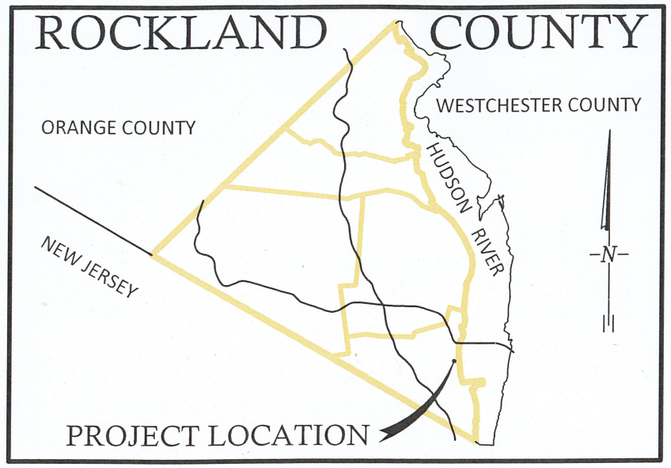


ROCKLAND COUNTY
HIGHWAY DEPARTMENT
RECONSTRUCTION OF RIVER ROAD (C.R. 1)
TOWN OF ORANGETOWN
COUNTY OF ROCKLAND
STATE OF NEW YORK

R.C.H.D. PROJECT NO. 3269

D024657 PIN NO. 8755.22 FEDERAL AID PROJECT

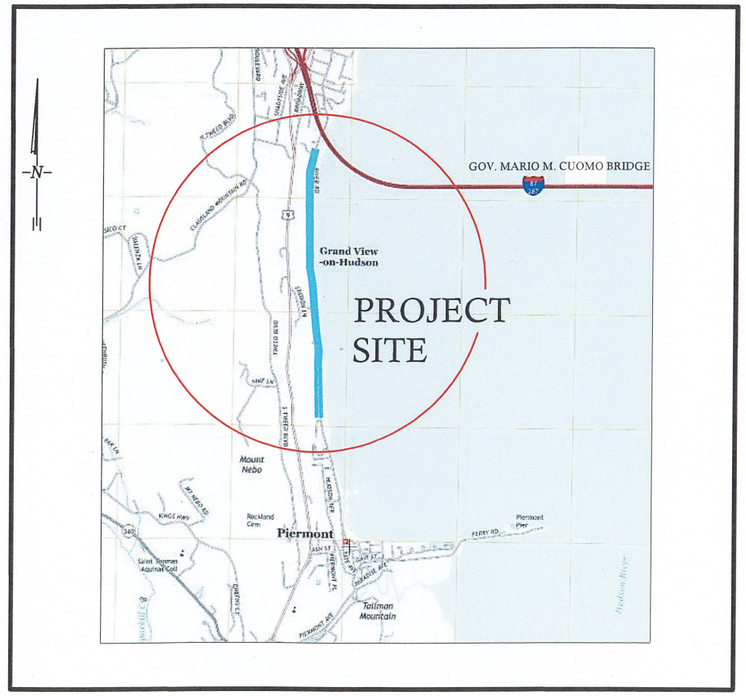
LOCATED IN THE VILLAGE OF GRANDVIEW-ON-HUDSON
BEGINNING AT STEVENSON STREET AND ENDING AT THE
GOV. MARIO M. CUOMO BRIDGE BEING 1.7 MILES IN LENGTH

INDEX OF SHEETS

SHEET NO.	DRWG. NO.	DESCRIPTION
1	-	TITLE SHEET
2	IND - 01	INDEX AND ABBREVIATIONS
3	LEG - 01	LEGEND LINES
4-5	TYP - 01-02	TYPICAL SECTIONS
6	GNN - 01	GENERAL NOTES
7	WZTC - 01	WORK ZONE TRAFFIC CONTROL NOTES
8	WZTC - 02	WORK ZONE TRAFFIC CONTROL PLAN
9	BLT - 01	BASELINE TIES AND BENCHMARKS
10-11	ALG - 01-02	ALIGNMENT PLAN
12-17	MST - 01-06	MISCELLANEOUS TABLES
18-20	MD - 01-03	MISCELLANEOUS DETAILS
21-23	DRT - 01-03	DRIVEWAY TABLES
24-39	PLN - 01-16	PLANS
40-55	PRO - 01-16	PROFILE
56-71	DRN - 01-16	DRAINAGE PLANS
72-81	DST - 01-10	DRAINAGE TABLES
82-83	DD - 01-02	DRAINAGE DETAILS
84-85	DOF - 01-02	DRAINAGE OUTFALL DETAILS
86-101	SPM - 01-16	SIGN AND PAVEMENT MARKINGS
102	EQ - 01	ESTIMATE OF QUANTITIES
103	ESS - 01	EARTHWORK SUMMARY SHEET
104	ESS - 02	EARTHWORK SUMMARY SHEET

UTILITIES IN PROJECT LIMITS

COMPANY
ORANGE & ROCKLAND : ELECTRIC AND GAS
SUEZ-NA : WATER MAIN AND HYDRANTS
VERIZON : TELEPHONE
TIME WARNER : CABLE TELEVISION



PROJECT LOCATION MAP
NO SCALE

STANDARD SPECIFICATION

THE LATEST REVISIONS OF THE STANDARD SHEETS MAINTAINED BY NYSDOT, WHICH ARE CURRENT ON THE DATE OF ADVERTISEMENT FOR BIDS, SHALL BE CONSIDERED TO BE IN EFFECT. ALL PAY ITEMS AND WORK CONTAINED IN THE CONTRACT AND ANY ADDITIONAL PAY ITEMS AND WORK ENCOUNTERED DURING THE COURSE OF THE CONTRACT SHALL BE SUBJECT TO THE APPLICABLE STANDARD SHEET(S) UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, WITH CURRENT MODIFICATIONS EXCEPT AS MODIFIED ON THESE PLANS AND IN THE ITEMIZED PROPOSAL.

MAINTENANCE JURISDICTION

UPON COMPLETION AND ACCEPTANCE OF THE PROJECT BY THE ROCKLAND COUNTY, THE COUNTY WILL MAINTAIN AND KEEP IN REPAIR ALL THE GROUNDS WITHIN THE PROJECT LIMITS AND ALL CONSTRUCTED AND INSTALLED ELEMENTS WITHIN THE PROJECT LIMITS, WITH THE EXCEPTION OF SIDEWALKS THAT ARE MAINTAINED BY THE VILLAGE OF GRANDVIEW-ON-HUDSON. THE UTILITY COMPANIES WILL MAINTAIN THEIR RESPECTIVE SERVICE FACILITIES, SEE GENERAL NOTES DRAWING.

RECOMMENDED BY:

Alfred Carnevale — 3/9/21

ALFRED CARNEVALE, P.E. — DATE

ROCKLAND COUNTY HIGHWAY DEPARTMENT

PREPARED BY:

3/30/21

JAMES F. MORRISSEY, P.E. — DATE

C & S ENGINEERS, INC.

STATE OF NEW YORK — JAMES F. MORRISSEY — 078410 — LICENSED PROFESSIONAL ENGINEER

ROCKLAND COUNTY SEAL

C&S COMPANIES®

APPROVED BY:

3/9/21

CHARLES H. VEZZETTI — DATE

SUPERINTENDENT OF HIGHWAYS

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ALIGNMENT

ABBR.	DESCRIPTION
AH	AHEAD
AZ	AZIMUTH
BK	BACK
℄	BASELINE
BRG	BEARING
℄	CENTERLINE
CS	CURVE TO SPIRAL
e	SUPERELEVATION RATE (CROSS SLOPE)
EQ	EQUALITY
EXT	EXTERNAL
HCL	HORIZONTAL CONTROL LINE
HSD	HEADLIGHT SIGHT DISTANCE
L	LENGTH OF CIRCULAR CURVE
LS	LENGTH OF SPIRAL
LVC	LENGTH OF VERTICAL CURVE
E	CENTER CORRECTION OF VERTICAL CURVE
ℳ	MAIN LINE
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
POL	POINT ON LINE
PSD	PASSING SIGHT DISTANCE
PT	POINT OF TANGENT
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENT
R	RADIUS
SC	SPIRAL TO CURVE
SSD	STOPPING SIGHT DISTANCE
ST	SPIRAL TO TANGENT
STA	STATION
T	TANGENT LENGTH
TGL	THEORETICAL GRADE LINE
TS	TANGENT TO SPIRAL
VC	VERTICAL CURVE

TOPOGRAPHY (DRAINAGE)

ABBR.	DESCRIPTION
BB	BOTTOM OF BANK (STREAM)
BC	BOTTOM OF CURB
BO	BOTTOM OF OPENING
CAP	CORRUGATED ALUMINUM PIPE
CB	CATCH BASIN
CIP	CAST IRON PIPE
℄ STRM	CENTERLINE OF STREAM
CMP	CORRUGATED METAL PIPE
CP	CONCRETE PIPE
CSP	CORRUGATED STEEL PIPE
CULV	CULVERT
DIA	DIAMETER
DMH	DRAINAGE MANHOLE
DS	DRAINAGE STRUCTURE
D'XING	DITCH CROSSING
EHW	EXTREME HIGH WATER
EL	ELEVATION
ELEV	ELEVATION
ELW	EXTREME LOW WATER
ES	END SECTION
HW	HEADWALL
INV	INVERT
MH	MANHOLE
MHW	MEAN HIGH WATER
OHW	ORDINARY HIGH WATER
OLW	ORDINARY LOW WATER
RCP	REINFORCED CONCRETE PIPE
SICPP	SMOOTH INTERIOR CORRUGATED POLYETHYLINE PIPE
TB	TOP OF BANK (STREAM)
TC	TOP OF CURB
TG	TOP OF GRATE
VCP	VITRIFIED CLAY PIPE

TOPOGRAPHY (MISCELLANEOUS)

ABBR.	DESCRIPTION
ABUT	ABUTMENT
AOBE	AS ORDERED BY ENGINEER
ASPH	ASPHALT
BDY	BOUNDARY
BLDG	BUILDING
BM	BENCH MARK
CC	CENTER TO CENTER
CONC	CONCRETE
CONST	CONSTRUCTION
CR	COUNTY ROAD
D	DEED DISTANCE
DM	DIRECT MEASUREMENT
DWY	DRIVEWAY
EP	EDGE OF PAVEMENT
ES	EDGE OF SHOULDER
FEE	FEE ACQUISITION
FEE WO/A	FEE ACQUISITION WITHOUT ACCESS
FP	FENCE POST
FD	FOUNDATION
FL	FENCE LINE
GAR	GARAGE
GR	GRAVEL
HO	HOUSE
HWY	HIGHWAY
IP	IRON PIN OR IRON PIPE
MB	MAILBOX
MON	MONUMENT
N&W	NAIL AND WASHER
OG	ORIGINAL GROUND
O/H	OVERHEAD
P	PARCEL
PAV'T	PAVEMENT
PE	PERMANENT EASEMENT
PED POLE	PEDESTRIAN POLE
ℙ	PROPERTY LINE
POR	PORCH
RR	RAILROAD
RTE	ROUTE
ROW	RIGHT OF WAY
RW	RETAINING WALL
SH	STATE HIGHWAY
SHLDR	SHOULDER
SPK	SPIKE
ST	STREET
STK	STAKE
STY	STORY
SW	SIDEWALK
TE	TEMPORARY EASEMENT
TO	TEMPORARY OCCUPANCY
U/G	UNDERGROUND
WW	WING WALL

UTILITIES

ABBR.	DESCRIPTION
E	ELECTRIC
EMH	ELECTRIC MANHOLE
G	GAS
GP	GUY POLE
GSB	GAS SERVICE BOX (HOUSE LINE)
GV	GAS VALVE (MAIN LINE)
HYD	HYDRANT
LP	LIGHT POLE
LPG	LOW PRESSURE GAS
PP	POWER POLE
SA	SANITARY SEWER
SMH	SANITARY MANHOLE
ST	STORM SEWER
T	TELEPHONE
TCB	TRAFFIC CONTROL BOX
TELBOX	TELEPHONE BOX
TEL P	TELEPHONE POLE
TMH	TELEPHONE MANHOLE
CTV	CABLE TELEVISION
W	WATER
WSB	WATER SERVICE BOX (HOUSE LINE)
WV	WATER VALVE (MAIN LINE)

SUBSURFACE EXPLORATION

ABBR.	DESCRIPTION
REPLACE ABBREVIATION "AB" WITH:	
AH	HAND AUGER
CP	CONE PENETROMETER
DA	2¼ INCHES CASED DRILL HOLE
DM	DRILLING MUD
DN	4 INCHES CASED DRILL HOLE
FH	HOLLOW FLIGHT AUGER
PA	POWER AUGER
PH	PROBE
PT	PERCOLATION TEST HOLE
RP	1 INCH SAMPLER (RETRACTABLE PLUG)
	TO BE DEFINED AT THE TIME OF EXPLORATION
SP	SEISMIC POINT
TP	TEST PIT
ABBREVIATION "C" IN CATAGORIES: DA, DM, DN, AND FH WITH:	
B	BRIDGE
C	CUT
D	DAM
F	FILL
K	CULVERT
W	WALL
X	TO BE USED IF ONE OF THE ABOVE CANNOT BE DEFINED AT THE TIME THE EXPLORATION IS MADE

STANDARD SYMBOL (PLANS)	ITEM PAYMENT UNIT: ESTIMATE OF QUANTITIES SHEET	EQUIVALENT NOMENCLATURE: (SPECS/PROPOSAL)
'	ft	LINEAR FEET
ft²	SF	SQUARE FEET
YD³	CY	CUBIC YARD
mi	MI	MILES
AC	AC	ACRES
lb	LB	POUND
TON	TON	TON
GAL	GAL	GALLON

NYSDOT STANDARD SHEETS

203-01	603-01	619-01	645-03
203-02	603-02	619-02	655-01
203-04	604-02	619-60	655-04
203-05	606-04	619-61	655-07
209-01	608-01	619-62	685-01
209-03	609-01	645-01	
554-02			

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ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

INDEX AND ABBREVIATIONS

AS-BUILT REVISIONS	DATE		
		DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
		DATE: NOV 2020	SCALE: NONE	PROJ. NO.: 839.001.001
		DWG No.: IND-01		SHEET 2 of 104

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ALIGNMENT

STYLE	NAME	DESCRIPTION
	AC	CONTROL (CENTERLINE)
	AD_P	DETOUR
	AT_P	TRANSITION CONTROL

BRIDGE

STYLE	NAME	DESCRIPTION
	BR	RAIL
	BSHT	SHEET PILING

CONTROL

STYLE	NAME	DESCRIPTION
	CB	BASELINE
	CBPR	BASELINE, PROJECTION

DRAINAGE

STYLE	NAME	DESCRIPTION
ST	DCP	CULVERT PIPE
ST	DCP_P	CULVERT PIPE (DIR)
	DDG_P	DITCH, GRASS LINED
	DDP_P	DITCH, PAVED INVERT
	DDS_P	DITCH, STONE LINED
	DFL_P	FLOW LINE
	DSSD	SLOTTED DRAIN

ENVIRONMENTAL

STYLE	NAME	DESCRIPTION
S	EBLHS	BALE, HAY/STRAW
	ECT	CURTAIN, TURBIDITY
	EDMC	DAM, COFFER TYPE
	EDMEC_P	DAM, EARTHEN, CHECK
	EDMPC_P	DAM, PREFAB, CHECK
	EDMSC_P	DAM, STONE, CHECK
	EFNS	FENCE, SILT
	EFNSV	FENCE, SILT & VEGETATION
	EFNV	FENCE, VEGETATION
AA	EWAA_P	WETLAND, ADJACENT AREA
FW	EWF	WETLAND, FEDERAL
FW SW	EWFS	WETLAND, FEDERAL AND STATE
WM	EWM	WETLAND, MITIGATION AREA
SW	EWS	WETLAND, STATE

SIGNS

STYLE	NAME	DESCRIPTION
	SBLB	BILLBOARDS
	SM	MULTIPLE POST
	SSO	STRUCTURE, OVERHEAD
	SSOC	STRUCTURE, OVHD. CANTILEVER

LANDSCAPE

STYLE	NAME	DESCRIPTION
	LABL	AREA, BRUSH LINE
	LAHR	AREA, HEDGE ROW
	LAPB	AREA, PLANTING BED
	LAWA	AREA, WOODED AREA OUTLINE
	LAWE	AREA, WATERS EDGE
	LCUT_P	CUT LIMIT
	LFILL_P	FILL LIMIT
	LFNC	FENCE
	LTRC	TREE ROW, CONIFEROUS
	LTRD	TREE ROW, DECIDUOUS
	LWH	WALL, H PILE
	LWR	WALL, RETAINING
	LWS	WALL, STONE

ROW MAPPING

STYLE	NAME	DESCRIPTION
	MDL	DEED LINE
PE	MEE	EASEMENT, EXISTING
PE	MEP_P	EASEMENT, PERMANENT
APE	MEPA_P	EASEMENT, PERMANENT, APPROX.
TE	MET_P	EASEMENT, TEMPORARY
ATE	META_P	EASEMENT. TEMPORARY, APPROX.
FEE	MF_P	FEE ACQUISITION, W/ ACCESS
AFEE	MFA_P	FEE ACQUISITION, APPROXIMATE
	MFS_P	FEE ACQUISITION, SHAPE
FEE W/OA	MFWOA_P	FEE ACQUISITION, W/O ACCESS
HB	MHB	HIGHWAY BOUNDARY
AHB	MHBA	HIGHWAY BOUNDARY, APPROX.
	MHBW	HWY BOUNDARY, FACE OF WALL
HB W/OA	MHBWOA	HIGHWAY BOUNDARY, W/O ACCESS
	MJC	JURISDICTION, CITY
	MJCY	JURISDICTION, COUNTY
	MJHD	JURISDICTION, HISTORIC DISTRICT
	MJLL	JURIS., (GREAT, MILITARY) LOT LINE
	MJN	JURISDICTION, NATION
	MJPB	JURISDICTION, PUBLIC LANDS
	MJS	JURISDICTION, STATE
	MJT	JURISDICTION, TOWN
	MJV	JURISDICTION, VILLAGE
	MPL	PROPERTY LOT LINE
	MPLA	PROPERTY LOT LINE, APPROXIMATE
	MSL	SUB LOT LINE

ROADWAY

STYLE	NAME	DESCRIPTION
	RG	GUIDE RAIL, MISCELLANEOUS
	RGB	GUIDE RAIL, BOX BEAM
	RGBM	GUIDE RAIL, BOX BEAM, MEDIAN
	RGC	GUIDE RAIL, CABLE
	RGCB	GUIDE RAIL, CONCRETE BARRIER
	RGP_P	GUIDE POST
	RGW	GUIDE RAIL, W BEAM
	RGWM	GUIDE RAIL, W BEAM, MEDIAN
	RPB	PARKING BUMPER
	RRC	RAIL ROAD, CATENARY
3RI	RRER	RAIL ROAD, 3RD RAIL
	RRPLS_P	RAIL, PHOTO, LARGE SCALE
	RRPSS	RAIL, PHOTO, SMALL SCALE
	RRS	RUMBLE STRIP
	RRSLS_P	RAIL, SURVEY, LARGE SCALE
	RRSSS	RAIL, SURVEY, SMALL SCALE

STRIPING

STYLE	NAME	DESCRIPTION
	STB*	BROKEN LINE
	STDB*	DOUBLE BROKEN LINE
	STDL*	DOTTED LINE LONG
	STDS*	DOTTED LINE SHORT
	STFB*	FULL BARRIER LINE
	STH*	HATCH LINE
	STPB*	PARTIAL BARRIER LINE
	STRCT	ROUNDABOUT, CAT TRACKS
	STRYL	ROUNDABOUT, YIELD LINE
	STSB	STOP BAR
	STSE	SOLID, EDGE
	STXL*	X WALK, LADDER LINE
		* = W (WHITE) OR Y (YELLOW)

TRAFFIC CONTROL

STYLE	NAME	DESCRIPTION
	TCSW	SIGNAL, SPAN WIRE

UTILITIES

STYLE	NAME	DESCRIPTION
C	UC	CONDUIT, UNDERGROUND
]C[	UCH	CONDUIT, HANGING
OC	UCO	CONDUIT, OVERHEAD
E	UE	ELECTRIC LINE, UNDERGROUND
]E[	UEH	ELECTRIC LINE, HANGING
OE	UEO	ELECTRIC LINE, OVERHEAD
OET	UETO	ELECTRIC TRANSMISSION, OVERHEAD
	UESS	ELECTRIC, SUBSTATIONS
FO	UFO	FIBER OPTIC, UNDERGROUND
]FO[	UFOH	FIBER OPTIC, HANGING
OFO	UFOO	FIBER OPTIC, OVERHEAD
G	UG	GAS, UNDERGROUND
]G[	UGH	GAS, HANGING
OG	UGO	GAS, OVERHEAD
IC	UIC	INFORM CABLE, UNDERGROUND
]IC[	UICH	INFORM CABLE, HANGING
O	UO	OIL LINE, UNDERGROUND
]O[	UOH	OIL LINE, HANGING
	UPBP	POLE, BRACE, PUSH BRACE
	UPBW	POLE, GUY WIRE
SA	USA	SANITARY SEWER, UNDERGROUND
]SA[	USAH	SANITARY SEWER, HANGING
SAF	USAF	SANITARY SEWER, FORCE MAIN, UGND
]SAF[	USAFH	SANITARY SEWER, FORCE MAIN, HANG
T	UT	TELEPHONE, UNDERGROUND
]T[	UTH	TELEPHONE, HANGING
OT	UTO	TELEPHONE, OVERHEAD
CTV	UTV	CABLE TV, UNDERGROUND
]CTV[	UTVH	CABLE TV, HANGING
OCTV	UTVO	CABLE TV, OVERHEAD
UU	UUU	UNKNOWN, UNDERGROUND
]UU[	UUH	UNKNOWN, HANGING
OUU	UUO	UNKNOWN, OVERHEAD
W	UW	WATER LINE, UNDERGROUND
]W[	UWH	WATER LINE, HANGING
OW	UWO	WATER LINE, OVERHEAD

1. THE LEGEND ILLUSTRATES MAPPING FEATURES (EXISTING AND PROPOSED).
2. FEATURES ARE SHOWN AS EITHER LINEAR(ROADWAY GUIDERAIL, ROADWAY SIDEWALK, UTILITY LINES, ETC.) OR POINT (SIGN, UTILITY POLE, ETC.).
3. FEATURES SHOWN ON THE LEGEND AS EXISTING FEATURES ALSO HAVE CORRESPONDING PROPOSED FEATURES.
4. PROPOSED FEATURE SYMBOLOGY IS IDENTICAL TO EXISTING FEATURE SYMBOLOGY EXCLUDING LINE WEIGHT. LINE WEIGHT FOR PROPOSED FEATURES IS THICKER (0.40 MM ON B SIZE DRAWINGS).
5. MAPPING FEATURES NOT INCLUDED ON THE LEGEND SHEET DO NOT HAVE A UNIQUE SYMBOLOGY (SUCH AS THE PAVEMENT EDGE, PAVEMENT EDGE OF TRAVEL WAY) AND SHOULD BE LABELED ON THE PLANS.
6. FEATURES SHOWN AT THE HEAVIER WEIGHT ARE PROPOSED ONLY AND DO NOT HAVE CORRESPONDING EXISTING FEATURES.

C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
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AS-BUILT REVISIONS	DATE

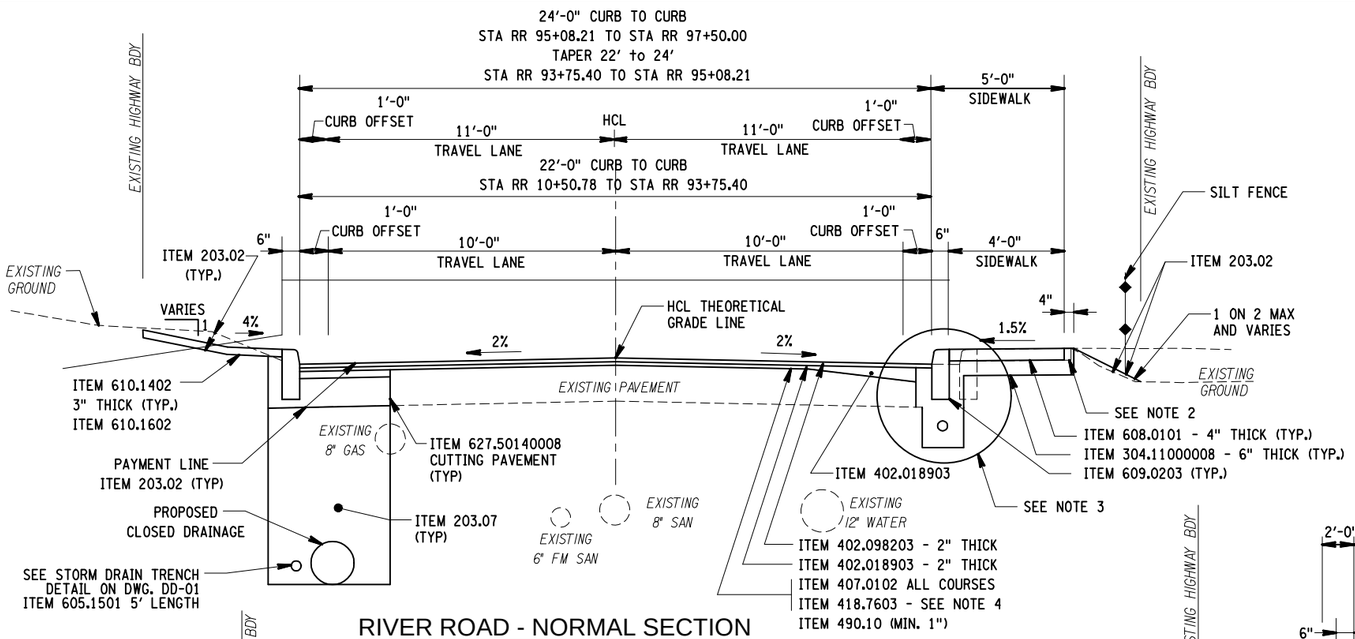
ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
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LEGEND LINES

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: AS SHOWN	PROJ. NO.: 839.001.001
DWG No.: LEG - 01		SHEET 3 of 104

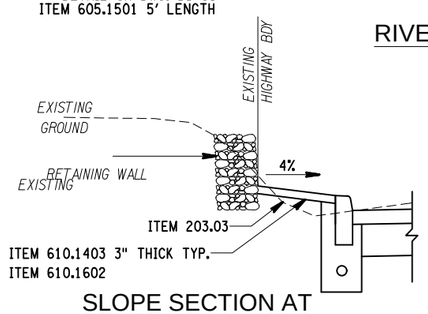
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RIVER ROAD - NORMAL SECTION MILL AND INLAY

NOT TO SCALE

ALL REMAINING STATIONS NOT SHOWN ON LIMITS OF ROAD RECONSTRUCTION



SLOPE SECTION AT EXISTING RETAINING WALL

NOT TO SCALE

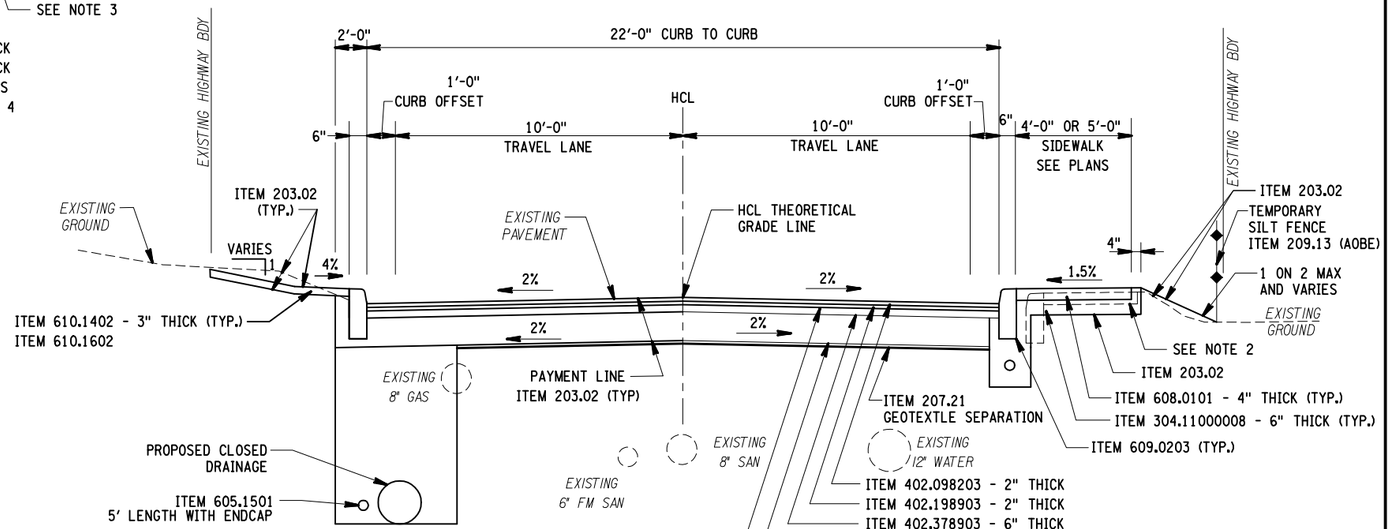
ALL STATIONS ARE LEFT OF HCL

RR 16+81.7 TO RR 17+08.6	RR 43+93.1 TO RR 45+23.8	RR 74+19.8 TO RR 74+39.0
RR 17+36.7 TO RR 18+13.1	RR 49+45.3 TO RR 50+28.4	RR 76+51.5 TO RR 78+47.7
RR 18+50.8 TO RR 18+92.5	RR 50+47.3 TO RR 51+50.6	RR 84+34.4 TO RR 84+80.0
RR 19+41.8 TO RR 20+23.9	RR 51+70.0 TO RR 53+22.9	RR 85+91.5 TO RR 86+61.1
RR 20+44.5 TO RR 21+13.9	RR 57+34.3 TO RR 58+84.5	RR 86+91.3 TO RR 87+31.0
RR 35+76.7 TO RR 37+00.6	RR 59+18.2 TO RR 61+38.8	RR 87+31.0 TO RR 87+94.6
RR 37+14.8 TO RR 37+36.3	RR 61+40.0 TO RR 62+57.2	RR 88+23.7 TO RR 88+70.9
RR 37+55.0 TO RR 37+87.8	RR 66+25.0 TO RR 66+70.2	RR 88+93.9 TO RR 90+18.6
RR 38+17.6 TO RR 39+83.2	RR 70+21.4 TO RR 72+00.0	RR 90+30.3 TO RR 90+69.1
RR 39+83.2 TO RR 42+07.3	RR 73+21.4 TO RR 73+92.8	RR 91+39.1 TO RR 93+77.9
RR 42+39.0 TO RR 43+81.6		

ITEM NO.	DESCRIPTION	UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY
203.07	SELECT GRANULAR FILL	CY
207.21	GEOTEXTILE SEPARATION	SY
304.11000008	SUBBASE COURSE (MODIFIED)	CY
402.018903	TRUE & LEVELING F9, SUPERPAVE HMA, 80 SERIES COMPACTION	TON
402.098203	9.5 F2 TOP COURSE HMA, 80 SERIES COMPACTION	TON
402.198903	19 F9 BINDER COURSE HMA, 80 SERIES COMPACTION	TON
402.378903	37.5 F9 BASE COURSE HMA, 80 SERIES COMPACTION	TON
407.0102	DILUTED TACK COAT	GAL
418.7603	ASPHALT PAVEMENT JOINT ADHESIVE	LF
490.10	PRODUCTION COLD MILLING	SY
605.1001	UNDERDRAIN FILTER TYPE 2	CY
605.1501	PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN TUBING, 4 INCHDIAMETER	LF
608.0101	CONCRETE SIDEWALKS AND DRIVEWAYS	CY
609.0203	GRANITE CURBING, TYPE C	LF
610.1402	TOPSOIL - LAWNS	CY
610.1602	TURF ESTABLISHMENT - LAWNS	SY
627.50140008	CUTTING PAVEMENT	LF

TABLE OF ROAD RECONSTRUCTION

5TA	5TA	SIDE	LENGTH	WIDTH	AREA (SF)
RR 10+50	RR 11+75	LT	125	11	1,375
RR 11+75	RR 12+25	LT/RT	50	22	1,100
RR 12+25	RR 14+50	LT	225	11	2,475
RR 16+50	RR 19+00	LT	250	11	2,750
RR 23+00	RR 23+50	LT	50	11	550
RR 25+00	RR 25+50	LT	50	11	550
RR 35+50	RR 37+25	LT	175	11	1,925
RR 41+50	RR 46+50	LT/RT	500	22	11,000
RR 48+00	RR 50+00	LT	200	11	2,200
RR 58+50	RR 59+50	LT	100	11	1,100
RR 62+50	RR 63+00	LT	50	11	550
RR 68+00	RR 69+00	LT/RT	100	22	2,200
RR 70+00	RR 72+50	LT/RT	250	22	5,500
RR 78+00	RR 79+00	LT/RT	100	22	2,200
RR 79+00	RR 80+50	LT	150	11	1,650
RR 82+75	RR 83+25	LT/RT	50	22	1,100
RR 86+00	RR 92+00	LT/RT	600	22	13,200
			3,025		51,425



RIVER ROAD - NORMAL SECTION FULL DEPTH RECONSTRUCTION

NOT TO SCALE

SEE LIMITS OF ROAD RECONSTRUCTION THIS SHEET

NOTES:

1. EXISTING SIDEWALKS SHALL BE REMOVED, PAYMENT ITEM 203.02. SIDEWALKS CONSTRUCTED OF BRICK OR CONCRETE PAVERS ARE THE PROPERTY OF THE ADJACENT PROPERTY OWNER. THE CONTRACTOR SHALL CHECK WITH THE PROPERTY OWNER AS TO WHETHER THEY WANT TO SALVAGE THE EXISTING PAVERS OR NOT. IF THE OWNER WANTS TO SALVAGE THE PAVERS, THEY SHALL DESIGNATE A LOCATION TO STOCKPILE THEM UPON REMOVAL BY THE CONTRACTOR. THE COST FOR THE THIS WORK SHALL BE PAID FOR UNDER ITEM 203.02. IF THE OWNER DOES NOT WANT THE PAVERS, REMOVAL SHALL BE PAID FOR UNDER ITEM 203.02.
2. SEE DRAWING MD-01 FOR SIDEWALK DETAIL AT DRIVEWAYS.
3. SEE DRAWING TYP-02 FOR UNDERDRAIN AND CURB INSTALLATION DETAILS.
4. ITEM 407.0102 - DILUTED TACK COAT SHALL BE PLACED BETWEEN THE MILLED SURFACE AND NEW HMA COURSE AND BETWEEN ALL NEW HMA COURSES. ITEM 418.7603 - ASPHALT PAVEMENT ADHESIVE SHALL BE USED ON VERTICAL FACES FOR AL JOINTS IN THE HMA TOP COURSE, INCLUDING CURBS AND DRAINAGE STRUCTURES IN RESURFACING AND RECONSTRUCTED PAVEMENT LOCATIONS.

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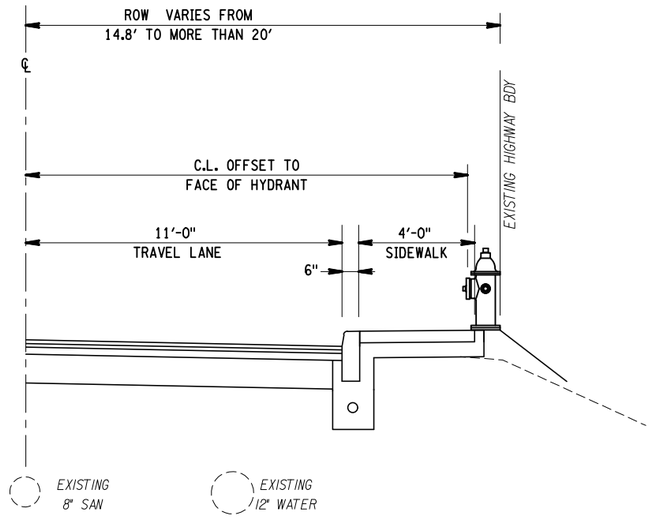
ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

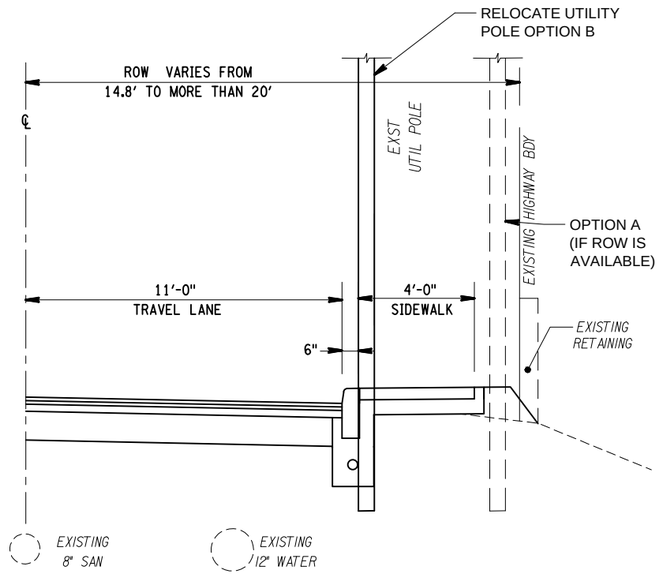
TYPICAL SECTIONS

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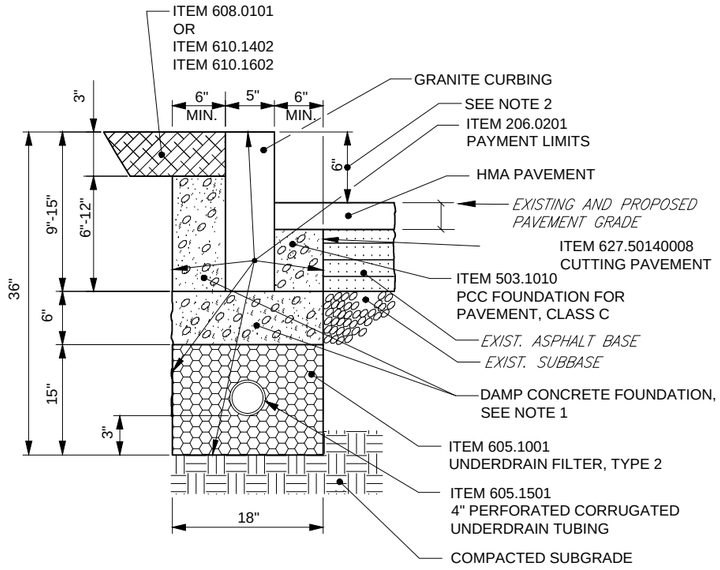
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RIVER ROAD - PARTIAL SECTION
FULL DEPTH RECONSTRUCTION
WITHOUT GUIDERAIL



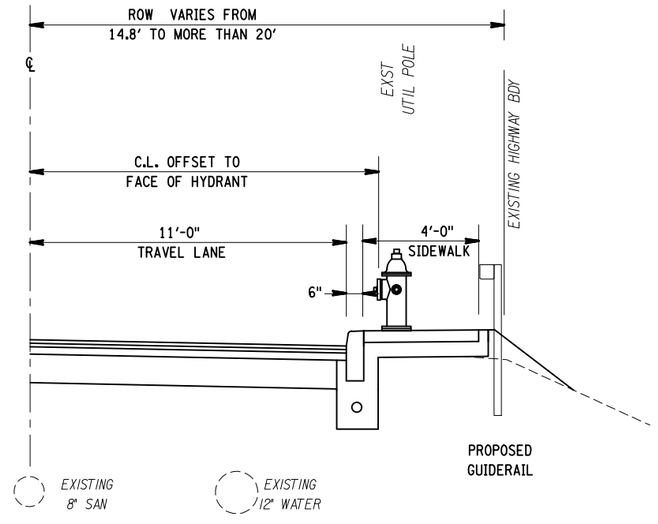
RIVER ROAD - UTILITY POLE RELOCATION



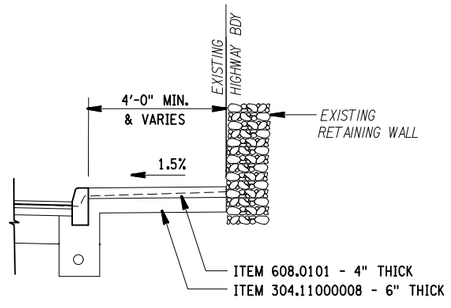
NOTES:

1. PAYMENT FOR CONCRETE FOUNDATION AND BACKING TO BE INCLUDED IN BID PRICE FOR CURB.
2. 6" DIMENSION FROM TOP OF CURB TO TOP OF FINISHED PAVEMENT IS OPTIMAL DESIGN DIMENSION, BUT IN NO CASES SHALL THE CURB REVEAL BE LESS THAN 5". THIS DIMENSION MAY VARY DUE TO CHANGES IN PAVEMENT GRADE AND AS DIRECTED BY THE ENGINEER. PROVIDE 1" CURB REVEAL ACROSS DRIVEWAY ENTRANCES. CURB REVEAL SHALL NOT EXCEED $\frac{1}{4}$" AT SIDEWALK CURB RAMPS.

TYPICAL GRANITE CURB AND UNDERDRAIN
INSTALLATION - MILL AND OVERLAY AREAS



RIVER ROAD - PARTIAL SECTION
FULL DEPTH RECONSTRUCTION
WITH GUIDERAIL



SIDEWALK SECTION AT
EXISTING RETAINING WALL
NOT TO SCALE

ALL STATIONS ARE RIGHT OF HCL

	RR 14+28.3 TO RR 14+63.4
	RR 15+64.0 TO RR 15+78.3
	RR 20+64.5 TO RR 21+68.4
*	RR 23+34.3 TO RR 25+12.5
*	RR 25+85.9 TO RR 28+01.6
	RR 28+73.4 TO RR 29+88.8
	RR 47+16.1 TO RR 48+01.5
	RR 50+45.8 TO RR 52+70.3
	RR 55+09.8 TO RR 55+92.8
	RR 66+31.0 TO RR 66+76.9
	RR 75+38.0 TO RR 75+79.6
	RR 76+41.1 TO RR 77+44.3
	RR 77+58.6 TO RR 78+39.3
	RR 81+38.3 TO RR 82+01.8

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TYPICAL SECTIONS

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DEFINITION

THE WORDS "SHALL", "SHOULD", AND "MAY", AS USED IN THE CONTRACT DOCUMENTS, HAVE THE FOLLOWING MEANINGS:

SHALL - A MANDATORY CONDITION. IN THE DESIGN, APPLICATION, OR LOCATION OF DEVICES, REQUIREMENTS HAVING "SHALL" STIPULATIONS ARE MANDATORY. NO DISCRETION IN FOLLOWING THEM IS ALLOWED.

SHOULD - AN ADVISORY CONDITION. WHERE "SHOULD" IS USED IN RELATION TO A PROVISION, THAT PROVISION IS RECOMMENDED, AND NORMALLY IS TO BE FOLLOWED, BUT IS NOT MANDATORY. DEVIATION FROM SUCH PROVISIONS IS PERMISSIBLE IF, AND TO THE EXTENT THERE IS JUSTIFIABLE CAUSE TO DO SO.

MAY - A PERMISSIVE CONDITION. NO REQUIREMENT FOR DESIGN OR APPLICATION IS INTENDED.

RETAINING WALLS

WITHIN THE PROJECT LIMITS THERE ARE NUMEROUS RETAINING WALLS VARYING IN MATERIALS, CONSTRUCTION AND DISTANCE FROM THE PROPOSED WORK. MANY OF THE WALLS ARE IN VARYING DEGREES OF DIS-REPAIR THAT MAY OR MAY NOT EFFECT THE STABILITY OF THE WALL. SEVERAL WALLS ARE DESIGNATED FOR SOME REPAIR WORK UNDER THIS CONTRACT WHICH IS NON-STRUCTURAL IN NATURE AND INTENDED FOR MAINTENANCE ONLY.

TO ENSURE NONE OF THE WALLS ARE DISTURBED OR DAMAGED FURTHER BY THE CONSTRUCTION EFFORT NON-VIBRATORY COMPACTION METHODS SHALL BE USED.

DRAINAGE FACILITIES

THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE DRAINAGE CHARACTERISTICS OF THE AREA SO THAT HE MAY PROGRESS HIS WORK EFFICIENTLY WITH FULL KNOWLEDGE OF THE POTENTIAL DRAINAGE PROBLEMS.

ALL DRAINAGE SYSTEMS WITHIN THE CONTRACT LIMITS, INCLUDING DITCHES, PIPES AND DRAINAGE STRUCTURES SHALL BE KEPT CLEAN AND FREE FLOWING FOR THE DURATION OF THE CONTRACT, AOBE. NO PAYMENT WILL BE MADE FOR REQUIRED CLEANING OF NEW DRAINAGE FACILITIES INSTALLED AS PART OF THIS CONTRACT.

EMERGENCY REPAIRS

THE NOTIFICATIONS REQUIRED BY STANDARD SPECIFICATION SECTION 107-05 [C] SHALL BE DONE IN WRITING WITH AN ADDITIONAL COPY PROVIDED TO THE COUNTY HIGHWAY SUPERINTENDENT.

RESTORING DISTURBED AREAS

THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO A CONDITION APPROVED BY THE ENGINEER.

SIGNS

WHEN A NEW SIGN IS INSTALLED TO REPLACE AN EXISTING SIGN, THE EXISTING SIGN SHALL BE IMMEDIATELY REMOVED UPON COMPLETION OF THE NEW SIGN INSTALLATION.

SOIL EROSION AND WATER POLLUTION CONTROL PLANS

ANY PROPOSED CHANGES TO THE EROSION AND WATER POLLUTION CONTROL MEASURES SHALL BE APPROVED BY THE ENGINEER PRIOR TO BEING IMPLEMENTED.

ALL DRAINAGE STRUCTURES LOCATED WITHIN THE PAVEMENT RECONSTRUCTION LIMITS ARE TO PROTECTED WITH ITEM 209.1701 DRAINAGE STRUCTURE INLET PROTECTION, SILT FENCE TEMPORARY.

THE CONTRACTOR IS ADVISED THAT THE LOCATIONS OF THE TEMPORARY DEVICES ARE APPROXIMATE. THE EXACT DEVICE LOCATIONS TO ACCOMMODATE THE PROPOSED WORK SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

MAILBOXES

DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN IN A USABLE CONDITION AND LOCATION SPECIFIED BY THE US POSTAL REQUIREMENTS, POSTAL ROUTE MAIL BOXES SERVICED FROM MOTOR VEHICLES.

UNDER NO CIRCUMSTANCES SHALL ANY MAILBOXES BE MOVED WHEN ANY TYPE OF MAIL IS IN THE BOX. THE CONTRACTOR SHALL ADVISE THE OWNER TO REMOVE SUCH MAIL BEFORE THE BOX IS MOVED. PAYMENT SHALL BE MADE UNDER ITEM 619.27 MAILBOXES.

MAILBOX SUPPORTS SHALL BE IN ACCORDANCE WITH US POSTAL SERVICE REQUIREMENTS. MAILBOXES SHALL NOT BE MOUNTED ON DRUMS ON OTHER DEVICES NOT DESIGNED FOR SUCH USE.

CULTURAL RESOURCES

A CULTURAL RESOURCE ASSESSMENT REPORT HAS BEEN COMPLETED FOR THIS PROJECT. THIS REPORT IDENTIFIED TWO PROPERTIES WERE IDENTIFIED AS BEING LISTED ON THE NATIONAL REGISTER AND TWENTY-TWO OTHER PROPERTIES WERE IDENTIFIED AS ELIGIBLE FOR THE NATIONAL REGISTER.

THIS REPORT ALSO IDENTIFIED SEVERAL RETAINING WALL FEATURES THAT ARE HISTORIC.

MEASURES SHOULD BE TAKEN TO ENSURE CONSTRUCTION WILL NOT DISTURB ANY IDENTIFIED STRUCTURES OR ELEMENTS UNLESS OTHERWISE NOTED ON THE PLANS.

CLEARING AND GRUBBING NOTE

THE CONTRACTOR SHALL CLEAR AND GRUB (ITEM 201.06) AS NECESSARY TO FACILITATE THE CONSTRUCTION OF WORK SHOWN ON THE PLAN SHEETS. CLEARING AND GRUBBING TO THE RIGHT-OF-WAY LINE SHALL NOT BE DONE UNLESS DIRECTED BY THE EIC.

UTILITIES

FOUR SEPARATE QUALITY LEVELS OF SUBSURFACE UTILITY FACILITY INFORMATION ARE GENERALLY RECOGNIZED AND ARE AS FOLLOWS:

QUALITY LEVEL A (QLA): QUALITY LEVEL A IS THE HIGHEST DEGREE OF ACCURACY. THE INFORMATION SHOWN ON THE PLANS HAS BEEN OBTAINED BY THE ACTUAL EXPOSURE (OR VERIFICATION OF PREVIOUSLY EXPOSED AND SURVEYED UTILITY FACILITIES) OF SUBSURFACE UTILITIES, USING (TYPICALLY) MINIMALLY INTRUSIVE EXCAVATION EQUIPMENT TO DETERMINE THEIR PRECISE HORIZONTAL AND VERTICAL POSITIONS, AS WELL AS THEIR OTHER UTILITY FACILITY ATTRIBUTES. (SHOWN AS QLA)

QUALITY LEVEL B (QLB): QUALITY LEVEL B IS THE SECOND HIGHEST DEGREE OF ACCURACY. THE INFORMATION SHOWN ON THE PLANS HAS BEEN OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS (I.E., UNDERGROUND CAMERAS, RADAR, SONAR, TONE OUTS, ETC.) TO IDENTIFY THE EXISTENCE AND APPROPRIATE HORIZONTAL POSITION OF SUBSURFACE UTILITY FACILITIES.
QUALITY LEVEL B DATA ARE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THE INFORMATION WAS SURVEYED TO APPLICABLE TOLERANCES AND REDUCED ONTO THE PLANS. NO EXCAVATIONS WERE PERFORMED. (SHOWN AS QLB)

QUALITY LEVEL C (QLC): QUALITY LEVEL C IS THE THIRD HIGHEST DEGREE OF ACCURACY. THE INFORMATION SHOWN ON THE PLANS HAS BEEN OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGEMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL D INFORMATION. (SHOWN AS QLC)

QUALITY LEVEL D (QLD): QUALITY LEVEL D IS THE LOWEST DEGREE OF ACCURACY. THE INFORMATION SHOWN ON THE PLANS WAS DERIVED SOLELY FROM EXISTING DESIGN MAPPING AND/OR UTILITY COMPANY RECORDS OR RECOLLECTIONS. (SHOWN AS QLD)

THE APPROXIMATE LOCATIONS OF UNDERGROUND UTILITIES ARE SHOWN ON THE PLANS. THE LOCATIONS INDICATED ARE THE FOLLOWING QUALITY LEVEL (QL): SUEZ WATER (QL A AND QL B) AND O&R GAS (QL A), SANITARY SEWER (QL C AND QL D). THE CONTRACTOR SHALL PROGRESS HIS WORK UNDERSTANDING THAT UTILITY LOCATIONS ARE PROVIDED FOR INFORMATION BUT ARE NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE TO FOLLOW APPLICABLE LAW AND REGULATION, REGARDING UTILITY MARK-OUT, PRIOR TO INITIATING OPERATIONS THAT COULD IMPACT THE INTEGRITY OF ANY UTILITY FACILITY.

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL UTILITY WORK, INCLUDING WORK BY UTILITY OWNERS OR THEIR CONTRACTORS.

UTILITY FACILITIES ARE SHOWN ON THE PLANS TO AID THE CONTRACTOR IN COORDINATING THE WORK. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY INFORMATION INCLUDING MARK-OUTS, SURVEY, STAKEOUT ETC. TO THE UTILITY OWNERS IN ORDER TO ASSURE THAT ANY NEW UTILITY FACILITIES ARE CONSTRUCTED AT LOCATIONS/ELEVATIONS COMPATIBLE WITH THE ROADWAY AND DRAINAGE IMPROVEMENTS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT UTILITY POLES ARE INSTALLED IN ADHERENCE WITH CURB, OR GUIDE RAILING MINIMUM CLEARANCES INDICATED ON THE TYPICAL SECTIONS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES ENCOUNTERED IN THE WORK COMPLETED UNDER THIS CONTRACT. WHERE NECESSARY, THE CONTRACTOR SHALL PROVIDE TIMBER, PLANK OR OTHER APPROVED MATERIALS AND SECURELY BRACE AND PROTECT THESE UTILITIES.

THE EXISTING SANITARY SEWERS, FORCE MAINS AND PUMP STATIONS ARE OWNED BY THE TOWN OF ORANGETOWN, ALL OTHER UTILITIES ARE PRIVATELY OWNED AND MAINTAINED. THE CONTRACTOR SHALL CONTACT THE UTILITY OWNER TO MARK OUT IN THE FIELD THE LOCATION OF THE SERVICE CONNECTIONS FOR THAT UTILITY PRIOR TO BEGINNING WORK. ANY WORK THAT INVOLVES THE REMOVAL, RELOCATION OR REPAIR OF THE UTILITY MAINS OR SERVICE CONNECTIONS SHALL BE COMPLETED BY THE OWNER.

THE EXISTING 8 INCH DIAMETER GAS MAIN WAS INSTALLED IN 2004. THE PIPE IT REPLACED IS STEEL AND WAS ABANDONED IN PLACE. IT IS NOT KNOWN IF THIS PIPE IS WRAPPED OR HAS A COATING OF MATERIAL REQUIRING SPECIAL HANDLING PROVISIONS. SHOULD THIS PIPE BE ENCOUNTERED DURING EXCAVATION AND IT NEEDS TO BE REMOVED THE CONTRACTOR SHALL CALL ORANGE AND ROCKLAND UTILITIES TO HAVE THE PIPE REMOVED AND DISPOSED OF.

DURING NECESSARY UTILITY RELOCATION WORK, THE CONTRACTOR SHALL COOPERATE IN EVERY WAY WITH THE UTILITY OWNER, AND SHALL SCHEDULE WORK IN SUCH A WAY AS TO COMPLY WITH SHUT DOWN TIMES AND ANY OTHER REQUIREMENTS OF THE UTILITY OWNER. NO ADDITIONAL PAYMENT SHALL BE MADE FOR ANY COST INCURRED DUE TO COMPLYING WITH UTILITY OWNER'S REQUIREMENTS. SUCH COSTS SHALL BE INCLUDED IN THE PRICE BID FOR VARIOUS ITEMS IN THE CONTRACT.

STREAM PROTECTION NOTE

DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT OPERATIONS IN SUCH A MANNER AS TO PREVENT OR REDUCE TO A MINIMUM ANY DAMAGE TO ANY STREAM FROM POLLUTION OR DEBRIS, SEDIMENT, OR OTHER FOREIGN MATERIAL, OR FROM MANIPULATION OF EQUIPMENT AND/OR MATERIALS IN OR NEAR SUCH STREAMS. THE CONTRACTOR SHALL NOT RETURN DIRECTLY TO A STREAM ANY WATER WHICH HAS BEEN USED FOR WASH PURPOSES OR OTHER SIMILAR OPERATIONS WHICH CAUSE THIS WATER TO BECOME POLLUTED WITH SAND, CEMENT, OIL, OR OTHER IMPURITIES. IF THE CONTRACTOR USES WATER FROM A STREAM, THE CONTRACTOR SHALL CONSTRUCT AN INTAKE OR TEMPORARY DAM REQUIRED TO PROTECT AND MAINTAIN WATER RIGHTS AND TO SUSTAIN FISH LIFE DOWNSTREAM.

DRIVEWAY AND SIDEWALK PAVERS

THERE ARE LOCATIONS WHERE THE PROPOSED WORK WILL REQUIRE THE REMOVAL AND RESETTING OF BRICK, BLOCK OR FLAGSTONE DRIVEWAYS OR SIDEWALKS UNDER ITEM 608.10080008. THESE PAVERS UNITS WERE INSTALLED BY ADJACENT PROPERTY OWNERS. CARE SHOULD BE USED DURING THE REMOVAL OF PAVERS. IF ANY PAVER UNITS ARE LEFT OVER THE CONTRACTOR SHALL ASK THE PROPERTY OWNER IF THEY WISH TO KEEP THE REMAINING PAVERS. IF THE OWNER WANTS THE REMAINING PAVERS THE OWNER SHALL DESIGNATE A REASONABLE LOCATION FOR THEM TO BE STOCKPILED. PAYMENT FOR STOCKPILING SHALL BE INCLUDED IN THE BID PRICE ITEM 203.02.

STONE WALLS OR CURBS

THERE ARE LOCATIONS WHERE THE PROPOSED WORK WILL BE IN CLOSE PROXIMITY TO LOW STONE LANDSCAPE WALLS AND STONE CURBING LAID ALONG THE EDGE OF PAVEMENT OR PLANTING BEDS WERE CONSTRUCTED BY THE ADJACENT PROPERTY OWNERS. THE CONTRACTOR SHALL PROTECT THESE FEATURES DURING CONSTRUCTION BY USING THE NECESSARY AND PROPER EQUIPMENT AND PROCEDURES TO CAUSE NO DAMAGE AND MAINTAIN THE STABILITY OF THESE FEATURES.

REPAIR OF EXISTING PAVEMENT

WHEN MILLING OF THE EXISTING ROADWAY PAVEMENT TO REMAIN HAS BEEN PERFORMED, THE EXPOSED PAVEMENT SURFACE SHALL BE INSPECTED AND REPAIRED AS DIRECTED BY THE ENGINEER BEFORE THE PROPOSED HMA OVERLAY IS PLACED. PAVEMENT JOINTS SHALL BE CLEANED, SEALED AND/OR FILLED UNDER ITEM 633.13. DETERIORATED PAVEMENT SECTIONS SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER. PAYMENT FOR THIS WORK SHALL BE MADE UNDER THE APPROPRIATE ITEMS OF THE CONTRACT (627.50140008 FOR SAWCUTTING, 203.02 FOR EXCAVATION, 304.15 FOR SUBBASE COURSE, 402.376902 FOR HMA BASE COURSE, AND 402.196902 FOR HMA BINDER COURSE).

PERMANENT PAVEMENT MARKINGS

LONG LINE MARKINGS:

PERMANENT LONG LINE PAVEMENT MARKINGS PLACED ON THIS CONTRACT SHALL CONSIST OF 20 MIL REFLECTORIZED PAVEMENT MARKING PAINT (ITEMS 640.20 AND 640.21).
WHENEVER TRAFFIC IS TO BE MAINTAINED OVERNIGHT ON A NEW TOP COURSE ASPHALT SURFACE, THE FOLLOWING FINAL PAINT MARKINGS SHALL BE INSTALLED BEFORE NIGHTFALL OR BEFORE THE END OF THE WORKING DAY, WHICHEVER COMES SOONER:

* ALL YELLOW BROKEN LINES, PARTIAL BARRIER LINES AND FULL BARRIER LINES ON TWO-WAY ROADWAYS (ITEM 640.21).
* ALL WHITE SOLID OR BROKEN LINES USED TO DEFINE TRAFFIC LANES ON MULTI-LANE ROADWAYS (ITEM 640.20).
* ALL EDGE LINES FOR ALL ROADWAYS (ITEMS 640.20 & 21).
* ALL CHANNELIZING LINES USED TO DEFINE EXIT AND ENTRANCE RAMP GORES (ITEM 640.20).

WHENEVER THE CONTRACTOR CANNOT MEET THE ABOVE TIME REQUIREMENTS, INCLUDING REASONS DUE TO WEATHER. TEMPORARY PAVEMENT MARKINGS CONSISTING OF RAISED MARKERS OR REMOVABLE TAPE SHALL BE PLACED PER STANDARD SPECIFICATION SECTION 619-3.06 AND 619-3.06 [B]. SECTION 3.06 [C] SHALL NOT BE UTILIZED AND INSTEAD FINAL FULL WIDTH TEMPORARY CENTERLINE, LANE LINES AND EDGE LINES SHALL BE INSTALLED WITH RAISED MARKERS OR REMOVABLE TAPE. THERE SHALL BE NO PAYMENT FOR THESE TEMPORARY MARKERS AS THE CONTRACTOR IS REQUIRED TO PLACE FINAL MARKINGS THE SAME DAY AND IS RESPONSIBLE FOR SCHEDULING TOP COURSE PLACEMENT WHEN CONDITIONS WILL ALLOW PLACEMENT OF FINAL MARKINGS.

SPECIAL MARKINGS:

EPOXY REFLECTORIZED PAVEMENT MARKINGS WILL BE USED FOR ALL SPECIAL MARKINGS PLACED ON THIS CONTRACT. (THIS INCLUDES, BUT IS NOT LIMITED TO, STOP LINES, HATCH LINES, CROSS WALKS, LETTERS, ARROWS AND OTHER SYMBOLS, ETC.) PAYMENT WILL BE MADE UNDER THE APPROPRIATE ITEM FROM THE 685 SERIES CONTAINED IN THIS CONTRACT.

EPOXY MARKINGS SHALL NOT BE APPLIED OVER POLYESTER MARKINGS, PREFORMED REFLECTORIZED TAPE, OR MULTIPLE LAYERS OF TRAFFIC PAINT. THE REMOVAL OF THESE CONFLICTING MARKINGS WILL BE PAID FOR UNDER THE APPROPRIATE PAYMENT ITEMS FOR CLEANING AND PREPARATION OF PAVEMENT SURFACES IN SECTION 635.

BEFORE THE END OF THE WORKDAY OR BEFORE NIGHTFALL, WHICHEVER COMES FIRST, STOP LINES MEETING THE REQUIREMENTS OF SECTION 640, REFLECTORIZED PAVEMENT MARKING PAINTS, SHALL BE INSTALLED AT THOSE LOCATIONS DIRECTED BY THE ENGINEER. BEFORE PROGRESSING THE DAY'S WORK, THE CONTRACTOR SHALL VERIFY WITH THE ENGINEER WHICH LOCATIONS WILL REQUIRE STOP LINES BEFORE THE END OF THE DAY AND SCHEDULE THE WORK ACCORDINGLY. PAYMENT FOR THIS WORK WILL BE MADE UNDER ITEM 640.20.

HMA COMPACTION

ALL HOT MIX ASPHALT SHALL BE COMPACTED WITH NON-VIBRATORY METHODS.

RIGHT-OF-WAY (ROW)

ALL WORK TO BE PERFORMED UNDER THIS CONTRACT WILL BE WITHIN THE PUBLIC RIGHT-OF-WAY (ROW) IN ACCORDANCE WITH SECTION 105-15 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR IS TO ASSURE HIMSELF THAT ALL WORK IS BEING PERFORMED WITHIN THE ROW, INCLUDING BUT NOT LIMITED TO VEHICLE ACCESS; STORAGE OF EQUIPMENT, MATERIALS, DEBRIS AND WASTE; LANDSCAPING; VEGETATION REMOVAL AND MANAGEMENT; GRADING, SEEDING AND THE INSTALLATION OF TURF; AND THE INSTALLATION OF ANY FENCES OR PROTECTIVE BARRIER.

IF CONTRACTOR IS UNABLE TO IDENTIFY THE LIMITS OF THE RIGHT-OF-WAY WHEN THE CONTRACT CALLS FOR WORK IN THOSE VICINITIES, THE CONTRACTOR MUST CONTACT THE PROJECT ENGINEER FOR DEFINITIVE BOUNDARY DETERMINATIONS BEFORE ANY WORK MAY BE INITIATED AT THOSE LOCATIONS (STANDARD SPECIFICATIONS SECTIONS 105-10 AND 625.

IN ACCORDANCE WITH SECTION 107-13 OF THE STANDARD SPECIFICATIONS, RELEASES FOR ANY NONESSENTIAL CONTRACT WORK OUTSIDE OF THE EXISTING RIGHTS-OF-WAY, INCLUDING PLANTINGS, LANDSCAPING OR DRIVEWAY ENHANCEMENT, WILL BE PROVIDED BY THE PROJECT ENGINEER AND IN NO INSTANCE ARE TO BE SECURE BY THE CONTRACTOR. THE CONTRACTOR SHALL NOT INVADE UPON PRIVATE PROPERTIES, LANDS OR BUILDINGS OUTSIDE OF THE RIGHTS-OF-WAY FOR ANY REASON WITHOUT FIRST SECURING WRITTEN PERMISSION FROM THE PROPERTY OWNER (STANDARD SPECIFICATIONS SECTIONS 105-15, 107-13).

THE CONTRACTOR WILL BE HELD LIABLE FOR ANY DAMAGES DONE. ANY SUCH INJURIES OF DAMAGES SHALL BE SATISFACTORILY REPAIRED OR ITEMS REPLACED AT THE CONTRACTOR'S EXPENSE (STANDARD SPECIFICATIONS SECTION 107-08 AND 107-13).

ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

GENERAL NOTES

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GENERAL

THE CONTRACTOR SHALL MAINTAIN TRAFFIC THROUGHOUT THE LENGTH AND DURATION OF THE CONTRACT IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 619 OF THE STANDARD SPECIFICATIONS, THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE NEW YORK STATE SUPPLEMENT, THE TRAFFIC CONTROL DETAILS IN THE PLANS AND PROPOSAL OR AOBE.

FOR TYPICAL APPLICATIONS OF TRAFFIC CONTROL DEVICES IN CONSTRUCTION AREAS NOT SPECIFIED IN THE PLANS, THE PROVISIONS OF PART 6 OF THE MUTCD SHALL APPLY. THE STANDARDS OF APPLICATION NOTED THEREIN AND ON THE PLANS ARE TO BE CONSIDERED MINIMUM STANDARDS. WHERE OPTIONS EXIST FOR SIGN SHAPE, THE DIAMOND SHAPE SHALL BE USED.

PRIOR TO THE START OF ANY WORK OPERATIONS, ALL RELATED WORK FOR PROPOSED TEMPORARY TRAFFIC CONTROL SHALL BE COMPLETE AND FULLY OPERATIONAL. THIS INCLUDES BUT IS NOT LIMITED TO, ALL SIGNS, TEMPORARY SIGNALS, RETIMING OF EXISTING SIGNALS, PAVEMENT MARKINGS, BARRIERS, DELINEATION (CONES, DRUMS, ETC.,), FLAGGERS, PAVEMENT MODIFICATIONS, AND ANY OTHER RELATED WORK AS DIRECTED BY THE ENGINEER IN CHARGE.

WEEDS, SHRUBBERY, CONSTRUCTION MATERIALS, EQUIPMENT, VEHICLES OR WORKERS SHALL NOT OBSCURE TRAFFIC CONTROL DEVICES OR OBSTRUCT TRAFFIC.

THE CONTRACTOR MUST SUBMIT TO THE ENGINEER, IN WRITING PROPOSED REVISIONS TO THE WZTC PLAN FOR REVIEW AND APPROVAL BY THIRTY (30) WORKING DAYS PRIOR TO THE PLANNED IMPLEMENTATION OF SUCH PROPOSED REVISIONS.

LANE CLOSURES

THE CONTRACTOR SHALL SCHEDULE WORK SO THAT ALL TRAVEL LANES EXCEPT IN THE ROAD CLOSURE AREA ARE OPEN WHEN THE CONTRACTOR'S OPERATIONS ARE CLOSED DOWN OR SUBSTANTIALLY CLOSED DOWN. THE MINIMUM WIDTH OF A TRAVELED LANE SHALL BE 10'-0" UNLESS OTHERWISE SHOWN IN THE PLANS OR PROPOSAL.

THE CONTRACTOR SHALL MAINTAIN TWO-WAY TRAFFIC AND SHALL PROVIDE FLAGGERS AS SHOWN IN PROPOSAL OR AOBE TO CONTROL TRAFFIC MOVEMENT AT THE SITE OF WORK FOR OPERATIONS REQUIRING TEMPORARY CLOSING OF PORTIONS OF THE TRAVELLED WAY.

WORK AREA COORDINATION

THE CONTRACTOR SHALL COORDINATE ALL CONTRACT WORK WITH ANY UTILITY WORK, SUBCONTRACTOR WORK, PUBLIC MAINTENANCE OPERATIONS, OR OTHER CONSTRUCTION ACTIVITIES IN THE AREA, TO ENSURE THAT THERE ARE NO WORK ZONE TRAFFIC CONTROL CONFLICTS AND THAT WORK ZONE TRAFFIC CONTROL COMPLIES WITH ALL STANDARDS.

WHEN TWO OR MORE WORK AREAS ARE ADJACENT, OVERLAP, OR ARE IN CLOSE PROXIMITY AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL ENSURE THERE IS NO CONFLICT IN SIGNING AND THAT LANE CONTINUITY IS MAINTAINED THROUGHOUT ALL WORK AREAS.

ALL VEHICLES, EQUIPMENT, WORKERS, AND TEMPORARY TRAFFIC CONTROL ZONES SHALL BE RESTRICTED TO ONE SIDE OF THE ROADWAY AT A TIME.

CONES, DRUMS, BARRICADES AND MARKERS

ALL CHANNELIZING/DELINEATION DEVICES ARE TO BE PLACED SO AS TO PROVIDE A MINIMUM OF 2'-0" CLEARANCE TO THE TRAVELED WAY UNLESS OTHERWISE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAKE CERTAIN THAT PLACEMENT OF CONES, DRUMS AND MARKERS, OR BARRICADES SHALL NOT INTERFERE WITH SIGHT DISTANCE.

WHERE POSSIBLE A LATERAL BUFFER SPACE OF 1'-0" SHALL BE PROVIDED BETWEEN THE WORK AREA AND THE LINE OF CHANNELIZING DEVICES. ONLY DRUMS OR 1 FT x 2 FT VERTICAL PANELS SHALL BE USED AS CHANNELIZING DEVICES DURING HOURS OF DARKNESS.

THE COST OF ANY DELINEATION AND GUIDING DEVICES (CONES, DRUMS, ETC.) SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01, BASIC WORK ZONE TRAFFIC CONTROL.

PUBLIC INGRESS AND EGRESS

THE CONTRACTOR SHALL PROVIDE PROPERTY OWNERS WITH PROPER ACCESS AOBE TO THEIR DRIVEWAYS AND SHALL MAINTAIN ACCESS THROUGH ALL PHASE WORK AREAS AND SHALL DELINEATE ACCESS BY MEANS OF SIGNS, CONES, AND OR DRUMS AOBE. THE COSTS FOR SIGNS AND ANY OTHER DELINEATION AND GUIDING DEVICES (CONES, DRUMS, ETC.) SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01, BASIC WORK ZONE TRAFFIC CONTROL.

WHERE DIRECT ACCESS TO DRIVEWAYS IS NOT POSSIBLE DUE TO NECESSARY CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PLAN ALTERNATE MEANS OF ACCESS AND SUBMIT SUCH PLANS TO THE ENGINEER FOR APPROVAL. OCCUPANT SHALL HAVE 24 HOURS NOTICE OF ANY CHANGES. COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01, BASIC WORK ZONE TRAFFIC CONTROL.

WHEN A SIDE ROAD OR DRIVEWAY INTERSECTS THE HIGHWAY WITHIN THE TEMPORARY TRAFFIC CONTROL ZONE, ADDITIONAL TRAFFIC CONTROL DEVICES SHALL BE ERECTED AND FLAGGERS POSTED AT APPROPRIATE LOCATIONS AOBE. ALL COSTS INVOLVED SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01, BASIC WORK ZONE TRAFFIC CONTROL.

CONSTRUCTION INGRESS AND EGRESS

EXCEPT WHERE BEHIND GUIDERAIL/BARRIER; VEHICLES, MATERIALS, AND/OR EQUIPMENT, INCLUDING OUT OF SERVICE SIGNS, SHALL NOT BE PARKED OR STORED WITHIN 30' OF A ROADWAY USED BY THE GENERAL PUBLIC OR ANY AREA TRAVERSABLE BY AN ERRANT VEHICLE OR ANY OTHER AREAS DEEMED HAZARDOUS BY THE EIC. VEHICLES OR EQUIPMENT ARE NOT TO BE PARKED WITHIN THE CLEAR ZONE AS SHOWN ON THE PLANS, ALONG THE ROADWAY USED BY THE GENERAL PUBLIC, OR ANY OTHER AREAS DEEMED HAZARDOUS BY THE ENGINEER.

VEHICLES PARKED BEHIND GUIDERAIL/BARRIER SHALL BE PARKED BEYOND THE DEFLECTION DISTANCE AND WITHIN THE POINT OF NEED COVERAGE OF THE GUIDERAIL/BARRIER SYSTEM.

THE CONTRACTOR SHALL NOT PARK EQUIPMENT WHERE IT WILL OBSTRUCT NORMAL TRAFFIC FLOW OR THE VIEW OF ONCOMING TRAFFIC.

VEHICLES BELONGING TO THE CONTRACTOR OR THE CONTRACTOR'S WORKERS SHALL NOT BE PARKED ON THE PAVEMENT OR SHOULDERS ALONG THE ROADWAY WHERE PARKING IS NOT NORMALLY PERMITTED.

SIGNS

THE CORRECT SEQUENCE AND SPACING OF APPROPRIATE SIGNS, WHETHER PERMANENT, TEMPORARY, OR CONSTRUCTION, MUST BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH THE MUTCD, CURRENT STANDARDS SHEETS OR AS MODIFIED IN THE PLANS, AND AS DIRECTED BY THE ENGINEER.

COLORS USED FOR CONSTRUCTION SIGNING (INCLUDING TEMPORARY OR MODIFIED GUIDE SIGNS) SHALL BE BLACK LEGEND ON ORANGE BACKGROUND WITH THE FOLLOWING EXCEPTIONS:

- EMERGENCY SERVICE MARKERS, ROUTE MARKERS AND THEIR CORRESPONDING AUXILIARY SIGNS SHALL BE THE COLORS SPECIFIED IN CHAPTER 2D OF THE MUTCD. (ANY AUXILIARY SIGNS WHICH ARE NOT INCLUDED IN THE MUTCD SHALL BE BLACK LEGEND ON ORANGE BACKGROUND).
- BLANK COVERS USED TO COVER PORTIONS OF EXISTING SIGNS SHALL BE OF A COLOR AND REFLECTORIZED MATERIAL MATCHING THAT OF THE SIGN BEING PARTIALLY COVERED. ANY REGULATORY SIGNS REQUIRED SHALL BE THE COLORS SPECIFIED IN THE MUTCD PART 6.
- SIGNS IN THE ADVANCED WARNING AREA SHALL BE POSTED PER TABLE NY6H-3.
- SIGNS WITHIN THE ACTIVITY AREA SHALL BE POSTED PER TABLE NY2C-4 OF THE NY STATE SUPPLEMENT. SIGN PLACEMENT SHALL BE IN ACCORDANCE WITH TABLE NY6H-3 AND AS DIRECTED BY THE ENGINEER BASED ON ACTUAL CONSTRUCTION CONDITIONS.

W8-1 'BUMP' SIGNS (36"x36") SHALL BE PLACED ON ALL APPROACHES AHEAD OF A BUMP OR DIP IN THE PAVEMENT CAUSED BY CONSTRUCTION OPERATIONS SUCH AS ROAD PLATES, MILLING PAVEMENT TERMINATION, ETC. NUMEROUS BUMPS OR DIPS SHALL WARRANT THE USE OF W8-8 'ROUGH ROAD' SIGNS INSTEAD OF W8-1 'BUMP' SIGNS. A W8-15 'GROOVED PAVEMENT' SIGN WITH A W8-15P SHALL PRECEDE MILLED AREAS THAT CONSTITUTE MORE THAN AN ISOLATED BUMP.

A OM1-3 MARKER LOCATED RIGHT AT OR IMMEDIATELY IN ADVANCE OF THE BUMP SHALL BE USED IN CONJUNCTION WITH THE W8-1 SIGN. A TYPE B FLASHING WARNING LIGHT SHALL BE USED WITH THE OM1-3 MARKER.

THE CONTRACTOR SHALL TAKE ALL ACTION, AS DIRECTED BY THE ENGINEER, TO ELIMINATE BUMPS. ONLY WHEN IT IS NOT POSSIBLE OR FEASIBLE, IN THE OPINION OF THE ENGINEER, TO ELIMINATE A BUMP SHALL IT BE ALLOWED TO REMAIN. BUMPS CAUSED BY MILLING SHALL BE RAMPED AT A MINIMUM RATE OF THE SPEED LIMIT HORIZONTAL TO 1 VERTICAL. I.E., 55MPH = 55 TO 1.

IF ADVANCE SIGNING OBSTRUCTS THE VISIBILITY OF THE FLAGGER OR CONFLICTS WITH DRIVEWAYS OR SIDE ROADS, SIGNS SHOULD BE MOVED UPSTREAM AS DIRECTED BY THE ENGINEER.

ALL SIGNS NECESSARY FOR THE WORK ZONE TRAFFIC CONTROL (INCLUDING RELOCATION AND/OR MODIFICATION AND/OR RESTORATION OF EXISTING SIGN PANELS) AS NOTED IN THE PLANS, STANDARD SPECIFICATIONS, MUTCD, OR AOBE SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01, BASIC WORK ZONE TRAFFIC CONTROL.

ALL SIGNS SHALL BE MOUNTED AT A HEIGHT OF 7'-0".

PAVEMENT MARKINGS

THE COST OF COVERING EXISTING PAVEMENT MARKINGS, WHERE REQUIRED, SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01, BASIC WORK ZONE TRAFFIC CONTROL.

PAVEMENT MARKINGS SHALL BE COVERED UTILIZING AN APPROVED PAVEMENT MARKING COVERING TAPE, SPECIFICALLY DESIGNED FOR THE PURPOSE OF COVERING PAVEMENT MARKINGS, AND APPROVED BY THE ENGINEER.

THE CONTRACTOR SHALL MAINTAIN PAVEMENT MARKINGS AT ALL TIMES ON ALL PAVEMENT, WHETHER EXISTING, TEMPORARY, OR NEW UNTIL PERMANENT MARKINGS ARE INSTALLED OR RESTORED. THIS SHALL INCLUDE AT ALL APPROPRIATE LOCATIONS, EDGE LINES, LANE LINES, CHANNELIZING LINES, CROSSWALKS, DOTTED LINES, PLUS ANY MARKINGS ORDERED BY THE ENGINEER. ALL MARKINGS SHALL BE APPLIED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND THE MUTCD.

WHERE PAVEMENT MARKINGS ARE REMOVED, THEY SHALL BE REMOVED BY A METHOD, SUBJECT TO APPROVAL BY THE ENGINEER, WHICH WILL FULLY REMOVE THE MARKINGS AND CAUSE NO SIGNIFICANT DAMAGE TO THE PAVEMENT.

FLAGGERS

WHEN FLAGGERS ARE BEING USED FOR TRAFFIC CONTROL PURPOSES, FLAGGER SIGNS (W20-7) SHALL BE PLACED AS SHOWN ON PLANS, PROPOSAL, OR AOBE ON ALL APPROACHES TO THE AREAS BEING FLAGGED. THE COST OF FLAGGER SIGNS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01, BASIC WORK ZONE TRAFFIC CONTROL. FLAGGER SIGNS SHALL NOT BE VISIBLE WHEN FLAGGERS ARE NOT BEING USED.

FLAGGERS SHALL USE THE FREE HAND FOR EMPHASIS AS SHOWN IN PART 6 OF THE MUTCD. EACH FLAGGER SHALL CONTROL NO MORE THAN ON APPROACH OF TRAFFIC.

STOP/SLOW PADDLES SHALL BE USED FOR FLAGGING AND SHALL CONFORM TO THE REQUIREMENTS IN THE MUTCD BUT SHALL BE A MINIMUM WIDTH OF 2'-0". THE COST OF THESE PADDLES AND ALL FLAGGERS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01, BASIC WORK ZONE TRAFFIC CONTROL.

FLAGGERS SHALL NOT POSITION THEMSELVES DIRECTLY IN THE PATH OF ONCOMING TRAFFIC. THE FLAGGER SHOULD STAND EITHER ON THE SHOULDER ADJACENT TO THE TRAFFIC BEING CONTROLLED, OR IN THE CLOSED/CHANNELIZED LANE. AT ALL TIMES, THE CONTRACTOR SHALL PROVIDE FLAGGERS WITH A CLEAR ESCAPE PATH, FREE OF PARKED VEHICLES, EQUIPMENT OR OTHER OBSTACLES.

THE CONTRACTOR SHALL PROVIDE FLAGGERS WHERE SIGHT DISTANCES ARE IMPAIRED BY THE OPERATION OR IN ANY OTHER SITUATION AOBE.

FLAGGERS SHALL BE REQUIRED TO USE TWO-WAY RADIOS, WALKIE-TALKIES, OR OTHER FORMS OF ENHANCED COMMUNICATION WHEN ONE FLAGGER IS NOT VISIBLE TO THE OTHER OR IF THE ENGINEER DEEMS IT NECESSARY. ALL COSTS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01, BASIC WORK ZONE TRAFFIC CONTROL.

THE ENGINEER SHALL DETERMINE THE NUMBER OF FLAGGERS NEEDED FOR EACH WORK ZONE. UNDER CERTAIN GEOMETRIC AND TRAFFIC SITUATIONS, MORE THAN ONE FLAGGER STATION MAY BE REQUIRED FOR EACH DIRECTION OF TRAFFIC.

FLAGGER STATIONS SHOULD BE VISIBLE FAR ENOUGH AHEAD TO PERMIT ALL VEHICLES TO STOP. THE FLAGGER SHOULD BE STATIONED FAR ENOUGH AHEAD OF THE WORK FORCE TO WARN THEM WITH PORTABLE AIR HORNS OF APPROACHING DANGER, SUCH AS VEHICLES OUT OF CONTROL.

FLAGGERS AND CONTRACTOR PERSONNEL SHALL ENSURE THE SAFETY OF PEDESTRIANS THROUGH THE WORK ZONE AS NECESSARY.

WHEN A SIDE ROAD OR DRIVEWAY INTERSECTS THE HIGHWAY WITHIN THE TEMPORARY TRAFFIC CONTROL ZONE, ADDITIONAL TRAFFIC CONTROL DEVICES AND FLAGGERS SHALL BE PROVIDED.

DROPOFFS

UNTIL SUCH TIME AS SHOULDER BACKUP MATERIAL IS PLACED, ANY DROPOFF OF 2 INCHES OR MORE SHALL BE CHANNELIZED WITH DRUMS AT 50 FT SPACING, OR 1 FT x 2 FT VERTICAL PANELS AT 25 FT SPACING. NYW4-13 "NO SHOULDER" SIGNS SHALL BE POSTED PRIOR TO THE START OF THE DROPOFF AND REPEATED JUST BEYOND EACH INTERSECTION. IN LIEU OF W16-4 AUXILIARY MILEAGE PANELS, "NO SHOULDER" SIGNS MAY BE POSTED EVERY 1000 FT, AND REPEATED AT INTERSECTIONS. "NO SHOULDER" SIGNS SHALL NOT BE NECESSARY FOR DROPOFFS LOCATED MORE THAN 5 FT FROM THE EDGE OF PAVEMENT, PROVIDED EDGE OF PAVEMENT MARKINGS, EITHER SHORT-TERM OR PERMANENT ARE INSTALLED. TWO TYPE "A" FLASHING WARNING LIGHTS SHALL BE PLACED AT THE START OF EACH CHANNELIZING RUN, AND REPEATED JUST BEYOND EACH INTERSECTION.

IN RECONSTRUCTION SECTIONS, THE CONTRACTOR SHALL PLAN LENGTHS OF WORK AREAS SO THAT AT THE END OF EACH SHIFT, AT A MINIMUM, THE PAVEMENT SHALL BE CONSTRUCTED UP THROUGH SUBBASE COURSE.

EMERGENCY SERVICES

THE CONTRACTOR SHALL KEEP ALL EMERGENCY SERVICES INCLUDING FIRE , POLICE AND AMBULANCE AWARE OF THE LOCATIONS WHERE WORK IS TAKING PLACE. THIS SHOULD BE DONE FIVE (5) WORKING DAYS PRIOR TO ANY SIGNIFICANT MOVING OPERATIONS TO ALLOW ADEQUATE TIME FOR THESE SERVICES TO MAKE CONTINGENCY PLANS SO MINIMIZE DELAY IN RESPONSE TIME.

CONSTRUCTION STAGING

THE 1.7 MILE PROJECT IS IN NARROW STREET RIGHT-OF WAY AND IN A FULLY DEVELOPED RESIDENTIAL VILLAGE SETTING. THE CONTRACTOR SHALL PREPARE THEIR BID SO THAT CONSTRUCTION IS COMPLETED IN A PHASED MANNER THAT REDUCES THE IMPACT TO MOTORISTS/THROUGH TRAFFIC /BICYCLISTS/PEDESTRIANS AND PRIVATE PROPERTIES. THE CONTRACTOR SHALL PREPARE AND KEEP CURRENT A CONSTRUCTION SCHEDULE THAT PROGRESSES THE WORK IN A SEQUENTIAL MANNER WITH 4 SEPARATE AND GENERALLY EQUAL LENGTH WORK AREAS OF 2,000 LINEAR FEET. THE WORK SHALL PROGRESS IN A MANNER THAT THE UNDERGROUND UTILITY WORK IS COMPLETED AND THE SURFACE TREATMENTS THAT INCLUDE CURBING, MILLING, LOWER COURSE PAVING, SIDEWALKS, AND DRIVEWAYS ARE SUBSTANTIALLY UNDERWAY BEFORE THE CONSTRUCTION MOVES TO THE NEXT WORK AREA.

MISCELLANEOUS

WORK ZONE TRAFFIC CONTROL IS CONSIDERED SPECIAL/SKILLED WORK, AND ALL PROVISIONS OF SECTION 105-02 OF THE STANDARD SPECIFICATIONS SHALL APPLY. A PERSON SHALL BE DESIGNATED AS THE PROJECT TRAFFIC CONTROL SUPERVISOR. THIS PERSONS NAME AND EXPERIENCE SHALL BE DOCUMENTED TO THE EIC. PAYMENT FOR SERVICES SHALL BE UNDER ITEM 619.01, TRAFFIC CONTROL SUPERVISOR. THIS PERSON SHALL HAVE NO OTHER DUTIES OUTSIDE OF WORK ZONE TRAFFIC CONTROL. A PROJECT-WIDE STOP WORK ORDER SHALL BE ISSUED IF THE TRAFFIC CONTROL SUPERVISOR IS OBSERVED ENGAGING IN ANY ACTIVITY OUTSIDE OF TRAFFIC CONTROL. THE STOP WORK ORDER SHALL BE LIFTED ONLY UPON THE EIC'S SATISFACTION WITH THE CONTRACTOR'S CORRECTIVE ACTION TO ENSURE THE TRAFFIC CONTROL SUPERVISOR DOES NOT ENGAGE IN ACTIVITIES OUTSIDE OF TRAFFIC CONTROL IN THE FUTURE.

ALL ROADWAY AREAS TEMPORARILY CLOSED FOR TRENCH, CULVERT, OR CONDUIT EXCAVATION, OR EXCAVATION REQUIRED FOR ALTERING DRAINAGE STRUCTURES SHALL BE REOPENED AT THE END OF THE WORK DAY. AT ALL TIMES WHEN WORK IS NOT IN PROGRESS, ALL OPENINGS IN THE ROADWAY SHALL BE COVERED WITH ANCHORED STEEL PLATES OR SHALL BE BACKFILLED IN ACCORDANCE WITH SECTION 203-3.06, SELECT GRANULAR FILL, TO A DEPTH 3 INCHES BELOW THE ADJACENT UNEXCAVATED AREA. THE TEMPORARY RESTORATION SHALL BE COMPLETED WITH A LAYER OF PLANT MIX BITUMINOUS MATERIAL UP TO THE LEVEL OF THE ADJACENT UNEXCAVATED AREA TO THE SATISFACTION OF THE ENGINEER. IF ANCHORED STEEL PLATES ARE THE CHOSEN OPTION, THE CONTRACTOR SHALL SUBMIT THE PROPOSED METHOD OF ANCHORING THE STEEL PLATES TO THE ENGINEER FOR APPROVAL PRIOR TO STARTING ANY ROADWAY EXCAVATION. THE STEEL PLATES SHALL BE RAMPED WITH A BITUMINOUS MATERIAL PRIOR TO OPENING THE LANE. THE COST OF THIS WORK, INCLUDING ALL LABOR, MATERIALS, EQUIPMENT, AND ANY RE-EXCAVATION OF TEMPORARILY RESTORED AREAS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01, BASIC WORK ZONE TRAFFIC CONTROL.

TEMPORARY HOT MIX ASPHALT WEDGES SHALL BE REQUIRED AT PAVEMENT TERMINATION AREAS IN ORDER TO PROVIDE A SMOOTH TRAVELED WAY. THE TAPER RATE BETWEEN THE EXISTING AND MILLED SURFACES SHALL BE 1 ON POSTED SPEED LIMIT. THE WEDGE MATERIAL SHALL BE THE SAME AS THE TOP COURSE ITEM USED IN THE CONTRACT OR EQUIVALENT, AOBE. THE COST OF NECESSARY CLEANING, TACK COAT, HMA PLACEMENT AND REMOVAL SHALL BE PAID FOR UNDER ITEM 619.01, BASIC WORK ZONE TRAFFIC CONTROL.

BICYCLE DETOUR

RIVER ROAD IS A DESIGNATED BICYCLE ROUTE. A SIGNED BICYCLE DETOUR ROUTE SHALL BE INCLUDED IN THIS PROJECT THAT (FROM THE SOUTH) BEGINS IN THE VILLAGE OF PIERMONT ON THE FOLLOWING ROUTE : PIERMONT AVE -ASH STREEET- NYS ROUTE 9W- S. BROADWAY- CORNELISON AVENUE AND ENDING AT PIERMNONT AVE. DETOUR SIGNS ARE BE PLACED ALONG THIS ROUTE IN BOTH A SOUTHERLY AND NORTHERLY DIRECTION. TYPICAL SIGNS ARE TO BE INCLUDED IN ITEM 619.01 FOLOWING NYSMUTCD STANDARDS:

SEE PROPOSAL APPENDIX H FOR CONTRACTOR'S WORK PERMIT APPLICATION



M4-9CL
(30 x 24)

TEMPORARY SIGNAL

THE TRAFFIC CONTROL INCLUDES TEMPORARY TRAFFIC SIGNALS AND TEMPORARY CONCRETE BARRIER ITEMS FOR LOCATIONS WHEN TWO - WAY TRAFFIC CONNOT BE RESTORED AT THE END OF A WORK DAY, AND STEEL PLATES WILL NOT ADEQUATELY PROTECT THE EXCAVATIONS TO REMAIN OVERNIGHT. THIS WILL BE DETERMINED ON CASE - BY - CASE LOCATION. THE INSTALLATION OF THE GAS MAIN TIE IN LOCATIONS AND THE STORM WATER TREATMENT SYSTEM STRUCTURES MAY REQUIRE OVERNIGHT SINGLE LANE TRAFFIC CONTROL.

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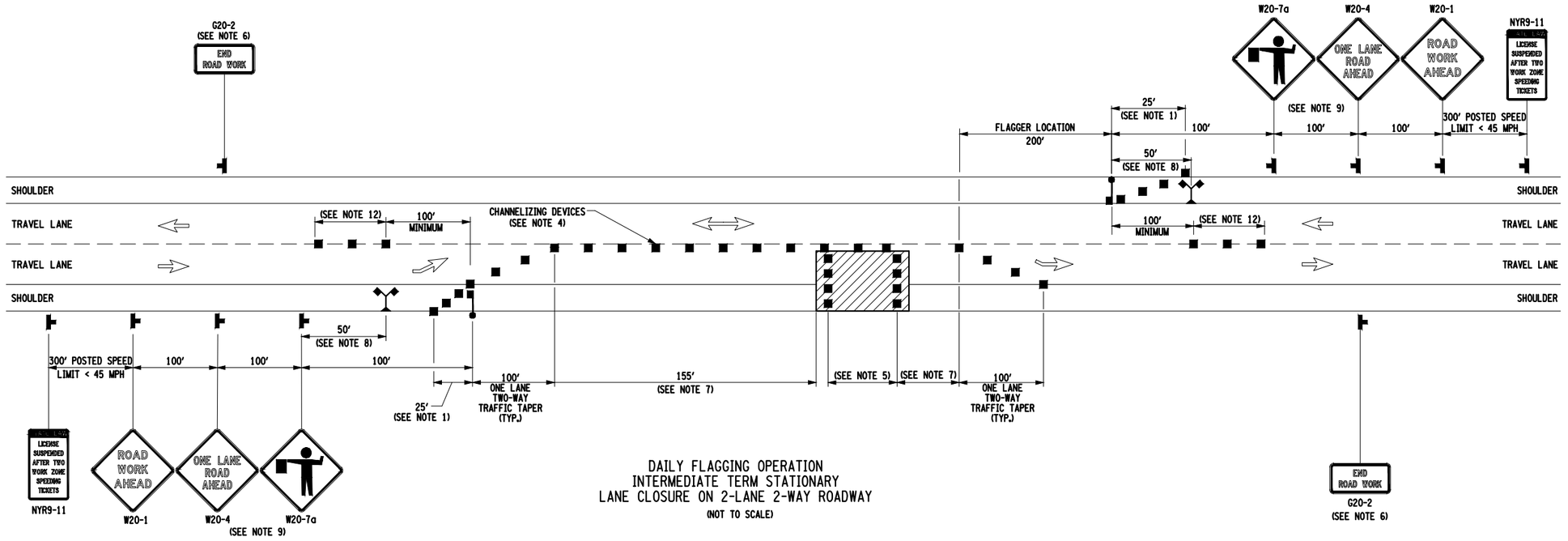
ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

WORK ZONE TRAFFIC CONTROL NOTES

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: NO SCALE	PROJ. NO.: 839.001.001
DWG No.: WZT-01		SHEET 7 of 104

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DAILY FLAGGING OPERATION
INTERMEDIATE TERM STATIONARY
LANE CLOSURE ON 2-LANE 2-WAY ROADWAY
(NOT TO SCALE)

NOTES:

1. WHEN PAVED SHOULDERS HAVING A WIDTH OF 8′ OR MORE ARE CLOSED, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK AREA AND DIRECT VEHICULAR TRAFFIC TO REMAIN IN THE TRAVEL WAY.
2. WHEN A SIDE ROAD OR DRIVEWAY INTERSECTS THE ROADWAY WITHIN A WORK ZONE TRAFFIC CONTROL AREA, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES AND/OR FLAGGERS SHALL BE PLACED AS NEEDED. ADDITIONAL FLAGGERS SHALL BE LOCATED AT ALL INTERSECTIONS AND COMMERCIAL DRIVEWAYS LOCATED WITHIN OR NEAR THE ACTIVE WORK SPACE.
3. NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.
4. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40′ IN THE ACTIVE WORK SPACE.
5. TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF 8′ OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 1500′.
6. THE END ROAD WORK SIGN (G20-2) SHALL BE PLACED A MAXIMUM OF 500′ PAST THE END OF THE WORK SPACE.
7. WHERE DIRECTED BY THE ENGINEER, A BUFFER SPACE SHALL BE PROVIDED IN ORDER TO LOCATE THE ONE-LANE, TWO-WAY TRAFFIC TAPER PRIOR TO ANY HORIZONTAL OR VERTICAL CURVE, IN ORDER TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE FLAGGERS AND/OR A QUEUE OF STOPPED VEHICLES.
8. THE FLAG TREE SHALL BE LOCAED ON THE SHOULDER, AT APPROXIMATELY THE DISTANCE BETWEEN THE FLAGGER SIGN (W20-7a) AND THE FLAGGER.
9. FLAGGER SIGN (W20-7a) AND THE ONE LANE ROAD SIGN (W20-4) SHALL BE REMOVED, COVERED OR TURNED FROM ROAD USERS WHEN FLAGGING OPERATIONS ARE NOT OCCURRING.
10. FLAGGER AND FLAG TREE SHALL BE ILLUMINATED TO LEVEL II ILLUMINATION DURING NIGHT TIME OPERATIONS.
11. ALL FLAGGERS SHALL USE 24" (MIN.) OCTAGON SHAPED STOP/SLOW PADDLES HAVE A 6′ STAFF.
12. CENTERLINE CHANNELIZING DEVICES ARE OPTIONAL AND MAY BE ELIMINATED WHERE SPACE CONSTRAINTS EXIST.

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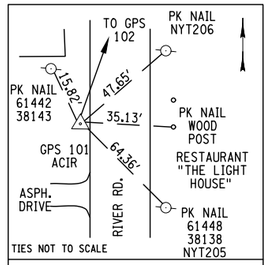
ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

WORK ZONE TRAFFIC CONTROL PLAN

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		DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
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		DWG No.: WZT-02		SHEET 8 of 104

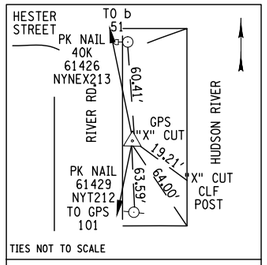
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ACIR SET 5.0′ WEST OF WEST EDGE OF RIVER ROAD @ BACK OF CONC. WALK, 21.0′ NORTH OF NORTH EDGE OF DRIVE FOR HOUSE * 706.

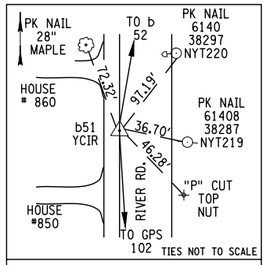
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GPS 102 18+19.53

AN "X" CUT IN R.R.SPIKE SET 4.5′ EAST OF E.P. OF RIVER RD., 45.0′ +/- SOUTH OF HESTER STREET AND RIVER RD INTERSECTION.

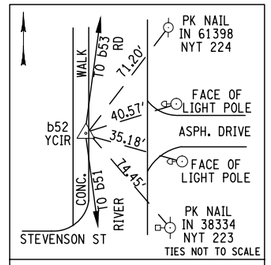
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b51 25+16.77

YCIR SET @ BACK CONCRETE CURB @ WALK APPROX. 500.0′ +/- SOUTH OF STEVENSON STREET AND RIVER ROAD.

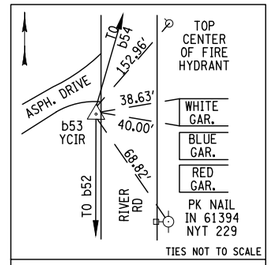
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b52 30+56.28

SET 40.0′+/- NORTHERLY OF STEVENSON ST., ACROSS FROM ST. JOHN'S CHURCH; BETWEEN BACK OF CURB AND THE CONC. SIDEWALK

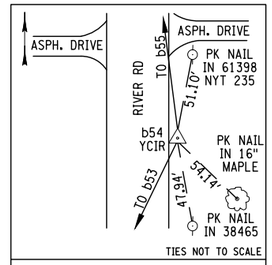
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b53 38+09.25

SET 1.0′+/- SOUTHERLY OF ASPH. DRIVE TO HOUSE * 279, 650.0′+/- NORTHERLY OF STEVENSON ST

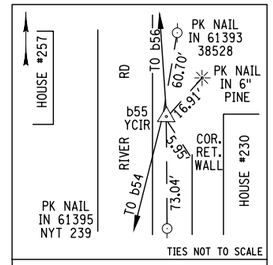
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b54 43+51.66

YCIR SET AT THE BACK OF CURB, 52′+/- SOUTHERLY OFASPH. DRIVE TO HOUSE *262

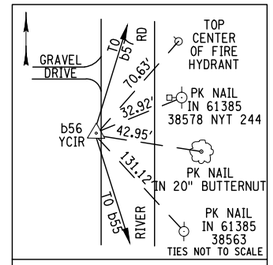
NYSPCS EAST ZONE NAD 83/96
N: 809905.193
E: 652150.141
EL: 23.36



b55 48+77.92

SET 1.2′+/- EAST OF EDGE OF PAVEMENT RIVER RD, OPPOSITE OF HOUSE #230 AND 82.0′+/- NORTHERLY OF ASPHALT DRIVE TO HOUSE #230

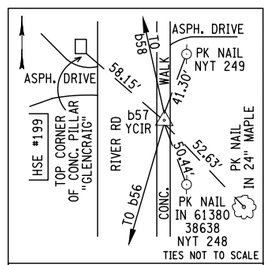
NYSPCS EAST ZONE NAD 83/96
N: 810430.157
E: 652113.306
EL: 24.51



b56 54+17.17

SET 3.0′+/- WESTERLY OF EDGE OF RIVER RD AND 27.0′ +/- SOUTHERLY OF GRAVEL DRIVE TO HOUSES #217&219

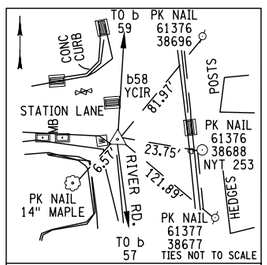
NYSPCS EAST ZONE NAD 83/96
N: 810958.556
E: 652005.660
EL: 29.11



b57 60+86.07

SET 1.0′+/- EASTERLY OF EDGE OF RIVER RD AND 51.0′+/- SOUTHERLY OF ASPHALT DRIVE TO HOUSE *192

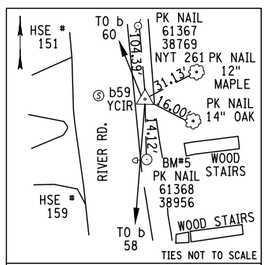
NYSPCS EAST ZONE NAD 83/96
N: 811626.798
E: 651976.068
EL: 24.22



b58 65+51.82

YCIR SET AT SOUTHWEST CORNER INTERSECTION OF STATION LANE AND RIVER ROAD @ EDGE OF PAVEMENT ON RIVER ROAD.

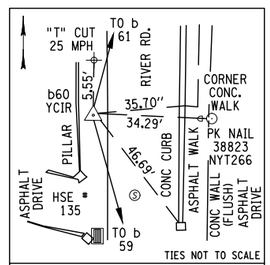
NYSPCS EAST ZONE NAD 83/96
N: 812089.151
E: 651919.864
EL: 24.65



b59 72+43.08

YCIR SET 2.7′ EAST OF THE EDGE OF PAVEMENT OF RIVER ROAD OPPOSITE DRIVEWAY EXTENTION FOR HOUSE * 151 AND 159.

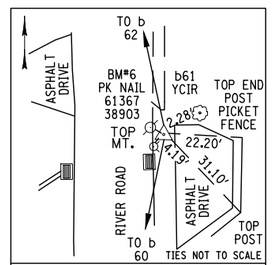
NYSPCS EAST ZONE NAD 83/96
N: 812777.880
E: 651860.797
EL: 32.72



b60 78+74.73

YCIR SET 3.5′ ON WEST EDGE OF RIVER ROAD 27.0′ NORTH OF DRIVEWAY FOR HOUSE * 135

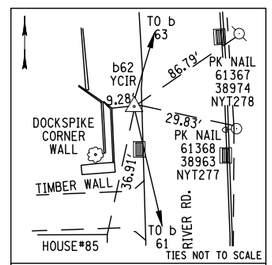
NYSPCS EAST ZONE NAD 83/96
N: 813406.049
E: 651794.623
EL: 32.02



b61 87+13.60

YCIR SET 3.0′ EAST OF EDGE OF PAVEMENT ON RIVER ROAD, 60.0′ NORTH OF NORTH WEST CORNER OF HOUSE * 47.

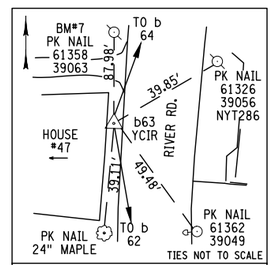
NYSPCS EAST ZONE NAD 83/96
N: 814242.730
E: 651855.188
EL: 26.03



b62 93+27.59

YCIR SET 2.5′ WEST OF EDGE OF PAVEMENT ON RIVER ROAD, 18.0′ NORTH OF CONE DRIVE FOR HOUSE *35.

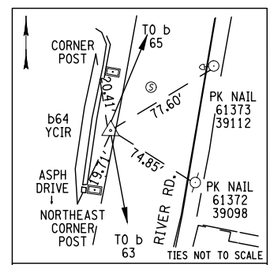
NYSPCS EAST ZONE NAD 83/96
N: 814856.094
E: 651827.443
EL: 28.00



b63 102+18.29

YCIR SET 3′ WEST OF EDGE OF PAVEMENTON RIVER ROAD 57′ SOUTH OF ASPH. DRIVE FOR HOUSE * 47.

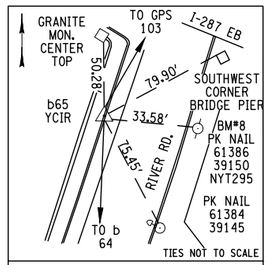
NYSPCS EAST ZONE NAD 83/96
N: 815745.445
E: 651778.362
EL: 37.50



b64 107+38.48

YCIR SET @ EDGE OF PAVEMENT 23.0′ NORTH OF DRIVE FOR HOUSE *33.

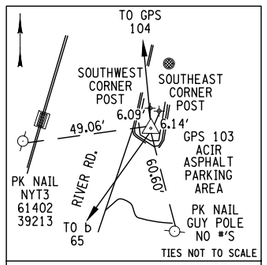
NYSPCS EAST ZONE NAD 83/96
N: 816253.978
E: 651887.869
EL: 27.20



b65 112+24.13

YCIR SET 3.0′ EAST OF THE EAST EDGE OF RIVER ROAD IN GRASS MEDIAN, 35.0′ +/- SOUTH OF INTERSECTION WITH SALISBURY PLACE.

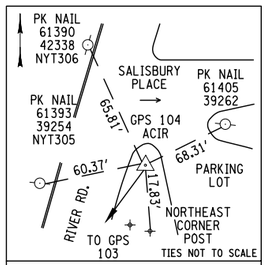
NYSPCS EAST ZONE NAD 83/96
N: 816722.201
E: 652016.800
EL: 11.79



GPS 103 117+29.92

ACIR SET 5.0′ EAST OF EAST EDGE OF RIVER RD. IN GRAVEL MEDIAN FOR SALISBURY POINT PARKING LOT AREA, 170.0′ +/- NORTH OF I-287 BRIDGE OVERPASS.

NYSPCS EAST ZONE NAD 83/96
N: 817175.156
E: 652241.851
EL: 8.05



GPS 104 123+32.15

ACIR SET 3.0′ ON THE EAST EDGE OF RIVER RD. IN GRASS MEDIAN, 35.0′ +/- SOUTH OF INTERSECTION WITH SALISBURY PLACE.

NYSPCS EAST ZONE NAD 83/96
N: 817769.819
E: 652146.681
EL: 44.60

TABLE OF BENCHMARKS

BM NO.	POLE NO.	ELEVATION
2	NYT 229 61394	31.47
3	NYT 239 61395	25.37
4	NYT 248 61380	25.81
5	NYT 260 61368	33.95
6	61387 38903	26.93
7	61358 39063	38.05
8	61386 39150	12.39

NOTE: ALL BENCHMARKS ARE RR SPIKES SET IN WOOD UTILITY POLES LISTED ABOVE.

C&S Engineers, Inc.
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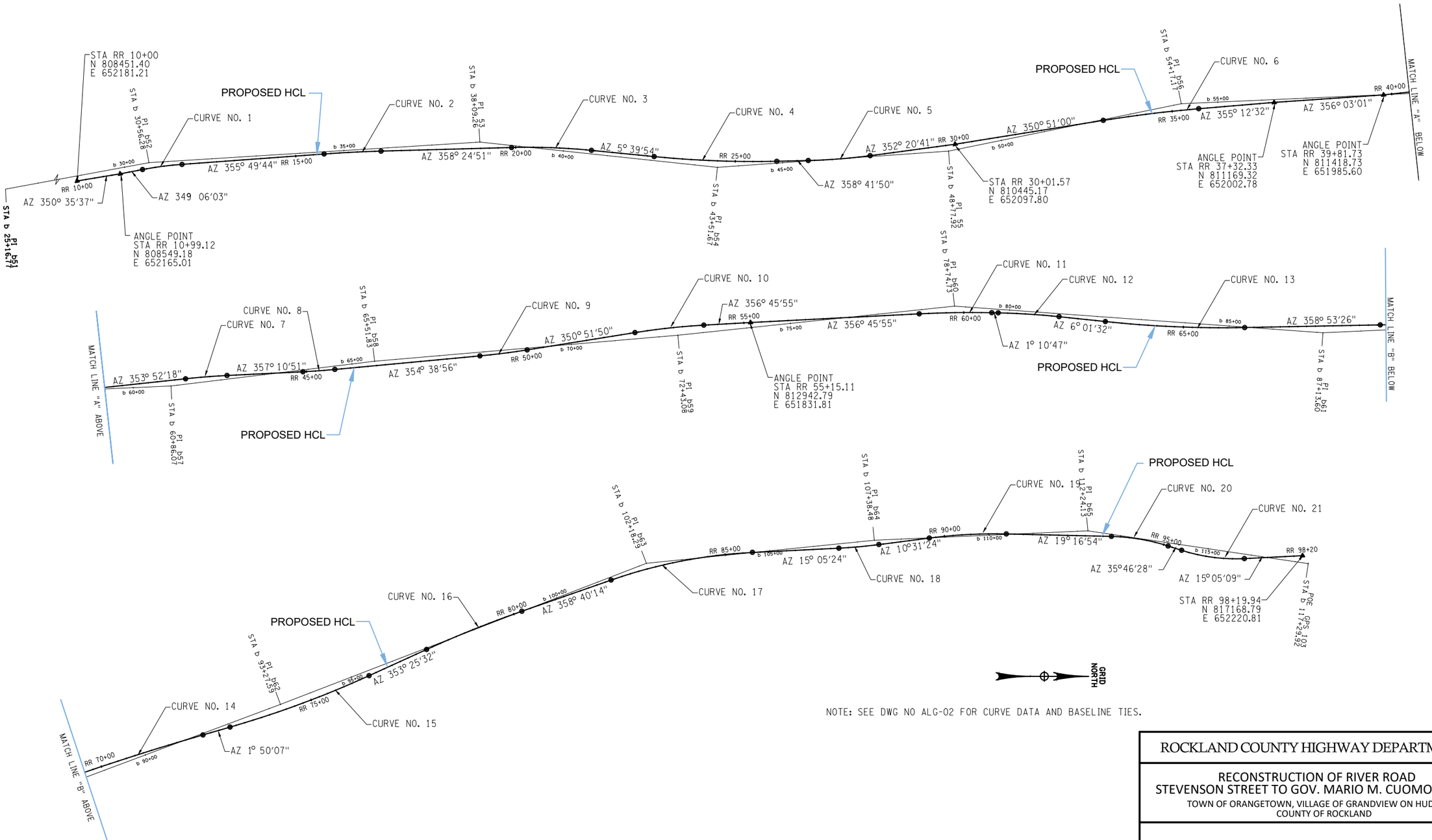
ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

BASELINE TIES AND BENCHMARKS

AS-BUILT REVISIONS	DATE			
		DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
		DATE: NOV 2020	SCALE: AS SHOWN	PROJ. NO.: 839.001.001
		DWG No.: BTL-01		SHEET 9 of 104

F:\Project\839 - Rockland County\839001001 River Road CR1\CADD\Project Files\Current Autocad Files\875522_btl.dwg Layout: Mst-01 Plot Date Nov 30 20 Time: 10:06 AM



NOTE: SEE DWG NO ALG-02 FOR CURVE DATA AND BASELINE TIES.

C&S Engineers, Inc.
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ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

ALIGNMENT PLAN

AS-BUILT REVISIONS	DATE		
		DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
		DATE: NOV 2020	SCALE: NO SCALE	PROJ. NO.: 839.001.001
		DWG No.: ALG-01		SHEET 10 of 104

F:\Project\839 - Rockland County\839001001 River Road CR1\CADD\Project Files\Current Autocad Files\875522b2_alg Pln 01.dwg Layout: Layout1 Plot Date Nov 30 20 Time: 10:06 AM

CURVE NO. 1			
PC	RR 11+50.78	808599.91	652155.24
PI	RR 11+95.69	808644.01	652146.75
PT	RR 12+40.49	808688.80	652143.48
Radius:	763.94 FT		
Delta:	6°43'41.0" RT		
Degree of Curvature :	7°30'00"		
Length:	89.71 FT		
Tangent:	44.91 FT		
Chord:	89.66 FT		
Middle Ordinate:	1.32 FT		
External:	1.32 FT		

CURVE NO. 2			
PC	RR 15+64.78	809012.23	652119.89
PI	RR 16+29.42	809076.70	652115.19
PT	RR 16+94.04	809141.32	652113.40
Radius:	2864.79 FT		
Delta:	2°35'06.9" RT		
Degree of Curvature	2°00'00.0"		
Length:	129.26 FT		
Tangent:	64.64 FT		
Chord:	129.25 FT		
Middle Ordinate:	.73 FT		
External:	.73 FT		

CURVE NO. 3			
PC	RR 19+90.88	809438.04	652105.19
PI	RR 20+81.64	809528.76	652102.68
PT	RR 21+72.15	809619.07	652111.63
Radius:	1432.4 FT		
Delta:	7°15'02.6" RT		
Degree of Curvature	4°00'00.0"		
Length:	181.27 FT		
Tangent:	90.76 FT		
Chord:	181.15 FT		
Middle Ordinate:	2.87 FT		
External:	2.87 FT		

CURVE NO. 4			
PC	RR 23+15.49	809761.71	652125.78
PI	RR 24+55.01	809900.55	652139.56
PT	RR 25+94.19	810040.04	652136.38
Radius:	2291.83 FT		
Delta:	6°58'03.5" LT		
Degree of Curvature	2°30'00.0"		
Length:	278.71 FT		
Tangent:	139.52 FT		
Chord:	278.53 FT		
Middle Ordinate:	4.24 FT		
External:	4.24 FT		

CURVE NO. 5			
PC	RR 26+65.72	810111.55	652134.76
PI	RR 27+36.37	810182.19	652133.15
PT	RR 28+06.88	810252.21	652123.74
Radius:	1273.24 FT		
Delta:	6°21'08.9" Left		
Degree of Curvature	4°30'00.0"		
Length:	141.17 FT		
Tangent:	70.66 FT		
Chord:	141.09 FT		
Middle Ordinate:	1.96 FT		
External:	1.96 FT		

CURVE NO. 6			
PC	RR 33+42.64	810781.89	652043.57
PI	RR 34+51.67	810889.53	652026.23
PT	RR 35+60.59	810998.18	652017.12
Radius:	2864.79 FT		
Delta:	4°21'32.5" RT		
Degree of Curvature	2°00'00.0"		
Length:	217.95 FT		
Tangent:	109.03 FT		
Chord:	217.9 FT		
Middle Ordinate:	2.07 FT		
External:	2.07 FT		

CURVE NO. 7			
PC	RR 42+24.93	811659.93	651959.64
PI	RR 42+72.22	811706.95	651954.59
PT	RR 43+19.48	811754.18	651952.26
Radius:	1637.02		
Delta:	3°18'33.4" Right		
Degree of Curvature	3°30'00.0"		
Length:	94.55		
Tangent:	47.29		
Chord:	94.54		
Middle Ordinate:	0.68		
External:	0.68		

CURVE NO. 8			
PC	RR 44+91.91	811926.41	651943.78
PI	RR 45+28.08	811962.54	651942.00
PT	RR 45+64.25	811998.56	651938.63
Radius:	1637.02 FT		
Delta:	2°31'54.7" Left		
Degree of Curvature	3°30'00.0"		
Length:	72.34 FT		
Tangent:	36.18 FT		
Chord:	72.33 FT		
Middle Ordinate:	.4 FT		
External:	.4 FT		

CURVE NO. 9			
PC	RR 48+95.52	812328.38	651907.74
PI	RR 49+49.61	812382.24	651902.69
PT	RR 50+03.66	812435.64	651894.10
Radius:	1637.02 FT		
Delta:	3°47'06.0" LT		
Degree of Curvature	3°30'00.0"		
Length:	108.14 FT		
Tangent:	54.09 FT		
Chord:	108.12 FT		
Middle Ordinate:	.89 FT		
External:	.89 FT		

CURVE NO. 10			
PC	RR 52+51.46	812680.30	651854.76
PI	RR 53+30.21	812758.05	651842.25
PT	RR 54+08.83	812836.68	651837.81
Radius:	1527.89 FT		
Delta:	5°54'04.9" RT		
Degree of Curvature	3°45'00.0"		
Length:	157.37 FT		
Tangent:	78.75 FT		
Chord:	157.3 FT		
Middle Ordinate:	2.03 FT		
External:	2.03 FT		

CURVE NO. 11			
PC	RR 58+98.81	813325.99	651812.16
PI	RR 59+81.16	813408.23	651807.94
PT	RR 60+63.44	813490.56	651809.64
Radius:	2291.83 FT		
Delta:	4°06'55.9" RT		
Degree of Curvature	2°30'00.0"		
Length:	164.62 FT		
Tangent:	82.35 FT		
Chord:	164.59 FT		
Middle Ordinate:	1.48 FT		
External:	1.48 FT		

CURVE NO. 12			
PC	RR 60+78.15	813505.27	651809.94
PI	RR 61+47.42	813574.52	651811.37
PT	RR 62+16.60	813643.41	651818.64
Radius:	1637.02 FT		
Delta:	4°50'45.0" RT		
Degree of Curvature	3°30'00.0"		
Length:	138.45 FT		
Tangent:	69.27 FT		
Chord:	138.41 FT		
Middle Ordinate:	1.46 FT		
External:	1.46 FT		

CURVE NO. 13			
PC	RR 63+22.41	813748.63	651829.75
PI	RR 64+81.17	813906.52	651846.41
PT	RR 66+39.53	814065.25	651843.34
Radius:	2546.48 FT		
Delta:	7°08'06.5" LT		
Degree of Curvature	2°15'00.0"		
Length:	317.12 FT		
Tangent:	158.76 FT		
Chord:	316.91 FT		
Middle Ordinate:	4.93 FT		
External:	4.94 FT		

CURVE NO. 14			
PC	RR 69+47.27	814372.94	651837.38
PI	RR 70+94.55	814520.19	651834.53
PT	RR 72+41.75	814667.38	651839.24
Radius:	5729.58 FT		
Delta:	2°56'41.4" RT		
Degree of Curvature	1°00'00.0"		
Length:	294.48 FT		
Tangent:	147.27 FT		
Chord:	294.45 FT		
Middle Ordinate:	1.89 FT		
External:	1.89 FT		

CURVE NO. 15			
PC	RR 73+06.15	814731.74	651841.31
PI	RR 74+74.64	814900.15	651846.70
PT	RR 76+42.53	815067.54	651827.41
Radius:	2291.83 FT		
Delta:	8°24'34.8" LT		
Degree of Curvature	2°30'00.0"		
Length:	336.39 FT		
Tangent:	168.5 FT		
Chord:	336.08 FT		
Middle Ordinate:	6.17 FT		
External:	6.19 FT		

CURVE NO. 16			
PC	RR 77+86.28	815210.34	651810.95
PI	RR 79+02.92	815326.21	651797.60
PT	RR 80+19.39	815442.82	651794.89
Radius:	2546.48 FT		
Delta:	5°14'42.0" RT		
Degree of Curvature	2°15'00.0"		
Length:	233.11 FT		
Tangent:	116.64 FT		
Chord:	233.03 FT		
Middle Ordinate:	2.67 FT		
External:	2.67 FT		

CURVE NO. 17			
PC	RR 82+34.07	815657.44	651789.91
PI	RR 83+99.39	815822.72	651786.08
PT	RR 85+62.45	815982.34	651829.12
Radius:	1145.92 FT		
Delta:	16°25'09.5" RT		
Degree of Curvature	5°00'00.0"		
Length:	328.39 FT		
Tangent:	165.33 FT		
Chord:	327.26 FT		
Middle Ordinate:	11.74 FT		
External:	11.86 FT		

CURVE NO. 18			
PC	RR 87+58.78	816171.90	651880.23
PI	RR 88+04.47	816216.02	651892.12
PT	RR 88+50.12	816260.94	651900.47
Radius:	1145.92 FT		
Delta:	4°33'59.8" LT		
Degree of Curvature	5°00'00.0"		
Length:	91.33 FT		
Tangent:	45.69 FT		
Chord:	91.31 FT		
Middle Ordinate:	.91 FT		
External:	.91 FT		

CURVE NO. 19			
PC	RR 89+65.62	816374.50	651921.56
PI	RR 90+53.38	816460.78	651937.59
PT	RR 91+40.79	816543.61	651966.57
Radius:	1145.92 FT		
Delta:	8°45'29.8" RT		
Degree of Curvature	5°00'00.0"		
Length:	175.17 FT		
Tangent:	87.75 FT		
Chord:	175. FT		
Middle Ordinate:	3.35 FT		
External:	3.36 FT		

CURVE NO. 20			
PC	RR 93+80.18	816769.58	652045.62
PI	RR 94+45.74	816831.46	652067.26
PT	RR 95+10.38	816884.64	652105.59
Radius:	452.32 FT		
Delta:	16°29'34.7" RT		
Degree of Curvature	12°40'01.2"		
Length:	130.2 FT		
Tangent:	65.56 FT		
Chord:	129.76 FT		
Middle Ordinate:	4.68 FT		
External:	4.73 FT		

CURVE NO. 21			
PC	RR 95+42.94	816911.05	652124.62
PI	RR 96+15.95	816970.29	652167.30
PT	RR 96+87.37	817040.78	652186.30
Radius:	400. FT		
Delta:	20°41'19.1" LT		
Degree of Curvature	14°19'26.2"		
Length:	144.43 FT		
Tangent:	73.01 FT		
Chord:	143.65 FT		
Middle Ordinate:	6.5 FT		
External:	6.61 FT		

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CURVE DATA

AS-BUILT REVISIONS	DATE			
		DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
		DATE: NOV 2020	SCALE: NO SCALE	PROJ. NO.: 839.001.001
		DWG No.: ALG-02		SHEET 11 of 104

F:\Project\839 - Rockland County\839001001 River Road CR1\CADD\Project Files\Current Autocad Files\875522b2_alg Pln 02.dwg Layout: Layout1 Plot Date Nov 30 20 Time: 10:06 AM

TABLE OF EXISTING FENCES ITEM 607.97000008 - REMOVE AND RESET EXISTING FENCE				
STATION FROM	STATION TO	SIDE	LENGTH (LT)	TYPE OF FENCE
RR 14+73.44	RR 15+41.75	RT	68	WOOD PICKET 3FT HIGH
RR 25+52.32	RR 27+36.07	RT	184	WOOD STOCKADE 4FT HIGH
RR 57+48.23	RR 58+43.44	RT	95	WOOD POST & RAIL 3.5FT HIGH
RR 61+55.33	RR 62+96.34	RT	141	WOOD POST & RAIL 3.5FT HIGH
TOTAL			488	

TABLE OF STORM DRAIN OUTLETS STONE FILLING - MEDIUM 620.04					
STA	LENGTH (FT)	WIDTH (FT)	DEPTH (FT)	VOLUME (CY)	Outlet
RR 12+00 RT	15.00	10.00	2.00	11.11	End of Existing Culvert
RR 25+45 RT	0.00	0.00	0.00	0.00	Exit Ret wall
RR 28+90 RT	0.00	0.00	0.00	0.00	Exit Ret wall
RR 36+75 RT	0.00	0.00	0.00	0.00	Connect to Pipe
RR 45+45 RT	0.00	0.00	0.00	0.00	Conndct to Pipe
RR 57+25 RT	0.00	0.00	0.00	0.00	Connect to Pipe
RR 65+05 RT	10.00	8.00	1.25	3.70	End New Pipe
RR 68+55 RT	10.00	8.00	1.25	3.70	End New Pipe
RR 74+15 RT	0.00	0.00	0.00	0.00	Connect to Pipe
RR 91+90 RT	0.00	0.00	0.00	0.00	Existing Manhole
			TOTAL:	18.52	

ITEM 604.070801 ITEM 604.070802 ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES			
STATION	OFFSET (FT)	SIDE	QTY. (EA)
RR 11+02	C.L.	-	1
RR 12+87	2.1	LT	1
RR 16+75	C.L.	-	1
RR 17+29	4.7	LT	1
RR 18+73	4.1	LT	1
RR 21+34	C.L.	-	1
RR 24+18	2.5	LT	1
RR 26+05	C.L.	-	1
RR 27+84	C.L.	-	1
RR 31+00	2.2	LT	1
RR 33+95	3.0	LT	1
RR 36+89	26.4	LT	1
RR 36+97	C.L.	-	1
RR 40+00	3.0	LT	1
RR 43+01	3.3	LT	1
RR 46+01	C.L.	-	1
RR 49+01	C.L.	-	1
RR 52+01	3.5	LT	1
RR 53+51	C.L.	-	1
RR 56+51	5.1	LT	1
RR 59+52	2.8	LT	1
RR 62+31	C.L.	-	1
RR 66+10	25.5	RT	1
RR 66+19	2.6	LT	1
RR 70+00	4.0	LT	1
RR 73+51	3.6	LT	1
RR 75+75	3.6	LT	1
RR 82+57	4.4	LT	1
RR 83+68	C.L.	-	1
RR 84+63	3.2	LT	1
RR 88+56	2.4	LT	1
RR 90+82	5.4	LT	1
RR 93+68	7.1	LT	1
RR 93+97	36.1	LT	1
RR 94+09	38.7	LT	1
RR 94+14	23.5	LT	1
TOTAL			36
ITEM 604.070801			24
ITEM 604.070802			12

ITEM 605.1502 (LF) PERFORATED POLYETHYLENE UNDERDRAIN TUBING - 6" DIAMETER					
DRAWING NO.	DRAINAGE NO.	LENGTH (LF)	DRAWING NO.	DRAINAGE NO.	LENGTH (LF)
DRN-01	DS 1-2	10	DRN-09	DS 9-1	5
DRN-02	DS 2-4	5		DS 9-4	5
	DS 2-5	5		DS 9-5	10
	DS 2-7	5	DRN-10	DS 10-3	5
	DS 2-7A	5		DS 10-5	10
DRN-03	DS 3-1	5	DRN-11	DS 11-3	10
	DS 3-3	5		DS 11-4	5
	DS 3-4	10	DRN-12	DS 12-3	10
DRN-04	DS 4-2	10		DS 12-5	5
	DS 4-3	5	DRN-13	DS 13-2	10
	DS 4-5	5		DS 13-4	5
DRN-05	DS 5-2	5	DRN-14	DS 14-2	5
	DS 5-4	10		DS 14-4	5
	DS 5-5	5		DS 14-5	5
DRN-06	DS 6-1	5		DS 14-6	5
	DS 6-2	5	DRN-15	DS 15-1	5
	DS 6-7	5		DS 15-3	5
DRN-07	DS 7-1	5		DS 15-4	10
	DS 7-2	5			
	DS 7-5	5			
	DS 7-9	5			
DRN-08	DS 8-1	5			
	DS 8-2	5			
	DS 8-4	5			
	TOTAL:	140		TOTAL:	120

Added for unanticipated field conditions:

SAY: **260**

PREPARED BY:

CHECKED BY:

COMP DATE:

Estimate Summary

C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
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ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

MISCELLANEOUS TABLES

AS-BUILT REVISIONS	DATE		
		DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
		DATE: NOV 2020	SCALE: NO SCALE	PROJ. NO.: 839.001.001
		DWG No.: MST-01		SHEET 12 of 104

F:\Project\839 - Rockland County\839001001 River Road CR1\CADD\Project Files\Current Autocad Files\875522b2_misc Tab 01.dwg Layout: Layout1 Plot Date Nov 30 20 Time: 11:12 AM

ITEM 609.0203 (LF)

GRANITE CURBING - TYPE C

FROM STATION	TO STATION	SIDE	LENGTH	COMMENT
RR 10+50	RR 10+83	LT	32.9	FULL HEIGHT
RR 10+83	RR 10+91	LT	8.5	CURB RETURN R=14.5'
RR 10+91	RR 11+24	LT	32.7	CURB RETURN R=12.5'
RR 11+24	RR 12+05	LT	80.8	FULL HEIGHT
RR 12+05	RR 12+32	LT	27.0	DRWY-DROP CURB
RR 12+32	RR 13+67	LT	134.8	FULL HEIGHT
RR 13+67	RR 13+86	LT	19.4	DRWY-DROP CURB
RR 13+86	RR 13+95	LT	9.0	FULL HEIGHT
RR 13+95	RR 14+48	LT	52.5	DRWY-DROP CURB
RR 14+48	RR 14+52	LT	4.6	FULL HEIGHT
RR 14+52	RR 14+86	LT	33.6	DRWY-DROP CURB
RR 14+86	RR 15+71	LT	85.6	FULL HEIGHT
RR 15+71	RR 16+60	LT	88.5	DRWY-DROP CURB
RR 16+60	RR 17+04	LT	44.4	FULL HEIGHT
RR 17+04	RR 17+40	LT	35.6	DRWY-DROP CURB
RR 17+40	RR 18+08	LT	68.2	FULL HEIGHT
RR 18+08	RR 18+56	LT	47.8	DRWY-DROP CURB
RR 18+56	RR 19+15	LT	59.5	FULL HEIGHT
RR 19+15	RR 19+42	LT	26.4	DRWY-DROP CURB
RR 19+42	RR 20+23	LT	81.7	FULL HEIGHT
RR 20+23	RR 20+48	LT	24.3	DRWY-DROP CURB
RR 20+48	RR 21+09	LT	61.7	FULL HEIGHT
RR 21+09	RR 21+45	LT	36.1	DRWY-DROP CURB
RR 21+45	RR 22+75	LT	130.0	FULL HEIGHT
RR 22+75	RR 23+17	LT	42.0	DRWY-DROP CURB
RR 23+17	RR 25+10	LT	192.8	FULL HEIGHT
RR 25+10	RR 25+62	LT	52.1	DRWY-DROP CURB
RR 25+62	RR 27+22	LT	159.5	FULL HEIGHT
RR 27+22	RR 27+65	LT	43.6	DRWY-DROP CURB
RR 27+65	RR 28+78	LT	113.1	FULL HEIGHT
RR 28+78	RR 29+04	LT	25.1	DRWY-DROP CURB
RR 29+04	RR 30+24	LT	120.9	FULL HEIGHT
RR 30+24	RR 30+52	LT	27.4	DRWY-DROP CURB
RR 30+52	RR 30+56	LT	3.8	FULL HEIGHT
RR 30+56	RR 30+82	LT	25.9	DRWY-DROP CURB
RR 30+82	RR 33+50	LT	268.0	FULL HEIGHT
RR 33+50	RR 33+87	LT	37.8	DRWY-DROP CURB
RR 33+87	RR 35+29	LT	142.0	FULL HEIGHT
RR 35+29	RR 35+73	LT	43.3	DRWY-DROP CURB
RR 35+73	RR 36+98	LT	125.6	FULL HEIGHT
RR 36+98	RR 37+87	LT	88.3	DRWY-DROP CURB
RR 37+87	RR 38+15	LT	28.1	FULL HEIGHT
RR 38+15	RR 42+08	LT	392.9	DRWY-DROP CURB
RR 42+08	RR 42+43	LT	35.2	FULL HEIGHT
RR 42+43	RR 43+77	LT	134.5	DRWY-DROP CURB
RR 43+77	RR 43+97	LT	19.7	FULL HEIGHT
RR 43+97	RR 45+20	LT	122.6	DRWY-DROP CURB
RR 45+20	RR 45+40	LT	20.9	FULL HEIGHT
RR 45+40	RR 46+48	LT	107.8	DRWY-DROP CURB
RR 46+48	RR 46+58	LT	9.9	FULL HEIGHT
TOTAL:			**3,608.2**	

FROM STATION	TO STATION	SIDE	LENGTH	COMMENT
RR 46+58	RR 46+76	LT	17.5	CURB RETURN R=10'
RR 46+76	RR 46+86	LT	10.0	
RR 46+86	RR 47+94	LT	108.4	
RR 47+94	RR 48+24	LT	29.6	DRWY-DROP CURB
RR 48+24	RR 49+23	LT	99.7	
RR 49+23	RR 49+47	LT	24.1	DRWY-DROP CURB
RR 49+47	RR 50+24	LT	76.8	
RR 50+24	RR 50+49	LT	24.9	DRWY-DROP CURB
RR 50+49	RR 51+50	LT	100.4	
RR 51+50	RR 51+72	LT	22.1	DRWY-DROP CURB
RR 51+72	RR 53+23	LT	151.5	
RR 53+23	RR 53+65	LT	41.5	DRWY-DROP CURB
RR 53+65	RR 55+74	LT	209.2	
RR 55+74	RR 56+08	LT	34.6	DRWY-DROP CURB
RR 56+08	RR 56+87	LT	78.1	
RR 56+87	RR 57+39	LT	52.7	DRWY-DROP CURB
RR 57+39	RR 58+79	LT	140.2	
RR 58+79	RR 59+20	LT	41.1	DRWY-DROP CURB
RR 59+20	RR 59+37	LT	16.3	
RR 59+37	RR 59+63	LT	26.2	DRWY-DROP CURB
RR 59+63	RR 62+53	LT	289.9	
RR 62+53	RR 63+01	LT	48.1	DRWY-DROP CURB
RR 63+01	RR 64+64	LT	162.9	
RR 64+64	RR 64+95	LT	31.7	DRWY-DROP CURB
RR 64+95	RR 65+05	LT	9.4	
RR 65+05	RR 65+35	LT	30.2	DRWY-DROP CURB
RR 65+35	RR 66+66	LT	130.8	
RR 66+66	RR 67+04	LT	38.4	DRWY-DROP CURB
RR 67+04	RR 68+23	LT	118.7	
RR 68+23	RR 68+54	LT	30.6	DRWY-DROP CURB
RR 68+54	RR 71+98	LT	344.9	
RR 71+98	RR 72+99	LT	100.6	DRWY-DROP CURB
RR 72+99	RR 73+88	LT	88.8	
RR 73+88	RR 74+20	LT	32.4	DRWY-DROP CURB
RR 74+20	RR 74+33	LT	12.5	
RR 74+33	RR 75+02	LT	68.9	DRWY-DROP CURB
RR 75+02	RR 75+23	LT	21.4	
RR 75+23	RR 75+44	LT	21.3	DRWY-DROP CURB
RR 75+44	RR 75+93	LT	48.3	
RR 75+93	RR 76+20	LT	27.2	DRWY-DROP CURB
RR 76+20	RR 76+28	LT	8.2	
RR 76+28	RR 76+57	LT	28.7	DRWY-DROP CURB
RR 76+57	RR 80+58	LT	401.0	
RR 80+58	RR 80+89	LT	31.7	DRWY-DROP CURB
RR 80+89	RR 83+73	LT	283.4	
RR 83+73	RR 83+95	LT	22.4	DRWY-DROP CURB
RR 83+95	RR 84+10	LT	14.9	
RR 84+10	RR 84+39	LT	29.4	DRWY-DROP CURB
RR 84+39	RR 84+74	LT	35.1	
RR 84+74	RR 85+09	LT	34.6	DRWY-DROP CURB
TOTAL:			**3,850.9**	

FROM STATION	TO STATION	SIDE	LENGTH	COMMENT
RR 85+09	RR 86+56	LT	147.1	
RR 86+56	RR 86+96	LT	40.0	DRWY-DROP CURB
RR 86+96	RR 87+91	LT	94.3	
RR 87+91	RR 88+25	LT	34.7	DRWY-DROP CURB
RR 88+25	RR 88+65	LT	39.9	
RR 88+65	RR 88+99	LT	33.7	DRWY-DROP CURB
RR 88+99	RR 90+14	LT	114.8	
RR 90+14	RR 90+36	LT	21.9	DRWY-DROP CURB
RR 90+36	RR 91+17	LT	81.4	
RR 91+17	RR 91+43	LT	26.1	DRWY-DROP CURB
RR 91+43	RR 93+71	LT	228.0	
RR 93+71	RR 93+86	LT	14.6	DRWY-DROP CURB
RR 93+86	RR 94+02	LT	16.7	
RR 94+02	RR 94+03	LT	0.6	DRWY-DROP CURB
RR 94+03	RR 94+17	LT	14.1	
RR 94+17	RR 94+31	LT	13.8	DRWY-DROP CURB
TOTAL:			**921.7**	

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TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
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MISCELLANEOUS TABLES

AS-BUILT REVISIONS	DATE			
		DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
		DATE: NOV 2020	SCALE: NO SCALE	PROJ. NO.: 839.001.001
		DWG No.: MST-02		SHEET 13 of 104

F:\Project\839 - Rockland County\839001001 River Road CR1\CADD\Project Files\Current Autocad Files\875522b2_misc Tab 02.dwg Layout: Layout1 Plot Date Nov 30 20 Time: 11:32 AM

ITEM 609.0203 (LF)
GRANITE CURBING - TYPE C

FROM STATION	TO STATION	SIDE	LENGTH	COMMENT
RR 10+50.00	RR 11+56.75	RT	106.8	
RR 11+56.75	RR 11+96.17	RT	39.4	DRWY-DROP CURB
RR 11+96.17	RR 12+00.15	RT	4.0	
RR 12+00.15	RR 12+81.26	RT	81.1	DRWY-DROP CURB
RR 12+81.26	RR 13+98.46	RT	117.2	
RR 13+98.46	RR 14+34.53	RT	36.1	DRWY-DROP CURB
RR 14+34.53	RR 15+34.65	RT	100.1	
RR 15+34.65	RR 15+68.25	RT	33.6	DRWY-DROP CURB
RR 15+68.25	RR 15+73.47	RT	5.2	
RR 15+73.47	RR 16+09.34	RT	35.9	DRWY-DROP CURB
RR 16+09.34	RR 17+87.97	RT	178.6	
RR 17+87.97	RR 18+42.00	RT	54.0	DRWY-DROP CURB
RR 18+42.00	RR 18+68.10	RT	26.1	
RR 18+68.10	RR 19+31.18	RT	63.1	DRWY-DROP CURB
RR 19+31.18	RR 19+82.17	RT	51.0	
RR 19+82.17	RR 20+69.44	RT	87.3	DRWY-DROP CURB
RR 20+69.44	RR 21+68.44	RT	99.0	
RR 21+68.44	RR 21+94.36	RT	25.9	DRWY-DROP CURB
RR 21+94.36	RR 22+74.98	RT	80.6	
RR 22+74.98	RR 23+39.32	RT	64.3	DRWY-DROP CURB
RR 23+39.32	RR 25+07.54	RT	168.2	
RR 25+07.54	RR 25+56.97	RT	49.4	DRWY-DROP CURB
RR 25+56.97	RR 28+47.51	RT	290.5	
RR 28+47.51	RR 28+78.21	RT	30.7	DRWY-DROP CURB
RR 28+78.21	RR 30+98.95	RT	220.7	
RR 30+98.95	RR 31+25.13	RT	26.2	DRWY-DROP CURB
RR 31+25.13	RR 31+68.54	RT	43.4	
RR 31+68.54	RR 32+00.16	RT	31.6	DRWY-DROP CURB
RR 32+00.16	RR 38+09.44	RT	609.3	
RR 38+09.44	RR 38+39.77	RT	30.3	DRWY-DROP CURB
RR 38+39.77	RR 39+75.35	RT	135.6	
RR 39+75.35	RR 40+03.90	RT	28.6	DRWY-DROP CURB
RR 40+03.90	RR 42+35.17	RT	231.3	
RR 42+35.17	RR 42+63.76	RT	28.6	DRWY-DROP CURB
RR 42+63.76	RR 43+83.22	RT	119.5	
RR 43+83.22	RR 44+24.26	RT	41.0	DRWY-DROP CURB
RR 44+24.26	RR 46+34.33	RT	210.1	
RR 46+34.33	RR 46+53.33	RT	19.0	DRWY-DROP CURB
RR 46+53.33	RR 46+97.82	RT	44.5	
RR 46+97.82	RR 47+20.65	RT	22.8	DRWY-DROP CURB
RR 47+20.65	RR 47+96.40	RT	75.8	
RR 47+96.40	RR 48+29.36	RT	33.0	DRWY-DROP CURB
RR 48+29.36	RR 50+19.88	RT	190.5	
RR 50+19.88	RR 50+50.88	RT	31.0	DRWY-DROP CURB
RR 50+50.88	RR 50+57.80	RT	6.9	
RR 50+57.80	RR 50+93.68	RT	35.9	DRWY-DROP CURB
RR 50+93.68	RR 51+23.16	RT	29.5	
RR 51+23.16	RR 51+59.80	RT	36.6	DRWY-DROP CURB
RR 51+59.80	RR 58+53.36	RT	693.6	
RR 58+53.36	RR 59+42.72	RT	89.4	DRWY-DROP CURB
TOTAL:			**4,892.7**	

FROM STATION	TO STATION	SIDE	LENGTH	COMMENT
RR 59+42.72	RR 66+02.47	RT	659.8	
RR 66+02.47	RR 66+54.43	RT	52.0	DRWY-DROP CURB
RR 66+54.43	RR 67+82.99	RT	128.6	
RR 67+82.99	RR 68+79.55	RT	96.6	DRWY-DROP CURB
RR 68+79.55	RR 71+73.56	RT	294.0	
RR 71+73.56	RR 72+09.56	RT	36.0	DRWY-DROP CURB
RR 72+09.56	RR 73+04.90	RT	95.3	
RR 73+04.90	RR 73+32.17	RT	27.3	DRWY-DROP CURB
RR 73+32.17	RR 74+89.57	RT	157.4	
RR 74+89.57	RR 75+42.18	RT	52.6	DRWY-DROP CURB
RR 75+42.18	RR 76+22.91	RT	80.7	
RR 76+22.91	RR 76+46.29	RT	23.4	DRWY-DROP CURB
RR 76+46.29	RR 77+39.35	RT	93.1	
RR 77+39.35	RR 77+63.88	RT	24.5	DRWY-DROP CURB
RR 77+63.88	RR 78+36.69	RT	72.8	
RR 78+36.69	RR 78+61.48	RT	24.8	DRWY-DROP CURB
RR 78+61.48	RR 79+39.69	RT	78.2	
RR 79+39.69	RR 80+81.71	RT	142.0	DRWY-DROP CURB
RR 80+81.71	RR 82+09.92	RT	128.2	
RR 82+09.92	RR 82+38.03	RT	28.1	DRWY-DROP CURB
RR 82+38.03	RR 82+58.49	RT	20.5	
RR 82+58.49	RR 83+73.50	RT	115.0	DRWY-DROP CURB
RR 83+73.50	RR 83+89.90	RT	16.4	
RR 83+89.90	RR 84+16.28	RT	26.4	DRWY-DROP CURB
RR 84+16.28	RR 84+22.02	RT	5.7	
RR 84+22.02	RR 84+83.17	RT	61.1	DRWY-DROP CURB
RR 84+83.17	RR 85+44.97	RT	61.8	
RR 85+44.97	RR 86+57.25	RT	112.3	DRWY-DROP CURB
RR 86+57.25	RR 86+86.91	RT	29.7	
RR 86+86.91	RR 87+16.72	RT	29.8	DRWY-DROP CURB
RR 87+16.72	RR 87+97.39	RT	80.7	
RR 87+97.39	RR 88+26.33	RT	28.9	DRWY-DROP CURB
RR 88+26.33	RR 89+38.60	RT	112.3	
RR 89+38.60	RR 89+70.14	RT	31.5	DRWY-DROP CURB
RR 89+70.14	RR 90+43.66	RT	73.5	
RR 90+43.66	RR 90+73.41	RT	29.8	DRWY-DROP CURB
RR 90+73.41	RR 90+99.32	RT	25.9	
RR 90+99.32	RR 91+47.21	RT	47.9	DRWY-DROP CURB
RR 91+47.21	RR 93+89.80	RT	242.6	
RR 93+89.80	RR 94+08.29	RT	18.5	DRWY-DROP CURB
TOTAL:			**3,465.6**	

ITEM 606.1001
BOX BEAM GUIDE RAILING WITH EXTRA LONG POSTS

FROM STATION	TO STATION	SIDE	UNIT	QTY. (LF)	PAYMENT FACTOR	PAY QTY. (LF)
RR 16+87.04	RR 17+76.94	RT	LF	89.9	1.0	89.9
RR 23+80.08	RR 25+02.62	RT	LF	122.5	1.0	122.5
RR 25+51.12	RR 28+08.06	RT	LF	256.9	1.0	256.9
RR 32+08.13	RR 34+02.67	RT	LF	194.5	1.0	194.5
RR 34+08.13	RR 35+49.83	RT	LF	141.7	1.0	141.7
RR 35+53.59	RR 37+43.34	RT	LF	189.8	1.0	189.8
RR 38+27.90	RR 39+72.03	RT	LF	144.1	1.0	144.1
RR 40+93.00	RR 42+17.93	RT	LF	124.9	1.0	124.9
RR 42+58.73	RR 43+72.52	RT	LF	113.8	1.0	113.8
RR 44+28.54	RR 46+07.95	RT	LF	179.4	1.0	179.4
RR 48+19.30	RR 49+19.40	RT	LF	100.1	1.0	100.1
RR 52+63.35	RR 52+95.61	RT	LF	32.3	1.0	32.3
RR 52+99.85	RR 53+22.70	RT	LF	22.8	1.0	22.8
RR 53+27.88	RR 54+51.48	RT	LF	123.6	1.0	123.6
RR 54+55.66	RR 55+09.57	RT	LF	53.9	1.0	53.9
RR 55+86.29	RR 56+26.00	RT	LF	39.7	1.0	39.7
RR 56+30.55	RR 57+37.83	RT	LF	107.3	1.0	107.3
RR 57+41.44	RR 58+36.43	RT	LF	95.0	1.0	95.0
RR 59+36.84	RR 62+76.62	RT	LF	339.8	1.0	339.8
RR 62+83.52	RR 65+32.50	RT	LF	249.0	1.0	249.0
RR 65+43.30	RR 65+96.59	RT	LF	53.3	1.0	53.3
RR 68+67.26	RR 69+86.23	RT	LF	119.0	1.0	119.0
RR 72+25.01	RR 72+78.64	RT	LF	53.6	1.0	53.6
RR 88+43.12	RR 89+37.26	RT	LF	94.1	1.0	94.1
					TOTAL	3041.1

ITEM 606.120101
BOX BEAM END PIECE

STATION	SIDE	QUANTITY (EA)
RR 16+94.04	RT	1
RR 17+83.94	RT	1
RR 23+87.08	RT	1
RR 25+09.62	RT	1
RR 25+58.12	RT	1
RR 28+15.06	RT	1
RR 32+15.13	RT	1
RR 34+09.67	RT	1
RR 34+15.13	RT	1
RR 35+56.83	RT	1
RR 35+60.59	RT	1
RR 37+50.34	RT	1
RR 38+34.90	RT	1
RR 39+79.03	RT	1
RR 41+00.00	RT	1
RR 42+24.93	RT	1
RR 42+65.73	RT	1
RR 43+79.52	RT	1
RR 44+35.54	RT	1
RR 46+14.95	RT	1
RR 48+26.30	RT	1
RR 49+26.40	RT	1
RR 52+70.35	RT	1
RR 53+02.61	RT	1
TOTAL:		**24**

STATION	SIDE	QUANTITY (EA)
RR 53+06.85	RT	1
RR 53+29.70	RT	1
RR 53+34.88	RT	1
RR 54+58.48	RT	1
RR 54+62.66	RT	1
RR 55+16.57	RT	1
RR 55+93.29	RT	1
RR 56+33.00	RT	1
RR 56+37.55	RT	1
RR 57+44.83	RT	1
RR 57+48.44	RT	1
RR 58+43.43	RT	1
RR 59+43.84	RT	1
RR 62+83.62	RT	1
RR 62+90.52	RT	1
RR 65+39.50	RT	1
RR 65+50.30	RT	1
RR 66+03.59	RT	1
RR 68+74.26	RT	1
RR 69+93.23	RT	1
RR 72+32.01	RT	1
RR 72+85.64	RT	1
RR 88+50.12	RT	1
RR 89+44.26	RT	1
TOTAL:		**24**

ITEM 606.71 (LF)
REMOVING AND DISPOSING OF CORRUGATED BEAM GUIDE RAILING

PLAN SHEET	COMMENTS	FROM STATION	TO STATION	SIDE	LENGTH
PLN-05		RR 37+04.60	RR 37+63.60	RT	59.00
PLN-09	NO END ASSEMBLY	RR 55+93.00	RR 57+38.00	RT	145.00
PLN-10		RR 64+12.00	RR 64+71.00	RT	59.00
				TOTAL:	**263.00**

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ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

MISCELLANEOUS TABLES

AS-BUILT REVISIONS	DATE

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: NO SCALE	PROJ. NO.: 839.001.001
DWG No.: MST-03		SHEET 14 of 104

F:\Project\839 - Rockland County\839001001 River Road CR1\CADD\Project Files\Current Autocad Files\875522b2_misc Tab 03.dwg Layout: Layout1 Plot Date Nov 30 20 Time: 11:36 AM

BY OTHERS ADJUST EXISTING GAS / UNKNOWN VALVE BOX ELEVATION							
STATION	SIDE	OFFSET (FT)	QTY. (EA)	STATION	SIDE	OFFSET (FT)	QTY. (EA)
RR 11+10.41	LT	4.40	1	UNKNOWN			
RR 14+27.73	RT	16.50	1	RR 11+37.71	RT	14.60	1
RR 15+15.18	RT	13.80	1	RR 11+74.75	LT	13.30	1
RR 18+35.52	LT	13.80	1	RR 25+50.32	RT	19.80	1
RR 19+75.35	RT	15.50	1				
RR 21+28.78	RT	14.20	1				
RR 22+40.43	RT	13.60	1				
RR 23+06.98	LT	13.40	1				
RR 24+46.84	RT	18.20	1				
RR 30+49.62	RT	16.40	1				
RR 37+92.64	RT	16.00	1				
RR 42+27.33	LT	17.40	1				
RR 46+71.16	LT	19.90	1				
RR 46+71.67	LT	18.30	1				
RR 48+42.48	LT	12.60	1				
RR 50+46.62	RT	15.20	1				
RR 51+54.04	LT	21.20	1				
RR 58+83.69	RT	12.60	1				
RR 67+56.53	RT	14.70	1				
RR 70+19.94	RT	16.30	1				
RR 73+00.54	RT	14.60	1				
RR 76+12.23	RT	19.70	1				
RR 77+08.61	RT	16.40	1				
RR 88+12.63	RT	16.10	1				
RR 88+67.20	RT	20.63	2				
RR 90+52.35	LT	18.50	1				
RR 90+64.53	RT	23.50	1				
RR 91+20.27	LT	16.40	1				
TOTAL			29				3

TABLE OF HYDRANTS RELOCATIONS BY OTHERS				
HCL STATION	SIDE	C.L. OFFSET (FT)	R.O.W. OFFSET (FT)	COMMENTS
RR 10+81.90	RT	16.4	14.4	RET. WALL 2' IN BEHIND
RR 16+30.70	RT	14.8	17.0	FENCE 1.5' BEHIND GUIDE RAIL
RR 20+69.90	RT	14.0	19.4	RET. WALL 3' IN FRONT OF R.O.W. LINE
RR 24+01.60	RT	15.0	16.2	GUIDE RAIL, RET WALL 4' BEHIND ROW
RR 27+40.60	RT	16.0	16.9	GUIDE RAIL & RET WALL
RR 31+50.20	RT	14.9	16.9	FENCE BEHIND
RR 35+86.60	RT	15.1	17.3	GUIDE RAIL
RR 39+69.60	RT	15.9	16.4	GUIDE RAIL
RR 44+24.30	RT	15.7	16.8	
RR 47+26.60	RT	12.7	17.2	RET. WALL AT R.O.W. LINE
RR 50+43.80	RT	14.2	16.4	
RR 54+67.30	RT	14.5	17.5	GUIDE RAIL
RR 59+21.50	RT	16.9	16.0	
RR 63+14.30	RT	14.6	17.0	GUIDE RAIL
RR 68+12.90	RT	13.5	17.2	
RR 72+38.10	RT	17.8	16.6	GUIDE RAIL
RR 76+47.80	RT	16.0	17.8	
RR 80+96.30	RT	15.6	17.6	
RR 85+21.40	RT	16.4	17.1	
RR 89+03.10	RT	15.0	17.8	GUIDE RAIL
RR 93+75.30	LT	19.8	35.0	

ITEM 663.33 ADJUST EXISTING WATER VALVE BOX ELEVATION							
STATION	SIDE	OFFSET (FT)	QTY. (EA)	STATION	SIDE	OFFSET (FT)	QTY. (EA)
RR 10+82	RT	7.46	1	RR 61+34	RT	13.93	1
RR 11+11	RT	3.84	1	RR 62+79	LT	23.41	1
RR 11+72	LT	20.01	1	RR 62+96	LT	15.53	1
RR 12+23	LT	14.23	1	RR 63+14	RT	9.34	1
RR 12+39	RT	17.65	1	RR 63+38	LT	17.21	1
RR 12+95	LT	18.04	1	RR 65+10	RT	17.97	1
RR 13+68	LT	17.38	1	RR 66+64	RT	19.39	1
RR 15+18	RT	21.89	1	RR 66+73	LT	18.52	1
RR 15+39	LT	26.26	1	RR 67+45	RT	18.40	1
RR 16+31	RT	8.50	1	RR 70+18	LT	18.74	1
RR 17+51	LT	23.54	1	RR 71+44	LT	22.87	1
RR 17+93	LT	20.89	1	RR 72+06	RT	17.43	1
RR 18+91	LT	15.30	1	RR 72+24	LT	17.48	1
RR 19+39	LT	16.38	1	RR 72+38	RT	9.85	1
RR 19+66	RT	19.31	1	RR 73+12	RT	19.64	1
RR 21+26	RT	11.47	1	RR 73+13	LT	18.59	1
RR 23+21	LT	18.09	1	RR 74+55	RT	16.29	1
RR 23+34	RT	14.73	1	RR 76+07	RT	15.14	1
RR 24+02	RT	8.59	1	RR 76+48	RT	10.33	1
RR 28+09	LT	16.17	1	RR 76+89	RT	14.51	1
RR 28+33	RT	13.40	1	RR 78+01	RT	17.17	1
RR 28+65	RT	16.79	1	RR 78+29	LT	17.53	1
RR 29+11	LT	17.69	1	RR 79+19	RT	15.74	1
RR 30+31	LT	22.26	1	RR 80+21	RT	13.61	1
RR 30+80	RT	14.01	1	RR 80+50	LT	33.92	1
RR 33+58	LT	25.01	1	RR 80+55	LT	34.19	1
RR 33+95	LT	19.42	1	RR 80+90	RT	21.51	1
RR 35+86	RT	9.65	1	RR 80+91	RT	13.27	1
RR 36+35	LT	17.72	1	RR 82+26	LT	20.87	1
RR 37+12	LT	19.00	1	RR 83+04	RT	18.72	1
RR 37+15	LT	19.26	1	RR 83+71	RT	19.44	1
RR 37+46	RT	13.35	1	RR 83+72	RT	18.50	1
RR 40+90	RT	18.87	1	RR 84+59	RT	19.07	1
RR 41+81	RT	16.96	1	RR 85+25	RT	14.22	1
RR 43+56	RT	21.20	1	RR 85+26	RT	14.30	1
RR 43+89	LT	17.04	1	RR 85+42	LT	14.57	1
RR 43+91	LT	18.66	1	RR 86+32	RT	17.61	1
RR 47+50	RT	12.73	1	RR 88+01	RT	15.06	1
RR 48+35	LT	19.33	1	RR 88+07	LT	14.38	1
RR 49+32	RT	13.76	1	RR 88+39	LT	12.80	1
RR 51+52	LT	21.86	1	RR 89+32	LT	16.56	1
RR 52+73	LT	11.38	1	RR 90+41	RT	16.12	1
RR 58+22	LT	12.65	1	RR 91+54	RT	30.45	1
RR 58+91	RT	13.17	1	RR 93+88	LT	28.89	1
RR 59+12	RT	8.25	1	RR 97+52	RT	3.72	1
RR 61+13	LT	23.03	1				
TOTAL							91

TABLE OF SIDEWALK CURB RAMPS			
STATION	SIDE	RAMP TYPE	COMMENTS
RR 10+85	LT	2	SW QUADRANT-STEVENSON ST
RR 11+20	LT	4	NW QUADRANT-STEVENSON ST
RR 11+20	RT	9	NE QUADRANT-STEVENSON ST
RR 46+78	RT	9	OPPOSITE STATION LANE
RR 94+00	RT	9	OPPOSITE BIGHT LANE
RR 94+05	LT	4	NW QUADRANT-BIGHT LANE

TABLE OF GAS MAIN RELOCATIONS			
FROM STATION	TO STATION	LENGTH	COMMENTS
LINEAR FEET OF GAS MAIN OFFSET IN TRENCH RUN			
RR 13+75	RR 15+25	150	SEE DWG MD-02 FOR DETAIL
RR 22+50	RR 23+50	100	SEE DWG MD-02 FOR DETAIL
RR 28+60	RR 30+60	200	SEE DWG MD-02 FOR DETAIL
RR 32+04	RR 35+81	377	SEE DWG MD-02 FOR DETAIL
RR 49+75	RR 51+60	185	SEE DWG MD-02 FOR DETAIL
RR 55+60	RR 57+40	180	SEE DWG MD-02 FOR DETAIL
RR 73+75	RR 74+25	50	SEE DWG MD-02 FOR DETAIL
CROSSINGS AT DRAINAGE LATERALS TO BE OFFSET			
RR 18+00		25	SEE DWG MD-02 FOR DETAIL
RR 21+65		25	SEE DWG MD-02 FOR DETAIL
RR 23+50		25	SEE DWG MD-02 FOR DETAIL
RR 25+50	RR 26+00	25	SEE DWG MD-02 FOR DETAIL
RR 37+75		25	SEE DWG MD-02 FOR DETAIL
RR 39+05		25	SEE DWG MD-02 FOR DETAIL
RR 43+75		25	SEE DWG MD-02 FOR DETAIL
RR 46+70		25	SEE DWG MD-02 FOR DETAIL
RR 61+50		25	SEE DWG MD-02 FOR DETAIL
RR 63+10		25	SEE DWG MD-02 FOR DETAIL
RR 70+15		25	SEE DWG MD-02 FOR DETAIL
RR 76+20		25	SEE DWG MD-02 FOR DETAIL
RR 78+35		25	SEE DWG MD-02 FOR DETAIL
RR 81+35		25	SEE DWG MD-02 FOR DETAIL
RR 85+15		25	SEE DWG MD-02 FOR DETAIL
RR 87+85		25	SEE DWG MD-02 FOR DETAIL
RR 90+10		25	SEE DWG MD-02 FOR DETAIL
RR 91+70		25	SEE DWG MD-02 FOR DETAIL

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MISCELLANEOUS TABLES

AS-BUILT REVISIONS	DATE		
		DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
		DATE: NOV 2020	SCALE: NO SCALE	PROJ. NO.: 839.001.001
		DWG No.: MST-04		SHEET 15 of 104

F:\Project\839 - Rockland County\839001001 River Road CR1\CADD\Project Files\Current Autocad Files\875522b2_misc Tab 04.dwg Layout: Layout1 Plot Date Nov 30 20 Time: 11:39 AM

ITEM 608.0101 (CY)
CONCRETE SIDEWALKS

FROM STATION	TO STATION	SIDE	LENGTH (FT)	WIDTH (FT)	DEPTH (IN)	QUANTITY (CY)	COMMENTS
RR 10+50.00	RR 11+56.75	RT	106.75	4.0	4.0	5.27	
RR 11+56.75	RR 11+96.17	RT	39.42	4.0	6.0	2.92	DRWY-DROP CURB
RR 11+96.17	RR 12+00.15	RT	3.98	4.0	4.0	0.20	
RR 12+00.15	RR 12+81.26	RT	81.11	4.0	6.0	6.01	DRWY-DROP CURB
RR 12+81.26	RR 13+98.46	RT	117.20	4.0	4.0	5.79	
RR 13+98.46	RR 14+34.53	RT	36.07	4.0	6.0	2.67	DRWY-DROP CURB
RR 14+34.53	RR 15+34.65	RT	100.12	4.0	4.0	4.94	
RR 15+34.65	RR 15+68.25	RT	33.60	4.0	6.0	2.49	DRWY-DROP CURB
RR 15+68.25	RR 15+73.47	RT	5.22	4.0	4.0	0.26	
RR 15+73.47	RR 16+09.34	RT	35.87	4.0	6.0	2.66	DRWY-DROP CURB
RR 16+09.34	RR 17+87.97	RT	178.63	4.0	4.0	8.82	
RR 17+87.97	RR 18+42.00	RT	54.03	4.0	6.0	4.00	DRWY-DROP CURB
RR 18+42.00	RR 18+68.10	RT	26.10	4.0	4.0	1.29	
RR 18+68.10	RR 19+31.18	RT	63.08	4.0	6.0	4.67	DRWY-DROP CURB
RR 19+31.18	RR 19+82.17	RT	50.99	4.0	4.0	2.52	
RR 19+82.17	RR 20+69.44	RT	87.27	4.0	6.0	6.46	DRWY-DROP CURB
RR 20+69.44	RR 21+68.44	RT	99.00	4.0	4.0	4.89	
RR 21+68.44	RR 21+94.36	RT	25.92	4.0	6.0	1.92	DRWY-DROP CURB
RR 21+94.36	RR 22+74.98	RT	80.62	4.0	4.0	3.98	
RR 22+74.98	RR 23+39.32	RT	64.34	4.0	6.0	4.77	DRWY-DROP CURB
RR 23+39.32	RR 25+07.54	RT	168.22	4.0	4.0	8.31	
RR 25+07.54	RR 25+56.97	RT	49.43	4.0	6.0	3.66	DRWY-DROP CURB
RR 25+56.97	RR 28+47.51	RT	290.54	4.0	4.0	14.35	
RR 28+47.51	RR 28+78.21	RT	30.70	4.0	6.0	2.27	DRWY-DROP CURB
RR 28+78.21	RR 30+98.95	RT	220.74	4.0	4.0	10.90	
RR 30+98.95	RR 31+25.13	RT	26.18	4.0	6.0	1.94	DRWY-DROP CURB
RR 31+25.13	RR 31+68.54	RT	43.41	4.0	4.0	2.14	
RR 31+68.54	RR 32+00.16	RT	31.62	4.0	6.0	2.34	DRWY-DROP CURB
RR 32+00.16	RR 38+09.44	RT	609.28	4.0	4.0	30.09	
RR 38+09.44	RR 38+39.77	RT	30.33	4.0	6.0	2.25	DRWY-DROP CURB
RR 38+39.77	RR 39+75.35	RT	135.58	4.0	4.0	6.70	
RR 39+75.35	RR 40+03.90	RT	28.55	4.0	6.0	2.11	DRWY-DROP CURB
RR 40+03.90	RR 42+35.17	RT	231.27	4.0	4.0	11.42	
RR 42+35.17	RR 42+63.76	RT	28.59	4.0	6.0	2.12	DRWY-DROP CURB
RR 42+63.76	RR 43+83.22	RT	119.46	4.0	4.0	5.90	
RR 43+83.22	RR 44+24.26	RT	41.04	4.0	6.0	3.04	DRWY-DROP CURB
RR 44+24.26	RR 46+34.33	RT	210.07	4.0	4.0	10.37	
RR 46+34.33	RR 46+53.33	RT	19.00	4.0	6.0	1.41	DRWY-DROP CURB
RR 46+53.33	RR 46+97.82	RT	44.49	4.0	4.0	2.20	
RR 46+97.82	RR 47+20.65	RT	22.83	4.0	6.0	1.69	DRWY-DROP CURB
RR 47+20.65	RR 47+96.40	RT	75.75	4.0	4.0	3.74	
RR 47+96.40	RR 48+29.36	RT	32.96	4.0	6.0	2.44	DRWY-DROP CURB
RR 48+29.36	RR 50+19.88	RT	190.52	4.0	4.0	9.41	
RR 50+19.88	RR 50+50.88	RT	31.00	4.0	6.0	2.30	DRWY-DROP CURB
RR 50+50.88	RR 50+57.80	RT	6.92	4.0	4.0	0.34	
RR 50+57.80	RR 50+93.68	RT	35.88	4.0	6.0	2.66	DRWY-DROP CURB
RR 50+93.68	RR 51+23.16	RT	29.48	4.0	4.0	1.46	
RR 51+23.16	RR 51+59.80	RT	36.64	4.0	6.0	2.71	DRWY-DROP CURB
RR 51+59.80	RR 58+53.36	RT	693.56	4.0	4.0	34.25	
RR 58+53.36	RR 59+42.72	RT	89.36	4.0	6.0	6.62	DRWY-DROP CURB
					TOTAL:	267.66	

FROM STATION	TO STATION	SIDE	LENGTH (FT)	WIDTH (FT)	DEPTH (IN)	QUANTITY (CY)	COMMENTS
RR 59+42.72	RR 66+02.47	RT	659.75	4.0	4.0	32.58	
RR 66+02.47	RR 66+54.43	RT	51.96	4.0	6.0	3.85	DRWY-DROP CURB
RR 66+54.43	RR 67+82.99	RT	128.56	4.0	4.0	6.35	
RR 67+82.99	RR 68+56.00	RT	73.01	4.0	6.0	5.41	DRWY-DROP CURB
RR 68+56.00	RR 71+73.56	RT	317.56	4.0	4.0	15.68	
RR 71+73.56	RR 72+09.56	RT	36.00	4.0	6.0	2.67	DRWY-DROP CURB
RR 72+09.56	RR 73+04.90	RT	95.34	4.0	4.0	4.71	
RR 73+04.90	RR 73+32.17	RT	27.27	4.0	6.0	2.02	DRWY-DROP CURB
RR 73+32.17	RR 74+89.57	RT	157.40	4.0	4.0	7.77	
RR 74+89.57	RR 75+42.18	RT	52.61	4.0	6.0	3.90	DRWY-DROP CURB
RR 75+42.18	RR 76+22.91	RT	80.73	4.0	4.0	3.99	
RR 76+22.91	RR 76+46.29	RT	23.38	4.0	6.0	1.73	DRWY-DROP CURB
RR 76+46.29	RR 77+39.35	RT	93.06	4.0	4.0	4.60	
RR 77+39.35	RR 77+63.88	RT	24.53	4.0	6.0	1.82	DRWY-DROP CURB
RR 77+63.88	RR 78+36.69	RT	72.81	4.0	4.0	3.60	
RR 78+36.69	RR 78+61.48	RT	24.79	4.0	6.0	1.84	DRWY-DROP CURB
RR 78+61.48	RR 79+39.69	RT	78.21	4.0	4.0	3.86	
RR 79+39.69	RR 80+81.71	RT	142.02	4.0	6.0	10.52	DRWY-DROP CURB
RR 80+81.71	RR 82+09.92	RT	128.21	4.0	4.0	6.33	
RR 82+09.92	RR 82+38.03	RT	28.11	4.0	6.0	2.08	DRWY-DROP CURB
RR 82+38.03	RR 82+58.49	RT	20.46	4.0	4.0	1.01	
RR 82+58.49	RR 83+73.50	RT	115.01	4.0	6.0	8.52	DRWY-DROP CURB
RR 83+73.50	RR 83+89.90	RT	16.40	4.0	4.0	0.81	
RR 83+89.90	RR 84+16.28	RT	26.38	4.0	6.0	1.95	DRWY-DROP CURB
RR 84+16.28	RR 84+22.02	RT	5.74	4.0	4.0	0.28	
RR 84+22.02	RR 84+83.17	RT	61.15	4.0	6.0	4.53	DRWY-DROP CURB
RR 84+83.17	RR 85+44.97	RT	61.80	4.0	4.0	3.05	
RR 85+44.97	RR 86+57.25	RT	112.28	4.0	6.0	8.32	DRWY-DROP CURB
RR 86+57.25	RR 86+86.91	RT	29.66	4.0	4.0	1.46	
RR 86+86.91	RR 87+16.72	RT	29.81	4.0	6.0	2.21	DRWY-DROP CURB
RR 87+16.72	RR 87+97.39	RT	80.67	4.0	4.0	3.98	
RR 87+97.39	RR 88+26.33	RT	28.94	4.0	6.0	2.14	DRWY-DROP CURB
RR 88+26.33	RR 89+38.60	RT	112.27	4.0	4.0	5.54	
RR 89+38.60	RR 89+70.14	RT	31.54	4.0	6.0	2.34	DRWY-DROP CURB
RR 89+70.14	RR 90+43.66	RT	73.52	4.0	4.0	3.63	
RR 90+43.66	RR 90+73.41	RT	29.75	4.0	6.0	2.20	DRWY-DROP CURB
RR 90+73.41	RR 90+99.32	RT	25.91	4.0	4.0	1.28	
RR 90+99.32	RR 91+47.21	RT	47.89	5.0	6.0	4.43	DRWY-DROP CURB
RR 91+47.21	RR 93+89.80	RT	242.59	5.0	4.0	14.97	
RR 93+89.80	RR 94+08.29	RT	18.49	5.00	6.0	1.71	DRWY-DROP CURB
			0.00			0.00	
			0.00			0.00	
			0.00			0.00	
			0.00			0.00	
			0.00			0.00	
			0.00			0.00	
			0.00			0.00	
			0.00			0.00	
			0.00			0.00	
			0.00			0.00	
					TOTAL:	199.68	

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MISCELLANEOUS TABLES

AS-BUILT REVISIONS	DATE

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: AS SHOWN	PROJ. NO.: 839.001.001
DWG No.: MST-05		SHEET 16 of 104

F:\Project\839 - Rockland County\839001001 River Road CR1\CADD\Project Files\Current Autocad Files\875522b2_misc Tab 05.dwg Layout: Mst-01 Plot Date Nov 30 20 Time: 10:07 AM

ITEM 206.04020011 (EA)
TEST PIT EXCAVATION

TEST PIT NUMBER	STATION	OFFSET (FT)	SIDE	ACTUAL SIZE, MATERIAL, TYPE OF UTILITY	DRAINAGE ELEMENT IN CONFLICT	QTY. (EA)
TH 1	RR 13+92	6.2	RT	WATER -12" C.I.	DS 1-7	1
TH 2	RR 15+00	7.2	RT	WATER -12" C.I.	DS 1-10	1
TH 3	RR 17+93	6.7	RT	WATER -12" C.I.	DS 2-9	1
TH 4	RR 21+58	6.4	RT	WATER -12" C.I.	DS 3-6	1
TH 5	RR 23+45	7.1	RT	WATER -12" C.I.	DS 3-8	1
TH 6	RR 25+49	9.2	RT	WATER -12" C.I.	DS 3-9	1
TH 7	RR 25+95	8.9	RT	WATER -12" C.I.	DS 3-9	1
TH 8	RR 28+69	9.4	RT	WATER -12" C.I.	DS 4-8	1
TH 9	RR 29+48	8.4	RT	WATER -12" C.I.	DS 4-12	1
TH 10	RR 30+54	8.6	RT	WATER -12" C.I.	DS 4-13	1
TH 11	RR 32+04	9.8	RT	WATER -12" C.I.	DS 4-14	1
TH 12	RR 35+81	9.7	RT	WATER -12" C.I.	DS 5-7	1
TH 13	RR 36+88	10.0	RT	WATER -12" C.I.	DS 5-8	1
TH 14	RR 37+75	9.7	RT	WATER -12" C.I.	DS 5-10	1
TH 15	RR 39+05	9.9	RT	WATER -12" C.I.	DS 6-8	1
TH 16	RR 43+74	9.1	RT	WATER -12" C.I.	DS 6-11	1
TH 17	RR 44+80	9.4	RT	WATER -12" C.I.	DS 7-6	1
TH 18	RR 45+45	8.7	RT	WATER -12" C.I.	DS 7-7	1
TH 19	RR 46+58	8.8	RT	WATER -12" C.I.	DS 7-8	1
TH 20	RR 50+05	9.8	RT	WATER -12" C.I.	DS 8-5	1
TH 21	RR 55+65	9.7	RT	WATER -12" C.I.	DS 9-8	1
TH 22	RR 56+72	9.2	RT	WATER -12" C.I.	DS 9-10	1
TH 23	RR 57+24	9.0	RT	WATER -12" C.I.	DS 9-11	1
TH 24	RR 61+53	7.5	RT	WATER -12" C.I.	DS 10-8	1
TH 25	RR 63+10	9.2	RT	WATER -12" C.I.	DS 10-9	1
TH 26	RR 64+96	7.8	RT	WATER -12" C.I.	DS 10-11	1
TH 27	RR 65+46	7.8	RT	WATER -12" C.I.	DS 10-12	1
TH 28	RR 68+07	8.5	RT	WATER -12" C.I.	DS 11-5	1
TH 29	RR 68+60	8.6	RT	WATER -12" C.I.	DS 11-6	1
TH 30	RR 70+33	8.8	RT	WATER -12" C.I.	DS 11-7	1
TH 31	RR 73+81	9.6	RT	WATER -12" C.I.	DS 12-6	1
TH 32	RR 74+16	9.4	RT	WATER -12" C.I.	DS 12-7	1
TH 33	RR 76+18	8.7	RT	WATER -12" C.I.	DS 12-10	1
TH 34	RR 78+31	7.8	RT	WATER -12" C.I.	DS 13-6	1
TH 35	RR 81+38	9.3	RT	WATER -12" C.I.	DS 13-7	1
TH 36	RR 85+15	8.7	RT	WATER -12" C.I.	DS 14-7	1
TH 37	RR 87+85	9.0	RT	WATER -12" C.I.	DS 14-8	1
TH 38	RR 90+08	10.1	RT	WATER -12" C.I.	DS 15-9	1
TH 39	RR 91+71	10.0	RT	WATER -12" C.I.	DS 15-11	1
TH 40	RR 91+88	10.5	RT	WATER -12" C.I.	DS 15-12	1
TH 41	RR 13+65	6	LT	SWTS	DS 1-1A	1
TH 42	RR 24+00	5	LT	SWTS	DS 3-3A	1
TH 43	RR 29+65	6	LT	SWTS	DS 4-3A	1
TH 44	RR 36+90	6	LT	SWTS	DS 5-4A	1
TH 45	RR 45+45	5	RT	SWTS	DS 7-7A	1
TH 46	RR 57+24	5	RT	SWTS	DS 9-5A	1
TH 47	RR 65+05	6	RT	SWTS	DS 10-5A	1
TH 48	RR 68+60	5	RT	SWTS	DS 11-3A	1
TH 49	RR 74+18	6	RT	SWTS	DS 12-3A	1
TH 50	RR 90+75	6	LT	SWTS	DS 15-1A	1
					TOTAL:	50

NOTE: SWTS - STORMWATER TREATMENT SYSTEM

WATER TEST PIT NOTE

SINCE THESE THE DESIGN DRAWINGS WERE DEVELOPED, SEVERAL TEST PITS HAVE BEEN PERFORMED BY SUEX WATER ON THE 12 - INCH WATER POTENTIAL CONFLICTS WITH THE PROPOSED STORM PIPE OR STRUCTURES MAY EXIST. THAT TEST PIT DATA WILL BE PROVIDED TO THE CONTRACTOR. OF THE 50 TEST PIT EXCAVATIONS SHOWN, IT IS ESTIMATED THAT 20 TEST PITS WILL REMAIN AND ARE INCLUDED IN THE ESTIMATE OF QUANTITIES, INCLUDING ALL OF THE SWTS LOCATIONS SHOWN.

TABLE OF ROW ACQUISITIONS

Map No.	Parcel No.	Reputed Owner	Property Address	Tax Lot No.	Acquis Type	Acquisition Area (Acres)	Acquisition Area (SF)	Drawing No.
101	101	St. Johns R.C. Church	897 Piermont Avenue Piermont, N.Y.	75.22-2-13	PE	0.005	233	DRN-01
102	102	Robert & Marlene Kleiner	316 River Road Grand View, N.Y.	75.22-1-7	PE	0.003	123	DRN-01
103	103	Jordan Barile	900 Piermont Avenue Piermont, N.Y.	75.22-1-8	PE	0.004	175	DRN-01
104	104	Caitlyn Gallucci	311 River Road Grand View, N.Y.	75.22-1-11	PE	0.004	177	DRN-01
105	105	Maria Rezak	250 River Road Grand View, N.Y.	71.78-1-2	PE	0.050	2,178	DRN-03
106	106	Doris & Lawrence Buxbaum	230 River Road Grand View, N.Y.	71.70-1-7	PE	0.060	2,613	DRN-04
107	107	Frank & Cynthia Raphael	243 River Road Grand View, N.Y.	71.70-1-9.2	PE	0.002	100	DRN-04
108	108	Omitted						
109	109	Omitted						
110	110	Ann Rawding	107 River Road Grand View, N.Y.	71.46-1-1	PE	0.011	465	DRN-11
111	111	Debra Gambella	100 River Road Grand View, N.Y.	71.38-1-10	PE	0.022	980	DRN-11
112	112	Vilage of Grand View- On - Hudson	118 River Road Grand View, N.Y.	71.46-1-4	PE	0.002	90	DRN-10

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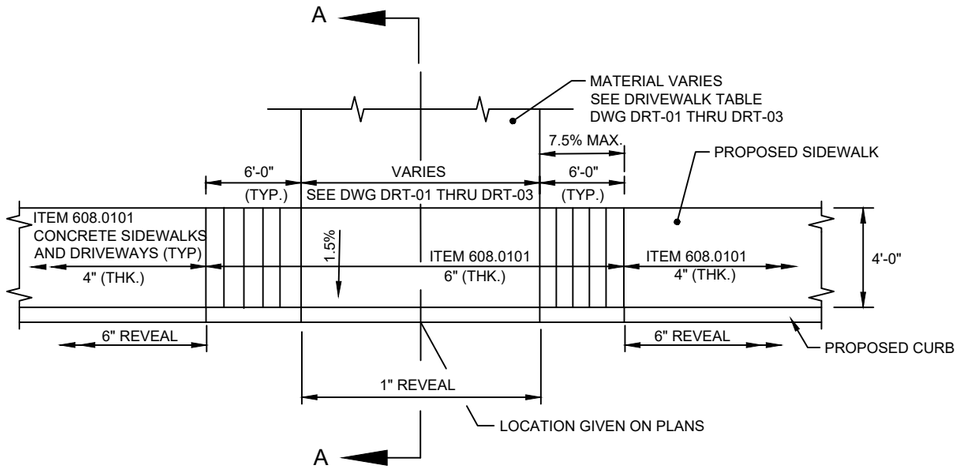
ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

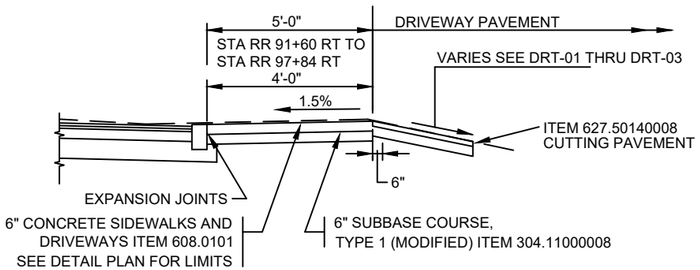
MISCELLANEOUS TABLES

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		DATE: NOV 2020	SCALE: AS SHOWN	PROJ. NO.: 839.001.001
		DWG No.: MST-06		SHEET 17 of 104

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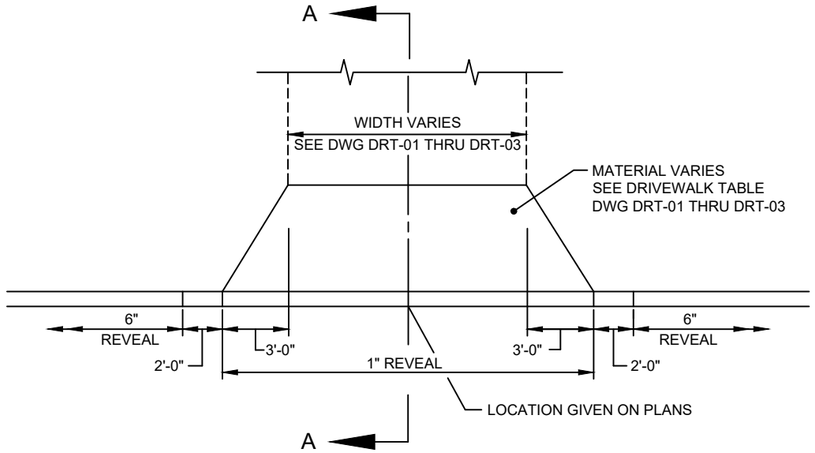


PLAN

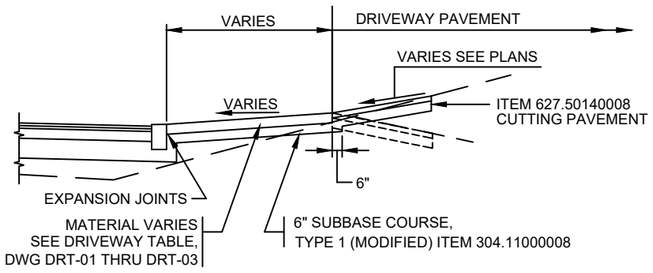


SECTION A-A

RESIDENTIAL/MINOR COMMERCIAL DRIVEWAY W/SIDEWALK

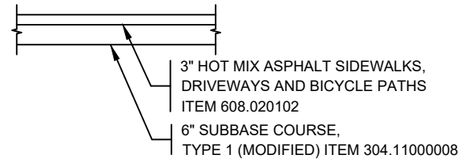


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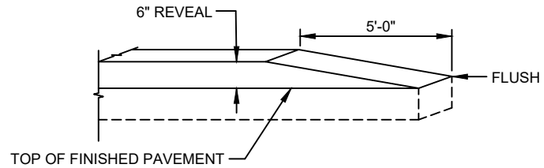


SECTION A-A

RESIDENTIAL/MINOR COMMERCIAL DRIVEWAY W/O SIDEWALK

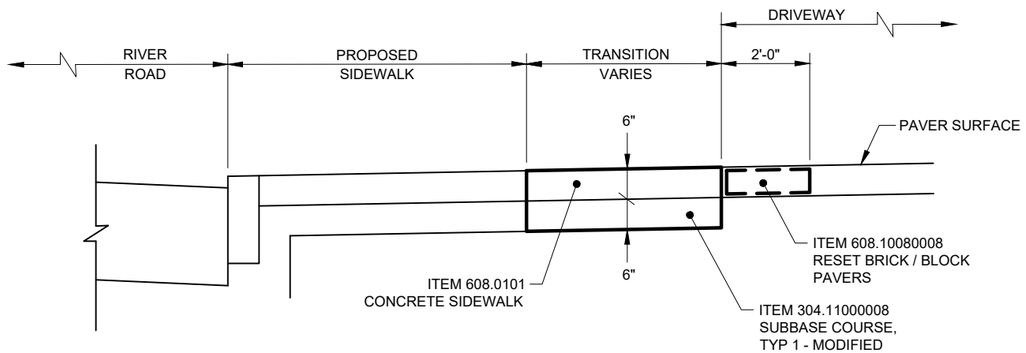


DRIVEWAY PAVEMENT SECTION



CURB TERMINATION

STA RR 97+84 RT



NOTES: IF TRANSITION WIDTH IS 2' OR LESS; TRANSITION MAY BE PLACED MONOLITHIC WITH SIDEWALK WITH APPROVAL OF THE ENGINEER. THE MAXIMUM CROSS SLOPE OF SIDEWALK SHALL NOT EXCEED THE 1.5% TO BE ADA COMPLIANT. IF THE WIDTH IS GREATER THAN 2' THE TRANSITION SHALL BE PLACED SEPARATELY AND MATCH THE GRADE BETWEEN THE SIDEWALK AND PAVERS.

TRANSITION BETWEEN SIDEWALK
AND PAVER SURFACED DRIVEWAYS

NOT TO SCALE

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499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
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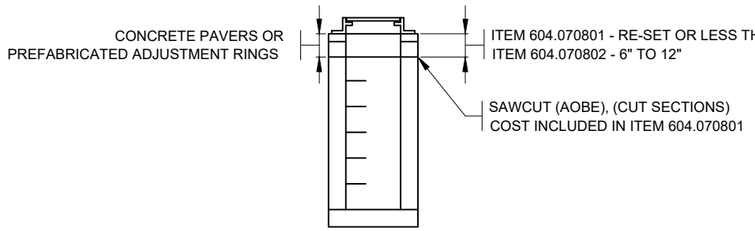
RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE

TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

MISCELLANEOUS DETAILS

AS-BUILT REVISIONS	DATE		
		DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
		DATE: NOV 2020	SCALE: NONE	PROJ. NO.: 839.001.001
		DWG No.: MD-01		SHEET 18 of 104

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NOTE: 1. REMOVE AND CLEAN MANHOLE FRAME AND COVER.

2. REMOVE ALL LOOSE BRICK AND MORTAR.

3. USE PRECAST CONCRETE PAVERS OR PREFABRICATED ADJUSTMENT RINGS WITH MORTAR, OR A MAXIMUM OF 2" OF MORTAR FOR CONCRETE ALONE TO RAISE CASTINGS TO FINISHED GRADE ELEVATION; OR, REMOVE EXISTING STRUCTURE SUFFICIENT TO LOWER CASTINGS TO FINISHED GRADE ELEVATION. USE PAVERS OR ADJUSTMENT RINGS FOR FINAL ADJUSTMENT. A MAXIMUM OF 2" OF MORTAR WILL BE ALLOWED BETWEEN EACH SUCCESSIVE COURSE. RE-INSTALL CASTINGS OR INSTALL NEW CASTINGS AS SHOWN ON THE PLANS OR A.O.B.E. FRAMES SHALL BE SET IN A FULL BED OF MORTAR. NEW CASTINGS WILL BE PAID UNDER ITEM 655.01 M. SEE DRAINAGE AND UTILITY PLANS FOR CASTING TYPE.

4. REPOINT WALLS OF EXISTING STRUCTURE TO REMAIN A.O.B.E.

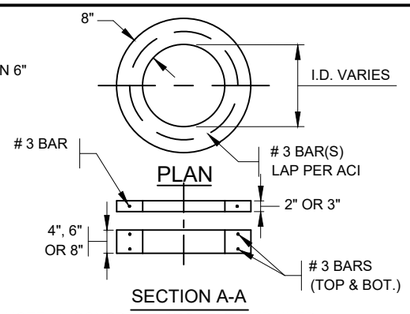
* 5. CONSTRUCT RUBBER WATERTIGHT SEAL BETWEEN MANHOLE FRAME AND CONE SUCH AS BUTYL RUBBER MASTIC EST401 AS MANUFACTURED BY PARSONS ENV. PRODUCTS CO. OR APPROVED EQUAL. SEE INSERT A.

* (SANITARY SEWER MANHOLES ONLY)

ALTERING MANHOLE
TYPE 1- ITEM 604.070801
TYPE 2 - ITEM 604.070802

N.T.S.

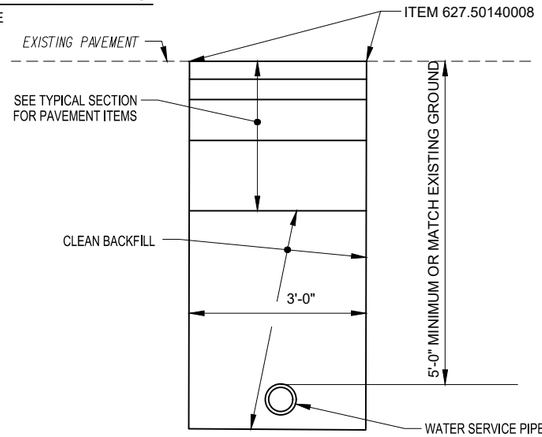
MINOR MANHOLE ALTERATION WITH MORTAR OR BLOCK/GRADE RINGS AND MORTAR



NOTE: 1. CONCRETE TO BE AIR ENTRAINED, 4000 PSI (MIN.).

PREFABRICATED ADJUSTMENT RING

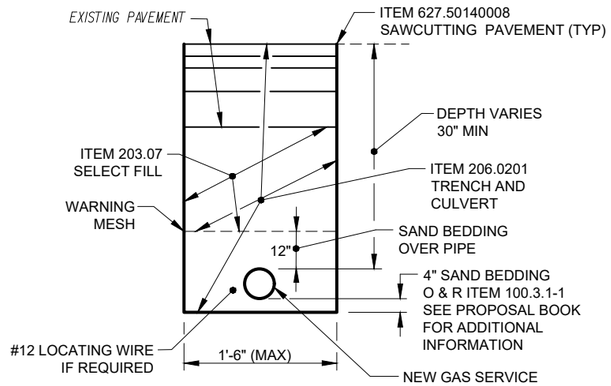
NOT TO SCALE



WATER SERVICE TRENCH DETAIL

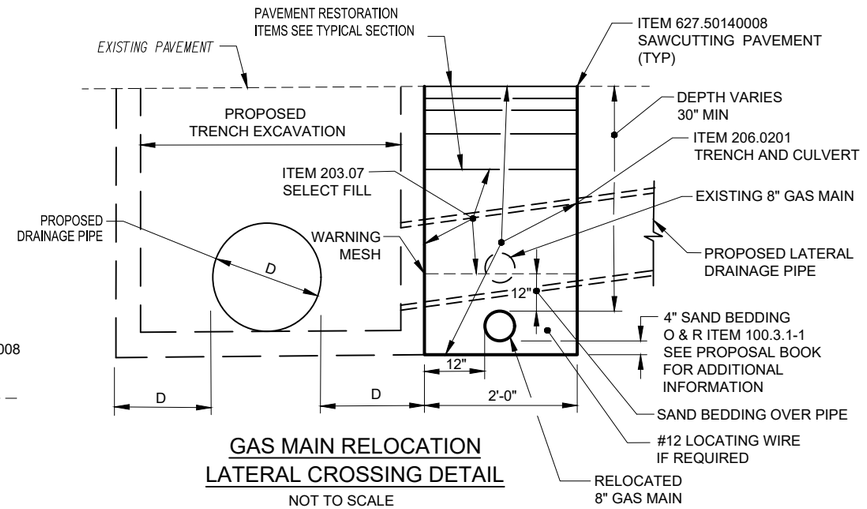
NOT TO SCALE

1. COST FOR SAWCUTTING, TRENCHING, BACKFILL SERVICE PIPE , HMA PAVEMENT RESTORATION AND OTHER INCIDENTIALS SHALL BE INCLUDED IN BID PRICE FOR ITEM 663.25000010



GAS SERVICE TRENCH DETAIL

NOT TO SCALE



GAS MAIN RELOCATION
LATERAL CROSSING DETAIL

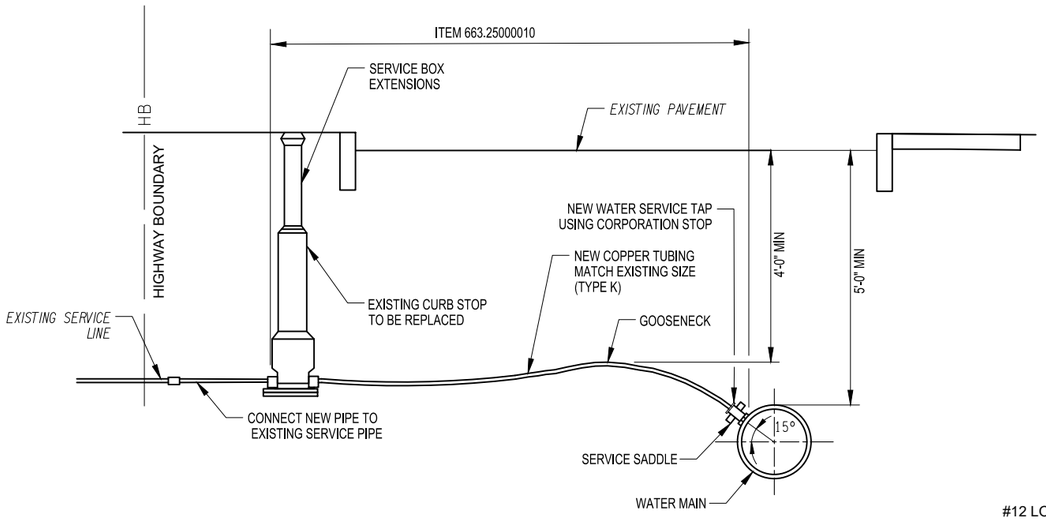
NOT TO SCALE

NOTE: 1. SEE SPECIAL NOTE IN PROPOSAL AND TABLE OF GAS MAIN RELOCATIONS ON DWG MST-04.

GAS MAIN RELOCATION
TRENCH RUN DETAIL

NOT TO SCALE

NOTE: 1. SEE SPECIAL NOTE IN PROPOSAL AND TABLE OF GAS MAIN RELOCATIONS ON DWG MST-04.



ITEM 663.25000010 - RESTORING WATER SERVICE CONNECTIONS
TYP. WATER SERVICE CONNECTION (2" AND SMALLER)

NOT TO SCALE

NOTES:

1. WHERE MULTIPLE TAPS EXIST, WATER CONNECTION TAPS SHALL BE SPACED A MINIMUM OF 18" ALONG THE PIPE.

2. ABANDON ALL EXISTING WATER SERVICE CONNECTIONS IN PLACE.

3. INCLUDES NEW WATER SERVICE TAP, COPPER PIPE, NEW CURB STOP, AND CONNCECTION TO EXISTING SERVICE PIPE.

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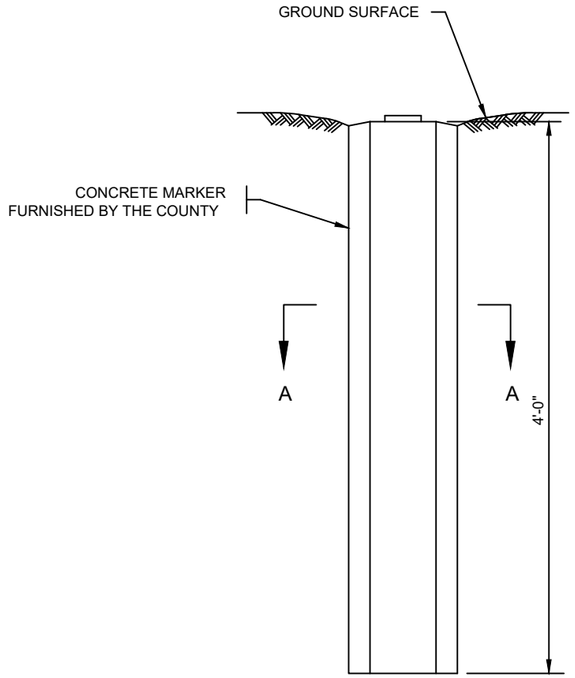
ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
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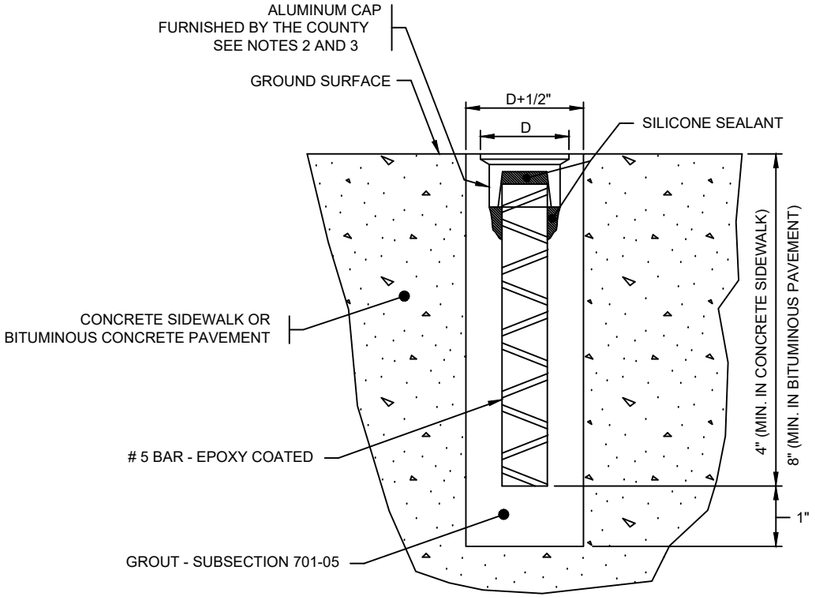
MISCELLANEOUS DETAILS

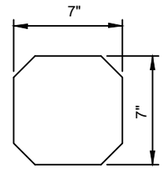
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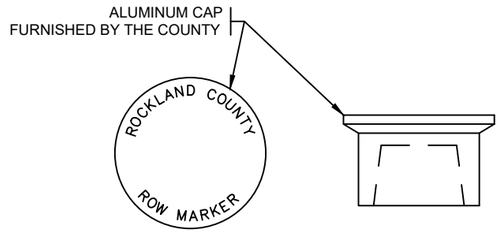
ELEVATION





SECTION A-A

CONCRETE RIGHT-OF-WAY MARKERS
ITEM 625.03
NTS



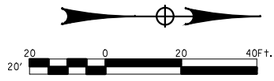
STEEL PIN AND CAP RIGHT-OF-WAY MARKERS
ITEM 625.05
NTS

NOTE: 1. SEE ACQUISITION MAPS FOR PRECISE RIGHT-OF-WAY MARKER LOCATIONS. SEE DRAWING MT-2 FOR APPROXIMATE LOCATION.

2. INSIDE OF ALUMINUM CAP SHALL BE FILLED 2/3 FULL OF SILICONE SEALANT. SURFACES OF ALUMINUM CAP WHICH WILL BE IN CONTACT WITH GROUT SHALL BE THOROUGHLY COATED WITH ZINC CHROMATE PRIMER (SUBSECTION 708-04).

3. A TIGHT BOND SHALL BE ESTABLISHED BETWEEN THE ALUMINUM CAP AND REBAR SO THAT THE CAP CANNOT BE REMOVED.

4. THE COUNTY WILL FURNISH ALLUMINUM RIGHT-OF-WAY CAPS, PRECAST CONCRETE RIGHT-OF-WAY MARKERS AND MONUMENT DISKS, ALL OTHER MATERIALS SHALL BE FURNISHED BY THE CONTRACTOR.



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RECONSTRUCTION OF RIVER ROAD
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TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

MISCELLANEOUS DETAILS

AS-BUILT REVISIONS	DATE			
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		DATE: NOV 2020	SCALE: NO SCALE	PROJ. NO.: 839.001.001
		DWG No.: MD-03		SHEET 20 of 104

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ITEM 608.XXXX
DRIVEWAY TABLE

DRIVEWAY #	LOCATION		MATERIAL		ITEM NUMBER	CLASS	DIMENSIONS (FT)				COMMENTS
	STATION	SIDE	EXISTING	PROPOSED			W	TL	PL	CORNER ANGLE	
DR 1-01	RR12+19.7	LT	HMA	HMA	608.020102	R	16.6		4.0		
DR 1-02	RR13+76.4	LT	HMA	HMA	608.020102	R	9.4	13.0	4.0		
DR 1-03	RR14+16.5	LT	GRAVEL	GRAVEL	304.11000008	R	33.5		7.5		PARKING AREA
DR 1-04	RR14+33.3	LT	HMA	HMA	608.020102	R	18.4		8.0		
DR 1-05	RR14+68.9	LT	HMA	HMA	608.020102	R	23.6		4.0		
DR 1-06	RR11+76.4	RT	HMA	HMA	608.020102	R	22.6		3.5		CHURCH (ONE WAY-OUT)
DR 1-07	RR12+19.7	RT	HMA	HMA	608.020102	R	22.3	4.0	4.0		
DR 1-08	RR12+57.4	RT	HMA	HMA	608.020102	R	31.8	15.5	3.5		
DR 1-09	RR14+16.5	RT	HMA	HMA	608.020102	R	20.1	12.0	3.0		
DR 1-10	RR15+50.1	RT	HMA	HMA	608.020102	R	16.0	5.0	2.5		
DR 2-01	RR16+00.0	LT	HMA	HMA	608.020102	R	58.4		11.5		PARKING AREA
DR 2-02	RR16+42.0	LT	GRAVEL	GRAVEL	304.11000008	R	25.4		13.5		
DR 2-03	RR17+22.0	LT	HMA	HMA	608.020102	R	25.6	3.0	5.5		RECONSTRUCTION
DR 2-04	RR18+20.7	LT	HMA	HMA	608.020102	R	15.5	8.0	3.5		RECONSTRUCTION
DR 2-05	RR18+39.5	LT	HMA	HMA	608.020102	R	22.2	9.0	3.5		RECONSTRUCTION
DR 2-06	RR19+28.6	LT	HMA	HMA	608.020102	R	16.7	3.0	3.5		
DR 2-07	RR20+35.4	LT	HMA	HMA	608.020102	R	23.4		16.0		
DR 2-08	RR21+27.2	LT	HMA	HMA	608.020102	R	26.3	2.0	4.0		RECONSTRUCTION
DR 2-09	RR15+91.6	RT	HMA	HMA	608.020102	R	19.2	6.0	3.5		
DR 2-10	RR18+10.2	RT	HMA	HMA	608.020102	R	52.6		4.0		
DR 2-11	RR18+99.6	RT	GRAVEL	GRAVEL	304.11000008	R	51.5		3.0		
DR 2-12	RR20+08.3	RT	GRAVEL	GRAVEL	304.11000008	R	32.1		13.0		
DR 2-13	RR20+50.7	RT	HMA	HMA	608.020102	R	27.3	8.0	4.0		
DR 3-01	RR22+89.5	LT	HMA	HMA	608.020102	R	17.1	6.0	4.5		RECONSTRUCTION
DR 3-02	RR23+04.9	LT	HMA	HMA	608.020102	R	14.8	14.0	4.5		RECONSTRUCTION
DR 3-03	RR25+24.3	LT	HMA	HMA	608.020102	R	23.0	11.0	4.0		RECONSTRUCTION
DR 3-04	RR25+47.7	LT	HMA	HMA	608.020102	R	18.9	5.0	4.5		RECONSTRUCTION
DR 3-05	RR21+81.6	RT	PAVERS	PAVERS	608.10080008	R	25.5		11.0		RE-SET EXISTING PAVERS
DR 3-06	RR22+89.5	RT	PAVERS	PAVERS	608.10080008	R	18.8		17.0		RE-SET EXISTING PAVERS
DR 3-07	RR23+19.6	RT	PAVERS	PAVERS	608.10080008	R	29.5		14.0		RE-SET EXISTING PAVERS
DR 3-08	RR25+24.3	RT	HMA	HMA	608.020102	R	23.7	7.0	3.0		
DR 3-09	RR25+44.0	RT	HMA	HMA	608.020102	R	16.0		12.0		RECON-SEE DWG DD-03
DR 4-01	RR27+33.4	LT	HMA	HMA	608.020102	R	13.4		5.0		
DR 4-02	RR27+50.4	LT	PAVERS	PAVERS	608.10080008	R	20.0		7.5		RE-SET EXISTING PAVERS
DR 4-03	RR28+91.0	LT	PAVERS	PAVERS	608.10080008	R	15.0		5.0		RE-SET EXISTING PAVERS
DR 4-04	RR30+38.0	LT	HMA	HMA	608.020102	R	16.9	2.0	3.5		RECONSTRUCTION
DR 4-05	RR30+68.9	LT	HMA	HMA	608.020102	R	15.4		5.0		
DR 4-06	RR28+62.9	RT	HMA	HMA	608.020102	R	19.0		20.0		RECON-SEE DWG DD-04
DR 4-07	RR31+12.0	RT	PAVERS	PAVERS	608.10080008	R	14.1		7.0		RE-SET EXISTING PAVERS
DR 4-08	RR31+86.9	RT	PAVERS	PAVERS	608.10080008	R	26.2		3.5		RE-SET EXISTING PAVERS
DR 5-01	RR33+68.5	LT	CONC	CONC	608.0101	R	28.0		5.0		HEATED DRIVEWAY
DR 5-02	RR35+51.0	LT	GRAVEL	GRAVEL	304.11000008	R	33.4	8.0	4.0		
DR 5-03	RR37+08.7	LT	HMA	HMA	608.020102	R	10.5	4.0	4.5		RECONSTRUCTION
DR 5-04	RR38+02.6	LT	HMA	HMA	608.020102	R	20.0		4.5		RECONSTRUCTION
DR 5-05	RR38+24.9	RT	GRAVEL	GRAVEL	304.11000008	R	19.7		12.0		
DR 6-01	RR42+25.3	LT	HMA	HMA	608.020102	R	25.3	4.0	4.0		RECONSTRUCTION
DR 6-02	RR43+87.0	LT	HMA	HMA	608.020102	R	19.7		5.0		
DR 6-03	RR39+89.3	RT	GRAVEL	CONC	608.0101	R	30.9		3.0		
DR 6-04	RR42+49.4	RT	HMA	HMA	608.020102	R	16.4		5.0		RECONSTRUCTION
DR 6-05	RR43+99.0	RT	CONC	CONC	608.0101	R	21.6		4.0		RECONSTRUCTION
DR 6-06	RR44+14.6	RT	HMA	HMA	608.020102	R	9.5		4.0		RECONSTRUCTION

W = Width of main driveway body
TL = Transistion Length
PL = Paving Limit

ITEM	DESCRIPTION
304.11000008	SUBBASE COURSE, MODIFIED
608.0101	CONCRETE SIDEWALKS AND DRIVEWAYS
608.020102	HOT MIX ASPHALT, (HMA) SIDEWALKS, DRIVEWAYS AND BICYCLE PATH
608.10080008	RESETTING BRICK, BLOCK OR FLAGSTONE SIDEWALKS AND DRIVEWAYS

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ROCKLAND COUNTY HIGHWAY DEPARTMENT

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STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

DRIVEWAY TABLE

AS-BUILT REVISIONS	DATE			
		DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
		DATE: NOV 2020	SCALE: NO SCALE	PROJ. NO.: 839.001.001
		DWG No.: DRT-01		SHEET 21 of 104

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DRIVEWAY TABLE

DRIVEWAY #	LOCATION		MATERIAL		ITEM NUMBER	CLASS	DIMENSIONS (FT)				COMMENTS
	STATION	SIDE	EXISTING	PROPOSED			W	TL	PL	CORNER ANGLE	
DR 7-01	RR 45+30.0	LT	GRAVEL	GRAVEL	304.11000008	R	10.6	6.0	6.0		
DR 7-02	RR 48+08.3	LT	HMA	HMA	608.020102	R	19.6	7.0	5.0		RECONSTRUCTION
DR 7-03	RR 49+35.1	LT	HMA	HMA	608.020102	R	13.9	9.0	5.0		RECONSTRUCTION
DR 7-04	RR 47+09.5	RT	CONC	CONC	608.0101	R	22.9	5.0	2.0		
DR 7-05	RR 48+15.1	RT	HMA	HMA	608.020102	R	12.8		2.0		
DR 8-01	RR 50+35.2	LT	HMA	HMA	608.020102	R	14.5	3.0	5.0		
DR 8-02	RR 51+60.6	LT	HMA	HMA	608.020102	R	12.1	11.0	4.0		RECONSTRUCTION
DR 8-03	RR 53+34.6	LT	HMA	HMA	608.020102	R	13.4	6.0	5.0		RECONSTRUCTION
DR 8-04	RR 53+54.5	LT	HMA	HMA	608.020102	R	10.9	10.0	5.0		RECONSTRUCTION
DR 8-05	RR 50+35.2	RT	HMA	HMA	608.020102	R	31.0		3.0		PARKING
DR 8-06	RR 50+75.7	RT	CONC	CONC	608.0101	R	19.9		4.5		STAMPED CONCRETE
DR 8-07	RR 51+41.4	RT	CONC	CONC	608.0101	R	20.7		4.5		STAMPED CONCRETE
DR 9-01	RR 55+84.5	LT	HMA	HMA	608.020102	R	11.2		5.0		RECONSTRUCTION
DR 9-02	RR 55+96.7	LT	PAVERS	PAVERS	608.10080008	R	13.4		5.0		RECON/RE-SET EXST PAVERS
DR 9-03	RR 57+24.0	LT	PAVERS	PAVERS	608.10080008	R	42.6		5.0		RECON/RE-SET EXST PAVERS
DR 9-04	RR 59+00.1	LT	GRAVEL	GRAVEL	304.11000008	R	30.8		5.5		
DR 9-05	RR 59+49.9	LT	HMA	HMA	608.020102	R	16.4		6.0		RECONSTRUCTION
DR 9-06	RR 58+89.9	RT	HMA	HMA	608.020102	R	55.5		2.5		
DR 9-07	RR 59+30.0	RT	HMA	HMA	608.020102	R	24.2		14.5		
DR 10-01	RR 62+66.6	LT	HMA	HMA	608.020102	R	17.6	19.0	4.5		RECONSTRUCTION
DR 10-02	RR 62+85.6	LT	HMA	HMA	608.020102	R	20.5	3.0	2.0		RECONSTRUCTION
DR 10-03	RR 64+79.6	LT	HMA	HMA	608.020102	R	21.6		5.0		
DR 10-04	RR 65+19.9	LT	PAVERS	PAVERS	608.10080008	R	20.1		4.5		RE-SET EXISTING PAVERS
DR 10-05	RR 66+16.8	RT	HMA	HMA	608.020102	R	18.6	3.0	2.0		
DR 10-06	RR 66+29.0	RT	PAVERS	PAVERS	608.10080008	R	23.5		4.0		RE-SET EXISTING PAVERS
DR 11-01	RR 66+77.2	LT	GRAVEL	GRAVEL	304.11000008	R	12.6		5.0		
DR 11-02	RR 66+93.0	LT	HMA	HMA	608.020102	R	12.5		5.0		
DR 11-03	RR 67+61.0	LT	GRAVEL	GRAVEL	304.11000008	R	27.6		5.0		
DR 11-04	RR 68+38.3	LT	HMA	HMA	608.020102	R	20.6	9.0	4.5		RECONSTRUCTION
DR 11-05	RR 72+11.2	LT	HMA	HMA	608.020102	R	15.9		5.0		RECONSTRUCTION
DR 11-06	RR 72+32.3	LT	PAVERS	PAVERS	608.10080008	R	12.9		5.0		RE-SET EXISTING PAVERS
DR 11-07	RR 68+02.1	RT	HMA	HMA	608.020102	R	36.4		3.0		RECONSTRUCTION
DR 11-08	RR 68+51.4	RT	HMA	HMA	608.020102	R	39.9		5.0		RECON-PARKING /DRIVEWAY
DR 11-09	RR 71+92.6	RT	HMA	HMA	608.020102	R	23.7		3.0		LEVEL BLDG. W/ROOF
DR 12-01	RR 72+70.1	LT	GRAVEL	GRAVEL	304.11000008	R	57.7		9.5		PARKING AREA
DR 12-02	RR 74+04.0	LT	PAVERS	PAVERS	608.10080008	R	22.2		3.0		RE-SET EXISTING PAVERS
DR 12-03	RR 74+67.4	LT	HMA	HMA	608.020102	R	61.7		13.5		OVERLAY PARKING AREA
DR 12-04	RR 75+33.7	LT	HMA	HMA	608.020102	R	11.2		5.5		
DR 12-05	RR 76+04.7	LT	HMA	HMA	608.020102	R	13.9		4.5		
DR 12-06	RR 76+42.3	LT	GRAVEL	GRAVEL	304.11000008	R	18.9		3.5		
DR 12-07	RR 73+18.7	RT	CONC	CONC	608.0101	R	11.7		4.5		RECONSTRUCTION
DR 12-08	RR 75+05.3	RT	PAVERS	PAVERS	608.10080008	R	21.5		9.5		RE-SET EXISTING PAVERS
DR 12-09	RR 75+26.6	RT	PAVERS	PAVERS	608.10080008	R	21.4		19.5		RE-SET EXISTING PAVERS
DR 12-10	RR 76+34.5	RT	HMA	HMA	608.020102	R	13.4		3.0		RECONSTRUCTION
DR 12-11	RR 77+51.5	RT	PAVERS	PAVERS	608.10080008	R	14.5		5.0		RE-SET EXISTING PAVERS
DR 13-01	RR 80+73.4	LT	PAVERS	PAVERS	608.10080008	R	22.7		4.0		RE-SET EXISTING PAVERS
DR 13-02	RR 78+48.9	RT	CONC	CONC	608.0101	R	10.2		2.5		
DR 13-03	RR 79+58.3	RT	HMA	HMA	608.020102	R	21.0		4.5		
DR 13-04	RR 80+17.5	RT	HMA	HMA	608.020102	R	69.1	14.0	2.5		PARKING/DRIVEWAY
DR 13-05	RR 80+65.1	RT	GRAVEL	GRAVEL	304.11000008	R	17.5	12.5	3.0		
DR 13-06	RR 82+23.9	RT	GRAVEL	GRAVEL	304.11000008	R	12.0	8.5	2.5		
DR 13-07	RR 82+72.7	RT	GRAVEL	GRAVEL	304.11000008	R	11.0	8.0	2.5		
DR 13-08	RR 82+95.0	RT	PAVERS	PAVERS	608.10080008	R	19.4	7.0	2.5		RE-SET EXISTING PAVERS
DR 13-09	RR 83+26.3	RT	GRAVEL	GRAVEL	304.11000008	R	42.2	5.0	3.0		

ITEM	DESCRIPTION
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608.0101	CONCRETE SIDEWALKS AND DRIVEWAYS
608.020102	HOT MIX ASPHALT, (HMA) SIDEWALKS, DRIVEWAYS AND BICYCLE PATH
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RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

DRIVEWAY TABLE

AS-BUILT REVISIONS	DATE			
		DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
		DATE: NOV 2020	SCALE: NO SCALE	PROJ. NO.: 839.001.001
		DWG No.: DRT-02		SHEET 22 of 104

F:\Project\839 - Rockland County\839001001 River Road CR1\CADD\Project Files\Current Autocad Files\875522b2_drt 02.dwg Layout: Layout1 Plot Date Nov 30 20 Time: 10:08 AM

DRIVEWAY TABLE

DRIVEWAY #	LOCATION		MATERIAL		ITEM NUMBER	CLASS	DIMENSIONS (FT)				COMMENTS
	STATION	SIDE	EXISTING	PROPOSED			W	TL	PL	CORNER ANGLE	
DR 14-01	RR 83+83.3	LT	PAVERS	PAVERS	608.10080008	R	12.8		4.5		RE-SET EXISTING PAVERS
DR 14-02	RR 84+24.6	LT	PAVERS	PAVERS	608.10080008	R	19.5	2.0	5.0		RE-SET EXISTING PAVERS
DR 14-03	RR 84+92.1	LT	PAVERS	PAVERS	608.10080008	R	24.9	5.0	4.5		RE-SET EXISTING PAVERS
DR 14-04	RR 86+76.2	LT	PAVERS	PAVERS	608.10080008	R	30.1		4.0		RE-SET EXISTING PAVERS
DR 14-05	RR 88+07.9	LT	HMA	HMA	608.020102	R	24.5		3.5		RECONSTRUCTION
DR 14-06	RR 88+81.8	LT	HMA	HMA	608.020102	R	23.8	6.0	4.5		RECONSTRUCTION
DR 14-07	RR 83+57.6	RT	PAVERS	PAVERS	608.10080008	R	13.1		3.0		RE-SET EXISTING PAVERS
DR 14-08	RR 84+04.2	RT	PAVERS	PAVERS	608.10080008	R	13.3		2.5		RE-SET EXISTING PAVERS
DR 14-09	RR 84+38.6	RT	HMA	HMA	608.020102	R	22.3		9.5		
DR 14-10	RR 84+68.9	RT	HMA	HMA	608.020102	R	13.9	5.5	3.5		
DR 14-11	RR 85+59.0	RT	HMA	HMA	608.020102	R	11.6		5.5		
DR 14-12	RR 85+81.9	RT	CONC	CONC	608.0101	R	16.8		5.5		RECONSTRUCTION
DR 14-13	RR 86+05.4	RT	CONC	CONC	608.0101	R	26.3		6.0		RECONSTRUCTION
DR 14-14	RR 86+41.9	RT	HMA	HMA	608.020102	R	15.1		4.5		
DR 14-15	RR 87+02.3	RT	HMA	HMA	608.020102	R	11.9		3.5		RECONSTRUCTION
DR 14-16	RR 88+12.2	RT	HMA	HMA	608.020102	R	13.9		3.0		
DR 14-17	RR 89+50.0	RT	PAVERS	PAVERS	608.10080008	R	18.5		7.5		RE-SET EXISTING PAVERS
DR 15-01	RR 90+24.6	LT	HMA	HMA	608.020102	R	12.1	4.0	4.5		RECONSTRUCTION
DR 15-02	RR 91+29.4	LT	HMA	HMA	608.020102	R	16.0	6.0	3.5		RECONSTRUCTION
DR 15-03	RR 94+45.2	LT	HMA	HMA	608.020102	R	31.4		4.0		
DR 15-04	RR 90+58.7	RT	HMA	HMA	608.020102	R	14.7	6.0	3.0		
DR 15-05	RR 91+11.2	RT	GRAVEL	GRAVEL	304.11000008	R	11.3		4.5		
DR 15-06	RR 91+34.8	RT	HMA	HMA	608.020102	R	13.8		4.5		RECONSTRUCTION

ITEM	DESCRIPTION
304.11000008	SUBBASE COURSE, MODIFIED
608.0101	CONCRETE SIDEWALKS AND DRIVEWAYS
608.020102	HOT MIX ASPHALT, (HMA) SIDEWALKS, DRIVEWAYS AND BICYCLE PATH
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TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

DRIVEWAY TABLE

AS-BUILT REVISIONS	DATE			
		DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
		DATE: NOV 2020	SCALE: NO SCALE	PROJ. NO.: 839.001.001
		DWG No.: DRT-03		SHEET 23 of 104

F:\Project\839 - Rockland County\839001001 River Road CR1\CADD\Project Files\Current Autocad Files\875522b2_drt 03.dwg Layout: Layout1 Plot Date Nov 30 20 Time: 10:09 AM

STA RR 11+50.78; 11' LT
END LANE TAPER

ITEM 608.0101
4' WIDE CONCRETE SIDEWALK

ITEM 608.0101
TYPE 2 CURB RAMP
ITEM 608.21000003
EMBEDDED DETECTABLE WARNING UNIT

STA RR 11+20 LT
ITEM 608.0101
SIDEWALK RAMP TYPE 2
ITEM 608.21000003
DETECTABLE WARNING UNIT

LANDS N/F
CHRISTOPHER MARLENE SANDERS
INST. ID # 1996-9675
TAX ID 75.22-2-4

STA RR 11+15
BEGIN CONCRETE SIDEWALK

LIMIT OF WORK

STA RR 11+00; 15' LT
BEGIN LANE TAPER

STA RR 11+85 LT
ITEM 608.0101
SIDEWALK RAMP TYPE 2
ITEM 608.21000003
DETECTABLE WARNING UNIT

STA RR 10+50.00
BEGIN RECONSTRUCTION - LT
BEGIN MILL AND OVERLAY - RT
MEET EXISTING GRADE

STA RR 11+20 RT
ITEM 608.0101
SIDEWALK RAMP TYPE 9
ITEM 608.21000003
DETECTABLE WARNING UNIT

STA RR 11+75 RT
BEGIN RECONSTRUCTION

LANDS N/F
ST. JOHN'S R.C. CHURCH
L. 279 P. 361
TAX ID 75.22-2-13

SAINT JOHN'S CHURCH # 895

STEVENSON STREET

ITEM 608.0101
TYPE 5 CURB RAMP

LANDS N/F
JORDAN BARILE & LISA DEFECIANI
L. 14 P. 828
TAX ID 75.22-2-3

LANDS N/F
CAITLYN GALLUCCI
2016-12700
TAX ID 75.22-1-11

LANDS N/F
JOHN & MURIEL BUDROCK
L. 780 P. 1059
TAX ID 75.22-1-12

LANDS N/F
JULES & LILA WEINBERG
TAX ID 75.22-1-13

LANDS N/F
SUSAN D BERKE
TAX ID 75.22-1-14

M104 P104 PE
M103 P103 PE
M102 P102 PE
M101 P101 PE

STA RR 12+10
END CONCRETE SIDEWALK

ITEM 608.0101

STA RR 12+25 RT
STOP RECONSTRUCTION
RESUME MILL AND OVERLAY

ITEM 608.0101
4' WIDE CONCRETE SIDEWALK (TYP.)

STA RR 14+50 RT
STOP RECONSTRUCTION
RESUME MILL AND OVERLAY

MATCH LINE STA RR 15+50

RIVER ROAD
(C.R.-1)

CURVE NO. 1

LANDS N/F
DIANNE LICATA
L. 736 P.5224
TAX ID 75.22-1-6

LANDS N/F
ROBERT & MARLENE KLEINER
TAX ID 75.22-1-7

LANDS N/F
MATHEW D. DONN & TARA A. DONN
INST. ID # 2005-26506 TAX ID 75.22-1-5

ITEM 607.97000008
REMOVE AND RESET EXISTING FENCE

ITEM 608.0101

VILLAGE OF PIERMONT

VILLAGE OF GRANDVIEW-ON-HUDSON

LEGEND

- MILL / OVERLAY
- FULL DEPTH RECONSTRUCTION
- NRE — NATIONAL HISTORIC REGISTER ELIGIBLE

NOTES;
1. SEE DWG NO ALI-01 AND ALI-02 FOR CENTERLINE GEOMETRY AND CURVE DATA.
2. SEE DRIVEWAY TABLE FOR LAYOUT, DWG NO DRT-01 THRU DRT-03.
3. SEE CURB TABLE FOR FULL REVEAL AND DROP CURB LIMITS, DWG NO MST-02 AND MST-03.

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AS-BUILT REVISIONS	DATE

ROCKLAND COUNTY HIGHWAY DEPARTMENT

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STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

PLAN
STA RR 10+00 TO STA RR 15+50

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: PLN-01		SHEET 24 of 104

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LANDS N/F
BRIGITTE PASTERNAK
TAX ID 75.22-1-15

HOUSE #289

NRE
HOUSE #285

HOUSE #301

LANDS N/F
MARY ROOT TAUCHER
INST. ID # 2000-36827
TAX ID 75.22-1-16

STA RR 16+50 LT
STOP MILL AND OVERLAY
BEGIN RECONSTRUCTION

LANDS N/F
SAMETT
TAX ID 75.22-1-17

LANDS N/F
ROBERT G & ZUMRA P. MANER
INST. ID # 2003-11317
TAX ID 75.22-1-2

LANDS N/F
SONJA SAVIG
L. 814 P. 681
TAX ID 75.22-1-1

LANDS N/F
MARIA T BELLA
L. 749 P. 4106
TAX ID 71.78-1-12

LANDS N/F
THOMAS A & JUDITH BOYD
L. 536 P. 864
TAX ID 71.78-1-14

HOUSE #279

LANDS N/F
JOHN PIKE & PATRICIA GUNNING
TAX ID 71.78-1-9

HOUSE #277

LANDS N/F
MICHAEL A & BONNIE BEU PILAR
INST. ID # 1997-35050
TAX ID 71.78-1-16

HOUSE #271

HOUSE #283

HOUSE #281

STA RR 19+00 LT
STOP RECONSTRUCTION
RESUME MILL AND OVERLAY

MATCH LINE STA RR 15+50

MATCH LINE STA RR 21+50

RIVER ROAD
(C.R.-1)

CURVE NO. 2

CURVE NO. 3

PC RR 16+00

PT RR 17+00

RR 18+00

RR 19+00

PC RR 20+00

RR 21+00

HCL & TCL

SR-1

ITEM 606.1001
INSTALL BOX BEAM
GUIDERAIL

ITEM 608.020102
HOT MIX ASPHALT (HMA)
SIDEWALK (TYP)

ITEM 608.0101
4' WIDE CONCRETE
SIDEWALK

ITEM 608.0101

ITEM 608.0101

HOUSE #300

HOUSE #290

HOUSE #280

HOUSE #276

LANDS N/F
JAMES & ROBIN H DELANEY
TAX ID 75.22-1-4.1

LANDS N/F
JAMES & ROBIN H DELANEY
TAX ID 75.22-1-4.2

LANDS N/F
FRANKLIN J & AGATHA C CATON
INST. ID # 1998-59500
TAX ID 75.22-1-3

LANDS N/F
FRANK R. SINCLAIR
TRUSTEE OF THE FRANK SINCLAIR TRUST
AND BEATRICE SINCLAIR TRUSTEE OF THE
BEATRICE SINCLAIR TRUST
INST. ID # 1999-50761
TAX ID 71.78-1-11

LANDS N/F
DONALD & URSULA VERNON
L. 665 P.385
TAX ID 71.78-1-8

LANDS N/F
ROBERTA S MITCHELL
TAX ID 71.78-1-7

LANDS N/F
LAWRENCE & WENDY ANNE LYNE
L. 722 P.5264
TAX ID 71.78-1-6

LANDS N/F
JOHN PIKE & PATRICIA GUNNING
TAX ID 71.78-1-9

LANDS N/F
THOMAS A & JUDITH BOYD
L. 536 P. 864
TAX ID 71.78-1-10

CHAIN LINK FENCE

BM#2 RR SPIKE
NYT 229
61394
EL.= 31.47'

LEGEND

- MILL / OVERLAY
- FULL DEPTH RECONSTRUCTION
- NRE — NATIONAL HISTORIC REGISTER ELIGIBLE

20' 20 0 20 40Ft.

NOTES;

1. SEE DWG NO ALI-01 AND ALI-02 FOR CENTERLINE GEOMETRY AND CURVE DATA.
2. SEE DRIVEWAY TABLE FOR LAYOUT, DWG NO DRT-01 THRU DRT-03.
3. SEE CURB TABLE FOR FULL REVEAL AND DROP CURB LIMITS, DWG NO MST-02 AND MST-03.

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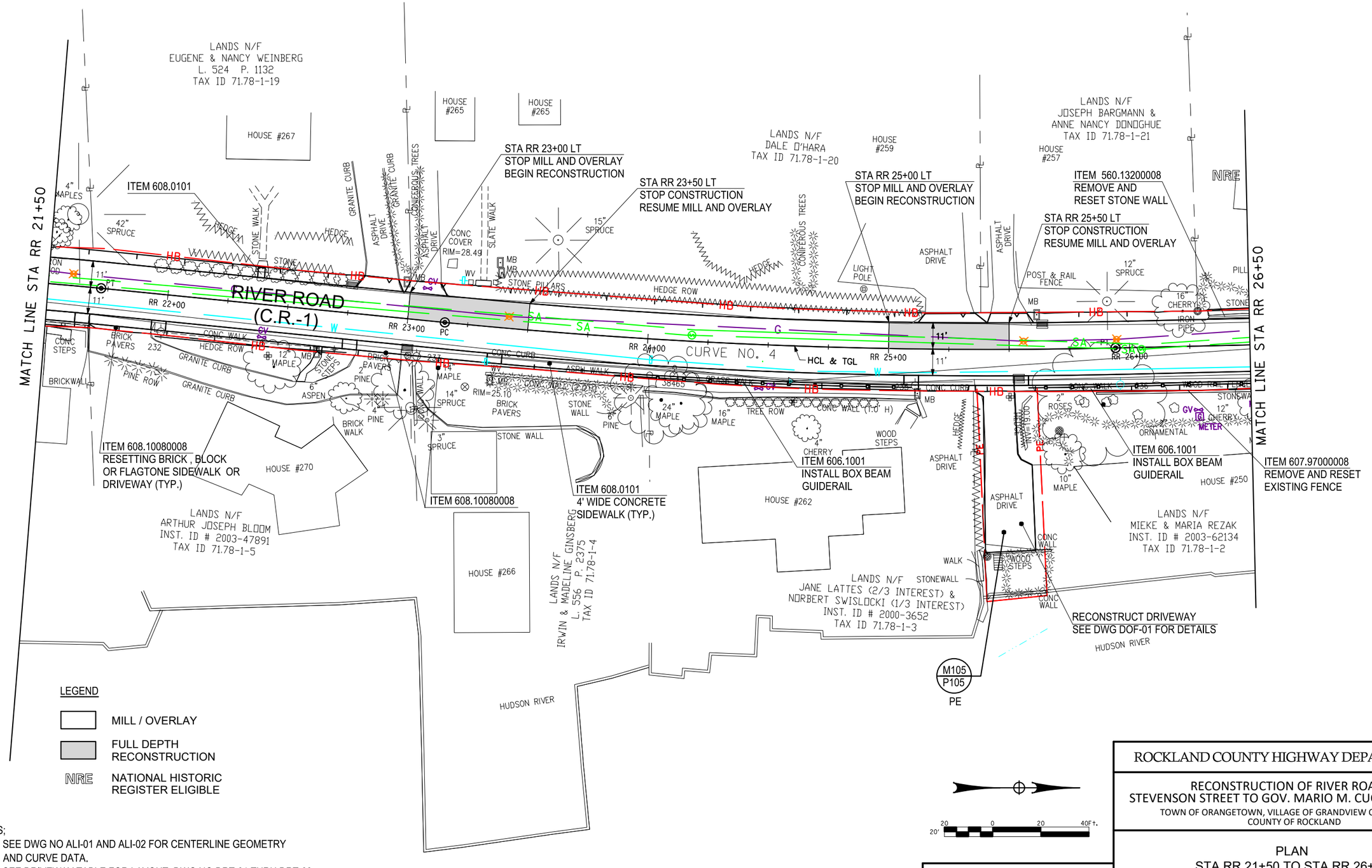
ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

PLAN
STA RR 15+50 TO STA RR 21+50

AS-BUILT REVISIONS	DATE

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: PLN-02		SHEET 25 of 104



NOTES;

1. SEE DWG NO ALI-01 AND ALI-02 FOR CENTERLINE GEOMETRY AND CURVE DATA.
2. SEE DRIVEWAY TABLE FOR LAYOUT, DWG NO DRT-01 THRU DRT-03.
3. SEE CURB TABLE FOR FULL REVEAL AND DROP CURB LIMITS, DWG NO MST-02 AND MST-03.

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AS-BUILT REVISIONS	DATE

ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

PLAN
STA RR 21+50 TO STA RR 26+50

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: PLN-03		SHEET 26 of 104

F:\Project\839 - Rockland County\839001001 River Road CR1\CADD\Project Files\Current Autocad Files\875522b2_pln 03.dwg Layout: Layout1 Plot Date Nov 30 20 Time: 10:10 AM

LEGEND

MILL / OVERLAY

FULL DEPTH RECONSTRUCTION

NRE NATIONAL HISTORIC REGISTER ELIGIBLE

MATCH LINE STA RR 26+50

MATCH LINE STA RR 32+50

RIVER ROAD (C.R.-1)

CURVE NO. 5

RR 27+00 RR 28+00 RR 29+00 RR 30+00 RR 31+00 RR 32+00

LANDS N/F
JOHN M & BARBARA KEIL
INST. ID # 1997-20087
TAX ID 71.78-1-1

LANDS N/F
WILLIAM M. & ELIZABETH A. HART
INST. ID # 2003-57892
TAX ID 71.70-1-9.1

LANDS N/F
FRANK & CYNTHIA RAPHAEL
INST. ID # 1999-45340
TAX ID 71.70-1-9.2

LANDS N/F
JOSEPH R. MORLEY & HEATHER M. WINTERS
INST. ID # 2002-20665
TAX ID 71.70-1-10

LANDS N/F
MARY POST & EUGENE POLINSKY
L. 433 P. 1891
TAX ID 71.70-1-11

LANDS N/F
NIELS ØSTBYE
L. 501 P. 1768
TAX ID 71.70-1-8

LANDS N/F
DORIS BUXBAUM TRUST
2006-35390

LANDS N/F
CHLOE ANTHONY MORRISON
L. 1030 P. 273
TAX ID 71.70-1-6

HOUSE #225
HOUSE #237
HOUSE #243
HOUSE #245
HOUSE #251 NRE
HOUSE #242 NRE
HOUSE #230
HOUSE #224

ITEM 608.10080008
RESETTING BRICK, BLOCK OR FLAGSTONE DRIVEWAY OR SIDEWALK (TYP.)

ITEM 560.13200008
REMOVE AND RESET STONE WALL

ITEM 608.0101

ITEM 608.10080008

ITEM 607.97000008
REMOVE AND RESET EXISTING FENCE

ITEM 606.1001
INSTALL BOX BEAM GUIDERAIL

ITEM 607.88000003
REPAIR AND RESET EXISTING FENCE GATE (TYP)

RECONSTRUCT DRIVEWAY
SEE DWG DOF-02 FOR DETAILS

ITEM 608.0101
4' WIDE CONCRETE SIDEWALK (TYP)

ITEM 607.88000003

ITEM 608.10080008 (TYP)

ITEM 606.1001
INSTALL BOX BEAM GUIDERAIL

DESIGNATED STREET LINE (50' R.O.W.)

MINOR SUBDIVISION
ROBIN WINKLER
8/1995

HART BARTHYDT RESIDENCE
10/27/03

EDGE OF TIDAL WATERS

NOTES:
1. SEE DWG NO ALI-01 AND ALI-02 FOR CENTERLINE GEOMETRY AND CURVE DATA.
2. SEE DRIVEWAY TABLE FOR LAYOUT, DWG NO DRT-01 THRU DRT-03.
3. SEE CURB TABLE FOR FULL REVEAL AND DROP CURB LIMITS, DWG NO MST-02 AND MST-03.

20' 20 0 20 40Ft.

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ROCKLAND COUNTY HIGHWAY DEPARTMENT

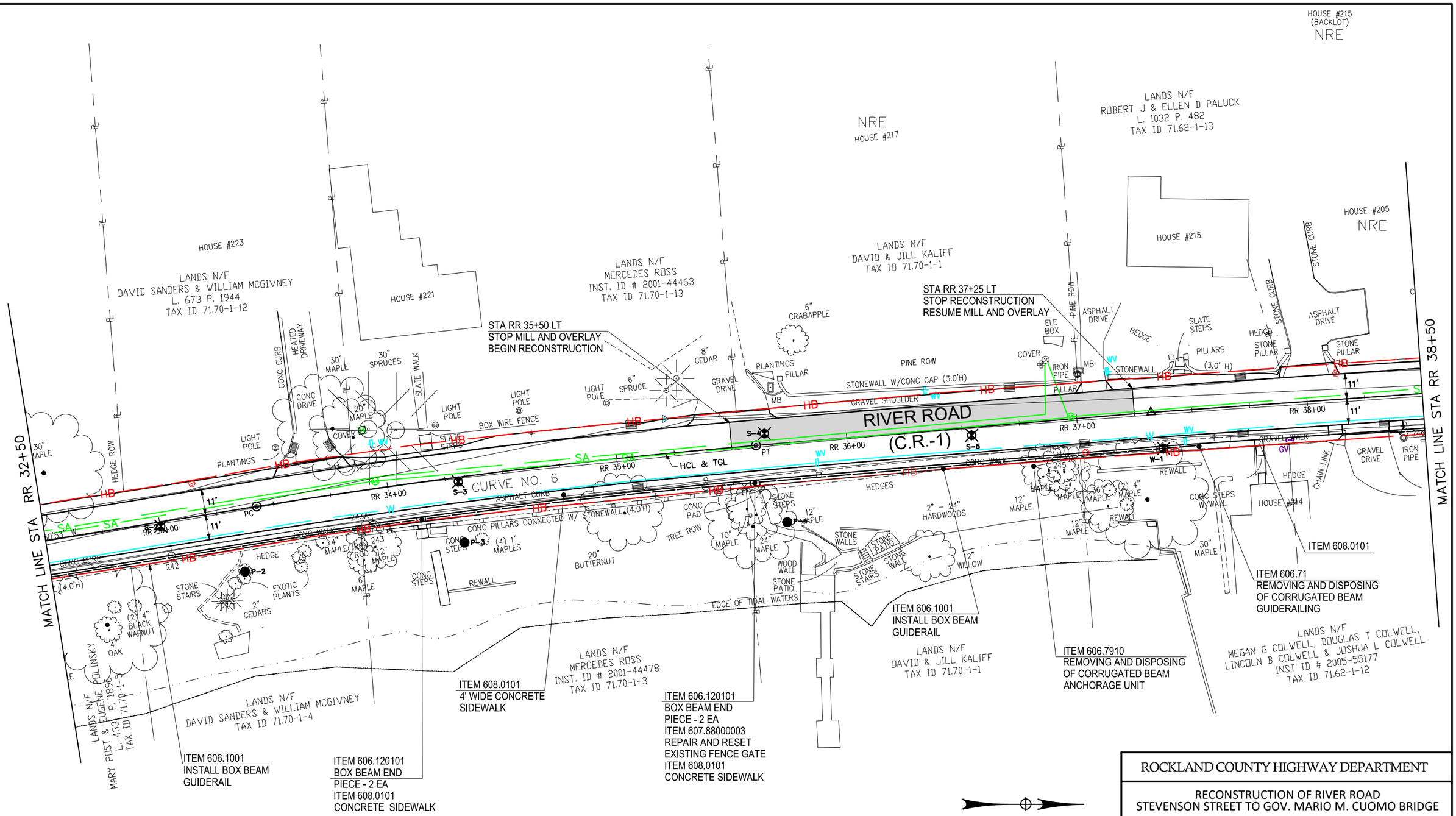
RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

PLAN
STA RR 26+50 TO STA RR 32+50

AS-BUILT REVISIONS	DATE

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: PLN-04		SHEET 27 of 104

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NOTES;

1. SEE DWG NO ALI-01 AND ALI-02 FOR CENTERLINE GEOMETRY AND CURVE DATA.
2. SEE DRIVEWAY TABLE FOR LAYOUT, DWG NO DRT-01 THRU DRT-03.
3. SEE CURB TABLE FOR FULL REVEAL AND DROP CURB LIMITS, DWG NO MST-02 AND MST-03.

LEGEND

- MILL / OVERLAY
- FULL DEPTH RECONSTRUCTION
- NRE — NATIONAL HISTORIC REGISTER ELIGIBLE

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RECONSTRUCTION OF RIVER ROAD
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TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

PLAN
STA RR 32+50 TO STA RR 38+50

AS-BUILT REVISIONS	DATE

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: PLN-05		SHEET 28 of 104

F:\Project\839 - Rockland County\839001001 River Road CR1\CADD\Project Files\Current Autocad Files\875522b2_pln 05.dwg Layout: Layout1 Plot Date Feb 18 21 Time: 1:58 PM

LEGEND

MILL / OVERLAY

FULL DEPTH RECONSTRUCTION

NRE NATIONAL HISTORIC REGISTER ELIGIBLE

NRE

HOUSE #205

LANDS N/F
CHARLES & MARY CALLAN
INST. ID # 1998-57488
TAX ID 71.62-1-16

CONC LANDSCAPE POND

12" CEDAR

LANDS N/F
DIANE TOMASELLO SMITH
INST. ID # 2000-31401
TAX ID 71.62-1-18

STA RR 41+50 LT/RT
STOP MILL AND OVERLAY
BEGIN RECONSTRUCTION

HOUSE #199

48" SPRUCE

LANDS N/F
DIANE TOMASELLO SMITH
L. 276 P.2529
TAX ID 71.62-1-19

HOUSE #191

LANDS N/F
KENNETH M. & VIRGINIA B. M
L. 10 P. 1477
TAX ID 71.62-1-22

HOUSE #187

MATCH LINE STA RR 38+50

MATCH LINE STA RR 44+50

RIVER ROAD
(C.R.-1)

2006 b N 2°32'08" W

2006 b N 6°55'51" W

RR 38+00

RR 39+00

RR 40+00

RR 41+00

RR 42+00

RR 43+00

RR 44+00

63+00

CURVE NO. 7

11'

HCL & TGL

CONC CURB

CONC WALK

CONC GUTTER

HEDGES

HEDGE

HEDGE ROW

STONEWALL (1.5 H)

STONEWALL (3.0' H)

STONEWALL

REWALL

CHAIN LINK FENCE (3.5' H)

CONC WALL

TIMBER WALL ALONG DRIVEWAY

STONE PILLAR

STONE PILLARS

IRON ROD

GRAVEL DRIVE

BENCH

SLATE WALK

6" COTTONWOOD

ITEM 608.0101

ITEM 608.0101
4' WIDE CONCRETE SIDEWALK (TYP.)

ITEM 606.1001
INSTALL BOX BEAM GUIDERAIL

HOUSE #202

1 STY GAR. #202

CONC WALL

WOOD RAIL FENCE

HOUSE #204

LANDS N/F
LINDA CHRISTOPHER
INST. ID # 1998-52432
TAX ID 71.62-1-10

BM#4 RR SPIKE
NYT 248
61380
EL.= 25.81'

LANDS N/F
DIANE TOMASELLO SMITH
INST. ID # 2000-31401
TAX ID 71.62-1-9

ITEM 608.0101

ITEM 608.10080008
RESET STONE STEPS

LANDS N/F
LAWRENCE E. SMITH JR.
TAX ID 71.62-1-8

ITEM 608.0101

ITEM 606.1001
INSTALL BOX BEAM GUIDERAIL

HOUSE #192

LANDS N/F
JOSEPH ABRAMS
INST. ID #
TAX ID 71.62-1-7

HOUSE #186

LANDS N/F
THE EBERHARD MAX THI
REVOCABLE TRUS
INST. ID # 2000-18
TAX ID 71.62-1-6

CONC CURB

ASPHALT DRIVE

STUMP

GARAGE

CONC PAD

CONC WALL

4" SYC.

14" CEDAR

4" SPRUCE

18" CEDAR

4" CHERRY

8" MAPLE

30" MAPLE

36" MAPLE

40" MAPLE

18" SPRUCE

26" BLACK WALNUT

34" MAPLE

24" MAPLE

14" MAPLE

18" MAPLE

12" MAPLE

10" MAPLE

36" OAK

4" PINE

12" PINE

20' 0 20 40Ft.

NOTES;

1. SEE DWG NO ALI-01 AND ALI-02 FOR CENTERLINE GEOMETRY AND CURVE DATA.
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3. SEE CURB TABLE FOR FULL REVEAL AND DROP CURB LIMITS, DWG NO MST-02 AND MST-03.

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AS-BUILT REVISIONS	DATE

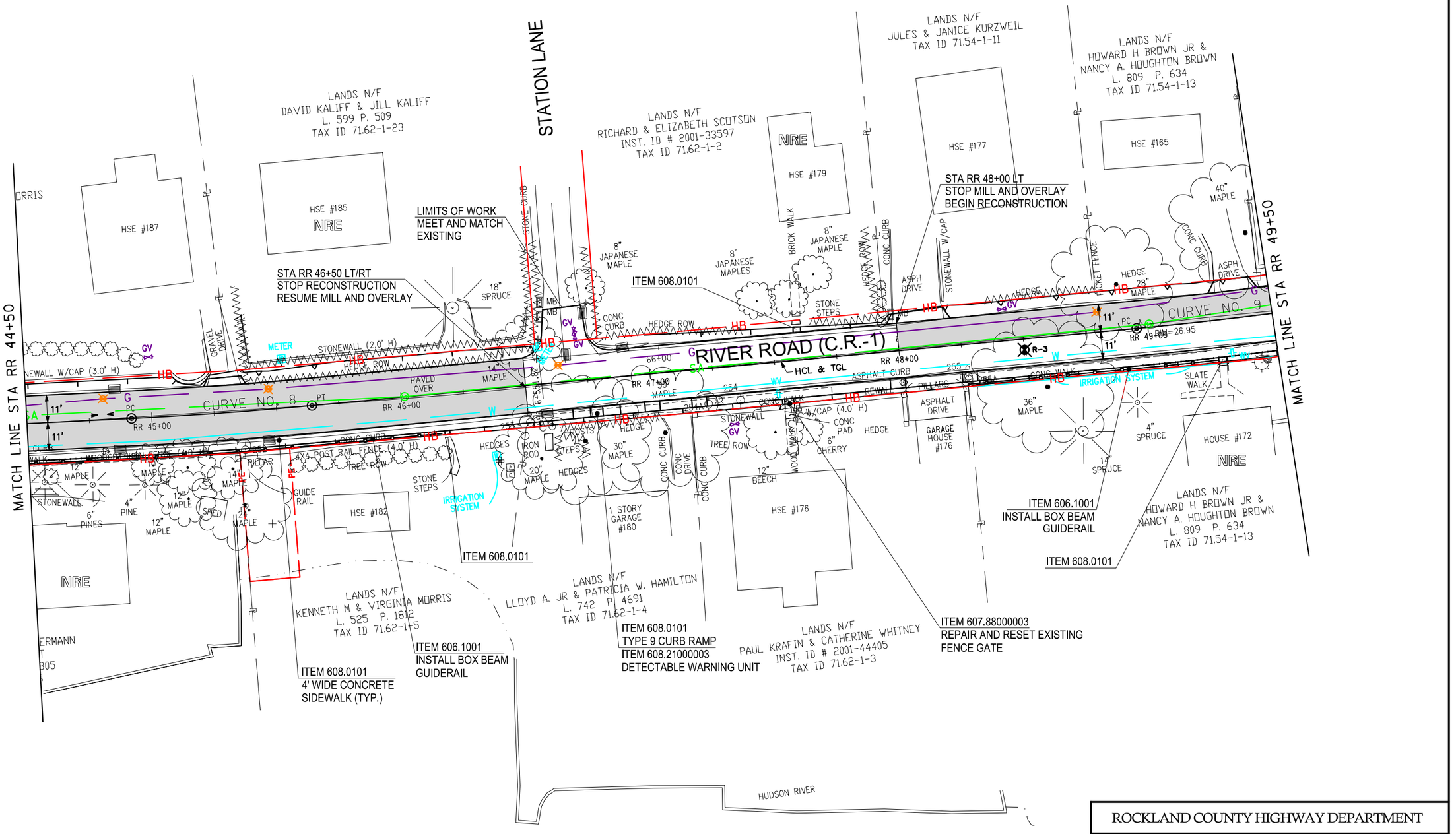
ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

PLAN
STA RR 38+50 TO STA RR 44+50

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: PLN-06		SHEET 29 of 104

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NOTES;

1. SEE DWG NO ALI-01 AND ALI-02 FOR CENTERLINE GEOMETRY AND CURVE DATA.
2. SEE DRIVEWAY TABLE FOR LAYOUT, DWG NO DRT-01 THRU DRT-03.
3. SEE CURB TABLE FOR FULL REVEAL AND DROP CURB LIMITS, DWG NO MST-02 AND MST-03.

LEGEND

- MILL / OVERLAY
- FULL DEPTH RECONSTRUCTION
- NRE — NATIONAL HISTORIC REGISTER ELIGIBLE

20' 0 20 40Ft.

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AS-BUILT REVISIONS	DATE

ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

PLAN
STA RR 44+50 TO STA RR 49+50

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: PLN-07		SHEET 30 of 104

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LANDS N/F
SUSAN IURICA
INST. ID # 1998-62843
TAX ID 71.54-1-14

HSE #163

LANDS N/F
MICHAEL SCHOEN & DIANE DIMOND
INST. ID # 1999-60276
TAX ID 71.54-1-15

HOUSE #161

LANDS N/F
ANDREW HARNETT & JENNIFER HARNETT
INST. ID # 2004-70059
TAX ID 71.54-1-16

HOUSE #159

HOUSE #151

LANDS N/F
CATHY & CHARLES SPAGNA
TAX ID 71.54-1-18

STA RR 50+00 LT
STOP RECONSTRUCTION
RESUME MILL AND OVERLAY

ANGLE POINT
STA RR 55+15.02

MATCH LINE STA RR 49+50

MATCH LINE STA RR 55+50

RIVER ROAD (C.R.-1)

CURVE NO. 9

CURVE NO. 10

RR 50+00

RR 51+00

RR 52+00

RR 53+00

RR 54+00

PC

PT

HCL & TGL

E.T.C

S-6

S-7

SR-8

P-6

P-7

11'

SA

HB

W

G

WV

GV

MB

STONEWALL (4.5' H)

STONEWALL (4.0' H)

STONE PILLAR

IRON PIPE

POST

ASPH DRIVE

ASPHALT DRIVE

HEDGE

PLANTINGS

14" SPRUCE

2" JAPANESE MAPLE

4" CHERRY

6" CHERRY

30" MAPLE

GRANITE MON

2006 b N 4°54'07" W 262.26'

CONC CURB

CONC WALK

DIRT WALK

2X4 GUIDE RAIL FENCE (3.0' H)

CHAIN LINK FENCE (3.5' H)

CHAIN LINK (3.0' H)

ASPHALT DRIVE

IRRIGATION SYSTEM

IRON ROD

TREE ROW

CONC STEPS

12" SPRUCE

HOUSE #162

HOUSE #160

CHAIN LINK FENCE

REWALL

38736
258

STONE DRIVEWAY

WALL

CONC

345'
(4.5' H)

IRON PIPE

24" MAPLE

REWALL

12" MAPLE

WOOD STAIRS

BM#5 RR SPIKE
NYT260
61368
EL.=33.95'

8" OAK

14" OAK

12" MAPLE

18" OAK

WOOD DECK

ELECTRIC METER

END FENCE

12" MAPLES

CONC PAD

18" MAPLE

ALUMINUM DECK

EDGE OF TIDAL WATERS

HUDSON RIVER

BRICK WALL W

ITEM 608.0101
4' WIDE CONCRETE
SIDEWALK

ITEM 606.1001
INSTALL BOX BEAM
GUIDERAIL

ITEM 608.0101

ITEM 606.120101
BOX BEAM END
PIECE - 2 EA

ITEM 608.0101

LANDS N/F
JO-ELLEN PUTTER
L. 757 P. 4178
TAX ID 71.54-1-8

LANDS N/F
SUSAN IURICA, TRUSTEE
INST. ID # 1998-62845
TAX ID 71.54-1-9

LANDS N/F
ANDREW HARNETT & JENNIFER HARNETT
INST. ID # 2004-70059 TAX ID 71.54-1-16

LANDS N/F
GEORGE & KATHERINE S MITCHELL
L. 810 P. 763
TAX ID 71.54-1-5

LANDS N/F
MICHAEL SCHOEN & DIANE DIMOND
INST. ID # 1999-60276
TAX ID 71.54-1-6

ITEM 606.120101
BOX BEAM END
PIECE - 2 EA
ITEM 607.88000003
REPAIR AND RESET
EXISTING FENCE GATE

LANDS N/F
CATHY & CHARLES SPAGNA
TAX ID 71.54-1-18

LEGEND

MILL / OVERLAY

FULL DEPTH RECONSTRUCTION

NRE NATIONAL HISTORIC REGISTER ELIGIBLE

20' 20 0 20 40Ft.

NOTES;

1. SEE DWG NO ALI-01 AND ALI-02 FOR CENTERLINE GEOMETRY AND CURVE DATA.
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ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

PLAN
STA RR 49+50 TO STA RR 55+50

AS-BUILT REVISIONS	DATE			
		DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
		DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
		DWG No.: PLN-08		SHEET 31 of 104

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LANDS N/F
RICHARD DOW& HARRIET FLANIGAN
L. 773 P. 442
TAX ID 71.54-1-19

HOUSE #145

ITEM 608.10080008
RESET STONE STEPS

ITEM 608.0101

LANDS N/F
MICHAEL SIMBOLI & PAMELA JACOBS
TAX ID 71.54-1-1

HOUSE #143

ITEM 608.10080008
RESETTING BRICK, BLOCK OR
FLAGSTONE DRIVEWAY OR
SIDEWALK (TYP.)

LANDS N/F
GERARD C & MARIA C HELLMAN
TAX ID 71.46-1-10

HOUSE #141

LANDS N/F
JEAN ROSSI & LESLIE HELMERS
INST. ID # 2002-42363
TAX ID 71.46-1-13

HOUSE #135

STA RR 58+50 LT
STOP MILL AND OVERLAY
BEGIN RECONSTRUCTION

STA RR 59+50 LT
STOP RECONSTRUCTION
RESUME MILL AND OVERLAY

RIVER ROAD (C.R.-1)

CURVE NO. 11

MATCH LINE STA RR 55+50

MATCH LINE STA RR 60+50

ITEM 606.71
REMOVING AND DISPOSING OF
CORRUGATED BEAM GUIDE
RAILING

ITEM 606.120101
BOX BEAM END
PIECES - 2 EA

LANDS N/F
RICHARD DOW& HARRIET FLANIGAN
INST. ID # LA99-643662
L. 773 P. 442
TAX ID 71.54-1-19

LANDS N/F
MICHAEL SIMBOLI & PAMELA JACOBS
TAX ID 71.54-1-1

ITEM 606.1001
INSTALL BOX BEAM
GUIDERAIL

ITEM 606.120101
BOX BEAM END
PIECES - 2 EA
ITEM 607.88000003
REPAIR AND RESET EXISTING
FENCE GATE
ITEM 608.0101
CONCRETE SIDEWALK

LANDS N/F
GERARD C & MARIA C HELLMAN
TAX ID 71.46-1-9

ITEM 607.97000008
REMOVE AND RESET
EXISTING FENCE

LANDS N/F
JEAN ROSSI & LESLIE HELMER
INST. ID # 2002-23533
TAX ID 71.46-1-8

ITEM 608.0101
4' WIDE CONCRETE
SIDEWALK

LANDS N/F
STANLEY NG & LISA TSANG NG
INST. ID # 2001-41606
TAX ID 71.46-1-7

LEGEND

- MILL / OVERLAY
- FULL DEPTH RECONSTRUCTION
- NRE — NATIONAL HISTORIC REGISTER ELIGIBLE

NOTES;
1. SEE DWG NO ALI-01 AND ALI-02 FOR CENTERLINE GEOMETRY AND CURVE DATA.
2. SEE DRIVEWAY TABLE FOR LAYOUT, DWG NO DRT-01 THRU DRT-03.
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20' 20 0 20 40Ft.

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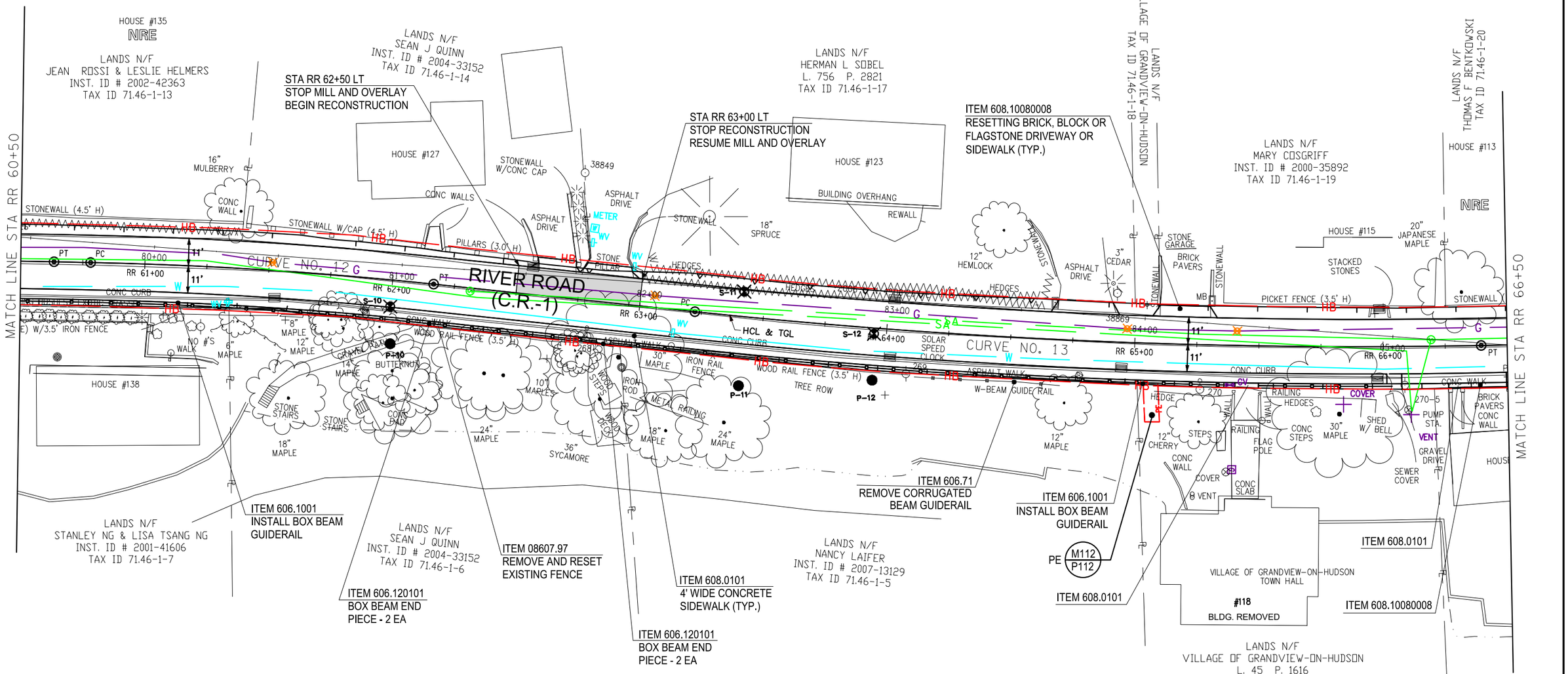
ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

PLAN
STA RR 55+50 TO STA RR 60+50

AS-BUILT REVISIONS	DATE			
		DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
		DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
		DWG No.: PLN-09		SHEET 32 of 104

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NOTES;
1. SEE DWG NO ALI-01 AND ALI-02 FOR CENTERLINE GEOMETRY AND CURVE DATA.
2. SEE DRIVEWAY TABLE FOR LAYOUT, DWG NO DRT-01 THRU DRT-03.
3. SEE CURB TABLE FOR FULL REVEAL AND DROP CURB LIMITS, DWG NO MST-02 AND MST-03.

LEGEND

MILL / OVERLAY

FULL DEPTH RECONSTRUCTION

NRE NATIONAL HISTORIC REGISTER ELIGIBLE

20' 20 0 20 40Ft.

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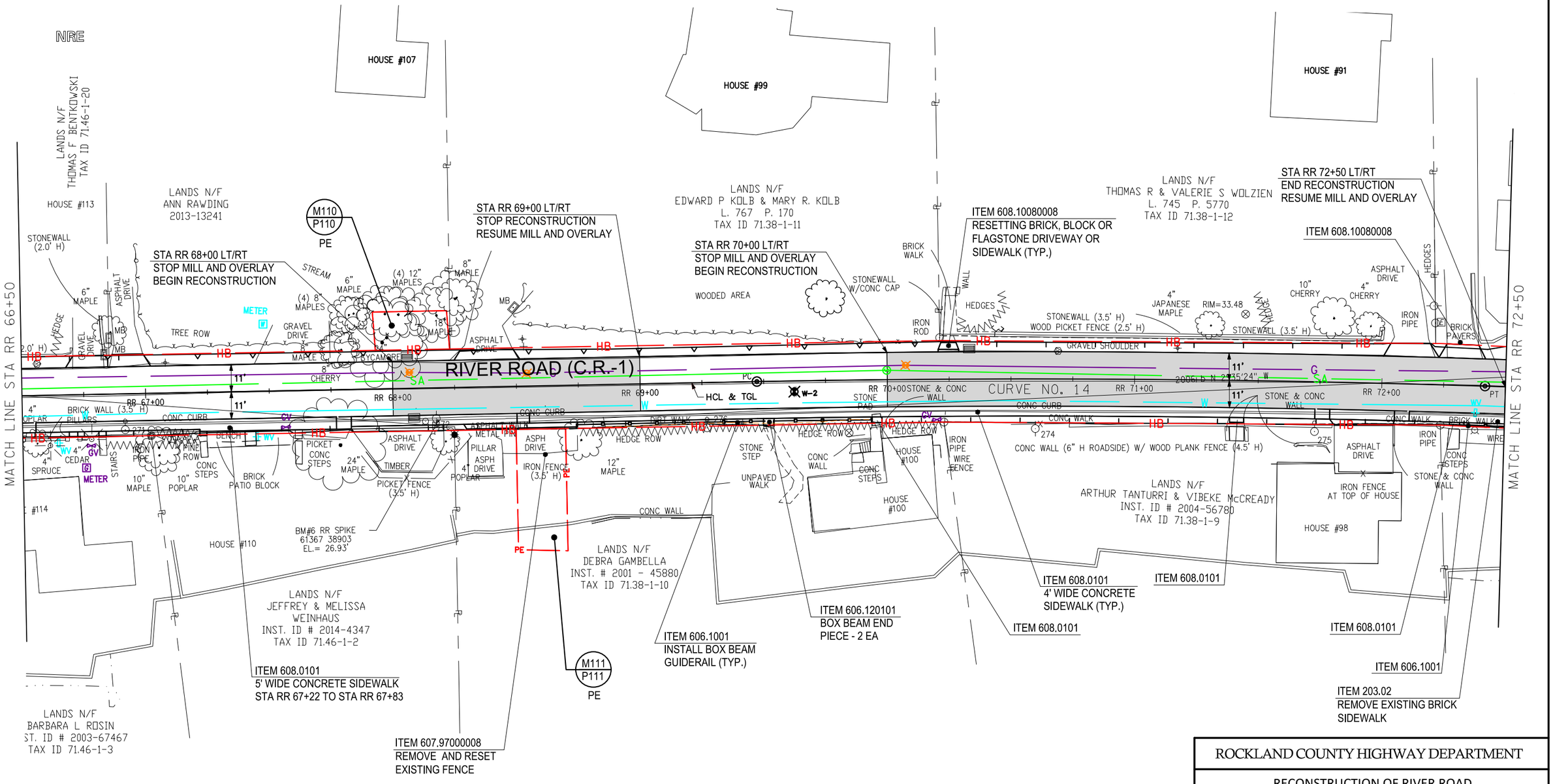
AS-BUILT REVISIONS	DATE
NRE	

ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

PLAN
STA RR 60+50 TO STA RR 66+50

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: PLN-10		SHEET 33 of 104



NOTES;

1. SEE DWG NO ALI-01 AND ALI-02 FOR CENTERLINE GEOMETRY AND CURVE DATA.
2. SEE DRIVEWAY TABLE FOR LAYOUT, DWG NO DRT-01 THRU DRT-03.
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LEGEND

- MILL / OVERLAY
- FULL DEPTH RECONSTRUCTION
- NRE — NATIONAL HISTORIC REGISTER ELIGIBLE

20' 20 0 20 40Ft.

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ROCKLAND COUNTY HIGHWAY DEPARTMENT

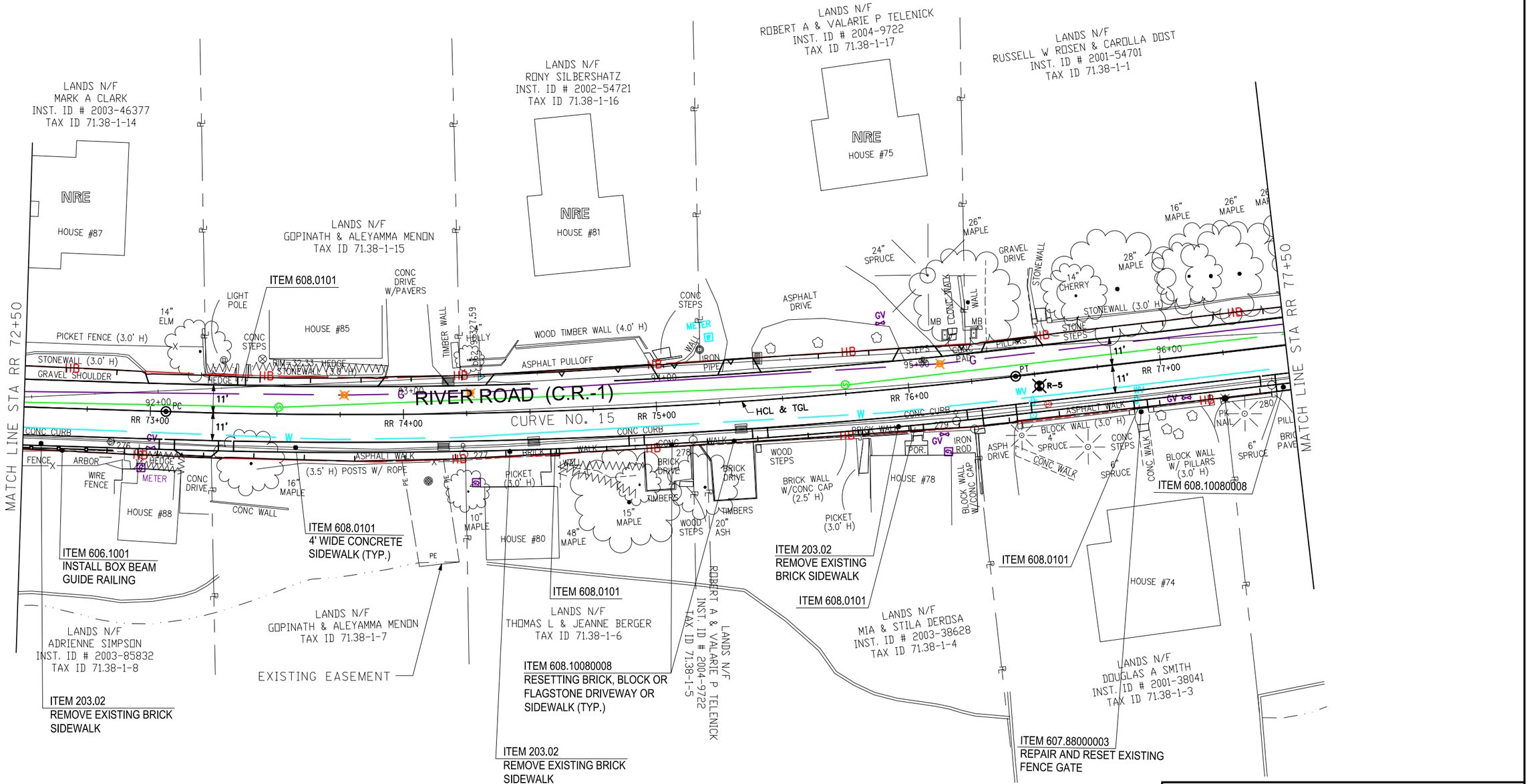
RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

PLAN
STA RR 66+50 TO STA RR 72+50

AS-BUILT REVISIONS	DATE

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: PLN-11		SHEET 34 of 104

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NOTES;

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LEGEND

- MILL / OVERLAY
- FULL DEPTH RECONSTRUCTION
- NRE — NATIONAL HISTORIC REGISTER ELIGIBLE

20' 0 20 40Ft.

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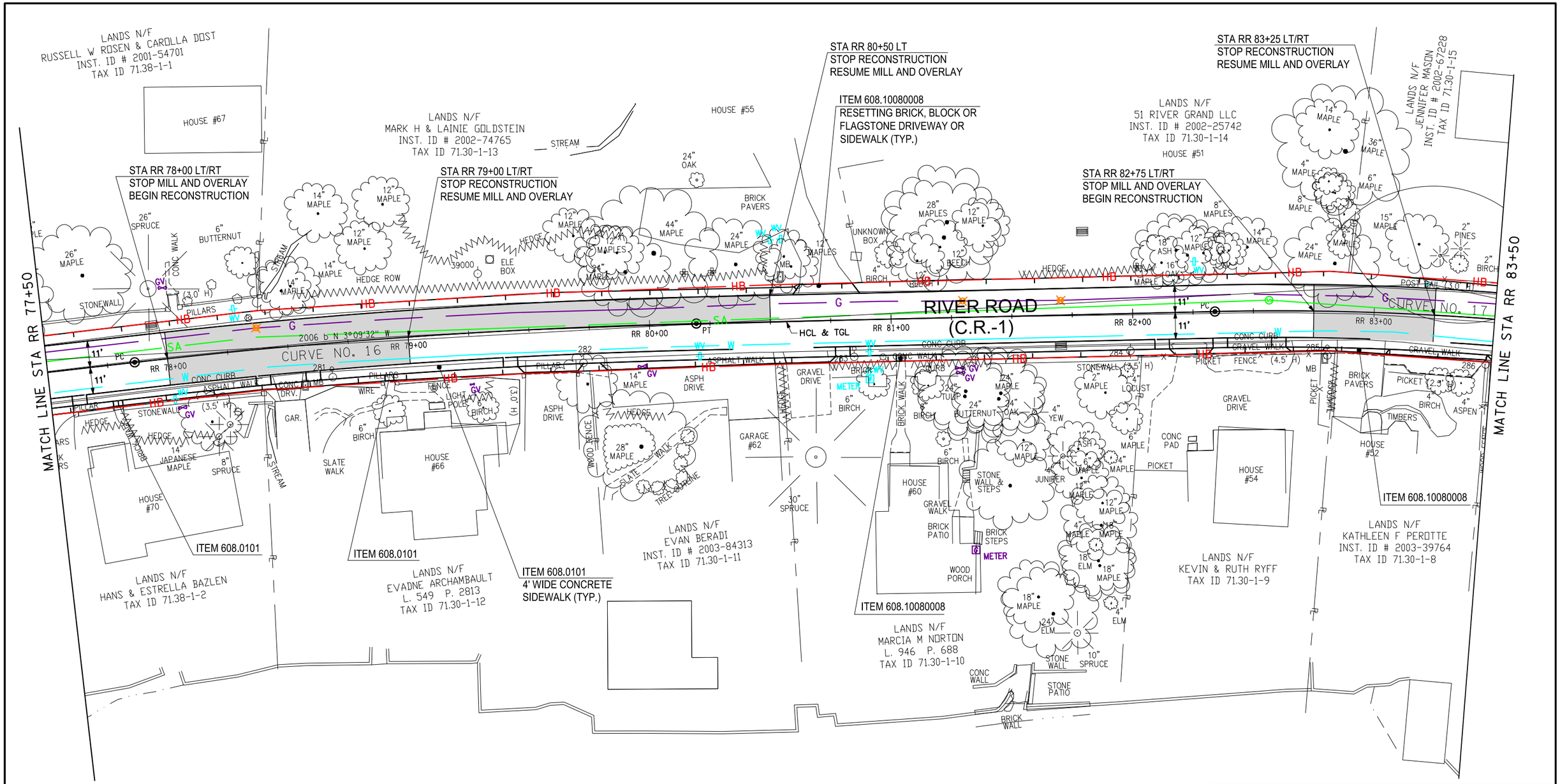
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TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

PLAN
STA RR 72+50 TO STA RR 77+50

AS-BUILT REVISIONS	DATE		
		DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
		DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
		DWG No.: PLN-12		SHEET 35 of 104

F:\Project\839 - Rockland County\839001001 River Road CR1\CADD\Project Files\Current Autocad Files\875522b2_pln 12.dwg Layout: Layout1 Plot Date Nov 30 20 Time: 10:13 AM

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LEGEND

- MILL / OVERLAY
- FULL DEPTH RECONSTRUCTION
- NRE NATIONAL HISTORIC REGISTER ELIGIBLE

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STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

PLAN
STA RR 77+50 TO STA RR 83+50

AS-BUILT REVISIONS	DATE

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: PLN-13		SHEET 36 of 104

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MATCH LINE STA RR 83+50

LANDS N/F
JENNIFER MASON
INST. ID # 2002-67228
TAX ID 71.30-1-15

LANDS N/F
KEVIN P GRIFFIN
L. 652 P. 1988
TAX ID 71.30-1-16
NRE

HOUSE #47

ITEM 608.10080008

BM#7 RR SPIKE
61358
39063
EL.= 38.05'

ITEM 608.10080008

LANDS N/F
DAVID GRDSS
INST. ID # 2001-35938
TAX ID 71.30-1-17

STA RR 86+00
STOP MILL AND OVERLAY
BEGIN RECONSTRUCTION

ITEM 608.10080008

LANDS N/F
LANCE PETRIK
L. 761 P. 5746
TAX ID 71.30-1-1

ITEM 608.10080008

HOUSE #35

LANDS N/F
KIMMARIE SULLIVAN
INST. ID # 2001-54287
TAX ID 71.30-1-2

LANDS N/F
PAULA COREY & JULIE DUNLAP
L. 750 P. 82395
TAX ID 71.22-1-8

LANDS N/F
SEYMOUR JR & SUZANNE PRESTON
INST. ID # 1998-30734
TAX ID 71.22-1-11

MATCH LINE STA RR 89+50

SPLIT RAIL
10" OAK
BRICK PAVERS
SLATE
MB
OAK CLUMP
STONEWALL
BRICK PAVERS
BLOCK WALL
12" PINE
SPLIT RAIL
SPLIT RAIL
14" SPRUCE
6" MAPLE
BRICK PAVERS
STONEWALL (2.0'H)
16" SPRUCE
12" SPRUCE
6" JAPANESE MAPLES
HOUSE #41
SLATE WALK
12" JAPANESE MAPLE
40" ASH TREES
40" MAPLE
HEDGE
STONEWALL W/ IRON
HEDGE
BRICK PAVERS
24" SPRUCE
TREE ROW
WOOD
HOUSE #33
40" MAPLE
STONEWALL
10" MAPLE
10" BIRCH
ASPH DRIVE
39103
4" BIRCH
STONEWALL (3.0'H)
6" MAPLE
12" JAPANESE MAPLE
8" MAPLE
39114
ASPH DRIVE

11'
11'
RR 84+00
CONC CURB
CURVE NO. 17
RR 85+00
PICKET FENCE (3.0' H)
HCL & TGL
2006 D N 12°09'09" E
PT
RR 86+00
CONC CURB
RIVER ROAD
(C.R.-1)
RR 87+00
FENCE (3.0' H)
PC
CURVE NO. 18
RR 88+00
CONC CURB
PICKET FENCE
RR 89+00
11'
11'
WOOD FENCE
STONEWALL (3.0'H)
PILLAR
PILLARS
STONEWALL (2.0'H)

IRON FENCE
BRICK PAVERS
STONE CURB
MB
16" ASH
IRON ROD
14" MAPLE
10" MAPLE
8" MAPLE
ASPH DRIVE
HOUSE #48
STONE
ASPH DRIVE
CURB
40" MAPLE
STONEWALL
STONEWALL W/IRON FENCE (3.0'H)
CONC PAD
WALL
4" JAPANESE MAPLE
81" PINE
LIGHT POLE
JAPANESE MAPLES
STONE
ASPH DRIVE
CURB
10" CEDAR
ASPHALT WALK
6" WALK
GARAGE #44
GARAGE #40
PINE
6" MAPLE
4" MAPLES
8" JAPANESE MAPLE
GRAVEL
ASPH DRIVE
MB
28" OAK
41' SPRUCES
289
40" MAPLE
HEDGES
4" CEDAR
36" SPRUCE
18" ASH
WALL
ASPH DRIVE
14" OAK
14" MAPLE
14" MAPLE
291
291A
WOOD FENCE
12" CEDAR
6" PINE
10" CEDARS
ASPHALT DRIVE
NO #'S
16" LOCUST
STONEWALL

HOUSE #50

LANDS N/F
MARK J IRGANG
INST. ID # 1997-22683
TAX ID 71.30-1-7

ITEM 604.0708
ADJUST MANHOLE

LANDS N/F
JANET FOULKES
INST. ID # 1999-31587
TAX ID 71.30-1-6

ITEM 608.10080008
RESETTING BRICK, BLOCK OR FLAGSTONE DRIVEWAY OR SIDEWALK (TYP.)

LANDS N/F
RAFAEL LATORRE
INST. ID # 2000-11553
TAX ID 71.30-1-5

ITEM 608.0101

HOUSE #44

LANDS N/F
LEONARD SINGER & CARYN TUCKMAN
INST. ID # 2000-8376
TAX ID 71.30-1-4

HOUSE #40

ITEM 608.0101
4' WIDE CONCRETE SIDEWALK (TYP.)

HOUSE #36

LANDS N/F
THOMAS J & DOROTHY B KI[illegible]
TAX ID 71.30-1-3

STOCKADE FENCE

LANDS N/F
BRENDAN CUNNEY
TAX ID 71.22-1-7

ITEM 606.1001
INSTALL BOX BEAM GUIDERAIL

ITEM 608.10080008

HOUSE #34

LEGEND

- MILL / OVERLAY
- FULL DEPTH RECONSTRUCTION
- NRE — NATIONAL HISTORIC REGISTER ELIGIBLE

NOTES;

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3. SEE CURB TABLE FOR FULL REVEAL AND DROP CURB LIMITS, DWG NO MST-02 AND MST-03.

20' 0 20 40Ft.

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ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

PLAN
STA RR 83+50 TO STA RR 89+50

AS-BUILT REVISIONS	DATE			
		DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
		DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
		DWG No.: PLN-14		SHEET 37 of 104

F:\Project\839 - Rockland County\839001001 River Road CR1\CADD\Project Files\Current Autocad Files\875522b2_pln 15.dwg Layout: Layout1 Plot Date Nov 30 20 Time: 10:14 AM

MATCH LINE STA RR 89+50

NRE
HOUSE #29

LANDS N/F
SEYMOUR JR & SUZANNE PRESTON
INST. ID # 1998-30734
TAX ID 71.22-1-11

LANDS N/F
JOHN F GEIST, JR
L. 516 P. 163
TAX ID 71.22-1-12

LANDS N/F
KEVIN B & JENETH KLEITZ
INST. ID # 1997-20349
TAX ID 71.22-1-14

NRE
HOUSE #23

LANDS N/F
FRANK J, JR & FRANCES PIAZZA
TAX ID 71.22-1-15

HOUSE #25
HOUSE #21
HOUSE #17

LANDS N/F
MARC CHALOM
TAX ID 71.22-1-16

PLANTINGS
CONC STEPS
3" BIRCH
CONC PAD
STEPS
ASPH DRIVE
WALK
STONEWALL (3.0'H TO 9.0'H)
HEDGE
STONE WALL
SLATE
STONE STEPS
PICKET
12" SPRUCES
12" JAPANESE MAPLE
WOOD & WIRE FENCE
16" ASH
32" SPRUCE
12" MAPLE
14" SPRUCE
14" WILLOW
HEDGE
STONEWALL (3.5' H)
CONC WALK
CONC CURB

HB
GV
WV
SA
NB
C

PC
RR 90+00
RR 91+00
RR 92+00
RR 93+00
RR 94+00
CURVE NO. 19
CURVE NO. 20
11'
12'
PT

IRON PIPE
14" MAPLE
12" OAK
12" CEDARS
10" CEDARS
12" MAPLE
SPLIT RAIL
COVER
STONE CURB
ASPHALT DRIVE
292
ASPHALT WALK
STONE CURB
6" MULBERRY
PLANTINGS
POST
SLATE
GRAVEL DRIVE
IRON FENCE
12" MAPLE
10" BEECH
20" MAPLE LIGHT POLE
8" MAPLE
8" PINE
30" LOCUST
10" MAPLE
8" MAPLE
30" LOCUST
10" MAPLES
4" LOCUST
10" LOCUST
295A
295
294
HCL & TGL
CONC WALK
CONC CURB
CHAIN LINK FENCE (8.0'H)
CHAIN LINK FENCE
BM#8 RR SPIKE
NYT295
61386 39150
EL.= 12.39'
PIER
GATE OPENING
ASPHALT DRIVE
4" BERRY
16" LARCH
24" LARCH
48" LOCUST
CONC MON
GRAN MON
RISER
5'

HOUSE #24
HOUSE #22
GAR #26

LANDS N/F
KATHLEEN MOSOLIND & RACHAEL MACK
INST. ID 2006-31381
TAX ID 71.22-1-6

LANDS N/F
GEORGE M ZOEBELEIN
TAX ID 71.22-1-5

LANDS N/F
DONALD W ALBRIGHT, JR
INST. ID # 1997-38212
TAX ID 71.22-1-4

LANDS N/F
WILLIAM PERRY, JR
INST. ID # 1997-38212
TAX ID 71.22-1-3

NATIONAL HISTORIC STRUCTURE

PEOPLE OF THE STATE OF NEW YORK

NYSTA MAINTENANCE
NYSDOT MAINT

HUDSON RIVER

RIVER ROAD (C.R.-1)

BIGHT LANE

MATCH LINE STA RR 94+50

STA RR 92+00
END RECONSTRUCTION
RESUME MILL AND OVERLAY

ITEM 203.02
REMOVE EXISTING CONCRETE SIDEWALK (TYP.)

LIMIT OF WORK
MEET AND MATCH EXISTING

ITEM 608.0101
TYPE 4 CURB RAMP
ITEM 608.21000003
DETECTABLE WARNING UNIT

ITEM 608.0101
5' WIDE CONCRETE SIDEWALK (TYP.)

ITEM 608.0101
4' WIDE CONCRETE SIDEWALK (TYP.)

ITEM 608.10080008
RESETTING BRICK, BLOCK OR FLAGSTONE DRIVEWAY OR SIDEWALK

STA RR 91+40.79; 15.5'RT
BEGIN SIDEWALK TAPER

STA RR 91+60.00; 16.5'RT
END SIDEWALK TAPER
ITEM 607.88000003
REPAIR AND RESET
EXISTING FENCE GATE

ITEM 608.0101
5' WIDE CONCRETE SIDEWALK (TYP.)

ITEM 608.0101

STA RR 93+75.40; 11'RT
BEGIN LANE TAPER
PC R=450 FT

ITEM 608.0101
TYPE 9 CURB RAMP
ITEM 608.21000003
DETECTABLE WARNING UNIT

20' 20 0 20 40Ft.

LEGEND

MILL / OVERLAY

FULL DEPTH RECONSTRUCTION

NRE NATIONAL HISTORIC REGISTER ELIGIBLE

NOTES;
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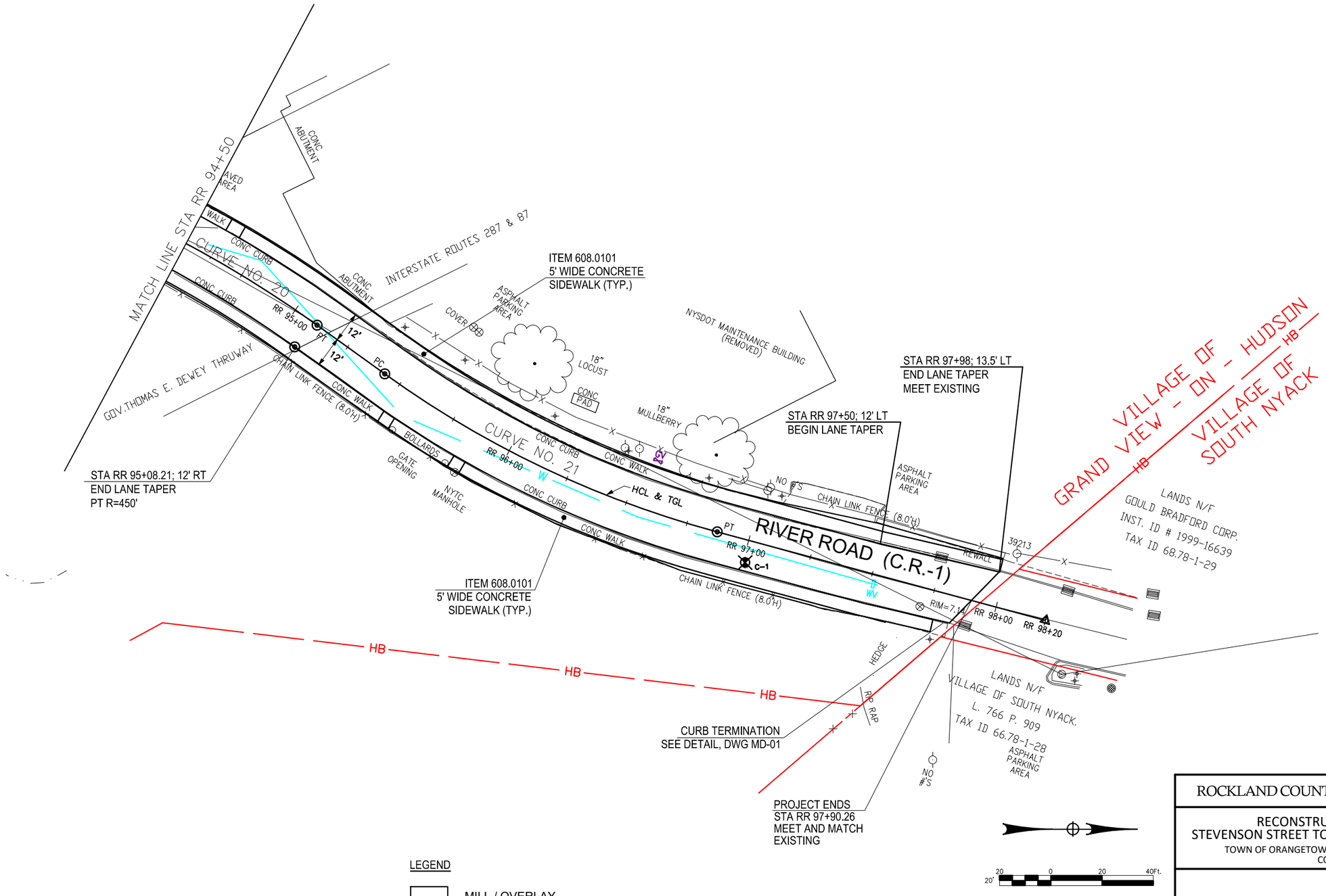
ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

PLAN
STA RR 89+50 TO STA RR 94+50

AS-BUILT REVISIONS	DATE

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
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DWG No.: PLN-15		SHEET 38 of 104



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LEGEND

- MILL / OVERLAY
- FULL DEPTH RECONSTRUCTION
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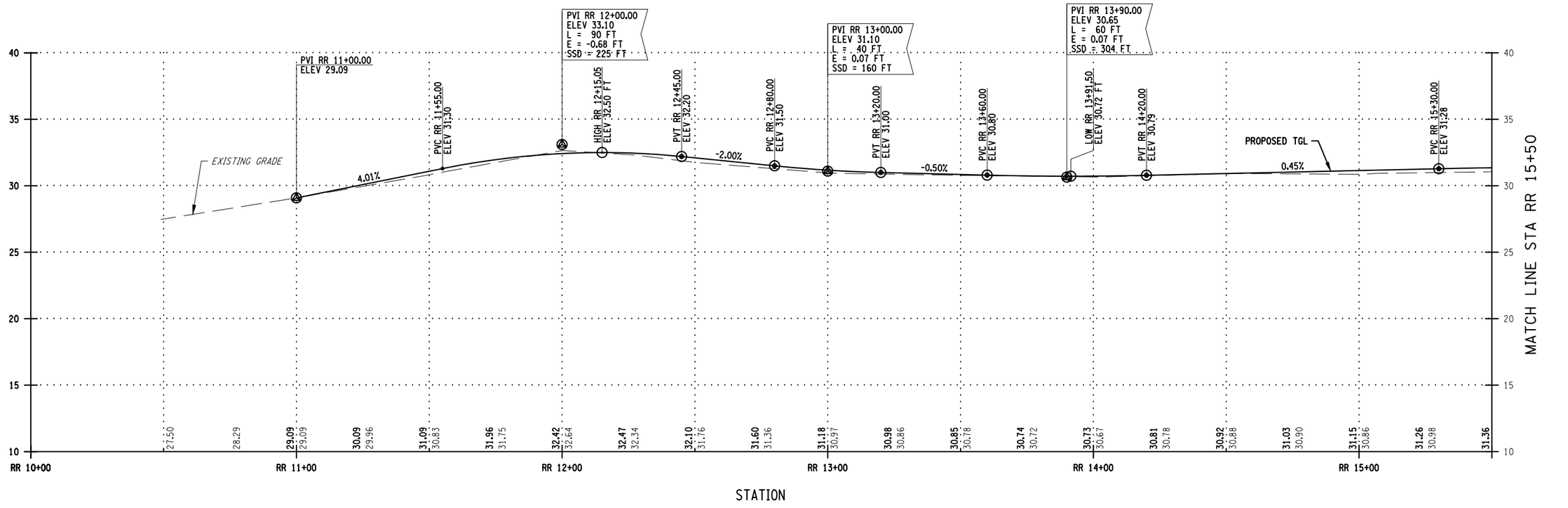
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PLAN
STA RR 93+50 TO STA RR 98+22

AS-BUILT REVISIONS	DATE			
		DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
		DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
		DWG No.: PLN-16		SHEET 39 of 104

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20'

ROCKLAND COUNTY HIGHWAY DEPARTMENT

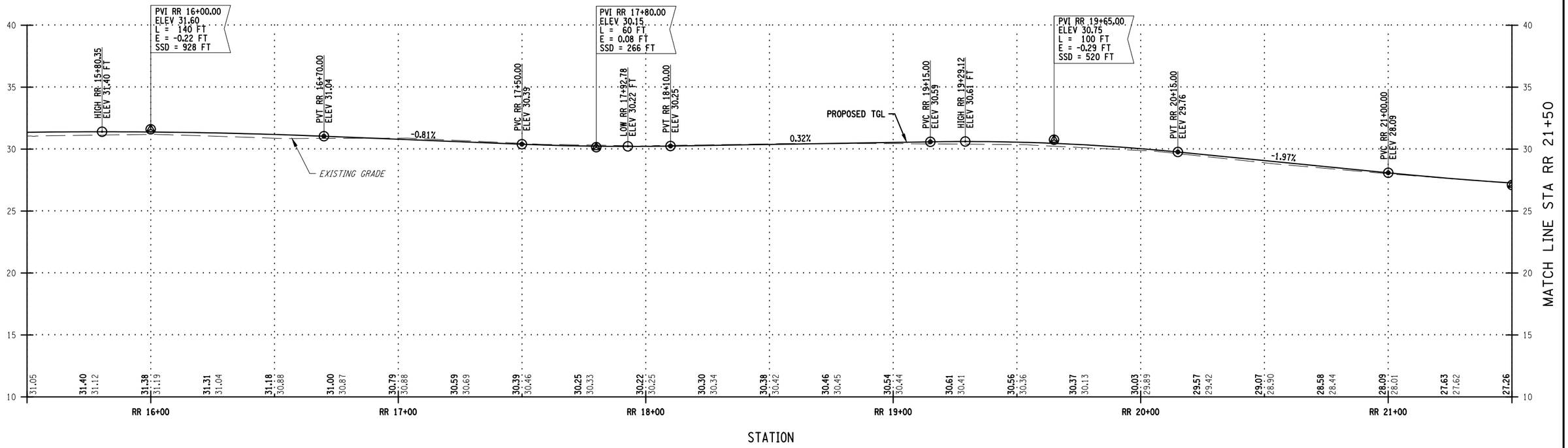
RECONSTRUCTION OF RIVER ROAD
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COUNTY OF ROCKLAND

PROFILE
STA RR 10+00 TO STA RR 15+50

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		DWG No.: PRO-01		SHEET 40 of 104

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20 0 20 40Ft.
20'

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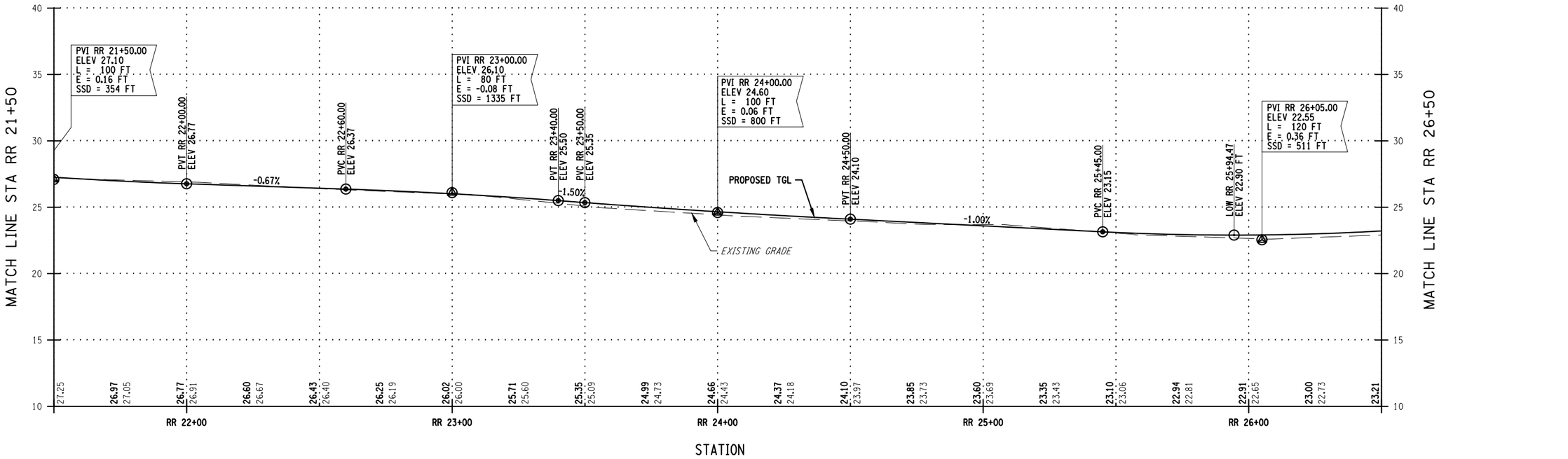
ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

PROFILE
STA RR 15+50 TO STA RR 21+50

AS-BUILT REVISIONS	DATE

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DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: PRO-02		SHEET 41 of 104



20 0 20 40Ft.
20'

ROCKLAND COUNTY HIGHWAY DEPARTMENT

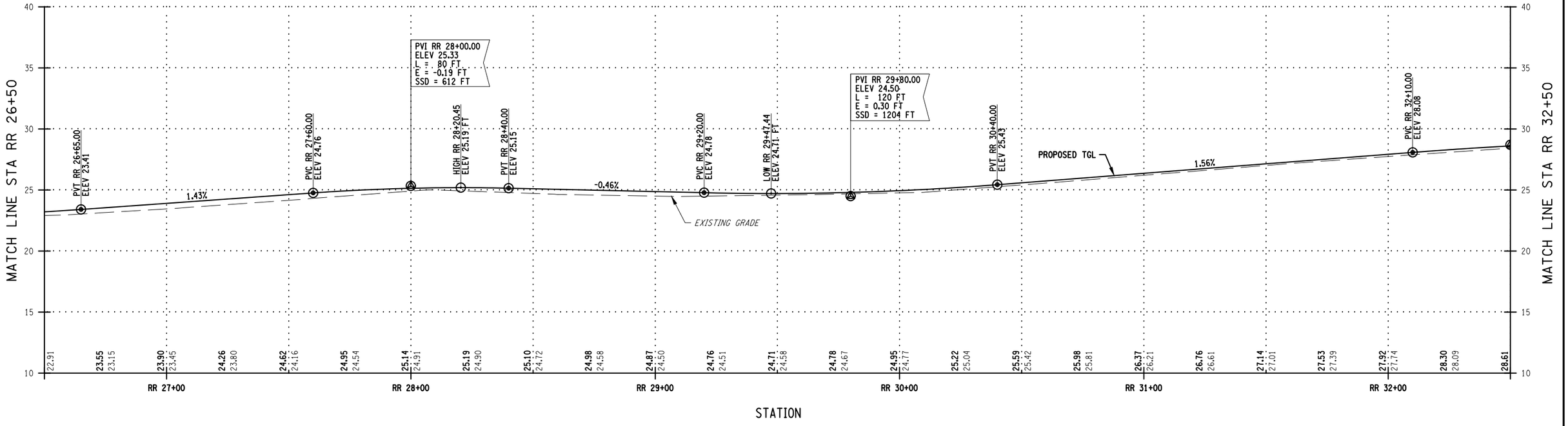
RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

PROFILE
STA RR 21+50 TO STA RR 26+50

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		DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
		DWG No.: PRO-03		SHEET 42 of 104

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ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

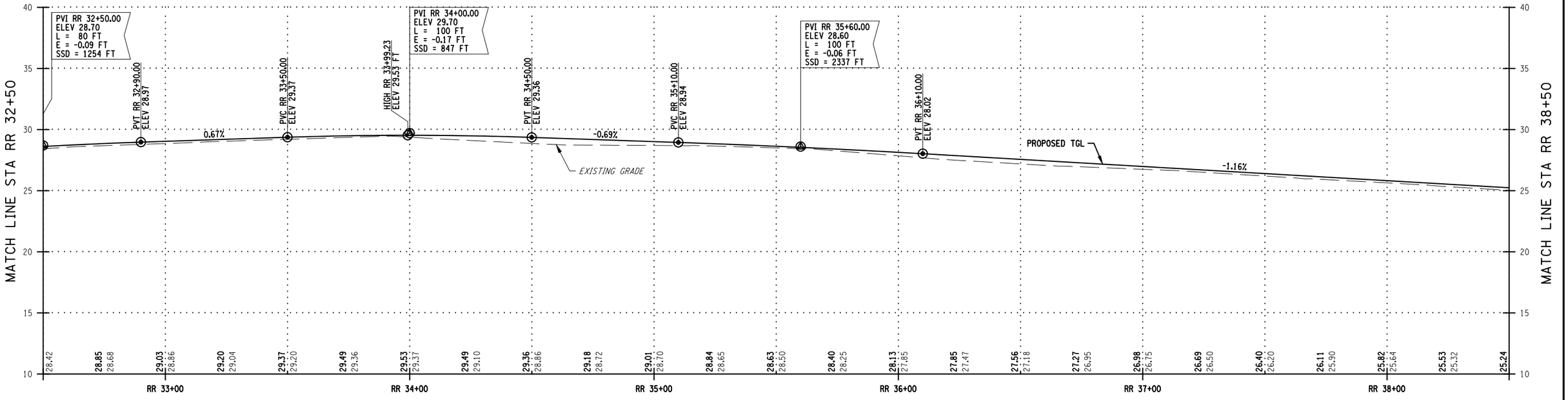
PROFILE
STA RR 26+50 TO STA RR 32+50

C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com

AS-BUILT REVISIONS	DATE		
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		DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
		DWG No.: PRO-04		SHEET 43 of 104

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20'

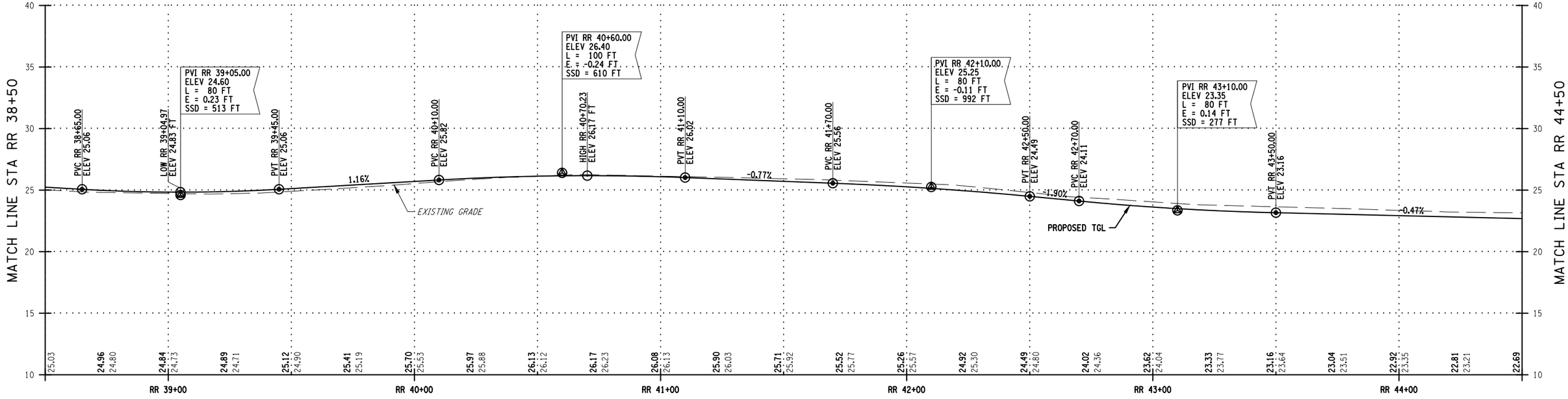
ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

PROFILE
STA RR 32+50 TO STA RR 38+50

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499 Col. Eileen Collins Blvd.
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AS-BUILT REVISIONS	DATE		
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ROCKLAND COUNTY HIGHWAY DEPARTMENT

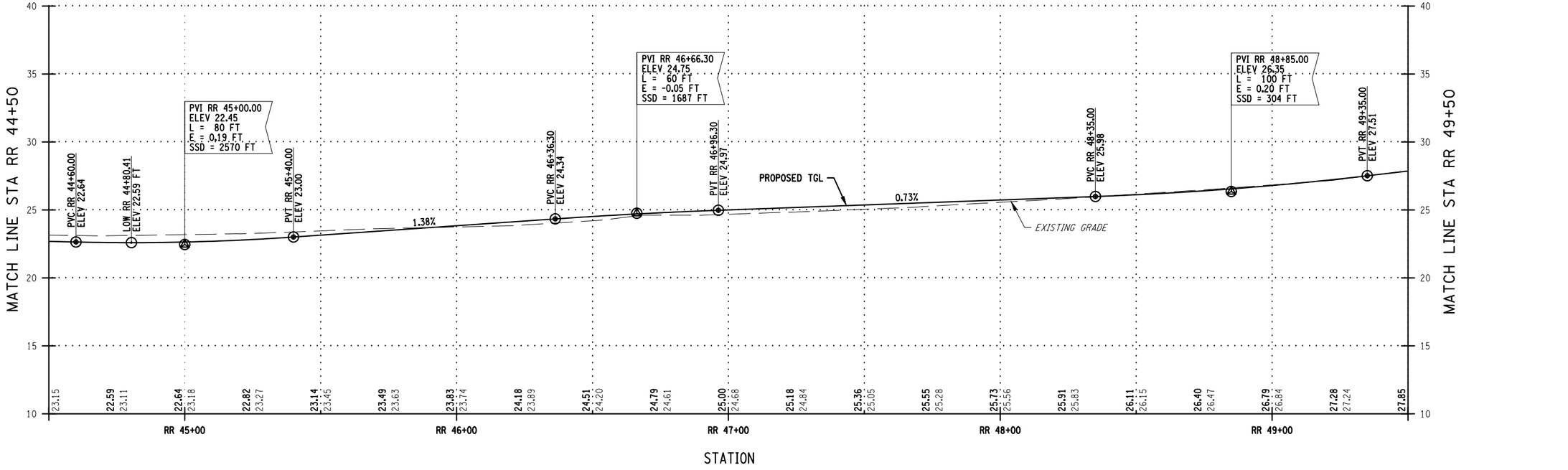
RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

PROFILE
STA RR 38+50 TO STA RR 44+50

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AS-BUILT REVISIONS	DATE		
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		DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
		DWG No.: PRO-06		SHEET 45 of 104

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20 0 20 40Ft.
20'

ROCKLAND COUNTY HIGHWAY DEPARTMENT

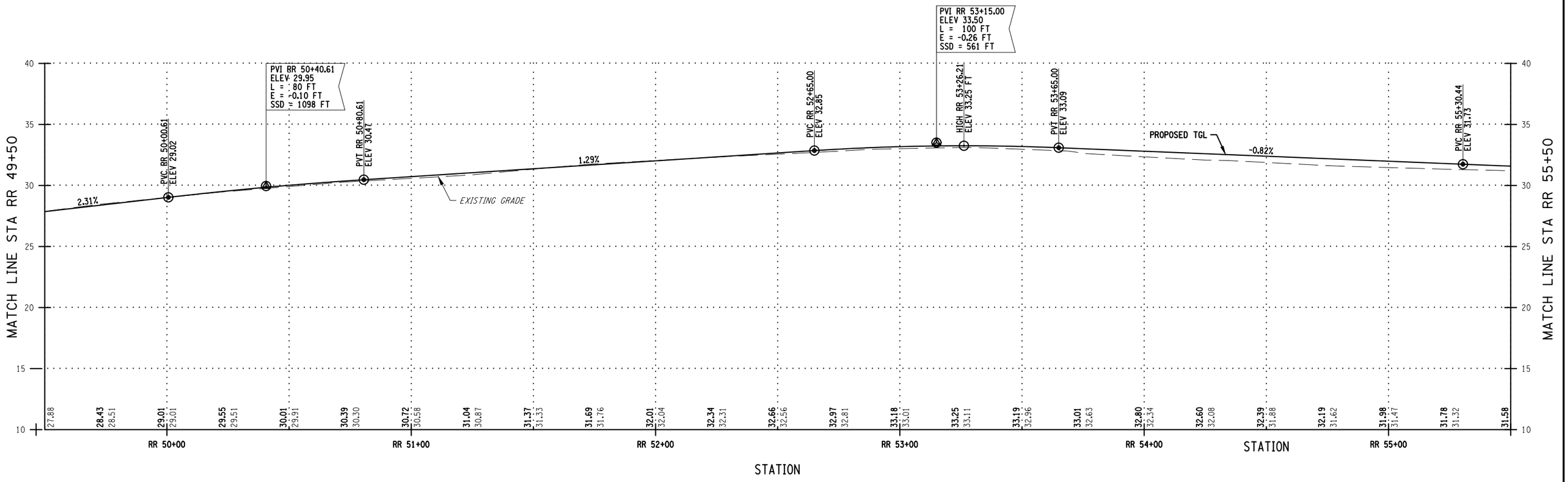
RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

PROFILE
STA RR 44+50 TO STA RR 49+50

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AS-BUILT REVISIONS	DATE		
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		DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
		DWG No.: PRO-07		SHEET 46 of 104

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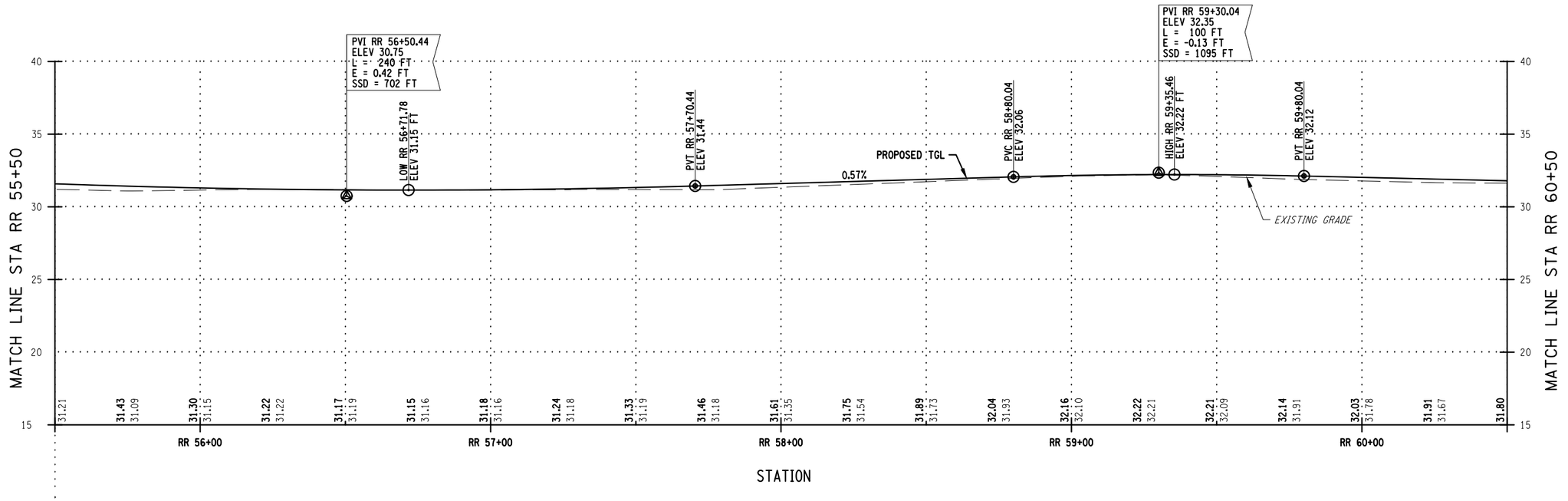
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ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

PROFILE
STA RR 49+50 TO STA RR 55+50

AS-BUILT REVISIONS	DATE			
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		DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
		DWG No.: PRO-08		SHEET 47 of 104



20 0 20 40Ft.
20'

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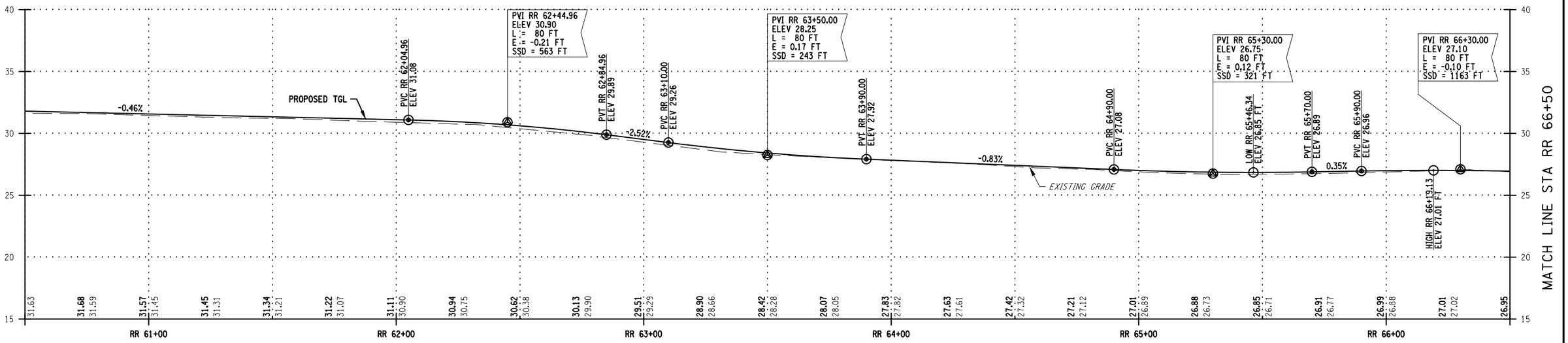
ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

PROFILE
STA RR 55+50 TO STA RR 60+50

AS-BUILT REVISIONS	DATE			
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		DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
		DWG No.: PRO-09		SHEET 48 of 104

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ROCKLAND COUNTY HIGHWAY DEPARTMENT

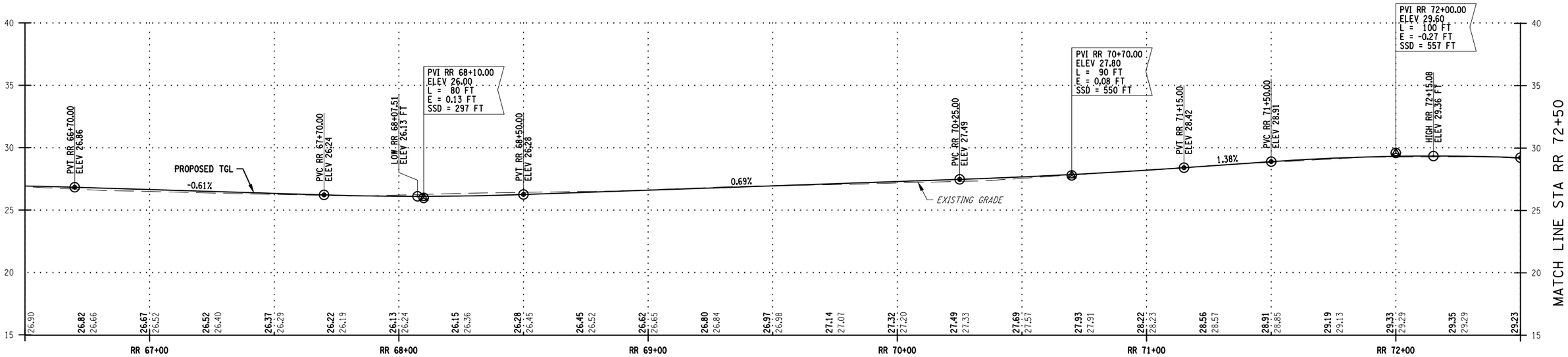
RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE

TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

PROFILE
STA RR 60+50 TO STA RR 66+50

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		DESIGNED BY: JPG	DRAWN BY: JPG	CHECKED BY: JFM
		DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
		DWG No.: PRO-10		SHEET 49 of 104



20 0 20 40Ft.
20'

ROCKLAND COUNTY HIGHWAY DEPARTMENT

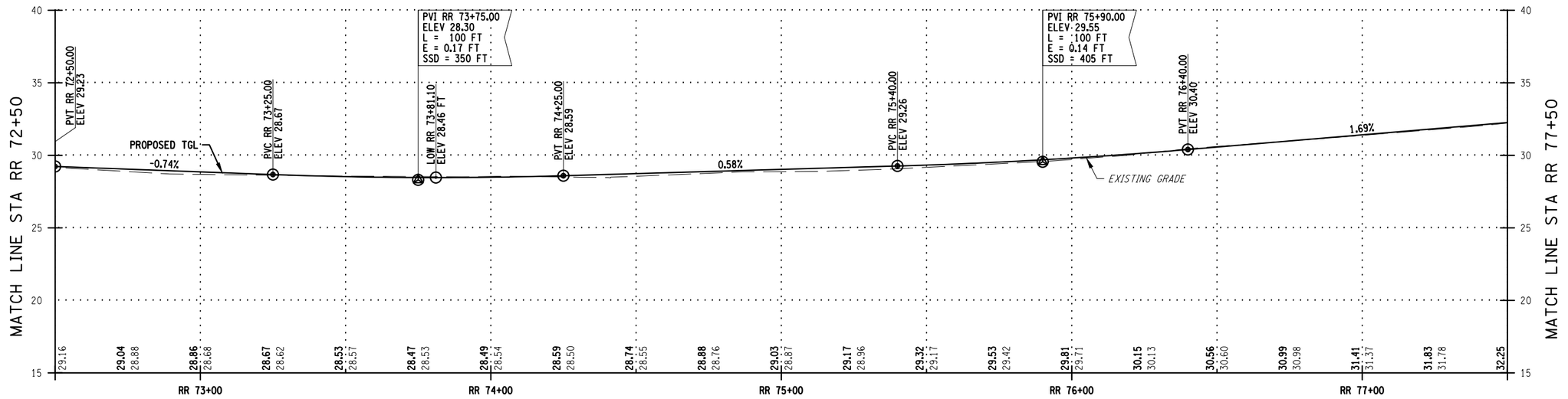
RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

PROFILE
STA RR 66+50 TO STA RR 72+50

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AS-BUILT REVISIONS	DATE		
		DESIGNED BY: JPG	DRAWN BY: JPG	CHECKED BY: JFM
		DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
		DWG No.: PRO-11		SHEET 50 of 104

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STATION

20 0 20 40Ft.
20'

ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE

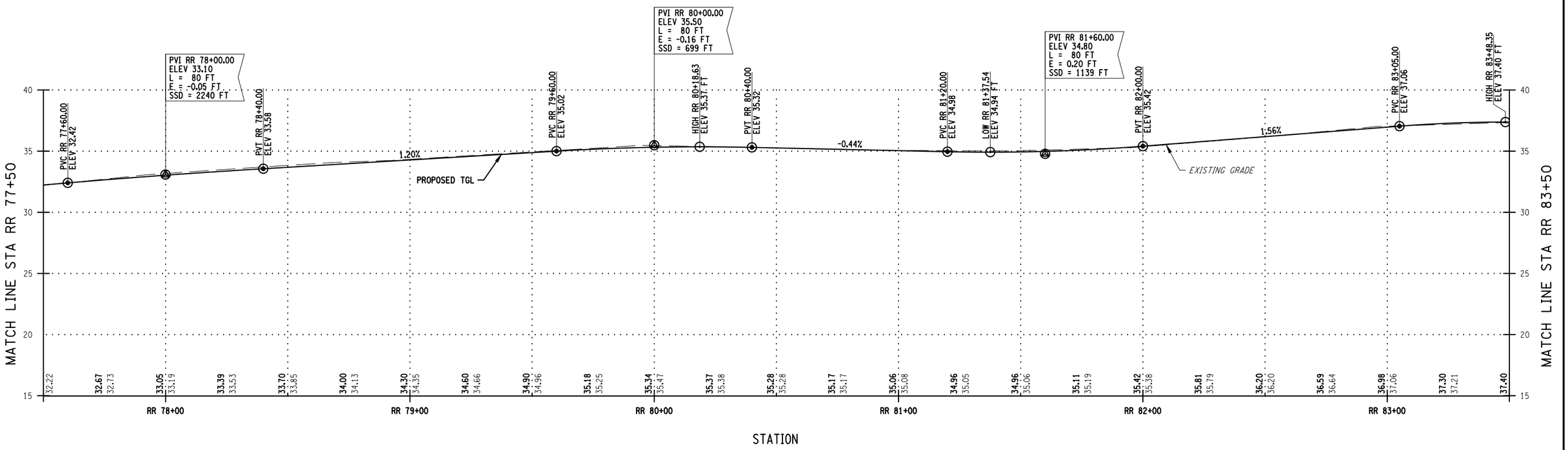
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

PROFILE
STA RR 72+50 TO STA RR 77+50

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499 Col. Eileen Collins Blvd.
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AS-BUILT REVISIONS	DATE			
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		DWG No.: PRO-12		SHEET 51 of 104

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STATION

20 0 20 40Ft.
20'

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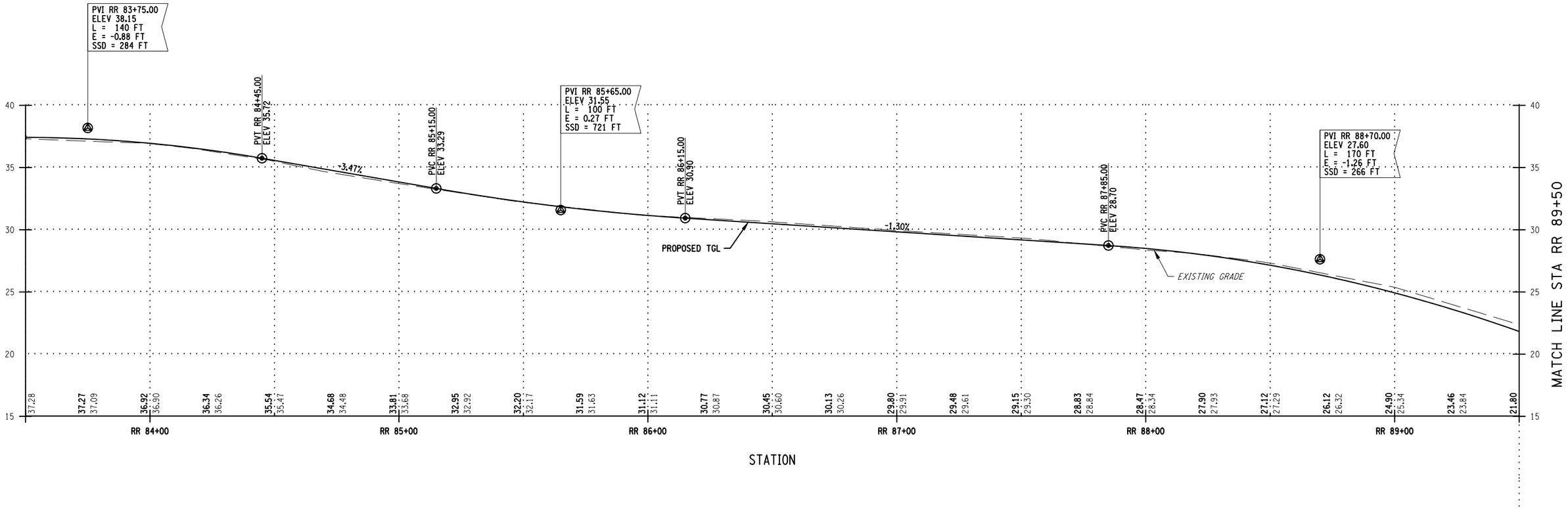
ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

PROFILE
STA RR 77+50 TO STA RR 83+50

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Fax: 315-455-9667
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AS-BUILT REVISIONS	DATE			
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		DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
		DWG No.: PRO-13		SHEET 52 of 104



ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE

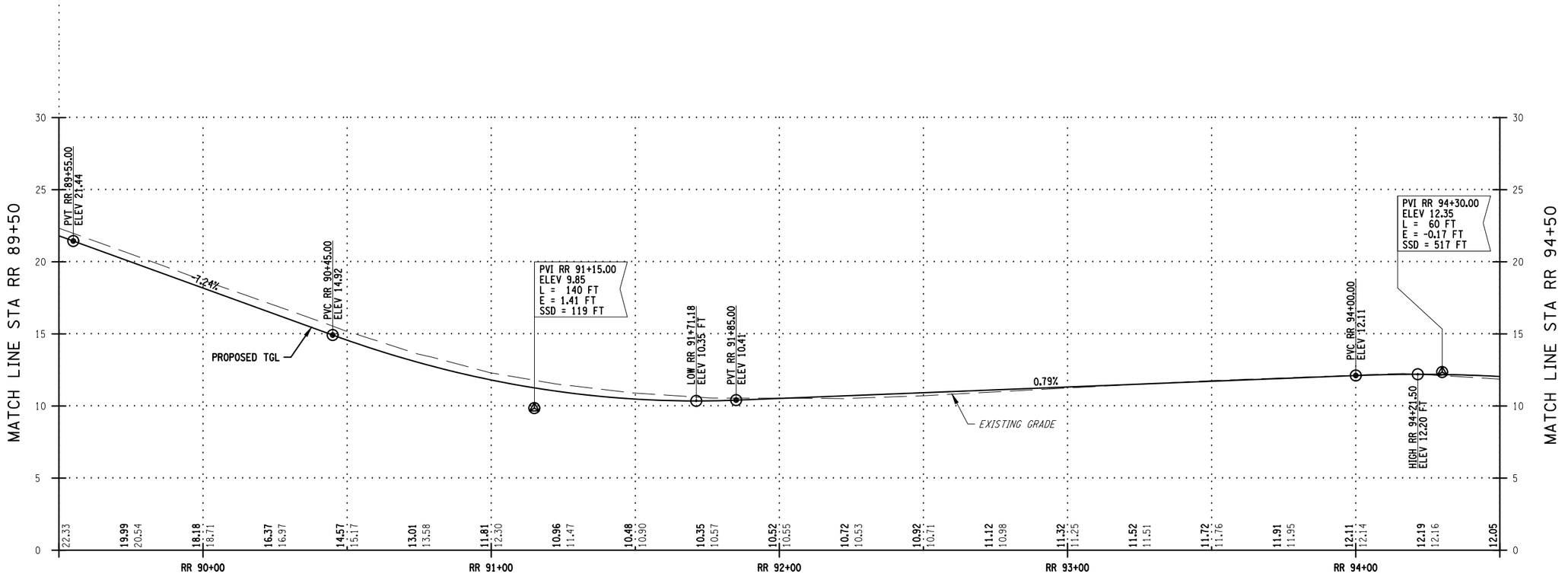
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

PROFILE
STA RR 83+50 TO STA RR 89+50

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499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
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AS-BUILT REVISIONS	DATE		
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		DWG No.: PRO-14		SHEET 53 of 104

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20'

ROCKLAND COUNTY HIGHWAY DEPARTMENT

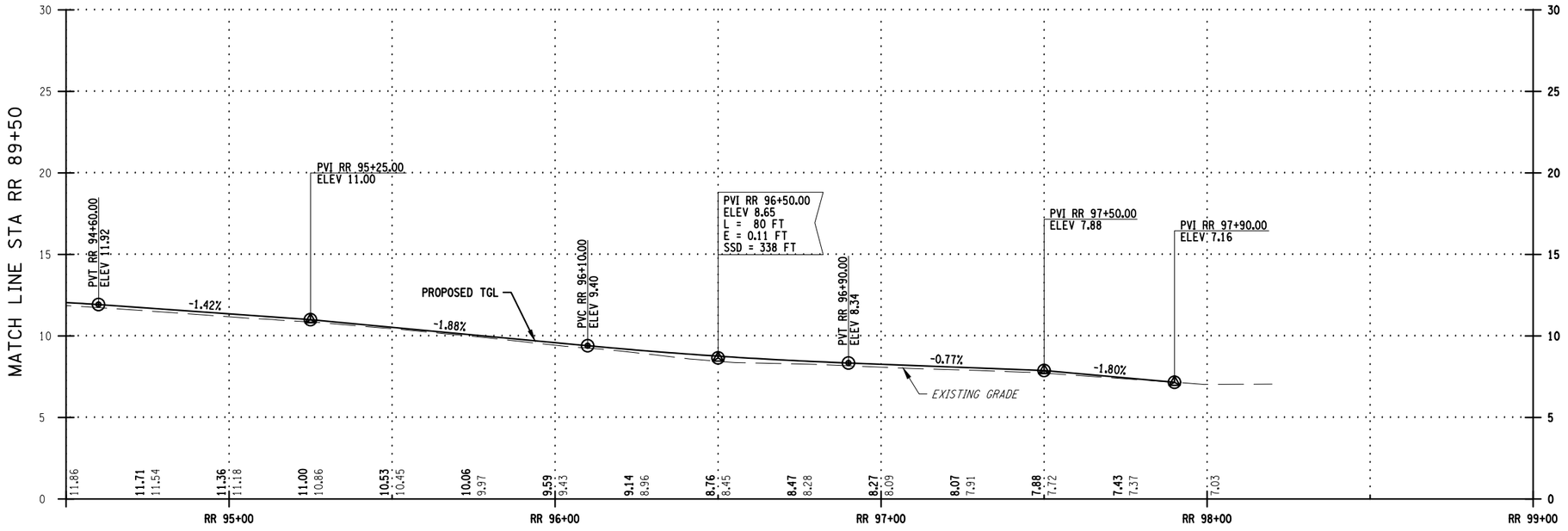
RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

PROFILE
STA RR 89+50 TO STA RR 94+50

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AS-BUILT REVISIONS	DATE			
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		DWG No.: PRO-15		SHEET 54 of 104

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20 0 20 40Ft.
20'

ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

PROFILE
STA RR 94+50 TO STA RR 97+90

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AS-BUILT REVISIONS	DATE		
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		DWG No.: PRO-16		SHEET 55 of 104

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STEVENSON STREET

RIVER ROAD (C.R.-1)

MATCH LINE STA RR 15+50

LANDS N/F
CHRISTOPHER MARLENE SANDERS
INST. ID # 1996-9675
TAX ID 75.22-2-4

LANDS N/F
JORDAN BARILE & LISA DEFECIANI
L. 14 P. 828
TAX ID 75.22-2-3

LANDS N/F
CAITLYN GALLUCCI
2016-12700
TAX ID 75.22-1-11

LANDS N/F
JOHN & MURIEL BUDROCK
L. 780 P. 1059
TAX ID 75.22-1-12

LANDS N/F
JULES & LILA WEINBERG
TAX ID 75.22-1-13

LANDS N/F
SUSAN D BERKE
TAX ID 75.22-1-14

HOUSE #898 (NRE)
HOUSE #311
HOUSE #309
HOUSE #307 (NRE)
HOUSE #302

M104 P104 PE
M103 P103 PE
M102 P102 PE
M101 P101 PE

DS 1-1
DS 1-2
DS 1-3
DS 1-4
DS 1-5
DS 1-6
DS 1-7
DS 1-8
DS 1-9
DS 1-10
DS 1-1A

ITEM 604.070801
ADJUST MANHOLE

ITEM
603.99050002 - 2 EA

ITEM
603.99050002

ITEM 603.99050002
CONCRETE PIPE
PLUG - 2 EA (TYP.)

SAINT JOHN'S CHURCH # 895

LANDS N/F
ST. JOHN'S R.C. CHURCH
L. 279 P. 361
TAX ID 75.22-2-13

LANDS N/F
DIANNE LICATA
L. 736 P.5224
TAX ID 75.22-1-6

LANDS N/F
ROBERT & MARLENE KLEINER
TAX ID 75.22-1-7

LANDS N/F
MATHEW D. DONN & TARA A. DONN
INST. ID # 2005-26506 TAX ID 75.22-1-5

VILLAGE OF PIERMONT

VILLAGE OF GRAND VIEW-ON-HUDSON

RR 10+00 · RR 11+00 · RR 12+00 · RR 13+00 · RR 14+00 · RR 15+00

20' 20 0 20 40Ft.

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499 Col. Eileen Collins Blvd.
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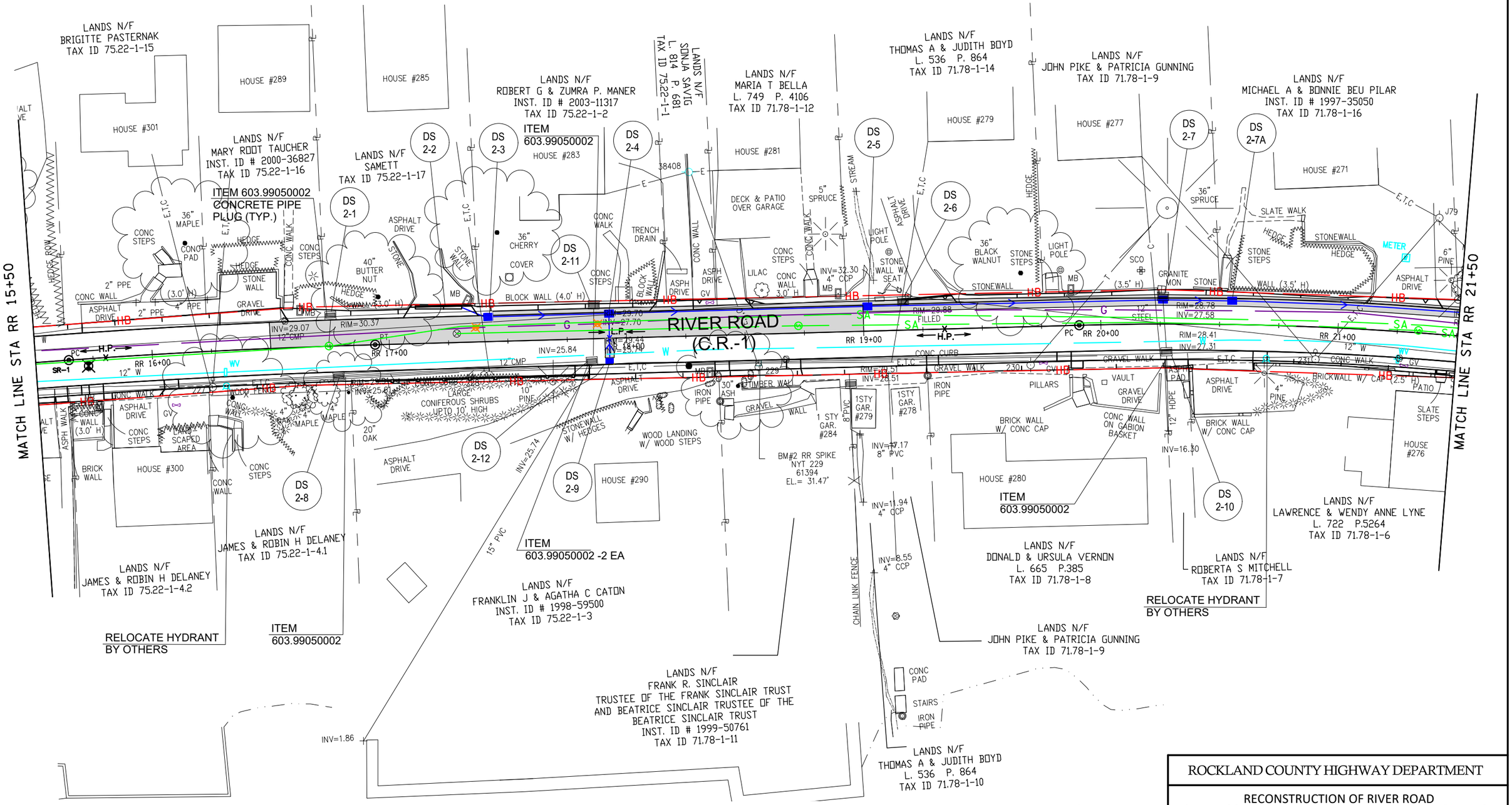
ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

DRAINAGE PLAN
STA RR 10+00 TO STA RR 15+50

AS-BUILT REVISIONS	DATE

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: DRN-01		SHEET 56 of 104



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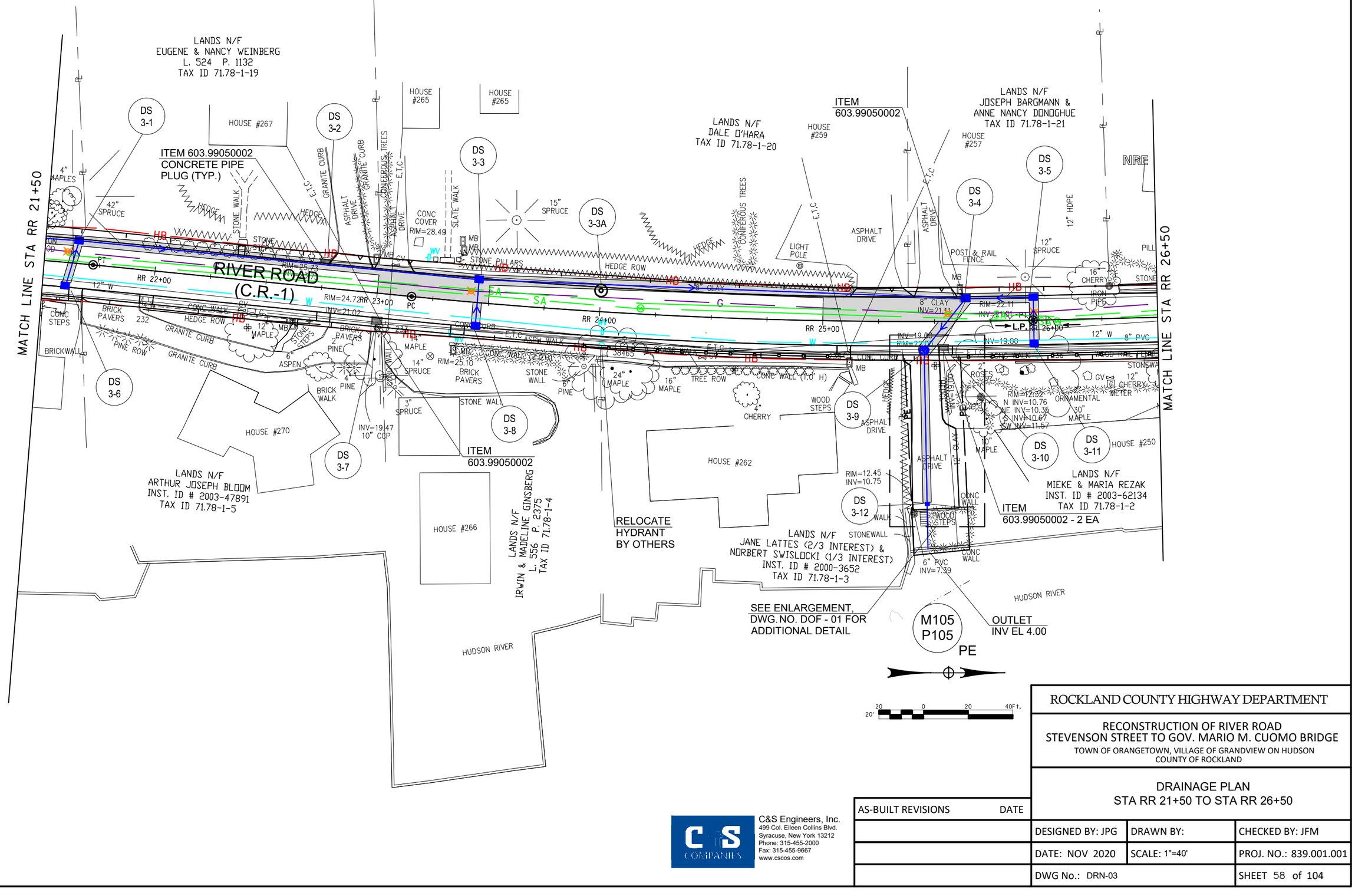
ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

DRAINAGE PLAN
STA RR 15+50 TO STA RR 21+50

AS-BUILT REVISIONS	DATE

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: DRN-02		SHEET 57 of 104



ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

DRAINAGE PLAN
STA RR 21+50 TO STA RR 26+50

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AS-BUILT REVISIONS	DATE		
		DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
		DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
		DWG No.: DRN-03		SHEET 58 of 104

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MATCH LINE STA RR 26+50

LANDS N/F
JOHN M & BARBARA KEIL
INST. ID # 1997-20087
TAX ID 71.78-1-1

LANDS N/F
WILLIAM M. & ELIZABETH A. HART
INST. ID # 2003-57892
TAX ID 71.70-1-9.1

LANDS N/F
FRANK & CYNTHIA RAPHAEL
INST. ID # 1999-45340
TAX ID 71.70-1-9.2

LANDS N/F
JOSEPH R. MORLEY & HEATHER M. WINTERS
INST. ID # 2002-20665
TAX ID 71.70-1-10

LANDS N/F
MARY POST & EUGENE POLINSKY
L. 433 P. 1891
TAX ID 71.70-1-11

HOUSE #225
HOUSE #237
HOUSE #243
HOUSE #251
HOUSE #245
HOUSE #242
HOUSE #230
HOUSE #224

DS 4-1A
DS 4-1B
DS 4-1C
DS 4-1
DS 4-2
DS 4-3
DS 4-3A
DS 4-4
DS 4-5
DS 4-6
DS 4-7
DS 4-8
DS 4-9
DS 4-10
DS 4-11
DS 4-12
DS 4-13
DS 4-14

M107
P107
PE

M106
P106
PE

RIVER ROAD
(C.R.-1)

MINOR SUBDIVISION
ROBIN WINKLER
8/1995

DESIGNATED STREET
LINE (50' R.O.W.)

HART BARHYDT RESIDENCE
10/27/03

ITEM 603.99050002
CONCRETE PIPE
PLUG (TYP.)

LANDS N/F
NIELS OSTBYE
L. 501 P. 1768
TAX ID 71.70-1-8

LANDS N/F
DORIS BUXBAUM TRUST
2006-35390

LANDS N/F
CHLOE ANTHONY MORRISON
L. 1030 P. 273
TAX ID 71.70-1-6

ITEM
603.99050002

RELOCATE HYDRANT
BY OTHERS

RELOCATE HYDRANT
BY OTHERS

EDGE OF TIDAL WATERS

SEE ENLARGEMENT, DWG DOF-02
FOR ADDITIONAL DETAIL

MATCH LINE STA RR 32+50

20' 0 20 40Ft.

ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

DRAINAGE PLAN
STA RR 26+50 TO STA RR 32+50

AS-BUILT REVISIONS	DATE

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: DRN-04		SHEET 59 of 104

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499 Col. Eileen Collins Blvd.
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Fax: 315-455-9667
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HOUSE #215
(BACKLOT)

LANDS N/F
ROBERT J & ELLEN D PALUCK
L. 1032 P. 482
TAX ID 71.62-1-13

RE-CONNECT
EXISTING 6" RCP

HOUSE #223

LANDS N/F
DAVID SANDERS & WILLIAM MCGIVNEY
L. 673 P. 1944
TAX ID 71.70-1-12

HOUSE #221

HOUSE #217

LANDS N/F
MERCEDES ROSS
INST. ID # 2001-44463
TAX ID 71.70-1-13

LANDS N/F
DAVID & JILL KALIFF
TAX ID 71.70-1-1

HOUSE #215

HOUSE #205

ITEM
603.99050002

ITEM
603.99050002

RIVER ROAD
(C.R.-1)

MATCH LINE STA RR 32+50

MATCH LINE STA RR 38+50

RELOCATE EXISTING
WATERLINE BY OTHERS

RELOCATE HYDRANT
BY OTHERS

ITEM 603.99050002
CONCRETE PIPE
PLUG (TYP.)

LANDS N/F
MERCEDES ROSS
INST. ID # 2001-44478
TAX ID 71.70-1-3

LANDS N/F
DAVID SANDERS & WILLIAM MCGIVNEY
TAX ID 71.70-1-4

LANDS N/F
DAVID & JILL KALIFF
TAX ID 71.70-1-1

LANDS N/F
MEGAN G COLWELL, DOUGLAS T COLWELL,
COLIN B COLWELL & JOSHUA L COLWELL
INST ID # 2005-55177
TAX ID 71.62-1-12

LANDS N/F
MARY POST & EUGENE POLINSKY
L. 433 P. 1896
TAX ID 71.70-1-5

20' 0 20 40Ft.

AS-BUILT REVISIONS	DATE

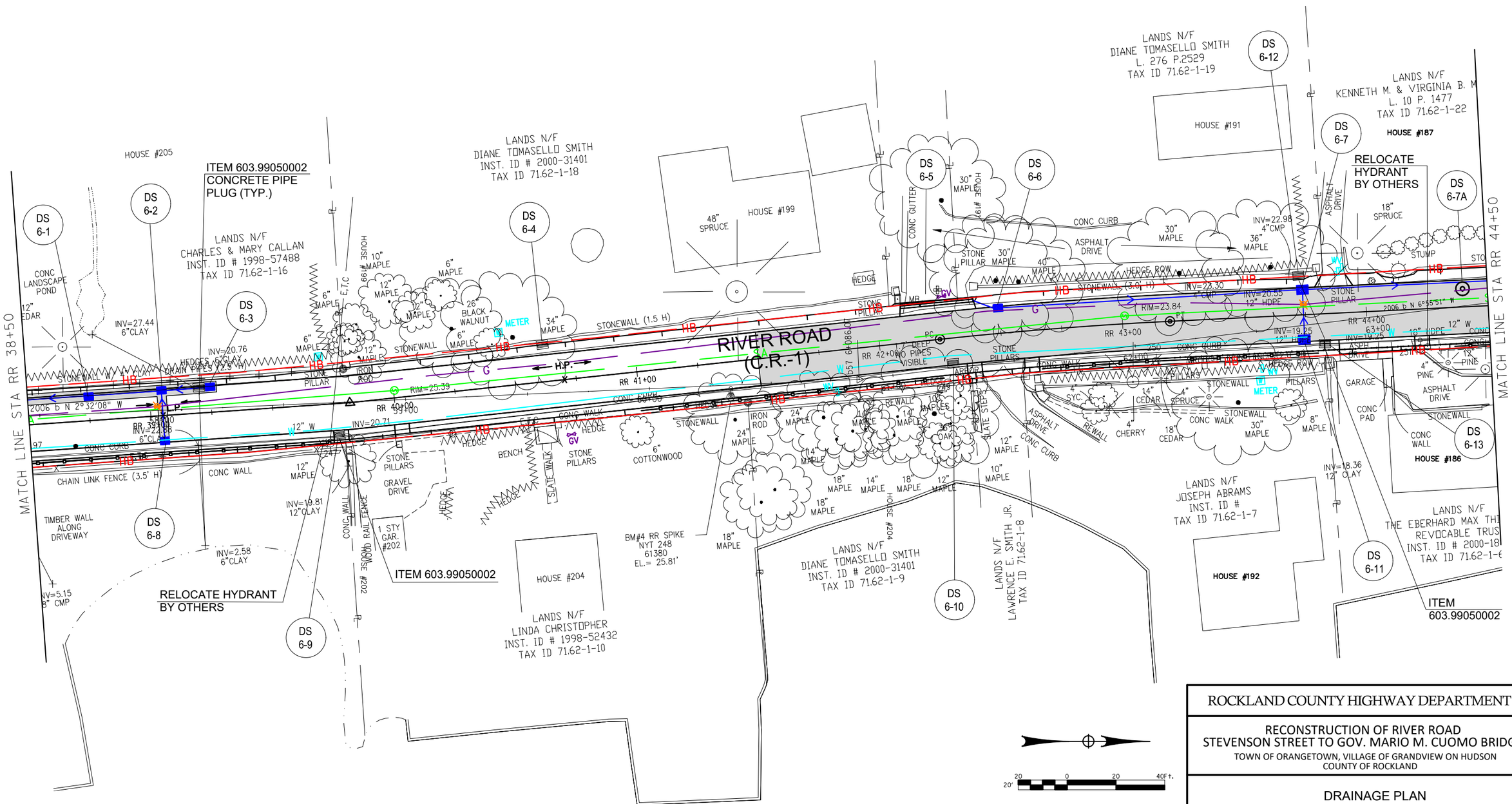
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ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

DRAINAGE PLAN
STA RR 32+50 TO STA RR 38+50

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: DRN-05		SHEET 60 of 104



20' 20 0 20 40Ft.

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ROCKLAND COUNTY HIGHWAY DEPARTMENT

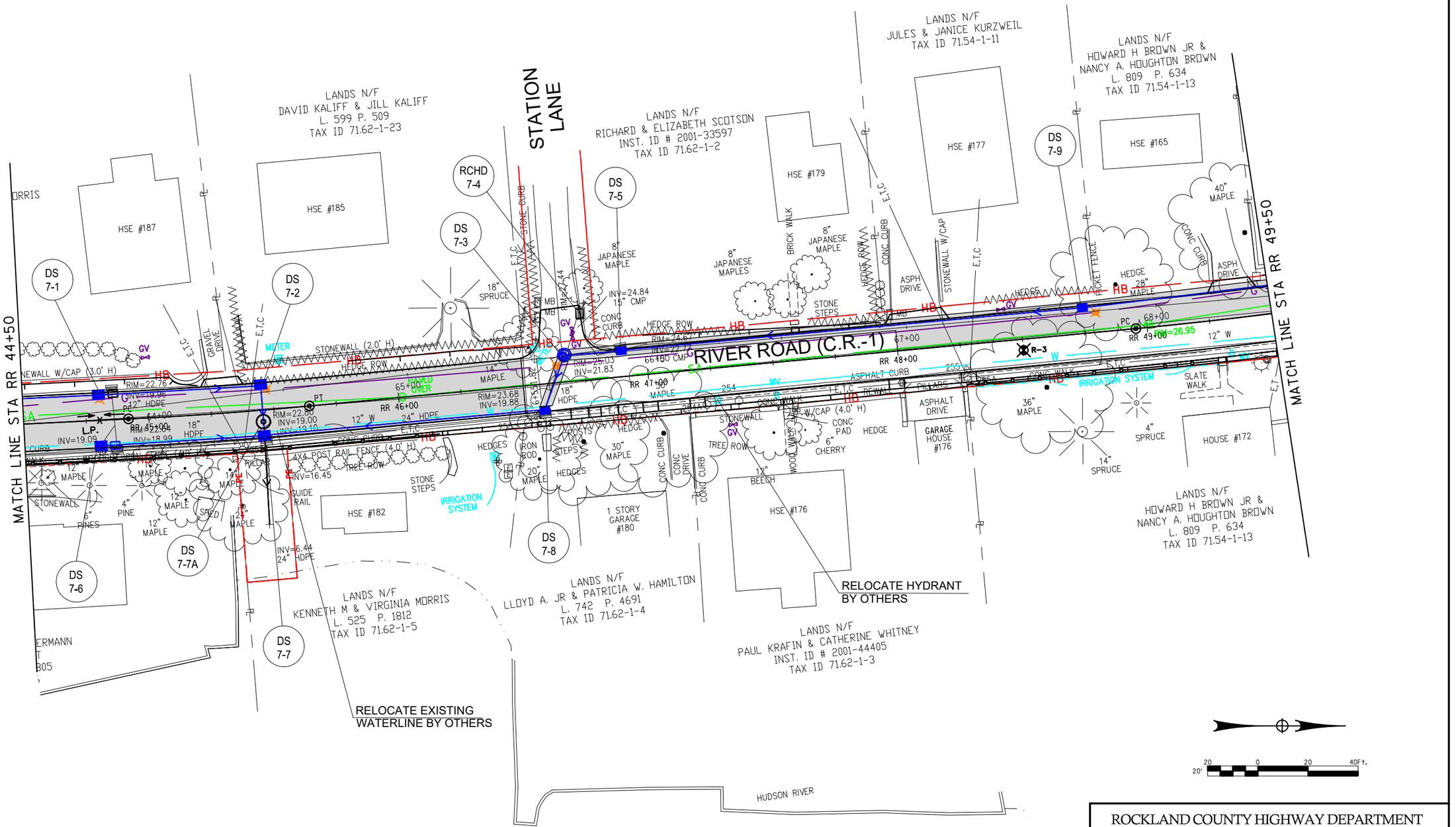
RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

DRAINAGE PLAN
STA RR 38+50 TO STA RR 44+50

AS-BUILT REVISIONS	DATE

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: DRN-06		SHEET 61 of 104

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ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

DRAINAGE PLAN
STA RR 44+50 TO STA RR 49+50

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: DRN-07		SHEET 62 of 104

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ITEM 603.99050002
CONCRETE PIPE
PLUG (TYP.)

LANDS N/F
MICHAEL SCHOEN & DIANE DIMOND
INST. ID # 1999-60276
TAX ID 71.54-1-15

LANDS N/F
SUSAN IURICA
INST. ID # 1998-62843
TAX ID 71.54-1-14

LANDS N/F
ANDREW HARNETT & JENNIFER HARNETT
INST. ID # 2004-70059
TAX ID 71.54-1-16

LANDS N/F
CATHY & CHARLES SPAGNA
TAX ID 71.54-1-18

HOUSE #161
HOUSE #159
HOUSE #151
HSE #163
HOUSE #160
HOUSE #162

DS 8-1
DS 8-1A
DS 8-2
DS 8-2A
DS 8-2B
DS 8-3
DS 8-3A
DS 8-4
DS 8-5

STA RR 49+50
MATCH LINE STA RR 55+50
MATCH LINE STA

RIVER ROAD (C.R.-1)
RR 50+00
RR 51+00
RR 52+00
RR 53+00
RR 54+00
RR 55+00

2006 D N 4°51'07" W
GRANITE MON
PT
PC
PT
PAVED OVER
RIM=29.71
INV=27.81
RIM=30.55
INV=24.65 RUNS UNDER HOUSE
INV=1.38 12" CLAY
RIM=32.81
H.P.
S-6
S-7
SR-8
P-6
P-7
COVER
G
GV
WV
MB
W
HB
SA
E.T.C
CONC CURB
CONC WALK
DIRT WALK
2X4 GUIDE RAIL FENCE (3.0' H)
CHAIN LINK FENCE (3.5' H)
CHAIN LINK (3.0' H)
ASPHALT DRIVE
CONC DRIVEWAY
STONE DRIVEWAY
STONEWALL (4.0' H)
STONEWALL (4.5' H)
STONE PILLAR
PILLAR
POST
IRON PIPE
IRON ROD
REWALL
HEDGE
PLANTINGS
14" SPRUCE
12" SPRUCE
30" MAPLE
6" CHERRY
4" CHERRY
2" JAPANESE MAPLE
24" MAPLE
12" MAPLE
18" MAPLES
14" OAK
8" OAK
18" OAK
18" MAPLE
WOOD STAIRS
WOOD DECK
ELECTRIC METER
END FENCE
CONC PAD
ALUMINUM DECK
BRICK WALL W
TREE ROW
CONC STEPS
IRRIGATION SYSTEM
BM#5 RR SPIKE
NYT260
61368
EL.=33.95'
EDGE OF WATER
HUDSON RIVER
RELOCATE HYDRANT BY OTHERS
RELOCATE HYDRANT BY OTHERS

LANDS N/F
JO-ELLEN PUTTER
L. 757 P. 4178
TAX ID 71.54-1-8

LANDS N/F
ANDREW HARNETT & JENNIFER HARNETT
INST. ID # 2004-70059 TAX ID 71.54-1-16

LANDS N/F
MICHAEL SCHOEN & DIANE DIMOND
INST. ID # 1999-60276
TAX ID 71.54-1-6

LANDS N/F
GEORGE & KATHERINE S MITCHELL
L. 810 P. 763
TAX ID 71.54-1-5

LANDS N/F
SUSAN IURICA, TRUSTEE
INST. ID # 1998-62845
TAX ID 71.54-1-9

20' 20 0 20 40Ft.

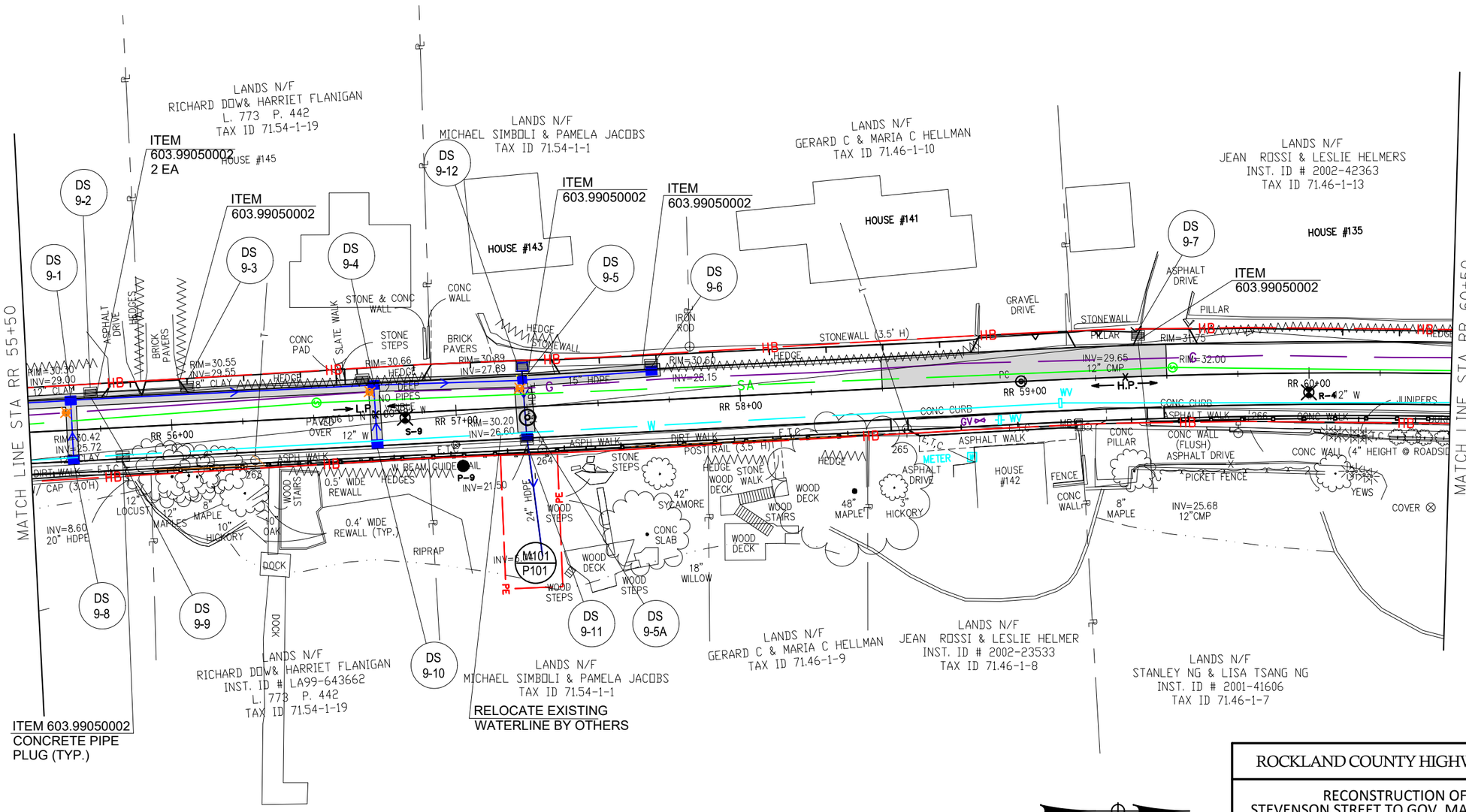
ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

DRAINAGE PLAN
STA RR 49+50 TO STA RR 55+50

C&S Engineers, Inc.
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AS-BUILT REVISIONS	DATE		
		DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
		DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
		DWG No.: DRN-08		SHEET 63 of 104



ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

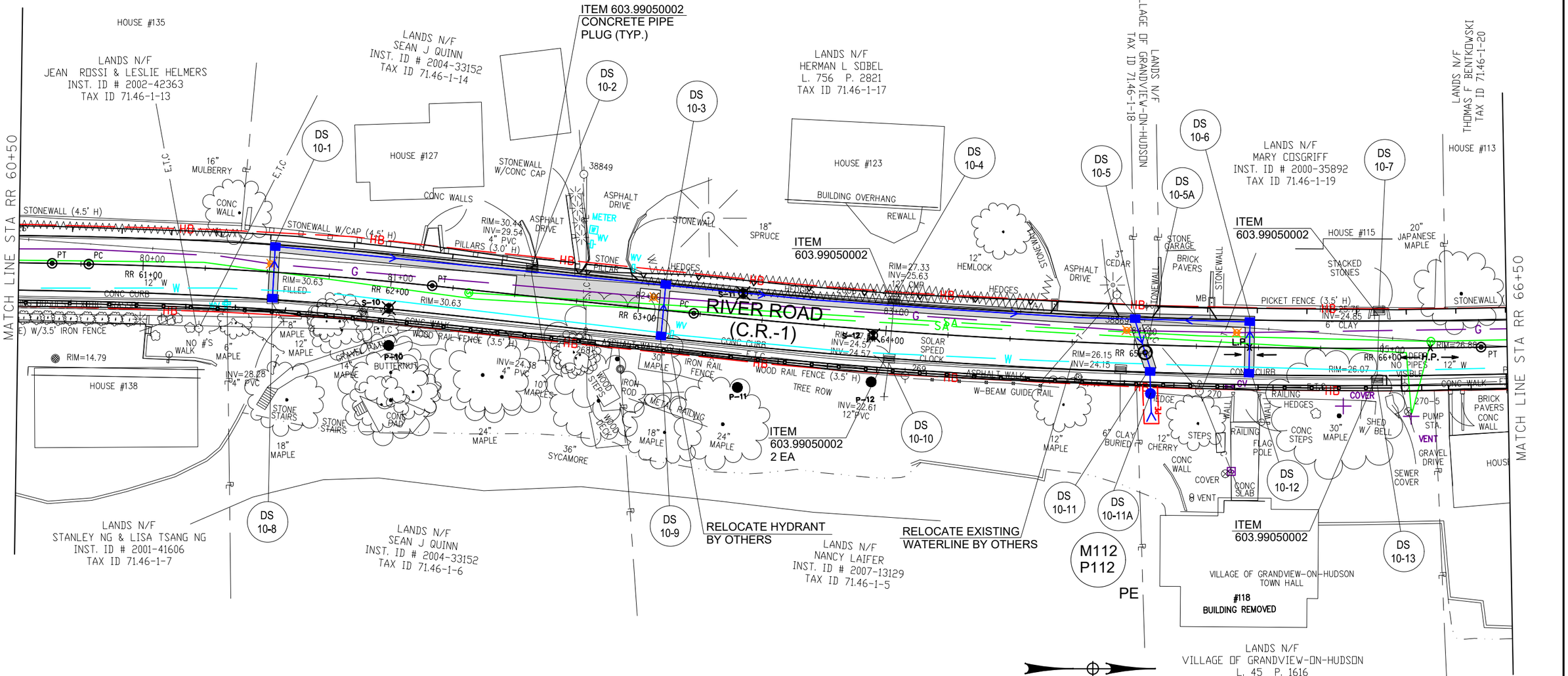
DRAINAGE PLAN
STA RR 55+50 TO STA RR 60+50

AS-BUILT REVISIONS	DATE

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: DRN-09		SHEET 64 of 104

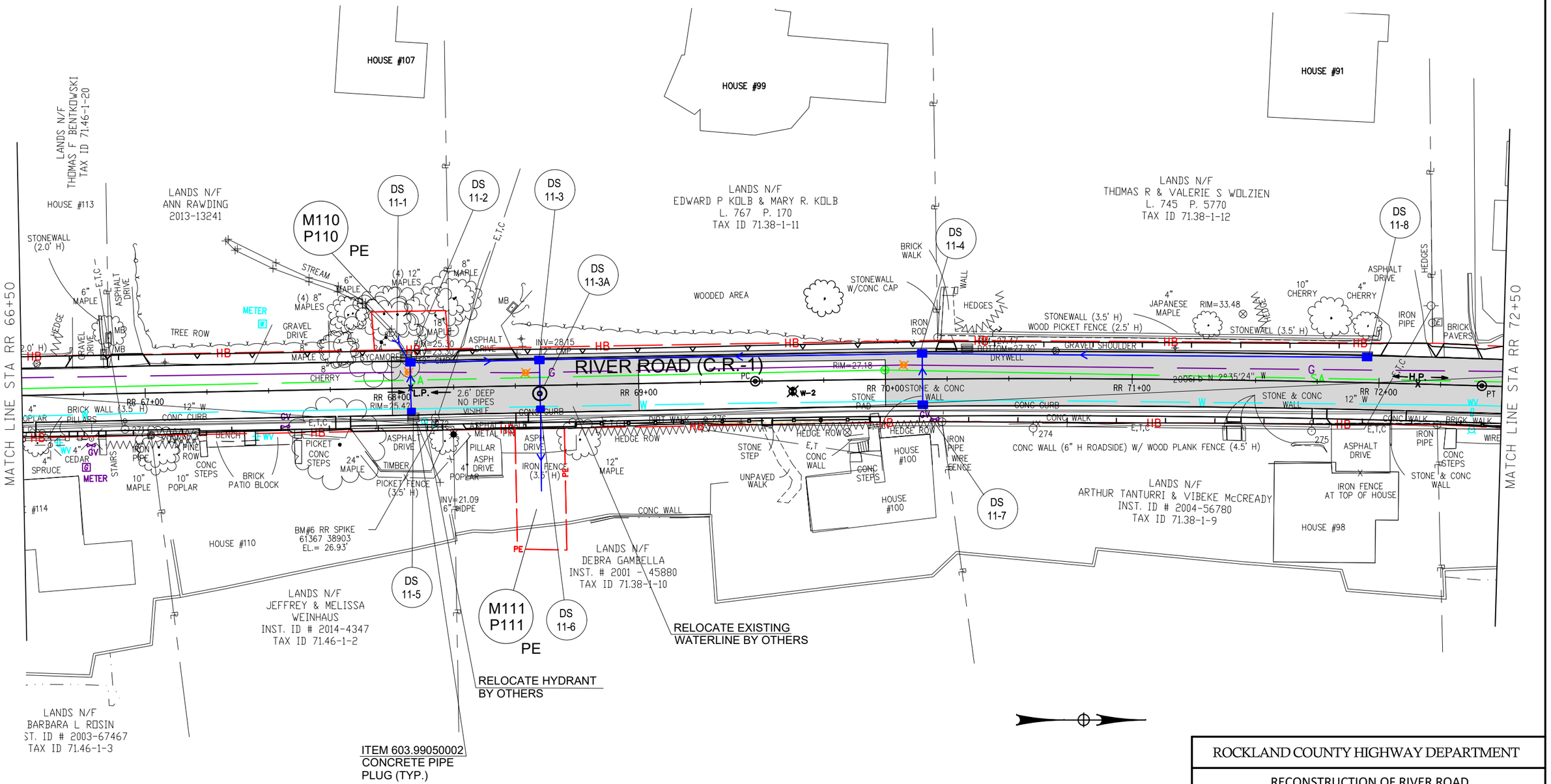
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20' 0 20 40Ft.

AS-BUILT REVISIONS	DATE

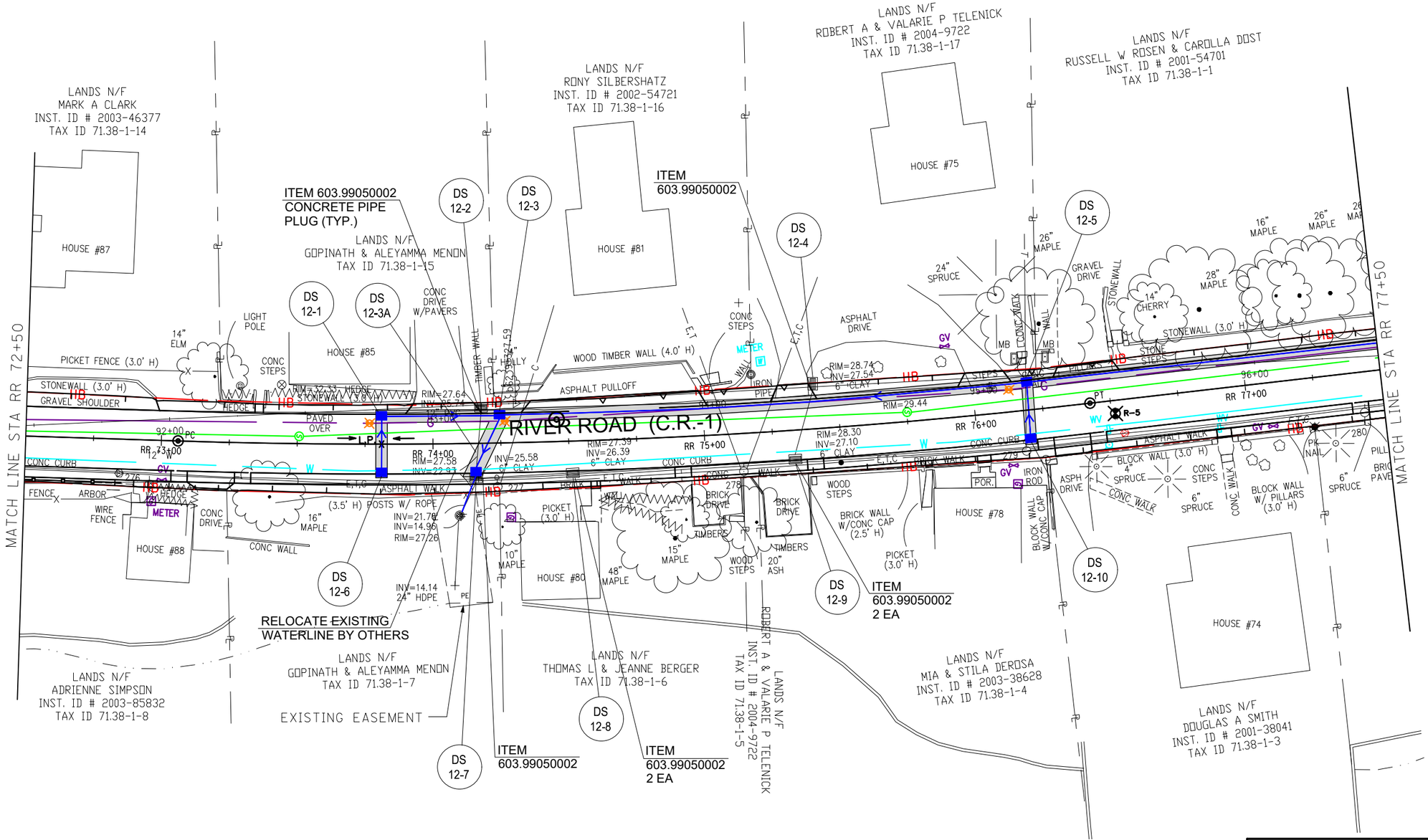
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ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

DRAINAGE PLAN
STA RR 66+50 TO STA RR 72+50

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: DRN-11		SHEET 66 of 104



ROCKLAND COUNTY HIGHWAY DEPARTMENT

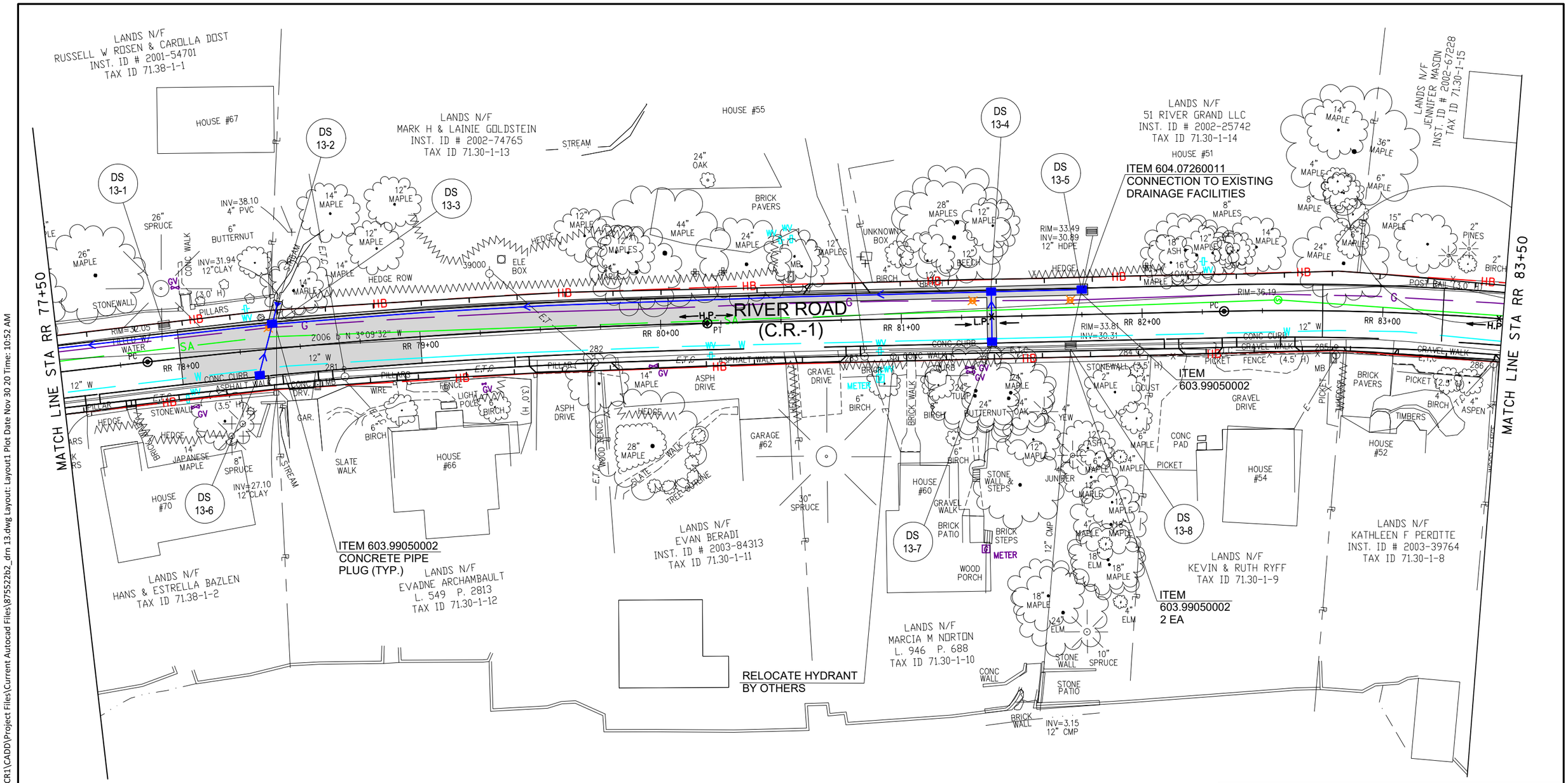
RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

DRAINAGE PLAN
STA RR 72+50 TO STA RR 77+50

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		DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
		DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
		DWG No.: DRN-12		SHEET 67 of 104

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20' 0 20 40Ft.

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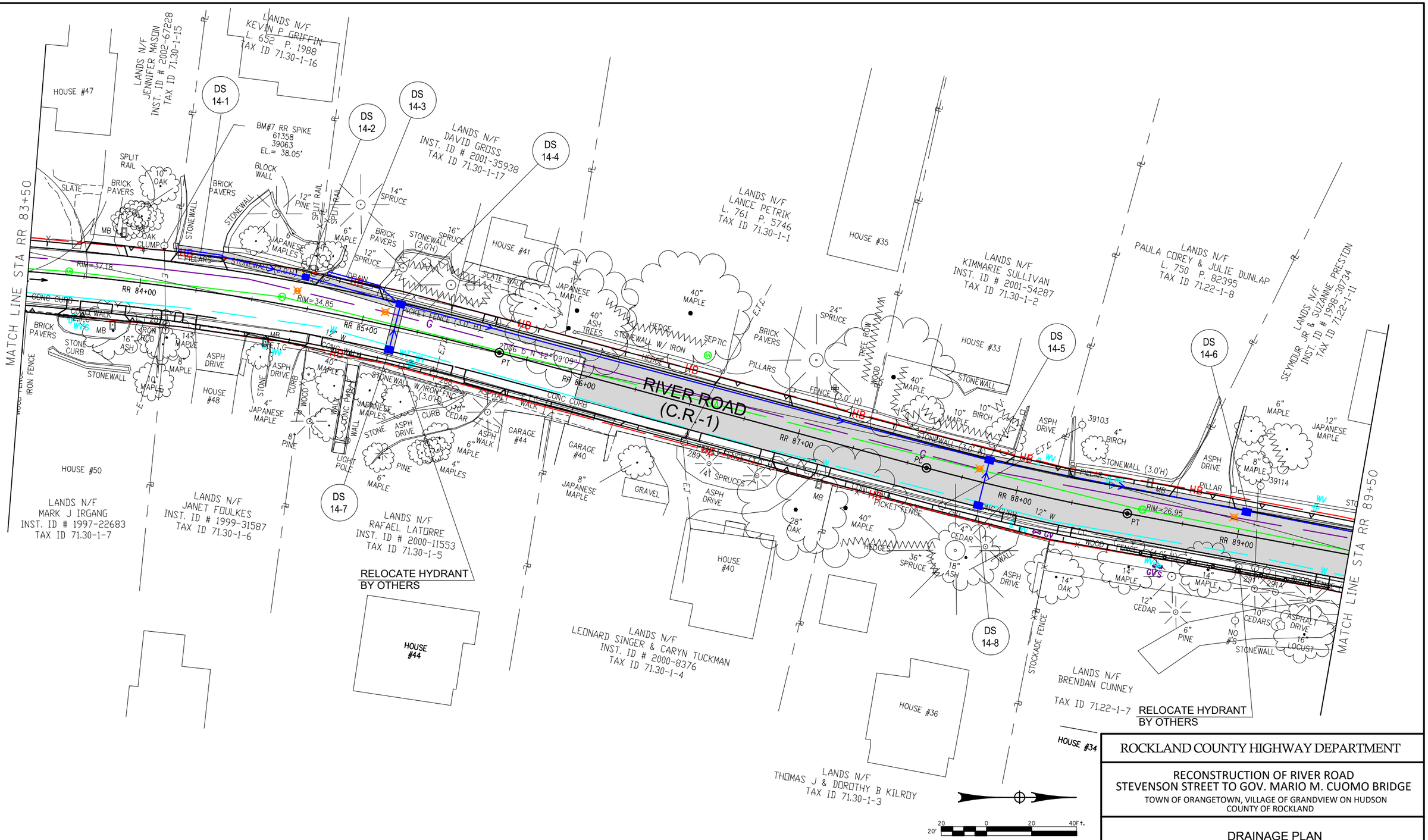
ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

DRAINAGE PLAN
STA RR 77+50 TO STA RR 83+50

AS-BUILT REVISIONS	DATE

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: DRN-13		SHEET 68 of 104



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ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

DRAINAGE PLAN
STA RR 83+50 TO STA RR 89+50

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AS-BUILT REVISIONS	DATE

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DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: DRN-14		SHEET 69 of 104

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RIVER ROAD (C.R.-1)

MATCH LINE STA RR 89+50

MATCH LINE STA RR 94+50

BIGHT LANE

LANDS N/F SEYMOUR JR & SUZANNE PRESTON INST. ID # 1998-30734 TAX ID 71.22-1-11

LANDS N/F JOHN F GEIST, JR L. 516 P. 163 TAX ID 71.22-1-12

LANDS N/F KEVIN B & JENETH KLEITZ INST. ID # 1997-20349 TAX ID 71.22-1-14

LANDS N/F FRANK J, JR & FRANCES PIAZZA TAX ID 71.22-1-15

LANDS N/F MARC CHALOM TAX ID 71.22-1-16

LANDS N/F KATHLEEN MOSDLIND & RACHAEL MACK INST. ID 2006-31381 TAX ID 71.22-1-6

LANDS N/F GEORGE M ZOEBELEIN TAX ID 71.22-1-5

LANDS N/F DONALD W ALBRIGHT, JR INST. ID # 1997-38212 TAX ID 71.22-1-4

LANDS N/F WILLIAM PERRY, JR INST. ID # 1997-38212 TAX ID 71.22-1-3

PEOPLE OF THE STATE OF NEW YORK

NYSDOT MAINT.

HOUSE #29 · HOUSE #25 · HOUSE #23 · HOUSE #21 · HOUSE #17 · HOUSE #24 · HOUSE #22 · GAR. #26

DS 15-1 · DS 15-2 · DS 15-3 · DS 15-1A · DS 15-4 · DS 15-5 · DS 15-6 · DS 15-7 · DS 15-8 · DS 15-9 · DS 15-10 · DS 15-11 · DS 15-12

ITEM 603.99050002
CONCRETE PIPE PLUG (TYP.)

ITEM 604.07260011
CONNECTION TO EXISTING DRAINAGE FACILITIES

ITEM 604.07260011
2 EA

HUDSON RIVER

20' 20 0 20 40Ft.

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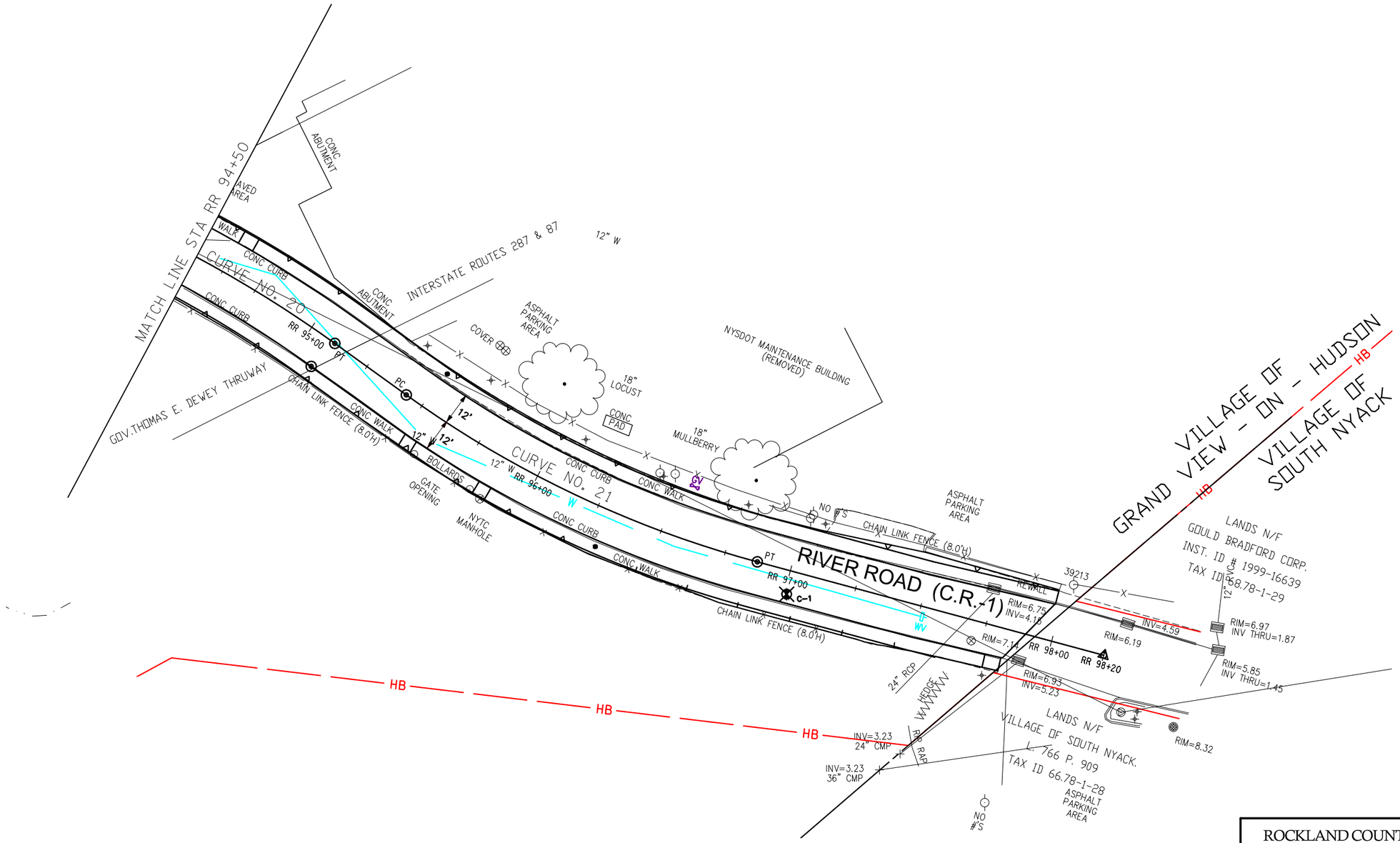
ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

DRAINAGE PLAN
STA RR 89+50 TO STA RR 94+50

AS-BUILT REVISIONS	DATE

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: DRN-15		SHEET 70 of 104



ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

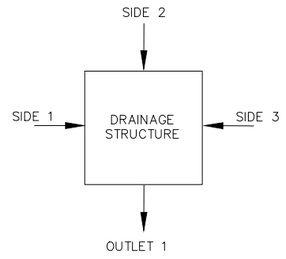
DRAINAGE PLAN
STA RR 94+50 TO STA RR 98+22

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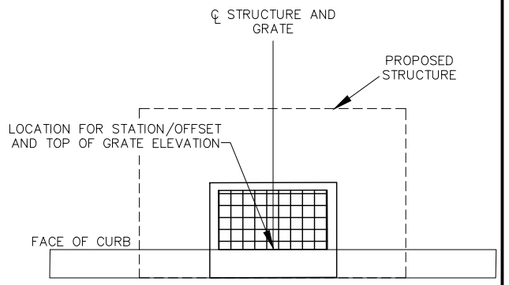
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		DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
		DWG No.: DRN-16		SHEET 71 of 104

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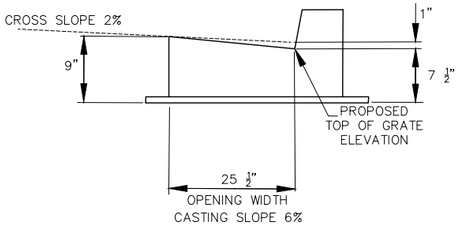
DS #	STATION / OFFSET (FT)	DESCRIPTION OF WORK	PROP T.G. ELEV.	SIDE 1 SIZE / IN ELEV.	SIDE 2 SIZE / IN ELEV.	SIDE 3 SIZE / IN ELEV.	OUTLET ELEV.	204.01	603.171316	603.6002	603.6003	603.6005	603.6009	603.081608	603.9818	603.9824	603.9836	603.99050002	604.06	604.07260011	604.301873	604.320103	604.320216	604.4048	604.4060	604.50180010	605.16030008	655.0706	655.1103	655.1116	655.1202
								(CY)	(EA)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(EA)	(EA)	(EA)	(EA)
1-1	RR 12+02.34	REMOVE 36 LF OF EXISTING CORRUGATED ARCH PIPE. SEE DETAIL ON DWG. DD-01. INSTALL 36 LF OF CORRUGATED ARCH PIPE 35"X24" AND INSTALL CONCRETE COLLAR, ITEM 603.77, AT EACH CONNECTION.			MEET EXISTING		MEET EXISTING							36.0																		
1-1A	RR 13+65.00 6.0' LT	INSTALL STORMWATER TREATMENT SYSTEM. SEE TABLE ON DWG NO. DST-01.	30.71		TBD		TBD																								
1-2	RR 13+91.50 11.0' LT	INSTALL 3.7 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 1-1 WITH 185.6 LF OF 18 " DIA. SICPP.	30.42		18" 26.62	15" 26.81	18" 26.62								185.6						3.7								1			
1-3	RR 14+45.90 13.0' LT	REMOVE EXISTING DI AND FILL THE EXISTING 12" CLAY PIPE WITH CONTROLLED LOW STRENGTH MATERIAL.						0.6										1													
1-4	RR 14+87.40 15.6' LT	REMOVE EXISTING DI AND INSTALL CONCRETE PIPE PLUG IN THE END OF THE EXISTING 12" CLAY PIPE.																1													
1-5	RR 15+00.00 11.0' LT	INSTALL 3.7 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 1-2 WITH 104.0 LF OF 18" SICPP DIAMETER PIPE.	30.93			15" 27.18	18" 27.04								104.0						3.7								1			
1-6	RR 12+02.34 7.0' LT	INSTALL 6.2 LF-TYPE 60 MANHOLE STRUCTURE, WITH A MH FRAME AND COVER ON NEW 35" x 24" PIPE ARCH.	32.30		18" 26.10		35"X24" 26.10																		6.2						1
1-7	RR 13+91.50 11.0' RT	INSTALL 3.4 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 1-2 WITH 16.4 LF OF 15" RCP DIAMETER PIPE, CLASS III.	30.42				15" 26.86			16.4											3.4								1			
1-8	RR 14+30.50 11.0' RT	REMOVE EXISTING DI AND FILL THE EXISTING 12" CLAY PIPE WITH CONTROLLED STRENGTH MATERIAL.						0.4										2													
1-9	RR 14+46.50 11.0' RT	REMOVE EXISTING DI AND INSTALL CONCRETE PIPE PLUG IN THE ENDS OF THE EXISTING 12" CLAY PIPE.																2													
1-10	RR 15+00.00 11.0' RT	INSTALL 3.6 LF- TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 1-5 WITH 16.4 LF OF 15" RCP DIAMETER PIPE.	30.93				15" 27.24			16.4											3.6								1			
2-1	RR 16+75.60 13.0' LT	REMOVE EXISTING DI AND FILL EXISTING 12" CMP PIPE WITH CONTROLLED LOW STRENGTH MATERIAL. INSTALL CONCRETE PIPE PLUG IN THE END 12" CMP PIPE IN SANITARY MANHOLE.						0.3										1													
2-2	RR 17+21.30 14.0' LT	INSTALL 24 LF OF TRANSVERSE DRAIN ACROSS DRIVEWAY AND DRAIN TO DS 2-3 USING 14.0 LF OF NON-PERFORATED 8" PVC PIPE.	30.65				8" 28.95												24								14.0				
2-3	RR 17+42.0 11.0' LT	INSTALL 3.5 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 2-4 WITH 46.2 LF OF 18" DIAMETER SICPP PIPE.	30.26		8" 27.50		18" 26.62								46.2						3.5								1			
2-4	RR 17+92.78 11.0' LT	INSTALL 3.6 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 2-5 WITH 106.2 LF OF 18" DIAMETER SICPP PIPE.	29.98	15" 26.35	18" 26.21		18" 26.21								106.2						3.6								1			
2-5	RR 19+02.00 11.0' LT	INSTALL 4.2 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 2-7 WITH 120.7 LF OF 18" DIAMETER SICPP PIPE.	30.24		18" 25.89		18" 25.89								120.7						4.2								1			
2-6	RR 19+16.90 12.3' LT	REMOVE EXISTING DI AND INSTALL CONCRETE PIPE PLUG IN THE ENDS OF THE EXISTING PIPES.																2													
SHEET TOTAL								1.3	0.0	32.8	0.0	0.0	0.0	36.0	562.7	0.0	0.0	9	24.0	0.0	25.7	0.0	0.0	0.0	6.2	0.0	14.0	7	0	0	1



PIPE ENTRY CONVENTION



REFERENCE POINT FOR STRUCTURES IN CURBED LOCATIONS



TOP OF GRATE ELEVATION

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ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
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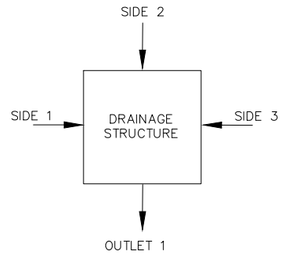
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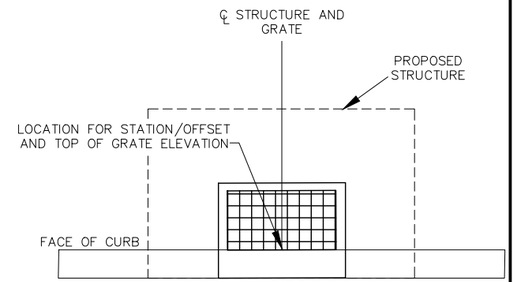
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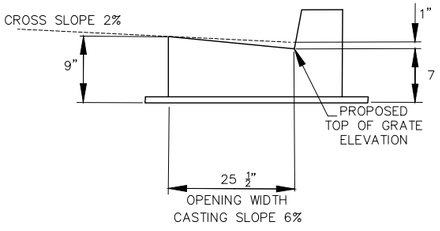
DS #	STATION / OFFSET (FT)	DESCRIPTION OF WORK	PROP T.G. ELEV.	SIDE 1 SIZE / IN ELEV.	SIDE 2 SIZE / IN ELEV.	SIDE 3 SIZE / IN ELEV.	OUTLET ELEV.	204.01 (CY)	603.171316 (EA)	603.6002 (LF)	603.6003 (LF)	603.6005 (LF)	603.6009 (LF)	603.9818 (LF)	603.9824 (LF)	603.9836 (LF)	603.99050002 (EA)	604.06 (LF)	604.07260011 (EA)	604.301873 (LF)	604.320103 (LF)	604.320216 (LF)	604.4048 (LF)	604.4060 (LF)	604.50180010 (LF)	605.16030008 (EA)	655.0706 (EA)	655.1103 (EA)	655.1116 (EA)	655.1202 (EA)
2-7	RR 20+26.20 11.0' LT	REMOVE EXISTING DI. INSTALL CONCRETE PIPE PLUG IN EXISTING 12" STEEL PIPE. INSTALL 3.6 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. .DRAIN TO DS 2-7A WITH 30.0 LF OF 18" DIAMETER SICPP PIPE. RECONNECT EXISTING TRENCH DRAIN TO NEW DI.	29.24		18" 25.52		18" 25.52							30.0			1			3.6							1				
2-7A	RR 20+55.00 11.0' LT	INSTALL 3.6 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 3-1 WITH 110 LF OF 18" SICCP DIAMETER PIPE.	28.75		18" 25.00		18" 25.00							110.0						3.6							1				
2-8	RR 16+78.20 13.0' RT	REMOVE EXISTING DI AND FILL THE EXISTING 12" CMP PIPE WITH CONTROLLED LOW STRENGTH MATERIAL.						4.8									1													
2-9	RR 17+92.78 11.0' RT	INSTALL 3.4 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 2-4 WITH 16.4 LF OF 15" RCP DIAMETER PIPE.	29.98				15" 26.41			16.4							1			3.4							1				
2-10	RR 20+26.20 11.0' RT	REMOVE EXISTING DI AND FILL THE EXISTING 12" STEEL PIPE FROM DS 2-7 WITH CONTROLLED LOW STRENGTH MATERIAL. INSTALL CONCRETE PIPE PLUG IN INLET END OF EXISTING 12" HDPE PIPE.						0.7									1													
2-11	RR 17+86.55 13.5' LT	REMOVE EXISTING DI AND FILL THE EXISTING 15" PVC PIPE WITH CONTROLLED LOW STRENGTH MATERIAL.						1.0									1													
2-12	RR 17+85.10 11.0' RT	REMOVE EXISTING DI AND INSTALL CONCRETE PIPE PLUG IN THE END OF THE EXISTING 12" CMP AND 15" PVC PIPES.															3													
3-1	RR 21+65.00 11.0' LT	INSTALL 3.4 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 3-3 WITH 175.9 LF OF 18" DIAMETER SICPP PIPE.	26.71	15" 23.37	18" 23.15		18" 23.15							175.9						3.4							1				
3-2	RR 22+75.80 12.2' LT	REMOVE EXISTING DI AND INSTALL CONCRETE PIPE PLUG IN THE OUTLET END OF THE EXISTING 8" CLAY PIPE.															1													
3-3	RR 23+45.00 11.0' LT	INSTALL 3.5 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 3-4 WITH 215.4 LF OF 18" DIAMETER SICPP PIPE.	25.12	15" 21.59	18" 21.47		18" 21.47							215.4						3.5							1				
3-3A	RR 24+00.00 7.0' LT	INSTALL STORMWATER TREATMENT SYSTEM. SEE TABLE ON DWG NO. DST-01	24.52	TBD			TBD																							
3-4	RR 25+65.00 11.0' LT	REMOVE EXISTING DI AND 12 LF OF 8" CLAY PIPE. FILL THE REMAINING CLAY PIPE WITH CONTROLLED LOW STRENGTH MATERIAL. INSTALL 6.3 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 3-8 WITH 27.3 LF OF 24" DIAMETER RCP PIPE.	22.66	18" 18.81		18" 18.81	24" 16.25	0.6				27.3					1			6.3							1				
3-5	RR 25+94.47 11.0' LT	INSTALL 3.6 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 3-4 WITH 26.0 LF OF 18" DIAMETER SICPP PIPE.	22.60			15" 19.12	18" 18.90							26.0						3.6							1				
3-6	RR 21+57.38 11.0' RT	INSTALL 3.4 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 3-1 WITH 18.0 LF OF 15" DIAMETER RCP PIPE.	26.94				15" 23.44			18.0										3.4							1				
3-7	RR 23+00.01 12.5' RT	REMOVE EXISTING DI AND INSTALL CONCRETE PIPE PLUGS IN END OF 10" CORRUGATED CULVERT PIPE.															1													
3-8	RR 23+45.00 11.0' RT	INSTALL 3.4 LF- TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 3-3 WITH 16.4 LF OF 15" DIAMETER RCP PIPE.	25.12				15" 21.66			16.4										3.4							1				
3-9	RR 25+45.35 13.5' RT	INSTALL 8.7 LF-TYPE 60 MANHOLE WITH A MANHOLE FRAME AND GRATE. DRAIN TO DS 3-12 WITH 65.5 LF OF 24" DIAMETER SICPP PIPE.	23.04		24" 14.25		24" 14.25								65.5								8.7							1
3-10	RR 25+54.00 12.5' RT	REMOVE EXISTING DI AND INSTALL CONCRETE PIPE PLUGS IN ENDS OF EXISTING 12" CLAY PIPES.															2													
SHEET TOTAL								7.1	0.0	50.8	0.0	27.3	0.0	557.3	65.5	0.0	13	0.0	0.0	34.2	0.0	0.0	0.0	8.7	0.0	0.0	9.0	0.0	0.0	1.0



PIPE ENTRY CONVENTION



REFERENCE POINT FOR STRUCTURES IN CURBED LOCATIONS



TOP OF GRATE ELEVATION

ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
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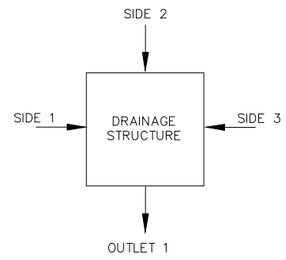
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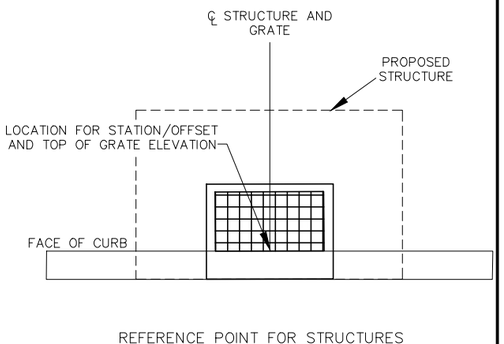
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		DWG No.: DST-02		SHEET 73 of 104

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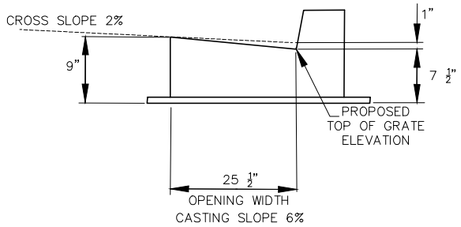
DS #	STATION / OFFSET (FT)	DESCRIPTION OF WORK	PROP T.G. ELEV.	SIDE 1 SIZE / IN ELEV.	SIDE 2 SIZE / IN ELEV.	SIDE 3 SIZE / IN ELEV.	OUTLET ELEV.	204.01 (CY)	603.171316 (EA)	603.6002 (LF)	603.6003 (LF)	603.6005 (LF)	603.6009 (LF)	603.6015 (LF)	603.6018 (LF)	603.6024 (LF)	603.6036 (LF)	603.99050002 (EA)	604.06 (LF)	604.07260011 (LF)	604.301873 (LF)	604.320103 (LF)	604.320216 (LF)	604.4048 (LF)	604.4060 (LF)	604.60180010 (LF)	605.06030008 (EA)	656.0706 (EA)	655.1103 (EA)	655.1116 (EA)	655.1202 (EA)
3-11	RR 25+94.47 11.0' RT	INSTALL 3.4 LF-OFFSET STRUCTURE WITH A #16 WELDED FRAME AND RETICULINE GRATE. DRAIN TO DS 3-5 WITH 20.0 LF OF 15" DIAMETER RCP PIPE.	22.68				15" 19.18			20.0															3.4				1	1
3-12	RR 25+46.76 81.65' RT	INSTALL 6.5 LF-TYPE A STRUCTURE WITH A #3 WELDED FRAME AND RETICULINE GRATE. DRAIN TO OUTLET THRU SEAWALL TO RIVER WITH 19.0 LF OF 24" DIAMETER SICPP PIPE. SEE DWG DD-03 FOR ADDITIONAL DETAIL.	12.73		24" 6.41		24" 6.19										19.0				6.5						1			
4-1A	RR 27+33.44 14.0' LT	INSTALL 12 LF OF TRANSVERSE DRAIN ACROSS DRIVEWAY TO DS 4-1B WITH 5 LF OF NON-PERFORATED 8" PVC PIPE.	24.65				8" 22.98												12.0							5.0					
4-1B	RR 27+50.00 14.0' LT	INSTALL 20 LF OF TRANSVERSE DRAIN ACROSS DRIVEWAY TO DS 4-1C WITH 11 LF OF NON-PERFORATED 8" PVC PIPE.	25.00		8" 22.98		8" 22.90												20.0							11.0					
4-1C	RR 27+70.00 11.0' LT	INSTALL 3.5 LF - TYPE A STRUCTURE WITH A TYPE #3 WELDED FRAME AND RETICULINE GRATE. DRAIN TO DS 4-2 WITH 100 LF OF 15" DIAMETER SICPP PIPE.	24.67		8" 21.50		15 " 21.15							100.0								3.5						1			
4-1	RR 28+76.14 19.0' LT	INSTALL 9.0 LF OF 36" DIAMETER SICPP PIPE IN STREAM CHANNEL. DRAIN TO DS 4-2.	INLET 21.00				36" 20.44										9.0														
4-2	RR 28+74.16 11.0' LT	REMOVE EXISTING DI AND 30" RCP PIPE. INSTALL 5.0 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO MH 4-8 WITH 18.4 LF OF 36" DIAMETER RCP PIPE.	24.69	15" 20.47	36" 20.47	18" 20.43	36" 19.55						18.4									5.0						1			
4-3	RR 29+47.44 11.0' LT	INSTALL 3.6 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 4-2 WITH 68.9 LF OF 18" DIAMETER SICPP PIPE.	24.41		18" 20.72	15" 20.86	18" 20.72								68.9							3.6						1			
4-3A	RR 29+65.00 6.0' LT	INSTALL STORMWATER TREATMENT SYSTEM. SEE TABLE ON DWG NO. DST-01.	24.62		TBD		TBD																								
4-4	RR 29+75.00 11.0' LT	INSTALL 3.4 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 4-3A WITH 24.0 LF OF 18" DIAMETER SICPP PIPE.	24.44		18" 20.90		18" 20.90								24.0							3.4						1			
4-5	RR 30+54.00 11.0' LT	INSTALL 3.7 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 4-4 WITH 74.4 LF OF 18" DIAMETER SICPP PIPE.	25.41		18" 21.62	15" 21.76	18" 21.62								74.4							3.7						1			
4-6	RR 32+04.00 11.0' LT	INSTALL 3.6 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 4-5 WITH 120.5 LF OF 18" DIAMETER SICPP PIPE.	27.69			15" 24.11	18" 23.93								120.5							3.6						1			
4-7	RR 27+01.50 11.0' RT	REMOVE EXISTING DI AND FILL THE EXISTING 8" PVC PIPE WITH CONTROLLED LOW STRENGTH MATERIAL.						4.2										1													
4-8	RR 28+67.80 13.0' RT	REMOVE EXISTING DI. INSTALL 6.1 LF-TYPE 60 MANHOLE WITH A MANHOLE FRAME AND COVER. DRAIN TO DS 4-9 WITH 58.5 LF OF 36" DIAMETER SICPP PIPE.	24.91		36" 19.00		36" 18.80										58.5							6.1							1
4-9	RR 28+57.41 74.5' RT	INSTALL 5.7 LF-TYPE 60 MANHOLE WITH A MANHOLE FRAME AND COVER. DRAIN TO DS 4-10 WITH 33.0 LF OF 36" DIAMETER SICPP PIPE.	11.50		36" 6.00		36" 5.80										33.0							5.7							1
4-10	RR 28+61.37 112.0' RT	INSTALL 4.1 LF-TYPE 60 MANHOLE WITH A MANHOLE FRAME AND COVER. DRAIN THRU TIMBER WALL TO RIVER WITH 24.1 LF OF 36" DIAMETER SICPP PIPE. SEE DETAIL, DWG DD-04.	8.00		36" 3.00		36" 2.52										24.1							5.5							1
4-11	RR 28+71.0 25.0' RT	ABANDON EXISTING DI IN DRIVEWAY, SEE DETAIL DWG. DD-01. INSTALL A CONCRETE PIPE PLUG AT THE DISCHARGE POINT OF THE 30" CMP AT RIVER EDGE. FILL THE EXISTING PIPE WITH CONTROLLED LOW STRENGTH MATERIAL.	NA				NA	20.0																								
4-12	RR 29+47.44 11.0' RT	INSTALL 3.5 LF-OFFSET STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 4-3 WITH 20.0 LF OF 15" DIAMETER RCP PIPE.	24.49				15" 20.92			20.0															3.5				1	
4-13	RR 30+54.00 11.0' RT	REMOVE EXISTING DI. INSTALL A CONCRETE PIPE PLUG AT THE END OF EXISTING 12" CMP PIPE. INSTALL 3.7 LF-OFFSET STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 4-5 WITH 20.0 LF OF 15" RCP PIPE.	25.49				15" 21.82			20.0									1						3.6				1	
4-14	RR 32+04.00 11.0' RT	INSTALL 3.5 LF-OFFSET STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 4-6 WITH 20.0 LF OF 15" DIAMETER RCP PIPE.	27.77				15" 24.17			20.0															3.6				1	
5-1	RR 35+07.68 11.0' LT	REMOVE EXISTING DI AND 5 LF OF EXISTING 12" CLAY PIPE. FILL REMAINING PIPE WITH CONTROLLED LOW STRENGTH MATERIAL. INSTALL 3.7 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 5-2 WITH 69.7 LF OF 18" DIAMETER SICPP PIPE. RECONNECT EXISTING 4" AND 6" PVC PIPES.	28.66				18" 25.05	0.7							69.7			1.0				3.5						1			
SHEET TOTAL								24.2	0.0	80.0	0.0	0.0	18.4	100.0	287.8	0.0	143.6	2	32.0	0.0	19.3	10.0	0.0	0.0	17.3	14.1	16.0	5.0	2.0	4.0	4.0



PIPE ENTRY CONVENTION



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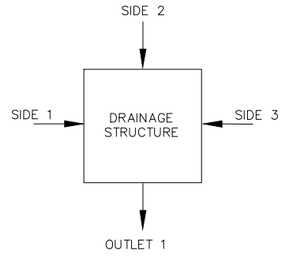
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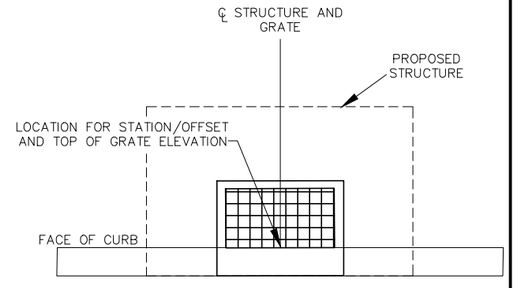
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DWG No.: DST-03		SHEET 74 of 104

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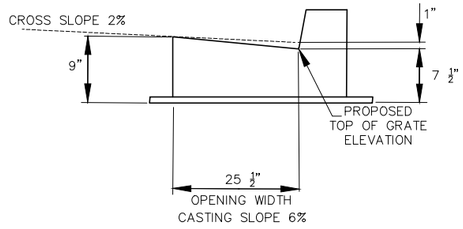
DS #	STATION / OFFSET (FT)	DESCRIPTION OF WORK	PROP T.G. ELEV.	SIDE 1 SIZE / IN ELEV.	SIDE 2 SIZE / IN ELEV.	SIDE 3 SIZE / IN ELEV.	OUTLET ELEV.	204.01	603.171316	603.6002	603.6003	603.6005	603.6009	603.9818	603.9824	603.9836	603.99050002	604.06	604.072800	604.301873	604.320103	604.320216	604.4048	604.4050	604.50180010	605.16030008	655.0706	655.1103	655.1116	655.1202
								(CY)	(EA)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(EA)	(EA)	(EA)	(EA)
5-2	RR 35+81.00 11.0' LT	INSTALL 3.5 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 5-4 WITH 108.8 LF OF 15" DIAMETER PIPE.	28.04	15" 24.55	18" 24.41		18" 24.41							108.8						3.5							1			
5-3	RR 36+72.0 16.0' LT	REMOVE EXISTING DI AND REMAINING 12" CLAY PIPE NOT REMOVED BY THE INSTALLATION OF DS 5-4.																												
5-4	RR 36+72.0 11.0' LT	INSTALL 6.6 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 5-8 WITH 17.0 LF OF 24" DIAMETER RCP PIPE.	27.00	18" 22.92		18" 20.23	24" 20.00					17.0								6.6							1			
5-4A	RR 37+20.00 6.0' LT	INSTALL STORMWATER TREATMENT SYSTEM. SEE TABLE ON DWG NO. DST-01.	26.52		TBD		TBD																							
5-4B	RR 37+10.0 13.5' LT	INSTALL 12 LF TRANSVERSE DRAIN ACROSS DRIVEWAY. DRAIN TO PIPE BETWEEN DS 5-3 & DSD 5-4 AT STA 36+95 USING 15.0 LF OF 8" DIAMETER NON-PERFORATED PVC PIPE.	27.30				8" 25.63										12							15.0					
5-5	RR 37+75.50 11.0' LT	REMOVE EXISTING DI AND REMAINING 12" CLAY PIPE. INSTALL 5.4 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 5-4 WITH 77.9 LF OF 18" DIAMETER SICPP PIPE. RECONNECT 6" YARD DRAIN TO NEW DI.	25.80		18" 20.47	15" 22.34	18" 20.47							77.9						5.4							1			
5-5A	RR 38+00.00 15.0' LT	INSTALL 22 LF TRANSVERSE DRAIN ACROSS DRIVEWAY. DRAIN TO PIPE BETWEEN DS 5-5 USING 20.0 LF OF 8" DIAMETER NON-PERFORATED PVC PIPE.	27.10				8" 25.60										22							20.0					
5-6	RR 35+08.00 12.0' RT	REMOVE EXISTING DI AND INSTALL CONCRETE PIPE PLUG IN ENDS OF EXISTING 12" CLAY PIPE.															2													
5-7	RR 35+81.0 11.0' RT	INSTALL 3.5 LF-OFFSET STRUCTURE WITH A TYPE #16 WELDED FRAME AND RETICULINE GRATE. DRAIN TO DS 5-2 WITH 20.0 LF OF 15" DIAMETER RCP PIPE.	28.12				15" 24.61			20.0														3.5				1	1
5-8	RR 36+72.0 11.0' RT	INSTALL 7.3 LF- TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO OUTLET IN RIVER WITH 20.6 LF OF 24" DIAMETER SICPP PIPE.	27.00		24" 19.66		24" 19.63								20.6					7.3							1			
5-9	RR 37+02.4 11.2' RT	REMOVE EXISTING DI AND INSTALL CONCRETE PIPE PLUG IN THE END OF THE EXISTING PIPE.															1													
5-10	RR 37+75.5 11.0' RT	REMOVE EXISTING DI. INSTALL A CONCRETE PIPE PLUG IN END OF EXISTING 10" CLAY PIPE. INSTALL 3.5 LF-OFFSET STRUCTURE WITH A TYPE #16 WELDED FRAME AND RETICULINE GRATE. DRAIN TO DS 5-5 WITH 20.0 LF OF 15" DIAMETER RCP PIPE.	25.88				15" 22.40			20.0							2							3.5				1	1
5-11	RR 38+32.60 11.8' RT	REMOVE EXISTING DI AND INSTALL CONCRETE PIPE PLUG IN THE END OF EXISTING 18" CMP PIPE.															1													
6-1	RR 38+75.00 11.0' LT	INSTALL 3.8 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 5-5 WITH 95.6 LF OF 18" DIAMETER SICPP PIPE.	24.65		18" 20.77		18" 20.77							95.6						3.7							1			
6-2	RR 39+04.97 11.0' LT	INSTALL 3.7 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 6-1 WITH 26.4 LF OF 18" DIAMETER SICPP PIPE.	24.53		18" 20.85	15" 21.00	18" 20.85							26.4						3.6							1			
6-3	RR 39+25.00 11.0' LT	REMOVE EXISTING DI. INSTALL CONCRETE PIPE PLUG IN END OF 6" CLAY PIPE. INSTALL TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 6-2 WITH 17.9 LF OF 18" DIAMETER SICPP PIPE. RECONNECT 6" CLAY YARD DRAIN TO NEW STRUCTURE.	24.59				18" 20.96							17.9			1			3.5							1			
6-4	RR 40+62.70 15.0' LT	REMOVE EXISTING DI AND INSTALL CONCRETE PIPE PLUG IN THE ENDS OF THE EXISTING PIPE.															2													
6-5	RR 42+25.30 14.0' LT	INSTALL 24.0 LF OF TRANSVERSE DRAINAGE ACROSS DRIVEWAY. DRAIN TO DS 6-6 WITH 15 LF OF 8" DIAMETER NON-PERFORATED 8" PVC PIPE.	25.00				8" 23.60											24.0							15.0					
6-6	RR 42+50.00 11.0' LT	INSTALL 3.7 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 6-7 WITH 120.9 LF OF 18" DIAMETER SICPP PIPE.	24.19				18" 20.54							120.9						3.5				0.0			1			
6-7	RR 43+74.50 11.3' LT	INSTALL 3.7 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 7-1 WITH 102.4 LF OF 18" DIAMETER SICPP PIPE.	22.74		18" 19.10		18" 19.10							102.4						3.5							1			
SHEET TOTAL								0.0	0.0	40.0	0.0	17.0	0.0	549.9	20.6	0.0	9	58.0	0.0	40.6	0.0	0.0	0.0	0.0	7.0	50.0	9.0	0.0	2.0	2.0



PIPE ENTRY CONVENTION



REFERENCE POINT FOR STRUCTURES IN CURBED LOCATIONS



TOP OF GRATE ELEVATION

ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

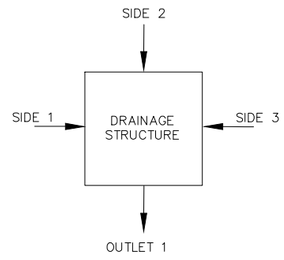
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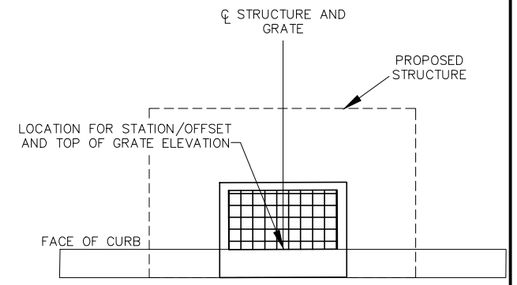
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		DWG No.: DST-04		SHEET 75 of 104

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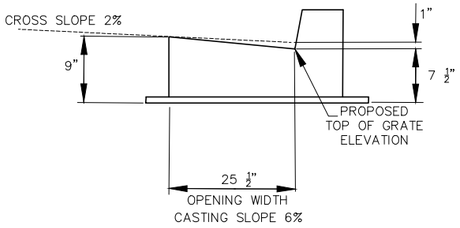
DS #	STATION / OFFSET (FT)	DESCRIPTION OF WORK	PROP T.G. ELEV.	SIDE 1 SIZE / IN ELEV.	SIDE 2 SIZE / IN ELEV.	SIDE 3 SIZE / IN ELEV.	OUTLET ELEV.	204.01	603.171316	603.6002	603.6003	603.6005	603.6009	603.9818	603.9824	603.9836	603.99050002	604.06	604.07260011	604.301873	604.320103	604.320216	604.4048	604.4060	604.50180010	605.16030008	655.0706	655.1103	655.1116	655.1202
								(CY)	(EA)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(EA)	(EA)	(EA)	(EA)
6-7A	RR 44+40.00 6.0' LT	INSTALL STORMWATER TREATMENT SYSTEM. SEE TABLE ON DWG NO. DST-01.	22.62		TBD		TBD																						
6-8	RR 39+04.97 11.0' RT	INSTALL 3.4 LF-OFFSET STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 6-1 WITH 16.4 LF OF 15" DIAMETER RCP PIPE.	25.61				15" 21.06			20.0														3.4				1	1
6-9	RR 39+76.40 12.8' RT	REMOVE EXISTING DI AND INSTALL CONCRETE PIPE PLUG IN END OF THE EXISTING 12" CLAY PIPE.															1													
6-10	RR 42+29.20 10.4' RT	REMOVE EXISTING DI AND INSTALL CONCRETE PIPE PLUG IN END OF THE EXISTING PIPE.															1													
6-11	RR 43+74.50 11.0' RT	INSTALL 3.3 LF-OFFSET STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 6-7 WITH 16.4 LF OF 15" DIAMETER RCP PIPE.	22.82				15" 19.40			20.0														3.3				1	1
6-12	RR 43+74.00 14.0' LT	REMOVE EXISTING STRUCTURE AND REMOVE PIPE THRU DS 6-7. FILL REMAINING 12" CLAY PIPE WITH CONTROLLED LOW STRENGTH MATERIAL.						0.7									1													
6-13	RR 43+80.00 14.0' LT	REMOVE EXISTING STRUCTURE. INSTALL A CONCRETE PIPE PLUG IN END OF EXISTING 12" CLAY PIPE S.															2													
7-1	RR 44+80.41 11.0' LT	REMOVE EXISTING STRUCTURE. INSTALL 3.5 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 7-2 WITH 61.1 LF OF 18" DIAMETER SICPP PIPE. FILL EXISTING 12" HDPE WITH CONTROLLED LOW STRENGTH MATERIAL.	22.29		18" 18.67		18" 18.67	0.6						61.1						3.5							1			
7-2	RR 45+45.25 11.0' LT	INSTALL 6.2 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 7-7 WITH 16.4 LF OF 18" DIAMETER RCP PIPE.	22.78	18" 18.46			18" 16.50				16.4									6.2							1			
7-3	RR 46+67.00 10.8' LT	REMOVE EXISTING DI. INSTALL 3.7 LF- TYPE 60 MANHOLE WITH MANHOLE FRAME AND COVER. DRAIN TO DS 7-8 WITH 19.3 LF OF 18" DIAMETER RCP PIPE. RECONNECT RCHD 7-4.	24.52			18" 20.76	18" 20.76				19.3												3.7						1
7-4		NO WORK AT THIS STRUCTURE																												
7-5	RR 46+90.00 11.0' LT	INSTALL 3.8 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 7-3 WITH 19.6 LF OF 18" DIAMETER SICPP PIPE.	24.84		18" 20.92		18" 20.92							19.6						3.8							1			
7-6	RR 44+80.41 11.0' RT	REMOVE EXISTING STRUCTURE. INSTALL 3.7 LF-OFFSET STRUCTURE WITH A #16 WELDED FRAME AND RETICULINE GRATE. DRAIN TO DS 7-7 WITH 61.3 LF OF 18" DIAMETER SICPP PIPE.	22.37				18" 18.67							61.3										3.7				1	1
7-7	RR 45+45.25 11.0' RT	INSTALL 6.2 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. OUTLET TO RIVER USING EXISTING 24" DIAMETER SICPP OUTLET PIPE.	22.78	18" 18.40	18" 16.45	18" 18.49	24" 16.44													6.2							1			
7-8	RR 46+57.50 11.0' RT	INSTALL 3.7 LF-OFFSET STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 7-7 WITH 108.5 LF OF 18" DIAMETER SICPP PIPE.	24.60	18" 20.62			18" 20.62							108.5										3.7				1	1
7-9	RR 48+75.00 11.0' LT	INSTALL 3.7 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 7-5 WITH 181.0 LF OF 18" DIAMETER SICPP PIPE.	26.10		18" 22.44		18" 22.44							181.0						3.5							1			
8-1	RR 50+05.00 11.0' LT	INSTALL 3.7 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 7-9 WITH 126.0 LF OF 18" DIAMETER SICPP PIPE.	29.04		18" 25.14	15" 25.27	18" 25.14							126.0						3.8							1			
8-1A	RR 50+75.00 6.0' LT	INSTALL STORMWATER TREATMENT SYSTEM. SEE TABLE ON DWG NO. DST-01.	30.27		TBD		TBD																							
8-2	RR 51+02.00 11.0' LT	REMOVE EXISTING DI AND INSTALL CONCRETE PIPE PLUG IN END OF EXISTING 12" CMP. INSTALL 3.7 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 8-1 WITH 93.0 LF OF 18" DIAMETER SICPP PIPE.	30.45		18" 26.81		18" 26.81							93.0						3.7							1			
8-2A	RR 51+45.00 11.0' LT	INSTALL 3.7 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 8-2 WITH 47.0 LF OF 18" DIAMETER RCP PIPE.	31.01		8" 27.05		18" 27.05							47.0						3.8							1			
								1.3	0.0	40.0	35.7	0.0	0.0	697.5	0.0	0.0	5.0	0.0	0.0	34.5	0.0	0.0	0.0	3.7	14.1	0.0	8.0	0.0	4.0	5.0



PIPE ENTRY CONVENTION



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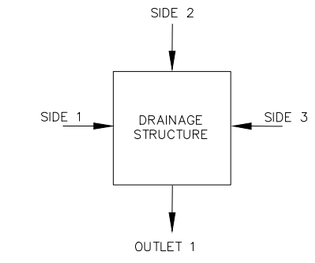
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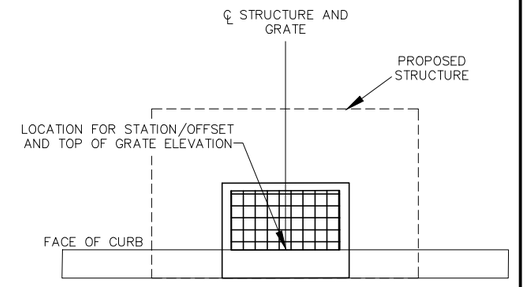
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		DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
		DATE: NOV 2020	SCALE: NO SCALE	PROJ. NO.: 839.001.001
		DWG No.: DST-05		SHEET 76 of 104

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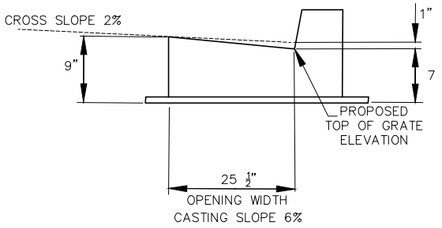
DS #	STATION / OFFSET (FT)	DESCRIPTION OF WORK	PROP T.G. ELEV.	SIDE 1 SIZE / IN ELEV.	SIDE 2 SIZE / IN ELEV.	SIDE 3 SIZE / IN ELEV.	OUTLET ELEV.	204.01	603.171316	603.6002	603.6003	603.6005	603.6009	603.9818	603.9824	603.9836	603.99060002	604.06	604.07260011	604.301873	604.320103	604.320216	604.4048	604.4060	604.50180010	605.16030008	655.0706	655.1103	655.1116	655.1202
								(CY)	(EA)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(EA)	(EA)	(EA)	(EA)
8-2B	RR 51+41.40 14.0' LT	INSTALL 16 LF TRANSVERSE DRAIN ACROSS DRIVEWAY. DRAIN TO DS 8-2A WITH 10.0 LF OF 8" DIAMETER NON-PERFORATED PVC PIPE.	31.40				8" 29.75											16								10.0				
8-3A	RR 53+34.60 14.0' LT	INSTALL 12 LF TRANSVERSE DRAIN ACROSS DRIVEWAY. DRAIN TO DS 8-3 WITH 15.0 LF OF 8" DIAMETER NON-PERFORATED PVC PIPE.	33.30				8" 31.63											12								15.0				
8-3	RR 53+73.00 11.0' LT	INSTALL 3.7 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 8-4 WITH 124.0 LF OF 18" DIAMETER SICPP PIPE.	32.73		8" 29.25		18" 28.92							124.0						3.7							1			
8-4	RR 55+00.00 11.0' LT	INSTALL 3.6 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 9-1 WITH 61.5 LF OF 18" DIAMETER SICPP PIPE.	31.64		18" 27.92		18" 27.92							61.5						3.6							1			
8-5	RR 50+05.00 11.0' RT	INSTALL 3.7 LF-OFFSET STRUCTURE WITH A #16 WELDED FRAME AND RETICULINE GRATE. DRAIN TO DS 8-1 WITH 20.0 LF OF 15" DIAMETER RCP PIPE.	29.12				15" 25.34			20.0															3.7				1	1
9-1	RR 55+65.00 11.0' LT	INSTALL 3.7 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 9-4 WITH 103.0 LF OF 18" DIAMETER SICPP PIPE.	31.12	15" 27.50	18" 27.34		18" 27.34							103.0						3.7							1			
9-2	RR 55+73.10 13.0' LT	REMOVE EXISTING DI AND INSTALL CONCRETE PIPE PLUG IN END OF EXISTING 8" CLAY PIPE. FILL EXISTING 12" CLAY PIPE WITH CONTROLLED LOW STRENGTH MATERIAL.						0.7									1													
9-3	RR 56+06.40 11' LT	REMOVE EXISTING DI AND INSTALL CONCRETE PIPE PLUG IN THE END OF EXISTING 8" CLAY PIPE.															1													
9-4	RR 56+71.50 11.0' LT	REMOVE EXISTING DI. INSTALL 3.6 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 9-5 WITH 49.0 LF OF 18" DIAMETER SICPP PIPE.	30.85	15" 27.22	18" 27.10		18" 27.10							49.0						3.6							1			
9-5	RR 57+24.00 11.0' LT	INSTALL 3.8 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 9-11 WITH 20 LF OF 24" DIAMETER RCP PIPE.	30.93	18" 26.95		18" 26.95	24" 26.95					20.0								3.8							1			
9-5A	RR 57+24.00 5.0' LT	INSTALL STORMWATER TREATMENT SYSTEM. SEE TABLE ON DWG NO. DST-01.	31.13		TBD		TBD																							
9-6	RR 57+69.25 11.0' LT	REMOVE EXISTING DI AND INSTALL CONCRETE PIPE PLUG IN THE END OF THE EXISTING 15" HDPE PIPE. INSTALL 3.6 LF-TYPE R STRUCTURE WITH TYPE A FRAME AND G3 GRATE. DRAIN TO DS 9-5 WITH 41.5 LF OF 18" DIAMETER SICPP PIPE.	31.31				18" 27.48							41.5			1			3.6							1			
9-7	RR 59+41.20 13.0' LT	REMOVE EXISTING DI AND INSTALL CONCRETE PIPE PLUG IN THE END OF THE EXISTING 12" CMP PIPE.															1													
9-8	RR 55+65.00 11.0' RT	INSTALL 3.5 LF- OFFSET STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 9-1 WITH 20.0 LF OF 15" DIAMETER RCP PIPE.	31.20				15" 27.57			20.0															3.5				1	1
9-9	RR 55+82.00 11.0' RT	REMOVE EXISTING DI AND INSTALL CONCRETE PIPE PLUG IN THE END OF THE EXISTING 12" CLAY PIPE AND END OF 20" HDPE PIPE.															2													
9-10	RR 56+71.50 11.0' RT	INSTALL 3.5 LF-OFFSET STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 9-4 WITH 20.0 LF OF 15" DIAMETER RCP PIPE.	30.93				15" 27.29			20.0															3.5				1	1
9-11	RR 57+24.00 11.0' RT	REMOVE EXISTING DI. INSTALL 9.2 LF-TYPE R STRUCTURE WITH TYPE F3 FRAME AND G3 GRATE. EXTEND EXISTING 24" DIAMETER OUTLET TO DS 9-11 WITH 2 LF OF 24" DIAMETER SICPP PIPE.	30.93		24" 26.60		24" 21.60								2.0					9.2							1			
9-12	RR 57+24.00 15.0' LT	REMOVE EXISTING DI AND 15" DIAMETER HDPE PIPE. INSTALL CONCRETE PIPE PLUG IN END OF EXISTING 15" DIAMETER HDPE PIPE.															1													
SHEET TOTAL								0.7	0.0	60.0	0.0	20.0	0.0	379.0	2.0	0.0	7	28.0	0.0	31.2	0.0	0.0	0.0	0.0	10.7	25.0	7.0	0.0	3.0	3.0



PIPE ENTRY CONVENTION



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ROCKLAND COUNTY HIGHWAY DEPARTMENT

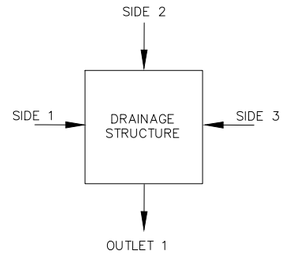
RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

DRAINAGE TABLE

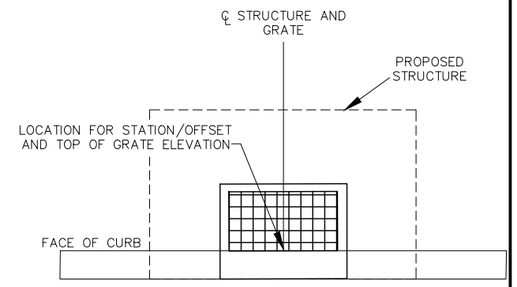
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		DATE: NOV 2020	SCALE: NO SCALE	PROJ. NO.: 839.001.001
		DWG No.: DST-06		SHEET 77 of 104

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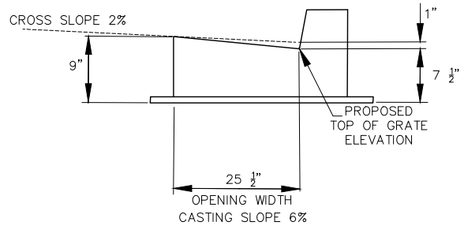
DS #	STATION / OFFSET (FT)	DESCRIPTION OF WORK	PROP T.G. ELEV.	SIDE 1 SIZE / IN ELEV.	SIDE 2 SIZE / IN ELEV.	SIDE 3 SIZE / IN ELEV.	OUTLET ELEV.	204.01	603.171316	603.6002	603.6003	603.6005	603.6009	603.9818	603.9824	603.9836	603.99050002	604.06	604.07260011	604.301873	604.320103	604.320216	604.4048	604.4060	604.50180010	655.0706	655.1103	655.1116	655.1202
								(CY)	(EA)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(EA)	(EA)	(EA)	(EA)
10-1	RR 61+52.50 11.0' LT	INSTALL 3.5 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 10-3 WITH 154.0 LF OF 18" DIAMETER SICPP PIPE.	31.03	15" 27.49			18" 27.38							154.0						3.5						1			
10-2	RR 62+55.75 11.5' LT	REMOVE EXISTING DI AND INSTALL CONCRETE PIPE PLUG IN THE OUTLET END OF THE EXISTING 4" PVC PIPE.															1												
10-3	RR 63+10.00 11.0' LT	INSTALL 3.5 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 10-5 WITH 186.0 LF OF 18" DIAMETER SICPP PIPE.	28.96	15" 25.44	18" 25.29		18" 25.29							186.0						3.5						1			
10-4	RR 64+02.30 12.0' LT	REMOVE EXISTING DI AND FILL THE EXISTING 12" CMP PIPE WITH CONTROLLED LOW STRENGTH MATERIAL.						0.6									1												
10-5	RR 65+00.00 11.0' LT	INSTALL 3.8 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 10-11 WITH 19.0 LF OF 18" DIAMETER RCP PIPE.	26.71	18" 22.96		18" 22.80	18" 22.80					19.0								3.8						1			
10-5A	RR 65+05.00 5.0' RT	INSTALL STORMWATER TREATMENT SYSTEM. SEE TABLE ON DWG NO. DST-01.	26.88		TBD		TBD																						
10-6	RR 65+46.34 11.0' LT	INSTALL 3.5 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 10-6 WITH 38.5 LF OF 18" DIAMETER SICPP PIPE.	26.55			15" 23.06	18" 22.92							38.5						3.5						1			
10-7	RR 65+98.60 15.0' LT	REMOVE EXISTING DI AND HEADWALL. FILL THE EXISTING 6" CLAY PIPE WITH CONTROLLED LOW STRENGTH MATERIAL.						0.4									1												
10-8	RR 61+52.50 11.0' RT	INSTALL 3.4 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 10-1 WITH 16.4 LF OF 15" DIAMETER RCP PIPE.	31.03				15" 27.55			16.4										3.4						1			
10-9	RR 63+10.00 11.0' RT	INSTALL 3.5 LF-OFFSET STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 10-3 WITH 20.0 LF OF 15" DIAMETER RCP PIPE.	29.04				15" 25.50			20.0														3.5			1	1
10-10	RR 64+02.10 11.0' RT	REMOVE EXISTING DI AND INSTALL CONCRETE PIPE PLUG IN END OF 12" DIAMETER CMP PIPE AND END OF EXISTING 12" PVC PIPE.															2												
10-11	RR 65+05.00 11.0' RT	INSTALL 4.1LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 10-11A WITH 10.0 LF OF 18" DIAMETER SICPP PIPE.	26.81		18" 22.50		18" 22.36							10.0						4.1						1			
10-11A	RR 65+05.00 18.0' RT	INSTALL 4.9 LF OF 48" DIAMETER MANHOLE. OUTLET TO RIVER WITH 10 LF OF 18" DIAMETER SICPP PIPE.	26.00		18" 22.36		18" 21.00							10.0									4.9						1
10-12	RR 65+46.34 11.0' RT	INSTALL 3.4 LF-OFFSET STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 10-6 WITH 20. LF OF 15" DIAMETER RCP PIPE.	26.63				15" 23.12			20.0														3.4			1	1
10-13	RR 65+97.70 13.5' RT	REMOVE EXISTING DI AND INSTALL CONCRETE PIPE PLUG IN ENDS OF EXISTING 6" CLAY PIPE.															2												
11-1	RR 68+01.80 13.20.4' LT	INSTALL 21" GALVANIZED END SECTION. DRAIN TO DS 11-2 WITH 11.5 LF OF 18" DIAMETER SICPP PIPE.	INLET 26.00				18" 22.75		1					11.5															
11-2	RR 68+07.51 11.0' LT	INSTALL 3.4 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 11-3 WITH 48.5 LF OF 18" DIAMETER SICPP PIPE.	25.83	15" 22.55		18" 22.75	18" 22.33							48.5						3.4						1			
11-3	RR 68+60.00 11.0' LT	INSTALL 6.9 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 11-6 WITH 19 LF OF 18" DIAMETER RCP PIPE.	26.05	18" 22.55		18" 22.00	18" 19.00				19.0									6.9						1			
11-3A	RR 68+60.00 5.0' RT	INSTALL STORMWATER TREATMENT SYSTEM. SEE TABLE ON DWG NO. DST-01.	26.25		TBD		TBD																						
11-4	RR 70+15.00 11.0' LT	INSTALL 3.4 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 11-3 WITH 151.2 LF OF 18" DIAMETER SICPP PIPE.	27.12	18" 23.65		15" 23.88	18" 23.65							151.2						3.4						1			
SHEET TOTAL								1.0	1.0	56.4	19.0	19.0	0.0	609.7	0.0	0.0	7	0.0	0.0	35.5	0.0	0.0	4.9	0.0	6.9	9.0	0.0	2.0	3.0



PIPE ENTRY CONVENTION



REFERENCE POINT FOR STRUCTURES IN CURBED LOCATIONS



TOP OF GRATE ELEVATION

ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
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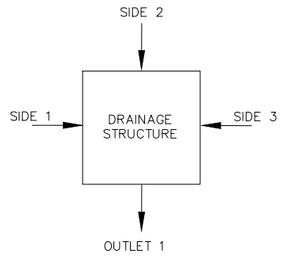
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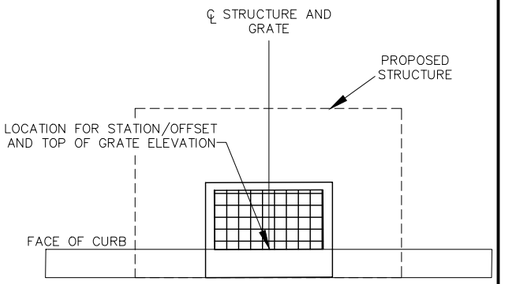
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		DWG No.: DST-07		SHEET 78 of 104

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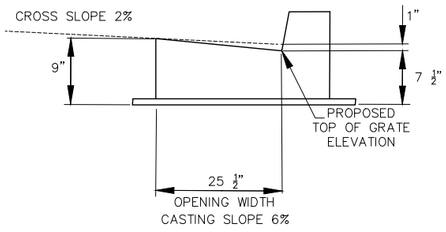
DS #	STATION / OFFSET (FT)	DESCRIPTION OF WORK	PROP T.G. ELEV.	SIDE 1 SIZE / IN ELEV.	SIDE 2 SIZE / IN ELEV.	SIDE 3 SIZE / IN ELEV.	OUTLET ELEV.	204.01	603.171316	603.6002	603.6003	603.6005	603.6009	603.9818	603.9824	603.9836	603.99050002	604.06	604.07260011	604.301873	604.320103	604.320216	604.4048	604.4060	604.50180010	605.16030008	655.0706	655.1103	655.1116	655.1202
								(CY)	(EA)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(EA)	(EA)	(EA)	(EA)
11-5	RR 68+07.51 11.0' RT	INSTALL 3.2 LF-TYPE B STRUCTURE WITH A #16 WELDED FRAME AND RETICULINE GRATE. DRAIN TO DS 11-2 WITH 16.4 LF OF 15" DIAMETER RCP PIPE.	25.91				15" 22.61			16.4												3.2							1	
11-6	RR 68+60.0 11.0' RT	INSTALL 7.4 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DISCHARGE TO RIVER WITH 31.2 LF OF 18" DIAMETER SICPP PIPE.	26.05		18" 18.50		18" 18.50							31.0					7.4							1			
11-7	RR 70+15.00 11.0' RT	INSTALL 3.1 LF-OFFSET STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 11-4 WITH 20.0 LF OF 15" DIAMETER RCP PIPE.	27.20				15" 23.94			20.0															3.1				1	1
11-8	RR 71+95.0 11' LT	INSTALL 3.6 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 11-4 WITH 176.6 LF OF 18" DIAMETER SICPP PIPE.	29.07				18" 25.41							176.6					3.6							1			
12-1	RR 73+81.10 11.0' LT	INSTALL 3.5 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 12-3 WITH 41.0 LF OF 18" DIAMETER SICPP PIPE.	28.16	15" 24.70			18" 24.55							41.0					3.5							1			
12-2	RR 74+17.90 13.5' LT	REMOVE EXISTING DI AND FILL THE EXISTING 12" PVC PIPE CONTROLLED LOW STRENGTH MATERIAL.						0.6									1												
12-3	RR 74+25.00 11.0' LT	INSTALL 3.7 LF- TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 12-7 WITH 18.1 LF OF 24" DIAMETER RCP PIPE.	28.29	18" 24.42		18" 24.42	24" 24.42				18.1								3.7							1			
12-3A	RR 74+45.00 5.0' LT	INSTALL STORMWATER TREATMENT SYSTEM. SEE TABLE ON DWG NO. DST-01	28.61		TBD		TBD																						
12-4	RR 75+41.35 14.0' LT	REMOVE EXISTING DI AND FILL THE EXISTING 6" CLAY PIPE WITH CONTROLLED LOW STRENGTH MATERIAL.						0.4									1												
12-5	RR 76+19.50 11.0' LT	INSTALL 3.4 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 12-3 WITH 190.0 LF OF 18" DIAMETER SICPP PIPE.	29.77		18" 26.25	15" 26.49	18" 26.25							190.0					3.4							1			
12-6	RR 73+80.10 11.0' RT	INSTALL 3.4 LF-OFFSET STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 12-1 WITH 20.0 LF OF 15" DIAMETER RCP PIPE.	28.24				15" 24.75			20.0															3.4				1	1
12-7	RR 74+15.65 11.0' RT	REMOVE EXISTING DI AND OUTLET PIPE. INSTALL CONCRETE PIPE PLUG IN THE EXISTING 12" PVC PIPE AND 6" CLAY PIPE. INSTALL 4.1 LF-TYPE R STRUCTURE WITH TYPE F3 FRAME AND G3 GRATE. DRAIN TO EXISTING MANHOLE WITH 15.5 LF OF 24" DIAMETER SICPP PIPE.	28.25		24" 24.25		24" 24.00								15.5		2			4.1							1			
12-8	RR 74+51.30 11.5' RT	REMOVE EXISTING DI AND FILL THE EXISTING 6" CLAY PIPE WITH CONTROLLED LOW STRENGTH MATERIAL. INSTALL CONCRETE PLUG IN EXISTING 6" CLAY PIPE.						0.5									2												
12-9	RR 75+33.00 10.5' RT	REMOVE EXISTING DI AND FILL THE EXISTING 6" CLAY PIPE WITH CONTROLLED LOW STRENGTH MATERIAL. INSTALL CONCRETE PIPE PLUG INLET END OF EXISTING 6" CLAY PIPE.						1.2									2												
12-10	RR 76+19.50 11.0' RT	INSTALL 3.4 LF-OFFSET STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 12-5 WITH 20.0 LF OF 15" DIAMETER RCP PIPE.	29.85				15" 26.55			20.0															3.4				1	1
13-1	RR 77+94.8 14.3' LT	REMOVE EXISTING DI AND INSTALL CONCRETE PIPE PLUG IN THE OUTLET END OF THE EXISTING PIPE. (FILLED WITH WATER)															1												
13-2	RR 78+41.24 19.0' LT	INSTALL 21" GALVANIZED END SECTION. DRAIN TO DS 13-3 WITH 10.0 LF OF 18" DIAMETER PIPE. REMOVE EXISTING 12" DIAMETER CLAY PIPE AS NECESSARY.	INLET 31.94				18" 29.55		1					10.0																
SHEET TOTAL								2.70	1.0	76.4	18.1	0.0	0.0	448.6	15.5	0.0	9	0.0	0.0	25.7	0.0	3.2	0.0	0.0	9.9	0.0	6.0	0.0	4.0	3.0



PIPE ENTRY CONVENTION



REFERENCE POINT FOR STRUCTURES IN CURBED LOCATIONS



TOP OF GRATE ELEVATION

ROCKLAND COUNTY HIGHWAY DEPARTMENT

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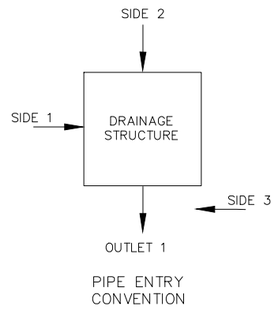
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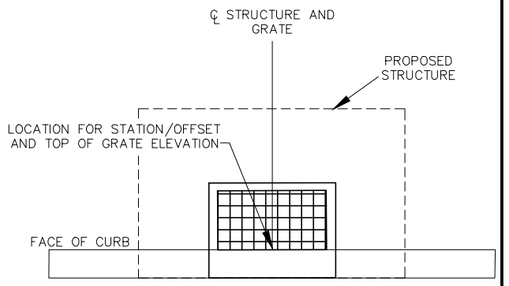
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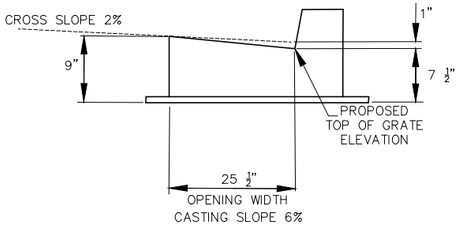
DS #	STATION / OFFSET (FT)	DESCRIPTION OF WORK	PROP T.G. ELEV.	SIDE 1 SIZE / IN ELEV.	SIDE 2 SIZE / IN ELEV.	SIDE 3 SIZE / IN ELEV.	OUTLET ELEV.	204.01	603.171316	603.6002	603.6003	603.6005	603.6009	603.9818	603.9824	603.9836	603.9905002	604.06	604.07260011	604.301873	604.320103	604.320216	604.4048	604.4060	604.50180010	605.16030008	655.0706	655.1103	655.1116	655.1202
								(CY)	(EA)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	EA	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(EA)	(EA)	(EA)	(EA)	(EA)
13-3	RR 78+39.30 11.0' LT	REMOVE EXISTING 12" CLAY PIPE TO CLEAR DS 13-3 AND FILL REMAINING PIPE WITH CONTROLLED LOW STRENGTH MATERIAL. INSTALL 3.6 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 12-5 WITH 215.0 LF OF 18" DIAMETER SICPP PIPE.	33.27	18" 29.55	18" 29.55	15" 29.89	18" 29.55	1.0						215.0			1			3.6							1			
13-4	RR 81+37.54 11.0' LT	INSTALL 4.1 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 13-3 WITH 298.5 LF OF 18" DIAMETER SICPP PIPE.	34.64		18" 30.45	15" 31.27	18" 30.45							298.5						4.1							1			
13-5	RR 81+75.20 11.0' LT	REMOVE PIPE TO CLEAR STRUCTURE. FILL REMAINING 12" HDPE PIPE WITH CONTROLLED LOW STRENGTH MATERIAL. INSTALL 4.1 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE ON EXISTING 12" DIAMETER HDPE PIPE. DRAIN TO DS 13-4 WITH 32.0 LF OF 18" DIAMETER SICPP PIPE.	34.81	12" 30.58 (EXIST.)			18" 30.58	0.7						32.0						4.1							1			
13-6	RR 78+30.00 11.0' RT	INSTALL 3.2 LF-OFFSET STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 13-3 WITH 22.0 LF OF 15" DIAMETER RCP PIPE.	33.24				15" 29.96			22.0														3.2				1	1
13-7	RR 81+37.54 11.0' RT	INSTALL 3.3 LF-OFFSET STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 13-4 WITH 20.0 LF OF 15" DIAMETER RCP PIPE.	34.72				15" 31.33			20.0														3.3				1	1
13-8	RR 81+70.0 12.4' RT	ABANDON EXISTING DI AND INSTALL CONCRETE PIPE PLUG IN THE OUTLET END OF THE EXISTING 12" CMP PIPE. (STRUCTURE MAY BE DEEP)						1.0									1												
14-1	RR 84+24.50 16.0' LT	INSTALL 20 LF-TRANSVERSE DRAIN ACROSS DRIVEWAY. DRAIN TO DS 14-2 USING 37.0 LF OF 8" DIAMETER NON-PERFORATED PVC PIPE.	36.00				34.85											20.0							37.0				
14-2	RR 84+72.00 13.7' LT	INSTALL 3.6 LF-TYPE B STRUCTURE WITH A #16 WELDED FRAME AND GRATE. DRAIN TO DS 14-4 WITH 40.0 LF OF 18" DIAMETER SICPP PIPE.	34.50		8" 32.00		18" 31.17							40.0								3.6						1	
14-3	RR 84+92.60 16.0' LT	INSTALL 20 LF- TRANSVERSE DRAIN ACROSS DRIVEWAY. DRAIN TO DS 14-2 USING 38.0 LF OF 8" DIAMETER NON-PERFORATED PVC PIPE.	33.40				31.60											24.0							38.0				
14-4	RR 85+15.00 11.0' LT	INSTALL 3.5 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 14-5 WITH 267.0 LF OF 18" DIAMETER SICPP PIPE.	32.99	15" 29.60	18" 29.37	8" 30.00	18" 29.37							267.0						3.5						1			
14-5	RR 87+85.00 11.0' LT	INSTALL 3.5 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 14-6 WITH 112.5 LF OF 18" DIAMETER SICPP PIPE.	28.40	15" 25.02	18" 24.78		18" 24.78							112.5						3.5						1			
14-6	RR 89+02.00 11.0' LT	INSTALL 3.5 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 15-1 WITH 103.0 LF OF 18" DIAMETER SICPP PIPE.	24.49		18" 20.91		18" 20.91							103.0						3.5						1			
14-7	RR 85+15.00 11.0' RT	INSTALL 3.3 LF-OFFSET STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 14-4 WITH 20.0 LF OF 15" DIAMETER RCP PIPE.	33.07				15" 29.66			20.0														3.3				1	1
14-8	RR 87+85.00 11.0' RT	INSTALL 3.3 LF-OFFSET STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 14-5 WITH 20.0 LF OF 15" DIAMETER RCP PIPE.	28.48				15" 25.08			20.0														3.3				1	1
SHEET TOTAL								2.7	0.0	82.0	0.0	0.0	0.0	1068.0	0.0	0.0	2	44.0	0.0	22.3	0.0	3.6	0.0	0.0	13.1	75.0	6.0	0.0	5.0	4.0



PIPE ENTRY CONVENTION



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AS-BUILT REVISIONS	DATE

ROCKLAND COUNTY HIGHWAY DEPARTMENT

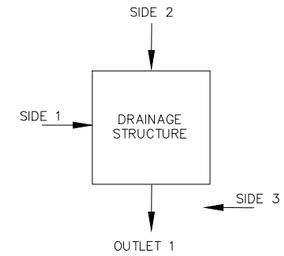
RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

DRAINAGE TABLE

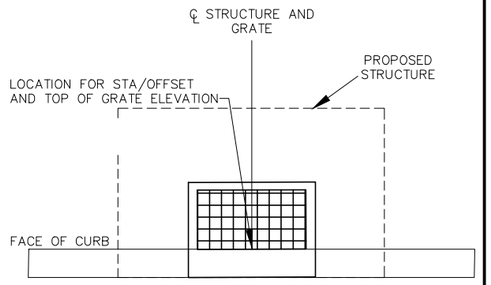
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DATE: NOV 2020	SCALE: NO SCALE	PROJ. NO.: 839.001.001
DWG No.: DST-09		SHEET 80 of 104

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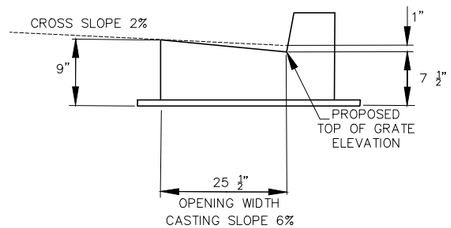
DS #	STATION / OFFSET (FT)	DESCRIPTION OF WORK	PROP T.G. ELEV.	SIDE 1 SIZE / IN ELEV.	SIDE 2 SIZE / IN ELEV.	SIDE 3 SIZE / IN ELEV.	OUTLET ELEV.	204.01	603.171316	603.6002	603.6003	603.6005	603.6009	603.9818	603.9824	603.9836	603.99050002	604.06	604.07260011	604.301873	604.320103	604.320216	604.4048	604.4060	604.50180010	655.0706	655.1203	655.1116	655.1202
								(CY)	(EA)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	EA	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(EA)	(EA)	(EA)	(EA)
15-1	RR 90+08.00 11.0' LT	INSTALL 3.5 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 15-3A WITH 89.0 LF OF 18" DIAMETER PIPE.	17.30	15" 13.90	18" 13.67		18" 13.67							89.0						3.5						1			
15-1A	RR 91+75.00 6.0' LT	INSTALL STORMWATER TREATMENT SYSTEM. SEE TABLE ON DWG NO. DST-01.	10.23		TBD		TBD																					
15-2	RR 90+19.10 17.6' LT	ABANDON EXISTING DRYWELL. SEE DWG DD-01 FOR DETAIL.	NA				NA																					
15-3	RR 91+00.00 11.0' LT	INSTALL 3.5 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 15-4 WITH 67.9 LF OF 18" DIAMETER SICPP PIPE.	11.51		18" 7.92		18" 7.92							67.9						3.5						1			
15-4	RR 91+71.18 11.0' LT	INSTALL 3.5 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 15-9 WITH 20.0 LF OF 18" DIAMETER RCP PIPE.	10.05	18" 6.43		18" 6.43	18" 6.43				20.0									3.5						1			
15-5	RR 91+87.85 11.0' LT	REMOVE EXISTING DI AND FILL THE EXISTING 18" RCP PIPE WITH CONTROLLED LOW STRENGTH MATERIAL. INSTALL STORMWATER TREATMENT SYSTEM, RR 91+87.85, 6.0' LT. SEE TABLE ON DWG NO. DST-01.	10.31		TBD		TBD	1.4									1											
15-6	RR 93+81.15 13.75' LT	INSTALL 3.4 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 15-8 WITH 12 LF OF 18" DIAMETER SICPP PIPE. (NEW LINE TO PUMP STATION?)	11.90				18" 8.40							12.0						3.4						1			
15-7	RR 94+02.5 29.18' LT	INSTALL 3.9 LF- TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 15-8 WITH 13.0 LF OF 18" DIAMETER SICPP PIPE.	12.57				18" 8.57							13.0						3.9						1			
15-8	RR 93+93.60 14.7' LT	PROVIDE INLET CONNECTIONS TO EXISTING MANHOLE FROM PROPOSED STRUCTURES DS 15-6 AND DS 15-7.		18" 8.30	18" 8.30														2									
15-9	RR 90+08.04 11.0' RT	INSTALL 3.3 LF-OFFSET STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 15-10 WITH 20.0 LF OF 18" DIAMETER RCP PIPE.	17.38				18" 13.96				20.0														3.3			1	1
15-10	RR 92+00.00 11.0' LT	INSTALL 3.5 LF-TYPE R STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 15-4 WITH 25.0 LF OF 18" DIAMETER RCP PIPE.	10.22				18" 6.60				25.0									3.5						1			
15-11	RR 97+71.18 11.0' RT	INSTALL 4.4 LF-OFFSET STRUCTURE WITH A TYPE F3 FRAME AND G3 GRATE. DRAIN TO DS 15-12 WITH 13.3 LF OF 18" DIAMETER RCP PIPE.	10.13			18" 6.38	18" 6.38				13.3														4.4			1	1
15-12	RR 91+87.85 14.0' RT	REMOVE EXISTING DI. INSTALL 5.1 LF-TYPE 48 MANHOLE WITH MANHOLE FRAME AND COVER ON EXISTING 18" RCP OUTLET PIPE TO RIVER. INSTALL CONCRET PIPE PLUG IN EXISTING 18" RCP PIPE	10.74		18" 5.05		18" 5.00 (EXIST.)															5.1							1
SHEET TOTAL								1.4	0.0	0.0	78.3	0.0	0.0	25.0	0.0	0.0	1	0.0	2.0	21.3	0.0	0.0	5.1	0.0	7.7	6.0	0.0	2.0	3.0



PIPE ENTRY CONVENTION



REFERENCE POINT FOR STRUCTURES IN CURBED LOCATIONS



TOP OF GRATE ELEVATION

C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
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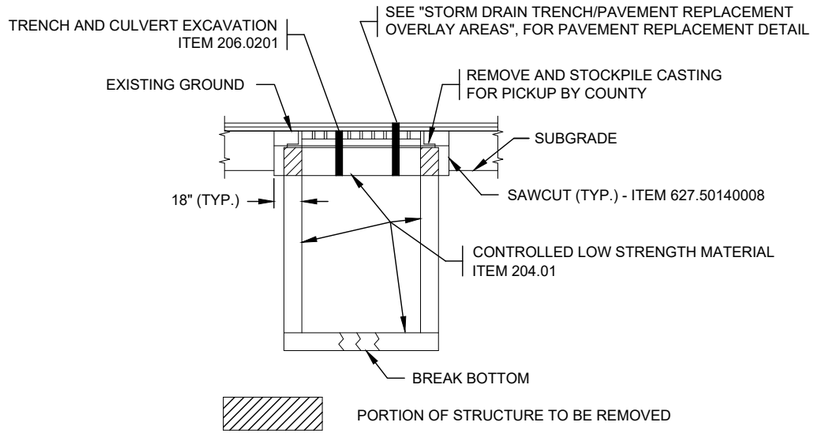
ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

DRAINAGE TABLE

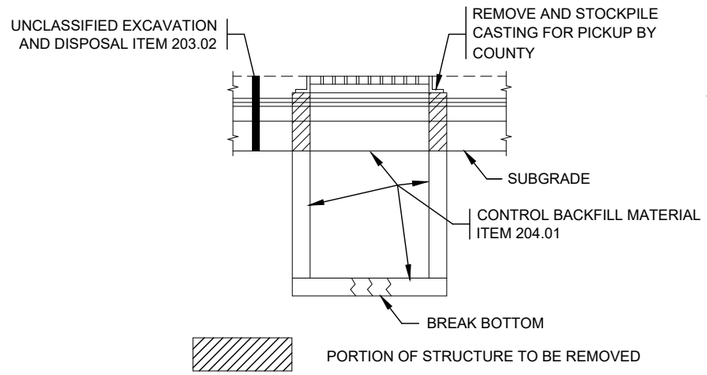
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		DATE: NOV 2020	SCALE: NO SCALE	PROJ. NO.: 839.001.001
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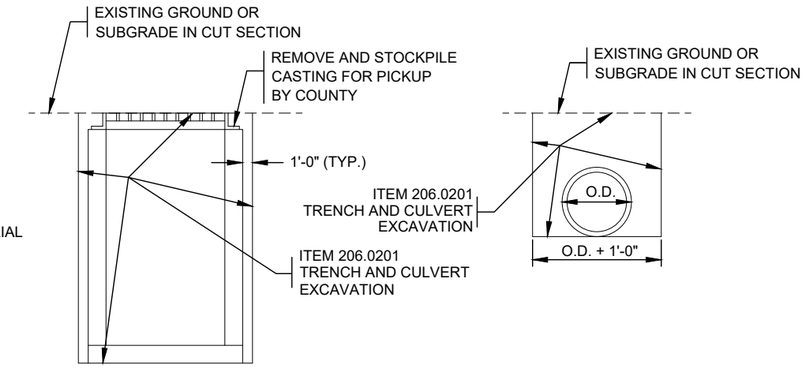
NOTE: SEE DRAINAGE AND UTILITY PLANS FOR LOCATIONS

ABANDON EXISTING DRAINAGE STRUCTURE OVERLAY AREAS



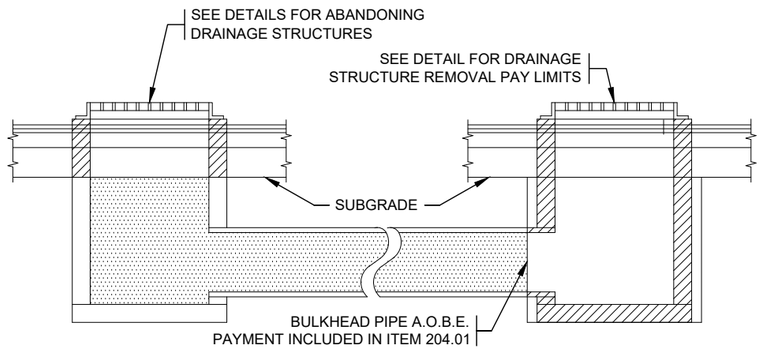
NOTE: SEE DRAINAGE AND UTILITY PLANS FOR LOCATIONS

ABANDON EXISTING DRAINAGE STRUCTURE FULL DEPTH PAVEMENT AREAS



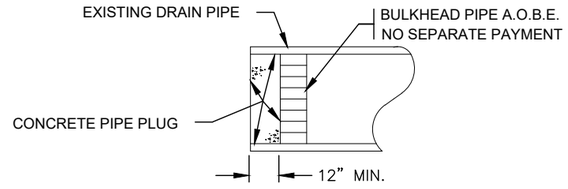
NOTE: BACKFILL WITH SUITABLE MATERIAL A.O.B.E. NO ADDITIONAL PAYMENT WILL BE MADE, COST TO BE INCLUDED UNDER ITEM 206.0201 - TRENCH AND CULVERT EXCAVATION.

DRAINAGE STRUCTURE/PIPE REMOVAL PAY LIMITS



NOTE: SEE DRAINAGE PLANS AND TABLES FOR LOCATIONS

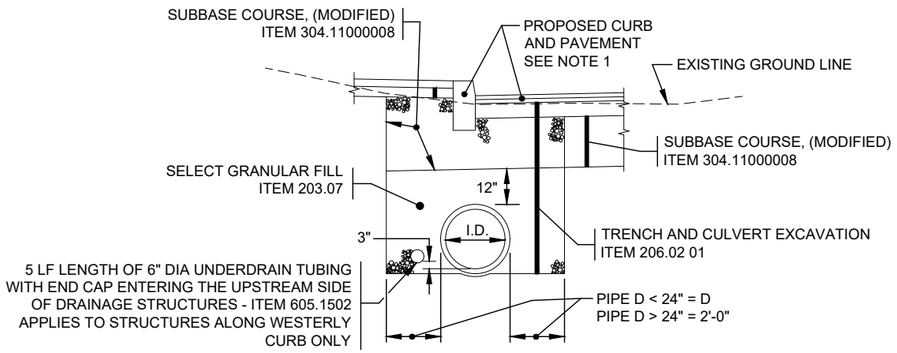
FILL AND ABANDON DRAINAGE FACILITIES



NOTE: 1. SEE DRAINAGE AND UTILITY PLANS FOR LOCATIONS. CONSTRUCTED OF CONCRETE BRICK AND MORTAR.

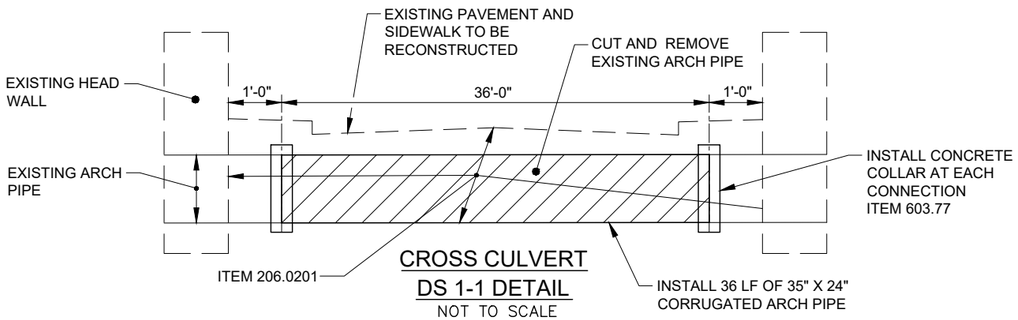
2. BULKHEAD FOR PIPE SHALL BE A.O.B.E. PAYMENT WILL BE MADE UNDER ITEM 603.99050002.

CONCRETE PIPE PLUG ITEM 603.99050002



STORM DRAIN TRENCH UNDERDRAIN STUB & PAVEMENT RESTORATION

NOTE:
1. IN NON-RECONSTRUCTION LOCATIONS, PLACE A MINIMUM OF 6" OF ITEM 402.198903 FOR PAVEMENT RESTORATION.



CROSS CULVERT DS 1-1 DETAIL

NOT TO SCALE

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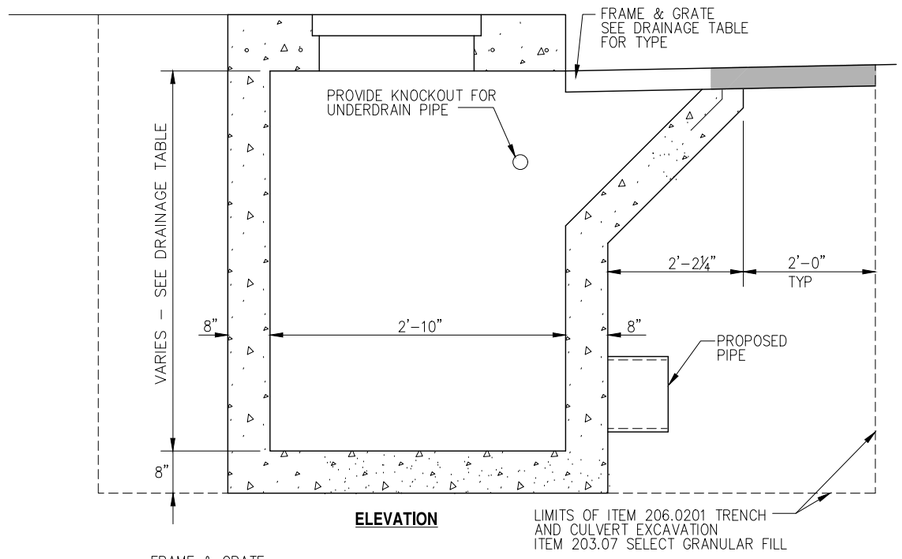
ROCKLAND COUNTY HIGHWAY DEPARTMENT

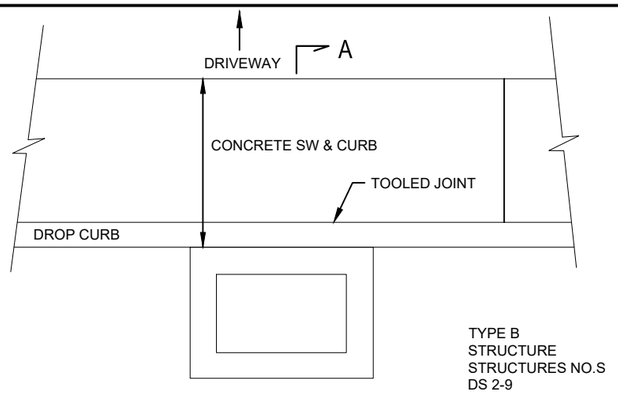
RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
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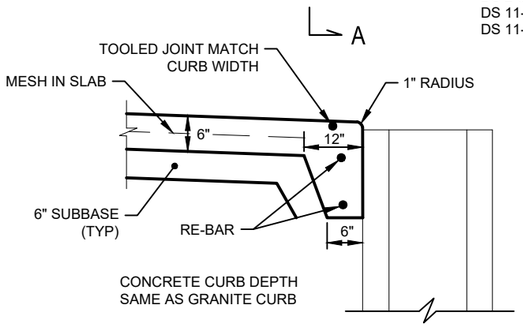
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		DATE: NOV 2020	SCALE: NONE	PROJ. NO.: 839.001.001
		DWG No.: DD-01		SHEET 82 of 104

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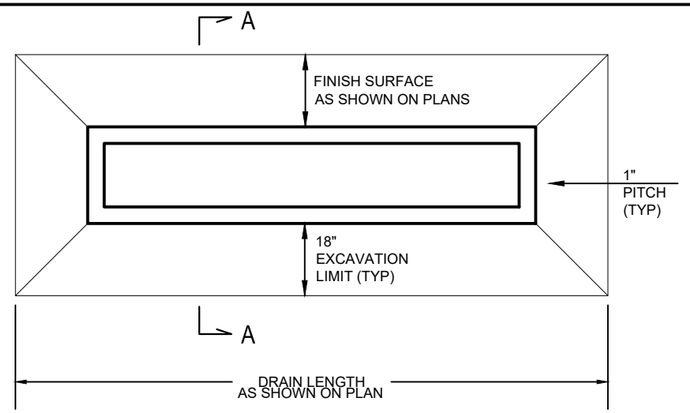




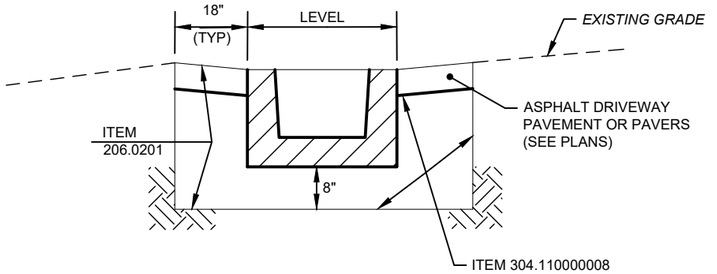
SECTION A-A

INTEGRAL SIDEWALK AND CONCRETE CURB

NOT TO SCALE



PLAN

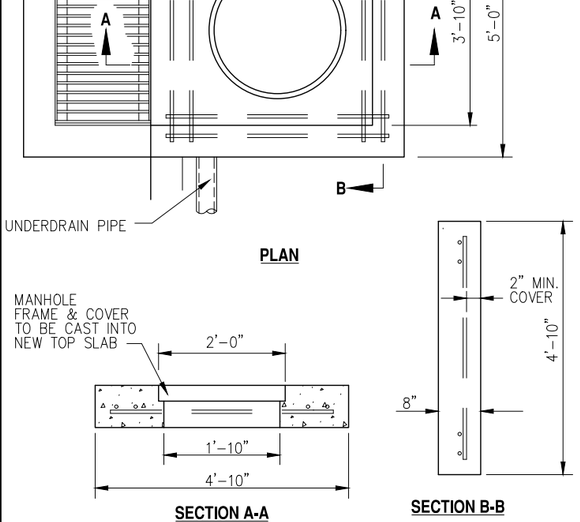


TRANSVERSE INTERCEPTOR INSTALLATION

NOT TO SCALE

NOTES:

1. FORM & POUR END WALLS ON INTERCEPTOR. WALL THICKNESS AND REINFORCING SHALL BE SAME AS INTERCEPTOR UNITS. USE U-SHAPE #4 BARS EPOXIED IN DRILLED DOWEL HOLE IN END OF UNITS. ONE END SHALL BE FORMED TO INSTALL A 8 INCH DIAMETER PVC NON-PERFORATED PIPE. COST OF END CAPS SHALL BE INCLUDED IN BID PRICE FOR ITEM 604.06.
2. PVC FITTINGS SHALL BE USED TO CONNECT INTERCEPTOR DRAIN TO THE DISCHARGE STRUCTURE. COST SHALL BE INCLUDED IN BID PRICE FOR ITEM 605.16030008.
3. FORM A SLOPED INVERT IN THE BOTTOM OF THE DRAIN TO PROVIDE A 1/8" PER FOOT SLOPE TO THE DISCHARGE END OF DRAIN.
4. SEE NYSDOT STANDARD SHEET 604-01 FOR ADDITIONAL DIMENSIONS.

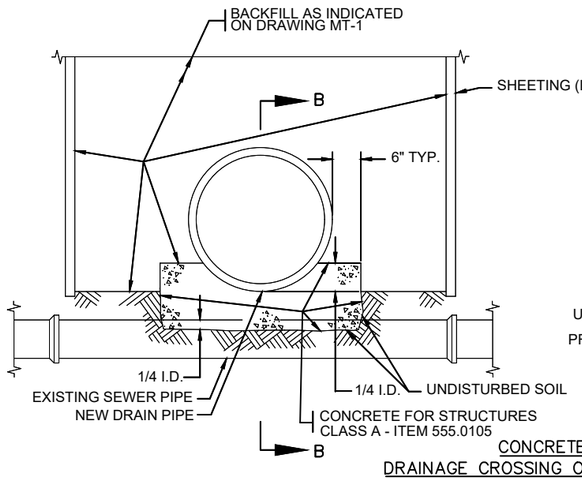


PLAN

SECTION A-A

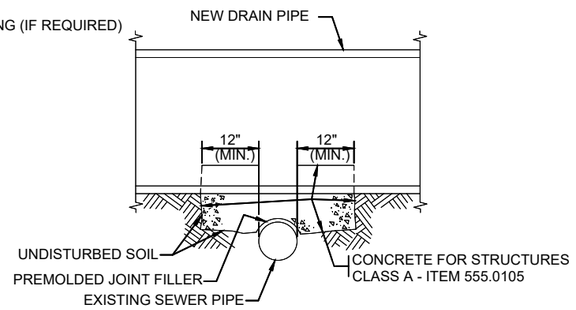
SECTION B-B

PRECAST CATCH BASIN DETAIL - ITEM 604.50180010



CONCRETE CRADLE
DRAINAGE CROSSING OVER SANITARY SEWER

NTS



SECTION B–B

NTS

NOTE: 1. EXCAVATION SHALL BE PAID UNDER ITEM 206.0201, TRENCH AND CULVERT EXCAVATION.

2. THE CONCRETE CRADLE SHALL ONLY BE CONSTRUCTED WHEN THE DISTANCE BETWEEN PIPE OUTSIDE SURFACES IS LESS THAN 6 INCHES. THE CONTRACTOR SHALL EXCAVATE, BY HAND, WHERE CONSTRUCTION OF A CONCRETE CRADLE IS INDICATED ON THE PLANS OR WHEN ORDERED BY THE ENGINEER TO LOCATE EXISTING FACILITIES.

C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
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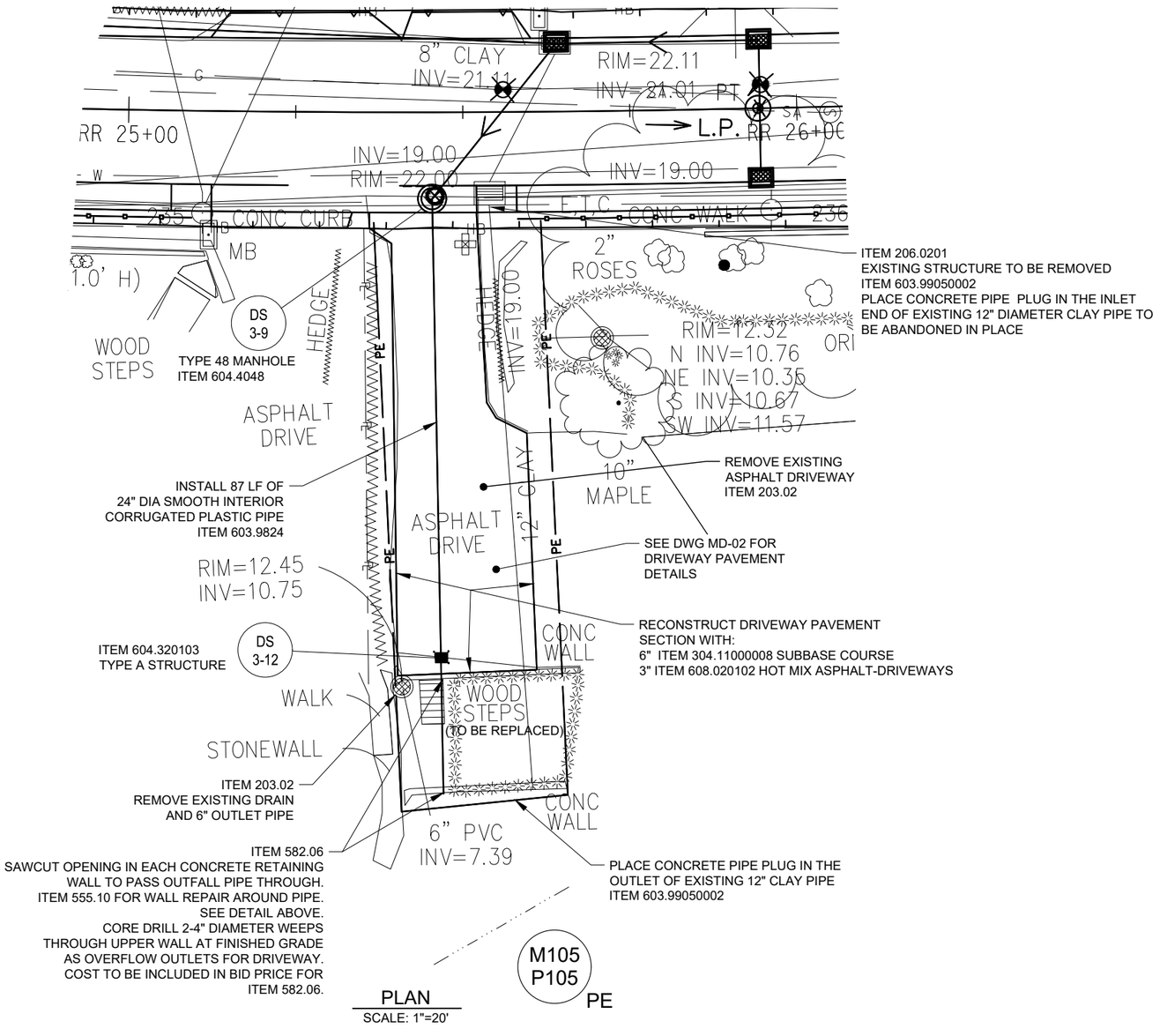
RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE

TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
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DRAINAGE DETAILS

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ITEM 206.0201
EXISTING STRUCTURE TO BE REMOVED
ITEM 603.99050002
PLACE CONCRETE PIPE PLUG IN THE INLET END OF EXISTING 12" DIAMETER CLAY PIPE TO BE ABANDONED IN PLACE

INSTALL 87 LF OF
24" DIA SMOOTH INTERIOR
CORRUGATED PLASTIC PIPE
ITEM 603.9824

REMOVE EXISTING
ASPHALT DRIVEWAY
ITEM 203.02

SEE DWG MD-02 FOR
DRIVEWAY PAVEMENT
DETAILS

RECONSTRUCT DRIVEWAY PAVEMENT
SECTION WITH:
6" ITEM 304.11000008 SUBBASE COURSE
3" ITEM 608.020102 HOT MIX ASPHALT-DRIVEWAYS

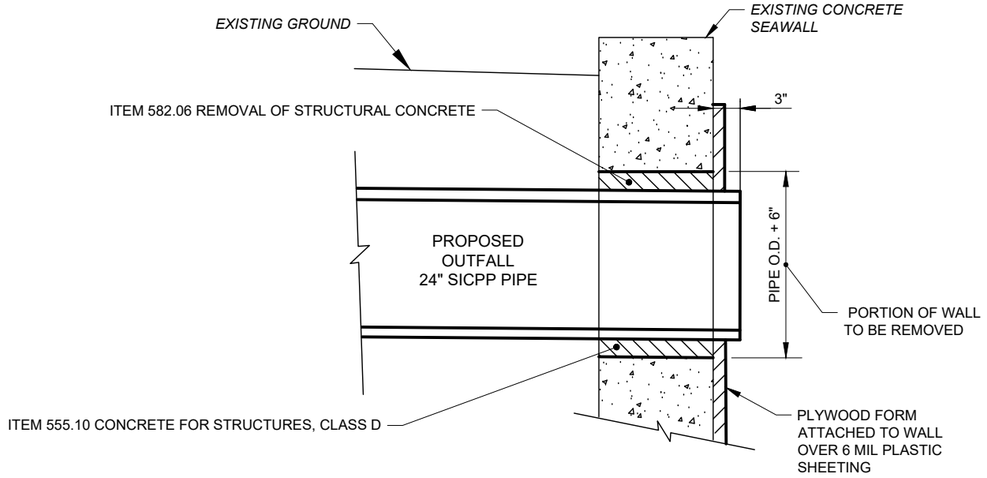
ITEM 604.320103
TYPE A STRUCTURE

ITEM 203.02
REMOVE EXISTING DRAIN
AND 6" OUTLET PIPE

ITEM 582.06
SAWCUT OPENING IN EACH CONCRETE RETAINING WALL TO PASS OUTFALL PIPE THROUGH.
ITEM 555.10 FOR WALL REPAIR AROUND PIPE.
SEE DETAIL ABOVE.
CORE DRILL 2-4" DIAMETER WEEPS THROUGH UPPER WALL AT FINISHED GRADE AS OVERFLOW OUTLETS FOR DRIVEWAY.
COST TO BE INCLUDED IN BID PRICE FOR ITEM 582.06.

PLACE CONCRETE PIPE PLUG IN THE
OUTLET OF EXISTING 12" CLAY PIPE
ITEM 603.99050002

REZAK OUTFALL
STA RR 25+45



CONCRETE WALL REMOVAL AND REPAIR
NOT TO SCALE

NOTES:

1. WORK SHALL BE DONE DURING PERIOD OF LOW TIDE TO MINIMIZE CONTACT OR POSSIBLE SPILLAGE OF CONCRETE MATERIAL AND KEEP DEBRIS FROM ENTERING THE HUDSON RIVER.
2. OUTFALL PIPE WILL CONTINUE THROUGH UPPER RETAINING TO THE SEAWALL. CONCRETE REMOVAL AND REPAIR ITEMS ARE THE SAME FOR LOWER WALL.
3. REMOVE PLYWOOD FORM AND PLASTIC SHEETING AFTER PATCH HAS CURED FOR 24 HOURS. PLASTIC SHEETING REQUIRED AT SEAWALL ONLY.
4. COST OF SAWCUT, CLASS D CONCRETE REPAIR, REINFORCEMENT STEEL AND CORE DRILLING SHALL BE INCLUDED IN BID PRICE FOR ITEM 582.06.





20 0 20 40Ft.
20'

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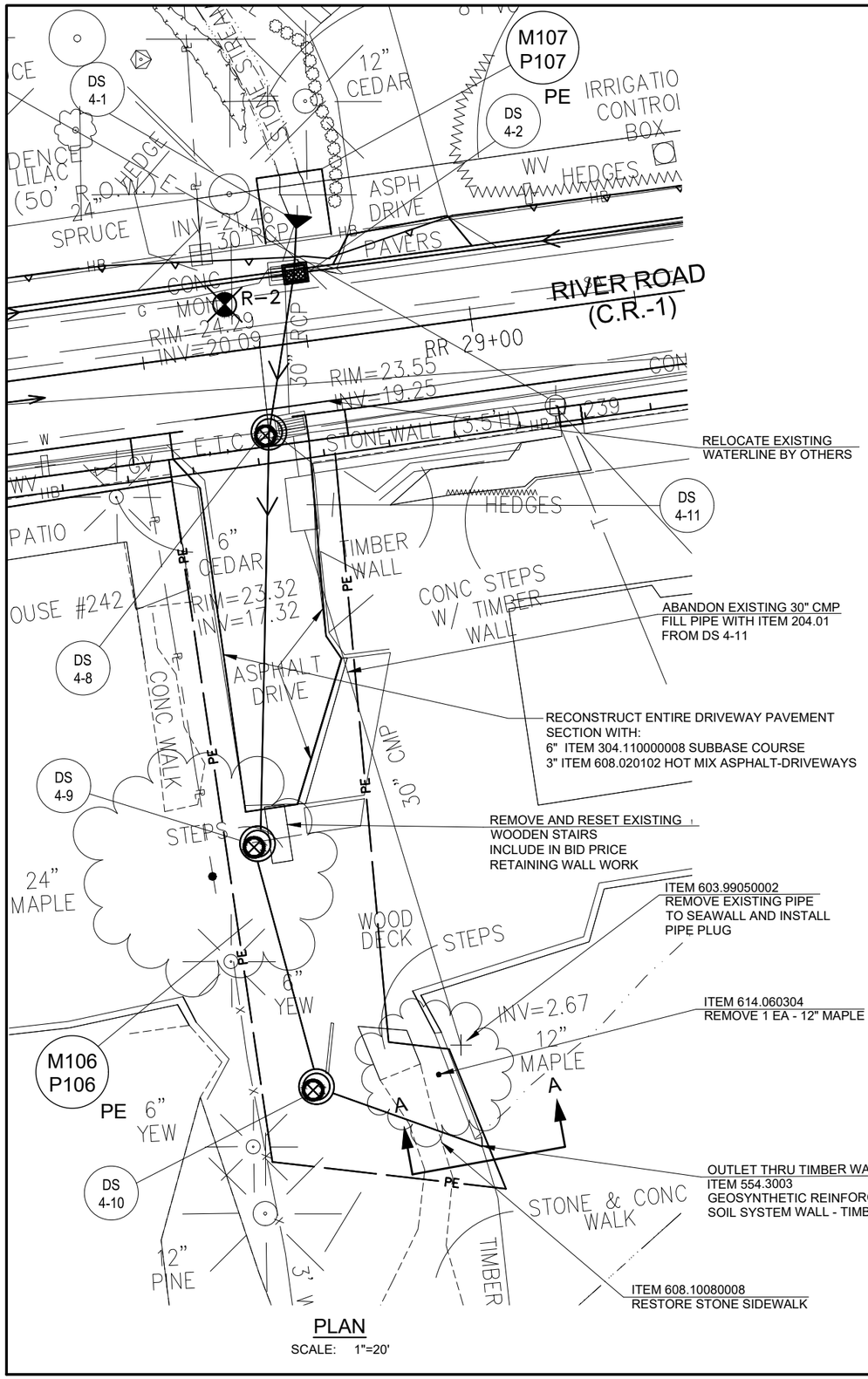
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DRAINAGE OUTFALL DETAIL
STA RR 25+45

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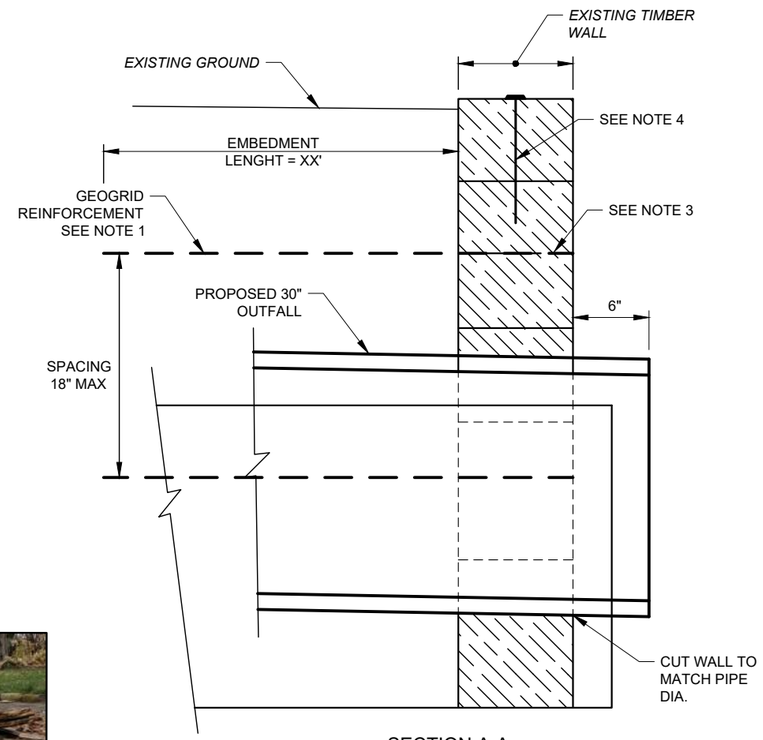


PLAN

SCALE: 1"=20'







SECTION A-A

REMOVE AND REPLACE RETAINING WALL

NOT TO SCALE

NOTES:

1. PRIMARY REINFORCEMENT SHALL BE GEOGRID MEETING REQUIREMENTS OF SPECIFICATION SECTIONS 703-07. GEOTEXTILE OPTION WILL NOT BE ACCEPTED.
2. WALL TO BE REPAIRED WITH LIKE MATERIALS TO ITS ORIGINAL ELEVATION AND LOCATION. AS DIRECTED BY ENGINEER.
3. SECURE GEOGRID TO TIMBER WITH 2" STAINLESS STEEL OR GALVANIZED ROOFING STAPLES. PLACE FASTENERS EVERY 3".
4. TIMBERS SHALL BE SPIKED TOGETHER WITH 3/8" X 8" GALVANIZED STEEL SPIKES. PLACED 1'-0" FROM END OF TIMBERS AND 3'-0" O.C. MAXIMUM.
5. PLACE ALL REINFORCEMENT GRIDS PERPENDICULAR TO WALL.
6. THE MAXIMUM COMPACTED THICKNESS OF BACKFILL SHALL BE 6".
7. REMOVAL AND DISPOSAL OF EXISTING TIMBER WALL IS INCLUDED IN ITEM 554.3003.

20 0 20 40Ft.
20'

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DRAINAGE OUTFALL DETAIL
STA RR 28+60

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		DATE: NOV 2020	SCALE: 1"=20'	PROJ. NO.: 839.001.001
		DWG No.: DOF-02		SHEET 85 of 104

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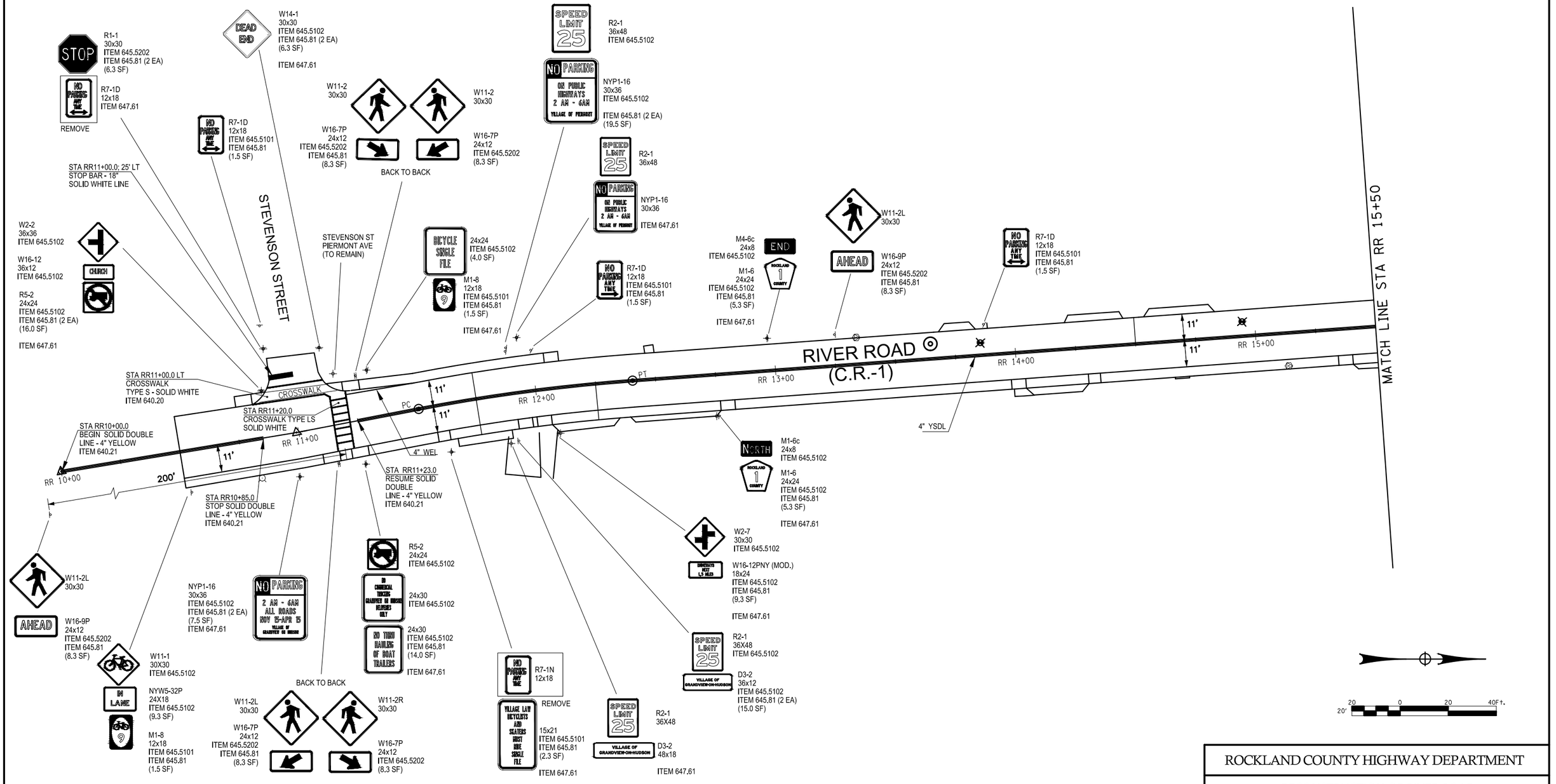


TABLE OF QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY
645.5101	GROUND MOUNTED SIGN PANELS WITHOUT Z-BARS	7.5 SF
645.5102	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS	95.4 SF
645.5202	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS, HIGH VISIBILITY SHEETING	56.1 SF
645.81	TYPE A SIGN POSTS	20 EA
647.61	REMOVE AND DISPOSE SIGNS, GROUND MOUNTED TYPE A SIGN SUPPORTS AND FOUNDATIONS-SIZE I (UNDER 30 SF)	12 EA

NOTE: QUANTITIES FOR THIS SHEET ONLY

PAVEMENT MARKING KEY

ITEM NO.	TYPE	DESCRIPTION
640.20		CROSSWALK LINE - 12" WHITE
640.20	WSBL	STOP LINE-18" WHITE
640.20	WEL	WHITE EDGE LINE - 4" WHITE
640.21	YSDL	DOUBLE SOLID LINE-4" YELLOW

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AS-BUILT REVISIONS	DATE

ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

SIGNING AND PAVEMENT MARKINGS
STA RR 10+00 TO STA RR 15+50

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: SPM-01		SHEET 86 of 104

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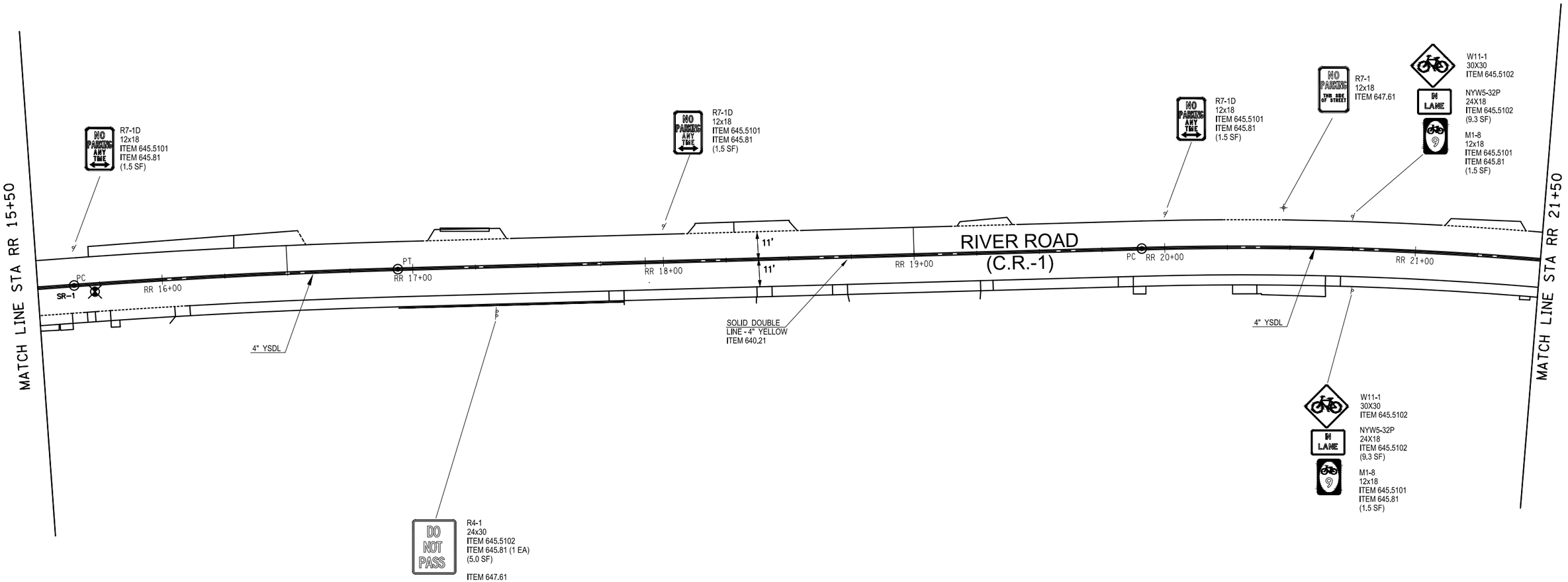


TABLE OF QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY
645.5101	GROUND MOUNTED SIGN PANELS WITHOUT Z-BARS	7.5 SF
645.5102	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS	23.6 SF
645.5202	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS, HIGH VISIBILITY SHEETING	0.0 SF
645.81	TYPE A SIGN POSTS	6 EA
647.61	REMOVE AND DISPOSE SIGNS, GROUND MOUNTED TYPE A SIGN SUPPORTS AND FOUNDATIONS-SIZE I (UNDER 30 SF)	2 EA

NOTE: QUANTITIES FOR THIS SHEET ONLY

PAVEMENT MARKING KEY

ITEM NO.	TYPE	DESCRIPTION
640.20	WSBL	STOP LINE-18" WHITE
640.20	WEL	WHITE EDGE LINE - 4" WHITE
640.21	YSDL	DOUBLE SOLID LINE-4" YELLOW

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ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

SIGNING AND PAVEMENT MARKING
STA RR 15+50 TO STA RR 21+50

AS-BUILT REVISIONS	DATE		
		DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
		DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
		DWG No.: SPM-02		SHEET 87 of 104

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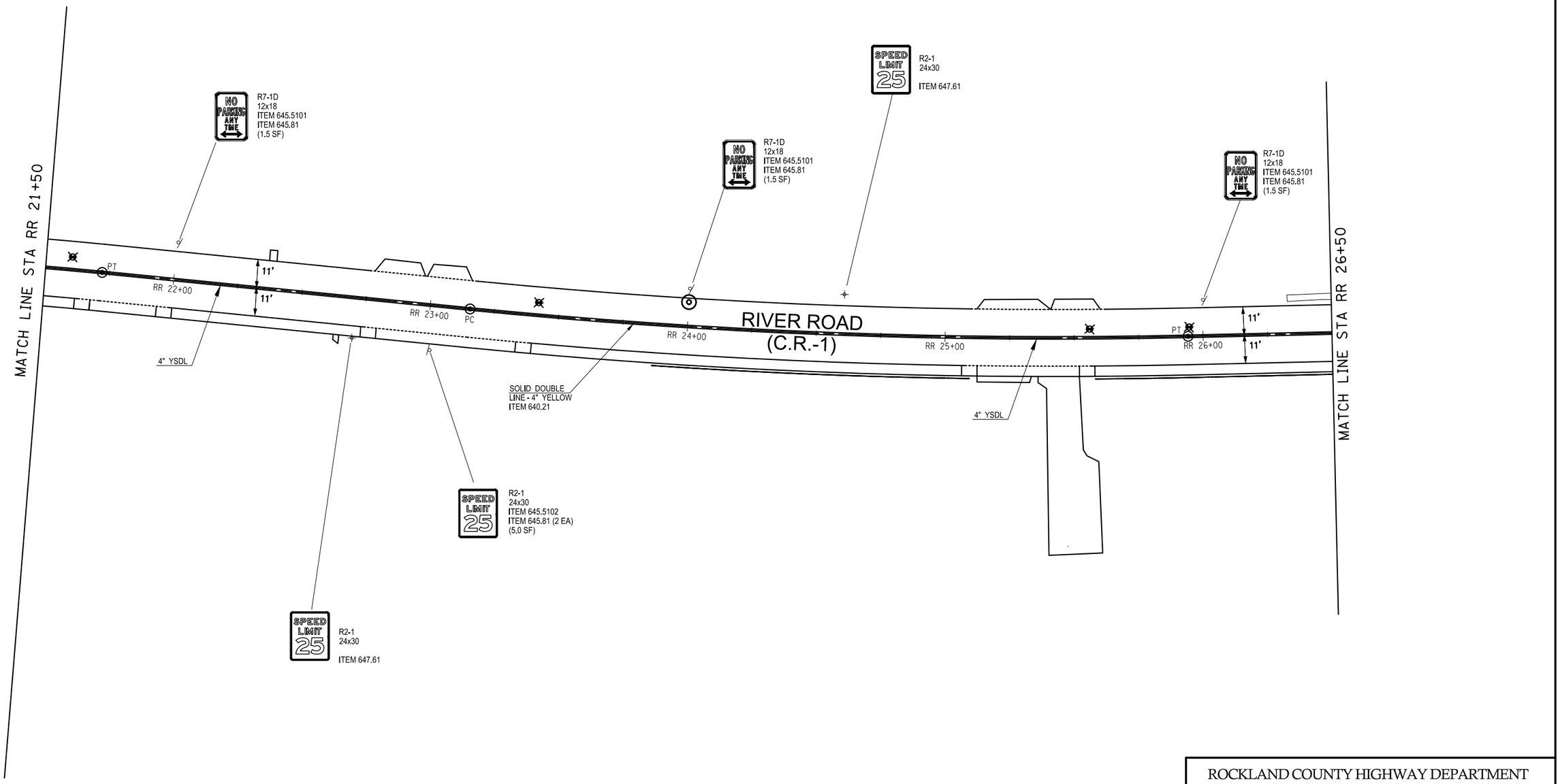


TABLE OF QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY
645.5101	GROUND MOUNTED SIGN PANELS WITHOUT Z-BARS	4.5 SF
645.5102	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS	5.0 SF
645.5202	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS, HIGH VISIBILITY SHEETING	0.0 SF
645.81	TYPE A SIGN POSTS	5 EA
647.61	REMOVE AND DISPOSE SIGNS, GROUND MOUNTED TYPE A SIGN SUPPORTS AND FOUNDATIONS-SIZE I (UNDER 30 SF)	2 EA

NOTE: QUANTITIES FOR THIS SHEET ONLY

PAVEMENT MARKING KEY

ITEM NO.	TYPE	DESCRIPTION
640.20	WEL	WHITE EDGE LINE - 4" WHITE
640.21	YSDL	DOUBLE SOLID LINE-4" YELLOW

20 0 20 40Ft.
20'

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ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

SIGNING AND PAVEMENT MARKINGS
STA RR 21+50 TO STA RR 26+50

AS-BUILT REVISIONS	DATE

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: SPM-03		SHEET 88 of 104

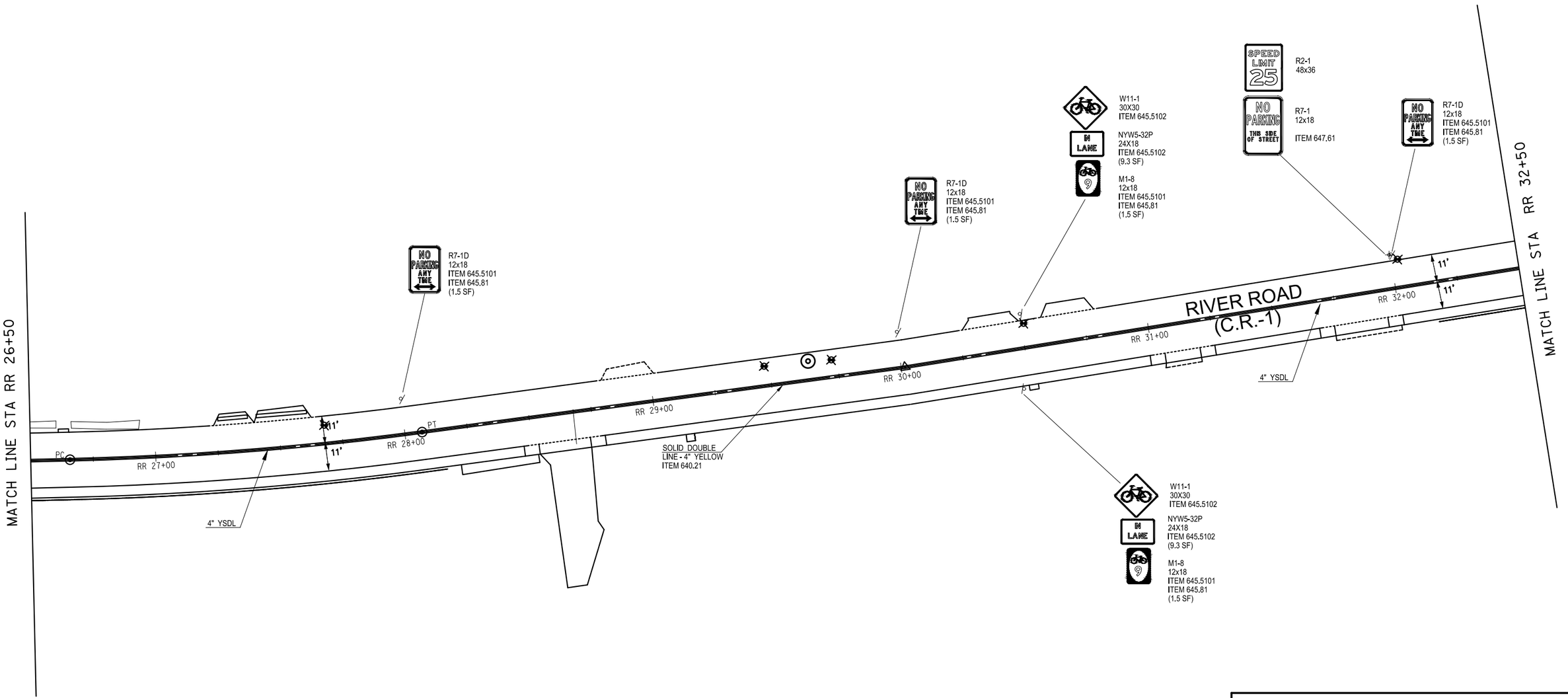


TABLE OF QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY
645.5101	GROUND MOUNTED SIGN PANELS WITHOUT Z-BARS	7.5 SF
645.5102	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS	18.6 SF
645.5202	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS, HIGH VISIBILITY SHEETING	0.0 SF
645.81	TYPE A SIGN POSTS	5 EA
647.61	REMOVE AND DISPOSE SIGNS, GROUND MOUNTED TYPE A SIGN SUPPORTS AND FOUNDATIONS-SIZE I (UNDER 30 SF)	1 EA

NOTE: QUANTITIES FOR THIS SHEET ONLY

PAVEMENT MARKING KEY

ITEM NO.	TYPE	DESCRIPTION
640.20 640.21	WEL YSDL	WHITE EDGE LINE - 4" WHITE DOUBLE SOLID LINE-4" YELLOW

20 0 20 40Ft.
20'

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ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

SIGNING AND PAVEMENT MARKINGS
STA RR 26+50 TO STA RR 32+50

AS-BUILT REVISIONS	DATE		
		DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
		DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
		DWG No.: SPM-04		SHEET 89 of 104

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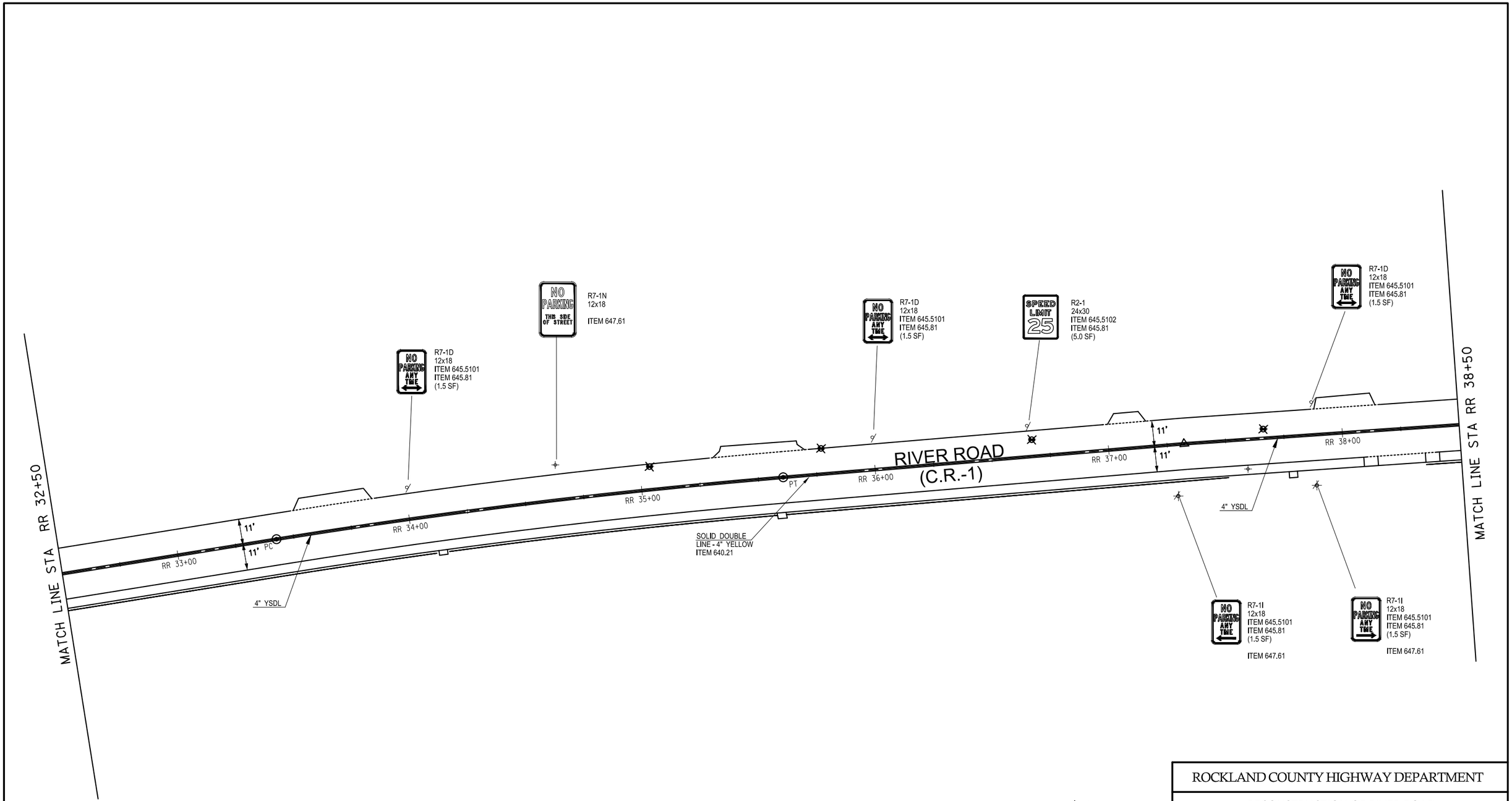


TABLE OF QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY
645.5101	GROUND MOUNTED SIGN PANELS WITHOUT Z-BARS	4.5 SF
645.5102	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS	5.0 SF
645.5202	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS, HIGH VISIBILITY SHEETING	0.0 SF
645.81	TYPE A SIGN POSTS	4 EA
647.61	REMOVE AND DISPOSE SIGNS, GROUND MOUNTED TYPE A SIGN SUPPORTS AND FOUNDATIONS-SIZE I (UNDER 30 SF)	3 EA

NOTE: QUANTITIES FOR THIS SHEET ONLY

PAVEMENT MARKING KEY

ITEM NO.	TYPE	DESCRIPTION
640.20 640.21	WEL YSDL	WHITE EDGE LINE - 4" WHITE DOUBLE SOLID LINE-4" YELLOW

20 0 20 40F+.
20'

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AS-BUILT REVISIONS	DATE

ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

SIGNING AND PAVEMENT MARKINGS
STA RR 32+50 TO STA RR 38+50

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: SPM-05		SHEET 90 of 104

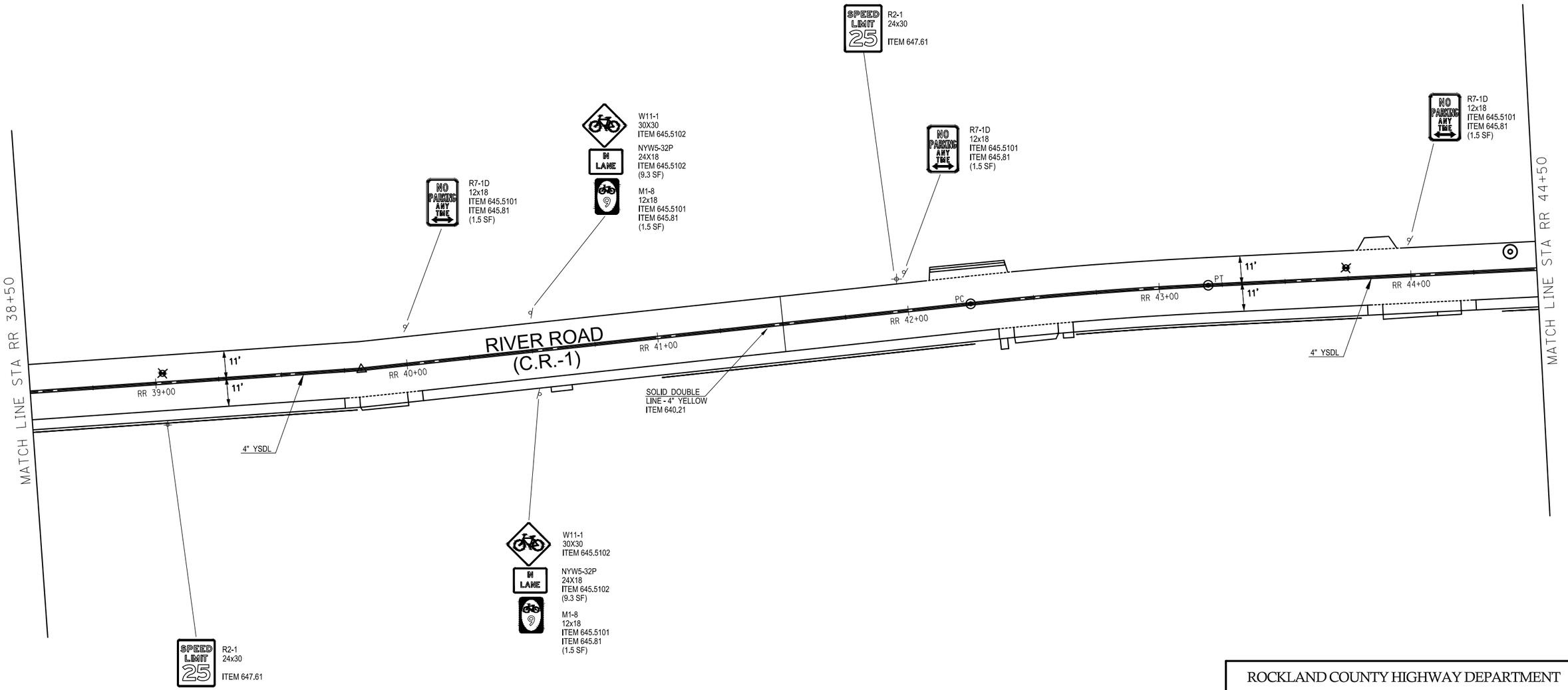


TABLE OF QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY
645.5101	GROUND MOUNTED SIGN PANELS WITHOUT Z-BARS	7.5 SF
645.5102	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS	18.6 SF
645.5202	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS, HIGH VISIBILITY SHEETING	0.0 SF
645.81	TYPE A SIGN POSTS	5 EA
647.61	REMOVE AND DISPOSE SIGNS, GROUND MOUNTED TYPE A SIGN SUPPORTS AND FOUNDATIONS-SIZE I (UNDER 30 SF)	2 EA

NOTE: QUANTITIES FOR THIS SHEET ONLY

PAVEMENT MARKING KEY

ITEM NO.	TYPE	DESCRIPTION
640.20 640.21	WEL YSDL	WHITE EDGE LINE - 4" WHITE DOUBLE SOLID LINE-4" YELLOW

20 0 20 40Ft.
20'

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RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
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COUNTY OF ROCKLAND

SIGNING AND PAVEMENT MARKINGS
STA RR 38+50 TO STA RR 44+50

AS-BUILT REVISIONS	DATE		
		DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
		DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
		DWG No.: SPM-06		SHEET 91 of 104

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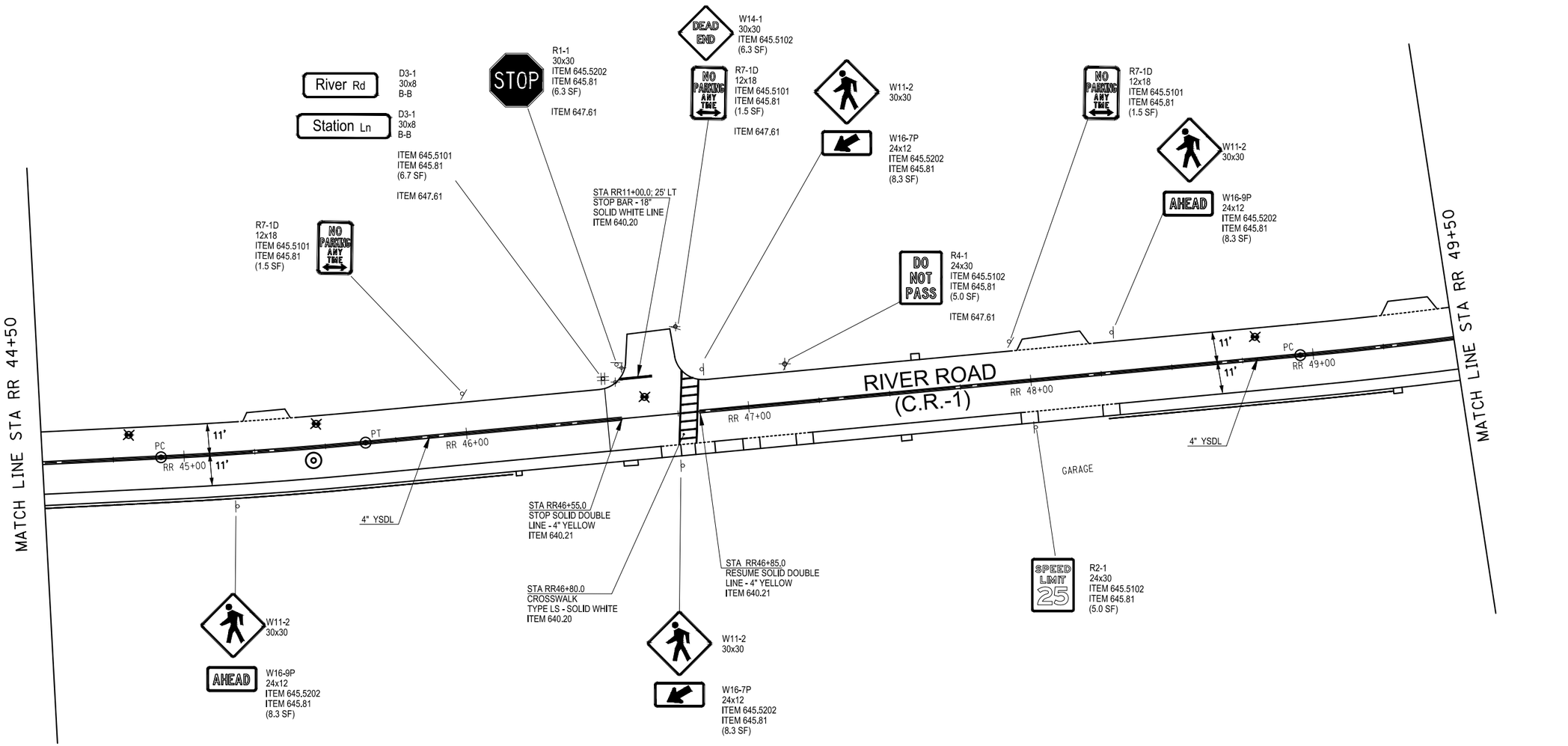


TABLE OF QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY
645.5101	GROUND MOUNTED SIGN PANELS WITHOUT Z-BARS	11.2 SF
645.5102	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS	16.3 SF
645.5202	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS, HIGH VISIBILITY SHEETING	39.5 SF
645.81	TYPE A SIGN POSTS	11 EA
647.61	REMOVE AND DISPOSE SIGNS, GROUND MOUNTED TYPE A SIGN SUPPORTS AND FOUNDATIONS-SIZE I (UNDER 30 SF)	4 EA

NOTE: QUANTITIES FOR THIS SHEET ONLY

PAVEMENT MARKING KEY

ITEM NO.	TYPE	DESCRIPTION
640.20	WSBL	STOP LINE-18" WHITE
640.20		CROSSWALK-12" WHITE
640.21	YSDL	DOUBLE SOLID LINE-4" YELLOW

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ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

SIGNING AND PAVEMENT MARKINGS
STA RR 44+50 TO STA RR 49+50

AS-BUILT REVISIONS	DATE		
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		DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
		DWG No.: SPM-07		SHEET 92 of 104

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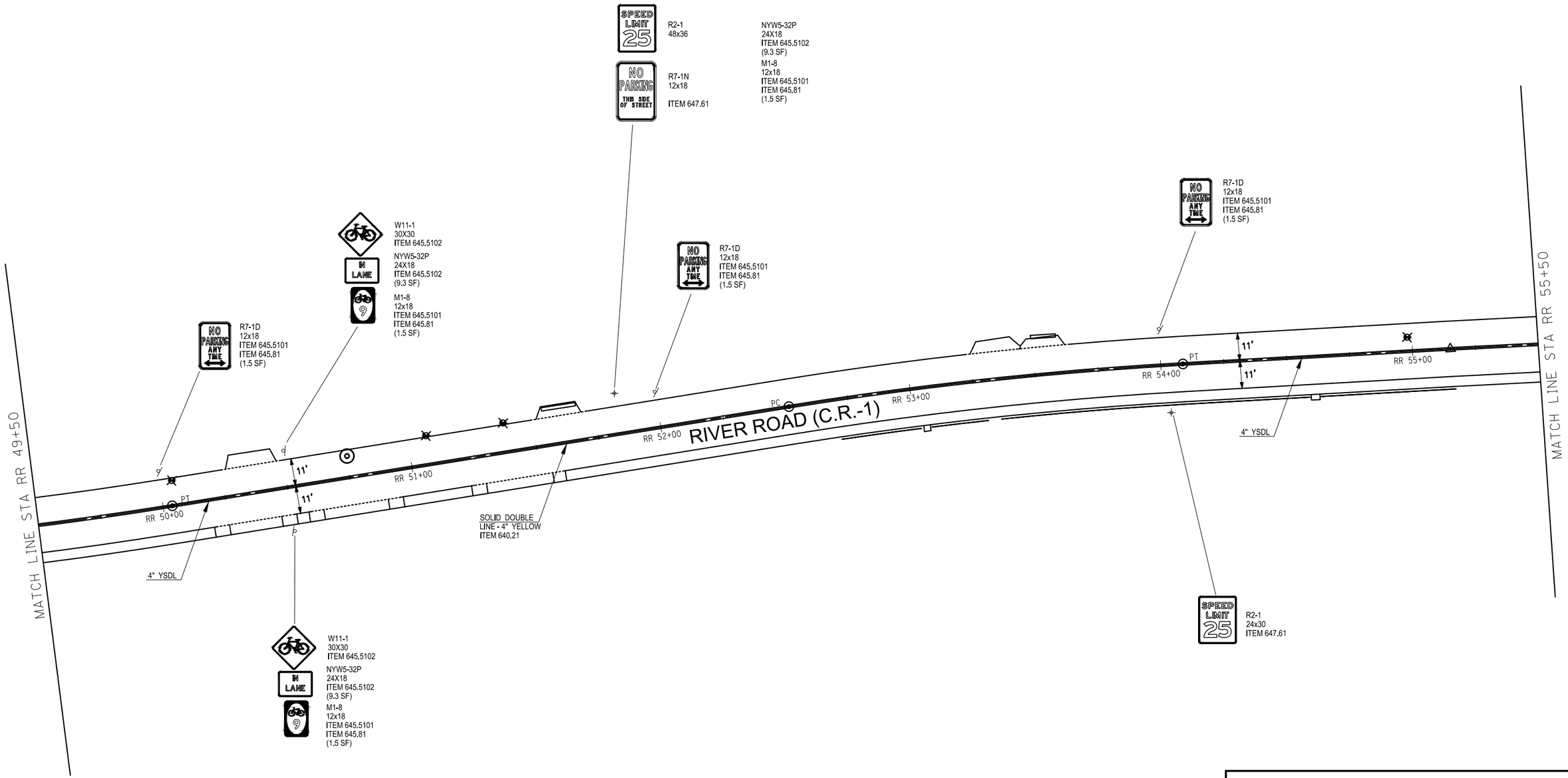


TABLE OF QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY
645.5101	GROUND MOUNTED SIGN PANELS WITHOUT Z-BARS	7.5 SF
645.5102	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS	18.6 SF
645.5202	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS, HIGH VISIBILITY SHEETING	0.0 SF
645.81	TYPE A SIGN POSTS	6 EA
647.61	REMOVE AND DISPOSE SIGNS, GROUND MOUNTED TYPE A SIGN SUPPORTS AND FOUNDATIONS-SIZE I (UNDER 30 SF)	2 EA

NOTE: QUANTITIES FOR THIS SHEET ONLY

PAVEMENT MARKING KEY

ITEM NO.	TYPE	DESCRIPTION
640.20 640.21	WEL YSDL	WHITE EDGE LINE - 4" WHITE DOUBLE SOLID LINE-4" YELLOW

20 0 20 40Ft.
20'

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ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

SIGNING AND PAVEMENT MARKINGS
STA RR 49+50 TO STA RR 55+50

AS-BUILT REVISIONS	DATE

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: SPM-08		SHEET 93 of 104

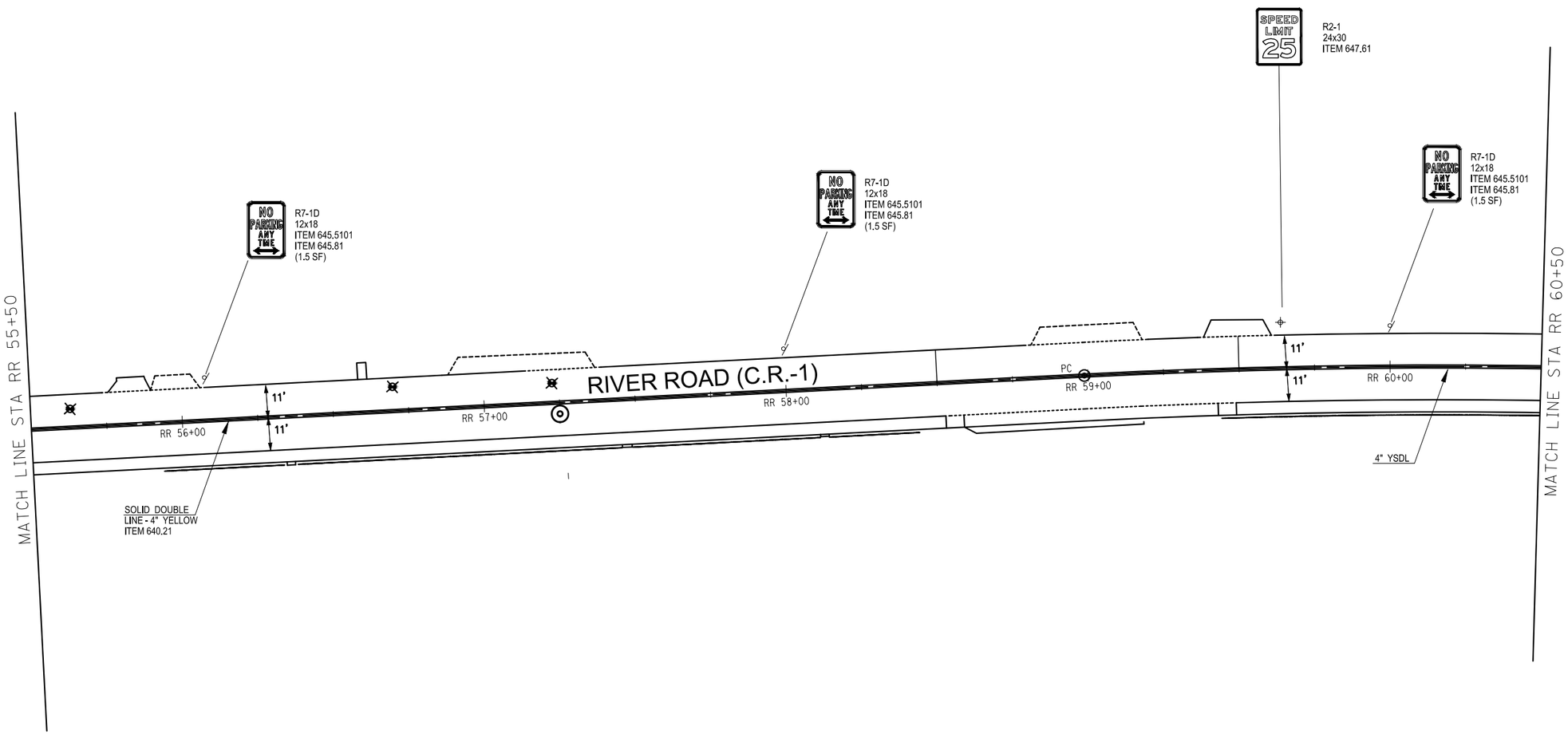


TABLE OF QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY
645.5101	GROUND MOUNTED SIGN PANELS WITHOUT Z-BARS	4.5 SF
645.5102	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS	0.0 SF
645.5202	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS, HIGH VISIBILITY SHEETING	0.0 SF
645.81	TYPE A SIGN POSTS	3 EA
647.61	REMOVE AND DISPOSE SIGNS, GROUND MOUNTED TYPE A SIGN SUPPORTS AND FOUNDATIONS-SIZE I (UNDER 30 SF)	1 EA

NOTE: QUANTITIES FOR THIS SHEET ONLY

PAVEMENT MARKING KEY

ITEM NO.	TYPE	DESCRIPTION
640.20 640.21	WEL YSDL	WHITE EDGE LINE - 4" WHITE DOUBLE SOLID LINE-4" YELLOW

20' 0 20 40Ft.

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RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

SIGNING AND PAVEMENT MARKINGS
STA RR 55+50 TO STA RR 60+50

AS-BUILT REVISIONS	DATE		
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		DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
		DWG No.: SPM-09		SHEET 94 of 104

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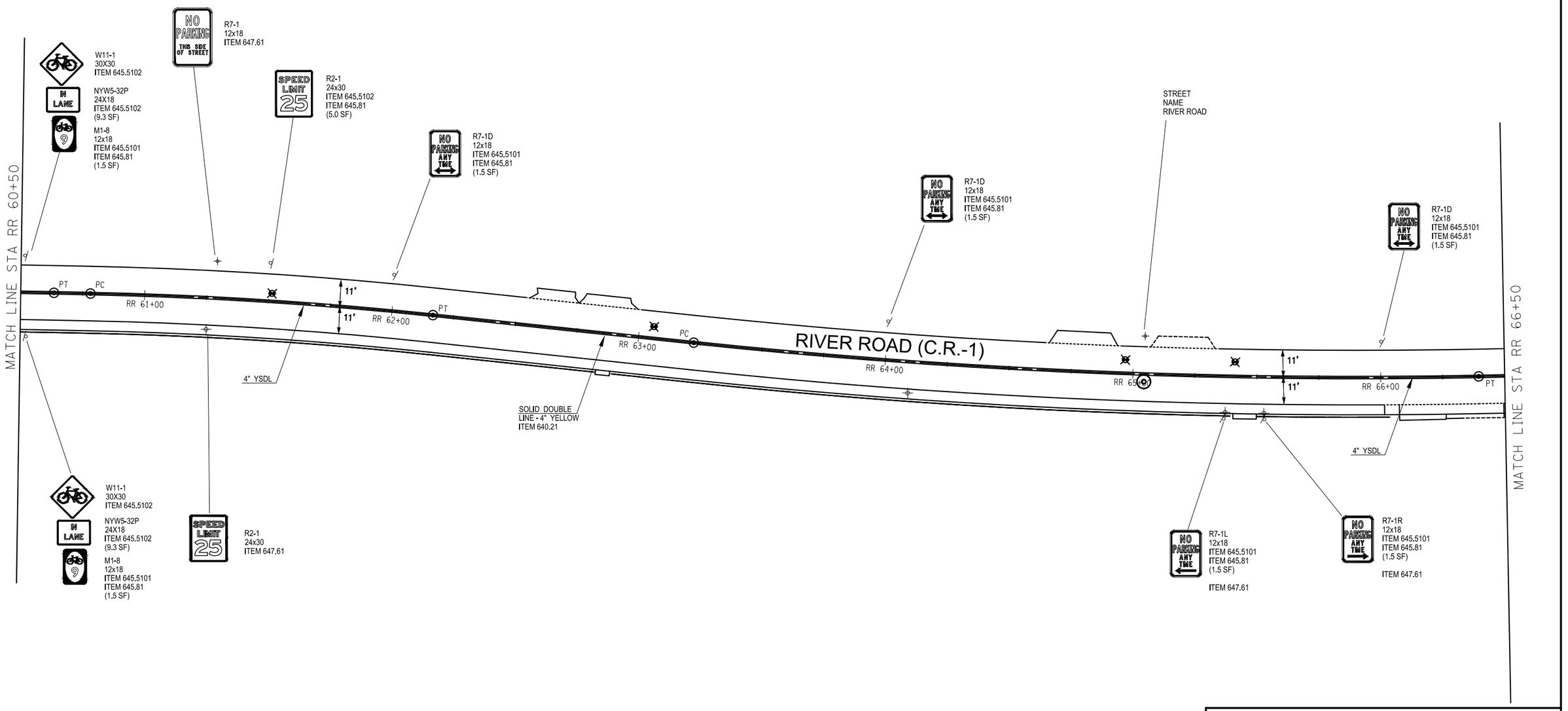


TABLE OF QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY
645.5101	GROUND MOUNTED SIGN PANELS WITHOUT Z-BARS	7.5 SF
645.5102	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS	5.0 SF
645.5202	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS, HIGH VISIBILITY SHEETING	0.0 SF
645.81	TYPE A SIGN POSTS	6 EA
647.61	REMOVE AND DISPOSE SIGNS, GROUND MOUNTED TYPE A SIGN SUPPORTS AND FOUNDATIONS-SIZE I (UNDER 30 SF)	4 EA

NOTE: QUANTITIES FOR THIS SHEET ONLY

PAVEMENT MARKING KEY

ITEM NO.	TYPE	DESCRIPTION
640.20	WEL	WHITE EDGE LINE - 4" WHITE
640.21	YSDL	DOUBLE SOLID LINE-4" YELLOW

20' 0 20 40Ft.

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ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
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TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

SIGNING AND PAVEMENT MARKINGS
STA RR 60+50 TO STA RR 66+50

AS-BUILT REVISIONS	DATE

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: SPM-10		SHEET 95 of 104

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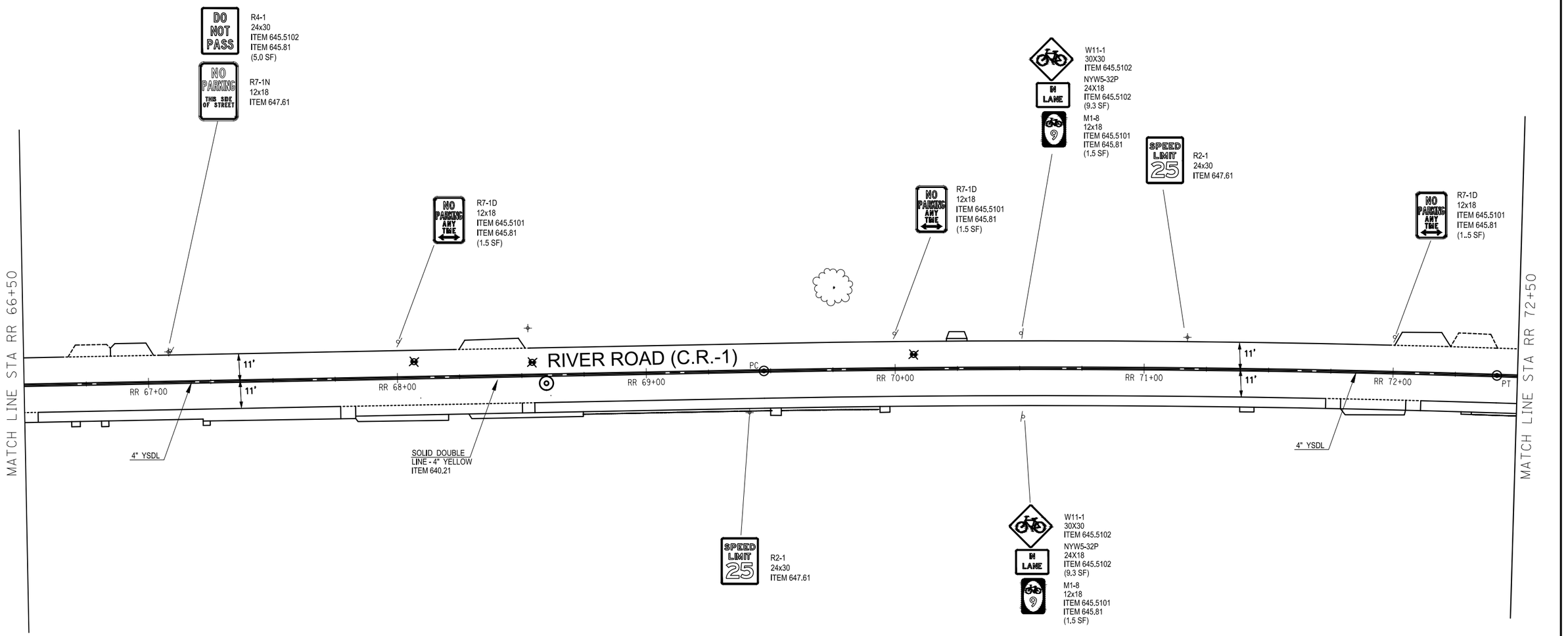


TABLE OF QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY
645.5101	GROUND MOUNTED SIGN PANELS WITHOUT Z-BARS	7.5 SF
645.5102	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS	23.6 SF
645.5202	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS, HIGH VISIBILITY SHEETING	0.0 SF
645.81	TYPE A SIGN POSTS	6 EA
647.61	REMOVE AND DISPOSE SIGNS, GROUND MOUNTED TYPE A SIGN SUPPORTS AND FOUNDATIONS-SIZE I (UNDER 30 SF)	3 EA

NOTE: QUANTITIES FOR THIS SHEET ONLY

PAVEMENT MARKING KEY

ITEM NO.	TYPE	DESCRIPTION
640.20 640.21	WEL YSDL	WHITE EDGE LINE - 4" WHITE DOUBLE SOLID LINE-4" YELLOW

20' 20 0 20 40Ft.

C&S Engineers, Inc.
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AS-BUILT REVISIONS	DATE

ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

SIGNING AND PAVEMENT MARKINGS
STA RR 66+50 TO STA RR 72+50

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: SPM-11		SHEET 96 of 104

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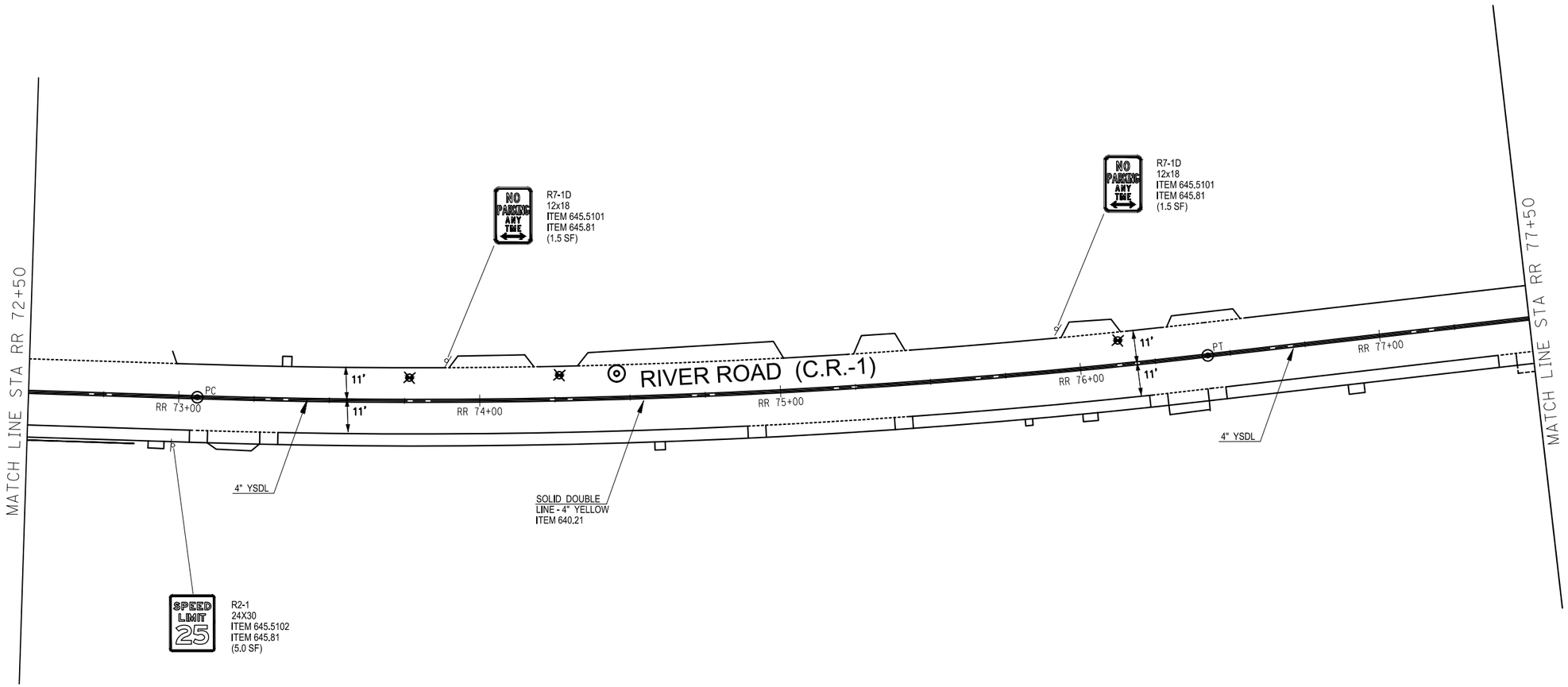


TABLE OF QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY
645.5101	GROUND MOUNTED SIGN PANELS WITHOUT Z-BARS	3.0 SF
645.5102	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS	5.0 SF
645.5202	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS, HIGH VISIBILITY SHEETING	0.0 SF
645.81	TYPE A SIGN POSTS	3 EA
647.61	REMOVE AND DISPOSE SIGNS, GROUND MOUNTED TYPE A SIGN SUPPORTS AND FOUNDATIONS-SIZE I (UNDER 30 SF)	0 EA

NOTE: QUANTITIES FOR THIS SHEET ONLY

PAVEMENT MARKING KEY

ITEM NO.	TYPE	DESCRIPTION
640.20 640.21	WEL YSDL	WHITE EDGE LINE - 4" WHITE DOUBLE SOLID LINE-4" YELLOW

20' 0 20 40Ft.

C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com

AS-BUILT REVISIONS	DATE

ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

SIGNING AND PAVEMENT MARKINGS
STA RR 72+50 TO STA RR 77+50

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: SPM-12		SHEET 97 of 104

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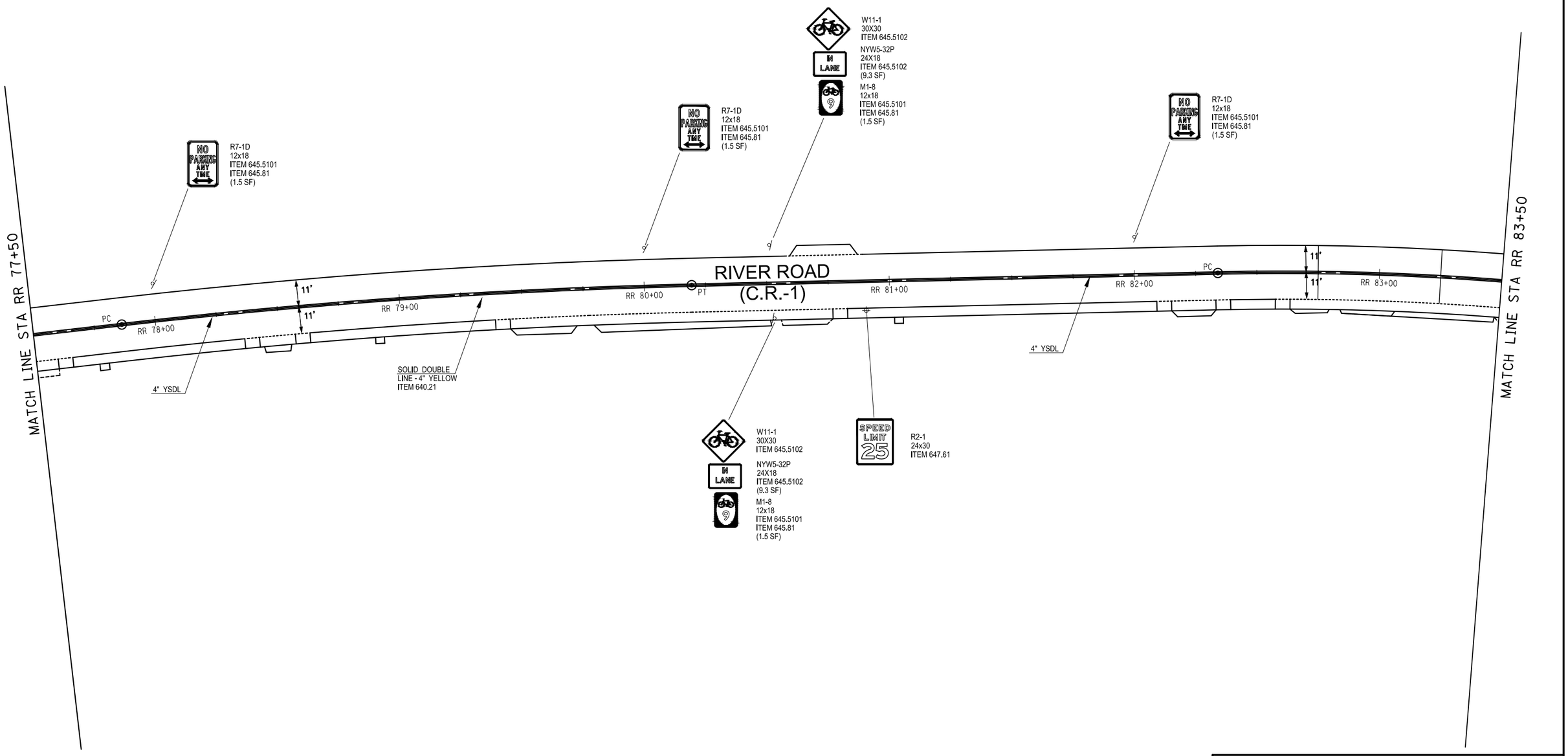


TABLE OF QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY
645.5101	GROUND MOUNTED SIGN PANELS WITHOUT Z-BARS	7.5 SF
645.5102	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS	18.6 SF
645.5202	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS, HIGH VISIBILITY SHEETING	0..0 SF
645.81	TYPE A SIGN POSTS	5 EA
647.61	REMOVE AND DISPOSE SIGNS, GROUND MOUNTED TYPE A SIGN SUPPORTS AND FOUNDATIONS-SIZE I (UNDER 30 SF)	1 EA

NOTE: QUANTITIES FOR THIS SHEET ONLY

PAVEMENT MARKING KEY

ITEM NO.	TYPE	DESCRIPTION
640.20 640.21	WEL YSDL	WHITE EDGE LINE - 4" WHITE DOUBLE SOLID LINE-4" YELLOW

20' 0 20 40Ft.

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ROCKLAND COUNTY HIGHWAY DEPARTMENT

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TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

SIGNING AND PAVEMENT MARKINGS
STA RR 77+50 TO STA RR 83+50

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: SPM-13		SHEET 98 of 104

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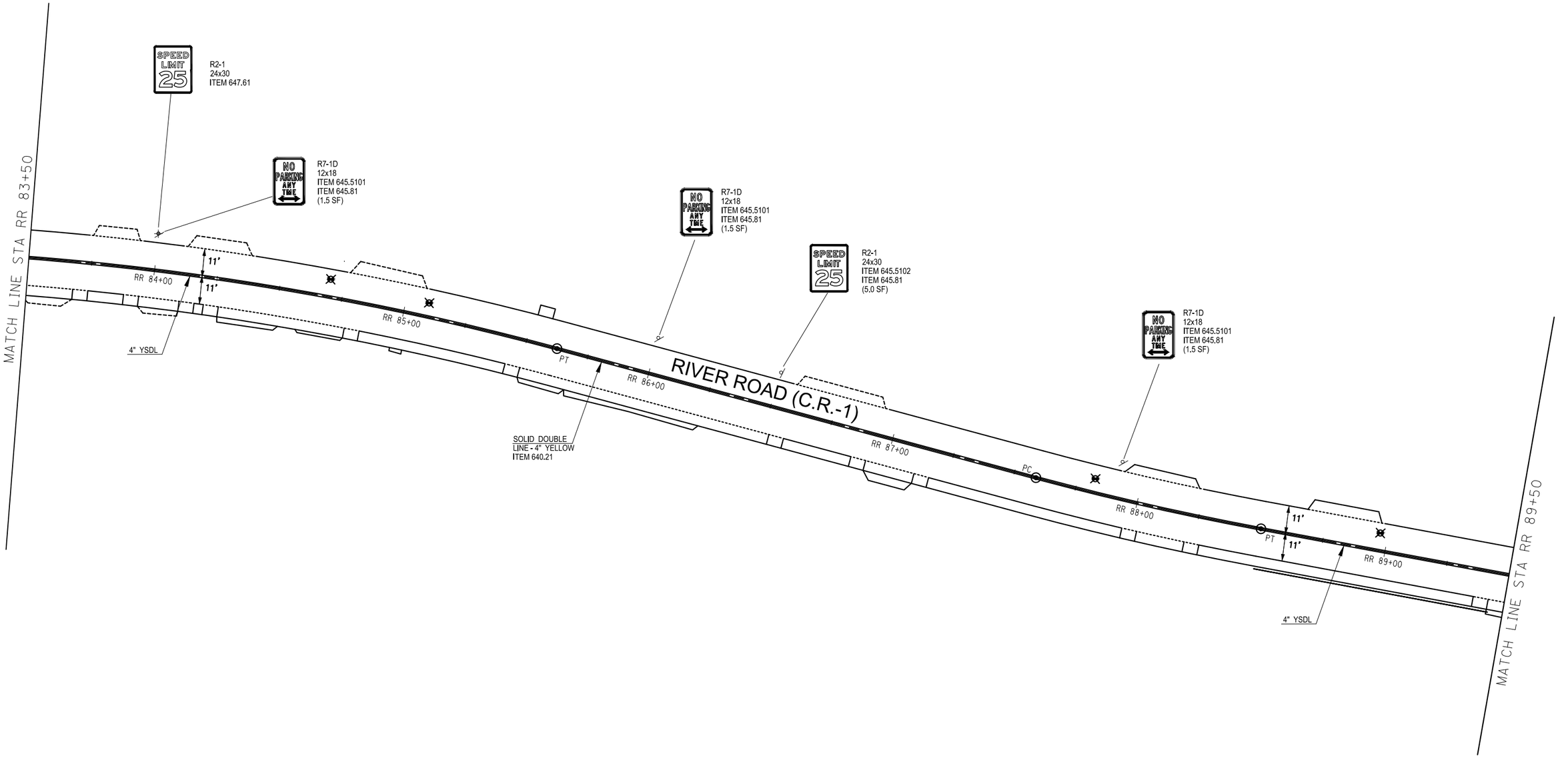


TABLE OF QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY
645.5101	GROUND MOUNTED SIGN PANELS WITHOUT Z-BARS	4.5 SF
645.5102	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS	5.0 SF
645.5202	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS, HIGH VISIBILITY SHEETING	0.0 SF
645.81	TYPE A SIGN POSTS	4 EA
647.61	REMOVE AND DISPOSE SIGNS, GROUND MOUNTED TYPE A SIGN SUPPORTS AND FOUNDATIONS-SIZE I (UNDER 30 SF)	1 EA

NOTE: QUANTITIES FOR THIS SHEET ONLY

PAVEMENT MARKING KEY

ITEM NO.	TYPE	DESCRIPTION
640.20	WSBL	STOP LINE-18" WHITE
640.21	YSDL	DOUBLE SOLID LINE-4" YELLOW

20' 0 20 40Ft.

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STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

SIGNING AND PAVEMENT MARKINGS
STA RR 83+50 TO STA RR 89+50

AS-BUILT REVISIONS	DATE

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: SPM-14		SHEET 99 of 104

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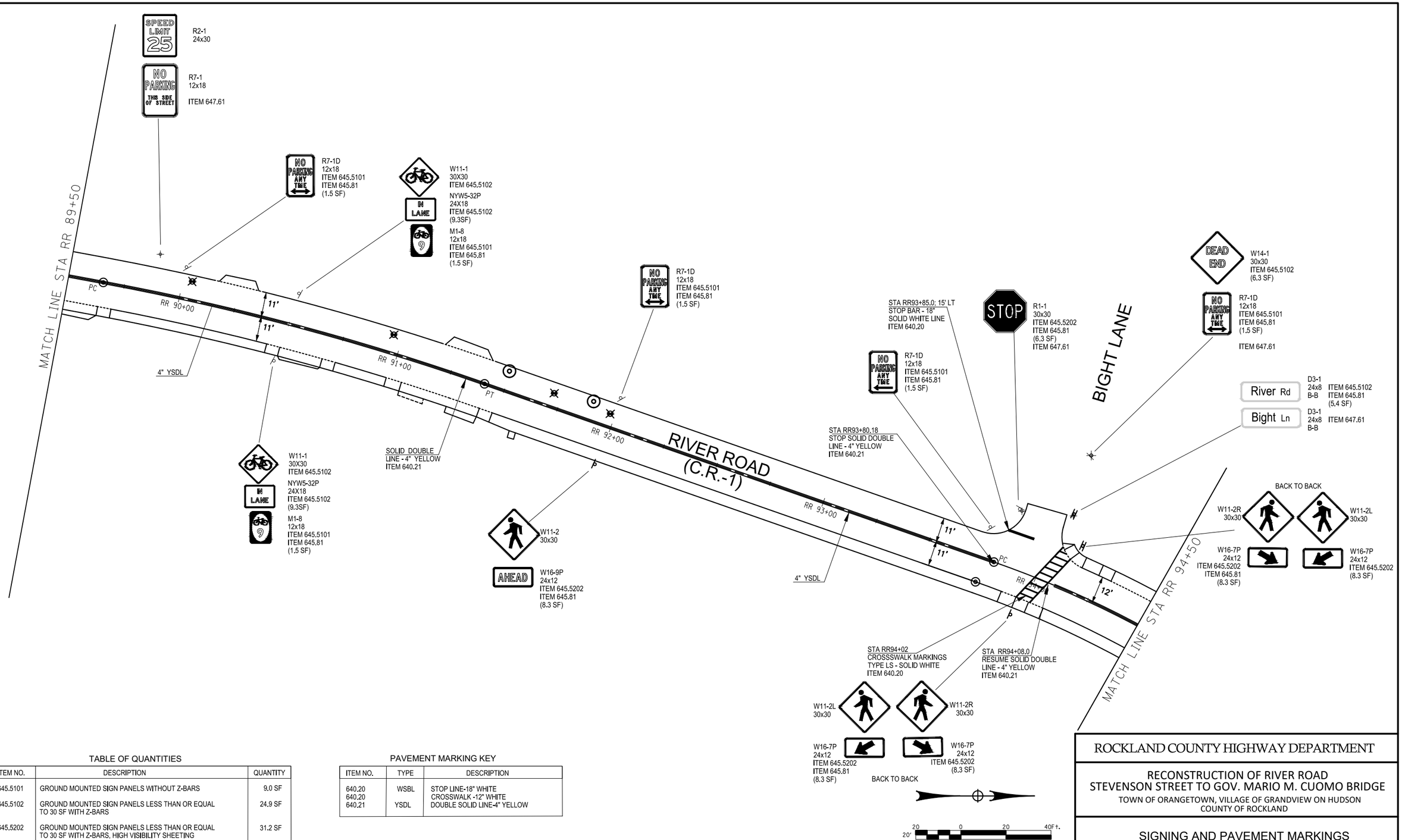


TABLE OF QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY
645.5101	GROUND MOUNTED SIGN PANELS WITHOUT Z-BARS	9.0 SF
645.5102	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS	24.9 SF
645.5202	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS, HIGH VISIBILITY SHEETING	31.2 SF
645.81	TYPE A SIGN POSTS	10 EA
647.61	REMOVE AND DISPOSE SIGNS, GROUND MOUNTED TYPE A SIGN SUPPORTS AND FOUNDATIONS-SIZE I (UNDER 30 SF)	4 EA

NOTE: QUANTITIES FOR THIS SHEET ONLY

PAVEMENT MARKING KEY

ITEM NO.	TYPE	DESCRIPTION
640.20	WSBL	STOP LINE-18" WHITE
640.20		CROSSWALK -12" WHITE
640.21	YSDL	DOUBLE SOLID LINE-4" YELLOW

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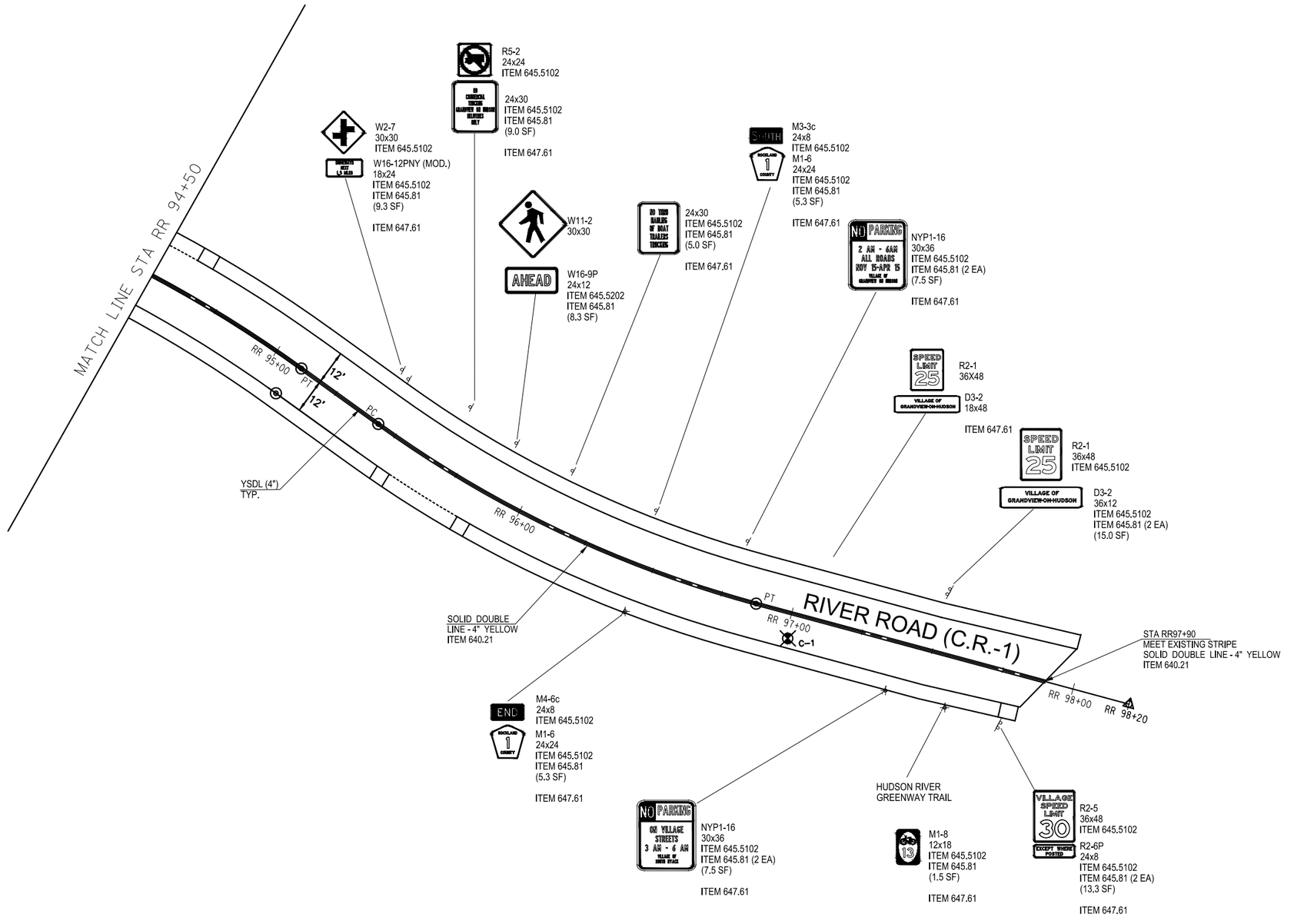
ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

SIGNING AND PAVEMENT MARKINGS
STA RR 89+50 TO STA RR 94+50

AS-BUILT REVISIONS	DATE		
		DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
		DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
		DWG No.: SPM-15		SHEET 100 of 104

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20 0 20 40Ft.
20'

TABLE OF QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY
645.5101	GROUND MOUNTED SIGN PANELS WITHOUT Z-BARS	9.0 SF
645.5102	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS	24.9 SF
645.5202	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS, HIGH VISIBILITY SHEETING	14.6 SF
645.81	TYPE A SIGN POSTS	8 EA
647.61	REMOVE AND DISPOSE SIGNS, GROUND MOUNTED TYPE A SIGN SUPPORTS AND FOUNDATIONS-SIZE I (UNDER 30 SF)	4 EA

NOTE: QUANTITIES FOR THIS SHEET ONLY

PAVEMENT MARKING KEY

ITEM NO.	TYPE	DESCRIPTION
640.20 640.21	WSBL YSDL	STOP LINE-18" WHITE DOUBLE SOLID LINE-4" YELLOW

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ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE
TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

SIGNING AND PAVEMENT MARKINGS
STA RR 94+50 TO STA RR 98+22

AS-BUILT REVISIONS	DATE

DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
DATE: NOV 2020	SCALE: 1"=40'	PROJ. NO.: 839.001.001
DWG No.: SPM-16		SHEET 101 of 104

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ESTIMATE OF QUANTITES

ITEM	DESCRIPTION	UNIT	QUAN.	
201.06	CLEARING AND GRUBBING	LS	1	
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	7,100	
203.03	EMBANKMENT IN PLACE	CY	750	
203.07	SELECT GRANULAR FILL	CY	3,100	
204.01	CONTROLLED LOW STRENGTH MATERIAL (CLSM)	CY	55	
206.0201	TRENCH AND CULVERT EXCAVATION	CY	6,930	
206.04020011	PNEUMATIC EXCAVATION AND BACKFILL OF TEST PITS	EA	20	
207.21	GEOTEXTILE SEPARATION	SY	5,800	
209.13	SILT FENCE - TEMPORARY	LF	3,500	
209.1701	DRAINAGE STRUCTURE INLET PROTECTION, SILT FENCE - TEMPORARY	LF	1,000	
304.11000008	SUBBASE COURSE (MODIFIED)	CY	3,490	
402.018903	TRUE AND LEVELING F9 SUPERPAVE HMA, 80 SERIES COMPACTION	TON	1,860	
402.098903	9.5 F2 TOP COURSE HMA, 80 SERIES COMPACTION	TON	2,450	
402.198903	19.5 F9 BINDER COURSE HMA, 80 SERIES COMPACTION	TON	1,400	
402.378903	37.5 F9 BASE COURSE HMA, 80 SERIES COMPACTION	TON	2,510	
407.0102	DILUTED TACK COAT	GAL	2,750	
418.7603	ASPHALT PAVEMENT JOINT ADHESIVE	LF	27,500	
490.10	PRODUCTION COLD MILLING BITUMINOUS CONCRETE	SY	13,800	
490.30	MISCELLANEOUS COLD MILLING OF BITUMINOUS CONCRETE	SY	250	
503.1010	PCC FOUNDATION FOR PAVEMENT, CLASS C	CY	125	
554.3003	GEOSYNTHETIC REINFORCED SOIL SYSTEM WALL - TIMBERS	SF	40	
555.0105	CONCRETE FOR STRUCTURES, CLASS A	CY	2	
560.13200008	REMOVE AND RESET EXISTING STONE WALL	CY	7	
582.06	REMOVAL OF STRUCTURAL CONCRETE - REPLACEMENT WITH CLASS D CONCRETE	SF	18	
603.091610	CORRUGATED STEEL PIPE ARCH (2 2/3 x 1/2), 35 INCH SPAN X 24 INCH RISE	LF	36	
603.171316	CORRUGATED STEEL END SECTIONS PIPE (2 2/3 x 1/2), 21 INCH DIAMETER 16 GAUGE	EA	2	
603.6002	REINFORCED CONCRETE PIPE CLASS III, 15 INCH DIAMETER	LF	540	
603.6003	REINFORCED CONCRETE PIPE CLASS III, 18 INCH DIAMETER	LF	162	
603.6005	REINFORCED CONCRETE PIPE CLASS III, 24 INCH DIAMETER	LF	90	
603.6009	REINFORCED CONCRETE PIPE CLASS III, 36 INCH DIAMETER	LF	25	
603.9815	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN, 15 INCH DIAMETER	LF	100	
603.9818	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN, 18 INCH DIAMETER	LF	5,185	
603.9824	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN, 24 INCH DIAMETER	LF	100	
603.9836	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN, 36 INCH DIAMETER	LF	150	
603.99050002	CONCRETE PIPE PLUG	EA	75	
604.06	TRANSVERSE DRAINAGE INTERCEPTOR	LF	186	
604.07010801	ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES, TYPE 1	EA	24	
604.07010802	ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES, TYPE 2	EA	12	
604.07260011	CONNECTION TO EXISTING DRAINAGE FACILITIES	EA	2	
604.13000011	ABANDONING DRAINAGE STRUCTURES	EA	2	
604.301873	RECTANGULAR DRAINAGE STRUCTURE, TYPE R, F3 FRAME	LF	300	
604.320103	RECTANGULAR DRAINAGE STRUCTURE, TYPE A	LF	10	
604.320216	RECTANGULAR DRAINAGE STRUCTURE, TYPE B	LF	8	
604.4048	ROUND PRECAST CONCRETE MANHOLE TYPE 48	LF	5	
604.4060	ROUND PRECAST CONCRETE MANHOLE TYPE 60	LF	37	
604.50180010	OFFSET CATCH BASIN	LF	84	
604.51020315	STORMWATER TREATMENT SYSTEM (SWTS)	EA	2	
604.51020415	STORMWATER TREATMENT SYSTEM (SWTS)	EA	1	
604.51020515	STORMWATER TREATMENT SYSTEM (SWTS)	EA	7	
604.51020715	STORMWATER TREATMENT SYSTEM (SWTS)	EA	2	
605.1001	UNDERDRAIN FILTER, TYPE II	CY	550	
605.1501	PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN TUBING, 4 INCH DIAMETER	LF	11,775	
605.1502	PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN TUBING, 6 INCH DIAMETER	LF	260	
605.16030008	NON-PERFORATED PVC PIPE - 8 INCH DIAMETER	LF	190	
606.1001	BOX BEAM GUIDE RAILING W/EXTRA LONG POSTS	LF	3,041	
606.120101	BOX BEAM END PIECE	EA	48	
606.71	REMOVING AND DISPOSING OF CORRUGATED BEAM GUIDE RAILING	LF	263	
606.7910	REMOVING AND DISPOSING OF ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING OR MEDIAN BARRIER	EA	1	
607.88000003	REPAIR AND RESET EXISTING FENCE GATE	EA	10	
607.97000008	REMOVE AND RESET EXISTING FENCE	LF	490	
608.0101	CONCRETE SIDEWALKS AND DRIVEWAYS	CY	518	
608.10080008	RESETTING BRICK, BLOCK OR FLAGSTONE SIDEWALK OR DRIVEWAYS	SF	3,700	
608.020102	HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS, AND BICYCLE PATHS	TON	200	
608.21000003	EMBEDDED DETECTABLE WARNING UNITS, CAST IRON	SY	6	
609.0203	STONE CURB, TYPE C	LF	16,900	

ITEM	DESCRIPTION	UNIT	QUAN.	
610.1403	TOPSOIL -LAWNS	CY	450	
610.1602	TURF ESTABLISHMENT - LAWNS	SY	5,250	
610.19	WATERING VEGETATION	MGAL	765	
614.060304	TREE REMOVAL 6" TO 12" DIAMETER BREAST HIGH, GRUB STUMP	EA	1	
619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS	NEC.	
619.04	TYPE III CONSTRUCTION BARRICADES	EA	30	
619.0901	TEMPORARY PAVEMENT MARKINGS, TRAFFIC PAINT	LF	35,200	
619.1301	TEMPORARY TRAFFIC SIGNALS	ELOC	10	
619.1701	TEMPORARY CONCRETE BARRIER, (UNPINNED), WITH FLASHING LIGHTS	LF	1860	
619.27	MAILBOXES	EA	75	
620.04	STONE FILLING - (MEDIUM)	CY	30	
625.01	SURVEY OPERATIONS	LS	NEC.	
625.03	CONCRETE RIGHT OF WAY MARKERS	EA	27	
627.50140008	CUTTING PAVEMENT	LF	18,500	
637.12	ENGINEER FIELD OFICE - TYPE 2	MO	26	
637.34	OFFICE TECHNOLOGIES AND SUPPLIES	DC	12,200	
640.20	WHITE REFLECTORIZED PAVEMENT STRIPES - 20 MILS	LF	1,437	
640.21	YELLOW REFLECTORIZED PAVEMENT STRIPES - 20 MILS	LF	16,813	
645.5101	GROUND MOUNTED SIGN PANELS WITHOUT Z-BARS	SF	103	
645.5102	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS	SF	361	
645.5202	GROUND MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS, HIGH-VISIBILITY SHEETING	SF	92	
645.81	TYPE A SIGN POSTS	EA	115	
647.51	REMOVE AND DISPOSE SIGN PANEL, SIGN PANEL ASSEMBLY SIZE I (UNDER 30 SF)	EA	52	
647.61	REMOVE AND DISPOSE SIGNS, GROUND MOUNTED TYPE A SIGN SUPPORTS AND FOUNDATIONS - SIZE I (UNDER 30 SF)	EA	52	
655.0706	CAST FRAME F3, UNMOUNTABLE CURB BOX CU3, AND RETICULINE GRATE G3	EA	72	
655.1103	WELDED FRAME AND RETICULINE GRATE 3	EA	2	
655.1116	WELDED FRAME AND RETICULINE GRATE 16	EA	26	
655.1202	MANHOLE FRAME & COVER	EA	29	
663.25000010	RESTORING WATER SERVICE CONNECTIONS	EA	6	
663.33	ADJUST EXISTING VALVE BOX ELEVATION	EA	91	
697.03	FIELD CHANGE PAYMENT (FCP)	DC	1	
698.04	ASPHALT PRICE ADJUSTMENT	DC	100	
698.05	FUEL PRICE ADJUSTMENT	DC	100	
698.06	STEEL/IRON PRICE ADJUSTMENT	DC	100	
699.040001	MOBILIZATION (4%)	LS	NEC.	

ESTIMATE OF QUANTITIES
ORANGE & ROCKLAND - GAS RELOCATION (BETTERMENT)

ITEM	DESCRIPTION	UNIT	QUAN.	
100.3.1-1 & 1-2	SPECIFICATIONS FOR BACKFILL MATERIAL	CY	310	
203.07	SELECT GRANULAR FILL	CY	170	
206.0201	TRENCH AND CULVERT EXCAVATION	CY	630	
304.11000008	SUBBASE COURSE (MODIFIED)	CY	170	
402.198903	19.5 F9 BINDER COURSE HMA, 80 SERIES COMPACTION	TON	50	
402.378903	37.5 F9 BASE COURSE HMA, 80 SERIES COMPACTION	TON	140	
407.0102	DILUTED TACK COAT	GAL	55	
619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS	1	
619.04	TYPE III CONSTRUCTION BARRICADES	EA	36	
619.1301	TEMPORARY TRAFFIC SIGNALS	ELOC	6	
619.1701	TEMPORARY CONCRETE BARRIER, (UNPINNED), WITH FLASHING LIGHTS	LF	480	
625.01	SURVEY OPERATIONS	LS	1	
627.50140008	CUTTING PAVEMENT	LF	2,400	
697.03	FIELD CHANGE PAYMENT	DC	30,000	
698.04	ASPHALT PRICE ADJUSTMENT (LUMP SUM) [CALCULATED IN ESTIMATOR]	DC	1	
698.05	FUEL PRICE ADJUSTMENT (LUMP SUM) [CALCULATED IN ESTIMATOR]	DC	1	

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RECONSTRUCTION OF RIVER ROAD
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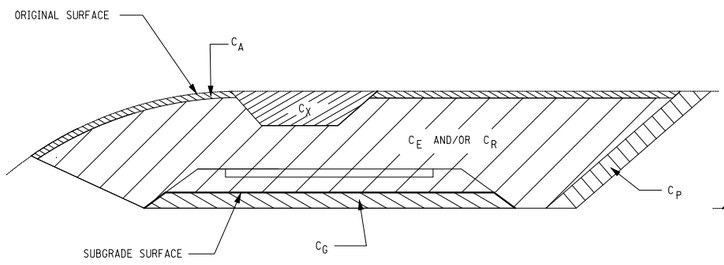
ESTIMATE OF QUANTITIES

AS-BUILT REVISIONS	DATE			
		DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
		DATE: NOV 2020	SCALE: NO SCALE	PROJ. NO.: 839.001.001
		DWG No.: EQ-01		SHEET 102 of 104

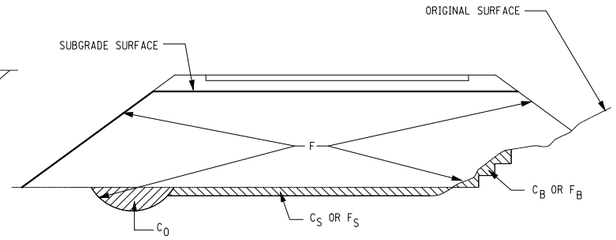
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SUMMARY OF EARTHWORK (ITEMS 203.02 AND 203.03 ONLY)						
SOURCE		EXCAVATION			ITEM 203.02	ITEM 203.03
		TE	CR	TU	CT	FT
RR 10+50	RR 11+75	0	0	97	97	0
RR 11+75	RR 12+25	0	0	77	77	0
RR 12+25	RR 14+50	0	0	174	174	0
RR 16+50	RR 19+00	0	0	194	194	0
RR 23+00	RR 23+50	0	0	39	39	0
RR 25+00	RR 25+50	0	0	39	39	0
RR 35+50	RR 37+25	0	0	135	135	0
RR 41+50	RR 46+50	0	0	774	774	0
RR 48+00	RR 50+00	0	0	155	155	0
RR 58+50	RR 59+50	0	0	77	77	0
RR 62+50	RR 63+00	0	0	39	39	0
RR 68+00	RR 69+00	0	0	155	155	0
RR 70+00	RR 72+50	0	0	387	387	0
RR 78+00	RR 79+00	0	0	155	155	0
RR 79+00	RR 80+50	0	0	116	116	0
RR 82+75	RR 83+25	0	0	77	77	0
RR 86+00	RR 92+00	0	0	929	929	0
CURB		0	0	2241	1741	0
SIDEWALKS		0	0	500	500	680
SIDEWALK SUBASE				691	691	
DRIVEWAYS		0	0	349	349	
TOTALS					6900	680

SUMMARY OF TRENCH AND CULVERT EXCAVATION (ITEMS 206.0201 ONLY)			
SOURCE	EXCAVATION		ITEM 206.0201
	ROCK	NON-ROCK	
DRAINAGE	0	0	0
PIPES	0	3902	3902
STRUCTURES	0	1803	1803
UNDERDRAIN	0	602	602
STORMWATER TREATMENT UNITS	0	599	599
	0	0	0
	0	0	0
	0	0	0
	0	0	0
	0	0	0
	0	0	0
	0	0	0
	0	0	0
	0	0	0
TOTALS	0	6906	6906



CUT SECTION



FILL SECTION

DEFINITIONS:

CB - EXCAVATION FOR REQUIRED BENCHING, (BOTH LONGITUDINAL AND TRANSVERSE).

CG - EXCAVATION FOR SUBGRADE IMPROVEMENT.

CP - EXCAVATION FROM CUT SLOPE NECESSARY TO PLACE SLOPE PROTECTION.

CE - PORTION OF CUT ASSUMED TO BE EARTH SUITABLE FOR EMBANKMENT CONSTRUCTION, EXCLUDING CG AND CP.

TE - (CB + CG + CP + CE) TOTAL EARTH CUT SECTION

CA - EXCAVATION OF TOPSOIL (UNSUITABLE MATERIAL) IN CUT.

CS - EXCAVATION OF TOPSOIL (UNSUITABLE MATERIAL) UNDER EMBANKMENT.

CX - EXCAVATION OF UNSUITABLE MATERIAL IN CUT: SWAMP OR DUMP

CO - EXCAVATION OF UNSUITABLE MATERIAL BENEATH EMBANKMENT: SWAMP OR DUMP

TU - (CA + CS + CX + CO) TOTAL EXCAVATION ASSUMED UNSUITABLE FOR EMBANKMENT CONSTRUCTION.

CR - PORTION OF CUT ASSUMED TO BE ROCK, INCLUDING CG IF APPLICABLE.

CT - (TE + TU + CR) TOTAL EXCAVATION.

DEFINITIONS: FILL SECTION

FB - FILL REQUIRED TO REPLACE BENCHES.

FS - FILL REQUIRED TO REPLACE TOPSOIL REMOVED BENEATH EMBANKMENTS.

F - FILL REQUIRED TO COMPLETE EMBANKMENT TO SUBGRADE SURFACE AND SIDE-SLOPES AFTER FOUNDATION IS PREPARED.

FT - (FB + FS + F) TOTAL FILL REQUIRED.

TA - (TE x FE + CR x FR) THE VOLUME WHICH THE SUITABLE EXCAVATED MATERIAL COULD OCCUPY IN EMBANKMENT.

FE - SHRINKAGE FACTOR FOR EARTH

FR - SWELL FACTOR FOR ROCK

NOTES:

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT THESE TABLES ARE ESTIMATED, AND ARE PROVIDED FOR THE PURPOSE OF PREPARING AN ESTIMATE. THEY ARE NOT TO BE CONSTRUED AS BEING EXACT. THEY ARE INTENDED TO QUANTIFY AND QUALIFY THE NATURE OF THE WORK TO BE PREFORMED. SIGNIFICANT DIFFERENCE FROM THIS REPRESENTATION, WHEN ECOUNCTERED DURING THE ACTUAL WORK, WILL BE HANDLED ACCORDING TO THE SPECIFICATIONS GOVERNING THIS PROJECT.

203.02 UNCLASSIFIED EXCAVATION AND DISPOSAL

203.03 EMBANKMENT IN PLACE

C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
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ROCKLAND COUNTY HIGHWAY DEPARTMENT

RECONSTRUCTION OF RIVER ROAD
STEVENSON STREET TO GOV. MARIO M. CUOMO BRIDGE

TOWN OF ORANGETOWN, VILLAGE OF GRANDVIEW ON HUDSON
COUNTY OF ROCKLAND

EARTHWORK SUMMARY

AS-BUILT REVISIONS DATE		
	DESIGNED BY: JPG	DRAWN BY:
	DATE: NOV 2020	SCALE: AS SHOWN
	DWG No.: ESS-01	

CHECKED BY: JFM

PROJ. NO.: 839.001.001

SHEET 103 of 104

F:\Project\839 - Rockland County\839001001 River Road CR11\CADD\Project Files\Current Autocad Files\875522b2_earth Work Summary.dwg Layout: ESS-01 Plot Date Nov 30 20 Time: 12:00 PM

SUBDIVISION NO.	SOURCE STATION TO STATION		SUITABLE EXCAVATION					ROCK	UNSUITABLE EXCAVATION					TOTAL EXCAVATION	EMBANKMENT			
			CB	CG	CP	CE	TE	CR	CA	CS	CX	CO	TU	CT	FB	FS	F	FT
1	RR 10+50	RR 11+75	0	0	0	0	0	0	0	0	97	0	97	97	0	0	0	0
2	RR 11+75	RR 12+25	0	0	0	0	0	0	0	0	77	0	77	77	0	0	0	0
3	RR 12+25	RR 14+50	0	0	0	0	0	0	0	0	174	0	174	174	0	0	0	0
4	RR 16+50	RR 19+00	0	0	0	0	0	0	0	0	194	0	194	194	0	0	0	0
5	RR 23+00	RR 23+50	0	0	0	0	0	0	0	0	39	0	39	39	0	0	0	0
6	RR 25+00	RR 25+50	0	0	0	0	0	0	0	0	39	0	39	39	0	0	0	0
7	RR 35+50	RR 37+25	0	0	0	0	0	0	0	0	135	0	135	135	0	0	0	0
8	RR 41+50	RR 46+50	0	0	0	0	0	0	0	0	774	0	774	774	0	0	0	0
9	RR 48+00	RR 50+00	0	0	0	0	0	0	0	0	155	0	155	155	0	0	0	0
10	RR 58+50	RR 59+50	0	0	0	0	0	0	0	0	77	0	77	77	0	0	0	0
11	RR 62+50	RR 63+00	0	0	0	0	0	0	0	0	39	0	39	39	0	0	0	0
12	RR 68+00	RR 69+00	0	0	0	0	0	0	0	0	155	0	155	155	0	0	0	0
13	RR 70+00	RR 72+50	0	0	0	0	0	0	0	0	387	0	387	387	0	0	0	0
14	RR 78+00	RR 79+00	0	0	0	0	0	0	0	0	155	0	155	155	0	0	0	0
15	RR 79+00	RR 80+50	0	0	0	0	0	0	0	0	116	0	116	116	0	0	0	0
16	RR 82+75	RR 83+25	0	0	0	0	0	0	0	0	77	0	77	77	0	0	0	0
17	RR 86+00	RR 92+00	0	0	0	0	0	0	0	0	929	0	929	929	0	0	0	0
18	CURB		0	0	0	0	0	0	0	0	1741	0	1741	1741	0	0	0	0
19	SIDEWALKS		0	0	0	0	0	0	0	0	500	0	500	500	0	0	680	680
20	SUBBASE		0	0	0	0	0	0	0	0	691	0	691	691	0	0	0	0
21	DRIVEWAYS		0	0	0	0	0	0	0	0	349	0	349	349	0	0	0	0
		TOTALS	0	0	0	0	0	0	0	0	6900	0	6900	6900	0	0	680	680

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EARTHWORK SUMMARY

AS-BUILT REVISIONS	DATE			
		DESIGNED BY: JPG	DRAWN BY:	CHECKED BY: JFM
		DATE: NOV 2020	SCALE: AS SHOWN	PROJ. NO.: 839.001.001
		DWG No.: ESS-02		SHEET 104 of 104

F:\Project\839 - Rockland County\839001001 River Road CR1\CADD\Project Files\Current Autocad Files\875522b2_earth Work Summary.dwg Layout: ESS-02 (2) Plot Date Nov 30 20 Time: 11:04 AM