

HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
SEE SHEET NO. 178

WATER SUPPLY ALTERATIONS
SEE SHEET NO. 116 - PART 1 OF 18

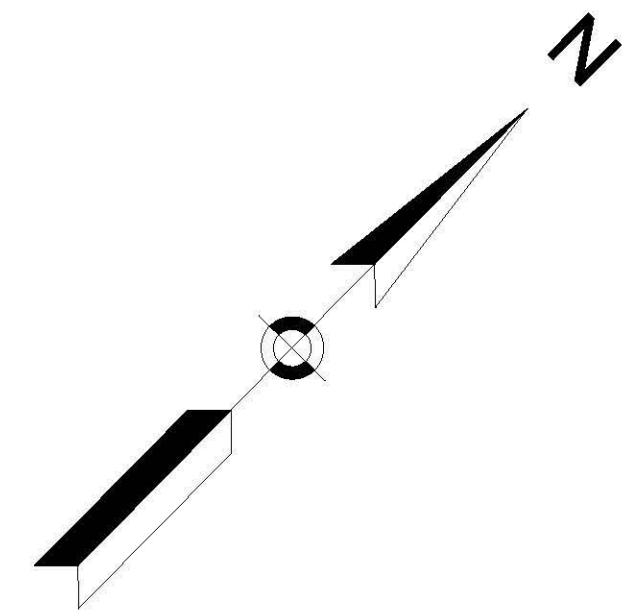
DRAINAGE DETAILS
SEE SHEET NO. 116

CONTINUED ON INSET 1

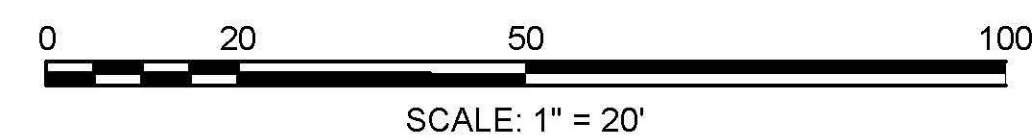
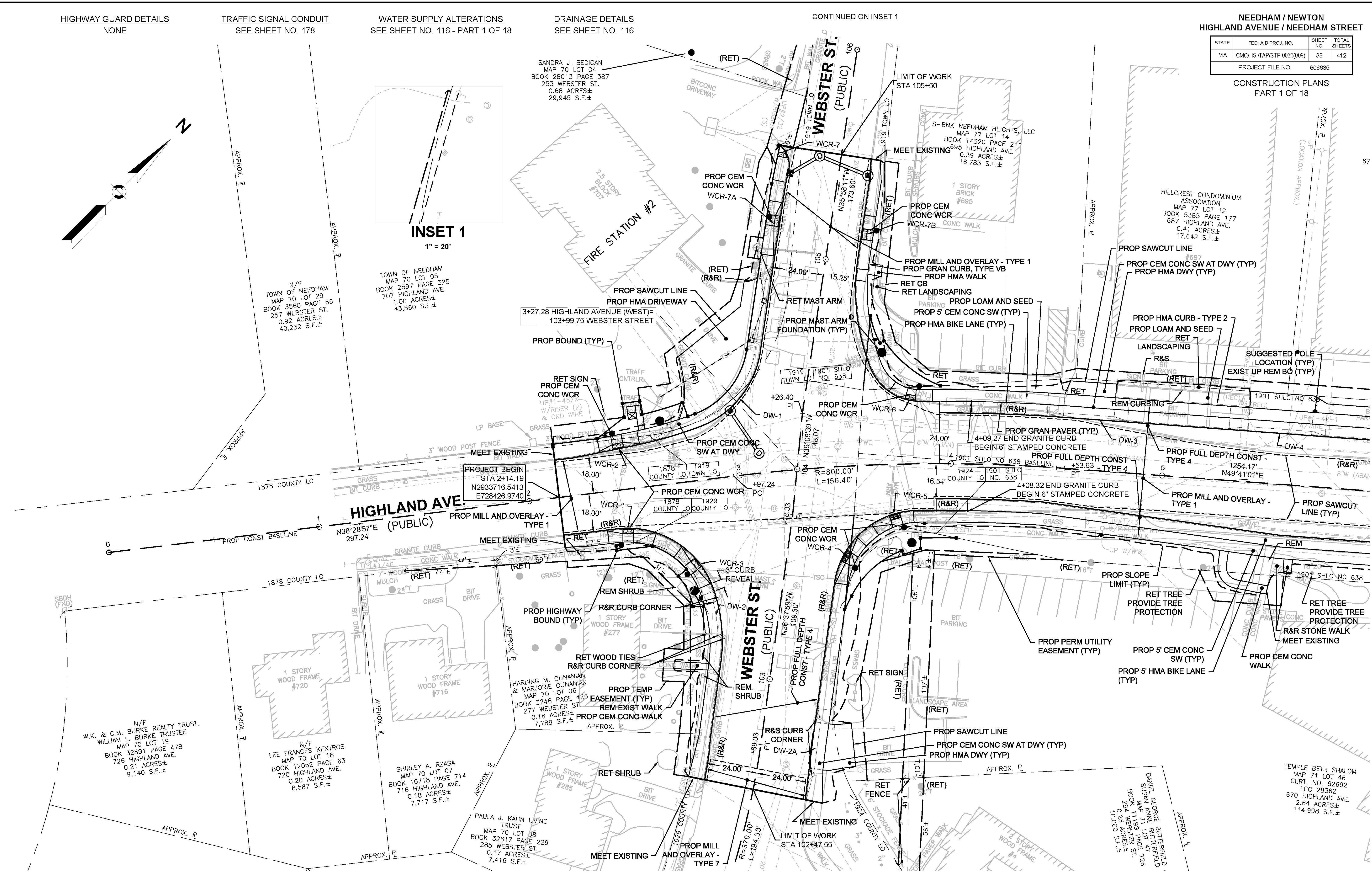
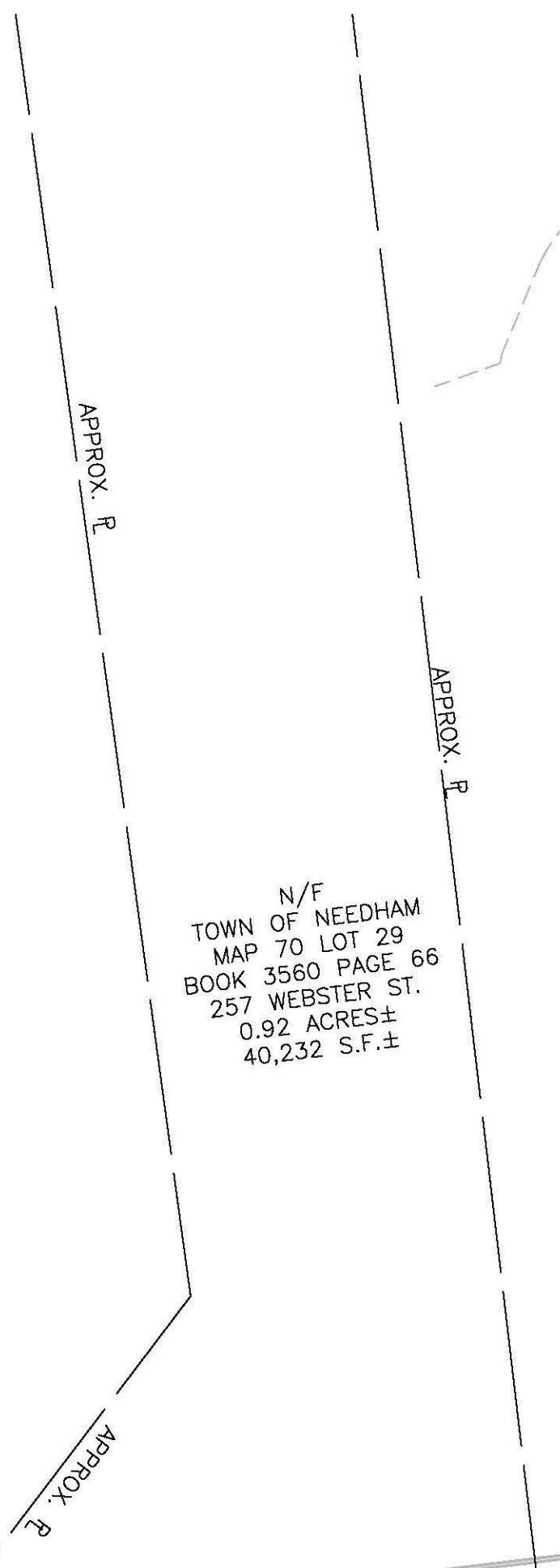
NEEDHAM / NEWTON
HIGHLAND AVENUE / WEBSTER STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQHS/ITAP/STP-0036(009)	38	412
PROJECT FILE NO.		606635	

CONSTRUCTION PLANS
PART 1 OF 18



INSET 1
1" = 20'



SCALE: 1" = 20'

FOR PROFILE SEE SHEET NO. 56_57_75

REV. NO	DESCRIPTION	DATE

606635_HD(CONST) PLANS 1-18).DWG
Plotted on 5-Jun-2020 3:11 PM

NEEDHAM / NEWTON
HIGHLAND AVENUE / NEEDHAM STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQHS/ITAP/STP-0036(009)	39	412
PROJECT FILE NO.		606635	

CONSTRUCTION PLANS
PART 2 OF 18

HIGHWAY GUARD DETAILS
 STA 140+60_RT - FLARED END
 STA 140+60 TO 141+00_RT
 STA 141+00_RT - TRAILING ANCHORAGE
 STA 7+76 TO 8+01_RT - TANGENT END
 STA 8+01 TO 9+12_RT
 STA 9+12_RT - TRAILING ANCHORAGE
 STA 9+77 TO 10+02_RT - TANGENT END
 STA 10+02 TO 10+77_RT
 STA 10+77_RT - TRAILING ANCHORAGE

TRAFFIC SIGNAL CONDUIT
SEE SHEET NO. 178

WATER SUPPLY ALTERATIONS
SEE SHEET NO. 117

DRAINAGE DETAILS
SEE SHEET NO. 117

MERCEDES REALTY TRUST
 MAP 77 LOT 10
 BOOK 28721 PAGE 182
 673 HIGHLAND AVE.
 0.53 ACRES±
 22,923 S.F.±

679 HIGHLAND AVENUE, LLC
 CERT. NO. 186735
 LCC 27721A
 679 HIGHLAND AVE.
 0.43 ACRES±
 18,834 S.F.±

NEEHIGH LLC
 MAP 77 LOT 07
 CERT. NO. 156709
 LCC 2017D
 629 HIGHLAND AVE.
 0.34 ACRES±
 14,882 S.F.±

NEEHIGH LLC
 MAP 77 LOT 08
 CERT. NO. 156709
 LCC 2017D
 633 HIGHLAND AVE.
 0.27 ACRES±
 11,622 S.F.±

NEEHIGH LLC
 MAP 77 LOT 09
 CERT. NO. 156709
 LCC 2017C
 659 HIGHLAND AVE.
 0.92 ACRES±
 39,911 S.F.±

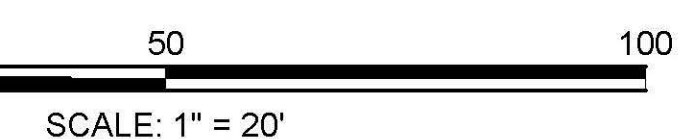
1901 SHLO NO 638
 1980 SHLO NO 5929

194 REALTY TRUST
 MAP 71 LOT 39
 BOOK 24803 PAGE 495
 648 HIGHLAND AVE.
 0.26 ACRES±
 11,334 S.F.±

TEMPLE BETH SHALOM
 MAP 71 LOT 46
 CERT. NO. 62692
 LCC 28362
 670 HIGHLAND AVE.
 2.64 ACRES±
 114,998 S.F.±

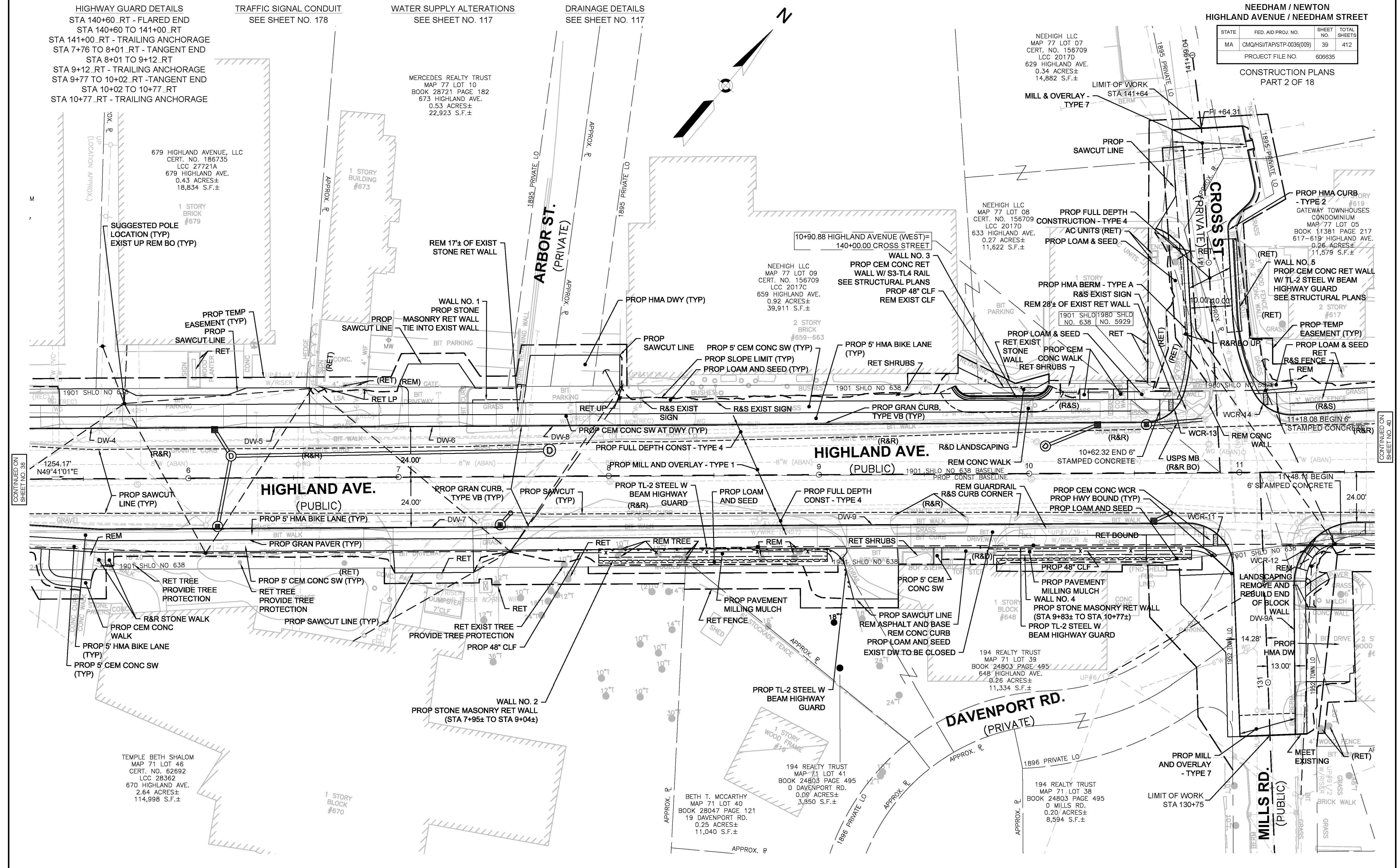
BETH T. MCCARTHY
 MAP 71 LOT 40
 BOOK 28047 PAGE 121
 19 DAVENPORT RD.
 0.25 ACRES±
 11,040 S.F.±

194 REALTY TRUST
 MAP 71 LOT 38
 BOOK 24803 PAGE 495
 0 MILLS RD.
 0.20 ACRES±
 8,594 S.F.±



FOR PROFILE SEE SHEET NO. 75

REV. NO	DESCRIPTION	DATE



HIGHWAY GUARD DETAILS
STA 17+18 LT - TANGENT END

TRAFFIC SIGNAL CONDUIT
SEE SHEET NO. 180

WATER SUPPLY ALTERATIONS
SEE SHEET NO. 119

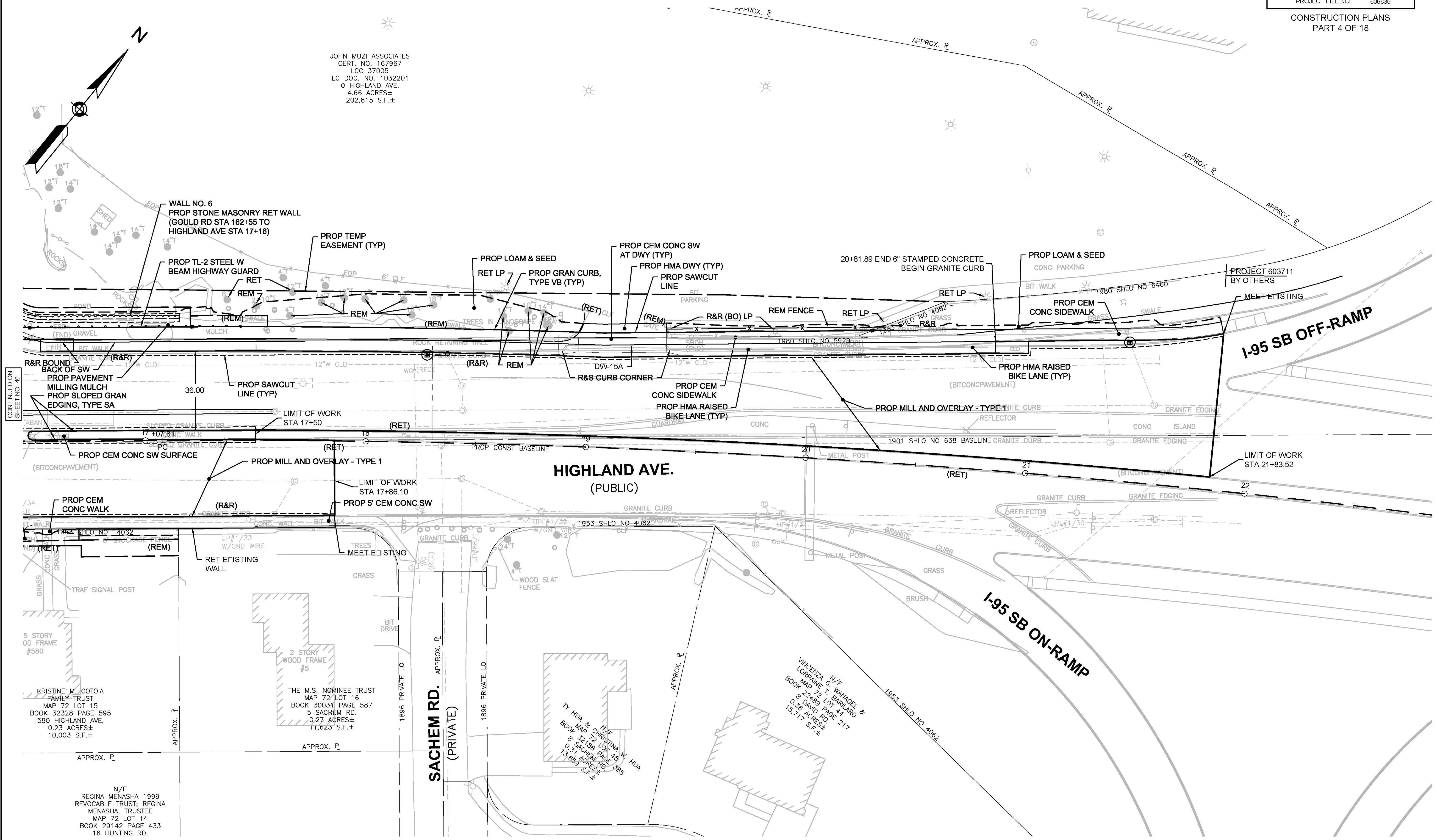
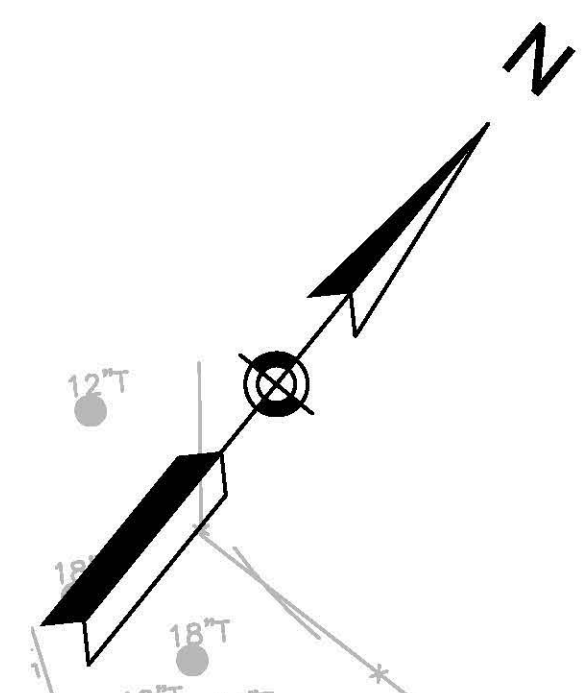
DRAINAGE DETAILS
SEE SHEET NO. 119

NEEDHAM / NEWTON
HIGHLAND AVENUE / NEEDHAM STREET

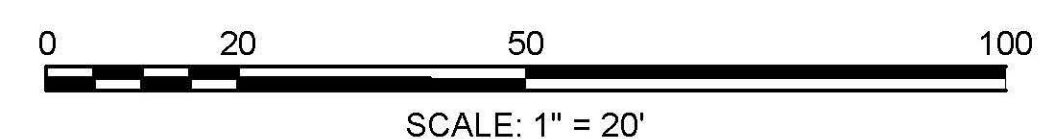
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQHS/ITAP/STP-0036(009)	41	412
PROJECT FILE NO.		606635	

CONSTRUCTION PLANS
PART 4 OF 18

JOHN MUZI ASSOCIATES
CERT. NO. 167967
LCC 37005
LC DOC. NO. 1032201
0 HIGHLAND AVE.
4.66 ACRES±
202,815 S.F.±



CONTINUED ON
SHEET NO. 40



FOR PROFILE SEE SHEET NOS. 58_59_75_79

REV. NO	DESCRIPTION	DATE

606635_HD(CONST PLANS 1-8).DWG Plotted on 5-Jun-2020 11:25 AM

HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
NONE

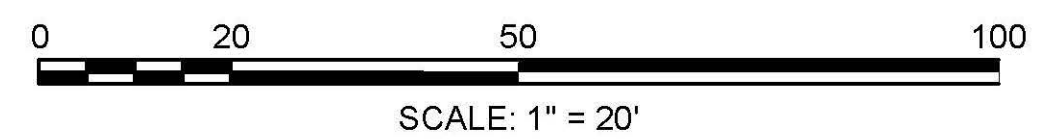
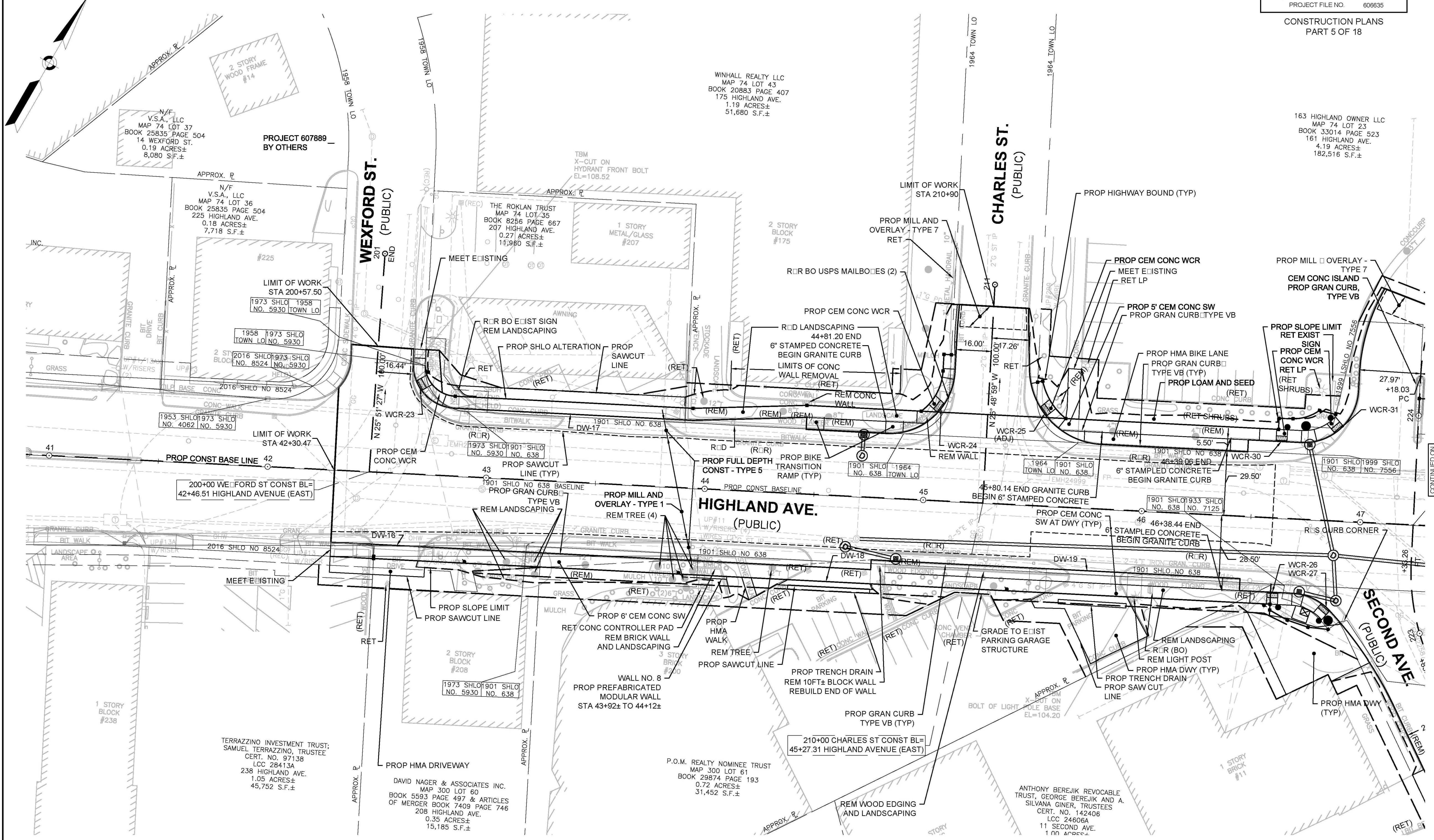
WATER SUPPLY ALTERATIONS
SEE SHEET NO. 120

DRAINAGE DETAILS
SEE SHEET NO. 120

NEEDHAM / NEWTON
HIGHLAND AVENUE / NEEDHAM STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ/HS/ITAP/STP-0036(009)	42	412
PROJECT FILE NO.		606635	

CONSTRUCTION PLANS
PART 5 OF 18



FOR PROFILE SEE SHEET NO. 60.61 76

606635_HD.CONST PLANS 1-8.DWG Plotted on 15-Jul-2019 1:53 PM

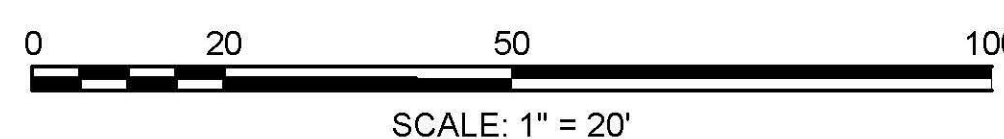
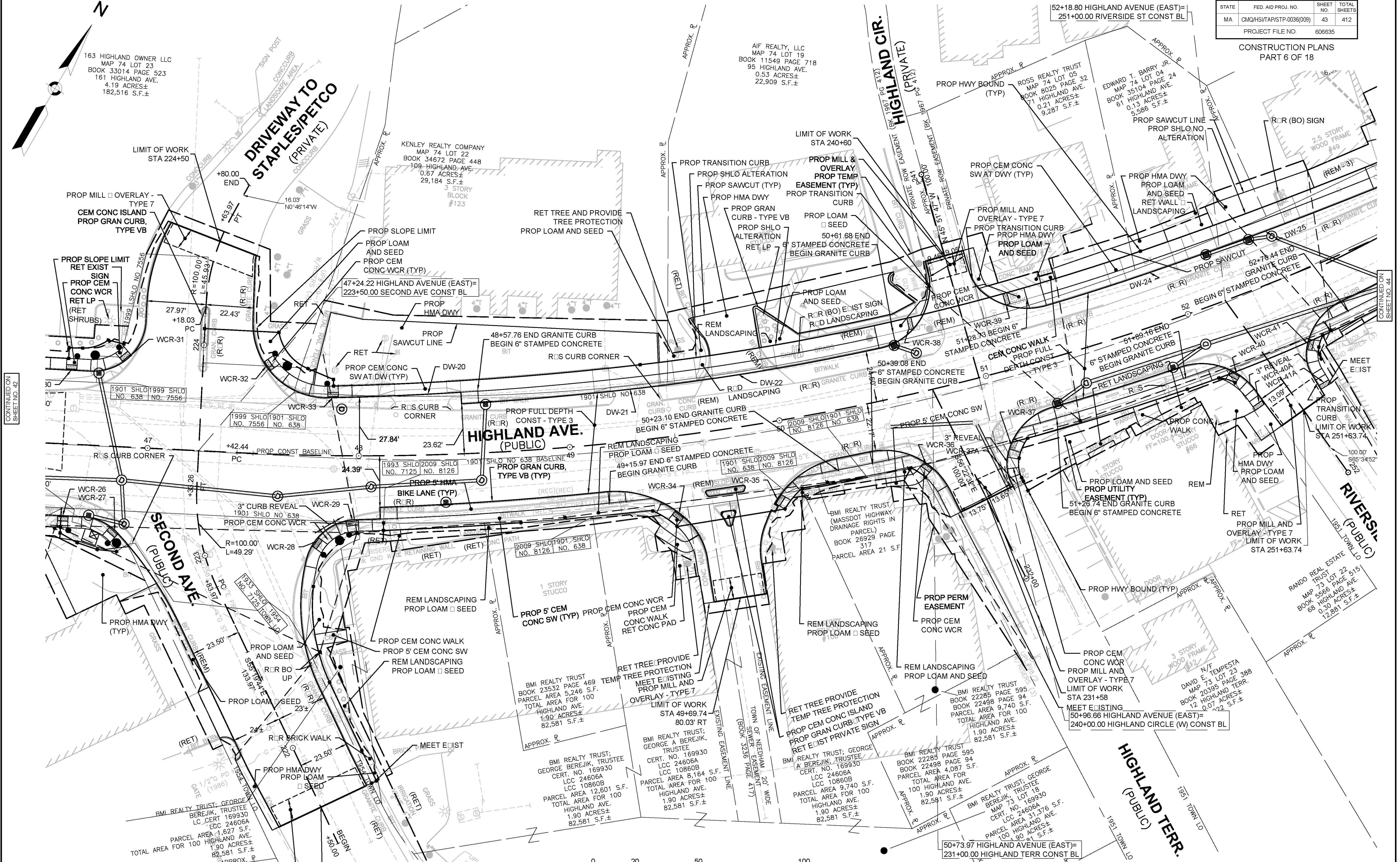
CONTINUED ON SHEET NO. 45

HIGHWAY GUARD DETAILS NONE
TRAFFIC SIGNAL CONDUIT SEE SHEET NO. 182
WATER SUPPLY ALTERATIONS SEE SHEET NO. 121
DRAINAGE DETAILS SEE SHEET NO. 121

**NEEDHAM / NEWTON
HIGHLAND AVENUE / NEEDHAM STREET**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQHS/ITAP/STP-0036(009)	43	412
PROJECT FILE NO.		606635	

**CONSTRUCTION PLANS
PART 6 OF 18**



FOR PROFILE SEE SHEET NO. 61_62_76

REV. NO	DESCRIPTION	DATE

CONTINUED ON SHEET NO. 42

CONTINUED ON SHEET NO. 44

606635_HD(CONST) PLANS (1-18).DWG
Plotted on 4-Jun-2020 5:14 PM

NEEDHAM / NEWTON
HIGHLAND AVENUE / NEEDHAM STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQHS/ITAP/STP-0036(009)	44	412
PROJECT FILE NO.		606635	

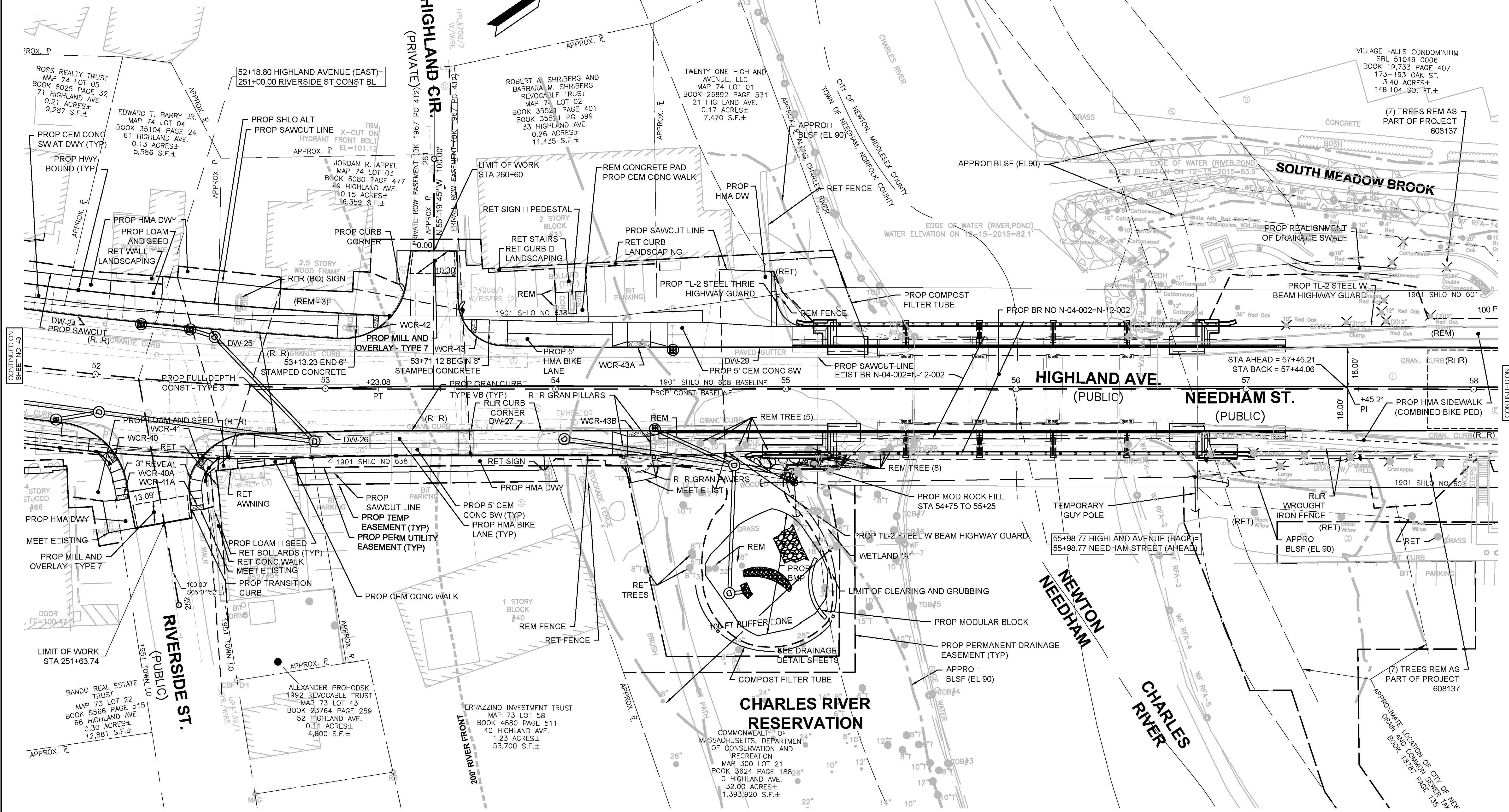
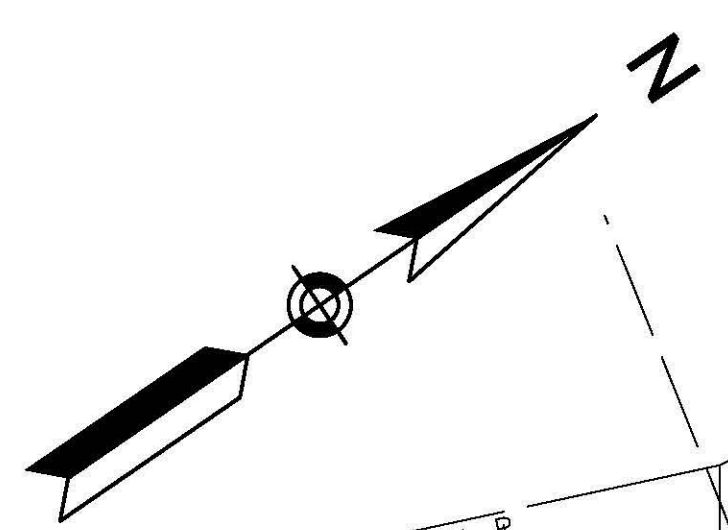
CONSTRUCTION PLANS
PART 7 OF 18

HIGHWAY GUARD DETAILS
 STA 54+96 LT - THREE BEAM TERMINAL SECTION
 STA 54+96 TO 55+09 LT - TRANS TO BRIDGE RAIL
 STA 54+46 TO 54+55 RT - TRAILING ANCHORAGE
 STA 54+55 TO 54+89 RT - TRANS TO BRIDGE RAIL
 STA 56+89 TO 57+23 LT - TRANS TO BRIDGE RAIL
 STA 57+23 TO 58+91 LT
 STA 58+91 TO 59+14 LT - FLARED END
 STA 56+97 TO 57+31 RT - TRANS TO BRIDGE RAIL
 STA 57+31 TO 57+90 RT
 STA 57+90 TO 57+99 RT - TRAILING ANCHORAGE

TRAFFIC SIGNAL CONDUIT
NONE

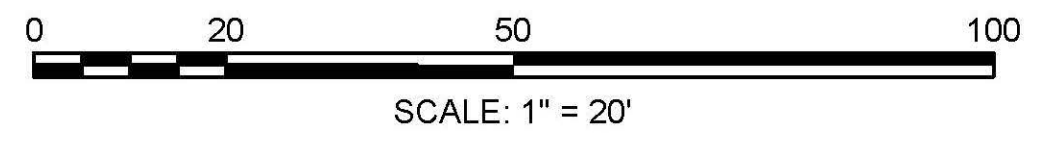
WATER SUPPLY ALTERATIONS
SEE SHEET NO. 122

DRAINAGE DETAILS
SEE SHEET NO. 122



CONTINUED ON SHEET NO. 43

CONTINUED ON SHEET NO. 45



FOR PROFILE SEE SHEET NOS. 62_63_76

REV. NO	DESCRIPTION	DATE

606635_HD(CONST) PLANS (1-8).DWG
Plotted on 4-Jun-2020 5:06 PM

HIGHWAY GUARD DETAILS
 STA 58+08 TO 58+17_RT - TRAILING ANCHORAGE
 STA 58+17 TO 58+61_RT - DEEP POST
 STA 58+61 TO 58+70_RT - TRAILING ANCHORAGE
 STA 60+03_LT - TIE TO E. LISTING
 STA 60+03 TO 62+28_LT
 STA 62+28 TO 62+53_LT - FLARED END

TRAFFIC SIGNAL CONDUIT
 NONE

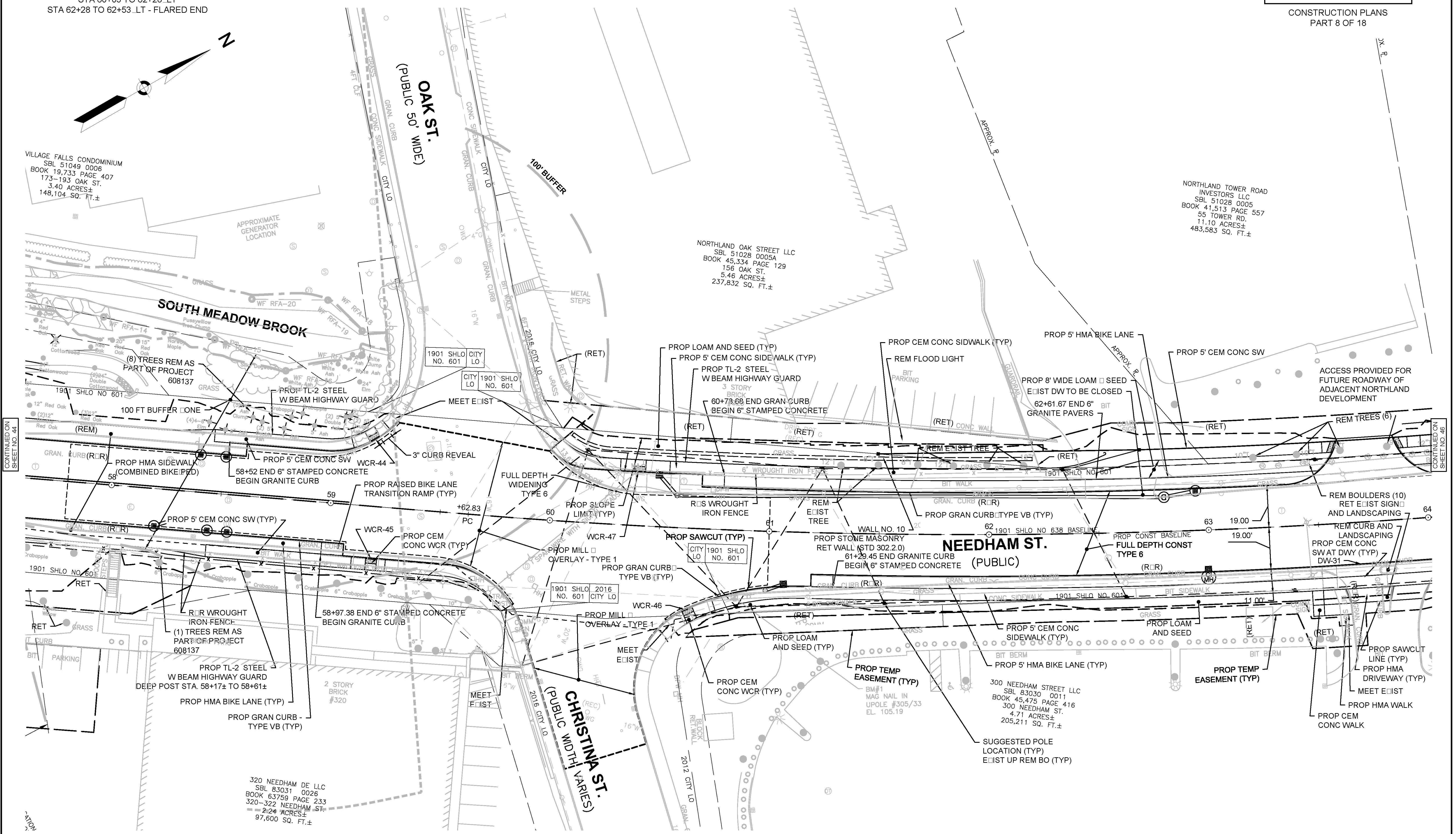
WATER SUPPLY ALTERATIONS
 SEE SHEET NO. 123

DRAINAGE DETAILS
 SEE SHEET NO. 123

NEEDHAM / NEWTON
 HIGHLAND AVENUE / NEEDHAM STREET

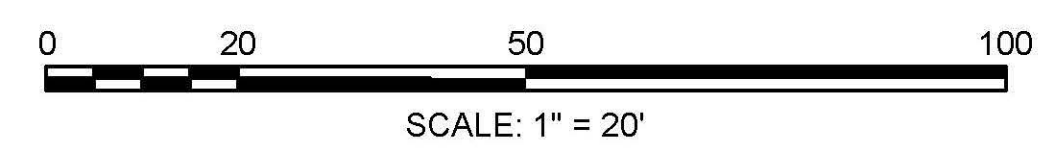
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MA	CMQ/HSUTAP/STP-0036(009)	45	412
PROJECT FILE NO.		606635	

CONSTRUCTION PLANS
 PART 8 OF 18



CONTINUED ON SHEET NO. 44

CONTINUED ON SHEET NO. 46



FOR PROFILE SEE SHEET NO. 63 - 64

REV. NO	DESCRIPTION	DATE

606635_HD(CONST PLANS 1-8).DWG Plotted on 3-Jun-2020 5:30 PM

HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
SEE SHEET NO. 194

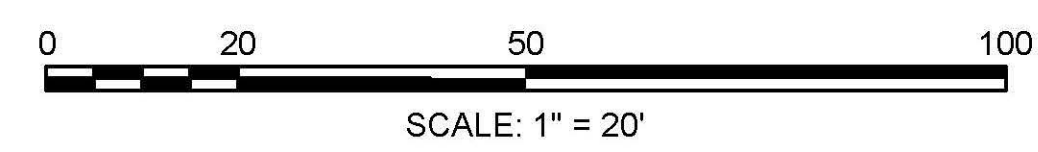
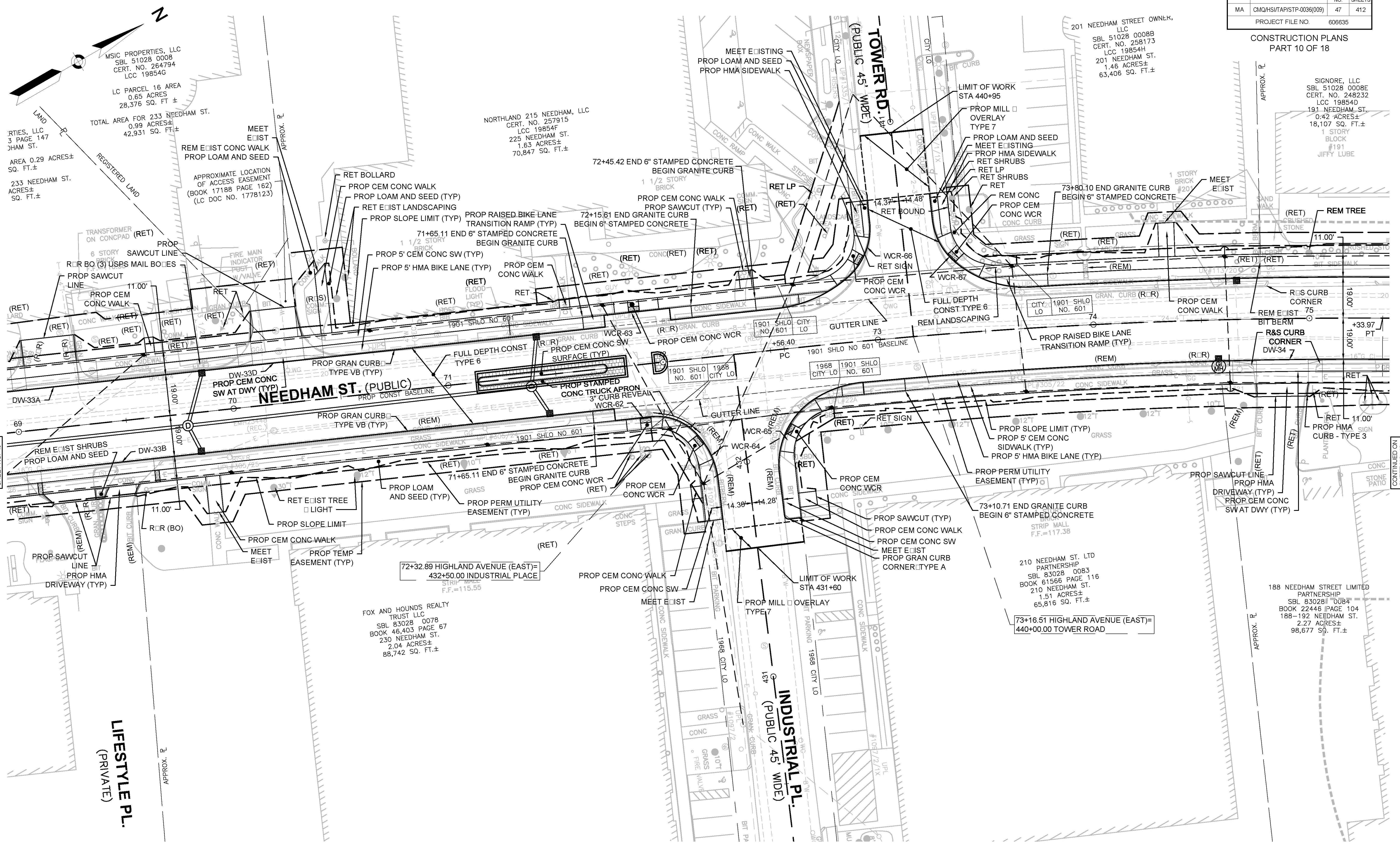
WATER SUPPLY ALTERATIONS
SEE SHEET NO. 125

DRAINAGE DETAILS
SEE SHEET NO. 125

NEEDHAM / NEWTON
HIGHLAND AVENUE / NEEDHAM STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQHS/ITAP/STP-0036(009)	47	412
PROJECT FILE NO. 606635			

CONSTRUCTION PLANS
PART 10 OF 18



FOR PROFILE SEE SHEET NO. 64_65 - 79

REV. NO	DESCRIPTION	DATE

CONTINUED ON SHEET NO. 46

CONTINUED ON SHEET NO. 48

606635_HDCONSTR PLANS 9-18).DWG
Plotted on 3-Jun-2020 5:05 PM

HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
SEE SHEET NO. 186 - 194

WATER SUPPLY ALTERATIONS
SEE SHEET NO. 127

DRAINAGE DETAILS
SEE SHEET NO. 127

NEEDHAM / NEWTON
HIGHLAND AVENUE / NEEDHAM STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ/HS/TA/STP-0036(009)	49	412
PROJECT FILE NO.		606635	

CONSTRUCTION PLANS
PART 12 OF 18

WELLFORD CORPORATION
SBL 51028 0013
BOOK 16787 PAGE 60
191 NEEDHAM ST.
1.29 ACRES±
56,192 SQ. FT.±

WELLFORD CORPORATION
SBL 51028 0014
BOOK 16787 PAGE 60
141 NEEDHAM ST.
1.23 ACRES±
53,579 SQ. FT.±

WELLFORD CORPORATION
SBL 51028 0015
BOOK 16787 PAGE 60
131 NEEDHAM ST.
0.33 ACRES±
14,375 SQ. FT.±

MCDONALDS REAL ESTATE CO.
SBL 51028 0016
BOOK 58332 PAGE 328
111 NEEDHAM ST.
0.93 ACRES±
40,334 SQ. FT.±

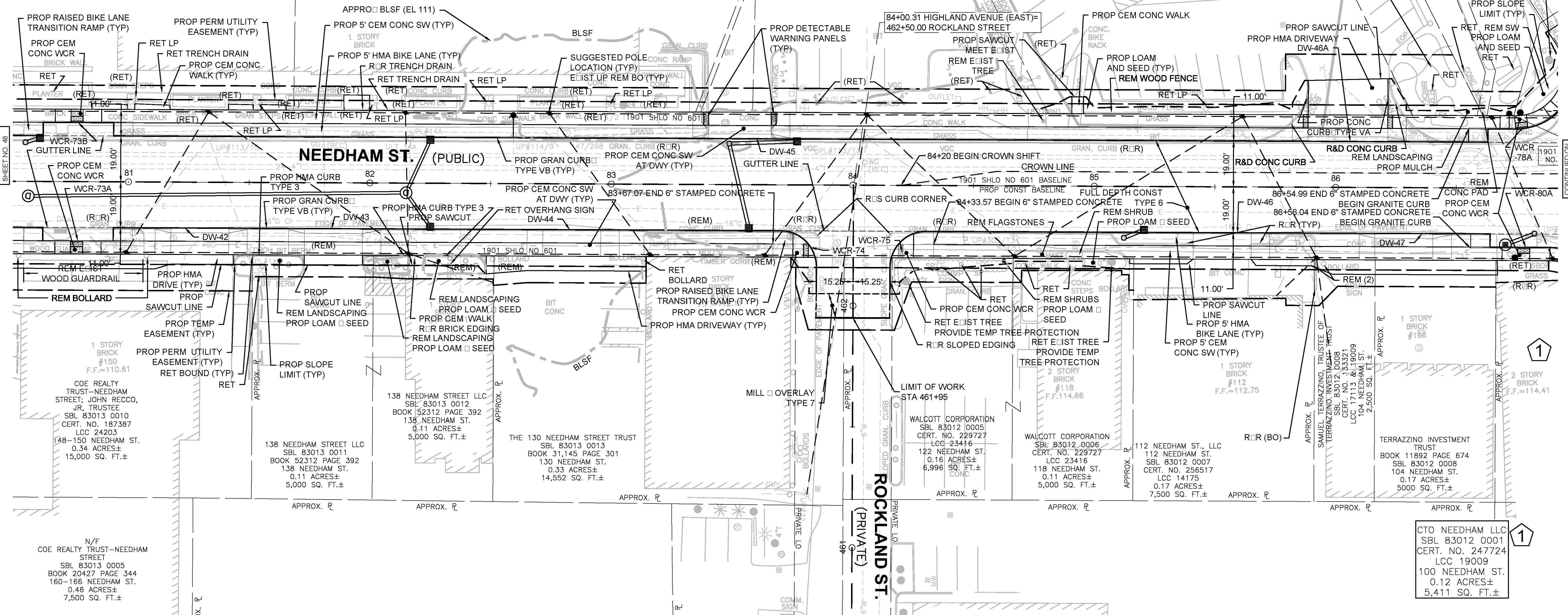
APPROXIMATE LOCATION OF
EASEMENT AGREEMENT
(BOOK 13527 PAGE 38)

APPROXIMATE LOCATION OF
VERIZON EASEMENT
(BOOK 38619 PAGE 277)

1 STORY
BRICK
MACDONALD'S
F.F.=113.71

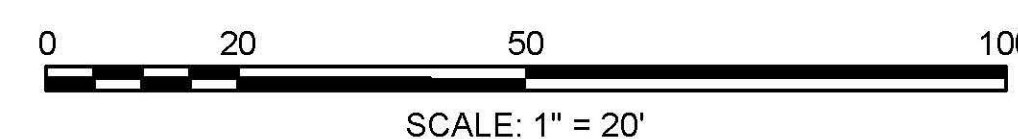
RET SIGN AND LANDSCAPING

RET EXIST TREE
PROVIDE TEMP TREE
PROTECTION
PROP SLOPE
LIMIT (TYP)



CONTINUED ON
SHEET NO. 48

CONTINUED ON
SHEET NO. 50



FOR PROFILE SEE SHEET NO. 66_67_77

REV. NO	DESCRIPTION	DATE

606635_HDCONSTR PLANS 9-18).DWG Potted on 3-Jun-2020 4:40 PM

HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
SEE SHEET NO. 186 - 194

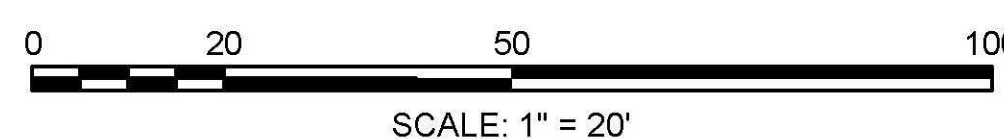
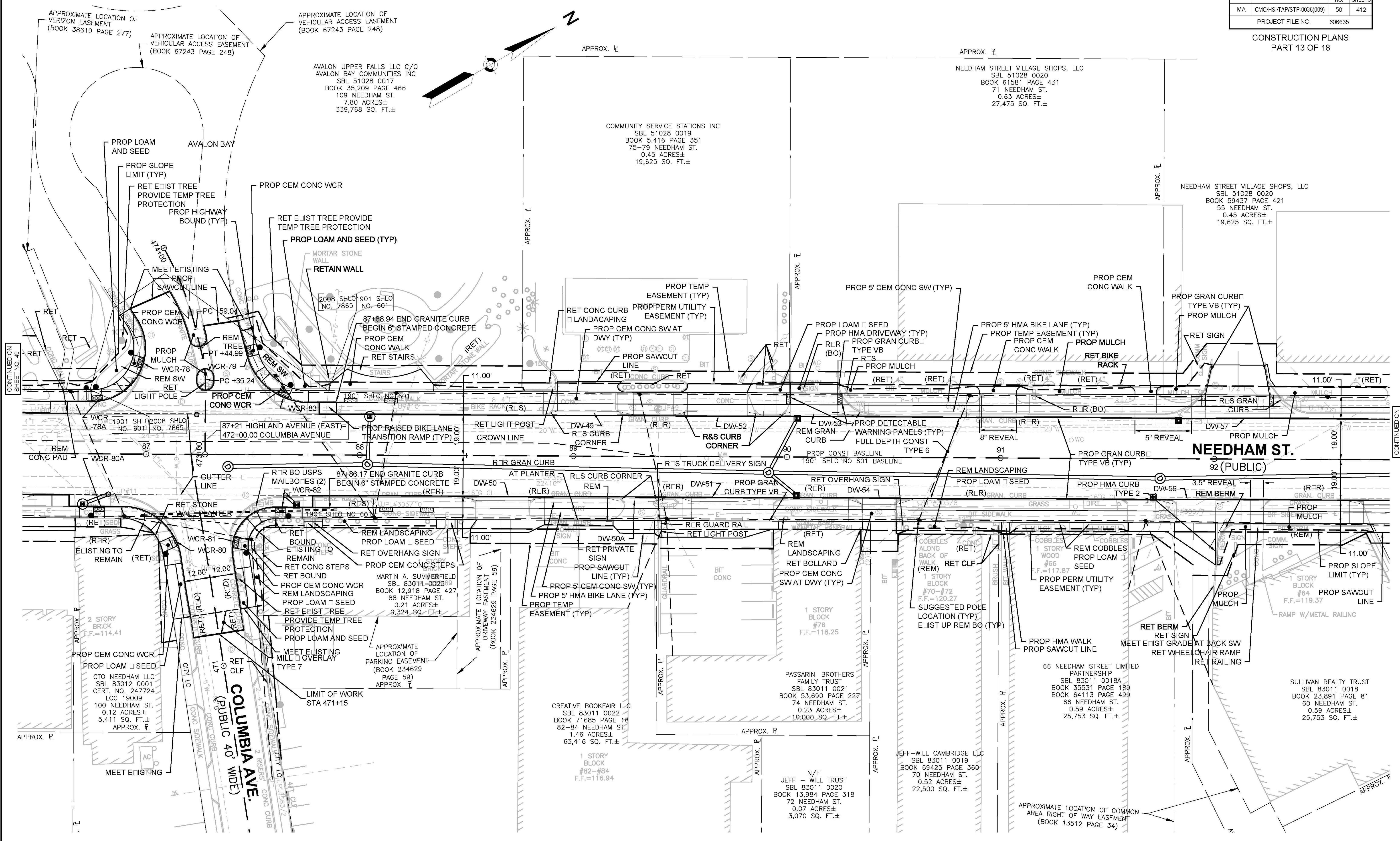
WATER SUPPLY ALTERATIONS
SEE SHEET NO. 128

DRAINAGE DETAILS
SEE SHEET NO. 128

NEEDHAM / NEWTON
HIGHLAND AVENUE / NEEDHAM STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ/HS/TA/STP-0036(009)	50	412
PROJECT FILE NO.		606635	

CONSTRUCTION PLANS
PART 13 OF 18



FOR PROFILE SEE SHEET NO. 67_68_77

REV. NO	DESCRIPTION	DATE

HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
SEE SHEET NO. 188 - 195

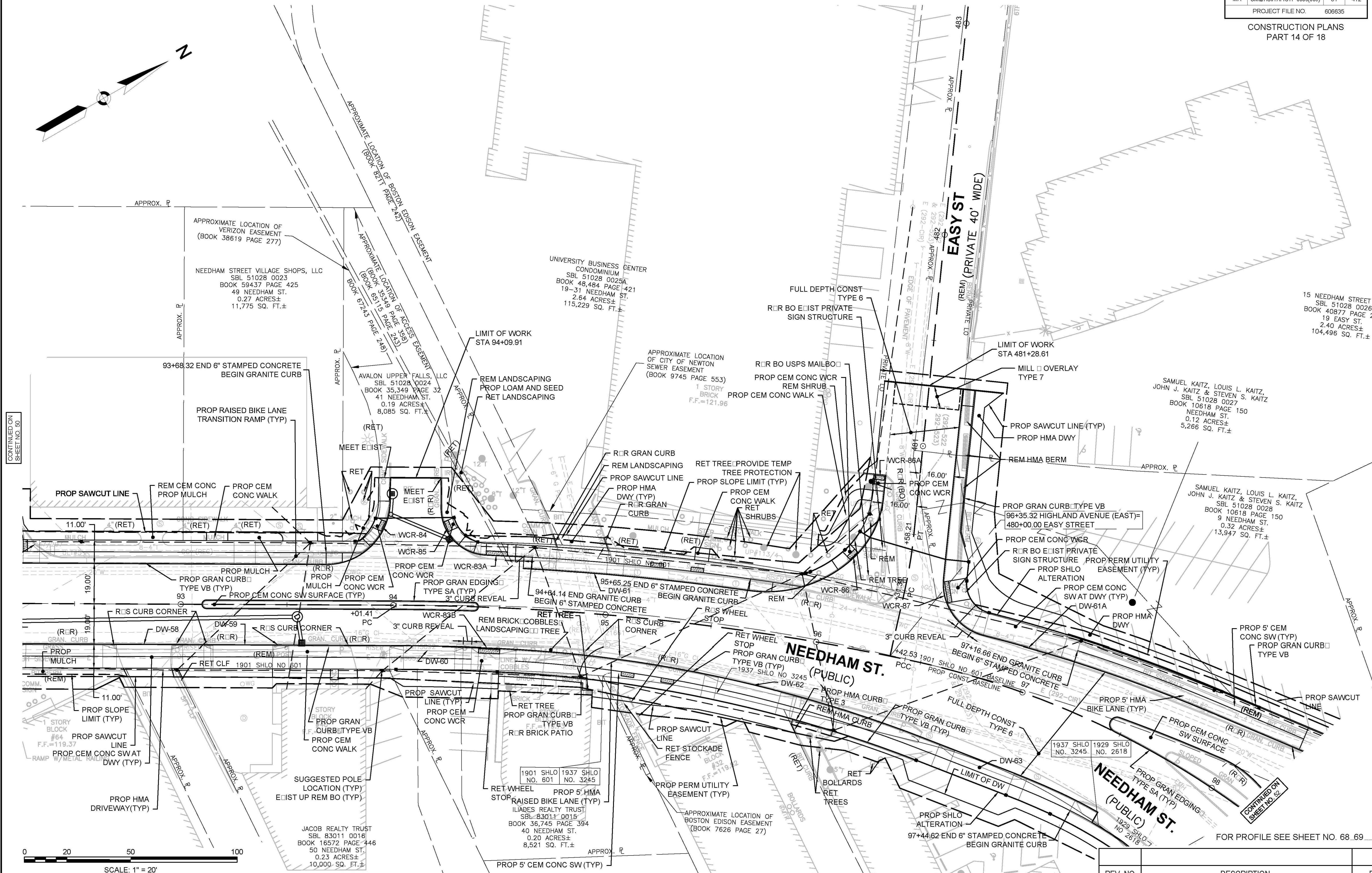
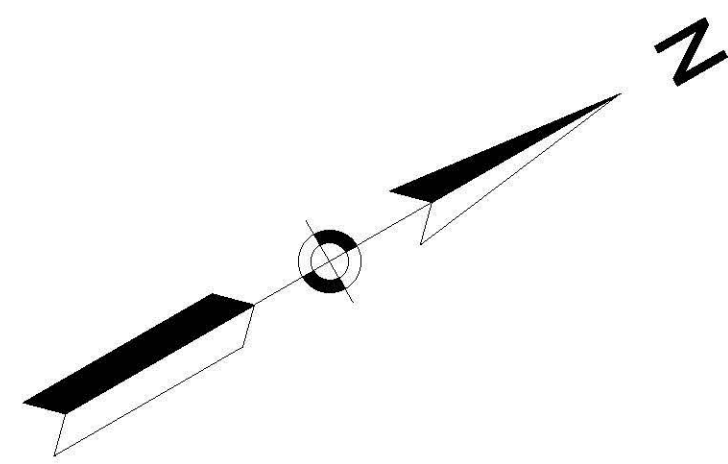
WATER SUPPLY ALTERATIONS
SEE SHEET NO. 129

DRAINAGE DETAILS
SEE SHEET NO. 129

NEEDHAM / NEWTON
HIGHLAND AVENUE / NEEDHAM STREET

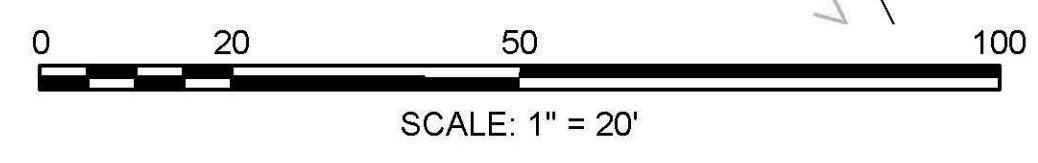
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQHS/ITAP/STP-0036(009)	51	412
PROJECT FILE NO.		606635	

CONSTRUCTION PLANS
PART 14 OF 18



CONTINUED ON SHEET NO. 50

CONTINUED ON SHEET NO. 52



JACOB REALTY TRUST
SBL 83011 0018
BOOK 16572 PAGE 446
50 NEEDHAM ST.
0.23 ACRES±
10,000 SQ. FT.±

1901 SHLO NO. 601 1937 SHLO NO. 3245
ILADES REALTY TRUST
SBL 83011 0015
BOOK 36,745 PAGE 394
40 NEEDHAM ST.
0.20 ACRES±
8,521 SQ. FT.±

SAMUEL KAITZ, LOUIS L. KAITZ,
JOHN J. KAITZ & STEVEN S. KAITZ
SBL 51028 0027
BOOK 10618 PAGE 150
NEEDHAM ST.
0.12 ACRES±
5,266 SQ. FT.±

15 NEEDHAM STREET LLC
SBL 51028 0026
BOOK 40877 PAGE 236
19 EASY ST.
2.40 ACRES±
104,496 SQ. FT.±

FOR PROFILE SEE SHEET NO. 68 .69 - 77

REV. NO	DESCRIPTION	DATE

HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
SEE SHEET NO. 188 - 195

WATER SUPPLY ALTERATIONS
SEE SHEET NO. 130

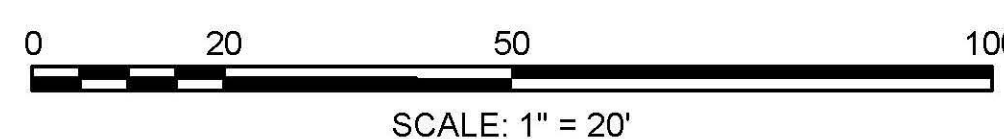
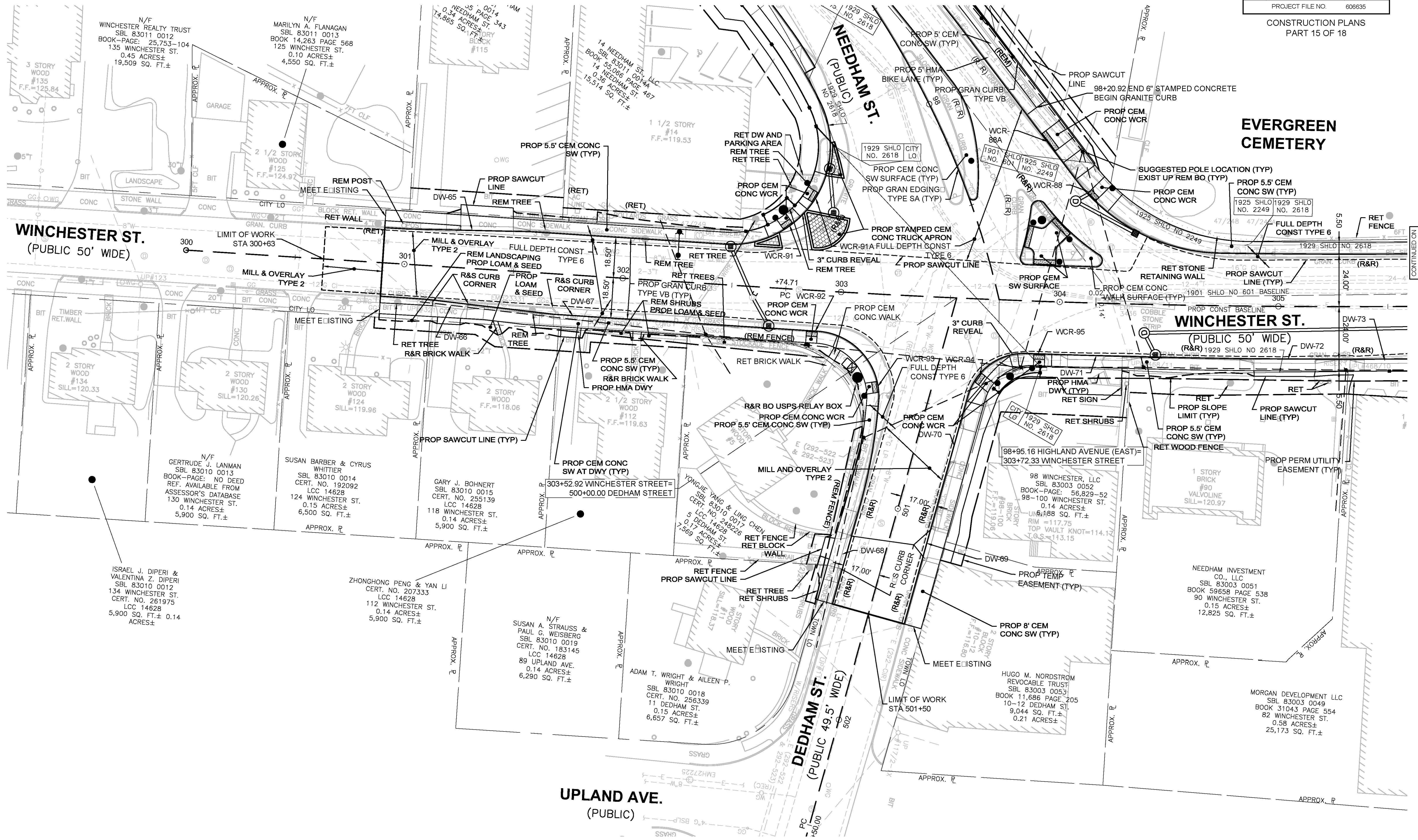
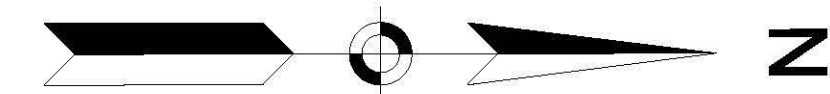
DRAINAGE DETAILS
SEE DETAIL SHEET 130

CONTINUED ON
SHEET NO. 51

NEEDHAM / NEWTON
HIGHLAND AVENUE / NEEDHAM STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQHS/ITAP/STP-0036(009)	52	412
PROJECT FILE NO.		606635	

CONSTRUCTION PLANS
PART 15 OF 18



FOR PROFILE SEE SHEET NO. 70-71 - 77

REV. NO	DESCRIPTION	DATE

606635_HDCONST PLANS 9-18) DWG Potted on 8-Jun-2020 11:02 AM

HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
SEE SHEET NO. 188 - 195

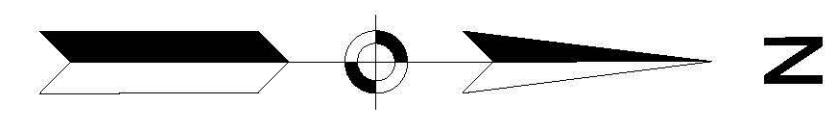
WATER SUPPLY ALTERATIONS
SEE SHEET NO. 131

DRAINAGE DETAILS
SEE SHEET NO. 131

NEEDHAM / NEWTON
HIGHLAND AVENUE / NEEDHAM STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ/HS/ITAP/STP-0036(009)	53	412
PROJECT FILE NO.		606635	

CONSTRUCTION PLANS
PART 16 OF 18



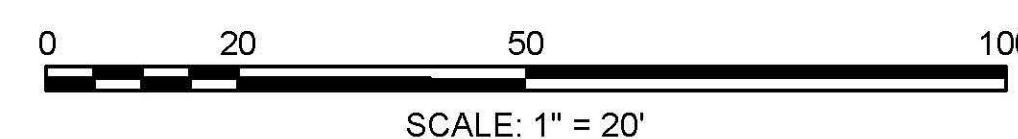
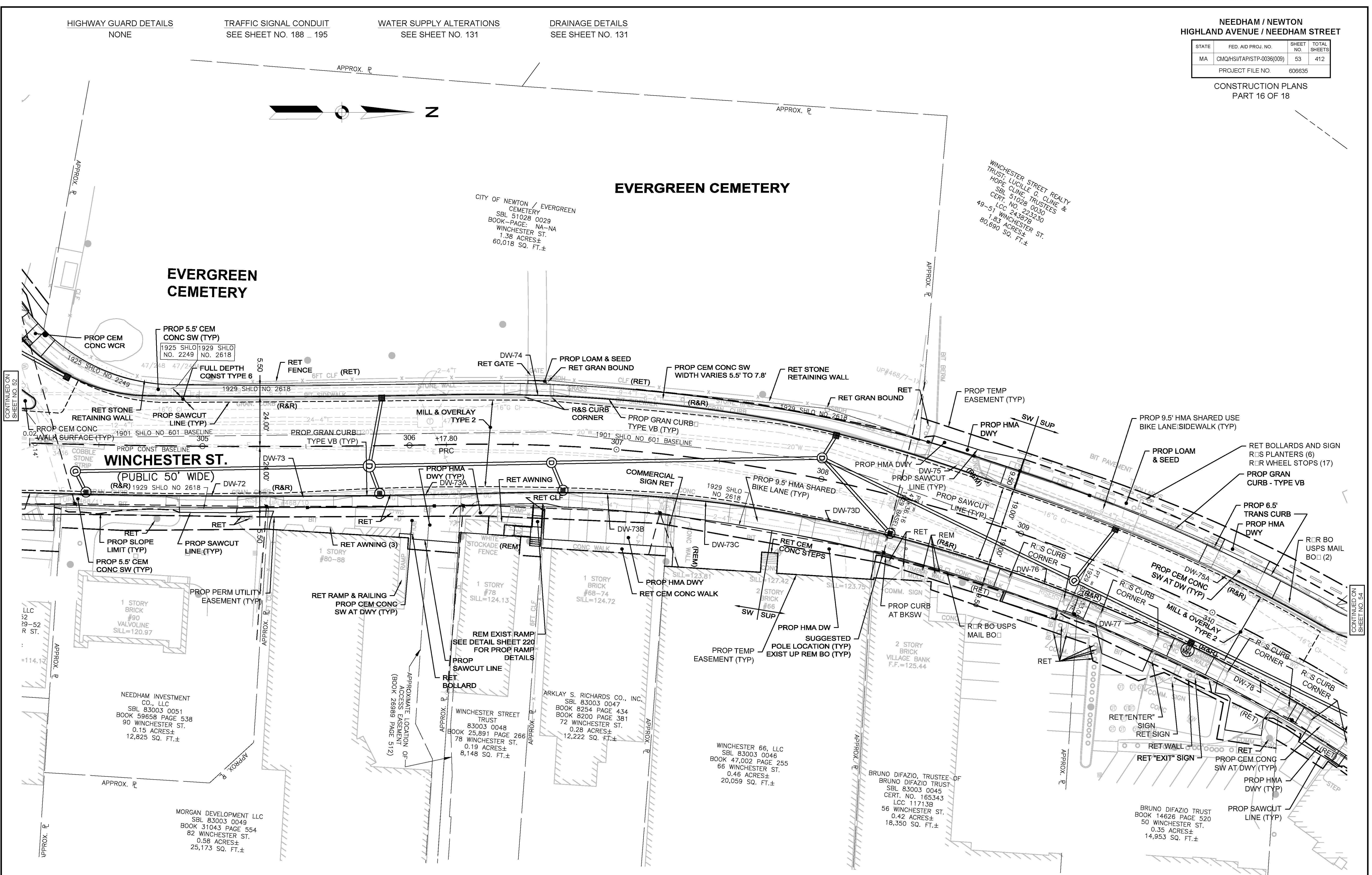
EVERGREEN CEMETERY

CITY OF NEWTON / EVERGREEN
CEMETERY
SBL 51028 0029
BOOK - PAGE: NA-NA
WINCHESTER ST.
1.38 ACRES±
60,018 SQ. FT.±

WINCHESTER STREET REALTY
TRUST; LUCILLE G. CLINE &
HOPE CLINE TRUSTEES
SBL 51028 0030
CERT. NO. 223230
LCC 243879
49-51 WINCHESTER ST.
1.83 ACRES±
80,690 SQ. FT.±

EVERGREEN
CEMETERY

WINCHESTER ST.
(PUBLIC 50' WIDE)



FOR PROFILE SEE SHEET NO. 71 - 72

REV. NO	DESCRIPTION	DATE

CONTINUED ON
SHEET NO. 52

CONTINUED ON
SHEET NO. 54

606635_HDCONSTR PLANS 9-18.DWG
Plotted on: 8-Jun-2020 11:05 AM

HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
SEE SHEET NO. 190 - 195

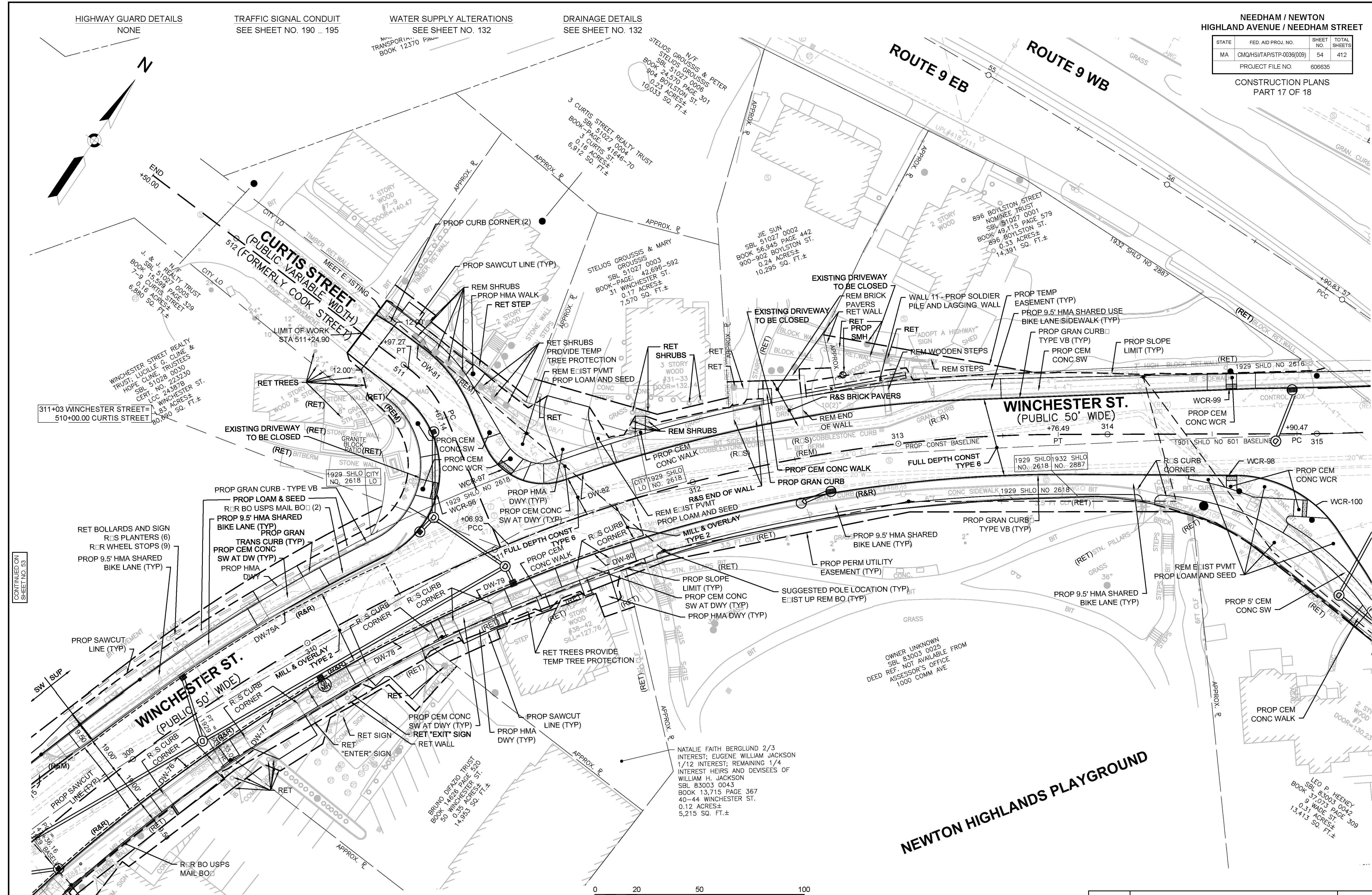
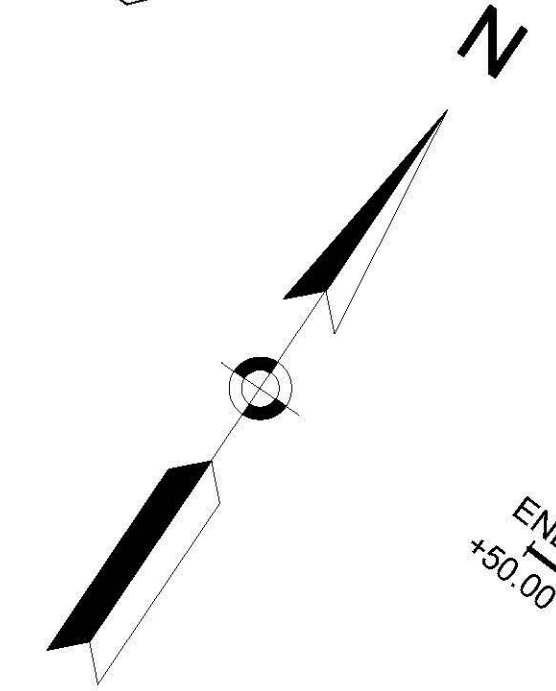
WATER SUPPLY ALTERATIONS
SEE SHEET NO. 132

DRAINAGE DETAILS
SEE SHEET NO. 132

NEEDHAM / NEWTON
HIGHLAND AVENUE / NEEDHAM STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ/HS/ITAP/STP-0036(009)	54	412
PROJECT FILE NO.		606635	

CONSTRUCTION PLANS
PART 17 OF 18



CONTINUED ON
SHEET NO. 53

CONTINUED ON
SHEET NO. 55

SCALE: 1" = 20'

FOR PROFILE SEE SHEET NO. 72.73-77

REV. NO	DESCRIPTION	DATE

HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
SEE SHEET NO. 190 - 195

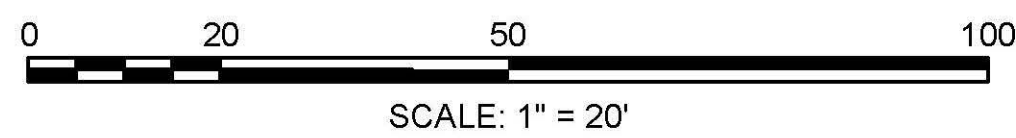
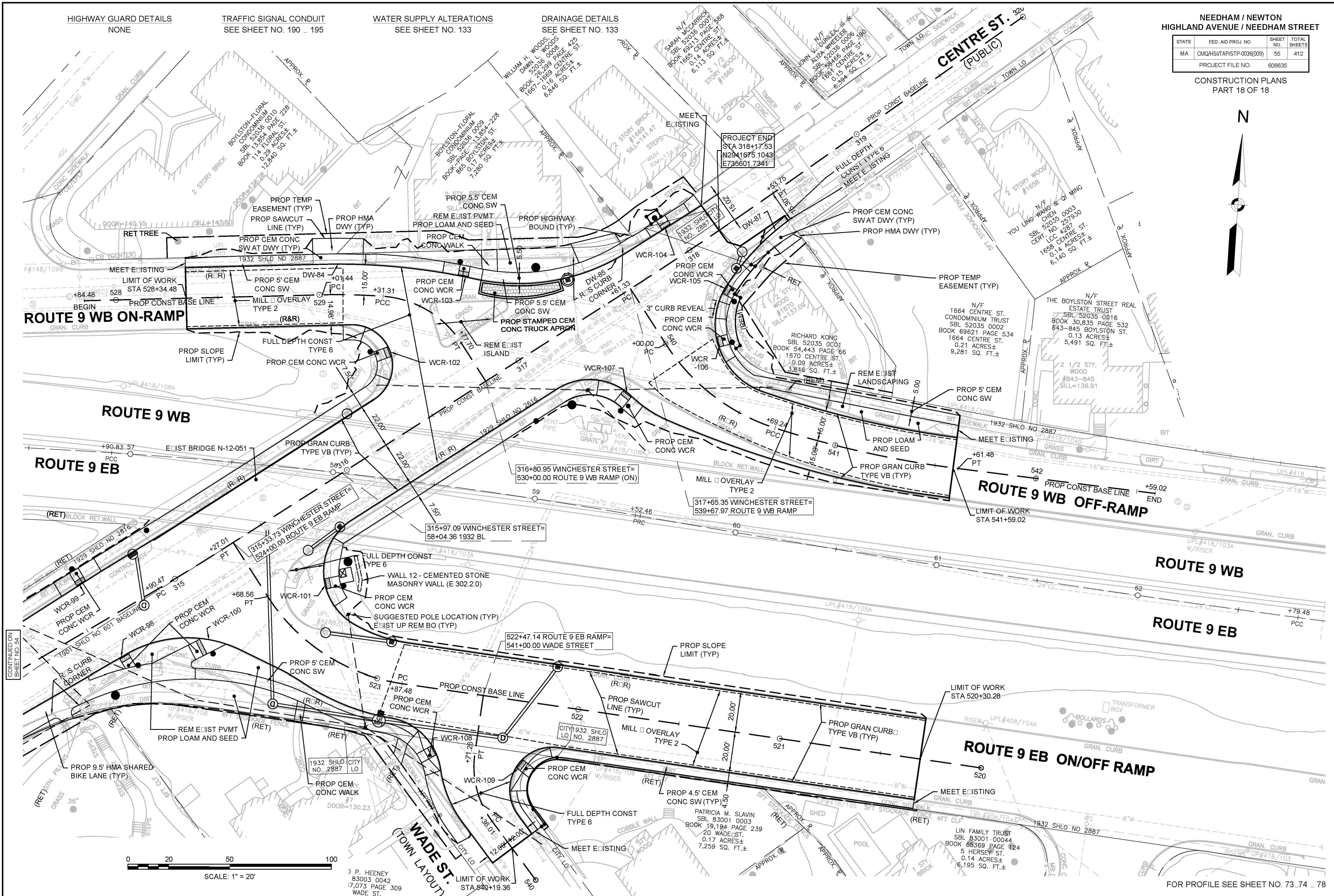
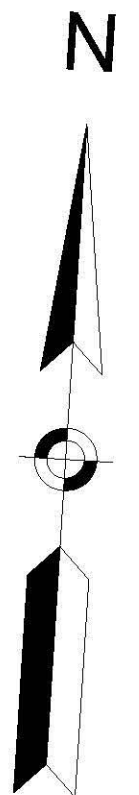
WATER SUPPLY ALTERATIONS
SEE SHEET NO. 133

DRAINAGE DETAILS
SEE SHEET NO. 133

NEEDHAM / NEWTON
HIGHLAND AVENUE / NEEDHAM STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQHS/ITAP/STP-0036(009)	55	412
PROJECT FILE NO.		606635	

CONSTRUCTION PLANS
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FOR PROFILE SEE SHEET NO. 73_74 - 78