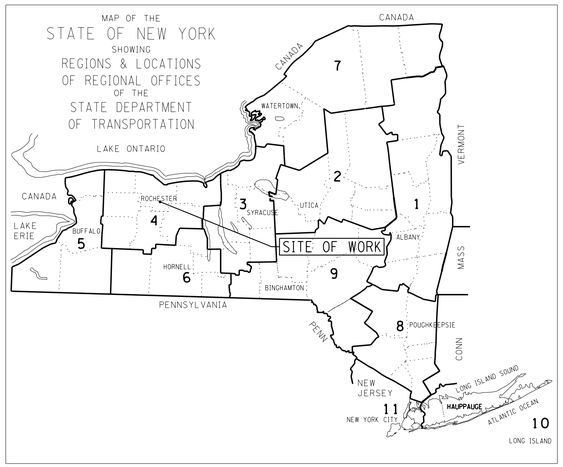
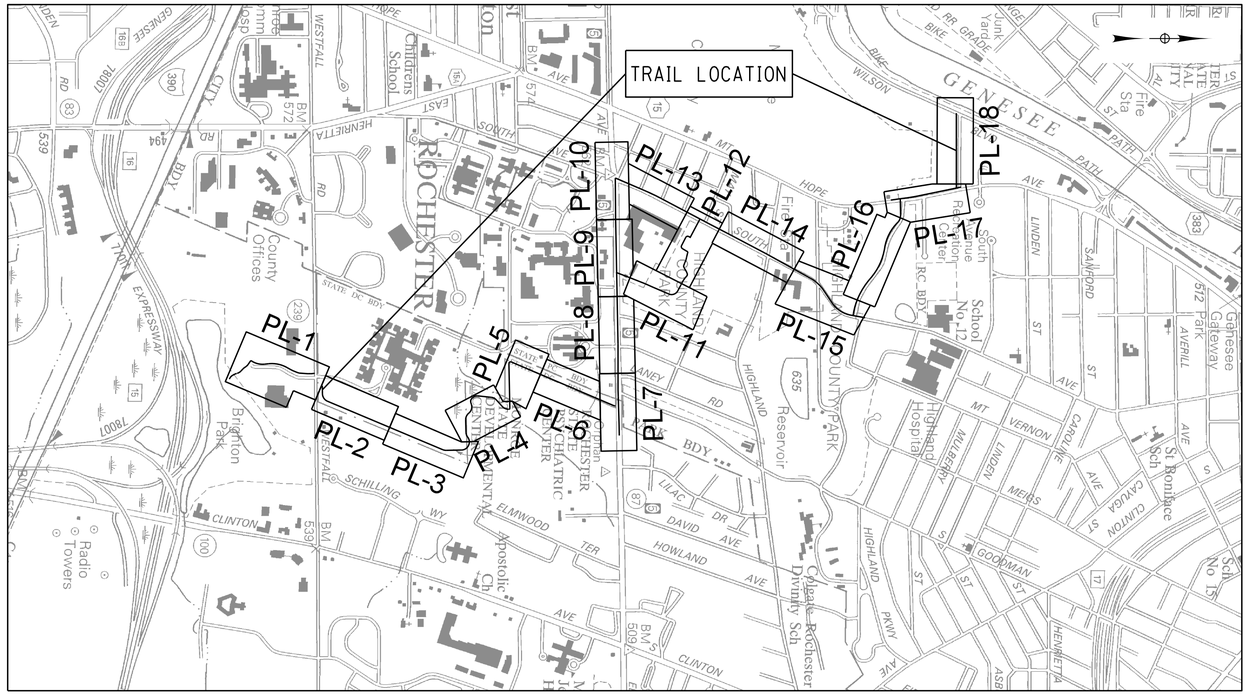


"HIGHLAND CROSSING" - TRAIL PROJECT

TOWN OF BRIGHTON & CITY OF ROCHESTER
MONROE COUNTY, NEW YORK
P.I.N. 4754.08, CONTRACT NO. D031790

110 PAGES IN PLAN SET



PROJECT LOCATION
NOT TO SCALE

THE LATEST REVISIONS OF THE STANDARD SHEETS MAINTAINED BY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, WHICH ARE CURRENT ON THE DATE OF ADVERTISEMENT FOR BIDS, SHALL BE CONSIDERED TO BE IN EFFECT. ALL PAY ITEMS AND WORK CONTAINED IN THE CONTRACT AND ANY ADDITIONAL PAY ITEMS AND WORK ENCOUNTERED DURING THE COURSE OF THE CONTRACT SHALL BE SUBJECT TO THE APPLICABLE STANDARD SHEET(S) UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.

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 PROJECT "PROPOSAL" WITH CURRENT ADDITIONS AND MODIFICATIONS, EXCEPT AS MODIFIED ON THESE PLANS OR BY CHANGES SET FORTH IN THE CONTRACT PROJECT "PROPOSAL".

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.

PREPARED BY:

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RECOMMENDED BY

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APPROVED BY

MICHAEL GUYON DATE
COMMISSIONER OF PUBLIC WORKS,
TOWN OF BRIGHTON

ALIGNMENT

ABBR.	DESCRIPTION
AH	AHEAD
AZ	AZIMUTH
BK	BACK
℄	BASELINE
BRG	BEARING
CC	CENTER OF CURVE
℄	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
POB	POINT OF BEGIN
POE	POINT OF END
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PI	POINT OF INTERSECTION
POL	POINT ON LINE
PRC	POINT OF REVERSE CURVE
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

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)

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
TB	TOP OF BANK (STREAM)
TC	TOP OF CURB
TG	TOP OF GRATE
VCP	VITRIFIED CLAY PIPE
SICPP	SMOOTH INTERIOR CORRUGATED PE

TOPOGRAPHY (MISCELLANEOUS)

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

GENERAL PLAN

ABBR.	DESCRIPTION
BM	BENCH MARK
CP	CONTROL POINT
DWG	DRAWING
NO	NUMBER
NTS	NOT TO SCALE
REFL	REFLECTORIZED
TYP	TYPICAL

INDEX OF DRAWINGS

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STANDARD SHEETS:

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FA PROJECT NO.
0911001

PROJECT MANAGER
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DRAWN BY
C. PERKINS

SCALE
NONE

ISSUE DATE
11/2018

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FISHER ASSOCIATES
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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
INDEX AND ABBREVIATIONS

DRAWING NO.
IA-1

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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
FR	-	FIBER ROLL
AA	EWAA_P	WETLAND, ADJACENT AREA
FW	EWF	WETLAND, FEDERAL
FW SW	EWFS	WETLAND, FEDERAL AND STATE
SW	EWM	WETLAND, MITIGATION AREA
SW	EWS	WETLAND, STATE

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
PL	MPL	PROPERTY LOT LINE
APL	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

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
091001

PROJECT MANAGER
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DRAWN BY
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SCALE
NONE

ISSUE DATE
11/2018

STATE OF NEW YORK ★ ★ LICENSED PROFESSIONAL ENGINEER
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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
LEGEND

DRAWING NO.
LEG-1

SHEET 3 OF 110

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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
A	AEQNAHD	EQUATION AHEAD
B	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

	BSC	BRIDGE, SCUPPER

CONTROL

	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

	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
A	IASCTS	ACCOU. SPEED/COUNT SNSR.S
P	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
A	MEPAP_P	EASEMENT, PERM., APPROX.
	MEPP_P	EASEMENT, PERM., BACK LINE
	MEPSP_P	EASEMENT, PERM., SHAPE
A	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

M1 P1 FEE	MFS_P_T	FEE ACQUISITION
M1 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 W/O A	MFS_P_T	FEE ACQUISITION W/O ACCESS

ROADWAY

	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

	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

	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
E	UEB	ELECTRIC, BOX
E	UEM	ELECTRIC, METER
E	UEMH	ELECTRIC, MANHOLE
	UEPT	ELECTRIC, POLE, TRANS.
G	UGM	GAS, METER
G	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
S	USMH	SANITARY SEWER MANHOLE
P	UTB	TELEPHONE, BOOTH
	UTLM	TELEPHONE, LINE MARKER
T	UTMH	TELEPHONE, MANHOLE
	UTVLM	CABLE TV, LINE MARKER
C	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
W	UWM	WATER, METER
W	UWMH	WATER, MANHOLE
	UWV	WATER, VALVE
	UWW	WATER, WELL

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
091001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
NONE

ISSUE DATE
11/2018

STATE OF NEW YORK
STEVEN B. SCHMID
072857
LICENSED PROFESSIONAL
ENGINEER

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WWW.FISHERASSOC.COM

PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
LEGEND

DRAWING NO.
LEG-2

SHEET 4 OF 110

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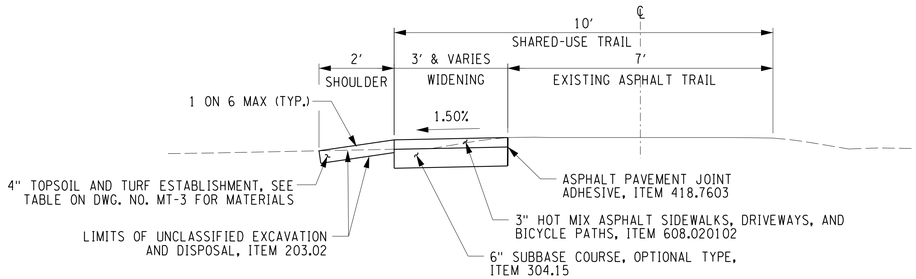
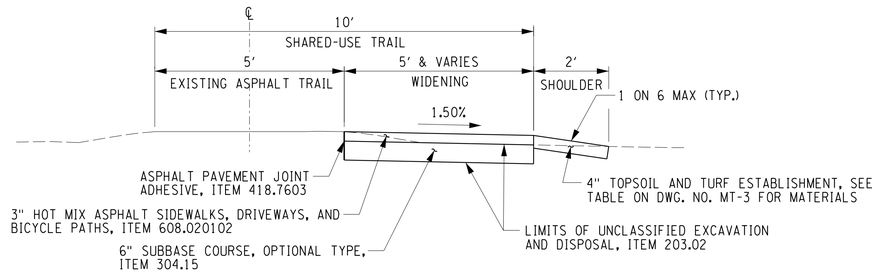
TimD



ASPHALT SHARED-USE TRAIL / WIDENING SECTION (LT.)

NOT TO SCALE

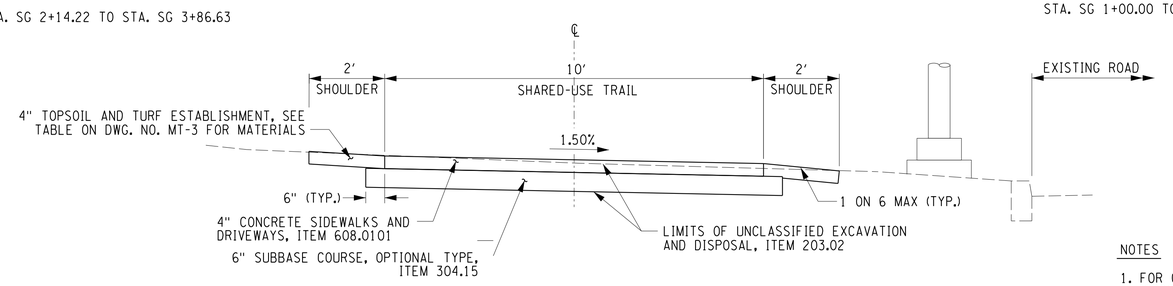
STA. SG 2+14.22 TO STA. SG 3+86.63



ASPHALT SHARED-USE TRAIL / WIDENING SECTION (RT.)

NOT TO SCALE

STA. SG 1+00.00 TO STA. SG 2+42.14



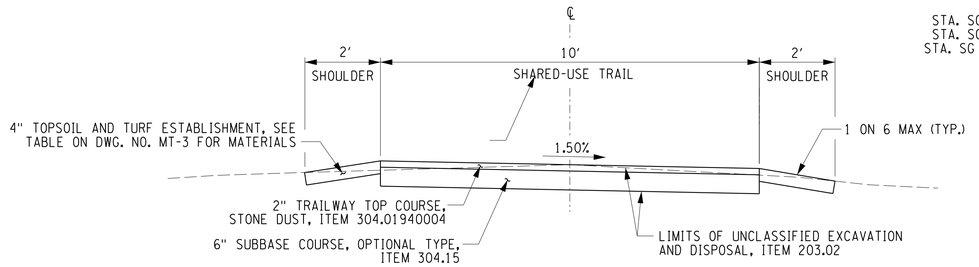
CONCRETE SHARED-USE TRAIL / SIDEPATH TRAIL SEGMENTS (10′ TRAIL WIDTH)

NOT TO SCALE

STA. SG 4+49.59 TO STA. SG 8+65.98
STA. SG 9+13.77 TO STA. SG 9+94.69
STA. SG 10+48.97 TO STA. SG 12+48.03

NOTES

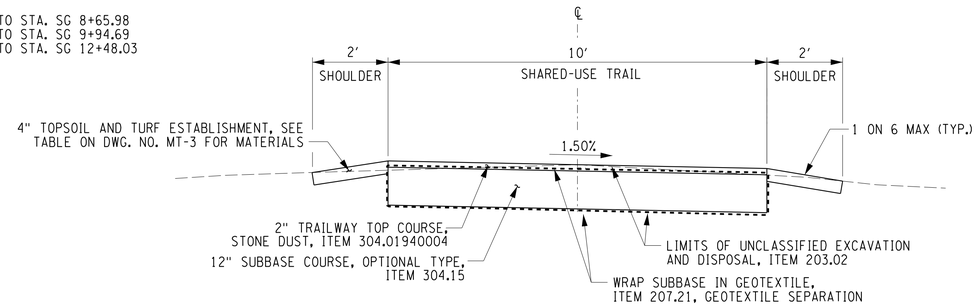
1. FOR GRADING OUTSIDE OF THE SHOULDER LIMITS SEE THE CROSS SECTIONS.



STONE DUST SHARED-USE TRAIL / OFF-ROAD TRAIL SEGMENTS (10′ TRAIL WIDTH)

NOT TO SCALE

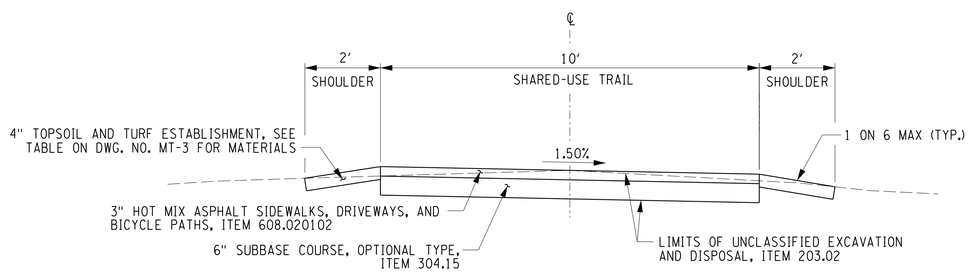
STA. SJ 2+00.00 TO STA. SJ 5+00.00
STA. SJ 8+00.00 TO STA. SJ 12+50.00
STA. SJ 14+50.00 TO STA. SJ 22+00.00



STONE DUST SHARED-USE TRAIL / OFF-ROAD TRAIL SEGMENTS (10′ TRAIL WIDTH) (12" THICK ENCAPSULATED SUBBASE)

NOT TO SCALE

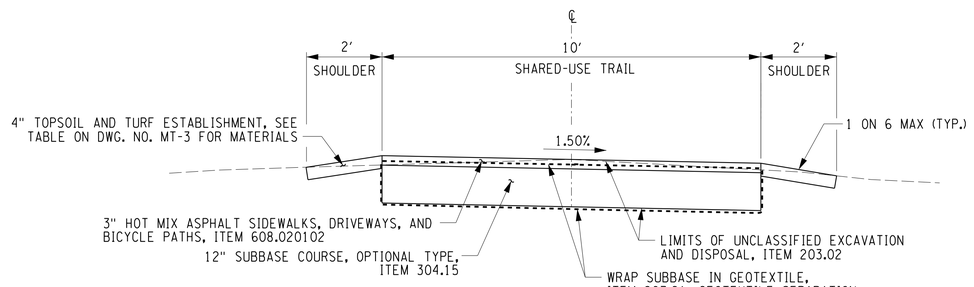
STA. SJ 5+00.00 TO STA. SJ 8+00.00
STA. SJ 12+50.00 TO STA. SJ 14+50.00



ASPHALT SHARED-USE TRAIL / OFF-ROAD TRAIL SEGMENTS (10′ TRAIL WIDTH)

NOT TO SCALE

STA. SJ 22+00.00 TO STA. SJ 28+13.00
STA. SJ 30+46.08 TO STA. SJ 34+47.62
STA. SJ 35+10.70 TO STA. SJ 48+00.00
STA. SJ 49+00.00 TO STA. SJ 53+49.80



ASPHALT SHARED-USE TRAIL / OFF-ROAD TRAIL SEGMENTS (10′ TRAIL WIDTH) (12" THICK ENCAPSULATED SUBBASE)

NOT TO SCALE

STA. SJ 48+00.00 TO STA. SJ 49+00.00

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FA PROJECT NO.
0911001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
AS SHOWN

ISSUE DATE
11/2018

STATE OF NEW YORK
JOSEPH B. SCHMID
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FISHER ASSOCIATES
WWW.FISHERASSOC.COM

PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TYPICAL SECTIONS

DRAWING NO.
TS-1

SHEET 5 OF 110

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11/16/2018 10:53:26 AM
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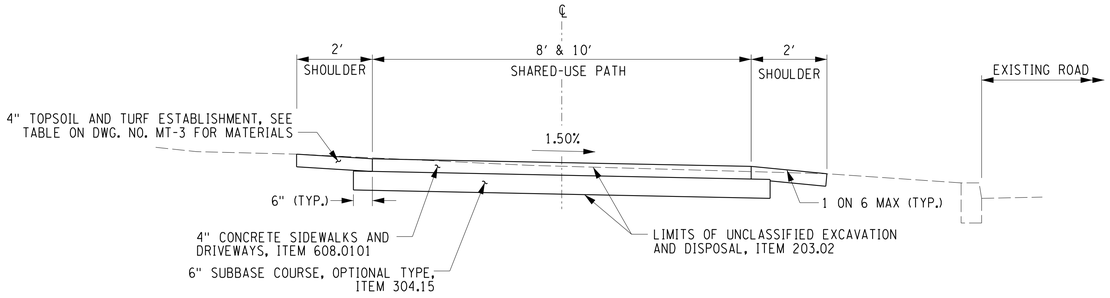


CONCRETE SHARED-USE TRAIL / SIDEPATH TRAIL SEGMENTS (8′ & 10′ TRAIL WIDTH)

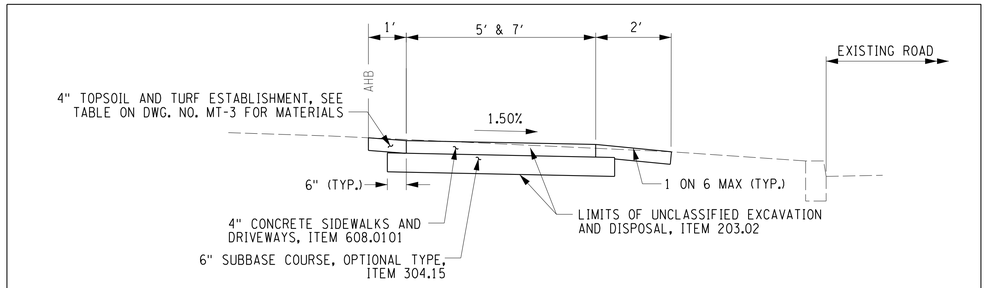
NOT TO SCALE

STA. EL 0+85.60 TO STA. EL 8+51.58
STA. EL 9+00.97 TO STA. EL 17+63.62
STA. SS 31+69.90 TO STA. SS 35+73.04
STA. SS 36+02.55 TO STA. SS 40+84.74

NOTES

1. FOR GRADING OUTSIDE OF THE SHOULDER LIMITS SEE THE CROSS SECTIONS.

ADD ALTERNATE #2



CONCRETE SIDEWALK SPOT REPLACEMENTS (5′ & 7′ SIDEWALK WIDTHS)

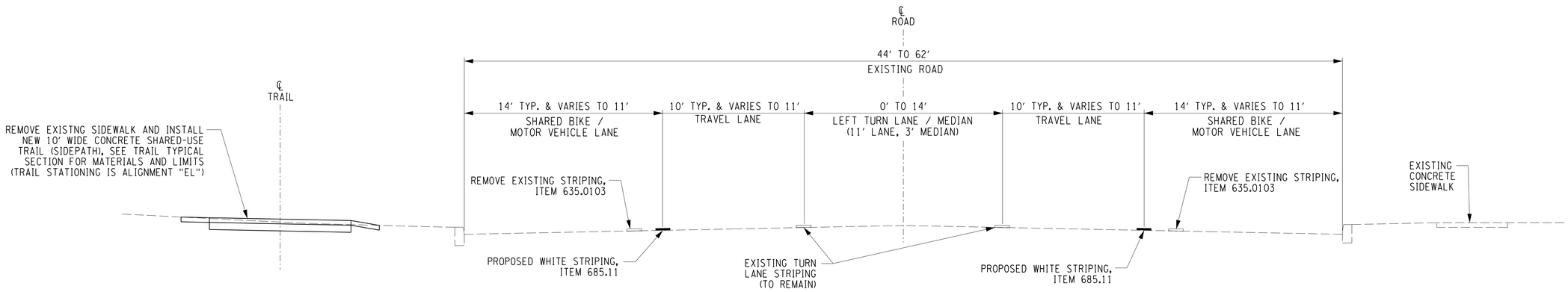
NOT TO SCALE

SOUTH AVENUE, ROBINSON DRIVE,
MOUNT HOPE AVENUE, MC LEAN STREET
(SEE TABLE ON DWG. NO. MT-1)

NOTES

1. FOR GRADING OUTSIDE OF THE SHOULDER LIMITS SEE THE CROSS SECTIONS.

2. ALL SPOT REPLACEMENTS OF CONCRETE SIDEWALK TO BE INCLUDED IN ADD ALTERNATE #2



ELMWOOD AVENUE PAVEMENT RESTRIPING (62′ ROADWAY WIDTH, LEFT TURN LANE, SHARED BIKE / MOTOR VEHICLE LANES)

NOT TO SCALE

ELMWOOD AVENUE - STA. E 8+67.12 TO STA. E 38+68.24

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FA PROJECT NO.
091001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
AS SHOWN

ISSUE DATE
11/2018

STATE OF NEW YORK · EVAN B. SCHMID · 072857 · LICENSED PROFESSIONAL ENGINEER

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TYPICAL SECTIONS

DRAWING NO.
TS-2

SHEET 6 OF 110

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11/16/2018 10:53:27 AM
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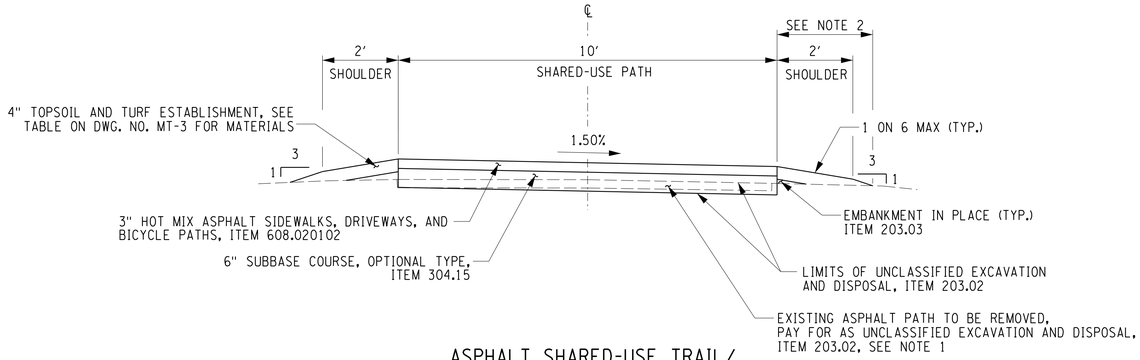


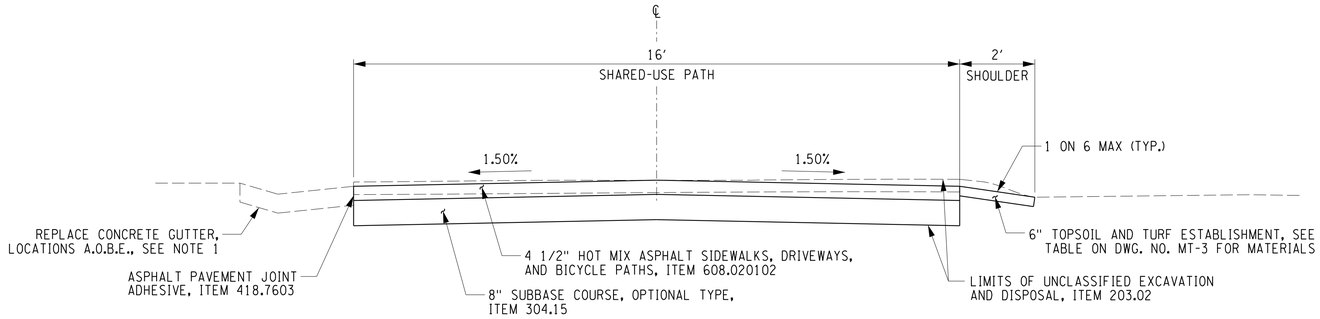
NOTES

1. WHERE AN EXISTING ASPHALT SURFACE IS ENCOUNTERED WITHIN 2 FT OF THE TOP OF THE NEW SUBBASE COURSE, THE ASPHALT SURFACE SHALL BE REMOVE WITH ITEM 203.02, UNCLASSIFIED EXCAVATION AND DISPOSAL.
2. FROM STATION HP 14+32.70 TO STA. HP 17+25.20 CREATE A 5′ WIDE GRASS STRIP ALONG PARKING LOT - SEE CROSS SECTION.

ASPHALT SHARED-USE TRAIL/ WITHIN HIGHLAND PARK (10′ TRAIL WIDTH)

NOT TO SCALE

STA. HP 1+00.00 TO STA. HP 11+05.20
STA. HP 14+38.00 TO STA. HP 17+25.60



NOTES

1. CONTRACTOR SHALL EXPOSE ALL OF THE EXISTING CONCRETE GUTTER, USING CARE TO AVOID DAMAGE TO GUTTER THAT WILL REMAIN, A.O.B.E.. EXCAVATION NECESSARY TO EXPOSE THE EXISTING GUTTER TO BE INCLUDED IN UNCLASSIFIED EXCAVATION AND DISPOSAL, ITEM NO. 203.02. A QUANTITY OF 150 SF OF CONVENTIONALLY FORMED OR MACHINE FORMED CONCRETE GUTTER, TYPE BB, ITEM 624.0109, HAS BEEN INCLUDED IN THE CONTRACT FOR GUTTER REPAIRS, LOCATION A.O.B.E..

ASPHALT SHARED-USE TRAIL/ WITHIN HIGHLAND PARK (16′ TRAIL WIDTH)

NOT TO SCALE

STA. HD 1+00.00 TO STA. HD 3+32.04

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FA PROJECT NO.
091001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
AS SHOWN

ISSUE DATE
11/2018

STATE OF NEW YORK
JOSEPH B. SCHMID
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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TYPICAL SECTIONS

DRAWING NO.
TS-3

SHEET 7 OF 110

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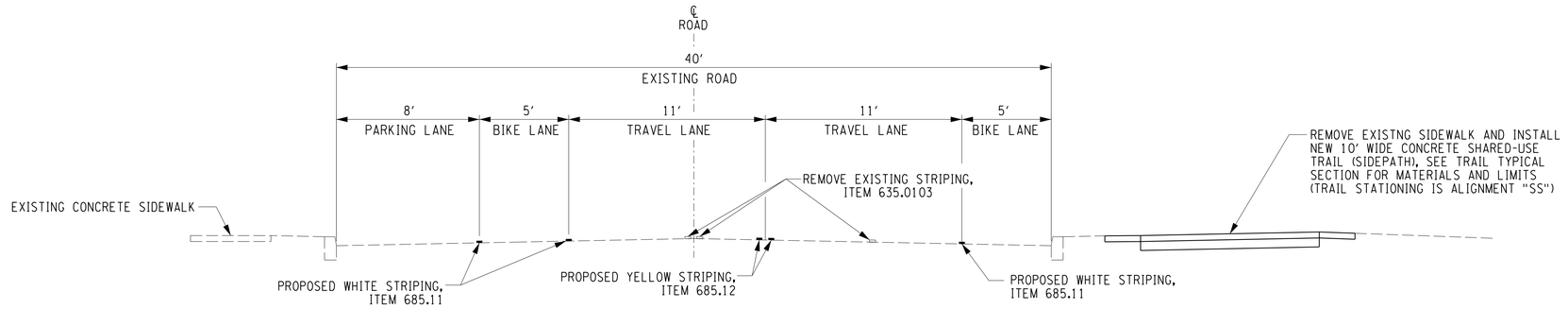
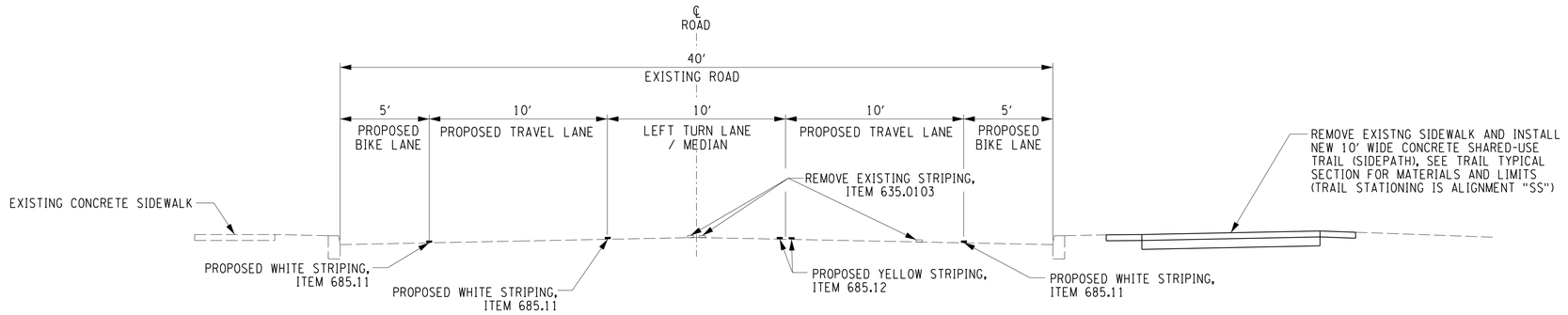
11/16/2018 10:53:27 AM
TimD



SOUTH AVE. PAVEMENT RESTRIPING
(40′ ROADWAY WIDTH, BIKE LANES, PARKING LANE)

NOT TO SCALE

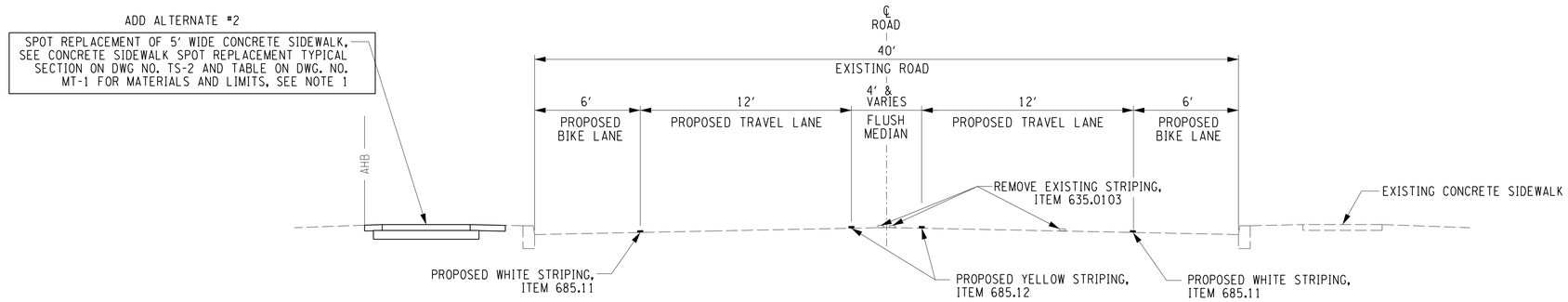
STA. SR 10+70.00 TO SR 26+77.80



SOUTH AVE. PAVEMENT RESTRIPING
(40′ ROADWAY WIDTH, LEFT TURN LANE, BIKE LANES)

NOT TO SCALE

STA. SR 26+77.80 TO SR 30+82.73



SOUTH AVE. PAVEMENT RESTRIPING
(40′ ROADWAY WIDTH, BIKE LANES, FLUSH MEDIAN)

NOT TO SCALE

STA. SR 30+82.73 TO STA. SR 44+27.00

NOTE

1. ALL SPOT REPLACEMENTS OF CONCRETE SIDEWALK TO BE INCLUDED IN ADD ALTERNATE #2

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
0910001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
AS SHOWN

ISSUE DATE
11/2018

STATE OF NEW YORK ★ JOSEPH B. SCHMID ★ 072857 ★ LICENSED PROFESSIONAL ENGINEER

FISHER ASSOCIATES
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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TYPICAL SECTIONS

DRAWING NO.
TS-4

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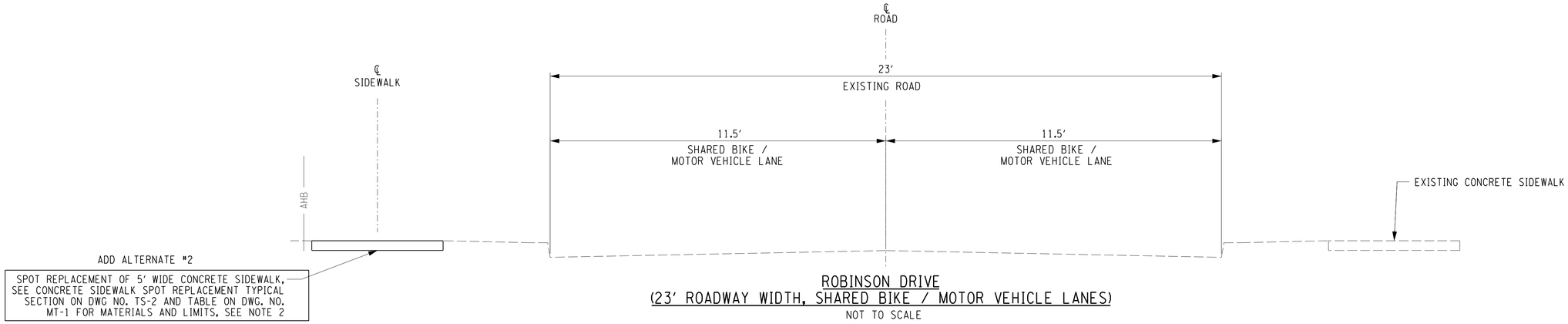
11/16/2018 10:53:28 AM
TimD

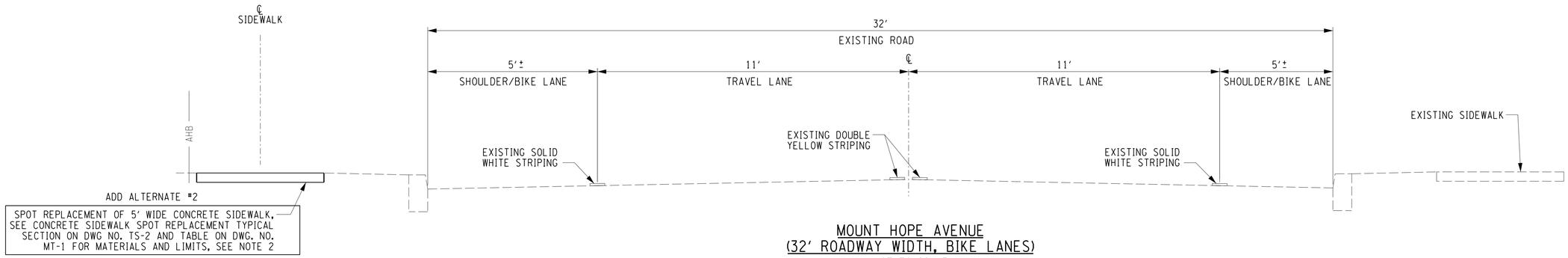


ROBINSON DRIVE
(23′ ROADWAY WIDTH, SHARED BIKE / MOTOR VEHICLE LANES)

NOT TO SCALE

SOUTH AVENUE TO MT. HOPE
STA. R 10+23.00 STA. R 25+76.00

NOTE 1:
ON STREET PARKING IS PERMITTED ON THE SOUTH SIDE OF ROBINSON DRIVE.



MOUNT HOPE AVENUE
(32′ ROADWAY WIDTH, BIKE LANES)

NOT TO SCALE

STA. M 10+50.00 TO STA. M 15+14.42

NOTE

2. ALL SPOT REPLACEMENTS OF CONCRETE SIDEWALK TO BE INCLUDED IN ADD ALTERNATE #2

REV	DESCRIPTION	DATE	BY
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If an item bearing the seal of an engineer or land surveyor, and the name of the licensee is altered, the alteration must be sealed with the notation "altered by" followed by his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO.
091001
PROJECT MANAGER
R. SCHMID
DRAWN BY
C. PERKINS
SCALE
AS SHOWN
ISSUE DATE
11/2018

STATE OF NEW YORK * RYAN B. SCHMID * 072887 * LICENSED PROFESSIONAL ENGINEER

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TYPICAL SECTIONS

DRAWING NO.
TS-5

SHEET 9 OF 110

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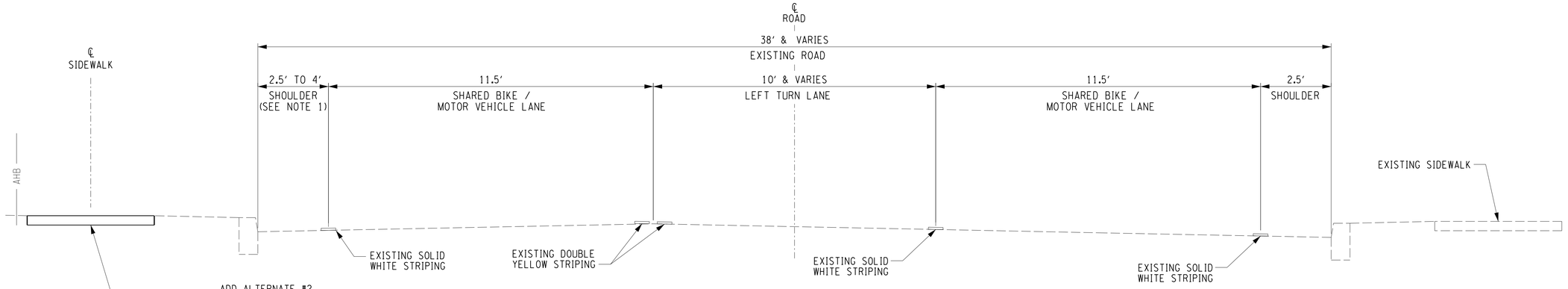
TimD



ADD ALTERNATE #2

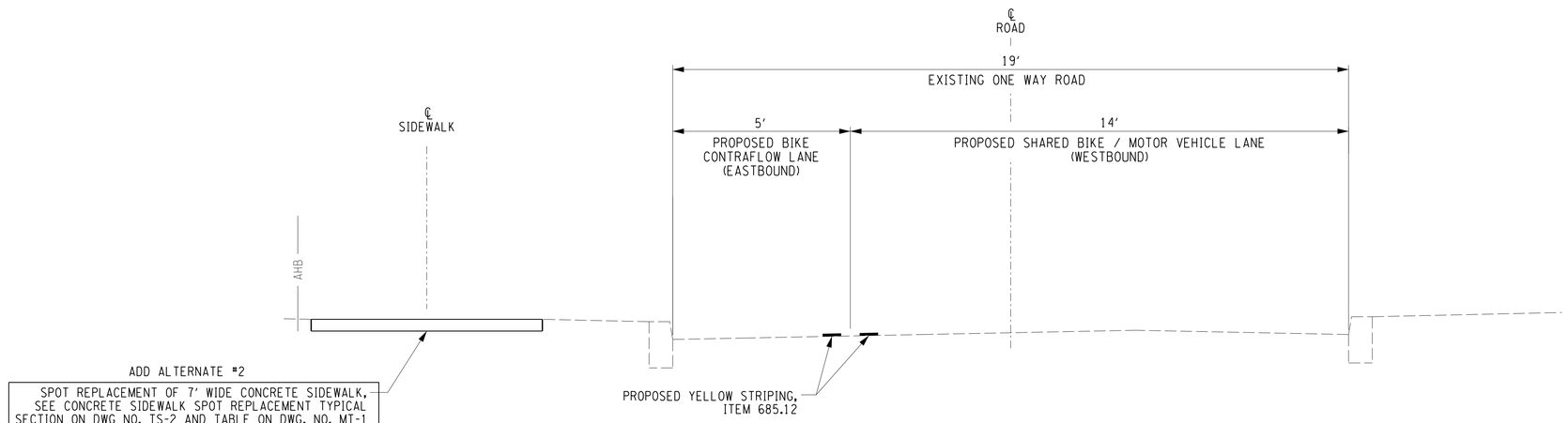
SPOT REPLACEMENT OF 5′ WIDE CONCRETE SIDEWALK, SEE CONCRETE SIDEWALK SPOT REPLACEMENT TYPICAL SECTION ON DWG NO. TS-2 AND TABLE ON DWG. NO. MT-1 FOR MATERIALS AND LIMITS, SEE NOTE 2

NOTE 1:
SHOULDER EXTENDS AN ADDITIONAL 8′ FROM STA. MH 3+10 TO STA. MH 4+00 TO PROVIDE A PARKING LANE.

MT. HOPE AVENUE
(38′ ROADWAY WIDTH, SHARED BIKE / MOTOR VEHICLE LANES)

NOT TO SCALE

STA. M 15+14.42 TO STA. M 18+60.00



ADD ALTERNATE #2

SPOT REPLACEMENT OF 7′ WIDE CONCRETE SIDEWALK, SEE CONCRETE SIDEWALK SPOT REPLACEMENT TYPICAL SECTION ON DWG NO. TS-2 AND TABLE ON DWG. NO. MT-1 FOR MATERIALS AND LIMITS, SEE NOTE 2

MC LEAN STREET RESTRIPING
(19′ ROADWAY WIDTH, BIKE CONTRAFLOW LANE, SHARED BIKE / MOTOR VEHICLE LANE)

NOT TO SCALE

STA. MC 10+36.17 TO STA. MC 18+88.34

NOTE

2. ALL SPOT REPLACEMENTS OF CONCRETE SIDEWALK TO BE INCLUDED IN ADD ALTERNATE #2

REV	DESCRIPTION	DATE	BY
7			
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1			

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If an item bearing the seal of an engineer, land surveyor, and stamp, the altering engineer, land surveyor, the item, his/her seal and the notation "altered by" followed by his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO.
091001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
AS SHOWN

ISSUE DATE
11/2018

STATE OF NEW YORK * JOSEPH B. SCHMID * 072857 * LICENSED PROFESSIONAL ENGINEER

FISHER ASSOCIATES
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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TYPICAL SECTIONS

DRAWING NO.
TS-6

SHEET 10 OF 110

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TimD

PROJECT SPECIFIC NOTES:

1. WORK WITHIN HIGHLAND PARK OR ALONG THE ADJACENT ROADWAYS (ELMWOOD AVE., SOUTH AVE., ROBINSON DR.), SHALL BE SCHEDULED TO BE COMPLETED 5 DAYS PRIOR TO, OR SHALL NOT BE STARTED UNTIL 5 DAYS FOLLOWING THE LILAC FESTIVAL. THE DATES FOR THE 2019 LILAC FESTIVAL ARE MAY 10TH THROUGH MAY 19TH. THE DATES FOR THE 2020 LILAC FESTIVAL ARE TO BE DETERMINED.
2. LANE CLOSURES ARE NOT ALLOWED ON WEEKDAYS, DURING PEAK HOURS, BETWEEN THE HOURS OF 7AM TO 9AM, AND 4PM TO 6 PM.

GENERAL NOTES:

1. CONTRACTOR IS TO FOLLOW ALL PROVISIONS OF NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, EXCEPT FOR THOSE AS REVISED IN SPECIFICATION SECTION OF CONTRACT DOCUMENTS. REVISED SPECIFICATIONS PROVIDED IN SPECIFICATION SECTION OF CONTRACT DOCUMENTS SUPERSEDES APPROPRIATE STANDARD SPECIFICATION.
2. LOCATIONS OF EXISTING UTILITIES BOTH ABOVE GROUND AND BELOW GROUND THAT ARE SHOWN IN CONTRACT DRAWINGS ARE APPROXIMATE ONLY, AND ARE NOT GUARANTEED TO BE ACCURATE OR COMPLETE. ALL EXISTING UTILITIES SHOWN WERE PLOTTED FROM FIELD SURFACE SURVEY DATA AND IN CONJUNCTION WITH RECORD MAPPING SUPPLIED BY RESPECTIVE UTILITY COMPANY. BEFORE COMMENCING ANY WORK, IT IS RESPONSIBILITY OF CONTRACTOR TO HAVE LOCATION OF ALL EXISTING UTILITIES LOCATED WITHIN WORK AREA VERIFIED BY RESPECTIVE UTILITY COMPANY. CONTRACTOR IS TO REQUEST A UTILITY STAKE OUT MINIMUM OF 48 HOURS IN ADVANCE OF COMMENCING ANY WORK, BY CALLING DIG SAFELY NEW YORK, UFPO AT (800) 962-7962.
3. ALL RIGHT-OF-WAY MONUMENTS AND PROPERTY CORNERS ARE TO BE PROTECTED, SAFEGUARDED AND PRESERVED. ALL RIGHT-OF-WAY MONUMENTS OR PROPERTY CORNERS THAT ARE DISTURBED BY CONTRACTOR OPERATIONS DURING CONSTRUCTION OF PROJECT ARE TO BE REPLACED BY NYS LICENSED SURVEYOR, AT CONTRACTOR EXPENSE.
4. SAW CUTS MADE IN ROADWAY ARE TO BE FULL DEPTH, WITH ALL OTHER SAW CUTS BEING MINIMUM OF 2 INCHES IN DEPTH. SAW CUTS WILL BE INCLUDED IN THEIR RESPECTIVE WORK RELATED ITEM, AS INDICATED IN CONTRACT DOCUMENTS. ALL SAW CUTS ARE TO BE SEALED WITH AN ASPHALT FILLER PER NYSDOT MATERIAL DESIGNATION 702-0500 OR 702-3401, COST OF WHICH IS TO BE INCLUDED IN UNIT PRICE BID FOR RESPECTIVE WORK RELATED ITEM.
5. ALL SHOP DRAWINGS FOR THIS PROJECT SHALL BE IN U.S. CUSTOMARY UNITS.
6. THE COST OF WATER USED FOR COMPACTION OF SELECT FILL ITEMS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR FILL ITEMS. NO SEPARATE PAYMENT WILL BE MADE.
7. THE COST OF ALL JOINT MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS ITEMS OF THE CONTRACT, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
8. UNLESS OTHERWISE INDICATED ON THE PLANS, WORK TO BE PERFORMED UNDER THIS CONTRACT DOES NOT REQUIRE THE DISTURBING, DESTRUCTION OR REMOVAL OF ANY KNOWN MATERIALS CONTAINING ASBESTOS. UNLESS OTHERWISE INDICATED ON THE PLANS, IT IS THE EXPRESS INTENT OF THIS CONTRACT THAT THESE MATERIALS NOT BE DISTURBED IN ANY WAY. SHOULD THE CONTRACTOR BE FORCED TO DISTURB IN ANY WAY ANY SUCH MATERIALS, THE CONTRACTOR SHALL FIRST BE FAMILIAR WITH INDUSTRIAL CODE RULE 56 OF THE N.Y.S. DEPARTMENT OF LABOR. THE CONTRACTOR SHALL ALSO OBTAIN WRITTEN PERMISSION OF THE ENGINEER BEFORE PROCEEDING.
9. NO ADDITIONAL PAYMENT WILL BE MADE FOR WORK CALLED FOR BY NOTES ON THE PLANS OR IN THE SPECIFICATIONS UNLESS PAYMENT IS SPECIFICALLY INDICATED BY ITEM NUMBER. THE COST OF WORK FOR WHICH NO PAYMENT ITEM IS INDICATED SHALL BE INCLUDED IN THE UNIT PRICES BID FOR VARIOUS ITEMS OF THE CONTRACT.
10. CONTRACTOR SHALL WORK WITHIN THE CONTRACT LIMITS AND EASEMENTS THAT HAVE BEEN ESTABLISHED FOR THE PROJECT.

WORK ZONE TRAFFIC CONTROL NOTES:

1. GENERAL WORK ZONE TRAFFIC CONTROL WILL BE REQUIRED FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH AND ERECT, MOVE AND REMOVE REFLECTORIZED CONSTRUCTION SIGNS, BARRICADES, PAVEMENT DELINEATION, AND EQUIPMENT NECESSARY TO SAFELY DIRECT MOTORISTS AND PEDESTRIANS A.O.B.E.
2. WORK ZONE TRAFFIC CONTROL MUST COMPLY WITH THE NATIONAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES WITH NEW YORK STATE SUPPLEMENT, SECTION 619 OF THE CURRENT NYSDOT STANDARD SPECIFICATIONS, THESE PLANS AND AS ORDERED BY THE RESIDENT ENGINEER.
3. NO NIGHT WORK SHALL BE ALLOWED UNLESS APPROVED PRIOR TO THE START OF THE PROJECT. ADDITIONAL WORK ZONE TRAFFIC CONTROL MAY BE REQUIRED INCLUDING THE ADDITION OF REFLECTIVE MATERIAL AND LIGHTING.
4. WARNING SIGNS SHALL BE PLACED IN ADVANCE OF CONSTRUCTION ENTRANCES ON PUBLIC ROADS. THE WARNING SIGNS SHALL BE A MUTCD W21-3 MODIFIED TO READ "TRUCK ENTRANCE AHEAD" AND SHALL BE LOCATED 100' IN ADVANCE OF ENTRANCES OR AT A LOCATION A.O.B.E..

UTILITY NOTES:

1. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PRESERVE THE INTEGRITY OF EXISTING UTILITIES TO REMAIN AND SHALL PROVIDE UNINTERRUPTED SERVICE TO ALL USERS OF THE EXISTING UTILITIES. EXISTING UTILITIES (TO REMAIN) ENCOUNTERED IN TRENCH OR PAVEMENT RECONSTRUCTION EXCAVATIONS SHALL BE SUPPORTED AS ORDERED BY THE RESIDENT ENGINEER. THE COST FOR SUPPORTING UTILITIES SHALL BE INCLUDED IN THE PRICE BID FOR EXCAVATION. THE CONTRACTOR SHALL BE REQUIRED TO COORDINATE ALL HIS CONSTRUCTION ACTIVITIES WITH ANY AFFECTED UTILITY COMPANIES.
2. ALL EXISTING SANITARY OR STORM SEWER LATERALS ENCOUNTERED DURING CONSTRUCTION SHALL BE PROTECTED FROM DAMAGE AND RECONNECTED TO MAIN SEWER AOBE.
3. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE AND ELEVATION OF ALL EXISTING DRAINAGE PIPES THAT WILL BE RETAINED, PRIOR TO ORDERING NEW DRAINAGE STRUCTURES AND PIPES.

HIGHWAY NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO EXISTING PAVEMENT, SIDEWALK, LAWN AREAS, TREES AND OTHER EXISTING FEATURES CAUSED BY HIS OPERATION. ALL SUCH DAMAGE TO EXISTING FEATURES WHICH ARE TO REMAIN SHALL BE REPAIRED OR REPLACED IN KIND BY THE CONTRACTOR AT HIS OWN EXPENSE.
2. ROADS TO BE KEPT CLEAN OF DEBRIS AT ALL TIMES.
3. ROADSIDE DRAINAGE TO BE MAINTAINED AT ALL TIMES.
4. MATERIALS, EQUIPMENT AND VEHICLES ARE NOT TO BE STORED OR PARKED WITHIN THE COUNTY/CITY RIGHT-OF-WAY UNLESS THE CONTRACTOR MAKES PRIOR ARRANGEMENTS WITH THE COUNTY/CITY.
5. ALL MATERIALS USED WITHIN THE RIGHT-OF-WAY MUST COMPLY WITH THE CURRENT NEW YORK STATE DEPARTMENT OF TRANSPORTATION'S SPECIFICATIONS ALONG WITH ANY APPROPRIATE CURRENT NYS DEPARTMENT OF TRANSPORTATION'S STANDARD SHEETS.
6. PRIOR TO THE REMOVAL OF ANY PRIVATE SIGNS, FENCES, ETC. WITHIN THE ROW, THE CONTRACTOR SHALL GIVE THE PROPERTY OWNER(S) THREE (3) DAYS ADVANCE NOTICE.
7. THE CONTRACTOR SHALL RE-SEED ALL NON-PAVED DISTURBED AREAS UNDER ITEM 610.1602, TURF ESTABLISHMENT - LAWNS AND ITEM 610.1403, TOPSOIL - LAWNS, UNLESS SHOWN OTHERWISE.

TREE NOTES:

1. CONTRACTOR IS TO PROVIDE PROTECTION OF EXISTING TREES ADJACENT TO CONSTRUCTION WORK THROUGHOUT COURSE OF PROJECT, TO MINIMIZE AS MUCH AS POSSIBLE ANY DAMAGE FROM OCCURRING TO EXISTING TREES AS RESULT OF CONTRACTOR OPERATIONS. TREE PROTECTION IS TO CONSIST OF ORANGE CONSTRUCTION SAFETY FENCING PLACED AROUND AND COMPLETELY ENCOMPASSING EACH EXISTING TREE, AND IS TO BE IN PLACE BEFORE ANY WORK IS STARTED, PER DETAIL ON SHEET ECN-01 AND CONTRACT DOCUMENTS.
2. NO TREES SHALL BE REMOVED OR TRIMMED WITHOUT THE APPROVAL OF THE RESIDENT ENGINEER AND PROPERTY OWNER. TREE REMOVALS SHALL ONLY OCCUR WITHIN THE EXISTING RIGHT-OF-WAY AND IN AREAS WHERE THE APPROPRIATE RIGHT-OF-WAY ACQUISITION HAS BEEN OBTAINED (I.E., PERMANENT EASEMENT, TEMPORARY EASEMENT, OR FEE TAKING) AND THE REMOVAL HAS BEEN AUTHORIZED.
3. TREE REMOVALS 4" DIAMETER AND LESS MEASURED 4.5' FROM THE GROUND, COMMONLY REFERRED TO AS DIAMETER BREAST HIGH (DBH), WILL BE PAID UNDER ITEM 201.06 - CLEARING AND GRUBBING.
4. THE CLEARING, GRUBBING, REMOVING AND DISPOSING OF ALL TREES, BRUSH, STUMPS, FENCES, DEBRIS, AND MISCELLANEOUS STRUCTURES WITHIN THE HIGHWAY BOUNDARIES AND EASEMENTS SHALL BE PAID UNDER ITEM 201.06, CLEARING AND GRUBBING, UNLESS OTHERWISE NOTED ON THE PLANS.
5. DATE RESTRICTIONS APPLY TO THE REMOVAL OF TREES 3" DIAMETER BREAST HIGH (DBH) OR GREATER. DUE TO ENVIRONMENTAL REGULATIONS, REMOVALS MUST OCCUR BETWEEN OCTOBER 31ST AND MARCH 31ST.
6. FOR ASH TREE REMOVALS, THE CONTRACTOR SHALL VERIFY IF ASH TREES SHOW SIGNS OF THE PRESENCE OF THE INVASIVE EMERALD ASH BORER. IF THERE IS EVIDENCE OF THE EMERALD ASH BORER ON THE PROJECT SITE, ASH TREES THAT ARE BEING REMOVED SHALL BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH THE REGULATIONS OF THE USDA ANIMAL & PLANT HEALTH INSPECTION SERVICE, NYS DEPT. OF AGRICULTURE & MARKETS, AND NYSDEC.

TOWN OF BRIGHTON GENERAL NOTES

1. ANY CONTRACTOR OR INDIVIDUAL INVOLVED IN THE PLANTING, MAINTENANCE OR REMOVAL OF TREES SHALL COMPLY WITH THE REQUIREMENTS OF THE TOWN'S COMPREHENSIVE DEVELOPMENT REGULATIONS FOR EXCAVATION AND CLEARING (CHAPTER 66), TREES (CHAPTER 175) AND OTHER PERTINENT REGULATIONS. THE CONTRACTOR SHALL BE A REGISTERED TREE-SERVICE PROVIDER WITH THE TOWN, AND SHALL CARRY INSURANCE AS REQUIRED BY CHAPTER 175 OF THE TOWN'S COMPREHENSIVE DEVELOPMENT REGULATIONS.
2. THE FINAL LOCATION OF TREES AND OTHER LANDSCAPING SHALL BE DETERMINED IN THE FIELD BASED ON UTILITY STAKEOUT AND SHALL NOT CONFLICT WITH TRAFFIC SIGNS AND/OR UTILITIES.
3. THE CONTRACTOR IS DIRECTED TO OBTAIN A CURRENT COPY OF THE TOWN OF BRIGHTON STANDARDS PRIOR TO BEGINNING WORK.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES AND REPAIRS TO ALL UTILITIES, PUBLIC AND PRIVATE ROADWAYS, SIDEWALKS, AND STRUCTURES INCLUDING SIGNS, RESULTING FROM HIS OPERATION.
5. TO AVOID DAMAGING TREES WITH CONSTRUCTION EQUIPMENT, PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL PRUNE TREES THAT WILL REMAIN, AS REQUIRED UNDER SECTION 201-3.02 OF THE CLEARING AND GRUBBING SPECIFICATIONS. ALL PRUNING TO BE APPROVED BY THE E.I.C.. MATERIALS AND EQUIPMENT STORAGE SHALL NOT BE ALLOWED IN FENCED AREAS.
6. EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
7. THE CONTRACTOR SHALL DESIGNATE A MEMBER OF HIS OR HER FIRM TO BE RESPONSIBLE TO MONITOR EROSION CONTROL, EROSION CONTROL MEASURES, TREE PROTECTION AND PRESERVATION THROUGHOUT CONSTRUCTION.
8. ALL DISTURBED AREAS SHALL BE PROTECTED FROM EROSION EITHER BY MULCH OR TEMPORARY SEEDING WITHIN TWO WEEKS OF DISTURBANCE.
9. TREE PROTECTION AND EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO CLEARING OR CONSTRUCTION.

SUGGESTED CONSTRUCTION SEQUENCE:

CONCRETE AND ASPHALT TRAIL SOUTH OF WESTFALL ROAD (SAWGRASS DRIVE)

1. INSTALL NECESSARY MAINTENANCE AND PROTECTION OF TRAFFIC
2. INSTALL APPROPRIATE SILT FENCING, FIBER ROLLS AND TEMPORARY PLASTIC BARRIER FENCE TREE PROTECTION.
3. PERFORM CLEARING AND GRUBBING AND TREE REMOVALS, SEE THE TREE NOTES FOR DATE AND HANDLING RESTRICTIONS.
4. CONSTRUCT THE NEW KIOSK.
5. PERFORM GRADING AND CONSTRUCT THE NEW CONCRETE AND ASPHALT TRAIL.
6. STABILIZE OR INSTALL THE FINAL TOPSOIL AND TURF ESTABLISHMENT IN THE DISTURBED AREAS.
7. PERFORM STRIPING AND SIGN WORK.
8. REMOVE THE TEMPORARY EROSION CONTROL MEASURES.

10' WIDE STONE DUST AND ASPHALT TRAIL NORTH OF WESTFALL ROAD AND SOUTH OF ELMWOOD AVENUE

1. CONSTRUCT THE STABILIZED CONSTRUCTION ENTRANCES.
2. INSTALL APPROPRIATE SILT FENCING, FIBER ROLLS AND TEMPORARY PLASTIC BARRIER FENCE TREE PROTECTION.
3. PERFORM CLEARING AND GRUBBING AND TREE REMOVALS, SEE THE TREE NOTES FOR DATE AND HANDLING RESTRICTIONS.
4. PERFORM ROUGH GRADING AND INSTALL NEW DRAINAGE PIPES.
5. TEMPORARILY STABILIZE DISTURBED AREAS.
6. PLACE TEMPORARY GROUND PROTECTION MAT AND REMOVE THE EXISTING BOARDWALK.
7. CONSTRUCT THE NEW BOARDWALK.
8. CONSTRUCT THE NEW STONE DUST AND ASPHALT TRAIL.
9. INSTALL THE TOPSOIL AND TURF ESTABLISHMENT.
10. REMOVE THE TEMPORARY EROSION CONTROL MEASURES.

10' WIDE ASPHALT TRAIL THROUGH HIGHLAND PARK

1. CONSTRUCT THE STABILIZED CONSTRUCTION ENTRANCE.
2. INSTALL APPROPRIATE SILT FENCING, CHECK DAMS AND TEMPORARY PLASTIC BARRIER FENCE TREE PROTECTION.
3. PERFORM CLEARING AND GRUBBING AND TREE REMOVALS, SEE THE TREE NOTES FOR DATE AND HANDLING RESTRICTIONS.
4. PERFORM GRADING AND CONSTRUCT THE NEW ASPHALT TRAIL.
5. STABILIZE OR INSTALL THE FINAL TOPSOIL AND TURF ESTABLISHMENT IN THE DISTURBED AREAS.
6. INSTALL THE NEW SIGNS.
7. REMOVE THE TEMPORARY EROSION CONTROL MEASURES.

CONCRETE TRAIL ALONG ELMWOOD AVENUE AND SOUTH AVENUE

1. INSTALL NECESSARY MAINTENANCE AND PROTECTION OF TRAFFIC
2. INSTALL APPROPRIATE SILT FENCING, FIBER ROLLS AND TEMPORARY PLASTIC BARRIER FENCE TREE PROTECTION.
3. PERFORM CLEARING AND GRUBBING AND TREE REMOVALS, SEE THE TREE NOTES FOR DATE AND HANDLING RESTRICTIONS.
4. PERFORM GRADING AND CONSTRUCT THE NEW CONCRETE TRAIL.
5. STABILIZE OR INSTALL THE FINAL TOPSOIL AND TURF ESTABLISHMENT IN THE DISTURBED AREAS.
6. PERFORM STRIPING AND SIGN WORK.
7. REMOVE THE TEMPORARY EROSION CONTROL MEASURES.

ADD ALTERNATES

THIS CONTRACT INCLUDES THREE ADD ALTERNATES:

ADD ALTERNATE #1 - DECKING, RAILING, RAIL POSTS, APPROACH RAILING AND APPROACH RAIL POSTS SHALL USE IPE LUMBER IN ACCORDANCE WITH THE SPECIAL NOTES IN THE CONTRACT DOCUMENTS AND BE PAID UNDER ITEM 594.01

ADD ALTERNATE #2 - CONCRETE SIDEWALK SPOT REPLACEMENTS ON SOUTH AVENUE, ROBINSON DRIVE, MT. HOPE AVENUE AND MCLEAN STREET

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
091001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
NO SCALE

ISSUE DATE
11/2018

STATE OF NEW YORK * BRIAN B. SCHMID * 078274 * LICENSED PROFESSIONAL ENGINEER

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
GENERAL NOTES

DRAWING NO.
GN-1

SHEET 11 OF 110

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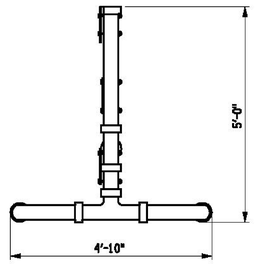

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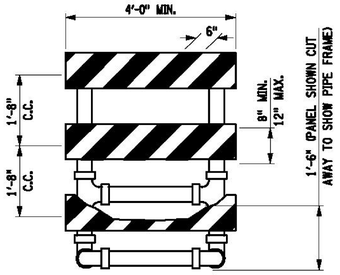

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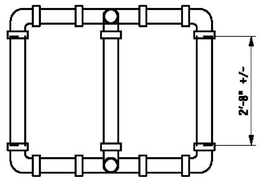
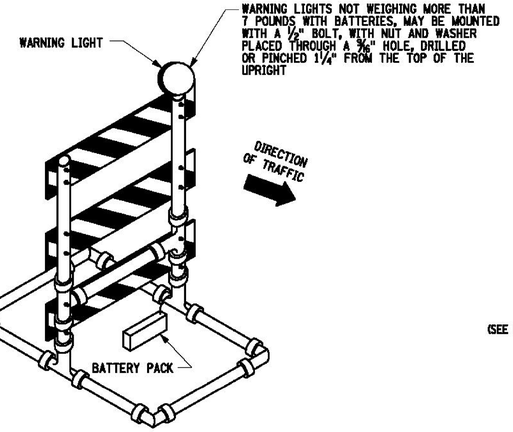


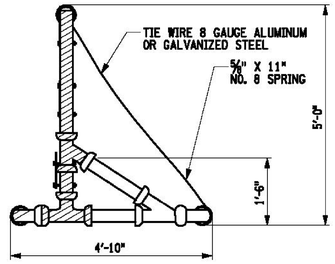
TYPE III CONSTRUCTION BARRICADE
ALTERNATE "A"

NOTES:

1. THE DETAILS AND MATERIALS FOR TYPE III CONSTRUCTION BARRICADES ARE NCHRP 350 APPROVED. IF THE CONTRACTOR ELECTS TO USE AN ALTERNATE DESIGN OR MATERIALS, THE ALTERNATIVE SHALL BE NCHRP 350 APPROVED.
2. THE ALTERNATES SHOWN ON THIS SHEET ARE EQUALLY ACCEPTABLE AND THE CONTRACTOR MAY USE ANY ONE OR A MIXTURE OF TYPES.
3. PANELS SHALL HAVE 6" WIDE REFLECTORIZED ORANGE AND WHITE DIAGONAL STRIPES OF TYPE I OR TYPE III SHEETING SLOPING AT AN ANGLE OF 45°, IN ACCORDANCE WITH §729-08. THE STRIPES SHALL SLOPE DOWNWARD TOWARD THE SIDE ON WHICH TRAFFIC IS TO PASS.
4. BALLAST MAY BE PLACED ON THE BASE MEMBERS OF THE BARRICADE. BALLAST SHALL NOT EXTEND INTO THE ACCESSIBLE PASSAGE WIDTH OF 5' WHERE BARRICADES ARE USED TO CHANNELIZE PEDESTRIANS.
5. PANELS FOR BARRICADES MAY BE WOOD, PLASTIC, OR ALUMINUM. PIPE FOR BARRICADES SHALL USE SDR SIZES 21 TO 32.5.
6. WHEN THE BATTERY AND LIGHT WEIGH MORE THAN 7 LBS, THE BATTERY SHALL BE MOUNTED ON THE BOTTOM OF THE BARRICADE.
7. ALL PIPES SHALL BE WHITE. WHITE FITTINGS ARE PREFERRED, BLACK MAY BE USED. ALL JOINTS IN ALTERNATE "A" SHALL BE GLUED WITH A SOLVENT CEMENT COMPATIBLE WITH THE P.V.C. PIPE.
8. ALL JOINTS IN ALTERNATE "B" SHALL BE FREE TO SEPARATE UPON VEHICLE IMPACT. SHADED PIPES AND FITTINGS SHALL BE TIED TOGETHER WITH A MINIMUM ⅜" DIA. NYLON, OR EQUIVALENT ROPE THREADED INTO THE PIPE AND FITTING INTERIOR.
9. IF BARRICADES ARE USED TO TEMPORARILY CHANNELIZE PEDESTRIANS, THERE SHALL BE A CONTINUOUS DETECTABLE BOTTOM AND TOP RAILS WITH NO GAP BETWEEN INDIVIDUAL BARRICADES TO BE DETECTABLE TO BLIND OR VISUALLY IMPAIRED USERS OF LONG CANES. THE BOTTOM OF THE BOTTOM RAIL SHALL BE NO HIGHER THAN 6" ABOVE THE GROUND AND THE TOP OF THE TOP RAIL SHALL BE NO LOWER THAN 3' ABOVE THE GROUND.



DETAILS FOR FASTENING LIGHTS ON TOP OF BARRICADE



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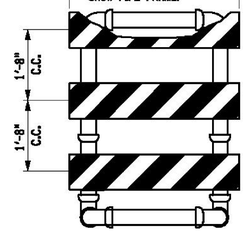

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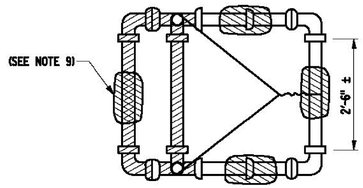

TYPE III CONSTRUCTION BARRICADE
ALTERNATE "B"

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY STANDARD SHEET

TYPE III CONSTRUCTION BARRICADES
(SHEET 1 OF 2)

APPROVED OCTOBER 06, 2008	ISSUED UNDER EB 08-036
/S/ J. F. TYMAN, P.E. DEPUTY CHIEF ENGINEER (CONSTRUCTION)	619-02

EFFECTIVE DATE: 01/08/09

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FA PROJECT NO.
0911001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
NONE

ISSUE DATE
11/2018

STATE OF NEW YORK ★ STEVEN B. SCHMID ★ 072857 ★ LICENSED PROFESSIONAL ENGINEER

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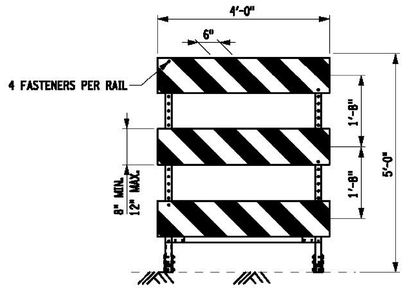
PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
WORK ZONE TRAFFIC CONTROL DETAILS

DRAWING NO.
WZTC-01



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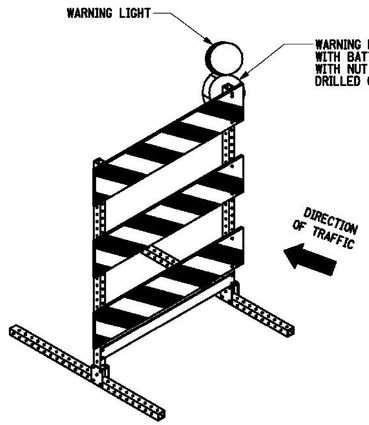


WARNING LIGHTS WEIGHING NOT MORE THAN 7 POUNDS WITH BATTERIES, MAY BE MOUNTED WITH A ½" BOLT, WITH NUT & WASHER, PLACED THROUGH A 9/16" HOLE DRILLED OR PUNCHED 1¼" FROM THE TOP OF THE UPRIGHT.

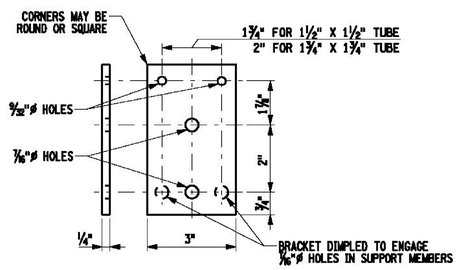
DETAIL FOR FASTENING LIGHT ON TOP OF BARRICADE

NOTES:

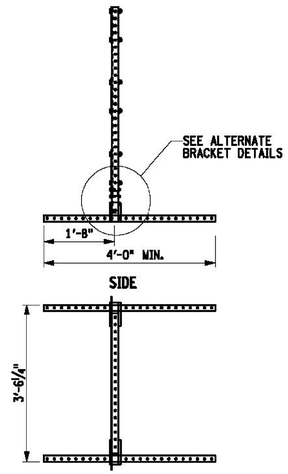
1. THE DETAILS AND MATERIALS FOR TYPE III CONSTRUCTION BARRICADES ARE NCHRP 350 APPROVED. IF THE CONTRACTOR ELECTS TO USE AN ALTERNATE DESIGN OR MATERIALS, THE ALTERNATIVE SHALL BE NCHRP 350 APPROVED.
2. THE ALTERNATES SHOWN ON THIS SHEET ARE EQUALLY ACCEPTABLE AND THE CONTRACTOR MAY USE ANY ONE OR A MIXTURE OF TYPES.
3. PANELS SHALL HAVE 6" WIDE REFLECTORIZED ORANGE AND WHITE DIAGONAL STRIPES OF TYPE I OR TYPE III SHEETING SLOPING AT AN ANGLE OF 45°, IN ACCORDANCE WITH §729-08. THE STRIPES SHALL SLOPE DOWNWARD TOWARD THE SIDE ON WHICH TRAFFIC IS TO PASS.
4. BALLAST MAY BE PLACED ON THE BASE MEMBERS OF THE BARRICADE. BALLAST SHALL NOT EXTEND INTO THE ACCESSIBLE PASSAGE WIDTH OF 5' WHERE BARRICADES ARE USED TO CHANNELIZE PEDESTRIANS.
5. PANELS FOR BARRICADES MAY BE WOOD, PLASTIC, OR ALUMINUM.
6. WHEN THE BATTERY AND LIGHT WEIGH MORE THAN 7 LBS, THE BATTERY SHALL BE MOUNTED AT THE BOTTOM OF THE BARRICADE.
7. ALTERNATE "M" BARRICADES SHALL BE EXTENDED WITH INTERNAL SPLICE MEMBERS. THE INTERNAL SPLICE MEMBERS SHALL BE ONE 1 FOOT LENGTHS OF SQUARE STEEL TUBING INSERTED 6" INTO EACH UPRIGHT. THE EXTENSION SHALL THEN BE PLACED OVER THE TOP OF THE INTERNAL SPLICE MEMBER. THE EXTENSION AND INTERNAL SPLICE MEMBER SHALL BE HELD IN PLACE WITH ⅜" BOLTS WITH NUTS AND WASHERS PLACED 4"(±1") ABOVE AND BELOW THE JOINT FORMED BY THE EXTENSION. THE INTERNAL SPLICE MEMBERS SHALL BE ONE OF THE FOLLOWING SIZES DEPENDING UPON THE TUBING USED TO FABRICATE THE BARRICADE. GAUGES FOR SQUARE TUBES SHALL BE UNITED STATES STANDARD GAUGE.

BARRICADE MEMBERS	INTERNAL SPLICE MEMBERS
12 GAUGE 1⅜" X 1⅜"	12 GAUGE 1½" X 1½"
14 GAUGE 1⅜" X 1⅜"	14 GAUGE 1½" X 1½"
12 GAUGE 1½" X 1½"	12 GAUGE 1¼" X 1¼"

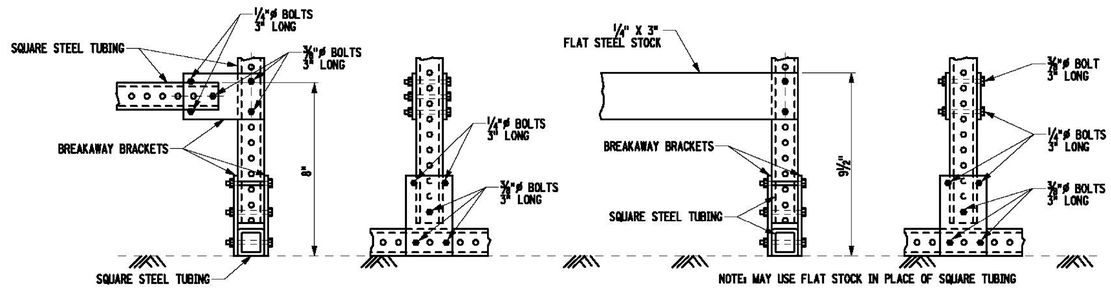
8. IF BARRICADES ARE USE TO TEMPORALLY CHANNELIZE PEDESTRIANS, THERE SHALL BE CONTINUOUS DETECTABLE BOTTOM AND TOP RAILS WITH NO GAP BETWEEN INDIVIDUAL BARRICADES, TO BE DETECTABLE TO BLIND OR VISUALLY IMPAIRED USERS OF LONG CANES. THE BOTTOM OF THE BOTTOM RAIL SHALL BE NO LOWER THAN 6" ABOVE THE GROUND SURFACE. THE TOP OF THE TOP RAIL SHALL BE NO LOWER THAN 3' ABOVE THE GROUND SURFACE.



BRACKET DETAIL



TYPE III CONSTRUCTION BARRICADE ALTERNATE "M"



ALTERNATE BRACKET DETAIL

NOTE: SQUARE STEEL TUBING SHALL MEET ONE OF THE FOLLOWING MATERIAL REQUIREMENTS:

12 GAUGE 1⅜" X 1⅜", ASTM A653
12 GAUGE 1½" X 1½", ASTM A653
14 GAUGE 1⅜" X 1⅜", ASTM A1011
ALL BOLTS ARE A325 OR EQUIVALENT BOLTS

NOTE: MAY USE FLAT STOCK IN PLACE OF SQUARE TUBING

EFFECTIVE DATE: 01/08/09

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY STANDARD SHEET

TYPE III CONSTRUCTION BARRICADES
(SHEET 2 OF 2)

APPROVED OCTOBER 06, 2008	ISSUED UNDER EB 08-036
/S/ J. F. TYNAN, P.E. DEPUTY CHIEF ENGINEER (CONSTRUCTION)	619-02

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FA PROJECT NO.
0911001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
NONE

ISSUE DATE
11/2018

STATE OF NEW YORK
STEVEN B. SCHMID
072857
LICENSED PROFESSIONAL ENGINEER

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
WORK ZONE TRAFFIC CONTROL DETAILS

DRAWING NO.
WZTC-02

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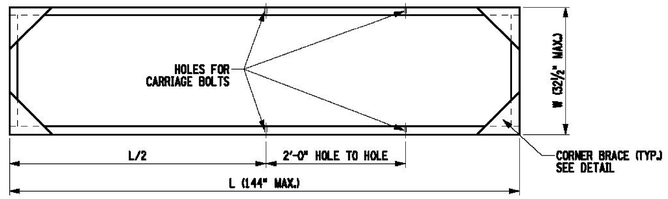
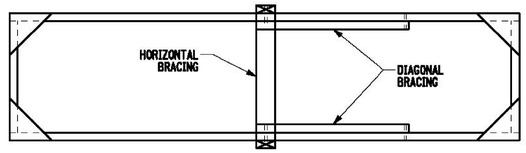
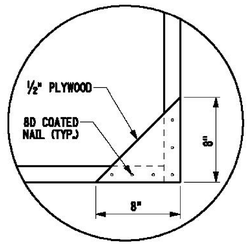


BOTTOM FRAME
TOP VIEW



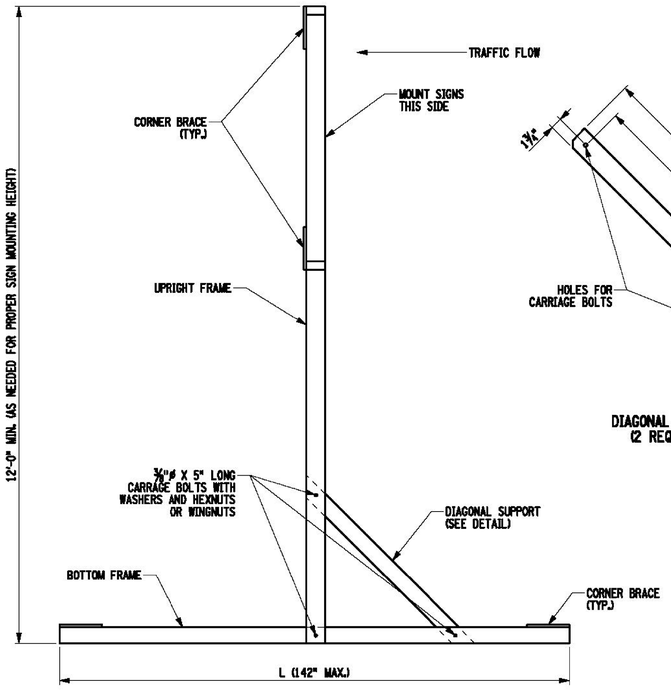
TEMPORARY WOODEN SIGN STAND
TOP VIEW



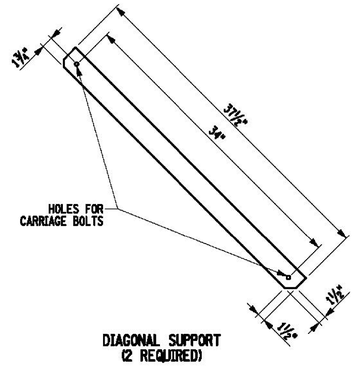
CORNER BRACE DETAIL
(TO BE USED ON UPRIGHT AND BOTTOM FRAMES)

NOTES:

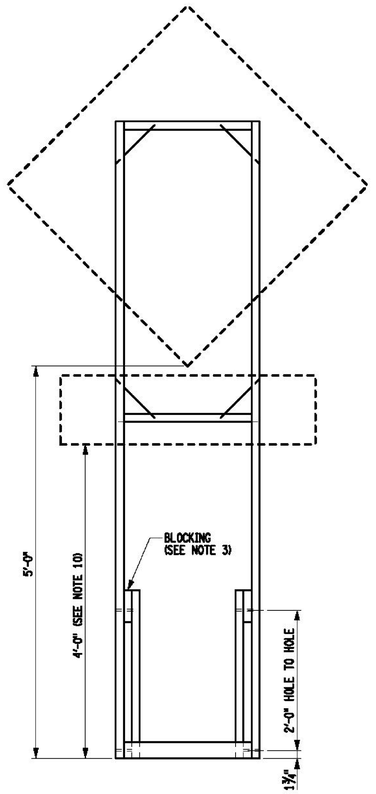
1. ALL LUMBER SHALL BE 2 X 4 DIMENSIONAL LUMBER. CONNECT FRAME MEMBERS WITH 2 EACH 12D COATED NAILS.
2. ALL HOLES SHALL BE DRILLED IN CENTERLINE OF FRAME MEMBERS AND DIAGONAL BRACES.
3. 6" BLOCK SPACER MAY BE USED BETWEEN DIAGONAL BRACE AND VERTICAL SUPPORT.
4. CONNECT FRAME CORNER BRACES TO FRAME MEMBERS WITH 6 EACH - 8D COATED NAILS. (3 NAILS INTO EACH FRAME MEMBER).
5. UPRIGHT FRAME MOUNTS ON THE OUTSIDE OF THE BOTTOM FRAME.
6. PAINT SIGN SUPPORT WITH 2 COATS OF WHITE PAINT.
7. DIAGONAL SUPPORTS MOUNT INSIDE BOTH UPRIGHT AND BOTTOM FRAMES. ALL UPRIGHT DIAGONAL BRACING SHALL BE SLOPED SUCH THAT BRACING COLLAPSES DOWNWARD UPON IMPACT BY A VEHICLE.
8. A SINGLE LAYER OF BALLAST PLACED ON THE BOTTOM FRAME MAY BE USED TO PREVENT SIGNS FROM TIPPING OVER FROM WIND AND VEHICLE GUSTS.
9. NO HORIZONTAL BRACING ALLOWED BETWEEN 2' AND 5' ON UPRIGHT VERTICALS, MEASURED FROM THE BOTTOM OF THE SKID BASE.
10. 5' MINIMUM SIGN MOUNTING HEIGHT, MEASURED FROM THE BOTTOM OF THE SKID BASE TO THE BOTTOM OF THE SIGN. VERTICAL SUPPORTS SHALL BE TALL ENOUGH TO ALLOW FOR HIGHER MOUNTING HEIGHTS FOR THOSE LOCATIONS REQUIRED BY THE MUTCD (I.E. SIDEWALKS, ROADSIDE PARKING AND EMBANKMENTS).
11. CONNECTIONS ALLOW FOR THE FOLDING, TRANSPORT AND STORAGE OF THE SUPPORT. WHEN FOLDED IN THE DOWN POSITION WITHIN THE CLEAR ZONE, THE MAXIMUM ASSEMBLY HEIGHT SHALL NOT EXCEED 4". SIMILAR NON-FOLDING SUPPORTS SHALL BE STORED OUTSIDE THE CLEAR ZONE OR BEHIND A BARRIER.
12. L = LENGTH OF BOTTOM FRAME.
    W = WIDTH OF BOTTOM FRAME.



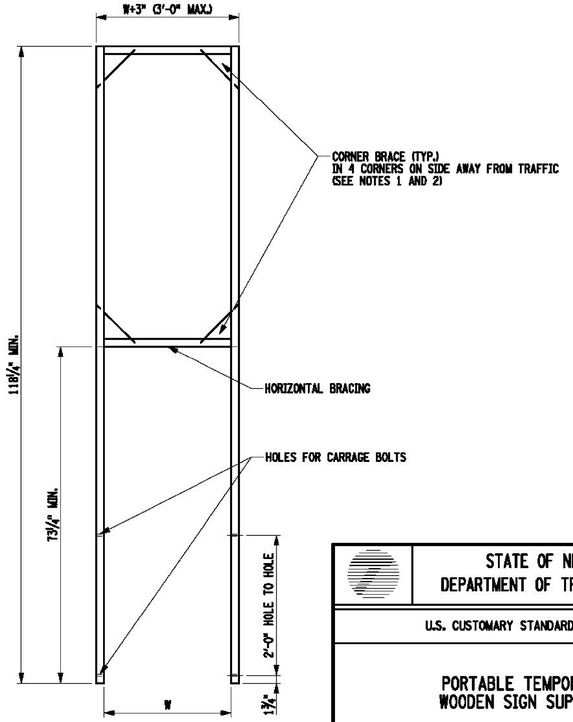
TEMPORARY WOODEN SIGN STAND
SIDE VIEW



DIAGONAL SUPPORT
(2 REQUIRED)



TEMPORARY WOODEN SIGN STAND
FRONT VIEW



UPRIGHT FRAME
FRONT VIEW

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY STANDARD SHEET

PORTABLE TEMPORARY
WOODEN SIGN SUPPORT

APPROVED OCTOBER 06, 2008	ISSUED UNDER EB 08-036
/S/ J. F. TYNAN, P.E. DEPUTY CHIEF ENGINEER (CONSTRUCTION)	619-04

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FA PROJECT NO.
091001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
WORK ZONE TRAFFIC CONTROL DETAILS

DRAWING NO.
WZTC-03

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GENERAL NOTES

1. THE TYPICAL DETAILS DEPICTED ON THE STANDARD SHEETS AND IN THE MUTCD, REFLECT THE MINIMUM REQUIREMENTS.

2. THE CONTRACTOR MUST SUBMIT TO THE ENGINEER, IN WRITING, PROPOSED REVISIONS TO THE TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE FIVE (5) WORK DAYS PRIOR TO THE PLANNED IMPLEMENTATION OF SUCH PROPOSED REVISIONS, EXCEPT FOR CHANGES THAT ALTER THE SCOPE OF THE TRAFFIC CONTROL PLAN. SUCH CHANGES IN SCOPE MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE THIRTY (30) WORKING DAYS PRIOR TO IMPLEMENTATION OF SUCH REVISIONS.

3. THE CONTRACTOR SHALL PROVIDE THE ENGINEER, IN WRITING, WITH THE NAMES, ADDRESSES, AND TELEPHONE NUMBERS OF STAFF WHO ARE AUTHORIZED TO SECURE LABOR, MATERIALS, AND EQUIPMENT FOR EMERGENCY REPAIRS OUTSIDE NORMAL WORKING HOURS. THE ENGINEER WILL PROVIDE THE SUBMITTED INFORMATION TO REGIONAL MANAGEMENT, THE NEW YORK STATE POLICE, THE RESIDENT ENGINEER, AND THE LOCAL POLICE.

ACTIVITY AREA

1. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 500' LONGITUDINAL DISTANCE BETWEEN CONSTRUCTION OPERATIONS ON ALTERNATE SIDES OF THE ROADWAY, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

2. WHEN TWO OR MORE AREAS ARE ADJACENT, OVERLAP, OR ARE IN CLOSE PROXIMITY, THE CONTRACTOR SHALL ENSURE THERE ARE NO CONFLICTING SIGNS AND THAT LANE CONTINUITY IS MAINTAINED THROUGHOUT ALL WORK AREAS.

SIGNS

1. THE LOCATIONS OF THE SIGNS SHOWN ON THE WORK ZONE TRAFFIC CONTROL PLANS AND DETAILS MAY BE ADJUSTED BASED ON SIGHT DISTANCE AND OTHER CONSIDERATIONS. THE FINAL LOCATIONS OF SIGNS ARE SUBJECT TO APPROVAL OF THE ENGINEER.

2. ANY EXISTING SIGNS, INCLUDING OVERHEAD SIGNS, WHICH CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL SIGN LAYOUT SHALL BE COVERED, REMOVED, STORED OR RESET, AS APPROVED BY THE ENGINEER. ALL APPROPRIATE EXISTING SIGNS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND/OR LOCATION UNLESS OTHERWISE REPLACED IN THIS CONTRACT.

3. SIGNS AT OR NEAR INTERSECTIONS SHALL BE PLACED SO THAT THEY DO NOT OBSTRUCT A MOTORIST'S LINE OF SIGHT.

4. ALL WARNING AND REGULATORY SIGNS SHALL BE POSTED ON BOTH SIDES OF MULTI-LANE DIVIDED HIGHWAYS, MULTI-LANE RAMPS, AND ONE-WAY STREETS. IN CASES WHERE LANE RESTRICTIONS REDUCE THE TRAVEL LANE TO ONE LANE, SIGNS SHALL BE POSTED ON THE RIGHT SIDE OF THE ACTIVE TRAVEL LANE, UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.

5. SIGNS MOUNTED ON THE MEDIAN OF DIVIDED HIGHWAYS WHERE MEDIAN BARRIER IS IN PLACE MAY BE MOUNTED ON THE BARRIER WITH A SADDLE TYPE BRACKET. LAYING THE SIGN DOWN IN A HORIZONTAL POSITION IS NOT PERMITTED.

6. THE DIMENSIONS OF WORK ZONE TRAFFIC CONTROL SIGNS ARE DESCRIBED IN THE MUTCD. ANY CHANGES TO THE DIMENSIONS SHALL BE APPROVED BY THE REGIONAL DIRECTOR OR BY HIS/HER DESIGNEE.

7. NYR9-12 MAY BE USED IN PLACE OF NYR9-11.

CHANNELIZING DEVICES

1. WHERE POSSIBLE ALL CHANNELIZING AND GUIDING DEVICES ARE TO BE PLACED SO AS TO PROVIDE A MINIMUM 2' LATERAL CLEARANCE TO THE TRAVELED WAY.

PUBLIC ACCESS

1. PROPERTY OWNERS WHOSE DRIVEWAYS WILL BE MADE INACCESSIBLE SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 24 HOURS PRIOR TO RESTRICTING USE OF THE DRIVEWAY. FOR MULTIPLE ACCESS PROPERTIES, AT LEAST ONE DRIVEWAY SHALL BE OPEN AT ALL TIMES. ACCESS SHALL BE RESTORED TO ALL DRIVEWAYS AS SOON AS POSSIBLE.

2. SUITABLE RAMPS SHALL BE INSTALLED TO MAINTAIN SMOOTH TRANSITIONS FROM RESIDENTIAL AND COMMERCIAL DRIVEWAYS TO AND FROM THE WORK AREA.

LANE CLOSURES

1. THE CONTRACTOR SHALL LOCATE LANE CLOSURES TO PROVIDE OPTIMUM VISIBILITY, I.E. BEFORE CURVES AND CRESTS, TO THE EXTENT CONDITIONS PERMIT.

2. THE ENGINEER MAY REQUIRE THAT ALL LANES BE RE-OPENED AT ANY TIME IF THE ROUTE IS NEEDED FOR EMERGENCY PURPOSES. THIS COULD INCLUDE INCIDENTS AT LOCATIONS OUTSIDE THE CONTRACT LIMITS.

LANE WIDTHS

1. UNLESS AUTHORIZED BY THE ENGINEER, THE MINIMUM LANE WIDTHS FOR WORK ZONE TRAVEL LANES SHALL BE AS FOLLOWS: FREEWAYS AND/OR EXPRESSWAYS IS 11'. THE MINIMUM LANE WIDTH FOR ALL OTHER TYPES OF ROADWAYS IS 10'.

2. THE CONTRACTOR SHALL PROVIDE A WRITTEN NOTICE TO THE ENGINEER, A MINIMUM OF 21 CALENDAR DAYS IN ADVANCE OF PERFORMING ANY WORK THAT RESULTS IN THE REDUCED WIDTH OF AN EXISTING ROADWAY, SO THAT THE ENGINEER MAY NOTIFY THE REGIONAL PERMIT ENGINEER IN A TIMELY MANNER.

BARRIER/SHADOW VEHICLES

1. BARRIER AND SHADOW VEHICLES SHALL BE REQUIRED AS PER STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES".

2. NO WORK ACTIVITY, EQUIPMENT, VEHICLES AND/OR MATERIALS SHALL BE LOCATED BETWEEN THE BARRIER OR SHADOW VEHICLE AND THE ACTIVE WORK AREA (ROLL AHEAD DISTANCE).

3. THE CONTRACTOR MAY BE REQUIRED TO PROVIDE A BARRIER VEHICLE IN CONJUNCTION WITH POLICE PRESENCE IN THE WORK ZONE, TO BE INCLUDED IN THE UNIT BID PRICE FOR BASIC WORK ZONE TRAFFIC CONTROL.

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STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY STANDARD SHEET

WORK ZONE TRAFFIC CONTROL
GENERAL NOTES

APPROVED SEPTEMBER 18, 2008

/S/ DAVID J. CLEMENTS, P.E.
DIRECTOR, OFFICE OF
TRAFFIC SAFETY AND MOBILITY

ISSUED UNDER EB 08-036

619-10

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PROJECT MANAGER
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DRAWN BY
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SCALE
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ISSUE DATE
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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
WORK ZONE TRAFFIC CONTROL DETAILS

DRAWING NO.
WZTC-04

SHEET 15 OF 110

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TABLE NY1-A
BARRIER VEHICLE USE REQUIREMENTS
(LONG TERM, INTERMEDIATE TERM, AND SHORT TERM STATIONARY CLOSURES)

CLOSURE TYPE	EXPOSURE CONDITION[1]	USE REQUIREMENTS[4,5]			
		FREEWAY	NON-FREEWAY (PRECONSTRUCTION POSTED SPEED LIMIT)		
			≥ 45 MPH	35-40 MPH	≤ 30 MPH
LANE CLOSURE	WORKERS ON FOOT OR IN VEHICLES EXPOSED TO TRAFFIC	REQUIRED[3]	REQUIRED[3]	REQUIRED[3]	OPTIONAL[2]
	NON-TRAVERSABLE HAZARD (IE. EQUIPMENT, MATERIALS, EXCAVATION) ONLY NO WORKERS EXPOSED	REQUIRED[3]	REQUIRED[3]	OPTIONAL[2]	OPTIONAL[2]
SHOULDER CLOSURE	WORKERS ON FOOT OR IN VEHICLES EXPOSED TO TRAFFIC	REQUIRED[3]	REQUIRED[3]	OPTIONAL[2]	OPTIONAL[2]
	NON-TRAVERSABLE HAZARD (IE. EQUIPMENT, MATERIALS, EXCAVATION) ONLY NO WORKERS EXPOSED	REQUIRED[3]	OPTIONAL[2]	OPTIONAL[2]	OPTIONAL[2]

1. THE EXPOSURE CONDITIONS DESCRIBED IN TABLE NY1-A ASSUMES THERE IS NO POSITIVE PROTECTION (TEMPORARY TRAFFIC BARRIER) PRESENT. WHERE WORKERS OR HAZARDS ARE PROTECTED BY A TEMPORARY TRAFFIC BARRIER, BARRIER VEHICLES ARE NOT REQUIRED.
2. WHERE THE REQUIREMENT IS "OPTIONAL", EITHER A BARRIER VEHICLE OR THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE 6C-2) SHALL BE PROVIDED.
3. REQUIREMENTS SHALL INCLUDE PROVIDING A SEPARATE BARRIER VEHICLE FOR EACH CLOSED LANE AND EACH CLOSED PAVED SHOULDER 8' OR GREATER IN WIDTH. IF THE WORK SPACE MOVES WITHIN THE STATIONARY CLOSURE, THE BARRIER VEHICLE SHALL BE REPOSITIONED ACCORDINGLY. BARRIER VEHICLES PROTECTING NON-TRANSVERSABLE HAZARDS SHALL REMAIN IN PLACE DURING BOTH WORKING AND NON-WORKING HOURS UNTIL THE HAZARD NO LONGER EXISTS. EXCEPTIONS TO THESE REQUIREMENTS MAY BE MADE, AS APPROVED BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE WHERE BARRIER VEHICLE PLACEMENT WOULD BE INEFFECTIVE OR WOULD INTERFERE WITH THE SAFE OPERATION OF TRAFFIC.
4. BARRIER VEHICLES ARE NOT REQUIRED FOR MILLING AND/OR PAVING OPERATIONS, BUT THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE 6C-2) SHALL BE PROVIDED.
5. BARRIER VEHICLES ARE NOT REQUIRED FOR FLAGGING OPERATIONS, BUT THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE6C-2) SHALL BE PROVIDED.

TABLE NY1-B
SHADOW VEHICLE USE REQUIREMENTS
(MOBILE CLOSURES)

CLOSURE TYPE	EXPOSURE CONDITION	USE REQUIREMENTS			
		FREEWAY	NON-FREEWAY (PRECONSTRUCTION POSTED SPEED LIMIT)		
			≥ 45 MPH	35-40 MPH	≤ 30 MPH
LANE CLOSURE	WHEN ANY WORKER, VEHICLE, OR OTHER HAZARD IS EXPOSED TO TRAFFIC	REQUIRED[2,4]	REQUIRED[2,4]	REQUIRED[2,4]	REQUIRED[2,4]
SHOULDER CLOSURE	WHEN ANY WORKER, VEHICLE, OR OTHER HAZARD IS EXPOSED TO TRAFFIC	REQUIRED[2,4]	REQUIRED[2,4]	REQUIRED[2,4]	REQUIRED[2,4]

1. A MOBILE CLOSURE SHALL BE USED FOR ANY WORK ACTIVITY THAT MOVES CONTINUOUSLY OR INTERMITTENTLY ALONG THE TRAVELED WAY OR SHOULDER SLOWER THAN THE PREVAILING SPEED OF TRAFFIC. CHANNELIZING DEVICES ARE NOT USED FOR MOBILE CLOSURES.
2. SHADOW VEHICLES SHALL BE EQUIPPED WITH AN APPROVED REAR MOUNTED ATTENUATOR (TRUCK MOUNTED OR TRAILER MOUNTED) FOR THE FOLLOWING MOBILE CLOSURES: LANE CLOSURES ON FREEWAYS, LANE CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION POSTED SPEED LIMIT OF 35 MPH OR MORE, SHOULDER CLOSURES ON FREEWAYS, AND SHOULDER CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE.
3. FOR MOBILE LANE CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION POSTED SPEED LIMIT OF 30 MPH OR LESS AND MOBILE SHOULDER CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION SPEED LIMIT OF 40 MPH OR LESS, SHADOW VEHICLES ARE NOT REQUIRED TO BE EQUIPPED WITH A REAR MOUNTED ATTENUATOR.
4. A SHADOW VEHICLE IS USED TO PROTECT EXPOSED WORKERS (ON FOOT OR IN A VEHICLE) AND SHALL BE REQUIRED FOR ALL MOBILE CLOSURES. SHADOW VEHICLE REQUIREMENTS SHALL INCLUDE PROVIDING A SEPARATE SHADOW VEHICLE FOR EACH CLOSED LANE AND EACH CLOSED PAVED SHOULDER 8' OR GREATER IN WIDTH. ADDITIONAL SHADOW VEHICLES MAY BE REQUIRED TO PROMOTE THE SAFE OPERATION OF TRAFFIC AND THE INCREASED PROTECTION OF EXPOSED WORKERS, AS DIRECTED BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE.

TABLE 6H-4 FORMULAS FOR DETERMINING TAPER LENGTHS

SPEED LIMIT (S) (MPH)	TAPER LENGTH (L) (FT.)
(40 MPH) OR LESS	$L = WS^2/60$
(45 MPH) OR MORE	$L = WS$

L = TAPER LENGTH
W = WIDTH OF OFFSET (FT.)
S = PRECONSTRUCTION POSTED SPEED LIMIT (MPH)

STANDARD TAPER LENGTHS

LATERAL SHIFT OF TRAFFIC FLOW PATH	TEMPORARY TRAFFIC CONTROL ZONE POSTED SPEED LIMIT									
	(25 MPH)	(30 MPH)	(35 MPH)	(40 MPH)	(45 MPH)	(50 MPH)	(55 MPH)	(60 MPH)	(65 MPH)	(70 MPH)
4	45	60	85	110	180	200	220	240	260	280
5	55	75	105	135	225	250	275	300	325	350
6	65	90	125	160	270	300	330	360	390	420
7	75	105	145	190	315	350	385	420	455	490
8	85	120	165	215	360	400	440	480	520	560
9	95	135	185	240	405	450	495	540	585	630
10	105	150	205	270	450	500	550	600	650	700
11	115	165	225	295	495	550	605	660	715	770
12	125	180	245	320	540	600	660	720	780	840

TABLE 6C-3
TAPER LENGTH FOR TEMPORARY TRAFFIC CONTROL ZONES

TYPE OF TAPER	TAPER LENGTH (L)
MERGING TAPER	L
SHIFTING TAPER	L/2
SHOULDER TAPER	L/3
ONE-LANE, TWO-WAY TRAFFIC TAPER	100 FT. MAXIMUM
DOWNSTREAM TAPER	100 FT. PER LANE

TABLE 6C-2
LONGITUDINAL BUFFER SPACE

PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	DISTANCE
25	155 FT.
30	200 FT.
35	250 FT.
40	305 FT.
45	360 FT.
50	425 FT.
55	495 FT.
60	570 FT.
65	645 FT.

TABLE NY2-A
PLACEMENT DISTANCE FOR BARRIER VEHICLES

PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	PLACEMENT DISTANCE (FT.) BARRIER VEHICLES*			
	(18000 LBS.)		(24000 LBS.)	
	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM
> 55	100 FT.	200 FT.	100 FT.	200 FT.
45 - 55	100 FT.	200 FT.	85 FT.	165 FT.
< 45	85 FT.	165 FT.	50 FT.	100 FT.

* AS DEFINED IN NYSDOT STANDARD SPECIFICATION 619:

BARRIER VEHICLE - VEHICLE USED FOR STATIONARY SHOULDER CLOSURES, LANE CLOSURES, AND OTHER STATIONARY WORK ZONES.

MINIMUM DISTANCE SHOWN REFLECTS THE ACTUAL ROLL AHEAD DISTANCE FROM MANUFACTURER.

TABLE NY2-B
PLACEMENT DISTANCE FOR SHADOW VEHICLES

PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	PLACEMENT DISTANCE (FT.) SHADOW VEHICLES**			
	(18000 LBS.)		(24000 LBS.)	
	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM
> 55	230 FT.	330 FT.	180 FT.	280 FT.
45 - 55	180 FT.	280 FT.	150 FT.	250 FT.
< 45	100 FT.	200 FT.	100 FT.	200 FT.

* AS DEFINED IN NYSDOT STANDARD SPECIFICATION 619:

SHADOW VEHICLE - VEHICLE USED FOR MOBILE OR SHORT DURATION WORK OPERATIONS.

MINIMUM DISTANCE SHOWN REFLECTS THE ACTUAL ROLL AHEAD DISTANCE FROM MANUFACTURER.

TABLE 619-4
FLARE RATES FOR POSITIVE BARRIER

TYPE OF POSITIVE BARRIER	POSTED SPEED LIMIT				
	30 MPH	40 MPH	50 MPH	55 MPH	65 MPH
TEMPORARY CONCRETE BARRIER	8:1	11:1	14:1	16:1	20:1
BOX BEAM OR HEAVY POST CORRUGATED BEAM	7:1	9:1	11:1	12:1	15:1

TABLE NY6H-3
ADVANCE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS			SIGN LEGEND	
	A (FT.)	B (FT.)	C (FT.)	XX	YY
URBAN (≤ 30 MPH*)	100	100	100	AHEAD	AHEAD
URBAN (35-40 MPH*)	200	200	200	AHEAD	AHEAD
URBAN (≥ 45 MPH*)	350	350	350	1000 FT.	AHEAD
RURAL	500	500	500	1500 FT.	1000 FT.
EXPRESSWAY / FREEWAY	1000	1500	2640	1 MILE	½ MILE

* PRECONSTRUCTION POSTED SPEED LIMIT

URBAN: MEETS MORE THAN 1 OF THE FOLLOWING CRITERIA) SIDEWALKS, BICYCLE USAGE, CURBING, CLOSED DRAINAGE SYSTEMS, DRIVEWAY DENSITIES GREATER THAN 24 DRIVEWAYS PER MILE, MINOR COMMERCIAL DRIVEWAY DENSITIES OF 10 DRIVEWAYS PER MILE OR GREATER, MAJOR COMMERCIAL DRIVEWAYS, NUMEROUS RIGHT OF WAY CONSTRAINTS, HIGH DENSITY OF CROSS STREETS, 85TH PERCENTILE SPEEDS OF 45 MPH OR LESS.

RURAL: ANY AREA NOT EXHIBITING MORE THAN ONE OF THE ABOVE CHARACTERISTICS.

EXPRESSWAY: DIVIDED HIGHWAYS FOR TRAFFIC WITH FULL OR PARTIAL CONTROL OF ACCESS AND GENERALLY WITH GRADE SEPARATIONS AT MAJOR CROSSROADS.

FREEWAYS/INTERSTATE: LOCAL OR INTER REGIONAL HIGH-SPEED, DIVIDED, HIGH-VOLUME FACILITIES WITH FULL OR PARTIAL CONTROL OF ACCESS.

WORK DURATION DEFINITIONS

LONG-TERM STATIONARY IS WORK THAT OCCUPIES A LOCATION MORE THAN 3 CONSECUTIVE DAYS.

INTERMEDIATE-TERM STATIONARY IS WORK THAT OCCUPIES A LOCATION MORE THAN ONE DAYLIGHT PERIOD UP TO 3 CONSECUTIVE DAYS, OR NIGHTTIME WORK LASTING MORE THAN 1 HOUR.

SHORT-TERM STATIONARY IS DAYTIME WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR WITHIN A SINGLE DAYLIGHT PERIOD.

SHORT DURATION IS WORK THAT OCCUPIES A LOCATION UP TO 1 HOUR.

MOBILE IS WORK THAT MOVES INTERMITTENTLY OR CONTINUOUSLY.

WORK ZONE TRAFFIC CONTROL LEGEND

SYMBOL	DESCRIPTION
	ARROW PANEL
	ARROW PANEL, CAUTION MODE
	ARROW PANEL TRAILER OR SUPPORT
	CHANGEABLE MESSAGE SIGN (PVMS)
	CHANNELIZING DEVICE
	CRASH CUSHION/TEMPORARY IMPACT ATTENUATOR
	DIRECTION OF TEMPORARY TRAFFIC DETOUR
	DIRECTION OF TRAFFIC
	FLAGGER
	FLAG TREE
	LUMINAIRE
	PAVEMENT MARKINGS THAT SHALL BE REMOVED FOR A LONG TERM PROJECT
	SIGN, TEMPORARY
	TEMPORARY BARRIER
	TEMPORARY BARRIER WITH WARNING LIGHTS
	TRAFFIC OR PEDESTRIAN SIGNAL
	TYPE III BARRICADE
	WARNING LIGHTS
	WORK SPACE
	WORK VEHICLE
	WORK VEHICLE WITH TRUCK MOUNTED ATTENUATOR

EFFECTIVE DATE: 01/08/09

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY STANDARD SHEET

WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES

APPROVED SEPTEMBER 18, 2008
/S/ DAVID J. CLEMENTS, P.E.
DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY

ISSUED UNDER EB 08-036
619-11

REV	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2			
1			

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FA PROJECT NO.
0911001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
NONE

ISSUE DATE
11/2018

STATE OF NEW YORK · STEVEN B. SCHMID · 072857 · LICENSED PROFESSIONAL ENGINEER

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
WORK ZONE TRAFFIC CONTROL DETAILS

DRAWING NO.
WZTC-05

SHEET 16 OF 110

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USER = jburley

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11/16/2018 10:54:06 AM
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WORK ZONE TRAFFIC CONTROL SIGN TABLE

SIGN	SIGN DESIGNATION	COLOR CODE	CONVENTIONAL ROAD	EXPRESSWAY	FREEWAY
EXIT	E5-1	C	-------	72"X60"	72"X60"
ROAD WORK NEXT X MILES	G20-1	A	36"X18"	48"X24"	48"X24"
END ROAD WORK	G20-2	A	36"X18"	48"X24"	48"X24"
PLOT CAR FOLLOW ME	G20-4	A	36"X18"	-------	-------
WORK ZONE	G20-5aP	A	24"X18"	36"X24"	36"X24"
X XX	M1-1	G	1 OR 2 DIGITS 24"X24"	36"X36"	36"X36"
XXX	M1-1†	G	3 DIGITS 30"X24"	45"X36"	45"X36"
X XX	M1-4	B	1 OR 2 DIGITS 24"X24"	36"X36"	36"X36"
XXX	M1-4†	B	3 DIGITS 30"X24"	45"X36"	45"X36"
NORTH	M3-1	SEE NOTE 3	24"X12"	36"X18"	36"X18"
EAST	M3-2				
SOUTH	M3-3				
WEST	M3-4				
DETOUR	M4-8	A	24"X12"	36"X18"	36"X18"
END DETOUR	M4-8a	A	24"X18"	24"X18"	24"X18"
DETOUR DETOUR DETOUR	M4-9 M4-9L M4-9R	A	30"X24"	48"X36"	48"X36"
DETOUR DETOUR	M4-9a	A	30"X24"	30"X24"	-------
DETOUR DETOUR	M4-9b	A	30"X24"	30"X24"	-------
DETOUR DETOUR	M4-9c	A	30"X24"	30"X24"	-------
DETOUR	M4-10L	A	48"X18"	48"X18"	48"X18"
DETOUR	M4-10R				
	M5-1	SEE NOTE 3	21"X15"	30"X21"	30"X21"
	M5-2	SEE NOTE 3	21"X15"	30"X21"	30"X21"
	M6-1	SEE NOTE 3	21"X15"	30"X21"	30"X21"
	M6-2				
	M6-3				
	M6-4				
X XX	NYM3-1	B	24"X24"	36"X36"	36"X36"
XXX	NYM3-2	B	30"X24"	45"X36"	45"X36"
XXXA	NYM3-3	B	30"X24"	45"X36"	45"X36"

WORK ZONE TRAFFIC CONTROL SIGN TABLE

SIGN	SIGN DESIGNATION	COLOR CODE	CONVENTIONAL ROAD	EXPRESSWAY	FREEWAY
LICENSE SUSPENDED AFTER TWO WORK ZONE SPEEDING TICKETS	NYR9-11	B	24"X42"	48"X84"	48"X84"
FINES DOUBLED FOR SPEEDING IN WORK ZONES	NYR9-12	B	24"X36"	36"X54"	48"X72"
RUMBLE STRIPS	NYW4-17	A	36"X36"	48"X48"	48"X48"
WET PAINT	NYW8-30	A	48"X24"	48"X24"	48"X24"
STAY IN LANE	NYW8-31	A	48"X24"	48"X24"	48"X24"
DO NOT PASS	NYW8-32	A	48"X24"	48"X24"	48"X24"
LANE CLOSED	NYW8-33	A	48"X24"	48"X24"	48"X24"
STOP	R1-1	D	36"X36"	36"X36"	48"X48"
YIELD	R1-2	E	36"X36"X36"	48"X48"X48"	60"X60"X60"
SPEED LIMIT XX	R2-1	B	24"X30" OR 30"X36" (SEE NOTE 5)	36"X48"	36"X48"
END HIGHER FINES ZONE	R2-11	B	24"X30"	36"X48"	36"X48"
END WORK ZONE SPEED LIMIT	R2-12	B	24"X36"	36"X54"	36"X54"
DO NOT PASS	R4-1	B	24"X30"	36"X48"	36"X48"
	R4-7	B	24"X30"	36"X48"	36"X48"
	R4-7a NARROW	B	18"X30"	-------	-------
	R4-8	B	24"X30"	36"X48"	36"X48"
	R4-8a NARROW	B	18"X30"	-------	-------
STAY IN LANE	R4-9	B	24"X30"	36"X48"	36"X48"
	R5-1	E	36"X36"	36"X36"	48"X48"
PEDESTRIAN CROSSWALK	R9-8	B	36"X18"	36"X18"	-------
SIDEWALK CLOSED	R9-9	B	24"X12"	24"X12"	-------
SIDEWALK CLOSED USE OTHER SIDE / SIDEWALK CLOSED USE OTHER SIDE	R9-10L R9-10R	B	24"X12"	24"X12"	-------
SIDEWALK CLOSED AHEAD CROSS HERE / SIDEWALK CLOSED AHEAD CROSS HERE	R9-11L R9-11R	B	24"X18"	24"X18"	-------
SIDEWALK CLOSED CROSS HERE / SIDEWALK CLOSED CROSS HERE	R9-11aL R9-11aR	B	24"X12"	24"X12"	-------
STOP WHEN FLASHING RED	R10-6	B	24"X36"	24"X36"	-------
ROAD CLOSED	R11-2	B	48"X30"	48"X30"	48"X30"

WORK ZONE TRAFFIC CONTROL SIGN TABLE

SIGN	SIGN DESIGNATION	COLOR CODE	CONVENTIONAL ROAD	EXPRESSWAY	FREEWAY
ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY	R11-3a	B	60"X30"	60"X30"	-------
	W1-4L W1-4R	A	36"X36"	48"X48"	48"X48"
	W1-4bL W1-4bR	A	36"X36"	48"X48"	48"X48"
	W1-4cL W1-4cR	A	36"X36"	48"X48"	48"X48"
	W1-6L	A	48"X24"	60"X30"	60"X30"
	W1-6R	A			
	W1-8L	A (NO BORDER)	18"X24"	30"X36"	30"X36"
	W1-8R	A (NO BORDER)			
	W3-1	A[4]	36"X36"	48"X48"	48"X48"
	W3-2	A[4]	36"X36"	48"X48"	48"X48"
	W3-3	A[4]	36"X36"	48"X48"	48"X48"
BE PREPARED TO STOP	W3-4	A	36"X36"	48"X48"	48"X48"
SPEED LIMIT XX	W3-5	A[4]	36"X36"	48"X48"	48"X48"
	W4-1L W4-1R	A	36"X36"	48"X48"	48"X48"
	W4-2L W4-2R	A	36"X36"	48"X48"	48"X48"

ROADWAY DEFINITIONS:

CONVENTIONAL ROAD - A STREET OR HIGHWAY OTHER THAN A FREEWAY, OR EXPRESSWAY.

EXPRESSWAY - A DIVIDED HIGHWAY WITH PARTIAL CONTROL OF ACCESS.

FREEWAY - A DIVIDED HIGHWAY WITH FULL CONTROL OF ACCESS.

COLOR CODE LEGEND

CODE	DESCRIPTION
A	BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND
B	BLACK LEGEND AND BORDER ON A WHITE BACKGROUND
C	WHITE LEGEND AND BORDER ON A GREEN BACKGROUND
D	WHITE LEGEND AND BORDER ON A RED BACKGROUND
E	RED LEGEND AND BORDER ON A WHITE BACKGROUND
F	BLACK LEGEND AND BORDER ON A FLOURESCENT YELLOW GREEN BACKGROUND
G	WHITE LEGEND AND BORDER ON A BLUE AND RED BACKGROUND

NOTES:

1. DIMENSIONS ARE SHOWN AS WIDTH X HEIGHT.
2. FOR SIGNAGE NOT SHOWN ON THESE TABLES REFER TO THE M.U.T.C.D.
3. COLORS FOR DIRECTION PLAQUES, ADVANCE TURN ARROWS, AND DIRECTIONAL ARROWS SHALL MATCH THE ROUTE OR INTERSTATE SIGN THAT THEY SUPPLEMENT AS PER THE M.U.T.C.D.
4. MULTICOLORED SYMBOL IMPOSED ON SIGN WITH BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND.
5. FOR R2-1 SIGN LARGER DIMENSIONS SHALL BE USED WHEN SIGN FACES MULTIPLE LANES ON A CONVENTIONAL ROAD.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY STANDARD SHEET

SIGN TABLE
(SHEET 1 OF 2)

APPROVED APRIL 1, 2012	ISSUED UNDER EB 12-010
/S/ TODD WESTHUIS, P.E. DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY	619-12

EFFECTIVE DATE: 05/03/2012

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0911001
PROJECT MANAGER
R. SCHMID
DRAWN BY
C. PERKINS
SCALE
NONE
ISSUE DATE
11/2018

STATE OF NEW YORK * EVAN B. SCHMID * 071857 * LICENSED PROFESSIONAL ENGINEER

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
WORK ZONE TRAFFIC CONTROL DETAILS

DRAWING NO.
WZTC-06

SHEET 17 OF 110

WORK ZONE TRAFFIC CONTROL SIGN TABLE

SIGN	SIGN DESIGNATION	COLOR CODE	CONVENTIONAL ROAD	EXPRESSWAY	FREEWAY
ROAD NARROWS	W5-1	A	36"X36"	48"X48"	48"X48"
RAMP NARROWS	W5-4	A	36"X36"	48"X48"	48"X48"
	W6-3	A	36"X36"	48"X48"	48"X48"
NEXT X MILES	W7-3aP	A	24"X18"	36"X30"	36"X30"
BUMP	W8-1	A	36"X36"	48"X48"	48"X48"
PAVEMENT ENDS	W8-3	A	36"X36"	48"X48"	48"X48"
LOOSE GRAVEL	W8-7	A	36"X36"	48"X48"	48"X48"
ROUGH ROAD	W8-8	A	36"X36"	48"X48"	48"X48"
LOW SHOULDER	W8-9	A	36"X36"	48"X48"	48"X48"
NO CENTER LINE	W8-12	A	36"X36"	———	———
FALLEN ROCKS	W8-14	A	36"X36"	48"X48"	48"X48"
GROOVED PAVEMENT	W8-15	A	36"X36"	48"X48"	48"X48"
	W8-17	A	36"X36"	48"X48"	48"X48"
SHOULDER DROP-OFF	W8-17p	A	24"X18"	30"X24"	30"X24"
NO SHOULDER	W8-23	A	36"X36"	48"X48"	48"X48"
STEEL PLATE OR PAVEMENT	W8-24	A	36"X36"	48"X48"	48"X48"
CENTER LANE CLOSED AHEAD	W9-3	A	36"X36"	48"X48"	48"X48"
	W11-1L W11-1R	A OR F	36"X36"	36"X36"	———
	W11-2L W11-2R	F	36"X36"	36"X36"	———
	W11-15L W11-15R	F	36"X36"	36"X36"	———

WORK ZONE TRAFFIC CONTROL SIGN TABLE

SIGN	SIGN DESIGNATION	COLOR CODE	CONVENTIONAL ROAD	EXPRESSWAY	FREEWAY
XX MPH	W13-1P	A	24"X24"	30"X30"	30"X30"
ON RAMP	W14-3	A	36"X36"	36"X36"	36"X36"
NO PASSING ZONE	W13-4P	A	48"X48"X36"	———	———
SHARE THE ROAD	W16-1P	SEE NOTE 3 A OR F	18"X24"	24"X30"	———
XXX FEET	W16-2P	A	24"X18"	30"X24"	———
NEXT XXX FT	W16-4P	SEE NOTE 3 A OR F	30"X24"	———	———
	W16-5PL W16-5PR	A	24"X18"	———	———
	W16-7PL W16-7PR	SEE NOTE 3 A OR F	24"X12"	30"X18"	———
AHEAD	W16-9P	SEE NOTE 3 A OR F	24"X12"	30"X18"	———
ROAD WORK AHEAD / ROAD WORK XXX FT / ROAD WORK X MILE	W20-1	A	36"X36"	48"X48"	48"X48"
DETOUR AHEAD / DETOUR XXX FT / DETOUR X MILE	W20-2	A	36"X36"	48"X48"	48"X48"
ROAD CLOSED AHEAD / ROAD CLOSED XXX FT / ROAD CLOSED X MILE	W20-3	A	36"X36"	48"X48"	48"X48"
ONE LANE ROAD AHEAD / ONE LANE ROAD XXX FT / ONE LANE ROAD X MILE	W20-4	A	36"X36"	48"X48"	48"X48"
LEFT LANE CLOSED AHEAD / LEFT LANE CLOSED 1500 FT / LEFT LANE CLOSED 1 MILE / RIGHT LANE CLOSED AHEAD / RIGHT LANE CLOSED 1500 FT / RIGHT LANE CLOSED 1 MILE	W20-5	A	36"X36"	48"X48"	48"X48"
2 LEFT LANES CLOSED AHEAD / 2 LEFT LANES CLOSED XXX FT / 2 LEFT LANES CLOSED X MILE / 2 RIGHT LANES CLOSED AHEAD / 2 RIGHT LANES CLOSED XXX FT / 2 RIGHT LANES CLOSED X MILE	W20-5a	A	36"X36"	48"X48"	48"X48"
	W20-7	A	36"X36"	48"X48"	48"X48"

WORK ZONE TRAFFIC CONTROL SIGN TABLE

SIGN	SIGN DESIGNATION	COLOR CODE	CONVENTIONAL ROAD	EXPRESSWAY	FREEWAY
	W21-1	A	36"X36"	48"X48"	48"X48"
SLOW MOVING VEHICLE	W21-4	A	36"X18"	48"X24"	48"X24"
SHOULDER WORK	W21-5	A	36"X36"	48"X48"	48"X48"
LEFT SHOULDER CLOSED / RIGHT SHOULDER CLOSED	W21-5aL W21-5aR	A	36"X36"	48"X48"	48"X48"
LEFT SHOULDER CLOSED AHEAD / LEFT SHOULDER CLOSED XXX FT / LEFT SHOULDER CLOSED X MILE / RIGHT SHOULDER CLOSED AHEAD / RIGHT SHOULDER CLOSED XXX FT / RIGHT SHOULDER CLOSED X MILE	W21-5bL W21-5bR	A	36"X36"	48"X48"	48"X48"
MOWING AHEAD	W21-8	A	36"X36"	48"X48"	48"X48"
BLASTING ZONE AHEAD / BLASTING ZONE 5000 FT / BLASTING ZONE 1/2 MILE	W22-1	A	36"X36"	48"X48"	48"X48"
TURN OFF 2-WAY RADIO AND CELL PHONE	W22-2	A	42"X36"	42"X36"	42"X36"
END BLASTING ZONE	W22-3	A	42"X36"	42"X36"	42"X36"
NEW TRAFFIC PATTERN AHEAD	W23-2	A	36"X36"	48"X48"	48"X48"
	W24-1L W24-1R	A	36"X36"	48"X48"	48"X48"
	W24-1aL W24-1aR	A	36"X36"	48"X48"	48"X48"
	W24-1bL W24-1bR	A	36"X36"	48"X48"	48"X48"

ROADWAY DEFINITIONS:

CONVENTIONAL ROAD - A STREET OR HIGHWAY OTHER THAN A FREEWAY, OR EXPRESSWAY.

EXPRESSWAY - A DIVIDED HIGHWAY WITH PARTIAL CONTROL OF ACCESS.

FREEWAY - A DIVIDED HIGHWAY WITH FULL CONTROL OF ACCESS.

COLOR CODE LEGEND

CODE	DESCRIPTION
A	BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND
B	BLACK LEGEND AND BORDER ON A WHITE BACKGROUND
C	WHITE LEGEND AND BORDER ON A GREEN BACKGROUND
D	WHITE LEGEND AND BORDER ON A RED BACKGROUND
E	RED LEGEND AND BORDER ON A WHITE BACKGROUND
F	BLACK LEGEND AND BORDER ON A FLOURESCENT YELLOW GREEN BACKGROUND
G	WHITE LEGEND AND BORDER ON A BLUE AND RED BACKGROUND

NOTES:

1. DIMENSIONS ARE SHOWN AS WIDTH X HEIGHT.
2. FOR SIGNAGE NOT SHOWN ON THESE TABLES REFER TO THE M.U.T.C.D.
3. WHEN USED IN CONJUNCTION WITH A BICYCLE SIGN (W11-1) OR PEDESTRIAN CROSSING (W11-2) COLOR CODE SHALL MATCH.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY STANDARD SHEET

SIGN TABLE
(SHEET 2 OF 2)

APPROVED APRIL 1, 2012

/S/ TODD WESTHUIS, P.E.
DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY

ISSUED UNDER EB 12-010

619-12

EFFECTIVE DATE: 05/03/2012

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
0911001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
NONE

ISSUE DATE
11/2018

STATE OF NEW YORK * STEVEN B. SCHMID * 072857 * LICENSED PROFESSIONAL ENGINEER

FISHER ASSOCIATES
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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
WORK ZONE TRAFFIC CONTROL DETAILS

DRAWING NO.
WZTC-07

SHEET 18 OF 110

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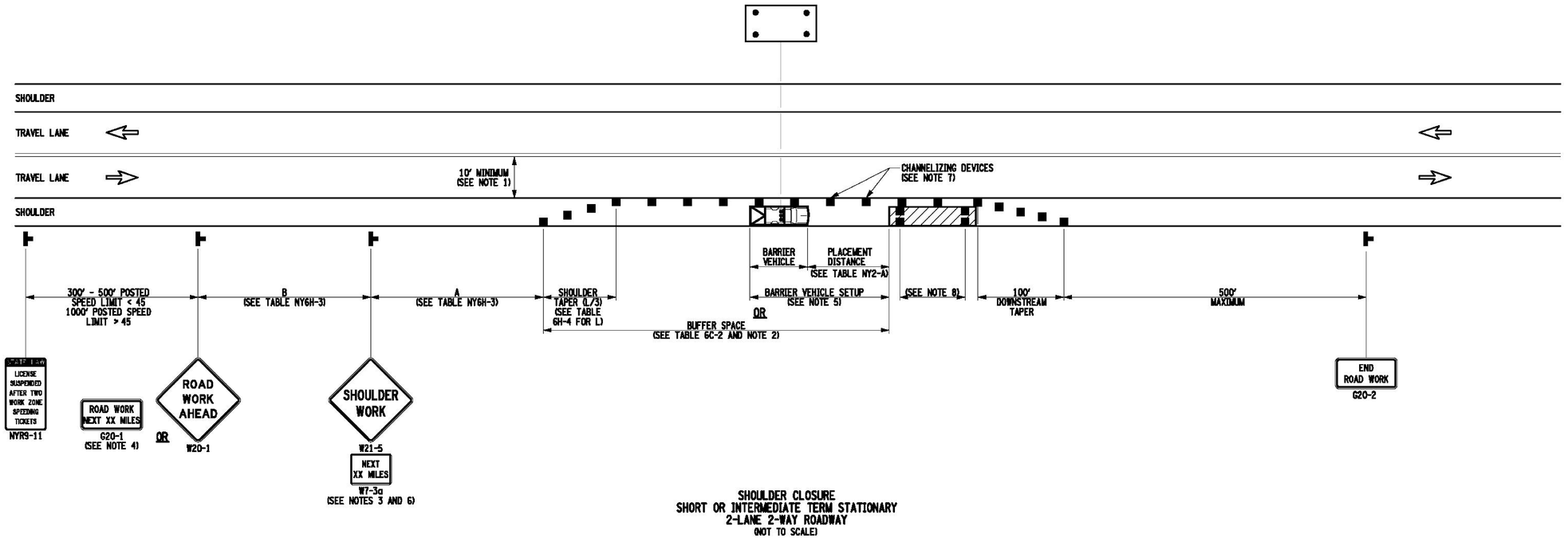

SHOULDER CLOSURE
SHORT OR INTERMEDIATE TERM STATIONARY
2-LANE 2-WAY ROADWAY
(NOT TO SCALE)

NOTES:

1. WHEN THE MINIMUM LANE WIDTH OF 10' CANNOT BE MAINTAINED DUE TO A SHOULDER CLOSURE, USE THE DETAIL FOR SHORT OR INTERMEDIATE TERM STATIONARY FLAGGING OPERATION.
2. NO WORK ACTIVITY OR STORAGE OF EQUIPMENT, VEHICLES, OR MATERIAL SHOULD OCCUR WITHIN A BUFFER SPACE.
3. WHEN THE DISTANCE BETWEEN THE ADVANCE WARNING SIGNS AND WORK IS 2 MILES TO 5 MILES, A SUPPLEMENTAL DISTANCE PLAQUE (W7-3a) SHOULD BE USED WITH THE SHOULDER WORK SIGN (W21-5).
4. THE ROAD WORK NEXT XX MILES SIGN (G20-1) MAY BE USED INSTEAD OF THE ROAD WORK AHEAD SIGN (W20-1) IF WORK LOCATIONS OCCUR OVER A DISTANCE OF MORE THAN 2 MILES.
5. FOR BARRIER VEHICLE USE REQUIREMENTS SEE TABLES NY1-A AND NY2-A ON THE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES".
6. IN THOSE SITUATIONS WHERE MULTIPLE WORK LOCATIONS EXIST WITHIN A LIMITED DISTANCE MAKE IT PRACTICAL TO PLACE STATIONARY SIGNS, THE DISTANCE BETWEEN THE ADVANCE WARNING SIGN AND WORK SHALL NOT EXCEED 5 MILES.
7. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.
8. TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 1500'.

NOTE: SEE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES" FOR LEGEND OF SYMBOLS AND/OR LETTER CODES USED IN THIS DRAWING.

EFFECTIVE DATE: 01/07/10

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY STANDARD SHEET

SHOULDER CLOSURE
2-LANE 2-WAY ROADWAY

APPROVED SEPTEMBER 15, 2009
/S/ DAVID J. CLEMENTS, P.E.
DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY

ISSUED UNDER EB 09-025
619-20

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FA PROJECT NO.
0910001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
NONE

ISSUE DATE
11/2018

STATE OF NEW YORK * JOSEPH B. SCHMID * 072857 * LICENSED PROFESSIONAL ENGINEER

FISHER ASSOCIATES
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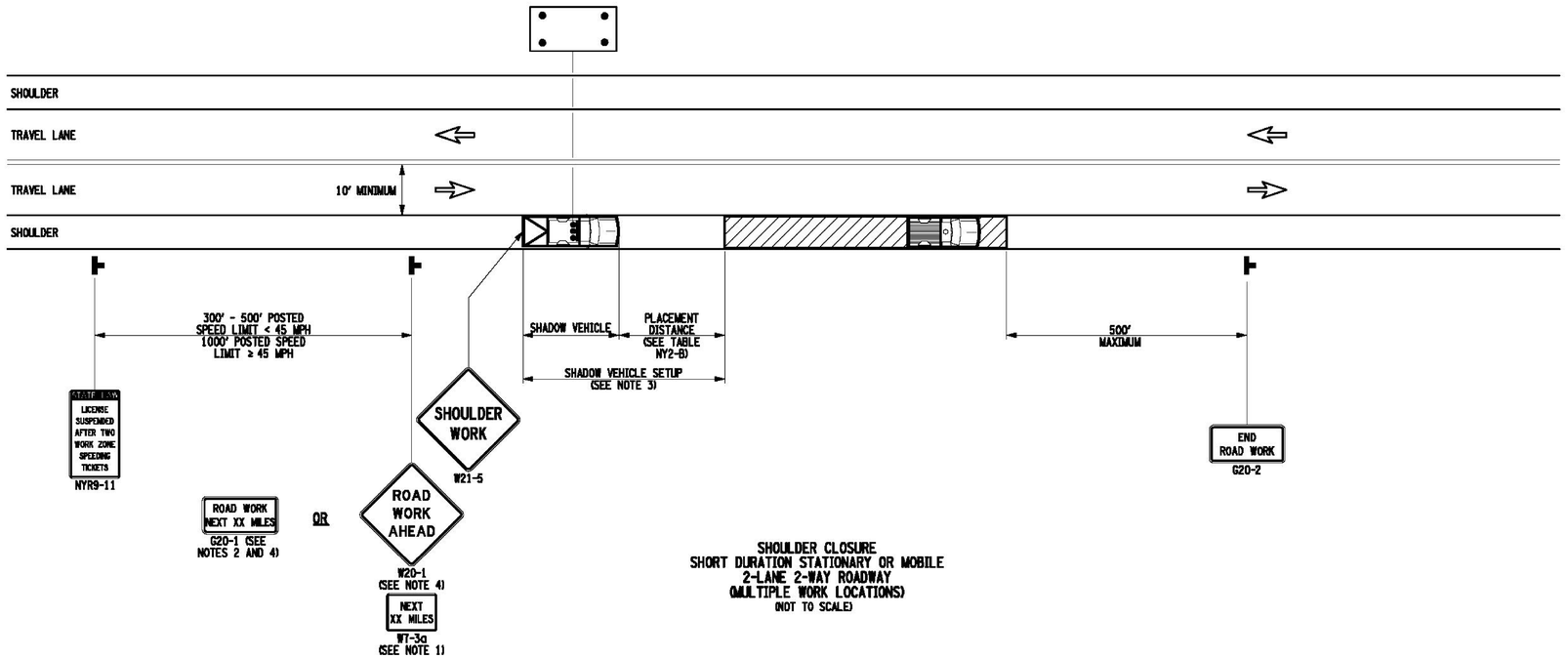
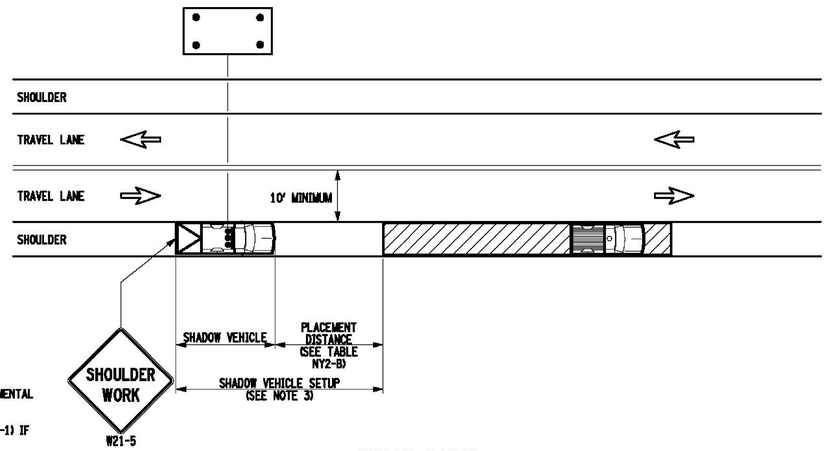
PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
WORK ZONE TRAFFIC CONTROL DETAILS

DRAWING NO.
WZTC-08



SHOULDER CLOSURE
SHORT DURATION STATIONARY OR MOBILE
2-LANE 2-WAY ROADWAY
(MULTIPLE WORK LOCATIONS)
(NOT TO SCALE)



SHOULDER CLOSURE
MOBILE OPERATION
2-LANE 2-WAY ROADWAY
(NOT TO SCALE)

NOTES:

1. WHEN THE DISTANCE BETWEEN THE ADVANCE WARNING SIGNS AND WORK IS 2 MILES TO 5 MILES, A SUPPLEMENTAL DISTANCE PLAQUE (W7-3a) SHOULD BE USED WITH THE ROAD WORK AHEAD SIGN (W20-1).
2. THE ROAD WORK NEXT XX MILES SIGN (G20-1) MAY BE USED INSTEAD OF THE ROAD WORK AHEAD SIGN (W20-1) IF WORK LOCATIONS OCCUR OVER A DISTANCE OF MORE THAN 2 MILES.
3. FOR SHADOW VEHICLE USE REQUIREMENTS SEE TABLES NY1-B AND NY2-B ON THE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES".
4. IN THOSE SITUATIONS WHERE MULTIPLE WORK LOCATIONS EXIST WITHIN A LIMITED DISTANCE MAKE IT PRACTICAL TO PLACE STATIONARY SIGNS, THE DISTANCE BETWEEN THE ADVANCE WARNING SIGN AND WORK SHALL NOT EXCEED 5 MILES.

NOTE: SEE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES" FOR LEGEND OF SYMBOLS AND/OR LETTER CODES USED IN THIS DRAWING.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY STANDARD SHEET

SHOULDER CLOSURE
2-LANE 2-WAY ROADWAY
MULTIPLE WORK LOCATIONS

APPROVED SEPTEMBER 15, 2009
/S/ DAVID J. CLEMENTS, P.E.
DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY

ISSUED UNDER EB 09-025
619-21

EFFECTIVE DATE: 01/07/10

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USER = JTurnley

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If an item bearing the seal of an engineer, architect, landscape architect or land surveyor is altered, the altering engineer, architect, landscape architect or land surveyor shall affix to the item his/her seal and his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO.
0911001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
NONE

ISSUE DATE
11/2018

STATE OF NEW YORK
JOHN B. SCHMID
072857
LICENSED PROFESSIONAL ENGINEER

FISHER ASSOCIATES
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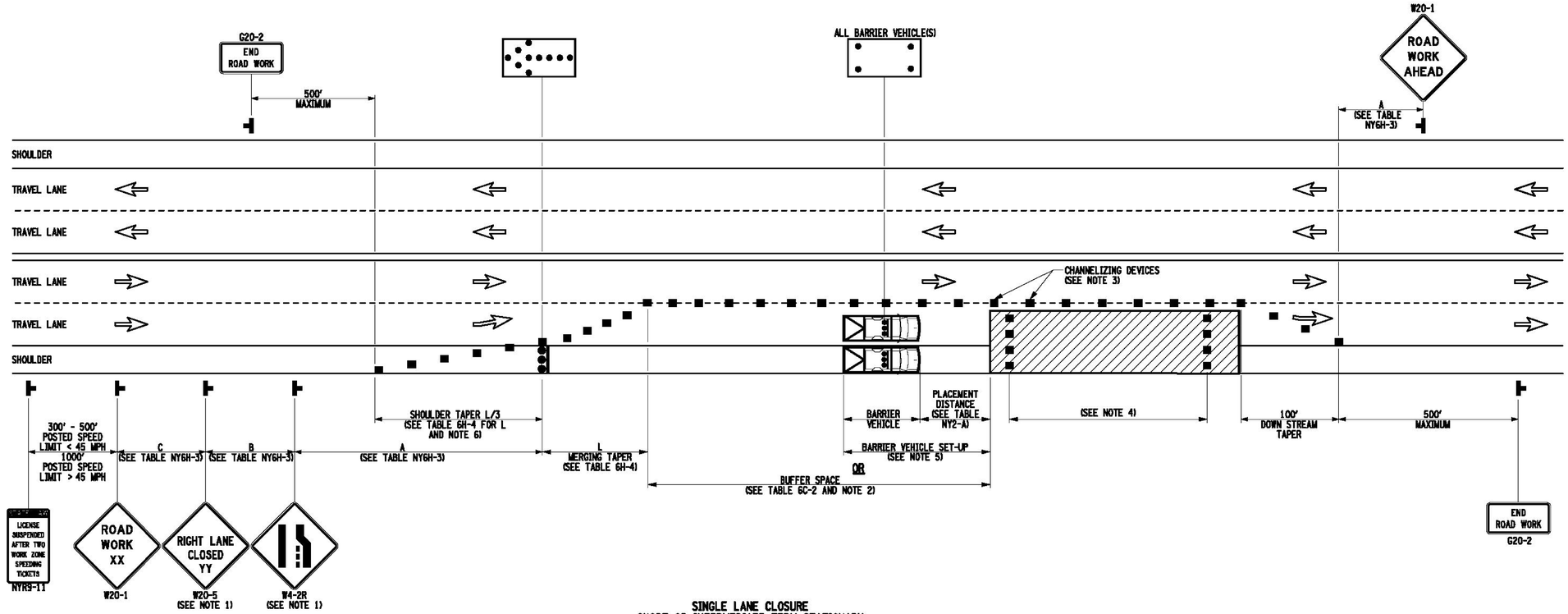
PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
WORK ZONE TRAFFIC CONTROL DETAILS

DRAWING NO.
WZTC-09



SINGLE LANE CLOSURE
SHORT OR INTERMEDIATE TERM STATIONARY
MULTI LANE HIGHWAY (UNDIVIDED)
(NOT TO SCALE)

NOTES:

1. LEFT LANE CLOSURES ARE SYMMETRICAL TO RIGHT LANE CLOSURES. SUBSTITUTE LEFT LANE CLOSED SIGN (W20-5) AND THE CORRESPONDING LANE ENDS SIGN (W4-2L).
2. NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.
3. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.
4. TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 1500'.
5. FOR BARRIER VEHICLE USE REQUIREMENTS SEE TABLES NY1-A AND NY2-A ON THE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES".
6. WHEN PAVED SHOULDERS HAVING A WIDTH OF 8' OR MORE ARE CLOSED, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK SPACE AND TO DIRECT VEHICULAR TRAFFIC TO REMAIN IN THE TRAVELED WAY.

NOTE: SEE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES" FOR LEGEND OF SYMBOLS AND/OR LETTER CODES USED IN THIS DRAWING.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY STANDARD SHEET

SINGLE LANE CLOSURE
MULTI LANE HIGHWAY

APPROVED SEPTEMBER 18, 2008	ISSUED UNDER EB 08-036
/S/ DAVID J. CLEMENTS, P.E. DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY	619-30

EFFECTIVE DATE: 01/08/09

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FA PROJECT NO.
0910001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
NONE

ISSUE DATE
11/2018

STATE OF NEW YORK
STEVEN B. SCHMID
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FISHER ASSOCIATES
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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
WORK ZONE TRAFFIC CONTROL DETAILS

DRAWING NO.
WZTC-10

SHEET 21 OF 110

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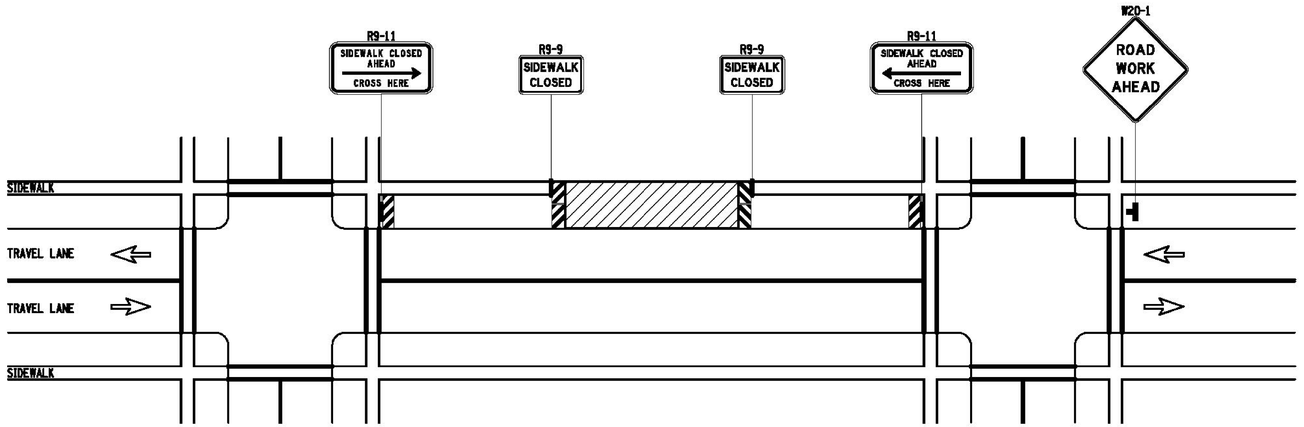
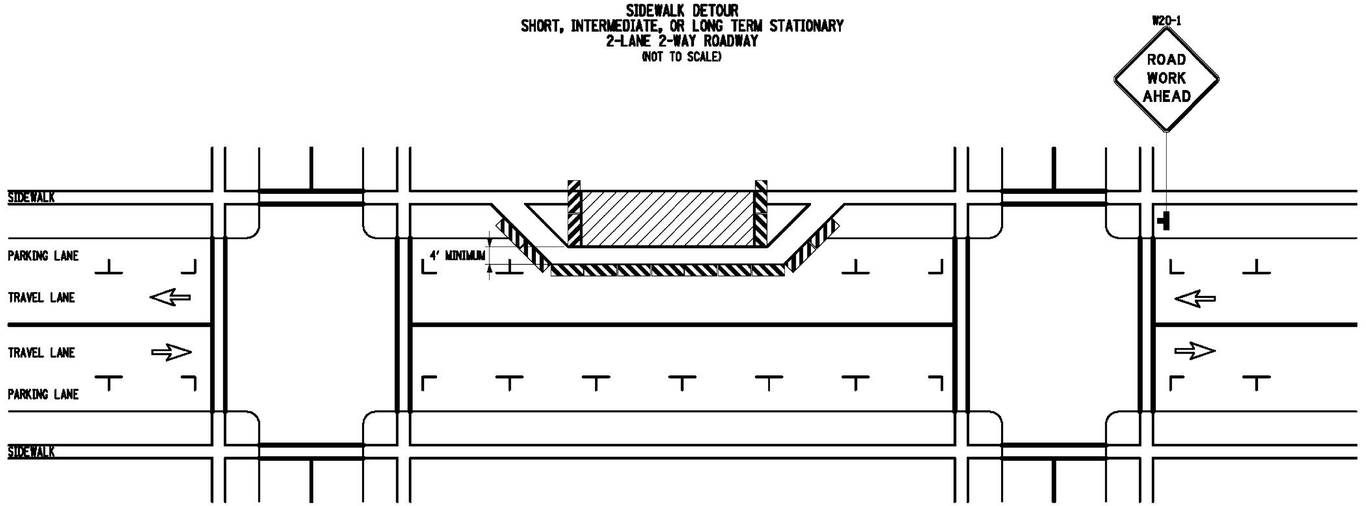


SIDEWALK DETOUR
SHORT, INTERMEDIATE, OR LONG TERM STATIONARY
2-LANE 2-WAY ROADWAY
(NOT TO SCALE)



SIDEWALK DIVERSION
SHORT, INTERMEDIATE, OR LONG TERM STATIONARY
2-LANE 2-WAY ROADWAY
(NOT TO SCALE)

NOTES:

1. WHEN CROSSWALKS OR OTHER PEDESTRIAN FACILITIES ARE CLOSED OR RELOCATED, TEMPORARY FACILITIES SHALL BE DETECTABLE AND SHALL INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE FEATURES PRESENT IN THE EXISTING FACILITY.
2. WHERE HIGH SPEEDS ARE ANTICIPATED, A TEMPORARY TRAFFIC BARRIER AND TEMPORARY IMPACT ATTENUATOR SHOULD BE USED TO SEPARATE THE TEMPORARY SIDEWALKS FROM VEHICULAR TRAFFIC.
3. ONLY THE WORK ZONE TRAFFIC CONTROL DEVICES RELATED TO PEDESTRIANS ARE SHOWN. OTHER DEVICES, SUCH AS LANE CLOSURE SIGNING OR ROAD NARROWS SIGNS (W5-4), MAY BE USED TO CONTROL VEHICULAR TRAFFIC.
4. FOR NIGHTTIME CLOSURES, FLASHING WARNING LIGHTS SHALL BE USED ON BARRICADES SUPPORTING SIGNS AND CLOSING SIDEWALKS.
5. SIGNS SUCH AS KEEP RIGHT (LEFT) SHALL BE PLACED ALONG A TEMPORARY SIDEWALK, WHERE APPLICABLE AND ACCORDING TO AMERICAN WITH DISABILITIES STANDARDS, TO GUIDE OR DIRECT PEDESTRIANS.
6. TYPE II BARRICADES MAY BE SUBSTITUTED FOR TYPE III BARRICADES AS PER 619 STANDARD SPECIFICATIONS.

NOTE: SEE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES" FOR LEGEND OF SYMBOLS AND/OR LETTER CODES USED IN THIS DRAWING.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY STANDARD SHEET

SIDEWALK DETOUR OR DIVERSION

APPROVED SEPTEMBER 15, 2009	ISSUED UNDER EB 09-025
/S/ DAVID J. CLEMENTS, P.E.	619-50
DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY	

EFFECTIVE DATE: 01/07/10

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FA PROJECT NO.
091001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
NONE

ISSUE DATE
11/2018

STATE OF NEW YORK * STEVEN B. SCHMID * 072851 * LICENSED PROFESSIONAL ENGINEER

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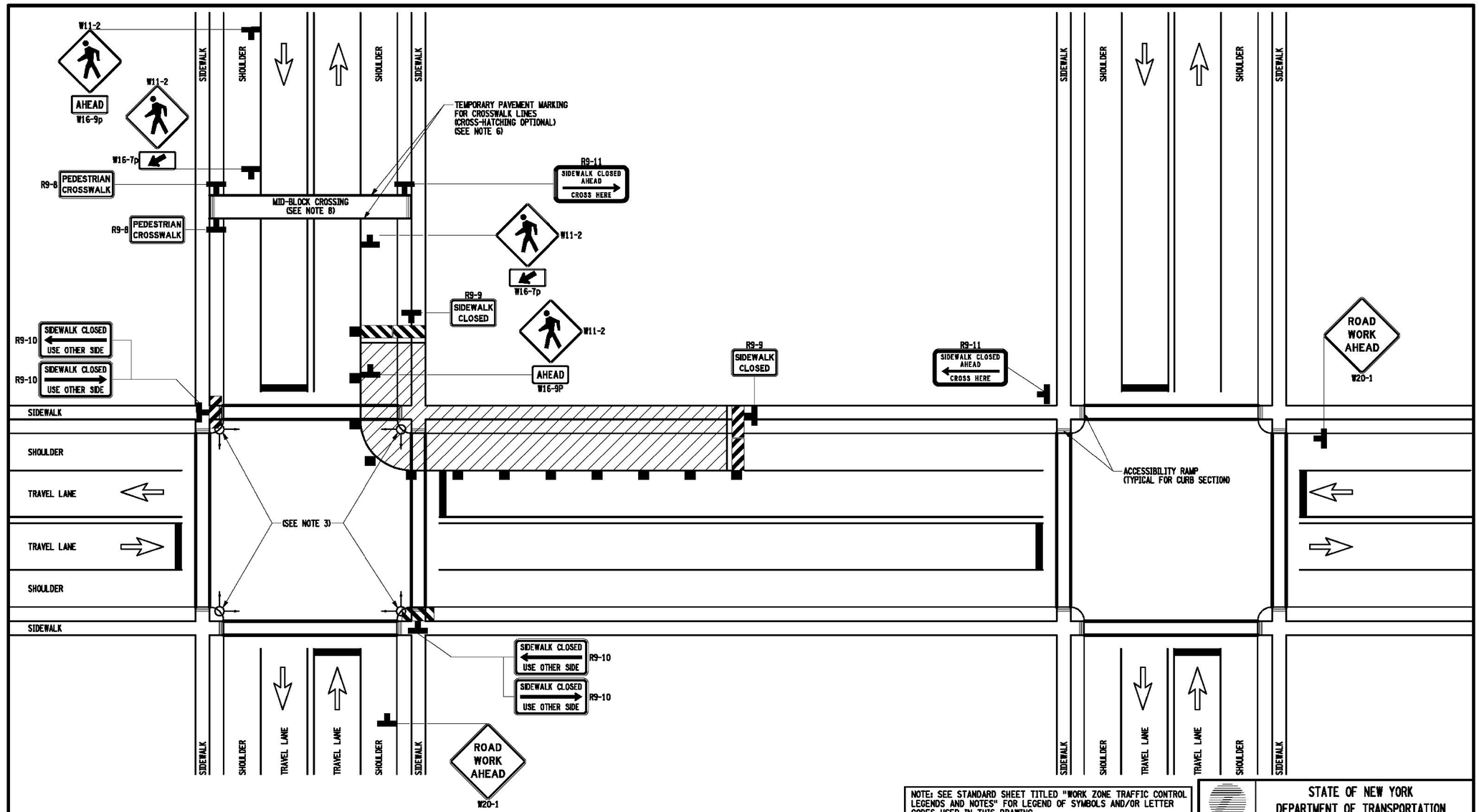
PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
WORK ZONE TRAFFIC CONTROL DETAILS

DRAWING NO.
WZTC-11



CROSSWALK CLOSURE AND PEDESTRIAN DETOUR
SHORT, INTERMEDIATE, OR LONG TERM STATIONARY
CROSSWALK CLOSURE ON 2-LANE 2-WAY ROADWAY
(NOT TO SCALE)

NOTE: SEE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES" FOR LEGEND OF SYMBOLS AND/OR LETTER CODES USED IN THIS DRAWING.

NOTES:

1. WHEN CROSSWALKS OR OTHER PEDESTRIAN FACILITIES ARE CLOSED OR RELOCATED, TEMPORARY FACILITIES SHALL BE DETECTABLE AND SHALL INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE FEATURES PRESENT IN THE EXISTING FACILITY.
2. CURB PARKING SHALL BE PROHIBITED FOR AT LEAST 50' IN ADVANCE OF THE MID-BLOCK CROSSWALK.
3. PEDESTRIAN TRAFFIC SIGNAL DISPLAYS CONTROLLING CLOSED CROSSWALKS SHOULD BE COVERED OR DEACTIVATED.
4. ONLY THE WORK ZONE TRAFFIC CONTROL DEVICES RELATED TO PEDESTRIANS ARE SHOWN. OTHER DEVICES, SUCH AS LANE CLOSURE SIGNING OR ROAD NARROWS SIGNS (W5-4), MAY BE USED TO CONTROL VEHICULAR TRAFFIC.
5. FOR NIGHTTIME CLOSURES, FLASHING WARNING LIGHTS SHALL BE USED ON BARRICADES SUPPORTING SIGNS AND CLOSING SIDEWALKS.
6. FOR LONG-TERM STATIONARY WORK, THE DOUBLE YELLOW CENTERLINE AND/OR LANE LINES SHOULD BE REMOVED BETWEEN THE TEMPORARY CROSSWALK LINES.
6. AREA SHALL BE RECONSTRUCTED TO BE ACCESSIBLE TO PEDESTRIANS.
7. ALL MID-BLOCK CROSSINGS REQUIRE THE APPROVAL OF THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE.
8. TYPE II BARRICADES MAY BE SUBSTITUTED FOR TYPE III BARRICADES AS PER 619 STANDARD SPECIFICATIONS.

EFFECTIVE DATE: 01/08/09

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY STANDARD SHEET

CROSSWALK CLOSURE AND PEDESTRIAN DETOUR

APPROVED SEPTEMBER 18, 2008
/S/ DAVID J. CLEMENTS, P.E.
DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY

ISSUED UNDER EB 08-036
619-51

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If an item bearing the seal of an engineer, land surveyor and attorney, the alteration will be made by the item, his/her seal and his/her signature and the date of such alteration and a specific description of the alteration.

FA PROJECT NO.
0911001
PROJECT MANAGER
R. SCHMID
DRAWN BY
C. PERKINS
SCALE
NONE
ISSUE DATE
11/2018

STATE OF NEW YORK
STEVEN B. SCHMID
072857
LICENSED PROFESSIONAL ENGINEER

FISHER ASSOCIATES
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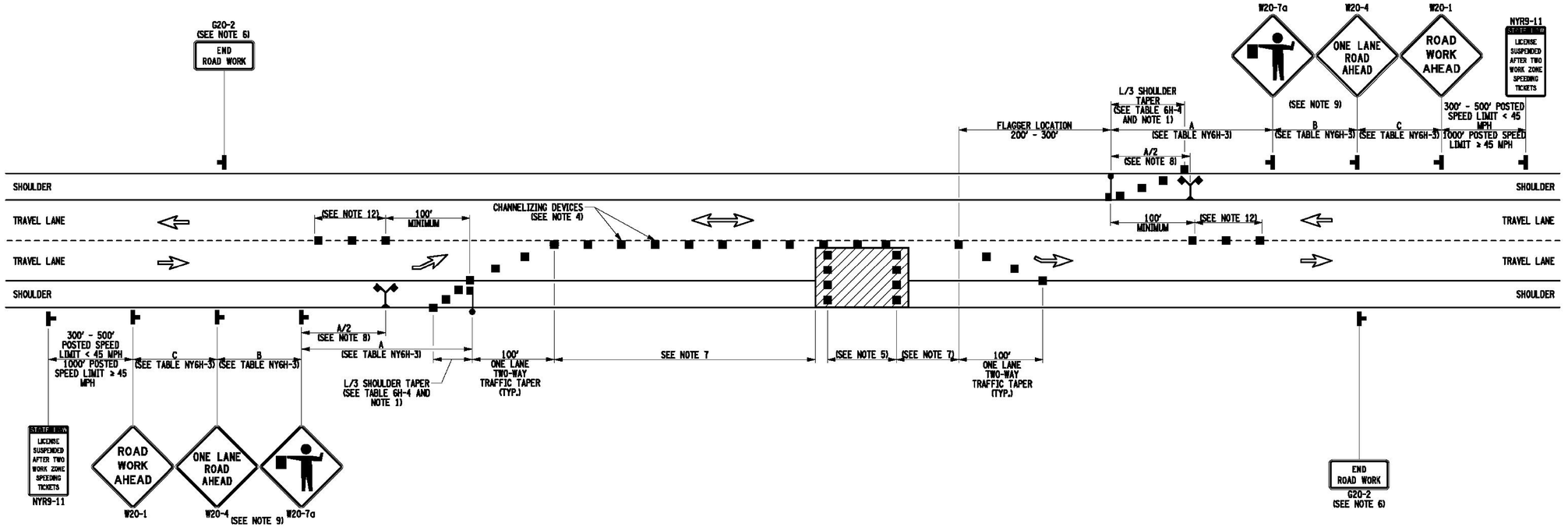
PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
WORK ZONE TRAFFIC CONTROL DETAILS

DRAWING NO.
WZTC-12



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

NOTES:

1. WHEN PAVED SHOULDERS HAVING A WIDTH OF 8' OR MORE ARE CLOSED, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK AREA AND DIRECT VEHICULAR TRAFFIC TO REMAIN IN THE TRAVEL WAY.
2. WHEN A SIDE ROAD OR DRIVEWAY INTERSECTS THE ROADWAY WITHIN A WORK ZONE TRAFFIC CONTROL AREA, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES AND/OR FLAGGERS SHALL BE PLACED AS NEEDED. ADDITIONAL FLAGGERS SHALL BE LOCATED AT ALL INTERSECTIONS AND COMMERCIAL DRIVEWAYS LOCATED WITHIN OR NEAR THE ACTIVE WORK SPACE.
3. NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.
4. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.
5. TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 1500'.
6. THE END ROAD WORK SIGN (G20-2) SHALL BE PLACED A MAXIMUM OF 500' PAST THE END OF THE WORK SPACE.
7. WHERE DIRECTED BY THE ENGINEER, A BUFFER SPACE SHALL BE PROVIDED IN ORDER TO LOCATE THE ONE-LANE, TWO-WAY TRAFFIC TAPER PRIOR TO ANY HORIZONTAL OR VERTICAL CURVE, IN ORDER TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE FLAGGERS AND/OR A QUEUE OF STOPPED VEHICLES.
8. THE FLAG TREE SHALL BE LOCATED ON THE SHOULDER, AT APPROXIMATELY ½ THE DISTANCE BETWEEN THE FLAGGER SIGN (W20-7a) AND THE FLAGGER.
9. FLAGGER SIGN (W20-7a) AND ONE LANE ROAD AHEAD SIGN (W20-4) SHALL BE REMOVED, COVERED OR TURNED AWAY FROM ROAD USERS WHEN FLAGGING OPERATIONS ARE NOT OCCURRING.
10. FLAGGER AND FLAG TREE SHALL BE ILLUMINATED TO LEVEL II ILLUMINATION DURING NIGHT TIME OPERATIONS.
11. ALL FLAGGERS SHALL USE 24" (MIN.) OCTAGON SHAPED STOP/SLOW PADDLES HAVING 6' STAFF.
12. CENTERLINE CHANNELIZING DEVICES ARE OPTIONAL AND MAY BE ELIMINATED WHERE SPACE CONSTRAINTS EXIST.

NOTE: SEE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES" FOR LEGEND OF SYMBOLS AND/OR LETTER CODES USED IN THIS DRAWING.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY STANDARD SHEET

FLAGGING OPERATION
2-LANE 2-WAY ROADWAY

APPROVED SEPTEMBER 15, 2009
/S/ DAVID J. CLEMENTS, P.E.
DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY

ISSUED UNDER EB 09-025
619-60

EFFECTIVE DATE: 01/07/10

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USER = jaurlay

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11/16/2018 10:55:19 AM
TimD

REV	DESCRIPTION	DATE	BY
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If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his/her seal and the notation "altered by" followed by his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO.
0911001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
NONE

ISSUE DATE
11/2018

STATE OF NEW YORK * EVAN B. SCHMID * 072857 * LICENSED PROFESSIONAL ENGINEER

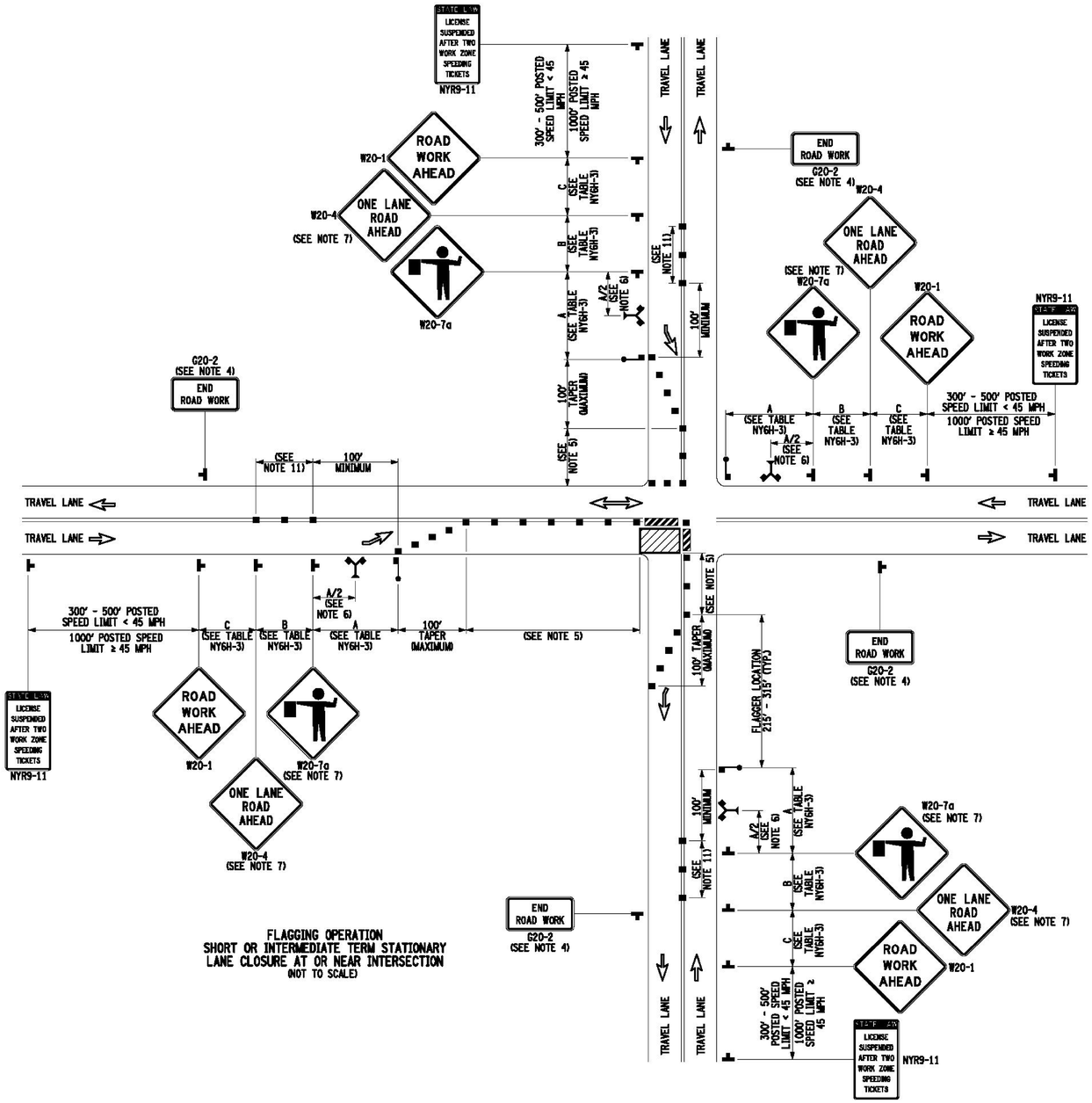
FISHER ASSOCIATES
WWW.FISHERASSOC.COM

PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
WORK ZONE TRAFFIC CONTROL DETAILS

DRAWING NO.
WZTC-13

SHEET 24 OF 110



FLAGGING OPERATION
SHORT OR INTERMEDIATE TERM STATIONARY
LANE CLOSURE AT OR NEAR INTERSECTION
(NOT TO SCALE)

NOTES:

1. AT SIGNALIZED INTERSECTIONS, SIGNALS SHALL BE TURNED OFF FOR ANY FLAGGING OPERATIONS, UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.
2. WHEN PAVED SHOULDERS HAVING A WIDTH OF 8' OR MORE ARE CLOSED, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK AREA AND DIRECT VEHICULAR TRAFFIC TO REMAIN IN THE TRAVEL WAY.
3. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.
4. THE END ROAD WORK SIGN (G20-2) SHALL BE PLACED A MAXIMUM OF 500' PAST THE END OF THE WORK SPACE.
5. WHERE DIRECTED BY THE ENGINEER, A BUFFER SPACE SHALL BE PROVIDED IN ORDER TO LOCATE THE ONE-LANE, TWO-WAY TRAFFIC TAPER PRIOR TO ANY HORIZONTAL OR VERTICAL CURVE, IN ORDER TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE FLAGGERS AND/OR A QUEUE OF STOPPED VEHICLES.
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8. FLAGGER AND FLAG TREE SHALL BE ILLUMINATED TO LEVEL II ILLUMINATION DURING NIGHT TIME OPERATIONS.
9. ALL FLAGGERS SHALL USE 24" (MIN.) OCTAGON SHAPED STOP/SLOW PADDLES HAVING 6' STAFF.
10. ADDITIONAL FLAGGERS SHALL BE LOCATED AT ALL INTERSECTIONS AND COMMERCIAL DRIVEWAYS LOCATED WITHIN OR NEAR THE ACTIVE WORK AREA.
11. CENTERLINE CHANNELIZING DEVICES ARE OPTIONAL AND MAY BE ELIMINATED WHERE SPACE CONSTRAINTS EXIST.
12. NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.
13. FOR PEDESTRIAN DETOUR ACCOMMODATIONS REFER TO THE STANDARD SHEETS TITLED "SIDEWALK DETOUR OR DIVERSION" AND "CROSSWALK CLOSURE AND PEDESTRIAN DETOUR".

NOTE: SEE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES" FOR LEGEND OF SYMBOLS AND/OR LETTER CODES USED IN THIS DRAWING.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY STANDARD SHEET

FLAGGING OPERATION
2-LANE 2-WAY ROADWAY INTERSECTION

APPROVED SEPTEMBER 18, 2008
/S/ DAVID J. CLEMENTS, P.E.
DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY

ISSUED UNDER EB 08-036
619-61

EFFECTIVE DATE: 01/08/09

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
0911001
PROJECT MANAGER
R. SCHMID
DRAWN BY
C. PERKINS
SCALE
NONE
ISSUE DATE
11/2018

STATE OF NEW YORK * KEVIN B. SCHMID * 072857 * LICENSED PROFESSIONAL ENGINEER

FISHER ASSOCIATES
WWW.FISHERASSOC.COM

PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
WORK ZONE TRAFFIC CONTROL DETAILS

DRAWING NO.
WZTC-14

SHEET 25 OF 110

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USER = jburley

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11/16/2018
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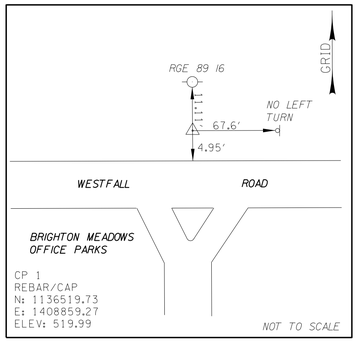
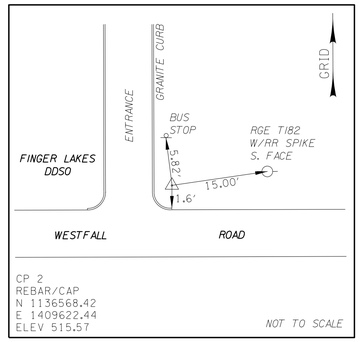


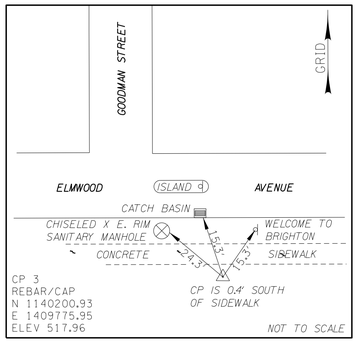
CP 1
REBAR/CAP
N: 1136519.73
E: 1408859.27
ELEV: 519.99

NOT TO SCALE



CP 2
REBAR/CAP
N 1136568.42
E 1409622.44
ELEV 515.57

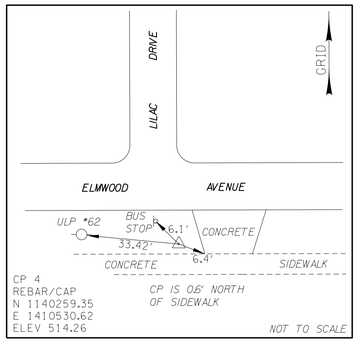
NOT TO SCALE



CP 3
REBAR/CAP
N 1140200.93
E 1409775.95
ELEV 517.96

CP IS 0.4' SOUTH OF SIDEWALK

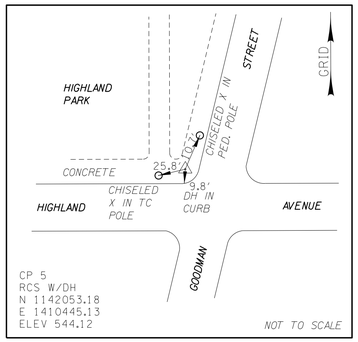
NOT TO SCALE



CP 4
REBAR/CAP
N 1140259.35
E 1410530.62
ELEV 514.26

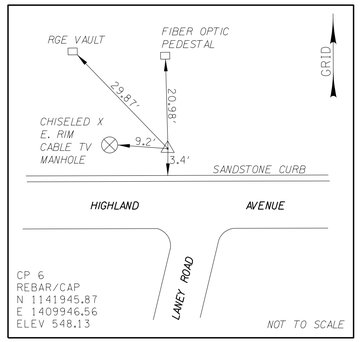
CP IS 0.6' NORTH OF SIDEWALK

NOT TO SCALE



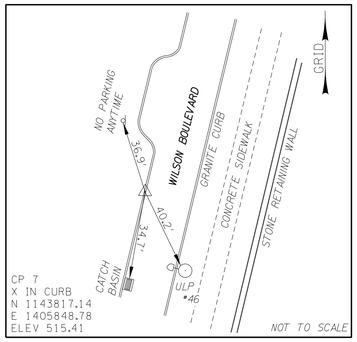
CP 5
RCS W/DH
N 1142053.18
E 1410445.13
ELEV 544.12

NOT TO SCALE



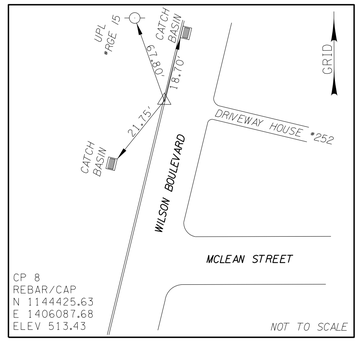
CP 6
REBAR/CAP
N 1141945.87
E 1409946.56
ELEV 548.13

NOT TO SCALE



CP 7
X IN CURB
N 1143817.14
E 1405848.78
ELEV 515.41

NOT TO SCALE



CP 8
REBAR/CAP
N 1144425.63
E 1406087.68
ELEV 513.43

NOT TO SCALE

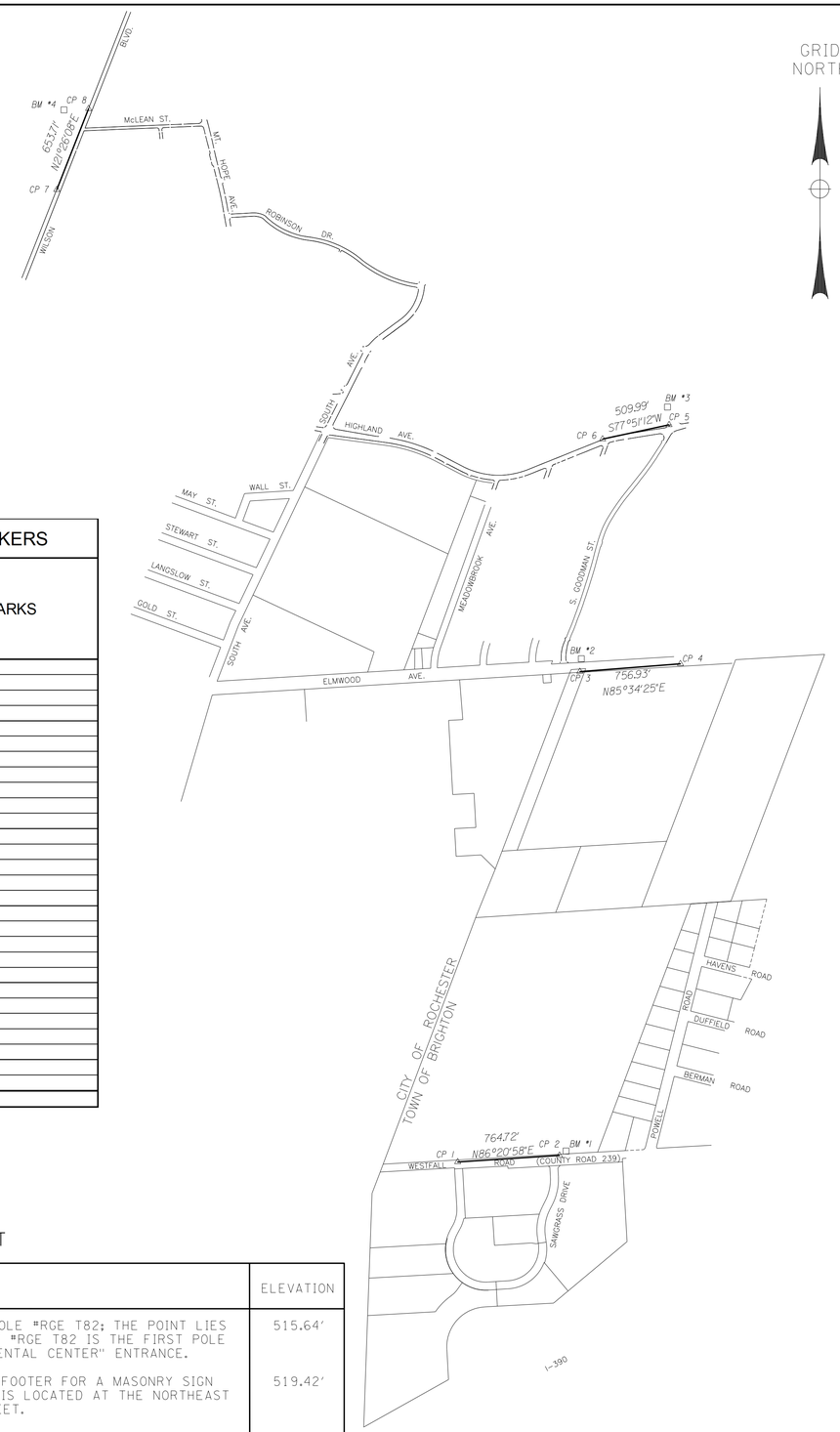
ITEM 625.05 - STEEL PIN AND CAP ROW MARKERS

STATION	OFFSET	SIDE	QUANTITY	REMARKS
SJ 2+86.60	23.06	RT	1	
SJ 2+45.23	11.36	LT	1	
SJ 2+80.72	11.00	LT	1	
SJ 3+32.67	8.00	LT	1	
SJ 4+68.97	8.00	LT	1	
SJ 7+28.82	7.99	LT	1	
SJ 7+29.29	41.81	LT	1	
SJ 8+50.63	39.72	LT	1	
SJ 10+00.00	11.00	LT	1	
SJ 18+43.32	11.00	LT	1	
SJ 18+85.18	11.00	LT	1	
SJ 20+86.38	11.00	LT	1	
SJ 21+40.66	12.70	LT	1	
SJ 21+76.75	12.95	LT	1	
SJ 22+15.82	13.91	LT	1	
SJ 21+29.82	203.91	RT	1	
SJ 21+29.82	12.47	LT	1	
SJ 23+52.10	15.31	LT	1	
SJ 25+38.43	13.64	LT	1	
SJ 25+85.51	11.97	LT	1	
SJ 26+62.04	10.94	LT	1	
E 20+45.91	41.02	LT	1	
E 20+45.64	54.54	LT	1	
E 21+78.59	53.19	LT	1	
E 22+08.50	59.23	LT	1	
E 25+10.20	59.62	LT	1	
E 25+99.40	53.73	LT	1	
E 27+62.73	53.94	LT	1	
		TOTAL =	28	

NOTE
1. CAPS TO BE STAMPED "ROW MARKER".
2. LOCATIONS ARE APPROXIMATE.

BENCHMARK REPORT

POINT NO.	DESCRIPTION	ELEVATION
BM 1	RAILROAD SPIKE SET IN THE SOUTH FACE OF POWER POLE "RGE T82; THE POINT LIES ON THE NORTH SIDE OF WESTFALL ROAD. POWER POLE "RGE T82 IS THE FIRST POLE EAST OF THE "FINGER LAKES DDSO MONROE DEVELOPMENTAL CENTER" ENTRANCE.	515.64'
BM 2	CHISELED X IN THE SOUTHEAST CORNER OF CONCRETE FOOTER FOR A MASONRY SIGN TITLED "MONROE COUNTY HIGHLAND PARK". THE SIGN IS LOCATED AT THE NORTHEAST INTERSECTION OF ELMWOOD AVENUE AND GOODMAN STREET.	519.42'
BM 3	RTS MONUMENT LOCATED IN THE SIDEWALK AT THE NORTHWEST CORNER OF THE INTERSECTION OF HIGHLAND AVENUE AND GOODMAN STREET.	543.78'
BM 4	CHISELED X SET IN THE SOUTHEAST CORNER OF A CONCRETE FOOTER FOR LAMP POST "39. THE POINT LIES ON THE WESTERLY SIDE OF WILSON BOULEVARD AT THE INTERSECTION OF WILSON BOULEVARD AND MCLEAN STREET.	513.91'



1. COORDINATES SHOWN HEREON ARE REFERENCED TO THE NAD 83 (NYSDOT CORS 07) NEW YORK STATE PLANE COORDINATE SYSTEM, WESTERN ZONE, THROUGH RTK GPS METHODS.
2. ELEVATIONS SHOWN HEREON ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM 88 (GEOID 03) THROUGH RTK GPS TIES TO THE NYSDOT CORS NETWORK.

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
0911001
PROJECT MANAGER
M. ELTZ
DRAWN BY
J.H.
SCALE
NONE
ISSUE DATE
11/2018

STATE OF NEW YORK * KEVIN B. SCHMIDT * 078872 * LICENSED PROFESSIONAL ENGINEER

FISHER ASSOCIATES
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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
SURVEY CONTROL SHEET

DRAWING NO.
SC-1

SHEET 26 OF 110

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11/16/2018
10:55:39 AM
TimD

ALIGNMENT NAME: SG (ALONG SAWGRASS DRIVE)

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
POB	SG 1+00.00	1135478.30	1409670.10
PC	SG 1+15.57	1135485.14	1409656.11
TANGENT DIRECTION:	N 63°56'59" W		
TANGENT LENGTH:	15.57		
ELEMENT: CIRCULAR			
PC	SG 1+15.57	1135485.14	1409656.11
PI	SG 1+41.19	1135496.39	1409633.09
CC		1135559.29	1409692.35
PT	SG 1+65.26	1135518.70	1409620.49
RADIUS:	82.53		
DELTA:	34°29'46" RIGHT		
DEGREE OF CURVATURE(ARC):	69°25'12"		
LENGTH:	49.69		
TANGENT:	25.62		
CHORD:	48.94		
ELEMENT: LINEAR			
PT	SG 1+65.26	1135518.70	1409620.49
PC	SG 1+96.50	1135545.91	1409605.12
TANGENT DIRECTION:	N 29°27'13" W		
TANGENT LENGTH:	31.24		
ELEMENT: CIRCULAR			
PC	SG 1+96.50	1135545.91	1409605.12
PI	SG 2+07.37	1135555.37	1409599.78
CC		1135595.08	1409692.20
PT	SG 2+18.16	1135565.77	1409596.59
RADIUS:	100.00		
DELTA:	12°24'31" RIGHT		
DEGREE OF CURVATURE(ARC):	57°17'45"		
LENGTH:	21.66		
TANGENT:	10.87		
CHORD:	21.61		
ELEMENT: LINEAR			
PT	SG 2+18.16	1135565.77	1409596.59
PC	SG 2+24.21	1135571.55	1409594.82
TANGENT DIRECTION:	N 17°02'42" W		
TANGENT LENGTH:	6.05		
ELEMENT: CIRCULAR			
PC	SG 2+24.21	1135571.55	1409594.82
PI	SG 2+52.09	1135598.20	1409586.65
CC		1135542.76	1409500.92
PT	SG 2+78.54	1135616.59	1409565.69
RADIUS:	98.21		
DELTA:	31°41'32" LEFT		
DEGREE OF CURVATURE(ARC):	58°20'14"		
LENGTH:	54.33		
TANGENT:	27.88		
CHORD:	53.64		
ELEMENT: LINEAR			
PT	SG 2+78.54	1135616.59	1409565.69
PC	SG 3+18.16	1135642.72	1409535.91
TANGENT DIRECTION:	N 48°44'14" W		
TANGENT LENGTH:	39.62		
ELEMENT: CIRCULAR			
PC	SG 3+18.16	1135642.72	1409535.91
PI	SG 3+29.39	1135650.13	1409527.47
CC		1135727.12	1409609.96
PT	SG 3+40.54	1135659.06	1409520.66
RADIUS:	112.29		
DELTA:	11°25'22" RIGHT		
DEGREE OF CURVATURE(ARC):	51°01'36"		
LENGTH:	22.39		
TANGENT:	11.23		
CHORD:	22.35		
ELEMENT: LINEAR			
PT	SG 3+40.54	1135659.06	1409520.66
PC	SG 3+65.67	1135679.04	1409505.43
TANGENT DIRECTION:	N 37°18'52" W		
TANGENT LENGTH:	25.13		
ELEMENT: CIRCULAR			
PC	SG 3+65.67	1135679.04	1409505.43
PI	SG 3+83.71	1135693.39	1409494.49
CC		1135618.42	1409425.90
PT	SG 4+01.36	1135703.01	1409479.24
RADIUS:	100.00		
DELTA:	20°26'53" LEFT		
DEGREE OF CURVATURE(ARC):	57°17'45"		
LENGTH:	35.69		
TANGENT:	18.04		
CHORD:	35.50		
ELEMENT: LINEAR			
PT	SG 4+01.36	1135703.01	1409479.24
PI	SG 4+60.33	1135734.46	1409429.36
TANGENT DIRECTION:	N 57°45'45" W		
TANGENT LENGTH:	58.97		
ELEMENT: LINEAR			
PI	SG 4+60.33	1135734.46	1409429.36
PC	SG 4+60.70	1135734.77	1409429.56
TANGENT DIRECTION:	N 33°42'38" E		
TANGENT LENGTH:	0.37		

CONTINUED - ALIGNMENT NAME: SG (ALONG SAWGRASS DRIVE)

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC	SG 4+60.70	1135734.77	1409429.56
PI	SG 5+55.83	1135813.91	1409482.36
CC		1135872.41	1409223.26
PT	SG 6+42.38	1135908.06	1409468.69
RADIUS:	248.00		
DELTA:	41°58'33" LEFT		
DEGREE OF CURVATURE(ARC):	23°06'11"		
LENGTH:	181.69		
TANGENT:	95.14		
CHORD:	177.65		
ELEMENT: LINEAR			
PT	SG 6+42.38	1135908.06	1409468.69
PC	SG 6+90.15	1135955.33	1409461.82
TANGENT DIRECTION:	N 8°15'55" W		
TANGENT LENGTH:	47.76		
ELEMENT: CIRCULAR			
PC	SG 6+90.15	1135955.33	1409461.82
PI	SG 8+11.22	1136075.14	1409444.42
CC		1136010.53	1409841.83
PT	SG 9+24.72	1136183.27	1409498.88
RADIUS:	384.00		
DELTA:	35°00'00" RIGHT		
DEGREE OF CURVATURE(ARC):	14°55'15"		
LENGTH:	234.57		
TANGENT:	121.07		
CHORD:	230.94		
ELEMENT: LINEAR			
PT	SG 9+24.72	1136183.27	1409498.88
PC	SG 9+75.44	1136228.57	1409521.70
TANGENT DIRECTION:	N 26°44'05" E		
TANGENT LENGTH:	50.72		
ELEMENT: CIRCULAR			
PC	SG 9+75.44	1136228.57	1409521.70
PI	SG 10+70.83	1136313.77	1409564.61
CC		1136388.72	1409203.76
PT	SG 11+61.84	1136409.00	1409559.18
RADIUS:	356.00		
DELTA:	30°00'00" LEFT		
DEGREE OF CURVATURE(ARC):	16°05'40"		
LENGTH:	186.40		
TANGENT:	95.39		
CHORD:	184.28		
ELEMENT: LINEAR			
PT	SG 11+61.84	1136409.00	1409559.18
PC	SG 12+01.66	1136448.76	1409556.91
TANGENT DIRECTION:	N 3°15'55" W		
TANGENT LENGTH:	39.82		
ELEMENT: CIRCULAR			
PC	SG 12+01.66	1136448.76	1409556.91
PI	SG 12+19.08	1136466.15	1409555.92
CC		1136444.26	1409478.04
PT	SG 12+35.95	1136481.51	1409547.71
RADIUS:	79.00		
DELTA:	24°52'03" LEFT		
DEGREE OF CURVATURE(ARC):	72°31'35"		
LENGTH:	34.29		
TANGENT:	17.42		
CHORD:	34.02		
ELEMENT: LINEAR			
PT	SG 12+35.95	1136481.51	1409547.71
POE	SG 12+59.06	1136501.88	1409536.81
TANGENT DIRECTION:	N 28°07'58" W		
TANGENT LENGTH:	23.11		

ALIGNMENT NAME: E (ELMWOOD AVE - ROADWAY)

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
POB	E 7+32.43	1140267.59	1410181.03
EQNBK	0+00.00	1140267.59	1410181.03
EQNAHD	E 7+32.43	1140267.59	1410181.03
PI	E 8+67.25	1140259.74	1410046.44
TANGENT DIRECTION:	S 86°39'34" W		
TANGENT LENGTH:	134.82		
ELEMENT: LINEAR			
PI	E 8+67.25	1140259.74	1410046.44
PI	E 12+14.06	1140235.29	1409700.49
TANGENT DIRECTION:	S 85°57'29" W		
TANGENT LENGTH:	346.81		
ELEMENT: LINEAR			
PI	E 12+14.06	1140235.29	1409700.49
PI	E 12+97.13	1140230.26	1409617.58
TANGENT DIRECTION:	S 86°31'52" W		
TANGENT LENGTH:	83.06		
ELEMENT: LINEAR			
PI	E 12+97.13	1140230.26	1409617.58
PI	E 18+62.57	1140191.38	1409053.48
TANGENT DIRECTION:	S 86°03'26" W		
TANGENT LENGTH:	565.45		
ELEMENT: LINEAR			
PI	E 18+62.57	1140191.38	1409053.48
PI	E 34+10.39	1140098.61	1407508.44
TANGENT DIRECTION:	S 86°33'49" W		
TANGENT LENGTH:	1547.82		
ELEMENT: LINEAR			
PI	E 34+10.39	1140098.61	1407508.44
POE	E 39+19.49	1140076.46	1406999.82
TANGENT DIRECTION:	S 87°30'25" W		
TANGENT LENGTH:	509.10		

REV	DESCRIPTION	DATE	BY
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If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his/her seal and the notation "altered by" followed by his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO.
0911001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
NONE

ISSUE DATE
11/2018

STATE OF NEW YORK * BRIAN B. SCHMID * 072857 * LICENSED PROFESSIONAL ENGINEER

FISHER ASSOCIATES
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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
SURVEY CONTROL - HORIZONTAL ALIGNMENTS

DRAWING NO.
SC-2

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ALIGNMENT NAME: EL (ELMWOOD AVE TRAIL)

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
POB	EL 1+00.00	1140205.24	1409816.45
EQNBK	0+00.00	1140205.24	1409816.45
EQNAHD	EL 1+00.00	1140205.24	1409816.45
PC	EL 1+25.13	1140203.53	1409791.38
TANGENT DIRECTION:	S 86°06'58" W		
TANGENT LENGTH:	25.13		
ELEMENT: CIRCULAR			
PC	EL 1+25.13	1140203.53	1409791.38
PI	EL 1+35.03	1140202.86	1409781.50
CC		1140008.98	1409804.59
PT	EL 1+44.91	1140201.20	1409771.74
RADIUS:	195.00		
DELTA:	5°48'47" LEFT		
DEGREE OF CURVATURE(ARC):	29°22'57"		
LENGTH:	19.78		
TANGENT:	9.90		
CHORD:	19.78		
ELEMENT: LINEAR			
PT	EL 1+44.91	1140201.20	1409771.74
PC	EL 1+79.58	1140195.36	1409737.56
TANGENT DIRECTION:	S 80°18'12" W		
TANGENT LENGTH:	34.67		
ELEMENT: CIRCULAR			
PC	EL 1+79.58	1140195.36	1409737.56
PI	EL 1+88.72	1140193.82	1409728.56
CC		1140397.43	1409703.04
PT	EL 1+97.84	1140193.09	1409719.45
RADIUS:	205.00		
DELTA:	5°06'13" RIGHT		
DEGREE OF CURVATURE(ARC):	27°56'57"		
LENGTH:	18.26		
TANGENT:	9.14		
CHORD:	18.25		
ELEMENT: LINEAR			
PT	EL 1+97.84	1140193.09	1409719.45
PC	EL 2+71.13	1140187.22	1409646.40
TANGENT DIRECTION:	S 85°24'24" W		
TANGENT LENGTH:	73.29		
ELEMENT: CIRCULAR			
PC	EL 2+71.13	1140187.22	1409646.40
PI	EL 2+78.48	1140186.63	1409639.07
CC		1140391.56	1409629.98
PT	EL 2+85.82	1140186.57	1409631.73
RADIUS:	205.00		
DELTA:	4°06'19" RIGHT		
DEGREE OF CURVATURE(ARC):	27°56'57"		
LENGTH:	14.69		
TANGENT:	7.35		
CHORD:	14.69		
ELEMENT: LINEAR			
PT	EL 2+85.82	1140186.57	1409631.73
PC	EL 3+29.47	1140186.19	1409588.09
TANGENT DIRECTION:	S 89°30'43" W		
TANGENT LENGTH:	43.64		
ELEMENT: CIRCULAR			
PC	EL 3+29.47	1140186.19	1409588.09
PI	EL 3+37.85	1140186.12	1409579.70
CC		1139991.20	1409589.75
PT	EL 3+46.22	1140185.33	1409571.36
RADIUS:	195.00		
DELTA:	4°55'20" LEFT		
DEGREE OF CURVATURE(ARC):	29°22'57"		
LENGTH:	16.75		
TANGENT:	8.38		
CHORD:	16.75		
ELEMENT: LINEAR			
PT	EL 3+46.22	1140185.33	1409571.36
PC	EL 4+22.03	1140178.18	1409495.89
TANGENT DIRECTION:	S 84°35'24" W		
TANGENT LENGTH:	75.81		
ELEMENT: CIRCULAR			
PC	EL 4+22.03	1140178.18	1409495.89
PI	EL 4+31.41	1140177.30	1409486.55
CC		1139934.28	1409518.99
PRC	EL 4+40.77	1140175.71	1409477.31
RADIUS:	245.00		
DELTA:	4°23'04" LEFT		
DEGREE OF CURVATURE(ARC):	23°23'10"		
LENGTH:	18.75		
TANGENT:	9.38		
CHORD:	18.74		
ELEMENT: CIRCULAR			
PRC	EL 4+40.77	1140175.71	1409477.31
PI	EL 4+53.91	1140173.47	1409464.36
CC		1140426.99	1409433.93
PT	EL 4+67.03	1140172.58	1409451.25
RADIUS:	255.00		
DELTA:	5°53'59" RIGHT		
DEGREE OF CURVATURE(ARC):	22°28'08"		
LENGTH:	26.26		
TANGENT:	13.14		
CHORD:	26.25		

CONTINUED - ALIGNMENT NAME: EL (ELMWOOD AVE TRAIL)

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
PT	EL 4+67.03	1140172.58	1409451.25
PI	EL 8+73.90	1140144.94	1409045.32
TANGENT DIRECTION:	S 86°06'18" W		
TANGENT LENGTH:	406.87		
ELEMENT: LINEAR			
PI	EL 8+73.90	1140144.94	1409045.32
PC	EL 9+68.51	1140139.22	1408950.89
TANGENT DIRECTION:	S 86°31'54" W		
TANGENT LENGTH:	94.61		
ELEMENT: CIRCULAR			
PC	EL 9+68.51	1140139.22	1408950.89
PI	EL 9+72.37	1140138.98	1408947.03
CC		1140393.75	1408935.46
PT	EL 9+76.24	1140138.87	1408943.17
RADIUS:	255.00		
DELTA:	1°44'09" RIGHT		
DEGREE OF CURVATURE(ARC):	22°28'08"		
LENGTH:	7.73		
TANGENT:	3.86		
CHORD:	7.72		
ELEMENT: LINEAR			
PT	EL 9+76.24	1140138.87	1408943.17
PC	EL 11+50.24	1140133.60	1408769.25
TANGENT DIRECTION:	S 88°16'03" W		
TANGENT LENGTH:	174.00		
ELEMENT: CIRCULAR			
PC	EL 11+50.24	1140133.60	1408769.25
PI	EL 11+53.95	1140133.49	1408765.54
CC		1139888.72	1408776.65
PT	EL 11+57.66	1140133.27	1408761.83
RADIUS:	245.00		
DELTA:	1°44'09" LEFT		
DEGREE OF CURVATURE(ARC):	23°23'10"		
LENGTH:	7.42		
TANGENT:	3.71		
CHORD:	7.42		
ELEMENT: LINEAR			
PT	EL 11+57.66	1140133.27	1408761.83
PC	EL 11+68.98	1140132.58	1408750.53
TANGENT DIRECTION:	S 86°31'54" W		
TANGENT LENGTH:	11.32		
ELEMENT: CIRCULAR			
PC	EL 11+68.98	1140132.58	1408750.53
PI	EL 11+79.98	1140131.92	1408739.56
CC		1139888.03	1408765.35
PT	EL 11+90.96	1140130.27	1408728.68
RADIUS:	245.00		
DELTA:	5°08'22" LEFT		
DEGREE OF CURVATURE(ARC):	23°23'10"		
LENGTH:	21.98		
TANGENT:	11.00		
CHORD:	21.97		
ELEMENT: LINEAR			
PT	EL 11+90.96	1140130.27	1408728.68
PC	EL 12+02.01	1140128.62	1408717.76
TANGENT DIRECTION:	S 81°23'32" W		
TANGENT LENGTH:	11.05		
ELEMENT: CIRCULAR			
PC	EL 12+02.01	1140128.62	1408717.76
PI	EL 12+13.45	1140126.91	1408706.44
CC		1140380.75	1408679.59
PT	EL 12+24.88	1140126.21	1408695.02
RADIUS:	255.00		
DELTA:	5°08'22" RIGHT		
DEGREE OF CURVATURE(ARC):	22°28'08"		
LENGTH:	22.87		
TANGENT:	11.44		
CHORD:	22.87		
ELEMENT: LINEAR			
PT	EL 12+24.88	1140126.21	1408695.02
POE	EL 17+53.96	1140094.21	1408166.91
TANGENT DIRECTION:	S 86°31'54" W		
TANGENT LENGTH:	529.08		

ALIGNMENT NAME: R (ROBINSON DRIVE)

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
POB	R 10+00.00	1143093.16	1408588.94
EQNBK	0+00.00	1143093.16	1408588.94
EQNAHD	R 10+00.00	1143093.16	1408588.94
PC	R 10+26.72	1143096.78	1408562.47
TANGENT DIRECTION:	N 82°12'33" W		
TANGENT LENGTH:	26.72		
ELEMENT: CIRCULAR			
PC	R 10+26.72	1143096.78	1408562.47
PI	R 11+34.45	1143111.38	1408455.74
CC		1143953.79	1408679.73
PCC	R 12+41.07	1143151.72	1408355.85
RADIUS:	865.00		
DELTA:	14°11'53" RIGHT		
DEGREE OF CURVATURE(ARC):	6°37'26"		
LENGTH:	214.35		
TANGENT:	107.73		
CHORD:	213.80		
ELEMENT: CIRCULAR			
PCC	R 12+41.07	1143151.72	1408355.85
PI	R 13+77.82	1143202.92	1408229.05
CC		1144000.16	1408698.45
PRC	R 15+12.56	1143288.96	1408122.76
RADIUS:	915.00		
DELTA:	17°00'01" RIGHT		
DEGREE OF CURVATURE(ARC):	6°15'43"		
LENGTH:	271.49		
TANGENT:	136.75		
CHORD:	270.49		
ELEMENT: CIRCULAR			
PRC	R 15+12.56	1143288.96	1408122.76
PI	R 17+29.76	1143425.62	1407953.93
CC		1142706.01	1407650.88
PRC	R 19+35.40	1143450.91	1407738.20
RADIUS:	750.00		
DELTA:	32°18'09" LEFT		
DEGREE OF CURVATURE(ARC):	7°38'22"		
LENGTH:	422.84		
TANGENT:	217.20		
CHORD:	417.26		
ELEMENT: CIRCULAR			
PRC	R 19+35.40	1143450.91	1407738.20
PI	R 21+24.52	1143472.93	1407550.37
CC		1144012.06	1407803.99
PRC	R 23+00.39	1143603.59	1407413.64
RADIUS:	565.00		
DELTA:	37°00'49" RIGHT		
DEGREE OF CURVATURE(ARC):	10°08'27"		
LENGTH:	365.00		
TANGENT:	189.12		
CHORD:	358.68		
ELEMENT: CIRCULAR			
PRC	R 23+00.39	1143603.59	1407413.64
PI	R 23+16.58	1143614.77	1407401.94
CC		1143545.75	1407358.37
PCC	R 23+32.33	1143620.52	1407386.82
RADIUS:	80.00		
DELTA:	22°52'19" LEFT		
DEGREE OF CURVATURE(ARC):	71°37'11"		
LENGTH:	31.94		
TANGENT:	16.18		
CHORD:	31.72		
ELEMENT: CIRCULAR			
PCC	R 23+32.33	1143620.52	1407386.82
PI	R 23+68.70	1143633.46	1407352.82
CC		1143461.63	1407326.37
PT	R 24+04.00	1143631.35	1407316.51
RADIUS:	170.00		
DELTA:	24°09'17" LEFT		
DEGREE OF CURVATURE(ARC):	33°42'12"		
LENGTH:	71.67		
TANGENT:	36.37		
CHORD:	71.14		
ELEMENT: LINEAR			
PT	R 24+04.00	1143631.35	1407316.51
POE	R 25+95.80	1143620.22	1407125.03
TANGENT DIRECTION:	S 86°40'24" W		
TANGENT LENGTH:	191.80		

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
091001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
NONE

ISSUE DATE
11/2018

STATE OF NEW YORK * EVAN B. SCHMID * 078871 * LICENSED PROFESSIONAL ENGINEER

FISHER ASSOCIATES
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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
SURVEY CONTROL - HORIZONTAL ALIGNMENTS

DRAWING NO.
SC-3

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ALIGNMENT NAME: SR (SOUTH AVE ROADWAY)

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
POB	SR 10+00.00	1140076.46	1406999.82
EQNBK	0+00.00	1140076.46	1406999.82
EQNAHD	SR 10+00.00	1140076.46	1406999.82
PI	SR 13+98.25	1140448.27	1407142.51
TANGENT DIRECTION:	N 20°59'41" E		
TANGENT LENGTH:	398.25		
ELEMENT: LINEAR			
PI	SR 13+98.25	1140448.27	1407142.51
PC	SR 15+31.55	1140571.40	1407193.58
TANGENT DIRECTION:	N 22°31'49" E		
TANGENT LENGTH:	133.30		
ELEMENT: CIRCULAR			
PC	SR 15+31.55	1140571.40	1407193.58
PI	SR 15+91.44	1140626.72	1407216.53
CC		1139805.06	1409040.94
PT	SR 16+51.29	1140680.56	1407242.74
RADIUS:	2000.00		
DELTA:	3°25'48" RIGHT		
DEGREE OF CURVATURE(ARC):	2°51'53"		
LENGTH:	119.73		
TANGENT:	59.88		
CHORD:	119.72		
ELEMENT: LINEAR			
PT	SR 16+51.29	1140680.56	1407242.74
PI	SR 18+66.18	1140873.77	1407336.81
TANGENT DIRECTION:	N 25°57'37" E		
TANGENT LENGTH:	214.89		
ELEMENT: LINEAR			
PI	SR 18+66.18	1140873.77	1407336.81
PI	SR 21+26.06	1141109.31	1407446.61
TANGENT DIRECTION:	N 24°59'34" E		
TANGENT LENGTH:	259.88		
ELEMENT: LINEAR			
PI	SR 21+26.06	1141109.31	1407446.61
PI	SR 25+06.99	1141453.53	1407609.77
TANGENT DIRECTION:	N 25°21'38" E		
TANGENT LENGTH:	380.93		
ELEMENT: LINEAR			
PI	SR 25+06.99	1141453.53	1407609.77
PI	SR 28+39.77	1141753.81	1407753.21
TANGENT DIRECTION:	N 25°32'00" E		
TANGENT LENGTH:	332.78		
ELEMENT: LINEAR			
PI	SR 28+39.77	1141753.81	1407753.21
PI	SR 31+04.63	1141992.73	1407867.53
TANGENT DIRECTION:	N 25°34'15" E		
TANGENT LENGTH:	264.86		
ELEMENT: LINEAR			
PI	SR 31+04.63	1141992.73	1407867.53
PC	SR 37+34.20	1142554.86	1408151.03
TANGENT DIRECTION:	N 26°45'48" E		
TANGENT LENGTH:	629.57		
ELEMENT: CIRCULAR			
PC	SR 37+34.20	1142554.86	1408151.03
PI	SR 38+40.85	1142650.08	1408199.05
CC		1142354.47	1408548.36
PT	SR 39+43.55	1142713.19	1408285.02
RADIUS:	445.00		
DELTA:	26°57'14" RIGHT		
DEGREE OF CURVATURE(ARC):	12°52'32"		
LENGTH:	209.34		
TANGENT:	106.65		
CHORD:	207.42		
ELEMENT: LINEAR			
PT	SR 39+43.55	1142713.19	1408285.02
PC	SR 41+38.44	1142828.52	1408442.12
TANGENT DIRECTION:	N 53°43'02" E		
TANGENT LENGTH:	194.89		
ELEMENT: CIRCULAR			
PC	SR 41+38.44	1142828.52	1408442.12
PI	SR 42+90.98	1142918.79	1408565.09
CC		1143118.72	1408229.09
PT	SR 44+27.00	1143069.92	1408585.76
RADIUS:	360.00		
DELTA:	45°55'35" LEFT		
DEGREE OF CURVATURE(ARC):	15°54'56"		
LENGTH:	288.56		
TANGENT:	152.54		
CHORD:	280.90		
ELEMENT: LINEAR			
PT	SR 44+27.00	1143069.92	1408585.76
POE	SR 46+01.27	1143242.58	1408609.39
TANGENT DIRECTION:	N 7°47'27" E		
TANGENT LENGTH:	174.26		

ALIGNMENT NAME: SS (SOUTH AVE TRAIL)

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
POB	SS 31+55.49	1141122.60	1407486.89
EQNBK	0+00.00	1141122.60	1407486.89
EQNAHD	SS 31+55.49	1141122.60	1407486.89
PI	SS 31+93.96	1141157.76	1407502.49
TANGENT DIRECTION:	N 23°55'13" E		
TANGENT LENGTH:	38.46		
ELEMENT: LINEAR			
PI	SS 31+93.96	1141157.76	1407502.49
PI	SS 32+91.73	1141245.96	1407544.68
TANGENT DIRECTION:	N 25°33'51" E		
TANGENT LENGTH:	97.77		
ELEMENT: LINEAR			
PI	SS 32+91.73	1141245.96	1407544.68
PI	SS 33+33.64	1141283.61	1407563.10
TANGENT DIRECTION:	N 26°04'19" E		
TANGENT LENGTH:	41.91		
ELEMENT: LINEAR			
PI	SS 33+33.64	1141283.61	1407563.10
PI	SS 33+86.26	1141331.24	1407585.45
TANGENT DIRECTION:	N 25°08'30" E		
TANGENT LENGTH:	52.61		
ELEMENT: LINEAR			
PI	SS 33+86.26	1141331.24	1407585.45
PI	SS 34+50.15	1141388.81	1407613.15
TANGENT DIRECTION:	N 25°41'44" E		
TANGENT LENGTH:	63.89		
ELEMENT: LINEAR			
PI	SS 34+50.15	1141388.81	1407613.15
PC	SS 34+86.69	1141421.80	1407628.86
TANGENT DIRECTION:	N 25°27'36" E		
TANGENT LENGTH:	36.54		
ELEMENT: CIRCULAR			
PC	SS 34+86.69	1141421.80	1407628.86
PI	SS 35+05.44	1141438.73	1407636.92
CC		1141550.77	1407358.00
PRC	SS 35+24.14	1141456.54	1407642.81
RADIUS:	300.00		
DELTA:	7°09'13" LEFT		
DEGREE OF CURVATURE(ARC):	19°05'55"		
LENGTH:	37.46		
TANGENT:	18.75		
CHORD:	37.43		
ELEMENT: CIRCULAR			
PRC	SS 35+24.14	1141456.54	1407642.81
PI	SS 35+30.29	1141462.37	1407644.74
CC		1141425.13	1407737.75
PT	SS 35+36.41	1141467.92	1407647.37
RADIUS:	100.00		
DELTA:	7°01'50" RIGHT		
DEGREE OF CURVATURE(ARC):	57°17'45"		
LENGTH:	12.27		
TANGENT:	6.14		
CHORD:	12.26		
ELEMENT: LINEAR			
PT	SS 35+36.41	1141467.92	1407647.37
PI	SS 35+64.65	1141493.44	1407659.45
TANGENT DIRECTION:	N 25°20'13" E		
TANGENT LENGTH:	28.23		
ELEMENT: LINEAR			
PI	SS 35+64.65	1141493.44	1407659.45
PC	SS 36+02.63	1141527.72	1407675.83
TANGENT DIRECTION:	N 25°32'00" E		
TANGENT LENGTH:	37.99		
ELEMENT: CIRCULAR			
PC	SS 36+02.63	1141527.72	1407675.83
PI	SS 36+08.18	1141532.73	1407678.22
CC		1141484.61	1407766.06
PT	SS 36+13.73	1141537.44	1407681.15
RADIUS:	100.00		
DELTA:	6°21'19" RIGHT		
DEGREE OF CURVATURE(ARC):	57°17'45"		
LENGTH:	11.09		
TANGENT:	5.55		
CHORD:	11.09		
ELEMENT: LINEAR			
PT	SS 36+13.73	1141537.44	1407681.15
PC	SS 36+31.80	1141552.79	1407690.70
TANGENT DIRECTION:	N 31°53'19" E		
TANGENT LENGTH:	18.08		
ELEMENT: CIRCULAR			
PC	SS 36+31.80	1141552.79	1407690.70
PI	SS 36+37.29	1141557.45	1407693.60
CC		1141605.62	1407605.80
PT	SS 36+42.76	1141562.39	1407695.97
RADIUS:	100.00		
DELTA:	6°16'45" LEFT		
DEGREE OF CURVATURE(ARC):	57°17'45"		
LENGTH:	10.96		
TANGENT:	5.49		
CHORD:	10.95		

CONTINUED - ALIGNMENT NAME: SS (SOUTH AVE TRAIL)

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
PT	SS 36+42.76	1141562.39	1407695.97
PI	SS 38+48.79	1141748.18	1407785.02
TANGENT DIRECTION:	N 25°36'34" E		
TANGENT LENGTH:	206.03		
ELEMENT: LINEAR			
PI	SS 38+48.79	1141748.18	1407785.02
PI	SS 40+01.78	1141886.19	1407851.04
TANGENT DIRECTION:	N 25°33'54" E		
TANGENT LENGTH:	152.99		
ELEMENT: LINEAR			
PI	SS 40+01.78	1141886.19	1407851.04
POE	SS 41+04.84	1141978.93	1407896.00
TANGENT DIRECTION:	N 25°51'49" E		
TANGENT LENGTH:	103.06		

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
0910011

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
NONE

ISSUE DATE
11/2018

STATE OF NEW YORK * JOSEPH B. SCHMID * 072857 * LICENSED PROFESSIONAL ENGINEER

FISHER ASSOCIATES
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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
SURVEY CONTROL - HORIZONTAL ALIGNMENTS

DRAWING NO.
SC-4

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ALIGNMENT NAME: HP (OFFROAD TRAIL FROM ELMWOOD AVE TO SOUTH AVE)

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
POB	HP 1+00.00	1140181.05	1408180.98
EQNBK	0+00.00	1140181.05	1408180.98
EQNAHD	HP 1+00.00	1140181.05	1408180.98
PI	HP 2+39.57	1140312.85	1408226.90
TANGENT DIRECTION:	N 19°12'35" E		
TANGENT LENGTH:	139.57		
ELEMENT: LINEAR			
PI	HP 2+39.57	1140312.85	1408226.90
PI	HP 4+49.56	1140511.15	1408295.97
TANGENT DIRECTION:	N 19°12'15" E		
TANGENT LENGTH:	209.99		
ELEMENT: LINEAR			
PI	HP 4+49.56	1140511.15	1408295.97
PI	HP 5+64.12	1140617.59	1408338.36
TANGENT DIRECTION:	N 21°42'58" E		
TANGENT LENGTH:	114.56		
ELEMENT: LINEAR			
PI	HP 5+64.12	1140617.59	1408338.36
PC	HP 7+71.76	1140811.70	1408412.07
TANGENT DIRECTION:	N 20°47'26" E		
TANGENT LENGTH:	207.64		
ELEMENT: CIRCULAR			
PC	HP 7+71.76	1140811.70	1408412.07
PI	HP 8+48.91	1140883.83	1408439.45
CC		1140841.78	1408332.85
PT	HP 8+96.93	1140917.84	1408370.20
RADIUS:	84.73		
DELTA:	84°38'23" LEFT		
DEGREE OF CURVATURE(ARC):	67°37'13"		
LENGTH:	125.17		
TANGENT:	77.15		
CHORD:	114.09		
ELEMENT: LINEAR			
PT	HP 8+96.93	1140917.84	1408370.20
PI	HP 9+81.76	1140955.23	1408294.05
TANGENT DIRECTION:	N 63°50'57" W		
TANGENT LENGTH:	84.83		
ELEMENT: LINEAR			
PI	HP 9+81.76	1140955.23	1408294.05
PI	HP 10+35.28	1140977.67	1408245.46
TANGENT DIRECTION:	N 65°12'19" W		
TANGENT LENGTH:	53.52		
ELEMENT: LINEAR			
PI	HP 10+35.28	1140977.67	1408245.46
PI	HP 10+82.83	1141003.20	1408205.35
TANGENT DIRECTION:	N 57°31'30" W		
TANGENT LENGTH:	47.55		
ELEMENT: LINEAR			
PI	HP 10+82.83	1141003.20	1408205.35
PC	HP 11+11.03	1141021.30	1408183.71
TANGENT DIRECTION:	N 50°05'22" W		
TANGENT LENGTH:	28.20		
ELEMENT: CIRCULAR			
PC	HP 11+11.03	1141021.30	1408183.71
PI	HP 11+33.58	1141035.77	1408166.41
CC		1140994.45	1408161.26
PT	HP 11+51.10	1141025.99	1408146.09
RADIUS:	35.00		
DELTA:	65°35'33" LEFT		
DEGREE OF CURVATURE(ARC):	163°42'08"		
LENGTH:	40.07		
TANGENT:	22.55		
CHORD:	37.92		
ELEMENT: LINEAR			
PT	HP 11+51.10	1141025.99	1408146.09
PI	HP 11+78.02	1141014.32	1408121.83
TANGENT DIRECTION:	S 64°19'05" W		
TANGENT LENGTH:	26.92		
ELEMENT: LINEAR			
PI	HP 11+78.02	1141014.32	1408121.83
PI	HP 12+12.54	1140994.87	1408093.31
TANGENT DIRECTION:	S 55°42'35" W		
TANGENT LENGTH:	34.52		
ELEMENT: LINEAR			
PI	HP 12+12.54	1140994.87	1408093.31
PC	HP 12+34.20	1140983.94	1408074.61
TANGENT DIRECTION:	S 59°40'57" W		
TANGENT LENGTH:	21.65		
ELEMENT: CIRCULAR			
PC	HP 12+34.20	1140983.94	1408074.61
PI	HP 12+47.54	1140977.21	1408063.10
CC		1141008.98	1408059.98
PT	HP 12+59.21	1140981.57	1408050.49
RADIUS:	29.00		
DELTA:	49°24'44" RIGHT		
DEGREE OF CURVATURE(ARC):	197°34'18"		
LENGTH:	25.01		
TANGENT:	13.34		
CHORD:	24.24		

CONTINUED - ALIGNMENT NAME: HP (OFFROAD TRAIL FROM ELMWOOD AVE TO SOUTH AVE)

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
PT	HP 12+59.21	1140981.57	1408050.49
PI	HP 12+94.95	1140993.27	1408016.71
TANGENT DIRECTION:	N 70°54'20" W		
TANGENT LENGTH:	35.74		
ELEMENT: LINEAR			
PI	HP 12+94.95	1140993.27	1408016.71
PI	HP 13+31.77	1141005.38	1407981.94
TANGENT DIRECTION:	N 70°48'01" W		
TANGENT LENGTH:	36.82		
ELEMENT: LINEAR			
PI	HP 13+31.77	1141005.38	1407981.94
PI	HP 13+67.44	1141012.41	1407946.97
TANGENT DIRECTION:	N 78°37'19" W		
TANGENT LENGTH:	35.67		
ELEMENT: LINEAR			
PI	HP 13+67.44	1141012.41	1407946.97
PI	HP 14+17.80	1141021.96	1407897.52
TANGENT DIRECTION:	N 79°04'24" W		
TANGENT LENGTH:	50.36		
ELEMENT: LINEAR			
PI	HP 14+17.80	1141021.96	1407897.52
PI	HP 14+32.67	1141026.99	1407883.53
TANGENT DIRECTION:	N 70°14'42" W		
TANGENT LENGTH:	14.87		
ELEMENT: LINEAR			
PI	HP 14+32.67	1141026.99	1407883.53
PC	HP 15+11.55	1140957.37	1407846.43
TANGENT DIRECTION:	S 28°03'01" W		
TANGENT LENGTH:	78.88		
ELEMENT: CIRCULAR			
PC	HP 15+11.55	1140957.37	1407846.43
PI	HP 15+40.18	1140932.11	1407832.97
CC		1140971.48	1407819.96
PT	HP 15+57.27	1140944.37	1407807.11
RADIUS:	30.00		
DELTA:	87°18'38" RIGHT		
DEGREE OF CURVATURE(ARC):	190°59'09"		
LENGTH:	45.72		
TANGENT:	28.62		
CHORD:	41.42		
ELEMENT: LINEAR			
PT	HP 15+57.27	1140944.37	1407807.11
PC	HP 16+70.93	1140993.05	1407704.40
TANGENT DIRECTION:	N 64°38'21" W		
TANGENT LENGTH:	113.66		
ELEMENT: CIRCULAR			
PC	HP 16+70.93	1140993.05	1407704.40
PI	HP 16+94.40	1141003.10	1407683.19
CC		1141015.64	1407715.11
PT	HP 17+08.62	1141024.90	1407691.88
RADIUS:	25.00		
DELTA:	86°22'28" RIGHT		
DEGREE OF CURVATURE(ARC):	229°10'59"		
LENGTH:	37.69		
TANGENT:	23.47		
CHORD:	34.22		
ELEMENT: LINEAR			
PT	HP 17+08.62	1141024.90	1407691.88
POE	HP 17+33.65	1141048.15	1407701.15
TANGENT DIRECTION:	N 21°44'07" E		
TANGENT LENGTH:	25.03		

ALIGNMENT NAME: HD (16' WIDE HIGHLAND PARK TRAIL/DRIVEWAY)

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
POB	HD 1+00.00	1141043.55	1407710.74
EQNBK	0+00.00	1141043.55	1407710.74
EQNAHD	HD 1+00.00	1141043.55	1407710.74
POE	HD 3+36.78	1141145.94	1407497.24
TANGENT DIRECTION:	N 64°22'48" W		
TANGENT LENGTH:	236.78		

ALIGNMENT NAME: M (MOUNT HOPE AVE)

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
POB	M 10+00.00	1143505.27	1407145.35
EQNBK	0+00.00	1143505.27	1407145.35
EQNAHD	M 10+00.00	1143505.27	1407145.35
PI	M 11+16.73	1143620.22	1407125.03
TANGENT DIRECTION:	N 10°01'39" W		
TANGENT LENGTH:	116.73		
ELEMENT: LINEAR			
PI	M 11+16.73	1143620.22	1407125.03
PC	M 11+98.77	1143700.98	1407110.59
TANGENT DIRECTION:	N 10°07'53" W		
TANGENT LENGTH:	82.04		
ELEMENT: CIRCULAR			
PC	M 11+98.77	1143700.98	1407110.59
PI	M 12+68.05	1143769.17	1407098.41
CC		1143313.99	1404944.90
PT	M 13+37.28	1143836.47	1407081.96
RADIUS:	2200.00		
DELTA:	3°36'26" LEFT		
DEGREE OF CURVATURE(ARC):	2°36'16"		
LENGTH:	138.51		
TANGENT:	69.28		
CHORD:	138.48		
ELEMENT: LINEAR			
PT	M 13+37.28	1143836.47	1407081.96
PI	M 15+56.71	1144049.63	1407029.84
TANGENT DIRECTION:	N 13°44'19" W		
TANGENT LENGTH:	219.44		
ELEMENT: LINEAR			
PI	M 15+56.71	1144049.63	1407029.84
PI	M 17+09.47	1144197.72	1406992.39
TANGENT DIRECTION:	N 14°11'25" W		
TANGENT LENGTH:	152.76		
ELEMENT: LINEAR			
PI	M 17+09.47	1144197.72	1406992.39
POE	M 18+78.20	1144361.64	1406952.37
TANGENT DIRECTION:	N 13°43'17" W		
TANGENT LENGTH:	168.73		

ALIGNMENT NAME: MC (MCLEAN STREET)

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
POB	MC 10+00.00	1144306.64	1406965.80
EQNBK	0+00.00	1144306.64	1406965.80
EQNAHD	MC 10+00.00	1144306.64	1406965.80
POE	MC 19+24.87	1144269.66	1406041.67
TANGENT DIRECTION:	S 87°42'31" W		
TANGENT LENGTH:	924.87		

ALIGNMENT NAME: W (JOSEPH C. WILSON BOULEVARD)

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
POB	W 10+00.00	1144339.16	1406068.94
EQNBK	0+00.00	1144339.16	1406068.94
EQNAHD	W 10+00.00	1144339.16	1406068.94
POE	W 12+88.45	1144070.65	1405963.56
TANGENT DIRECTION:	S 21°25'41" W		
TANGENT LENGTH:	288.45		

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
091001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
NONE

ISSUE DATE
11/2018

STATE OF NEW YORK * JOSEPH B. SCHMID * 072857 * LICENSED PROFESSIONAL ENGINEER

FISHER ASSOCIATES
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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
SURVEY CONTROL - HORIZONTAL ALIGNMENTS

DRAWING NO.
SC-5

SHEET 30 OF 110

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ALIGNMENT NAME: ST JOHNS

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PC	SJ 2+00.00	1136584.90	1409822.99
PI	SJ 2+65.29	1136588.55	1409888.18
CC		1136684.74	1409817.40
EQNBK	0+00.00	1136584.90	1409822.99
EQNAHD	SJ 2+00.00	1136584.90	1409822.99
PT	SJ 3+15.68	1136649.69	1409911.06
RADIUS:	100.00		
DELTA:	66°16'45" LEFT		
DEGREE OF CURVATURE(ARC):	57°17'45"		
LENGTH:	115.68		
TANGENT:	65.29		
CHORD:	109.34		
ELEMENT: LINEAR			
PT	SJ 3+15.68	1136649.69	1409911.06
PI	SJ 4+68.89	1136793.19	1409964.75
TANGENT DIRECTION:	N 20°30'55" E		
TANGENT LENGTH:	153.21		
ELEMENT: LINEAR			
PI	SJ 4+68.89	1136793.19	1409964.75
PI	SJ 7+27.07	1137035.82	1410053.00
TANGENT DIRECTION:	N 19°59'10" E		
TANGENT LENGTH:	258.18		
ELEMENT: LINEAR			
PI	SJ 7+27.07	1137035.82	1410053.00
PI	SJ 9+27.11	1137224.07	1410120.64
TANGENT DIRECTION:	N 19°45'57" E		
TANGENT LENGTH:	200.04		
ELEMENT: LINEAR			
PI	SJ 9+27.11	1137224.07	1410120.64
PC	SJ 18+43.32	1138081.83	1410442.67
TANGENT DIRECTION:	N 20°34'39" E		
TANGENT LENGTH:	916.22		
ELEMENT: CIRCULAR			
PC	SJ 18+43.32	1138081.83	1410442.67
PI	SJ 18+64.56	1138101.72	1410450.14
CC		1138116.98	1410349.05
PT	SJ 18+85.18	1138122.92	1410448.88
RADIUS:	100.00		
DELTA:	23°59'00" LEFT		
DEGREE OF CURVATURE(ARC):	57°17'45"		
LENGTH:	41.86		
TANGENT:	21.24		
CHORD:	41.55		
ELEMENT: LINEAR			
PT	SJ 18+85.18	1138122.92	1410448.88
PC	SJ 20+89.34	1138326.71	1410436.75
TANGENT DIRECTION:	N 3°24'21" W		
TANGENT LENGTH:	204.15		
ELEMENT: CIRCULAR			
PC	SJ 20+89.34	1138326.71	1410436.75
PI	SJ 22+86.25	1138523.28	1410425.05
CC		1138320.77	1410336.92
PRC	SJ 23+09.52	1138397.87	1410273.24
RADIUS:	100.00		
DELTA:	126°09'14" LEFT		
DEGREE OF CURVATURE(ARC):	57°17'45"		
LENGTH:	220.18		
TANGENT:	196.91		
CHORD:	178.32		
ELEMENT: CIRCULAR			
PRC	SJ 23+09.52	1138397.87	1410273.24
PI	SJ 23+41.89	1138377.25	1410248.28
CC		1138474.96	1410209.55
PT	SJ 23+72.14	1138375.17	1410215.97
RADIUS:	100.00		
DELTA:	35°52'45" RIGHT		
DEGREE OF CURVATURE(ARC):	57°17'45"		
LENGTH:	62.62		
TANGENT:	32.38		
CHORD:	61.60		
ELEMENT: LINEAR			
PT	SJ 23+72.14	1138375.17	1410215.97
PC	SJ 25+27.78	1138365.18	1410060.65
TANGENT DIRECTION:	S 86°19'10" W		
TANGENT LENGTH:	155.64		
ELEMENT: CIRCULAR			
PC	SJ 25+27.78	1138365.18	1410060.65
PI	SJ 25+77.52	1138361.98	1410011.01
CC		1138464.97	1410054.23
PRC	SJ 26+20.10	1138399.65	1409978.51
RADIUS:	100.00		
DELTA:	52°53'37" RIGHT		
DEGREE OF CURVATURE(ARC):	57°17'45"		
LENGTH:	92.32		
TANGENT:	49.74		
CHORD:	89.07		

ALIGNMENT NAME: ST JOHNS - CONTINUED

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
PRC	SJ 26+20.10	1138399.65	1409978.51
PI	SJ 26+90.37	1138452.85	1409932.61
CC		1138334.32	1409902.80
PT	SJ 27+42.61	1138427.69	1409866.99
RADIUS:	100.00		
DELTA:	70°11'40" LEFT		
DEGREE OF CURVATURE(ARC):	57°17'45"		
LENGTH:	122.51		
TANGENT:	70.27		
CHORD:	114.99		
ELEMENT: LINEAR			
PT	SJ 27+42.61	1138427.69	1409866.99
PC	SJ 27+61.96	1138420.76	1409848.92
TANGENT DIRECTION:	S 69°01'07" W		
TANGENT LENGTH:	19.35		
ELEMENT: CIRCULAR			
PC	SJ 27+61.96	1138420.76	1409848.92
PI	SJ 27+97.79	1138407.93	1409815.47
CC		1138469.31	1409830.30
PT	SJ 28+24.71	1138434.62	1409791.57
RADIUS:	52.00		
DELTA:	69°08'07" RIGHT		
DEGREE OF CURVATURE(ARC):	110°11'03"		
LENGTH:	62.75		
TANGENT:	35.83		
CHORD:	59.01		
ELEMENT: LINEAR			
PT	SJ 28+24.71	1138434.62	1409791.57
PC	SJ 28+47.28	1138451.44	1409776.51
TANGENT DIRECTION:	N 41°50'47" W		
TANGENT LENGTH:	22.57		
ELEMENT: CIRCULAR			
PC	SJ 28+47.28	1138451.44	1409776.51
PI	SJ 28+73.76	1138471.16	1409758.84
CC		1138493.47	1409823.44
PT	SJ 28+97.41	1138497.58	1409760.57
RADIUS:	63.00		
DELTA:	45°35'27" RIGHT		
DEGREE OF CURVATURE(ARC):	90°56'44"		
LENGTH:	50.13		
TANGENT:	26.48		
CHORD:	48.82		
ELEMENT: LINEAR			
PT	SJ 28+97.41	1138497.58	1409760.57
PC	SJ 30+69.92	1138669.72	1409771.84
TANGENT DIRECTION:	N 3°44'41" E		
TANGENT LENGTH:	172.51		
ELEMENT: CIRCULAR			
PC	SJ 30+69.92	1138669.72	1409771.84
PI	SJ 31+08.20	1138707.92	1409774.34
CC		1138663.19	1409871.62
PT	SJ 31+43.04	1138734.68	1409801.71
RADIUS:	100.00		
DELTA:	41°53'41" RIGHT		
DEGREE OF CURVATURE(ARC):	57°17'45"		
LENGTH:	73.12		
TANGENT:	38.28		
CHORD:	71.50		
ELEMENT: LINEAR			
PT	SJ 31+43.04	1138734.68	1409801.71
PC	SJ 32+52.70	1138811.36	1409880.11
TANGENT DIRECTION:	N 45°38'22" E		
TANGENT LENGTH:	109.66		
ELEMENT: CIRCULAR			
PC	SJ 32+52.70	1138811.36	1409880.11
PI	SJ 32+98.35	1138843.27	1409912.75
CC		1138882.85	1409810.19
PT	SJ 33+38.35	1138888.84	1409910.02
RADIUS:	100.00		
DELTA:	49°04'21" LEFT		
DEGREE OF CURVATURE(ARC):	57°17'45"		
LENGTH:	85.65		
TANGENT:	45.65		
CHORD:	83.05		
ELEMENT: LINEAR			
PT	SJ 33+38.35	1138888.84	1409910.02
PC	SJ 33+44.00	1138894.48	1409909.68
TANGENT DIRECTION:	N 3°25'59" W		
TANGENT LENGTH:	5.65		
ELEMENT: CIRCULAR			
PC	SJ 33+44.00	1138894.48	1409909.68
PI	SJ 33+55.00	1138905.46	1409909.02
CC		1138893.83	1409898.70
PT	SJ 33+61.28	1138904.81	1409898.04
RADIUS:	11.00		
DELTA:	90°00'00" LEFT		
DEGREE OF CURVATURE(ARC):	520°52'15"		
LENGTH:	17.28		
TANGENT:	11.00		
CHORD:	15.56		

ALIGNMENT NAME: ST JOHNS - CONTINUED

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
PT	SJ 33+61.28	1138904.81	1409898.04
PC	SJ 39+14.62	1138871.67	1409345.70
TANGENT DIRECTION:	S 86°34'01" W		
TANGENT LENGTH:	553.34		
ELEMENT: CIRCULAR			
PC	SJ 39+14.62	1138871.67	1409345.70
PI	SJ 39+45.56	1138869.82	1409314.80
CC		1138891.64	1409344.50
PT	SJ 39+54.50	1138898.74	1409325.80
RADIUS:	20.00		
DELTA:	114°15'20" RIGHT		
DEGREE OF CURVATURE(ARC):	286°28'44"		
LENGTH:	39.88		
TANGENT:	30.95		
CHORD:	33.60		
ELEMENT: LINEAR			
PT	SJ 39+54.50	1138898.74	1409325.80
PI	SJ 40+01.11	1138942.31	1409342.37
TANGENT DIRECTION:	N 20°49'21" E		
TANGENT LENGTH:	46.61		
ELEMENT: LINEAR			
PI	SJ 40+01.11	1138942.31	1409342.37
PI	SJ 41+00.49	1139035.90	1409375.82
TANGENT DIRECTION:	N 19°40'10" E		
TANGENT LENGTH:	99.39		
ELEMENT: LINEAR			
PI	SJ 41+00.49	1139035.90	1409375.82
PI	SJ 44+36.67	1139350.11	1409495.33
TANGENT DIRECTION:	N 20°49'21" E		
TANGENT LENGTH:	336.17		
ELEMENT: LINEAR			
PI	SJ 44+36.67	1139350.11	1409495.33
PI	SJ 44+86.68	1139396.49	1409514.03
TANGENT DIRECTION:	N 21°58'06" E		
TANGENT LENGTH:	50.01		
ELEMENT: LINEAR			
PI	SJ 44+86.68	1139396.49	1409514.03
PI	SJ 45+06.68	1139415.18	1409521.14
TANGENT DIRECTION:	N 20°49'21" E		
TANGENT LENGTH:	20.00		
ELEMENT: LINEAR			
PI	SJ 45+06.68	1139415.18	1409521.14
PI	SJ 45+56.69	1139462.27	1409537.98
TANGENT DIRECTION:	N 19°40'36" E		
TANGENT LENGTH:	50.01		
ELEMENT: LINEAR			
PI	SJ 45+56.69	1139462.27	1409537.98
PC	SJ 52+99.10	1140156.20	1409801.89
TANGENT DIRECTION:	N 20°49'21" E		
TANGENT LENGTH:	742.42		
ELEMENT: CIRCULAR			
PC	SJ 52+99.10	1140156.20	1409801.89
PI	SJ 53+07.03	1140163.61	1409804.71
CC		1140120.65	1409895.36
PRC	SJ 53+14.93	1140170.49	1409808.66
RADIUS:	100.00		
DELTA:	9°04'03" RIGHT		
DEGREE OF CURVATURE(ARC):	57°17'45"		
LENGTH:	15.83		
TANGENT:	7.93		
CHORD:	15.81		
ELEMENT: CIRCULAR			
PRC	SJ 53+14.93	1140170.49	1409808.66
PI	SJ 53+33.31	1140186.43	1409817.82
CC		1140200.39	1409756.64
PT	SJ 53+50.61	1140204.76	1409816.48
RADIUS:	60.00		
DELTA:	34°04'13" LEFT		
DEGREE OF CURVATURE(ARC):	95°29'35"		
LENGTH:	35.68		
TANGENT:	18.38		
CHORD:	35.16		
ELEMENT: LINEAR			
PT	SJ 53+50.61	1140204.76	1409816.48
POE	SJ 53+51.08	1140205.24	1409816.45
TANGENT DIRECTION:	N 4°10'49" W		
TANGENT LENGTH:	0.48		

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If an item bearing the seal of an engineer or land surveyor and bearing the notation "altered by" followed by his/her signature and the date of such alteration, and a specific description of the alteration.

REV	DESCRIPTION	DATE	BY
1			
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FA PROJECT NO.
0911001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
NONE

ISSUE DATE
11/2018

STATE OF NEW YORK * EVAN B. SCHMID * 072857 * LICENSED PROFESSIONAL ENGINEER

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
SURVEY CONTROL - HORIZONTAL ALIGNMENTS

DRAWING NO.
SC-6

SHEET 31 OF 110

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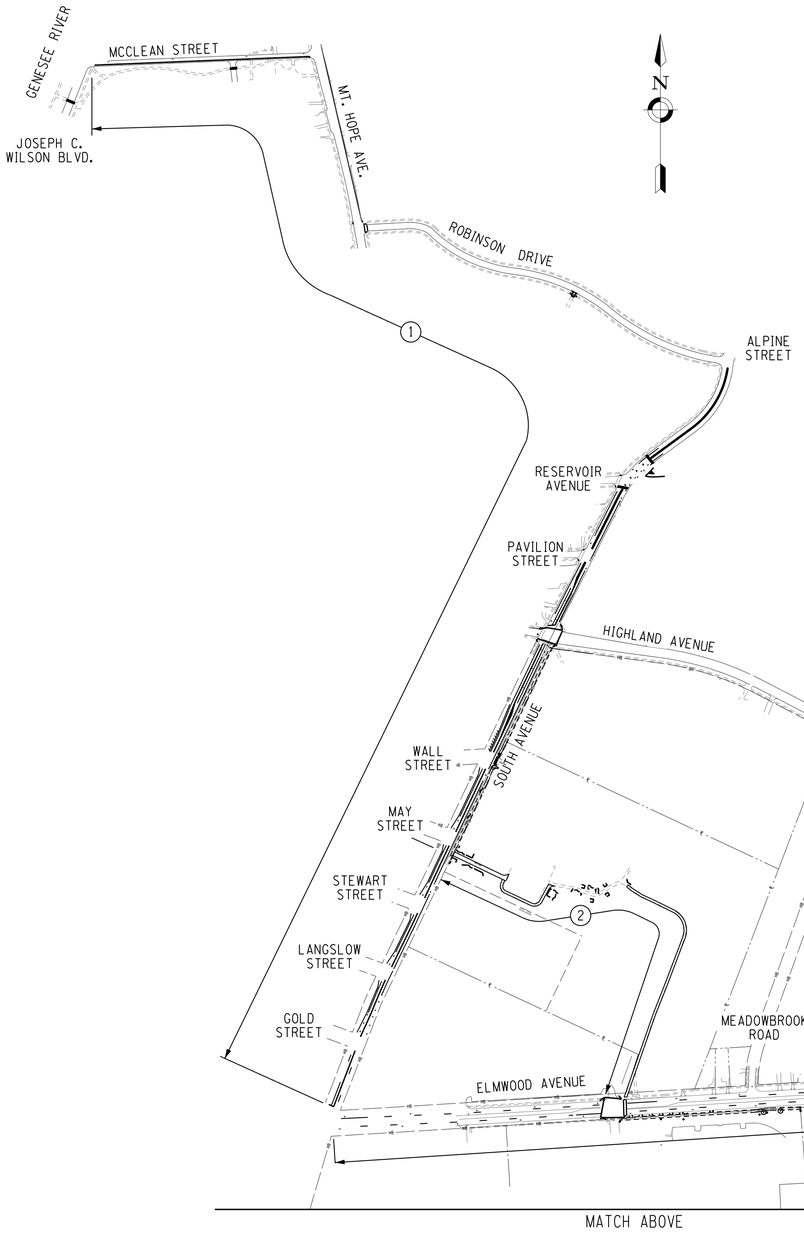

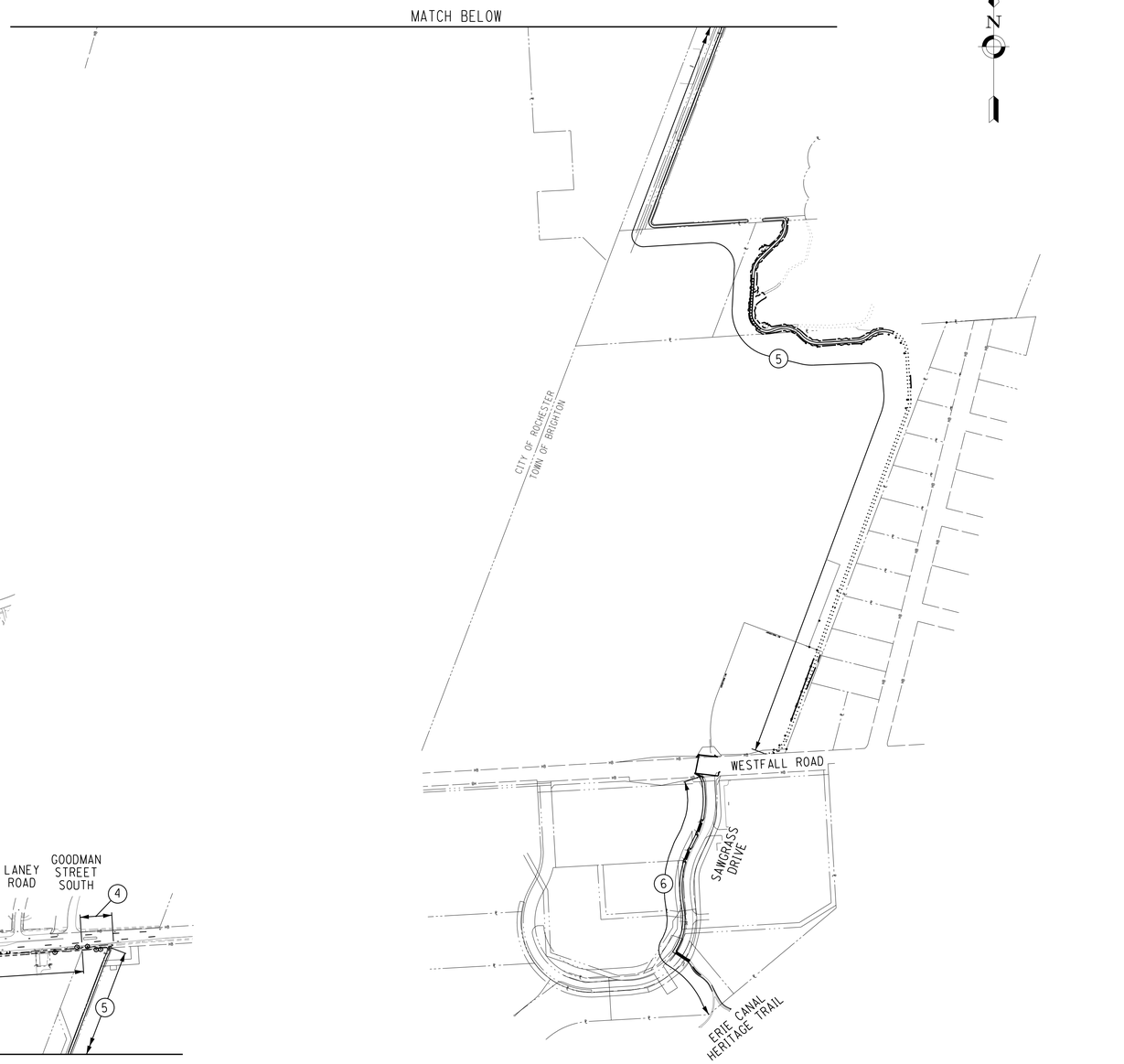

NOTES

1. PART NUMBERS REFER TO THE CORRESPONDING NUMBERS ON THE TABLE ON DWG. NO. MJ-2.

SCALE (FT)

0 300 600

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
091001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
AS SHOWN

ISSUE DATE
11/2018

STATE OF NEW YORK
STEVEN B. SCHMID
072857
LICENSED PROFESSIONAL ENGINEER

FISHER ASSOCIATES
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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
MAINTENANCE JURISDICTION PLAN

DRAWING NO.
MJ-1

SHEET 32 OF 110

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TABLE OF MAINTENANCE JURISDICTION

PART NO.	ROADWAY / TRAILWAY	LIMITS	FEATURES TO BE MAINTAINED	℄ MI	OWNING AGENCY	MAINTAINING AGENCY	AUTHORITY FOR MAINTENANCE
1	PEDESTRIAN TRAIL & BIKE TRAIL	JOSEPH C. WILSON BLVD. TO ELMWOOD AVE.	TRAIL SIGNS, TRAIL PAVEMENT MARKINGS	1.29	CITY OF ROCHESTER	CITY OF ROCHESTER	HIGHWAY LAW SECTION 151
2	PEDESTRIAN TRAIL & BIKE TRAIL	SOUTH AVE. TO ELMWOOD AVE.	ASPHALT TRAIL, TRAIL SIGNS	0.35	MONROE COUNTY	MONROE COUNTY	BY AGREEMENT
3	PEDESTRIAN TRAIL & BIKE TRAIL	SOUTH AVE. TO CITY / TOWN LINE	TRAIL SIGNS, TRAIL PAVEMENT MARKINGS	0.29	CITY OF ROCHESTER	CITY OF ROCHESTER	HIGHWAY LAW SECTION 151
4	PEDESTRIAN TRAIL & BIKE TRAIL	CITY / TOWN LINE TO ASPHALT TRAIL TO SOUTH	TRAIL SIGNS, TRAIL PAVEMENT MARKINGS	0.03	MONROE COUNTY	TOWN OF BRIGHTON	HIGHWAY LAW SECTION 151
5	PEDESTRIAN TRAIL & BIKE TRAIL	ELMWOOD AVE. TO WESTFALL RD.	ASPHALT TRAIL, STONE DUST TRAIL, TRAIL SIGNS, BOARDWALK	0.97	TOWN OF BRIGHTON	TOWN OF BRIGHTON	HIGHWAY LAW SECTION 151
6	PEDESTRIAN TRAIL & BIKE TRAIL	WESTFALL RD. TO ERIE CANAL HERITAGE TRAIL	CONCRETE TRAIL, TRAIL SIGNS, TRAIL PAVEMENT MARKINGS	0.22	TOWN OF BRIGHTON	TOWN OF BRIGHTON	HIGHWAY LAW SECTION 151

NOTES

1. PART NUMBERS REFER TO THE CORRESPONDING NUMBERS ON THE PLAN.
2. ALL EXISTING SANITARY SEWERS AND OTHER SEWERS NOT DEEMED TO BE PART OF THE PROJECT BY THE COMMISSIONER, WATERMAINS, HYDRANTS AND OTHER MUNICIPALLY OR PRIVATELY OWNED FACILITIES WITHIN THE LIMITS OF THE HIGHWAY ROW WHICH REMAIN IN SERVICE UNCHANGED, AND ALL SUCH FACILTIES RELOCATED OR PROTECTED AS A PART OF THE WORK PERFORMED UNDER THIS PROJECT, WHETHER CROSSING, LOCATED WITHIN OR ADJACENT TO THE ROW, SHALL BE MAINTAINED AS THE CASE MAY BE, BY THE MUNICIPALITY OR BY THE AGENCY OR UNIT OWNING OR HAVING CONTROL AND JURISDICTION.

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
091001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
AS SHOWN

ISSUE DATE
11/2018

STATE OF NEW YORK ★ ★ LICENSED PROFESSIONAL ENGINEER
JOSEPH B. SCHMID
072887

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
MAINTENANCE JURISDICTION PLAN

DRAWING NO.
MJ-2

SHEET 33 OF 110

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ASPHALT TRAIL

STATION	TO	STATION	LENGTH (FT)	WIDTH (FT)	ASPHALT SIDEWALK, ITEM 608.020102 (TONS)	STONE SUBBASE, ITEM 304.15 (CY)	NOTES
SG 1+00.00		SG 2+42.14	142	5' & VARIES	17	16	WIDEN EXISTING TRAIL TO 10', WIDENING ON RIGHT SIDE, 3" ASPHALT, 6" STONE
SG 2+14.22		SG 3+83.63	170	5' & VARIES	20	19	WIDEN EXISTING TRAIL TO 10', WIDENING ON LEFT SIDE, 3" ASPHALT, 6" STONE
SJ 22+00.00		SJ 28+13.00	613	10'	140	125	3" ASPHALT, 6" STONE
SJ 30+46.08		SJ 34+47.62	402	10'	92	82	3" ASPHALT, 6" STONE
SJ 35+10.70		SJ 48+00.00	1290	10'	294	263	3" ASPHALT, 6" STONE
SJ 48+00.00		SJ 49+00.00	100	10'	23	41	3" ASPHALT, 12" STONE, WRAP STONE IN GEOTEXTILE
SJ 49+00.00		SJ 53+49.80	450	10'	103	92	3" ASPHALT, 6" STONE
HP 1+00.00		HP 11+05.20	1006	10'	229	205	3" ASPHALT, 6" STONE
HP 14+38.00		HP 17+25.60	288	10'	66	59	3" ASPHALT, 6" STONE
HD 1+00.00		HD 3+32.04	233	16'	128	93	4.5" ASPHALT, 8" STONE
R 16+76.60		NA	13	12' & VARIES	7	5	DRIVEWAY, 4.5" ASPHALT, 8" STONE, LEFT SIDE OF ROBINSON DRIVE
TOTALS					1119	1000	

CONCRETE TRAIL

STATION	TO	STATION	LENGTH (FT)	WIDTH (FT)	CONCRETE SIDEWALK, ITEM 608.0101 (CY)	STONE SUBBASE, ITEM 304.15 (CY)	NOTES
SG 4+49.59		SG 8+65.98	417	10'	52	85	4" CONCRETE, 6" STONE
SG 9+13.77		SG 9+94.69	81	10'	10	17	4" CONCRETE, 6" STONE
SG 10+48.97		SG 12+48.03	200	10'	25	41	4" CONCRETE, 6" STONE
EL 0+85.60		EL 8+51.58	766	10'	95	157	4" CONCRETE, 6" STONE
EL 9+00.97		EL 17+63.62	863	10'	107	176	4" CONCRETE, 6" STONE
SS 31+69.90		SS 34+96.33	327	10'	41	67	4" CONCRETE, 6" STONE
SS 34+96.33		SS 35+26.33	30	TAPER FROM 10' TO 8'	4	6	4" CONCRETE, 6" STONE
SS 35+26.33		SS 35+73.04	47	8'	5	8	4" CONCRETE, 6" STONE
SS 36+02.55		SS 36+31.80	30	8'	3	5	4" CONCRETE, 6" STONE
SS 36+31.80		SS 36+61.80	30	TAPER FROM 8' TO 10'	4	6	4" CONCRETE, 6" STONE
SS 36+61.80		SS 40+84.74	423	10'	53	87	4" CONCRETE, 6" STONE
TOTALS					399	655	

STONE DUST TRAIL

STATION	TO	STATION	LENGTH (FT)	WIDTH (FT)	STONE DUST SIDEWALK, ITEM 304.01940004 (CY)	STONE SUBBASE, ITEM 304.15 (CY)	NOTES
SJ 2+00.00		SJ 5+00.00	300	10' & VARIES	19	62	2" STONE DUST, 6" STONE
SJ 5+00.00		SJ 8+00.00	300	10'	19	123	2" STONE DUST, 12" STONE, WRAP STONE IN GEOTEXTILE
SJ 8+00.00		SJ 12+50.00	450	10'	28	92	2" STONE DUST, 6" STONE
SJ 12+50.00		SJ 14+50.00	200	10'	12	82	2" STONE DUST, 12" STONE, WRAP STONE IN GEOTEXTILE
SJ 14+50.00		SJ 22+00.00	750	10'	46	153	2" STONE DUST, 6" STONE
TOTALS					123	512	

SIDEWALK RAMP LOCATION TABLE

STATION	SIDE	TYPE	SURFACE APPLIED DETECTABLE WARNING UNITS ITEM 608.20 (SY)	EMBEDDED DETECTABLE WARNING UNITS ITEM 608.21 (SY)	NOTES
SG 4+50	--	TYPE 7		2.3	
SG 8+65	--	TYPE 1		2.3	
SG 9+14	--	TYPE 1		2.3	
SG 9+95	--	TYPE 1		2.3	
SG 10+49	--	TYPE 1		2.3	
EL 8+59	--	NA	1.2		
EL 8+90	--	NA	1.2		
E 27+40	LT	NA	1.2		
E 27+38	RT	NA	1.2		
SS 35+65	--	TYPE 3		4.2	
SS 36+08	--	TYPE 1		1.8	
SR 34+42	LT	NA	1.2		
SR 34+48	LT	NA	1.2		
SR 37+66	LT	NA	1.2		
SR 38+12	LT	NA	1.2		
R 25+66	LT	NA	1.2		
R 25+68	RT	NA	1.2		
M 11+42	LT	NA	1.2		
M 11+42	RT	NA	1.2		
W 12+33	LT	NA	1.6		
W 12+33	RT	NA	1.6		
TOTAL			17.6	17.5	

CURB CUTTING TABLE

ITEM 520.60900002 - SAWCUTTING CURB

FROM STATION	OFFSET (FT)	TO STATION	OFFSET (FT)	RAMP OPENING WIDTH (FT)	FLARE WIDTHS (FT)	ITEM 520.60900002 (FT)	REMARKS
SG 4+49.70	8.00 LT	SG 4+49.60	8.00 RT	10.00	3.00	16.00	
SG 8+58.05	7.17 RT	SG 8+70.36	7.50 LT	13.50	3.00	19.50	
SG 9+08.53	7.31 LT	SG 9+23.24	6.84 RT	14.80	3.00	20.80	
SG 9+86.10	7.11 RT	SG 10+00.50	7.15 LT	14.50	3.00	20.50	
SG 10+43.76	7.29 LT	SG 10+56.96	7.17 RT	13.80	3.00	19.80	
SS 35+53.93	7.10 LT	SS 35+73.48	7.15 RT	19.00	3.00	25.00	
SS 36+13.95	6.12 LT	SS 36+02.07	6.22 RT	11.40	3.00	17.40	
R 16+70.65	28.55 LT	R 16+70.43	17.52 LT	5.00	3.00	11.00	
R 16+82.52	28.74 LT	R 16+82.86	17.73 LT	5.00	3.00	11.00	
					TOTAL =	161	

NOTE
1. SEE DETAIL - SAWCUTTING CURB FOR DRIVEWAYS OR SIDEWALK RAMP ON DWG. NO. MD-1.

ADD ALTERNATE #2

CONCRETE SIDEWALK - SPOT REPLACEMENTS

STATION	TO	STATION	SIDE	ASSUMED REPLACEMENT LENGTH (FT)	WIDTH (FT)	4" THICK CONCRETE SIDEWALK, ITEM 608.0101 (CY)	6" THICK STONE SUBBASE ITEM 304.15 (CY)	NOTES
SOUTH AVENUE								
SR 31+00		SR 44+20	LT	600	5	38	67	QUANTITY INCLUDES AN APPROXIMATE 50% SIDEWALK REPLACEMENT
ROBINSON DRIVE								
R 10+00		R 25+80	LT & RT	350	5	22	39	QUANTITY INCLUDES AN APPROXIMATE 25% SIDEWALK REPLACEMENT
R 16+62		R 16+92	LT	30	5	2	4	NEW SIDEWALK ACROSS EXISTING DRIVEWAY
MOUNT HOPE AVENUE								
M 10+00		M 18+30	LT	45	5	3	5	QUANTITY INCLUDES AN APPROXIMATE 5% SIDEWALK REPLACEMENT
MC LEAN STREET								
MC 10+00		MC 19+00	LT	400	7	35	60	QUANTITY INCLUDES AN APPROXIMATE 35% SIDEWALK REPLACEMENT
					TOTAL	100	175	

NOTES:

1. THE SPECIFIC LOCATIONS FOR SIDEWALK REPLACEMENT SHALL BE A.O.B.E.

2. REPLACEMENT QUANTITIES ARE PROVIDED FOR CONCRETE SIDEWALK REPLACEMENT ONLY, NO REPLACEMENT OF SLATE SIDEWALK WILL BE ALLOWED.

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
091001
PROJECT MANAGER
R. SCHMID
DRAWN BY
C. PERKINS
SCALE
NONE
ISSUE DATE
11/2018

STATE OF NEW YORK * BRIAN B. SCHMID * 072857 * LICENSED PROFESSIONAL ENGINEER

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TOWN OF BRIGHTON & CITY OF ROCHESTER
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TITLE OF DRAWING
MISCELLANEOUS TABLES

DRAWING NO.
MT-1

SHEET 34 OF 110

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TREE REMOVALS

STATION	OFFSET	TREE REMOVAL OVER 4" TO 6" DIAMETER BREAST HEIGHT, STUMP GRUBBED, ITEM 614.060104	TREE REMOVAL OVER 6" TO 12" DIAMETER BREAST HEIGHT, STUMP GRUBBED, ITEM 614.060204	TREE REMOVAL OVER 12" TO 18" DIAMETER BREAST HEIGHT, STUMP GRUBBED, ITEM 614.060304	TREE REMOVAL OVER 18" TO 24" DIAMETER BREAST HEIGHT, STUMP GRUBBED, ITEM 614.060404	TREE REMOVAL OVER 4" TO 6" DIAMETER BREAST HEIGHT, STUMP CUT FLUSH, ITEM 614.060102	TREE REMOVAL OVER 6" TO 12" DIAMETER BREAST HEIGHT, STUMP CUT FLUSH, ITEM 614.060202	TREE REMOVAL OVER 12" TO 18" DIAMETER BREAST HEIGHT, STUMP CUT FLUSH, ITEM 614.060302	TREE REMOVAL OVER 18" TO 24" DIAMETER BREAST HEIGHT, STUMP CUT FLUSH, ITEM 614.060402	TREE REMOVAL OVER 24" TO 36" DIAMETER BREAST HEIGHT, STUMP CUT FLUSH, ITEM 614.060502	DESCRIPTION
SG 4+71.10	1.95 LT	1									6"
SJ 22+97.92	2.87 RT			1							16" POPLAR
SJ 23+39.29	2.38 LT			1							16" POPLAR
SJ 23+40.33	0.72 LT			1							18" POPLAR
SJ 23+75.93	1.49 RT			1							18" POPLAR
SJ 23+91.16	9.63 LT						1				12" POPLAR
SJ 24+42.69	4.28 LT			1							18" POPLAR
SJ 24+46.75	3.87 LT		1								12" ASH
SJ 24+72.50	0.14 LT			1							16" POPLAR
SJ 24+86.97	2.30 LT			1							14" POPLAR
SJ 24+90.76	5.91 RT			1							18" POPLAR
SJ 25+39.57	3.13 LT		1								12" ASH
SJ 25+40.17	7.28 LT			1							14" POPLAR
SJ 26+74.98	4.45 RT		1								10" HICKORY
SJ 22+00 TO SJ 27+00	-	10	8								QUANTITY PROVIDED FOR MISCELLANEOUS TREE REMOVALS ALONG THIS SEGMENT
SJ 27+81.41	7.87 RT			1							18" HICKORY
SJ 28+03.32	6.09 LT			1							18" HICKORY
SJ 28+45.78	6.30 LT							1			14" MAPLE
SJ 28+67.76	5.34 RT								1		18" ASH
SJ 29+06.67	5.52 RT						1				12" MAPLE
SJ 29+38.56	6.45 LT							1			16" ASH
SJ 29+71.10	0.36 LT						1				10" ASH
SJ 29+71.09	5.59 LT						1				10" ASH
SJ 30+17.66	2.39 RT					1					2" - TWO BOLE ASH
SJ 30+35.37	6.26 RT						1				12" ASH
SJ 30+45.57	1.25 LT		1								12" ASH
SJ 30+66.29	7.95 LT			1							14" MAPLE
SJ 30+98.49	1.05 RT		1								12" HICKORY
SJ 31+34.12	0.54 LT		1								10" ASH
SJ 31+76.31	6.84 LT		1								12" ASH
SJ 31+96.47	8.96 LT		1								10" BASSWOOD
SJ 32+59.21	0.74 RT				1						20" OAK
SJ 33+32.35	9.43 LT									1	30" THREE BOLE POPLAR
SJ 35+00 TO SJ 40+00	-	10	8								QUANTITY PROVIDED FOR MISCELLANEOUS TREE REMOVALS ALONG THIS SEGMENT
EL 3+61.02	5.60 RT	1									
EL 11+57.77	4.55 RT	1									
TOTALS		23	24	12	1	1	5	2	1	1	

NOTES:

1. SEE THE TREE NOTES ON DWG. NO. GN-1 FOR DATE RESTRICTIONS FOR TREE REMOVALS AND HANDLING REQUIREMENTS FOR ASH TREE REMOVALS.

ITEM 604.070402 - ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES (ADJUST MANHOLE FRAME AND GRATE / COVER)

STATION	OFFSET	SIDE	APPROX. EXISTING GROUND ELEVATION	APPROX. PROPOSED GROUND ELEVATION	QUANTITY	REMARKS
SG 5+59.30	5.40	RT	510.66	511.14	1	SANITARY SEWER MANHOLE
EL 6+47.90	1.80	RT	520.94	520.91	0	TELEPHONE MANHOLE (BY OTHERS)
SS 32+88.68	1.70	RT	594.91	595.03	0	ELECTRIC MANHOLE (BY OTHERS)
SS 32+95.01	1.90	RT	595.10	595.16	0	ELECTRIC MANHOLE (BY OTHERS)
SS 38+63.97	0.10	LT	591.78	591.81	0	TELEPHONE MANHOLE (BY OTHERS)
				TOTAL =	1	

DRAINAGE STRUCTURE TABLE

DRAINAGE STRUCTURE						FRAME & COVER (TYPE & QTY.)	DESCRIPTION
STR. NO.	ID	STATION/ OFFSET	TOP	INV	ITEM, TYPE, & QTY.		
DS 2	-1	SJ 6+56.30 6.66 RT	516.00	513.50 N 514.23 W	ITEM 604.301911 3.20 FT	ITEM 655.1111 WELDED FRAME & RETICULINE GRATE #11 1 EA	INSTALL NEW DRAINAGE STRUCTURE AND CONNECT TO EXISTING 8" HDPE PIPES WITH TWO (2) 7.0 FT LENGTHS OF 8" PVC PIPES @ 0.50%, ITEM 605.16030008. COST FOR CONNECTIONS TO BE INCLUDED IN PRICE BID FOR PIPE. OUTLET TO NORTH WITH 42.0 FT OF 12" PERFORATED PIPE @ 0.00%, ITEM 605.98101218. SEE DETAILS ON DWG. NO. MD-3
DS 4	-1	SJ 22+73.50 11.10 LT	N/A	515.25	ITEM 603.171016 12" END SECTION 1 EA	---	INSTALL END SECTION AND CONNECT TO DS 4-2 WITH 20.0 FT OF 12" CSP @ 1.50%, ITEM 603.051018
DS 4	-2	SJ 22+64.40 10.70 RT	N/A	514.95	ITEM 603.171016 12" END SECTION 1 EA	---	INSTALL END SECTION
DS 4	-3	SJ 27+01.40 14.20 LT	N/A	514.58	ITEM 603.171016 12" END SECTION 1 EA	---	INSTALL END SECTION AND CONNECT TO DS 4-4 WITH 22.0 FT OF 12" CSP @ 1.18%, ITEM 603.051018
DS 4	-4	SJ 26+98.00 11.10 RT	N/A	514.32	ITEM 603.171016 12" END SECTION 1 EA	---	INSTALL END SECTION
DS 12	-1	HD 2+53.28 10.29 LT	589.90	UNKNOWN	ITEM 604.070401 ALTER DRAINAGE STRUCTURE 1 EA	---	CLEAN DRAINAGE STRUCTURE, ITEM 621.04 , SEE NOTE 3 REBUILD TOP OF DRAINAGE STRUCTURE, INSTALL NEW FRAME AND RESET GRATE, ITEM 604.070401, A.O.B.E.
DS 12	-2	HD 2+53.59 9.90 RT	589.90	UNKNOWN	ITEM 604.070401 ALTER DRAINAGE STRUCTURE 1 EA	---	CLEAN DRAINAGE STRUCTURE, ITEM 621.04 , SEE NOTE 3 REBUILD TOP OF DRAINAGE STRUCTURE, INSTALL NEW FRAME AND RESET GRATE, ITEM 604.070401, A.O.B.E.

NOTES:

1. OFFSETS FOR INLETS ALONG CURB ARE GIVEN TO FACE OF CURB. OFFSETS FOR FIELD INLETS AND MANHOLES GIVEN TO CENTER OF STRUCTURE. OFFSETS FOR END SECTIONS ARE GIVEN TO THE END OF THE END SECTION.
2. END SECTIONS SHALL INCLUDE METAL TOE PLATE EXTENSIONS AS SHOWN ON NYSDOT STD. SHT. 603-02.
3. CONTRACTOR SHALL CLEAN THE IDENTIFIED DRAINAGE STRUCTURES. WORK TO REPAIR DRAINAGE STRUCTURES TO BE A.O.B.E..

DRAINAGE ITEM SUMMARY TABLE

ITEM NUMBER	DESCRIPTION
603.051018	CORRUGATED STEEL PIPE (2-2/3 IN. X 1/2 IN.) CORRUGATIONS 12 INCH, 18 GAUGE
603.171016	GALVANIZED STEEL END SECTIONS-PIPE (2-2/3" X 1/2" CORRUGATIONS) 12 INCH DIAMETER, 16 GAUGE
604.070401	ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES
604.301911	RECTANGULAR DRAINAGE STRUCTURE TYPE S FOR #11 WELDED FRAME
605.16030008	NON-PERFORATED PVC PIPE, 8" DIAMETER PIPE
605.98101218	SMOOTH INTERIOR PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN PIPE 12 INCH DIA.
621.04	CLEANING DRAINAGE STRUCTURES
655.1111	WELDED FRAME AND RETICULINE GRATE 11

ITEM 663.33 - ADJUST EXISTING VALVE BOX ELEVATION

STATION	OFFSET	SIDE	APPROX. EXISTING GROUND ELEVATION	APPROX. PROPOSED GROUND ELEVATION	QUANTITY (SEE NOTES)	REMARKS
EL 11+53.36	3.80	RT	524.60	524.64	1	WATER VALVE
SS 33+16.62	0.60	LT	595.37	595.44	1	WATER VALVE
SS 33+24.44	0.40	LT	595.58	595.57	1	WATER VALVE
				TOTAL =	3	

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
0911001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
NONE

ISSUE DATE
11/2018

STATE OF NEW YORK * JOHN B. SCHMID * 072851 * LICENSED PROFESSIONAL ENGINEER

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
MISCELLANEOUS TABLES

DRAWING NO.
MT-2

SHEET 35 OF 110

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TABLE OF ROW ACQUIRED BY THE TOWN OF BRIGHTON, PIN 4754.08

MAP NUMBER	DRAWING NUMBER	REPUTED OWNER	LIBER	PAGE	TYPE OF TAKE	TAX ACCOUNT NUMBER	AREA			REMARKS
							ACQUIRED SQUARE FEET	ACQUIRED ACRES	ORIGINAL ACRES	
HCT-1	PL-1	WESTFALL OFFICE GROUP LLC	10548	387	PE	149.06-1-2.411	11927.4	0.27	7.53	FOR TRAIL
HCT-2	PL-1	WESTFALL OFFICE GROUP LLC	10642	373	PE	149.06-1-2.522	12092.2	0.28	2.46	FOR TRAIL
HCT-3	PL-1	VA VENTURE ROCHESTER, LLC	8662	562	PE	136.18-1-4	3104.7	0.07	5.26	FOR TRAIL
HCT-4	PL-2, PL-3, PL-4	PEOPLE OF THE STATE OF NEW YORK (UNDER THE JURISDICTION OF THE OFFICE FOR PEOPLE WITH DEVELOPMENTAL DISABILITIES)	10862	309	FEE	136.18-1-1	111532.9	2.56	62.19	FOR TRAIL
HCT-7	PL-7	293 A ALDEN ROAD LLC	10890	347	PE	136.14-1-1.2	1077.3	0.02	27.56	FOR TRAIL
HCT-14	PL-7	293 A ALDEN ROAD LLC	10890	347	TE	136.14-1-1.2	2833.1	0.06	27.56	CONSTRUCTION ACCESS
HCT-15	PL-2	PEOPLE OF THE STATE OF NEW YORK (UNDER THE JURISDICTION OF THE OFFICE FOR PEOPLE WITH DEVELOPMENTAL DISABILITIES)	10862	309	TE	136.18-1-1	52526.3	1.21	62.19	CONSTRUCTION ACCESS
HCT-16	PL-2	PEOPLE OF THE STATE OF NEW YORK (UNDER THE JURISDICTION OF THE STATE UNIVERSITY OF NEW YORK)	10862	309	FEE	136.18-1-1	12685.0	0.29	4.29	FOR TRAIL

TABLE OF ROW ACQUIRED BY THE CITY OF ROCHESTER, PIN 4754.08

MAP NUMBER	DRAWING NUMBER	REPUTED OWNER	LIBER	PAGE	TYPE OF TAKE	TAX ACCOUNT NUMBER	AREA			REMARKS
							ACQUIRED SQUARE FEET	ACQUIRED ACRES	ORIGINAL ACRES	
HCT-8	PL-8, PL-9	PEOPLE OF THE STATE OF NEW YORK	10862	302	FEE	136.55-1-2.4	7497.4	0.17	57.76	FOR TRAIL
HCT-10	PL-7	CITY OF ROCHESTER	3292	366	PE	136.56-1-47.1	539.8	0.01	0.09	FOR TRAIL
HCT-11	PL-9, PL-11	AL SIGL CENTER FOR REHABILITATION AGENCIES, INC.	9953	360	PE	136.47-1-20	1185.5	0.03	10.12	FOR TRAIL
HCT-12	PL-7, PL-8	293 A ALDEN ROAD LLC	10890	347	PE	136.56-1-1	10935.0	0.25	27.56	FOR TRAIL
HCT-13	PL-9	PEOPLE OF THE STATE OF NEW YORK	10862	302	FEE	13.55-1-1.5	3410.3	0.08	57.76	FOR TRAIL

TOPSOIL AND ESTABLISH TURF

STATION	TO	STATION	SIDE	AREA (SF)	TOPSOIL - REUSE ON-SITE MATERIAL, ITEM NO. 610.1401 (CY)	TOPSOIL - LAWNS, ITEM NO. 610.1403 (CY)	TURF ESTABLISHMENT - LAWNS, ITEM NO. 610.1602 (SY)	NOTES
SG 1+00.00		SG 2+42.14	RT	300		4	34	
SG 2+14.22		SG 3+86.63	LT	370		5	42	
SG 4+49.59		SG 12+54.30	LT & RT	4915		61	547	
SJ 2+00.00		SJ 22+49.00	LT & RT	14225	176		1581	
SJ 22+49.00		SJ 26+86.00	LT & RT	4385		55	488	AREA OF CONTAMINATED SOIL
SJ 26+86.00		SJ 28+13.00	LT & RT	1530	19		170	
SJ 30+46.08		SJ 34+47.62	LT & RT	2655	33		295	
SJ 35+10.70		SJ 53+43.93	LT & RT	8125	101		903	
EL 0+85.60		EL 17+63.62	LT & RT	10215		127	1135	
HP 1+00.00		HP 11+05.20	LT & RT	11390	141		1266	
HP 14+38.00		HP 17+25.60	LT & RT	2658		33	296	
HD 1+00.00		HD 3+32.04	LT & RT	928		12	104	232' L x 2' W x 2 SIDES
SS 31+69.90		SS 40+84.74	LT & RT	4630		58	515	
ADD ALTERNATE #2 SOUTH AVE., ROBINSON DR., MOUNT HOPE AVE., MC LEAN ST., SEE SIDEWALK - SPOT REPLACEMENT TABLE				3808		48	424	FOR 952 LF OF SIDEWALK SPOT REPLACEMENTS 952'L x 2'W x 2 SIDES = 3808 SF
BASE BID TOTAL					470	355	7376	
ADD ALTERNATE #3 TOTAL						48	424	
GRAND TOTAL					470	403	7800	

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REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
091001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
NONE

ISSUE DATE
11/2018

STATE OF NEW YORK * JOSEPH B. SCHMID * 072857 * LICENSED PROFESSIONAL ENGINEER

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
MISCELLANEOUS TABLES

DRAWING NO.
MT-3

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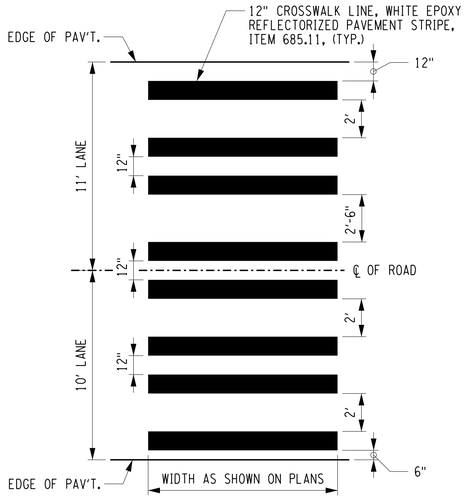
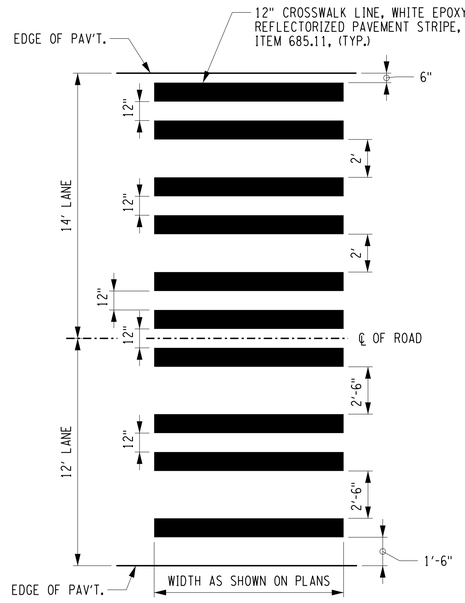
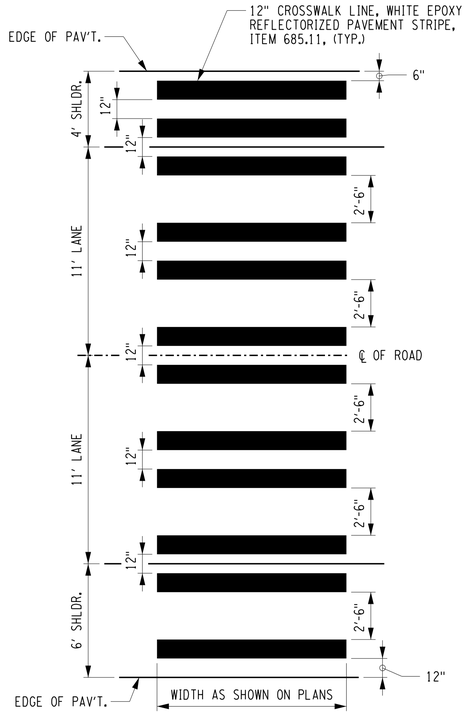
11/16/2018 10:56:14 AM
TimD



10' & 11' LANES



12' & 14' LANES

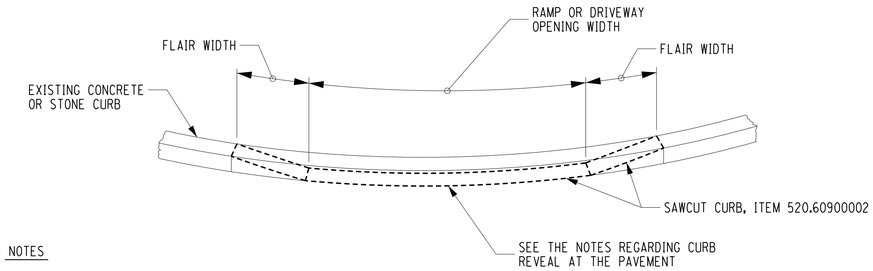


11' LANES WITH 4' & 6' SHOULDERS

NOTE

LINES SHALL BE PLACED TO AVOID WHEEL PATHS.

CONTINENTAL CROSSWALK MARKING DETAILS
TWO WAY ROADWAYS

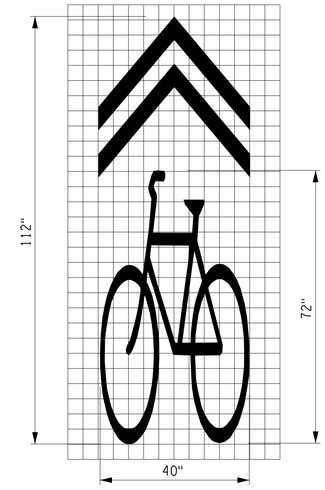


NOTES

1. COSTS FOR ANY NECESSARY EXCAVATION SHALL BE INCLUDED IN THE COST BID FOR THE SAWCUTTING.
2. THE CURB REVEAL FOR SIDEWALK RAMPS SHALL BE A MAXIMUM OF 1/4", FOR DRIVEWAYS THE CURB REVEAL SHALL BE AS INDICATED IN THE PLANS OR DRIVEWAY TABLE.

SAWCUTTING CURB FOR DRIVEWAY OR SIDEWALK RAMP

NOT TO SCALE

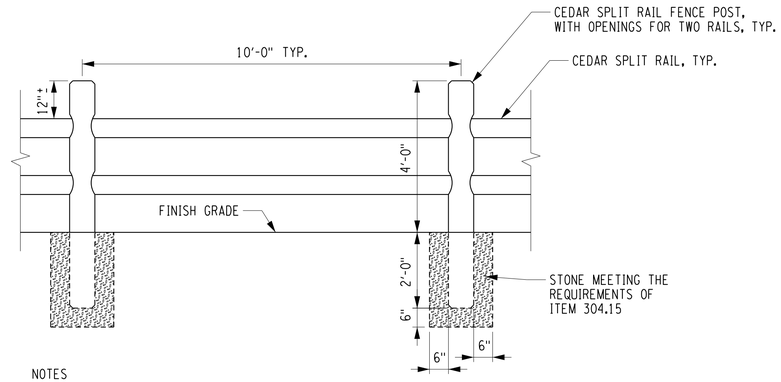


NOTE:

1. ENTIRE SYMBOL SHOWN TO BE PAID FOR AS ONE SYMBOL (BIKE AND ARROWS).
2. ELMWOOD AVENUE - SYMBOL TO BE PLACED AT CENTER OF SHARED BIKE / MOTOR VEHICLE LANE.

SHARED LANE MARKING SYMBOL
ITEM 685.14

NOT TO SCALE



NOTES

1. THE COST OF THE STONE BACKFILL TO BE INCLUDED IN THE PRICE BID FOR THE SPLIT RAIL FENCE.

SPLIT RAIL FENCE, ITEM 607.65020010

NOT TO SCALE

REV	DESCRIPTION	DATE	BY
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PROJECT MANAGER R. SCHMID
DRAWN BY C. PERKINS
SCALE AS SHOWN
ISSUE DATE 11/2018

STATE OF NEW YORK * EVAN B. SCHMID * 078871 * LICENSED PROFESSIONAL ENGINEER

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
MISCELLANEOUS DETAILS

DRAWING NO.
MD-1

SHEET 37 OF 110

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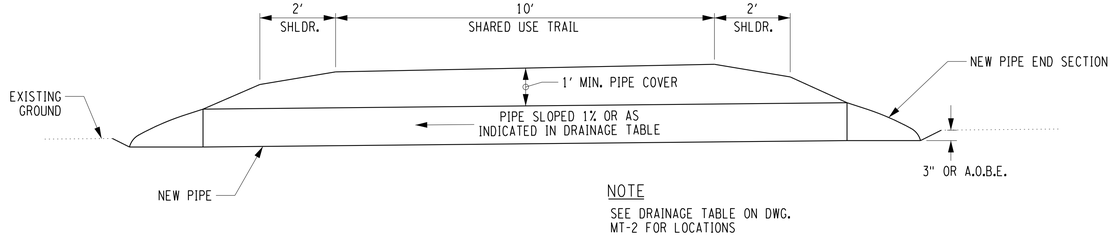


NOTE

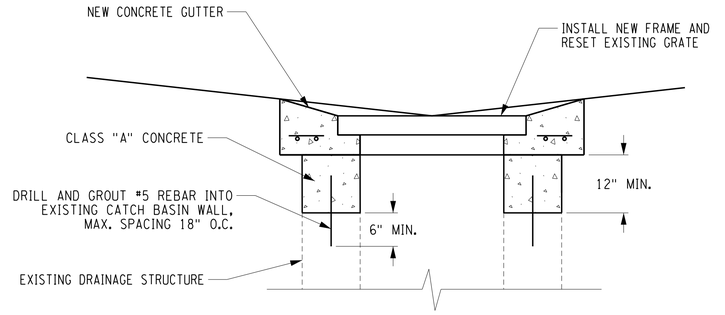
SEE DRAINAGE TABLE ON DWG.
MT-2 FOR LOCATIONS

EQUALIZATION PIPE - WETLANDS

N.T.S.

DRAINAGE PIPE INSTALLATION DETAIL

(PIPE INSTALLED ABOVE EXISTING GROUND)
N.T.S.

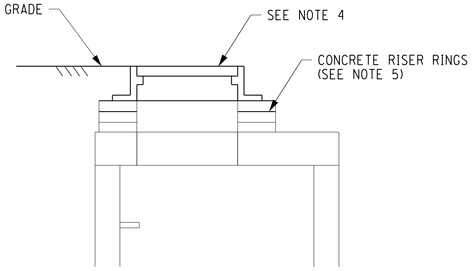


ALTER DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLE (RESET EXISTING FRAME AND GRATE IN NEW GUTTER) ITEM 604.070401

NOT TO SCALE

NOTES

1. REMOVE TOP OF STRUCTURE WALLS, A.O.B.E..
2. THE FRAME IS TO BE CAST INTO THE CONCRETE GUTTER SLAB. DO NOT CAST THE FRAME INTO THE DRAINAGE STRUCTURE WALLS OR TOP SLAB.
2. COAT ALL EXPOSED CONCRETE USED FOR DRAINAGE STRUCTURE REPAIRS WITH TWO COATS OF DAMP-PROOFING.



ALTER MANHOLE - ADJUST FRAME AND GRATE/COVER

STRUCTURE ALTERATION NOTES:

1. THE COST OF CONCRETE ADJUSTMENT RINGS, CONCRETE COLLARS, PRECAST CONCRETE PAVERS ARE INCLUDED IN THE PRICE BID FOR THIS ITEM.
2. COAT ALL EXPOSED SURFACES OF NEW ADJUSTMENT MATERIAL WITH TWO COATS OF DAMP-PROOFING.
3. REMOVE EXISTING FRAME, COVER. PROVIDE NEW ADJUSTMENT RINGS, AND RESET EXISTING FRAME AND COVER TO THE REQUIRED ELEVATION.
4. RESET OR REPLACE THE EXISTING FRAME AND COVER OR GRATE AS SHOWN IN THE TABLES.
5. FOR ALL DRAINAGE STRUCTURE ADJUSTMENTS, A MAXIMUM OF 6 INCHES OF PRECAST CONCRETE PAVERS AND MORTAR FOR CONCRETE, OR A MAXIMUM OF 2 INCHES OF MORTAR FOR CONCRETE ALONE, SHALL BE USED FOR TOP SLAB AND/OR FRAME AND GRATE ADJUSTMENT. FOR ADJUSTMENTS OVER 6 INCHES AND NOT TO EXCEED 12 INCHES, CAST IN PLACE CONCRETE OR A PRECAST CONCRETE ADJUSTMENT ELEMENT SHALL BE USED. A MAXIMUM OF 2 INCHES OF MORTAR FOR CONCRETE SHALL BE ALLOWED ON BOTH THE TOP AND BOTTOM OF THE PRECAST DEVICES. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE AND SHAPE OF ALL REQUIRED ADJUSTMENT RINGS, AND OTHER NECESSARY ADJUSTMENT DEVICES.

DETAIL - ALTER MANHOLE

N.T.S.

ITEM 604.070402 ALTERING DRAINAGE STRUCTURES,
LEACHING BASINS AND MANHOLES - ADJUST FRAME AND GRATE/COVER

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FA PROJECT NO.
091001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
AS SHOWN

ISSUE DATE
11/2018

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
MISCELLANEOUS DETAILS

DRAWING NO.

MD-2

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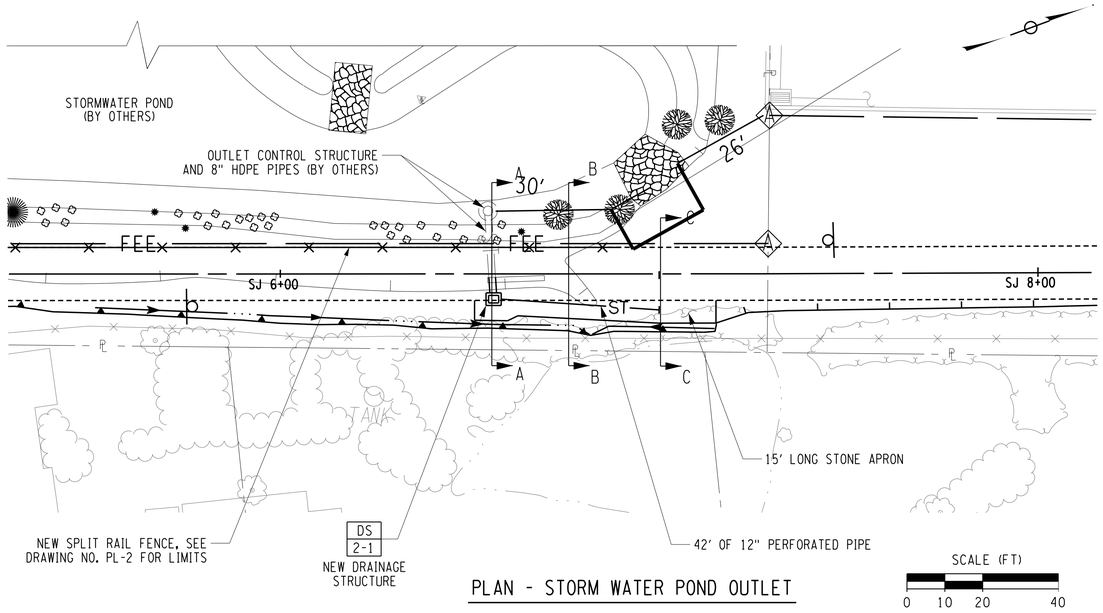
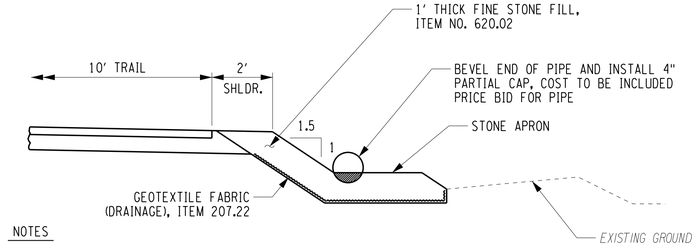


PLAN - STORM WATER POND OUTLET

SCALE (FT)
0 10 20 40

NOTES:

1. CONTRACTOR SHALL MINIMIZE DISTURBANCE / REMOVAL OF BRUSH ALONG PROPERTY LINE.

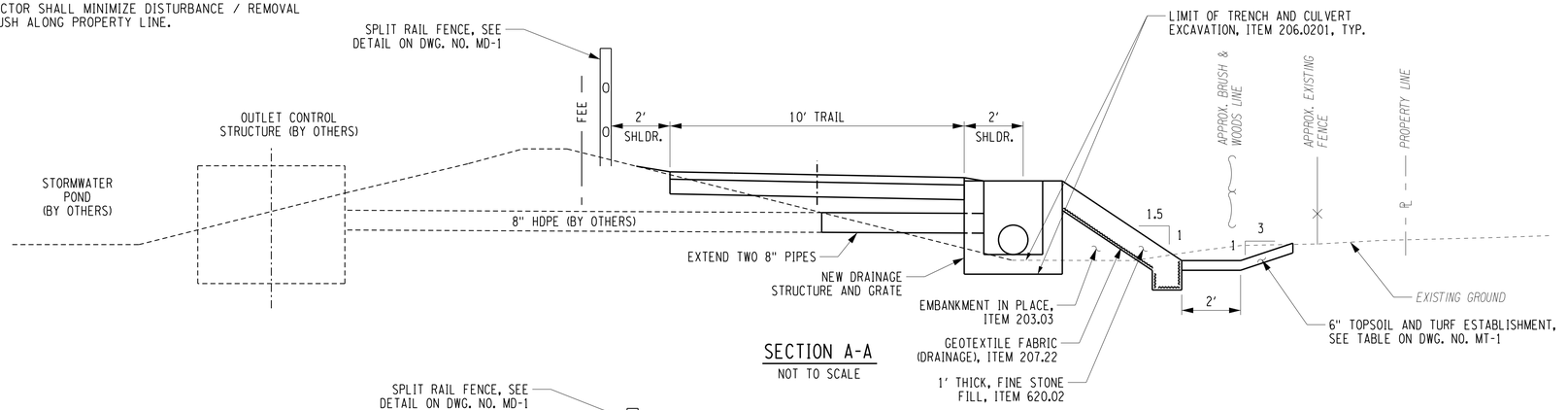


NOTES

1. END PIPE AT STA. SJ 7+00, 9.5' RT., APPROX. 6" OF COVER ON PIPE (LIGHT STONE FILL)

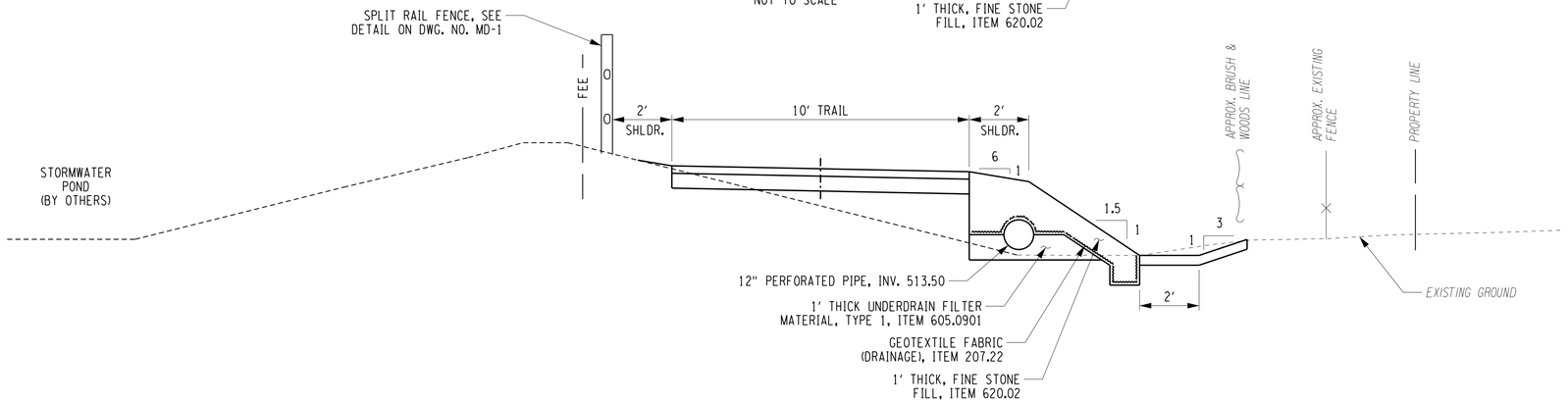
SECTION C-C

NOT TO SCALE



SECTION A-A

NOT TO SCALE



SECTION B-B

NOT TO SCALE

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FA PROJECT NO.
091001
PROJECT MANAGER
R. SCHMID
DRAWN BY
C. PERKINS
SCALE
AS SHOWN
ISSUE DATE
11/2018

STATE OF NEW YORK * KEVIN B. SCHMID * 078871 * LICENSED PROFESSIONAL ENGINEER

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
MISCELLANEOUS DETAILS

DRAWING NO.
MD-3

SHEET 39 OF 110

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11/16/2018
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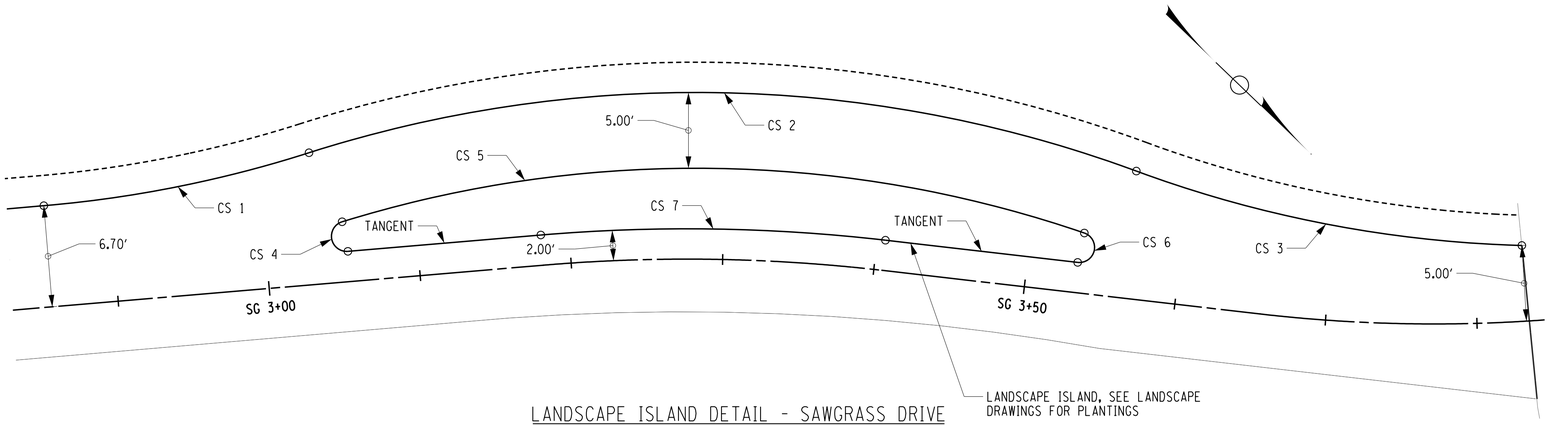
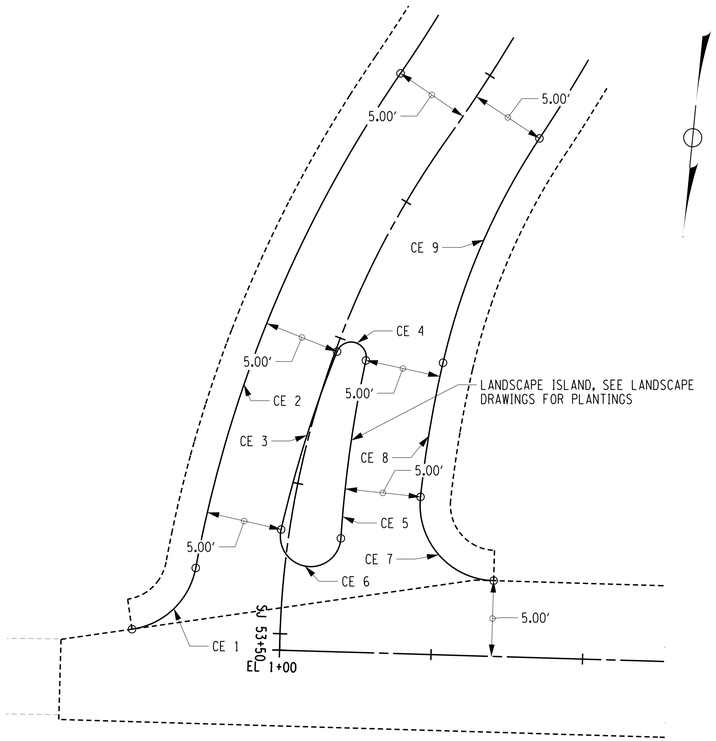
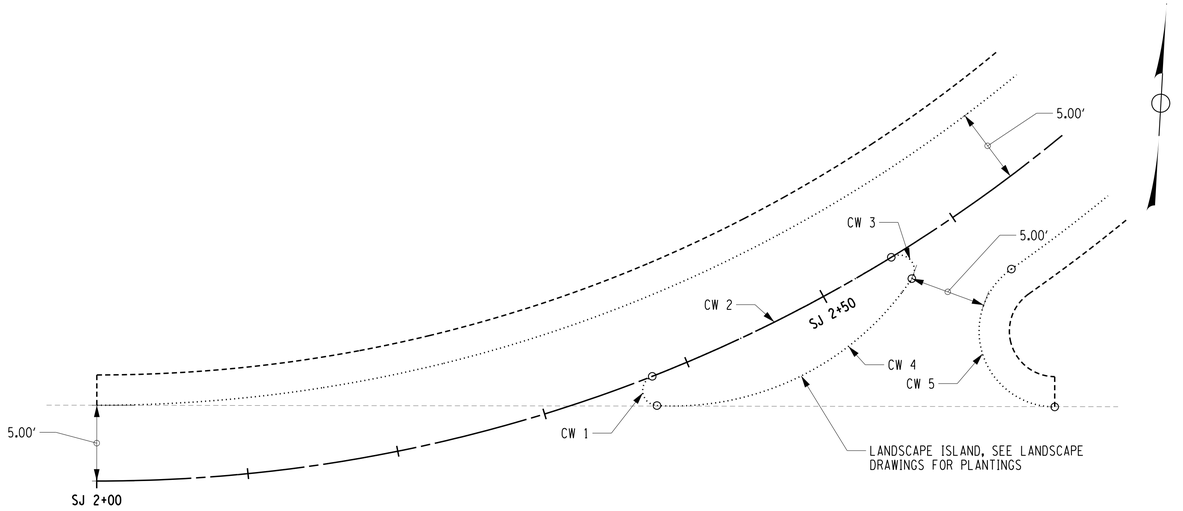


LANDSCAPE ISLAND DETAIL - SAWGRASS DRIVE



LANDSCAPE ISLAND DETAIL - ELMWOOD AVENUE



LANDSCAPE ISLAND DETAIL - WESTFALL ROAD

LANDSCAPE ISLAND LAYOUT TABLE					
CURVE NUMBER	FROM STATION	OFFSET (FT)	TO STATION	OFFSET (FT)	RADIUS
CE 1	SJ 53+50.03	9.77' RT	SJ 53+46.22	5.84' RT	5.00'
CE 2	SJ 53+46.22	5.84' RT	SJ 53+13.22	5.00' RT	85.00'
CE 3	SJ 53+43.17	0.55' RT	SJ 53+30.91	0.11' LT	80.00'
CE 4	SJ 53+30.91	0.11' LT	SJ 53+30.79	2.10' LT	1.00'
CE 5	SJ 53+30.79	2.10' LT	SJ 53+43.16	3.43' LT	80.00'
CE 6	SJ 53+43.16	3.43' LT	SJ 53+43.17	0.55' RT	2.00'
CE 7	SJ 53+44.82	13.79' LT	SJ 53+39.14	8.11' LT	5.00'
CE 8	SJ 53+39.14	8.11' LT	SJ 53+28.96	6.90' LT	75.00'
CE 9	SJ 53+28.96	6.90' LT	SJ 53+11.64	5.00' LT	45.00'
CS 1	SG 2+85.64	6.70' LT	SG 3+03.37	8.70' LT	80.00'
CS 2	SG 3+03.37	8.70' LT	SG 3+56.47	8.43' LT	84.00'
CS 3	SG 3+56.47	8.43' LT	SG 3+83.27	5.00' LT	80.00'
CS 4	SG 3+18.16	2.00' LT	SG 3+05.17	3.98' LT	1.00'
CS 5	SG 3+05.17	3.98' LT	SG 3+53.53	3.98' LT	79.00'
CS 6	SG 3+53.53	3.98' LT	SG 3+53.31	2.00' LT	1.00'
CS 7	SG 3+40.54	2.00' LT	SG 3+18.16	2.00' LT	114.29'
CW 1	SJ 2+37.12	1.91' RT	SJ 2+37.53	0.00' LT	1.00'
CW 2	SJ 2+37.53	0.00' LT	SJ 2+55.17	0.00' RT	100.00'
CW 3	SJ 2+55.17	0.00' RT	SJ 2+55.58	1.91' RT	1.00'
CW 4	SJ 2+55.58	1.91' RT	SJ 2+37.12	1.91' RT	18.95'
CW 5	SJ 2+58.71	14.13' RT	SJ 2+61.22	5.00' RT	5.00'

5 0 5 10 15 20'
SCALE

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
0911001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
AS SHOWN

ISSUE DATE
11/2018

STATE OF NEW YORK * JOSEPH B. SCHMID * 078187 * LICENSED PROFESSIONAL ENGINEER

FISHER ASSOCIATES
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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
MISCELLANEOUS DETAILS

DRAWING NO.
MD-4

SHEET 40 OF 110

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SILT FENCE AND FIBER ROLL

ITEM 209.13 SILT FENCE - TEMPORARY
ITEM 616.16000024 FIBER ROLLS

FROM STATION	TO STATION	SIDE	ITEM 209.13 (FT)	ITEM 616.16000024 (FT)	REMARKS
SG 2+14	SG 3+30	LT	116		
SG 4+70	SG 5+80	RT		110	
SG 6+40	SG 8+40	RT		200	
SG 9+30	SG 9+85	RT		55	
SG 10+60	SG 12+50	RT		190	
SJ 2+00	SJ 3+27	LT	127		
SJ 2+50	SJ 8+25	RT	575		
SJ 8+25	SJ 11+00	LT	275		
SJ 10+25	SJ 18+00	RT	775		
SJ 17+50	SJ 25+50	LT	800		
SJ 22+00	SJ 22+65	RT	65		
SJ 22+75	SJ 28+10	RT	555		
SJ 26+60	SJ 27+60	LT	100		
SJ 30+45	SJ 34+50	LT & RT	850		
SJ 35+10	SJ 53+45	LT & RT	3670		
EL 1+10	EL 8+50	LT	740		
EL 9+00	EL 17+10	LT	810		
EL 16+60	EL 17+32	RT		72	
HP 1+00	HP 11+05	RT	1005		
HP 3+75	HP 11+05	LT	730		
HP 14+50	HP 17+05	RT	255		
HP 14+90	HP 16+90	LT	200		
SS 32+00	SS 35+50	LT		350	
SS 32+80	SS 35+40	RT	260		
SS 36+20	SS 40+80	LT		460	
SS 37+25	SS 40+00	RT	275		
		TOTALS	12183	1437	

GENERAL EROSION CONTROL NOTES

1. GENERAL

CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF SPDES GENERAL PERMIT # 08-001 AND THE PROJECT'S STORMWATER POLLUTION PREVENTION PLAN (SWPPP).

THE SWPPP SHALL BE AMENDED AND RE-CERTIFIED BY A LICENSED OR CERTIFIED PROFESSIONAL IF THERE ARE SIGNIFICANT CHANGES IN THE DESIGN OR CONSTRUCTION ACTIVITIES THAT MAY HAVE A SIGNIFICANT EFFECT ON THE POTENTIAL FOR THE DISCHARGE OF SEDIMENT OR POLLUTANTS INTO THE WATERS OF THE UNITED STATES, AS SPECIFIED IN THE SWPPP. COSTS ASSOCIATED WITH AMENDING OR THE RE-CERTIFICATION OF THE SWPPP WILL BE INCLUDED IN THE PRICE BID FOR THE EROSION CONTROL ITEMS.

WHERE THERE ARE INCONSISTENCIES BETWEEN THE REQUIREMENTS OF THE NYSDOT SPECIFICATIONS AND THE SWPPP, THE MORE STRINGENT REQUIREMENTS SHALL BE FOLLOWED.

2. PERIMETER SILTATION FENCING, ITEM 209.13

SILT FENCING MUST BE INSTALLED PARALLEL TO EXISTING CONTOURS OR CONSTRUCTED IN LEVEL ALIGNMENTS. ENDS OF FENCING MUST BE EXTENDED 10 FT, TRAVELING UPSLOPE AT 45 DEGREES TO THE ALIGNMENT OF THE MAIN FENCING SECTION.

3. FIBER ROLL, ITEM 616.16000024

FIBER ROLLS SHALL BE STRAW WATTLES, 8" MINIMUM DIAMETER.

4. STABILIZATION PRACTICES

NO MORE THAN 5 ACRES OF DISTURBED SOIL IS PERMITTED AT ANY ONE TIME WITHOUT PRIOR WRITTEN PERMISSION FROM THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC).

ALL DISTURBED AREAS MUST BE STABILIZED WITHIN 7 DAYS BY TEMPORARY SEEDING OR OTHER EROSION PREVENTION MEASURES.

DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE RE-DISTURBED WITHIN ONE YEAR MAY BE SEEDED AND MULCHED WITH QUICK GROWING TEMPORARY SEEDING MIXTURE WITH MULCH. DISTURBED AREAS THAT ARE EITHER AT FINISHED GRADE OR WILL NOT BE RE-DISTURBED WITHIN ONE YEAR MUST BE SEEDED AND MULCHED WITH A PERMANENT SEEDING MIXTURE AND MULCH.

TEMPORARY SEEDING AND MULCH, ITEM 209.1003

SEED: SEEDING MIXTURE SHALL BE APPLIED AS SPECIFIED IN THE NYSDOT STANDARD SPECIFICATIONS, SECTION 209.

4. STABILIZATION PRACTICES, CONTINUED

PERMANENT SEEDING STABILIZATION, ITEM 610.1602

SEED MIXTURE, FERTILIZER, AND MULCHING FOR PERMANENT SEEDING STABILIZATION SHALL BE THE SAME AS SPECIFIED FOR FINAL TURF ESTABLISHMENT ON THE PROJECT AND AS SPECIFIED IN SECTION 610 OF THE NYSDOT STANDARD SPECIFICATIONS.

5. MAINTENANCE / INSPECTION PROCEDURES

TEMPORARY SOIL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED AS SPECIFIED IN THE NYSDOT STANDARD SPECIFICATIONS AND THE SWPPP.

6. CONSTRUCTION ENTRANCES, ITEM 209.22

CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT LOCATIONS SHOWN IN THE PLANS.

SILT FENCE WILL BE INSTALLED AT THE WASH AREAS. ACCESS POINTS MAY CROSS EXISTING CURB, ANY COSTS NECESSARY FOR CURB MODIFICATIONS, TEMPORARY RAMPING AND RESTORATION TO ORIGINAL CONDITIONS TO BE INCLUDED IN PRICE BID FOR CONSTRUCTION ENTRANCES.

7. TEMPORARY GROUND PROTECTION MAT, ITEM 209.23000009

THE CONTRACTOR SHALL INSPECT THE MATS FOR FOREIGN MANNER PRIOR TO PLACEMENT. THE CONTRACTOR SHALL REMOVE / CLEAN FOREIGN MATTER FROM MATS PRIOR TO USE. MATS WILL BE CLEANED BY THE CONTRACTOR PRIOR TO REMOVAL FROM THE SITE AND SHALL BE REMOVED PROMPTLY ON COMPLETION OF THE WORK IN EACH AREA.

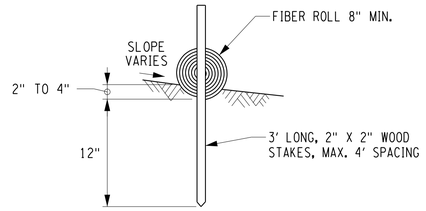
8. TOPSOIL STOCKPILES

THE LOCATION OF TOPSOIL STOCKPILES SHALL BE DETERMINED BY THE CONTRACTOR. TOPSOIL STOCKPILES SHOULD BE STABILIZED BY SEED AND MULCH AS SOON AS POSSIBLE. IN ADDITION, SILT FENCE SHOULD BE INSTALLED AROUND THE PERIMETER OF THE STOCKPILE. THE COST FOR STABILIZATION SHALL BE INCLUDED IN THE PRICE BID FOR TOPSOIL ITEMS.

VEGETATION PROTECTION BARRIER

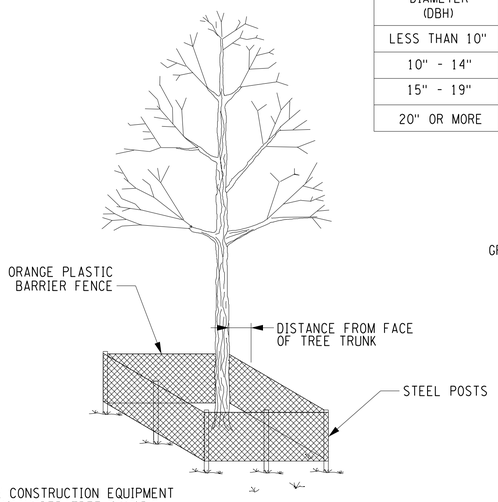
ITEM 607.41010010 TEMPORARY PLASTIC BARRIER FENCE

FROM STATION	TO STATION	SIDE	ITEM 607.41010010 (FT)	REMARKS
SJ 19+33	SJ 19+92	RT	59	
SJ 22+42	SJ 33+67	LT	1140	
SJ 22+42	SJ 33+53	RT	1170	
EL 5+37	–	RT	24	
EL 5+77	–	RT	24	
EL 6+72	–	RT	24	
EL 7+77	–	RT	24	
EL 13+98	–	RT	24	
EL 15+18	–	RT	24	
EL 15+58	–	RT	24	
EL 15+98	–	RT	24	
EL 16+38	–	RT	24	
EL 16+78	–	RT	24	
EL 17+18	–	RT	24	
HP 10+96	HP 11+20	RT	37	
HP 11+92	–	RT	24	
HP 12+06	–	LT	24	
HP 12+33	–	RT	24	
HP 12+57	–	LT	24	
HP 12+81	–	RT	24	
HP 13+05	–	RT	24	
HP 12+03	HP 13+44	LT	57	
HP 14+66	–	LT	120	
HD 1+89	HD 2+86	LT	104	
HD 2+60	HD 3+25	RT	106	
HD 3+11	HD 3+31	LT	64	
SS 33+34	–	LT	50	
SS 34+50	–	LT	50	
		TOTALS	3365	



SECTION - FIBER ROLL, ITEM 616.16000024
NOT TO SCALE

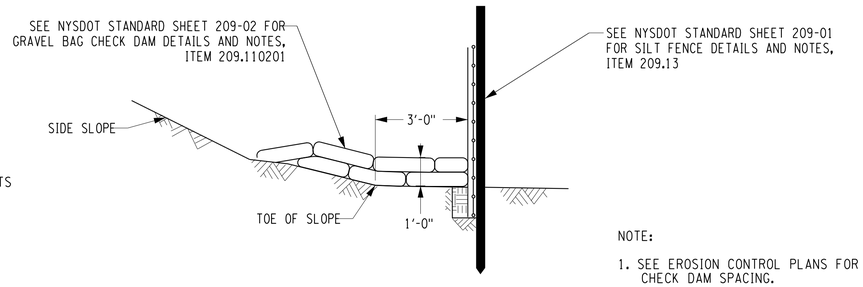
TREE DIAMETER (DBH)	DISTANCE OF FENCING FROM FACE OF TREE TRUNK
LESS THAN 10"	6'
10" - 14"	10'
15" - 19"	12'
20" OR MORE	15'



NOTE:

1. DO NOT LEAVE CONSTRUCTION EQUIPMENT RUNNING (IDLING) UNDER TREE CANOPY
2. MAXIMUM POST SPACING IS 8 FT.

TEMPORARY PLASTIC BARRIER FENCE, ITEM 607.41010010
NOT TO SCALE



NOTE:

1. SEE EROSION CONTROL PLANS FOR CHECK DAM SPACING.

SECTION - SILT FENCE WITH GRAVEL BAG CHECK DAMS
ITEM 209.13 & ITEM 209.110201
NOT TO SCALE

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FA PROJECT NO. 0911001
PROJECT MANAGER R. SCHMID
DRAWN BY C. PERKINS
SCALE AS SHOWN
ISSUE DATE 11/2018

STATE OF NEW YORK * REGISTERED * ENGINEER * RYAN B. SCHMID 078871 LICENSED PROFESSIONAL

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
EROSION CONTROL NOTES, DETAILS & TABLES

DRAWING NO.
ECN-1

SHEET 41 OF 110

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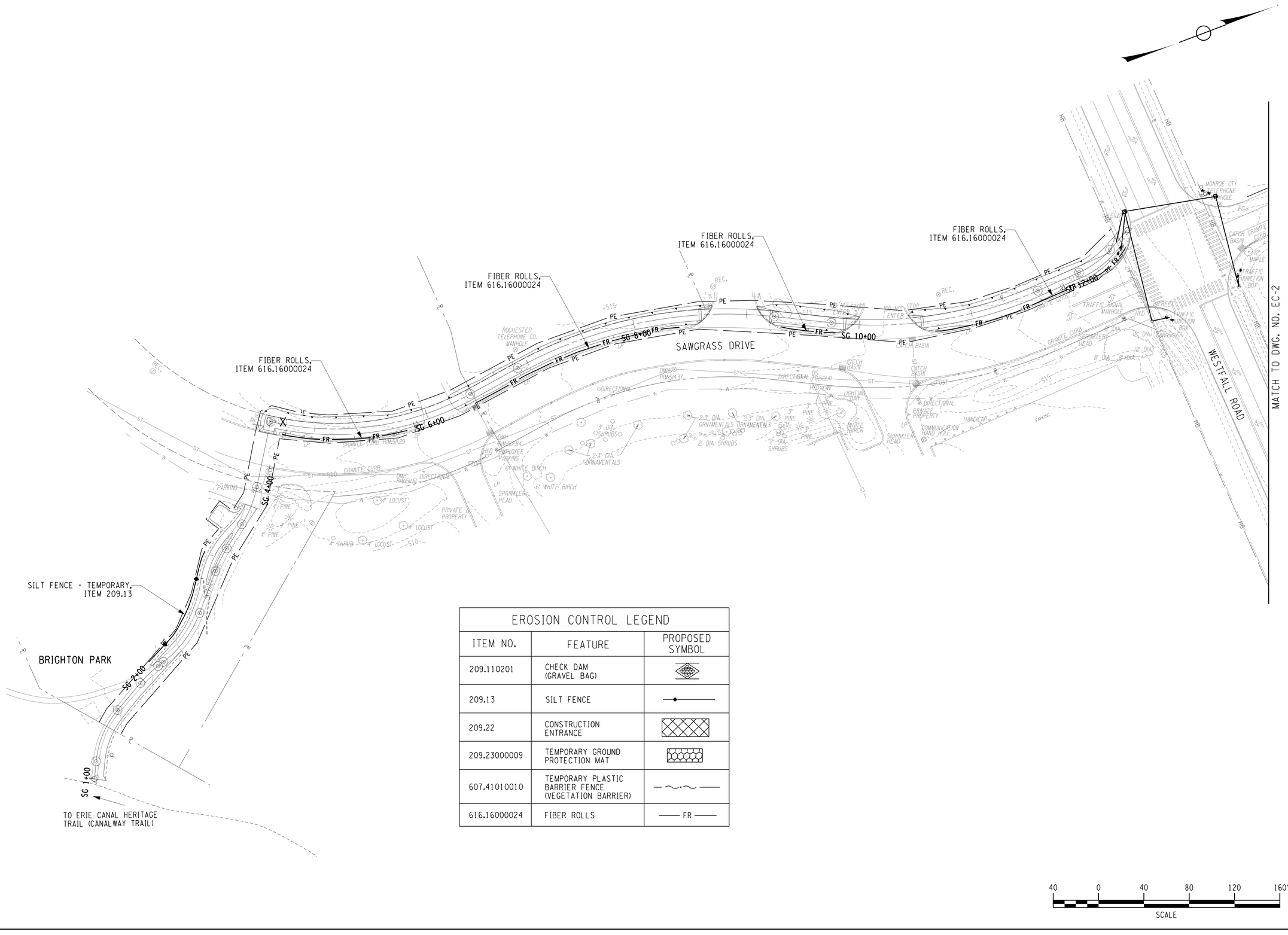

EROSION CONTROL LEGEND		
ITEM NO.	FEATURE	PROPOSED SYMBOL
209.110201	CHECK DAM (GRAVEL BAG)	
209.13	SILT FENCE	
209.22	CONSTRUCTION ENTRANCE	
209.23000009	TEMPORARY GROUND PROTECTION MAT	
607.41010010	TEMPORARY PLASTIC BARRIER FENCE (VEGETATION BARRIER)	
616.16000024	FIBER ROLLS	FR

40 0 40 80 120 160'
SCALE

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PROJECT MANAGER R. SCHMID
DRAWN BY C. PERKINS
SCALE AS SHOWN
ISSUE DATE 11/2018

STATE OF NEW YORK ERWIN B. SCHMID 072887 LICENSED PROFESSIONAL ENGINEER

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
EROSION CONTROL PLAN

DRAWING NO.
EC-1

SHEET 42 OF 110

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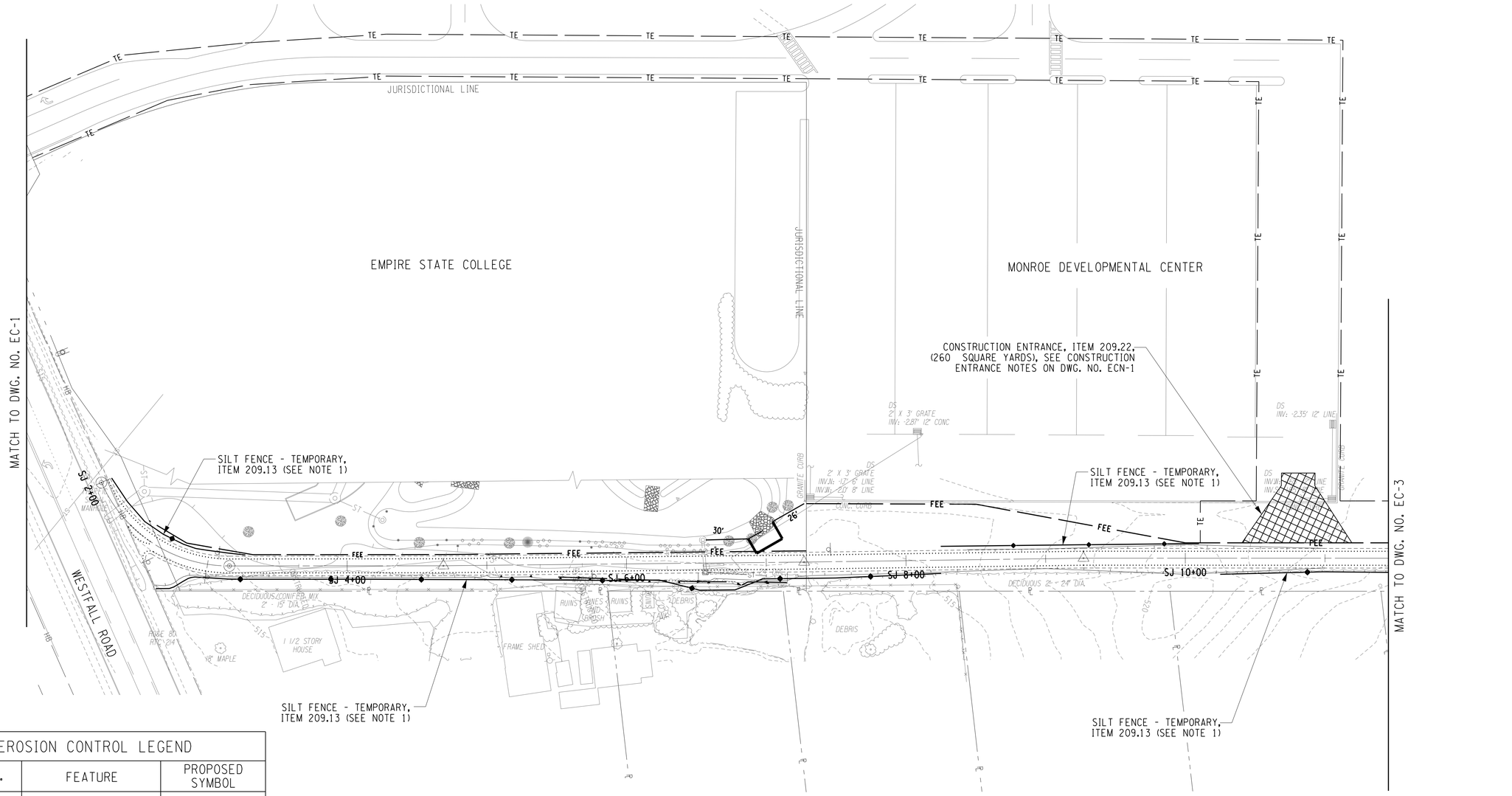

EROSION CONTROL LEGEND

ITEM NO.	FEATURE	PROPOSED SYMBOL
209.110201	CHECK DAM (GRAVEL BAG)	
209.13	SILT FENCE	
209.22	CONSTRUCTION ENTRANCE	
209.23000009	TEMPORARY GROUND PROTECTION MAT	
607.41010010	TEMPORARY PLASTIC BARRIER FENCE (VEGETATION BARRIER)	
616.16000024	FIBER ROLLS	FR

NOTES:

1. CONTRACTOR SHALL MINIMIZE DISTURBANCE / REMOVAL OF BRUSH ALONG PROPERTY LINE.

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PROJECT MANAGER R. SCHMID
DRAWN BY C. PERKINS
SCALE AS SHOWN
ISSUE DATE 11/2018

STATE OF NEW YORK ** ERIN B. SCHMID ** 078187 ** LICENSED PROFESSIONAL ENGINEER

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TOWN OF BRIGHTON & CITY OF ROCHESTER
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MONROE COUNTY, NEW YORK

TITLE OF DRAWING
EROSION CONTROL PLAN

DRAWING NO.
EC-2

SHEET 43 OF 110

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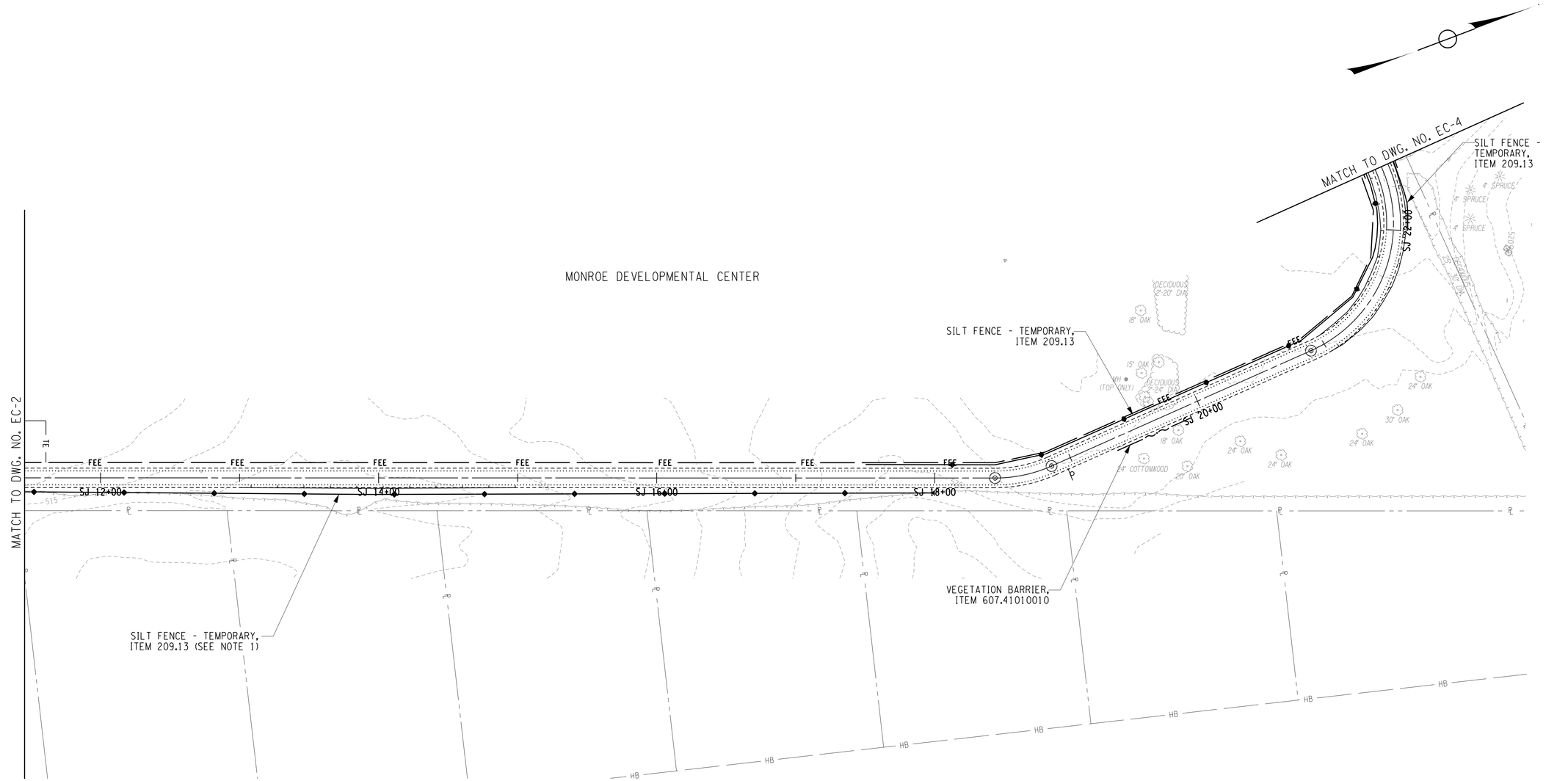

NOTES:

1. CONTRACTOR SHALL MINIMIZE DISTURBANCE / REMOVAL OF BRUSH ALONG PROPERTY LINE.

EROSION CONTROL LEGEND

ITEM NO.	FEATURE	PROPOSED SYMBOL
209.110201	CHECK DAM (GRAVEL BAG)	
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607.41010010	TEMPORARY PLASTIC BARRIER FENCE (VEGETATION BARRIER)	
616.16000024	FIBER ROLLS	FR

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SCALE

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FA PROJECT NO.
0910001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
AS SHOWN

ISSUE DATE
11/2018

STATE OF NEW YORK ★ JOSEPH B. SCHMID ★ LICENSED PROFESSIONAL ENGINEER 071861

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
EROSION CONTROL PLAN

DRAWING NO.
EC-3

SHEET 44 OF 110

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11/16/2018 10:56:37 AM
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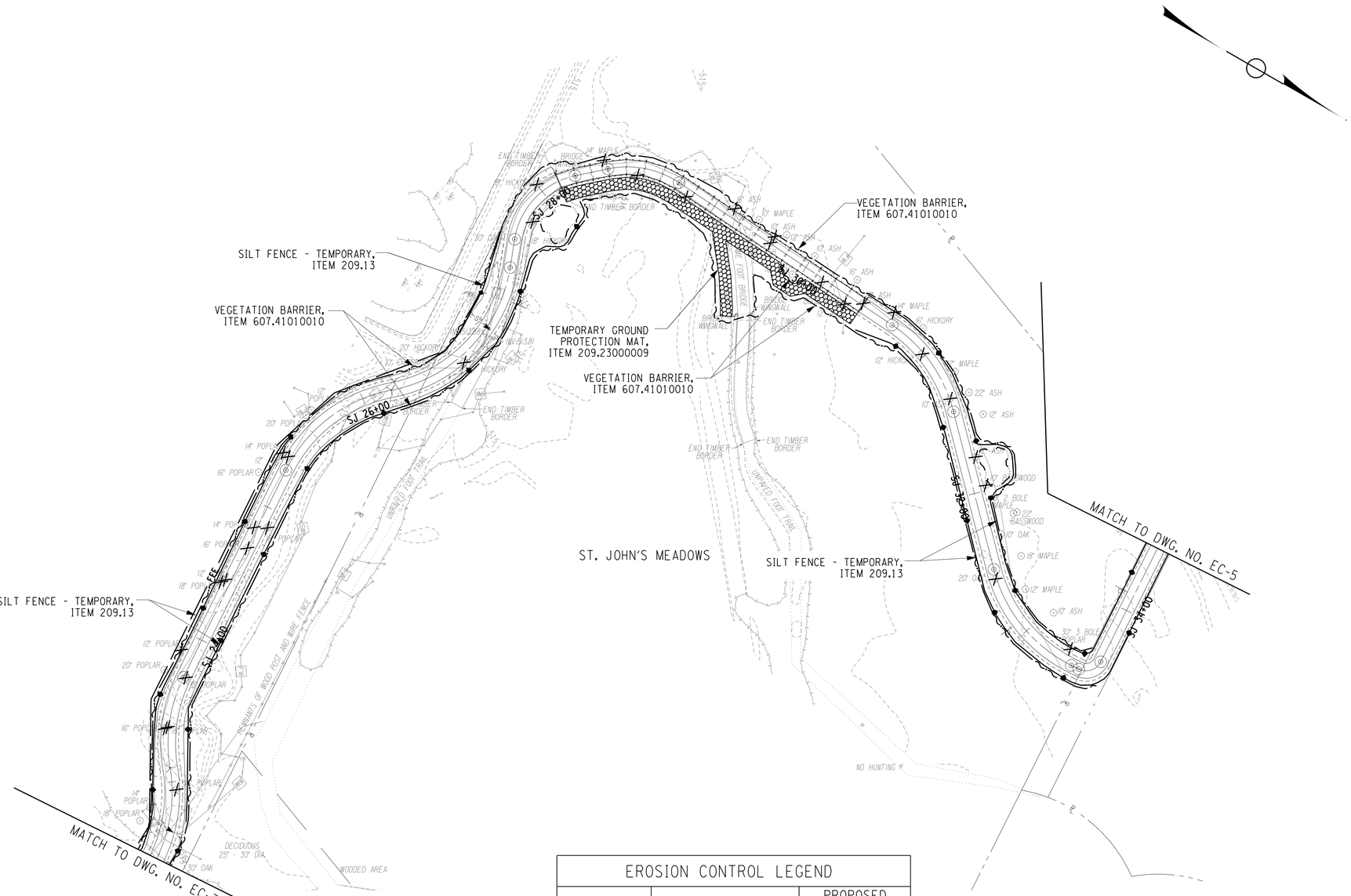

EROSION CONTROL LEGEND		
ITEM NO.	FEATURE	PROPOSED SYMBOL
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209.13	SILT FENCE	
209.22	CONSTRUCTION ENTRANCE	
209.23000009	TEMPORARY GROUND PROTECTION MAT	
607.41010010	TEMPORARY PLASTIC BARRIER FENCE (VEGETATION BARRIER)	
616.16000024	FIBER ROLLS	FR

NOTES

1. TO AVOID DAMAGING TREES WITH CONSTRUCTION EQUIPMENT, PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL PRUNE TREES THAT WILL REMAIN, AS REQUIRED UNDER SECTION 201-3.02 OF THE CLEARING AND GRUBBING SPECIFICATIONS. ALL PRUNING TO BE APPROVED BY THE E.I.C.

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If an item bearing the seal of an engineer, architect, landscape architect or land surveyor is altered, the altering engineer, architect, landscape architect or land surveyor shall affix to the item his/her seal and his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO. 0910001
PROJECT MANAGER R. SCHMID
DRAWN BY C. PERKINS
SCALE AS SHOWN
ISSUE DATE 11/2018

STATE OF NEW YORK · JOSEPH B. SCHMID · LICENSED PROFESSIONAL ENGINEER · 078187

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
EROSION CONTROL PLAN

DRAWING NO.
EC-4

SHEET 45 OF 110

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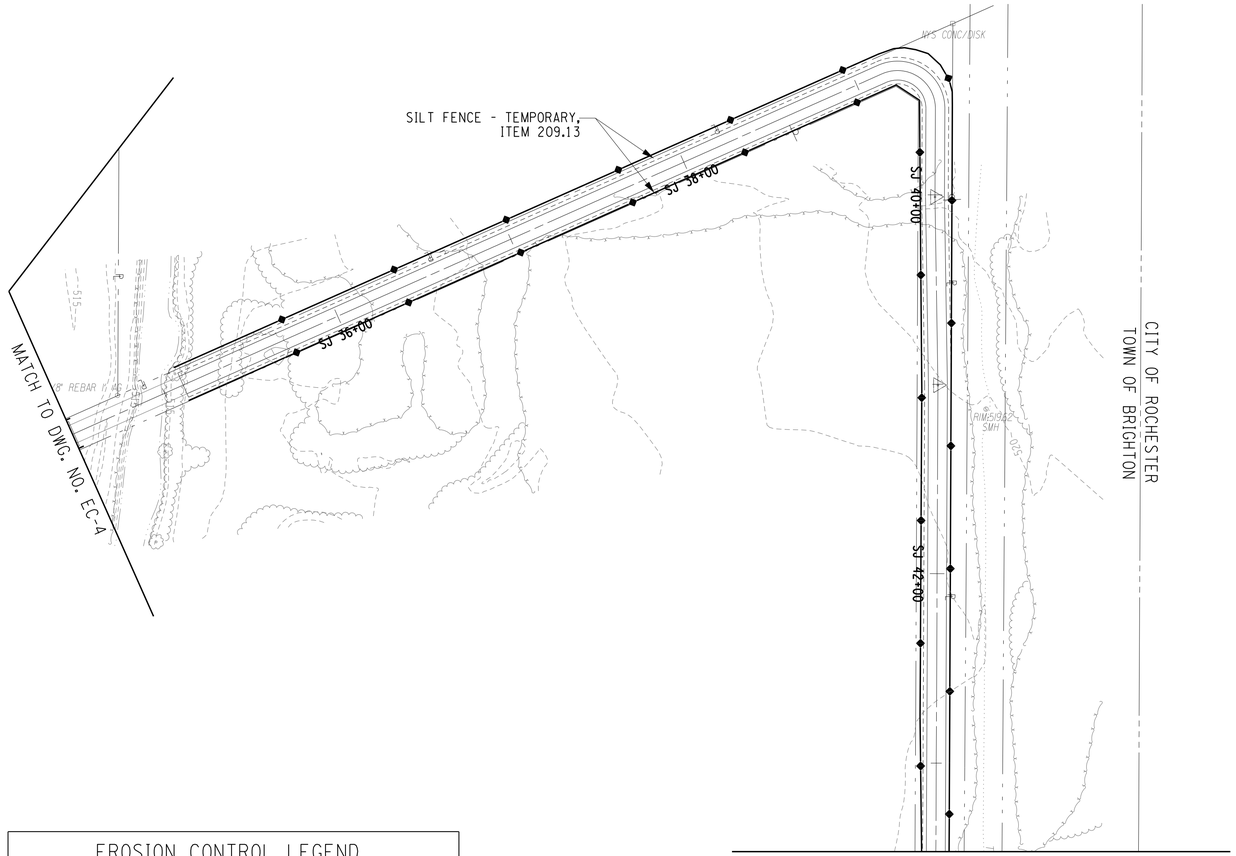

EROSION CONTROL LEGEND		
ITEM NO.	FEATURE	PROPOSED SYMBOL
209.110201	CHECK DAM (GRAVEL BAG)	
209.13	SILT FENCE	
209.22	CONSTRUCTION ENTRANCE	
209.23000009	TEMPORARY GROUND PROTECTION MAT	
607.41010010	TEMPORARY PLASTIC BARRIER FENCE (VEGETATION BARRIER)	
616.16000024	FIBER ROLLS	FR

40 0 40 80 120 160'
SCALE

REV	DESCRIPTION	DATE	BY
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New York State Education Law Section 7209 states that it is a violation of this law, for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor, to alter an item in any way.

If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his/her seal and his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO.
0910001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
AS SHOWN

ISSUE DATE
11/2018

STATE OF NEW YORK
TIMOTHY B. SCHMID
072812
LICENSED PROFESSIONAL ENGINEER

FISHER ASSOCIATES
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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
EROSION CONTROL PLAN

DRAWING NO.
EC-5

SHEET 46 OF 110

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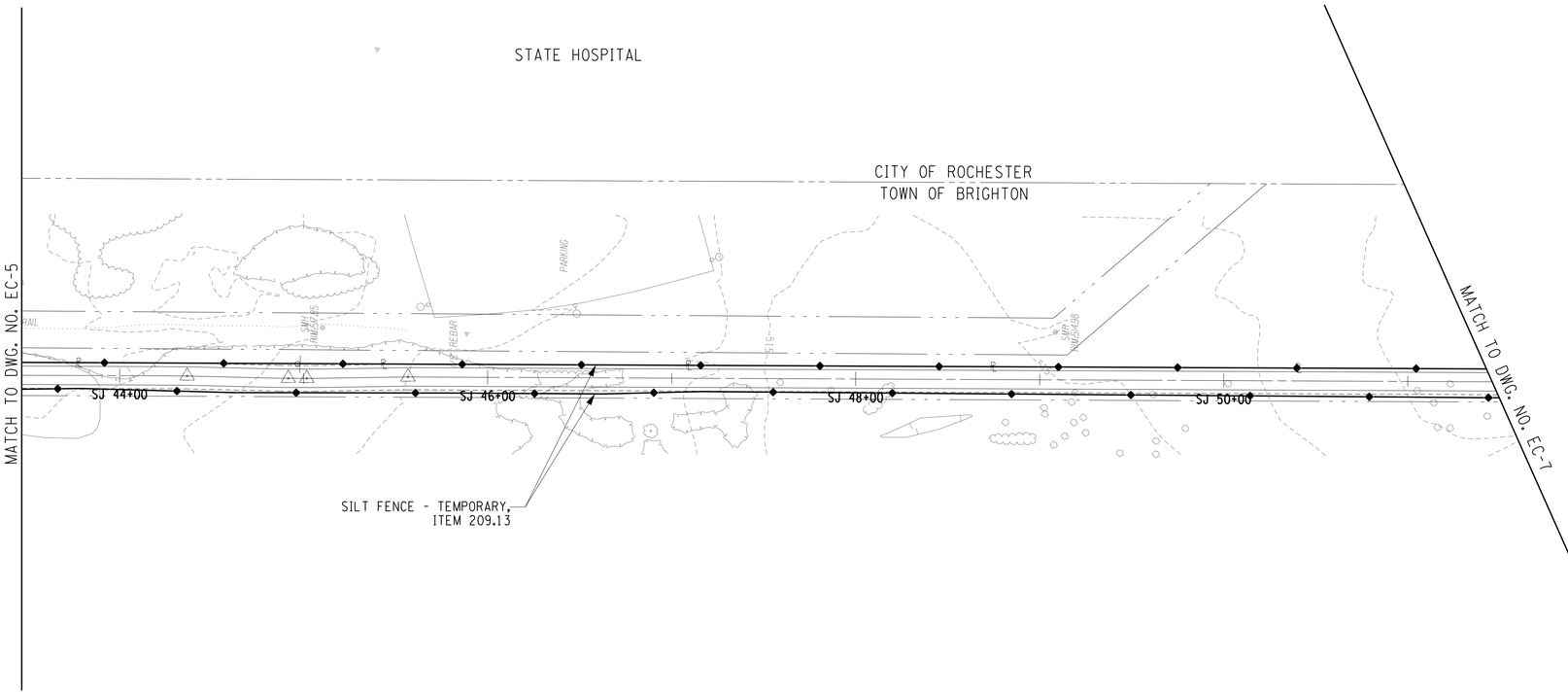

EROSION CONTROL LEGEND		
ITEM NO.	FEATURE	PROPOSED SYMBOL
209.110201	CHECK DAM (GRAVEL BAG)	
209.13	SILT FENCE	
209.22	CONSTRUCTION ENTRANCE	
209.23000009	TEMPORARY GROUND PROTECTION MAT	
607.41010010	TEMPORARY PLASTIC BARRIER FENCE (VEGETATION BARRIER)	
616.16000024	FIBER ROLLS	FR

40 0 40 80 120 160'
SCALE

REV	DESCRIPTION	DATE	BY
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If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his/her seal and his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO.
0910001
PROJECT MANAGER
R. SCHMID
DRAWN BY
C. PERKINS
SCALE
AS SHOWN
ISSUE DATE
11/2018

STATE OF NEW YORK ** ERWIN B. SCHMID ** 071867 LICENSED PROFESSIONAL ENGINEER

FISHER ASSOCIATES
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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
EROSION CONTROL PLAN

DRAWING NO.
EC-6

SHEET 47 OF 110

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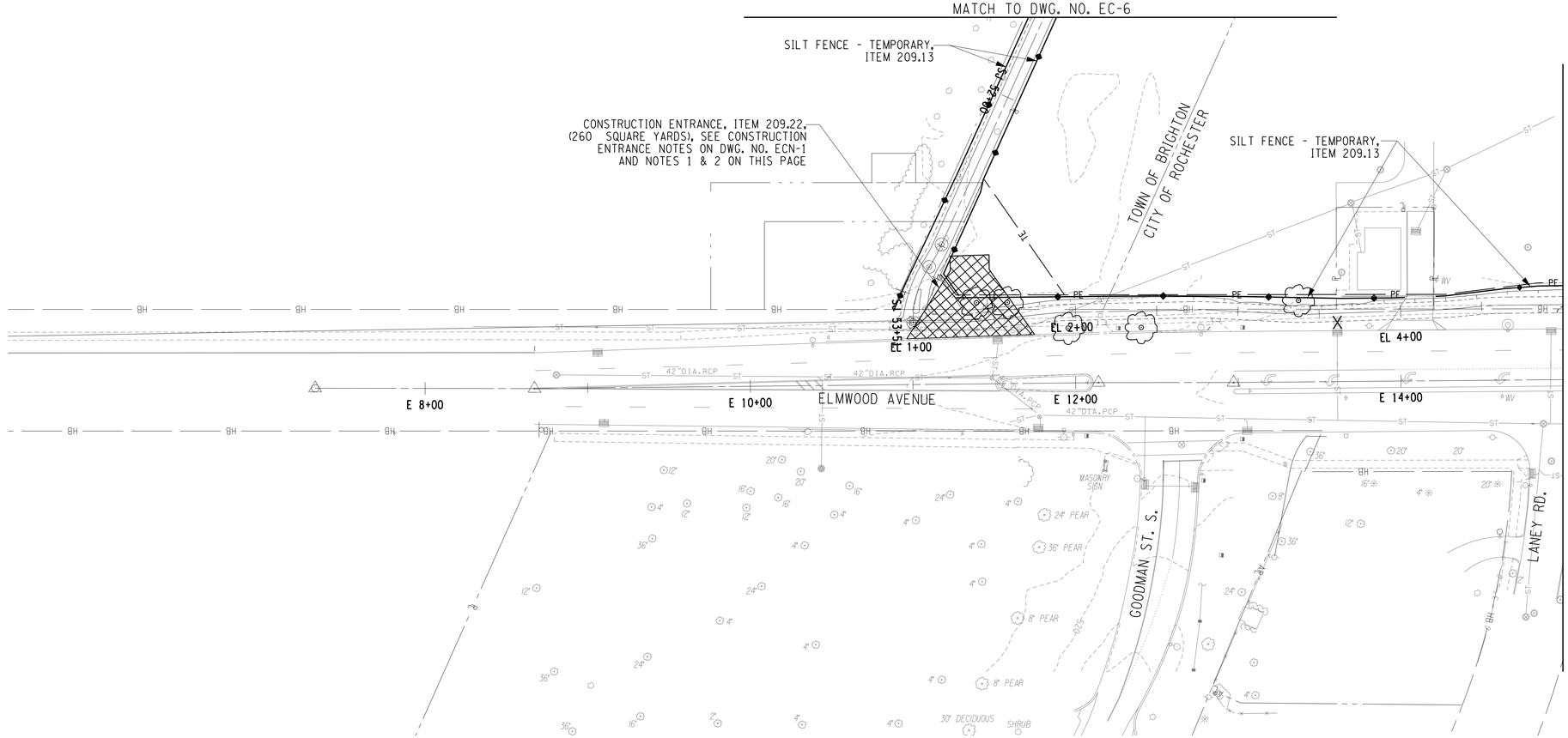

NOTES

1. SEE THE WORK ZONE TRAFFIC CONTROL NOTES ON DWG. NO. GN-1 FOR CONSTRUCTION ENTRANCE WARNING SIGN REQUIREMENTS.
2. THE CONTRACTOR SHALL REMOVE AND REINSTALL CURBING AS NECESSARY TO CREATE THE CONSTRUCTION ENTRANCE. COSTS ASSOCIATED WITH THE CURB WORK ARE INCLUDED IN THE PRICE BID FOR THE CONSTRUCTION ENTRANCES.

EROSION CONTROL LEGEND

ITEM NO.	FEATURE	PROPOSED SYMBOL
209.110201	CHECK DAM (GRAVEL BAG)	
209.13	SILT FENCE	
209.22	CONSTRUCTION ENTRANCE	
209.23000009	TEMPORARY GROUND PROTECTION MAT	
607.41010010	TEMPORARY PLASTIC BARRIER FENCE (VEGETATION BARRIER)	
616.16000024	FIBER ROLLS	FR

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SCALE

REV	DESCRIPTION	DATE	BY
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New York State Education Law Section 7209 states that it is a violation of this law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor, to alter an item in any way.

If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his/her seal and the notation "altered by" followed by his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO. 0911001
PROJECT MANAGER R. SCHMID
DRAWN BY C. PERKINS
SCALE AS SHOWN
ISSUE DATE 11/2018

STATE OF NEW YORK * DANIEL B. SCHMID * 078127 * LICENSED PROFESSIONAL ENGINEER

FISHER ASSOCIATES
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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
EROSION CONTROL PLAN

DRAWING NO.
EC-7

SHEET 48 OF 110

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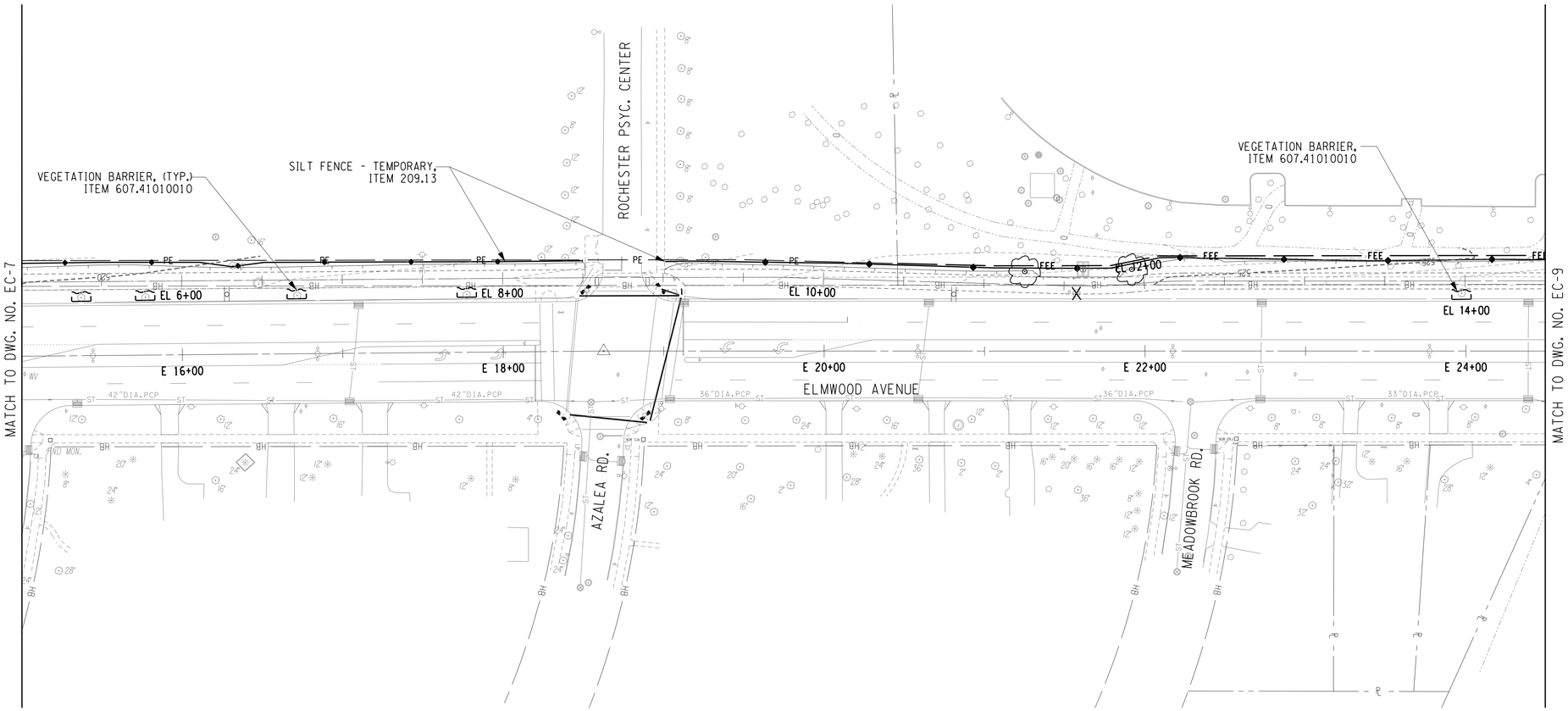

EROSION CONTROL LEGEND		
ITEM NO.	FEATURE	PROPOSED SYMBOL
209.110201	CHECK DAM (GRAVEL BAG)	
209.13	SILT FENCE	
209.22	CONSTRUCTION ENTRANCE	
209.23000009	TEMPORARY GROUND PROTECTION MAT	
607.41010010	TEMPORARY PLASTIC BARRIER FENCE (VEGETATION BARRIER)	
616.16000024	FIBER ROLLS	FR

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SCALE

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If an item bearing the seal of an engineering and land surveying business corporation is altered, the item shall bear the seal and the signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO.
0911001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
AS SHOWN

ISSUE DATE
11/2018

STATE OF NEW YORK
STEVEN B. SCHMID
078187
LICENSED PROFESSIONAL ENGINEER

FISHER ASSOCIATES
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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
EROSION CONTROL PLAN

DRAWING NO.
EC-8

SHEET 49 OF 110

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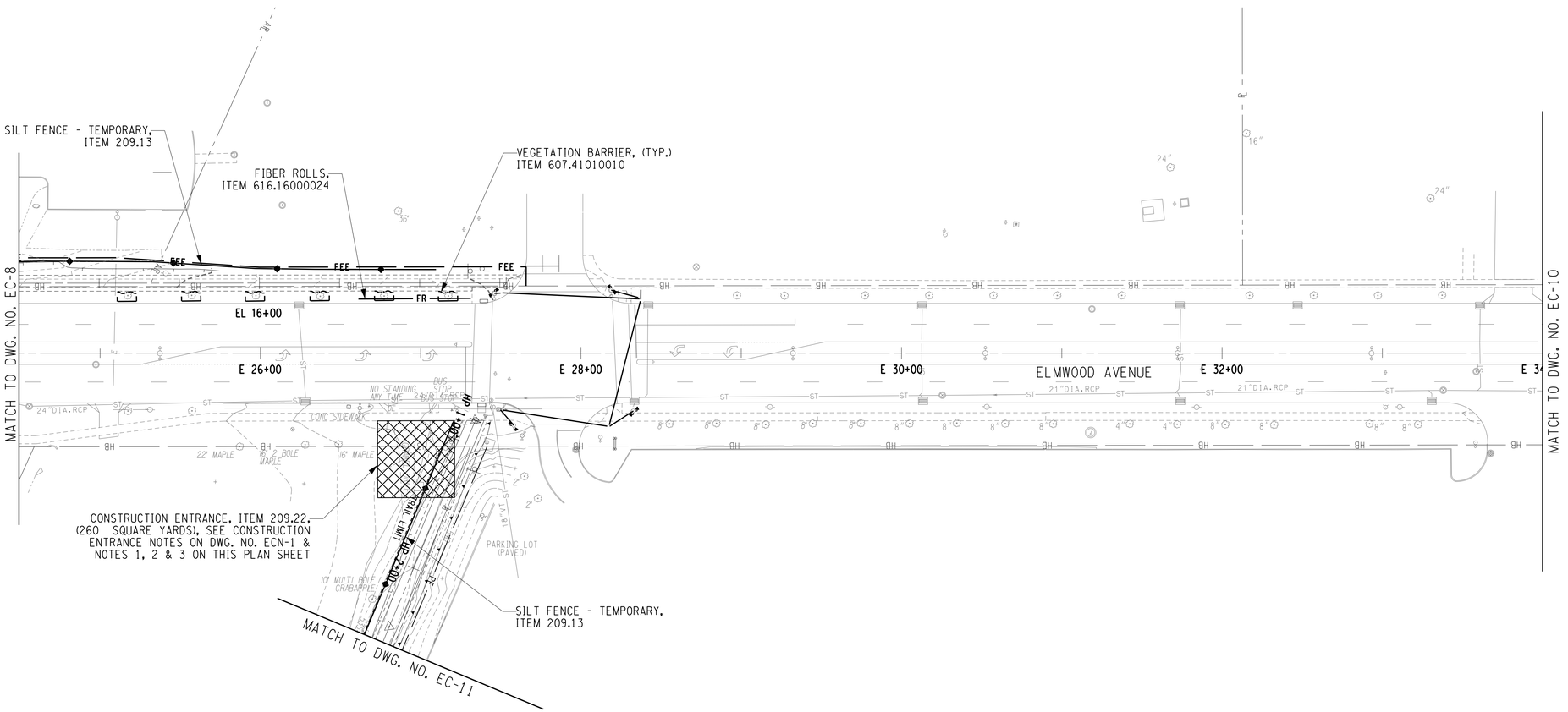

EROSION CONTROL LEGEND		
ITEM NO.	FEATURE	PROPOSED SYMBOL
209.110201	CHECK DAM (GRAVEL BAG)	
209.13	SILT FENCE	
209.22	CONSTRUCTION ENTRANCE	
209.23000009	TEMPORARY GROUND PROTECTION MAT	
607.41010010	TEMPORARY PLASTIC BARRIER FENCE (VEGETATION BARRIER)	
616.16000024	FIBER ROLLS	FR

NOTES

1. THE CONSTRUCTION ENTRANCE SHOWN IS AN OPTIONAL LOCATION AND CAN BE INSTALLED NEAR SOUTH AVENUE, SEE DWG. NO. EC-12 FOR OPTIONAL LOCATION.
2. SEE THE WORK ZONE TRAFFIC CONTROL NOTES ON DWG. NO. GN-1 FOR CONSTRUCTION ENTRANCE WARNING SIGN REQUIREMENTS.
3. THE CONTRACTOR SHALL REMOVE AND REINSTALL CURBING AS NECESSARY TO CREATE THE CONSTRUCTION ENTRANCE. COSTS ASSOCIATED WITH THE CURB WORK ARE INCLUDED IN THE PRICE BID FOR THE CONSTRUCTION ENTRANCES.

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New York State Education Law Section 7209 states that it is a violation of this law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor, to alter an item in any way.

If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his/her seal and his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO.
0911001
PROJECT MANAGER
R. SCHMID
DRAWN BY
C. PERKINS
SCALE
AS SHOWN
ISSUE DATE
11/2018

STATE OF NEW YORK * BRIAN B. SCHMID * 078187 * LICENSED PROFESSIONAL ENGINEER

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
EROSION CONTROL PLAN

DRAWING NO.
EC-9

SHEET 50 OF 110

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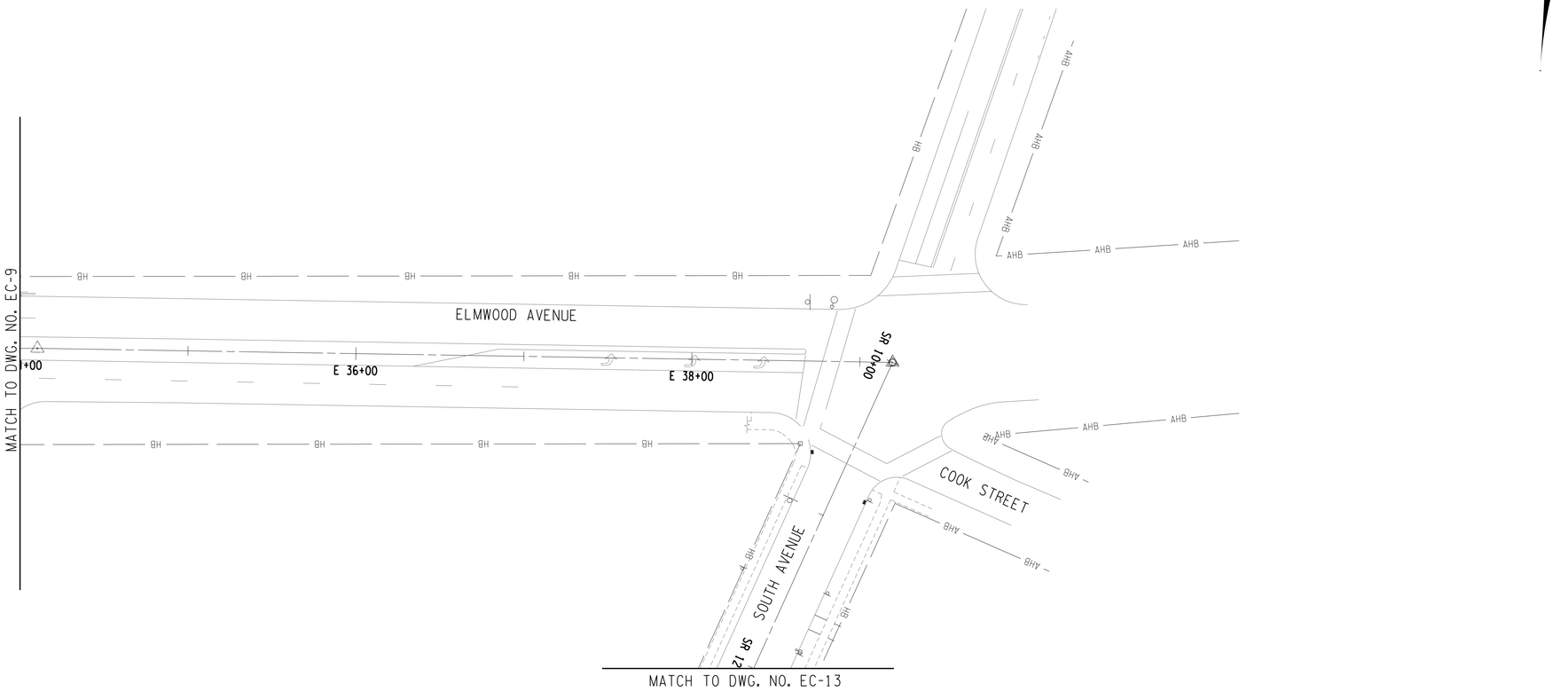

EROSION CONTROL LEGEND		
ITEM NO.	FEATURE	PROPOSED SYMBOL
209.110201	CHECK DAM (GRAVEL BAG)	
209.13	SILT FENCE	
209.22	CONSTRUCTION ENTRANCE	
209.23000009	TEMPORARY GROUND PROTECTION MAT	
607.41010010	TEMPORARY PLASTIC BARRIER FENCE (VEGETATION BARRIER)	
616.16000024	FIBER ROLLS	FR

NO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES ARE SHOWN ON THIS DRAWING

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SCALE

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If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his/her seal and his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO.
0910001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
AS SHOWN

ISSUE DATE
11/2018

STATE OF NEW YORK ★ CHRISTOPHER B. SCHMID ★ 072887 ★ LICENSED PROFESSIONAL ENGINEER

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
EROSION CONTROL PLAN

DRAWING NO.
EC-10

SHEET 51 OF 110

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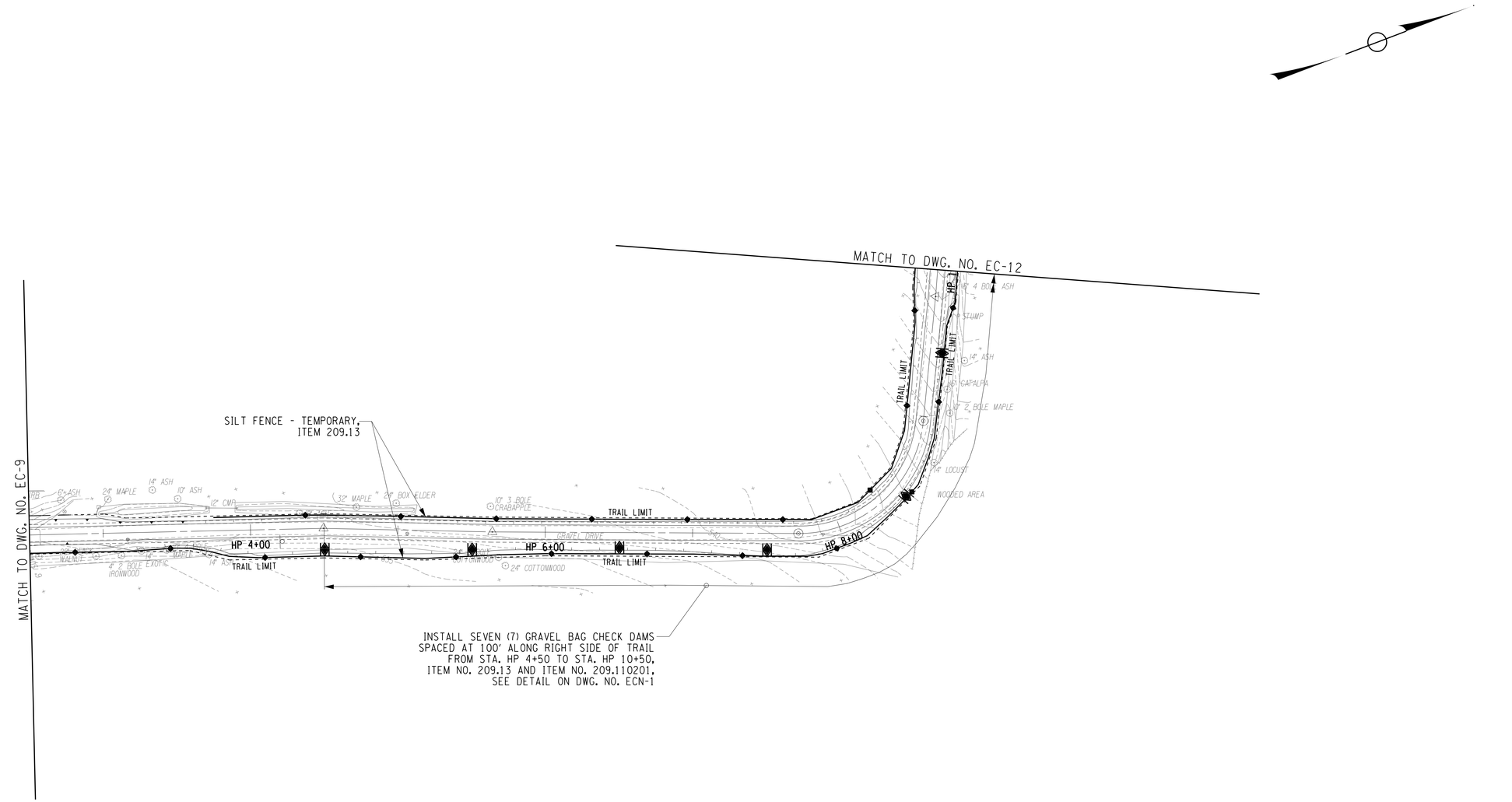

EROSION CONTROL LEGEND		
ITEM NO.	FEATURE	PROPOSED SYMBOL
209.110201	CHECK DAM (GRAVEL BAG)	
209.13	SILT FENCE	
209.22	CONSTRUCTION ENTRANCE	
209.23000009	TEMPORARY GROUND PROTECTION MAT	
607.41010010	TEMPORARY PLASTIC BARRIER FENCE (VEGETATION BARRIER)	
616.16000024	FIBER ROLLS	FR

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SCALE

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If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his/her seal and the notation "altered by" followed by his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO.
0910001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
AS SHOWN

ISSUE DATE
11/2018

STATE OF NEW YORK
JOHN B. SCHMID
072887
LICENSED PROFESSIONAL ENGINEER

FISHER ASSOCIATES
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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
EROSION CONTROL PLAN

DRAWING NO.
EC-11

SHEET 52 OF 110

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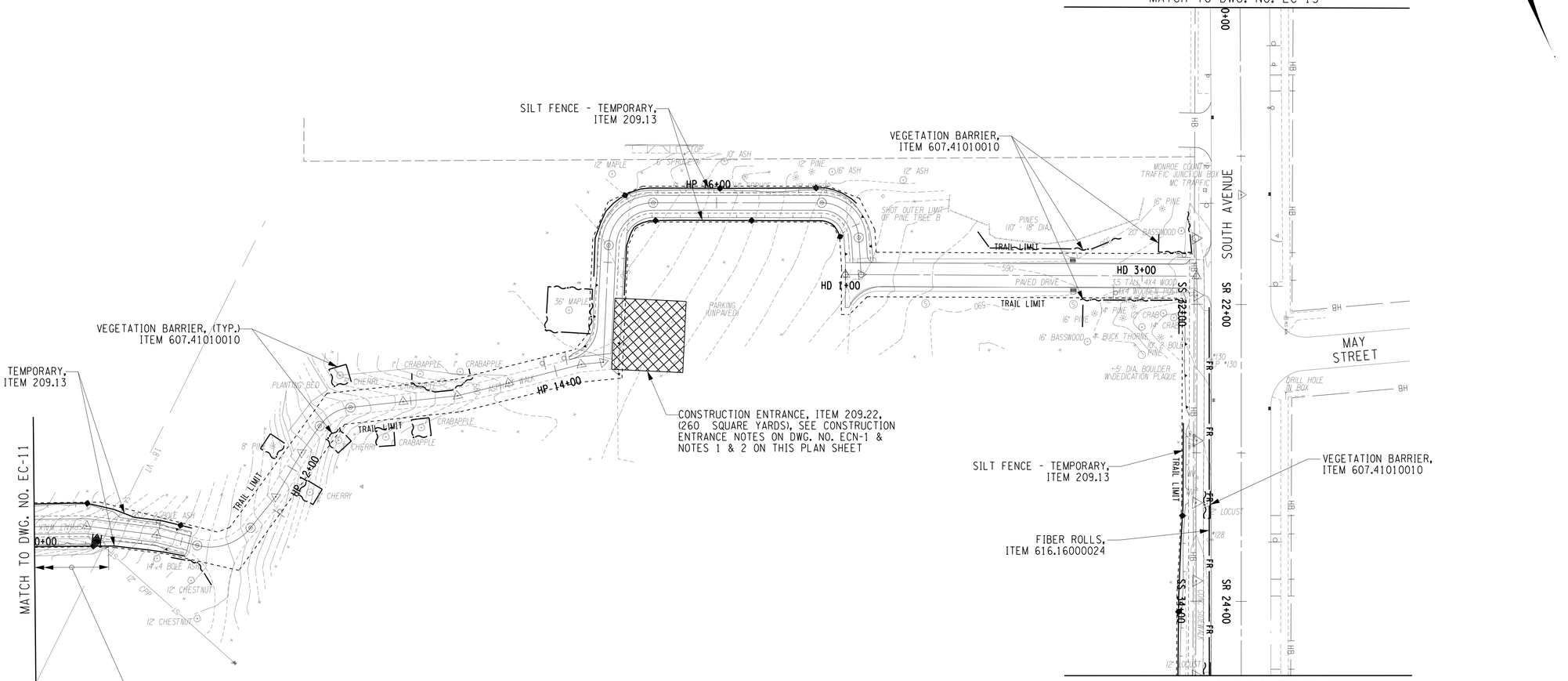

EROSION CONTROL LEGEND		
ITEM NO.	FEATURE	PROPOSED SYMBOL
209.110201	CHECK DAM (GRAVEL BAG)	
209.13	SILT FENCE	
209.22	CONSTRUCTION ENTRANCE	
209.23000009	TEMPORARY GROUND PROTECTION MAT	
607.41010010	TEMPORARY PLASTIC BARRIER FENCE (VEGETATION BARRIER)	
616.16000024	FIBER ROLLS	FR

NOTES

1. THE CONSTRUCTION ENTRANCE SHOWN IS AN OPTIONAL LOCATION AND CAN BE INSTALLED AT ELMWOOD AVENUE, SEE DWG. NO. EC-9 FOR OPTIONAL LOCATION.
2. SEE THE WORK ZONE TRAFFIC CONTROL NOTES ON DWG. NO. GN-1 FOR CONSTRUCTION ENTRANCE WARNING SIGN REQUIREMENTS.

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SCALE

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If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his/her seal and the notation "altered by" followed by his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO. 0911001
PROJECT MANAGER R. SCHMID
DRAWN BY C. PERKINS
SCALE AS SHOWN
ISSUE DATE 11/2018

STATE OF NEW YORK ★ ★ ★ LICENSED PROFESSIONAL ENGINEER ★ ★ ★ 078420 ★ ★ ★ ERIN B. SCHMID

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
EROSION CONTROL PLAN

DRAWING NO.
EC-12

SHEET 53 OF 110

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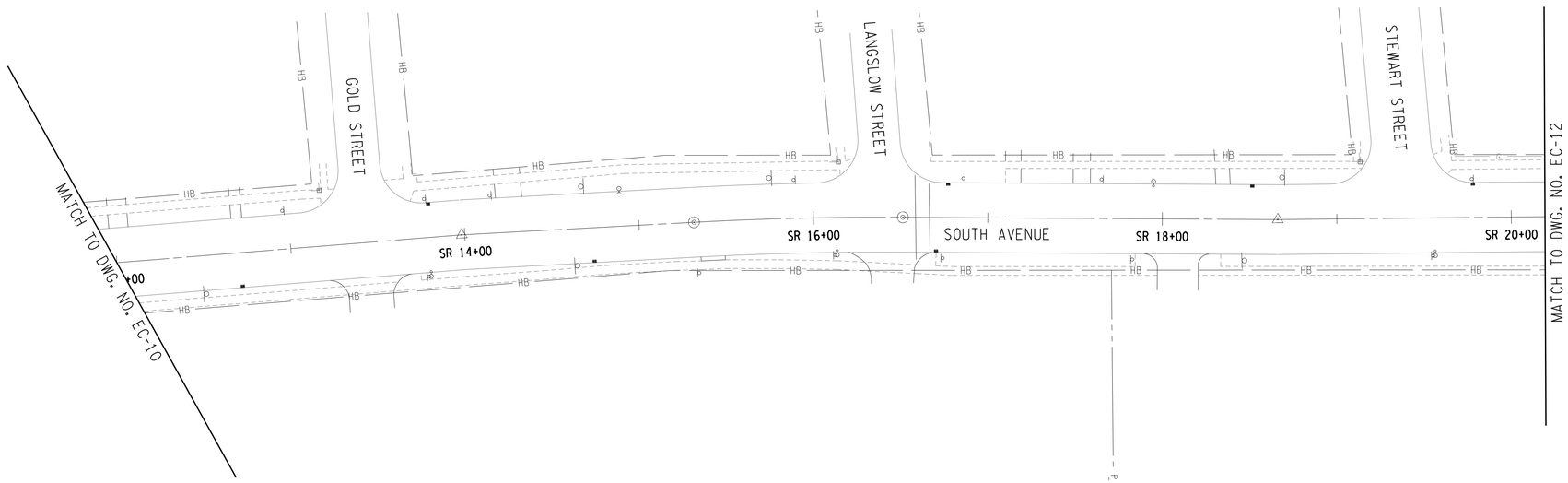

EROSION CONTROL LEGEND		
ITEM NO.	FEATURE	PROPOSED SYMBOL
209.110201	CHECK DAM (GRAVEL BAG)	
209.13	SILT FENCE	
209.22	CONSTRUCTION ENTRANCE	
209.23000009	TEMPORARY GROUND PROTECTION MAT	
607.41010010	TEMPORARY PLASTIC BARRIER FENCE (VEGETATION BARRIER)	
616.16000024	FIBER ROLLS	FR

NO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES ARE SHOWN ON THIS DRAWING

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FA PROJECT NO.
0910001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
AS SHOWN

ISSUE DATE
11/2018

STATE OF NEW YORK ★ JOHN B. SCHMID ★ 078127 ★ LICENSED PROFESSIONAL ENGINEER

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
EROSION CONTROL PLAN

DRAWING NO.
EC-13

SHEET 54 OF 110

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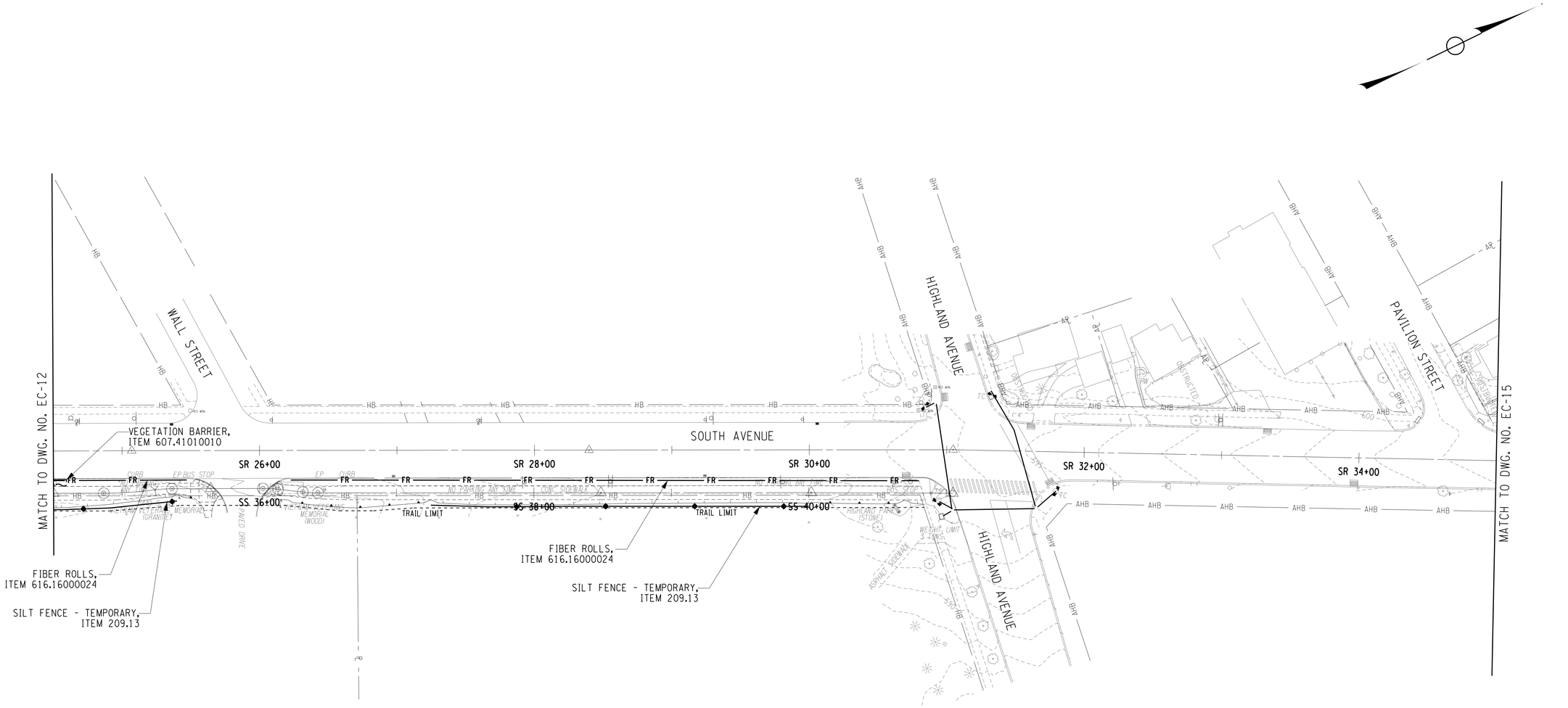

EROSION CONTROL LEGEND		
ITEM NO.	FEATURE	PROPOSED SYMBOL
209.110201	CHECK DAM (GRAVEL BAG)	
209.13	SILT FENCE	
209.22	CONSTRUCTION ENTRANCE	
209.23000009	TEMPORARY GROUND PROTECTION MAT	
607.41010010	TEMPORARY PLASTIC BARRIER FENCE (VEGETATION BARRIER)	
616.16000024	FIBER ROLLS	FR

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SCALE

REV	DESCRIPTION	DATE	BY
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If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his/her seal and the notation "altered by" followed by his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO.
0910001
PROJECT MANAGER
R. SCHMID
DRAWN BY
C. PERKINS
SCALE
AS SHOWN
ISSUE DATE
11/2018

STATE OF NEW YORK
DANIEL B. SCHMID
072857
LICENSED PROFESSIONAL ENGINEER

FISHER ASSOCIATES
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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
EROSION CONTROL PLAN

DRAWING NO.
EC-14

SHEET 55 OF 110

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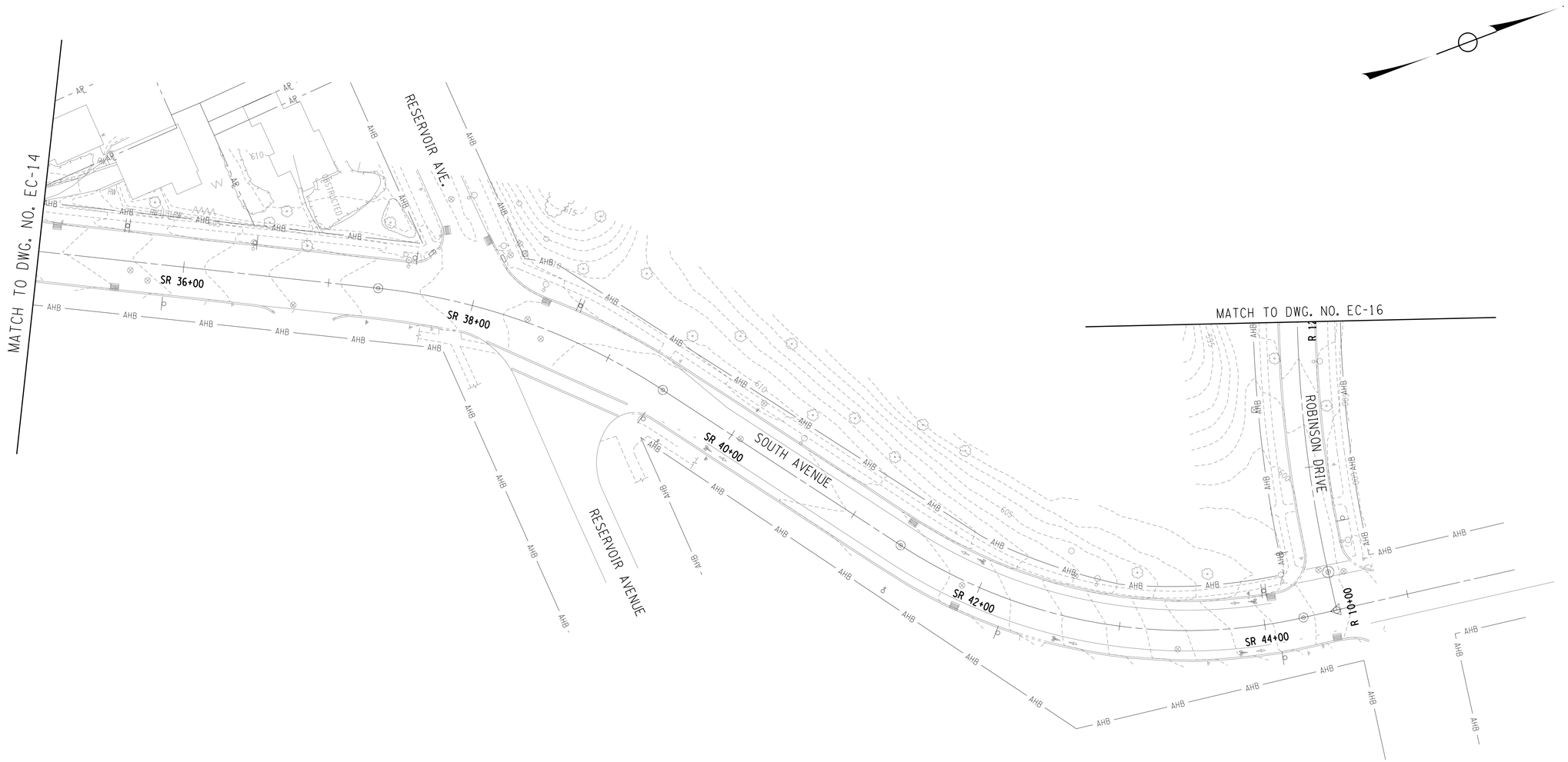

EROSION CONTROL LEGEND		
ITEM NO.	FEATURE	PROPOSED SYMBOL
209.110201	CHECK DAM (GRAVEL BAG)	
209.13	SILT FENCE	
209.22	CONSTRUCTION ENTRANCE	
209.23000009	TEMPORARY GROUND PROTECTION MAT	
607.41010010	TEMPORARY PLASTIC BARRIER FENCE (VEGETATION BARRIER)	
616.16000024	FIBER ROLLS	FR

NO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES ARE SHOWN ON THIS DRAWING

40 0 40 80 120 160'
SCALE

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
0910001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
AS SHOWN

ISSUE DATE
11/2018

STATE OF NEW YORK
JOHN B. SCHMID
LICENSED PROFESSIONAL ENGINEER
071817

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
EROSION CONTROL PLAN

DRAWING NO.
EC-15

SHEET 56 OF 110

H:\Projects\091001-Highland Park-Canalway Trail\Eng\CUT\091001_EC-15.dgn
11/16/2018
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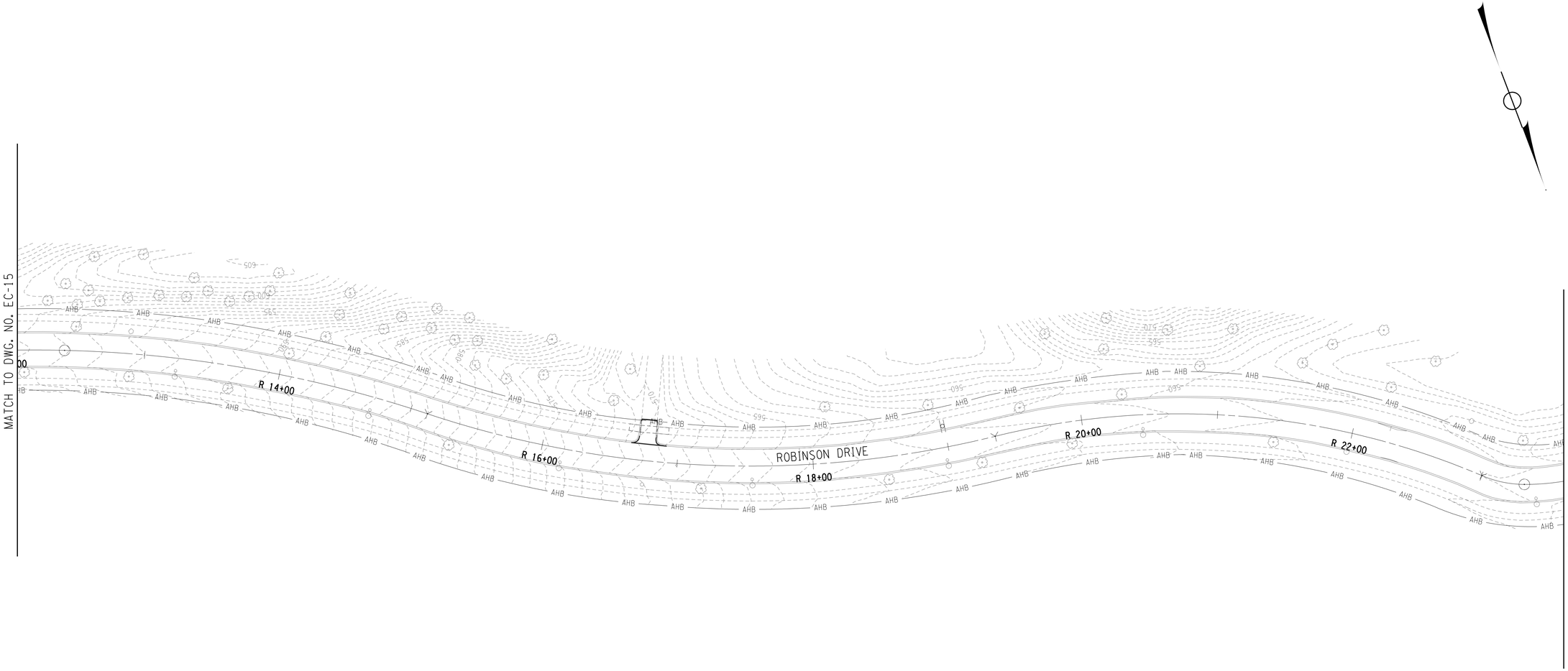
TimD



EROSION CONTROL LEGEND		
ITEM NO.	FEATURE	PROPOSED SYMBOL
209.110201	CHECK DAM (GRAVEL BAG)	
209.13	SILT FENCE	
209.22	CONSTRUCTION ENTRANCE	
209.23000009	TEMPORARY GROUND PROTECTION MAT	
607.41010010	TEMPORARY PLASTIC BARRIER FENCE (VEGETATION BARRIER)	
616.16000024	FIBER ROLLS	FR

NO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES ARE SHOWN ON THIS DRAWING

40 0 40 80 120 160'
SCALE

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FA PROJECT NO. 0910001
PROJECT MANAGER R. SCHMID
DRAWN BY C. PERKINS
SCALE AS SHOWN
ISSUE DATE 11/2018

STATE OF NEW YORK ★ ROBERT B. SCHMID ★ 072887 ★ LICENSED PROFESSIONAL ENGINEER

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
EROSION CONTROL PLAN

DRAWING NO.
EC-16

SHEET 57 OF 110

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11/16/2018 10:56:51 AM
TimD

EROSION CONTROL LEGEND		
ITEM NO.	FEATURE	PROPOSED SYMBOL
209.110201	CHECK DAM (GRAVEL BAG)	
209.13	SILT FENCE	
209.22	CONSTRUCTION ENTRANCE	
209.23000009	TEMPORARY GROUND PROTECTION MAT	
607.41010010	TEMPORARY PLASTIC BARRIER FENCE (VEGETATION BARRIER)	
616.16000024	FIBER ROLLS	FR

NO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES ARE SHOWN ON THIS DRAWING

40 0 40 80 120 160'
SCALE

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FA PROJECT NO.
0910001
PROJECT MANAGER
R. SCHMID
DRAWN BY
C. PERKINS
SCALE
AS SHOWN
ISSUE DATE
11/2018

STATE OF NEW YORK
JOSEPH B. SCHMID
078127
LICENSED PROFESSIONAL ENGINEER

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
EROSION CONTROL PLAN

DRAWING NO.
EC-17

SHEET 58 OF 110

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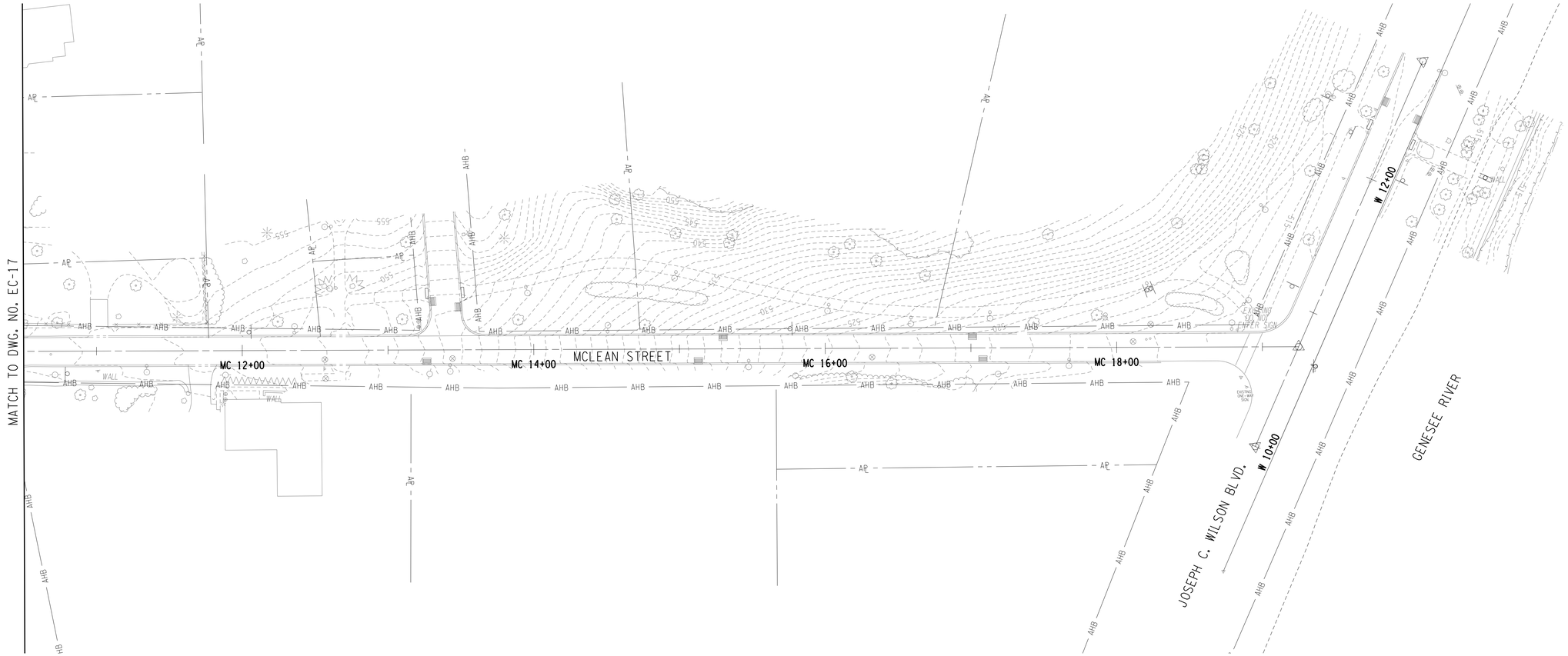
11/16/2018 10:56:52 AM
TimD



EROSION CONTROL LEGEND		
ITEM NO.	FEATURE	PROPOSED SYMBOL
209.110201	CHECK DAM (GRAVEL BAG)	
209.13	SILT FENCE	
209.22	CONSTRUCTION ENTRANCE	
209.23000009	TEMPORARY GROUND PROTECTION MAT	
607.41010010	TEMPORARY PLASTIC BARRIER FENCE (VEGETATION BARRIER)	
616.16000024	FIBER ROLLS	FR

NO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES ARE SHOWN ON THIS DRAWING

40 0 40 80 120 160'
SCALE

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FA PROJECT NO.
0910001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
AS SHOWN

ISSUE DATE
11/2018

STATE OF NEW YORK
GLENN B. SCHMID
071812
LICENSED PROFESSIONAL ENGINEER

FISHER ASSOCIATES
WWW.FISHERASSOC.COM

PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
EROSION CONTROL PLAN

DRAWING NO.
EC-18

SHEET 59 OF 110

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11/16/2018
10:56:53 AM
TimD

TREE REMOVAL, SEE TABLE ON DWG. NO. MT-2

FOR HORIZONTAL ALIGNMENT "SG" INFORMATION SEE DWG. NO. SC-2

WESTFALL OFFICE GROUP LLC (REPUTED OWNER) L. 10548 P. 387 TA# 149.06-1-2.411

WESTFALL OFFICE GROUP LLC (REPUTED OWNER) L. 10642 P. 373 TA# 149.06-1-2.522

CONTINENTAL CROSSWALK, 12' WIDE, SEE DETAIL ON DWG. NO. MD-1

VA VENTURE ROCHESTER, LLC (REPUTED OWNER) L. 8662 P. 562 TA# 136.18-1-4

NEW 10' WIDE CONCRETE SHARED-USE TRAIL

1-6 / 6

1-7 / 3 (BACK TO BACK)

HCT-1 PE

HCT-2 PE

HCT-3 PE

1-8 / 16

1-9 / 10

1-10 / 55 (BACK TO BACK)

1-5 / 7 YIELD

CONTINENTAL CROSSWALK, 12' WIDE, SEE DETAIL ON DWG. NO. MD-1

1-4 / 6

1-3 / 5 NO MOTOR VEHICLES

1-2 / 7 YIELD

SAWGRASS DRIVE

WESTFALL ROAD

MATCH TO DWG. NO. PL-2

BRIGHTON PARK

4" WIDE WHITE STRIPES, 45° DIAGONAL @ 2' O.C., SEE DETAIL ON NYSDOT STD. SHEET 608-02, ITEM 685.11

SEE DWG. NO. LA-1 FOR KIOSK DETAILS

WIDEN EXISTING 7' WIDE ASPHALT TRAIL TO 10'

1-1 / 1

PROJECT BEGINS STA. SG 1+00

EXISTING 10' WIDE ASPHALT TRAIL

TO ERIE CANAL HERITAGE TRAIL (CANALWAY TRAIL)

THE PEOPLE OF THE STATE OF NEW YORK (REPUTED OWNER) TAX MAP NO. 149.07-1-5

PAYCHECK OF NEW YORK LLC (REPUTED OWNER) L. 10120 P. 65 TA# 149.06-1-2.303

CUT CURB AND CONSTRUCT NEW RAMP, SEE DETAIL ON DWG. NO. MD-1, AND TABLE ON DWG. NO. MT-1, TYP.

SIGN LEGEND

- L/T — NEW SIGN LOCATION NUMBER TEXT NUMBER
- L — SIGN REMOVAL
- L/T — RELOCATE TO POSITION SHOWN
- R — TO REMAIN

NOTE

1. LANE CLOSURES ARE NOT ALLOWED ON WEEKDAYS, DURING PEAK HOURS, BETWEEN THE HOURS OF 7AM TO 9AM, AND 4PM TO 6PM.

40 0 40 80 120 160'
SCALE

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO. 0911001
PROJECT MANAGER R. SCHMID
DRAWN BY C. PERKINS
SCALE AS SHOWN
ISSUE DATE 11/2018

STATE OF NEW YORK · KEVIN B. SCHMID · 078871 · LICENSED PROFESSIONAL ENGINEER

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
PLAN

DRAWING NO.
PL-1

SHEET 60 OF 110

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11/16/2018 10:56:54 AM
TimD

TE
(FOR CONSTRUCTION ACCESS)
HCT-15

TE — TE — TE — TE — TE — TE — TE — TE — TE

JURISDICTIONAL LINE

PEOPLE OF THE STATE OF NEW YORK
(UNDER THE JURISDICTION OF THE STATE UNIVERSITY OF NEW YORK)
(REPUTED OWNER)
L. 10862 P. 309
TA# 136J8-1-1

PEOPLE OF THE STATE OF NEW YORK
(UNDER THE JURISDICTION OF THE OFFICE FOR
PEOPLE WITH DEVELOPMENTAL DISABILITIES)
(REPUTED OWNER)
L. 10862 P. 309
TA# 136J8-1-1

MONROE DEVELOPMENTAL CENTER

MATCH TO DWG. NO. PL-1

MATCH TO DWG. NO. PL-3

2-3
3
(BACK
TO
BACK)

INSTALL A SPLIT RAIL FENCE FROM STA. SJ 4+00
TO STA. SJ 6+90, AT AN OFFSET OF 7.0' LEFT,
SEE THE DETAIL ON DRAWING NO. MD-1

2-4
49
HILL
BLOCKS
VIEW

2-6
17

HCT-16
FEE

SITE DEVELOPMENT /
STORMWATER PONDS
(BY OTHERS)

DS
2' X 3' GRATE
INV= 2.87' 12" CONC

HILL
BLOCKS
VIEW
2-5
49

HCT-4
FEE

DS
INV= 2.35' 12" LINE

FOR HORIZONTAL ALIGNMENT "SJ"
INFORMATION SEE DWG. NO. SC-6

FRAME CURB

CONC. CURB

FEE

30'

76'

SJ 4+00 — SJ 5+00 — SJ 8+00 — SJ 10+00

DECIDUOUS/CONIFER MIX
2' - 15" DIA.

DECIDUOUS 2' - 24" DIA.

RUINS
VINES
AND
BRUSH

DEBRIS

FRAME SHED

1 1/2 STORY
HOUSE

18" MAPLE

R&E 80
RTC 214

ROW MARKER,
ITEM 625.05,
(TYP.)

2-1
9

SEE DWG. NO. LA-1
FOR KIOSK DETAILS

2-2
11

NEW 10' WIDE STONE DUST
SHARED-USE TRAIL

EXTEND TWO 8" HDPE PIPES, INSTALL
PERFORATED PIPE / LEVEL SPREADER,
SEE DETAIL ON DWG. NO. MD-3

IMOGENE M. GILBERT(LIFE TENANT)
SUZANNE, WILLIAM,SCOTT &
LAWRENCE GILBERT
(REPUTED OWNERS)
L. 9873 P. 547
TA# 136J9-1-10

SUZANNE, WILLIAM, SCOTT &
LAWRENCE GILBERT
(REPUTED OWNERS)
L. 9868 P. 341
TA# 136J9-1-9

SUZANNE, WILLIAM, SCOTT &
LAWRENCE GILBERT
(REPUTED OWNERS)
L. 9868 P. 341
TA# 136J9-1-8

IRMA KOCSIS
(REPUTED OWNER)
L. 7037 P. 64
TA# 136J9-1-7

IRMA KOCSIS
(REPUTED OWNER)
L. 7037 P. 64
TA# 136J9-1-6

W.E. STALL ROAD VAR. R.O.W. — HB

SIGN LEGEND

L / T	NEW SIGN LOCATION NUMBER TEXT NUMBER
L	SIGN REMOVAL
L / T	RELOCATE TO POSITION SHOWN
R	TO REMAIN

NOTE

1. LANE CLOSURES ARE NOT ALLOWED ON WEEKDAYS, DURING PEAK HOURS, BETWEEN THE HOURS OF 7AM TO 9AM, AND 4PM TO 6PM.

40 0 40 80 120 160'
SCALE

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
0910001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
AS SHOWN

ISSUE DATE
11/2018

STATE OF NEW YORK ★ RUSSELL B. SCHMID ★ 078427 ★ LICENSED PROFESSIONAL ENGINEER

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
PLAN

DRAWING NO.
PL-2

SHEET 61 OF 110

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11/16/2018 10:56:55 AM
TimD

MATCH TO DWG. NO. PL-2

MATCH TO DWG. NO. PL-4

NEW 10' WIDE ASPHALT SHARED-USE TRAIL

NEW 10' WIDE STONE DUST SHARED-USE TRAIL

FOR HORIZONTAL ALIGNMENT "SJ" INFORMATION SEE DWG. NO. SC-6

HCT-4
FEE

ROW MARKER, ITEM 625.05, (TYP.)

SJ 12+00 SJ 14+00 SJ 16+00 SJ 18+00 SJ 20+00 SJ 22+00

FEE

PEOPLE OF THE STATE OF NEW YORK
(UNDER THE JURISDICTION OF THE OFFICE FOR PEOPLE WITH DEVELOPMENTAL DISABILITIES)
(REPUTED OWNER)
L. 10862 P. 309
TA# 136J8-1-1

ST. JOHN'S HOME OF THE AGING
(REPUTED OWNER)
L. 8284 P. 209
TA# 136J5-1-1.5

SUZANNE, WILLIAM, SCOTT & LAWRENCE GILBERT
(REPUTED OWNERS)
L. 9868 P. 341
TA# 136J9-1-5

TOWN OF BRIGHTON
(REPUTED OWNER)
L. 8564 P. 349
TA# 136J9-1-4

TOWN OF BRIGHTON
(REPUTED OWNER)
L. 8564 P. 349
TA# 136J9-1-3

THE TOWNHOMES OF MILLBROOKE, INC.
(REPUTED OWNER)
L. 6254 P. 271
TA# 136J9-1-2

THE TOWNHOMES OF MILLBROOKE, INC.
(REPUTED OWNER)
L. 6254 P. 271
TA# 136J9-1-1

THE TOWNHOMES OF MILLBROOKE, INC.
(REPUTED OWNER)
L. 6254 P. 271
TA# 136J5-1-34

TOWN OF BRIGHTON
(REPUTED OWNER)
L. 8564 P. 349
TA# 136J5-1-33

(80' ROW)

3-1
1

4" SPRUCE
DECIDUOUS 20' DIA.
18" OAK
15" OAK
MH (TOP ONLY)
DECIDUOUS 24" DIA.
24" OAK
30" OAK
24" COTTONWOOD
20" OAK

SIGN LEGEND

- L/T — NEW SIGN LOCATION NUMBER / TEXT NUMBER
- L — SIGN REMOVAL
- L/T — RELOCATE TO POSITION SHOWN
- R — TO REMAIN

40 0 40 80 120 160'
SCALE

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
0910001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
AS SHOWN

ISSUE DATE
11/2018

STATE OF NEW YORK ★ ★ LICENSED PROFESSIONAL ENGINEER
ERIN B. SCHMID
071812

FISHER ASSOCIATES
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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
PLAN

DRAWING NO.
PL-3

SHEET 62 OF 110

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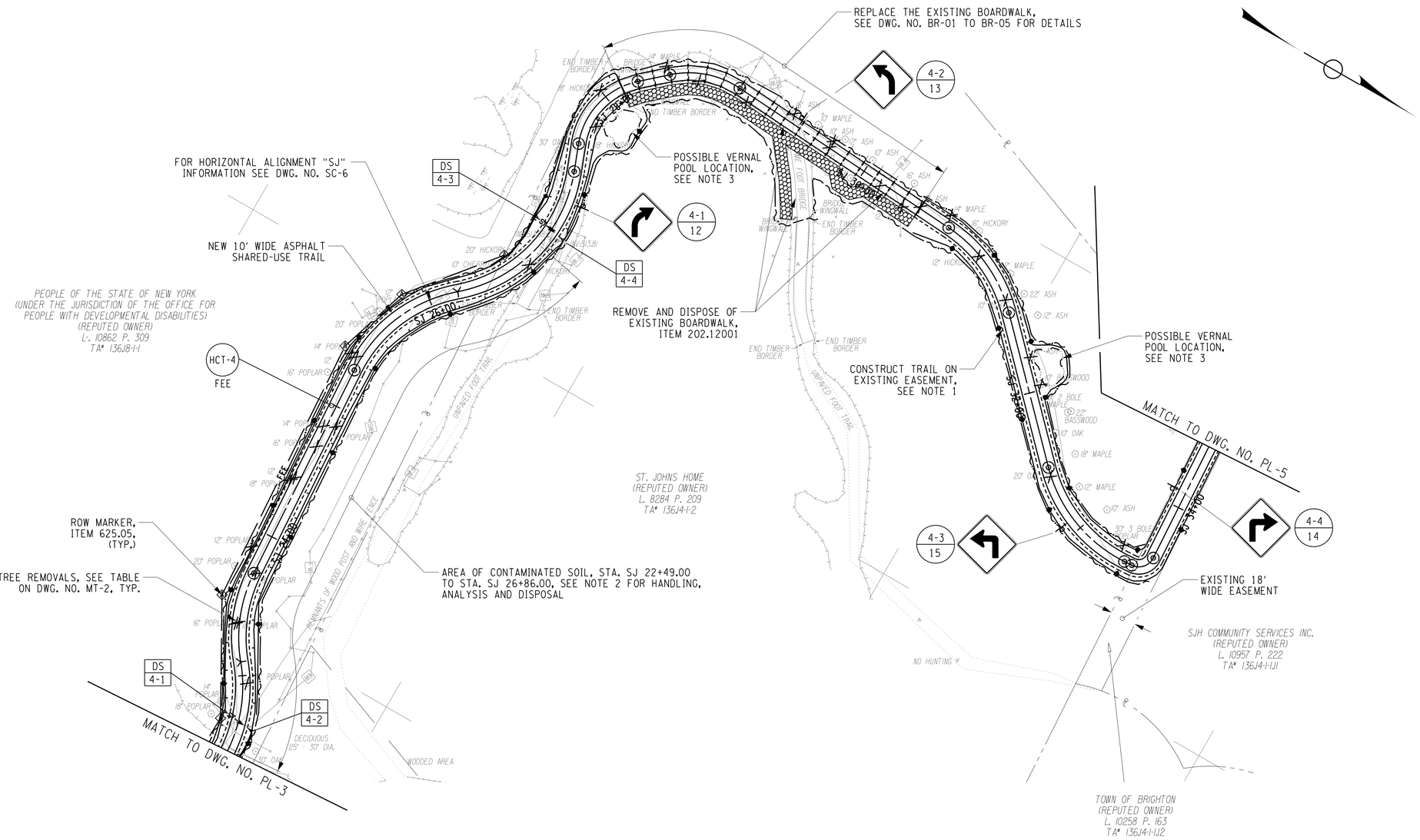

NOTES

1. THE TRAIL WHICH IS LOCATED ON THE ST. JOHNS HOME PROPERTY WILL BE CONSTRUCTED ON A PARCEL CONSERVATION EASEMENT THAT WAS PREVIOUSLY GRANTED TO THE TOWN OF BRIGHTON.

2. ALL SOILS EXCAVATED WITHIN THE LIMITS OF CONTAMINATED SOILS SHALL BE SEGREGATED AND STORED, LABORATORY ANALYSIS SHALL BE PERFORMED AND THE SOILS SHALL BE DISPOSED OF AS CONTAMINATED NON-HAZARDOUS WASTE SOIL. THE CONTRACTOR SHALL DEVELOP A CONTAMINATED MATERIAL HANDLING PLAN (CMHP) AS DESCRIBED IN THE SPECIFICATIONS. IF MATERIAL IS DETERMINED TO BE HAZARDOUS THE CONTRACTOR SHALL CEASE WORK AND NOTIFY THE EIC. WORK ASSOCIATED WITH THE CONTAMINATED SOIL IS INCLUDED IN THE FOLLOWING ITEMS:

ITEM 205.0201	SEGREGATION AND STORAGE OF CONTAMINATED MATERIAL
ITEM 205.0402	LABORATORY ANALYSIS FOR HAZARDOUS WASTE RCRA TOXICITY CHARACTERISTICS
ITEM 205.0403	LABORATORY ANALYSIS FOR IGNITABILITY
ITEM 205.0404	LABORATORY ANALYSIS FOR PH
ITEM 205.050201	DISPOSAL OF CONTAMINATED NON-HAZARDOUS WASTE SOIL

3. VERNAL POOL / POND CONSTRUCTION:

   CONSTRUCT IRREGULAR SHAPED DEPRESSIONS TO A DEPTH OF 14" TO 18", APPROXIMATELY 16' X 22' IN DIMENSION WITH A BANK SLOPE OF 4:1, ITEM 203.02, UNCLASSIFIED EXCAVATION AND DISPOSAL, ASSUME TWO (2) PONDS, LOCATIONS TO BE APPROVED BY THE E.I.C..

   IF POOLS DO NOT HOLD WATER TO A DEPTH OF 18", LINE THE BOTTOM OF THE POOL / POND WITH A 6" THICK, BENTONITE - SOIL MIXTURE, ITEM 203.01990108.

   DO NOT COVER POOLS WITH HAY MULCH OR GRASS SEED.

   LEAVE SELECT LARGE BOULDERS & SELECT LARGE LOGS WITHIN THE WETLAND AREAS TO CREATE ADDITIONAL HABITAT AS DETERMINED BY THE E.I.C.

4. TO AVOID DAMAGING TREES WITH CONSTRUCTION EQUIPMENT, PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL PRUNE TREES THAT WILL REMAIN, AS REQUIRED UNDER SECTION 201-3.02 OF THE CLEARING AND GRUBBING SPECIFICATIONS. ALL PRUNING TO BE APPROVED BY THE E.I.C.

SIGN LEGEND

- L / T — NEW SIGN LOCATION NUMBER TEXT NUMBER
- L — SIGN REMOVAL
- L / T — RELOCATE TO POSITION SHOWN
- R — TO REMAIN

40 0 40 80 120 160'
SCALE

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO. 0910001
PROJECT MANAGER R. SCHMID
DRAWN BY C. PERKINS
SCALE AS SHOWN
ISSUE DATE 11/2018

STATE OF NEW YORK · KENNETH B. SCHMID · 078212 · LICENSED PROFESSIONAL ENGINEER

FISHER ASSOCIATES
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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
PLAN

DRAWING NO.
PL-4

SHEET 63 OF 110

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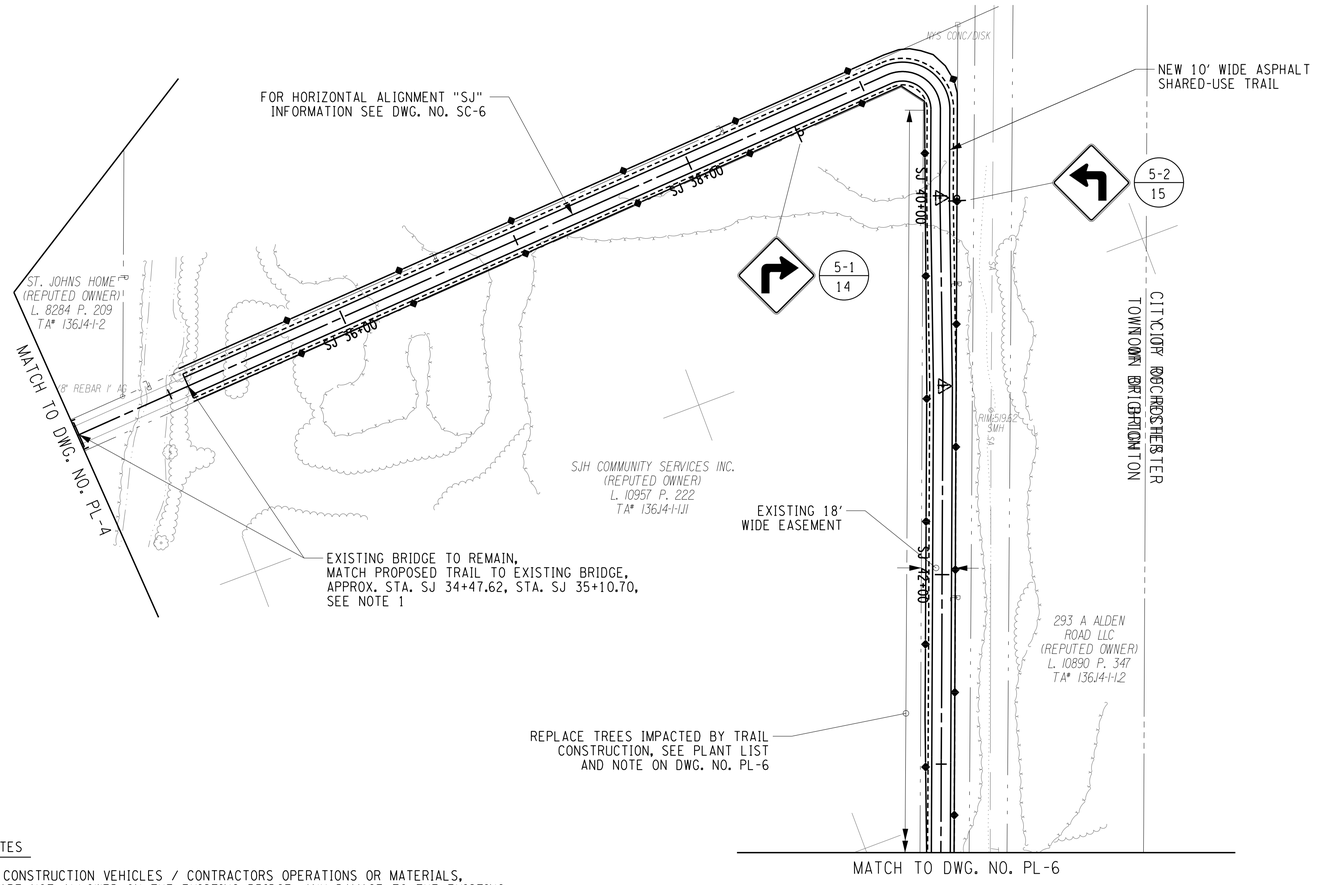
11/16/2018 10:56:57 AM
TimD



NOTES

1. CONSTRUCTION VEHICLES / CONTRACTORS OPERATIONS OR MATERIALS, ARE NOT ALLOWED ON THE EXISTING BRIDGE. ANY DAMAGE TO THE EXISTING BRIDGE, THAT IS CAUSED BY THE CONTRACTORS OPERATIONS, SHALL BE REPAIRED AT THE CONTRACTORS OWN EXPENSE.

SIGN LEGEND

- NEW SIGN LOCATION NUMBER / TEXT NUMBER
- L — SIGN REMOVAL
- L / T — RELOCATE TO POSITION SHOWN
- R — TO REMAIN

40 0 40 80 120 160'
SCALE

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
0910001
PROJECT MANAGER
R. SCHMID
DRAWN BY
C. PERKINS
SCALE
AS SHOWN
ISSUE DATE
11/2018

STATE OF NEW YORK · ERNEST R. SCHMID · 078127 · LICENSED PROFESSIONAL ENGINEER

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
PLAN

DRAWING NO.
PL-5

SHEET 64 OF 110

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11/16/2018
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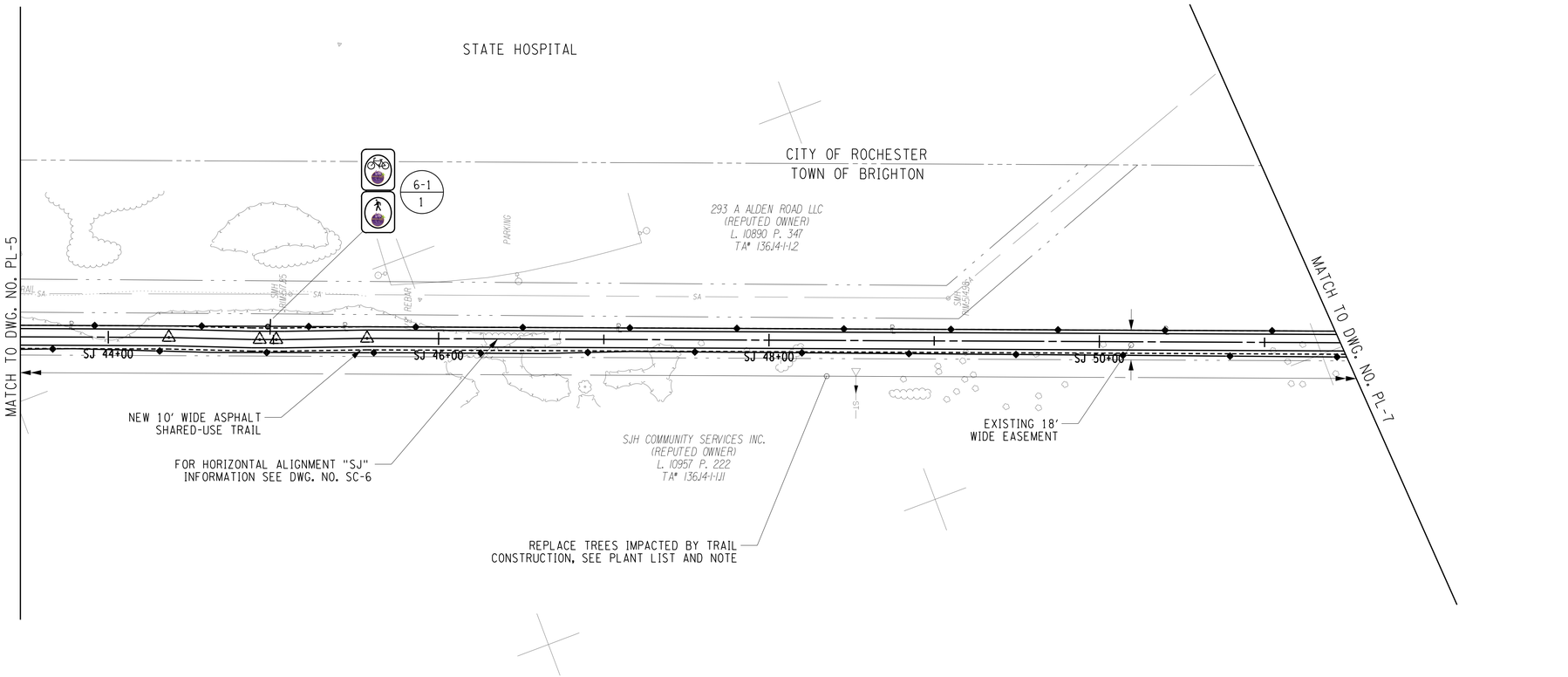

PLANT LIST

ITEM NUMBER	QUANTITY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	NOTES
611.0171	2	GLEDITSIA TRIACANTHOS "IMPERIAL"	IMPERIAL HONEY LOCUST	B&B	2.5" TO 3" CALIPER	
611.0381	2	PICEA ABIES	NORWAY SPRUCE	B&B	7' TO 8' HEIGHT	
611.0381	2	PICEA OMORIKA	SERBIAN SPRUCE	B&B	7' TO 8' HEIGHT	
611.0171	2	ULMUS X ACCOLADE	MORTON ACCOLADE ELM	B&B	2.5" TO 3" CALIPER	

NOTE
A TOTAL QUANTITY OF EIGHT (8) TREES HAS BEEN PROVIDED TO REPLACE TREES THAT MAY REQUIRE REMOVAL FOR TRAIL CONSTRUCTION ALONG THE WESTERN BOUNDARY OF THE BRICKSTONE DEVELOPMENT. TREES TO BE REPLACED AS DIRECTED BY E.I.C.

SIGN LEGEND

- NEW SIGN LOCATION NUMBER TEXT NUMBER
- SIGN REMOVAL
- RELOCATE TO POSITION SHOWN
- TO REMAIN

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SCALE

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
0910001
PROJECT MANAGER
R. SCHMID
DRAWN BY
C. PERKINS
SCALE
AS SHOWN
ISSUE DATE
11/2018

STATE OF NEW YORK * JOSEPH B. SCHMID * 078167 * LICENSED PROFESSIONAL ENGINEER

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
PLAN

DRAWING NO.
PL-6

SHEET 65 OF 110

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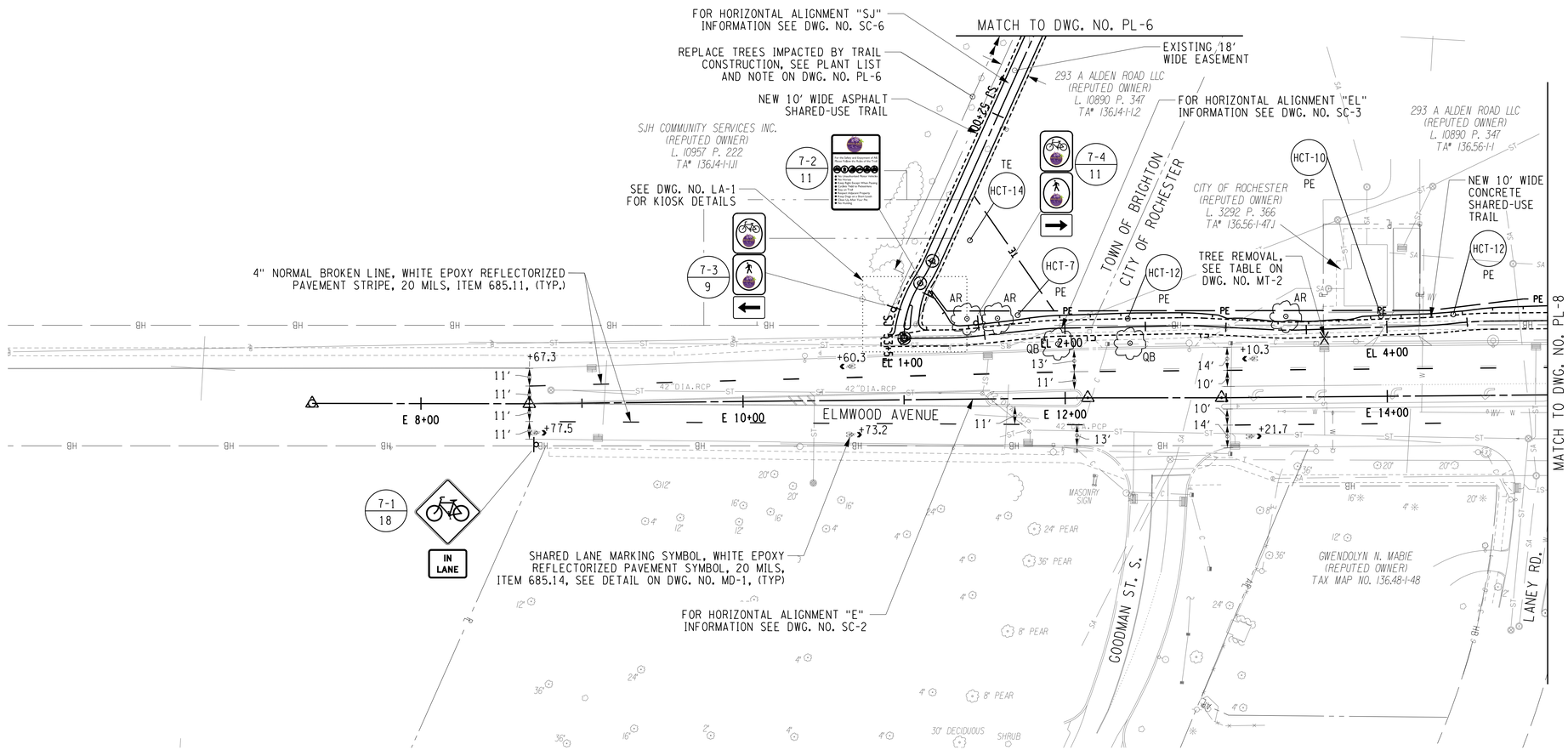
TimD

PLANT LIST							
ITEM NUMBER	SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	NOTES
611.0171	AR	3	ACER RUBRUM 'REDPOINT'	REDPOINT RED MAPLE	B&B	2.5" TO 3" CALIPER	
611.0171	QB	2	QUERCUS BICOLOR	WHITE SWAMP OAK	B&B	2.5" TO 3" CALIPER	



NOTES

1. STATIONS THAT ARE SHOWN ON PLANS FOR ROADWAY PAVEMENT MARKINGS ARE FROM THE ROADWAY CENTERLINE STATIONING.
2. WORK WITHIN HIGHLAND PARK OR ALONG THE ADJACENT ROADWAYS (ELMWOOD AVE., SOUTH AVE., ROBINSON DR.), SHALL BE SCHEDULED TO BE COMPLETED 5 DAYS PRIOR TO, OR SHALL NOT BE STARTED UNTIL 5 DAYS FOLLOWING THE LILAC FESTIVAL. THE DATES FOR THE 2019 LILAC FESTIVAL ARE MAY 10TH THROUGH MAY 19TH. THE DATES FOR THE 2020 LILAC FESTIVAL ARE TO BE DETERMINED.
3. LANE CLOSURES ARE NOT ALLOWED ON WEEKDAYS, DURING PEAK HOURS, BETWEEN THE HOURS OF 7AM TO 9AM, AND 4PM TO 6PM.

SIGN LEGEND

- L / T — NEW SIGN LOCATION NUMBER TEXT NUMBER
- L — SIGN REMOVAL
- L / T — RELOCATE TO POSITION SHOWN
- R — TO REMAIN

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SCALE

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO. 0911001
PROJECT MANAGER R. SCHMID
DRAWN BY C. PERKINS
SCALE AS SHOWN
ISSUE DATE 11/2018

STATE OF NEW YORK ★ DANIEL B. SCHMID ★ 078127 ★ LICENSED PROFESSIONAL ENGINEER

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
PLAN

DRAWING NO.
PL-7

SHEET 66 OF 110

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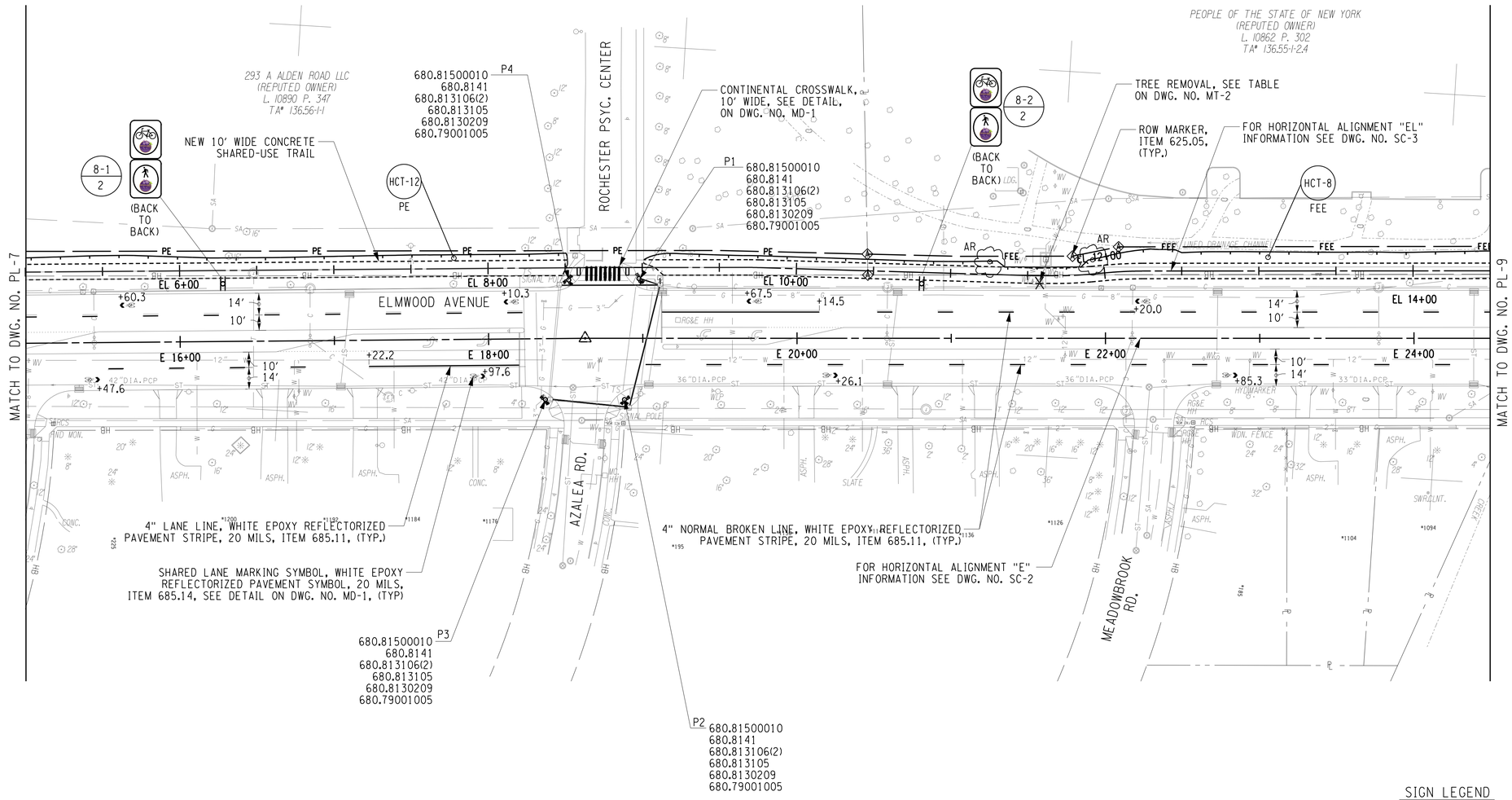
11/16/2018 10:57:02 AM
T.mD

PLANT LIST

ITEM NUMBER	SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	NOTES
611.0171	AR	2	ACER RUBRUM 'REDPOINT'	REDPOINT RED MAPLE	B&B	2.5" TO 3" CALIPER	



SIGN LEGEND

- NEW SIGN, LOCATION NUMBER, TEXT NUMBER
- SIGN REMOVAL
- RELOCATE TO POSITION SHOWN
- TO REMAIN

NOTES

1. STATIONS THAT ARE SHOWN ON PLANS FOR ROADWAY PAVEMENT MARKINGS ARE FROM THE ROADWAY CENTERLINE STATIONING.
2. WORK WITHIN HIGHLAND PARK OR ALONG THE ADJACENT ROADWAYS (ELMWOOD AVE., SOUTH AVE., ROBINSON DR.), SHALL BE SCHEDULED TO BE COMPLETED 5 DAYS PRIOR TO, OR SHALL NOT BE STARTED UNTIL 5 DAYS FOLLOWING THE LILAC FESTIVAL. THE DATES FOR THE 2019 LILAC FESTIVAL ARE MAY 10TH THROUGH MAY 19TH. THE DATES FOR THE 2020 LILAC FESTIVAL ARE TO BE DETERMINED.
3. LANE CLOSURES ARE NOT ALLOWED ON WEEKDAYS, DURING PEAK HOURS, BETWEEN THE HOURS OF 7AM TO 9AM, AND 4PM TO 6PM.

40 0 40 80 120 160'
SCALE

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO. 0911001
PROJECT MANAGER R. SCHMID
DRAWN BY C. PERKINS
SCALE AS SHOWN
ISSUE DATE 11/2018

STATE OF NEW YORK * ERIN B. SCHMID * 078427 * LICENSED PROFESSIONAL ENGINEER

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
PLAN

DRAWING NO.
PL-8

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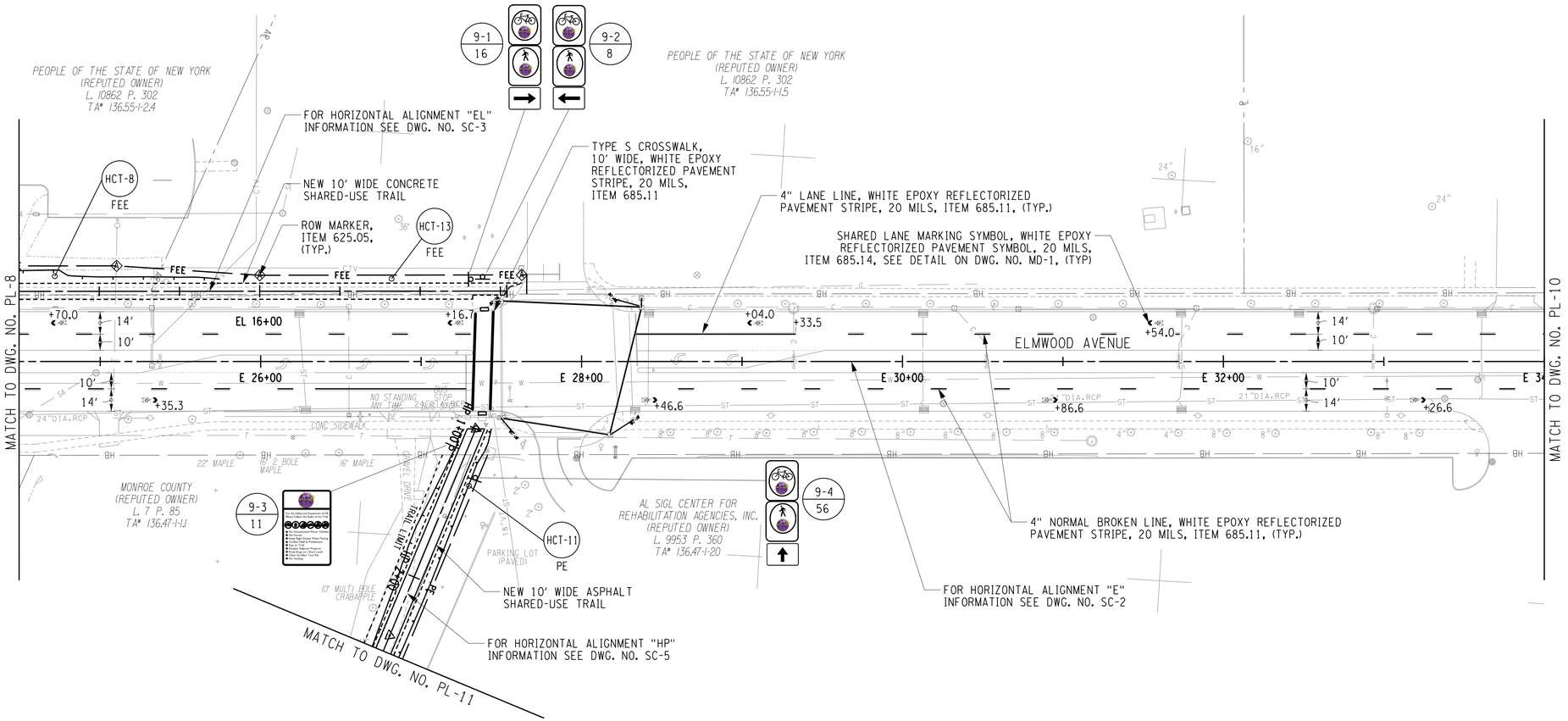

NOTES

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SIGN LEGEND

- L/T — NEW SIGN LOCATION NUMBER TEXT NUMBER
- L — SIGN REMOVAL
- L/T — RELOCATE TO POSITION SHOWN
- R — TO REMAIN

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FA PROJECT NO.
0911001
PROJECT MANAGER
R. SCHMID
DRAWN BY
C. PERKINS
SCALE
AS SHOWN
ISSUE DATE
11/2018

STATE OF NEW YORK * KEVIN B. SCHMID * 078127 * LICENSED PROFESSIONAL ENGINEER

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TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
PLAN

DRAWING NO.
PL-9

SHEET 68 OF 110

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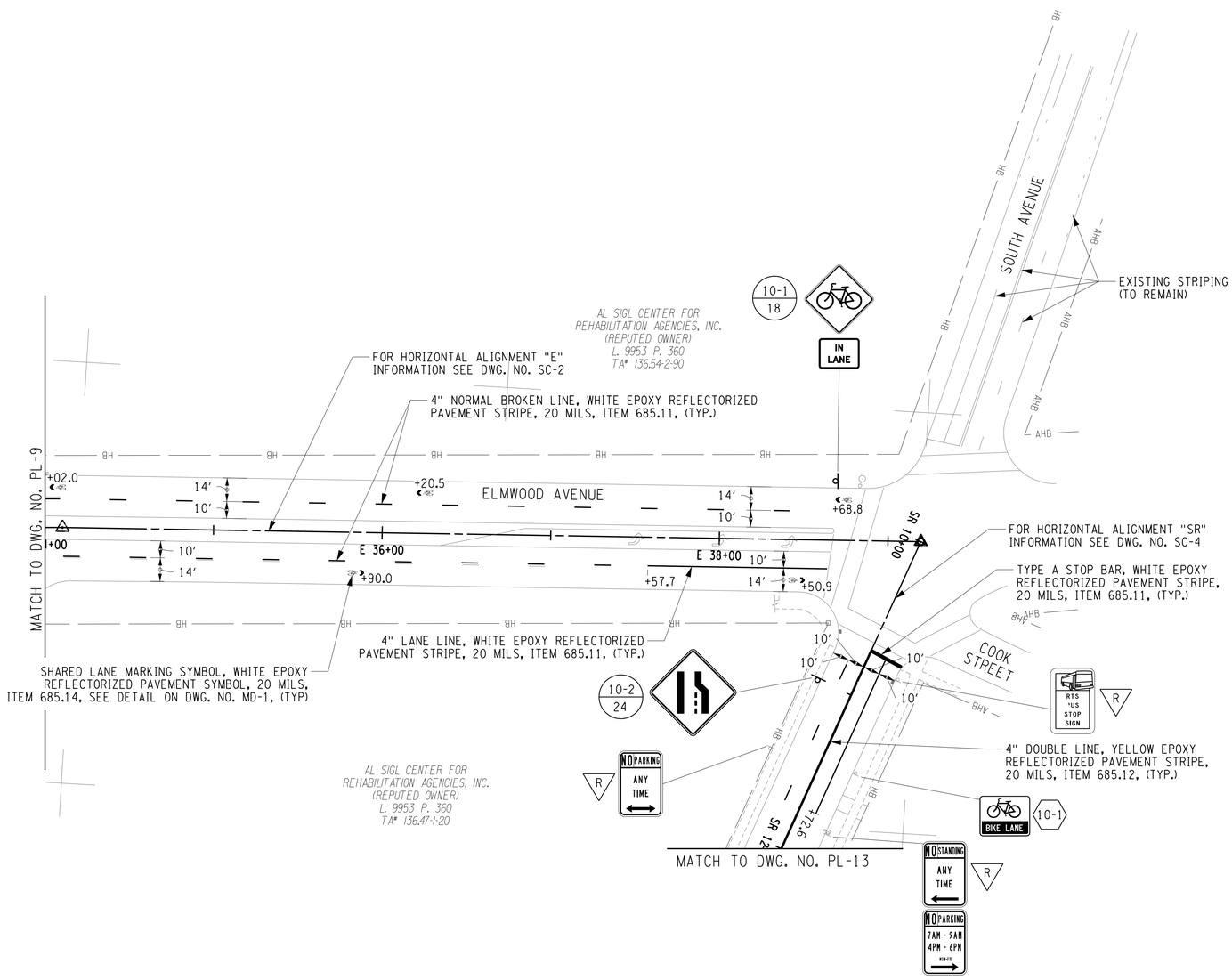

NOTES

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- L — SIGN REMOVAL
- L / T — RELOCATE TO POSITION SHOWN
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FA PROJECT NO. 0911001
PROJECT MANAGER R. SCHMID
DRAWN BY C. PERKINS
SCALE AS SHOWN
ISSUE DATE 11/2018

STATE OF NEW YORK — JOSEPH B. SCHMID — 072872 — LICENSED PROFESSIONAL ENGINEER

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"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
PLAN

DRAWING NO.
PL-10

SHEET 69 OF 110

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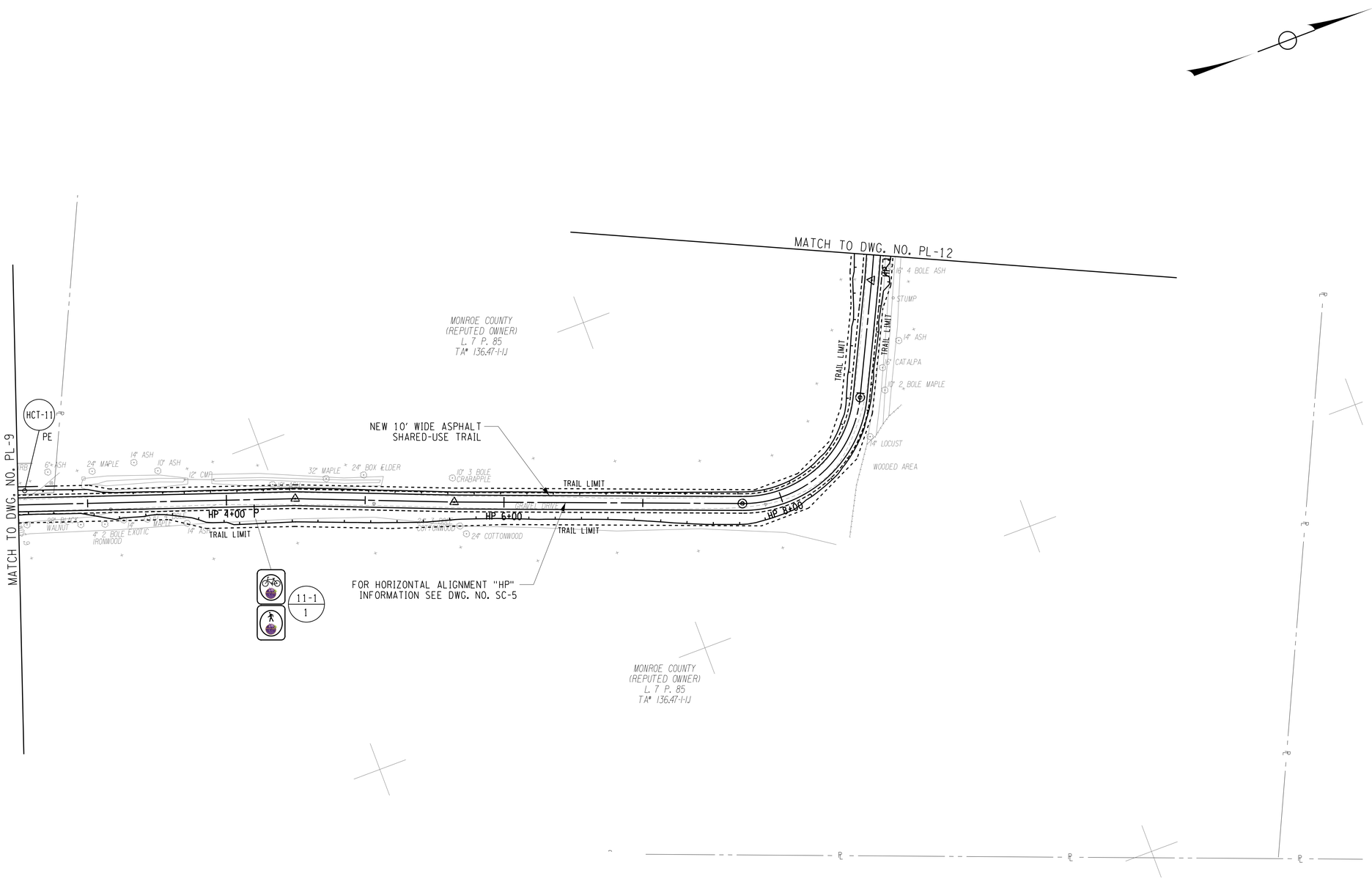

SIGN LEGEND

- L/T — NEW SIGN LOCATION NUMBER / TEXT NUMBER
- L — SIGN REMOVAL
- L/T — RELOCATE TO POSITION SHOWN
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NOTE

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SCALE

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FA PROJECT NO.
0910001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
AS SHOWN

ISSUE DATE
11/2018

STATE OF NEW YORK ★ ★ LICENSED PROFESSIONAL ★ ★ ENGINEER
ERIN B. SCHMID
072827

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
PLAN

DRAWING NO.
PL-11

SHEET 70 OF 110

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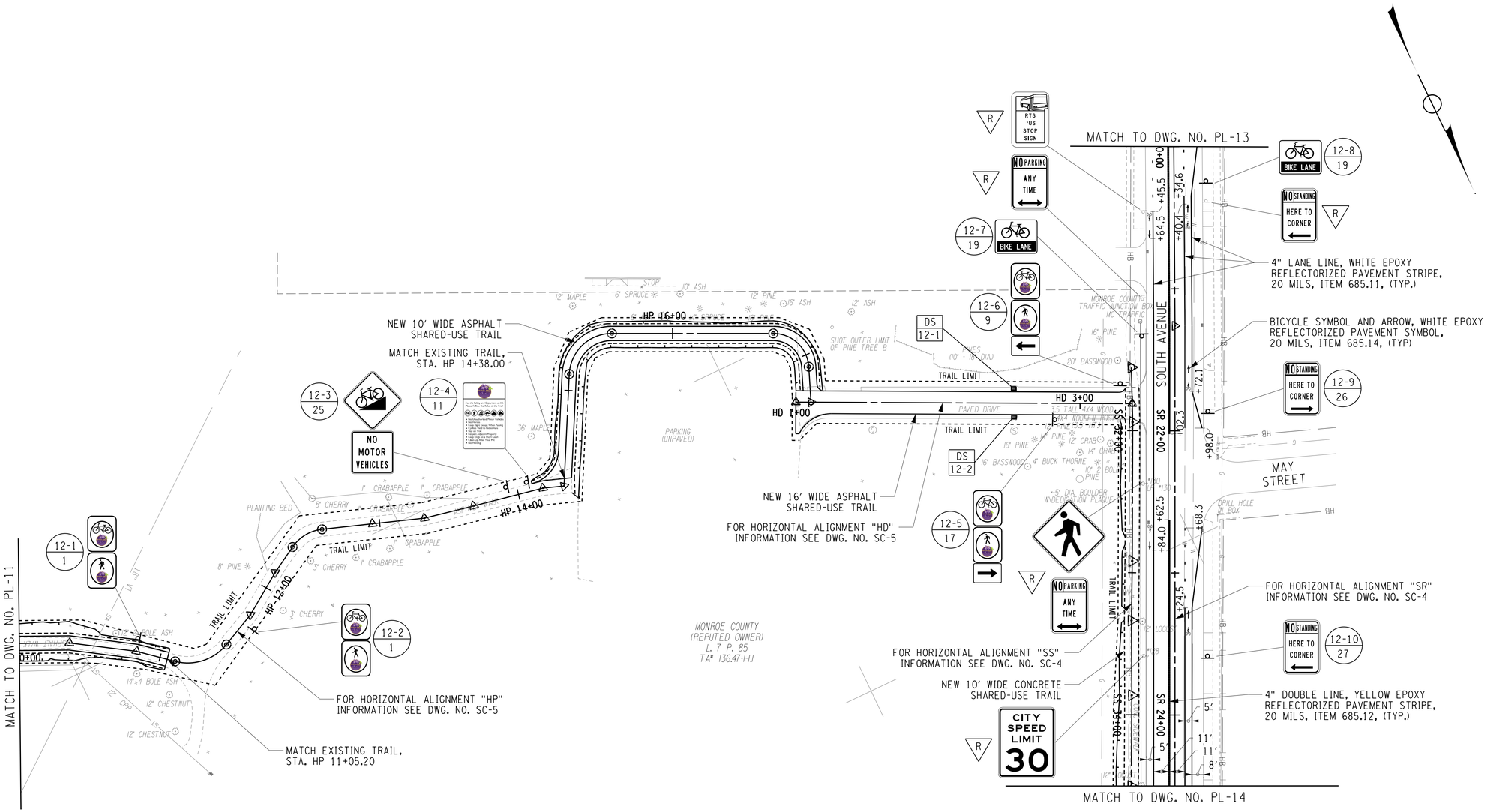

SIGN LEGEND

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SCALE

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PROJECT MANAGER R. SCHMID
DRAWN BY C. PERKINS
SCALE AS SHOWN
ISSUE DATE 11/2018

STATE OF NEW YORK · DANIEL B. SCHMID · 078420 · LICENSED PROFESSIONAL ENGINEER

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
PLAN

DRAWING NO.
PL-12

SHEET 71 OF 110

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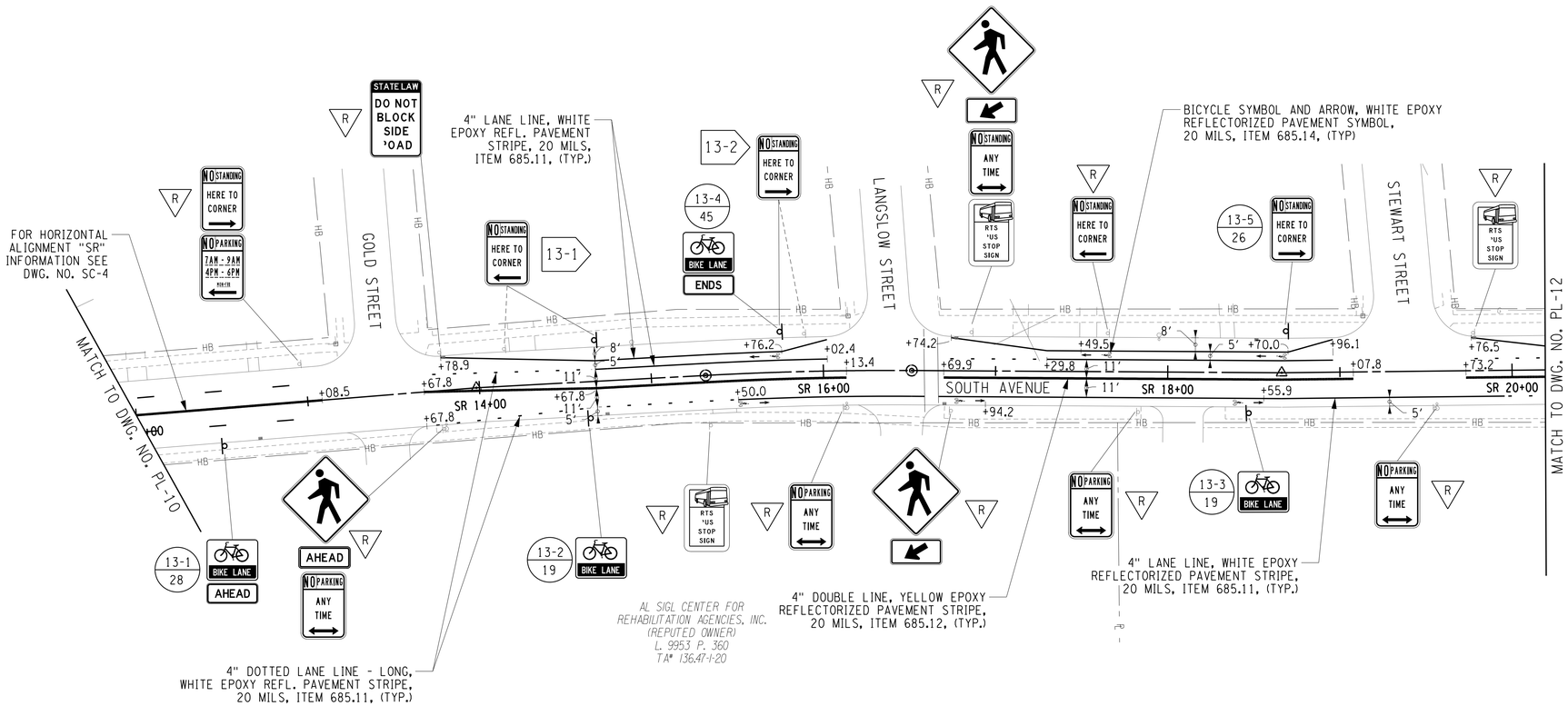

NOTES

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SIGN LEGEND

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- L/T — RELOCATE TO POSITION SHOWN
- R — TO REMAIN

SCALE 40 0 40 80 120 160'

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FA PROJECT NO. 0911001
PROJECT MANAGER R. SCHMID
DRAWN BY C. PERKINS
SCALE AS SHOWN
ISSUE DATE 11/2018

STATE OF NEW YORK KENNETH B. SCHMID 078127 LICENSED PROFESSIONAL ENGINEER

FISHER ASSOCIATES
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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
PLAN

DRAWING NO.
PL-13

SHEET 72 OF 110

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11/16/2018 10:57:10 AM
TimD

FOR HORIZONTAL ALIGNMENT "SR" INFORMATION SEE DWG. NO. SC-4

4" DOUBLE LINE, YELLOW EPOXY REFLECTORIZED PAVEMENT STRIPE, 20 MILS, ITEM 685.12, (TYP.)

TYPE C HATCH LINE, YELLOW EPOXY REFLECTORIZED PAVEMENT STRIPE, 20 MILS, ITEM 685.12, (TYP.)

TYPE S CROSSWALK, 10' WIDE, WHITE EPOXY REFL. PAV'T. STRIPE, 20 MILS, ITEM 685.11

TYPE A STOP BAR, WHITE EPOXY REFLECTORIZED PAVEMENT STRIPE, 20 MILS, ITEM 685.11, (TYP.)

TYPE S CROSSWALK, 10' WIDE, WHITE EPOXY REFL. PAV'T. STRIPE, 20 MILS, ITEM 685.11

MATCH TO DWG. NO. PL-12

MATCH TO DWG. NO. PL-15

WALL STREET

HIGHLAND AVENUE

SOUTH AVENUE

PAVILION STREET

SR 26+00 SR 28+00 SR 30+00 SR 32+00 SR 34+00

SS 36+00 SS 38+00 SS 40+00

TRAIL LIMIT

MICHAEL J. DELUZIO (REPUTED OWNER) TAX MAP NO. 136.31-1-50 114 HIGHLAND AVENUE

JOHN R. MELE (REPUTED OWNER) TAX MAP NO. 136.31-1-49 1275 SOUTH AVENUE

CITY OF ROCHESTER (REPUTED OWNER) TAX MAP NO. 136.31-1-48 1261 SOUTH AVENUE

ST. JOHNS HEALTH CARE CORP. (REPUTED OWNER) TAX MAP NO. 136.31-1-30.2 150 HIGHLAND AVENUE

MONROE COUNTY (REPUTED OWNER) L. 7 P. 85 TA* 136.47-1-1

MONROE COUNTY (REPUTED OWNER) L. 7 P. 85 TA* 136.39-1-20.1

CONTINENTAL CROSSWALK, 10' WIDE, SEE DETAIL ON DWG. NO. MD-1

TRAIL TRANSITIONS TO 8' WIDE AT DRIVEWAY, SEE CONCRETE TRAIL TABLE ON DWG. NO. MT-1 FOR LIMITS

BICYCLE SYMBOL AND ARROW, WHITE EPOXY REFLECTORIZED PAVEMENT SYMBOL, 20 MILS, ITEM 685.14, (TYP)

CUT CURB AND CONSTRUCT NEW RAMP, SEE DETAIL ON DWG. NO. MD-1, AND TABLE ON DWG. NO. MT-1, TYP.

NEW 10' WIDE CONCRETE SHARED-USE TRAIL

4" LANE LINE, WHITE EPOXY REFLECTORIZED PAVEMENT STRIPE, 20 MILS, ITEM 685.11, (TYP.)

FOR HORIZONTAL ALIGNMENT "SS" INFORMATION SEE DWG. NO. SC-4

TURN ARROW, WHITE EPOXY REFLECTORIZED PAVEMENT SYMBOL, 20 MILS, ITEM 685.14, (TYP)

SIGN LEGEND

- NEW SIGN LOCATION NUMBER / TEXT NUMBER
- SIGN REMOVAL
- RELOCATE TO POSITION SHOWN
- TO REMAIN

NOTES

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2. LANE CLOSURES ARE NOT ALLOWED ON WEEKDAYS, DURING PEAK HOURS, BETWEEN THE HOURS OF 7AM TO 9AM, AND 4PM TO 6PM.

40 0 40 80 120 160'
SCALE

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO. 0911001
PROJECT MANAGER R. SCHMID
DRAWN BY C. PERKINS
SCALE AS SHOWN
ISSUE DATE 11/2018

STATE OF NEW YORK · DANIEL B. SCHMID · 078427 · LICENSED PROFESSIONAL ENGINEER

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
PLAN

DRAWING NO.
PL-14

SHEET 73 OF 110

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MATCH TO DWG. NO. PL-14

MATCH TO DWG. NO. PL-16

RESERVOIR AVE.

RESERVOIR AVENUE

SOUTH AVENUE

ROBINSON DRIVE

SR 36+00

SR 38+00

SR 40+00

SR 42+00

SR 44+00

+06.6

+63.9

+76.7

+31.5

+54.7

+27.8

+48.1

+98.0

+96.6

+24.9

R 38+00

R 10+00

DAVID R. OLSON & ZEBRACK OLSON (REPUTED OWNER) TAX MAP NO. 136.31-1-31 245 SOUTH AVENUE

HUGH L. JACKSON (REPUTED OWNER) TAX MAP NO. 136.31-1-25 119 RESERVOIR AVENUE

ST. JOHNS HEALTH CARE CORP. (REPUTED OWNER) TAX MAP NO. 136.31-1-30.2 150 HIGHLAND AVENUE

CITY OF ROCHESTER (REPUTED OWNER) TAX MAP NO. 136.23-2-1

CITY OF ROCHESTER (REPUTED OWNER) TAX MAP NO. 136.32-1-1 450 HIGHLAND AVENUE

4" LANE LINE, WHITE EPOXY REFLECTORIZED PAVEMENT STRIPE, 20 MILS, ITEM 685.11, (TYP.)

CONTINENTAL CROSSWALK, 10' WIDE, SEE DETAIL ON DWG. NO. MD-1

4" DOTTED LANE LINE - LONG, WHITE EPOXY REFL. PAVEMENT STRIPE, 20 MILS, ITEM 685.11, (TYP.)

TYPE A STOP BAR, WHITE EPOXY REFL. PAVEMENT STRIPE, 20 MILS, ITEM 685.11, (TYP.)

CLEAN PAVEMENT SURFACE - LINES, ITEM 635.0103

TYPE S CROSSWALK, 10' WIDE, WHITE EPOXY REFLECTORIZED PAVEMENT STRIPE, 20 MILS, ITEM 685.11, (TYP.)

4" DOTTED LANE LINE - LONG, YELLOW EPOXY REFLECTORIZED PAVEMENT STRIPE, 20 MILS, ITEM 685.12, (TYP.)

BICYCLE SYMBOL AND ARROW, WHITE EPOXY REFLECTORIZED PAVEMENT SYMBOL, 20 MILS, ITEM 685.14, (TYP)

CONTINENTAL CROSSWALK, 10' WIDE, SEE DETAIL ON DWG. NO. MD-1

TYPE C HATCH LINE, YELLOW EPOXY REFLECTORIZED PAVEMENT STRIPE, 20 MILS, ITEM 685.12, (TYP.)

4" DOUBLE LINE, YELLOW EPOXY REFLECTORIZED PAVEMENT STRIPE, 20 MILS, ITEM 685.12, (TYP.)

FOR HORIZONTAL ALIGNMENT "SR" INFORMATION SEE DWG. NO. SC-4

FOR HORIZONTAL ALIGNMENT "R" INFORMATION SEE DWG. NO. SC-3

SIGN LEGEND

- NEW SIGN LOCATION NUMBER / TEXT NUMBER
- SIGN REMOVAL
- RELOCATE TO POSITION SHOWN
- TO REMAIN

NOTES

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2. LANE CLOSURES ARE NOT ALLOWED ON WEEKDAYS, DURING PEAK HOURS, BETWEEN THE HOURS OF 7AM TO 9AM, AND 4PM TO 6PM.

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SCALE

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FA PROJECT NO. 0910001

PROJECT MANAGER R. SCHMID

DRAWN BY C. PERKINS

SCALE AS SHOWN

ISSUE DATE 11/2018

STATE OF NEW YORK ★ ★ ★ CHRISTINE B. SCHMID 078127 LICENSED PROFESSIONAL ENGINEER

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
PLAN

DRAWING NO.
PL-15

SHEET 74 OF 110

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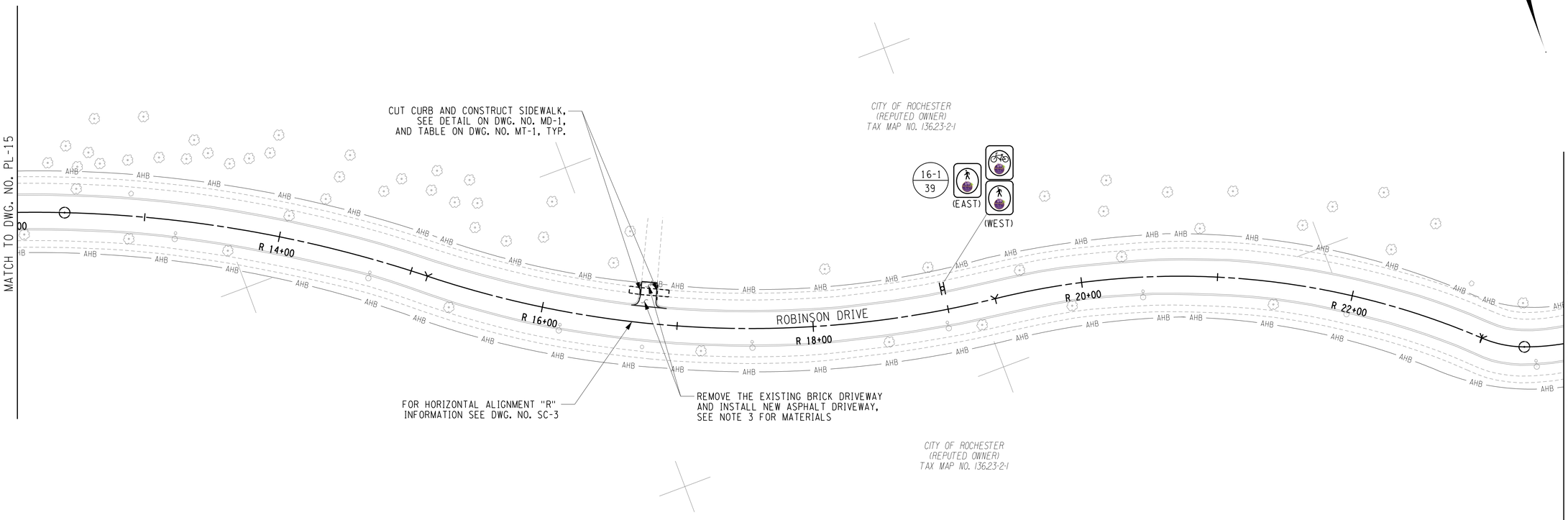

SIGN LEGEND

- NEW SIGN LOCATION NUMBER TEXT NUMBER
- SIGN REMOVAL
- RELOCATE TO POSITION SHOWN
- TO REMAIN

NOTES

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3. NEW DRIVEWAY TO BE 4.5" OF ASPHALT, ITEM 608.020102, 8" OF SUBBASE STONE, ITEM 304.15. ANY SAWCUTTING OF PAVEMENT TO BE INCLUDED IN THE COST BID FOR EXCAVATION, ITEM 203.02.

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SCALE

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FA PROJECT NO. 0911001
PROJECT MANAGER R. SCHMID
DRAWN BY C. PERKINS
SCALE AS SHOWN
ISSUE DATE 11/2018

STATE OF NEW YORK * ERIN B. SCHMID * 078127 * LICENSED PROFESSIONAL ENGINEER

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
PLAN

DRAWING NO.
PL-16

SHEET 75 OF 110

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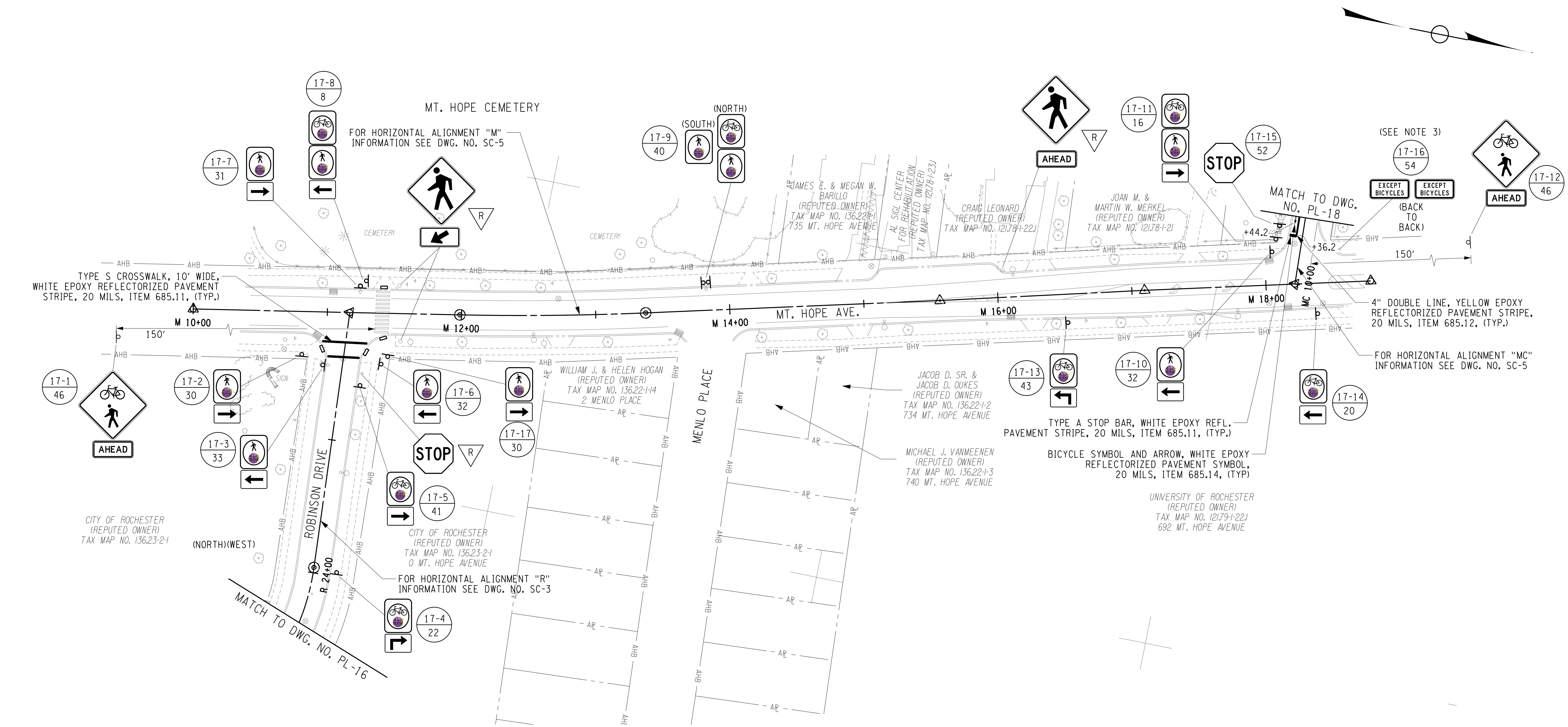

SIGN LEGEND

- (L/T circle) NEW SIGN LOCATION NUMBER TEXT NUMBER
- (L hexagon) SIGN REMOVAL
- (L/T arrow) RELOCATE TO POSITION SHOWN
- (R triangle) TO REMAIN

NOTES

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3. ADD SIGN TO EXISTING POST, BELOW EXISTING "ONE WAY" SIGN.

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SCALE

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FA PROJECT NO. 091001
PROJECT MANAGER R. SCHMID
DRAWN BY C. PERKINS
SCALE AS SHOWN
ISSUE DATE 11/2018

STATE OF NEW YORK ★ ROSEANN B. SCHMID ★ 072687 LICENSED PROFESSIONAL ENGINEER

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
PLAN

DRAWING NO.
PL-17

MATCH TO DWG. NO. PL-17

MCLEAN STREET

MC 12+00 | MC 14+00 | MC 16+00 | MC 18+00

+59.7 | +87.2 | +76.8 | +68.0 | +79.2 | +64.4 | +35.4 | +88.4

14'

5'

W 12+00

W 10+00

CONTINENTAL CROSSWALK, 10' WIDE, SEE DETAIL ON DWG. NO. MD-1

CONTINENTAL CROSSWALK, 10' WIDE, SEE DETAIL ON DWG. NO. MD-1

LOCATION OF DIRECTIONAL SIGN, SEE DETAIL ON DWG. NO. LA-3

BICYCLE SYMBOL AND ARROW, WHITE EPOXY REFLECTORIZED PAVEMENT SYMBOL, 20 MILS, ITEM 685.14, (TYP)

4" DOUBLE LINE, YELLOW EPOXY REFLECTORIZED PAVEMENT STRIPE, 20 MILS, ITEM 685.12, (TYP.)

SHARED LANE MARKING SYMBOL, WHITE EPOXY REFLECTORIZED PAVEMENT SYMBOL, 20 MILS, ITEM 685.14, SEE DETAIL ON DWG. NO. MD-1, (TYP)

JOAN M. & MARTIN W. MERKEL (REPUTED OWNER) TAX MAP NO. 121.78-1-21

UNIVERSITY OF ROCHESTER (REPUTED OWNER) TAX MAP NO. 121.78-1-20.1 2 MC LEAN STREET

UNIVERSITY OF ROCHESTER (REPUTED OWNER) TAX MAP NO. 121.78-1-15.1 8 MC LEAN STREET

CITY OF ROCHESTER (REPUTED OWNER) TAX MAP NO. 121.78-1-25 4 MC LEAN STREET

UNIVERSITY OF ROCHESTER (REPUTED OWNER) TAX MAP NO. 121.78-1-19.1 6 MC LEAN STREET

UNIVERSITY OF ROCHESTER (REPUTED OWNER) TAX MAP NO. 121.78-1-14 50 MC CLEAN STREET

UNIVERSITY OF ROCHESTER (REPUTED OWNER) TAX MAP NO. 121.78-1-13 685 MT. HOPE AVENUE

UNIVERSITY OF ROCHESTER (REPUTED OWNER) TAX MAP NO. 121.78-1-14 266 JOSEPH C. WILSON BLVD.

UNIVERSITY OF ROCHESTER (REPUTED OWNER) TAX MAP NO. 136.29-1-2 600 JOSEPH C. WILSON BLVD.

JOSEPH C. WILSON BLVD.

GENESEE RIVER

PROJECT ENDS STA. W 12+34, 74' RT

(BACK TO BACK)

(BACK TO BACK)

(SEE NOTE 2)

(SEE NOTE 2)

(SEE NOTE 2)

(SEE NOTE 2)

(WEST) (EAST)

FOR HORIZONTAL ALIGNMENT "MC" INFORMATION SEE DWG. NO. SC-5

FOR HORIZONTAL ALIGNMENT "W" INFORMATION SEE DWG. NO. SC-5

EXISTING GENESEE RIVERWAY MILLENIUM TRAIL

18-1	44
18-2	37
18-3	19
18-4	23
18-5	47
18-6	41
18-7	48
18-8	31
18-9	4
18-10	41
18-11	21
18-12	53
18-13	53
18-14	23
18-15	54

EXCEPT BICYCLES

BIKE LANE

IN LANE

DO NOT ENTER

SIGN LEGEND

- NEW SIGN LOCATION NUMBER TEXT NUMBER
- L — SIGN REMOVAL
- L T — RELOCATE TO POSITION SHOWN
- R — TO REMAIN

NOTE

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SCALE

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO. 0911001

PROJECT MANAGER R. SCHMID

DRAWN BY C. PERKINS

SCALE AS SHOWN

ISSUE DATE 11/2018

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
PLAN

DRAWING NO.
PL-18

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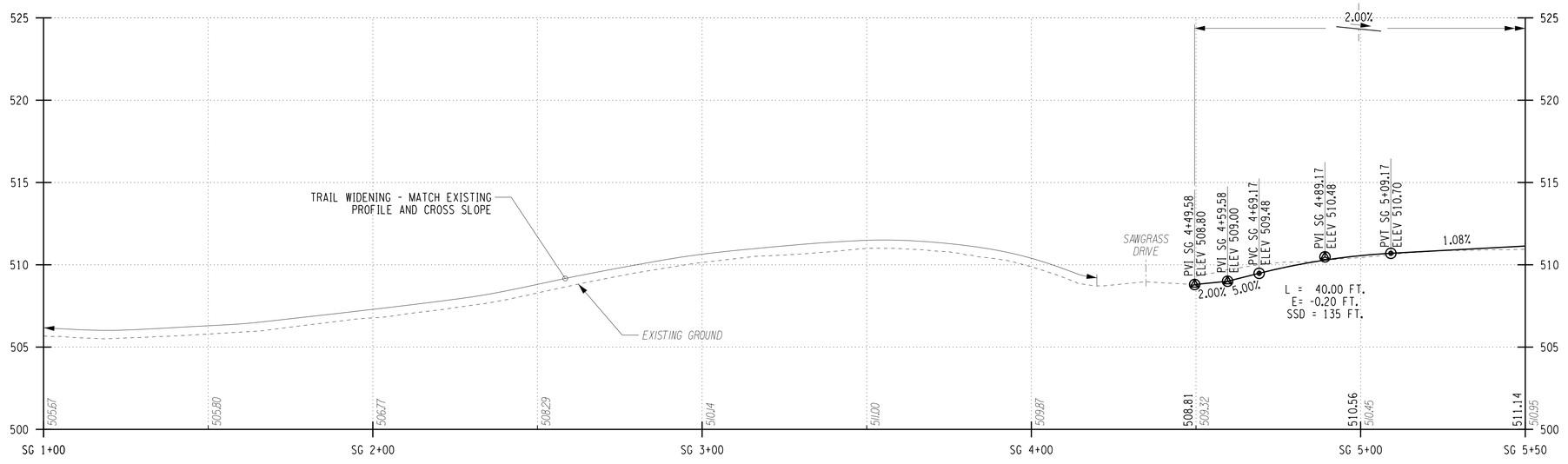
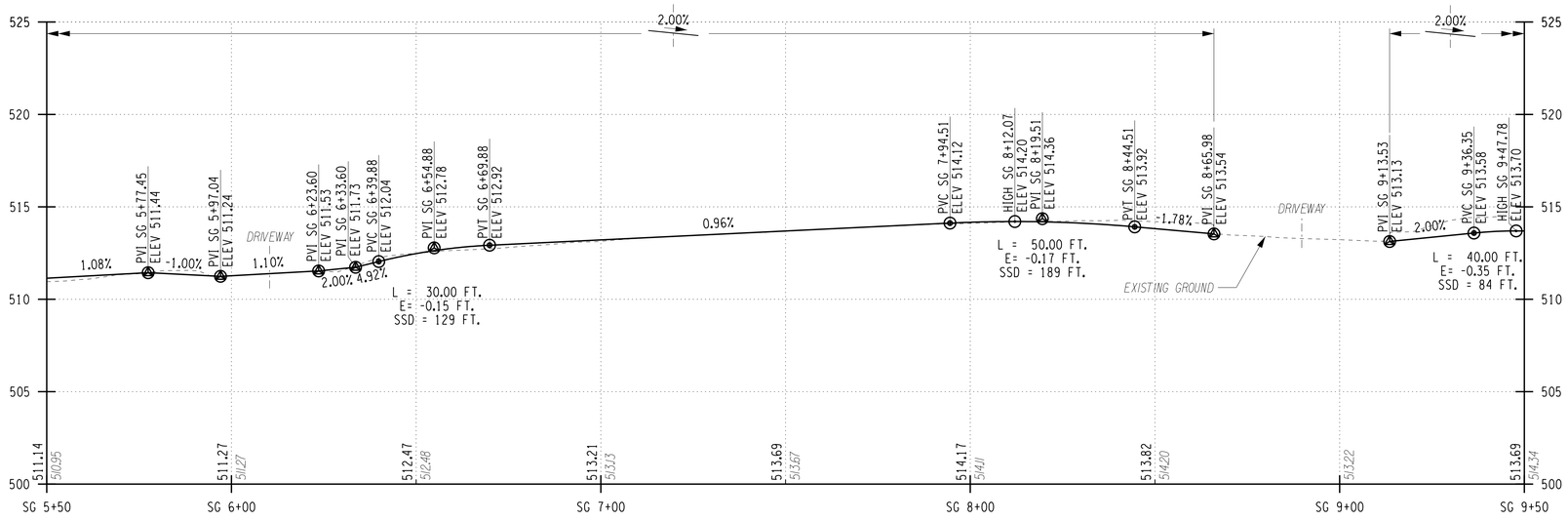


SAWGRASS DRIVE SHARED-USE TRAIL - PROFILE



SAWGRASS DRIVE SHARED-USE TRAIL - PROFILE

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FA PROJECT NO.
0910001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
AS SHOWN

ISSUE DATE
11/2018

STATE OF NEW YORK
JOSEPH B. SCHMID
072887
LICENSED PROFESSIONAL ENGINEER

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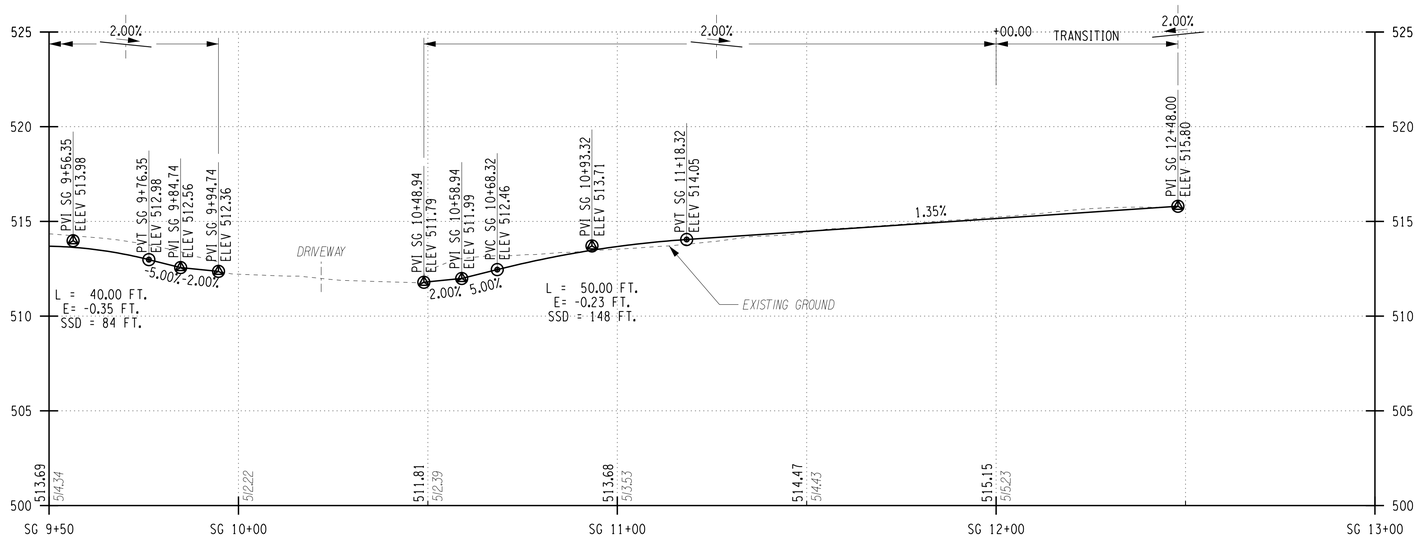
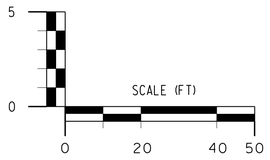
PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
ROADWAY PROFILE

DRAWING NO.
PR-1



SAWGRASS DRIVE SHARED-USE TRAIL - PROFILE



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FA PROJECT NO.
091001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
AS SHOWN

ISSUE DATE
11/2018

STATE OF NEW YORK
JOHN B. SCHMID
072857
LICENSED PROFESSIONAL ENGINEER

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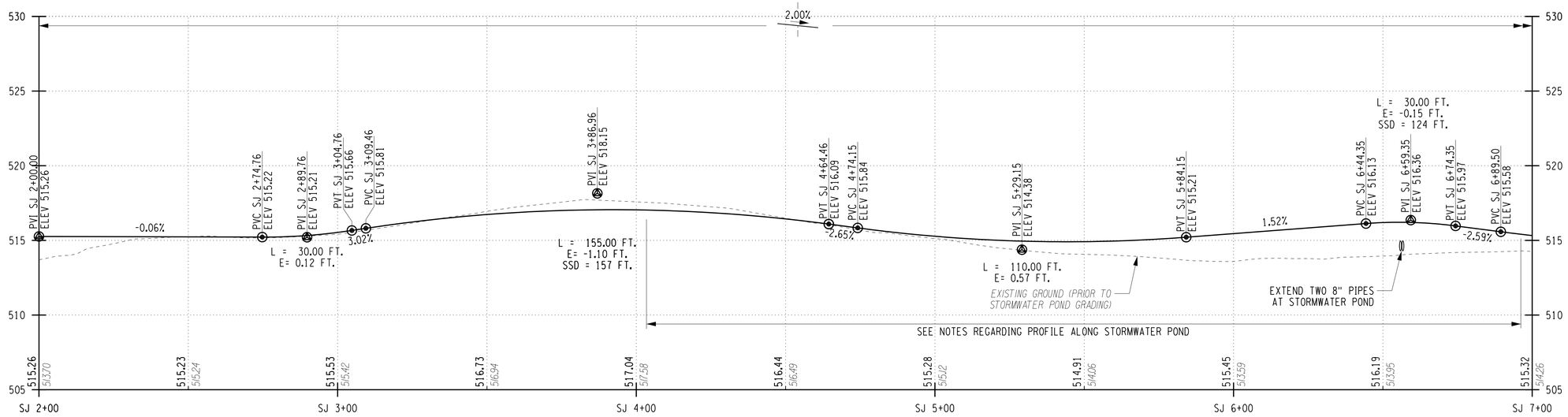
PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
ROADWAY PROFILE

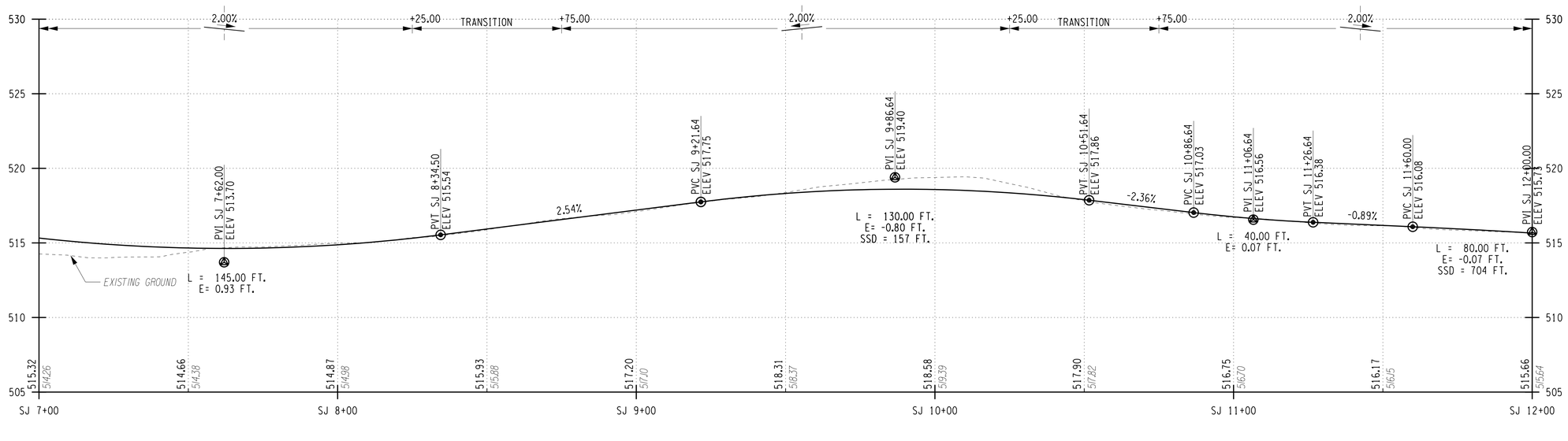
DRAWING NO.
PR-2



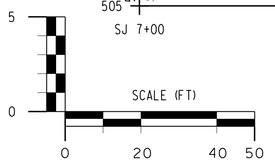
HIGHLAND SHARED-USE TRAIL - PROFILE

NOTES

THE PROPOSED TRAIL PROFILE WAS DEVELOPED USING ELEVATIONS FROM THE NEW STORMWATER POND DESIGN PLANS. CONTRACTOR SHALL FIELD VERIFY THAT THE TRAIL GRADING DOES NOT IMPACT THE TOP OF THE STORM WATER POND BERM AND PLANTINGS. SHOULD CONFLICTS EXIST BETWEEN THE TRAIL GRADING AND THE NEW POND THE CONTRACTOR SHALL NOTIFY TH E.I.C. FOR FURTHER DIRECTION.



HIGHLAND SHARED-USE TRAIL - PROFILE



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FA PROJECT NO.
091001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
AS SHOWN

ISSUE DATE
11/2018

STATE OF NEW YORK ★ JOSEPH B. SCHMID ★ LICENSED PROFESSIONAL ENGINEER 072887

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
ROADWAY PROFILE

DRAWING NO.
PR-3

SHEET 80 OF 110

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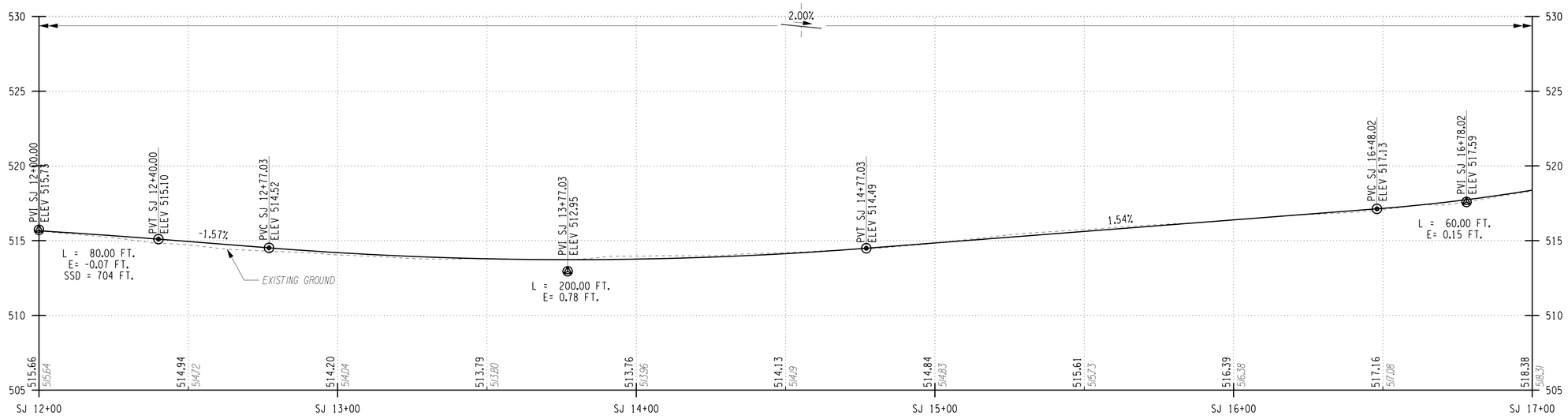
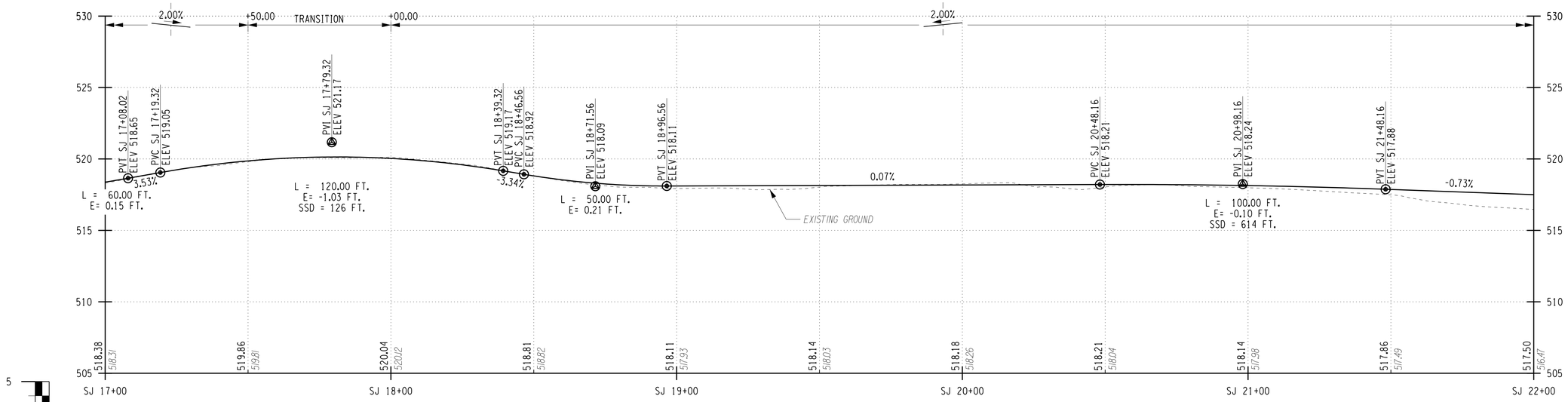


HIGHLAND SHARED-USE TRAIL - PROFILE



HIGHLAND SHARED-USE TRAIL - PROFILE

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If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his/her seal and the notation "altered by" followed by his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO.
091001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
AS SHOWN

ISSUE DATE
11/2018

STATE OF NEW YORK
JOSEPH B. SCHMID
072887
LICENSED PROFESSIONAL ENGINEER

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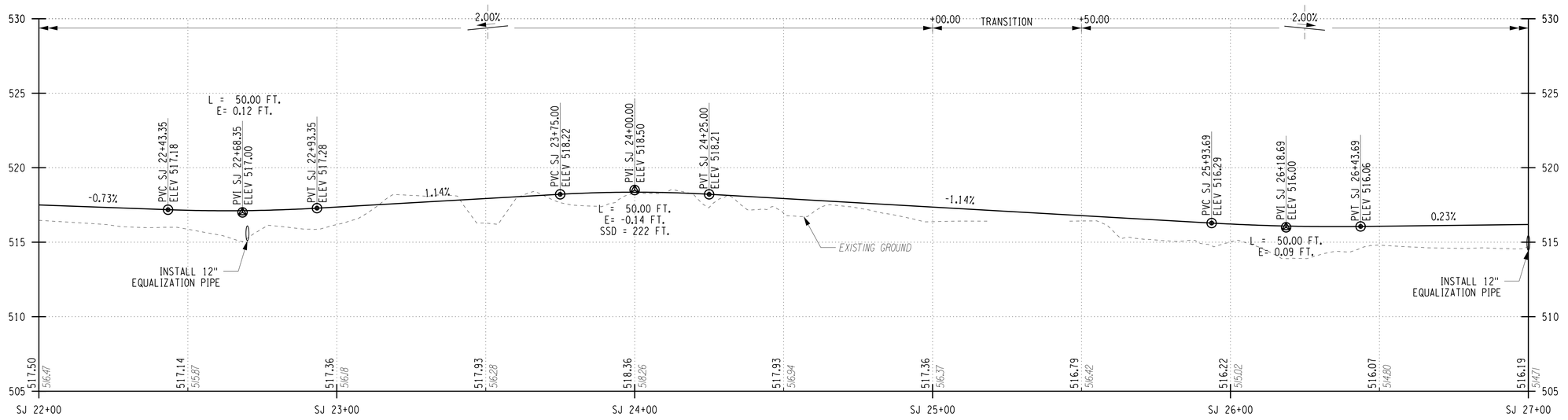
PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

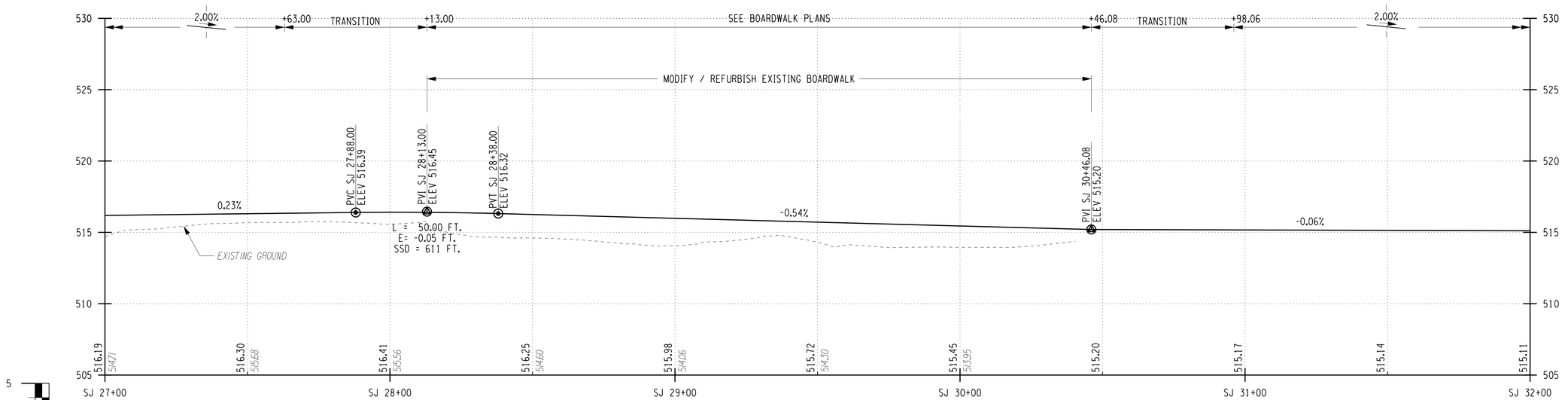
TITLE OF DRAWING
ROADWAY PROFILE

DRAWING NO.
PR-4

SHEET 81 OF 110



HIGHLAND SHARED-USE TRAIL - PROFILE



HIGHLAND SHARED-USE TRAIL - PROFILE

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If an item bearing the seal of an engineer, land surveyor and planner, the altering engineer, land surveyor and planner shall affix to the item his/her seal and his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO.
091001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

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BRIAN B. SCHMID
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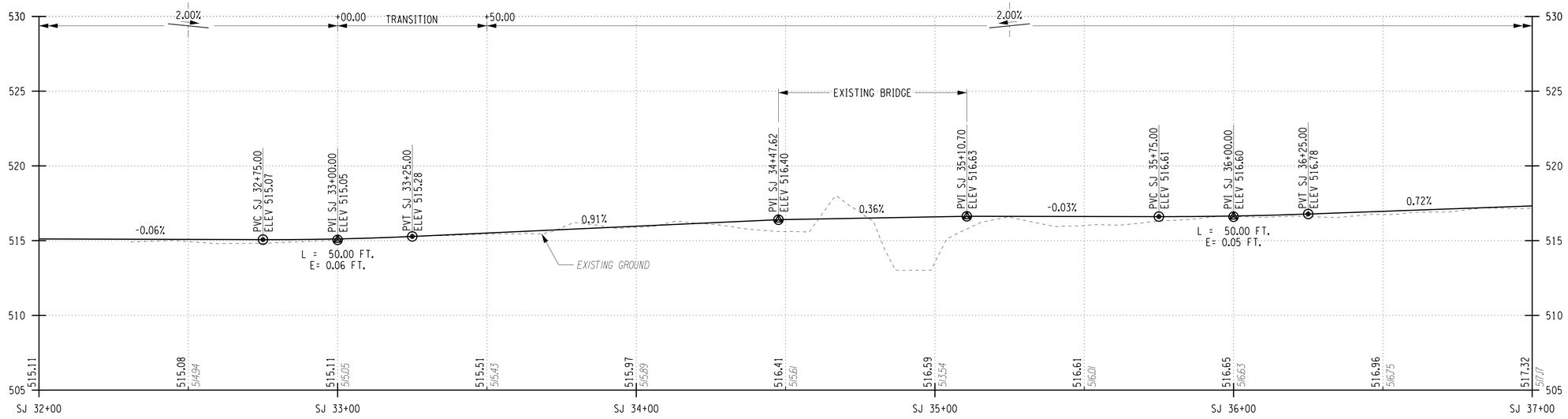
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
ROADWAY PROFILE

DRAWING NO.
PR-5



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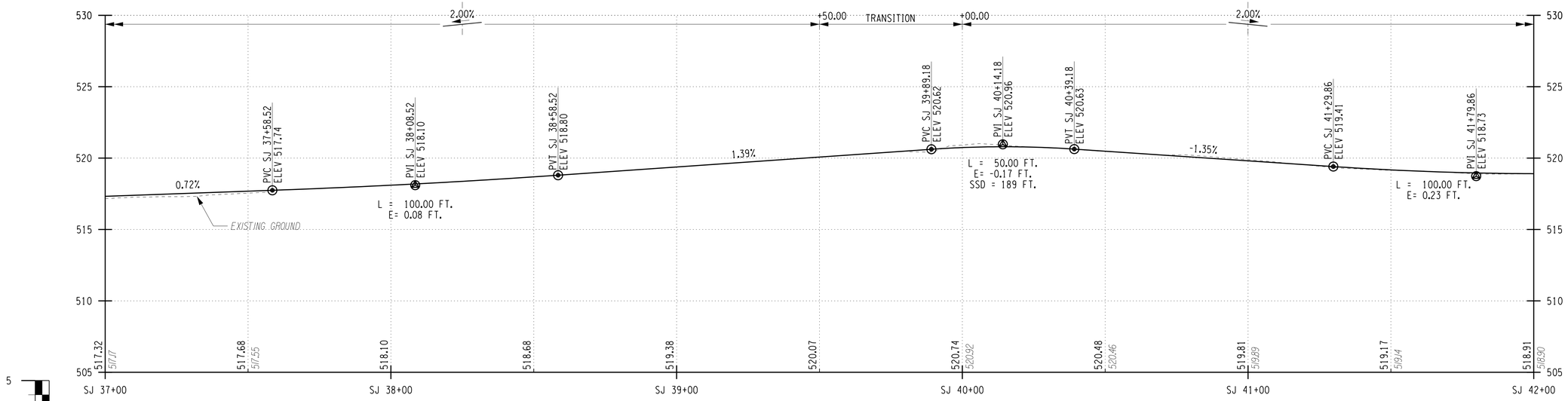

HIGHLAND SHARED-USE TRAIL - PROFILE

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FA PROJECT NO.
091001

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R. SCHMID

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JOHN B. SCHMID
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MONROE COUNTY, NEW YORK

TITLE OF DRAWING
ROADWAY PROFILE

DRAWING NO.
PR-6

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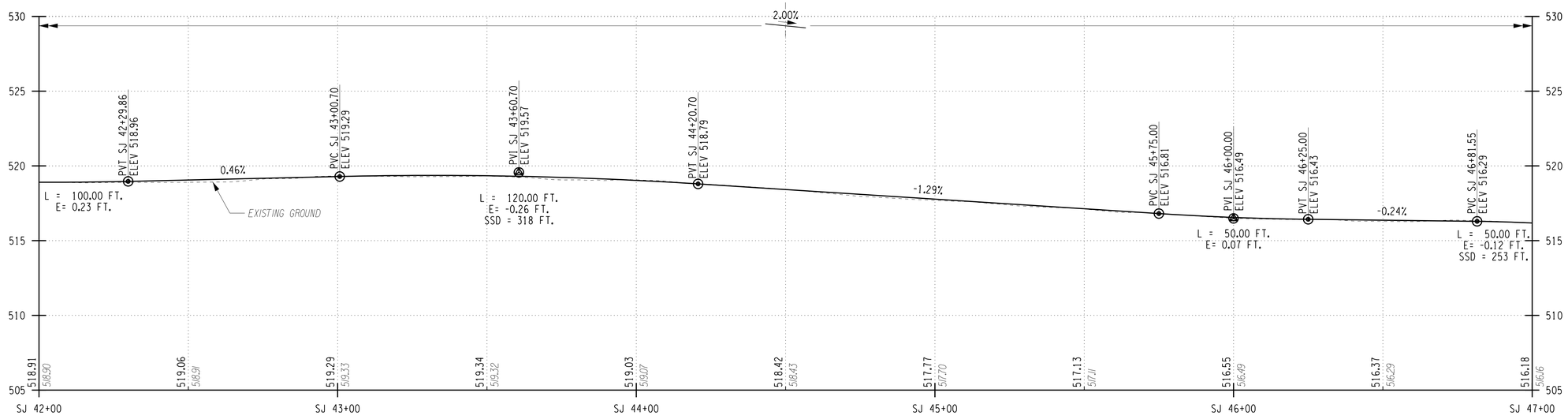

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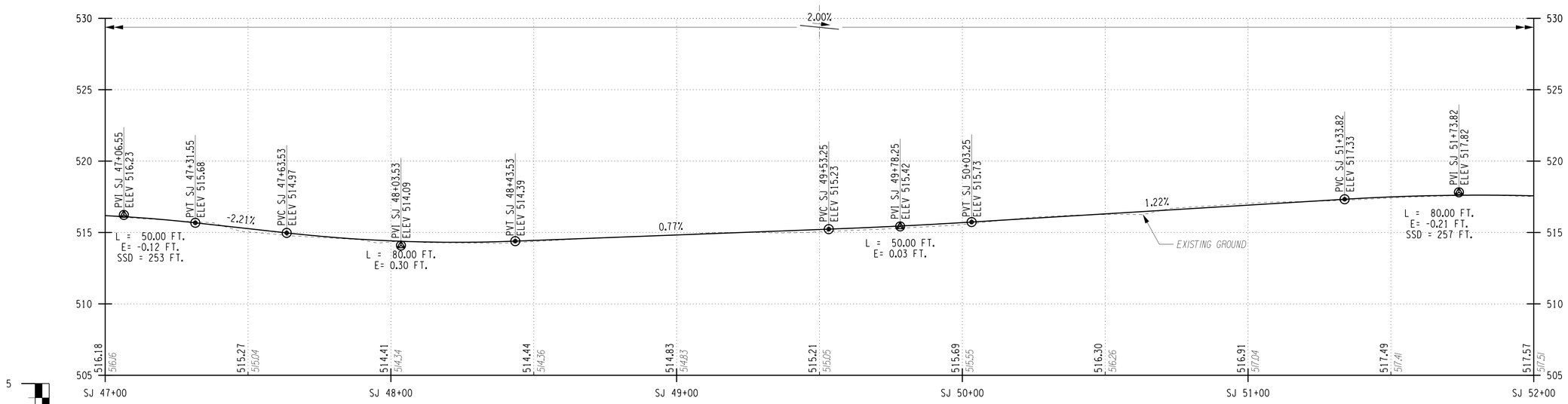

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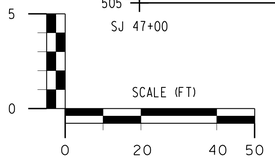

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FA PROJECT NO.
091001
PROJECT MANAGER
R. SCHMID
DRAWN BY
C. PERKINS
SCALE
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ISSUE DATE
11/2018

STATE OF NEW YORK ★ JOSEPH B. SCHMID ★ 072887 ★ LICENSED PROFESSIONAL ENGINEER

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TITLE OF DRAWING
ROADWAY PROFILE

DRAWING NO.
PR-7

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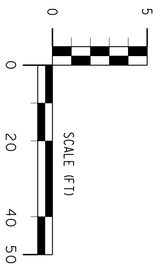
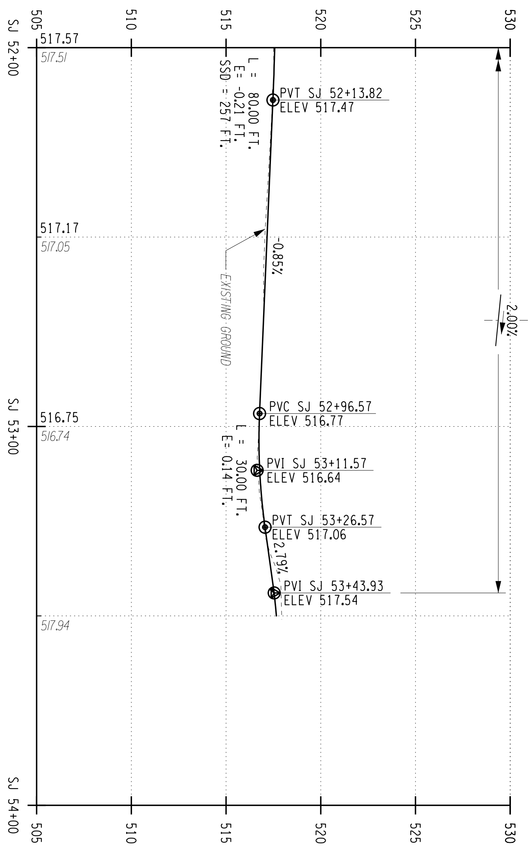


HIGHLAND SHARED-USE TRAIL - PROFILE



PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
ROADWAY PROFILE

DRAWING NO.
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SHEET 85 OF 110

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STATE OF NEW YORK
JOANN B. SCHMID
076687
LICENSED PROFESSIONAL ENGINEER

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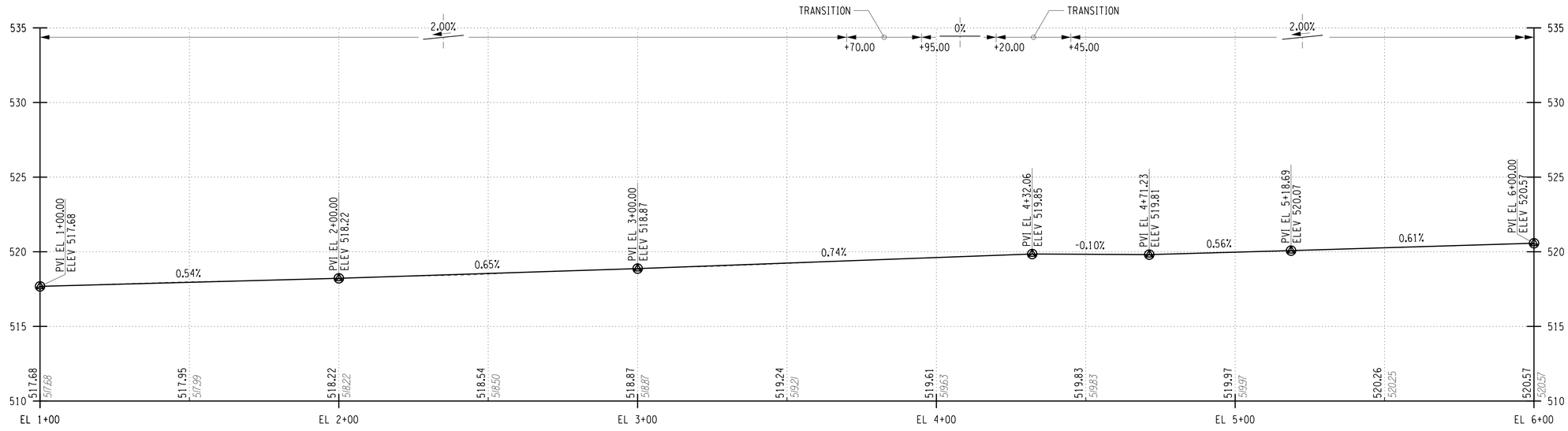
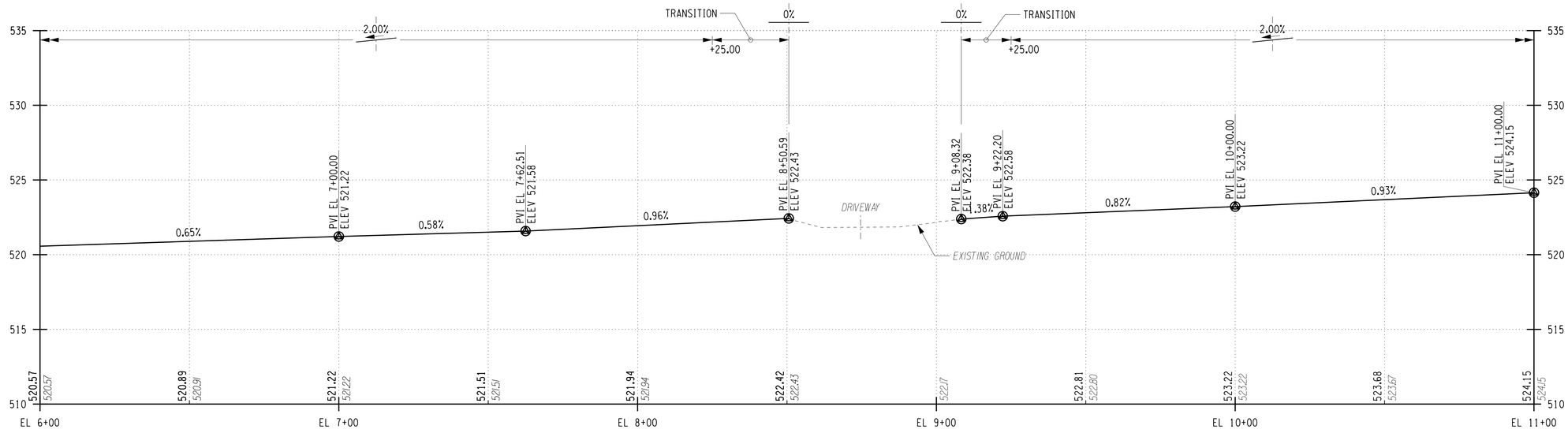


ELMWOOD AVENUE SHARED-USE TRAIL - PROFILE



ELMWOOD AVENUE SHARED-USE TRAIL - PROFILE

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If an item bearing the seal of an engineer or land surveyor and the notation "altered by" followed by the name and seal of the alterer, his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO.
091001

PROJECT MANAGER
R. SCHMID

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C. PERKINS

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STATE OF NEW YORK
JOHN B. SCHMID
072887
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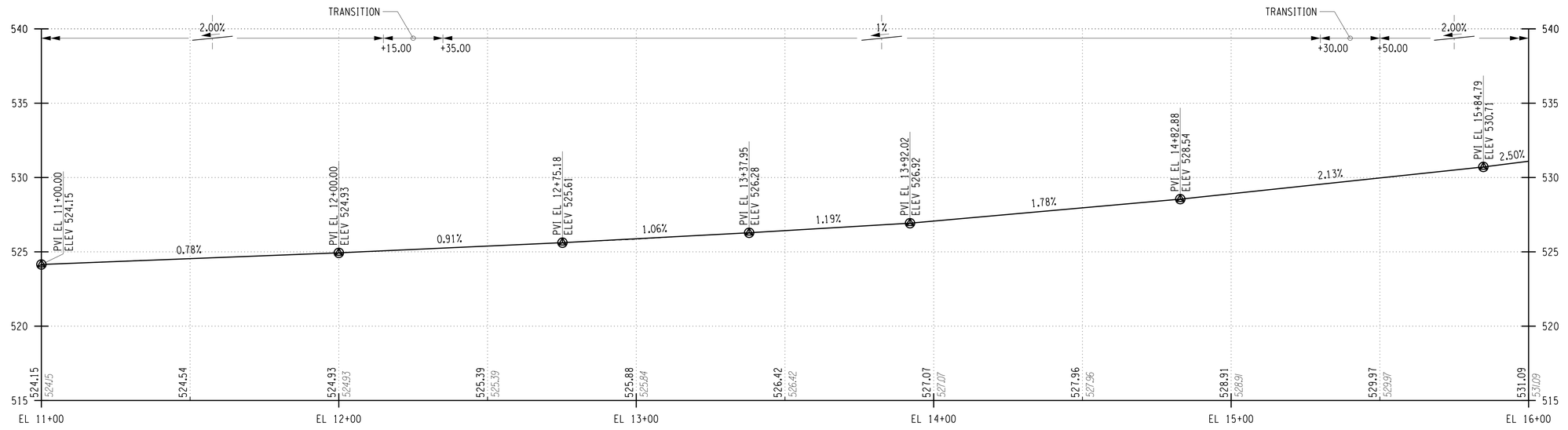
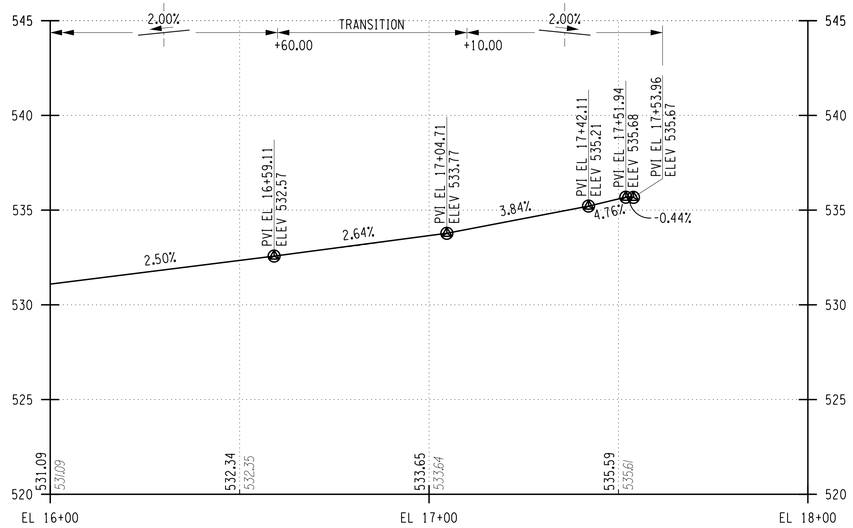
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
ROADWAY PROFILE

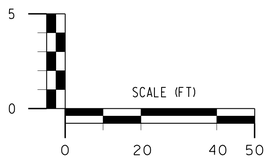
DRAWING NO.
PR-9



ELMWOOD AVENUE SHARED-USE TRAIL - PROFILE



ELMWOOD AVENUE SHARED-USE TRAIL - PROFILE



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If an item bearing the seal of an engineer, architect, landscape architect or land surveyor is altered, the altering engineer, architect, landscape architect or land surveyor shall affix to the item his/her seal and his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO.
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PROJECT MANAGER
R. SCHMID

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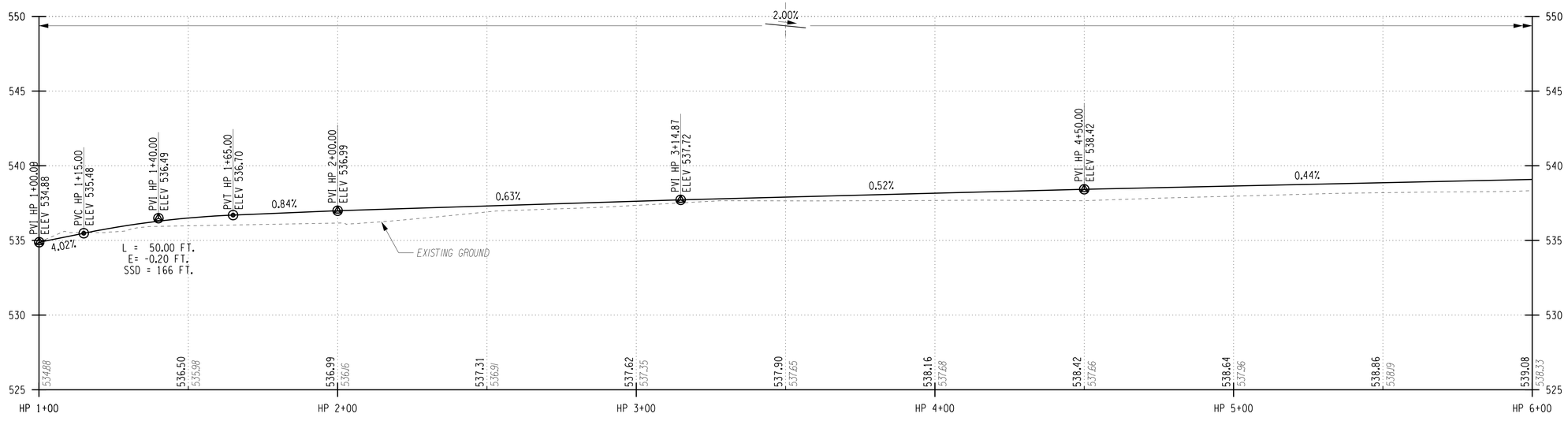
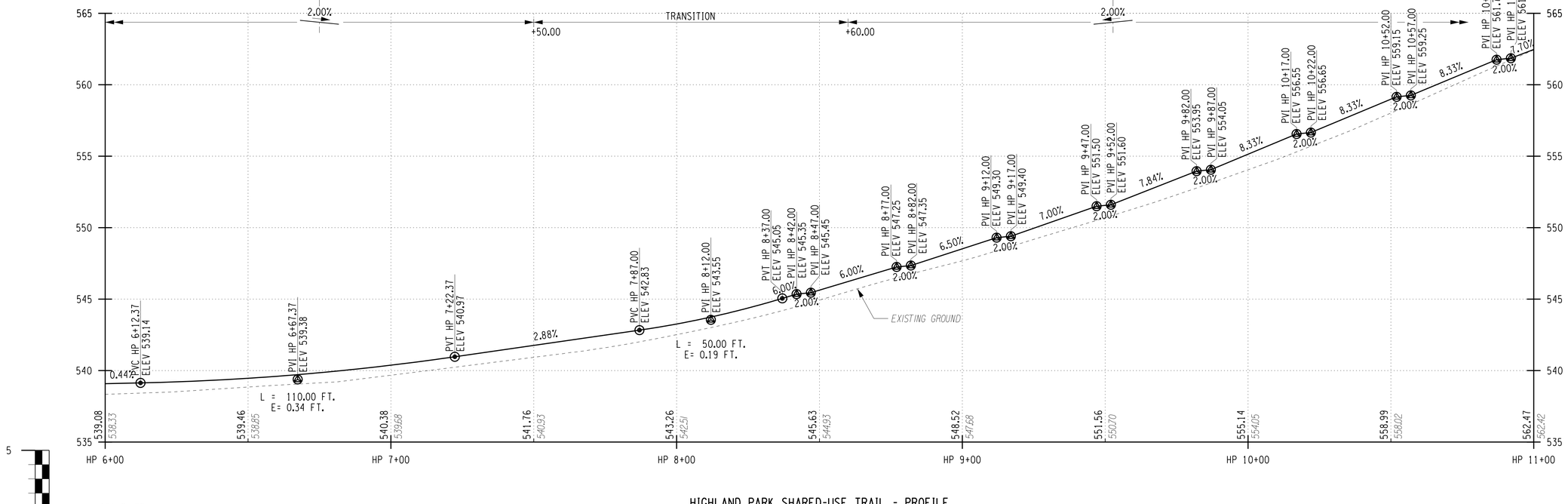
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
ROADWAY PROFILE

DRAWING NO.
PR-10



HIGHLAND PARK SHARED-USE TRAIL - PROFILE



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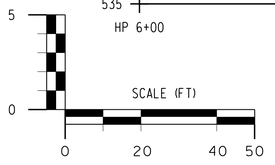

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If an item bearing the seal of an engineer, land surveyor, and bearing the name, his/her seal and the date of such seal, unless he shall cite on the item his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO.
091001

PROJECT MANAGER
R. SCHMID

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C. PERKINS

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TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
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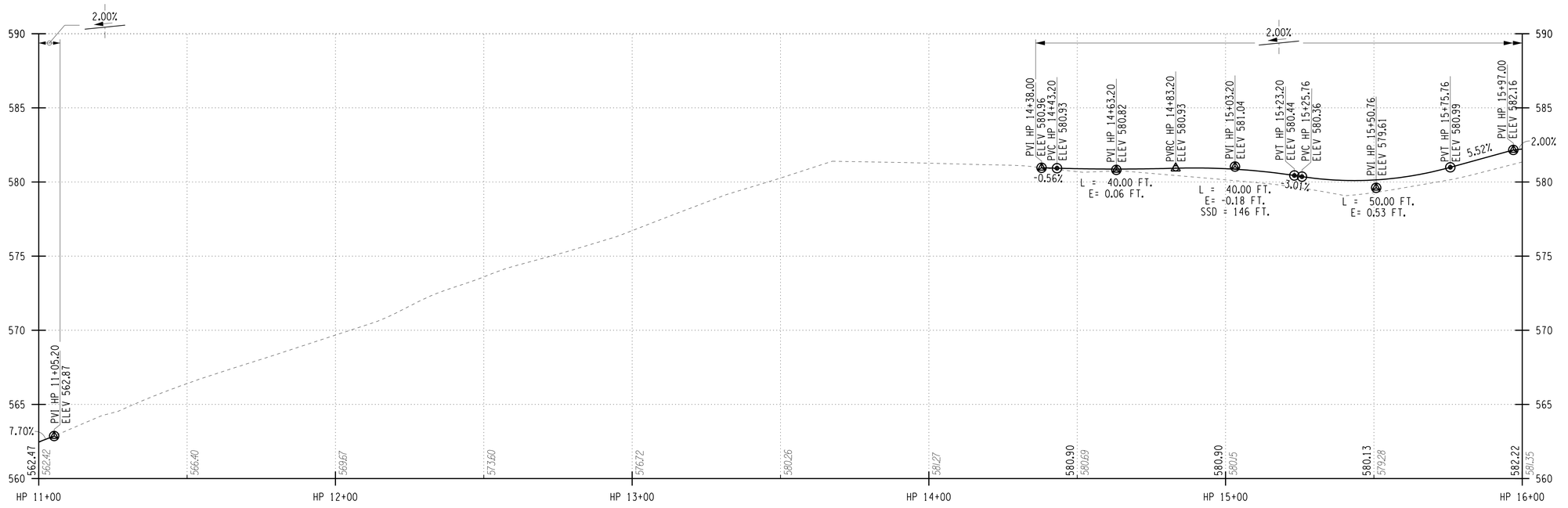
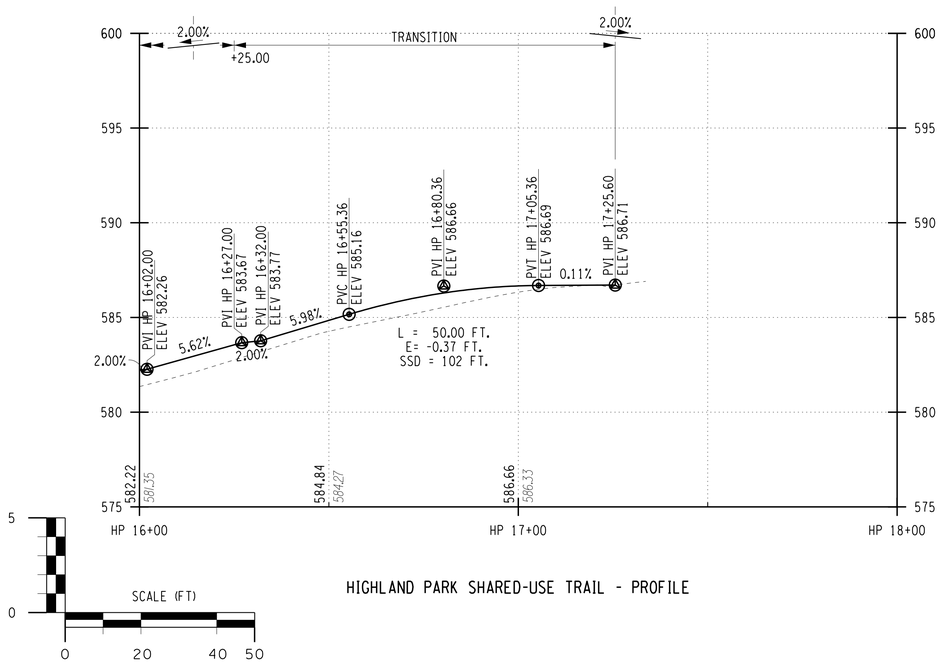


HIGHLAND PARK SHARED-USE TRAIL - PROFILE



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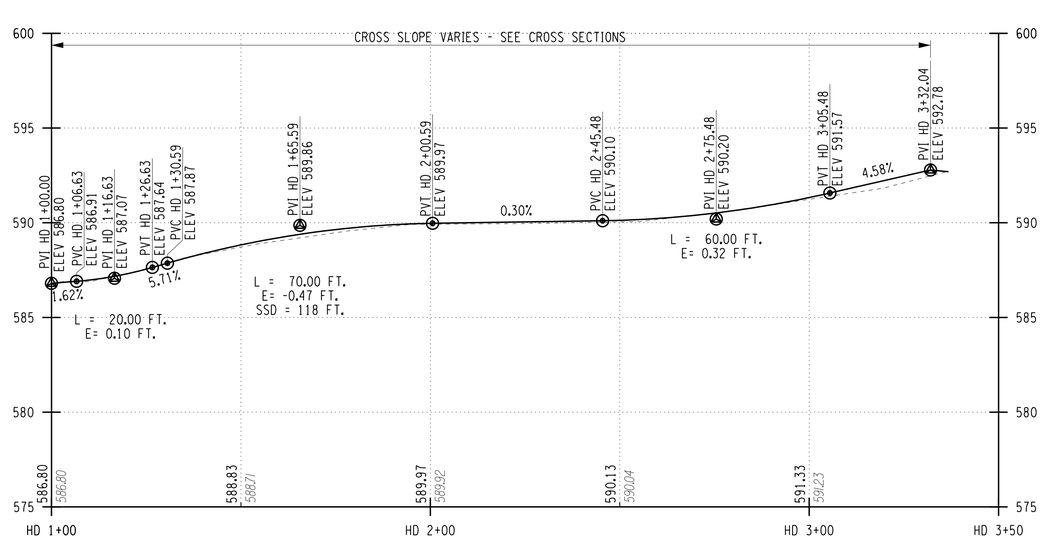

HIGHLAND PARK DRIVEWAY - PROFILE

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FA PROJECT NO.
091001

PROJECT MANAGER
R. SCHMID

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C. PERKINS

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STATE OF NEW YORK
JOSEPH B. SCHMID
072887
LICENSED PROFESSIONAL ENGINEER

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MONROE COUNTY, NEW YORK

TITLE OF DRAWING
ROADWAY PROFILE

DRAWING NO.
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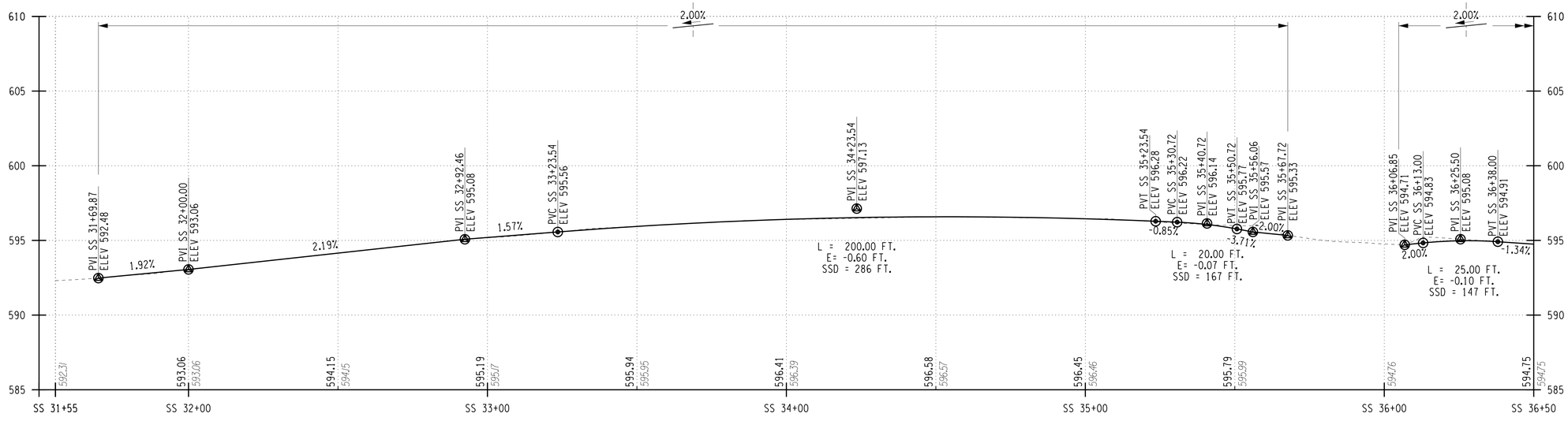
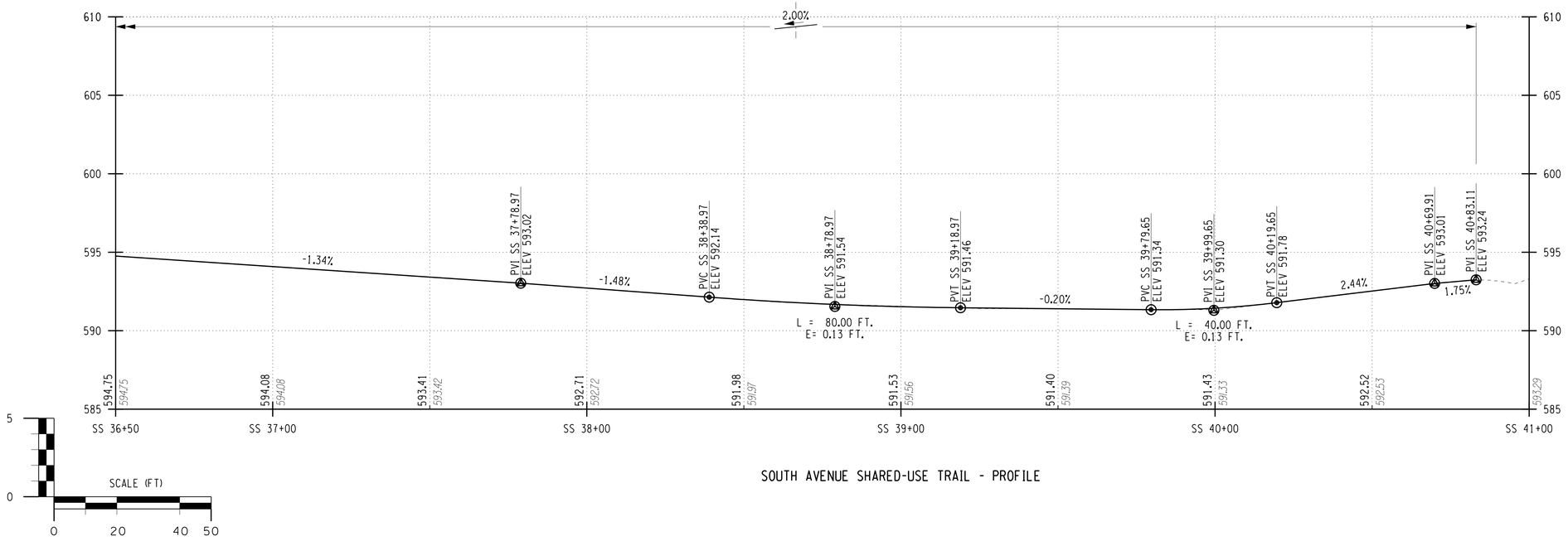


SOUTH AVENUE SHARED-USE TRAIL - PROFILE



SOUTH AVENUE SHARED-USE TRAIL - PROFILE

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FA PROJECT NO.
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PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

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ISSUE DATE
11/2018

STATE OF NEW YORK
KEVIN B. SCHMID
072857
LICENSED PROFESSIONAL ENGINEER

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
ROADWAY PROFILE

DRAWING NO.
PR-13

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1	1-1, 3-1, 6-1, 11-1, 12-1, 12-2 (6)	645.5101	2.6 SF	15.6 SF	12"x15" / 12"x15"	NYM6-2 (MOD.) / NYM6-2 (MOD.)	WP MTD (SEE NOTE 6)
		-	- EA	- EA			
2	8-1, 8-2, 14-2 (3)	645.5101	5.2 SF	15.6 SF	12"x15" 12"x15" / 12"x15" 12"x15" B-B	NYM6-2 (MOD.) / NYM6-2 (MOD.)	GR MTD
		645.81	1 EA	3 EA			
3	1-7, 2-3 (2)	645.5101	5.2 SF	10.4 SF	12"x15" 12"x15" / 12"x15" 12"x15" B-B	NYM6-2 (MOD.) / NYM6-2 (MOD.)	PO MTD
		645.85	4 EA	8 EA			
4	18-9 (1)	645.5101	6.8 SF	6.8 SF	12"x15" 12"x15" / 12"x15" 12"x15" / 12"x9" 12"x9" B-B	NYM6-2 (MOD.) / NYM6-2 (MOD.) / M6-1	WP MTD (SEE NOTE 6)
		-	- EA	- EA			
5	1-3 (1)	645.5101	4.0 SF	4.0 SF	NO MOTOR VEHICLES 24"x24"	R5-3	WP MTD (SEE NOTE 6)
		-	- EA	- EA			
6	1-4, 1-6 (2)	645.5202 (SEE NOTE 5)	8.3 SF	16.6 SF	30"x30" / 24"x12"	W11-15 / W16-7PL	GR MTD
		645.81	2 EA	4 EA			
7	1-2, 1-5 (2)	645.5202	1.9 SF	3.8 SF	YIELD 18"x18"x18"	R1-2	GR MTD
		645.81	1 EA	2 EA			
8	9-2, 14-8, 17-8 (3)	645.5101	3.4 SF	10.2 SF	12"x15" / 12"x15" / 12"x9"	NYM6-2 (MOD.) / NYM6-2 (MOD.) / M6-1	GR MTD
		645.81	1 EA	3 EA			
9	2-1, 7-3, 12-6 (3)	645.5101	3.4 SF	10.2 SF	12"x15" / 12"x15" / 12"x9"	NYM6-2 (MOD.) / NYM6-2 (MOD.) / M6-1	WP MTD (SEE NOTE 6)
		-	- EA	- EA			
10	1-9 (1)	645.5101	3.4 SF	3.4 SF	12"x15" / 12"x15" / 12"x9"	NYM6-2 (MOD.) / NYM6-2 (MOD.) / M6-1	PO MTD
		645.85	3 EA	3 EA			
11	2-2, 7-2 9-3, 12-4 (4)	645.5101	3.6 SF	14.4 SF	18.5" x 28"	SPECIAL	WP MTD (SEE NOTE 6)
		-	- EA	- EA			
12	4-1 (1)	645.5101	2.3 SF	2.3 SF	18"x18"	W1-2R	WP MTD (SEE NOTE 6)
		-	- EA	- EA			
13	4-2 (1)	645.5101	2.3 SF	2.3 SF	18"x18"	W1-2L	WP MTD (SEE NOTE 6)
		-	- EA	- EA			
14	4-4, 5-1 (2)	645.5101	2.3 SF	4.6 SF	18"x18"	W1-1R	WP MTD (SEE NOTE 6)
		-	- EA	- EA			

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO. 0911001
PROJECT MANAGER R. SCHMID
DRAWN BY C. PERKINS
SCALE NONE
ISSUE DATE 11/2018

STATE OF NEW YORK * STEVEN B. SCHMID * 072857 * LICENSED PROFESSIONAL ENGINEER

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PROJECT
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TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
SIGN TEXT DATA

DRAWING NO.
SDS-1

SHEET 91 OF 110

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11/16/2018 10:57:27 AM
TimD

TEXT NUMBER	LOCATION NUMBER	ITEM NUMBER	PAYMENT FACTOR	TOTAL QUANTITY	TEXT WxH (mm)	M.U.T.C.D. NUMBER	MOUNT
15	4-3, 5-2 [2]	645.5101	2.3 SF	4.6 SF	18"x18"	W1-1L	WP MTD (SEE NOTE 6)
		-	- EA	- EA			
16	1-8, 9-1, 14-4 15-5, 17-11 [5]	645.5101	3.4 SF	17.0 SF	12"x15"	NYM6-2 (MOD.)	GR MTD
		645.81	1 EA	5 EA	12"x15" 12"x9"	NYM6-2 (MOD.) M6-1	
17	2-6, 7-4, 12-5 [3]	645.5101	3.4 SF	10.2 SF	12"x15"	NYM6-2 (MOD.)	WP MTD (SEE NOTE 6)
		-	- EA	- EA	12"x15" 12"x9"	NYM6-2 (MOD.) M6-1	
18	7-1, 10-1 [2]	645.5102	9.3 SF	18.6 SF	30"x30"	W11-1	GR MTD
		645.81	2 EA	4 EA	IN LANE 24"x18"	NYW5-32P	
19	12-7, 12-8, 13-2 13-3, 14-1, 14-7 18-3 [7]	645.5102	3.0 SF	21.0 SF	BIKE LANE 24"x18"	R3-17	GR MTD
		645.81	1 EA	7 EA			
20	15-3, 17-14 [2]	645.5101	2.1 SF	4.2 SF	12"x15"	NYM6-2 (MOD.)	GR MTD
		645.81	1 EA	2 EA	12"x9"	M6-1	
21	18-11 [1]	645.5101	2.1 SF	2.1 SF	12"x15"	NYM6-2 (MOD.)	PO MTD
		645.85	2 EA	2 EA	12"x9"	M6-1	

TEXT NUMBER	LOCATION NUMBER	ITEM NUMBER	PAYMENT FACTOR	TOTAL QUANTITY	TEXT WxH (mm)	M.U.T.C.D. NUMBER	MOUNT
22	17-4 [1]	645.5101	2.1 SF	2.1 SF	12"x15" 12"x9"	NYM6-2 (MOD.) M5-1R	GR MTD
		645.81	1 EA	1 EA			
23	18-4, 18-14 [2]	645.5102	2.0 SF	4.0 SF	EXCEPT BICYCLES 24"x12"	R5-10C (MOD)	PO MTD
		645.85	1 EA	2 EA			
24	10-2 [1]	645.5102	9.0 SF	9.0 SF	36"x36"	W4-2	GR MTD
		645.81	2 EA	2 EA			
25	12-3 [1]	645.5101	6.3 SF	6.3 SF	18"x18" NO MOTOR VEHICLES 24"x24"	W7-5 R5-3	WP MTD (SEE NOTE 6)
		-	- EA	- EA			
26	12-9, 13-5 [2]	645.5101	1.5 SF	3.0 SF	NO STANDING HERE TO CORNER 12"x18"	NYP1-5R	GR MTD
		645.81	1 EA	2 EA			
27	12-10 [1]	645.5101	1.5 SF	1.5 SF	NO STANDING HERE TO CORNER 12"x18"	NYP1-5L	GR MTD
		645.81	1 EA	1 EA			
28	13-1 [1]	645.5102	5.0 SF	5.0 SF	24"x18" BIKE LANE AHEAD 24"x12"	R3-17 R3-17aP	GR MTD
		645.81	1 EA	1 EA			
29	14-6 [1]	645.5102	4.5 SF	4.5 SF	BIKE LANE 24"x18" NO STANDING HERE TO CORNER 12"x18"	R3-17 NYP1-5R	GR MTD
		645.81	1 EA	1 EA			

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FA PROJECT NO.
0911001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
NONE

ISSUE DATE
11/2018

STATE OF NEW YORK * EVAN B. SCHMID * 072881 * LICENSED PROFESSIONAL ENGINEER

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TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
SIGN TEXT DATA

DRAWING NO.
SDS-2

SHEET 92 OF 110

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TEXT NUMBER	LOCATION NUMBER	ITEM NUMBER	PAYMENT FACTOR	TOTAL QUANTITY	TEXT WxH (mm)	M.U.T.C.D. NUMBER	MOUNT
30	14-9, 17-2, 17-17 (3)	645.5101	2.1 SF	6.3 SF	12"x15" 12"x9"	NYM6-2 (MOD.)	GR MTD
		645.81	1 EA	3 EA		M6-1	
31	17-7, 18-8 (2)	645.5101	2.1 SF	4.2 SF	12"x15" 12"x9"	NYM6-2 (MOD.)	PO MTD
		645.85	2 EA	4 EA		M6-1	
32	14-3, 15-6 17-6, 17-10 (4)	645.5101	2.1 SF	8.4 SF	12"x15" 12"x9"	NYM6-2 (MOD.)	GR MTD
		645.81	1 EA	4 EA		M6-1	
33	17-3 (1)	645.5101	2.1 SF	2.1 SF	12"x15" 12"x9"	NYM6-2 (MOD.)	PO MTD
		645.85	2 EA	2 EA		M6-1	
34	15-1 (1)	645.5102	4.3 SF	4.3 SF	BIKE LANE 24"x18" 12"x15"	R3-17 NYM6-2 (MOD.)	GR MTD
		645.81	1 EA	1 EA			
35	14-10 (1)	645.5101	4.7 SF	4.7 SF	12"x15" 12"x15" 12"x15" 12"x9" B-B	NYM6-2 (MOD.) NYM6-2 (MOD.) M5-1L	PO MTD
		645.85	4 EA	4 EA			
36	15-4, 15-10 (2)	645.5102	6.9 SF	13.8 SF	24"x18" BIKE LANE 12"x15" 12"x15" 12"x15" B-B	R3-17 NYM6-2 (MOD.) NYM6-2 (MOD.)	GR MTD
		645.81	1 EA	2 EA			

TEXT NUMBER	LOCATION NUMBER	ITEM NUMBER	PAYMENT FACTOR	TOTAL QUANTITY	TEXT WxH (mm)	M.U.T.C.D. NUMBER	MOUNT
37	18-2 (1)	645.5102	10.6 SF	10.6 SF	30"x30" IN LANE 24"x18" 12"x15"	W11-1 NYW5-32P NYM6-2 (MOD.)	GR MTD
		645.81	2 EA	2 EA			
38	15-9 (1)	645.5101	1.3 SF	1.3 SF	12"x15"	NYM6-2 (MOD.)	GR MTD
		645.81	1 EA	1 EA			
39	16-1 (1)	645.5101	3.9 SF	3.9 SF	12"x15" 12"x15" 12"x15" B-B	NYM6-2 (MOD.) NYM6-2 (MOD.)	GR MTD
		645.81	1 EA	1 EA			
40	17-9 (1)	645.5101	3.9 SF	3.9 SF	12"x15" 12"x15" 12"x15" B-B	NYM6-2 (MOD.) NYM6-2 (MOD.)	PO MTD
		645.85	3 EA	3 EA			
41	17-5, 18-6, 18-10 (3)	645.5101	2.1 SF	6.3 SF	12"x15" 12"x9"	NYM6-2 (MOD.) M6-1	GR MTD
		645.81	1 EA	3 EA			
42	15-2 (1)	645.5101	2.1 SF	2.1 SF	12"x15" 12"x9"	NYM6-2 (MOD.) M5-1L	GR MTD
		645.81	1 EA	1 EA			
43	17-13 (1)	645.5101	2.1 SF	2.1 SF	12"x15" 12"x9"	NYM6-2 (MOD.) M5-1L	PO MTD
		645.85	2 EA	2 EA			

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REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
0911001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
NONE

ISSUE DATE
11/2018

STATE OF NEW YORK * ERIN B. SCHMID * 072857 * LICENSED PROFESSIONAL ENGINEER

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MONROE COUNTY, NEW YORK

TITLE OF DRAWING
SIGN TEXT DATA

DRAWING NO.
SDS-3

SHEET 93 OF 110

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TEXT NUMBER	LOCATION NUMBER	ITEM NUMBER	PAYMENT FACTOR	TOTAL QUANTITY	TEXT WxH (mm)	M.U.T.C.D. NUMBER	MOUNT
44	18-1 [1]	645.5101	3.4 SF	3.4 SF	12"x15" / 12"x15" / 12"x9"	NYM6-2 (MOD.) / NYM6-2 (MOD.) / M5-1R	GND MTD
		645.81	1 EA	1 EA			
45	13-4 [1]	645.5102	5.0 SF	5.0 SF	24"x18" BIKE LANE / ENDS 24"x12"	R3-17 / R3-17BP	GR MTD
		645.81	1 EA	1 EA			
46	17-1, 17-12 [2]	645.5202 (SEE NOTE 5)	8.3 SF	16.6 SF	30"x30" AHEAD 24"x12"	W11-15 / W16-9P	GR MTD
		645.81	2 EA	4 EA			
47	18-5 [1]	645.5101	4.2 SF	4.2 SF	12"x15" 12"x9" / 12"x15" 12"x9" B-B	NYM6-2 (MOD.) / M6-2L / M6-2R	PO MTD
		645.85	4 EA	4 EA			
48	18-7 [1]	645.5101	4.2 SF	4.2 SF	12"x15" 12"x9" / 12"x15" 12"x9"	NYM6-2 (MOD.) / M6-2L / NYM6-2 (MOD.) / M6-1	GR MTD
		645.81	1 EA	1 EA			
49	2-4, 2-5 [2]	645.5101	2.3 SF	4.6 SF	HILL BLOCKS VIEW 18"x18"	W7-6	WPMTD (SEE NOTE 6)
		-	- EA	- EA			
50	14-11 [1]	645.5101	2.1 SF	2.1 SF	12"x15" 12"x9"	NYM6-2 (MOD.) / M7-2	GR MTD
		645.81	1 EA	1 EA			
51	15-7, 15-8 [2]	645.5202 (SEE NOTE 5)	8.3 SF	16.6 SF	30"x30" 24"x12"	W11-2 / W16-7PL	GR MTD
		645.81	2 EA	4 EA			
52	17-15 [1]	645.5202	2.3 SF	2.3 SF	STOP 18"x18"	R1-1	GR MTD
		645.81	1 EA	1 EA			
53	18-12, 18-13 [2]	645.5102	2.0 SF	4.0 SF	EXCEPT BICYCLES 24"x12"	R5-10C (MOD)	GR MTD (ON EXISTING POST)
		-	- EA	- EA			
54	17-16, 18-15 [2]	645.5102	4.0 SF	8.0 SF	EXCEPT BICYCLES 24"x12" / EXCEPT BICYCLES 24"x12" B-B	R5-10C (MOD)	GR MTD (ON EXISTING POST)
		-	- EA	- EA			
55	1-10 [1]	645.5101	6.8 SF	6.8 SF	12"x15" 12"x15" / 12"x15" 12"x15" 12"x9" 12"x9" B-B	NYM6-2 (MOD.) / NYM6-2 (MOD.) / M7-2	GR MTD
		645.81	1 EA	1 EA			
56	9-4 [1]	645.5101	3.4 SF	3.4 SF	12"x15" / 12"x15" / 12"x9"	NYM6-2 (MOD.) / NYM6-2 (MOD.) / M7-2	GR MTD
		645.81	1 EA	1 EA			
57	14-5 [1]	645.5102	5.1 SF	5.1 SF	24"x18" BIKE LANE / 12"x15" / 12"x9"	R3-17 / NYM6-2 (MOD.) / M7-2	GR MTD
		645.81	1 EA	1 EA			

SIGN NOTES

1) SIGN LOCATIONS AS SHOWN ON PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL RELOCATE EXISTING SIGNS AND INSTALL NEW SIGNS IN ACCORDANCE WITH THE NYSMUTCD.

2) THE PAYMENT FACTORS FOR SIGNS ARE FROM THE APPLICABLE STANDARD SHEETS OR SIGN FACE LAYOUTS.

3) THE PAYMENT FACTOR FOR POSTS IS THE NUMBER OF POSTS PROVIDED PER INSTALLATION.

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.

5) SIGNS W11-2, W11-15, W16-7PL AND W16-9P SHALL BE MADE OF YELLOW-GREEN HIGH VISIBILITY SHEETING.

6) SIGNS THAT ARE LOCATED ALONG THE TRAIL SHALL BE MOUNTED ON WOOD POSTS, SEE DETAIL ON DWG. NO. LA-2. COST FOR THE WOOD POST(S) TO BE INCLUDED IN THE PRICE BID FOR THE SIGN.

SIGN PLACEMENT DIMENSIONS

7) A) TRAIL CLEARANCES - SEE DWG. NO. LA-2 FOR DIMENSIONS.

B) ROADWAY CLEARANCES - SEE NYSDOT STANDARD SHEET NO. 645-03 FOR DIMENSIONS.

LEGEND

SYMBOL	DESCRIPTION
GR MTD	GROUND MOUNTED
WP MTD	WOOD POST MOUNTED
OH MTD	OVERHEAD MOUNTED
BR MTD	BRIDGE MOUNTED
PO MTD	POLE MOUNTED
B-B	BACK TO BACK
L / T	NEW SIGN LOCATION NUMBER TEXT NUMBER
L	SIGN REMOVAL
L / T	RELOCATE TO POSITION SHOWN
R	TO REMAIN

GENERAL NOTES

1. THE FOLLOWING SHALL BE IN ACCORDANCE WITH THE NYS MUTCD REQUIREMENTS FOR THE SPECIFIED MUTCD SIGN CODE:
   A. LETTER SIZE AND SERIES
   B. LEGEND & BACKGROUND COLOR
   C. REFLECTIVITY
   D. SIZE AND SHAPE OF SIGN
2. THE TYPE OF CHARACTERS AS SPECIFIED IN THE STANDARD SPECIFICATIONS SHALL BE AS FOLLOWS:

MUTCD CODE LETTER	TYPE OF CHARACTER
G & I	IV
R, P, W, & M	IV OR V

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
0910001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
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ISSUE DATE
11/2018

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PROJECT
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TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
SIGN TEXT DATA

DRAWING NO.
SDS-4

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11/16/2018 10:57:38 AM
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SIGN RELOCATIONS

SIGN LOCATION	ITEM 647.31 RELOCATE SIGN PANEL, SIGN PANEL ASSEMBLY SIZE I (UNDER 30 SQUARE FEET) (EACH)	DESCRIPTION
13-1	1	NO STANDING HERE TO CORNER
13-2	1	NO STANDING HERE TO CORNER
14-1	1	NO PARKING ANY TIME
14-2	1	NO PARKING ANY TIME
14-3	1	BUS STOP
14-4	1	NO PARKING ANY TIME
15-1	1	BIKE LANE
TOTALS	7	

SIGN REMOVALS

SIGN LOCATION	ITEM 647.51 REMOVE AND DISPOSE SIGN PANEL, SIGN PANEL ASSEMBLY SIZE I (UNDER 30 SQUARE FEET) (EACH)	ITEM 647.61 REMOVE AND DISPOSE GROUND MOUNTED TYPE A SIGN SUPPORT(S), FDNS AND ATTACHED SIGNS - SIZE I (UNDER 30 SQUARE FEET) (EACH)	DESCRIPTION
10-1		1	REMOVE "BIKE LANE" SIGN AND POST
14-1	1		REMOVE "RIGHT LANE ENDS" SIGN ONLY
15-1	1		REMOVE "ENDS" SIGN ONLY
15-2		1	REMOVE BIKE AND "SHARE THE ROAD" SIGNS AND POST
15-3	1		REMOVE MERGE SIGN ONLY
15-4		1	REMOVE MERGE SIGN AND POST
15-5		1	REMOVE "BIKE LANE" SIGN AND POST
TOTALS	3	4	

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REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
0910001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
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ISSUE DATE
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TOWN OF BRIGHTON & CITY OF ROCHESTER
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TITLE OF DRAWING
SIGN TEXT DATA

DRAWING NO.
SDS-5

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11/16/2018 10:57:38 AM
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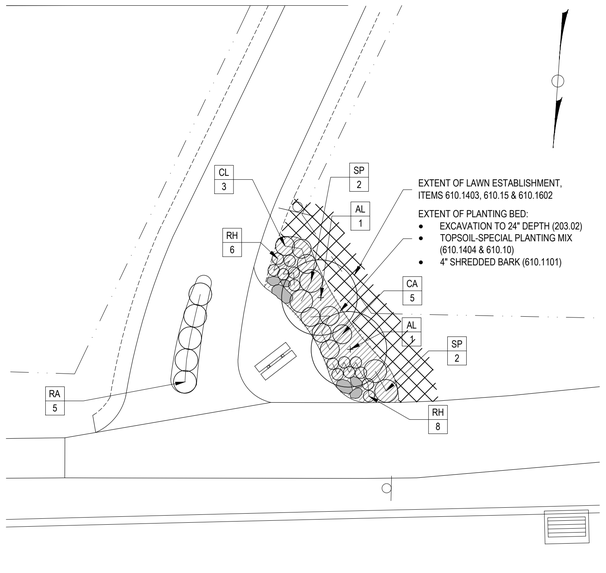
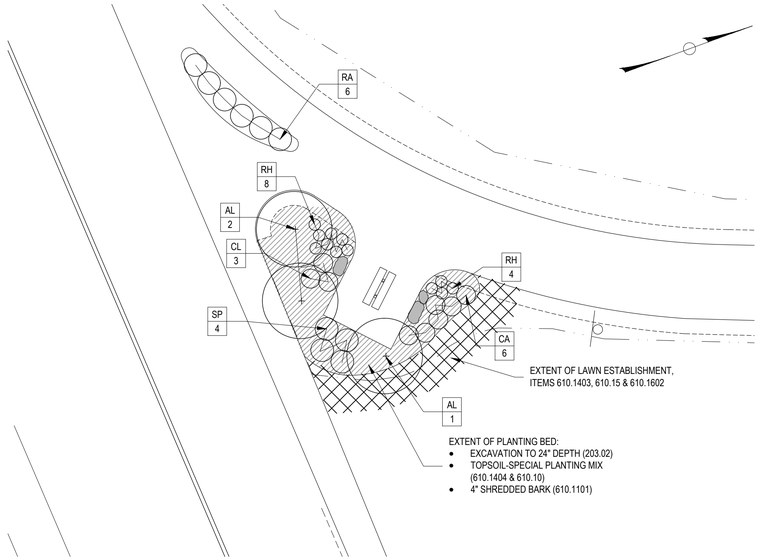
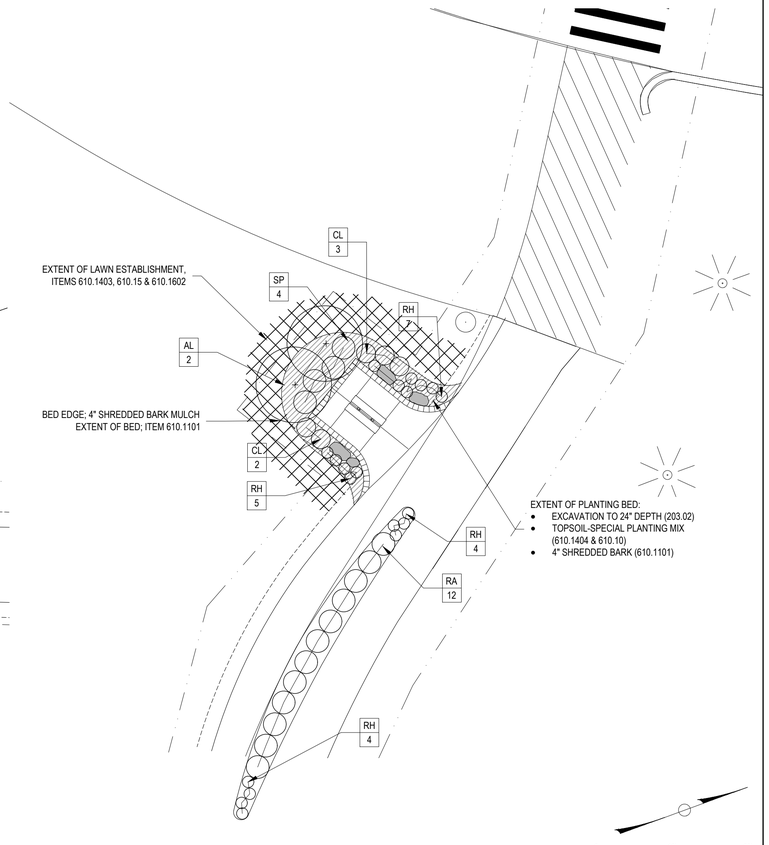
PLANTING LIST					
ITEM	**SYMBOL**	**QUANTITY**	**LATIN NAME**	**COMMON NAME**	**NOTES**
Trees & Shrubs					
611.0211	AL	7	*Amelanchier laevis*	Allegheny Serviceberry	2.0 TO 2.5" CALIPER; B&B; SINGLE STEM
611.0412	CA	11	*Cornus alba 'Red Gnome'*	Red Gnome Red Twig Dogwood	#5 CONTAINER
611.0412	CL	11	*Clethra alnifolia 'Hummingbird'*	Hummingbird Summersweet Clethra	#5 CONTAINER
611.0412	RA	23	*Rhus aromatica 'Gro-Low'*	Gro-Low Fragrant Sumac	#5 CONTAINER
611.0412	SP	12	*Syringa pubescens subsp. patula 'Miss Kim'*	Miss Kim Lilac	#5 CONTAINER
Perennials					
611.0711	RH	46	*Rudbeckia hirta*	Black-eyed Susan	#5 CONTAINER



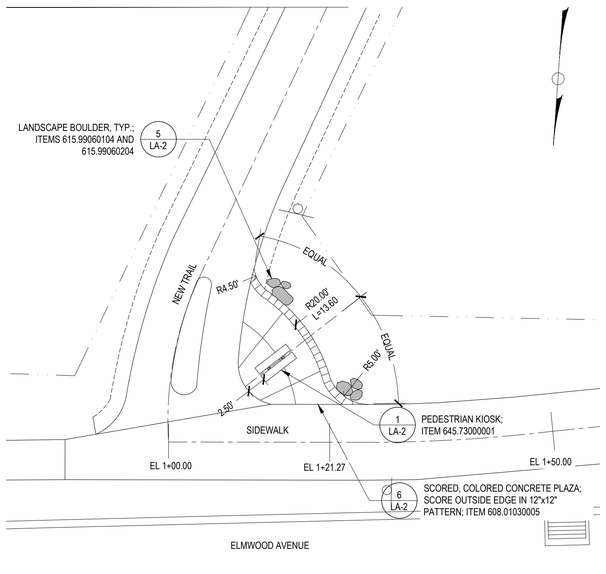
6 PLANTING PLAN - ELMWOOD AVENUE
Scale: 1"=10'-0"



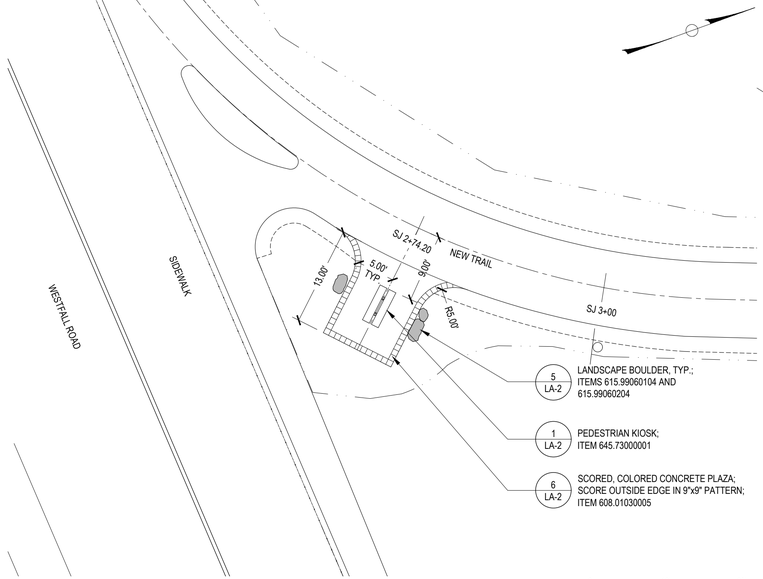
5 PLAZA PLANTING PLAN - WESTFALL ROAD
Scale: 1"=10'-0"



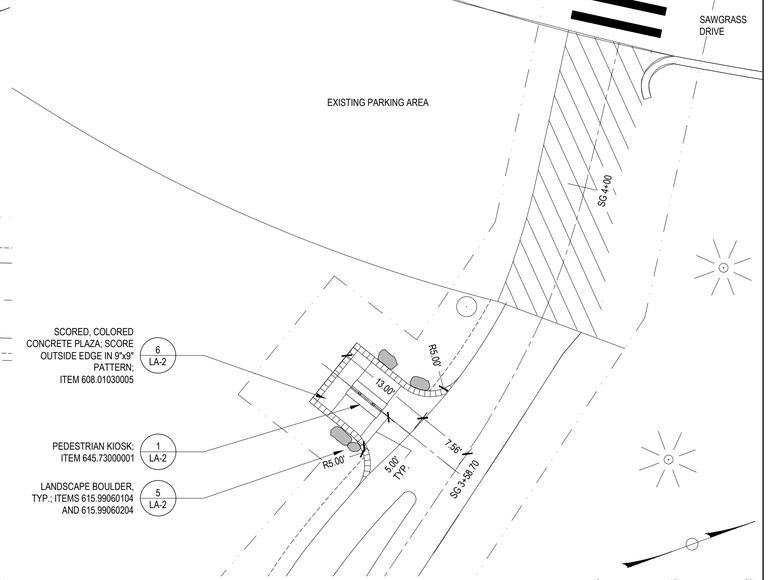
4 PLAZA PLANTING PLAN - SAWGRASS DRIVE
Scale: 1"=10'-0"



3 PLAZA LAYOUT PLAN - ELMWOOD AVENUE
Scale: 1"=10'-0"



2 PLAZA LAYOUT PLAN - WESTFALL ROAD
Scale: 1"=10'-0"



1 PLAZA LAYOUT - SAWGRASS DRIVE
Scale: 1"=10'-0"

REV	DESCRIPTION	DATE	BY
7			
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1			

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FA PROJECT NO.
091001
PROJECT MANAGER
R. SCHMID/K. WOLF
DRAWN BY
ARM
SCALE
AS NOTED
ISSUE DATE
10/12/2018

REGISTERED LANDSCAPE ARCHITECT
KENNETH ANDREW WOLF
001064-1
STATE OF NEW YORK

TYLER MORSE MARCHESE LATHROP
TYLER MORSE MARCHESE LATHROP LANDSCAPE ARCHITECTS
1001 W. Fairmount St., Ste. 301 Phone (607) 277-1400
Rochester, NY 14609 Fax (607) 277-6002

PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
LANDSCAPING DETAILS
PLAZA PLANS

DRAWING NO.
LA-1

SHEET 96 OF 104

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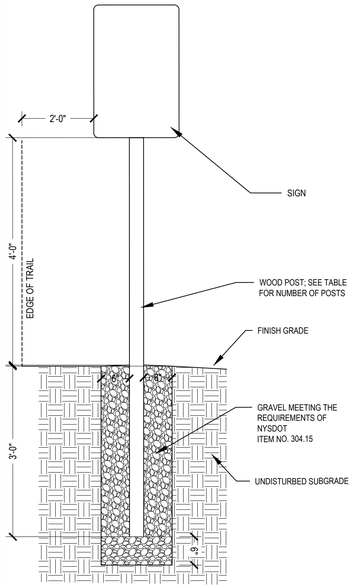
NOTES:

1. SIGN PANEL SHALL MEET THE REQUIREMENTS OF NYSDOT §730-01 ALUMINUM SIGN PANELS.
2. USE 4"x4" PRESSURE TREATED WOOD POSTS FOR SIGNAGE ON TRAIL. COST FOR WOOD POSTS AND POST INSTALLATION TO BE INCLUDED IN PRICE BID FOR SIGN.
3. USE METAL POSTS FOR SIGNS ALONG ROADWAYS; ITEM 645.81
4. SEE THE NYSDOT STANDARD SHEETS FOR MOUNTING DIMENSIONS AND CLEARANCES FOR SIGNS ALONG ROADWAYS.



9 WOOD SIGN POST DETAIL
3"=1'-0"

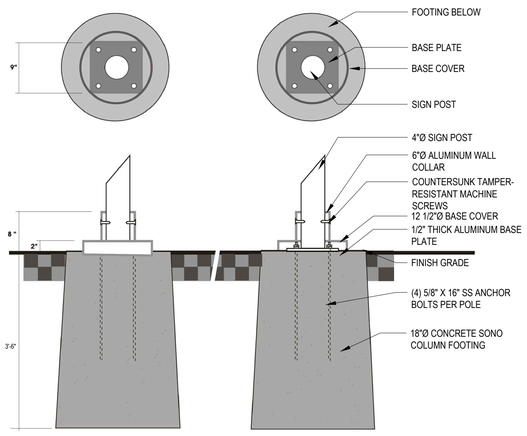
NOTES:

1. FONT FOR LETTERING ON ALL INFORMATIONAL SIGNS TO BE OPTIMA MEDIUM, UNLESS OTHERWISE NOTED.
2. COLOR OF SIGN BACKGROUND TO MATCH COLOR OF PEDESTRIAN KIOSKS.
3. ARTWORK FOR LOGOS AND SYMBOLS TO BE PROVIDED TO SIGN MANUFACTURER BY OWNER.

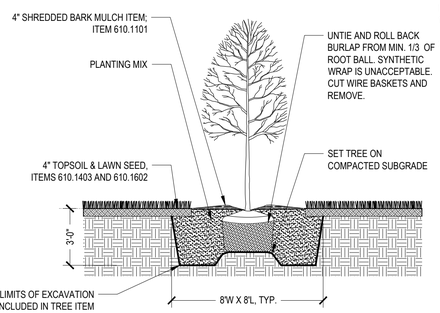
8 TRAIL RULES SIGN - ITEM 645.5101
3"=1'-0"

FOUNDATION NOTES:

1. WHEN INSTALLING FOUNDATION IN EXISTING PAVED AREA, SAWCUT EXISTING PAVEMENT FULL DEPTH PRIOR TO EXCAVATION.



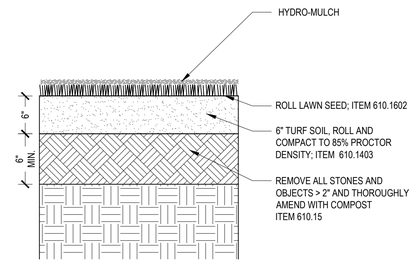
4 KIOSK FOUNDATION - INCLUDE IN ITEM 645.73000001
NTS



7 TREE PLANTING - ITEM 611.0211
Scale: 1/4" = 1'-0"

NOTES:

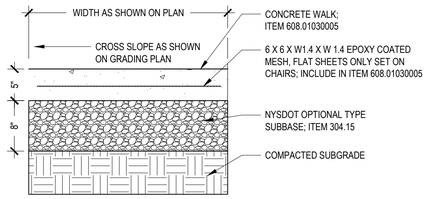
1. SEE LANDSCAPE PLANS FOR EXTENTS OF LAWN RESTORATION.
2. LAWN RESTORATION WORK TO COMPLY WITH REQUIREMENTS PER "NYS DEC - STORMWATER MANAGEMENT DESIGN MANUAL.



11 LAWN ESTABLISHMENT DETAIL
Scale: 1"=1'-0"

NOTES:

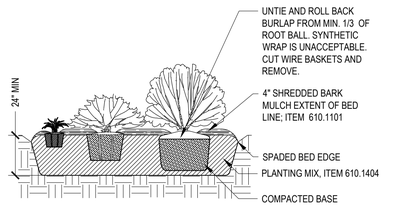
1. COLOR OF COLORED CONCRETE TO BE LIGHT BROWN, SELECTED FROM MANUFACTURER'S FULL RANGE OF COLORS.
2. PROVIDE A 3'X3' MOCK-UP FOR APPROVAL PRIOR TO FINAL INSTALLATION.



6 COLORED CONCRETE PLAZA DETAIL - ITEM 608.01030005
Scale: 1"=1'-0"

PLANTING NOTES:

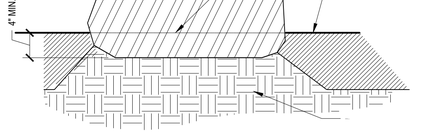
1. INSTALL PLANTS AT SAME DEPTH AS PREVIOUSLY PLANTED IN NURSERY OR CONTAINER
2. PROVIDE COMPACTED BASE UNDER ROOT BALL ONLY TO PREVENT SETTLING.
3. ENTIRE BED EXCAVATED AND BACKFILLED WITH PLANTING MIX:
   - 3 PARTS IMPORTED TOPSOIL
   - 1 PART IMPORTED COMPOST



10 SHRUB & PERENNIAL PLANTING - ITEMS 611.0412 AND 611.0711
Scale: 1/4" = 1'-0"

NOTES:

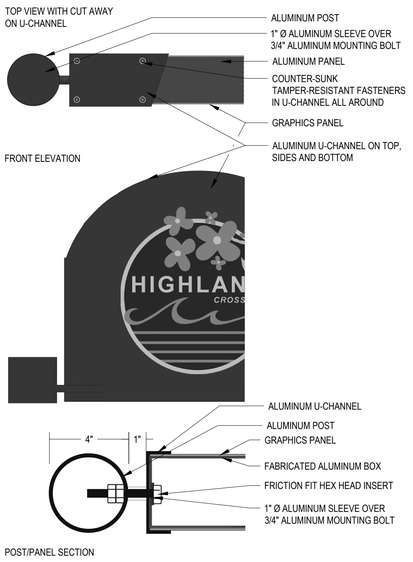
1. BOULDERS TO BE QUARRIED DOLOMITE LIMESTONE NATIVE TO THE REGION. PROVIDE LIMESTONE BOULDERS IN A RANGE OF PLEASING SHAPES AND SIZES AS SPECIFIED BELOW.
2. BOULDERS TO BE INSTALLED ON COMPACTED OR UNDISTURBED EXISTING GRADE PRIOR TO PLANTING SOIL INSTALLATION.
3. PROVIDE THE FOLLOWING QUANTITIES AND SIZES OF QUARRIED LIMESTONE BOULDERS FOR PLACEMENT IN THE LANDSCAPE
   - (6) BOULDERS @ APPROX. 2'L x 2'W x 2'H, TYPE 1, ITEM 615.99060104
   - (7) BOULDERS @ APPROX. 3'L x 2'W x 2'H, TYPE 2, ITEM 615.99060204



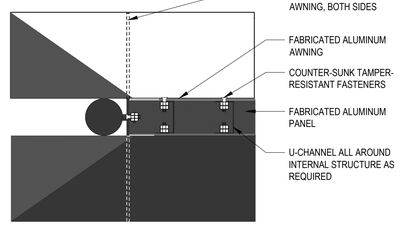
5 LANDSCAPE BOULDERS - ITEMS 615.99060104 AND 615.99060204
Scale: 1/2"=1'-0"

AWNING NOTES:

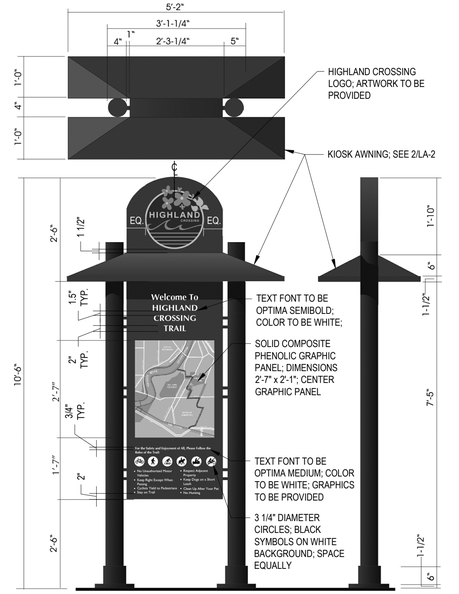
1. AWNING TO BE FORMED TO BE SHAPED AND FASTENED TO FABRICATED ALUMINUM CABINET AND INTERNAL U-CHANNEL STRUCTURE WITH TAMPER-RESISTANT FASTENERS AS REQUIRED TO MEET WIND LOAD SPECIFICATION. ALL FORMED EDGES AND JOINTS TO BE FILLED AND GROUND SMOOTH.
2. GRAPHICS PANEL (WITH TRAIL LOGO) TO BE PRE-DRILLED TO PERMIT AWNING CONNECTION TO U-CHANNEL INTERIOR STRUCTURE.



3 KIOSK FABRICATION DETAILS - INCLUDE IN ITEM 645.73000001
NTS



2 KIOSK AWNING - INCLUDE IN ITEM 645.73000001
NTS



NOTES - PEDESTRIAN KIOSK:

1. SEE GENERAL NOTES:SPECIALTY SIGNAGE ON DRAWING LA-3.
2. INCLUDE ALL WORK ASSOCIATED WITH FABRICATION AND INSTALLATION OF THE PEDESTRIAN KIOSK IN THE UNIT PRICE BID FOR ITEM 645.73000001.
3. ARTWORK FOR LOGO, MAP AND TRAIL RULES TO BE PROVIDED.
4. EACH PEDESTRIAN KIOSK IS DOUBLE SIDED AND WILL INCLUDE A MAP, LOGO, AND DIRECTIONAL TEXT ON EACH SIDE.
5. COLOR OF PANEL, POSTS AND AWNING TO BE DARK GREEN.
6. SEE 4/LA-2 FOR FOUNDATION DETAILS.

1 PEDESTRIAN KIOSK - ITEM 645.73000001
NTS

REV	DESCRIPTION	DATE	BY
7			
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1			

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FA PROJECT NO.
091001
PROJECT MANAGER
R. SCHMID/K. WOLF
DRAWN BY
ARM
SCALE
AS NOTED
ISSUE DATE
10/12/2018

REGISTERED LANDSCAPE ARCHITECT
KATHRYN ANN WOLF
001084-1
STATE OF NEW YORK

TWLA
LANDSCAPE ARCHITECTS
1001 W. Ridge Rd., Ste. 201
Rhinebeck, NY 12572
845-877-0002
Fax 607-277-0032

PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
LANDSCAPING DETAILS
PLAZA PLANS

DRAWING NO.
LA-2

SHEET 97 OF 104

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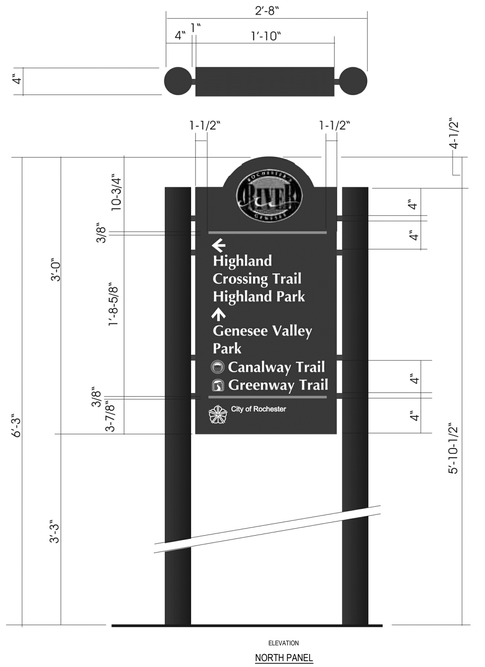
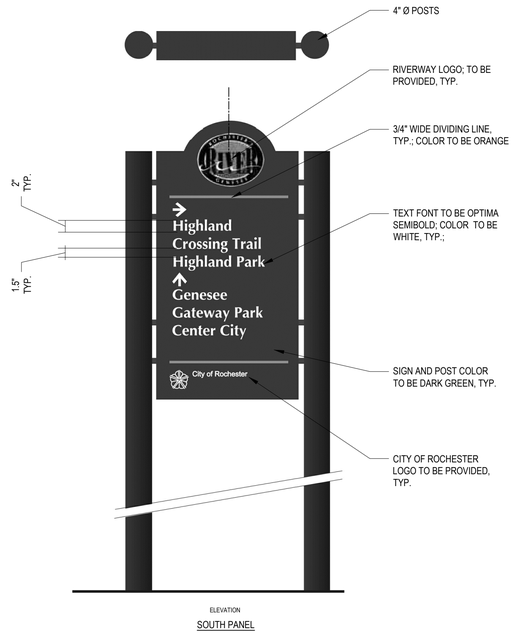
NOTES - DIRECTIONAL SIGN:

1. SEE GENERAL NOTES:SPECIALTY SIGNAGE ON DRAWING LA-3.
2. INCLUDE ALL WORK ASSOCIATED WITH THE FABRICATION & INSTALLATION OF THE DIRECTIONAL SIGN IN THE UNIT PRICE BID FOR ITEM 645.73000001.
3. DIRECTIONAL SIGN IS DOUBLE SIDED AND WILL INCLUDE A RIVERWAY TRAIL LOGO AND DIRECTIONAL TEXT ON EACH SIDE. CANALWAY TRAIL AND GREENWAY TRAIL LOGOS WILL BE INCLUDED ON NORTH SIDE ONLY.
4. ARTWORK FOR LOGOS TO BE PROVIDED BY CLIENT.
5. SEE 4/LA-3 FOR FOUNDATION DETAILS.



ELEVATION
NORTH PANEL



ELEVATION
SOUTH PANEL

3 DIRECTIONAL SIGN - ITEM 645.73000001
NTS

GENERAL NOTES - SPECIALTY SIGNAGE - ITEM 645.73000001

1. CONTRACTOR TO INCLUDE ALL WORK ASSOCIATED WITH THE FABRICATION & INSTALLATION OF SPECIALTY SIGNAGE IN THE UNIT PRICE BID FOR ITEM 645.73000001.
2. SPECIALTY SIGNS (PEDESTRIAN KIOSK AND DIRECTIONAL SIGN) ARE ALUMINUM POST AND PANEL SIGNS. BASIS OF DESIGN IS THE "GENESEE RIVERWAY TRAIL SIGNAGE STANDARDS MANUAL," UPDATED MARCH 2006.
3. THE SIGN MANUFACTURER SHALL HAVE A MINIMUM OF FIVE (5) CONSECUTIVE YEARS OF EXPERIENCE IN THE MANUFACTURING OF SIGNAGE OF THE PARTICULAR TYPE SPECIFIED.
4. THE SIGNAGE INSTALLER SHALL HAVE A MINIMUM OF THREE (3) CONSECUTIVE YEARS OF INSTALLING SIGNAGE OF SIMILAR TYPES SPECIFIED ON PROJECTS OF SIMILAR SCOPE.
5. REFERENCE STANDARDS: AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM) ASTM B 221-75, ALUMINUM ALLOY EXTRUDED BARS, RODS, WIRES, SHAPES AND TUBES.
6. CONTRACTOR SHALL FIELD VERIFY ALL MEASUREMENTS PRIOR TO FABRICATION AND INSTALLATION. NOTIFY THE ENGINEER IN CHARGE IN WRITING IF CONDITIONS ARE DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK. DO NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. COMMENCEMENT OF INSTALLATION CONSTITUTES ACCEPTANCE OF BASE SURFACES AND THE COST OF ANY CORRECTIVE WORK DUE TO FAULTY BASE SURFACES SHALL BE BORN BY THE CONTRACTOR.
7. PRESERVE AND PROTECT ALL SITE FEATURES, INCLUDING BUT NOT LIMITED TO PAVEMENTS, CURBS, LAWNS AND PLANTINGS.

SUBMITTALS, SHOP DRAWINGS, AND SAMPLES

1. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR EACH TYPE OF SIGN INDICATED SHOWING DETAILS OF FABRICATION AND INSTALLATION, INCLUDING COLORS.
2. CONTRACTOR TO SUBMIT COMPLETE TECHNICAL DATA FOR EACH TYPE OF MATERIAL BEING USED.
3. CONTRACTOR TO SUBMIT SAMPLES OF EACH OF THE FOLLOWING:
   a. 12"X12" SAMPLE OF POST AND PANEL SIGN SHOWING FINAL COLOR AND FINISH
   b. 6"X6" SAMPLE SOLID COMPOSITE PHENOLIC GRAPHIC PANEL SHOWING FINAL COLOR AND FINISH
   c. FULL SIZE SAMPLE OF TYPOGRAPHY IN TYPE STYLE SPECIFIED IN DRAWINGS
   d. FULL-SCALE PRINTS OF ALL GRAPHIC ELEMENTS OR ARTWORK TO BE USED ON THE SIGNAGE. DESIGNS SHALL BE OPTICALLY CORRECT AND ENLARGED PRIOR TO SUBMISSION.

MATERIALS: POST AND PANEL SIGNS

1. SIGN PANELS TO BE FABRICATED FROM 5052H38 SHEET ALUMINUM AROUND ALUMINUM FRAMING TO FORM SMOOTH NON-LIPPED FINISH.
2. THE MINIMUM THICKNESS FOR ALL SIGN PANEL FACES, CORNERS AND EDGES, AND POSTS SHALL BE 0.125" THROUGHOUT.
3. POSTS TO BE 4" DIAMETER AS SPECIFIED ON DRAWINGS. POST WALL THICKNESS TO BE AS REQUIRED TO MEET WIND LOAD SPECIFICATION. SEE WIND LOAD REQUIREMENTS NOTES BELOW.
4. ALUMINUM PANELS TO BE DEGREASED, IMMERSED IN A CHROMATE CONVERSION SOLUTION AND HOT WATER RINSE.
5. SIZE, FINISH, COLOR AND TYPE FONT TO BE AS SHOWN ON DRAWINGS.
6. ALUMINUM PANELS TO BE ATTACHED TO INTERNAL ALUMINUM FRAMING WITH STRUCTURAL ADHESIVE TO FORM SHAPES AS SHOWN ON DETAILS. STRUCTURAL ADHESIVE TO BE AS MANUFACTURED BY ONE OF THE FOLLOWING:
   a. Lord Corporation
      111 Lord Drive
      Cary, NC 17512-7923
   b. 3M Corporation
      3M Center
      St. Paul, MN 55144
   c. Master Bond, Inc.
      154 Hobart Street
      Hackensack, NY 07601
   d. Approved Equivalent

MATERIALS: GRAPHIC PANELS

1. SPECIALTY SIGNAGE SHALL UTILIZE 0.125" THICK DIGITALLY-PRINTED SOLID COMPOSITE PHENOLIC GRAPHIC PANELS. ELECTRONIC ART FOR GRAPHICS, INCLUDING MAP AND LOGOS WILL BE PROVIDED TO THE FABRICATOR. THE SOLID COMPOSITE PHENOLIC GRAPHIC PANELS SHALL MEET THE FOLLOWING MATERIAL AND MANUFACTURING SPECIFICATIONS:
   a. Thickness: 1/8" (0.125" / 3mm)
   b. Approximate weight/SF: 0.91 lbs
   c. Surface Finish: Textured semi-matte or semi-gloss outdoor finish
   d. Compressive Strength: M.D. 193.064 Kpa (31,000 PSI); C.D. 171,378 Kpa (25,000 PSI)
   e. Tensile Strength: M.D. 252,693 Kpa (22,000 PSI); C.D. 110,322 Kpa (16,000 PSI)
   f. Flexural Strength: M.D. 158,588 Kpa (23,000 PSI); C.D. 103,427 Kpa (15,000 PSI)
   g. Impact (Edgewise): M.D. 0.6 ft/lbs/in; C.D. 0.5 ft/lbs/in
   h. Rockwell Hardness M Scale: 95 to 115
   i. Flammability ASTM E-162: Flame propagation index of 10
   j. Radiant Panel: to 15 without drip of flame; 1/10" to ½" thickness
   k. Water Absorption: ¼":0.9% - ½":0.6% - 1":0.35%
   l. Toxicity Test: LC50 Pittsburgh Protocol Toxicity test. Equal to and no more toxic than wood or paper
   m. UV Resistance: Exterior Grade with 20-year warranty; based on ASTM G26/A; no changes after 3,000 hours
   n. Frost Resistance: No change after 15 cycles (16 hours ice at 20 degrees C and hours thawing in air)
   o. Pollution Resistance: DIN 50018 No change after 20 cycles
   p. Coefficient of Thermal Expansion: DIN 51045 (-20 degrees Celsius to +80 degrees Celsius temperature range) Longitudinal 9x10-6 per degree Celsius 16x10-6 per degree Celsius
2. TYPOGRAPHY TO BE STANDARD ALPHABET SERIES C IN ACCORDANCE WITH MUTCD VERSION 2009 AND STANDARD SIGNS AND MARKINGS (FHWA).
3. FABRICATOR RESPONSIBLE FOR PROOFREADING ALL COMPLETED SIGNS FOR MESSAGE ACCURACY.

MATERIALS: PAINTING

1. PRIME ALUMINUM POSTS AND PANELS WITH PRIMER COAT AS MANUFACTURED BY ONE OF THE FOLLOWING:
   a. Matthews Paint Company
      760 Pittsburg Drive
      Delaware, Ohio 43015
   b. PPG
      One PPG Place
      Pittsburgh, PA 15272
   c. Akzo Nobel Decorative Coatings Ltd.
      Rijksstraatweg 31
      Sassenheim, 2171 AJ
      NETHERLANDS
2. PAINT ALUMINUM POSTS AND PANELS WITH TWO-PART ACRYLIC URETHANE ENAMEL IN SEMI-GLOSS FINISH AS MANUFACTURED BY ONE OF THE FOLLOWING:
   a. Matthews Paint Company
      760 Pittsburg Drive
      Delaware, Ohio 43015
   b. PPG
      One PPG Place
      Pittsburgh, PA 15272
   c. Akzo Nobel Decorative Coatings Ltd.
      Rijksstraatweg 31
      Sassenheim, 2171 AJ
      NETHERLANDS

COLORS

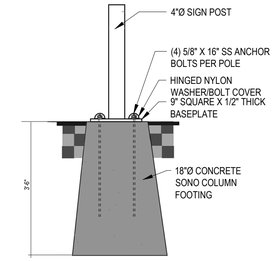
1. DARK GREEN TO BE PMS 343
2. ORANGE TO BE PMS 165

WIND LOAD REQUIREMENTS

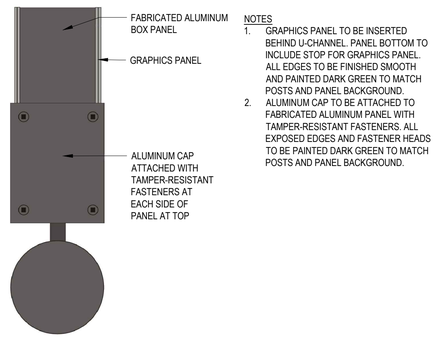
1. FABRICATE SIGNS TO WITHSTAND A WIND LOAD OF 35 POUNDS PER SQUARE FOOT OR A DIRECT WIND FORCE OF 110 MILES PER HOUR.

MOUNTING & INSTALLATION

1. SIGNAGE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPMENT OF CONCRETE FOOTINGS AND COORDINATION OF ALL HARDWARE REQUIREMENTS FOR INSTALLATION OF SIGNS.
2. SIGNS TO BE LOCATED PER SIGN SCHEDULE IN THE DRAWINGS.
3. SIGNAGE CONTRACTOR WILL BE RESPONSIBLE TO CONFIRM THAT SIGN LOCATIONS ARE FREE AND CLEAR OF UNDERGROUND UTILITIES BY CONSULTING WITH LOCAL AUTHORITIES PRIOR TO EXCAVATING FOR SIGNAGE ANCHORS. SHOULD THERE BE ANY CONFLICTS WITH PREFERRED SIGN LOCATIONS, THE OWNER WILL IDENTIFY AND DOCUMENT ALTERNATE LOCATIONS AND CONVEY THESE TO THE SIGNAGE CONTRACTOR.
4. ALL WORK SHALL BE INSTALLED PLUMB, LEVEL AND TRUE IN ALIGNMENT IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND THE APPROVED SHOP DRAWINGS.
5. ALL COMPONENTS SHALL BE SECURELY ATTACHED.
6. ALL ABOVE-GRADE CONNECTIONS OF SEPARATE OR MOVEABLE COMPONENTS SHALL BE WATER-TIGHT.
7. 5.CONTRACTOR TO PRESERVE AND PROTECT ALL EXISTING SITE FEATURES, INCLUDING BUT NOT LIMITED TO PAVEMENTS, CURBS, LAWN, AND PLANTINGS.

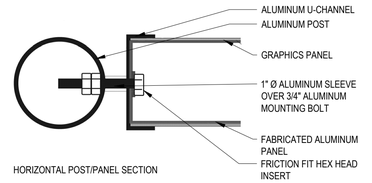


4 DIRECTIONAL SIGN FOUNDATION DETAIL - INCLUDE IN ITEM 645.73000001
NTS



NOTES
1. GRAPHICS PANEL TO BE INSERTED BEHIND U-CHANNEL. PANEL BOTTOM TO INCLUDE STOP FOR GRAPHICS PANEL. ALL EDGES TO BE FINISHED SMOOTH AND PAINTED DARK GREEN TO MATCH POSTS AND PANEL BACKGROUND.
2. ALUMINUM CAP TO BE ATTACHED TO FABRICATED ALUMINUM PANEL WITH TAMPER-RESISTANT FASTENERS. ALL EXPOSED EDGES AND FASTENER HEADS TO BE PAINTED DARK GREEN TO MATCH POSTS AND PANEL BACKGROUND.

2 DIRECTIONAL SIGN PANEL TOP CAP DETAIL - INCLUDE IN ITEM 645.73000001
NTS



HORIZONTAL POST/PANEL SECTION

1 DIRECTIONAL SIGN DETAILS - INCLUDE IN ITEM 645.73000001
NTS

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FA PROJECT NO.
091001
PROJECT MANAGER
R. SCHMID/K. WOLF
DRAWN BY
ARM
SCALE
AS NOTED
ISSUE DATE
10/12/2018

REGISTERED LANDSCAPE ARCHITECT
KATHRYN ANN WOLF
001064-1
STATE OF NEW YORK

TYLER MILLER LA
LANDSCAPE ARCHITECTS
1001 W. Ridge St., Ste. 301
Marion, NY 14505
585-271-1400
Fax 585-777-6992

PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
LANDSCAPING DETAILS
PLAZA PLANS

DRAWING NO.
LA-3

SHEET 98 OF 104

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GENERAL NOTES:

1. DESIGN SPECIFICATIONS: LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES, 2ND EDITION.
2. LIVE LOAD: 90 PSF PER PEDESTRIAN GUIDE SPECIFICATIONS, OR H-5 TRUCK LOADING.
3. CONSTRUCTION AND MATERIALS SPECIFICATIONS: STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, OFFICE OF ENGINEERING, DATED SEPTEMBER 1, 2018, WITH CURRENT ADDITIONS AND MODIFICATIONS.
4. ALL SHOP DRAWINGS SUBMITTED FOR THIS PROJECT SHALL BE IN US UNITS.
5. THE COST OF WATER USED FOR COMPACTION OF SELECT FILL ITEMS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203.21, SELECT STRUCTURAL FILL.
6. THE BRIDGE SHALL BE MAINTAINED IN ACCORDANCE WITH THE GUIDELINES CONTAINED IN THE CURRENT EDITION OF THE AASHTO MANUAL FOR BRIDGE MAINTENANCE.
7. THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE AGENCIES AND MUNICIPALITIES INVOLVED, WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE AGENCIES AND MUNICIPALITIES INVOLVED, THE DAMAGED MATERIAL SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
8. WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED IN THE UNIT BID PRICES FOR THOSE ITEMS.
9. ALL EXISTING AREAS DISTURBED BEYOND THE WORK AND GRADING LIMITS SHOWN ON THE DRAWINGS OR AS REVISED BY THE ENGINEER, SHALL BE RESTORED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE AGENCIES AND MUNICIPALITIES INVOLVED.
10. TYPICAL WORK LIMITS ARE SHOWN ON THE PLANS. ACTUAL LIMITS OF WORK SHALL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION. THE ENGINEER SHALL DEFINE SPECIFIC LIMITS WHERE QUESTIONS ARISE.

FOUNDATION NOTES:

1. BOARDWALK ABUTMENTS AND PIERS WILL BE SUPPORTED ON HELICAL ANCHOR FOR PEDESTRIAN BOARDWALK, ITEM 608.97000004.
2. HELICAL ANCHORS SHALL HAVE A MINIMUM WORKING LOAD OF 12 KIPS EACH.
3. HELICAL ANCHORS SHALL BE TESTED TO 1.25 TIMES WORKING LOAD.
4. ONE (1) TEST WILL BE REQUIRED FOR EVERY 10 HELICAL ANCHORS INSTALLED.
5. COST OF HARDWARE, INCLUDING BRACKETS, CLIP ANGLES, SPECIAL FITTINGS, ECT. NECESSARY TO INSTALL HELICAL ANCHORS SHALL BE INCLUDED IN PRICE BID FOR ITEM 608.97000004.

FRAMING FASTENER SCHEDULE:

1. WOOD FRAMING SHALL BE FASTENED IN ACCORDANCE WITH THE FOLLOWING FASTENING SCHEDULE, UNLESS NOTED OTHERWISE ON THE PLANS.

LOCATION	CONNECTION	FASTENER
ABUTMENTS	CAP BEAM TO PILE	(2) ¾" x 9½" DOME HEAD BOLT, HOT-DIP GALVANIZED
ALL	JOIST TO CAP BEAM	(3) 3" S.S. DECK SCREWS
ALL	JOIST TO BLOCKING/BRIDGING	(3) 3" S.S. DECK SCREWS
ABUTMENT	END JOIST TO JOIST	(3) 3" S.S. DECK SCREWS
ALL	DECKING TO JOIST	(2) 3" S.S. DECK SCREWS
ALL	HANDRAILS	(2) 3" S.S. DECK SCREWS
ALL	RAIL POSTS	(4) ⅜" x 3½" DOME HEAD BOLTS, HOT-DIP GALVANIZED & (10) 3" S.S. DECK SCREWS

SUPERSTRUCTURE NOTES:

1. ALL TIMBER AND LUMBER FOR THE BOARDWALK STRUCTURAL FRAMING AND PILE BENT CAP BEAMS SHALL BE PAID FOR UNDER ITEM 594.03 - TREATED TIMBER AND LUMBER. TREATED TIMBER AND LUMBER FOR THE DECKING AND RAILING SHALL BE PAID FOR UNDER ITEM 594.01 TIMBER AND LUMBER (IPE DECKING AND RAILING) OR ITEM 594.03 TREATED TIMBER AND LUMBER. SEE NOTE 2.
2. BASE BID DECKING AND RAILING TO PRESSURE TREATED PAID UNDER ITEM 594.03 ALTERNATIVE 1 DECKING AND RAILING TO BE IPE PAID UNDER ITEM 594.01
3. PRESSURE TREATMENT SHALL BE IN ACCORDANCE WITH SECTION 594 OF NYSDOT STANDARD SPECS,
4. DIMENSIONAL LUMBER SHALL BE SURFACED ON 4 SIDES (S4S) AND BE NO. 2 OR BETTER SOUTHERN PINE. ROUGH SAWN LUMBER SHALL BE NO. 1 OR BETTER SOUTHERN PINE.
5. ALL STEEL BOLTS AND HARDWARE REQUIRED FOR CONNECTING TIMBER MEMBERS, UNLESS NOTED OTHERWISE, SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A153.
6. TIMBER FASTENERS SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD STRUCTURES AND SHALL BE STAINLESS STEEL.
7. PRESSURE TREATED TIMBER DECKING SHALL BE INSTALLED SUCH THAT EACH BOARD IS IN TIGHT CONTACT WITH THE ADJACENT BOARDS. IPE DECKING SHALL BE SET WITH 0.1" GAP BETWEEN BOARDS. IPE DECKING SHALL BE 6" IN WIDTH OR WIDER. BOTH PRESSURE TREATED AND IPE DECKING SHALL BE INSTALLED DIAGONALLY SUCH THAT THE ANGLE BETWEEN THE DECKING AND THE JOISTS IS BETWEEN 90 AND 45 DEGREES. BUTT SPLICES OF DECKING BOARDS SHALL NOT BE PERMITTED FOR BOTH PRESSURE TREATED AND IPE OPTIONS.

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FA PROJECT NO.
0911001

PROJECT MANAGER
R. SCHMID

DRAWN BY
S. SCHAFFER

SCALE
AS SHOWN

ISSUE DATE
11/2018

LICENSED PROFESSIONAL ENGINEER
JESSE S. LOGAN JR.
STATE OF NEW YORK

FISHER ASSOCIATES
WWW.FISHERASSOC.COM

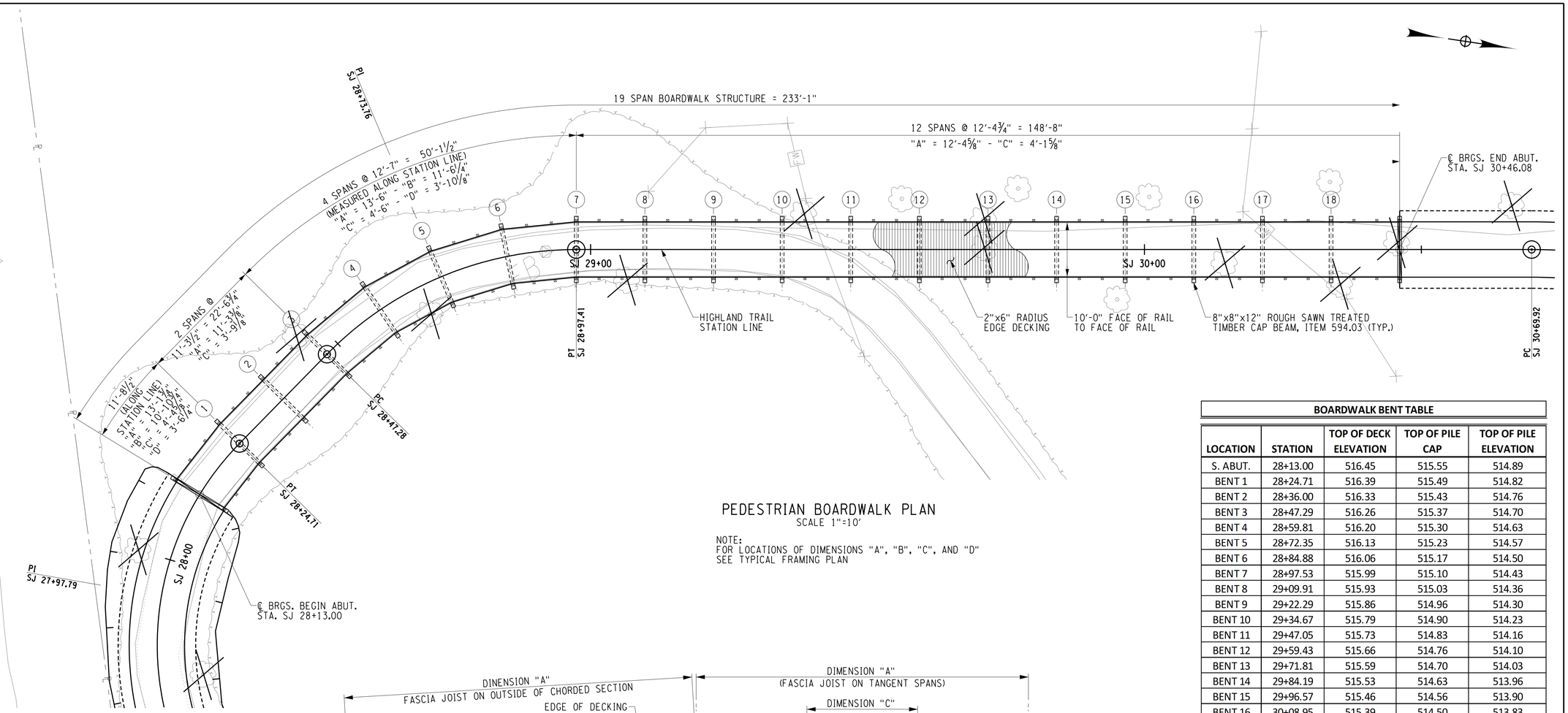
PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
GENERAL NOTES - BRIDGE

DRAWING NO.
BR-01

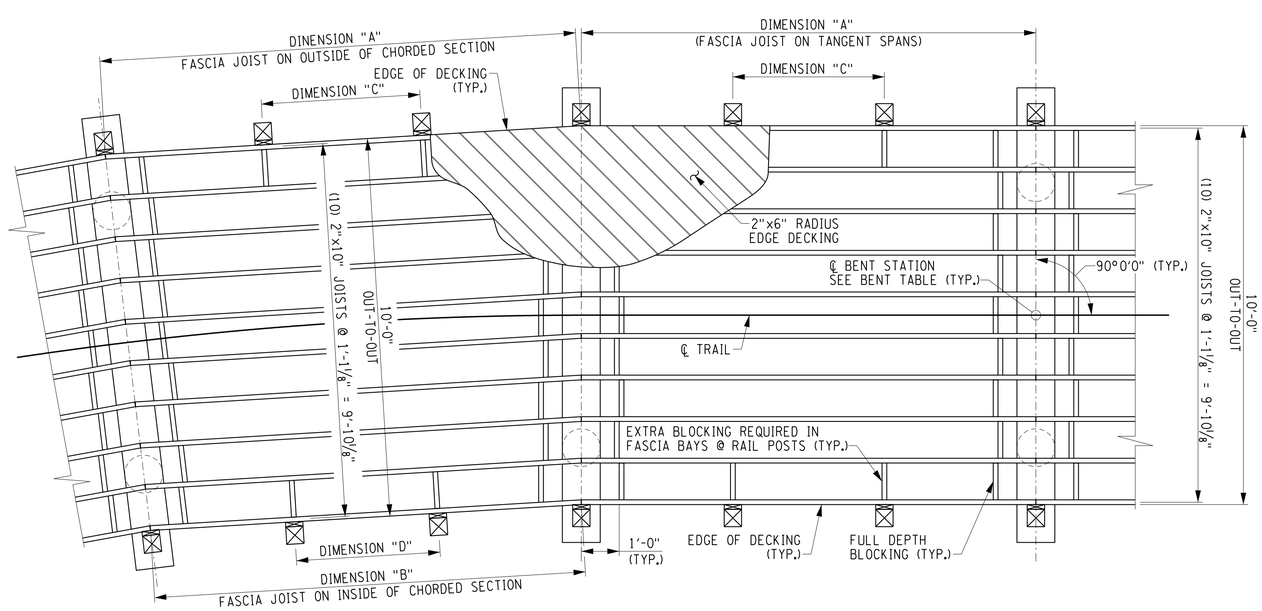
SHEET 99 OF 110

H:\Projects\0911001-Highland Park-Canalway Trail\Eng\CUT\0911001_BR-01.dgn
11/16/2018 10:57:42 AM
TimD



PEDESTRIAN BOARDWALK PLAN
SCALE 1"=10'

NOTE:
FOR LOCATIONS OF DIMENSIONS "A", "B", "C", AND "D"
SEE TYPICAL FRAMING PLAN



CHORDED SPANS TANGENT SPANS

TYPICAL FRAMING PLAN
NOT TO SCALE

BOARDWALK BENT TABLE

LOCATION	STATION	TOP OF DECK ELEVATION	TOP OF PILE CAP	TOP OF PILE ELEVATION
S. ABUT.	28+13.00	516.45	515.55	514.89
BENT 1	28+24.71	516.39	515.49	514.82
BENT 2	28+36.00	516.33	515.43	514.76
BENT 3	28+47.29	516.26	515.37	514.70
BENT 4	28+59.81	516.20	515.30	514.63
BENT 5	28+72.35	516.13	515.23	514.57
BENT 6	28+84.88	516.06	515.17	514.50
BENT 7	28+97.53	515.99	515.10	514.43
BENT 8	29+09.91	515.93	515.03	514.36
BENT 9	29+22.29	515.86	514.96	514.30
BENT 10	29+34.67	515.79	514.90	514.23
BENT 11	29+47.05	515.73	514.83	514.16
BENT 12	29+59.43	515.66	514.76	514.10
BENT 13	29+71.81	515.59	514.70	514.03
BENT 14	29+84.19	515.53	514.63	513.96
BENT 15	29+96.57	515.46	514.56	513.90
BENT 16	30+08.95	515.39	514.50	513.83
BENT 17	30+21.33	515.33	514.43	513.76
BENT 18	30+33.71	515.26	514.36	513.70
N. ABUT.	30+46.09	515.19	514.30	513.63

LOAD RATING	
PEDESTRIAN	90 PSF
VEHICLE	H5

NOTES:
1. FOR TYPICAL TRANSVERSE SECTION & DETAILS SEE BR-05.
2. FOR BOARDWALK GENERAL NOTES SEE BR-01.

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FA PROJECT NO. 0911001
PROJECT MANAGER R. SCHMID
DRAWN BY S. SCHAFFER
SCALE AS SHOWN
ISSUE DATE 11/2018

JEREMY S. LOGAN
LICENSED PROFESSIONAL ENGINEER
STATE OF NEW YORK

FISHER ASSOCIATES
WWW.FISHERASSOC.COM

PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
BOARDWALK PLAN

DRAWING NO.
BR-02

SHEET 100 OF 110

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11/16/2018 10:57:45 AM
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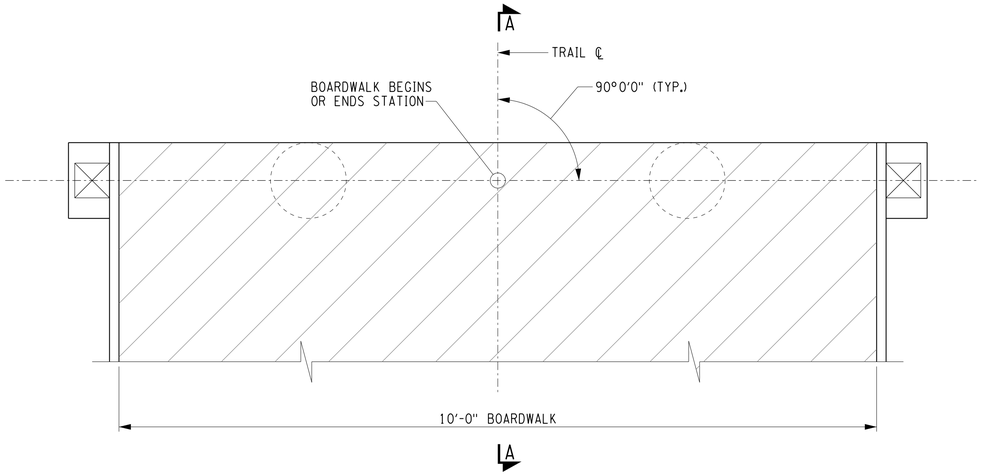
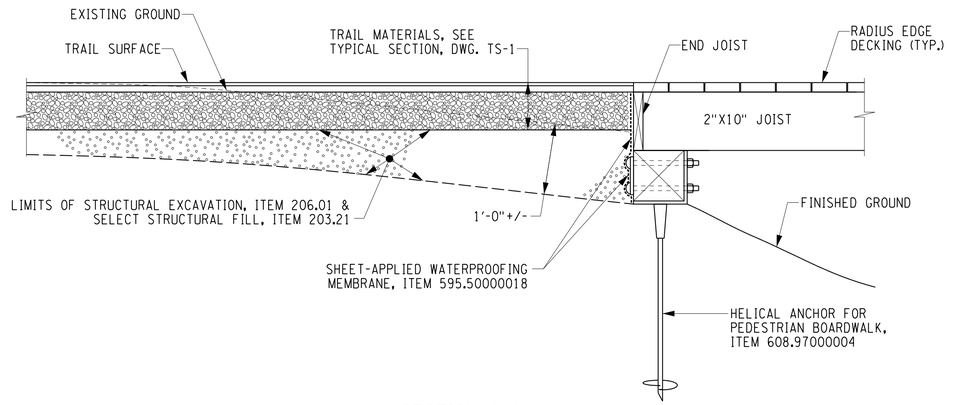
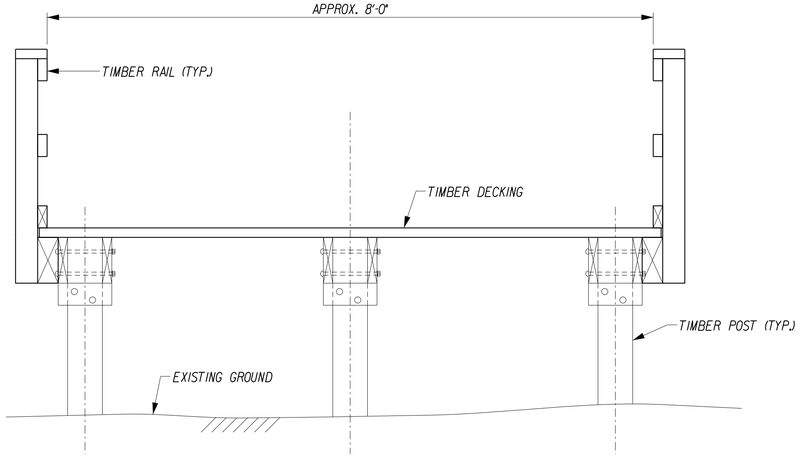


PLAN
SCALE ½" = 1'-0"



SECTION A-A
SCALE ½" = 1'-0"

PROPOSED ABUTMENT



EXISTING BOARDWALK
SCALE ½" = 1'-0"

NOTES:

1. EXISTING BOARDWALK TO BE COMPLETELY REMOVED. PAID FOR UNDER ITEM 202.12001, REMOVING EXISTING SUPERSTRUCTURES.
2. TIMBER POSTS CAN BE CUT OFF 6" BELOW GROUND LEVEL AND LEFT IN PLACE.

LEGEND

EXISTING GROUND SURFACE

SELECT STRUCTURE FILL (ITEM 203.21), COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY

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FA PROJECT NO.
0911001

PROJECT MANAGER
R. SCHMID

DRAWN BY
S. SCHAFFER

SCALE

ISSUE DATE
11/2018

LICENSED PROFESSIONAL ENGINEER
JESSE S. LOGAN JR.
No. 092102
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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
ABUTMENT PLAN

DRAWING NO.
BR-03

SHEET 101 OF 110

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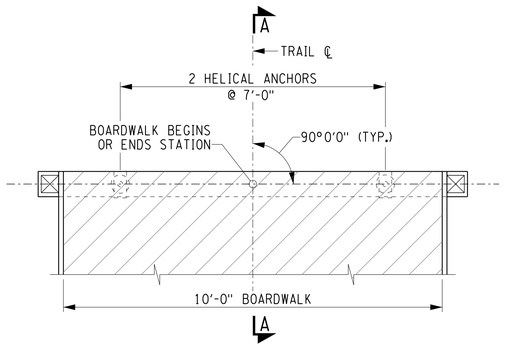
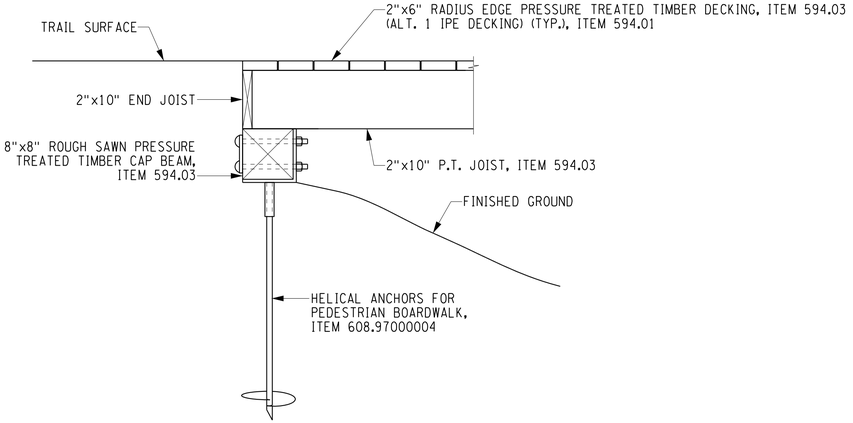
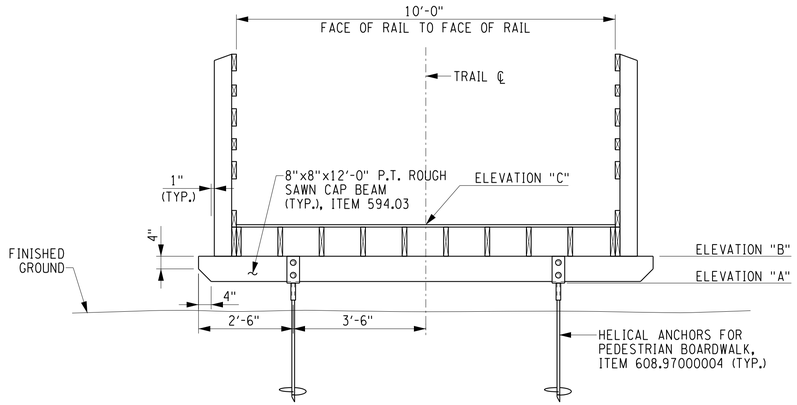


PLAN
SCALE 1/4" = 1'-0"

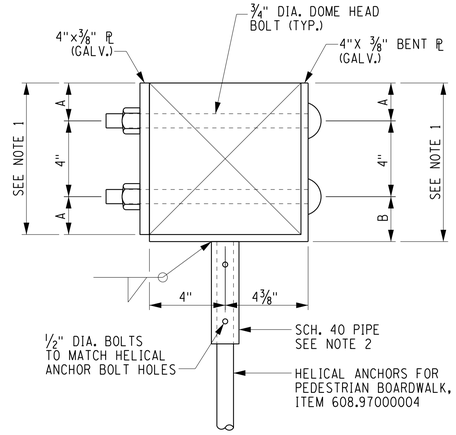


SECTION A-A
SCALE 1" = 1'-0"



ELEVATION
SCALE 1/4" = 1'-0"

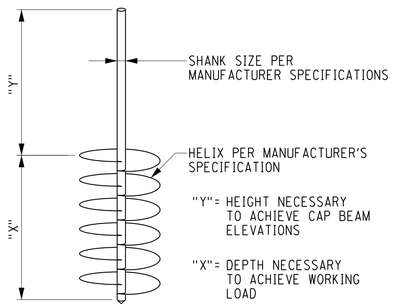
NOTES:
1. FOR ELEVATIONS SEE BR-02.
   ELEVATION "A" = TOP OF PILE ELEVATION
   ELEVATION "B" = TOP OF PILE CAP
   ELEVATION "C" = TOP OF DECK ELEVATION
2. ALL CAP BEAMS AND HELICAL ANCHORS PLACED AT 90° TO STATION LINE UNLESS NOTED OTHERWISE.



CAP TO PILE CONNECTION
SCALE 1 1/2" = 1'-0"

CAP TO PILE CONNECTION NOTES:

1. FABRICATE STEEL PLATES TO MATCH DEPTH AND WIDTH OF 8"X8" NOMINAL CAP BEAM DIMENSIONS.
2. SIZE PIPE TO FIT HELICAL ANCHOR.



HELICAL ANCHOR DETAIL
NOT TO SCALE

NOTES:
1. FOR BOARDWALK NOTES SEE BR-02.
2. FOR TYPICAL TRANSVERSE SECTION & DETAILS SEE BR-05.
3. FOR BOARDWALK GENERAL NOTES SEE BR-01

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FA PROJECT NO.
091001
PROJECT MANAGER
R. SCHMID
DRAWN BY
S. SCHAFFER
SCALE
ISSUE DATE
11/2018

LICENSED PROFESSIONAL ENGINEER
JESSE S. LOGAN JR.
STATE OF NEW YORK

FISHER ASSOCIATES
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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TYPICAL BOARDWALK SUBSTRUCTURES
PLAN, ELEVATION, & SECTIONS

DRAWING NO.
BR-04

SHEET 102 OF 110

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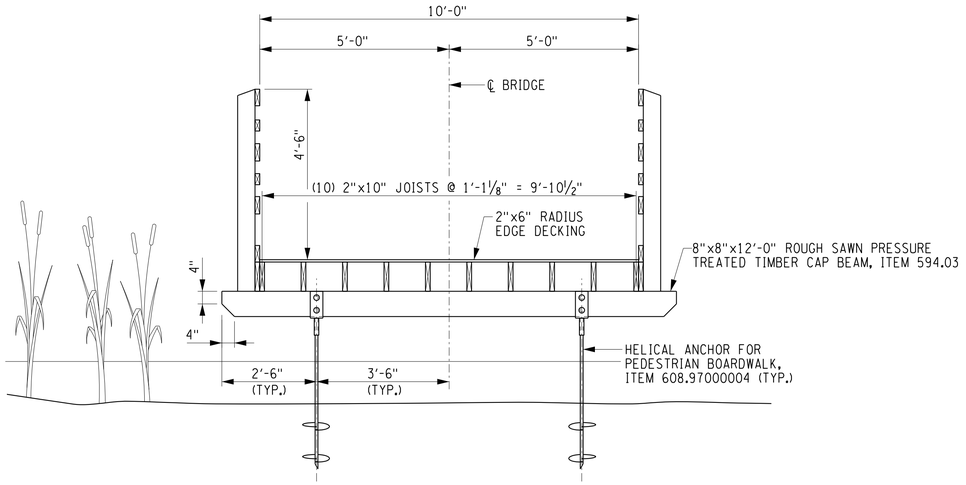
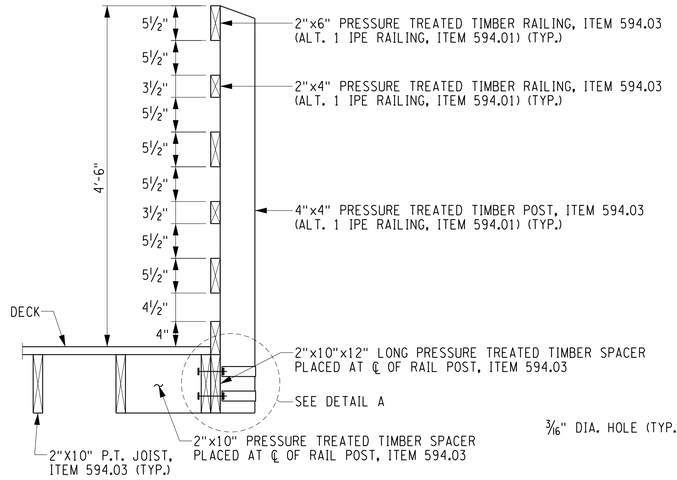
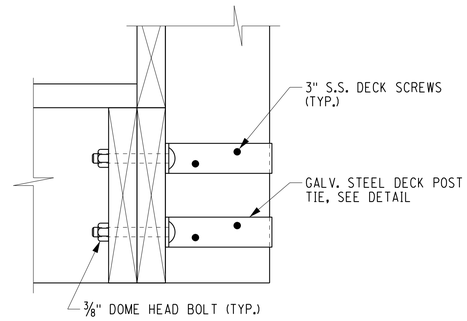


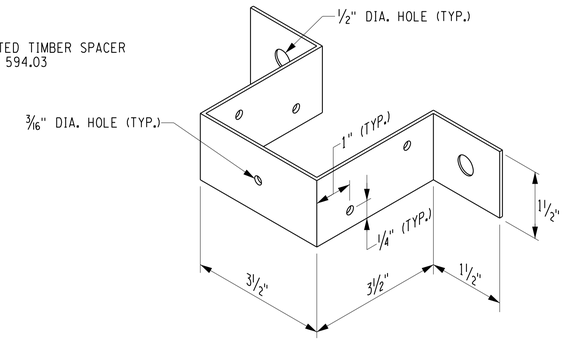
TRANSVERSE SECTION
BOARDWALK SPANS
SCALE ½" = 1'-0"



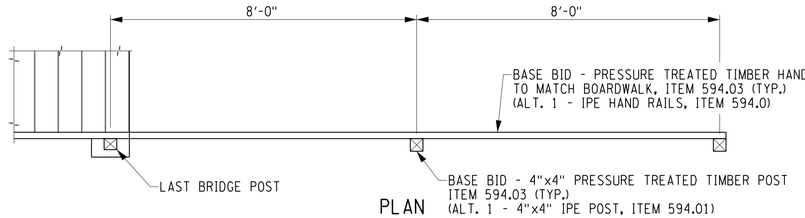
BOARDWALK RAILING DETAIL
SCALE 1" = 1'-0"



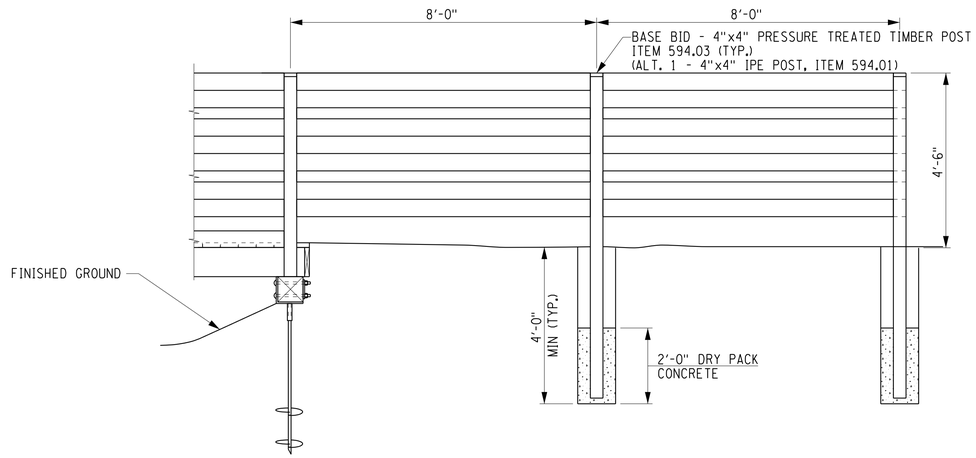
DETAIL A
NOT TO SCALE



GALV. STEEL DECK POST TIE
(14 GAUGE)
ITEM 656.01
NOT TO SCALE



PLAN



ELEVATION

TYPICAL APPROACH RAIL LAYOUT
SCALE ½" = 1'-0"
NOTE: TYPICAL LAYOUT FOR ALL (4) CORNERS OF BRIDGE.

TIMBER DECKING AND RAILING NOTE:

IN THE BASE BID DECKING, RAILING, RAIL POSTS, APPROACH RAILING AND APPROACH RAIL POSTS SHALL BE TRESSURE TREATED TIMBER AND BE PAID UNDER ITEM 594.03.

ALTERNATIVE 1 DECKING, RAILING, RAIL POSTS, APPROACH RAILING AND APPROACH RAIL POSTS SHALL USE IPE LUMBER IN ACCORDANCE WITH THE SPECIAL NOTES IN THE CONTRACT DOCUMENTS AND BE PAID UNDER ITEM 594.01.

NOTE:
1. FOR BOARDWALK GENERAL NOTES SEE BR-01.

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FA PROJECT NO.
0911001
PROJECT MANAGER
R. SCHMID
DRAWN BY
S. SCHAFFER
SCALE
ISSUE DATE
11/2018

LICENSED PROFESSIONAL ENGINEER
JESSE S. LOGAN JR.
STATE OF NEW YORK

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
BOARDWALK COMMON DETAILS - 1

DRAWING NO.
BR-05

SHEET 103 OF 110

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TRAFFIC SIGNAL NOTES

GENERAL:

1. THE CONTRACTOR SHALL INSTALL THE TRAFFIC SIGNAL IN ACCORDANCE WITH ALL APPLICABLE NEW YORK STATE CODES.

2. THE CONTRACTOR SHALL MEET ALL REQUIREMENTS OF THE NEW YORK BOARD OF FIRE UNDERWRITERS FOR SIGNAL INSTALLATIONS.

3. ALL EXISTING TRAFFIC SIGNALS SHALL REMAIN IN OPERATION UNTIL ALL NEW TRAFFIC SIGNALS ARE OPERATIONAL. THE TRAFFIC SIGNAL MAINTENANCE ENGINEER (TSME) WILL ALLOW FOR REASONABLE SIGNAL SHUTDOWN PERIOD FOR EQUIPMENT RELOCATION AND INSTALLATION. THE TSME WILL BE SOLELY RESPONSIBLE FOR ESTABLISHING THE LENGTH AND ANY REQUIREMENTS FOR A SIGNAL SHUTDOWN PERIOD.

   THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE TRAFFIC CONTROL, MEETING ANY REQUIREMENTS MADE BY THE ENGINEER AND FOR COMPLETING THE WORK WITHIN THE LENGTH OF TIME GIVEN FOR ANY SHUTDOWN PERIOD.

   THE ENGINEER WILL ASSESS ENGINEERING CHARGES AND/OR LIQUIDATED DAMAGES IN ACCORDANCE WITH SECTION 108-03 OF THE STANDARD SPECIFICATION FOR NONCONFORMANCE WITH ANY REQUIREMENT AND/OR FOR EXCEEDING THE DURATION OF THE SHUTDOWN PERIOD.

4. THE COST OF PRUNING TREES TO INSTALL TRAFFIC SIGNAL HARDWARE AND THE MINOR PRUNING OF TREES TO OBTAIN SIGHT DISTANCE FOR TRAFFIC SIGNAL DEVICES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR VARIOUS TRAFFIC SIGNAL ITEMS AND NO SEPARATE PAYMENT WILL BE MADE.

   THE LIMITS FOR MINOR PRUNING OF TREES WILL BE DETERMINED SOLELY BY THE ENGINEER AND IS INTENDED FOR THE PRUNING OF BRANCHES APPROXIMATELY SIX (6) INCHES IN DIAMETER OR LESS. ALL PRUNING SHALL BE DONE AS DIRECTED BY THE ENGINEER AND IN A MANNER CONSISTENT WITH GOOD HORTICULTURAL PRACTICE.

5. RECORD PLAN DATA HAS BEEN USED IN PREPARATION OF THE TRAFFIC SIGNAL PLANS. THE CONTRACTOR SHALL FIELD VERIFY ANY INFORMATION SHOWN ON THE PLANS WITH ACTUAL FIELD CONDITIONS.

6. THE COST OF MODIFYING EXISTING PULL BOXES IN ADDITION TO LOCATING AND MODIFICATION ANY EXISTING CONDUIT RUNS TO ACCEPT NEW WORK SHALL BE INCLUDED IN THE COST OF VARIOUS SIGNAL ITEMS. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.

7. ALL SIGNAL EQUIPMENT SHALL BE PLACED IN A LOCATION THAT COMPLIES WITH THE NYS HIGH VOLTAGE PROXIMITY ACT. THIS INCLUDES, BUT IS NOT LIMITED TO, KEEPING ALL SIGNAL EQUIPMENT A MINIMUM OF 10 FT. FROM PRIMARY LINES, AND 2 FT. FROM SECONDARY AND ALL OTHER LINES. SEE STANDARD SHEET 680-17 FOR ADDITIONAL DETAILS.

CABLES AND WIRING:

1. THE CONTRACTOR SHALL IDENTIFY EVERY CABLE ENTERING ANY TRAFFIC CONTROL DEVICES; (CONTROLLER CABINET, PULLBOX AND POLES) BY FUNCTION AND DESTINATION TAG ATTACHED TO THE CABLE WITH EITHER A STAINLESS STEEL WIRE OR A PLASTIC OR NYLON LINE.

2. THE CONTRACTOR SHALL PROVIDE A SAMPLE OF THE SIGNAL CABLE MARKING TAGS TO BE USED TO THE ENGINEER FOR TSME APPROVAL.

SIGNAL POLES:

1. ALL NECESSARY HOLES IN THE SIGNAL POLE BELOW THE LOAD ATTACHMENT POINT AND GREATER THAN 11"16" IN DIAMETER SHALL BE MADE BY THE MANUFACTURER AND REINFORCED ACCORDING TO FABRICATION DETAILS AND CONTRACT DOCUMENTS.

2. ALL COUPLINGS AND BUSHINGS SHALL BE MECHANICALLY THREADED. COMPRESSION OR SLIP TYPE COUPLINGS OR BUSHINGS SHALL NOT BE ALLOWED.

PEDESTRIAN SIGNALS:

1. ALL PEDESTRIAN PUSH BUTTONS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS. THE COST TO BE INCLUDED IN THE BID PRICE FOR ITEM 680.81310209 - ACCESSIBLE PEDESTRIAN SIGNAL(APS) WITHOUT POLE.

2. ALL PEDESTRIAN PUSH BUTTONS SHALL BE LOCATED PARALLEL WITH THE APPROPRIATE CROSSWALK.

3. ALL PEDESTRIAN SIGNS SHALL BE 9 INCHES X 15 INCHES (R10-3E) REGARDLESS OF THE SIZE OF THE POLE THEY ARE INSTALLED ON. THE COST OF FURNISHING AND INSTALLING THESE SIGNS SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 680.81310209 - ACCESSIBLE PEDESTRIAN SIGNAL (APS) WITHOUT POLE.

4. PEDESTRIAN SIGNAL POLES SHALL BE EQUIPPED WITH AN APPROVED TRANSFORMER BASE FABRICATED IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATIONS SECTION 723-15.01.

5. AUDIBLE PEDESTRIAN SIGNAL/PUSHBUTTONS FOR MORE THAN ONE CROSSING THAT ARE LOCATED ON THE SAME POLE SHALL BE PROGRAMMED FOR ADDITIONAL CUSTOM SPEECH MESSAGING TO COMMUNICATE THE WALK INTERVAL. THEY SHALL PROVIDE A CLEAR MESSAGE THAT THE WALK INTERVAL IS IN EFFECT, AS WELL AS TO WHICH CROSSING IT APPLIES. THE MESSAGES SHALL BE PATTERNED AFTER THE MODEL: "MAIN ST. WALK SIGN IS ON TO CROSS MAIN ST."

SALVAGE OF TRAFFIC SIGNAL EQUIPMENT:

1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER TEN (10) WORKING DAYS IN ADVANCE FOR REMOVAL OF ANY TRAFFIC SIGNAL EQUIPMENT. THE ENGINEER SHALL REQUEST FROM THE TSME A LIST OF TRAFFIC SIGNAL EQUIPMENT TO BE SALVAGED FOR EACH LOCATION.

2. ITEMS TO BE SALVAGED SHALL INCLUDE, BUT ARE NOT LIMITED TO; SIGNAL POLES, CONTROLLERS, SIGNAL HEADS AND BRACKETS, SIGNAL BACK PLATES, SIGNAL DISCONNECTS, OVERHEAD SIGNS, PEDESTRIAN HEADS AND BRACKETS, PEDESTRIAN PUSH BUTTONS, AND TRAFFIC SIGNAL MANHOLE FRAMES AND COVERS.

3. THE ENGINEER WILL ASSESS ENGINEERING CHARGES FOR ANY TRAFFIC SIGNAL EQUIPMENT TO BE SALVAGED WHICH IS DAMAGED DUE TO CARELESSNESS BY THE CONTRACTOR.

4. THE CONTRACTOR SHALL RETURN ALL TRAFFIC SIGNAL EQUIPMENT THAT IS REMOVED TO THE MONROE COUNTY DEPARTMENT OF TRANSPORTATION.

MAINTENANCE OF NEW OR EXISTING TRAVEL SIGNALS:

1. THE CONTRACTOR SHALL NOTIFY THE MONROE COUNTY DEPARTMENT OF TRANSPORTATION MAINTENANCE THREE WORKING DAYS PRIOR TO ASSUMING MAINTENANCE, STARTING WORK IN THE AREA, OR DISTURBING CONDUIT OR LOOPS.

2. TRAFFIC SIGNAL CONTROLLER PROGRAMMING CHANGES SHALL ONLY BE PERFORMED BY MONROE COUNTY SIGNAL MAINTENANCE PERSONNEL.

3. THE CONTRACTOR SHALL OBTAIN PERMISSION FROM THE EIC PRIOR TO ENTERING ANY EXISTING TRAFFIC SIGNAL CONTROLLER CABINET, PERFORMING ANY WORK ON AN EXISTING TRAFFIC SIGNAL, OR ENERGIZING ANY NEW TRAFFIC SIGNAL INSTALLATION.

4. PEDESTRIAN TRAFFIC SIGNAL DISPLAYS CONTROLLING CLOSED CROSSWALKS SHALL BE COVERED OR REMOVED.

ITEM 680.83010005 - CLEANING AND PREPARATION OF EXISTING UNDERGROUND CONDUIT

1. THE SIGNAL PLANS PROVIDE FOR THE ENTIRE CLEANING AND PREPARATION OF THE EXISTING UNDERGROUND CONDUIT. NOT ALL THE CONDUIT WILL REQUIRE CLEANING AND PREPARATION. THE ENGINEER WILL ONLY MAKE PAYMENT FOR ANY CLEANING AND PREPARATION OF THE EXISTING UNDERGROUND CONDUIT WHERE THE CONTRACTOR ACTUALLY PERFORMS THE WORK ASSOCIATED WITH THIS ITEM.

ITEM 680.79000105 - REMOVE TRAFFIC SIGNAL INSTALLATION

1. INCLUDED IN ITEM 680.79000105 - REMOVE TRAFFIC SIGNAL INSTALLATION IS THE COMPLETE REMOVAL OF THE EXISTING PEDESTRIAN SIGNAL HEADS, BRACKETS, PUSH BUTTONS AND WIRING.

REV	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2			
1			

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If an item bearing the seal of an engineer, architect, landscape architect or land surveyor is altered, the altering engineer, architect, landscape architect or land surveyor shall affix to the item his/her seal and the notation "altered by" followed by his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO.
091001

PROJECT MANAGER
R. SCHMID

DRAWN BY
A. BENHUMEA

SCALE
AS SHOWN

ISSUE DATE
11/2018

LICENSED PROFESSIONAL ENGINEER
JESSE S. LOGAN JR.
STATE OF NEW YORK

FISHER ASSOCIATES
WWW.FISHERASSOC.COM

PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TRAFFIC SIGNAL NOTES

DRAWING NO.
TSN-1

SHEET 104 OF 110

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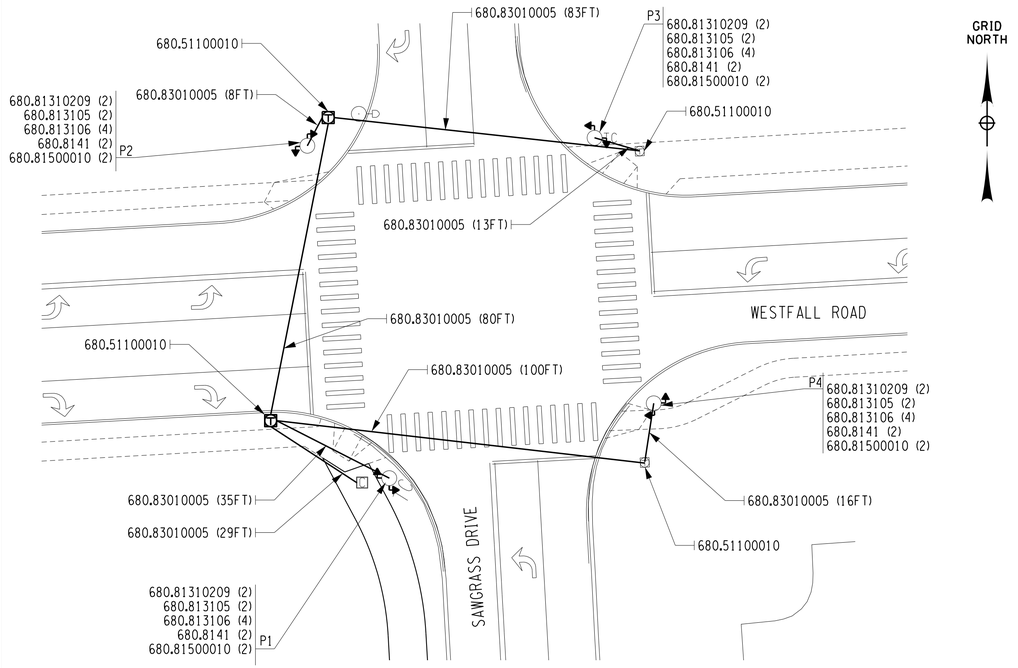


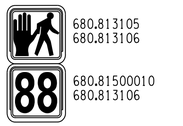
GRID NORTH

TABLE OF OPERATIONS		
FACE / PHASE	PED A A-A	PED B B-B
d1	HAND*	HAND
d3	HAND	HAND*
FLASHING OPERATION	DARK	DARK

*UPON ACTUATION OF A PEDESTRIAN PUSH BUTTON A "WALKING MAN" INDICATION FOLLOWED BY A FLASHING "HAND" INDICATION FOLLOWED BY THE STEADY "HAND" WILL BE DISPLAYED, AND COUNTDOWN TIMER IS INITIATED.

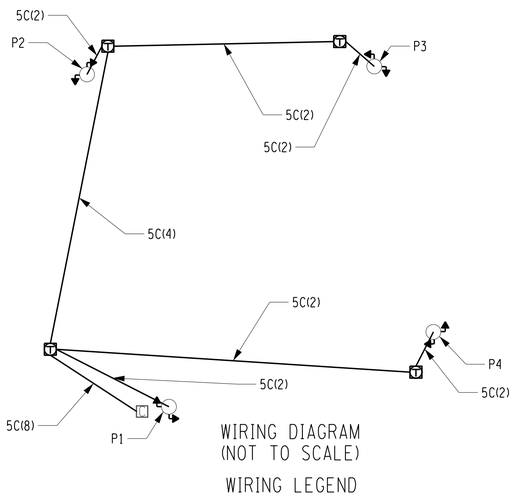
TRAFFIC SIGNAL ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
680.51100010	CLEAN EXISTING PULLBOX	EA	4
680.730514	SIGNAL CABLE, 5 CONDUCTORS, 14 AWG	LF	1,590
680.79000105	REMOVE TRAFFIC SIGNAL INSTALLATION	ELOC	1
680.81310209	ACCESIBLE PEDESTRIAN SIGNAL (APS) WITH OUT POLE	EACH	8
680.813105	PEDESTRIAN SIGNAL MODULE-12 INCH BI-MODAL, HAND/MAN SYMBOLS LED	EACH	8
680.813106	PEDESTRIAN SIGNAL SECTION-POLYCARBONATE, TYPE I, 12 INCH	EACH	16
680.8141	PEDESTRIAN SIGNAL BRACKET MOUNT ASSEMBLY	EACH	8
680.81500010	PEDESTRIAN COUNT-DOWN TIMER MODULE	EACH	8
680.83010005	CLEANING AND PREPARING EXISTING UNDERGROUND CONDUIT	LF	385



SIGNALS
A, B

SIGNAL HEAD DETAIL
(NOT TO SCALE)



WIRING DIAGRAM
(NOT TO SCALE)

WIRING LEGEND

5C = SIGNAL CABLE 5 CONDUCTOR, 14 AWG = ITEM 680.730514

TABLE OF INPUT WIRING				
WESTFALL ROAD AND SAWGRASS DR				COUNTY: MONROE
FUNCTION	DETECTOR NUMBER	TYPE	TERMINAL BOARD WIRING	REMARKS
1	PED A	PUSH BUTTON	7A, 7B	CROSSING SAWGRASS DRIVE
3	PED B	PUSH BUTTON	8A, 8B	CROSSING WESTFALL ROAD

PREFERENTIAL PHASING SEQUENCE

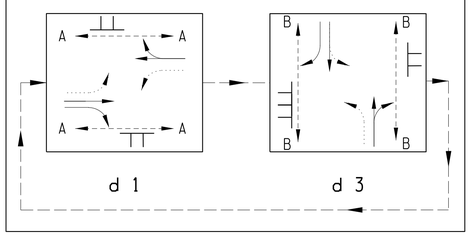


TABLE OF SWITCH PACKS

SIGNAL NO. 1 WESTFALL ROAD AT SAWGRASS DRIVE COUNTY: MONROE

SWITCH PACK	FUNCTION	FACE NO.S	FLASH PLUG COLOR	INDICATIONS	TERMINAL BOARD WIRING: TERMINAL	TERMINAL BOARD WIRING: WIRE COLOR CODE
SP 1	--	--	-	- - GRND WIRE	SP 1R SP 1Y SP 1G GRND BUS	_____ _____ _____ _____
SP 2	--	--	-	- - GRND WIRE	SP 2R SP 2Y SP 2G GRND BUS	_____ _____ _____ _____
SP 3	--	--	-	- - GRND WIRE	SP 3R SP 3Y SP 3G GRND BUS	_____ _____ _____ _____
SP 4	--	--	-	- - GRND WIRE	SP 4R SP 4Y SP 4G GRND BUS	_____ _____ _____ _____
SP 5	--	--	-	- - GRND WIRE	SP 5R SP 5Y SP 5G GRND BUS	_____ _____ _____ _____
SP 6	PED A d1	A-A		HAND MAN GRND WIRE	SP 6R SP 6G GRND BUS	14/5C-1,2,3,4-R 14/5C-1,2,3,4-G 14/5C-1,2,3,4-W
SP 7	PED B d3	B-B		HAND MAN GRND WIRE	SP 7R SP 7G GRND BUS	14/5C-5,6,7,8-R 14/5C-5,6,7,8-G 14/5C-5,6,7,8-W
SP 8	--	--	-	- - GRND WIRE	SP 8R SP 8Y SP 8G GRND BUS	_____ _____ _____ _____
SP 9	--	--	-	- - GRND WIRE	SP 9R SP 9Y SP 9G GRND BUS	_____ _____ _____ _____
SP 10	--	--	-	- - GRND WIRE	SP 10R SP 10Y SP 10G GRND BUS	_____ _____ _____ _____
SP 11	--	--	-	- - GRND WIRE	SP 11R SP 11Y SP 11G GRND BUS	_____ _____ _____ _____
SP 12	--	--	-	- - GRND WIRE	SP 12R SP 12Y SP 12G GRND BUS	_____ _____ _____ _____
SP 13	--	--	-	- - GRND WIRE	SP 13R SP 13Y SP 13G GRND BUS	_____ _____ _____ _____
SP 14	--	--	-	- - GRND WIRE	SP 14R SP 14Y SP 14G GRND BUS	_____ _____ _____ _____

14/19C-1-R/B
XX/XXC-X-X/X

AWG | NO. OF COND-UCTORS | CABLE NO. FOR THE GIVEN COND-UCTOR SIZE | COLOR OF WIRE | TRACER COLOR

COLOR: R-RED, O-ORANGE, G-GREEN, BL-BLUE, W-WHITE, B-BLACK

KEY FOR WIRE COLOR CODE

NOTES:
1. SEE DWG TSN-1 FOR TRAFFIC SIGNAL NOTES

20 0 20 40 60 80'

REV	DESCRIPTION	DATE	BY
7			
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2			
1			

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FA PROJECT NO.
091001
PROJECT MANAGER
R. SCHMID
DRAWN BY
A. BENHUMEA
SCALE
AS SHOWN
ISSUE DATE
11/2018

JEREMY S. LOGAN 19 LICENSED PROFESSIONAL ENGINEER STATE OF NEW YORK

FISHER ASSOCIATES
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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TRAFFIC SIGNAL PLAN
WESTFALL ROAD & SAWGRASS DRIVE

DRAWING NO.
TSP-1

SHEET 105 OF 110

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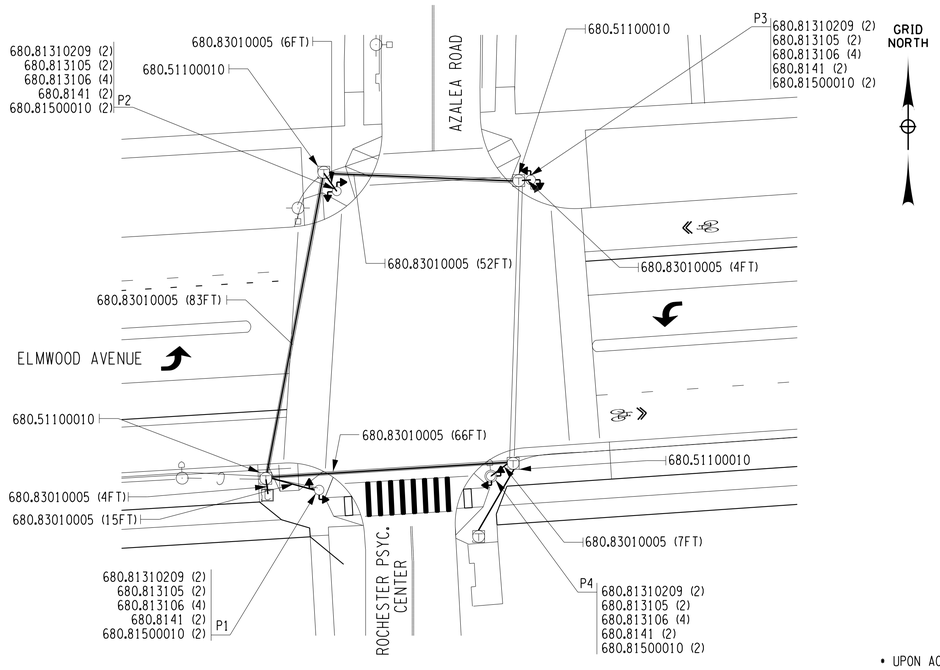
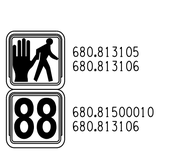


TABLE OF OPERATIONS		
FACE / PHASE	PED A A-A	PED B B-B
d1	HAND*	HAND
d3	HAND	HAND*
FLASHING OPERATION	DARK	DARK

* UPON ACTUATION OF A PEDESTRIAN PUSH BUTTON A "WALKING MAN" INDICATION FOLLOWED BY A FLASHING "HAND" INDICATION FOLLOWED BY THE STEADY "HAND" WILL BE DISPLAYED, AND COUNTDOWN TIMER IS INITIATED.

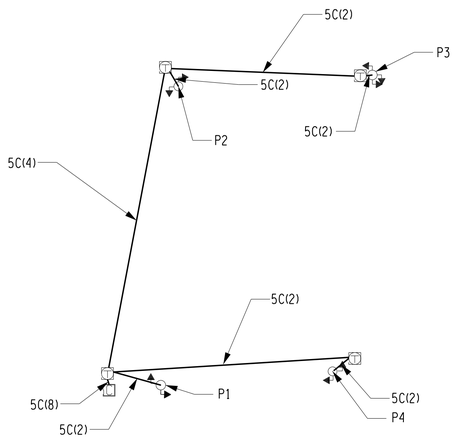
TRAFFIC SIGNAL ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
680.51100010	CLEAN EXISTING PULLBOX	EA	4
680.730514	SIGNAL CABLE, 5 CONDUCTORS, 14 AWG	LF	1,170
680.79000105	REMOVE TRAFFIC SIGNAL INSTALLATION	ELOC	1
680.81310209	ACCESIBLE PEDESTRIAN SIGNAL (APS) WITH OUT POLE	EACH	8
680.813105	PEDESTRIAN SIGNAL MODULE-12 INCH BI-MODAL, HAND/MAN SYMBOLS LED	EACH	8
680.813106	PEDESTRIAN SIGNAL SECTION-POLYCARBONATE, TYPE I, 12 INCH	EACH	16
680.8141	PEDESTRIAN SIGNAL BRACKET MOUNT ASSEMBLY	EACH	8
680.81500010	PEDESTRIAN COUNT-DOWN TIMER MODULE	EACH	8
680.83010005	CLEANING AND PREPARING EXISTING UNDERGROUND CONDUIT	LF	250



SIGNALS
A, B

SIGNAL HEAD DETAIL
(NOT TO SCALE)



WIRING DIAGRAM
(NOT TO SCALE)

WIRING LEGEND
5C = SIGNAL CABLE 5 CONDUCTOR, 14 AWG = ITEM 680.730514

TABLE OF INPUT WIRING				
ELMWOOD AVENUE AT AZALEA ROAD				COUNTY: MONROE
FUNCTION	DETECTOR NUMBER	TYPE	TERMINAL BOARD WIRING	REMARKS
1	PED A	PUSH BUTTON	7A, 7B	CROSSING AZALEA/ PSYC. CENTER
3	PED B	PUSH BUTTON	8A, 8B	CROSSING ELMWOOD

PREFERENTIAL PHASING SEQUENCE

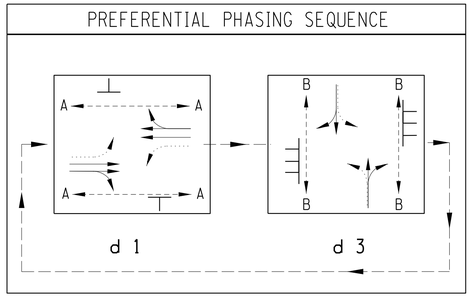


TABLE OF SWITCH PACKS

SIGNAL NO. 2 ELMWOOD AVENUE AT AZALEA ROAD COUNTY: MONROE

SWITCH PACK	FUNCTION	FACE NO.S	FLASH PLUG COLOR	INDICATIONS	TERMINAL BOARD WIRING: TERMINAL	TERMINAL BOARD WIRING: WIRE COLOR CODE
SP 1	--	--	-	- - - GRND WIRE	SP 1R SP 1Y SP 1G GRND BUS	_____ _____ _____ _____
SP 2	--	--	-	- - - GRND WIRE	SP 2R SP 2Y SP 2G GRND BUS	_____ _____ _____ _____
SP 3	--	--	-	- - - GRND WIRE	SP 3R SP 3Y SP 3G GRND BUS	_____ _____ _____ _____
SP 4	--	--	-	- - - GRND WIRE	SP 4R SP 4Y SP 4G GRND BUS	_____ _____ _____ _____
SP 5	--	--	-	- - - GRND WIRE	SP 5R SP 5Y SP 5G GRND BUS	_____ _____ _____ _____
SP 6	PED A d1	A-A		DON'T WALK WALK GRND WIRE	SP 6R SP 6G GRND BUS	14/5C-1,2,3,4-R 14/5C-1,2,3,4-G 14/5C-1,2,3,4-W
SP 7	PED B d3	B-B		DON'T WALK WALK GRND WIRE	SP 7R SP 7G GRND BUS	14/5C-4,5,6,7-R 14/5C-4,5,6,7-G 14/5C-4,5,6,7-W
SP 8	--	--	-	- - - GRND WIRE	SP 8R SP 8Y SP 8G GRND BUS	_____ _____ _____ _____
SP 9	--	--	-	- - - GRND WIRE	SP 9R SP 9Y SP 9G GRND BUS	_____ _____ _____ _____
SP 10	--	--	-	- - - GRND WIRE	SP 10R SP 10Y SP 10G GRND BUS	_____ _____ _____ _____
SP 11	--	--	-	- - - GRND WIRE	SP 11R SP 11Y SP 11G GRND BUS	_____ _____ _____ _____
SP 12	--	--	-	- - - GRND WIRE	SP 12R SP 12Y SP 12G GRND BUS	_____ _____ _____ _____
SP 13	--	--	-	- - - GRND WIRE	SP 13R SP 13Y SP 13G GRND BUS	_____ _____ _____ _____
SP 14	--	--	-	- - - GRND WIRE	SP 14R SP 14Y SP 14G GRND BUS	_____ _____ _____ _____

14/19C-1-R/B
XX/XXC-X-X/X

AWG | NO. OF CONDUCTORS | CABLE NO. FOR THE GIVEN CONDUCTOR SIZE | COLOR OF WIRE | TRACER COLOR

COLOR: R-RED, O-ORANGE, G-GREEN, BL-BLUE, W-WHITE, B-BLACK

KEY FOR WIRE COLOR CODE

NOTES:
1. SEE DWG TSN-1 FOR TRAFFIC SIGNAL NOTES

20 0 20 40 60 80'

REV	DESCRIPTION	DATE	BY
7			
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If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his/her seal and the notation "altered by" followed by his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO.
0911001
PROJECT MANAGER
R. SCHMID
DRAWN BY
A. BENHUMEA
SCALE
AS SHOWN
ISSUE DATE
11/2018

LICENSED PROFESSIONAL ENGINEER
JESSE S. LOGAN JR.
STATE OF NEW YORK

FISHER ASSOCIATES
WWW.FISHERASSOC.COM

PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TRAFFIC SIGNAL PLAN
ELMWOOD AVENUE & AZALEA ROAD

DRAWING NO.
TSP-2

SHEET 106 OF 110

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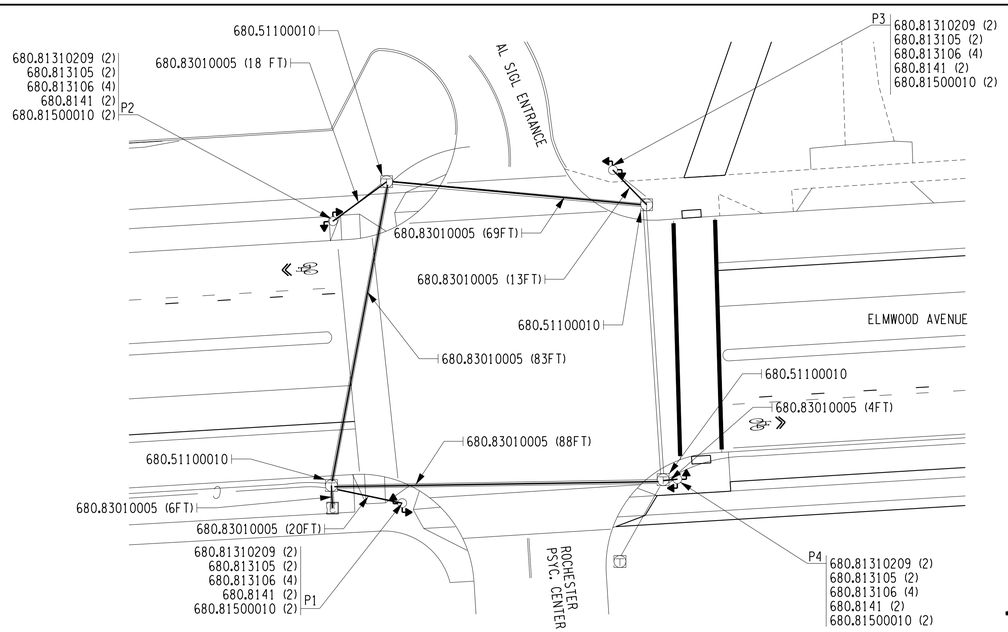


TABLE OF OPERATIONS		
FACE / PHASE	PED A	PED B
	A-A	B-B
d1	HAND•	HAND
d3	HAND	HAND•
FLASHING OPERATION	DARK	DARK

•UPON ACTUATION OF A PEDESTRIAN PUSH BUTTON A "WALKING MAN" INDICATION FOLLOWED BY A FLASHING "HAND" INDICATION FOLLOWED BY THE STEADY "HAND" WILL BE DISPLAYED, AND COUNTDOWN TIMER INITIATED.

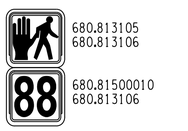
TABLE OF SWITCH PACKS

SIGNAL NO. 3 ELMWOOD AVE. & AL SIGL CENTER/PSYC. CENTER COUNTY: MONROE

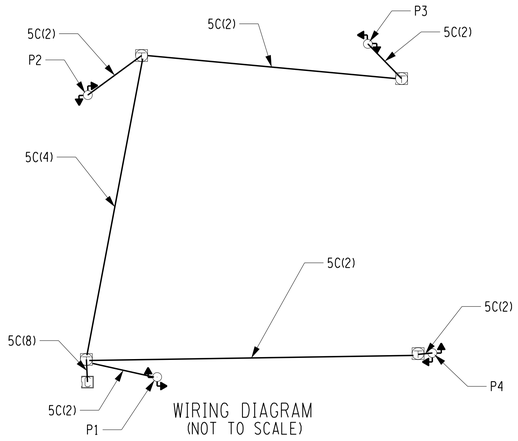
SWITCH PACK	FUNCTION	FACE NO.S	FLASH PLUG COLOR	INDICATIONS	TERMINAL BOARD WIRING	
					TERMINAL	WIRE COLOR CODE
SP 1	--	--	-	- / - / GRND WIRE	SP 1R SP 1Y SP 1G GRND BUS	----- ----- ----- -----
SP 2	--	--	-	- / - / GRND WIRE	SP 2R SP 2Y SP 2G GRND BUS	----- ----- ----- -----
SP 3	--	--	-	- / - / GRND WIRE	SP 3R SP 3Y SP 3G GRND BUS	----- ----- ----- -----
SP 4	--	--	-	- / - / GRND WIRE	SP 4R SP 4Y SP 4G GRND BUS	----- ----- ----- -----
SP 5	--	--	-	- / - / GRND WIRE	SP 5R SP 5Y SP 5G GRND BUS	----- ----- ----- -----
SP 6	PED A d1	A-A		DON'T WALK WALK GRND WIRE	SP 6R SP 6G GRND BUS	14/5C-1,2,3,4-R 14/5C-1,2,3,4-G 14/5C-1,2,3,4-W
SP 7	PED B d3	B-B		DON'T WALK WALK GRND WIRE	SP 7R SP 7G GRND BUS	14/5C-5,6,7,8-R 14/5C-5,6,7,8-G 14/5C-5,6,7,8-W
SP 8	--	--	-	- / - / GRND WIRE	SP 8R SP 8Y SP 8G GRND BUS	----- ----- ----- -----
SP 9	--	--	-	- / - / GRND WIRE	SP 9R SP 9Y SP 9G GRND BUS	----- ----- ----- -----
SP 10	--	--	-	- / - / GRND WIRE	SP 10R SP 10Y SP 10G GRND BUS	----- ----- ----- -----
SP 11	--	--	-	- / - / GRND WIRE	SP 11R SP 11Y SP 11G GRND BUS	----- ----- ----- -----
SP 12	--	--	-	- / - / GRND WIRE	SP 12R SP 12Y SP 12G GRND BUS	----- ----- ----- -----
SP 13	--	--	-	- / - / GRND WIRE	SP 13R SP 13Y SP 13G GRND BUS	----- ----- ----- -----
SP 14	--	--	-	- / - / GRND WIRE	SP 14R SP 14Y SP 14G GRND BUS	----- ----- ----- -----

TRAFFIC SIGNAL ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
680.51100010	CLEAN EXISTING PULLBOX	EA	4
680.730514	SIGNAL CABLE, 5 CONDUCTORS, 14 AWG	LF	1,315
680.79000105	REMOVE TRAFFIC SIGNAL INSTALLATION	ELOC	1
680.81310209	ACCESIBLE PEDESTRIAN SIGNAL (APS) WITH OUT POLE	EACH	8
680.813105	PEDESTRIAN SIGNAL MODULE-12 INCH BI-MODAL, HAND/MAN SYMBOLS LED	EACH	8
680.813106	PEDESTRIAN SIGNAL SECTION-POLYCARBONATE, TYPE I, 12 INCH	EACH	16
680.8141	PEDESTRIAN SIGNAL BRACKET MOUNT ASSEMBLY	EACH	8
680.81500010	PEDESTRIAN COUNT-DOWN TIMER MODULE	EACH	8
680.83010005	CLEANING AND PREPARING EXISTING UNDERGROUND CONDUIT	LF	320



SIGNALS
A, B
SIGNAL HEAD DETAIL
(NOT TO SCALE)



WIRING DIAGRAM
(NOT TO SCALE)

WIRING LEGEND

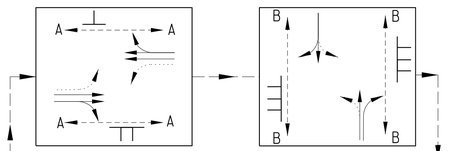
5C = =SIGNAL CABLE 5 CONDUCTOR, 14 AWG = ITEM 680.730514

TABLE OF INPUT WIRING

ELMWOOD AVE AT AL SIGL CENTER/PSYC. CENTER COUNTY: MONROE

FUNCTION	DETECTOR NUMBER	TYPE	TERMINAL BOARD WIRING	REMARKS
1	PED A	PUSH BUTTON	7A, 7B	CROSSING AL SIGL CENTER/ PSYC. CENTER
3	PED B	PUSH BUTTON	8A, 8B	CROSSING ELMWOOD

PREFERENTIAL PHASING SEQUENCE



14/19C-1-R/B
XX/XXC-X-X/X

AWG | NO. OF COND-UCTORS | CABLE NO. FOR THE GIVEN COND-UCTOR SIZE | COLOR OF WIRE | TRACER COLOR

COLOR: R-RED, O-ORANGE, G-GREEN, BL-BLUE, W-WHITE, B-BLACK

KEY FOR WIRE COLOR CODE

NOTES:
1. SEE DWG TSN-1 FOR TRAFFIC SIGNAL NOTES.

20 0 20 40 60 80'

REV	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2			
1			

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If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his/her seal and the notation "altered by" followed by his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO.
0911001
PROJECT MANAGER
R. SCHMID
DRAWN BY
A. BENHUMEA
SCALE
AS SHOWN
ISSUE DATE
11/2018

FISHER ASSOCIATES
WWW.FISHERASSOC.COM

PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TRAFFIC SIGNAL PLAN
ELMWOOD AVE. & AL SIGL CENTER/ROCHESTER PSYCH. CENTER

DRAWING NO.
TPS-3

SHEET 107 OF 110

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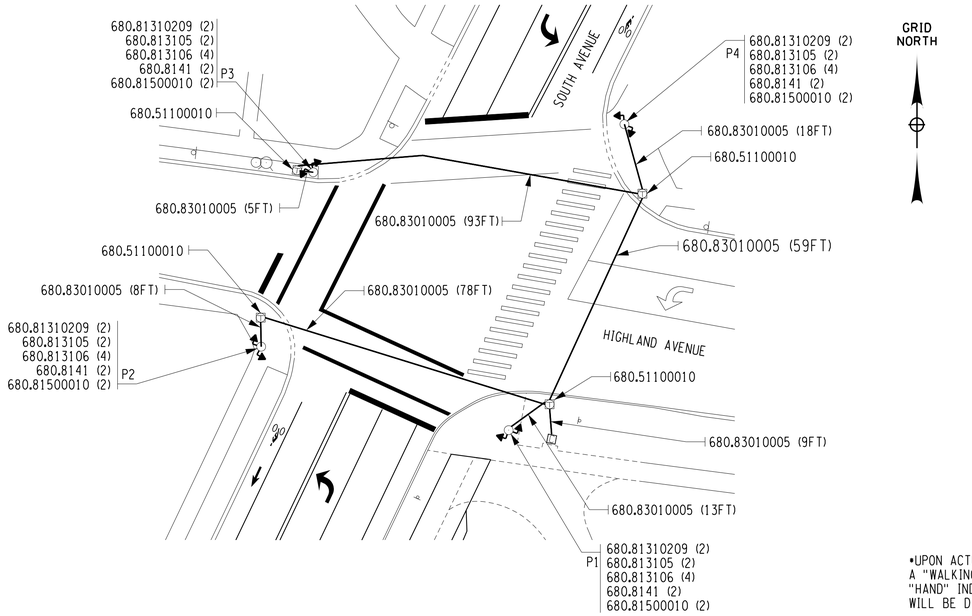


GRID NORTH

TABLE OF OPERATIONS		
FACE / PHASE	PED A A-A	PED B B-B
d1	HAND*	HAND
d3	HAND	HAND*
FLASHING OPERATION	DARK	DARK

*UPON ACTUATION OF A PEDESTRIAN PUSH BUTTON A "WALKING MAN" INDICATION FOLLOWED BY A FLASHING "HAND" INDICATION FOLLOWED BY THE STEADY "HAND" WILL BE DISPLAYED, AND COUNTDOWN TIMER IS INITIATED.

TRAFFIC SIGNAL ESTIMATE OF QUANTITIES

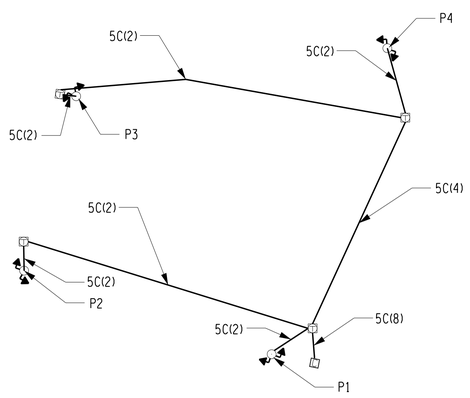
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
680.51100010	CLEAN EXISTING PULLBOX	EA	4
680.730514	SIGNAL CABLE, 5 CONDUCTORS, 14 AWG	LF	1,250
680.79000105	REMOVE TRAFFIC SIGNAL INSTALLATION	ELOC	1
680.81310209	ACCESIBLE PEDESTRIAN SIGNAL (APS) WITH OUT POLE	EACH	8
680.813105	PEDESTRIAN SIGNAL MODULE-12 INCH BI-MODAL, HAND/MAN SYMBOLS LED	EACH	8
680.813106	PEDESTRIAN SIGNAL SECTION-POLYCARBONATE, TYPE I, 12 INCH	EACH	16
680.8141	PEDESTRIAN SIGNAL BRACKET MOUNT ASSEMBLY	EACH	8
680.81500010	PEDESTRIAN COUNT-DOWN TIMER MODULE	EACH	8
680.83010005	CLEANING AND PREPARING EXISTING UNDERGROUND CONDUIT	LF	300

680.813105
680.813106

680.81500010
680.813106

SIGNALS
A, B

SIGNAL HEAD DETAILS
(NOT TO SCALE)



WIRING DIAGRAM
(NOT TO SCALE)

WIRING LEGEND

5C = SIGNAL CABLE 5 CONDUCTOR, 14 AWG = ITEM 608.730514

TABLE OF INPUT WIRING				
HIGHLAND AVENUE AT SOUTH AVENUE				COUNTY: MONROE
FUNCTION	DETECTOR NUMBER	TYPE	TERMINAL BOARD WIRING	REMARKS
1	PED A	PUSH BUTTON	7A, 7B	CROSSING HIGHLAND AVENUE
3	PED B	PUSH BUTTON	8A, 8B	CROSSING SOUTH AVENUE

PREFERENTIAL PHASING SEQUENCE

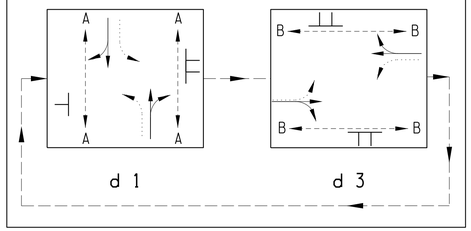


TABLE OF SWITCH PACKS						
SIGNAL NO. 4 HIGHLAND AVENUE AT SOUTH AVENUE					COUNTY: MONROE	
SWITCH PACK	FUNCTION	FACE NO.S	FLASH PLUG COLOR	INDICATIONS	TERMINAL BOARD WIRING	
					TERMINAL	WIRE COLOR CODE
SP 1	--	--	-	- - - GRND WIRE	SP 1R SP 1Y SP 1G GRND BUS	_____ _____ _____ _____
SP 2	--	--	-	- - - GRND WIRE	SP 2R SP 2Y SP 2G GRND BUS	_____ _____ _____ _____
SP 3	--	--	-	- - - GRND WIRE	SP 3R SP 3Y SP 3G GRND BUS	_____ _____ _____ _____
SP 4	--	--	-	- - - GRND WIRE	SP 4R SP 4Y SP 4G GRND BUS	_____ _____ _____ _____
SP 5	--	--	-	- - - GRND WIRE	SP 5R SP 5Y SP 5G GRND BUS	_____ _____ _____ _____
SP 6	PED A d1	A-A		DON'T WALK WALK GRND WIRE	SP 6R SP 6G GRND BUS	14/5C-1,2,3,4-R 14/5C-1,2,3,4-G 14/5C-1,2,3,4-W
SP 7	PED B d3	B-B		DON'T WALK WALK GRND WIRE	SP 7R SP 7G GRND BUS	14/5C-5,6,7,8-R 14/5C-5,6,7,8-G 14/5C-5,6,7,8-W
SP 8	--	--	-	- - - GRND WIRE	SP 8R SP 8Y SP 8G GRND BUS	_____ _____ _____ _____
SP 9	--	--	-	- - - GRND WIRE	SP 9R SP 9Y SP 9G GRND BUS	_____ _____ _____ _____
SP 10	--	--	-	- - - GRND WIRE	SP 10R SP 10Y SP 10G GRND BUS	_____ _____ _____ _____
SP 11	--	--	-	- - - GRND WIRE	SP 11R SP 11Y SP 11G GRND BUS	_____ _____ _____ _____
SP 12	--	--	-	- - - GRND WIRE	SP 12R SP 12Y SP 12G GRND BUS	_____ _____ _____ _____
SP 13	--	--	-	- - - GRND WIRE	SP 13R SP 13Y SP 13G GRND BUS	_____ _____ _____ _____
SP 14	--	--	-	- - - GRND WIRE	SP 14R SP 14Y SP 14G GRND BUS	_____ _____ _____ _____

14/19C-1-R/B
XX/XXC-X-X/X

AWG | NO. OF CONDUCTORS | CABLE NO. FOR THE GIVEN CONDUCTOR SIZE | COLOR OF WIRE | TRACER COLOR

COLOR: R-RED, O-ORANGE, G-GREEN, BL-BLUE, W-WHITE, B-BLACK

KEY FOR WIRE COLOR CODE

NOTES:
1. SEE DWG TSN-1 FOR TRAFFIC SIGNAL NOTES.

20 0 20 40 60 80'

REV	DESCRIPTION	DATE	BY
7			
6			
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3			
2			
1			

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FA PROJECT NO.
0911001

PROJECT MANAGER
R. SCHMID

DRAWN BY
A. BENHUMEA

SCALE
AS SHOWN

ISSUE DATE
11/2018

LICENSED PROFESSIONAL ENGINEER
JEREMY S. LOGAN
No. 092407
STATE OF NEW YORK

FISHER ASSOCIATES
WWW.FISHERASSOC.COM

PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TRAFFIC SIGNAL PLAN
SOUTH AVENUE & HIGHLAND AVENUE

DRAWING NO.
TPS-4

SHEET 108 OF 110

ITEM NO.	DESCRIPTION	UNIT	BRIGHTON QUANTITY	ROCHESTER QUANTITY	ADD ALT #1 BRIGHTON	ADD ALT #2 ROCHESTER	COMBINED TOTAL	FINAL TOTAL
201.06	CLEARING AND GRUBBING	LS	1	0			1	
202.120001	REMOVING EXISTING SUPERSTRUCTURES	LS	1	0			1	
203.01990108	IMPERVIOUS EMBANKMENT IN PLACE (SOIL-BENTONITE MIX)	CY	14	0			14	
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	2170	1637		300	4107	
203.03	EMBANKMENT IN PLACE	CY	471	435			906	
203.07	SELECT GRANULAR FILL	CY	14	0			14	
203.21	SELECT STRUCTURE FILL	CY	10	0			10	
205.0201	SEGREGATION AND STORAGE OF CONTAMINATED SOIL	LS	1	0			1	
205.0402	LABORATORY ANALYSIS FOR HAZARDOUS WASTE RCRA TOXICITY CHARACTERISTIC	EACH	1	0			1	
205.0403	LABORATORY ANALYSIS FOR IGNITABILITY	EACH	1	0			1	
205.0404	LABORATORY ANALYSIS FOR PH	EACH	1	0			1	
205.050201	DISPOSAL OF CONTAMINATED NON-HAZARDOUS WASTE SOIL	TON	167	0			167	
206.01	STRUCTURE EXCAVATION	CY	10	0			10	
206.0201	TRENCH AND CULVERT EXCAVATION	CY	31	0			31	
207.21	GEOTEXTILE SEPARATION	SY	1600	0			1600	
207.22	GEOTEXTILE DRAINAGE	SY	73	0			73	
209.1003	SEED AND MULCH - TEMPORARY	SY	4060	3740			7800	
209.110201	CHECK DAM (DITCH BOTTOM WIDTH 0.0 TO 3'), GRAVEL BAG - TEMPORARY	EACH	0	7			7	
209.13	SILT FENCE-TEMPORARY	LF	7908	4275			12183	
209.22	CONSTRUCTION ENTRANCE	SY	520	260			780	
209.23000009	TEMPORARY GROUND PROTECTION MAT	SF	2112	0			2112	
304.01940004	TRAILWAY TOP COURSE, STONE DUST	CY	123	0			123	
304.15	SUBBASE COURSE, OPTIONAL TYPE	CY	1305	874		175	2354	
418.7603	ASPHALT PAVEMENT JOINT ADHESIVE	LF	0	550			550	
520.60900002	SAWCUTTING CURB	LF	97	64			161	
594.01	TIMBER AND LUMBER	CF	0	0	770		770	
594.03	TREATED TIMBER AND LUMBER	CF	1300	0			1300	
595.50000018	SHEET-APPLIED WATERPROOFING MEMBRANE	SF	40	0			40	
603.051018	CORRUGATED STEEL PIPE (2-2/3 IN. X 1/2 IN.) CORRUGATIONS 12 INCH, 18 GAUGE	LF	42	0			42	
603.171016	GALVANIZED STEEL END SECTIONS-PIPE (2-2/3" X 1/2" CORRUGATIONS) 12 INCH DIAMETER, 16 GAUGE	EACH	4	0			4	
604.070401	ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES	EACH	0	2			2	
604.070402	ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES	EACH	1	0			1	
604.301911	RECTANGULAR DRAINAGE STRUCTURE TYPE S FOR #11 WELDED FRAME	LF	3.2	0			3.2	
605.0901	UNDERDRAIN FILTER TYPE 1	CY	7	0			7	
605.16030008	NON-PERFORATED PVC PIPE, 8" DIAMETER PIPE	LF	14	0			14	
605.98101218	SMOOTH INTERIOR PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN PIPE, 12 INCH DIAMETER	LF	42	0			42	
607.41010010	TEMPORARY PLASTIC BARRIER FENCE	LF	2369	996			3365	
607.65020010	SPLIT RAIL FENCE	LF	290	0			290	
608.000013	PLANT PRODUCTION QUALITY ADJUSTMENT TO HMA SIDEWALK ITEMS	QU	35	22			57	
608.0101	CONCRETE SIDEWALKS AND DRIVEWAYS	CY	87	312		100	499	
608.01030005	COLORED PORTLAND CEMENT CONCRETE SIDEWALK	CY	7	0			7	
608.020102	HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS ,AND VEGETATION CONTROL STRIPS	TON	689	430			#REF!	
608.20	SURFACE APPLIED DETECTABLE WARNING UNITS	SY	0	17.6			17.6	
608.21	EMBEDDED DETECTABLE WARNING UNITS	SY	11.5	6			17.5	
608.97000004	HELICAL ANCHOR FOR PEDESTRIAN BOARDWALK	EACH	40	0			40	
610.0501	FERTILIZER	LB	322	293		35	650	
610.10	COMPOST	CY	25	0			25	
610.1101	MULCH FOR PLANTING TYPE A, B & D - WOOD CHIPS AND SHREDDED BARK	CY	11	0			11	
610.13	WEED REMOVAL	SY	3900	3540		424	7864	
610.1401	TOPSOIL - REUSE ON-SITE MATERIALS	CY	340	141			481	
610.1403	TOPSOIL - LAWNS	CY	223	230		48	501	
610.1404	TOPSOIL - SPECIAL PLANTING MIX	CY	44	0			44	
610.15	PREPARATION OF SUBSOIL FOR TURF ESTABLISHMENT	SY	65	0			65	
610.1602	TURF ESTABLISHMENT - LAWNS	SY	3900	3540		424	7864	
610.19	WATERING VEGETATION	MGAL	22	20		3	45	
610.21	MOWING	SY	11700	10620		1272	23592	
611.0171	PLANTING - MAJOR DECIDUOUS TREES - 3 INCH CALIPER BALL & BURLAP, FIELD POTTED OR FIELD BOXED	EACH	4	7			11	
611.0211	PLANTING - MINOR DECIDUOUS TREES - SIZE AS SPECIFIED BALL & BURLAP, FIELD POTTED OR FIELD BOXED	EACH	7	0			7	

DESCRIPTION OF SHARES

THE TOWN OF BRIGHTON SHARE BEGINS AT THE SOUTH END OF THE PROJECT AND EXTENDS NORTHERLY TO THE BRIGHTON / CITY OF ROCHESTER TOWN LINE AT THE END OF ALIGNMENT "SJ" AT ELMWOOD AVENUE.

THE CITY OF ROCHESTER SHARE BEGINS AT ELMWOOD AVENUE AND EXTENDS NORTHERLY TO JOSEPH C. WILSON BLVD. AT THE NORTHERN END OF THE PROJECT.

REV	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2			
1			

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FA PROJECT NO.
0910001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
NONE

ISSUE DATE
11/2018

STATE OF NEW YORK * JOSEPH B. SCHMID * 072687 * LICENSED PROFESSIONAL ENGINEER

FISHER ASSOCIATES
WWW.FISHERASSOC.COM

PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
ESTIMATE OF QUANTITIES

DRAWING NO.
EQ-1

SHEET 109 OF 110

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11/16/2018
11:14:06 AM
TimD

ITEM NO.	DESCRIPTION	UNIT	BRIGHTON QUANTITY	ROCHESTER QUANTITY	ADD ALT #1 BRIGHTON	ADD ALT #2 ROCHESTER	COMBINED TOTAL	FINAL TOTAL
611.0381	PLANTING - CONIFEROUS TREES - 8 FOOT HEIGHT BALL & BURLA P, FIELD POTTED OR FIELD BOXED	EACH	4	0			4	
611.0412	PLANTING - DECIDUOUS SHRUBS - AS SPECIFIED CONTAINER OR BOX GROWN	EACH	57	0			57	
611.0711	PLANTING - HERBACEOUS PLANTS - AS SPECIFIED CONTAINER GROWN	EACH	25	0			25	
614.060102	TREE REMOVAL OVER 4 INCHES TO 6 INCHES DIAMETER BREAST HEI GHT - STUMPS CUT FLUSH	EACH	1	0			1	
614.060104	TREE REMOVAL OVER 4 INCHES TO 6 INCHES DIAMETER BREAST HEI GHT - STUMPS GRUBBED	EACH	21	2			23	
614.060202	TREE REMOVAL OVER 6 INCHES TO 12 INCHES DIAMETER BREAST HEI GHT - STUMPS CUT FLUSH	EACH	5	0			5	
614.060204	TREE REMOVAL OVER 6 INCHES TO 12 INCHES DIAMETER BREAST HEI GHT - STUMPS GRUBBED	EACH	24	0			24	
614.060302	TREE REMOVAL OVER 12 INCHES TO 18 INCHES DIAMETER BREAST HEI GHT - STUMPS CUT FLUSH	EACH	2	0			2	
614.060304	TREE REMOVAL OVER 12 INCHES TO 18 INCHES DIAMETER BREAST HEI GHT - STUMPS GRUBBED	EACH	12	0			12	
614.060402	TREE REMOVAL OVER 18 INCHES TO 24 INCHES DIAMETER BREAST HEI GHT - STUMPS CUT FLUSH	EACH	1	0			1	
614.060404	TREE REMOVAL OVER 18 INCHES TO 24 INCHES DIAMETER BREAST HEI GHT - STUMPS GRUBBED	EACH	1	0			1	
614.060502	TREE REMOVAL OVER 24 INCHES TO 36 INCHES DIAMETER BREAST HEI GHT - STUMPS CUT FLUSH	EACH	1	0			1	
615.99060104	LANDSCAPE BOULDERS, TYPE 1	EACH	6	0			6	
615.99060204	LANDSCAPE BOULDERS, TYPE 2	EACH	7	0			7	
616.16000024	FIBER ROLLS	LF	555	882			1437	
619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS	0.63	0.37			1	
619.04	TYPE III CONSTRUCTION BARRICADE	EACH	12	23			35	
620.02	STONE FILLING (FINE)	CY	26	0			26	
621.04	CLEANING DRAINAGE STRUCTURES	EACH	0	2			2	
624.0109	CONVENTIONALLY FORMED OR MACHINE FORMED CONCRETE GUTTERS TYPE BB	SF	0	150			150	
625.01	SURVEY OPERATIONS	LS	0.63	0.37			1	
625.05	STEEL PIN AND CAP RIGHT-OF-WAY MARKER	EACH	21	7			28	
635.0103	CLEANING AND PREPARATION OF PAVEMENT SURFACES - LINES	LF	0	9354			9354	
637.11	ENGINEER'S FIELD OFFICE - TYPE 1	MNTH	6.3	3.7			10	
637.34	OFFICE TECHNOLOGY AND SUPPLIES	DC	1260	740			2000	
645.5101	GROUND-MOUNTED SIGN PANELS WITHOUT Z-BARS	SF	75	150			225	
645.5102	GROUND-MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF, WITH Z-BARS	SF	10	104			114	
645.5202	GROUND-MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF, WITH Z-BARS, HIGH-VISIBILITY SHEETING	SF	21	36			57	
645.73000001	ORNAMENTAL SIGN	EACH	3	1			4	
645.81	TYPE A SIGN POSTS	EACH	16	63			79	
645.81020003	RETROREFELCTIVE SIGN POST STRIP	EACH	0	8			8	
645.8107	CONCRETE FOOTING FOR TYPE A SIGN POSTS	EACH	4	0			4	
645.85	POLE MOUNTED SIGN SUPPORT SYSTEM (BAND MOUNTED)	EACH	11	23			34	
647.31	RELOCATE SIGN PANEL, SIGN PANEL ASSEMBLY SIZE I (UNDER 30 SQUARE FEET)	EACH	0	7			7	
647.51	REMOVE AND DISPOSE SIGN PANEL, SIGN PANEL ASSEMBLY SIZE I (UNDER 30 SQUARE FEET)	EACH	0	3			3	
647.61	REM AND DISPOSE GROUND MOUNTED TYPE A SIGN SUPPORT(S), FDNS AND ANY ATTACHED SIGNS - SIZE I (UNDER 30 SQUARE FEET)	EACH	0	4			4	
655.1111	WELDED FRAME AND RETICULINE GRATE 11	EACH	1	0			1	
656.01	MISCELLANEOUS METALS	LB	395	0			395	
663.33	ADJUST EXISTING VALVE BOX ELEVATION	EACH	0	3			3	
680.51100010	CLEAN EXISTING PULLBOX	EA	4	12			16	
680.730514	SIGNAL CABLE, 5 CONDUCTORS, 14 AWG	LF	1,590	3735			5325	
680.79000105	REMOVE TRAFFIC SIGNAL INSTALLATION	ELOC	1	3			4	
680.81310209	ACCESSIBLE PEDESTRIAN SIGNAL (APS) WITHOUT POLE	EA	8	24			32	
680.813105	PEDESTRIAN SIGNAL MODULE - 12 INCH BI-MODAL, HAND/MAN SYMBOLS LED	EA	8	24			32	
680.813106	PEDESTRIAN SIGNAL SECTION - POLYCARBONATE, TYPE I, 12 INCH	EA	16	48			64	
680.8141	PEDESTRIAN SIGNAL BRACKET MOUNT ASSEMBLY	EA	8	24			32	
680.81500010	PEDESTRIAN COUNT-DOWN TIMER MODULE	EA	8	24			32	
680.83010005	CLEANING AND PREPARING EXISTING UNDERGROUND CONDUIT	LF	385	870			1255	
685.11	WHITE EPOXY REFLECTORIZED PAVEMENT STRIPES - 20 MILS	LF	1548	12347			13895	
685.12	YELLOW EPOXY REFLECTORIZED PAVEMENT STRIPES - 20 MILS	LF	0	10873			10873	
685.14	WHITE EPOXY REFLECTORIZED PAVEMENT SYMBOLS - 20 MILS	EACH	0	62			62	
697.03	FIELD CHANGE PAYMENT	DC	48195	28305			76500	
698.04	ASPHALT PRICE ADJUSTMENT	DC	1237	726			1963	
698.05	FUEL PRICE ADJUSTMENT	DC	80	46			126	
699.040001	MOBILIZATION	LS	0.63	0.37			1	

DESCRIPTION OF SHARES

THE TOWN OF BRIGHTON SHARE BEGINS AT THE SOUTH END OF THE PROJECT AND EXTENDS NORTHERLY TO THE BRIGHTON / CITY OF ROCHESTER TOWN LINE AT THE END OF ALIGNMENT "SJ" AT ELMWOOD AVENUE.

THE CITY OF ROCHESTER SHARE BEGINS AT ELMWOOD AVENUE AND EXTENDS NORTHERLY TO JOSEPH C. WILSON BLVD. AT THE NORTHERN END OF THE PROJECT.

REV	DESCRIPTION	DATE	BY
7			
6			
5			
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New York State Education Law Section 7209 states that it is a violation of law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor, to alter an item in any way.

If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his/her seal and his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO.
0911001

PROJECT MANAGER
R. SCHMID

DRAWN BY
C. PERKINS

SCALE
NONE

ISSUE DATE
11/2018

STATE OF NEW YORK * JOSEPH B. SCHMID * 072857 * LICENSED PROFESSIONAL ENGINEER

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PROJECT
"HIGHLAND CROSSING" - TRAIL PROJECT
TOWN OF BRIGHTON & CITY OF ROCHESTER
P.I.N. 4754.08
MONROE COUNTY, NEW YORK

TITLE OF DRAWING
ESTIMATE OF QUANTITIES

DRAWING NO.
EQ-2

SHEET 110 OF 110

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