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ARCHITECTURE
 ENGINEERING
 STUDIES
 PLANNING
 INVESTIGATION
 EXPERT WITNESS

NEW OFFICE BUILDING

KEN STARLING
 HWY 190
 SLIDELL, LA

DRAINAGE PLAN

REV: 4-23-08

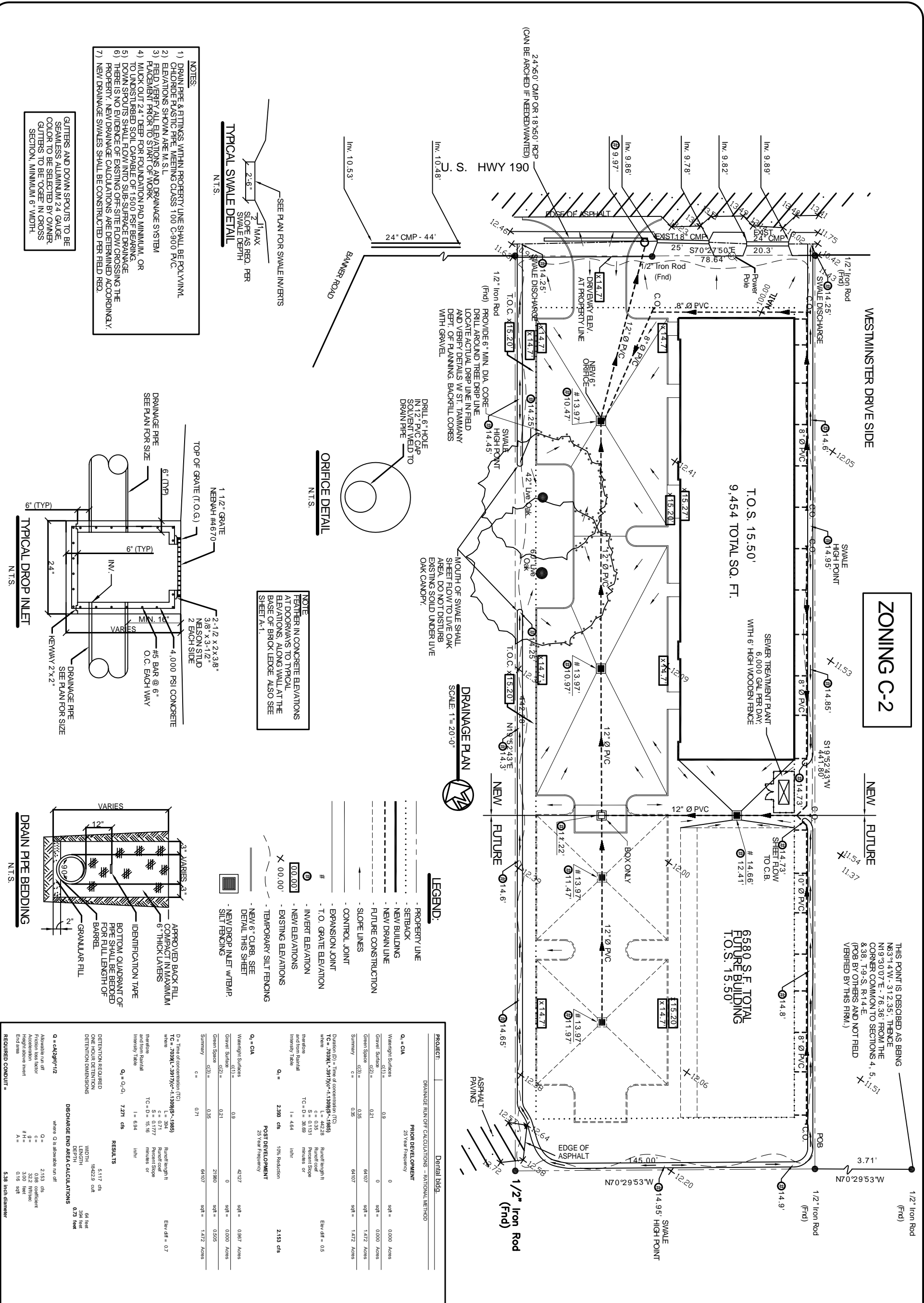
SCALE: AS NOTED

JOB#: 1901

DATE: 1-25-08

C-4

OF



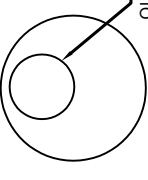
DRAINAGE PLAN
 SCALE: 1" = 20'-0"

LEGEND:

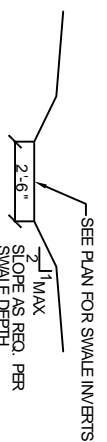
- PROPERTY LINE
- SETBACK
- NEW BUILDING
- NEW DRAIN LINE
- FUTURE CONSTRUCTION
- SLOPE LINES
- CONTROL JOINT
- EXPANSION JOINT
- T.O. GRATE ELEVATION
- INVERT ELEVATION
- NEW ELEVATIONS
- EXISTING ELEVATIONS
- TEMPORARY SILT FENCING
- NEW 6" CURB, SEE DETAIL THIS SHEET
- NEW DROP INLET W/TWMP SILT FENCING

NOTE:
 FEATHER IN CONCRETE ELEVATIONS AT DOORWAYS TO TYPICAL ELEVATIONS, ALONG WALL AT THE BASE OF BRICK LEDGE, ALSO SEE SHEET A-1

OFFICE DETAIL
 N.T.S.



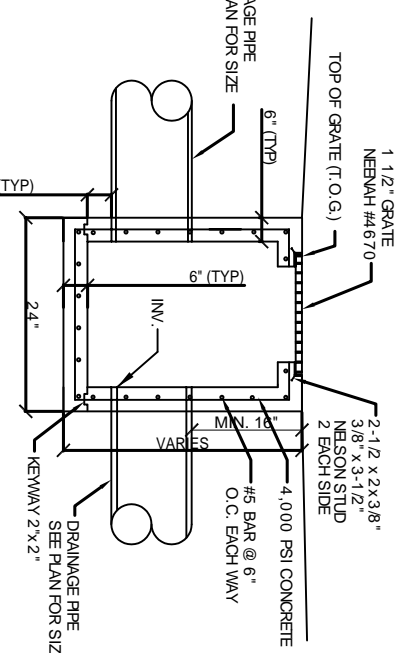
TYPICAL SWALE DETAIL
 N.T.S.



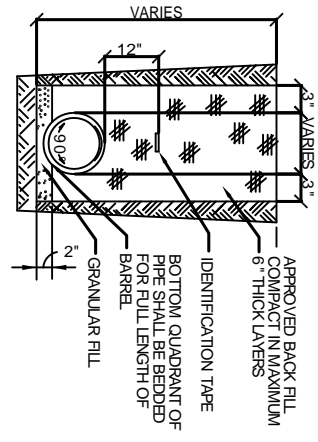
- NOTES:**
- 1) DRAIN PIPE & FITTINGS WITHIN PROPERTY LINE SHALL BE POLYVINYL CHLORIDE PLASTIC PIPE, MEETING CLASS 100 C-900 PVC.
 - 2) ELEVATIONS SHOWN ARE M.S.L.
 - 3) FIELD VERIFY ALL ELEVATIONS AND DRAINAGE SYSTEM PLACEMENT PRIOR TO START OF WORK.
 - 4) MUCK OUT 24" DEEP FOR FOUNDATION PAD MINIMUM, OR TO UNDISTURBED SOIL, CAPABLE OF 1500 PSF BEARING.
 - 5) DOWN SPOUTS SHALL FLOW INTO SUB-SURFACE DRAINAGE PROPERTY. NEW DRAINAGE CALCULATIONS ARE DETERMINED ACCORDINGLY.
 - 6) PROPERT, NEW DRAINAGE CALCULATIONS ARE DETERMINED ACCORDINGLY.
 - 7) NEW DRAINAGE SWALES SHALL BE CONSTRUCTED PER FIELD REQ.

GUTTERS AND DOWN SPOUTS TO BE SEAMLESS ALUMINUM 24 GAUGE. GUTTERS TO BE COEFF. IN CROSS SECTION, MINIMUM 6" WIDTH.

TYPICAL DROP INLET
 N.T.S.



DRAIN PIPE BEDDING
 N.T.S.



PROJECT: Denial bldg.

DRAINAGE RUN-OFF CALCULATIONS - RATIONAL METHOD
 PRIOR DEVELOPMENT
 25 Year Frequency

Watership Surface	Area (sq ft)	Runoff Coef.	Runoff (cfs)
Green Space	64107	0.21	0
Asphalt Paving	64107	0.35	1,472
Summary	128214	0.28	1,472

Duration (D) = Time of concentration (TC) where
 $TC = 0.000826 \cdot L^{0.7709} \cdot S^{-0.1031}$
 where
 L = 1.484
 S = 0.131
 TC = 38.69 min
 D = 0.644 hr

Q₁ = 2389 cfs 10% Reduction
POST DEVELOPMENT
 25 Year Frequency

Watership Surface	Area (sq ft)	Runoff Coef.	Runoff (cfs)
Green Space	64107	0.21	0
Asphalt Paving	64107	0.35	1,472
Summary	128214	0.28	1,472

Q₂ = 0.01 7.271 cfs
RESULTS

DEFLECTION REQUIRED ONE HOUR DETENTION
 LENGTH: 5.117 ds
 WIDTH: 18422.9 calt
 DEPTH: 0.73 feet

DECHARGE END AREA CALCULATIONS
 where Q = allowable runoff
 Q = 2.153 cfs
 G = 0.98 coefficient
 F# = 3.00 feet
 A = 0.16 sq ft
 5.38 inch diameter

REQUIRED CONDUIT =