET PARCEL
101 COLLEGE STREET
NEW HAVEN CONNECTICUT

PROJ. No.: 20140158A40
DATE: 01/06/2020

EX. B

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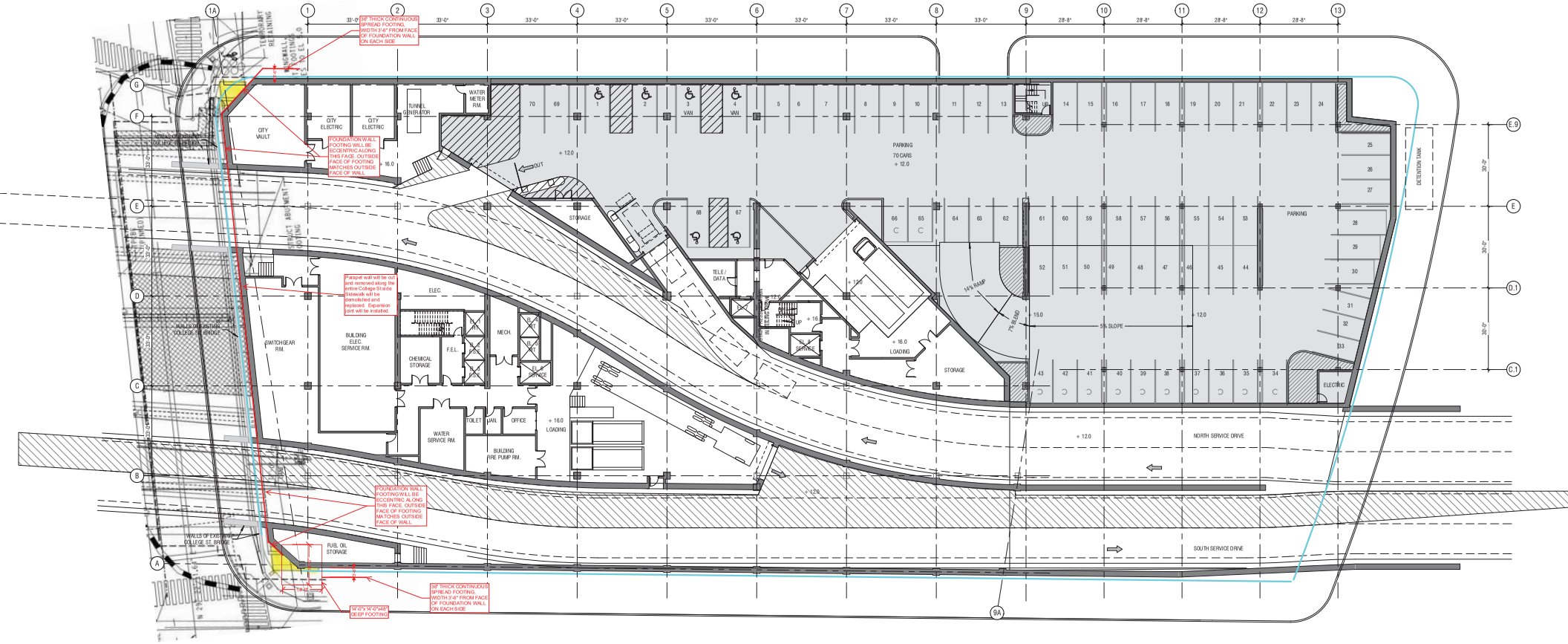
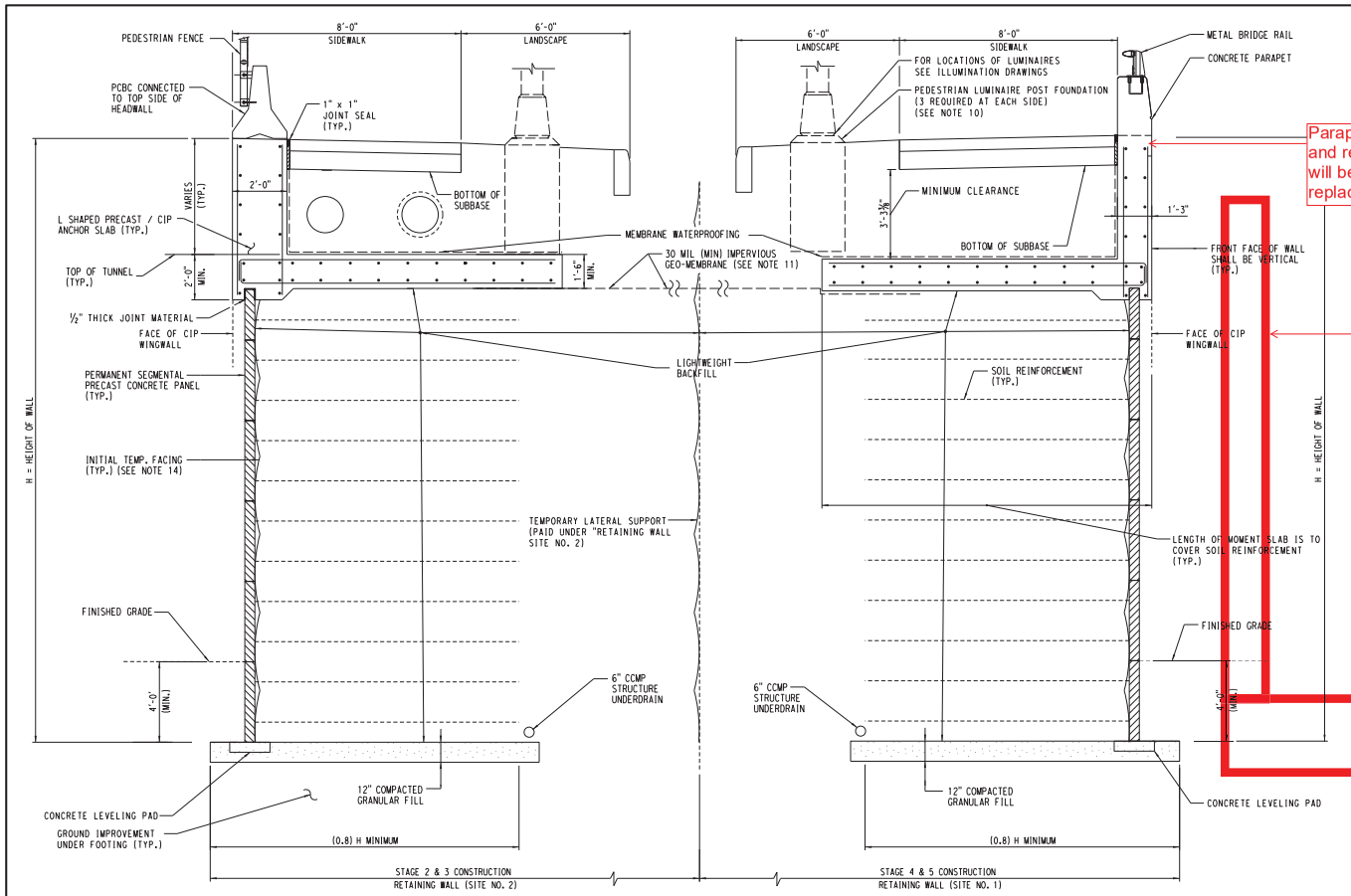
LAYER STATE:
MS VIEW:

Exhibit C
Modifications to the College Street Bridge





SECTION A-A: RETAINING WALL (SITE NO. 2)
MECHANICALLY STABLIZED EARTH (MSE) WALL

NOT TO SCALE

SECTION B-B: RETAINING WALL (SITE NO. 1)
MECHANICALLY STABLIZED EARTH (MSE) WALL

NOT TO SCALE

NOTES:

1. FOR DETAILS OF PEDESTRIAN FENCE, SEE SHEET STR-xx "PEDESTRIAN FENCE DETAILS"
2.

MSE WALL NOTES:

1. WALL DESIGN HEIGHT "H" FOR MSE WALL SECTIONS SHALL BE MEASURED FROM THE TOP OF PAVEMENT TO THE TOP OF THE LEVELING PAD.
2. MSE WALLS SHALL BE DESIGNED AND DETAILED TO ACCOMODATE ALL DRAINAGE FEATURES.
3. DETAILS SHOWN ON THIS SHEET ARE NOT SPECIFIC. THE CONTRACTOR SHALL MODIFY THE SECTIONS AND DETAILS TO CONFORM TO SPECIFIC SITE REQUIREMENTS.
4. LIGHTWEIGHT FILL REQUIRED FOR THIS WALL IN THE PAY LIMITS SHOWN ON THIS SHEET SHALL BE INCLUDED IN THE LUMP SUM COST OF THE RETAINING WALL.
5. FOR FORM LINER DETAILS, SEE ARCHITECTURAL SHEETS.
6. FOR PARAPET DETAILS AND REINFORCEMENT ABOVE THE GUTTER LINE, SEE SHEET "HEADWALL DETAILS".
7. L-SHAPED ANCHOR SLAB AND PARAPETS SHALL BE INCLUDED IN THE LUMP SUM COST OF THE RETAINING WALL.
8. WHERE UNDERDRAIN IS REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEVELOPMENT OF DETAILS AND THE CONNECTION TO THE EXISTING SITE STORM SEWER SYSTEM. ALL COST ASSOCIATED WITH THE DESIGN AND CONSTRUCTION OF THE UNDERDRAIN SYSTEM INCLUDING CONNECTIONS SHALL BE INCLUDED IN THE LUMP SUM COST OF THE RETAINING WALL.
9. FOR INTERFACE BETWEEN MSE WALL AND WINGWALL, SEE SHEET "WALL ELEVATIONS (SITE NO. 2)".
10. THE MSE WALL STRAPS SHALL BE LAID OUT TO AVOID LUMINAIRE FOUNDATIONS, UTILITIES, CATCH BASINS AND OTHER OBSTRUCTIONS SHOWN ON PLANS.
11. THE IMPERVIOUS GEO-MEMBRANE SHALL BE PLACED SO THAT IT DRAINS AWAY FROM THE FACE OF THE WALL.
12. FOR LIMITS AND DETAILS OF GROUND IMPROVEMENT SEE SHEET "FOUNDATION PLAN".
13. FOR RETAINING WALL PAY LIMITS , SEE "PAY LIMITS SHEET 1 OF 2" AND "PAY LIMITS SHEET 2 OF 2".
14. INITIAL TEMPORARY FACING REQUIRED FOR THE MSE WALL FOLLOWED BY PERMANENT FACING. THE COST OF TEMPORARY FACING INCLUDED IN "RETAINING WALL (SITE NO. X)

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

Filename: 01_092614_S1-STR-27.dgn — Border Version: 6/105

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAFTER: OSJ/ JLD
CHECKED BY: STS
SCALE AS NOTED

The City of NEW HAVEN CONNECTICUT
ENGINEER: PB AMERICAS, INC.
APPROVED BY: -
DATE: JULY 2012

PB 125 YEARS

PROJECT TITLE: ROUTE 34 EAST DOWNTOWN CROSSING

DRAWING TITLE: COLLEGE STREET MSE WALL DETAILS

PROJECT NO. 092-659
DRAWING NO. STR-27
SHEET NO.

8/22/2012 8:07:14 AM
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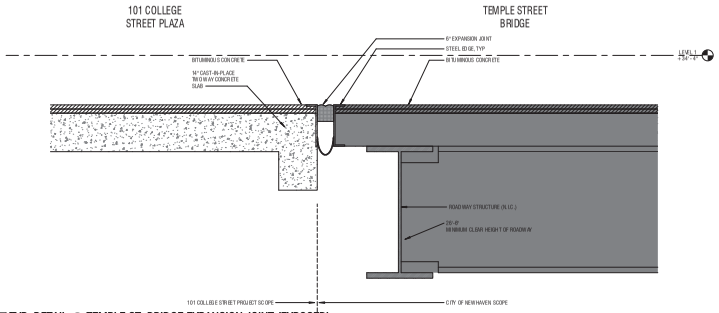
Exhibit C
Modifications to the College Street Bridge
Page 3 of 3



2 TYP. DETAIL @ TEMPLE ST. BRIDGE EXPANSION JOINT (EXPOSED)
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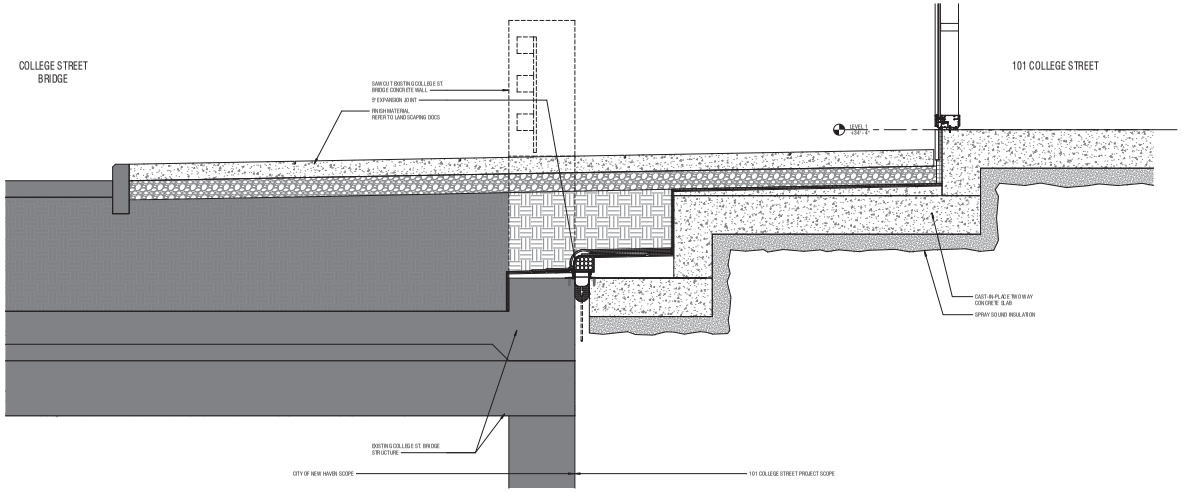

1 TYP. DETAIL @ COLLEGE ST. BRIDGE EXPANSION JOINT (CONCEALED)
SCALE: 3/4" = 1'-0" A100.5

ELKUS | MANFREDI ARCHITECTS
Suite 601 25 DRYDOCK AVENUE
BOSTON MASSACHUSETTS 02210
Tel: 617.426.1300

101 College Street

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New Haven, CT 06511
203 624 5317

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Boston, MA 02110
617 737 0040

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MEP Engineer
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781 402 6000

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Manchester, CT 06040
860 646 2469

JENSEN HUGHES
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1601 Worcester Road, Suite 601
Framingham, MA 01701
508 273 9484

PROJECT NUMBER: 19050
DATE: FEB. 5, 2020
10% & 30% TUNNEL SET
REVISIONS:
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BRIDGE DETAILS
DRAWING NUMBER:
A300

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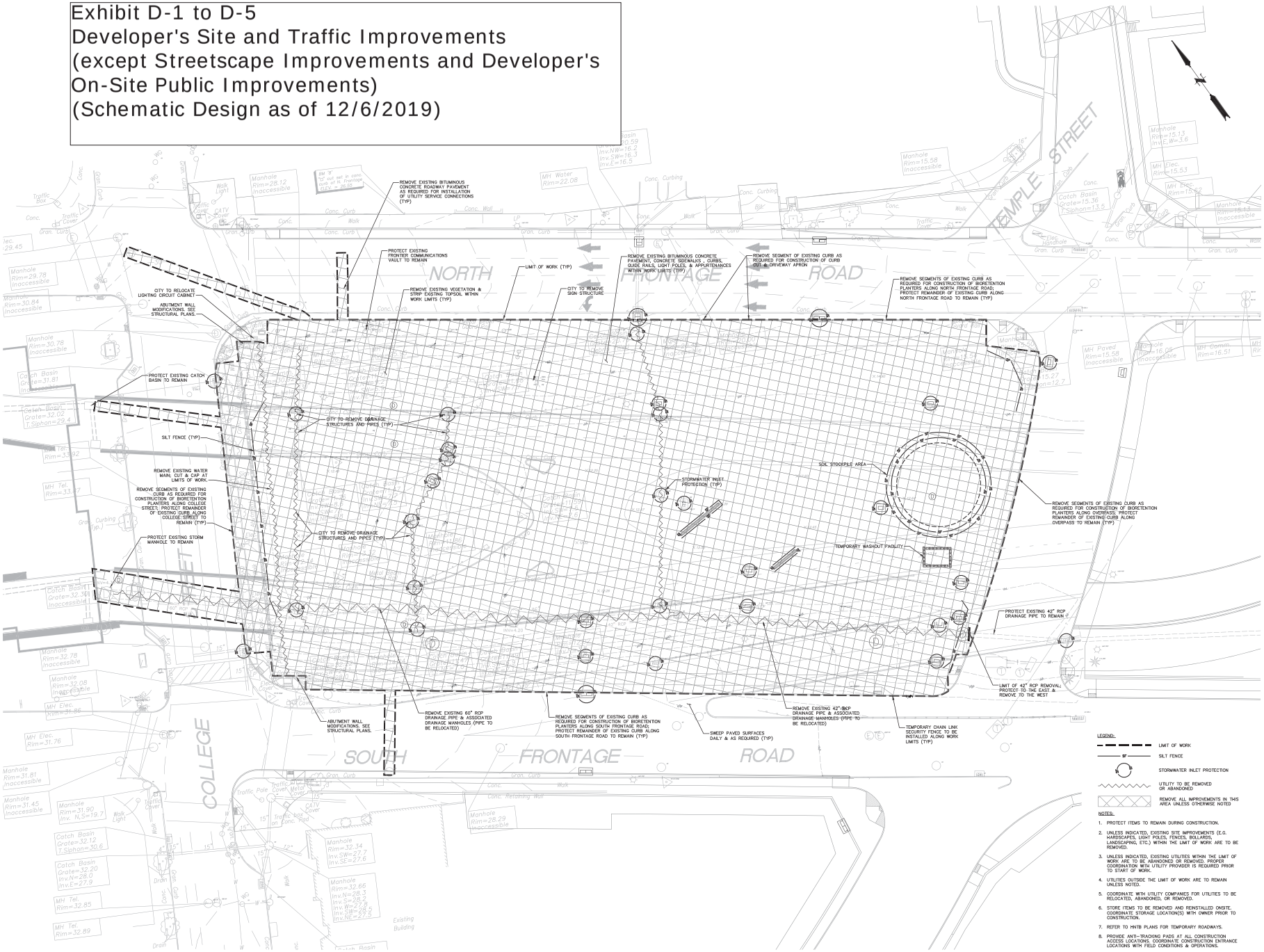
Exhibit D-1 to D-5
Developer's Site and Traffic Improvements
(except Streetscape Improvements and Developer's On-Site Public Improvements)
(Schematic Design as of 12/6/2019)



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508-273-8484

PROJECT NUMBER: 19050

DATE: DEC 6, 2019

SCHEMATIC DESIGN

REVISIONS:

SCALE: 1"=20'

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GRAPHIC SCALE

DRAWING NAME:

Site Preparation and Erosion & Sediment Control Plan

DRAWING NUMBER:

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Plotter: NONE CTB File: FC-2006-BONC.CTB
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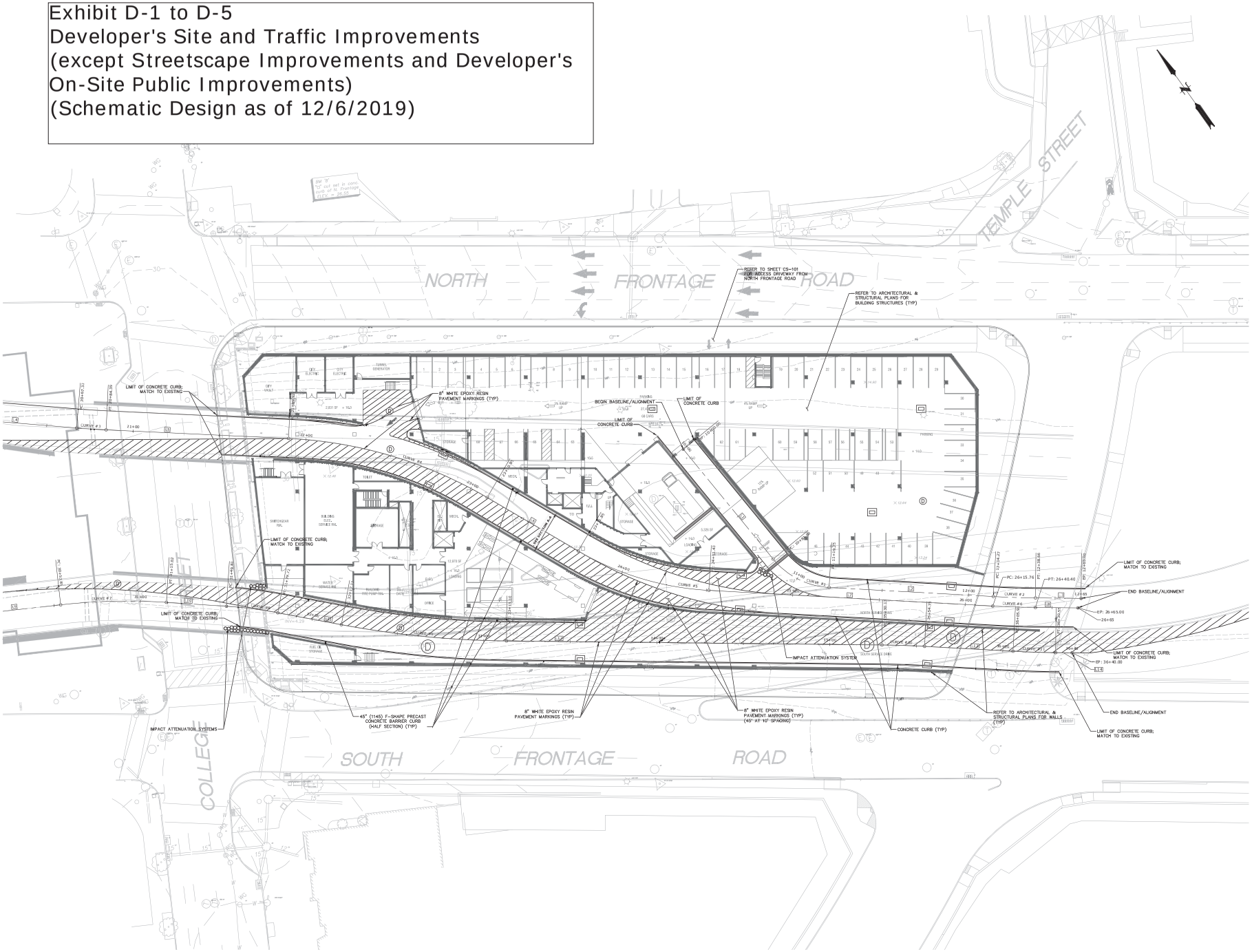
Exhibit D-1 to D-5
Developer's Site and Traffic Improvements
(except Streetscape Improvements and Developer's On-Site Public Improvements)
(Schematic Design as of 12/6/2019)



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860 646 2469

JENSEN HUGHES
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Framingham, MA 01701
508-273-8484

PROJECT NUMBER: 19050

DATE: DEC 6, 2019

SCHEMATIC DESIGN

REVISIONS:

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Basement Level

DRAWING NUMBER:
CS-102

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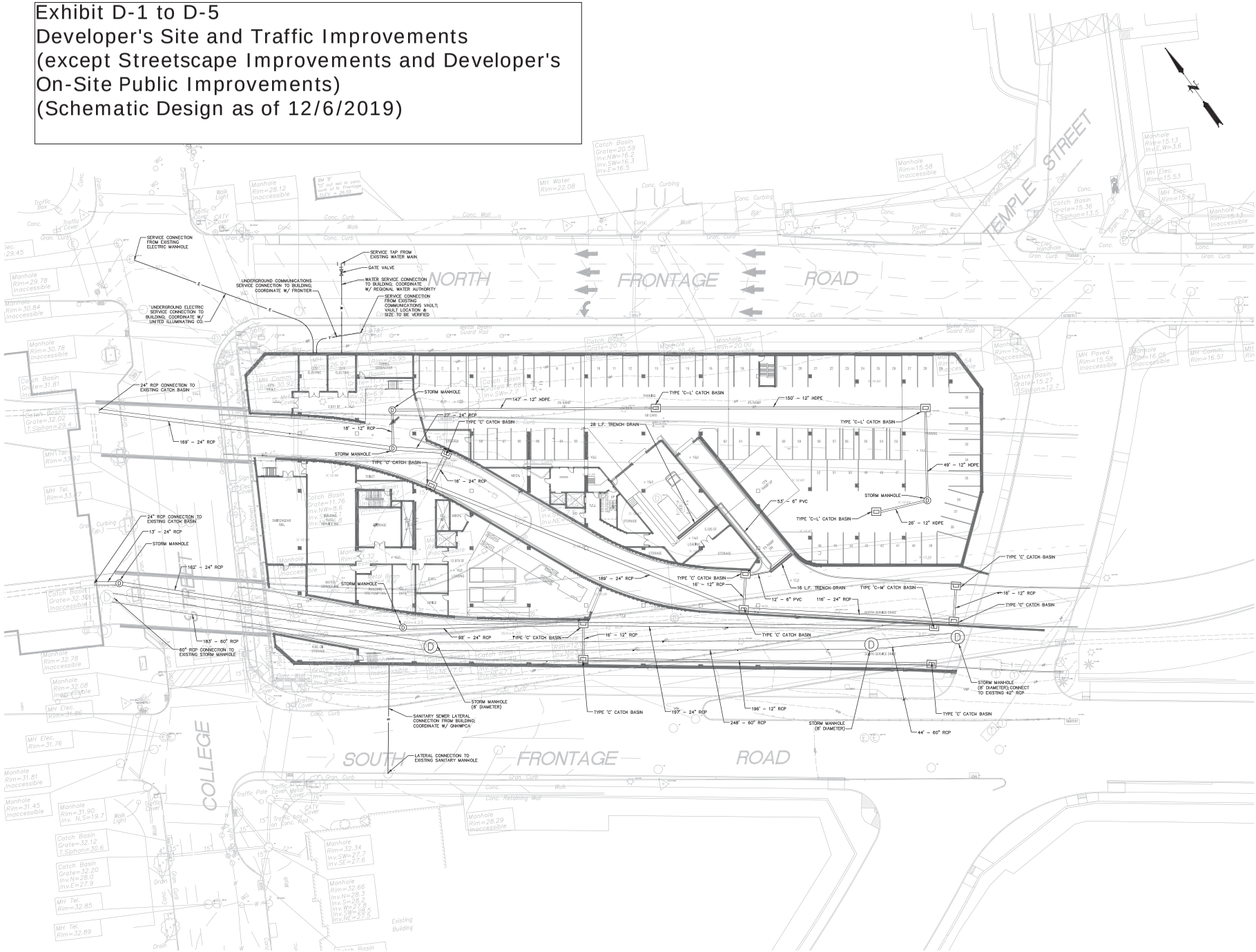
Exhibit D-1 to D-5
Developer's Site and Traffic Improvements
(except Streetscape Improvements and Developer's On-Site Public Improvements)
(Schematic Design as of 12/6/2019)



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508-273-8484

PROJECT NUMBER: 19050

DATE: DEC 6, 2019

SCHEMATIC DESIGN

REVISIONS:

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GRAPHIC SCALE

DRAWING NAME:
Site Utility Plan
Basement Level

DRAWING NUMBER:
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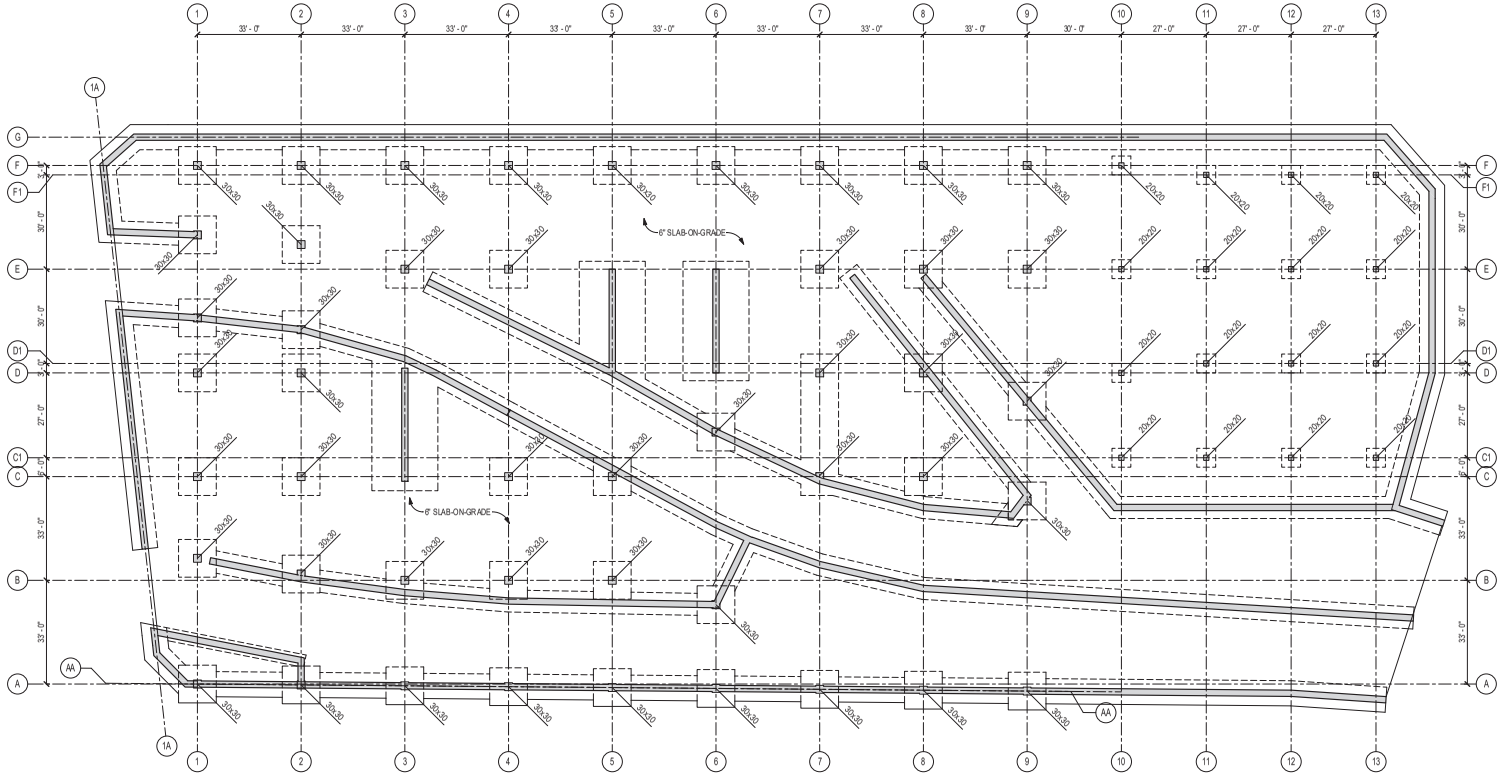
Plotter: NONE CTB File: FO 2008 MONO.CTB
© 2013, ELKUS | MANFREDI ARCHITECTS

Exhibit D-1 to D-5
Developer's Site and Traffic Improvements
(except Streetscape Improvements and Developer's On-Site Public Improvements)
(Schematic Design as of 12/6/2019)



LEVEL -1 FOUNDATION PLAN
SCALE: 1/16" = 1'-0"
NOTE: SEE S003 FOR PLAN NOTES AND DETAILS

ELKUS | MANFREDI ARCHITECTS
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101 COLLEGE STREET DEVELOPMENT

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JENSEN HUGHES
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Framingham, MA 01701
508-273-8484

PROJECT NUMBER: 19072.000

DATE: DEC 6, 2019

100% SCHEMATIC DESIGN

REVISIONS:

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LEVEL -1
FOUNDATION PLAN

DRAWING NUMBER:
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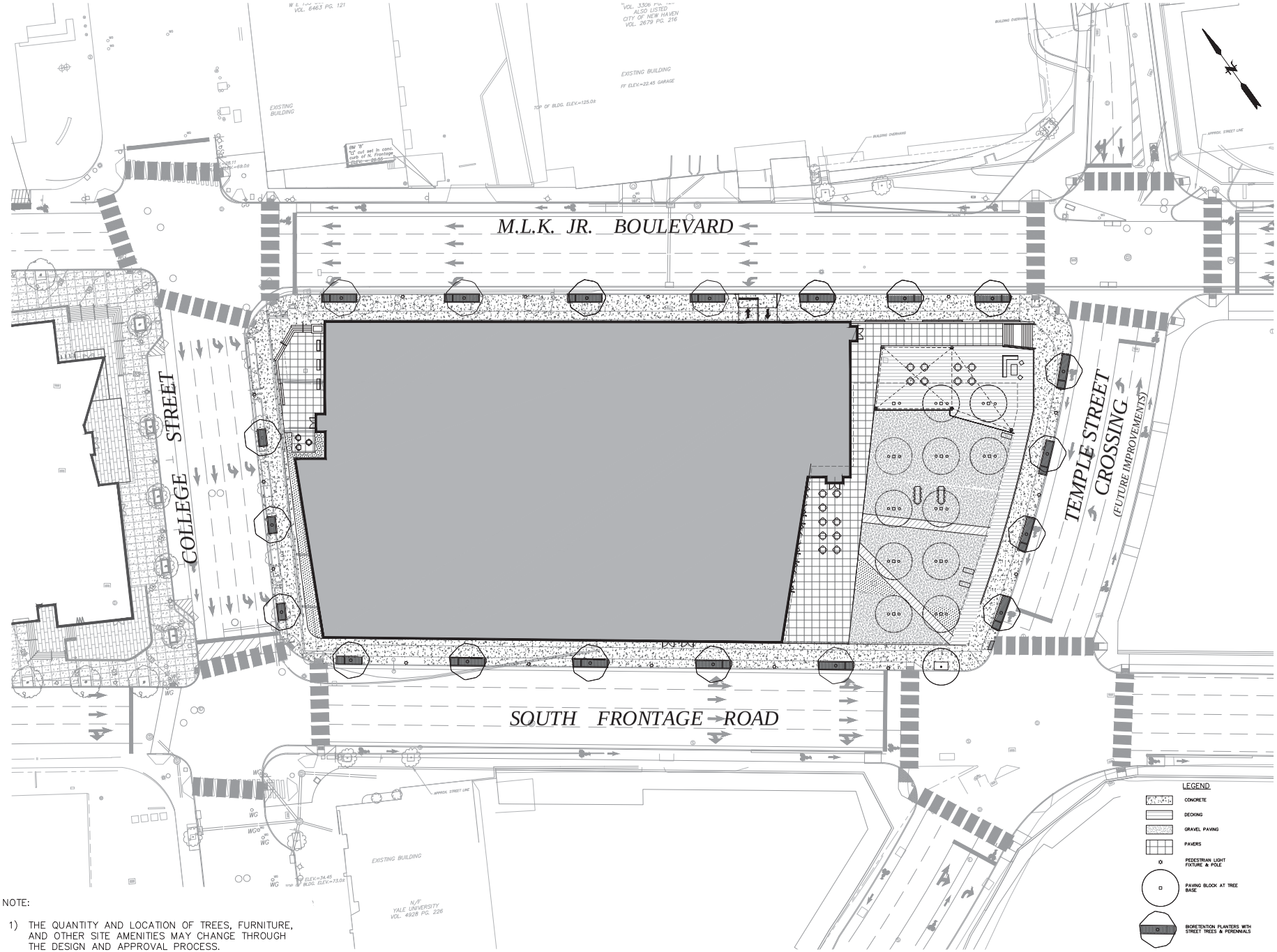

NOTE:

1) THE QUANTITY AND LOCATION OF TREES, FURNITURE, AND OTHER SITE AMENITIES MAY CHANGE THROUGH THE DESIGN AND APPROVAL PROCESS.

ELKUS | MANFREDI ARCHITECTS

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[tel] 617.426.1300

101 COLLEGE STREET DEVELOPMENT

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860 646 2469

JENSEN HUGHES
Code Consultant
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Framingham, MA 01701
508 273 8484

PROJECT NUMBER: 19050

DATE: FEB 5, 2020

REVISIONS:

SCALE: 1"=20'

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GRAPHIC SCALE

DRAWING NAME:

Streetscape Improvements and Developer's On-Site Public Improvements

DRAWING NUMBER:

EXHIBIT E

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Plotter: NONE CTB File: FO 2008 MONO.CTB

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Exhibit F

City of New Haven Base Technical Concept for Downtown Crossing – Phase 3 Temple Street dated August 2019 and Addenda through No. 13

PROJECT DESCRIPTION

The Downtown Crossing - Phase 3 Temple Street Design-Build project (Phase 3)("City's Traffic Improvements" as titled in the Development Agreement) includes a Base Bid element as well as three Bid Alternates. The decision to award bid alternates shall be made by the City of New Haven at the time of award of the Phase 3 project

The total scope of the Phase 3 project includes the following:

1. South Frontage Road roadway work includes: bike lane installation, concrete sidewalk construction, lane additions, profile raising, maintaining horizontal alignment, south abutment installation, permanent and temporary retaining wall installations, signing revisions, pavement marking revisions, milling, full depth construction, pedestrian accommodation enhancement, turf establishment, drainage installation, abutter parking restoration, signal installation at Temple Street.
2. Martin Luther King Boulevard roadway work includes: bike lane installation, concrete sidewalk construction and realignment, lane additions, profile raising, maintaining horizontal alignment, permanent retaining wall installations, signing revisions, pavement marking revisions, milling, full depth roadway construction, pedestrian accommodation enhancement, driveway apron reconstruction, parking garage profile raise, turf establishment, guiderail installation, drainage installation, signal installation at Temple Street
3. Temple Street roadway work includes: bike lane installation, ADA Ramps, full depth roadway construction, grading, bridge installation, guiderail installation, concrete sidewalk construction
4. Temple Street Parking Garage modifications include: shortening of the entrance ramp on MLK Boulevard, repositioning of the existing Parking Access and Revenue System (PARCS) equipment at that entrance, permanent closure of the exit on the corner of MLK Boulevard and Temple Street, relocation of Temple Street Garage "lollipop" sign, installation of permanent retaining wall to support the increased roadway profile on MLK Boulevard, and drainage system modifications at the MLK Boulevard exit and reset manholes. Modifications to the interior of the Garage will be performed under separate Contracts by the New Haven Parking Authority.
5. Service Drives work includes demolition of existing roadway, realignment (horizontally south and lower vertically), median installation, pavement markings, drainage installation, guiderail installation. This is limited to the western fascia of the proposed Temple Street bridge to the Church Street bridge.
6. George Street – pavement marking reconfiguration, signal updates, transformation from one way to two-way traffic operations between Temple Street and Church Street.
7. Congress Ave – Profile raise, Bike Lane installation, permanent wall installation, abutter parking restoration, pavement marking restriping, milling, full depth construction, lighting
8. Washington Ave – Milling, pavement marking restriping

Base Bid

The Base Bid shall include ALL project elements described above except as noted below in the Bid Alternates. Other elements for consideration when establishing the Base Bid are as follows:

1. Temple Street bridge
    a. Construction of the south abutment of the Temple Street bridge and construction of the foundation for the central pier/separation wall for the bridge shall be included in the Base Bid.
    b. While Bid Alternate 3 includes the construction of the Temple Street crossing other than as noted above, the final design costs associated with the entire Temple Street bridge and crossing shall be included as part of the Base Bid.
2. Retaining Wall 314 shall be constructed of steel sheeting and shall be located at the back of the proposed sidewalk east of the Temple Street crossing. The limits of wall 314 could be minimized to the extent possible based on the ability for the Contractor to transition to grading the slopes east of the Temple Street crossing. The work associated with these walls shall be paid as a unit price in the Base Bid.
3. Service Drive improvements from the west fascia of the proposed Temple Street bridge to the Church Street bridge shall be included in the Base Bid.

Bid Alternate 1 – 101 College Street Parcel

1. Service Drives within the 101 College Street parcel – As of Addendum No. 11, it shall be assumed that the work associated with this line item is being performed by the 101 College Street Development Contractor and shall therefore **NOT** be included in the Project.
2. Drainage improvements within the 101 College Street parcel - As of Addendum No. 11, it shall be assumed that the work associated with this line item is being performed by the 101 College Street Development Contractor and shall therefore **NOT** be included in this Project.
3. Retaining Wall 313 located along the north of South Frontage Road between College Street and the proposed Temple Street crossing. This wall shall be constructed of steel sheeting and shall be located at the back of the proposed sidewalk beginning east of College Street. The limits of wall 313 could be minimized to the extent possible based on the ability for the Contractor to transition to grading the slopes to the east. The work associated with these walls shall be paid as a unit price in BID ALTERNATE NO. 1. Any design costs associated with wall 313 shall be included in the Lump Sum Design-Build Price Proposal for BID ALTERNATE NO. 1.
4. Retaining Wall 312 located at the north west corner of the 101 College Street parcel. This wall shall be located at the back of the proposed sidewalk beginning east of College Street. The limits of wall 312 could be minimized to the extent possible based on the ability for the Contractor to transition to grading the slopes to the east. The work associated with these walls shall be paid as a unit price in BID ALTERNATE NO. 1. Any design costs associated with wall 312 shall be included in the Lump Sum Design-Build Price Proposal for BID ALTERNATE NO. 1.
5. Sidewalks along the south of MLK Boulevard and the north of South Frontage Road between College Street and the proposed Temple Street crossing. These sidewalks shall be constructed of bituminous concrete.
6. R-B MASH Metal beam rail and end anchorage/attachment along the south of MLK Boulevard and the north of South Frontage Road between College Street and the proposed Temple Street crossing as required. 6’ black polyvinyl coated chain link fence shall also be included in these locations.
7. Topsoil, slope and turf establishment shall be required for the snow shelf and roadway slope along:

a. The south side of MLK Boulevard between College Street and the proposed Temple Street crossing where appropriate based on slope conditions.
b. The north side of South Frontage Road between College Street and the proposed Temple Street crossing where appropriate based on slope conditions.

Bid Alternate 2 – Traffic Signals

The final design, procurement and installation of traffic and pedestrian signal equipment at the locations indicated below has been separated out as Bid Alternate 2:

1. MLK Boulevard at Temple Street intersection
2. South Frontage Road at Temple Street intersection
3. George Street at Temple Street intersection
4. George Street at Church Street intersection
5. All proposed roadway, signage and pavement marking improvements along George Street shall be included in Bid Alternate 2.
6. All proposed signage and pavement marking improvements at the intersections of MLK Boulevard at Temple and South Frontage Road at Temple Street that can only be installed along with a Traffic Signal (e.g. crosswalks, etc.).

Bid Alternate 3 – Temple Street Crossing

The following elements have been separated out as Bid Alternate 3:

1. Temple Street crossing fill section north of proposed bridge
2. Topsoil, slope and turf establishment shall be required for the snow shelf and roadway slope along the east side of the Temple Street fill section where appropriate based on slope conditions. As of Addendum No. 11, it shall be assumed that the work associated with the slope improvements along the west side of the Temple Street fill section is being performed by the 101 College Street Development Contractor and shall therefore **NOT** be included in this Project.
3. Guardrail, concrete sidewalks, fencing and handrails as required along the east side of the Temple Street fill section. As of Addendum No. 11, it shall be assumed that the work associated with above improvements along the west side of the Temple Street fill section is being performed by the 101 College Street Development Contractor and shall therefore **NOT** be included in this Project.
4. Temple Street bridge north abutment and pier stem / separation wall construction
5. Temple Street bridge superstructure installation
    a. Concrete sidewalk as well as any vertical and horizontal expansion joints between the Temple Street bridge and the sidewalk along the west side shall be installed by the 101 College Street Development Contractor
    b. All other bridge joints are to be installed by the Phase 3 Contractor
    c. The joint between the 101 College Street closure wall and the abutment shall be installed by the 101 College Street Development Contractor

Below please find a link where the latest Phase 3 documents included in this Table of Contents can be found:

New Haven Phase 3 Complete Documents for DLDA

BOOK 1 – INSTRUCTIONS TO PROPOSERS

Appendix S: Required Forms

S0.1 - Schedule of Submissions (REV. A13)
S0.2 - Conflict of Interest and Unfair Competitive Advantage Certification
S0.3 - Escrow Agreement (REV. A13)
S0.4 - Escrow Document Assembly Certification
S0.5 - Non-Collusion Affidavit
S0.6 - Price Proposal Form
S0.7 - Statement of Work Under Contract
S0.8 - Stipend Agreement (REV. A13)
S0.9 – Bid Bond
S0.10 - DBE Participation Form
S0.11 – Anticipated Source of Materials
S0.12 – Forms Available from Other Locations

BOOK 2 – TECHNICAL PROVISIONS

Appendix A.01: Mandatory Special Provisions

List of Notice to Contractors (NTC):

Contract Time and Liquidated Damages
NTC - All-Inclusive Drainage
NTC - Archaeological Monitoring Procedures
NTC - City Fiber Communications
NTC - Cold Weather Concrete Activities
NTC - Contractor Parking
NTC - Coordination with Maintenance
NTC - Early Submittals
NTC - Proprietary Items (REV. A6)
NTC - Environmental Investigations (REV A12)
NTC - Federal Wage Determinations (Davis Bacon Act)
NTC - General Permit for Stormwater Discharge
NTC - Locating Trailers on Project Site
NTC - Use of Municipal Police Officer
NTC - Potential for Asbestos Containing Materials
NTC - Salvage
NTC - Traffic Signals
NTC - Tree Removal
NTC - Yale ERUV

List of Contract Provisions

1. Federal Highway Administration (FHWA) Form 1273 (Revised May 1, 2012)
2. Title VI of the Civil Rights Act of 1964 / Nondiscrimination Requirements
3. Contractor Work Force Utilization (Federal Executive Order 11246) / Specific Equal Employment Opportunity
4. Requirements of Title 49, CFR, Part 26, Participation by DBEs
5. Contract Wage Rates
6. Americans with Disabilities Act of 1990, as Amended
7. Connecticut Statutory Labor Requirements
    a. Construction, Alteration or Repair of Public Works Projects; Wage Rates
    b. Debarment List - Limitation on Awarding Contracts
    c. Construction Safety and Health Course
    d. Awarding of Contracts to Occupational Safety and Health Law Violators Prohibited
    e. Residents Preference in Work on Other Public Facilities (Not Applicable to Federal Aid Contracts)
8. Tax Liability - Contractor's Exempt Purchase Certificate (CERT – 141)
9. Executive Orders (State of CT)
10. Non-Discrimination Requirement (pursuant to section 4a-60 and 4a-60a of the Connecticut General Statutes, as revised)
11. Whistleblower Provision
12. Connecticut Freedom of Information Act
    a. Disclosure of Records
    b. Confidential Information
13. Service of Process
14. Substitution of Securities for Retainages on State Contracts and Subcontracts
15. Health Insurance Portability and Accountability Act of 1996 (HIPAA)
16. Forum and Choice of Law
17. Summary of State Ethics Laws
18. Audit and Inspection of Plants, Places of Business and Records
19. Campaign Contribution Restriction
20. Tangible Personal Property
21. Bid Rigging and/or Fraud – Notice to Contractor
22. Consulting Agreement Affidavit
23. Federal Cargo Preference Act Requirements (46 CFR 381.7(a)-(b))

Index of Exhibits

EXHIBIT A – FHWA Form 1273 (Begins on page 14)

EXHIBIT B - Title VI Contractor Assurances (page 26)

EXHIBIT C - Contractor Work Force Utilization (Federal Executive Order 11246) / Equal Employment Opportunity (page 28)

EXHIBIT D - Health Insurance Portability and Accountability Act of 1996 (HIPAA) (page 35)

EXHIBIT E - Campaign Contribution Restriction (page 43)
EXHIBIT F - Federal Wage Rates (Attached at the end)
EXHIBIT G - State Wage Rates (Attached at the end)

Mandatory Sections

Section 1.06 - Control of Materials (REV A12)
Section 1.10 - Environmental Compliance
Section 2.86 - Drainage Trench Ex and Rock in Drainage Ex
Section 4.06 - Bituminous Concrete (REV. A2, A9, A12)
Section 5.86 - Catch Basins Manholes and Drop Inlets
Section 6.01 - Concrete for Structure (REV A12)
Section 6.03 - Structural Steel
Section 6.86 - Drainage Pipes and Drainage Pipe Ends
Section 12.00 - GPS Coordinates
Section M.03 - Portland Cement Concrete
Section M.04 - Bituminous Concrete Materials
Section M.06 – Metals

Mandatory Specifications

Item #0101000A - Environmental Health and Safety
Item #0101117A - Controlled Materials Handling (REV A12)
Item #0101128A - Securing, Construction and Dismantling of a Waste Stockpile and Treatment Area (REV A12)
Item #0202315A - Disposal of Controlled Materials (REV A12)
Item #0202318A - Management of Reusable Controlled Material (REV A12)
Item #0204213A - Handling Contaminated Groundwater (REV A12)
Item #0212300A - Processed Aggregate Subbase
Item #0219011A - Sedimentation Control System at Catch Basin
Item #0401101A - Mat Reinforcement for Concrete Pavement
Item #0406999A - Asphalt Adjustment Cost
Item #0813012A - 5'' X 18'' Granite Stone Curbing
Item #0813013A - 5'' X 18'' Granite Curved Stone Curbing
Item #0813451A - 5'' X 18'' Granite Stone Transition Curbing
Item #0921001A - Concrete Sidewalk
Item #0921005A - Concrete Sidewalk Ramp
Item #0921039A - Detectable Warning Strip
Item #0922001A - Bituminous Concrete Sidewalk
Item #0924006A - Concrete Driveway Ramp
Item #0944101A - Placing Topsoil (NEW A8)
Item #0944102A - Placing Bio-Retention Soil (NEW A8)
Item #0949132A - Root Pruning (NEW A8)

Item #0949436A - Tree Watering (NEW A8)

Item #0949XXXA - Parthenocissus Tricuspidata, Boston Ivy (NEW A8)

Item #0949XXXA - Iris Versicolor, Blue Flag Iris (NEW A8)

Item #0949XXXA - Carex Muskingumensis, Palm Sedge (NEW A8)

Item #0949XXXA - Salix Purpurea 'Nana', Dwarf Arctic Willow 18"–24" HT. B.B. (NEW A8)

Item #0949XXXA - RHUS Aromatica 'Gro-Low', Fragrant Sumac 18"–24" HT. B.B. (NEW A8)

Item #0949XXXA - Salix Babylonica, Weeping Willow 5" CAL. B.B. (NEW A8)

Item #0949XXXA - Ulmus Americana, American Elm 'Princeton' 5" CAL. B.B. (NEW A8)

Item #0949962A - Platanus Acerifolia, London Planetree 5" CAL. B.B. (NEW A8)

Item #0945301A - Mulching (NEW A8)

Item #0969030A - Project Coordinator (Minimum Bid) (REV. A2, A12, A13)

Item #0969049A - Document Control Specialist (REV A12)

Item #096905xA - Quality Control Plan (Minimum Bid) (REV A12)

Item #096905xA - Quality Management Plan (Minimum Bid) (REV A12)

Item #0970006A - Traffic Person (Municipal Police Officer)

Item #0971001A - Maintenance and Protection of Traffic (REV. A2)

Item #0973725A - Work Site Supervisor (REV A12)

Item #1002202A - Traffic Control Foundation- Mast Arm

Item #1002214A - Traffic Control Foundation-Controller - Type IV Modified

Item #1002300A - Light Standard

Item #1003585A - Decorative Light Pole with Single Luminaire (REV. A2, A12)

Item #1015041A - Pull Box

Item #1017032A - Service (Metered)

Item #1017033A - Service Cabinet

Item #1017034A - Install Service

Item #1020021A - Pole Hardware

Item #1102002A - 8' Aluminum Pedestal

Item #1102008A - 4'-4" Aluminum Pedestal

Item #1102009A - 10'Aluminum Pedestal

Item #1102010A - 12'Aluminum Pedestal

Item #1104504A - Mast Arm Assembly, 35-1W

Item #1104505A - Mast Arm Assembly, 40-1W

Item #1104507A - Mast Arm Assembly, 50-1W

Item #1104516A - Mast Arm Assembly, 45-2W

Item #1105101A - 1 Way, 1 Section Mast Arm Traffic Signal

Item #1105103A - 1 Way, 3 Section Mast Arm Traffic Signal

Item #1105180A - 1 Way, 1 Section Bi-colored Arrow

Item #1105303A - 1 Way, 3 Section Pedestal mounted Traffic Signal

Item #1106001A - 1 Way Pedestrian Signal Pole Mounted

Item #1106002A - 2 Way Pedestrian Signal Pole Mounted
Item #1106003A - 1 Way Pedestrian Signal Pedestal Mounted
Item #1106004A - 2 Way Pedestrian Signal Pedestal Mounted
Item #1107011A - Accessible Pedestrian Signal and Detector (Type A)
Item #1108187A - System Integration
Item #1108637A - Traffic Controller Cabinet Base Mounted
Item #1108650A - Advanced Transportation Controller, Model 980 ATC
Item #1108651A - Snow Emergency Blue Light
Item #1108660A - Ethernet Switch
Item #1108725A - Phase Selector (Modified)
Item #1112413A - Detector (Type A) (Modified)
Item #1112471A - Pre-emption System Chassis (Modified)
Item #1113552A - Detector Cable (Optical) (Modified)
Item #1108805A - System Testing (REV. A2, A12)
Item #1108808A – Training (REV. A2, A12)
Item #1108991A - Connected Vehicle Traffic Signal System
Item #1111200A - Temporary Detection
Item #1111600A - Extension Bracket
Item #1112286A - 360-degree Camera Assembly
Item #1112289A - 360-degree Closed Loop Video Detection Processor
Item #1113725A - 23 AWG - 4 Twisted Pair Category 6 Cable
Item #1112221A - CCTV System
Item #1112241A - Fiber Optic Cable Splice Enclosure
Item #1113030A - 12 Strand Fiber Optic Drop Cable
Item #1113606A - Optical Fiber Cable Single Mode Loose Buffer Tube Cable, 12 Fiber
Item #1113185A - 2 Strand Fiber Optic Interconnect Cable
Item #1112284A - Vehicle Detection Monitor
Item #1112288A - IP Video Detection Camera Assembly
Item #1113506A - Relocated Interconnect Cable
Item #1118012A - Removal and/or Relocation of Traffic Signal Equipment
Item #1118101A - Temporary Signalization
Item #1118123A - Internally Illuminated Street Sign
Item #1206023A - Removal and Relocation of Existing Signs
Item #1208902A - Sign Face - Sheet Aluminum (Enclosed Lens)
Item #1208930A - V-LOC Sign Post & Socket
Item #1208931A - Sign Face - Sheet Aluminum (Type IX)
Item #1209467A - Hot Applied Thermal Plastic Legends, Arrows, and Markings
Item #1209475A - Green & White Bike Facility Markings
Item #1210101A - 4-inch White Epoxy Resin Pavement Markings
Item #1210102A - 4-inch Yellow Epoxy Resin Pavement Markings

Item #1220003A- Public Information Sign (NEW A2, REV A12)

Item #1504010A - Temporary Support of Utilities

Appendix A.02: Guidance Special Provisions

Guidance Specifications

Item #0000310A - Bird Spike

Item #0201001A - Clearing and Grubbing

Item #0202451A - Test Pit Excavation

Item #0202491A - Removal of Granite Stone Curbing

Item #0202512A - Cut Concrete Sidewalk

Item #0202513A - Removal of Concrete Sidewalk

Item #0202574A - Reset Monument

Item #0406272A - Milling of Bituminous Concrete – (0 - 4 inches)

Item #0507594A - 15” Catch Basin Trap Hood

Item #050759xA - 18” Catch Basin Trap Hood

Item #050759xA - 24” Catch Basin Trap Hood

Item #050759xA - 30” Catch Basin Trap Hood

Item #0520036A - Asphaltic Plug Expansion Joint System

Item #0520041A - Preformed Joint Seal

Item #0587xxxA - Infiltration Basin

Item #0601780A - Graffiti Control

Item #0755009A - Geotextile

Item #0819002A - Penetrating Sealer Protective Compound

Item #0822061A - Temporary Precast Concrete Barrier Curb (Left in Place)

Item #0822072A - Temporary Precast Concrete Barrier Curb (Pinned)

Item #0822073A - Relocated Temporary Precast Concrete Barrier Curb (Pinned)

Item #0945005A - New England Conservation Wildlife Mix

Item #0969066A - Construction Field Office Extra Large

Item #1001001A - Trenching and Backfilling

Item #1002110A - Decorative Light Pole Foundation

Item #1002151A - Light Standard Foundation – City

Item #1003906A - Remove Light Standard

Item #1003912A - Remove Concrete Light Standard Base

Item #1003916A - Remove and Relocate Light Standard

Item #1008015A - 2” Rigid Metal Conduit - Surface

Item #1008115A - 2” Rigid Metal Conduit in Trench

Item #1008117A - 3” Rigid Metal Conduit in Trench

Item #1008217A - 3” Rigid Metal Conduit under Roadway

Item #1008317A - 3” Rigid Metal Conduit in Structure

Item #1008456A - 2” Rigid Metal Conduit under slope Protection

Item #1008908A - Clean Existing Conduit

Item #1010060A - Clean Existing Concrete Handhole

Item #1019053A - Aerial Cable (3 No. 2)

Item #1302061A - Adjust Gate Box (Water)

Item #1403501A - Reset Manhole (Sanitary Sewer)

Appendix B: Project Reference Documents

B.01 Base Technical Concept Plans

B.02 Existing Traffic Volumes

B.03 Geotechnical Information (See B.13 and B.14)

B.04 Existing Data

- B.04-1 Church Street Bridge As-Builts
- B.04-2A Phase I As-Builts (part 1)
- B.04-2B Phase 2 As-Builts (part 2)
- B.04-3 Frontier Test Pits
- B.04-4 Frontier Survey
- B.04-5 SNET Duct Bank Location
- B.04-6 Phase 2 Geotechnical Report
- B.04-7 Phase 1 Preliminary Geotechnical Report A2 (Added in Addendum No. 2)
- B.04-8 Phase 1 Task 210 Subsurface Soil Investigation Report_A2 (Added in Addendum No. 2)
- B.04-9 Phase 2 Conformed Plans_A2 (Added in Addendum No. 2)
- B.04-10 Phase 3 Supporting Documentation for NEPA Approval_A2 (Added in Addendum No. 2)
- B.04-11A Century Link Plans CT-New Haven-018 to 023 (Added in Addendum No. 2)
- B.04-11B City of New Haven Signal Communications Plan (Added in Addendum No. 2)
- B.04-11C Comcast Plans 183-371 and 184-371 (Added in Addendum No. 2)
- B.04-11D Crown Castle Plans (40-60 Temple and 100 College) (Added in Addendum No. 2)
- B.04-11E Frontier Communications Plans (Print 2A, 3A, 17A, 18A) (Added in Addendum No. 2)
- B.04-11F GNHWPCA Design Criteria and GIS Facility Map (Added in Addendum No. 2)
- B.04-11G Regional Water Authority (RWA) Project Limits Map (Added in Addendum No. 2)
- B.04-11H Southern Connecticut Gas (SCG) Plans (0-100 George Street, 0-300 Congress Avenue, 26-50 North Frontage Road, 51-100 North Frontage Road, 101-300 George Street, 0-50 College Street Ext., 51-300 College Street) (Added in Addendum No. 2)
- B.04-11I United Illuminating (UI) (BTC Utility Key Plan Markups, Drawing Nos. P-1, PP-1, PP-2 (Phase 5A), PP-2 (Phase 3), PP-3, PP-4, PP-5) (Added in Addendum No. 2)
- B.04-11J Century Link Plan CT – New Haven IXC Fiber Optic Route NH2-01 through NH2-12 (Added in Addendum No. 5)

B.04-12 Supplemental Survey From AECOM – Temple Street Pedestrian Bridge (Added in Addendum No. 2)

B.04-13 Supplemental Survey From AECOM – Frontier Structures and Drainage (Added in Addendum No. 2)

B.04-14 Temple Street Parking Garage As-Built Drawings (Added in Addendum No. 5 and Supplemented in Addendum No. 9)

B.04-15 Phase 2 Geotechnical Report (Added in Addendum No. 6)

B.04-16 George Street at Church Street Traffic Control Signal Plan As-Builts, Mast Arms Shop Drawings and Calculations (Added in Addendum No. 8)

B.04-17 George Street at Temple Street Traffic Control Signal Plan As-Builts, Mast Arm Shop Drawings and Calculations (Added in Addendum No. 8)

B.04-18 Existing Plans for 2 Church Street South, Doctors Building (Added in Addendum No. 9)

B.04-19 Existing Plans for 40 Temple Street (Added in Addendum No. 9)

B.04-19-1 Existing Plans for Pedestrian Bridge Over Temple Street (Added in Addendum 13)

B.04-20 Existing Plans for 200 George Street, Temple Street Medical Center (Added in Addendum No. 9)

B.04-21 Existing Plans for 230 George Street (Added in Addendum No. 9)

B.04-22 Existing Plans for Gateway Community College (Added in Addendum No. 9)

B.04-23 Test Pit Data – Frontier Ductbank and MLK Test Pits Pre-Conveyance Drainage Work (Added in Addendum No. 9)

B.05 Drainage Report

B.06 WSP MPT Plans (Deleted in Addendum No. 2)

B.07 WSP USA Inc Temple St. Garage Modification Plans

B.08 WSP USA Inc George Street Signal Plans

B.09 Phase 2 Task 2.10 Subsurface Investigation

B.10 CTDOT Traffic 2036 Volumes– Full Build

B.11 Phase 2 Urban Design and Landscape Concept

B.12 2007 ERUV Map

B.13 Phase 3 Geotechnical Data Report (Added in Addendum No. 5 and Supplemented in Addendum No. 6)

B.14 Phase 3 Geotechnical Technical Requirements (Added in Addendum No. 5)

B.15 Downtown Crossing Phase 2 – Baseline Schedule – Rev 3 (Added in Addendum No. 6)

B.15-1 Downtown Crossing Phase 2 – Baseline Schedule – Rev 6 (Added in Addendum No. 11)

B.16 Conceptual Landscape Plans (Added in Addendum No. 6 and updated in Addendum No. 8)

B.17 101 College Street Development Schematic Drawings (Added in Addendum No. 8)

B.17-1 Additional 101 College Street Plans – Supplemental info (Added in Addendum No. 11)

B.17-2 101 College Street Traffic Data: 2020 and 2025 TMCs (Added in Addendum No. 11)

B.17-3 101 College Street 60% Tunnels and Drives Submission - PDF (Added in Addendum No. 12)

B.17-4 101 College Street 60% Tunnels and Drives Submission - CADD (Added in Addendum No. 12)

B.18 Pre-Conveyance Drainage Design for MLK Boulevard and South Frontage Road (Preliminary - Revised) (Added in Addendum No. 8) (Replaced in Addendum No. 11)

B.19 Draft Property Map 2 Church Street South (Added in Addendum No. 9)

B.20 Draft Property Map 35 College Street (Added in Addendum No. 9) B.21 Supplemental Survey for Drainage Inverts East of Church Street (Added in Addendum No. 9)

B.22 Point in Time Studies (2015 and 2018) (Added in Addendum No. 9)

B.23 Non-Vibratory Compaction Guidelines (Added in Addendum No. 9)

B.24 Phase 2 Change Order No. 1 (Added in Addendum No. 9)

B.25 UI Distribution Concept Plan Phase 3 (Added in Addendum No. 11)

B.26 Phase 3 CADD Files (Added in Addendum No. 12)

B.27 2036 AM and PM Peak Synchro Analysis (Added in Addendum No. 13)

BOOK 3 – CONTRACT GENERAL PROVISIONS

Plans

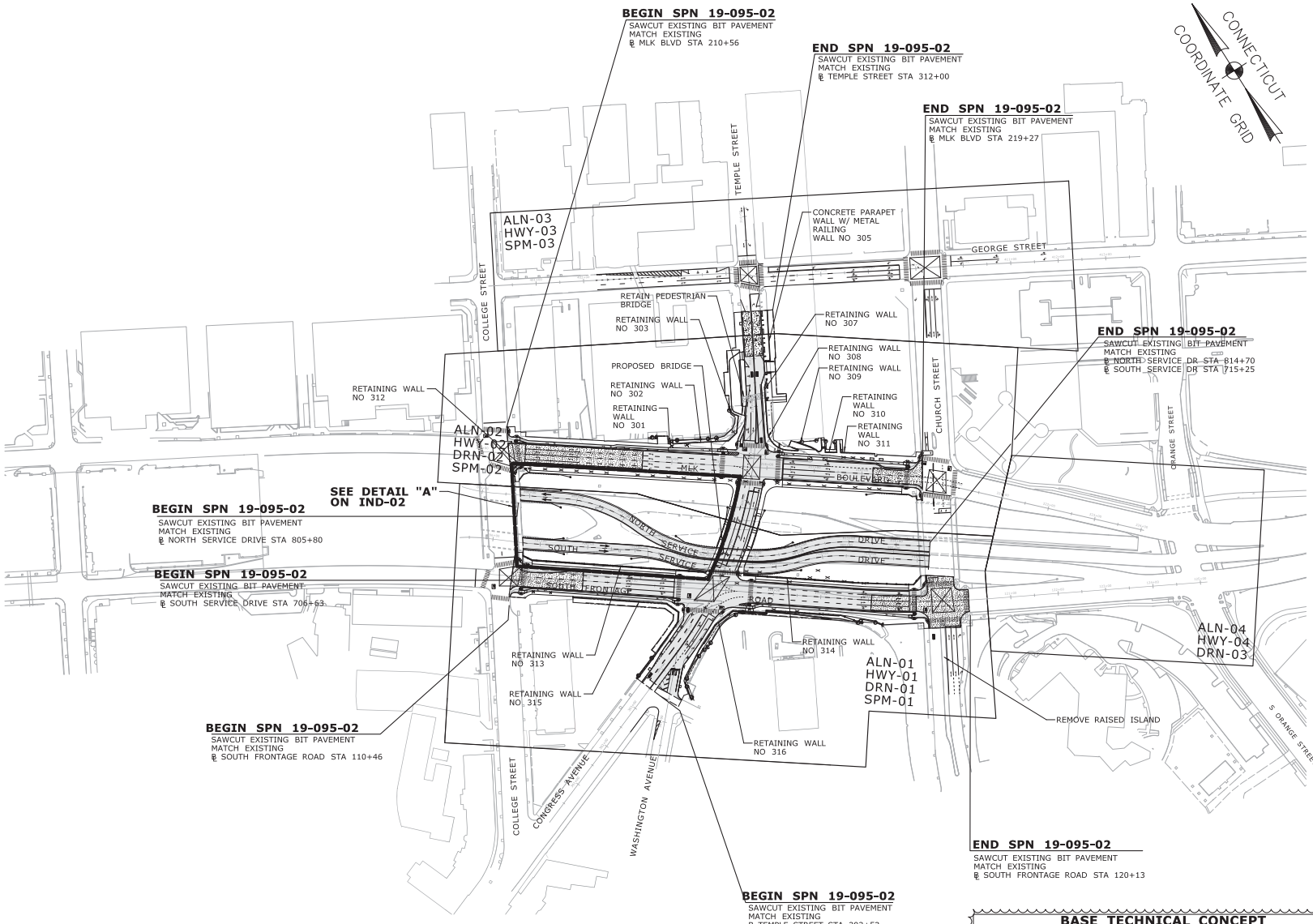
Drawing	Sheet No.	Drawing Title
	01.01	Title Sheet
REV-01	02.01.A13	Revisions
IND-00	04.02.A11	Index Plan & Existing Conditions Subset Cover Sheet
IND-01	04.02.A11	Index Plan-1
IND-02	04.02-1.A.11	Index Plan 2 with Bid Alternative No. 1
IND-03	04.02-2.A6	Index Plan 3 with Bid Alternative No. 1 **(SHEET DELETED)**
IND-03	04.02-3.A11	Index Plan 3 with Bid Alternative No. 1
IND-04	04.02-3.A6	Index Plan 4
EXC-01	04.03	Existing Conditions Plan 1
EXC-02	04.04	Existing Conditions Plan 2
EXC-03	04.05	Existing Conditions Plan 3
EXC-04	04.06	Existing Conditions Plan 4
GEN-00	05.01	General Notes Subset Cover Sheet
GEN-01	05.02	General Notes
TYP-00	06.01	Typical Sections Subset Cover Sheet
TYP-01	06.02.A2	Typical Sections MLK Boulevard
TYP-02	06.03.A3	Typical Sections South Frontage Road
TYP-03	06.04	Typical Sections Service Drives
TYP-04	06.05	Typical Sections Temple Street
TYP-05	06.06.A2	Typical Sections Temple Street
MDS-00	07.01	Miscellaneous Details Subset Cover Sheet
MDS-01	07.02	City of New Haven Miscellaneous Details
MDS-02	07.03	City of New Haven Miscellaneous Details
MDS-03	07.04	City of New Haven Miscellaneous Details
MDS-04	07.05	City of New Haven Miscellaneous Details

Drawing	Sheet No.	Drawing Title
MDS-05	07.06	Miscellaneous Details
MDS-06	07.07	Miscellaneous Details
MDS-07	07.08	Miscellaneous Details
MDS-08	07.09	Miscellaneous Details
MDS-09	07.10	Miscellaneous Details
MDS-10	07.11	Miscellaneous Details
MDS-11	07.12	Miscellaneous Details Sidewalk Ramps Sheet 1
MDS-12	07.13	Miscellaneous Details Sidewalk Ramps Sheet 2
MDS-13	07.14	Miscellaneous Details Sidewalk Ramps Sheet 3
MDS-14	07.15	Miscellaneous Details Sidewalk Ramps Sheet 4
MDS-15	07.16	Miscellaneous Details Sidewalk Ramps Sheet 5
MDS-16	07.17	Miscellaneous Details Sidewalk Ramps Sheet 6
MDS-17	07.18	Miscellaneous Details Sidewalk Ramps Sheet 7
MDS-18	07.19	Miscellaneous Details Sidewalk Ramps Sheet 8
MDS-19	07.20	Miscellaneous Details Sidewalk Ramps Sheet 9
MDS-20	07.21	Miscellaneous Details Sidewalk Ramps Sheet 10
MDS-21	07.22	Miscellaneous Details Sidewalk Ramps Sheet 11
MDS-22	07.23	Miscellaneous Drainage Details
ALN-00	08.01	Baseline Layout Plans Subset Cover Sheet
ALN-01	08.02	Baseline Layout Plan 1
ALN-02	08.03	Baseline Layout Plan 2
ALN-03	08.04	Baseline Layout Plan 3
ALN-04	08.05	Baseline Layout Plan 4
ALN-05	08.06	Baseline Curve Data Tables
HWY-00	12.01	General Roadway Plans Subset Cover Sheet
HWY-01	12.02.A2	General Roadway Plan 1 **(SHEET DELETED)**
HWY-01	12.02-1.A11	General Roadway Plan 1
HWY-02	12.03.A8	General Roadway Plan 2
HWY-03	12.04.A2	General Roadway Plan 3
HWY-04	12.05	General Roadway Plan 4
PRO-00	13.01	Profiles Subset Cover Sheet
PRO-01	13.02	Profile Temple Street **(SHEET DELETED)**
PRO-02	13.03	Profile Rev Dr MLK Jr Blvd
PRO-03	13.04	Profile South Frontage Road
PRO-04	13.05	Profile North Service Drive **(SHEET DELETED)**
PRO-05	13.06	Profile South Service Drive **(SHEET DELETED)**
PRO-06	13.07	Profile CL Service Drive Washington Avenue
DRN-00	14.01	Drainage Plans Subset Cover Sheet
DRN-01	14.02.A6	Drainage Plan 1 **(SHEET DELETED)**
DRN-01	14.02-1.A11	Drainage Plan 1
DRN-02	14.03.A2	Drainage Plan 2 **(SHEET DELETED)**

Drawing	Sheet No.	Drawing Title
DRN-02	14.03-1.A11	Drainage Plan 2
DRN-03	14.04	Drainage Plan 3
SPM-00	16.01	Signing and Pavement Marking Plans Subset Cover Sheet
SPM-01	16.02.A2	Signing and Pavement Marking General Notes
SPM-02	16.03.A2	Pavement Marking Plan 1
SPM-03	16.04.A2	Pavement Marking Plan 2
SPM-04	16.05.A2	Pavement Marking Plan 3
SPM-05	16.06	Sign Face Sheet Aluminum R Series Signs Typical Details
SPM-06	16.07	Sign Face Sheet Aluminum S & W Series Typical Details
SPM-07	16.08	Sign Face Sheet Aluminum D,E,I & M Series Signs Typical Details
SPM-08	16.09	City of New Haven Miscellaneous Details
SPM-09	16.10	City of New Haven Miscellaneous Details
SPM-10	16.11	City of New Haven Miscellaneous Details
ILL-01	18.01	Illumination Plans Subset Cover Sheet
ILL-02	18.02	Illumination Notes
ILL-03	18.03.A2	Illumination Details
ILL-04	18.04.A2	Conceptual Lighting Plan
INX-01	19.01	Traffic Control Signa Plan Subset Cover Sheet
TCS-01	19.02.A13	City of New Haven – Traffic Control Signal Plan
TCS-02	19.03.A13	City of New Haven – Traffic Control Signal Plan
TCS-03	19.04.A2	City of New Haven – Traffic Control Signal Plan
TCS-04	19.05.A11	City of New Haven – Traffic Control Signal Plan
TCS-05	19.06.A2	Traffic Signal Improvements Plan College Street at South Frontage Road
TCS-06	19.07	Concrete Handholes & Appurtenances
TCS-07	19.08	Pullbox and Vault Details
TCS-08	19.09	Traffic Controller Foundation – Controller Type IV (Modified)
TCS-09	19.10	Traffic Controller Cabinet City of New Haven
TCS-10	19.11	Traffic Controller Cabinet City of New Haven
TCS-11	19.12	Mast Arm Assembly Foundation
TCS-12	19.13	Mast Arm Assembly Elevations
TCS-13	19.14	Mast Arm Assembly Details
MPT-00	21.00.A2	Maintenance and Protection of Traffic Subset Cover Sheet
MPT-01	21.01.A6	MPT - Bypass
XSC-00	23.01	Cross Section Plans Subset Cover Sheet
CXS-01	23.02	Critical Cross Section S. Frontage Rd 114+00 – 115+50
CXS-02	23.03	Critical Cross Sections MLK Blvd 213+31 – 213+77
CXS-03	23.04.A2	Critical Cross Sections MLK Blvd 217+00 – 218+00
CXS-04	23.05.A2	Critical Cross Sections Congress Ave & Temple Street 305+00 – 306+50
CXS-05	23.06	Critical Cross Sections Temple Street 307+50 – 310+00
CXS-06	23.07	Critical Cross Sections North Service Drive 310+50 – 312+00

Drawing	Sheet No.	Drawing Title
CXS—7	23.08	Critical Cross Sections Service Drives 901+36 **(SHEET DELETED)**
STR-00	24.01	Structural Plans Subset Cover Sheet
STR-01	24.02.A6	Temple St Bridge, Schematics, Elevations & Typical Section

RFP CNHBOP Standard IT Instruction (A11)



LEGEND:

ALN-XX	BASELINE LAYOUT PLAN
HWY-XX	GENERAL ROADWAY PLAN
DRN-XX	DRAINAGE PLAN
SPM-XX	SIGNING & PAVEMENT MARKING PLAN

FULL DEPTH PAVEMENT RECONSTRUCTION

MILL & PAVEMENT OVERLAY

BASE TECHNICAL CONCEPT
ADDENDUM NO. 6 - 01/06/20

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
2	01/06/20	UPDATED HATCHING FOR ROADWAY IMPROVEMENTS	04.01.A6
1	10/16/19	REV. INDEX PLAN FOR BID ALT NO. 1	04.01.A2

Filename: 03_092xxx_IND-01-ADD6.dgn Plotted Date: 1/6/2020

DESIGNER/DRAFTER: ZH
CHECKED BY: DS
N.T.S.

The City of **NEW HAVEN**
CONNECTICUT

ENGINEER: **HNTB Corp.**
APPROVED BY:

PROJECT TITLE:
DOWNTOWN CROSSING
PHASE 3
TEMPLE STREET

DRAWING TITLE:
INDEX PLAN-1

PROJECT NO. **19-095-02**
DRAWING NO. **IND-01**
SHEET NO. **04.01.A6**

1/6/2020 12:11:55 PM
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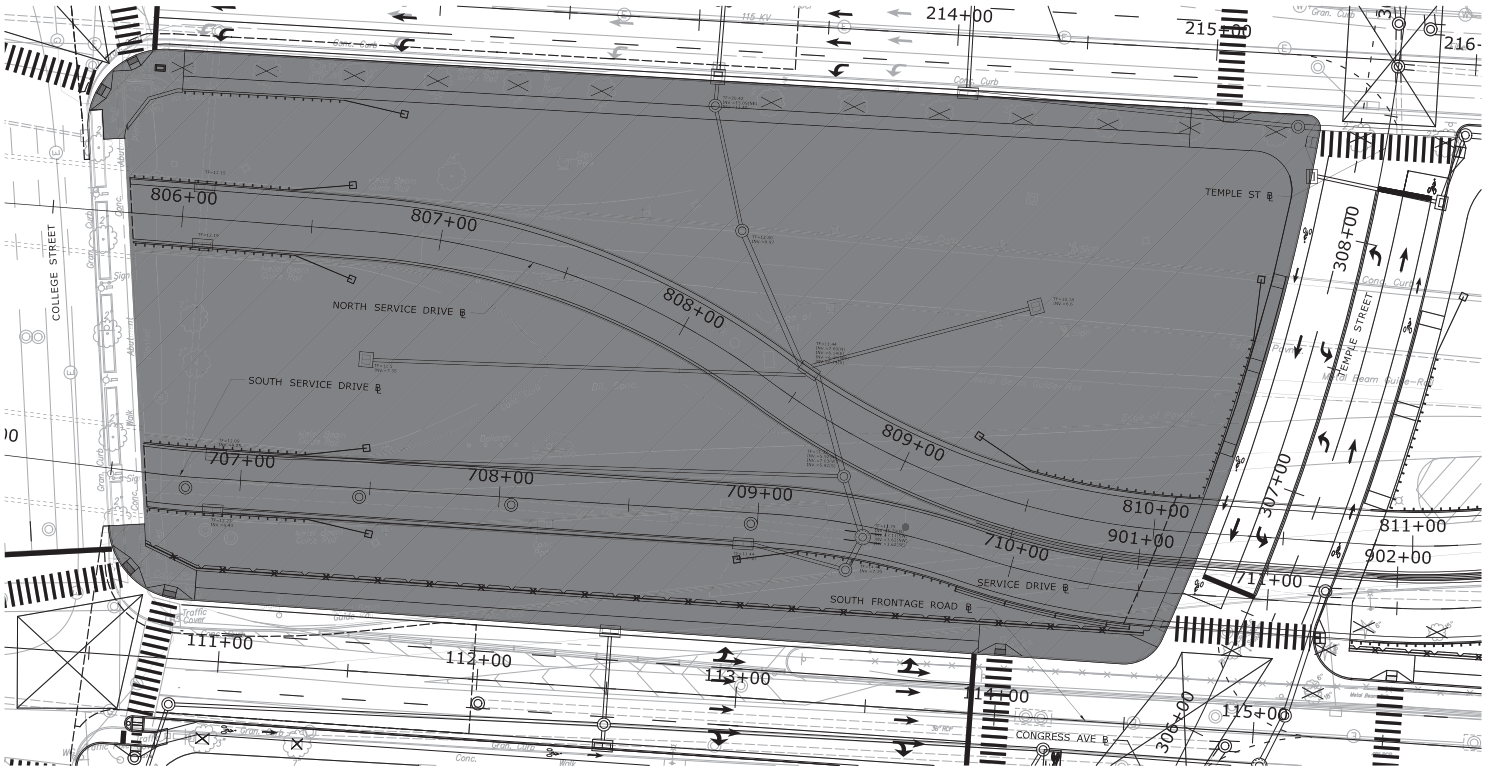

NOTES:
1. AREA SHADED AND HATCHED ILLUSTRATE THE LIMITS OF BID ALTERNATE NO. 1.

2. ELEMENTS INCLUDED ARE IDENTIFIED ON DRAWING NO. IND-03.

DETAIL "A" - BID ALTERNATE NO. 1

BASE TECHNICAL CONCEPT
ADDENDUM NO. 6 - 01/06/20

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
1	01/06/20	ADJUSTED BID ALTERNATIVE NO. 1 LIMITS	04.02.A6

Filename: 03_092xxx_IND-03-ADD6.dgn Plotted Date: 1/6/2020

DESIGNER/DRAFTER: MJH
CHECKED BY: JT
N.T.S.

The City of **NEW HAVEN CONNECTICUT**

ENGINEER: **HNTB Corp.**
APPROVED BY:

PROJECT TITLE:
DOWNTOWN CROSSING PHASE 3 TEMPLE STREET

DRAWING TITLE:
INDEX PLAN-2 WITH BID ALTERNATIVE NO. 1

PROJECT NO. **19-095-02**
DRAWING NO. **IND-02**
SHEET NO. **04.02.A6**

1/6/2020 12:20:38 PM
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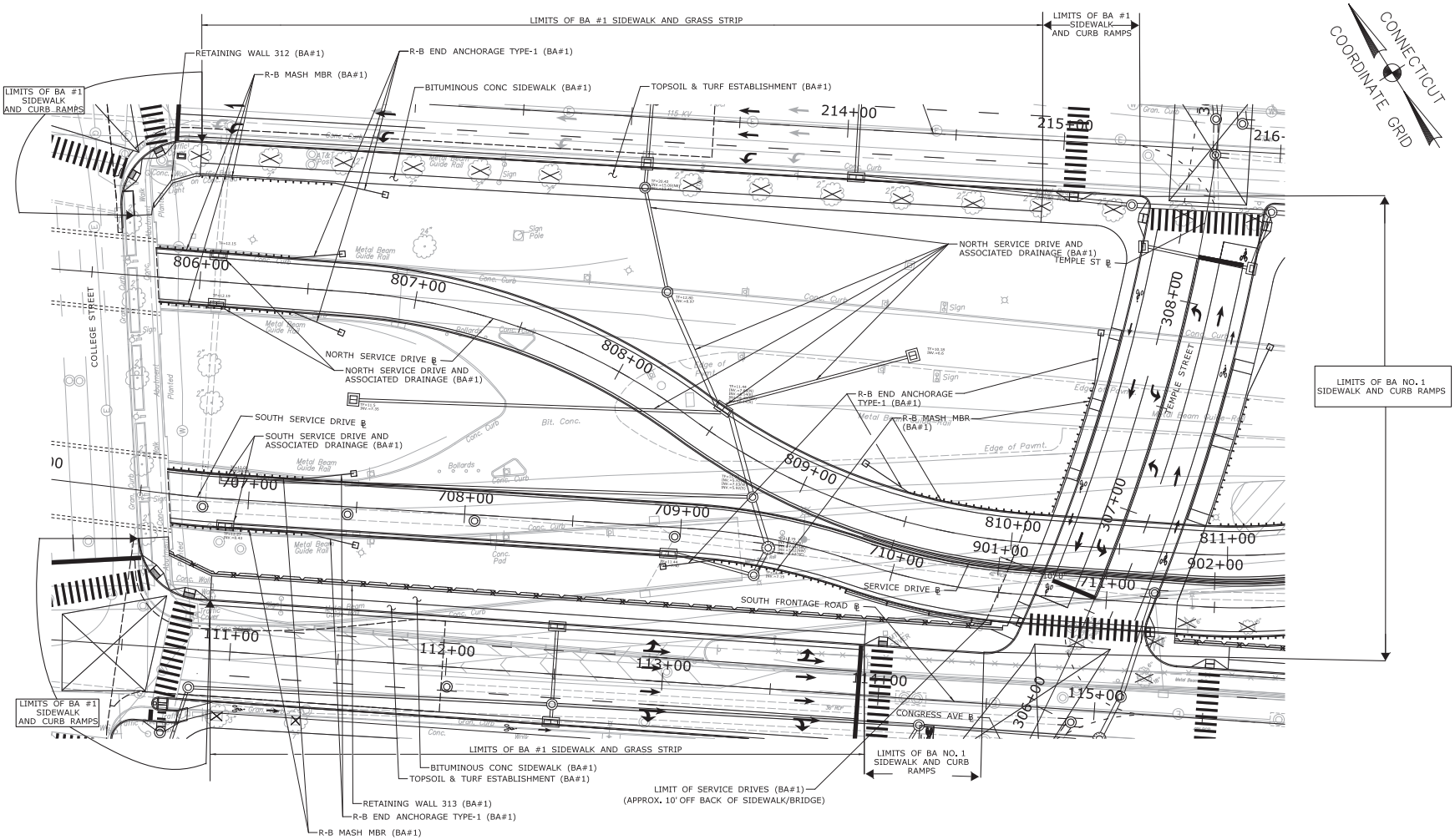

NOTES:
1. ABOVE LISTED ELEMENTS IDENTIFIED AS "(BA #1)" ARE INCLUDED IN BID ALTERNATE NO. 1.
2. LIMITS OF BID ALTERNATE NO. 1 ARE IDENTIFIED ON DRAWINGS IND-02.

DETAIL "A" - BID ALTERNATE NO. 1

BASE TECHNICAL CONCEPT
ADDENDUM NO. 6 - 01/06/20

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
1	1/06/20	ADJUSTED BID ALT NO. 1 LIMITS	04.03.A6

Filename: 03_092xxx_IND-03-ADD6.dgn Plotted Date: 1/6/2020

DESIGNER/DRAFTER: ZH/LS
CHECKED BY: DS
N.T.S.

The City of **NEW HAVEN CONNECTICUT**
ENGINEER: **HNTB Corp.**
APPROVED BY:

PROJECT TITLE: **DOWNTOWN CROSSING PHASE 3 TEMPLE STREET**

DRAWING TITLE: **INDEX PLAN-3 WITH BID ALTERNATIVE NO. 1**

PROJECT NO. **19-095-02**
DRAWING NO. **IND-03**
SHEET NO. **04.03.A6**

1/6/2020 12:27:14 PM
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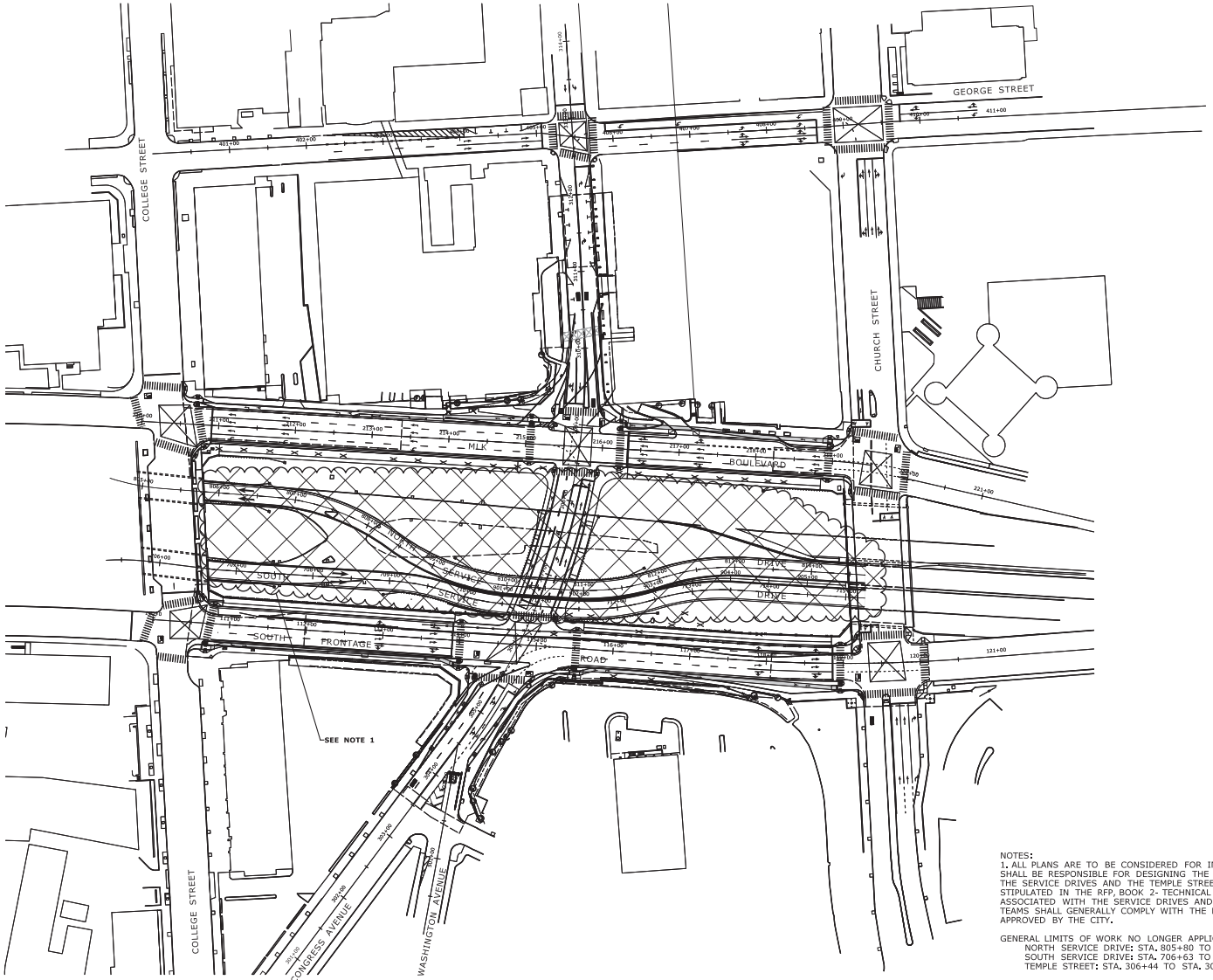

NOTES:

1. ALL PLANS ARE TO BE CONSIDERED FOR INFORMATIONAL PURPOSES ONLY. THE D-B TEAMS SHALL BE RESPONSIBLE FOR DESIGNING THE PROPOSED IMPROVEMENTS ASSOCIATED WITH THE SERVICE DRIVES AND THE TEMPLE STREET CROSSING IN COMPLIANCE WITH THE PARAMETERS STIPULATED IN THE RFP, BOOK 2- TECHNICAL PROVISIONS. FOR PROPOSED IMPROVEMENTS NOT ASSOCIATED WITH THE SERVICE DRIVES AND THE PROPOSED TEMPLE STREET CROSSING, THE D-B TEAMS SHALL GENERALLY COMPLY WITH THE BTC UNLESS AN ATC HAS BEEN SUBMITTED AND APPROVED BY THE CITY.

GENERAL LIMITS OF WORK NO LONGER APPLICABLE:
NORTH SERVICE DRIVE: STA. 805+80 TO STA. 814+70
SOUTH SERVICE DRIVE: STA. 706+63 TO STA. 715+25
TEMPLE STREET: STA. 306+44 TO STA. 308+22

BASE TECHNICAL CONCEPT - NEW SHEET ADDED BY ADDENDUM NO. 6 - 01/06/20

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

Filename: 03_092xxx_IND-04-ADD6.dgn Plotted Date: 1/6/2020

DESIGNER/DRAFTER: MJH
CHECKED BY: JT
N.T.S.

The City of **NEW HAVEN CONNECTICUT**

ENGINEER: **HNTB Corp.**
APPROVED BY:

PROJECT TITLE:
DOWNTOWN CROSSING PHASE 3 TEMPLE STREET

DRAWING TITLE:
INDEX PLAN-4

PROJECT NO. **19-095-02**
DRAWING NO. **IND-04**
SHEET NO. **04.04.A6**

1/6/2020 12:36:57 PM
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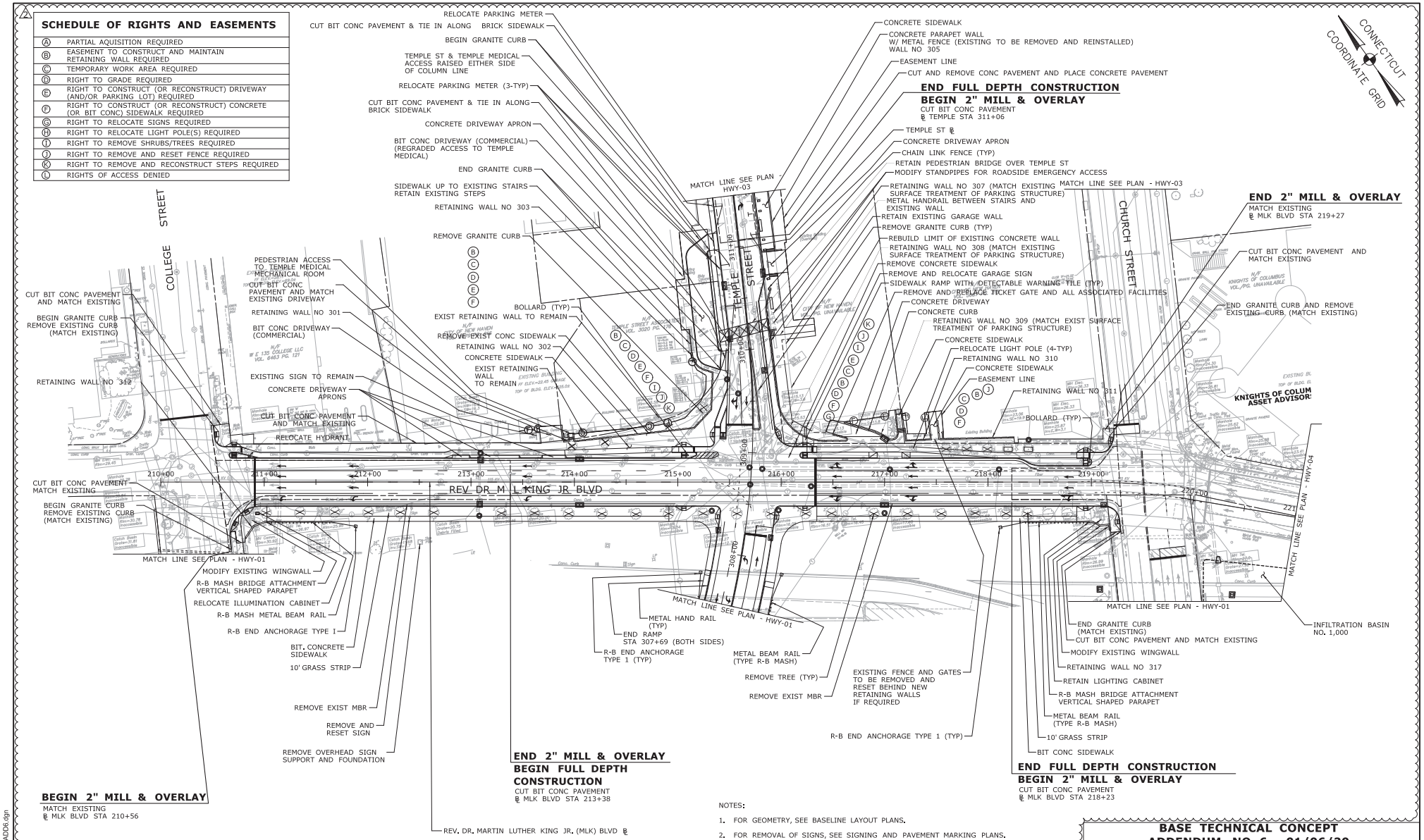
SCHEDULE OF RIGHTS AND EASEMENTS

Ⓐ	PARTIAL AQUISITION REQUIRED
Ⓑ	EASEMENT TO CONSTRUCT AND MAINTAIN RETAINING WALL REQUIRED
Ⓒ	TEMPORARY WORK AREA REQUIRED
Ⓓ	RIGHT TO GRADE REQUIRED
Ⓔ	RIGHT TO CONSTRUCT (OR RECONSTRUCT) DRIVEWAY (AND/OR PARKING LOT) REQUIRED
Ⓕ	RIGHT TO CONSTRUCT (OR RECONSTRUCT) CONCRETE (OR BIT CONC) SIDEWALK REQUIRED
Ⓖ	RIGHT TO RELOCATE SIGNS REQUIRED
Ⓗ	RIGHT TO RELOCATE LIGHT POLE(S) REQUIRED
Ⓘ	RIGHT TO REMOVE SHRUBS/TREES REQUIRED
Ⓙ	RIGHT TO REMOVE AND RESET FENCE REQUIRED
Ⓚ	RIGHT TO REMOVE AND RECONSTRUCT STEPS REQUIRED
Ⓛ	RIGHTS OF ACCESS DENIED



NOTES:

1. FOR GEOMETRY, SEE BASELINE LAYOUT PLANS.
2. FOR REMOVAL OF SIGNS, SEE SIGNING AND PAVEMENT MARKING PLANS.

BASE TECHNICAL CONCEPT ADDENDUM NO. 6 - 01/06/20

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
2	01/06/20	OVERHEAD SIGN & FOUNDATION REMOVAL ADDED	12.02.A6
1	10/16/19	BICYCLE FACILITY INCORPORATION AND CLARIFY IMPROVEMENTS	12.02.A2

Filename: 03_092xxx_HWY-02of4-ADD6.dgn Plotted Date: 1/6/2020

DESIGNER/DRAFTER: ZH
CHECKED BY: DS
SCALE IN FEET 0 40 80
SCALE 1"=40'

The City of **NEW HAVEN CONNECTICUT**

ENGINEER: **HNTB Corp.**
APPROVED BY:

PROJECT TITLE: **DOWNTOWN CROSSING PHASE 3 TEMPLE STREET**

DRAWING TITLE: **GENERAL ROADWAY PLAN-2**

PROJECT NO. 19-095-02
DRAWING NO. HWY-02
SHEET NO. 12.02.A6

1/6/2020 11:59:08 AM
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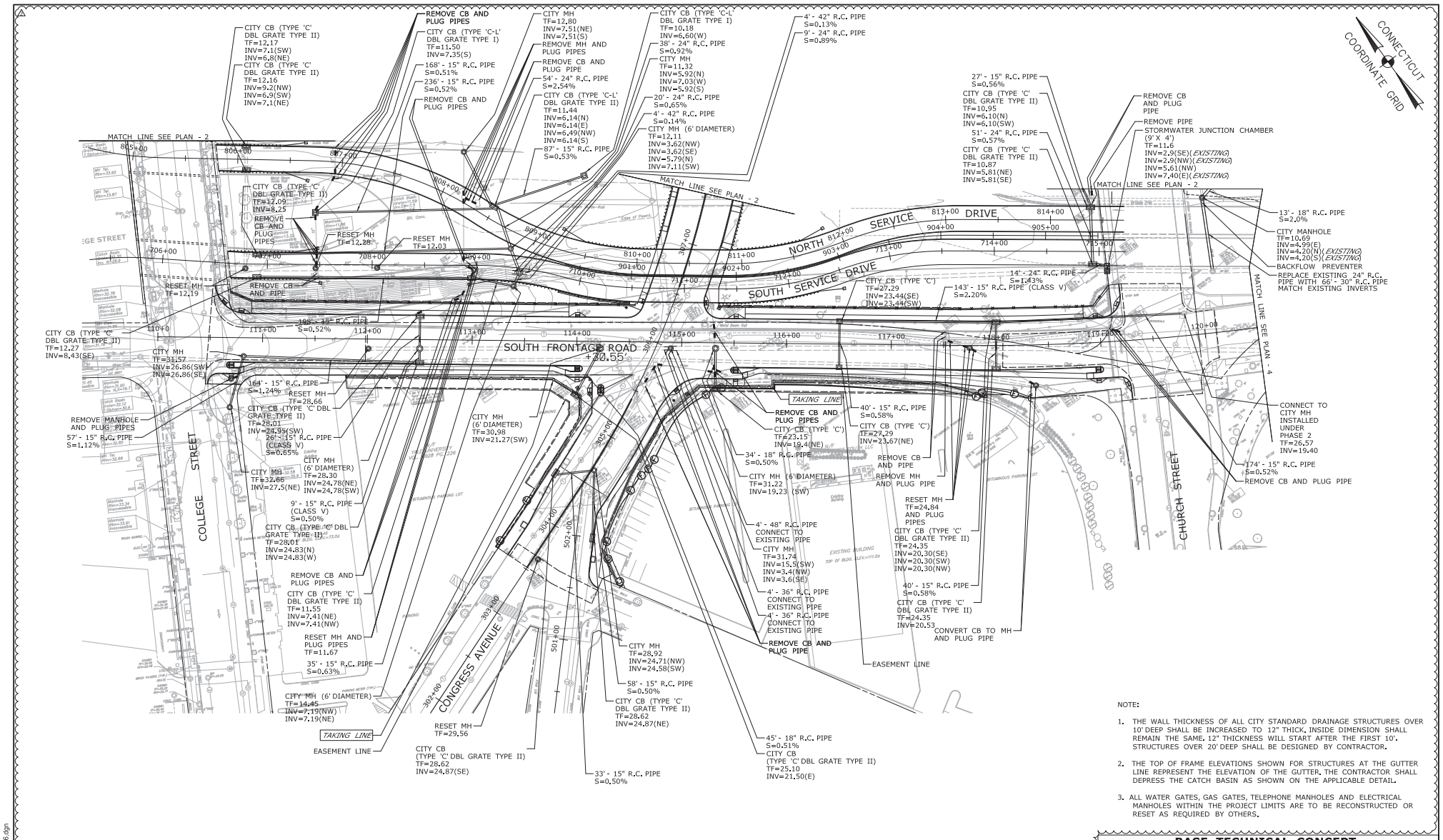

NOTE:

1. THE WALL THICKNESS OF ALL CITY STANDARD DRAINAGE STRUCTURES OVER 10' DEEP SHALL BE INCREASED TO 12" THICK. INSIDE DIMENSION SHALL REMAIN THE SAME. 12" THICKNESS WILL START AFTER THE FIRST 10'. STRUCTURES OVER 20' DEEP SHALL BE DESIGNED BY CONTRACTOR.
2. THE TOP OF FRAME ELEVATIONS SHOWN FOR STRUCTURES AT THE GUTTER LINE REPRESENT THE ELEVATION OF THE GUTTER. THE CONTRACTOR SHALL DEPRESS THE CATCH BASIN AS SHOWN ON THE APPLICABLE DETAIL.
3. ALL WATER GATES, GAS GATES, TELEPHONE MANHOLES AND ELECTRICAL MANHOLES WITHIN THE PROJECT LIMITS ARE TO BE RECONSTRUCTED OR RESET AS REQUIRED BY OTHERS.

BASE TECHNICAL CONCEPT
ADDENDUM NO. 6 - 01/06/20

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
3	01/06/20	UPDATED DRAINAGE IMPROVEMENTS	14.01.A6
2	10/16/19	BICYCLE FACILITY INCORPORATION AND CLARIFY IMPROVEMENTS	14.01.A2

Filename: 03_092xxx_DRN-01of3-AD06.dgn Plotted Date: 1/6/2020

DESIGNER/DRAFTER: **D. LOGAN**
CHECKED BY: **S. FLORMANN**
SCALE IN FEET 0 40 80
SCALE 1"=40'

The City of **NEW HAVEN CONNECTICUT**

ENGINEER: **HNTB Corp.**
APPROVED BY:

PROJECT TITLE: **DOWNTOWN CROSSING PHASE 3 TEMPLE STREET**

DRAWING TITLE: **DRAINAGE PLAN-1**

PROJECT NO. **19-095-02**
DRAWING NO. **DRN-01**
SHEET NO. **14.01.A6**

1/6/2020 11:38:32 AM
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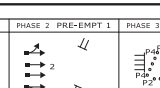
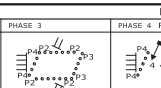
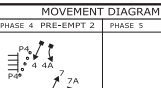
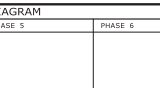
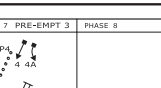
MOVEMENT DIAGRAM

NTOR	PHASE 1	PHASE 2 PRE-EMPT 1	PHASE 3	PHASE 4 PRE-EMPT 2	PHASE 5	PHASE 6	PHASE 7 PRE-EMPT 3	PHASE 8
								

FACE #	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
2	Y				G	Y	R	R	R	R	R	R	R							R	R							
4	R				R	R	R	R	R	R	G	Y	R							G	Y	R						
4A	R				R	R	R	R	R	R	G	Y	R							G	Y	R						
7	R				R	R	R	R	R	R	G	Y	R							R	R	R						
7A	R				R	R	R	R	R	R	G	Y	R							R	R	R						
P2	OFF				DW			W	DW			DW									DW							
P3	OFF				DW			W	DW			DW									DW							
P4	OFF				DW			W	DW		W	DW								W	DW							
MIN					10	3	2	18	4	0	5	3	2							5	3	1						
MAX					50	5	5	20	4	2	30	5	5							30	5	4						

INTERVALS																												
MIN GRN					15						10									10								
WALK					6			4			6									6								
PED CLR					15	COUNTDOWN PEDESTRIAN SIGNAL		15	COUNTDOWN PEDESTRIAN SIGNAL		15	COUNTDOWN PEDESTRIAN SIGNAL								15	COUNTDOWN PEDESTRIAN SIGNAL								
VEH EXT					3						3									3								
MAX 1																												
MAX 2																												
YELLOW						3			4			3									3							
RED							2.0			0			2.0									2.0						
ADD INIT																												
MAX INIT						ACCESSIBLE PEDESTRIAN SIGNAL			ACCESSIBLE PEDESTRIAN SIGNAL			ACCESSIBLE PEDESTRIAN SIGNAL									ACCESSIBLE PEDESTRIAN SIGNAL								
TBR																												
TTR																												
MIN GAP																												
MODE		OFF			MIN RECALL			NON-LOCK			NON-LOCK			OFF			OFF			NON-LOCK			OFF					
INIT START					THIS PHASE																							

DETECTORS

IDENT	SIZE (WXL)	TURNS	MODE
D2	6' x 50'	VIDEO	PRESENCE
D2A	6' x 50'	VIDEO	PRESENCE
D2B	6' x 50'	VIDEO	PRESENCE
D2C	6' x 50'	VIDEO	PRESENCE
D4	6' x 50'	VIDEO	PRESENCE
D4A	6' x 50'	VIDEO	PRESENCE
D7	6' x 50'	VIDEO	PRESENCE
D7A	6' x 50'	VIDEO	PRESENCE
SD1-SD16	6' x 6'	VIDEO	PRESENCE
BD2	4' x 10'	VIDEO	PRESENCE
BD4/BD7	9' x 17'	VIDEO	PRESENCE
BD2A	7' x 10'	VIDEO	PRESENCE
BD7A	7' x 10'	VIDEO	PRESENCE

PROGRAM / COORDINATION TYPE- CENTRAL SYSTEM

FUNCTION	T I M E	DAYS	CYCLE SEC	OFFSET SEC	OFFSET %	PHASE SPLITS SEC/% g1	g2	g3	g4	g5	g6	g7	g8	SEC/%	PERMIS PERIOD	SYSTEM OF MASTER CITY HALL
FLASH	NONE															
PATTERN 1	0600-0900	M-F	120	0	0	54	36	30	54	36	30					
PATTERN 2	ALL OTHER TIMES	DAILY	120	0	0											
PATTERN 3	0900-1500	M-F	120	0	0											
PATTERN 4	1500-1900	M-F	120	0	0	54	36	30	54	36	30					
PATTERN 5	1000-1600	SA-SU	120	0	0											
MAX 1	ALL OTHER TIMES	DAILY														
MAX 2	FUTURE															

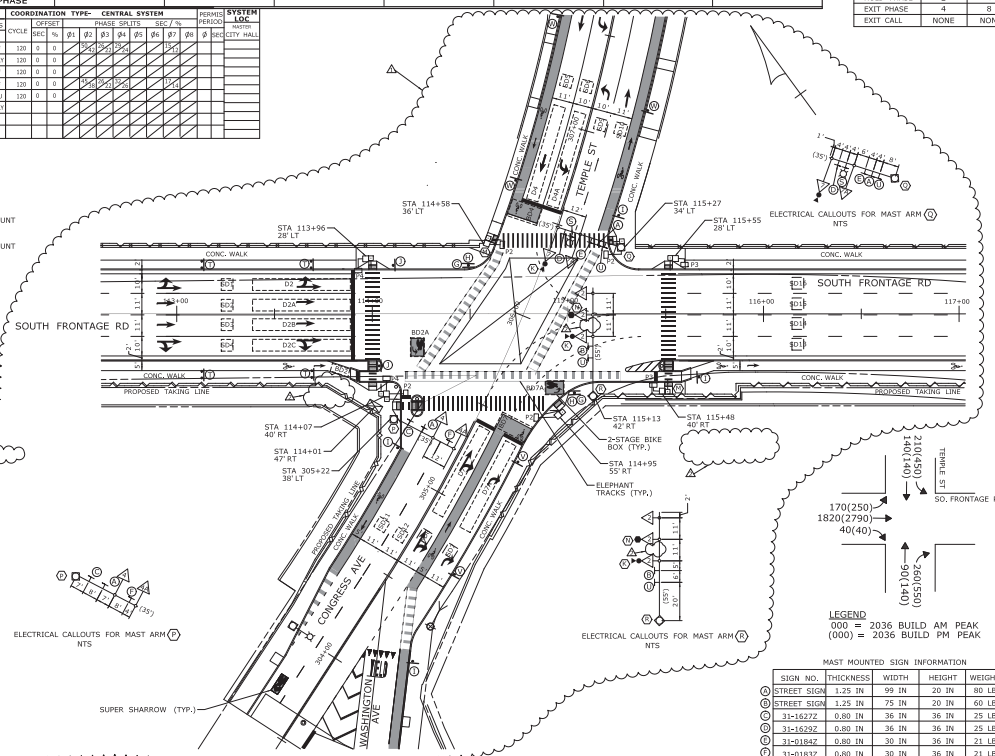
SIGN LEGEND:

- (A) ILLUMINATED SOUTH FRONTAGE RD - OVERHEAD MOUNT
- (B) ILLUMINATED TEMPLE ST / CONGRESS AV - OVERHEAD MOUNT
- (C) 31-1627Z ( ) 36"x36" - ILLUMINATED OVERHEAD MOUNT
- (D) 31-1629Z ( ) 36"x36" - ILLUMINATED OVERHEAD MOUNT
- (E) 31-0184Z (ONLY) 30"x36" - OVERHEAD MOUNT
- (F) 31-0183Z (ONLY) 30"x36" - OVERHEAD MOUNT
- (G) 31-1177Z (ONE WAY →) 36"x12"
- (H) 31-1188Z (ONE WAY ←) 36"x12"
- (I) 31-0564Z (DO NOT ENTER) 24"x18"
- (J) 31-1120Z (DO NOT BLOCK INTERSECTION) 30"x36"
- (S) CITY SIGN ( ) 24"x36" - OVERHEAD MOUNT
- (T) 31-11222 (WRONG WAY) 36"x24"
- (U) 31-0824Z (NO TURN ON RED) 24"x30"
- (V) 31-0261Z (ONLY) 30"x30"
- (W) 31-02222 (ONLY) 30"x30"

MAST ARM DATA			
ID	SHAFT HEIGHT	ARM LENGTH	YEAR INSTALLED
(P)	18'	35'	
(Q)	18'	35'	
(R)	18'	55'	

PAVEMENT MARKING NOTES:

1. WHITE CROSSWALKS SHALL BE 16" X 16" X 10' WHITE INTERNATIONAL STYLE CROSSWALK BARS.
2. WHITE STOP BAR SHALL BE 24" WIDE.
3. CITY ROADWAYS: WHITE SKIP LINES SHALL BE 9' LINE AND 15' GAP. GUIDE LINES SHALL BE 3' LINE AND 5' GAP.
4. ALL CROSSWALKS, PAVEMENT ARROWS, LEGENDS, AND STOP BARS ON CITY ROADWAYS SHALL BE THERMOPLASTIC. ALL OTHER CITY ROADWAY PAVEMENT MARKINGS SHALL BE EPOXY RESIN TYPE 1 MARKINGS.
5. ALL PAVEMENT MARKINGS TO BE MAINTAINED BY THE CITY OF NEW HAVEN.



MAST MOUNTED SIGN INFORMATION					
SIGN NO.	THICKNESS	WIDTH	HEIGHT	WEIGHT#	
(A) STREET SIGN	1.25 IN	99 IN	20 IN	80 LBS	
(B) STREET SIGN	1.25 IN	75 IN	20 IN	60 LBS	
(C) 31-1627Z	0.80 IN	36 IN	36 IN	25 LBS	
(D) 31-1629Z	0.80 IN	36 IN	36 IN	25 LBS	
(E) 31-0184Z	0.80 IN	30 IN	36 IN	21 LBS	
(F) 31-0183Z	0.80 IN	30 IN	36 IN	21 LBS	

TECHNICAL NOTES

1. STANDARD OVERLAP SKIP FEATURES APPLY
2. MANUAL AND INTERVAL ADVANCE PHASE TO BE DISCONNECTED DURING PHASE 3 PEDESTRIAN CLEARANCE INTERVAL.
3. PHASE SPLITS SHOWN REPRESENT PRELIMINARY COORDINATION DATA.
4. (C) COUNTDOWN ONLY DURING FLASHING PEDESTRIAN CLEARANCE INTERVAL.
5. (D) P3 PEDESTRIAN PUSH BUTTONS TO ACTUATE PHASE 3 ONLY.
6. TIMING SHOWN REFLECT FREE OPERATION. ACTUAL PHASE SPLITS TO BE DETERMINED BY THE COORDINATION PROGRAM.
8. PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.

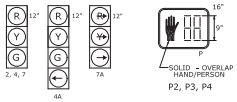
PHASE 3 - AUDIBLE WALK INDICATION SHALL BE PERCUSSIVE TONE.

PHASE 4 - SPEECH WALK MESSAGE - "S. FRONTAGE RD. WALK SIGN ON TO CROSS S. FRONTAGE RD."

OFFICE RECORD

REV #	TIR #	SM #	SIGNAL REVISED:
	REVISED TIMINGS ETC...		

SIGNAL FACES



ALL INDICATIONS TO HAVE L.E.D. LAMPS.

PRE-EMPTION SETTINGS

	PRE-EMPT 1	PRE-EMPT 2	PRE-EMPT 3
PRIORITY	NO	NO	NO
DET. LOCK	YES	YES	YES
DELAY	0	0	0
ALT. MIN. GRN	5	5	5
ALT. YELLOW	PARENT	PARENT	PARENT
ALT. RED	PARENT	PARENT	PARENT
ALT. PED. CLR.	18	18	18
HOLD GREEN	15	15	15
HOLD YELLOW	3.0	3.0	3.0
HOLD RED	2.0	2.0	2.0
HOLD PHASE	2	4	8
EXIT PHASE	4	8	2
EXIT CALL	NONE	NONE	NONE

CONSTRUCTION NOTES

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW, UNLESS OTHERWISE NOTED.

THE CONTRACTOR SHALL STAKE OUT ALL R.O.W. PRIOR TO EXCAVATION. ALL WORK, INCLUDING ALL FOUNDATIONS, ARE TO BE WITHIN THE EXISTING R.O.W.

EXISTING TWO SIDED STREET NAME SIGNS ARE TO BE RELOCATED TO NEW MAST ARM SHAFT AND BE PAID FOR UNDER ITEM #1206023A.

CONTRACTOR TO INSTALL ADVANCED TRANSPORTATION CONTROLLER, MODEL 980 ATC IN A CITY OF NEW HAVEN CABINET ON A CONTROLLER FOUNDATION AS SHOWN ON THE PLAN. CONCRETE PAD TO BE INSTALLED AS NEEDED. CABINET DOOR TO OPEN AWAY FROM THE ROADWAY.

ALL REMOVED TRAFFIC SIGNAL EQUIPMENT (POLES, CONTROLLER/CABINET, AND SIGNAL HEADS) AND SIGNS (STOP SIGNS, POST MOUNTED "NO TURN ON RED SIGNS", AND REDUNDANT SIGNING) REMAIN CITY OF NEW HAVEN PROPERTY AND SHALL BE DELIVERED TO CITY OF NEW HAVEN TRAFFIC AND PARKING LOCATED AT 42 MIDDLETOWN AVENUE, NEW HAVEN, CONNECTICUT. CONTACT MR. ROBERT YORK AT (203)-946-8080.

ALL HANDHOLES ARE 30" x 30". CONTRACTOR SHALL INSTALL HANDHOLES APPROXIMATELY 1 FOOT BEHIND THE BACK OF CURB UNLESS OTHERWISE NOTED.

THE CONTRACTOR SHALL TELEPHONE "CALL BEFORE YOU DIG" AT 1-800-922-4455 48 HOURS PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL CONTACT UTILITY REPRESENTATIVES AND TOWN AGENCIES TWO WEEKS PRIOR TO INSTALLATION.

THE CONTRACTOR SHALL NOTIFY CITY OF NEW HAVEN TRANSPORTATION, TRAFFIC & PARKING 48 HOURS PRIOR TO START OF WORK. CONTACT MR. BIJAN NOTGHI AT (203)-946-8069.

THE CONTRACTOR SHALL REMOVE EXISTING PAVEMENT MARKINGS WHERE DIRECTED BY THE CITY IN ORDER TO INSTALL NEW PAVEMENT MARKINGS AS SHOWN ON THE PLANS, UTILIZING NON-DESTRUCTIVE METHODS ACCEPTED BY THE CITY AND CT DOT.

TRAFFIC SIGNAL FOUNDATIONS WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE FIELD LOCATED BY THE CONTRACTOR TO PROVIDE A FREE PATH OF NOT LESS THAN 4 FEET. ANY PROPOSED REVISIONS TO THE LOCATIONS OF THE APPURTENANCES SHOWN ON THE PLANS MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY OF NEW HAVEN DEPARTMENT OF TRAFFIC AND PARKING PRIOR TO INSTALLATION.

THE CONTRACTOR WILL BE REQUIRED TO TRIM TREE BRANCHES AT EACH APPROACH TO OBTAIN CLEAR SIGHT LINE TO THE SIGNAL HEADS. TREE BRANCHES SHALL BE TRIMMED BACK TO THE CURB LINE FOR A MINIMUM OF 300 FT BACK FROM EACH STOP BAR. THIS WORK SHALL BE PAID UNDER ITEM NO. 0952001A "SELECTIVE CLEARING AND THINNING"

THE CONTRACTOR SHALL REPLACE IN KIND ALL DISTURBED AREAS (CURBING, SIDEWALK, STAMPED CONCRETE ETC.) ASSOCIATED WITH THE CONSTRUCTION OF SIGNAL EQUIPMENT. THE LIMIT OF WORK ASSOCIATED WITH THE CONSTRUCTION OF SIGNAL EQUIPMENT SHALL BE A MINIMUM OF TEN (10) FEET BEYOND DISTURBED AREAS IN ALL DIRECTIONS UNLESS OTHERWISE SPECIFIED. THE SIDEWALK SHALL BE RESTORED WITHIN 48 HOURS OF DISTURBANCE. THIS SHALL BE PAID FOR UNDER THE ASSOCIATED CONTRACT ITEM.

CONTRACTOR SHALL INSTALL RISER ON MAST ARMS BEHIND THE SIGNAL HEADS FOR INSTALLING 360 DEGREE VIDEO CAMERA 30' ABOVE ROADWAY. CONTRACTOR SHALL REFER TO SPECIAL PROVISIONS FOR THE TYPICAL INSTALLATION DETAIL FOR CAMERAS MOUNTED ON EXTENSION BRACKETS AND RISERS.

(K) VIDEO DETECTION BY 360 DEGREE CAMERA. INSTALL TWO CAMERAS AT THE INTERSECTION.

THE OPTICAL DETECTOR AND 360 DEGREE VIDEO DETECTOR ZONE LOCATIONS ARE FOR ILLUSTRATION ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR HIS/HER DESIGNATED REPRESENTATIVE. DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS WITHOUT SPLICES BETWEEN EACH OPTICAL DETECTOR / VIDEO DETECTOR AND THE CONTROLLER CABINET.

VIBROTACTILE ARROWS SHALL BE LOCATED ON PUSHBUTTONS AND SHALL BE ALIGNED PARALLEL TO THE DIRECTION OF TRAVEL ON THE ASSOCIATED CROSSWALK.

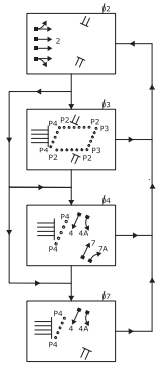
INSTALL SIGN #31-0845 FOR EACH PEDESTRIAN PUSHBUTTON.

FOR FIBER OPTIC CABLE INFORMATION SEE COMMUNICATIONS INTERCONNECT PLANS.

PROPOSED STEEL MAST ARM SYMBOLS ARE NOT TO SCALE. MAST ARMS MUST BE INSTALLED AT LEAST 2' FROM THE EDGE OF ROAD.

(M) INSTALL PEDESTAL FOUNDATION AT BACK CORNER OF RAMP LANDING AREA AS SHOWN ON THE PLAN.

(N) CCTV CAMERA SHALL BE AXIS Q6000E INTEGRATED WITH AXIS Q60E PTZ CAMERA.



REPRESENTATIVE	UTILITY	TELEPHONE
GIOVANNI ZINN	CITY OF NEW HAVEN	(203) 946-6417
SCOTT WESTERVELT	CITY OF NEW HAVEN	(203) 946-7700
BIJAN NOTGHI	CITY OF NEW HAVEN	(203) 946-8069
JIM BITZAS	COMCAST OF CONNECTICUT	(413) 642-8582
ERIC CLARK	CROWN CASTLE FIBER	(203) 649-3904
LYNNE DELUCIA	FRONTIER COMMUNICATIONS	(203) 238-5000
THOMAS SGROI	GNHWPCA	(203) 466-5280
FRED ARNOLD	UNITED ILLUMINATING COMPANY	(203) 499-3922
KEVIN GERETY	THE SOUTHERN CONNECTICUT GAS COMPANY	(203) 795-7767
LAWRENCE MARCIK	SO. CENT. CT. REGIONAL WATER AUTHORITY	(203) 401-6709
DAVID VEGA	CENTURYLINK	(917) 207-4604
MATT ROBINSON	MAGELLAN MIDSTREAM PARTNERS, LP	(918) 574-7004

NO.	DATE	REVISION DESCRIPTION
2	01/06/20	REMOVE WRONG WAY DETECTION SYSTEM
1	10/16/19	BICYCLE FACILITY AND PAVEMENT MARKING UPDATES

LEGEND:
R, Y, G RED, YEL, GRN
RED ARROW
YELLOW ARROW
GREEN ARROW
W WALK/ PED. CLR
D.W. DON'T WALK
FL. FLASHING

PROPOSED WOOD SPAN POLE
EXISTING WOOD SPAN POLE
PROPOSED STEEL SPAN POLE
EXISTING STEEL SPAN POLE
PROPOSED UTILITY POLE
EXISTING UTILITY POLE
PEDESTAL MOUNTING
PEDESTRIAN PUSH BUTTON & SIGN
DIRECTIONAL ARW. FOR PUSH BUTTON
BLUE LIGHT AND SIGN

TRAFFIC SIGNAL FACE
PEDESTRIAN SIGNAL FACE
DET. LEADS IN SAW CUT
PROPOSED RMC (RIGID METAL CONDUIT)
EXISTING RMC (RIGID METAL CONDUIT)
AUXILIARY TERMINATION CABINET
AUXILIARY EQUIPMENT CABINET
VIDEO DETECTION ZONE
INCIDENT MANAGEMENT CAMERA (IMC)

PROPOSED CONTROLLER
EXISTING CONTROLLER
LOOP DETECTOR
SD SYSTEM DETECTOR
WRONG WAY DETECTOR
OPTICAL DETECTOR
VIDEO DETECTOR
AUDIO DETECTOR

VC VIDEO CAMERA CABLE
CABLE CLOSURE
WIRELESS SENSOR
WIRELESS RECEIVER
WIRELESS TRANSCEIVER
GUY WIRE
PROPOSED HANDHOLE
EXISTING HANDHOLE

DATE PLOTTED : 12/17/2019

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

DOWNTOWN CROSSING PHASE 3
TEMPLE STREET AND
SOUTH FRONTAGE STREET

SCALE 1" = 30'

BASE TECHNICAL CONCEPT - ADDENDUM NO. 5

	TRAFFIC DESIGN	ELECTRICAL DESIGN
ENGINEER	CVZ	Full Name
DRAWN BY	SNB	Full Name
CHECKED BY	RSG	Full Name
SUBMITTED BY	VN ENGINEERS, INC.	Full Name
APPROVED BY	Full Name	Full Name
APPROVED DATE	-/-/-	-/-/-

CITY SIGNAL

REV # INTERSECTION #

ENERGY BY	ADDRESS #
MAINT LEVEL	SERVICE POLE
	METERED OR UNMETERED SERVICE

TOWN: **CITY OF NEW HAVEN**

DRAWING TITLE: **TRAFFIC CONTROL SIGNAL PLAN**

PROJECT NO. 092-XXXX
DRAWING NO. TCS-01
SHEET NO. 19.01.A6

12/17/2019 11:21:26 AM
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MOVEMENT DIAGRAM

NTOR	PHASE 1	PHASE 2 PRE-EMPT 1	PHASE 3	PHASE 4 PRE-EMPT 2	PHASE 5	PHASE 6	PHASE 7 PRE-EMPT 3	PHASE 8

FACE #	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
2					G	Y	R	R	R	R	R	R	R							R	R	R			
4					R	R	R	R	R	R	G	Y	R							R	R	R			
4A					R	R	R	R	R	R	G	Y	R							R	R	R			
7					R	R	R	R	R	R	G	Y	R							G	Y	R			
7A					R	R	R	R	R	R	G	Y	R							G	Y	R			
P2					WØ	DW		WØ	DW			DW									DW				
P3						DW		WØ	DW			DW									DW				
P4						DW		WØ Ⓓ	DW		WØ Ⓓ	DW								WØ	DW				
						YIELD PT																			
MIN					24	3	2	22	4	0	19	3	2							19	3	2			
MAX					41	5	5	22	4	2	33	5	5							19	5	5			

INTERVALS	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
MIN GRN		15		10			10	
WALK		6	4	4			4	
PED CLR		18	18	15			15	
VEH EXT		3		3			3	
MAX 1								
MAX 2								
YELLOW		3	4	3			3	
RED		2	0	2			2	
ADD INIT								
MAX INIT								
TBR								
TTR								
MIN GAP								
MODE	OFF	MIN RECALL	NON-LOCK	NON-LOCK	OFF	OFF	NON-LOCK	OFF / OFF
INIT START		THIS PHASE						

COUNTDOWN PEDESTRIAN SIGNAL

ACCESSIBLE PEDESTRIAN SIGNAL

DETECTORS

IDENT	SIZE (WXL)	TURNS	MODE
D2	6' x 50'	VIDEO	PRESENCE
D2A	6' x 50'	VIDEO	PRESENCE
D2B	6' x 50'	VIDEO	PRESENCE
D2C	6' x 50'	VIDEO	PRESENCE
D4	6' x 50'	VIDEO	PRESENCE
D4A	6' x 50'	VIDEO	PRESENCE
D7	6' x 50'	VIDEO	PRESENCE
D7A	6' x 50'	VIDEO	PRESENCE
SD1-SD15	6' x 6'	VIDEO	PRESENCE
BD2	4' x 10'	VIDEO	PRESENCE
BD2A/BD4	7' x 10'	VIDEO	PRESENCE
BD7	9' x 16'	VIDEO	PRESENCE

PROGRAM / COORDINATION TYPE- CENTRAL SYSTEM

FUNCTION	T I M E	DAYS	CYCLE SEC	OFFSET SEC	%	PHASE SPLITS g1	g2	g3	g4	g5	g6	g7	g8	PERMIS PERIOD SEC	SYSTEM LOC MASTER CITY HALL
FLASH	NONE														
PATTERN 1	0600-0900	M-F	120			50	30	40							
PATTERN 2	ALL OTHER TIMES	DAILY	120												
PATTERN 3	0900-1500	M-F	120												
PATTERN 4	1500-1900	M-F	120			50	30	40							
PATTERN 5	1000-1600	SA-SU	120			50	30	40							
MAX 1	ALL OTHER TIMES	DAILY	120												
MAX 2	FUTURE														

TECHNICAL NOTES

STANDARD OVERLAP SKIP FEATURES APPLY

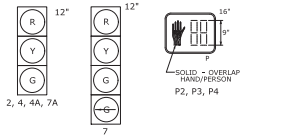
1. MANUAL AND INTERVAL ADVANCE PHASE TO BE DISCONNECTED DURING PHASE 3 PEDESTRIAN CLEARANCE INTERVAL.
2. Ⓓ COUNTDOWN ONLY DURING FLASHING PEDESTRIAN CLEARANCE INTERVAL.
4. P3 PEDESTRIAN PUSH BUTTONS TO ACTUATE PHASE 3 ONLY.
5. Ⓓ PED. FACE 4 TO DISPLAY WALK IF PHASE 4 OR PHASE 8 FOLLOWS.
6. TIMING SHOWN REFLECT FREE OPERATION. ACTUAL PHASE SPLITS TO BE DETERMINED BY THE COORDINATION PROGRAM.
7. PHASE SPLITS SHOWN REPRESENT PRELIMINARY COORDINATION DATA.
8. PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.

PHASE 3 - AUDIBLE WALK INDICATION SHALL BE PERCUSSIVE TONE.

PHASE 4 - SPEECH WALK MESSAGE - "M L KING JR BLVD WALK SIGN ON TO CROSS M L KING JR BLVD."

OFFICE RECORD

REV #	TIR #	SM #	SIGNAL REVISED:
REVISED TIMINGS ETC...			



PRE-EMPTION SETTINGS

	PRE-EMPT 1	PRE-EMPT 2	PRE-EMPT 3
PRIORITY	NO	NO	NO
DET. LOCK	YES	YES	YES
DELAY	0	0	0
ALT. MIN. GRN	5	5	5
ALT. YELLOW	PARENT	PARENT	PARENT
ALT. RED	PARENT	PARENT	PARENT
ALT. PED. CLR.	18	15	15
HOLD GREEN	15	15	15
HOLD YELLOW	3.0	3.0	3.0
HOLD RED	2.0	2.0	2.0
HOLD PHASE	2	4	8
EXIT PHASE	4	8	2
EXIT CALL	NONE	NONE	NONE

CONSTRUCTION NOTES

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW, UNLESS OTHERWISE NOTED.

THE CONTRACTOR SHALL STAKE OUT ALL R.O.W. PRIOR TO EXCAVATION. ALL WORK, INCLUDING ALL FOUNDATIONS, ARE TO BE WITHIN THE EXISTING R.O.W.

EXISTING TWO SIDED STREET NAME SIGNS ARE TO BE RELOCATED TO NEW MAST ARM SHAFT AND BE PAID FOR UNDER ITEM #1206023A.

CONTRACTOR TO INSTALL ADVANCED TRANSPORTATION CONTROLLER, MODEL 980 ATC IN A CITY OF NEW HAVEN CABINET ON A CONTROLLER FOUNDATION AS SHOWN ON THE PLAN. CONCRETE PAD TO BE INSTALLED AS NEEDED. CABINET DOOR TO OPEN AWAY FROM THE ROADWAY.

ALL REMOVED TRAFFIC SIGNAL EQUIPMENT (POLES, CONTROLLER/CABINET, AND SIGNAL HEADS) AND SIGNS (STOP SIGNS, POST MOUNTED "NO TURN ON RED SIGNS", AND REDUNDANT SIGNING) REMAIN CITY OF NEW HAVEN PROPERTY AND SHALL BE DELIVERED TO CITY OF NEW HAVEN TRAFFIC AND PARKING LOCATED AT 42 MIDDLETOWN AVENUE, NEW HAVEN, CONNECTICUT. CONTACT MR. ROBERT YORK AT (203)-946-8080.

ALL HANDHOLES ARE 30" x 30". CONTRACTOR SHALL INSTALL HANDHOLES APPROXIMATELY 1 FOOT BEHIND THE BACK OF CURB UNLESS OTHERWISE NOTED.

THE CONTRACTOR SHALL TELEPHONE "CALL BEFORE YOU DIG" AT 1-800-922-4455 48 HOURS PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL CONTACT UTILITY REPRESENTATIVES AND TOWN AGENCIES TWO WEEKS PRIOR TO INSTALLATION.

THE CONTRACTOR SHALL NOTIFY CITY OF NEW HAVEN TRANSPORTATION, TRAFFIC & PARKING 48 HOURS PRIOR TO START OF WORK. CONTACT MR. BIJAN NOTGHI AT (203)-946-8069.

THE CONTRACTOR SHALL REMOVE EXISTING PAVEMENT MARKINGS WHERE DIRECTED BY THE CITY IN ORDER TO INSTALL NEW PAVEMENT MARKINGS AS SHOWN ON THE PLANS, UTILIZING NON-DESTRUCTIVE METHODS ACCEPTED BY THE CITY AND CT DOT.

TRAFFIC SIGNAL FOUNDATIONS WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE FIELD LOCATED BY THE CONTRACTOR TO PROVIDE A FREE PATH OF NOT LESS THAN 4 FEET. ANY PROPOSED REVISIONS TO THE LOCATIONS OF THE APPURTENANCES SHOWN ON THE PLANS MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY OF NEW HAVEN DEPARTMENT OF TRAFFIC AND PARKING PRIOR TO INSTALLATION.

THE CONTRACTOR WILL BE REQUIRED TO TRIM TREE BRANCHES AT EACH APPROACH TO OBTAIN CLEAR SIGHT LINE TO THE SIGNAL HEADS. TREE BRANCHES SHALL BE TRIMMED BACK TO THE CURB LINE FOR A MINIMUM OF 300 FT BACK FROM EACH STOP BAR. THIS WORK SHALL BE PAID UNDER ITEM NO. 0952001A "SELECTIVE CLEARING AND THINNING"

THE CONTRACTOR SHALL REPLACE IN KIND ALL DISTURBED AREAS (CURBING, SIDEWALK, STAMPED CONCRETE ETC.) ASSOCIATED WITH THE CONSTRUCTION OF SIGNAL EQUIPMENT. THE LIMIT OF WORK ASSOCIATED WITH THE CONSTRUCTION OF SIGNAL EQUIPMENT SHALL BE A MINIMUM OF TEN (10) FEET BEYOND DISTURBED AREAS IN ALL DIRECTIONS UNLESS OTHERWISE SPECIFIED. THE SIDEWALK SHALL BE RESTORED WITHIN 48 HOURS OF DISTURBANCE. THIS SHALL BE PAID FOR UNDER THE ASSOCIATED CONTRACT ITEM.

CONTRACTOR SHALL INSTALL RISER ON MAST ARMS BEHIND THE SIGNAL HEADS FOR INSTALLING 360 DEGREE VIDEO CAMERA 30' ABOVE ROADWAY. CONTRACTOR SHALL REFER TO SPECIAL PROVISIONS FOR THE TYPICAL INSTALLATION DETAIL FOR CAMERAS MOUNTED ON EXTENSION BRACKETS AND RISERS.

Ⓚ VIDEO DETECTION BY 360 DEGREE CAMERA. INSTALL TWO CAMERAS AT THE INTERSECTION.

THE OPTICAL DETECTOR AND VIDEO DETECTOR ZONE LOCATIONS ARE FOR ILLUSTRATION ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR HIS/HER DESIGNATED REPRESENTATIVE. DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS WITHOUT SPLICES BETWEEN EACH OPTICAL DETECTOR / VIDEO DETECTOR AND THE CONTROLLER CABINET.

VIBROTACTILE ARROWS SHALL BE LOCATED ON PUSHBUTTONS AND SHALL BE ALIGNED PARALLEL TO THE DIRECTION OF TRAVEL ON THE ASSOCIATED CROSSWALK.

INSTALL SIGN #31-0845 FOR EACH PEDESTRIAN PUSHBUTTON.

FOR FIBER OPTIC CABLE INFORMATION SEE COMMUNICATIONS INTERCONNECT PLANS.

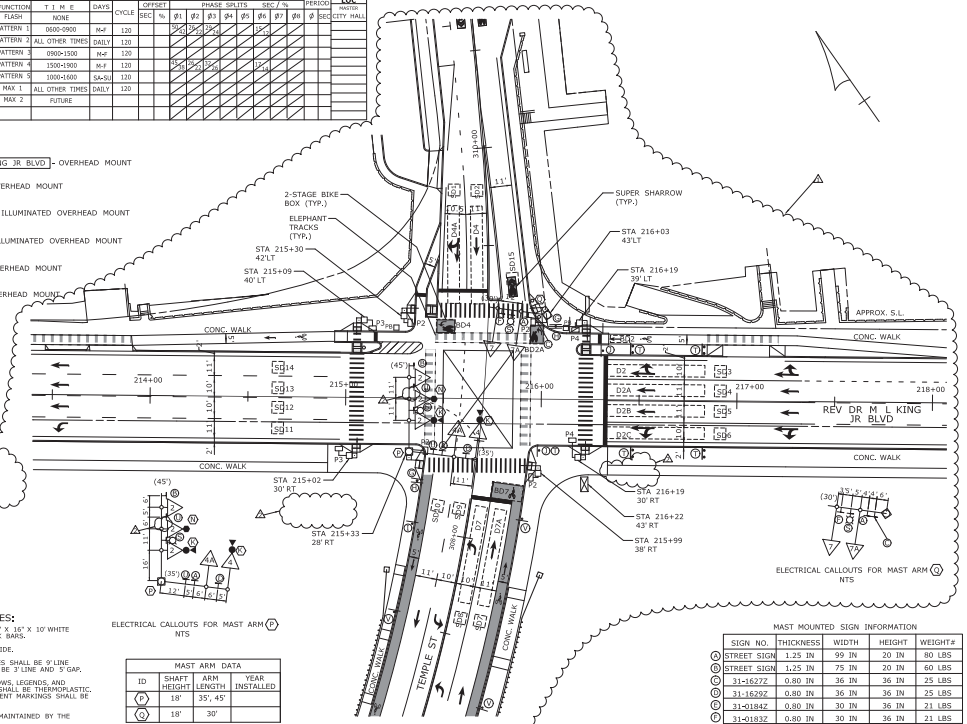
PROPOSED STEEL MAST ARM SYMBOLS ARE NOT TO SCALE. MAST ARMS MUST BE INSTALLED AT LEAST 2' FROM THE EDGE OF ROAD.

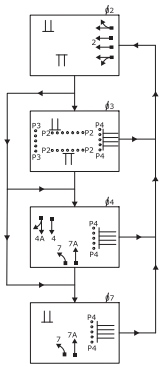
Ⓜ INSTALL PEDESTAL FOUNDATION AT BACK CORNER OF RAMP LANDING AREA, AS SHOWN ON THE PLAN.

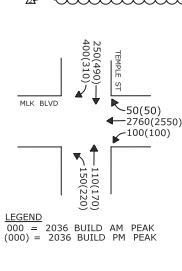
Ⓝ CCTV CAMERA SHALL BE AXIS Q6000E INTEGRATED WITH AXIS Q60E PTZ CAMERA.

SIGN LEGEND:

- Ⓐ ILLUMINATED REV DR M L KING JR BLVD - OVERHEAD MOUNT
- Ⓑ ILLUMINATED TEMPLE ST - OVERHEAD MOUNT
- Ⓒ 31-1627Z ( ) 36" x 36" - ILLUMINATED OVERHEAD MOUNT
- Ⓓ 31-1629Z ( ) 36"x36" - ILLUMINATED OVERHEAD MOUNT
- Ⓔ 31-0184Z ( ) 30"x36" - OVERHEAD MOUNT
- Ⓕ 31-0183Z ( ) 30"x36" - OVERHEAD MOUNT
- Ⓖ 31-1177Z (ONE WAY ⟶) 36"X12"
- Ⓗ 31-1188Z (ONE WAY ⟵) 36"X12"
- Ⓘ 31-0564Z ( ) 24"X18"
- Ⓙ 31-1120Z ( ) 30"x36"
- Ⓢ CITY SIGN ( ) 24"x36" - OVERHEAD MOUNT
- Ⓣ 31-1122Z ( ) 36"x24"
- Ⓤ 31-0824Z ( ) 24"x30"
- Ⓥ 31-0222Z ( ) 30"x30"







LEGEND
000 = 2036 BUILD AM PEAK
(000) = 2036 BUILD PM PEAK

REPRESENTATIVE	UTILITY	TELEPHONE
GIOVANNI ZINN	CITY OF NEW HAVEN	(203) 946-6417
SCOTT WESTERVELT	CITY OF NEW HAVEN	(203) 946-7700
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DAVID VEGA	CENTURYLINK	(917) 207-4604
MATT ROBINSON	MAGELLAN MIDSTREAM PARTNERS, LP	(918) 574-7004

PAVEMENT MARKING NOTES:

1. WHITE CROSSWALKS SHALL BE 16" X 16" X 10' WHITE INTERNATIONAL STYLE CROSSWALK BARS.
2. WHITE STOP BAR SHALL BE 24" WIDE.
3. CITY ROADWAYS: WHITE SKIP LINES SHALL BE 9' LINE AND 15' GAP. GUIDE LINES SHALL BE 3' LINE AND 5' GAP.
4. ALL CROSSWALKS, PAVEMENT ARROWS, LEGENDS, AND STOP BARS ON CITY ROADWAYS SHALL BE THERMOPLASTIC. ALL OTHER CITY ROADWAY PAVEMENT MARKINGS SHALL BE EPOXY RESIN TYPE 1 MARKINGS.
5. ALL PAVEMENT MARKINGS TO BE MAINTAINED BY THE CITY OF NEW HAVEN.

MAST ARM DATA

ID	SHAFT HEIGHT	ARM LENGTH	YEAR INSTALLED
P	18'	35', 45'	
Q	18'	30'	

MAST MOUNTED SIGN INFORMATION

	SIGN NO.	THICKNESS	WIDTH	HEIGHT	WEIGHT#
A	STREET SIGN	1.25 IN	99 IN	20 IN	80 LBS
B	STREET SIGN	1.25 IN	75 IN	20 IN	60 LBS
C	31-1627Z	0.80 IN	36 IN	36 IN	25 LBS
D	31-1629Z	0.80 IN	36 IN	36 IN	25 LBS
E	31-0184Z	0.80 IN	30 IN	36 IN	21 LBS
F	31-0183Z	0.80 IN	30 IN	36 IN	21 LBS

NO.	DATE	REVISION DESCRIPTION
2	01/06/20	REMOVE WRONG WAY DETECTION SYSTEM
1	10/16/19	BICYCLE FACILITY AND PAVEMENT MARKING UPDATES

LEGEND:
R, Y, G RED, YEL, GRN
RED ARROW
YELLOW ARROW
GREEN ARROW
WØ WALK/ PED. CLR
D.W. DON'T WALK
FL. FLASHING

PROPOSED WOOD SPAN POLE
EXISTING WOOD SPAN POLE
PROPOSED STEEL SPAN POLE
EXISTING STEEL SPAN POLE
PROPOSED UTILITY POLE
EXISTING UTILITY POLE
BLUE LIGHT AND SIGN
PEDESTAL MOUNTING
PEDESTRIAN PUSH BUTTON & SIGN
DIRECTIONAL ARW. FOR PUSH BUTTON

TRAFFIC SIGNAL FACE
PEDESTRIAN SIGNAL FACE
DET. LEADS IN SAW CUT
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INCIDENT MANAGEMENT CAMERA (IMC)
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SD SYSTEM DETECTOR
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OPTICAL DETECTOR
VIDEO DETECTOR
AUDIO DETECTOR

PROPOSED CONTROLLER
EXISTING CONTROLLER

VC VIDEO CAMERA CABLE
CABLE CLOSURE
WIRELESS SENSOR
WIRELESS RECEIVER
WIRELESS TRANSCEIVER
GUY WIRE
PROPOSED HANDHOLE
EXISTING HANDHOLE

DATE PLOTTED : 12/17/2019

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

DOWNTOWN CROSSING PHASE 3
TEMPLE STREET AND
REV DR M L KING JR BLVD

SCALE 1" = 30'

BASE TECHNICAL CONCEPT - ADDENDUM NO. 5

CITY SIGNAL

	TRAFFIC DESIGN	ELECTRICAL DESIGN
ENGINEER	CVZ	Full Name
DRAWN BY	SNB	Full Name
CHECKED BY	RSG	Full Name
SUBMITTED BY	VN ENGINEERS, INC.	Full Name
APPROVED BY	Full Name	Full Name
APPROVED DATE	_/_/_	_/_/_

REV # INTERSECTION #

ENERGY BY | ADDRESS #
MAINT LEVEL | SERVICE POLE
METERED OR UNMETERED SERVICE

TOWN: CITY OF NEW HAVEN

DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN

PROJECT NO. 092-XXXX
DRAWING NO. TCS-02
SHEET NO. 19.02.A6

12/17/2019 11:23:59 AM
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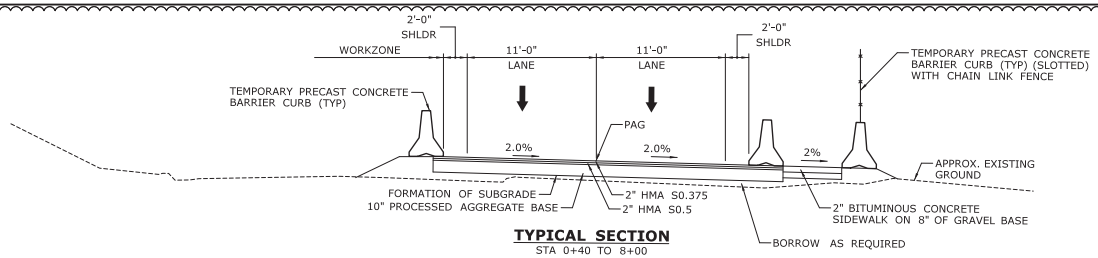
NOTES:

1. ALL AREAS DISTURBED BY THE CONSTRUCTION OF THE TEMPORARY BYPASS SHALL BE RESTORED TO THEIR PRIOR CONDITION ONCE SOUTH FRONTAGE ROAD IS FULLY OPEN TO TRAFFIC.
2. THE D-B TEAMS MAY CONSIDER MODIFYING THE FINAL GRADING OF THE 2 CHURCH STREET SOUTH PARKING LOT IN ORDER TO REDUCE THE HEIGHT OF THE PROPOSED WALL 316 AS SHOWN ON HWY-01.
3. TRASH COMPACTORS TO BE SHIFTED SOUTH. THIS WORK SHALL BE COORDINATED WITH THE OWNER.
4. ALL IMPACTED LIGHT STRUCTURES SHALL BE REMOVED FOR THE DURATION THE BYPASS IS IN PLACE AND REPLACED WHEN THE BYPASS IS NO LONGER REQUIRED. CONTRACTOR TO PROVIDE TEMPORARY ILLUMINATION.
5. THE CONTRACTOR SHALL DEVELOP A PROPOSED SIGNING PLAN ASSOCIATED WITH THE TEMPORARY BYPASS ROAD FOR REVIEW AND APPROVAL BY THE CITY AS PART OF THE OVERALL MPT SUBMITTAL PACKAGE. THIS SUBMITTAL SHALL ALSO MAKE CLEAR ANY MODIFICATIONS INCLUDING REMOVAL/TEMPORARY COVERING OF EXISTING SIGNAGE IN ADVANCE OF THE TEMPORARY BYPASS ROAD.
6. PROVIDE A TEMPORARY RETAINING WALL AS REQUIRED TO SUPPORT THE PARKING LOT ONCE THE EARTH EXCAVATION FOR THE BYPASS ROAD IS COMPLETE. THE WALL SHALL HAVE GUIDERAIL FOR VEHICLE PROTECTION.



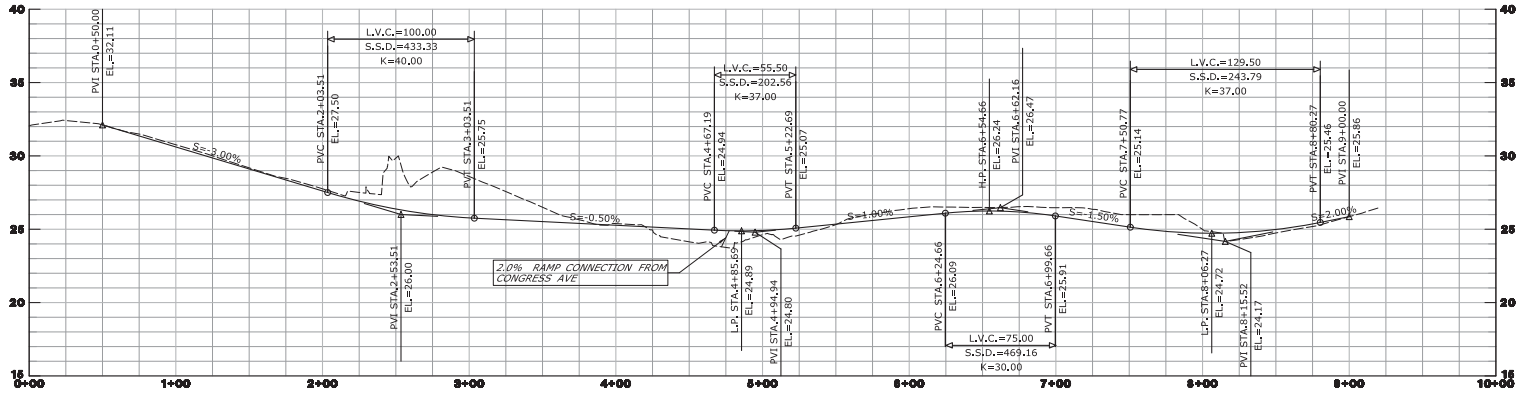
TYPICAL SECTION
STA 0+40 TO 8+00

CURVE #1
DELTA = 19° 57' 29.9"
D = 24° 54' 40.4"
T = 40.47'
L = 80.12'
R = 230.00'
PI N 171241.481
PI E 550165.051

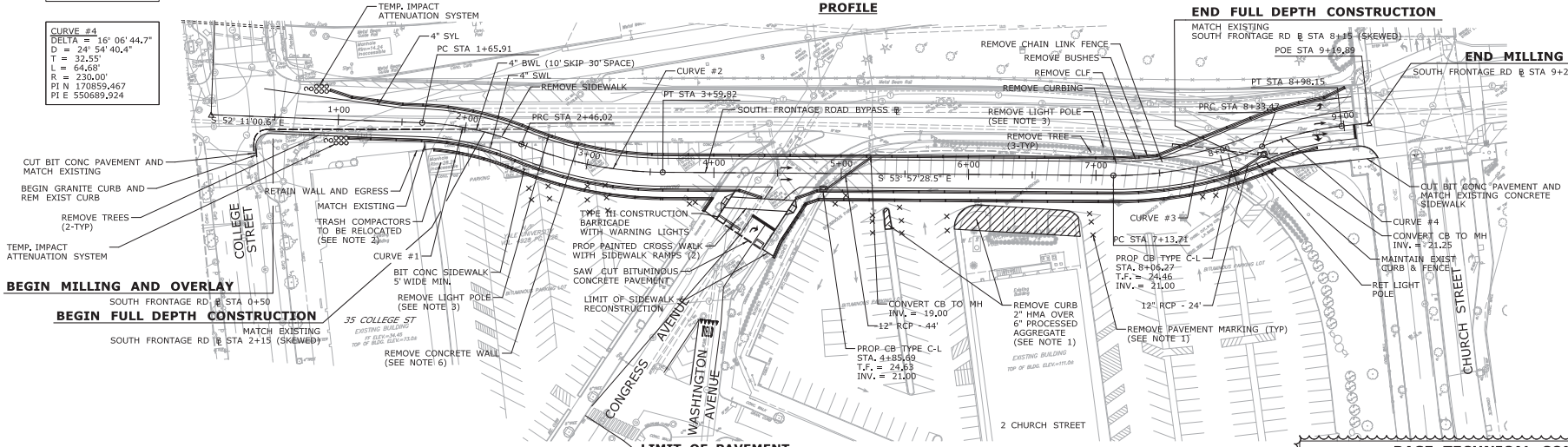
CURVE #2
DELTA = 21° 43' 57.9"
D = 19° 05' 54.9"
T = 57.59'
L = 113.79'
R = 300.00'
PI N 171158.529
PI E 550217.339

CURVE #3
DELTA = 22° 52' 21.8"
D = 19° 05' 54.9"
T = 60.69'
L = 119.76'
R = 300.00'
PI N 170880.711
PI E 550599.132

CURVE #4
DELTA = 16° 06' 44.7"
D = 24° 54' 40.4"
T = 32.55'
L = 64.68'
R = 230.00'
PI N 170859.467
PI E 550689.924



PROFILE



PLAN

CONNECTICUT COORDINATE GRID

BASE TECHNICAL CONCEPT ADDENDUM NO. 6 - 01/06/20

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
1	01/06/20	GENERAL UPDATES TO BYPASS	21.01.A6

Filename: 03_092xxx_MPT-01-ADD6.dgn Plotted Date: 1/6/2020

DESIGNER/DRAFTER: ZH/LS
CHECKED BY: RIF
SCALE IN FEET 0 40 80
SCALE 1"=40'

The City of **NEW HAVEN CONNECTICUT**

ENGINEER: **HNTB Corp.**
APPROVED BY:

PROJECT TITLE: **DOWNTOWN CROSSING PHASE 3 TEMPLE STREET**

DRAWING TITLE: **MPT - BYPASS**

PROJECT NO. 19-095-02
DRAWING NO. MPT-01
SHEET NO. 21.01.A6

1/6/2020 12:05:13 PM
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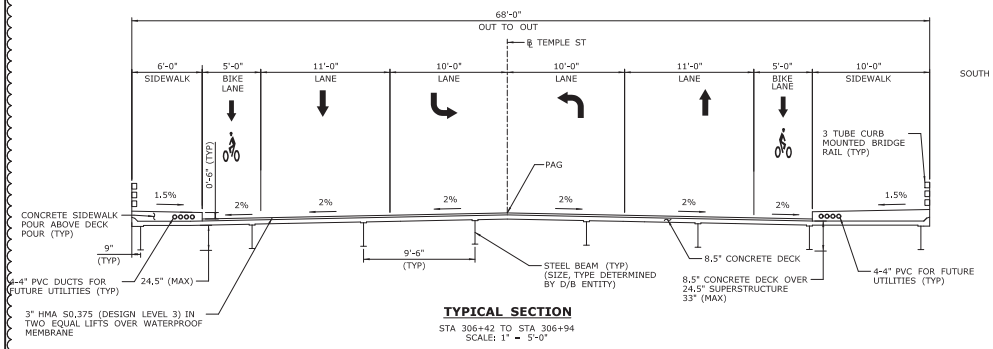
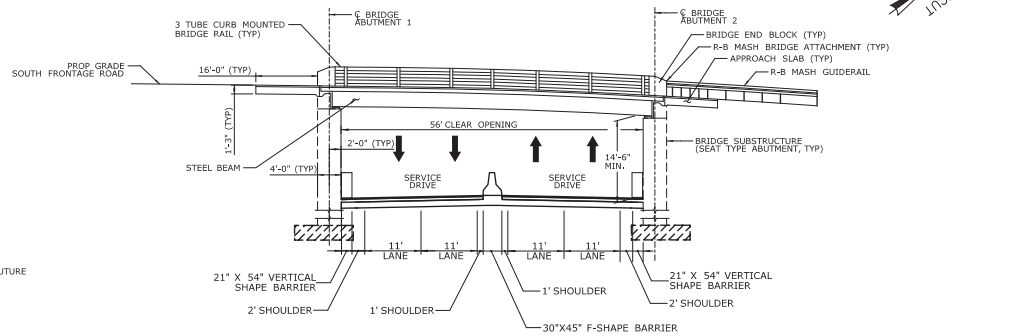


TYPICAL SECTION

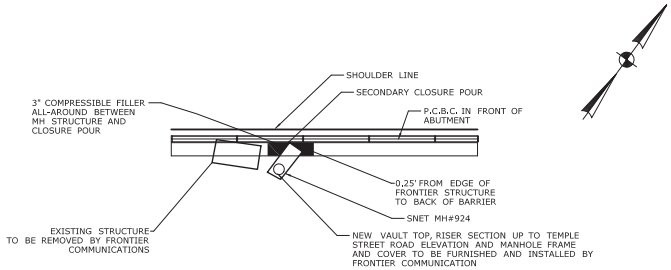
STA 306+42 TO STA 306+94
SCALE: 1" = 5'-0"

NOTE:
APPROACH SLAB PAVEMENT SECTION: 3" HMA S0.375 (DESIGN LEVEL 3) OVER WATERPROOFING MEMBRANE OVER 15" CLASS "F" CONCRETE



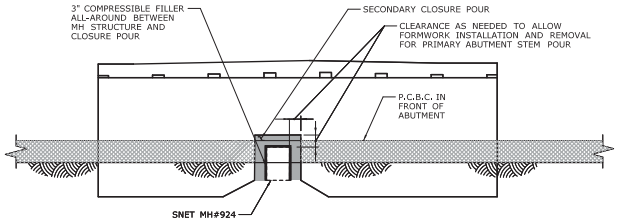
SCHEMATIC ELEVATION - SINGLE SPAN OPTION

NTS



SOUTH ABUTMENT SCHEMATIC PLAN

SCALE: 1"=10'-0"



SOUTH ABUTMENT SCHEMATIC ELEVATION

SCALE: 1"=10'-0"

BASE TECHNICAL CONCEPT
ADDENDUM NO. 6 - 01/06/20

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
1	01/06/20	ADD MIN. BRIDGE LENGTH OPTIONS & ABUTMENT SCHEMATICS	24.01.A6

Filename: 03_092xxx_STR-01-ADD6.dgn Plotted Date: 1/9/2020

DESIGNER/DRAFTER: ZH
CHECKED BY: HC
SCALE IN FEET 0 10 20
SCALE 1"=10'

The City of NEW HAVEN CONNECTICUT

ENGINEER: HNTB Corp.
APPROVED BY:

PROJECT TITLE
DOWNTOWN CROSSING
PHASE 3
TEMPLE STREET

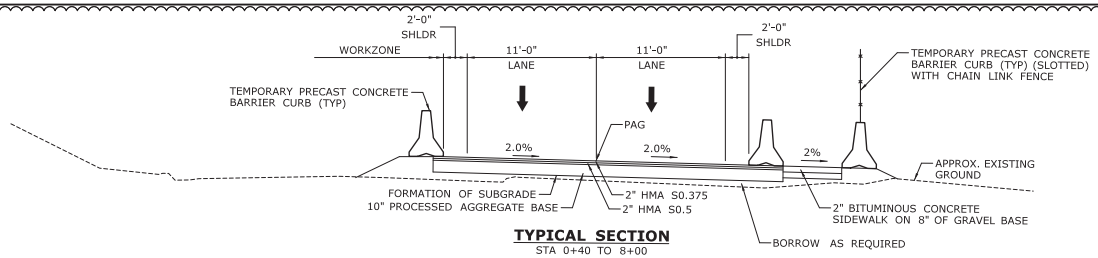
DRAWING TITLE:
TEMPLE STREET BRIDGE, SCHEMATICS, ELEVATIONS & TYPICAL SECTION

PROJECT NO. 19-095-02
DRAWING NO. STR-01
SHEET NO. 24.01.A6

1/9/2020 9:59:18 AM
03_092xxx_STR-01-ADD6.dgn

NOTES:

1. ALL AREAS DISTURBED BY THE CONSTRUCTION OF THE TEMPORARY BYPASS SHALL BE RESTORED TO THEIR PRIOR CONDITION ONCE SOUTH FRONTAGE ROAD IS FULLY OPEN TO TRAFFIC.
2. THE D-B TEAMS MAY CONSIDER MODIFYING THE FINAL GRADING OF THE 2 CHURCH STREET SOUTH PARKING LOT IN ORDER TO REDUCE THE HEIGHT OF THE PROPOSED WALL 316 AS SHOWN ON HWY-01.
3. TRASH COMPACTORS TO BE SHIFTED SOUTH. THIS WORK SHALL BE COORDINATED WITH THE OWNER.
4. ALL IMPACTED LIGHT STRUCTURES SHALL BE REMOVED FOR THE DURATION THE BYPASS IS IN PLACE AND REPLACED WHEN THE BYPASS IS NO LONGER REQUIRED. CONTRACTOR TO PROVIDE TEMPORARY ILLUMINATION.
5. THE CONTRACTOR SHALL DEVELOP A PROPOSED SIGNING PLAN ASSOCIATED WITH THE TEMPORARY BYPASS ROAD FOR REVIEW AND APPROVAL BY THE CITY AS PART OF THE OVERALL MPT SUBMITTAL PACKAGE. THIS SUBMITTAL SHALL ALSO MAKE CLEAR ANY MODIFICATIONS INCLUDING REMOVAL/TEMPORARY COVERING OF EXISTING SIGNAGE IN ADVANCE OF THE TEMPORARY BYPASS ROAD.
6. PROVIDE A TEMPORARY RETAINING WALL AS REQUIRED TO SUPPORT THE PARKING LOT ONCE THE EARTH EXCAVATION FOR THE BYPASS ROAD IS COMPLETE. THE WALL SHALL HAVE GUIDERAIL FOR VEHICLE PROTECTION.



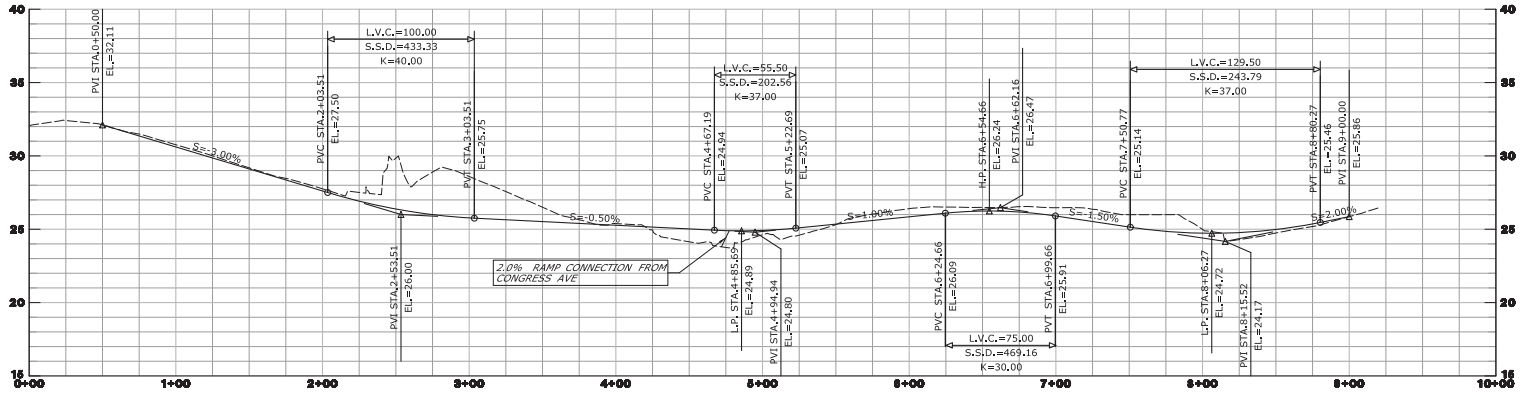
TYPICAL SECTION
STA 0+40 TO 8+00

CURVE #1
DELTA = 19° 57' 29.9"
D = 24° 54' 40.4"
T = 40.47'
L = 80.12'
R = 230.00'
PI N 171241.481
PI E 550165.051

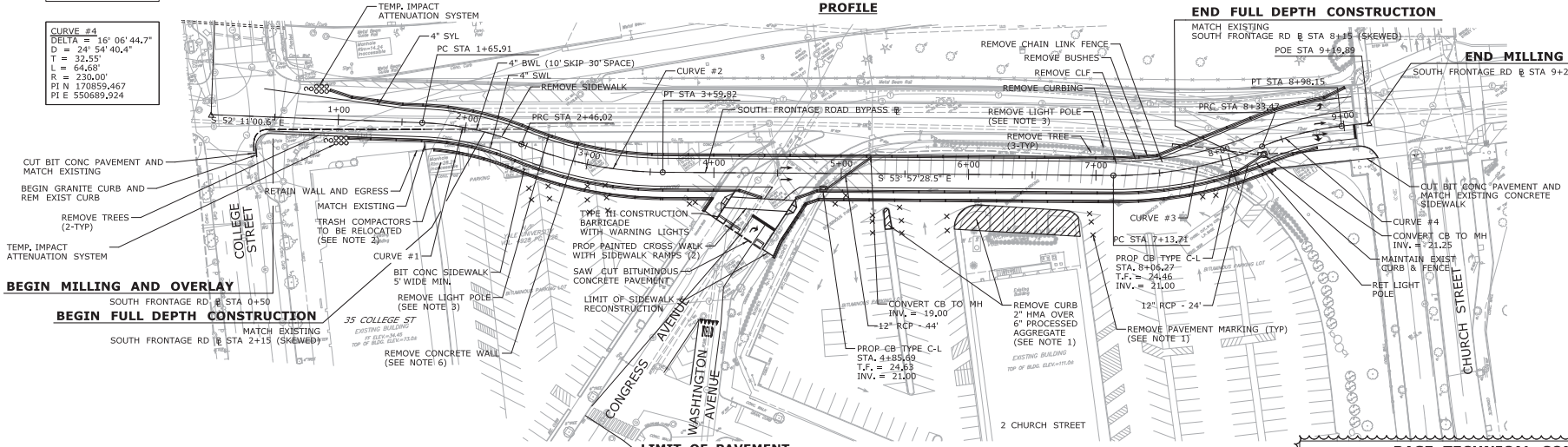
CURVE #2
DELTA = 21° 43' 57.9"
D = 19° 05' 54.9"
T = 57.59'
L = 113.79'
R = 300.00'
PI N 171158.529
PI E 550217.339

CURVE #3
DELTA = 22° 52' 21.8"
D = 19° 05' 54.9"
T = 60.69'
L = 119.76'
R = 300.00'
PI N 170880.711
PI E 550599.132

CURVE #4
DELTA = 16° 06' 44.7"
D = 24° 54' 40.4"
T = 32.55'
L = 64.68'
R = 230.00'
PI N 170859.467
PI E 550689.924



PROFILE



PLAN

CONNECTICUT COORDINATE GRID

BASE TECHNICAL CONCEPT ADDENDUM NO. 6 - 01/06/20

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
1	01/06/20	GENERAL UPDATES TO BYPASS	21.01.A6

Filename: 03_092xxx_MPT-01-ADD6.dgn Plotted Date: 1/6/2020

DESIGNER/DRAFTER: ZH/LS
CHECKED BY: RIF
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SCALE 1"=40'

The City of **NEW HAVEN CONNECTICUT**

ENGINEER: **HNTB Corp.**
APPROVED BY:

PROJECT TITLE: **DOWNTOWN CROSSING PHASE 3 TEMPLE STREET**

DRAWING TITLE: **MPT - BYPASS**

PROJECT NO. 19-095-02
DRAWING NO. MPT-01
SHEET NO. 21.01.A6

1/6/2020 12:05:13 PM
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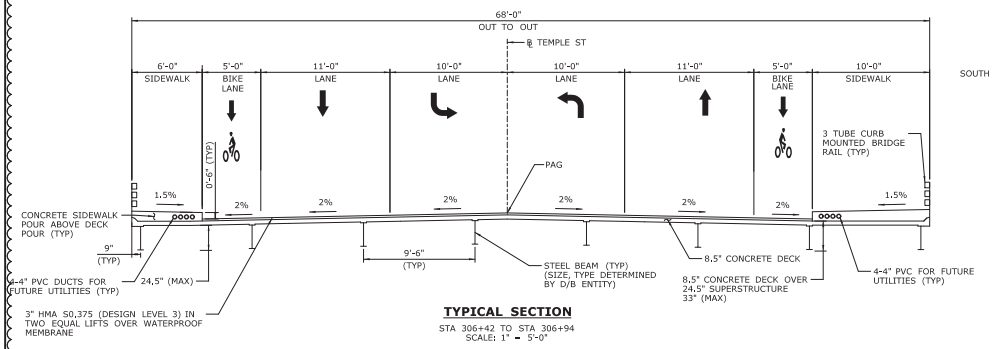

TYPICAL SECTION

STA 306+42 TO STA 306+94
SCALE: 1" = 5'-0"

NOTE:
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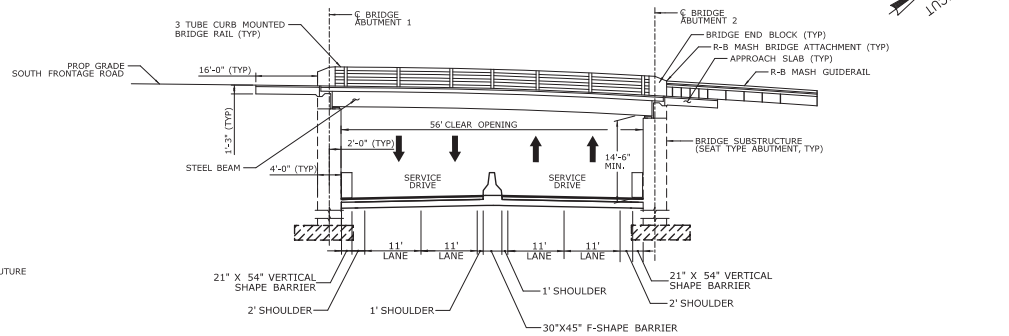
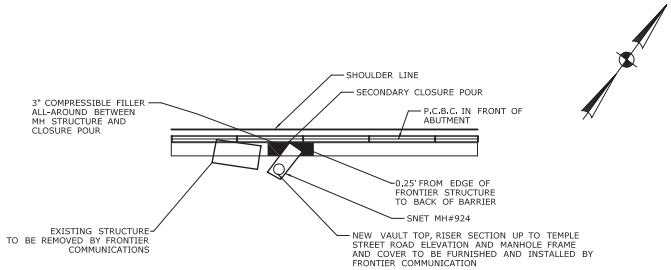


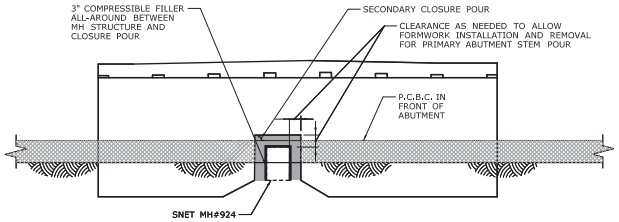
SCHEMATIC ELEVATION - SINGLE SPAN OPTION

NTS



SOUTH ABUTMENT SCHEMATIC PLAN

SCALE: 1"=10'-0"



SOUTH ABUTMENT SCHEMATIC ELEVATION

SCALE: 1"=10'-0"

BASE TECHNICAL CONCEPT
ADDENDUM NO. 6 - 01/06/20

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
1	01/06/20	ADD MIN. BRIDGE LENGTH OPTIONS & ABUTMENT SCHEMATICS	24.01.A6

Filename: 03_092xxx_STR-01-ADD6.dgn Plotted Date: 1/9/2020

DESIGNER/DRAFTER: ZH
CHECKED BY: HC
SCALE IN FEET 0 10 20
SCALE 1"=10'

The City of NEW HAVEN CONNECTICUT

ENGINEER: HNTB Corp.
APPROVED BY:

PROJECT TITLE
DOWNTOWN CROSSING
PHASE 3
TEMPLE STREET

DRAWING TITLE:
TEMPLE STREET BRIDGE, SCHEMATICS, ELEVATIONS & TYPICAL SECTION

PROJECT NO. 19-095-02
DRAWING NO. STR-01
SHEET NO. 24.01.A6

1/9/2020 9:59:18 AM
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Exhibit G – Master Project Schedule (DLDA Copy) – 4.14.2020

Developer's Actions	Submission /Commence Construction	Substantial Completion
Closing Date		6-Aug-2020
Tunnels and Driveways Milestone/Target Dates		
Design of Tunnel Systems		
Concept 10% and Schematic Design 30% submissions		5-Feb-2020
Design Development 60%		21-Mar-2020
Final Design - 90% complete		15-Jul-2020
Contract documents		15-Sep-2020
Construction of Tunnel Systems		
Air Rights Garage Construction Traffic Improvements	1-Aug-2020	5-Oct-2020
Temporary code condition for service drives in the south tunnel location; service drives open to traffic		9-April-2021
Eastern Garage wall complete		24-May-2021
North service drive opens to traffic		15-Oct-2021
Temple Street extension streetscape complete		11-Nov-2022
Substantial completion		11-Nov-2022
Streetscape and Onsite Public Improvements	1-Oct-2021	1-Nov-2022
Developer's Private Improvements Milestone/Target Dates		
Permits	TBD	TBD
City Plan Site Plan Approval and Development Commission Approval	21-Apr-2020	20-May-2020
Office of State Traffic Administration Administrative Decision		1-Jun-2020
Building Permits		15-Jul-2020
Final Acceptance of Tunnels and Drives by City Engineer		1-Aug-2022
Construction		
Site work Preparation	(????)	(????)
Complete SFR Foundation spread footing/wall & return to existing grade		31-Dec-2020
Complete MLK Foundation spread footing/wall & return to existing grade		28-Feb-2021
Construction of Building	3-Aug-2020	1-Mar-2023
Construction of pedestrian connection (optional)	TBD	TBD

City of New Haven's Actions	Submission/ Commence Construction	Substantial Completion
City's Minimum Traffic Improvements complete per Exhibit R		10-Jul-2020
Final Acceptance of Tunnels and Drives by City Engineer		1-Aug-2022
Commissioning Tunnels and Drives	1-Aug-2021	1-Aug-2022
Route 34 DTX Phase 2 Milestone/Target Dates		
Mobilization	15-Jul-2019	7-Aug-2019
Construct MLK to Parcel B slip ramp east of Temple Street extension (Pre-State 1E work through Stage 5)	14-Jul-2020	10-Aug-2020
DTX Phase 2 MPT (Stage 1 work)	1-Aug-2020	1-Oct-2020
Stage 2A work	1-Apr-2021	18-May-2021
Stage 2B work	19-May-2021	9-Jul-2021
Substantial completion	12-Jul-2021	12-Jul-2021
Route 34 DTX Phase 3 (DB) Milestone/Target Dates		
Procurement and design		
Design-Builder concepts due and review starts (Review by selection panel and stakeholders including the Development team)		21-Apr-2020
Estimated Contract Award	3-July-2020	3-July-2020
Design-Build NTP Design	14-Aug-2020	14-Aug-2020
Design Period	14-Aug-2020	28-Apr-2021
Federal Highway Administration NTP for Construction		TBD
Construction Period		
South Frontage Road (SFR) Bypass (early start construction work)	1-Sept-2020	20-Nov-2020
South Drives in their final location and open to traffic*		11-Nov-2022

Reconstruct/Lift MLK to finished grade		**11-Nov-2022**
Reconstruct/Lift MLK/Temple St. intersection*		**11-Nov-2022**
Complete construction & Signalization @ new MLK/Temple intersection*		**11-Nov-2022**

* = Task tied to LDs

Exhibit H

Critical Milestones associated with Liquidated Damages

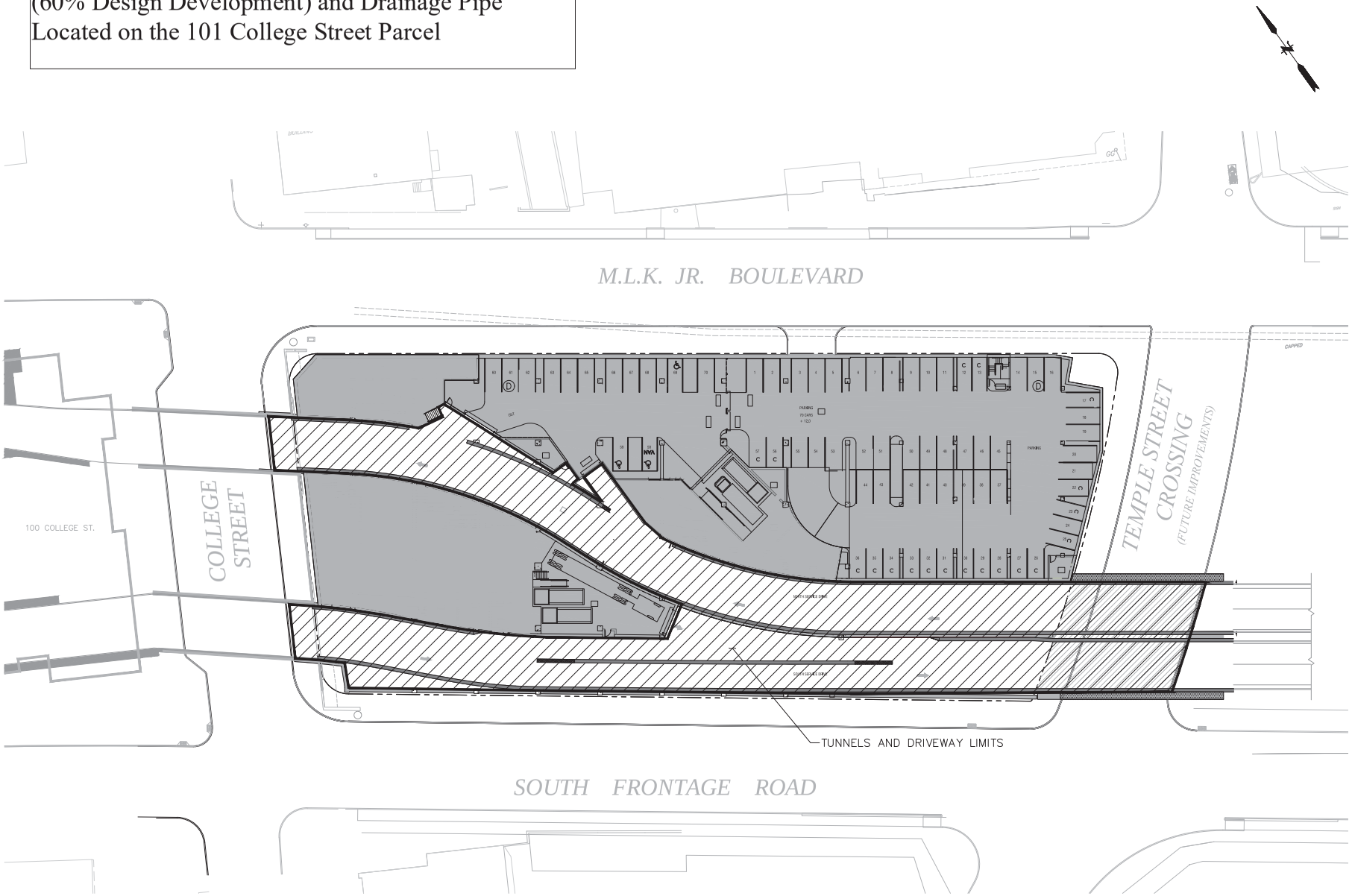
City of New Haven's Critical Milestones

1) No later than November 11, 2022: Complete the raising and reconstruction of South Frontage Road into its final condition as per the Downtown Crossing, Phase 3, Base Bid as described in the Base Technical Concept documents herein under Exhibit F

2) No later than November 11, 2022: Complete construction of a new Temple Street & MLK Blvd intersection as per the Downtown Crossing, Phase 3 Base Bid as described in the Base Technical Concept documents herein under Exhibit F

3) No later than November 11, 2022: Complete installation of signalization, pedestrian controls & structures to accommodate pedestrian crossing at the new Temple/MLK Blvd. intersection

Exhibit J: 101 Tunnels and Driveways Drawings (60% Design Development) and Drainage Pipe Located on the 101 College Street Parcel



LEGEND

TUNNELS AND DRIVEWAY LIMITS

WE 101 College Street, LLC
Client
300 George Street
New Haven, CT 06511
203 624 5317

McNamara Salvia
Structural Engineer
101 Federal Street, Suite 1100
Boston, MA 02110
617 737 0040

AHA Consulting Engineers
MEP Engineer
18 Tremont St, Suite 1040
Boston, MA 02108
781 402 6000

Fuss & O'Neill
Civil Engineer / Landscape
146 Hartford Road
Manchester, CT 06040
860 646 2469

Jensen Hughes
Code Consultant
1061 Worcester Road, Suite 501
Framingham, MA 01701
508-273-8484

PROJECT NUMBER: 19050

DATE: MAR. 25, 2020

60% TUNNEL SET

REVISIONS:

SCALE: 1"=20'

20 10 0 20

GRAPHIC SCALE

DRAWING NAME:

101 Tunnels and Driveways Drawings (Schematics)

DRAWING NUMBER:

Exhibit J

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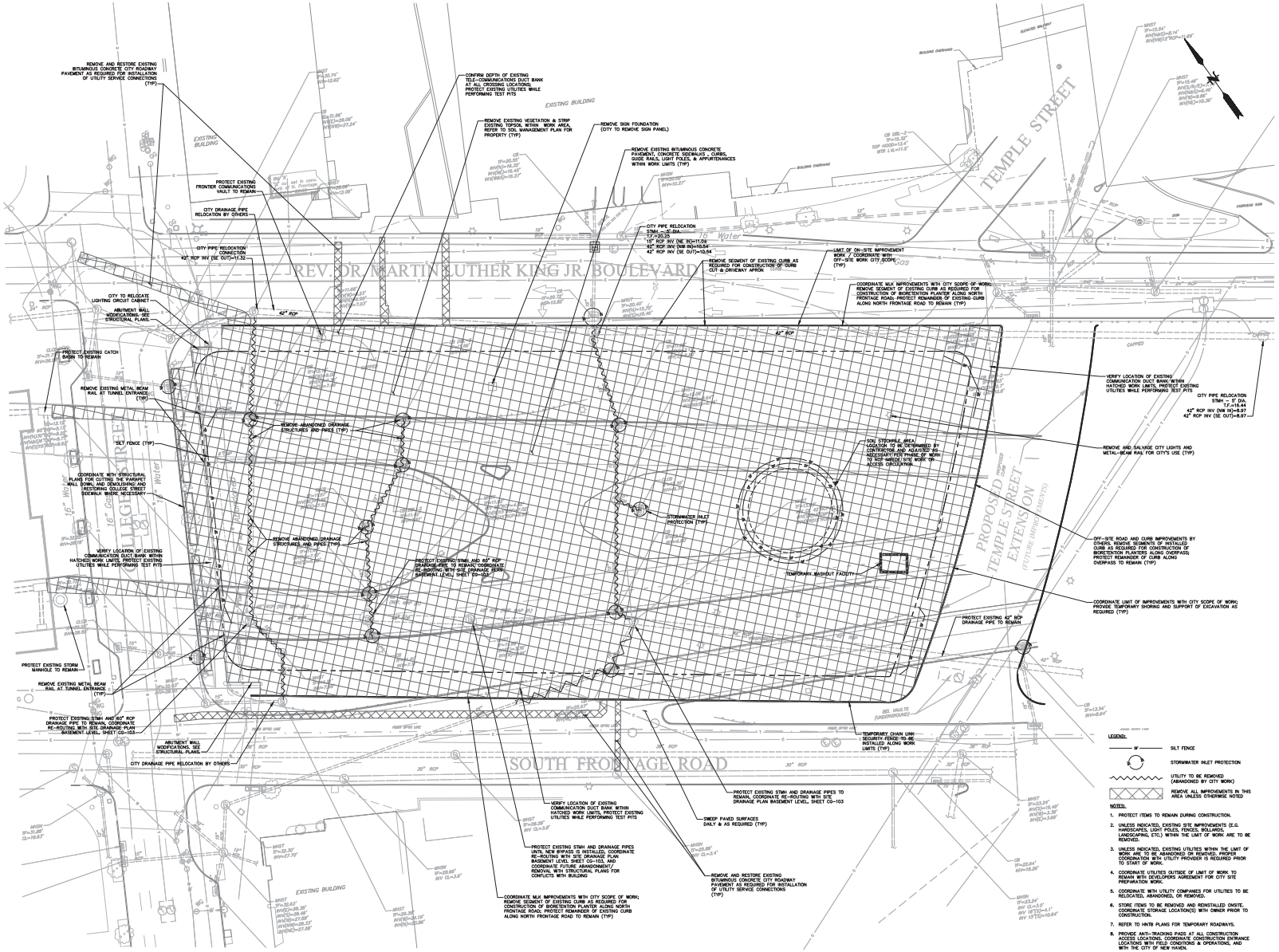
Exhibit J: 101 Tunnels and Driveways Drawings (60% Design Development) and Drainage Pipe Located on the 101 College Street Parcel



ELKUS | MANFREDI ARCHITECTS
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Boston Massachusetts 02210
Tel: 617.426.7348

101 College Street

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MEP Engineer
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1801 Worcester Road, Suite 501
Framingham, MA 01701
508-373-9494

PROJECT NUMBER: 19050

DATE: MAR. 25, 2020

60% TUNNEL SET

REVISIONS:

SCALE: 1"=20'

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GRAPHIC SCALE

DRAWING NAME:

Site Preparation and Erosion & Sediment Control Plan

DRAWING NUMBER:

CP-101

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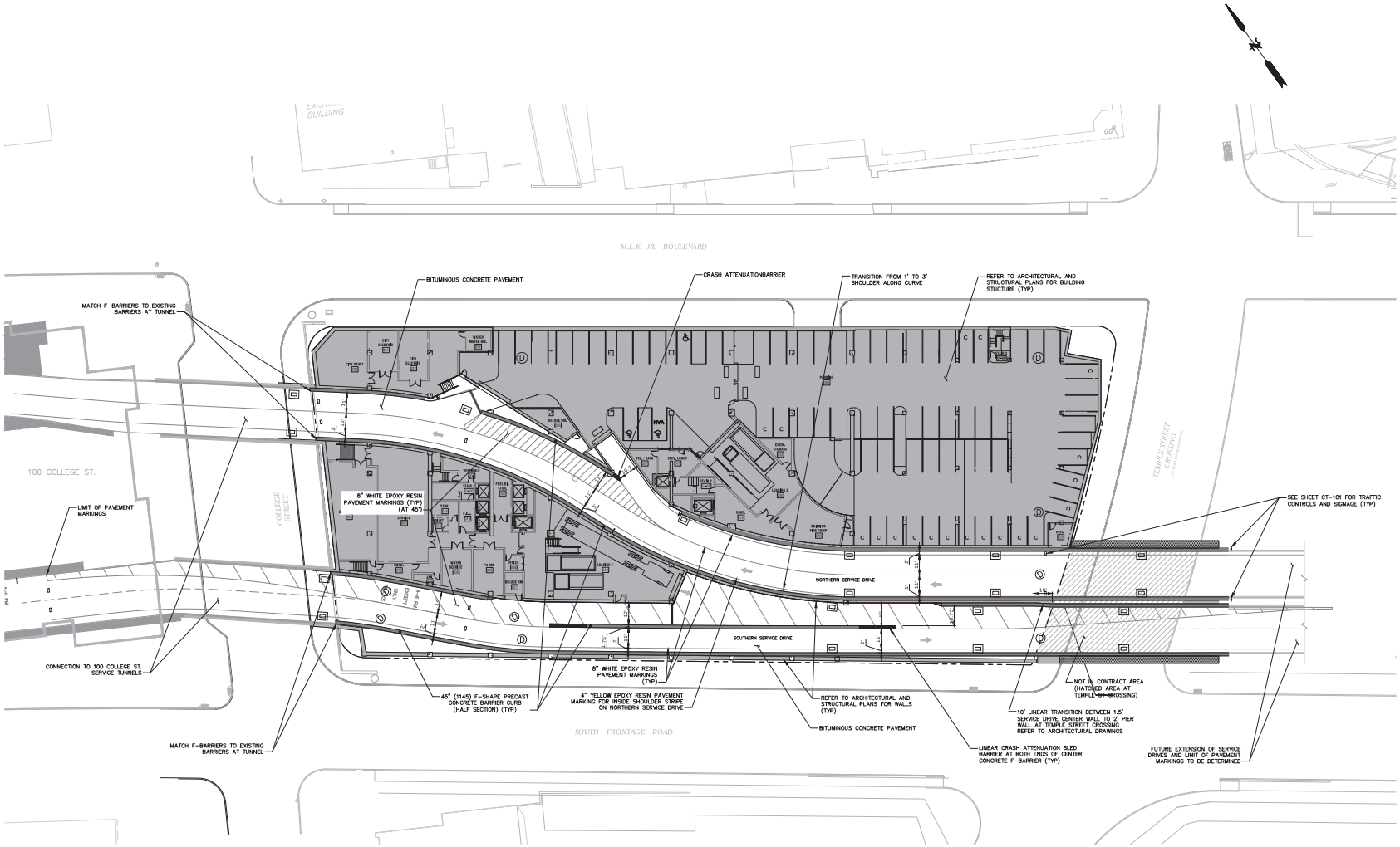
Exhibit J: 101 Tunnels and Driveways Drawings (60% Design Development) and Drainage Pipe Located on the 101 College Street Parcel



ELKUS | MANFREDI ARCHITECTS
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Tel: 617.426.7188

101 College Street

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1861 Worcester Road, Suite 501
Framingham, MA 01701
508-373-9484

PROJECT NUMBER 19050

DATE: MAR. 25, 2020

60% TUNNEL SET

REVISIONS:

SCALE: 1"=20'

20 10 0 20
GRAPHIC SCALE

DRAWING NAME:

Site Layout Plan
Basement Level

DRAWING NUMBER:

CS-102

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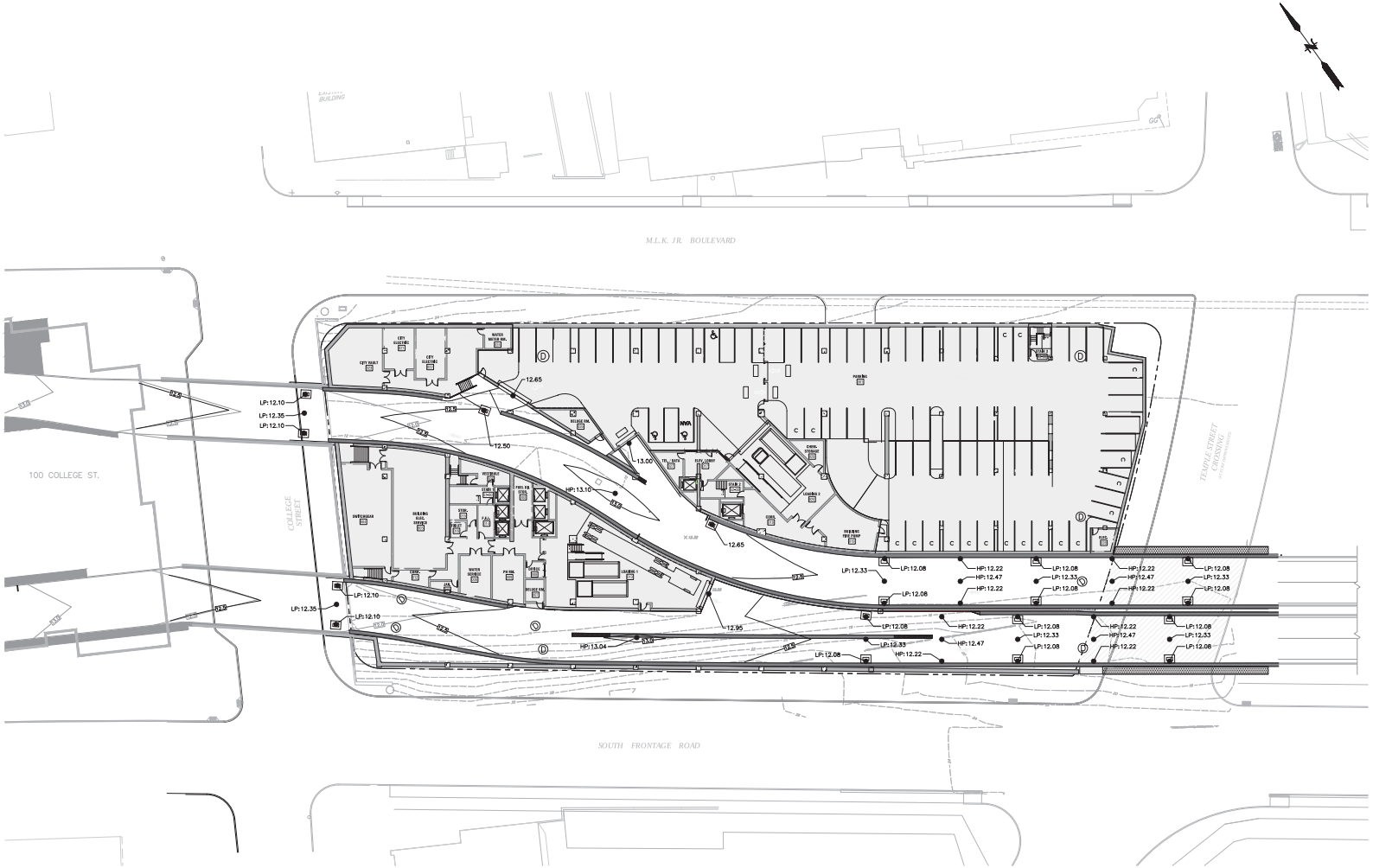
Exhibit J: 101 Tunnels and Driveways Drawings (60% Design Development) and Drainage Pipe Located on the 101 College Street Parcel



ELKUS | MANFREDI ARCHITECTS

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Tel: 617.426.7100

101 College Street

WE 101 College Street, LLC
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300 George Street
New Haven, CT 06511
203 624 5317

McNAMARA SALVIA
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Boston, MA 02110
617 737 0040

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JENSEN HUGHES
Code Consultant
1801 Worcester Road, Suite 501
Framingham, MA 01701
508-373-9484

PROJECT NUMBER 19050

DATE: MAR. 25, 2020

60% TUNNEL SET

REVISIONS:

SCALE: 1"=20'

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GRAPHIC SCALE

DRAWING NAME:

Site Grading Plan
Basement Level

DRAWING NUMBER:

CG-102

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Plotter: NONE CTB File: FO 2008 MONO.CTB

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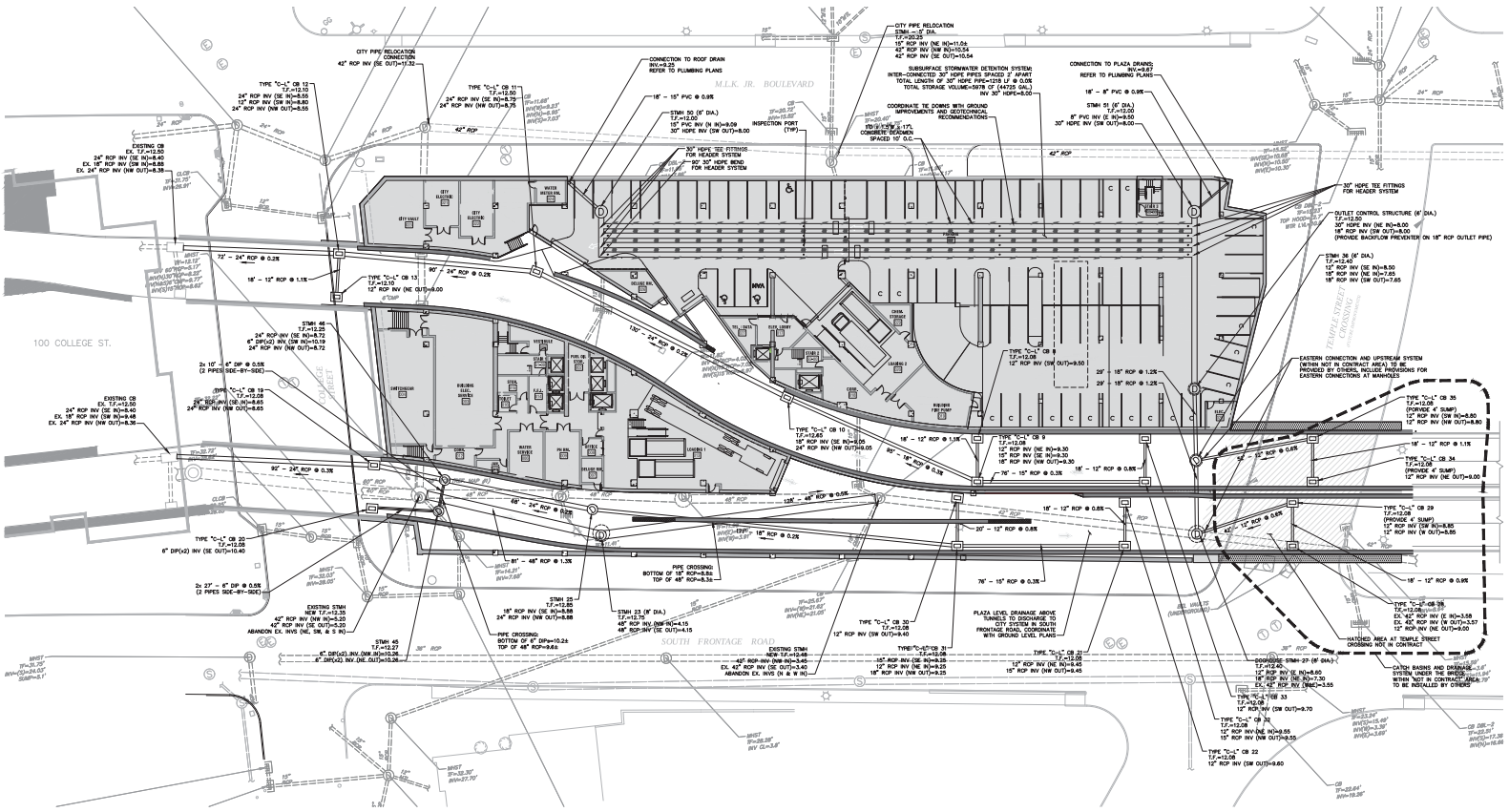

STRUCTURE FOOTING COORDINATION NOTES:

1. STRUCTURAL FOOTINGS WILL BE ADJUSTED IN AREAS OF DELUGE COLLECTION SYSTEM CATCH BASINS/ PIPES, AND IN AREAS IN CLOSE PROXIMITY TO THE CITY STORM PIPE.
2. ALL CATCH BASINS SHALL HAVE NO SUMP, UNLESS OTHERWISE NOTED ON THE PLAN.

ELKUS | MANFREDI ARCHITECTS
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Boston, Massachusetts 02210
Tel: 617.426.7100

101 College Street

WE 101 College Street, LLC
Client
300 George Street
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203 624 5317

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Structural Engineers
Boston · Albany · New York
Structural Engineer
101 Federal Street, Suite 1100
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860 646 2469

JENSEN HUGHES
Code Consultant
1861 Worcester Road, Suite 501
Framingham, MA 01701
508-373-9484

PROJECT NUMBER: 1905.0

DATE: MAR. 25, 2020

60% TUNNEL SET

REVISIONS:

SCALE: 1"=20'

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GRAPHIC SCALE

DRAWING NAME:

Site Drainage Plan
Basement Level

DRAWING NUMBER:

CG-103

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© 2015 ELKUS | MANFREDI ARCHITECTS

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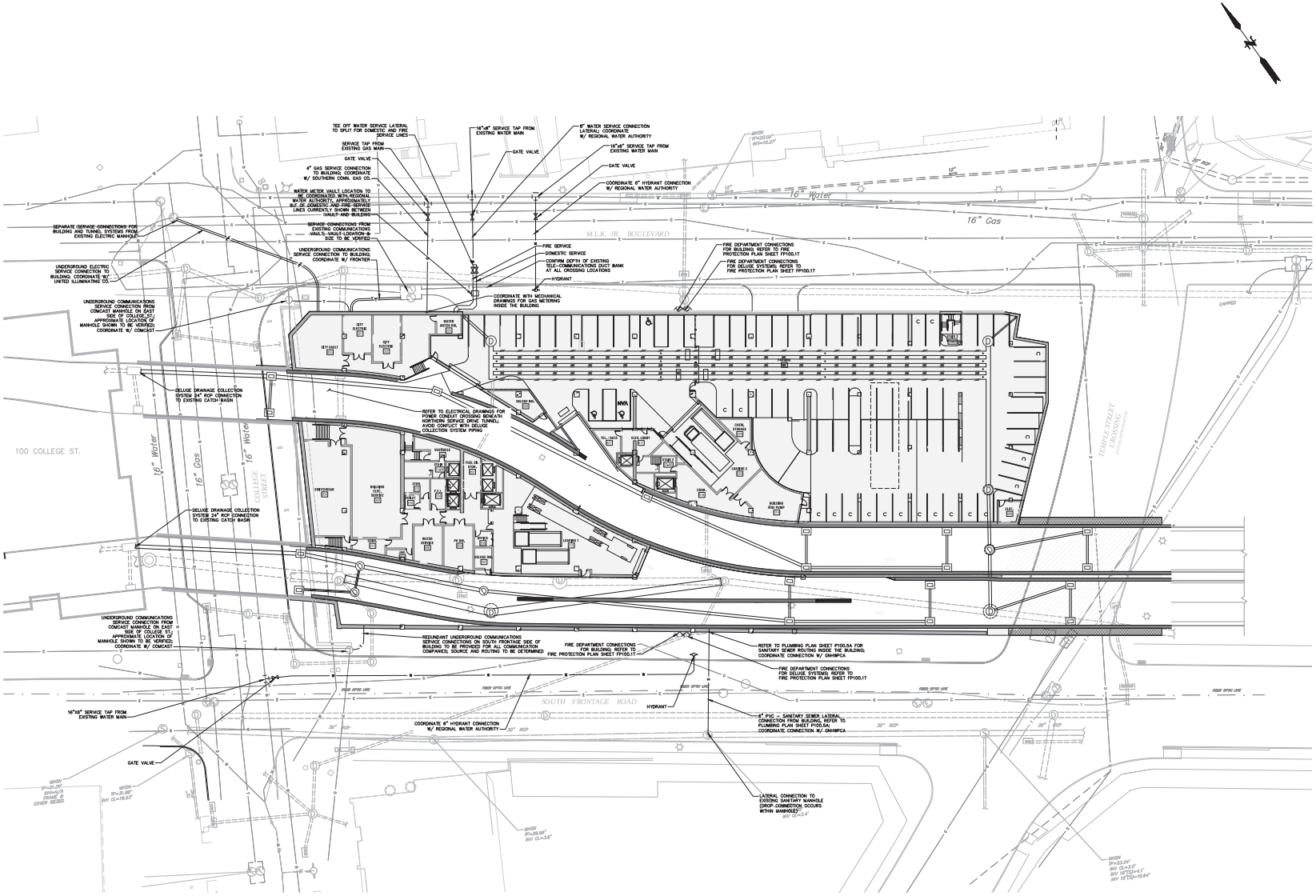
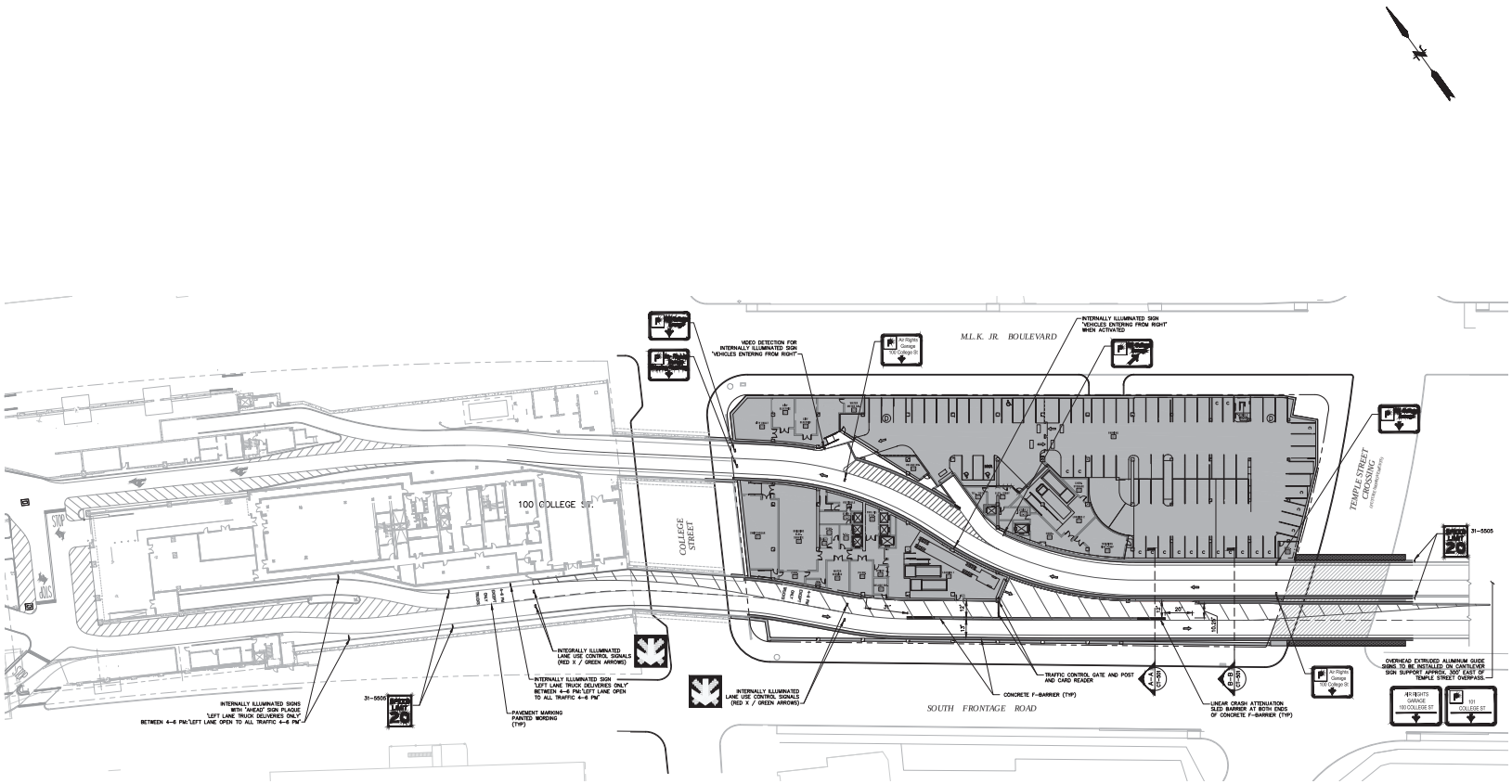

TEE OFF WATER SERVICE LATERAL TO SPLIT FOR DOMESTIC AND FIRE SERVICE LINES
SERVICE TAP FROM EXISTING GAS MAIN
GATE VALVE
4" GAS SERVICE CONNECTION TO BUILDING; COORDINATE W/ SOUTHERN CONN. GAS CO.
WATER METER VAULT LOCATION TO BE COORDINATED WITH REGIONAL WATER AUTHORITY; APPROXIMATELY 8LF OF DOMESTIC & FIRE SERVICE LINES CURRENTLY SHOWN BETWEEN VAULT AND BUILDING
SERVICE CONNECTIONS FROM EXISTING COMMUNICATIONS VAULTS; VAULT LOCATION & SIZE TO BE VERIFIED
UNDERGROUND COMMUNICATIONS SERVICE CONNECTION TO BUILDING; COORDINATE W/ FRONTIER
SEPARATE SERVICE CONNECTIONS FOR BUILDING AND TUNNEL SYSTEMS FROM EXISTING ELECTRIC MANHOLE
UNDERGROUND ELECTRIC SERVICE CONNECTION TO BUILDING; COORDINATE W/ UNITED ILLUMINATING CO.
UNDERGROUND COMMUNICATIONS SERVICE CONNECTION FROM COMCAST MANHOLE ON EAST SIDE OF COLLEGE ST; APPROXIMATE LOCATION OF MANHOLE SHOWN TO BE VERIFIED; COORDINATE W/ COMCAST
DELUGE DRAINAGE COLLECTION SYSTEM 24" RCP CONNECTION TO EXISTING CATCH BASIN
DELUGE DRAINAGE COLLECTION SYSTEM 24" RCP CONNECTION TO EXISTING CATCH BASIN
16"x8" SERVICE TAP FROM EXISTING WATER MAIN
GATE VALVE
16"x8" SERVICE TAP FROM EXISTING WATER MAIN
GATE VALVE
8" WATER SERVICE CONNECTION LATERAL; COORDINATE W/ REGIONAL WATER AUTHORITY
16"x8" SERVICE TAP FROM EXISTING WATER MAIN
COORDINATE 6" HYDRANT CONNECTION W/ REGIONAL WATER AUTHORITY
FIRE SERVICE
DOMESTIC SERVICE
CONFIRM DEPTH OF EXISTING GAS/COMMUNICATIONS DUCT BANK AT ALL CROSSING LOCATIONS
HYDRANT
COORDINATE WITH MECHANICAL DRAWINGS FOR GAS METERING INSIDE THE BUILDING
FIRE DEPARTMENT CONNECTIONS FOR BUILDING; REFER TO FIRE PROTECTION PLAN SHEET FP100.1T
FIRE DEPARTMENT CONNECTIONS FOR BUILDING; REFER TO FIRE PROTECTION PLAN SHEET FP100.1T
REFER TO ELECTRICAL DRAWINGS FOR POWER CONDUIT CROSSING BENEATH NORTHERN SERVICE DRIVE TUNNEL; AVOID CONFLICT WITH DELUGE COLLECTION SYSTEM PIPING
REDUNDANT UNDERGROUND COMMUNICATIONS SERVICE CONNECTIONS ON SOUTH FRONTAGE; SIZE OF BUILDING TO BE PROVIDED FOR ALL COMMUNICATION COMPANIES; SOURCE AND ROUTING TO BE DETERMINED
FIRE DEPARTMENT CONNECTIONS FOR BUILDING; REFER TO FIRE PROTECTION PLAN SHEET FP100.1T
REFER TO PLUMBING PLAN SHEET P100.5A FOR SANITARY SEWER ROUTING INSIDE THE BUILDING; COORDINATE CONNECTION W/ GNHWPCA
FIRE DEPARTMENT CONNECTIONS FOR DELUGE SYSTEMS; REFER TO FIRE PROTECTION PLAN SHEET FP100.1T
HYDRANT
6" PVC – SANITARY SEWER LATERAL CONNECTION FROM BUILDING; REFER TO PLUMBING PLAN SHEET P100.5A; COORDINATE CONNECTION W/ GNHWPCA
COORDINATE 6" HYDRANT CONNECTION W/ REGIONAL WATER AUTHORITY
LATERAL CONNECTION TO EXISTING SANITARY MANHOLE (DROP-CONNECTION OCCURS WITHIN MANHOLE)
100 COLLEGE ST.
16" Water
16" Gas
16" Water
COLLEGE STREET
M.L.K. JR. BOULEVARD
SOUTH FRONTAGE ROAD
TEMPLE STREET CROSSING
CAPPED
30" RCP
FIBER OPTIC LINE
CITY ELECTRIC
CITY VAULT
WATER METER PIT
FIRE PUMP
FIRE PUMP
FIRE PUMP
FIRE PUMP
WATER METER
WATER METER
PH 800
SALUSI MH
SALUSI MH
SERVICE DRIVE
SERVICE DRIVE
SERVICE DRIVE

Exhibit J: 101 Tunnels and Driveways Drawings (60% Design Development) and Drainage Pipe Located on the 101 College Street Parcel



NOTES:
1. SEE SHEET CD-517 FOR SIGN DETAILS.
2. SEE SHEET CD-518 FOR FASTENERS AND WALL MOUNTS
3. MAINTAIN MINIMUM OF 14'-6" VEHICLE CLEARANCE FROM THE BOTTOM OF OVERHEAD SIGNS WITHIN THE TUNNEL

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508-373-9484

PROJECT NUMBER 19050

DATE: MAR. 26, 2020

60% TUNNEL SET

REVISIONS:

SCALE: 1"=30'
30 15 0 30
GRAPHIC SCALE

DRAWING NAME:

Traffic Control and Signage Plan Basement Level

DRAWING NUMBER:

CT-101

File Path: J:\DWG\P2014\0158\AHD\Civil\Plan\2014\0158AHD_TRF01.dwg Layout: CT-101 Plotted: Thursday, March 26, 2020 - 2:25 PM User: VCHARAVALLOTI
Plotter: NONE CTB File: PO 2008 MONO.CTB
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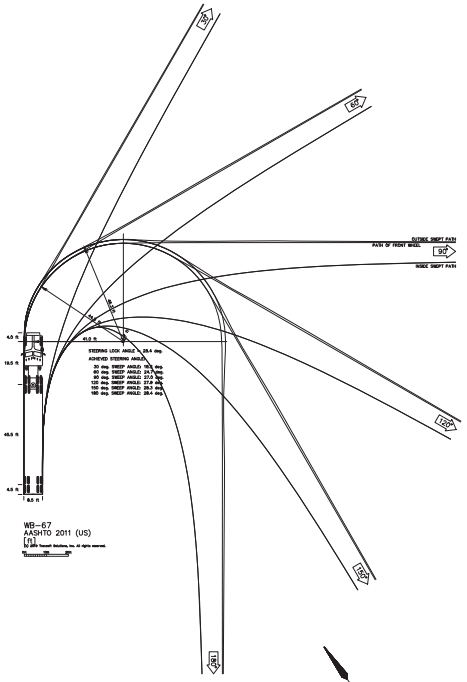
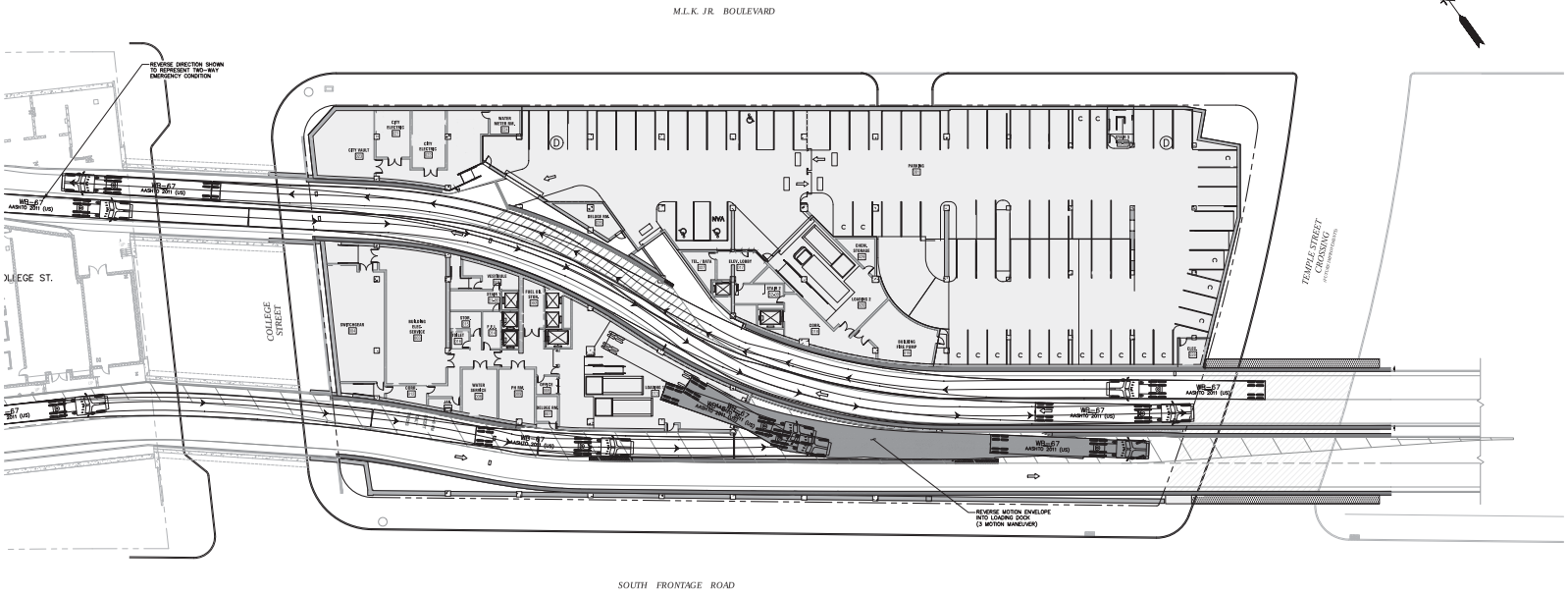
Exhibit J: 101 Tunnels and Driveways Drawings (60% Design Development) and Drainage Pipe Located on the 101 College Street Parcel





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PROJECT NUMBER 1905.0

DATE: MAR. 25, 2020

60% TUNNEL SET

REVISIONS:

SCALE: 1"=20'
20 10 0 20
GRAPHIC SCALE

DRAWING NAME:
WB-67 Truck Turning Plan
Basement Level

DRAWING NUMBER:
CT-201

File Path: J:\DWG\P2014\01585\ARCH\Civil\Plan\2014015854AR_TRP01.dwg\layout2, CT-201 Plotted: Friday, March 27, 2020 - 11:58 AM User: VCHAKRAVALLOTI
Plotter: NONE CTB File: PO 2008 MONO.CTB

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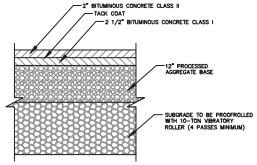
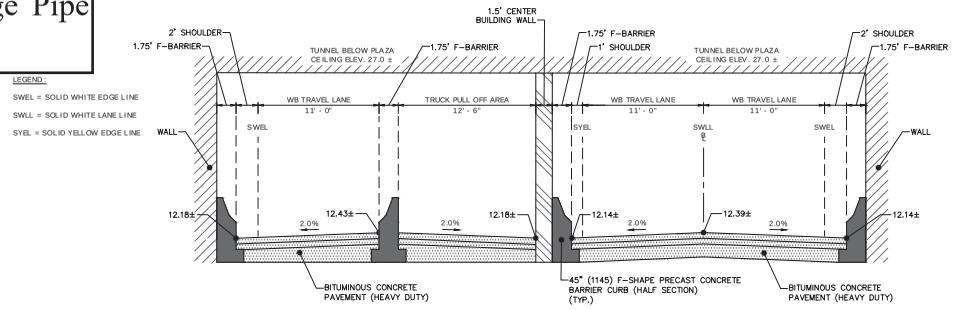
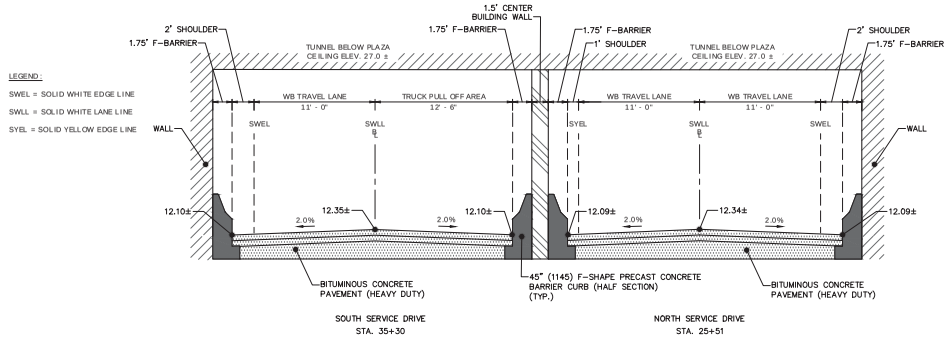
Exhibit J: 101 Tunnels and Driveways Drawings (60% Design Development) and Drainage Pipe Located on the 101 College Street Parcel



BITUMINOUS CONCRETE PAVEMENT (HEAVY DUTY)
NOT TO SCALE



SECTION A-A
SCALE: NOT TO SCALE



SECTION B-B
SCALE: NOT TO SCALE

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PROJECT NUMBER 1905.0

DATE: MAR 25, 2020

60% TUNNEL SET

REVISIONS:

SCALE: N.T.S

DRAWING NAME:
CROSS SECTIONS PLAN

DRAWING NUMBER:

CT-501

File Path: U:\CNO\P2020\1415\BIM\Civil\Revit\2018\1415BIM_TX2018 dwg\Layout: CT-501 Plotted: Thursday, March 26, 2020 - 2:46 PM User: VCHASRAVALLOTI
Plotter: NONE CTB File: FO 2008 MONO.CTB
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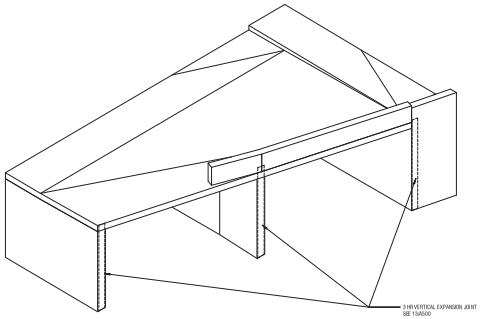
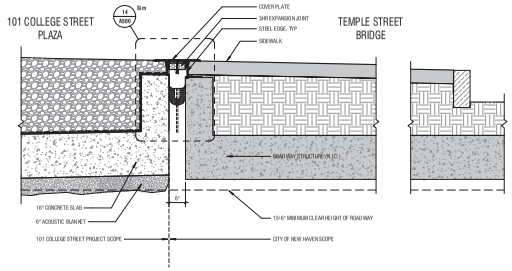
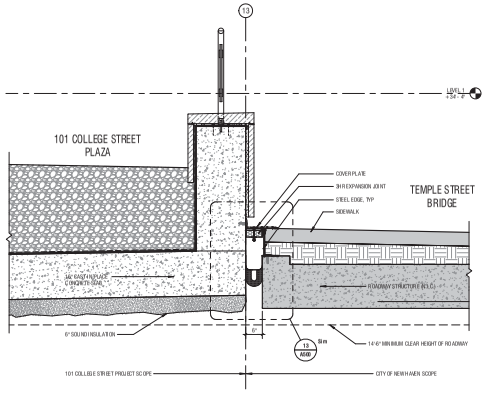
Exhibit J: 101 Tunnels and Driveways Drawings (60% Design Development) and Drainage Pipe Located on the 101 College Street Parcel



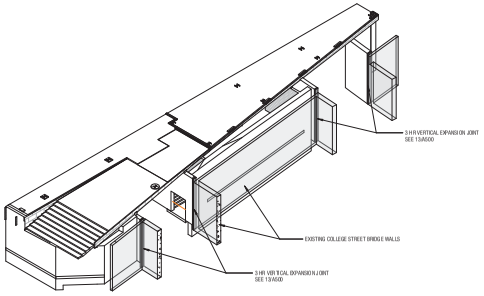
5 TUNNEL EXP. JT DIAGRAM - TEMPLE ST. BRIDGE
SCALE



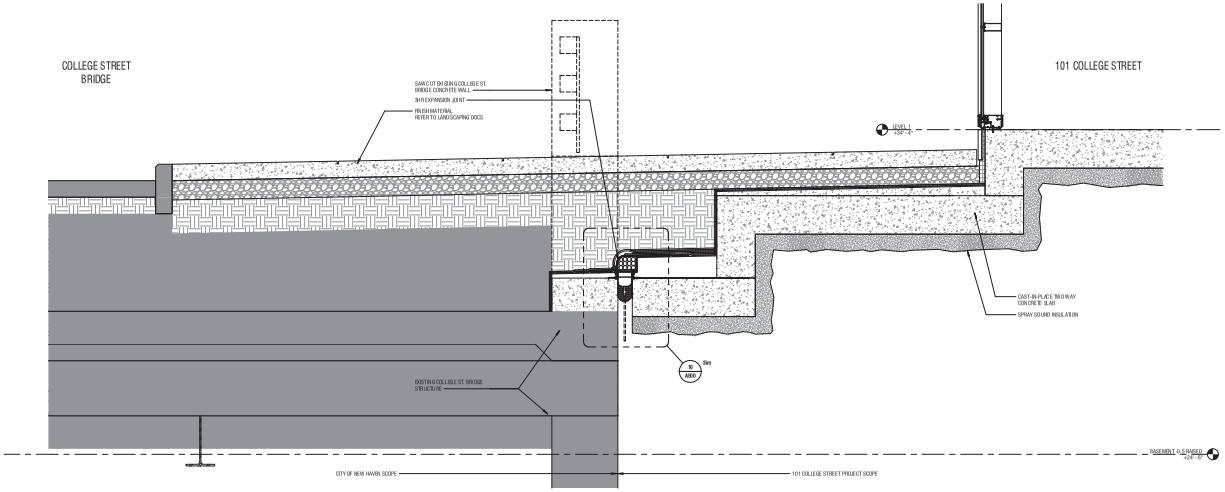
3 TYP. DETAIL @ TEMPLE ST. BRIDGE EXP. JT (EXPOSED) DECK TO DECK
SCALE 3/4" = 1'-0" A101



2 TYP. DETAIL @ TEMPLE ST. BRIDGE EXP. JOINT (EXPOSED) DECK TO WALL
SCALE 3/4" = 1'-0" A100.B



4 TUNNEL EXP. JT DIAGRAM - COLLEGE ST. BRIDGE
SCALE



1 TYP. DETAIL @ COLLEGE ST. BRIDGE EXPANSION JOINT (CONCEALED)
SCALE 3/4" = 1'-0" A100.5

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508 273 9484

PROJECT NUMBER: 19050

DATE: MAR. 25, 2020

60% TUNNEL SET

REVISIONS:

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

DRAWING NAME:
BRIDGE DETAILS

DRAWING NUMBER:
A300

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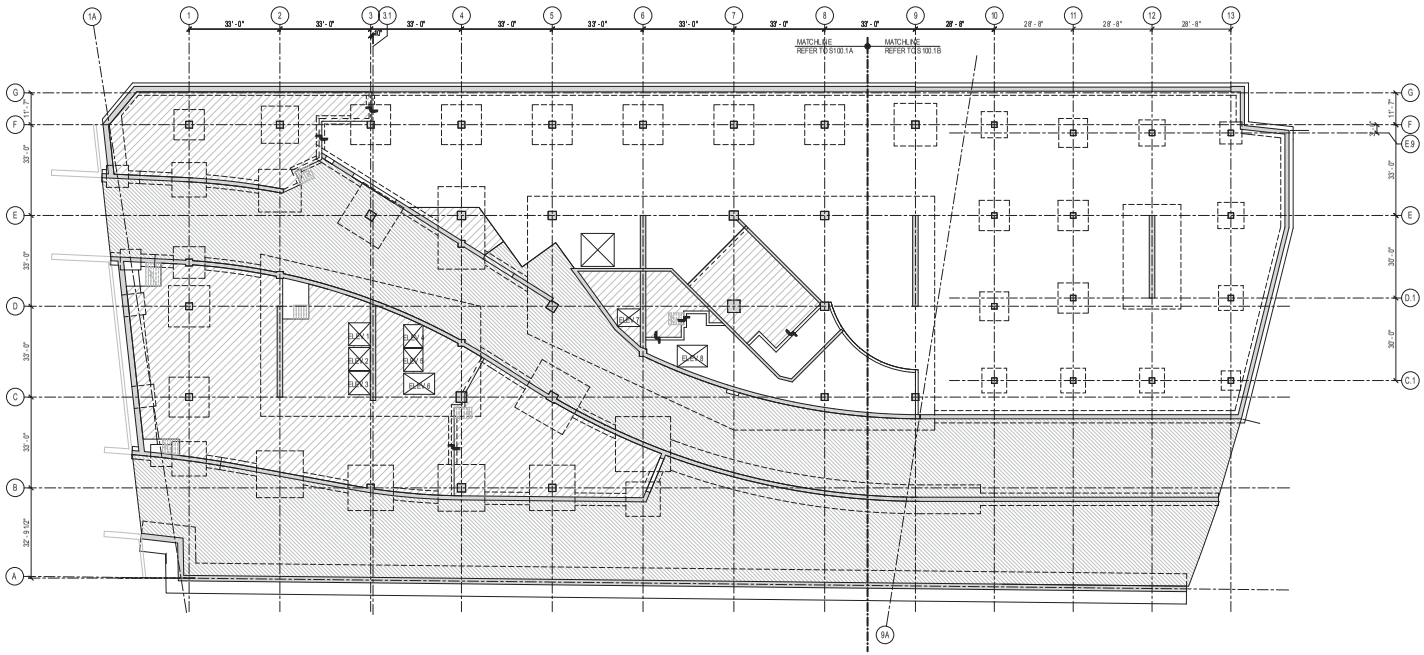
Exhibit J: 101 Tunnels and Driveways Drawings (60% Design Development) and Drainage Pipe Located on the 101 College Street Parcel



OVERALL PLAN - BASEMENT

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

NOTE: SEE S003 FOR PLAN NOTES AND DETAILS

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PROJECT NUMBER: 19-941.000

DATE: MAR 26, 2020

60% TUNNEL SET

REVISIONS:

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

DRAWING NAME:

LEVEL-1 BASEMENT OVERALL PLAN

DRAWING NUMBER:

S100.1

3/24/2020 7:46:10 AM

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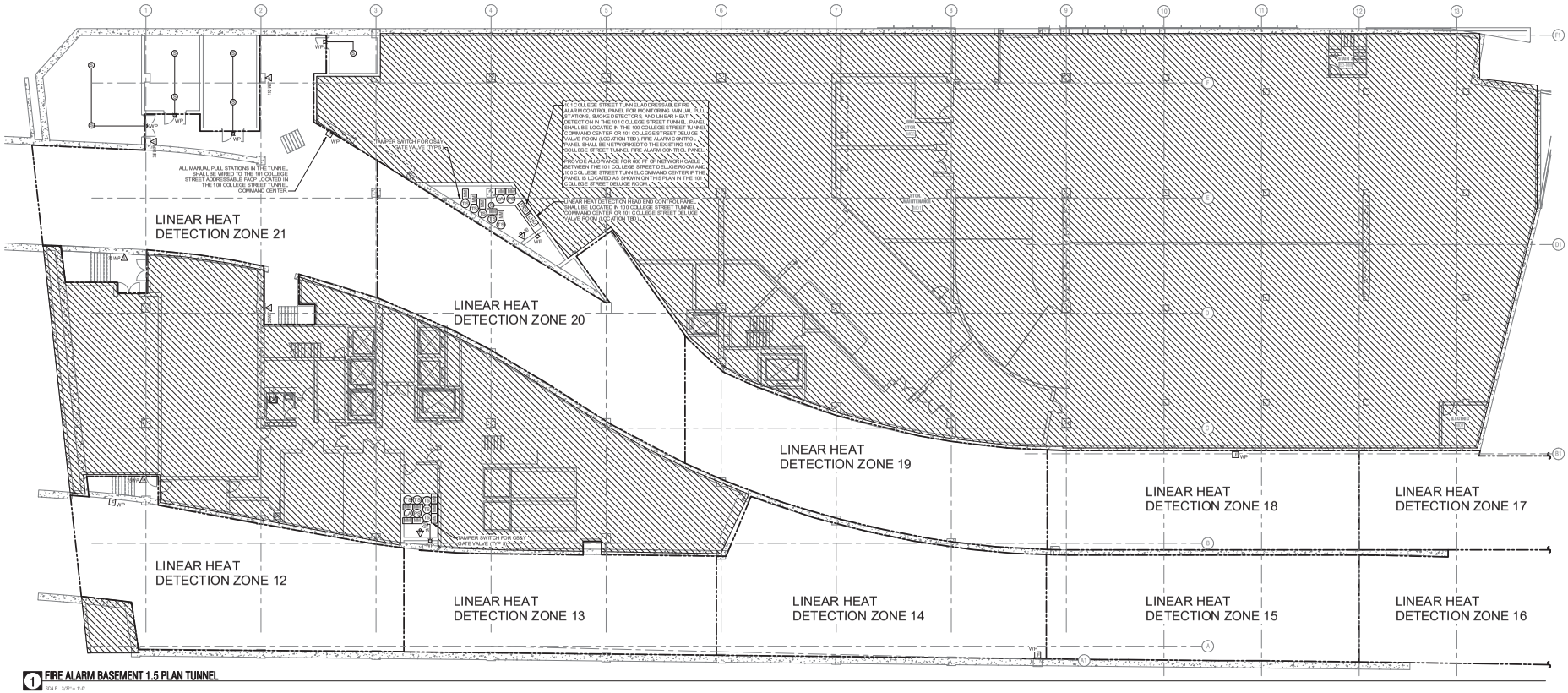
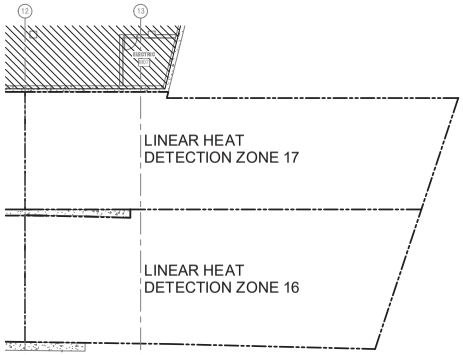
Exhibit J: 101 Tunnels and Driveways Drawings (60% Design Development) and Drainage Pipe Located on the 101 College Street Parcel



1 FIRE ALARM BASEMENT 1.5 PLAN TUNNEL
SCALE 3/32" = 1'-0"



3 FIRE ALARM BASEMENT 1.5 PLAN TUNNEL ZONE 16AND 17
SCALE 3/32" = 1'-0"

SHEET NOTES	KEYED NOTES
1. ALL WORK SHOWN ON THIS DRAWING SHALL BE INCLUDED UNDER THE PUBLIC PORTION OF THE WORK. 2. INSTALL A NEW FIRE ALARM CONTROL PANEL FOR THE 101 COLLEGE STREET TUNNEL. THIS NEW FIRE ALARM PANEL SHALL BE NETWORKED TO THE EXISTING FIRE ALARM CONTROL PANEL LOCATED IN THE 100 COLLEGE STREET TUNNEL COMMAND CENTER. 3. THE CONTROL PANEL FOR THE LINEAR HEAT DETECTION SHALL BE LOCATED IN THE 101 COLLEGE STREET TUNNEL COMMAND CENTER AND SHALL BE INTERFACED WITH THE 101 COLLEGE STREET TUNNEL'S FIRE ALARM CONTROL PANEL. 4. INSTALL LINEAR HEAT DETECTION CABLES OVER THE CENTERLINE OF EACH TRAVEL LANE AND BREAKDOWN LANES (IF PROVIDED) IN THE TUNNEL. MANUFACTURER'S GUIDELINES SHALL BE FOLLOWED FOR MINIMUM BEND RADIUS OF HEAT DETECTION CABLE. 5. THE LINEAR HEAT DETECTION SYSTEMS SHALL BE ZONED IDENTICALLY TO MATCH THE DELUGE SPRINKLER SYSTEM ZONES AS INDICATED ON THIS SHEET. 6. ACTIVATION OF ANY LINEAR HEAT DETECTION ZONE SHALL TRANSMIT AN ALARM SIGNAL TO THE NEW HAVEN FIRE DEPT. 7. INSTALL MANUAL PULL STATIONS IN THE TUNNEL AS INDICATED. PULL STATIONS SHALL BE LOCATED A MAXIMUM 100 FEET APART. PULL STATIONS SHALL BE ACCESSIBLE TO THE PUBLIC AND TUNNEL PERSONNEL. THE LOCATION OF AN ACTIVATED PULL STATION SHALL BE DISPLAYED ON THE FACP LOCATED IN THE TUNNEL COMMAND CENTER IN 100 COLLEGE STREET, ON THE FACP LOCATED IN THE TUNNEL COMMAND CENTER IN 101 COLLEGE STREET, AND AN ALARM SIGNAL SHALL BE SENT TO THE NEW HAVEN FIRE DEPT. 8. AT THE COMPLETION OF CONSTRUCTION, PERFORM AN RF STUDY WITHIN THE TUNNEL AREAS TO DETERMINE IF MUNICIPAL FIRST RESPONDER RADIO FREQUENCIES ARE AVAILABLE THROUGHOUT THE TUNNEL. IF THE REQUIRED RADIO FREQUENCIES ARE NOT AVAILABLE, INSTALL A RADIO REPEATER SYSTEM TO OBTAIN THE REQUIRED FREQUENCIES.	XXX

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PROJECT NUMBER: 19050

DATE: MAR. 25, 2020

60% TUNNEL SET

REVISIONS:

SCALE: As indicated

DRAWING NAME:

FIRE ALARM TUNNEL PLAN

DRAWING NUMBER:

FA100.1T

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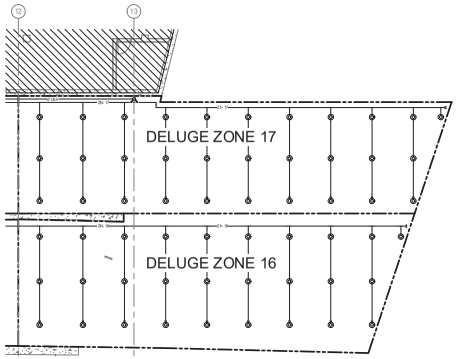
Exhibit J: 101 Tunnels and Driveways Drawings (60% Design Development) and Drainage Pipe Located on the 101 College Street Parcel

1 FIRE PROTECTION BASEMENT 1.5 PLAN TUNNEL
SCALE 3/32" = 1'-0"



2 FIRE PROTECTION BASEMENT 1.5 PLAN TUNNEL ZONES 16 AND 17
SCALE 3/32" = 1'-0"

SHEET NOTES	KEYED NOTES
1. ALL WORK SHOWN ON THIS DRAWING SHALL BE INCLUDED UNDER THE PUBLIC PORTION OF THE WORK. 2. MANUAL DRY CLASS I STANDPIPE SYSTEM IN THE UN-HEATED TUNNEL SHALL HAVE MINIMUM 6" PIPING. STANDPIPE SYSTEM SHALL HAVE NO PERMANENT WATER SUPPLY AND THE INLET PRESSURE SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 14 AND ADDITIONAL REQUIRED BY THE LOCAL AHJ. ESTIMATED PRESSURE/FLOW/STATIC/RESIDUAL/FLOW/TIME TO FILL PIPING/ DELIVERY TIME CALCULATION MUST BE PERFORMED FOR THE TUNNEL'S MANUAL DRY CLASS I STANDPIPE SYSTEMS. AS REQUIRED BY THE AHJ, THE DELIVERY TIME CALCULATION SHALL PROVE THAT WATER CAN BE PROVIDED TO THE MOST REMOTE HOSE VALVE FROM THE FIRE DEPARTMENT CONNECTION IN 10 MINUTES OR LESS. 3. MANUAL DRY DELUGE SPRINKLER SYSTEM FOR SPRINKLER PROTECTION AT THE TUNNEL CEILING SHALL BE AS FOLLOWS: EACH DELUGE SPRINKLER ZONE SHALL BE LIMITED TO 100-110 FEET IN LENGTH ALONG THE ROADWAY. THE OPERATION OF THE DELUGE SYSTEM SHALL BE ENTIRELY MANUAL. EACH DELUGE ZONE SHALL BE ELECTRICALLY ACTUATED BY A PUSH BUTTON ON A GRAPHIC PANEL LOCATED IN THE 100 COLLEGE STREET TUNNEL COMMAND CENTER. THE CALCULATION AREA SHALL INCLUDE TWO DELUGE ZONES PLUS 750 GPM HOSE STREAM ALLOWANCE WITH A DESIGN DENSITY OF 0.350 PM/SQ-FT OVER THE AREA INCLUDED IN THE TWO DELUGE ZONES. AN ADDITIONAL "TIME TO FILL PIPING" DELIVERY TIME CALCULATION MUST BE PERFORMED FOR THE TUNNEL'S DELUGE SPRINKLER SYSTEMS. AS REQUIRED BY THE AHJ, THE DELIVERY TIME CALCULATION SHALL PROVE THAT WATER CAN BE PROVIDED TO THE MOST REMOTE DELUGE ZONE FROM THE FIRE DEPARTMENT CONNECTION IN 5 MINUTES OR LESS.	XXX

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Code Consultant
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508 273 9484

PROJECT NUMBER: 19050
DATE: MAR. 25, 2020
60% TUNNEL SET
REVISIONS:
SCALE: As indicated
DRAWING NAME: FIRE PROTECTION TUNNEL PLAN
DRAWING NUMBER: FP100.1T

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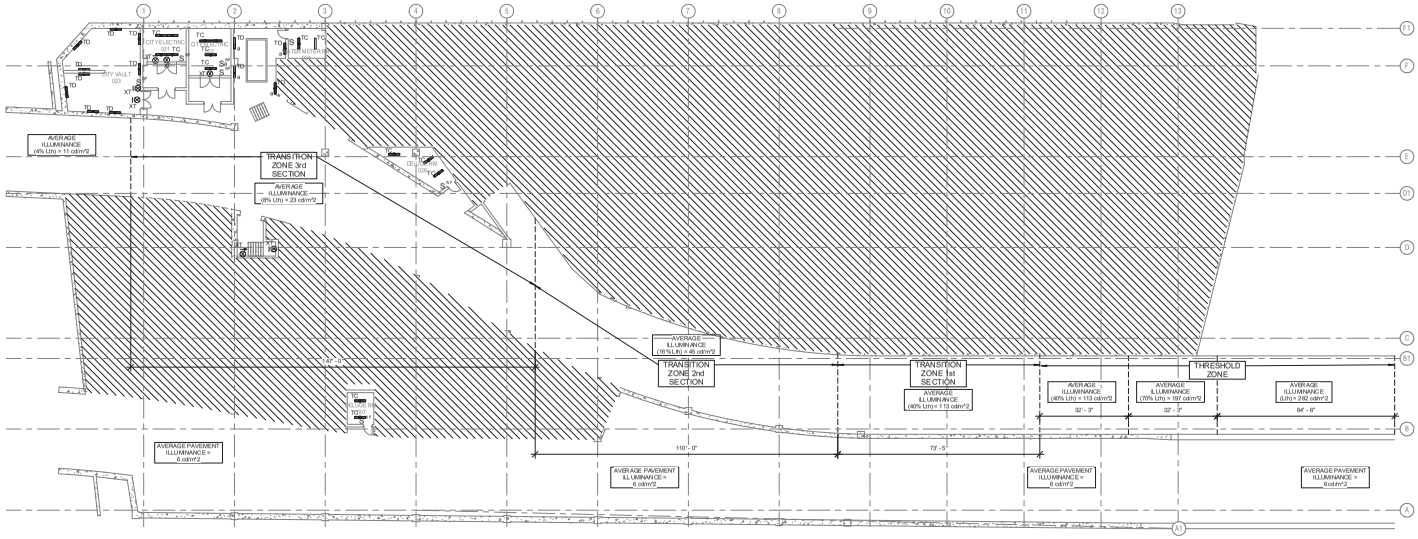
Exhibit J: 101 Tunnels and Driveways Drawings (60% Design Development) and Drainage Pipe Located on the 101 College Street Parcel



1 EL100T ELECTRICAL LIGHTING PLAN - TUNNEL
SCALE: 1/16" = 1'-0"

SHEET NOTES	KEYED NOTES
1. ALL TUNNEL FIXTURE HEIGHTS AND LOCATIONS SHALL BE MOUNTED AS NOTED ON DRAWINGS, AND SECURELY FASTENED TO THE STRUCTURE ABOVE BY AN APPROVED MEANS, PER STRUCTURAL ENGINEER REQUIREMENTS. APPROVED SAFETY SUPPORTS AND UNISTRUT FRAMING TO SUPPORT FIXTURE SHALL BE PROVIDED AS REQUIRED TO PREVENT FIXTURE SWAYING. FIXTURE BRACKETS AND ADDITIONAL SAFETY SUPPORTS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. ALL FIXTURES SHALL BE RATED FOR THE TUNNEL'S ENVIRONMENTAL CONDITIONS. ALL FRAMING, SUPPORTS, FASTENERS, ETC. SHALL BE SUITABLE FOR CORROSIVE CONDITIONS. 2. EMT OR PVC SHALL NOT BE USED EXPOSED IN TUNNEL AREA. USE GALVANIZED RIGID STEEL, STAINLESS STEEL, OR PVC ENCASED IN CONCRETE PER NFPA 502. ALL EMERGENCY CIRCUITS AND FEEDERS SHALL UTILIZE MI CABLE OR CONDUIT EMBEDDED IN CONCRETE. ALL CONDUCTORS USED IN TUNNEL SHALL BE RESISTANT TO SPREAD OF FIRE, MOISTURE, AND HEAT RESISTANT AND LISTED OR USE IN WET LOCATIONS. CONDUCTORS AND CABLES USED IN TUNNEL SHALL EMIT LESS THAN 2 PERCENT ACID GAS, TESTED IN ACCORDANCE WITH MIL C 24643. ALL CABLE AND WIRE SHALL BE LOW SMOKE THERMOPLASTIC (LSTP) JACKET, AND IN ACCORDANCE WITH ICEA, UL, NFPA 502 REQUIREMENTS. INSTALLATION OF CONDUITS AND WIRING WITHIN TUNNEL AREA SHALL BE IN ACCORDANCE WITH NFPA 70 AND NFPA 502.	1 KEYED NOTE.

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860 646 2469

Code Consultant
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Framingham, MA 01701
508 273 9484

PROJECT NUMBER: 19050

DATE: MAR. 25, 2020

60% TUNNEL SET

REVISIONS:

SCALE: As indicated

DRAWING NAME:
ELECTRICAL TUNNEL LIGHTING PLAN

DRAWING NUMBER:
EL100T

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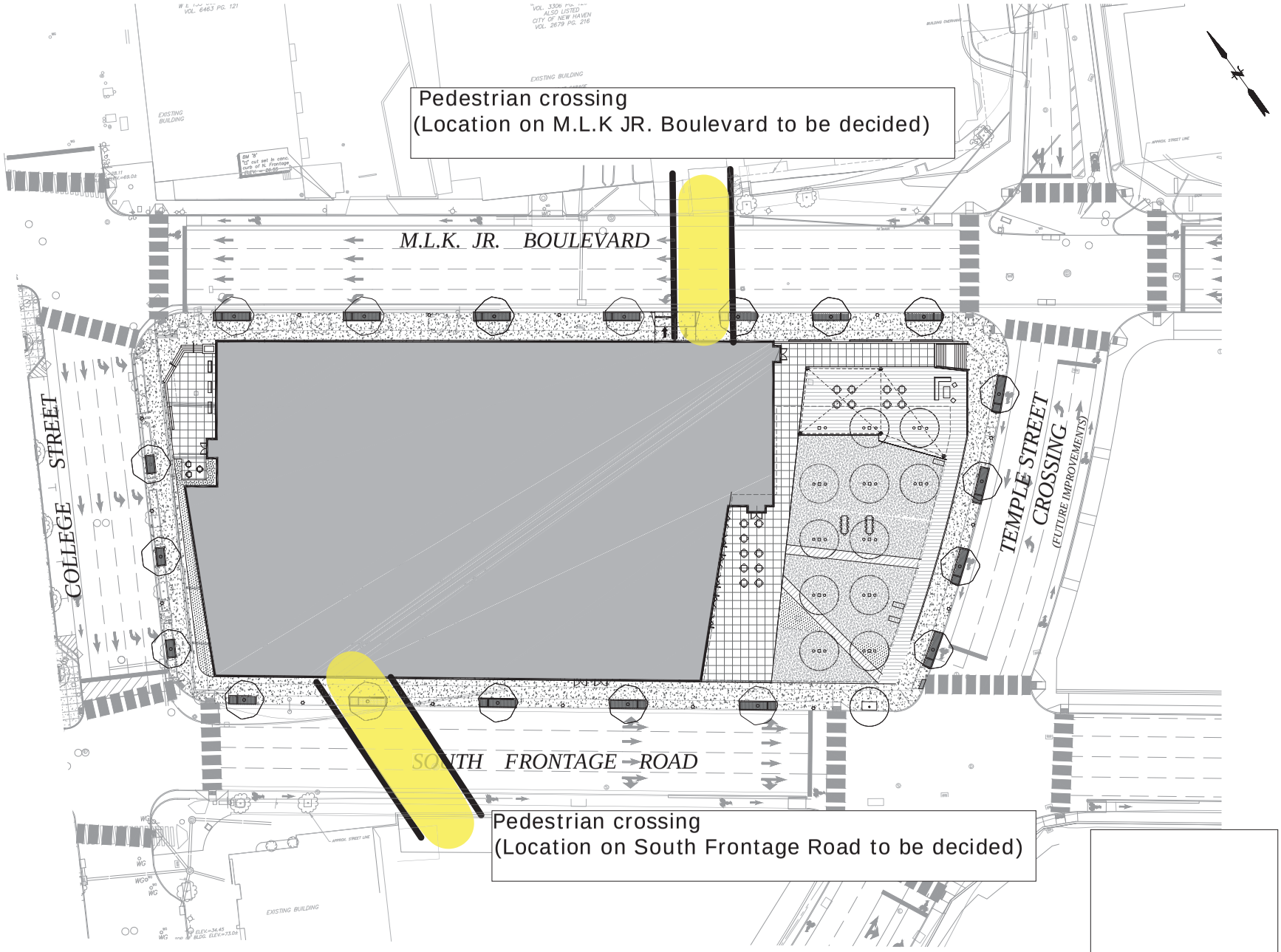

NOTE:

1) THE QUANTITY AND LOCATION OF TREES, FURNITURE, AND OTHER SITE AMENITIES MAY CHANGE THROUGH THE DESIGN AND APPROVAL PROCESS.

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PROJECT NUMBER: 19050

DATE: FEB 5, 2020

REVISIONS:

SCALE: 1"=20'
20 10 0 20
GRAPHIC SCALE

Pedestrian connections

EXHIBIT N

File Path: J:\CNVC\2019\19050\ARCH\Cad\Figures\Exhibit E-Land.layout: EXHIBIT E Plotted: Tuesday, February 11, 2020 - 11:25 AM User: VCHABAN/ALLOTI
Plotter: NONE CTB File: FO 2009.MONO.CTB
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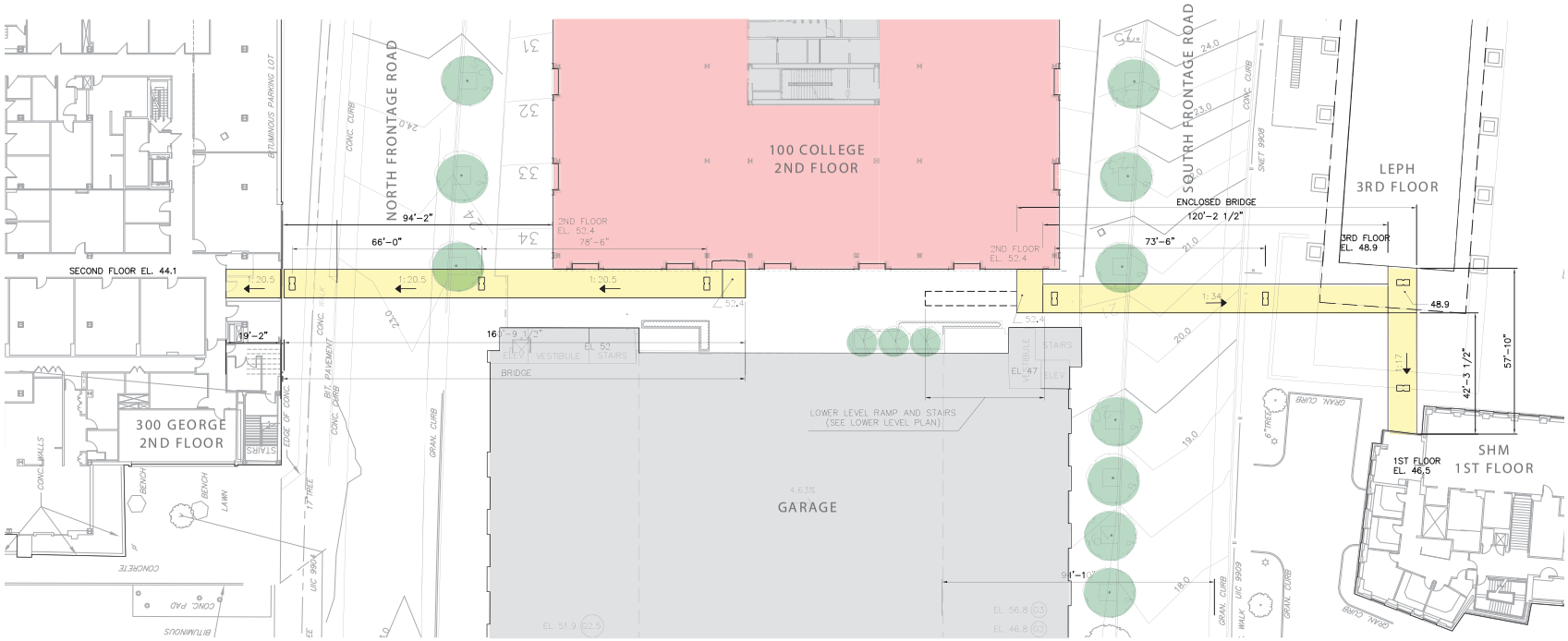
11/25/2019 12:02:56 PM

Exhibit N

100 College Street Bridge DRAFT

| ELKUS MANFREDI ARCHITECTS



PLAN VIEW UPPER LEVEL BRIDGE

New Haven, Connecticut

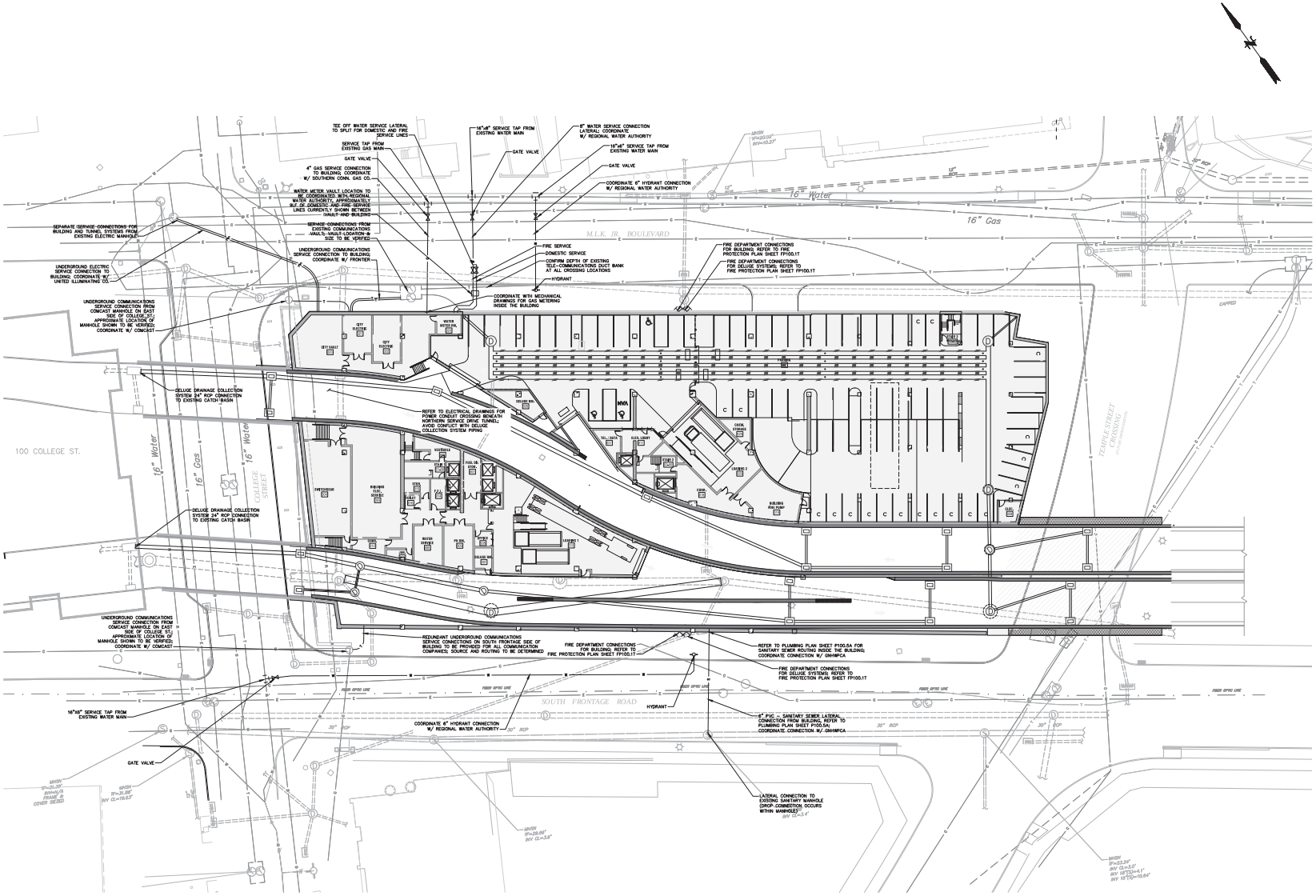
WINSTANLEY ENTERPRISES, LLC
Commercial Development & Asset Management

CONCEPT PLANS SCHEME 2

N 0 20 40

ELKUS | MANFREDI ARCHITECTS

Exhibit O: Sewer and Utilities Plan



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PROJECT NUMBER 19050

DATE: MAR. 25, 2020

60% TUNNEL SET

REVISIONS:

SCALE: 1"=20'

20 10 0 20
GRAPHIC SCALE

DRAWING NAME:

Site Utility Plan
Basement Level

DRAWING NUMBER:

CU-101

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Plotter: NONE CTB File: FC-2008 MONO.CTB

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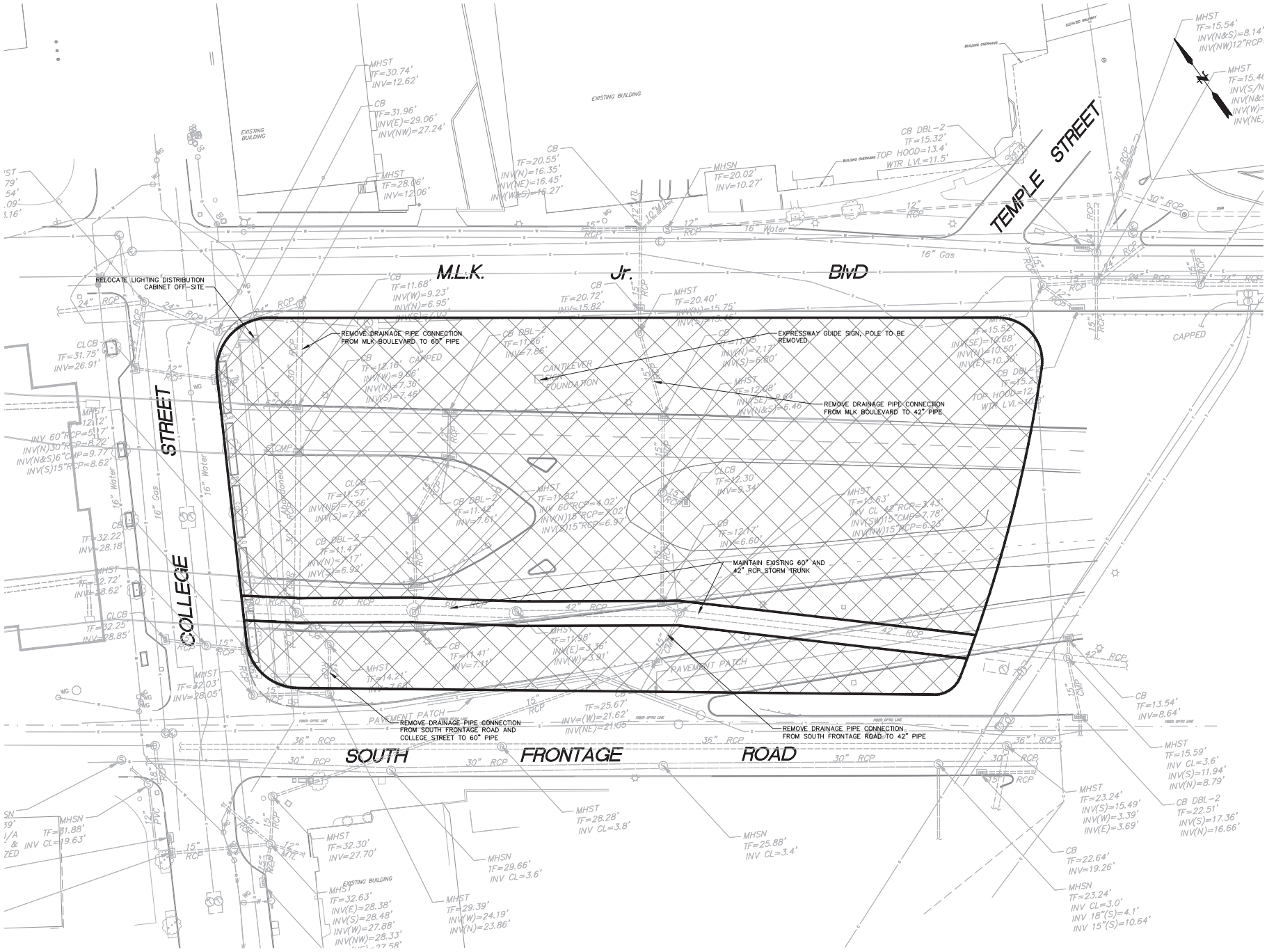

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PROJECT NUMBER: 19050

DATE: FEB 5, 2020

10% & 30% TUNNEL SET

REVISIONS:

SCALE: 1"=20'

20 10 0 20
GRAPHIC SCALE

DRAWING NAME:
Condition of the Site at Closing

DRAWING NUMBER:

Exhibit R

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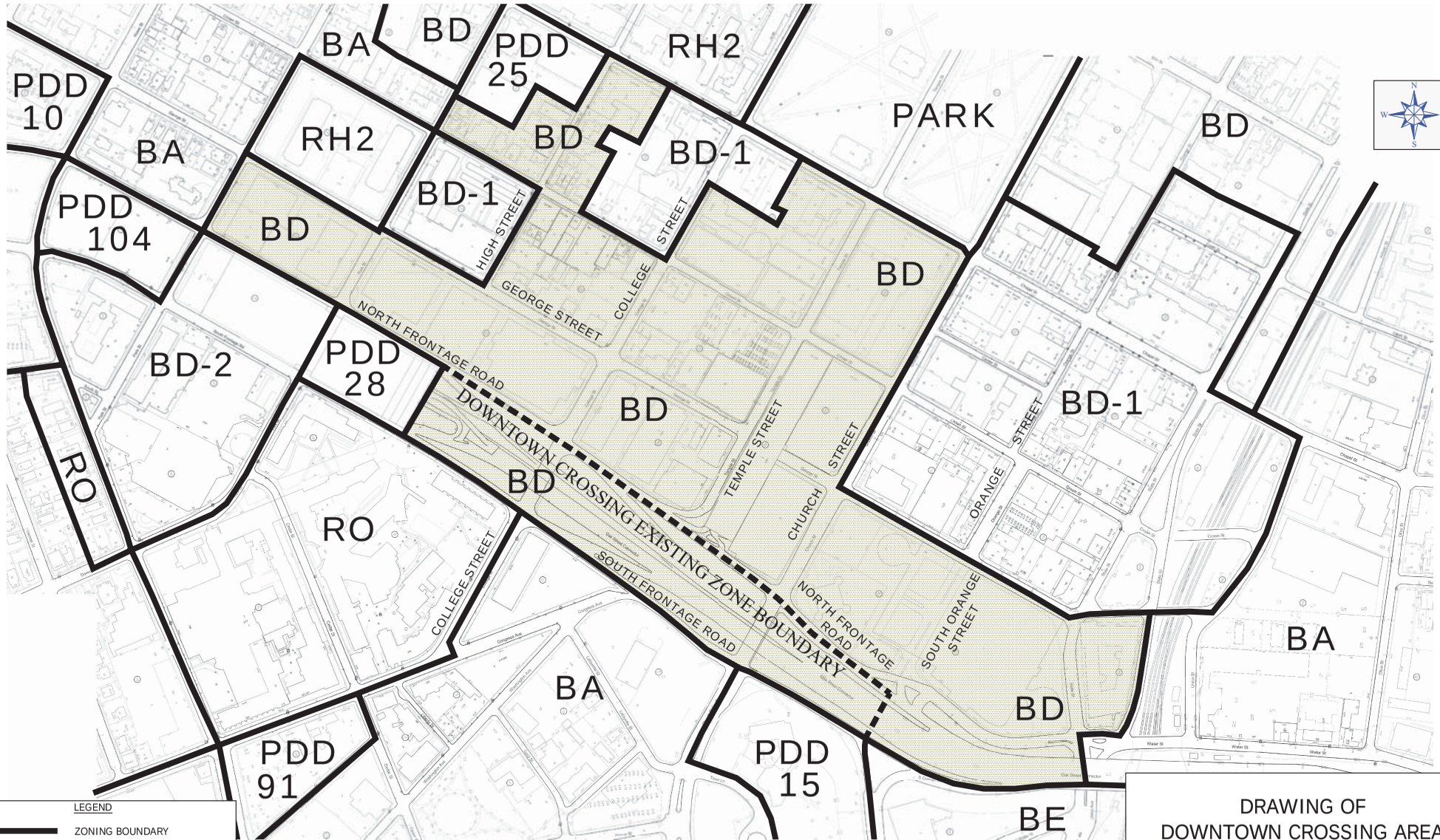

LEGEND

ZONING BOUNDARY

PDD - Planned Development District
RH2 - General High Density Residential District
RO - Residence-Office
BA - General Business
BD - Central Business
BD-1 - Central Business/Residential
BD-2 - Central Business/Medical
BD - Central Business
BE - Wholesale and Distribution

J:\DWG\P2006\0654\H30\Presentation\20060654H30_PREO1_Zone_Change_Maps.dwg

DRAWING OF DOWNTOWN CROSSING AREA

NEW HAVEN, CONNECTICUT

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EXHIBIT X-1