PROJECT	DESIGNATION
1601147	1601147
CONTRACT	BRIDGE FILE
R-39625	- - -

INDIANA DEPARTMENT OF TRANSPORTATION

SHARED-USE PATH PLANS
MARQUETTE GREENWAY TRAIL
BURNS HARBOR, IN

DES. NO. 1601147

PROJECT DESCRIPTION:

DESIGN OF TRAIL IN THE TOWN OF BURNS HARBOR STARTING FROM STANLEY STREET TO NEAR THE INTERSECTION OF BABCOCK ROAD AND BEAM STREET, THE EAST CORPORATE BOUNDARY OF THE TOWN OF BURNS HARBOR IN SECTION 33, TOWNSHIP 37, N RANGE 6 W, WESTCHESTER TOWNSHIP, PORTER COUNTY, INDIANA.

TRAFFIC DATA	
A.A.D.T. (2010)	N/A
A.A.D.T. (PROJECTED 2022)	N/A
D.H.V. (2022)	N/A
DIRECTIONAL DISTRIBUTION	N/A
TRUCKS	N/A
DESIGN DATA	
DESIGN SPEED	15 M.P.H.
PROJECT DESIGN CRITERIA	SHARED-USE PATH
FUNCTIONAL CLASSIFICATION	SHARED-USE PATH
RURAL/URBAN	RURAL
TERRAIN	LEVEL
ACCESS CONTROL	NONE

PROJECT LOCATION SHOWN BY

GROSS PROJECT LENGTH:	1,412.11 LF
NET PROJECT LENGTH:	1,412.11 LF
MAXIMUM ELEVATION:	637.72
MINIMUM ELEVATION:	635.59
MAXIMUM GRADE:	1.73%
MINIMUM GRADE:	0.40%
LATITUDE:	41°61'69" N
LONGITUDE:	87°10'64" W

LOCATION MAP

0 500 1000
250
SCALE 1:500

STAGE 3

11-23-2021

INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2020 TO BE USED WITH THIS SET OF PLANS

TOWN OF BURNS HARBOR
REDEVELOPMENT COMMISION

ERIC HULL, RESIDENT — DATE

BRAD ENSLEN, VICE PRESIDENT — DATE

TONI BIANCARDI — DATE

RAY POPARAD — DATE

NICK LOVING — DATE

SEH of Indiana
9200 Calumet Avenue, Suite N300
Munster, Indiana 46321
Phone: 219.513.2500

PREPARED BY: SHORT ELLIOTT HENDRICKSON, INC. (219) 513-2500 PHONE

CERTIFIED BY: 11-23-2021 DATE

APPROVED FOR LETTING: DATE

BRIDGE FILE	
- - -	
DESIGNATION	
1601147	

SURVEY BOOK	SHEETS		
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CONTRACT	PROJECT		
R-39625	1601147		

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GENERAL NOTES:

1. THE CONTRACTOR SHALL PROVIDE FULL DEPTH SAW CUTS WHERE EXISTING PAVEMENT, CONCRETE OR ASPHALT IS TO BE REMOVED. THE CONTRACTOR SHALL PROVIDE ADEQUATE COMPACTED MATERIAL/GRAVEL AT SAW CUT EDGE TO SHORE UP AND PREVENT THE DEGRADATION OF THE EXISTING PAVEMENT TO REMAIN. DAMAGE TO EXISTING PAVEMENT WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
2. THE CONTRACTOR SHALL PLACE AND MAINTAIN A 6" GRAVEL BASE AT ALL PROPOSED ENTRANCES TO THE CONSTRUCTION SITE, PRIOR TO DEMOLITION.
3. EROSION CONTROL PROVISIONS SHALL BE IN PLACE PRIOR TO ALL OPERATIONS. THE CONTRACTOR SHALL FOLLOW THE TOWN'S REQUIREMENTS FOR THE PROJECT AND PRACTICES OUTLINED IN THE "INDIANA HANDBOOK FOR EROSION CONTROL IN DEVELOPING AREAS" REQUIRED FOR THE PREVENTION OF SOIL EROSION AND SEDIMENTATION WITHIN AND DOWNSTREAM OF THE CONSTRUCTION SITE. SAID PRACTICES AND REQUIREMENTS SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT.
4. CONTRACTOR SHALL COORDINATE WITH INDOT, THE TOWN OF BURNS HARBOR, AND STATE PARK OFFICIALS RELATIVE TO ALL WORK TO BE PERFORMED WITHIN THE PUBLIC RIGHT OF WAY. CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL MEASURES WITHIN PUBLIC RIGHT OF WAY AS REQUIRED.
5. ALL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO INDIANA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (IMUTCD), LATEST EDITION. AND INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND STANDARD DRAWINGS, LATEST EDITION. ANY SIGNS DAMAGED BY CONSTRUCTION SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
6. UTILITIES SHOWN ON PLANS ARE APPROXIMATE IN LOCATION AND ARE FOR INFORMATIONAL PURPOSES ONLY AND MAY NOT BE ALL INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES WHETHER IDENTIFIED BELOW AND LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE DESIGN ENGINEER.
7. THE CONTRACTOR SHALL CONFORM TO INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION YEAR 2012, FOR ALL WORK TO BE PERFORMED, UNLESS OTHERWISE SPECIFIED OR NOTED.
8. MAINTENANCE OF TRAFFIC DURING CONSTRUCTION SHALL BE PROVIDED FOR ALL PUBLIC RIGHT-OF-WAYS IN ACCORDANCE WITH INDOT STANDARD DRAWINGS AND SPECIFICATIONS. REFER TO STANDARD DRAWING NO. E 801-TCTL-07, E 801-TCLC-12, E 801-TCSN-0I, E 801 TCSN-02, E 801-TCSN-01, E 801-TCSN-05, E 801-TCSN-11, E 801-TCSN-I2, E 801-TCSN-13, E 801-TCDV-01 AND E 801-TCDV-02 FOR DETAILS.
9. TACK COAT SHALL BE APPLIED TO ALL HMA OR CONCRETE PAVEMENT BEFORE PLACEMENT OF ANY HMA MIXTURES IN ACCORDANCE WITH INDOT STANDARD SPECIFICATION SECTION 406.
10. CONTRACTOR SHALL RESTORE ALL DRIVES AND PAVEMENT TRUE TO HORIZONTAL AND VERTICAL LINES. THE SECTION REMOVED SHALL BE REPLACED TO ITS ORIGINAL CONDITION WHERE INDICATED ON THE PLANS OR BETTER OR AS STATED BY THESE PLANS AND SPECIFICATIONS. ANY DRIVE OR PAVING OUTSIDE THE CONSTRUCTION AREA DAMAGED BY CONSTRUCTION PRACTICES SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
11. WHEN EXCAVATING NEAR UTILITIES, CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORTING, BRACING OR SHORING AS REQUIRED TO PREVENT DAMAGE TO THE UTILITIES.
12. CONTRACTOR SHALL RESTORE ALL AFFECTED SITE CONDITIONS TO THEIR ORIGINAL CONDITION OR BETTER AFTER COMPLETION OF THE WORK. GRASS REQUIRING REPLACEMENT THROUGHOUT THE PROJECT SHALL BE SEEDED PER THE SPECIFICATIONS. ANY DITCH AFFECTED BY THE CONSTRUCTION SHALL BE RE-ESTABLISHED TO ITS ORIGINAL LINE AND GRADE.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEWATERING. WATER REMOVED BY DEWATERING EQUIPMENT SHALL NOT BE DISPOSED OF INTO SANITARY OR STORM SEWERS WITHOUT WRITTEN APPROVAL BY THE TOWN OF BURNS HARBOR, BOARD OF PUBLIC WORKS.
14. WHERE SANITARY MANHOLES ARE LOCATED OUTSIDE OF PAVED AREAS, CONTRACTOR SHALL GRADE AROUND EACH CASTING SO THAT SURFACE WATER SHALL NOT DRAIN INTO OR OVER THE STRUCTURE.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE HEALTH AND SAFETY OF HIS EMPLOYEES AND THE SUBCONTRACTORS PER OSHA REGULATIONS AND ANY OTHER ORGANIZATION HAVING JURISDICTION.
16. CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID FOR WORK. BY SUBMITTING A BID, THE CONTRACTOR INDICATES THAT HE HAS VISITED THE SITE AND IS AWARE OF ALL EXISTING CONDITIONS.
17. NO OPEN TRENCHES WILL BE ALLOWED IN THE EVENING AFTER DAILY CONSTRUCTION OPERATIONS HAVE FINISHED, EXCEPT IN THE AREA OF THE TRENCHING BOX. CONTRACTOR TO PROVIDE CONSTRUCTION FENCING AND NECESSARY WARNING SIGNAGE AROUND TRENCHING BOX AREA FOR PUBLIC SAFETY.
18. CONTRACTOR SHALL NOTIFY THE TOWN OF BURNS HARBOR ENGINEER'S OFFICE AND PUBLIC WORKS OFFICE 48 HOURS PRIOR TO THE INSTALLATION OF THE CONNECTION TO THE EXISTING STRUCTURE/PIPING.
19. THE CONTRACTOR SHALL CLEAR AND GRUB ALL NON-PAVEMENT AREAS LOCATED WITHIN THE CONSTRUCTION LIMITS IN ACCORDANCE WITH THE SPECIFICATIONS INCLUDING THE REMOVAL OF ALL TREES OF ALL DIAMETERS, SHRUBS, BUSHES AND MISCELLANEOUS DEBRIS NOT CALLED OUT TO BE PROTECTED ON THE PLANS.
20. CONTACT THE TOWN OF BURNS HARBOR ENGINEER'S OFFICE OR PUBLIC WORKS OFFICE FOR SANITARY SEWER, ROADWAY LIGHTING, TRAFFIC SIGNAL AND STORM SEWER INFORMATION.
21. CONTRACTOR SHALL MAINTAIN ALL ROADWAY LIGHTING AND TRAFFIC SIGNALS INSTALLED UNDER THIS CONTRACT UNTIL FINAL ACCEPTANCE. RESPONSE TO MAINTENANCE CALLS SHALL BE MADE WITHIN TWO HOURS OR LESS, SEVEN DAYS A WEEK, TWENTY-FOUR HOURS PER DAY.
22. CONTRACTOR SHALL PERFORM ALL WORK WITHIN REASONABLE WORK HOURS (7:00 AM TO 7:00 PM) MONDAY THROUGH SATURDAY. CONTRACTOR SHALL NOT WORK ON HOLIDAYS IDENTIFIED IN INDOT SPECIFICATION SECTION 101.23. DEVIATIONS IN WORK SCHEDULE SHALL BE APPROVED IN WRITING BY THE TOWN ENGINEER, OR PUBLIC WORKS DIRECTOR
23. ALL EXISTING LIGHTING SHALL REMAIN OPERABLE UNTIL NEW LIGHTING IS INSTALLED AND OPERABLE.
24. MAINTAIN ROADWAY SIGNAGE DURING CONSTRUCTION.
25. ACCESS TO ALL RESIDENCES AND COMMERCIAL FACILITIES SHALL BE MAINTAINED AT ALL TIMES.
26. MAINTAIN TRAFFIC CONTROL AND MAINTENANCE OF TRAFFIC MEASURES AT ALL TIMES.
27. ALL RADII DIMENSIONS ARE FROM EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
28. CONTRACTOR SHALL VERIFY ALL BENCHMARK ELEVATIONS WITH A CLOSED LEVEL CIRCUIT PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE SURVEY CONTROL WITH ENGINEER PRIOR TO LAYOUT.
29. CONTRACTOR SHALL PROVIDE TO THE OWNER, AS-BUILT DRAWINGS SHOWING ALL DEVIATIONS FROM PLAN INCLUDING BUT NOT LIMITED TO LOCATION, ELEVATION, COLOR OR TYPE. IF A PARTICULAR SHEET OR PLAN HAS NO DEVIATION, CONTRACTOR SHALL SUBMIT THE PLAN AND LABEL "NO DEVIATION FROM PLAN." ALL AS-BUILTS SHALL BE SIGNED AND STAMPED BY THE CONTRACTOR'S NAME AND LOGO.
30. ENGINEER WILL SUPPLY CONTRACTOR BENCHMARK AND HORIZONTAL AND VERTICAL CONTROL IN CAD FORMAT FOR LAYOUT PURPOSES.

SHEET INDEX

SHEET NO.	DESIGNATION
1	TITLE SHEET
2	INDEX & GENERAL NOTES
3	TYPICAL CROSS SECTIONS
4	ALIGNMENT PLAN
5-8	PLAN AND PROFILES
9	PAVEMENT QUANTITIES AND APPROACH TABLE
10	CONSTRUCTION DETAILS
11-12	EROSION CONTROL PLANS
13	STORM WATER POLLUTION PREVENTION PLAN
14-16	CROSS SECTIONS

16 TOTAL SHEETS IN THIS PLAN SET

REVISIONS

SHEET NO.	DATE	RVISED

LEGEND

- (K) HMA FOR SIDEWALKS CONSISTING OF: 140 #/SYS HMA SURFACE, TYPE A, 1.27" ON 220 #/SYS HMA INTERMEDIATE, TYPE A, 2" ON 6" COMPACTED AGGREGATE IN NO. 53, BASE, ON SUBGRADE TREATMENT TYPE III
- (K1) HMA FOR APPROACHES CONSISTING OF: 165 #/SYS HMA SURFACE, TYPE A, 1.5" ON 275 #/SYS HMA INTERMEDIATE, TYPE A, 2.5" ON 6" COMPACTED AGGREGATE IN NO. 53, BASE, ON SUBGRADE TREATMENT TYPE III
- (CR) CONCRETE CURB RAMP
- (C) 9 IN. PCCP FOR APPROACHES ON SUBGRADE TREATMENT, TYPE II
- (27) 4" TOPSOIL & SEEDING (REESTABLISH DISTURBED AREAS)
- (BW) BOARDWALK
- (SR) SPLIT RAIL FENCE (SEE DETAIL 2/10)

UTILITIES

GAS & ELECTRIC
Northern Indiana Public Service
2755 Raystone Dr
Valparaiso, IN 46383
(219) 647.4299
utilitycoordination@nisource.com

WASTE WATER
Burns Harbor Sanitation Department
1240 N. Boo Rd
Burns Harbor, IN 46304
(219) 787.1165

WATER
Indiana American Water
650 Madison St
Gary, IN 46402
(317) 885.2404
inutilitycoordination@amwater.com

PIPELINE
BP Pipelines
Attn: Blake Patrick
Land and Right of Way Department
30 S Wacker Drive 10th Floor
Chicago, IL 60606
(872) 245-3915

CABLE TV
Comcast North
16 West 84th Drive
Merrillville, IN 46410
(630) 288.7261

TELEPHONE
Frontier Communications
8001 West Jefferson Blvd
Fort Wayne, IN 46804
(260) 428.8582

COMMUNICATIONS
Centurlink
(877) 366.8344 ext 2
Nationalrelo@centurylink.com

Verizon
400 Inernation Pkwy
Richardson, TX 75081
(469) 886.4238
investigations@verizon.com

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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 11-23-2021 DATE

DESIGNED: JLS DRAWN: RSP

CHECKED: XXX CHECKED: XXX

INDIANA DEPARTMENT OF TRANSPORTATION

INDEX & GENERAL NOTES
MARQUETTE GREENWAY TRAIL

HORIZONTAL SCALE	BRIDGE FILE
- - -	- - -
VERTICAL SCALE	DESIGNATION
- - -	1601147

SURVEY BOOK	SHEETS
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CONTRACT	PROJECT
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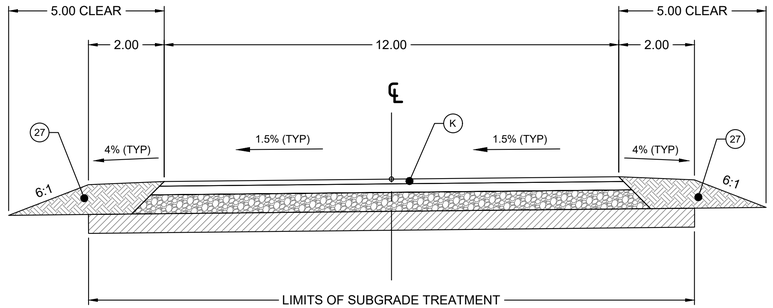

TYPICAL MULTI-USE TRAIL SECTION

LINE "A" - STA. 99+47.44 - STA. 113+59.60

(K) HMA FOR SIDEWALKS CONSISTING OF:
140 #/SYS HMA SURFACE, TYPE A, 1.27" ON
220 #/SYS HMA INTERMEDIATE, TYPE A, 2" ON
6" COMPACTED AGGREGATE IN NO. 53, BASE, ON
SUBGRADE TREATMENT TYPE III

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(BW) BOARDWALK

(SR) SPLIT RAIL FENCE (SEE DETAIL 2/10)

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INDIANA DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
MARQUETTE GREENWAY TRAIL

HORIZONTAL SCALE	BRIDGE FILE
1"=2'	- - -
VERTICAL SCALE	DESIGNATION
1"=2'	1601147

SURVEY BOOK	SHEETS
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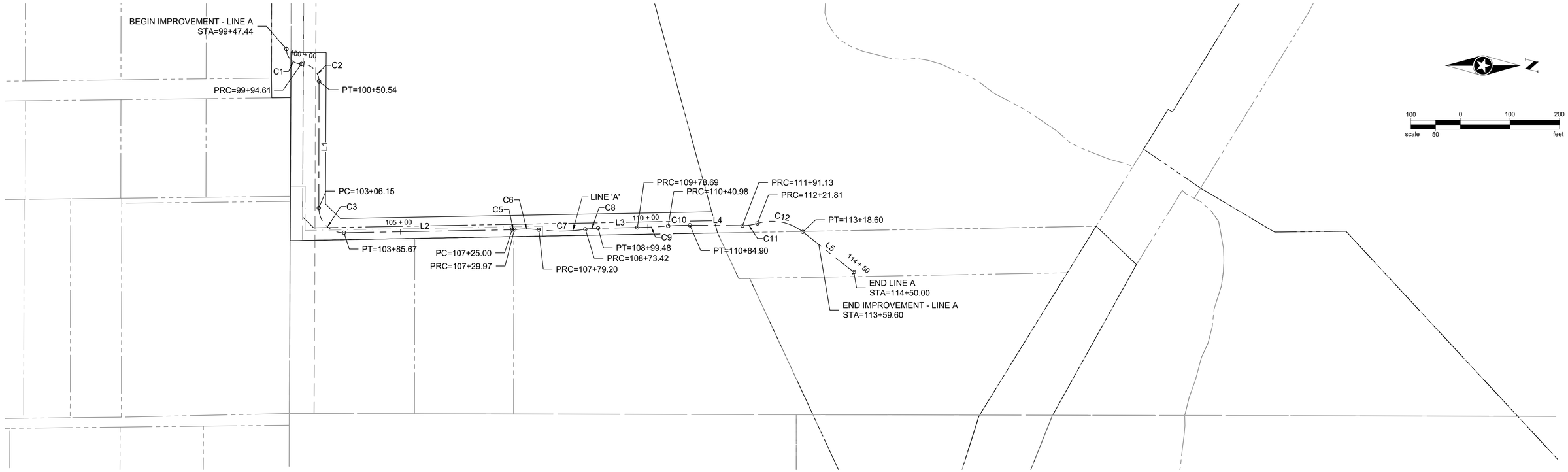

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S89° 54' 16"E	255.60'
L2	N01° 01' 56"W	339.33'
L3	N01° 01' 57"W	79.21'
L4	N00° 25' 53"E	106.23'
L5	N38° 18' 16"E	131.40'

CURVE TABLE: ALIGNMENTS										
CURVE	P.I.	RADIUS	TANGENT	LENGTH	DELTA	E	TANGENT BACK	TANGENT FORWARD	P.C.	P.T.
C1	STA 99+77.91 LINE 'A'	30.00'	30.47'	47.59'	090°52'53"	12.76'	S 89° 54' 16" E	N 00° 47' 09" W	STA 99+47.44	STA 99+95.03
C2	STA 100+30.57 LINE 'A'	35.00'	35.54'	55.52'	090°52'53"	14.88'	N 00° 47' 09" W	S 89° 54' 16" E	STA 99+95.03	STA 100+50.54
C3	STA 103+57.14 LINE 'A'	50.00'	50.99'	79.52'	091°07'40"	21.42'	S 89° 54' 16" E	N 01° 01' 56" W	STA 103+06.15	STA 103+85.67
C5	STA 107+27.49 LINE 'A'	50.00'	2.49'	4.97'	005°41'32"	0.06'	N 01° 01' 56" W	N 06° 43' 29" W	STA 107+25.00	STA 107+29.97
C6	STA 107+54.71 LINE 'A'	200.00'	24.74'	49.23'	014°06'17"	1.52'	N 06° 43' 29" W	N 07° 22' 48" E	STA 107+29.97	STA 107+79.20
C7	STA 108+26.61 LINE 'A'	340.00'	47.41'	94.22'	015°52'38"	3.29'	N 07° 22' 48" E	N 08° 29' 50" W	STA 107+79.20	STA 108+73.42
C8	STA 108+86.47 LINE 'A'	200.00'	13.05'	26.06'	007°27'53"	0.43'	N 08° 29' 50" W	N 01° 01' 57" W	STA 108+73.42	STA 108+99.48
C9	STA 110+09.84 LINE 'A'	1000.00'	31.16'	62.29'	003°34'09"	0.49'	N 01° 01' 57" W	N 04° 36' 05" W	STA 109+78.69	STA 110+40.98
C10	STA 110+62.95 LINE 'A'	500.00'	21.97'	43.92'	005°01'58"	0.48'	N 04° 36' 05" W	N 00° 25' 53" E	STA 110+40.98	STA 110+84.90
C11	STA 112+06.59 LINE 'A'	100.00'	15.46'	30.69'	017°34'53"	1.19'	N 00° 25' 53" E	N 17° 09' 00" W	STA 111+91.13	STA 112+21.81
C12	STA 112+74.37 LINE 'A'	100.00'	52.56'	96.79'	055°27'16"	12.97'	N 17° 09' 00" W	N 38° 18' 16" E	STA 112+21.81	STA 113+18.60

SEH of Indiana
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DESIGN ENGINEER DATE

DESIGNED: JLS DRAWN: RSP
CHECKED: XXX CHECKED: XXX

INDIANA DEPARTMENT OF TRANSPORTATION

ALIGNMENT PLAN
MARQUETTE GREENWAY TRAIL

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	- - -
VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEETS
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CONTRACT	PROJECT
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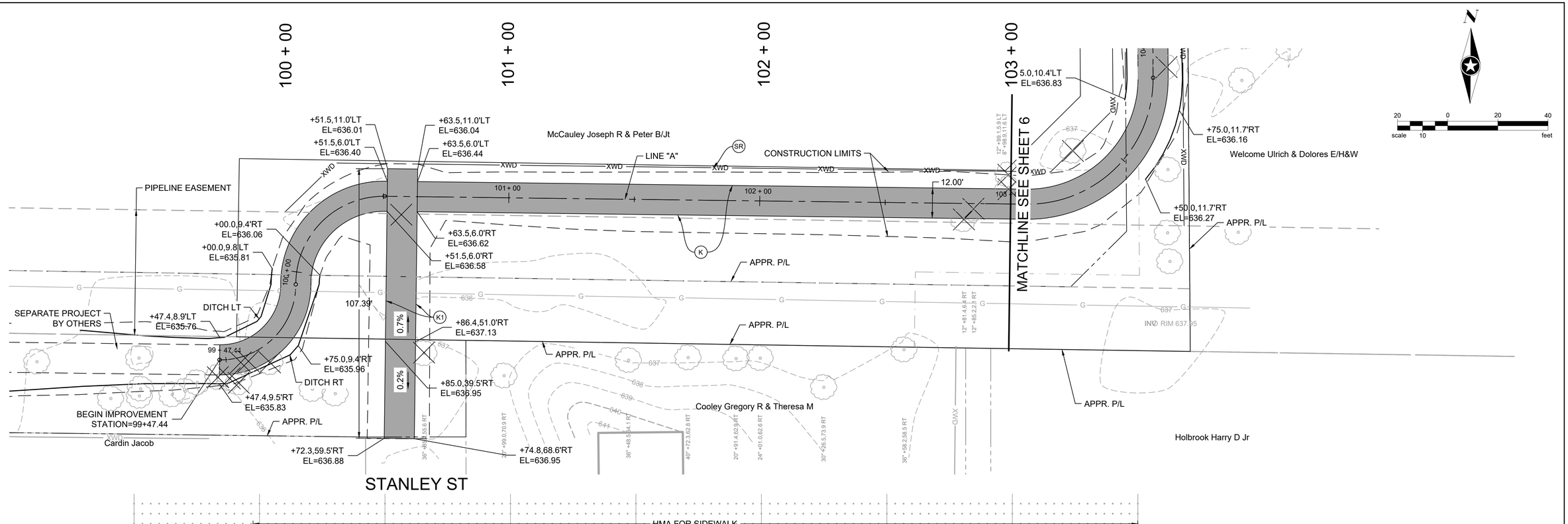

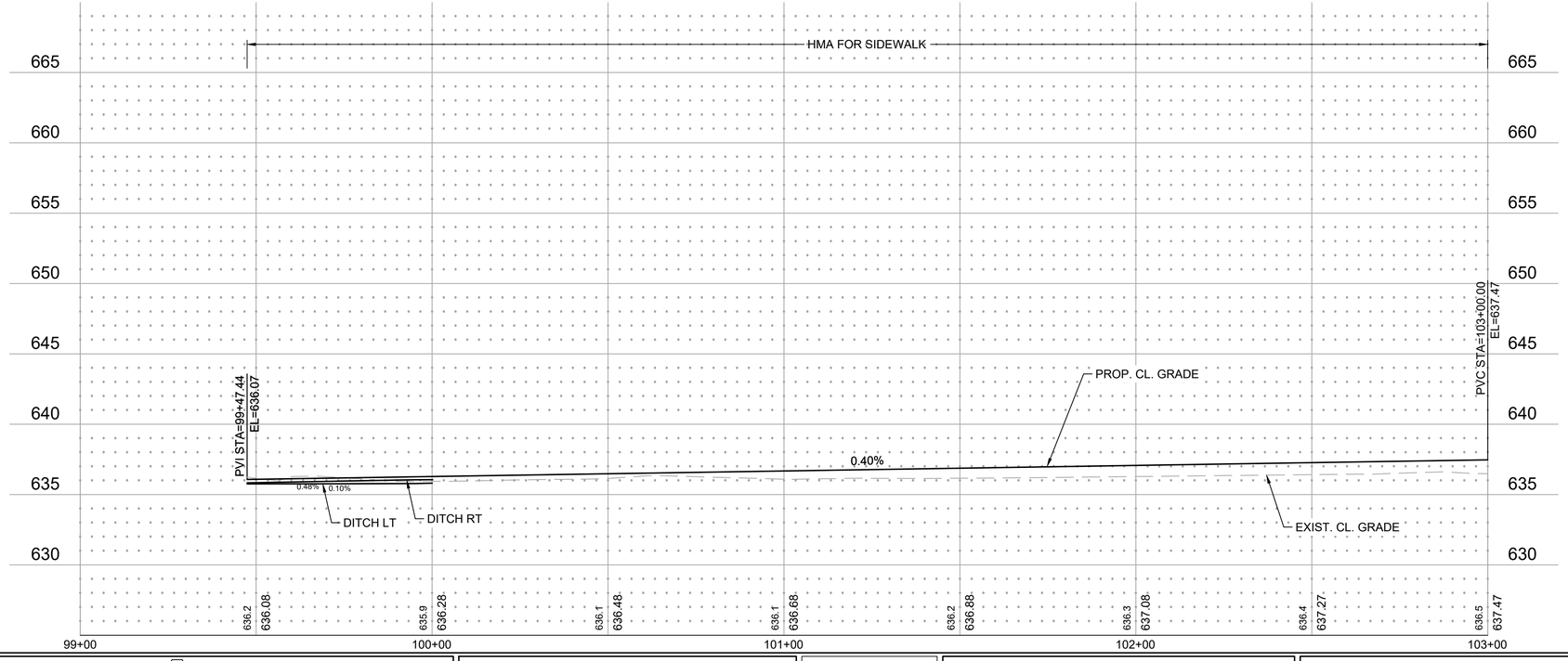

(K) HMA FOR SIDEWALKS CONSISTING OF:
140 #/SYS HMA SURFACE, TYPE A, 1.27" ON
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(27) 4" TOPSOIL & SEEDING (REESTABLISH DISTURBED AREAS)

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PLAN AND PROFILE - STA. 99+47.44 to 103+00
MARQUETTE GREENWAY TRAIL

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1"=20'	- - -
VERTICAL SCALE	DESIGNATION
1"=5'	1601147

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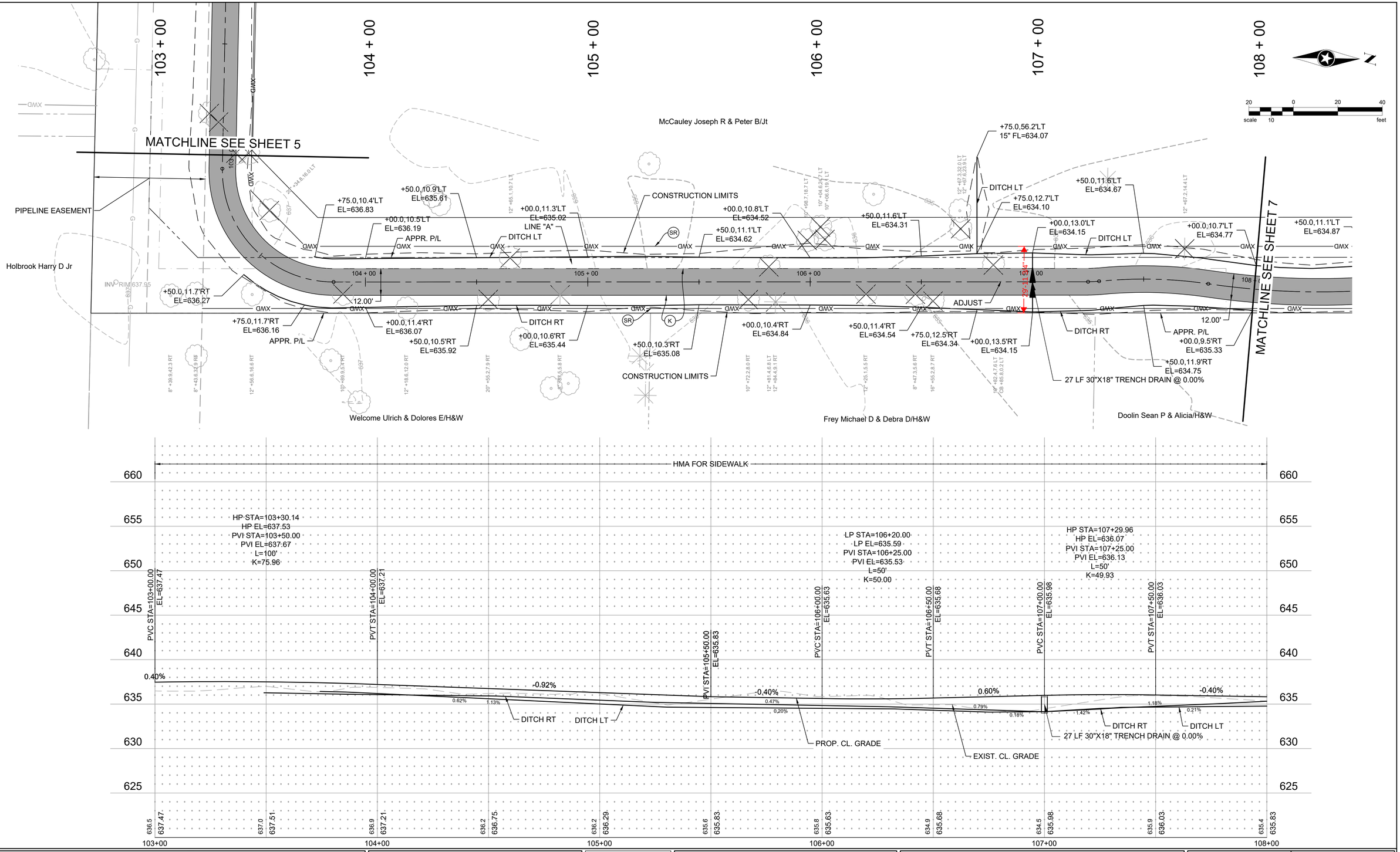

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PLAN AND PROFILE - STA. 103+00 to 108+00
MARQUETTE GREENWAY TRAIL

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	- - -
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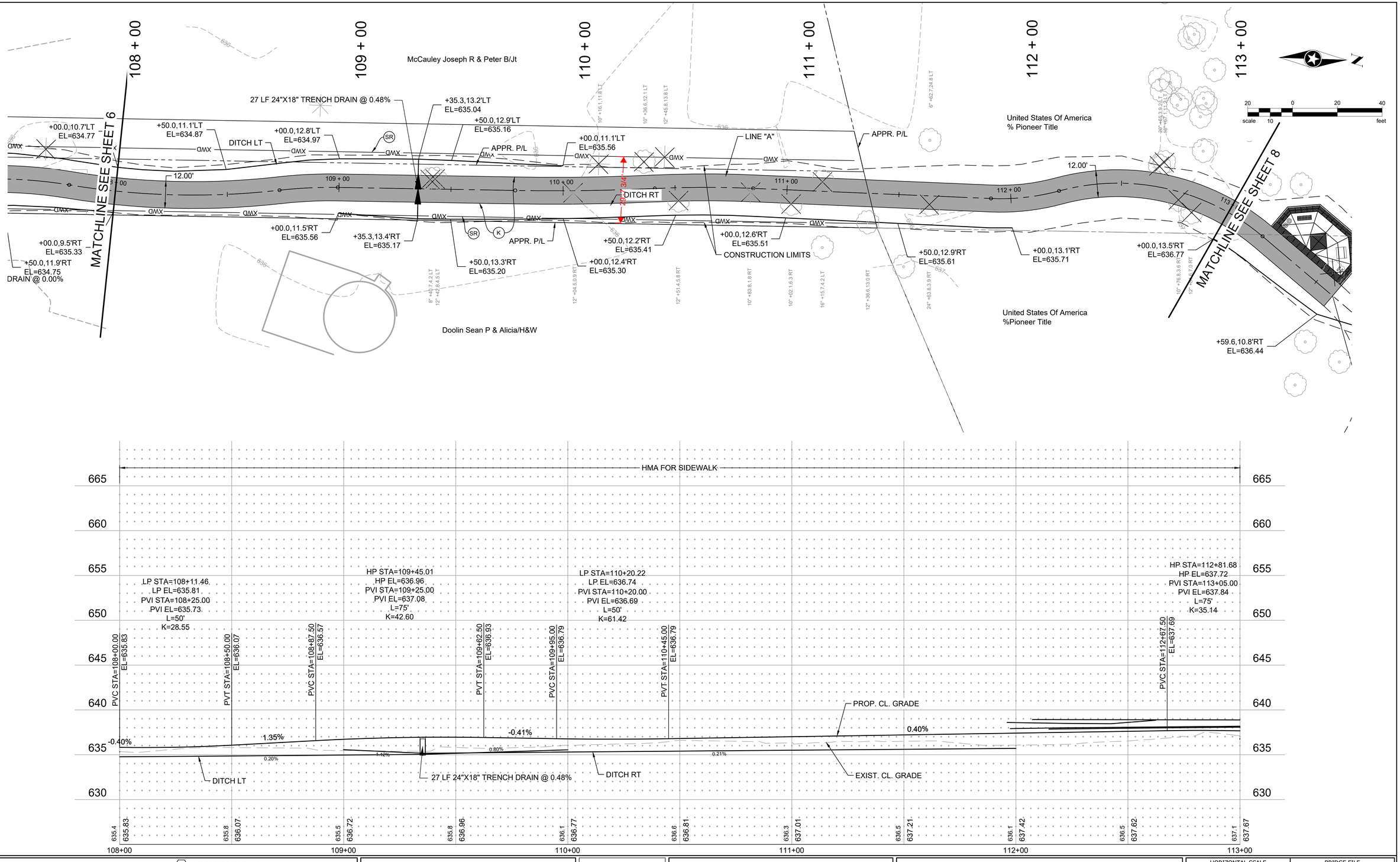

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275 #/SYS HMA INTERMEDIATE, TYPE A, 2.5" ON
6" COMPACTED AGGREGATE IN NO. 53, BASE, ON
SUBGRADE TREATMENT TYPE III

(CR) CONCRETE CURB RAMP

(C) 9 IN. PCCP FOR APPROACHES ON SUBGRADE TREATMENT, TYPE II

(27) 4" TOPSOIL & SEEDING (REESTABLISH DISTURBED AREAS)

(BW) BOARDWALK

(SR) SPLIT RAIL FENCE (SEE DETAIL 2/10)

SEH of Indiana
9200 Calumet Avenue, Suite N300
Munster, Indiana 46321
Phone: 219.513.2500

RECOMMENDED FOR APPROVAL _____ 11-23-2021
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CHECKED: XXX CHECKED: XXX

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE - STA. 108+00 to 113+00
MARQUETTE GREENWAY TRAIL

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	- - -
VERTICAL SCALE	DESIGNATION
1"=5'	1601147
SURVEY BOOK	SHEETS
- - -	7 of 16
CONTRACT	PROJECT
R-39625	1601147

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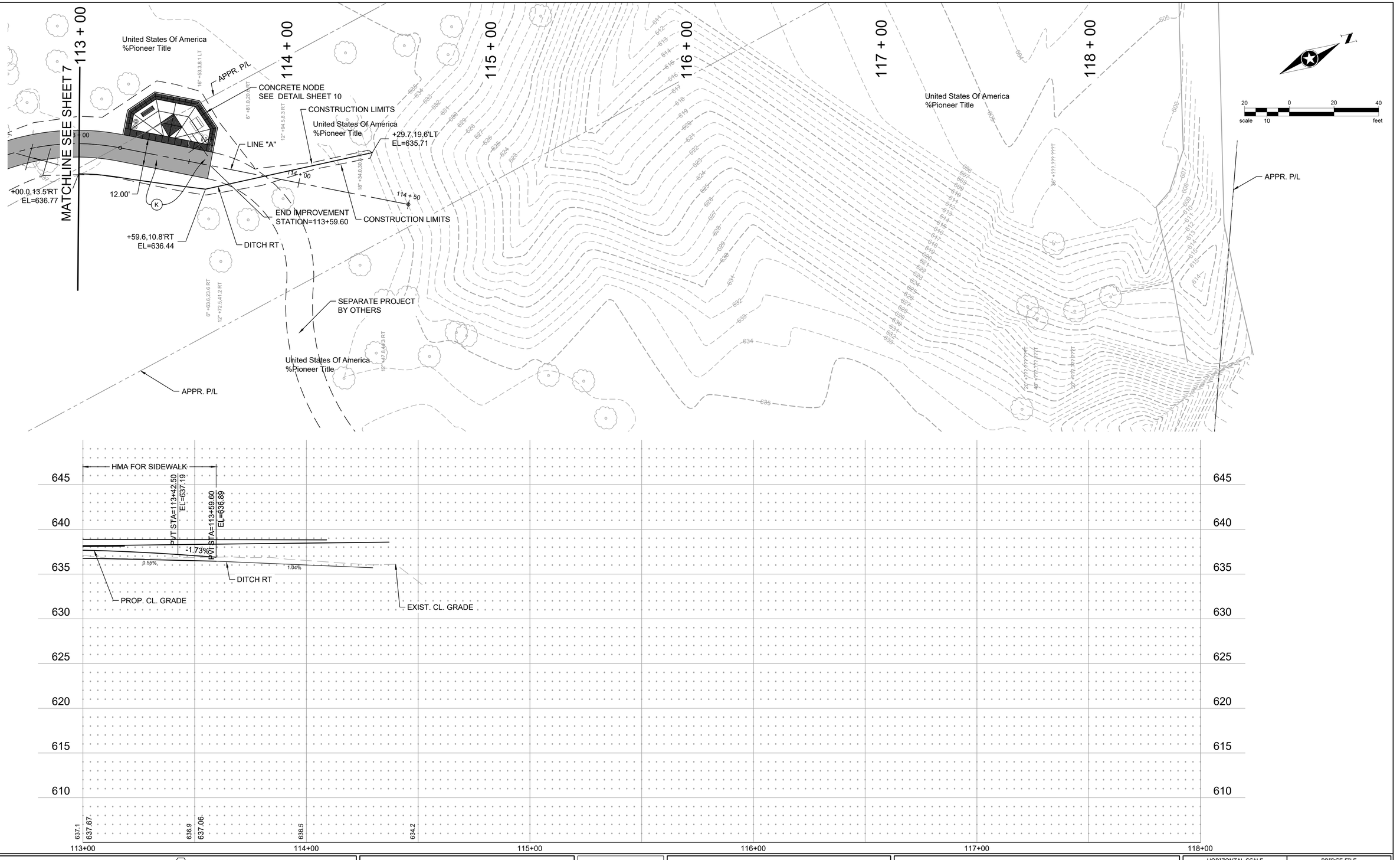

(K) HMA FOR SIDEWALKS CONSISTING OF:
140 #/SYS HMA SURFACE, TYPE A, 1.27" ON
220 #/SYS HMA INTERMEDIATE, TYPE A, 2" ON
6" COMPACTED AGGREGATE IN NO. 53, BASE, ON
SUBGRADE TREATMENT TYPE III

(K1) HMA FOR APPROACHES CONSISTING OF:
165 #/SYS HMA SURFACE, TYPE A, 1.5" ON
275 #/SYS HMA INTERMEDIATE, TYPE A, 2.5" ON
6" COMPACTED AGGREGATE IN NO. 53, BASE, ON
SUBGRADE TREATMENT TYPE III

(CR) CONCRETE CURB RAMP
(C) 9 IN. PCCP FOR APPROACHES ON SUBGRADE TREATMENT, TYPE II
(27) 4" TOPSOIL & SEEDING (REESTABLISH DISTURBED AREAS)
(BW) BOARDWALK
(SR) SPLIT RAIL FENCE (SEE DETAIL 2/10)

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INDIANA DEPARTMENT OF TRANSPORTATION

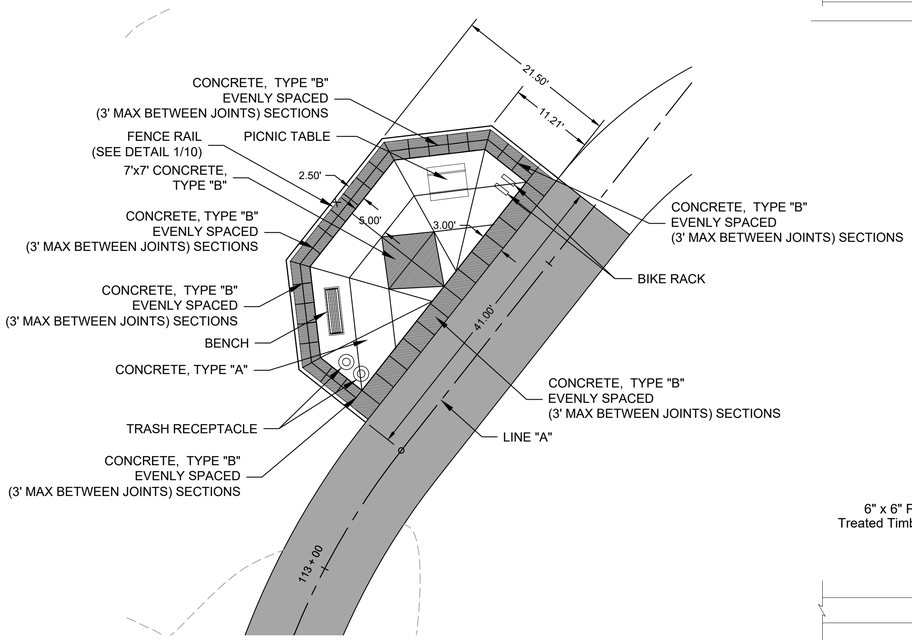
PLAN AND PROFILE - STA. 113+00 to 118+00
MARQUETTE GREENWAY TRAIL

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	- - -
VERTICAL SCALE	DESIGNATION
1"=5'	1601147

SURVEY BOOK	SHEETS
- - -	8 of 16
CONTRACT	PROJECT
R-39625	1601147

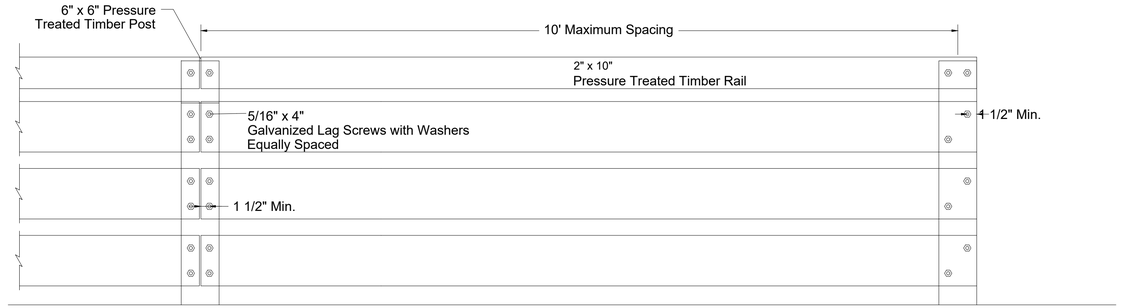
PAVEMENT QUANTITIES AND APPROACH TABLE

LOCATION		DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII	SURFACE BEYOND R/W LINE			EXCAVATION		HMA FOR SIDEWALK		SIDEWALK, CONCRETE 4"	SIDEWALK, CONCRETE, DECORATIVE	SAWCUT	MILLING		HMA FOR ROADWAY		HMA FOR APPROACHES			PATCH, FULL DEPTH HMA PAVEMENT, TYPE B	SEAL COAT, TYPE	TACK COAT	PATCH, FULL DEPTH HMA PAVEMENT, TYPE C	COMPACTED AGGREGATE FOR BASE NO. 53		COMPACTED AGGREGATE FOR SHOULDER NO. 53	SUBGRADE TREATMENT		RIBBON CURB, CONCRETE, 12 IN.	CURB AND GUTTER, CONCRETE, MODIFIED	PCCP FOR DRIVEWAYS, 9"	SODDING	TOPSOIL	CURB RAMP	CURB RAMP DECORATIVE	DETECTABLE WARNING SURFACES	CURB AND GUTTER REMOVAL	SIDEWALK CONCRETE REMOVAL	REMARKS
						COMPACTED AGGREGATE BASE	HMA	PCCP			SURFACE TYPE A	INTERMD TYPE A						SURFACE TYPE B	SURFACE TYPE C	SURFACE TYPE A	INTERMD TYPE A	BASE TYPE B																				
											LBS PER SYD					DEPTH		LBS PER SYD		LBS PER SYD							DEPTH			TYPE											
									CUT	FILL	140	220				1.5"	2.0"	165	220	165	275	800					4"	6"		II	III										
Begin Station	End Station		FT	FT	FT	SYS	SYS	SYS	CYS	CYS	TONS	TONS	SYS.	SYS.	LFT.	SYS	SYS	TONS	TONS	TONS	TONS	TON S	TONS	SYS	TONS	TONS	TONS	TONS	TONS	SYS	SYS	LFT.	LFT.	SYS.	SYS.	CYS.	SYS	SYS	SYS	LFT.	SYS.	
Line "A"																																									
99+47.44	100+51.50	HMA Sidewalk	12	104.06							9.71	15.26																45.79			138.75										
100+51.50	100+63.50	HMA Sidewalk	107.4	12.00							10.02	15.75																47.26			143.20										
100+63.50	113+59.60	HMA Sidewalk	12	1296.10							120.97	190.09																570.28			1728.13										

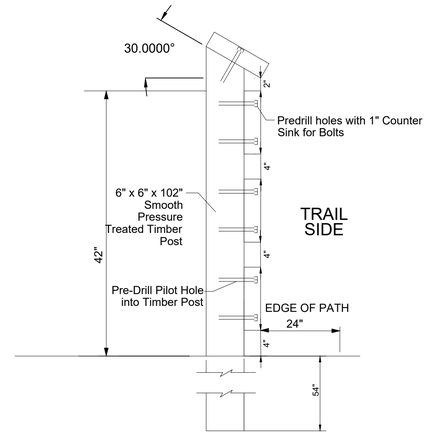


CONCRETE NODE DETAIL AT 113+39.10

NOTE:
TYPE "A" FINISH: STANDARD SIDEWALK, 4" PCCP WITH BROOMED FINISH
TYPE "B" FINISH: EXPOSED AGGREGATE

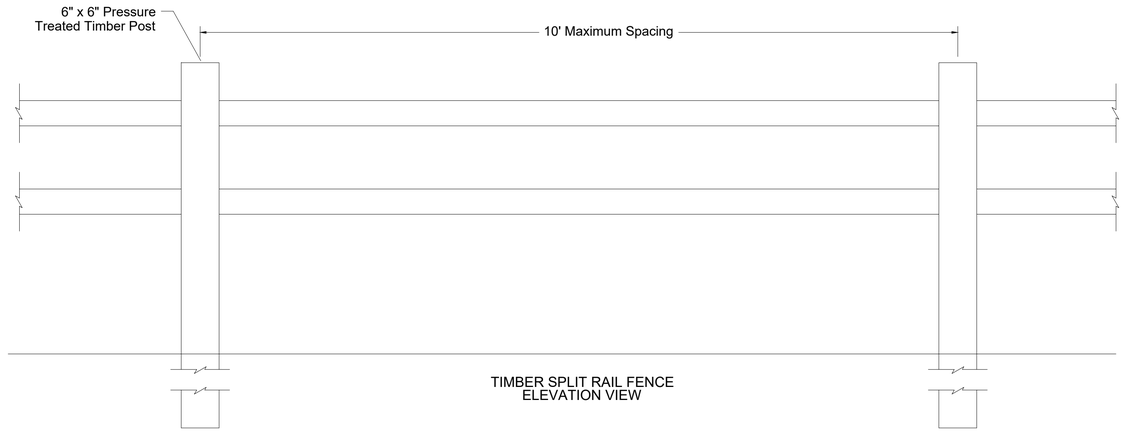


TIMBER PEDESTRIAN RAIL
ELEVATION VIEW

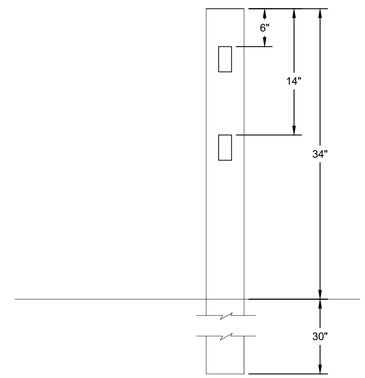


TIMBER PEDESTRIAN RAIL
CROSS SECTION

1/10 FENCE RAIL DETAIL
1"=1'



TIMBER SPLIT RAIL FENCE
ELEVATION VIEW



TIMBER SPLIT RAIL FENCE
CROSS SECTION

2/10 TIMBER SPLIT RAIL FENCE DETAIL
1"=1'

NOTE:
CORNER AND END POSTS REQUIRE 12-INCH DIAMETER CONCRETE FOOTINGS EXTENDING AT LEAST 24-INCHES INTO UNDESTURBED NATURAL GROUND OR PROPERLY COMPACTED FILL

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INDIANA DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
MARQUETTE GREENWAY TRAIL

HORIZONTAL SCALE	BRIDGE FILE
- - -	- - -
VERTICAL SCALE	DESIGNATION
- - -	1601147

SURVEY BOOK	SHEETS
- - -	10 of 16
CONTRACT	PROJECT
R-39625	1601147

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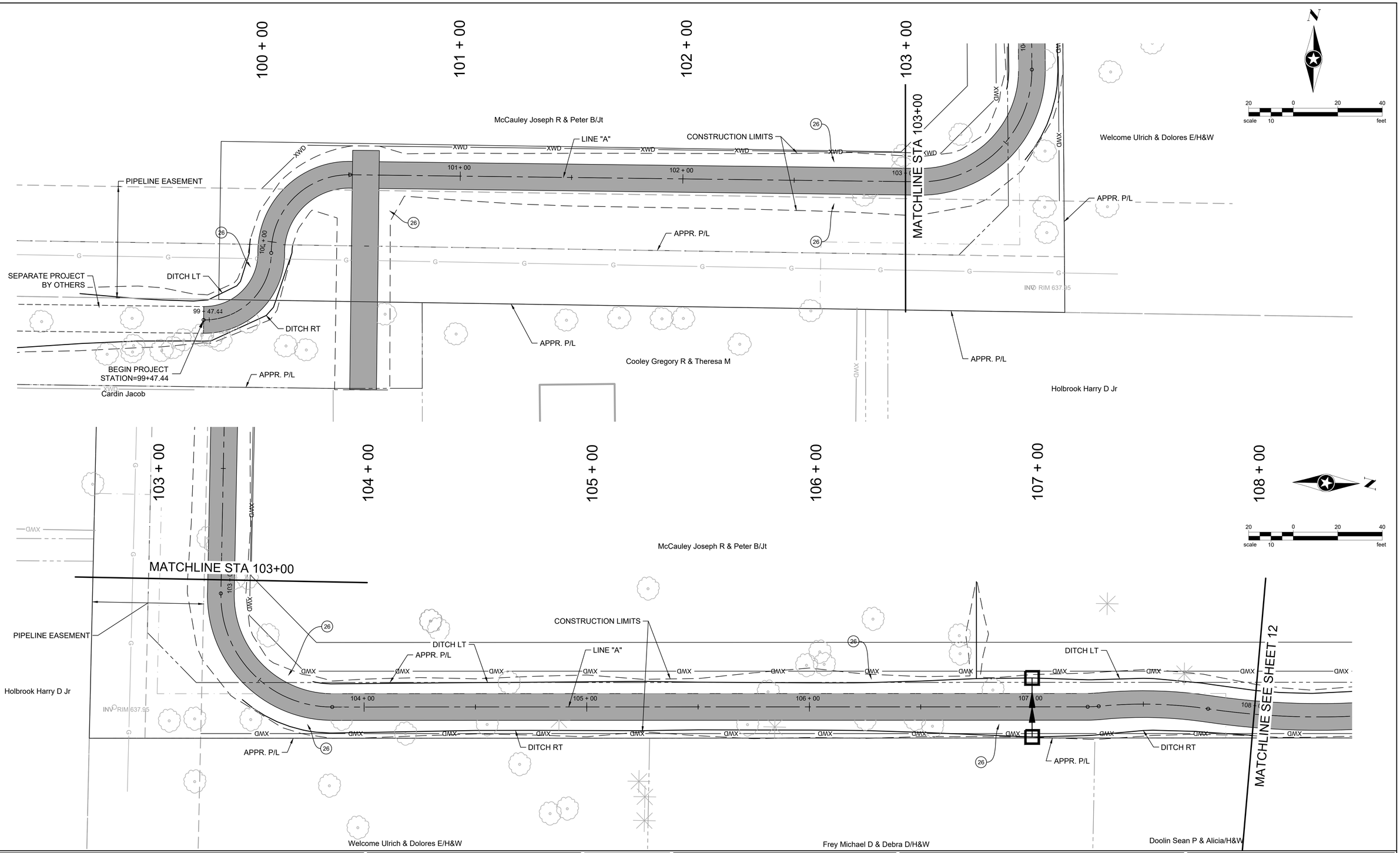

LEGEND

SILT FENCE

INLET PROTECTION

CONSTRUCTION ENTRANCE

SEEDING, TOPSOIL 4" W/ EROSION CONTROL BLANKET

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Phone: 219.513.2500

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INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLANS - STA. 99+47.44 to 108+00
MARQUETTE GREENWAY TRAIL

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	- - -
VERTICAL SCALE	DESIGNATION
1"=5'	1601147

SURVEY BOOK	SHEETS
- - -	11 of 16
CONTRACT	PROJECT
R-39625	1601147

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108 + 00
109 + 00
110 + 00
111 + 00
112 + 00
113 + 00
MATCHLINE SEE SHEET 11
McCauley Joseph R & Peter B/Jt
DITCH LT
APPR. P/L
LINE "A"
APPR. P/L
United States Of America
% Pioneer Title
CONSTRUCTION LIMITS
DITCH RT
APPR. P/L
Doolin Sean P & Alicia/H&W
United States Of America
%Pioneer Title
MATCHLINE STA 113+00
END IMPROVEMENT
STATION=113+59.60
scale 10 20 0 20 40 feet
113 + 00
114 + 00
115 + 00
116 + 00
117 + 00
118 + 00
MATCHLINE STA 113+00
United States Of America
%Pioneer Title
APPR. P/L
LINE "A"
CONSTRUCTION LIMITS
DITCH RT
END IMPROVEMENT
STATION=113+59.60
CONSTRUCTION LIMITS
SEPARATE PROJECT
BY OTHERS
United States Of America
%Pioneer Title
APPR. P/L
United States Of America
%Pioneer Title
scale 10 20 0 20 40 feet
APPR. P/L

LEGEND

SILT FENCE
CONSTRUCTION ENTRANCE
INLET PROTECTION
SEEDING, TOPSOIL 4" W/ EROSION CONTROL BLANKET

SEH of Indiana
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DESIGN ENGINEER
11-23-2021
DATE

DESIGNED: JLS
DRAWN: RSP
CHECKED: XXX
CHECKED: XXX

INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLANS - STA. 108+00 to 118+00
MARQUETTE GREENWAY TRAIL

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	- - -
VERTICAL SCALE	DESIGNATION
1"=5'	1601147

SURVEY BOOK	SHEETS		
- - -	12	of	16
CONTRACT	PROJECT		
R-39625	1601147		

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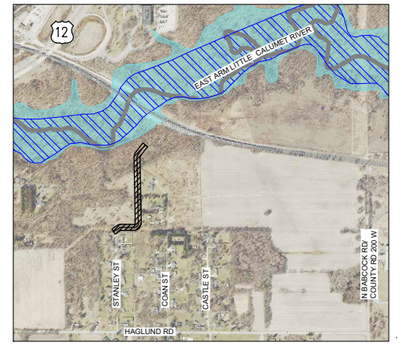
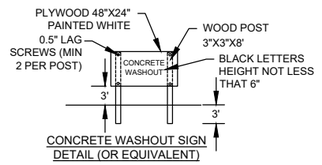
		Sheet Location
SECTION A – Basic Plan Elements		
1	Index	2
2	Plat (11" x 17") (see separate sheet)	
3	Narrative describing project nature and purpose	13
4	Vicinity map showing project location	1, 13
5	Legal Description of the Project Site	13
6	Location of all lots and proposed site improvements	5-##
7	Hydrologic unit code	13
8	Notation of any State or Federal water quality permits	13
9	Specific points where Storm water discharge will leave the site	EC 13-13
10	Location and name of all wetlands, lakes, and water courses on and adjacent to the site	13
11	Identify all Receiving Waters	13
12	Identification of potential discharges to groundwater	13
13	100 Year Floodplains, floodways, and floodway fringes	13
14	Pre-construction and post construction estimate of Peak Discharge	13
15	Adjacent land use, including upstream watershed	13
16	Locations and approximate boundaries of all disturbed areas	5-##
17	Identification of existing vegetative cover	13
18	Soils map including descriptions and limitations	13
19	Locations, size and dimensions of proposed Storm water systems	5-##
20	Plan for any off-site construction activities associated with this project	13
21	Locations of proposed soil stockpiles borrow and/or disposal areas	13
22	Existing site topography at an interval appropriate to show detailed drainage patterns	5-##
23	Proposed final topography at an interval appropriate to show detailed drainage patterns	5-##
SECTION B – Construction		
1	Description of potential pollutant sources associated with the construction activities	13
2	Sequence describing Storm water quality measure implementation relative to land disturbing activities	13
3	Stable construction entrance locations and specifications	EC 13-13
4	Sediment control measures for sheet flow areas	EC 13-13
5	Sediment control measures for concentrated flow areas	NA
6	Storm sewer inlet protection measure locations and specifications	EC 13-13
7	Runoff control measures	EC 13-13
8	Storm water outlet protection specifications	EC 13-13
9	Grade Stabilization structure locations and specifications	NA
10	Location, dimensions, specifications and construction details of each Storm water quality measure	EC 13-13
11	Temporary surface stabilization methods appropriate for each season	13
12	Permanent surface stabilization specifications	13
13	Material handling and spill prevention plan	13
14	Monitoring and maintenance guidelines for each proposed pollution prevention measure	13
15	Erosion & Sediment control specifications for individual building lots	NA
SECTION C – Post Construction		
1	Description of pollutants and their sources associated with the proposed land use	13
2	Sequence describing storm water quality measure implementation	13
3	Description of proposed post construction storm water quality measures	13
4	Location, dimensions, specifications and construction details of each Storm water quality measure	13
5	Description of maintenance guidelines for proposed post construction water quality measures	13

CONSTRUCTION SEQUENCE SCHEDULE

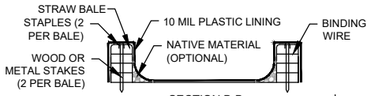
CONSTRUCTION ACTIVITY	MEASURES NEEDED	LOCATION OF MEASURE	TIMING OF INSTALLATION	NOTES:
Preconstruction Activities (evalulation and protection of important site features):				
Preconstruction Conference	---	---	Meeting to be held prior to all construction activities.	Discuss erosion control reporting, monitoring and requirements.
			Prior to any land disturbance.	Identify potential issues and critical items.
Contact Utility Locates	Contact Indiana 811	---		
---	---	---		
---	---	---		
Construction Access (construction entrances, construction routes, equipment parking areas):				
Install construction entrance	Aggregate ingress/egress pads	All points of vehicle entrance and exit	First land disturbing activity.	
Install construction routes and equipment area(s)	Aggregate staging pads and dust control.	All staging and parking areas.	Install at time of site mobilization.	
	Stabilized construction routes.	Project site construction routes		
Perimeter Controls (to be installed in areas designated within the plan set):				
Install sediment barriers and filters (silt fence, etc)	Silt Fence	Any location where storm water may discharge from site	Install additional measures as needed during grading and to define constrUction limits.	
		Down-slope of active construction area		
Initial Land Clearing and Grading Activities:				
Clear of right of way	Silt Fence	Down-slope of active construction area	Apply as needed during construction activities.	
	Filter Sock inlet protection		Install prior to demolition of existing parking lot	
Strip and stockpile topsoil	Silt Fence	Down-slope of active construction area	Apply as needed during construction activities.	No stock piles planned for this project
Stabilize topsoil stockpiles	Silt Fence	Perimeter of stockpipe areas	Apply as needed during construction activities.	NA
	Temporary seeding, erosion control mats	Soil stockpiles	Apply as needed according to construction plans.	NA
Secondary Land Grading Activities (cutting, filling, grading, drains, sediment traps, barriers, diversions, surface roughening):				
Runoff Conveyance System (stabilized streambanks, storm drains, inlet and outlet protections, channels):				
Install storm sewer	Filter Sock inlet protection	Existing catch basins on project site	Construct following final grade of road.	
Protect storm drain inlets	Filter Sock inlet protection	Storm Drain Inlets	Install after storm sewer system is completed	
Stabilization of areas disturbed for storm sewer installation	Inplace soil compaction, compacted aggreagate base	Disturbed areas	Apply as needed during construction activities.	
Excavate Subsoil to Grade:				
Stockpile subsoil in designated areas	Silt Fence	Down-slope of active construction area	Stockpile subsoil in stockpile location as needed.	NA
Stabilize subsoil stockpiles	Silt Fence	Perimeter of stockpipe areas	Stabilize stockpiles as needed.	NA
	Temporary seeding, erosion control mats	Soil stockpiles		
Temporary Surface Stabilization:				
Seed and mulch disturbed areas daily/w eekly	Temporary seeding, erosion control mats	All rough graded areas that will be inactive for seven or more days	Apply as needed during construction activities.	
Permanent seed all areas at final grade	Permanent seeding, erosion control mats	Planned landscaped areas	Apply seed once final grade is reached.	
Install Infrastucture:				
Construct streets/roadways	Silt Fence	Any location where storm water may discharge from site	Install when final grade has been met.	
Install curb and gutter	Silt Fence	Storm Drain Curb Inlets		
	Curb Inlet Protection			
Pave streets/roadways	Silt Fence	Any location where storm water may discharge from site	Install after streets/roadways have been constructed.	
Final Shaping, Landscaping, Stabilization:				
Apply topsoil and soil ammendments		Unvegetated areas at final grade	Apply when final grade is reached.	
Permanent seeding and erosion control mats.	Permanent seeding, erosion control mats	All remaining unvegetated areas	Plant in timely manner when construction ceases.	
Maintenance of Erosion and Sediment Control Practices:				
Remove temporary structural measures			Remove when construction activities are complete.	
Seed and mulch any remaining unvegetated areas	Permanent seeding, erosion control mats	Areas disturbed when removing temporary storm water management measures	Apply when consturction activities are complete.	
		Areas without established vegetative growth		



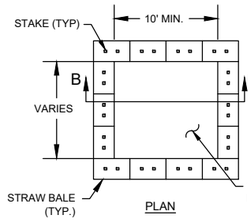
FLOODPLAIN MAP



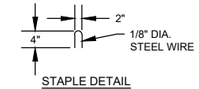
CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT)



SECTION B-B



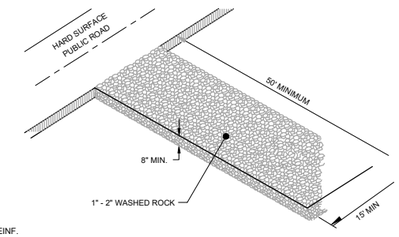
PLAN



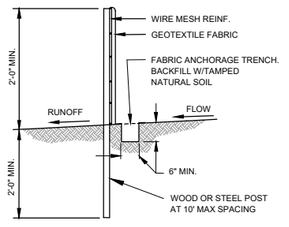
STAPLE DETAIL

NOTES:
1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

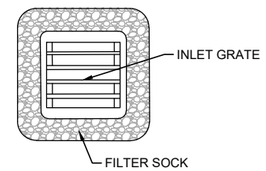
CONCRETE WASHOUT STATION



CONSTRUCTION ENTRANCE



SILT BARRIER DETAIL



INLET PROTECTION DETAIL

SEH of Indiana
9200 Calumet Avenue, Suite N300
Munster, Indiana 46321
Phone: 219.513.2500

RECOMMENDED FOR APPROVAL _____ 11-23-2021
DESIGN ENGINEER DATE

DESIGNED: JLS DRAWN: RSP
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INDIANA DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN
MARQUETTE GREENWAY TRAIL

HORIZONTAL SCALE	BRIDGE FILE
	- - -
VERTICAL SCALE	DESIGNATION
	1601147

SURVEY BOOK	SHEETS
- - -	13 of 16
CONTRACT	PROJECT
R-39625	1601147

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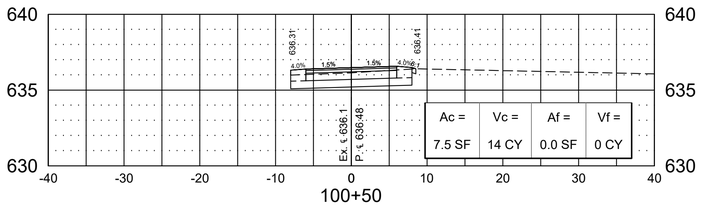
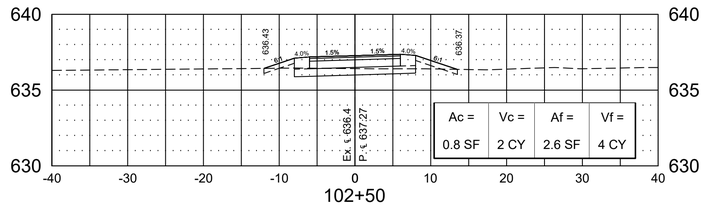
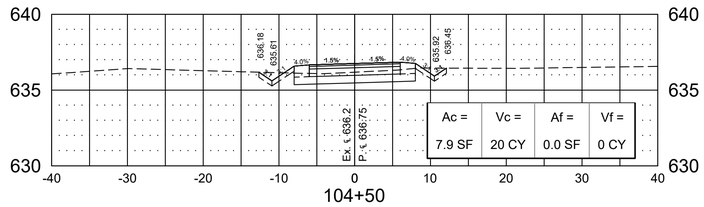


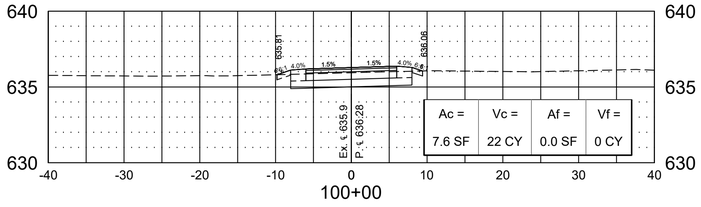
100+50



102+50



104+50



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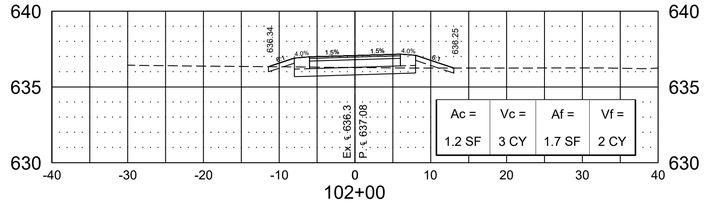

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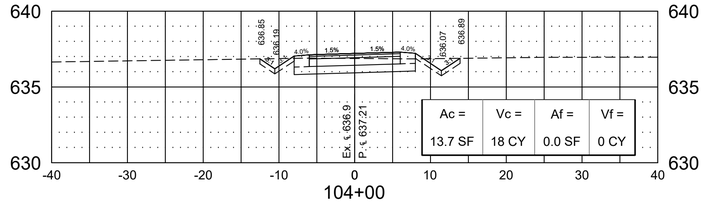

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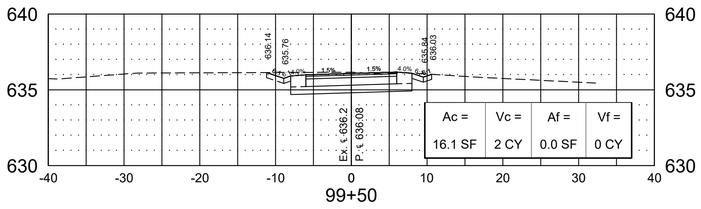
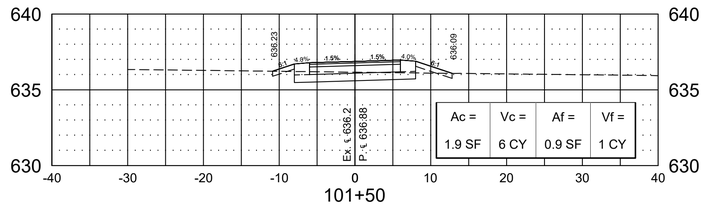


99+50



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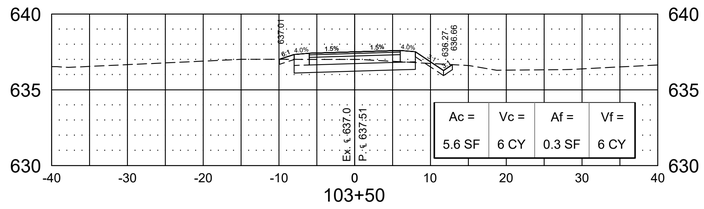
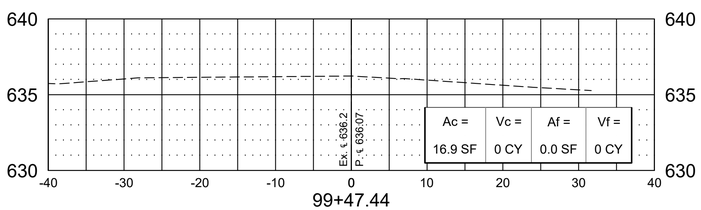
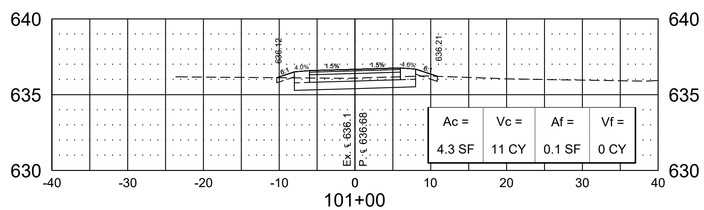


103+50



99+47.44



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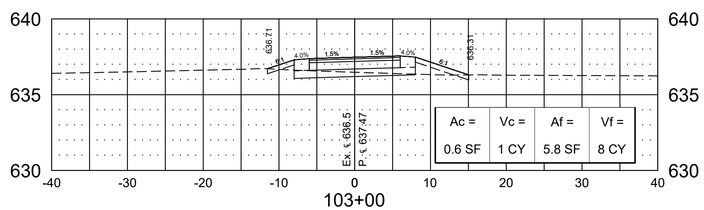

103+00

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RECOMMENDED FOR APPROVAL _____ 11-23-2021
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CHECKED: XXX | CHECKED: XXX

INDIANA DEPARTMENT OF TRANSPORTATION

SECTIONS - STA. 99+47.44 to 105+50
MARQUETTE GREENWAY TRAIL

HORIZONTAL SCALE	BRIDGE FILE
	- - -
VERTICAL SCALE	DESIGNATION
	1601147

SURVEY BOOK	SHEETS
- - -	14 of 16
CONTRACT	PROJECT
R-39625	1601147

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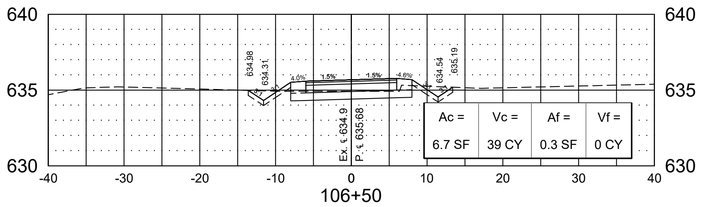

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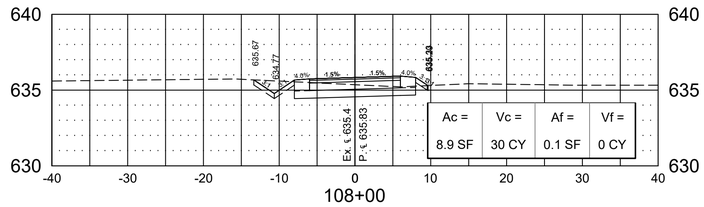

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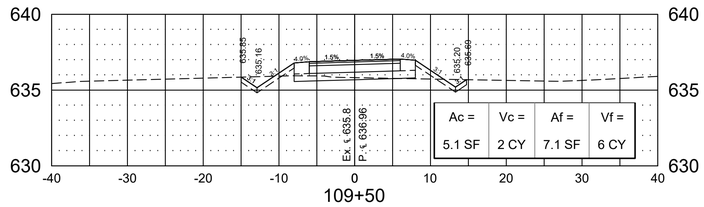

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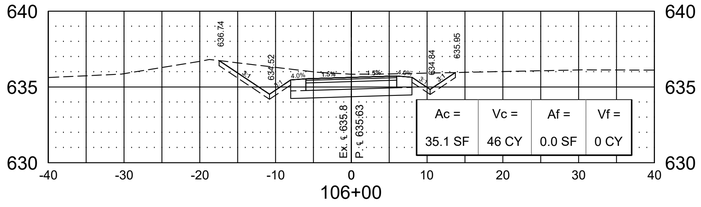

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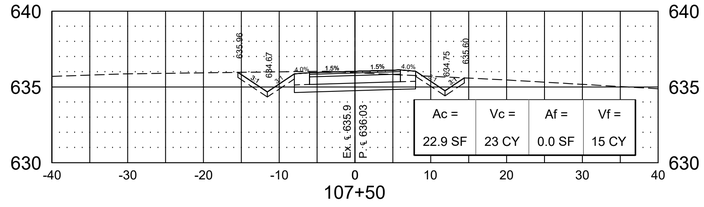

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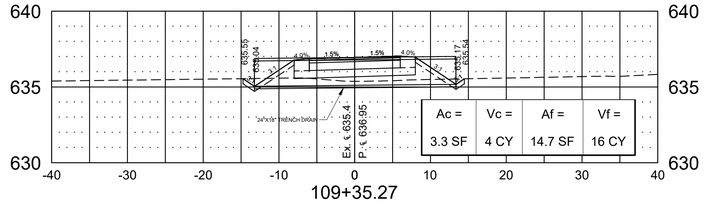
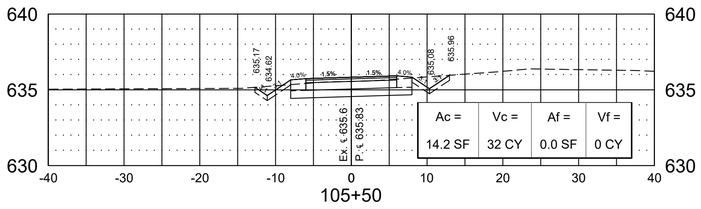


109+35.27



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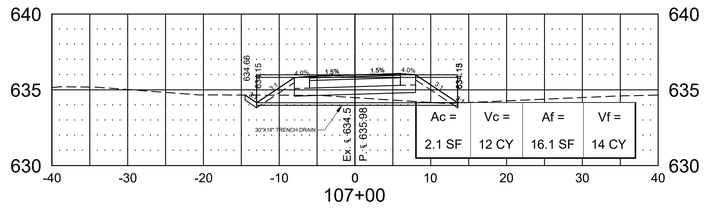

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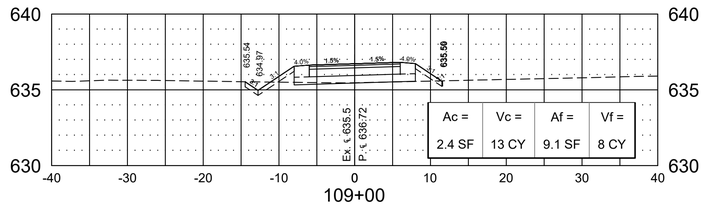

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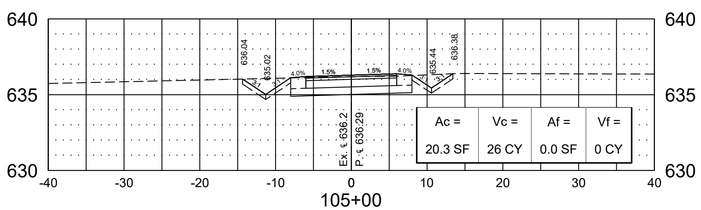

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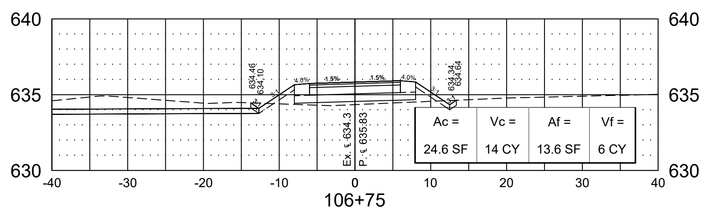

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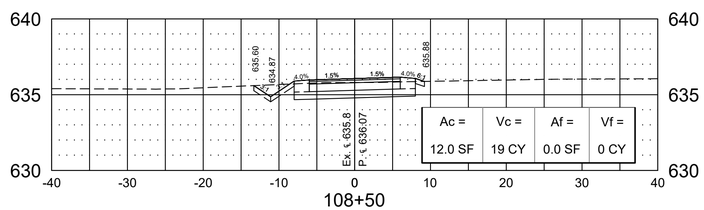

108+50

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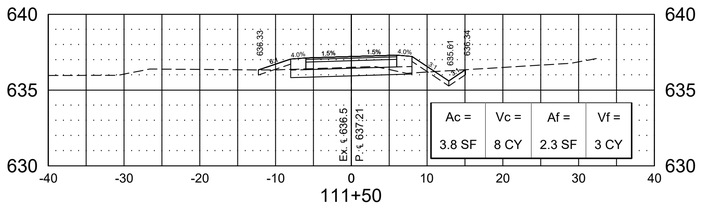
INDIANA DEPARTMENT OF TRANSPORTATION

SECTIONS - STA. 106+00 to 110+50
MARQUETTE GREENWAY TRAIL

HORIZONTAL SCALE	BRIDGE FILE
	- - -
VERTICAL SCALE	DESIGNATION
	1601147

SURVEY BOOK	SHEETS
- - -	15 of 16
CONTRACT	PROJECT
R-39625	1601147

Save: 11/23/2021 8:06 AM pstepanovic Plot: 11/23/2021 8:14 AM P:\AE\B\BHRDC\141429\5-final-dsgn\51-drawings\10-Civil\cad\dwg\sheet - Phase 1A\141429XS-Phase 1A.dwg



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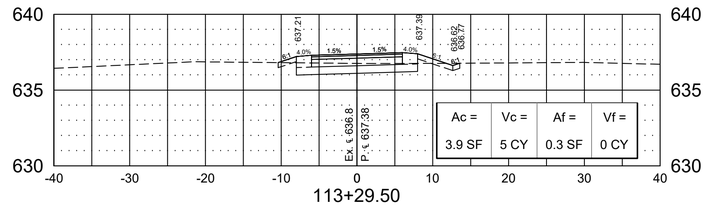
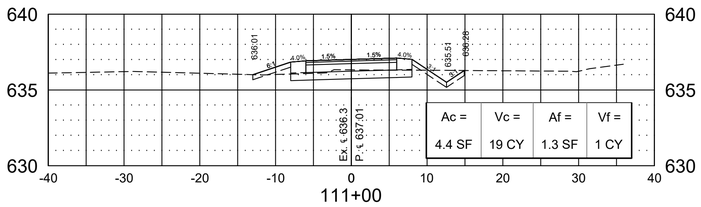


113+29.50



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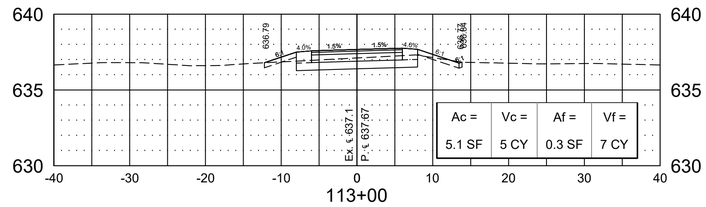

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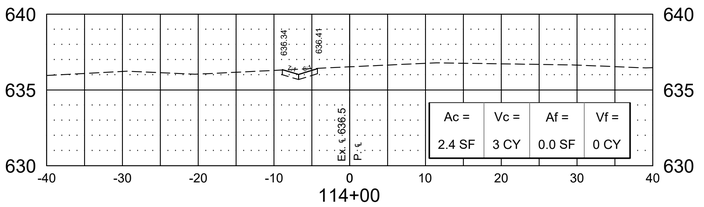
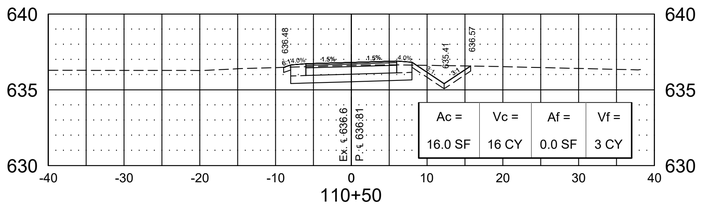


114+00



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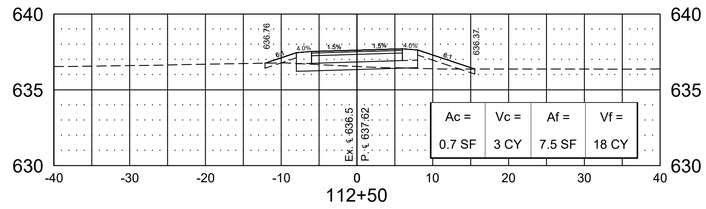

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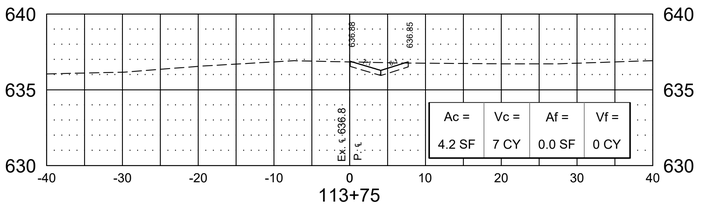

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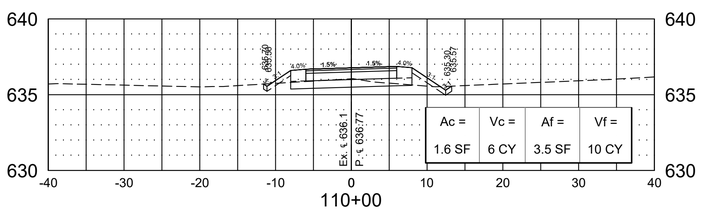

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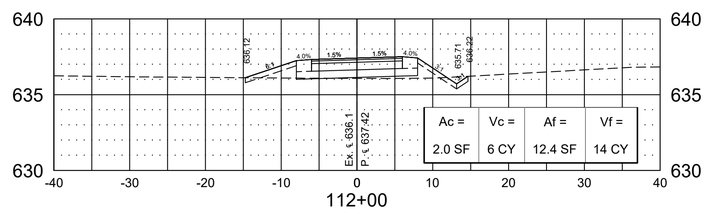

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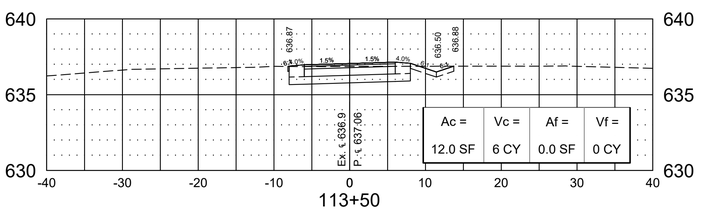

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INDIANA DEPARTMENT OF TRANSPORTATION

SECTIONS - STA. 111+00 to 114+00
MARQUETTE GREENWAY TRAIL

HORIZONTAL SCALE	BRIDGE FILE
	- - -
VERTICAL SCALE	DESIGNATION
	1601147

SURVEY BOOK	SHEETS
- - -	16 of 16
CONTRACT	PROJECT
R-39625	1601147