TOWN OF WILMINGTON

COUNTY OF WINDHAM

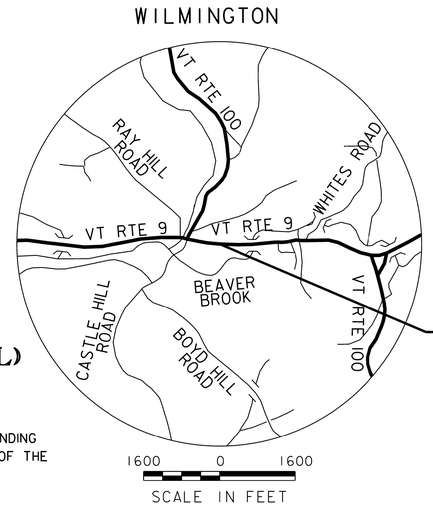
PROPOSED IMPROVEMENTS

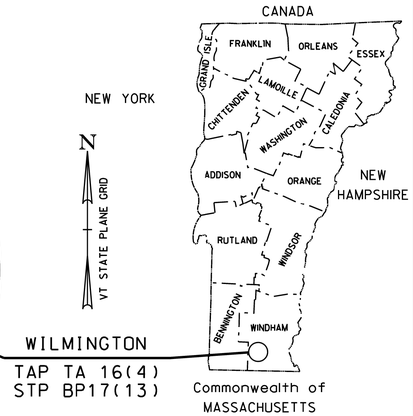
EAST MAIN STREET SIDEWALK (PRINCIPAL ARTERIAL)
TAP TA 16(4) - STP BP17(13)

PROJECT LOCATION: BEGINNING AT A POINT ON VT ROUTE 9 ACROSS FROM THE INTERSECTION WITH BEAVER STREET, AND EXTENDING EASTERLY ALONG VT ROUTE 9 FOR APPROXIMATELY 1300 FEET UNTIL REACHING THE WESTERN APPROACH OF THE BRIDGE OVER BEAVER BROOK.

LENGTH OF PROJECT: 1,284 FT = 0.24 MILES

PROJECT DESCRIPTION: WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES REPLACING CONCRETE SIDEWALK, NEW GRANITE CURB, DRIVE IMPROVEMENTS, INSTALLING A NEW SEWER LINE, STREETSCAPE ENHANCEMENTS TO INCLUDE LANDSCAPING AND FLAGSTONE RETAINING WALLS, AS WELL AS NEW SIGNING AND STRIPING FOR CROSSWALKS.





CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2018, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON APRIL 13, 2018 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

QUALITY ASSURANCE PROGRAM: LEVEL 3
SURVEYED BY : VHB SURVEYED DATE : DECEMBER 2016
DATUM VERTICAL: NAVD 1988 HORIZONTAL: NAD 1983 (11)

FINAL PLANS
MARCH 2022

vhb

BUREAU DIRECTOR :
PROJECT MANAGER : E.P. DETRICK, P.E.
PROJECT NAME : EAST MAIN STREET SIDEWALK
PROJECT NUMBER : TAP TA 16(4)-STP BP17(13)
SHEET 1 OF 37 SHEETS

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VAOT STANDARDS

B-5	SLOPE GRADING, EMBANKMENTS, MUCK	06-01-1994
B-71a	STANDARD FOR RESIDENTIAL DRIVES	04-07-2020
B-71b	STANDARD FOR COMMERCIAL DRIVES	04-07-2020
C-10	CURBING	02-11-2008
C-2A	PORTLAND CEMENT CONCRETE SIDEWALK DRIVE ENTRANCES WITH SIDEWALK ADJACENT TO CURB	10-14-2005
C-2B	PORTLAND CEMEMNT CONCRETE SIDEWALK DRIVE ENTRANCES WITH SIDEWALK AND GREEN STRIP	10-14-2005
C-3A	SIDEWALK RAMPS	04-07-2020
C-3B	SIDEWALK RAMPS AND MEDIAN ISLANDS	04-07-2020
E-10	ROLLED EROSION CONTROL PRODUCT, TYPE I	04-07-2020
E-12	STABILIZED CONSTRUCTION ENTRANCE	04-07-2020
E-14	INLET PROTECTION DEVICE, TYPE II	04-07-2020
E-121	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD	08-08-1995
E-191	PAVEMENT MARKING DETAILS	02-01-1999
T-1	TRAFFIC CONTROL GENERAL NOTES	04-25-2016
T-2	TRAFFIC SIGN GENERAL NOTES	04-07-2020
T-10	CONVENTIONAL ROADS CONSTRUCTION APPROACH SIGNING	08-06-2012
T-28	CONSTRUCTION SIGN DETAILS	08-06-2012
T-45	SQUARE TUBE SIGN POST AND ANCHOR	01-02-2013

WORK ZONE TRAFFIC CONTROL DETAILS

TEMPORARY CURB RAMPS	07-09-2017
PEDESTRIAN TRAFFIC CONTROL DEVICES	04-04-2018

vhb

PROJECT NAME: EAST MAIN STREET SIDEWALK
PROJECT NUMBER: TAP TA 16(4) - STP BP17(13)

FILE NAME: 57923IND.dgn
PROJECT LEADER: E.P. DETRICK
DESIGNED BY: C.K. FORD
INDEX OF SHEETS

PLOT DATE: 2/20/2020
DRAWN BY: C.K. FORD
CHECKED BY: E.P. DETRICK
SHEET 2 OF 37

GENERAL INFORMATION

SYMBOLOGY LEGEND NOTE

THE SYMBOLOGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLOGY. THE SYMBOLOGY IS USED FOR EXISTING & PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROJECT ANNOTATION, AS NOTED ON PROJECT PLAN SHEETS. THIS LEGEND SHEET COVERS THE BASICS. SYMBOLOGY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.

R.O.W. ABBREVIATIONS (CODES) & SYMBOLS

POINT	CODE	DESCRIPTION
	CH	CHANNEL EASEMENT
	CONST	CONSTRUCTION EASEMENT
	CUL	CULVERT EASEMENT
	D&C	DISCONNECT & CONNECT
	DIT	DITCH EASEMENT
	DR	DRAINAGE EASEMENT
	DRIVE	DRIVEWAY EASEMENT
	EC	EROSION CONTROL
	HWY	HIGHWAY EASEMENT
	I&M	INSTALL & MAINTAIN EASEMENT
	LAND	LANDSCAPE EASEMENT
	R&RES	REMOVE & RESET
	R&REP	REMOVE & REPLACE
	SR	SLOPE RIGHT
	UE	UTILITY EASEMENT
	(P)	PERMANENT EASEMENT
	(T)	TEMPORARY EASEMENT
■	BNDNS	BOUND SET
⧈	BNDNS	BOUND TO BE SET
◎	IPNF	IRON PIN FOUND
●	IPNS	IRON PIN TO BE SET
⊠	CALC	EXISTING ROW POINT
○	PROW	PROPOSED ROW POINT
[LENGTH]		LENGTH CARRIED ON NEXT SHEET

COMMON TOPOGRAPHIC POINT SYMBOLS

POINT	CODE	DESCRIPTION
	APL	BOUND APPARENT LOCATION
	BM	BENCHMARK
	BND	BOUND
	CB	CATCH BASIN
	COMB	COMBINATION POLE
	DITHR	DROP INLET THROATED DNC
	EL	ELECTRIC POWER POLE
	FPOLE	FLAGPOLE
	GASFIL	GAS FILLER
	GP	GUIDE POST
	GSO	GAS SHUT OFF
	GUY	GUY POLE
	GUYW	GUY WIRE
	GV	GATE VALVE
	H	TREE HARDWOOD
	HCTRL	CONTROL HORIZONTAL
	HVCTRL	CONTROL HORIZ. & VERTICAL
	HYD	HYDRANT
	IP	IRON PIN
	IPIPE	IRON PIPE
	LI	LIGHT - STREET OR YARD
	MB	MAILBOX
	MH	MANHOLE (MH)
	MM	MILE MARKER
	PM	PARKING METER
	PMK	PROJECT MARKER
	POST	POST STONE/WOOD
	RRSIG	RAILROAD SIGNAL
	RRSL	RAILROAD SWITCH LEVER
	S	TREE SOFTWOOD
	SAT	SATELLITE DISH
	SHRUB	SHRUB
	SIGN	SIGN
	STUMP	STUMP
	TEL	TELEPHONE POLE
	TIE	TIE
	TSIGN	SIGN W/DOUBLE POST
	VCTRL	CONTROL VERTICAL
	WELL	WELL
	WSO	WATER SHUT OFF

THESE ARE COMMON VAOT SURVEY POINT SYMBOLS FOR EXISTING FEATURES, ALSO USED FOR PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROPOSED ANNOTATION.

PROPOSED GEOMETRY CODES

CODE	DESCRIPTION
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
CC	CENTER OF CURVE
PT	POINT OF TANGENCY
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
POB	POINT OF BEGINNING
POE	POINT OF ENDING
STA	STATION PREFIX
AH	AHEAD STATION SUFFIX
BK	BACK STATION SUFFIX
D	CURVE DEGREE OF (100FT)
R	CURVE RADUIS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE

UTILITY SYMBOLOGY

UNDERGROUND UTILITIES

- UGU — UTILITY (GENERIC-UNKNOWN)
- UT — TELEPHONE
- UE — ELECTRIC
- UC — CABLE (TV)
- UEC — ELECTRIC+CABLE
- UET — ELECTRIC+TELEPHONE
- UCT — CABLE+TELEPHONE
- UECT — ELECTRIC+CABLE+TELEP.
- G — GAS LINE
- W — WATER LINE
- S — SANITARY SEWER (SEPTIC)

ABOVE GROUND UTILITIES (AERIAL)

- AGU — UTILITY (GENERIC-UNKNOWN)
- T — TELEPHONE
- E — ELECTRIC
- C — CABLE (TV)
- EC — ELECTRIC+CABLE
- ET — ELECTRIC+TELEPHONE
- AER E&T — ELECTRIC+TELEPHONE
- CT — CABLE+TELEPHONE
- ECT — ELECTRIC+CABLE+TELEP.
- UTILITY POLE GUY WIRE

PROJECT CONSTRUCTION SYMBOLOGY

PROJECT DESIGN & LAYOUT SYMBOLOGY

- CZ — CLEAR ZONE
- PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

- TOP OF CUT SLOPE
- TOE OF FILL SLOPE
- STONE FILL
- BOTTOM OF DITCH ℄
- CULVERT PROPOSED
- STRUCTURE SUBSURFACE
- PDF — PDF — PROJECT DEMARCATION FENCE
- BF — BF — BARRIER FENCE
- TREE PROTECTION ZONE (TPZ)
- STRIPING LINE REMOVAL
- SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLOGY

BOUNDARY LINES

- TOWN LINE — TOWN BOUNDARY LINE
- COUNTY LINE — COUNTY BOUNDARY LINE
- STATE LINE — STATE BOUNDARY LINE
- PROPOSED STATE R.O.W. (LIMITED ACCESS)
- PROPOSED STATE R.O.W.
- STATE ROW (LIMITED ACCESS)
- STATE ROW
- TOWN ROW
- PERMANENT EASEMENT LINE (P)
- TEMPORARY EASEMENT LINE (T)
- SURVEY LINE
- P/L — PROPERTY LINE (P/L)
- SR SR SR — SLOPE RIGHTS
- 6f — 6f — 6F PROPERTY BOUNDARY
- 4f — 4f — 4F PROPERTY BOUNDARY
- HAZ — HAZ — HAZARDOUS WASTE

EPSC LAYOUT PLAN SYMBOLOGY

EPSC MEASURES

- FILTER CURTAIN
- SILT FENCE
- SILT FENCE WOVEN WIRE
- CHECK DAM
- DISTURBED AREAS REQUIRING RE-VEGETATION
- EROSION MATTING

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLOGY

ENVIRONMENTAL RESOURCES

- WETLAND BOUNDARY
- RIPARIAN BUFFER ZONE
- WETLAND BUFFER ZONE
- SOIL TYPE BOUNDARY
- T&E — THREATENED & ENDANGERED SPECIES
- HAZ — HAZ — HAZARDOUS WASTE AREA
- AG — AGRICULTURAL LAND
- HABITAT — FISH & WILDLIFE HABITAT
- FLOOD PLAIN — FLOOD PLAIN
- OHW — ORDINARY HIGH WATER (OHW)
- STORM WATER
- USDA FOREST SERVICE LANDS
- WILDLIFE HABITAT SUIT/CONN

ARCHEOLOGICAL & HISTORIC

- ARCH — ARCHEOLOGICAL BOUNDARY
- HISTORIC DIST — HISTORIC DISTRICT BOUNDARY
- HISTORIC — HISTORIC AREA
- (H) — HISTORIC STRUCTURE

CONVENTIONAL TOPOGRAPHIC SYMBOLOGY

EXISTING FEATURES

- ROAD EDGE PAVEMENT
- ROAD EDGE GRAVEL
- DRIVEWAY EDGE
- DITCH
- FOUNDATION
- FENCE (EXISTING)
- FENCE WOOD POST
- FENCE STEEL POST
- GARDEN
- ROAD GUARDRAIL
- RAILROAD TRACKS
- CULVERT (EXISTING)
- STONE WALL
- WALL
- WOOD LINE
- BRUSH LINE
- HEDGE
- BODY OF WATER EDGE
- LEDGE EXPOSED

PROJECT NAME: EAST MAIN STREET SIDEWALK
PROJECT NUMBER: TAP TA 16(4) - STP BP17(13)

FILE NAME: 57923_legend.dgn
PROJECT LEADER: E.P. DETRICK
DESIGNED BY: VTRANS
CONVENTIONAL SYMBOLOGY LEGEND SHEET

PLOT DATE: 2/20/2020
DRAWN BY: VTRANS
CHECKED BY: E.P. DETRICK

GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2018, AND ITS LATEST REVISIONS, AND SUCH SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THE FINAL CONTRACT DOCUMENTS.
2. PER ADA GUIDELINES, SIDEWALK CROSS SLOPES SHALL NOT EXCEED 2%.
3. ANY WASTE MATERIAL SHALL BE REMOVED AND HAULED TO A FACILITY PREVIOUSLY APPROVED BY THE VT DEC.

CONSTRUCTION NOTES

1. SAW CUTTING OF PAVEMENT AND SIDEWALK SHALL BE INCIDENTAL TO SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY) AND PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH, RESPECTIVELY. NO SEPARATE PAYMENT WILL BE MADE.
2. REMOVAL OF EXISTING CONCRETE SIDEWALKS AND DRIVEWAY WILL BE PAID AS ITEM 203.16 - SOLID ROCK EXCAVATION.
3. IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, GROUNDWATER, AND OTHER MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECT MATERIAL TO AVOID FURTHER SPREADING OF THE MATERIAL, AND SHALL NOTIFY THE RESIDENT ENGINEER IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.
4. CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION AS PER THE ANR LOW RISK HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL TO PREVENT ADVERSE IMPACTS TO OFF SITE AREAS, AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY, AT NO COST TO OWNER.
5. ALL EXISTING CURB WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND REPLACED AS SHOWN IN PLANS. GRANITE CURB SHALL BE SALVAGED TO THE TOWN. CONCRETE CURB SHALL BE DISPOSED OF BY THE CONTRACTOR.
6. ALL DRIVE ENTRANCES SHALL EITHER BE TYPE 2 AS SHOWN ON STANDARD C-2A OR TYPE 6 AS SHOWN ON STANDARD C-2B, AS APPROPRIATE.
7. CONCRETE DRIVEWAY SHALL BE RECONSTRUCTED WITH CONCRETE, CLASS B. REINFORCING FOR CONCRETE DRIVE SHALL BE LEVEL 1, EPOXY COATED, AND SHALL MEET THE REQUIREMENTS OF SECTION 507. PAYMENT FOR CONCRETE WILL BE MADE UNDER ITEM 541.25, "CONCRETE, CLASS B", AND PAYMENT FOR REINFORCING WILL BE MADE UNDER ITEM 507.11, "REINFORCING STEEL, LEVEL I".
8. SLOPE ROUNDING: ALL CUT SLOPES TO BE ROUNDED IN ACCORDANCE WITH STANDARD SHEET B - 5.
9. REMOVAL OF THE EXISTING STONE WALL AT 36 EAST MAIN STREET SHALL BE PAID FOR UNDER ITEM 203.15 "COMMON EXCAVATION". RECONSTRUCTION OF THE WALL SHALL BE PAID FOR UNDER ITEM 602.20 "DRY MASONRY".
10. REMOVAL OF THE EXISTING CONCRETE STEPS AND HANDRAILS SHALL BE PAID FOR UNDER ITEM 203.15 "COMMON EXCAVATION".

RETAINING WALL NOTES:

1. THE CONTRACTOR SHALL DESIGN AND FURNISH A DRY STACKED, FLAT FLAG STONE RETAINING WALL AND CONCRETE STEPS WITH HANDRAIL EXTENSIONS IN ACCORDANCE WITH THESE PLANS. SHOP DRAWINGS OF THE RETAINING WALL SHALL BE SUBMITTED TO THE RESIDENT ENGINEER FOR REVIEW AND APPROVAL. PLAN DETAILS ARE SHOWN FOR ESTIMATING PURPOSES ONLY.
2. END OF COPING NOT SHOWN ON PLAN AND ELEVATION VIEWS.
3. ACTUAL WALL ALIGNMENT AND LIMITS TO BE DETERMINED IN THE FIELD.
4. UTILITY POLES AND/OR OTHER FACILITIES REQUIRED WITHIN THE WALL LIMITS SHALL NOT BE DRIVEN OR AUGERED THROUGH GEOSYNTHETIC REINFORCEMENT. THE IMPACT OF UTILITY POLES AND/OR OTHER FACILITIES ON WALL REINFORCEMENT SHALL BE ADDRESSED IN THE WALL DESIGN.

UTILITY NOTES

1. THE LOCATIONS, SIZES, AND TYPES OF EXISTING UTILITIES ARE SHOWN AS AN APPROXIMATE REPRESENTATION ONLY. THE OWNER OR DESIGN ENGINEER HAVE NOT INDEPENDENTLY VERIFIED ALL OF THIS INFORMATION AS SHOWN ON THE PLANS. THE UTILITY INFORMATION SHOWN DOES NOT GUARANTEE THE ACTUAL EXISTENCE, SERVICEABILITY, OR OTHER DATA CONCERNING THE UTILITIES, NOR DOES IT GUARANTEE AGAINST THE POSSIBILITY THAT ADDITIONAL UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THE PLANS. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND DETERMINE THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES AND, SHALL CONFIRM THAT THERE ARE NO INTERFERENCES WITH EXISTING UTILITIES AND THE PROPOSED UTILITY ROUTES, INCLUDING ROUTES WITHIN THE PUBLIC RIGHTS OF WAY.
2. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, OR EXISTING CONDITIONS DIFFER FROM THOSE SHOWN SUCH THAT THE WORK CANNOT BE COMPLETED AS INTENDED, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED AND THE INFORMATION FURNISHED IN WRITING TO THE RESIDENT ENGINEER FOR THE RESOLUTION OF THE CONFLICT.
3. SET CATCH BASIN RIMS, AND INVERTS OF SEWERS, DRAINS, AND DITCHES IN ACCORDANCE WITH ELEVATIONS ON THE PLANS, CROSS SECTIONS AND DRAINAGE NOTES.
4. RIM ELEVATIONS FOR DRAIN AND SEWER MANHOLES, WATER VALVE COVERS, GAS GATES, ELECTRIC AND TELEPHONE PULL BOXES, AND MANHOLES, AND OTHER SUCH ITEMS, ARE APPROXIMATE AND SHALL BE SET/RESET AS FOLLOWS:
   A. PAVEMENTS AND CONCRETE SURFACES: FLUSH
   B. ALL SURFACES ALONG ACCESSIBLE ROUTES: FLUSH
   C. LANDSCAPE, LOAM AND SEED, AND OTHER EARTH SURFACE AREAS: ONE INCH ABOVE SURROUNDING AREA AND TAPER EARTH TO THE RIM ELEVATION.
5. ALL DRAINAGE AND SANITARY STRUCTURE INTERIOR DIAMETERS (4' MIN.) SHALL BE VERIFIED BY THE MANUFACTURER BASED ON THE PIPE CONFIGURATIONS SHOWN ON THESE PLANS AND LOCAL MUNICIPAL STANDARDS.
6. ALL CONNECTIONS BETWEEN PRECAST DRAINAGE STRUCTURES AND NEW DRAINAGE PIPES SHALL BE A BOOTED CONNECTION. CORING AND BOOTS WILL BE INCIDENTAL TO THE PIPE.
7. CONTRACTOR IS RESPONSIBLE FOR ADJUSTING ALL CURB STOPS, WATER VALVES, MANHOLES, & DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS TO THE FINAL GRADE ELEVATION.
8. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL BURIED AND AERIAL UTILITIES AND POLES PRIOR TO STARTING WORK. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY OWNERS TO CONFIRM ACTUAL LOCATIONS PRIOR TO CONSTRUCTION.
9. ACT NO. 86 OF 1987 (30 VSA CHAPTER 86) ("DIG SAFE") REQUIRES THAT NOTICE BE GIVEN PRIOR TO MAKING AN EXCAVATION. IT IS SUGGESTED THAT THE CONTRACTOR TELEPHONE 1-888-344-7233 AT LEAST 48 HOURS BEFORE, AND NOT MORE THAN 30 DAYS BEFORE, BEGINNING ANY EXCAVATION AT ANY LOCATION. NOTE THAT TOWN OF WILMINGTON AND VTRANS WILL NOT BE NOTIFIED BY DIG SAFE AND MUST BE CONTACTED SEPARATELY.
10. PROPOSED SEWER LINES RUN ADJACENT TO HEAVY TRUCK TRAFFIC. CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION TO ENSURE STABILITY OF THE ROAD DURING CONSTRUCTION OF SEWER MAIN.

SURVEY NOTES

1. THE EXISTING CONDITIONS SHOWN ON THIS PLAN ARE BASED UPON ACTUAL ON-THE-GROUND SURVEY PERFORMED BY VHB IN SEPTEMBER 2016.
2. BEARINGS SHOWN ARE BASED ON THE VERMONT STATE PLAN COORDINATE SYSTEM UTILIZING NAD83(2011), AS ESTABLISHED FROM OUR GPS OBSERVATIONS AT THE SITE.
3. CONTOURS (1' MINORS, 5' MAJORS) AND ELEVATIONS SHOWN ARE BASED UPON THE NAVD 1988 VERTICAL DATUM, ESTABLISHED FROM OUR GPS OBSERVATIONS AT THE SITE.
4. NO ATTEMPT WAS MADE TO IDENTIFY AND / OR LOCATE ANY EASEMENTS EXCEPT PUBLIC ROAD RIGHTS-OF-WAY AS SHOWN.
5. PARCEL LINES SHOWN ARE BASED SOLELY ON VCGI TAX PARCEL INFORMATION WITH THE ASSISTANCE OF THE TOWN OF WILMINGTON ONLINE TAX MAP.
6. RECORD OWNERSHIP INFORMATION SHOWN WAS PROVIDED BY THE TOWN OF WILMINGTON AND BOOK, PAGE, REFERENCES ARE TO THE WILMINGTON LAND RECORDS.
7. RIM ELEVATIONS SHOWN (S) ARE FROM ACTUAL GROUND SURVEY BY VHB IN DECEMBER OF 2016 AND INVERT ELEVATIONS SHOWN (P) ARE PER PLAN REF. NO. 1

RIGHT-OF-WAY NOTES:

BELOW IS A SUMMARY OF HOW ROUTE 9 IS DEPICTED:

1. NO OFFICIAL ROW LAYOUT WAS FOUND FOR VERMONT ROUTE 9.
2. A THREE ROD RIGHT-OF-WAY WAS ASSUMED PER VERMONT 19 V.S.A. SECTION 32 AND PLAN REFERENCE 3.
3. THE ROW LOCATION WAS SET UTLIZING DATA COLLECTED BY VHB IN DECEMBER OF 2016 AND PLAN REF. NO. 3.
4. SAID PLAN WAS USED TO SET THE LOCATION OF BEGIN (PC) AND END (PT) OF CURVES.
5. THE SURVEYED CENTERLINE LOCATION OF TRAVELED WAY WAS USED TO CONSTRUCT TANGENTS AND CURVE GEOMETRY OF THE ALIGNMENT.
6. THE 4"X4" CONCRETE BOUND, AT THE SOUTH EAST OF THE BOYD PARCEL, MATCHED REASONABLY WELL AND WAS HELD AT THE WESTERLY END OF THE PROJECT.
7. NO IN-DEPTH ADJOINING DEED RESEARCH WAS PERFORMED WHICH MAY RESULT IN A DIFFERING SOLUTION OF RIGHT-OF-WAY LOCATION.

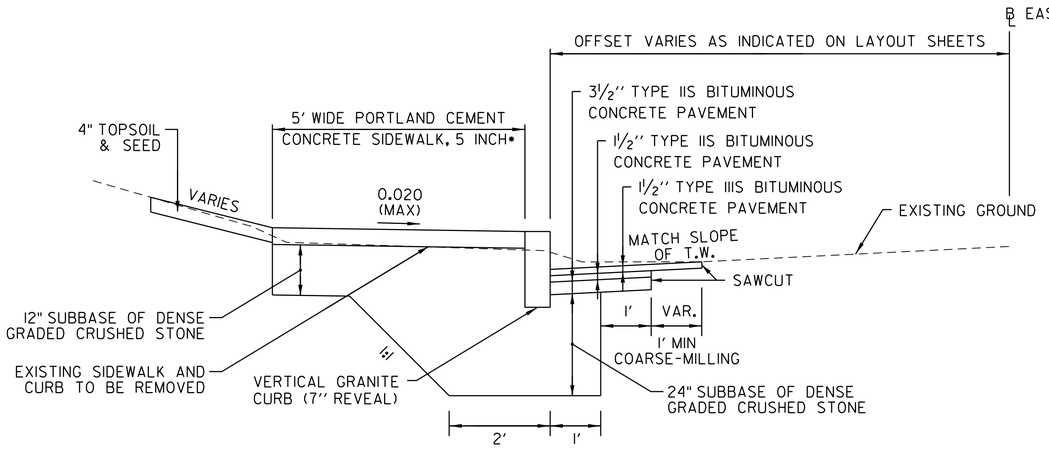
PLAN REFERENCES

1. "CONTRACT NO. 2 WASTEWATER COLLECTION SYSTEM WILMINGTON, VERMONT: "EAST & WEST MAIN STREET" PREPARED BY EBERHARD ENGINEERING, P.C. DATED JULY 1985. JOB NO. 8-3-2
2. "WILMINGTON WATER DISTRICT: DISTRIBUTION MAIN PLAN AND PROFILE" PREPARED BY HARRINGTON ENGINEERING, INC LAST REVISED OCTOBER 30TH, 1996. PROJECT NO. 1224
3. VTRANS RIGHT OW WAY PLAN VERMONT ROUTE 9 "WILMINGTON VILLAGE MAIN STREET" PIN# 99R799, DATED DECEMBER 11TH, 1933

PROJECT NAME: EAST MAIN STREET SIDEWALK
PROJECT NUMBER: TAP TA 16(4) - STP BPI7(13)

FILE NAME: 57923_Notes.dgn
PROJECT LEADER: E.P. DETRICK
DESIGNED BY: B.M. ROBERTS
GENERAL NOTES SHEET

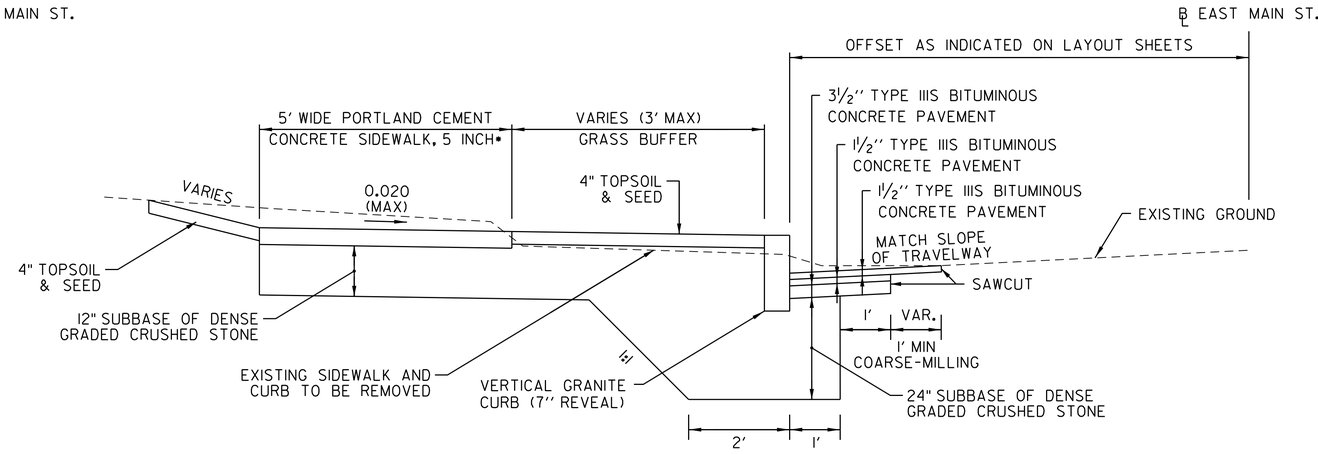
PLOT DATE: 2/20/2020
DRAWN BY: B.M. ROBERTS
CHECKED BY: E.P. DETRICK
SHEET 4 OF 37



CURB AND SIDEWALK ADJACENT TO ROAD

N.T.S.
STA. 1+30 - 11+18, LT
STA. 6+30 - 6+77, RT
STA. 7+50 - 7+68, RT
STA. 13+65 - 13+93, RT
STA. 14+03 - 14+14, LT

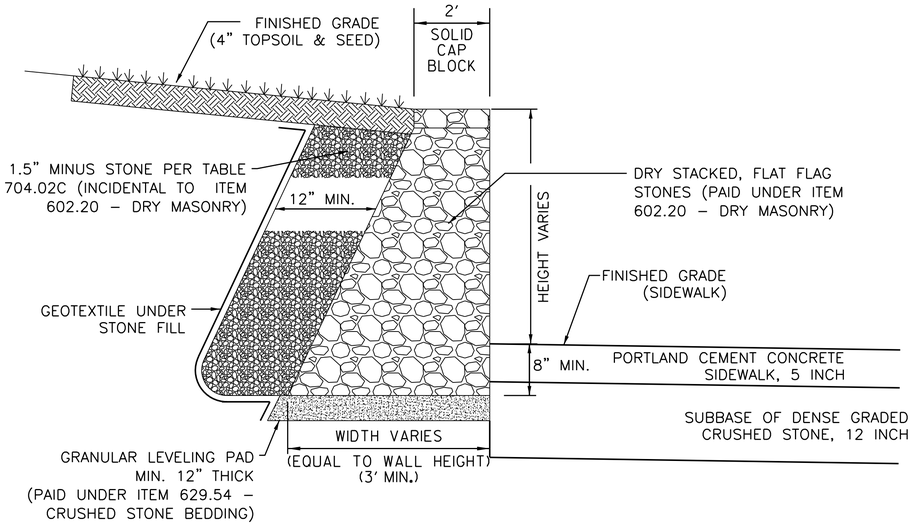
•PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH SHALL BE USED AT COMMERCIAL DRIVES



CURB AND SIDEWALK WITH GREEN STRIP

N.T.S.
STA. 11+18 - 14+03, LT

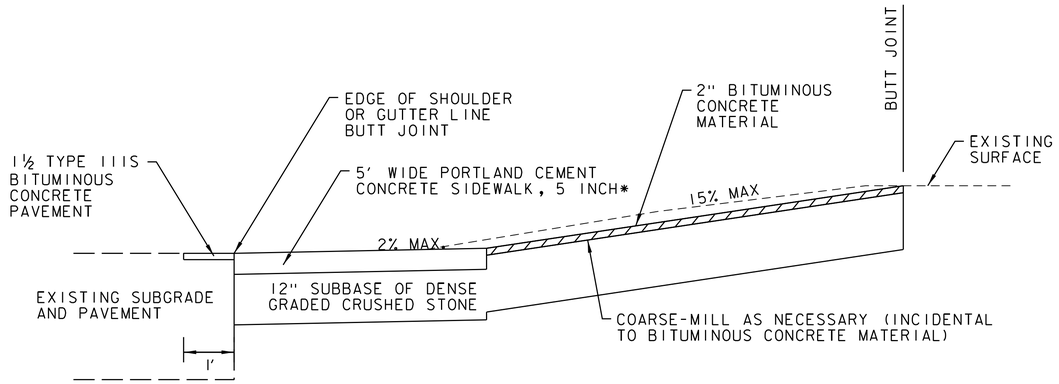
•PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH SHALL BE USED AT COMMERCIAL DRIVES



DRY STACKED STONE RETAINING WALL

N.T.S.

PROJECT NAME:	EAST MAIN STREET SIDEWALK
PROJECT NUMBER:	TAP TA 16(4) - STP BP17(13)
FILE NAME: 57923typ.dgn	PLOT DATE: 2/20/2020
PROJECT LEADER: E.P. DETRICK	DRAWN BY: B.M. ROBERTS
DESIGNED BY: B.M. ROBERTS	CHECKED BY: E.P. DETRICK
DETAIL SHEET (1 OF 3)	SHEET 5 OF 37

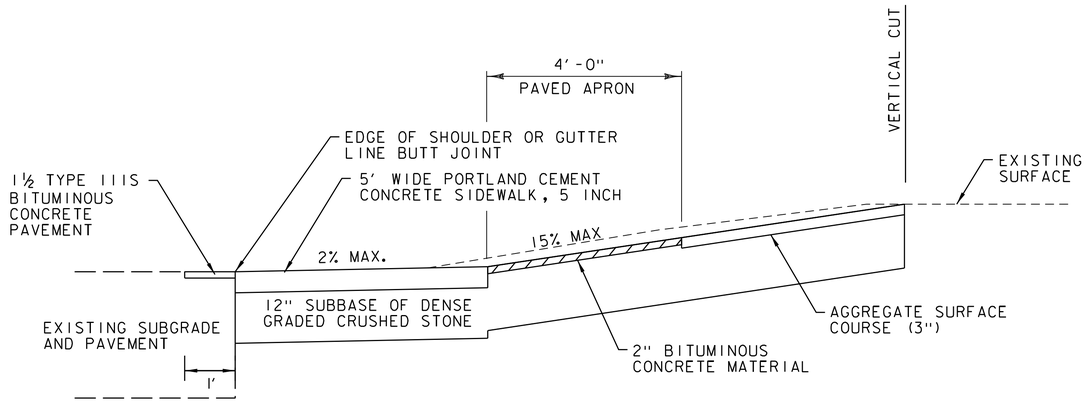


SECTION A-A

HANDWORK DETAILS FOR PAVED DRIVES

NOT TO SCALE

*PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH SHALL BE USED AT COMMERCIAL DRIVES



SECTION A-A

HANDWORK DETAILS FOR GRAVEL DRIVES

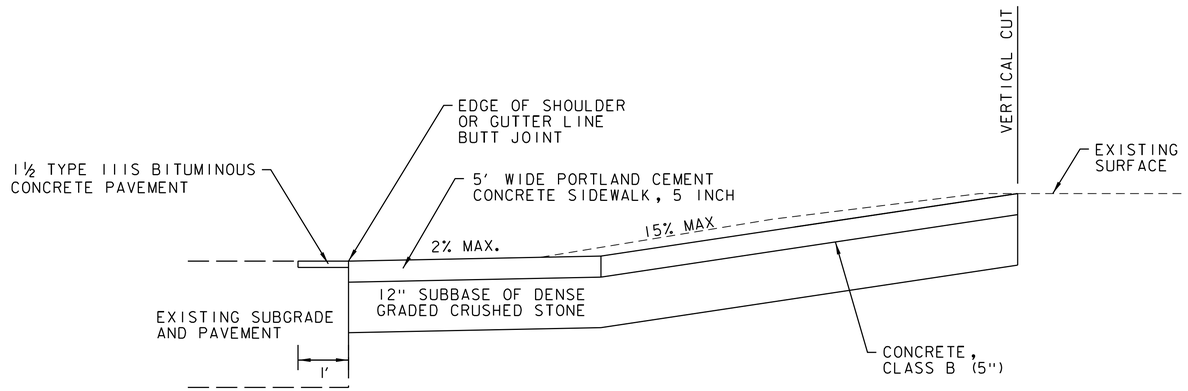
NOT TO SCALE

NOTES

1. PAVING LIFT NOT TO EXCEED TWO INCHES.
2. THE COST OF PLACING SUBBASE MATERIAL, CLEANING EXISTING PAVED SURFACES, INCLUDING POWER EQUIPMENT, AND FOR FILLING JOINTS, CRACKS AND HOLES WILL NOT BE PAID DIRECTLY BUT SHALL BE INCIDENTAL TO ITEM 406.38 "HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES".
3. EXCAVATION OR FILL NEEDED TO ACHIEVE PROPER DRIVE SLOPES WILL BE PAID DIRECTLY UNDER THE APPROPRIATE PAY ITEMS.
4. WHEN GRADING DRIVES WHICH REQUIRE STEEP GRADES THE FOLLOWING RULE OF THUMB SHOULD BE USED. DO NOT EXCEED A GRADE % CHANGE OF MORE THAN 9% IN A 6' INCREMENT OF DRIVEWAY LENGTH.
5. DRIVES TO BE CONSTRUCTED PER VTRANS STANDARDS B-71a, B-71b, AND C-2A. SEE PLANS FOR MORE INFORMATION.
6. SAWCUTTING FOR DRIVES SHALL BE INCIDENTAL TO THE CONSTRUCTION OF THE DRIVE.

LEGEND

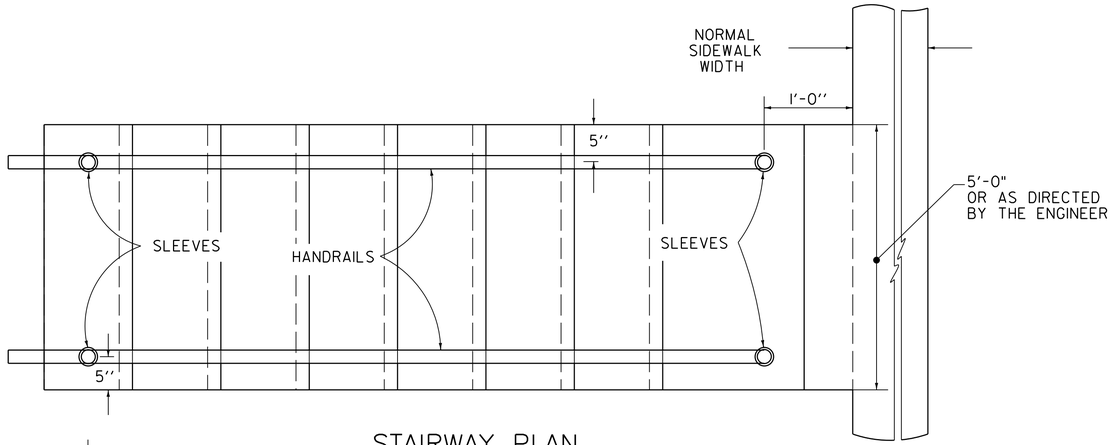
ITEM 406.38, HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES



HANDWORK DETAILS FOR CONCRETE DRIVES

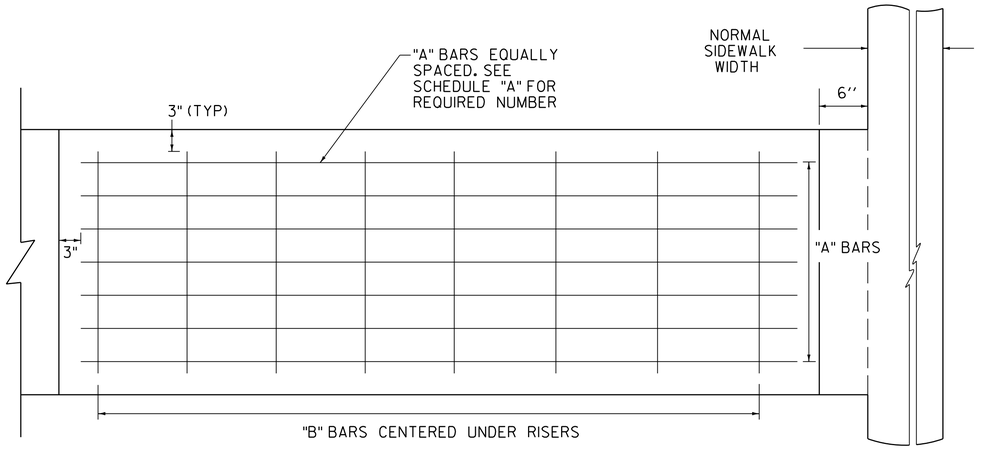
NOT TO SCALE

PROJECT NAME:	EAST MAIN STREET SIDEWALK
PROJECT NUMBER:	TAP TA 16(4) - STP BP17(13)
FILE NAME: 57923typ.dgn	PLOT DATE: 2/20/2020
PROJECT LEADER: E.P. DETRICK	DRAWN BY: B.M. ROBERTS
DESIGNED BY: B.M. ROBERTS	CHECKED BY: E.P. DETRICK
DETAIL SHEET (2 OF 3)	SHEET 6 OF 37



STAIRWAY PLAN

N.T.S.



STEEL PLAN

N.T.S.

SLEEVE DETAIL

N.T.S.

CONCRETE CLASS B
CUBIC YARDS

NO. RISERS	WIDTH 3'	WIDTH 4'	WIDTH 5'	HAND-RAIL LF
1	0.41	0.55	0.69	7
2	0.50	0.68	0.85	9
3	0.60	0.80	1.00	11
4	0.69	0.92	1.16	13
5	0.78	1.05	1.31	15
6	0.88	1.17	1.47	17
7	0.97	1.30	1.63	19

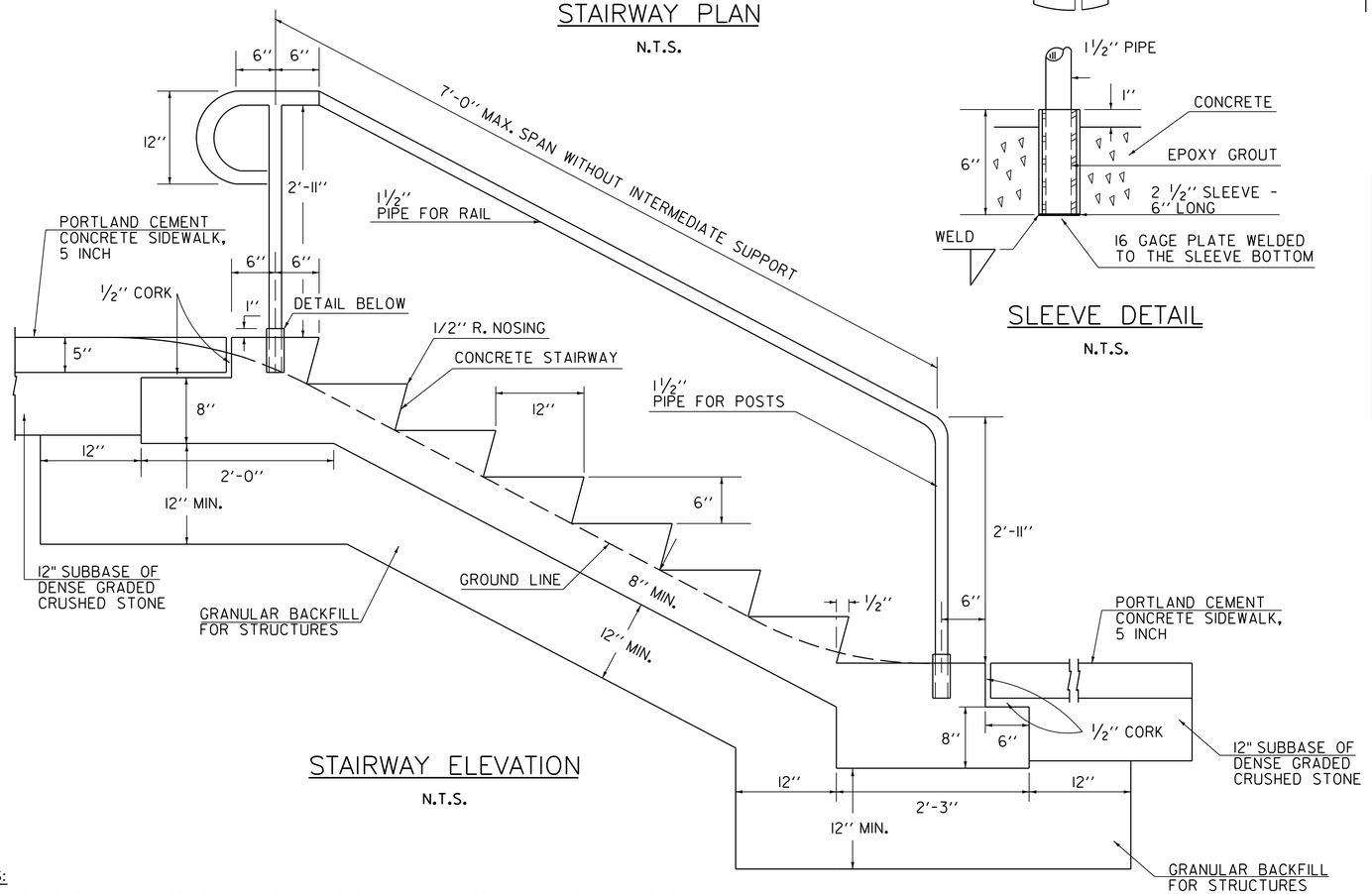
SCHEDULE ''A'' REINFORCING STEEL

STAIRWAY WIDTHS	NUMBER OF ''A'' BARS REQUIRED T = 1-5	T=6	T=7	T=8	T=9	T=10	T=11	T=12	T = 12-18
3'	NO STEEL REQUIRED	4	5	5	6	6	7	7	8
4'		5	6	7	7	8	8	9	10
5'		6	7	8	9	9	10	11	12

T = THE NUMBER OF TREADS EXCLUDING THE LANDING

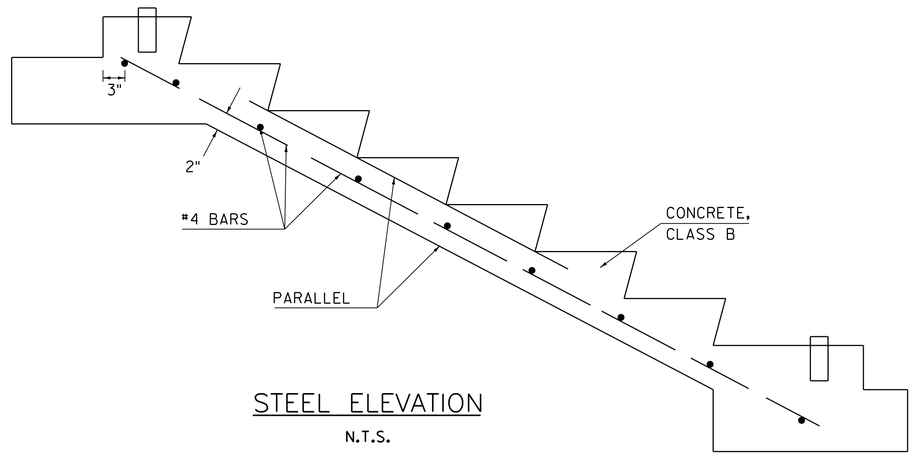
THE NUMBER OF ''B'' BARS IS EQUAL TO THE NUMBER OF RISERS PLUS TWO BARS.

FOR OTHER WIDTHS THE APPROXIMATE SPACING OF ''A'' BARS IN INCHES WILL BE EQUAL TO 80 ÷ T WITH A MINIMUM SPACING OF 6 INCHES



STAIRWAY ELEVATION

N.T.S.



STEEL ELEVATION

N.T.S.

NOTES:

1. CONTRACTOR SHALL VERIFY NUMBER OF TREADS AND RISERS ON THE LAYOUT PLANS.
2. ALL WELDED JOINTS SHALL BE FINISHED BY GRINDING OR FILING TO GIVE A NEAT APPEARANCE.
3. RAIL AND POSTS TO BE STAINLESS STEEL. TWO RAILINGS ARE REQUIRED FOR ALL STEPS.
4. ALL COSTS ASSOCIATED WITH FABRICATION AND INSTALLATION OF RAILINGS SHALL BE INCIDENTAL TO ITEM 900.645, SPECIAL PROVISION (CONCRETE STEPS WITH HANDRAIL EXTENSIONS).
5. EXCAVATION FOR STAIRS SHALL BE PAID FOR UNDER ITEM 203.15, COMMON EXCAVATION.
6. CONCRETE SHALL BE CLASS B, AND MEET THE REQUIREMENTS OF SECTION 541 FOR CLASS B CONCRETE. PAYMENT FOR CONCRETE SHALL BE INCIDENTAL TO CONCRETE STEPS.
7. ALL REINFORCING IN THE STAIRS SHALL BE UNCOATED NO. 4 BARS AND SHALL MEET THE REQUIREMENTS OF SECTION 507 FOR LEVEL I REINFORCING. CLEAR COVER SHALL BE 3" UNLESS OTHERWISE NOTED. PAYMENT FOR REINFORCING SHALL BE INCIDENTAL TO CONCRETE STEPS.

PROJECT NAME: EAST MAIN STREET SIDEWALK
PROJECT NUMBER: TAP TA 16(4) - STP BPI7(13)

FILE NAME: 57923typ.dgn
PROJECT LEADER: E.P. DETRICK
DESIGNED BY: B.M. ROBERTS
DETAIL SHEET (3 OF 3)

PLOT DATE: 2/20/2020
DRAWN BY: B.M. ROBERTS
CHECKED BY: E.P. DETRICK
SHEET 7 OF 37

QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES		TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
1011 - ROADWAY	1012 - ROADWAY (NO FEDERAL	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
1		1		LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.10				
660		660		CY	COMMON EXCAVATION	203.15				
115		115		CY	SOLID ROCK EXCAVATION	203.16				
25	260	285		CY	EARTH BORROW	203.30				
	250	250		CY	SAND BORROW	203.31				
	150	150		CY	GRANULAR BORROW	203.32				
340	970	1310		CY	TRENCH EXCAVATION OF EARTH	204.20				
	40	40		CY	TRENCH EXCAVATION OF ROCK	204.21				
1	1	2		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22				
200		200		CY	GRANULAR BACKFILL FOR STRUCTURES	204.30				
130		130		SY	COARSE-MILLING, BITUMINOUS PAVEMENT	210.10				
680	80	760		CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35				
15		15		CY	AGGREGATE SURFACE COURSE	401.10				
3	1	4		CWT	EMULSIFIED ASPHALT	404.65				
170	25	195		SY	HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES	406.38				
280		280		LB	REINFORCING STEEL, LEVEL I	507.11				
8		8		CY	CONCRETE, CLASS B	541.25				
150		150		CY	DRY MASONRY	602.20				
	6	6		EACH	SANITARY SEWER MANHOLE	604.22				
6		6		EACH	CHANGING ELEVATION OF DROP INLETS, CATCH BASINS, OR MANHOLES	604.40				
1125		1125		LF	VERTICAL GRANITE CURB	616.21				
	100	100		LF	CAST-IN-PLACE CONCRETE CURB, TYPE B	616.28				
1120	100	1220		LF	REMOVAL OF EXISTING CURB	616.41				
	1	1		EACH	REMOVE AND RESET MAILBOX, SINGLE SUPPORT	617.10				
750	30	780		SY	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	618.10				
35		35		SY	PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH	618.11				
58	10	68		SF	DETECTABLE WARNING SURFACE	618.30				
2		2		EACH	REMOVING AND RESETTING PROPERTY MARKERS	619.20				
75		75		LF	REMOVING AND RESETTING FENCE	620.50				
	35	35		LF	SLEEVES FOR UTILITIES (10")(SCH 80 PVC)	625.10				
	45	45		LF	SLEEVES FOR UTILITIES (12")(SCH 80 PVC)	625.10				
	245	245		LF	PVC SEWER PIPE (4")	628.35				
	590	590		LF	PVC SEWER PIPE (8")	628.35				
	1	1		LS	TRANSFER TO NEW SYSTEM, SANITARY SEWER	628.42				
1		1		EACH	RELOCATE HYDRANT	629.29				
85		85		TON	CRUSHED STONE BEDDING	629.54				
200		200		HR	FLAGGERS	630.15				
1		1		LS	MOBILIZATION/DEMOBILIZATION	635.11				
1		1		LS	TRAFFIC CONTROL, ALL-INCLUSIVE	641.11				
70		70		LF	CROSSWALK MARKING, WATERBORNE PAINT	646.311				

vhb

PROJECT NAME: EAST MAIN STREET SIDEWALK
PROJECT NUMBER: TAP TA 16(4) - STP BP17(13)

FILE NAME: 57923_qss.dgn
PROJECT LEADER: E.P.DETRICK
DESIGNED BY: C.K.FORD
QUANTITY SUMMARY SHEET (1 OF 2)

PLOT DATE: 2/20/2020
DRAWN BY: C.K.FORD
CHECKED BY: E.P.DETRICK
SHEET 8 OF 37

QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES		TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
1011 - ROADWAY	1012 - ROADWAY (NO FEDERAL	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
35	5	40		LB	SEED	651.15				
145	5	150		LB	FERTILIZER	651.18				
1	0.1	1.1		TON	AGRICULTURAL LIMESTONE	651.20				
80	5	85		CY	TOPSOIL	651.35				
1	0.1	1.1		TON	HAY MULCH	653.10				
8		8		EACH	INLET PROTECTION DEVICE, TYPE II	653.41				
1350		1350		LF	PROJECT DEMARCATION FENCE	653.55				
1		1		LS	TREE PROTECTION	656.85				
36		36		SF	TRAFFIC SIGN, TYPE A	675.20				
105		105		LF	SQUARE TUBE SIGN POST AND ANCHOR	675.341				
9		9		EACH	REMOVING SIGNS	675.50				
6		6		EACH	RESETTING SIGNS	675.60				
	2	2		EACH	SPECIAL PROVISION (REBUILD STONE WALKWAY)	900.620				
	1	1		LS	SPECIAL PROVISION (REBUILD WOODEN HANDICAP RAMP)	900.645				
1		1		LS	SPECIAL PROVISION (CONCRETE STEPS WITH HAND RAIL EXTENSIONS)(STA 1+84)	900.645				
2		2		LS	SPECIAL PROVISION	900.645				
1		1		LS	SPECIAL PROVISION (REMOVE AND RESET SIGN AND PLANTER)	900.645				
105	40	145		TON	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY)	900.680				

vhb

PROJECT NAME: EAST MAIN STREET SIDEWALK
PROJECT NUMBER: TAP TA 16(4) - STP BP17(13)

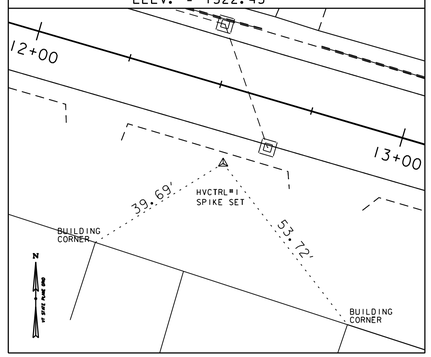
FILE NAME: 57923_qss.dgn
PROJECT LEADER: E.P.DETRICK
DESIGNED BY: C.K.FORD
QUANTITY SUMMARY SHEET (1 OF 2)

PLOT DATE: 2/20/2020
DRAWN BY: C.K.FORD
CHECKED BY: E.P.DETRICK
SHEET 9 OF 37

TRAVERSE TIES

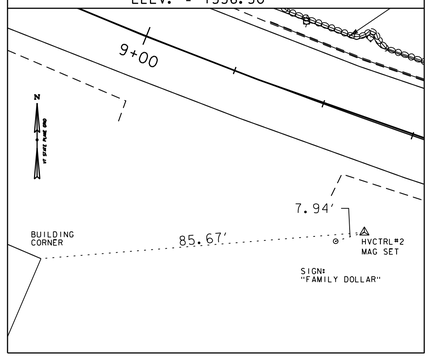
HVCTRL #1

NORTH = 133596.1187
EAST = 1542452.4868
ELEV. = 1522.45



HVCTRL #2

NORTH = 133670.7880
EAST = 1542175.8550
ELEV. = 1536.50



HVCTRL #3

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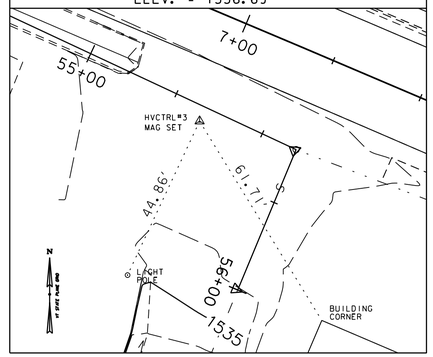
EAST = 1541921.8164
ELEV. = 1536.69



TRAVERSE TIES

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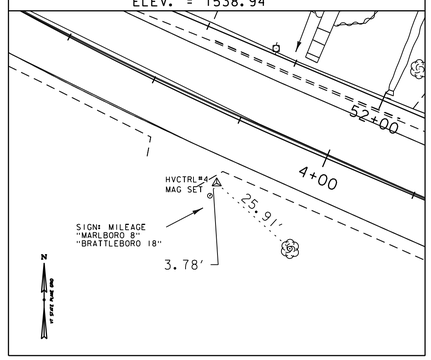
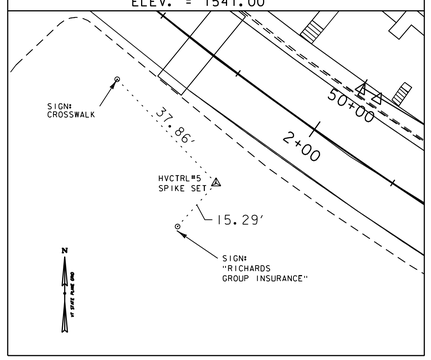
EAST = 1541629.0887
ELEV. = 1538.94



HVCTRL #5

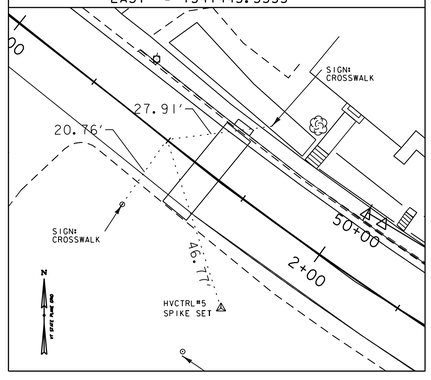
NORTH = 134000.7821
EAST = 1541457.6381
ELEV. = 1541.00



ALIGNMENT TIES

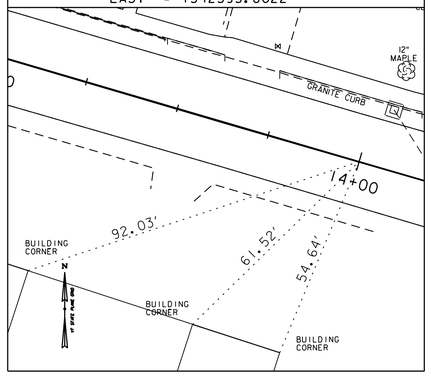
PC 1+49.55

NORTH = 134045.3110
EAST = 1541443.3335



POT 14+00.00

NORTH = 133574.8546
EAST = 1542595.8022



DATUM

VERTICAL NAVD 88

HORIZONTAL VT NAD 83 (2011)

ADJUSTMENT

PROJECT NAME: EAST MAIN STREET SIDEWALK
PROJECT NUMBER: TAP TA 16(4) - STP BP17(13)

FILE NAME: 57923ti.dgn
PROJECT LEADER: E.P. DETRICK
DESIGNED BY: B.M. ROBERTS
TIE SHEET

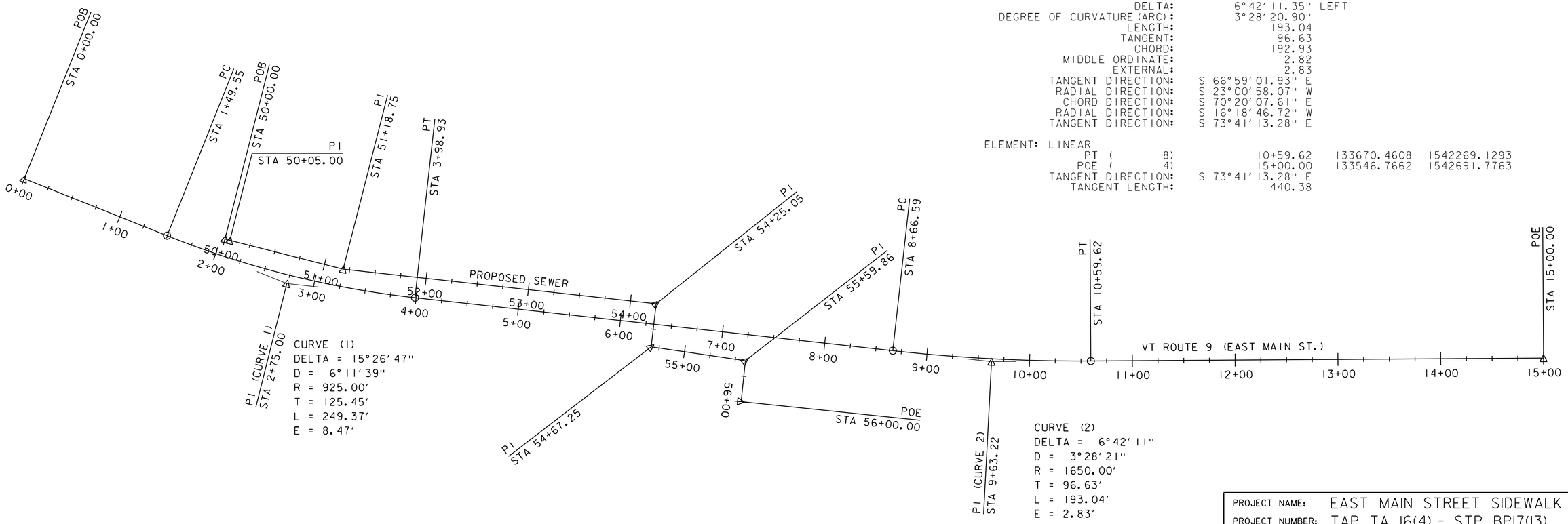
PLOT DATE: 2/20/2020
DRAWN BY: B.M. ROBERTS
CHECKED BY: J.F. VEAR
SHEET 10 OF 37

PROJECT NAME: 57923.00
DESCRIPTION: WILMINGTON SW
HORIZONTAL ALIGNMENT NAME: PR_SEWER
DESCRIPTION:
STYLE: DEFAULT

		STATION	NORTHING	EASTING
ELEMENT: LINEAR				
POB (	36)	50+00.00	134026.0205	1541496.2778
PI (	37)	50+05.00	134023.4464	1541500.5643
TANGENT DIRECTION:		S 59°00'53.11" E		
TANGENT LENGTH:		5.00		
ELEMENT: LINEAR				
PI (	37)	50+05.00	134023.4464	1541500.5643
PI (	38)	51+18.75	133964.8875	1541598.0796
TANGENT DIRECTION:		S 59°00'53.11" E		
TANGENT LENGTH:		113.75		
ELEMENT: LINEAR				
PI (	38)	51+18.75	133964.8875	1541598.0796
PI (	39)	54+25.05	133845.2228	1541880.0447
TANGENT DIRECTION:		S 67°00'13.84" E		
TANGENT LENGTH:		306.31		
ELEMENT: LINEAR				
PI (	39)	54+25.05	133845.2228	1541880.0447
PI (	40)	54+67.25	133806.4503	1541863.3959
TANGENT DIRECTION:		S 23°14'19.14" W		
TANGENT LENGTH:		42.20		
ELEMENT: LINEAR				
PI (	40)	54+67.25	133806.4503	1541863.3959
PI (	41)	55+59.86	133767.2575	1541947.3028
TANGENT DIRECTION:		S 64°57'46.11" E		
TANGENT LENGTH:		92.61		
ELEMENT: LINEAR				
PI (	41)	55+59.86	133767.2575	1541947.3028
POE (	42)	56+00.00	133730.2020	1541931.8766
TANGENT DIRECTION:		S 22°36'06.87" W		
TANGENT LENGTH:		40.14		

PROJECT NAME: 57923.00
DESCRIPTION: WILMINGTON SW
HORIZONTAL ALIGNMENT NAME: 57923.00
DESCRIPTION: WILMINGTON SW
STYLE: ALIGN1

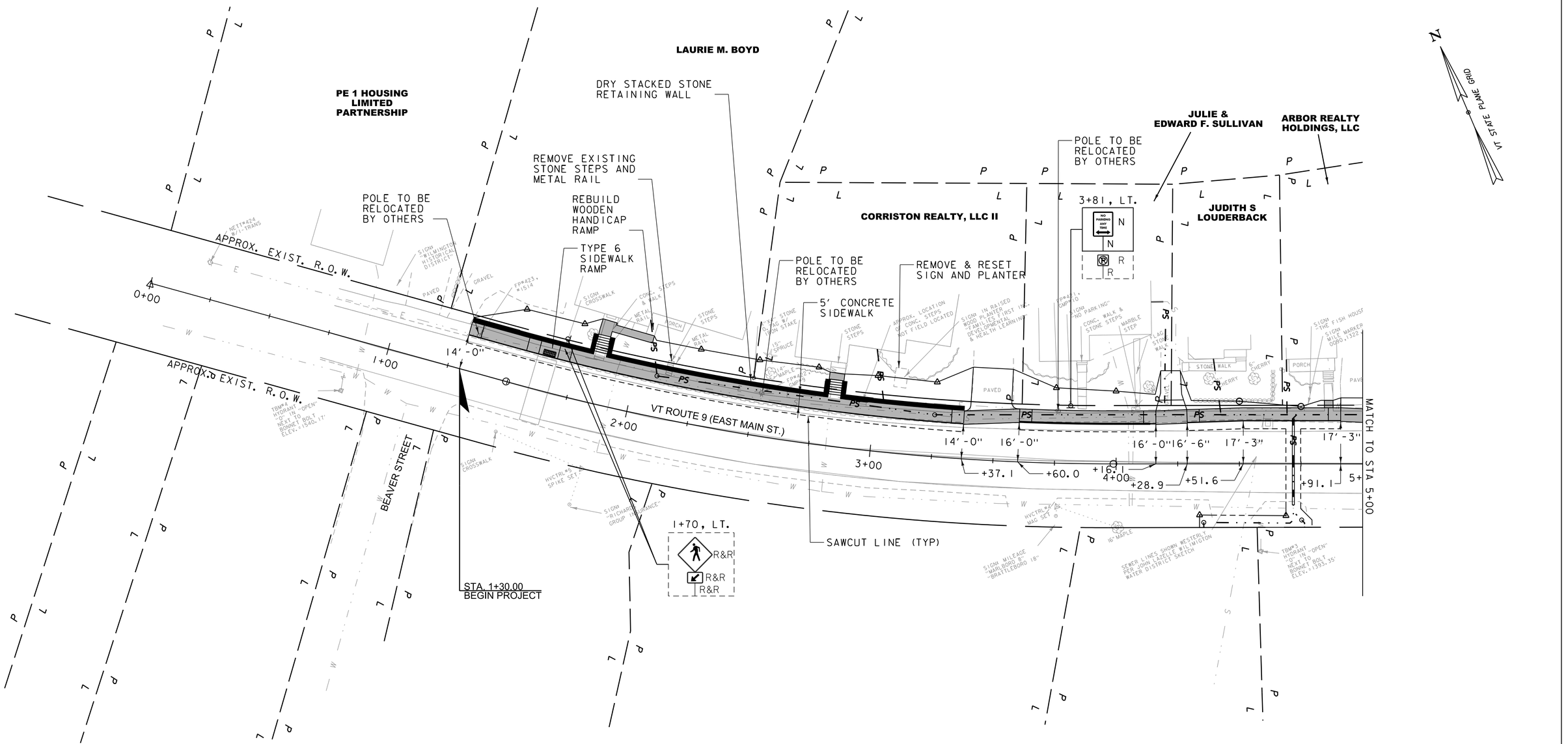
		STATION	NORTHING	EASTING
ELEMENT: LINEAR				
POB (	1)	0+00.00	134138.3337	1541326.2310
PC (	2)	1+49.55	134045.3110	1541443.3335
TANGENT DIRECTION:		S 51°32'14.78" E		
TANGENT LENGTH:		149.55		
ELEMENT: CIRCULAR				
PC (	2)	1+49.55	134045.3110	1541443.3335
PI (	)	2+75.00	133967.2828	1541541.5600
CC (	5)		134769.5996	1542018.6864
PT (	6)	3+98.93	133918.2344	1541657.0204
RADIUS:		925.00		
DELTA:		15°26'47.15" LEFT		
DEGREE OF CURVATURE(ARC):		6°11'38.90"		
LENGTH:		249.37		
TANGENT:		125.45		
CHORD:		248.62		
MIDDLE ORDINATE:		8.39		
EXTERNAL:		8.47		
TANGENT DIRECTION:		S 51°32'14.78" E		
RADIAL DIRECTION:		S 38°27'45.22" W		
CHORD DIRECTION:		S 59°15'38.35" E		
RADIAL DIRECTION:		S 23°00'58.07" W		
TANGENT DIRECTION:		S 66°59'01.93" E		
ELEMENT: LINEAR				
PT (	6)	3+98.93	133918.2344	1541657.0204
PC (	3)	8+66.59	133735.3831	1542087.4541
TANGENT DIRECTION:		S 66°59'01.93" E		
TANGENT LENGTH:		467.66		
ELEMENT: CIRCULAR				
PC (	3)	8+66.59	133735.3831	1542087.4541
PI (	)	9+63.22	133697.6022	1542176.3907
CC (	7)		135254.0346	1542732.5880
PT (	8)	10+59.62	133670.4608	1542269.1293
RADIUS:		1650.00		
DELTA:		6°42'11.35" LEFT		
DEGREE OF CURVATURE(ARC):		3°28'20.90"		
LENGTH:		193.04		
TANGENT:		96.63		
CHORD:		192.93		
MIDDLE ORDINATE:		2.82		
EXTERNAL:		2.83		
TANGENT DIRECTION:		S 66°59'01.93" E		
RADIAL DIRECTION:		S 23°00'58.07" W		
CHORD DIRECTION:		S 70°20'07.61" E		
RADIAL DIRECTION:		S 16°18'46.72" W		
TANGENT DIRECTION:		S 73°41'13.28" E		
ELEMENT: LINEAR				
PT (	8)	10+59.62	133670.4608	1542269.1293
POE (	4)	15+00.00	133546.7662	1542691.7763
TANGENT DIRECTION:		S 73°41'13.28" E		
TANGENT LENGTH:		440.38		



PROJECT NAME: EAST MAIN STREET SIDEWALK
PROJECT NUMBER: TAP TA 16(4) - STP BP17(13)

FILE NAME: 57923_ali_data.dgn
PROJECT LEADER: E.P. DETRICK
DESIGNED BY: C.K. FORD
ALIGNMENT DATA SHEET

PLOT DATE: 2/20/2020
DRAWN BY: C.K. FORD
CHECKED BY: E.P. DETRICK
SHEET 11 OF 37



PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
STA 1+30 - STA 3+37, LT
STA 1+82 - STA 2+05, LT
STA 2+80 - STA 2+97, LT
STA 3+60 - STA 5+00, LT

PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH
STA 3+37 - STA 3+60, LT

SIDEWALK RAMP TYPE 6, EX. 5 (SEE STD. C-3B)
STA 1+64, LT

DETECTABLE WARNING SURFACE
STA 1+64, LT

VERTICAL GRANITE CURB
STA 1+30.0 - STA 3+37.2, LT
STA 3+60.1 - STA 4+16.1, LT
STA 4+28.9 - STA 4+91.1, LT

PAVED DRIVE, TYPE 2 (SEE STD. C-2A)
STA 3+49, LT 23' WIDE
STA 4+99, LT 16' WIDE

GRAVEL DRIVE, TYPE 2 (SEE STD. C-2A)
STA 4+22, LT 13' WIDE

SOLID ROCK EXCAVATION (EXISTING SIDEWALK)
STA 1+30 - STA 5+00, LT

REMOVING SIGNS
STA 1+70, LT (2)
STA 3+81, LT (1)

REMOVE AND RESET FENCE
STA 4+30 - STA 4+62, LT

DRY MASONRY
STA 4+31 - STA 4+64, LT

CHANGING ELEVATION OF DROP INLETS, CATCH BASINS, OR MANHOLES
STA 4+61.6, LT

RESETTING SIGNS
STA 1+70, LT (2)

SPECIAL PROVISION (REBUILD WOODEN HANDICAP RAMP)
STA 2+01 - STA 2+16, LT

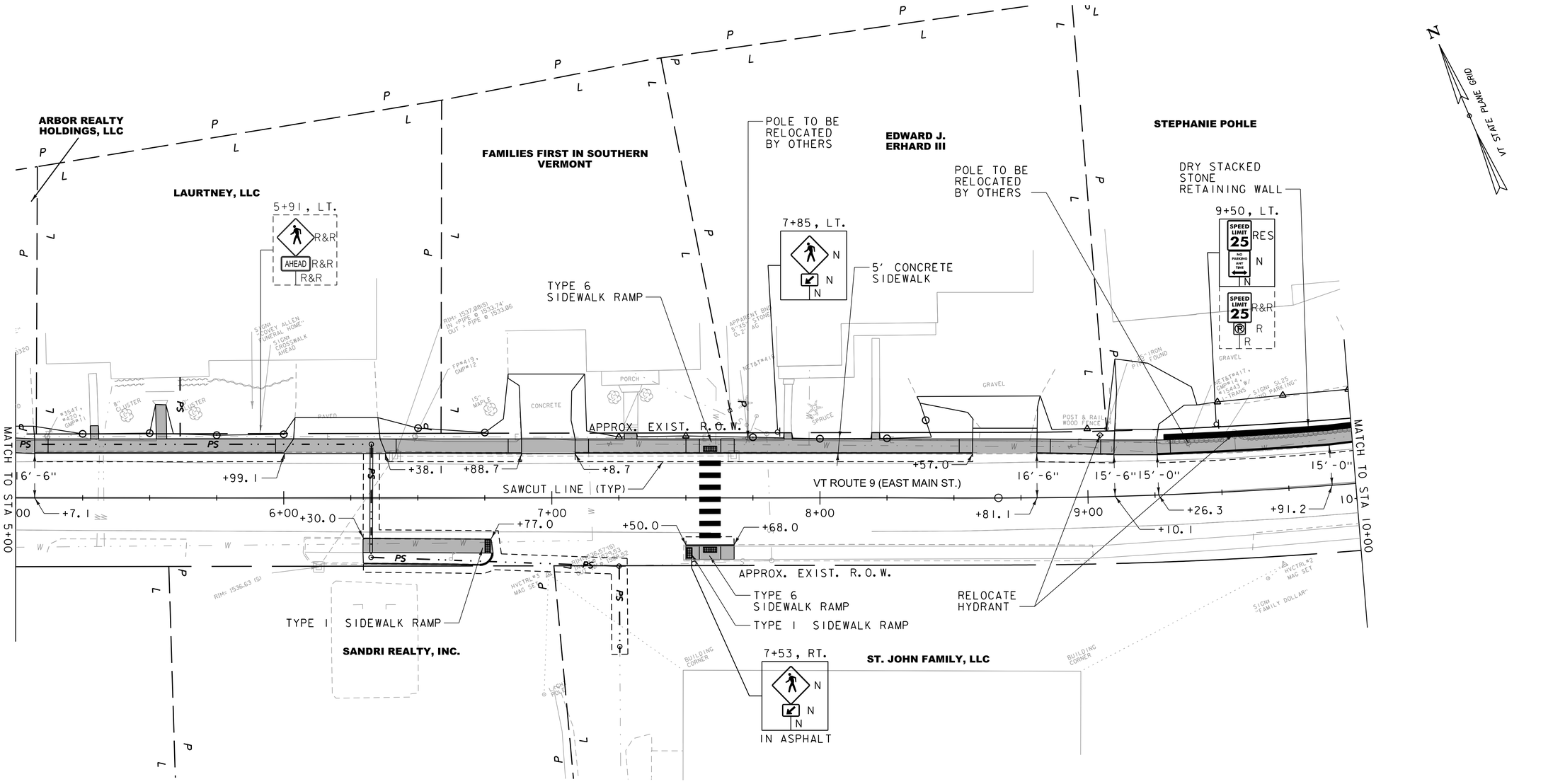
SPECIAL PROVISION (REMOVE AND RESET SIGN AND PLANTER)
STA 3+10, LT

SPECIAL PROVISION (REBUILD STONE WALKWAY)
STA 3+86, LT
STA 4+09, LT

SPECIAL PROVISION (CONCRETE STEPS WITH HANDRAIL EXTENSIONS)
STA 1+85, LT
STA 2+95, LT

0 20 40
SCALE IN FEET

PROJECT NAME:	EAST MAIN STREET SIDEWALK
PROJECT NUMBER:	TAP TA 16(4) - STP BPI7(13)
FILE NAME: 57923bdr_nul.dgn	PLOT DATE: 2/20/2020
PROJECT LEADER: E.P. DETRICK	DRAWN BY: B.M. ROBERTS
DESIGNED BY: B.M. ROBERTS	CHECKED BY: E.P. DETRICK
LAYOUT PLAN (SHEET 1 OF 3)	SHEET 12 OF 37



PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH

STA 5+00 - STA 6+00, LT
STA 6+40 - STA 10+00, LT
STA 6+30 - STA 6+78, RT
STA 7+50 - STA 7+68, RT

PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH

STA 6+00 - STA 6+40, LT

CAST-IN-PLACE CONCRETE CURB, TYPE B

STA 6+30.0 - STA 6+78.0, RT (FRONT & BACK)

VERTICAL GRANITE CURB

STA 5+07.1 - STA 6+00.2, LT
STA 6+37.9 - STA 6+88.7, LT
STA 7+08.7 - STA 8+58.6, LT
STA 7+50.0 - STA 7+68.0, RT
STA 8+78.4 - STA 9+10.1, LT
STA 9+26.4 - STA 10+00.0, LT

DETECTABLE WARNING SURFACE

STA 6+76, RT
STA 7+59, LT
STA 7+59, RT (2)

PAVED DRIVE, TYPE 2 (SEE STD. C-2A)

STA 6+19, LT 38' WIDE

CONCRETE DRIVE, TYPE 2 (SEE STD. C-2A)

STA 6+99, LT 20' WIDE

GRAVEL DRIVE, TYPE 2 (SEE STD. C-2A)

STA 8+69, LT 20' WIDE
STA 9+18, LT 16' WIDE

SIDEWALK RAMP TYPE 6, EX. 5 (SEE STD. C-3B)

STA 7+59, LT
STA 7+59, RT

SIDEWALK RAMP TYPE I (SEE STD. C-3A)

STA 6+75, RT
STA 7+50, RT

REMOVE AND RESET FENCE

STA 8+94.5 - STA 9+08.5, LT

CROSSWALK MARKING, WATERBORNE PAINT

STA 7+59, LT/RT

SOLID ROCK EXCAVATION (EXISTING SIDEWALK)

STA 5+00 - STA 10+00, LT
STA 6+30 - STA 6+78, RT
STA 7+50 - STA 7+68, RT

SOLID ROCK EXCAVATION (CONCRETE DRIVE)

STA 6+89 - 7+09, LT

CHANGING ELEVATION OF DROP INLETS, CATCH BASINS, OR MANHOLES

STA 6+41.5, LT
STA 7+67.8, LT

REMOVE AND RESET MAILBOX, SINGLE SUPPORT

STA 6+63, RT

REMOVING SIGNS

STA 5+91, LT (2)
STA 9+50, LT (2)

RESETTING SIGNS

STA 9+50, LT (1)

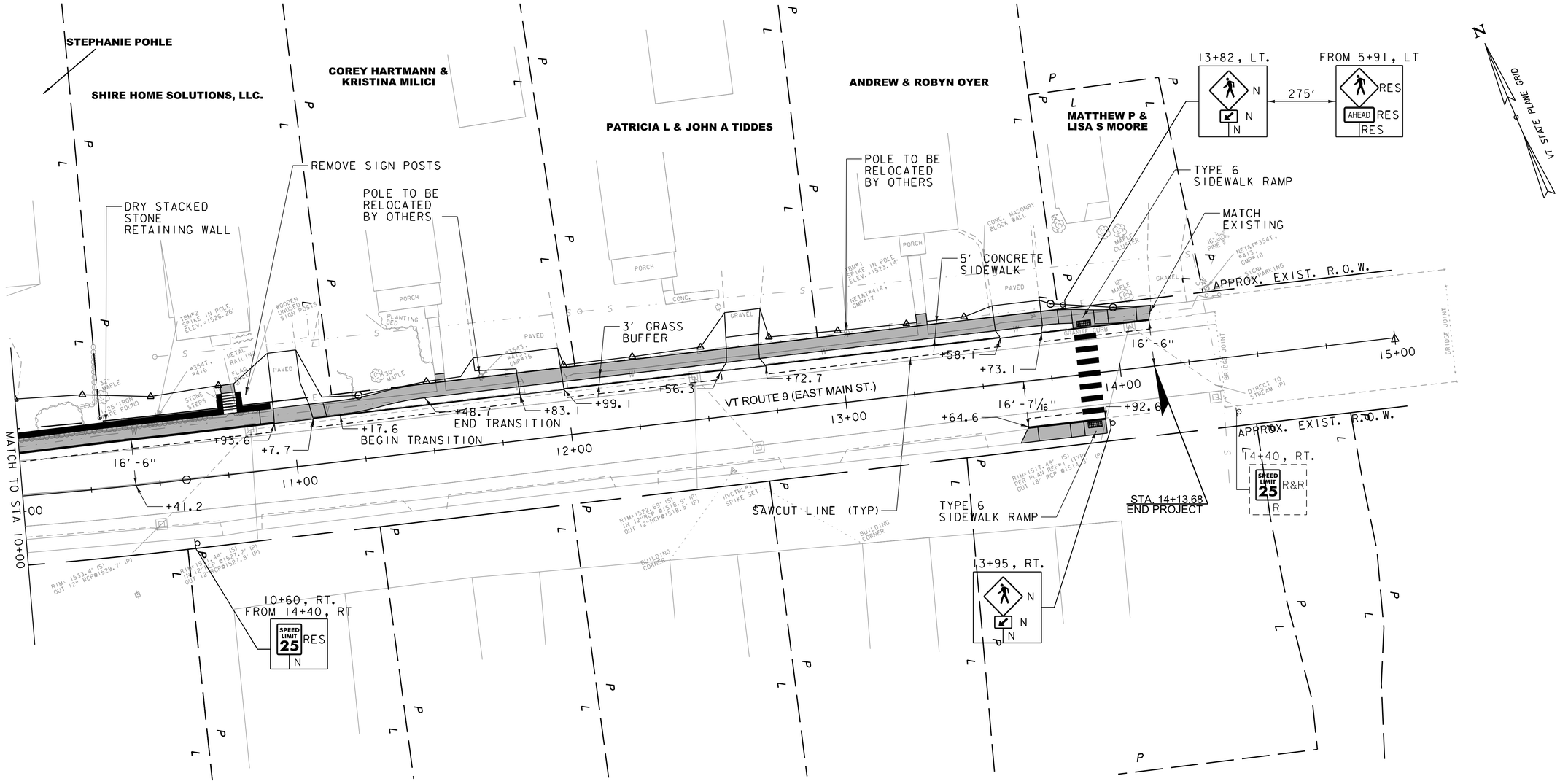
REMOVING AND RESETTING PROPERTY MARKERS

STA 9+10, LT
STA 10+30, LT

0 20 40
SCALE IN FEET

vhb

PROJECT NAME:	EAST MAIN STREET SIDEWALK
PROJECT NUMBER:	TAP TA 16(4) - STP BP17(13)
FILE NAME: 57923bdr_nul.dgn	PLOT DATE: 2/20/2020
PROJECT LEADER: E.P. DETRICK	DRAWN BY: B.M. ROBERTS
DESIGNED BY: B.M. ROBERTS	CHECKED BY: E.P. DETRICK
LAYOUT PLAN (SHEET 2 OF 3)	SHEET 13 OF 37



PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH

STA 10+00 - STA 14+14, LT
STA 13+65 - STA 13+93, RT

SIDEWALK RAMP TYPE 6, EX. 5 (SEE STD. C-3B)

STA 13+89, LT
STA 13+89, RT

DETECTABLE WARNING SURFACE

STA 13+89, LT
STA 13+89, RT

VERTICAL GRANITE CURB

STA 10+00.0 - STA 10+93.6, LT
STA 11+07.6 - STA 11+83.1, LT
STA 11+99.1 - STA 12+56.3, LT
STA 12+72.7 - STA 13+58.1, LT
STA 13+64.6 - STA 13+92.6, RT
STA 13+73.1 - STA 14+13.7, LT

PAVED DRIVE, TYPE 2 (SEE STD. C-2A)

STA 11+01, LT	14' WIDE
STA 11+91, LT	16' WIDE
STA 13+66, LT	15' WIDE

GRAVEL DRIVE, TYPE 2 (SEE STD. C-2A)

STA 12+64, LT 16' WIDE

SPECIAL PROVISION (CONCRETE STEPS WITH HANDRAIL EXTENSIONS)

STA 10+78, LT

CROSSWALK MARKING, WATERBORNE PAINT

STA 13+89, LT/RT

CHANGING ELEVATION OF DROP INLETS, CATCH BASINS, OR MANHOLES

STA 10+85, LT
STA 12+47, LT
STA 14+05, LT

SOLID ROCK EXCAVATION (EXISTING SIDEWALK)

STA 10+00 - STA 14+14, LT
STA 13+65 - STA 13+93, RT

REMOVING SIGNS

STA 10+85, LT (SIGN POSTS)
STA 14+40, LT (1)

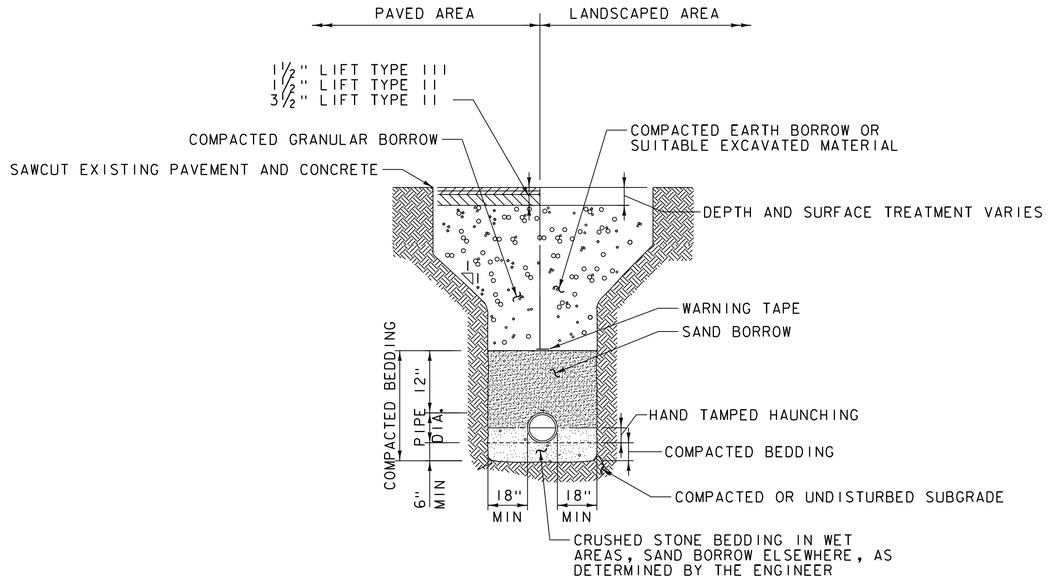
RESETTING SIGNS

STA 10+60, RT (1)
STA 16+57, LT (2)

0 20 40
SCALE IN FEET

PROJECT NAME:	EAST MAIN STREET SIDEWALK
PROJECT NUMBER:	TAP TA 16(4) - STP BPI7(13)

FILE NAME: 57923bdr_nul.dgn	PLOT DATE: 2/20/2020
PROJECT LEADER: E.P. DETRICK	DRAWN BY: B.M. ROBERTS
DESIGNED BY: B.M. ROBERTS	CHECKED BY: E.P. DETRICK
LAYOUT PLAN (SHEET 3 OF 3)	SHEET 14 OF 37

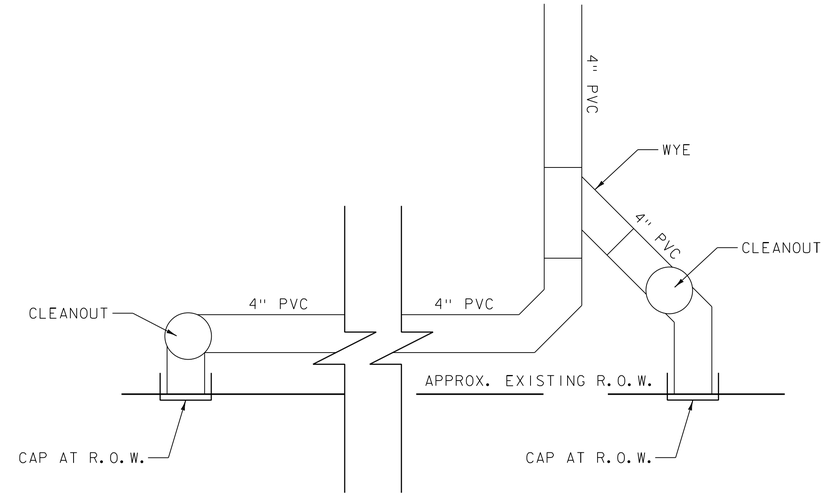


NOTES:

1. USE METALLIC WARNING TAPE OVER ALL PIPES. COST IS INCIDENTAL TO APPLICABLE PIPE ITEM.
2. BEDDING TO PROVIDE A FIRM, STABLE, CONTINUOUS, AND UNIFORM SUPPORT FOR THE FULL LENGTH OF THE PIPE.
3. NO MECHANICAL TAMPERS SHALL BE USED DIRECTLY OVER THE PIPE TO ENSURE PIPE IS NOT DAMAGED.
4. CRUSHED STONE BEDDING SHALL BE 3/4" (REFER TO TABLE 704.02B IN THE STANDARD SPECIFICATIONS).

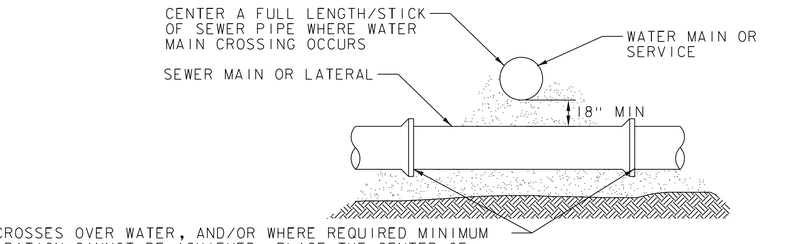
UTILITY TRENCH

N.T.S



SEWER SERVICE CONNECTION DETAIL

N.T.S



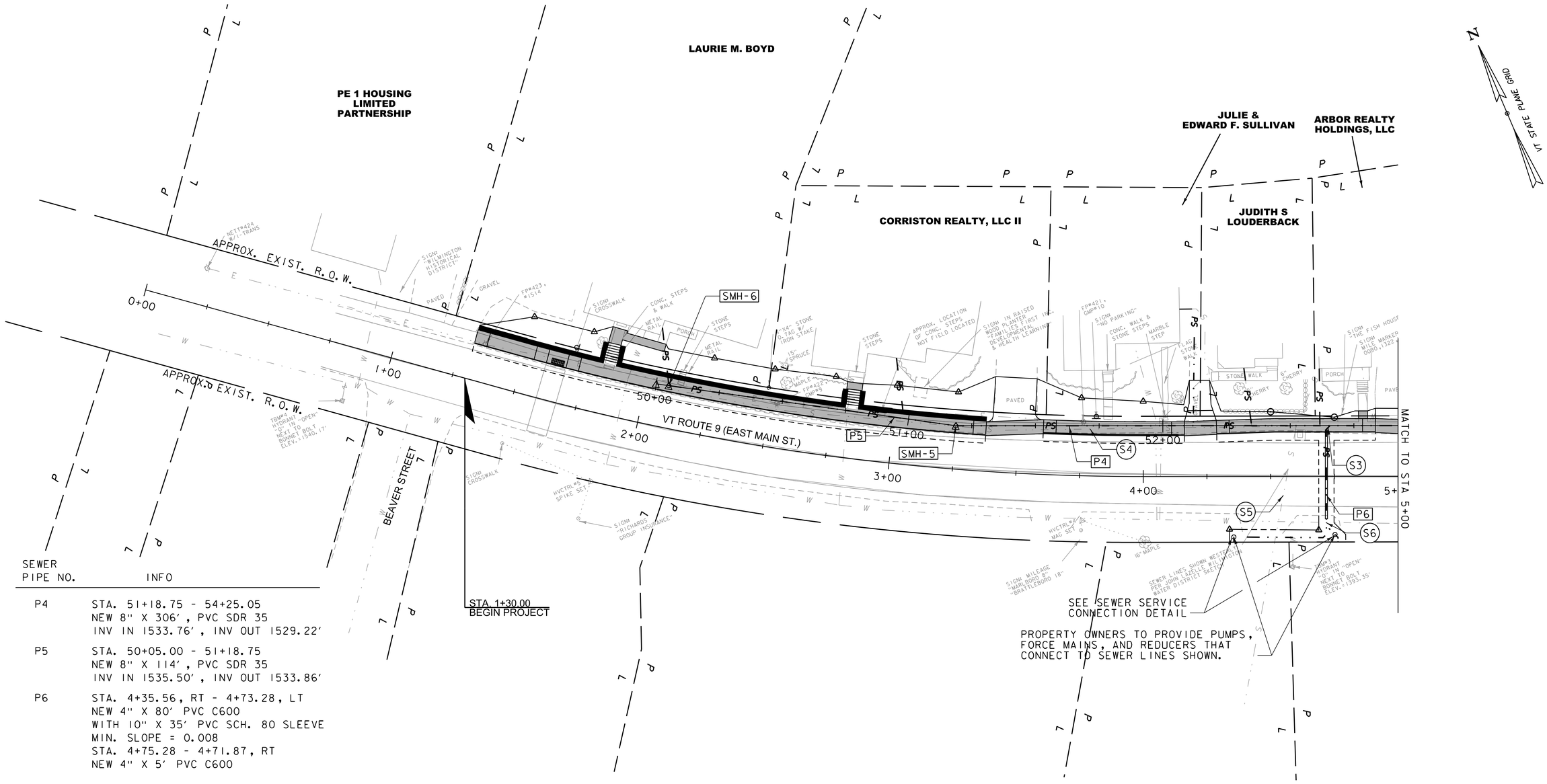
WHERE SEWER CROSSES OVER WATER, AND/OR WHERE REQUIRED MINIMUM VERTICAL SEPARATION CANNOT BE ACHIEVED, PLACE THE CENTER OF BOTH PIPES AT CROSSING LOCATION AND ENCASE THE TWO SEWER PIPE JOINTS NEAREST THE CROSSING IN CONCRETE, OR THE SEWER PIPE SHALL BE WATER PRESSURE PIPE MATERIAL (FROM MANHOLE TO MANHOLE) OR EQUAL AND SHALL BE PRESSURE TESTED TO ENSURE WATER TIGHTNESS

WATER AND SANITARY UTILITY CROSSINGS

WATER/SEWER SEPARATION

N.T.S

PROJECT NAME:	EAST MAIN STREET SIDEWALK
PROJECT NUMBER:	TAP TA 16(4) - STP BP17(13)
FILE NAME: 57923typ.dgn	PLOT DATE: 2/20/2020
PROJECT LEADER: E.P. DETRICK	DRAWN BY: B.M. ROBERTS
DESIGNED BY: B.M. ROBERTS	CHECKED BY: E.P. DETRICK
UTILITY DETAILS SHEET	SHEET 15 OF 37



SEWER PIPE NO.	INFO
P4	STA. 51+18.75 - 54+25.05 NEW 8" X 306', PVC SDR 35 INV IN 1533.76', INV OUT 1529.22'
P5	STA. 50+05.00 - 51+18.75 NEW 8" X 114', PVC SDR 35 INV IN 1535.50', INV OUT 1533.86'
P6	STA. 4+35.56, RT - 4+73.28, LT NEW 4" X 80' PVC C600 WITH 10" X 35' PVC SCH. 80 SLEEVE MIN. SLOPE = 0.008 STA. 4+75.28 - 4+71.87, RT NEW 4" X 5' PVC C600

SEWER STRUCTURE NO.	STATION	COMMENTS
SMH-5	51+18.75	4' DIA. SEWER MANHOLE, CAST-IRON-COVER RIM 1540.33' P5 INV IN = 1533.86' (NEW) P4 INV OUT = 1533.76' (NEW)
SMH-6	50+05.00	4' DIA. SEWER MANHOLE, CAST-IRON-COVER RIM 1541.54' P5 INV OUT = 1535.50' (NEW)

SEWER NOTES:

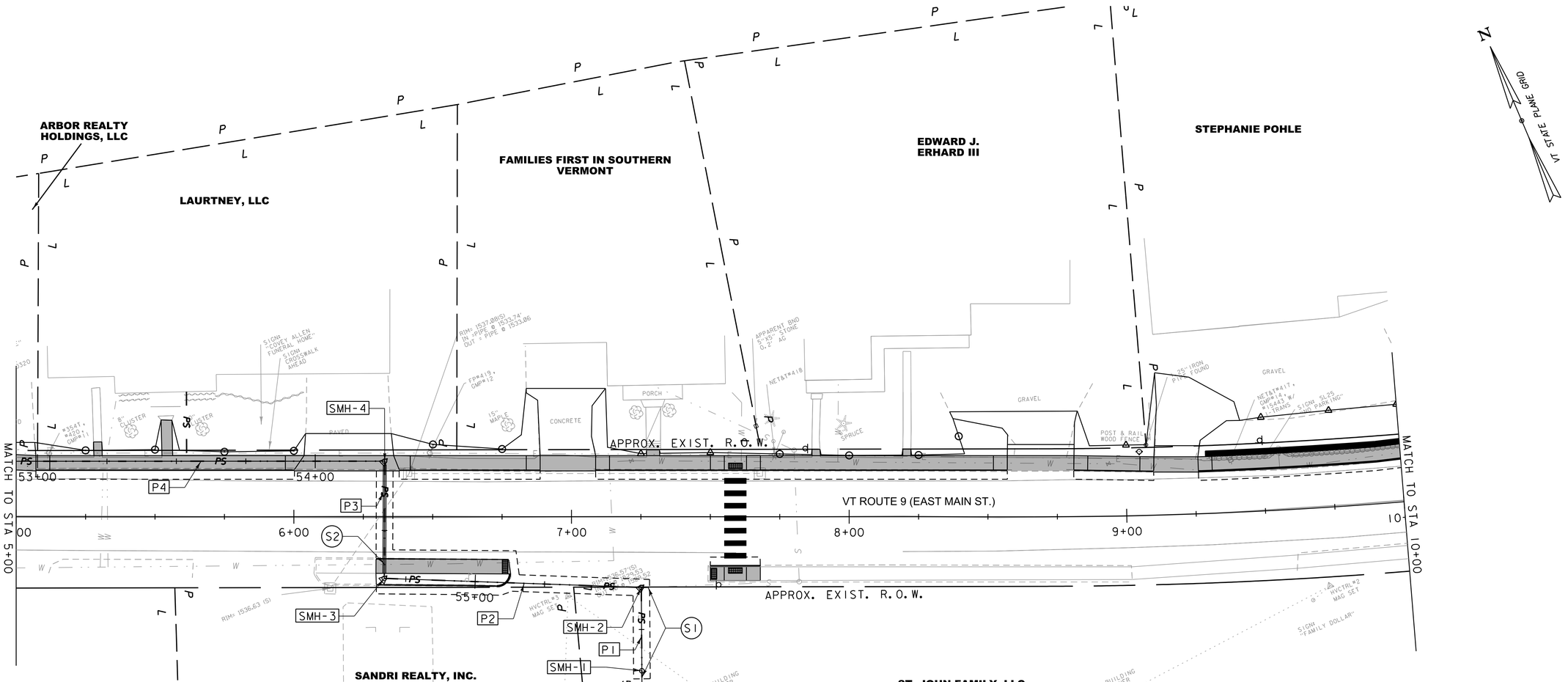
ALL SEWER WORK IS NON-PARTICIPATING.
S3. WYE FITTING.
S4. REMOVE EXISTING SEWERLINE.
S5. ABANDON IN PLACE.
S6. SEE WATER/SEWER SEPARATION DETAIL.

SLEEVES FOR UTILITIES

STA 4+72, RT-LT (10")(SCH. 80 PVC)
(NON-PARTICIPATING)

0 20 40
SCALE IN FEET

PROJECT NAME:	EAST MAIN STREET SIDEWALK
PROJECT NUMBER:	TAP TA 16(4) - STP BP17(13)
FILE NAME: 57923bdr_UT.dgn	PLOT DATE: 2/20/2020
PROJECT LEADER: E.P. DETRICK	DRAWN BY: B.M. ROBERTS
DESIGNED BY: B.M. ROBERTS	CHECKED BY: E.P. DETRICK
UTILITY LAYOUT PLAN (SHEET 1OF 3)	SHEET 16 OF 37



SEWER STRUCTURE NO.	STATION	COMMENTS
SMH-1	55+89.86	4' DIA. SEWER MANHOLE, CAST-IRON-COVER RIM 1536.52' P1 INV IN = 1526.30' (NEW) INV OUT = 1525.91' (EXISTING)
SMH-2	55+59.86	REMOVE EXISTING SEWER MANHOLE INSTALL NEW 4' DIA. SEWER MANHOLE, CAST-IRON-COVER RIM 1536.57' INV IN = 1529.53' (EXISTING) P2 INV IN = 1527.70' (NEW) P1 INV OUT = 1527.53' (NEW)
SMH-3	54+67.25	4' DIA. SEWER MANHOLE, CAST-IRON-COVER RIM 1537.33' P3 INV IN = 1528.49' (NEW) P2 INV OUT = 1528.39' (NEW)
SMH-4	54+25.05	4' DIA. SEWER MANHOLE, CAST-IRON-COVER RIM 1537.3' P4 INV IN = 1529.22' (NEW) P3 INV OUT = 1529.07' (NEW)

SEWER PIPE NO.	INFO
P1	STA. 55+59.86 - 55+89.86 NEW 8" X 30' PVC SDR 35 INV IN 1527.53', INV OUT 1526.30'
P2	STA. 54+67.25 - 55+59.86 NEW 8" X 93' PVC C600 INV IN 1528.39', INV OUT 1527.70'
P3	STA. 54+25.05 - 54+67.25 NEW 8" X 42' PVC C600 WITH 12" PVC SCH. 80 SLEEVE INV IN 1529.07', INV OUT 1528.49'

SLEEVES FOR UTILITIES

STA 6+33, LT-RT (12") (SCH. 80 PVC) (NON-PARTICIPATING)

RELOCATE HYDRANT

STA 9+56 TO STA 9+05, LT

SEWER NOTES:

ALL SEWER WORK IS NON-PARTICIPATING.
S1. PROPOSED SEWER MAIN CONNECTION. TEST PIT TO VERIFY MAIN LOCATION, DEPTH, TYPE, AND SIZE BEFORE ORDERING STRUCTURE AND MATERIALS. CONNECT TO EXISTING SEWERLINE WITH FLEXIBLE COUPLING, AS NECESSARY.
S2. SEE WATER/SEWER SEPARATION DETAIL.

0 20 40
SCALE IN FEET

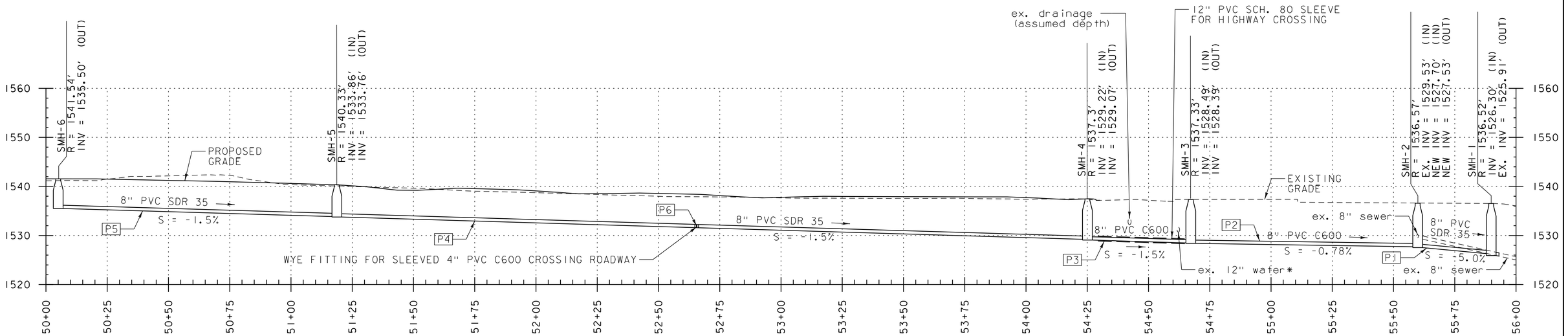
vhb

PROJECT NAME:	EAST MAIN STREET SIDEWALK
PROJECT NUMBER:	TAP TA 16(4) - STP BPI7(13)
FILE NAME: 57923bdr_UT.dgn	PLOT DATE: 2/20/2020
PROJECT LEADER: E.P. DETRICK	DRAWN BY: B.M. ROBERTS
DESIGNED BY: B.M. ROBERTS	CHECKED BY: E.P. DETRICK
UTILITY LAYOUT PLAN (SHEET 2 OF 3)	SHEET 17 OF 37

PROJECT NAME:	EAST MAIN STREET SIDEWALK
PROJECT NUMBER:	TAP TA 16(4) - STP BP17(13)

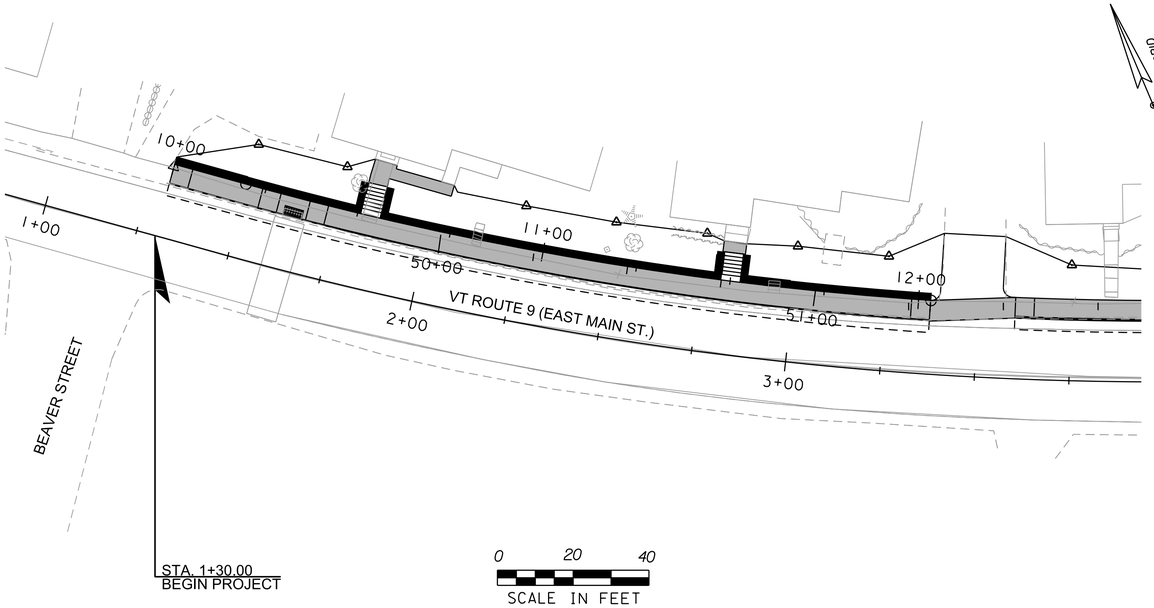
FILE NAME: 57923bdr_UT.dgn
PROJECT LEADER: E.P. DETRICK
DESIGNED BY: B.M. ROBERTS
UTILITY LAYOUT PLAN (SHEET 3 OF 3)

PLOT DATE: 2/20/2020
DRAWN BY: B.M. ROBERTS
CHECKED BY: E.P. DETRICK
SHEET 18 OF 37

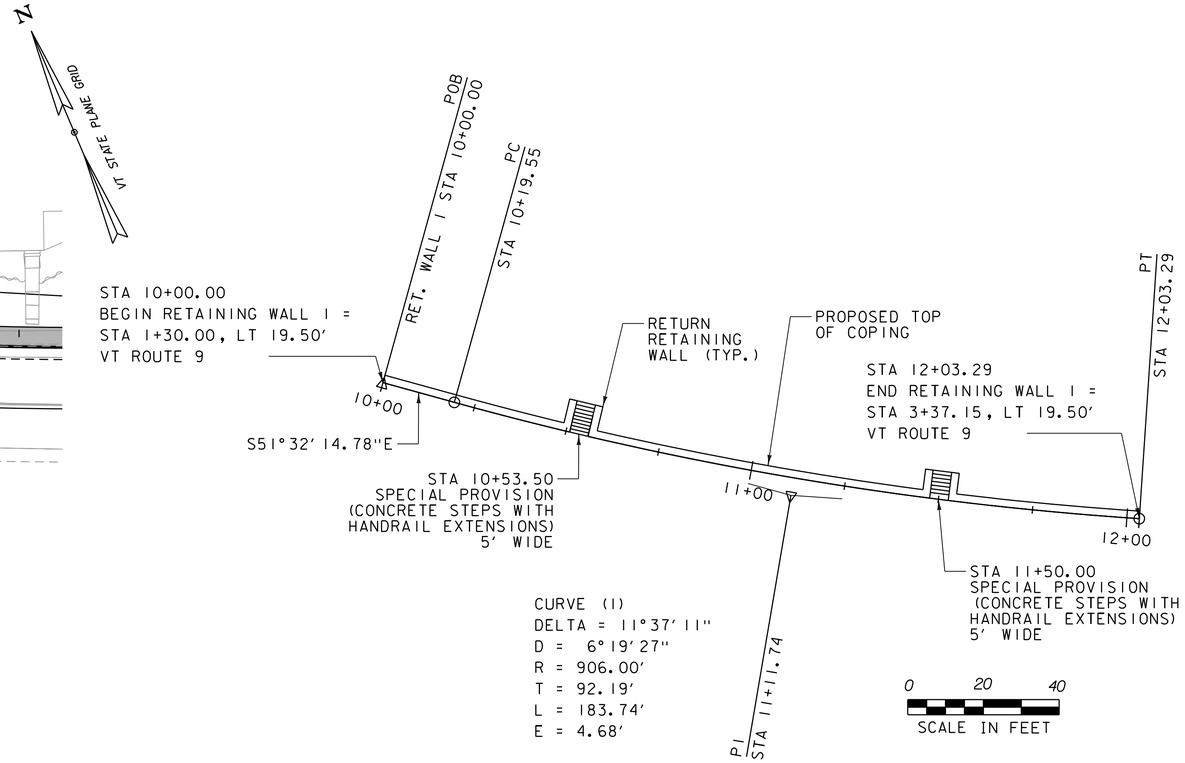


* EXISTING WATER MAIN DEPTH FROM WILMINGTON WATER DISTRICT PROJECT NO. 1224 AS-BUILT PLANS

PROJECT NAME:	WILMINGTON
PROJECT NUMBER:	57923.00
FILE NAME: 57923_sewer_pro.dgn	PLOT DATE: 3/24/2022
PROJECT LEADER: E.P.DETRICK	DRAWN BY: C.K.FORD
DESIGNED BY: C.K.FORD	CHECKED BY: E.P.DETRICK
PROPOSED SEWER PROFILE	SHEET 19 OF 37

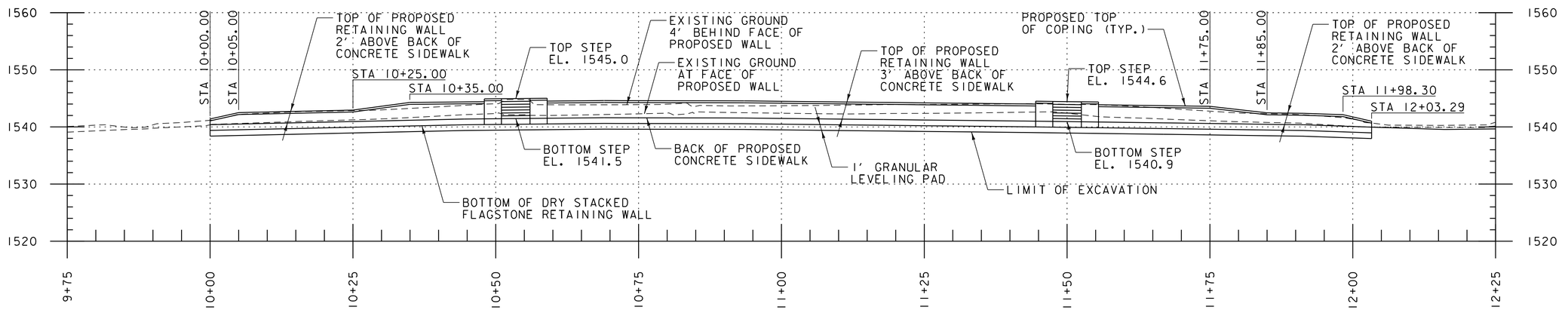


LOCATION PLAN



PLAN VIEW

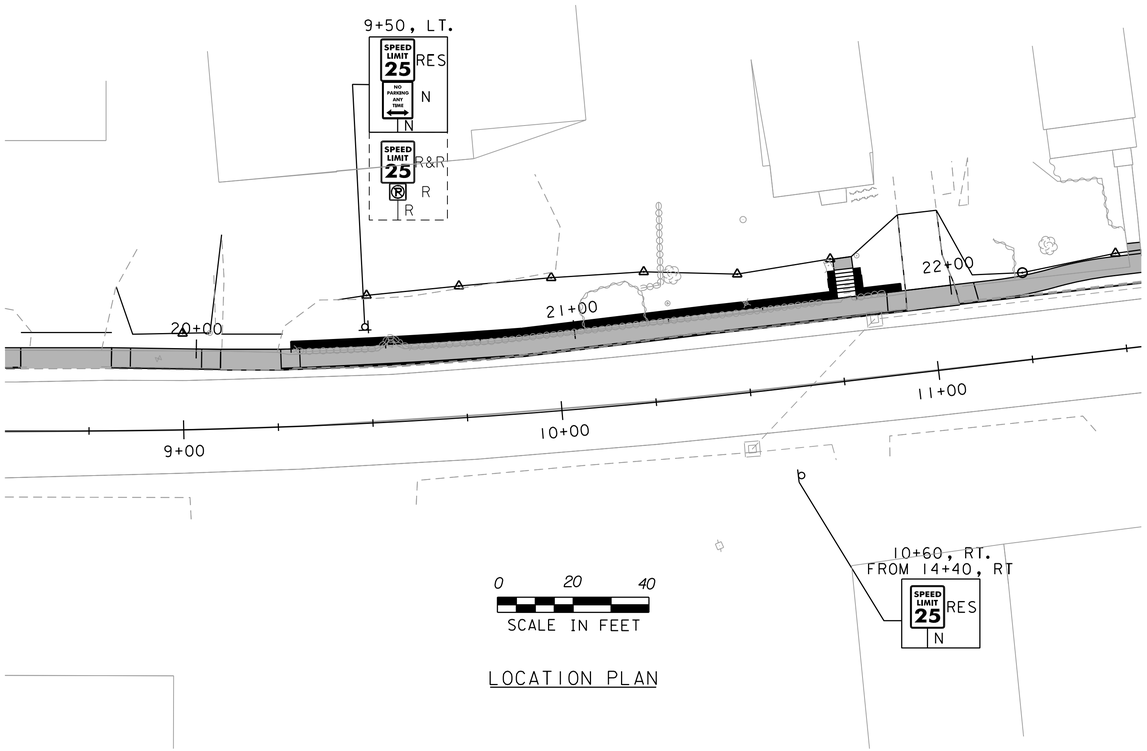
NOTE: RETAINING WALL ELEVATION IS DRAWN FACING LEFT OF THE CENTERLINE WITH DOWN STATION BEING TO THE LEFT AND UP STATION BEING TO THE RIGHT.



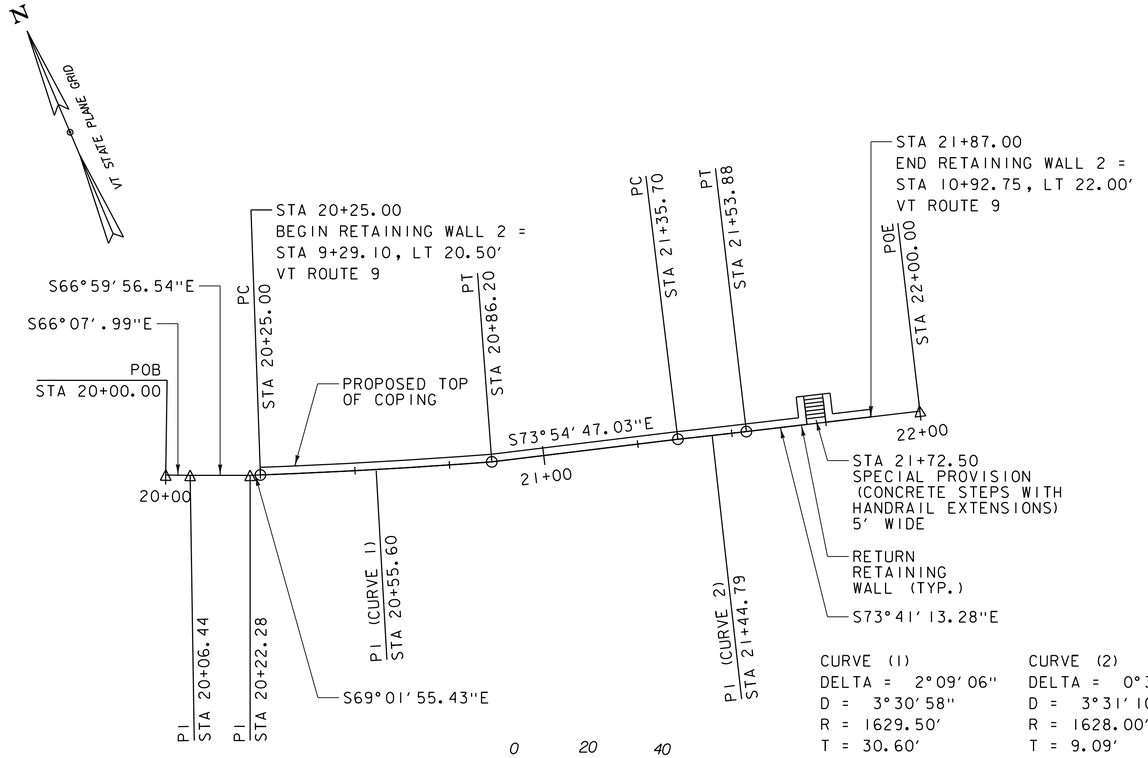
0 40 80
SCALE IN FEET

ELEVATION VIEW

PROJECT NAME:	EAST MAIN STREET SIDEWALK
PROJECT NUMBER:	TAP TA 16(4) - STP BPI7(13)
FILE NAME: 57923_Ret Wall1.dgn	PLOT DATE: 2/20/2020
PROJECT LEADER: E.P. DETRICK	DRAWN BY: B.M. ROBERTS
DESIGNED BY: B.M. ROBERTS	CHECKED BY: E.P. DETRICK
RETAINING WALL 1 PLAN SHEET	SHEET 20 OF 37



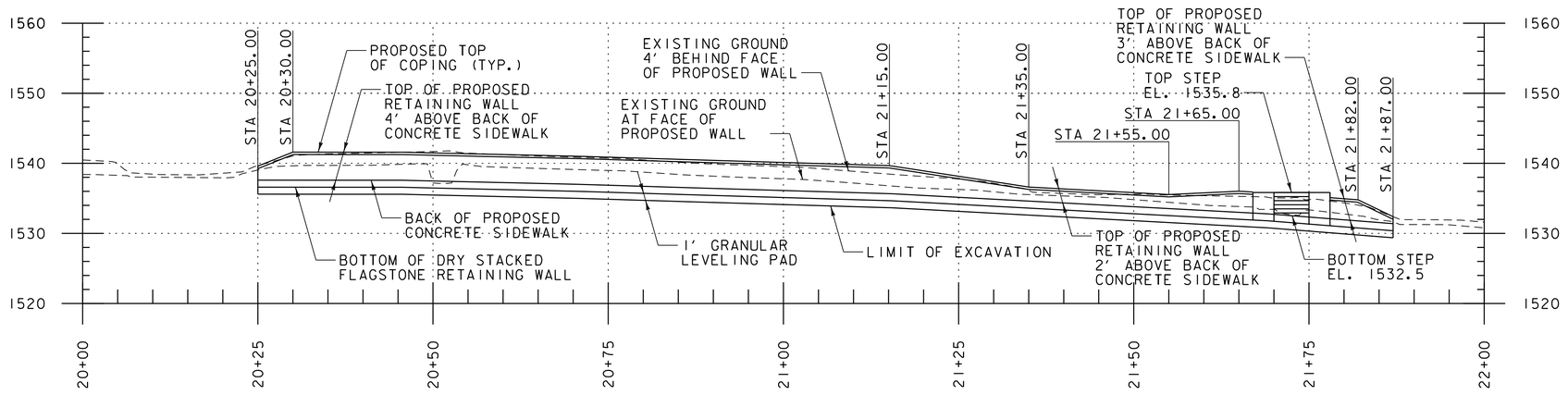
LOCATION PLAN



CURVE (1)	CURVE (2)
DELTA = 2°09'06"	DELTA = 0°38'24"
D = 3°30'58"	D = 3°31'10"
R = 1629.50'	R = 1628.00'
T = 30.60'	T = 9.09'
L = 61.20'	L = 18.18'
E = 0.29'	E = 0.03'

PLAN VIEW

NOTE: RETAINING WALL ELEVATION IS DRAWN FACING LEFT OF THE CENTERLINE WITH DOWN STATION BEING TO THE LEFT AND UP STATION BEING TO THE RIGHT.



ELEVATION VIEW

0 40 80
SCALE IN FEET

PROJECT NAME:	EAST MAIN STREET SIDEWALK
PROJECT NUMBER:	TAP TA 16(4) - STP BP17(13)
FILE NAME: 57923_Ret Wall 2.dgn	PLOT DATE: 2/20/2020
PROJECT LEADER: E.P. DETRICK	DRAWN BY: B.M. ROBERTS
DESIGNED BY: B.M. ROBERTS	CHECKED BY: E.P. DETRICK
RETAINING WALL 2 PLAN SHEET	SHEET 21 OF 37

TRAFFIC SIGN SUMMARY SHEET

MILE MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (IN)	HEIGHT (IN)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL LB/FT 1.12	2.0	3.0	SQUARE STEEL (IN) 1.75	2.0	2.5	LB/FT 1.88	2.42	3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (IN) 3.0	4.0	4.0 MOD	LB/FT 1.3	1.7	1.7	WOOD POST (LF) COLLAR	TYPE 1	TYPE 2	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN REMAINED	SIGN REQUIRED	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
OPTION ITEMS																																									
7+53, RT• 7+85, LT 13+82, LT 13+95, RT		4	30	30	25.0						4					X			X	1																	W11-2 BOY		
		4	24	12	8.0																																W16-7pL BOY		
3+81, LT		1	12	18	1.5						1					X			X																	R7-1 WITH DOUBLE SIDED ARROW MOUNTED ON POST FACING ROADWAY ROW		
9+50, LT		1	12	18	1.5						1					X			X																	R7-1 WITH DOUBLE SIDED ARROW MOUNTED BELOW R2-1 FACING ROADWAY ROW		
10+60, RT							1				1					X			X																	RESET SIGN FROM 14+140, RT		
											FT	FT	FT	FT	FT	FT	EA	LB	LB	LB			TYPE 1	TYPE 2													
															105			1																						
	TOTALS TSS SHEET 1	SF			SF		EA.		SF			FT			FT				LB				EA.	WOOD POSTS (FT)			EA.	EA.	LB									
		36.0													105																							

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE ROADWAY, TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE."

POST LENGTH AVERAGES 15 FEET

POST LENGTH WITH '+' AVERAGES 20 FEET

• - SLEEVE REQUIRED

BOY = BLACK LEGEND ON YELLOW BACKGROUND - PLAQUE
BOW = BLACK LEGEND ON WHITE BACKGROUND - PLAQUE
GOW = GREEN LEGEND ON WHITE BACKGROUND - PLAQUE
ROW = RED LEGEND ON WHITE BACKGROUND - PLAQUE
WOB = WHITE LEGEND ON BLUE BACKGROUND - PLAQUE
WOG = WHITE LEGEND ON GREEN BACKGROUND
FYG = BLACK LEGEND ON FLUORESCENT YELLOW-GREEN BACKGROUND
SHSM = FHWA STANDARD HIGHWAY SIGNS AND MARKINGS BOOK (WITH 2012 SUPPLEMENT)

vhb

PROJECT NAME: EAST MAIN STREET SIDEWALK
PROJECT NUMBER: TAP TA 16(4) - STP BP17(13)

FILE NAME: 57923_tsss.dgn
PROJECT LEADER: E.P. DETRICK
DESIGNED BY: C.K. FORD
TRAFFIC SIGN SUMMARY SHEET

PLOT DATE: 2/20/2020
DRAWN BY: C.K. FORD
CHECKED BY: E.P. DETRICK
SHEET 22 OF 37

TRAFFIC CONTROL NOTES

1. THE CONTRACTOR SHALL SUBMIT A DETAILED TRAFFIC CONTROL PLAN TO THE RESIDENT ENGINEER (R.E.) FOR APPROVAL. THE CONTRACTOR SHALL ALLOW AT LEAST TWO (2) WEEKS FOR REVIEW AND ACCEPTANCE. ALL CHANGES TO THE TRAFFIC CONTROL PLAN MUST BE APPROVED BY THE R.E. MODIFICATIONS TO THE APPROVED TRAFFIC CONTROL PLAN FOR VEHICLES OR PEDESTRIANS SHALL BE SUBMITTED TO THE R.E. AT LEAST TWO WEEKS PRIOR TO THE IMPLEMENTATION OF THE CHANGE.

2. ALL TRAFFIC CONTROL DEVICES SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), VAOT "STANDARD DRAWINGS" AND THE SPECIAL PROVISION. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER. PAYMENT SHALL BE INCIDENTAL TO CONTRACT ITEM 641.11 "TRAFFIC CONTROL, ALL-INCLUSIVE". THE PLAN SHALL ACCOMMODATE VEHICLE TRAFFIC, PEDESTRIAN TRAFFIC, AND EMERGENCY SERVICES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL TEMPORARY SIGNS, PAVEMENT MARKINGS, CHANNELIZING DEVICES, ARROW PANELS, AND OTHER DEVICES REQUIRED TO PROVIDE COMPLETE MANAGEMENT OF TRAFFIC. ANY SIGNS NOT INCLUDED IN THE FHWA STANDARD HIGHWAY SIGNS BOOK SHALL INCLUDE SIGN FACE DIMENSIONS AND LAYOUT.

3. CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS TO ALL COMMERCIAL AND MUNICIPAL PROPERTIES DURING BUSINESS HOURS. PEDESTRIAN ACCESS SHALL MEET ALL APPLICABLE AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS. POSITIVE GUIDANCE SHALL BE PROVIDED TO SEPARATE PEDESTRIAN ACCESS FROM THE WORK AREA AND VERTICAL GRADE CHANGES. ACCESS TO PROPERTIES MAY BE RESTRICTED FOR SHORT DURATIONS OF NOT MORE THAN TWO HOURS WITH THE PERMISSION AND PRIOR NOTIFICATION OF THE OWNER DURING BUSINESS HOURS. CONTRACTOR SHALL COORDINATE MAJOR WORK ADJACENT TO COMMERCIAL AND MUNICIPAL ACCESS AREAS WITH THE OWNER AND TOWN AT LEAST ONE WEEK PRIOR TO STARTING THE WORK IN THE AREA. ALL COSTS ASSOCIATED WITH COORDINATION AND MAINTAINING PEDESTRIAN ACCESS WILL BE CONSIDERED INCIDENTAL TO ITEM 641.11 "TRAFFIC CONTROL, ALL-INCLUSIVE".

4. SEE STANDARD DRAWING T-1 FOR ADDITIONAL INFORMATION.

5. IF LANE CLOSURES OR RESTRICTIONS ARE NEEDED, THE CONTRACTOR SHALL REFER TO TA-10 AND TA-13 OF THE MUTCD FOR GUIDANCE REGARDING ADDITIONAL TRAFFIC CONTROL MEASURES.

6. ACCOMMODATIONS SHOULD BE TAKEN TO ENSURE THAT OBSTACLES, EQUIPMENT, CONSTRUCTION MATERIALS, TRAFFIC CONTROL DEVICES, ETC. DO NOT ENCROACH INTO THE BICYCLE PATH OF TRAVEL. IT IS IMPORTANT THAT BICYCLE ROUTES ARE FREE OF RUTS, SAND AND MUD TO PREVENT BYCICLE CRASHES.

7. THE CONTRACTOR SHALL PROVIDE ACCESS THROUGH THE WORK ZONE FOR EMERGENCY VEHICLES AT ALL TIMES OR COORDINATE EMERGENCY ROUTES.

8. ACCOMMODATIONS FOR POSTAL DELIVERIES, NEWSPAPER ROUTES, TRASH SERVICES AND/OR OTHER DELIVERY SERVICES INTERRUPTED BY THE PROJECT OR DETOUR SHOULD BE COMMUNICATED WITH THE PROPER CONTACTS.

PEDESTRIAN TEMPORARY TRAFFIC CONTROL NOTES

1. THE CONTRACTOR SHALL PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) FOR REVIEW AND WRITTEN APPROVAL BY THE RESIDENT ENGINEER A MINIMUM OF THREE WEEKS BEFORE SUCH PLAN IS IMPLEMENTED. THIS PLAN SHALL DETAIL THE CONSTRUCTION PHASING AND SCHEDULE AND THE SPECIFIC METHODS OF MAINTAINING SAFE PEDESTRIAN ACCESS THROUGHOUT THE CONSTRUCTION AREA. THIS PLAN SHALL PROVIDE THE LOCATION AND DETAILS OF TEMPORARY CONSTRUCTION SIGNING, MARKINGS, BARRICADES, CHANNELIZING DEVICES, TPARs AND METHODS TO MAINTAIN ACCESS TO ADJACENT PROPERTIES, BUSINESSES, RESIDENCES, ETC.

2. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN THROUGH MOVEMENTS FROM ONE END OF THE CONSTRUCTION AREA TO THE OTHER, ON AT LEAST ONE SIDE OF THE STREET DURING CONSTRUCTION. ANY SIDEWALK CLOSURES SHALL MEET THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), PART 6.

3. PEDESTRIAN ACCESS SHALL BE PROVIDED TO ALL ADJACENT PROPERTIES, BUILDINGS, RESIDENCES, COMMERCIAL PROPERTIES AND TRANSIT STOPS. THIS MAY INCLUDE TEMPORARY WALKWAYS SPANNING THE CONSTRUCTION AREA.

4. IF SIDEWALKS ARE CLOSED, A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) SHALL BE PROVIDED ON THE SAME SIDE OF THE ROAD AS THE CLOSED SIDEWALK, IF POSSIBLE. SIGNS AND BARRICADES SHALL BE USED TO PROVIDE ADVANCE NOTICE OF THE CLOSURE AND THE ROUTE OF ANY PEDESTRIAN DETOURS. THE TPAR SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 4 FEET. IF THE TPAR IS LESS THAN 5 FEET IN WIDTH, A 5 FOOT BY 5 FOOT PASSING SPACE SHOULD BE PROVIDED AT LEAST EVERY 200 FEET. THE SURFACE OF THE TPAR SHALL BE SMOOTH AND CONTINUOUS FOR THE LENGTH OF THE TPAR. THE TPAR SHALL MAINTAIN THE SAME LEVEL OF ACCESSIBILITY AND DETECTABILITY AS THE FACILITY THAT IS BEING CLOSED. THE TPAR SHALL NOT LEAD PEDESTRIANS INTO CONFLICTS WITH VEHICLES, EQUIPMENT, OR CONSTRUCTION OPERATIONS.

5. WHEN TEMPORARY CROSSWALKS ARE UTILIZED FOR THE TPAR, TEMPORARY DETECTABLE WARNINGS SHALL BE PLACED AT EACH END OF THE TEMPORARY CROSSWALKS. THE TEMPORARY CROSSWALK SHALL BE DELINEATED WITH TEMPORARY PAVEMENT MARKINGS OR TAPE. THE MARKINGS SHALL BE PARALLEL 12-INCH-WIDE WHITE LINES PLACED 7 FEET ON CENTER APART. IT SHOULD BE NOTED THAT CURB PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF MIDBLOCK CROSSWALKS. TEMPORARY CROSSWALK SIGNS SHALL BE PROVIDED FOR THE CROSSWALK.

6. IF THERE IS WORK OCCURRING OVER AN OPEN SIDEWALK, PROTECTIVE OVERHEAD COVERING MUST BE PROVIDED AS NECESSARY TO ENSURE PROTECTION FROM FALLING OBJECTS AND DRIPPING FROM OVERHEAD STRUCTURES. COVERED WALKWAYS SHOULD BE STURDILY CONSTRUCTED AND ADEQUATELY LIGHTED FOR NIGHTTIME USE.

7. INDIVIDUAL CHANNELIZING DEVICES, TAPE, OR ROPE USED TO CONNECT INDIVIDUAL DEVICES AND OTHER DISCONTINUOUS BARRIERS AND DEVICES, PAVEMENT MARKINGS ARE NOT DETECTABLE BY PERSONS WITH VISUAL DISABILITIES. THESE MEASURES DO NOT PROVIDE ACCEPTABLE PATH GUIDANCE ON TEMPORARY OR RE-ALIGNED SIDEWALKS OR OTHER PEDESTRIAN FACILITIES. PEDESTRIAN CHANNELIZING DEVICES SHALL INCLUDE A CONTINUOUSLY DETECTABLE BOTTOM AND TOP EDGE THROUGHOUT THE LENGTH OF THE FACILITY SUCH THAT IT CAN BE FOLLOWED BY PEDESTRIANS USING LONG CANES FOR GUIDANCE.

8. CHANNELIZING DEVICES ON BOTH SIDES OF THE TPAR SHALL INCLUDE A CONTINUOUS SOLID TOP AND BOTTOM RAILS. THE TOP EDGE OF THE TOP RAIL SHALL BE BETWEEN 32 INCHES AND 38 INCHES ABOVE THE GROUND LEVEL. THE BOTTOM RAIL SHALL BE AT LEAST 6 INCHES WIDE, WITH THE BOTTOM EDGE OF THE BOTTOM RAIL SURFACE NO HIGHER THAN 2 INCHES ABOVE THE GROUND.

PEDESTRIAN TEMPORARY TRAFFIC CONTROL NOTES (CONTINUED)

9. IF THE TPAR IS ADJACENT TO MOVING TRAFFIC, CONSTRUCTION OPERATIONS/EQUIPMENT, OR DROP-OFFS, THEN CRASH WORTHY CHANNELIZING DEVICES THAT MEET THE REQUIREMENTS OF THE MUTCD SHALL BE USED.

10. THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION MATERIALS, EQUIPMENT OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL.

11. PROVISION OF THE TPAR AND ALL ITS ELEMENTS, INCLUDING BUT NOT LIMITED TO SIGNS, CHANNELIZING DEVICES, BARRICADES, TEMPORARY CURB RAMPS, TEMPORARY PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES IS TO BE PAID FOR INCIDENTAL TO TRAFFIC CONTROL (ITEM 641.11).

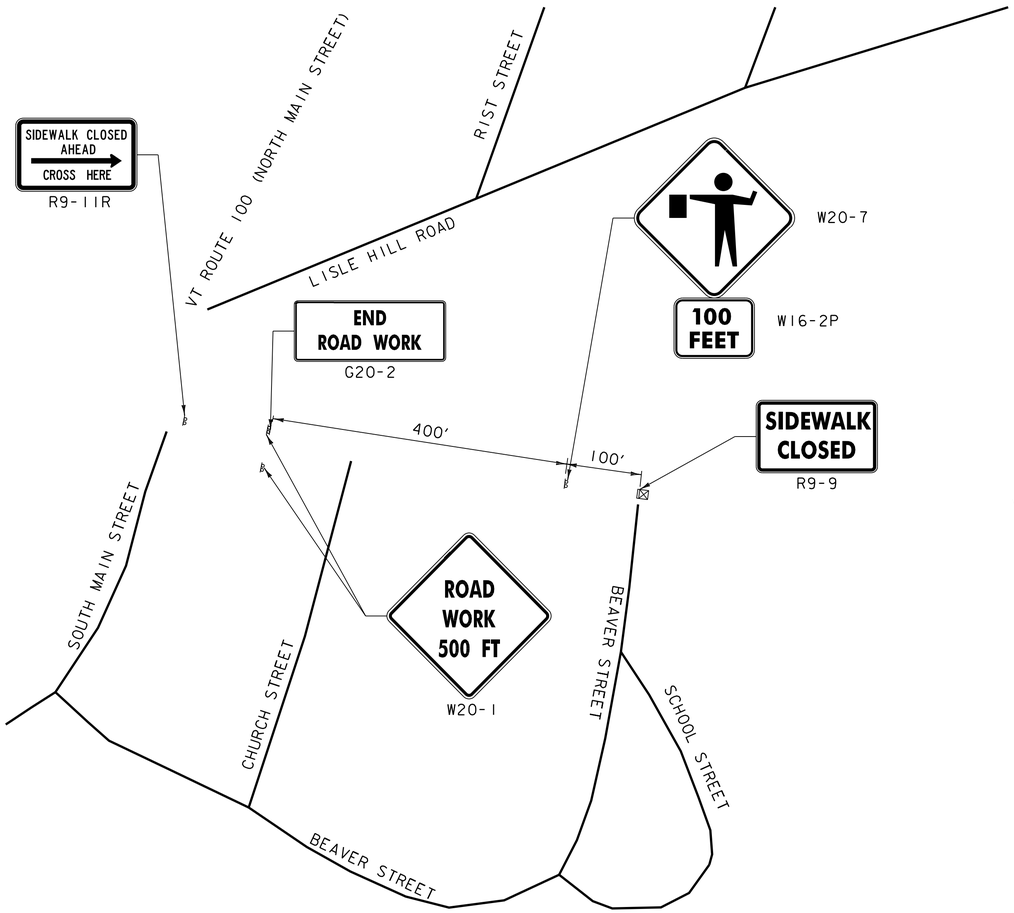
12. IF THE TEMPORARY TRAFFIC PLAN AFFECTS THE MOVEMENT OF PEDESTRIANS, ADEQUATE PEDESTRIAN ACCESS AND WALKWAYS SHALL BE PROVIDED. IF THE TTC ZONE AFFECTS THE ACCESSIBLE AND DETECTABLE PEDESTRIAN FACILITY, THE ACCESSIBILITY AND THE DETECTABILITY SHALL BE MAINTAINED ALONG THE ALTERNATE PEDESTRIAN ROUTE.

vhb

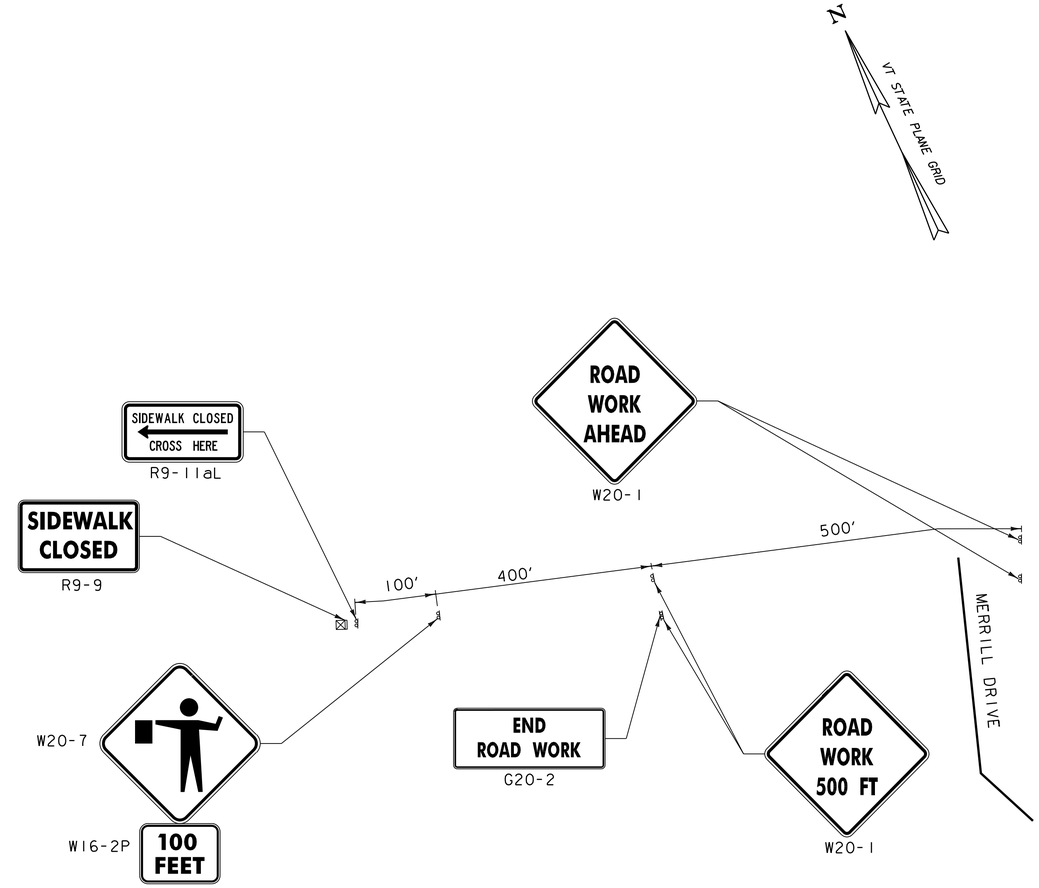
PROJECT NAME: EAST MAIN STREET SIDEWALK
PROJECT NUMBER: TAP TA 16(4) - STP BPI7(13)

FILE NAME: 57923_TCP.dgn
PROJECT LEADER: E.P. DETRICK
DESIGNED BY: B.M. ROBERTS
TRAFFIC CONTROL NARRATIVE

PLOT DATE: 2/20/2020
DRAWN BY: B.M. ROBERTS
CHECKED BY: E.P. DETRICK



VT ROUTE 9 (EAST MAIN STREET)



NOTE: R9-9 SIGNS SHALL BE MOUNTED ON TYPE III BARRICADES

CONSTRUCTION APPROACH SIGNAGE

NOT TO SCALE

PROJECT NAME:	EAST MAIN STREET SIDEWALK
PROJECT NUMBER:	TAP TA 16(4) - STP BP17(13)
FILE NAME: 57923_TCP.dgn	PLOT DATE: 2/20/2020
PROJECT LEADER: E.P. DETRICK	DRAWN BY: B.M. ROBERTS
DESIGNED BY: B.M. ROBERTS	CHECKED BY: E.P. DETRICK
CONSTRUCTION APPROACH SIGNING SHEET	SHEET 24 OF 37

EPSC PLAN NARRATIVE

1.1 PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE RECONSTRUCTION OF SIDEWALK ALONG THE NORTH SIDE OF VT ROUTE 9 STARTING ACROSS FROM THE INTERSECTION WITH BEAVER STREET, AND EXTENDING EASTERLY ALONG VT ROUTE 9 FOR APPROXIMATELY 1284 FEET WHERE IT TIES INTO EXISTING SIDEWALK AT THE WESTERN APPROACH OF THE BRIDGE OVER BEAVER BROOK. THE PROJECT ALSO INCLUDES DRIVE IMPROVEMENTS, NEW GRANITE CURB, AND STREETSCAPE ENHANCEMENTS TO INCLUDE LIGHTING AND FLAGSTONE WALLS. LIMITS OF EARTH DISTURBANCE ARE SHOWN IN THE ATTACHED PLANS.

TOTAL AREA OF EARTH DISTURBANCE IS APPROXIMATELY 0.43 ACRES. IT IS ANTICIPATED THAT THIS PROJECT WILL LAST ONE CONSTRUCTION SEASON.

1.2 SITE INVENTORY

1.2.1 TOPOGRAPHY
THE PROJECT LIES ON THE OUTSKIRTS OF THE TOWN VILLAGE. THERE ARE HOMES LOCATED ON THE NORTH SIDE OF VT ROUTE 9, HOMES AND COMMERCIAL BUILDINGS RESIDE ON THE SOUTH SIDE.

1.2.2 DRAINAGE, WATERWAYS, BODIES OF WATER, AND PROXIMITY TO NATURAL OR MAN-MADE WATER FEATURES
BEAVER BROOK IS THE ONLY WATER SOURCE NEAR THE CONSTRUCTION SITE. THE EXISTING STORMWATER COLLECTION SYSTEM AT THE EASTERLY END OF THE PROJECT DISCHARGES DIRECTLY INTO THE BROOK VIA AN OUTLET PIPE. THE TRIBUTARY AREA OF BEAVER BROOK AT THE BRIDGE IS APPROXIMATELY 7.9 SQUARE MILES.

1.2.3 VEGETATION
THERE IS LITTLE VEGETATION WITHIN THE PROJECT AREA. PERVIOUS AREAS SURROUNDING THE SIDEWALK ARE COMPRISED OF LAWN AREAS. IMPACT TO THE VEGETATION WILL BE LIMITED TO THE RE-GRADING OF THE LAWN AREAS AND THE ADDITION OF TWO LANDSCAPED RETAINING WALLS TO TIE IN THE EXISTING GROUND WITH THE NEW SIDEWALK. DISTURBED PERVIOUS AREAS WILL BE RE-ESTABLISHED WITH STANDARD SEED AND MULCH PRACTICES.

1.2.4 SOILS
ALL SOIL DATA CAME FROM THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE FOR THE COUNTY OF WINDHAM, VERMONT. SOILS IN THE PROJECT SITE ARE COLTON LOAMY FINE SAND, 2% TO 8% SLOPES, “K FACTOR” = 0.1. THE SOIL IS CONSIDERED MODERATELY ERODIBLE DUE TO SIGNIFICANT SLOPES.

NOTE: K-VALUES GENERALLY INDICATE THE FOLLOWING:
0.0-0.23 = LOW EROSION POTENTIAL
0.24-0.36 = MODERATE EROSION POTENTIAL
0.37 AND HIGHER = HIGH EROSION POTENTIAL

1.2.5 SENSITIVE RESOURCE AREAS
CRITICAL HABITATS: NO
HISTORICAL OR ARCHEOLOGICAL AREAS: YES
PRIME AGRICULTURAL LAND: NO
THREATENED AND ENDANGERED SPECIES: NO
WATER RESOURCE: BEAVER BROOK
WETLANDS: NO

1.3 RISK EVALUATION

THIS PROJECT IS A “LOW RISK” PROJECT, AND DOES NOT FALL UNDER THE JURISDICTION OF GENERAL PERMIT 3-9020 FOR STORMWATER RUNOFF FROM CONSTRUCTION SITES. SHOULD CHANGES PRIOR TO OR DURING CONSTRUCTION RESULT IN ONE OR MORE ACRES OF EARTH DISTURBANCE OR SHOULD THE PROJECT BECOME PART OF A LARGER PLAN OF DEVELOPMENT, THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY ADDITIONAL PERMITTING.

1.4 EROSION PREVENTION AND SEDIMENT CONTROL

THE EROSION CONTROL NARRATIVE AND DETAILS ARE MEANT AS A GUIDELINE FOR PREVENTING EROSION AND CONTROLLING SEDIMENT TRANSPORT. THE PRINCIPLES OUTLINED IN THIS NARRATIVE CONSIST OF APPLYING MEASURES THROUGHOUT CONSTRUCTION OF THE PROJECT IN ORDER TO MINIMIZE SEDIMENT TRANSPORT TO THE RECEIVING WATERS. THE MEASURES INCLUDE STABILIZATION AND STRUCTURAL PRACTICES, STORM WATER CONTROLS AND OTHER POLLUTION PREVENTION PRACTICES. THEY HAVE BEEN PROPOSED BY THE DESIGNER AS A BASIS FOR PROTECTING RESOURCES AND WILL NEED TO BE BUILT UPON BASED ON THE SPECIFC MEANS AND METHODS OF THE CONTRACTOR. REFER TO THE LOW RISK SITE HANDBOOK AND APPROPRIATE DETAIL SHEETS FOR SPECIFIC GUIDANCE AND CONSTRUCTION DETAILING.

ALL MEASURES SHALL BE REGULARLY MAINTAINED AND SHALL BE CHECKED FOR SEDIMENT BUILD-UP. SEDIMENT SHALL BE DISPOSED OF AT AN APPPROVED SITE WHERE IT WILL NOT BE SUBJECT TO EROSION.

1.4.1 MARK SITE BOUNDARIES
SITE BOUNDARIES AND AREAS CONSTRUCTION EQUIPMENT CAN ACCESS SHALL BE DELINEATED.

PROJECT DEMARCATION FENCING (PDF) SHALL BE USED TO PHYSICALLY MARK SITE BOUNDARIES.

1.4.2 LIMIT DISTURBANCE AREA
PREVENTING INITIAL SOIL EROSION BY MINIMIZING THE EXPOSED AREA IS MUCH MORE EFFECTIVE THAN TREATING ERODED SEDIMENT. EARTH DISTURBANCE CAN BE MINIMIZED THROUGH CONSTRUCTION PHASING BY ONLY OPENING EARTH AS NECESSARY. THIS CAN LIMIT THE AREA THAT WILL BE DISTURBED AND EXPOSED TO EROSION. EMPLOY TEMPORARY CONSTRUCTION STABILIZATION PRACTICES IN INCREMENTAL STAGES AS PHASES CHANGE. FOR PROJECTS WHICH FALL UNDER THE CONSTRUCTION GENERAL PERMIT, ONLY THE ACREAGE LISTED ON THE PERMIT AUTHORIZATION MAY BE EXPOSED AT ANY GIVEN TIME.

MAINTAINING VEGETATED BUFFERS ALONG STREAM BANKS, WETLANDS OR OTHER SENSITIVE AREAS ARE A CRUCIAL EROSION AND SEDIMENT CONTROL MEASURE THAT SHOULD BE ESTABLISHED WHEREVER POSSIBLE.

1.4.3 SITE ENTRANCE/EXIT STABILIZATION
TRACKING OF SEDIMENT ONTO PUBLIC HIGHWAYS SHALL BE MINIMIZED TO REDUCE THE POTENTIAL FOR RUNOFF ENTERING RECEIVING WATERS. INSTALLATION SHALL COINCIDE WITH THE CONTRACTORS PROGRESS SCHEDULE.

1.4.4 INSTALL SEDIMENT BARRIERS
SEDIMENT BARRIERS SHALL BE UTILIZED TO INTERCEPT RUNOFF AND ALLOW SUSPENDED SEDIMENT TO SETTLE OUT. THEY SHALL BE INSTALLED PRIOR TO ANY UP SLOPE WORK.

SILT FENCE WILL BE INSTALLED AS DIRECTED BY THE RESIDENT. INLET PROTECTION DEVICES WILL BE INSTALLED AROUND DROP INLETS AND CATCH BASINS.

1.4.5 DIVERT UPLAND RUNOFF
DIVERSIONARY MEASURES SHALL BE USED TO INTERCEPT RUNOFF FROM ABOVE THE CONSTRUCTION AND DIRECT IT AROUND THE DISTURBED AREA SO THAT CLEAN WATER DOES NOT BECOME MUDDIED WHILE TRAVELING OVER EXPOSED SOILS ON THE CONSTRUCITON SITE.

DIVERSIONARY MEASURES ARE NOT ANTICIPATED DUE TO THE PRESENCE OF EXISTING STORMWATER INFRASTRUCTURE UPSTREAM OF THE PROJECT AREA.

1.4.6 SLOW DOWN CHANNELIZED RUNOFF
CHECK STRUCTURES SHALL BE UTILIZED TO REDUCE THE VELOCITY, AND THUS THE EROSIVE POTENTIAL, OF CONCENTRATED FLOW IN CHANNELS.

CHECK STRUCTURES ARE NOT ANTICIPATED DUE TO THE PROJECT SCOPE OF WORK.

1.4.7 CONSTRUCT PERMANENT CONTROLS
PERMANENT STORMWATER TREATMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH PERMIT CONDITIONS.

NEW PERMANENT CONTROLS ARE NOT ANTICIPATED DUE TO THE PROJECT SCOPE OF WORK. EXISTING DROP INLETS ALONG THE NEW CURB FACE SHALL BE ADJUSTED AS NECESSARY.

1.4.8 STABILIZE EXPOSED SOILS DURING CONSTRUCTION
ALL AREAS OF DISTURBANCE MUST HAVE TEMPORARY STABILIZATION IN PLACE WITHIN 48 HOURS OF DISTURBANCE OR IN ACCORDANCE WITH THE CONSTRUCTION GENERAL PERMIT 3-9020 AUTHORIZATION.

SURFACE ROUGHENING OF ALL EXPOSED SLOPES, COMBINED WITH TEMPORARY MULCHING, SHALL BE UTILIZED ON A REGULAR BASIS. BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED TO STABILIZE ALL SLOPES STEEPER THAN 1:3.
THE FORECAST OF RAINFALL EVENTS SHALL TRIGGER IMMEDIATE PROTECTION OF EXPOSED SOILS.

1.4.9 WINTER STABILIZATION
VARIOUS MEASURES SPECIFIC TO WINTER MAY BE NECESSARY SHOULD THE PROJECT EXTEND INTO WINTER (OCTOBER 15 THROUGH APRIL 15). DISTURBED EARTH AREAS SHOULD BE STABILIZED WITH EROSION MATTING AND A WINTER RYE SEED MIX. FOR ADDITIONAL GUIDANCE REFER TO THE LOW RISK SITE HANDBOOK.

1.4.10 STABILIZE SOIL AT FINAL GRADE
EXPOSED SOIL MUST BE STABILIZED WITHIN 48 HOURS OF REACHING FINAL GRADE.

SEED, MULCH, FERTILIZER AND LIME SHALL BE USED TO ESTABLISH PERMANENT VEGETATION. FOR SLOPES STEEPER THAN 1:3, BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED INSTEAD OF MULCH.

1.4.11 DE-WATERING ACTIVITIES
DISCHARGE FROM DEWATERING ACTIVITIES THAT FLOWS OFF OF THE CONSTRUCTION SITE MUST NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF THE VERMONT WATER QUALITY STANDARDS.

NO DE-WATERING ACTIVITIES ARE ANTICIPATED FOR THIS PROJECT.

1.4.12 INSPECT YOUR SITE
INSPECT THE PROJECT SITE BASED ON SPECIAL PROVISION REQUIREMENTS OR CONSTRUCTION GENERAL PERMIT AUTHORIZATION STIPULATIONS.

1.5 SEQUENCE AND STAGING

THIS SECTION WILL BE DEVELOPED BY THE CONTRACTOR USING THE GUIDANCE OUTLINED IN THE VTRANS EPSC PLAN CONTRACTOR CHECKLIST.

1.5.1 CONSTRUCTION SEQUENCE

1.5.2 OFF-SITE ACTIVITIES
IN ADDITION TO THE CONTRACTOR CHECKLIST ANY ACTIVITIES OUTSIDE THE CONSTRUCTION LIMITS SHALL FOLLOW SPECIFICATION 105.25 - 105.29 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.

1.5.3 UPDATES

vhb

PROJECT NAME: EAST MAIN STREET SIDEWALK
PROJECT NUMBER: TAP TA 16(4) - STP BPI7(13)

FILE NAME: 57923_EPSC_narrative.dgn
PROJECT LEADER: E.P. DETRICK
DESIGNED BY: B.M. ROBERTS
EPSC NARRATIVE

PLOT DATE: 2/20/2020
DRAWN BY: B.M. ROBERTS
CHECKED BY: E.P. DETRICK
SHEET 25 OF 37

VAOT URBAN LAWN MIX						
	LBS/AC					
WEIGHT	BROADCAST	HYDROSEED	NAME	LATIN NAME	GERM	PURITY
42.5%	34	68	CREEPING RED FESCUE	FESTUCA RUBRA X RUBRA	85%	98%
20.0%	16	32	PERENNIAL RYE GRASS	LOLIUM PERENNE	90%	95%
32.5%	26	52	KENTUCKY BLUE GRASS	POA PRATENSIS	85%	85%
5.0%	4	8	ANNUAL RYE GRASS	LOLIUM MULTIFLORUM	85%	95%
100%	80	160				

GENERAL AMENDMENT GUIDANCE		
FERTILIZER	LIME	
10/20/10	AG LIME	PELLITIZED
500 LBS/AC	2 TONS/AC	1 TONS/AC

CONSTRUCTION GUIDANCE

1. SEED MIX: THE URBAN AREA MIX SHALL NOT BE USED IN WETLANDS OR ANY WATERS OF THE STATE OF VERMONT.
2. SEED MIX: USE ONLY AS INDICATED IN THE PLANS.
3. SEED MIX: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
4. FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER
5. HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.
6. HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED
7. TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

ADAPTED FROM VTRANS TECHNICAL LANDSCAPE MANUAL FOR ROADWAYS AND TRANSPORTATION FACILITIES

TURF ESTABLISHMENT

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 651 FOR SEED (PAY ITEM 651.15)

REVISIONS

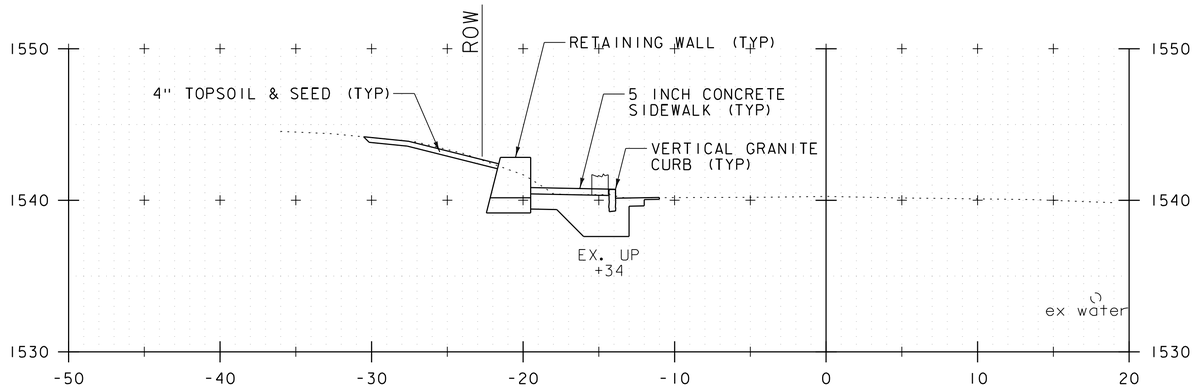
JANUARY 22, 2015 WHF

PROJECT NAME: EAST MAIN STREET SIDEWALK

PROJECT NUMBER: TAP TA 16(4) - STP BP17(13)

FILE NAME: 57923_epsc_det.dgn
PROJECT LEADER: E.P. DETRICK
DESIGNED BY: VTRANS
EPSC DETAILS SHEET

PLOT DATE: 2/20/2020
DRAWN BY: B.M. ROBERTS
CHECKED BY: E.P. DETRICK
SHEET 26 OF 37



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BEGIN PROJECT
TAP TA 16(4) - STP BP17(13)

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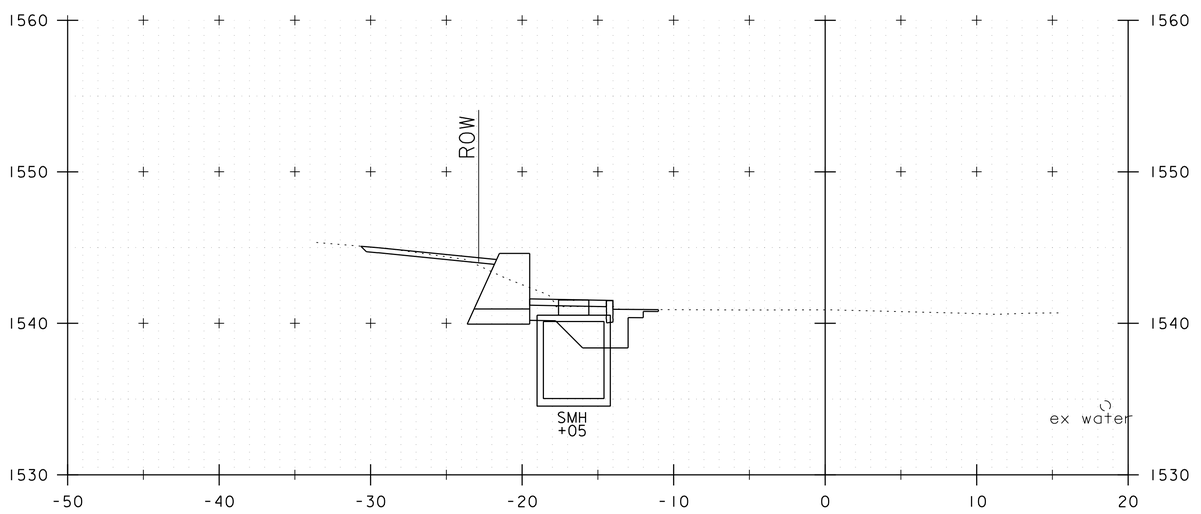

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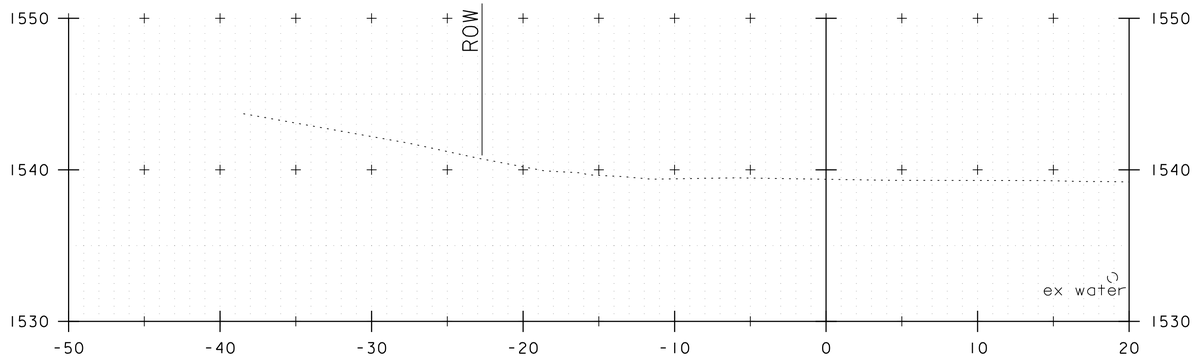

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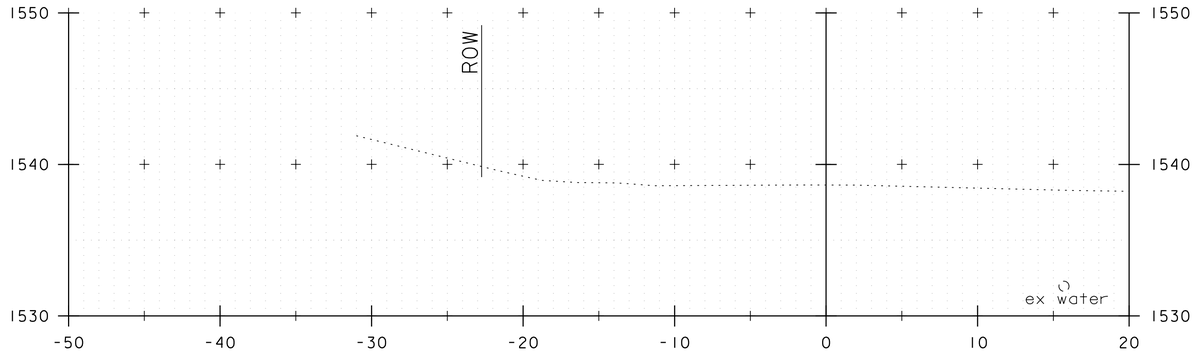

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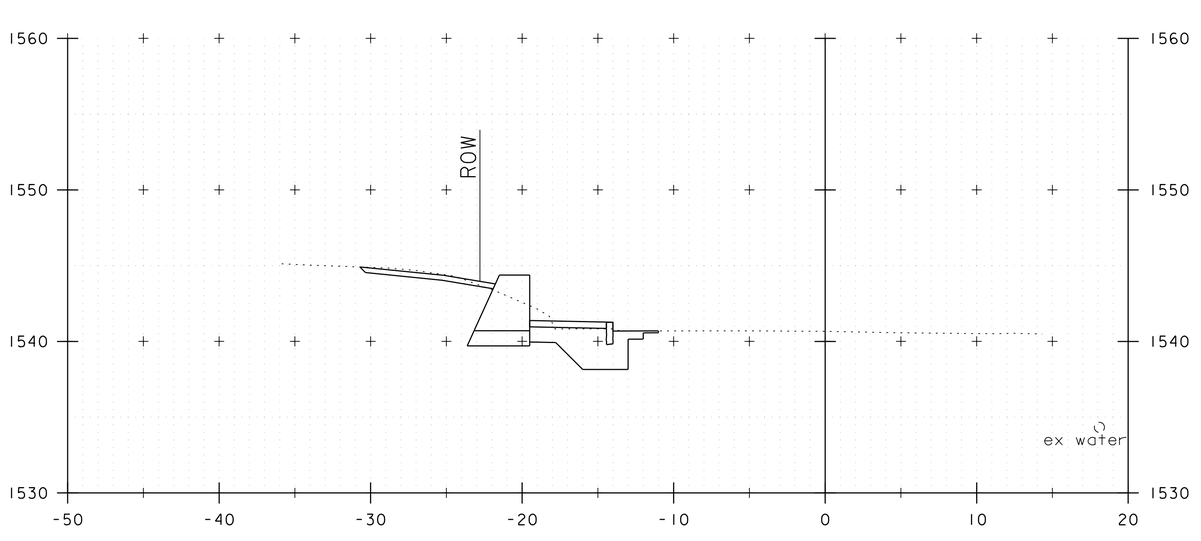

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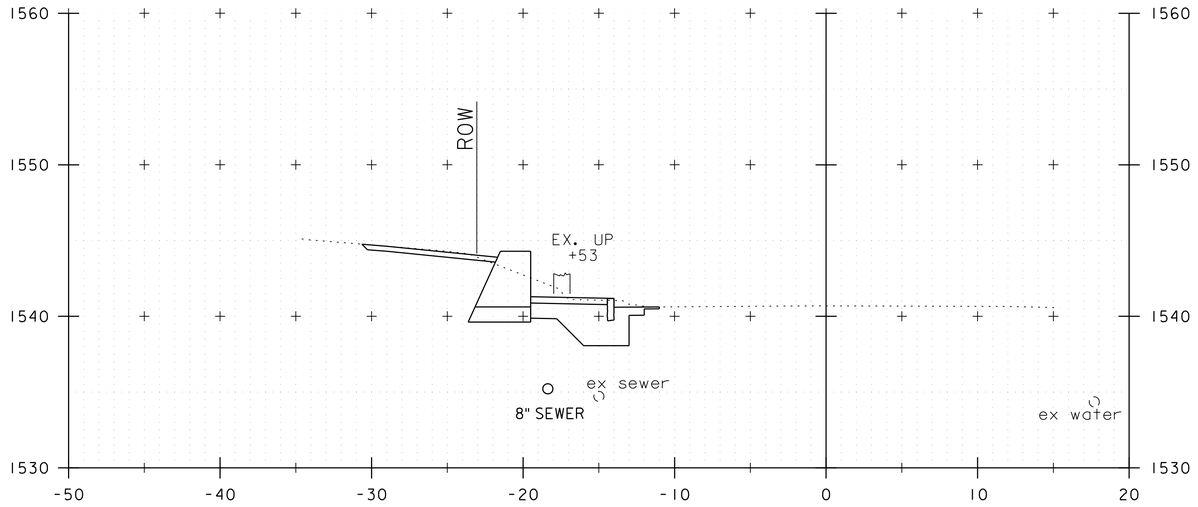
SCALE IN FEET

vhb

PROJECT NAME:	EAST MAIN STREET SIDEWALK
PROJECT NUMBER:	TAP TA 16(4) - STP BP17(13)
FILE NAME: 57923xs.dgn	PLOT DATE: 2/20/2020
PROJECT LEADER: E.P. DETRICK	DRAWN BY: B.M. ROBERTS
DESIGNED BY: B.M. ROBERTS	CHECKED BY: E.P. DETRICK
CROSS SECTION SHEET 1	SHEET 27 OF 37



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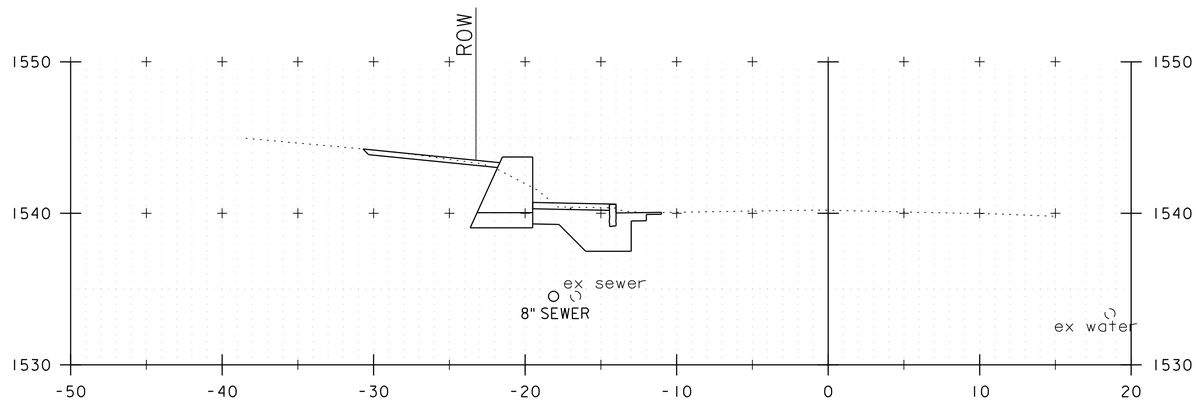

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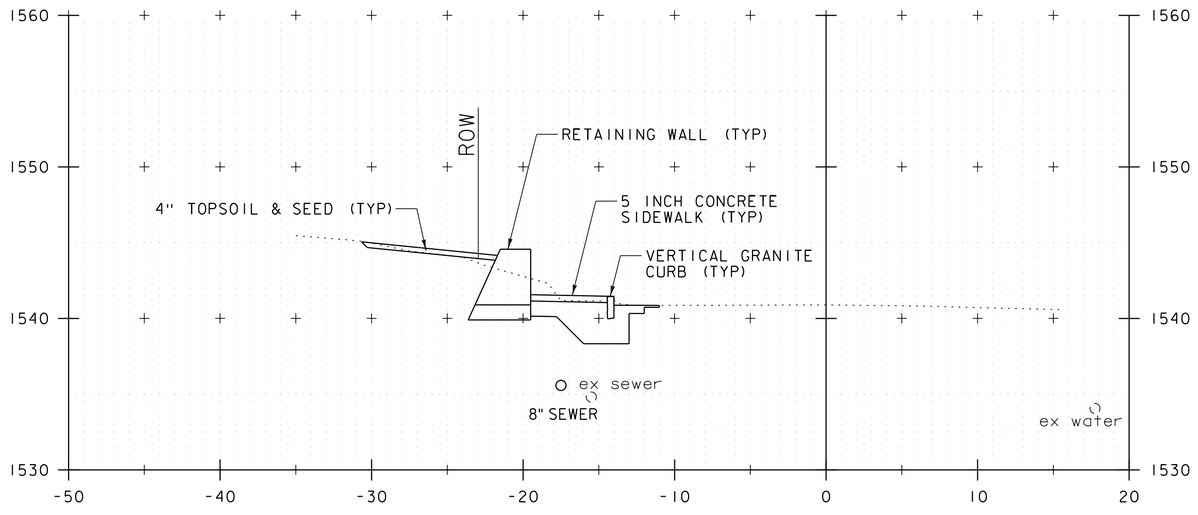

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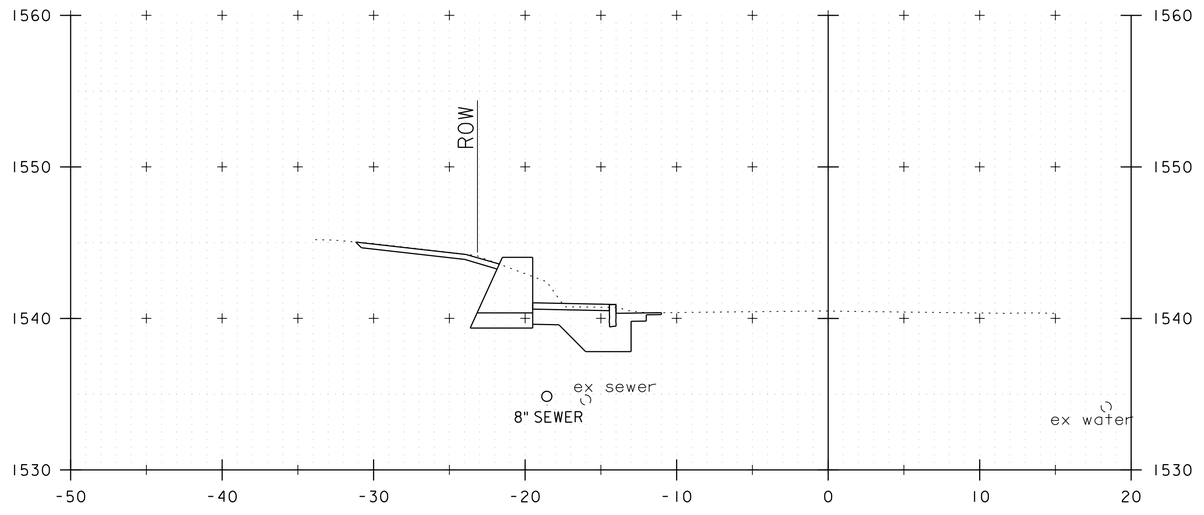

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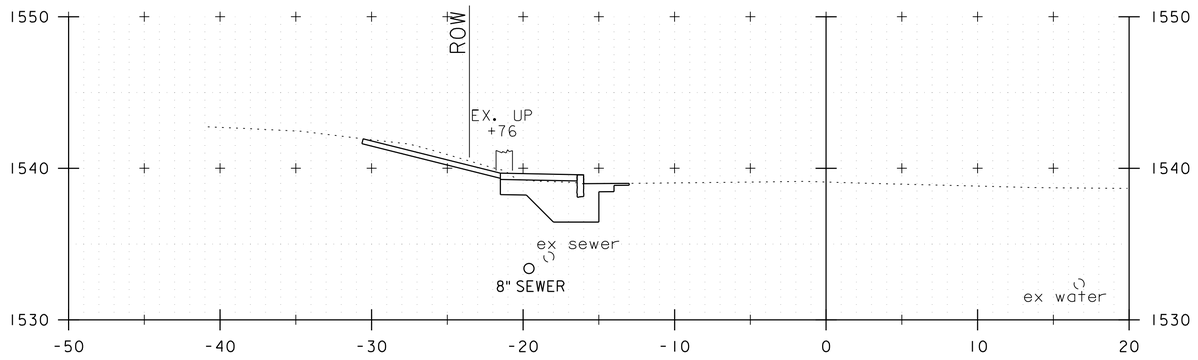
SCALE IN FEET

vhb

PROJECT NAME:	EAST MAIN STREET SIDEWALK
PROJECT NUMBER:	TAP TA 16(4) - STP BP17(13)

FILE NAME: 57923xs.dgn	PLOT DATE: 2/20/2020
PROJECT LEADER: E.P. DETRICK	DRAWN BY: B.M. ROBERTS
DESIGNED BY: B.M. ROBERTS	CHECKED BY: E.P. DETRICK
CROSS SECTION SHEET 2	SHEET 28 OF 37



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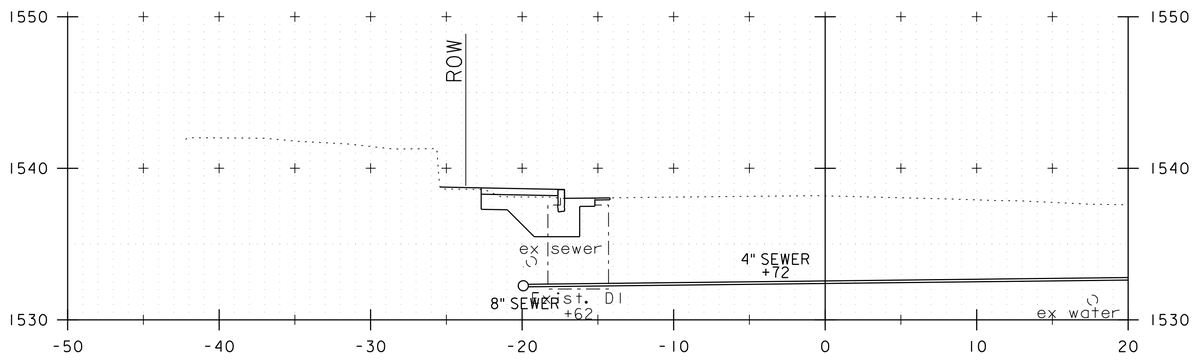

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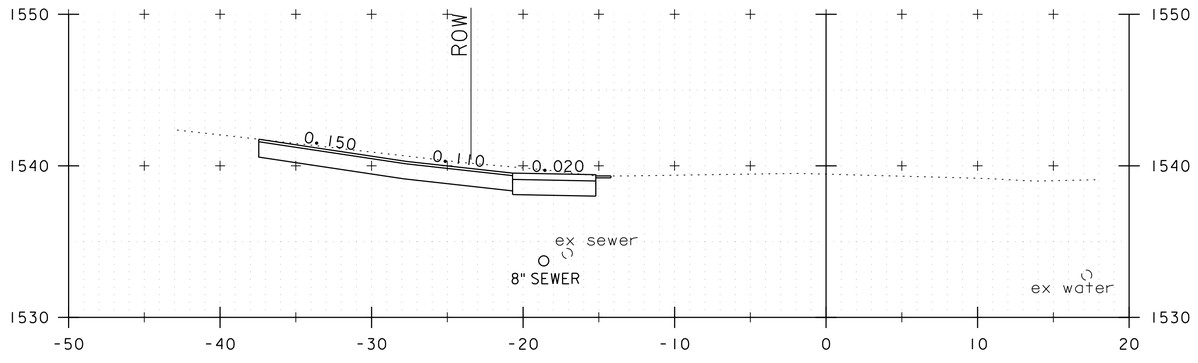

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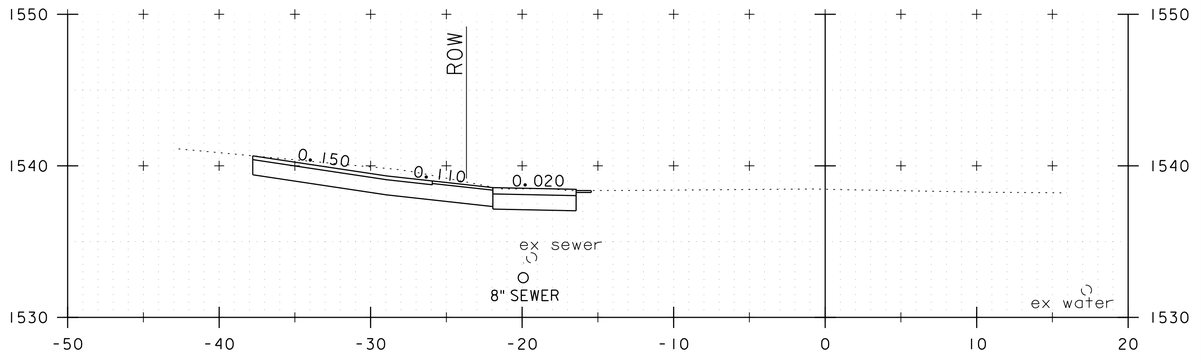

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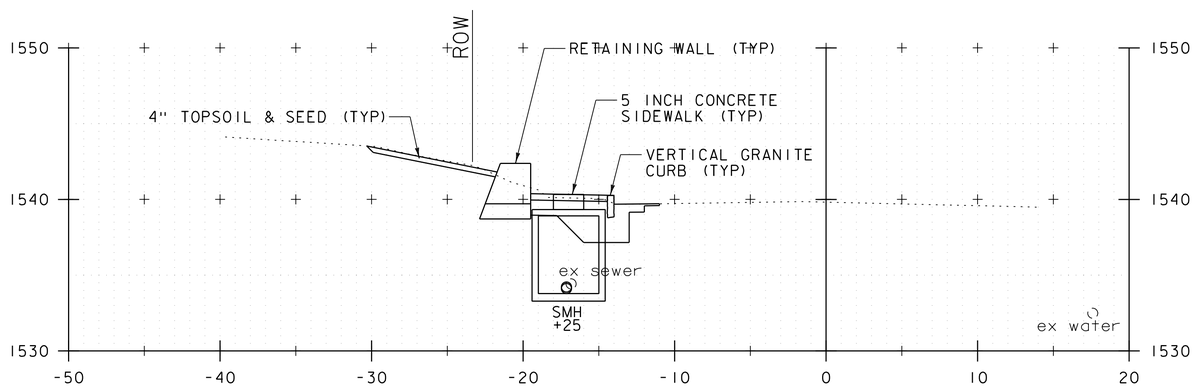

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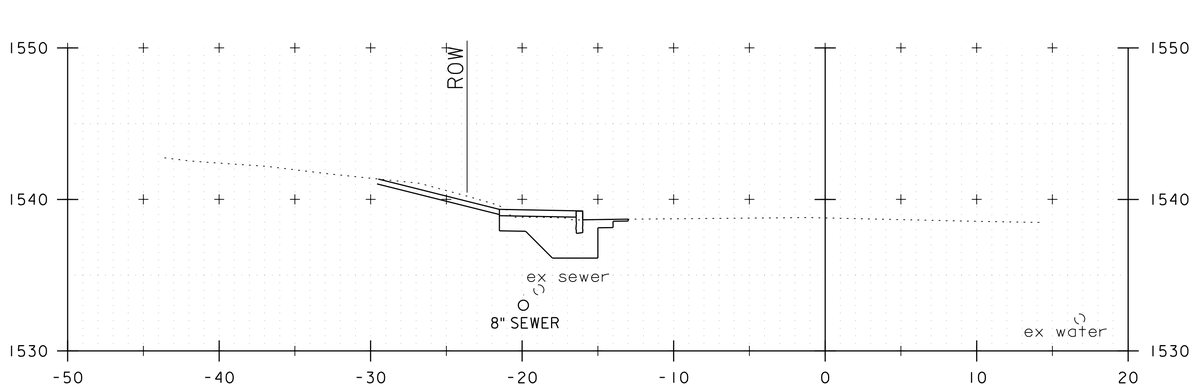


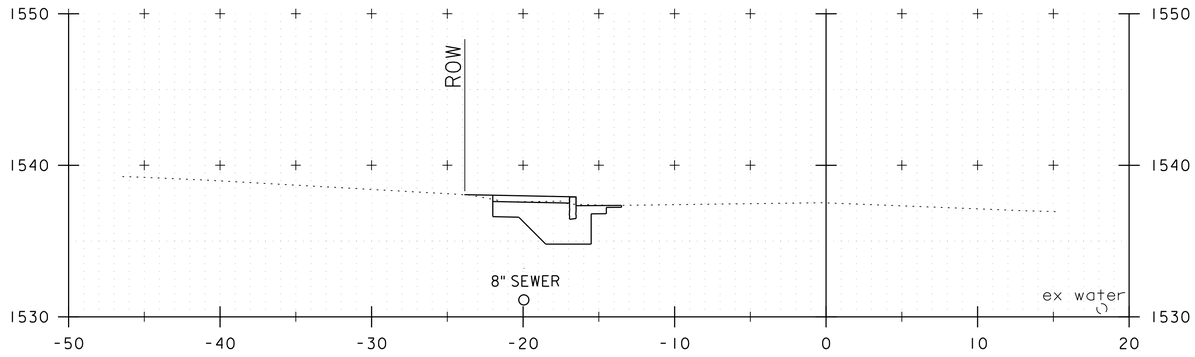
4+00

0 5 10
SCALE IN FEET

vhb

PROJECT NAME:	EAST MAIN STREET SIDEWALK
PROJECT NUMBER:	TAP TA 16(4) - STP BP17(13)

FILE NAME: 57923xs.dgn	PLOT DATE: 2/20/2020
PROJECT LEADER: E.P. DETRICK	DRAWN BY: B.M. ROBERTS
DESIGNED BY: B.M. ROBERTS	CHECKED BY: E.P. DETRICK
CROSS SECTION SHEET 3	SHEET 29 OF 37



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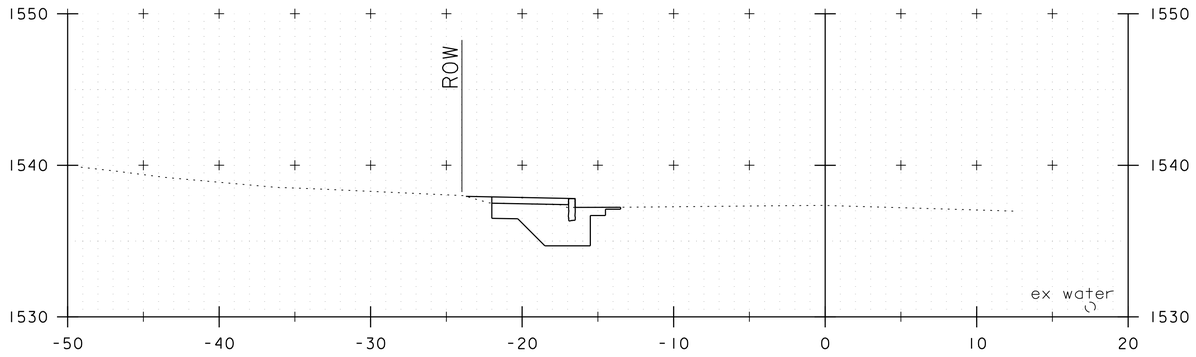
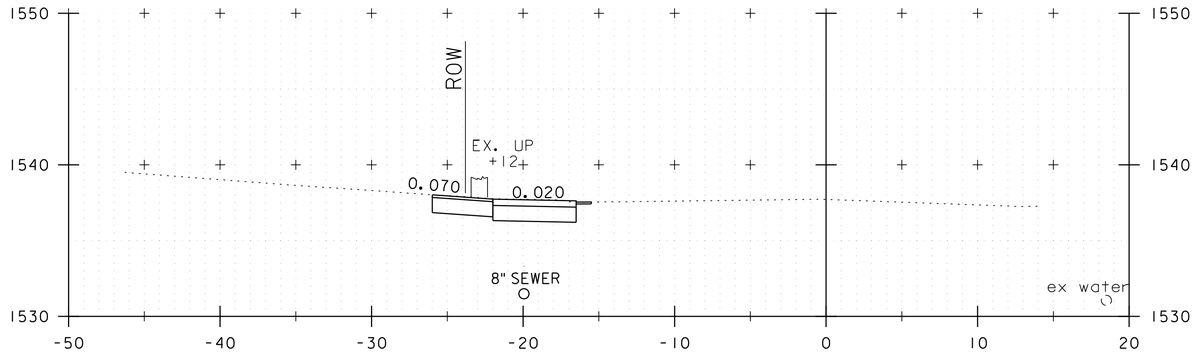


6+00



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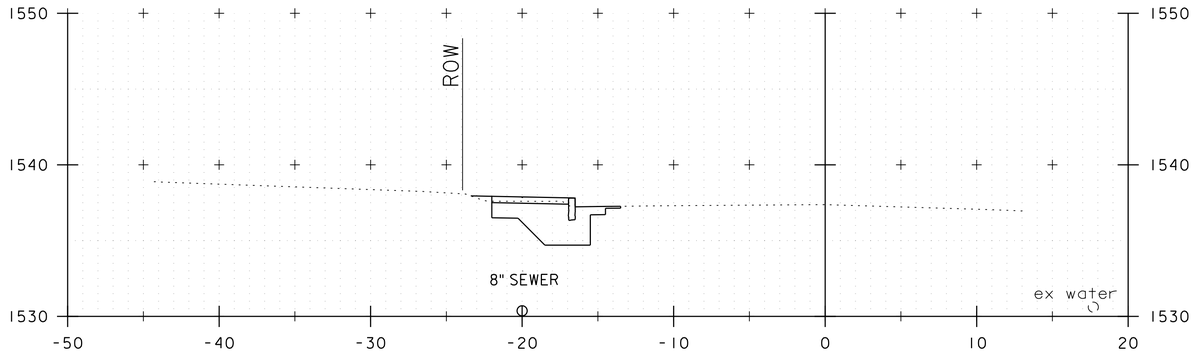

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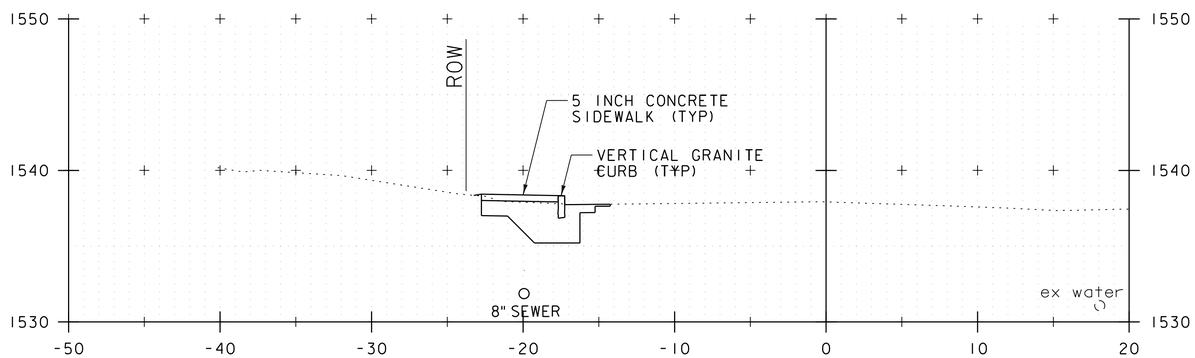

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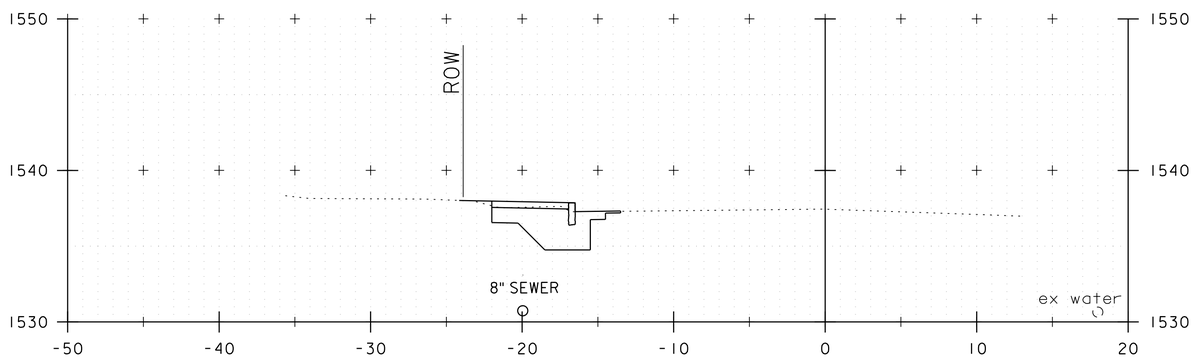


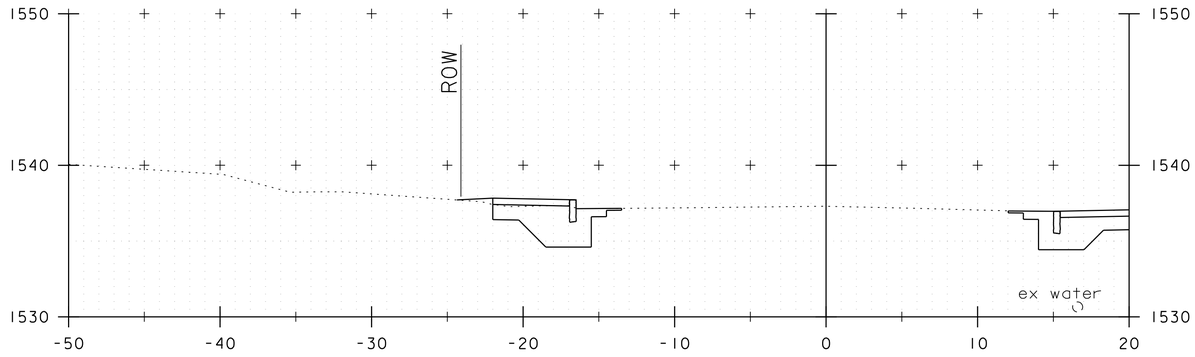
5+50

0 5 10
SCALE IN FEET

vhb

PROJECT NAME:	EAST MAIN STREET SIDEWALK
PROJECT NUMBER:	TAP TA 16(4) - STP BP17(13)

FILE NAME: 57923xs.dgn	PLOT DATE: 2/20/2020
PROJECT LEADER: E.P. DETRICK	DRAWN BY: B.M. ROBERTS
DESIGNED BY: B.M. ROBERTS	CHECKED BY: E.P. DETRICK
CROSS SECTION SHEET 4	SHEET 30 OF 37



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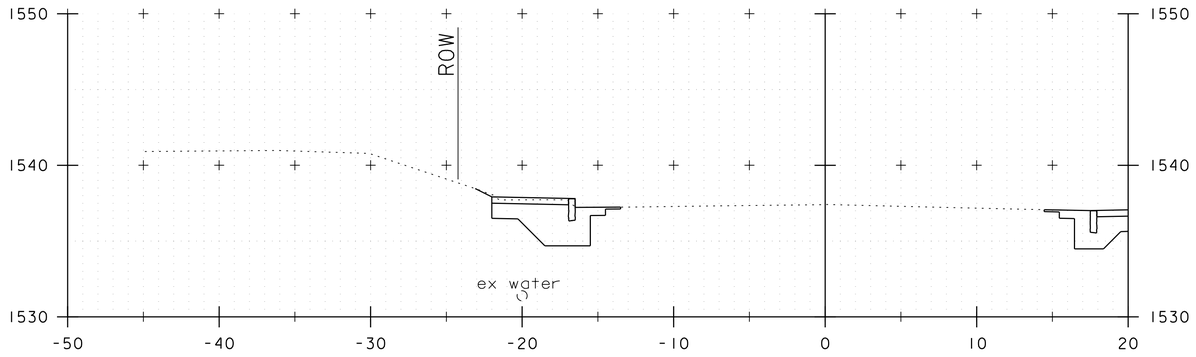
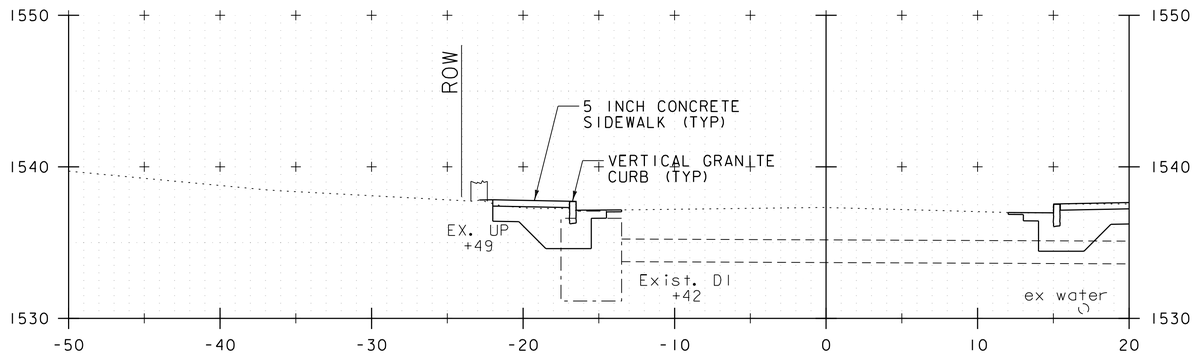


7+50



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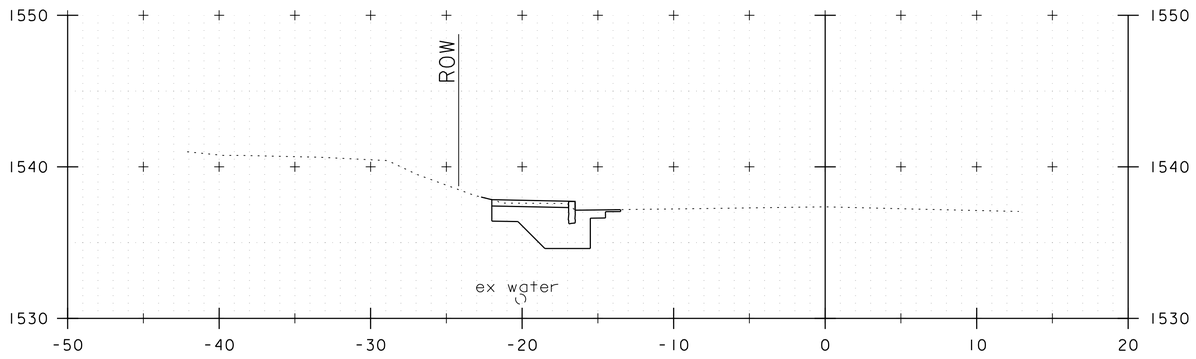

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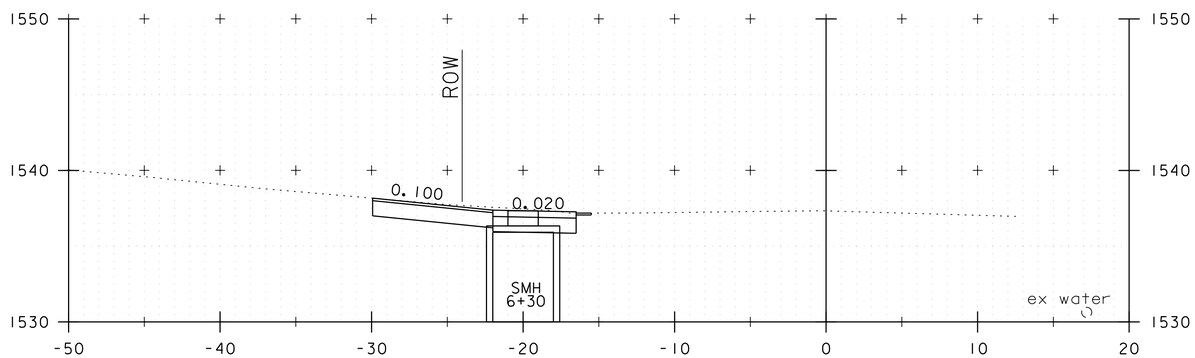

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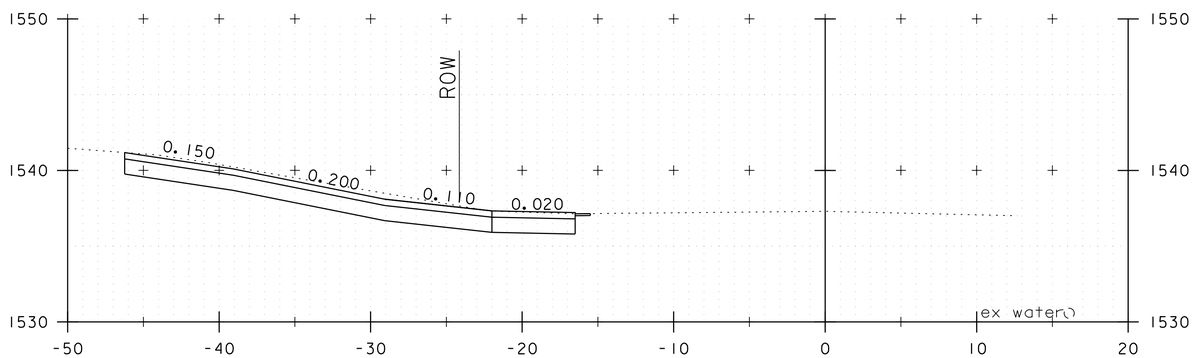
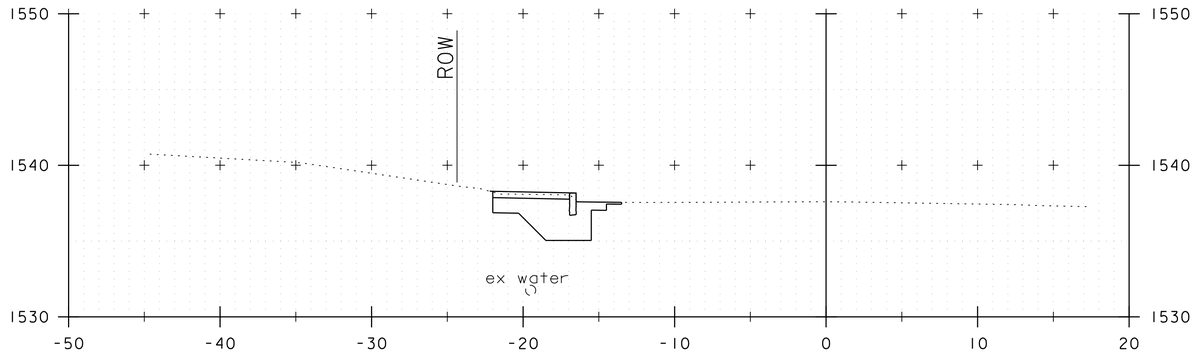
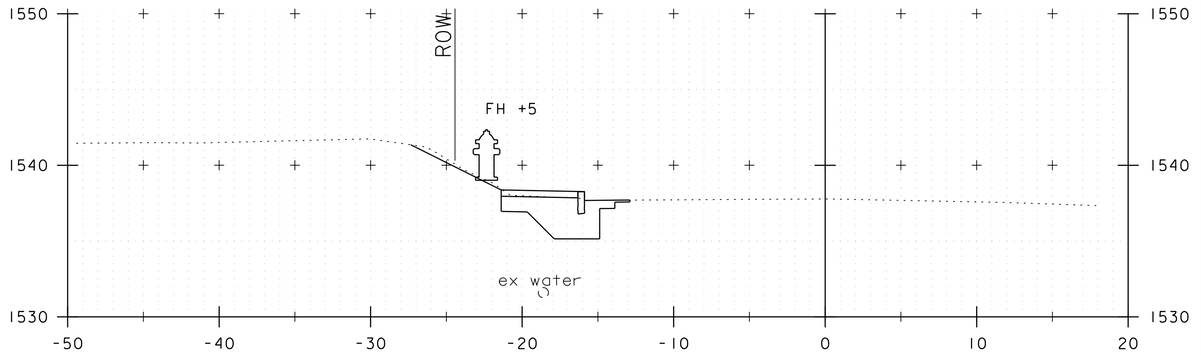


7+00

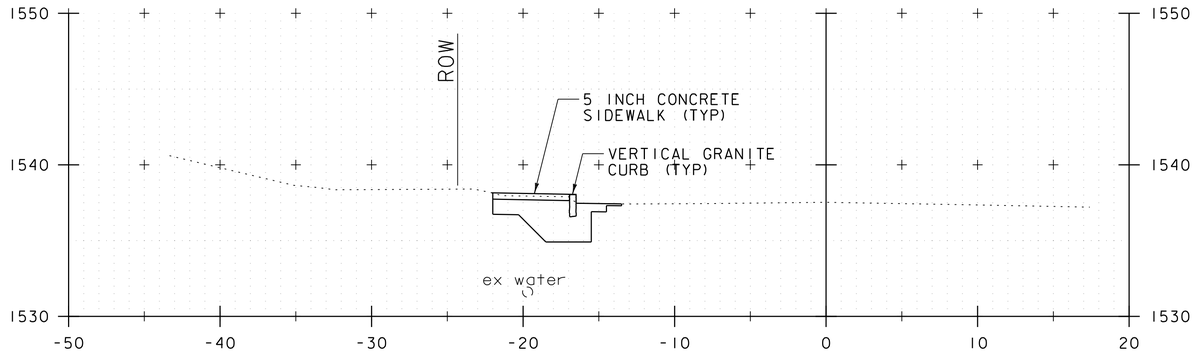
PROJECT NAME:	EAST MAIN STREET SIDEWALK
PROJECT NUMBER:	TAP TA 16(4) - STP BP17(13)
FILE NAME: 57923xs.dgn	PLOT DATE: 2/20/2020
PROJECT LEADER: E.P. DETRICK	DRAWN BY: B.M. ROBERTS
DESIGNED BY: B.M. ROBERTS	CHECKED BY: E.P. DETRICK
CROSS SECTION SHEET 5	SHEET 31 OF 37



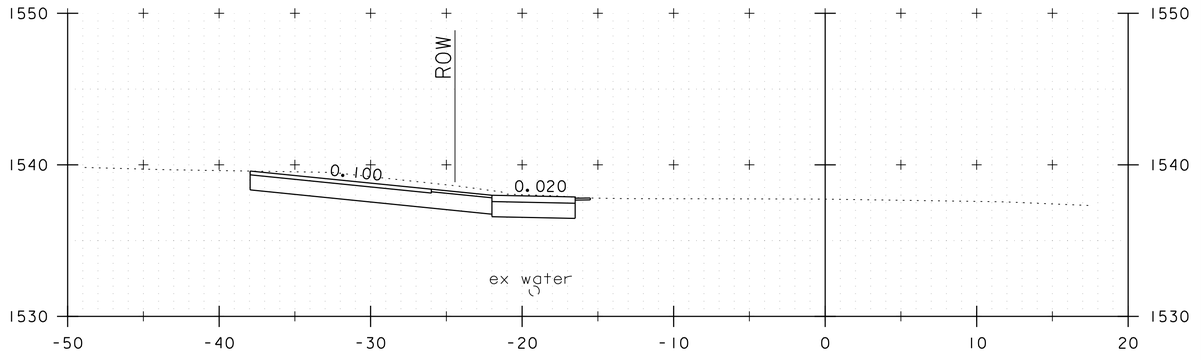
8+25



9+00



8+00



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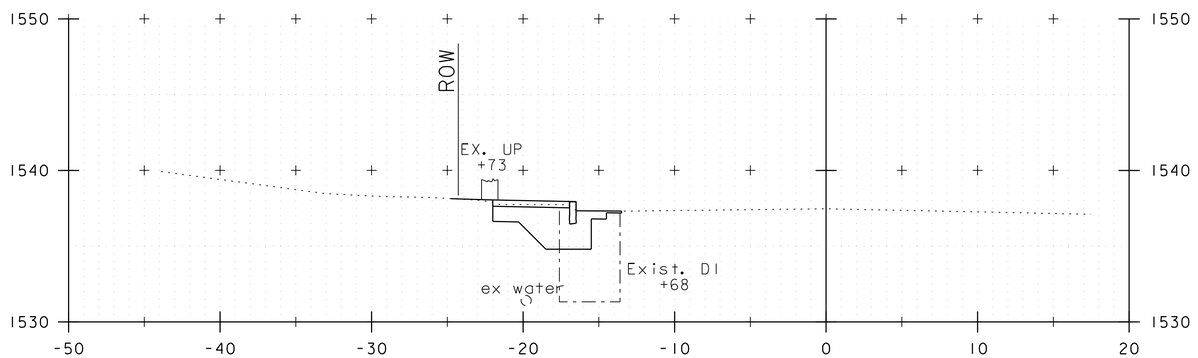

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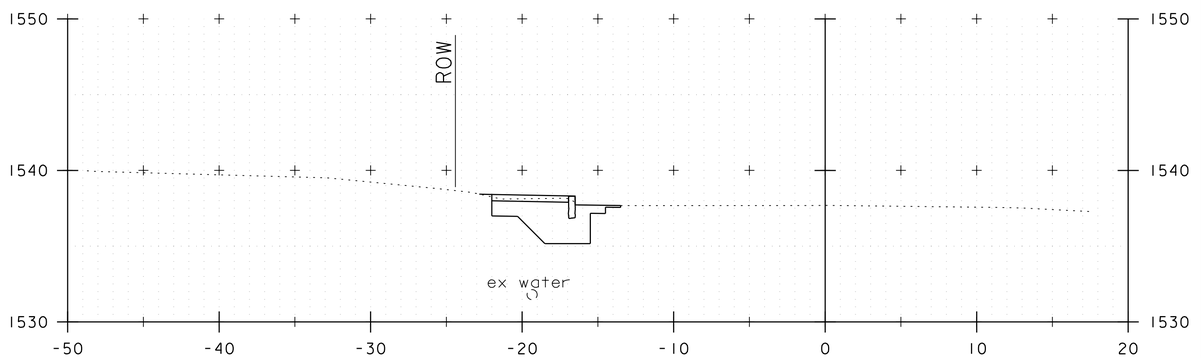


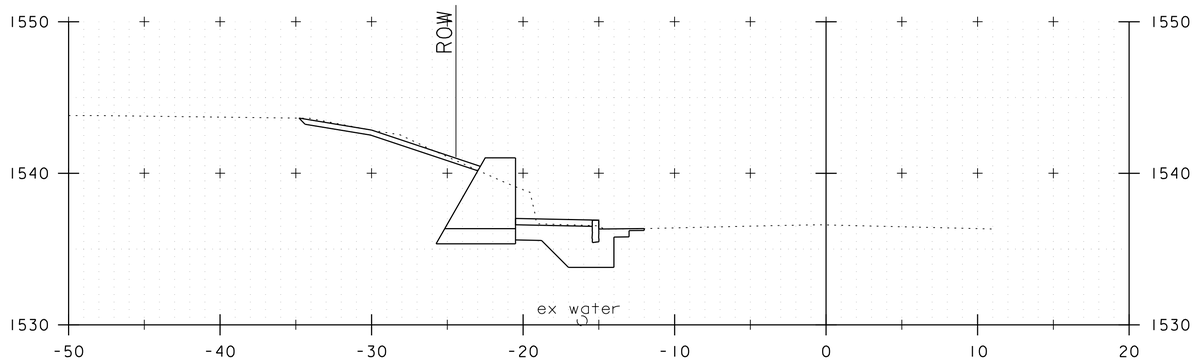
8+50

0 5 10
SCALE IN FEET

vhb

PROJECT NAME:	EAST MAIN STREET SIDEWALK
PROJECT NUMBER:	TAP TA 16(4) - STP BP17(13)

FILE NAME: 57923xs.dgn	PLOT DATE: 2/20/2020
PROJECT LEADER: E.P. DETRICK	DRAWN BY: B.M. ROBERTS
DESIGNED BY: B.M. ROBERTS	CHECKED BY: E.P. DETRICK
CROSS SECTION SHEET 6	SHEET 32 OF 37



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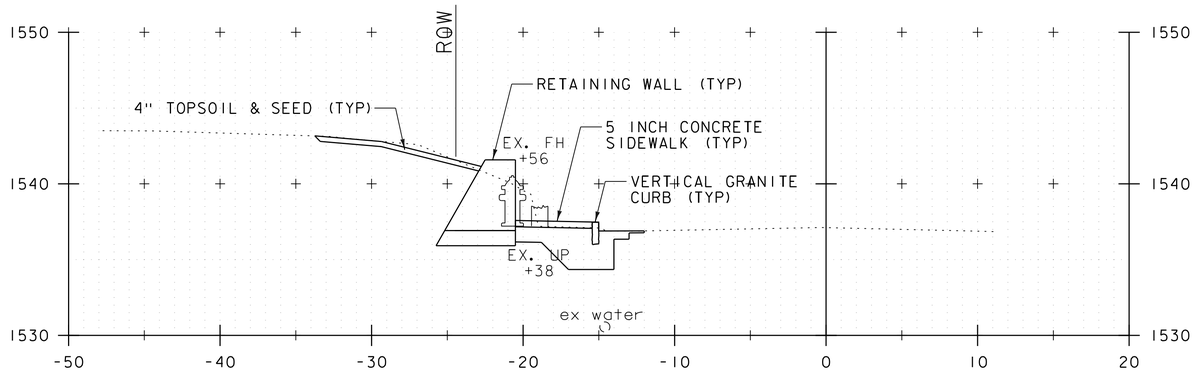

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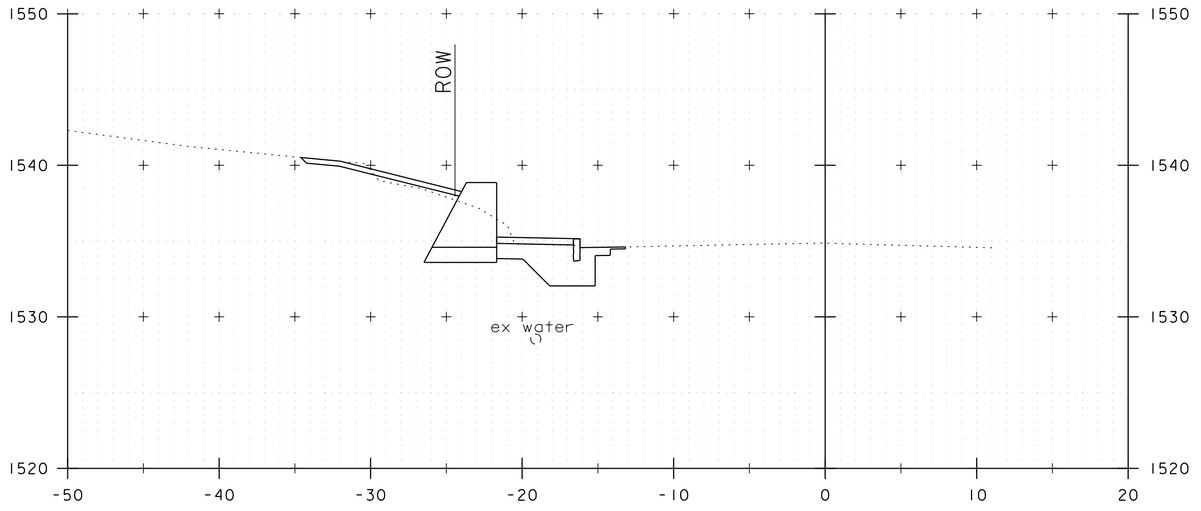

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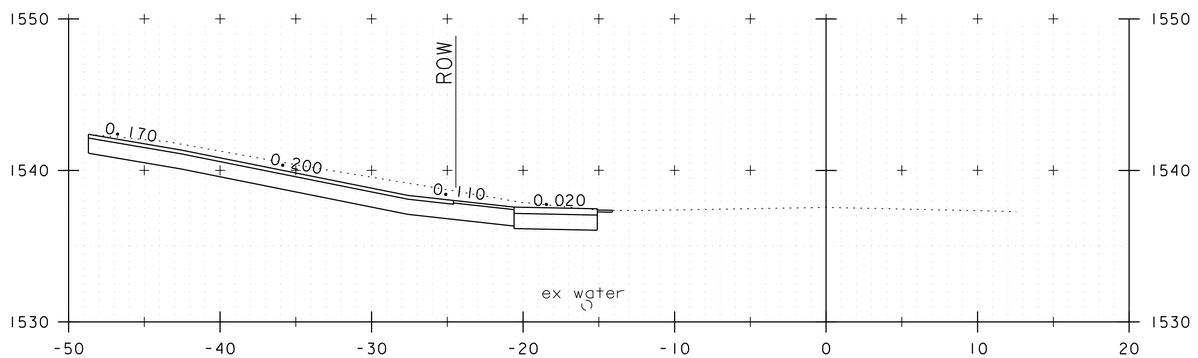

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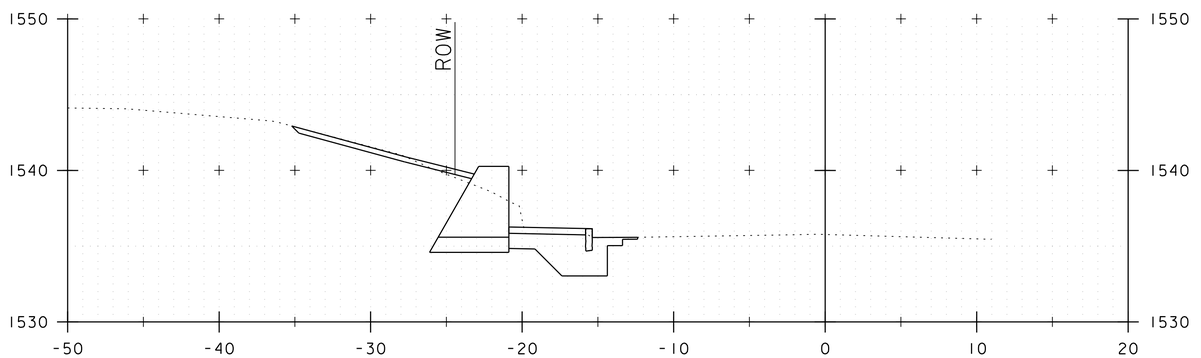


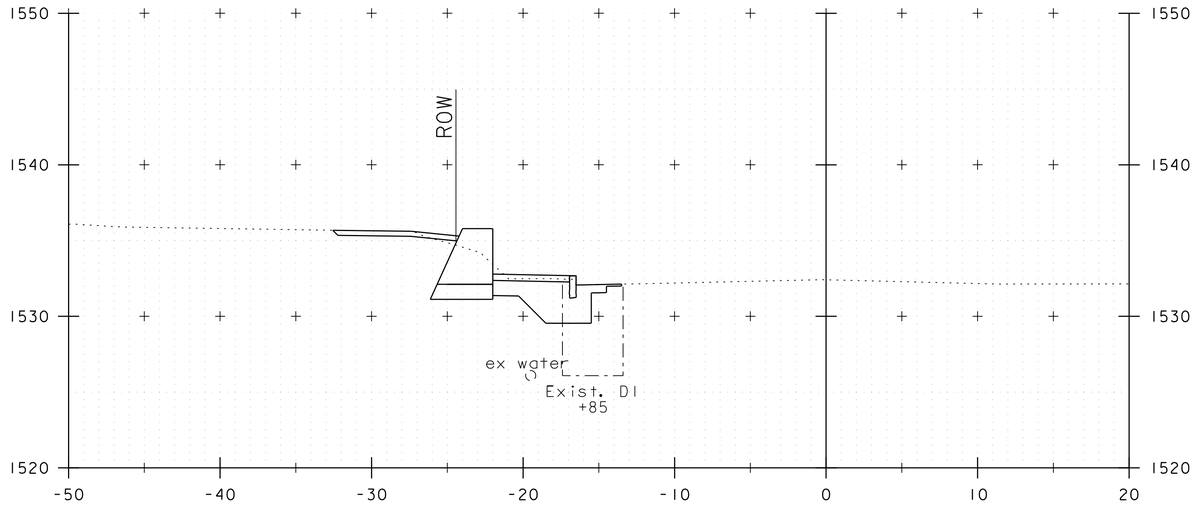
10+00

0 5 10
SCALE IN FEET

vhb

PROJECT NAME:	EAST MAIN STREET SIDEWALK
PROJECT NUMBER:	TAP TA 16(4) - STP BP17(13)

FILE NAME: 57923xs.dgn	PLOT DATE: 2/20/2020
PROJECT LEADER: E.P. DETRICK	DRAWN BY: B.M. ROBERTS
DESIGNED BY: B.M. ROBERTS	CHECKED BY: E.P. DETRICK
CROSS SECTION SHEET 7	SHEET 33 OF 37



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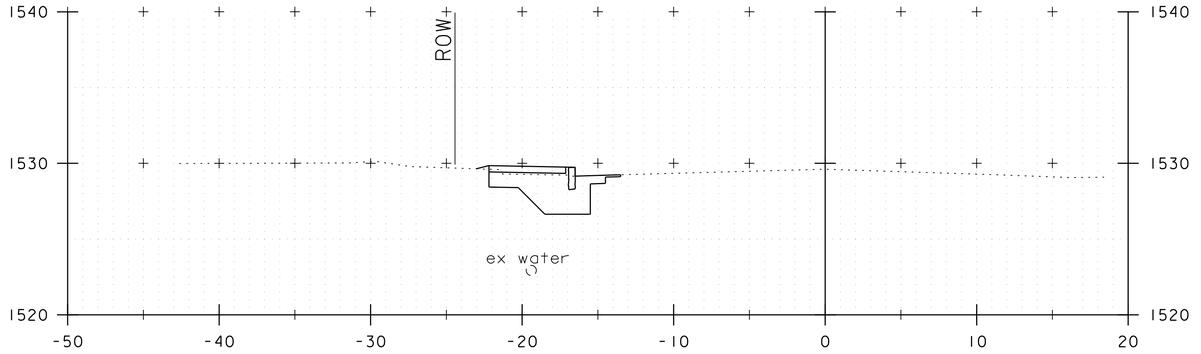
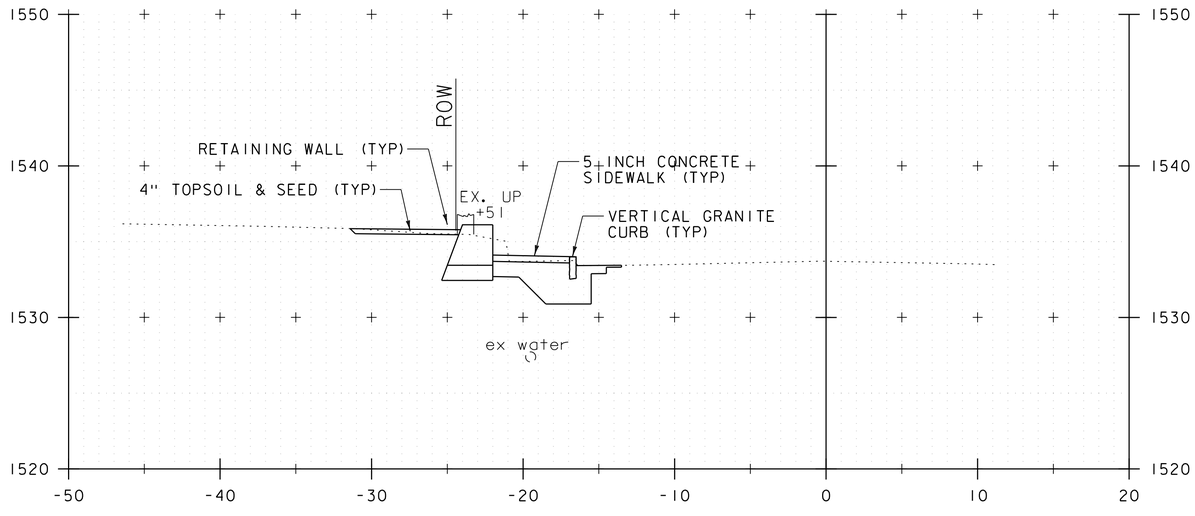


11+25



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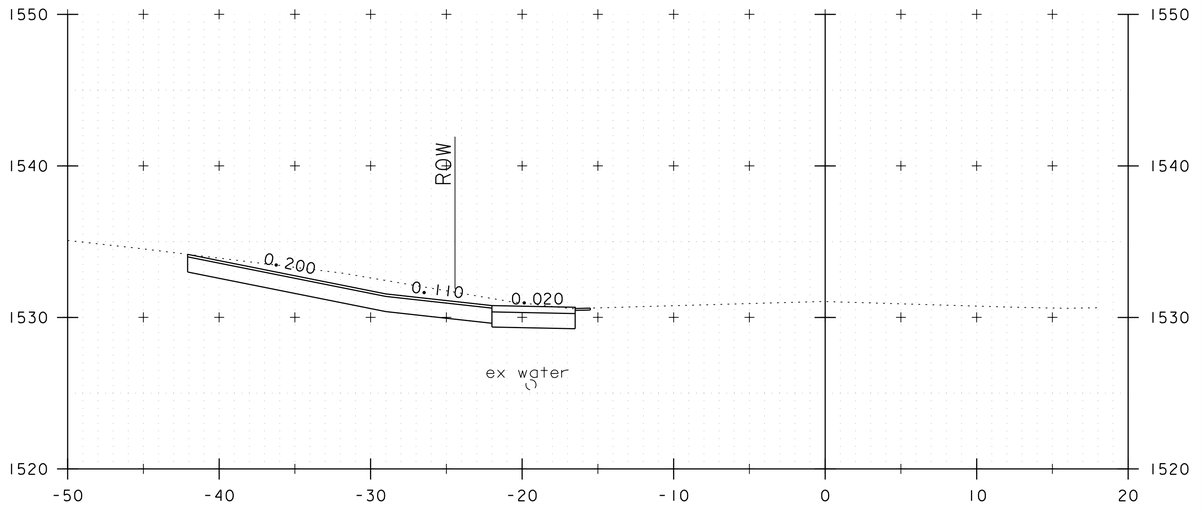
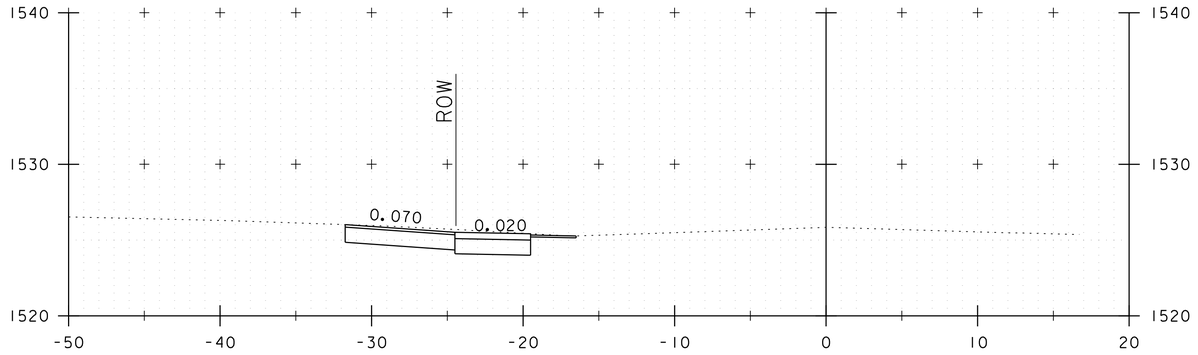


11+00

0 5 10
SCALE IN FEET

PROJECT NAME:	EAST MAIN STREET SIDEWALK
PROJECT NUMBER:	TAP TA 16(4) - STP BP17(13)

FILE NAME: 57923xs.dgn	PLOT DATE: 2/20/2020
PROJECT LEADER: E.P. DETRICK	DRAWN BY: B.M. ROBERTS
DESIGNED BY: B.M. ROBERTS	CHECKED BY: E.P. DETRICK
CROSS SECTION SHEET 8	SHEET 34 OF 37



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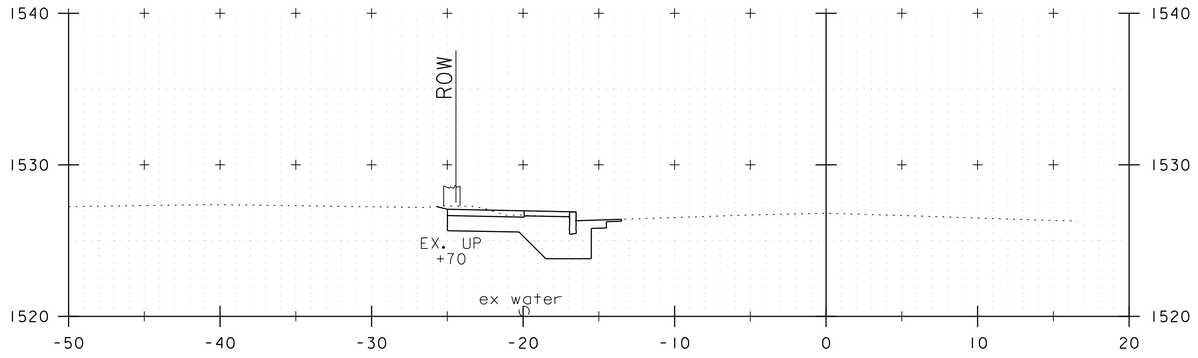

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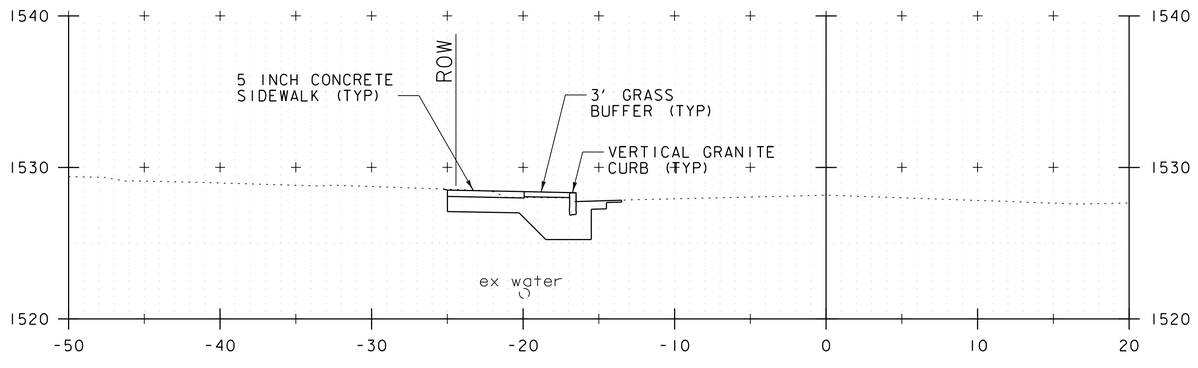

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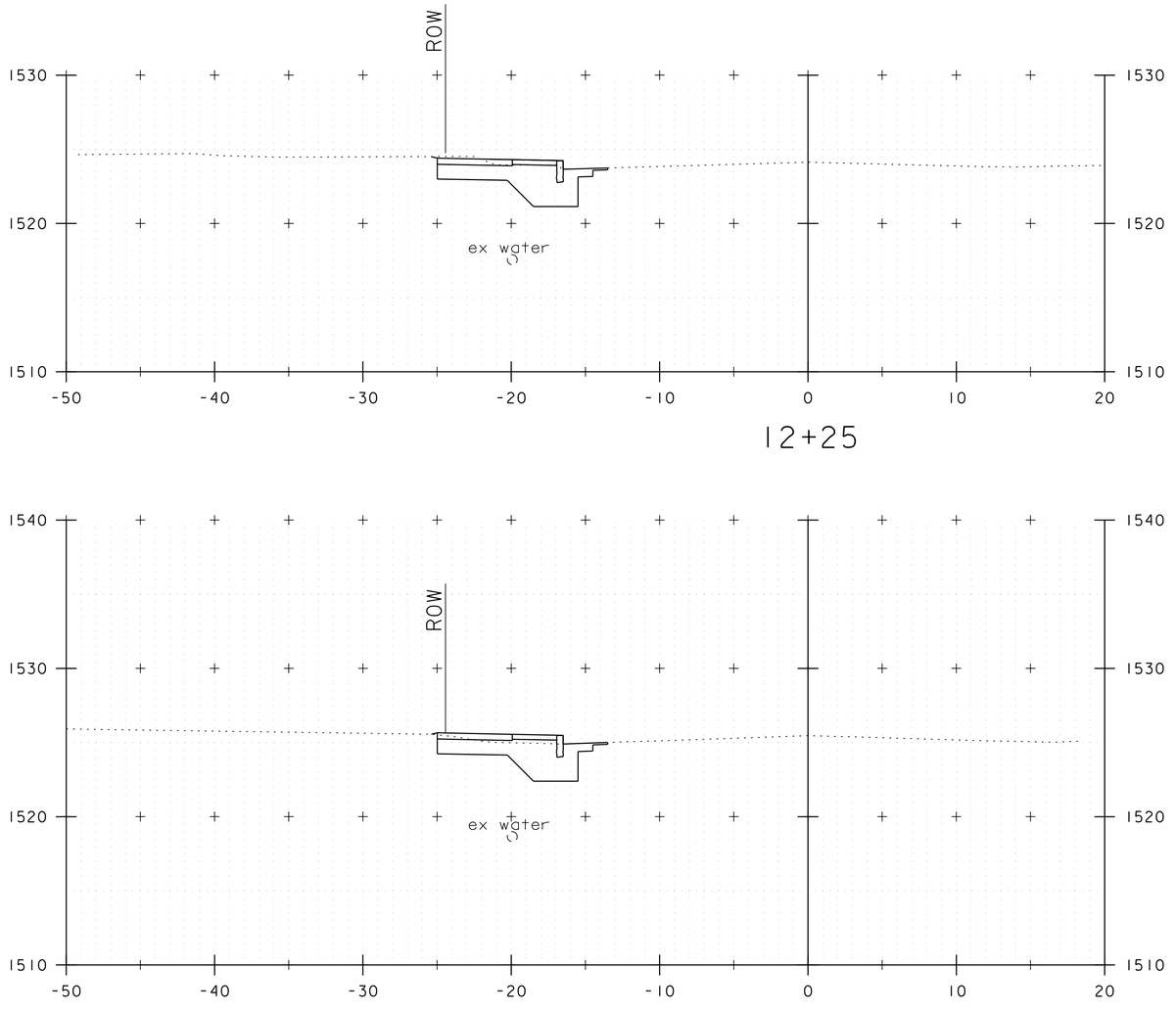
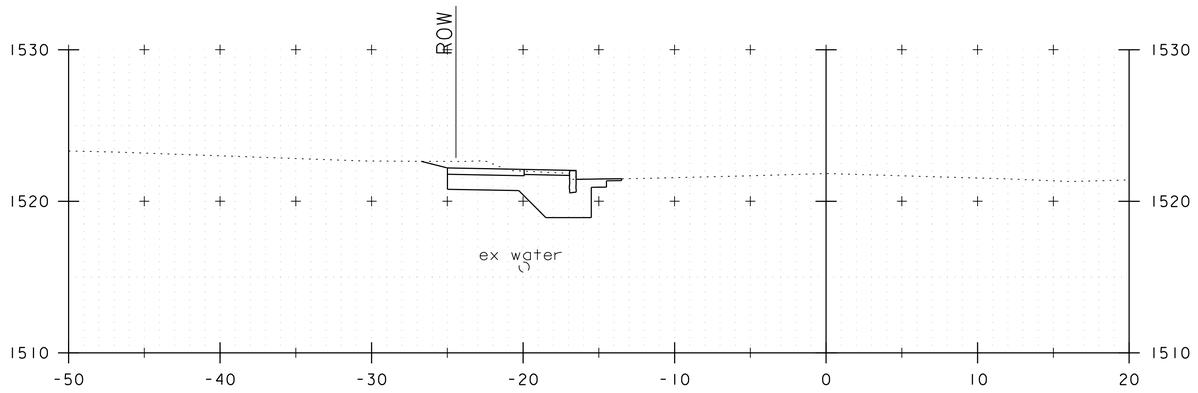


12+25

12+00

0 5 10
SCALE IN FEET

PROJECT NAME:	EAST MAIN STREET SIDEWALK
PROJECT NUMBER:	TAP TA 16(4) - STP BP17(13)
FILE NAME: 57923xs.dgn	PLOT DATE: 2/20/2020
PROJECT LEADER: E.P. DETRICK	DRAWN BY: B.M. ROBERTS
DESIGNED BY: B.M. ROBERTS	CHECKED BY: E.P. DETRICK
CROSS SECTION SHEET 9	SHEET 35 OF 37



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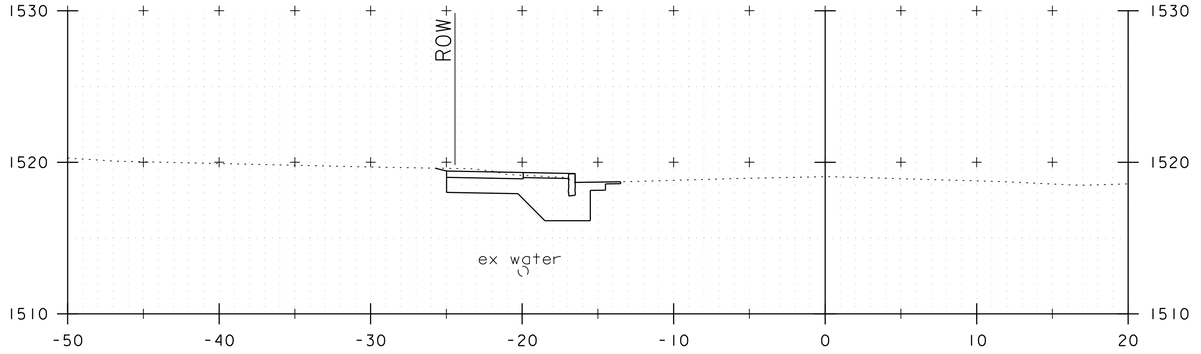
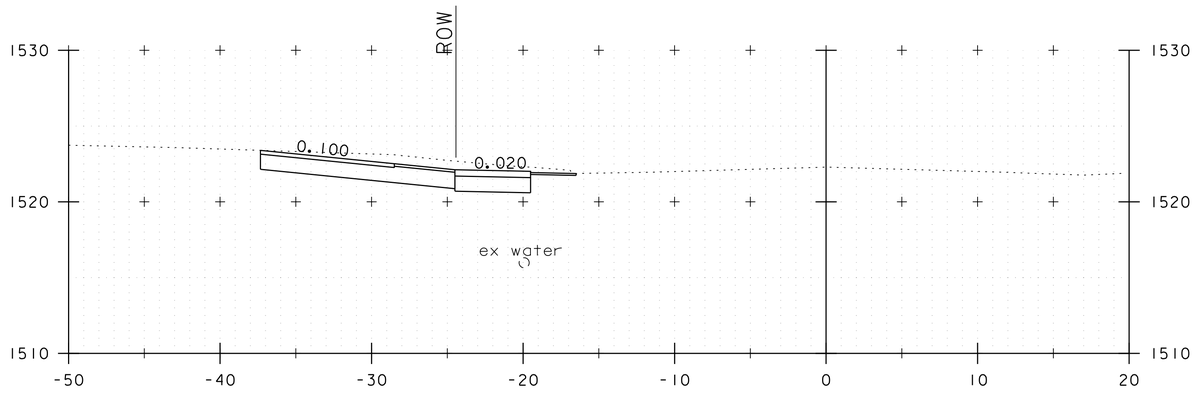


13+50



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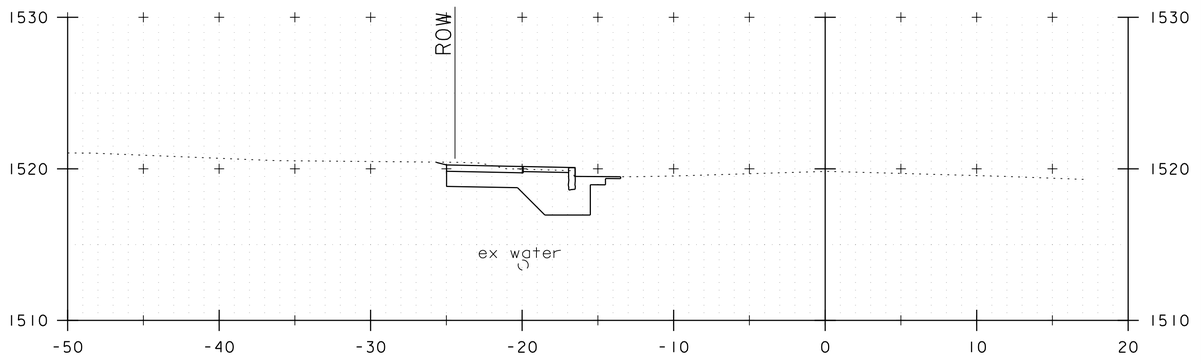

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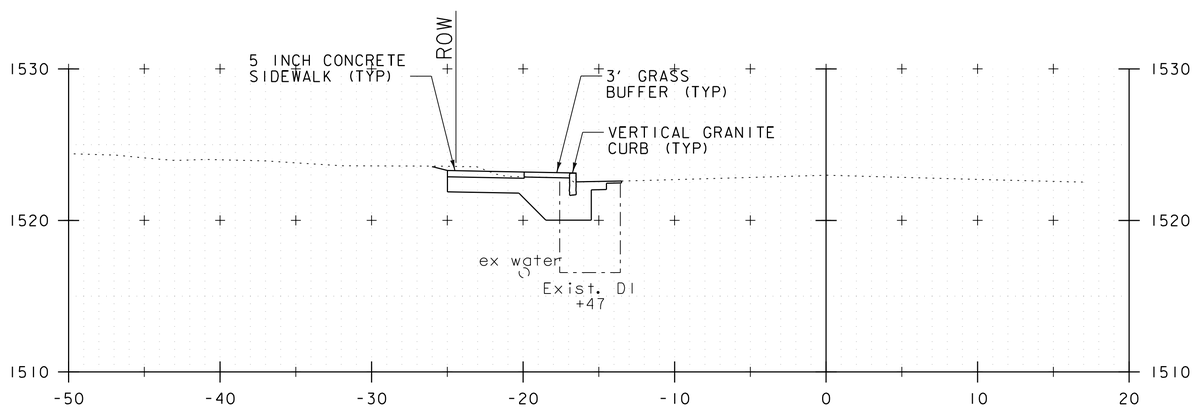

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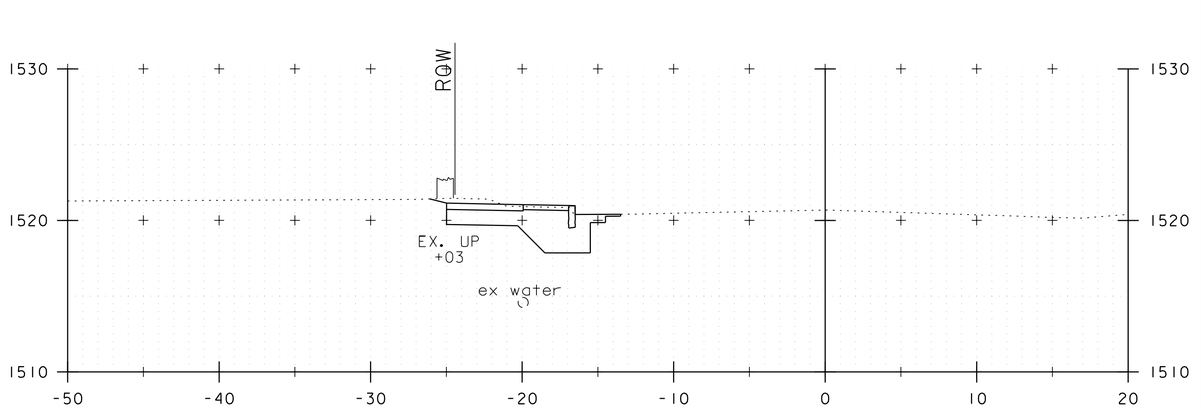


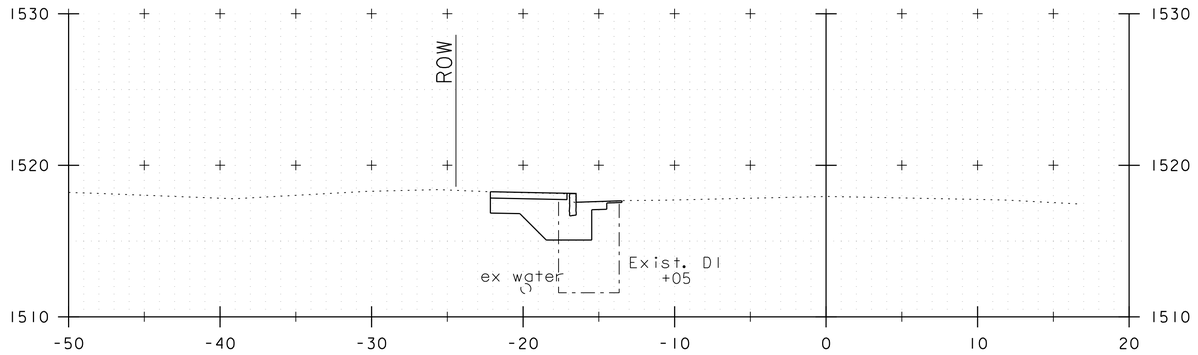
13+00

0 5 10
SCALE IN FEET

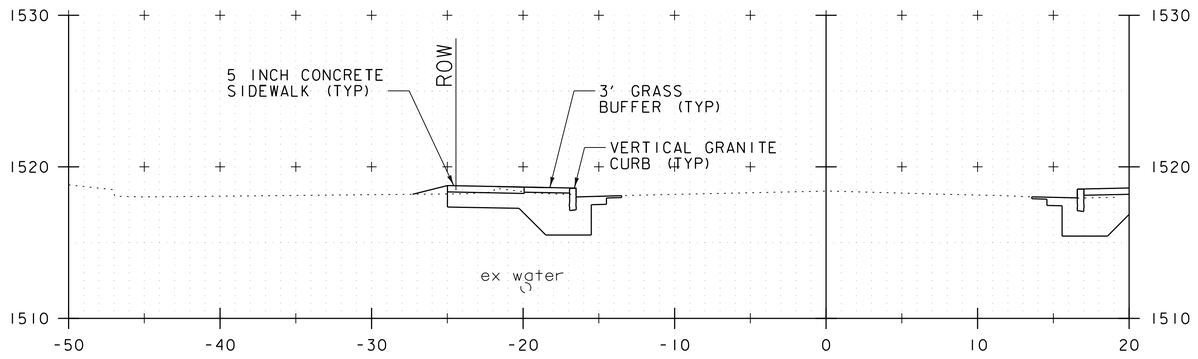
vhb

PROJECT NAME:	EAST MAIN STREET SIDEWALK
PROJECT NUMBER:	TAP TA 16(4) - STP BP17(13)

FILE NAME: 57923xs.dgn	PLOT DATE: 2/20/2020
PROJECT LEADER: E.P. DETRICK	DRAWN BY: B.M. ROBERTS
DESIGNED BY: B.M. ROBERTS	CHECKED BY: E.P. DETRICK
CROSS SECTION SHEET 10	SHEET 36 OF 37



14+00



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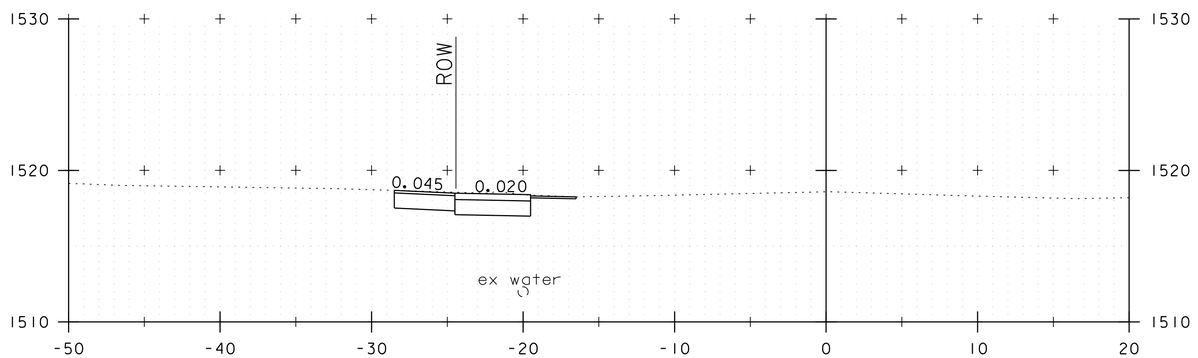

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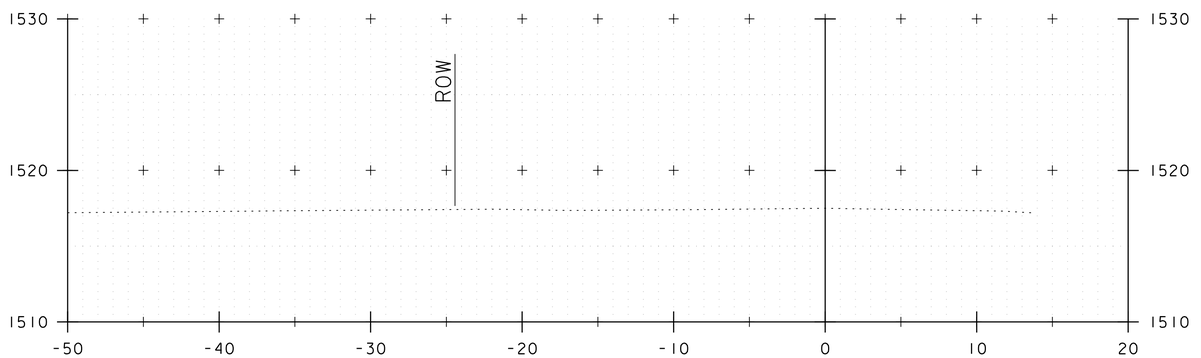

STA. 14+13.68
END PROJECT
TAP TA 16(4) - STP BP17(13)

14+25

0 5 10
SCALE IN FEET

vhb

PROJECT NAME:	EAST MAIN STREET SIDEWALK
PROJECT NUMBER:	TAP TA 16(4) - STP BP17(13)

FILE NAME: 57923xs.dgn	PLOT DATE: 2/20/2020
PROJECT LEADER: E.P. DETRICK	DRAWN BY: B.M. ROBERTS
DESIGNED BY: B.M. ROBERTS	CHECKED BY: E.P. DETRICK
CROSS SECTION SHEET II	SHEET 37 OF 37