

SOUTH LARGE PARKING LOT HAS HOWEVER BFE = 28.0 FT. (DIFF OF 1.23') THE CHURCH IS 4.894 5.F. WITH PORCH. THEREFORE NO MITIGATION REQUIRED.

CHURCH ELEVATION = 28.56FT. HOWEVER BFE = 28.0 FT. (DIFF OF 1.23') THE CHURCH IS 4.894 5.F. WITH PORCH. THEREFORE NO MITIGATION REQUIRED.

THE GROUND AROUND THE CHURCH ELEVATION = 28.06FT HOWEVER BFE = 28.0 FT. (DIFF OF 1.23') AND IT SLOPES FOR 15' TO NATURAL GRADE. THE PERIMETER OF THE CHURCH = 306'. THEREFORE NO MITIGATION REQUIRED.

THE NORTH PARKING LOT HAS THE SAME AVERAGE ELEVATION AS THE SITE. THEREFORE NO MITIGATION REQUIRED.

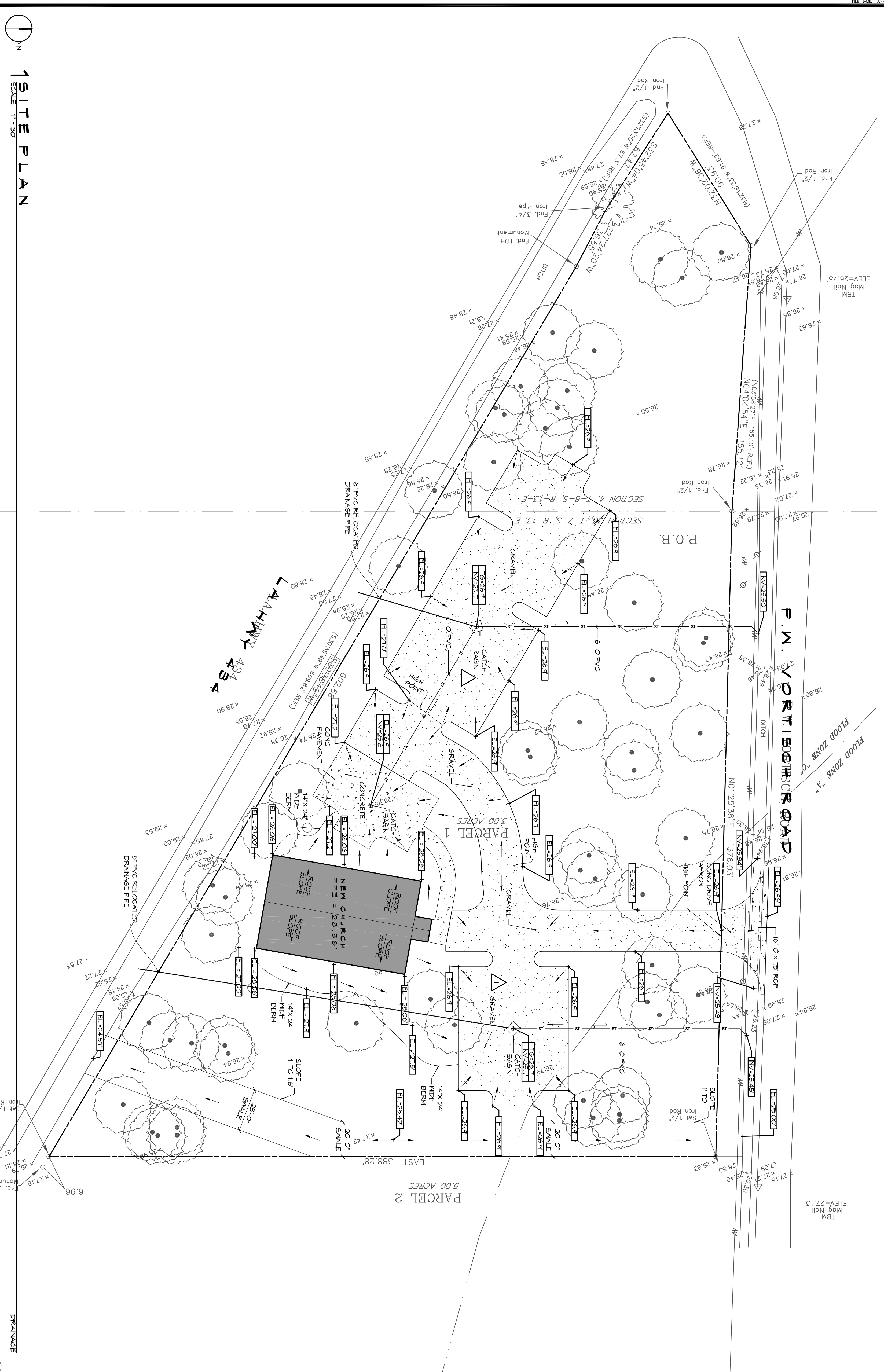
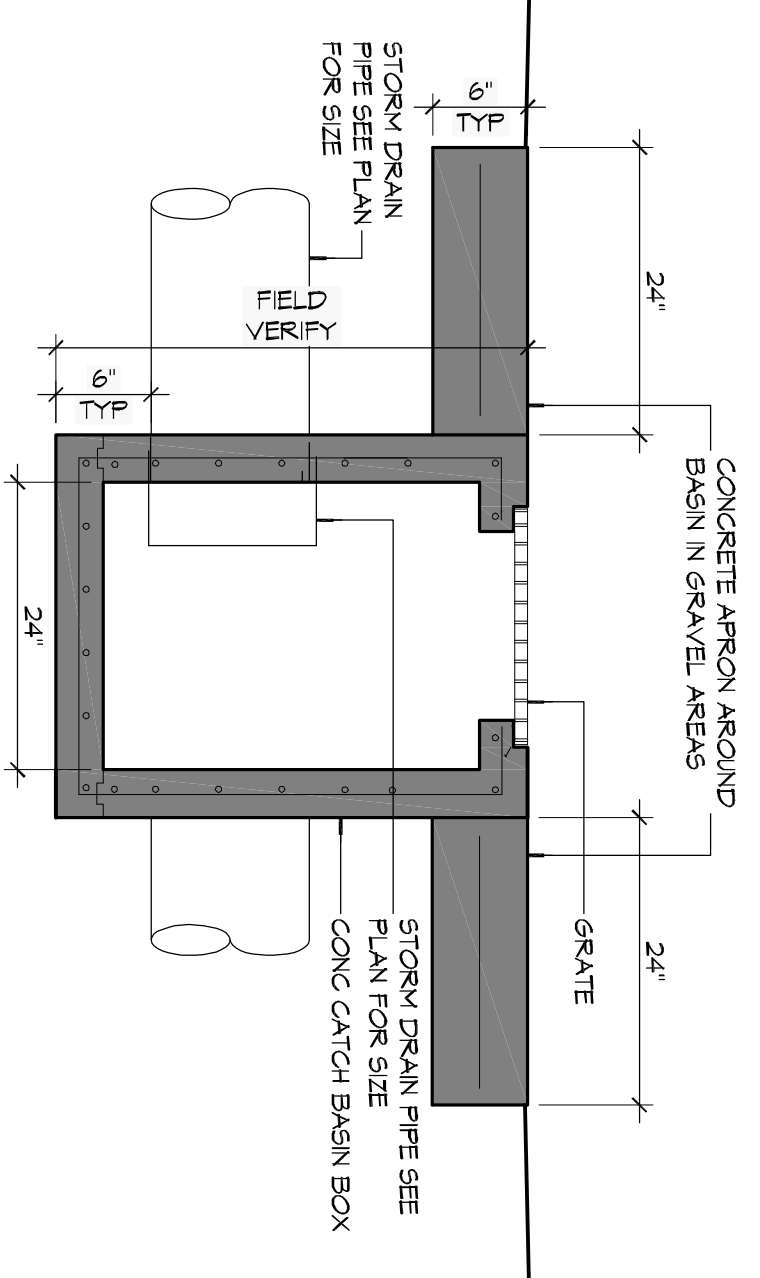
TOTAL DISPLACEMENT = (6.136 + 2.823) CU FT = 8.959 CU FT. DIVIDE THIS BY THE LENGTH OF HOLE AND AVE DEPTH OF THE HOLE = 4.135 CU FT.

3 DETAIL
SCALE: NTS

NO NET FILL CALCULATIONS

2 DETAIL
SCALE: NTS

TYPICAL CATCH BASIN

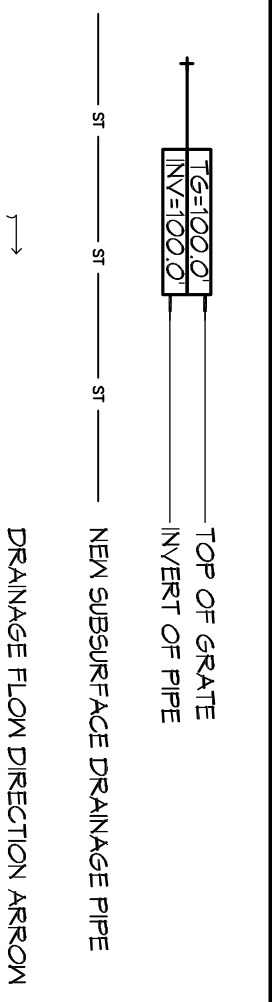


1 SITE PLAN
SCALE: 1" = 30'

GENERAL NOTES

- DRAIN PIPES ALONG ANCHORS MUST BE THE BELL AND SPIGOT TYPE WITH 1/2" RING RUBBER GASKETS. THE BELLS OF THE PIPES SHALL BE LAD (UPSTREAM). ALL JOINTS SHALL BE WEATHERED WITH GEOTEXTILE FABRIC. ALL PIPES SHALL REQUIRE A 3" COMPACTED SAND OR LIME/STONE BASE.
- REMOVE DEBRIS AND CLEAN BOTTOM OF DITCHES DOWN 6" IN DEPTH. AND TYPE ANY BROKEN/CRACKED PIPES OR VALVES WITH SAME SIZE AND TYPE. ANY BROKEN/CRACKED PIPES SHOULD BE POLYVINAL CHLORIDE PLASTIC PIPE (VENTING CLASS 100 COVER) P.V.C.
- ELEVATIONS SHOWN ARE M.S.L.
- FIELD VERIFY ALL ELEVATIONS AND DRAINAGE SYSTEM PLACEMENT FROM TO STAKE OF WORK.
- PROVIDE VERTICAL ALIGNMENT FOR CONNECTION TO EXISTING DRAINAGE SYSTEM. ELEVATION POINTS SHALL BE CHECKED SUCH THAT THE DOWNSPOUT CAN BE INSERTED INTO THE PIPE OPENING.

SITE DRAINAGE LEGEND



STORM WATER RUN-OFF CALCULATIONS

PROJECT: STORMWATER RUN-OFF CALCULATIONS
New Church

FORMULAS USED: [1] RATIONAL METHOD: Q=ACI

WHERE: Q = Peak discharge of watershed in cubic feet per second (CFS) due to runoff from a watershed.
A = Area of watershed in acres.
C = Coefficient of run-off (12).
I = Intensity of rainfall in inches per hour based on concentration time (13)

[4] TCs (11)(100 - 9)^{0.77}

WHERE: TC = Time of concentration (in minutes) required for rain falling at most remote point to reach discharge point in a stream or other water body.
S = Percent slope of overland flow.

PRIOR DEVELOPMENT

Q = ACI	Material	Surfaces	Run-off Coeff	Area	Run-off
0.04	Gravel	0.28	0.28	131647	3.023
0.15	Asphalt	0.15	0.15	131647	3.023
0.22	Concrete	0.22	0.22	131647	3.023

15% reduction = 1403 CFS

POST DEVELOPMENT

Q = ACI	Material	Surfaces	Run-off Coeff	Area	Run-off
0.04	Gravel	0.28	0.28	131647	3.023
0.15	Asphalt	0.15	0.15	131647	3.023
0.22	Concrete	0.22	0.22	131647	3.023

DEFINITION REQUIREMENTS

Retention requirement: (0-15%) 0.48 CFS

One hour Detention: 3488.8 CFS

DISCHARGE END AREA REQUIREMENTS

25 Year Flooded: 0.25 feet

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REVISIONS	DATE	DESCRIPTION
1	11-05-15	REVISED DRAINAGE

PRO MULTIS LACOMBE CHAPEL

PK VORTSCH ROAD AND LA HWY 434
LACOMBE, LOUISIANA 70448

JOB No: 2250 DATE: SEPTEMBER 3, 2015

DRAWN BY: KJK CHECKED BY: CKD

6102

SHEET TITLE: SITE PLAN - DRAINAGE

DRAWING NUMBER: 6102

SHEET No: 4 OF 14