

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION

PLAN AND PROFILE OF
REHABILITATION OF ROUTE 5
IN THE CITY AND TOWN OF
HOLYOKE AND WEST SPRINGFIELD
HAMPDEN COUNTY

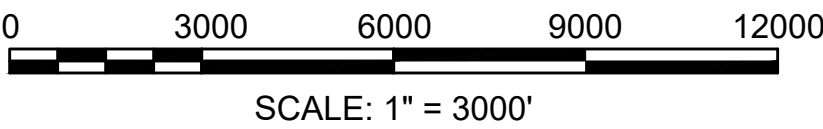
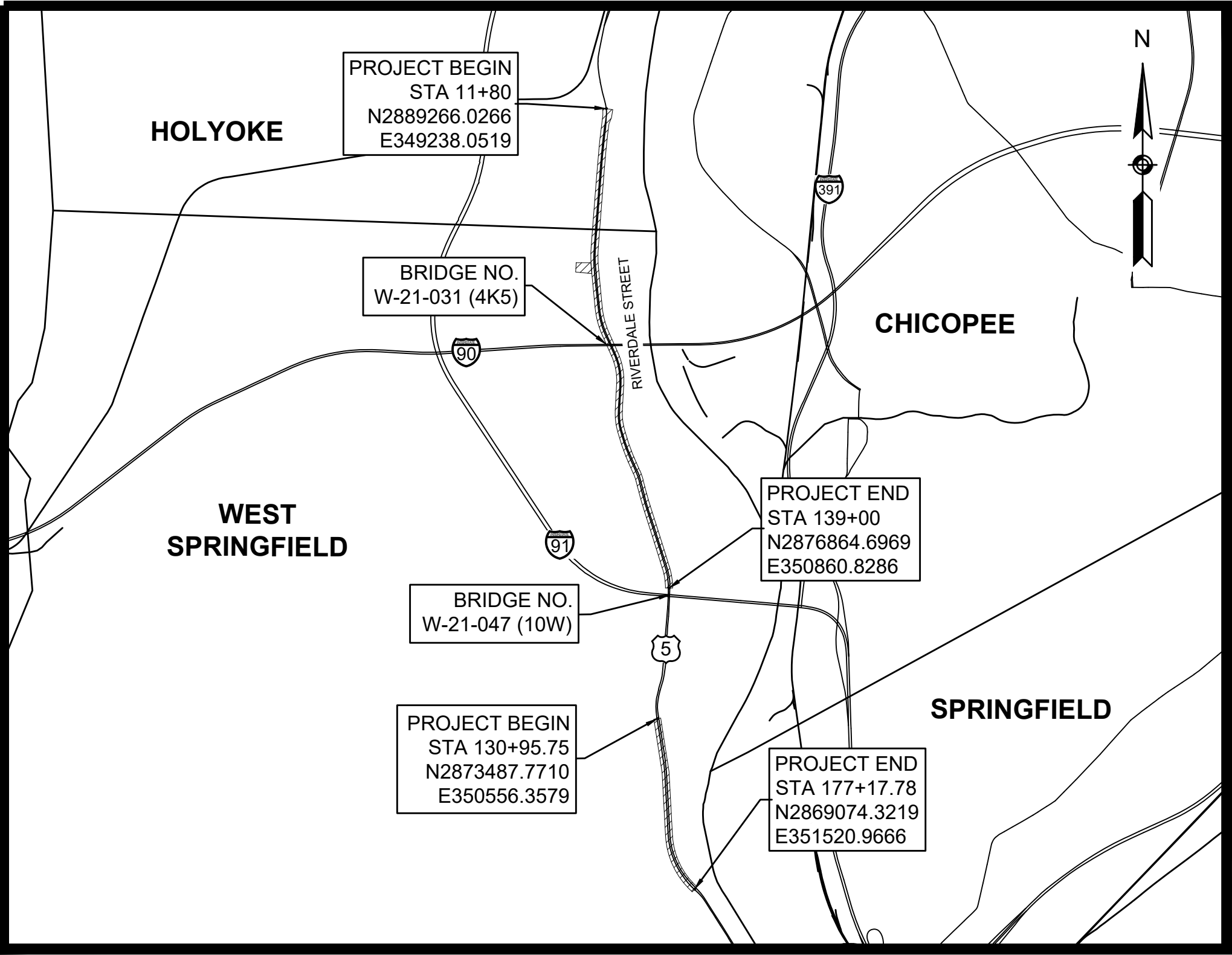
FEDERAL AID PROJECT NO.

THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 1988, AS AMENDED, THE SUPPLEMENTAL SPECIFICATIONS DATED APRIL 1, 2019, THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS WITH MASSACHUSETTS AMENDMENTS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, WILL GOVERN.

25% SUBMITTAL

INDEX	
SHEET NO.	DESCRIPTION
1	TITLE
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145	DRIVEWAY DETAILS
146-147	CRITICAL CROSS SECTIONS

Note some detail sheets
have been deleted to
reduce the overall file size.



LENGTH OF PROJECT = 12,719.52 FEET = 2.409 MILES (NORTH OF I-91)
LENGTH OF PROJECT = 4,620.00 FEET = 0.875 MILES (SOUTH OF I-91)

DESIGN DESIGNATION
(ROUTE 5 S OF HIGHLAND AVE)

DESIGN SPEED
ADT (2019)
ADT (2029)
K
D
T (PEAK HOUR)
T (AVERAGE DAY)
DHV
DDHV
FUNCTIONAL CLASSIFICATION

DESIGN DESIGNATION
(ROUTE 5 N OF EAST ELM ST)

DESIGN SPEED
ADT (2019)
ADT (2029)
K
D
T (PEAK HOUR)
T (AVERAGE DAY)
DHV
DDHV
FUNCTIONAL CLASSIFICATION

HNTB








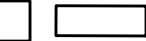
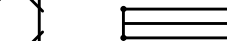

















































DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED:
DIVISION ADMINISTRATOR

















GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		JERSEY BARRIER
		CATCH BASIN
		CATCH BASIN CURB INLET
		FLAG POLE
		GAS PUMP
		MAIL BOX
		POST SQUARE
		POST CIRCULAR
		WELL
		ELECTRIC HANDHOLE
		FENCE GATE POST
		GAS GATE
		BORING HOLE
		MONITORING WELL
		TEST PIT
		HYDRANT
		LIGHT POLE
		COUNTY BOUND
		GPS POINT
		CABLE MANHOLE
		DRAINAGE MANHOLE
		ELECTRIC MANHOLE
		GAS MANHOLE
		MISC MANHOLE
		SEWER MANHOLE
		TELEPHONE MANHOLE
		WATER MANHOLE
		MASSACHUSETTS HIGHWAY BOUND
		MONUMENT
		STONE BOUND
		TOWN OR CITY BOUND
		TRAVERSE OR TRIANGULATION STATION
		TROLLEY POLE OR GUY POLE
		TRANSMISSION POLE
		UTILITY POLE W/ FIREBOX
		UTILITY POLE WITH DOUBLE LIGHT
		UTILITY POLE W / 1 LIGHT
		UTILITY POLE
		BUSH
		TREE
		STUMP
		SWAMP / MARSH
		WATER GATE
		PARKING METER
		OVERHEAD CABLE/WIRE
		CURBING
		CONTOURS (ON-THE-GROUND SURVEY DATA)
		CONTOURS (PHOTOGRAMMETRIC DATA)
		UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)
		BALANCED STONE WALL
		GUARD RAIL - STEEL POSTS
		GUARD RAIL - WOOD POSTS
		CHAIN LINK OR METAL FENCE
		WOOD FENCE
		HAY BALES/SILT FENCE
		TREE LINE
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		EDGE OF PAVEMENT
		LIMIT OF MICROMILLING AND OVERLAY
		BANK OF RIVER OR STREAM
		BORDER OF WETLAND
		100 FT WETLAND BUFFER
		200 FT RIVERFRONT BUFFER
		STATE HIGHWAY LAYOUT
		TOWN OR CITY LAYOUT
		COUNTY LAYOUT
		RAILROAD SIDELINE
		TOWN OR CITY BOUNDARY LINE
		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
		EASEMENT
		DETECTABLE WARNING PANEL
		SCORED CONCRETE
		CULVERT

TRAFFIC SYMBOLS

EXISTING (REM)	EXISTING (RET)	PROPOSED	DESCRIPTION
			CONTROLLER PHASE ACTUATED
			TRAFFIC SIGNAL HEAD (SIZE AS NOTED)
			WIRE LOOP DETECTOR
			VIDEO DETECTION ZONE
			VIDEO DETECTION CAMERA
			PEDESTRIAN PUSH BUTTON, SIGN, AND SADDLE
			EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT
			VEHICULAR SIGNAL HEAD
			PEDESTRIAN SIGNAL HEAD
			SIGNAL POST AND BASE
			MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)
			SPAN POLE
			SIGN AND POST
			SIGN AND POST (2 POSTS)
			OPTICAL PRE-EMPTION DETECTOR
			CONTROL CABINET, GROUND MOUNTED
			PULL BOX 12"x12" (OR AS NOTED)
			ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)
			TRAFFIC SIGNAL CONDUIT
			WIRELESS BROADBAND ANTENNA

PAVEMENT MARKINGS SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
	 SL	12" STOP LINE
	 CW	CROSSWALK
	 SWL	6" SOLID WHITE LINE
	 SYL	6" SOLID YELLOW LINE
	 BWL	6" BROKEN WHITE LINE (10' MARK, 30' SKIP)
	 DWL	6" DOTTED WHITE LINE (3' MARK, 9' SKIP)
	 DWLEx	6" DOTTED WHITE LINE EXTENSION (2' MARK, 6' SKIP)
	 DBYL	6" DOUBLE YELLOW LINE

ABBREVIATIONS

GENERAL	
AADT	ANNUAL AVERAGE DAILY TRAFFIC
ABAN	ABANDON
ADJ	ADJUST
APPROX.	APPROXIMATE
A.C.	ASPHALT CONCRETE
ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE
BIT.	BITUMINOUS
BC	BOTTOM OF CURB
BD.	BOUND
BL or B	BASELINE
BLDG	BUILDING
BM	BENCHMARK
BO	BY OTHERS
BOS	BOTTOM OF SLOPE
BR.	BRIDGE
CB	CATCH BASIN
CBCI	CATCH BASIN WITH CURB INLET
CC	CEMENT CONCRETE
CCM	CEMENT CONCRETE MASONRY
CEM	CEMENT
CI	CURB INLET
CIP	CAST IRON PIPE
CLF	CHAIN LINK FENCE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CSP	CORRUGATED STEEL PIPE
CO.	COUNTY
CONC	CONCRETE
CONT	CONTINUOUS
CONST	CONSTRUCTION
CR GR	CROWN GRADE
DHV	DESIGN HOURLY VOLUME
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DW	STEADY DON'T WALK - PORTLAND ORANGE
DWY	DRIVEWAY
ELEV (or EL.)	ELEVATION
EC	EDGE OF CONCRETE
EMB	EMBANKMENT
EOP	EDGE OF PAVEMENT
ESAL	EQUIVALENT SINGLE AXLE LOAD
EXIST (or EX)	EXISTING
EXC	EXCAVATION
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
FDN.	FOUNDATION
FLDSTN	FIELDSTONE
GAR	GARAGE
GD	GROUND
GG	GAS GATE
GI	GUTTER INLET
GIP	GALVANIZED IRON PIPE
GRAN	GRANITE
GRAV	GRAVEL
GRD	GUARD
HDW	HEADWALL
HMA	HOT MIX ASPHALT
HOR	HORIZONTAL
HYD	HYDRANT
IC	INTERMEDIATE COURSE
INT	INTERMEDIATE
INV	INVERT
JCT	JUNCTION
L	LENGTH OF CURVE
LB	LEACH BASIN
LP	LIGHT POLE
LT	LEFT
MAX	MAXIMUM
MB	MAILBOX
MG	MAGNETIC
MH	MANHOLE
MHB	MASSACHUSETTS HIGHWAY BOUND
MIN	MINIMUM
N/F	NOW OR FORMERLY
NIC	NOT IN CONTRACT
NO.	NUMBER
OHW	OVERHEAD WIRE
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
P.G.L.	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
POC	POINT ON CURVE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVATURE
PROJ	PROJECT
PROP	PROPOSED

PAVEMENT NOTES

PROPOSED FULL DEPTH PAVEMENT - RIGID (SEE NOTE 3)

SURFACE COURSE: 9" HIGH EARLY STRENGTH TYPE III, 5000 PSI, 3/4", 705 CEMENT CONCRETE

SUBBASE COURSE: 8" GRAVEL BORROW (TYPE b) OR REUSE EXISTING GRAVEL BORROW AS DIRECTED BY ENGINEER

PROPOSED PAVEMENT MICROMILLING & OVERLAY

SURFACE COURSE: 1 1/2" HMA ASPHALT RUBBER GAP GRADED (HMA-SC-ARGG) OVER ASPHALT EMULSION FOR TACK COAT

INTERMEDIATE COURSE: 1 1/2" HMA ASPHALT RUBBER GAP GRADED (HMA-IC-ARGG) OVER ASPHALT EMULSION FOR TACK COAT

MILLING: 3" PAVEMENT MICROMILLING

PROPOSED FULL DEPTH PAVEMENT - FLEXIBLE

SURFACE COURSE: 1 1/2" HMA ASPHALT RUBBER GAP GRADED (HMA-SC-ARGG) OVER ASPHALT EMULSION FOR TACK COAT

INTERMEDIATE COURSE: 1 1/2" HMA ASPHALT RUBBER GAP GRADED (HMA-IC-ARGG) OVER ASPHALT EMULSION FOR TACK COAT

BASE: 4" SUPERPAVE BASE COURSE 37.5 (SBC-37.5) OVER

SUB-BASE: 4" DENSE GRADED CRUSHED STONE FOR SUB-BASE OVER 8" GRAVEL BORROW (TYPE b)

PROPOSED HMA PAVEMENT WIDENING - LESS THAN 4 FEET

SURFACE COURSE: 1 1/2" HMA ASPHALT RUBBER GAP GRADED (HMA-SC-ARGG) OVER ASPHALT EMULSION FOR TACK COAT

INTERMEDIATE COURSE: 1 1/2" HMA ASPHALT RUBBER GAP GRADED (HMA-IC-ARGG) OVER ASPHALT EMULSION FOR TACK COAT

BASE: 8" HIGH EARLY STRENGTH CEMENT CONCRETE

SUB-BASE: 8" GRAVEL BORROW (TYPE b)

PROPOSED HMA DRIVEWAY

SURFACE: 1 1/2" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER ASPHALT EMULSION FOR TACK COAT

INTERMEDIATE COURSE: 2" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5) OVER

FOUNDATION: 8" GRAVEL BORROW, TYPE b

PROPOSED CEMENT CONCRETE SIDEWALK

SURFACE: 4" CEMENT CONCRETE OVER

FOUNDATION: 8" GRAVEL BORROW, TYPE b

PROPOSED CEMENT CONCRETE SIDEWALK

SURFACE: 4" CEMENT CONCRETE

FOUNDATION: 8" GRAVEL BORROW, TYPE B

PROPOSED HMA SUP (SHARED USE PATH)

SURFACE: 4" SUPERPAVE SURFACE COURSE-19.0 (SSC-19.0)

INTERMEDIATE COURSE: 4" DENSE GRADED CRUSHED STONE

FOUNDATION: 8" GRAVEL BORROW, TYPE B

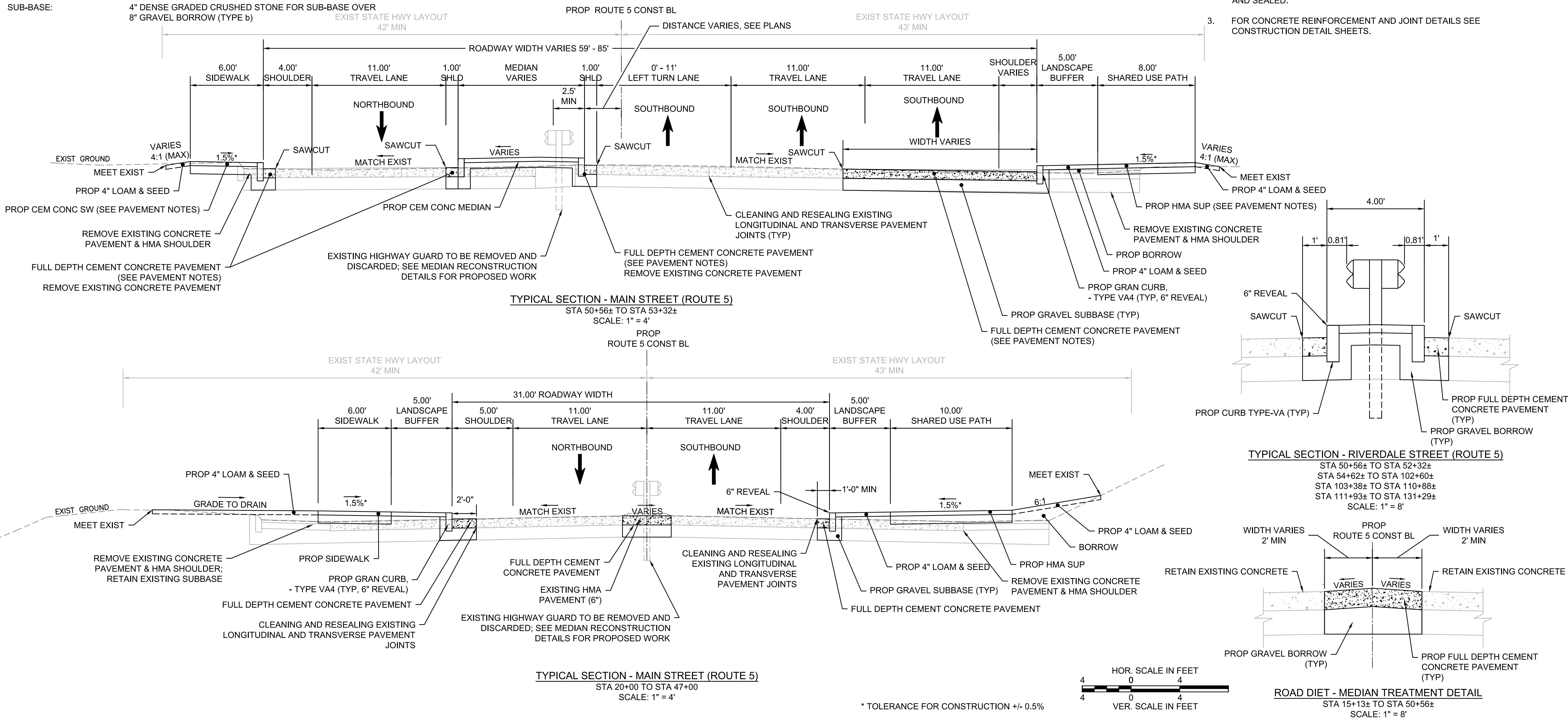
PROPOSED HMA SIDEWALK

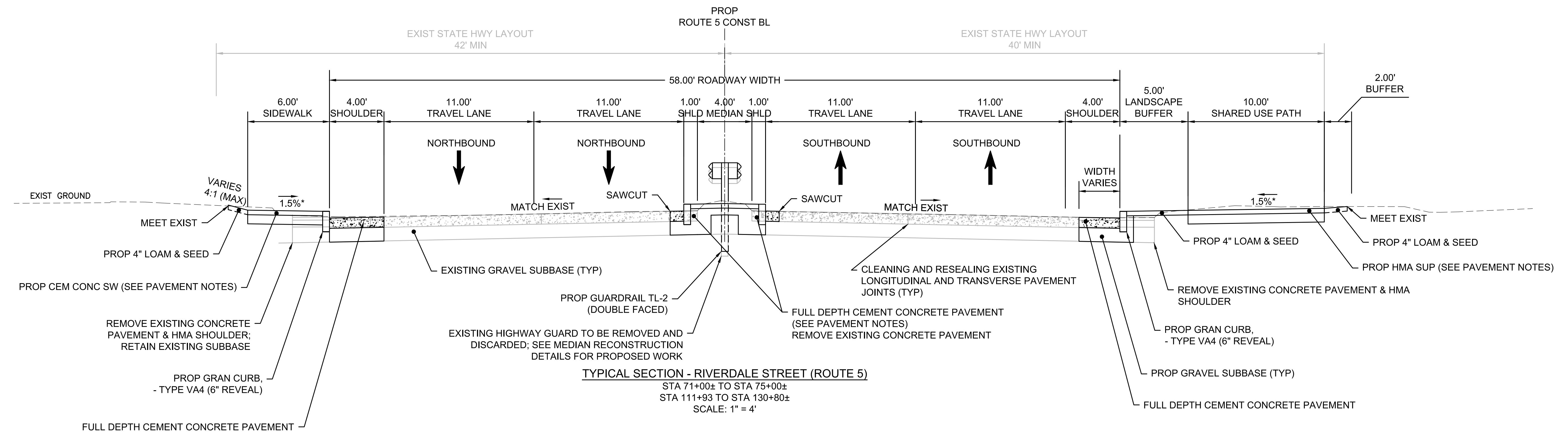
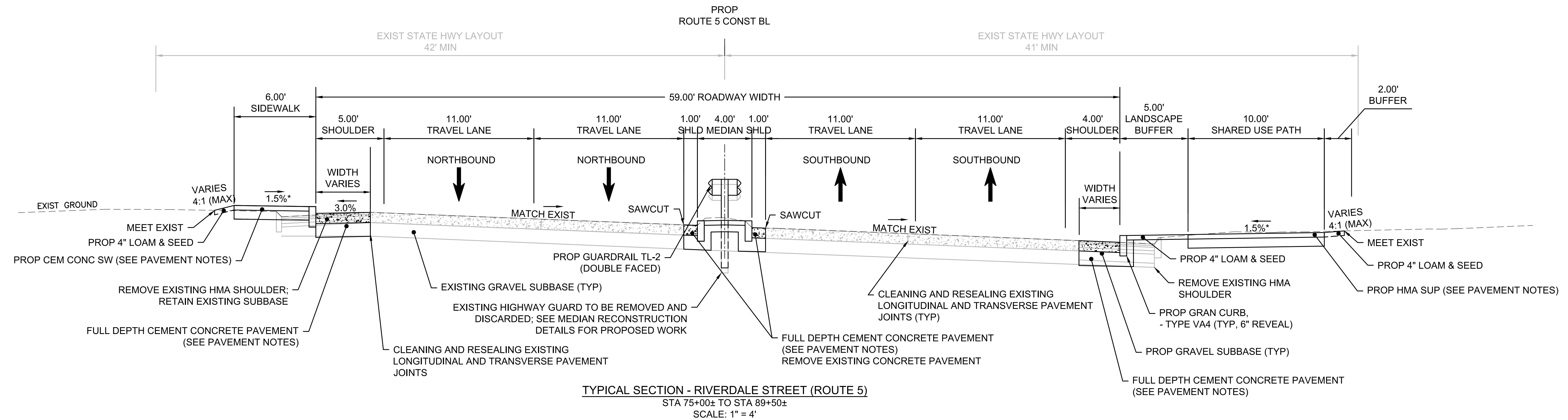
SURFACE: 4" SUPERPAVE SURFACE COURSE-19.0 (SSC-19.0)

FOUNDATION: 8" GRAVEL BORROW, TYPE B

NOTES

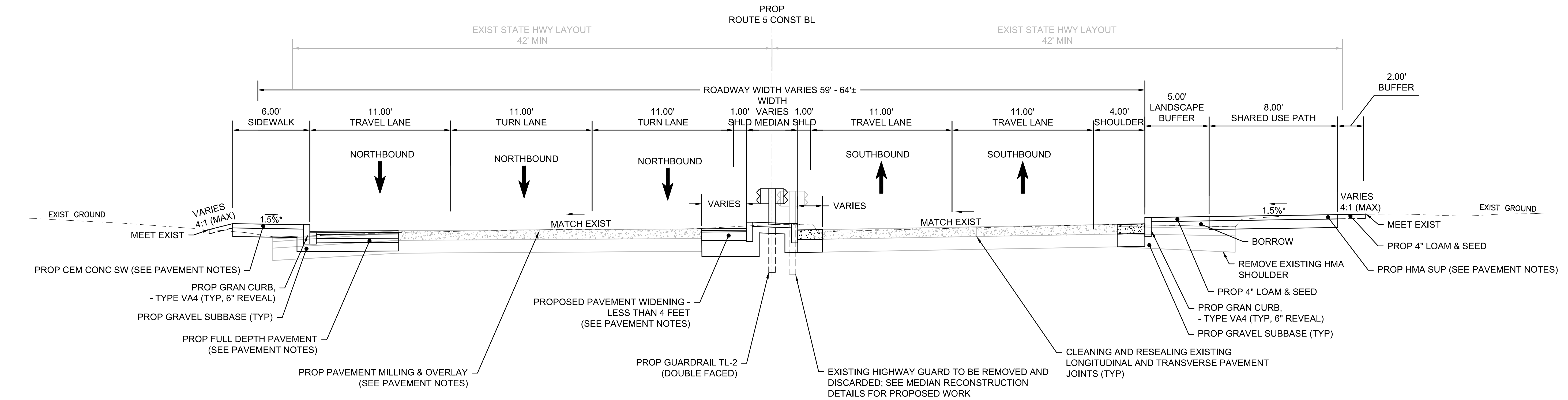
- ALL HMA SHALL BE IN ACCORDANCE WITH SECTION 450 QUALITY ASSURANCE OF HMA SPECIFICATIONS. HMA FOR PATCHING, ASPHALT EMULSION FOR TACK COAT AND HMA JOINT SEALANT SHALL BE CONSTRUCTED PRIOR TO RESURFACING.
- ALL CAST IRON GRATES SHALL BE FLUSH SEALED WITH HMA SURFACE AND SEALED.
- FOR CONCRETE REINFORCEMENT AND JOINT DETAILS SEE CONSTRUCTION DETAIL SHEETS.



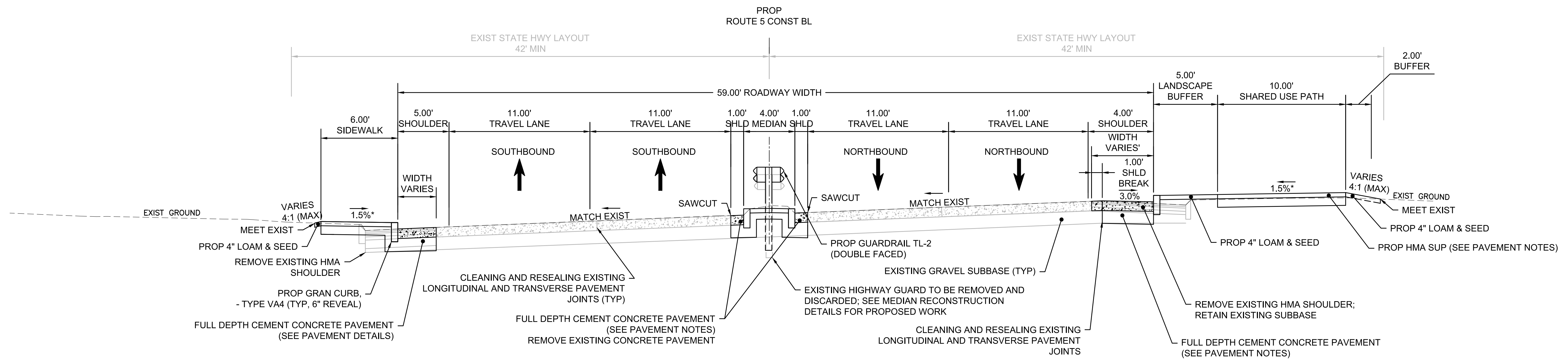


* TOLERANCE FOR CONSTRUCTION +/- 0.5%





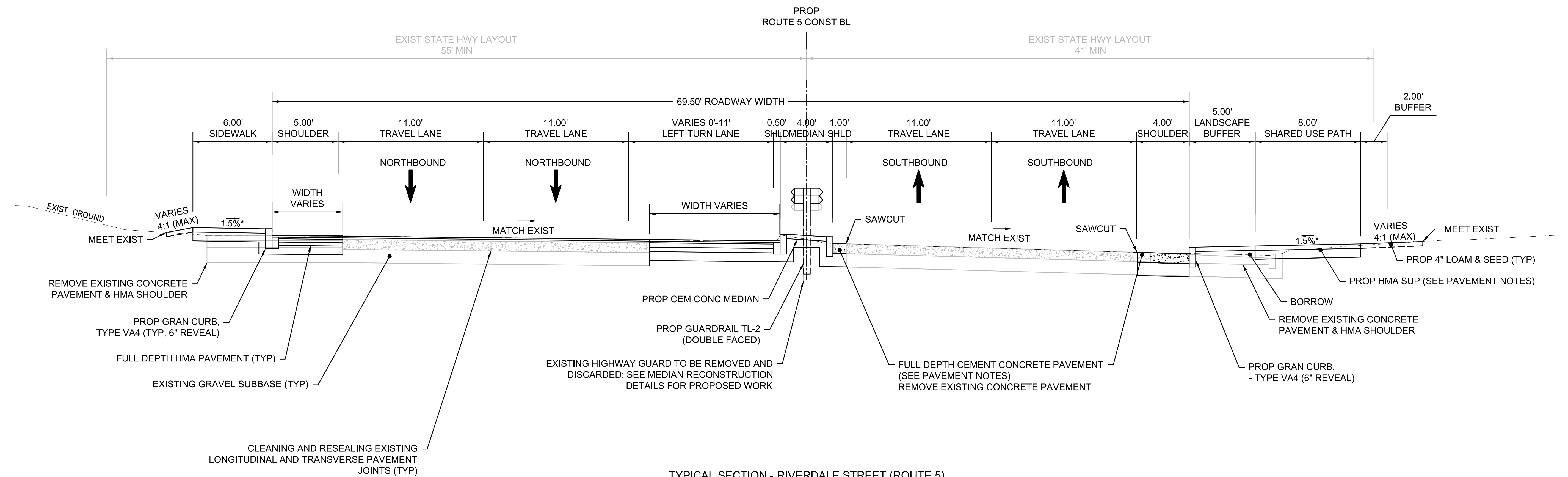
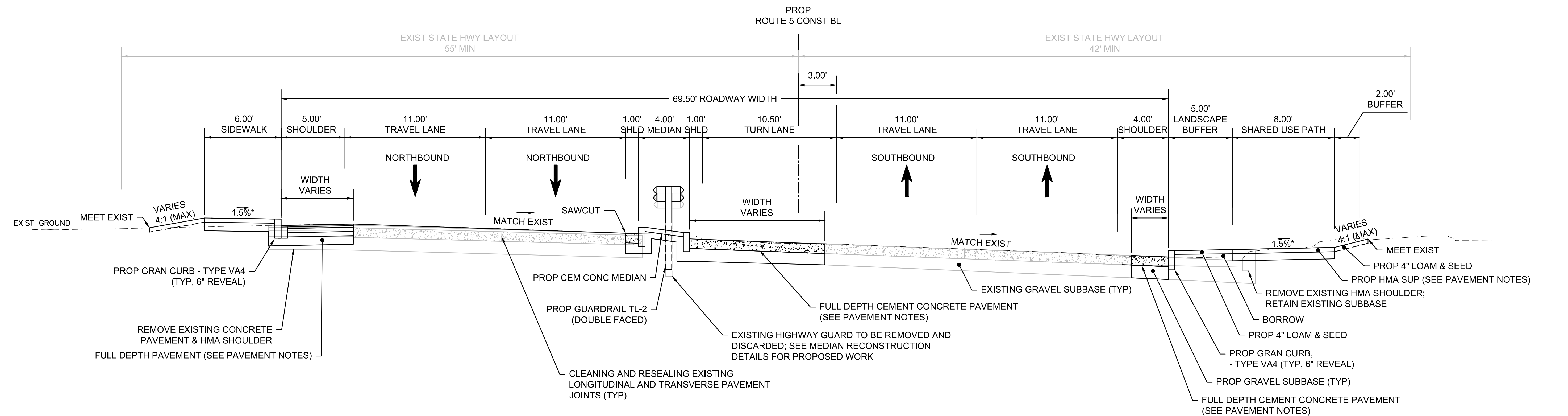
TYPICAL SECTION - RIVERDALE STREET (ROUTE 5)
STA 100+11± TO STA 102+60±
SCALE: 1" = 4'



TYPICAL SECTION - RIVERDALE STREET (ROUTE 5)
STA 62+00± TO STA 71+00±
STA 89+50± TO STA 104+50±
SCALE: 1" = 4'

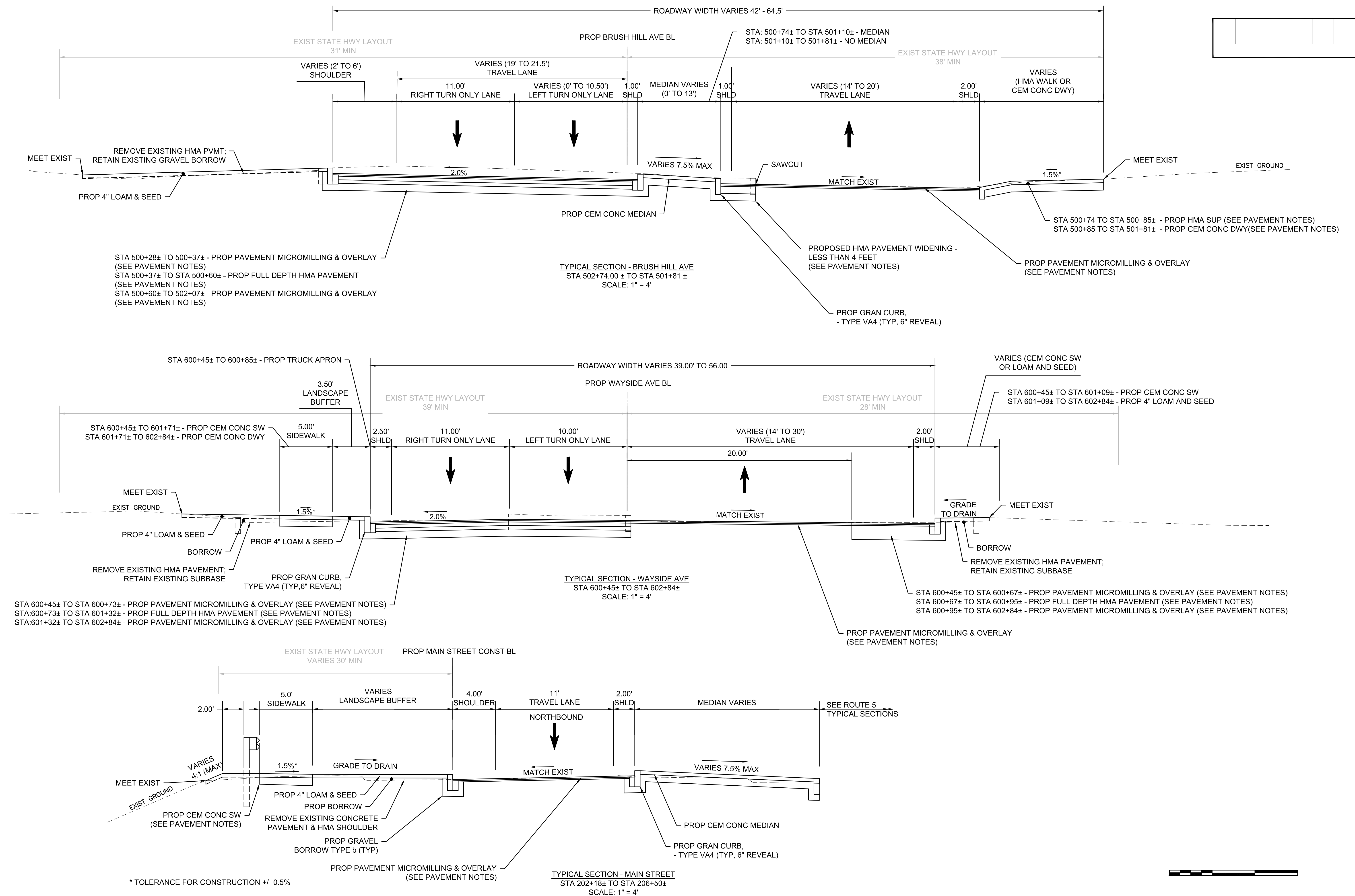
* TOLERANCE FOR CONSTRUCTION +/- 0.5%





* TOLERANCE FOR CONSTRUCTION +/- 0.5%





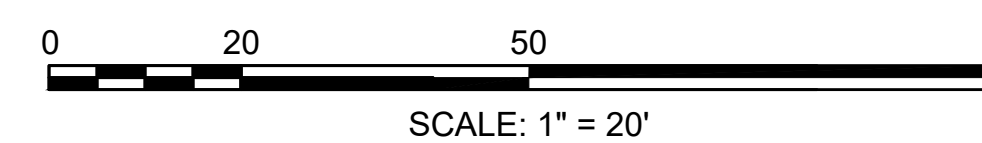
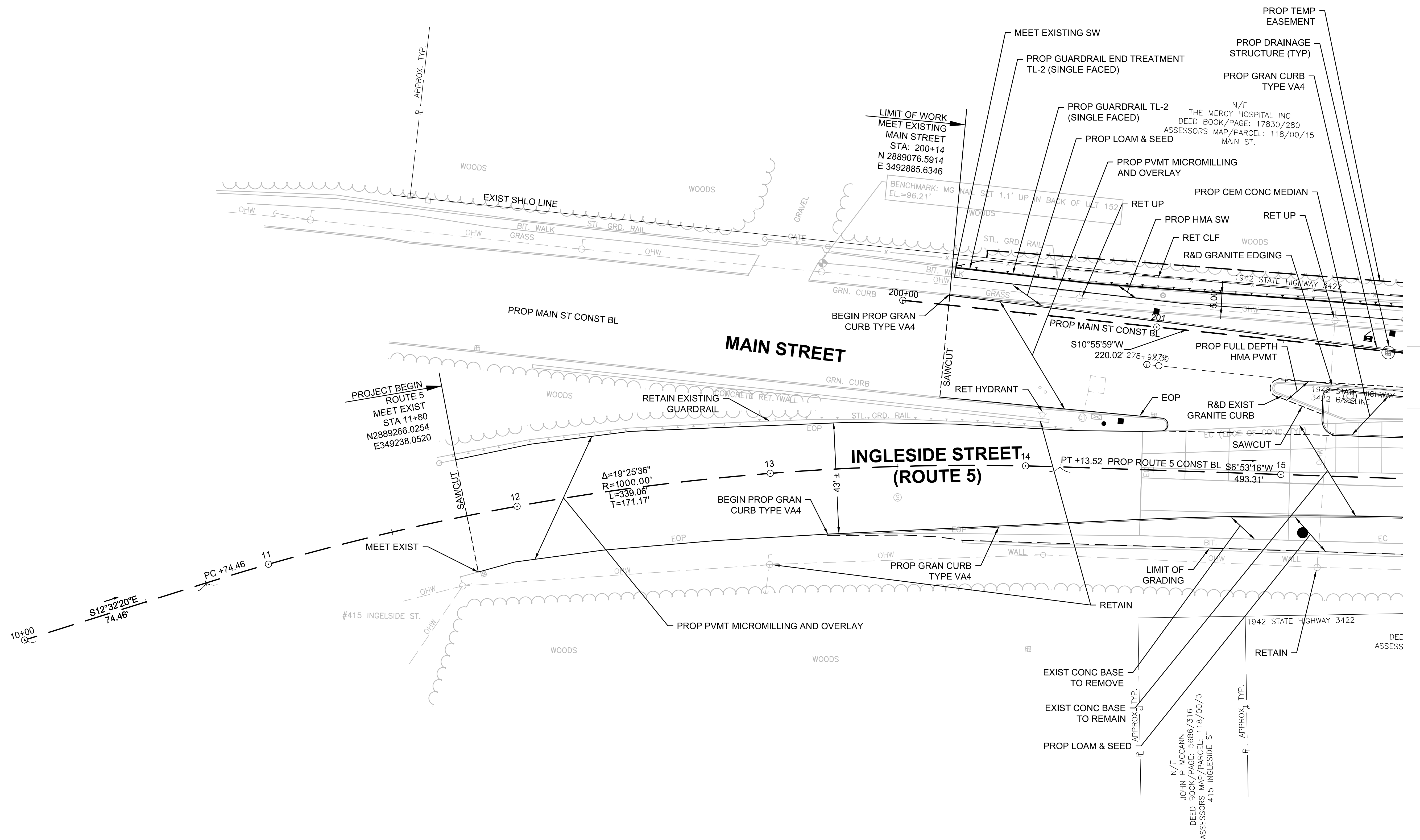
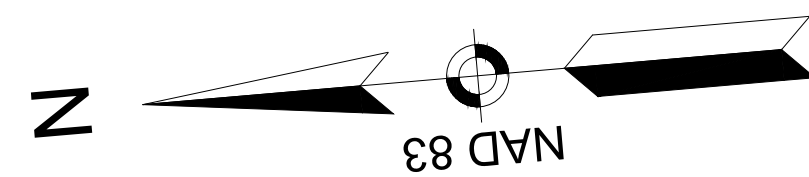
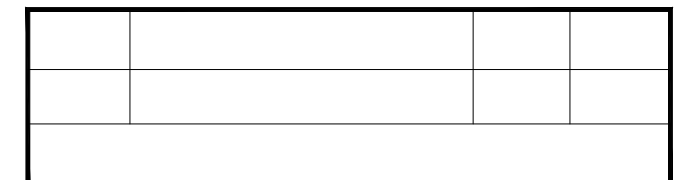
PROP GUARDRAIL TL-2 (SINGLE FACED)

STA 200+19 TO STA 204+81 LT (MAIN ST)

SEE SHEET 112

SEE SHEET 45

SEE SHEET 45

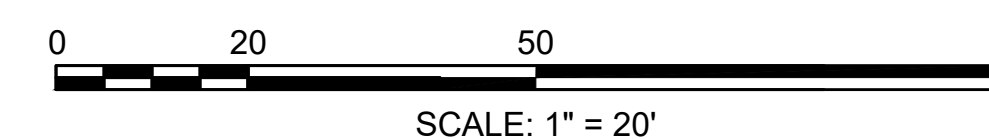
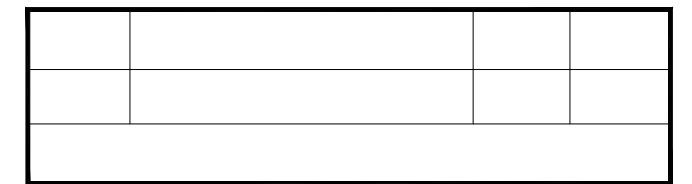


PROP GUARDRAIL TL-2 (SINGLE FACED) STA 200+19 TO STA 204+81 LT (MAIN ST)

SEE SHEETS 112 & 114

SEE SHEET 46

SEE SHEET 46



HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

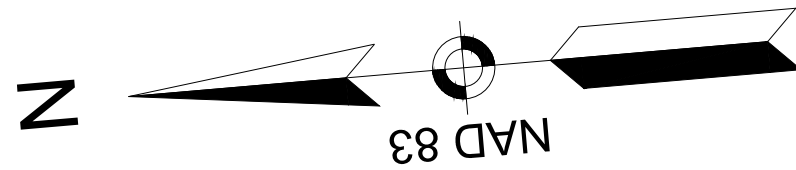
SEE SHEET 114

WATER SUPPLY ALTERATIONS

SEE SHEET 47

DRAINAGE DETAILS

SEE SHEET 47



N/F
THE MERCY HOSPITAL INC
DEED BOOK/PAGE: 17830/280
ASSESSORS MAP/PARCEL: 118/00/15
MAIN ST.

PROP PVMT MICROMILLING
AND OVERLAY

MEET EXISTING

END PROP GRAN
CURB TYPE VA4

PROP GRAN
CURB TYPE
VA4

PROP HMA SW

RET UP

GRN. CURB

R&D EXIST GRANITE CURB

PROP CEM CONC WCR CONC

RETAIN

PROP LOAM & SEED

R&D EXIST SLOPED EDGING

PROP GRAN CURB
TYPE VA4

MEET EXISTING

END PROP GRAN
CURB TYPE VA4

HOSPITAL ENTRANCE ROAD

LIMIT OF WORK
MEET EXIST

BEGIN PROP GRAN
CURB TYPE VA4

PROP FULL
DEPTH HMA PVMT

SCORED CEM
CONC

PROP HMA SW

RET EXIST GUARD RAIL

PROP SEDIMENT
CONTROL BARRIER

PROP HMA SW

PROP LOAM & SEED

PROP GRAN CURB
TYPE VA4

R&D EXIST GRANITE CURB

RET EXIST GUARD RAIL

RET UP

EXIST CONC BASE
TO REMOVE

MAIN STREET
(ROUTE 5)

PROP ROUTE 5 CONST BL

R&D EXIST GUARD RAIL

RET UP

EXIST CONC BASE
TO REMOVE

RETAIN

PROP LOAM & SEED

PROP CEM CONC WCR CONC

PROP SUP

PROP LIMIT OF GRADING

BEGIN PROP GRAN
CURB TYPE VA4

END PROP GRAN
CURB TYPE VA4

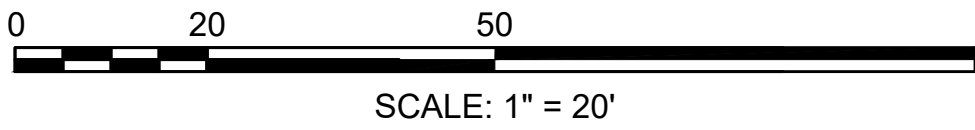
PROP PVMT MICROMILLING
AND OVERLAY

PROP TEMP EASEMENT

LIMIT OF WORK

BENCHMARK: MG NAIL SET 1' UP IN BACK OF ULT 161
EL.=82.64'

1671 MASSDOT
N: 2888.19.020
E: 349030.917
EL: 82.111
IRON ROD

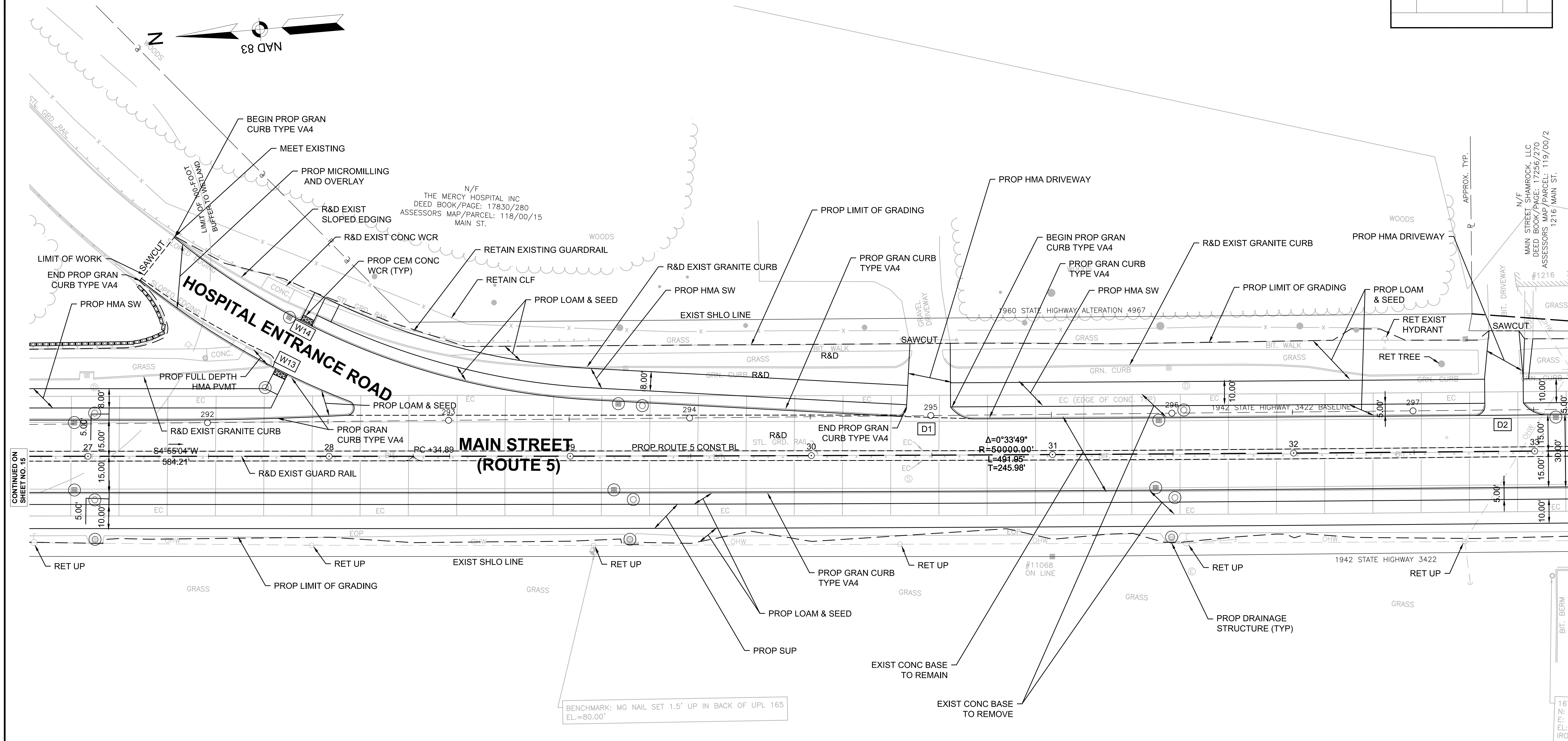
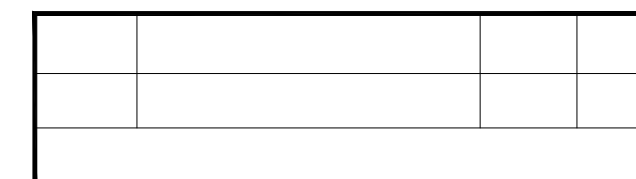


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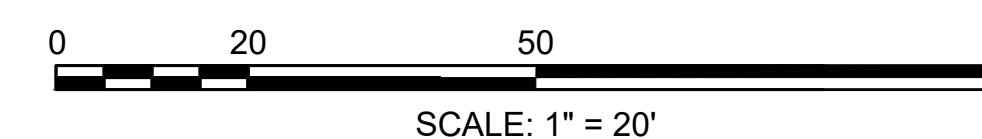
NONE

SEE SHEET 48

SEE SHEET 48



BENCHMARK: MG NAIL SET 1.

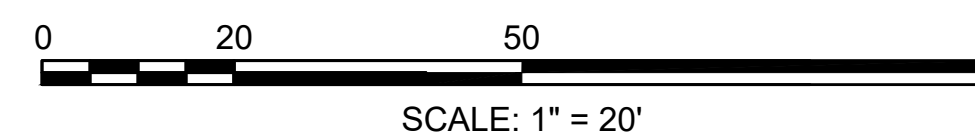
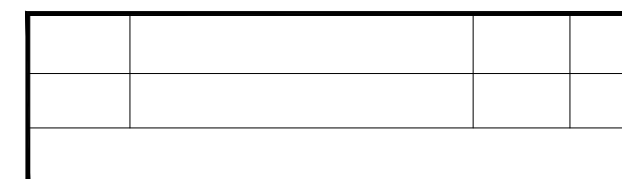


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SEE SHEET 116

SEE SHEET 49

SEE SHEET 49

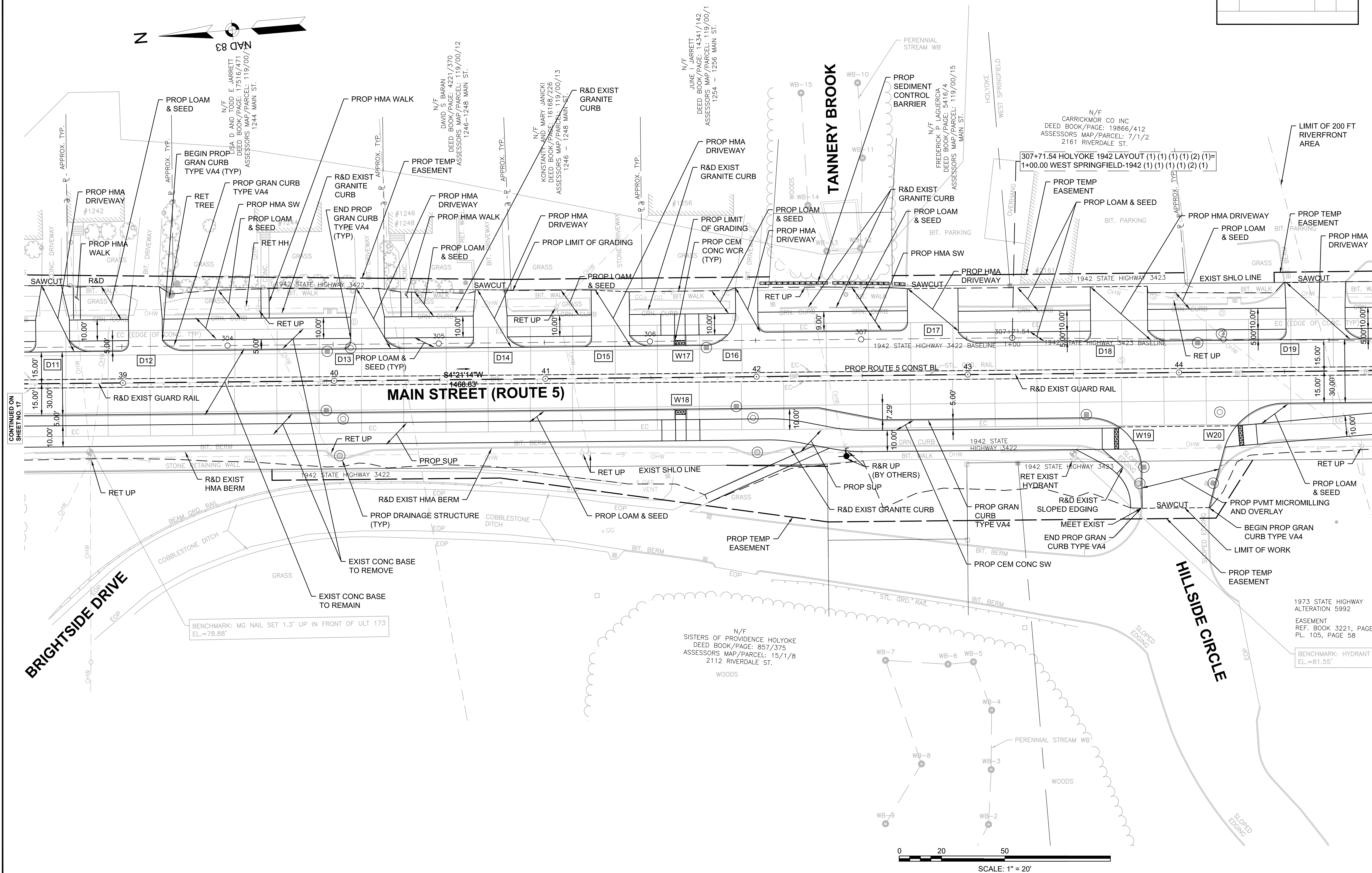
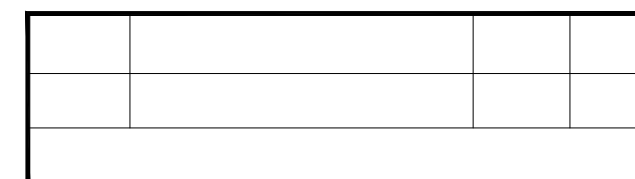


NONE

SEE SHEET 116

SEE SHEET 50

SEE SHEET 50

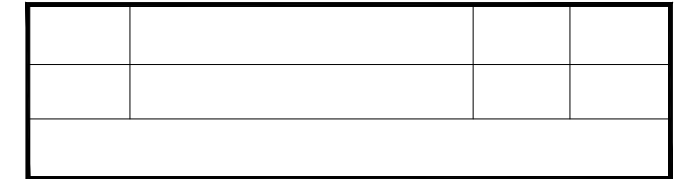


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SEE SHEET 116

SEE SHEET 51

SEE SHEET 51



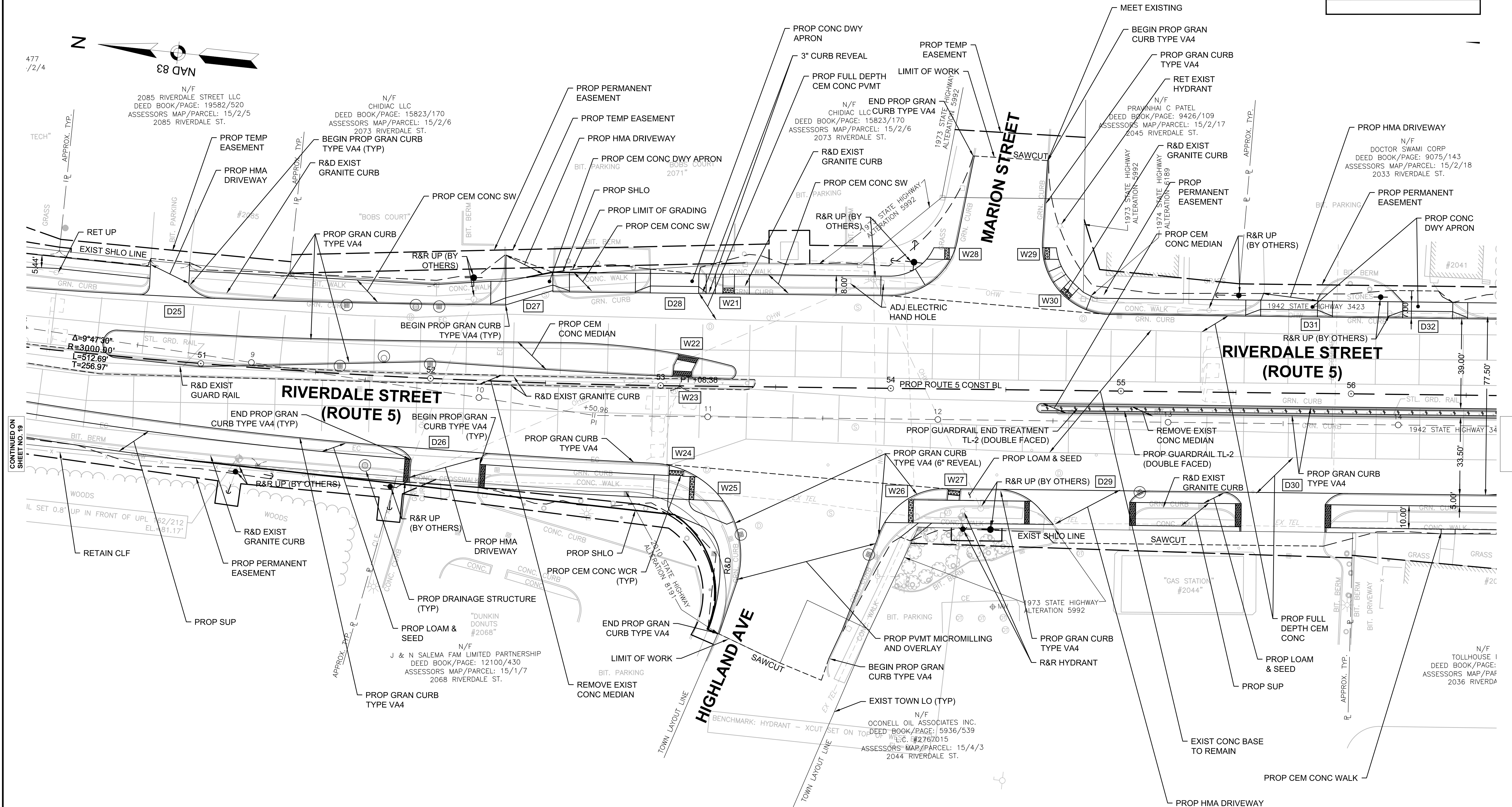
GUARDRAIL END TREATMENT TL-2 (DOUBLE FACED)
GUARDRAIL TL-2 (DOUBLE FACED)

STA 54+66 TO STA 55+03 RT
STA 55+03 TO STA 63+44 RT

SEE SHEET 117

SEE SHEET 52

SEE SHEET 52



HIGHWAY GUARD DETAILS

GUARDRAIL TL-2 (DOUBLE FACED)
TRAILING ANCHORAGE
GUARDRAIL FLARED END TREATMENT TL-2
GUARDRAIL TL-2 (SINGLE FACED)

TRANSITION TO NCHRP 350 GUARDRAIL

STA 61+35 TO STA 61+48 LT

STA 61+48 TO STA 62+07 LT
STA 62+07 TO STA 62+42 LT

STA 55+03 TO STA 63+44 RT

STA 61+87 TO STA 62+23 RT
STA 62+23 TO STA 63+19 RT

TRAFFIC SIGNAL CONDUIT

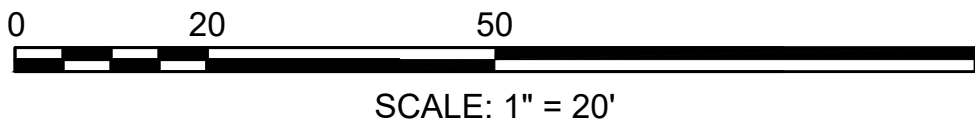
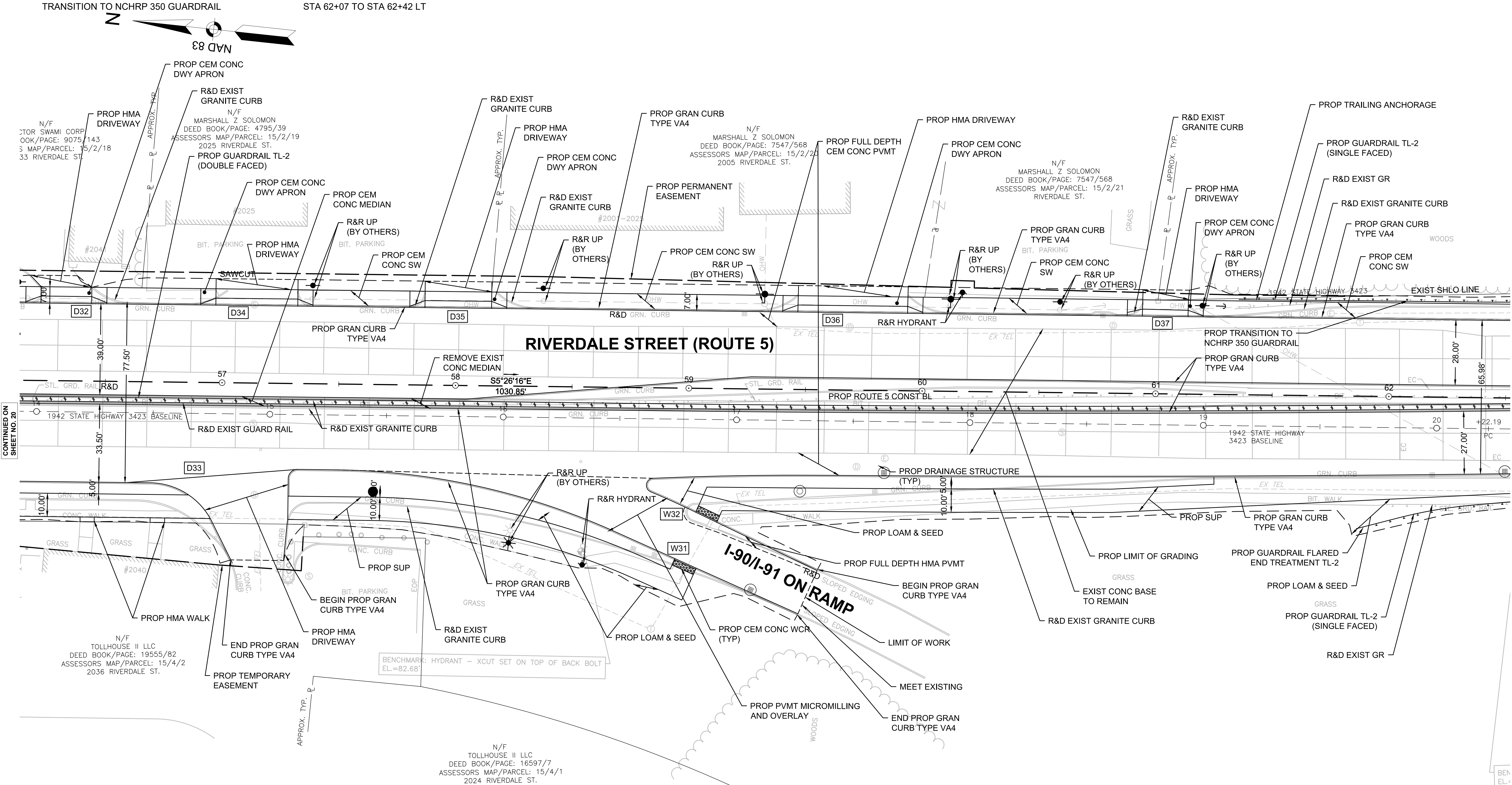
SEE SHEET 117

WATER SUPPLY ALTERATIONS

SEE SHEET 53

DRAINAGE DETAILS

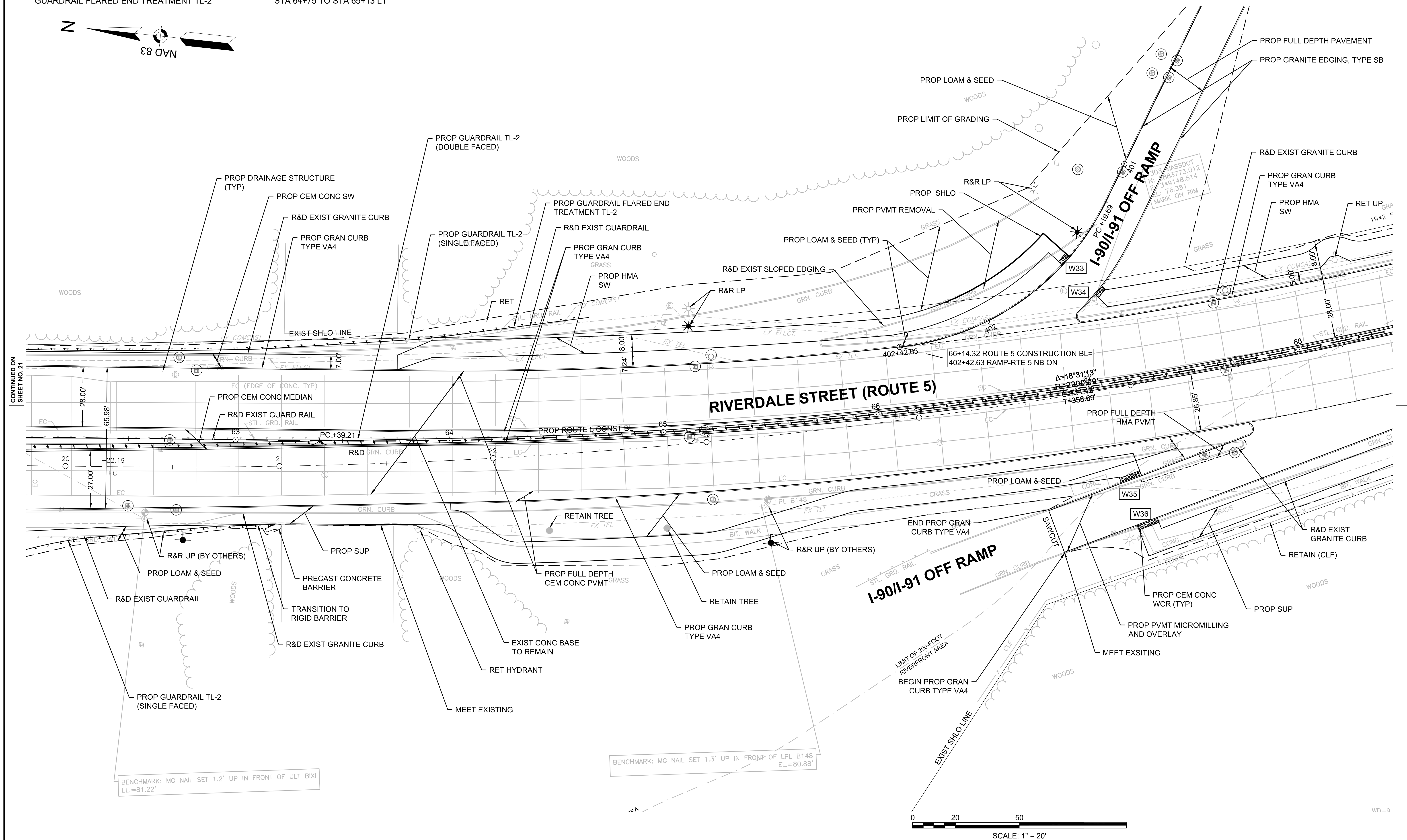
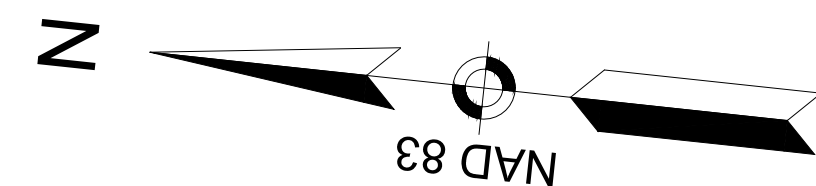
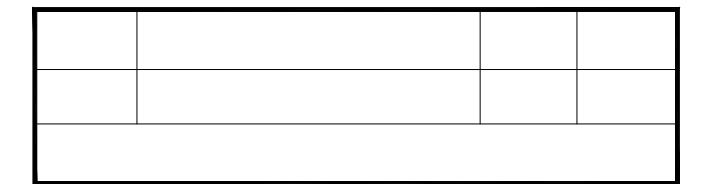
SEE SHEET 53



DRAINAGE DETAILS

STA 55+03 TO STA 63+44 RT
STA 62+23 TO STA 63+19 RT
STA 63+19 TO STA 63+22 RT
STA 63+44 TO STA 92+47 LT/RT
STA 63+81 TO STA 63+94 LT
STA 63+94 TO STA 64+75 LT
STA 64+75 TO STA 65+13 LT

SEE SHEET 54



HIGHWAY GUARD DETAILS

GUARDRAIL TL-2 (DOUBLE FACED)
TRAILING ANCHORAGE
GUARDRAIL TL-2 (SINGLE FACED)
GUARDRAIL TANGENT END TREATMENT TL-2

STA 63+44 TO STA 92+47 LT/RT
STA 73+40 TO STA 73+44 LT
STA 73+44 TO STA 73+99 LT
STA 73+99 TO STA 74+36 LT

TRAFFIC SIGNAL CONDUIT

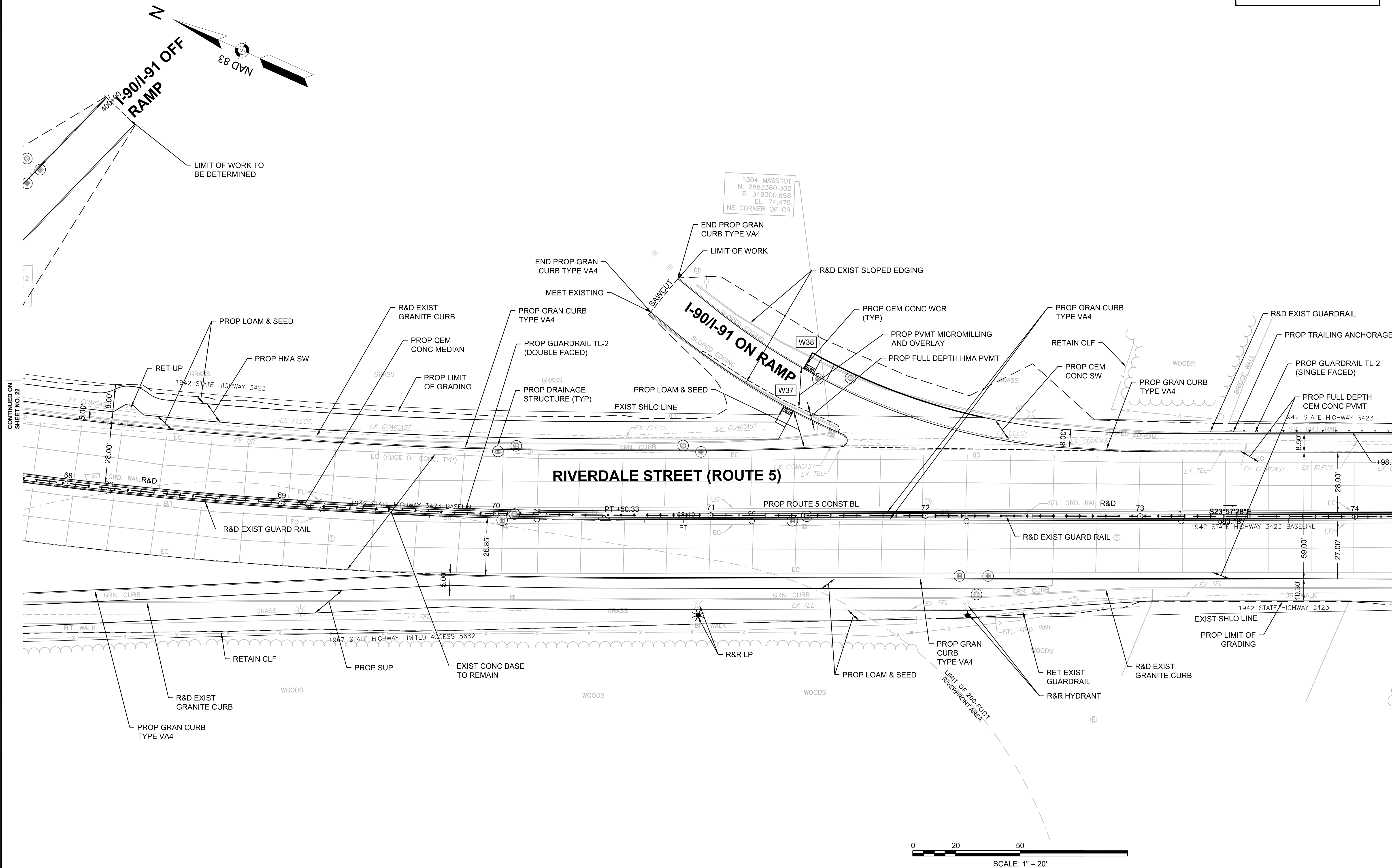
NONE

WATER SUPPLY ALTERATIONS

SEE SHEET 56

DRAINAGE DETAILS

SEE SHEET



CONTINUED ON
SHEET NO. 22

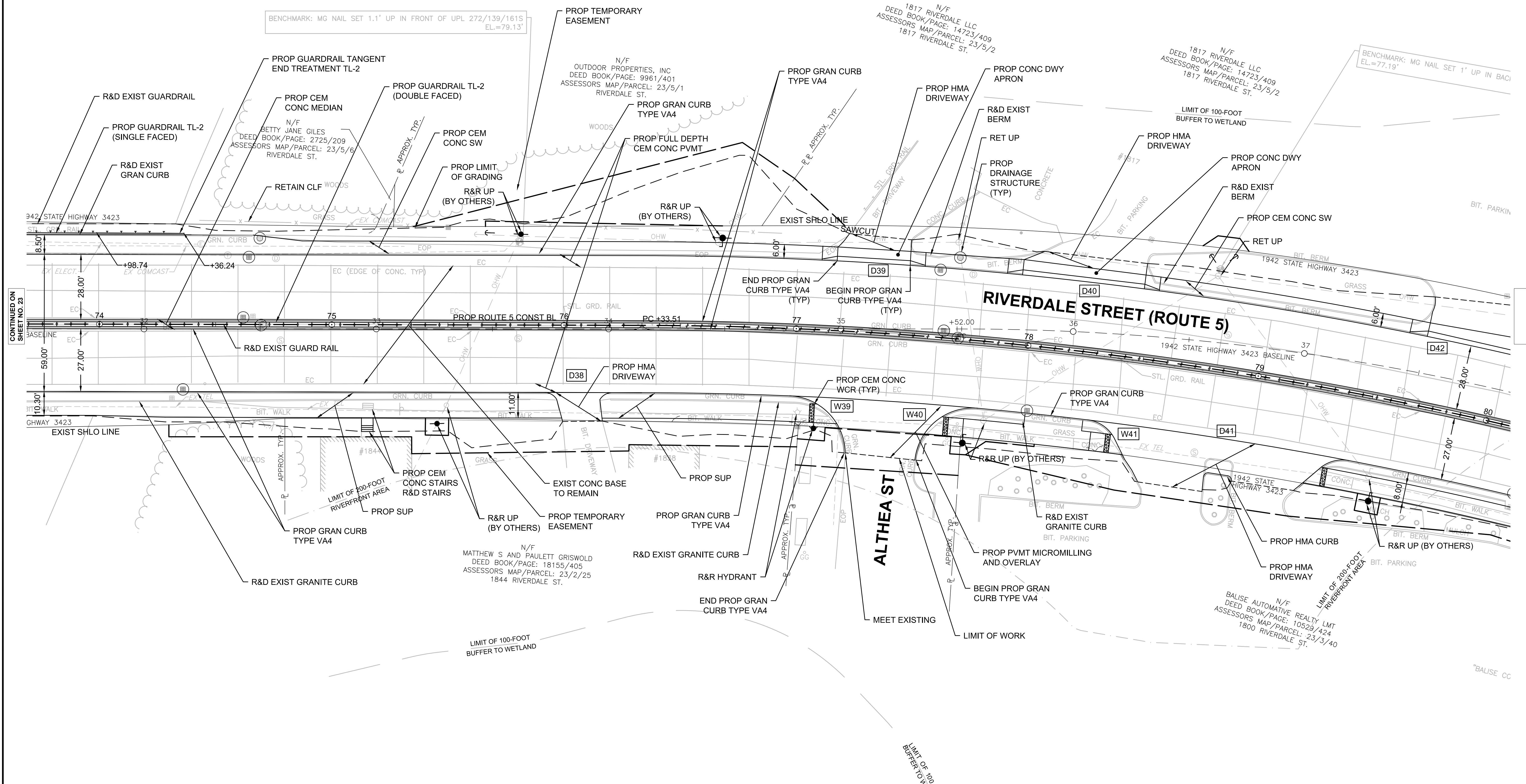
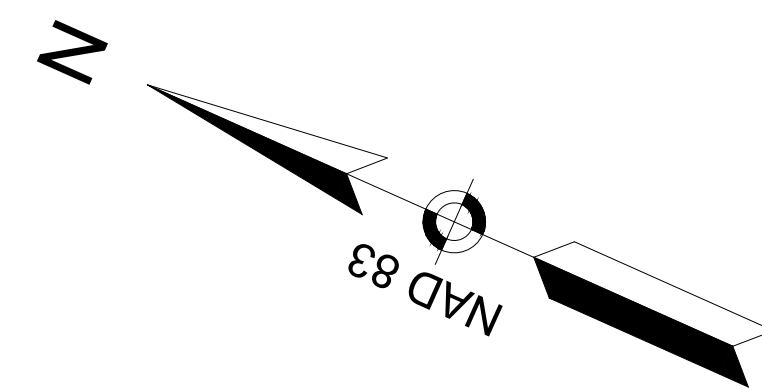
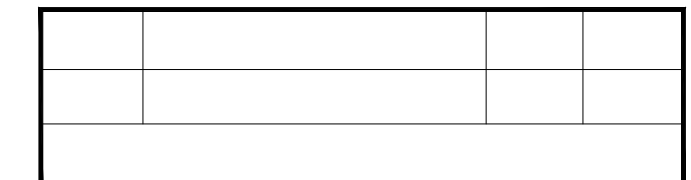
GUARDRAIL TL-2 (DOUBLE FACED)
GUARDRAIL TL-2 (SINGLE FACED)
GUARDRAIL TANGENT END TREATMENT TL-2

STA 63+44 TO STA 92+47 LT/RT
STA 73+44 TO STA 73+99 LT
STA 73+99 TO STA 74+36 LT

NONE

SEE SHEET 57

SEE SHEET 57



SCALE: 1" = 20'

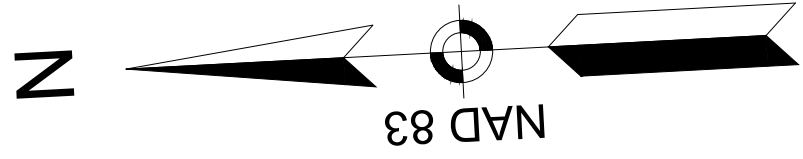
HIGHWAY GUARD DETAILS
GUARDRAIL TL-2 (DOUBLE FACED)

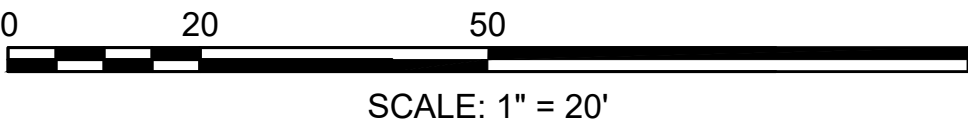
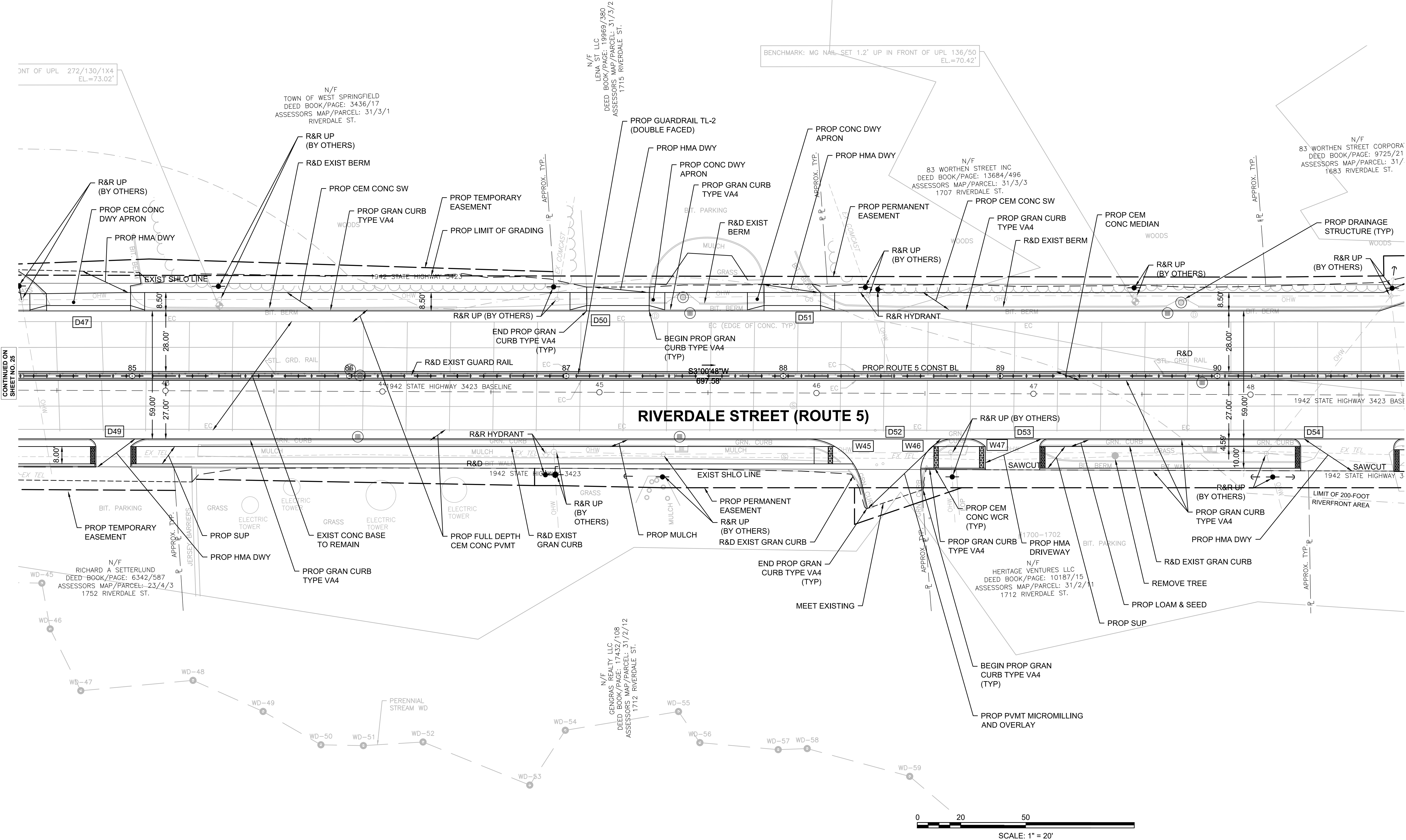
STA 63+44 TO STA 92+47 LT/RT

TRAFFIC SIGNAL CONDUIT
SEE SHEET 119

WATER SUPPLY ALTERATIONS
SEE SHEET 58

DRAINAGE DETAILS
SEE SHEET 58





HIGHWAY GUARD DETAILS

GUARDRAIL TL-2 (DOUBLE FACED)
GUARDRAIL END TREATMENT TL-2 (DOUBLE FACED)
GUARDRAIL TL-2 (DOUBLE FACED)

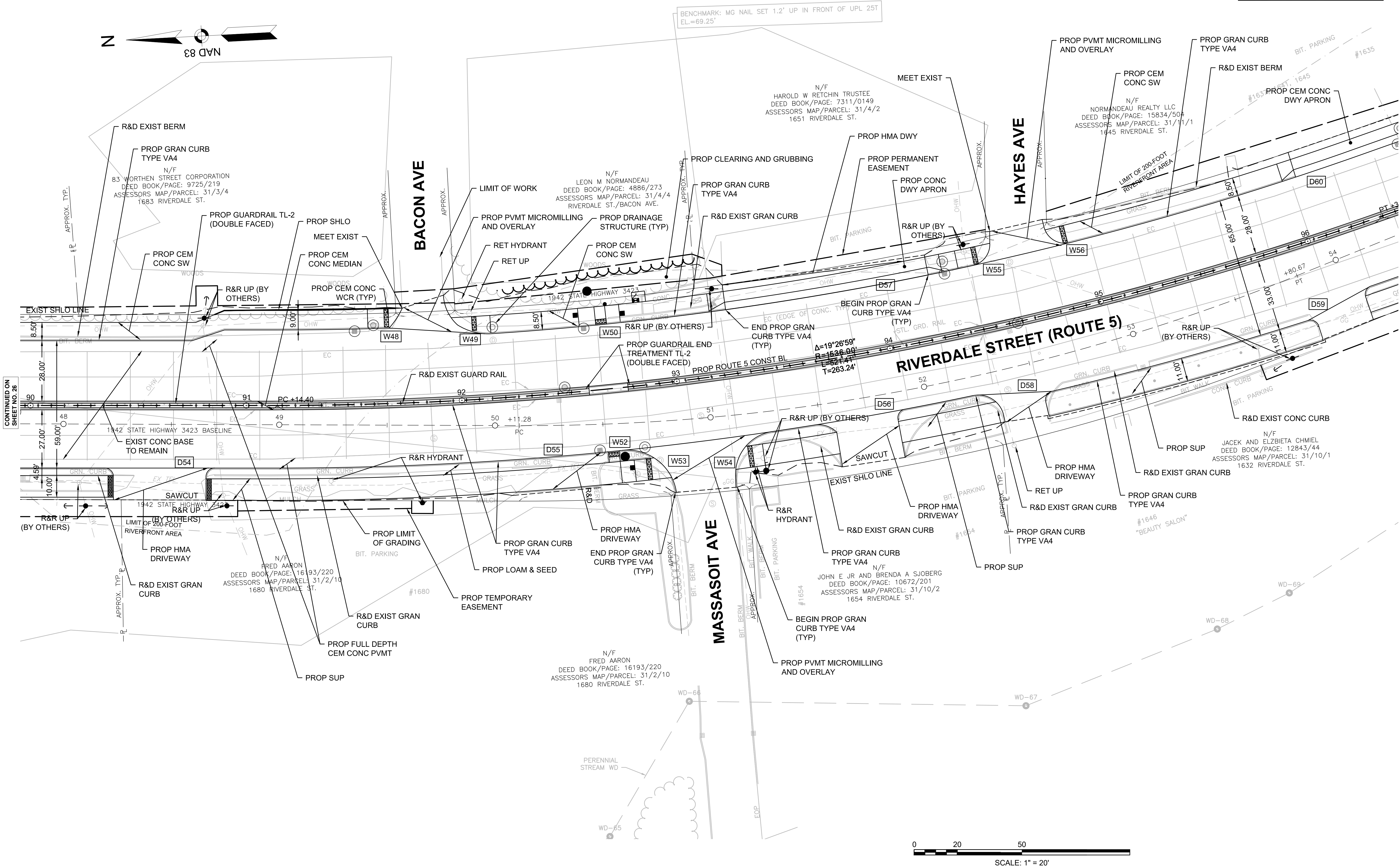
TRAFFIC SIGNAL CONDUIT

SEE SHEET 119

WATER SUPPLY ALTERATIONS

SEE SHEET 59

DRAINAGE DETAILS



0 20 50
SCALE: 1" = 20'

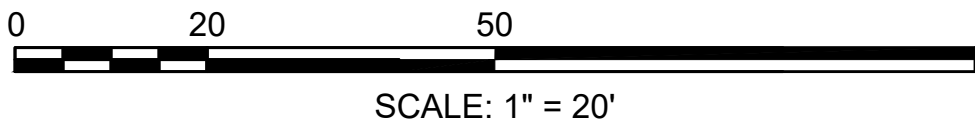
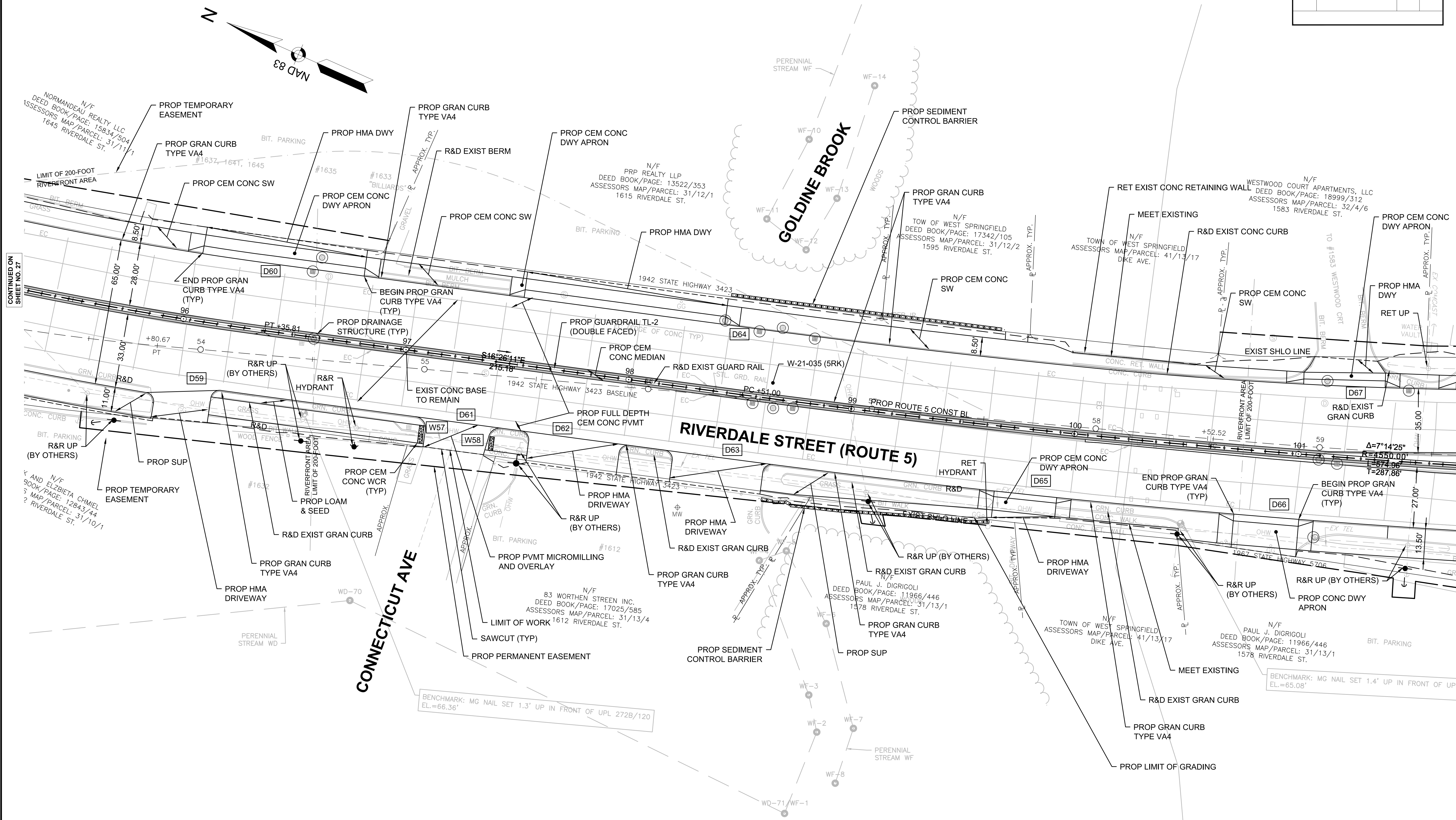
HIGHWAY GUARD DETAILS
GUARDRAIL TL-2 (DOUBLE FACED)

STA 92+90 TO STA 101+96 LT/RT

TRAFFIC SIGNAL CONDUIT
SEE SHEETS 119 & 120

WATER SUPPLY ALTERATIONS
SEE SHEET 60

DRAINAGE DETAILS
SEE SHEET 60



HIGHWAY GUARD DETAILS

GUARDRAIL TL-2 (DOUBLE FACED)
 GUARDRAIL END TREATMENT TL-2 (DOUBLE FACED)
 GUARDRAIL END TREATMENT TL-2 (DOUBLE FACED)
 GUARDRAIL TL-2 (DOUBLE FACED)
 GUARDRAIL TL-2 (DOUBLE FACED)

STA 92+90 TO STA 101+96 LT/RT
 STA 101+96 TO STA 102+34 LT/RT
 STA 103+75 TO STA 104+12 LT/RT
 STA 104+12 TO STA 106+79 LT/RT
 STA 106+79 TO STA 110+47 LT

TRAFFIC SIGNAL CONDUIT

SEE SHEET 120

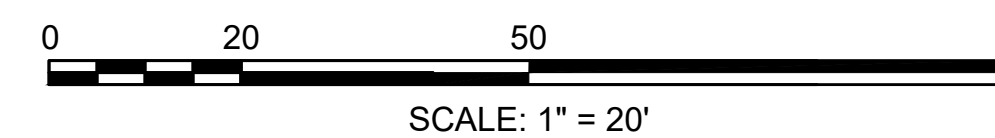
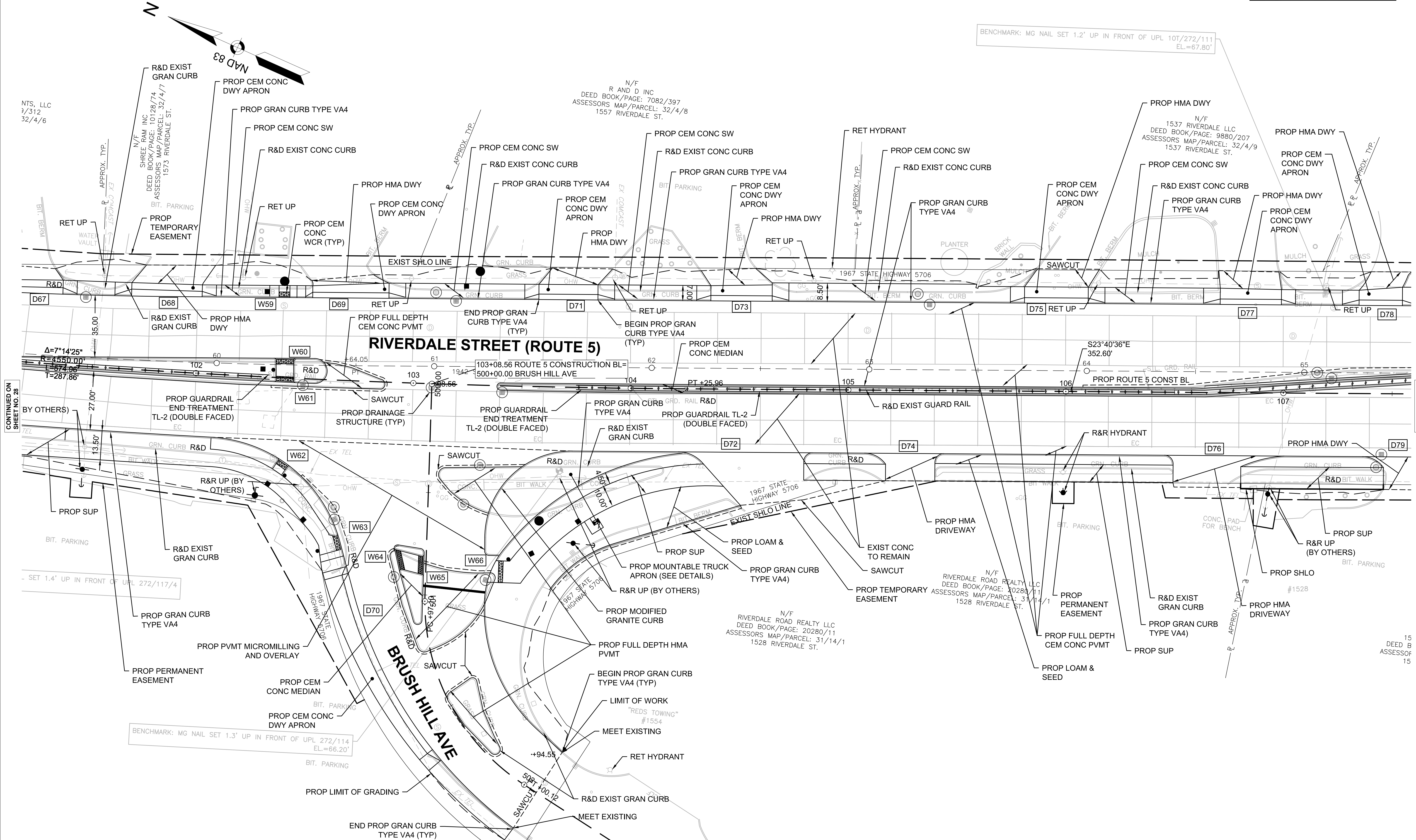
WATER SUPPLY ALTERATIONS

SEE SHEET 61

DRAINAGE DETAILS

SEE SHEET 61

BENCHMARK: MG NAIL SET 1.2' UP IN FRONT OF UPL 10T/272/111
 EL.=67.80'



HIGHWAY GUARD DETAILS

GUARDRAIL TL-2 (DOUBLE FACED)
GUARDRAIL END TREATMENT TL-2 (DOUBLE FACED)
GUARDRAIL END TREATMENT TL-2 (DOUBLE FACED)
GUARDRAIL TL-2 (DOUBLE FACED)

STA 106+79 TO STA 110+47 LT
STA 110+47 TO STA 110+85 LT
STA 112+25 TO STA 112+63 LT/RT
STA 112+63 TO STA 130+92 LT/RT

TRAFFIC SIGNAL CONDUIT

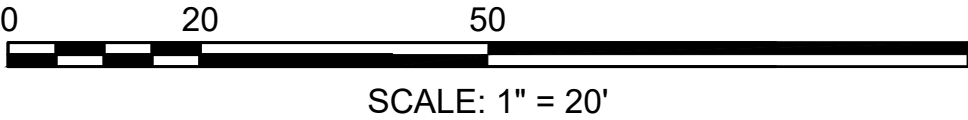
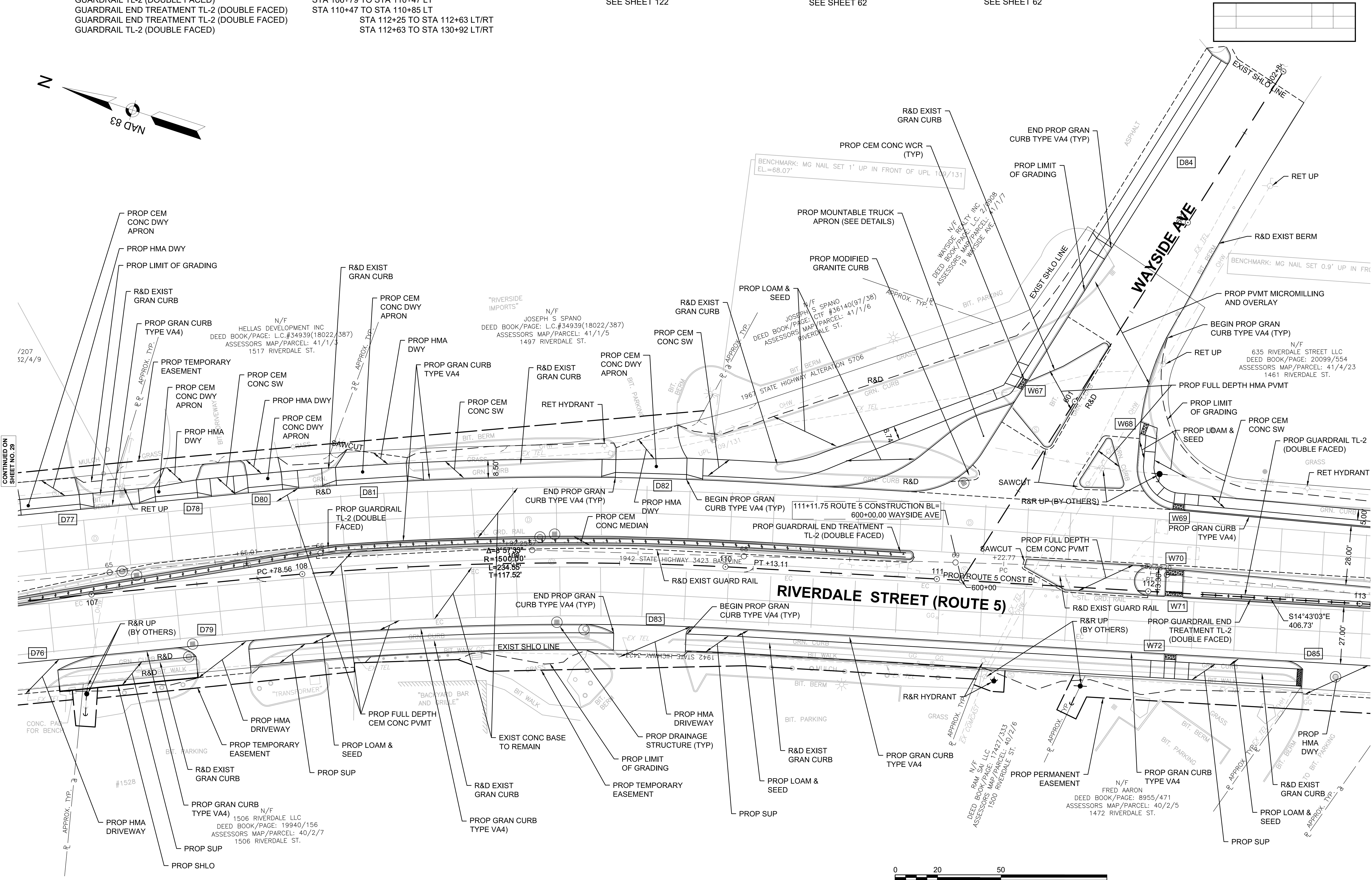
SEE SHEET 122

WATER SUPPLY ALTERATIONS

SEE SHEET 62

DRAINAGE DETAILS

SEE SHEET 62



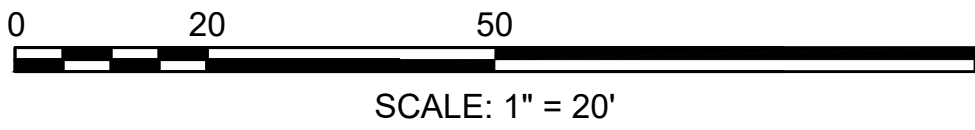
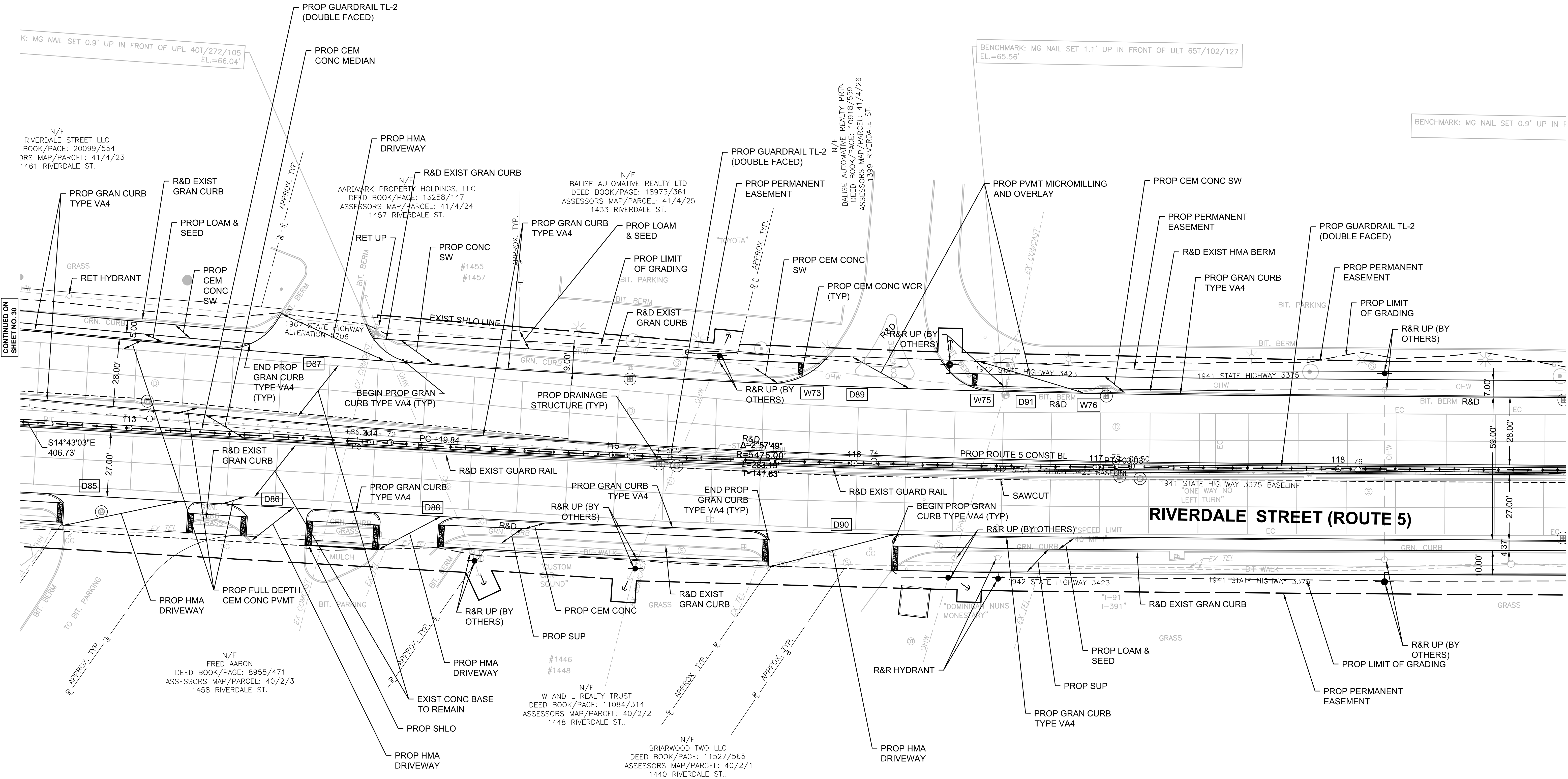
HIGHWAY GUARD DETAILS
GUARDRAIL TL-2 (DOUBLE FACED)

STA 112+63 TO STA 130+92 LT/RT

TRAFFIC SIGNAL CONDUIT
SEE SHEET 122

WATER SUPPLY ALTERATIONS
SEE SHEET 63

DRAINAGE DETAILS
SEE SHEET 63



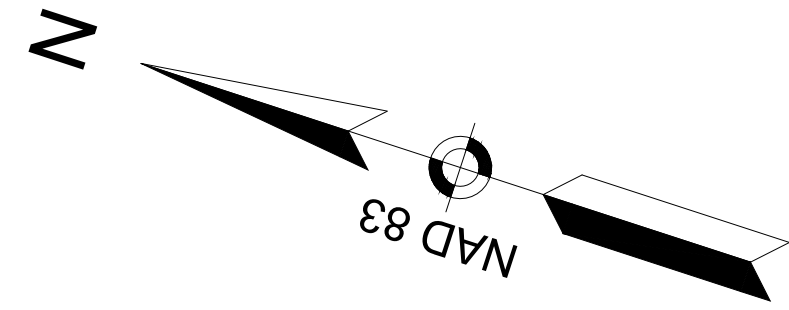
HIGHWAY GUARD DETAILS
GUARDRAIL TL-2 (DOUBLE FACED)

STA 112+63 TO STA 130+92 LT/RT

TRAFFIC SIGNAL CONDUIT
NONE

WATER SUPPLY ALTERATIONS
SEE SHEET 64

DRAINAGE DETAILS
SEE SHEET



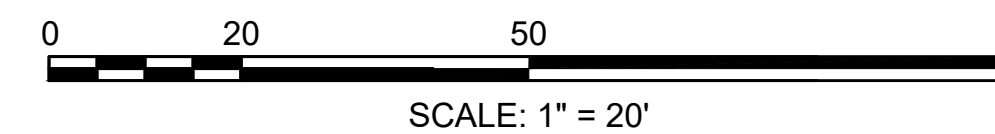
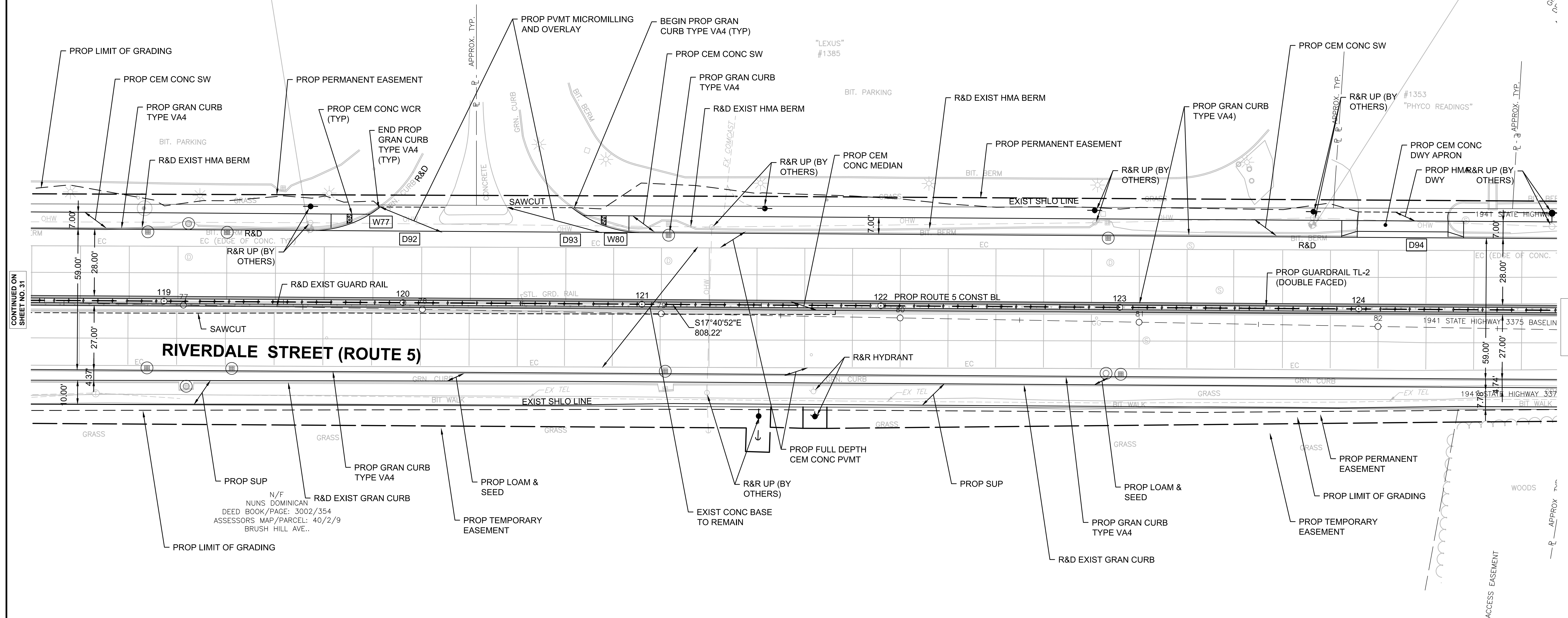
N/F
BALISE AUTOMATIVE REALTY LMT
DEED BOOK/PAGE: 10529/410
ASSESSORS MAP/PARCEL: 41/4/28
1371 RIVERDALE ST.

"TOYOTA"
#1399

ARK: MG NAIL SET 0.9' UP IN FRONT OF UPL 65T/101/125
EL.=65.08'

N/F
NORMA G MERCIER
DEED BOOK/PAGE: 4851/158
ASSESSORS MAP/PARCEL: 41/4/29
1353 RIVERDALE ST.

BENCHMARK: MG NA
EL.=66.56'



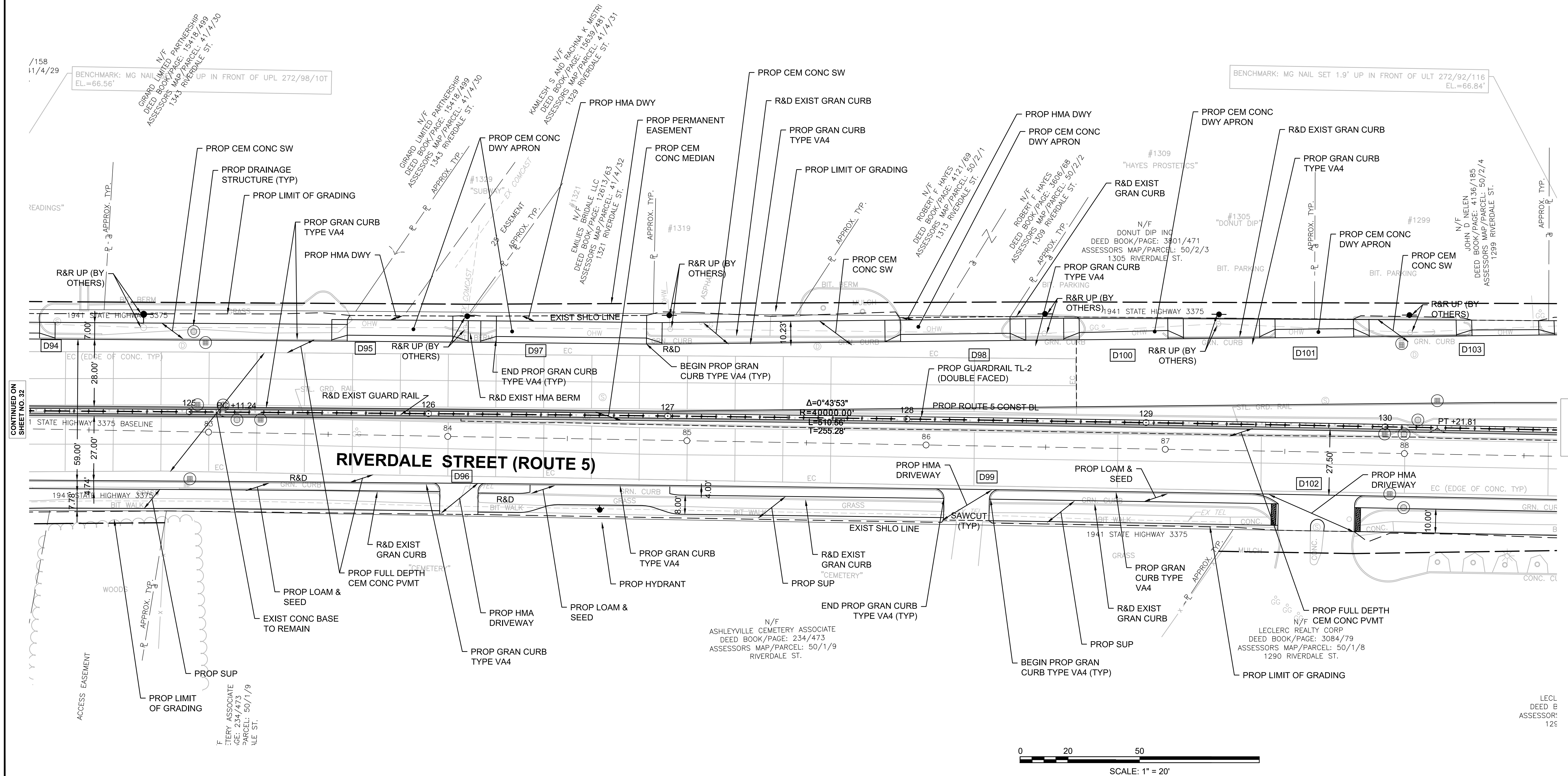
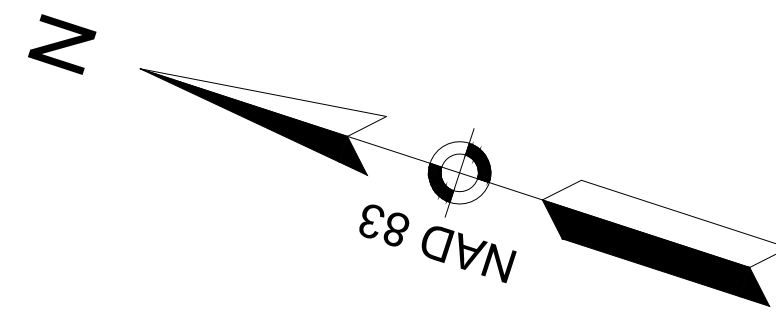
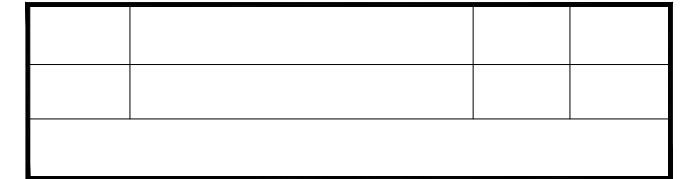
GUARDRAIL TL-2 (DOUBLE FACED)

STA 112+63 TO STA 130+92 LT/RT

SEE SHEET 124

SEE SHEET 65

SEE SHEET 65



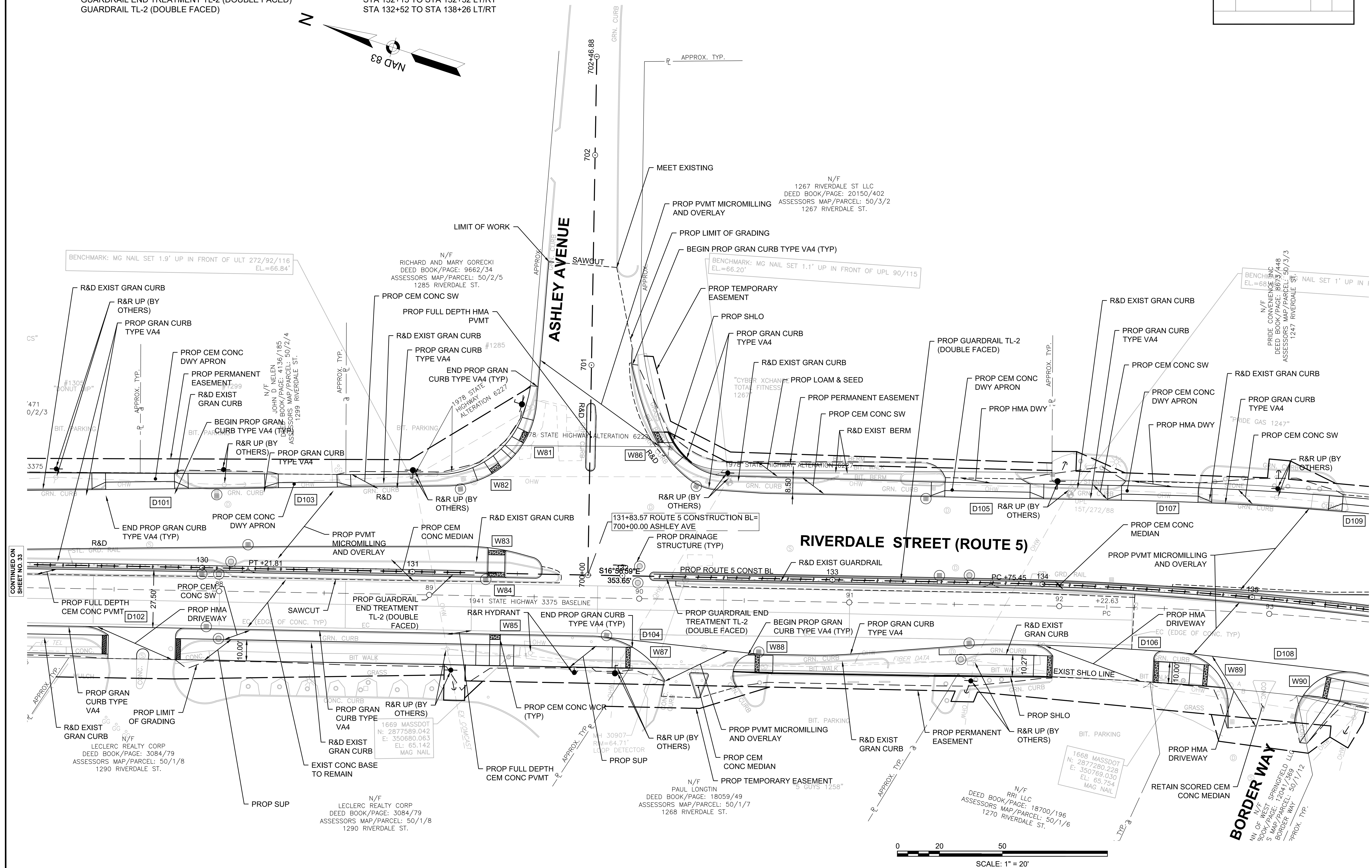
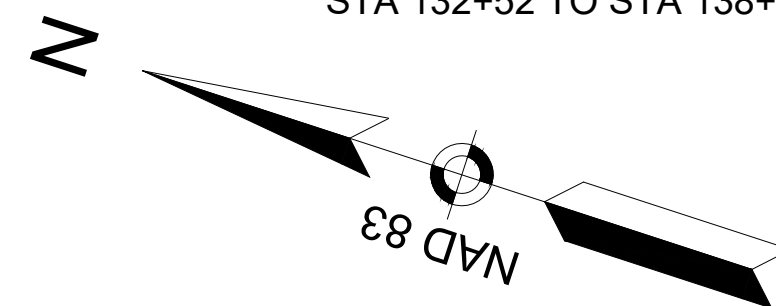
GUARDRAIL TL-2 (DOUBLE FACED)
GUARDRAIL END TREATMENT TL-2 (DOUBLE FACED)
GUARDRAIL END TREATMENT TL-2 (DOUBLE FACED)
GUARDRAIL TL-2 (DOUBLE FACED)

STA 112+63 TO STA 130+92 LT/RT
STA 130+92 TO STA 131+30 LT/RT
STA 132+15 TO STA 132+52 LT/RT
STA 132+52 TO STA 138+26 LT/RT

SEE SHEET 124

SEE SHEET 66

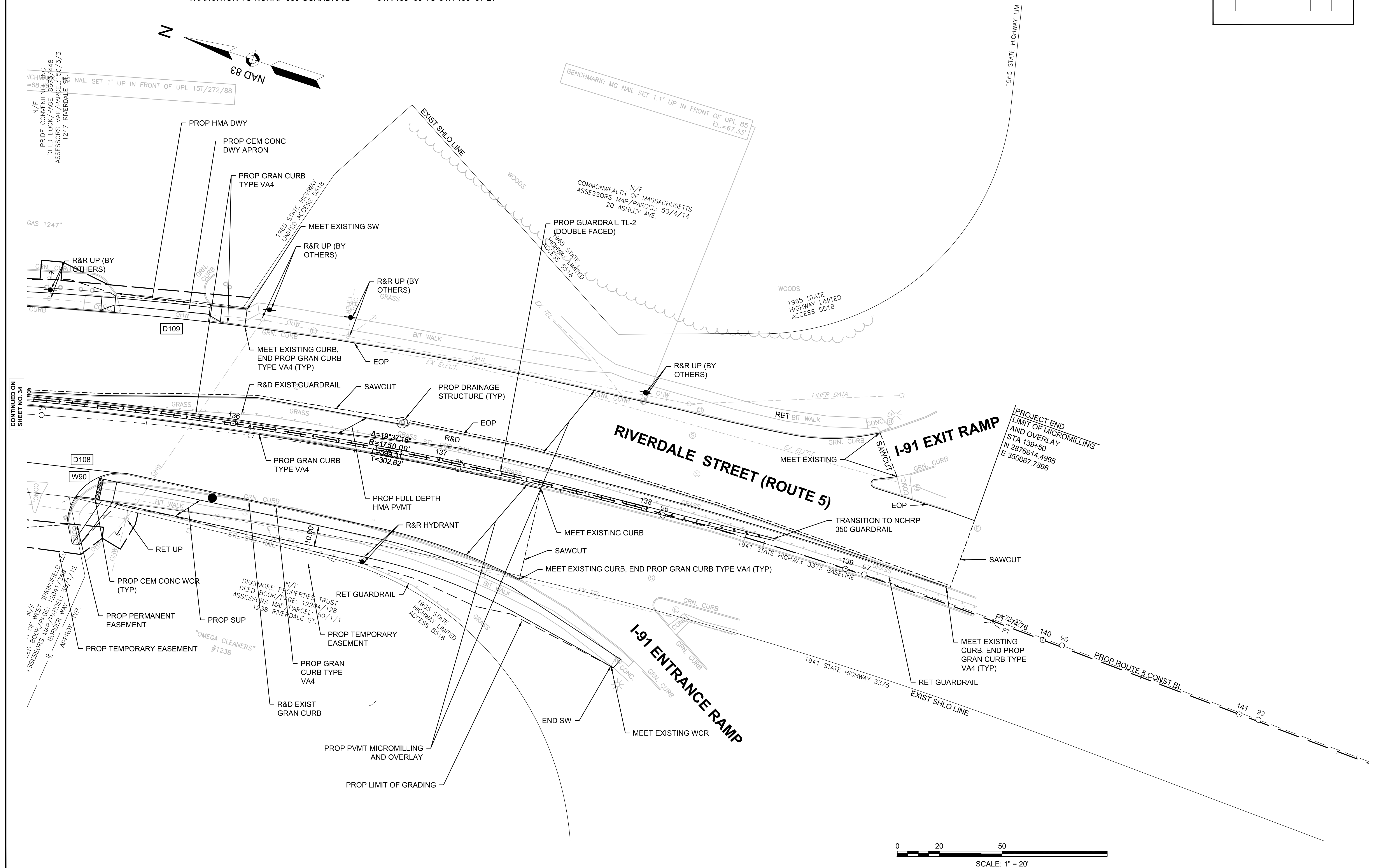
SEE SHEET



0 20 50
SCALE: 1" = 20'

DRAINAGE DETAILS

SEE SHEET 67



HIGHWAY GUARD DETAILS

GUARDRAIL TANGENT END TREATMENT TL-2
GUARDRAIL TL-2 (SINGLE FACED)
GUARDRAIL TANGENT END TREATMENT TL-2

STA 134+90 TO STA 135+27 LT
STA 135+27 TO STA 135+81 LT
STA 135+81 TO STA 136+19 LT

TRAFFIC SIGNAL CONDUIT

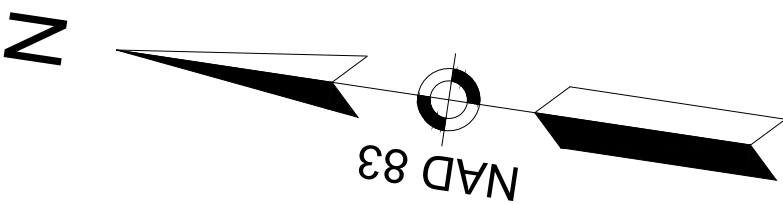
SEE SHEET 126

WATER SUPPLY ALTERATIONS

SEE SHEET 68

DRAINAGE DETAILS

SEE SHEET 68



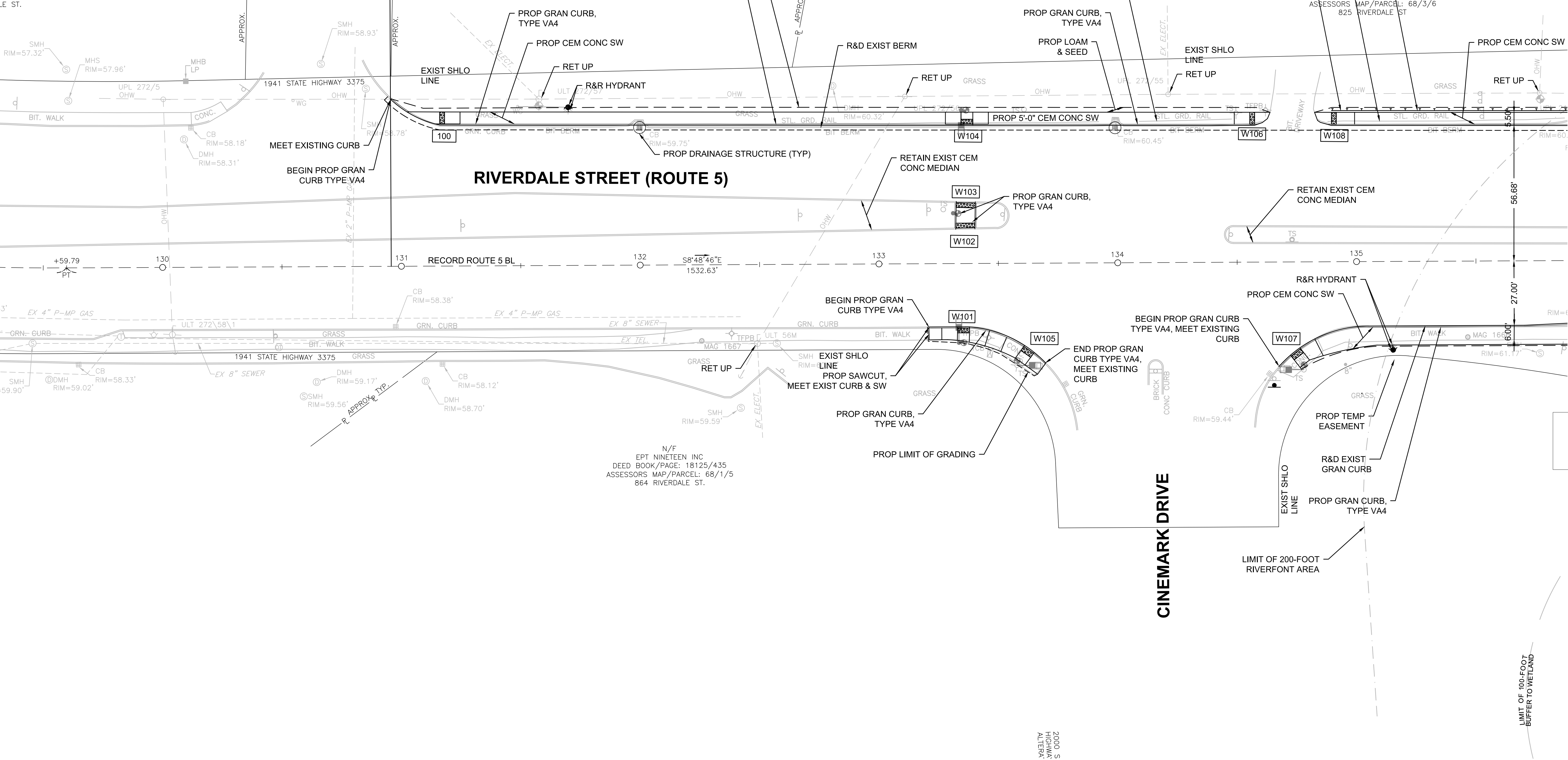
18723/514
RCEL: 68/3/1
LE ST.

N/F
BERTERA FAMILY REALTY LLC
DEED BOOK/PAGE: 20105/157
ASSESSORS MAP/PARCEL: 68/3/5
847 RIVERDALE ST.

PROJECT BEGIN
SIDEWALK CONSTRUCTION
STA 130+95.75
N 2873498.4906
E 350625.5296

N/F
TOWN OF WEST SPRINGFIELD
ASSESSORS MAP/PARCEL: 68/3/6
825 RIVERDALE ST

N/F
TOWN OF WEST SPRINGFIELD
ASSESSORS MAP/PARCEL: 68/3/6
825 RIVERDALE ST



HIGHWAY GUARD DETAILS

GUARDRAIL TL-2 (SINGLE FACED)
GUARDRAIL TANGENT END TREATMENT TL-2

STA 135+27 TO STA 135+81 LT
STA 135+81 TO STA 136+19 LT

TRAFFIC SIGNAL CONDUIT

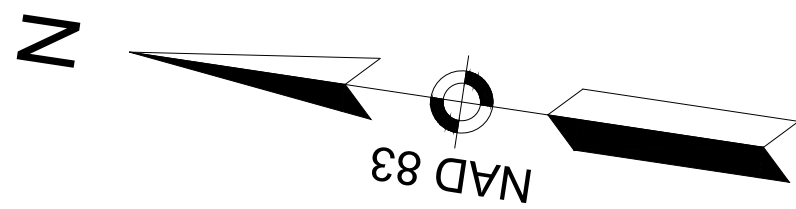
SEE SHEETS 126 & 128

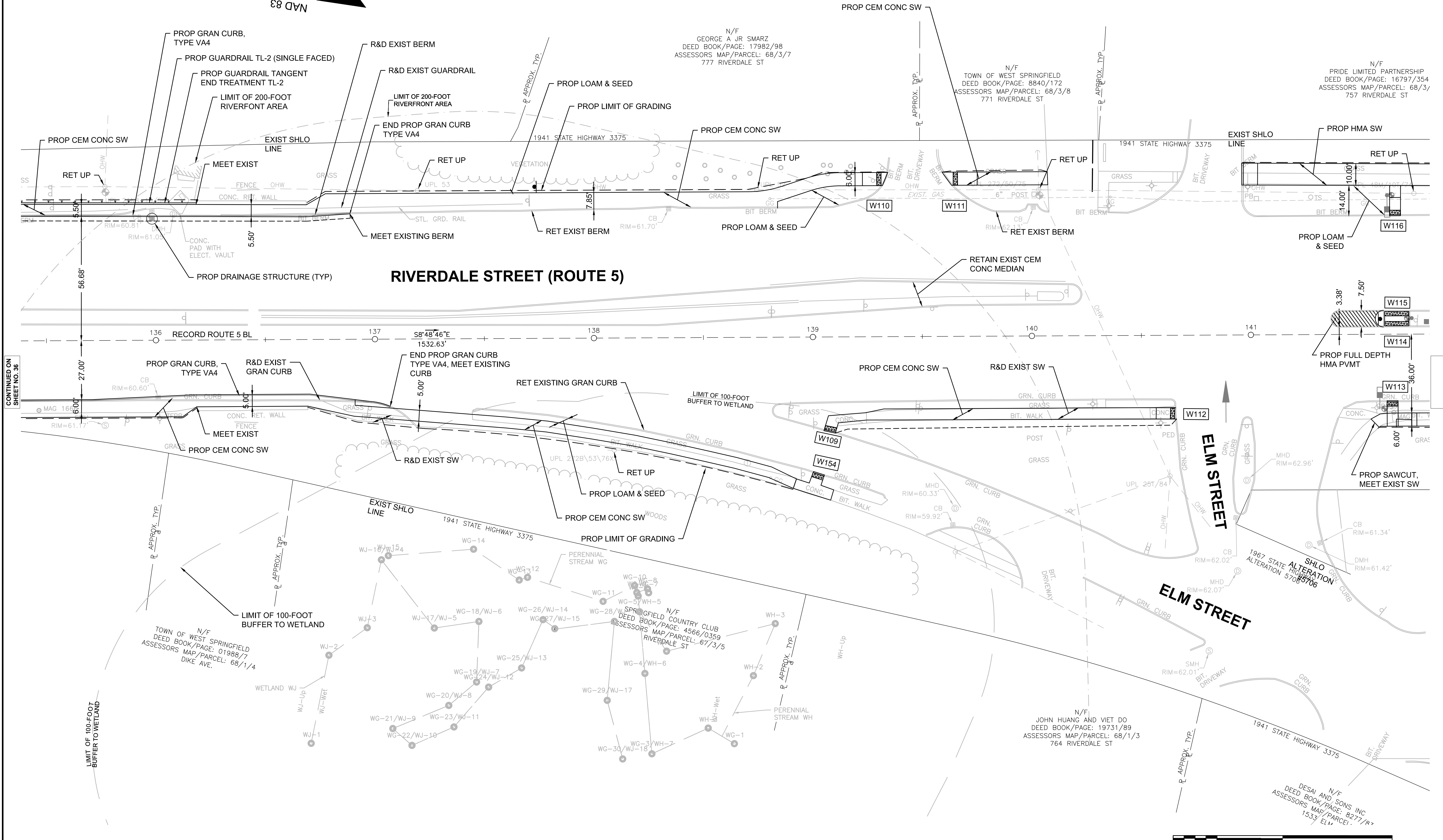
WATER SUPPLY ALTERATIONS

SEE SHEET 69

DRAINAGE DETAILS

SEE SHEET 69





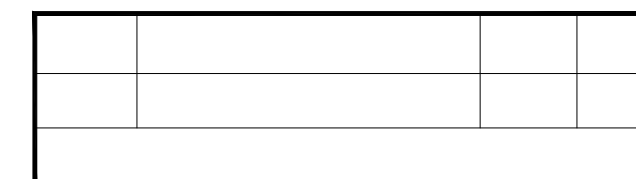
CONTINUED ON
SHEET NO. 36

NONE

SFF SHEET 128

SEE SHEET 70

SEE SHEET 70

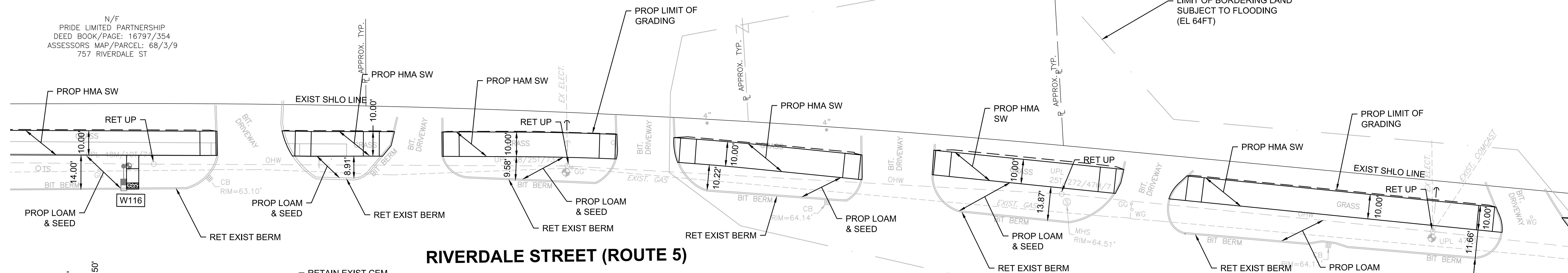


N/F
83 WORTHEN STREET INC
DEED BOOK/PAGE: 10350/552
ASSESSORS MAP/PARCEL: 68/3/11
651 RIVERDALE ST

N/F
635 RIVERDALE STREET LLC
DEED BOOK/PAGE: 16165/348
ASSESSORS MAP/PARCEL: 77/3/1
635 RIVERDALE ST

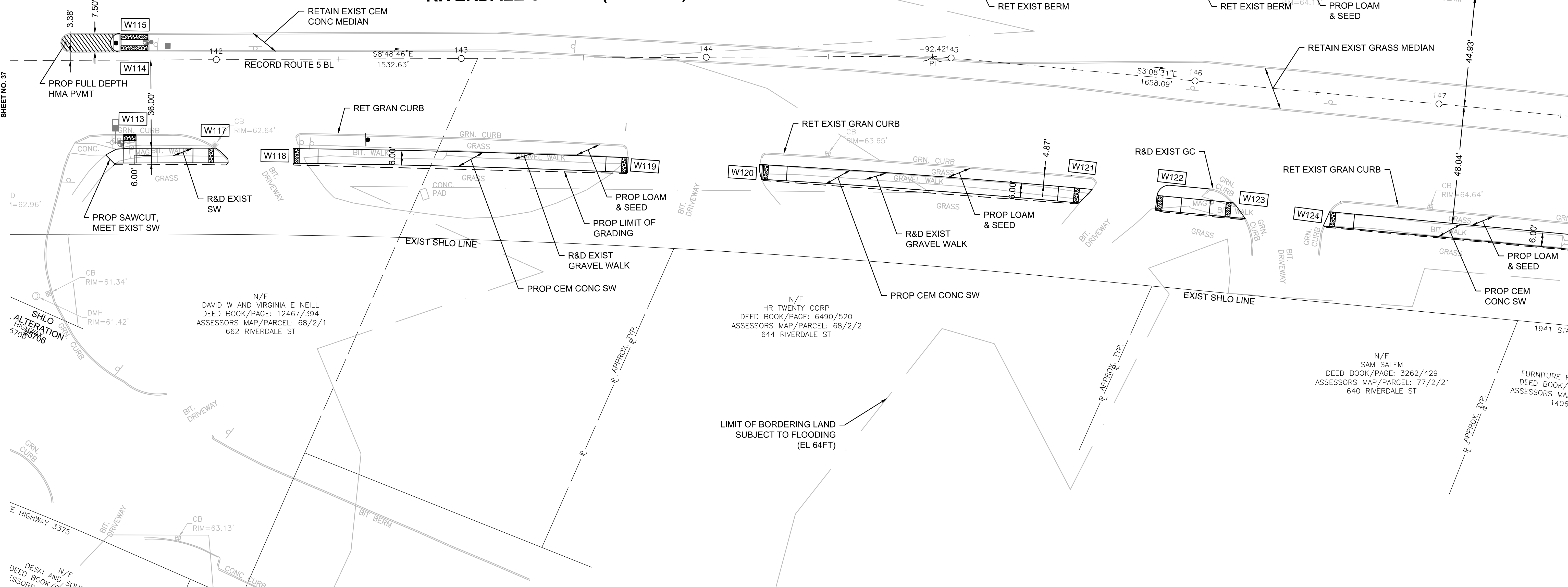
— LIMIT OF BORDERING LAND
SUBJECT TO FLOODING
(EL 64FT)

N/F
PRIDE LIMITED PARTNERSHIP
DEED BOOK/PAGE: 16797/354
ASSESSORS MAP/PARCEL: 68/3/9
757 RIVERDALE ST



RIVERDALE STREET (ROUTE 5)

CONTINUED ON
SHEET NO. 37

LIMIT OF BORDERING LAND
SUBJECT TO FLOODING
(EL 64FT)

FURNITURE E
DEED BOOK/
ASSESSORS MA
1406



HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

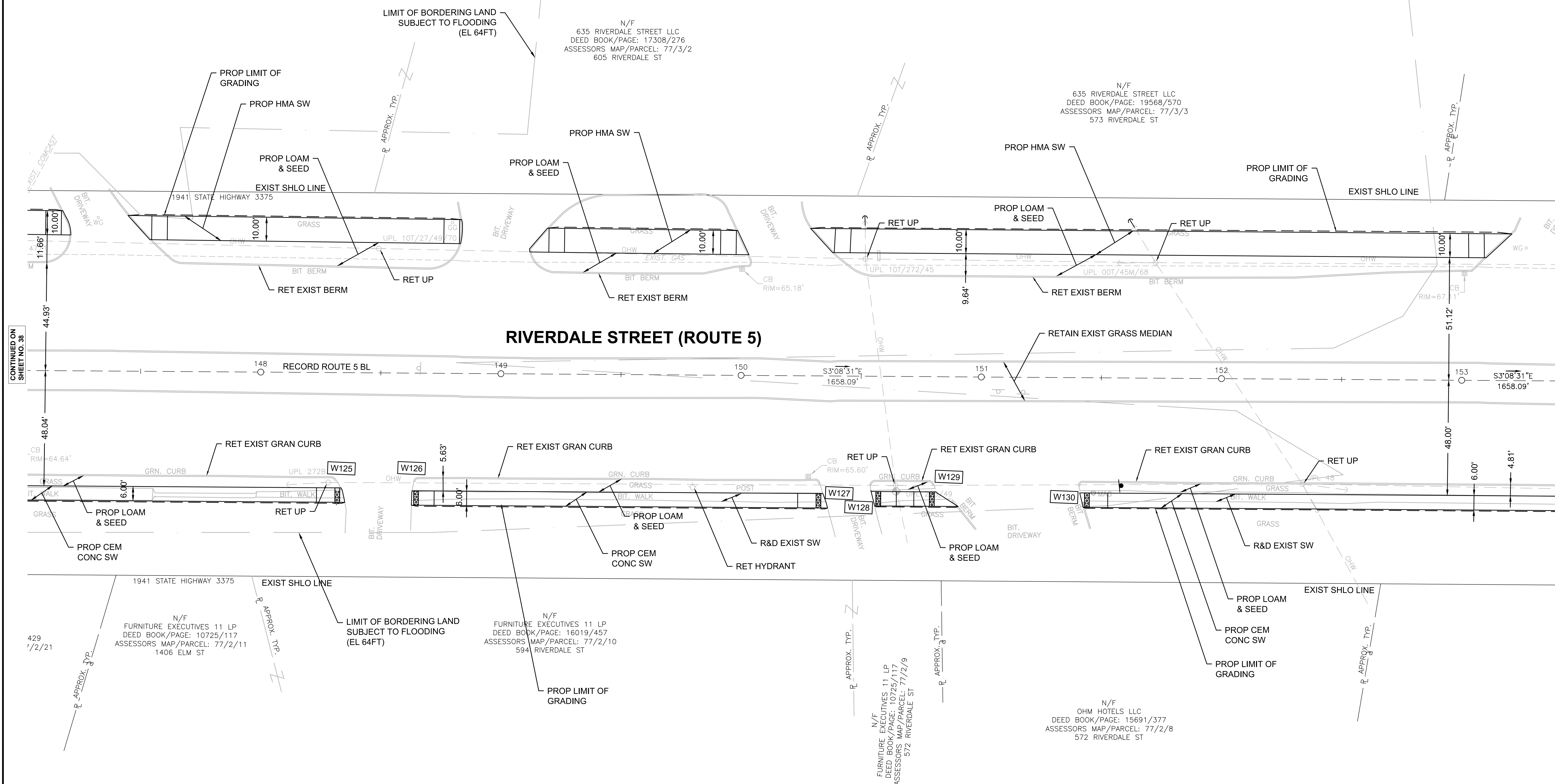
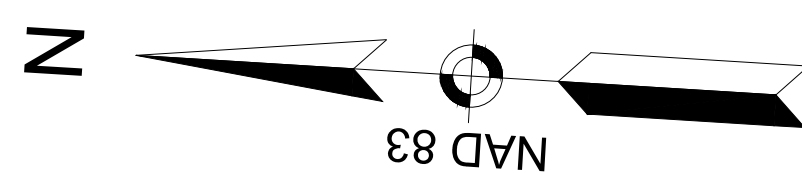
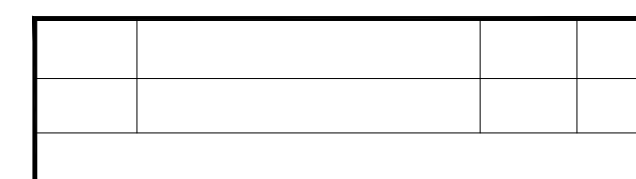
NONE

WATER SUPPLY ALTERATIONS

SEE SHEET 71

DRAINAGE DETAILS

SEE SHEET 71



HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

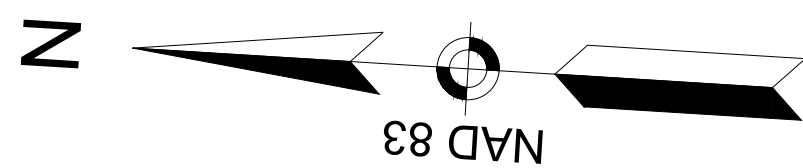
NONE

WATER SUPPLY ALTERATIONS

SEE SHEET 72

DRAINAGE DETAILS

SEE SHEET 72



N/F
BERTERA FAMILY REALTY LLC
DEED BOOK/PAGE: 20105/157
ASSESSORS MAP/PARCEL: 77/3/4
519 RIVERDALE ST

N/F
BERTERA FAMILY REALTY LLC
DEED BOOK/PAGE: 20105/157
ASSESSORS MAP/PARCEL: 77/3/6
499 RIVERDALE ST

N/F
BERTERA FAMILY REALTY LLC
DEED BOOK/PAGE: 20105/157
ASSESSORS MAP/PARCEL: 77/3/45
519 RIVERDALE ST

N/F
BERTERA FAMILY REALTY LLC
DEED BOOK/PAGE: 20105/157
ASSESSORS MAP/PARCEL: 77/2/6
526 RIVERDALE ST

N/F
DOTY RIVER LLC
DEED BOOK/PAGE: 19824/72
ASSESSORS MAP/PARCEL: 77/2/5
500 RIVERDALE ST

N/F
NEALKANTH CORP
DEED BOOK/PAGE: 17593/554
ASSESSORS MAP/PARCEL: 77/2/7
560 RIVERDALE ST

N/F
ELM EAST OFFICE CONDOMINIUM INC
DEED BOOK/PAGE: 2490/189
ASSESSORS MAP/PARCEL: 77/2/16
1284 ELM ST

CONTINUED ON
SHEET NO. 39

RIVERDALE STREET (ROUTE 5)



HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

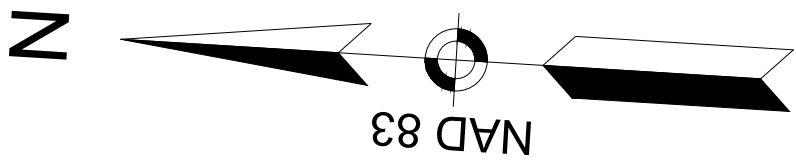
NONE

WATER SUPPLY ALTERATIONS

SEE SHEET 73

DRAINAGE DETAILS

SEE SHEET 73



N/F
BERTERA FAMILY REALTY LLC
DEED BOOK/PAGE: 20105/157
ASSESSORS MAP/PARCEL: 77/3/6
499 RIVERDALE ST

N/F
JOHN P. BARTOLUCCI
DEED BOOK/PAGE: 7591/67
ASSESSORS MAP/PARCEL: 77/3/7
459 RIVERDALE ST

N/F
WILLIAM F. AND NANCY BOBSKILL
DEED BOOK/PAGE: 18343/137
ASSESSORS MAP/PARCEL: 77/3/10
RIVERDALE ST

N/F
454 RIVERDALE RD LLC
DEED BOOK/PAGE: 11617/262
ASSESSORS MAP/PARCEL: 77/2/4
464 RIVERDALE ST

LARONE AVE.

BOBSKILL DRIVE

RIVERDALE STREET (ROUTE 5)

CONTINUED ON
SHEET NO. 40



HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

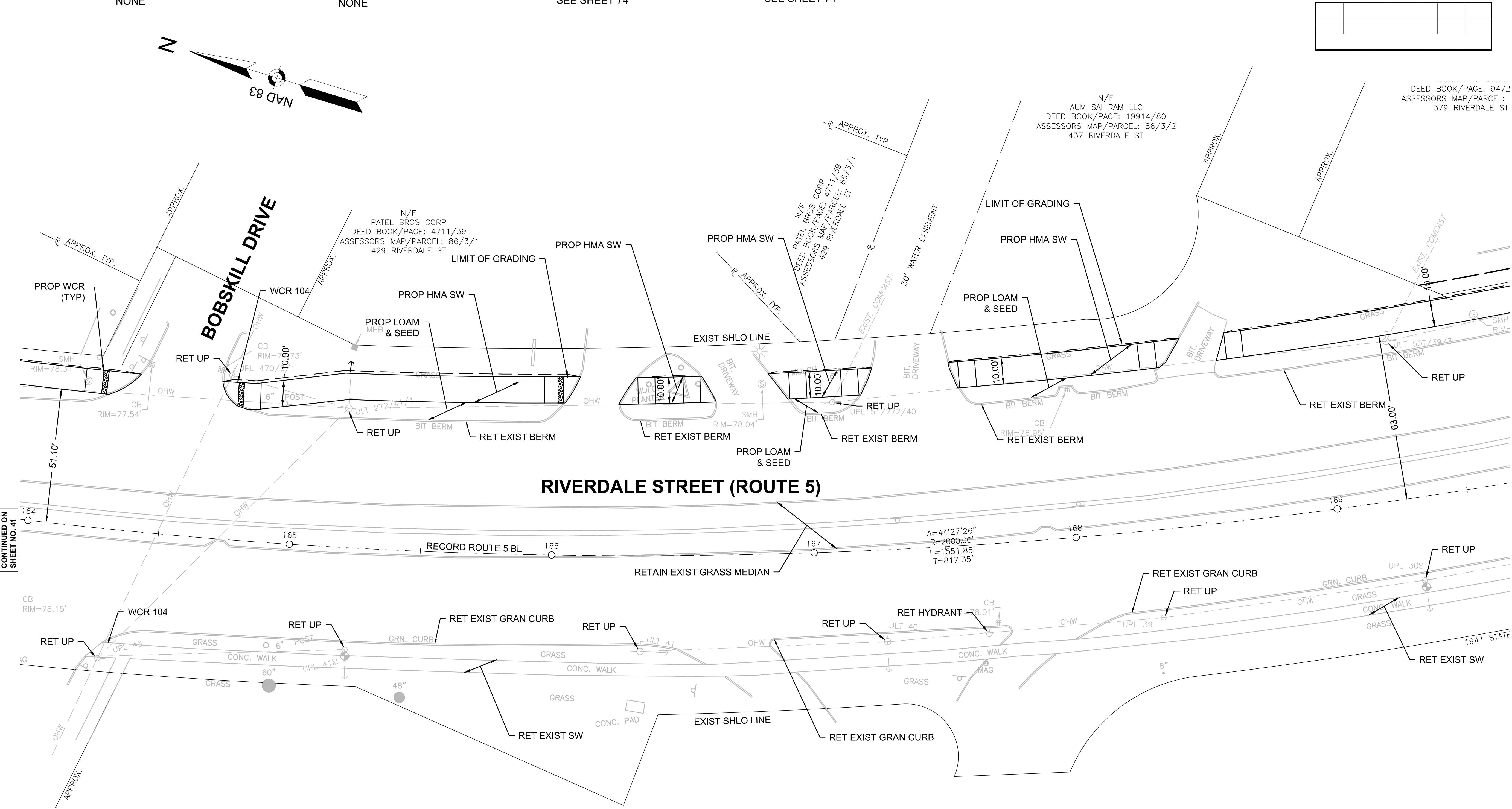
NONE

WATER SUPPLY ALTERATIONS

SEE SHEET 74

DRAINAGE DETAILS

SEE SHEET 74



CONTINUED ON
SHEET NO. 41



DRAINAGE DETAILS

SEE SHEET 75

N/F
MICHAEL R HARTY
DEED BOOK/PAGE: 9472/435
ASSESSORS MAP/PARCEL: 86/3/3
379 RIVERDALE ST

N/F
MICHAEL R HARTY
DEED BOOK/PAGE: 9472/435
ASSESSORS MAP/PARCEL: 86/3/3
379 RIVERDALE ST

TEMPERATURE
EARTH
LIMIT
GRADE
N/F
ARTHUR D JR AND LINDA L MEDEIRO
DEED BOOK/PAGE: 92247/363
ASSESSORS MAP/PARCEL: 86/3/4
RIVERDALE ST

PROP
TEMPORARY
EASEMENT

LIMIT OF GRADING

RIVERDALE STREET (ROUTE 5)

APPROX.
ELDRIDGE AVE.

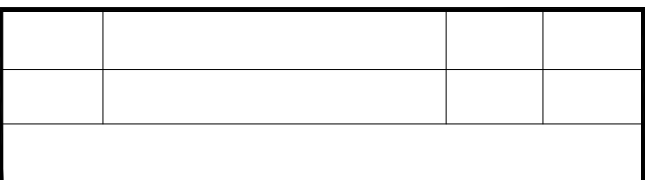
N/F
McDONALDS CORP.
DEED BOOK/PAGE: 4972/183
ASSESSORS MAP/PARCEL: 86/5/10
RIVERDALE ST

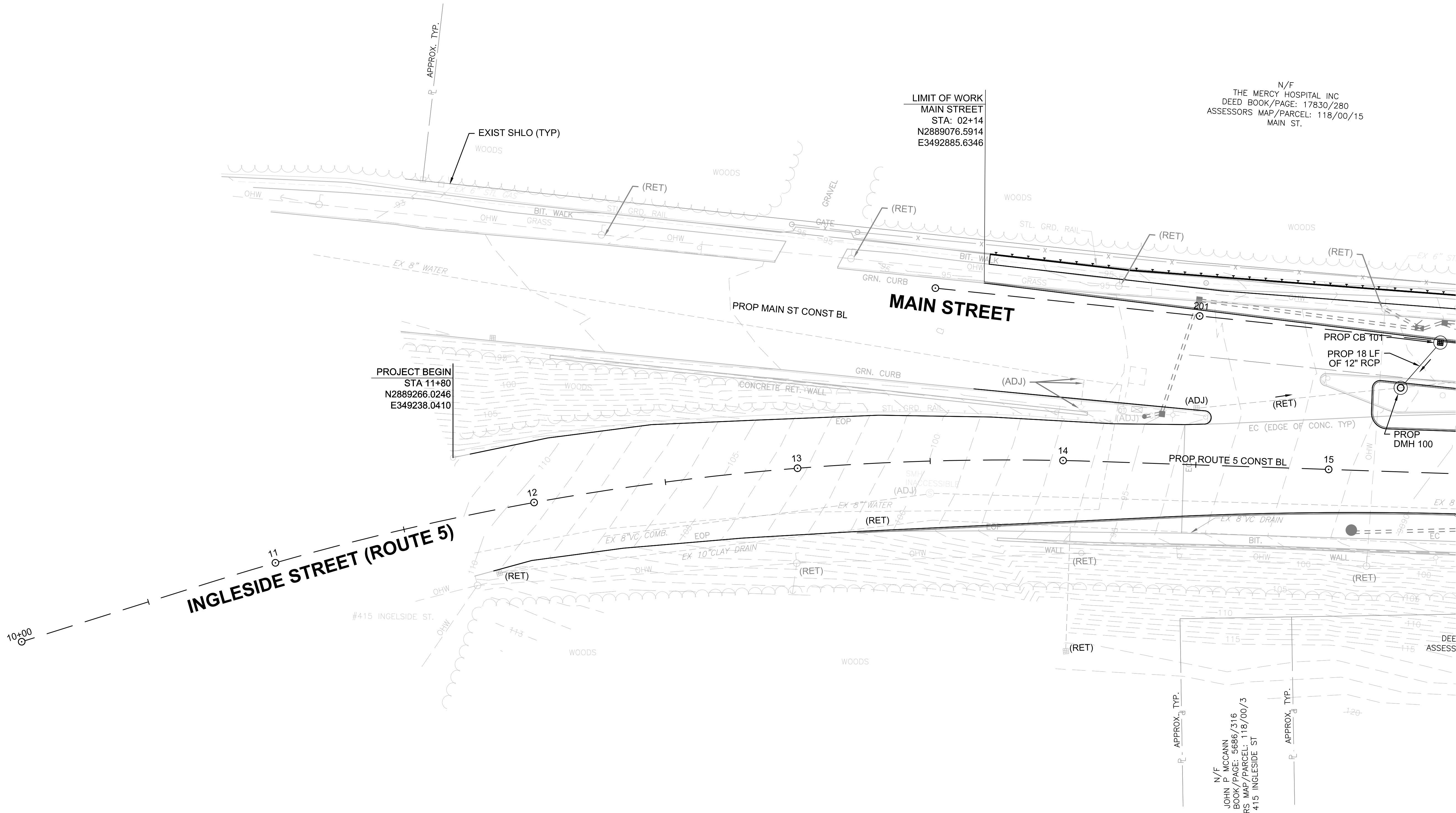
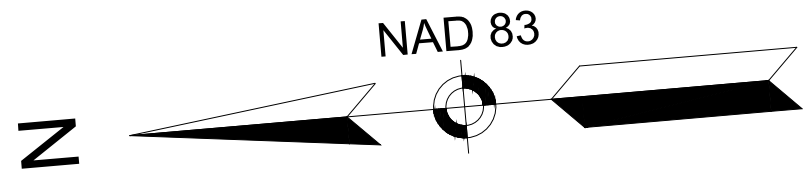
N/F
APPLE RIDGE REALTY LLC
DEED BOOK/PAGE: 17922/414
ASSESSORS MAP/PARCEL: 86/5/9
352 RIVERDALE ST

CONTINUED ON
SHEET NO. 42

DRAINAGE DETAILS

SEE SHEET 76





N/F
THE MERCY HOSPITAL INC.
DEED BOOK/PAGE: 17830/280
ASSESSORS MAP/PARCEL: 118/00/15
MAIN ST.

N/F
JOHN P. MCCANN
DEED BOOK/PAGE: 5686/316
ASSESSORS MAP/PARCEL: 118/00/3
415 INGLESIDE ST

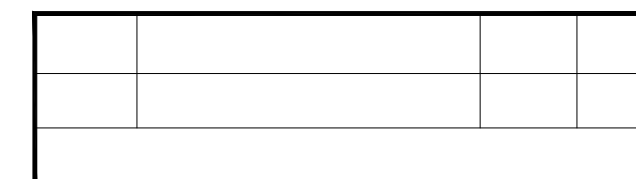


SEE PAGE 14

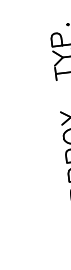
SEE PAGE 112 AND 114

SEE BELOW

SEE BELOW



CONTINUED ON



1. CONTRACTOR SHALL ACCOUNT FOR REMOVAL OF EXISTING CONCRETE SLAB LOCATED OVER PROPOSED DRAINAGE PIPE. AREAS TO BE DENOTED PRIOR TO NEXT SUBMISSION.



HIGHWAY GUARD DETAILS

SEE PAGE 15

TRAFFIC SIGNAL CONDUIT

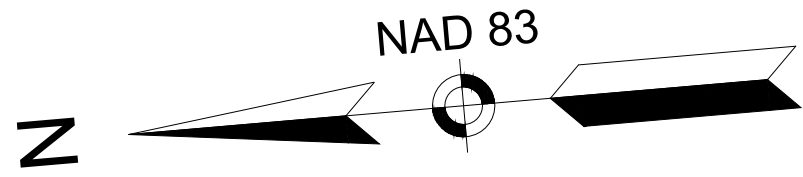
SEE PAGE 114

WATER SUPPLY ALTERATIONS

SEE BELOW

DRAINAGE DETAILS

SEE BELOW



N/F
THE MERCY HOSPITAL INC
DEED BOOK/PAGE: 17830/280
ASSESSORS MAP/PARCEL: 118/00/15
MAIN ST.

DMH 32600
RIM=80.54'
INV. OUT(A)=74.82' 15"RCP
INV. IN(B)=74.93' 12"RCP
INV. IN(C)=74.94' 12"RCP
INV. IN(D)=76.54' 15"RCP

CB 20185
RIM=80.35'
INV. OUT(A)=78.55' 12"RCP

DMH 20186
RIM=80.51'
INV. OUT(A)=77.01' 12"RCP
INV. IN(B)=78.41' 12"RCP

SMH 2111
RIM=79.44'
INV. OUT(A)=64.24' 24"CLAY
INV. IN(B)=64.42' 18"CLAY

SMH 2110
RIM=77.67'
INV. IN(B)=63.12'

SMH 2340
RIM=86.97'
INV. OUT(A)=74.86' 18"CLAY
INV. IN(B)=75.03' 12"CLAY
INV. IN(C)=76.21' 10" PVC
INV. IN(D)=75.06' 12"CLAY

CB 2307
RIM=80.37'
INV. OUT(A)=76.07' 12"RCP
INV. IN(B)=76.97' 12"RCP
INV. IN(C)=77.05' 12"RCP
INV. IN(D)=76.41' 12"RCP

CB 2308
RIM=84.33'
INV. OUT(A)=81.90' 12"RCP

SMH 2242
RIM=82.19'
INV. OUT(A)=74.43' 24"CLAY
INV. IN(B)=74.27' 24"CLAY
INV. IN(C)=77.94' 12"CLAY
INV. IN(D)=77.29' 12"RCP

CB 2237
RIM=78.94'
INV. OUT(A)=74.22' 12"RCP
INV. IN(B)=74.54' 10"RCP
INV. IN(C)=74.70' 8"RCP

SMH 2241
RIM=81.21'
TOP OF DEBRIS= 77.78'

CB 20008
RIM=77.75'
INV. OUT(A)=75.07' 12"RCP

CB 20021
RIM=79.04'
INV. OUT(A)=75.20' 12"RCP

CB 20351
RIM=77.97'
INV. OUT(A)=73.07' 12"RCP
INV. IN(B)=73.65' 8"RCP

1671 MASSDOT
N: 2888119.020
E: 349890.917
EL: 84.111
IRON ROD

HOSPITAL ENTRANCE ROAD

MAIN STREET (ROUTE 5)

BRIGHTSIDE DRIVE

CONTINUED ON
SHEET NO. 46

N/F
R/E PROPERTY, LLC
/PAGE: 20520/198
AP/PARCEL: 118/00/5
R WESTFIELD RD.

NOTES:

- CONTRACTOR SHALL CONNECT EXISTING 6" VCP UNDERDRAIN TO PROPOSED STRUCTURE.
- CONTRACTOR SHALL ACCOUNT FOR REMOVAL OF EXISTING CONCRETE SLAB LOCATED OVER PROPOSED DRAINAGE PIPE. AREAS TO BE DENOTED PRIOR TO NEXT SUBMISSION.

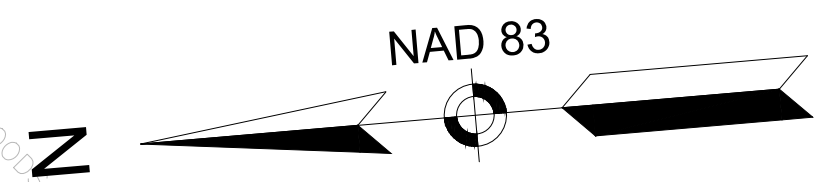


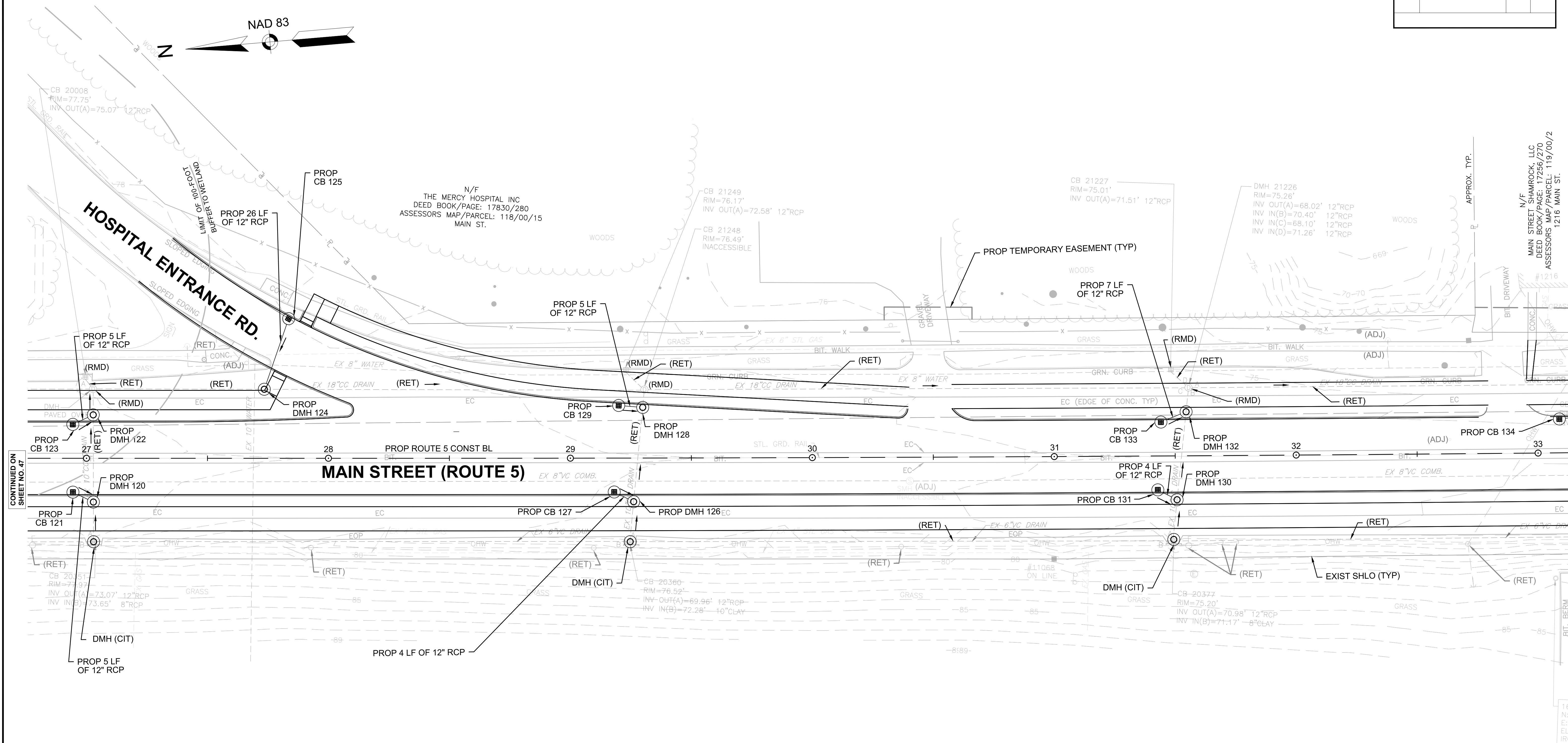
SEE PAGE 16

NONE

SEE BELOW

SEE BELOW





1. CONTRACTOR SHALL ACCOUNT FOR REMOVAL OF EXISTING CONCRETE SLAB LOCATED OVER PROPOSED DRAINAGE PIPE. AREAS TO BE DENOTED PRIOR TO NEXT SUBMISSION.



HIGHWAY GUARD DETAILS

SEE PAGE 17

TRAFFIC SIGNAL CONDUIT

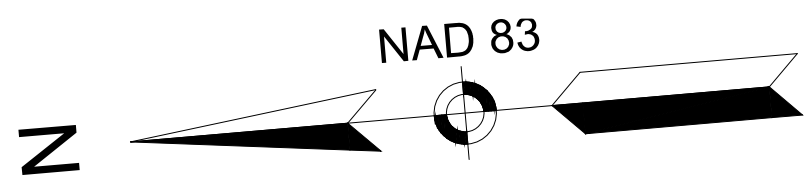
SEE PAGE 116

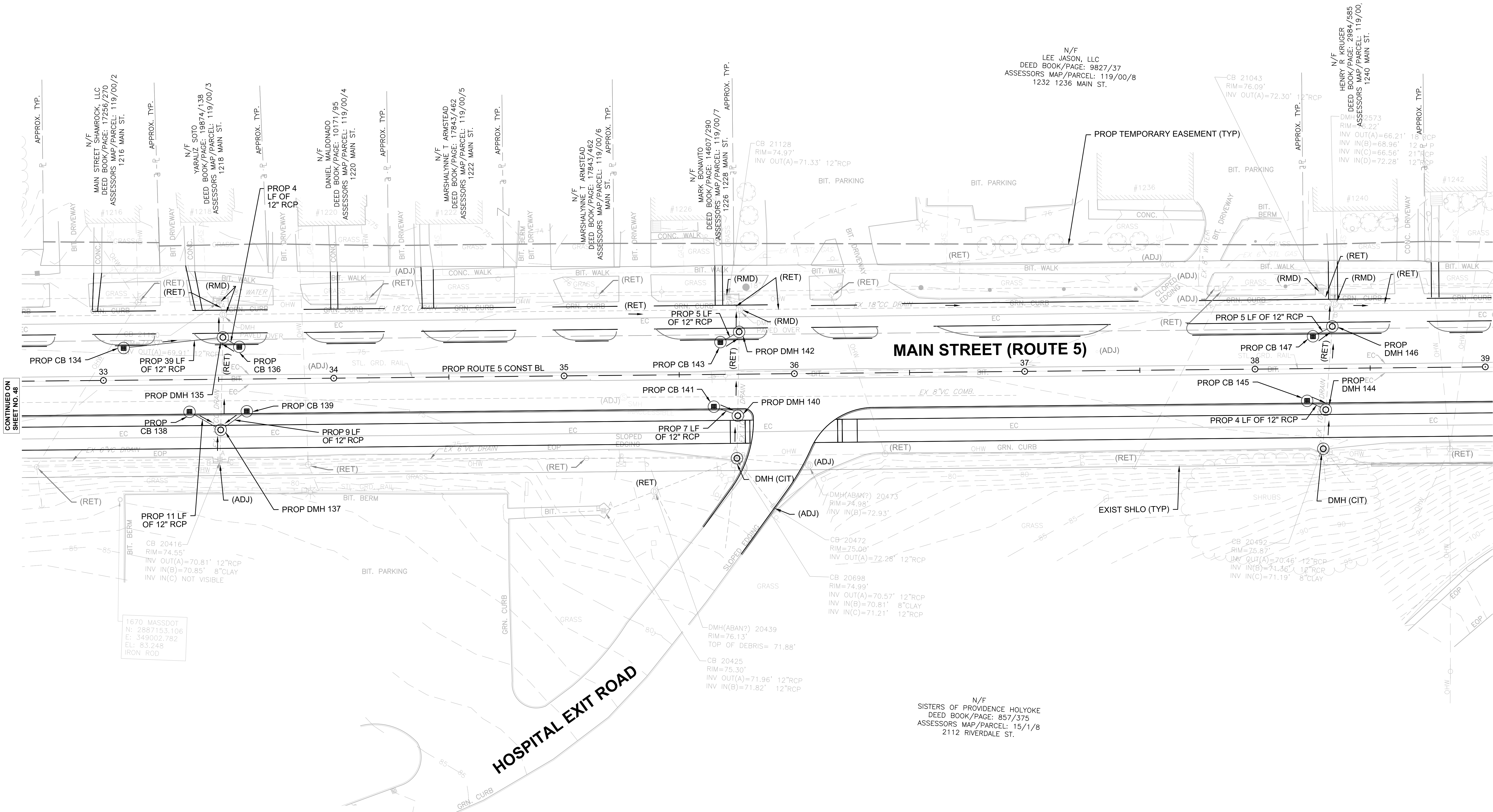
WATER SUPPLY ALTERATIONS

SEE BELOW

DRAINAGE DETAILS

SEE BELOW





NOTES:

- CONTRACTOR SHALL ACCOUNT FOR REMOVAL OF EXISTING CONCRETE SLAB LOCATED OVER PROPOSED DRAINAGE PIPE. AREAS TO BE DENOTED PRIOR TO NEXT SUBMISSION.



HIGHWAY GUARD DETAILS

SEE PAGE 18

TRAFFIC SIGNAL CONDUIT

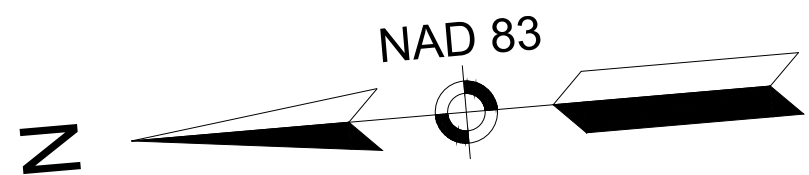
SEE PAGE 116

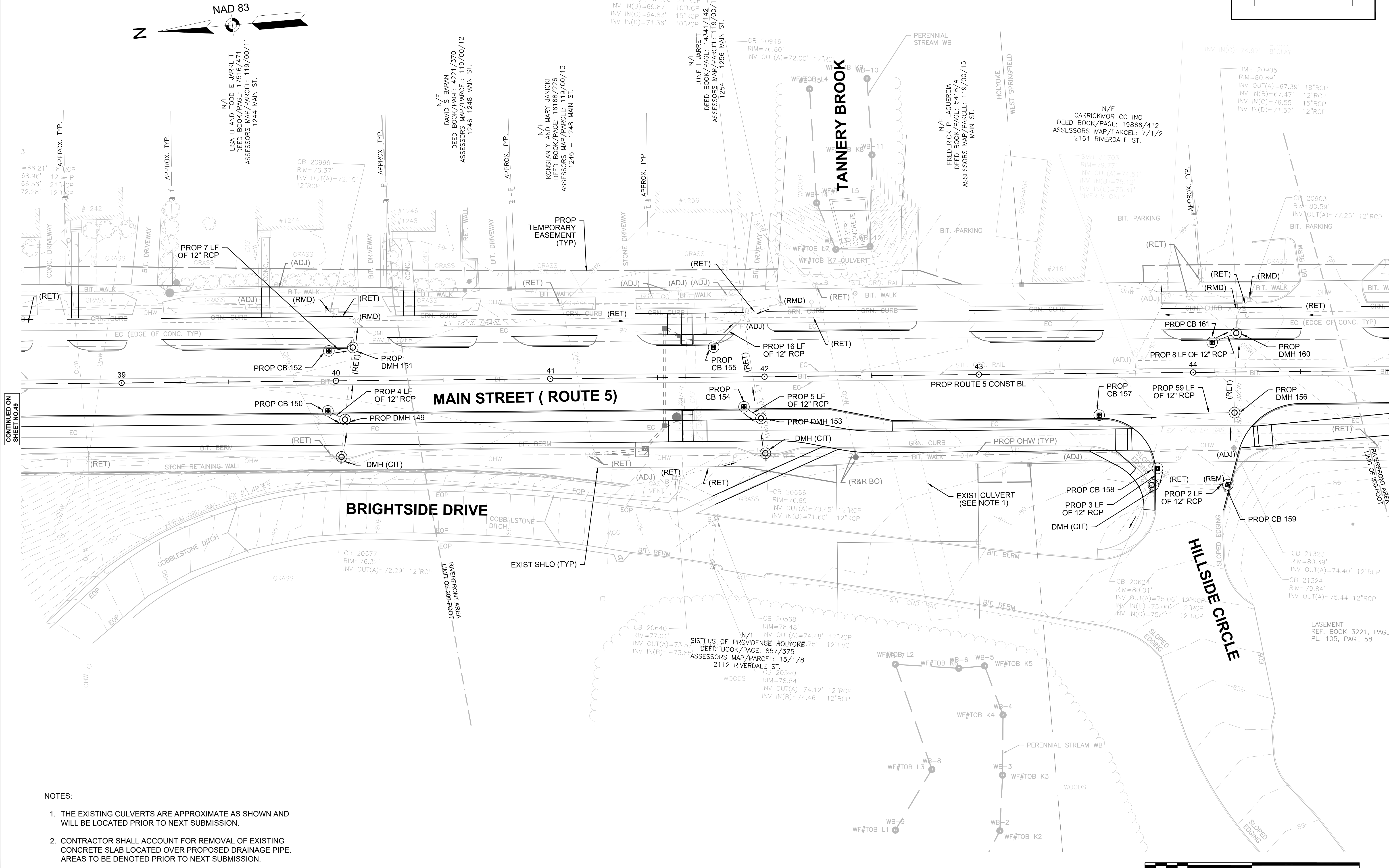
WATER SUPPLY ALTERATIONS

SEE BELOW

DRAINAGE DETAILS

SEE BELOW





NOTES:

1. THE EXISTING CULVERTS ARE APPROXIMATE AS SHOWN AND WILL BE LOCATED PRIOR TO NEXT SUBMISSION.
2. CONTRACTOR SHALL ACCOUNT FOR REMOVAL OF EXISTING CONCRETE SLAB LOCATED OVER PROPOSED DRAINAGE PIPE. AREAS TO BE DENOTED PRIOR TO NEXT SUBMISSION.

HIGHWAY GUARD DETAILS

SEE PAGE 19

TRAFFIC SIGNAL CONDUIT

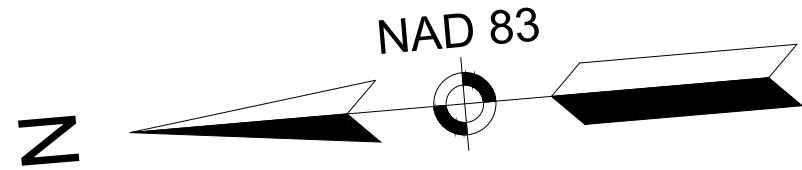
SEE PAGE 116

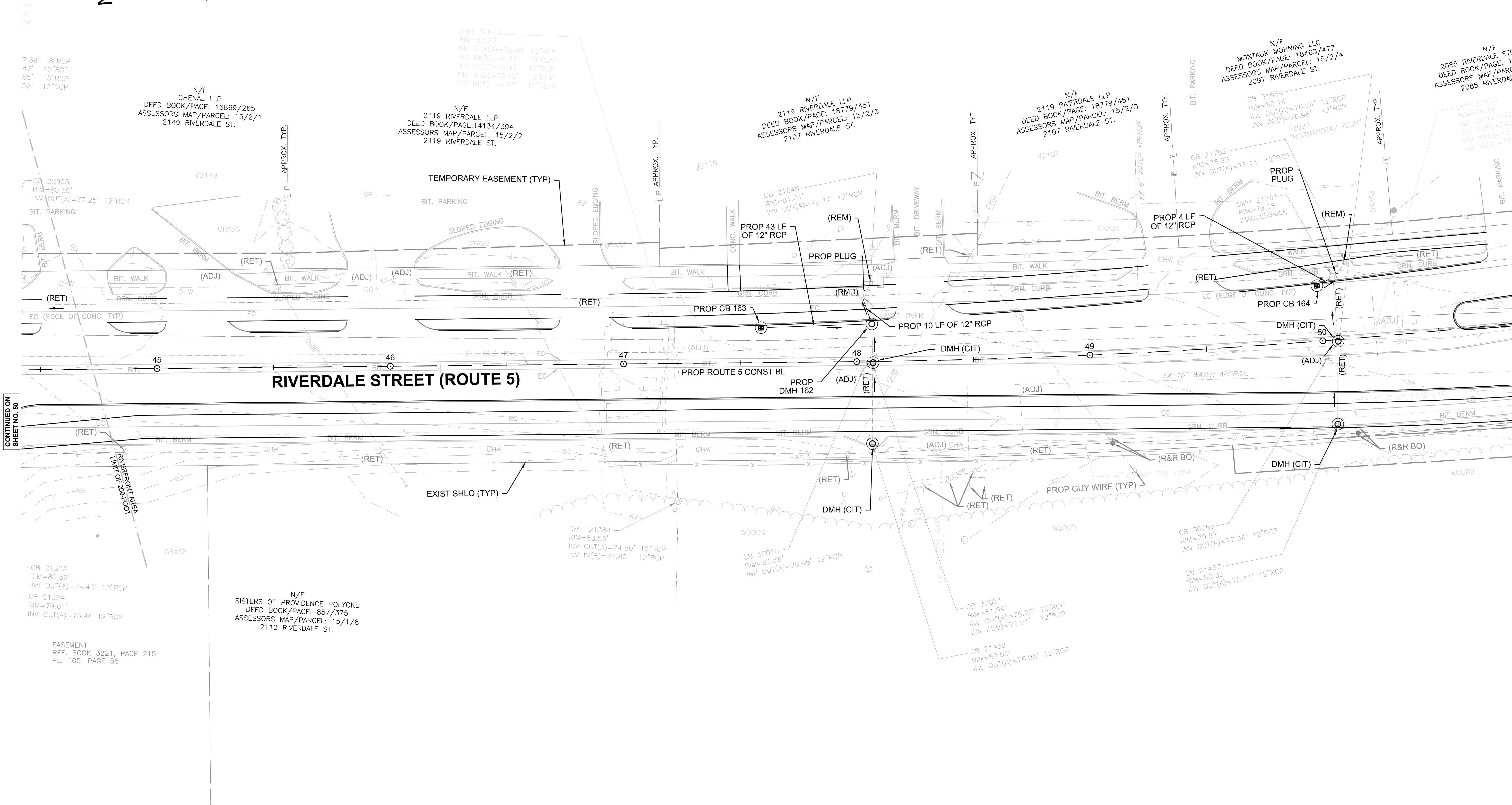
WATER SUPPLY ALTERATIONS

SEE BELOW

DRAINAGE DETAILS

SEE BELOW





NOTES:

1. CONTRACTOR SHALL ACCOUNT FOR REMOVAL OF EXISTING CONCRETE SLAB LOCATED OVER PROPOSED DRAINAGE PIPE. AREAS TO BE DENOTED PRIOR TO NEXT SUBMISSION.



HIGHWAY GUARD DETAILS

SEE PAGE 21

TRAFFIC SIGNAL CONDUIT

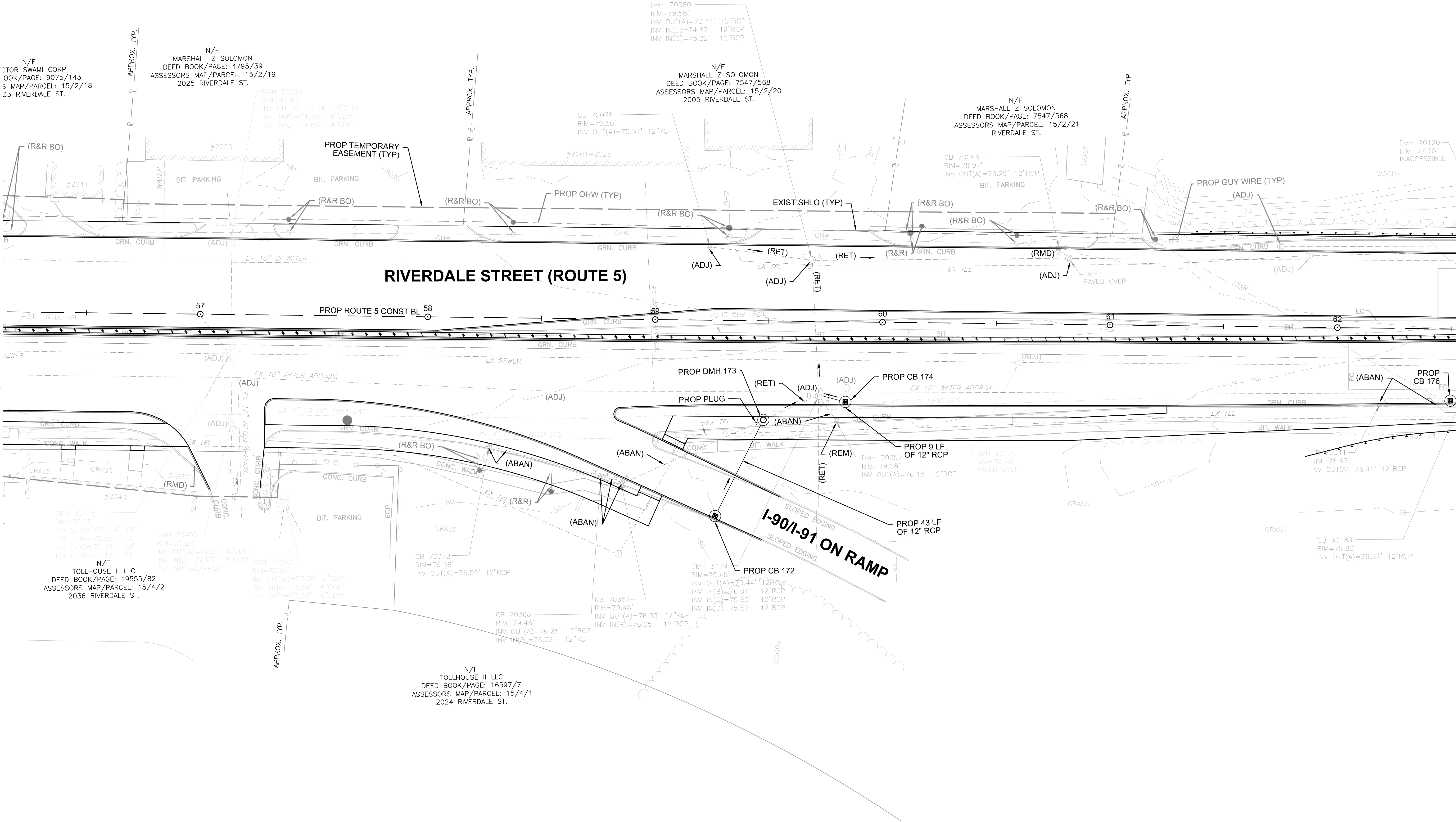
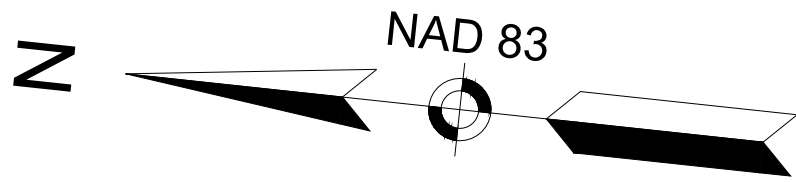
SEE PAGE 117

WATER SUPPLY ALTERATIONS

SEE BELOW

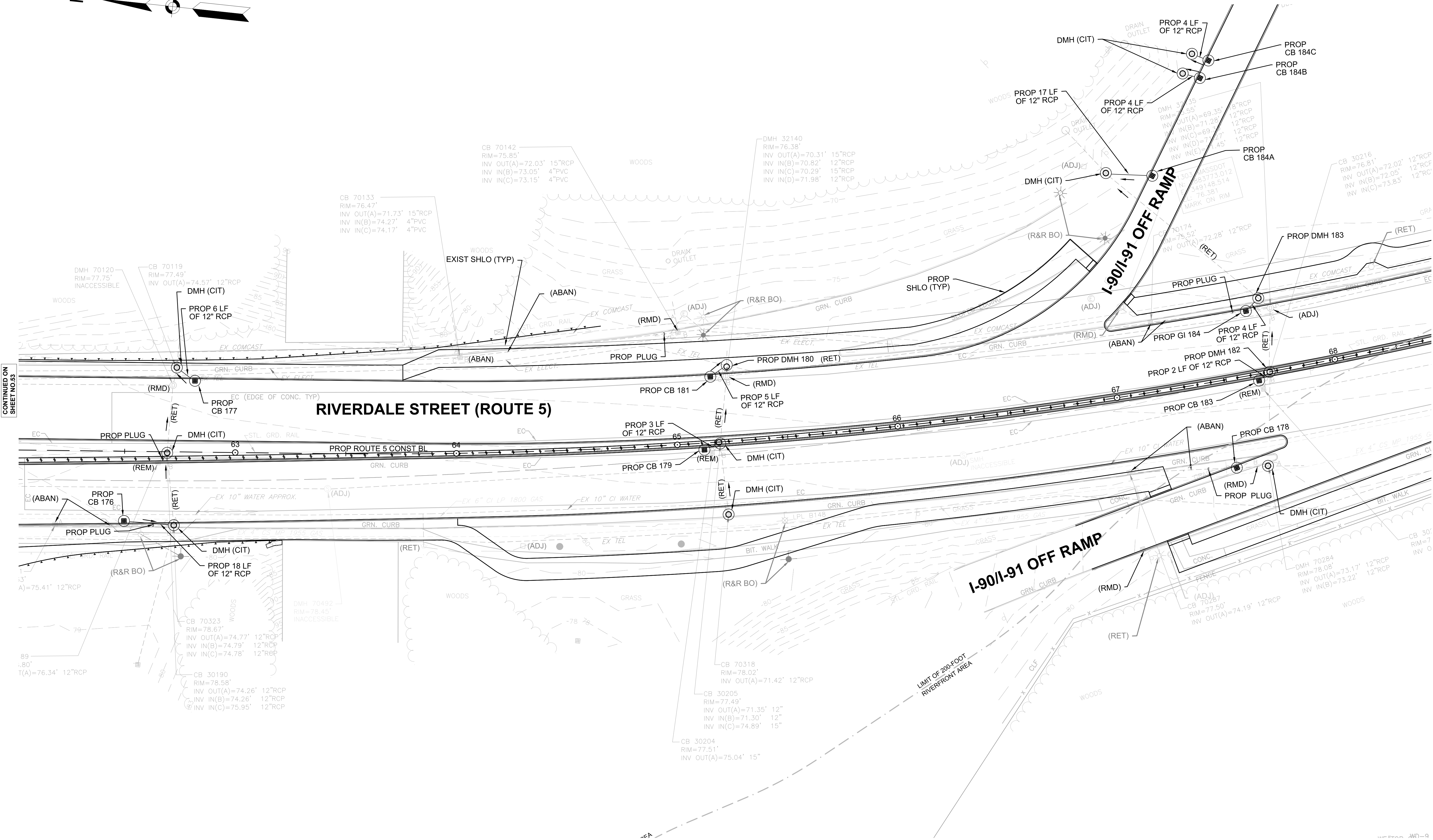
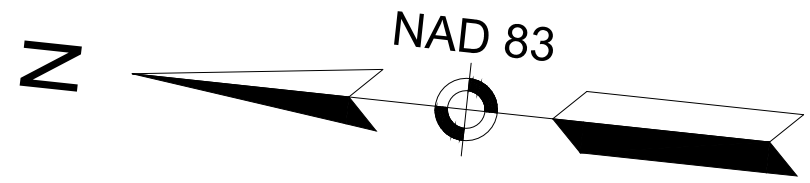
DRAINAGE DETAILS

SEE BELOW



CONTINUED ON
SHEET NO. 52





CONTINUED ON
SHEET NO. 63

SEE PAGE 23

NONE

SEE BELOW

SEE BELOW

