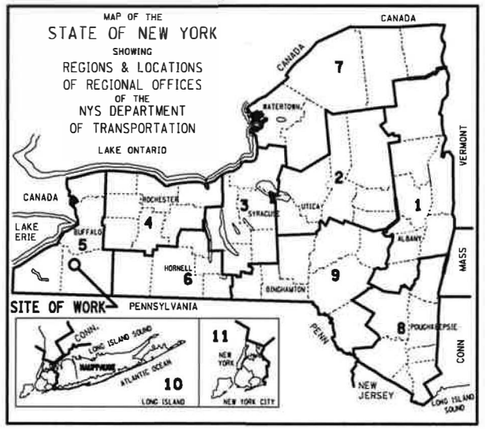


CONTRACTOR'S NAME _____

AWARD DATE _____

COMPLETION DATE _____

FINAL ACCEPTANCE DATE _____

ENGINEER IN CHARGE _____

FINAL COST TOTAL _____

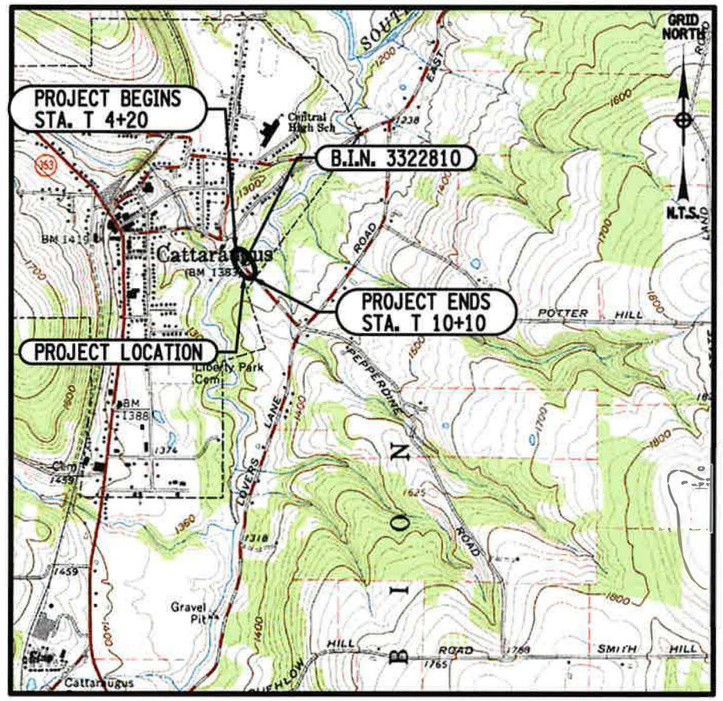
FISCAL SHARE COST(S)

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

REPLACEMENT OF NEW ALBION BRIDGE #35

(B.I.N. 3322810) TANNERY STREET
OVER TRIBUTARY SOUTH BRANCH CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION

CATTARAUGUS COUNTY



PROJECT LOCATION

THIS PROJECT IS LOCATED ON TANNERY STREET IN THE VILLAGE OF CATTARAUGUS AND THE TOWN OF NEW ALBION, CATTARAUGUS COUNTY.
THE PROJECT SITE IS 0.1 MILES SOUTH EAST OF THE INTERSECTION OF WAVERLY STREET AND TANNERY STREET IN THE VILLAGE OF CATTARAUGUS.

THE LATEST REVISIONS OF THE STANDARD SHEETS MAINTAINED BY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, WHICH ARE CURRENT ON THE DATE OF CONTRACT LETTING 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.

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE STANDARD SPECIFICATIONS (US CUSTOMARY UNITS) REFERENCED IN THE CONTRACT "PROPOSAL", EXCEPT AS MODIFIED ON THESE PLANS OR BY CHANGES SET FORTH IN THE CONTRACT "PROPOSAL".

CONTRACT PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH NYSDOT POLICIES AND GUIDE LINES AND THE FINAL DESIGN REPORT APPROVED ON 4/25/2018.

STATE OF NEW YORK
JAMES R. HOFMANN JR.
070704
LICENSED PROFESSIONAL ENGINEER

RECOMMENDED BY

James R. Hofmann Jr. 8/23/19

JAMES R. HOFMANN, JR.
N.Y.S.P.E. LIC. NO. 070704 DATE

Stantec

TANNERY STREET (B.I.N. 3322810)
OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND
TOWN OF NEW ALBION
COUNTY: CATTARAUGUS

FED. ROAD REG. NO.	STATE	SHEET NO.
1	N.Y.	1

CAPITAL PROJECT IDENTIFICATION NO. 5757.33

INDEX ON SHEET NO. 2

KATHLEEN M. ELLIS
COMMISSIONER
CATTARAUGUS COUNTY DEPARTMENT OF PUBLIC WORKS

JAMES J. SNYDER
CHAIRMAN
CATTARAUGUS COUNTY LEGISLATURE

PROJECT MANAGER T. BUTLER
CHECK T. BUTLER / S. MILLER
DRAFTING D. CLARK
DESIGN D. CLARK
JOB MANAGER S. MILLER/J. HOFMANN
DESIGN SUPERVISOR J. HOFMANN
CHECK K. ALBERTS / S. MILLER

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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 PIPE
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 POLYETHYLENE PIPE
TB	TOP OF BANK (STREAM)
TC	TOP OF CURB
TG	TOP OF GRATE
VCP	VITRIFIED CLAY PIPE

TOPOGRAPHY (MISCELLANEOUS)

ABBR.	DESCRIPTION
ABUT	ABUTMENT
ADBE	AS DIRECTED BY ENGINEER
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

STANDARD SYMBOL (PLANS)	ITEM PAYMENT UNIT: ESTIMATE OF QUANTITIES SHEET	EQUIVALENT NOMENCLATURE: (SPECS/PROPOSAL)
"	-	INCHES
'	LF	LINEAR FEET
mi	MI	MILES
ft^2	SF	SQUARE FEET
YD^2	SY	SQUARE YARD
AC	AC	ACRES
YD^3	CY	CUBIC YARD
GAL	GAL	GALLON
lb	LB	POUND
TON	TON	TON

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 PENTROMETER
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 CATEGORIES: 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

INDEX

TOTAL NUMBER OF SHEETS: 44

STANDARD SHEETS

203-01 606-07 619-11 645-01 685-01
203-02 608-03 619-12 645-03
209-01 611-01 619-20 646-13
209-02 619-01 619-21 646-14
209-06 619-02 619-60 646-15
603-02 619-04 619-61 655-01
604-02 619-10 619-66 655-07

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION
COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33

BRIDGES 3322810

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

INDEX AND ABBREVIATIONS

DRAWING NO. INDEX
SHEET NO. 2

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

PROJECT MANAGER T. BUTLER
S. MILLER/ CHECK T. BUTLER
DRAFTING D. CLARK
DESIGN SUPERVISOR J. HOFMANN
JOB MANAGER S. MILLER/J. HOFMANN
DESIGN D. CLARK
CHECK K. ALBERTS S. MILLER/

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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
UD	DUD_P	UNDERDRAIN

ENVIRONMENTAL

STYLE	NAME	DESCRIPTION
S	EBLHS	BALE, STRAW
	ECT	CURTAIN, TURBIDITY
	EDMC	DAM, COFFER
	EDMEC_P	DAM, EARTHEN CHECK
	EDMGSC_P	DAM, GRAVEL BAG/SAND BAG CHECK
	EDMPC_P	DAM, PREFABRICATED 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

NOTES:

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 (0.015 in 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.

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
	MHA	HISTORICAL, ACQUISITION
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
CZ	RCZ_P	CLEAR ZONE
	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
3R	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

SIGNS

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

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
	STXLB	X WALK, LADDER BAR LINE

• = W (WHITE) OR Y (YELLOW)

TRAFFIC CONTROL

STYLE	NAME	DESCRIPTION
	TCSW	SIGNAL, SPAN WIRE

TRAFFIC WORK ZONE

STYLE	NAME	DESCRIPTION
	TWZBT_P	BARRIER, TEMPORARY
	TWZBTWL_P	BARRIER, TEMPORARY, W/ WARNING LIGHTS
	TWZCD_P	CHANNELIZING DEVICE
	TWZPMRC_P	PAVEMENT MARKING REMOVAL OR COVERING

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
	UPGW	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

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK	PIN 5757.33	BRIDGES 3322810	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION				LEGEND, LINE, AND POINT SYMBOLOGY	DRAWING NO. LEG-1
					SHEET NO. 3
COUNTY: CATTARAUGUS REGION: 5				CATTARAUGUS COUNTY DEPARTMENT OF PUBLIC WORKS	Stantec

DESIGN SUPERVISOR J. HOFMANN | JOB MANAGER S. MILLER/J. HOFMANN | DESIGN D. CLARK | CHECK S. MILLER/K. ALBERTS | DRAFTING D. CLARK | CHECK S. MILLER/T. BUTLER | PROJECT MANAGER T. BUTLER

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ALIGNMENT

CELL	NAME	DESCRIPTION
	ACC	CENTER OF CURVATURE
	ACOGO	COGO
	ACS	CURVE TO SPIRAL
	ADPI_P	DETOUR, POINT OF INTERSECT.
	ADPL_P	DETOUR, POINT ON LINE
	AEQN	EQUATION
	AEQNAHD	EQUATION AHEAD
	AEQNBK	EQUATION BACK
	AEVT	EVENT STATION
	APC	POINT OF CURVATURE
	APCC	POINT OF COMPOUND CURVATURE
	API	POINT OF INTERSECTION
	APOB	POINT OF BEGINNING
	APOC	POINT OF CURVATURE
	APOE	POINT OF END
	APOL	POINT ON LINE
	APOS	POINT ON SPIRAL
	APOT	POINT ON TANGENT
	APOVC	POINT ON VERTICAL CURVE
	APOVT	POINT ON VERTICAL TANGENT
	APORC	POINT ON REVERSE CURVE
	APT	POINT OF TANGENCY
	APVC	POINT OF VERTICAL CURVATURE
	APVCC	POINT OF VERT. CMPND CURVE
	APVI	POINT OF VERT. INTERSECTION
	APVRC	POINT OF VERT. REVERSE CURVE
	APVT	POINT OF VERTICAL TANGENCY
	ASC	SPIRAL TO CURVE
	ASPI	SPIRAL POINT OF INTERSECTION
	ASTS	SPIRAL TO SPIRAL
	AST	SPIRAL TO TANGENT
	ATS	TANGENT TO SPIRAL
	AVEVT	VERTICAL EVENT POINT
	AVHIGH	VERTICAL HIGH POINT
	AVLOW	VERTICAL LOW POINT

BRIDGE

CELL	NAME	DESCRIPTION
	BSC	BRIDGE, SCUPPER

CONTROL

CELL	NAME	DESCRIPTION
	CBP	BASELINE, POINT
	CBPOL	BASELINE, POINT ON LINE
	CBSP	BASELINE, SPUR POINT
	CBTP	BASELINE, TIE POINT
	CPBM	BENCHMARK
	CPH	POINT, HORIZ. PHOTOGRAMMETRY
	CPSM	POINT, SURVEY MARKER, PERM.
	CPSV	POINT, VERT., PHOTOGRAMMETRY

DRAINAGE

CELL	NAME	DESCRIPTION
	DINV	INVERT
	DS	STRUCTURE, RECTANGULAR
	DSI	STRUCTURE, INVERT
	DSM	STRUCTURE, MANHOLE
	DSMTXX_P	STRUCTURE, MANHOLE, TYPE "XX" "XX" = 48, 60, 72, 96
	DSR	STRUCTURE, ROUND
	DST"X"CB P	STRUCTURE, RECT., WITH CURB TYPE "X" "X" = F, G, N, O, P, R
	DST"X" P	STRUCTURE, RECT., TYPE "X" "X" = I, K, L, M, O, P, U

ENVIRONMENTAL

CELL	NAME	DESCRIPTION
CULV	EIOP_P	STR., INLET, OUTLET PROT.
GB	EIPGB_P	STR., INLET PROT., GRAVEL BAG
H/S	EIPHS_P	STR., INLET PROT., HAY/STRAW
PRFB	EIPP_P	STR., INLET PROT., PREFAB.
SF	EIPSF_P	STR., INLET PROT., SILT FENCE
	ERCB	RISER, CONCRETE BOX
	ETRS_P	TRAP, SEDIMENT
	EWFG	WETLAND FLAG

GEOTECHNICAL

CELL	NAME	DESCRIPTION
	GDH	DRILL HOLE

LANDSCAPE

CELL	NAME	DESCRIPTION
	LELS	ELEVATION, SPOT
	LFP	FLAG POLE
	LMB	MAILBOX
	LPB	PAPER BOX
	LPST	POST, SINGLE
	LRB	ROCK, BOULDER
	LSHC	SHRUB, CONIFEROUS
	LSHD	SHRUB, DECIDUOUS
	LTC	TREE, CONIFEROUS
	LTD	TREE, DECIDUOUS
	LTS	TREE, STUMP
	LTW P	TREE, WELL OR WALL
	LUKP	UNKNOWN POINT

ITS

CELL	NAME	DESCRIPTION
	IANT P	ANTENNAS
	IASCTS	ACCOU. SPEED/COUNT SNSR.S
	ICABPAD	CABINET & PAD
	ICCTV	CCTV SITE
CDPD	ICDPD	CDPD TRANSCEIVER
	ICELLT	CELL PHONE TOWER
	ICJB	CONDUIT JACK OR BORING
	ICNTLCAB	CONTROLLER CABINET
	ICPB	COMMUNICATION PULL BOX
	ICTD	CONDUIT TURNING DOWN
	ICTU	CONDUIT TURNING UP
	ICVTRT	COMM. VEH. ROAD TRANSCEIVER
	IDEFAULT	DEFAULT
EZ	IEZR	E-ZPASS READER
EZ-T	IEZTR	TRANSMITTAL READER
XC	IFOXCAB	FIBER OPTIC X-CONNECT CABINET
	IFUSSPL	FUSION SPLICE
	IHARADV	HAR ADVISORY SIGN
	IHARST	HAR SITE
LC	ILC	LOAD CENTER
	IMECSPL	MECHANICAL SPLICE
PM	IMSCS	PORT. SPEED & COUNT SENSOR
M	IMSCTS	MICRO SPEED & COUNT SENSOR
M	IMT	MICROWAVE TRANSCEIVER
VMS	IOVHVMS	PERM. OVERHEAD VMS
PA	IPASCS	PORT. ACCOU. SPD & CNT. SENSOR
	IPEDS	PEDESTRIAN SIGNAL HEAD
	IPSS	PAVEMENT SURFACE SENSOR
PVMS	IPVMS	PERM. VMS
RM	IRM	RAMP METER
RWIS	IRWIS	RDWY WEATHER INFO. SENSOR
	ISP	SOLAR PANEL
SS	ISST	SPREAD SPECT. TRANSCEIVER
TC	ITDB	TELEPHONE DEMARCATION BLK
TP	ITP	SUBSURFACE TEMP. PROBE
	IVTRT	VEHICLE TO RDWY TRANSCEIVER
WIM	IWIMD	WEIGHT IN MOTION DETECTOR
WVR	IWVR	WIRELESS VIDEO REPEATER
V	IWVRC	WIRELESS VIDEO RECEIVER
V	IWVTT	WIRELESS VIDEO TRANSMITTER

ROW MAPPING

CELL	NAME	DESCRIPTION
	MDL1P	DEED LINE, TYPE 1
	MDL2P	DEED LINE, TYPE 2
	MDL3P	DEED LINE, TYPE 3
	MDL4P	DEED LINE, TYPE 4
	MDL5P	DEED LINE, TYPE 5
	MEEP	EASEMENT, EXISTING
	MEPAP_P	EASEMENT, PERM., APPROX.
	MEPP_P	EASEMENT, PERM., BACK LINE
	MEPSP_P	EASEMENT, PERM., SHAPE
	MFAP_P	FEE ACQUISITION, APPROX.
	MFP_P	FEE ACQUISITION, BACK LINE
	MFSP_P	FEE ACQUISITION, SHAPE
	MHBAP	HIGHWAY BNDRY., APPROX.
	MHBCP	HISTORICAL, BLDG. CORNERS
	MHBP	HIGHWAY BNDRY, PT.
	MJCP	PT., JURIS. CITY
	MPBC	PT., BUILDING CORNER
	MPCC	PT., CROSS CUT
	MPDH	PT., DRILL HOLE
	MPF	PT., FENCE LOCATION
	MPIP	PT., IRON PIPE
	MPIR	PT., IRON ROD
	MPM	PT., MONUMENT
	MPMM	PT., MONUMENT, MISC.
	MPN	PT., NAIL
	MPRS	PT., RAILROAD SPIKE
	MPSP	PT., SPIKE
	MPST	PT., STAKE
	MPTW	PT., TREE W/ WIRE
	MPWL	PT., WALL LOCATION

ROW ACQUISITION

CELL	NAME	DESCRIPTION
M1 P1 FEE	MFS_P_T	FEE ACQUISITION
M1 P1 PE	MEPS_P_T	EASEMENT, PERMANENT
M1 P1 TE	METS_P_T	EASEMENT, TEMPORARY
M1 P1 TO	METS_P_T	OCCUPANCY, TEMPORARY
M1 P1 FEE WO/A	MFS_P_T	FEE ACQUISITION W/O ACCESS

ROADWAY

CELL	NAME	DESCRIPTION
	RES P	ELEVATION, SPOT
	RGA	GUIDE RAIL, ANCHOR
	RGP	GUIDE POST, SINGLE

SIGNS

CELL	NAME	DESCRIPTION
	S	SINGLE POST
	S_P	SINGLE POST, PROPOSED
	SB_P	BACK TO BACK, PROPOSED
	SDEL	DELINEATORS
	SPM	PARKING METER
RFM	SRM	REFERENCE MARKERS
	SRSC3	SHLD, CTY, 123 DIG.
	SRSC4	SHLD, CTY, 4 DIG.
	SRSCT2	SHLD, CTY TOUR, 1-2 DIG.
	SRSCT4	SHLD, CTY TOUR, 3-4 DIG.
	SRSI	SHLD, INTERSTATE
	SRSN2	SHLD, NATIONAL, 2 DIG.
	SRSN3	SHLD, NATIONAL, 3 DIG.
	SRSS2	SHLD, STATE, 2 DIG.
	SRSS3	SHLD, STATE, 3 DIG.
	SRSS4	SHLD, STATE, 4 DIG.

TRAFFIC CONTROL

CELL	NAME	DESCRIPTION
	TCBJ	BOX, JUNCTION
	TCBP	BOX, PULL BOX
	TCBS	BOX, SPLICE
	TCMC	MICROCOMPUTER CABINET
	TCPP	PED POLE
	TCSH	SIGNAL HEADS
	TCSP	SIGNAL POLE

TRAFFIC WORK ZONE

CELL	NAME	DESCRIPTION
	TWZAP_P	ARROW PANEL
	TWZAPC_P	ARROW PANEL, CAUTION MODE
	TWZAPT_P	ARROW PANEL, TRAILER OR SUPPORT
	TWZBCD_P	BARRICADE (TYPE III)
	TWZCMS_P	CHANGEABLE MESSAGE SIGN (PVMS)
	TWZFLG_P	FLAGGER
	TWZFT_P	FLAG TREE
	TWZIA_P	IMPACT ATTENUATOR / CRASH CUSHION (TEMPORARY)
	TWZLUM_P	LUMINAIRE (TEMPORARY)
	TWZSDT_P	SYMBOL, DIRECTION OF TRAFFIC
	TWZSDTD_P	SYMBOL, DIRECTION OF TEMPORARY TRAFFIC DETOUR
	TWZSGN_P	SIGN (TEMPORARY)
	TWZSIG_P	SIGNAL, TRAFFIC OR PEDESTRIAN (TEMPORARY)
	TWZWL_P	WARNING LIGHT
	TWZWV_P	WORK VEHICLE
	TWZWVA_P	WORK VEHICLE WITH TRUCK MOUNTED ATTENUATOR

UTILITIES

CELL	NAME	DESCRIPTION
	UEB	ELECTRIC, BOX
	UEM	ELECTRIC, METER
	UEMH	ELECTRIC, MANHOLE
	UEPT	ELECTRIC, POLE, TRANS.
	UGM	GAS, METER
	UGMH	GAS, MANHOLE
	UGLM	GAS, LINE MARKER
FP	UGP	GAS/FUEL PUMP
	UGV	GAS, VALVE
	UGVT	GAS, VENT
	ULP	LIGHTING, POLE
	ULPM	LIGHTING, POLE, MEDIAN
	ULPP	LIGHTING, POLE, PED.
	UMFC	MISC. FILLER CAP
	UOLM	OIL, LINE MARKER
	UP	POLE, WITH UTILITY
	UPD	POLE, DEAD (NO UTILITY)
	UPL	POLE, WITH LIGHT
	USMH	SANITARY SEWER MANHOLE
	UTB	TELEPHONE, BOOTH
	UTLM	TELEPHONE, LINE MARKER
	UTMH	TELEPHONE, MANHOLE
	UTVLM	CABLE TV, LINE MARKER
	UTVPB	CABLE TV, PULL BOX
	UUB	UNKNOWN, BOX
	UUJB	UNKNOWN, JUNCTION BOX
	UUMH	UNKNOWN, MANHOLE
	UUPB	UNKNOWN, PULL BOX
	UUVL	UNKNOWN, VALVE
	UUVT	UNKNOWN, VENT
	UUW	UNKNOWN, WELL
	UWFH	WATER, FIRE HYDRANT
	UWM	WATER, METER
	UWMH	WATER, MANHOLE
	UWV	WATER, VALVE
	UWW	WATER, WELL

NOTES:

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 (0.015 in 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.

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION	PIN 5757.33	BRIDGES 3322810	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED
COUNTY: CATTARAUGUS REGION: 5				LEGEND, LINE, AND POINT SYMBOLOGY
				DRAWING NO. LEG-2 SHEET NO. 4
				CATTARAUGUS COUNTY DEPARTMENT OF PUBLIC WORKS

Stantec

PROJECT MANAGER T. BUTLER
CHECK S. MILLER/T. BUTLER
DRAFTING D. CLARK
CHECK S. MILLER/K. ALBERTS
DESIGN D. CLARK
JOB MANAGER S. MILLER/J. HOFMANN
DESIGN SUPERVISOR J. HOFMANN

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ESTIMATE OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QTY	
201.06	CLEARING AND GRUBBING	LS	1	
202.19	REMOVAL OF SUBSTRUCTURES	CY	1010	
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	9143	
203.03	EMBANKMENT IN PLACE	CY	9400	
203.07	SELECT GRANULAR FILL	CY	252	
203.21	SELECT STRUCTURE FILL	CY	1435	
203.24010017	SHOULDER BACKUP MATERIAL	TON	4	
206.01	STRUCTURE EXCAVATION	CY	4130	
206.0201	TRENCH AND CULVERT EXCAVATION	CY	732	
207.24	GEOTEXTILE STABILIZATION	SY	2205	
207.26	PREFABRICATED COMPOSITE STRUCTURAL DRAIN	SY	278	
208.01030022	BIORETENTION AND DRY SWALE SOIL	CY	401	
209.1003	SEED AND MULCH - TEMPORARY	SY	7960	
209.110102	CHECK DAM (DITCH BOTTOM WIDTH > 3' - 6') STONE - TEMPORARY	EACH	18	
209.13	SILT FENCE-TEMPORARY	LF	654	
209.190301	ROLLED EROSION CONTROL PRODUCT, CLASS II TYPE C,INTERMEDIATE	SY	2510	
304.15	SUBBASE COURSE, OPTIONAL TYPE	CY	708	
402.000013	PLANT PRODUCTION QUALITY ADJUSTMENT TO HMA ITEMS	QU	29	
402.098303	9.5 F3 TOP COURSE HMA, 80 SERIES COMPACTION	TON	135	
402.198903	19 F9 BINDER COURSE HMA, 80 SERIES COMPACTION	TON	175	
402.258903	25 F9 BINDER COURSE HMA, 80 SERIES COMPACTION	TON	270	
407.0102	DILUTED TACK COAT	GAL	175	
418.7603	ASPHALT PAVEMENT JOINT ADHESIVE	LF	518	
490.30	MISCELLANEOUS COLD MILLING OF BITUMINOUS CONCRETE	SY	115	
552.11	PERMANENT STEEL SHEETING	SF	4572	
552.17	SHIELDS AND SHORING	SF	1754	
553.010010	COFFER DAM (TYPE 1)	EACH	1	
553.010020	COFFER DAM (TYPE 1)	EACH	1	
555.08	FOOTING CONCRETE, CLASS HP	CY	490	
555.09	CONCRETE FOR STRUCTURES, CLASS HP	CY	12	
556.0203	GALVANIZED BAR REINFORCEMENT FOR STRUCTURES	LB	47160	
562.0101	REINFORCED CONCRETE SPAN UNITS	SY	272	
562.03	WINGWALL WITH FOOTING	SY	70	
570.090001	ENVIRONMENTAL GROUND PROTECTION	LS	1	
570.100001	ENVIRONMENTAL WATERWAY PROTECTION	LS	1	
595.98200018	SPRAY-APPLIED WATERPROOFING MEMBRANE	SF	4475	
603.171116	GALVANIZED STEEL END SECTIONS - PIPE (2-2/3" X 1/2" CORRUGATIONS) 15 INCH DIAMTER, 16 GAUGE	EACH	6	
603.6101	RCP CULVERT AND STORM DRAIN, 12 INCH DIAMETER	LF	154	
603.7301	REINFORCED CONCRETE PIPE END SECITONS 12 INCH DIAMETER	EACH	2	
603.98100602	SMOOTH INTERIOR PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN PIPE, 6 INCH DIAMETER	LF	62	
603.9812	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 12 INCH DIAMETER	LF	129	
604.301911	RECTANGULAR DRAINAGE STRUCTURE (TYPE S) FOR #11 WELDED FRAME	LF	12	
604.4048	ROUND PRECAST CONCRETE MANHOLE 48 INCH DIAMETER	LF	5	
605.1001	UNDERDRAIN FILTER TYPE 2	CY	25	
606.16	CORRUGATED BEAM GUIDE RAILING	LF	749	
606.22	ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING	EACH	3	
606.23	ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING (DRIVEWAYS, WALKWAYS, AND OTHER OPENINGS)	EACH	3	
606.71	REMOVING AND DISPOSING CORRUGATED BEAM GUIDE RAILING	LF	292	
606.7910	REMOVING AND DISPOSING ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING AND MEDIAN BARRIER	EACH	4	
608.000013	PLANT PRODUCTION QUALITY ADJUSTMENT TO HMA SIDEWALK ITEMS	QU	3	

ITEM	DESCRIPTION	UNIT	QTY	
608.020102	HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS, BICYCLE PATHS, AND VEGETATION CONTROL STRIPS	TON	47	
610.1101	MULCH FOR PLANTING TYPE A, B, & D - WOOD CHIPS AND SHREDDEDBARK	CY	8	
610.1401	TOPSOIL - REUSE ON-SITE MATERIALS	CY	420	
610.1601	TURF ESTABLISHMENT - ROADSIDE	SY	3760	
610.19	WATERING VEGETATION	MGAL	23	
610.21	MOWING	SY	8265	
611.0411	PLANTING - DECIDUOUS SHRUBS - AS SPECIFIED	EACH	19	
619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS	1	
619.04	TYPE III CONSTRUCTION BARRICADE	EACH	10	
619.1702	TEMPORARY CONCRETE BARRIER, (UNPINNED) WITH WARNING LIGHTS	LF	64	
620.04	STONE FILLING (MEDIUM)	CY	207	
620.05	STONE FILLING (HEAVY)	CY	1836	
620.08	BEDDING MATERIAL	CY	425	
620.30010001	ROCK OR CROSS VANES	CY	175	
623.12	CRUSHED STONE (IN-PLACE MEASURE)	CY	208	
625.01	SURVEY OPERATIONS	LS	1	
627.50140008	CUTTING PAVEMENT	LF	42	
637.03	CONCRETE CYLINDER CURING BOX	EACH	1	
637.11	ENGINEER'S FIELD OFFICE - TYPE 1	MNTH	8	
637.34	OFFICE TECHNOLOGY AND SUPPLIES	DC	500	
637.36	CONSTRUCTION TESTING SUPPLIES - CONSUMABLES	DC	100	
645.5102	GROUND-MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF, WITH Z-BARS	SF	40.1	
645.81	TYPE A SIGN POSTS	EACH	11	
646.22	DELINEATOR, SNOWPLOWING MARKER, SUPPLEMENTARY SNOWPLOWING MARKER PANELS	EACH	13	
646.32	STEEL POST, 2.0 LB/FT	EACH	8	
647.31	RELOCATE SIGN PANEL, SIGN PANEL ASSEMBLY SIZE 1 (UNDER 30 SQUARE FEET)	EACH	1	
647.41	REMOVE AND STORE SIGN PANEL, SIGN PANEL ASSEMBLY SIZE 1 (UNDER 30 SQUARE FEET)	EACH	1	
647.61	REMOVE AND DISPOSE SIGNS, GROUND MOUNTED TYPE A SIGN SUPPORTS AND FOUNDATIONS - SIZE I (UNDER 30 SQUARE FOOT)	EACH	13	
655.1011	WELDED FRAME AND RECTANGULAR GRATE 11	EACH	2	
663.0707	POLYETHYLENE WATER SERVICE PIPE, 2"	LF	427	
663.1802	BOLTED, SLEEVE TYPE COUPLING - 2" HDPE TO PVC	EACH	2	
663.2305	POLYETHYLENE ENCASEMENT FOR WATER PIPE - 6-INCHES	LF	60	
663.40	DISCONNECT AND CAP EXISTING WATER MAIN - 2 INCH PVC	EACH	2	
697.03	FIELD CHANGE PAYMENT	DC	117500	
698.04	ASPHALT PRICE ADJUSTMENT	DC	784	
698.05	FUEL PRICE ADJUSTMENT	DC	843	
698.06	STEEL/IRON PRICE ADJUSTMENT	DC	100	
699.040001	MOBILIZATION (4%)	LS	1	

THIS DRAWING IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE DRAWING CONTENTS ARE NOT AN APPROVED FINAL CONSTRUCTION CONTRACT DOCUMENT.

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK

VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION

COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33

BRIDGES 3322810

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ESTIMATE OF QUANTITIES

DRAWING NO. EOQ-1

SHEET NO. 5

CATTARAUGUS COUNTY DEPARTMENT OF PUBLIC WORKS

Stantec

DESIGN SUPERVISOR J. HOFMANN | JOB MANAGER S. MILLER/J. HOFMANN | DESIGN D. CLARK | CHECK K. ALBERTS | DRAFTING D. CLARK | CHECK T. BUTLER | PROJECT MANAGER T. BUTLER | S. MILLER/

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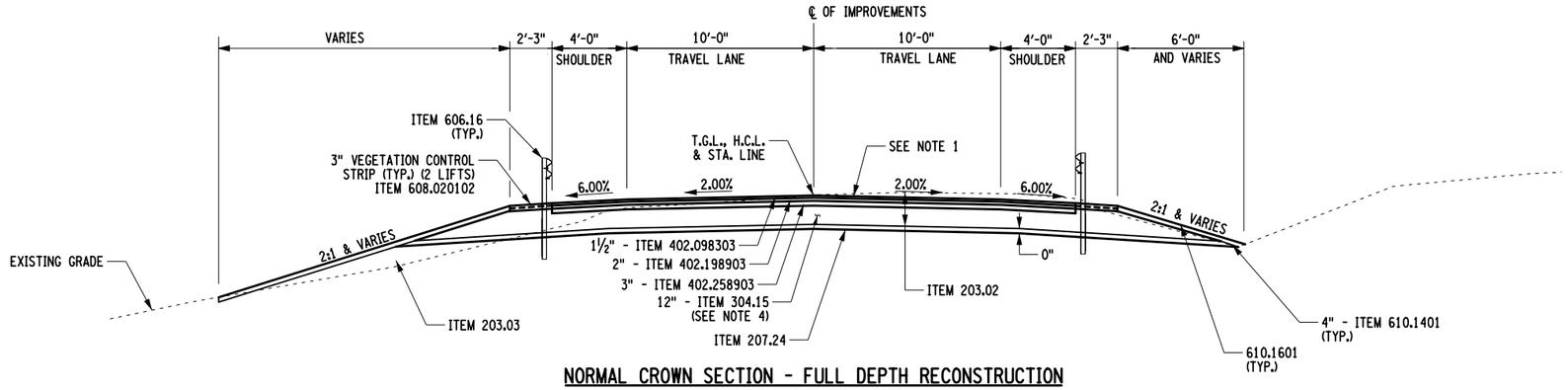
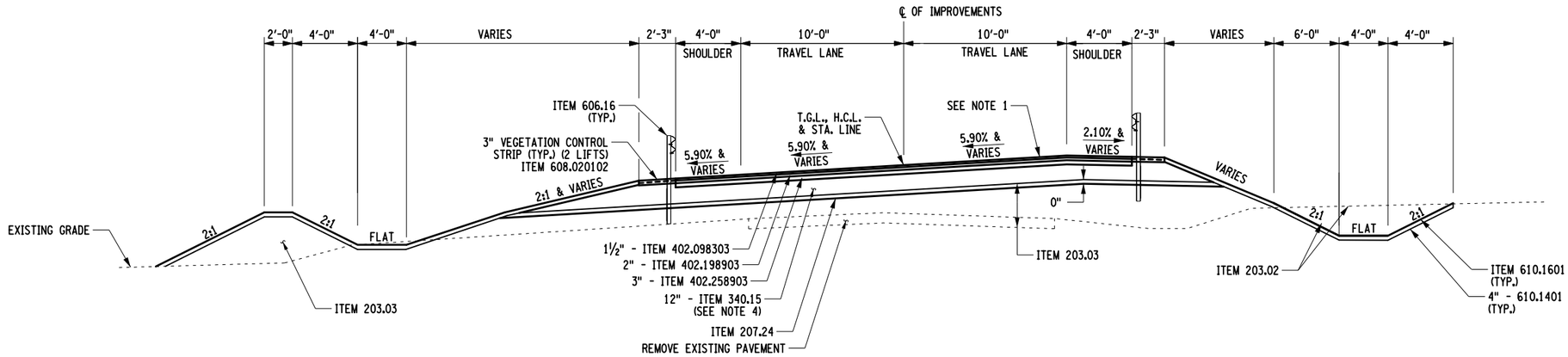


NORMAL CROWN SECTION - FULL DEPTH RECONSTRUCTION

STA. T 9+40 TO STA. T 9+75
N.T.S.



BANKED SECTION - FULL DEPTH RECONSTRUCTION

STA. T 5+00 TO STA. T 9+40
N.T.S.

ITEM	DESCRIPTION	UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY
203.03	EMBANKMENT IN PLACE	CY
207.24	GEOTEXTILE SEPARATION	SY
304.15	SUBBASE COURSE, OPTIONAL TYPE	CY
402.098303	9.5 F3 TOP COURSE HMA, 80 SERIES COMPACTION	TON
402.198903	19 F9 BINDER COURSE HMA, 80 SERIES COMPACTION	TON
402.258903	25 F9 BINDER COURSE HMA, 80 SERIES COMPACTION	TON
407.0102	DILUTED TACK COAT	GAL
418.7603	ASPHALT PAVEMENT JOINT ADHESIVE	LF
606.16	CORRUGATED BEAM GUIDE RAILING	LF
608.020102	HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS, BICYCLE PATHS, AND VEGETATION CONTROL STRIPS	TON
610.1401	TOPSOIL - REUSE ON-SITE MATERIALS	CY
610.1601	TURF ESTABLISHMENT - ROADSIDE	SY

NOTES:

1. ITEM 407.0102 - TACK COAT IS TO BE PLACED BETWEEN ALL ASPHALT LIFTS. SEE SPECIFICATION FOR THE APPLICATION RATE.
2. REMOVAL OF EXISTING GUIDERAIL AND INSTALLATION OF NEW GUIDERAIL TO BE PAID FOR UNDER THEIR RESPECTIVE ITEMS, REFER TO THE GUIDERAIL TABLE ON DWG. MST-1 FOR TYPES, LOCATIONS, AND ITEM NUMBERS. SEE ROADWAY PLANS FOR LAYOUT.
3. TYPICAL SECTIONS SHOWING CUT/FILL OR DRIVEWAY ON ONE SIDE VERSUS THE OTHER MAY BE INTERCHANGED AS CONDITIONS WARRANT.
4. SUBGRADE SLOPE SHALL MATCH THE PAVEMENT SLOPE.
5. BANKING VARIES, REFER TO ROADWAY PROFILE ON PRO-1 FOR RATE OF SUPPERELEVATION AND TRANSITIONS.
6. SHOULDER SHALL SLOPE AWAY FROM CENTERLINE AT ALL LOCATIONS. SHOULDER SLOPE SHALL BE GOVERNED BY MAXIMUM ROLLOVER OF 8%.
7. ASPHALT PAVEMENT JOINT ADHESIVE SHALL BE PLACED ON ALL TOP COURSE PAVEMENT JOINTS OR A.O.B.E..

AFFIX SEAL: SEAN W. MILLER
ON: 8/20/2019

ALTERED BY:
ON:

STATE OF NEW YORK
SEAN W. MILLER
LICENSED PROFESSIONAL ENGINEER
085445

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION

COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33

BRIDGES 3322810

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

TYPICAL ROADWAY SECTIONS

DRAWING NO. TYP-1
SHEET NO. 6

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

DESIGN SUPERVISOR J. HOFMANN | JOB MANAGER S. MILLER/J. HOFMANN | DESIGN D. CLARK | CHECK K. ALBERTS | DRAFTING D. CLARK | CHECK T. BUTLER | PROJECT MANAGER T. BUTLER | S. MILLER /

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WORK ZONE TRAFFIC CONTROL GENERAL NOTES:

SEE NYSDOT STANDARD SHEET 619-10 FOR WORK ZONE TRAFFIC CONTROL GENERAL NOTES, SUPPLEMENTED BY THE FOLLOWING:

GENERAL NOTES:

1. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE, ERECT, AND MAINTAIN NECESSARY TEMPORARY TRAFFIC CONTROL DEVICES, DELINEATOR, SIGNS, AND BARRICADES IN ACCORDANCE WITH THE 2009 EDITION OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", THE NEW YORK STATE SUPPLEMENT TO THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", SECTION 619 OF THE NYSDOT STANDARD SPECIFICATIONS AND NYSDOT 619 STANDARD SHEETS.
2. THE WORK ZONE TRAFFIC CONTROL SCHEMES SHOWN IN THESE PLANS DESCRIBE THE RECOMMENDED METHODS AND CONTROL DEVICES NECESSARY. THE ENGINEER MAY ORDER ADDITIONAL DEVICES AND/OR METHODS TO MEET FIELD CONDITIONS.
3. THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO AVOID DAMAGING EXISTING PAVEMENT, CURBS AND SIDEWALKS WHEN IT IS NECESSARY TO MOVE EQUIPMENT THROUGH LOCAL STREETS. THE CONTRACTOR SHALL OBSERVE ALL OF THE RULES AND REGULATIONS, AND DIRECTIONS OF THE LOCAL MUNICIPALITIES RELATIVE TO SUCH HANDLING OF EQUIPMENT, AND TAKE SUCH PROTECTIVE MEASURES AS HE DEEMS NECESSARY OR A.O.B.E.. LOCAL STREET PAVEMENTS, CURBS, VEGETATION, SIDEWALKS, AND OTHER APPURTENANCES LOCATED WITHIN THE CONTRACT LIMITS THAT ARE NOT SCHEDULED TO BE REPLACED, AND ARE DAMAGED BY THE CONTRACTOR, SHALL BE RESTORED, REPLACED OR REPAIRED (TO THE SATISFACTION OF THE ENGINEER) AT HIS SOLE COST AND EXPENSE.
4. ALL DROP OFFS SHALL BE PROTECTED AS OUTLINED IN SECTION 619 OF THE STANDARD SPECIFICATIONS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS CONSTRUCTION OPERATIONS SO AS TO BE IN CONFORMANCE WITH THE TRAFFIC CONTROL PLANS, AND WITH THAT OF THE AFFECTED UTILITY COMPANIES.
6. IN ORDER TO MAINTAIN EFFECTIVE TRAFFIC CONTROL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE ALL SIGNS, CONES, DRUMS, BARRICADES, ETC. ARE IN PLACE AND IN GOOD CONDITION PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS. THE SOLE JUDGE OF THE EFFECTIVENESS OF THE CONTRACTOR'S EFFORTS TOWARD PROTECTION OF TRAFFIC AND PERSONNEL SHALL BE THE ENGINEER IN CHARGE.
7. PLACEMENT OF HMA BINDER COURSES SHALL OCCUR WITHIN TWO (2) WEEKS OF THE START OF THE BOX-OUT OPERATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION OF THE SUBBASE/SUBGRADE. THE CONTRACTOR IS REMINDED THAT HE MAY NEED TO REGRADE, ADD TO, AND/OR RECOMPACT THE SUBBASE COURSE PRIOR TO PLACEMENT OF THE NEW ASPHALT BINDER COURSE. COST OF THIS EFFORT TO BE INCLUDED IN BID PRICE FOR ASPHALT ITEMS. IF THE PAVEMENT BINDER COURSE IS NOT IN PLACE WITHIN (2) WEEKS, NECESSARY REPAIRS SHALL BE MADE AT NO COST TO THE PROJECT.
8. PROGRESS WITH THE INSTALLATION OF PERMANENT SIGNING AND PAVEMENT MARKINGS AS APPROPRIATE. ALL SIGNS AND MARKINGS MUST BE IN PLACE BEFORE THE OPENING OF ANY PORTIONS OF THE PROJECT. TO ACCOMMODATE FINAL AND/OR DETOUR PATTERNS, CARE MUST BE TAKEN TO ENSURE THAT FINAL SIGNING AND PAVEMENT MARKINGS WILL NOT BE CONTRADICTORY TO PROPOSED OPERATIONS DURING ANY ONE PHASE. FINAL SIGNS IN PLACE BUT NOT IN USE FOR DIRECTING TRAFFIC SHALL BE COVERED.
9. DELINEATION DEVICES CONFORMING TO NYSDOT REQUIREMENTS SHALL BE SPACED AT A DISTANCE OF 30 FEET. THE CONTRACTOR SHALL REDUCE THE SPACING TO 15 FEET THROUGH ALL HORIZONTAL CURVES AND TAPERS WITHIN THE PROJECT. CLOSER SPACING MAY BE REQUIRED IN OTHER AREAS, A.O.B.E.

ACTIVITY AREA:

1. VEHICLES BELONGING TO OR USED BY THE CONTRACTOR OR WORKERS SHALL NOT BE PARKED ON THE PAVEMENT OR SHOULDERS ALONG A ROADWAY BEING USED BY THE GENERAL PUBLIC NOR ON ENVIRONMENTALLY SENSITIVE AREAS. THE CONTRACTOR SHALL NOT PARK EQUIPMENT OR STORE HIS MATERIALS WHERE IT IS DEEMED A HAZARD TO TRAFFIC BY THE ENGINEER.
2. CONSTRUCTION EQUIPMENT SHALL BE REMOVED FROM THE ROADSIDE AREA ALONG A ROADWAY BEING USED BY THE GENERAL PUBLIC DURING ALL NON-WORKING HOURS. PROVIDE A 30 FOOT OFFSET FROM THE EDGE OF THE ROADWAY. THE CLEAR ZONE OFFSET MAY BE REDUCED WHERE EXISTING PAVEMENT OBSTRUCTIONS ARE CLOSER TO THE ROADWAY.
3. NO MATERIAL IS TO BE STORED WITHIN 30 FEET FROM THE EDGE OF PAVEMENT, ALONG A ROADWAY BEING USED BY THE GENERAL PUBLIC EXCEPT THAT WHICH IS TO BE PLACED THAT DAY.
4. TO FACILITATE SAFE ACCESS, ADEQUATE SIGHT DISTANCE FOR CONSTRUCTION WORKERS, EQUIPMENT, AND SUPPLY/DELIVERY VEHICLES ENTERING OR DEPARTING THE WORKSITE MUST BE PROVIDED AT ALL TIMES.
5. WHEN THERE IS ANY INDICATION THAT WORKSITE ACCESS IS A SAFETY CONCERN, SPECIFIC PROVISIONS MAY BE NECESSARY TO ENSURE THAT SAFE ACCESS IS PROVIDED AND USED.
6. WHEN THE VISIBILITY OF THE TRAVELING PUBLIC IS RESTRICTED DUE TO WEATHER CONDITIONS AND/OR THE WORK OPERATIONS COMMENCE PRIOR TO DAWN OR CONTINUE BEYOND DUSK, FLASHING BEACONS AND STEADY BURNING LIGHTS SHALL BE PROVIDED BY THE CONTRACTOR AND PLACED AS DIRECTED BY THE ENGINEER. IF A FLAGGING OPERATION IS NECESSARY BEYOND DAYLIGHT HOURS, THE FLAGGERS AND WORK ZONE SHALL BE ILLUMINATED BY FLOODLIGHTS.

ACTIVITY AREA (CONTINUED):

7. THE CONTRACTOR SHALL SCHEDULE OPERATIONS SO THAT TRAFFIC WILL BE MAINTAINED ON A PAVED AND/OR GRAVEL SURFACE DURING NON WORKING HOURS OR A.O.B.E.
8. WHENEVER THE TRAFFIC IS LIMITED TO A ONE-WAY OPERATION, FLAGGERS SHALL BE UTILIZED. THE FLAGGERS WILL BE REQUIRED TO USE RADIO OR FIELD TELEPHONE CONTACT WHEN THEY ARE MAINTAINING ONE-WAY TRAFFIC AND ONE FLAGGER IS NOT VISIBLE TO THE OTHER, OR IF IN THE OPINION OF THE ENGINEER, THIS COMMUNICATION IS NECESSARY. THE COST OF ANY RADIO OR FIELD TELEPHONES USED SHALL BE INCLUDED IN THE PRICE BID FOR BASIC WORK ZONE TRAFFIC CONTROL (ITEM 619.01).

SIGNS:

1. DUE TO UNFORESEEN CONDITIONS, ADDITIONAL CONSTRUCTION SIGNS NOT SHOWN ON THE PLANS MAY BE REQUIRED BY THE ENGINEER. THE COST OF ALL CONSTRUCTION SIGNS IS TO BE INCLUDED IN THE PRICE BID FOR ITEM 619.01.
2. THE CONTRACTOR SHALL PATROL THE CONSTRUCTION ZONE AND ITS APPROACHES DAILY TO ENSURE THAT ALL WORK ZONE TRAFFIC CONTROL SIGNS ARE PROPERLY POSITIONED AND LEGIBLE. THE CONTRACTOR SHALL PROVIDE "BUMP" AND "ROUGH ROAD NEXT XX MILES" SIGNS AS NECESSARY. DAMAGED SIGNS SHALL BE REPAIRED OR REPLACED, A.O.B.E.
3. THE TEMPORARY COVERING AND/OR REMOVING, RELOCATING AND REPLACING OF EXISTING SIGN PANELS AND ASSEMBLIES SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. PAYMENT SHALL BE INCLUDED IN THE PRICE BID FOR BASIC WORK ZONE TRAFFIC CONTROL (ITEM 619.01). SIGNS WHICH ARE NOT APPLICABLE DURING WORKING AND/OR NON-WORKING HOURS SHALL BE COVERED OR REMOVED FROM VIEW (A.O.B.E.).
4. CARE SHOULD BE TAKEN SO AS NOT TO DAMAGE THE PERMANENT SIGNS IF THEY ARE COVERED. ANY SIGN SO DAMAGED SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER, AT NO ADDITIONAL COST TO THE COUNTY.

EMERGENCY AND PUBLIC ACCESS:

1. AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR MUST PROVIDE SAFE AND CONVENIENT EMERGENCY ACCESS. THE CONTRACTOR IS REQUIRED TO DESIGNATE A CONTACT PERSON WHO WILL MAKE AND MAINTAIN ADEQUATE COMMUNICATION AND COORDINATION WITH LOCAL FIRE AND POLICE AUTHORITIES AND AMBULANCE SERVICES. CONTACT SHALL BE MADE PRIOR TO THE BEGINNING OF CONSTRUCTION AND MAINTAINED ON A CONTINUOUS ONGOING BASIS, AND IN A TIMELY FASHION. AUTHORITIES SHALL BE ADVISED OF THE CONTRACTOR'S PROGRESS AND SCHEDULE SO THAT EMERGENCY SERVICE PERSONNEL CAN PLAN TO MAKE ANY NECESSARY ADJUSTMENTS TO THEIR ROUTES AND METHOD OF OPERATIONS. THE CONTACT PERSON SHALL HAVE THE AUTHORITY TO MAKE AND IMPLEMENT DECISIONS REGARDING THE CONTRACTOR'S OPERATIONS. TIMELY NOTIFICATION SHALL BE TO THE SATISFACTION OF THE ENGINEER.
2. THE CONTRACTOR IS REQUIRED TO MAKE PERSONAL CONTACT WITH APPROPRIATE SCHOOL OFFICIALS IN RESPECT TO THE EFFECT OF ROAD CLOSINGS OR DETOURS ON SCHOOL BUS OPERATION AND PEDESTRIAN (SCHOOL CHILDREN) ROUTES. THIS SHOULD BE DONE SEVERAL WEEKS IN ADVANCE OF ANY CLOSING OR IMPLEMENTATION OF DETOURS SO THAT THERE WILL BE ADEQUATE TIME FOR THE SCHOOL TO MAKE NECESSARY ADJUSTMENTS TO THEIR SCHEDULES AND ROUTES.

DUST CONTROL:

1. DUST CONTROL WILL BE CLOSELY MONITORED BY THE ENGINEER-IN-CHARGE. IF IN THE OPINION OF THE E.I.C., DUSTY CONDITIONS EXIST AS A RESULT OF THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR SHALL CORRECT THE CONDITION BY USE OF CALCIUM CHLORIDE AND WATER AS SPECIFIED IN SECTION 619-03.02A (BASIC WORK ZONE TRAFFIC CONTROL) OF THE STANDARD SPECIFICATIONS (US CUSTOMARY UNITS), LATEST EDITION. THE COST OF ANY DUST CONTROL MEASURES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR BASIC WORK ZONE TRAFFIC CONTROL (ITEM 619.01).

CHANNELIZING DEVICES:

1. REFER TO THE "TAPERS" SECTION IN THE "CONSTRUCTION DETAILS" OF SECTION 619 OF THE STANDARD SPECIFICATIONS FOR AN APPROVED LIST OF CHANNELIZING DEVICES THAT CAN BE USED ON TAPERS IN A WORK ZONE.
2. ALL TEMPORARY PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OUTLINED UNDER "CONSTRUCTION ZONE PAVEMENT MARKINGS" IN SECTION 619 OF THE STANDARD SPECIFICATIONS. ALL TEMPORARY MARKING PATTERNS SHALL BE AS SHOWN ON THE PLANS, OR A.O.B.E. COST OF ANY TEMPORARY PAVEMENT MARKINGS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01 - BASIC WORK ZONE TRAFFIC CONTROL. NO SEPARATE PAYMENT WILL BE MADE FOR THE INSTALLATION OF TEMPORARY PAVEMENT MARKINGS.
3. AT THE START OF WORK ON THE PROJECT, ALL WORK ZONE TRAFFIC CONTROL DEVICES SHALL APPEAR IN "ACCEPTABLE" CONDITION AS PICTURED IN THE AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) MANUAL, GUIDELINES FOR THE WORK ZONE TRAFFIC CONTROL DEVICES. THESE DEVICES SHALL NOT BE ALLOWED TO FALL BELOW THE "MARGINAL" CONDITION AT ANY TIME DURING THE DURATION OF THE PROJECT.
4. THE CONTRACTOR SHALL MAINTAIN EXISTING PAVEMENT MARKINGS WITHIN THE CONSTRUCTION LIMITS WHERE ORDERED BY THE ENGINEER. THE COST OF THIS SHALL BE INCLUDED IN THE PRICE BID FOR BASIC WORK ZONE TRAFFIC CONTROL (ITEM 619.01).
5. ANY EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE REMOVED, AS ORDERED BY THE ENGINEER (A.O.B.E.). THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR BASIC WORK ZONE TRAFFIC CONTROL (ITEM 619.01).
6. PAYMENT FOR DELINEATION DEVICES (CONES, DRUMS) ARE INCLUDED UNDER ITEM 619.01, BASIC WORK ZONE TRAFFIC CONTROL.
7. THE ROADWAY CAN NOT BE OPEN TO THE PUBLIC UNTIL ALL PERMANENT PAVEMENT MARKINGS HAVE BEEN INSTALLED AS INDICATED ON THE SPM DWGS. NO TEMPORARY PAVEMENT MARKINGS WILL BE USED ON THIS PROJECT. THE TEMPOARY CONCRETE BARRIERS AND TYPE III BARRICADES USED TO CLOSE THE ROAD ON DWG. WZP-2 SHALL REMAIN IN PLACE UNTIL THE ROAD IS OPEN TO THE PUBLIC OR A.O.B.E..

UTILITIES:

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

GENERAL CONSTRUCTION STAGING NOTES:

1. THE CONTRACTOR SHALL COMPLETELY CLOSE ROADWAY/BRIDGE DURING CONSTRUCTION AND PROVIDE AN OFFSITE DETOUR ROUTE FOR TRAFFIC AS SHOWN ON DWG. WZP-3 UNDER ITEM 619.01. ADVANCE WARNING SIGNS SHALL BE PLACED PRIOR TO CLOSING THE ROADWAY TO FOREWARN TRAFFIC OF FUTURE ROADWAY/BRIDGE CLOSURE AS SHOWN ON DWG. WZP-2.
2. THE CONTRACTOR SHALL MAINTAIN TRAFFIC ON APPROACH ROADWAY FOR LOCAL RESIDENCES AT ALL TIMES DURING CONSTRUCTION. THERE SHALL BE NO DROP-OFFS OR ELEVATION DIFFERENCES THAT WOULD PREVENT LOCAL TRAFFIC TO ACCESS PRIVATE DRIVES LOCATED WITHIN THE PROJECT LIMITS. IF NECESSARY, TEMPORARY DRIVES MUST BE ESTABLISHED AND MAINTAINED.

WORK ZONE TRAFFIC CONTROL SIGN TABLE:

SEE NYSDOT STANDARD SHEET 619-12 FOR WORK ZONE TRAFFIC CONTROL SIGN TABLE, SUPPLEMENTED BY THE FOLLOWING:

WORK ZONE TRAFFIC CONTROL SIGN TABLE

SIGN	M.U.T.C.D. CODE	COLOR CODE	CONVENTIONAL ROAD	EXPRESSWAY	FREEWAY
Tannery St (WHITE LEGEND ON GREEN BACKGROUND)	D3-1	A	48"X12"	63"x18"	63"x18"

NOTE:
SEE DWGS WZP-2 THROUGH WZP-3 FOR SIGN PLACEMENT

AFFIX SEAL: SEAN W. MILLER
ON: 8/20/2019

ALTERED BY:
ON:

STATE OF NEW YORK · SEAN W. MILLER · LICENSED PROFESSIONAL ENGINEER · 085445

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION
COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33

BRIDGES 3322810

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

WORK ZONE TRAFFIC CONTROL PLAN
GENERAL NOTES

DRAWING NO. WZP-1
SHEET NO. 7

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

DESIGN SUPERVISOR J. HOFMANN | JOB MANAGER S. MILLER/J. HOFMANN | DESIGN D. CLARK | CHECK S. MILLER/ K. ALBERTS | DRAFTING D. CLARK | CHECK S. MILLER / T. BUTLER | PROJECT MANAGER T. BUTLER

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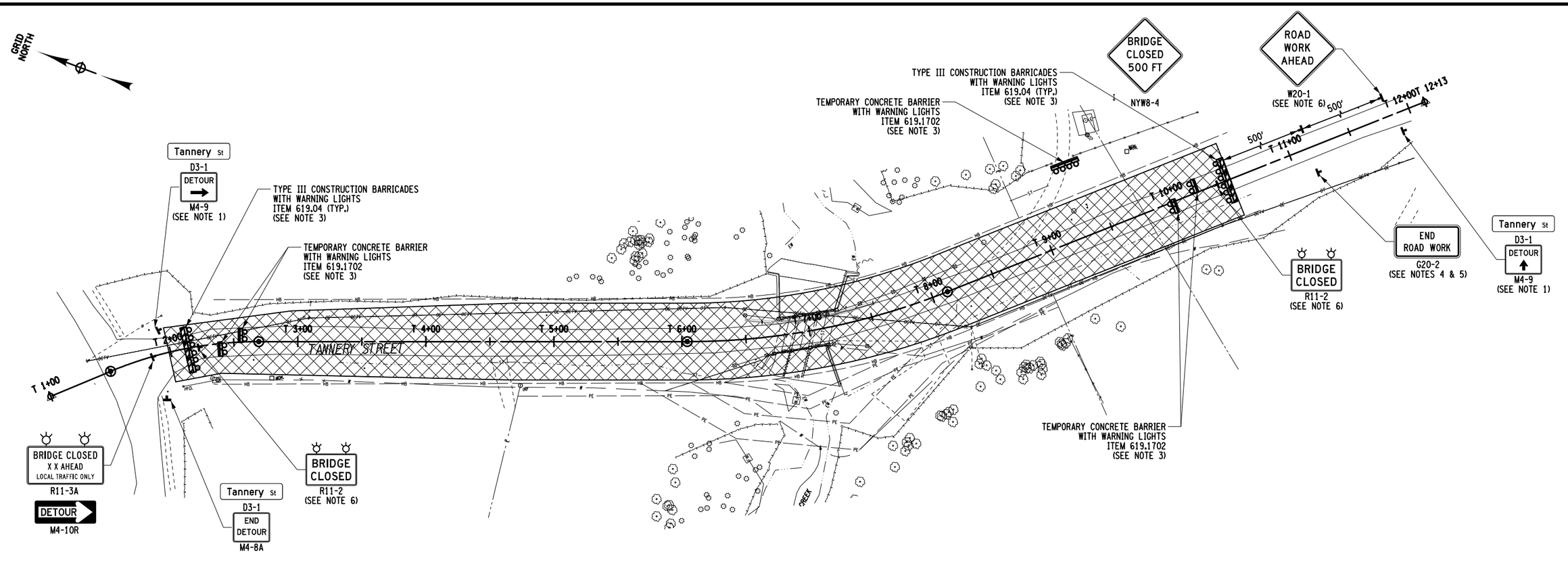
USER = blambert



WORK ZONE TRAFFIC CONTROL - APPROACH SIGNS / BRIDGE CLOSURE DETAIL

LEGEND

- WORK ZONE - ROAD CLOSURE AREA
- TEMPORARY CONCRETE BARRIERS WITH WARNING LIGHTS (SEE NOTE 4)
- TYPE III BARRICADE WITH WARNING LIGHTS (SEE NOTE 4)
- SIGN (TEMPORARY)
- FLASHING LIGHT, TYPE 'A' LOW INTENSITY FLASHING

NOTES:

1. CONFIRMATION SIGNING SHALL BE PLACED EVERY 200 FEET FROM THE INTERSECTION AND REPEATED A MINIMUM DISTANCE OF EVERY 1/2 MILE.
2. THE SIGN PANEL DIMENSIONS FOR THE SIGNS SHOWN SHALL BE AS LISTED IN THE SIGN TABLE FOR THE SECTION 619 OF THE LATEST VERSION OF THE NYSDOT US CUSTOMARY STANDARD SHEETS OR AS SHOWN ON DWG. WZP-1.
3. THE LOCATION OF THE TEMPORARY CONCRETE BARRIER IS TO BE DETERMINED BY THE ENGINEER. THE TYPE III BARRICADES AND TEMPORARY CONCRETE BARRIER WILL ONLY PAY FOR THE INITIAL PLACEMENT OF THE ITEMS, NO EXTRA PAYMENT WILL BE MADE FOR MOVING AND RESETTING THE TEMPORARY CONCRETE BARRIER AND TYPE III BARRICADES FOR DAILY WORK OPERATIONS. THE COST OF MOVING AND RESETTING THE TYPE III BARRICADES AND TEMPORARY CONCRETE BARRIERS SHALL BE INCLUDED IN THE COST OF 619.01 - BASIC WORK ZONE TRAFFIC CONTROL.
4. END ROAD WORK SIGN (G20-2) SHALL BE PLACED NO MORE THAN 500 FT BEYOND THE END OF THE WORK ZONE OR A.O.B.E.
5. THESE SIGNS SHALL BE INSTALLED PRIOR TO THE BEGINNING OF ANY WORK WITHIN THE PROJECT LIMITS.
6. THE CONTRACTOR SHALL INSTALL THE "ROAD CLOSED" (R11-2) SIGN ON ITS OWN TEMPORARY SIGN SUPPORT BEHIND THE TYPE III BARRICADES AT A MOUNTING HEIGHT OF 5 FEET. COST OF TEMPORARY SIGN SUPPORT SHALL BE INCLUDED IN PRICE BID FOR ITEM 619.01-BASIC WORK ZONE TRAFFIC CONTROL.
7. WHEN THE DETOUR IS NOT IN USE, THE CONTRACTOR SHALL COVER OR TAKE DOWN THE DETOUR RELATED SIGNS

0 40 80 120

PROJECT MANAGER T. BUTLER
CHECK S. MILLER / T. BUTLER
DRAFTING D. CLARK
CHECK S. MILLER/ K. ALBERTS
JOB MANAGER S. MILLER/J. HOFMANN
DESIGN D. CLARK
DESIGN SUPERVISOR J. HOFMANN

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USER = blumbert

AFFIX SEAL: SEAN W. MILLER ON: 8/20/2019	ALTERED BY: ON:

STATE OF NEW YORK · SEAN W. MILLER · LICENSED PROFESSIONAL ENGINEER · 085445 · EXCELSIOR

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION
COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33
BRIDGES 3322810
CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

WORK ZONE TRAFFIC CONTROL PLAN
APPROACH SIGNS / BRIDGE CLOSURE DETAIL

DRAWING NO. WZP-2
SHEET NO. 8

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

DETOUR SIGN SCHEDULE

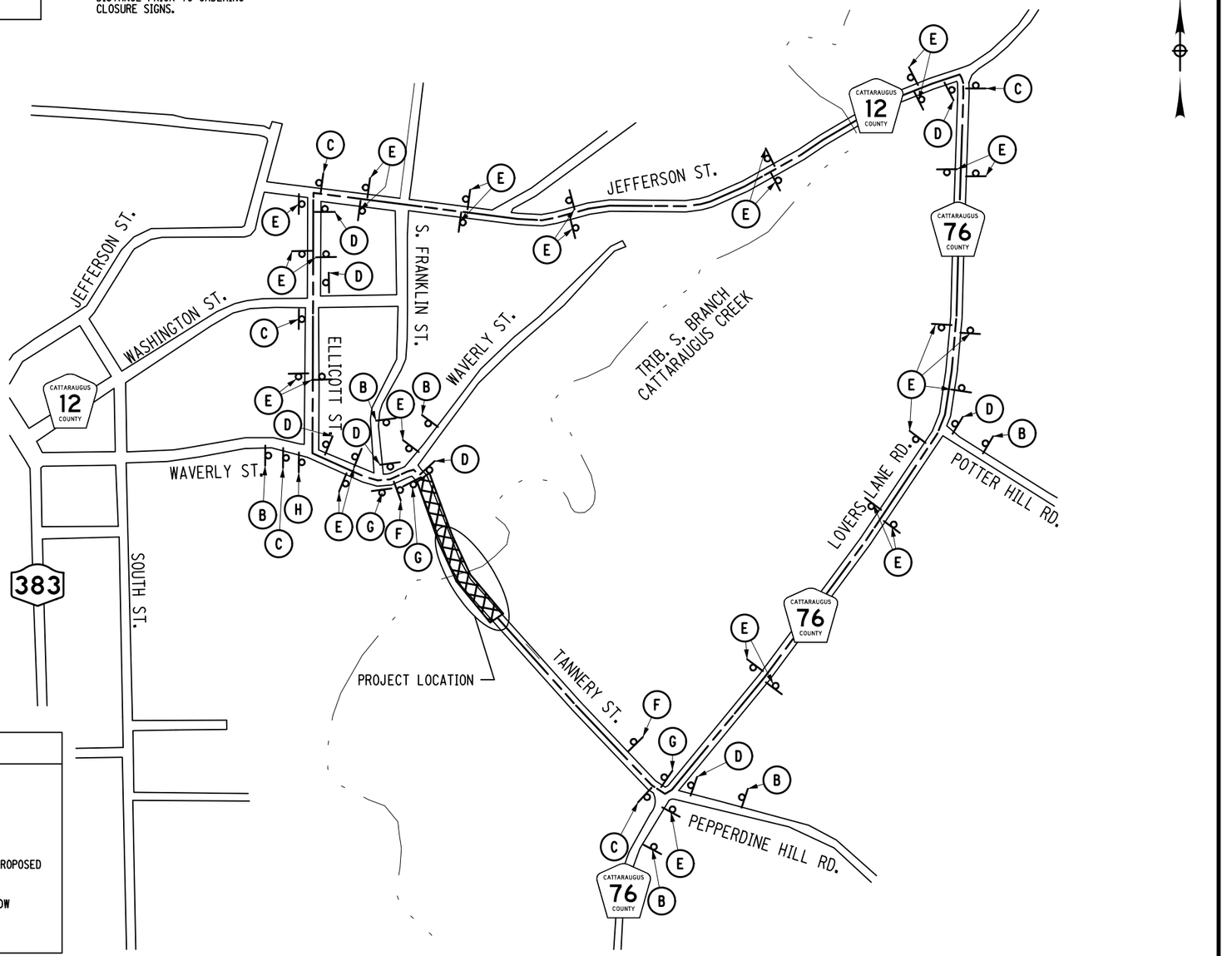
Ⓐ	BRIDGE CLOSED R11-2	Ⓑ	DETOUR AHEAD W20-2 (SEE NOTE 4)	Ⓒ	Tannery St D3-1 DETOUR ← M4-9	Ⓓ	Tannery St D3-1 DETOUR → M4-9	Ⓔ	Tannery St D3-1 DETOUR ↑ M4-9 SEE NOTE 1
Ⓕ	Tannery St D3-1 END DETOUR M4-8a	Ⓖ	BRIDGE CLOSED X X AHEAD LOCAL TRAFFIC ONLY R11-3a DETOUR → M4-10R (SEE NOTE 5)	Ⓗ	BRIDGE CLOSED X X AHEAD LOCAL TRAFFIC ONLY R11-3a ← DETOUR M4-10L (SEE NOTE 5)				

CLOSURE DISTANCE TABLE

STREET	DISTANCE (SEE NOTE 1)
ELLICOTT ST	500 FT
WAVERLY ST	0 FT
LOVERS LANE	¼ MILE

CLOSURE DISTANCE TABLE NOTES:

1. THE CONTRACTOR SHALL VERIFY DISTANCE PRIOR TO ORDERING CLOSURE SIGNS.



LEGEND

- PROPOSED DETOUR ROUTE
- WORK ZONE
- APPROXIMATE LOCATION OF PROPOSED GROUND MOUNTED SIGN
- FLASHING LIGHT, TYPE 'A' LOW INTENSITY FLASHING

NOTES:

1. CONFIRMATION SIGNING SHALL BE PLACED 200 FEET FROM THE INTERSECTION AND REPEATED A MINIMUM DISTANCE OF EVERY ½ MILE.
2. THE ADVANCE TURN SIGN ASSEMBLIES SHALL BE PLACED 1000 FEET BEFORE THE INTERSECTION, OR A.O.B.E.
3. THE SIGN PANEL DIMENSIONS FOR THE SIGNS IN THE DETOUR SIGN SCHEDULE SHALL BE AS LISTED IN THE SIGN TABLE FOR THE SECTION 619 OF THE LATEST VERSION OF THE NYSDOT US CUSTOMARY STANDARD SHEETS OR AS SHOWN ON THIS SHEET.
4. THE W20-2 (DETOUR 1500 FT / DETOUR AHEAD) SIGN SHALL BE PLACED 500 FEET PRIOR TO THE DIRECTIONAL TURN SIGN ASSEMBLIES.
5. SEE THE CLOSURE DISTANCE TABLE TO SEE THE DISTANCE TO PUT ON THE BRIDGE CLOSED AHEAD SIGN PANELS FOR SIGNS Ⓖ & Ⓗ THE CONTRACTOR SHALL MOUNT THESE SIGNS ON A TEMPORARY SIGN SUPPORT ABOVE TYPE III BARRICADES. THE SIGNS SHALL BE MOUNTED WITH A MINIMUM MOUNTING HEIGHT OF 5 FEET.

AFFIX SEAL: SEAN W. MILLER
ON: 8/20/2019

STATE OF NEW YORK · SEAN W. MILLER · LICENSED PROFESSIONAL ENGINEER · 085445

ALTERED BY:
ON:

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION
COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33

BRIDGES 3322810

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

WORK ZONE TRAFFIC CONTROL PLAN
OFF-SITE DETOUR PLAN

DRAWING NO. WZP-3
SHEET NO. 9

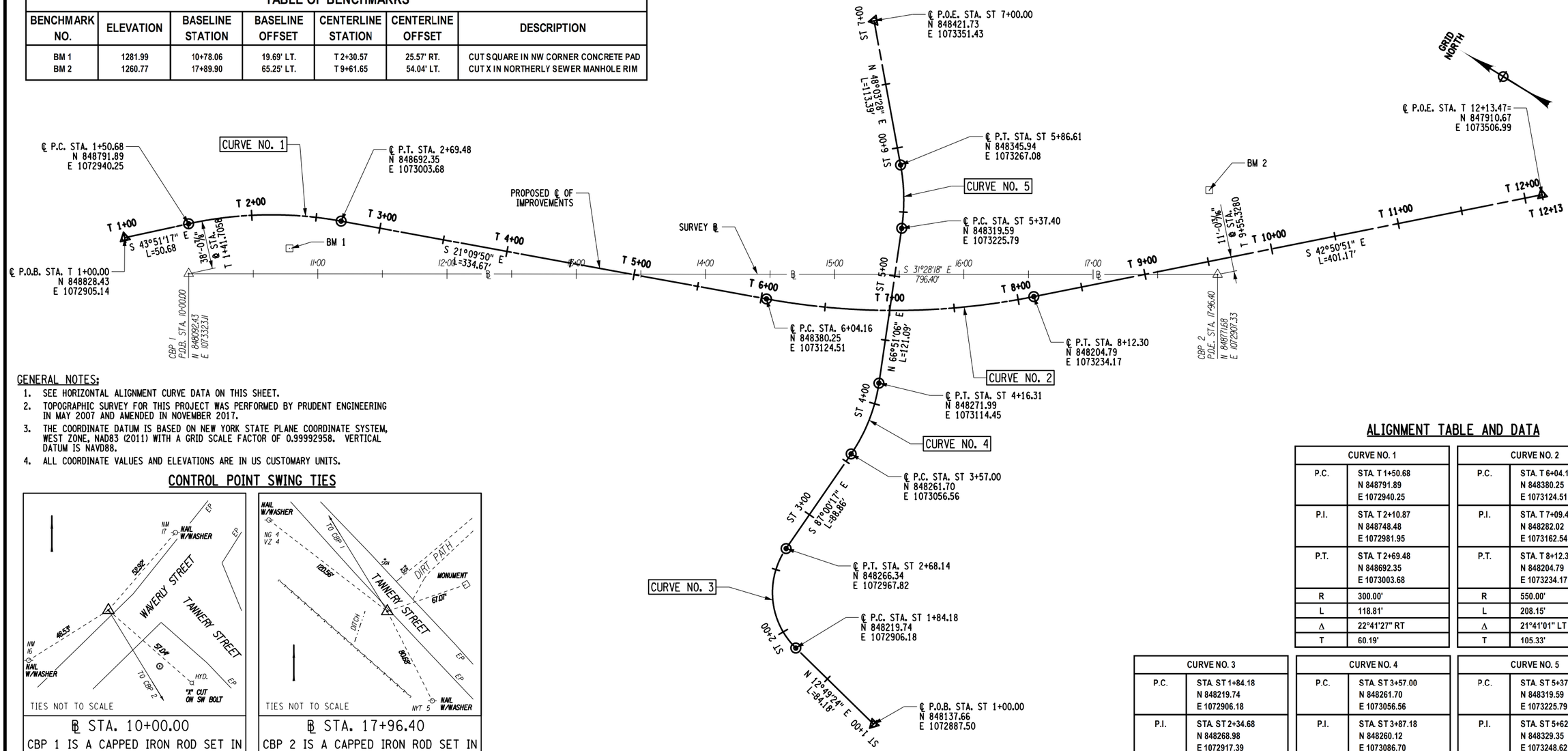
CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

DESIGN SUPERVISOR J. HOFMANN
JOB MANAGER S. MILLER/J. HOFMANN
DESIGN D. CLARK
DRAFTING D. CLARK
CHECK S. MILLER/ K. ALBERTS
CHECK T. BUTLER
PROJECT MANAGER T. BUTLER

FILE NAME = Us0192500172@Transportation@design@drawing@Plan Set@9 - WZP-3.dgn
DATE/TIME = 9/16/2019 2:35:41 PM
USER = blambert

TABLE OF BENCHMARKS						
BENCHMARK NO.	ELEVATION	BASELINE STATION	BASELINE OFFSET	CENTERLINE STATION	CENTERLINE OFFSET	DESCRIPTION
BM 1	1281.99	10+78.06	19.69' LT.	T 2+30.57	25.57' RT.	CUT SQUARE IN NW CORNER CONCRETE PAD
BM 2	1260.77	17+89.90	65.25' LT.	T 9+61.65	54.04' LT.	CUT X IN NORTHERLY SEWER MANHOLE RIM



GENERAL NOTES:

1. SEE HORIZONTAL ALIGNMENT CURVE DATA ON THIS SHEET.
2. TOPOGRAPHIC SURVEY FOR THIS PROJECT WAS PERFORMED BY PRUDENT ENGINEERING IN MAY 2007 AND AMENDED IN NOVEMBER 2017.
3. THE COORDINATE DATUM IS BASED ON NEW YORK STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD83 (2011) WITH A GRID SCALE FACTOR OF 0.99992958. VERTICAL DATUM IS NAVD88.
4. ALL COORDINATE VALUES AND ELEVATIONS ARE IN US CUSTOMARY UNITS.

CONTROL POINT SWING TIES

℄ STA. 10+00.00
CBP 1 IS A CAPPED IRON ROD SET IN GROUND OFF WEST EDGE OF PAVEMENT
NYSPCS WEST ZONE
N: 848771.68
E: 1072907.33

℄ STA. 17+96.40
CBP 2 IS A CAPPED IRON ROD SET IN GROUND OFF WEST EDGE OF PAVEMENT
NYSPCS WEST ZONE
N: 848092.43
E: 1073323.11

ALIGNMENT TABLE AND DATA

CURVE NO. 1	
P.C.	STA. T 1+50.68 N 848791.89 E 1072940.25
P.I.	STA. T 2+10.87 N 848748.48 E 1072981.95
P.T.	STA. T 2+69.48 N 848692.35 E 1073003.68
R	300.00'
L	118.81'
Δ	22°41'27" RT
T	60.19'

CURVE NO. 2	
P.C.	STA. T 6+04.16 N 848380.25 E 1073124.51
P.I.	STA. T 7+09.49 N 848282.02 E 1073162.54
P.T.	STA. T 8+12.30 N 848204.79 E 1073234.17
R	550.00'
L	208.15'
Δ	21°41'01" LT
T	105.33'

CURVE NO. 3	
P.C.	STA. ST 1+84.18 N 848219.74 E 1072906.18
P.I.	STA. ST 2+34.68 N 848268.98 E 1072917.39
P.T.	STA. ST 2+68.14 N 848266.34 E 1072967.82
R	60.00'
L	83.96'
Δ	80°10'18" RT
T	50.50'

CURVE NO. 4	
P.C.	STA. ST 3+57.00 N 848261.70 E 1073056.56
P.I.	STA. ST 3+87.18 N 848260.12 E 1073086.70
P.T.	STA. ST 4+16.31 N 848271.99 E 1073114.45
R	130.00'
L	59.32'
Δ	26°08'37" LT
T	30.18'

CURVE NO. 5	
P.C.	STA. ST 5+37.40 N 848319.59 E 1073225.79
P.I.	STA. ST 5+62.23 N 848329.35 E 1073248.62
P.T.	STA. ST 5+86.61 N 848345.94 E 1073267.08
R	150.00'
L	49.20'
Δ	18°47'38" LT
T	24.82'

0 40 80 120

AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION
COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33
BRIDGES 3322810
CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

SURVEY CONTROL SHEET

DRAWING NO. SCS-1
SHEET NO. 10

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

DESIGN SUPERVISOR J. HOFMANN
DRAFTING D. CLARK
JOB MANAGER S. MILLER/J. HOFMANN
DESIGN D. CLARK
CHECK K. ALBERTS
PROJECT MANAGER T. BUTLER
S. MILLER / T. BUTLER
CHECK

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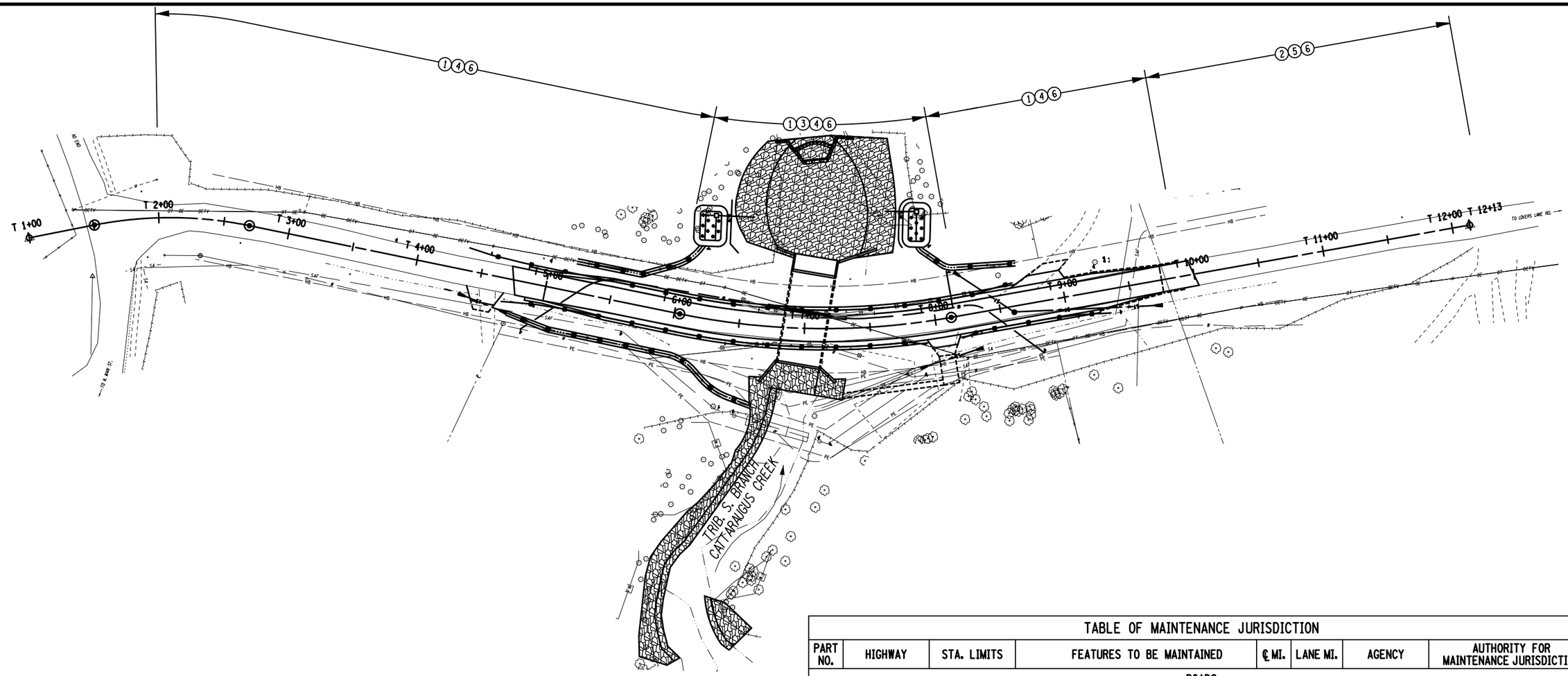

TABLE OF MAINTENANCE JURISDICTION							
PART NO.	HIGHWAY	STA. LIMITS	FEATURES TO BE MAINTAINED	℄ MI.	LANE MI.	AGENCY	AUTHORITY FOR MAINTENANCE JURISDICTION
ROADS							
1	TANNERY STREET	2+00 TO 9+78	MAINLINE ROADWAY, INCLUDING PAVEMENT, SHOULDERS, GUIDERAIL, EMBANKMENTS, STONE DITCH, DRAINAGE SYSTEMS, LANDSCAPING, SIGNS, STRIPING, & HIGHWAY APPURTENANCES	0.15	0.30	VILLAGE OF CATTARAUGUS	SECTION 81 HIGHWAY LAW
2	TANNERY STREET	9+78 TO 12+13		0.04	0.08	TOWN OF NEW ALBION	SECTION 81 HIGHWAY LAW
STRUCTURE							
3	TANNERY STREET	6+00 TO 8+20	ENTIRE STRUCTURE, INCLUDING STRUCTURE EMBANKMENTS, STONE FILL, AND BIORETENTION FACILITIES	0.04	0.08	CATTARAUGUS COUNTY	SECTION 130 HIGHWAY LAW
SNOW REMOVAL							
4	TANNERY STREET	2+00 TO 9+78	SNOW REMOVAL, ICE CONTROL, AND PAVEMENT CLEANING ON PART NO. 1, 2, 3, 4	0.15	0.30	VILLAGE OF CATTARAUGUS	SECTION 140 HIGHWAY LAW
5	TANNERY STREET	9+78 TO 12+13		0.04	0.08	TOWN OF NEW ALBION	
PUBLIC UTILITIES							
6	TANNERY STREET	2+00 TO 12+13	WATER DISTRIBUTION MAIN AND SANITARY SEWER	0.19	0.38	VILLAGE OF CATTARAUGUS	VILLAGE CODE

NOTES:

1. PART NO. REFERS TO THE CORRESPONDING CIRCLED NO. ON MAINTENANCE JURISDICTION PLAN.
2. ALL EXISTING SANITARY SEWERS NOT DEEMED TO BE PART OF THE PROJECT BY THE SUPERINTENDENT OF HIGHWAYS, WATER MAINS, HYDRANTS, AND OTHER MUNICIPALLY OR PRIVATELY OWNED FACILITIES WITHIN THE LIMITS OF THE HIGHWAY R.O.W. WHICH REMAIN IN SERVICE UNCHANGED; AND ALL SUCH FACILITIES RELOCATED OR PROTECTED AS PART OF THE WORK PERFORMED UNDER THE PROJECT, WHETHER CROSSING, LOCATED WITHIN, OR ADJACENT TO THE R.O.W. SHALL BE MAINTAINED AS THE CASE MAY BE, BY THE MUNICIPALITY OR BY THE AGENCY OR UNIT OWNING OR HAVING CONTROL AND JURISDICTION THEREOF AT NO COST OR EXPENSE TO THE COUNTY.
3. THE PORTION OF THE DRIVEWAY, CONSTRUCTED OR ADJUSTED UNDER THE PROJECT BETWEEN THE EDGE OF PAVEMENT AND THE OUTSIDE EDGE OF SHOULDER SHALL BE MAINTAINED BY THE TOWN. THE REMAINING PORTION OF THE ADJUSTED DRIVEWAY BEYOND THE OUTSIDE EDGE OF SHOULDER SHALL BE MAINTAINED BY OWNER(S) UNDER SECTION 54-A OF THE HIGHWAY LAW. THIS SHALL INCLUDE SNOW REMOVAL. ALSO ENTRANCE STAIRS AND WALKWAYS SHALL BE MAINTAINED BY THE OWNER(S) UNDER SECTION 54-A OF THE HIGHWAY LAW.
4. THIS MAINTENANCE JURISDICTION TABLE INDICATES THE DIVISION OF RESPONSIBILITY FOR MAINTENANCE OF THIS PROJECT AFTER THE COMPLETION OF CONSTRUCTION. IT IN NO WAY RELIEVES THE CONTRATOR OF HIS RESPONSIBILITY TO MAINTAIN AND PROTECT TRAFFIC AS PROVIDED BY ITEM 619 DURING CONSTRUCTION.

0 40 80 120

THIS DRAWING IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE DRAWING CONTENTS ARE NOT AN APPROVED FINAL CONSTRUCTION CONTRACT DOCUMENT.

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION

COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33

BRIDGES 3322810

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

MAINTENANCE JURISDICTION PLAN

DRAWING NO. MJP-1
SHEET NO. 11

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

PROJECT MANAGER T. BUTLER
CHECK S. MILLER/ T. BUTLER
DRAFTING D. CLARK
JOB MANAGER S. MILLER/J. HOFMANN
DESIGN D. CLARK
CHECK S. MILLER/ K. ALBERTS
DESIGN SUPERVISOR J. HOFMANN

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USER = blambert

GUIDE RAIL TABLE

ITEM NO.	DESCRIPTION	PAY UNIT
606.16	CORRUGATED BEAM GUIDE RAILING	LF
606.22	ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING	EA
606.23	ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING (DRIVEWAYS, WALKWAYS, AND OTHER OPENINGS)	EA

LOCATION				POST SPACING (FT)	PAYMENT FACTOR	PLAN LENGTH (FT)	SHOP CURVE RADIUS*	END SECTION TYPE	606.16	606.22	606.23
FROM		TO									
STA.	SIDE	STA.	SIDE								
T 4+69.04	RT.	T 7+90.90	RT.	12.5	1.0	327.0	-	-	289	1	1
T 8+18.22	RT.	T 9+32.70	RT.	12.5	1.0	115.0	-	-	77	1	1
T 4+37.44	LT.	T 8+62.32	LT.	12.5	1.0	420.0	-	-	382	- 1	- 1
								TOTALS:	748	3	3

* SHOP CURVE RADIUS IS MEASURED AT THE CONCAVE FACE OF THE CURVED RAIL FOR THE SHOP CURVE

GUIDE RAIL REMOVAL TABLE

ITEM NO.	DESCRIPTION	PAY UNIT
606.71	REMOVING AND DISPOSING CORRUGATED BEAM GUIDE RAILING	LF
606.7910	REMOVING AND DISPOSING ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING AND MEADIAN BARRIER	EA

LOCATION				LENGTH (FT)	606.71	606.7910
FROM		TO				
STA.	SIDE	STA.	SIDE			
6+37	RT.	7+44	RT.	112.8	113	2
6+49	LT.	8+31	LT.	178.9	179	2
			TOTALS:		292	4

SNOWPLOW MARKER TABLE

ITEM NO.	DESCRIPTION	PAY UNIT
646.22	DELINEATOR, SNOWPLOWING MARKER, SUPPLEMENTARY SNOWPLOWING MARKER PANELS	EA
646.32	STEEL POST, 2.0 LB/FT	EA

STATION	SIDE	SPACING	COLOR	646.22	646.32
T 4+54.8	LT.	-	GREEN	1	1
T 4+94.0	RT.	-	GREEN	2	1
T 6+41.5	RT.	-	WHITE	2	1
T 6+42.2	LT.	-	WHITE	2	1
T 7+76.5	RT.	-	GREEN	1	1
T 8+29.4	LT.	-	GREEN	2	1
T 8+33.1	RT.	-	GREEN	2	1
T 9+07.8	RT.	-	GREEN	1	1
			TOTALS:	13	8

PAVEMENT KEY TABLE

ITEM NO.	DESCRIPTION	PAY UNIT
207.24	GEOTEXTILE STABILIZATION	SY
490.30	MISCELLANEOUS COLD MILLING OF BITUMINOUS	SY
627.50140008	CUTTING PAVEMENT	LF

STATION - STATION	207.24	490.30	627.50140008
4+72 TO 5+00		57.9	
5+00			20.9
5+00 TO 5+20	51.1		
9+55 TO 9+75	51.6		
9+75			20.6
9+75 TO 10+02		55.8	
TOTALS:	102.7	113.7	41.5

DRIVEWAY CULVERT TABLE

ITEM NO.	DESCRIPTION	PAY UNIT
603.171116	GALVANIZED STEEL END SECTIONS-PIPE (2-2/3" X 1/2" CORRUGATIONS) 15 INCH	EA
603.9812	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 12 INCH	LF

STATION AND OFFSET	603.171116	603.9812	DESCRIPTION
4+35.47 18.61' RT.	1	40	INSTALL GALVANIZED STEEL END SECTION INLET WITH 40' OF 12" SICPP (INV. 1263.66)
4+74.90 25.89' RT.	1		INSTALL GALVANIZED STEEL END SECTION OUTLET (INV. 1258.97)
7+89.69 33.59' RT.	1	38.6	INSTALL GALVANIZED STEEL END SECTION OUTLET (INV. 1249.86)
8+26.82 27.69' RT.	1		INSTALL GALVANIZED STEEL END SECTION INLET WITH 38.6' OF 12" SICPP (INV. 1250.39)
TOTALS:	4.0	78.6	

DRAINAGE STRUCTURE TABLE NOTES:

1. STATION AND OFFSETS FOR SICPP SECTIONS ARE TO THE INVERT OF THE PIPE.

STORM SEWER TABLE

ITEM NO.	DESCRIPTION	PAY UNIT
203.07	SELECT GRANULAR FILL	CUBIC YARD
206.0201	TRENCH AND CULVERT EXCAVATION	CUBIC YARD
552.17	SHIELDS AND SHORING	SQUARE FOOT
603.6101	REINFORCE CONCRETE PIPE CLASS IV, 12" DIAMETER	LINEAR FOOT
603.7301	REINFORCED CONCRETE PIPE END SECTIONS 12" DIAMETER	EACH
604.4048	ROUND PRECAST CONCRETE MANHOLE TYPE 48	LINEAR FOOT

LOCATION				INVERT ELEV.	PLAN LENGTH	203.07	206.0201	552.17	603.61	603.7301	604.4048
FROM		TO									
STA.	SIDE	STA.	SIDE								
T 8+20.04	33.92' LT.	T 8+24.36	29.64' LT.	1261.63	-	-	-	-	-	1	-
T 8+24.36	29.64' LT.	T 8+59.11	3.39' RT.	1260.96	47.9	14.2	26.6	479	47.9	-	-
T 8+60.32	4.54' RT.	-	-	1251.05	-	11.1	14.7	216.5	-	-	4.3
T 8+61.99	4.58' RT.	T 9+66.69	19.72' RT.	1251.05	105.8	31.3	58.8	1058	105.8	-	-
T 9+66.69	19.72' RT.	T 9+72.74	19.15' RT.	1248.68	-	-	-	-	-	1	-
					TOTALS:	56.6	100.1	1753.5	153.7	2	4.3

UTILITY MARKER TABLE

STATION	SIDE	TYPE	COUNT
T 4+88.36	37.75' RT.	WATERMAIN	1
T 5+63.52	23.67' RT.	SANITARY	1
T 6+43.18	65.30' RT.	SANITARY	1
T 6+53.26	67.15' RT.	SANITARY	1
T 7+11.23	83.04' RT.	SANITARY	1
T 7+18.83	88.17' RT.	SANITARY	1
T 7+87.49	40.18' RT.	SANITARY	1
T 8+16.43	34.49' LT.	WATERMAIN	1
T 8+78.41	37.13' RT.	WATERMAIN	1
		TOTALS:	9

WATERMAIN AND SANITARY SEWER MARKERS TO BE PAID FOR UNDER WATERMAIN AND SANITARY SERWER SYSTEM ITEMS, RESPECTIVELY.

DRIVEWAY LOCATIONS

ITEM NO.	DESCRIPTION	PAY UNIT
608.020102	HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS, BICYCLE PATHS, AND VEGETATION CONTROL STRIPS	TON
623.12	CRUSHED STONE (IN-PLACE MEASURE)	CY

STATION	SIDE	COMM./RES.	EXIST. SURFACE	WIDTH	LENGTH	ANGLE	LAYOUT TYPE	608.020102	623.12
4+55	RT.	COMMERCIAL	GRAVEL	12.0	16.6	90.0	TAPER	5.4	2.3
8+16.77	RT.	COMMERCIAL	GRAVEL	10.0	36.0	90.0	TAPER	3.6	9.2
8+86.7	LT.	COMMERCIAL	GRAVEL	12.5	31.1	26.9	TAPER	5.4	3.8
							TOTALS:	14.4	15.3

CHECK DAM TABLE

ITEM NO.	DESCRIPTION	PAY UNIT
209.110102	CHECK DAM (DITCH BOTTOM WIDTH > 3'-6'), STONE - TEMPORARY	EA

STATION	OFFEST	209.110102
5+33	31.9' RT.	1
5+84	32.0' RT.	1
5+98	32.0' RT.	1
6+11	34.2' RT.	1
6+23	41.6' RT.	1
6+34	50.8' RT.	1
6+46	56.4' RT.	1
6+59	59.8' RT.	1
7+09	69.5' RT.	1
5+80	28.94' LT.	1
5+90	34.5' LT.	1
5+99	38.0' LT.	1
6+07	44.8' LT.	1
6+11	53.3' LT.	1
7+95	56.1' LT.	1
8+03	49.4' LT.	1
8+11	42.5' LT.	1
8+16	38.2' LT.	1
	TOTAL:	18

SILT FENCE TABLE

ITEM NO.	DESCRIPTION	PAY UNIT
209.13	SILT FENCE - TEMPORARY	LF

STATION - STATION	SIDE	209.13
4+75 - 6+63	RT.	204
8+26 - 9+67	RT.	150
4+83 - 5+76	LT.	113
7+79 - 8+02	LT.	18
8+26 - 8+92	LT.	82
9+09 - 9+92	LT.	87
	TOTAL:	654

ROLLED EROSION CONTROL MATERIAL TABLE

ITEM NO.	DESCRIPTION	PAY UNIT
209.190301	ROLLED EROSION CONTROL PRODUCT, CLASS II TYPE C, INTERMEDIATE	SY

STATION - STATION	SIDE	209.190301
5+09 - 7+93	RT.	674
5+79 - 8+96	LT.	1572
	TOTAL:	2246

AFFIX SEAL: SEAN W. MILLER
ON: 8/20/2019

ALTERED BY:
ON:

STATE OF NEW YORK · SEAN W. MILLER · LICENSED PROFESSIONAL ENGINEER · 085445

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION
COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33

BRIDGES 3322810

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

MISCELLANEOUS TABLES

DRAWING NO. MST-1
SHEET NO. 12

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

PROJECT MANAGER T. BUTLER
CHECK T. BUTLER / S. MILLER
DRAFTING D. CLARK
CHECK K. ALBERTS / S. MILLER
DESIGN D. CLARK
JOB MANAGER S. MILLER/J. HOFMANN
DESIGN SUPERVISOR J. HOFMANN

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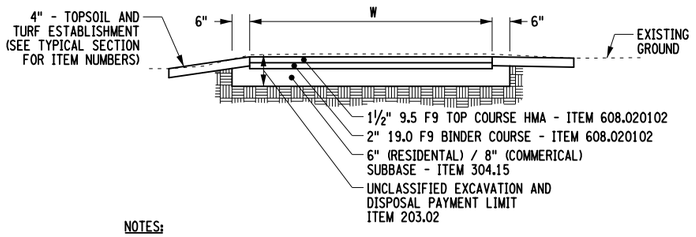
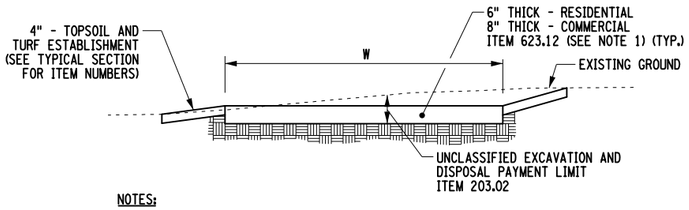


NOTES:

1. FOR DRIVEWAY DETAILS AND LAYOUT, REFER TO THE DRIVEWAY ENTRANCE DETAILS AND DRIVEWAY ENTRANCE LAYOUT SHEETS IN THE LATEST VERSION OF THE NYSDOT STANDARD SHEETS (US CUSTOMARY UNITS).

ASPHALT DRIVEWAY

N.T.S.

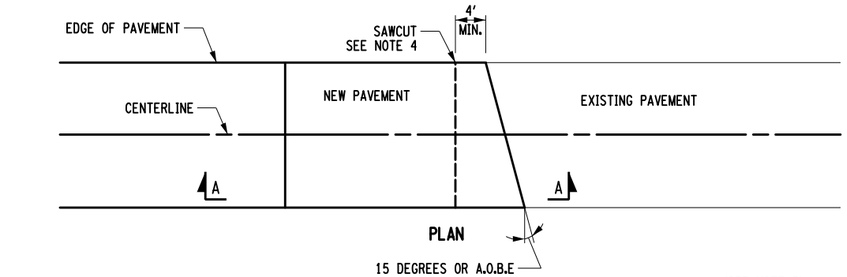


NOTES:

1. DRIVEWAY STONE SHALL CONSIST OF 50/50 BLEND OF TYPE 1A AND TYPE 1B CRUSHED GRAVEL TO BE PAID FOR UNDER ITEM 623.12 - CRUSHED STONE (IN-PLACE MEASURE).
2. FOR DRIVEWAY DETAILS AND LAYOUT, REFER TO THE DRIVEWAY ENTRANCE DETAILS AND DRIVEWAY ENTRANCE LAYOUT SHEETS IN THE LATEST VERSION OF THE NYSDOT STANDARD SHEETS (US CUSTOMARY UNITS).

GRAVEL DRIVEWAY

N.T.S.



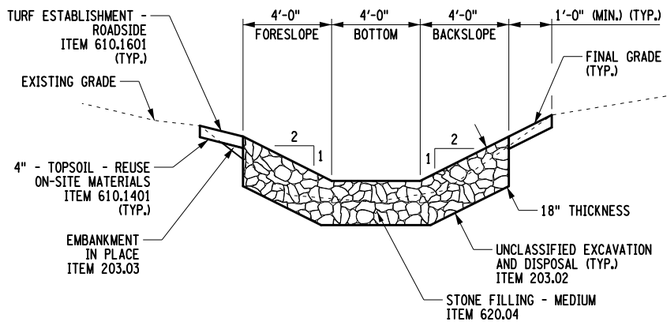
SECTION A-A

NOTES:

1. ASPHALT PAVEMENT JOINT ADHESIVE SHALL BE PLACED ON ALL TOP COURSE PAVEMENT JOINTS OR A.O.B.E..
2. KEYS ARE TO BE CONSTRUCTED SAME DAY AS NEW ASPHALT TOP IS PLACED AND ARE NOT TO BE LEFT OPEN OVERNIGHT.
3. TACK COAT SHALL BE APPLIED TO ALL PAVEMENT SURFACES.
4. SAWCUTS SHALL BE MADE SO THAT SURFACE RUNOFF IS DIRECTED TO THE EDGE OF PAVEMENT.
5. SAME THICKNESS AS TOP COURSE.

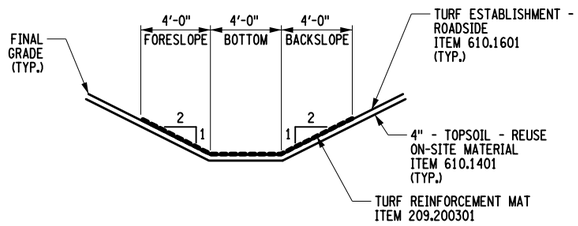
PAVEMENT KEY DETAIL

N.T.S.



STONE LINED SWALE DETAIL

N.T.S.



GRASS LINED SWALE DETAIL

N.T.S.

AFFIX SEAL: SEAN W. MILLER ON: 8/20/2019	ALTERED BY: ON:

STATE OF NEW YORK ★ SEAN W. MILLER ★ LICENSED PROFESSIONAL ENGINEER 085445 EXCELSIOR

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION

COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33

BRIDGES 3322810

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

MISCELLANEOUS DETAILS

DRAWING NO. MSD-1
SHEET NO. 13

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

PROJECT MANAGER T. BUTLER
CHECK T. BUTLER
S. MILLER /
DRAFTING D. CLARK
CHECK K. ALBERTS
S. MILLER/
DESIGN D. CLARK
JOB MANAGER S. MILLER/J. HOFMANN
DESIGN SUPERVISOR J. HOFMANN
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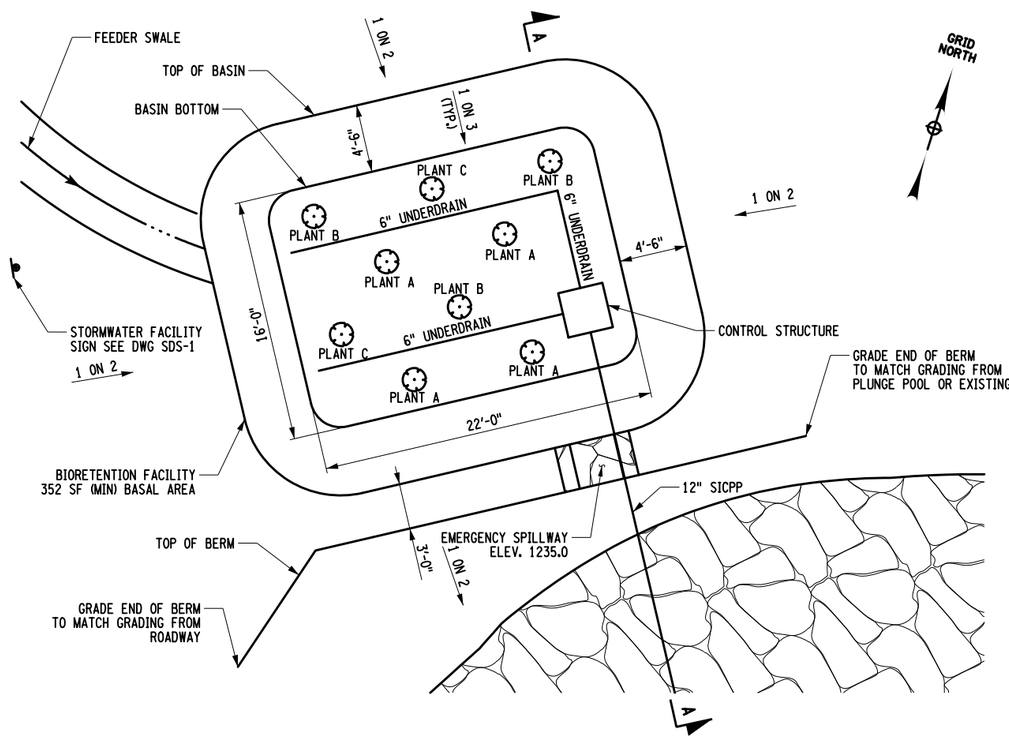
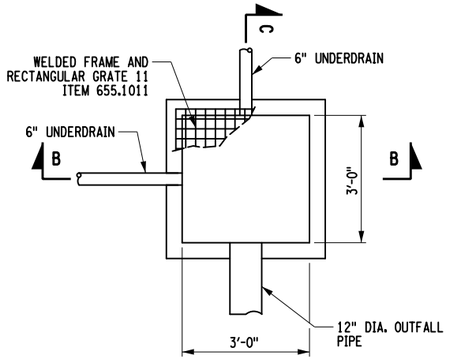


PLAN



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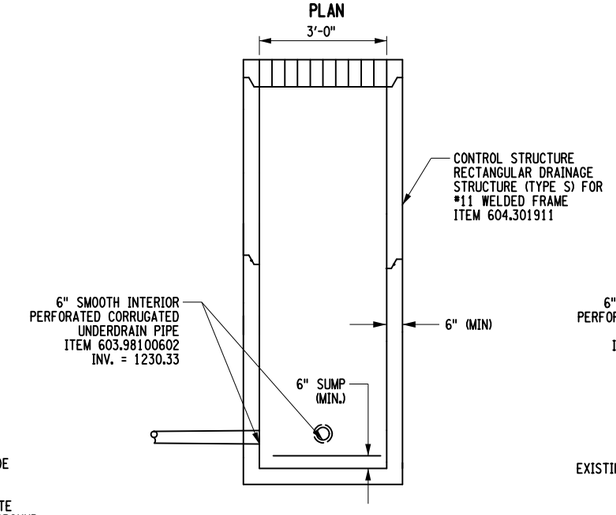
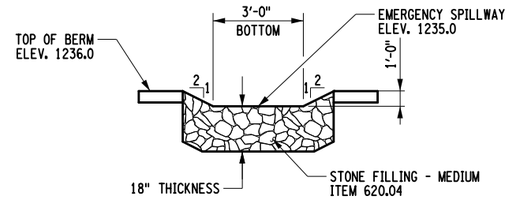
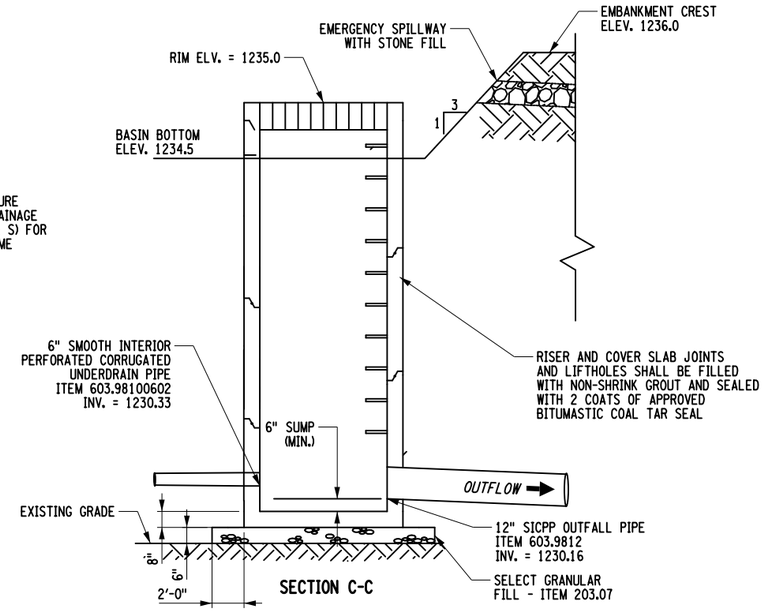


SECTION B-B



EMERGENCY SPILLWAY DETAIL

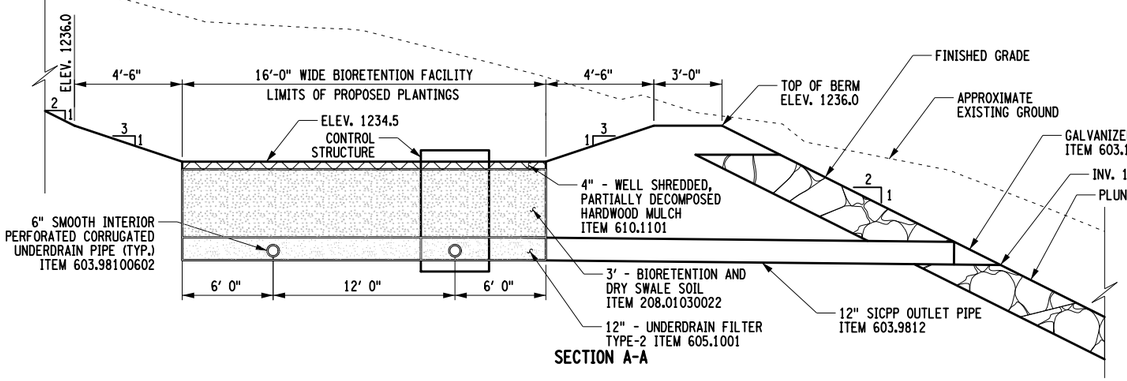
N.T.S.



SECTION C-C

CONTROL STRUCTURE DETAIL

N.T.S.



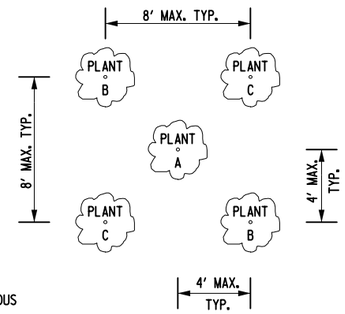
SECTION A-A

PLANTING TABLE			
PLANT ID	TYPE	NUMBER (EA)	PLANTING SIZE
PLANT A	CEPHALANTHUS OCCIDENTALIS- BUTTONBUSH	4	18-24" HT B&B
PLANT B	COMUS AMOMUM - SILKY DOGWOOD	3	30-36" HT B&B
PLANT C	LINDERA BENZOIN - SPICEBUSH	2	18-24" HT B&B

NOTES:

1. REPEAT PATTERN OF PLANTINGS TO COVER ENTIRE BIORETENTION BED.
2. PLANTINGS TO BE PAID FOR UNDER ITEM 611.0411 - PLANTING - DECIDUOUS SHRUBS - AS SPECIFIED.

BIORETENTION PLANTINGS DETAIL



TYPICAL SHRUB SPACING (TO COVER ENTIRE FACILITY)

AFFIX SEAL: SEAN W. MILLER
ON: 8/20/2019

ALTERED BY:
ON:

STATE OF NEW YORK · SEAN W. MILLER · LICENSED PROFESSIONAL ENGINEER · 085445

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION

COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33

BRIDGES 3322810

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

MISCELLANEOUS DETAILS
NORTH BIORETENTION FACILITY

DRAWING NO. MSD-2
SHEET NO. 14

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

CATTARAUGUS COUNTY DEPARTMENT OF PUBLIC WORKS

Stantec

DESIGN SUPERVISOR J. HOFMANN
JOB MANAGER S. MILLER/J. HOFMANN
DESIGN D. CLARK
CHECK K. ALBERTS
DRAFTING D. CLARK
CHECK T. BUTLER
PROJECT MANAGER T. BUTLER
S. MILLER /

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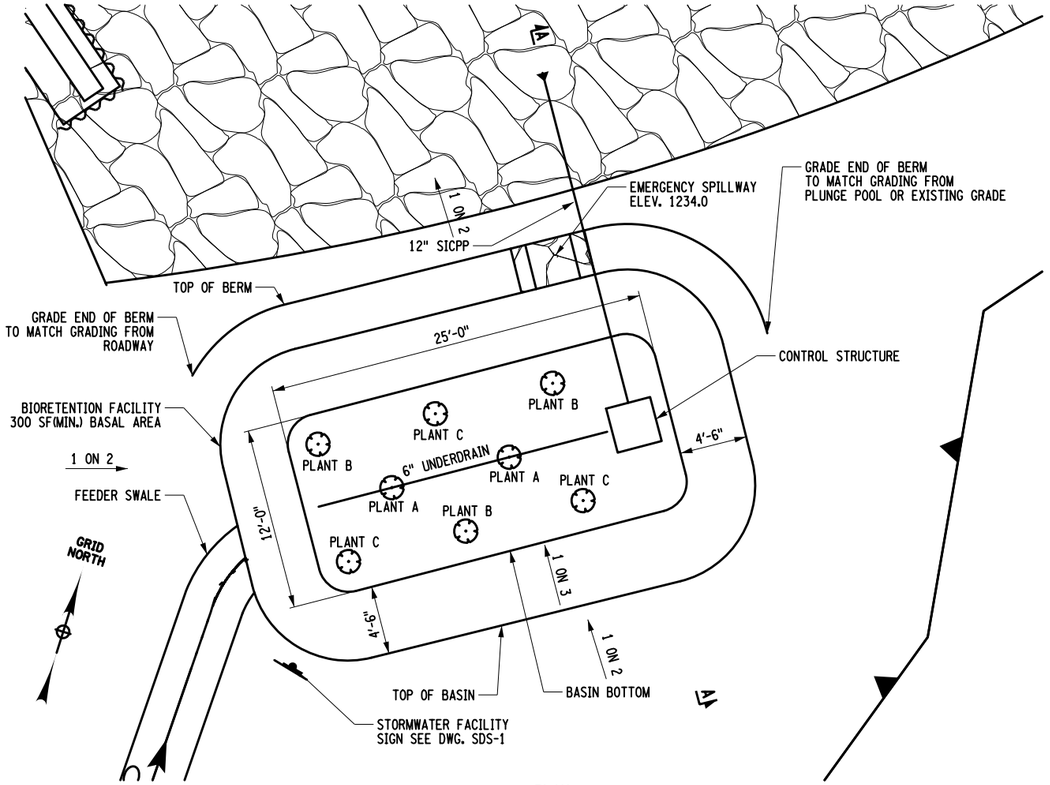

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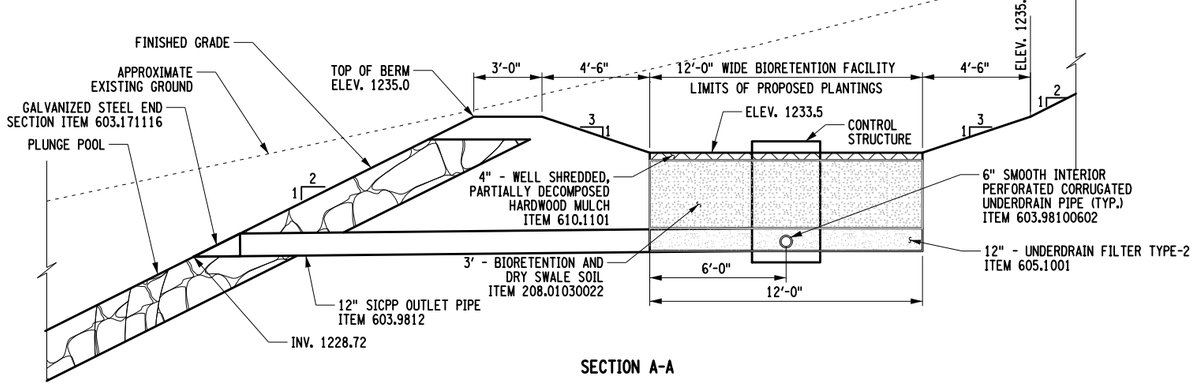
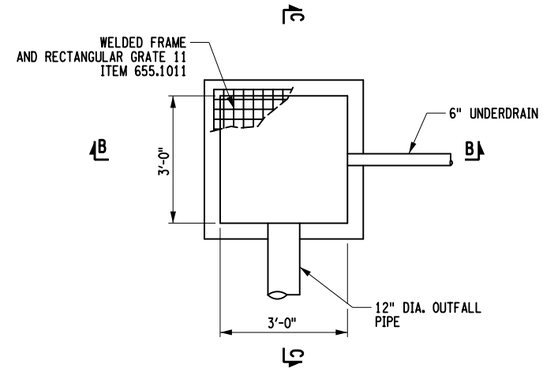
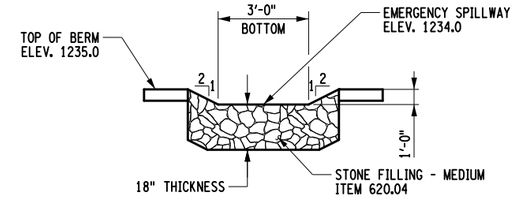


SECTION A-A

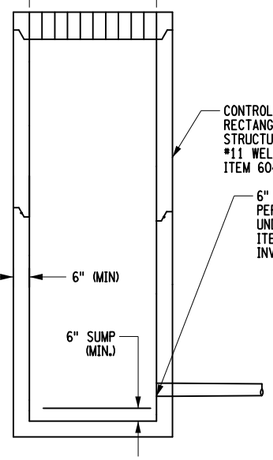




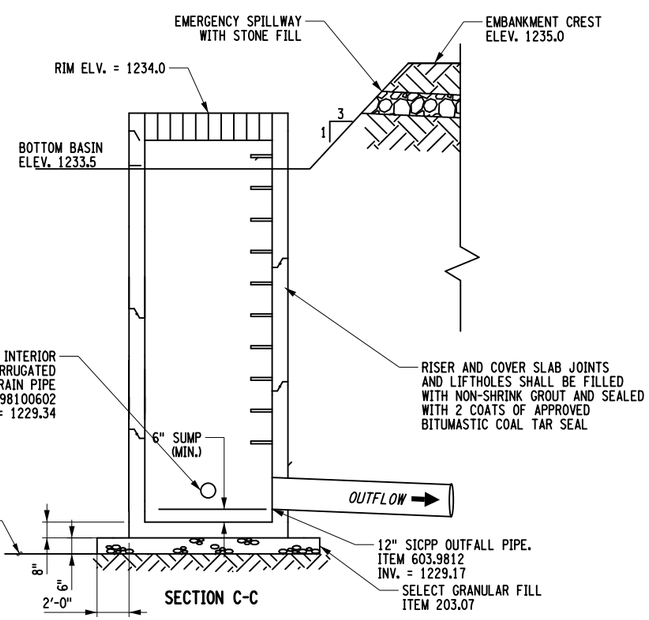
EMERGENCY SPILLWAY DETAIL

N.T.S.

PLAN



SECTION B-B



SECTION C-C

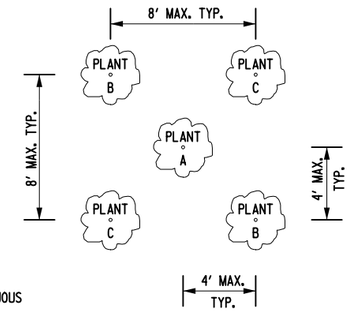
CONTROL STRUCTURE DETAIL

N.T.S.

PLANTING TABLE			
PLANT ID	TYPE	NUMBER (EA)	PLANTING SIZE
PLANT A	CEPHALANTHUS OCCIDENTALIS- BUTTONBUSH	2	18-24" HT B&B
PLANT B	COMUS AMOMUM - SILKY DOGWOOD	3	30-36" HT B&B
PLANT C	LINDERA BENZOIN - SPICEBUSH	3	18-24" HT B&B

NOTES:

1. REPEAT PATTERN OF PLANTINGS TO COVER ENTIRE BIORETENTION BED.
2. PLANTINGS TO BE PAID FOR UNDER ITEM 611.0411 - PLANTING - DECIDUOUS SHRUBS - AS SPECIFIED.



TYPICAL SHRUB SPACING
(TO COVER ENTIRE FACILITY)

BIORETENTION PLANTINGS DETAIL

AFFIX SEAL: SEAN W. MILLER
ON: 8/20/2019

ALTERED BY:
ON:

STATE OF NEW YORK
SEAN W. MILLER
LICENSED PROFESSIONAL ENGINEER
085445

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION
COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33

BRIDGES 3322810

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

MISCELLANEOUS DETAILS
SOUTH BIORETENTION FACILITY

DRAWING NO. MSD-3
SHEET NO. 15

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

PROJECT MANAGER T. BUTLER
S. MILLER / CHECK T. BUTLER
DRAFTING D. CLARK
S. MILLER/ CHECK K. ALBERTS
JOB MANAGER S. MILLER/J. HOFMANN
DESIGN D. CLARK
DESIGN SUPERVISOR J. HOFMANN
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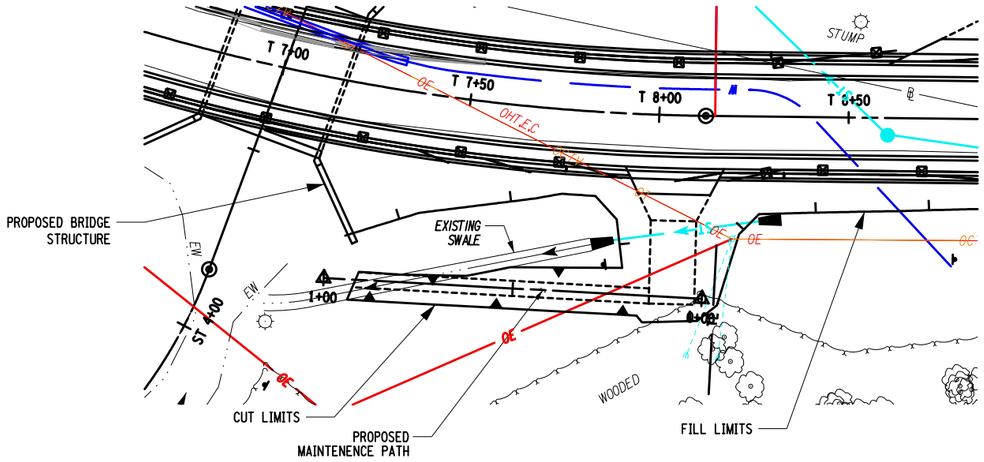

MAINTENANCE PATH PLAN
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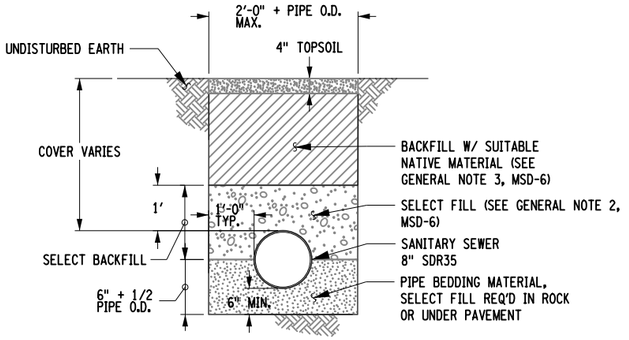

TYPICAL 8" PVC SANITARY SEWER
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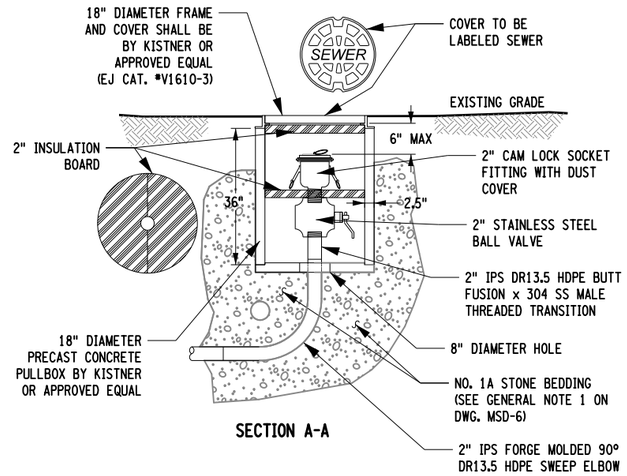
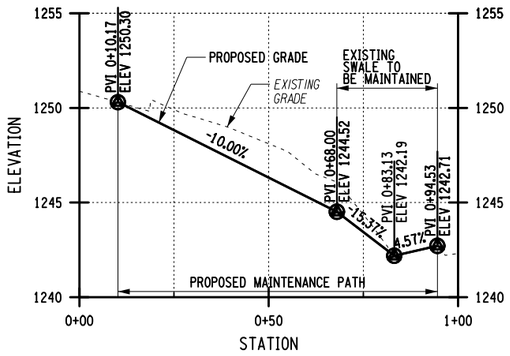


SECTION A-A



MAINTENANCE PATH PROFILE
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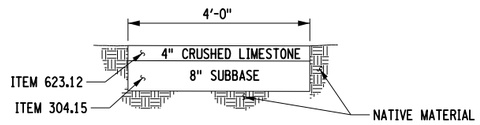

MAINTENANCE PATH TYPICAL SECTION
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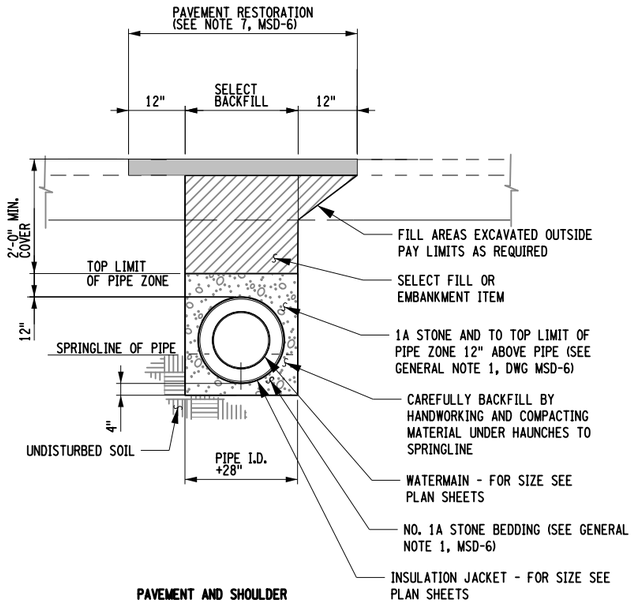
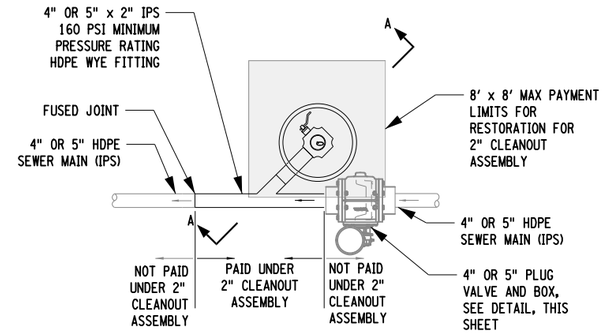


PAVEMENT AND SHOULDER

TYPICAL TRENCH - WATER (D.I.P. WITH INSULATED HDPE JACKET WATERMAIN)
N.T.S.



PLAN

2" CLEANOUT ASSEMBLY DETAIL

NOTES:

1. EACH SEWER MAIN CLEANOUT ASSEMBLY SHALL HAVE MECHANICALLY RESTRAINED JOINTS OR THRUST BLOCKING AS REQUIRED.
2. WHEN SELECT BACKFILL MATERIAL IS REQUIRED, THE PAYMENT LIMIT SHALL EXTEND TO 12" FROM THE OUTSIDE FACE OF THE CLEANOUT PULL BOX ALL THE WAY AROUND THE CLEANOUT PULL BOX.
3. FOR DEAD END CLEANOUTS, CONTRACTOR SHALL FUSE 90° DR 13.5 HDPE SWEEP ELBOW DIRECTLY TO THE END OF THE MAINLINE PIPE. NO HDPE WYE FITTING SHALL BE USED ON DEAD END CLEANOUTS UNLESS DIRECTED BY THE ENGINEER.

AFFIX SEAL: SEAN W. MILLER
ON: 8/20/2019

ALTERED BY:
ON:

STATE OF NEW YORK
SEAN W. MILLER
LICENSED PROFESSIONAL ENGINEER
085445

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION

COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33

BRIDGES 3322810

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

MISCELLANEOUS DETAILS
STORM AND SANITARY SEWER DETAILS

DRAWING NO. MSD-4
SHEET NO. 16

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

DESIGN SUPERVISOR J. HOFMANN
JOB MANAGER S. MILLER/J. HOFMANN
DRAFTING D. CLARK
CHECK T. BUTLER
PROJECT MANAGER T. BUTLER
DESIGN D. CLARK
CHECK K. ALBERTS
S. MILLER/
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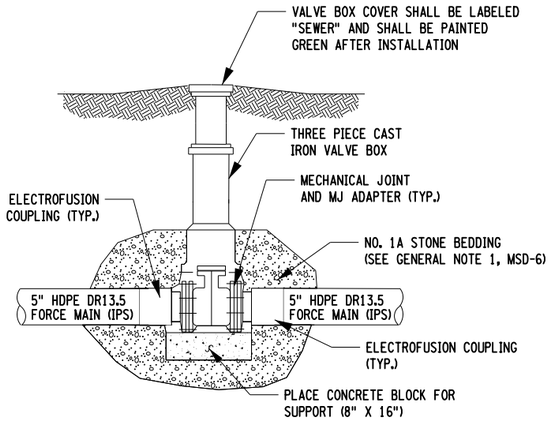
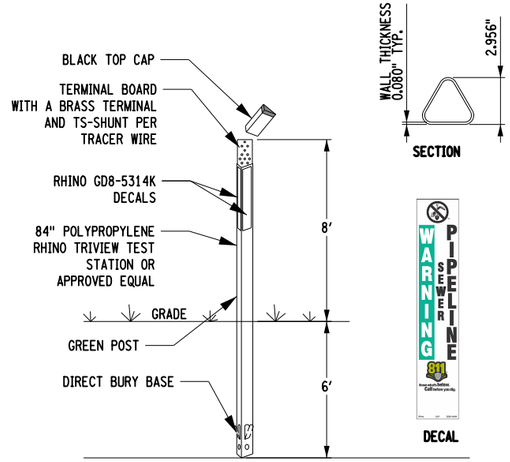
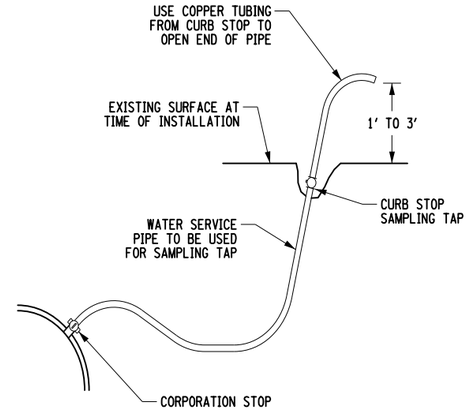


TYPICAL PLUG VALVE CONNECTION
(HDPE / PE SEWER MAIN)
N.T.S.



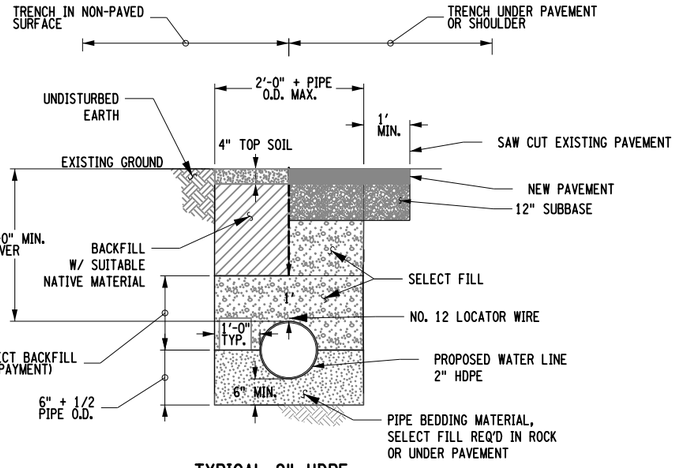
SEWER LINE MARKER
N.T.S.



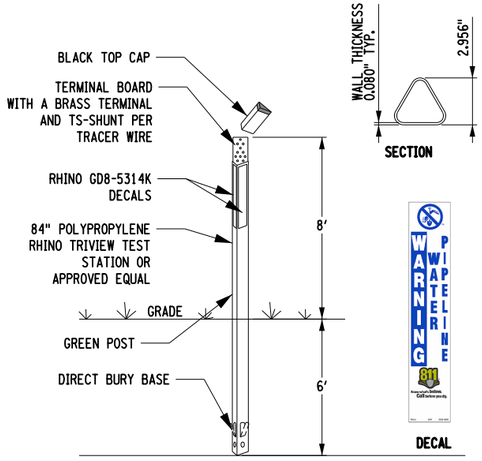
NOTES:

1. LOCATION OF SAMPLING TAPS ARE SUBJECT TO PRIOR APPROVAL BY VILLAGE AND CATTARAUGUS COUNTY DEPARTMENT OF PUBLIC HEALTH.
2. IF SAMPLING TAP IS LOCATED IN PAVED AREA, SAMPLING TAP IS TO BE KEPT BELOW GROUND EXCEPT WHEN IN USE.
3. IF APPROVED BY VILLAGE, SAMPLING TAP MAY BE LOCATED AT SAME LOCATION AS NEW WATER SERVICE.
4. IF SAMPLING TAP IS NOT TO BE USED AS NEW WATER SERVICE, UPON NOTIFICATION OF ACCEPTABLE SAMPLE RESULTS, CORPORATION STOP IS TO BE REMOVED AND REPLACED WITH A BRASS PLUG OR CORPORATION STOP IS TO BE CLOSED, WATER SERVICE PIPE DISCONNECTED FROM CORPORATION AND BRASS CAP INSTALLED ON OUTLET OF CORPORATION STOP.
5. MAXIMUM DISTANCE BETWEEN SAMPLING TAPS ON NEW WATER MAIN INSTALLATION IS 1,000 FEET.

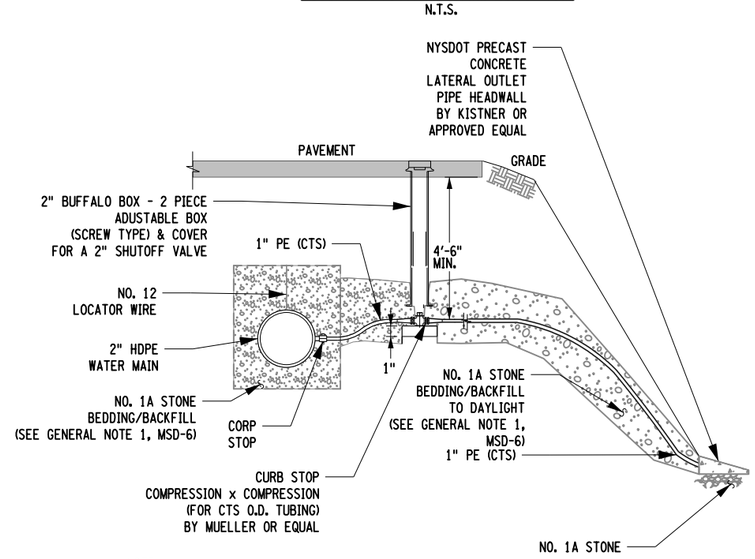
DISINFECTION & SAMPLING TAP
N.T.S.



TYPICAL 2" HDPE WATER MAIN INSTALLATION
N.T.S.



WATER LINE MARKER
N.T.S.



NOTE :
CONTRACTOR SHALL LAY PIPE SO THAT IT WILL DRAIN FROM CURB STOP

1" BLOW OFF
N.T.S.

AFFIX SEAL: SEAN W. MILLER
ON: 8/20/2019

ALTERED BY:
ON:

STATE OF NEW YORK · SEAN W. MILLER · LICENSED PROFESSIONAL ENGINEER · 085445

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION
COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33

BRIDGES 3322810

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

MISCELLANEOUS DETAILS
STORM SEWER, SANITARY SEWER, AND WATER SERVICE DETAILS

DRAWING NO. MSD-5
SHEET NO. 17

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

PROJECT MANAGER T. BUTLER
S. MILLER / CHECK T. BUTLER
DRAFTING D. CLARK
JOB MANAGER S. MILLER/J. HOFMANN
DESIGN SUPERVISOR J. HOFMANN
DESIGN D. CLARK
S. MILLER/ CHECK K. ALBERTS
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GENERAL NOTES

1. PIPE BEDDING MATERIAL

NO. 1 CRUSHED STONE, OR CRUSHED GRAVEL, CONFORMING WITH NYSDOT STANDARD SPECIFICATION 605-2.02 AND 703-02. THE BEDDING MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN 1 INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS AS SHOWN IN THE FOLLOWING TABLE. THE BEDDING SHALL BE COMPACTED IN 6 INCH LIFTS WITH EQUIPMENT ACCEPTABLE TO THE ENGINEER.

SIEVE SIZE	PERCENT PASSING BY WEIGHT
1 INCH	100
1/2 INCH	90-100
1/4 INCH	15
NO. 200	0-1.0

NO. 1A CRUSHED STONE, OR CRUSHED GRAVEL, CONFORMING WITH NYSDOT STANDARD SPECIFICATION 605-2.02 AND 703-02. THE BEDDING MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN 1/2 INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS AS SHOWN IN THE FOLLOWING TABLE. THE BEDDING SHALL BE COMPACTED IN 6 INCH LIFTS WITH EQUIPMENT ACCEPTABLE TO THE ENGINEER.

SIEVE SIZE	PERCENT PASSING BY WEIGHT
1/2 INCH	100
1/4 INCH	90-100
1/8 INCH	15
NO. 200	0-1.0

2. SELECT MATERIAL BACKFILL

SELECT BACKFILL MATERIAL SHALL BE CRUSHED STONE, CRUSHED GRAVEL, OR SCREENED GRAVEL CONFORMING WITH THE NYSDOT STANDARD SPECIFICATION 304-2.02, TYPE 4 AND MEETING THE GRADATION REQUIREMENTS IN THE FOLLOWING TABLE. BACKFILL MATERIAL SHALL BE COMPACTED IN 6 INCH LIFTS TO 95% PROCTOR DENSITY. NO SLAG SHALL BE ALLOWED.

SIEVE SIZE	PERCENT PASSING BY WEIGHT
2 INCH	100
1/4 INCH	30-65
NO. 40	5-40
NO. 200	0-10

3. EXCAVATED MATERIAL BACKFILL (PRIMARY ZONE)

IF THE NATIVE EXCAVATED MATERIAL IS DEEMED TO BE SUITABLE, PLACE AND COMPACT BY APPROVED MECHANICAL MEANS IN 6" LIFTS TO ACHIEVE 85% PROCTOR DENSITY. REMOVE ANY DEBRIS, FROZEN MATERIAL, LARGE CLODS OR STONES GREATER THAN 2" IN DIAMETER, AND ORGANIC MATTER WITHIN 6 INCHES OF THE

EXCAVATED BACKFILL MATERIAL (SECONDARY ZONE)

IF THE NATIVE EXCAVATED MATERIAL IS DEEMED TO BE SUITABLE, PLACE AND COMPACT BY APPROVED MECHANICAL MEANS IN 8"-12" LIFTS TO ACHIEVE 85% PROCTOR DENSITY. REMOVE ANY DEBRIS, FROZEN MATERIAL, LARGE CLODS OR STONES, AND ORGANIC MATTER WITHIN 2 FEET OF THE TOP OF PIPE. TOP OF PIPE.

4. STONE FILL

NYSDOT LIGHT, MEDIUM OR HEAVY STONE FILL (NYSDOT ITEM NO. 620.03, 620.04, OR 620.05) CONFORMING TO NYSDOT SECTION 620-2.02 WITH GEOTEXTILE FABRIC.

5. SAW CUTS

SAW CUTS BY THE CONTRACTOR SHALL BE MADE WITH A SAW, PNEUMATIC SPADE OR OTHER MEANS APPROVED BY THE ENGINEER, PRIOR TO EXCAVATION. THE USE OF A "PIZZA CUTTER" OR SIMILAR DEVICE WILL BE PROHIBITED.

6. ADDITIONAL SAW CUTS

THE CONTRACTOR WILL BE RESPONSIBLE TO SAW CUT AN ADDITIONAL 12" ON EACH SIDE OF THE DISTURBED TRENCH AREA, BEYOND THE ORIGINAL SAW CUT, SO AS TO PROVIDE A UNIFORM STRAIGHT EDGE, IF THE ORIGINAL EDGE HAS BEEN DAMAGED OR BROKEN OFF. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR THIS WORK WHEN REQUIRED.

GENERAL NOTES (CONT.)

7. FINAL RESTORATION

THE CONTRACTOR SHALL REFER TO THE FOLLOWING TABLE AND TO THE APPLICABLE TECHNICAL SPECIFICATION SECTIONS FOR FINAL RESTORATION OF ALL TYPES.

TYPE OF RESTORATION	NOTES
LAWN RESTORATION	4" OF TOPSOIL, 150 LBS PER ACRE
FIELD RESTORATION	2" OF TOPSOIL, 70 LBS PER ACRE
CONCRETE SIDEWALK RESTORATION	SEE CONCRETE SIDEWALK DETAIL
CONCRETE RESTORATION (DRIVEWAY)	SEE TYPICAL SECTIONS
ASPHALT RESTORATION (DRIVEWAY AND PAVEMENT)	SEE TYPICAL SECTIONS
SHOULDER RESTORATION	SEE TYPICAL SECTIONS

WATER MAIN PRESSURE TEST

THE CONTRACTOR SHALL CONDUCT A PRESSURE TEST OF THE WATER MAIN AFTER ALL APPURTENANCES INCLUDING SERVICE LINES, REQUIRED IN THE WORK FOR THE SECTION TO BE TESTED ARE INSTALLED. THE LENGTH OF SECTION TO BE TESTED SHALL BE APPROVED BY THE ENGINEER. THE MAXIMUM LENGTH TESTED SHALL BE 1,000 FEET, UNLESS THE MINIMUM VALVE LENGTH IS GREATER. THE PRESSURE TEST SHALL BE WITNESSED BY THE ENGINEER OR PROJECT REPRESENTATIVE.

THE PRESSURE TEST SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 4 OF ANSI/ AWWA C600. PRIOR TO THE TEST, THE CONTRACTOR SHALL SUBMIT THE PROPOSED TESTING METHODS AND EQUIPMENT, IN WRITING, FOR THE ENGINEER'S APPROVAL. THE PRESSURE GAUGE FIGURE INTERVALS SHALL BE A MAXIMUM OF 5 PSI INCREMENTS. THE MEASURING METER SHALL BE IN 0.10 GALLON INCREMENTS. TESTING EQUIPMENT SHALL BE APPROVED BY AND CALIBRATED TO THE SATISFACTION OF THE ENGINEER.

THE SECTION OF PIPE TO BE TESTED SHALL BE FILLED WITH WATER OF POTABLE QUALITY AND ALL AIR SHALL BE EXPELLED FROM THE PIPE. THE CONTRACTOR SHALL MAKE ALL TAPS, AS NECESSARY, FOR RELEASING ALL OF THE AIR AND FOR ALL TEST PURPOSES AS MAY BE REQUIRED. TAPS MAY BE INSTALLED DURING THE LAYING OF THE WATER MAIN.

FOR THE PRESSURE TEST, THE CONTRACTOR SHALL RAISE THE WATER PRESSURE (BASED ON THE ELEVATION AT THE LOWEST POINT IN THE SECTION UNDER TEST AND CORRECTED TO THE GAUGE LOCATION) TO A MINIMUM PRESSURE OF 150 POUNDS PER SQUARE INCH GAUGE FOR DOMESTIC WATER MAINS OR 1.5 TIMES THE MAXIMUM WORKING PRESSURE, WHICHEVER IS GREATER.

THE REQUIRED PRESSURE SHALL BE MAINTAINED FOR AN UNINTERRUPTED PERIOD OF TWO HOURS. UNLESS OTHERWISE NOTED. THE VOLUME OF WATER REQUIRED TO MAINTAIN THE SPECIFIED PRESSURE AS MEASURED BY THE ENGINEER SHALL NOT EXCEED THE LIMITS DETERMINED BY THE FOLLOWING FORMULA AS DEFINED IN SECTION 4 OF ANSI I AWWS C600:

$$L = \frac{SD\sqrt{P}}{148{,}000}$$

IN WHICH L IS THE ALLOWABLE LEAKAGE IN GALLONS PER HOUR; S IS THE LENGTH OF WATER LINE TESTED; D IS THE NOMINAL DIAMETER OF THE PIPE, IN INCHES; AND P IS THE AVERAGE TEST PRESSURE DURING THE LEAKAGE TEST IN POUNDS PER SQUARE INCH GAUGE.

WATER MAIN FLUSHING

AFTER THE PRESSURE AND LEAKAGE TESTS ARE COMPLETE, THE WATER MAIN SHALL BE FLUSHED AS THOROUGHLY AS POSSIBLE WITH THE WATER PRESSURE AND OUTLETS AVAILABLE. UNLESS PROPER CARE IS TAKEN DURING THE LAYING OF THE WATER MAIN, FOREIGN MATERIAL, SUCH AS STONES, CONCRETE OR METAL MAY GAIN ENTRANCE TO THE MAIN. TO DISPOSE OF SUCH FOREIGN MATERIAL IN THE MAIN, IT SHALL BE THOROUGHLY FLUSHED. MINIMUM LINE VELOCITY SHALL BE 2.5 FT/SEC.

WATER MAIN CHLORINATION

AFTER A SECTION OF WATER MAIN HAS BEEN PRESSURE TESTED AND FOUND ACCEPTABLE, IT SHALL BE THOROUGHLY FLUSHED BY THE CONTRACTOR. MINIMUM FLUSHING VELOCITY SHALL BE 2.5 FEET PER SECOND.

FLOWS TO PRODUCE A MINIMUM VELOCITY OF 2.5 FEET PER SECOND:

PIPE SIZE (INCHES)	FLOW (GPM)	HYDRANT OPENINGS @ 40 PSI
4	100	ONE - 2½"
6	220	ONE - 2½"
8	390	ONE - 2½"
10	610	ONE - 2½"
12	880	ONE - 2½"
16	1,570	ONE - 2½"
18	1,980	TWO - 2½"
24	3,530	ONE - 4½"

UPON COMPLETION OF FLUSHING, THE CONTRACTOR SHALL DISINFECT THE MAIN, SERVICES, VALVES, AND HYDRANTS WITH CHLORINE SOLUTION IN ACCORDANCE WITH THE REQUIREMENTS OF AWWA C651 AND IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF HEALTH USING THE CONTINUOUS FEED METHOD. THE STRENGTH OF THIS SOLUTION SHALL BE SUCH THAT A RESIDUAL OF AT LEAST 25 MG/L OF CHLORINE SHALL BE RETAINED IN THE MAIN AFTER TWENTY-FOUR HOURS.

THE INTERIORS OF ALL APPURTENANCES AND SECTIONS OF WATER MAIN THAT CANNOT BE NORMALLY DISINFECTED SHALL BE SWABBED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER WITH A CONCENTRATED CHLORINE SOLUTION CONTAINING NOT LESS THAN 200 PPM OF FREE CHLORINE BEFORE INSTALLATION. THE CONTRACTOR SHALL DISINFECT ALL EXISTING WATER LINES, SERVICES AND APPURTENANCES WHICH WERE BROKEN, DAMAGED, CONTAMINATED OR SUSPECTED OF BEING CONTAMINATED AS A RESULT OF WORK DONE IN CONJUNCTION WITH THE PROJECT.

FOLLOWING DISINFECTION, ALL TREATED WATER SHALL BE THOROUGHLY FLUSHED FROM THE MAIN (MINIMUM FLUSHING VELOCITY 2.5 FEET PER SECOND) AND SAMPLES SHALL BE TAKEN BY THE COUNTY HEALTH DEPARTMENT. TWO CONSECUTIVE SETS OF ACCEPTABLE SAMPLES, TAKEN 24 HOURS APART, MUST BE COLLECTED FROM EACH SAMPLING POINT, AND A COMPLETED WORKS APPROVAL ISSUED BY THE CHAUTAUQUA COUNTY HEALTH DEPARTMENT BEFORE ANY NEW LINE SECTIONS CAN BE PLACED INTO SERVICE. THE WATER USED FOR DISINFECTION SHALL BE DISCHARGED TO THE VILLAGE'S SANITARY SEWER. NO CHLORINATED DISCHARGE SHALL BE RELEASED TO ANY SURFACE WATERS OF THE VILLAGE.

AFFIX SEAL: SEAN W. MILLER
ON: 8/20/2019

ALTERED BY:
ON:

STATE OF NEW YORK
SEAN W. MILLER
LICENSED PROFESSIONAL ENGINEER
085445

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION
COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33

BRIDGES 3322810

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

MISCELLANEOUS DETAILS
STORM SEWER, SANITARY SEWER, AND WATER SERVICE NOTES

DRAWING NO. MSD-6
SHEET NO. 18

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

DESIGN SUPERVISOR J. HOFMANN | JOB MANAGER S. MILLER/J. HOFMANN | DESIGN D. CLARK | CHECK S. MILLER/ K. ALBERTS | DRAFTING D. CLARK | CHECK S. MILLER/ T. BUTLER | PROJECT MANAGER T. BUTLER

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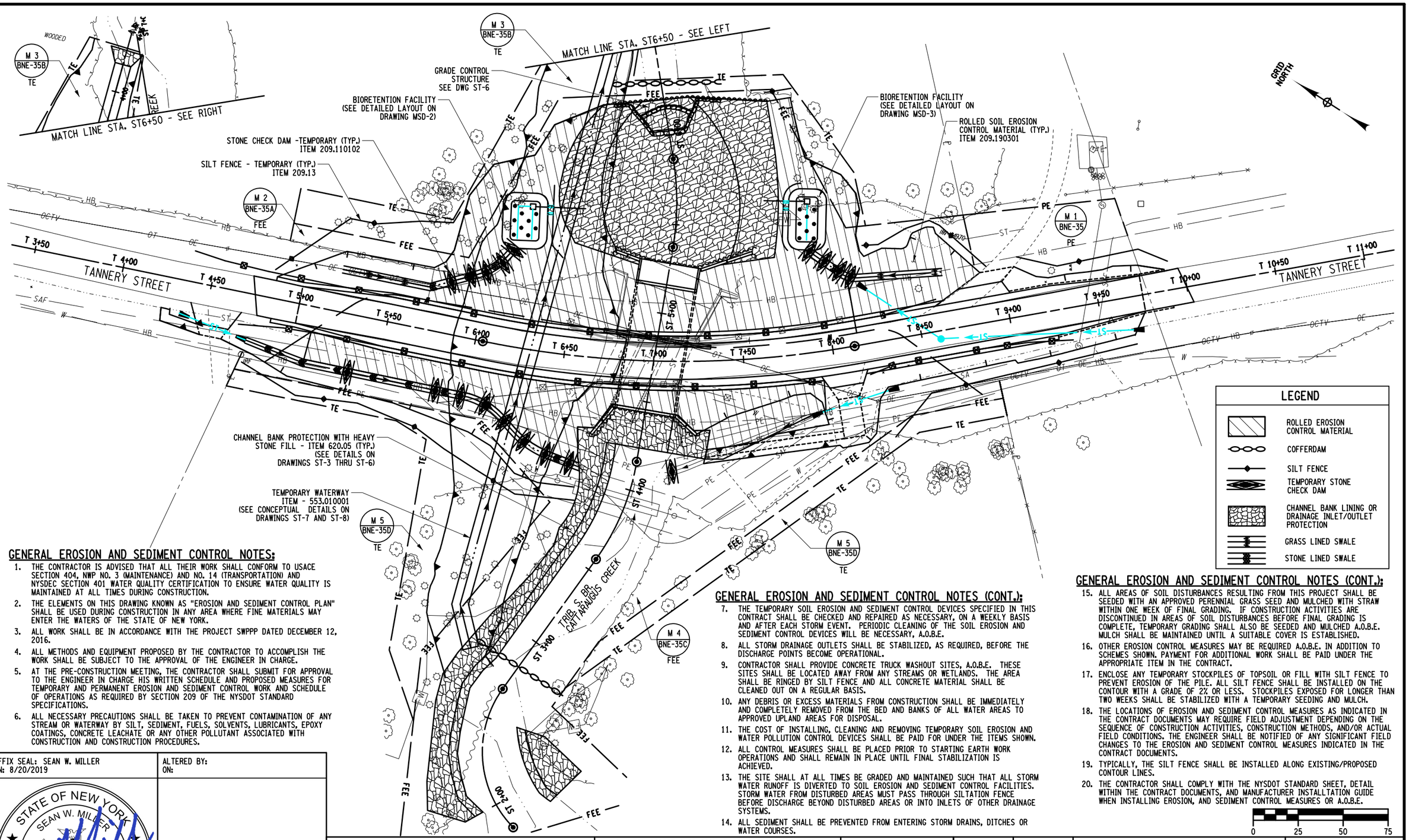


GENERAL EROSION AND SEDIMENT CONTROL NOTES:

1. THE CONTRACTOR IS ADVISED THAT ALL THEIR WORK SHALL CONFORM TO USACE SECTION 404, NWP NO. 3 (MAINTENANCE) AND NO. 14 (TRANSPORTATION) AND NYSDEC SECTION 401 WATER QUALITY CERTIFICATION TO ENSURE WATER QUALITY IS MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
2. THE ELEMENTS ON THIS DRAWING KNOWN AS "EROSION AND SEDIMENT CONTROL PLAN" SHALL BE USED DURING CONSTRUCTION IN ANY AREA WHERE FINE MATERIALS MAY ENTER THE WATERS OF THE STATE OF NEW YORK.
3. ALL WORK SHALL BE IN ACCORDANCE WITH THE PROJECT SWPPP DATED DECEMBER 12, 2016.
4. ALL METHODS AND EQUIPMENT PROPOSED BY THE CONTRACTOR TO ACCOMPLISH THE WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER IN CHARGE.
5. AT THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE ENGINEER IN CHARGE HIS WRITTEN SCHEDULE AND PROPOSED MEASURES FOR TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL WORK AND SCHEDULE OF OPERATIONS AS REQUIRED BY SECTION 209 OF THE NYSDOT STANDARD SPECIFICATIONS.
6. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PREVENT CONTAMINATION OF ANY STREAM OR WATERWAY BY SILT, SEDIMENT, FUELS, SOLVENTS, LUBRICANTS, EPOXY COATINGS, CONCRETE LEACHATE OR ANY OTHER POLLUTANT ASSOCIATED WITH CONSTRUCTION AND CONSTRUCTION PROCEDURES.

GENERAL EROSION AND SEDIMENT CONTROL NOTES (CONT.):

7. THE TEMPORARY SOIL EROSION AND SEDIMENT CONTROL DEVICES SPECIFIED IN THIS CONTRACT SHALL BE CHECKED AND REPAIRED AS NECESSARY, ON A WEEKLY BASIS AND AFTER EACH STORM EVENT. PERIODIC CLEANING OF THE SOIL EROSION AND SEDIMENT CONTROL DEVICES WILL BE NECESSARY, A.O.B.E.
8. ALL STORM DRAINAGE OUTLETS SHALL BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
9. CONTRACTOR SHALL PROVIDE CONCRETE TRUCK WASHOUT SITES, A.O.B.E. THESE SITES SHALL BE LOCATED AWAY FROM ANY STREAMS OR WETLANDS. THE AREA SHALL BE RINGED BY SILT FENCE AND ALL CONCRETE MATERIAL SHALL BE CLEANED OUT ON A REGULAR BASIS.
10. ANY DEBRIS OR EXCESS MATERIALS FROM CONSTRUCTION SHALL BE IMMEDIATELY AND COMPLETELY REMOVED FROM THE BED AND BANKS OF ALL WATER AREAS TO APPROVED UPLAND AREAS FOR DISPOSAL.
11. THE COST OF INSTALLING, CLEANING AND REMOVING TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES SHALL BE PAID FOR UNDER THE ITEMS SHOWN.
12. ALL CONTROL MEASURES SHALL BE PLACED PRIOR TO STARTING EARTH WORK OPERATIONS AND SHALL REMAIN IN PLACE UNTIL FINAL STABILIZATION IS ACHIEVED.
13. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORM WATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES. STORM WATER FROM DISTURBED AREAS MUST PASS THROUGH SILTATION FENCE BEFORE DISCHARGE BEYOND DISTURBED AREAS OR INTO INLETS OF OTHER DRAINAGE SYSTEMS.
14. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES OR WATER COURSES.

GENERAL EROSION AND SEDIMENT CONTROL NOTES (CONT.):

15. ALL AREAS OF SOIL DISTURBANCES RESULTING FROM THIS PROJECT SHALL BE SEEDED WITH AN APPROVED PERENNIAL GRASS SEED AND MULCHED WITH STRAW WITHIN ONE WEEK OF FINAL GRADING. IF CONSTRUCTION ACTIVITIES ARE DISCONTINUED IN AREAS OF SOIL DISTURBANCES BEFORE FINAL GRADING IS COMPLETE, TEMPORARY GRADING SHALL ALSO BE SEEDED AND MULCHED A.O.B.E. MULCH SHALL BE MAINTAINED UNTIL A SUITABLE COVER IS ESTABLISHED.
16. OTHER EROSION CONTROL MEASURES MAY BE REQUIRED A.O.B.E. IN ADDITION TO SCHEMES SHOWN. PAYMENT FOR ADDITIONAL WORK SHALL BE PAID UNDER THE APPROPRIATE ITEM IN THE CONTRACT.
17. ENCLOSE ANY TEMPORARY STOCKPILES OF TOPSOIL OR FILL WITH SILT FENCE TO PREVENT EROSION OF THE PILE. ALL SILT FENCE SHALL BE INSTALLED ON THE CONTOUR WITH A GRADE OF 2% OR LESS. STOCKPILES EXPOSED FOR LONGER THAN TWO WEEKS SHALL BE STABILIZED WITH A TEMPORARY SEEDING AND MULCH.
18. THE LOCATIONS OF EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED IN THE CONTRACT DOCUMENTS MAY REQUIRE FIELD ADJUSTMENT DEPENDING ON THE SEQUENCE OF CONSTRUCTION ACTIVITIES, CONSTRUCTION METHODS, AND/OR ACTUAL FIELD CONDITIONS. THE ENGINEER SHALL BE NOTIFIED OF ANY SIGNIFICANT FIELD CHANGES TO THE EROSION AND SEDIMENT CONTROL MEASURES INDICATED IN THE CONTRACT DOCUMENTS.
19. TYPICALLY, THE SILT FENCE SHALL BE INSTALLED ALONG EXISTING/PROPOSED CONTOUR LINES.
20. THE CONTRACTOR SHALL COMPLY WITH THE NYSDOT STANDARD SHEET, DETAIL WITHIN THE CONTRACT DOCUMENTS, AND MANUFACTURER INSTALLTATION GUIDE WHEN INSTALLING EROSION, AND SEDIMENT CONTROL MEASURES OR A.O.B.E.

AFFIX SEAL: SEAN W. MILLER
ON: 8/20/2019

ALTERED BY:
ON:

STATE OF NEW YORK · SEAN W. MILLER · 085445 · LICENSED PROFESSIONAL ENGINEER

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION
COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33
BRIDGES 3322810
CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

EROSION AND SEDIMENT CONTROL PLAN

DRAWING NO. ECP-1
SHEET NO. 19

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

PROJECT MANAGER T. BUTLER
CHECK T. BUTLER / S. MILLER
DRAFTING D. CLARK
CHECK K. ALBERTS / S. MILLER
DESIGN D. CLARK
JOB MANAGER S. MILLER/J. HOFMANN
DESIGN SUPERVISOR J. HOFMANN

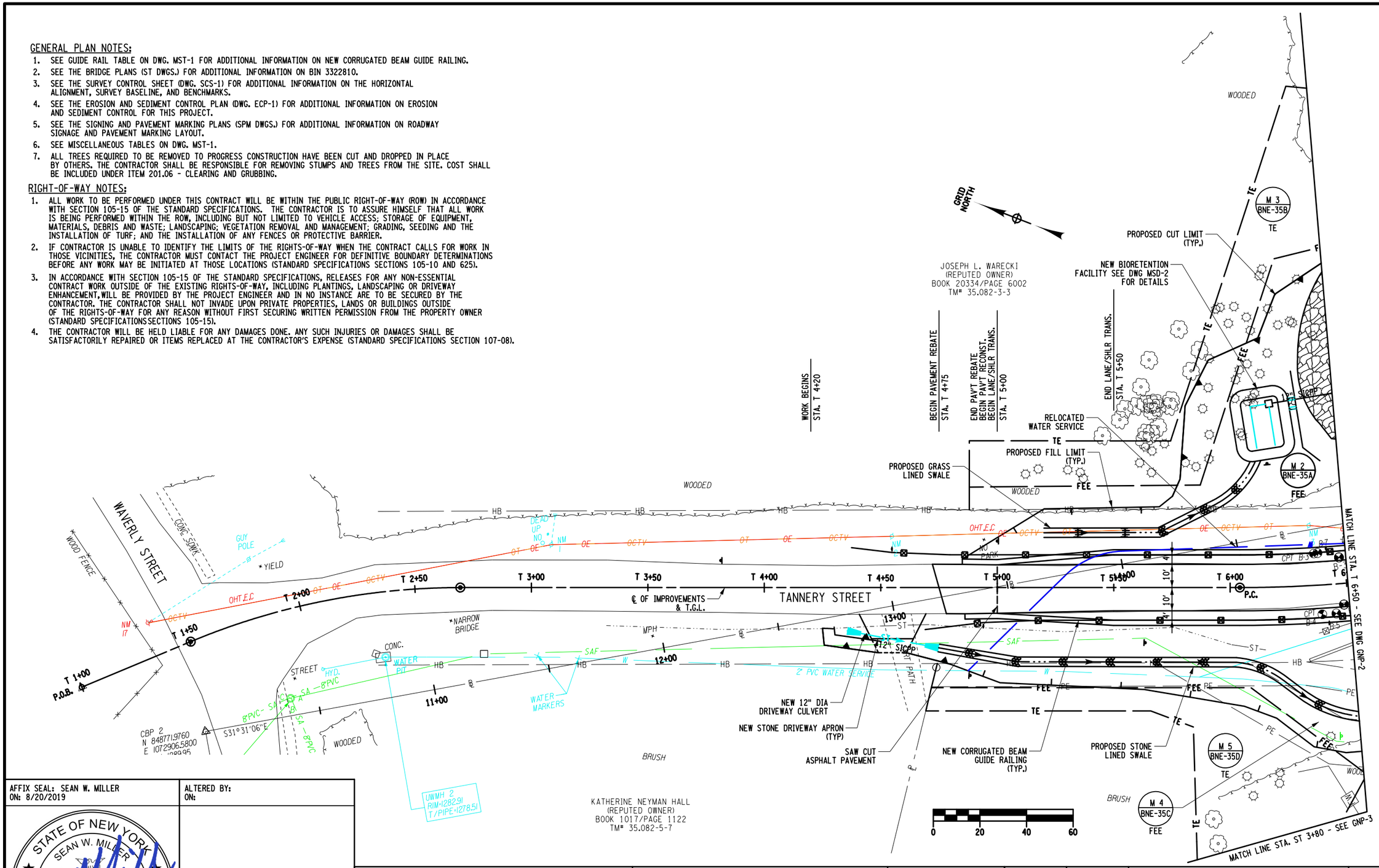
FILE NAME = U:\9192500172\Transportation\design\drawing\Plan Set\19 - ECP-1.dgn
DATE/TIME = 9/16/2019 2:36:09 PM
USER = blambert

GENERAL PLAN NOTES:

1. SEE GUIDE RAIL TABLE ON DWG. MST-1 FOR ADDITIONAL INFORMATION ON NEW CORRUGATED BEAM GUIDE RAILING.
2. SEE THE BRIDGE PLANS (ST DWGS.) FOR ADDITIONAL INFORMATION ON BIN 3322810.
3. SEE THE SURVEY CONTROL SHEET (DWG. SCS-1) FOR ADDITIONAL INFORMATION ON THE HORIZONTAL ALIGNMENT, SURVEY BASELINE, AND BENCHMARKS.
4. SEE THE EROSION AND SEDIMENT CONTROL PLAN (DWG. ECP-1) FOR ADDITIONAL INFORMATION ON EROSION AND SEDIMENT CONTROL FOR THIS PROJECT.
5. SEE THE SIGNING AND PAVEMENT MARKING PLANS (SPM DWGS.) FOR ADDITIONAL INFORMATION ON ROADWAY SIGNAGE AND PAVEMENT MARKING LAYOUT.
6. SEE MISCELLANEOUS TABLES ON DWG. MST-1.
7. ALL TREES REQUIRED TO BE REMOVED TO PROGRESS CONSTRUCTION HAVE BEEN CUT AND DROPPED IN PLACE BY OTHERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING STUMPS AND TREES FROM THE SITE. COST SHALL BE INCLUDED UNDER ITEM 201.06 - CLEARING AND GRUBBING.

RIGHT-OF-WAY NOTES:

1. 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.
2. IF CONTRACTOR IS UNABLE TO IDENTIFY THE LIMITS OF THE RIGHTS-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).
3. IN ACCORDANCE WITH SECTION 105-15 OF THE STANDARD SPECIFICATIONS, RELEASES FOR ANY NON-ESSENTIAL 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 SECURED 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).
4. THE CONTRACTOR WILL BE HELD LIABLE FOR ANY DAMAGES DONE. ANY SUCH INJURIES OR DAMAGES SHALL BE SATISFACTORILY REPAIRED OR ITEMS REPLACED AT THE CONTRACTOR'S EXPENSE (STANDARD SPECIFICATIONS SECTION 107-08).



AFFIX SEAL: SEAN W. MILLER ON: 8/20/2019	ALTERED BY: ON:

STATE OF NEW YORK · SEAN W. MILLER · LICENSED PROFESSIONAL ENGINEER · 085445

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION COUNTY: CATTARAUGUS REGION: 5	PIN 5757.33	BRIDGES 3322810	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED ROADWAY PLAN STA. T 1+00 TO STA. T 6+50

DRAWING NO. GNP-1
SHEET NO. 20

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

CATTARAUGUS COUNTY DEPARTMENT OF PUBLIC WORKS

Stantec

DESIGN SUPERVISOR J. HOFMANN · JOB MANAGER S. MILLER/J. HOFMANN · DESIGN D. CLARK · DRAFTING D. CLARK · CHECK S. MILLER/K. ALBERTS · PROJECT MANAGER T. BUTLER

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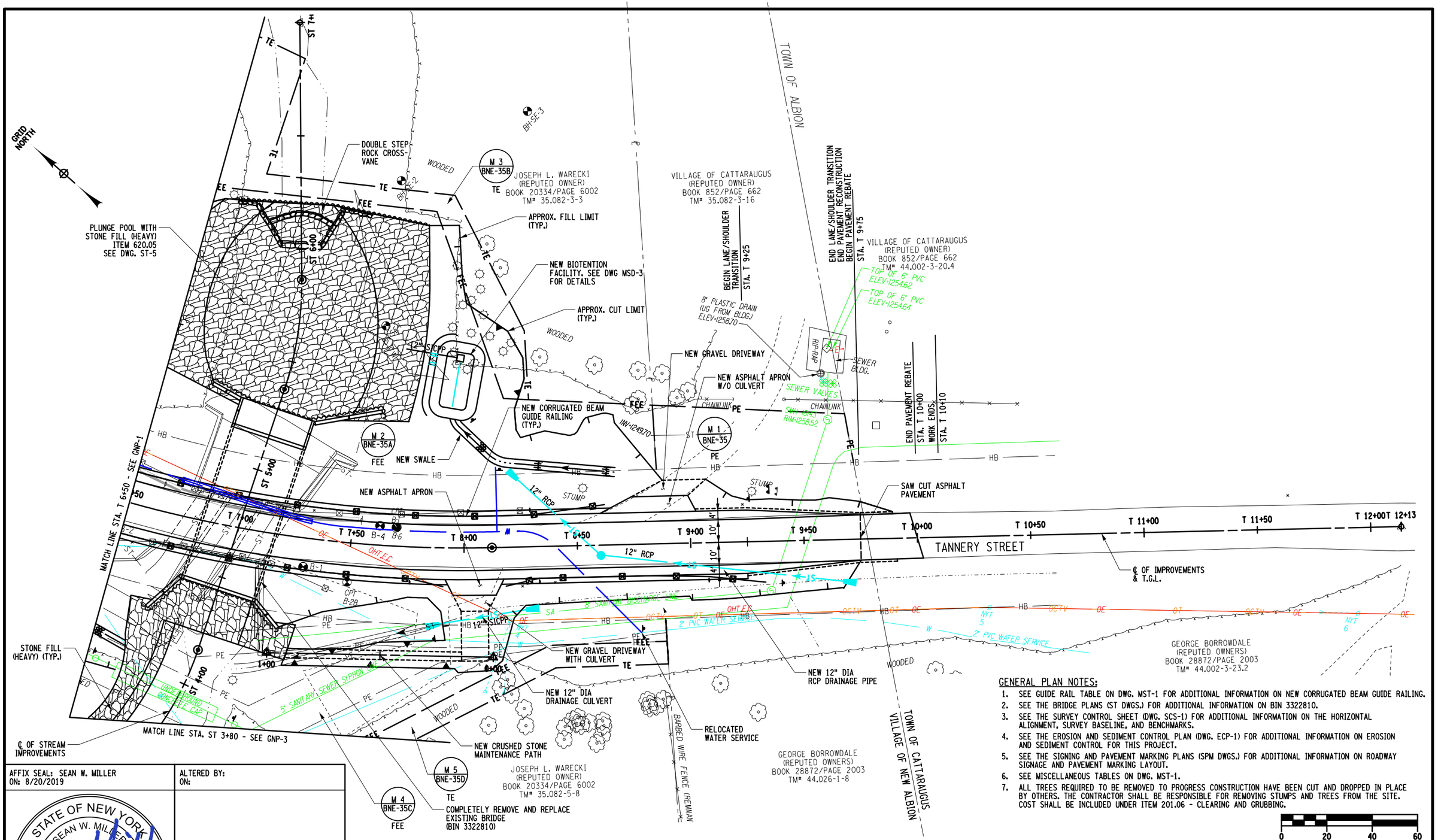
USER = blambert



GENERAL PLAN NOTES:

1. SEE GUIDE RAIL TABLE ON DWG. MST-1 FOR ADDITIONAL INFORMATION ON NEW CORRUGATED BEAM GUIDE RAILING.
2. SEE THE BRIDGE PLANS (ST DWGS.) FOR ADDITIONAL INFORMATION ON BIN 3322810.
3. SEE THE SURVEY CONTROL SHEET (DWG. SCS-1) FOR ADDITIONAL INFORMATION ON THE HORIZONTAL ALIGNMENT, SURVEY BASELINE, AND BENCHMARKS.
4. SEE THE EROSION AND SEDIMENT CONTROL PLAN (DWG. ECP-1) FOR ADDITIONAL INFORMATION ON EROSION AND SEDIMENT CONTROL FOR THIS PROJECT.
5. SEE THE SIGNING AND PAVEMENT MARKING PLANS (SPM DWGS.) FOR ADDITIONAL INFORMATION ON ROADWAY SIGNAGE AND PAVEMENT MARKING LAYOUT.
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7. ALL TREES REQUIRED TO BE REMOVED TO PROGRESS CONSTRUCTION HAVE BEEN CUT AND DROPPED IN PLACE BY OTHERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING STUMPS AND TREES FROM THE SITE. COST SHALL BE INCLUDED UNDER ITEM 201.06 - CLEARING AND GRUBBING.

0 20 40 60

AFFIX SEAL: SEAN W. MILLER
ON: 8/20/2019

ALTERED BY:
ON:

STATE OF NEW YORK
SEAN W. MILLER
085445
LICENSED PROFESSIONAL ENGINEER

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION
COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33

BRIDGES 3322810

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ROADWAY PLAN
STA. T 6+50 TO STA. 12+13

DRAWING NO. GNP-2
SHEET NO. 21

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

DESIGN SUPERVISOR J. HOFMANN
JOB MANAGER S. MILLER/J. HOFMANN
DESIGN D. CLARK
CHECK K. ALBERTS / S. MILLER
DRAFTING D. CLARK
CHECK T. BUTLER / S. MILLER
PROJECT MANAGER T. BUTLER

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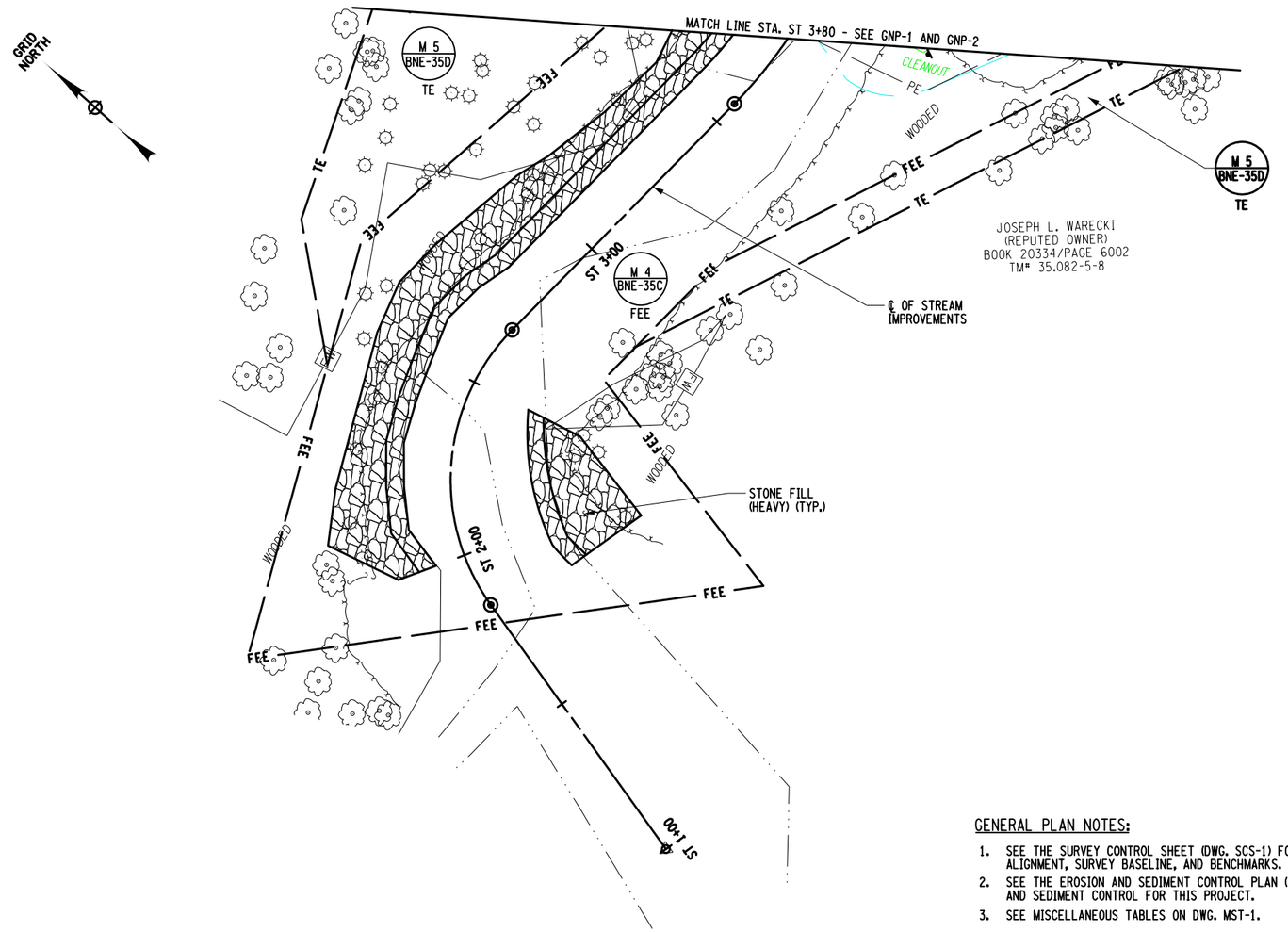
TABLE OF PROPERTIES ACQUIRED BY CATTARAUGUS COUNTY										
MAP NO.	PARCEL NO.	REPUTED OWNER	INSTRUMENT NUMBER	GNP NO.	TYPE OF TAKE	AREA		ORIGINAL AREA ACRE ±	% OF ORGI. AREA AQUIRED	REMARKS
						SF	ACRE			
1	BNE-35	VILLAGE OF CATTARAUGUS	296839-001	2	PE	2134	0.05	0.7	7.1	FOR ACCESS
2	BNE-35A	JOSEPH L. WARECKI	201904453	1 & 2	FEE	22903	0.53	7.3	7.3	STREAM WORK & STORMWATER
3	BNE-35B	JOSEPH L. WARECKI	201904456	1 & 2	TE	8505	0.20	7.3	2.7	WORK AREA & ACCESS
4	BNE-35C	JOSEPH L. WARECKI	201904454	1,2 ,3	FEE	31373	0.72	10.3	7.0	STREAM WORK
5	BNE-35D	JOSEPH L. WARECKI	201904455	1,2,3	TE	10671	0.24	10.3	2.3	WORK AREA & ACCESS



GENERAL PLAN NOTES:

1. SEE THE SURVEY CONTROL SHEET (DWG. SCS-1) FOR ADDITIONAL INFORMATION ON THE HORIZONTAL ALIGNMENT, SURVEY BASELINE, AND BENCHMARKS.
2. SEE THE EROSION AND SEDIMENT CONTROL PLAN (DWG. ECP-1) FOR ADDITIONAL INFORMATION ON EROSION AND SEDIMENT CONTROL FOR THIS PROJECT.
3. SEE MISCELLANEOUS TABLES ON DWG. MST-1.

0 20 40 60

AFFIX SEAL: SEAN W. MILLER
ON: 8/20/2019

STATE OF NEW YORK
SEAN W. MILLER
LICENSED PROFESSIONAL ENGINEER
085445

ALTERED BY:
ON:

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION
COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33

BRIDGES 3322810

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ROADWAY PLAN
STA. ST 1+00 TO 3+80

DRAWING NO. GNP-3
SHEET NO. 22

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

DESIGN SUPERVISOR J. HOFMANN | JOB MANAGER S. MILLER/J. HOFMANN | DESIGN D. CLARK | CHECK K. ALBERTS | S. MILLER/
DRAFTING D. CLARK | CHECK T. BUTLER | S. MILLER /
PROJECT MANAGER T. BUTLER | T. BUTLER

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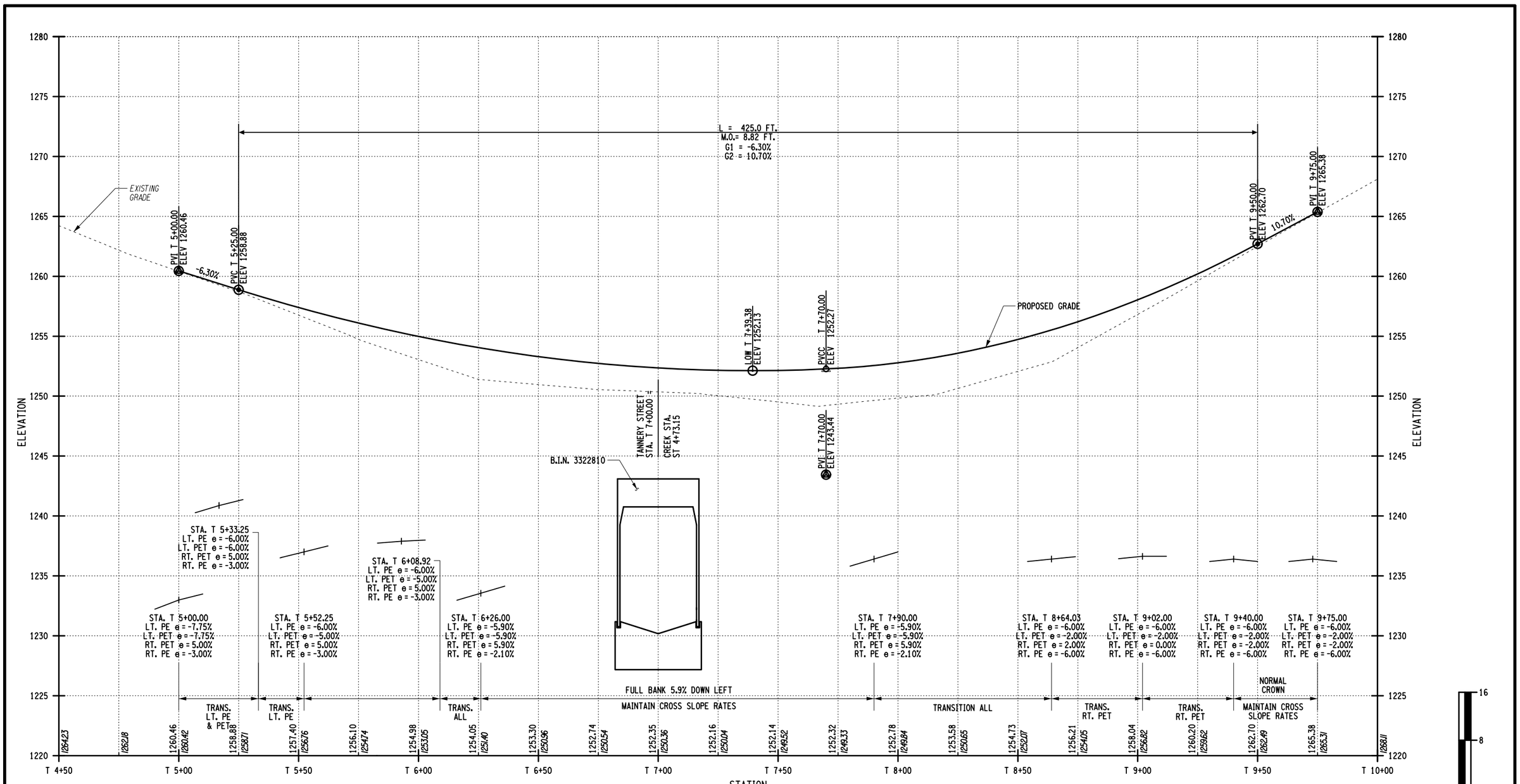

CENTERLINE PROFILE FOR TANNERY STREET

NOTE:

1. THE UTILITY COMPANIES WILL RELOCATE AND OR VERIFY EXISTING OVERHEAD UTILITY LINES VERTICAL CLEARANCE. PROVIDE A MINIMUM CLEARANCE OF 16'-6"

AFFIX SEAL: SEAN W. MILLER
ON: 8/20/2019

ALTERED BY:
ON:

STATE OF NEW YORK
SEAN W. MILLER
LICENSED PROFESSIONAL ENGINEER
085445

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION

COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33

BRIDGES 3322810

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ROADWAY PROFILE
STA. T 4+50 TO STA. T 10+00

DRAWING NO. PRO-1
SHEET NO. 23

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

PROJECT MANAGER T. BUTLER
CHECK T. BUTLER / S. MILLER
DRAFTING D. CLARK
DESIGN D. CLARK
JOB MANAGER J. HOFMANN / S. MILLER
DESIGN SUPERVISOR J. HOFMANN
CHECK K. ALBERTS / S. MILLER

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DATE/TIME = 9/16/2019 2:36:21 PM
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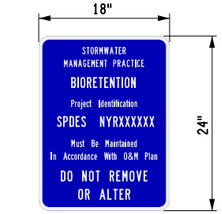
SIGNING NOTES:

1. SIGN LOCATIONS AS SHOWN ON PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL INSTALL NEW SIGNS AND RELOCATE EXISTING SIGNS IN ACCORDANCE WITH THE MUTCD AND NYS SUPPLEMENT. THE ENGINEER IN CHARGE SHALL CONTACT THE DESIGN ENGINEER WITH QUESTIONS.
2. THE COLOR IS ONLY SHOWN WHEN THERE IS AN OPTION THAT MUST BE SPECIFIED.
3. THE AREA AND PAYMENT AREA FOR SIGNS ARE FROM THE APPLICABLE STANDARD SHEETS OR SIGN FACE LAYOUTS.
4. THE TOTAL PAYMENT QUANTITY IS OBTAINED BY MULTIPLYING THE NUMBER OF LOCATIONS (SHOWN IN THE LOWER RIGHT CORNER OF THE LOCATIONS BLOCK) BY THE PAYMENT FACTOR.

SIGNING SUMMARY TABLE
(PANELS AND POSTS)

ITEM NUMBER	QUANTITY
645.5102	45.1 SF
645.81	11.0 EA
647.61	12.0 EA

DESIGNATION & COLOR (SEE NOTE 2)	LOCATION	TEXT	ITEM	SIZE AREA (SEE NOTE 3)	PAYMENT AREA (SEE NOTE 3) TOTAL PAYMENT AREA
W3-02	1-1 / 1		645.5102	30" X 30"	6.3 SF
				6.3 SF	6.3 SF
NYP1-16	1-2 / 1		645.5102	30" X 36"	7.5 SF
				7.5 SF	7.5 SF
WHITE LEGEND ON BLUE BACKGROUND	1-3, 2-1 / 2		645.5102	18" X 24"	3.0 SF
				3.0 SF	6.0 SF
NYR2-5	2-2 / 1		645.5102	24" X 30"	5.0 SF
				5.0 SF	5.0 SF
NYI12-2A	2-3 / 1		645.5102	54" X 30"	11.3 SF
				11.3 SF	11.3 SF
R5-2	2-4 / 1		645.5102	24" X 24"	4.0 SF
				4.0 SF	4.0 SF
R12-1	2-4 / 1		645.5102	24" X 30"	5.0 SF
				5.0 SF	5.0 SF



STORMWATER PRACTICE IDENTIFICATION SIGN

NOTE: SPDES IDENTIFICATION NUMBER TO BE PROVIDED BY NYSDEC AFTER A NOTICE OF INTENT IS SUBMITTED AND APPROVED

AFFIX SEAL: SEAN W. MILLER
ON: 8/20/2019

ALTERED BY:
ON:

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION
COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33
BRIDGES 3322810
CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

SIGN TEXT DATA SHEET

DRAWING NO. SDS-1
SHEET NO. 24

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

DESIGN SUPERVISOR J. HOFMANN | JOB MANAGER S. MILLER/J. HOFMANN | DESIGN D. CLARK | CHECK K. ALBERTS | DRAFTING D. CLARK | CHECK T. BUTLER | PROJECT MANAGER T. BUTLER

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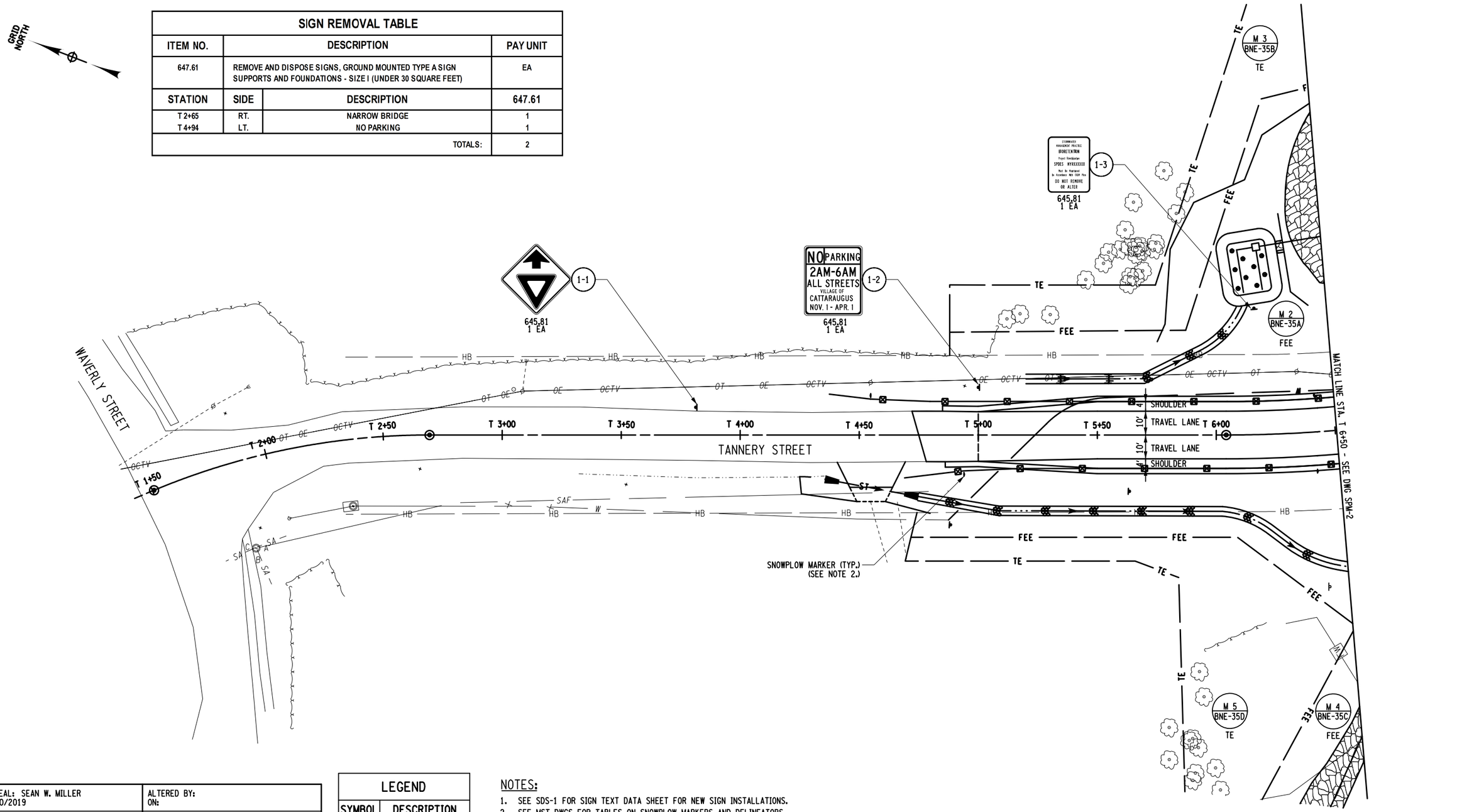
SIGN REMOVAL TABLE			
ITEM NO.	DESCRIPTION		PAY UNIT
647.61	REMOVE AND DISPOSE SIGNS, GROUND MOUNTED TYPE A SIGN SUPPORTS AND FOUNDATIONS - SIZE I (UNDER 30 SQUARE FEET)		EA
STATION	SIDE	DESCRIPTION	647.61
T 2+65	RT.	NARROW BRIDGE	1
T 4+94	LT.	NO PARKING	1
		TOTALS:	2



LEGEND	
SYMBOL	DESCRIPTION
(L)	NEW SIGN LOCATION NUMBER

NOTES:

1. SEE SDS-1 FOR SIGN TEXT DATA SHEET FOR NEW SIGN INSTALLATIONS.
2. SEE MST DWGS FOR TABLES ON SNOWPLOW MARKERS AND DELINEATORS.
3. THE CONTRACTOR SHALL REMOVE ANY ADDITIONAL EXISTING SIGNS THAT CONFLICT WITH THE NEW SIGNS INSTALLED AS PART OF THIS PROJECT, A.O.B.E.

AFFIX SEAL: SEAN W. MILLER
ON: 8/20/2019

ALTERED BY:
ON:

STATE OF NEW YORK
SEAN W. MILLER
LICENSED PROFESSIONAL ENGINEER
085445

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION
COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33

BRIDGES 3322810

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

SIGNING AND PAVEMENT MARKING PLAN
STA. T 1+50 TO STA. T 6+50

DRAWING NO. SPM-1
SHEET NO. 25

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

PROJECT MANAGER T. BUTLER
CHECK T. BUTLER
DRAFTING D. CLARK
CHECK K. ALBERTS
DESIGN SUPERVISOR J. HOFMANN
JOB MANAGER S. MILLER/J. HOFMANN
DESIGN D. CLARK
CHECK S. MILLER /

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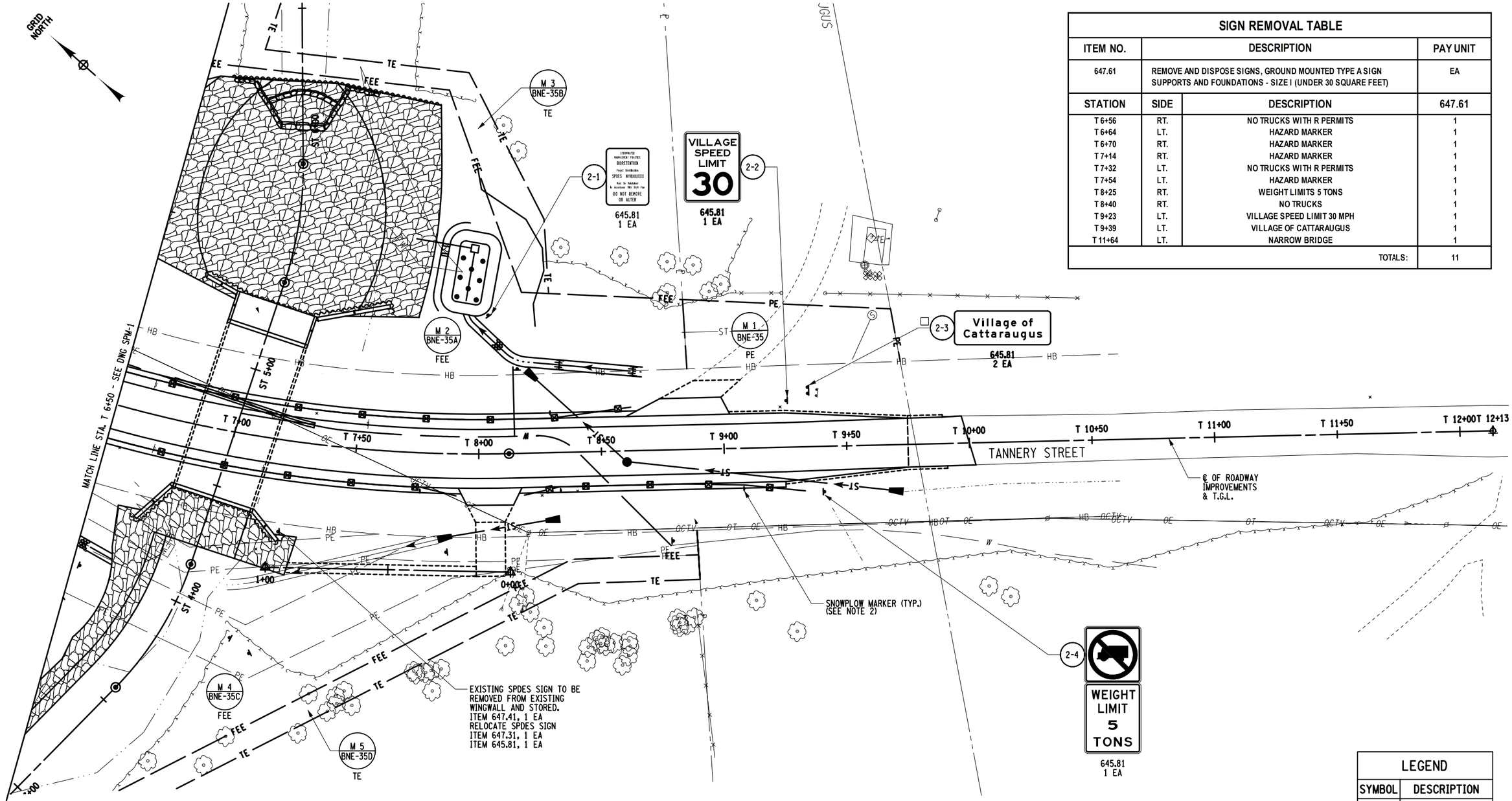

SIGN REMOVAL TABLE

ITEM NO.	DESCRIPTION	PAY UNIT
647.61	REMOVE AND DISPOSE SIGNS, GROUND MOUNTED TYPE A SIGN SUPPORTS AND FOUNDATIONS - SIZE I (UNDER 30 SQUARE FEET)	EA

STATION	SIDE	DESCRIPTION	647.61
T 6+56	RT.	NO TRUCKS WITH R PERMITS	1
T 6+64	LT.	HAZARD MARKER	1
T 6+70	RT.	HAZARD MARKER	1
T 7+14	RT.	HAZARD MARKER	1
T 7+32	LT.	NO TRUCKS WITH R PERMITS	1
T 7+54	LT.	HAZARD MARKER	1
T 8+25	RT.	WEIGHT LIMITS 5 TONS	1
T 8+40	RT.	NO TRUCKS	1
T 9+23	LT.	VILLAGE SPEED LIMIT 30 MPH	1
T 9+39	LT.	VILLAGE OF CATTARAUGUS	1
T 11+64	LT.	NARROW BRIDGE	1
		TOTALS:	11

LEGEND

SYMBOL	DESCRIPTION
(L)	NEW SIGN LOCATION NUMBER

0 20 40 60

NOTES:

1. SEE SDS-1 FOR SIGN TEXT DATA SHEET FOR NEW SIGN INSTALLATIONS.
2. SEE MST DWGS FOR TABLES ON SNOWPLOW MARKERS AND DELINEATORS.
3. THE CONTRACTOR SHALL REMOVE ANY ADDITIONAL EXISTING SIGNS THAT CONFLICT WITH THE NEW SIGNS INSTALLED AS PART OF THIS PROJECT, A.O.B.E.

AFFIX SEAL: SEAN W. MILLER
ON: 8/20/2019

ALTERED BY:
ON:

STATE OF NEW YORK
SEAN W. MILLER
LICENSED PROFESSIONAL ENGINEER
085445

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION
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PIN 5757.33

BRIDGES 3322810

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

SIGNING AND PAVEMENT MARKING PLAN
STA. T 6+50 TO STA. 12+13

DRAWING NO. SPM-2
SHEET NO. 26

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

DESIGN SUPERVISOR J. HOFMANN | JOB MANAGER S. MILLER/J. HOFMANN | DESIGN D. CLARK | CHECK K. ALBERTS | DRAFTING D. CLARK | CHECK T. BUTLER | PROJECT MANAGER T. BUTLER | S. MILLER / T. BUTLER

FILE NAME = U:\9192500172\Transportation\design\drawing\Plan Set\26 - SPM-2.dgn
DATE/TIME = 9/16/2019 2:36:25 PM
USER = blambert

UTILITY PLAN NOTES:

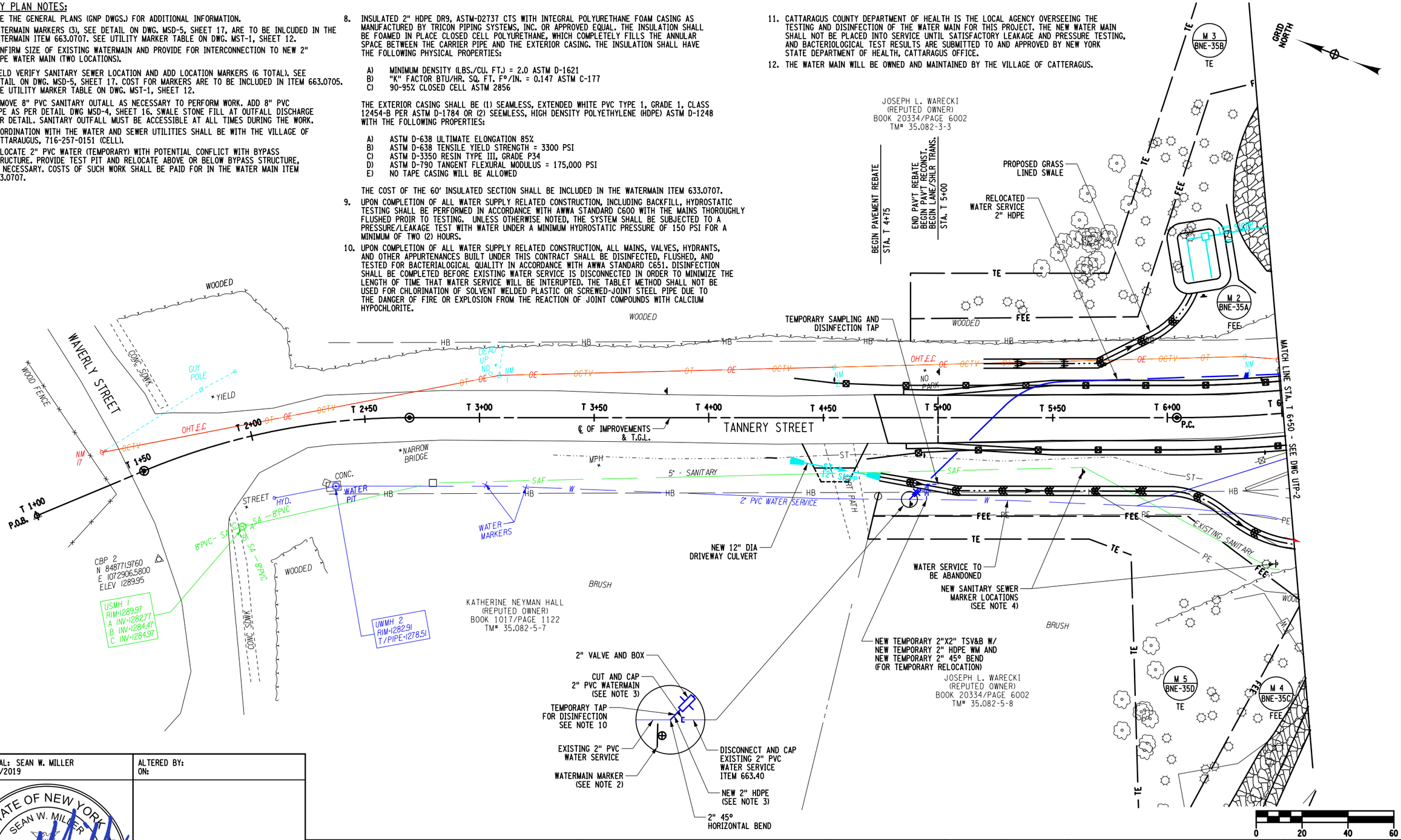
1. SEE THE GENERAL PLANS (GNP DWGS.) FOR ADDITIONAL INFORMATION.
2. WATERMAIN MARKERS (3), SEE DETAIL ON DWG. MSD-5, SHEET 17, ARE TO BE INLCUDED IN THE WATERMAIN ITEM 663.0707. SEE UTILITY MARKER TABLE ON DWG. MST-1, SHEET 12.
3. CONFIRM SIZE OF EXISTING WATERMAIN AND PROVIDE FOR INTERCONNECTION TO NEW 2" HDPE WATER MAIN (TWO LOCATIONS).
4. FIELD VERIFY SANITARY SEWER LOCATION AND ADD LOCATION MARKERS (6 TOTAL). SEE DETAIL ON DWG. MSD-5, SHEET 17. COST FOR MARKERS ARE TO BE INCLUDED IN ITEM 663.0705. SEE UTILITY MARKER TABLE ON DWG. MST-1, SHEET 12.
5. REMOVE 8" PVC SANITARY OUTALL AS NECESSARY TO PERFORM WORK. ADD 8" PVC PIPE AS PER DETAIL DWG MSD-4, SHEET 16. SWALE STONE FILL AT OUTFALL DISCHARGE PER DETAIL. SANITARY OUTFALL MUST BE ACCESSIBLE AT ALL TIMES DURING THE WORK.
6. COORDINATION WITH THE WATER AND SEWER UTILITIES SHALL BE WITH THE VILLAGE OF CATTARAUGUS, 716-257-0151 (CELL).
7. RELOCATE 2" PVC WATER (TEMPORARY) WITH POTENTIAL CONFLICT WITH BYPASS STRUCTURE. PROVIDE TEST PIT AND RELOCATE ABOVE OR BELOW BYPASS STRUCTURE, IF NECESSARY. COSTS OF SUCH WORK SHALL BE PAID FOR IN THE WATER MAIN ITEM 663.0707.
8. INSULATED 2" HDPE DR9, ASTM-D2737 CTS WITH INTEGRAL POLYURETHANE FOAM CASING AS MANUFACTURED BY TRICON PIPING SYSTEMS, INC. OR APPROVED EQUAL. THE INSULATION SHALL BE FOAMED IN PLACE CLOSED CELL POLYURETHANE, WHICH COMPLETELY FILLS THE ANNULAR SPACE BETWEEN THE CARRIER PIPE AND THE EXTERIOR CASING. THE INSULATION SHALL HAVE THE FOLLOWING PHYSICAL PROPERTIES:

   A) MINIMUM DENSITY (LBS./CU. FT.) = 2.0 ASTM D-1621
   B) "K" FACTOR BTU/HR. SQ. FT. F°/IN. = 0.147 ASTM C-177
   C) 90-95% CLOSED CELL ASTM 2856

   THE EXTERIOR CASING SHALL BE (1) SEAMLESS, EXTENDED WHITE PVC TYPE 1, GRADE 1, CLASS 12454-B PER ASTM D-1784 OR (2) SEEMLESS, HIGH DENSITY POLYETHYLENE (HDPE) ASTM D-1248 WITH THE FOLLOWING PROPERTIES:

   A) ASTM D-638 ULTIMATE ELONGATION 85%
   B) ASTM D-638 TENSILE YIELD STRENGTH = 3300 PSI
   C) ASTM D-3350 RESIN TYPE III, GRADE P34
   D) ASTM D-790 TANGENT FLEXURAL MODULUS = 175,000 PSI
   E) NO TAPE CASING WILL BE ALLOWED

   THE COST OF THE 60' INSULATED SECTION SHALL BE INCLUDED IN THE WATERMAIN ITEM 633.0707.
9. UPON COMPLETION OF ALL WATER SUPPLY RELATED CONSTRUCTION, INCLUDING BACKFILL, HYDROSTATIC TESTING SHALL BE PERFORMED IN ACCORDANCE WITH AWWA STANDARD C600 WITH THE MAINS THOROUGHLY FLUSHED PROIR TO TESTING. UNLESS OTHERWISE NOTED, THE SYSTEM SHALL BE SUBJECTED TO A PRESSURE/LEAKAGE TEST WITH WATER UNDER A MINIMUM HYDROSTATIC PRESSURE OF 150 PSI FOR A MINIMUM OF TWO (2) HOURS.
10. UPON COMPLETION OF ALL WATER SUPPLY RELATED CONSTRUCTION, ALL MAINS, VALVES, HYDRANTS, AND OTHER APPURTENANCES BUILT UNDER THIS CONTRACT SHALL BE DISINFECTED, FLUSHED, AND TESTED FOR BACTERIALOGICAL QUALITY IN ACCORDANCE WITH AWWA STANDARD C651. DISINFECTION SHALL BE COMPLETED BEFORE EXISTING WATER SERVICE IS DISCONNECTED IN ORDER TO MINIMIZE THE LENGTH OF TIME THAT WATER SERVICE WILL BE INTERUPTED. THE TABLET METHOD SHALL NOT BE USED FOR CHLORINATION OF SOLVENT WELDED PLASTIC OR SCREWED-JOINT STEEL PIPE DUE TO THE DANGER OF FIRE OR EXPLOSION FROM THE REACTION OF JOINT COMPOUNDS WITH CALCIUM HYPOCHLORITE.
11. CATTARAGUS COUNTY DEPARTMENT OF HEALTH IS THE LOCAL AGENCY OVERSEEING THE TESTING AND DISINFECTION OF THE WATER MAIN FOR THIS PROJECT. THE NEW WATER MAIN SHALL NOT BE PLACED INTO SERVICE UNTIL SATISFACTORY LEAKAGE AND PRESSURE TESTING, AND BACTERIOLOGICAL TEST RESULTS ARE SUBMITTED TO AND APPROVED BY NEW YORK STATE DEPARTMENT OF HEALTH, CATTARAGUS OFFICE.
12. THE WATER MAIN WILL BE OWNED AND MAINTAINED BY THE VILLAGE OF CATTERAGUS.



AFFIX SEAL: SEAN W. MILLER ON: 8/20/2019	ALTERED BY: ON:

STATE OF NEW YORK · SEAN W. MILLER · LICENSED PROFESSIONAL ENGINEER · 085445

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION COUNTY: CATTARAUGUS REGION: 5	PIN 5757.33	BRIDGES 3322810	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED UTILITY PLAN STA. T 1+00 TO STA. T 6+50

DRAWING NO. UTP-1
SHEET NO. 27

CATTARAUGUS COUNTY DEPARTMENT OF PUBLIC WORKS

Stantec

DESIGN SUPERVISOR J. HOFMANN · JOB MANAGER S. MILLER/J. HOFMANN · DESIGN D. CLARK · DRAFTING D. CLARK · CHECK K. ALBERTS · PROJECT MANAGER T. BUTLER · S. MILLER / T. BUTLER · S. MILLER/

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GRID NORTH

MATCH LINE STA. T 6+50 - SEE UTP-1

JOSEPH L. WARECKI (REPUTED OWNER) BOOK 20334/PAGE 6002 TM# 35.082-3-3

VILLAGE OF CATTARAUGUS (REPUTED OWNER) BOOK 852/PAGE 662 TM# 35.082-3-16

VILLAGE OF CATTARAUGUS (REPUTED OWNER) BOOK 852/PAGE 662 TM# 44.002-3-20.4

END LANE/SHOULDER TRANSITION
END PAVEMENT RECONSTRUCTION
BEGIN PAVEMENT REBATE
STA. T 9+75

END PAVEMENT REBATE
STA. T 10400
WORK ENDS
STA. T 10410

M 1 BNE-35 PE

M 2 BNE-35A FEE

M 3 BNE-35B TE

M 4 BNE-35C FEE

M 5 BNE-35D TE

NEW BIORETENTION FACILITY. SEE DWG MSD-3 FOR DETAILS

NEW SWALE

WATERMAIN MARKER (SEE NOTE 2, DWG. UTP-1)

1" BLOW OFF, SEE DETAIL ON MSD-6, SHEET 18

SLOPE TO DAYLIGHT

2" BUFFALO BOX

2"X1" TEE

2" PVC WATERMAIN WITH 6" INSULATION (SEE NOTE 8, UPT-1, SHEET 26)

8" PLASTIC DRAIN (UG FROM BLDG.) ELEV=125870

TOP OF 6" PVC ELEV=125462

TOP OF 6" PVC ELEV=125464

SEWER BLDG.

SEWER VALVES

SMH 1845 RIM=125852

INV=124970

12" RCP

STUMP

TANNERY STREET

℄ OF IMPROVEMENTS & T.G.L.

NEW SANITARY SEWER MARKER (SEE NOTE 4, DWG. UTP-1)

8" SANITARY DISCHARGE LINE

2" PVC WATER SERVICE

5' SANITARY SEWER SYPHON LINE

EXISTING MANHOLE TO BE ABANDONED UNDERGROUND BACKFILL CAP TO REMAIN

CLEANOUT

NEW SANITARY SEWER MARKERS (SEE NOTE 4, DWG. UTP-1)

SANITARY OUTFALL (SEE NOTE 5, DWG. UTP-1)

CLEANOUT (SEE NOTE 3 ON CLEANOUT DETAIL ON DWG. MSD-4)

NEW 12" RCP STORM SEWER (TYP.)

TEMPORARY SAMPLING AND DISINFECTION TAP

RELOCATED WATER SERVICE 2" PVC

NEW TEMPORARY 2"X2" TSV&B W/ NEW TEMPORARY 2" HDPE WM AND NEW TEMPORARY 2" 45° BEND (FOR TEMPORARY RELOCATION)

NEW 12" DIA DRIVEWAY CULVERT

NEW SANITARY SEWER MARKER (SEE NOTE 4, DWG. UTP-1)

4' WALK PATH (SEE DETAIL ON DWG MSD-5, SHEET 17)

BARBED WIRE FENCE (REMNANTS)

JOSEPH L. WARECKI (REPUTED OWNER) BOOK 20334/PAGE 6002 TM# 35.082-5-8

GEORGE BORROWDALE (REPUTED OWNERS) BOOK 28872/PAGE 2003 TM# 44.026-1-8

GEORGE BORROWDALE (REPUTED OWNERS) BOOK 28872/PAGE 2003 TM# 44.002-3-23.2

TOWN OF NEW ALBION
VILLAGE OF CATTARAUGUS

2" VALVE AND BOX

WATERMAIN MARKER (SEE NOTE 2, DWG. UTP-1)

TEMPORARY TAP FOR DISINFECTION (SEE NOTE 10, DWG. UTP-1)

EXISTING 2" PVC WATER SERVICE

2" 45° HORIZONTAL BEND

DISCONNECT AND CAP EXISTING 2" PVC WATER SERVICE ITEM 663.40

CUT AND CAP 2" PVC WATERMAIN (SEE NOTE 3, DWG. UTP-1)

NEW 2" HDPE (SEE NOTE 3, DWG. UTP-1)

0 20 40 60

AFFIX SEAL: SEAN W. MILLER
ON: 8/20/2019

STATE OF NEW YORK
SEAN W. MILLER
LICENSED PROFESSIONAL ENGINEER
085445

ALTERED BY:
ON:

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION

COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33

BRIDGES 3322810

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

UTILITY PLAN

STA. T 6+50 TO STA. 12+13

DRAWING NO. UTP-2
SHEET NO. 28

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

DESIGN SUPERVISOR J. HOFMANN | JOB MANAGER S. MILLER/J. HOFMANN | DESIGN D. CLARK | DRAFTING D. CLARK | CHECK S. MILLER/ K. ALBERTS | PROJECT MANAGER T. BUTLER

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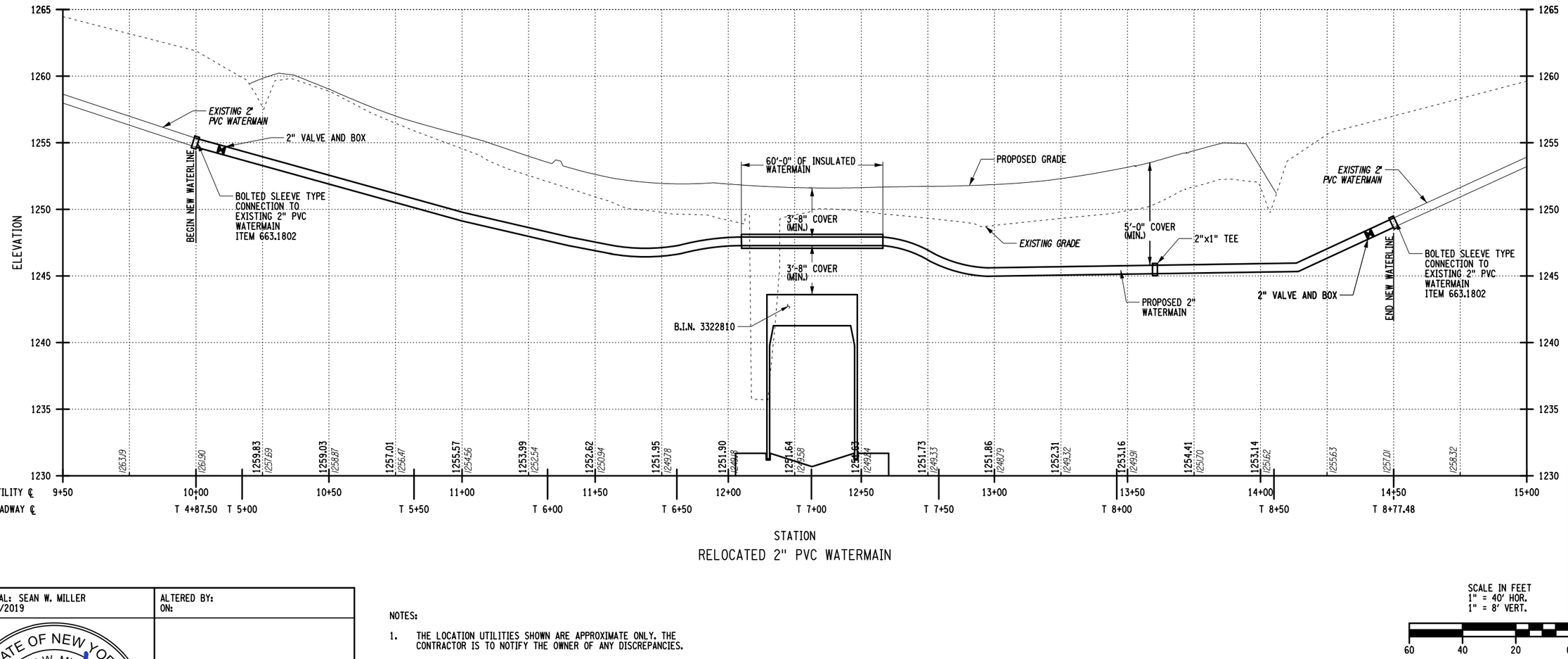

RELOCATED 2" PVC WATERMAIN

NOTES:

1. THE LOCATION UTILITIES SHOWN ARE APPROXIMATE ONLY. THE CONTRACTOR IS TO NOTIFY THE OWNER OF ANY DISCREPANCIES.

AFFIX SEAL: SEAN W. MILLER ON: 8/20/2019	ALTERED BY: ON:

STATE OF NEW YORK · SEAN W. MILLER · LICENSED PROFESSIONAL ENGINEER · 085445

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION
COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33 | BRIDGES 3322810 | CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

WATERMAIN PROFILE
STA. 9+50 TO STA. 14+75

DRAWING NO. UTP-3
SHEET NO. 29

CATTARAUGUS COUNTY DEPARTMENT OF PUBLIC WORKS

Stantec

DESIGN SUPERVISOR J. HOFMANN | JOB MANAGER S. MILLER/J. HOFMANN | DESIGN D. CLARK | CHECK K. ALBERTS | DRAFTING D. CLARK | CHECK S. MILLER / T. BUTLER | PROJECT MANAGER T. BUTLER

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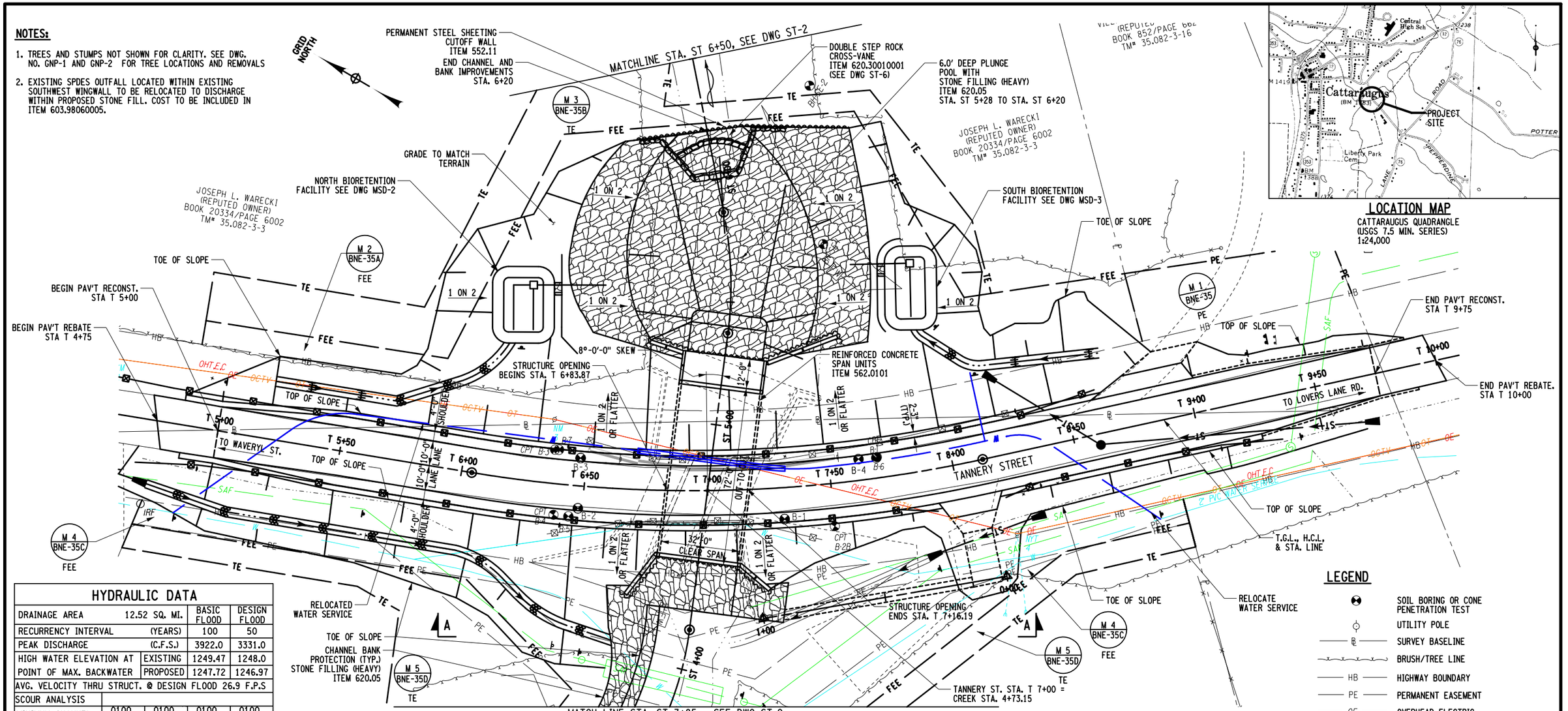
NOTES:

1. TREES AND STUMPS NOT SHOWN FOR CLARITY. SEE DWG. NO. GNP-1 AND GNP-2 FOR TREE LOCATIONS AND REMOVALS
2. EXISTING SPDES OUTFALL LOCATED WITHIN EXISTING SOUTHWEST WINGWALL TO BE RELOCATED TO DISCHARGE WITHIN PROPOSED STONE FILL. COST TO BE INCLUDED IN ITEM 603.98060005.



LOCATION MAP

CATTARAUGUS QUADRANGLE
(USGS 7.5 MIN. SERIES)
1:24,000

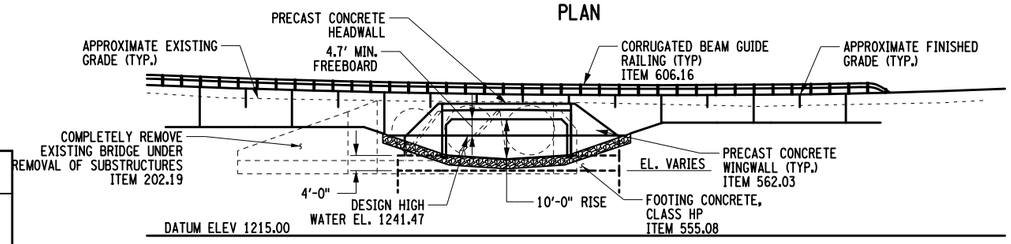
HYDRAULIC DATA

		BASIC FLOOD	DESIGN FLOOD
DRAINAGE AREA 12.52 SQ. MI.			
RECURRENCY INTERVAL	(YEARS)	100	50
PEAK DISCHARGE	(C.F.S.)	3922.0	3331.0
HIGH WATER ELEVATION AT	EXISTING	1249.47	1248.0
POINT OF MAX. BACKWATER	PROPOSED	1247.72	1246.97
AVG. VELOCITY THRU STRUCT. @ DESIGN FLOOD 26.9 F.P.S			
SCOUR ANALYSIS			

MINIMUM CHANNEL ELEVATION (FT.)	Q100 SCOUR DEPTH (FT.)	Q100 SCOUR DEPTH (FT.)	Q100 SCOUR DEPTH (FT.)	Q100 SCOUR DEPTH (FT.)
INLET - 1235.18	7.957	1227.22	8.591	1226.58
OUTLET - 1227.68	7.957	1219.72	8.591	1219.08

THE PROPOSED STRUCTURE SHALL HAVE A MINIMUM AREA OF 185 SF BELOW THE DESIGN HIGH WATER ELEVATION OF 1241.47 FT AT THE UPSTREAM FASCIA OF THE STRUCTURE. THIS AREA SHALL BE MEASURED PERPENDICULAR TO THE FLOW. THE MINIMUM CLEAR SPAN SHALL BE 32 FT PERPENDICULAR TO FLOW; A CLEAR SPAN EXCEEDING THIS BY MORE THAN 10% SHALL REQUIRE THE CONCURRENCE OF THE ENGINEER.

PLAN



ELEVATION A-A

LEGEND

- SOIL BORING OR CONE PENETRATION TEST
- UTILITY POLE
- SURVEY BASELINE
- BRUSH/TREE LINE
- HB — HIGHWAY BOUNDARY
- PE — PERMANENT EASEMENT
- OE — OVERHEAD ELECTRIC
- OT — OVERHEAD TELEPHONE
- OCTV — OVERHEAD CABLE
- W — UNDERGROUND WATER
- SAF — UNDERGROUND SEWER
- FEE — FEE ACQUISITION
- TE — TEMPORARY EASEMENT
- PE — PERMANENT EASEMENT
- SAF — PROPOSED UNDERGROUND SEWER
- W — PROPOSED UNDERGROUND WATER
- ST — SEWER, STORM
- GUIDE RAIL

0 40 80
SCALE IN FEET

AFFIX SEAL: DANIEL T. CLARK
ON: 8/20/2019

ALTERED BY:
ON:

STATE OF NEW YORK · DANIEL T. CLARK · LICENSED PROFESSIONAL ENGINEER · 095433

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION
COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33
BRIDGES 3322810
CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

GENERAL PLAN & ELEVATION

DRAWING NO. ST-1
SHEET NO. 30

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

DESIGN SUPERVISOR J. HOFMANN
JOB MANAGER S. MILLER/J. HOFMANN
DRAFTING D. CLARK
DESIGN D. CLARK
CHECK S. MILLER/ T. BUTLER/ K. ALBERTS
PROJECT MANAGER T. BUTLER

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GENERAL NOTES

DESIGN SPECIFICATIONS: NYSDOT LRFD BRIDGE DESIGN SPECIFICATIONS WITH ALL PROVISIONS IN EFFECT AS OF JULY 2019 (FOR DESIGN PURPOSES, COMPRESSIVE STRENGTH OF CONCRETE FOR SUBSTRUCTURES AND DECK SLABS AT 28 DAYS: f'c = 3000 psi.)

LIVE LOAD: AASHTO HL - 93 AND NYSDOT DESIGN PERMIT VEHICLE.

CONSTRUCTION AND MATERIALS SPECIFICATIONS: STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, OFFICE OF ENGINEERING.

DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS FOR WHICH NO SCALE IS SHOWN ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.

ALL SHOP DRAWINGS SUBMITTED FOR THIS PROJECT SHALL BE IN US CUSTOMARY UNITS.

THE COST OF ALL JOINT MATERIAL SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS ITEMS OF THE CONTRACT, UNLESS OTHERWISE SPECIFIED ON THE PLANS.

DIMENSIONS FOR THICKNESSES OF STEEL ROLLED ANGLE SHAPES AND STRUCTURAL TUBING ARE SHOWN ACCORDING TO THE AISC MANUAL.

THIS BRIDGE SHALL BE MAINTAINED IN ACCORDANCE WITH THE GUIDELINES CONTAINED IN THE CURRENT EDITION OF THE AASHTO MAINTENANCE MANUAL FOR ROADWAYS AND BRIDGES.

FOUNDATION NOTES

ALL PLACEMENTS OF SELECT STRUCTURE FILL, ITEM 203.21, SHALL BE COMPACTED TO 95 PERCENT OF STANDARD PROCTOR MAXIMUM DENSITY.

HIGHWAY EMBANKMENT MATERIAL (FROM HIGHWAY ESTIMATE OR FROM STRUCTURE EXCAVATION BACKFILL) AND SELECT STRUCTURE FILL, ITEM 203.21, SHALL BE PLACED SIMULTANEOUSLY, IN CONTACT, ON BOTH SIDES OF THE VERTICAL PAYMENT LINE.

THE COST OF WATER USED FOR COMPACTION OF SELECT FILL ITEMS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203.21 – SELECT STRUCTURE FILL.

COFFERDAM NOTES

SHOULD THE CONTRACTOR ELECT TO LAY BACK A PORTION OF THE EXISTING EARTH ADJACENT TO AN EXCAVATION REQUIRING A COFFERDAM, ANY REQUIRED EXTENSIONS OF THE COFFERDAM NECESSARY TO KEEP WATER FROM ENTERING THE EXCAVATION SHALL BE FURNISHED AND PLACED AT NO COST TO THE COUNTY.

WHERE A COFFERDAM IS USED, THE COST OF DEWATERING THE ENTIRE EXCAVATION, REGARDLESS OF SOURCE OF WATER, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE COFFERDAM ITEM.

SHOULD FIELD CONDITIONS REQUIRE A CHANGE FROM THE TYPE OF COFFERDAM SYSTEM CALLED FOR ON THE PLANS, THE ENGINEER-IN-CHARGE SHALL CONTACT THE ENGINEER FOR COORDINATION WITH APPROPRIATE AGENCIES TO APPROVE THE CHANGE.

IF MULTIPLE COFFERDAMS ARE REPLACED BY A SINGLE SYSTEM, AS PERMITTED BY THE ENGINEER, PAYMENT SHALL BE BASED ON ALL OF THE APPLICABLE COFFERDAM ITEMS INDICATED ON THE PLANS.

DEWATERING OF THE COFFERDAM SHALL BE ACCOMPLISHED BY PUMPING THE WATER TO AN APPROVED UPLAND VEGETATED AREA OUTSIDE OF THE STREAMBED AS SHOWN ON THE PLANS AND/OR APPROVED BY THE E.I.C. TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL, SUCH AS STRAW BALES OR APPROVED EQUAL, MAY BE REQUIRED AS DETERMINED BY THE ENGINEER-IN-CHARGE. NO SETTLEMENT BASIN SHALL BE CONSTRUCTED.

ORDINARY HIGH WATER IS ESTIMATED TO BE 1238.07 AT THE BRIDGE. THIS IS DEFINED AS THE WATER SURFACE ELEVATION FOR THE MEAN ANNUAL FLOOD, WHICH IS THE FLOOD THAT HAS A RECURRENCE INTERVAL OF 2.33 YEARS.

ORDINARY WATER IS ESTIMATED TO BE 1237.50 AT THE BRIDGE. THIS IS DEFINED AS THE HIGHEST SURFACE WATER ELEVATION LIKELY TO BE ENCOUNTERED DURING ONE CONSTRUCTION SEASON (OTHER THAN MAJOR FLOODS). IT IS ALWAYS LESS THAN THE ORDINARY HIGH WATER ELEVATION AND IT IS USUALLY AN OBSERVED ELEVATION RATHER THAN A COMPUTED ONE.

LOW WATER IS ESTIMATED TO BE 1237.23 AT THE BRIDGE. THIS WATER ELEVATION IS THE NORMAL LOW WATER ELEVATION PREVALENT DURING ONE CONSTRUCTION SEASON FOR MORE THAN 25% OF THE TIME. IT IS AN OBSERVED ELEVATION RATHER THAN A COMPUTED ONE.

REMOVAL NOTES

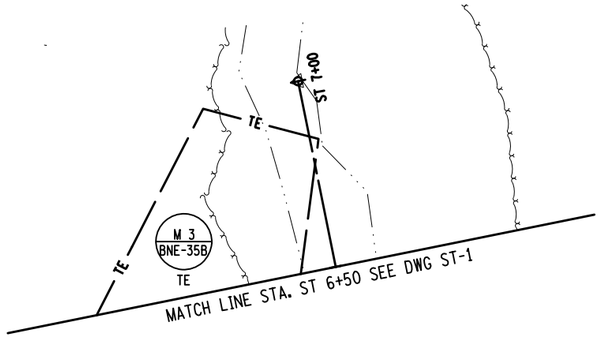
EXISTING BRIDGE SHALL BE REMOVED WITHIN THE LIMITS SHOWN ON THE PLANS UNDER ITEM 202.19 IN THE BRIDGE ESTIMATE.

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE REQUIREMENTS OF SUBSECTION 202-3.01 GENERAL AND SAFETY REQUIREMENTS. A REMOVAL PLAN, SIGNED BY A LICENSED AND REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK, SHALL BE SUBMITTED TO THE ENGINEER THIRTY (30) DAYS PRIOR TO BEGINNING THE DEMOLITION.

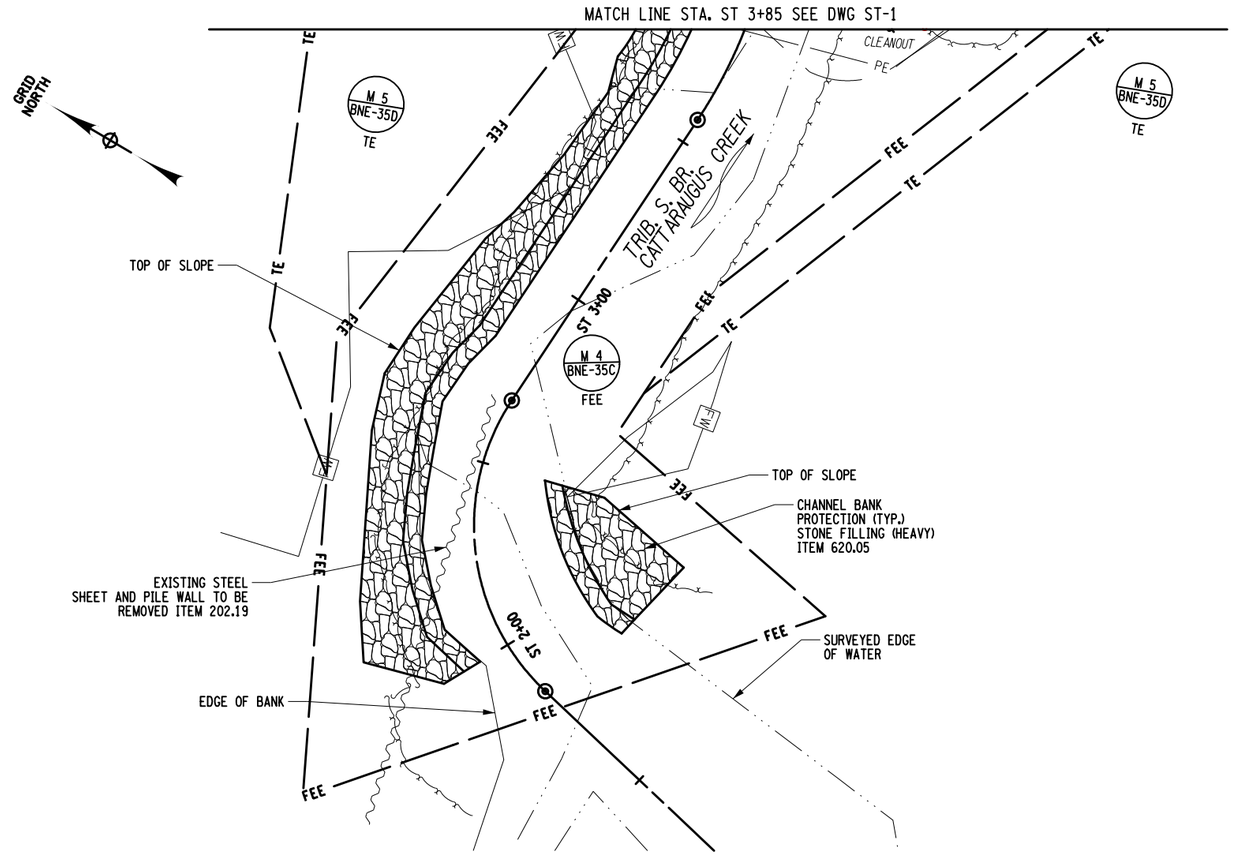
RECORD PLANS FOR THIS STRUCTURE ARE NOT AVAILABLE.

REFER TO SUBSECTION 107-05 OF THE STANDARD SPECIFICATIONS FOR SAFETY AND HEALTH REQUIREMENTS.

INDEX OF DRAWINGS



DOWNSTREAM PLAN



UPSTREAM PLAN

NOTES:

1. TREES AND STUMPS NOT SHOWN FOR CLARITY. SEE DWG. NO. GNP-1 AND GNP-2 FOR TREE LOCATIONS AND REMOVALS
2. FOR LEGEND SEE DWG. NO. ST-1

0 40 80
SCALE IN FEET

AFFIX SEAL: DANIEL T. CLARK ON: 8/20/2019	ALTERED BY: ON:

STATE OF NEW YORK · DANIEL T. CLARK · LICENSED PROFESSIONAL ENGINEER · 095433

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION
COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33
BRIDGES 3322810
CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

GENERAL NOTES AND UPSTREAM PLAN

DRAWING NO. ST-2
SHEET NO. 31

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

DESIGN SUPERVISOR J. HOFMANN | JOB MANAGER S. MILLER/J. HOFMANN | DESIGN D. CLARK | CHECK K. ALBERTS | S. MILLER/
DRAFTING D. CLARK | CHECK T. BUTLER | S. MILLER/
PROJECT MANAGER T. BUTLER

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CHECK T. BUTLER
DRAFTING D. CLARK
CHECK K. ALBERTS
DESIGN D. CLARK
JOB MANAGER S. MILLER/J. HOFMANN
DESIGN SUPERVISOR J. HOFMANN
S. MILLER /
S. MILLER/

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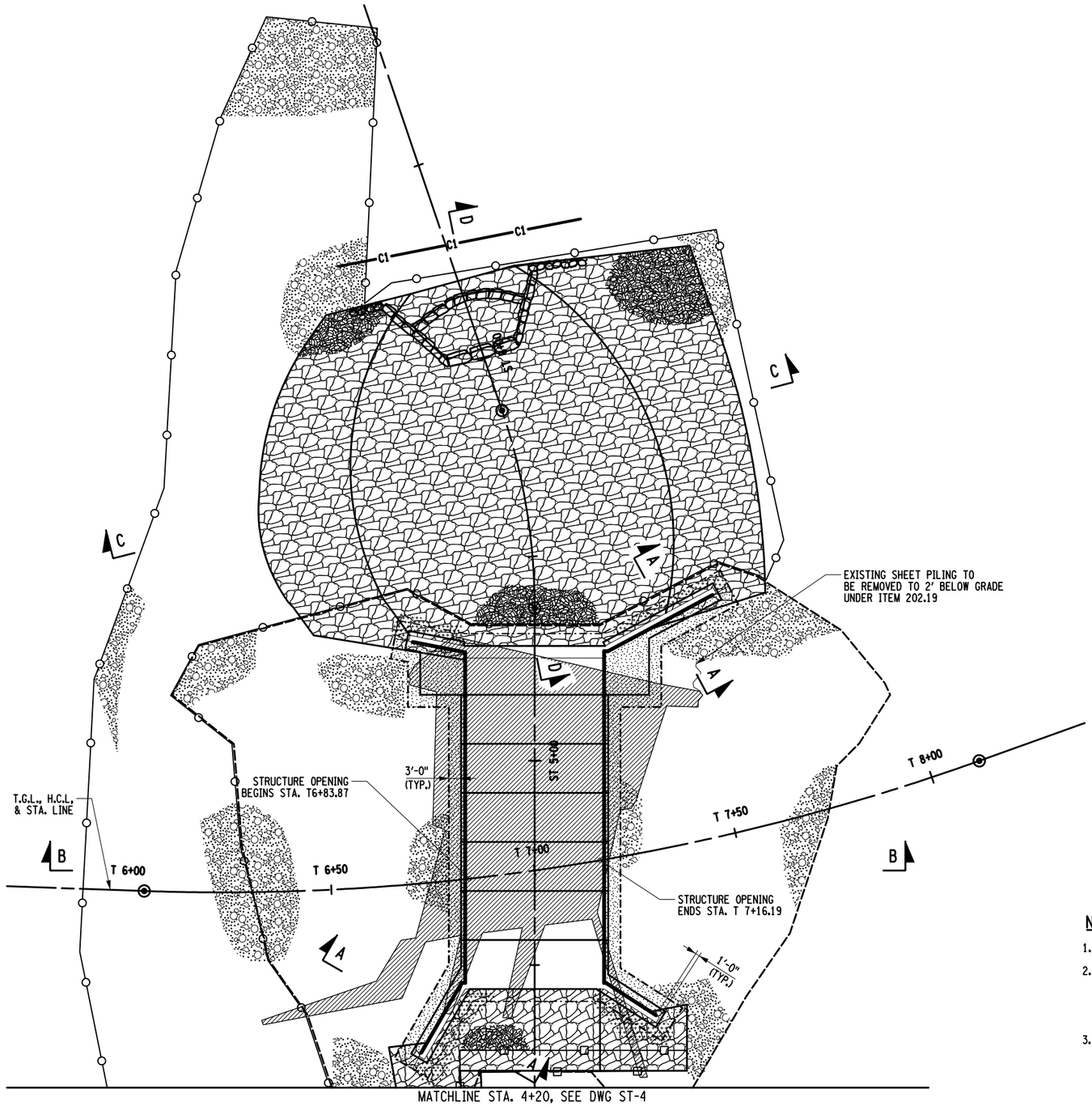
LEGEND

- SELECT STRUCTURE FILL (ITEM 203.21), COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY
- HIGHWAY EMBANKMENT MATERIAL, ITEM 203.03
- BACKFILL WITH SUITABLE EXCAVATED MATERIAL AS PROVIDED FOR UNDER ITEM 206.01, STRUCTURE EXCAVATION.
- STONE FILLING (HEAVY), ITEM 620.05
- BEDDING MATERIAL, ITEM 620.08
- REMOVAL OF SUBSTRUCTURES, ITEM 202.19
- CRUSHED MATERIAL MEETING THE REQUIREMENTS OF MATERIAL DESIGNATION 703.0201, 703-0202, OR 703-0204 WITH A PRIMARY SIZE DESIGNATION 2. ITEM 623.12 CRUSHED STONE (IN-PLACE MEASURE)
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR STRUCTURE EXCAVATION, ITEM 206.01
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR UNCLASSIFIED EXCAVATION AND DISPOSAL, ITEM 203.02
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR TRENCH AND CULVERT EXCAVATION, ITEM 206.0201
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR STRUCTURE EXCAVATION, ITEM 623.12 CRUSHED STONE (IN-PLACE MEASURE)
- PREFABRICATED COMPOSITE STRUCTURAL DRAIN, ITEM 207.26
- C1 — DESIGNATES COFFERDAM (TYPE 1), ITEM 553.010001 INLET SIDE, ITEM 553.010002 OUTLET SIDE



PLAN

0 10 20 30

NOTES:

1. EXISTING STRUCTURE TO BE COMPLETELY REMOVED.
2. THE CONTRACTOR SHALL MAINTAIN CREEK FLOW THROUGHOUT THE DURATION OF THE PROJECT. MEANS AND METHODS OF MAINTAINING FLOW SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, COST SHALL BE INCLUDED UNDER ITEMS 553.010001 AND 553.010002 COFFERDAMS (TYPE 1).
3. FOR SECTIONS, SEE DWG. ST-5.

AFFIX SEAL: DANIEL T. CLARK
ON: 8/20/2019

ALTERED BY:
ON:

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION
COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33

BRIDGES 3322810

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

DEMOLITION, EXCAVATION AND EMBANKMENT PLAN

DRAWING NO. ST-3
SHEET NO. 32

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

PROJECT MANAGER T. BUTLER
CHECK T. BUTLER / S. MILLER
DRAFTING D. CLARK
CHECK K. ALBERTS / S. MILLER
DESIGN D. CLARK
JOB MANAGER S. MILLER/J. HOFMANN
DESIGN SUPERVISOR J. HOFMANN

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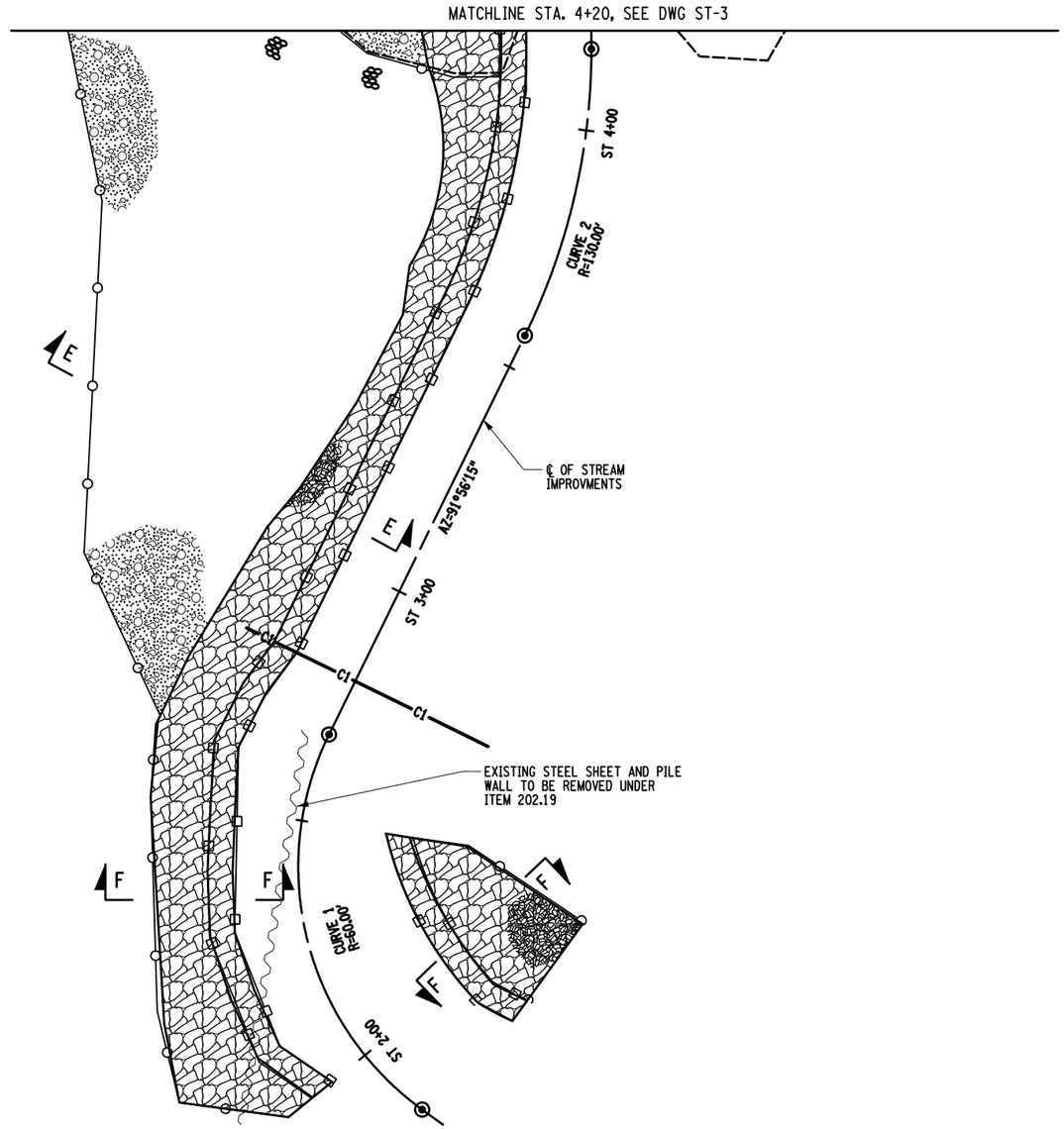
USER = blambert

GRID NORTH

LEGEND

- SELECT STRUCTURE FILL (ITEM 203.21), COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY
- HIGHWAY EMBANKMENT MATERIAL, ITEM 203.03
- BACKFILL WITH SUITABLE EXCAVATED MATERIAL AS PROVIDED FOR UNDER ITEM 206.01, STRUCTURE EXCAVATION.
- STONE FILLING (HEAVY), ITEM 620.05
- BEDDING MATERIAL, ITEM 620.08
- REMOVAL OF SUBSTRUCTURES, ITEM 202.19
- CRUSHED MATERIAL MEETING THE REQUIREMENTS OF MATERIAL DESIGNATION 703.0201, 703-0202, OR 703-0204 WITH A PRIMARY SIZE DESIGNATION 2. ITEM 623.12 CRUSHED STONE (IN-PLACE MEASURE)
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR STRUCTURE EXCAVATION, ITEM 206.01
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR UNCLASSIFIED EXCAVATION AND DISPOSAL, ITEM 203.02
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR TRENCH AND CULVERT EXCAVATION, ITEM 206.0201
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR STRUCTURE EXCAVATION, ITEM 623.12 CRUSHED STONE (IN-PLACE MEASURE)
- PREFABRICATED COMPOSITE STRUCTURAL DRAIN, ITEM 207.26
- C1 — DESIGNATES COFFERDAM (TYPE 1), ITEM 553.010001 INLET SIDE, ITEM 553.010002 OUTLET SIDE



PLAN

NOTES:

1. EXISTING STRUCTURE TO BE COMPLETELY REMOVED.
2. THE CONTRACTOR SHALL MAINTAIN CREEK FLOW THROUGHOUT THE DURATION OF THE PROJECT. MEANS AND METHODS OF MAINTAINING FLOW SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, COST SHALL BE INCLUDED UNDER ITEMS 553.010001 AND 553.010002, COFFERDAMS (TYPE 1).
3. FOR SECTIONS, SEE DWG. ST-6.

0 10 20 30

AFFIX SEAL: DANIEL T. CLARK
ON: 8/20/2019

ALTERED BY:
ON:

STATE OF NEW YORK
DANIEL T. CLARK
LICENSED PROFESSIONAL ENGINEER
095433

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION
COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33

BRIDGES 3322810

CULVERTS

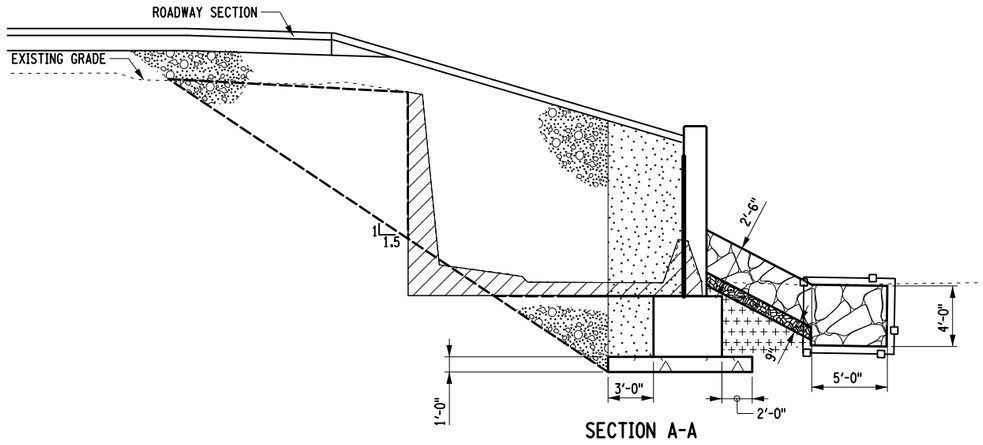
ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

DEMOLITION, EXCAVATION AND EMBANKMENT PLAN

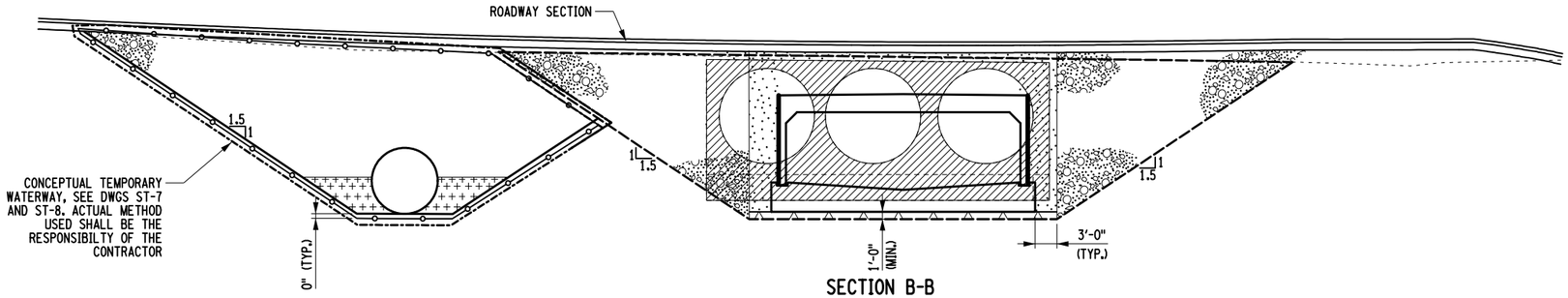
DRAWING NO. ST-4
SHEET NO. 33

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

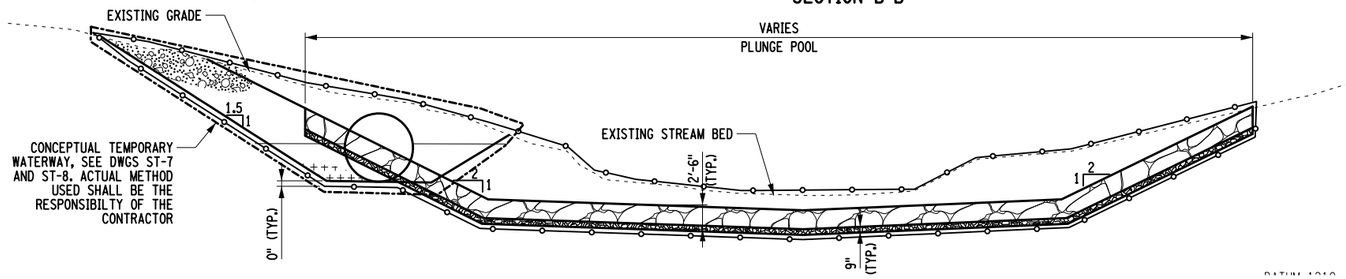
Stantec



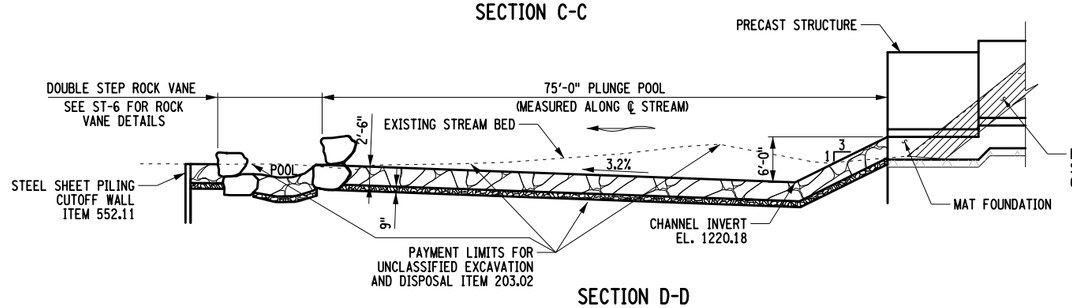
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

LEGEND

- SELECT STRUCTURE FILL (ITEM 203.21), COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY
- HIGHWAY EMBANKMENT MATERIAL, ITEM 203.03
- BACKFILL WITH SUITABLE EXCAVATED MATERIAL AS PROVIDED FOR UNDER ITEM 206.01, STRUCTURE EXCAVATION.
- STONE FILLING (HEAVY), ITEM 620.05
- BEDDING MATERIAL, ITEM 620.08
- REMOVAL OF SUBSTRUCTURES, ITEM 202.19
- CRUSHED MATERIAL MEETING THE REQUIREMENTS OF MATERIAL DESIGNATION 703.0201, 703-0202, OR 703-0204 WITH A PRIMARY SIZE DESIGNATION 2. ITEM 623.12 CRUSHED STONE (IN-PLACE MEASURE)
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR STRUCTURE EXCAVATION, ITEM 206.01
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR UNCLASSIFIED EXCAVATION AND DISPOSAL, ITEM 203.02
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR TRENCH AND CULVERT EXCAVATION, ITEM 206.0201
- PREFABRICATED COMPOSITE STRUCTURAL DRAIN, ITEM 207.26

NOTES:

1. EXISTING STRUCTURE TO BE COMPLETELY REMOVED.

AFFIX SEAL: DANIEL T. CLARK
ON: 8/20/2019

ALTERED BY:
ON:

STATE OF NEW YORK
DANIEL T. CLARK
095433
LICENSED PROFESSIONAL ENGINEER

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION
COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33

BRIDGES 3322810

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

DEMOLITION, EXCAVATION AND EMBANKMENT SECTIONS

DRAWING NO. ST-5
SHEET NO. 34

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

DESIGN SUPERVISOR J. HOFMANN | JOB MANAGER S. MILLER/J. HOFMANN | DESIGN D. CLARK | CHECK K. ALBERTS
DRAFTING D. CLARK | CHECK T. BUTLER | PROJECT MANAGER T. BUTLER
S. MILLER/ T. BUTLER

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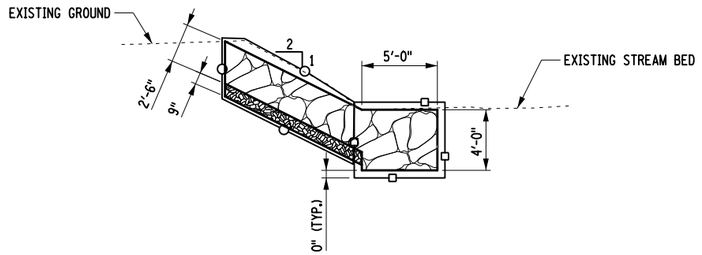
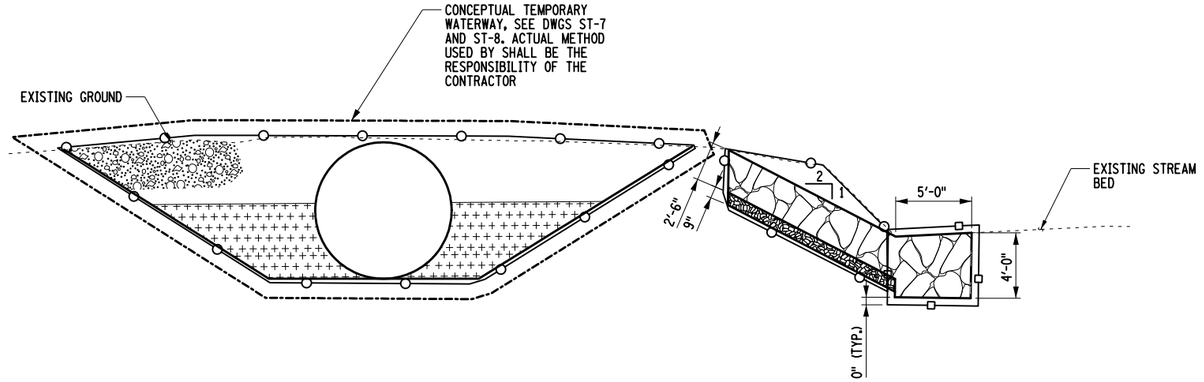


SECTION F-F



SECTION E-E

NOTES:

1. EXISTING STRUCTURE TO BE COMPLETELY REMOVED.

LEGEND

- SELECT STRUCTURE FILL (ITEM 203.21), COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY
- HIGHWAY EMBANKMENT MATERIAL, ITEM 203.03
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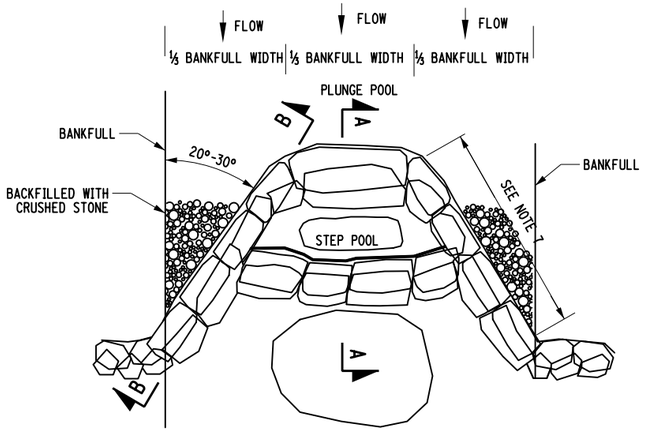
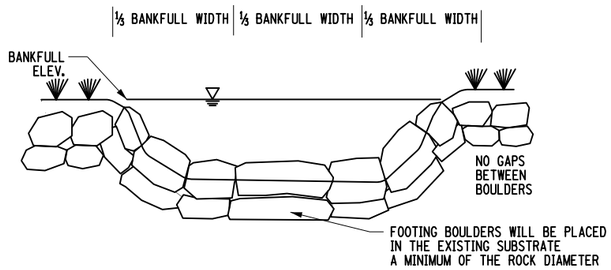
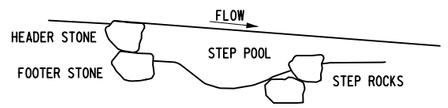


PLAN

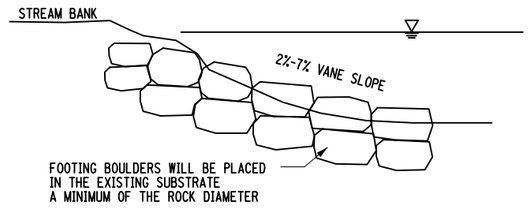


CROSS-SECTION

SLOPE OF VANE FROM CENTERLINE TOP BANKFULL SHALL BE 2%-7%



SECTION A-A



SECTION B-B

DOUBLE STEP CROSS-VANE NOTES:

1. ALL STONES ARE TO BE STRUCTURE STONE.
2. GAPS BETWEEN BOULDERS SHALL BE MINIMIZED BY FITTING BOULDERS TOGETHER, PLUGGING WITH CRUSHED STONE OR CHINKING STONE APPROVED BY ENGINEER AND LINING WITH FILTER FABRIC.
3. DIMENSIONS AND SLOPES MAY BE ADJUSTED BY THE ENGINEER.
4. CONTRACTOR WILL BE REQUIRED TO FIT BOULDERS TIGHTLY.
5. FOOTER BOULDERS AND VANE BOULDERS SHALL BE NATIVE STONE OR SHOT ROCK, CUBICAL OR RECTANGULAR IN NATURE.
6. SLOPE OF VANE FROM CENTERLINE TO THE TOP OF THE VANE ARM SHALL BE 2%-7%.
7. ELEVATION CHANGE SHALL BE SPLIT EVENLY OVER TWO DROPS.
8. THERE SHALL BE NO DROP GREATER THAN 6 INCHES.
9. THE ELEVATION OF EACH GRADE CONTROL STRUCTURE SHOULD BE EQUAL TO OR GREATER THAN THE ELEVATION OF THE TOP OF THE FOOTER ROCKS DIRECTLY UPSTREAM.

DOUBLE STEP CROSS-VANE
N.T.S.

AFFIX SEAL: DANIEL T. CLARK
ON: 8/20/2019

STATE OF NEW YORK · DANIEL T. CLARK · LICENSED PROFESSIONAL ENGINEER · 095433

ALTERED BY:
ON:

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION
COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33
BRIDGES 3322810
CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

DEMOLITION, EXCAVATION AND EMBANKMENT SECTIONS

DRAWING NO. ST-6
SHEET NO. 35

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

DESIGN SUPERVISOR J. HOFMANN
JOB MANAGER S. MILLER/J. HOFMANN
DESIGN D. CLARK
CHECK S. MILLER/ K. ALBERTS
DRAFTING D. CLARK
CHECK T. BUTLER
PROJECT MANAGER T. BUTLER
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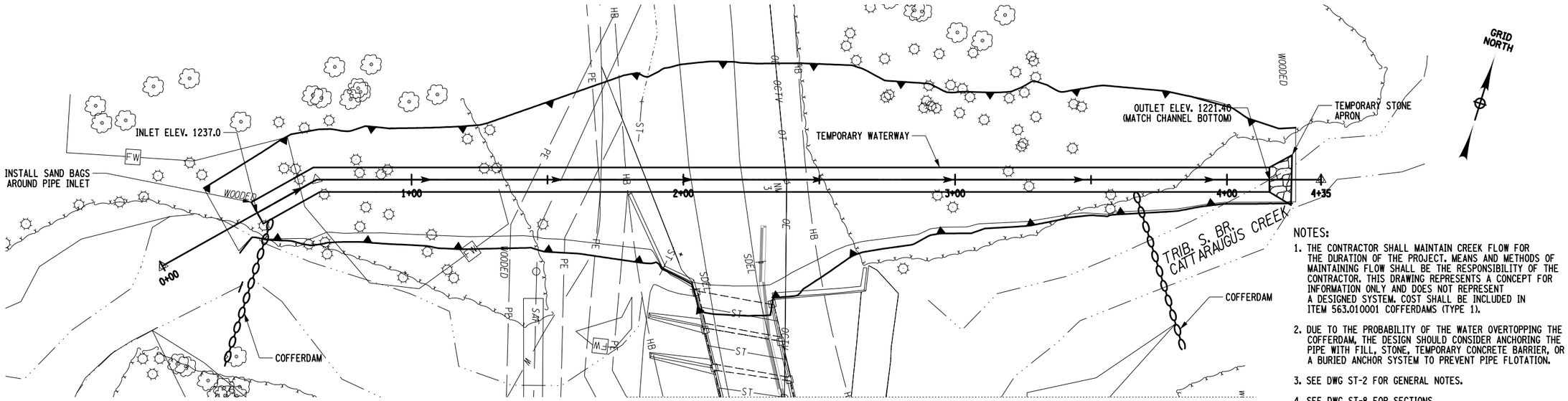
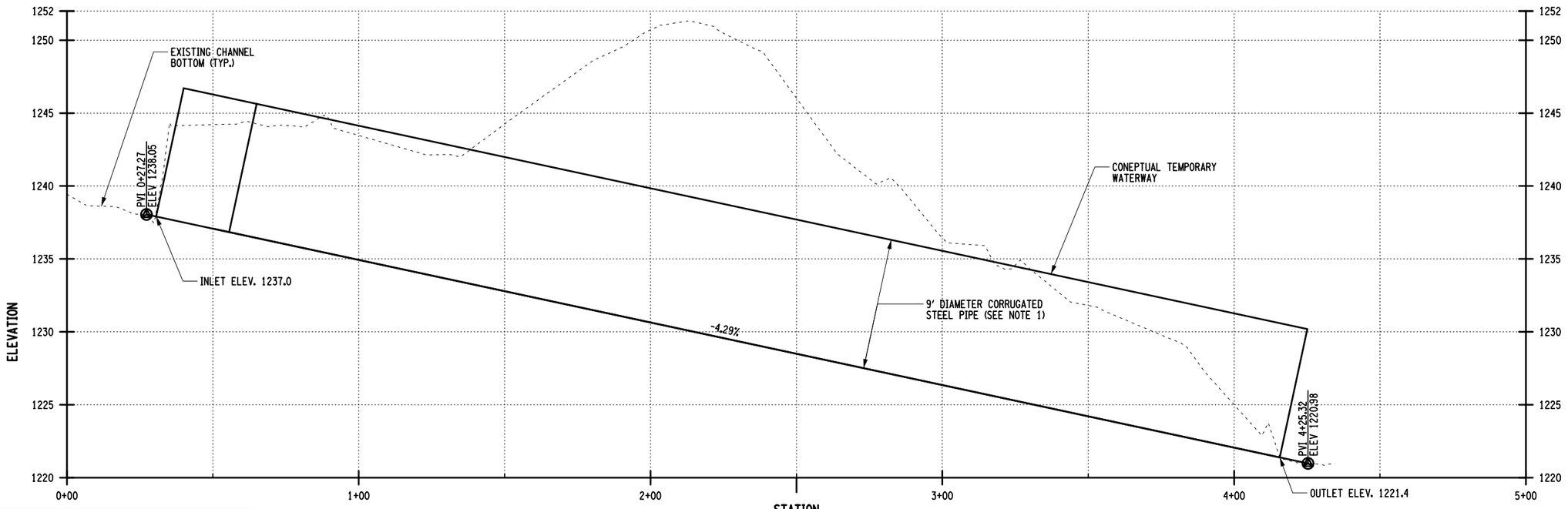


CONCEPTUAL TEMPORARY WATERWAY PLAN

NOTES:

1. THE CONTRACTOR SHALL MAINTAIN CREEK FLOW FOR THE DURATION OF THE PROJECT. MEANS AND METHODS OF MAINTAINING FLOW SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THIS DRAWING REPRESENTS A CONCEPT FOR INFORMATION ONLY AND DOES NOT REPRESENT A DESIGNED SYSTEM. COST SHALL BE INCLUDED IN ITEM 563.010001 COFFERDAMS (TYPE 1).
2. DUE TO THE PROBABILITY OF THE WATER OVERTOPPING THE COFFERDAM, THE DESIGN SHOULD CONSIDER ANCHORING THE PIPE WITH FILL, STONE, TEMPORARY CONCRETE BARRIER, OR A BURIED ANCHOR SYSTEM TO PREVENT PIPE FLOTATION.
3. SEE DWG ST-2 FOR GENERAL NOTES.
4. SEE DWG ST-8 FOR SECTIONS.



CONCEPTUAL TEMPORAY WATERWAY PROFILE

AFFIX SEAL: DANIEL T. CLARK
ON: 8/20/2019

ALTERED BY:
ON:

STATE OF NEW YORK · DANIEL T. CLARK · LICENSED PROFESSIONAL ENGINEER · 095433

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION
COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33

BRIDGES 3322810

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

CONCEPTUAL TEMPORARY WATERWAY PLAN AND PROFILE

DRAWING NO. ST-7
SHEET NO. 36

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

DESIGN SUPERVISOR J. HOFMANN | JOB MANAGER S. MILLER/J. HOFMANN | DESIGN D. CLARK | CHECK K. ALBERTS | DRAFTING D. CLARK | CHECK T. BUTLER | PROJECT MANAGER T. BUTLER | S. MILLER /

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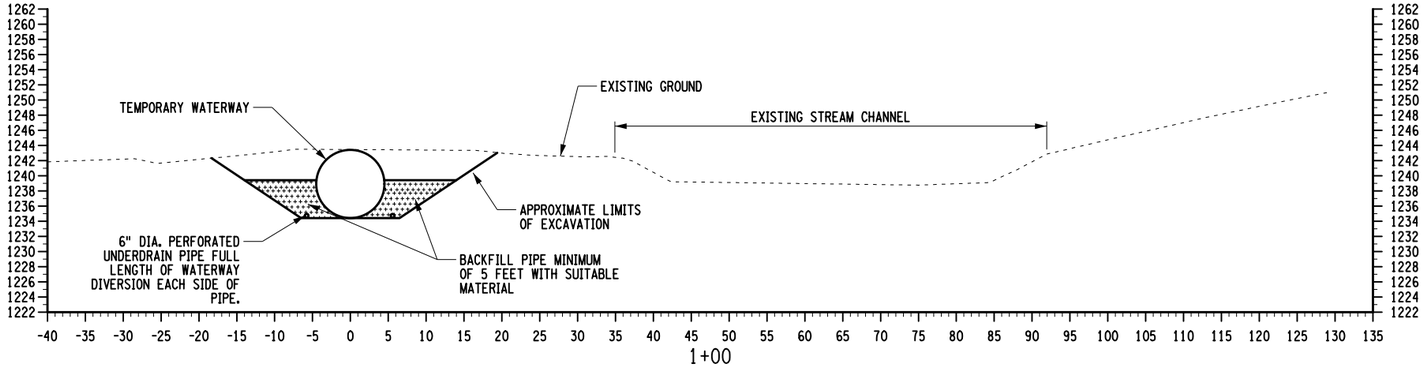
NOTES:

1. DETAILS SHOW CONCEPTUAL TEMPORARY WATERWAY.
2. CONTRACTOR TO DESIGN AND DETAIL PROPOSED TEMPORARY WATERWAY.
3. BACKFILL DEPTH OF WATERWAY PIPE MAY VARY. CONTRACTOR SHALL PROVIDE ENOUGH BACKFILL TO ENSURE STABILITY OF THE PIPE.
4. BACKFILL MATERIAL SHOULD BE DRAINED TO MINIMIZE BUOYANCY OF THE WATERWAY PIPE DUE TO GROUNDWATER.



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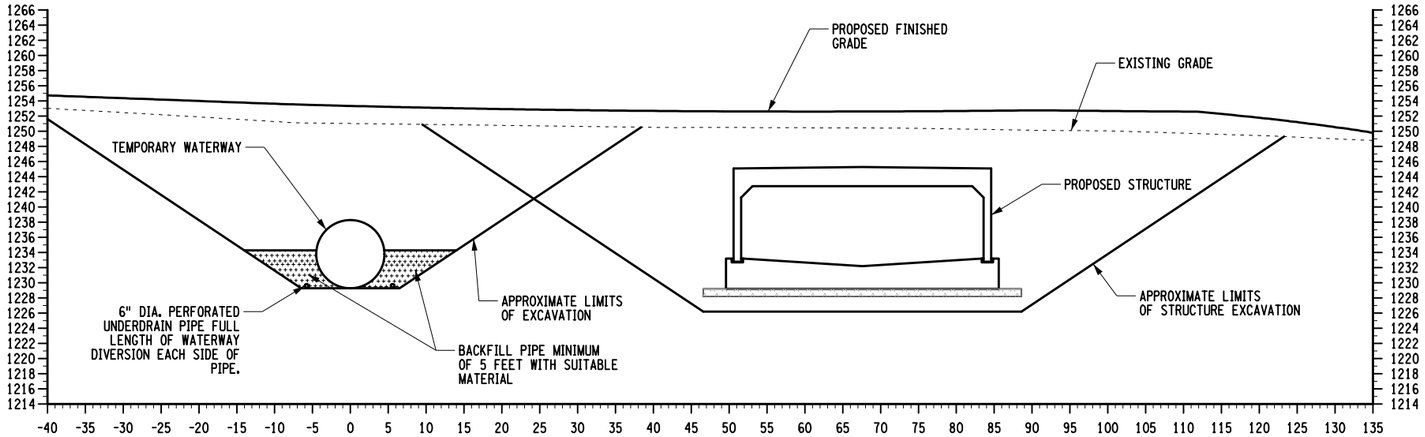
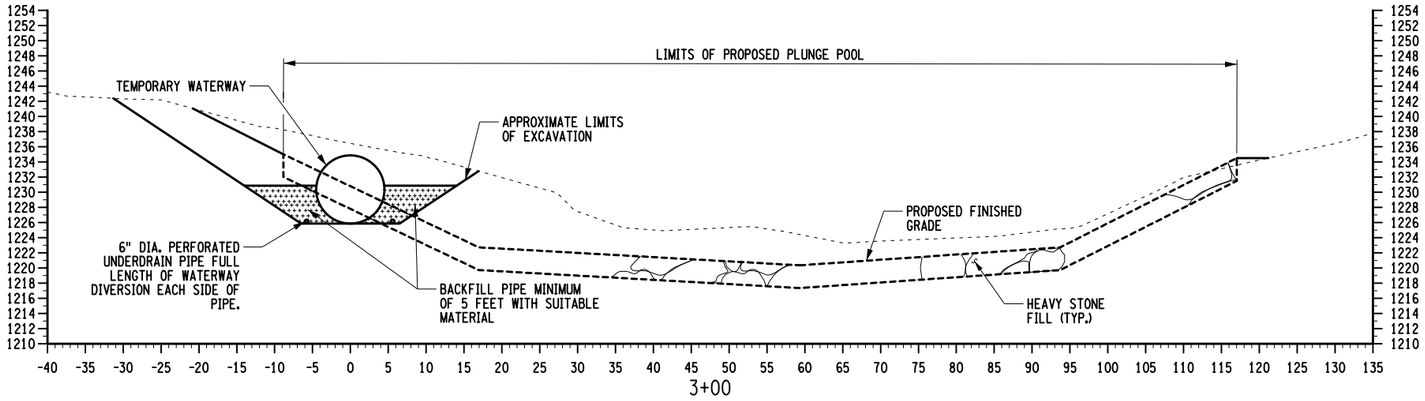


2+20



3+00

PROJECT MANAGER T. BUTLER
CHECK T. BUTLER / S. MILLER
DRAFTING D. CLARK
CHECK K. ALBERTS / S. MILLER
DESIGN D. CLARK
JOB MANAGER S. MILLER/J. HOFMANN
DESIGN SUPERVISOR J. HOFMANN

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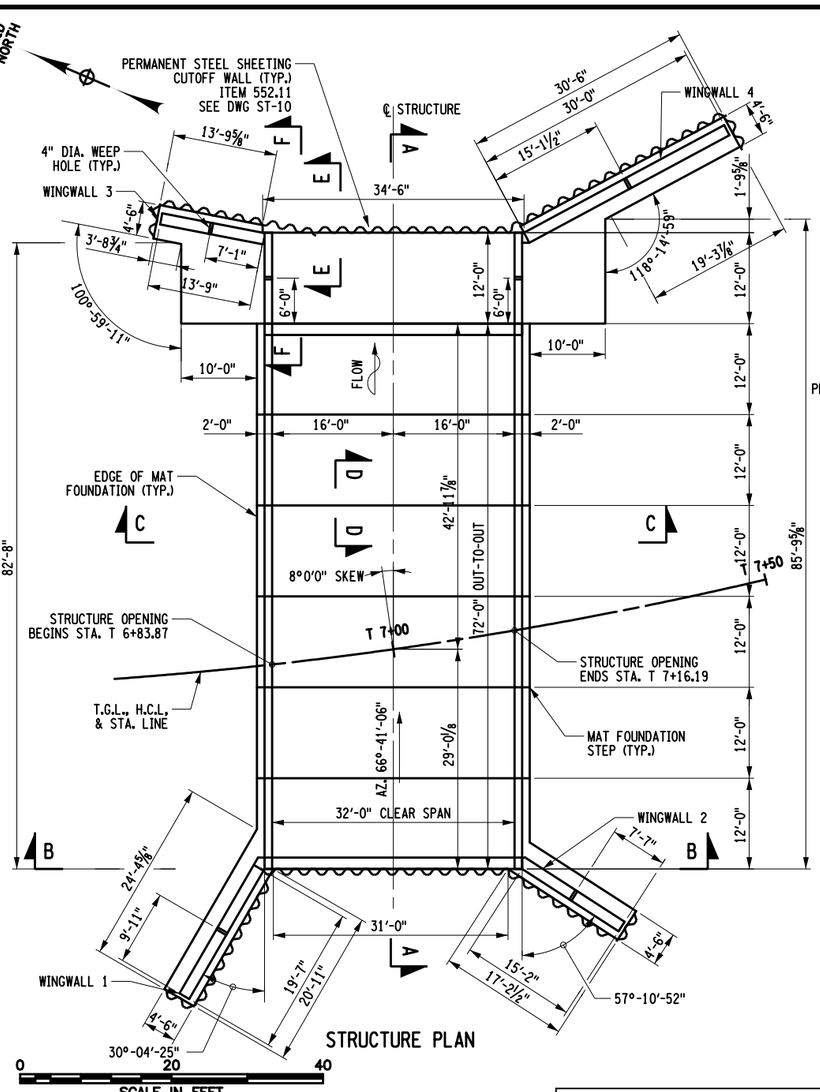
AFFIX SEAL: DANIEL T. CLARK ON: 8/20/2019	ALTERED BY: ON:

STATE OF NEW YORK · DANIEL T. CLARK · 095433 · LICENSED PROFESSIONAL ENGINEER

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION COUNTY: CATTARAUGUS REGION: 5	PIN 5757.33	BRIDGES 3322810	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED CONCEPTUAL TEMPORARY WATERWAY SECTIONS	DRAWING NO. ST-8 SHEET NO. 37

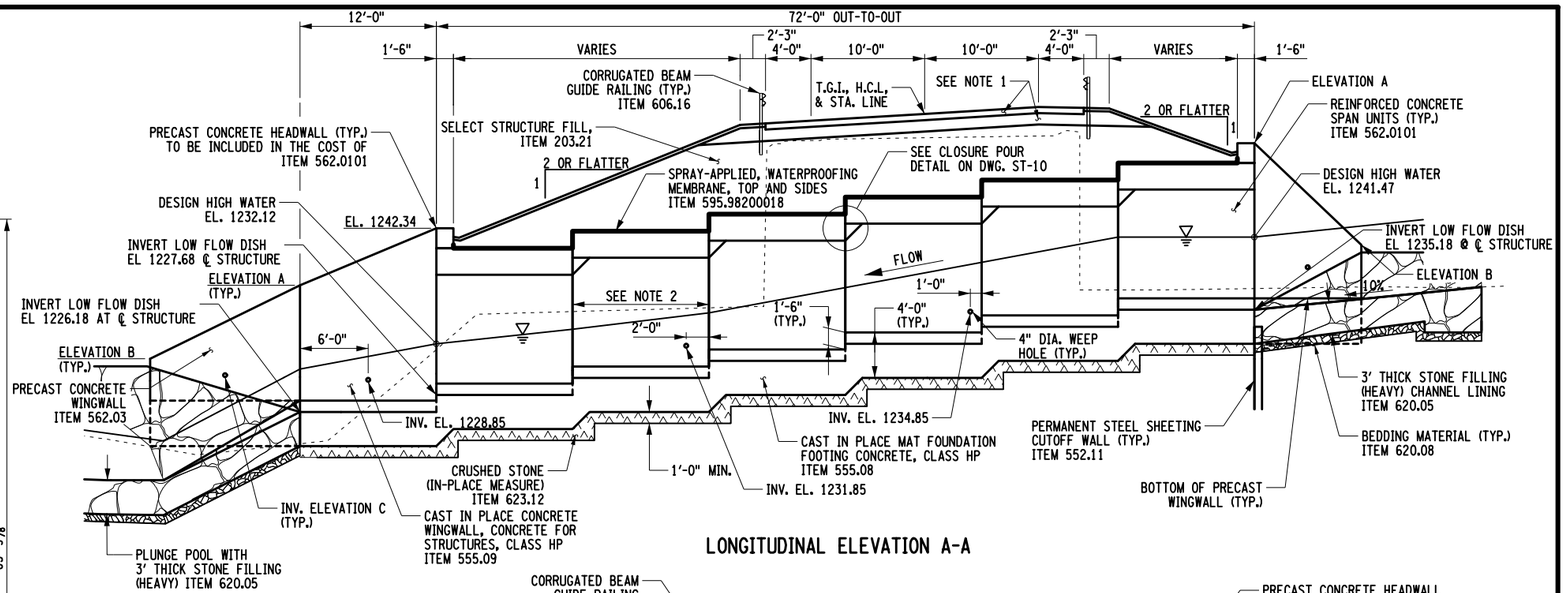
CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec



STRUCTURE PLAN

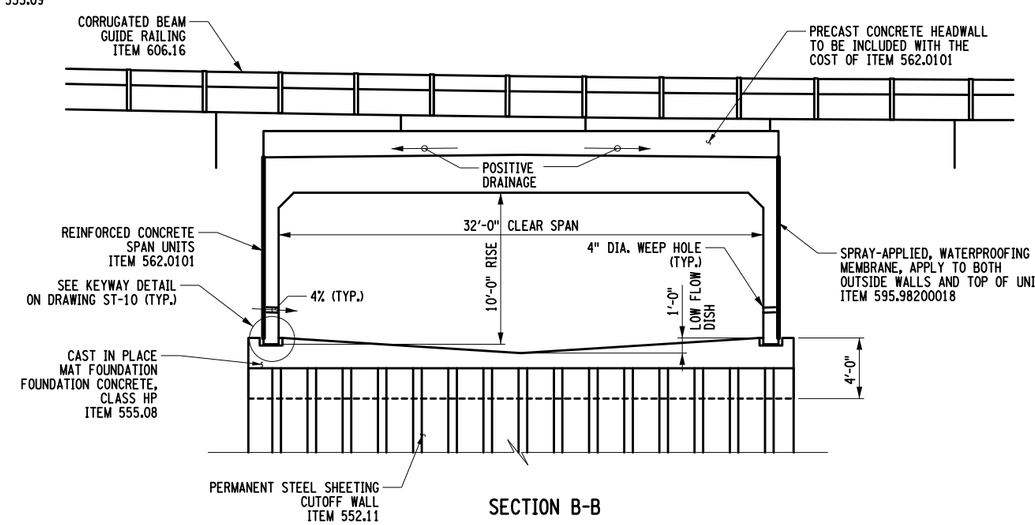
SCALE IN FEET 0 20 40



LONGITUDINAL ELEVATION A-A

THREE SIDED STRUCTURE DESIGN DATA	
CLEAR SPAN, ft.	32'-0"
FRAME RISE, ft.	10'-0"
*MIN. FILL HEIGHT, ft.	11"
*MAX. FILL HEIGHT, ft.	8.36'
(CSKEW) SKEW ANGLE TO ℄ OF ROADWAY, DEG.	8°-00'-00"
LIVE LOAD	HL93 AND NYS PERMIT VEHICLE
RAILING/ BARRIER TEST LOAD	N/A

* BASED ON ASSUMED TOP SLAB THICKNESS OF 2'-5". FABRICATOR SHALL ADJUST BASED ON ACTUAL TOP SLAB THICKNESS. (CONTRACTOR TO REVISE VALUE) MEASURED FROM THE TOP OF THE TOP SLAB TO THE TOP OF THE PAVEMENT.



SECTION B-B

WINGWALL DATA			
LOCATION	ELEVATION A	ELEVATION B	ELEVATION C
WINGWALL 1	1249.84	1241.10	1238.76
WINGWALL 2	1249.84	1241.19	1238.78
WINGWALL 3	1237.34	1230.93	1229.25
WINGWALL 4	1237.34	1230.97	1229.28

ALL ELEVATIONS SHOWN ARE IN FEET.

GEOTECHNICAL FOUNDATION DESIGN DATA						
SHEAR STRENGTH (kip/ft²)	FRICTION ANGLE OF FOUNDATION SOIL (DEGREES)	TOTAL SOIL UNIT WEIGHT (lb/ft³)	MAXIMUM SERVICE LIMIT STATE BEARING RESISTANCE (lb/ft²)	NOMINAL COEFFICIENT OF FRICTION FOR SLIDING	STRENGTH LIMIT STATE RESISTANCE FACTOR FOR SLIDING	STRENGTH LIMIT STATE RESISTANCE FACTOR FOR BEARING
32	0	120	1.5	0.47	0.85	0.5

1. ASSUME A GROUNDWATER ELEVATION OF 1242 FEET AT THE INLET AND 1232 FEET AT THE OUTLET.
2. USE SUBMERGED UNIT WEIGHTS BELOW THE GROUNDWATER ELEVATIONS PROVIDED.
3. FOR BACKFILL PARAMETERS, ASSUME A FRICTION ANGEL OF 32 DEGREES AND A UNIT WEIGHT OF 130 PCF.

LOAD RATING (LFD)		
INVENTORY	HS	TONS
OPERATING	HS	TONS
LRFR RATING FACTORS		
INVENTORY	HL-93	
OPERATING	HL-93	

THE LOAD RATING TABLE SHALL BE FILLED IN BY THE EIC FROM INFORMATION RECEIVED FROM THE CONTRACTOR AFTER REVIEW AND APPROVAL BY THE ENGINEER. THE SUBMITTED LOAD RATING INFORMATION SHALL BE IN ACCORDANCE WITH THE AASHTO "MANUAL FOR BRIDGE EVALUATION" WITH ALL INTERIM PROVISIONS IN EFFECT. THE CONTRACTOR SHALL PROVIDE LOAD RATINGS IN BOTH THE LOAD FACTOR RATING (LFD) AND THE LOAD AND RESISTANCE FACTOR RATING (LRFR) METHOD. THE CONTRACTOR SHALL ALSO PROVIDE ALL LOAD RATING COMPUTATIONS TO THE ENGINEER, STAMPED BY A NEW YORK STATE PROFESSIONAL ENGINEER.

ASSUMED UNFACTORED SPAN UNIT REACTIONS		
VERTICAL kip/ft.	DC	7.6
	DW	0.49
	LL	4.81
	EH	18.44
HORIZONTAL kip/ft.	DC	0.74
	DW	0.06
	LL	0.58
	EH	4.91

LOADS SHALL BE REVISED BY STRUCTURE SUPPLIER AND SENT TO ENGINEER FOR PEDESTAL WALL AND FOOTING VERIFICATION.

NOTES:

1. FOR PAVEMENT AND SUBBASE LIFT THICKNESS AND PAYMENT ITEMS, SEE DWG. TYP-1.
2. THE LENGTH OF EACH STRUCTURE SEGMENT SHALL BE DETERMINED BY THE CONTRACTOR.
3. ACTUAL PRECAST SPAN UNIT WALL AND SLAB THICKNESS, REINFORCEMENT SIZES AND SPACINGS TO BE DETERMINED BY CONTRACTOR.
4. ALL EXPOSED CONCRETE CORNERS SHALL HAVE A 1" CHAMFER.
5. ALL REINFORCEMENT COVER ON PRECAST CONCRETE SPAN UNITS, HEADWALLS, AND WINGWALLS SHALL BE 2". ALL REINFORCEMENT COVER ON CAST-IN-PLACE CONCRETE MAT FOUNDATIONS SHALL BE 3".
6. SEE DWG. ST-10 FOR SECTIONS C-C, D-D, AND E-E.
7. SEE DWG. ST-12 FOR SECTION F-F.

AFFIX SEAL: DANIEL T. CLARK
ON: 8/20/2019

ALTERED BY:
ON:

STATE OF NEW YORK · DANIEL T. CLARK · LICENSED PROFESSIONAL ENGINEER · 095433

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION
COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33
BRIDGES 3322810
CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

STRUCTURE PLAN AND SECTIONS

DRAWING NO. ST-9
SHEET NO. 38

CATTARAUGUS COUNTY DEPARTMENT OF PUBLIC WORKS

Stantec

DESIGN SUPERVISOR J. HOFMANN
JOB MANAGER S. MILLER/J. HOFMANN
DESIGN D. CLARK
CHECK K. ALBERTS
DRAFTING D. CLARK
CHECK T. BUTLER
PROJECT MANAGER T. BUTLER
S. MILLER / T. BUTLER

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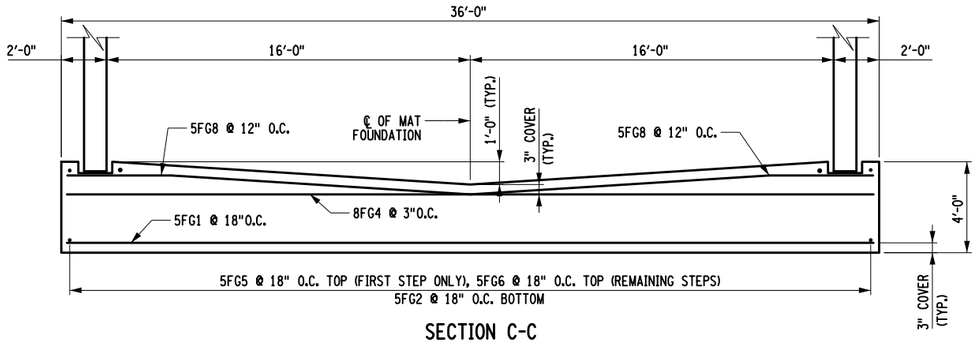
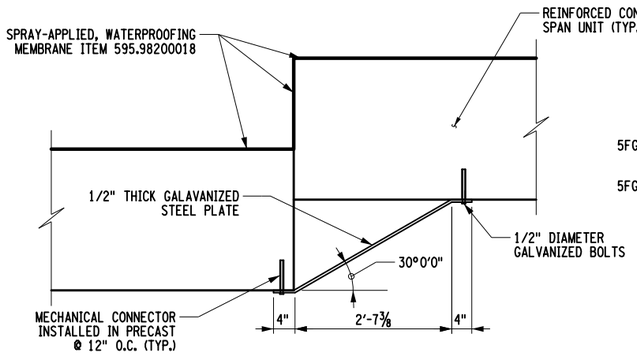
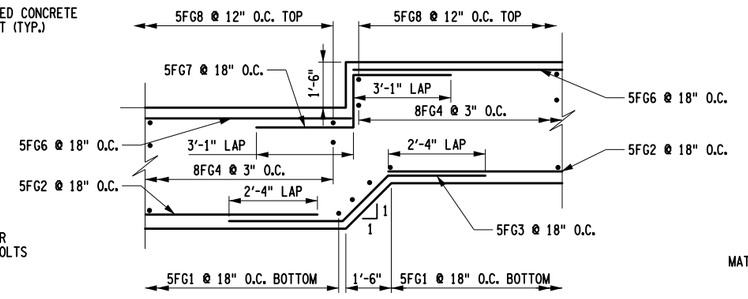


SECTION C-C
N.T.S



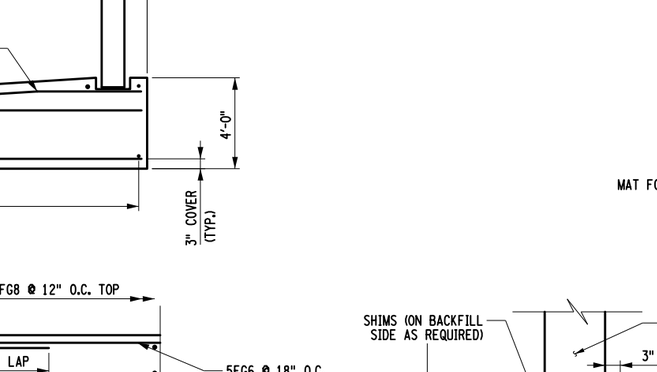
CLOSURE POUR DETAIL
N.T.S



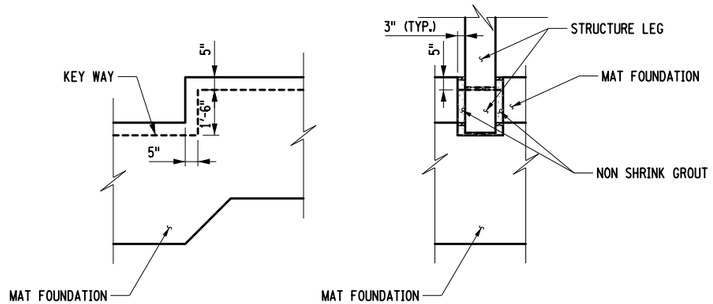
SECTION D-D
N.T.S

SPAN UNIT JOINT DETAIL

NOTE:
ALL DRAW TOGETHER HARDWARE SHALL STAY IN PLACE.



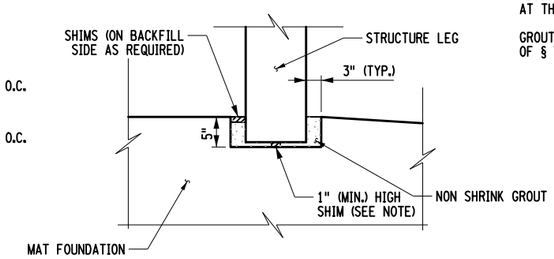
PERMANENT JOINT CONNECTION DETAIL
N.T.S



VERTICAL KEYWAY AT MAT STEPS DETAIL
N.T.S

NOTES:
ADDITIONAL SHIMS ARE ALLOWED AT THE CONTRACTOR'S OPTION

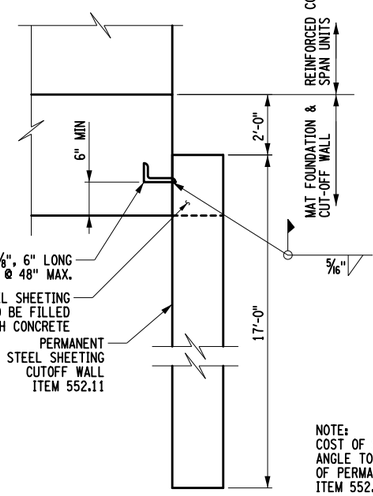
GROUT SHALL MEET THE REQUIREMENTS OF § 701-05 OR § 701-06



KEYWAY DETAIL
N.T.S

NOTES:
ADDITIONAL SHIMS ARE ALLOWED AT THE CONTRACTOR'S OPTION

GROUT SHALL MEET THE REQUIREMENTS OF § 701-05 OR § 701-06



NOTE:
COST OF STEEL SHEETING TIE ANGLE TO BE INCLUDED IN COST OF PERMANENT STEEL SHEETING ITEM 552.11

SECTION E-E
N.T.S

NOTES:

1. ALL EXPOSED CONCRETE CORNERS SHALL HAVE A 1" CHAMFER.
2. ALL REINFORCEMENT COVER ON PRECAST CONCRETE SPAN UNITS, HEADWALLS, AND WINGWALLS SHALL BE 2". ALL REINFORCEMENT COVER ON CAST-IN-PLACE CONCRETE MAT FOUNDATIONS SHALL BE 3".

AFFIX SEAL: DANIEL T. CLARK
ON: 8/20/2019

ALTERED BY:
ON:

STATE OF NEW YORK · DANIEL T. CLARK · LICENSED PROFESSIONAL ENGINEER · 095433

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION
COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33

BRIDGES 3322810

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

MAT FOUNDATION DETAILS AND CONNECTIONS

DRAWING NO. ST-10
SHEET NO. 39

CATTARAUGUS COUNTY DEPARTMENT OF PUBLIC WORKS

Stantec

DESIGN SUPERVISOR J. HOFMANN · JOB MANAGER S. MILLER/J. HOFMANN · DESIGN D. CLARK · DRAFTING D. CLARK · CHECK K. ALBERTS · CHECK S. MILLER / CHECK T. BUTLER · PROJECT MANAGER T. BUTLER

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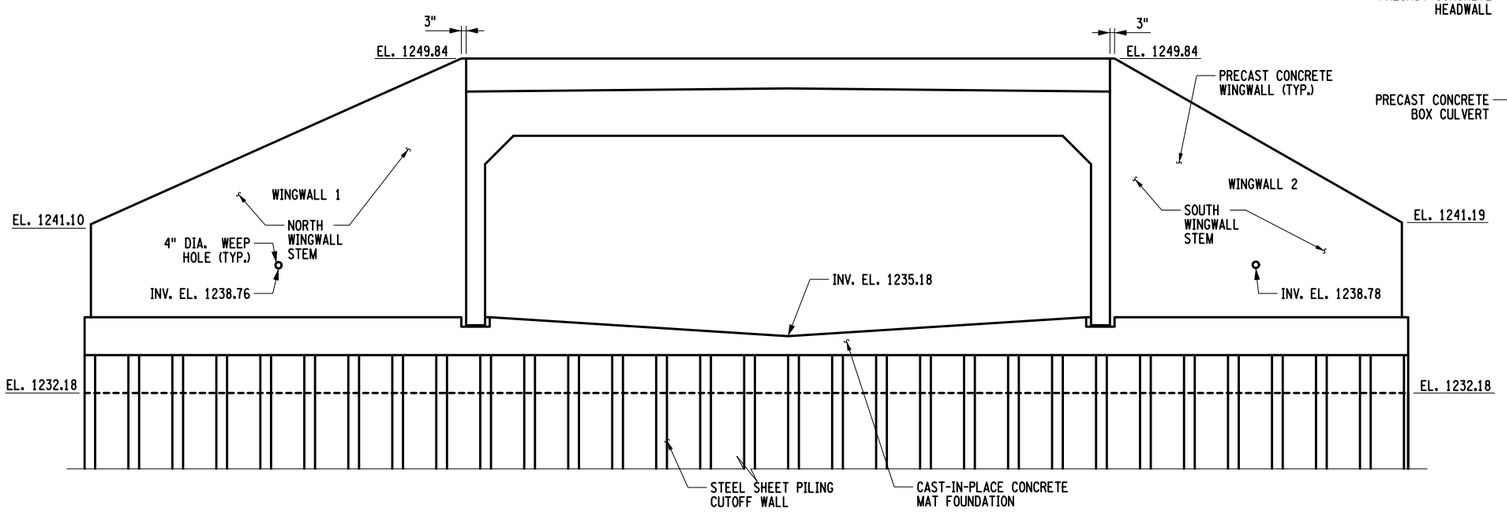
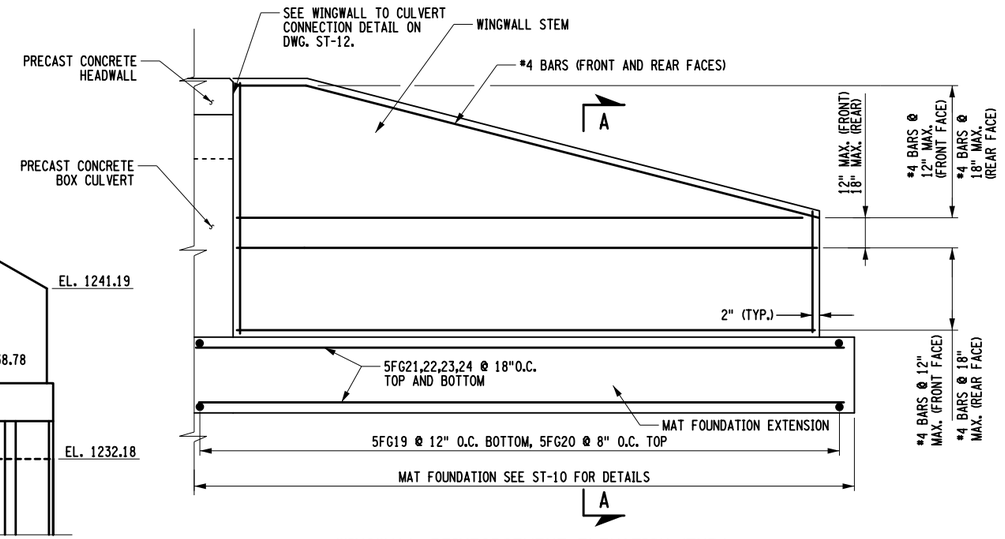
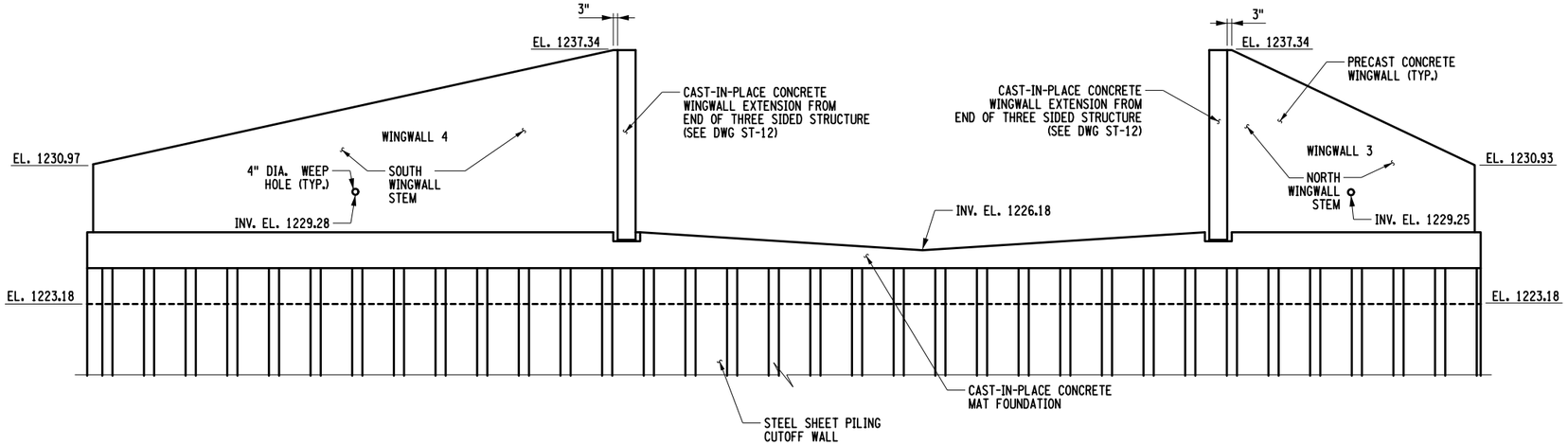


INLET (WEST) END CULVERT ELEVATION

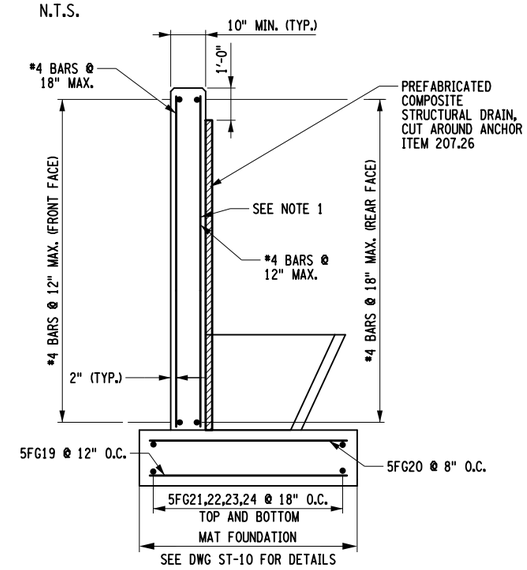


WINGWALL REINFORCEMENT ELEVATION (TYP.)

N.T.S.



OUTLET (EAST) END CULVERT ELEVATION



SECTION A-A
WINGWALL UNIT REINFORCEMENT

N.T.S.

NOTES:

1. ACTUAL PRECAST WALL AND SLAB THICKNESS, REINFORCEMENT SIZES AND SPACINGS TO BE DETERMINED BY FABRICATOR'S ENGINEER.
2. ALL EXPOSED CONCRETE CORNERS SHALL HAVE A 1" CHAMFER.
3. ALL REINFORCEMENT COVER ON REINFORCED CONCRETE SPAN UNITS, CONCRETE HEADWALLS, AND WINGWALLS SHALL BE 2". ALL REINFORCEMENT COVER ON CAST-IN-PLACE CONCRETE FOOTINGS SHALL BE 3".

GEOTECHNICAL NOTES:

1. FOR THE SLIDING AND ECCENTRICITY ANALYSES, ASSUME A GROUNDWATER ELEVATION OF 1242 FEET AT THE INLET AND 1232 FEET AT THE OUTLET.
2. FOR THE BEARING ANALYSES, ASSUME GROUNDWATER ELEVATION OF 1235 AT THE INLET AND 1227 FEET AT THE OUTLET.
3. USE SUBMERGED UNIT WEIGHTS BELOW THE GROUNDWATER ELEVATIONS PROVIDED.
4. ASSUME NO WALL FRICTION.
5. ADDITIONALLY, ANALYZE SLIDING AND BEARING RESISTANCE ASSUMING A COHESIVIE FOUNDATION SOIL WITH A NOMINAL SHEAR STRENGTH OF 1000 PSF, A SOIL FRICTION ANGLE OF 0 DEFREES, AND STRENGTH LIMIT RESISTANCE FACTORS OF 0.85 FOR SLIDING AND 0.5. FOR BEARING. USE THE LOWER OF THE COHESIVE AND COHESIONLESS RESISTANCES.

GEOTECHNICAL DESIGN DATA PRECAST CONCRETE WINGWALLS

FRICTION ANGLE OF SOIL RETAINED BY THE WALL (DEGREES)	FRICTION ANGLE OF FOUNDATION SOIL (DEGREES)	TOTAL SOIL UNIT WEIGHT (lb/ft^3)	MAXIMUM SERVICE LIMIT STATE BEARING RESISTANCE (lb/ft^2)	NOMINAL COEFFICIENT OF FRICTION FOR SLIDING	STRENGTH LIMIT STATE RESISTANCE FACTOR FOR SLIDING	STRENGTH LIMIT STATE RESISTANCE FACTOR FOR BEARING
32	25	120	2.5	0.47	0.9	0.45

AFFIX SEAL: DANIEL T. CLARK
ON: 8/20/2019

ALTERED BY:
ON:

STATE OF NEW YORK · DANIEL T. CLARK · LICENSED PROFESSIONAL ENGINEER · 095433

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION
COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33
BRIDGES 3322810
CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

WINGWALL SECTIONS AND DETAILS

DRAWING NO. ST-11
SHEET NO. 40

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

PROJECT MANAGER T. BUTLER
S. MILLER / CHECK T. BUTLER
DRAFTING D. CLARK
S. MILLER/ CHECK K. ALBERTS
DESIGN D. CLARK
JOB MANAGER S. MILLER/J. HOFMANN
DESIGN SUPERVISOR J. HOFMANN

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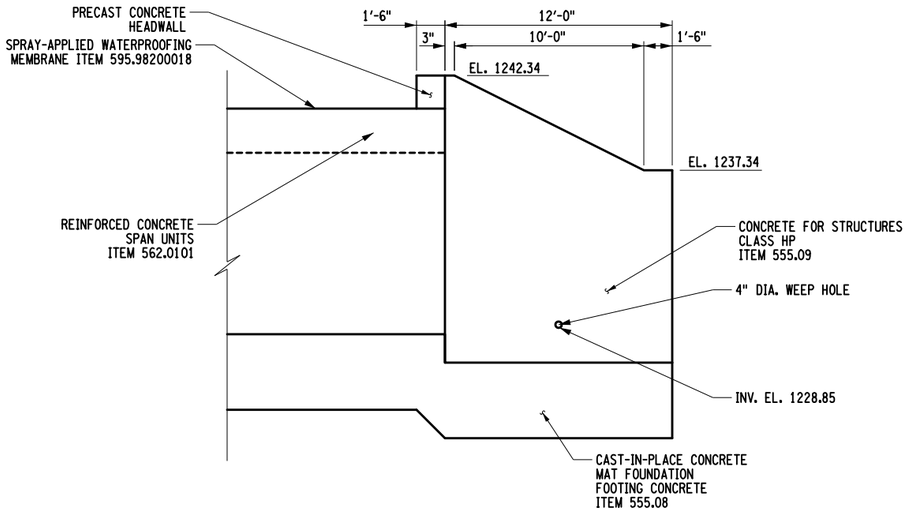
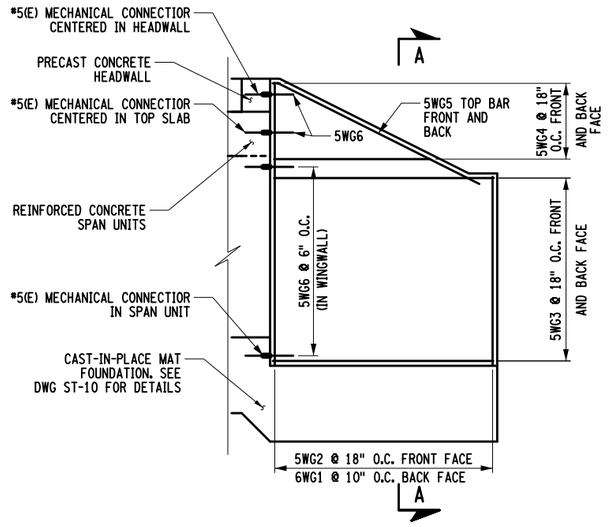


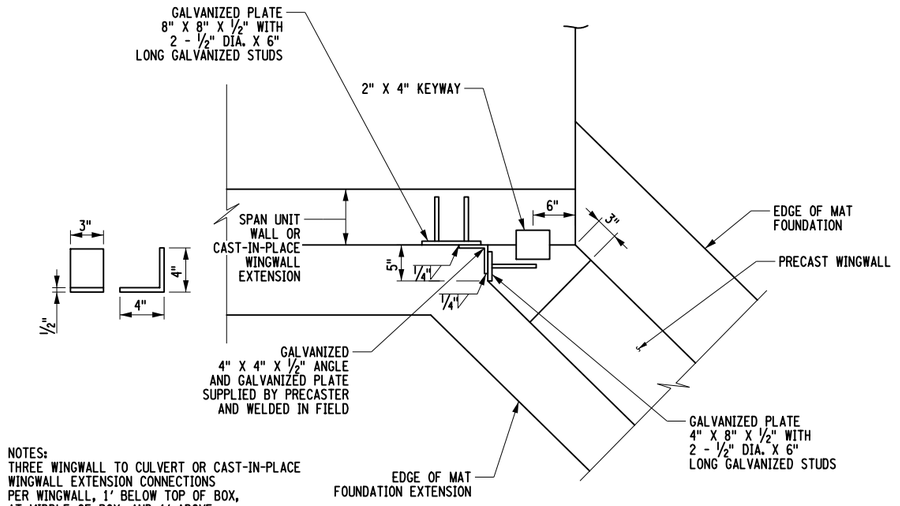
SECTION F-F OUTLET END OF CULVERT



WINGWALL REINFORCEMENT ELEVATION (TYP.)
N.T.S.

NOTES:

1. ALL EXPOSED CONCRETE CORNERS SHALL HAVE A 1" CHAMFER.
2. ALL REINFORCEMENT COVER IN CAST-IN-PLACE WALLS SHALL BE 2". ALL REINFORCEMENT COVER IN CAST-IN-PLACE CONCRETE MAT FOUNDATION SHALL BE 3".



NOTES:
THREE WINGWALL TO CULVERT OR CAST-IN-PLACE WINGWALL EXTENSION CONNECTIONS PER WINGWALL, 1' BELOW TOP OF BOX, AT MIDDLE OF BOX, AND 1' ABOVE BOTTOM OF BOX.

GALVANIZING TO BE FIELD REPAIRED AFTER WELDING.

TYPICAL WINGWALL TO CULVERT CONNECTION DETAIL
N.T.S.

SECTION A-A
WINGWALL REINFORCEMENT
N.T.S.

GEOTECHNICAL DESIGN DATA CAST-IN-PLACE CONCRETE WINGWALLS

FRICTION ANGLE OF SOIL RETAINED BY THE WALL (DEGREES)	FRICTION ANGLE OF FOUNDATION SOIL (DEGREES)	TOTAL SOIL UNIT WEIGHT (lb/ft^3)	MAXIMUM SERVICE LIMIT STATE BEARING RESISTANCE (lb/ft^2)	NOMINAL COEFFICIENT OF FRICTION FOR SLIDING	STRENGTH LIMIT STATE RESISTANCE FACTOR FOR SLIDING	STRENGTH LIMIT STATE RESISTANCE FACTOR FOR BEARING
32	25	120	2.5	0.47	0.8	0.45

AFFIX SEAL: DANIEL T. CLARK
ON: 8/20/2019

STATE OF NEW YORK · DANIEL T. CLARK · LICENSED PROFESSIONAL ENGINEER · 095433

ALTERED BY:
ON:

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION
COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33
BRIDGES 3322810
CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

WINGWALL SECTIONS AND DETAILS

DRAWING NO. ST-12
SHEET NO. 41

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

DESIGN SUPERVISOR J. HOFMANN | JOB MANAGER S. MILLER/J. HOFMANN | DESIGN D. CLARK | DRAFTING D. CLARK | CHECK T. BUTLER | PROJECT MANAGER T. BUTLER | CHECK K. ALBERTS | S. MILLER/

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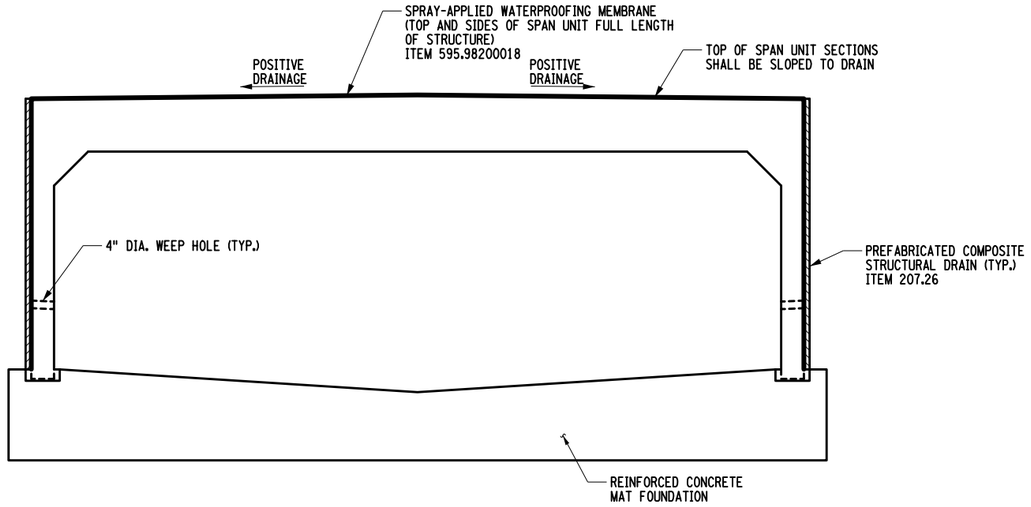
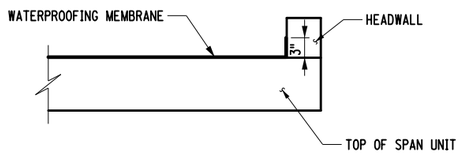
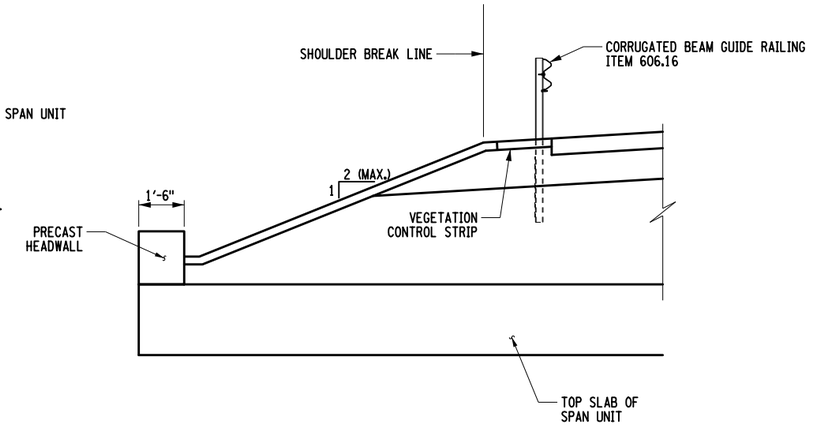


WATERPROOFING MEMBRANE DETAIL
N.T.S

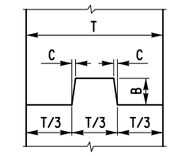


DETAIL "A"
WATERPROOFING MEMBRANE AT HEADWALL
N.T.S

CHAMFER DETAIL
NOT TO SCALE

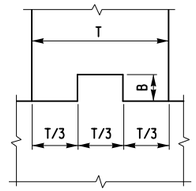


DETAIL "B"
(SETTING OF GUIDE RAIL POSTS)
N.T.S



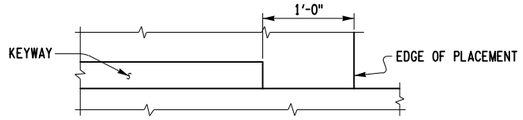
NOTE:
WATERSTOP NOT SHOWN.

VERTICAL



NOTE:
WATERSTOP NOT SHOWN.

HORIZONTAL



KEYWAY DETAILS
(N.T.S.)

CONSTRUCTION AND CONTRACTION JOINTS		
C	B	T/3
3/16"	1½"	0 TO 6"
3/8"	3½"	6" TO 10"
3/4"	5½"	10" AND OVER

EXPANSION JOINTS		
C	B	T/3
3/8"	3½"	0 TO 10"
3/4"	5½"	10" AND OVER

AFFIX SEAL: DANIEL T. CLARK
ON: 8/20/2019

ALTERED BY:
ON:

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION
COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33

BRIDGES 3322810

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

STRUCTURE SECTIONS AND DETAILS

DRAWING NO. ST-13
SHEET NO. 42

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

DESIGN SUPERVISOR J. HOFMANN | JOB MANAGER S. MILLER/J. HOFMANN | DESIGN D. CLARK | CHECK K. ALBERTS | DRAFTING D. CLARK | CHECK T. BUTLER | PROJECT MANAGER T. BUTLER | S. MILLER /

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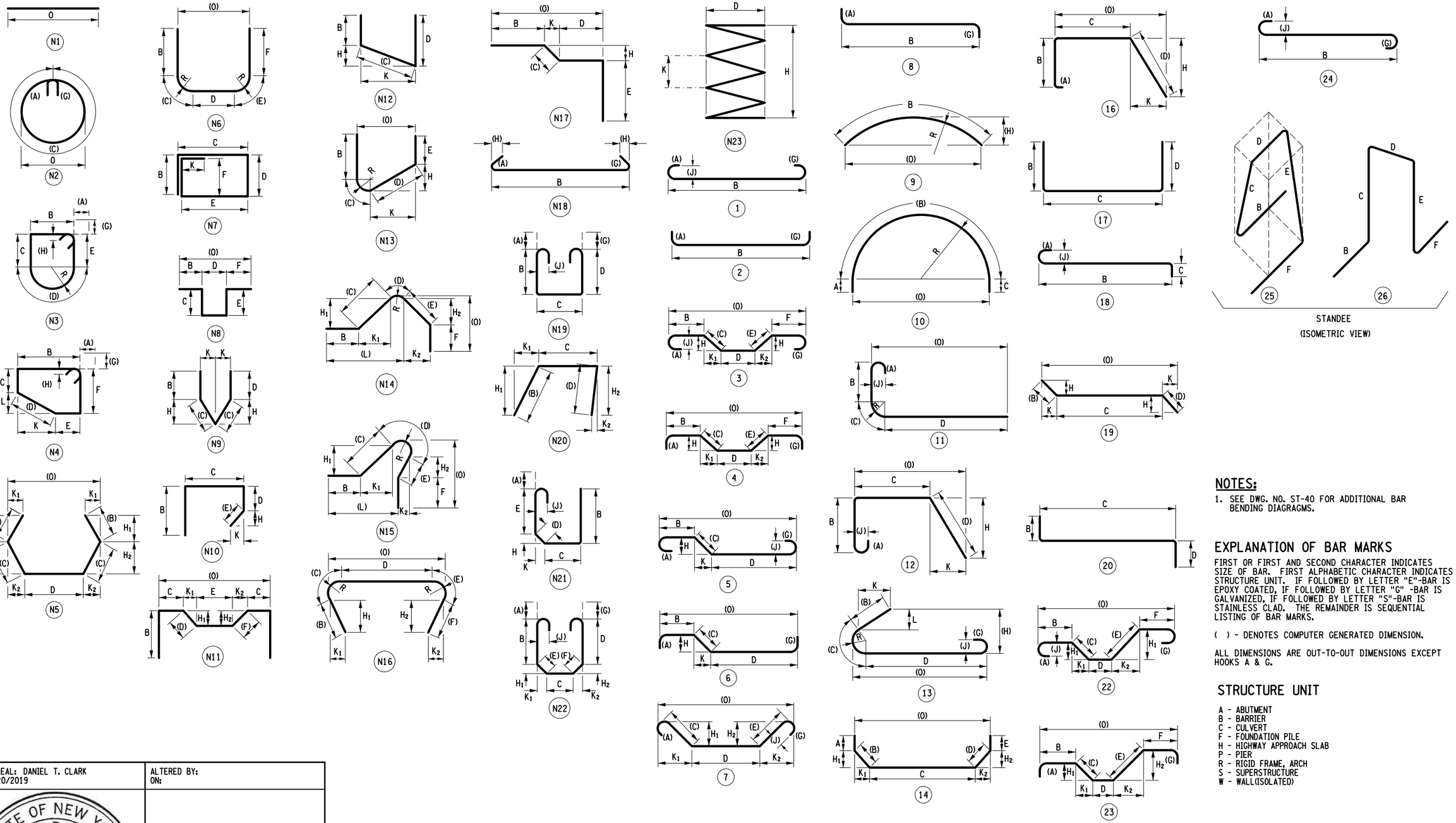

NOTES:

1. SEE DWG. NO. ST-40 FOR ADDITIONAL BAR BENDING DIAGRAGMS.

EXPLANATION OF BAR MARKS

FIRST OR FIRST AND SECOND CHARACTER INDICATES SIZE OF BAR. FIRST ALPHABETIC CHARACTER INDICATES STRUCTURE UNIT. IF FOLLOWED BY LETTER "E"-BAR IS EPOXY COATED, IF FOLLOWED BY LETTER "G" -BAR IS GALVANIZED, IF FOLLOWED BY LETTER "S"-BAR IS STAINLESS CLAD. THE REMAINDER IS SEQUENTIAL LISTING OF BAR MARKS.

( ) - DENOTES COMPUTER GENERATED DIMENSION.

ALL DIMENSIONS ARE OUT-TO-OUT DIMENSIONS EXCEPT HOOKS A & G.

STRUCTURE UNIT

A - ABUTMENT
B - BARRIER
C - CULVERT
F - FOUNDATION PILE
H - HIGHWAY APPROACH SLAB
P - PIER
R - RIGID FRAME, ARCH
S - SUPERSTRUCTURE
W - WALL(ISOLATED)

AFFIX SEAL: DANIEL T. CLARK
ON: 8/20/2019

ALTERED BY:
ON:

STATE OF NEW YORK
DANIEL T. CLARK
095433
LICENSED PROFESSIONAL ENGINEER

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION
COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33

BRIDGES 3322810

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

BAR BENDING DIAGRAMS

DRAWING NO. ST-14
SHEET NO. 43

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

DESIGN SUPERVISOR J. HOFMANN | JOB MANAGER S. MILLER/J. HOFMANN | DESIGN D. CLARK | CHECK K. ALBERTS | DRAFTING D. CLARK | CHECK T. BUTLER | PROJECT MANAGER T. BUTLER | S. MILLER/

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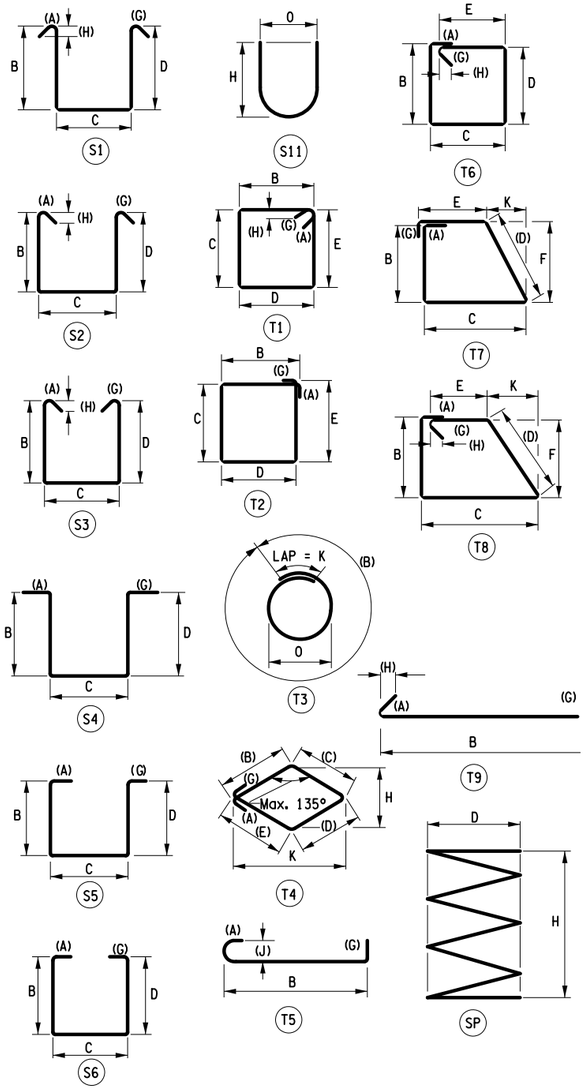

EXPLANATION OF BAR MARKS

FIRST OR FIRST AND SECOND CHARACTER INDICATES SIZE OF BAR. FIRST ALPHABETIC CHARACTER INDICATES STRUCTURE UNIT. IF FOLLOWED BY LETTER "E"-BAR IS EPOXY COATED, IF FOLLOWED BY LETTER "G" -BAR IS GALVANIZED, IF FOLLOWED BY LETTER "S"-BAR IS STAINLESS CLAD. THE REMAINDER IS SEQUENTIAL LISTING OF BAR MARKS.

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STRUCTURE UNIT

A - ABUTMENT
B - BARRIER
C - CULVERT
F - FOUNDATION PILE
H - HIGHWAY APPROACH SLAB
P - PIER
R - RIGID FRAME, ARCH
S - SUPERSTRUCTURE
W - WALL(ISOLATED)

MARK	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H H_1	H_2	J	K K_1	K_2	L	O	R
TANNERY STREET																			
MAT FOUNDATION																			
5FG1	60	35'-6"	N1	2,222														35'-6"	
5FG2	156	11'-8"	N1	1,895														11'-8"	
5FG3	156	6'-10"	N17	1,109		2'-4"	2'-2"	2'-4"	- -			1'-6"			1'-6"			6'-2"	
8FG4	291	35'-6"	N1	27,582														35'-6"	
5FG5	26	11'-6"	N1	312														11'-6"	
5FG6	130	12'-1"	N1	1,638														12'-1"	
5FG7	156	7'-8"	N8	1,252		3'-1"	1'-6"	3'-1"	- -	- -								6'-2"	
5FG8	156	17'-9"	N12	2,889		4'-7"	13'-2"	- -				13'-2"			0'-10"				
8FG9	58	11'-11"	17	1,845		1'-4"	10'-7"	- -											
5FG10	18	6'-10"	17	128		0'-10"	6'-0"	- -											
5FG11	13	55'-6"	N1	753														55'-6"	
5FG12	24	11'-8"	N1	292														11'-8"	
5FG13	14	15'-5"	N1	226														15'-5"	
5FG13		DIMENSION "O" VARIES FROM 18'-2" TO 12'-9"																	
5FG14	34	12'-2"	N1	431														12'-2"	
5FG15	22	15'-5"	N1	354														15'-5"	
5FG15		DIMENSION "O" VARIES FROM 18'-2" TO 12'-9"																	
5FG16	38	10'-3"	N1	405														10'-3"	
5FG17	38	8'-2"	N1	323														8'-2"	
5FG18	38	15'-7"	N1	616														15'-7"	
5FG19	90	4'-0"	N1	375														4'-0"	
5FG20	132	4'-0"	N1	551														4'-0"	
5FG21	8	24'-2"	N1	201														24'-2"	
5FG22	8	17'-0"	N1	142														17'-0"	
5FG23	8	13'-4"	N1	111														13'-4"	
5FG24	8	30'-0"	N1	250														30'-0"	
SUBTOTAL GALVANIZED BARS =				45,902	lb														
SUBTOTAL EPOXY BARS =				0	lb														

AFFIX SEAL: DANIEL T. CLARK
ON: 8/20/2019

ALTERED BY:
ON:

STATE OF NEW YORK · DANIEL T. CLARK · LICENSED PROFESSIONAL ENGINEER · 095433

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION
COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33

BRIDGES 3322810

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

BAR BENDING DIAGRAMS AND BAR LIST

DRAWING NO. ST-15
SHEET NO. 44

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec

PROJECT MANAGER T. BUTLER
CHECK T. BUTLER / S. MILLER
DRAFTING D. CLARK
JOB MANAGER S. MILLER/J. HOFMANN
DESIGN D. CLARK
CHECK K. ALBERTS / S. MILLER
DESIGN SUPERVISOR J. HOFMANN
FILE NAME = U:\9192500172\structural\design\drawing\Planset\ST-15 Bar Bending Diagrams and Bar List.dgn
DATE/TIME = 9/16/2019 2:36:57 PM
USER = blambert

MARK	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H H_1	H_2	J	K K_1	K_2	L	O	R
TANNERY STREET																			
NORTH OUTLET WINGWALL																			
6WG1	15	8'-5"	N1	190														8'-5"	
6WG1		DIMENSION "O" VARIES FROM 10'-11" TO 5'-11"																	
5WG2	9	12'-8"	N1	119														12'-8"	
5WG2		DIMENSION "O" VARIES FROM 15'-2" TO 10'-1"																	
5WG3	16	11'-8"	N1	195														11'-8"	
5WG4	6	4'-6"	N1	28														4'-6"	
5WG4		DIMENSION "0" VARIES FROM 7'-6" TO 1'-6"																	
5WG5	2	12'-1"	N12	25		0'-3"	11'-10"	- -				10'-7"			5'-4"				
5WG6	20	2'-2"	N1	45														2'-2"	
SUBTOTAL GALVANIZED BARS =				602	lb														
SUBTOTAL EPOXY BARS =				0	lb														
SOUTH OUTLET WINGWALL																			
6WG1	15	8'-5"	N1	190														8'-5"	
6WG1		DIMENSION "O" VARIES FROM 10'-11" TO 5'-11"																	
5WG2	9	12'-8"	N1	119														12'-8"	
5WG2		DIMENSION "O" VARIES FROM 15'-2" TO 10'-1"																	
5WG3	16	11'-8"	N1	195														11'-8"	
5WG4	6	4'-6"	N1	28														4'-6"	
5WG4		DIMENSION "0" VARIES FROM 7'-6" TO 1'-6"																	
5WG5	2	12'-1"	N12	25		0'-3"	11'-10"	- -				10'-7"			5'-4"				
5WG6	20	2'-2"	N1	45														2'-2"	
SUBTOTAL GALVANIZED BARS =				602	lb														
SUBTOTAL EPOXY BARS =				0	lb														
TOTAL GALVANIZED BARS =							47,106	lb											
TOTAL EPOXY BARS =							0	lb											

PROJECT MANAGER T. BUTLER
S. MILLER / CHECK T. BUTLER
DRAFTING D. CLARK
S. MILLER/ CHECK K. ALBERTS
DESIGN SUPERVISOR J. HOFMANN
JOB MANAGER S. MILLER/J. HOFMANN
DESIGN D. CLARK
CHECK

FILE NAME = U:\d192500172\structural\design\drawing\Planset\ST-16 Bar List.dgn
DATE/TIME = 9/16/2019 2:37:02 PM
USER = blambert

AFFIX SEAL: DANIEL T. CLARK
ON: 8/20/2019

ALTERED BY:
ON:

STATE OF NEW YORK
DANIEL T. CLARK
095433
LICENSED PROFESSIONAL ENGINEER

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

TANNERY STREET OVER TRIB. S. BR. CATTARAUGUS CREEK
VILLAGE OF CATTARAUGUS AND TOWN OF NEW ALBION
COUNTY: CATTARAUGUS REGION: 5

PIN 5757.33

BRIDGES 3322810

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

BAR LIST

DRAWING NO. ST-16
SHEET NO. 45

CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

Stantec