

LINE #	DISTANCE	BEARING
L1	102.37'	S1° 16' 19.62"W
L2	90.82'	S0° 03' 36.74"W
L3	41.03'	S2° 20' 37.73"E
L4	89.19'	S4° 36' 29.90"W
L5	71.24'	S9° 00' 14.53"W
L6	60.37'	S38° 16' 09.44"W
L7	93.23'	S34° 17' 33.90"W
L8	144.17'	S28° 12' 43.27"W
L9	85.74'	S34° 24' 56.94"W
L10	30.98'	S19° 36' 06.10"W
L11	26.95'	S8° 32' 34.97"W
L12	80.18'	S10° 21' 01.44"E
L13	33.28'	S16° 44' 38.71"E
L14	50.53'	S10° 46' 03.80"E
L15	52.86'	S19° 09' 38.13"E
L16	38.92'	S17° 00' 34.46"E
L17	24.04'	S8° 54' 31.99"E
L18	44.39'	S18° 58' 13.10"E
L19	105.24'	S5° 14' 36.97"W
L20	29.49'	S33° 45' 23.94"W
L21	43.92'	S15° 12' 25.50"W
L22	45.22'	S24° 37' 30.33"W
L23	93.05'	S15° 44' 42.85"W
L24	39.78'	S6° 48' 54.53"W
L25	123.88'	S4° 27' 12.67"E
L26	66.96'	S0° 38' 43.68"W
L27	32.53'	S8° 43' 17.16"W
L28	31.20'	S41° 29' 20.92"W
L29	43.17'	S11° 08' 39.85"W
L30	27.78'	S13° 05' 54.42"E
L31	27.43'	S4° 46' 46.84"W
L32	38.03'	S17° 08' 04.21"W
L33	49.12'	S9° 54' 47.08"W
L34	43.65'	S21° 57' 04.32"E
L35	58.56'	S14° 26' 46.84"E
L36	56.77'	S9° 17' 52.97"E
L37	37.26'	S28° 13' 26.69"E
L38	33.03'	S13° 10' 44.94"E
L39	151.35'	S29° 14' 36.31"E
L40	82.80'	S26° 39' 32.21"E
L41	110.41'	S22° 00' 52.10"E
L42	91.15'	S3° 37' 56.17"E
L43	41.51'	S43° 44' 44.60"E
L44	64.02'	S37° 55' 17.28"E
L45	27.80'	S2° 46' 17.96"E
L46	44.16'	S40° 29' 23.67"E
L47	48.68'	S78° 35' 32.67"E
L48	93.89'	S32° 25' 15.28"E

LINE #	DISTANCE	BEARING
L49	61.18'	S76° 38' 22.78"E
L50	92.59'	S30° 33' 52.53"E
L51	54.66'	S30° 54' 24.77"W
L52	74.66'	S26° 26' 23.19"W
L53	87.95'	S28° 54' 35.79"W

BENCH MARK DATA

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 NAIL AND DISK NO. 0340
 ELEVATION= 24.76'

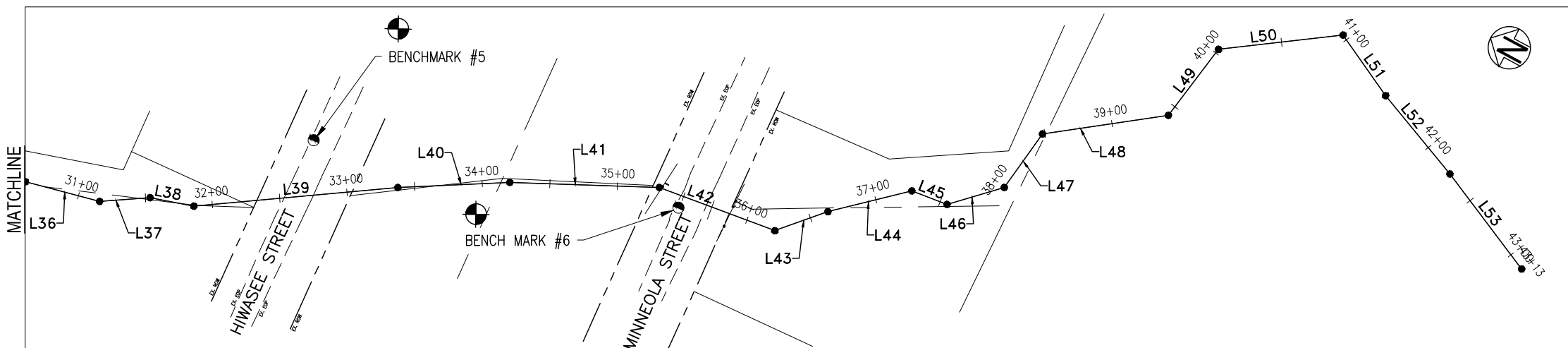
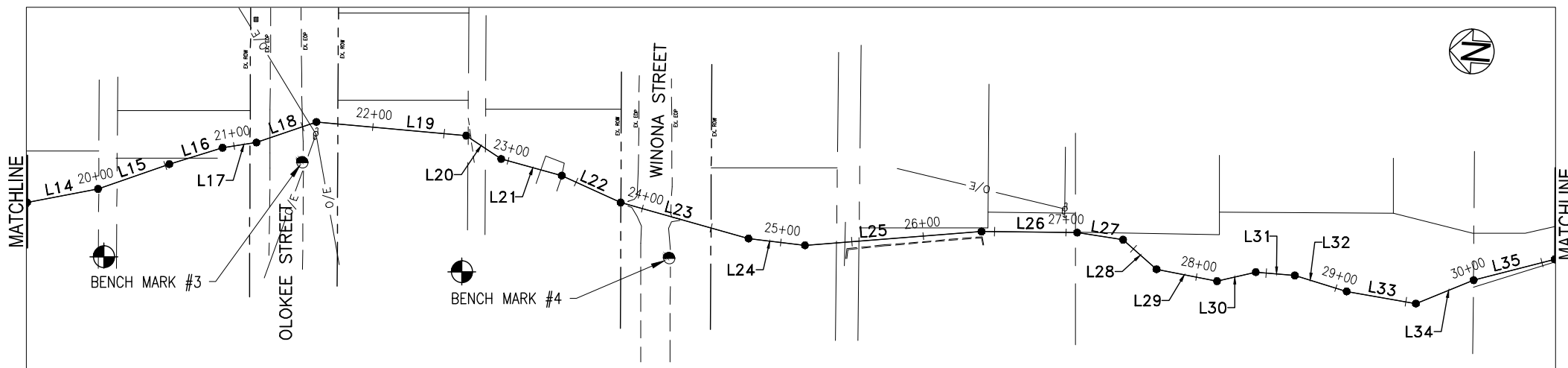
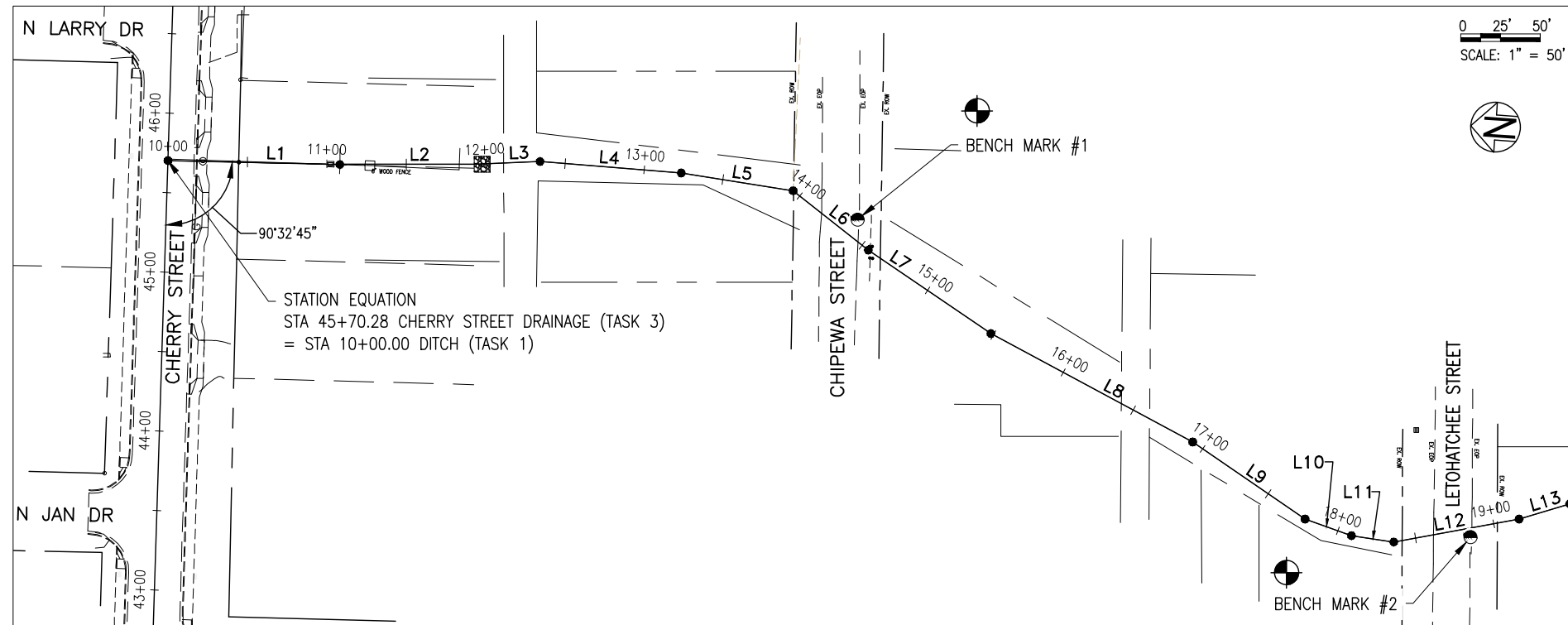
BENCH MARK #2
 STA 18+83.90, OFFSET 5.72' RT
 SET MAGNETIC SURVEY
 NAIL AND DISK NO. 0304
 ELEVATION= 23.48'

BENCH MARK #3
 STA 21+41.68, OFFSET 23.59' RT
 SET MAGNETIC SURVEY
 NAIL AND DISK NO. 0304
 ELEVATION= 21.39'

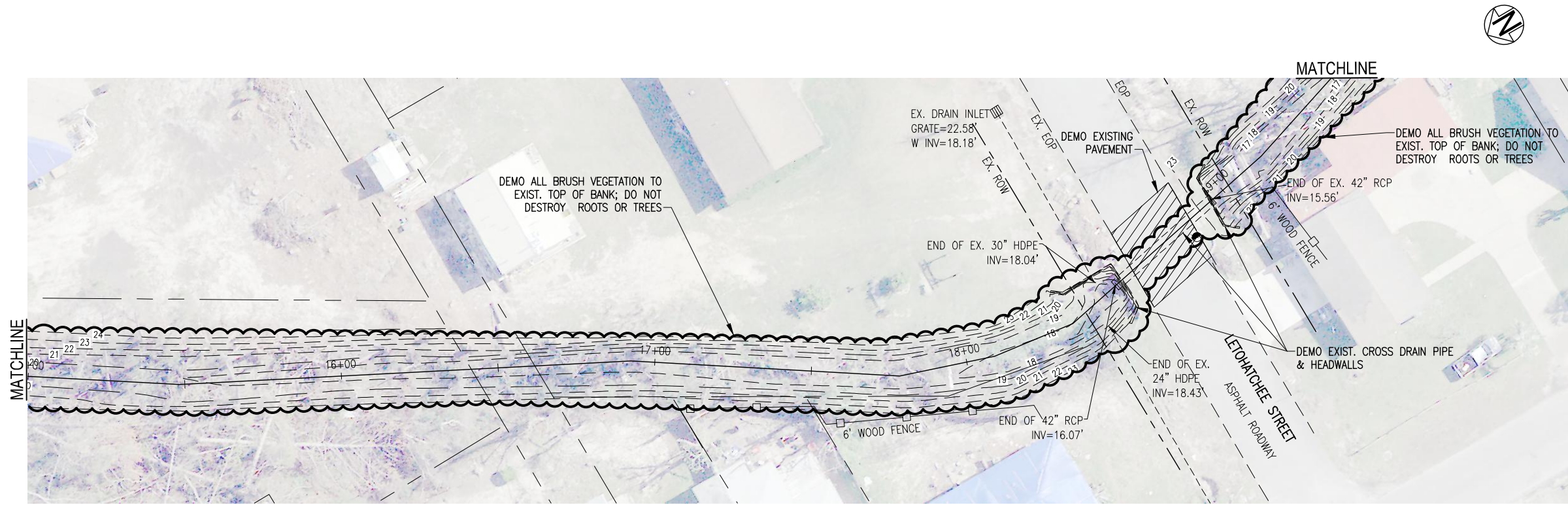
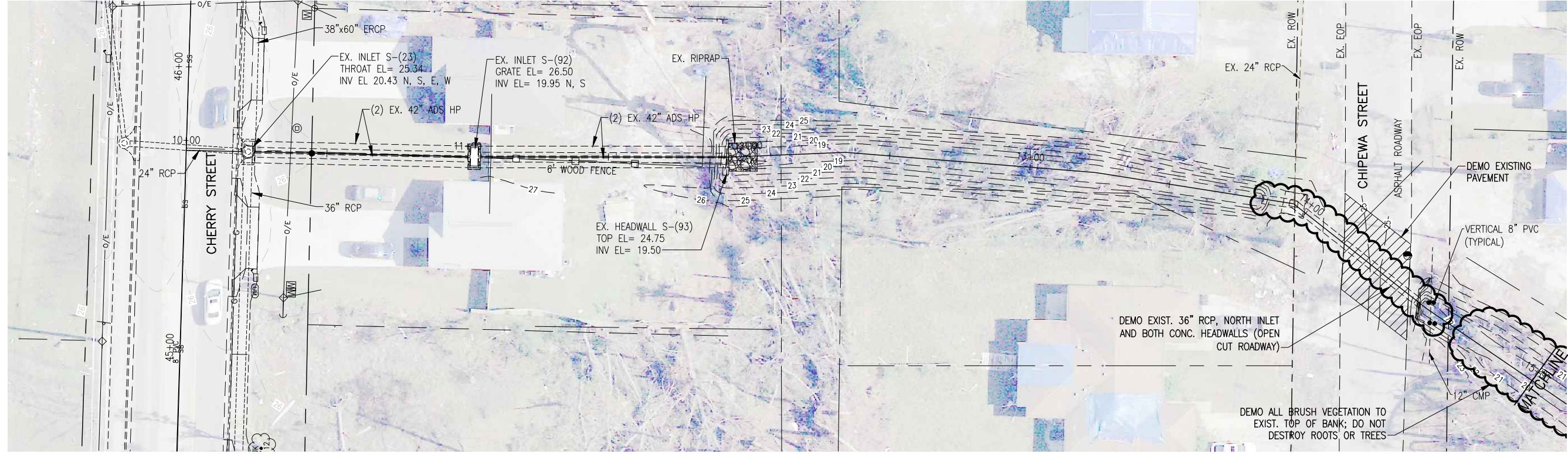
BENCH MARK #4
 STA 24+27.32, OFFSET 38.33' RT
 SET MAGNETIC SURVEY
 NAIL AND DISK NO. 0304
 ELEVATION= 21.39'

BENCH MARK #5
 STA 32+78.79, OFFSET 40.27' LT
 SET MAGNETIC SURVEY
 NAIL AND DISK NO. 0304
 ELEVATION= 15.96'

BENCH MARK #6
 STA 35+49.24, OFFSET 9.14' RT
 SET MAGNETIC SURVEY
 NAIL AND DISK NO. 0304
 ELEVATION= 13.21'



<p>BASKERVILLE-DONOVAN, INC. ENGINEERING THE SOUTH SINCE 1927 448 W. MAIN ST., PENSACOLA, FL 32502 (850)438-9661 ENGINEERING BUSINESS: EB-0000340 Pensacola - Panama City Beach - Tallahassee - Mobile</p>		<p>LETTY C. PETERMAN, P.E. FL. Reg. Engineer #77540</p>	
		<p>CHERRY STREET DRAINAGE IMPROVEMENTS (JAN DR TO ROGERS POND)</p>	
PROJECT NO:	27651.01	NO.	
DESIGNED BY:	GM	REVISION/ACTION TAKEN	
DRAWN BY:	RCG	APPR.	
CHK'D BY:	JCP	DATE	
PROJ. MGR:	JCP	NOT RELEASED FOR CONSTRUCTION BY	DATE
DATE:	MAR 2022		
CONTROL PLAN			
C-100			



BASKERVILLE-DONOVAN, INC.
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 Pensacola - Panama City Beach - Tallahassee - Mobile

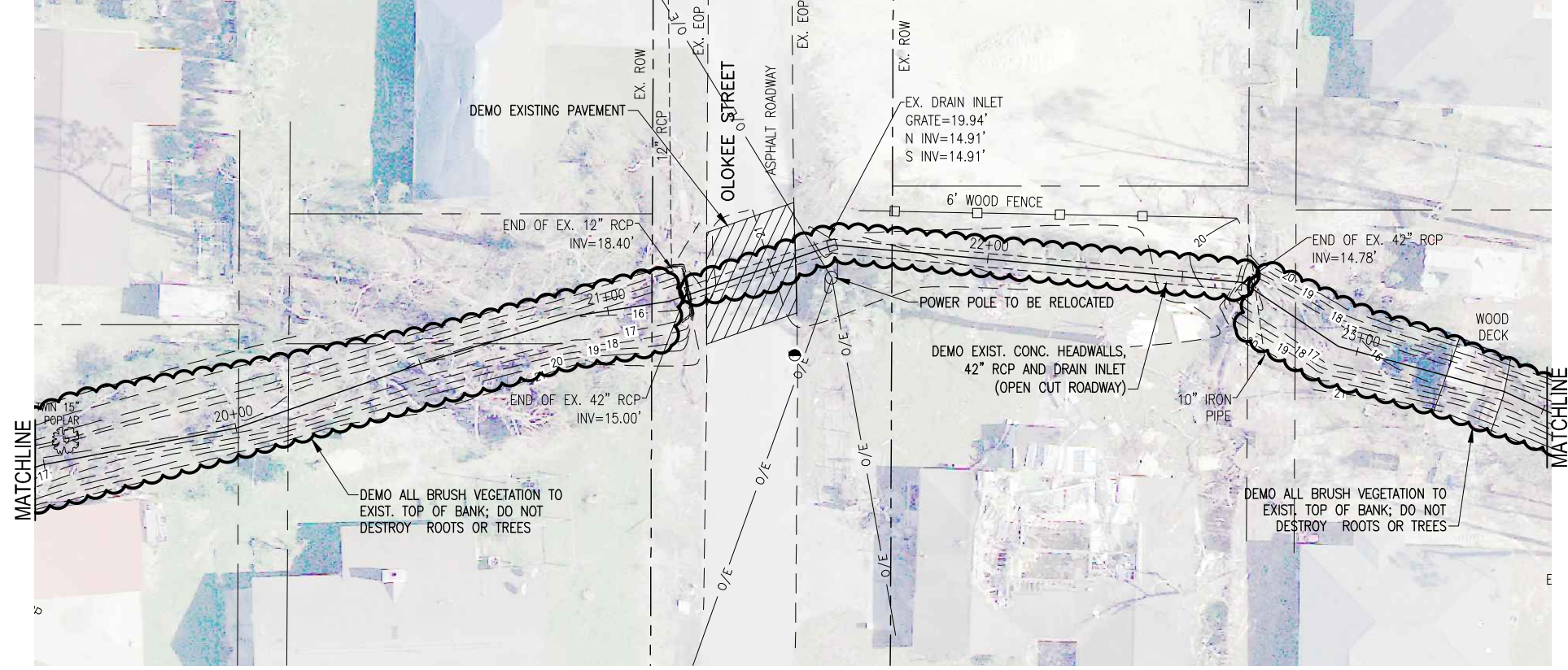
LETTY C. PETERMANN, DE
 FL. Reg. Engineer #77540

**CHERRY STREET
 DRAINAGE IMPROVEMENTS
 (JAN DR TO ROGERS
 POND)**

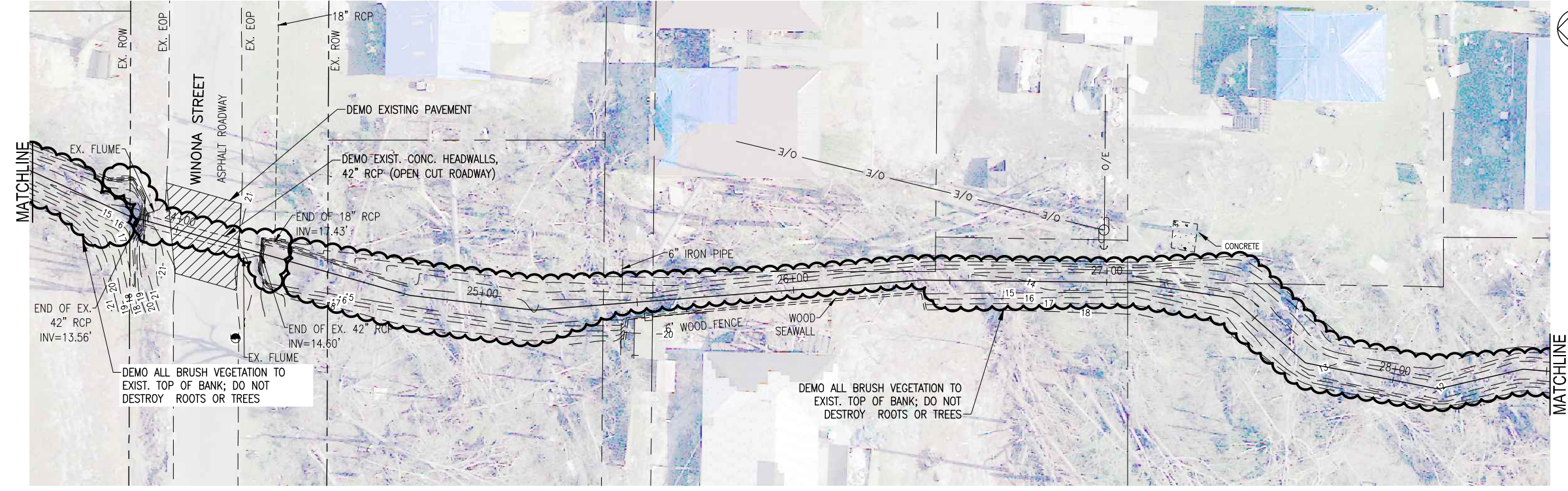
NO.	DATE	APPR.	REVISION/ACTION TAKEN

PROJECT NO: 27651.01
 DESIGNED BY: GM
 DRAWN BY: RGC
 CHK'D BY: JCP
 PROJ. MGR: JCP
 DATE: MAR 2022

**EXISTING CONDITIONS
 & DEMOLITION PLAN**



0 10' 20'
SCALE: 1" = 20'



**EXISTING CONDITIONS
& DEMOLITION PLAN**

**CHERRY STREET
DRAINAGE IMPROVEMENTS
(JAN DR TO ROGERS
POND)**

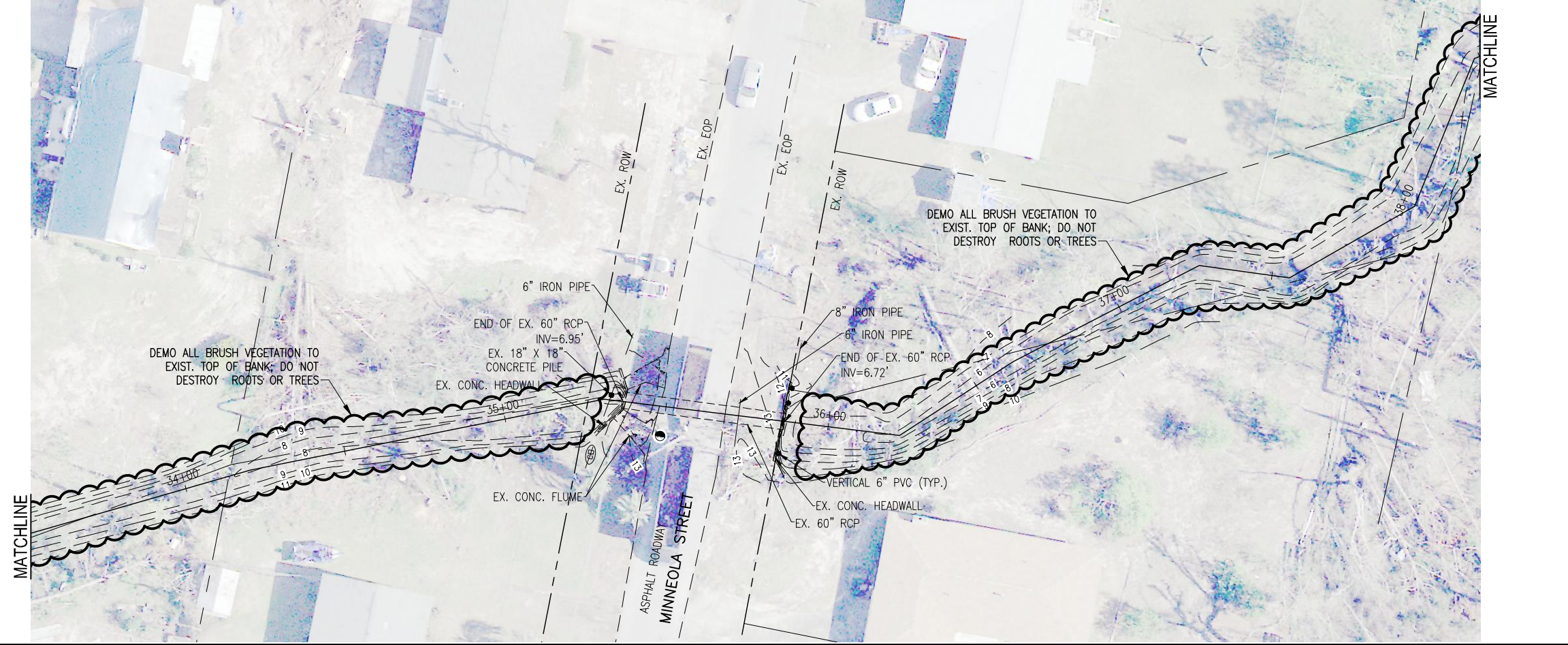
BASKERVILLE-DONOVAN, INC.
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ENGINEERING BUSINESS: EB-0000340
Pensacola - Panama City Beach - Tallahassee - Mobile

LETTY C. PETERMAN, DE
FL. Reg. Engineer #77540

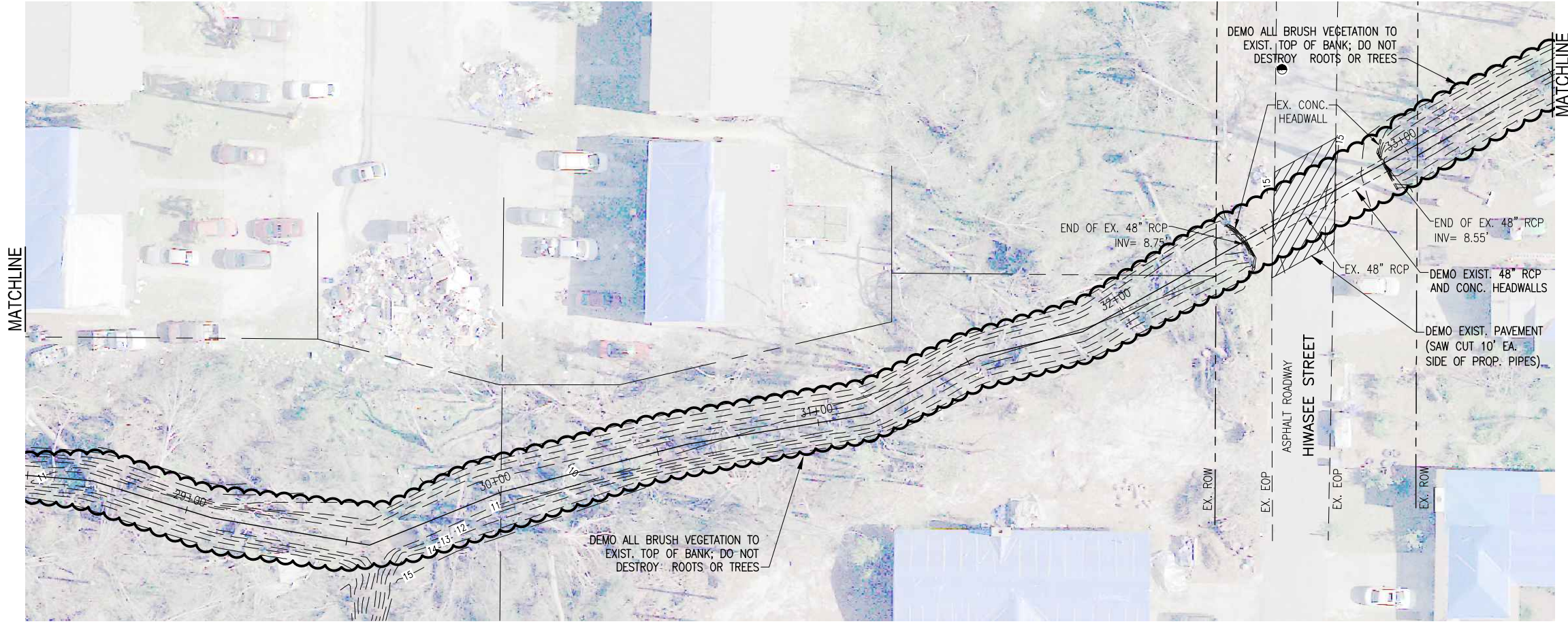
PROJECT NO:	NO.	DATE	APPR.	REVISION/ACTION TAKEN
27651.01				
DESIGNED BY: GM				
DRAWN BY: RGC				
CHK'D BY: JCP				
PROJ. MGR: JCP				
DATE: MAR 2022				

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0 10' 20'
SCALE: 1" = 20'



0 10' 20'
SCALE: 1" = 20'

**EXISTING CONDITIONS
& DEMOLITION PLAN**

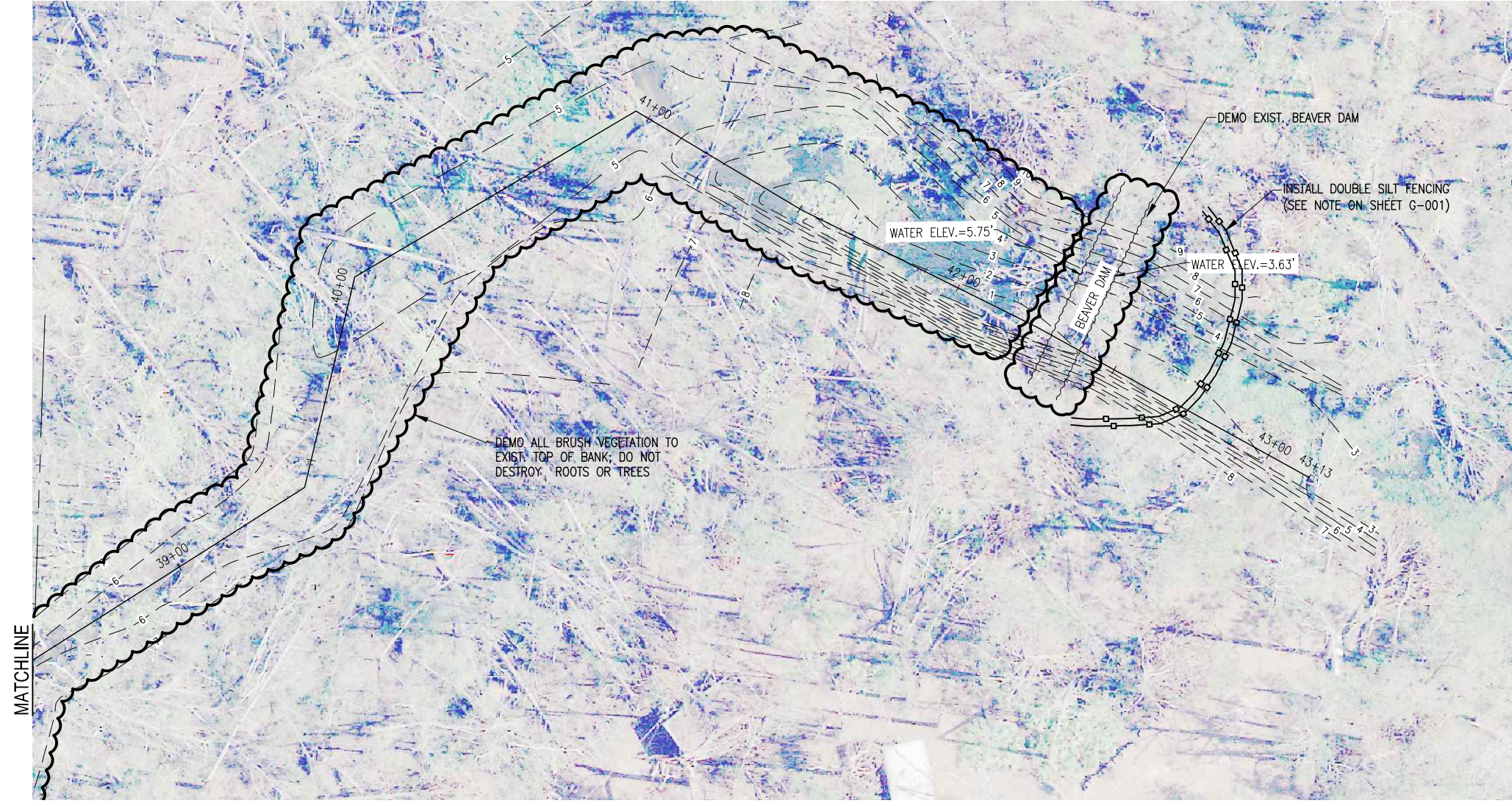
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DESIGNED BY: GM
DRAWN BY: RGC
CHK'D BY: JCP
PROJ. MGR: JCP
DATE: MAR 2022

NO.	DATE	APPR.	REVISION/ACTION TAKEN

**CHERRY STREET
DRAINAGE IMPROVEMENTS
(JAN DR TO ROGERS
POND)**

LETTY C. PETERMANN, DE
FL. Reg. Engineer #77540

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0 10' 20'
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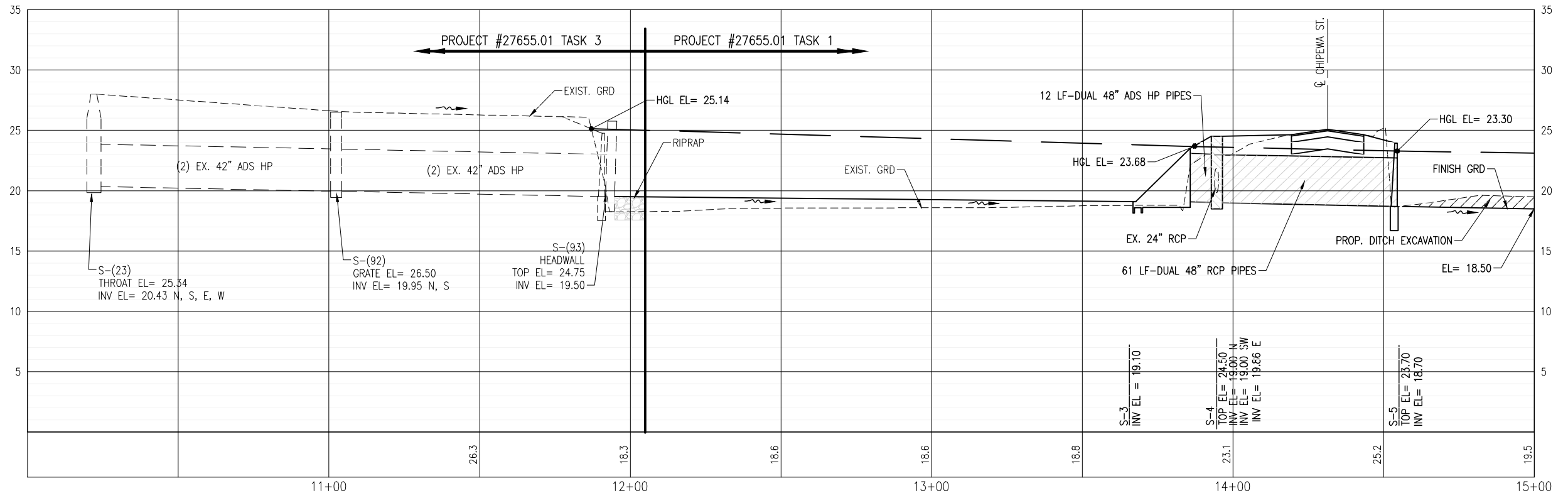
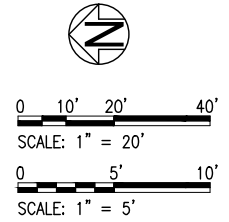
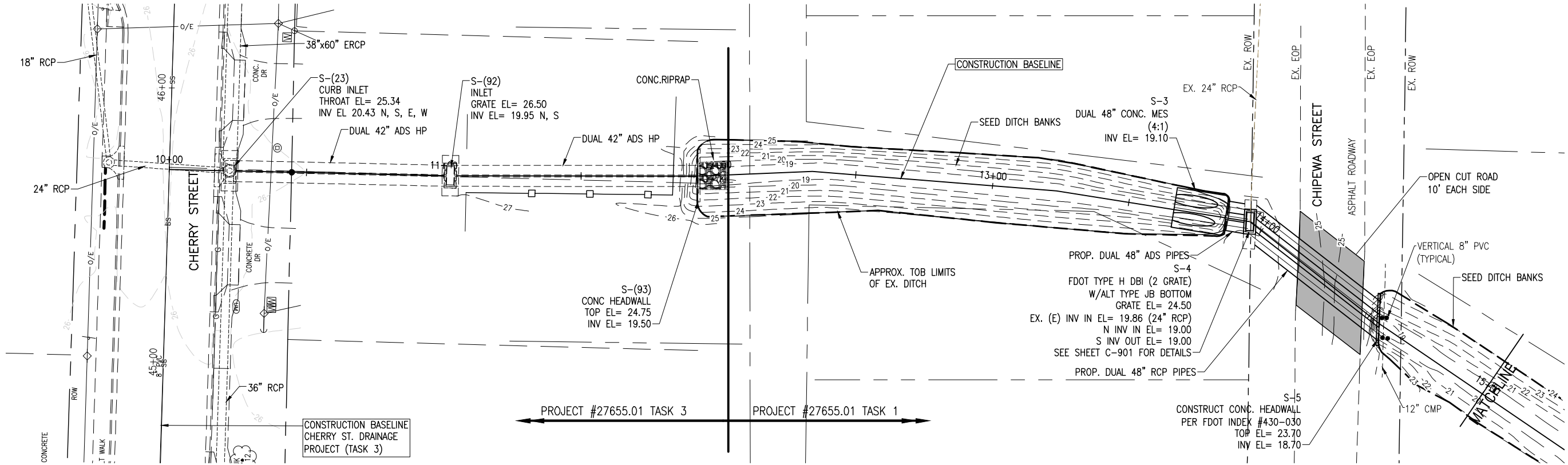
**EXISTING CONDITIONS
& DEMOLITION PLAN**

**CHERRY STREET
DRAINAGE IMPROVEMENTS
(JAN DR TO ROGERS
POND)**

PROJECT NO:	NO.	DATE	APPR.	REVISION/ACTION TAKEN
27651.01				
DESIGNED BY: GM				
DRAWN BY: RGC				
CHK'D BY: JCP				
PROJ. MGR: JCP				
DATE: MAR 2022				

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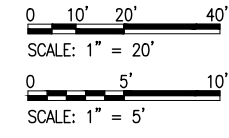
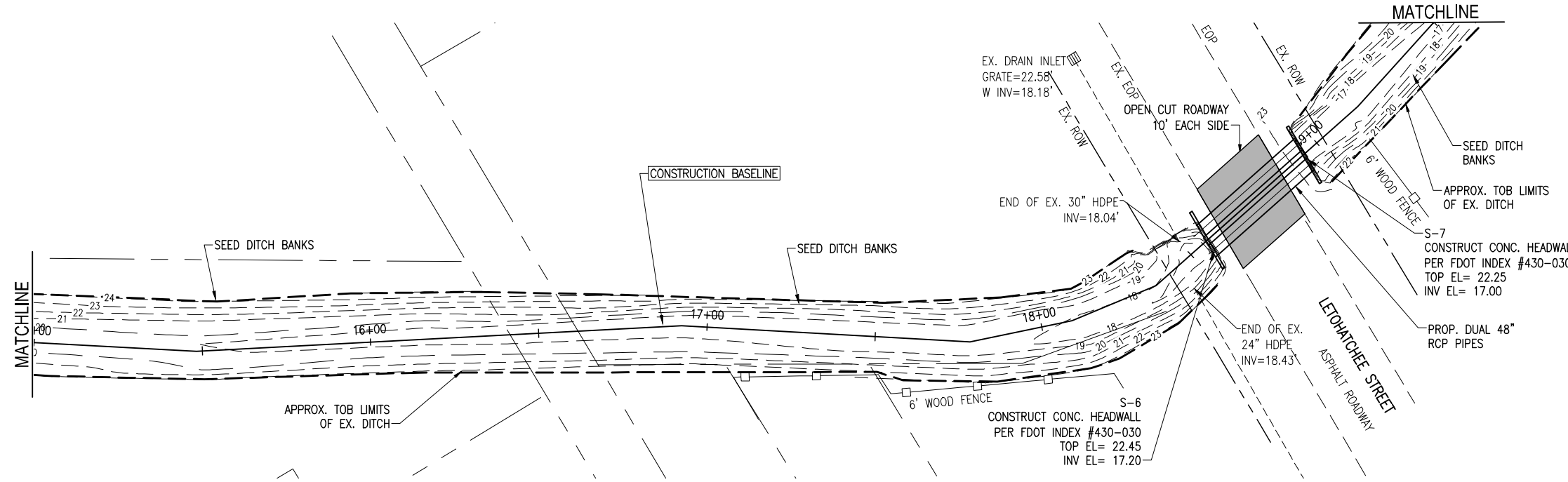
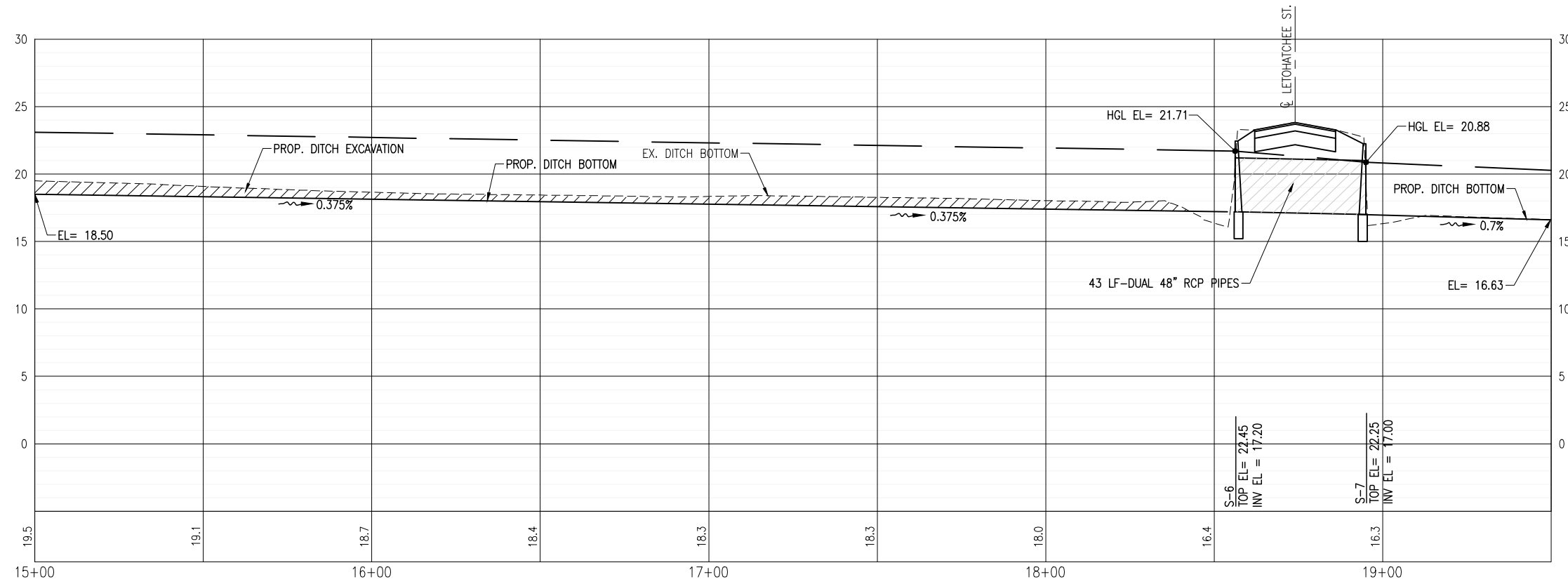
CHERRY STREET DRAINAGE IMPROVEMENTS (JAN DR TO ROGERS POND)

PROJECT NO.	DESIGNED BY	DRAWN BY	CHK'D BY	PROJ. MGR.	DATE	NO.	DATE	APPR.	REVISION/ACTION TAKEN
27651.01	GM	RCG	JCP	JCP	MAR 2022				

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NOT RELEASED FOR CONSTRUCTION BY DATE

C-105



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ENGINEERING BUSINESS: EB-0000340

Pensacola - Panama City Beach - Tallahassee - Mobile

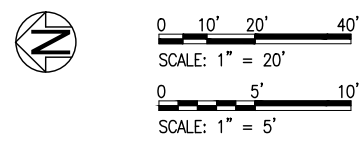
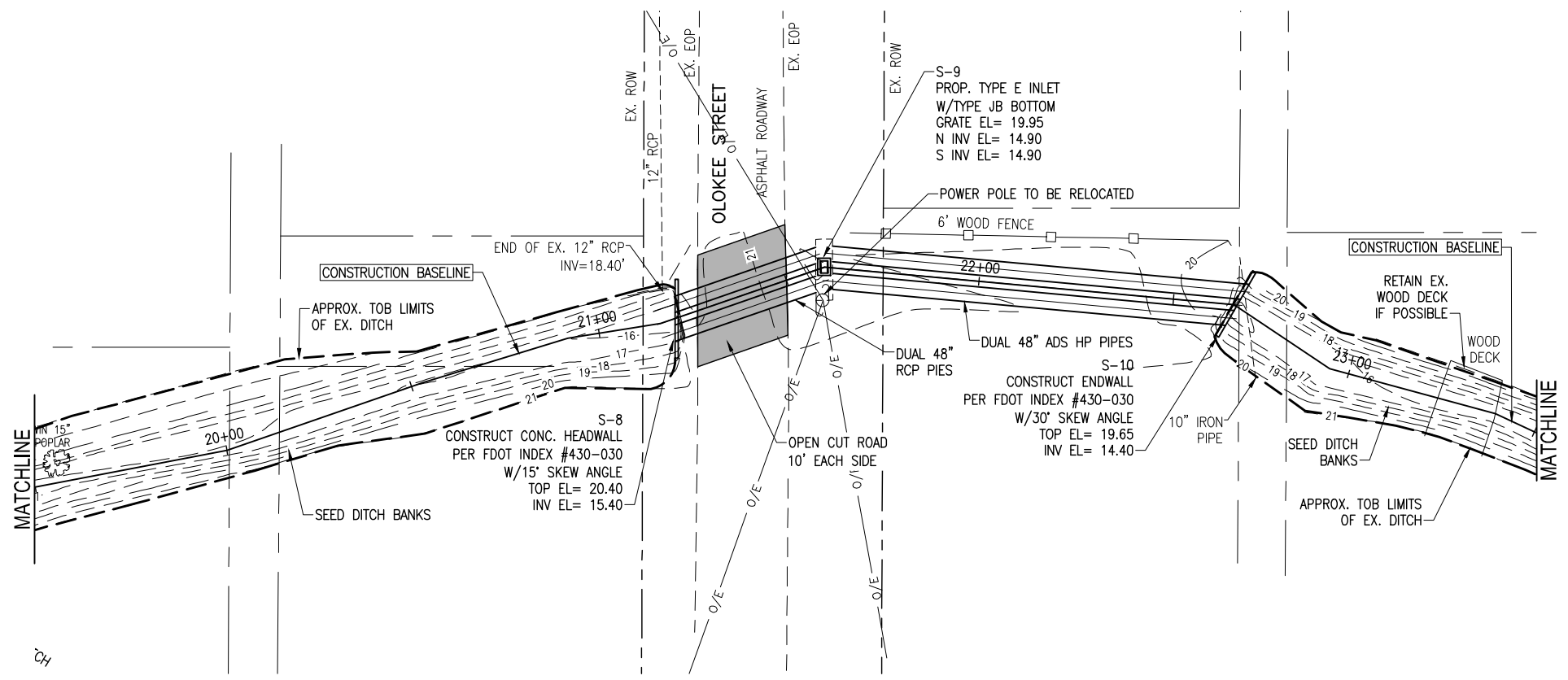
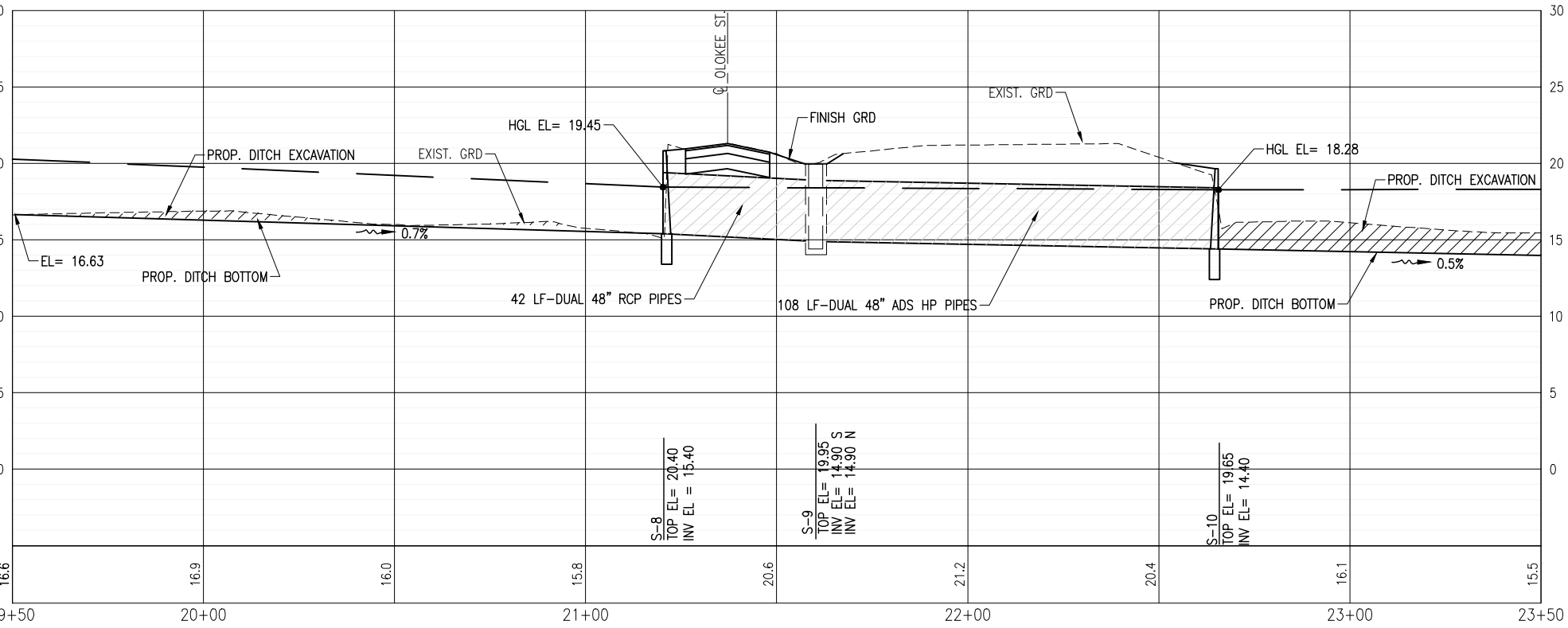
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CHERRY STREET DRAINAGE IMPROVEMENTS (JAN DR TO ROGERS POND)

PROJECT NO.	DESIGNED BY	DRAWN BY	CHK'D BY	PROJ. MGR.	DATE	NO.	DATE	APPR.	REVISION/ACTION TAKEN
27651.01	GM	RCG	JCP	JCP	MAR 2022				
						NOT RELEASED FOR CONSTRUCTION BY DATE			

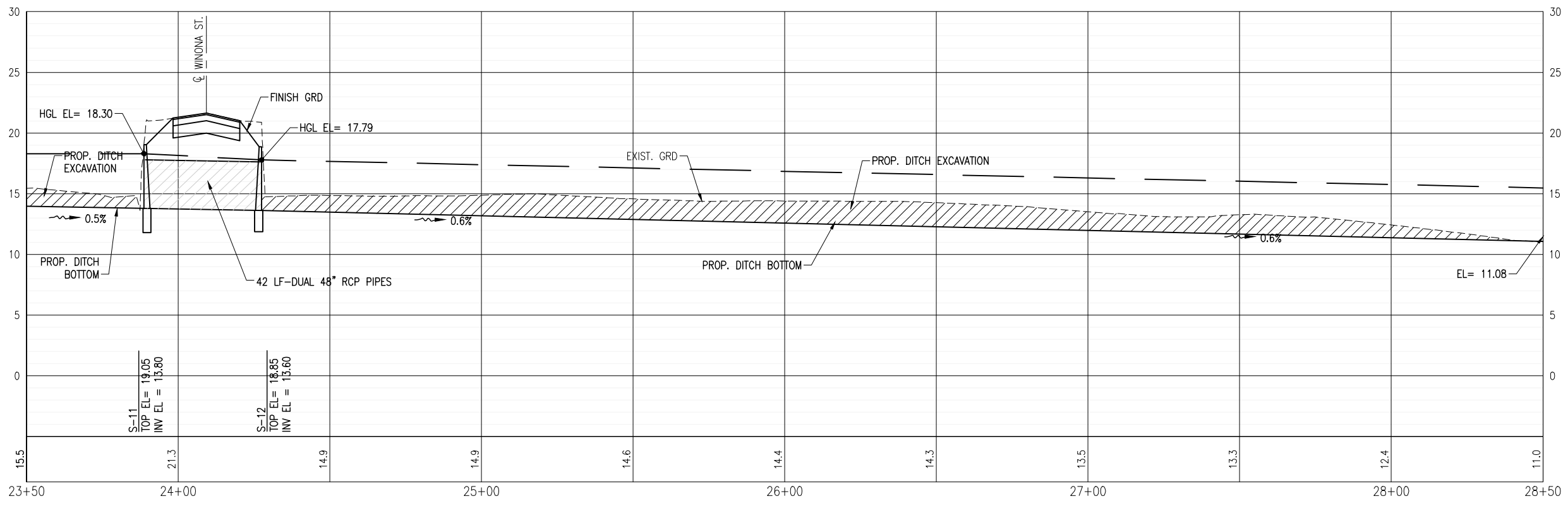
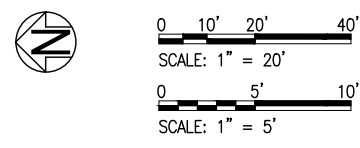
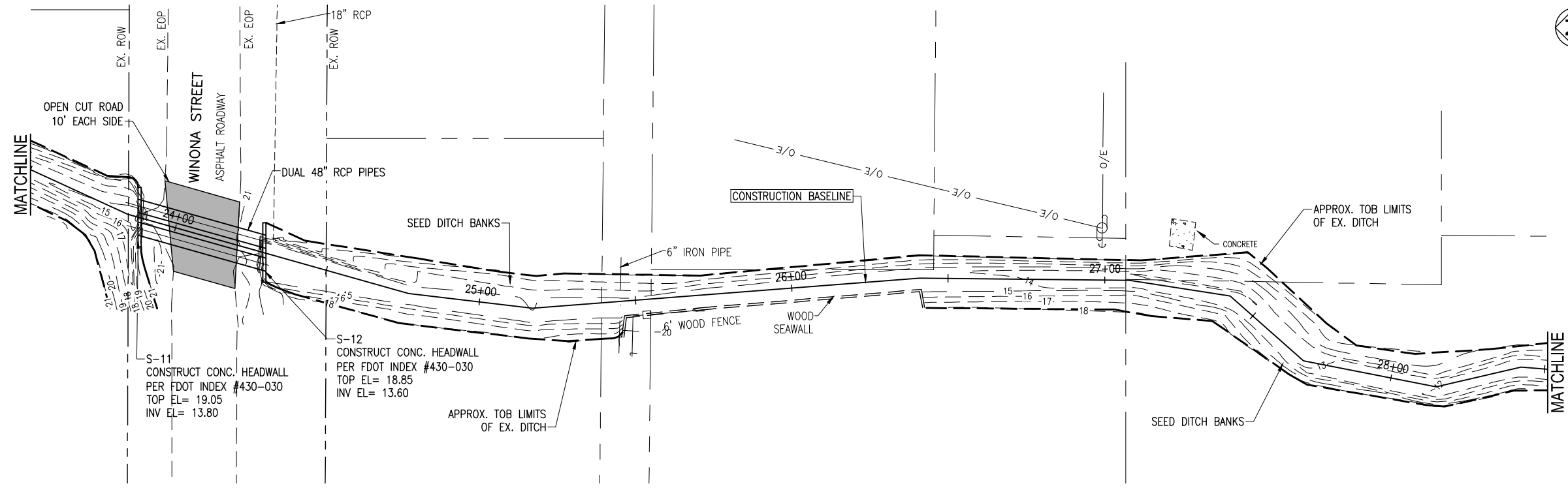
PLAN AND PROFILE

C-106



PLAN AND PROFILE	PROJECT NO: 27651.01	NO. DATE APPR.	REVISION/ACTION TAKEN
	DESIGNED BY: GM DRAWN BY: RGC CHK'D BY: JCP PROJ. MGR: JCP DATE: MAR 2022	NOT RELEASED FOR CONSTRUCTION BY DATE	
CHERRY STREET DRAINAGE IMPROVEMENTS (JAN DR TO ROGERS POND)			
BASKERVILLE-DONOVAN, INC. ENGINEERING THE SOUTH SINCE 1927 448 W. MAIN ST. PENSACOLA FL 32502 (850)438-9661 ENGINEERING BUSINESS: EB-0000340 Pensacola - Panama City Beach - Tallahassee - Mobile This drawing is the property of BASKERVILLE-DONOVAN, INC. and is not to be reproduced in whole or in part. It is not to be used on any other project and is to be returned upon request.			
C-107			

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 448 W. MAIN ST., PENSACOLA, FL 32502 (850)438-9661
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LETTY C. PETERMAN, DE
 FL Reg. Engineer #77540

**CHERRY STREET
 DRAINAGE IMPROVEMENTS
 (JAN DR TO ROGERS
 POND)**

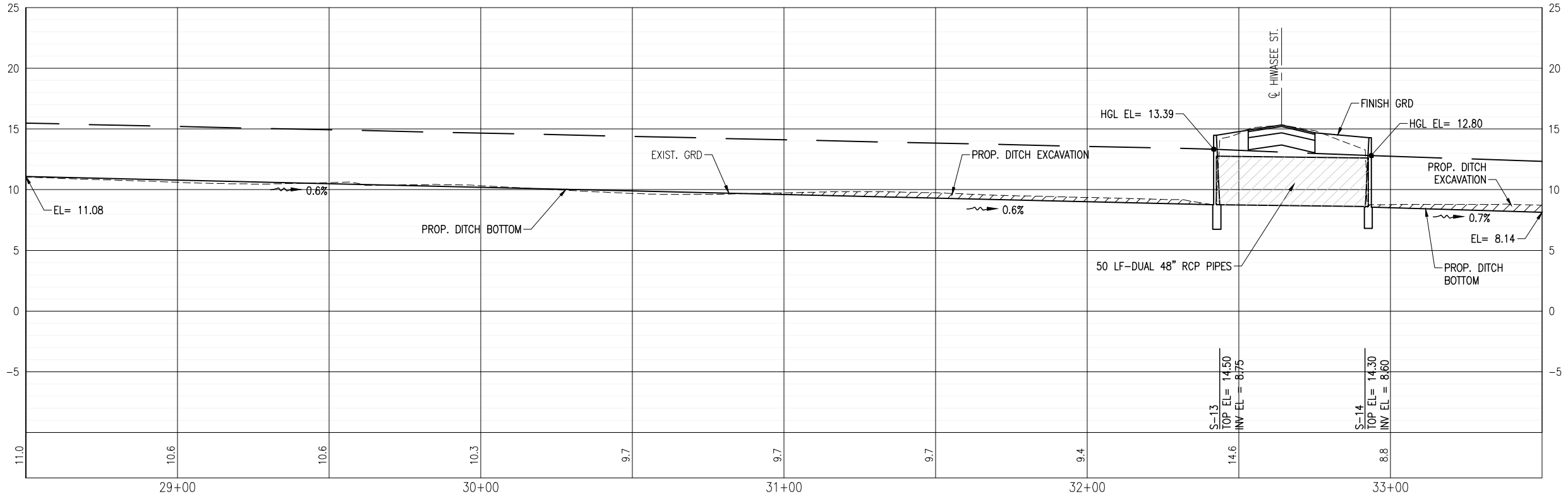
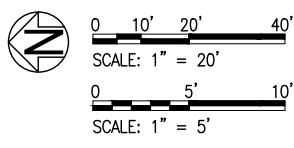
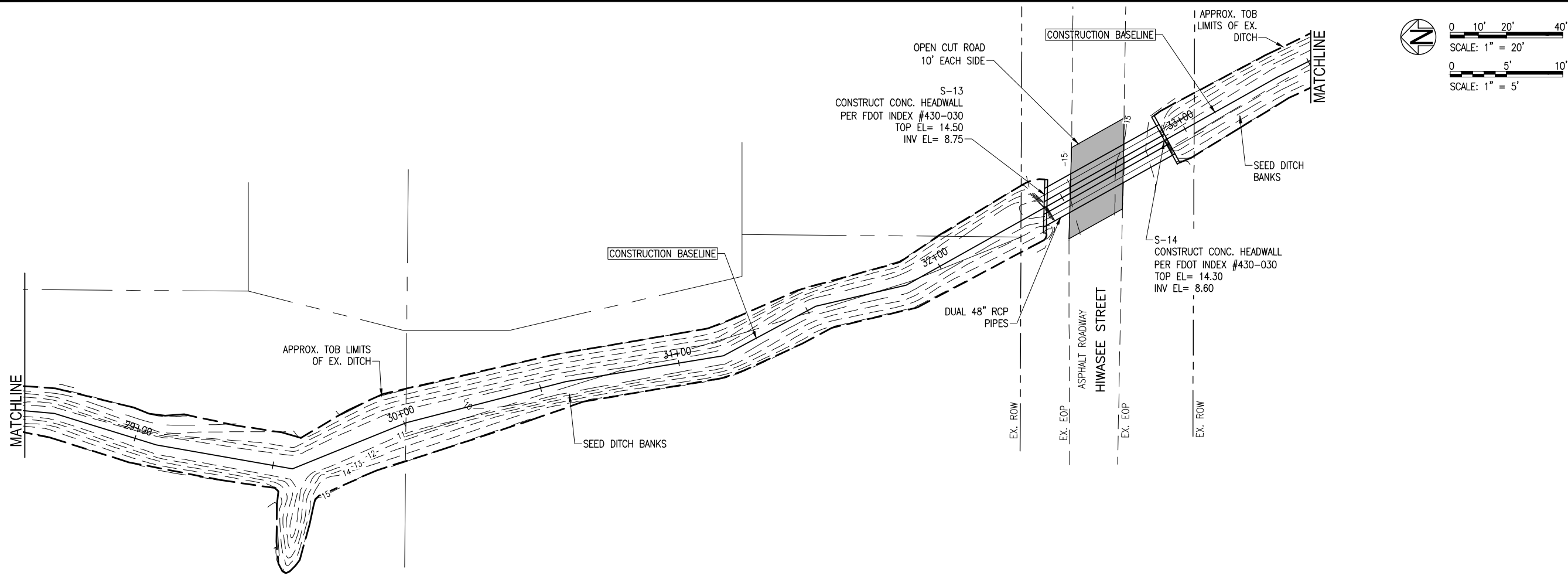
PROJECT NO:	NO.	DATE	APPR.	REVISION/ACTION TAKEN
27651.01				
DESIGNED BY: GM				
DRAWN BY: RGC				
CHK'D BY: JCP				
PROJ. MGR: JCP				
DATE: MAR 2022				

PLAN AND PROFILE

C-108

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 448 W. MAIN ST., PENSACOLA, FL 32502 (850)438-9661
 ENGINEERING BUSINESS: EB-0000340
 Pensacola - Panama City Beach - Tallahassee - Mobile

LETTY C. PETERMANN, P.E.
 FL. Reg. Engineer #77540

**CHERRY STREET
 DRAINAGE IMPROVEMENTS
 (JAN DR TO ROGERS
 POND)**

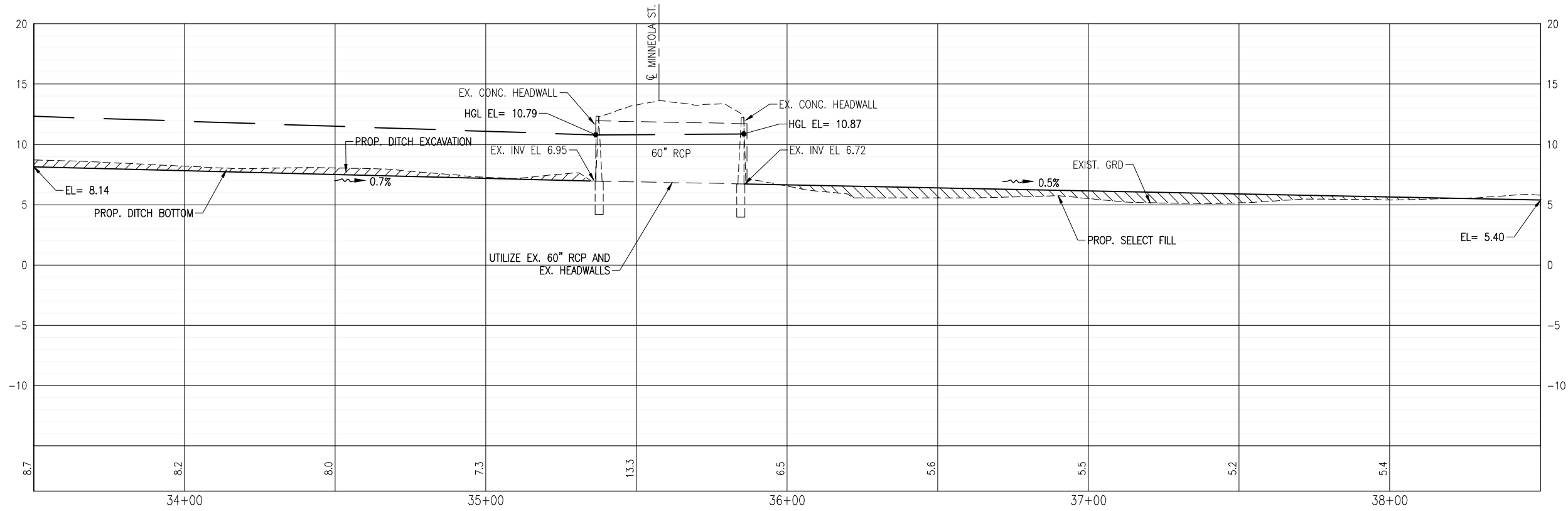
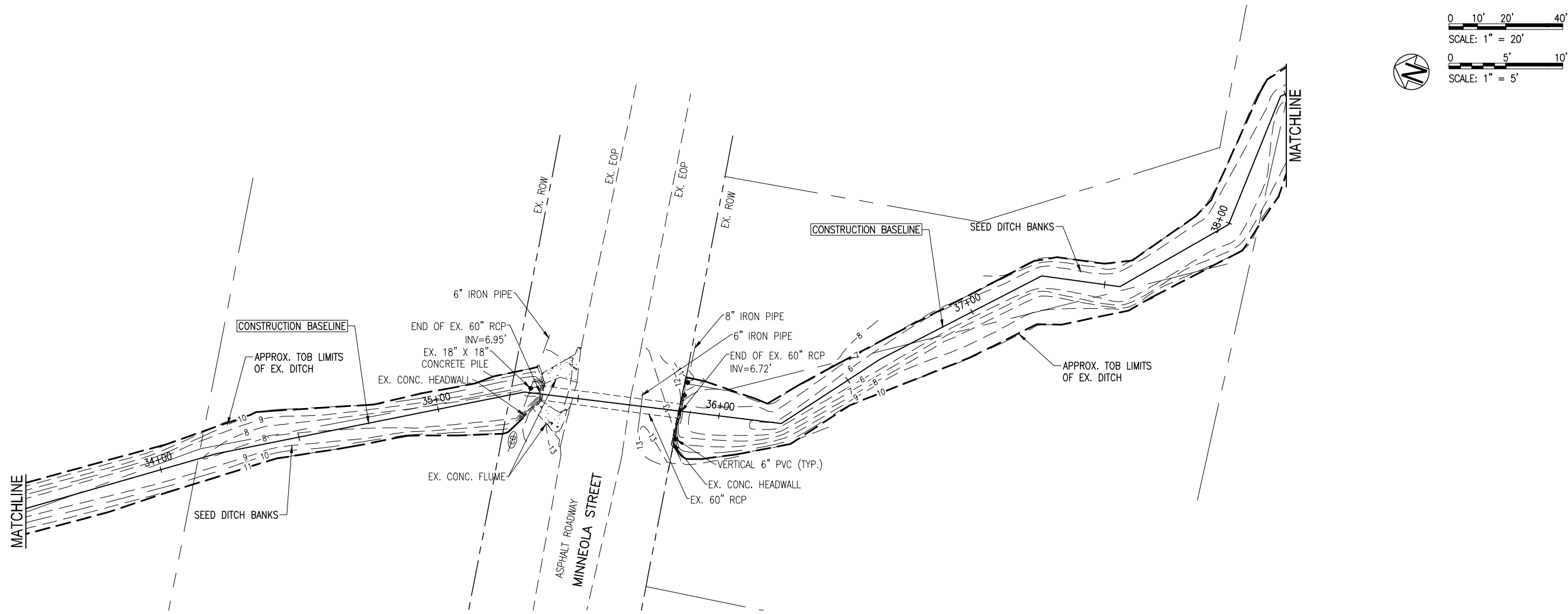
NO.	DATE	APPR.	REVISION/ACTION TAKEN

PROJECT NO: 27651.01
 DESIGNED BY: GM
 DRAWN BY: RGC
 CHK'D BY: JCP
 PROJ. MGR: JCP
 DATE: MAR 2022

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 448 W. MAIN ST., PENSACOLA, FL 32502 (850)438-9661
 ENGINEERING BUSINESS: EB-0000340
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LETTY C. PETERMAN, P.E.
 P.E. Reg. Engineer #77540

**CHERRY STREET
 DRAINAGE IMPROVEMENTS
 (JAN DR TO ROGERS
 POND)**

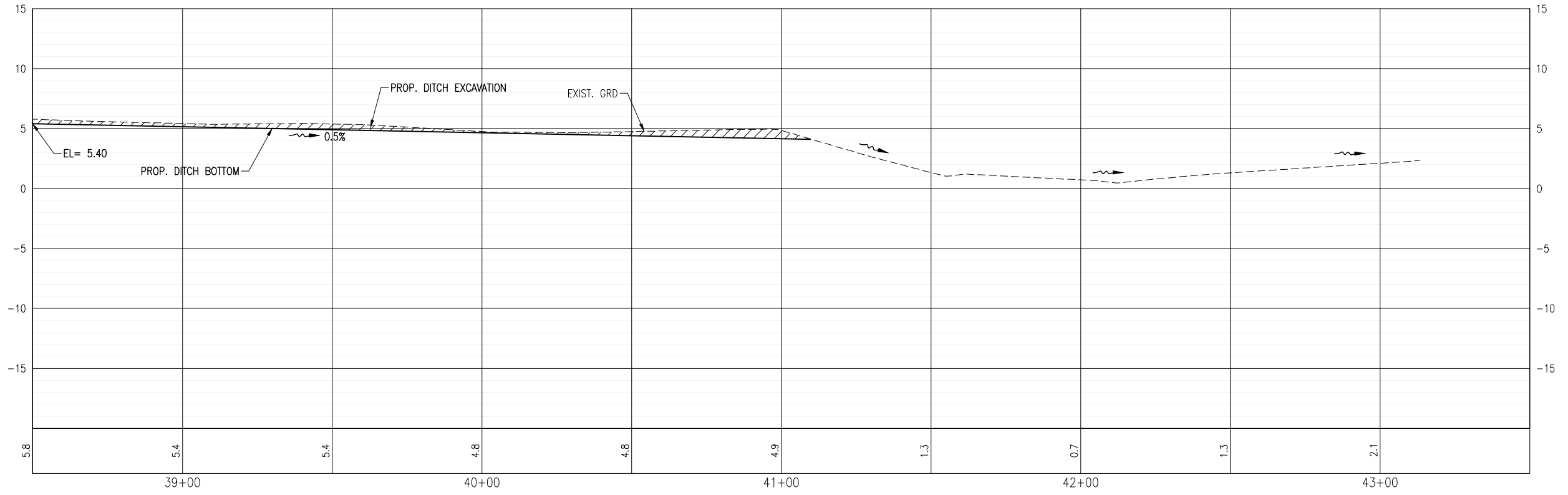
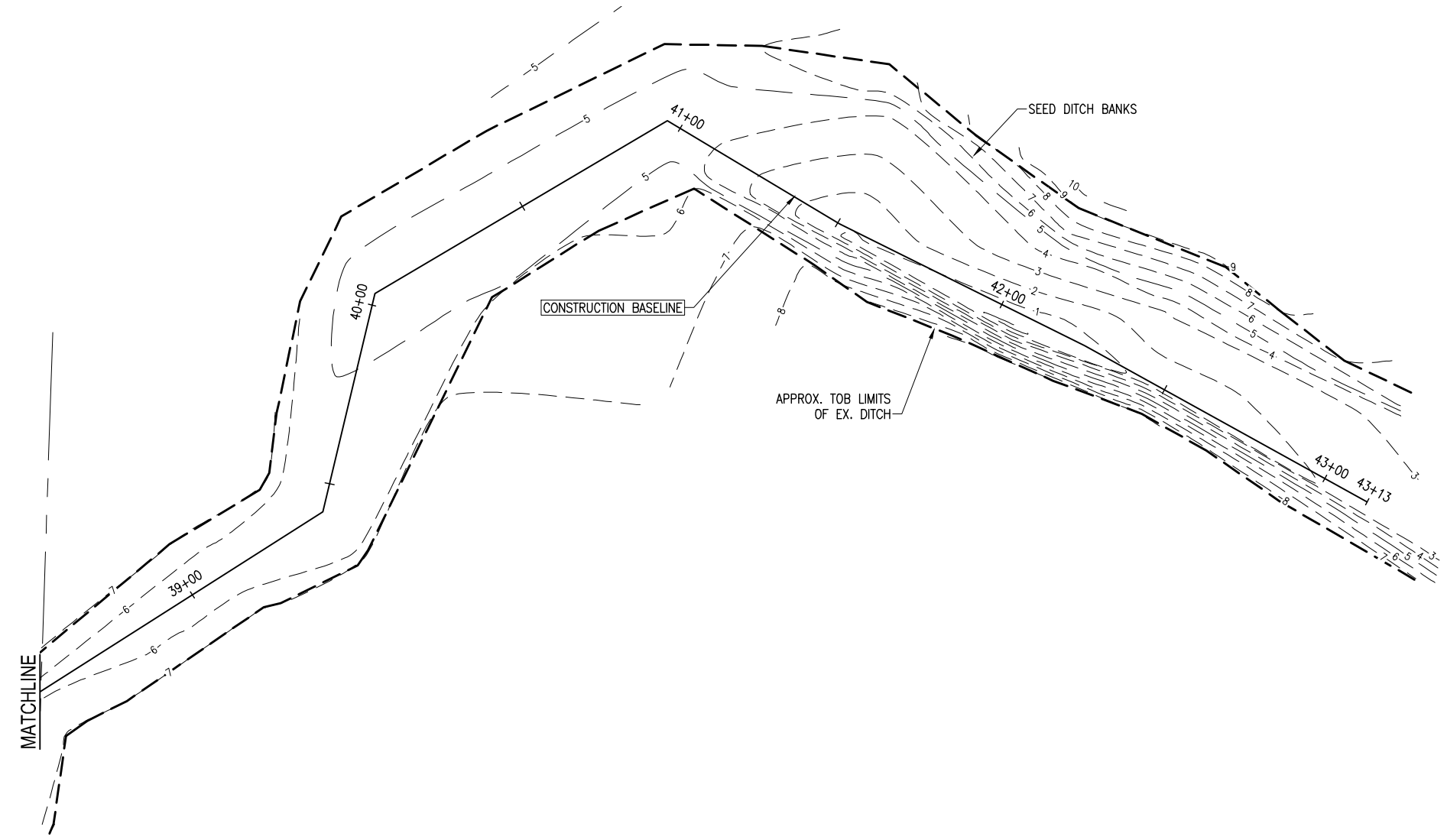
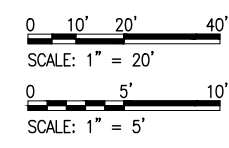
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PROJECT NO: 27651.01
 DESIGNED BY: GM
 DRAWN BY: RGC
 CHK'D BY: JCP
 PROJ. MGR: JCP
 DATE: MAR 2022

PLAN AND PROFILE

C-110

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PLAN AND PROFILE	PROJECT NO:	27651.01	NO.	DATE	APPR.	REVISION/ACTION TAKEN
	DESIGNED BY:	GM				
C-111	DRAWN BY:	RCG				
	CHK'D BY:	JCP				
	PROJ. MGR:	JCP				
	DATE:	MAR 2022	NOT RELEASED FOR CONSTRUCTION BY		DATE	

**CHERRY STREET
DRAINAGE IMPROVEMENTS
(JAN DR TO ROGERS
POND)**

BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927

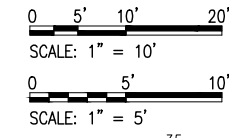
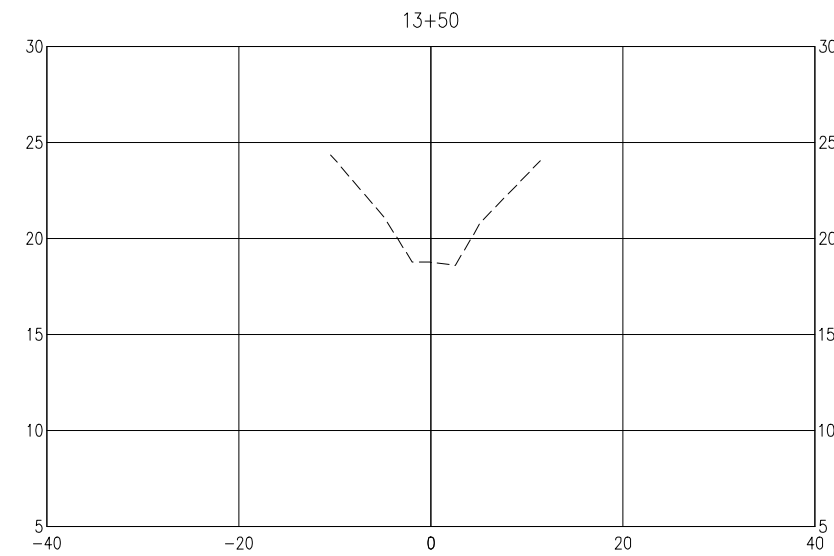
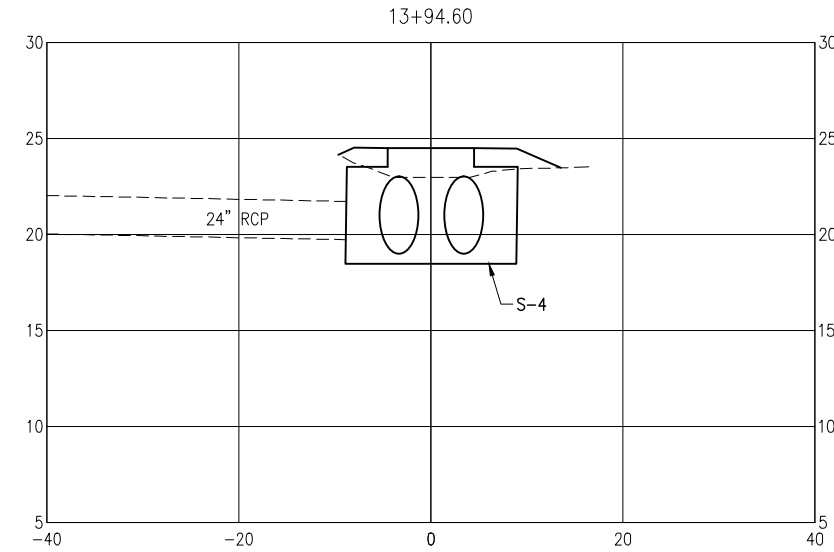
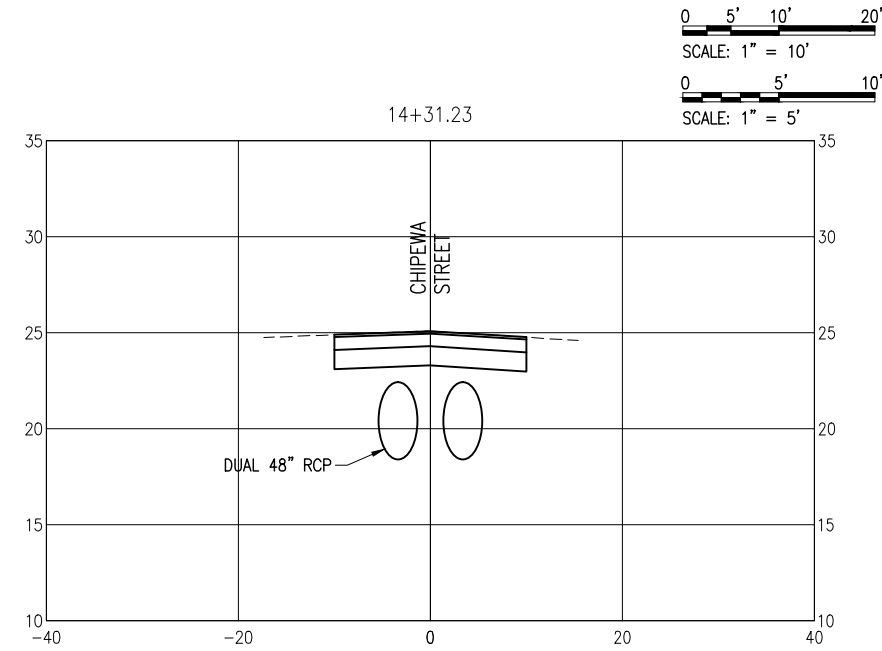
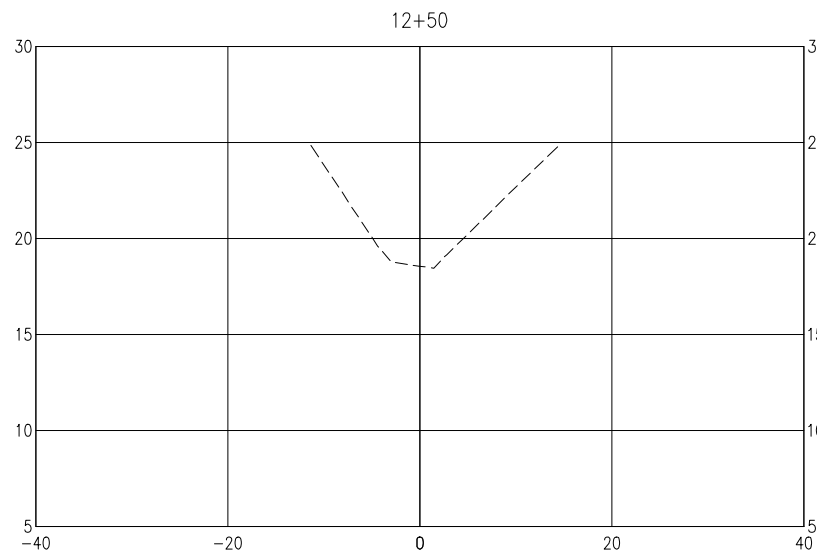
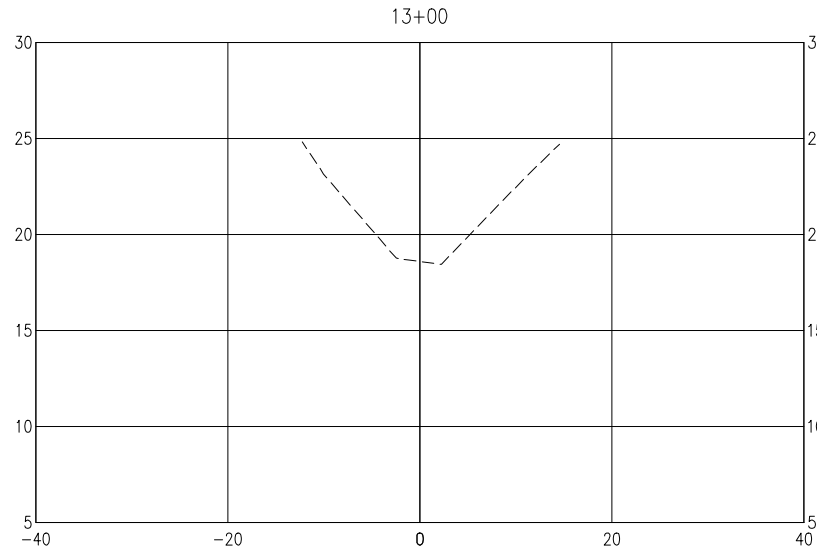
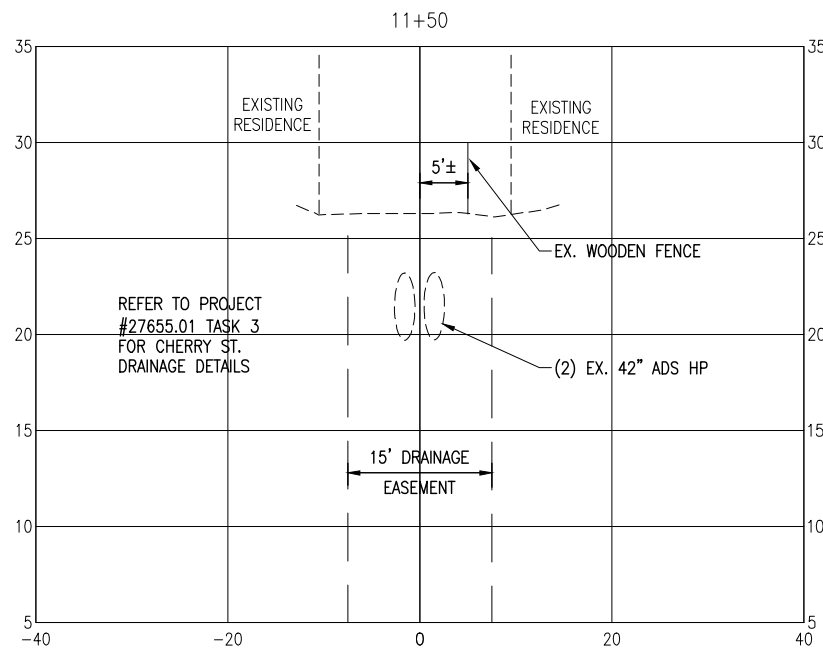
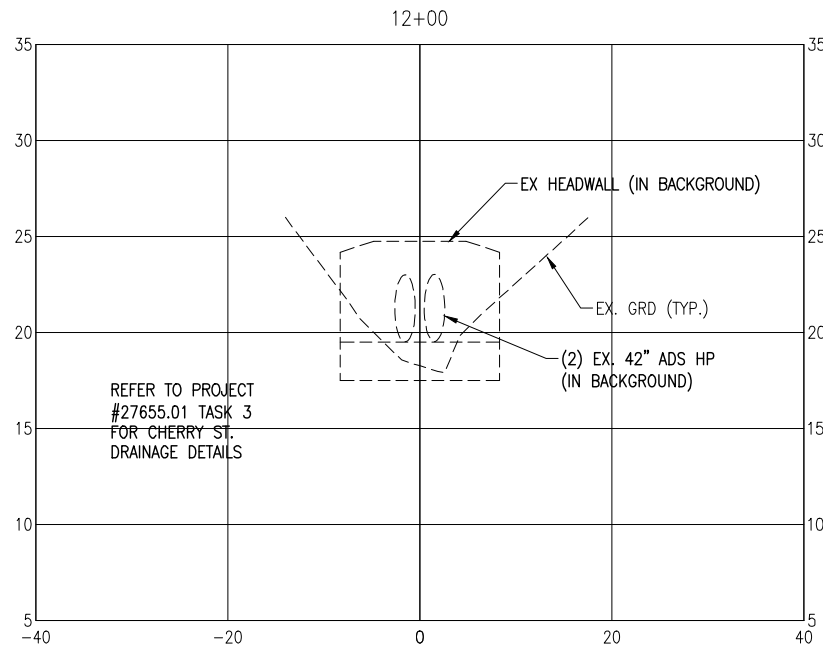
448 W. MAIN ST., PENSACOLA, FL 32502 (850)438-9861
ENGINEERING BUSINESS: EB-0000340

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Fl. Reg. Engineer #77540

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 448 W. MAIN ST., PENSACOLA, FL 32502 (850)438-9661
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KERRY C. PETERMAN, P.E.
 FL. Reg. Engineer #77540

**CHERRY STREET
 DRAINAGE IMPROVEMENTS
 (JAN DR TO ROGERS
 POND)**

NO.	DATE	APPR.	REVISION/ACTION TAKEN

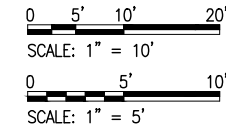
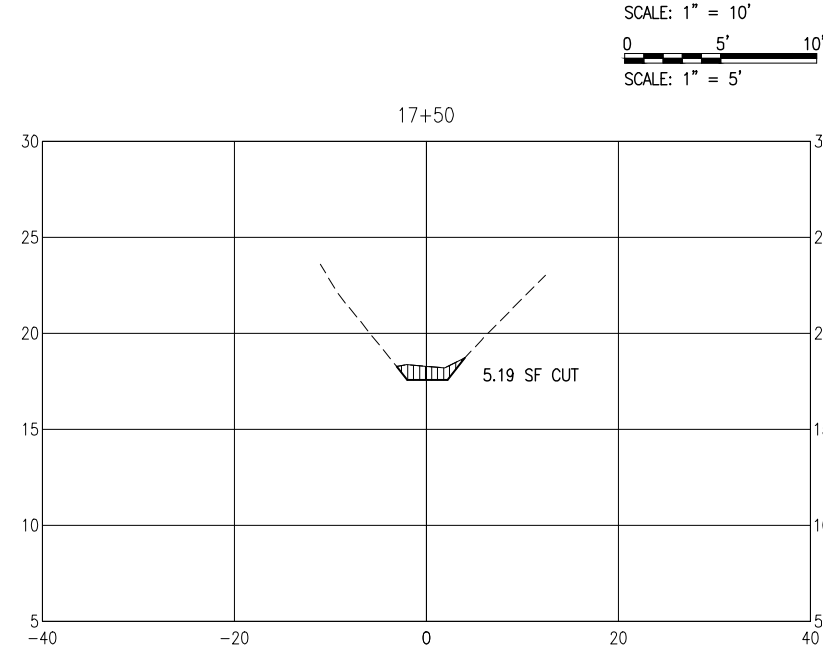
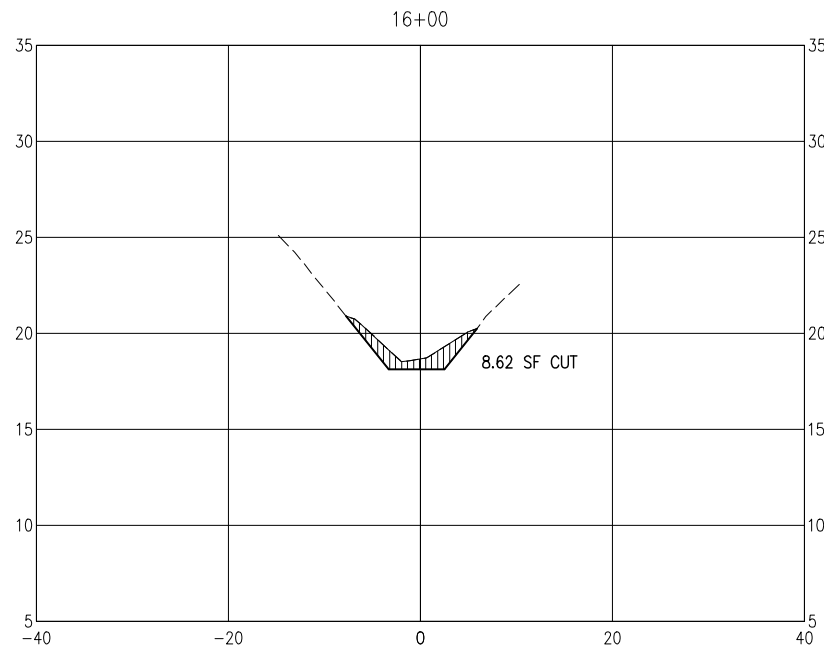
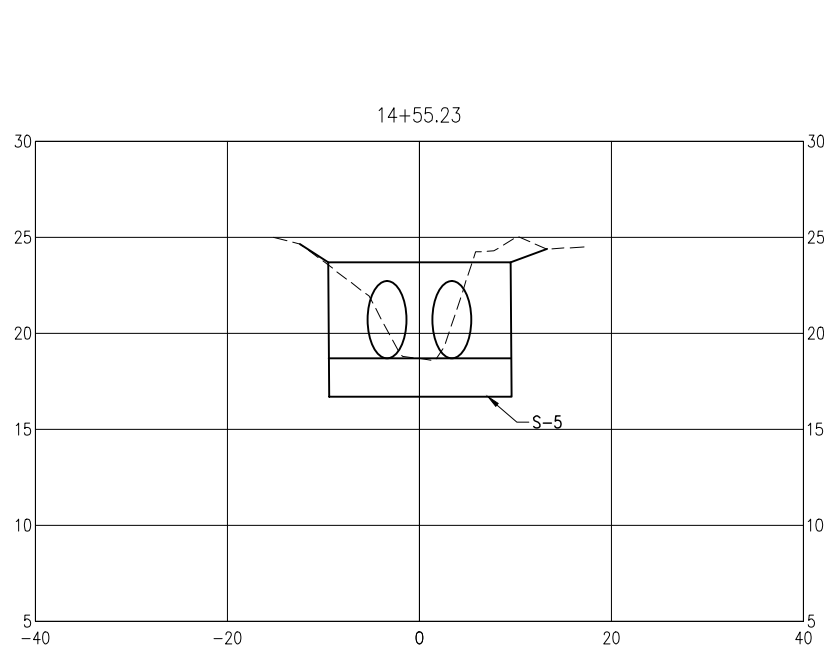
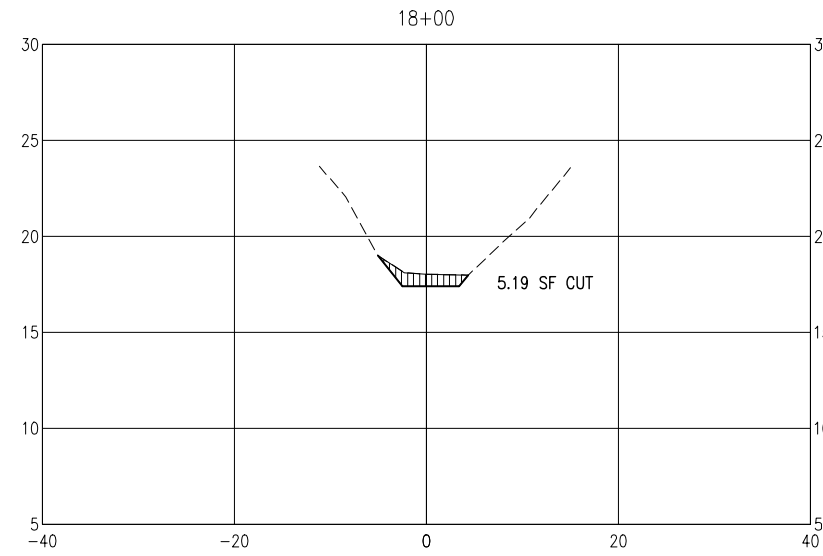
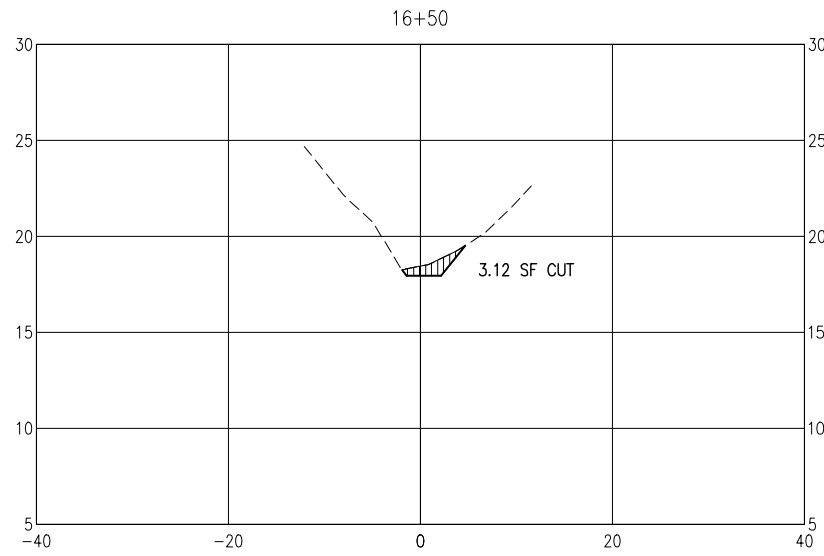
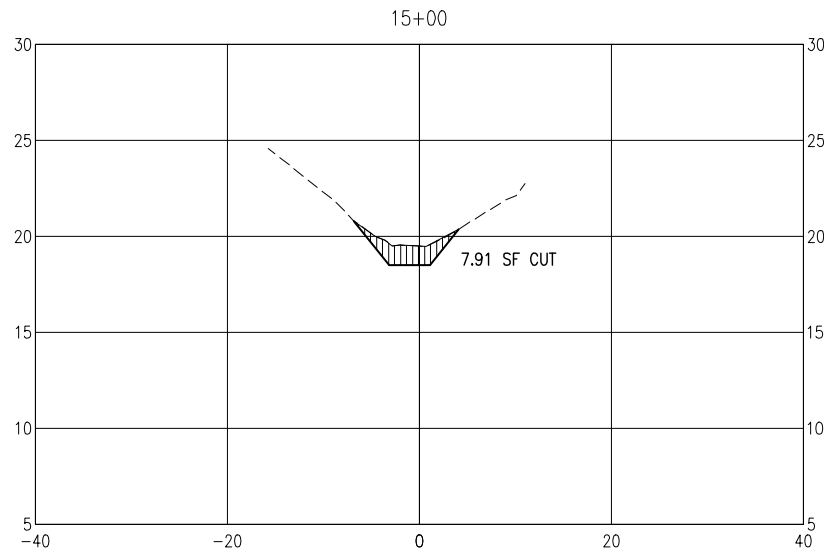
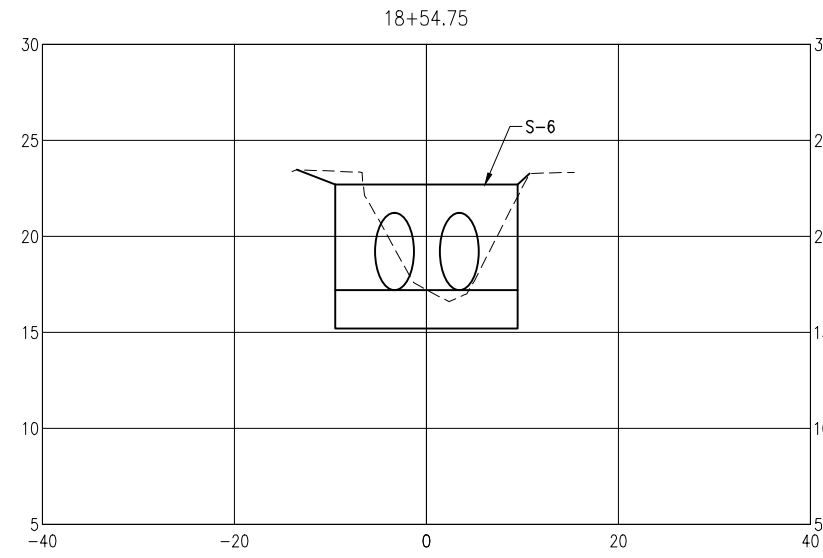
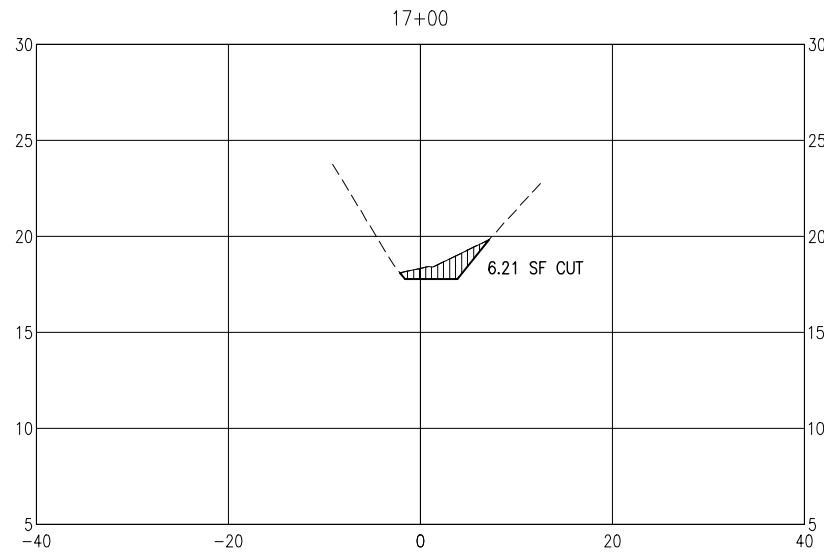
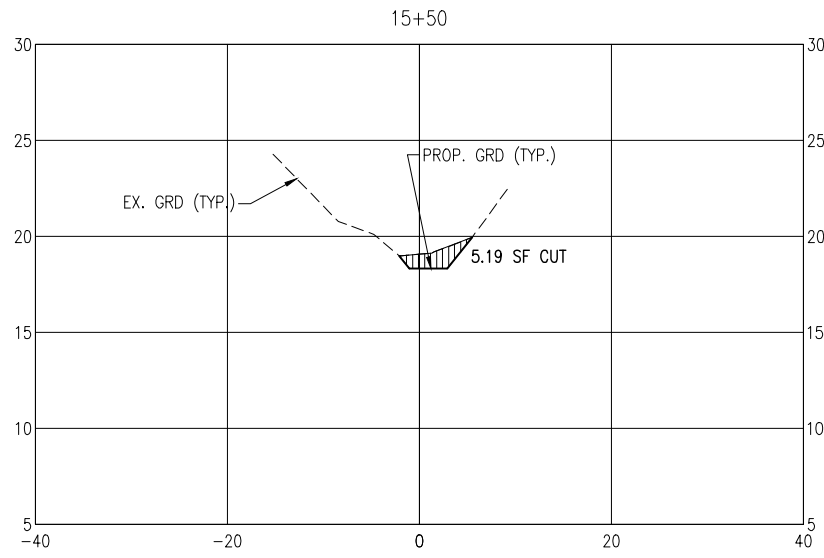
PROJECT NO: **27651.01**
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 PROJ. MGR: JCP
 DATE: MAR 2022

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 FL. Reg. Engineer #77540

**CHERRY STREET
 DRAINAGE IMPROVEMENTS
 (JAN DR TO ROGERS
 POND)**

NO.	DATE	APPR.	REVISION/ACTION TAKEN

PROJECT NO: **27651.01**
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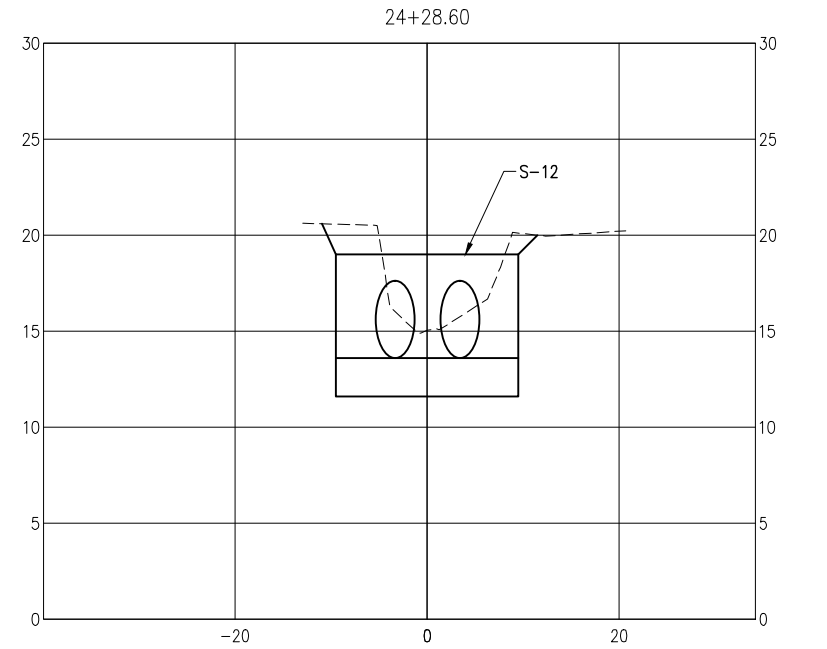
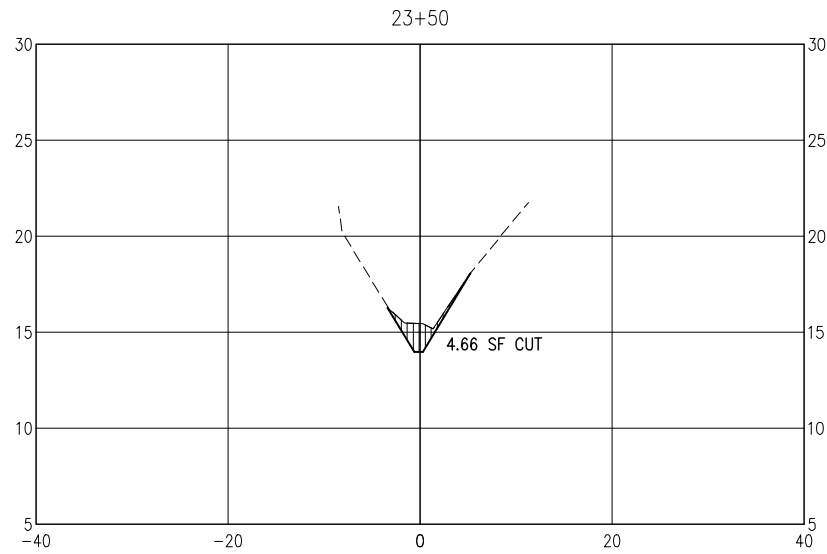
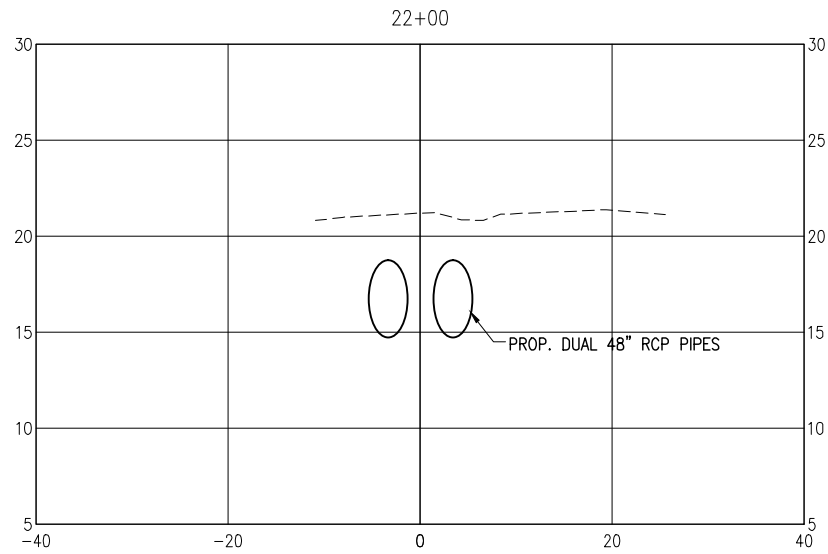
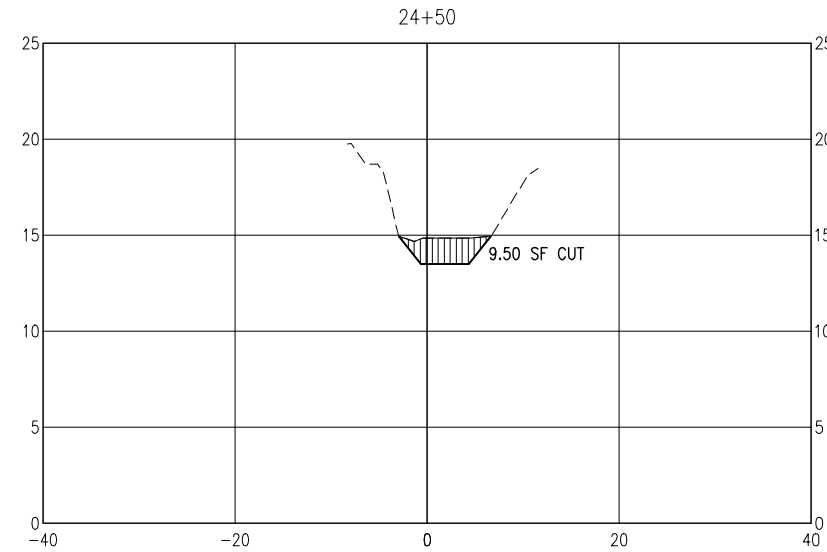
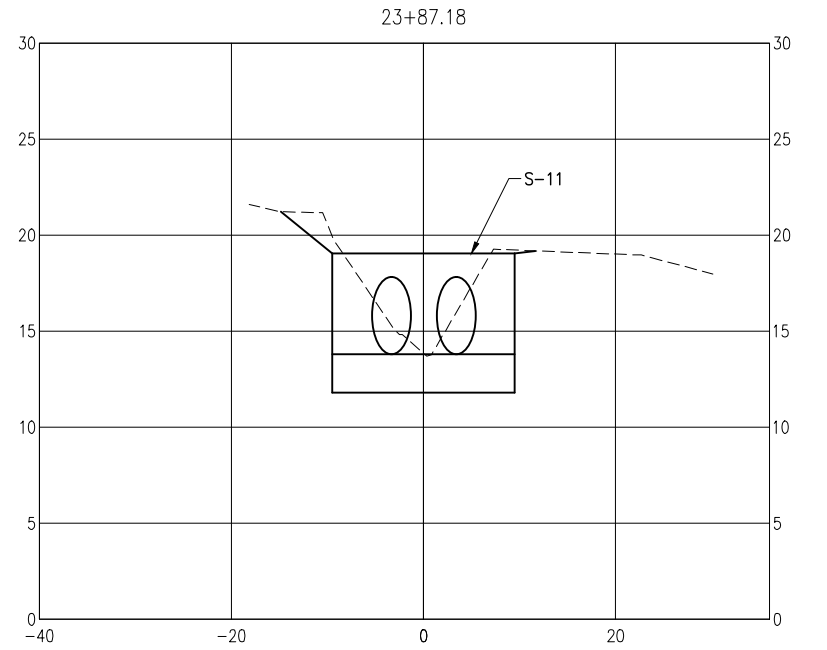
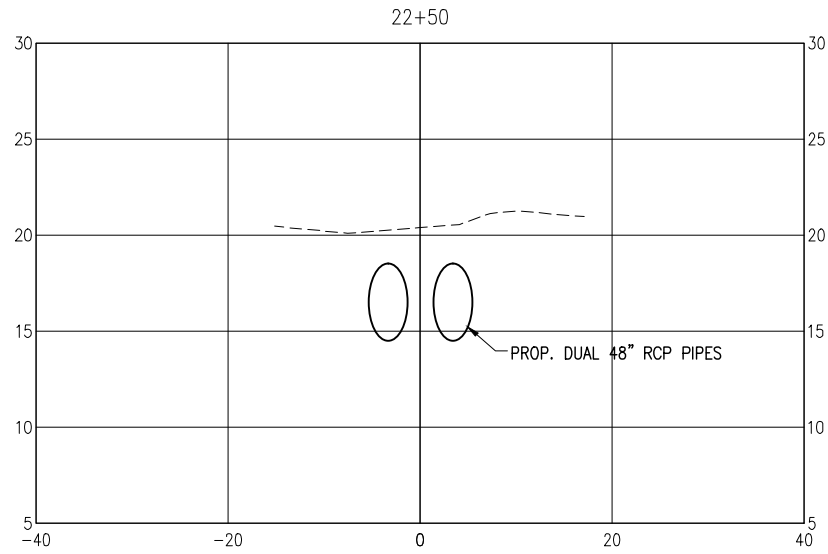
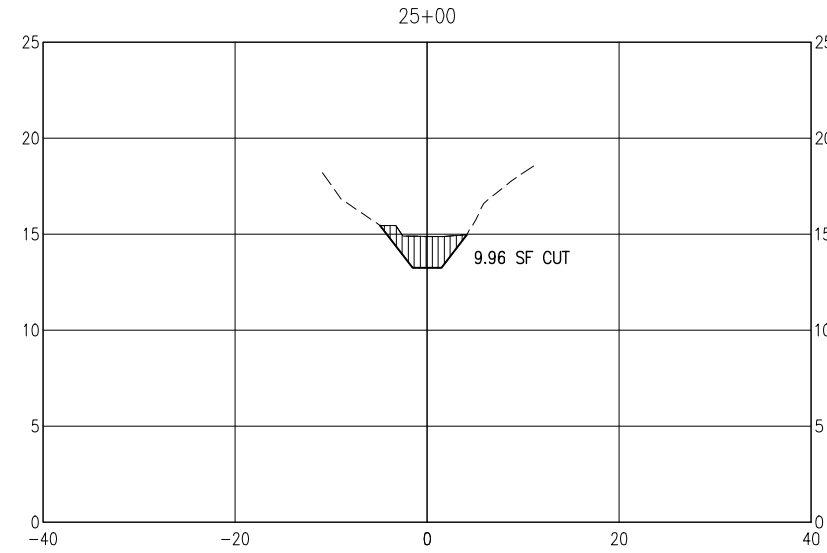
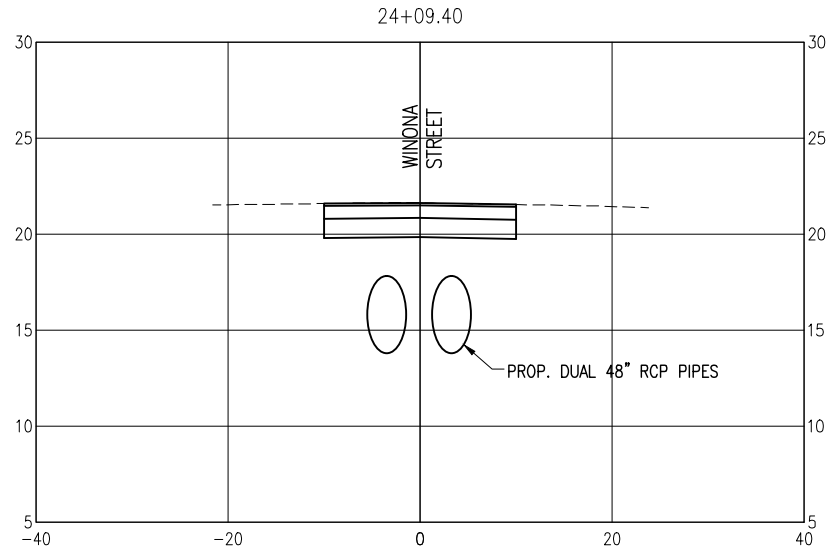
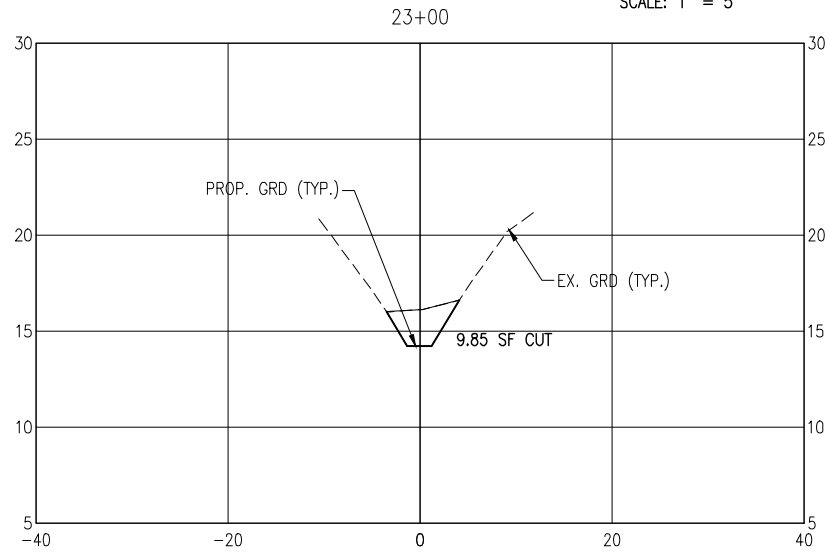
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C-113

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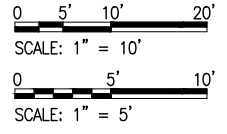
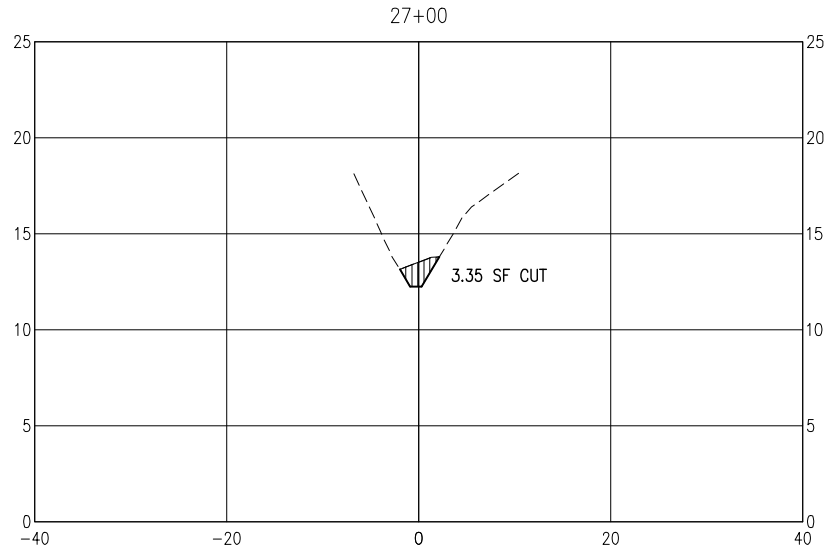
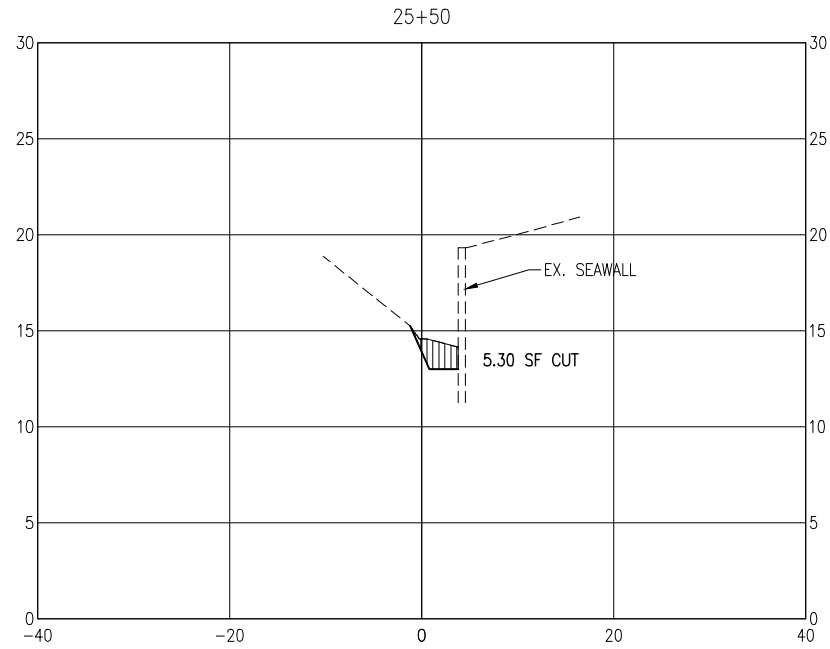
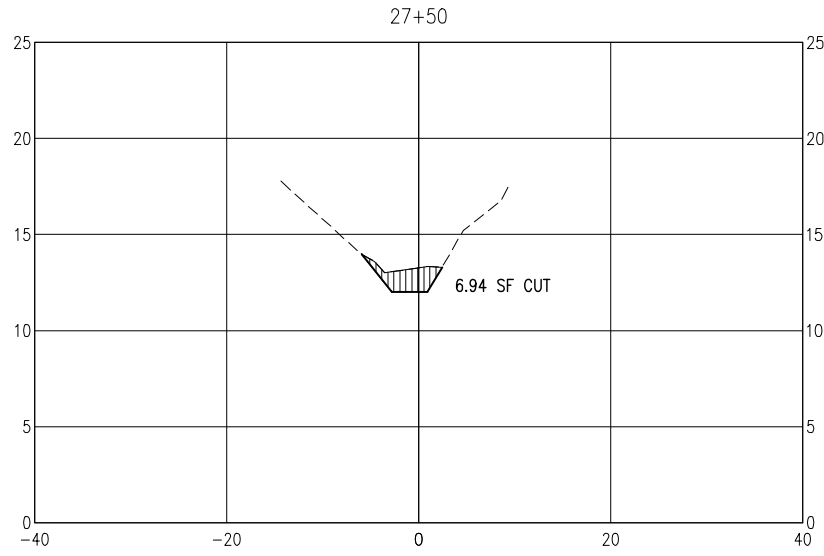
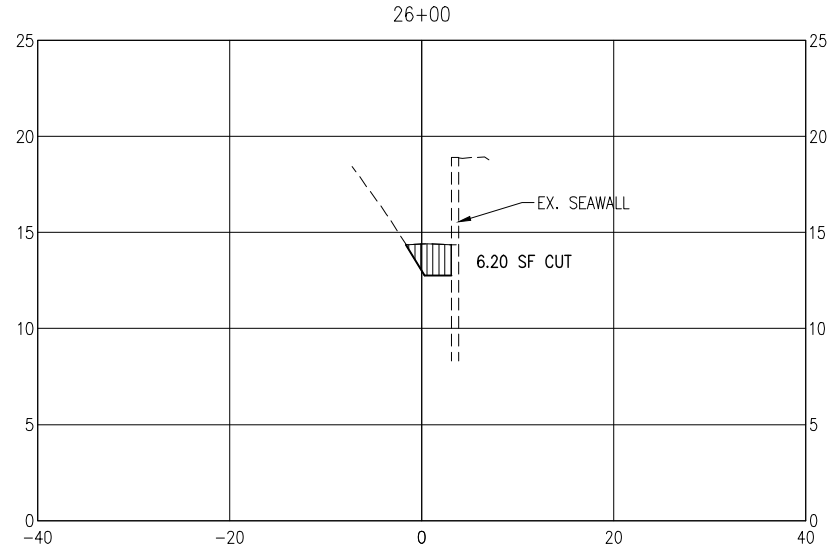
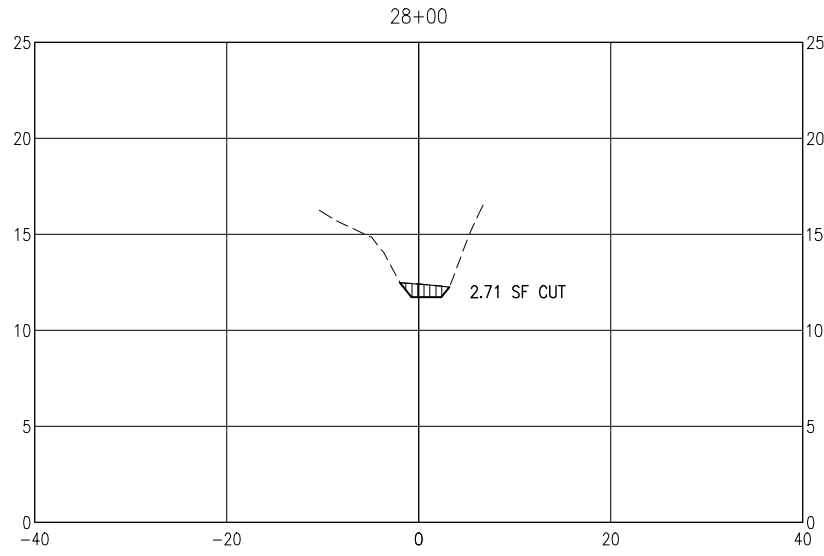
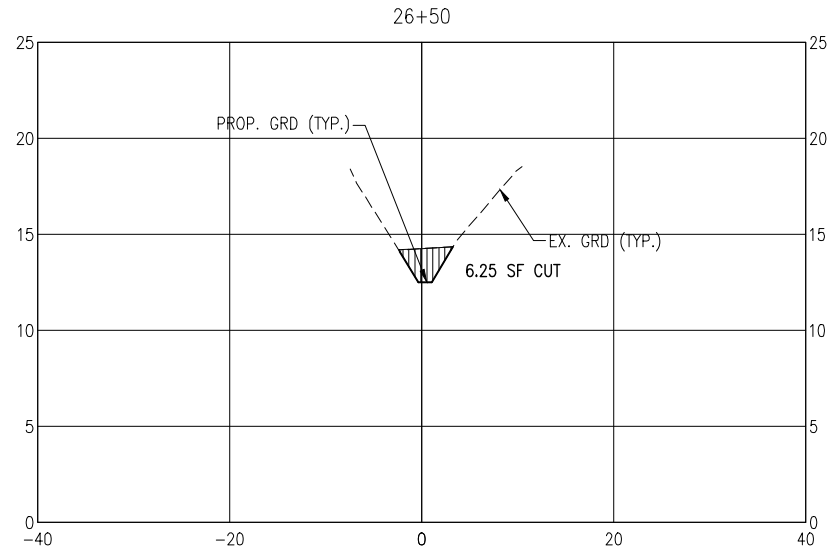


**CHERRY STREET
DRAINAGE IMPROVEMENTS
(JAN DR TO ROGERS
POND)**

PROJECT NO:	NO.	DATE	APPR.	REVISION/ACTION TAKEN
27651.01				
DESIGNED BY: GM				
DRAWN BY: RGC				
CHK'D BY: JCP				
PROJ. MGR: JCP				
DATE: MAR 2022				

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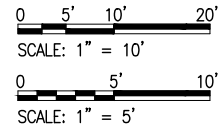
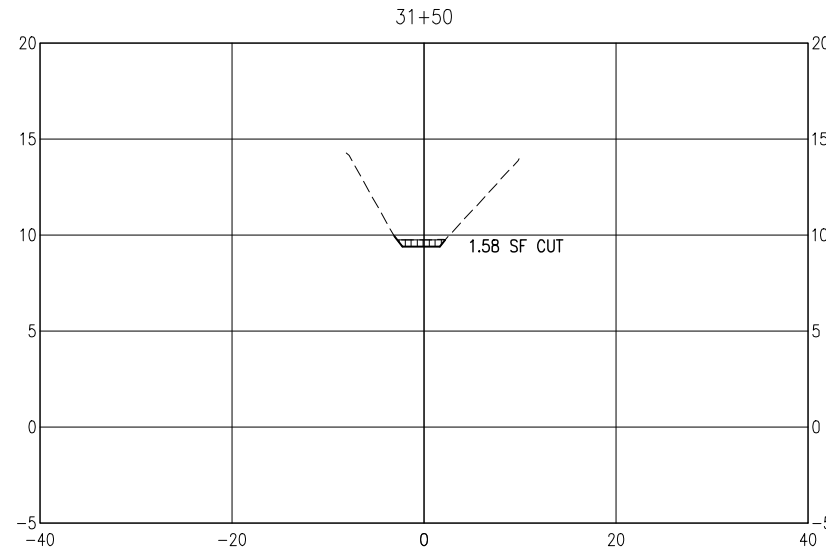
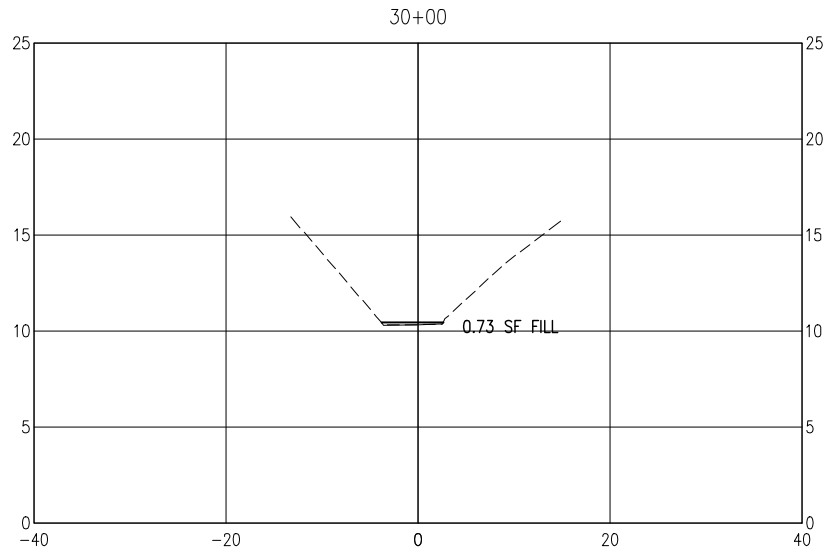
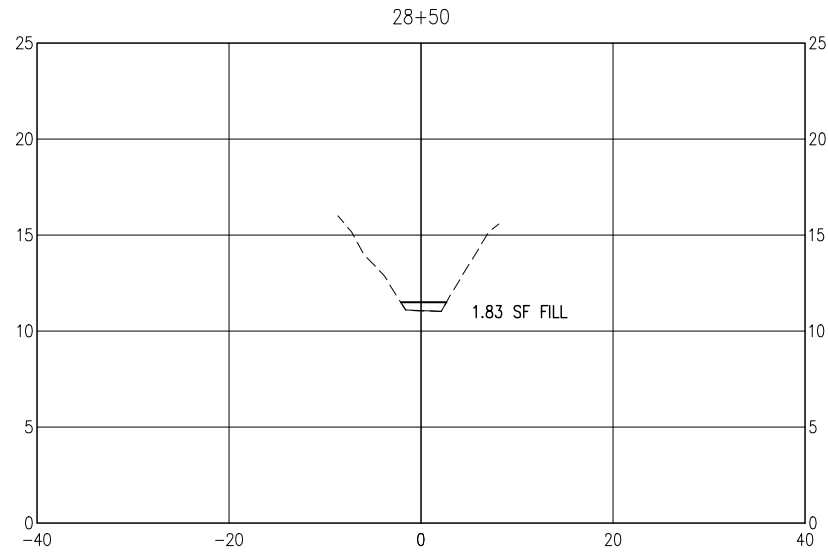
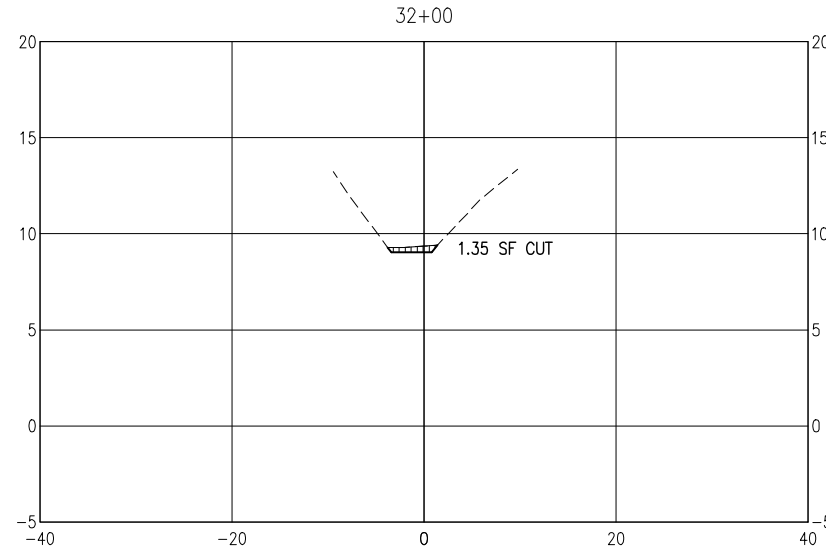
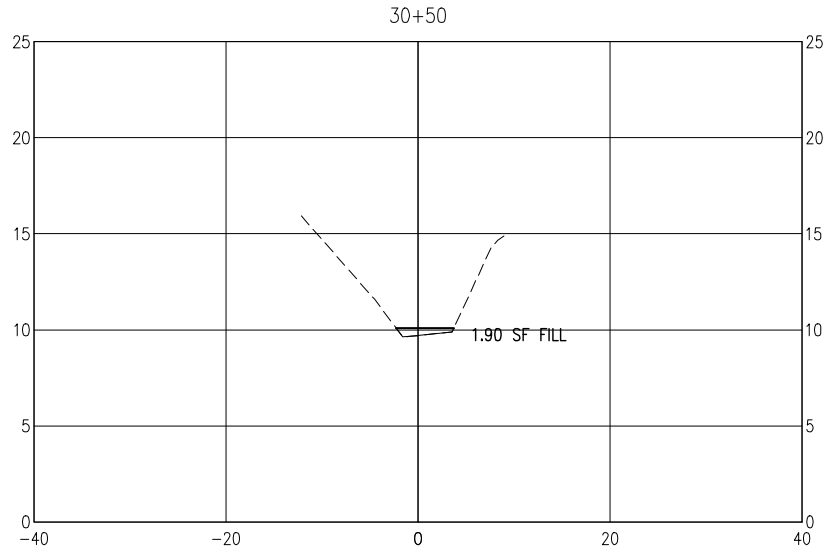
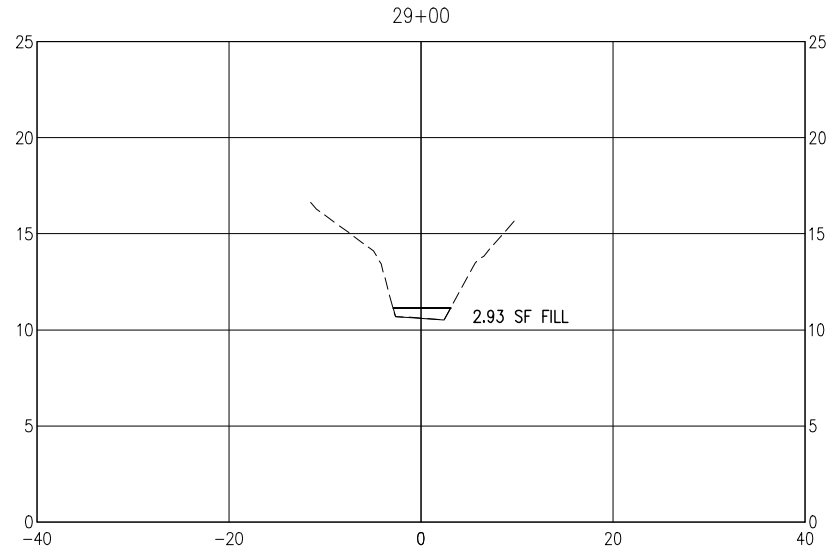
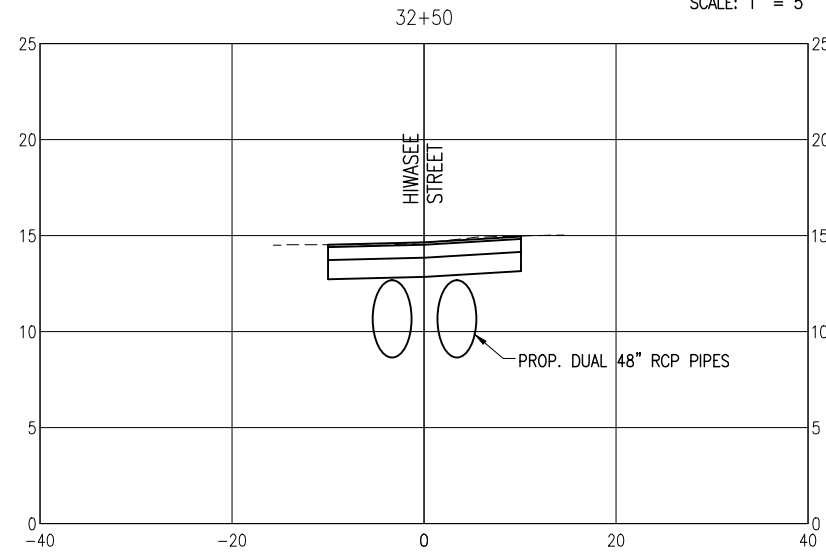
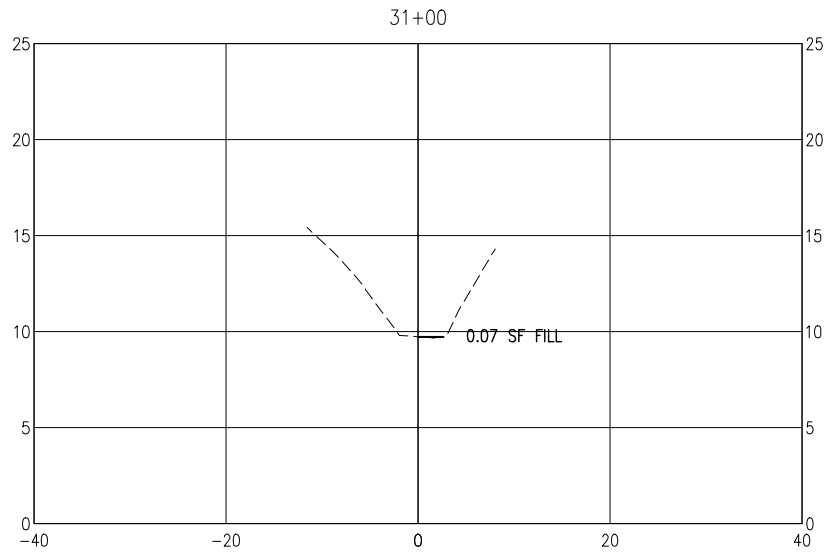
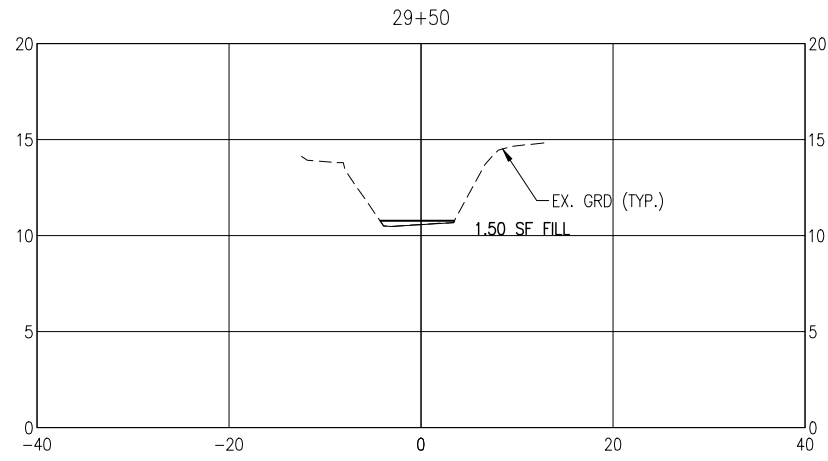
**CHERRY STREET
DRAINAGE IMPROVEMENTS
(JAN DR TO ROGERS
POND)**

PROJECT NO:	NO.	DATE	APPR.	REVISION/ACTION TAKEN
27651.01				
DESIGNED BY: GM				
DRAWN BY: RGC				
CHK'D BY: JCP				
PROJ. MGR: JCP				
DATE: MAR 2022				
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BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
448 W. MAIN ST., PENSACOLA, FL 32502 (850)438-9661
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ENGINEERING BUSINESS: EB-0000340
Panama City Beach - Tallahassee - Mobile
LESTER C. PETERMAN, P.E.
Fl. Reg. Engineer #77540

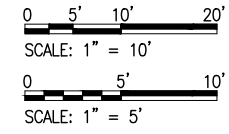
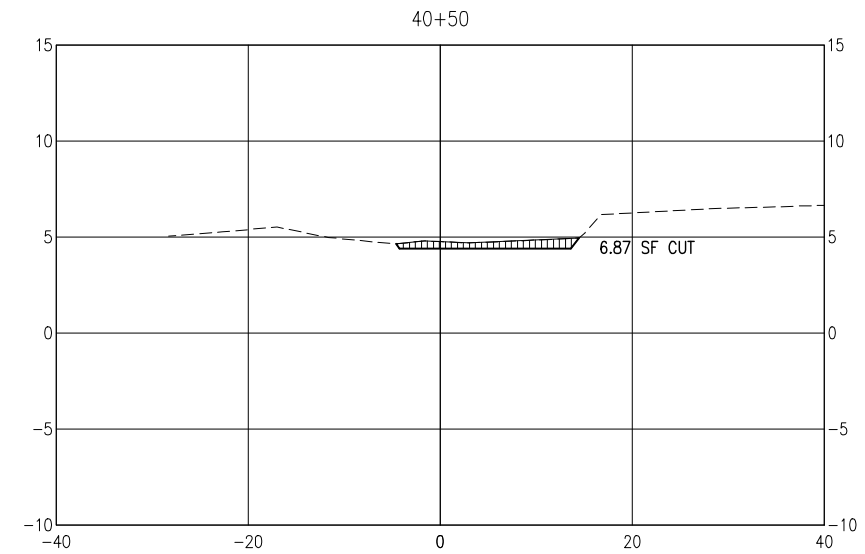
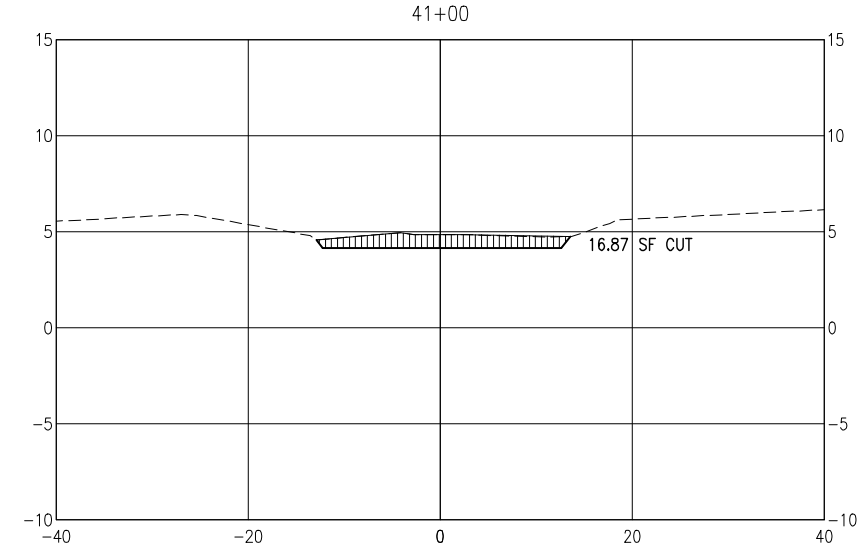
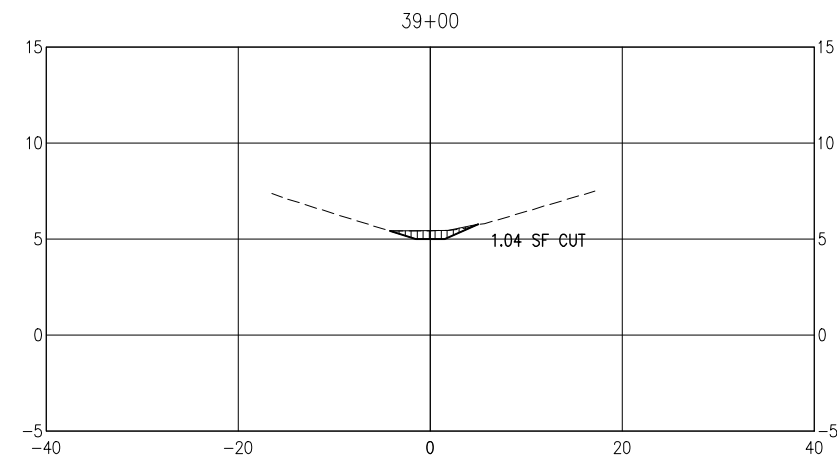
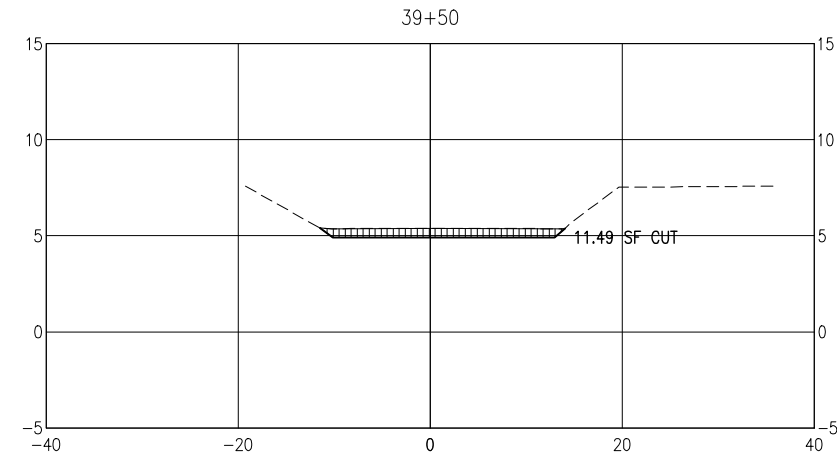
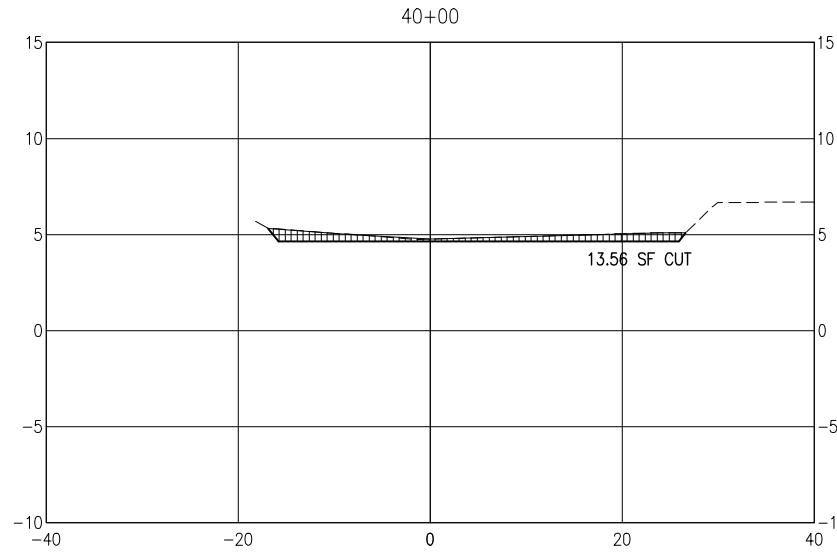
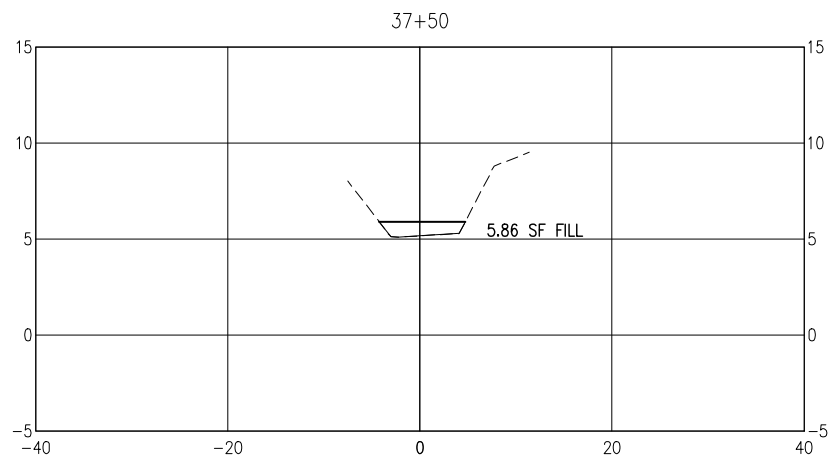
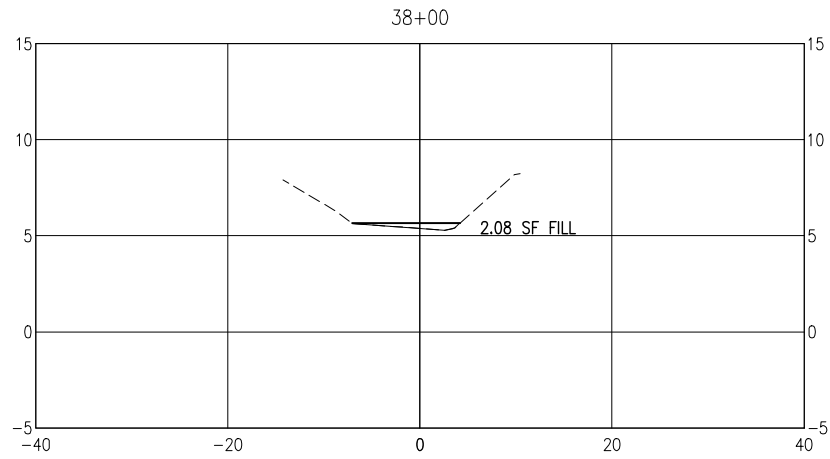
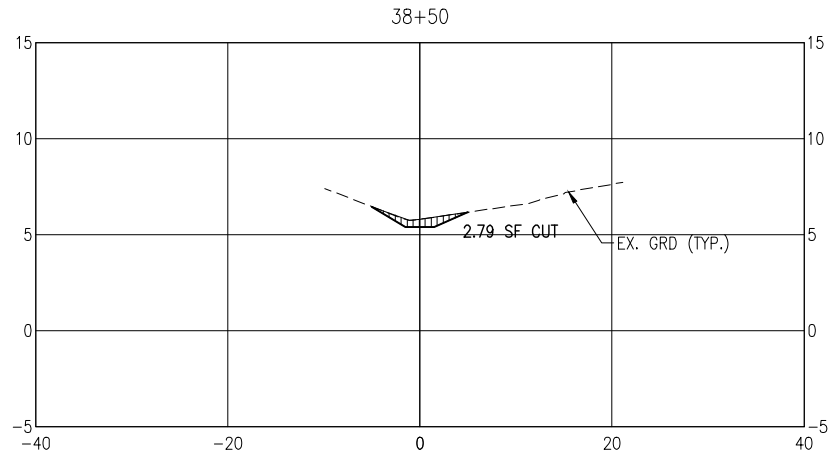
PROJECT NO:	DESIGNED BY:	DRAWN BY:	CHK'D BY:	PROJ. MGR:	DATE:
27651.01	GM	RCG	JCP	JCP	MAR 2022

NO.	DATE	APPR.	REVISION/ACTION TAKEN

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PROJECT NO: 27651.01
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 PROJ. MGR: JCP
 DATE: MAR 2022

NO.	DATE	APPR.	REVISION/ACTION TAKEN

CHERRY STREET
 DRAINAGE IMPROVEMENTS
 (JAN DR TO ROGERS
 POND)

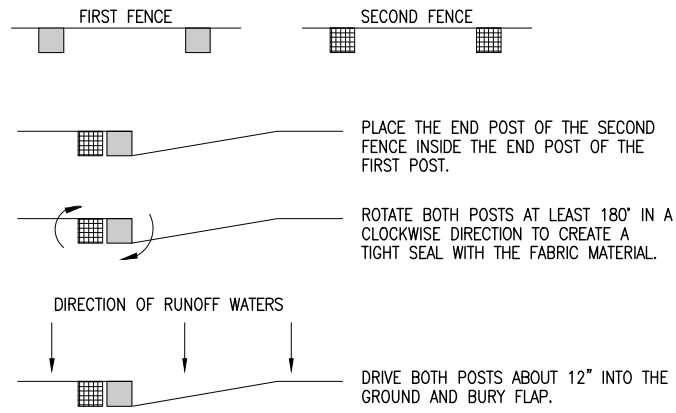
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 FL. Reg. Engineer #77540

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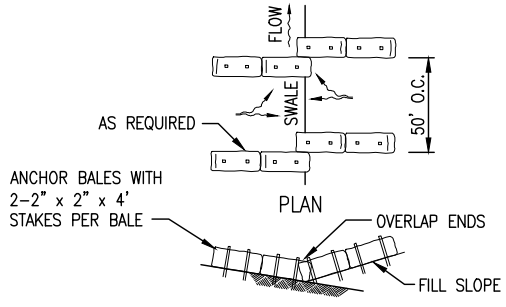
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 ENGINEERING BUSINESS: EB-0000340

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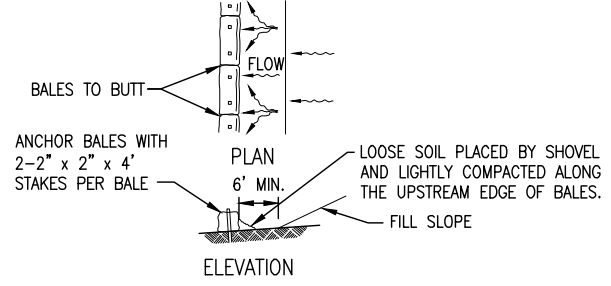
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BUTTING SILT FENCE DETAIL
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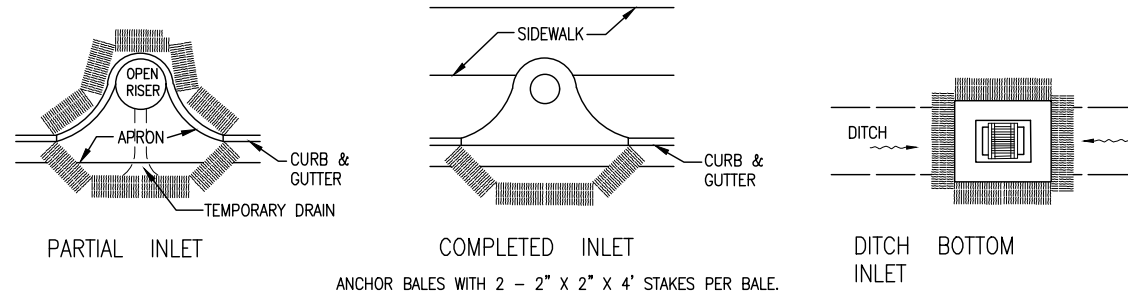


ELEVATION
TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE

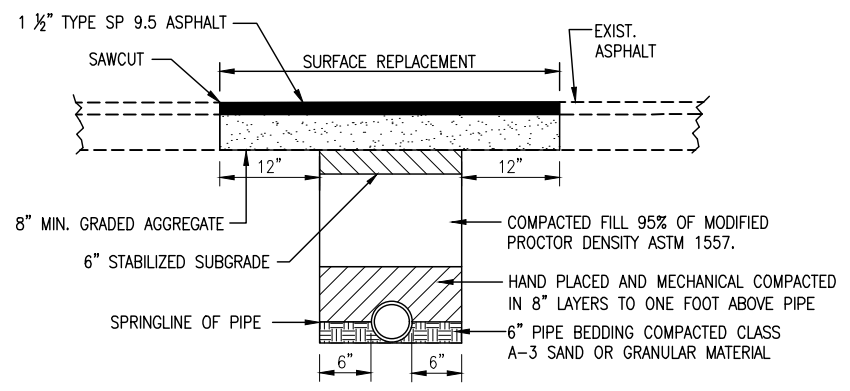


ELEVATION
TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE

BARRIERS FOR FILL SLOPES
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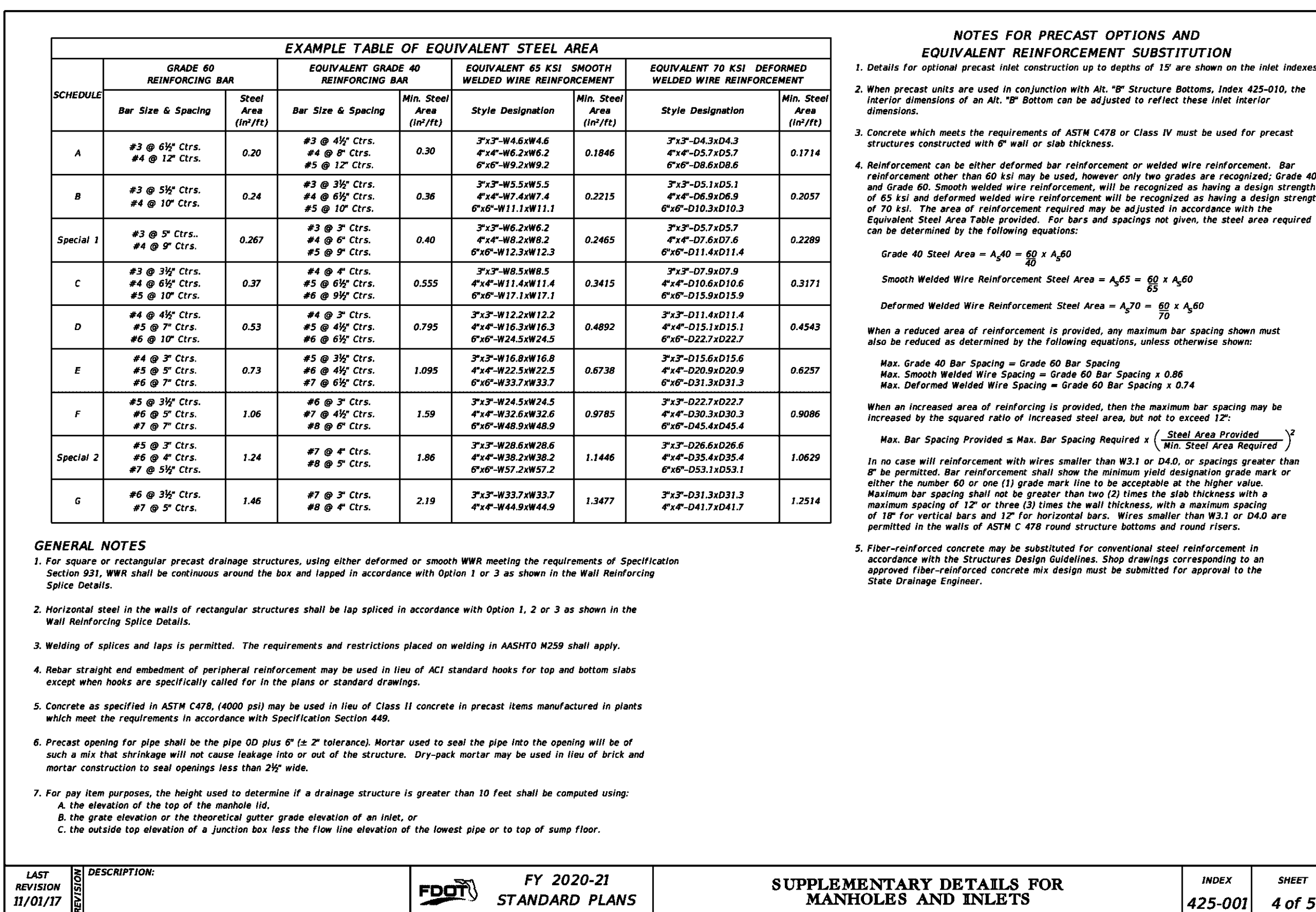
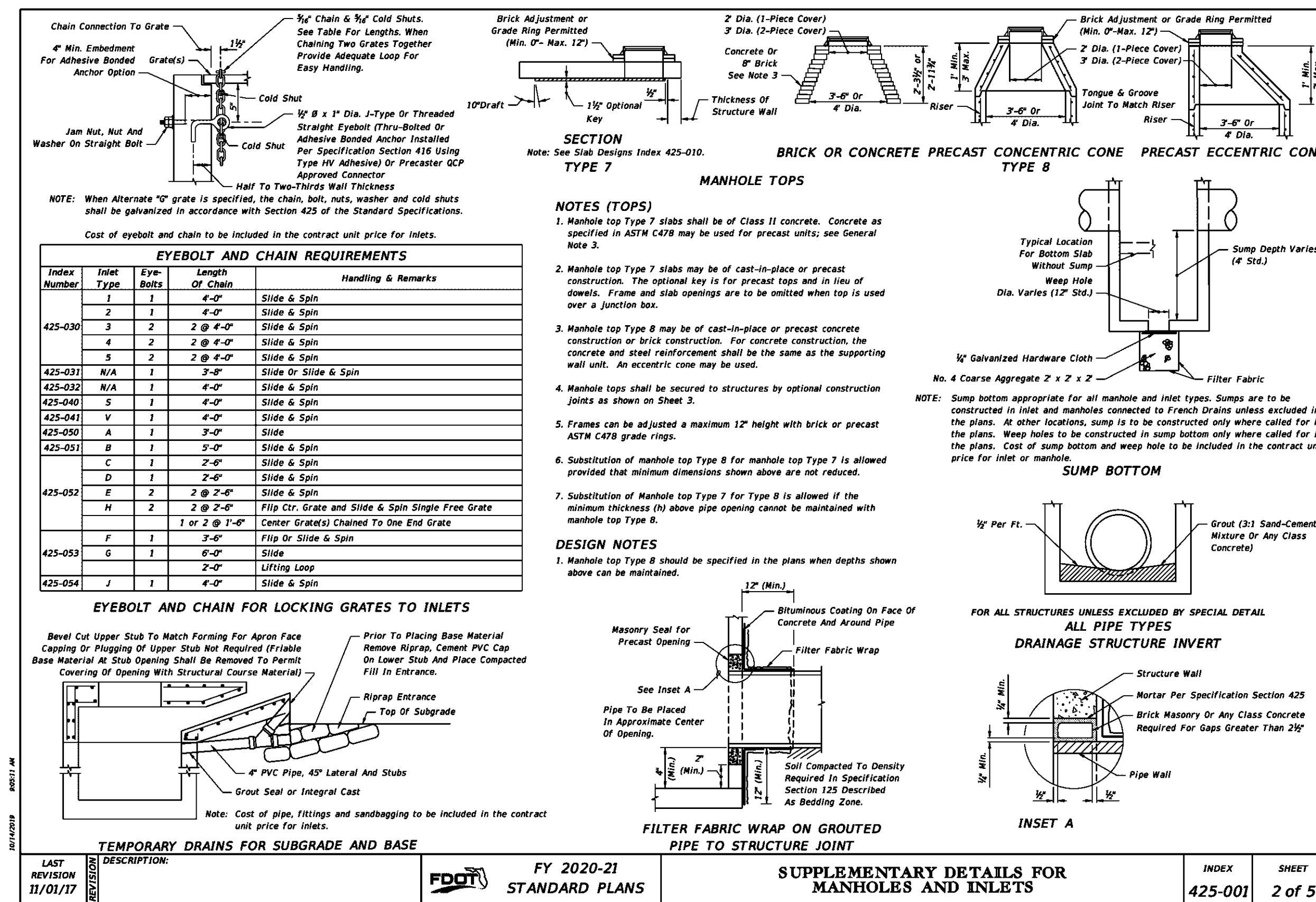
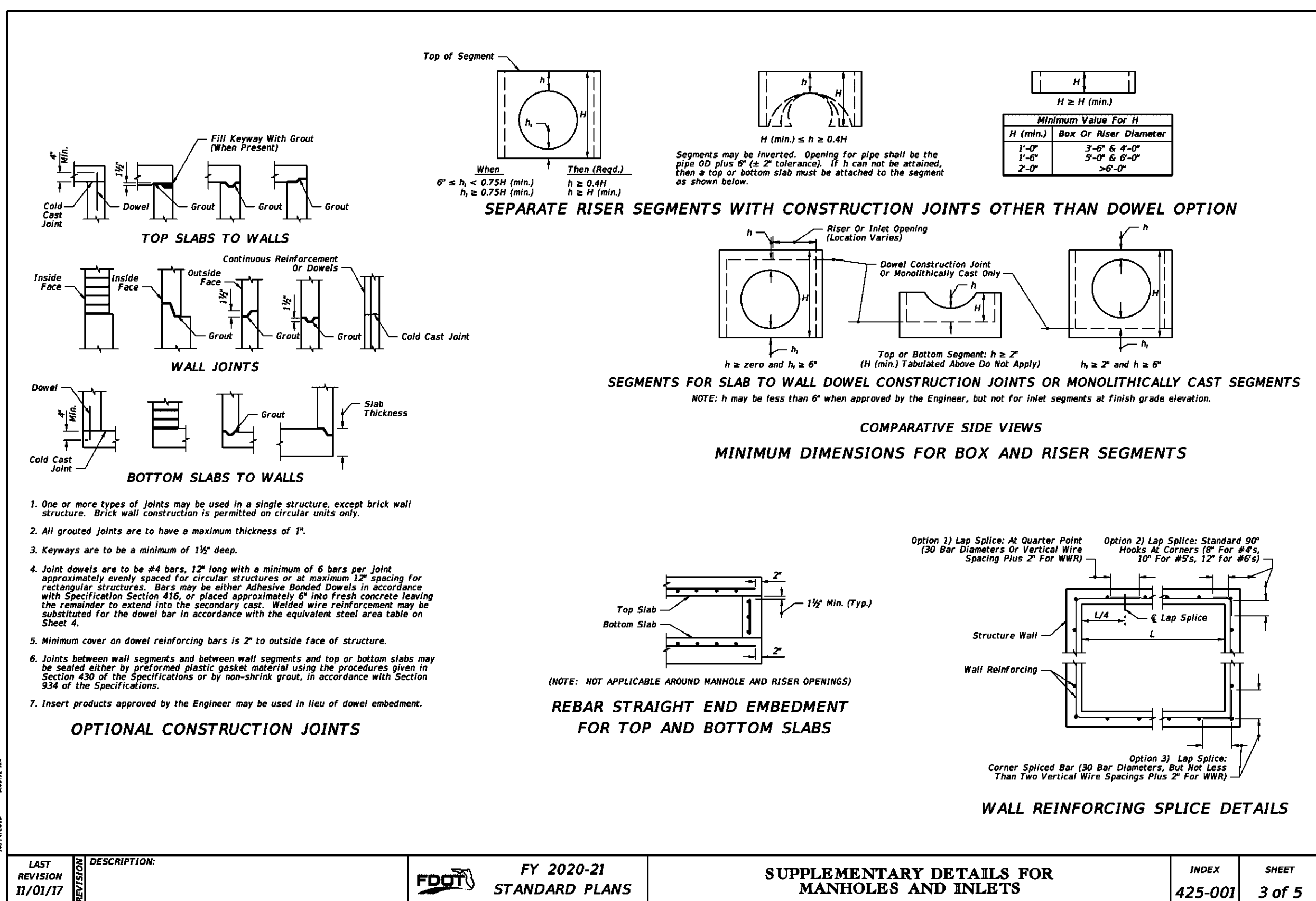
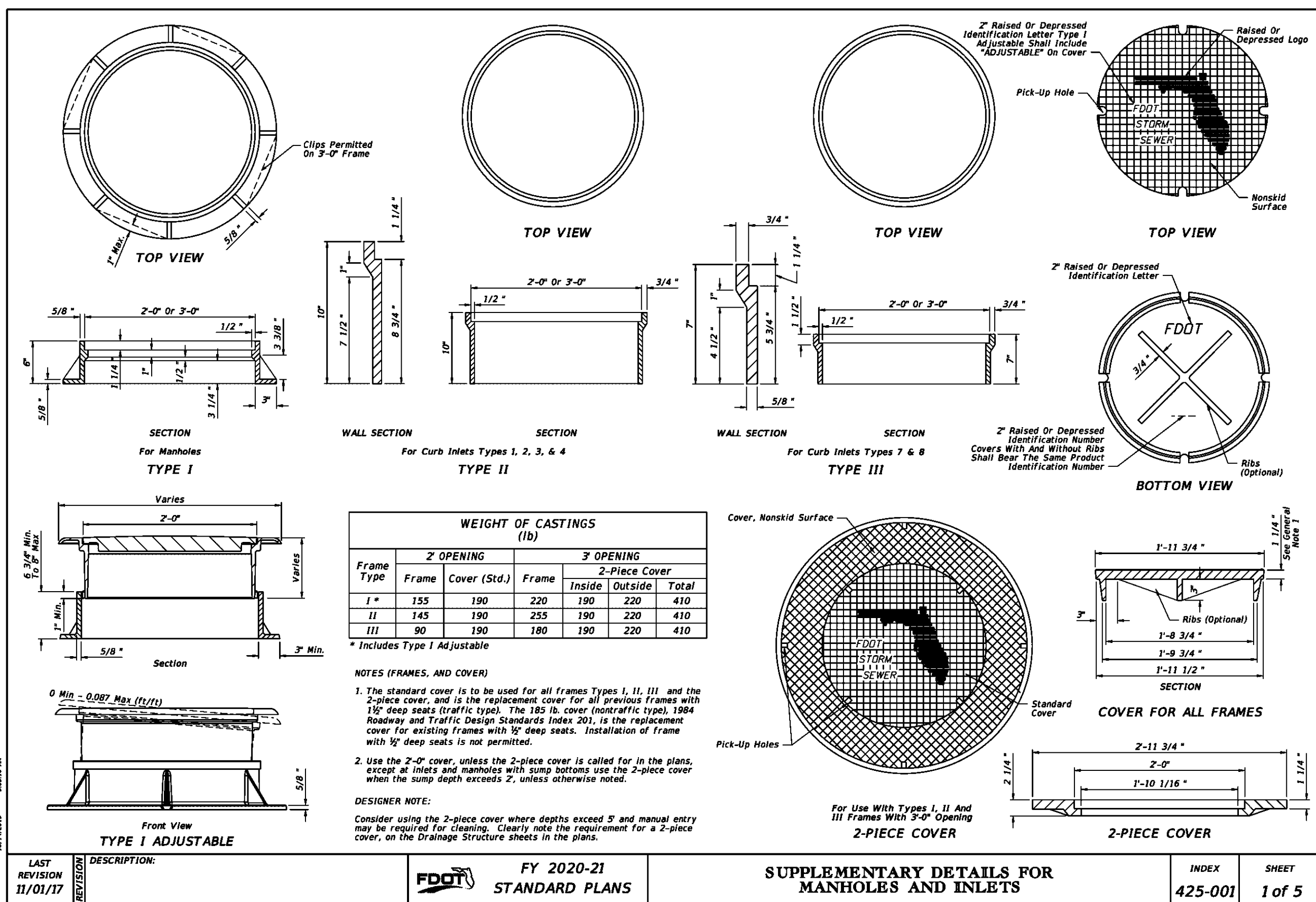
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES
NOT TO SCALE



GRADED AGGREGATE BASE LAYER SHALL BE COMPACTED TO 100% MODIFIED PROCTOR DENSITY AASHTO T-180. BACKFILL BELOW BASE LAYER WILL BE PLACED IN MAXIMUM 8-INCH THICK LOOSE LIFTS.

LATERAL PAVEMENT PATCH DETAIL
NOT TO SCALE

PROJECT NO:	NO.	DATE	APPR.	REVISION/ACTION TAKEN
27651.01				
DESIGNED BY: MDL				
DRAWN BY: RGG				
CHK'D BY: MDL				
PROJ. MGR: JCP				
DATE: MAR 2022				



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449 W. MAIN ST., PENSACOLA, FL 32502 (850)438-9661
ENGINEERING BUSINESS: EB-0000040
Pensacola - Panama City Beach - Tallahassee - Mobile

CHERRY STREET DRAINAGE IMPROVEMENTS (JAN DR TO ROGERS POND)

PROJECT NO: 27651.01
DESIGNED BY: MBL
DRAWN BY: RGC
CHK'D BY: MBL
PROD. MGR: JCP
DATE: MAR 2022

FOOT DETAILS

C-901

NO.	DATE	APPR.	REVISION/ACTION TAKEN

PROJECT NO:	27651.01
DESIGNED BY:	MIL
DRAWN BY:	RGG
CHK'D BY:	MIL
PROD. MGR.:	JCP
DATE:	MAR 2022

PICTORIAL VIEW

PLAN VIEW FOR SKEWS ≤ 45° (Not Centered)

PLAN VIEW FOR SKEWS > 45° (Not Centered)

RECTANGULAR SEGMENT WITH PIPE OPENING AT CORNER

DETAILS FOR SKEWED PIPES IN RECTANGULAR STRUCTURES

SECTION AA (Pipes Not Shown For Clarity)

DESIGNER NOTE: Use only when round structures are not practical, engineer of record approval required.

NOTE:

1. Submit Shop Drawings of corner openings for approval by the Engineer of Record.
2. h_1 may be less than 1'-0" when a minimum 1'-0" deep segment, 6" slab or curb inset is provided above the corner opening.
3. For inlet segments at finish grade elevation substitute a #8 bar for the top corner bar when 1'-0" ≤ h_1 < 2'-0".

LAST REVISION	DESCRIPTION:	FY 2020-21	SUPPLEMENTARY DETAILS FOR MANHOLES AND INLETS	INDEX	SHEET
11/01/17		STANDARD PLANS		425-001	5 of 5

TOP SLAB REINFORCING STEEL DIAGRAM (ALTERNATE A)

TOP SLAB REINFORCING STEEL DIAGRAM (ALTERNATE B)

SECTION C-C SPECIAL TOP SLAB*

SECTION A-A (ALTERNATE A)

SECTION B-B (ALTERNATE B)

TYPICAL SLAB TO WALL DETAILS FOR PRECAST STRUCTURES

NOTE:

1. When the inside diameter of a round structure is not more than 1'-0" larger than the opening in the riser or top slab, the top of the structure or riser shall be constructed according to the "Special Top Slab" details on this sheet.
2. Provide one extra #4 bar reinforcement each side of each opening and two extra #4 bars at 3" min. spacing above each opening.

LAST REVISION	DESCRIPTION:	FY 2020-21	STRUCTURE BOTTOMS TYPE J AND P	INDEX	SHEET
11/01/19		STANDARD PLANS		425-010	1 of 5

PIPE SIZE	RECTANGULAR (L) x (W)	ROUND (D)
18"	3'-0" x 3'-0"	3'-0"
24"	3'-0" x 4'-0"	3'-6"
30"	4'-0" x 4'-0"	4'-0"
36"	4'-0" x 5'-0"	4'-6"
42"	5'-0" x 5'-0"	5'-0"
48"	5'-0" x 6'-0"	5'-6"
54"	6'-0" x 6'-0"	6'-0"
60"	6'-0" x 7'-0"	6'-6"
66"	7'-0" x 7'-0"	7'-0"
72"	7'-0" x 8'-0"	7'-6"
78"	8'-0" x 8'-0"	8'-0"
84"	8'-0" x 9'-0"	8'-6"
	12'-0"	N/A

TABLE 3 NOTES:

1. For Round Structures sizes with variable angles between pipes and variable pipe sizes, refer to the FDOT Storm Drain Handbook.
2. For 3'-0" Precast Square Structure Bottoms, 30" Pipes with similar invert elevations are not permitted in adjacent walls. Use 4'-0" Side Dimensions when 30" pipe openings are required on adjacent walls and the difference in flow lines is less than 3'-0".
3. For 4'-0" Precast Square Structure Bottoms, 30" Pipes with similar invert elevations are not permitted in adjacent walls. Use 5'-0" Side Dimensions when 30" pipe openings are required on adjacent walls and the difference in flow lines is less than 3'-0".
4. For 7'-0" Precast Square Structure Bottoms, 60" Pipes with similar invert elevations are not permitted in adjacent walls. Use 8'-0" Side Dimensions when 60" pipe openings are required on adjacent walls and the difference in flow lines is less than 4'-0".

TABLE 4-MINIMUM SIZES FOR MULTIPLE PARALLEL PIPE CONNECTIONS FOR RECTANGULAR STRUCTURE BOTTOMS

PIPE SIZE	SPACING	MINIMUM WALL LENGTH (L) FOR NUMBER OF PARALLEL PIPES
18"	2'-10"	8'-0"
24"	2'-3"	10'-0"
30"	4'-3"	12'-0"
36"	3'-1"	14'-0"
42"	11'-0"	17'-0"
48"	6'-0"	19'-0"
54"	15'-0"	
60"	6'-0"	19'-0"
66"	9'-0"	19'-0"
72"	10'-0"	
78"	10'-0"	19'-0"
84"	11'-0"	20'-0"

TABLE 4 NOTES:

1. Minimum wall lengths based on precast structures, using concrete pipe with maximum skew angles per Table 5.
2. Wall lengths exceeding 20'-0" require special designs.

TABLE 5 - MAXIMUM PIPE SKEW FOR PRECAST ROUND OPENINGS

WALL THICKNESS	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"
MAXIMUM SKEW ANGLE	6°	11°	12°	13°	13°	13°	13°	13°	13°	13°	13°	13°

TABLE 5 NOTES: These values are based on 2" clearance for precast structures. Larger skew angles are possible for Cast-in-Place Structures or elliptical pipe openings when approved by the Engineer.

MAXIMUM PIPE SKEW FOR PRECAST ROUND OPENINGS PLAN VIEW

MULTIPLE PARALLEL PIPE CONNECTIONS DETAIL PLAN VIEW

PRECAST ROUND STRUCTURES WITH MULTIPLE PIPE CONNECTIONS

LAST REVISION	DESCRIPTION:	FY 2020-21	STRUCTURE BOTTOMS TYPE J AND P	INDEX	SHEET
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PIPE SIZE	RECTANGULAR (L) x (W)	ROUND (D)
18"	3'-0" x 3'-0"	3'-0"
24"	3'-0" x 4'-0"	3'-6"
30"	4'-0" x 4'-0"	4'-0"
36"	4'-0" x 5'-0"	4'-6"
42"	5'-0" x 5'-0"	5'-0"
48"	5'-0" x 6'-0"	5'-6"
54"	6'-0" x 6'-0"	6'-0"
60"	6'-0" x 7'-0"	6'-6"
66"	7'-0" x 7'-0"	7'-0"
72"	7'-0" x 8'-0"	7'-6"
78"	8'-0" x 8'-0"	8'-0"
84"	8'-0" x 9'-0"	8'-6"
	12'-0"	N/A

TABLE 3 NOTES:

1. For Round Structures sizes with variable angles between pipes and variable pipe sizes, refer to the FDOT Storm Drain Handbook.
2. For 3'-0" Precast Square Structure Bottoms, 30" Pipes with similar invert elevations are not permitted in adjacent walls. Use 4'-0" Side Dimensions when 30" pipe openings are required on adjacent walls and the difference in flow lines is less than 3'-0".
3. For 4'-0" Precast Square Structure Bottoms, 30" Pipes with similar invert elevations are not permitted in adjacent walls. Use 5'-0" Side Dimensions when 30" pipe openings are required on adjacent walls and the difference in flow lines is less than 3'-0".
4. For 7'-0" Precast Square Structure Bottoms, 60" Pipes with similar invert elevations are not permitted in adjacent walls. Use 8'-0" Side Dimensions when 60" pipe openings are required on adjacent walls and the difference in flow lines is less than 4'-0".

TABLE 4-MINIMUM SIZES FOR MULTIPLE PARALLEL PIPE CONNECTIONS FOR RECTANGULAR STRUCTURE BOTTOMS

PIPE SIZE	SPACING	MINIMUM WALL LENGTH (L) FOR NUMBER OF PARALLEL PIPES
18"	2'-10"	8'-0"
24"	2'-3"	10'-0"
30"	4'-3"	12'-0"
36"	3'-1"	14'-0"
42"	11'-0"	17'-0"
48"	6'-0"	19'-0"
54"	15'-0"	
60"	6'-0"	19'-0"
66"	9'-0"	19'-0"
72"	10'-0"	
78"	10'-0"	19'-0"
84"	11'-0"	20'-0"

TABLE 4 NOTES:

1. Minimum wall lengths based on precast structures, using concrete pipe with maximum skew angles per Table 5.
2. Wall lengths exceeding 20'-0" require special designs.

TABLE 5 - MAXIMUM PIPE SKEW FOR PRECAST ROUND OPENINGS

WALL THICKNESS	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"
MAXIMUM SKEW ANGLE	6°	11°	12°	13°	13°	13°	13°	13°	13°	13°	13°	13°

TABLE 5 NOTES: These values are based on 2" clearance for precast structures. Larger skew angles are possible for Cast-in-Place Structures or elliptical pipe openings when approved by the Engineer.

MAXIMUM PIPE SKEW FOR PRECAST ROUND OPENINGS PLAN VIEW

MULTIPLE PARALLEL PIPE CONNECTIONS DETAIL PLAN VIEW

PRECAST ROUND STRUCTURES WITH MULTIPLE PIPE CONNECTIONS

LAST REVISION	DESCRIPTION:	FY 2020-21	STRUCTURE BOTTOMS TYPE J AND P	INDEX	SHEET
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SLAB DESIGNS - SQUARE AND RECTANGULAR STRUCTURES (TABLE 6)
(ALL SLABS 8" THICK EXCEPT AS NOTED - REINFORCING PARALLEL TO SHORT WAY AND LONG WAY)

SHORT-WAY		LONG-WAY	
SLAB DEPTH	SCHEDULE (Bars A)	SLAB DEPTH	SCHEDULE (Bars B)
SIZE: 3'-0" x UNLIMITED			
8" < 12"	B10	8" < 12"	B10
12" < 31"	C6.5	24" < 40"	B5.5
31" < 40"	D7		
SIZE: 4' x UNLIMITED			
8" < 12"	B10	8" < 12"	B10
12" < 31"	C6.5	24" < 40"	C6.5
31" < 40"	D7		
SIZE: 5' x UNLIMITED			
8" < 12"	B10	8" < 12"	B10
12" < 31"	C6.5	24" < 40"	C6.5
31" < 40"	D7		

SLAB DESIGNS - ROUND STRUCTURES (TABLE 7)

SHORT-WAY		LONG-WAY	
SLAB DEPTH	SCHEDULE (Bars A)	SLAB DEPTH	SCHEDULE (Bars B)
SIZE: 3'-0" DIAMETER			
8" < 12"	D7	8" < 12"	D4.5
12" < 31"	F5	12" < 31"	F5
31" < 40"	G5	31" < 40"	G5.5
SIZE: 4'-0" DIAMETER			
8" < 12"	D7	8" < 12"	D7
12" < 31"	F5	12" < 31"	F5
31" < 40"	G5	31" < 40"	G5.5
SIZE: 5'-0" DIAMETER			
8" < 12"	D7	8" < 12"	D7
12" < 31"	F5	12" < 31"	F5
31" < 40"	G5	31" < 40"	G5.5

SLAB AND WALL DESIGN TABLE NOTES

1. Size is the inside dimension of a structure.
2. Slab reinforcement is appropriate for top, intermediate, and bottom slabs.
3. Bottom slabs for precast 3'-0" x 3'-0" rectangular structures at 12" depth or less, may be 6" thick.
4. Slab depth is measured from finished grade to top of slab.
5. Wall depth is measured to the top of the bottom slab for boxes and to the top of the intermediate slab for risers.
6. Wall height is the distance between top of lower slab to bottom of upper slab. Maximum wall height is 12' for wall lengths exceeding 5', or 10' for wall lengths exceeding 12'.
7. Wall lengths exceeding 8'-0" require two layers of reinforcing (See Table 8) with 7" of cover from the horizontal bars to the inside and outside faces for each layer.
8. Wall lengths exceeding the dimensions or depths shown in Table 8, or 12'-0" diameter require a special design.
9. Wall thickness and reinforcing for rectangular structures is based on the longer wall length.
10. Reinforcing schedules with larger areas of steel may be substituted for schedules with smaller bar or wire spacing, except that Schedule B10 may not be substituted for Schedule A6. See Index 425-001 for allowable bar spacing adjustments when larger areas of reinforcing are substituted.

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WALL DESIGNS - RECTANGULAR STRUCTURES (TABLE 8)

VERTICAL REINFORCING	HORIZONTAL REINFORCING	WALL THICKNESS		
WALL DEPTH	SCHEDULE	WALL DEPTH	SCHEDULE	WALL THICKNESS
SIZE: 3'-0" & RISERS				
8" < 12"	A12	8" < 12"	B10	6"/8"
12" < 24"	D7	12" < 24"	D7	6"/8"
24" < 40"	F5	24" < 40"	F5	6"/8"
SIZE: 4'-0"				
8" < 12"	A12	8" < 12"	B10	6"/8"
12" < 24"	D7	12" < 24"	D7	6"/8"
24" < 40"	F5	24" < 40"	F5	6"/8"
SIZE: 5'-0"				
8" < 12"	A12	8" < 12"	B10	6"/8"
12" < 24"	D7	12" < 24"	D7	6"/8"
24" < 40"	F5	24" < 40"	F5	6"/8"

REINFORCING SCHEDULE

SCHEDULE	GRADE 60 AREA (in./ft.)	60 KSI GRADE 60 BARS (in.)	MAXIMUM SPACING	WWR EQUIV. AREA* (in.)	70 KSI (in.)
A12	0.20	12	8"	8"	8"
A6	0.20	6	5"	5"	5"
B10	0.24	10	8"	7 1/2"	7 1/2"
B5.5	0.24	5 1/2	5"	4"	4"
C6.5	0.37	6 1/2	6"	5"	5"
C3.5	0.37	3 1/2	3"	3 1/2"	3 1/2"
D7	0.53	7	6"	5"	5"
D4.5	0.53	4 1/2	4"	3 1/2"	3 1/2"
E5	0.73	5	4"	4"	4"
F5	1.06	5	4"	4"	4"
F3.5	1.06	3 1/2	3"	3"	3"
G5	1.45	5	4"	4"	4"
G3.5	1.45	3 1/2	3"	3"	3"
H4	1.75	4	3"	3"	3"

*Equivalent Area Welded Wire Reinforcing may be substituted in accordance with Index 425-001.

WALL REINFORCING SPlice DETAILS (ALTERNATE B)

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HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 1)

WALL DEPTH	SCHEDULE	AREA (in./ft.)	MAX. SPACING
0'-15"	A12	0.20	12"
0'-10"	A6	0.20	6"
10'-13"	A4	0.20	4"
10'-10"	B5.5	0.24	5 1/2"
10'-10"	B5.5	0.24	5 1/2"

HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 2)

WALL DEPTH	SCHEDULE	AREA (in./ft.)	MAX. SPACING
0'-8"	A12	0.20	12"
0'-7.5"	A6	0.20	6"
7.5'-10"	B5.5	0.24	5 1/2"
10'-10"	B5.5	0.24	5 1/2"

HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 3)

WALL DEPTH	SCHEDULE	AREA (in./ft.)	MAX. SPACING
0'-5"	A12	0.20	12"
0'-7.5"	A6	0.20	6"
7.5'-10"	B5.5	0.24	5 1/2"
10'-10"	B5.5	0.24	5 1/2"

HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 4)

WALL DEPTH	SCHEDULE	AREA (in./ft.)	MAX. SPACING
0'-5"	B5.5	0.24	5 1/2"
5'-7"	C6.5	0.37	6 1/2"
7'-10"	D4.5	0.53	4 1/2"

HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 5)

WALL DEPTH	SCHEDULE	AREA (in./ft.)	MAX. SPACING
0'-5"	C3.5	0.37	3 1/2"
5'-10"	D4.5	0.53	4 1/2"

GENERAL NOTES

Recommended Maximum Pipe Size:
 2'-0" Wall - 18" Pipe
 3'-0" Wall - 24" Pipe (18" where an 18" pipe enters a 2'-0" wall)
 4# Bars @ 12" Ctrs.

Recommended Maximum Pipe Size:
 3'-0" Wall - 24" Pipe
 4# Bars @ 10" Ctrs. (Short Bars)

Recommended Maximum Pipe Size:
 3'-0" Wall - 24" Pipe
 4# Bars @ 10" Ctrs. (Short Bars)

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HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 4)

WALL DEPTH	SCHEDULE	AREA (in./ft.)	MAX. SPACING
0'-5"	B5.5	0.24	5 1/2"
5'-7"	C6.5	0.37	6 1/2"
7'-10"	D4.5	0.53	4 1/2"

HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 5)

WALL DEPTH	SCHEDULE	AREA (in./ft.)	MAX. SPACING
0'-5"	C3.5	0.37	3 1/2"
5'-10"	D4.5	0.53	4 1/2"

GENERAL NOTES

Recommended Maximum Pipe Size:
 3'-0" Wall - 24" Pipe
 4# Bars @ 10" Ctrs. (Short Bars)
 6# Bars @ 12" Ctrs. (Short Bars)
 Or 2'-0" Pipe (5'-3"-5")

Recommended Maximum Pipe Size:
 3'-0" Wall - 24" Pipe
 4# Bars @ 10" Ctrs. (Short Bars)
 Or 2'-0" Pipe (5'-3"-5")

LAST REVISION	DESCRIPTION:	FY 2020-21	INDEX	SHEET
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BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927

449 W. MAIN ST., PENSACOLA, FL 32502 (850)438-9661
 ENGINEERING BUSINESS - TALLAHASSEE - MOBILE

Penacola - Panama City Beach - Tallahassee - Mobile

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CHERRY STREET DRAINAGE IMPROVEMENTS (JAN DR TO ROGERS POND)

PROJECT NO: 27651.01
 DESIGNED BY: MDL
 DRAWN BY: RGC
 CHK'D BY: MDL
 PROJ. MGR: JCP
 DATE: MAR 2022

REVISION/ACTION TAKEN

NO.	DATE	APPR.	REVISION/ACTION TAKEN

FDOT DETAILS

C-903

PLAN - SINGLE PIPE

PLAN - MULTIPLE PIPE

ELEVATION

SECTION B-B (Pipe/Slab Filler)

DETAIL "B"

NOTE: See Table 2 on Sheet 5 for Dimensions and Quantities.

LAST REVISION	DESCRIPTION:	INDEX	SHEET
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TABLE 2

SINGLE AND MULTIPLE CORRUGATED METAL PIPE DIMENSIONS AND QUANTITIES

Dia. D	Rise R	Span S	X	A	B	C	E	F	G	H	36" CONC. SLAB (CY)				30" CONC. SLAB (CY)				SODDING (CY)						
											Single	Double	Triple	Quad.	Single	Double	Triple	Quad.	Single	Double	Triple	Quad.			
15"	2'-0"	2'-0"	1.69	4.18	1.5	5.0	1.22	3.3	4.83	6.82	8.50	12.00	1.04	0.85	0.69	0.54	0.82	0.65	0.51	0.38	0.55	0.43	0.31	0.23	0.17

NOTE: See Table 2 on Sheet 5 for Dimensions and Quantities.

LAST REVISION	DESCRIPTION:	INDEX	SHEET
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TONGUE AND GROOVE CONNECTOR DETAIL

BELL AND SPIGOT CONNECTOR DETAIL

STEEL BAR

CONCRETE PIPE CONNECTION DETAIL (DETAIL "C")

CORRUGATED METAL PIPE (CMP) ANCHOR DETAIL (DETAIL "D")

NOTES:

1. Anchors required for CMP only.
2. Use galvanized steel for all anchors, nuts, and washers.
3. Bond anchor where required to center in concrete slab.
4. Repair damaged surfaces after bonding.
5. Space anchors a distance equal to four (4) corrugations.
6. Place the anchors in the outside crest of corrugation.
7. Place flat washers on inside wall of pipe.
8. Drill or punch holes in the mitered end pipe; burning not permitted.
9. A 6" x 1/2" bolt substitution is permitted.

Bolt Dia.	Pipe Dia.
3/4"	15" to 30"
1/2"	42" to 72"

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GENERAL NOTES:

1. Use Class I concrete.
2. Reinforcing steel is either Grade 40 or 60.
3. Endwalls may be cast in place or precast concrete. (Additional reinforcement necessary for handling precast units will be determined by the Contractor or the supplier.)
4. Chamfer all exposed edges and corners to 1/4".
5. Endwall dimensions, locations and positions are for round and elliptical concrete pipe and for round and pipe-arch corrugated metal pipe. Round concrete pipe shown.
6. On outfall ditches with side slopes flatter than 1:1.5 provide 20' transitions from the endwall to the flatter side slopes, right of way permitting.
7. Construct front slope and ditch transitions in accordance with Index 430-001.
8. Quantities shown are for estimating purposes only.

TABLE OF CONTENTS:

Sheet	Description
1	General Notes and Contents
2	Concrete Endwall Details
3	Concrete and Metal Pipe Tables
4	Spacing For Multiple Pipes

STRAIGHT CONCRETE ENDWALL

LAST REVISION	DESCRIPTION:	INDEX	SHEET
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BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927

449 W. MAIN ST., PENSACOLA, FL 32502 (850)438-9961
ENGINEERING BUSINESS: EB-0000040

Pensacola - Panama City Beach - Tallahassee - Mobile

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CHERRY STREET DRAINAGE IMPROVEMENTS (JAN DR TO ROGERS POND)

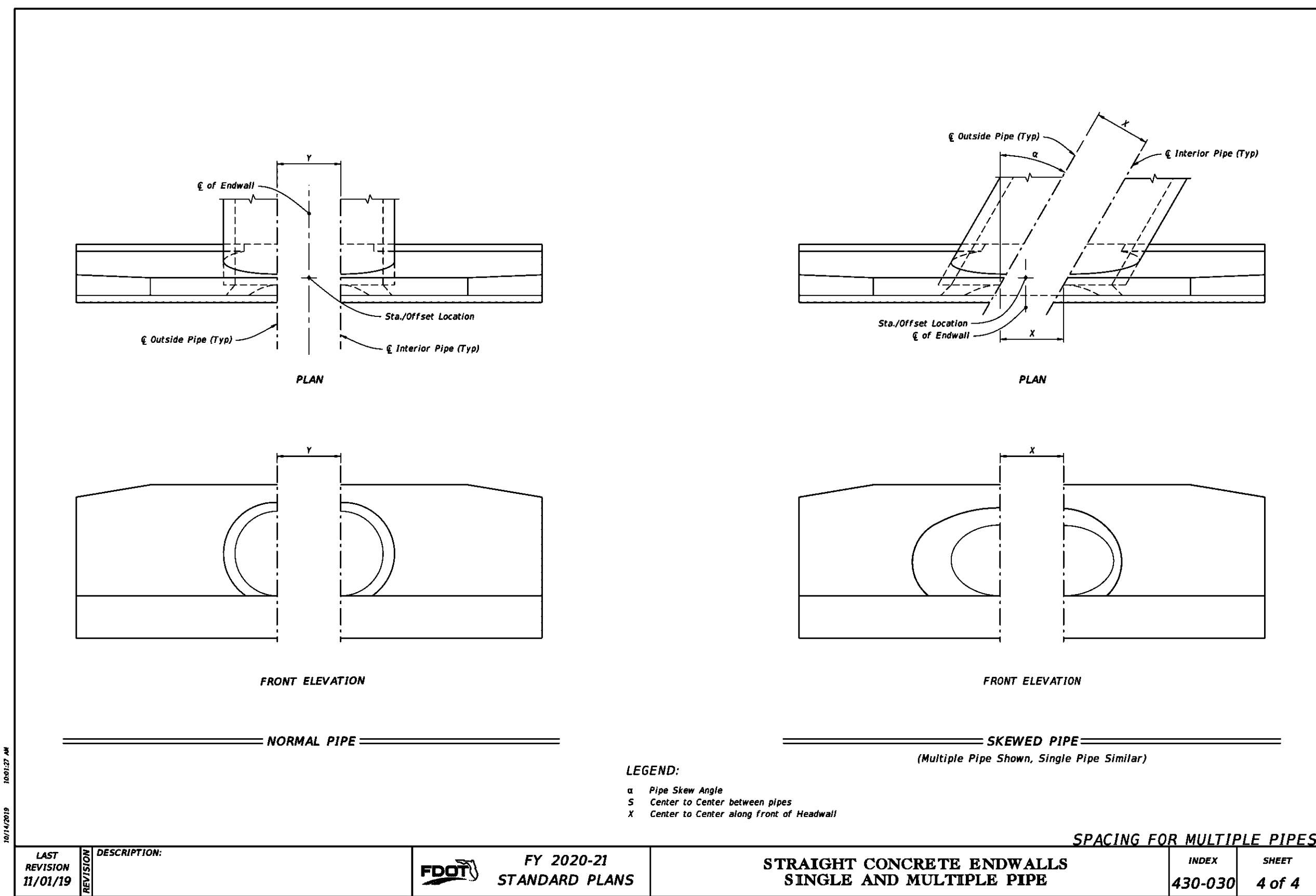
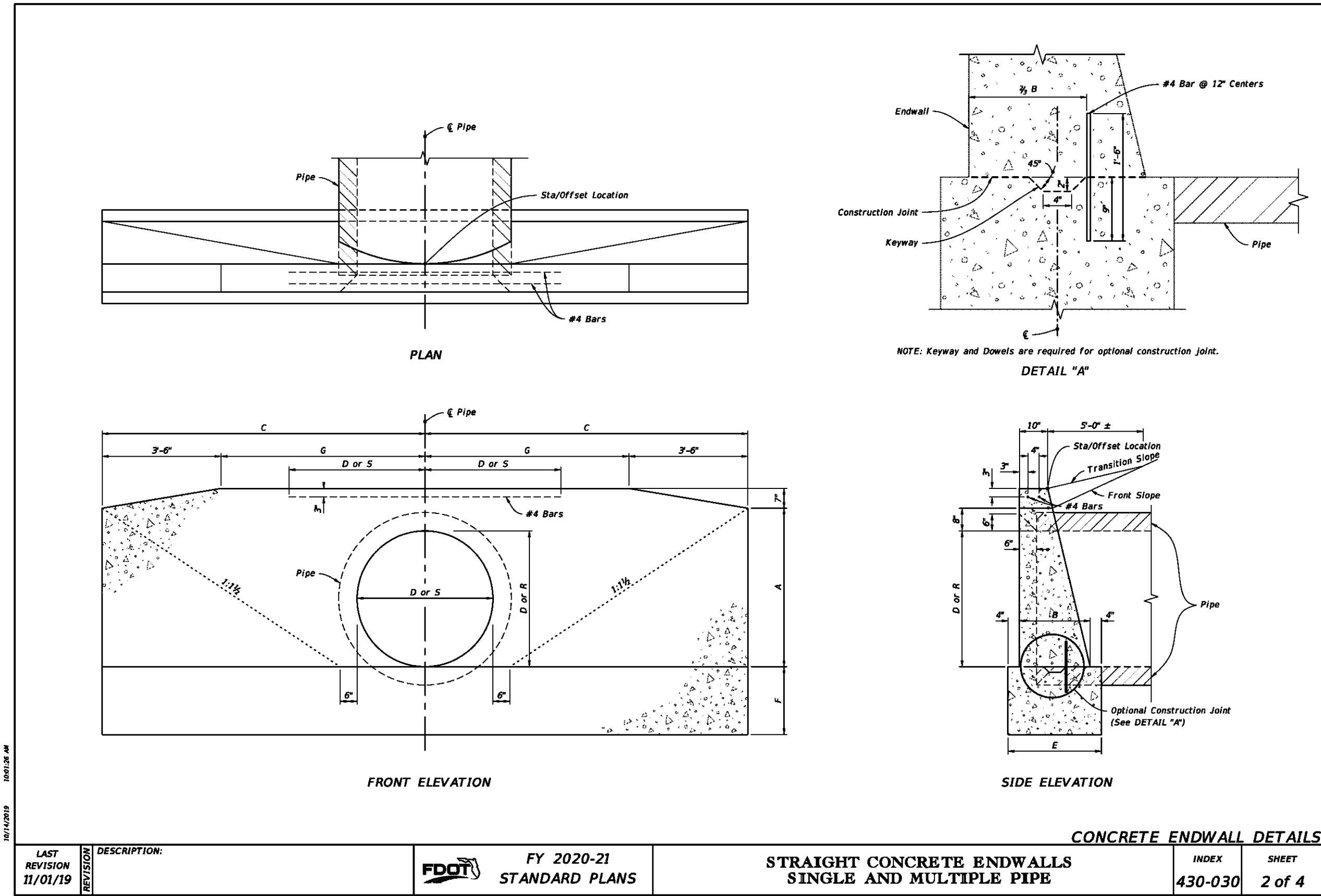
PROJECT NO:	27651.01
DESIGNED BY:	MIL
DRAWN BY:	ROG
CHK'D BY:	MIL
PROJ. MGR:	JCP
DATE:	MAR 2022

NO.	DATE	APPR.	REVISION/ACTION TAKEN

NOT RELEASED FOR CONSTRUCTION BY _____ DATE _____

FDOT DETAILS

C-906



ROUND CONCRETE AND CORRUGATED METAL PIPE

Pipe Dia. D	Opening Area (SF)		Dimensions													Class I Concrete (CY)												Pipe Dia. D
	Number Of Pipes		Number Of Pipe And Skew Angle Of Pipe (s)													Number Of Pipe And Skew Angle Of Pipe (s)												
	A	B	A	B	C	E	F	G	Y	u	15°	30°	45°	60°	75°	90°	15°	30°	45°	60°	75°	90°						
18"	1.93	2.66	3.69	4.92	11-11"	1-2"	2-2"	3-2"	4-2"	5-2"	6-2"	7-2"	8-2"	9-2"	10-2"	11-2"	12-2"	13-2"	14-2"	15-2"	16-2"	17-2"	18-2"	19"				
24"	3.14	6.38	9.42	12.56	2-4"	3-4"	4-4"	5-4"	6-4"	7-4"	8-4"	9-4"	10-4"	11-4"	12-4"	13-4"	14-4"	15-4"	16-4"	17-4"	18-4"	19-4"	20"	24"				
30"	3.98	7.96	11.94	15.92	2-11"	3-11"	4-11"	5-11"	6-11"	7-11"	8-11"	9-11"	10-11"	11-11"	12-11"	13-11"	14-11"	15-11"	16-11"	17-11"	18-11"	19-11"	20"	30"				
36"	4.91	9.82	14.73	19.64	3-4"	4-4"	5-4"	6-4"	7-4"	8-4"	9-4"	10-4"	11-4"	12-4"	13-4"	14-4"	15-4"	16-4"	17-4"	18-4"	19-4"	20"	21"	36"				
42"	5.84	11.68	17.52	23.36	4-4"	5-4"	6-4"	7-4"	8-4"	9-4"	10-4"	11-4"	12-4"	13-4"	14-4"	15-4"	16-4"	17-4"	18-4"	19-4"	20"	21"	22"	42"				
48"	6.77	13.54	20.31	27.08	5-4"	6-4"	7-4"	8-4"	9-4"	10-4"	11-4"	12-4"	13-4"	14-4"	15-4"	16-4"	17-4"	18-4"	19-4"	20"	21"	22"	23"	48"				
54"	7.70	15.40	23.10	30.80	6-4"	7-4"	8-4"	9-4"	10-4"	11-4"	12-4"	13-4"	14-4"	15-4"	16-4"	17-4"	18-4"	19-4"	20"	21"	22"	23"	24"	54"				
60"	8.63	17.26	25.89	34.52	7-4"	8-4"	9-4"	10-4"	11-4"	12-4"	13-4"	14-4"	15-4"	16-4"	17-4"	18-4"	19-4"	20"	21"	22"	23"	24"	25"	60"				
66"	9.56	19.12	28.68	38.24	8-4"	9-4"	10-4"	11-4"	12-4"	13-4"	14-4"	15-4"	16-4"	17-4"	18-4"	19-4"	20"	21"	22"	23"	24"	25"	26"	66"				
72"	10.49	20.98	31.47	41.96	9-4"	10-4"	11-4"	12-4"	13-4"	14-4"	15-4"	16-4"	17-4"	18-4"	19-4"	20"	21"	22"	23"	24"	25"	26"	27"	72"				
78"	11.42	22.84	34.26	45.68	10-4"	11-4"	12-4"	13-4"	14-4"	15-4"	16-4"	17-4"	18-4"	19-4"	20"	21"	22"	23"	24"	25"	26"	27"	28"	78"				
84"	12.35	24.70	37.05	49.40	11-4"	12-4"	13-4"	14-4"	15-4"	16-4"	17-4"	18-4"	19-4"	20"	21"	22"	23"	24"	25"	26"	27"	28"	29"	84"				
90"	13.28	26.56	39.84	53.12	12-4"	13-4"	14-4"	15-4"	16-4"	17-4"	18-4"	19-4"	20"	21"	22"	23"	24"	25"	26"	27"	28"	29"	30"	90"				
96"	14.21	28.42	42.63	56.84	13-4"	14-4"	15-4"	16-4"	17-4"	18-4"	19-4"	20"	21"	22"	23"	24"	25"	26"	27"	28"	29"	30"	31"	96"				
102"	15.14	30.28	45.42	60.56	14-4"	15-4"	16-4"	17-4"	18-4"	19-4"	20"	21"	22"	23"	24"	25"	26"	27"	28"	29"	30"	31"	32"	102"				
108"	16.07	32.14	48.21	64.28	15-4"	16-4"	17-4"	18-4"	19-4"	20"	21"	22"	23"	24"	25"	26"	27"	28"	29"	30"	31"	32"	33"	108"				
114"	17.00	34.00	51.00	68.00	16-4"	17-4"	18-4"	19-4"	20"	21"	22"	23"	24"	25"	26"	27"	28"	29"	30"	31"	32"	33"	34"	114"				
120"	17.93	35.86	53.79	71.72	17-4"	18-4"	19-4"	20"	21"	22"	23"	24"	25"	26"	27"	28"	29"	30"	31"	32"	33"	34"	35"	120"				
126"	18.86	37.72	56.58	75.44	18-4"	19-4"	20"	21"	22"	23"	24"	25"	26"	27"	28"	29"	30"	31"	32"	33"	34"	35"	36"	126"				
132"	19.79	39.58	59.37	79.16	19-4"	20"	21"	22"	23"	24"	25"	26"	27"	28"	29"	30"	31"	32"	33"	34"	35"	36"	37"	132"				
138"	20.72	41.44	62.16	82.88	20-4"	21"	22"	23"	24"	25"	26"	27"	28"	29"	30"	31"	32"	33"	34"	35"	36"	37"	38"	138"				
144"	21.65	43.30	64.95	86.60	21-4"	22"	23"	24"	25"	26"	27"	28"	29"	30"	31"	32"	33"	34"	35"	36"	37"	38"	39"	144"				
150"	22.58	45.16	67.74	90.32	22-4"	23"	24"	25"	26"	27"	28"	29"	30"	31"	32"	33"	34"	35"	36"	37"	38"	39"	40"	150"				
156"	23.51	47.02	70.53	94.04	23-4"	24"	25"	26"	27"	28"	29"	30"	31"	32"	33"	34"	35"	36"	37"	38"	39"	40"	41"	156"				
162"	24.44	48.88	73.32	97.76	24-4"	25"	26"	27"	28"	29"	30"	31"	32"	33"	34"	35"	36"	37"	38"	39"	40"	41"	42"	162"				
168"	25.37	50.74	76.11	101.48	25-4"	26"	27"	28"	29"	30"	31"	32"	33"	34"	35"	36"	37"	38"	39"	40"	41"	42"	43"	168"				
174"	26.30	52.60	78.90	105.20	26-4"	27"	28"	29"	30"	31"	32"	33"	34"	35"	36"	37"	38"	39"	40"	41"	42"	43"	44"	174"				
180"	27.23	54.46	81.69	108.92	27-4"	28"	29"	30"	31"	32"	33"	34"	35"	36"	37"	38"	39"	40"	41"	42"	43"	44"	45"	180"				
186"	28.16	56.32	84.48	112.64	28-4"	29"	30"	31"	32"	33"	34"	35"	36"	37"	38"	39"	40"	41"	42"	43"	44"	45"	46"	186"				
192"	29.09	58.18	87.27	116.36	29-4"	30"	31"	32"	33"	34"	35"	36"	37"	38"	39"	40"	41"	42"	43"	44"	45"	46"	47"	192"				
198"	30.02	60.04	90.06	120.08	30-4"	31"	32"	33"	34"	35"	36"	37"	38"	39"	40"	41"	42"	43"	44"	45"	46"	47"	48"	198"				
204"	30.95	61.90	92.85	123.80	31-4"	32"	33"	34"	35"	36"	37"	38"	39"	40"	41"	42"	43"	44"	45"	46"	47"	48"	49"	204"				
210"	31.88	63.76	95.64	127.52	32-4"	33"	34"	35"	36"	37"	38"	39"	40"	41"	42"	43"	44"	45"	46"	47"	48"	49"	50"	210"				
216"	32.81	65.62	98.43	131.24	33-4"	34"	35"	36"	37"	38"	39"	40"	41"	42"	43"	44"	45"	46"	47"	48"	49"	50"	51"	216"				
222"	33.74	67.48	101.22	134.96	34-4"	35"	36"	37"	38"	39"	40"	41"	42"	43"	44"	45"	46"	47"	48"	49"	50"	51"	52"	222"				
228"	34.67	69.34	104.01	138.68	35-4"	36"	37"	38"	39"	40"	41"	42"	43"	44"	45"	46"	47"	48"	49"	50"	51"	52"	53"	228"				
234"	35.60	71.20	106.80	142.40	36-4"	37"	38"	39"	40"	41"	42"	43"	44"	45"	46"	47"	48"	49"	50"	51"	52"	53"	54"	234"				
240"	36.53	73.06	109.59	146.12	37-4"	38"	39"	40"	41"	42"	43"	44"	45"	46"	47"	48"	49"	50"	51"	52"	53"	54"	55"	240"				
246"	37.46	74.92	112.38	149.84	38-4"	39"	40"	41"	42"	43"	44"	45"	46"	47"	48"	49"	50"	51"	52"	53"	54"	55"	56"	246"				
252"	38.39	76.78	115.17	153.56	39-4"	40"	41"	42"	43"	44"	45"	46"	47"	48"	49"	50"	51"	52"	53"	54"	55"	56"	57"	252"				
258"	39.32	78.64	117.96	157.28	40-4"	41"	42"	43"	44"	45"	46"	47"	48"	49"	50"	51"	52"	53"	54"	55"	56"	57"	58"	258"				
264"	40.25	80.50	120.75	161.00	41-4"	42"	43"	44"	45"	46"	47"	48"	49"	50"	51"	52"	53"	54"	55"	56"	57"	58"	59"	264"				
270"	41.18	82.36	123.54	164.72	42-4"	43"	44"	45"	46"	47"	48"	49"	50"	51"	52"	53"	54"	55"	56"	57"	58"	59"	60"	270"				
276"	42.11	84.22	126.33	168.44	43-4"	44"	45"	46"	47"	48"	49"	50"	51"	52"	53"	54"	55"	56"	57"	58"	59"	60"	61"	276"				
282"	43.04	86.08	129.12	172.16	44-4"	45"	46"	47"	48"	49"	50"	51"	52"	53"	54"	55"	56"	57"	58"	59"	60"	61"	62"	282"				
288"	43.97	87.94	131.91	175.88	45-4"	46"	47"	48"	49"	50"	51"	52"	53"	54"	55"	56"	57"	58"	59"	60"	61"	62"	63"	288"				
294"	44.90	89.80	134.70	179.60	46-4"	47"	48"	49"	50"	51"	52"	53"	54"	55"	56"	57"	58"	59"	60"	61"	62"	63"	64"	294"				
300"	45.83	91.66	137.49	183.32	47-4"	48"	49"	50"	51"	52"	53"	54"	55"	56"	57"	58"	59"	60"	61"	62"	63"	64"	65"	300"				
306"	46.76	93.52	140.28	187.04	48-4"	49"	50"	51"	52"	53"	54"	55"	56"	57"	58"	59"	60"	61"	62"	63"	64"	65"	66"	306"				
312"	47.69	95.38	143.07	190.76	49-4"	50"	51"	52"	53"	54"	55"	56"	57"	58"	59"	60"	61"	62"	63"	64"	65"	66"	67"	312"				
318"	48.62	97.24	145.86	194.48	50-4"	51"	52"	53"	54"	55"	56"	57"	58"	59"	60"	61"	62"	63"	64"	65"	66"	67"	68"	318"				
324"	49.55	99.10	148.65	198.20	51-4"	52"	53"	54"	55"	56"	57"	58"	59"	60"	61"	62"	63"	64"	65"	66"	67"	68"	69"	324"				
330"	50.48	100.96	151.44	201.92	52-4"	53"	54"	55"	56"	57"	58"	59"	60"	61"	62"	63"	64"	65"	66"	67"	68"	69"	70"	330"				
336"	51.41	102.82	154.23	205.64	53-4"	54"	55"	56"	57"	58"	59"	60"	61"	62"	63"	64"	65"	66"	67"	68"	69"	70"	71"	336"				
342"	52.34	104.68	157.02	209.36	54-4"	55"	56"	57"	58"	59"	60"	61"	62"	63"	64"	65"	66"	67"	68"	69"	70"	71"	72"	342"				
348"	53.27	106.54	159.81	213.08	55-4"	56"	57"</																					