November 25, 2026

Osler Peterson, Chair
Town of Medfield
459 Main Street
Medfield, MA 02052

Re: North Meadows Road (Route 27) at West Street Intersection Improvements
MassDOT Project No #612807

Dear Mr. Peterson and Select Board:

The Town of Medfield and Massachusetts Department of Transportation (MassDOT) Highway Division propose traffic and pedestrian improvements at the intersection of North Meadows Road (Route 27) and West Street in western Medfield, Massachusetts (the Project). The Project proposes removal of the existing traffic signal system and the installation of a multi-lane roundabout with an ADA-compliant sidewalk level 10-foot-wide shared use path with a 5' grass buffer to the roadway, curb ramps, and marked crosswalks. The enclosed Project description is included for the Select Board's review.

The Route 27 and West Street intersection was identified by the MassDOT Highway Safety Improvement Program as a high crash location for the periods of 2015-2017 and 2016-2018. The purpose of the Project is to improve traffic operations, as well as pedestrian and bicycle infrastructure at the intersection, which will contribute to the safety of all users.

The Town of Medfield and MassDOT Highway Division request that the Select Board review the enclosed materials at your earliest convenience and provide any comments that the Board wishes to make regarding this project. Written comments should be submitted, preferably within 30 days, to: Carrie Lavallee, P.E., Chief Engineer, MassDOT Highway Division, 10 Park Plaza, Boston, MA 02116, Attn: Kimberley Sloan, Kimberley.Sloan@dot.state.ma.us. Please also copy BETA Group, Inc. Attn: Jaklyn Centracchio at JCentracchio@BETA-Inc.com or the address below.

If we can be of any further assistance regarding this matter, please contact us at our office.

Very truly yours,
BETA Group, Inc.

Jaklyn Centracchio

Jaklyn C. Centracchio, PE, PTOE, LEED Green Associate
Associate

Atts: Project Description
Figure 1 – Location Map
Figure 2 – General Plan

cc: Kimberley Sloan, MassDOT (w/o att)

BETA GROUP, INC.
701 George Washington Highway, Lincoln, RI 02865
P: 401.333.2382 | F: 401.333.9225 | W: www.BETA-Inc.com

Medfield – North Meadows Road (Route 27) at West Street Intersection (MassDOT Project #612807)

Project Description

The North Meadows Road (Route 27) and West Street Intersection Improvements Project, MassDOT Project #612807 (the Project), proposes geometric, traffic, bicycle and pedestrian improvements at the intersection of Route 27 and West Street in Medfield, Massachusetts. The purpose of the Project is to improve safety and traffic operations, as well as pedestrian and bicycle infrastructure at the intersection, which will contribute to the safety of all users. The Route 27 and West Street intersection was identified by the MassDOT Highway Safety Improvement Program as a high crash location for the periods of 2015-2017 and 2016-2018. The Project proposes removal of the existing traffic signal system and the installation of a multi-lane roundabout with an ADA-compliant sidewalk level shared use path, curb ramps, and marked crosswalks.

West Street intersects Route 27 from the southwest and northeast to form a four-legged signalized intersection. West Street is a known cut-through, or commuting bypass, that provides connections to Route 109 west of the Charles River (Town of Millis) and to the Town of Medfield and the Town of Dover. Route 27 generally provides one 14-foot travel lane and one 5-foot bike lane, with no buffer, in each direction, separated by double yellow center lines. West Street provides one travel lane in each direction, separated by double yellow center lines. On the southern leg of West Street, the 40-foot-wide roadway accommodates approximately 12-foot-wide travel lanes and 5-foot bicycle lanes with a 3-foot buffer. On the northern side of West Street, the 40-foot-wide roadway accommodates approximately 12-foot-wide travel lanes with 8-foot shoulders. There are no sidewalks along either side of Route 27 or West Street within the Project.

Proposed improvements include reconstruction of the intersection to accommodate a multi-lane roundabout. The roundabout will include a single approach lane for the east and west directions (Route 27). The north and south approach lanes (West St.) will have a dedicated lane for left-turn vehicles and a shared lane for through and right turning vehicles. Bicycle accommodation at the intersection will include a sidewalk-level 10-foot-wide shared use path with a 5’ grass buffer to the roadway. Pedestrian improvements will include a ADA-compliant shared use path, curb ramps, and marked crosswalks. For stormwater management, the Project will modify existing low-lying swales at each corner of the intersection to accommodate changes to roadway geometry, which may include new check dams, sediment forebays, and outlet control structures. To reconstruct the intersection, an increase in impervious surface and tree removal will be required

The Project will not alter any wetland Resource Areas; however, work is proposed within the 100-foot Buffer Zone to Bordering Vegetated Wetlands (BVW) on Route 27 at the northern limit of work. All work will remain outside of the local 50-foot no disturb area from BVW regulated under the Town of Medfield Wetland Bylaw. Additionally, the Project will occur within a Primary Aquifer Zone within the locally regulated Aquifer Protection District.



BETA
IMPROVING COMMUNITIES TOGETHER

Figure 1
Site Locus
Route 27 at West Street
Intersection Improvements
Medfield, MA

N
W E
S

0 1,000 2,000 Feet

1 inch = 1,000 feet

Data Source: USGS Topographic Map (1982-1990)

HIGHWAY GUARD DETAILS

STA 101+00 RT TO STA 101+34 RT TRANSITION TO NCHRP 350 GUARDRAIL
STA 101+34 RT TO 203+58 LT (WEST ST) GUARDRAIL, TL-2 WITH DEEP POSTS
STA 203+49 LT (WEST ST) TO 203+58 LT (WEST ST) TRAILING ANCHORAGE

STA 106+51 RT TO STA 106+60 RT TANGENT END
STA 106+60 RT TO STA 107+94 RT GUARDRAIL, TL-2
STA 107+94 RT TO STA 108+03 RT TRAILING ANCHORAGE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

CONTINUED ON SHEET NO. 13

SEE UTILITY PLANS

DRAINAGE DETAILS

SEE UTILITY PLANS

MEDFIELD
ROUTE 27 AND WEST STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	######	11	49
PROJECT FILE NO.	612807		

CONSTRUCTION PLANS

612807_HDI(CONSTRUCTION PLANS).DWG Plotted on 24-Nov-2026 3:24 PM

N
NAD 83

TOWN OF MEDFIELD 20' WIDE SEWER EASEMENT PB 237 PG 484

67 WEST STREET, LLC
BK/PG 15377/148
PLAN 618 OF 1959 BK/PG 3730/88
67 WEST STREET

1
N: 2895196.348'
E: 703889.987'
EL: 142.412'
IR/CAP(SET)

58 STERLING AVE AND 67 LINDSAY ROAD, LLC
L.C.C. No. 383–K (LOT 6)
CERT. NO. 215804
DOC. NO. 1571350
51 PETER KRISTOF WAY

RICKS AUTO BODY INC
BK/PG 5095/143
PLAN 618 OF 1959
BK/PG 3730/88
N MEADOWS ROAD

25
N: 2895019.092'
E: 704158.512'
EL: 147.952'
8IN SPK(SET)

COMMONWEALTH OF MASSACHUSETTS
DRAINAGE EASEMENT
PLAN #903 OF 1975

540 HILLSIDE AVENUE, LLC
BK/PG 41729/331
PLAN 618 OF 1959 BK/PG 3730/88
100 N MEADOWS ROAD

HILLSIDE VILLAGE APARTMENTS, LLC
L.C.C. No. 383–O (LOT 12)
CERT. NO. 203470
DOC. NO. 1456063
80 NORTH MEADOWS ROAD

NEEDHAM INVESTMENT COMPANY LLC
L.C.C. No. 383–K (LOT 7)
CERT. NO. 179063
DOC. 1182183
90 N MEADOWS ROAD

N MEADOWS RD (ROUTE 27)

WEST ST

PROP HMA DWY SAWCUT
PROP PERM EASEMENT
PROP GRASS STRIP
PROP HMA WALK
R&D TREE
PROP CC BIKE RAMP
PROP FULL DEPTH PVMT
PROP GRAN CURB TYPE VB (TYP)
PROP CC ISLAND
PROP RAISED CROSSWALK
PCR-14
R&R "BANFIELD PET HOSPITAL" SIGN (BO)
R&D SHRUBS
PROP CC PCR
RET TREE
PROP TREE PROTECTION FENCE
PROP LOAM AND SEED FOR LAWNS (TYP)
PROP PERM EASEMENT
PROP GRASS STRIP (TYP)
PROP TEMP EASEMENT
R&R "THE CENTER AT MEDFIELD/KINGSBURY CLUB" SIGN (BO)
APPROX. LIMIT OF GRADING (TYP)
PCR-12
PROP CC PCR
PROP RAISED CROSSWALK
PROP GRAVEL DWY
R&D TREE
PROP GRAN CURB TYPE VB
PROP FULL DEPTH PVMT
PROP PERM EASEMENT
R&D HIGHWAY GRD
PROP CC ISLAND
PROP TEMP EASEMENT
PCR-11
PCR-13
PROP GRASS STRIP (TYP)
PROP TREE PROTECTION - ARMORING & PRUNING
RET TREE
PROP LOAM AND SEED FOR LAWNS (TYP)
PROP SEDIMENT CONTROL BARRIER
PROP HMA SHARED USE PATH
PROP FULL DEPTH PVMT
R&D TREE
APPROX. LIMIT OF GRADING (TYP)
PROP GRAN CURB TYPE VB (TYP)
PROP PVMT MILLING & OVERLAY
PROP HMA DWY SAWCUT
PROP CC PCR
PROP CC ISLAND
PROP GRAN CURB TYPE VB
PROP HMA SHARED USE PATH
PROP PERM EASEMENT
PROP MODIFIED GRAN CURB
PROP GRAN CURB TYPE VB (TYP)
PROP STAMPED CONC TRUCK APRON
PROP CC PCR
PROP CC ISLAND
PROP SEDIMENT CONTROL BARRIER
PROP CC BIKE RAMP
PROP CC PCR
PCR-3
PCR-4
PCR-5
PCR-6
PCR-7
PCR-8
PCR-9
PCR-10
PCR-15
PCR-16
PCR-17
PCR-18
PCR-19
PROP BRICK PAVER
PROP PVMT MILLING & OVERLAY
PROP FULL DEPTH PVMT
PROP HMA DWY SAWCUT
PROP HMA SHARED USE PATH
R&D TREE
PROP SEDIMENT CONTROL BARRIER
PROP GRAN CURB TYPE VB (TYP)
PROP MODIFIED GRAN CURB
PROP GRAN CURB TYPE VB
SEE LANDSCAPE PLAN
PROP STAMPED CONC TRUCK APRON
R&D HIGHWAY GRD
APPROX. LIMIT OF GRADING (TYP)
PROP LOAM AND SEED FOR LAWNS (TYP)
PROP GRASS STRIP (TYP)
PROP TREE PROTECTION - ARMORING & PRUNING
PROP GRAN CURB TYPE VB (TYP)
PROP LOAM AND SEED FOR LAWNS (TYP)
APPROX. LIMIT OF GRADING (TYP)
PROP STAMPED CONC TRUCK APRON
PROP MODIFIED GRAN CURB
PROP CC PCR
PROP RAISED CROSSWALK
R&D TREE
PROP CC PCR
PROP GRAVEL DWY
REM WALL
PROP 60 INCH CLF, VINYL COATED
PROP MODULAR BLOCK WALL
PROP TEMP EASEMENT
SAWCUT
PROP PERM EASEMENT
PROP HMA DWY
PROP PVMT MILLING & OVERLAY
RET TREE
PROP CC PCR
PROP RAISED CROSSWALK
PROP CC ISLAND
PROP GRAN CURB TYPE VB (TYP)
PROP FULL DEPTH PVMT
PROP FULL DEPTH WIDENING
PROP TEMP EASEMENT
PROP PERM EASEMENT
PROP HMA DWY SAWCUT
PROP HMA SHARED USE PATH
R&D TREE
PROP SEDIMENT CONTROL BARRIER
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PROP HMA DWY SAWCUT
PROP GRAN CURB TYPE VB (TYP)
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PROP GRASS STRIP (TYP)
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PROP GRASS STRIP (TYP)
PROP TREE PROTECTION - ARMORING & PRUNING
PROP TEMP EASEMENT
PROP PERM EASEMENT

L=34.12' R=100.00'
Δ=19° 32' 47"
PC +11.88

Δ=21° 31' 00"
L=187.77' R=500.00'

PRC +45.99

PRC +03.51
PT +32.47
PCC +58.56
L=44.95' R=200.00'
Δ=12° 52' 40"

L=28.95' R=80.00'
Δ=20° 44' 06"
S 49° 20' 32" E 56.26'

PC +88.73
PT +22.04

N 48° 03' 35" E 89.84'

Δ=21° 59' 00"
L=172.66' R=450.00'
PC +49.38

Δ=2° 38' 34"
L=461.27' R=10000.00'

PROP GRAVEL DWY
PROP GRAN CURB TYPE VB
PROP LOAM AND SEED FOR LAWNS (TYP)
PROP TREE PROTECTION - ARMORING & PRUNING
PROP HMA SHARED USE PATH
R&D HIGHWAY GRD
PROP PVMT MILLING & OVERLAY
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PROP TEMP EASEMENT
PROP PERM EASEMENT

CONTINUED ON SHEET NO. 12
CONTINUED ON SHEET NO. 12
CONTINUED ON SHEET NO. 13

0 20 50 100
SCALE: 1" = 20'

FOR CONSTRUCTION PROFILE:
SEE SHEET NOS. 14 - 17

HIGHWAY GUARD DETAILS

STA 101+00 RT TO STA 101+34 RT TRANSITION TO NCHRP 350 GUARDRAIL
STA 101+34 RT TO 203+58 RT (WEST ST) GUARDRAIL, TL-2 WITH DEEP POSTS

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

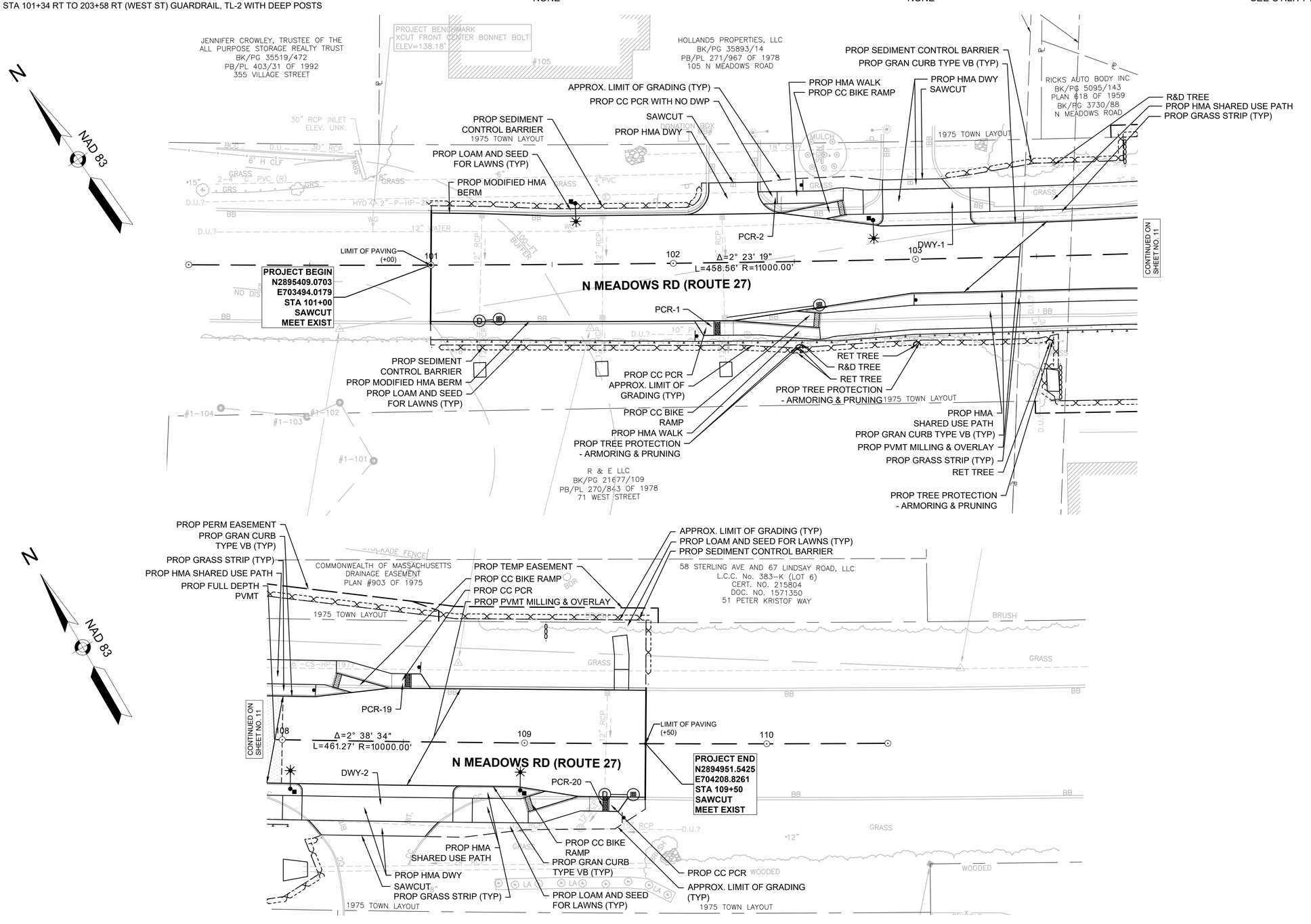
DRAINAGE DETAILS

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ROUTE 27 AND WEST STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	#######	12	49
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FOR CONSTRUCTION PROFILE:
SEE SHEET NOS. 14 - 15

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STA 203+49 RT (WEST ST) TO 203+58 RT (WEST ST) TRAILING ANCHORAGE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE UTILITY PLANS

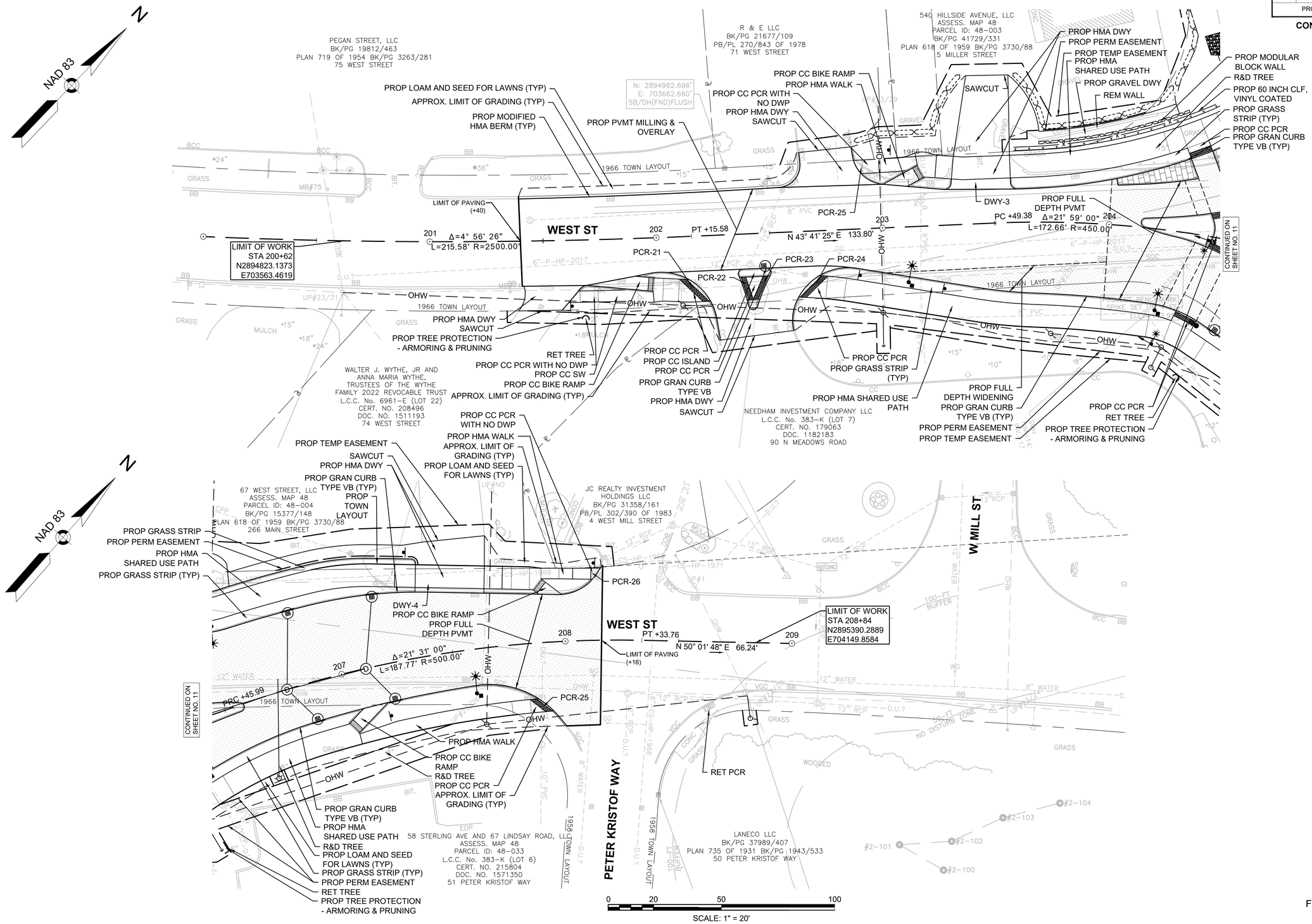
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FOR CONSTRUCTION PROFILE:
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