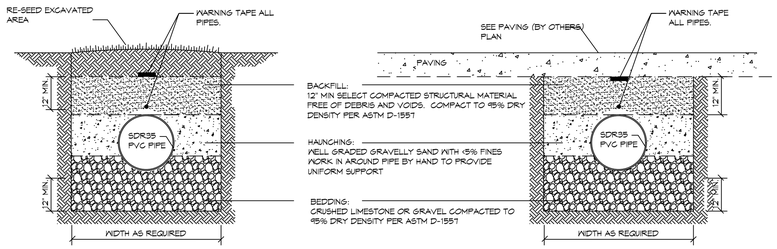


NOTE:
CONTRACTOR SHALL PROVIDE SHEETING AND BRACING TO CONTROL THE WIDTH OF EXCAVATED TRENCH AND TO SAFEGUARD THE INTEGRITY OF THE SEWER TRENCH. CONTRACTOR SHALL PROVIDE SUFFICIENT SHEETING AND BRACING TO PROVIDE SAFE WORKING CONDITIONS FOR HIS WORKMEN.

PIPE BEDDING IN SEEDED AREA (TYP)

PIPE BEDDING IN PAVING AREA (TYP)

PIPE BEDDING DETAIL

GRADING NOTES

1. GC SHALL REMOVE EXISTING NEAR SURFACE TOPSOIL WITH ORGANICS AND OTHER DELETERIOUS MATERIALS, APPROXIMATELY 6 INCHES, HOWEVER SINCE CONSTRUCTION OF THE EXISTING BUILDING MANY RUTS AND PONDING HAS OCCURED IN THE PAVING AREAS. THE EXPOSED SUBGRADE IN THE DRIVE LANES AND PARKING AREAS SHALL BE PROOF-ROLLED WITH A RUBBER TIRED VEHICLE WEIGHING ABOUT 20 TONS. PROOF-ROLLING SHALL BE MONITORED AND ANY SOILS WHICH ARE OBSERVED TO RUT OR DEFLECT EXCESSIVELY UNDER THE MOVING LOAD SHOULD BE UNDERCUT AND REPLACED WITH COMPACTED STRUCTURAL FILL.
2. THE STRUCTURAL FILL SHALL BE SELECT GRANULAR MATERIAL FREE OF ORGANIC OR OTHER DELETERIOUS MATERIALS WITH A LIQUID LIMIT LESS THAN 40 AND A PLASTICITY INDEX BETWEEN 10 & 18 PERCENT. FILL SHALL BE PLACED IN MAXIMUM LIFTS OF SIX (6) INCHES OF LOOSE MATERIAL, COMPACTED TO AT LEAST 95 PERCENT OF THE FILL'S MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698. IN-SITU TEST SHALL BE PERFORMED TO VERIFY MOISTURE CONTENT OF EACH LIFT. IF WATER MUST BE ADDED, IT SHALL BE UNIFORMLY APPLIED AND THOROUGHLY MIXED INTO THE SOIL BY DISKING OR SCARIFYING. IN-PLACE DENSITY MEASUREMENTS SHALL BE TAKEN TO ASSURE THAT THE ABOVE DEGREE OF COMPACTION IS ACHIEVED.
3. A MINIMUM OF 6" OF COMPACTED FILL MATERIAL SHALL BE PROVIDED FOR ALL PAVING.
4. PROVIDE AND MAINTAIN IMMEDIATE SITE DRAINAGE BEFORE, DURING, AND AFTER CONSTRUCTION. PROVIDE GRADING, SWELLS, AND SUMP PUMPS AS MAY BE REQUIRED TO IMMEDIATELY DRAIN ALL RAINWATER FROM THE CONSTRUCTION AREA. EXCAVATIONS SHOULD BE OBSERVED AND CONCRETE PLACED AS QUICKLY AS POSSIBLE TO AVOID EXPOSURE OF THE EXCAVATIONS BOTTOMS TO WETTING AND DRYING. SURFACE RUNOFF WATER SHOULD BE DRAINED AWAY FROM THE EXCAVATIONS AND NOT BE ALLOWED TO POND PRIOR OR AFTER CONCRETE PLACEMENT. IF IT IS REQUIRED THAT A EXCAVATION BE LEFT OPEN FOR MORE THAN ONE DAY, THEY SHOULD BE PROTECTED TO REDUCE EVAPORATION OR ENTRY OF MOISTURE.

GENERAL SITE DRAINAGE NOTES

1. CONTRACTOR SHALL COMPLY WITH THE STORMWATER POLLUTION PREVENTION PLAN.
2. ALL STORMWATER PIPING SHALL BE SDR 35 POLYVINYL CHLORIDE PLASTIC PIPE, MEETING ASTM D 3034. DRAIN PIPE(S) SHALL BE THE BELL AND SPIGOT TYPE WITH "O" RING RUBBER GASKETS. THE BELLS OF THE PIPES SHALL BE LAID UPSTREAM. ALL JOINTS SHALL BE WRAPPED WITH GEOTEXTILE FABRIC. ALL PIPES SHALL REQUIRE 12" COMPACTED SAND OR LIMESTONE BEDDING.
3. ELEVATIONS SHOWN ARE MSL.
4. FIELD VERIFY ALL ELEVATIONS AND DRAINAGE SYSTEM PLACEMENT PRIOR TO START OF WORK.
5. THE PERIMETER OF THE PROJECT PROPERTY SHALL BE GRADED SUCH THAT NO RUNOFF IS DISCHARGED TO ADJACENT LOT(S).
6. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION PRIOR TO PLACING EQUIPMENT, PERSONNEL OR STARTING WORK ON NEIGHBORING PROPERTIES.

UTILITY AND SITE DISCLAMER

1. THIS DRAWING IS NOT INTEENDED TO BE UTILIIZED AS A BOUNDARY SURVEY. IT HAS BEEN PROVIDED AS A COURTESY BASED ON CORNERS FOUND AND PROVIDED BY OWNER OR HIS REP.
2. UNDERGROUND UTILITIES MAY BE PRESENT ON THIS SITE WHICH MAY OR MAY NOT BE DEPICTED ON THIS PLAN. THIS MAP SHOULD NOT BE CONSIDERED DEFINITIVE AS TO LOCATION, NUMBER, TYPE, ETC. OF UTILITIES PRESENT ON THE SITE.
3. CONTRACTOR SHALL CONTACT LA ONE CALL PRIOR TO COMMENCEMENT. PRIVATE UTILITIES SHALL BE COORDINATED WITH OWNER OR THIRD PARTY LOCATION COMPANY.

SITE LEGEND

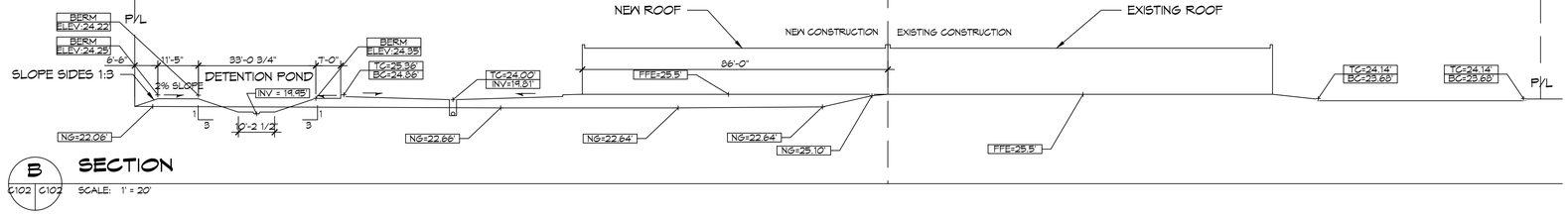
- CATCH BASIN
- 21.60' - EXISTING ELEVATIONS
- TC=100.0 / BC=100.0 — TOP OF CONCRETE OR TOP OF CURB / BOTTOM OF CURB
- TC=100.0 / INV=100.0 — TOP OF CATCH BASIN / INVERT OF CATCH BASIN
- STORMWATER PIPE
- ROOF DRAINAGE FLOW
- SURFACE DRAINAGE FLOW
- SUBSURFACE DRAINAGE FLOW

DRAINAGE ABBREVIATIONS

TC	TOP OF CATCH BASIN OR TOP OF CURB
BC	BOTTOM OF CURB
INV	INVERT
TOB	TOP OF BERM

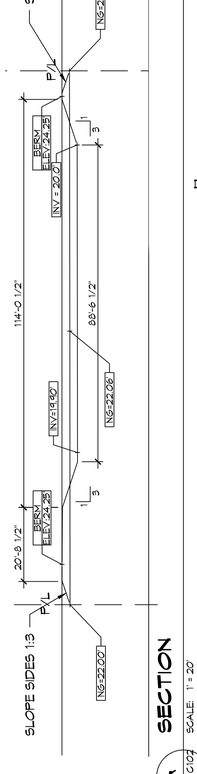
DETENTION CALCULATIONS

1. ALL STORM WATER DETENTION WILL BE DETAINED IN THE POND.
2. STORM WATER OVERFLOW IS SET FOR AN ELEVATION OF 23.55'.
3. THE POND WAS MEASURED AT 59,22 S.F. USING THE OVERFLOW ELEVATION ABOVE AND SECTION B. THE BASE OF THE POND MEASURES 91.3 LINEAR FT. THIS POND WILL DETAIN A MINIMUM OF 5,406 CUBIC FT OF WATER BEFORE OVERFLOW OCCURS.



B C102 | C102 SECTION

SCALE: 1" = 20'



A C102 | C103 SECTION

SCALE: 1" = 20'

12" Ø PIPE; 106 FT; SLOPE .55%

12" Ø PIPE; 58 FT; SLOPE .55% CONNECT TO ROOF DRAINS

CURB CUTS FOR LANDSCAPE DRAINAGE

5' SIDEWALK AROUND PERIMETER

NEW CONSTRUCTION

S 08°37'00" E 397.27'

EXISTING CONSTRUCTION

EDGE OF DETENTION POND

BERM ELEV.24.22

BERM ELEV.24.25

INV = 20.0'

TC=24.25
INV=20.41

TC=24.25
INV=20.60

CONNECT ROOF DRAINS TO SUBSURFACE DRAIN

NEW BUILDING 6,398 S.F. FFE 25.5' (MATCH EXISTING)

EXISTING BUILDING 7488 S.F.

DETENTION POND

B C102 | C102

N 76°24'00" E 146.60'

BERM ELEV.24.35

TC=25.36
BC=24.86

TC=24.00
INV=19.81

TC=25.36
BC=24.86

12" Ø PIPE; 56 FT; SLOPE .55%

SLOPE

SLOPE

SLOPE

SLOPE

SLOPE

SLOPE

TC=24.25
BC=23.75

D.I.
TOP 23.09'
INV. 19.50'

EDGE OF TOP OF BERM

INV=19.90'

MODIFY CURB AS REQUIRED

NOTE: BERM ELEVATION SET BY DRAINAGE OVERFLOW ELEVATION. 0.7' ABOVE OVERFLOW.

TC=23.30
INV=19.61

15" Ø PIPE; 96 FT; SLOPE .55%

D.I.
TOP 23.33'
INV. 19.09'

NEW PAVING HIGH POINT 23.55' FOR DETENTION OVERFLOW

EXISTING SUB-SURFACE DRAINAGE

D.I.
TOP 23.25'
INV. 19.19'

D.I.
TOP 23.26'
INV. 18.87'

D.I.
TOP 23.25'
INV. 18.62'

DOTI MANHOLE
TOP 18.68'
INV. 9.12'

R=1772.00' L=167.62'
CH=S 80°54'48"W 167.56'

S 74°

AP PE

15" Ø PIPE; 52 FT; SLOPE .55%

INSTALL 14.17" Ø ORIFACE ON OUTFALL PIPE.

CURB CUTS FOR LANDSCAPE DRAINAGE @ 15' o.c.

NEW CONSTRUCTION

EXISTING CONSTRUCTION

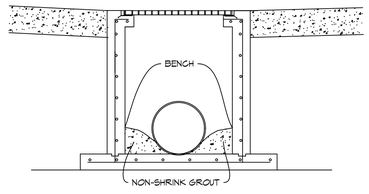
S 01°25'00" E 391.34'

CONNECT NEW PIPE TO EXISTING MANHOLE.

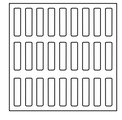
N

7 SITE GRADING AND DRAINAGE PLAN

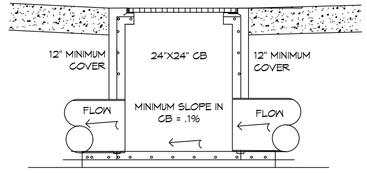
SCALE: 1" = 20'



NOTES:
1. NON-SHRINK GROUT SHALL COMPLY WITH SECTION 1018, LADOTD STANDARD SPECIFICATION FOR ROADS AND BRIDGES, 2016.
2. FOR CONNECTING PLASTIC AND METAL PIPE TO PRECAST UNITS USE RESILIENT CONNECTORS CONFORMING TO ASTM C923.



GRATE TOP VIEW



NOTES:
1. GB'S AND GRATES IN TRAFFIC AREAS SHALL BE LOAD RATED FOR AASHTO M306 & MEET THE REQUIREMENTS OF THE LATEST EDITION OF ASTM & AASHTO. ALL GRATES SHALL BE GALVANIZED. ALL CATCH BASINS AND GRATES SHALL COMPLY WITH SECTION 302, LADOTD STANDARD SPECIFICATION FOR ROADS AND BRIDGES, 2016.

TYP. DRAIN GRATE DETAIL

DAMMON ENGINEERING, INC.
LOUISIANA & MISSISSIPPI
www.dammonengineering.com
info@dammonengineering.com
PH: 985.649.3832
Chief Engineer: Brian Mistich, PE
1711 LA Hwy 21
Slidell, LA 70458

#	DESCRIPTION	REVISIONS	DATE

STATE OF LOUISIANA — BRIAN A. MISTICH — License No. 30187 — PROFESSIONAL ENGINEER — 3/3/2022

NEW ADDITION TO
7121 LA HWY 21
COVINGTON, LA 70433

JOB NO:	2443
DRAWN BY:	DPD
DATE:	03-03-2022
CHECKED BY:	CKD

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SHEET TITLE:
SITE GRADING AND DRAINAGE PLAN

DRAWING NUMBER:
C102

SHEET No: 4 of 19

FILE NAME: J:\...\Dwg\2443 - Honda NOB Addition\Drawings\Current Drawings\C102 - SITE GRADING PLAN.dwg PLOT DATE & TIME: Thursday, March 3, 2022 2:43:55 PM