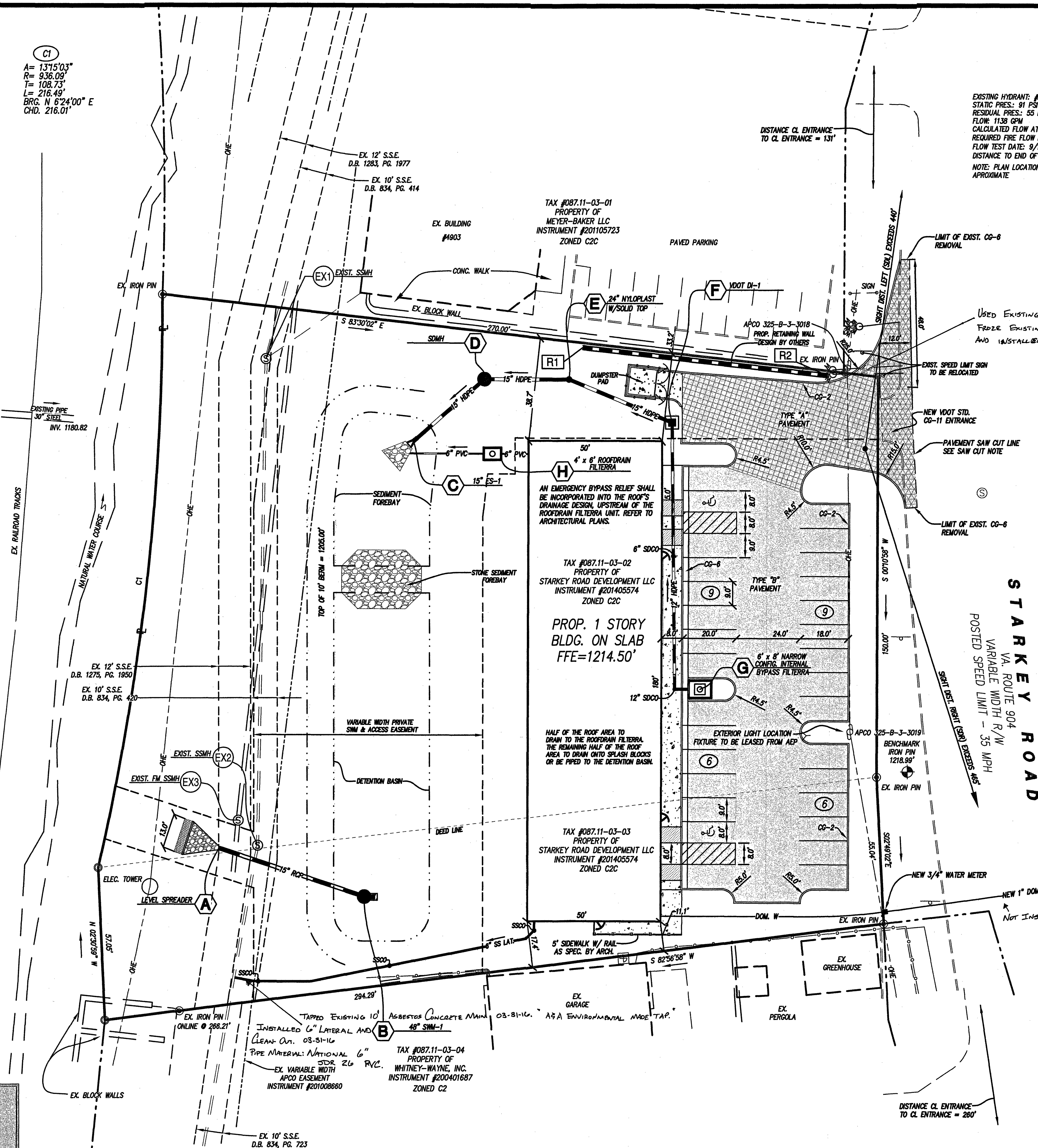


MERIDIAN OF  
INSTRUMENT #201405574

C1  
A= 1315.03'  
R= 936.03'  
T= 108.73'  
L= 216.49'  
BRG. N 62°4'00" E  
CHD. 216.01'

NORFOLK SOUTHERN RAILWAY



EXISTING HYDRANT: #21962  
STATIC PRESS.: 91 PSI  
RESIDUAL PRESS.: 55 PSI  
FLOW: 1138 GPM  
CALCULATED FLOW AT 20 PSI: 1642 GPM  
REQUIRED FIRE FLOW PER ISO WORKSHEET = 1500 GPM  
FLOW TEST DATE: 9/18/14  
DISTANCE TO END OF PROPOSED PARKING LOT = 322'  
NOTE: PLAN LOCATION TAKEN FROM WYMA GIS AND IS APPROXIMATE

STANDARD PAVEMENT  
HEAVY-DUTY PAVEMENT  
VDOT PAVEMENT REPLACEMENT

1.5" ASPHALT CONCRETE; TYPE SM-9.5A  
4" ASPHALT CONCRETE; TYPE BM-25.0  
8" TYPE I AGGREGATE BASE MATERIAL, SIZE 21B  
COMPACTED EARTH

NEW PAVEMENT SECTION TO BE THE GREATER  
OF THAT SHOWN ABOVE, OR EXISTING SECTION

VDOT PAVEMENT REPLACEMENT DETAIL

NO SCALE

1.5" ASPHALT CONCRETE; TYPE SM-9.5A  
3" ASPHALT CONCRETE; TYPE BM-25.0  
6" AGGREGATE BASE, VDOT #21-B STONE  
COMPACTED EARTH

TYPE "A" PAVEMENT DETAIL (HEAVY DUTY)

NO SCALE

2" ASPHALT CONCRETE; TYPE SM-9.5A  
8" AGGREGATE BASE, VDOT #21-B STONE  
COMPACTED EARTH

TYPE "B" PAVEMENT DETAIL (STANDARD DUTY)

NO SCALE

PAVEMENT SAW CUT NOTE:

SAW CUT LINE TO BE ALONG FULL  
DEPTH OF EXISTING PAVEMENT  
SECTION. IT SHALL ALSO BE LOCATED  
SO THAT NEW PAVEMENT HAS A  
MINIMUM WIDTH OF TWO FEET (2').

## WATER &amp; SEWER NOTES:

- ALL WATER AND SANITARY SEWER LINES SHALL HAVE A MINIMUM OF 3.0 FEET OF COVER.
- MAINTAIN A MINIMUM OF 18" CLEARANCE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE AT ALL WATER, SANITARY SEWER AND STORM DRAIN CROSSINGS. WHERE THIS CLEARANCE CANNOT BE ACHIEVED, CONCRETE PIERS SHALL BE UTILIZED IN ACCORDANCE WITH THE STANDARDS OF THE WESTERN VIRGINIA WATER AUTHORITY.
- BACKFILL UNDER 18" SS FORCE MAIN SHALL BE FLOWABLE FILL.
- A WYMA INSPECTOR SHALL IN PRESENT DURING THE INSTALLATION OF THE NEW SANITARY SEWER LATERAL CONNECTION.
- IF THE WYMA IS REQUIRED TO EXCAVATE THE EXISTING SANITARY SEWER LINES, THEY WILL NOT BE RESPONSIBLE FOR RESTORING THE STRUCTURAL INTEGRITY OF THE PROPOSED STORMWATER MANAGEMENT BASIN.
- THE EXISTING WATER SERVICE SHALL BE ABANDONED AT THE CORPORATION STOP.

## STORM DRAIN NOTES:

- ALL NEW STORM DRAIN PIPE SHOWN ON THIS PLAN IS HDPE, ADS N-12, EXCEPT WHERE OTHER MATERIALS ARE INDICATED.

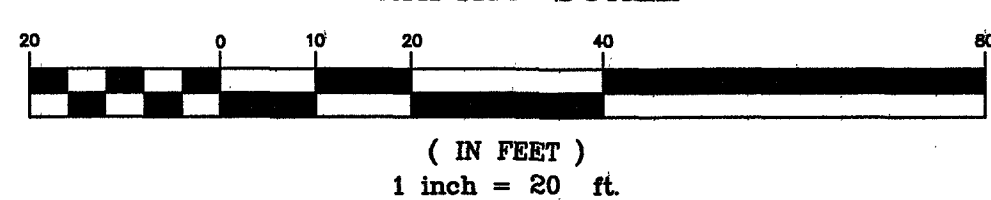
APPROVED

NOTE:  
ALL DIMENSIONS ARE TO FACE OF CURB, EDGE OF PAVEMENT OR BOTTOM OF WALL, UNLESS OTHERWISE NOTED.

## ABBREVIATIONS

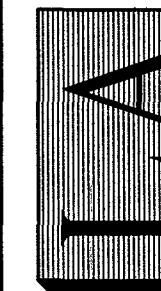
|         |                          |
|---------|--------------------------|
| R/W     | RIGHT OF WAY             |
| VAR.    | VARIABLE                 |
| EXIST.  | EXISTING                 |
| D.B.    | DEED BOOK                |
| P.B.    | PLAT BOOK                |
| P.G.    | PAGE                     |
| INST. # | INSTRUMENT NUMBER        |
| TYP.    | TYPICAL                  |
| TR      | TO BE REMOVED            |
| RC      | REINFORCED CONCRETE PIPE |
| SD      | STORM DRAIN              |
| SDMH    | STORM DRAIN MANHOLE      |
| SS      | SANITARY SEWER           |
| SSMH    | SANITARY SEWER MANHOLE   |
| CO      | SANITARY SEWER CLEANOUT  |
| C       | COMMUNICATIONS LINE      |
| G       | NATURAL GAS LINE         |
| W       | WATER LINE               |
| FTE     | FINISHED FLOOR ELEVATION |
| TC      | TOP OF CURB              |
| FW      | FINISHED FLOOR ELEVATION |
| BT      | BOTTOM OF WALL           |
| EP      | EDGE OF PAVEMENT         |
| SDCO    | STORM DRAIN CLEANOUT     |

## GRAPHIC SCALE



Dig With CARE  
Keep Virginia Safe!

- Call Miss Utility at 811 before you dig.
- Allow the required time for marking.
- Respect the marks.
- Excavate carefully.

LUMSDEN ASSOCIATES, P.C.  
ENGINEERS-SURVEYORS-PLANNERS  
ROANOKE, VIRGINIACOMMONWEALTH OF VIRGINIA  
HOWARD P. BOGGS, II  
Lic. No. 0008920  
5/15/15  
LANDSCAPE ARCHITECT

DIMENSIONAL LAYOUT

DEVELOPMENT PLAN  
FOR  
FOTI / STARKEY ROAD  
PREPARED FOR  
VIC FOTI  
CAVE SPRING MAGISTERIAL DISTRICT  
ROANOKE COUNTY, VIRGINIA

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
| 1   |      |             |
| 2   |      |             |
| 3   |      |             |
| 4   |      |             |
| 5   |      |             |

DATE: May 15, 2015

SCALE: 1"=20'

COMMISSION NO: 14-059

SHEET 3 OF 10