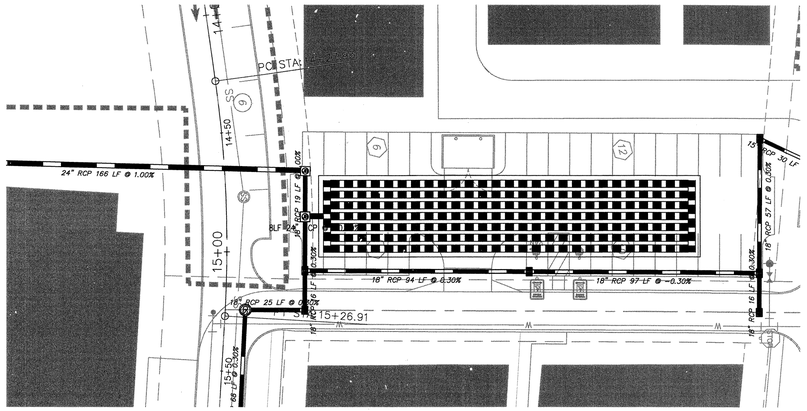
INFILTRATION GALLERY A

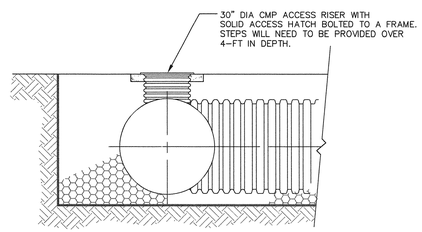


PLAN VIEW
SCALE: 1" = 20'

20' 0 20' 40'
SCALE: 1"=20' (Horiz.)

INFILTRATION GALLERY A
DA= 2.40 AC
STORAGE REQD.= 7,965
STORAGE PROV.= 10,762 CF

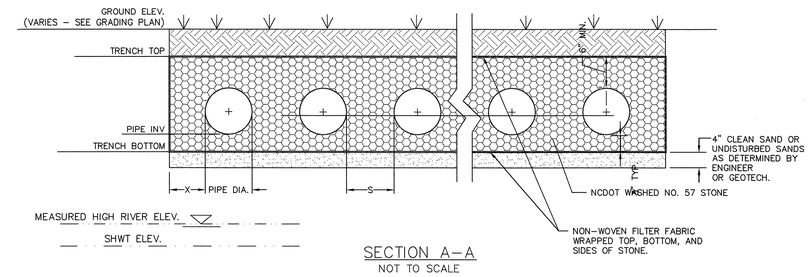
SPLITTER /BYPASS STRUCTURE TABLE		
DESIGN	SDMH-9	SDMH-4
RIM ELEVATION	11.50'	10.50'
WEIR #2 ELEVATION	10.50'	9.25'
WEIR #1 ELEVATION	10.00'	8.75'
SUMP ELEVATION	5.52'	5.22'
OUTFALL PIPE INVERT	6.52'	6.22'



TYP. CMP ACCESS RISER
NOT TO SCALE

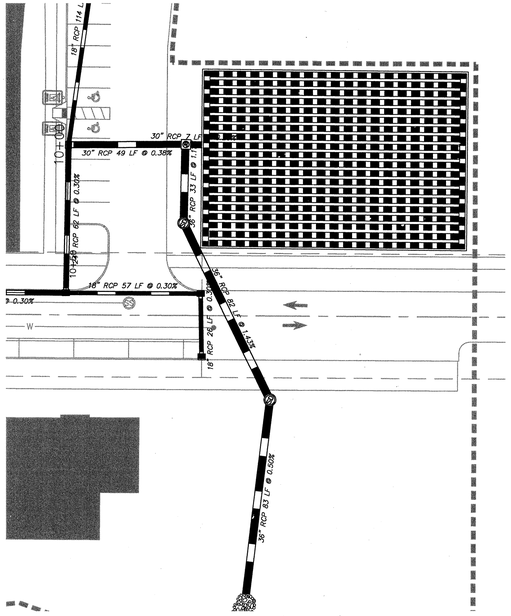
INFILTRATION TRENCH SYSTEM TABLE		
DESIGN	INFILTRATION SYSTEM A	INFILTRATION SYSTEM B
# OF RUNS	7	20
PIPE DIAMETER (IN)	36"CMP	30"CMP
MIN. X (IN)	2'	0.75'
MIN. S (IN)	1/2 DIA. OF PIPE	1/2 DIA. OF PIPE
TRENCH WIDTH (FT)	34'	75.25'
TRENCH LENGTH (FT)	160'	111.5'
SHWT ELEVATION	4.52'	4.22'
TRENCH BOTTOM ELEVATION	6.52'	6.22'
PIPE TRENCH INVERT	6.77'	6.47'
TRENCH TOP ELEVATION	10.27'	9.47'
10-YR WSEL	8.57'	8.63'
25-YR WSEL	9.74'	10.00'
50-YR WSEL	10.50'	10.00'
100-YR WSEL	10.50'	10.00'

NOTES:
1. SHWT AND HIGH RIVER ELEVATIONS TAKEN FROM SITE & SOILS EVALUATION REPORT BY ECS CAROLINAS, LLP DATED FEBRUARY 20, 2015 FOR NEWLAND COMMUNITIES, LLC.
2. EXISTING ELEVATIONS TAKEN FROM COMBINATION OF FIELD MEASUREMENTS AND TOPOGRAPHY SURVEY BY XXXX DATED XXXX.



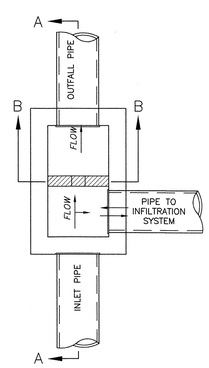
SECTION A–A
NOT TO SCALE

INFILTRATION GALLERY B

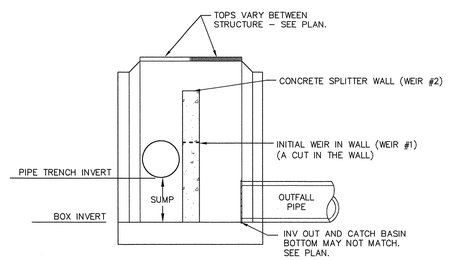


PLAN VIEW
SCALE: 1" = 20'

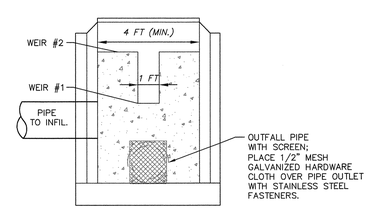
INFILTRATION GALLERY B
DA= 5.61 AC
STORAGE REQD.= 15,268 CF
STORAGE PROV.= 20,827 CF



PLAN

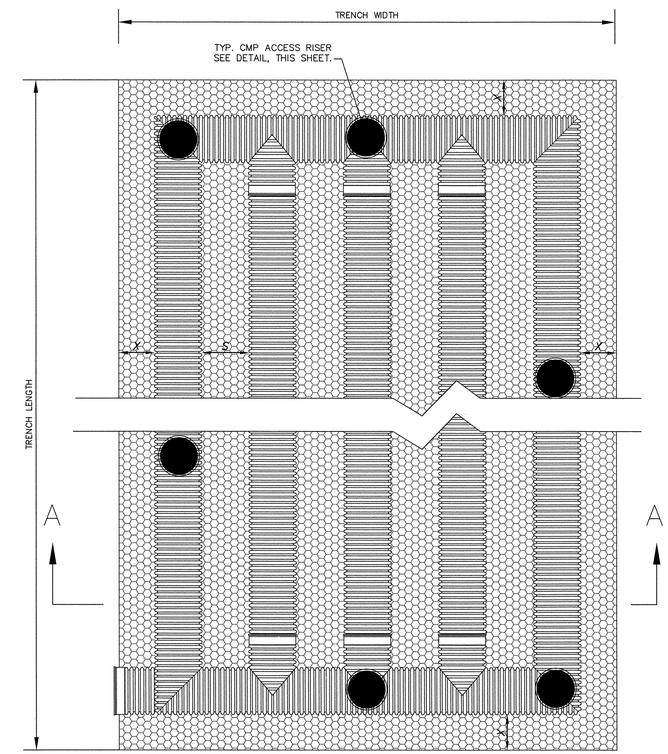


SECTION A–A



SECTION B–B

EXISTING SPLITTER OUTLET BOX (TYP.)
NOT TO SCALE



PLAN VIEW
NOT TO SCALE

NOTES:
1. INFILTRATION TRENCH PIPE SHALL BE CONTECH PERFORATED ALUMINIZED OR ALUMINUM CMP PIPE MEETING AASHTO M-36, CLASS 2 PERFORATIONS (3/8" DIA); OR PERFORATED HDPE MEETING AASHTO CLASS 2, TYPE S PERFORATIONS. CONTRACTOR TO SUBMIT INFILTRATION TRENCH SPECIFICATION FOR ENGINEER APPROVAL.
2. CMP OR HDPE PIPE TO BE INSTALLED PER ASTM & MANUFACTURER'S RECOMMENDATIONS. PIPE JOINTS TO BE PER MANUFACTURER'S RECOMMENDATIONS AS AN UNDERGROUND INFILTRATION SYSTEM.
3. SEE TABLE FOR NUMBER OF PIPE RUNS AND DIMENSIONS.
4. IT IS IMPORTANT THAT FILL MATERIAL FOR THE INFILTRATION TRENCHES SHALL BE SAME MATERIAL AS EXISTING SOILS UNDERLYING THE TRENCH. BE SURE NOT TO COMPACT THE SAND UNDER THE TRENCH SO THAT PROPER INFILTRATION RATES CAN OCCUR BELOW THE TRENCHES.

TYP. INFILTRATION TRENCH SYSTEM
NOT TO SCALE

20' 0 20' 40'
SCALE: 1"=20' (Horiz.)

Approved Construction Plan
Name Date
Planning
Traffic
Fire

STORMWATER MANAGEMENT PLAN
APPROVED
CITY OF WILMINGTON
ENGINEERING DEPARTMENT
DATE _____ PERMIT #_____
SIGNED_____

For each open utility cut of City streets, a $325 permit shall be required from the City prior to occupancy and/or project acceptance.

1 inch

REV.NO.	DESCRIPTIONS	DATE
A	CITY OF WILMINGTON TRC SUBMITTAL	04/08/2015

REVISIONS

FINAL DRAWINGS DO NOT USE FOR CONSTRUCTION

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 035107 ENGINEER NICHOLAS J. LAURITTA
04/08/15

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www.mckimcreed.com

NASH — NORTH AMERICA SEKISUI HOUSE, LLC
RIVERLIGHTS by Newland COMMUNITIES

RIVERLIGHTS MARINA VILLAGE

STORMWATER MANAGEMENT DETAILS

DATE:	08APR15
MCE PROJ. #	2735-0124
DRAWN	EEM
DESIGNED	EEM
CHECKED	RMC
PROJ. MGR.	NJL

SCALE
HORIZONTAL: --
VERTICAL: --

M&C FILE NUMBER CN-501
DRAWING NUMBER 17
17 OF28

STATUS: FINAL DESIGN
NOT FOR CONSTRUCTION
REVISION A