MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION

SPRINGFIELD MCKNIGHT COMMUNITY TRAIL			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	1	66
PROJECT FILE NO.	608157		

TITLE SHEET & INDEX

608157_HD(TL).DWG Plotted on 23-Jul-2021 12:29 PM

PLAN AND PROFILE OF

MCKNIGHT COMMUNITY TRAIL

(BRIDGE NO. S-24-027)

Update when Bridge Numbers are obtained for the other new structures. Include BIN numbers.

IN THE CITY OF

SPRINGFIELD

HAMPDEN COUNTY

FEDERAL AID PROJECT NO. XXXXX

25% SUBMITTAL

D2 ADA commented on pg.: 18, 21, 39

Affected Utilities	Est. Cost	Est. Duration
Sprint	$250,000	45 days

Costs and Durations Est. by D2 Office

THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION 2020 STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES , THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS WITH MASSACHUSETTS AMENDMENTS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, WILL GOVERN.

INDEX

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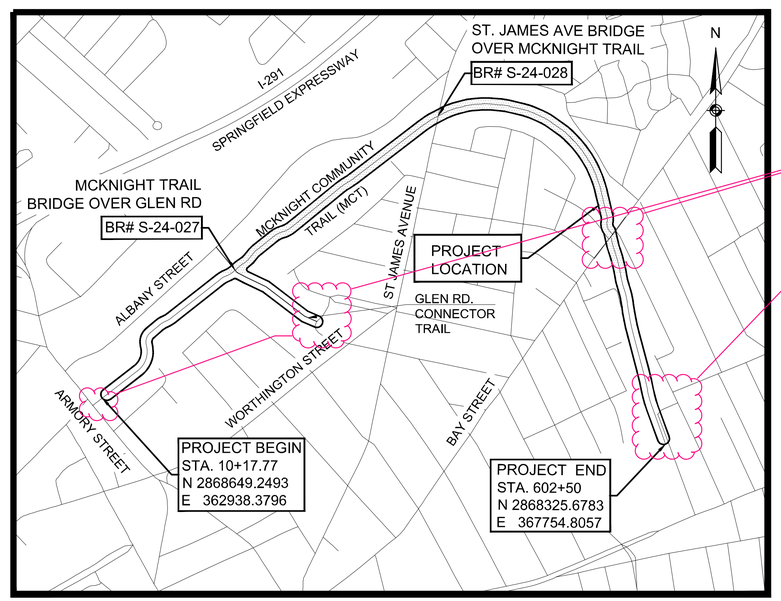


please add more street names near the path crossing areas so the locations are easier to find.

0 600 1200 1800 2400

SCALE: 1" = 600'

LENGTH OF PROJECT = 8894 FEET = 1.684 MILES

DESIGN DESIGNATION (MCKNIGHT COMMUNITY TRAIL)

DESIGN SPEED	12 - 20 MPH
MINIMUM HORIZONTAL CURVE RADIUS	50'
MAXIMUM GRADE FOR TRAIL (MCT)	5%

Is the Design Engineer information missing from the Title Sheet?

DATE	DESCRIPTION	REV #
7/23/2021	25% SUBMISSION	0

massDOT Massachusetts Department of Transportation Highway Division

RECOMMENDED FOR APPROVAL

CHIEF ENGINEER DATE

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

APPROVED

HOR. SCALE IN FEET 4 0 4 8

VER. SCALE IN FEET 4 0 4 8

HIGHWAY ADMINISTRATOR DATE

GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
JB	JB	JERSEY BARRIER
CB	CB	CATCH BASIN
		CATCH BASIN CURB INLET
FP	FP	FLAG POLE
GP	GP	GAS PUMP
MB	MB	MAIL BOX
		POST SQUARE
		POST CIRCULAR
WELL	WELL	WELL
EHH	EHH	ELECTRIC HANDHOLE
		FENCE GATE POST
GG	GG	GAS GATE
BHL #	BHL #	BORING HOLE
MW #	MW #	MONITORING WELL
TP #	TP #	TEST PIT
		HYDRANT
		LIGHT POLE
CO.BD.		COUNTY BOUND
		GPS POINT
		CABLE MANHOLE
		DRAINAGE MANHOLE
		ELECTRIC MANHOLE
		GAS MANHOLE
		MISC MANHOLE
		SEWER MANHOLE
		TELEPHONE MANHOLE
		WATER MANHOLE
MHB	MHB	MASSACHUSETTS HIGHWAY BOUND
MON		MONUMENT
SB		STONE BOUND
TB		TOWN OR CITY BOUND
		TRAVERSE OR TRIANGULATION STATION
TPL or GUY	TPL or GUY	TROLLEY POLE OR GUY POLE
HTP		TRANSMISSION POLE
UFB	UFB	UTILITY POLE W/ FIREBOX
UPDL	UPDL	UTILITY POLE WITH DOUBLE LIGHT
ULT	ULT	UTILITY POLE W / 1 LIGHT
UPL	UPL	UTILITY POLE
		BUSH
•SIZE & TYPE		TREE
		STUMP
		SWAMP / MARSH
WG	WG	WATER GATE
PM	PM	PARKING METER
		OVERHEAD CABLE/WIRE
		CURBING
100 99		CONTOURS (ON-THE-GROUND SURVEY DATA)
100 99		CONTOURS (PHOTOGRAMMETRIC DATA)
		UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)
		BALANCED STONE WALL
		GUARD RAIL - STEEL POSTS
		GUARD RAIL - WOOD POSTS
		GUARD RAIL - DOUBLE FACE - STEEL POSTS
		GUARD RAIL - DOUBLE FACE - WOOD POSTS
		CHAIN LINK OR METAL FENCE
		WOOD FENCE
		HAY BALES/SILT FENCE
		TREE LINE
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY
		BANK OF RIVER OR STREAM
		BORDER OF WETLAND
		100 FT WETLAND BUFFER
		200 FT RIVERFRONT BUFFER
		STATE HIGHWAY LAYOUT
		TOWN OR CITY LAYOUT
		COUNTY LAYOUT
		RAILROAD SIDELINE
		TOWN OR CITY BOUNDARY LINE
		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
		EASEMENT

TRAFFIC SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
Ø1	Ø1	CONTROLLER PHASE ACTUATED
		TRAFFIC SIGNAL HEAD (SIZE AS NOTED)
		WIRE LOOP DETECTOR (6' x 6' TYP UNLESS OTHERWISE SPECIFIED)
		VIDEO DETECTION CAMERA
		MICROWAVE DETECTOR
		PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE
		EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT
		VEHICULAR SIGNAL HEAD
		VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED
		FLASHING BEACON
		PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED)
RRSG	RRSG	RAILROAD SIGNAL
OR		SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)
	20'	MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)
		HIGH MAST POLE OR TOWER
		SIGN AND POST
		SIGN AND POST (2 POSTS)
	20'	MAST ARM WITH LUMINAIRE
		OPTICAL PRE-EMPTION DETECTOR
		CONTROL CABINET, GROUND MOUNTED
		CONTROL CABINET, POLE MOUNTED
		FLASHING BEACON CONTROL AND METER PEDESTAL
		LOAD CENTER ASSEMBLY
		PULL BOX 12"x12" (OR AS NOTED)
		ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)
		TRAFFIC SIGNAL CONDUIT

PAVEMENT MARKINGS SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		PAVEMENT ARROW - WHITE
ONLY	ONLY	LEGEND "ONLY" - WHITE
	SL	STOP LINE - 12"
	CW	CROSSWALK - 24" LINES, 4' O.C. (SEE DETAIL) Add sheet number of detail.
	SWL	SOLID WHITE LINE - 6"
	SYL	SOLID YELLOW LINE - 6"
	BWL	BROKEN WHITE LINE - 6"
	BYL	BROKEN YELLOW LINE - 6" (SHARED USE PATH: 3' LINE, 9' GAP)
	DWL	DOTTED WHITE LINE - 6"
	DYL	DOTTED YELLOW LINE - 6"
	DWLEx	DOTTED WHITE LINE EXTENSION - 6" (2' LINE, 6' GAP)
	DYLEx	DOTTED YELLOW LINE EXTENSION - 6" (2' LINE, 6' GAP)
	DBWL	DOUBLE WHITE LINE - 2-6" LINES
	DBYL	DOUBLE YELLOW LINE - 2-6" LINES

UTILITY PLAN COLORS

UTILITY	LINE COLOR
ELECTRIC	RED
GAS-OIL-STEAM	BROWN
COMMUNICATION/CATV	ORANGE
POTABLE WATER	BLUE
SEWER	GREEN
DRAINAGE	TRADITIONAL GRAYSCALE

PLANT LEGEND

+	PROP SHADE TREE
	PROP FLOWERING TREE
	PROP EVERGREEN TREE

ABBREVIATIONS

GENERAL

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

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	2	66
PROJECT FILE NO.	608157		

LEGEND & ABBREVIATIONS

ABBREVIATIONS (cont.)

GENERAL

R	RADIUS OF CURVATURE
R&D	REMOVE AND DISPOSE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY	ROADWAY
REM	REMOVE
RET	RETAIN
RET WALL	RETAINING WALL
ROW	RIGHT OF WAY
RR	RAILROAD
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
RT	RIGHT
SB	STONE BOUND
SHLD	SHOULDER
SMH	SEWER MANHOLE
ST	STREET
STA	STATION
SSD	STOPPING SIGHT DISTANCE
SHLO	STATE HIGHWAY LAYOUT LINE
SW	SIDEWALK
T	TANGENT DISTANCE OF CURVE/TRUCK %
TAN	TANGENT
TEMP	TEMPORARY
TC	TOP OF CURB
TOS	TOP OF SLOPE
TYP	TYPICAL
UP	UTILITY POLE
VAR	VARIES
VERT	VERTICAL
VC	VERTICAL CURVE
WCR	WHEEL CHAIR RAMP
WG	WATER GATE
WIP	WROUGHT IRON PIPE
WM	WATER METER/WATER MAIN
X-SECT	CROSS SECTION

TRAFFIC SIGNAL ABBREVIATIONS

CAB	CABINET
CCVE	CLOSED CIRCUIT VIDEO EQUIPMENT
DW	STEADY UPRAISED HAND
FDW	FLASHING UPRAISED HAND
FR	FLASHING CIRCULAR RED
FRL	FLASHING RED LEFT ARROW
FRR	FLASHING RED RIGHT ARROW
FY	FLASHING CIRCULAR YELLOW
FYL	FLASHING YELLOW LEFT ARROW
FYR	FLASHING YELLOW RIGHT ARROW
G	STEADY CIRCULAR GREEN
GL	STEADY GREEN LEFT ARROW
GR	STEADY GREEN RIGHT ARROW
GSL	STEADY GREEN SLASH LEFT ARROW
GSR	STEADY GREEN SLASH RIGHT ARROW
GV	STEADY GREEN VERTICAL ARROW
OL	OVERLAP
PED	PEDESTRIAN
PTZ	PAN, TILT, ZOOM
R	STEADY CIRCULAR RED
RL	STEADY RED LEFT ARROW
RR	STEADY RED RIGHT ARROW
TS	TRAFFIC SIGNAL
TSC	TRAFFIC SIGNAL CONDUIT
W	STEADY WALKING PERSON
Y	STEADY CIRCULAR YELLOW
YL	STEADY YELLOW LEFT ARROW

608157_HD(LN).DWG Plotted on 23-Jul-2021 12:29 PM

608157_HD(GN).DWG Plotted on 23-Jul-2021 12:29 PM

GENERAL NOTES

1. THIS BASE MAP IS COMPILED FROM AN ACTUAL-ON-THE-GROUND INSTRUMENT SURVEY PERFORMED BY GREEN INTERNATIONAL AFFILIATES, INC., BETWEEN 24 SEPTEMBER 2018 AND 18 FEBRUARY 2020.
2. HORIZONTAL CONTROLS ARE BASED ON THE NORTH AMERICAN DATUM (NAD 83) ENGLISH UNITS.
3. VERTICAL CONTROLS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988).
4. THE TERM "PROPOSED" (PROP) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS, OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE & RESET" (R & R).
5. THE ACCURACY AND COMPLETENESS OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION, SIZE, TYPE ETC. OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY THE WORK. ALL TOWN-OWNED UTILITY STRUCTURES, WITHIN AREAS AFFECTED BY THE WORK SHALL BE ADJUSTED TO NEW LINE AND GRADE AS DIRECTED BY THE ENGINEER. ANY UTILITY POLES AND/OR GUY POLES, WITHIN AREAS AFFECTED BY THE WORK, SHALL BE REMOVED AND RESET BY THE RESPECTIVE UTILITY COMPANY. ALTERATIONS TO UTILITIES NOT OWNED BY THE TOWN SHALL BE MADE BY THE RESPECTIVE UTILITY OWNERS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WORK IN ADVANCE WITH THOSE UTILITY OWNERS.
6. CATCH BASIN AND MANHOLE FRAMES AND GRATES/COVERS SHALL EXACTLY ALIGN WITH THE OPENINGS IN THE PRECAST STRUCTURES AND THE GRADE OF THE PROPOSED ROADWAY.
7. ALL EXISTING DRAINAGE LINES TO BE REPLACED SHALL BE ABANDONED IN PLACE UNLESS OTHERWISE NOTED. IF SAID LINES CONFLICT WITH THE PROPOSED DRAINAGE, THEY SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.
8. WHERE DRAINAGE PIPES OR STRUCTURES ARE ABANDONED IN PLACE, THE CONTRACTOR SHALL MAKE SURE THAT ALL CONNECTING PIPES, INLETS AND OUTLETS ARE PLUGGED. ALL LIVE CONNECTIONS SHALL BE CONNECTED TO THE NEW SYSTEM.
9. ALL CURB TIE DIMENSIONS ARE TO FACE OF THE CURB.
10. TOP OF CURB SHALL BE 6 INCHES ABOVE GUTTER GRADE UNLESS OTHERWISE NOTED.
11. CONTRACTOR SHALL VERIFY EXISTING GRADES. IF ANY ADJUSTMENT IS REQUIRED DUE TO DIFFERENT EXISTING GRADES FOUND IN THE FIELD, THE CONTRACTOR SHALL NOTIFY AND SEEK THE APPROVAL OF THE ENGINEER PRIOR TO PERFORMING THE WORK.
12. IN AREAS OF NEW SIDEWALK, NEW EDGE OF PAVEMENT OR CURB WITHOUT SIDEWALK OR ANY WORK ADJACENT TO EXISTING GRASS AREAS, EVEN WHEN NO SLOPE-MATCHING OR GRADING IS NECESSARY AND THE EXISTING GRADE IS MET, LOAM AND SEED SHALL BE PROVIDED AS NECESSARY TO REPAIR AND COMPLETE ANY DAMAGE TO THE GRADE CAUSED BY THE CONSTRUCTION PROCESS.
13. TREES TO BE RETAINED WHICH RESTRICT SIGHT DISTANCE OR RESTRICT HORIZONTAL OR VERTICAL CLEARANCES SHALL BE TRIMMED AS REQUIRED BY THE ENGINEER.
14. WHEN WORKING NEXT TO EXISTING TREES, WALLS OR FENCES, THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION NOT TO DISTURB THE EXISTING WALL, TREE OR FENCE. IF THE CONTRACTOR DAMAGES EXISTING TREES, WALLS OR FENCES AS A RESULT OF THE CONSTRUCTION PROCESS IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ALL DAMAGES AS DIRECTED BY THE ENGINEER. ALL WORK ASSOCIATED WITH THE REPAIR OR REPLACEMENT OF EXISTING TREES, WALLS OR FENCES SHALL BE CONSIDERED AS INCLUDED IN THE BID PRICE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED THEREFORE.
15. THE CONTRACTOR SHALL CALL DIGSAFE (1-800-322-4844) A MINIMUM OF 72 HOURS PRIOR TO THE START OF ANY WORK.
16. DRAINAGE ELEVATIONS ARE PROVIDED FOR DESIGN PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY BY TEST PIT, THE LOCATIONS OF EXISTING UTILITIES WHICH MAY CONFLICT WITH THE PROPOSED DRAINAGE DESIGN. ANY FIELD ADJUSTMENTS REQUIRED WILL BE MADE AS APPROVED OR DIRECTED BY THE ENGINEER. ONLY AFTER THE CONTRACTOR VERIFIES ELEVATIONS FOR THE CONSTRUCTABILITY OF THE DRAINAGE SYSTEM SHALL ANY STRUCTURES BE ORDERED. ANY FIELD ADJUSTMENTS TO LINE & GRADE UP TO A DEPTH OF 5' SHALL BE INCLUDED IN THE COST OF THE PIPE. PIPE EXCAVATION GREATER THAN 5' WILL BE PAID UNDER CLASS B TRENCH EXCAVATION.
17. ANY ADJUSTMENTS MADE TO MUNICIPALLY OWNED SANITARY AND WATER MANHOLES, HYDRANTS, GATE BOXES, ETC... SHALL MEET APPLICABLE MUNICIPAL STANDARDS AND CRITERIA.
18. TREES AND SHRUBS NOT NOTED TO BE REMOVED, AND TREE SHRUBS NOTED "RET" ON THE DRAWINGS, SHALL BE PROTECTED BY THE CONTRACTOR DURING CONSTRUCTION OPERATIONS. TREES OR SHRUBS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN-KIND BY THE CONTRACTOR AT HIS OR HER OWN EXPENSE.
19. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE RETAINED UNLESS NOTED OTHERWISE.
20. ALL PROPOSED PERMANENT MARKINGS SHALL BE THERMOPLASTIC.
21. THE CONTRACTOR IS HEREBY NOTIFIED THAT ADDITIONAL WORK WITHIN THE PROJECT LIMITS MAY BE PERFORMED BY OTHERS.
22. THE CONTRACTOR SHALL COORDINATE ALL ACTIVITIES WITH OTHER CONTRACTORS PERFORMING WORK WITHIN AND AT THE PROJECT LIMITS.
23. THE CONTRACTOR MAY BE REQUIRED TO PERFORM ITEMS OF WORK OUT OF NORMAL SEQUENCE AND SCHEDULE, AS REQUIRED BY THE ENGINEER, IN ORDER TO MEET THE OVERALL PROJECT SCHEDULE.
24. THE CONTRACTOR SHALL BE REQUIRED TO PROCURE RELATED ITEMS WITHOUT ADVERSELY IMPACTING THE PROJECT SCHEDULE; THEREFORE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT THE APPROPRIATE SHOP DRAWINGS WITH SUFFICIENT LEAD TIME FOR PROCESSING IN ACCORDANCE WITH CONTRACT SPECIFICATIONS.
25. WETLAND RESOURCES MUST BE PROTECTED FROM SILTATION THROUGHOUT THE PROJECT. ALL EROSION CONTROLS MUST BE APPROVED BY THE RESIDENT ENGINEER PRIOR TO ANY CONSTRUCTION OR EARTHWORK.
26. THE CONTRACTOR SHALL PROVIDE EROSION PROTECTION AND SILTATION BARRIERS TO PROTECT ALL RESOURCE AREAS AND BUFFER ZONES AS APPLICABLE.
27. ALL EROSION CONTROLS BUST BE CHECKED/REPAIRED, AND ANY SILTATION REMOVED AFTER EACH RAIN EVENT.
28. ALL PROPOSED PAVEMENT MARKINGS SHALL MATCH EXISTING MARKINGS AT THE LIMITS OF WORK.
29. PRIOR WRITTEN NOTICE OF AT LEAST 48 HOURS SHALL BE GIVEN BY THE CONTRACTOR TO AFFECTED MUNICIPAL WATER AND FIRE DEPARTMENTS, WITH A COPY OF SUCH NOTICE SUBMITTED TO THE ENGINEER, BEFORE ANY WATER MAIN IS SHUT OFF AND IN NO CASE SHALL A GATE OR HYDRANT BE OPENED OR SHUT WITHOUT PROPER AUTHORIZATION.
30. THE CONTRACTOR SHALL COORDINATE ALL ARRANGEMENTS FOR THE ALTERATION AND/OR ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE, AND ANY OTHER PRIVATE UTILITY THROUGH THE MASSDOT HIGHWAY DIVISION UTILITY SECTION.
31. WITHIN AREAS OF RESURFACING OR RECONSTRUCTION, ALL EXISTING DRAINAGE MANHOLES, CATCH BASINS, SEWER MANHOLES, AND WATER GATES SHALL BE ADJUSTED TO PROPOSED LINE AND GRADE UNLESS OTHERWISE NOTED ON THE PLANS.
32. SHOP DRAWINGS OF ALL CASTINGS, PRECAST CONCRETE STRUCTURES, PIPE, AND OTHER MANUFACTURED ITEMS SHALL BE SUBMITTED FOR APPROVAL BY THE ENGINEER, IN CONFORMANCE WITH CONTRACT SPECIFICATIONS, AND SAID APPROVAL SHALL BE REQUIRED PRIOR TO INITIATING PROCUREMENT OF MATERIALS.
33. ALL DRAINAGE STRUCTURES TO BE ABANDONED SHALL BE FILLED WITH GRAVEL AND ALL CONNECTIONS SHALL BE PLUGGED AT THE PIPE LOCATIONS WITH A CEMENT CONCRETE MASONRY PLUG.
34. FINAL LOCATION OF TRAFFIC SIGNS AND SUPPORTS AS SHOWN IN THE PLANS SHALL BE FIELD-CONFIRMED BY THE ENGINEER PRIOR TO INSTALLATION.

WHEELCHAIR RAMP NOTES

1. ALL WHEELCHAIR RAMPS SHALL CONFORM TO THE REQUIREMENTS OF THE ARCHITECTURAL ACCESS BOARD (A.A.B) AND THE AMERICANS WITH DISABILITIES ACT (A.D.A.).
2. ALL PROPOSED CURB FOR WHEELCHAIR RAMP TRANSITIONS SHALL BE CUT AND TRANSITIONED AS NECESSARY TO PROVIDE THE CORRECT TRANSITION LENGTHS FOR EACH WHEELCHAIR RAMP, AS SHOWN ON WHEELCHAIR RAMP DETAILS OR AS REQUIRED BY THE ENGINEER. ANY EXISTING CURB INLETS IN AREAS OF NEW WHEELCHAIR RAMP TRANSITIONS, SHALL BE REMOVED AND REPLACED WITH APPROPRIATE TRANSITION CURB, AS DIRECTED BY THE ENGINEER.
3. IN NO CASE, EXCEPT MAXIMUM LENGTH HIGH SIDE TRANSITIONS, SHALL ANY TRANSITION SLOPE OF ANY WHEELCHAIR RAMP EXCEED 7.5%. PROPOSED WHEELCHAIR RAMP SLOPES, ESPECIALLY HIGH SIDE TRANSITIONS, SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO POURING OF CONCRETE, AND ADJUSTED, IF NECESSARY, AS REQUIRED BY THE ENGINEER.
4. IN INSTANCES WHERE AN EXISTING MANHOLE, HANDHOLE OR OTHER "SURFACE" TYPE STRUCTURE THAT CANNOT BE REMOVED OR RESET, IS WITHIN THE ACTUAL WHEELCHAIR RAMP PATH, THE STRUCTURE SHALL BE CAREFULLY ADJUSTED SUCH THAT THE TOPMOST SURFACES OF THE STRUCTURE COVER SHALL BE FLUSH WITH THE RAMP SURFACE AND SHALL MATCH THE SLOPE OF THE NEW WHEELCHAIR RAMP EXACTLY, AS REQUIRED BY THE ENGINEER.
5. THE LOCATION OF PROPOSED WHEELCHAIR RAMPS ARE SHOWN ON CONSTRUCTION PLANS AND THE WHEELCHAIR RAMP DETAILS. EXACT LOCATIONS MAY BE ADJUSTED, IF REQUIRED, BY THE ENGINEER IN THE FIELD.
6. ALL PROPOSED WHEEL CHAIR RAMPS SHALL HAVE DETECTABLE WARNING PANELS INSTALLED IN ACCORDANCE WITH MASSDOT STANDARD DRAWING E 107.6.5.

BUCKEYE ROW TEST PIT SUMMARY

TEST PIT #	DATE	LOCATION	APPROX. STATION	APPROX. EXIST. GROUND SURFACE ELEVATION	APPROX. DEPTH TO TOP OF PIPE BELOW GRADE
TP-1	4/7/2021	AGNEW ST.	STA 705+47 6' RT	151.5	30"
TP-2	4/8/2021	AGNEW ST.	STA 705+70 9' LT	150.8	51"
TP-3A	4/7/2021	MCKNIGHT TRAIL WEST	STA 16+93 9' RT	145.8	NOT LOCATED: >72" *
TP-4A	4/8/2021	MCKNIGHT TRAIL WEST	STA 16+98 10' LT	145.3	NOT LOCATED: >72"
TP-5	4/7/2021	MCKNIGHT TRAIL WEST	STA 17+63 11' RT	147.0	NOT LOCATED: >72" *
TP-6	4/7/2021	MCKNIGHT TRAIL WEST	STA 18+60 0' RT	147.7	48"
TP-7	4/7/2021	MCKNIGHT TRAIL WEST	STA 20+12 5.5' LT	149.7	42"
TP-8	4/7/2021	MCKNIGHT TRAIL WEST	STA 20+75 8' LT	150.6	26"
TP-9	4/7/2021	MCKNIGHT TRAIL WEST	STA 26+75 4' LT	159.3	36" *
TP-10A	4/8/2021	MCKNIGHT TRAIL WEST	STA 26+20 5' LT	159.0	57"
TP 11-13 OMITTED FROM PROJECT					
TP-14A	4/8/2021	MCKNIGHT TRAIL WEST	STA 69+77 36' LT	205.7	35"
TP-14B	4/8/2021	MCKNIGHT TRAIL WEST	STA 69+75 32' LT	205.7	27"
TP-15A	4/8/2021	MCKNIGHT TRAIL EAST	STA 400+19 30' LT	205.5	39"
TP-15B	4/8/2021	MCKNIGHT TRAIL EAST	STA 400+19 27' LT	205.5	36"
TP-15C	4/8/2021	MCKNIGHT TRAIL EAST	STA 400+19 23' LT	205.5	35"
TP-16	4/8/2021	MCKNIGHT TRAIL EAST	STA 414+95 8' LT	205.1	43"
TP-17	4/8/2021	HAYDEN AVENUE	STA 600+71 30' RT	204.7	34"

* ORANGE WARNING MESH MARKER OBSERVED IN TEST PIT. BUCKEYE PIPELINE REPRESENTATIVE INDICATED THE MARKER WAS INSTALLED IN SOME AREAS OF THE PIPELINE

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	4	66
PROJECT FILE NO.	608157		

KEY PLAN & BORING LOCATIONS

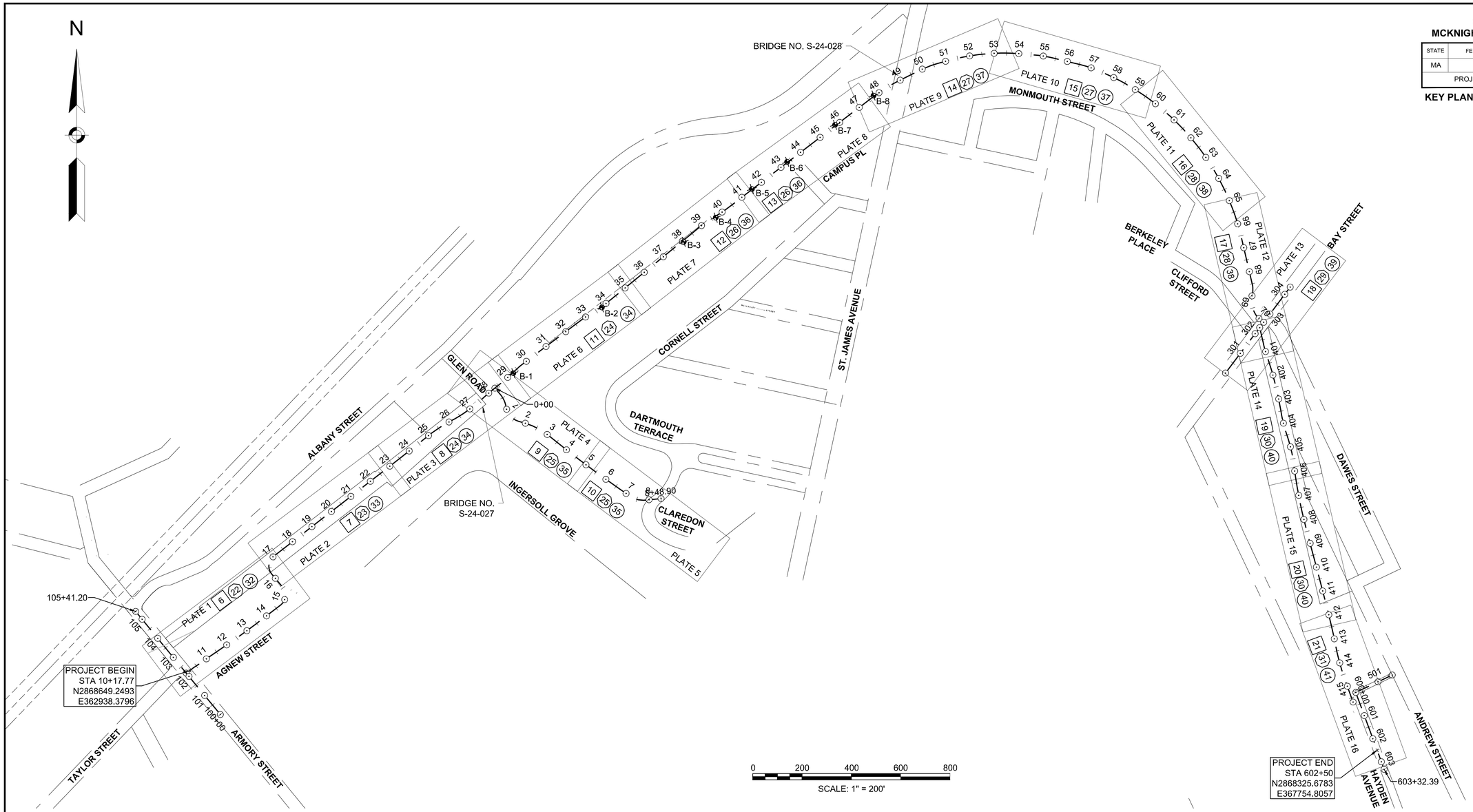


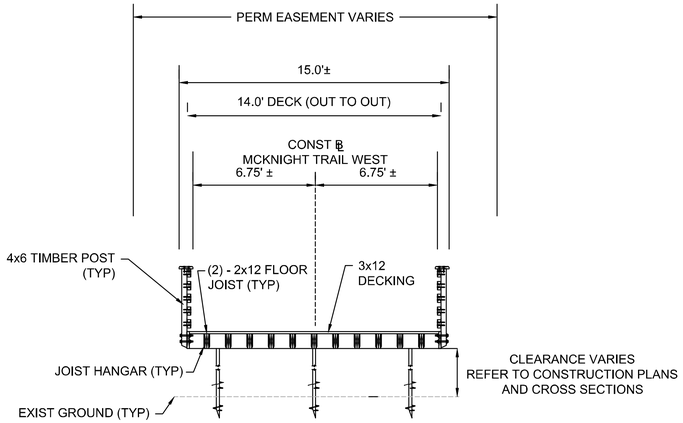
	PLATE 1	PLATE 2	PLATE 3	PLATE 4	PLATE 5	PLATE 6	PLATE 7	PLATE 8	PLATE 9	PLATE 10	PLATE 11	PLATE 12	PLATE 13	PLATE 14	PLATE 15	PLATE 16
CONSTRUCTION PLANS & PROFILES	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
UTILITY PLANS	22	23	24	25	25	24	26	26	27	27	28	28	29	30	30	31
SIGN & PAVEMENT MARKING PLANS	32	33	34	35	35	34	36	36	37	37	38	38	39	40	40	41
TRAFFIC SIGNAL PLAN	-	-	-	-	-	-	-	-	-	-	-	-	42	-	-	-

SHEET NUMBER LEGEND

- XX — CONSTRUCTION PLAN
- XX — CURB TIE PLAN
- XX — GRADING PLAN
- XX — DRAINAGE & UTILITY PLAN
- XX — SIGN & PAVEMENT MARKING PLAN
- C - # CORING LOCATION
- B - # BORING LOCATION

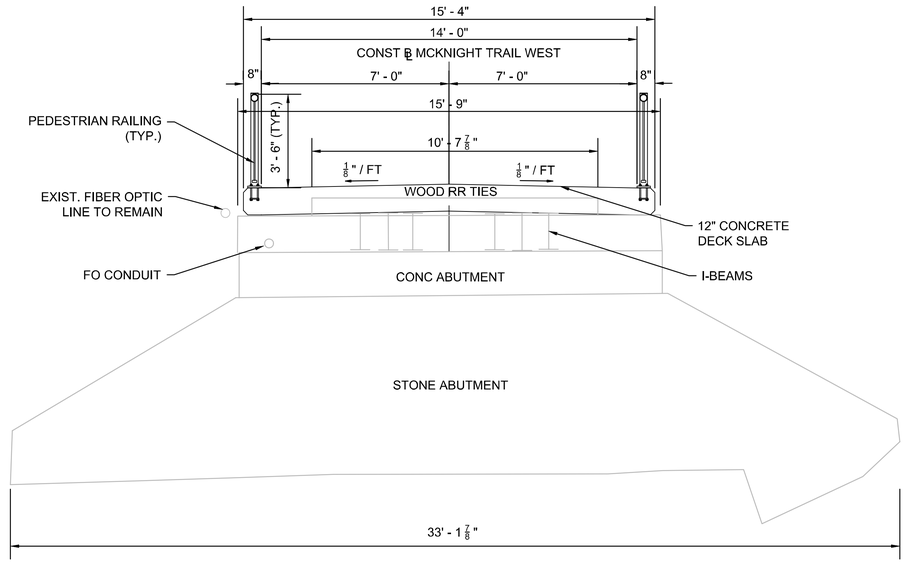
HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

608157_HD(KP).DWG Plotted on 23-Jul-2021 12:29 PM



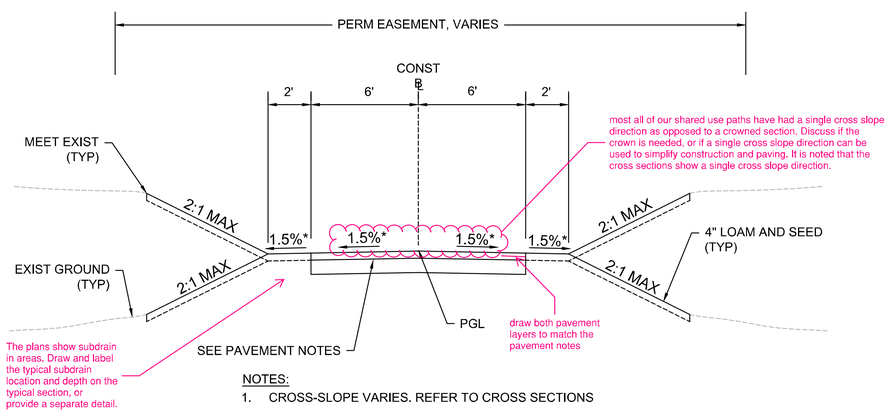
PEDESTRIAN FOOTBRIDGE

STA 33+01 TO STA 47+87
MCKNIGHT COMMUNITY TRAIL
NOT TO SCALE



GLEN ROAD BRIDGE TYPICAL SECTION

STA 27+59 TO STA 27+77
MCKNIGHT COMMUNITY TRAIL
NOT TO SCALE

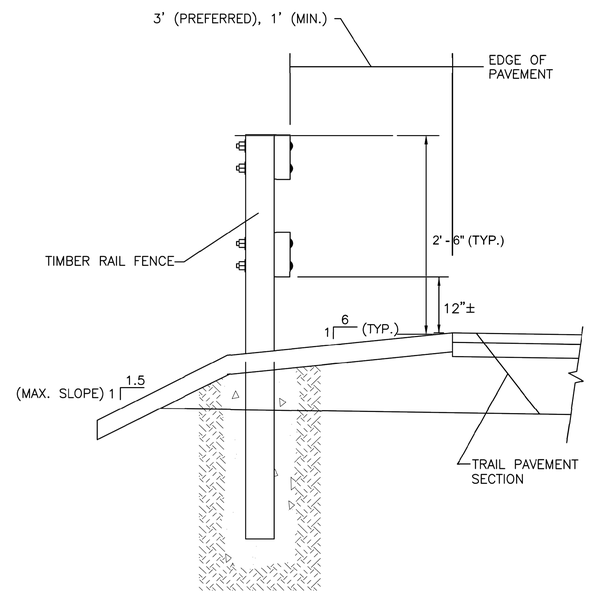


NOTES:
1. CROSS-SLOPE VARIES. REFER TO CROSS SECTIONS

SHARED USE PATH (HMA)

STA 400+32 TO STA 415+37
STA 47+87 TO STA 69+97
STA 14+74 TO STA 33+01
MCKNIGHT COMMUNITY TRAIL

STA 0+36 TO STA 7+85
GLEN ROAD CONNECTOR TRAIL
NOT TO SCALE



TIMBER FENCE TYPICAL SECTION

MCKNIGHT COMMUNITY TRAIL
NOT TO SCALE

* TOLERANCE FOR CONSTRUCTION ±0.5%

SEE CONSTRUCTION PLANS FOR LIMITS

PAVEMENT NOTES

SHARED USE PATH (HMA)

SURFACE COURSE: 1 1/2" SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5) OVER

INTERMEDIATE COURSE: 2 1/2" SUPERPAVE INTERMEDIATE COURSE 19.0 (SIC-19.0) OVER

SUBBASE: 8" GRAVEL BORROW, TYPE B OVER 24" SPECIAL BORROW (AS REQUIRED IN AREAS OF WETLANDS AND OTHER UNSUITABLE MATERIAL)

PROPOSED MICROMILLING & OVERLAY

SURFACE COURSE: 1 3/4" SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5) OVER

PAVEMENT MILLING: 1 3/4" ± 3/4" MIN. PAVEMENT MICROMILLING

PROPOSED FULL DEPTH PAVEMENT (GREATER THAN 4' WIDE)

SURFACE COURSE: 1 3/4" SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5) OVER

INTERMEDIATE COURSE: 2" SUPERPAVE INTERMEDIATE COURSE 19.0 (SIC-19.0) OVER

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

SUBBASE: 8" GRAVEL BORROW (TYPE B)

PROPOSED FULL DEPTH PAVEMENT (LESS THAN 4' WIDE)

SURFACE COURSE: 1 3/4" SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5) OVER

INTERMEDIATE COURSE: 2" SUPERPAVE INTERMEDIATE COURSE 19.0 (SIC-19.0) OVER

BASE COURSE: 6" HIGH EARLY STRENGTH CEMENT CONCRETE OVER

SUBBASE: 8" GRAVEL BORROW (TYPE B)

PROPOSED HMA WALK

SURFACE COURSE: 1" SUPERPAVE SURFACE COURSE 9.5 (SSC-9.5) OVER

INTERMEDIATE COURSE: 1 1/2" SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5)

SUBBASE: 8" GRAVEL BORROW, TYPE B

See Section 702.41E of the Standard Specs for HMA Walks and Driveway mixes and thicknesses

PROPOSED CEMENT CONCRETE WHEELCHAIR RAMPS

SURFACE COURSE: 4" CEMENT CONCRETE OVER

SUBBASE: 8" GRAVEL BORROW, TYPE B

PROPOSED HMA DRIVEWAY AND HMA PARKING

SURFACE COURSE: 1 1/2" SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5) OVER

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

SUBBASE: 8" GRAVEL BORROW, TYPE B

GRAVEL PARKING

SURFACE COURSE: 8" GRAVEL BORROW, TYPE B

NOTES:
1. ASPHALT EMULSION FOR TACK COAT AT 0.07 GAL/SY OVER MICROMILLED SURFACE AND AT 0.05 GAL/SY OVER SMOOTH PAVEMENTS
These tack rates are outdated. See Section 450.43G(2) of the Standard Specifications

608157_HD(TYP).DWG Plotted on 23-Jul-2021 12:30 PM

HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
NONE

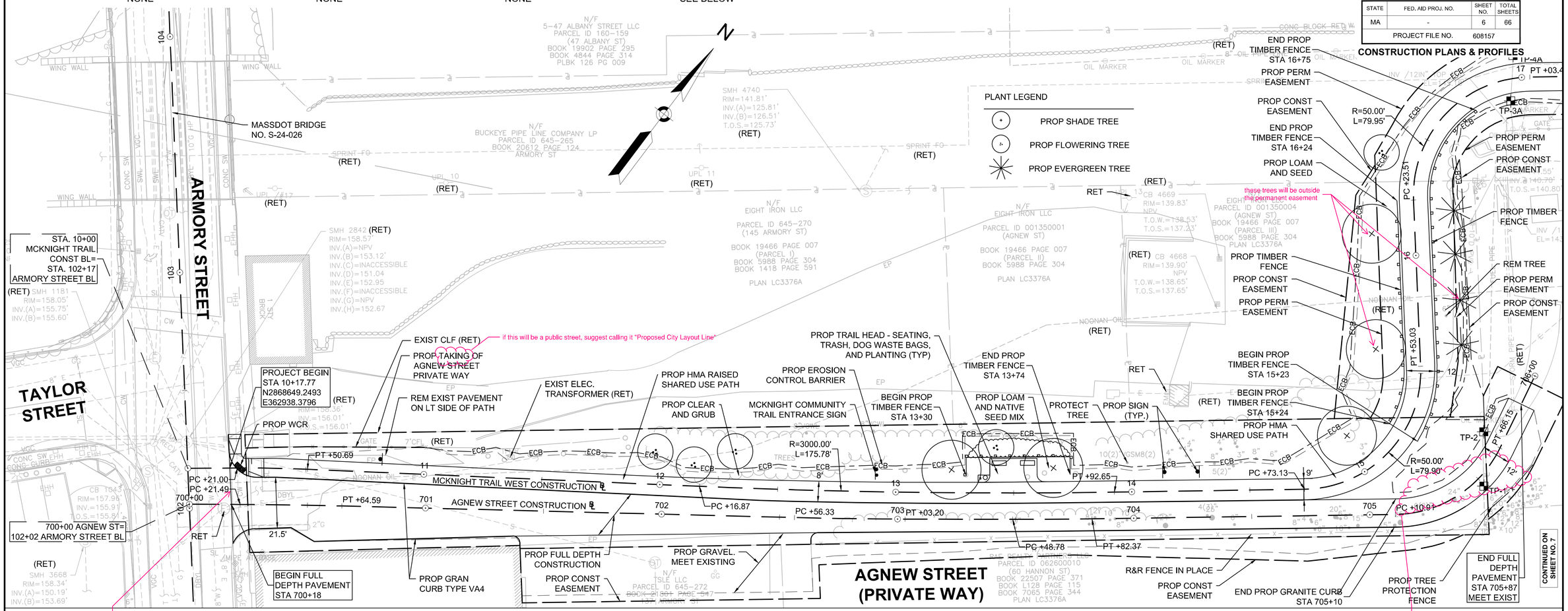
WATER SUPPLY ALTERATIONS
NONE

DRAINAGE DETAILS
SEE BELOW

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	6	66
PROJECT FILE NO.	608157		

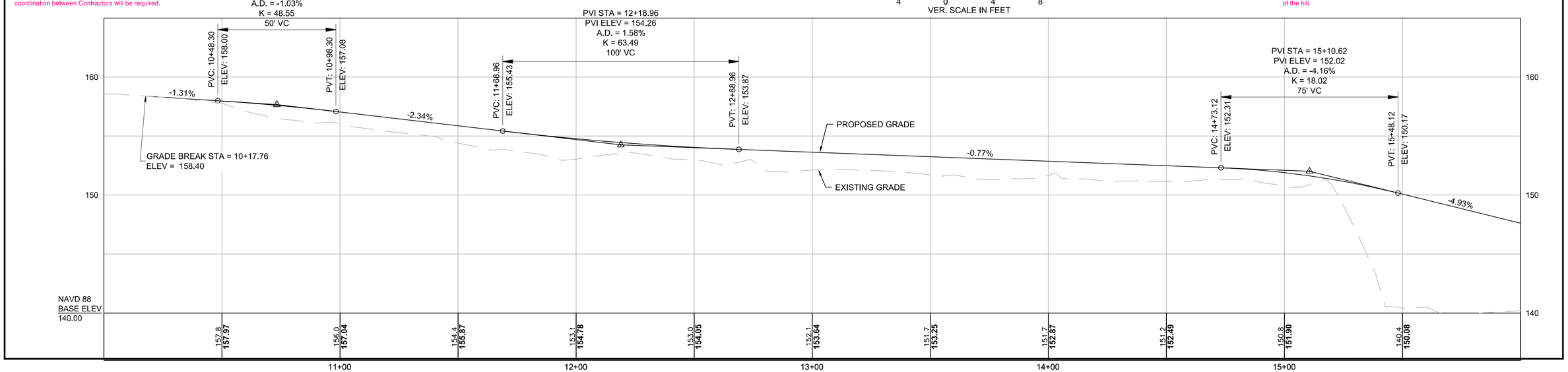
CONSTRUCTION PLANS & PROFILES



This project abuts future bridge replacement project 609409 with an ad date of 11-9-2024. It doesn't look like there is direct conflict with the work, but if the two projects happen at the same time coordination between Contractors will be required.

There are existing washouts here in the private gravel driveway from water running down the unpaved access road. Based on this it looks like drainage will need to be intercepted along the proposed Agnew Street to prevent runoff from causing problems at the bottom of the hill.

HOR. SCALE IN FEET 20 0 20 40
VER. SCALE IN FEET 4 0 4 8



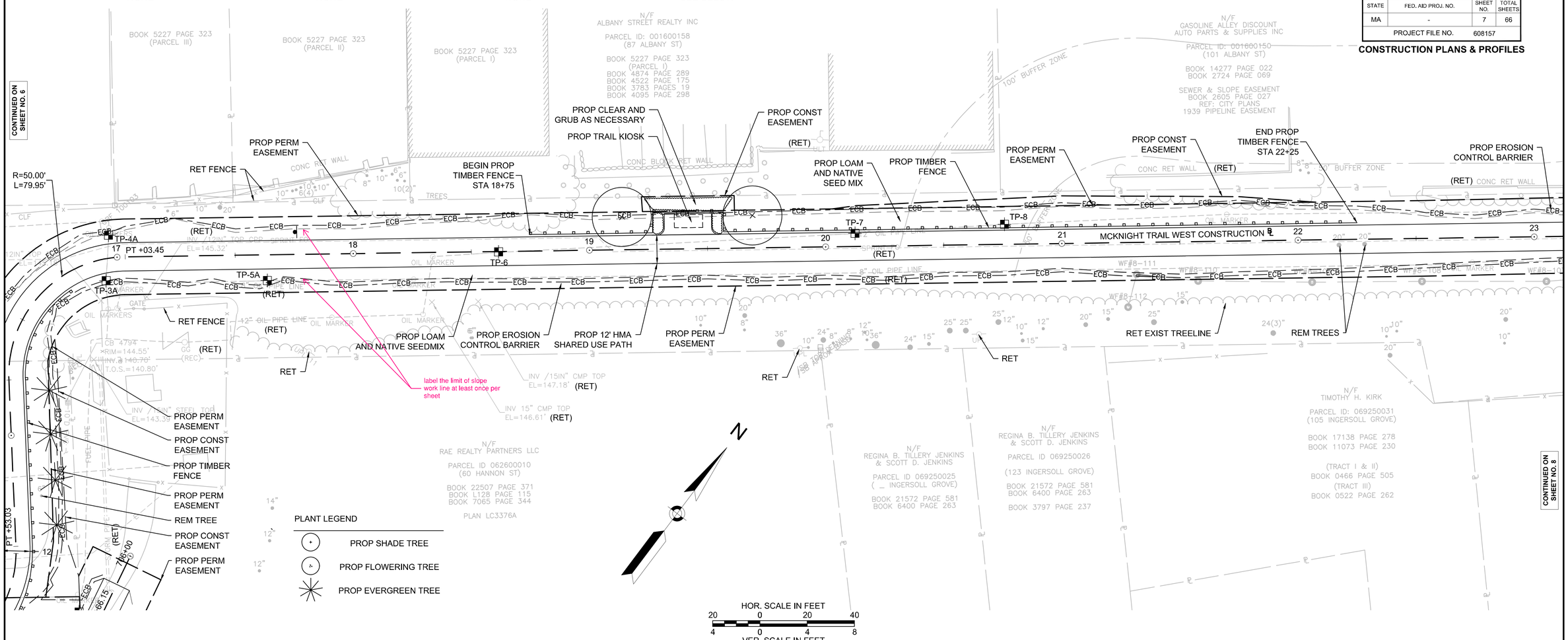
MASSDOT_R4.3_V2018.DWT Plotted on 6-Mar-2019 3:10 PM

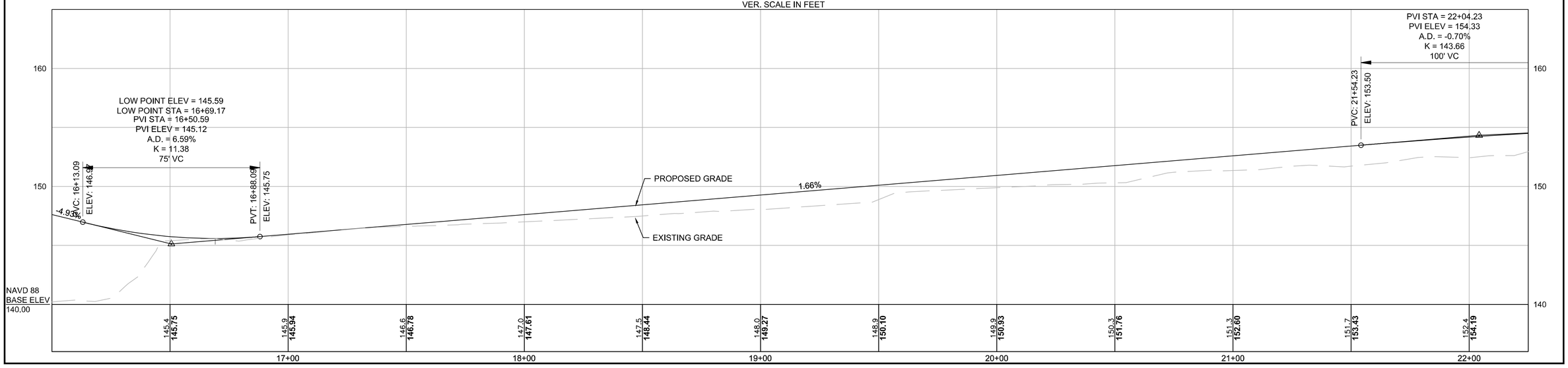
HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
NONE	NONE	NONE	SEE BELOW

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	7	66
PROJECT FILE NO.	608157		

CONSTRUCTION PLANS & PROFILES





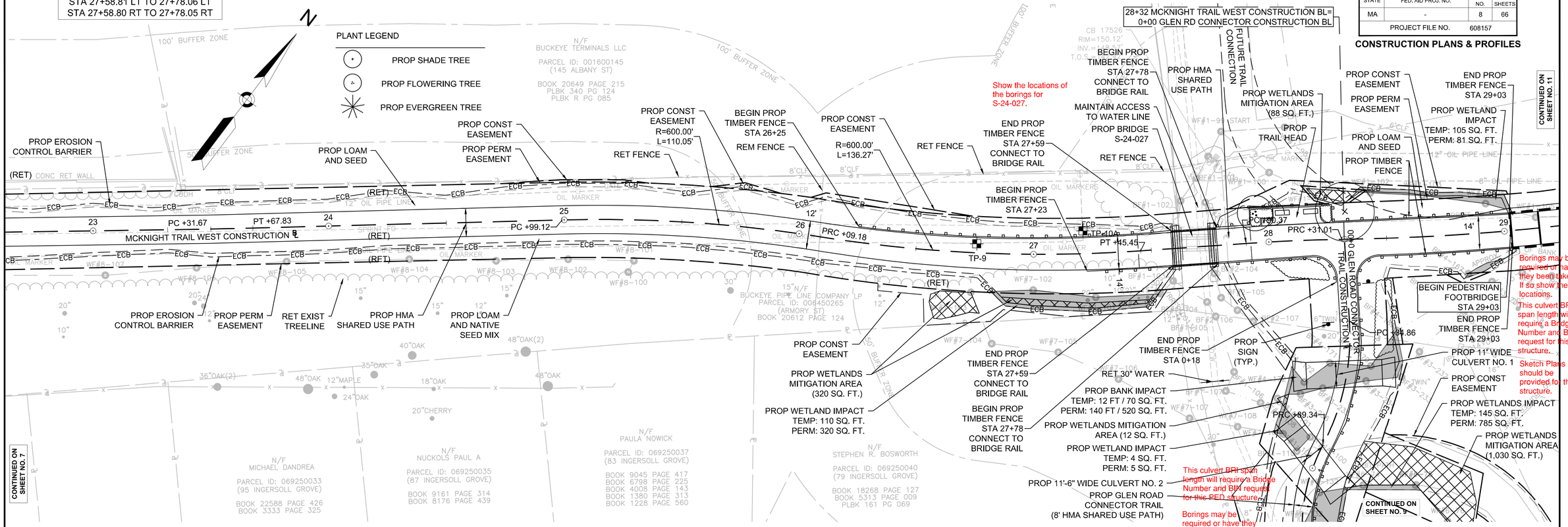
Plotted on 6-Mar-2019 3:10 PM
MASSDOT_R4.3_V2018.DWT

HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
BRIDGE RAIL STA 27+58.81 LT TO 27+78.06 LT STA 27+58.80 RT TO 27+78.05 RT	NONE	NONE	SEE BELOW

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	8	66
PROJECT FILE NO.	608157		

CONSTRUCTION PLANS & PROFILES



Show the locations of the borings for S-24-027.

Borings may be required or have they been taken? If so show the locations.

This culvert BRI span length will require a Bridge Number and BIN request for this PED structure.

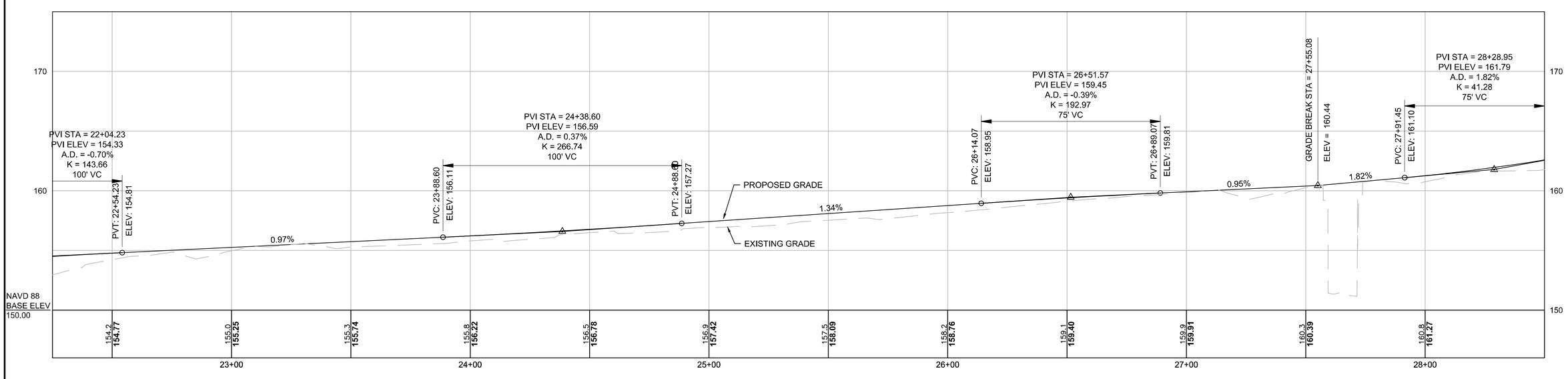
Sketch Plans should be provided for this structure.

This culvert BRI span length will require a Bridge Number and BIN request for this PED structure.

Borings may be required or have they been taken? If so show the locations.

Sketch Plans should be provided for this structure.

Are hydraulic and geotechnical reports required for these two culverts?



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MASSDOT_R4.3_V2018.DWT

HIGHWAY GUARD DETAILS
SEE SHEET 8

TRAFFIC SIGNAL CONDUIT
NONE

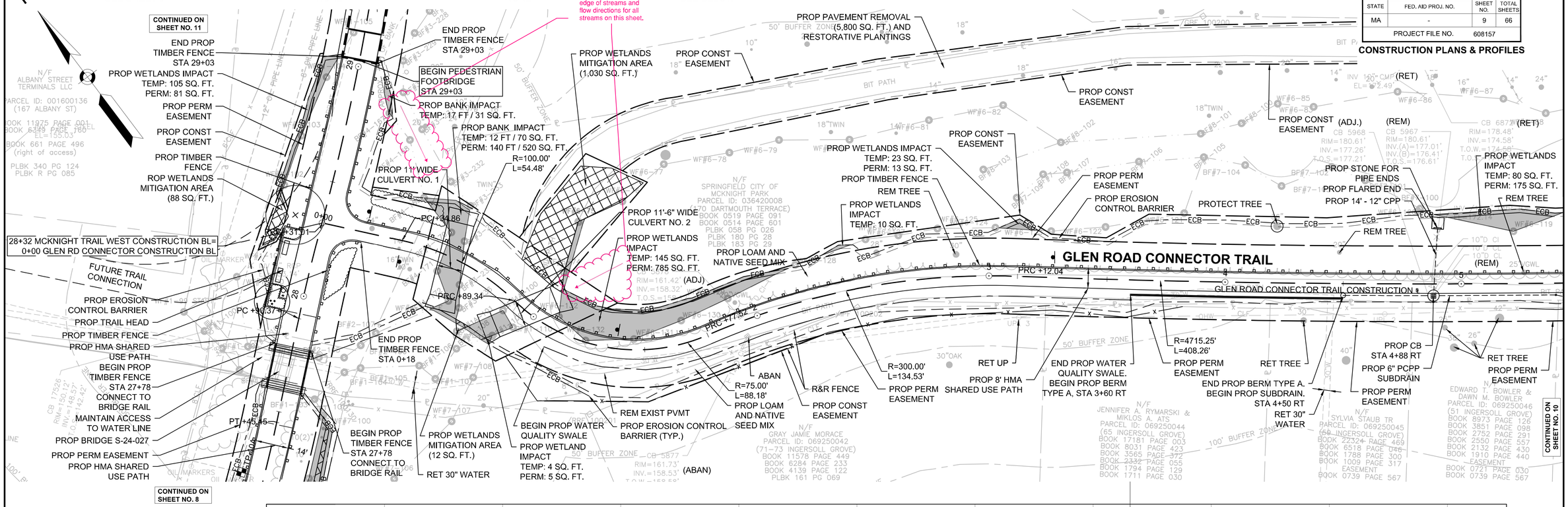
WATER SUPPLY ALTERATIONS
NONE

DRAINAGE DETAILS
SEE BELOW

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	9	66
PROJECT FILE NO.	608157		

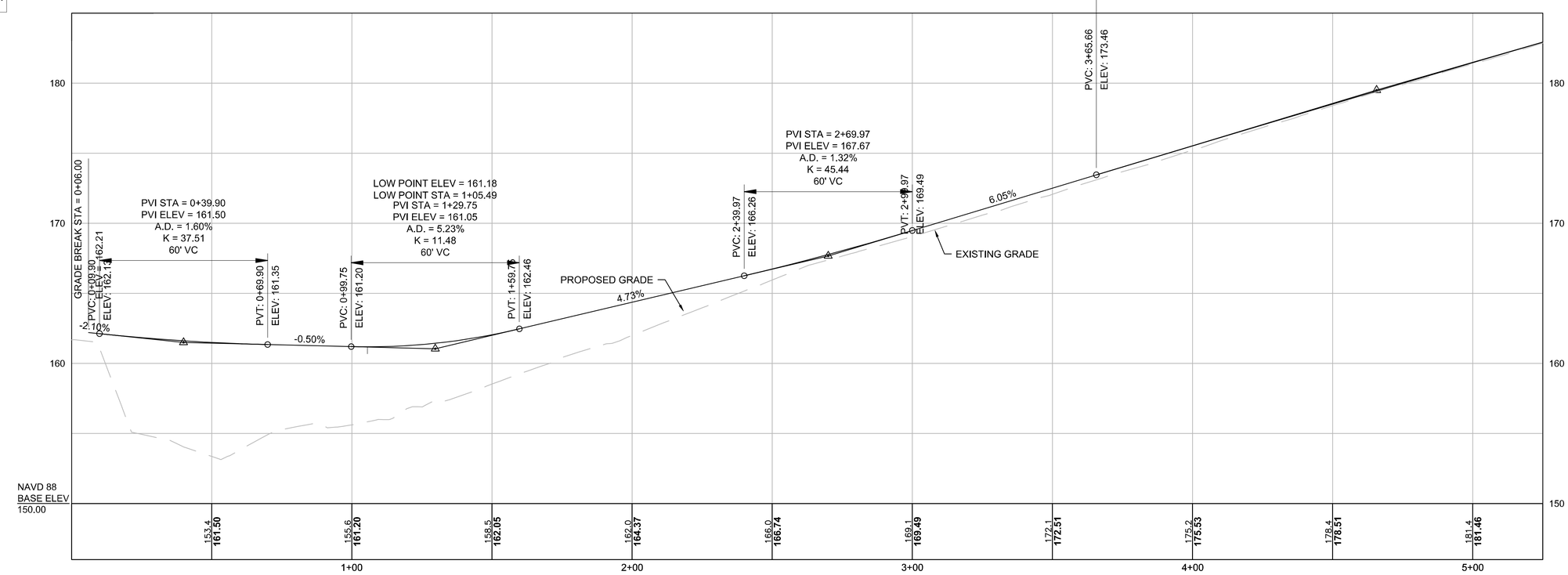
CONSTRUCTION PLANS & PROFILES



PLANT LEGEND

- PROP SHADE TREE
- PROP FLOWERING TREE
- PROP EVERGREEN TREE

HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET



MASSDOT_R4.3_V2018.DWT Plotted on 6-Mar-2019 3:10 PM

HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
NONE

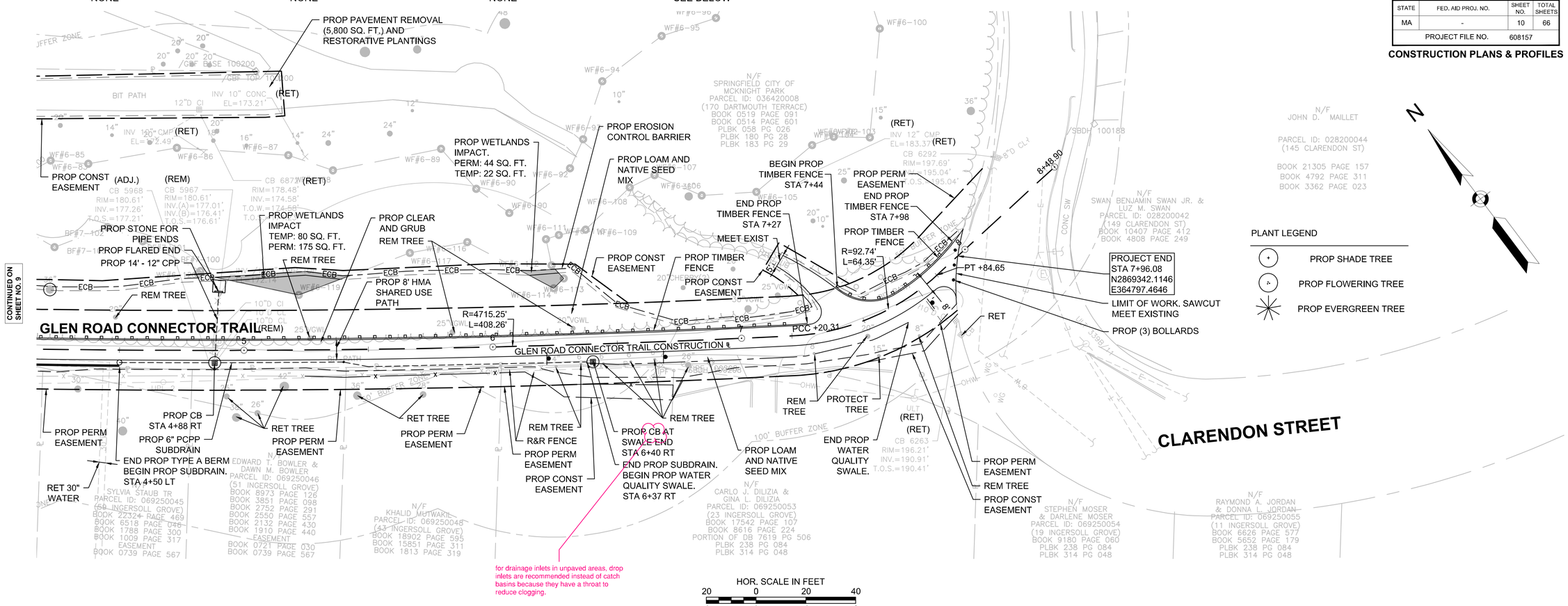
WATER SUPPLY ALTERATIONS
NONE

DRAINAGE DETAILS
SEE BELOW

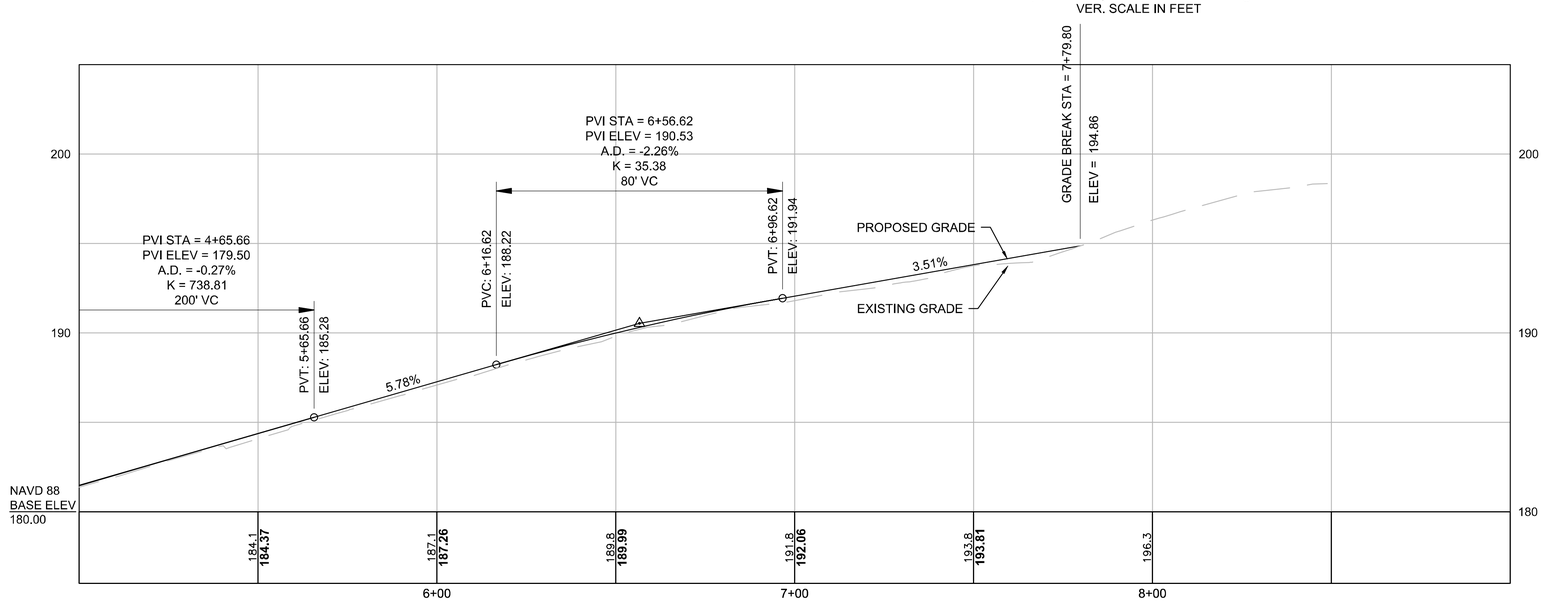
SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	10	66
PROJECT FILE NO.	608157		

CONSTRUCTION PLANS & PROFILES



HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET



MASSDOT_R4.3_V2018.DWT Plotted on 6-Mar-2019 3:10 PM

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

NONE

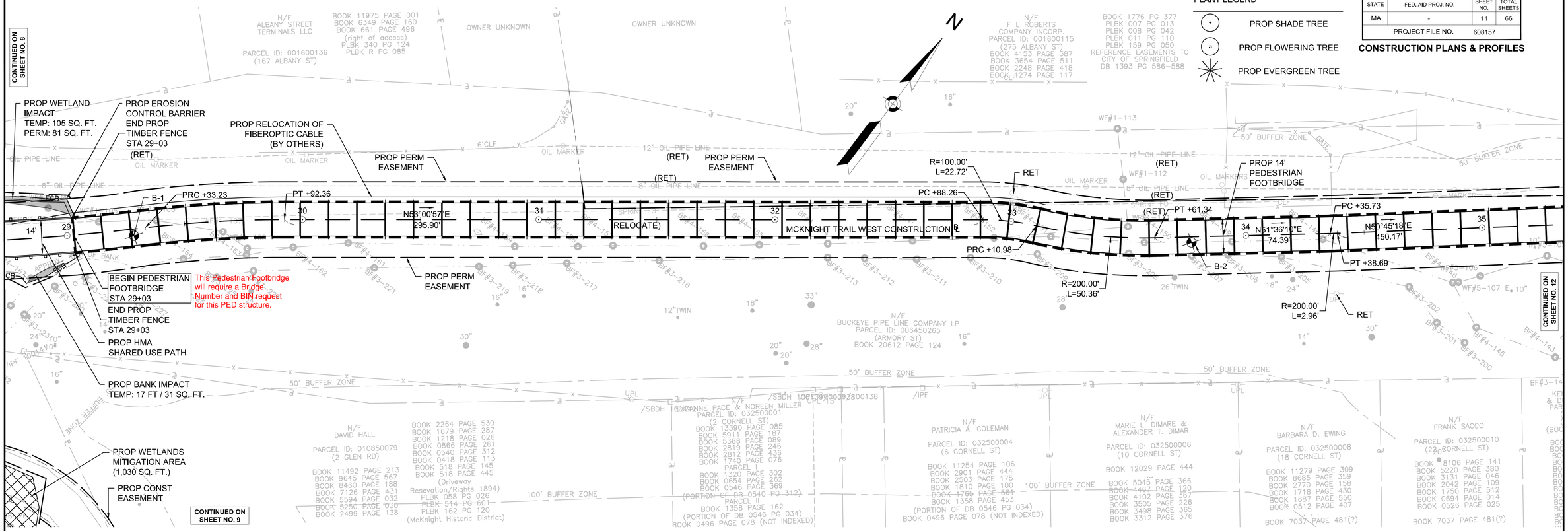
PLANT LEGEND

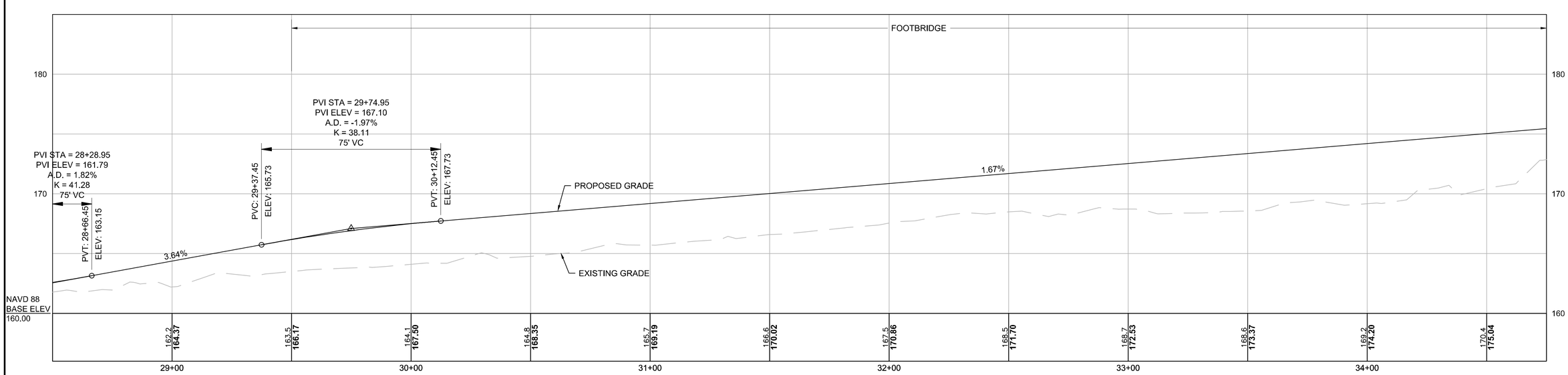
- PROP SHADE TREE
- PROP FLOWERING TREE
- PROP EVERGREEN TREE

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	11	66
PROJECT FILE NO.	608157		

CONSTRUCTION PLANS & PROFILES





MASSDOT_R4.3_V2018.DWT Plotted on 6-Mar-2019 3:10 PM

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

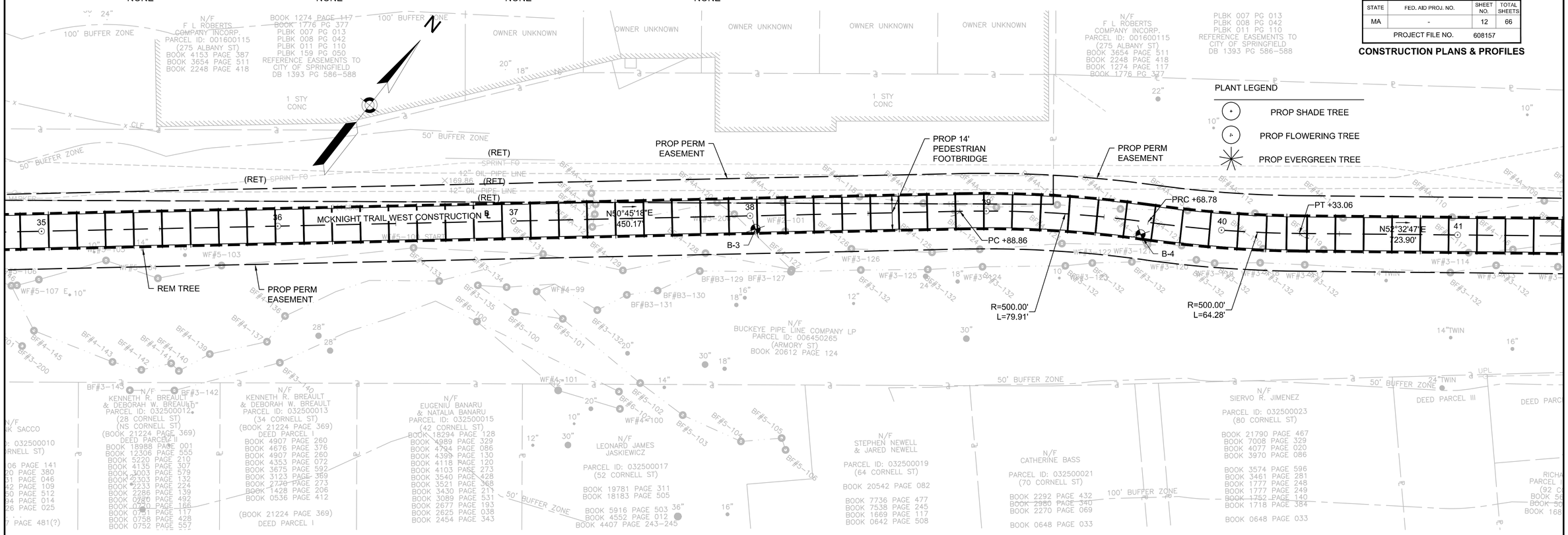
DRAINAGE DETAILS

NONE

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

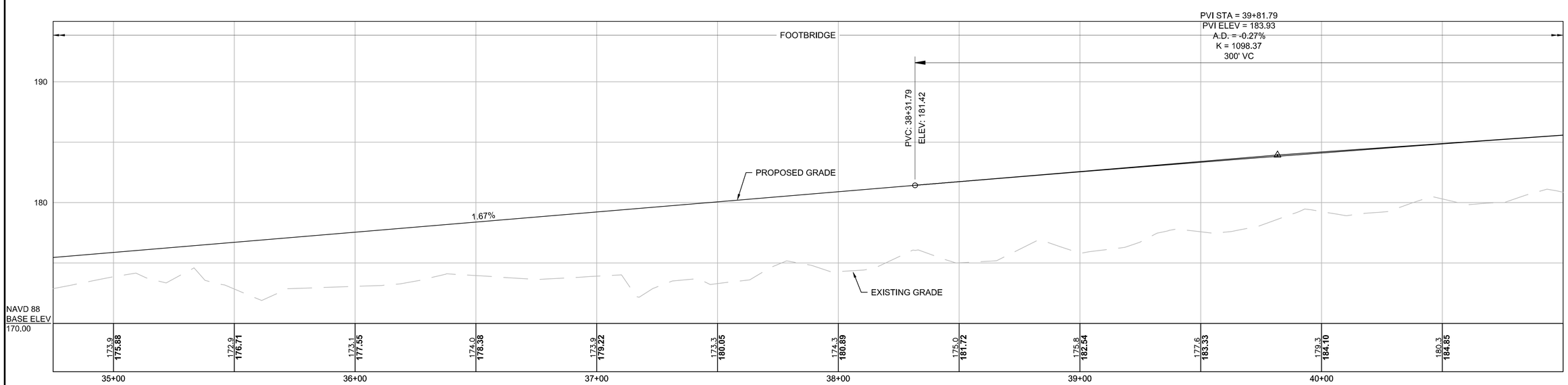
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	12	66
PROJECT FILE NO.	608157		

CONSTRUCTION PLANS & PROFILES



CONTINUED ON SHEET NO. 11

CONTINUED ON SHEET NO. 13



MASSDOT_R4.3_V2018.DWT Plotted on 6-Mar-2019 3:10 PM

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

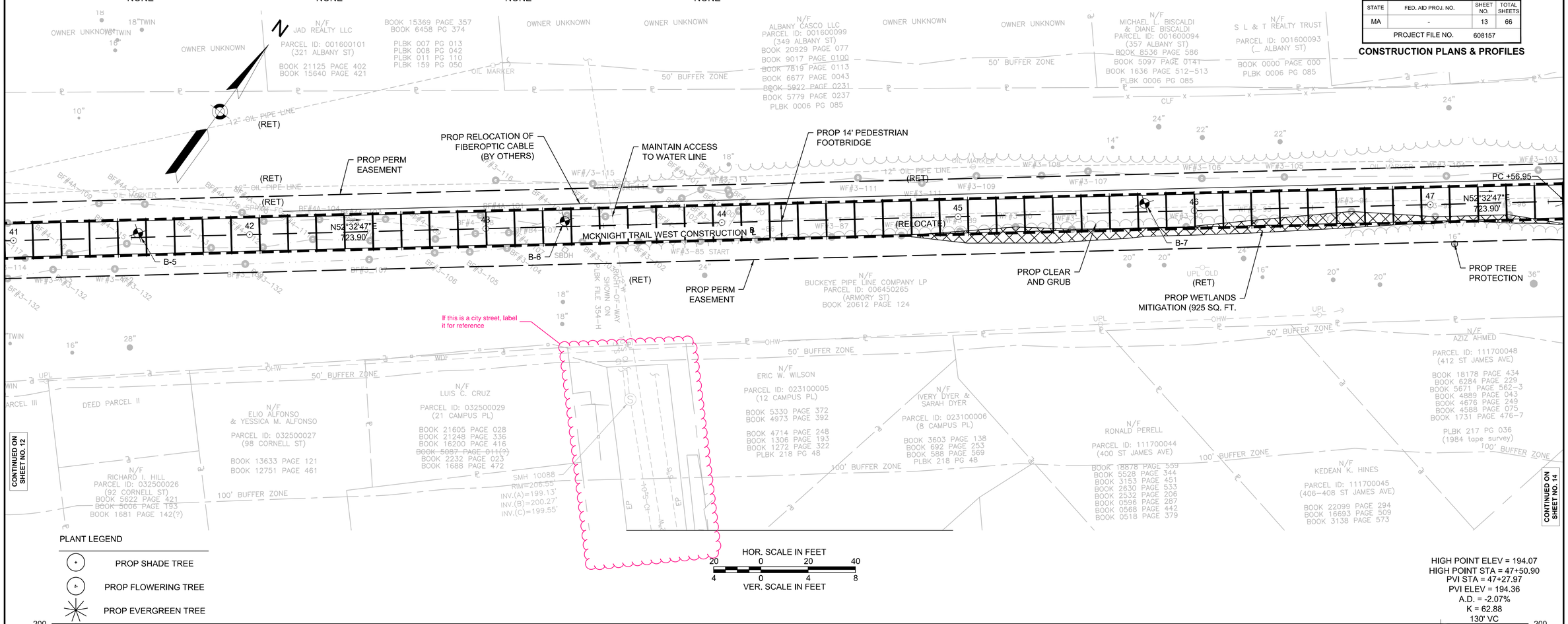
DRAINAGE DETAILS

NONE

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

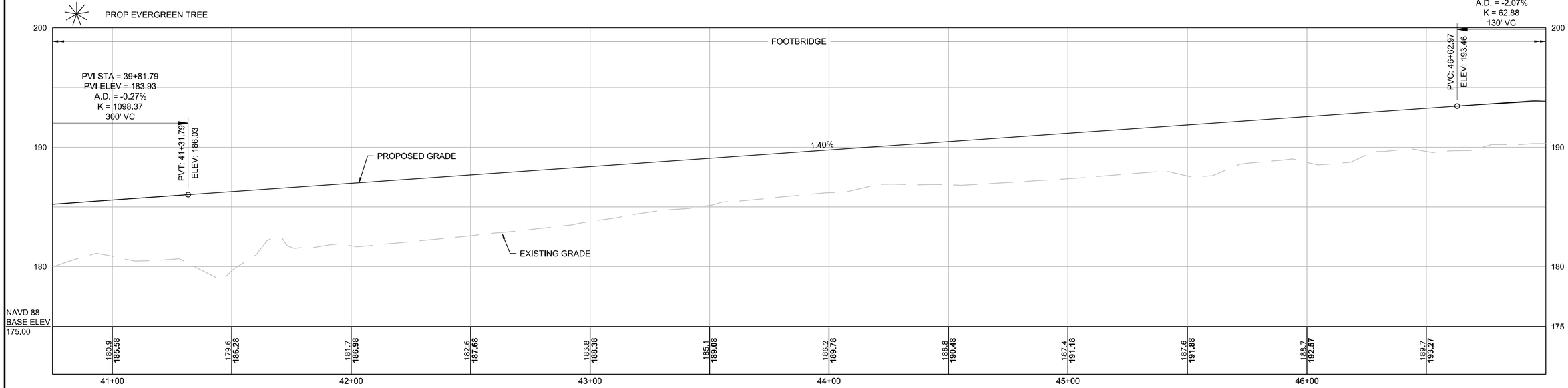
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	13	66
PROJECT FILE NO.	608157		

CONSTRUCTION PLANS & PROFILES



PLANT LEGEND

- PROP SHADE TREE
- PROP FLOWERING TREE
- PROP EVERGREEN TREE



MASSDOT_R4.3_V2018.DWT Plotted on 6-Mar-2019 3:10 PM

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

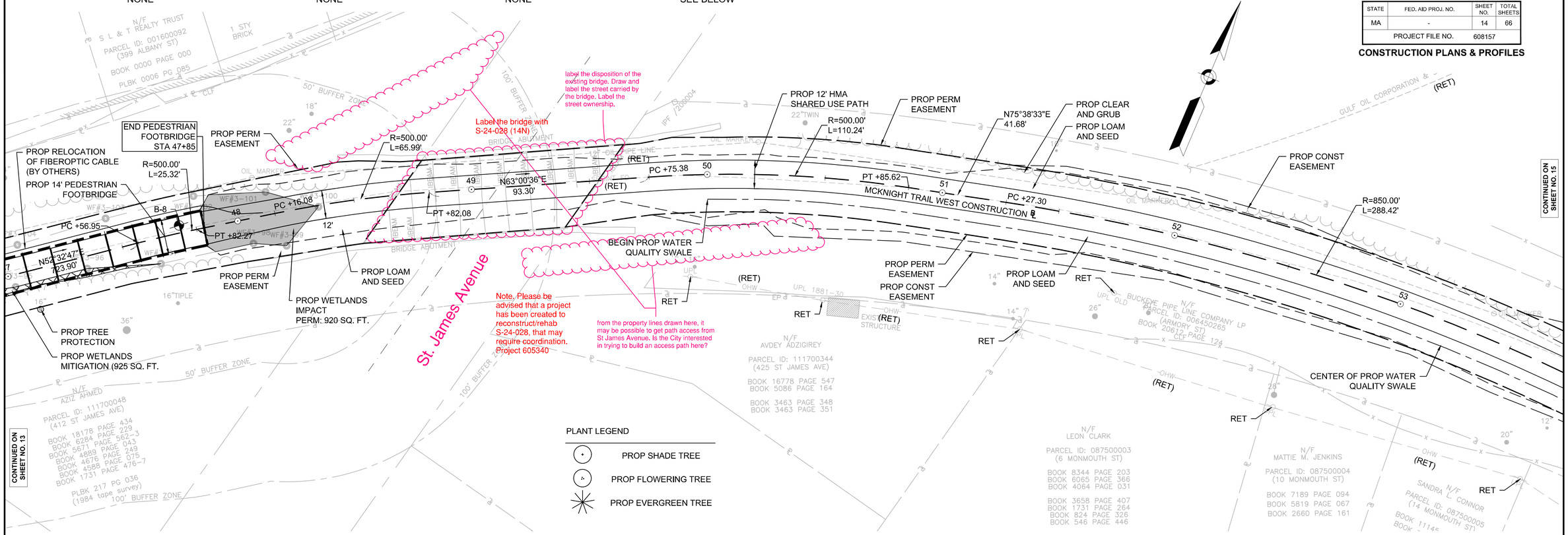
DRAINAGE DETAILS

SEE BELOW

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	14	66
PROJECT FILE NO.	608157		

CONSTRUCTION PLANS & PROFILES



MASSDOT_R4.3_V2018.DWT Plotted on 6-Mar-2019 3:10 PM

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

NONE

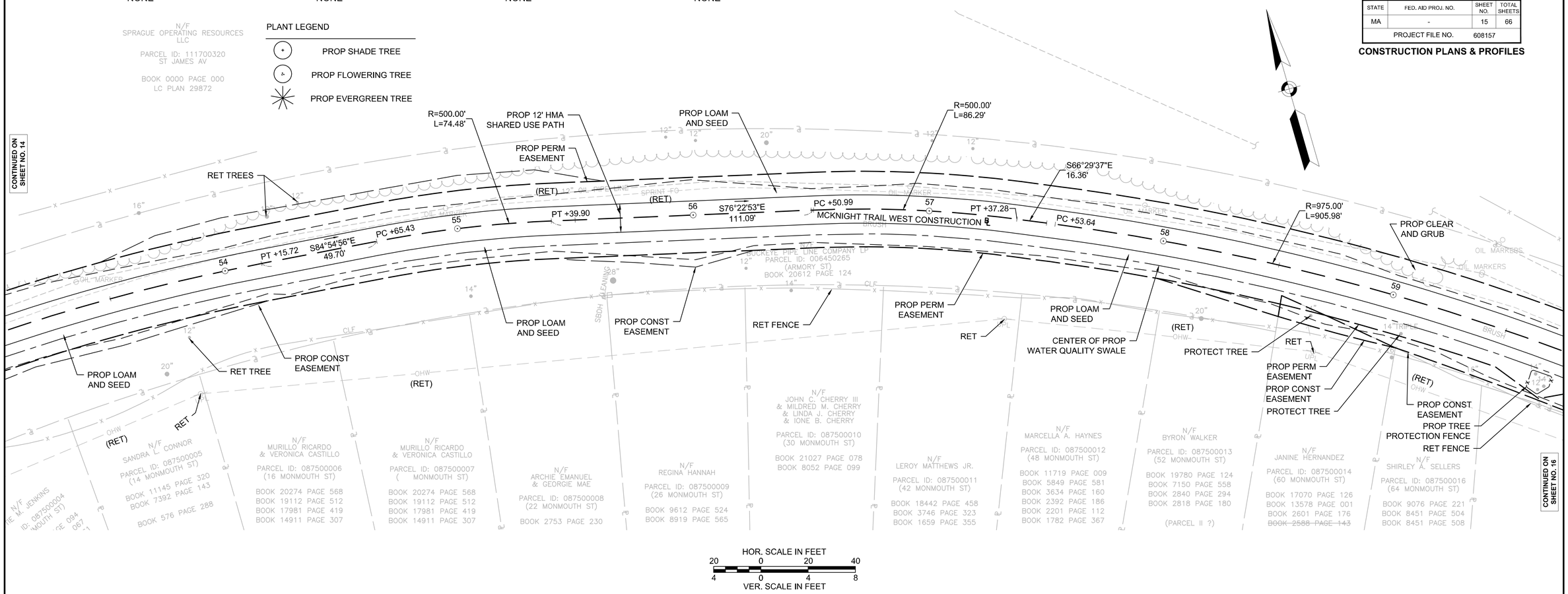
PLANT LEGEND

- PROP SHADE TREE
- PROP FLOWERING TREE
- PROP EVERGREEN TREE

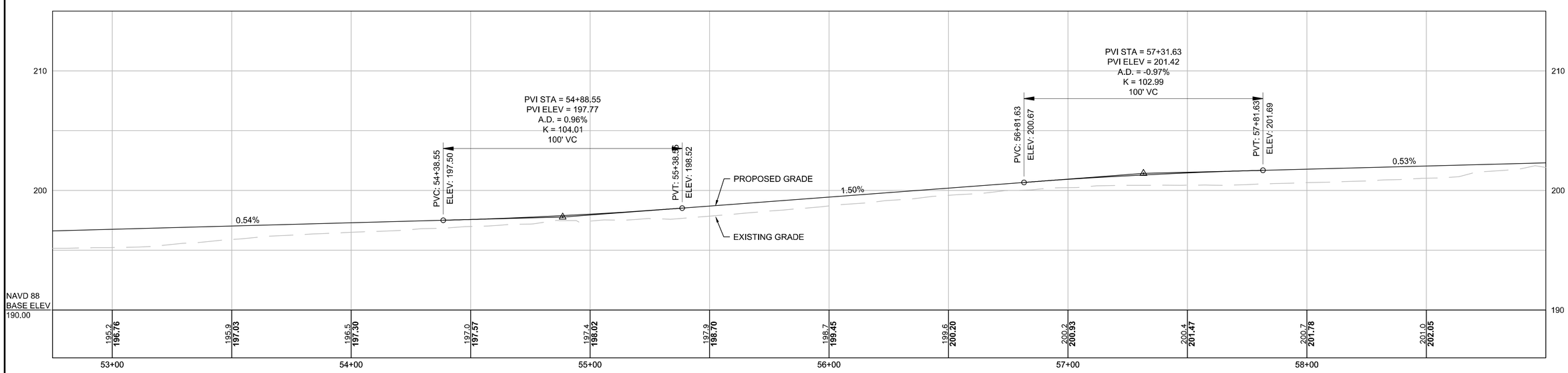
SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	15	66
PROJECT FILE NO.	608157		

CONSTRUCTION PLANS & PROFILES



HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET



MASSDOT_R4.3_V2018.DWT Plotted on 6-Mar-2019 3:10 PM

HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
NONE	NONE	NONE	SEE BELOW

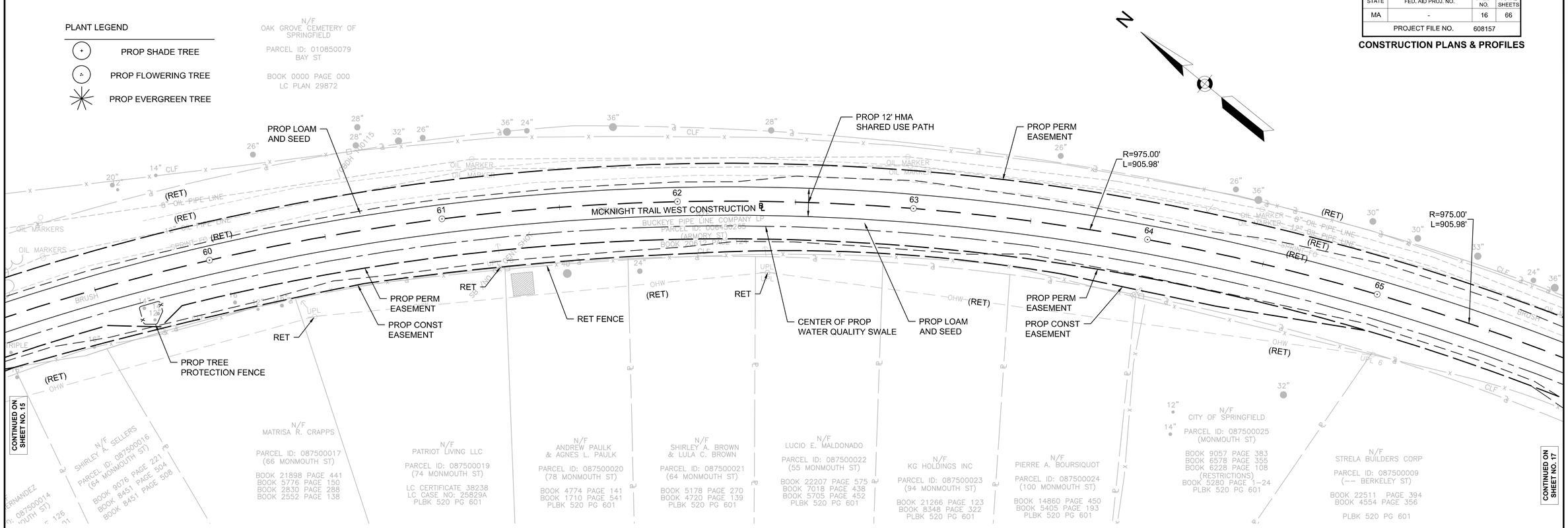
SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	16	66
PROJECT FILE NO.	608157		

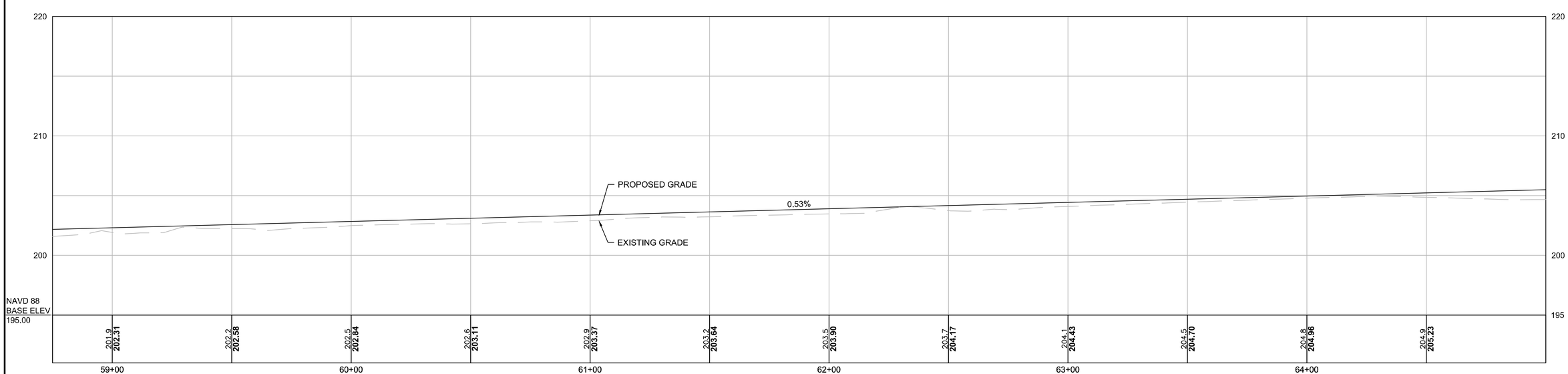
CONSTRUCTION PLANS & PROFILES

PLANT LEGEND

- PROP SHADE TREE
- PROP FLOWERING TREE
- PROP EVERGREEN TREE



HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET



MASSDOT_R4.3_V2018.DWT Plotted on 6-Mar-2019 3:10 PM

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	17	66
PROJECT FILE NO.	608157		

CONSTRUCTION PLANS & PROFILES

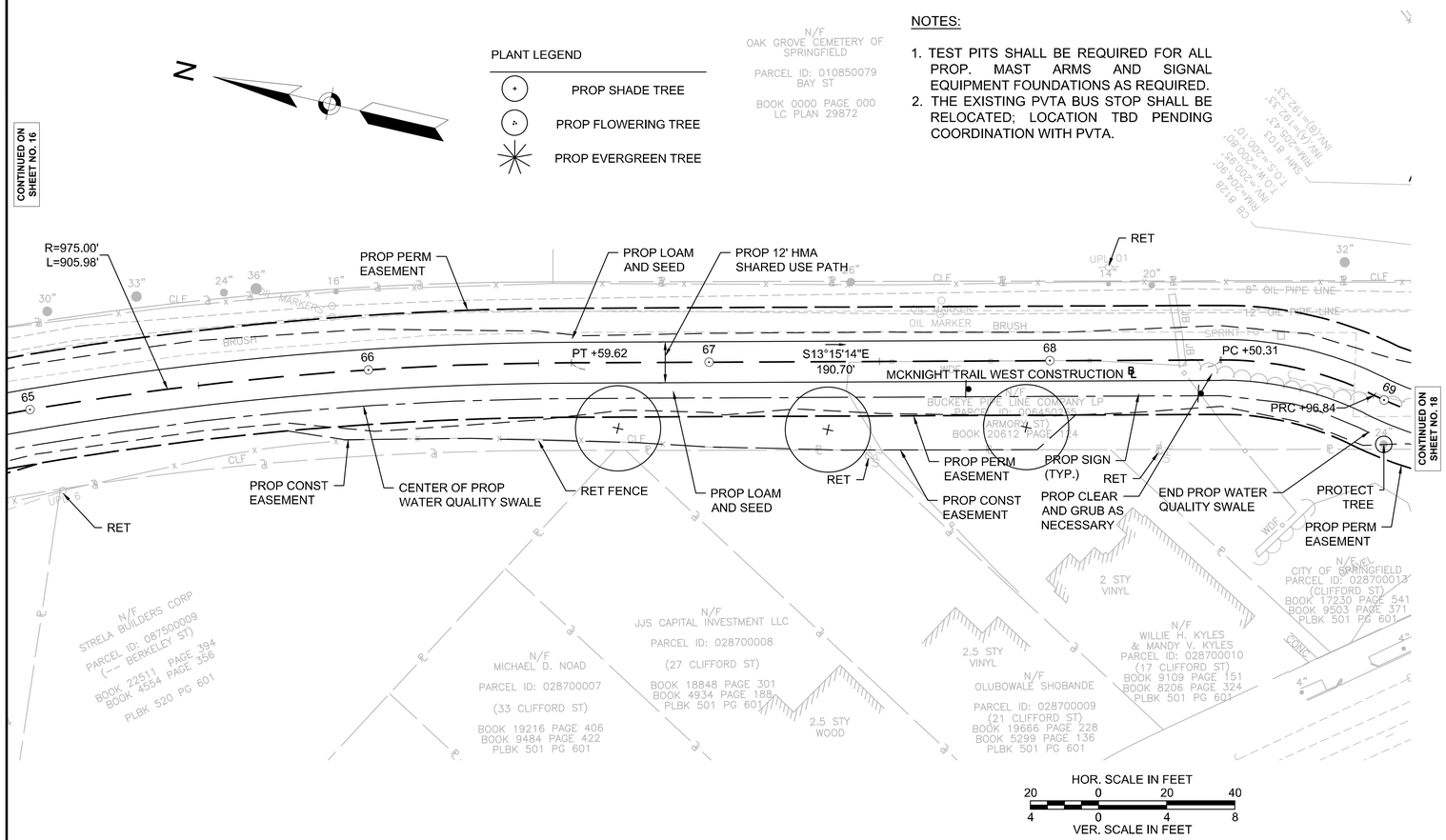
HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
NONE	SEE SHEET 42	NONE	NONE

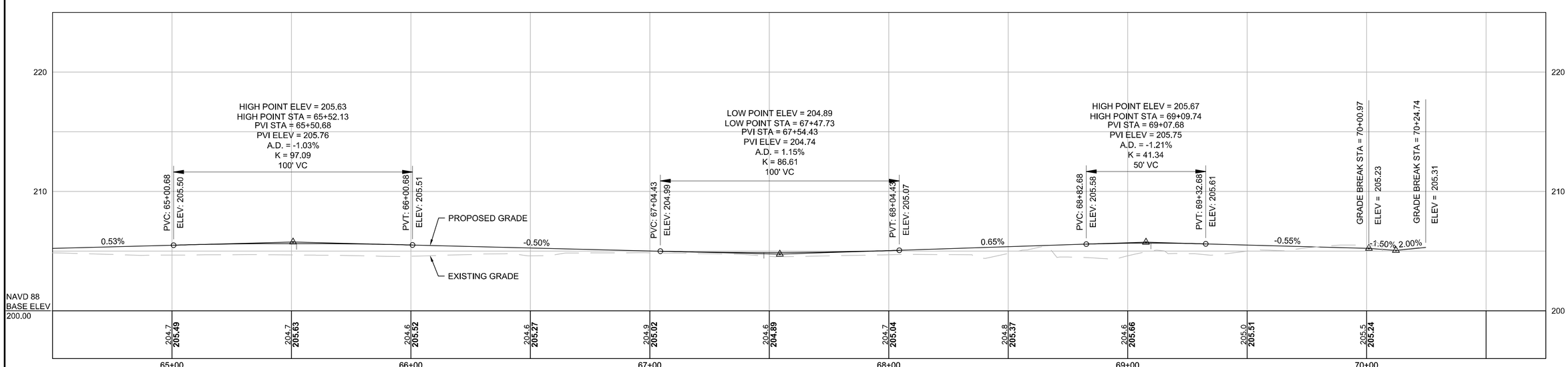
PLANT LEGEND

- PROP SHADE TREE
- PROP FLOWERING TREE
- PROP EVERGREEN TREE

NOTES:

1. TEST PITS SHALL BE REQUIRED FOR ALL PROP. MAST ARMS AND SIGNAL EQUIPMENT FOUNDATIONS AS REQUIRED.
2. THE EXISTING PVTA BUS STOP SHALL BE RELOCATED; LOCATION TBD PENDING COORDINATION WITH PVTA.





MASSDOT_R4.3_V2018.DWT Plotted on 6-Mar-2019 3:10 PM

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE BELOW

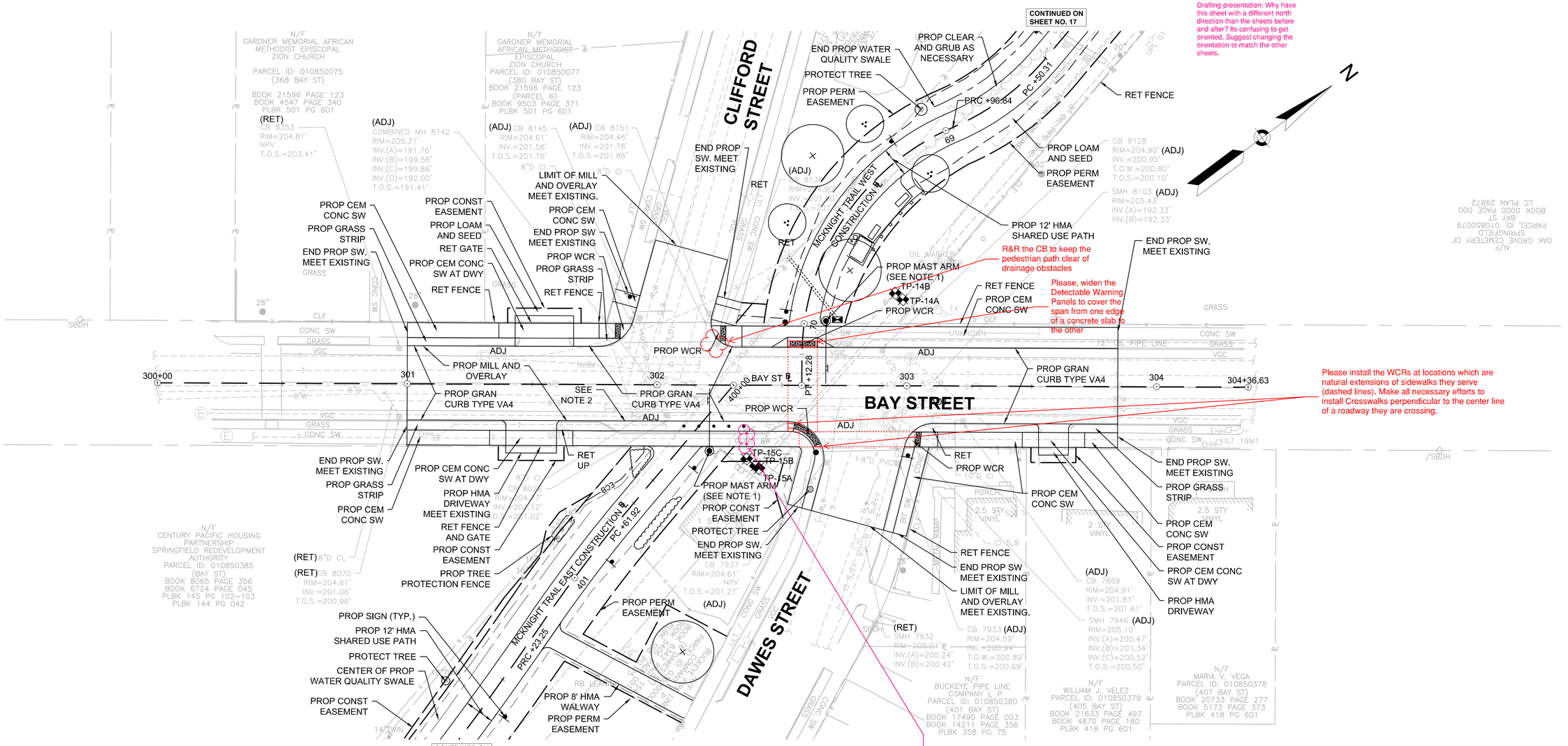
PLANT LEGEND

- PROP SHADE TREE
- PROP FLOWERING TREE
- PROP EVERGREEN TREE

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	18	66
PROJECT FILE NO.	608157		

CONSTRUCTION PLANS & PROFILES



NOTES:

1. TEST PITS SHALL BE REQUIRED FOR ALL PROP. MAST ARMS AND SIGNAL EQUIPMENT FOUNDATIONS AS REQUIRED.
2. THE EXISTING PVTA BUS STOP SHALL BE RELOCATED; LOCATION TBD PENDING COORDINATION WITH PVTA.

MASSDOT_PLAN_SHEET_11X17.DWG Plotted on 6-Mar-2019 3:10 PM

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

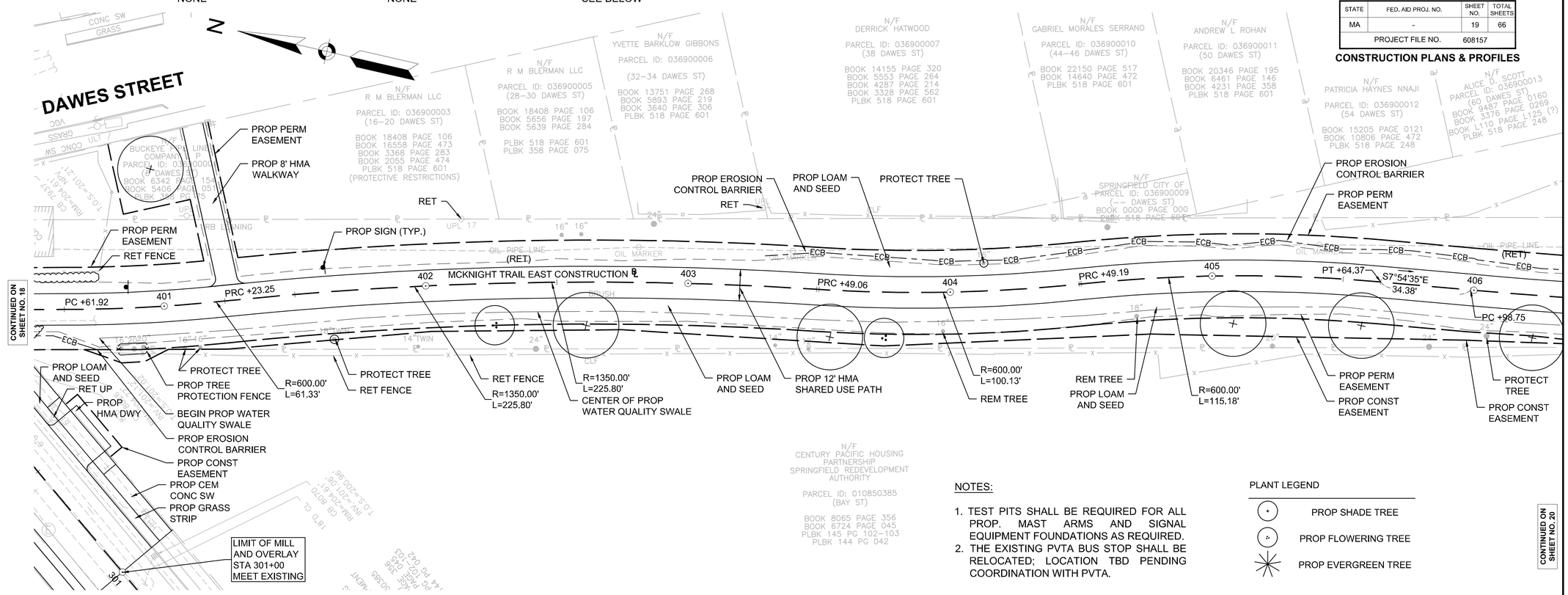
DRAINAGE DETAILS

SEE BELOW

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	19	66
PROJECT FILE NO.	608157		

CONSTRUCTION PLANS & PROFILES



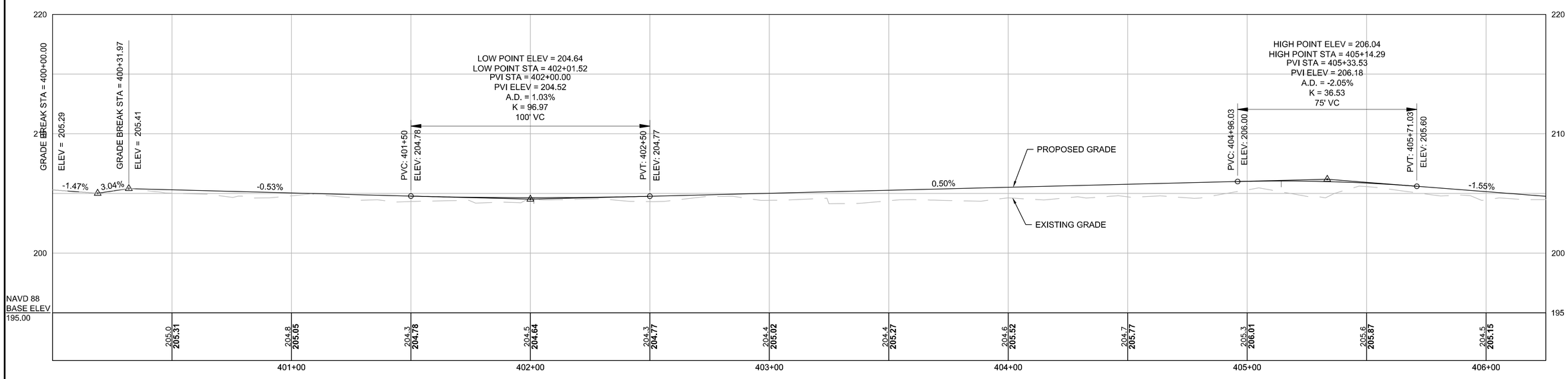
NOTES:

1. TEST PITS SHALL BE REQUIRED FOR ALL PROP. MAST ARMS AND SIGNAL EQUIPMENT FOUNDATIONS AS REQUIRED.
2. THE EXISTING PVTA BUS STOP SHALL BE RELOCATED; LOCATION TBD PENDING COORDINATION WITH PVTA.

PLANT LEGEND

- PROP SHADE TREE
- PROP FLOWERING TREE
- PROP EVERGREEN TREE

HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET



MASSDOT_R4.3_V2018.DWT Plotted on 6-Mar-2019 3:10 PM

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

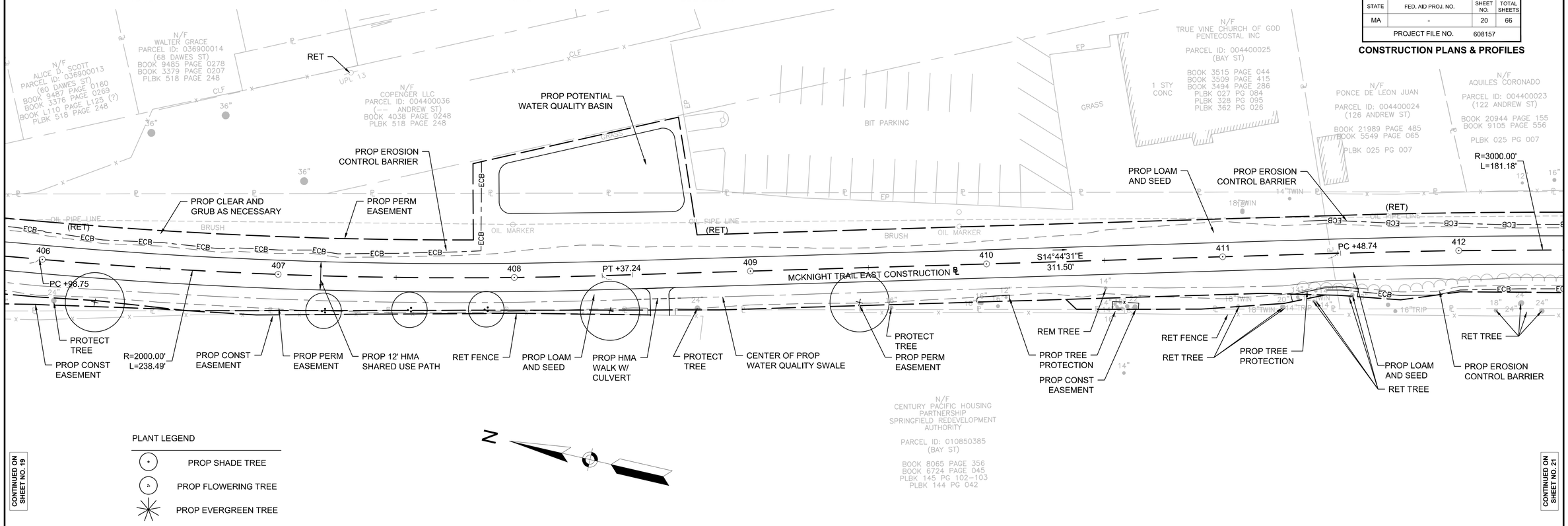
DRAINAGE DETAILS

SEE BELOW

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	20	66
PROJECT FILE NO.	608157		

CONSTRUCTION PLANS & PROFILES



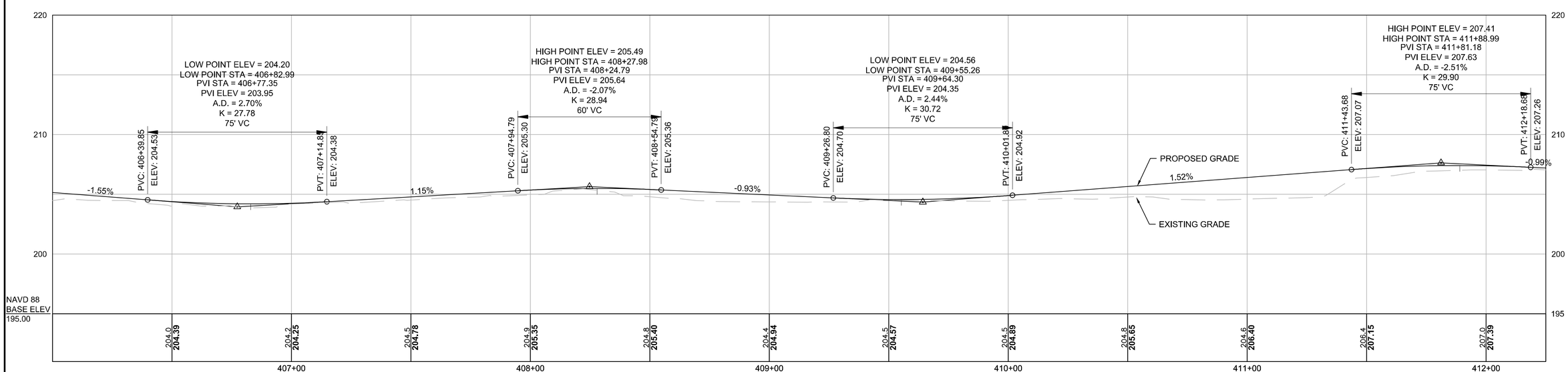
PLANT LEGEND

- PROP SHADE TREE
- PROP FLOWERING TREE
- PROP EVERGREEN TREE

CONTINUED ON SHEET NO. 19

CONTINUED ON SHEET NO. 21

HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET



MASSDOT_R4.3_V2018.DWT Plotted on 6-Mar-2019 3:10 PM

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

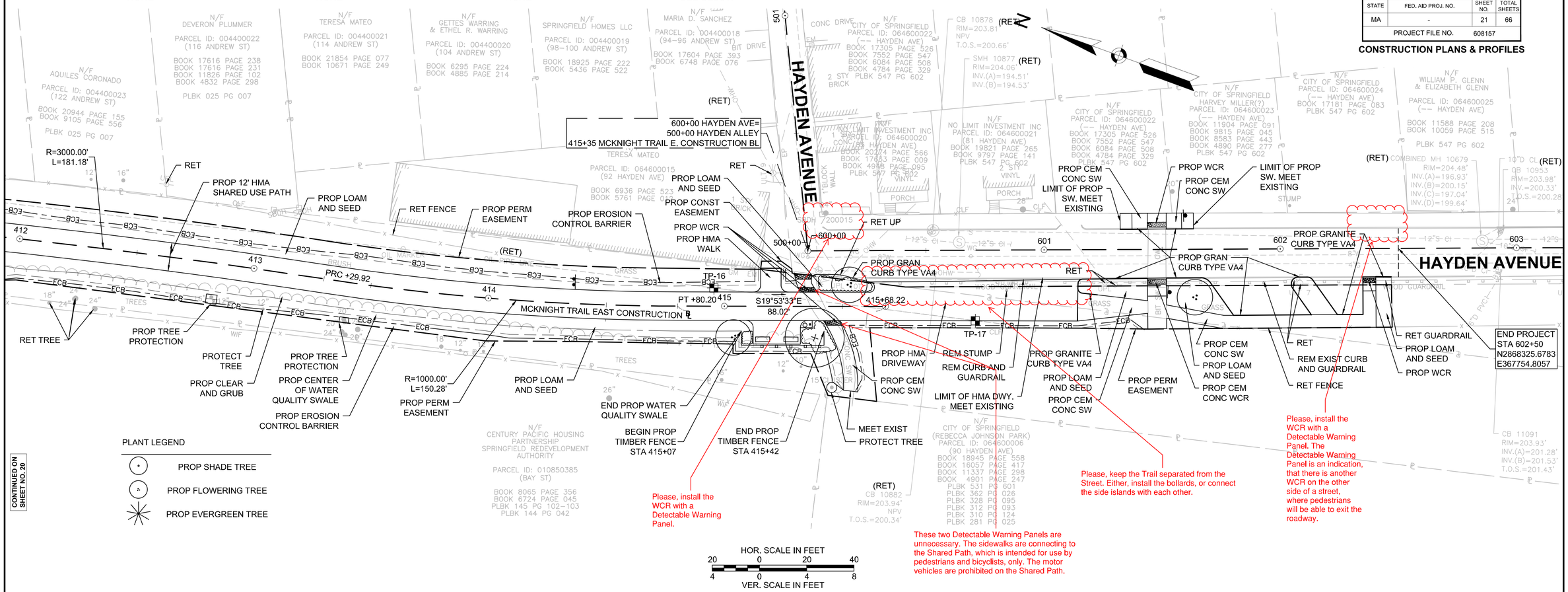
DRAINAGE DETAILS

SEE BELOW

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	21	66
PROJECT FILE NO.	608157		

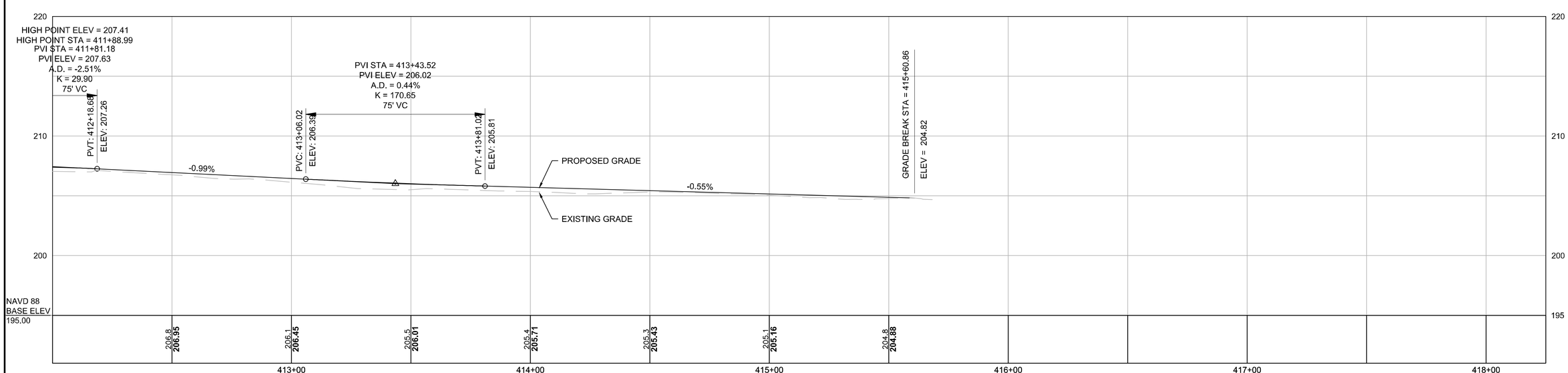
CONSTRUCTION PLANS & PROFILES



PLANT LEGEND

- PROP SHADE TREE
- PROP FLOWERING TREE
- PROP EVERGREEN TREE

CONTINUED ON SHEET NO. 20

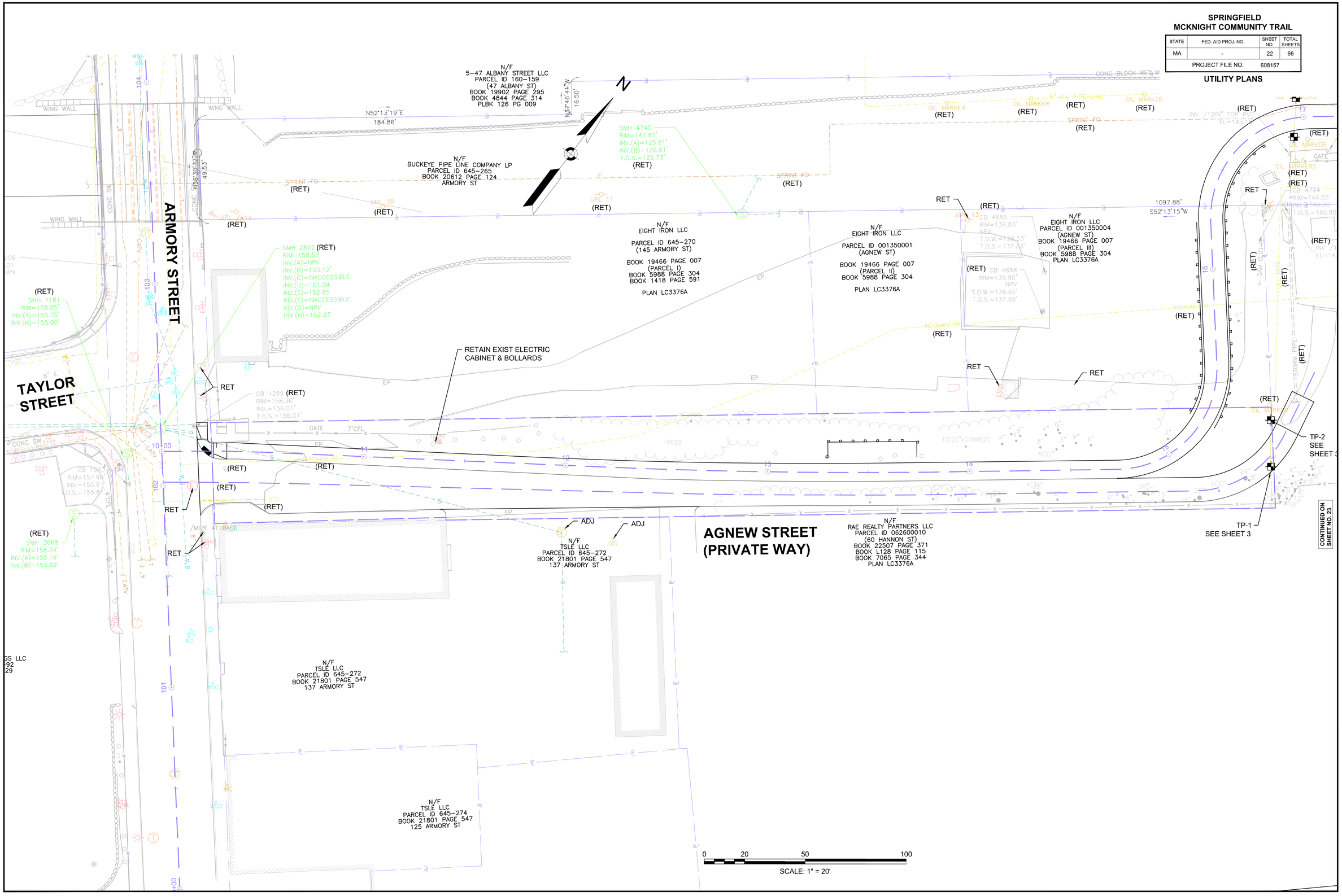


MASSDOT_R4.3_V2018.DWT Plotted on 6-Mar-2019 3:10 PM

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	22	66
PROJECT FILE NO.	608157		

UTILITY PLANS



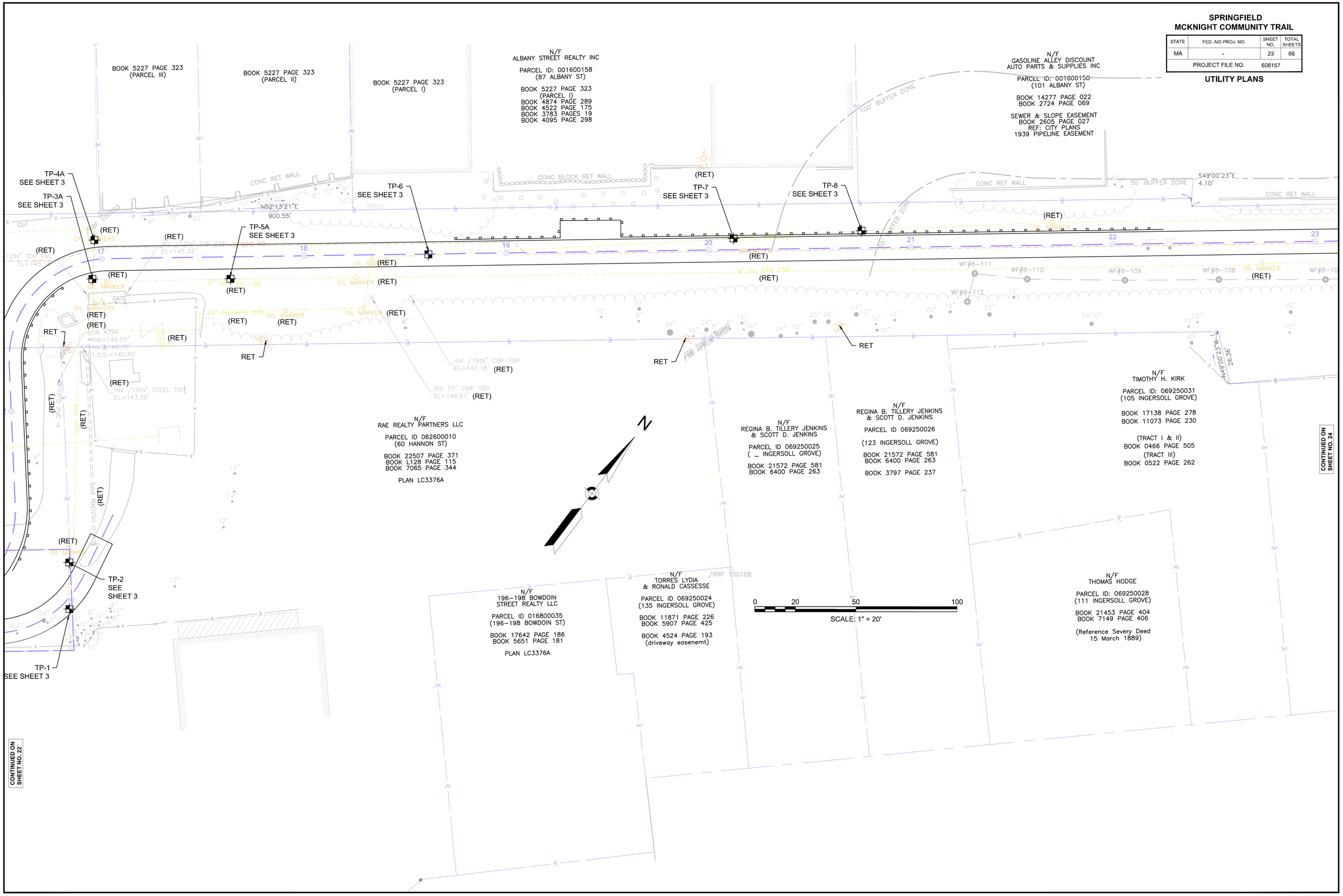
Plotted on 6-Mar-2019 3:10 PM

MASSDOT_R4.3_V2018.DWT

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	23	66
PROJECT FILE NO.	608157		

UTILITY PLANS

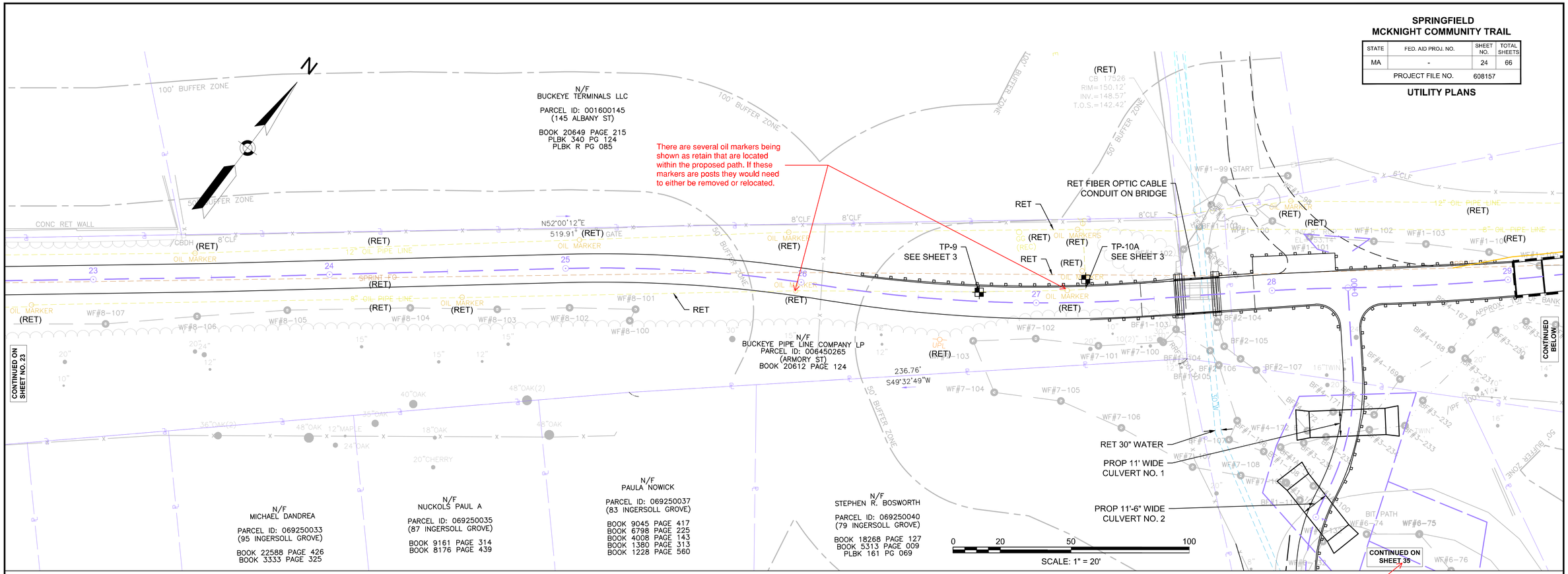


MASSDOT_R4.3_V2018.DWT Plotted on 6-Mar-2019 3:10 PM

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	24	66
PROJECT FILE NO.	608157		

UTILITY PLANS

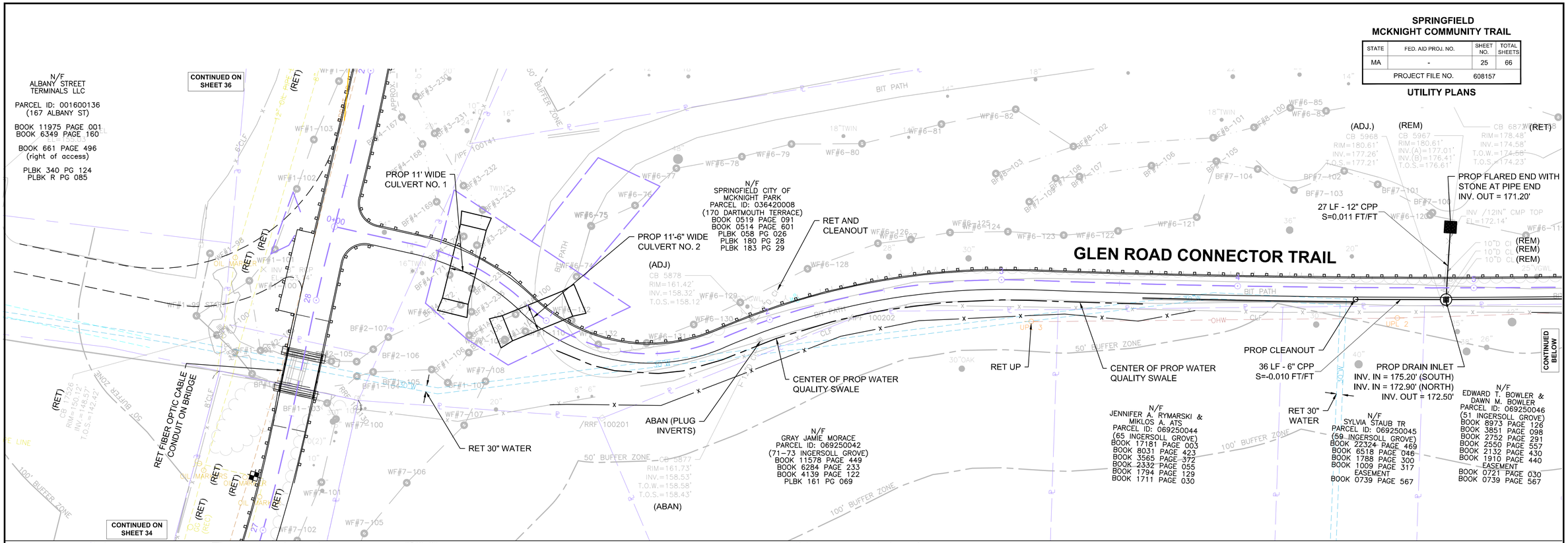


MASSDOT_R4.3_V2018.DWT Plotted on 6-Mar-2019 3:10 PM

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	25	66
PROJECT FILE NO.	608157		

UTILITY PLANS



MASSDOT_R4.3_V2018.DWT Plotted on 6-Mar-2019 3:10 PM

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	26	66
PROJECT FILE NO.	608157		

UTILITY PLANS

Plotted on 6-Mar-2019 3:10 PM

MASSDOT_R4.3_V2018.DWT

N/F
F L ROBERTS
COMPANY INCORP.
PARCEL ID: 001600115
(275 ALBANY ST)
BOOK 4153 PAGE 387
BOOK 3654 PAGE 511
BOOK 2248 PAGE 418

BOOK 1274 PAGE 117
BOOK 1776 PG 377
PLBK 007 PG 013
PLBK 008 PG 042
PLBK 011 PG 110
PLBK 159 PG 050
REFERENCE EASEMENTS TO
CITY OF SPRINGFIELD
DB 1393 PG 586–588

OWNER UNKNOWN

N/F
F L ROBERTS
COMPANY INCORP.
PARCEL ID: 001600115
(275 ALBANY ST)
BOOK 3654 PAGE 511
BOOK 2248 PAGE 418
BOOK 1274 PAGE 117
BOOK 1776 PG 377

PLBK 007 PG 013
PLBK 008 PG 042
PLBK 011 PG 110
REFERENCE EASEMENTS TO
CITY OF SPRINGFIELD
DB 1393 PG 586–588

Please change to Sheet 24

CONTINUED ON SHEET NO. 25

CONTINUED BELOW

0 20 50 100
SCALE: 1" = 20'

N/F
BUCKEYE PIPE LINE COMPANY LP
PARCEL ID: 006450265
(ARMORY ST)
BOOK 20612 PAGE 124

N/F
KENNETH R. BREAULT
& DEBORAH W. BREAULT
PARCEL ID: 032500012
(28 CORNELL ST)
(NS CORNELL ST)
(BOOK 21224 PAGE 369)
DEED PARCEL II
BOOK 18988 PAGE 001
BOOK 12306 PAGE 555
BOOK 5220 PAGE 210
BOOK 4135 PAGE 307
BOOK 3003 PAGE 579
BOOK 2303 PAGE 132
BOOK 2233 PAGE 224
BOOK 2286 PAGE 139
BOOK 0770 PAGE 492
BOOK 0770 PAGE 166
BOOK 0751 PAGE 117
BOOK 0758 PAGE 428
BOOK 0752 PAGE 557

N/F
KENNETH R. BREAULT
& DEBORAH W. BREAULT
PARCEL ID: 032500013
(34 CORNELL ST)
(BOOK 21224 PAGE 369)
DEED PARCEL I
BOOK 4907 PAGE 260
BOOK 4676 PAGE 376
BOOK 4907 PAGE 260
BOOK 4353 PAGE 072
BOOK 3675 PAGE 592
BOOK 3123 PAGE 369
BOOK 2770 PAGE 273
BOOK 1428 PAGE 206
BOOK 0536 PAGE 412

(BOOK 21224 PAGE 369)
DEED PARCEL I

N/F
EUGENIU BANARU
& NATALIA BANARU
PARCEL ID: 032500015
(42 CORNELL ST)
BOOK 18294 PAGE 128
BOOK 4989 PAGE 329
BOOK 4794 PAGE 086
BOOK 4399 PAGE 130
BOOK 4118 PAGE 120
BOOK 4103 PAGE 273
BOOK 3540 PAGE 428
BOOK 3521 PAGE 368
BOOK 3430 PAGE 211
BOOK 3089 PAGE 531
BOOK 2677 PAGE 193
BOOK 2625 PAGE 038
BOOK 2454 PAGE 343

N/F
LEONARD JAMES
JASKIEWICZ
PARCEL ID: 032500017
(52 CORNELL ST)
BOOK 19781 PAGE 311
BOOK 18183 PAGE 505
BOOK 5916 PAGE 503
BOOK 4552 PAGE 012
BOOK 4407 PAGE 243–245

N/F
STEPHEN NEWELL
& JARED NEWELL
PARCEL ID: 032500019
(64 CORNELL ST)
BOOK 20542 PAGE 082
BOOK 7736 PAGE 477
BOOK 7538 PAGE 245
BOOK 1669 PAGE 117
BOOK 0642 PAGE 508

N/F
CATHERINE BASS
PARCEL ID: 032500021
(70 CORNELL ST)
BOOK 2292 PAGE 432
BOOK 2980 PAGE 340
BOOK 2270 PAGE 069
BOOK 0648 PAGE 033

N/F
SIERVO R. JIMENEZ
PARCEL ID: 032500023
(80 CORNELL ST)
BOOK 21790 PAGE 467
BOOK 7008 PAGE 329
BOOK 4077 PAGE 020
BOOK 3970 PAGE 086
BOOK 3574 PAGE 596
BOOK 3461 PAGE 281
BOOK 1777 PAGE 248
BOOK 1777 PAGE 249
BOOK 1752 PAGE 140
BOOK 1718 PAGE 384
BOOK 0648 PAGE 033

DEED PARCEL III

N/F
JAD REALTY LLC
PARCEL ID: 001600101
(321 ALBANY ST)
BOOK 21125 PAGE 402
BOOK 15640 PAGE 421

BOOK 15369 PAGE 357
BOOK 6458 PG 374
PLBK 007 PG 013
PLBK 008 PG 042
PLBK 011 PG 110
PLBK 159 PG 050

N/F
ALBANY CASCO LLC
PARCEL ID: 001600099
(349 ALBANY ST)
BOOK 20929 PAGE 077
BOOK 9017 PAGE 0100
BOOK 7819 PAGE 0113
BOOK 6677 PAGE 0043
BOOK 5922 PAGE 0231
BOOK 5779 PAGE 0237
PLBK 0006 PG 085

MICHAEL L. BISCALDI
& DIANE BISCALDI
PARCEL ID: 001600094
(357 ALBANY ST)
BOOK 8536 PAGE 586
BOOK 5097 PAGE 0141
BOOK 1636 PAGE 512–513
PLBK 0006 PG 085

N/F
S L & T REALTY TRUST
PARCEL ID: 001600093
(_ ALBANY ST)
BOOK 0000 PAGE 000
PLBK 0006 PG 085

PROP RELOCATION
OF FIBEROPTIC
CABLE (BY OTHERS)

CONTINUED ABOVE

CONTINUED ON SHEET NO. 27

N/F
BUCKEYE PIPE LINE COMPANY LP
PARCEL ID: 006450265
(ARMORY ST)
BOOK 20612 PAGE 124

RIGHT-OF-WAY
SHOWN ON
PLBK FILE 354-H

N/F
ELIO ALFONSO
& YESSICA M. ALFONSO
PARCEL ID: 032500027
(98 CORNELL ST)
BOOK 13633 PAGE 121
BOOK 12751 PAGE 461

N/F
LUIS C. CRUZ
PARCEL ID: 032500029
(21 CAMPUS PL)
BOOK 21605 PAGE 028
BOOK 21248 PAGE 336
BOOK 16200 PAGE 416
~~BOOK 5087 PAGE 011(?)~~
BOOK 2232 PAGE 023
BOOK 1688 PAGE 472

N/F
ERIC W. WILSON
PARCEL ID: 023100005
(12 CAMPUS PL)
BOOK 5330 PAGE 372
BOOK 4973 PAGE 392
BOOK 4714 PAGE 248
BOOK 1306 PAGE 193
BOOK 1272 PAGE 322
PLBK 218 PG 48

N/F
IVERY DYER &
SARAH DYER
PARCEL ID: 023100006
(8 CAMPUS PL)
BOOK 3603 PAGE 138
BOOK 692 PAGE 253
BOOK 588 PAGE 569
PLBK 218 PG 48

N/F
RONALD PERELL
PARCEL ID: 111700044
(400 ST JAMES AVE)
BOOK 18878 PAGE 559
BOOK 5528 PAGE 344

N/F
AZIZ AHMED
PARCEL ID: 111700048
(412 ST JAMES AVE)
BOOK 18178 PAGE 434
BOOK 6284 PAGE 229
BOOK 5671 PAGE 562–3
BOOK 4889 PAGE 043
BOOK 4676 PAGE 249
BOOK 4588 PAGE 075
BOOK 1731 PAGE 476–7
PLBK 217 PG 036
(1984 tape survey)

N/F
KEDEAN K. HINES

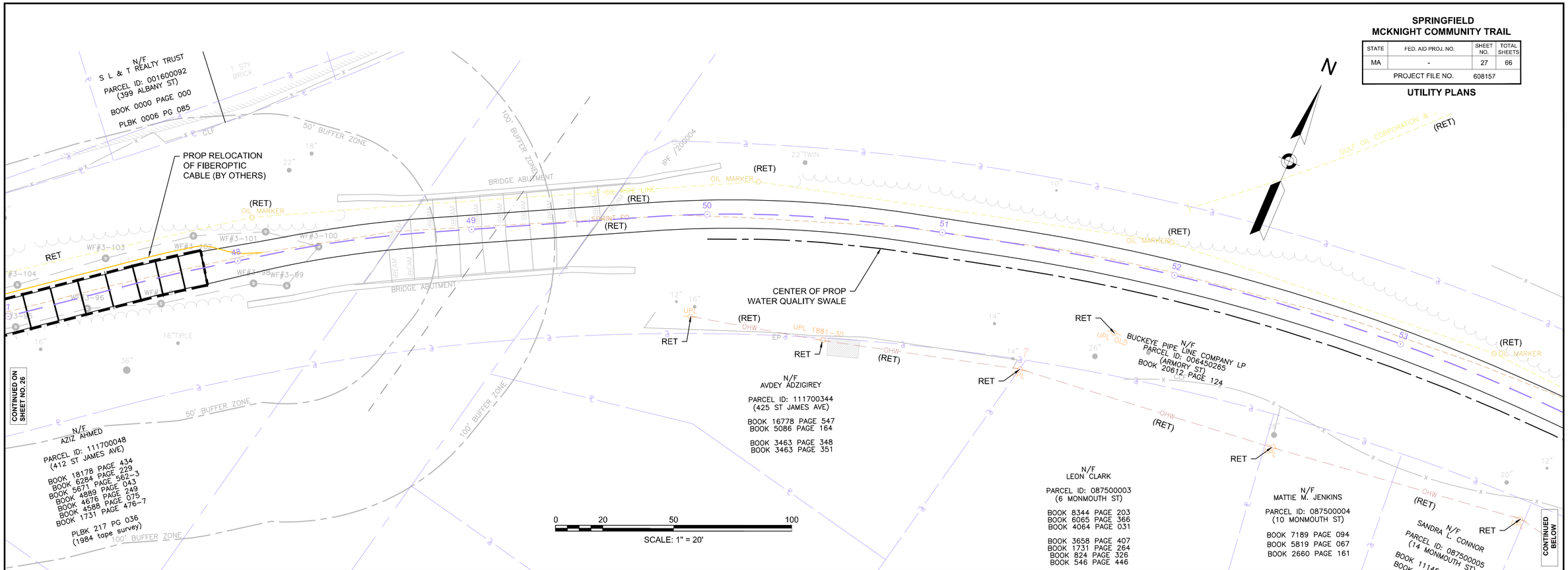
N/F
RICHARD I. HILL

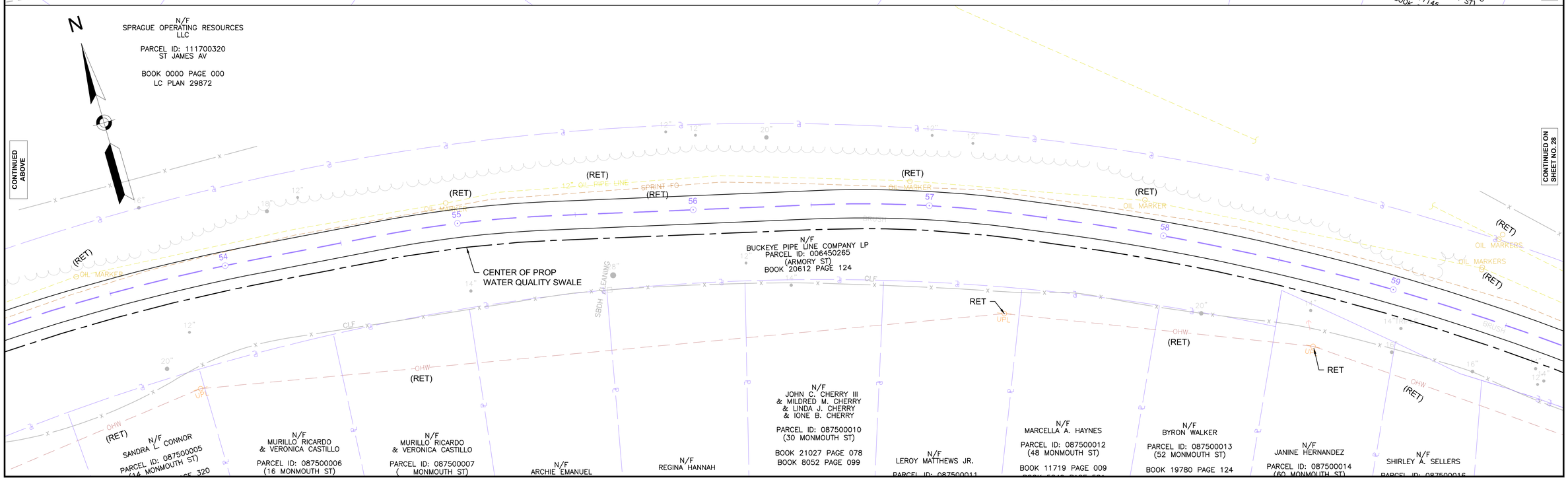
DEED PARCEL II

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	27	66
PROJECT FILE NO.	608157		

UTILITY PLANS



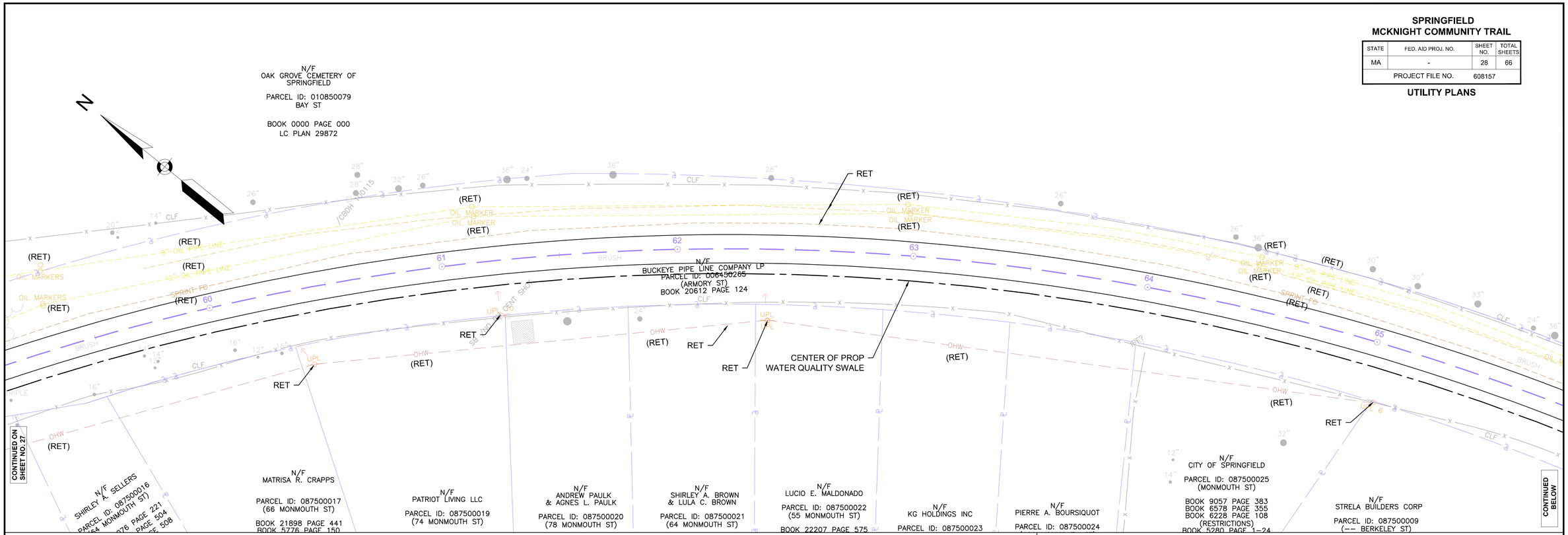


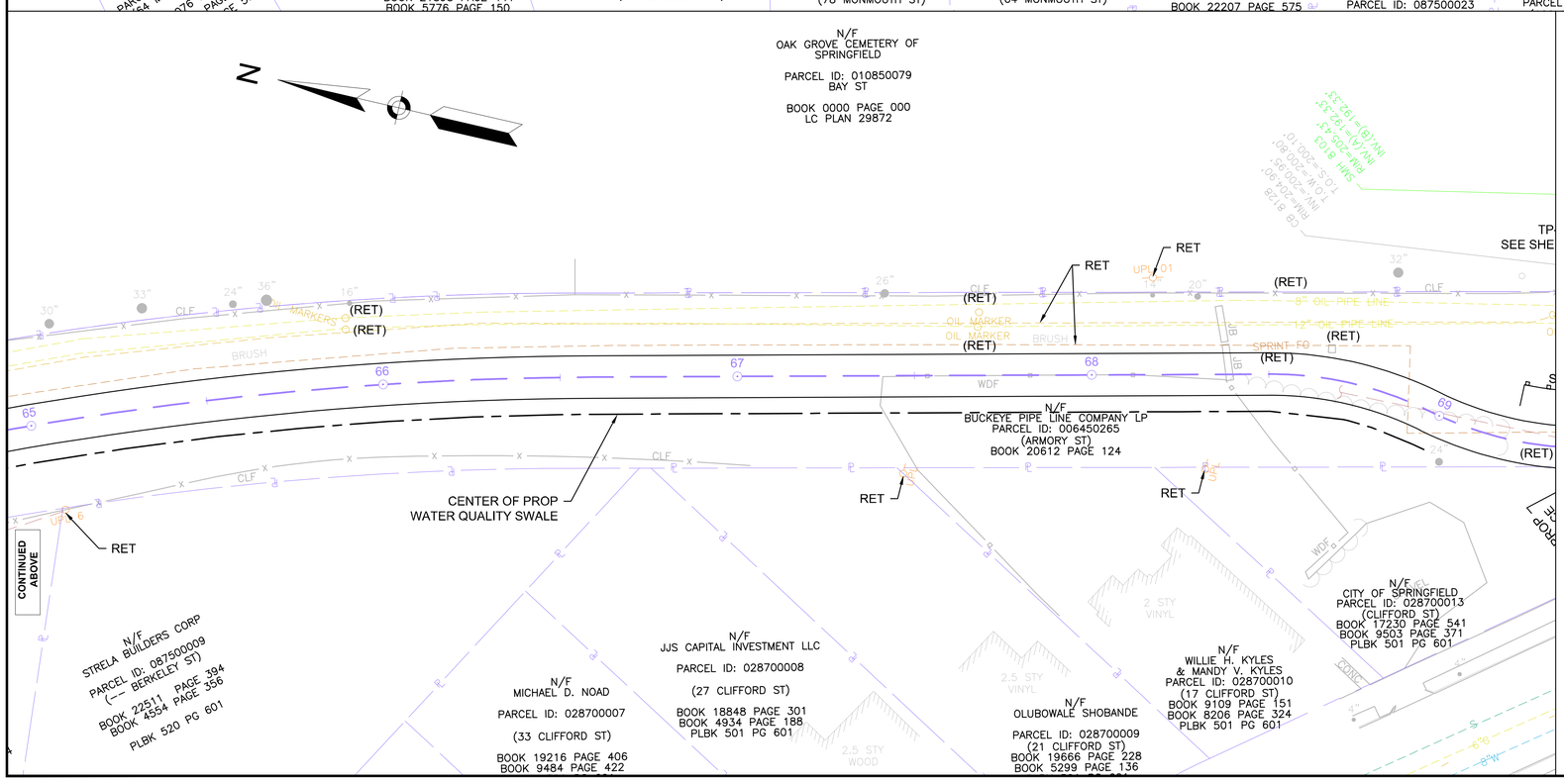
MASSDOT_R4.3_V2018.DWT Plotted on 6-Mar-2019 3:10 PM

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	28	66
PROJECT FILE NO.	608157		

UTILITY PLANS





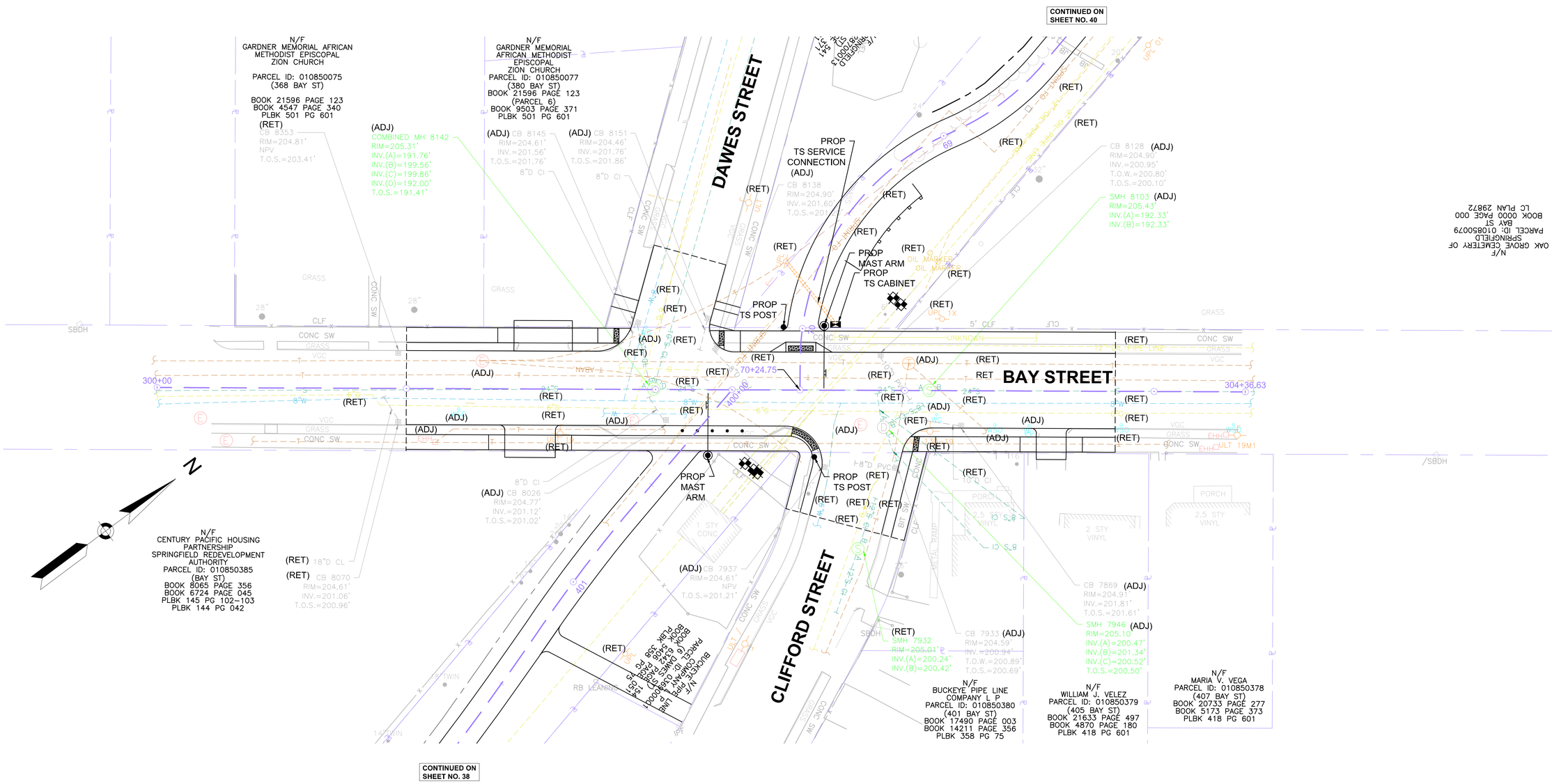
0 20 50 100
SCALE: 1" = 20'

MASSDOT_R4.3_V2018.DWT Plotted on 6-Mar-2019 3:10 PM

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	29	66
PROJECT FILE NO.	608157		

UTILITY PLANS

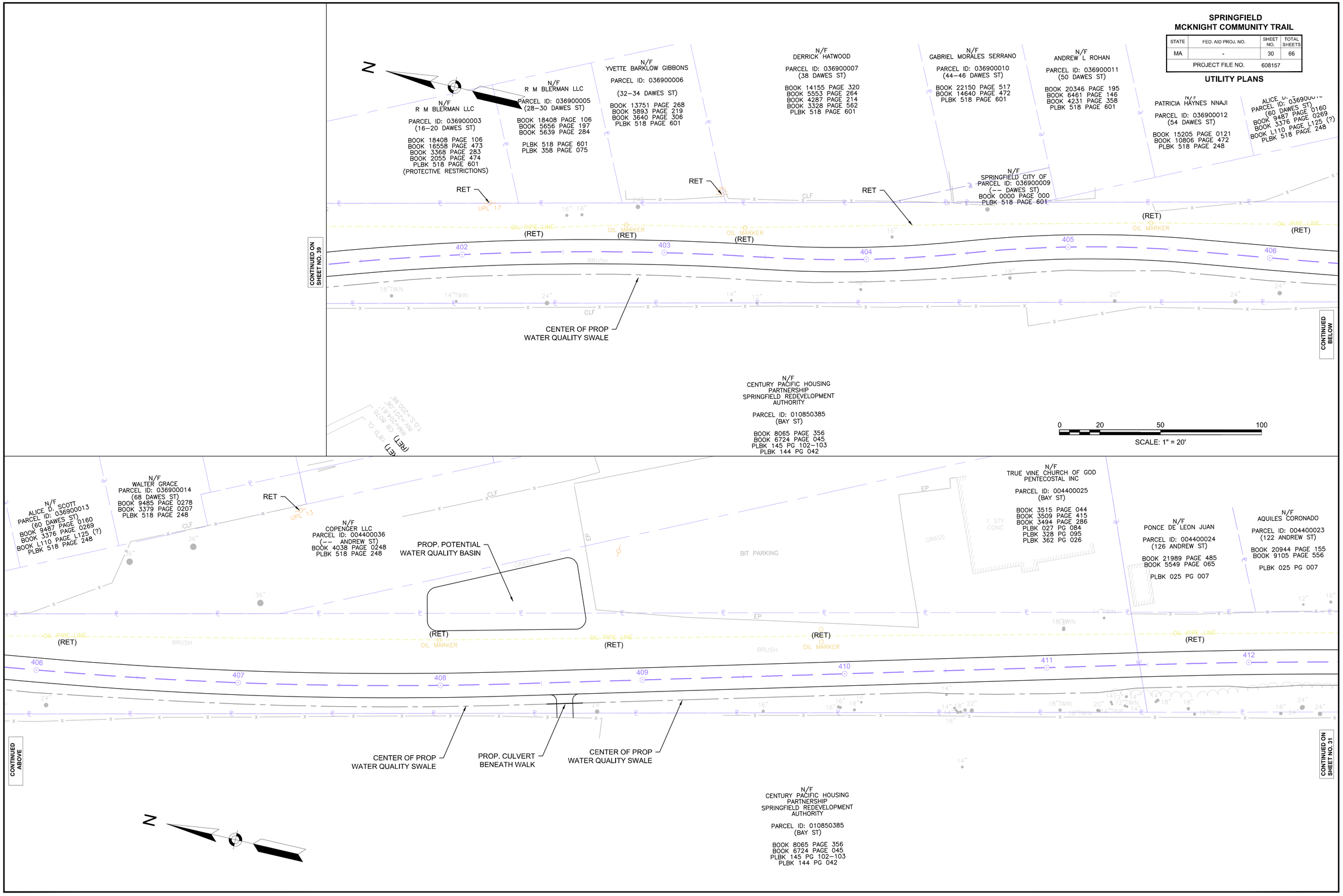


MASSDOT_R4.3_V2018.DWT Plotted on 6-Mar-2019 3:10 PM

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	30	66
PROJECT FILE NO.	608157		

UTILITY PLANS

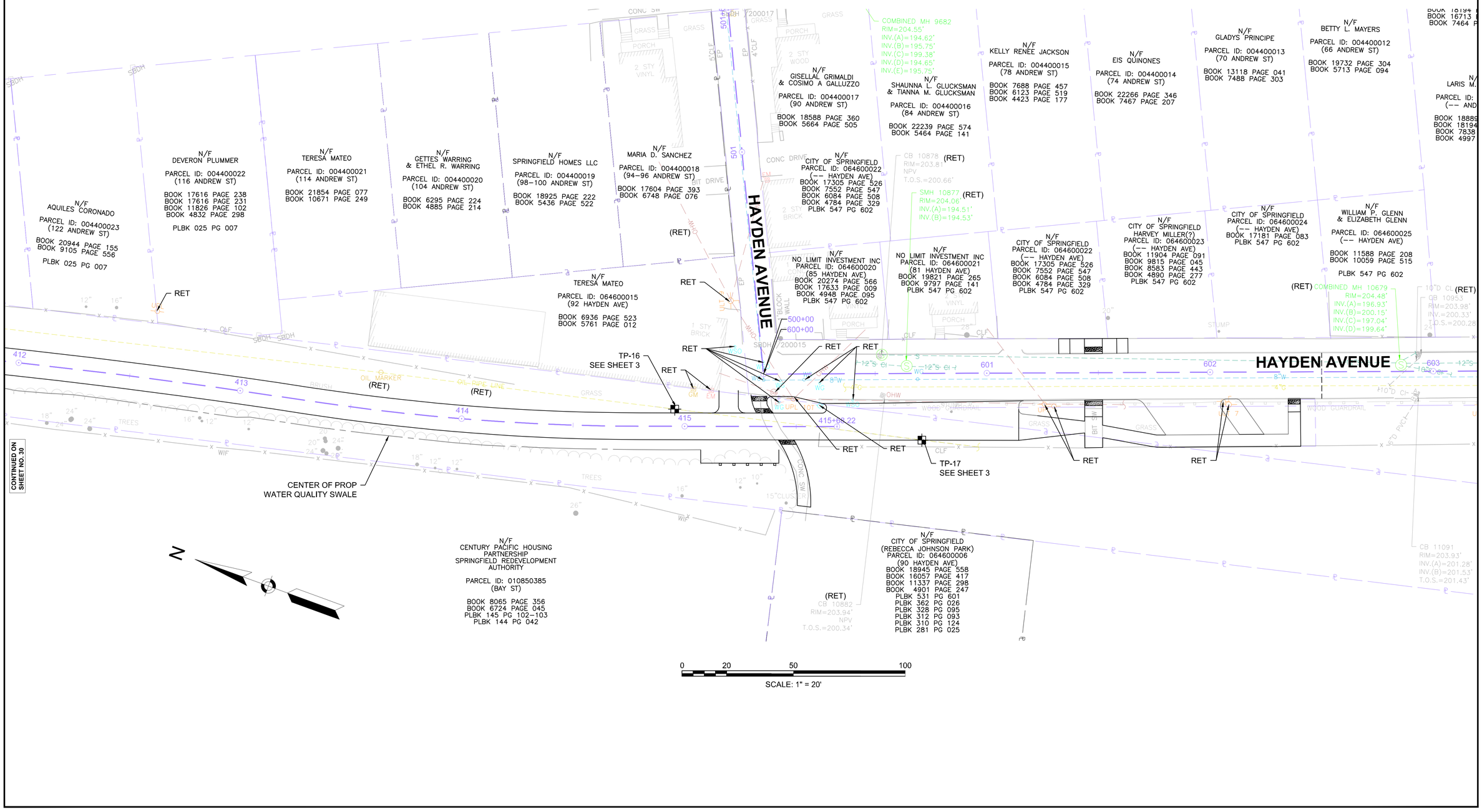


MASSDOT_R4.3_V2018.DWT Plotted on 6-Mar-2019 3:10 PM

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	31	66
PROJECT FILE NO.	608157		

UTILITY PLANS



0 20 50 100

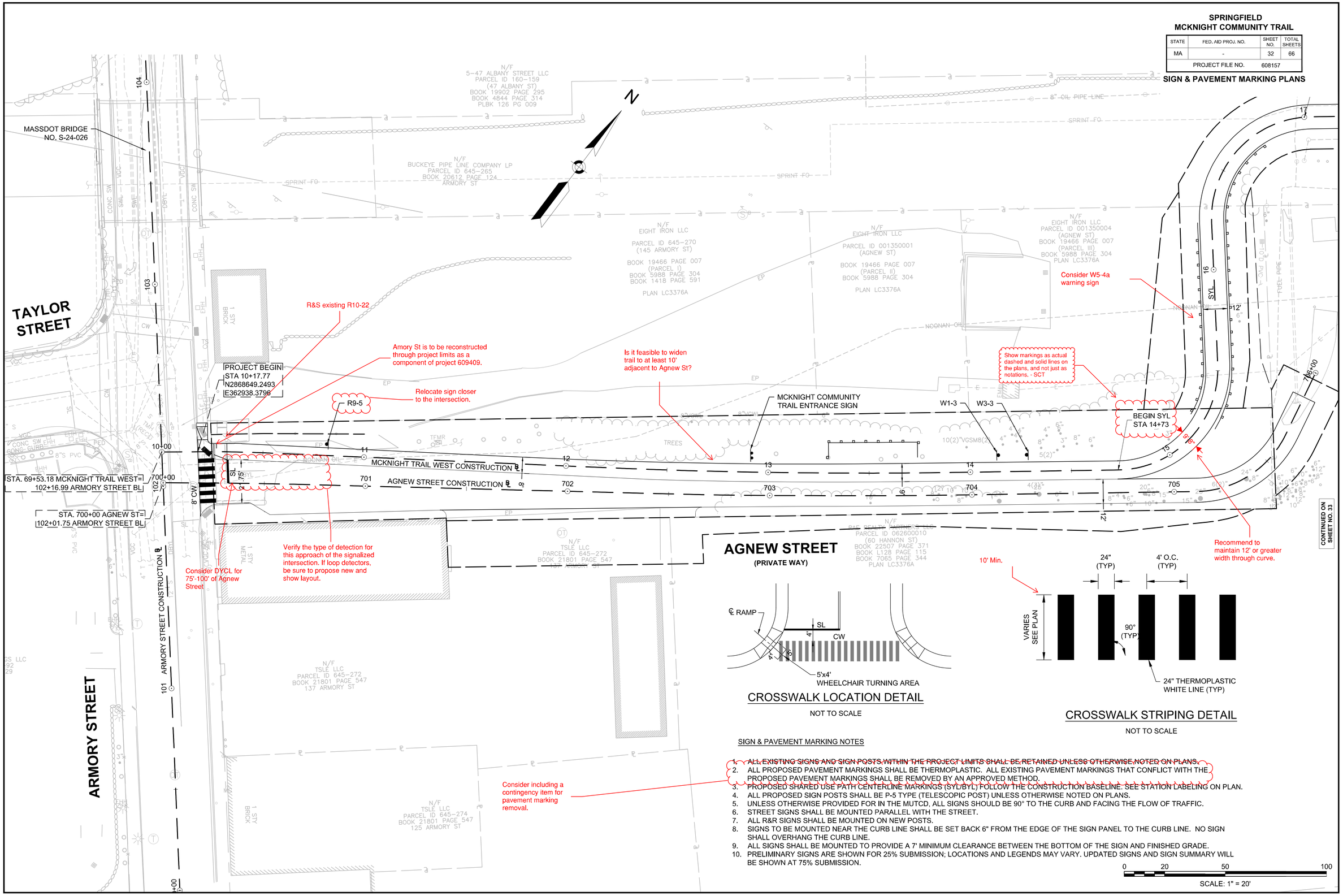
SCALE: 1" = 20'

MASSDOT_R4.3_V2018.DWT Plotted on 6-Mar-2019 3:10 PM

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	32	66
PROJECT FILE NO.	608157		

SIGN & PAVEMENT MARKING PLANS



CROSSWALK LOCATION DETAIL

NOT TO SCALE

CROSSWALK STRIPING DETAIL

NOT TO SCALE

SIGN & PAVEMENT MARKING NOTES

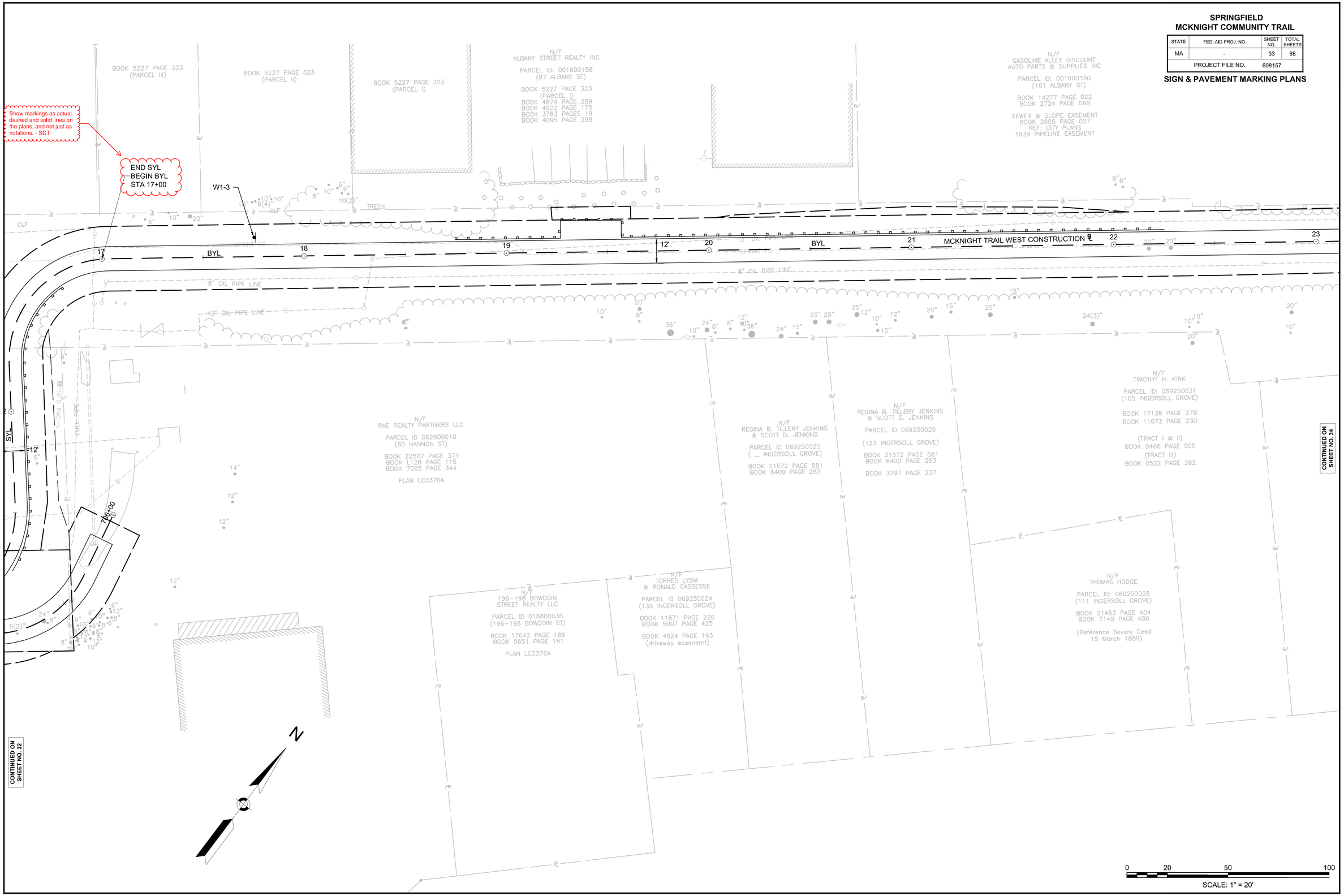
1. ~~ALL EXISTING SIGNS AND SIGN POSTS WITHIN THE PROJECT LIMITS SHALL BE RETAINED UNLESS OTHERWISE NOTED ON PLANS.~~
2. ALL PROPOSED PAVEMENT MARKINGS SHALL BE THERMOPLASTIC. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE PROPOSED PAVEMENT MARKINGS SHALL BE REMOVED BY AN APPROVED METHOD.
3. PROPOSED SHARED USE PATH CENTERLINE MARKINGS (SYL/BYL) FOLLOW THE CONSTRUCTION BASELINE. SEE STATION LABELING ON PLAN.
4. ALL PROPOSED SIGN POSTS SHALL BE P-5 TYPE (TELESCOPIC POST) UNLESS OTHERWISE NOTED ON PLANS.
5. UNLESS OTHERWISE PROVIDED FOR IN THE MUTCD, ALL SIGNS SHOULD BE 90° TO THE CURB AND FACING THE FLOW OF TRAFFIC.
6. STREET SIGNS SHALL BE MOUNTED PARALLEL WITH THE STREET.
7. ALL R&R SIGNS SHALL BE MOUNTED ON NEW POSTS.
8. SIGNS TO BE MOUNTED NEAR THE CURB LINE SHALL BE SET BACK 6" FROM THE EDGE OF THE SIGN PANEL TO THE CURB LINE. NO SIGN SHALL OVERHANG THE CURB LINE.
9. ALL SIGNS SHALL BE MOUNTED TO PROVIDE A 7' MINIMUM CLEARANCE BETWEEN THE BOTTOM OF THE SIGN AND FINISHED GRADE.
10. PRELIMINARY SIGNS ARE SHOWN FOR 25% SUBMISSION; LOCATIONS AND LEGENDS MAY VARY. UPDATED SIGNS AND SIGN SUMMARY WILL BE SHOWN AT 75% SUBMISSION.

MASSDOT_R4.3_V2018.DWT Plotted on 6-Mar-2019 3:10 PM

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	33	66
PROJECT FILE NO.	608157		

SIGN & PAVEMENT MARKING PLANS

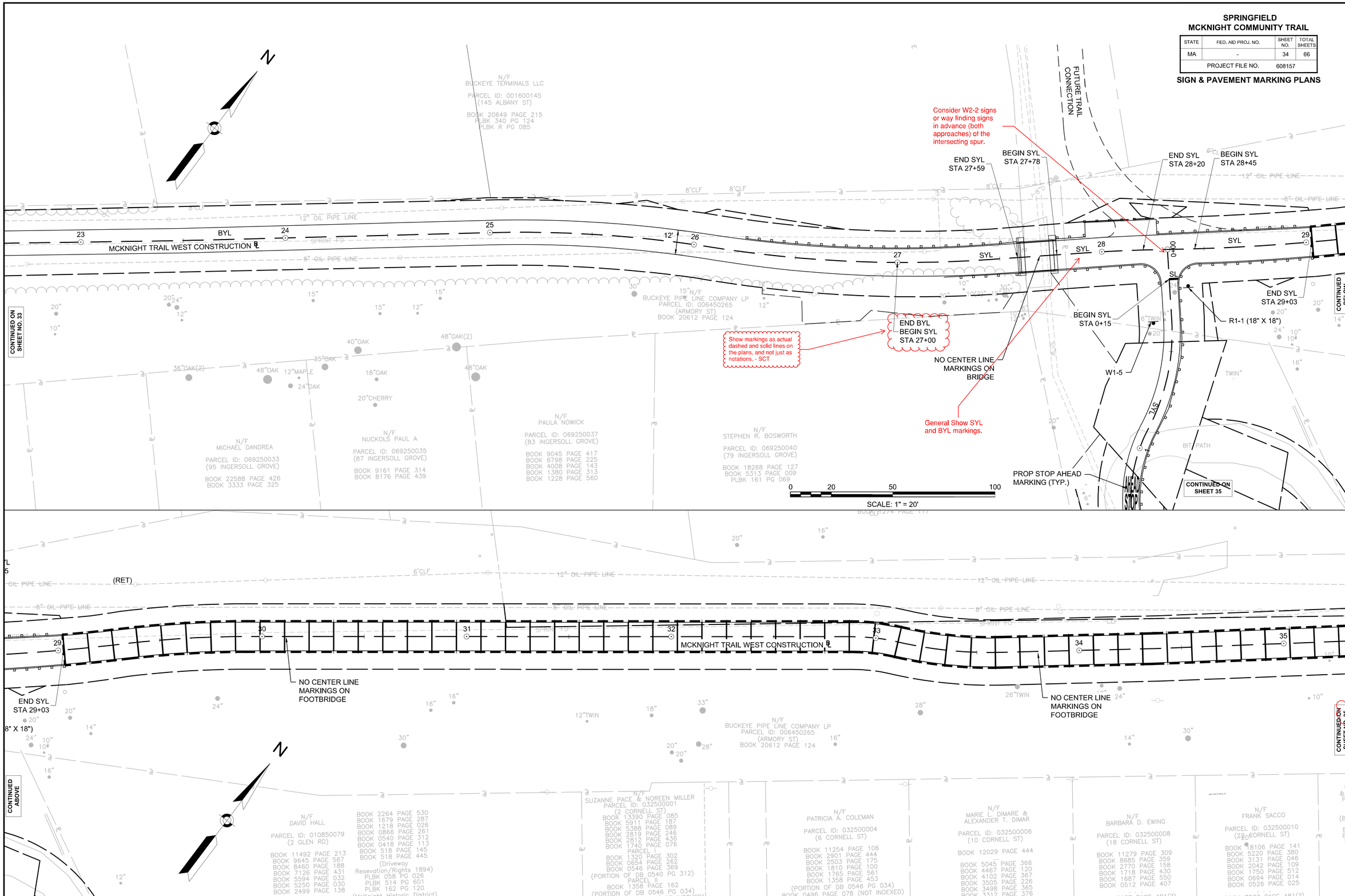


MASSDOT_R4.3_V2018.DWT Plotted on 6-Mar-2019 3:10 PM

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	34	66
PROJECT FILE NO.	608157		

SIGN & PAVEMENT MARKING PLANS

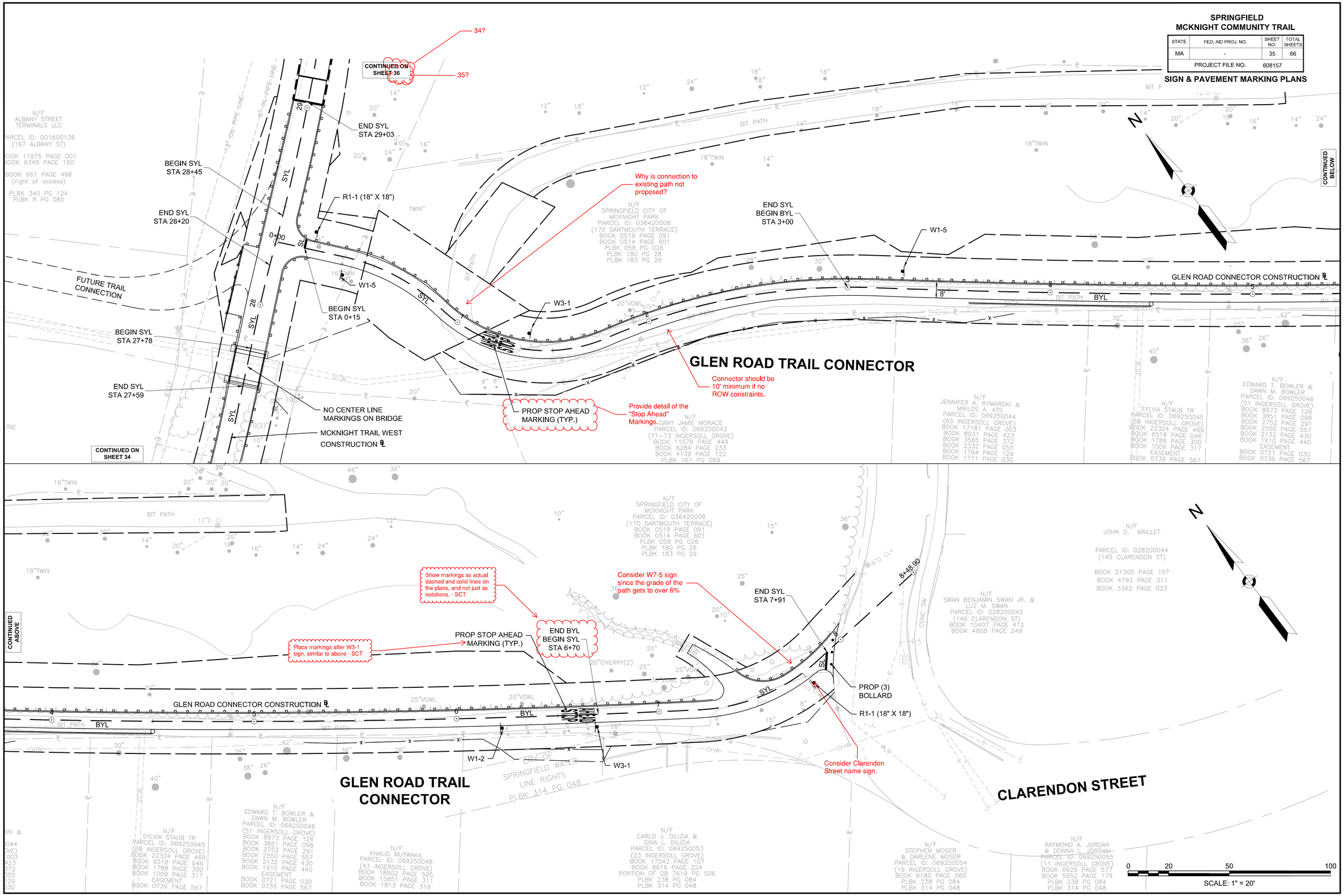


MASSDOT_R4.3_V2018.DWT Plotted on 6-Mar-2019 3:10 PM

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	35	66
PROJECT FILE NO.	608157		

SIGN & PAVEMENT MARKING PLANS



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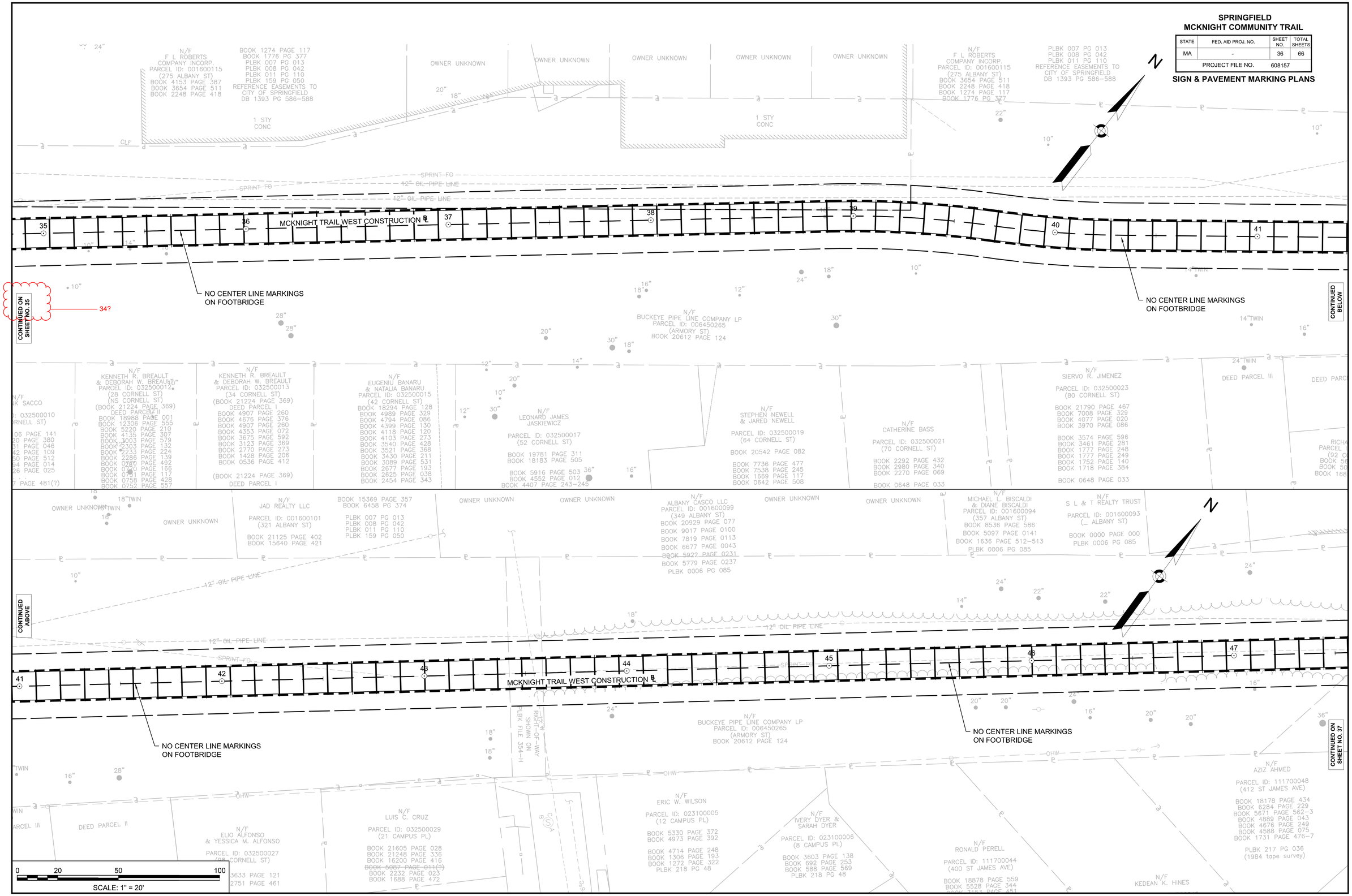
SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	36	66
PROJECT FILE NO.	608157		

SIGN & PAVEMENT MARKING PLANS



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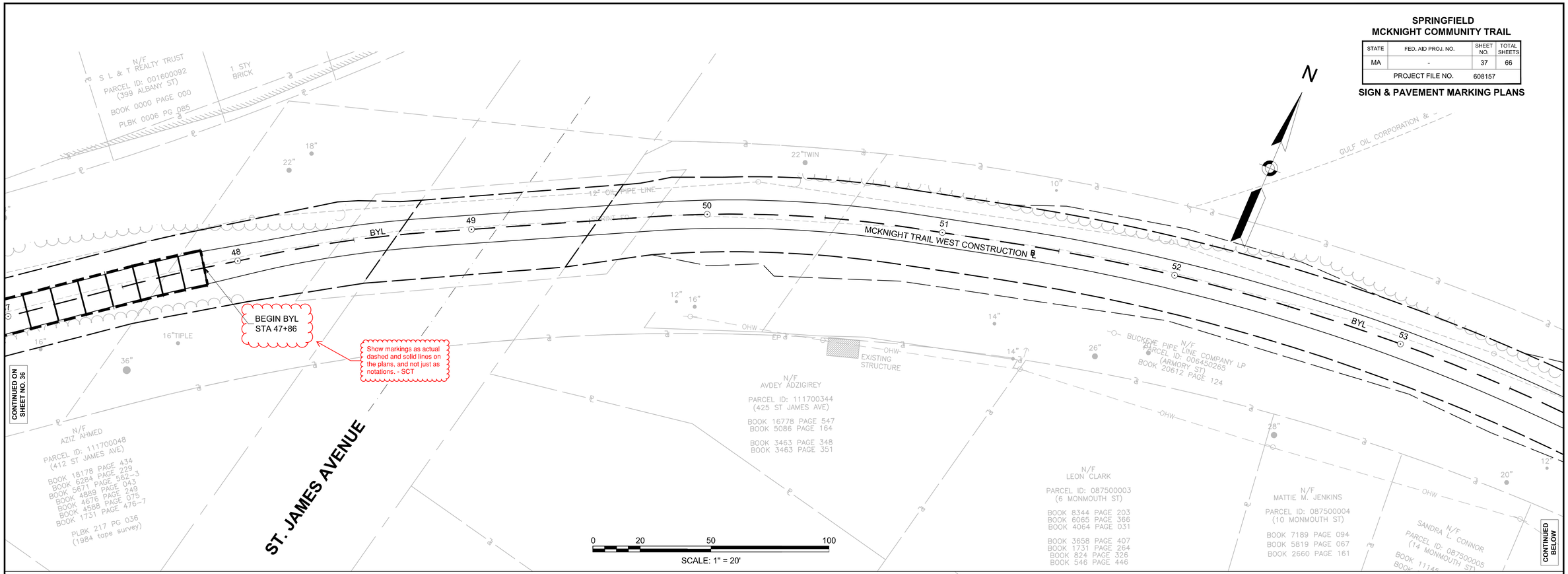
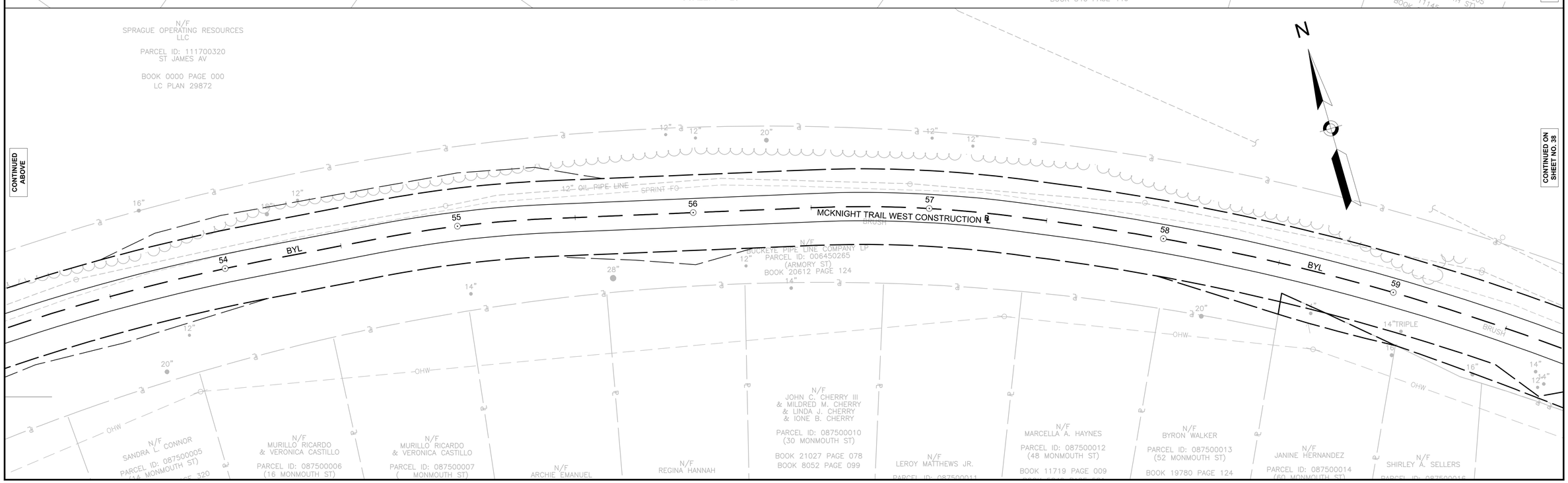
SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	37	66
PROJECT FILE NO.	608157		

SIGN & PAVEMENT MARKING PLANS





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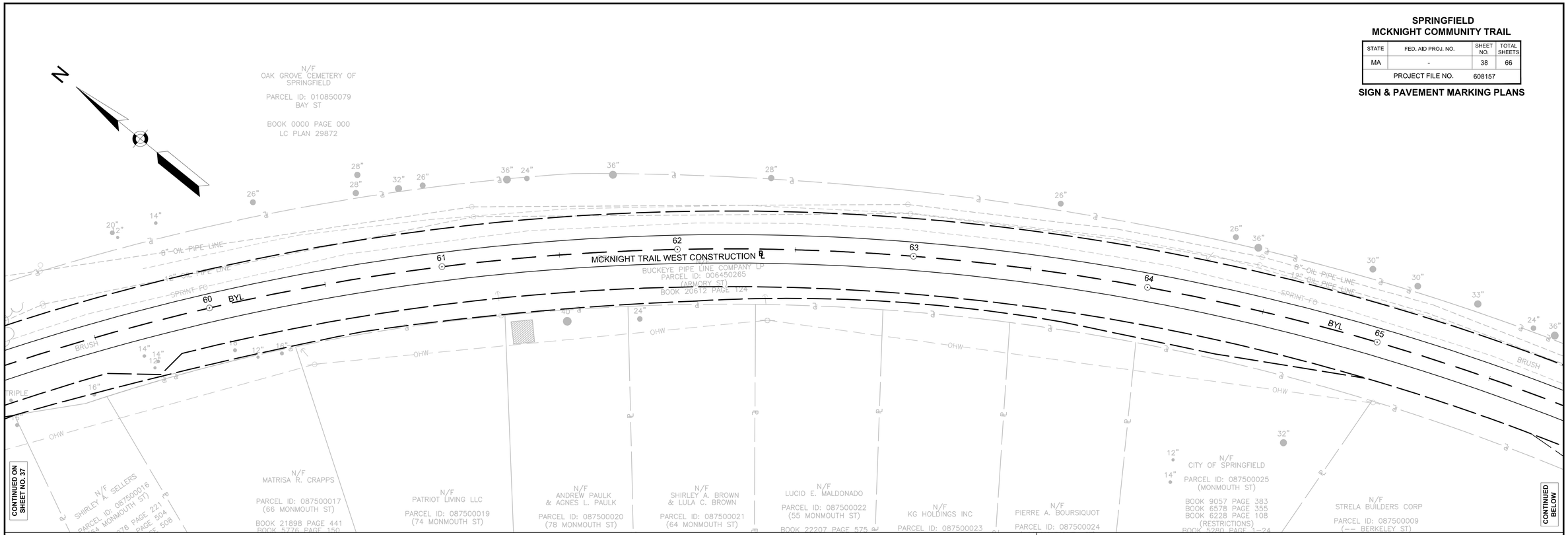
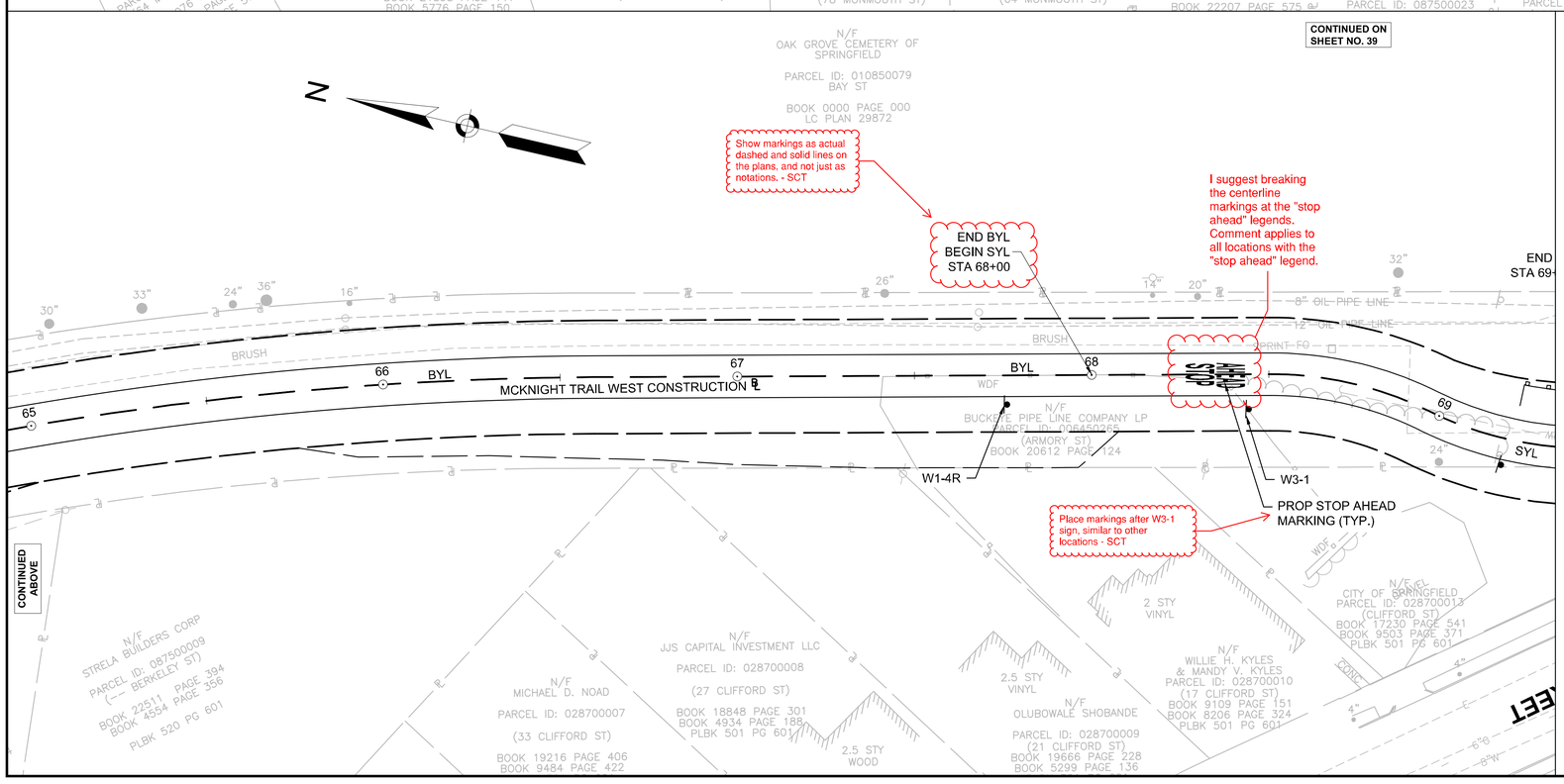
SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	38	66
PROJECT FILE NO.	608157		

SIGN & PAVEMENT MARKING PLANS





0 20 50 100

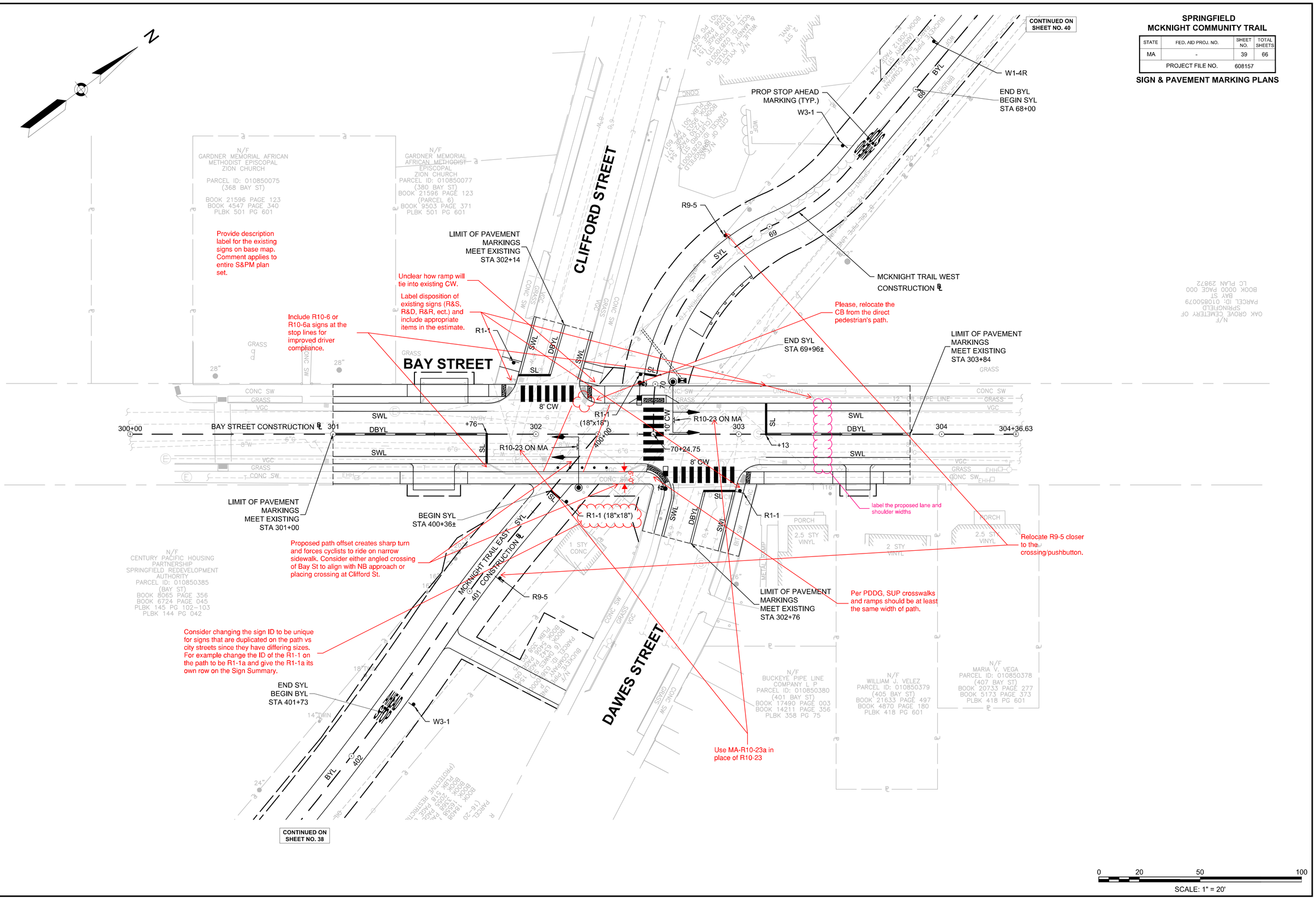
SCALE: 1" = 20'

MASSDOT_R4.3_V2018.DWT Plotted on 6-Mar-2019 3:10 PM

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	39	66
PROJECT FILE NO.	608157		

SIGN & PAVEMENT MARKING PLANS



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SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	40	66
PROJECT FILE NO.	608157		

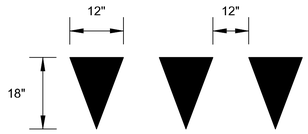
SIGN & PAVEMENT MARKING PLANS

MASSDOT_R4.3_V2018.DWT Plotted on 6-Mar-2019 3:10 PM

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

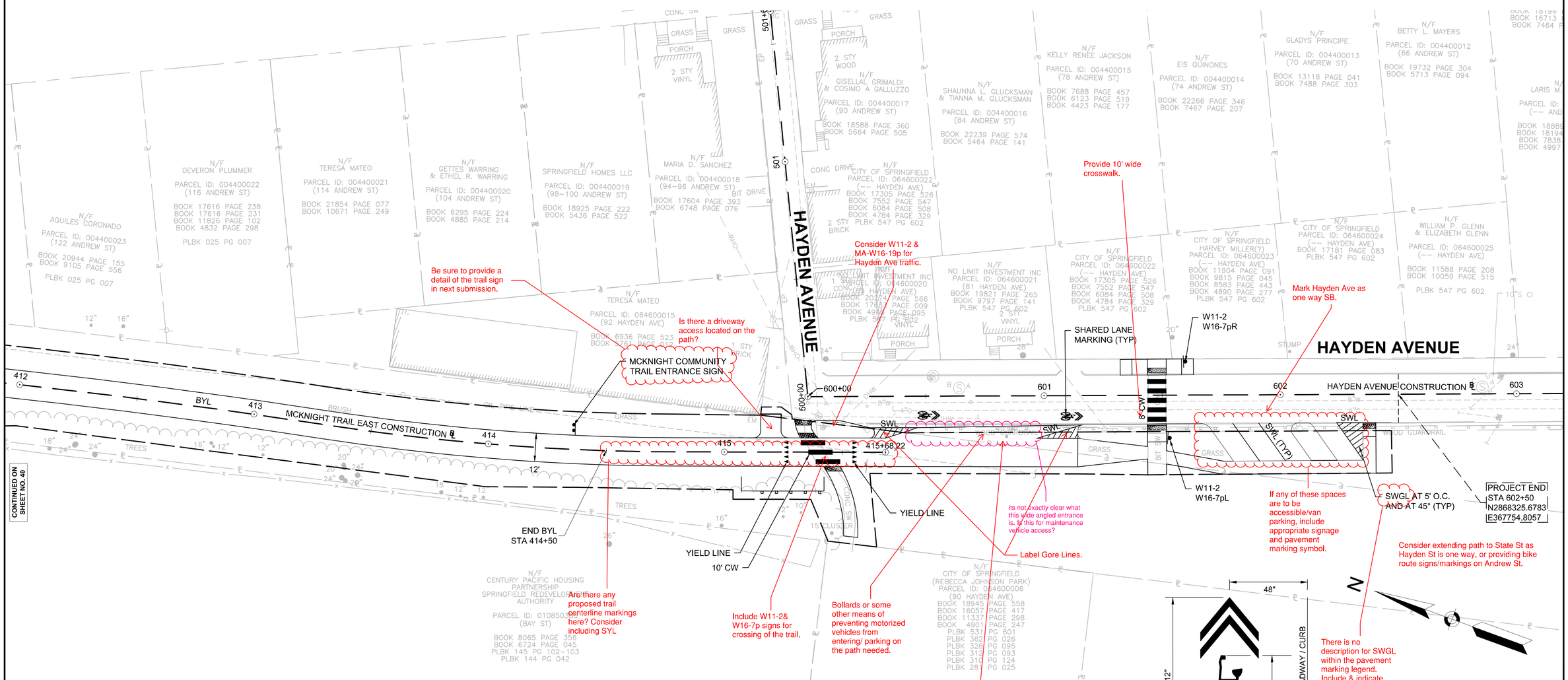
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	41	66
PROJECT FILE NO.	608157		

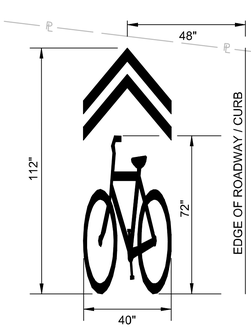
SIGN & PAVEMENT MARKING PLANS



YIELD LINE MARKING DETAIL

NOT TO SCALE





SHARED LANE MARKING DETAIL

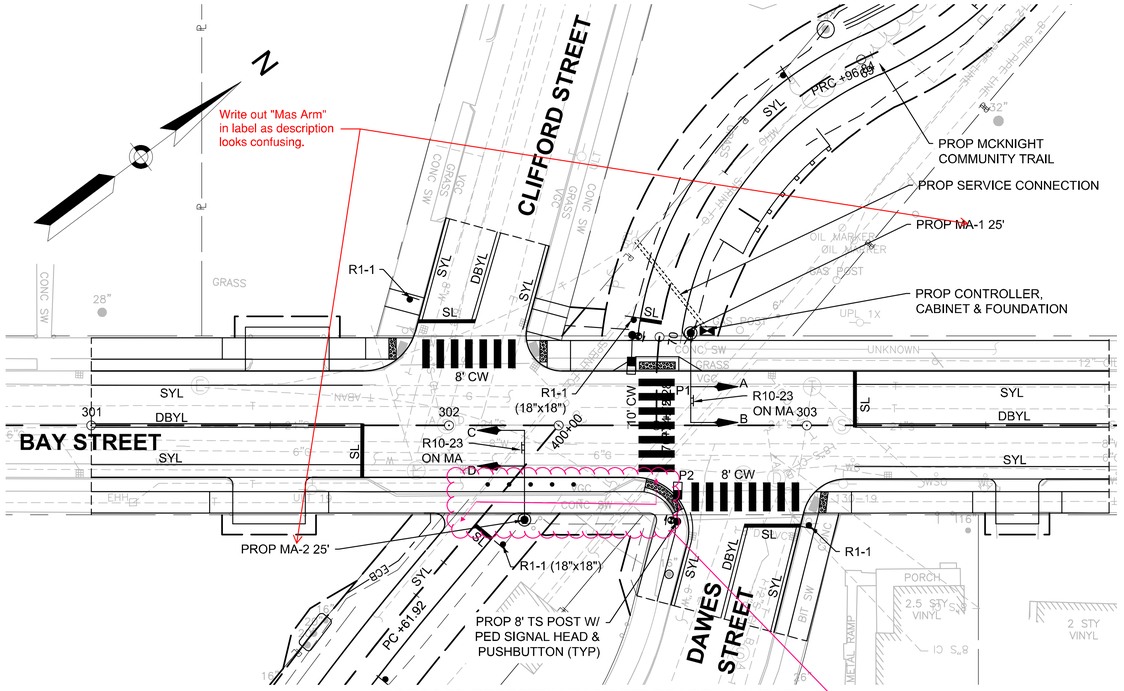
NOT TO SCALE

MASSDOT_R4.3_V2018.DWT Plotted on 6-Mar-2019 3:10 PM

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	42	66
PROJECT FILE NO.	608157		

TRAFFIC SIGNAL PLAN



PROPOSED PEDESTRIAN HYBRID BEACON LAYOUT

0 20 50 100

SCALE: 1" = 20'

This short section will only be 6' wide and involves two sharp turns which will be a bit awkward on bikes. Since there is a proposed signal here why not connect directly in line with the 12' paths? Splitter islands are often used on the path in these situations to draw attention to the roadway crossing.

LOCATION: A,B,C,D

LOCATION: P1-P2

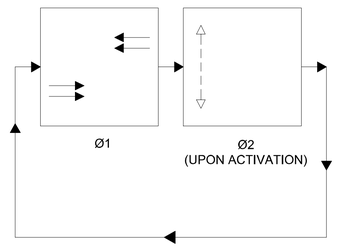
SIGNAL HEAD DESIGNATIONS

NOT TO SCALE

SIGNAL HEAD NOTES

1. ALL SIGNAL HEADS SHALL HAVE BACKPLATES AND TUNNEL VISORS.
2. ALL SIGNAL BACKPLATES SHALL BE 5" LOUVERED WITH 3" YELLOW RETROREFLECTIVE BORDER.
3. ALL SIGNAL LENSES SHALL BE 12" DIA. LED.
4. ALL PEDESTRIAN SIGNAL HEADS SHALL DISPLAY INTERNATIONAL SYMBOLS - (HAND)/(PERSON WALKING) WITH COUNTDOWN DISPLAYS.
5. ALL PEDESTRIAN SIGNAL HEADS SHALL HAVE 16" LED LENSES AND SUN VISORS.
6. ALL SIGNAL HEADS SHALL BE FIXED MOUNTED.

MUTCD Section 4F.02 paragraph 04 states that "the pedestrian hybrid beacon should be installed at least 100 feet from side streets or driveways that are controlled by STOP or YIELD signs." Both Dawes and Clifford Street are in very close proximity to the crossing without any indications for either approach. Evaluate the pedestrian safety of the proposed HAWK location.



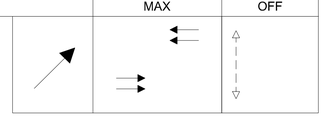
PREFERENTIAL PHASE SEQUENCE

SEQUENCE AND TIMING CHART FOR PEDESTRIAN HYBRID BEACON (HAWK) SIGNAL

??? Revise

PHASE			Ø1				Ø2		
STREET	DIRECTION	HOUSINGS	1	2	3	4	4	5	6
BAY STREET	NB	A,B	OUT*	FY	SY	SR	SR	FR	FR
BAY STREET	SB	C,D	OUT*	FY	SY	SR	SR	FR	FR
PEDESTRIAN	ALL	P1-P2	DW	DW	DW	DW	W	FDW	DW
TIMING IN SECONDS									
MINIMUM GREEN			45						
PASSAGE TIME			-						
MAXIMUM 1			-						
MAXIMUM 2			-						
CLEARANCE INTERVAL				3	3	1			4
WALK/CLEARANCE/BUFFER INTERVAL							7	5	
DETECTOR MEMORY			NON-LOCK				LOCK		
RECALL SWITCH			MAX				OFF		

* DARK UNTIL ACTIVATED



SEQUENCE FOR PEDESTRIAN HYBRID BEACON (HAWK) SIGNAL

R R Y	1. DARK UNTIL ACTIVATED.		1. DON'T WALK.
R R FY	2. FLASHING YELLOW UPON ACTIVATION.		2. DON'T WALK.
R R SY	3. STEADY YELLOW FOR VEHICLE CLEARANCE		3. DON'T WALK.
SR SR Y	4. STEADY RED DURING BUFFER INTERVAL.		4. DON'T WALK.
SR SR Y	5. STEADY RED DURING PEDESTRIAN WALK INTERVAL.		5. WALK.
FR R Y / R FR Y	6. ALTERNATING FLASHING RED DURING PEDESTRIAN CLEARANCE INTERVAL.		6. FLASHING DON'T WALK WITH COUNTDOWN.
FR R Y / R FR Y	7. ALTERNATING FLASHING RED DURING PEDESTRIAN BUFFER INTERVAL		7. DON'T WALK.
R R Y	8. DARK UNTIL ACTIVATED AGAIN .		8. DON'T WALK.

8 Stages VS 7 Stages in the Sequence and Timing Chart.Please resolve.

PEDESTRIAN HYBRID BEACON NOTES:

1. IF THE ASSIGNED RIGHT-OF-WAY FOR ANY TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT WILL NOT CHANGE DURING THE CLEARANCE INTERVAL.
2. IF THE ASSIGNED RIGHT-OF-WAY FOR ANY TRAFFIC MOVEMENT IS TO CHANGE DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATION FOR THAT TRAFFIC MOVEMENT WILL DISPLAY THE APPROPRIATE CLEARANCE INTERVALS.
3. PEDESTRIAN PHASE TO BE ACTIVATED BY PEDESTRIAN PUSH-BUTTON ONLY.
4. PEDESTRIAN PUSHBUTTONS AND SIGNS SHALL BE LOCATED IN ACCORDANCE WITH THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (FIG. 4E-4) AND POINTED PARALLEL TO THE CROSSWALK.

MAST ARM FOUNDATIONS

MAST ARM	ARM LENGTH	LOCATION		FOUNDATION SIZE			
		STATION	OFFSET	DIAMETER	DEPTH	VERT. BARS	TIE BARS
MA 1	25'	302+67.5	25.8' LT				
MA 2	25'	302+21.1	26.4' RT				

1. MAST ARM FOUNDATION DESIGN TO BE VERIFIED PENDING SOIL EXPLORATION.

MAJOR ITEMS

ITEM NO.	QUANTITY	DESCRIPTION
815.	1	TRAFFIC SIGNAL CONTROLLER (TS2, TYPE 1), LOCATED IN BASE MOUNTED CABINET (SIZE 5) WITH FOUNDATION
	2	25' MAST ARM, TYPE II, STEEL MONOLEVER WITH FOUNDATION
	2	TRAFFIC SIGNAL POST & BASE - 8' STEEL
	4	SIGNAL HEAD, 1-WAY, 3 SECTION, 12" LENSES
	4	5" 3-SECTION BACKPLATES WITH 3" YELLOW RETROREFLECTIVE YELLOW BORDER
	2	PEDESTRIAN SIGNAL HEAD, 1-WAY, 1 SECTION, 16" WITH COUNTDOWN
	2	AUDIBLE & VIBRO-TACTILE PEDESTRIAN PUSHBUTTON INTEGRATED SIGN & SADDLE WITH LED CONFIRMATION LIGHT
	1	SERVICE CONNECTION (UNDERGROUND)
811.31	-	PULL BOX, 12" X 12"
		PLUS ALL MISCELLANEOUS EQUIPMENT AND MATERIAL NECESSARY TO PROVIDE A COMPLETE OPERATING TRAFFIC CONTROL SIGNAL.

Include item for conduit in the major items list. Be sure to show the location of conduit on plans.

608157_HD(TS).DWG Plotted on 23-Jul-2021 12:35 PM

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	43	66
PROJECT FILE NO.	608157		

TEMPORARY TRAFFIC CONTROL PLAN

NOTES:

1. ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE 2009 EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS.
2. ALL SIGN LEGENDS, BORDERS AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD, EXCEPT THAT BACKGROUND COLOR SHALL BE FLUORESCENT ORANGE, IN ACCORDANCE WITH MASSDOT SPECIFICATIONS.
3. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
4. TEMPORARY CONSTRUCTION SIGNING, BARRICADES AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
5. SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, AND REFLECTORIZED PLASTIC DRUMS WITH LIGHTING DEVICES MOUNTED ON THEM, MUST PASS THE CRITERIA SET FORTH IN NCHRP REPORT 350, "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR "MANUAL FOR ASSESSING SAFETY HARDWARE" (MASH).
6. CONTRACTORS SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT AND SIMILAR OPERATIONS.
7. THE FIRST TEN PLASTIC DRUMS OF A TAPER SHALL BE MOUNTED WITH SEQUENTIAL FLASHING LIGHTS.
8. THE ADVISORY SPEED LIMIT, IF REQUIRED, SHALL BE DETERMINED BY THE ENGINEER.
9. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
10. MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
11. MINIMUM LANE WIDTH IS TO BE 11 FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.
12. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.
13. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL NOT COVERED IN THE PLAN SHALL REFER TO MASSDOT "STANDARD DETAILS AND DRAWINGS FOR THE DEVELOPMENT OF TRAFFIC MANAGEMENT PLANS".

Sequential flashing lights really only needed if traffic set-ups are to remain overnight. Either remove note from plans or include item 859.1 REFLECTORIZED DRUMS WITH SEQUENTIAL FLASHING WARNING LIGHTS in estimate.

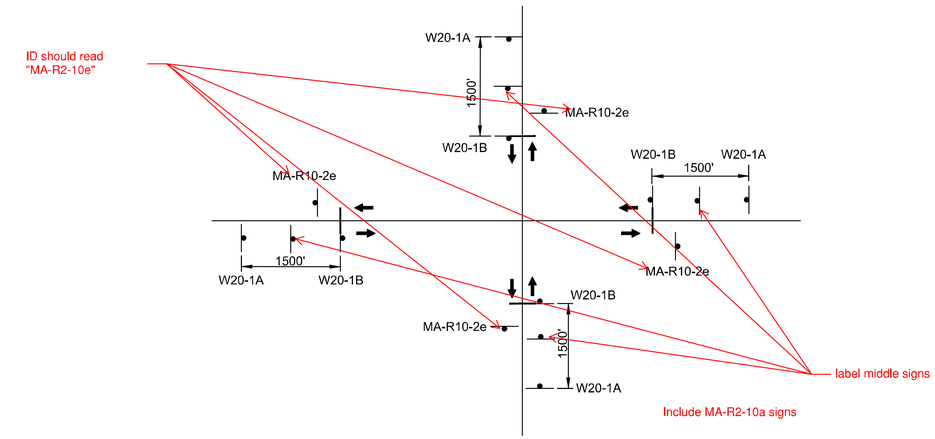
LEGEND:

- ● REFLECTORIZED PLASTIC DRUM
- TYPE III BARRICADE
- FLASHING ARROW PANNEL
- FLASHING ARROW PANNEL
- WORK ZONE
- DIRECTION OF TRAFFIC
- IMPACT ATTENUATOR
- MEDIAN BARRIER
- MEDIAN BARRIER WITH WARNING LIGHTS
- WORK VEHICLE
- TRUCK MOUNTED ATTENUATOR
- TRAFFIC OR PEDESTRIAN SIGNAL
- SIGN
- P POLICE DETAIL
- F FLAGGER

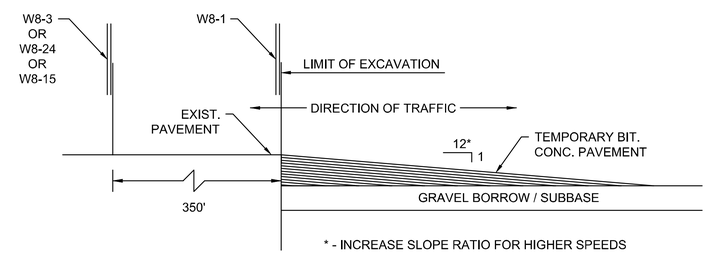
TAPER LENGTH

SPEED LIMIT	FORMULA
40 MPH or Less	$L=WS^2/60$
45 MPH or Greater	$L=W \times S$

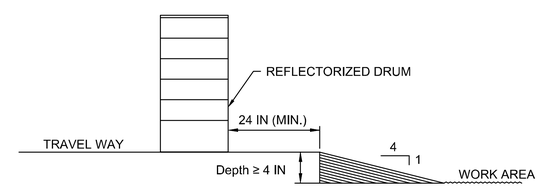
L = TAPER LENGTH IN FEET
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED IN MPH



TYPICAL INTERSECTION PROJECT LIMIT SIGNING
NOT TO SCALE



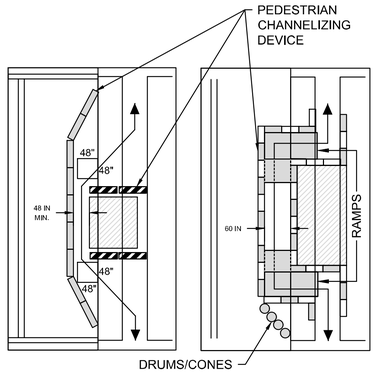
LONGITUDINAL DROP-OFF DETAIL
NOT TO SCALE



LATERAL DROP-OFF DETAIL
NOT TO SCALE

608157_HD(TTCP).DWG Plotted on 23-Jul-2021 12:35 PM

608157_HD(TTCP).DWG Plotted on 23-Jul-2021 12:35 PM



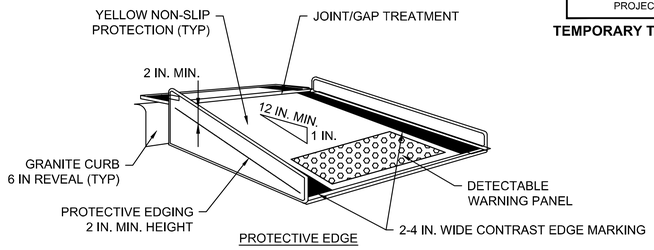
DETAIL I DETAIL II

NOTES:

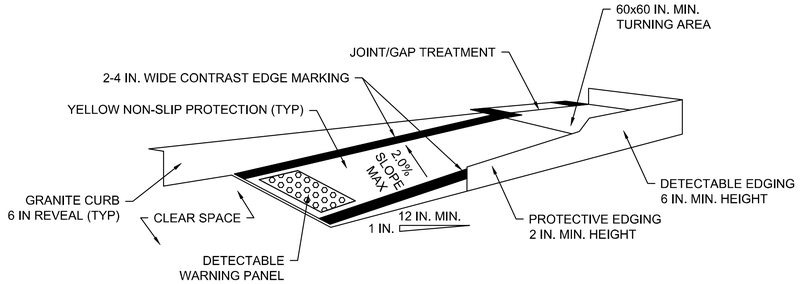
- DETAIL I IS CONSIDERED AN EXAMPLE OF A SHORT TERM CLOSURE AND PEDESTRIAN ASSISTANCE (PERSONEL) TO NAVIGATE AROUND THE CLOSURE/WORK AREA COULD BE CONSIDERED AS AN OPTION IN PLACE OF PROVIDING ADA/AAB DEVICES. DETAIL II IS CONSIDERED AN EXAMPLE OF A LONG TERM CLOSURE THAT WOULD REQUIRE ADDITIONAL ADA/AAB COMPLIANT DEVICES. IF A SIDEWALK CLOSURE OR RESTRICTION LASTS FOR MORE THAN ONE (1) WORK SHIFT THEN ADA/AAB COMPLIANCE SHALL BE FOLLOWED.
- WHEN EXISTING PEDESTRIAN FACILITIES ARE DISRUPTED, CLOSED, OR RELOCATED IN A TTC ZONE, TEMPORARY FACILITIES SHALL BE PROVIDED AND THEY SHALL BE DETECTABLE AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE FEATURES PRESENT IN THE EXISTING PEDESTRIAN FACILITY.
- A PEDESTRIAN CHANNELIZING DEVICE THAT IS DETECTABLE BY A PERSON WITH A VISUAL DISABILITY TRAVELING WITH THE AID OF A LONG CANE SHALL BE PLACED ACROSS THE FULL WIDTH OF THE CLOSED SIDEWALK.
- WHEN USED, TEMPORARY RAMPS SHALL COMPLY WITH AMERICANS WITH DISABILITIES ACT (SEE FIGURES).
- THE ALTERNATE PATHWAY SHOULD HAVE A SMOOTH CONTINUOUS HARD SURFACE FOR THE ENTIRE LENGTH OF THE TEMPORARY PEDESTRIAN FACILITY.
- THE TEMPORARY SIDEWALK SHOULD BE A MINIMUM OF 4 FEET WIDE. IF THE SIDEWALK EXEEDS 200 FEET THEN A 5 FOOT BE 5 FOOT PASSING ZONE SHALL BE PROVIDED.
- THE PROTECTIVE REQUIREMENTS OF A TTC WORK ZONE MAY HAVE AN IMPACT IN DETERMINING THE NEED FOR TEMPORARY TRAFFIC BARRIERS AND THEIR USE IN PROVIDING PEDESTRIAN DELINEATION SHOULD BE BASED ON ENGINEERING JUDGMENT .
- CONTROLS ONLY FOR PEDESTRIAN TRAFFIC ARE SHOWN; VEHICULAR TRAFFIC SHOULD BE HANDLED AS SHOWN ELSEWHERE. THESE DETAILS ARE USED IN CONJUNCTION WITH THE PROPOSED LANE CLOSURE DETAILS AND DURING CONSTRUCTION STAGING, AS DETERMINED BY THE ENGINEER.
- AUDIBLE INFORMATION DEVICES SHOULD BE CONSIDERED WHERE MIDBLOCK CLOSINGS AND CHANGED CROSSWALK AREAS CAUSE INADEQUATE COMMUNICATION TO BE PROVIDED TO PEDESTRIANS WHO HAVE VISUAL DISABILITIES.
- EXISTING AUDIBLE DEVICES NO LONGER APPLICABLE DUE TO CONSTRUCTION SHALL BE DISABLED.

AUDIBLE DEVICES:

- FOR LONG TERM SIDEWALK CLOSURES (AT A MINIMUM OVERNIGHT) A FORM OF SPEECH MESSAGING FOR PEDESTRIANS WITH VISUAL DISABILITIES SHALL BE PROVIDED. AUDIBLE INFORMATION DEVICES SUCH AS DETECTABLE BARRIERS OR BARRICADES AND OTHER PASSIVE PEDESTRIAN ACTIVATION (MOTION ACTIVATED) DEVICES SHOULD BE CONSIDERED FOR THESE CASES. THESE AUDIBLE DEVICES CAN BE MOUNTABLE OR STAND ALONE.



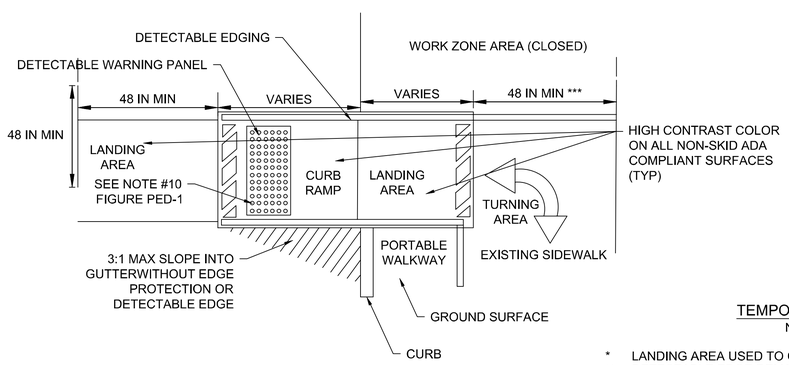
TEMPORARY CURB RAMP-PERPENDICULAR TO CURB
NOT TO SCALE

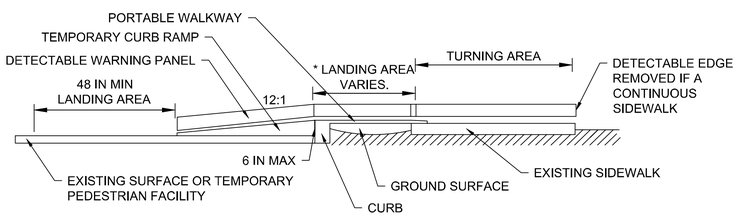


TEMPORARY CURB RAMP-PARALLEL TO CURB
NOT TO SCALE

NOTES:

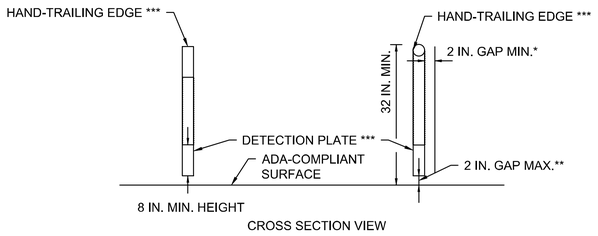
1. CURB RAMPS SHALL BE 60 IN. MINIMUM WIDTH WITH A FIRM, STABLE AND NON-SLIP SURFACE.
2. PROTECTIVE EDGING WITH A 2 IN. MINIMUM HEIGHT SHALL BE INSTALLED WHEN THE CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6 IN. OR GREATER OR HAS A SIDE APRON SLOP STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN THE CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3 IN. OR MORE.
3. DETECTABLE EDGING WITH 6 IN. MINIMUM HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
4. THE CURB RAMP WALKWAY AND LANDING AREA SURFACE SHALL BE OF A SOLID CONTINUOUS CONTRASTING COLOR ABUTTING UP TO THE EXISTING SIDEWALK.
5. CURB RAMPS AND LANDINGS SHOULD HAVE A 1:50 (2%) MAX CROSS-SLOPE.
6. CLEAR SPACE OF 48x48 IN. MINIMUM SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
7. WATER FLOW IN THE GUTTER SYSTEM SHALL HAVE MINIMAL RESTRICTION.
8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 0.5 IN. WIDTH.
9. CHANGES BETWEEN SURFACE HEIGHTS SHOULD NOT EXCEED 0.5 IN. LATERAL EDGES SHOULD BE VERTICAL UP TO 0.25 IN. HIGH, AND BEVELED AT 1:2 BETWEEN 0.25 IN. AND 0.5 IN. HEIGHT.
10. IF A TEMPORARY PEDESTRIAN RAMP LEADS TO A CROSSWALK, THEN A DETECTABLE WARNING PAD MUST BE ADHERED TO THE BASE OF THE RAMP. IF IT LEADS TO A PROTECTED PEDESTRIAN BYPASS THAT DOES NOT CONFLICT WITH VEHICULAR TRAFFIC, THEN A PAD SHALL NOT BE INSTALLED ON THE RAMP.





TEMPORARY CURB RAMP
NOT TO SCALE

* LANDING AREA USED TO OVERLAP NON-ADA COMPLIANT SURFACES.
** DETECTABLE EDGE REMOVED IF A CONTINUOUS SIDEWALK.
*** 60 IN. IF AN OBSTRUCTION IS AT BACK OF SIDEWALK



PEDESTRIAN CHANNELIZING DEVICE
NOT TO SCALE

NOTES:

* THERE SHALL BE A 2 INCH GAP BETWEEN THE HAND-TRAILING EDGE AND ITS SUPPORT.
** A MAXIMUM 2 INCH GAP BETWEEN THE BOTTOM OF THE BOTTOM RAIL AND THE SURFACE MAY BE USED TO PROVIDE DRAINAGE.
*** THE HAND-TRAILING EDGE AND DETECTION PLATE SHALL BE CONTINUOUS THROUGHOUT THE LENGTH OF THE PATH SUCH THAT A PEDESTRIAN USER WITH A LONG CANE CAN FOLLOW IT.

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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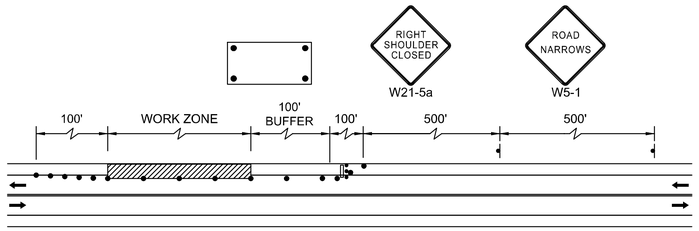
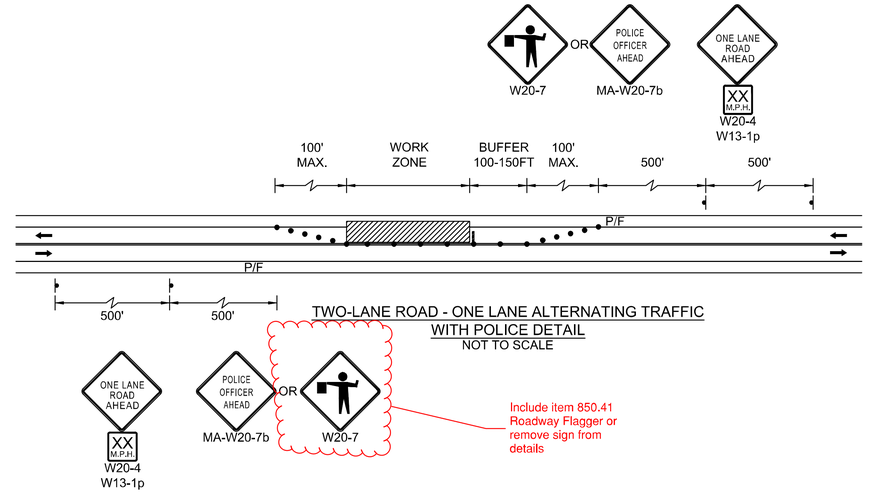
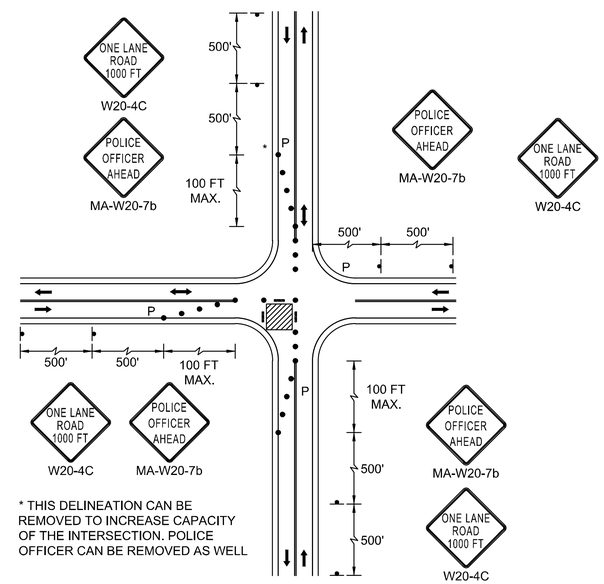
TEMPORARY TRAFFIC CONTROL PLAN



TWO-LANE ROAD - SHOULDER CLOSED
NOT TO SCALE

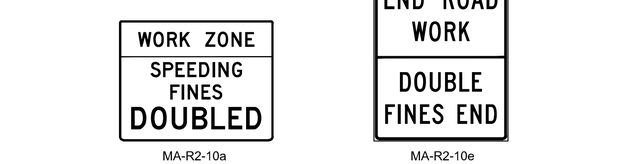


TWO-LANE ROAD - ONE LANE ALTERNATING TRAFFIC
WITH POLICE DETAIL
NOT TO SCALE



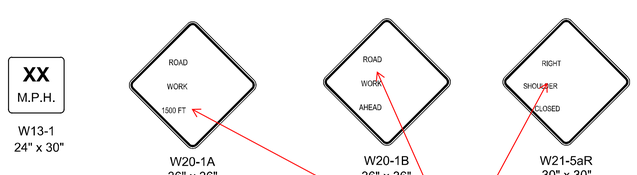
* THIS DELINEATION CAN BE REMOVED TO INCREASE CAPACITY OF THE INTERSECTION. POLICE OFFICER CAN BE REMOVED AS WELL

INTERSECTION WITH LANE CLOSURE



MA-R2-10a
NOTE:
"WORK ZONE"
BLACK ON ORANGE;
"SPEEDING FINES DOUBLED"
BLACK ON WHITE

MA-R2-10e
NOTE:
"END ROAD WORK"
BLACK ON ORANGE;
"DOUBLE FINES END"
BLACK ON WHITE



CONSTRUCTION SIGNS
NOT TO SCALE

fix sign text to be legible.

instead include Temporary Traffic Sign Summary with all potential Safety Signing for Traffic Management.

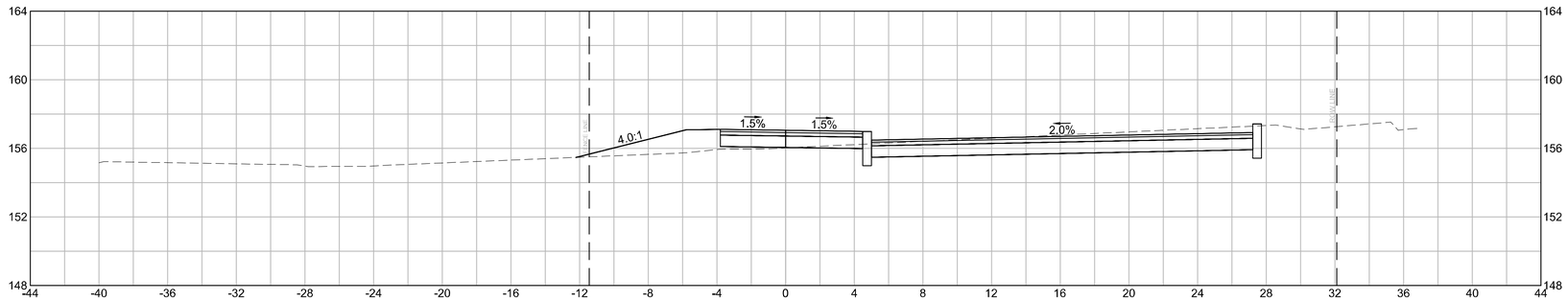
608157_HD(TTCP).DWG Plotted on 23-Jul-2021 12:35 PM

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-		66
PROJECT FILE NO.	608157		

608157_XSECT.DWG Plotted on 23-Jul-2021 12:36 PM

11+00



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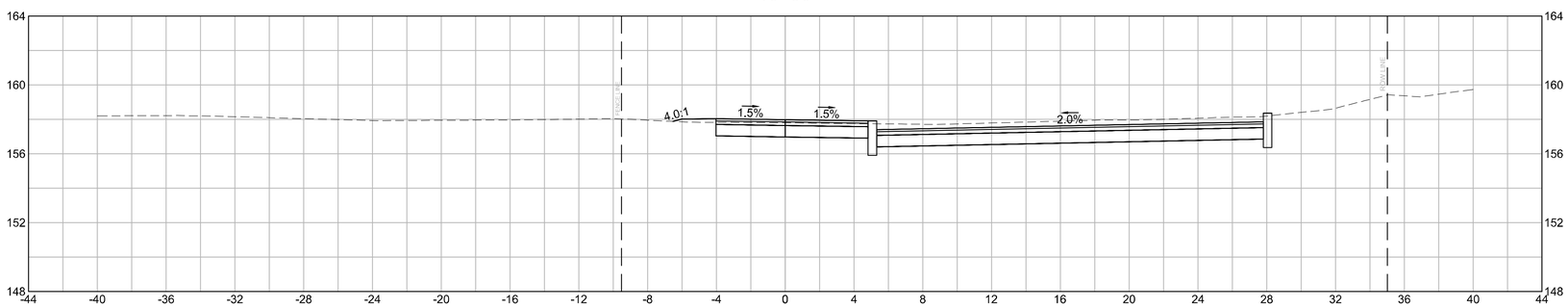

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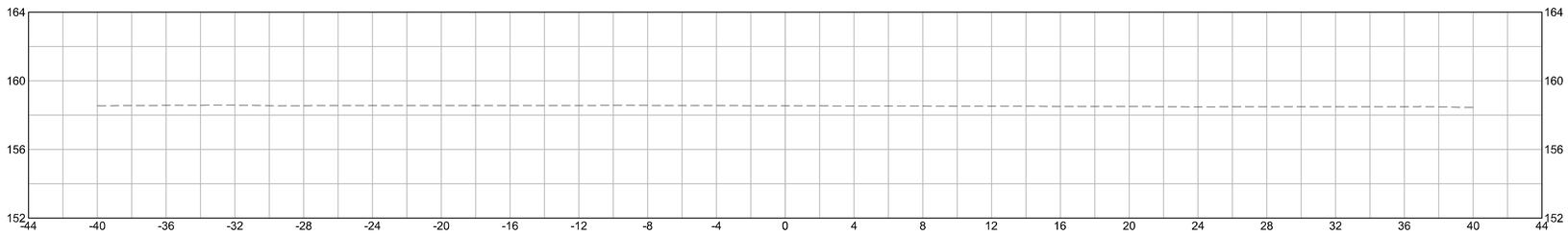

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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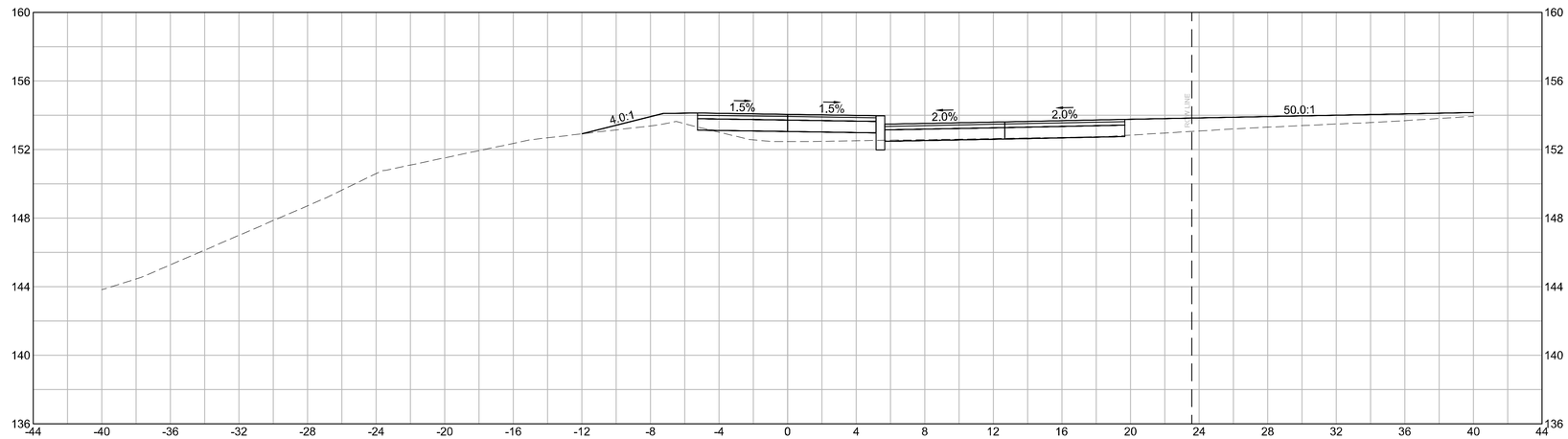
12+50



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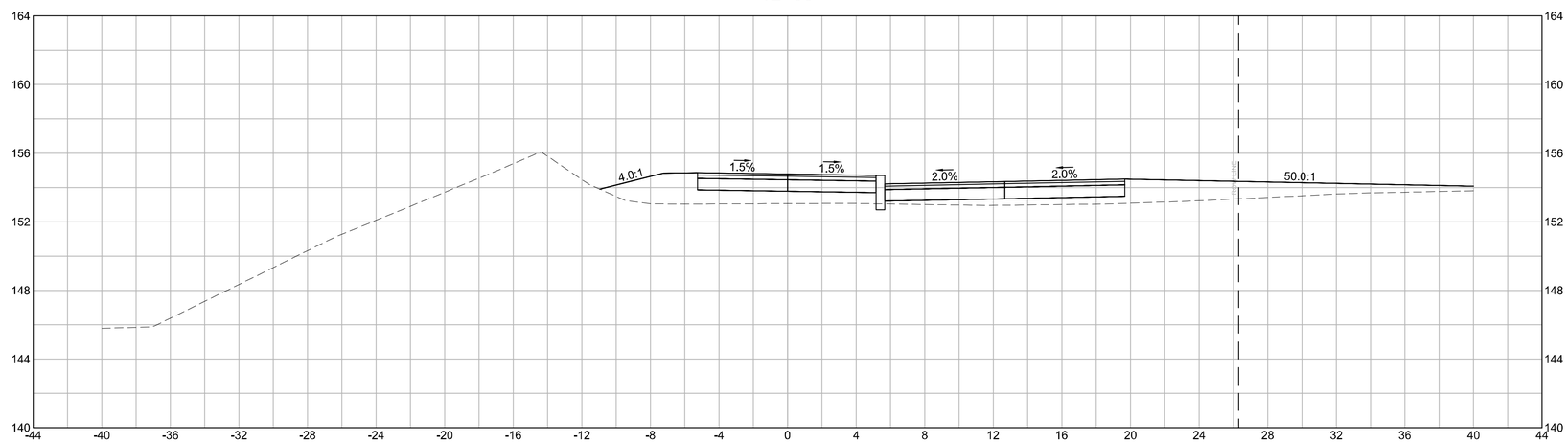

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VER. SCALE IN FEET

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SPRINGFIELD
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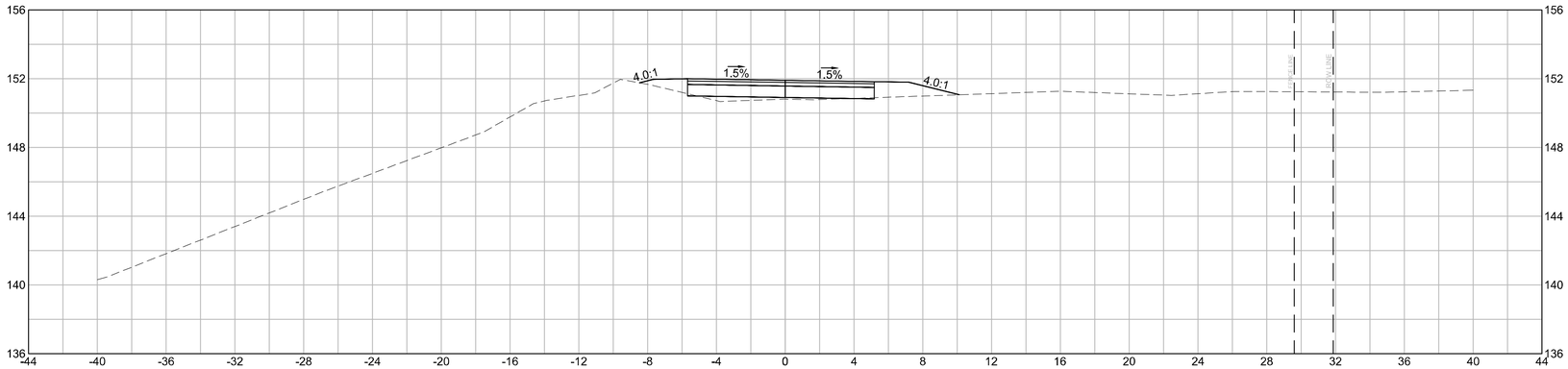

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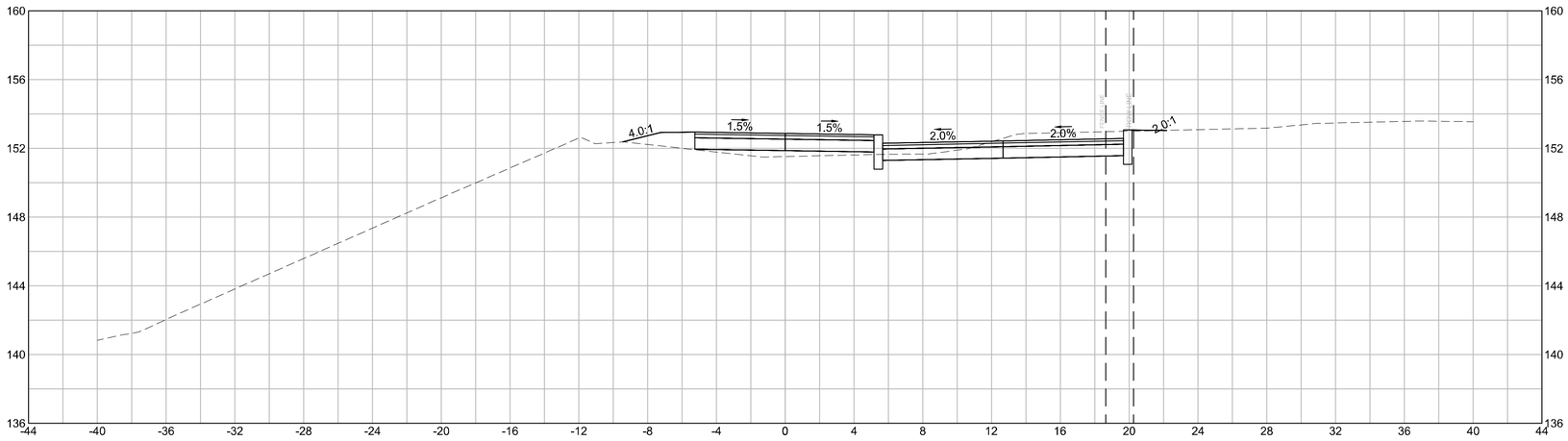

HOR. SCALE IN FEET
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SPRINGFIELD
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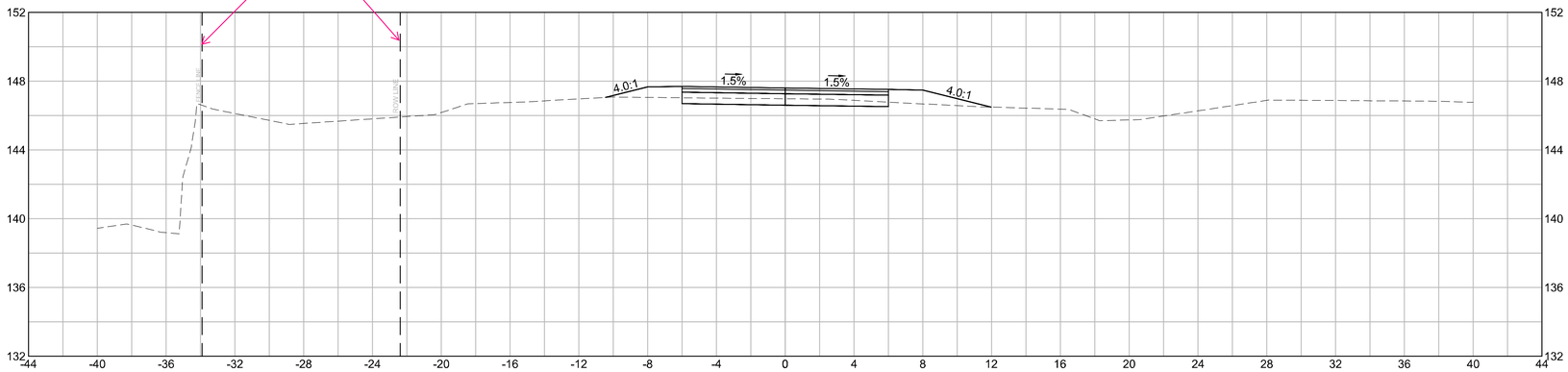
identify what these lines represent

18+00



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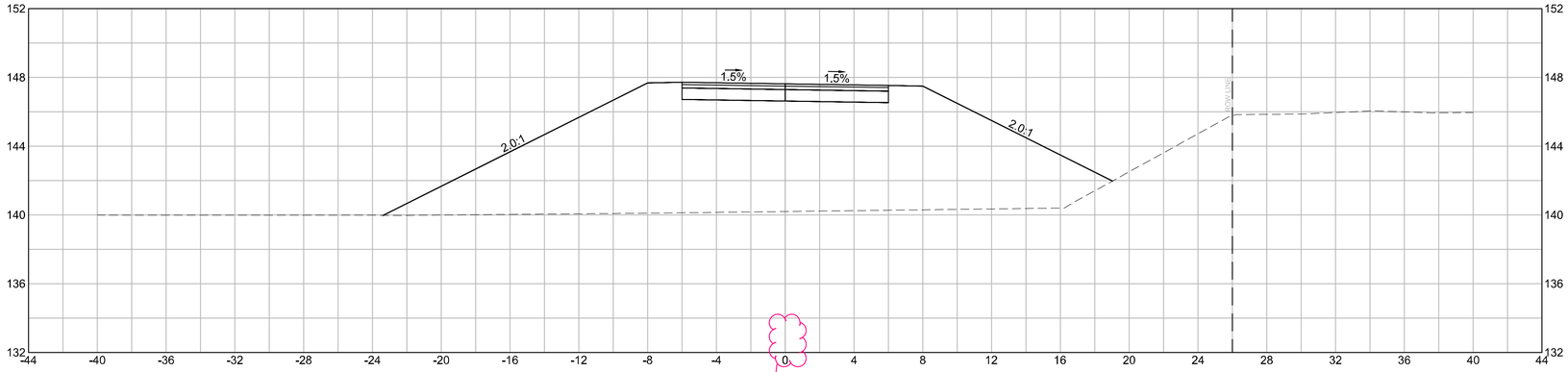

for the next submission existing and proposed profile elevations are required

HOR. SCALE IN FEET
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4 0 4 8
VER. SCALE IN FEET

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SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

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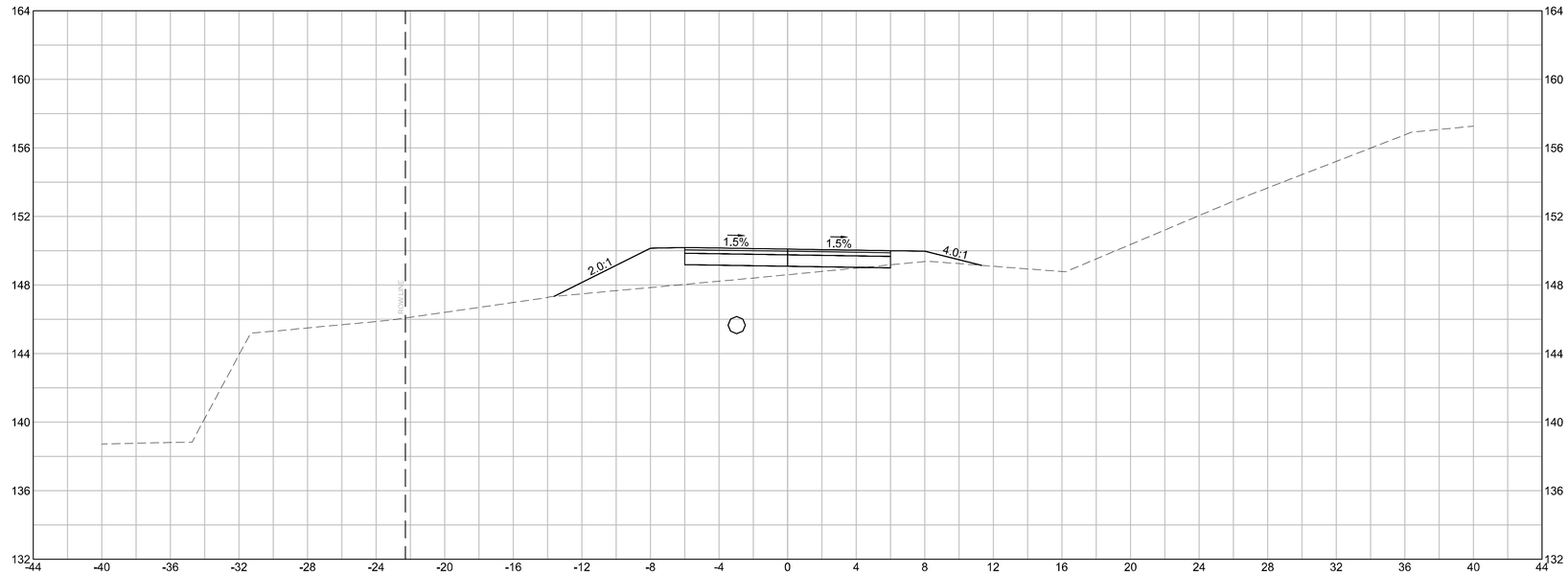
19+50



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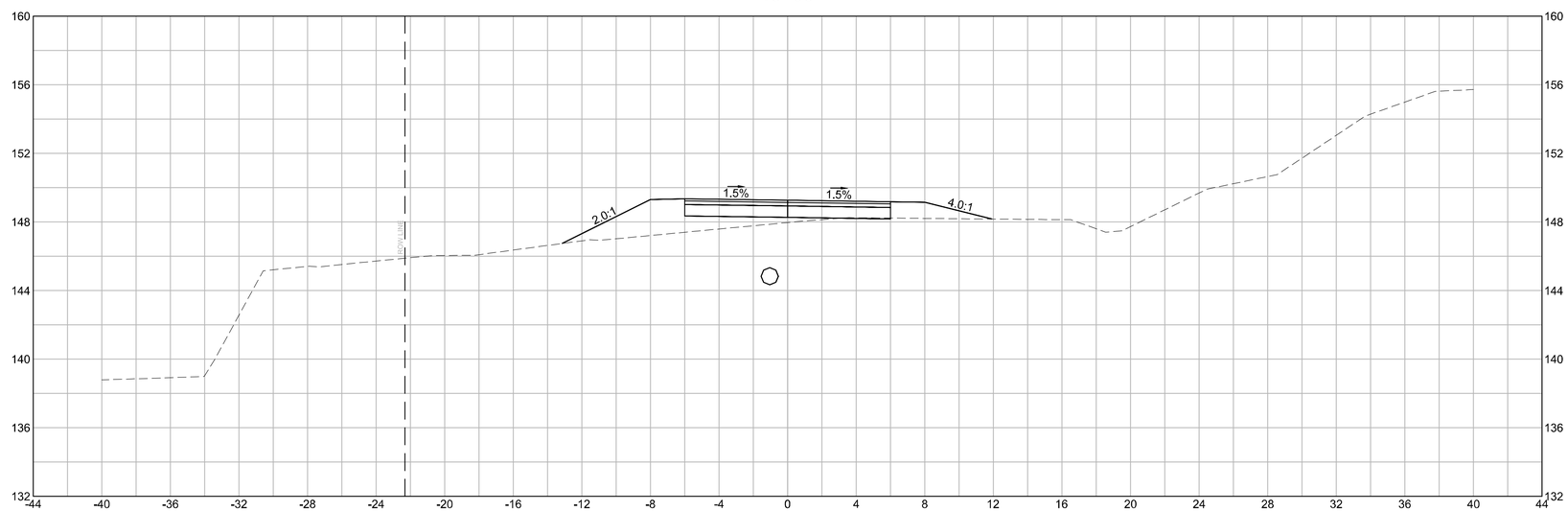

HOR. SCALE IN FEET
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VER. SCALE IN FEET

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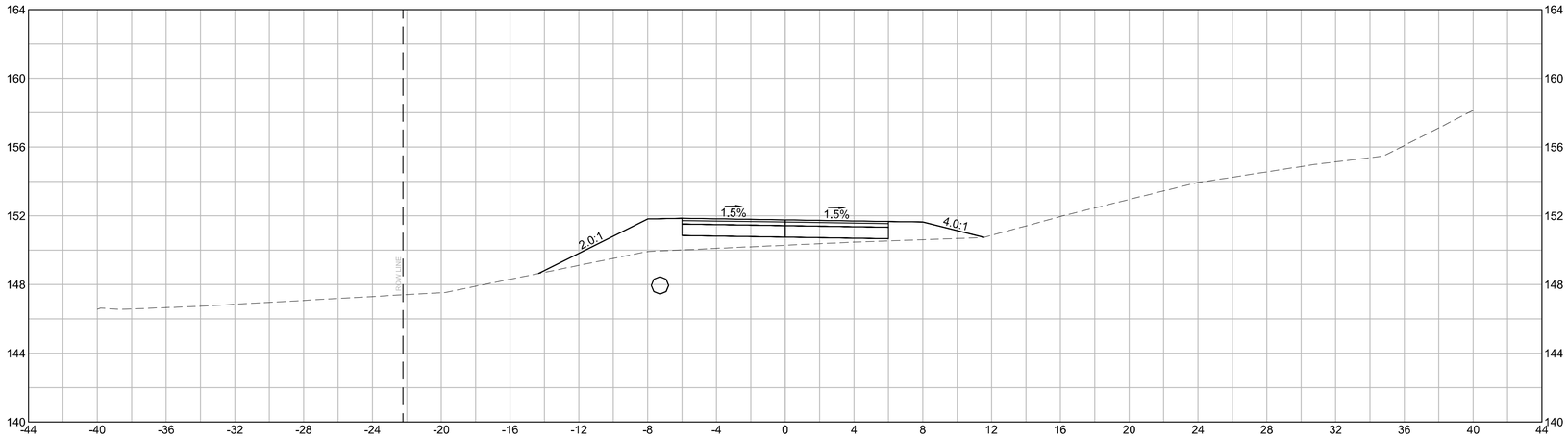

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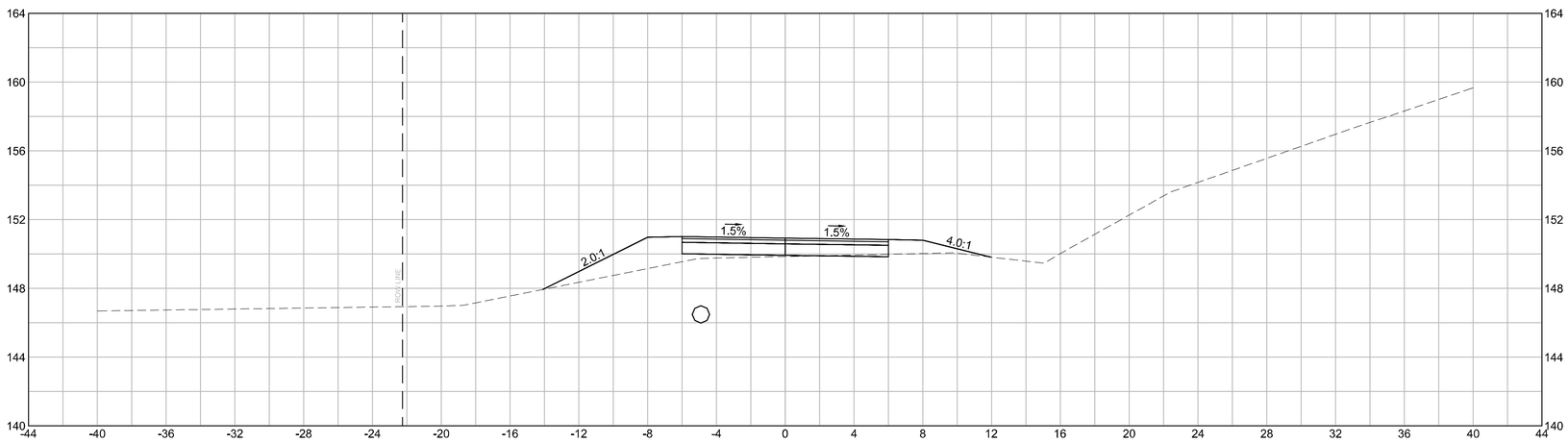

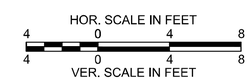

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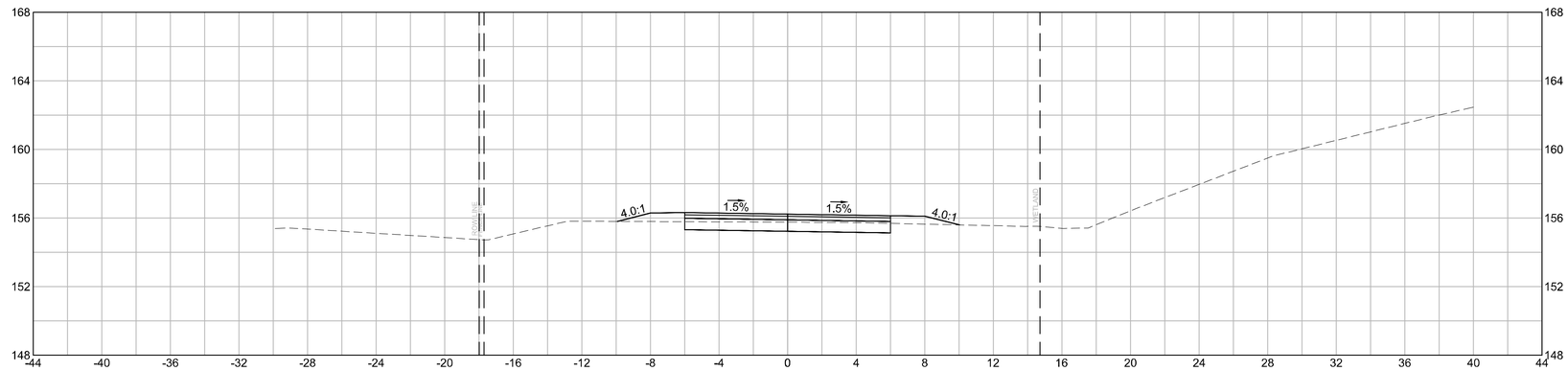

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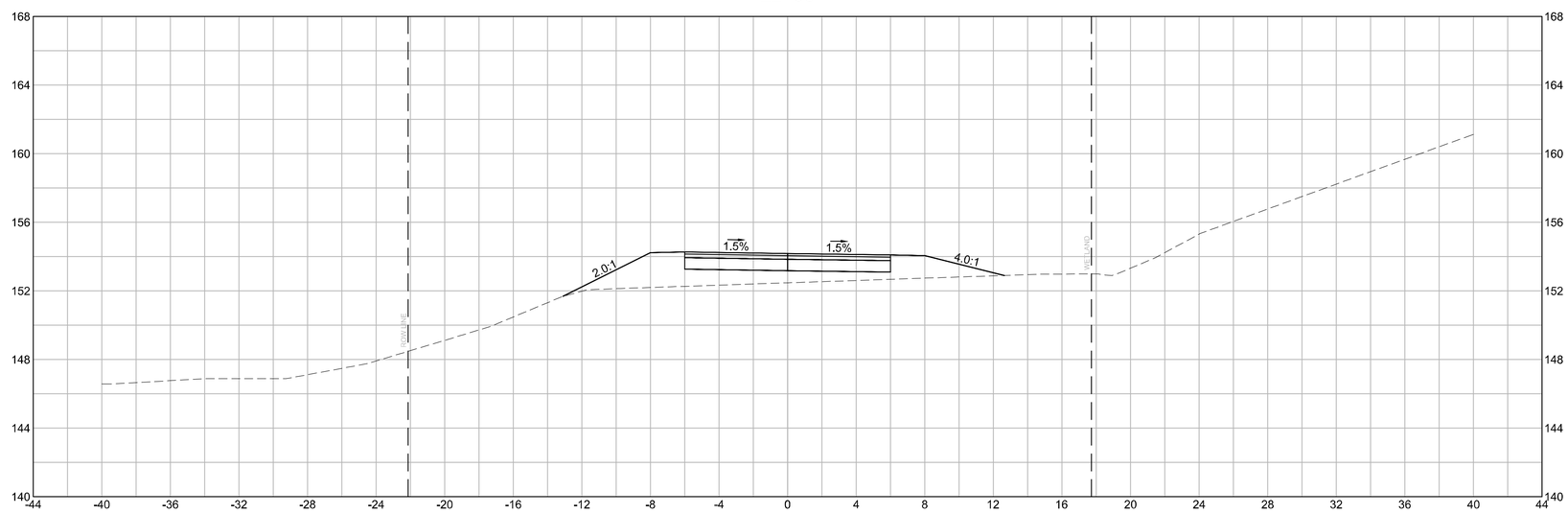

HOR. SCALE IN FEET
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VER. SCALE IN FEET

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

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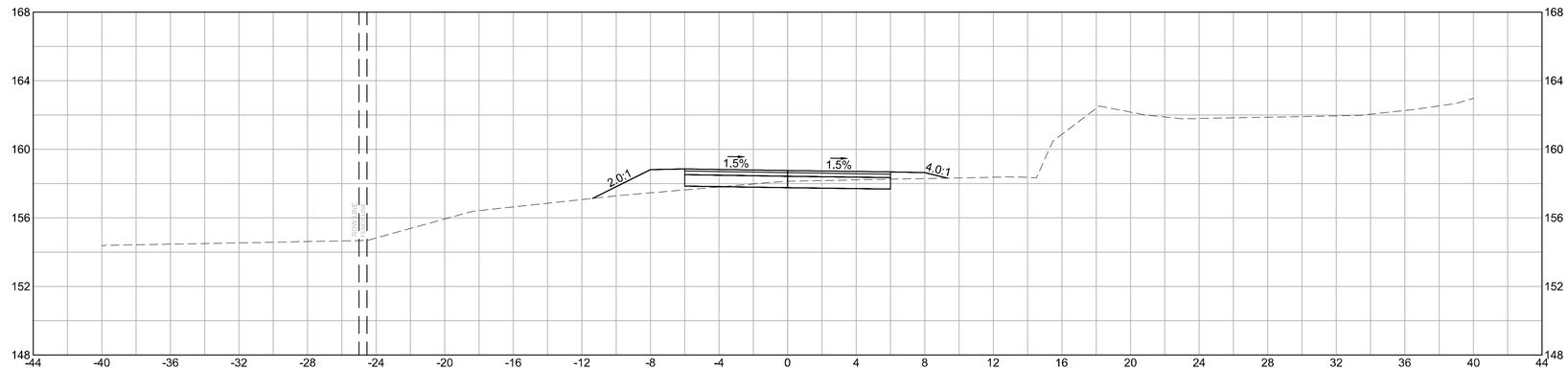

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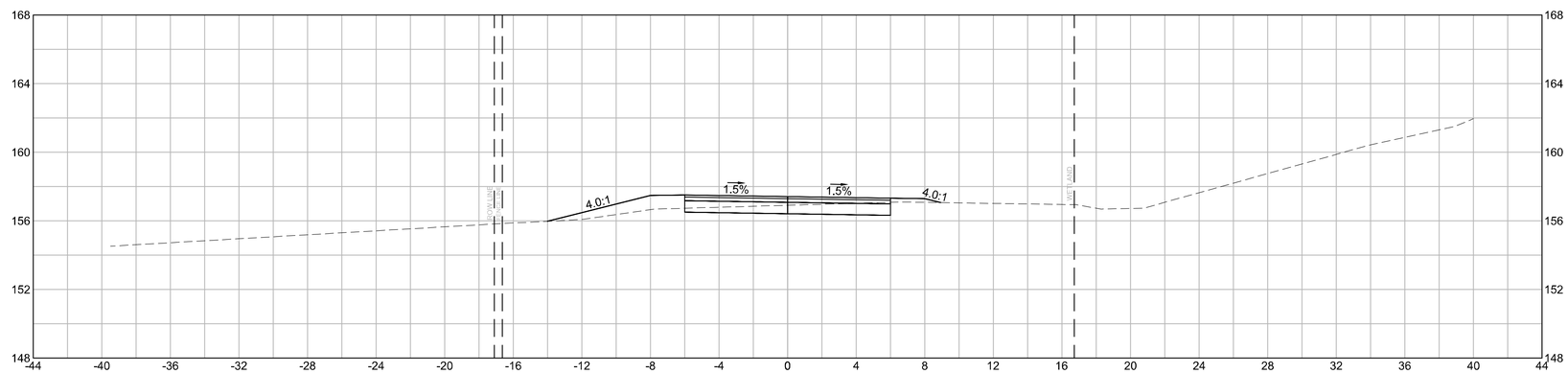

HOR. SCALE IN FEET
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VER. SCALE IN FEET

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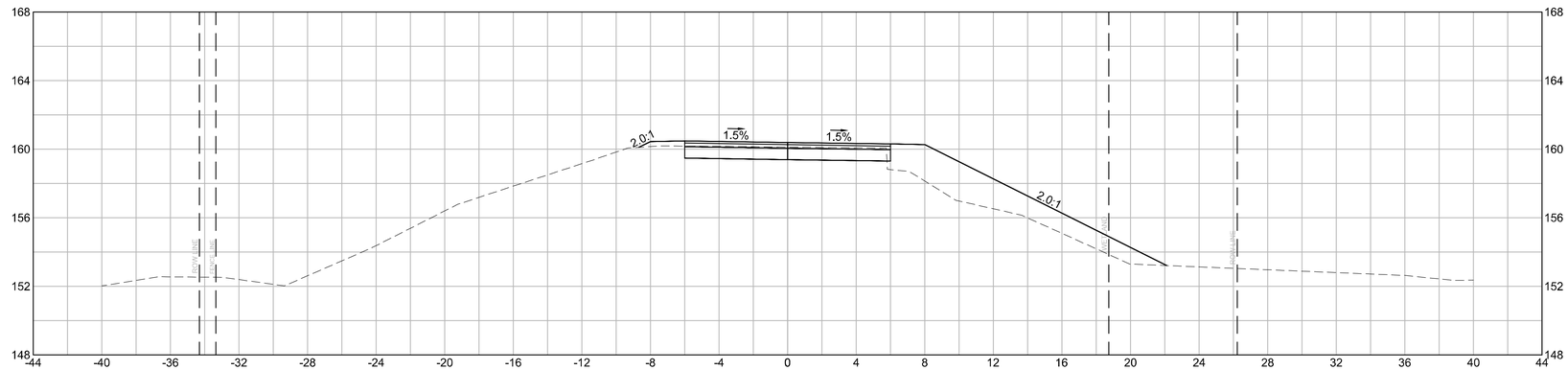

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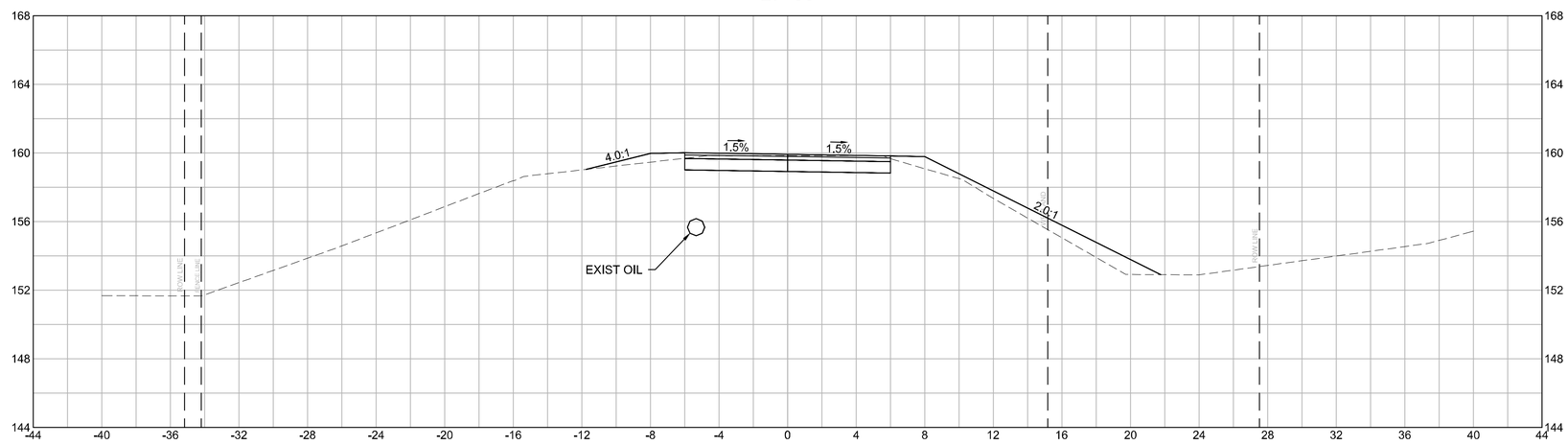

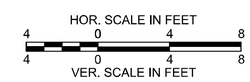

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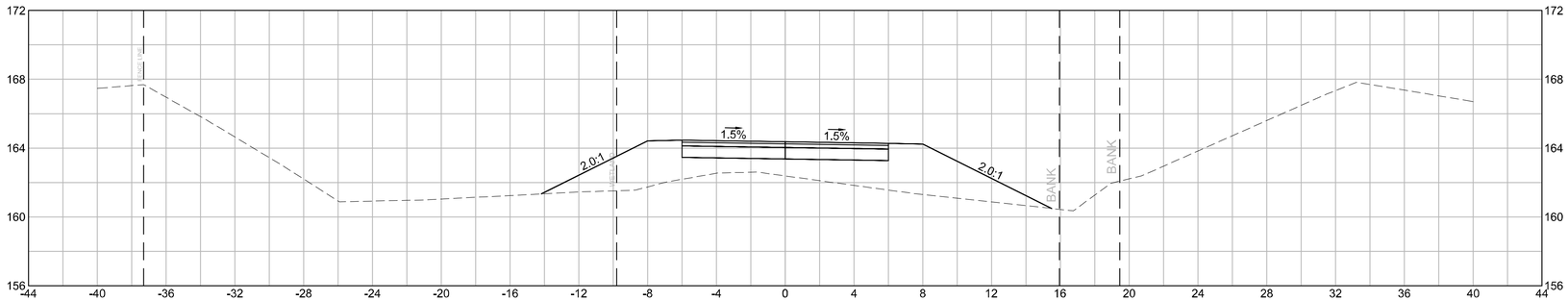

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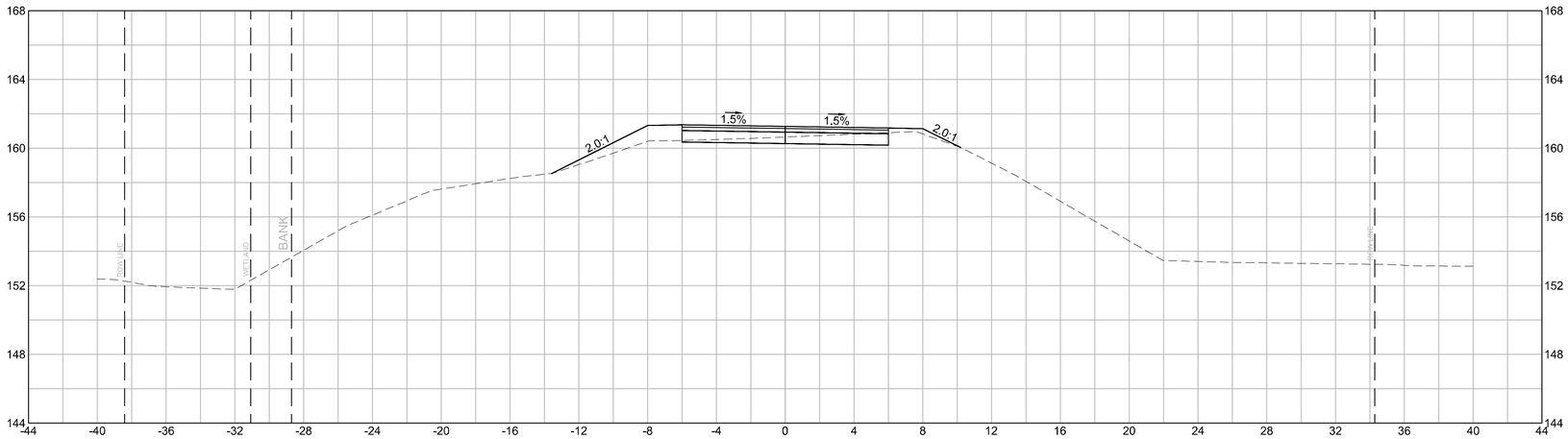

HOR. SCALE IN FEET
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VER. SCALE IN FEET

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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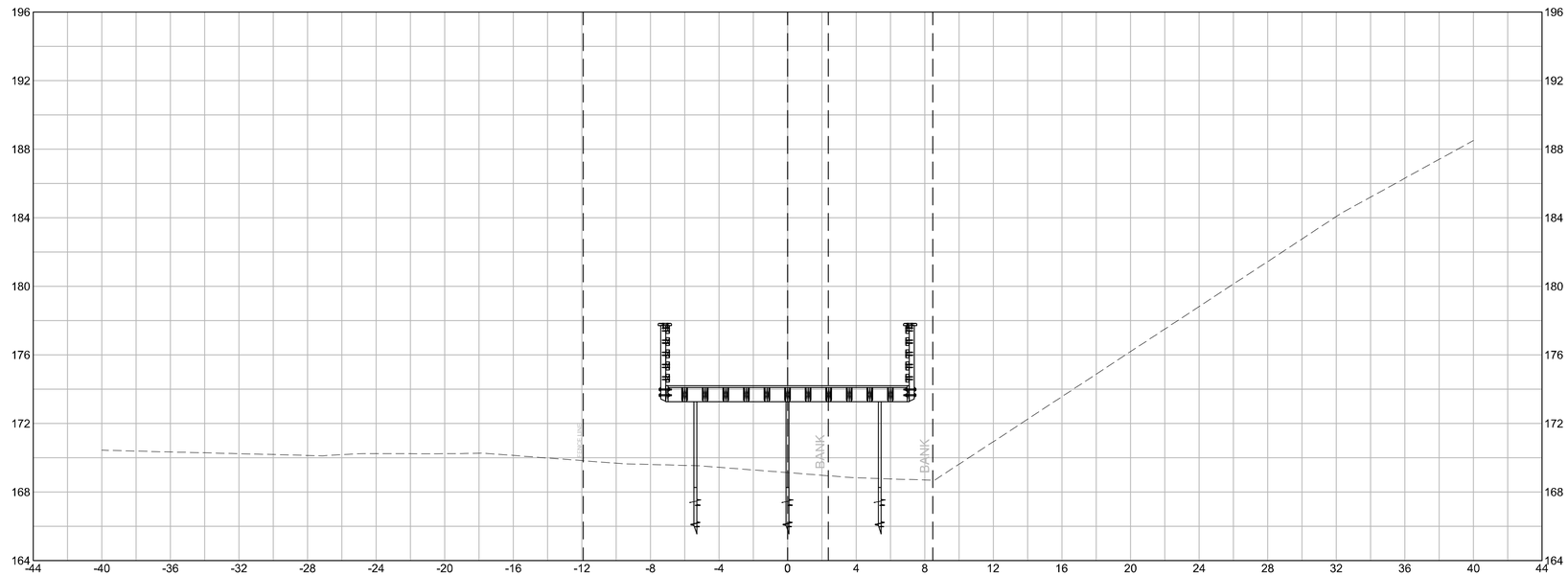
34+00



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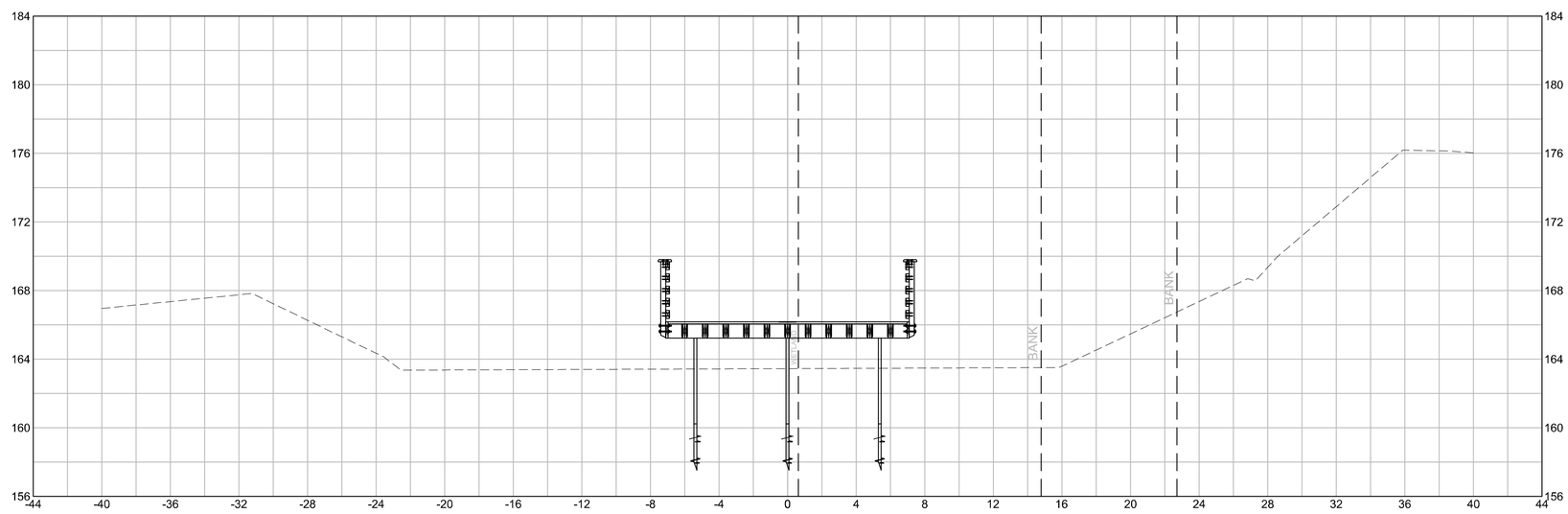

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VER. SCALE IN FEET

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SPRINGFIELD
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STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-		66
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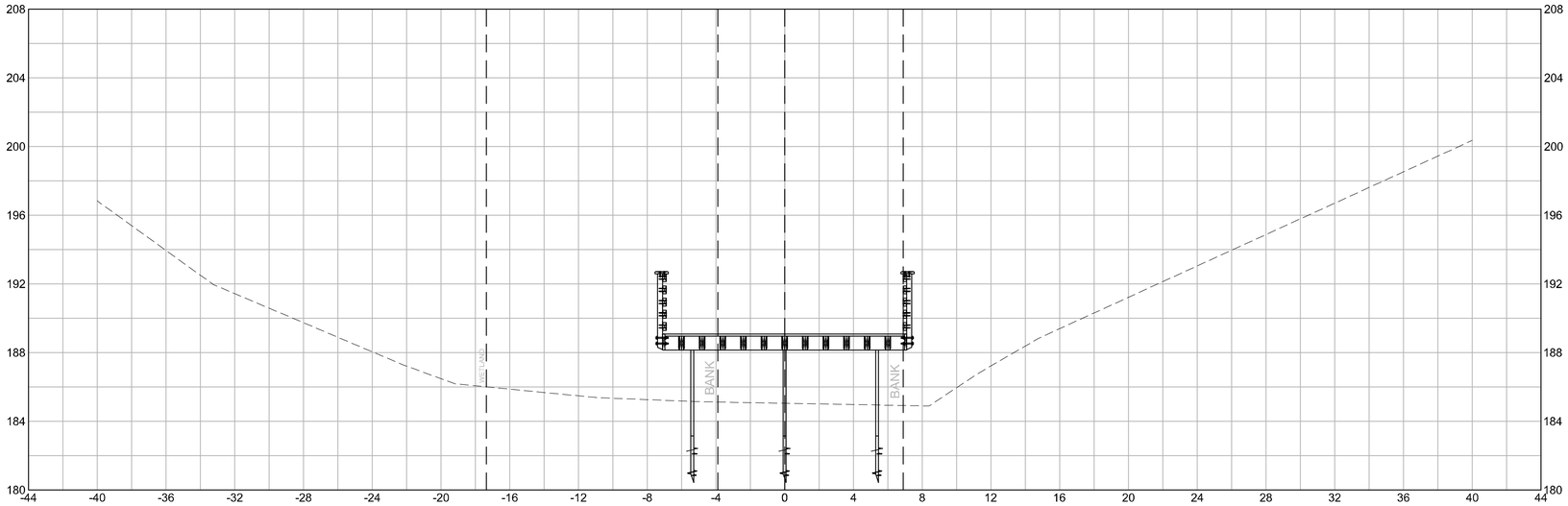
43+50



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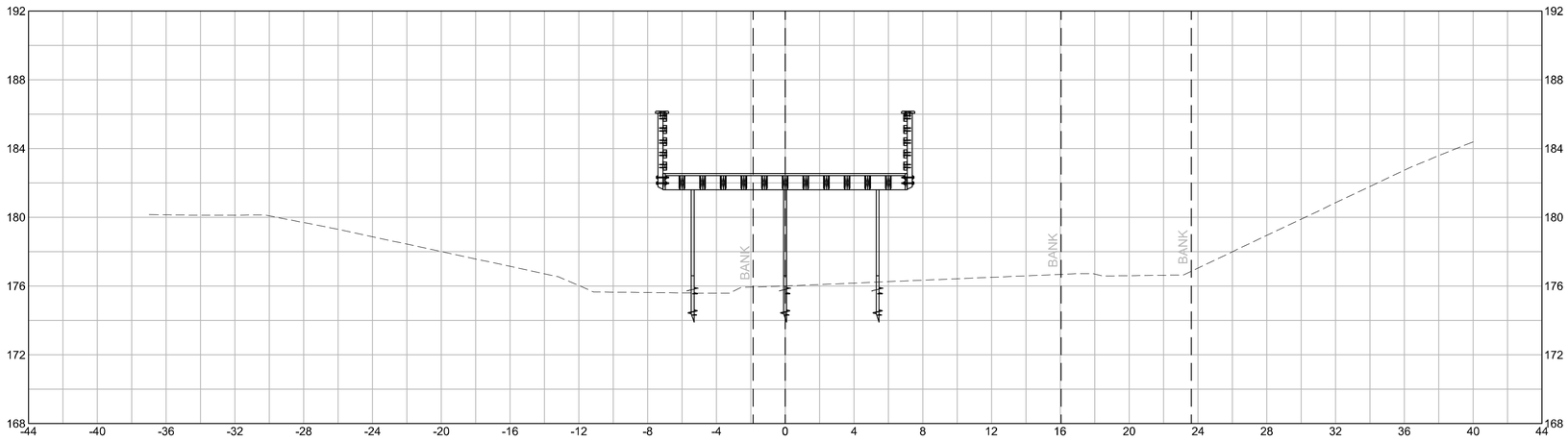

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VER. SCALE IN FEET

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SPRINGFIELD
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STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-		66
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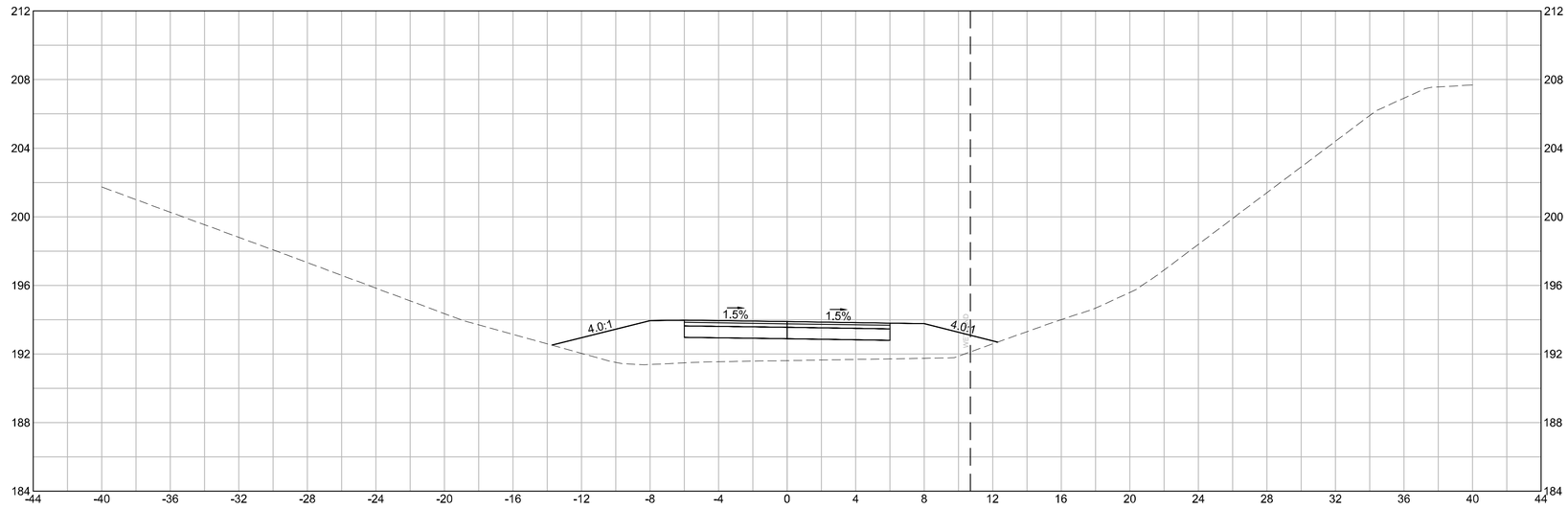
48+00



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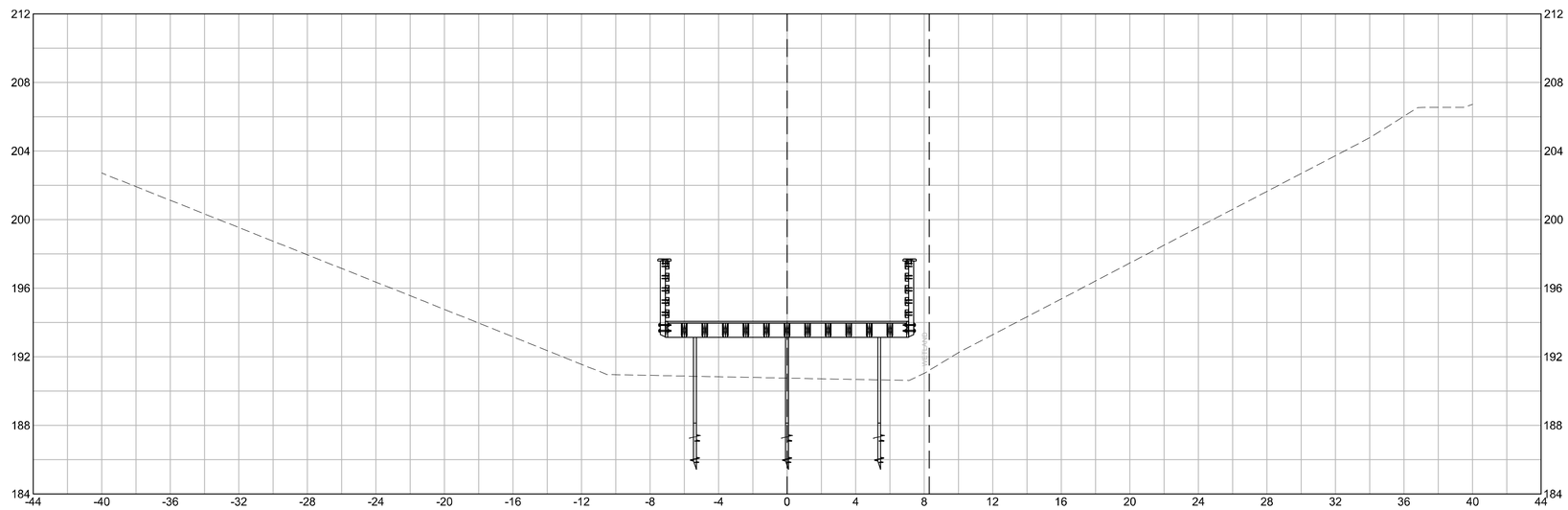

HOR. SCALE IN FEET
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VER. SCALE IN FEET

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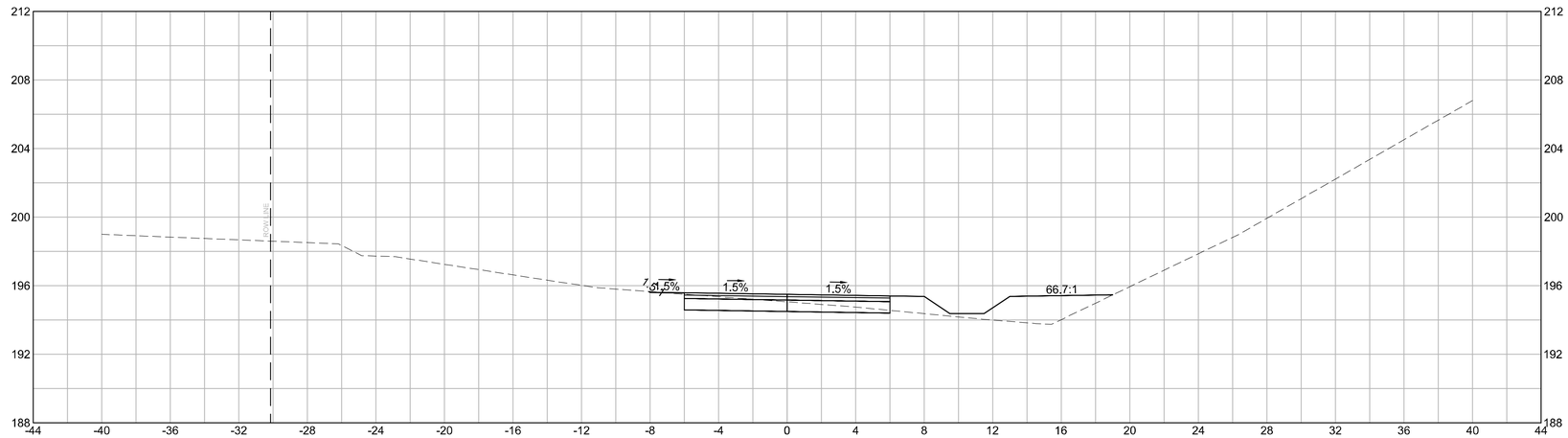
51+00



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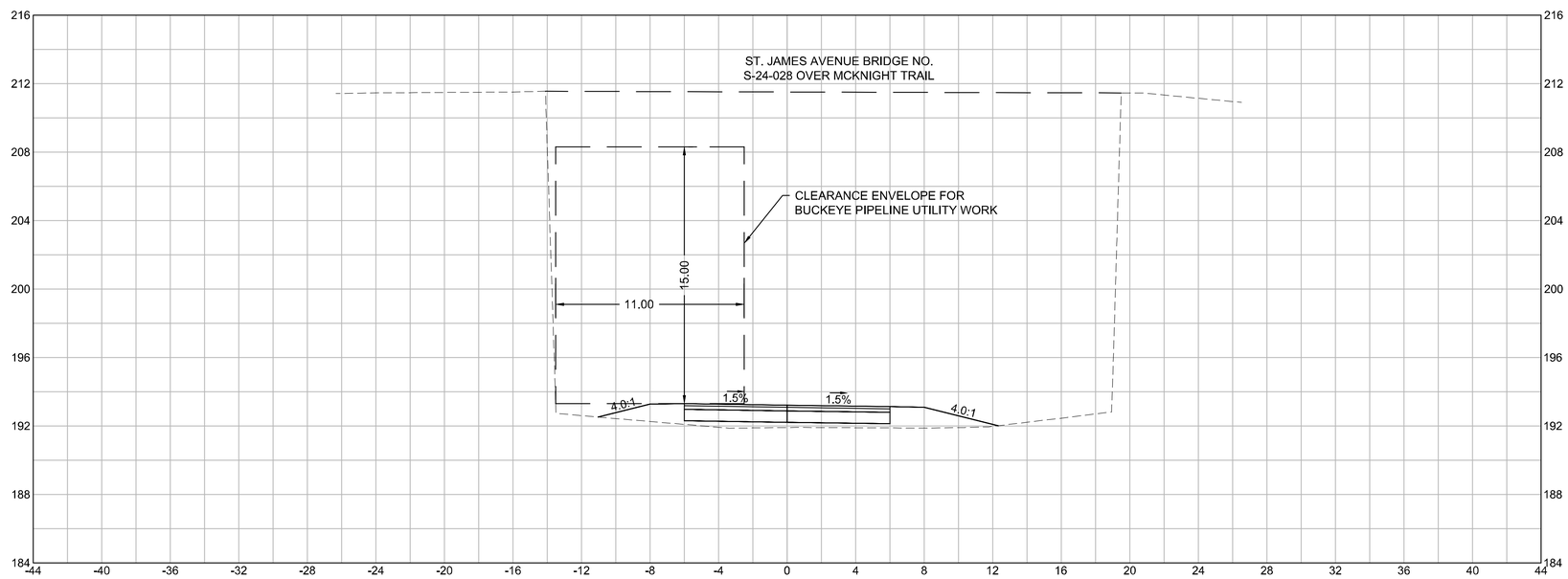

HOR. SCALE IN FEET
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VER. SCALE IN FEET

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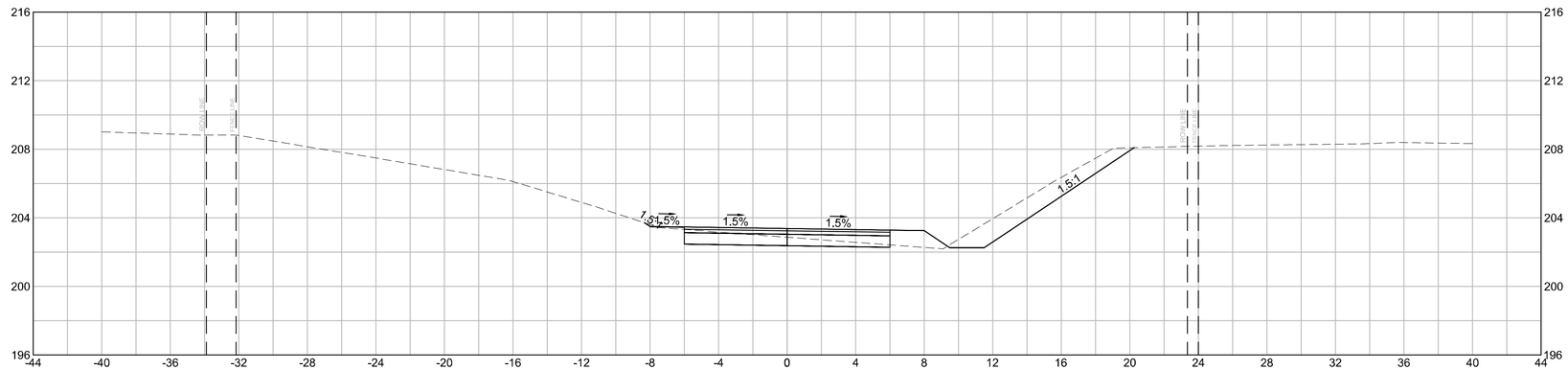
61+00



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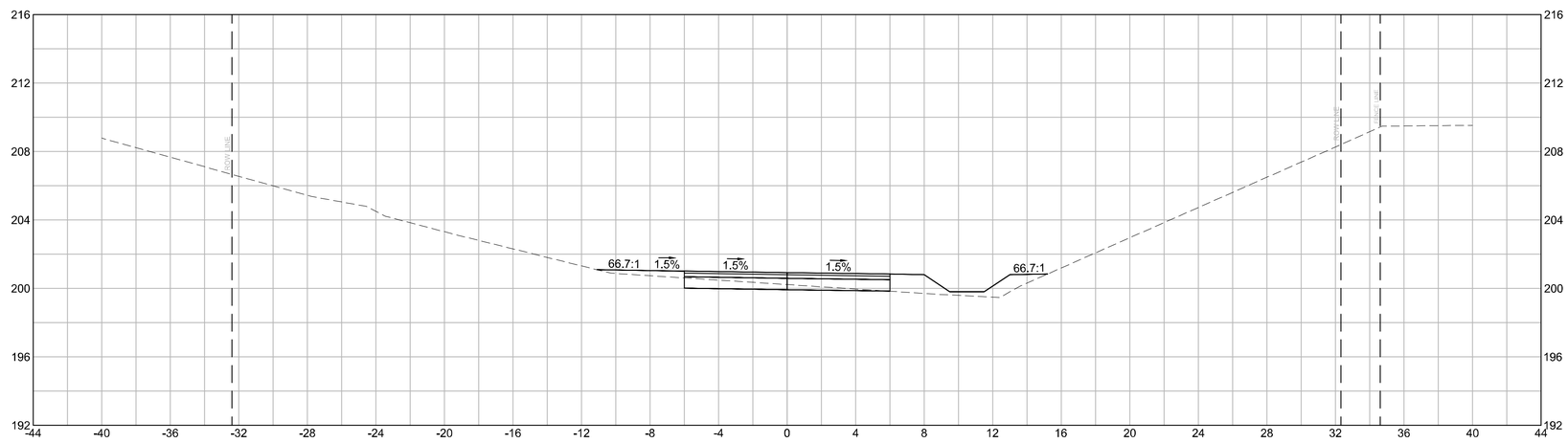


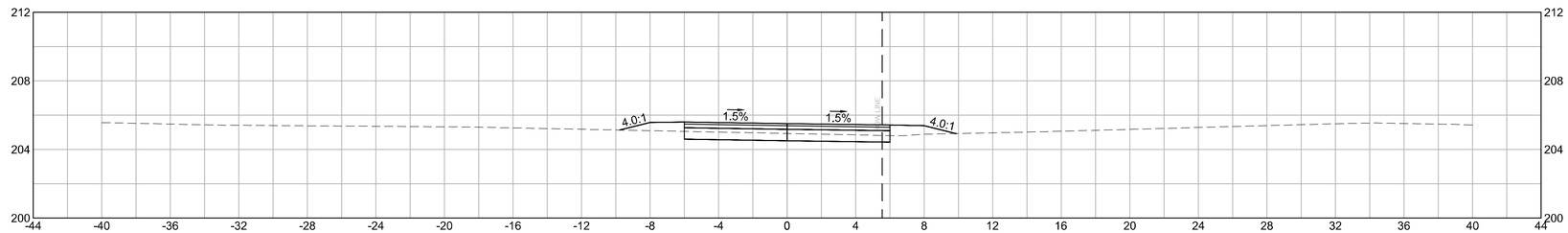
HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-		66
PROJECT FILE NO.	608157		

608157_XSECT.DWG Plotted on 23-Jul-2021 12:39 PM

69+50



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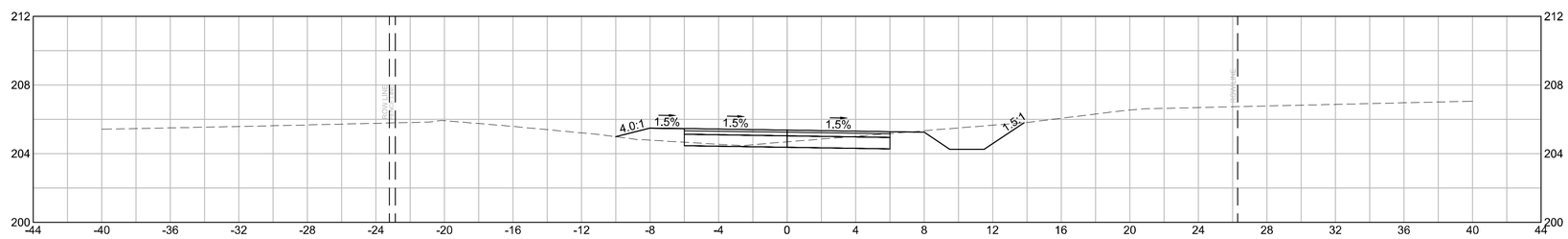

HOR. SCALE IN FEET
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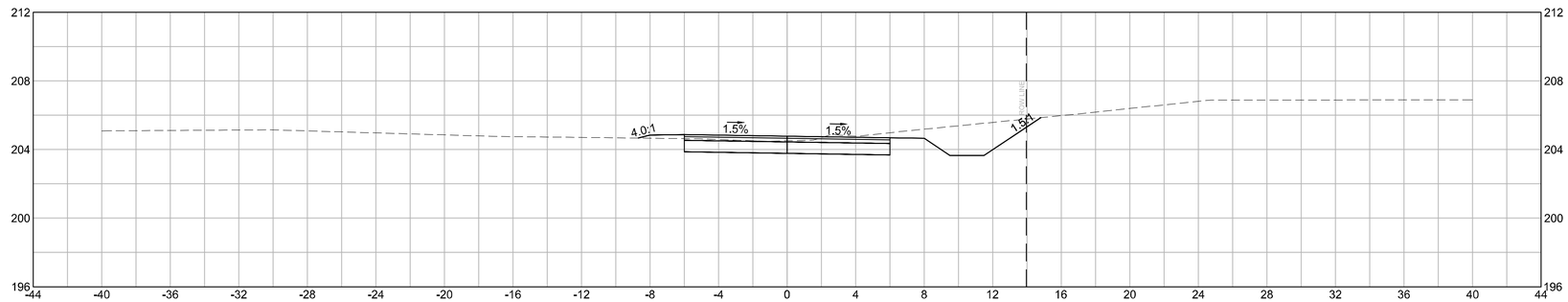
VER. SCALE IN FEET

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-		66
PROJECT FILE NO.	608157		

407+50



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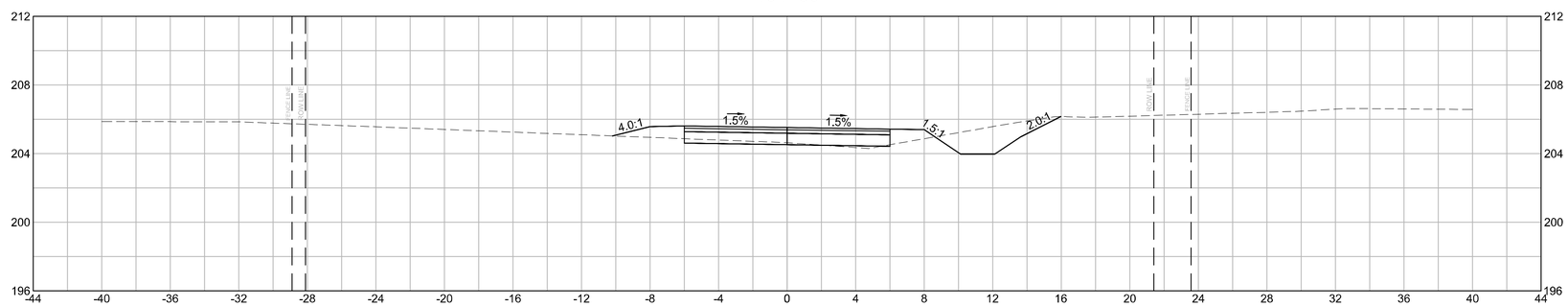

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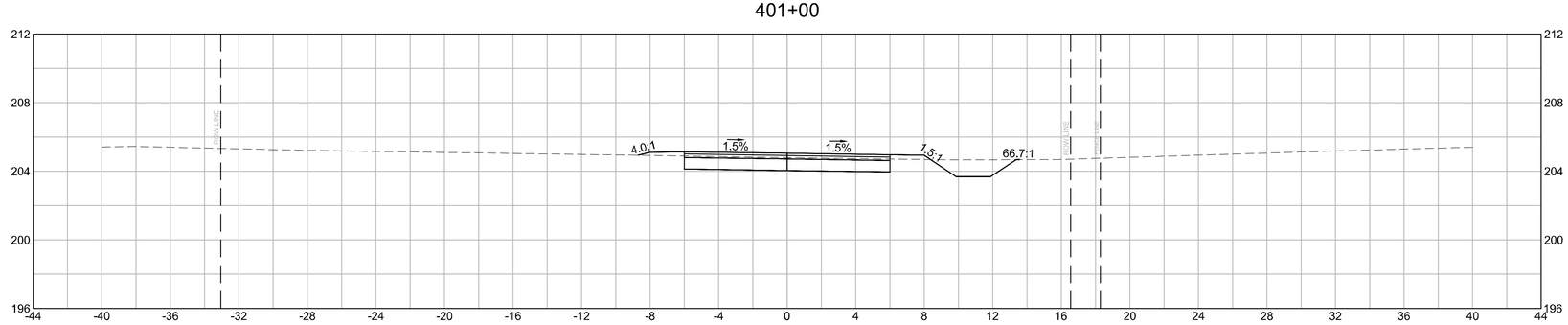

HOR. SCALE IN FEET
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VER. SCALE IN FEET

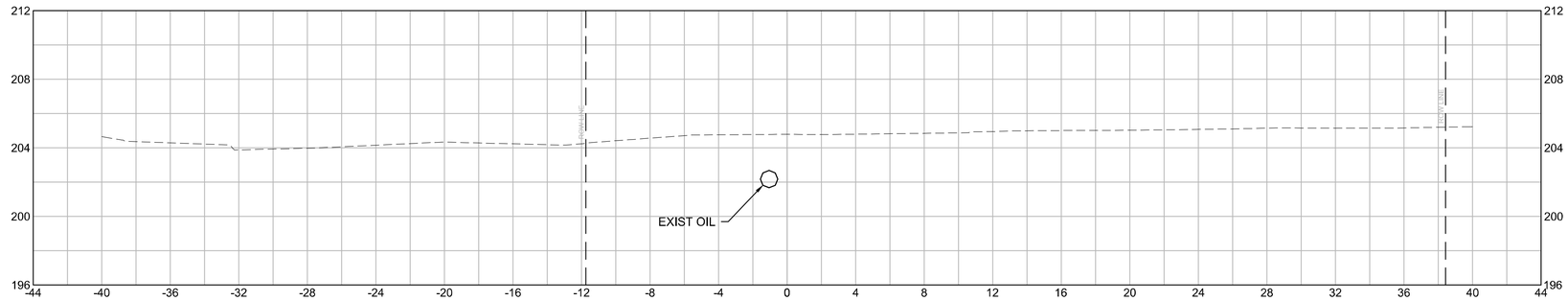
608157_XSECT.DWG Plotted on 23-Jul-2021 12:39 PM

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-		66
PROJECT FILE NO.	608157		

608157_XSECT.DWG Plotted on 23-Jul-2021 12:39 PM

415+50



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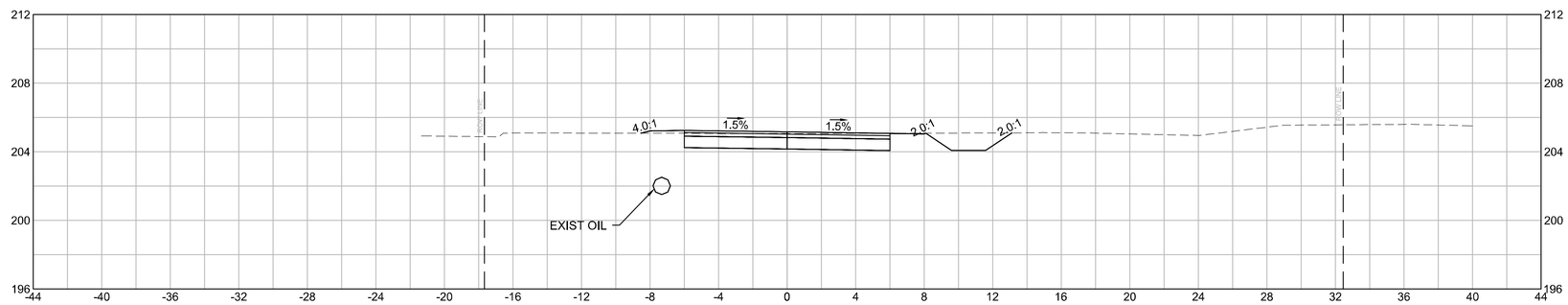

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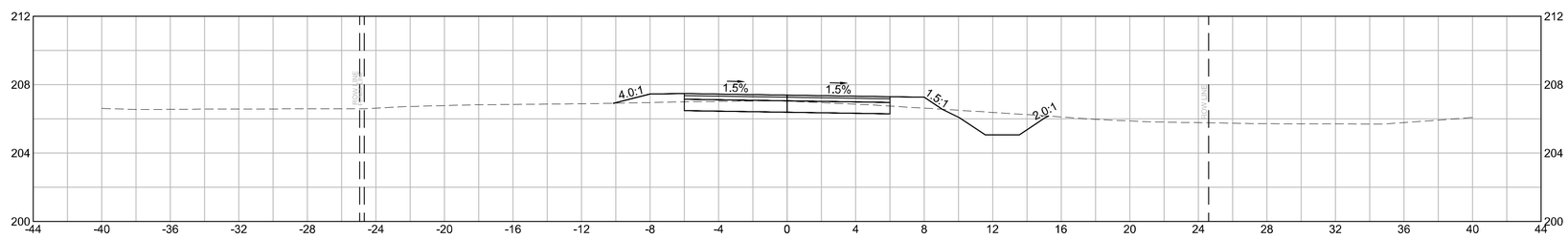
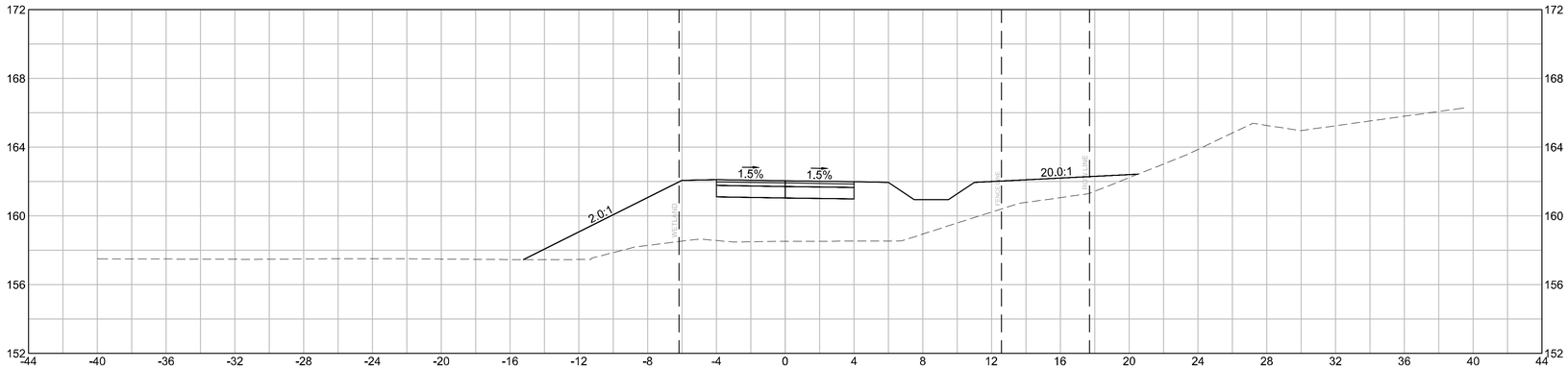


HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-		66
PROJECT FILE NO.	608157		

1+50



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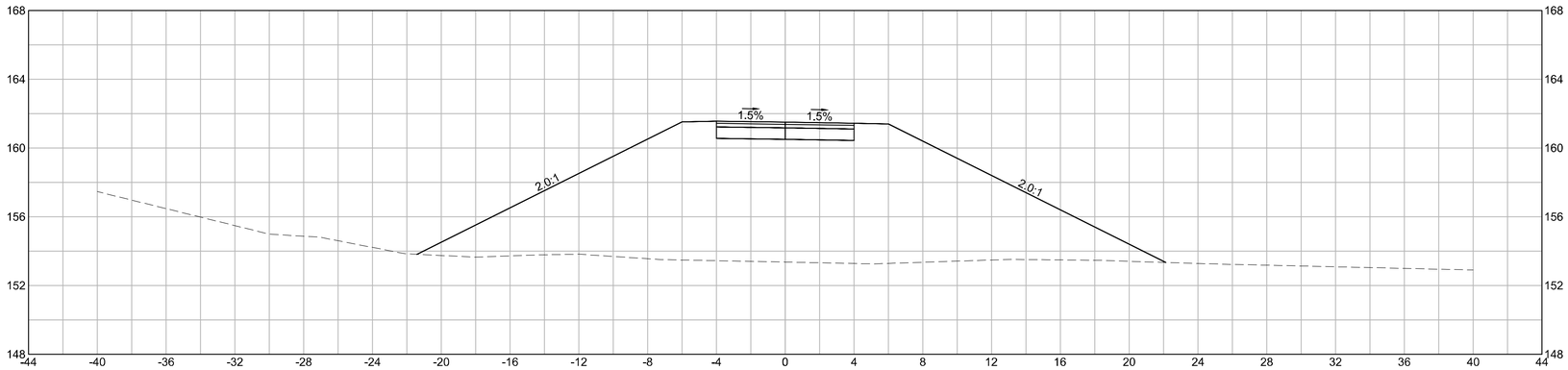


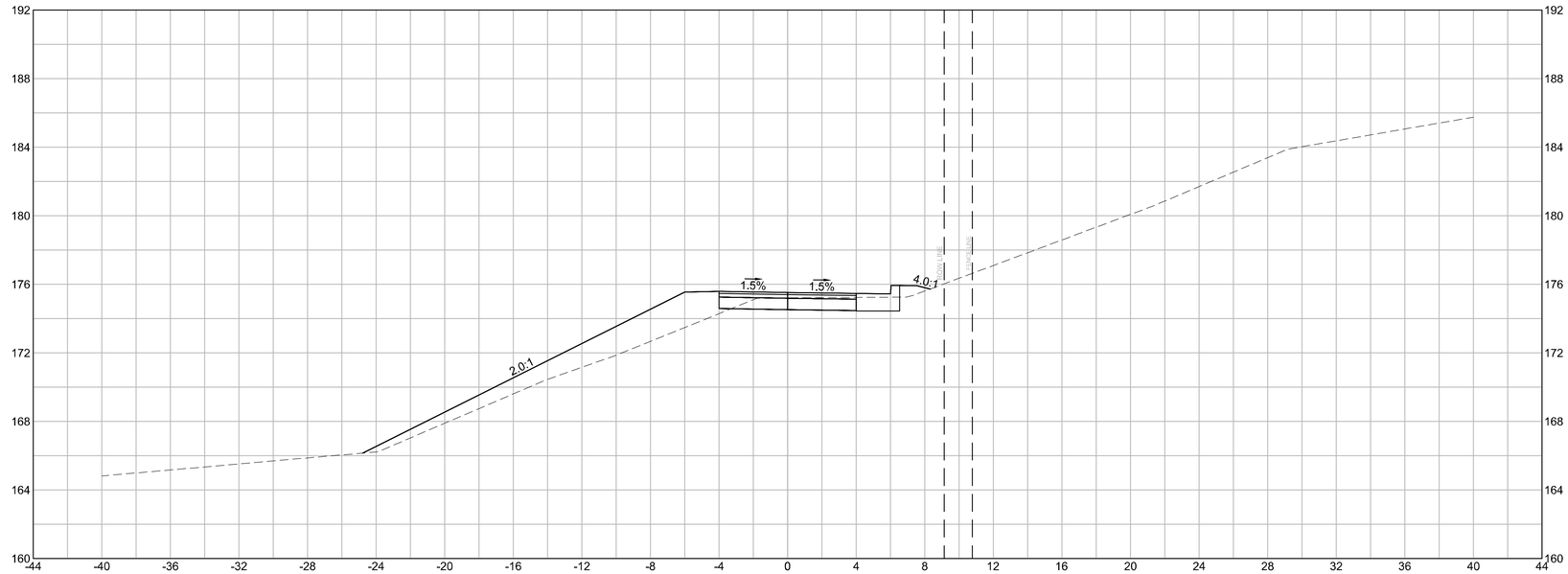
HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

608157_XSECT.DWG Plotted on 23-Jul-2021 12:39 PM

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-		66
PROJECT FILE NO.	608157		

4+00



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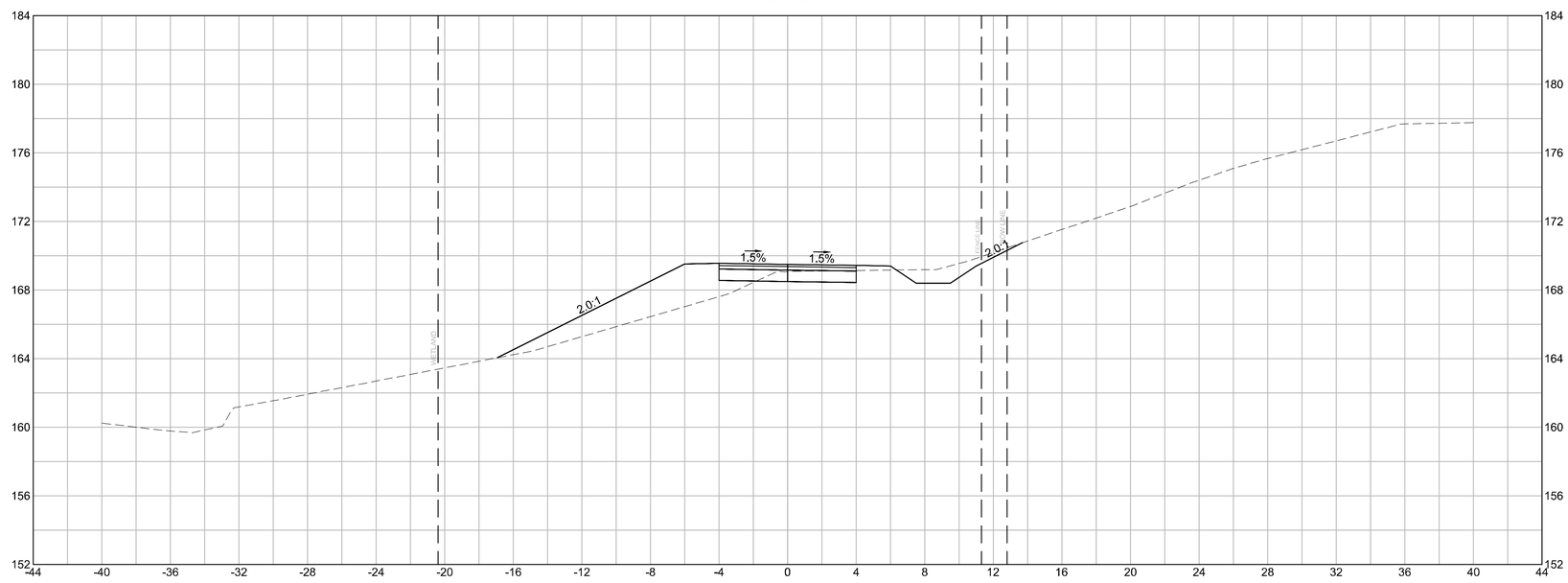

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

608157_XSECT.DWG Plotted on 23-Jul-2021 12:40 PM

SPRINGFIELD
MCKNIGHT COMMUNITY TRAIL

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-		66
PROJECT FILE NO.	608157		

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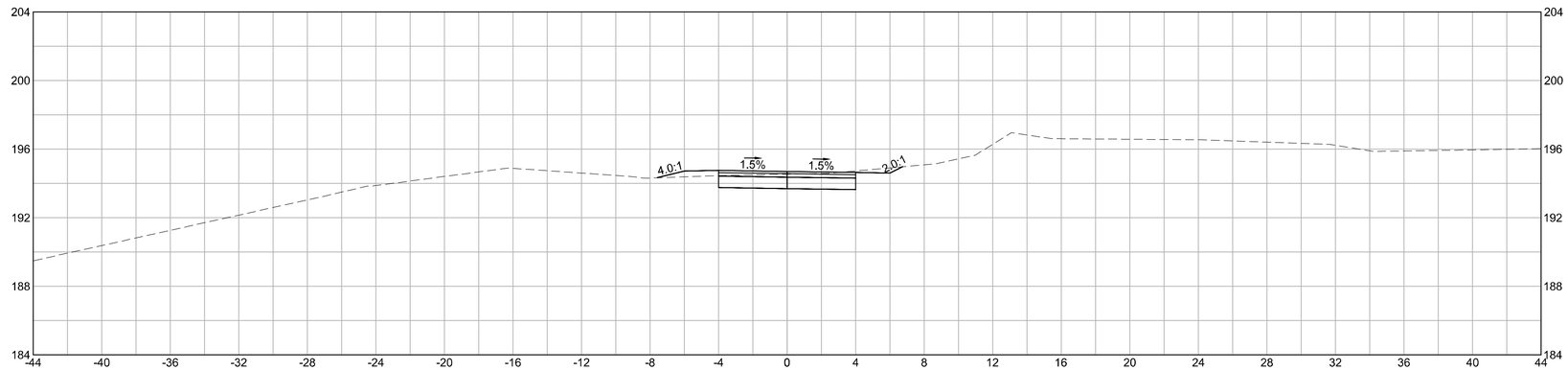
7+75



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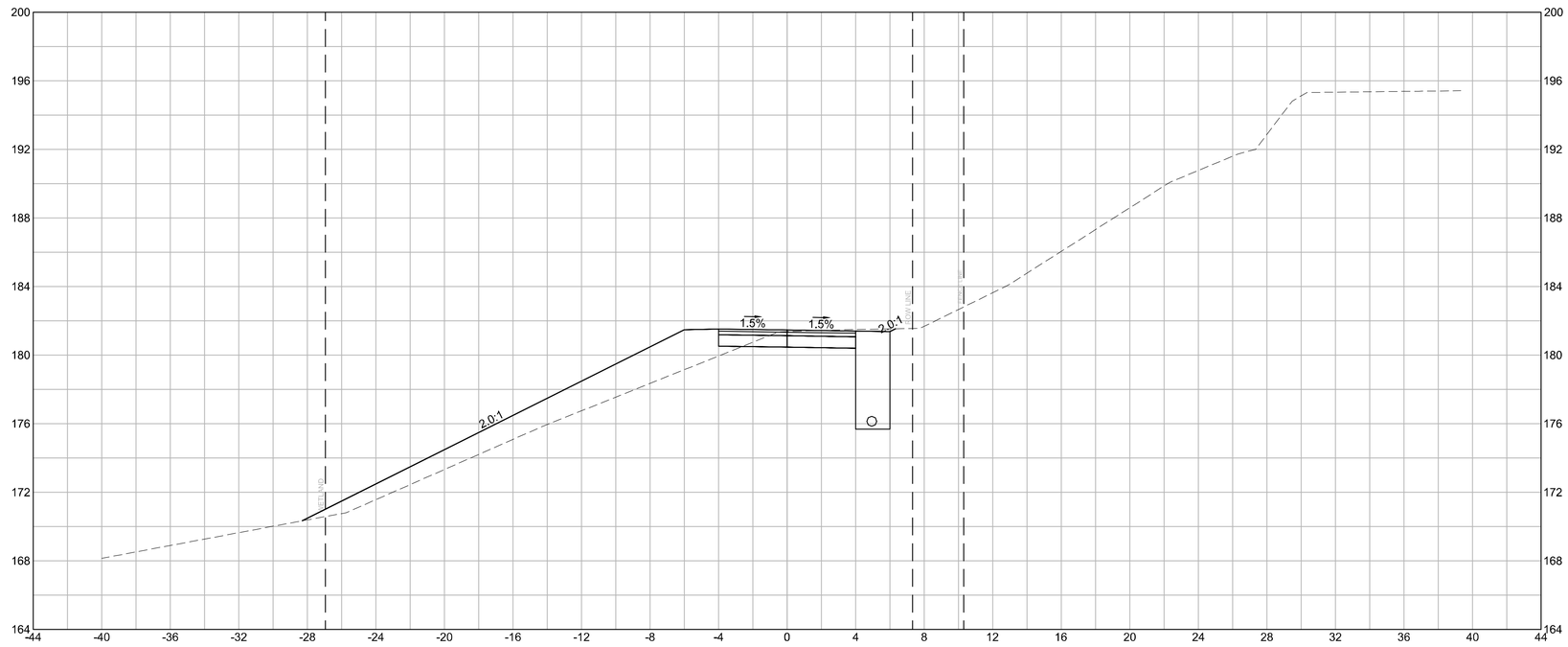

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET