HAMILTON COUNTY SURVEYOR'S OFFICE

RECONSTRUCTION OF THE FLORA MENDENHALL REGULATED DRAIN

SECTION 1, T19N, R3E IN ADAMS TOWNSHIP

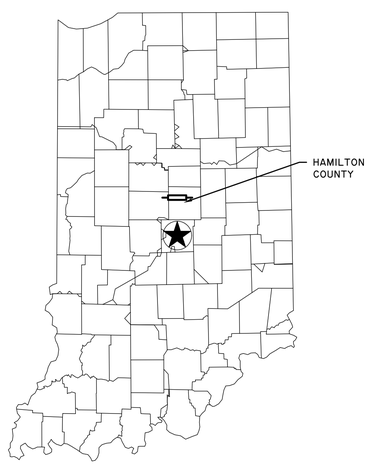
KENTON C. WARD, COUNTY SURVEYOR

HAMILTON COUNTY DRAINAGE BOARD

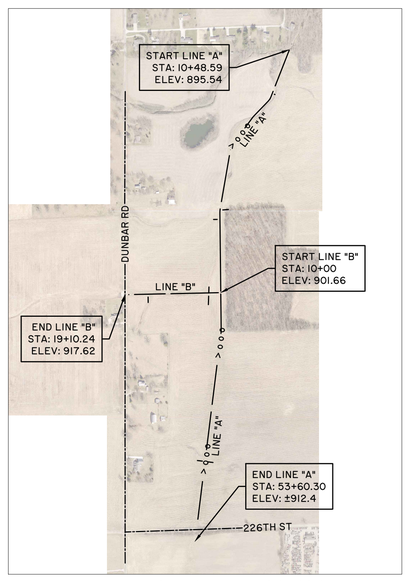
MARK HEIRBRANDT, PRESIDENT
STEVEN C. DILLINGER, VICE PRESIDENT
CHRISTINE ALTMAN, MEMBER

UTILITY CONTACTS

ROADS/STREETS	TELEPHONE
HAMILTON COUNTY HIGHWAY DEPT. ROBB CHADWELL (317) 773-7770	AT&T MIKE HAYNES (317) 610-5249



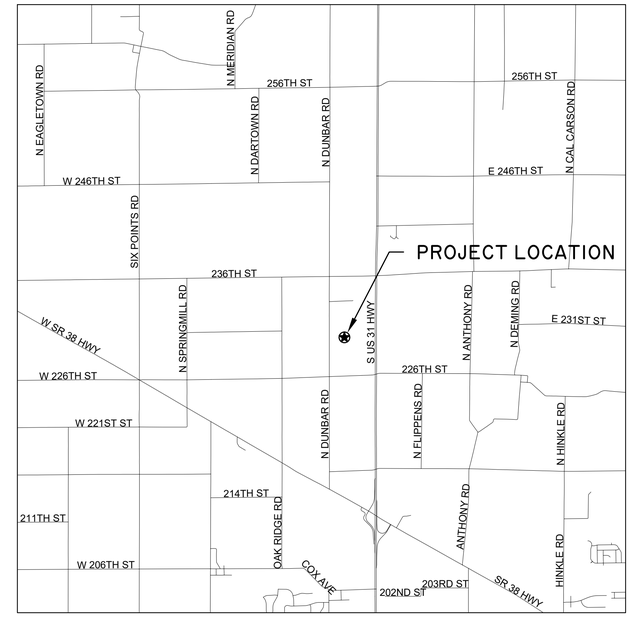
PROJECT LOCATION SHOWN BY



AERIAL IMAGERY CURRENT AS OF 2018
SOURCE: HAMILTON COUNTY GIS
(FOR REFERENCE ONLY)

DATUM

THE TOPOGRAPHIC SURVEY AND DESIGN USED THE FOLLOWING DATUM:
HORIZONTAL DATUM: US STATE PLANE 1983, NAD 1983 (CONUS) INDIANA EAST 1301
VERTICAL DATUM: (NAVD 88) (GEOID 12)



SITE LOCATION MAP
NOT TO SCALE

"HOLEY MOLEY" SAYS CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU DIG IT'S THE LAW

1-800-382-5544
CALL TOLL FREE

LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

811
Know what's below.
Call before you dig.

INDEX

SHEET NO.	DESCRIPTION
CS	TITLE SHEET
1	LINE "A" STATION 52+75 - 53+60
2	LINE "A" STATION 42+00 - 52+75
3	LINE A" STATION 31+25 - 42+00
4	LINE "A" STATION 20+50 - 31+25
5	LINE "A" STATION 18+32 - 20+50
6	LINE "B" STATION 10+00 - 19+10.24
7	AREA DETAILS
8	AREA DETAILS
9	AREA DETAILS
10	AREA DETIALS
11	GENERAL DETAILS
12	GENERAL DETAILS
13	GENERAL NOTES AND DETAILS

ALL TREES SHALL BE CUT
AND ON THE GROUND
BEFORE MARCH 25, 2022

SET NO.

HAMILTON COUNTY, INDIANA
HAMILTON COUNTY SURVEYOR'S OFFICE
HAMILTON COUNTY GOVERNMENT/JUDICIAL CENTER
ONE HAMILTON COUNTY SQUARE, SUITE 188
NOBLESVILLE, IN 46060
PHONE: (317) 776-8495
FAX: (317) 776-9628
SURVEYOR@HAMILTONCOUNTY.IN.GOV

PROJECT NO:	238-19
WATERSHED NO:	238
FIELD BOOK:	
FIELD BY:	BKR/SDF
DRAWN BY:	GRD/RQA
CHECKED BY:	GRD
DATE:	4/29/19

	BY:	DATE:
REVISIONS:	-	-
	-	-

GARY R. DUNCAN, JR.
REGISTERED
No. PE19900146
STATE OF INDIANA
PROFESSIONAL ENGINEER

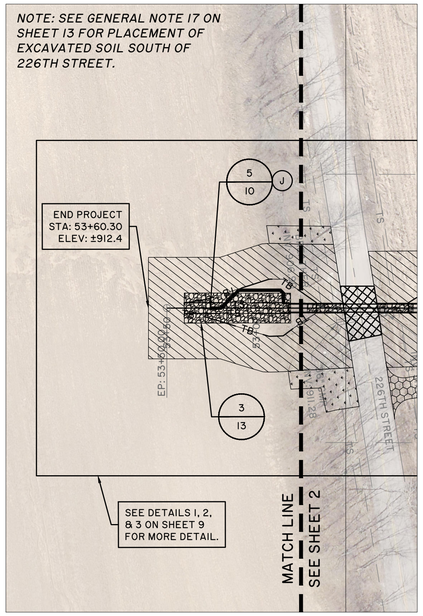
CERTIFIED BY:
GARY R. DUNCAN, JR., P.E.
DATE: 14-JAN-22

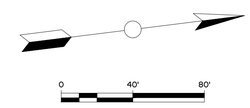
PROJECT NAME:
FLORA MENDENHALL DRAIN
RECONSTRUCTION
TITLE SHEET

PLOT DATE: Jan 14, 2022 - 11:10 am

SHEET NO.
CS OF 13

Jan 14, 2022 - 11:10 am S:\E-Surv\Projects\Regulated Drains\Flora Mendenhall\Civil 3D\Production Drawings\ \ 238-19 Flora Mendenhall Construction Drawings 090519.dwg





PROPOSED LEGEND

- (A) REMOVE EXISTING TILE AS OPEN DITCH IS EXCAVATED.
- (B) DEMOLISH EXISTING TILE PER GENERAL NOTE 14 ON SHEET 13. PROVIDE POSITIVE OUTLET TO NEW DITCH TO ANY CONNECTIONS.
- (C) REMOVE EXISTING CULVERT. BACKFILL TRENCH WITH COMPACTED GRANULAR MATERIAL.
- (D) PROPOSED 30' X 50' CROSSING.
- (E) END STOCKPILE AREA AT STATION NOTED.
- (F) STOCKPILE AREA BREAK BETWEEN STATIONS NOTED.
- (G) BEGIN 20' LONG TRANSITION BETWEEN 6' BOTTOM AND 4' BOTTOM AT STATION NOTED.
- (H) TREE PROTECTION FENCE INSTALLED AT DRIPLINE OF TREES.
- (I) INTERCEPT EXISTING 8" TILE.
- (J) INTERCEPT EXISTING 12" TILE.
- (K) LOCATION OF CONSTRUCTION ENTRANCE MAY BE ADJUSTED BY CONTRACTOR WITH APPROVAL BY INSPECTOR.
- (L) PROPOSED 12" #2 STONE FOR CROSSING.
- (M) PROPSED GRANULAR BACKFILL.
- (N) REMOVE EXISTING PAVEMENT AS NECESSARY FOR THE WORK. SEE GENERAL NOTE 15 ON SHEET 13 FOR MAINTENANCE OF TRAFFIC REQUIREMENTS. SAWCUT EXISTING PAVEMENT, FULL DEPTH AT LIMITS OF REMOVAL.
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- (Q) REPLACE REMOVED PAVEMENT WITH NEW PAVEMENT PER DETAIL 3 ON SHEET 11. MATCH EXISTING GRADES AND ELEVATIONS.
- (R) PROPOSED GENERAL SEEDING PER QUANTITY NOTED.
- (S) GRADE OUT ROADWAY SIDESLOPE WITHIN LIMITS NOTED AND PER DETAIL 8 ON SHEET 13.

(TP)	TREE PROTECTION FENCE
TB	PROPOSED TOP BANK
TS	PROPOSED TOE SLOPE
DL	PROPOSED DAY LIGHT
XX / XX	DETAIL NUMBER / SHEET NUMBER — PROPOSED DETAIL BUBBLE

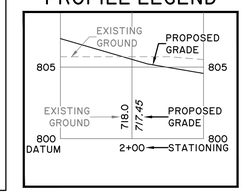
HATCH LEGEND

- GRANULAR BACKFILL
- GENERAL SEEDING
- 7-9" GRADED RIP-RAP. REFER TO DETAILS 1 AND 2 ON SHEET 11; AND DETAILS 1 AND 3 ON SHEET 13.
- OPERATIONAL SIDE AND 20' FILTER STRIP PER DETAIL 4 ON SHEET 11
- TREE/VEGETATION CLEARING OR PAVEMENT REMOVAL AND REPAIR
- #2 STONE @ 12" MIN. DEPTH FOR CROSSING AND 6" MIN. DEPTH FOR CONSTRUCTION ENTRANCE.

EXISTING LEGEND

	APPROXIMATE PARCEL LIMIT PER GIS
	APPROXIMATE EASEMENT LIMIT
OHE	EXISTING OVERHEAD ELECTRIC
UGT	EXISTING UNDERGROUND TELEPHONE
X	EXISTING FENCE
TB	EXISTING TOP BANK
TS	EXISTING TOE SLOPE
	EXISTING FLOWLINE
	EXISTING UTILITY POLE

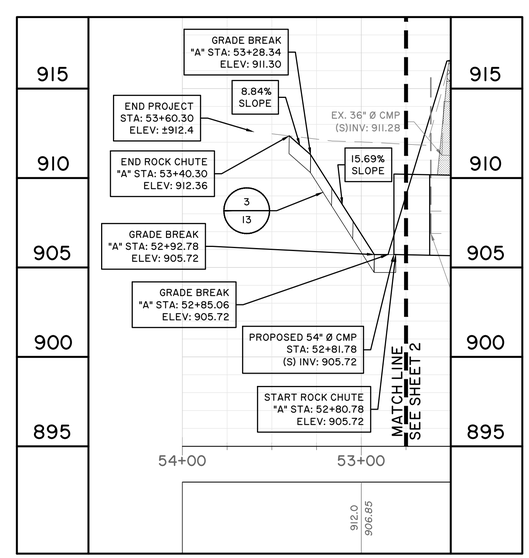
PROFILE LEGEND



PLAN VIEW
SCALE: 1"=40'

PROFILE VIEW
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=4'

REFER TO GENERAL NOTES ON SHEET 13



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-	-	-

GARY R. DUNCAN, JR. REGISTERED No. PE19900146 STATE OF INDIANA PROFESSIONAL ENGINEER

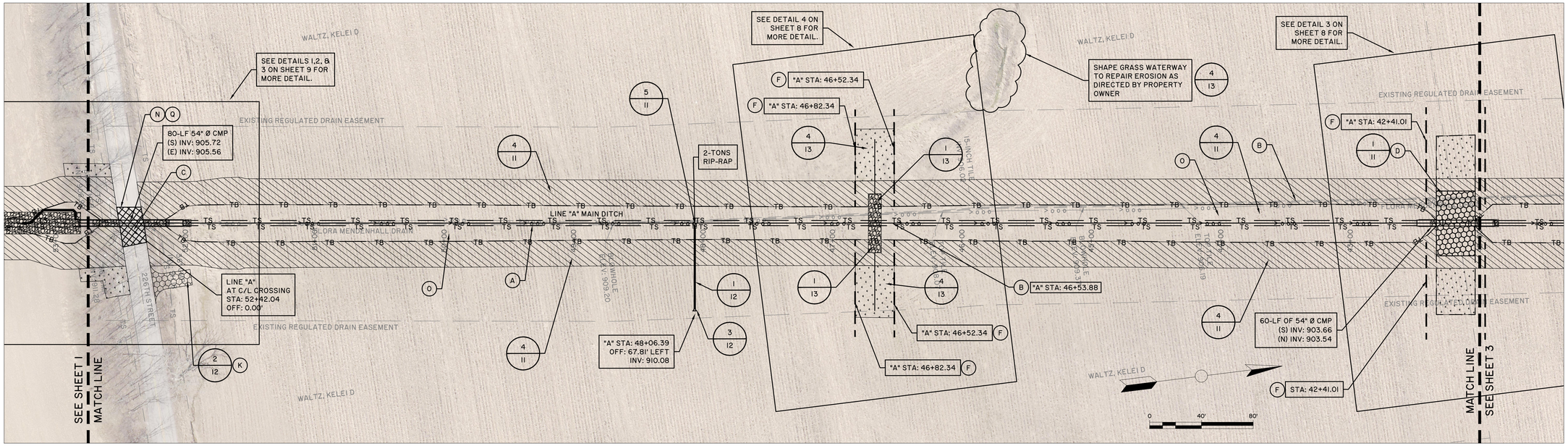
CERTIFIED BY:
GARY R. DUNCAN, JR., P.E.
DATE: 14-JAN-22

PROJECT NAME:
FLORA MENDENHALL DRAIN RECONSTRUCTION
PLAN & PROFILE MAIN DITCH
STA: LINE "A" 52+75 - 53+60

PLOT DATE: Jan 14, 2022 - 11:14 am

SHEET NO.
1 OF 13

Jan 14, 2022 - 11:14 am S:\E-Surv\Projects\Regulated Drains\Flora Mendenhall\Civil 3D\Production Drawings\ \ 238-19 Flora Mendenhall Construction Drawings 090519.dwg



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(TP)	TREE PROTECTION FENCE
TB	PROPOSED TOP BANK
TS	PROPOSED TOE SLOPE
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XX / XX — DETAIL NUMBER / SHEET NUMBER — PROPOSED DETAIL BUBBLE

HATCH LEGEND

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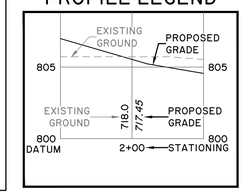
X	EXISTING FENCE
TB	EXISTING TOP BANK
TS	EXISTING TOE SLOPE
	EXISTING FLOWLINE
	EXISTING UTILITY POLE

PROFILE LEGEND



PLAN VIEW
SCALE: 1"=40'

PROFILE VIEW
HORIZONTAL SCALE: 1"=40'
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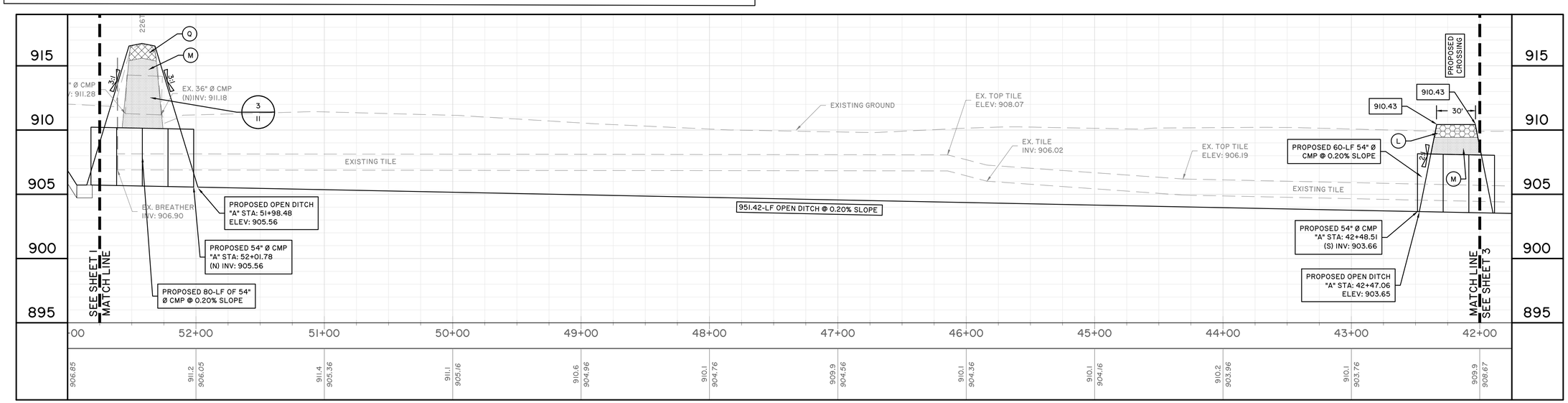
REFER TO GENERAL NOTES ON SHEET 13



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PROJECT NO:	238-19
WATERSHED NO:	238
FIELD BOOK:	
FIELD BY:	BKR/SDF
DRAWN BY:	GRD/RQA
CHECKED BY:	GRD
DATE:	4/29/19

REVISIONS:	DATE:	BY:
-	-	-
-	-	-

GARY R. DUNCAN, JR. REGISTERED No. PE19900146 STATE OF INDIANA PROFESSIONAL ENGINEER

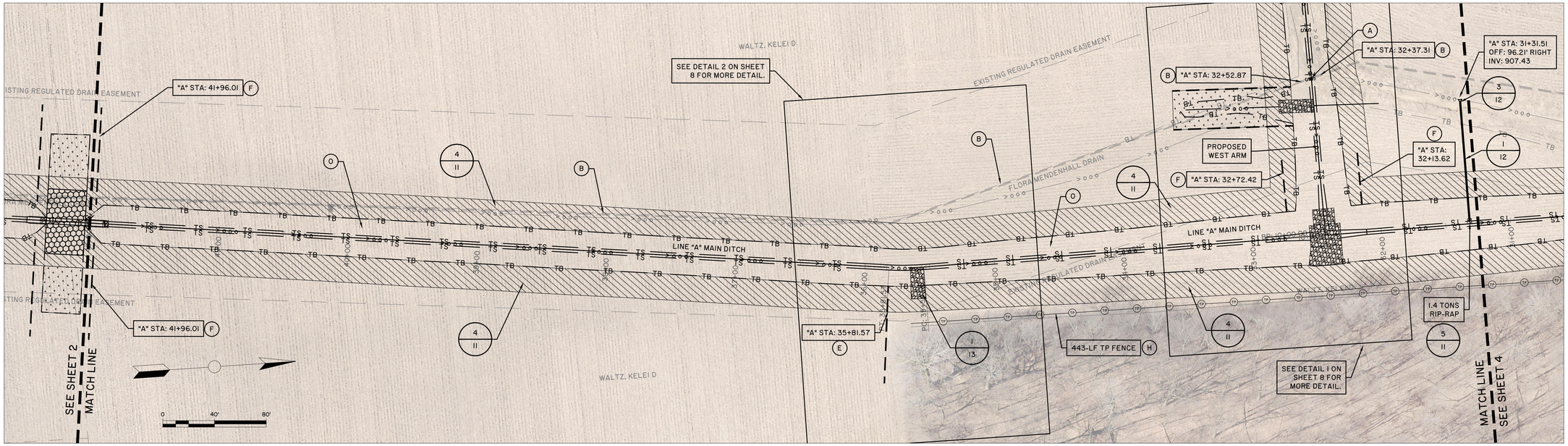
CERTIFIED BY:
GARY R. DUNCAN, JR., P.E.
DATE: 14-JAN-22

PROJECT NAME:
FLORA MENDENHALL DRAIN RECONSTRUCTION
PLAN & PROFILE MAIN DITCH
STA: LINE "A" 42+00 - 52+75

PLOT DATE: Jan 14, 2022 - 11:15 am

SHEET NO.
2 OF 13

Jan 14, 2022 - 11:15 am S:\E-Surv\Projects\Regulated Drains\Flora Mendenhall\Civil 3D\Production Drawings\ \ 238-19 Flora Mendenhall Construction Drawings 090519.dwg



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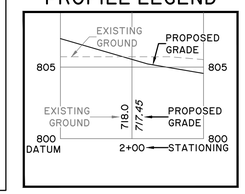
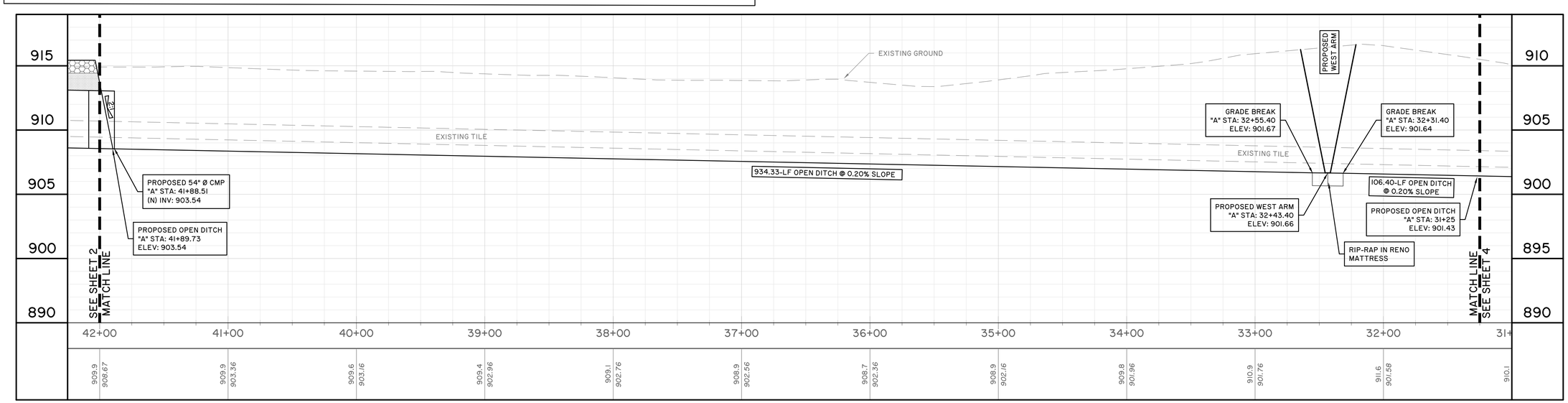
PROFILE LEGEND



PLAN VIEW
SCALE: 1"=40'

PROFILE VIEW
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=4'

REFER TO GENERAL NOTES ON SHEET 13



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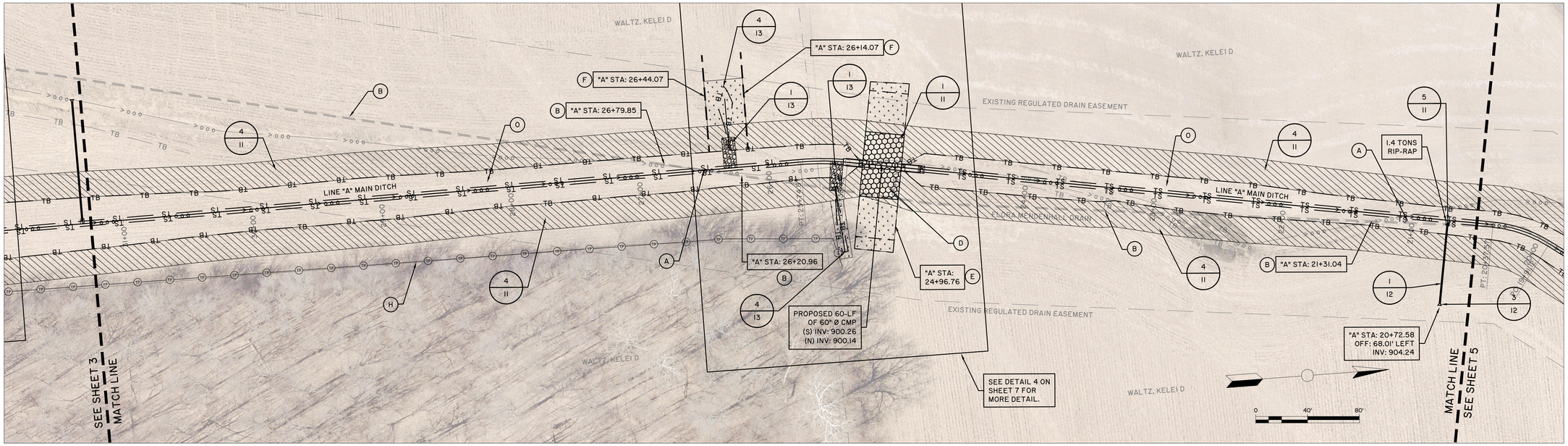

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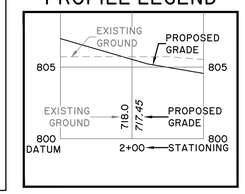

PLAN VIEW
SCALE: 1"=40'

PROFILE VIEW
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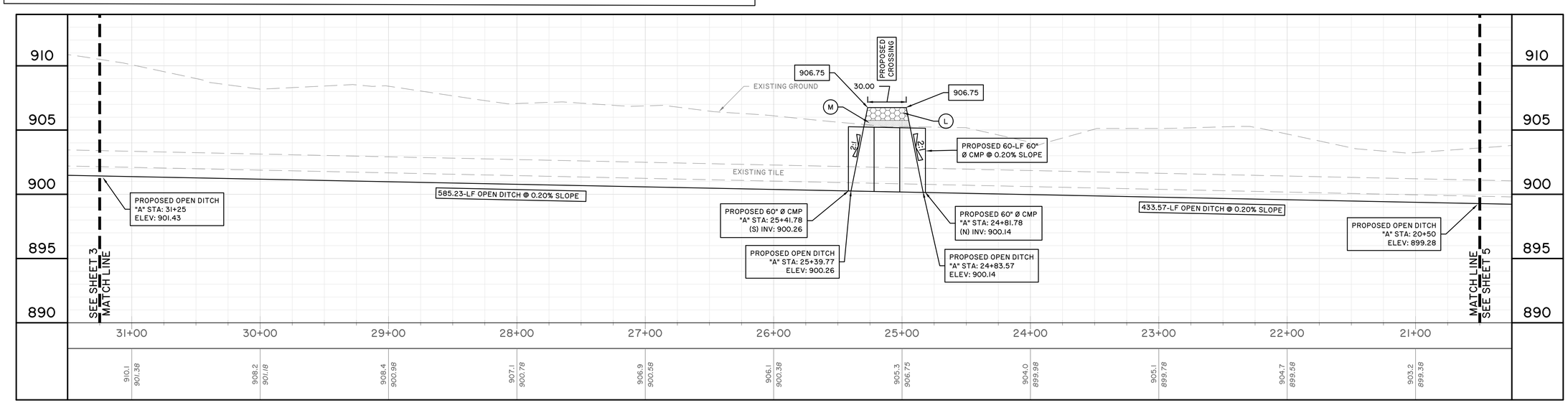
VERTICAL SCALE: 1"=4'

REFER TO GENERAL NOTES ON SHEET 13



HAMILTON COUNTY, INDIANA

HAMILTON COUNTY SURVEYOR'S OFFICE
HAMILTON COUNTY GOVERNMENT/JUDICIAL CENTER
ONE HAMILTON COUNTY SQUARE, SUITE 188
NOBLESVILLE, IN 46060
PHONE: (317) 776-8495
FAX: (317) 776-9628
SURVEYOR@HAMILTONCOUNTY.IN.GOV

PROJECT NO:	238-19
WATERSHED NO:	238
FIELD BOOK:	
FIELD BY:	BKR/SDF
DRAWN BY:	GRD/RQA
CHECKED BY:	GRD
DATE:	4/29/19

BY:	DATE:	REVISIONS:
-	-	-

GARY R. DUNCAN, JR. REGISTERED No. PE19900146 STATE OF INDIANA PROFESSIONAL ENGINEER

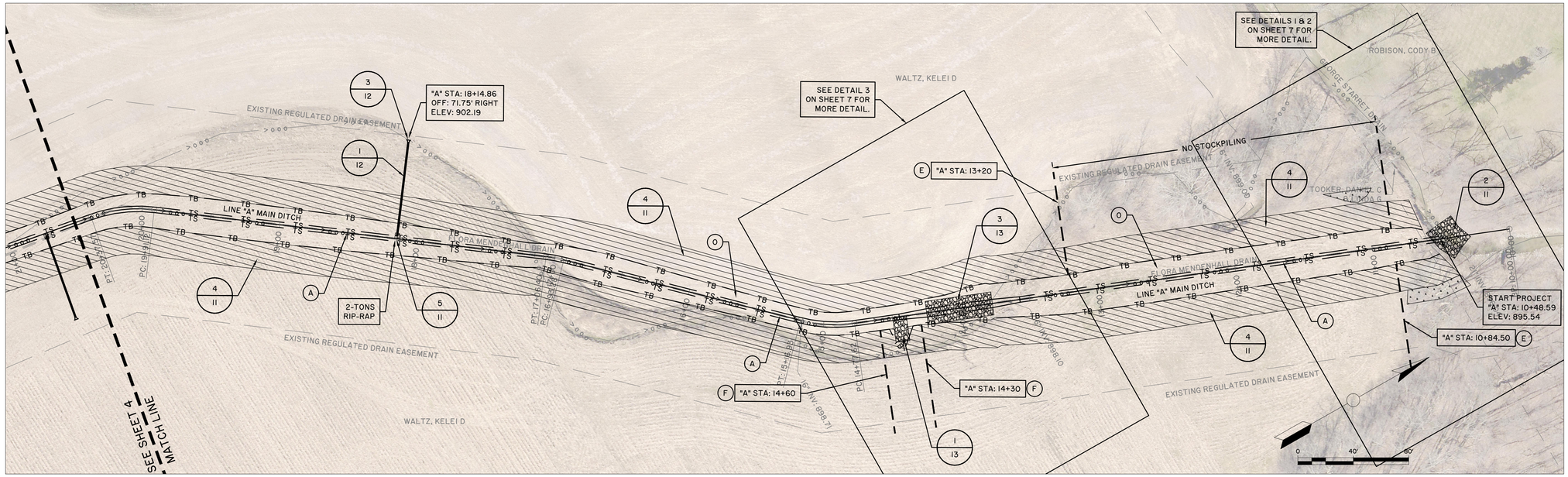
CERTIFIED BY:
GARY R. DUNCAN, JR., P.E.
DATE: 14-JAN-22

PROJECT NAME:
FLORA MENDENHALL DRAIN RECONSTRUCTION
PLAN & PROFILE MAIN DITCH
STA: LINE "A" 20+50 - 31+25

PLOT DATE: Jan 14, 2022 - 11:16 am

SHEET NO.
4 OF 13

Jan 14, 2022 - 11:16 am S:\E-Surv\Projects\Regulated Drains\Flora Mendenhall\Civil 3D\Production Drawings\ \ 238-19 Flora Mendenhall Construction Drawings 090519.dwg



PROPOSED LEGEND

- (A) REMOVE EXISTING TILE AS OPEN DITCH IS EXCAVATED.
- (B) DEMOLISH EXISTING TILE PER GENERAL NOTE 14 ON SHEET 13. PROVIDE POSITIVE OUTLET TO NEW DITCH TO ANY CONNECTIONS.
- (C) REMOVE EXISTING CULVERT. BACKFILL TRENCH WITH COMPACTED GRANULAR MATERIAL.
- (D) PROPOSED 30' X 50' CROSSING.
- (E) END STOCKPILE AREA AT STATION NOTED.
- (F) STOCKPILE AREA BREAK BETWEEN STATIONS NOTED.
- (G) BEGIN 20' LONG TRANSITION BETWEEN 6' BOTTOM AND 4' BOTTOM AT STATION NOTED.
- (H) TREE PROTECTION FENCE INSTALLED AT DRIPLINE OF TREES.
- (I) INTERCEPT EXISTING 8" TILE.
- (J) INTERCEPT EXISTING 12" TILE.
- (K) LOCATION OF CONSTRUCTION ENTRANCE MAY BE ADJUSTED BY CONTRACTOR WITH APPROVAL BY INSPECTOR.
- (L) PROPOSED 12" #2 STONE FOR CROSSING.
- (M) PROPSED GRANULAR BACKFILL.
- (N) REMOVE EXISTING PAVEMENT AS NECESSARY FOR THE WORK. SEE GENERAL NOTE 15 ON SHEET 13 FOR MAINTENANCE OF TRAFFIC REQUIREMENTS. SAWCUT EXISTING PAVEMENT, FULL DEPTH AT LIMITS OF REMOVAL.
- (O) PROPSED CHANNEL SEEDING (NOT HATCHED FOR CLARITY).
- (P) REMOVE EXISTING RIP-RAP AS NECESSARY FOR THE WORK. RIP-RAP MAY BE RE-USED ON PROJECT.
- (Q) REPLACE REMOVED PAVEMENT WITH NEW PAVEMENT PER DETAIL 3 ON SHEET 11. MATCH EXISTING GRADES AND ELEVATIONS.
- (R) PROPOSED GENERAL SEEDING PER QUANTITY NOTED.
- (S) GRADE OUT ROADWAY SIDESLOPE WITHIN LIMITS NOTED AND PER DETAIL 8 ON SHEET 13.

—(TP)—	TREE PROTECTION FENCE
—TB—	PROPOSED TOP BANK
—TS—	PROPOSED TOE SLOPE
—DL—	PROPOSED DAY LIGHT
XX / XX	DETAIL NUMBER / SHEET NUMBER — PROPOSED DETAIL BUBBLE

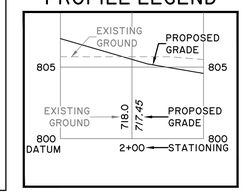
HATCH LEGEND

- GRANULAR BACKFILL
- GENERAL SEEDING
- 7-9" GRADED RIP-RAP. REFER TO DETAILS 1 AND 2 ON SHEET 11; AND DETAILS 1 AND 3 ON SHEET 13.
- OPERATIONAL SIDE AND 20' FILTER STRIP PER DETAIL 4 ON SHEET 11
- TREE/VEGETATION CLEARING OR PAVEMENT REMOVAL AND REPAIR
- #2 STONE @ 12" MIN. DEPTH FOR CROSSING AND 6" MIN. DEPTH FOR CONSTRUCTION ENTRANCE.

EXISTING LEGEND

	APPROXIMATE PARCEL LIMIT PER GIS
	APPROXIMATE EASEMENT LIMIT
—OHE—	EXISTING OVERHEAD ELECTRIC
—UGT—	EXISTING UNDERGROUND TELEPHONE
—x—	EXISTING FENCE
—TB—	EXISTING TOP BANK
—TS—	EXISTING TOE SLOPE
—> o o o—	EXISTING FLOWLINE
	EXISTING UTILITY POLE

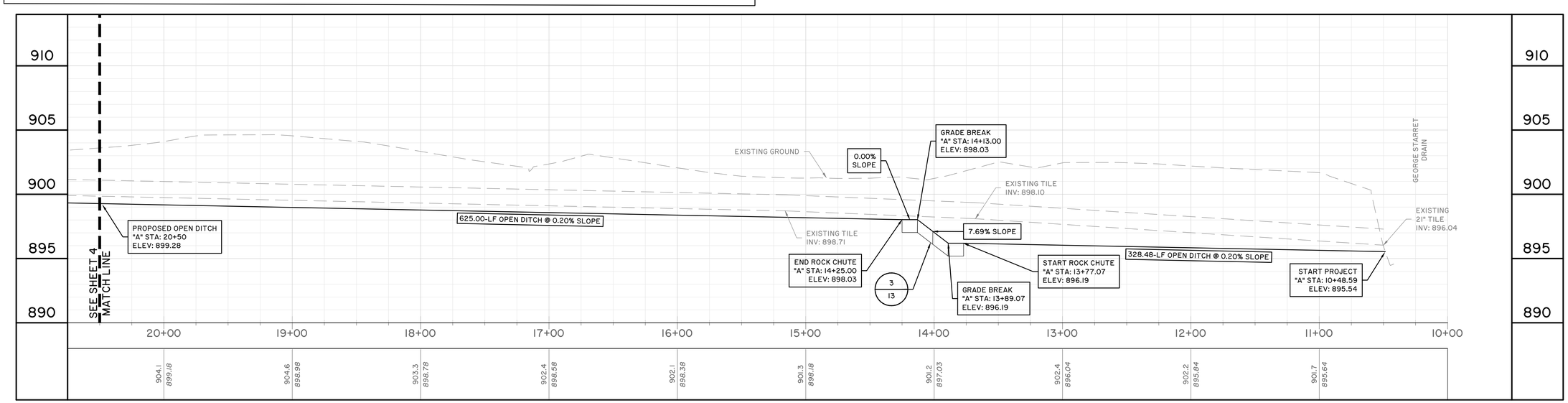
PROFILE LEGEND



PLAN VIEW
SCALE: 1"=40'

PROFILE VIEW
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=4'

REFER TO GENERAL NOTES ON SHEET 13



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DATE:	4/29/19

REVISIONS:	DATE:	BY:
-	-	-
-	-	-

GARY R. DUNCAN, JR. REGISTERED No. PE19900146 STATE OF INDIANA PROFESSIONAL ENGINEER

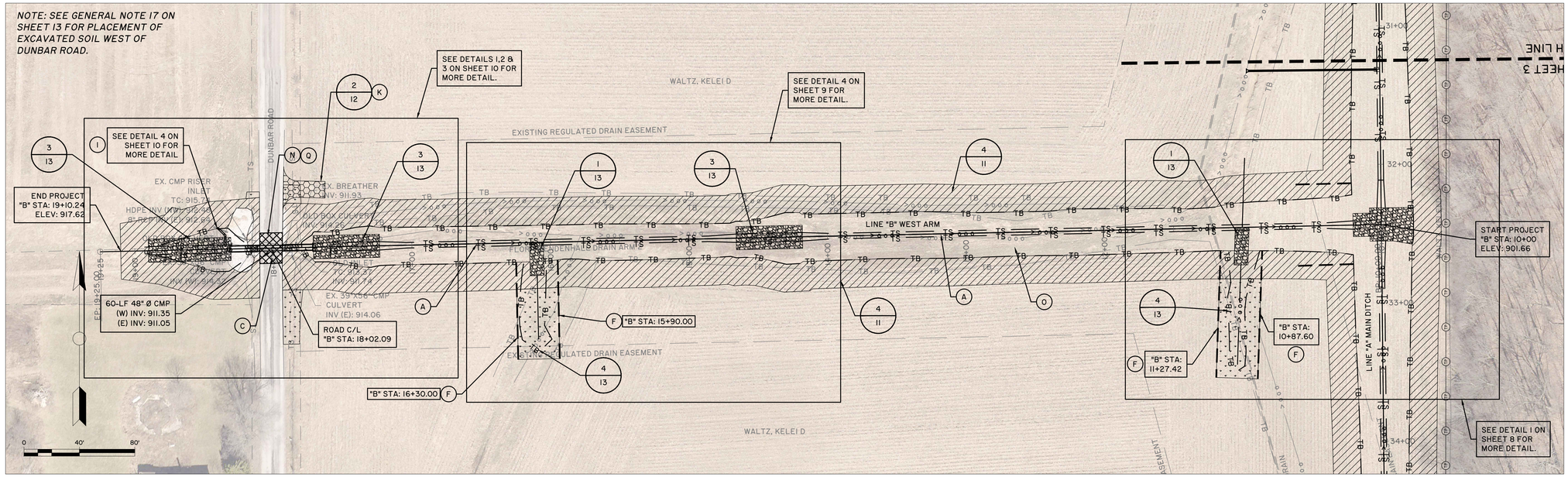
CERTIFIED BY:
GARY R. DUNCAN, JR., P.E.
DATE: 14-JAN-22

PROJECT NAME:
FLORA MENDENHALL DRAIN RECONSTRUCTION
PLAN & PROFILE MAIN DITCH
STA: LINE "A" 10+00 - 20+50

PLOT DATE: Jan 14, 2022 - 11:17 am

SHEET NO.
5 OF 13

Jan 14, 2022 - 11:17 am S:\E-Surv\Projects\Regulated Drains\Flora Mendenhall\Civil 3D\Production Drawings\ \ 238-19 Flora Mendenhall Construction Drawings 090519.dwg



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- (TP) TREE PROTECTION FENCE
- TB PROPOSED TOP BANK
- TS PROPOSED TOE SLOPE
- DL PROPOSED DAY LIGHT

XX / XX — DETAIL NUMBER / SHEET NUMBER — PROPOSED DETAIL BUBBLE

HATCH LEGEND

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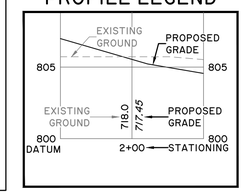
- APPROXIMATE EASEMENT LIMIT
- OHE — EXISTING OVERHEAD ELECTRIC
- UGT — EXISTING UNDERGROUND TELEPHONE
- X — EXISTING FENCE
- TB — EXISTING TOP BANK
- TS — EXISTING TOE SLOPE
- EXISTING FLOWLINE
- EXISTING UTILITY POLE

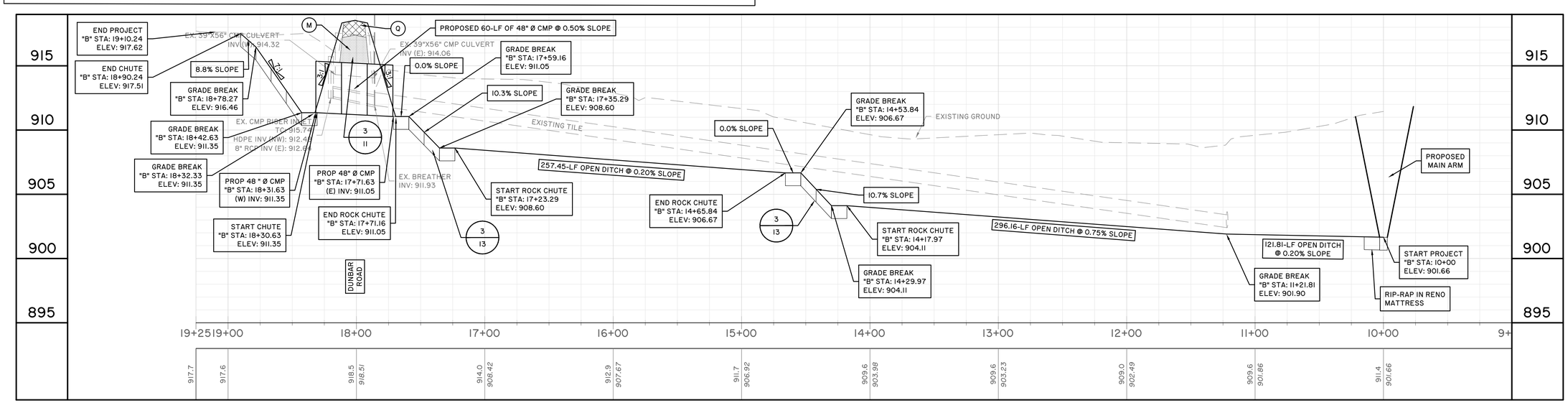
PROFILE LEGEND



PLAN VIEW
SCALE: 1"=40'

PROFILE VIEW
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=4'

REFER TO GENERAL NOTES ON SHEET 13



HAMILTON COUNTY, INDIANA

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PROJECT NO:	238-19
WATERSHED NO:	238
FIELD BOOK:	
FIELD BY:	BKR/SDF
DRAWN BY:	GRD/RQA
CHECKED BY:	GRD
DATE:	4/29/19

BY:	-
DATE:	-
REVISIONS:	-

GARY R. DUNCAN, JR. REGISTERED No. PE19900146 STATE OF INDIANA PROFESSIONAL ENGINEER

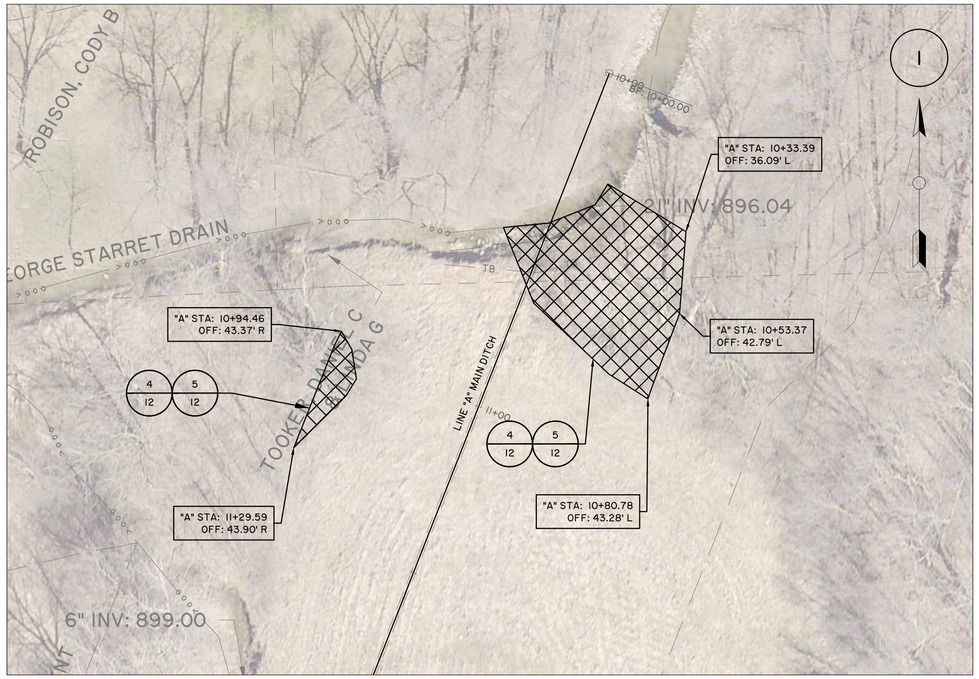
CERTIFIED BY:
GARY R. DUNCAN, JR., P.E.
DATE: 14-JAN-22

PROJECT NAME:
FLORA MENDENHALL DRAIN RECONSTRUCTION
PLAN & PROFILE WEST ARM
STA: LINE "B" 10+00 - 19+10.24

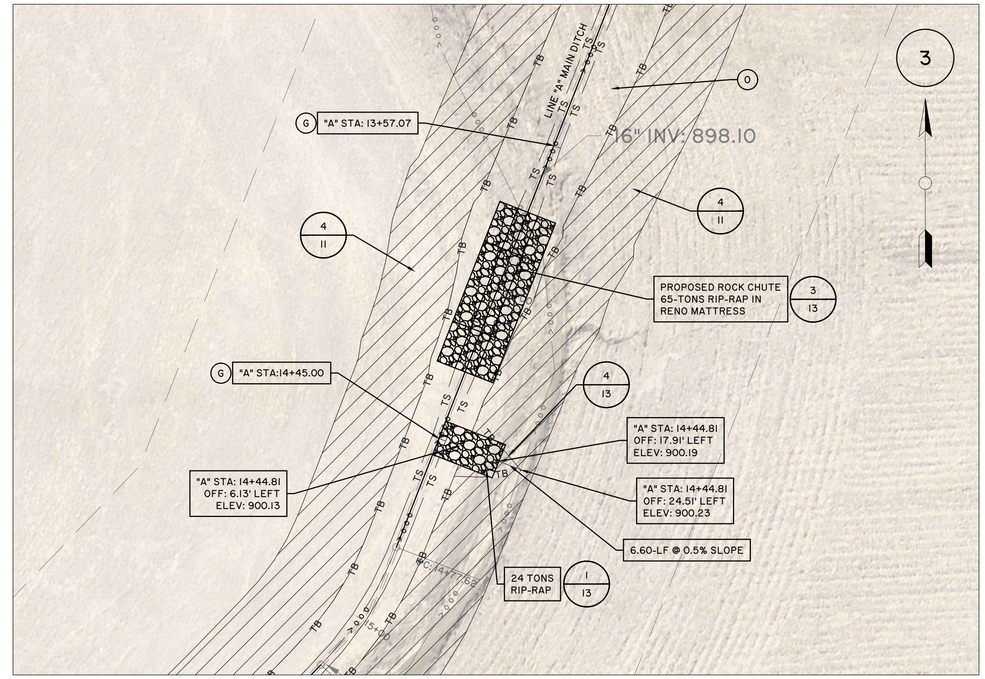
PLOT DATE: Jan 14, 2022 - 11:17 am

SHEET NO.
6 OF 13

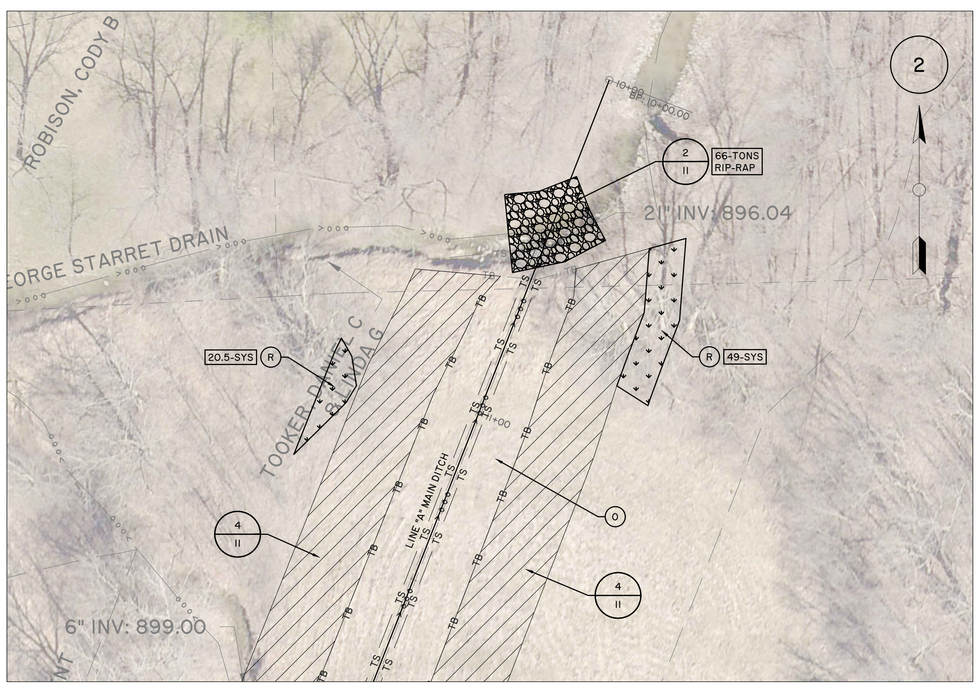
Jan 14, 2022 - 11:17 am S:\E-Surv\Projects\Regulated Drains\Flora Mendenhall\Civil 3D\Production Drawings\ \ 238-19 Flora Mendenhall Construction Drawings 090519.dwg



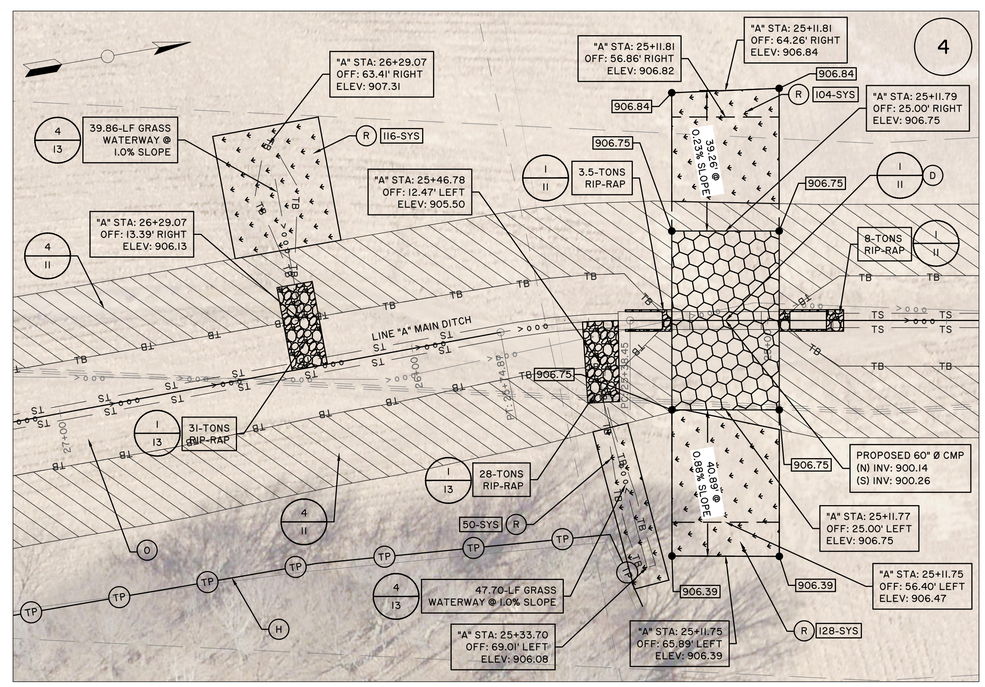
CLEARING AND DEMOLITION 0 20' 40'



GRASS WATERWAY, GRADING, AND EROSION CONTROL 0 20' 40'



EROSION CONTROL 0 20' 40'



GRASS WATERWAY, CROSSING, AND EROSION CONTROL 0 20' 40'

HAMILTON COUNTY, INDIANA

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HAMILTON COUNTY GOVERNMENT/JUDICIAL CENTER
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NOBLESVILLE, IN 46060
PHONE: (317) 776-8495
FAX: (317) 776-9628
SURVEYOR@HAMILTONCOUNTY.IN.GOV

PROJECT NO:	238-19
WATERSHED NO:	238
FIELD BOOK:	
FIELD BY:	BKR/SDF
DRAWN BY:	GRD/RQA
CHECKED BY:	GRD
DATE:	4/29/19

DATE:	BY:
-	-

REVISIONS: -

GARY R. DUNCAN, JR. REGISTERED No. PE19900146 STATE OF INDIANA PROFESSIONAL ENGINEER

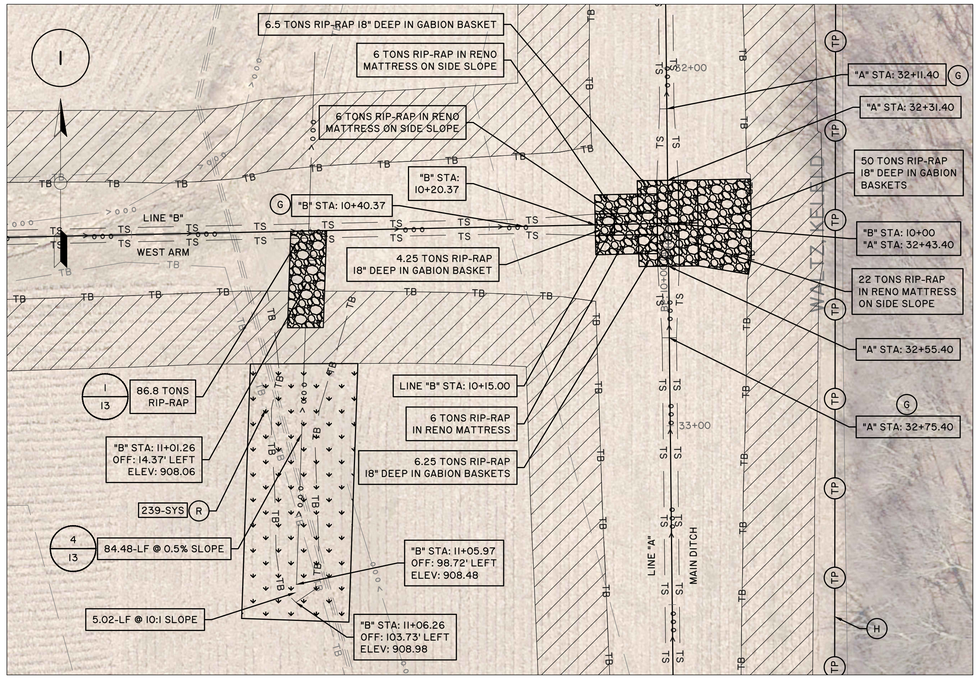
CERTIFIED BY:
GARY R. DUNCAN, JR., P.E.
DATE: 14-JAN-22

PROJECT NAME:
FLORA MENDENHALL DRAIN
RECONSTRUCTION
AREA DETAILS

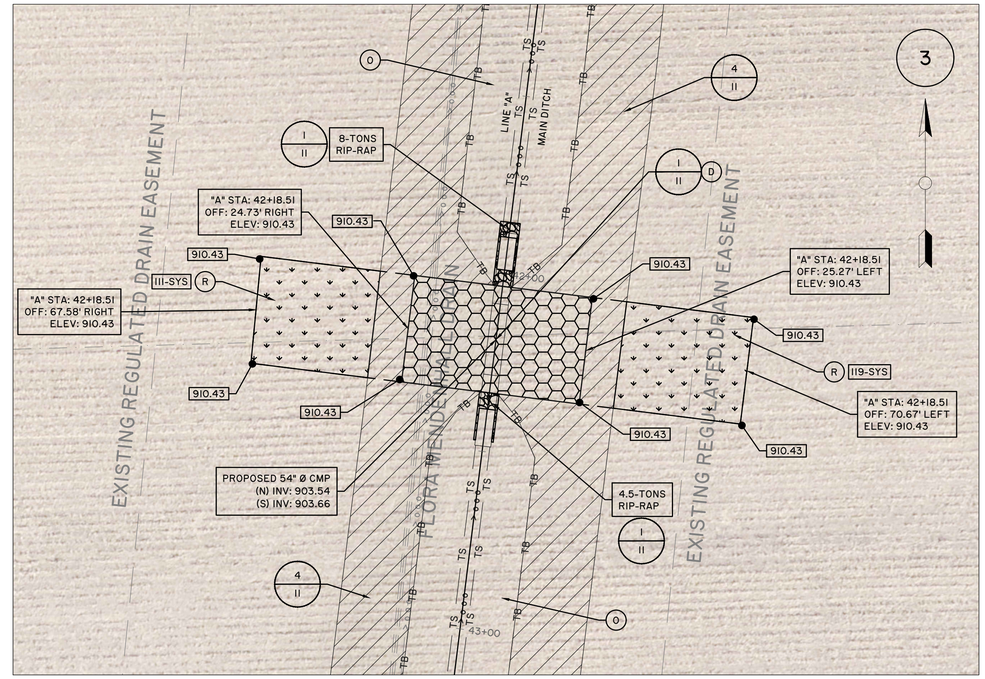
PLOT DATE: Jan 14, 2022 - 11:18 am

SHEET NO.
7 OF 13

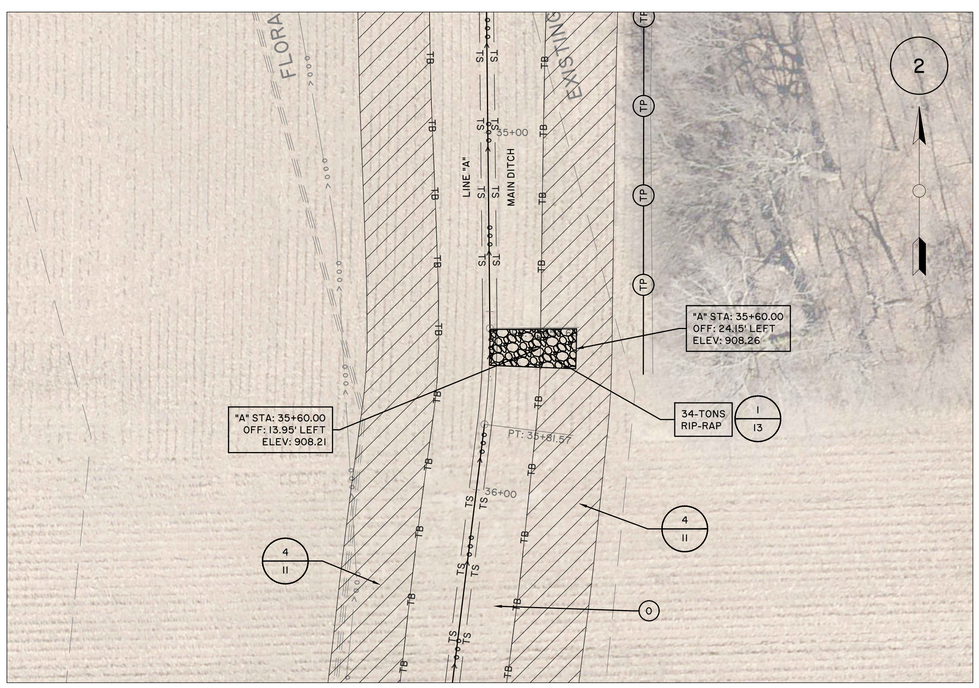
Jan 14, 2022 - 11:18 am S:\E-Surv\Projects\Regulated Drains\Flora Mendenhall\Civil 3D\Production Drawings\ \ 238-19 Flora Mendenhall Construction Drawings 090519.dwg



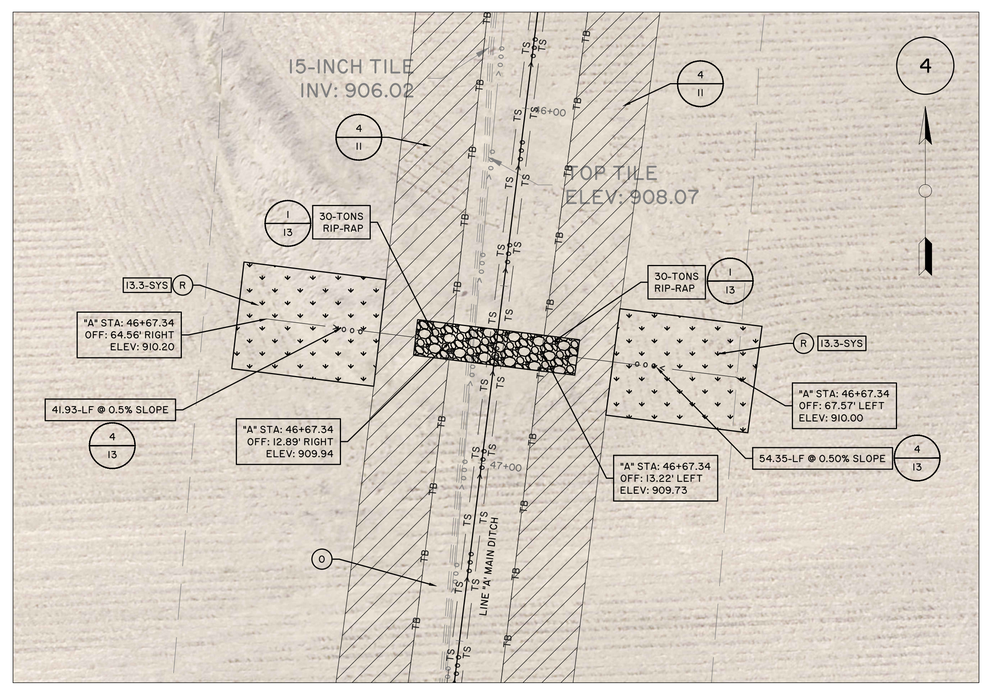
GRASS WATERWAY GRADING AND EROSION CONTROL 0 20' 40'



CROSSING AND EROSION CONTROL 0 20' 40'



EROSION CONTROL 0 20' 40'



GRASS WATERWAY GRADING AND EROSION CONTROL 0 20' 40'

HAMILTON COUNTY, INDIANA

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PROJECT NO:	238-19
WATERSHED NO:	238
FIELD BOOK:	
FIELD BY:	BKW/SDF
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DATE:	4/29/19

DATE:	BY:
-	-

REVISIONS: -

GARY R. DUNCAN, JR. REGISTERED No. PE19900146 STATE OF INDIANA PROFESSIONAL ENGINEER

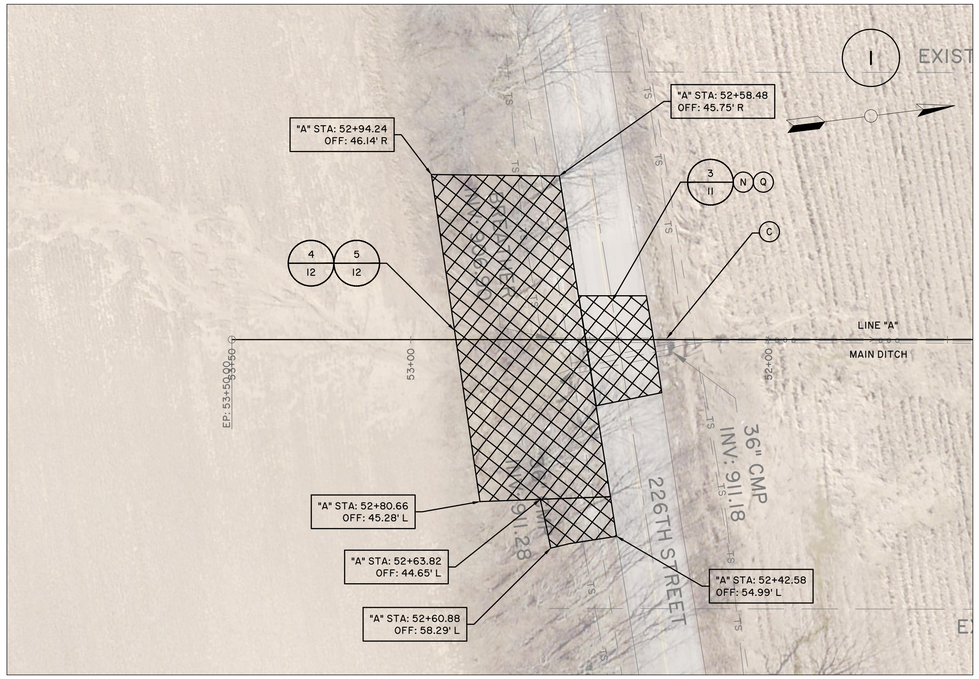
CERTIFIED BY:
GARY R. DUNCAN, JR., P.E.
DATE: 14-JAN-22

PROJECT NAME:
FLORA MENDENHALL DRAIN RECONSTRUCTION
DETAILS (4)

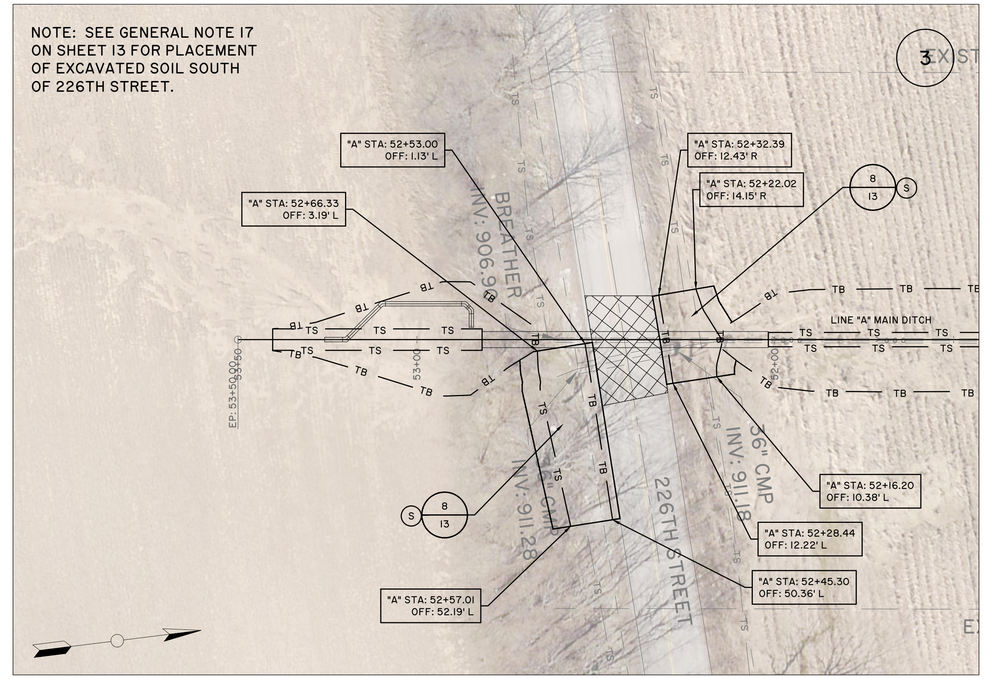
PLOT DATE: Jan 14, 2022 - 11:18 am

SHEET NO.
8 OF 13

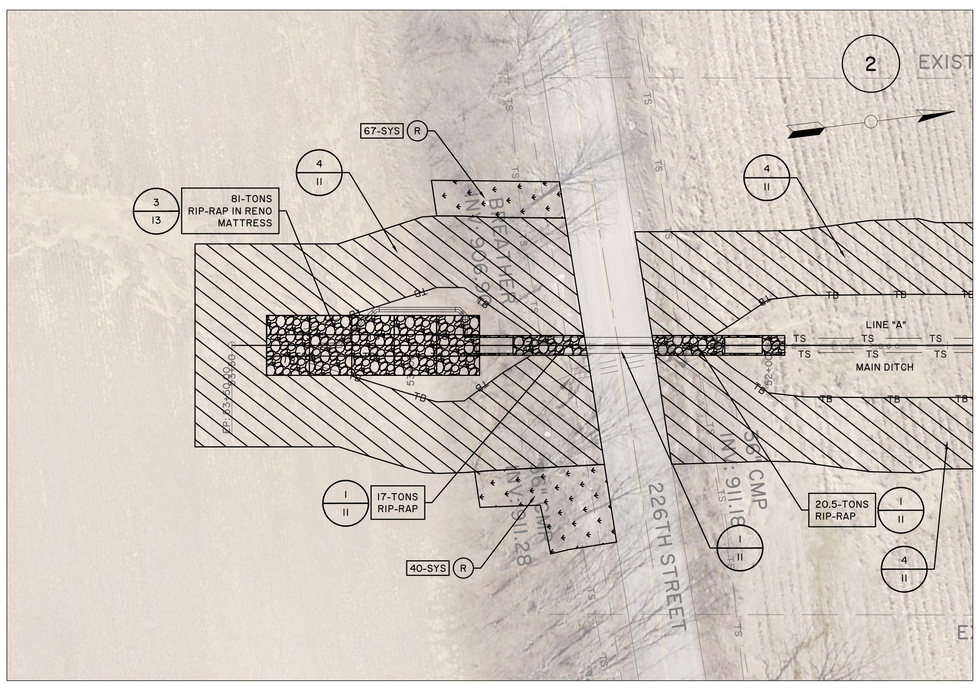
Jan 14, 2022 - 11:18 am S:\E-Surv\Projects\Regulated Drains\Flora Mendenhall\Civil 3D\Production Drawings\ \ 238-19 Flora Mendenhall Construction Drawings 090519.dwg



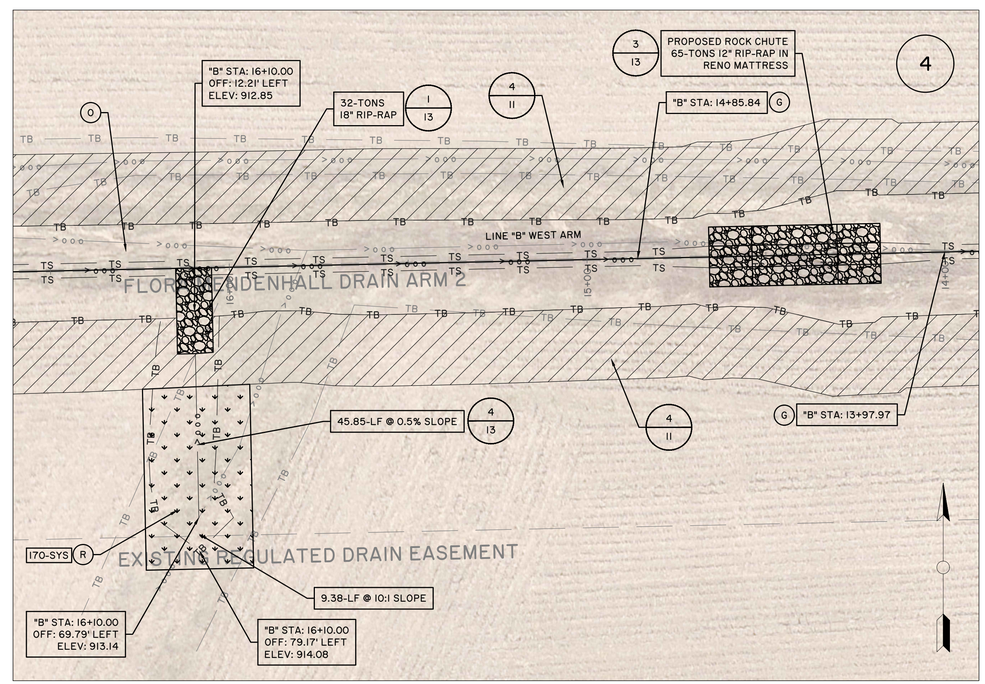
CLEARING AND DEMOLITION 0 20' 40'



ROADWAY EMBANKMENT GRADING 0 20' 40'



EROSION CONTROL 0 20' 40'



GRASS WATERWAY GRADING AND EROSION CONTROL 0 20' 40'

HAMILTON COUNTY, INDIANA

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RECONSTRUCTION
AREA DETAILS

PLOT DATE: Jan 14, 2022 - 11:19 am

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9 OF 13

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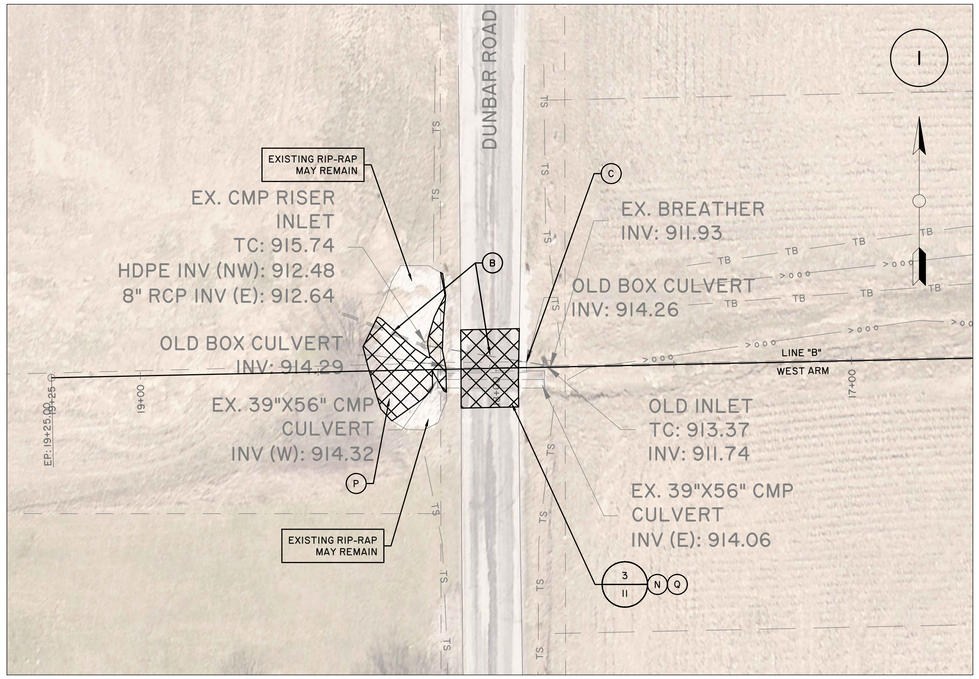
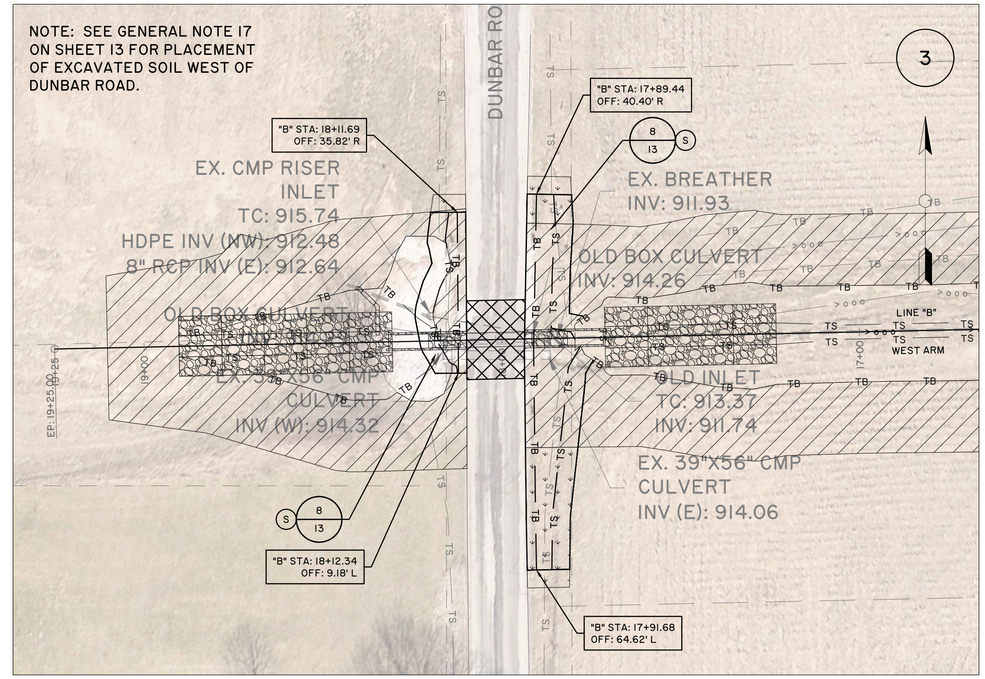
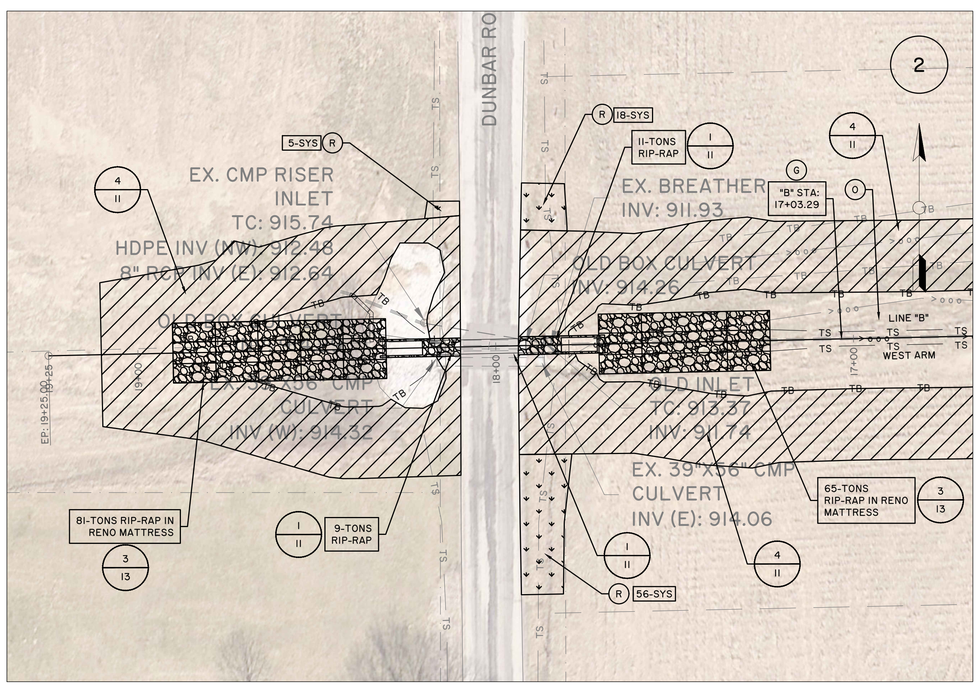


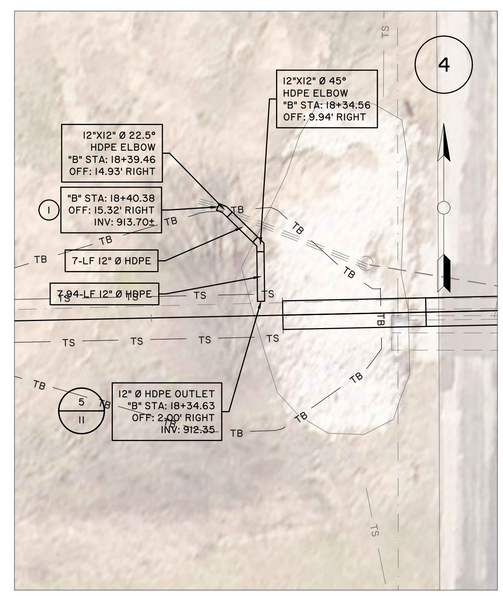
CLEARING AND DEMOLITION 0 20' 40'



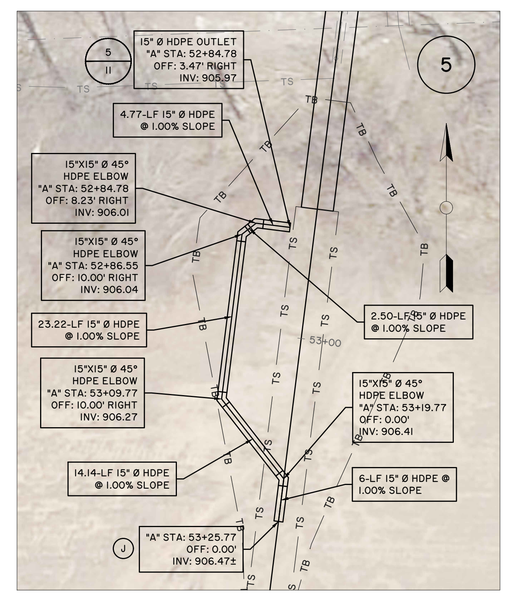
ROADWAY EMBANKMENT GRADING 0 20' 40'



EROSION CONTROL 0 20' 40'



TILE INTERCEPT 0 10' 20'



TILE INTERCEPT 0 10' 20'

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DETAILS (4)

PLOT DATE: Jan 14, 2022 - 11:19 am

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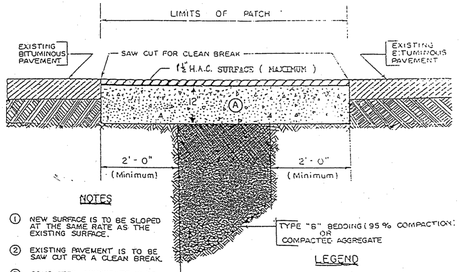
10 OF 13

Jan 14, 2022 - 11:19 am S:\E-Surv\Projects\Regulated Drains\Flora Mendenhall\Civil 3D\Production Drawings\ \ 238-19 Flora Mendenhall Construction Drawings 090519.dwg

DETAIL FOR CUT ROAD PATCHING

ON ALL CUTS, ROADS THAT REQUIRE THE EXISTING PAVEMENT TO BE RE-MOVED, THE DETAIL AS SHOWN BE-LOW SHALL BECOME A PART OF THIS PERMIT.



NOTES

1. NEW SURFACE IS TO BE SLOPED AT THE SAME RATE AS THE EXISTING SURFACE.
2. EXISTING PAVEMENT IS TO BE SAW CUT FOR A CLEAN BREAK.
3. COMPACTED AGGREGATE IS TO BE LAID AT 6" LIFTS AND IS TO BE COMPACTED TO A MINIMUM OF 95%.
4. TRENCH SPOIL IS TO BE RE-MOVED FROM THE WORK SITE.
5. 1½" H.A.C. #11 SURFACE.
6. BITUMINOUS TACK APPLIED AS PER INDIANA DEPT. OF HIGHWAYS STANDARD SPEC-IFICATIONS-1988 SECTION 409 & 902.

LEGEND

(A) PLAIN CONCRETE IS TO BE FINISHED ½" BELOW THE EXISTING PAVEMENT.

3

HAMILTON COUNTY HIGHWAY DEPARTMENT

REVISED: 1-14-92

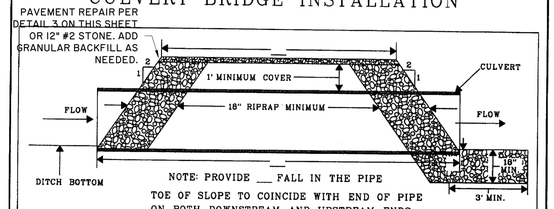
RECOMENDED: _____ HAMILTON COUNTY ENGINEER — DATE 6-17-91

APPROVED: _____ HAMILTON COUNTY DIRECTOR — DATE 6-28-91

STANDARD PLAN U-1

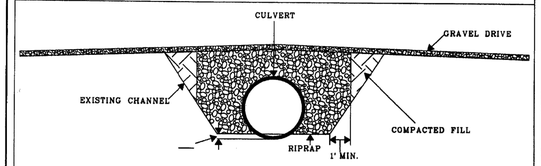
OFFICE OF THE HAMILTON COUNTY SURVEYOR

CULVERT BRIDGE INSTALLATION



NOTE: PROVIDE ___ FALL IN THE PIPE TOE OF SLOPE TO COINCIDE WITH END OF PIPE ON BOTH DOWNSTREAM AND UPSTREAM ENDS.

LONGITUDINAL SECTION



NOTE: GOOD COMPACTION OF THE FILL IS CRITICAL. THE CULVERT SHOULD BE DEPRESSED BELOW THE CHANNEL BOTTOM THE AMOUNT SHOWN ON THE PLAN.

ELEVATION

(DRAWING NOT TO SCALE)

LENGTH OF PIPE: ____ DIAMETER AND PIPE MATERIAL: 1. _____ OR 2. _____

WIDTH OF ROADWAY: ____

DEPRESSION BELOW FLOWLINE: ____ GRADIENT OF PIPE: ____

HAMILTON COUNTY SURVEYOR'S OFFICE

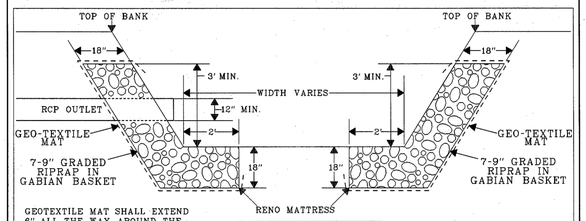
REVISED: 1 FEB 2002

APPROVED: _____ KENTON C. WARD, HAMILTON COUNTY SURVEYOR — DATE 2/1/02

STANDARD PLAN C-2

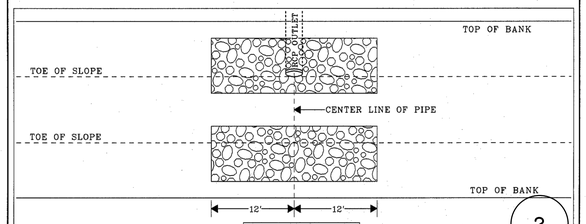
OFFICE OF THE HAMILTON COUNTY SURVEYOR

BANK ARMORMENT AT OUTLET PIPE IN OPEN CHANNELS



GEOTEXTILE MAT SHALL EXTEND 6" ALL THE WAY AROUND THE PERIMETER OF THE RENO MATTRESS.

CROSS SECTION



PLAN VIEW

2

(DRAWING NOT TO SCALE)

HAMILTON COUNTY SURVEYOR'S OFFICE

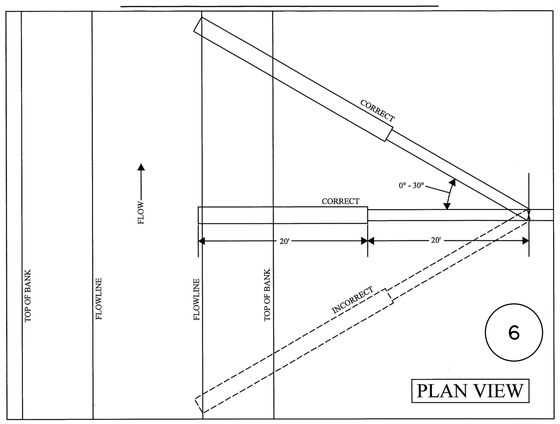
REVISED: 1 JAN 2000

APPROVED: _____ KENTON C. WARD, HAMILTON COUNTY SURVEYOR — DATE 4 JAN 00

STANDARD PLAN O-4

OFFICE OF THE HAMILTON COUNTY SURVEYOR

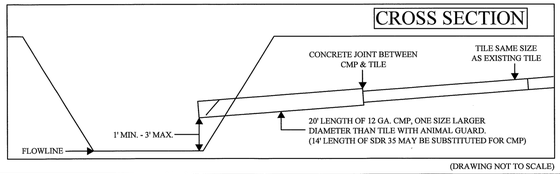
DRAIN OUTLET DETAIL #1



6

PLAN VIEW

CROSS SECTION



(DRAWING NOT TO SCALE)

HAMILTON COUNTY SURVEYOR'S OFFICE

REVISED: 31 OCT 2017

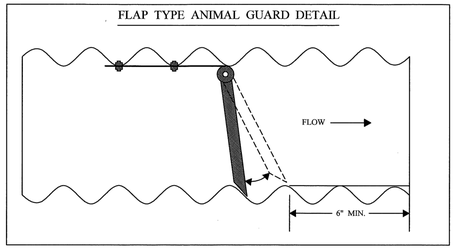
APPROVED: _____ KENTON C. WARD, HAMILTON COUNTY SURVEYOR — DATE 10/31/2017

STANDARD PLAN O - 1

OFFICE OF THE HAMILTON COUNTY SURVEYOR

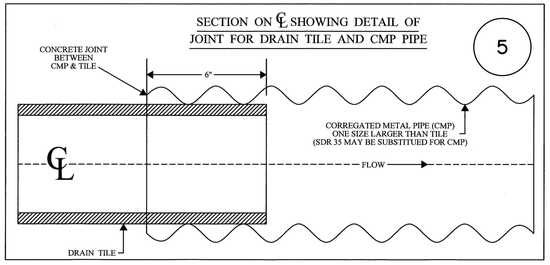
DRAIN OUTLET DETAIL #2

FLAP TYPE ANIMAL GUARD DETAIL



SECTION ON ℄ SHOWING DETAIL OF JOINT FOR DRAIN TILE AND CMP PIPE

5



(DRAWING NOT TO SCALE)

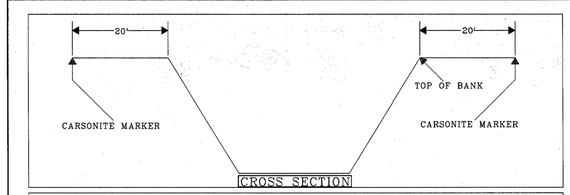
HAMILTON COUNTY SURVEYOR'S OFFICE

REVISED: 12 APR 2017

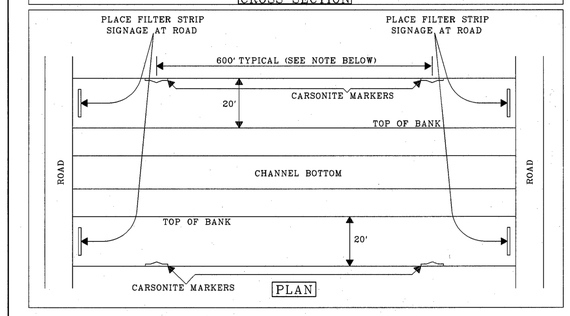
APPROVED: _____ KENTON C. WARD, HAMILTON COUNTY SURVEYOR — DATE 1 MAY 17

STANDARD PLAN O - 2

OFFICE OF THE HAMILTON COUNTY SURVEYOR



CROSS SECTION



PLAN

FILTER STRIP

4

PLACE SIGNS EVERY 600 FEET. IF DISTANCE BETWEEN ROADS IS LESS THAN 600 FEET, PLACE ONE SIGN IN CENTER POINT OF THE FILTER STRIP BETWEEN ROADS.

IF THE CONSERVATION ALTERNATE IS USED FOR CLEARING. FILTER STRIP WILL BE ON OPERATION SIDE ONLY.

(DRAWING NOT TO SCALE)

HAMILTON COUNTY SURVEYOR'S OFFICE

REVISED: 1 JAN 2000

APPROVED: _____ KENTON C. WARD, HAMILTON COUNTY SURVEYOR — DATE 4 JAN 00

STANDARD PLAN OD-9

HAMILTON COUNTY, INDIANA

HAMILTON COUNTY SURVEYOR'S OFFICE
HAMILTON COUNTY GOVERNMENT/JUDICIAL CENTER
ONE HAMILTON COUNTY SQUARE, SUITE 188
NOBLESVILLE, IN 46060
PHONE: (317) 776-8495
FAX: (317) 776-9628
SURVEYOR@HAMILTONCOUNTY.IN.GOV

PROJECT NO:	238-19
WATERSHED NO:	238
FIELD BOOK:	
FIELD BY:	BKR/SDF
DRAWN BY:	GRD/RQA
CHECKED BY:	GRD
DATE:	4/29/19

REVISIONS: -

DATE: - BY: -

GARY R. DUNCAN, JR. REGISTERED No. PE19900146 STATE OF INDIANA PROFESSIONAL ENGINEER

CERTIFIED BY: _____ GARY R. DUNCAN, JR., P.E.
DATE: 14-JAN-22

PROJECT NAME: FLORA MENDENHALL DRAIN RECONSTRUCTION DETAILS

PLOT DATE: Jan 14, 2022 - 11:19 am

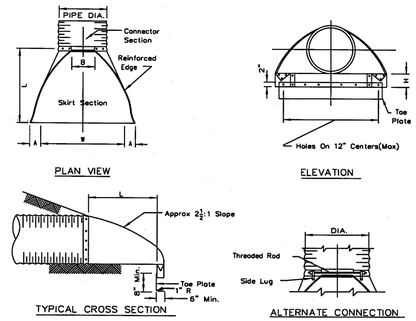
SHEET NO. 11 OF 13

Jan 14, 2022 - 11:19 am S:\E-Surv\Projects\Regulated Drains\Flora Mendenhall\Civil 3D\Production Drawings\ \ 238-19 Flora Mendenhall Construction Drawings 090519.dwg

OFFICE OF THE HAMILTON COUNTY SURVEYOR

For Use on CMP in Agricultural Areas Only

(DRAWING NOT TO SCALE)



PIPE DIA	SHEET THICKNESS	DIMENSIONS A (+/- 1")	B (Max.)	H (+/- 1")	L (+/-1")	W (+/- 2")
12"	.064"	6"	6"	6"	21"	24"
15"	.064"	7"	8"	6"	26"	30"
18"	.064"	8"	10"	6"	31"	36"
24"	.064"	10"	13"	6"	41"	48"
30"	.079"	12"	16"	6"	51"	60"
36"	.079"	14"	19"	9"	60"	72"
42"	.109"	16"	22"	11"	69"	84"
48"	.109"	18"	27"	12"	78"	90"
54"	.109"	18"	30"	12"	84"	102"
60"	.109"-.138	18"	33"	12"	87"	114"

3

NOTES:
1. Toe plate to be punched to match holes in skirt lip. 3/8" galv. bolts to be furnished. Length of toe plate is W+10" for 12" to 30" dia. pipe and W+22" for 36" to 60" dia. pipe.
2. Skirt section for 12" to 30" dia. pipe to be made in one piece.
3. Skirt section for 36" to 54" pipe to be made from two sheets joined by riveting or bolting on center line, 60" may be constucted in 3 pieces.
4. Connector section, corner plate and toe plate to be same sheet thickness as skirt.
5. End sections and fittings are to be galvanized steel or aluminum alloy for use with like pipe.
6. Where flared end sections are to be used with bituminous coated and paved metal pipe, they are to be galvanized only.

HAMILTON COUNTY SURVEYOR'S OFFICE

Metal End Section

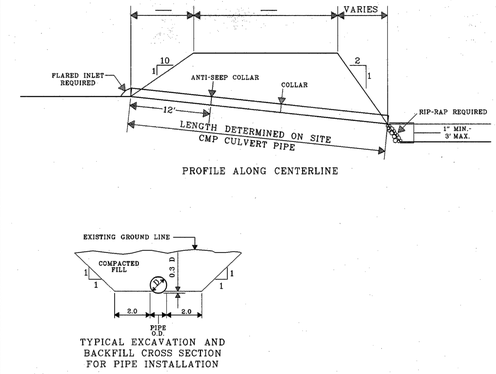
REVISED: 7 DEC 2006

APPROVED: KENTON C. WARD, HAMILTON COUNTY SURVEYOR — DATE 7DEC06

STANDARD PLAN OD-10

OFFICE OF THE HAMILTON COUNTY SURVEYOR

SURFACE WATER PIPE



DETAIL OF MATERIALS

1. PIPE: NON-PERFORATED CORRUGATED METAL CULVERT PIPE
2. END SECTIONS: STANDARD METAL FLARED END SECTION
3. ANTI-SEEP COLLAR: 4' X 4' METAL, OR POURED CONCRETE, SET BETWEEN THE CORRUGATIONS OF THE PIPE.

1

(DRAWING NOT TO SCALE)

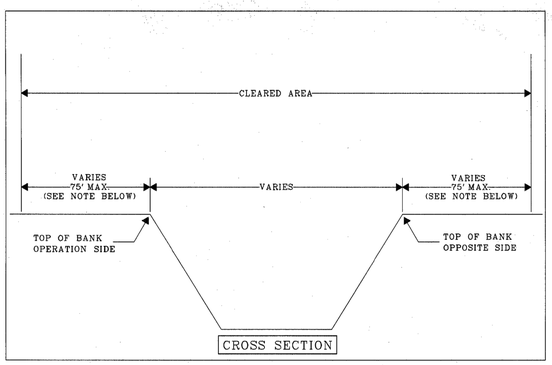
HAMILTON COUNTY SURVEYOR'S OFFICE

REVISED: 1 JAN 2000

APPROVED: KENTON C. WARD, HAMILTON COUNTY SURVEYOR — DATE 4JAN00

STANDARD PLAN OD-8

OFFICE OF THE HAMILTON COUNTY SURVEYOR



CLEARING

CLEARING IS TO BE DONE FROM TOP OF BANK TO TOP OF BANK, _30_ FEET ON THE OPERATION SIDE AND _30_ FEET ON THE OPPOSITE SIDE.

5

(DRAWING NOT TO SCALE)

HAMILTON COUNTY SURVEYOR'S OFFICE

REVISED: 1 JAN 2000

APPROVED: KENTON C. WARD, HAMILTON COUNTY SURVEYOR — DATE 4JAN00

STANDARD PLAN OD-2

OFFICE OF THE HAMILTON COUNTY SURVEYOR

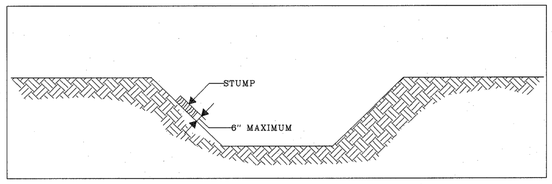
CLEARING SPECIFICATIONS

WHAT TO CLEAR

1. Clear all woody vegetation; ie,trees, willows, brush, briars and cattails.
2. Clear both ditch banks to the top of the bank. Clear the ditch bottom and remove all debris and obstructions within the channel.
3. On the working side, clear only enough room to complete the intended operation; such as spreading spoil or installing an erosion control structure. If more than 75 feet is needed, the Hamilton County Surveyor must be contacted before additional clearing can be done.

OTHER NOTES

1. Cut trees as shown in the diagram below. Cut the stump flush with the ground, no more than 6 inches high. Cut the stump at the same angle as the ditch bank.
2. Paint stumps with an approved EPA brush killer according to the contract specifications.
3. Remove stumps if the bank is resloped or for proper channel alignment.



4

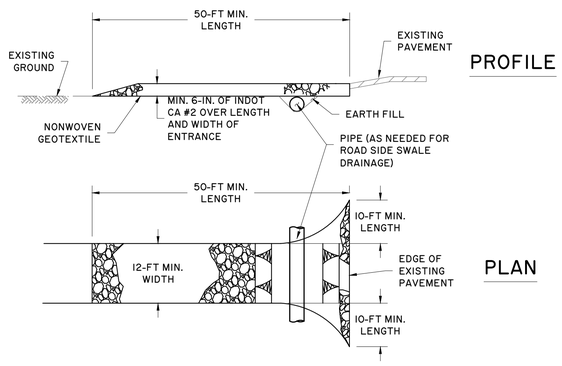
(DRAWING NOT TO SCALE)

HAMILTON COUNTY SURVEYOR'S OFFICE

REVISED: 1 JAN 2000

APPROVED: KENTON C. WARD, HAMILTON COUNTY SURVEYOR — DATE 4JAN00

STANDARD PLAN OD-1



CONSTRUCTION SPECIFICATIONS

1. PLACE STABILIZED CONSTRUCTION ENTRANCE (SCE) IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 12 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY.
3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE.
4. PLACE INDOT CA #2 CRUSHED AGGREGATE (1 TO2.5 INCHES IN SIZE) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

CONSTRUCTION ENTRANCE DETAIL 2

HAMILTON COUNTY, INDIANA
HAMILTON COUNTY SURVEYOR'S OFFICE
HAMILTON COUNTY GOVERNMENT/JUDICIAL CENTER
ONE HAMILTON COUNTY SQUARE, SUITE 188
NOBLESVILLE, IN 46060
PHONE: (317) 776-8495
FAX: (317) 776-9628
SURVEYOR@HAMILTONCOUNTY.IN.GOV

PROJECT NO:	238-19
WATERSHED NO:	238
FIELD BOOK:	
FIELD BY:	BKR/SDF
DRAWN BY:	GRD/RQA
CHECKED BY:	GRD
DATE:	4/29/19

DATE:	BY:
-	-

REVISIONS: -

GARY R. DUNCAN, JR. REGISTERED No. PE19900146 STATE OF INDIANA PROFESSIONAL ENGINEER

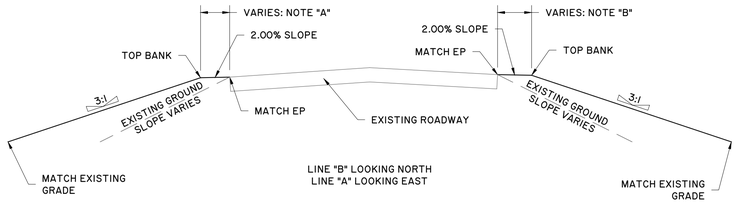
CERTIFIED BY: GARY R. DUNCAN, JR., P.E.
DATE: 14-JAN-22

PROJECT NAME: FLORA MENDENHALL DRAIN RECONSTRUCTION DETAILS

PLOT DATE: Jan 14, 2022 - 11:20 am

SHEET NO. 12 OF 13

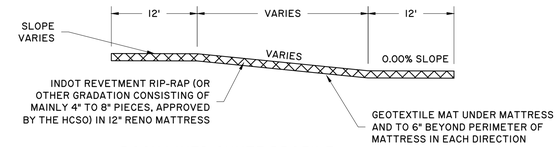
Jan 14, 2022 - 11:20 am S:\E-Surv\Projects\Regulated Drains\Flora Mendenhall\Civil 3D\Production Drawings\ \ 238-19 Flora Mendenhall Construction Drawings 090519.dwg



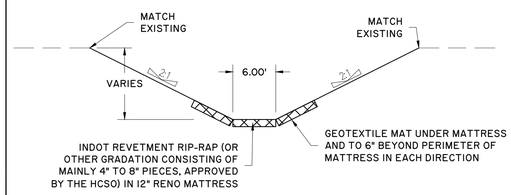
NOTE "A"
226 NORTH SIDE: 1.77-FEET
DUNBAR WEST: 2.355-FEET [2.25-2.46]

NOTE "B"
226 SOUTH SIDE: 2.07-FEET [2.05-2.09]
DUNBAR EAST: 2.595-FEET [2.46-2.73]

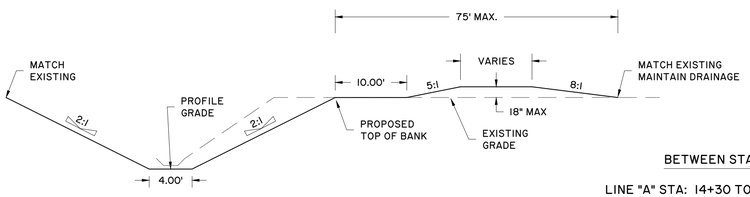
ROADWAY EMBANKMENT (8)



ROCK LINED CHUTE PROFILE



ROCK LINED CHUTE SECTIONS (3)

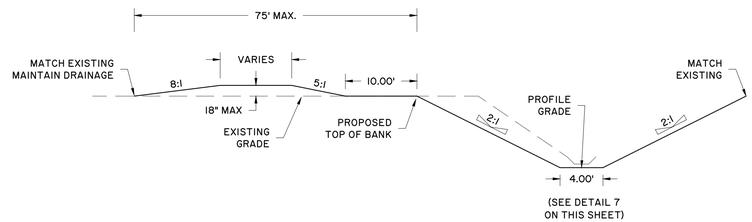


BETWEEN STATIONS

LINE "A" STA: 14+30 TO 14+60
LINE "A" STA: 24+96.76 TO 26+14.07
LINE "A" STA: 26+44.07 TO 32+13.62
LINE "A" STA: 32+72.42 TO 35+80.67

LINE "B" STA: 10+87.60 TO 11+27.42
LINE "B" STA: 15+90.00 TO 16+30.00

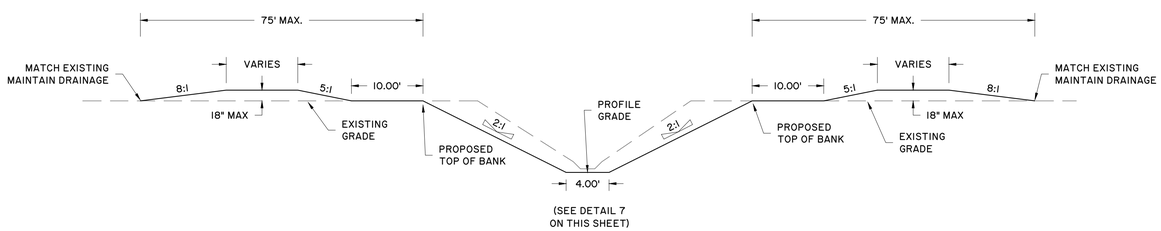
TYPICAL OPEN DITCH SOIL MATERIAL PLACEMENT - RIGHT SIDE ONLY (6)



BETWEEN STATIONS

LINE "A" STA: 10+75 TO 13+20
LINE "A" STA: 10+84.05 - 13+20

TYPICAL OPEN DITCH SOIL MATERIAL PLACEMENT - LEFT SIDE ONLY (5)

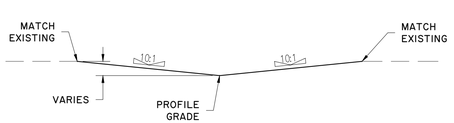


BETWEEN STATIONS

LINE "A" STA: 13+20 TO 14+30
LINE "A" STA: 14+60 TO 24+96.76
LINE "A" STA: 35+80.67 TO 41+96.01
LINE "A" STA: 42+41 TO 46+52.34
LINE "A" STA: 46+82.34 TO 52+50 ±

LINE "B" STA: 10+42.00 - 10+87.60
LINE "B" STA: 11+27.42 - 15+90
LINE "B" STA: 16+30.00 - 17+93.09

TYPICAL OPEN DITCH SOIL MATERIAL PLACEMENT - BOTH SIDES (2)



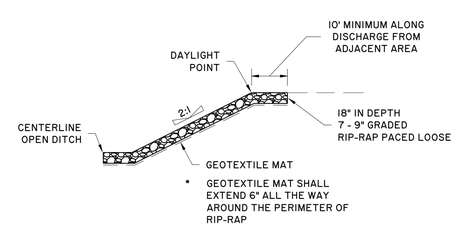
SURFACE SWALE DETAIL (4)

DITCH BOTTOM WIDTH

1. DITCH BOTTOM WIDTH IS 4.00'J IN WIDTH EXCEPT AS NOTED BELOW.
2. DITCH BOTTOM WIDTH IS 6.00' IN WIDTH BETWEEN THE FOLLOWING STATIONS. THE TRANSITION BETWEEN 6.00' BOTTOM AND 4.00' BOTTOM SHALL OCCUR OVER A DISTANCE OF 20-FEET.

Line "A" 51+55.49 - 52+03.44
Line "A" 32+31.40 - 32+55.40
Line "A" 13+77.07 - 14+25.00
Line "B" 10+00.00 - 10+20.37
Line "B" 14+17.97 - 14+65.84
Line "B" 17+23.29 - 17+71.16

DITCH BOTTOM WIDTH (7)



TYPICAL BANK ARMORMENT DETAIL (1)

GENERAL NOTES

1. ALL EXISTING TILES CONNECTED TO THE EXISTING OPEN DITCH OR TILE AND ANY EXISTING TILES CROSSED BY THE NEW OPEN DITCH OR TILE SHALL BE CONNECTED TO THE NEW OPEN DITCH OR TILE SUCH THAT POSITIVE DRAINAGE IS PROVIDED TO THE LATERAL TILE. REFER TO DETAIL O-3. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF AN EXISTING TILE IS UNCOVERED THAT IS LOWER THAN THE PROPOSED OPEN DITCH OR TILE. ANY SUCH CONNECTIONS SHALL BE DOCUMENTED TO INCLUDE THE STATION AND INVERT AND PROVIDED TO THE INSPECTOR.
2. FOR ALL WORK UNDER POWER LINES:
   a. BE AWARE OF THE POTENTIAL FOR ELECTROSTATIC DISCHARGE.
   b. CONTRACTOR SHALL LIMIT TIME WORKING UNDER THE POWER LINES TO THAT TIME NECESSARY FOR THE WORK.
   c. CONTRACTOR IS ADVISED TO GROUND ALL EQUIPMENT.
   d. CONTRACTOR SHALL NOT PARK OR STORE EQUIPMENT OR MATERIALS UNDER THE POWER LINES.
3. EXCAVATED MATERIAL SHALL BE SPREAD IN ACCORDANCE WITH DETAILS 2, 5, AND 6 OF SHEET 13 OF THE CONSTRUCTION DRAWINGS SUCH THAT WATER DOES NOT POND OR POOL AND SUCH THAT THE EXISTING FLOW OF WATER IS NOT BLOCKED OR IMPEDED. THE FINISHED SPOIL SHALL BE LEFT IN A SMOOTH MANNER, SO THAT ANY AVERAGE CROP FARM TRACTOR CAN BE DRIVEN OVER ALL PARTS OF IT WITH A REASONABLE DEGREE OF SAFETY AND ECONOMY. ALL SPOIL SHALL BE LEVELED TO THE SATISFACTION OF THE INSPECTOR. REFER TO SPECIAL PROVISION/TECHNICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND FOR SPREADING SOIL MATERIAL BEYOND THE LIMITS OF THE EASEMENT.
4. THE ALIGNMENT OF THE EXISTING TILE IS BASED ON THE BEST AVAILABLE DATA, BUT IS APPROXIMATE. THE ACTUAL LOCATION AND LENGTH OF THE EXISTING TILE MAY VARY FROM THAT SHOWN. CONTRACTOR SHALL NOTIFY HCSO IMMEDIATELY IF THE ALIGNMENT OF THE EXISTING TILE VARIES GREATLY FROM THAT SHOWN.
5. TRENCHING OPERATIONS FOR TILE REMOVAL AND FOR OPEN DITCH EXCAVATION AND SPOIL MATERIAL STOCKPILING SHALL ENDEAVOR TO PRESERVE THE EXISTING SOIL LAYER CONFIGURATION TO THE GREATEST EXTENT POSSIBLE. AS WORK PROGRESSES, THE EXISTING TOPSOIL SHALL BE STRIPPED AND STOCKPILED SEPARATE FROM THE UNDERLYING GENERAL EXCAVATED MATERIAL. THE TOPSOIL SHALL NOT BE INTERMIXED WITH THE GENERAL EXCAVATION MATERIAL. WHEN BACKFILLING THE TRENCH, THE GENERAL EXCAVATED MATERIAL SHALL BE PLACED BACK INTO THE TRENCH FIRST AND TO A SUFFICIENT DEPTH TO ACCOUNT FOR THE SETTLEMENT OF THE MATERIAL ITSELF AS WELL AS THE TOPSOIL PLACED ABOVE IT. THE TOPSOIL SHALL THEN BE PLACED AS THE FINAL BACKFILL MATERIAL TO A DEPTH THAT MATCHES THE EXISTING CONDITION TO THE GREATEST EXTENT POSSIBLE. SUCH TOPSOIL IS EXPECTED TO EXTEND SLIGHTLY ABOVE THE ADJACENT EXISTING GROUND UNTIL THE TRENCH BACKFILL CONSOLIDATES AND SETTLES. THE TOPSOIL SHALL BE NEATLY ROUNDED OVER THE TRENCH. FOR OTHER EARTHWORK OPERATIONS, TOPSOIL SHALL BE REDISTRIBUTED OVER THE AREAS OUTSIDE OF THE OPEN DITCH TO A DEPTH THAT MATCHES THE EXISTING CONDITION TO THE GREATEST EXTENT POSSIBLE.
6. FOR TRANSMISSION PIPELINE FACILITIES (SUCH AS THOSE OWNED BY BUCKEYE, MARATHON, PANHANDLE, COUNTRY MARK, VECTREN, ETC.), THE OWNER OF THE FACILITY SHALL BE NOTIFIED PRIOR TO ALL WORK IN OR AROUND THEIR FACILITIES. IN THE EVENT THAT THE OWNER OF THE FACILITY REQUIRES TO BE ON-SITE DURING ANY WORK IN OR AROUND THEIR FACILITIES, CONTRACTOR SHALL NOT PERFORM ANY WORK WITHOUT SUCH PERSONNEL OR DESIGNATED REPRESENTATIVES ON-SITE.
7. ALL STORM SEWER CONSTRUCTION SHALL BE PER HCSO DETAILS AND SPECIFICATIONS.
8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ALL UTILITY LOCATIONS BEFORE CONSTRUCTION BEGINS.
9. ALL CONSTRUCTION ACTIVITY ASSOCIATED WITH THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE O.S.H.A. STANDARDS.
10. ALL STRUCTURES SHALL HAVE A PRE-CAST TOP AS REQUIRED TO FIT THE CASTING.
11. ANY TREE CLEARING FOR THIS PROJECT SHALL BE REVIEWED BY AND APPROVED BY THE HCSO INSPECTOR BEFORE PERFORMING ANY CLEARING OPERATIONS. THE CONTRACTOR SHALL LOCATE THE EXISTING TILE PRIOR TO STARTING ANY CLEARING OPERATIONS. ALL CLEARING SHALL CONFORM TO DETAILS 4 & 5 ON SHEET 12.
12. NO TREES MAY BE REMOVED FROM THE PROPERTY WITHOUT PERMISSION FROM THE PROPERTY OWNER. THE CONTRACTOR SHALL MEET WITH EACH PROPERTY OWNER AND OBTAIN SUCH PERMISSION PRIOR TO STARTING ANY CLEARING ACTIVITY. DURING THAT MEETING, THE CONTRACTOR SHALL DISCUSS MARKETABLE TIMBER AND THE SALVAGE OF ANY TIMBER MATERIAL FOR OTHER USES SUCH AS FIREWOOD. THE PROPERTY OWNER HAS FIRST RIGHTS TO ANY MARKETABLE TREES WITHIN THE PROJECT LIMITS. THE PROPERTY OWNER MUST RELINQUISH THOSE RIGHTS TO THE CONTRACTOR IN WRITING BEFORE THE CONTRACTOR COULD SELL ANY MARKETABLE TIMBER. ANY MATERIAL SALVAGED TO THE PROPERTY OWNER REQUIRES A WAIVER FROM THE PROPERTY OWNER PER THE CLEARING SECTION OF THE SPECIFICATIONS AND CLEARING SECTION OF THE SPECIAL PROVISIONS. COMMON PRACTICE IS FOR THE CONTRACTOR TO MOVE ANY MATERIAL IDENTIFIED BY THE PROPERTY OWNER TO BE SALVAGED TO JUST OUTSIDE OF THE LIMITS OF THE REGULATED DRAIN EASEMENT. IN THE EVENT THAT THE PROPERTY OWNER IDENTIFIES A TREE OR TREES THAT ARE MARKETABLE AND THAT SUCH A TREE OR TREES NEED TO BE REMOVED BY A TIMBER HARVESTING COMPANY, THE CONTRACTOR SHALL PROVIDE NOTICE TO THE PROPERTY OWNER THAT SUCH WORK MUST BE COMPLETED BEFORE THE DEADLINES ASSOCIATED WITH THIS PROJECT OR SUCH MARKETABLE TREE(S) WILL BE REMOVED BY THIS CONTRACT.
13. SURFACE WATER DRAIN PIPE PER HCSO DETAIL OD-8 SHALL BE INSTALLED AS SHOWN ON THE PLANS AND IN ALL INSTANCES WHERE THE EXCESS SOIL SPREAD IN ACCORDANCE WITH HCSO DETAIL OD-6 WILL BLOCK THE SURFACE RUNOFF FROM AREAS UPSTREAM OF THE EXCESS SOIL SPREADING AREA. SUCH SURFACE WATER DRAIN PIPE SHALL BE INSTALLED EVEN IF NOT SPECIFICALLY INDICATED ON THE PLANS. SURFACE DRAIN LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED IN FIELD BASED ON ACTUAL LOW POINT ON BACK SLOPE OF SOIL STOCKPILE.
14. WHERE THE PROPOSED OPEN DITCH DOES NOT FOLLOW THE EXISTING TILE, THE EXISTING TILE SHALL BE REMOVED IN ITS ENTIRETY OR DEMOLISHED IN PLACE. IF DEMOLISHED IN PLACE, THE TILE SHALL BE CRUSHED COMPLETELY IN TO PIECES NO LARGER THAN 6-INCHES. THE TRENCH FOR SUCH WORK SHALL BE EXCAVATED AND BACKFILLED IN ACCORDANCE WITH THESE GENERAL NOTES, THE PROJECT STANDARD SPECIFICATIONS, AND THE PROJECT SPECIAL INSTRUCTIONS.
15. MAINTENANCE OF TRAFFIC SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM WITH THE SPECIAL INSTRUCTIONS/TECHNICAL SPECIFICATIONS. FULL CLOSURE OF THE ROADWAYS IS PERMITTED FOR THIS PROJECT. THE MOT PLAN DEVELOPED BY THE CONTRACTOR (INCLUDING THE DETOUR ROUTE) AND SIGNAGE SHALL CONFORM TO THE INDOT STANDARD FOR FULL ROAD CLOSURE AND DETOUR ROUTE. CONTRACTOR SHALL COORDINATE ROAD CLOSURES WITH THE HAMILTON COUNTY HIGHWAY DEPARTMENT. PLEASE REFER TO THE SPECIAL INSTRUCTIONS.
16. EXCAVATED SOIL MATERIAL MAY BE SPREAD WITHIN AN AREA 75' FROM THE PROPOSED TOP OF BANK.
17. SOIL MATERIAL EXCAVATED FROM THE WEST SIDE OF DUNBAR ROAD AND FROM THE SOUTH SIDE OF 226TH STREET SHALL BE UTILIZED FOR ROADWAY EMBANKMENT GRADING AND/OR PLACED WITH OTHER EXCAVATED SOIL MATERIAL AT OTHER LOCATIONS WITHIN THE PROJECT LIMITS. NO EXCAVATED SOIL MATERIAL SHALL BE MOUNDED AT THE TOP OF BANK ON THE WEST SIDE OF DUNBAR ROAD OR ON THE SOUTH SIDE OF 226TH STREET.
18. EXCAVATED SOIL MATERIAL MAY BE SPREAD BEYOND THE AREA 75' FROM THE PROPOSED TOP OF BANK WITH PRIOR APPROVAL FROM THE INSPECTOR. THE HCSO MUST PROVIDE NOTICE TO THE PROPERTY OWNER PRIOR TO PLACEMENT OF EXCAVATED SOIL MATERIAL BEYOND THIS AREA.

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PROJECT NO:	238-19		
WATERSHED NO:	238		
FIELD BOOK:			
FIELD BY:	BKR/SDF		
DRAWN BY:	GRD/RQA		
CHECKED BY:	GRD		
DATE:	4/29/19		

REVISIONS:	DATE:	BY:
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GARY R. DUNCAN, JR. REGISTERED No. PE19900146 STATE OF INDIANA PROFESSIONAL ENGINEER

CERTIFIED BY:
GARY R. DUNCAN, JR., P.E.
DATE: 14-JAN-22

PROJECT NAME: FLORA MENDENHALL DRAIN RECONSTRUCTION
GENERAL NOTES AND DETAILS

PLOT DATE: Jan 14, 2022 - 11:21 am

SHEET NO.
13 OF 13

Jan 14, 2022 - 11:21 am S:\E-Surv\Projects\Regulated Drains\Flora Mendenhall\Civil 3D\Production Drawings\ \ 238-19 Flora Mendenhall Construction Drawings 090519.dwg