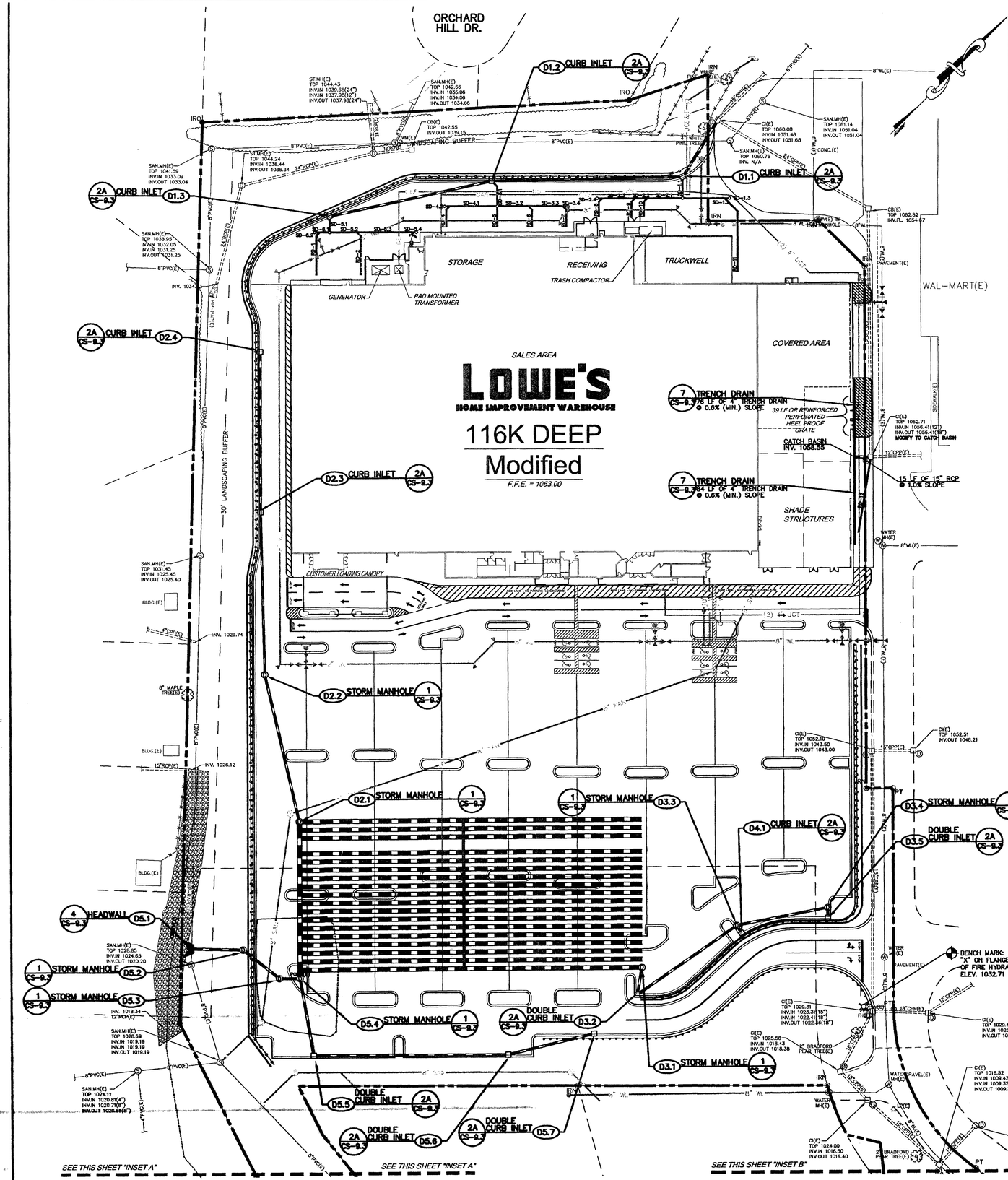


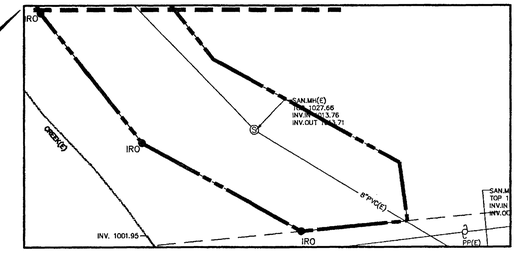


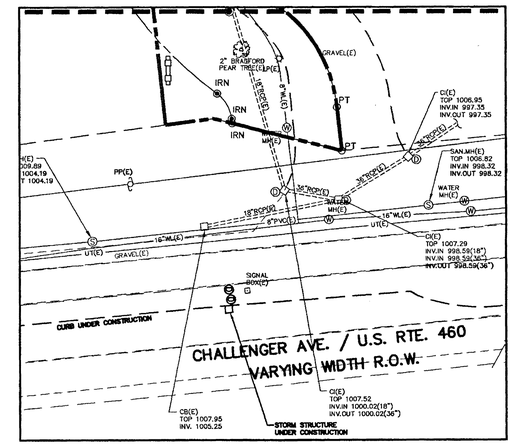


## DRAINAGE NOTES

1) ALL CORRUGATED METAL PIPES SHALL BE FULLY ASPHALT COATED OR ALUMINIZED STEEL TYPE-2. THE MINIMUM GAUGE FOR PIPE MATERIALS SHALL BE 16 GAUGE FOR DIAMETERS OF 10-24 INCHES, 14 GAUGE FOR DIAMETERS OF 30-48 INCHES, 12 GAUGE FOR DIAMETERS OF 54-96 INCHES AND 10 GAUGE FOR DIAMETERS OF 102 INCHES AND LARGER, BUT NOT LESS THAN THE GAUGE OTHERWISE INDICATED ON THE DRAWINGS.

2) ALL DRAINAGE STRUCTURES SHALL BE PRE-CAST.

3) ALL DRAINAGE STRUCTURES AND STORM SEWER PIPES SHALL MEET HEAVY DUTY TRAFFIC (H20) LOADING AND BE INSTALLED ACCORDINGLY.

4) BEFORE EXCAVATION, ALL UNDERGROUND UTILITIES SHALL BE LOCATED IN THE FIELD BY THE PROPER AUTHORITIES. THE CONTRACTOR SHALL NOTIFY MISS UTILITY OF VIRGINIA AT LEAST 3 DAYS PRIOR TO START OF CONSTRUCTION/GRADING.

5) HDPE - SMOOTH INTERIOR CORRUGATED PLASTIC PIPES & FITTINGS MAY BE UTILIZED FOR PIPE SIZES 24" OR SMALLER, FROM THE FOLLOWING MANUFACTURERS:

A.O.S.-N12 MFRD. BY ADVANCED DRAINAGE SYSTEMS, INC.
3300 RIVERSIDE DRIVE, COLUMBUS, OHIO 43221
(614) 457-3051

OR

"SURE_LOCK" MFRD. BY HANCOR INC.
401 OLIVE STREET
FINDLAY, OH. 45840
1-888-FOR-PIPE

OR

"TYPE S LOK-TITE" MFRD. BY LANE ENTERPRISES, INC.
34 STROHM ROAD
SHIPPENSBURG, PA 17257
(717) 532-5959

HDPE SHALL BE INSTALLED PER MANUFACTURER'S GUIDELINE FOR HEAVY DUTY DRAINAGE APPLICATIONS. ALL FITTINGS SHALL BE PRE-MANUFACTURED FITTINGS AS PROVIDED BY THE ABOVE LISTED SUPPLIERS.

## ROOFDRAIN DATA

| ROOFDRAIN ID | INVERT @ BLDG. | PIPE SIZE & TYPE | LENGTH | SLOPE | INVERT @ JUNCTION |
|---|---|---|---|---|---|
| RD-1 | 1060.15 | 10" SICP | 42.4' | 2.01% | 1059.30 |
| RD-2 | 1060.15 | 10" SICP | 42.4' | 1.39% | 1059.56 |
| RD-3 | 1060.15 | 10" SICP | 7.1' | 0.99% | 1060.08 |
| RD-4 | 1060.15 | 10" SICP | 21.4' | 4.58% | 1059.17 |
| RD-5 | 1060.15 | 10" SICP | 20.0' | 7.20% | 1058.71 |
| RD-6 | 1060.15 | 10" SICP | 21.4' | 4.49% | 1059.19 |
| RD-7 | 1060.15 | 10" SICP | 21.4' | 2.01% | 1059.72 |
| RD-8 | 1060.15 | 10" SICP | 18.9' | 17.06% | 1056.92 |
| RD-9 | 1060.15 | 10" SICP | 18.9' | 19.55% | 1056.45 |
| RD-10 | 1058.25 | 10" SICP | 18.9' | 10.46% | 1056.27 |
| RD-11 | 1057.50 | 12" SICP | 76.4' | 1.49% | 1056.36 |
| RD-12 | 1058.50 | 10" SICP | 73.7' | 2.84% | 1056.41 |

## LEGEND

| EXISTING | NEW | DESCRIPTION |
|---|---|---|
| IRO | IRN | IRON ROD |
| PT | | CALCULATED POINT |
| CONC. MON. | | CONCRETE MONUMENT |
| | | LOWE'S PROPERTY LINES |
| | | PROPERTY LINES |
| | | FENCE |
| | | STORM SEWER |
| | | STORM MANHOLE |
| | | CATCH BASIN/CURB INLET |
| 8" SAN(E) | | SANITARY SEWER |
| | | SANITARY MANHOLE |
| | | WATER METER |
| | | GATE VALVE |
| | | FIRE HYDRANT |
| WL(E) | | WATER LINE |
| PP(E) | | POWER POLE |
| LP(E) | | LIGHT POLE |
| | | RADIO ANTENNA |
| | | GUY WIRE |
| E(E) | | OVERHEAD ELECTRIC |
| E&T(E) | | OVERHEAD ELECTRIC & TELEPHONE |
| UE(E) | | UNDERGROUND ELECTRIC |
| | | UNDERGROUND ELECTRIC & TELEPHONE |
| | | UNDERGROUND TELEPHONE |
| NG(E) | | NATURAL GAS |
| GM(E) | | NATURAL GAS METER |

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50 ft.

## NOTICE

LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES SHOWN ARE APPROXIMATE AND ARE NOT NECESSARILY ALL OF THE EXISTING UTILITIES AND STRUCTURES. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATION AND EXISTENCE OF ALL UTILITIES AND UNDERGROUND STRUCTURES.

2/6/03 1"=50'
0221701C_Sal.DWG


LOWE'S
HOME CENTERS, INC.
P.O. BOX 1111 N. WILKESBORO, NC 28656


REVISIONS
◇ PRE-BID SET △ POST BID SET
ISSUE DATE

| DATE | DESCRIPTION |
|---|---|


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COMMONWEALTH OF VIRGINIA
GARY L. TYSINGER
LICENSED NO. 11605
PROFESSIONAL ENGINEER


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ENGINEERING AND CONSTRUCTION
HWY 268 EAST, EAST DOCK N. WILKESBORO, NC 28659
336.658.3257 (F)
336.658.4000 (V)


STORMWATER PLAN
LOWE'S OF:
EAST ROANOKE
ROANOKE, VIRGINIA

PROJECT No: 0221701C | DRAWN BY: JES | CHECKED BY: TOP

ORIGINAL ISSUE DATE: APR 15 2003
PERMIT SET ISSUE DATE:
CONSTRUCTION SET ISSUE DATE:
DRAWING NUMBER:
CS-7.1
OF 11