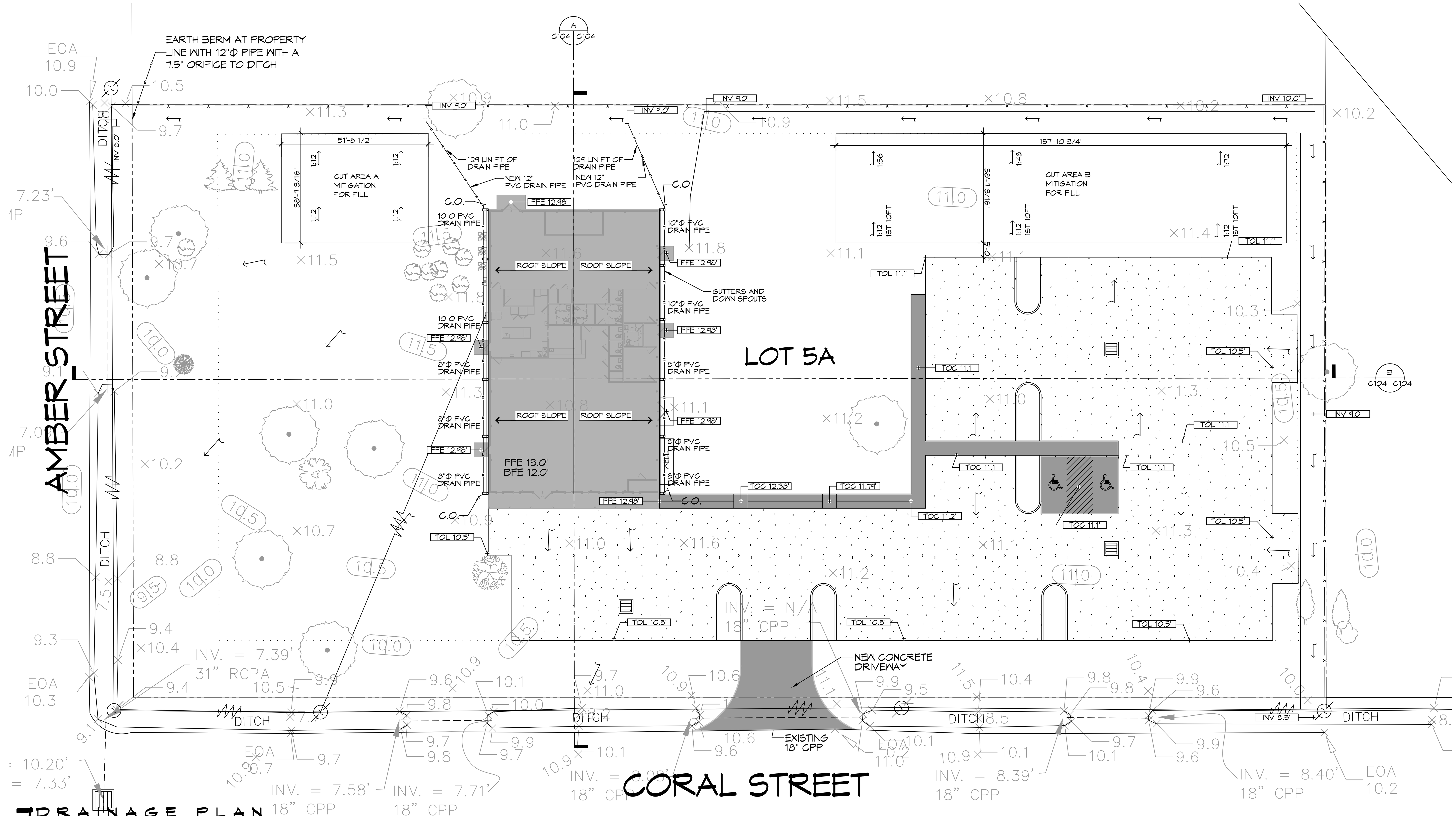
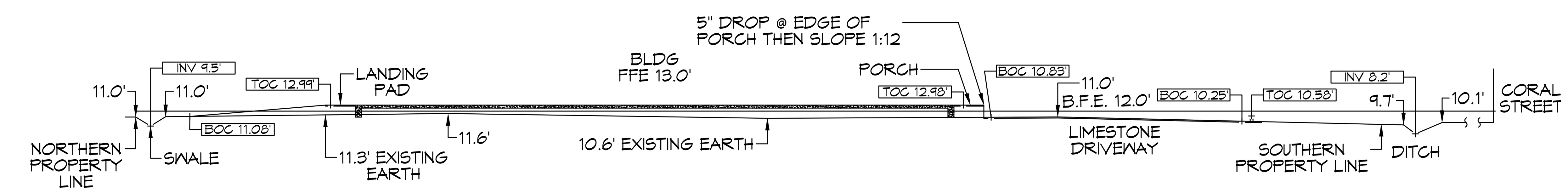
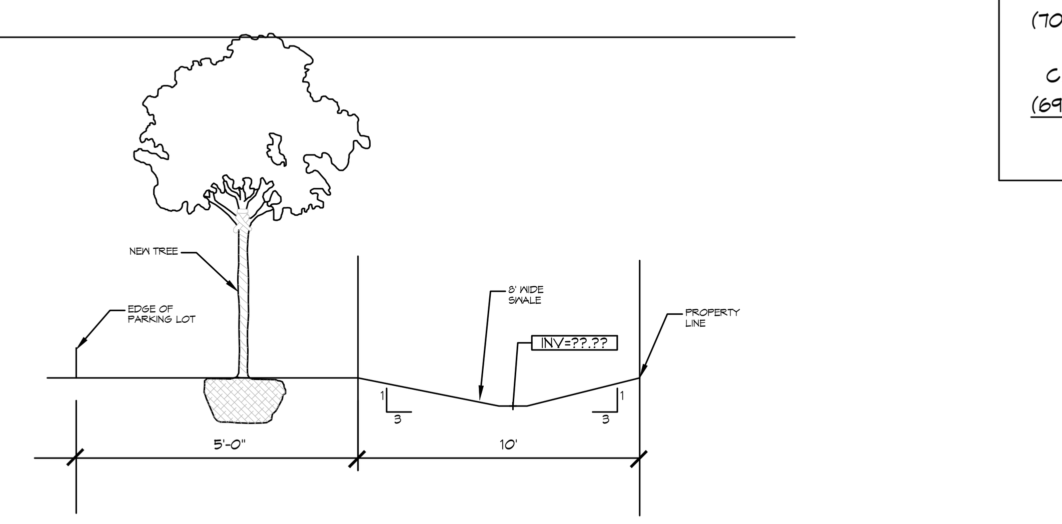


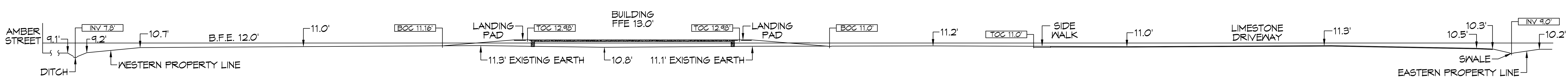
DRAINAGE PLAN
SCALE: 1" = 20'-0"



A C104 C104 CROSS SECTION
SCALE: 1/16" = 1'-0"



SWALE AND PLANTABLE AREA
SCALE: N.T.S.



B C104 C104 CROSS SECTION
SCALE: 1/16" = 1'-0"

DRAINAGE NOTES

1. DRAIN PIPE AND FITTINGS WITHIN PROPERTY LINE SHALL BE POLYVINYL CHLORIDE PLASTIC PIPE, MEETING CLASS 100 C-900 PVC.
2. ELEVATIONS SHOWN ARE MSL.
3. FIELD VERIFY ALL ELEVATIONS AND AND DRAINAGE SYSTEM PLACEMENT PRIOR TO START OF WORK.
4. PROVIDE VERTICAL ELBOW AT DOWNSPOUTS FOR CONNECTION TO SUBSURFACE DRAINAGE WHERE INDICATED. ELBOW ID SHALL BE SIZED SUCH THAT THE DOWNSPOUT CAN BE INSERTED INTO THE PIPE OPENING WITHOUT DEFORMATION TO THE DOWNSPOUT.

DRAINAGE LEGEND

- TOL XXX.X' — TOP OF LIMSTONE ELEVATION
- TOC XXX.X' — TOP OF CONCRETE ELEVATION
- INV XXX.X' — INVERT OF PIPE ELEVATION
- IS — SUB-SURFACE DRAINAGE PVC WITH DIRECTION OF FLOW ARROW, SEE PLAN FOR SIZE OF PVC
- DS — SUB-SURFACE DRAINAGE PVC AT BUILDING WITH DOWN SPOUTS (DS) FROM ROOF GUTTERS

CUT/FILL CALCULATIONS

1. BFE = 12.0'. ALL CALCULATIONS WERE BASED ON EXISTING ELEVATIONS UP TO BFE.
2. FILL CALCS:

SECTION A :
(15.51 s.f. x10ft Rear Landing Pad) +
(5.18 s.f. x 60 ft Front Porch) +
(12.3 X 60 ft Front Porch Slope to Parking) = 1,204 cu ft

Additional fill for sidewalk to ADA parking. 5.18 s.f. x 57 ft = 295 cu ft

SECTION B :
(67.46 s.f. x 100 ft Building Pad) +
(19.43 s.f. x 35 ft (Landing Pads)) = 7,426 cu ft

PARKING AREA:
22 s.f. x .5 ft x 6 PLANTING AREAS = 66 cu ft

VOLUME TO OFFSET DUE TO FILL = 8,991 cu ft.

3. VOLUME OF RAIN WATER DETENTION = 2,401 cu ft

TOTAL VOLUME TO ACCOUNT FOR = 11,392 cu ft

4. CUT CALCS

A. Cut calcs from swale excluding cut area's A & B
Avg existing elevation before :
(11.3 + 11.0 + 11.0 + 10.2) / 4 = 10.8 ft
Avg depth of new swale :
(9.0 + 8.0) / 2 = 8.5 ft
Using the avg existing elevation and avg depth the avg Cut area = 7.8 s.f.
Length of swale = 406 ft - 51.5 (Cut A) - 157.8 (Cut B) = 196.7 ft
Therefore 7.8 s.f. x 196.7 ft = 1,534 cu ft

B. CUT CALCS AREA A
(70.2 + 61.1 s.f.) / 2 = 65.6 s.f. x 51.5 ft = 3,378 cu ft

C. CUT CALCS AREA B
(69 + 48 + 32 s.f.) / 3 = 49.6 s.f. x 157.8 ft = 7,837 cu ft

TOTAL CUT AREA = 12,749 cu ft

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REVISIONS		
#	DESCRIPTION	DATE

SEAL:

NEW BUILDING
DREW MANUAL
40081 CAROL STREET
SLIDELL, LA 70416

JOB No:		DATE:	11-11-2021
DRAWN BY:	CKD	CHECKED BY:	BAM

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SHEET TITLE:
SITE DRAINAGE PLAN

DRAWING NUMBER:
C102

SHEET No: 4 of 12