

GENERAL NOTES

- The property delineated on this plan is owned by OakCrest Builders, Inc. and located adjacent to and is part of the Creekside Village and the Creekside Station Commercial developments fronting Valley Avenue within the limits of the City of Winchester, Virginia. The developer intends to construct 45 multi-family townhouse style condominium dwelling units on this site.
- Property Owner :
OakCrest Builders, Inc.
126 North Kent Street
Winchester, Virginia 22601
Contact: Ms. Nameeta Sahni
Telephone: (540) 504-0719
- Engineer:
PAINTER-LEWIS, P.L.C.
817 Cedar Creek Grade, Suite 120
Winchester, Virginia 22601
Contact: Mr. Timothy G. Painter, P.E.
Telephone: (540) 662-5792
- Surveyor:
PAINTER-LEWIS, P.L.C.
817 Cedar Creek Grade, Suite 120
Winchester, Virginia 22601
Contact: Mr. David F. Spriggs
Telephone: (540) 662-5792

5. The existing topographic and existing features information, shown on these plans, was taken from a series of field surveys performed by the Survey Division of Painter-Lewis, P.L.C. and compiled together to provide a general existing conditions plan for the rezoning of the parcel. A complete and current field survey will be performed, prior to the design of this project, to verify and establish the boundary and as-built conditions for the development of this site.

6. Site Data:
Tax Map: 329-1--21
Parcel Area: 4.4449 Acres
Zoning (Existing): B-2 & Conditional B-2
Zoning (Proposed): B-2 with PUD Overlay
Existing Use: Vacant
Proposed Use: Residential Condominium Townhouse Complex

7. Zoning Requirements:
B-2 Highway Commercial District:
Lot Size: 10,000 Sq. Ft. (Minimum) 4.4449 Ac. Provided
Lot Width: 100 Ft. (Minimum) 141.83 Ft. Provided
Setbacks:
Front: 35 Ft. (Minimum)
Side: 50 Ft. (LR & MR) for Multi-family
Side: 15 Ft. (Commercial)
Rear: 75 Ft. (LR & MR) for Multi-family
Rear: 25 Ft. (Commercial)
Height: Upto 55 Ft. (with 1' side and rear yard increases)

PUD Planned Urban District:
Lot Size: 5 Contiguous Acres 4.4449 Ac. Provided
(Special Exception is hereby requested.)
Density: 18 Units per Acre
(18 x 4.4449 = 80 Units) 45 Proposed
Common Open Space: Determined by Density with Recreational Amenities
Battlefield viewshed with a Town Center design has been provided supplemented with walking trails, fire pits & a pavilion.

8. PROJECT SITE DEVELOPMENT DATA:
TOTAL PROJECT AREA: 4.4449 Ac.
NINE RESIDENTIAL CONDOMINIUM TOWNHOUSE STYLE BUILDINGS:
SIX (6) FOUR-STORY BUILDINGS: 31 D.U. TOTAL IN THESE BUILDING TYPES
(BLDGS.: A, B, C, D, E, F)
THREE (3) THREE-STORY BUILDINGS: 14 D.U. TOTAL IN THESE BUILDING TYPES
(BLDGS.: G, H, I)
TOTAL DWELLING UNITS: 45 DWELLING UNITS
BUILDING HEIGHTS:
FOUR-STORY BUILDINGS: 42'-0" MAXIMUM ROOF HEIGHT
THREE-STORY BUILDINGS: 35'-7" MEAN ROOF HEIGHT
PARCEL COVERAGE:
BUILDINGS: 33,315 Sq. Ft. (0.76 Ac.)
ROADWAYS & AISLE AREAS: 54,481 Sq. Ft. (1.25 Ac.)
CONCRETE DRIVEWAYS: 10,820 Sq. Ft. (0.25 Ac.)
PAVED WALKWAYS & TRAILS: 14,165 Sq. Ft. (0.33 Ac.)
GREEN SPACE: 80,840 Sq. Ft. (1.85 Ac.)
GREEN SPACE AREA (PERVIOUS):
w/ TRAILS: 41.8% of the SITE
49.1% of the SITE
COMMON OPEN SPACE: 35% REQUIRED COMMON OPEN SPACE
TOTAL SITE GREEN SPACE: 95,005 Sq. Ft.
NON-COMFORMING AREAS: 26,936 Sq. Ft.
TOTAL COMMON OPEN SPACE: 68,069 Sq. Ft. (1.56 Ac.)
COMMON OPEN SPACE: 35.2 % of the SITE

PROPERTY RESTRICTIONS:
PROFFERED RESTRICTIONS OR COVENANTS WILL APPLY TO AND BECOME PART OF THIS PROJECT AND THE RELATED PROPERTY DOCUMENTS, AS SPECIFIED IN ACCORDANCE WITH THE APPROVED REZONING APPLICATION.

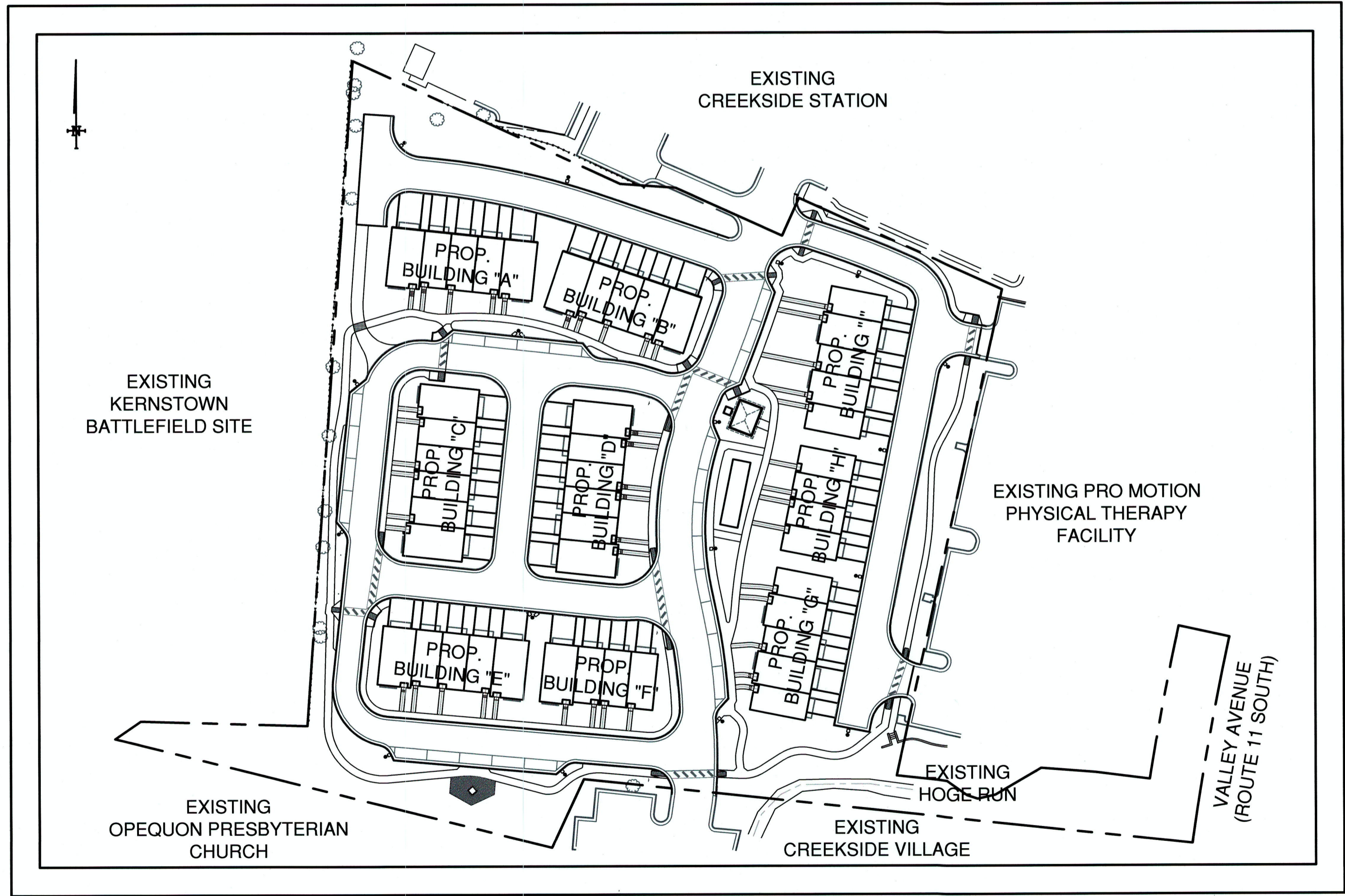
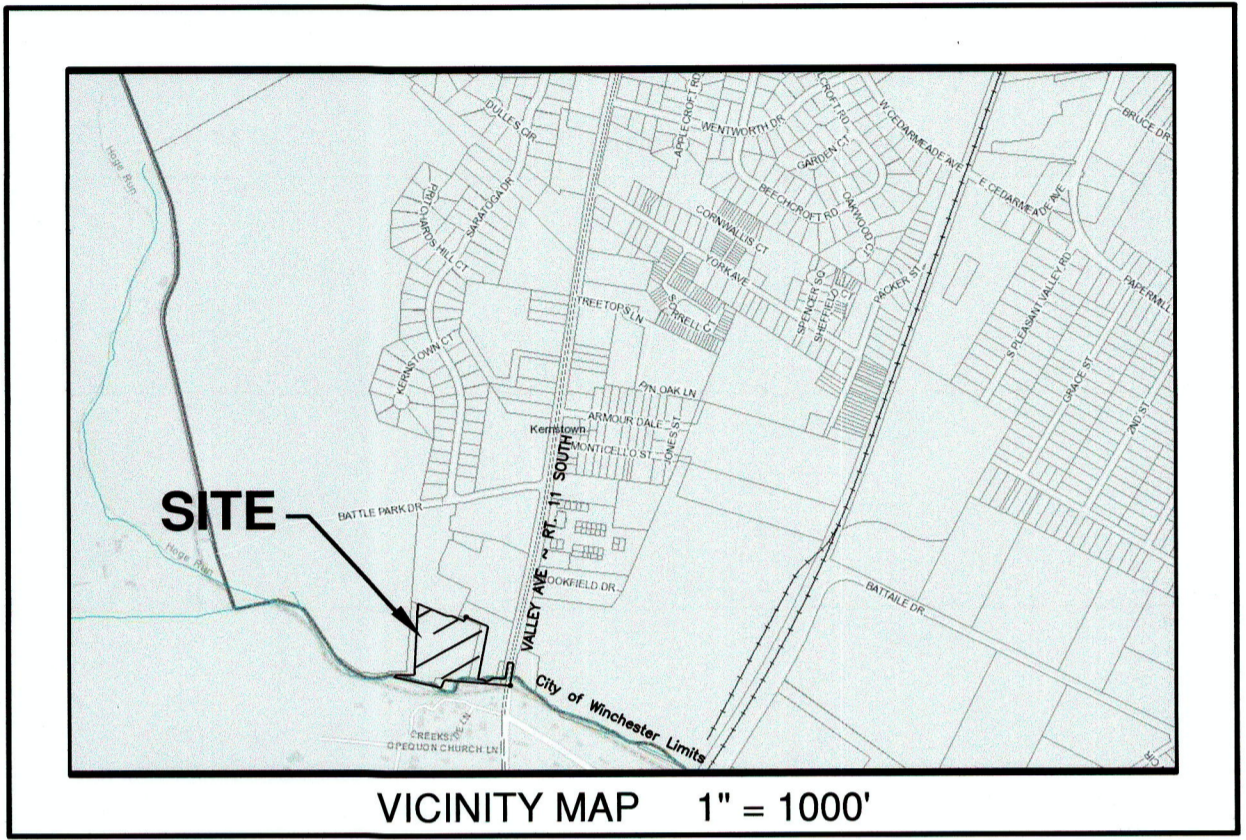
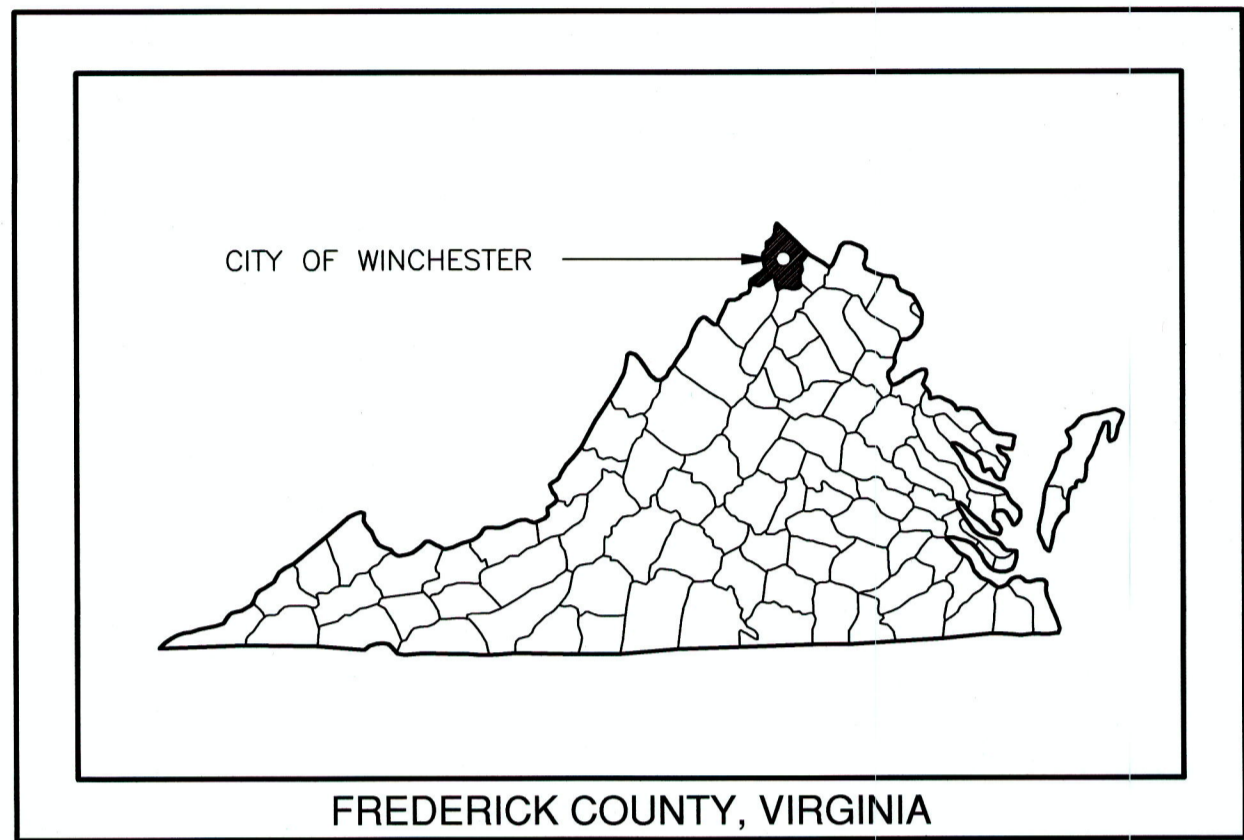
9. SITE DEVELOPMENT - PARKING CALCULATION:
PARKING REQUIRED:
ONE & TWO BEDROOM DWELLING UNITS:
1 SPACE PER DWELLING UNIT
BUILDINGS: G, H, & I: 14 UNITS
1x14 DWELLING UNITS = 14 SPACES
THREE BEDROOM DWELLING UNITS:
2 SPACES PER DWELLING UNIT
BUILDINGS: A, B, C, D, E, & F: 31 UNITS
2x31 DWELLING UNITS = 62 SPACES
TOTAL ON-SITE PARKING REQUIRED: 76 SPACES
PARKING PROVIDED:
15 EA. TWO-CAR GARAGE UNITS: 30 SPACES
30 EX. ONE-CAR GARAGE UNITS: 30 SPACES
SITE PARKING (PARALLEL SPACES): 24 SPACES
TOTAL ON-SITE PARKING PROVIDED: 84 SPACES

THE LOFTS AT CREEKSIDE CONDOMINIUM

3131 VALLEY AVENUE (ROUTE 11 SOUTH)

WINCHESTER, VIRGINIA 22601

SITE DEVELOPMENT PLAN



LIST OF DRAWINGS:

SHEET 1/20:	COVER SHEET
SHEET 2/20:	REZONING NOTES, GENERAL NOTES, OVERALL EXISTING FEATURES AND DEMOLITION PLAN
SHEET 3/20:	SITE LAYOUT PLAN
SHEET 4/20:	SITE GRADING PLAN
SHEET 5/20:	SITE UTILITY LAYOUT PLAN
SHEET 6/20:	SITE EROSION & SEDIMENT CONTROL LAYOUT PLAN
SHEET 7/20:	EROSION AND SEDIMENT CONTROL NARRATIVE AND DETAILS
SHEET 8/20:	SITE LANDSCAPING PLAN and LIGHTING & ILLUMINATION PLAN
SHEET 9/20:	SITE LANDSCAPING and LIGHTING DETAILS
SHEET 10/20:	FIRE PROTECTION PLAN & DETAILS
SHEET 11/20:	SITE DRAINAGE DIVIDES PLAN
SHEET 12/20:	STORM WATER QUALITY CALCULATION SPREADSHEETS
SHEET 13/20:	STORM WATER QUALITY CALCULATION SUMMARY SPREADSHEETS
SHEET 14/20:	STORM SEWER PLANS & PROFILES: A-A5 & B-B2 and C-C3
SHEET 15/20:	STORM SEWER SYSTEM DETAILS
SHEET 16/20:	SANITARY SEWER SYSTEM MAIN PLAN & PROFILE
SHEET 17/20:	SANITARY SEWER SYSTEM DETAILS
SHEET 18/20:	WATER LINE PLANS & PROFILES: LINE A & LINE B
SHEET 19/20:	WATER SYSTEM DETAILS
SHEET 20/20:	MISCELLANEOUS CONSTRUCTION DETAILS

LAND DISTURBANCE PERMIT RESPONSIBLE PARTY:

RESPONSIBLE LAND DISTURBER

NAME: _____
 CERTIFICATION #: _____
 DATE: _____

THE RESPONSIBLE LAND DISTURBER IS THE PARTY RESPONSIBLE FOR CONSTRUCTION & MAINTENANCE OF ALL THE LAND DISTURBING ACTIVITIES AS SET FORTH IN THESE PLANS.

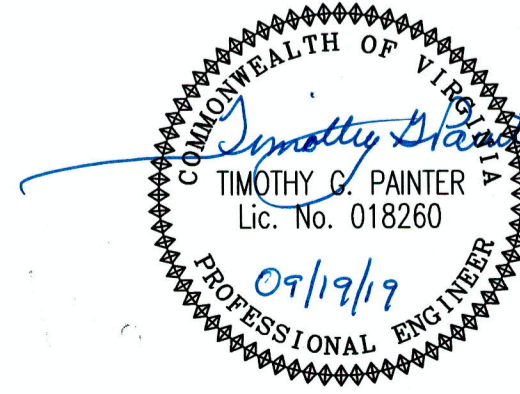
SITE PLAN APPROVAL BLOCK:

APPROVED

PLANNING DIRECTOR _____ DATE _____
 SITE PLAN EXPIRES FIVE (5) YEARS FROM DATE OF APPROVAL

OAKCREST BUILDERS, INC.
 THE LOFTS AT CREEKSIDE
 CONDOMINIUM COMPLEX
 3131 VALLEY AVENUE (ROUTE 11 SOUTH)
 WINCHESTER, VIRGINIA 22601

PAINTER-LEWIS, P.L.C.
 817 CEDAR CREEK GRADE, SUITE 120
 WINCHESTER, VIRGINIA 22601
 Telephone: (540) 662-5792
 Facsimile: (540) 662-5793
 Email: office@painterlewis.com
 JOB NO.: 1802043
 September 09, 2019



CITY OF WINCHESTER, VIRGINIA
SITE PLAN: SP-19-xxx

ABBREVIATIONS

Table listing abbreviations and their corresponding full names, such as ASSY. ASSEMBLY, B.F. BASEMENT FLOOR, BLK. BLOCK, etc.

REZONING APPROVAL LETTER:



City of Winchester contact information: 15 North Cameron Street, Winchester, VA 22601, Telephone: (540) 667-1815.

March 4, 2019

Oakcrest Builders Inc. 126 N. Kent St. Winchester, VA 22601

Dear Mr. Painter:

On Tuesday, February 26, 2019, the Winchester City Council acted on the following:

RZ-18-893 AN ORDINANCE TO REZONE 4.45 ACRES OF LAND AT 3131 VALLEY AVENUE (Map Number 329-01-21) HIGHWAY COMMERCIAL (B-2) DISTRICT TO HIGHWAY COMMERCIAL (B-2) DISTRICT WITH PLANNED UNIT DEVELOPMENT (PUD) OVERLAY

City Council approved the request because the 4.45 acre rezoning is consistent with the Comprehensive Plan which calls for mixed-use development in proximity to transit along Valley Avenue and appears to represent good planning practice.

Please call if you have any questions, 540-667-1815 ext. 1415.

Sincerely,

Handwritten signature of Timothy A. Youmans

Timothy A. Youmans Planning Director

cab

"To be a financially sound City providing top quality municipal services while focusing on the customer and engaging our community."

GENERAL CONSTRUCTION NOTES

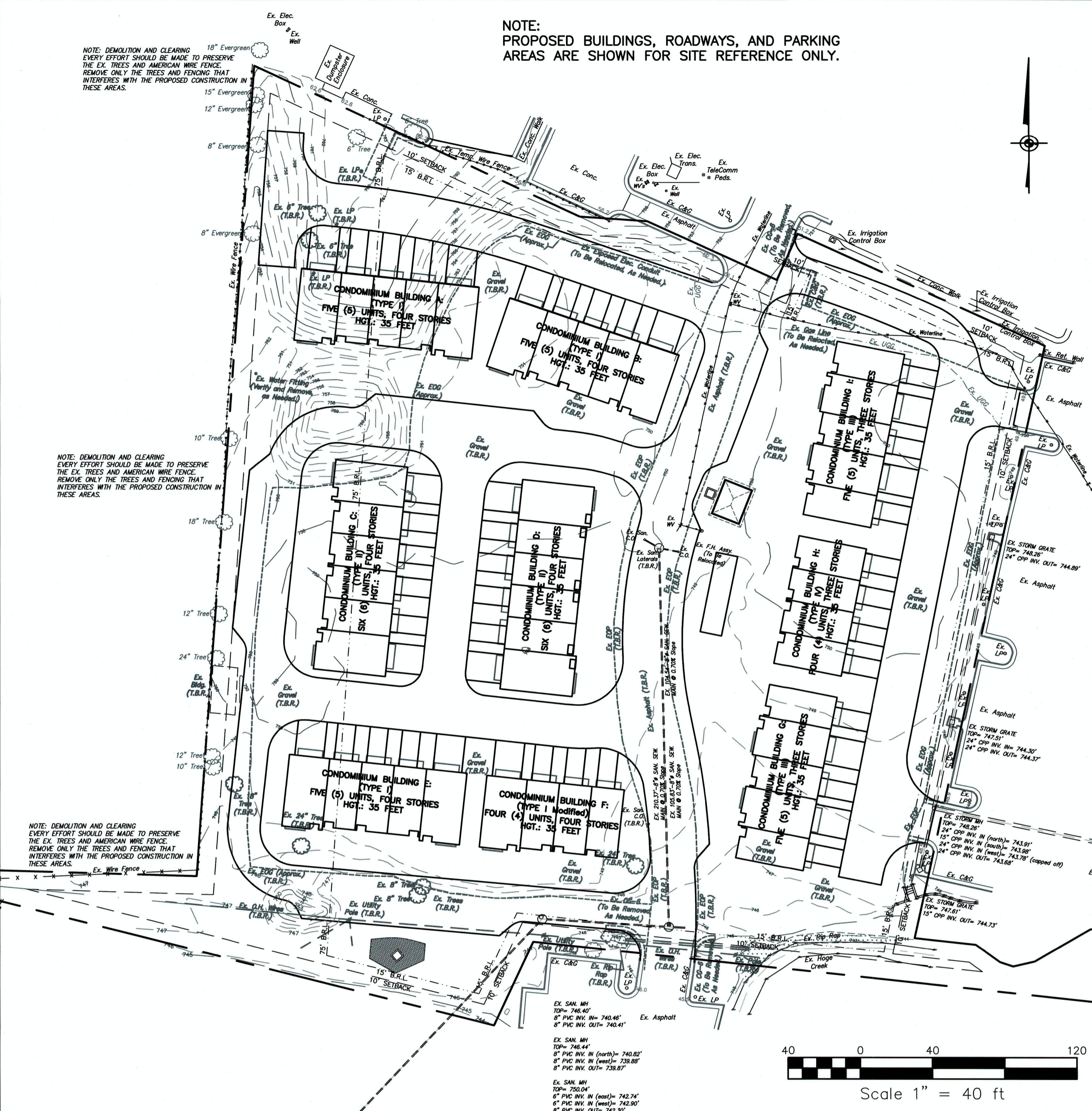
- GENERAL CONSTRUCTION NOTES: 1. ALL WORK AND MATERIALS SHALL CONFORM TO THE CURRENT STANDARDS OF THE CITY OF WINCHESTER, VIRGINIA... 2. EROSION AND SEDIMENT CONTROL SHALL CONFORM TO THE STANDARDS AND SPECIFICATION OF THE COMMONWEALTH OF VIRGINIA... 3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY "MISS UTILITY" AT B11 AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF ANY LAND DISTURBING ACTIVITY...

- UTILITY COMPANIES: VERIZON: (540) 665-3156; SHENANDOAH VALLEY ELECTRIC COOPERATIVE: (540) 722-5830; SHENANDOAH GAS COMPANY: (540) 869-1111; WATER AND SEWER (CITY OF WINCHESTER): (540) 667-1815... 11. WHERE PLANS CALL FOR MATCHING EXISTING CONCRETE OR PAVEMENT, THE CONTRACTOR SHALL PROVIDE CUT JOINT OR ASPHALT OVERLAY AS REQUIRED TO PROVIDE A SMOOTH TRANSITION...

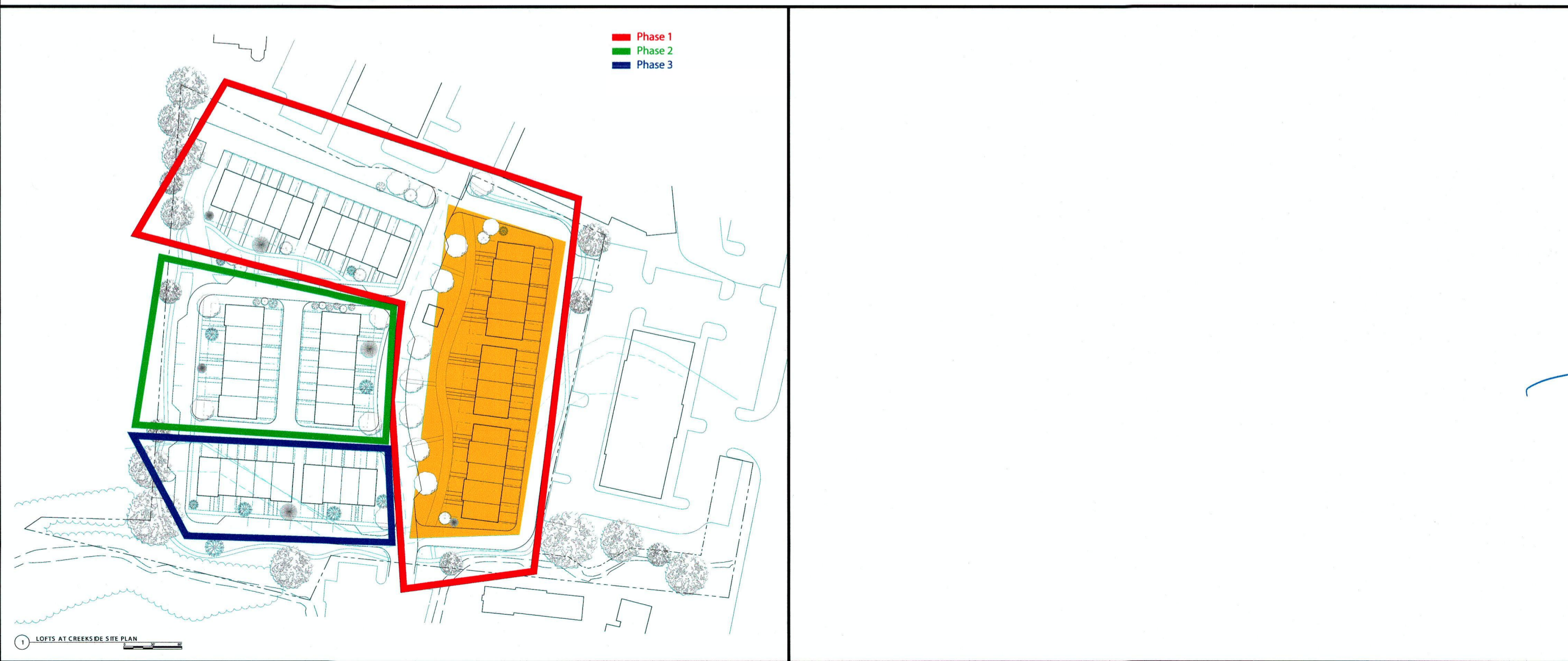
REZONING NOTES and SITE DEVELOPMENT INFORMATION:

Table with 2 columns: Category and Value. Includes: PROJECT SITE DEVELOPMENT DATA: 4.4449 Ac.; NINE RESIDENTIAL CONDOMINIUM TOWNHOUSE STYLE BUILDINGS: 31 D.U. TOTAL; BUILDING HEIGHTS: 42'-0" MAXIMUM ROOF HEIGHT; GREEN SPACE AREA (PERVIOUS): 41.8% of the SITE; COMMON OPEN SPACE: 35.2 % of the SITE.

EXISTING CONDITIONS and DEMOLITION PLAN



SITE DEVELOPMENT - PHASING PLAN:



NOTE: PROPOSED BUILDINGS, ROADWAYS, AND PARKING AREAS ARE SHOWN FOR SITE REFERENCE ONLY.

REVISIONS table with columns: NO., DATE, DESCRIPTION.

TITLE: SITE DEVELOPMENT PLAN: REZONING NOTES, GENERAL NOTES, EXISTING CONDITIONS and DEMOLITION PLAN

PROJECT: OAKCREST BUILDERS, INC. THE LOFTS AT CREEKSIDE CONDOMINIUM COMPLEX 3131 VALLEY AVENUE (ROUTE 11 SOUTH) WINCHESTER, VIRGINIA 22601

PAINTER-LEWIS, P.L.C. 817 CEDAR CREEK GRADE, SUITE 120 WINCHESTER, VIRGINIA 22601 Telephone: (540) 662-5792

Professional Engineer seal for Timothy G. Painter, No. 018260, dated 09/19/19. Includes survey and drawing details at the bottom.

PROJECT TRAFFIC IMPACTS:
 TRIP GENERATION:
 REFERENCE: TRIP GENERATION MANUAL, 9th EDITION
 BY-RIGHT USE: B-2 RETAIL
 PARCEL: 4.4449 Ac.
 POTENTIAL GROSS SQUARE FOOTAGE PER ACRE: 25%
 RETAIL AREA: 4.4449 x 0.25 = 1.111 Ac => 48,405 Sq. Ft.
 USE 48,000 Sq. Ft. GROSS LEASABLE RETAIL SPACE

TRIP GENERATION:
 USE: RETAIL SPACE: 48,000 Sq. Ft.
 TRIPS PER 1000 Sq. Ft. GROSS AREA

48,000 Sq. Ft./1000 Sq. Ft. = 48 => 48 (1000 Sq. Ft.)
 WEEKDAY:
 X = 48
 $Ln(T) = 0.65 Ln(X) + 5.83$
 $Ln(T) = 0.65 Ln(48) + 5.83$
 T = 4214.48 => (4215 Trips Weekday)
 (50% Entering, 50% Exiting)

PROPOSED USE: B-2 with PUD OVERLAY: RESIDENTIAL CONDOMINIUM TOWNHOUSE
 PARCEL: 4.4449 Ac.
 DEVELOPMENT: 45 TOWNHOUSE STYLE CONDOMINIUMS

TRIP GENERATION:
 USE: RESIDENTIAL CONDOMINIUM TOWNHOUSE: 45 UNITS
 TRIPS PER DWELLING UNIT

RESIDENTIAL CONDOMINIUM TOWNHOUSE UNITS: 45 UNITS
 WEEKDAY:
 X = 45
 $Ln(T) = 0.87 Ln(X) + 2.46$
 $Ln(T) = 0.87 Ln(45) + 2.46$
 T = 321.11 => (321 Trips Weekday)
 (50% Entering, 50% Exiting)

PROPOSED SITE DEVELOPMENT:
 TOTAL NUMBER OF TRIPS FOR THE SITE: (MAXIMUM)
 T = 321 TRIPS (WEEKDAY)

BY-RIGHT USE:
 TOTAL NUMBER OF TRIPS FOR THE SITE: (MAXIMUM)
 T = 4872 TRIPS (WEEKDAY)

PROPOSED USE RESULTS IN SUBSTANTIALLY LESS TRAFFIC ON THE AISLES,
 ROADWAYS, & CITY STREETS.

SITE DEVELOPMENT - PARKING CALCULATION:
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 ONE & TWO BEDROOM DWELLING UNITS:
 1 SPACE PER DWELLING UNIT

BUILDINGS: G, H, & I: 14 UNITS
 1x14 DWELLING UNITS = 14 SPACES

THREE BEDROOM DWELLING UNITS:
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UTILITY LEGEND	
	EX. WATER LINE
	PR. WATER LINE
	STORM SEWER LINE
	SANITARY SEWER LINE
	GAS LINE
	UNDERGROUND ELECTRIC LINE
	OVERHEAD ELECTRIC AND TELEPHONE LINE

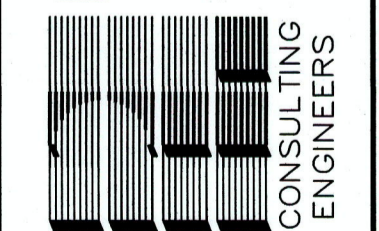


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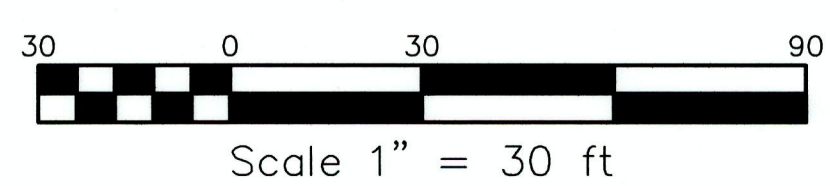
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**SITE DEVELOPMENT PLAN:
 SITE LAYOUT PLAN**

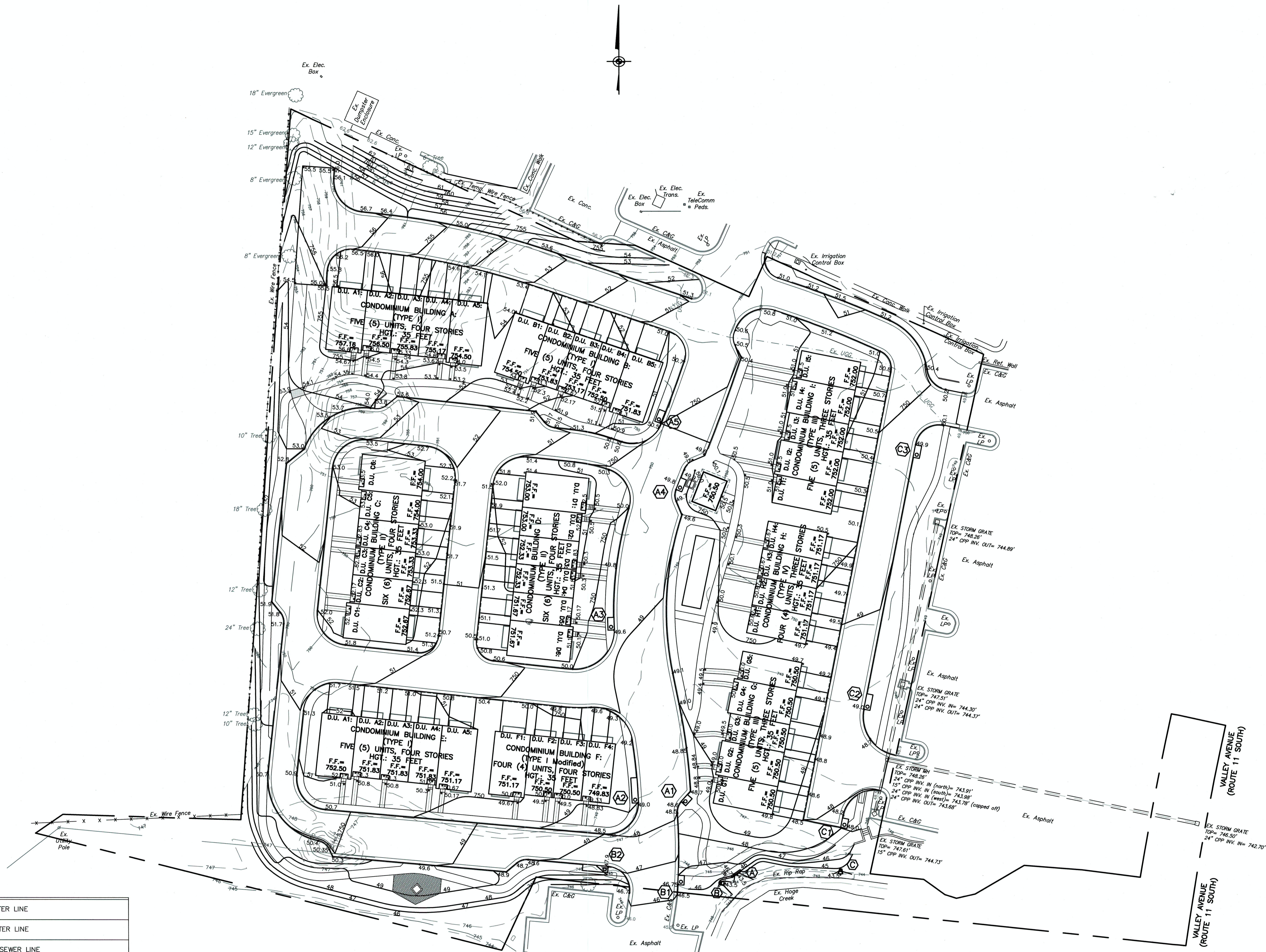
PROJECT:
**OAKCREST BUILDERS, INC.
 THE LOFTS AT CREEKSIDE
 CONDOMINIUM COMPLEX
 3131 VALLEY AVENUE
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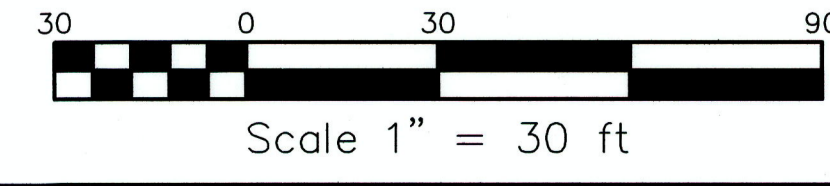
SURVEY: P-L PLC C.I.: 1'
 DRAWN BY: TGP JOB NO.: 1802043
 SCALE: 1"=30.0' DATE: 09-09-19
 SHEET: 3/20





UTILITY LEGEND

	EX. WATER LINE
	PR. WATER LINE
	STORM SEWER LINE
	SANITARY SEWER LINE
	GAS LINE
	UNDERGROUND ELECTRIC LINE
	OVERHEAD ELECTRIC AND TELEPHONE LINE



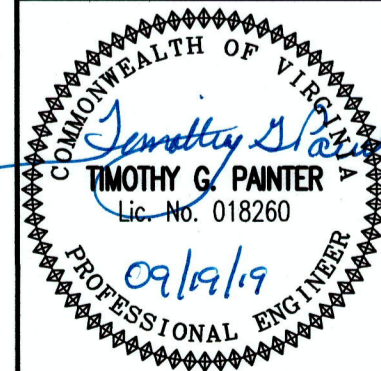
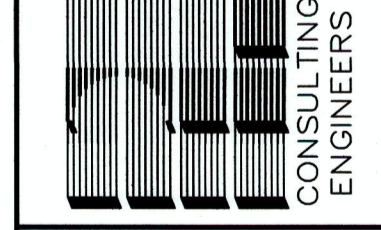
REVISIONS

NO.	DATE	DESCRIPTION	BY

TITLE:
**SITE DEVELOPMENT PLAN:
 SITE GRADING PLAN**

PROJECT: **OAKCREST BUILDERS, INC.
 THE LOFTS AT CREEKSIDE
 CONDOMINIUM COMPLEX
 3131 VALLEY AVENUE
 (ROUTE 11 SOUTH)
 WINCHESTER, VIRGINIA 22601**

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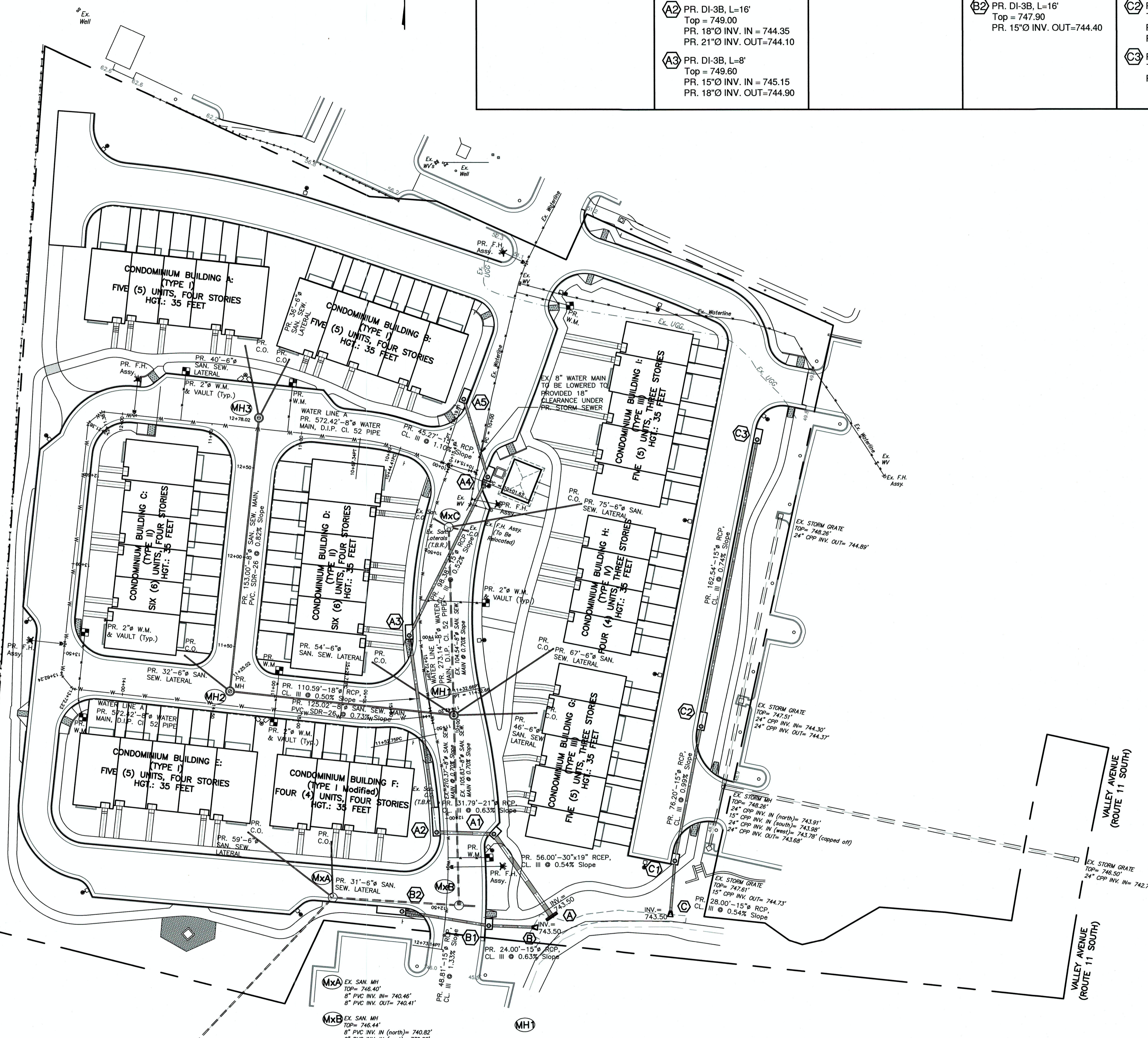
SURVEY: C.I.:
 P-L PLC 1'
 DRAWN BY: JOB NO.:
 TGP 1802043
 SCALE: DATE:
 1"=30.0' 09-09-19
 SHEET:

**SITE SANITARY SEWER SYSTEM:
SANITARY SEWER STRUCTURES SUMMARY**

- MxA** Ex. SAN. MH
TOP= 746.40'
8" PVC INV. IN = 740.46'
8" PVC INV. OUT = 740.41'
PR. 6" LATERAL IN = 740.63'
PR. 6" LATERAL IN = 740.63'
- MxB** Ex. SAN. MH
TOP= 746.44'
8" PVC INV. IN (north)= 740.82'
8" PVC INV. IN (west)= 739.88'
8" PVC INV. OUT = 739.87'
- MH1** PR. SAN. MH (DOGHOUSE MH)
TOP= 749.04'
PR. 6" PVC INV. IN = 741.77'
PR. 6" PVC INV. IN = 741.77'
PR. 8" PVC INV. IN = 741.60'
(EX. 8" PVC INV. CL = 741.565')
EX. 8" PVC INV. IN = 741.58'
EX. 8" PVC INV. OUT= 741.55'
(APPROX. 0.03' DROP ACROSS MH)
- MH2** PR. SAN. MH
TOP= 750.52'
PR. 6" PVC INV. IN = 742.94'
PR. 6" PVC INV. IN = 742.77'
PR. 8" PVC INV. OUT= 742.52'
- MH3** PR. SAN. MH
TOP= 752.03'
PR. 6" PVC INV. IN = 744.19'
PR. 6" PVC INV. IN = 744.19'
PR. 8" PVC INV. OUT= 744.03'
- MxC** Ex. SAN. MH
TOP= 750.04'
PR. 6" PVC INV. IN = 742.90'
EX. 6" PVC INV. IN (east)= 742.74' (TO BE REMOVED)
EX. 6" PVC INV. IN (west)= 742.90' (TO BE REMOVED)
EX. 8" PVC INV. OUT= 742.30'

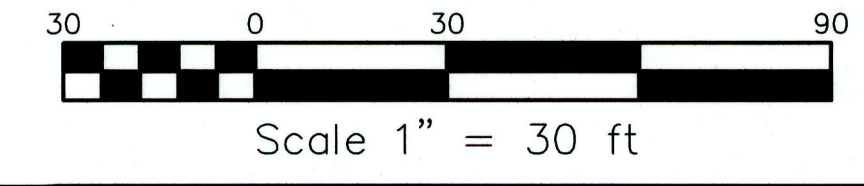
**SITE STORM SEWER SYSTEM:
PROPOSED STORM
STRUCTURES SUMMARY**

- A** PR. 30"x19" ES-1A
PR. 30"x19" INV. OUT=743.50
- A1** PR. DI-3B, L=6'
Top = 748.60
PR. 21" INV. IN = 743.90
PR. 30"x19" INV. OUT=743.80
- A2** PR. DI-3B, L=16'
Top = 749.00
PR. 18" INV. IN = 744.35
PR. 21" INV. OUT=744.10
- A3** PR. DI-3B, L=8'
Top = 749.60
PR. 15" INV. IN = 745.15
PR. 18" INV. OUT=744.90
- A4** PR. DI-3B, L=8'
Top = 749.80
PR. 15" INV. IN = 746.00
PR. 15" INV. OUT=745.90
- A5** PR. DI-3B, L=8'
Top = 750.50
PR. 15" INV. OUT=746.50
- B** PR. 15" ES-1
PR. 15" INV. OUT = 743.50
- B1** PR. DI-3B, L=6'
Top = 746.75
PR. 15" INV. IN = 743.75
PR. 15" INV. OUT=743.65
- B2** PR. DI-3B, L=16'
Top = 747.90
PR. 15" INV. OUT=744.40
- C** PR. 15" ES-1
PR. 15" INV. OUT = 743.50
- C1** PR. DI-3B, L=10'
Top = 748.00
PR. 15" INV. IN = 743.75
PR. 15" INV. OUT=743.65
- C2** PR. DI-3B, L=10'
Top = 749.00
PR. 15" INV. IN = 744.70
PR. 15" INV. OUT=744.50
- C3** PR. DI-3B, L=8'
Top = 749.90
PR. 15" INV. OUT=745.90



UTILITY LEGEND

	EX. WATER LINE
	PR. WATER LINE
	STORM SEWER LINE
	SANITARY SEWER LINE
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	OVERHEAD ELECTRIC AND TELEPHONE LINE



REVISIONS

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SITE UTILITY LAYOUT PLAN

PROJECT: OAKCREST BUILDERS, INC.
THE LOFTS AT CREEKSIDE
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3131 VALLEY AVENUE
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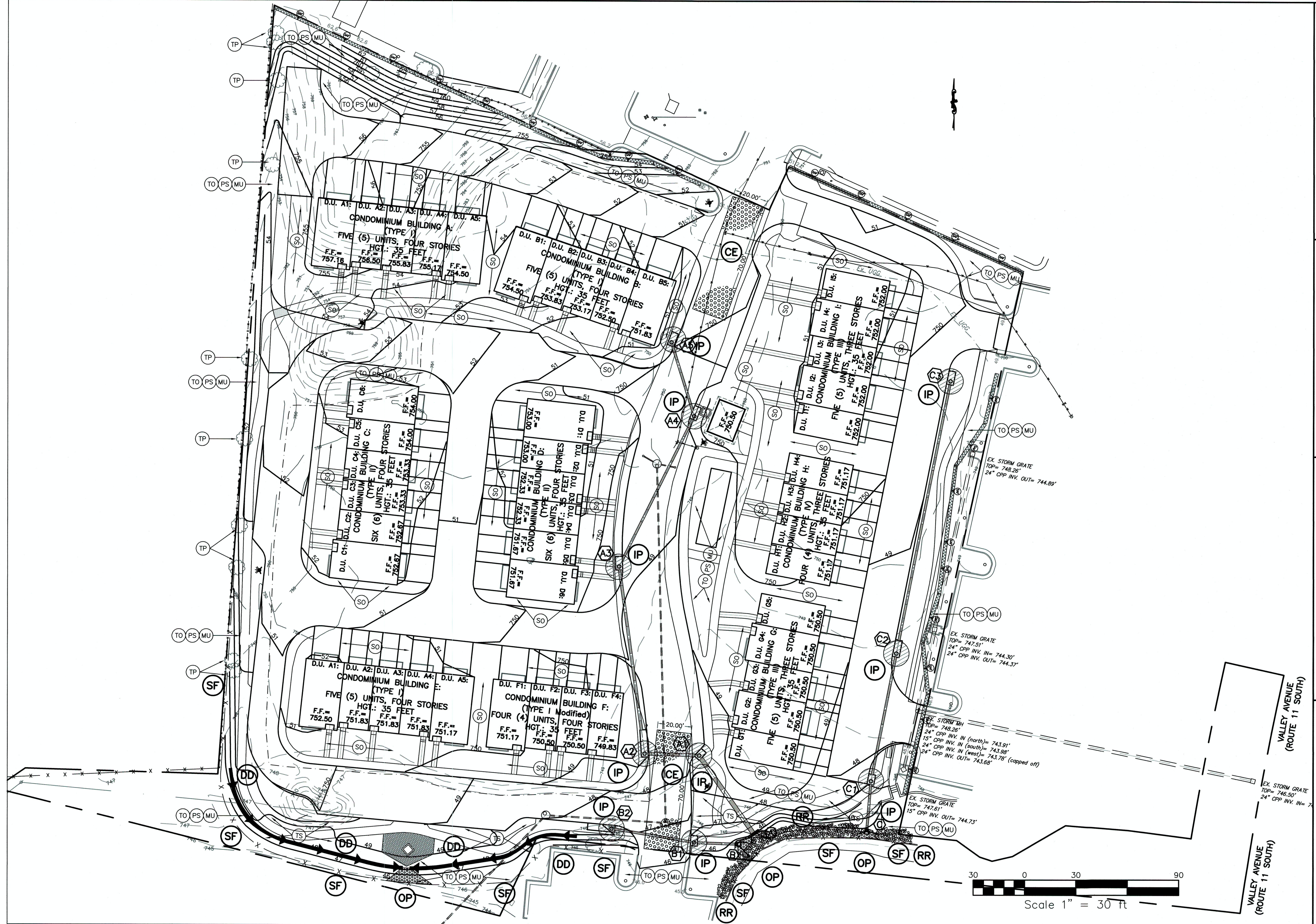


COMMONWEALTH OF VIRGINIA
TIMOTHY G. PAINTER
Lic. No. 018260
09/19/19
PROFESSIONAL ENGINEER

SURVEY: P-L PLC
DRAWN BY: TGP
SCALE: 1"=30.0'
SHEET: 5/20

EROSION & SEDIMENT CONTROL KEY

3.01 SAFETY FENCE	
3.02 TEMPORARY STONE CONSTRUCTION ENTRANCE	
3.05 SILT FENCE	
3.07 STORM DRAIN INLET PROTECTION	
3.09 TEMPORARY DIVERSION DIKE	
3.18 OUTLET PROTECTION	
3.19 RIPRAP	
3.30 TOPSOILING	
3.31 TEMPORARY SEEDING	
3.32 PERMANENT SEEDING	
3.33 SODDING	
3.35 MULCHING	
3.38 TREE PRESERVATION AND PROTECTION	

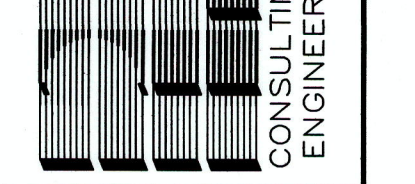


NO.	DATE	DESCRIPTION	BY

TITLE:
**SITE DEVELOPMENT PLAN:
 SITE EROSION AND SEDIMENT
 CONTROL PLAN**

PROJECT: **OAKCREST BUILDERS, INC.
 THE LOFTS AT CREEKSIDE
 CONDOMINIUM COMPLEX
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PAINTER-LEWIS, P.L.C.
 817 CEDAR CREEK GRADE, SUITE 120
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Timothy C. Painter
 PROFESSIONAL ENGINEER
 09/19/19

SURVEY: C.I.:
 P-L PLC 1'
 DRAWN BY: JOB NO.:
 TGP 1802043
 SCALE: DATE:
 1"=30.0' 09-09-19
 SHEET:

LANDSCAPE NOTES:

- Public Right-of-way Landscaped Area: None Required
- Street Trees: None Required
- Parking Lot Landscaping: (1) tree per 2000 sf of Off-Street Parking Area
Off-Street Parking Area: 54,481 sf
Trees Required: 54,481/2000 = 27.2 = 27 trees
Trees Proposed: 27
- Building Foundation Plantings: Foundation plantings have been provided along the front building facades of the proposed residences. (See the following Landscape Sheet)
- Buffers Required: An evergreen screening buffer is provided per the existing development proffers.
- The owner of the property shall maintain required landscaping in good condition and shall make reasonable provisions to protect landscaped areas from damage caused by vehicles, pedestrians, shopping carts, etc. Dead or dying vegetation shall be replaced per direction of the Administrator. Replacement shrubs shall be of a size consistent with that which would normally be expected based upon the specific species and the length of time elapsed since initial installation of said required landscaping elements. Replacement trees shall be 1/2" caliper larger for each year since initial installation of said required trees, except that no owner shall be required to replace any tree with another tree larger than five (5) inches in caliper.

LANDSCAPE INSTALLATION:

- Confirm the locations of any utilities above or below ground prior to commencing work. Contact the Landscape Architect in the event that utilities or any other structure conflicts with the layout shown on the plan.
- Verify the quantities shown on the plant list with totals indicated on the plan. Contact the Landscape Architect in the event that discrepancies exist. Supply unit prices to the Owner at time of bidding.
- All materials are subject to approval by the Owner or Owner's representative. Provide the Owner with a tag from each plant species and a list of the plant suppliers. Where any requirements are omitted from the Plant List, use plants which meet the normal requirements for the variety according to the American Association of Nurserymen.
- Plants shall be sound, healthy, vigorous, well branched, free of disease, insect eggs and larvae, and shall have adequate root systems.
- Sizes specified in the Plant List are minimum sizes against which the plants will be judged. Failure to meet minimum size on any plant will result in rejection of that plant.
- Groups of shrubs shall be placed in a continuous mulched bed with smooth, continuous edges as shown on the plan. All mulched beds shall be curvilinear in shape following the contour of the plant mass. Apply a minimum of 4 inches of mulch uniformly over beds. Trees located within four feet of any shrub bed shall share the same bed. Grade finished planting beds so as not to impede surface drainage.
- Locate trees a minimum of 3 feet from walls or walks, if possible.
- Stake and guy all trees according with standard practice and/or the suppliers recommendations. At a minimum, all deciduous trees shall be double-guyed with 72" hardwood stakes driven firmly into the ground. Secure tree to stakes with #9 galvanized wire guys with rubber hose connections. Stakes shall be 2" x 2" x 72".
- Use shredded hardwood bark mulch in all planting beds.
- Remove all tags, twine and containers from installed plants. Roll back burlap one third on all B&B plants.
- Plant substitutions are permitted with consent from the Landscape Architect.
- Prepare the soil in all bedding areas by mixing into the top six inches of soil one cubic yard of manure, peat and 10-6-4 granular fertilizer per 100 square feet of area. Remove any turf, weeds or other vegetation completely prior to installation.
- Plant all materials in their appropriate season. The Contractor shall guarantee all plant materials and workmanship for a period of one year from time of installation.
- All existing plant materials shall remain unless otherwise noted on the Site Plan.

UTILITY LEGEND

	EX. WATER LINE
	PR. WATER LINE
	STORM SEWER LINE
	SANITARY SEWER LINE
	GAS LINE
	UNDERGROUND ELECTRIC LINE
	OVERHEAD ELECTRIC AND TELEPHONE LINE



PARKING AREA PLANT LIST

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
AR	11	Acer rubrum 'Redpointe'	Redpointe Red Maple	5'-6' height	see plans
CV	2	Chionanthus virginicus	Fringetree	5'-6' height	see plans
GT	6	Gleditsia tricanthos inermis 'Skyline'	Skyline Honeylocust	2" Caliper	see plans
PO	8	Platanus occidentalis	American Sycamore	3" Caliper	see plans

ALL SIZES INDICATE PLANT HEIGHT OR SIZE AT TIME OF PLANTING

PROFFERED PROPERTY BUFFER PLANT LIST

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
JV	36	Juniperus virginiana	Eastern Redcedar	5' height	10' o.c.
TE	58	Thuja occidentalis 'Elegantissima'	Elegant Arborvitae	5' height	5' o.c.
TN	23	Thuja occidentalis 'Nigra'	Black Arborvitae	5' height	10' o.c.

ALL SIZES INDICATE PLANT HEIGHT OR SIZE AT TIME OF PLANTING

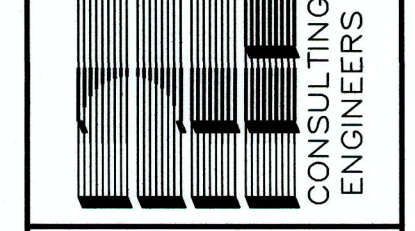
LUMINAIRE SCHEDULE

LABEL	QTY.	CATALOG NO.	DESCRIPTION	LAMP	HEIGHT
A	15	CSX1 LED	STD. POLE FIXTURE (SPA) with SHADED BACKGROUND, 60C LED, 120 MVOLT, TMS3	1-60C LED, Color Temp: 4000K (Cool), DARK BRONZE	25' POLE HEIGHT
B	2	CSX1 LED DOUBLE FIXTURE	with SHADED BACKGROUND, 60C LED, 120 MVOLT, TMS3	1-60C LED, Color Temp: 4000K (Cool), DARK BRONZE	25' POLE HEIGHT

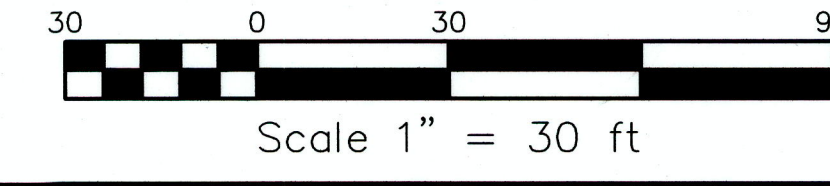
TITLE: **SITE DEVELOPMENT PLAN: SITE LANDSCAPING and LIGHTING & ILLUMINATION PLAN**

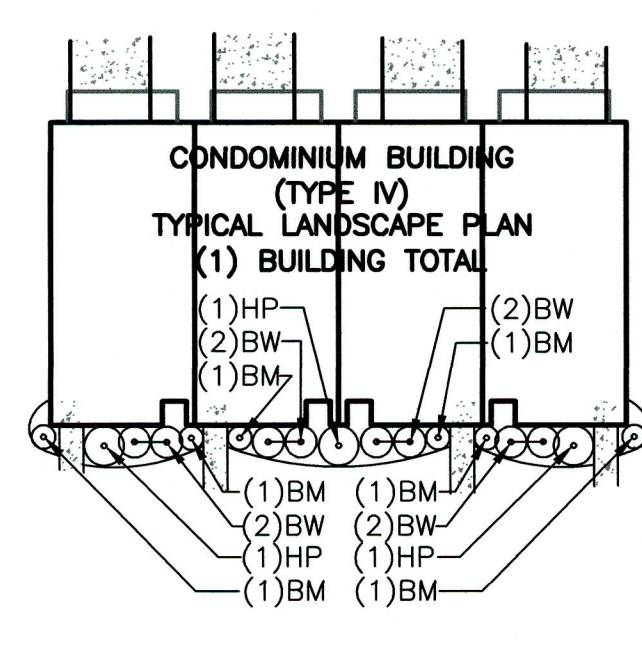
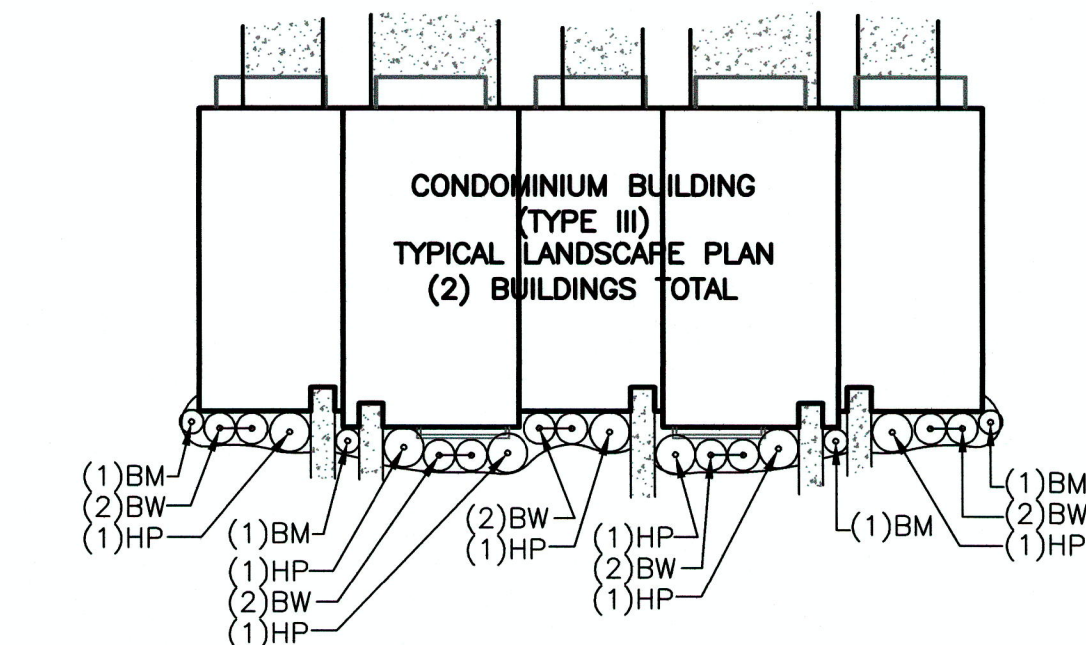
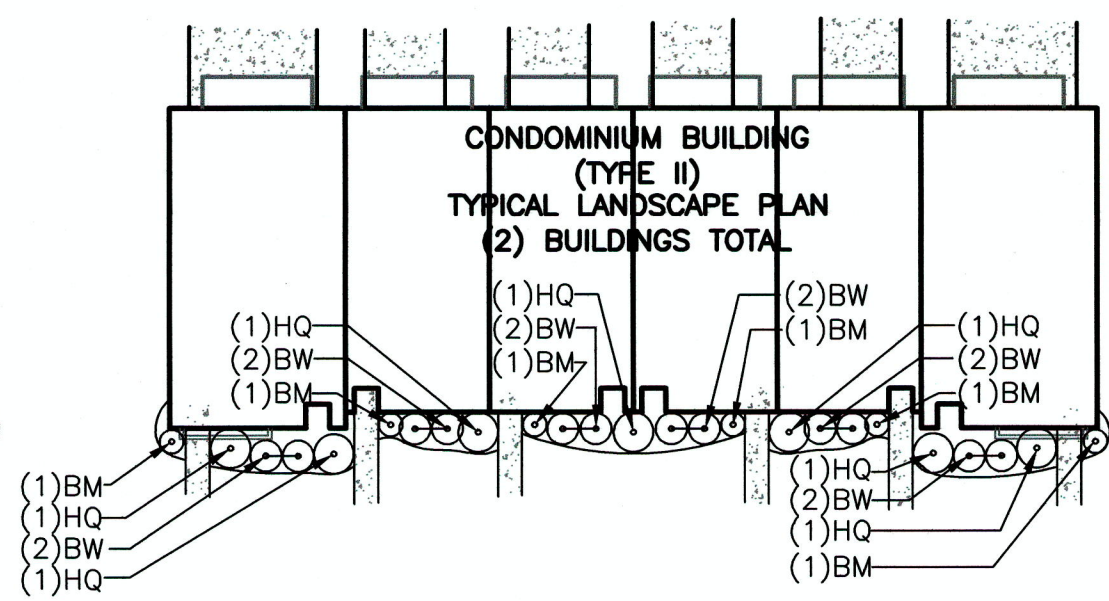
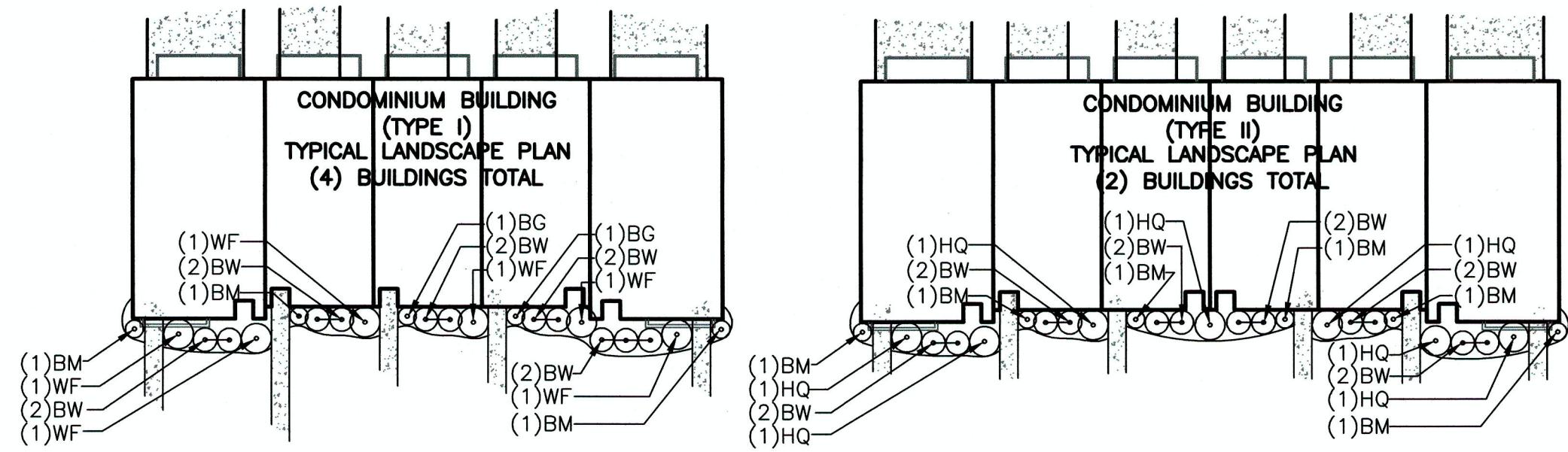
PROJECT: **OAKCREST BUILDERS, INC. THE LOFTS AT CREEKSIDE CONDOMINIUM COMPLEX 3131 VALLEY AVENUE (ROUTE 11 SOUTH) WINCHESTER, VIRGINIA 22601**

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SURVEY: P-L PLC C.I.: 1'
 DRAWN BY: TGP JOB NO.: 1802043
 SCALE: 1"=30.0' DATE: 09-09-19
 SHEET: 8/20





CONDOMINIUM FOUNDATION PLANT LIST (COMBINED TOTAL FOR ALL BUILDINGS)

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
BW	96	Buxus sinica var. insularis 'Wintergreen'	Wintergreen Boxwood	#3 container	4' o.c.
BM	46	Buxus 'Green Mountain'	Green Mountain Boxwood	#3 container	see plans
HP	17	Hydrangea paniculata 'Little Quickfire'	Little Quickfire Hydrangea	#3 container	see plans
HQ	14	Hydrangea quercifolia	Oakleaf Hydrangea	#5 container	see plans
WF	24	Weigela florida 'Variegata'	Variegated Weigela	#5 container	see plans

ALL SIZES INDICATE PLANT HEIGHT OR SIZE AT TIME OF PLANTING

* MIN. PLANTING HOLE DIMENSIONS SHALL BE 2 TIMES THE WIDTH AND 1 1/2 TIMES THE DEPTH OF THE ROOT BALL

* PRUNE OUT ALL DAMAGED, BROKEN, OR DEAD LIMBS PRIOR TO COMPLETION.

* CONTRACTOR TO REGRADE, SOD OR HYDROSEED AND STRAW MULCH ALL AREAS DISTURBED AS A RESULT OF THEIR WORK.

* (2) UPRIGHT STAKES TO BE USED ON TREES UP TO 12" HIGH. LARGER TREES TO BE GUYED.

RUBBER HOSE

2"x2" HARDWOOD GUY STAKE 2 PER TREE

12 GAUGE GALVANIZED WIRE-DOUBLE STRAND TWISTED

REMOVE SOIL AND MULCH AWAY FROM BASE OF TRUNK TO PREVENT ROTTING

3" MULCH

3" HIGH SAUCER MOUND AROUND TREE TO HOLD MOISTURE.

EXISTING GRADE

SOIL MIX

BACK FILL AROUND ROOT BALL TO A DEPTH 4" BELOW FINAL GRADE

COMPACTED MOUND TO PREVENT TREE FROM SETTLING - 6" MIN. HGT.

UPRIGHT STAKES EXTENDED TO FIRM BEARING

REMOVE TOP 1/3 OF ALL BURLAP & ROPE FROM ROOT BALL.

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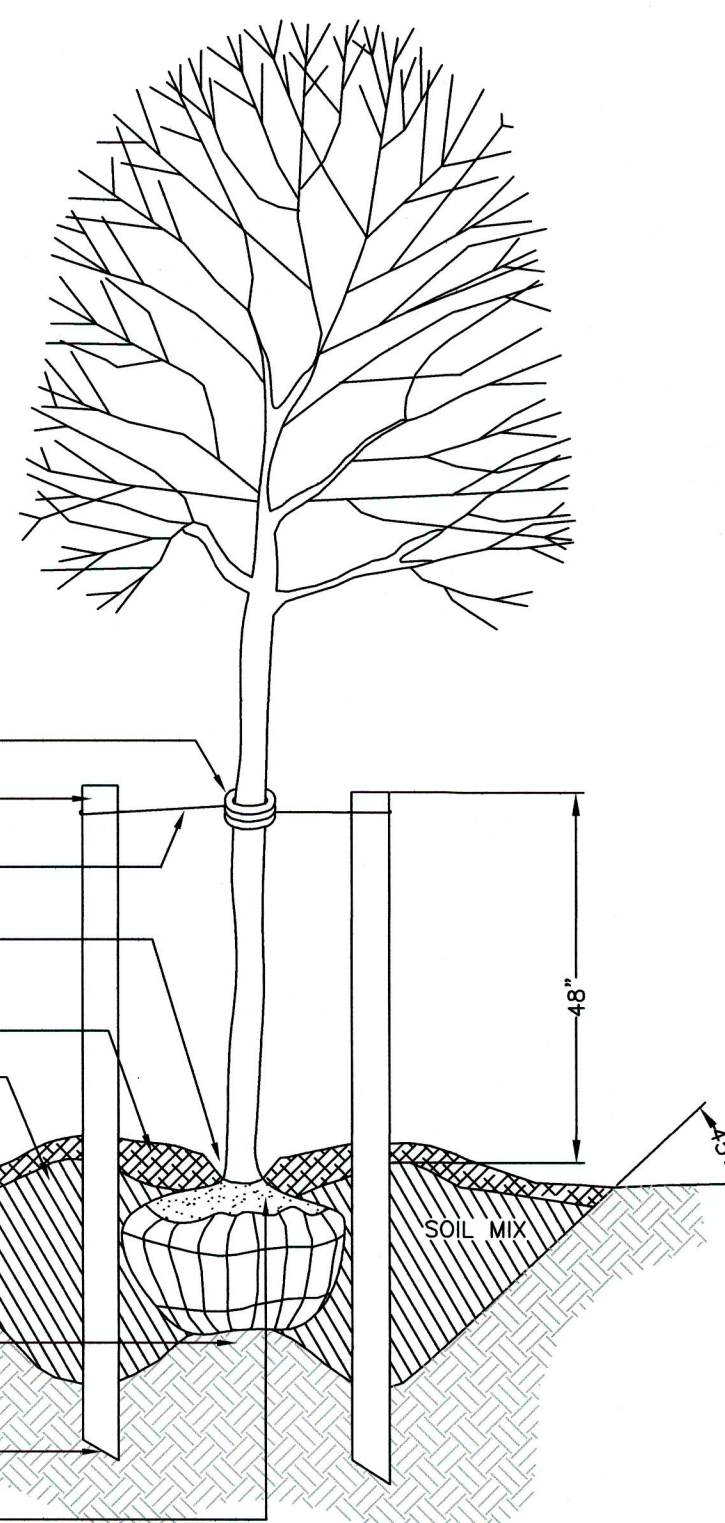
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TYPICAL TREE PLANTING SECTION NOT TO SCALE

* REMOVE EXISTING SOD LAYER OVER THE ENTIRE PLANTING BED AREA PRIOR TO PLANTING.

* PLANT SPACING VARIES (SEE PLANS AND PLANT LIST)

* BACK FILL AROUND ROOT BALL TO A DEPTH 4" BELOW FINAL GRADE

* COMPACT BACKFILL SOIL MIX IN 6" LIFTS TO ENSURE MAXIMUM STABILITY FOR PLANT MATERIAL.

* CONTRACTOR TO REGRADE, SOD OR HYDROSEED AND STRAW MULCH ALL AREAS DISTURBED AS A RESULT OF THEIR WORK.

* PRUNE OUT ALL DAMAGED, DISEASED, OR DEAD LIMBS PRIOR TO COMPLETION.

* COMPLETELY REMOVE ALL STRINGS, RIBBONS, AND TAGS FROM PLANT.

* MULCH TO BE 3" DEPTH

FINAL GRADE

REMOVE TOP 1/3 OF ALL BURLAP FABRIC AROUND ROOT BALL.

REMOVE TOP 1/3 OF ALL BURLAP FABRIC AROUND ROOT BALL.

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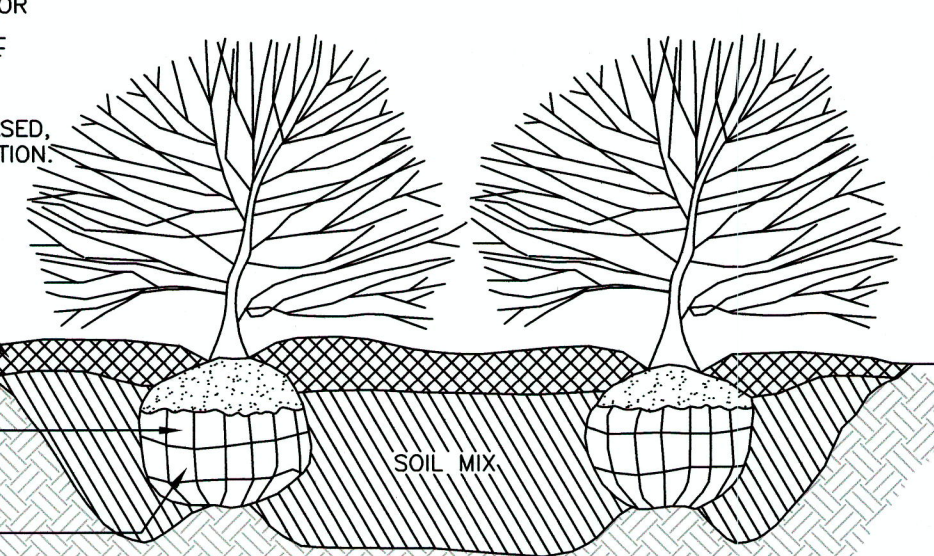
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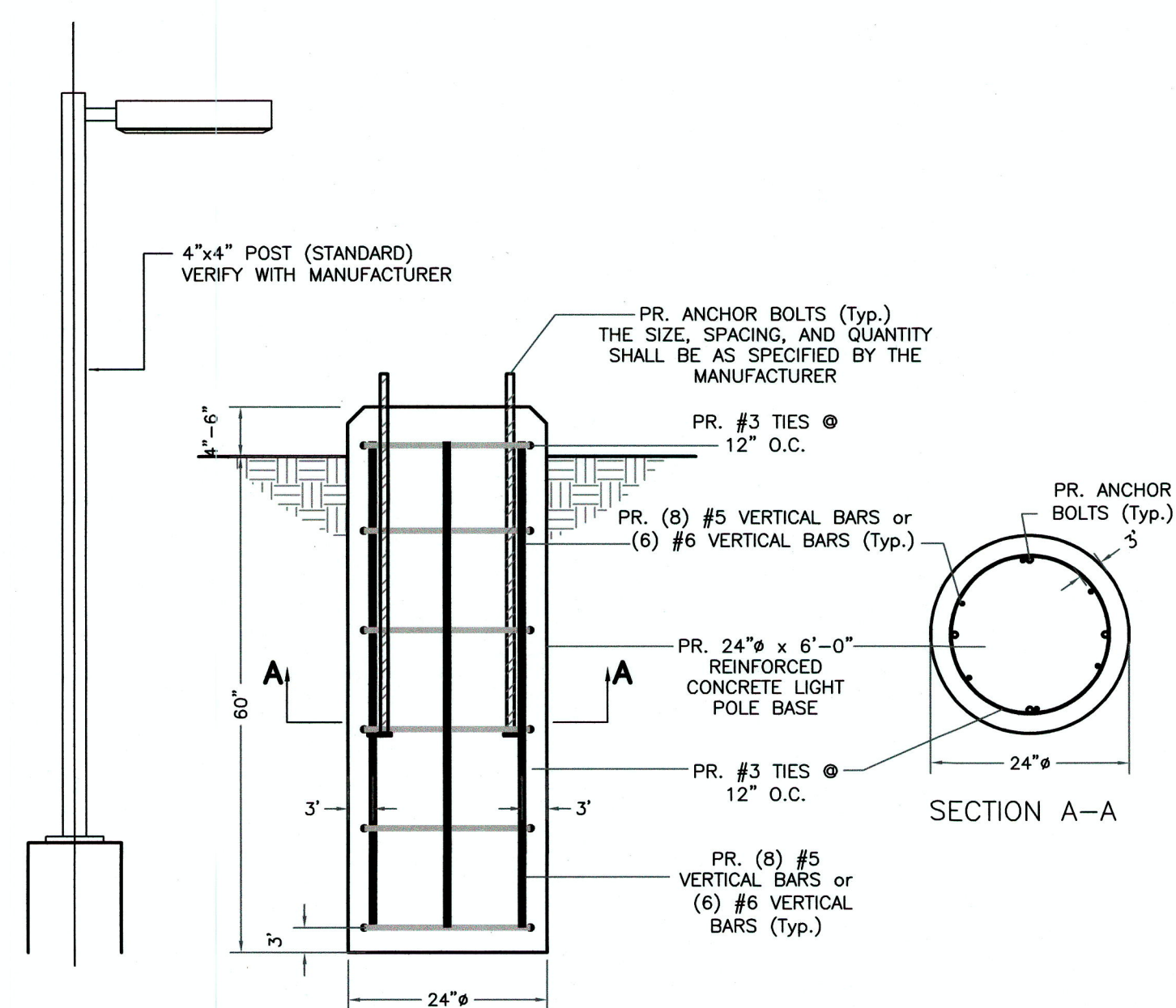
REMOVE TOP 1/3 OF ALL BURLAP FABRIC AROUND ROOT BALL.

REMOVE TOP 1/3 OF ALL BURLAP FABRIC AROUND ROOT BALL.

REMOVE TOP 1/3 OF ALL BURLAP FABRIC AROUND ROOT BALL.



TYPICAL SHRUB PLANTING SECTION NOT TO SCALE



NOTES:
 - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE (IBC) AND THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT.
 - THE CONCRETE SHALL A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAY CURING TIME.
 - THE STEEL REINFORCEMENT SHALL BE GRADE 60 STEEL (Fy=60,000 PSI).
 - LATERAL PASSIVE EARTH PRESSURE SHALL BE 275 PSF/FT DEPTH, MINIMUM.
 - THE FOUNDATION DESIGN HAS BEEN BASED ON A MAXIMUM POLE HEIGHT OF 25'.
 - THE LIGHT FIXTURES AND POLE DESIGN SHALL BE BY OTHERS. SEE THE SITE PLAN FOR LIGHT LOCATIONS.

SITE LIGHTING (PRIVATE DEVELOPMENT): STANDARD LIGHTPOLE BASE DETAIL N.T.S.

CSX1 LED LED Area Luminaire

Specifications:
 EPA: 0.7 f1
 Length: 23-1/2"
 Width: 18-1/2"
 Height: 5-7/8"
 Weight: 37 lbs (max)

Ordering Information: EXAMPLE: CSX1 LED 60C 1000 40K T3M MVOLT SPA DDBXD

Series	LED	Color	Temp	Beam	Mounting	Options	Finish
CSX1 LED	60C	1000	40K	T3M	MVOLT	SPA	DDBXD

LITHONIA LIGHTING

Ordering Information

Performance Data

Lumen Output

Temp	1000 mA	1500 mA	2000 mA	2500 mA	3000 mA	3500 mA	4000 mA
0°C	12,100	18,150	24,200	30,250	36,300	42,350	48,400
10°C	12,000	18,000	24,000	30,000	36,000	42,000	48,000
20°C	11,900	17,850	23,800	29,850	35,900	41,950	47,900
30°C	11,800	17,700	23,650	29,700	35,750	41,800	47,750
40°C	11,700	17,550	23,500	29,550	35,600	41,650	47,600

Lumen Ambient Temperature (LAT) Multipliers

Temp	0°C	10°C	20°C	30°C	40°C
0°C	1.00	0.99	0.98	0.97	0.96
10°C	0.99	0.98	0.97	0.96	0.95
20°C	0.98	0.97	0.96	0.95	0.94
30°C	0.97	0.96	0.95	0.94	0.93
40°C	0.96	0.95	0.94	0.93	0.92

Projected LED Lumen Maintenance

Hours	0	20,000	40,000	60,000
0%	1.00	0.94	0.89	0.83

Electrical Load

Current (A)	150V	208V	240V	277V	347V	480V
700	1.57	0.76	0.63	0.50	0.40	0.37
1000	2.09	1.08	0.89	0.70	0.54	0.50

Photometric Diagrams

LITHONIA LIGHTING

SITE LIGHTING (PRIVATE DEVELOPMENT): STANDARD 25' POLE LED AREA FIXTURE N.T.S.

LUMINAIRE SCHEDULE

LABEL	QTY.	CATALOG NO.	DESCRIPTION	LAMP	HEIGHT
A	15	CSX1 LED	STD. POLE FIXTURE (SPA) WITH SHADED BACKGROUND, 60C LED, 120 MVOLT, T3M	1-60C LED, Color Temp: 4000K (Cool), DARK BRONZE	25' POLE HEIGHT
B	2	CSX1 LED	DOUBLE FIXTURE STD. POLE FIXTURE (SPA) WITH SHADED BACKGROUND, 60C LED, 120 MVOLT, T3M	1-60C LED, Color Temp: 4000K (Cool), DARK BRONZE	25' POLE HEIGHT

STATISTICS

DESCRIPTION	SYMBOL	AVERAGE	MAXIMUM	MINIMUM	MAX./MIN.	AVG./MIN.
CALC. ZONE II	+	2.2 fc	12.6 fc	0.0 fc	N/A	N/A

NOTES: SITE LIGHTING
 - A FULL CUT-OFF VISOR MUST BE INSTALLED FOR ALL BUILDING MOUNTED LIGHTING TO PREVENT ILLUMINATION OFF-SITE.
 - ALL BUILDING MOUNTED FLOOD LIGHTS SHALL BE FULLY SHIELDED AND DOWNCAST, AS REQUIRED.
 - ALL SITE LIGHT POLES SHALL BE EQUIPPED WITH SUPPLEMENTAL OPAQUE SHIELDING ON THE RESIDENTIAL SIDE TO PREVENT ILLUMINATION AND LESSEN GLARE OFF-SITE.

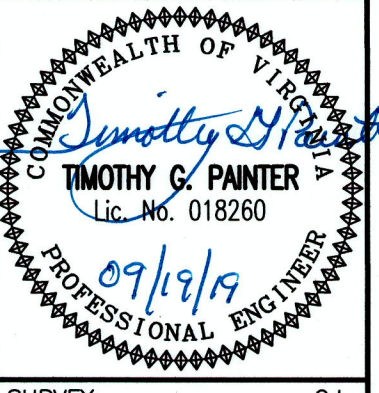
REVISIONS

NO.	DATE	DESCRIPTION	BY

TITLE: SITE DEVELOPMENT PLAN: SITE LANDSCAPING and LIGHTING DETAILS

PROJECT: OAKCREST BUILDERS, INC. THE LOFTS AT CREEKSIDE CONDOMINIUM COMPLEX 3131 VALLEY AVENUE (ROUTE 11 SOUTH) WINCHESTER, VIRGINIA 22601

PAINTER-LEWIS, P.L.C. 817 CEDAR CREEK GRADE, SUITE 120 WINCHESTER, VIRGINIA 22601 Telephone: (540) 662-5792 Fax: (540) 662-5793 Email: office@painterlewis.com



SURVEY: C.I. P-L PLC
 DRAWN BY: JOB NO. 1802043
 SCALE: DATE: 11-30-09
 SHEET: 09-09-19

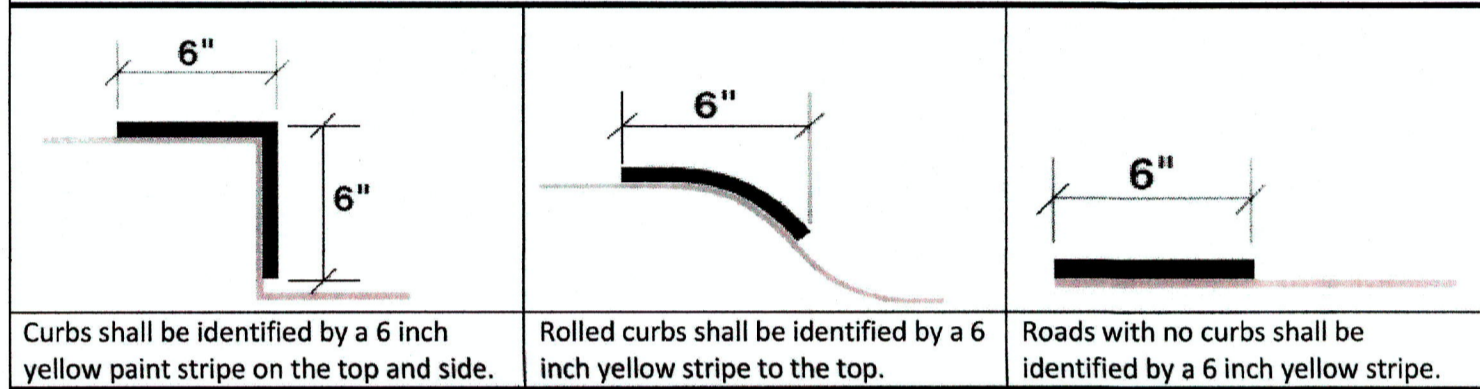
Fire Lane Marking Guidelines

D103.6 Signs. Where required by the fire code official, fire apparatus access roads shall be marked with permanent signs complying with the following specifications:

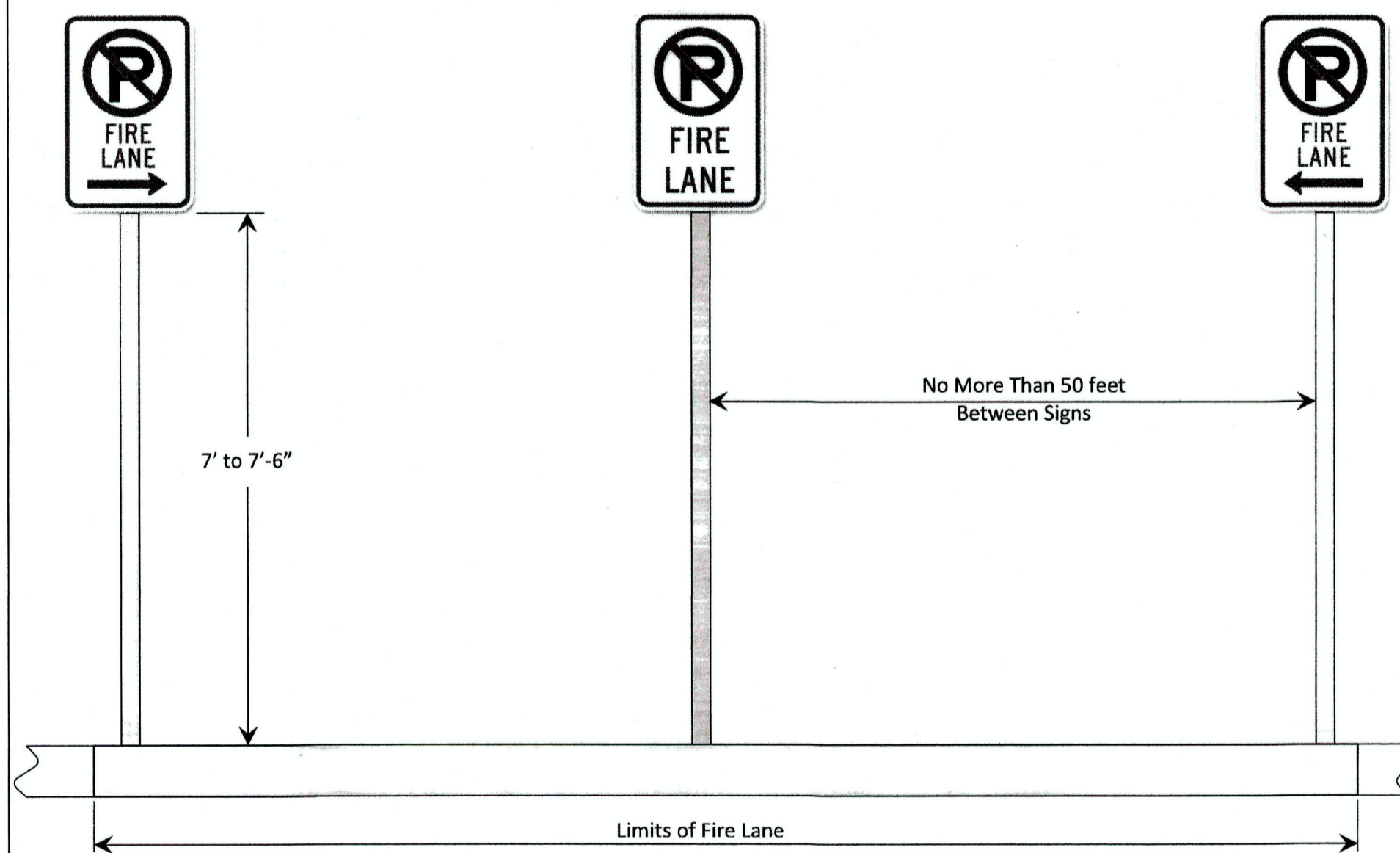
1. Metal construction 12 inches by 18 inches.
2. Red letters on engineer grade prismatic reflective white background with 3/8 inch red trim stripe around entire outer edge of sign.
3. Sign construction to be: the letter "P" in black inside a red circle with a red slash through the "P", below that to read "FIRE LANE" on separate lines. Signs delineating the beginning or ending of a fire lane shall have a solid filled arrow to point in the direction of the fire lane.
4. Signs are to be mounted with the bottom no less than 7' from the ground and no more than 7'6" to the ground, unless otherwise directed by the fire code official.
5. Posts for signs, when required, shall be metal and securely mounted, unless written permission for alternatives is obtained prior to installation from the Office of the Fire Marshal. Signs should be spaced as shown on approved plans. In long stretches, the maximum distance between signs is 50 feet.
6. Other special signs may be approved by the Office of the Fire Marshal.

SIGN TYPE "A"	SIGN TYPE "C"	SIGN TYPE "D"
Standard wording with an arrow on the bottom pointing to the right. One sign mounted parallel to the line of curbing or pavement edge at the end of the painted area.	Standard wording with an arrow on the bottom pointing to the left. One sign mounted parallel to the line of curbing or pavement edge at the end of the painted area.	Standard wording with no arrow. One sign mounted parallel to the line of curbing or pavement edge.

D103.7 Curb Designation. Where curbing is provided adjacent to the fire lane, it must be painted yellow within the limits of the fire lane. In areas without curbing a 6 inch yellow line shall be applied to the edge of the pavement. Paint shall be highway traffic grade.



Example of Fire Lane Markings



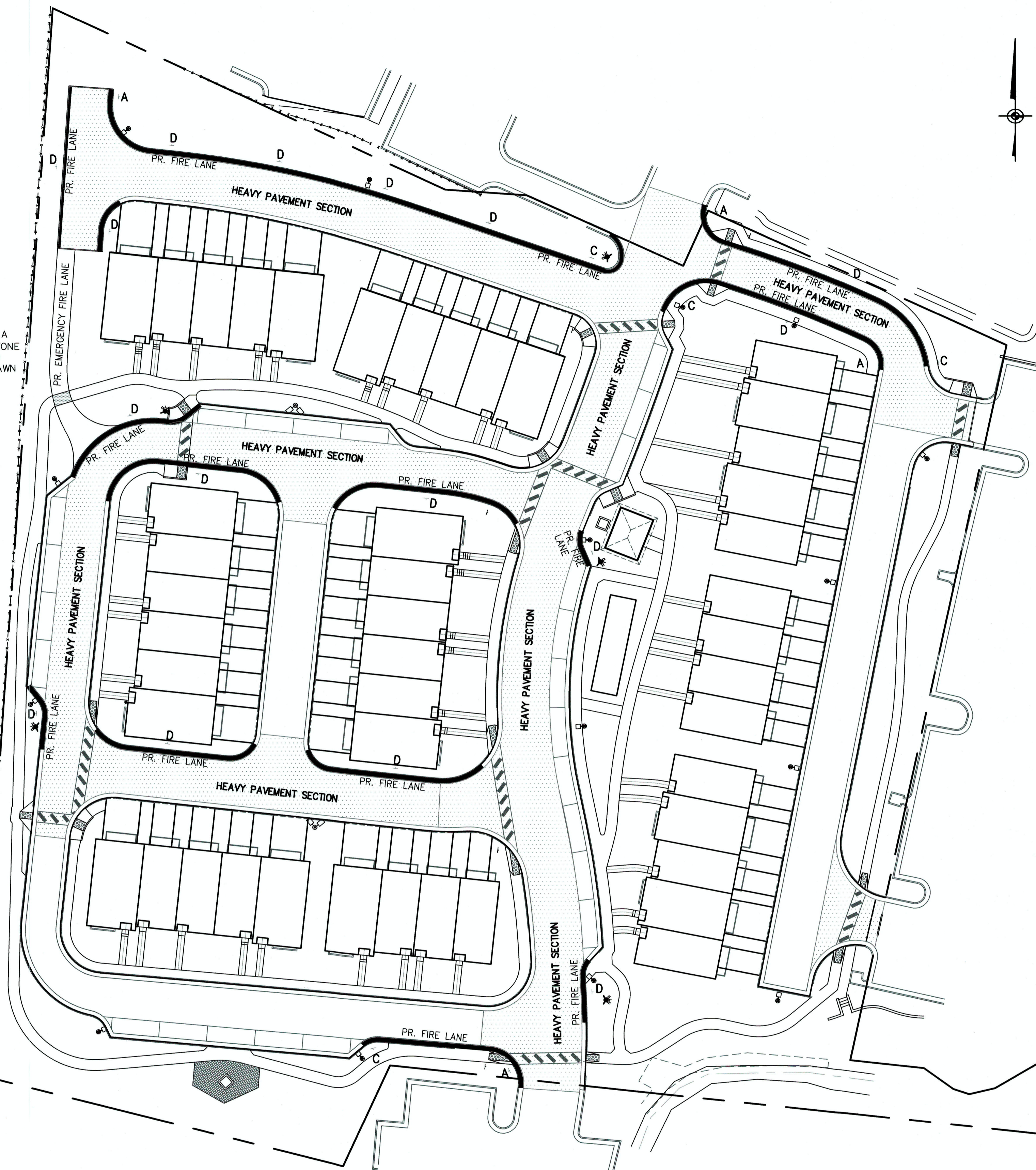
FIRE DEPARTMENT NOTATIONS:

- A C D FIRE DEPARTMENT SIGN LOCATIONS & TYPES SEE THIS SHEET FOR SIGN DETAILS
- [K] FIRE DEPARTMENT KNOX BOX LOCATIONS ("KNOX BOX PER FIRE MARSHAL SPECIFICATION")
- DESIGNATED FIRE LANE (YELLOW PAINTED CURB)

NOTES: FIRE DEPARTMENT:

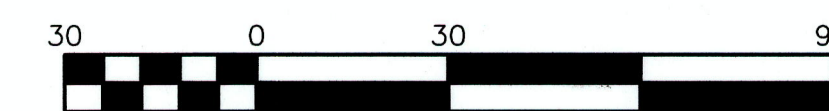
NO SHRUBS OR FOUNDATION PLANTINGS SHALL BE INSTALLED DIRECTLY IN FRONT OF OR THAT WILL BLOCK OR LIMIT ACCESS TO THE FIRE DEPARTMENT CONNECTION (FDC).

NOTE: EMERGENCY FIRE LANE THE EMERGENCY FIRE LANE SHALL HAVE A MINIMUM STONE BASE OF 8" OF 21-B STONE AND SHALL BE COVERED WITH A MINIMUM DEPTH OF TOPSOIL TO HAVE A GRASS LAWN APPEARANCE.



FIRE PROTECTION PLAN and HEAVY PAVEMENT AREA DESIGNATIONS

NOTE: PAVEMENT SECTIONS
 - ALL AREAS TO RECEIVE THE HEAVY PAVEMENT SECTION (SEE SHEET 20/20) HAVE BEEN DESIGNATED BY THE HATCHED ROADWAY AREAS, AS INDICATED ON THIS DRAWING.
 - ALL OTHER AREAS TO BE PAVED SHALL RECEIVE THE LIGHT PAVEMENT SECTION IN ACCORDANCE WITH PAVEMENT DETAIL ON SHEET 20/20.



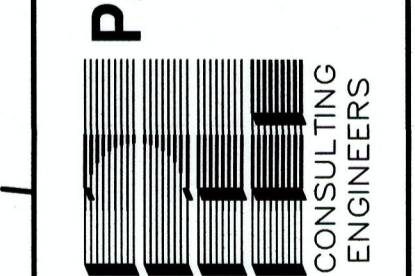
Scale 1" = 30 ft

NO.	DATE	DESCRIPTION	BY

TITLE:
**SITE DEVELOPMENT PLAN:
 FIRE PROTECTION PLAN and
 DETAILS**

PROJECT: **OAKCREST BUILDERS, INC.
 THE LOFTS AT CREEKSIDE
 CONDOMINIUM COMPLEX
 3131 VALLEY AVENUE
 (ROUTE 11 SOUTH)
 WINCHESTER, VIRGINIA 22601**

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PROFESSIONAL ENGINEER
 TIMOTHY G. PAINTER
 License No. 018260
 09/19/19

SURVEY: P-L PLC C.I.: 1'
 DRAWN BY: TGP JOB NO.: 1802043
 SCALE: 1"=30.0' DATE: 09-09-19
 SHEET:

SITE DRAINAGE AREAS TABULATION:

C2 INDICATES RELATED DRAINAGE AREAS

DRAINAGE AREA - SITE:
 AREA: 4.4449 Ac.
 C: 0.57
 Tc: 15 Min.
 Q10: 11.65 cfs
 (PRE-DEVELOPMENT)

DRAINAGE AREA - SITE:
 AREA: 4.4449 Ac.
 C: 0.61
 Tc: 15 Min.
 Q10: 12.47 cfs
 (POST-DEVELOPMENT)

DRAINAGE AREA A1:
 AREA: 0.360 Ac.
 C: 0.75
 Tc: 10 Min.
 Q10: 1.49 cfs

DRAINAGE AREA A2:
 AREA: 0.652 Ac.
 C: 0.85
 Tc: 10 Min.
 Q10: 3.05 cfs

DRAINAGE AREA A3:
 AREA: 0.437 Ac.
 C: 0.80
 Tc: 10 Min.
 Q10: 1.92 cfs

DRAINAGE AREA A4:
 AREA: 0.418 Ac.
 C: 0.80
 Tc: 10 Min.
 Q10: 1.84 cfs

DRAINAGE AREA A5:
 AREA: 0.467 Ac.
 C: 0.80
 Tc: 10 Min.
 Q10: 2.05 cfs

DRAINAGE AREA B1:
 AREA: 0.043 Ac.
 C: 0.90
 Tc: 5 Min.
 Q10: 0.26 cfs

DRAINAGE AREA B2:
 AREA: 0.720 Ac.
 C: 0.80
 Tc: 10 Min.
 Q10: 3.17 cfs

DRAINAGE AREA C1:
 AREA: 0.208 Ac.
 C: 0.85
 Tc: 10 Min.
 Q10: 0.97 cfs

DRAINAGE AREA C2:
 AREA: 0.276 Ac.
 C: 0.85
 Tc: 10 Min.
 Q10: 1.26 cfs

DRAINAGE AREA C3:
 AREA: 0.144 Ac.
 C: 0.90
 Tc: 5 Min.
 Q10: 0.89 cfs

SITE STORM SEWER SYSTEM: PROPOSED STORM STRUCTURES SUMMARY

- A** PR. 30"x19" ES-1A
PR. 30"x19" INV. OUT=743.50
- A1** PR. DI-3B, L=6'
Top = 748.60
PR. 21" INV. IN = 743.90
PR. 30"x19" INV. OUT=743.80
- A2** PR. DI-3B, L=16'
Top = 749.00
PR. 18" INV. IN = 744.35
PR. 21" INV. OUT=744.10
- A3** PR. DI-3B, L=8'
Top = 749.60
PR. 15" INV. IN = 745.15
PR. 18" INV. OUT=744.90

- A4** PR. DI-3B, L=8'
Top = 749.80
PR. 15" INV. IN = 746.00
PR. 15" INV. OUT=745.90
- A5** PR. DI-3B, L=8'
Top = 750.50
PR. 15" INV. OUT=746.50

- B** PR. 15" ES-1
PR. 15" INV. OUT = 743.50
- B1** PR. DI-3B, L=6'
Top = 746.75
PR. 15" INV. IN = 743.75
PR. 15" INV. OUT=743.65
- B2** PR. DI-3B, L=16'
Top = 747.90
PR. 15" INV. OUT=744.40

- C** PR. 15" ES-1
PR. 15" INV. OUT = 743.50
- C1** PR. DI-3B, L=10'
Top = 748.00
PR. 15" INV. IN = 743.75
PR. 15" INV. OUT=743.65
- C2** PR. DI-3B, L=10'
Top = 749.00
PR. 15" INV. IN = 744.70
PR. 15" INV. OUT=744.50
- C3** PR. DI-3B, L=8'
Top = 749.90
PR. 15" INV. OUT=745.90

UTILITY LEGEND

	EX. WATER LINE
	PR. WATER LINE
	STORM SEWER LINE
	SANITARY SEWER LINE
	GAS LINE
	UNDERGROUND ELECTRIC LINE
	OVERHEAD ELECTRIC AND TELEPHONE LINE

NOTE: STORM WATER MANAGEMENT REQUIREMENTS

- THIS PROJECT SHALL BE CONSTRUCTED ON A SITE THAT WAS ORIGINALLY PROPOSED TO BE DEVELOPED AS A COMMERCIAL RETAIL COMPLEX. IT IS BEING CONSIDERED A REDEVELOPMENT SITE BECAUSE OF THE EXISTING SITE IMPROVEMENTS THAT ARE CURRENTLY IN PLACE AND THE PREVIOUS LEVEL OF DISTURBANCE THAT HAS OCCURRED OVER THE YEARS IN THIS AREA AND ON SITE.

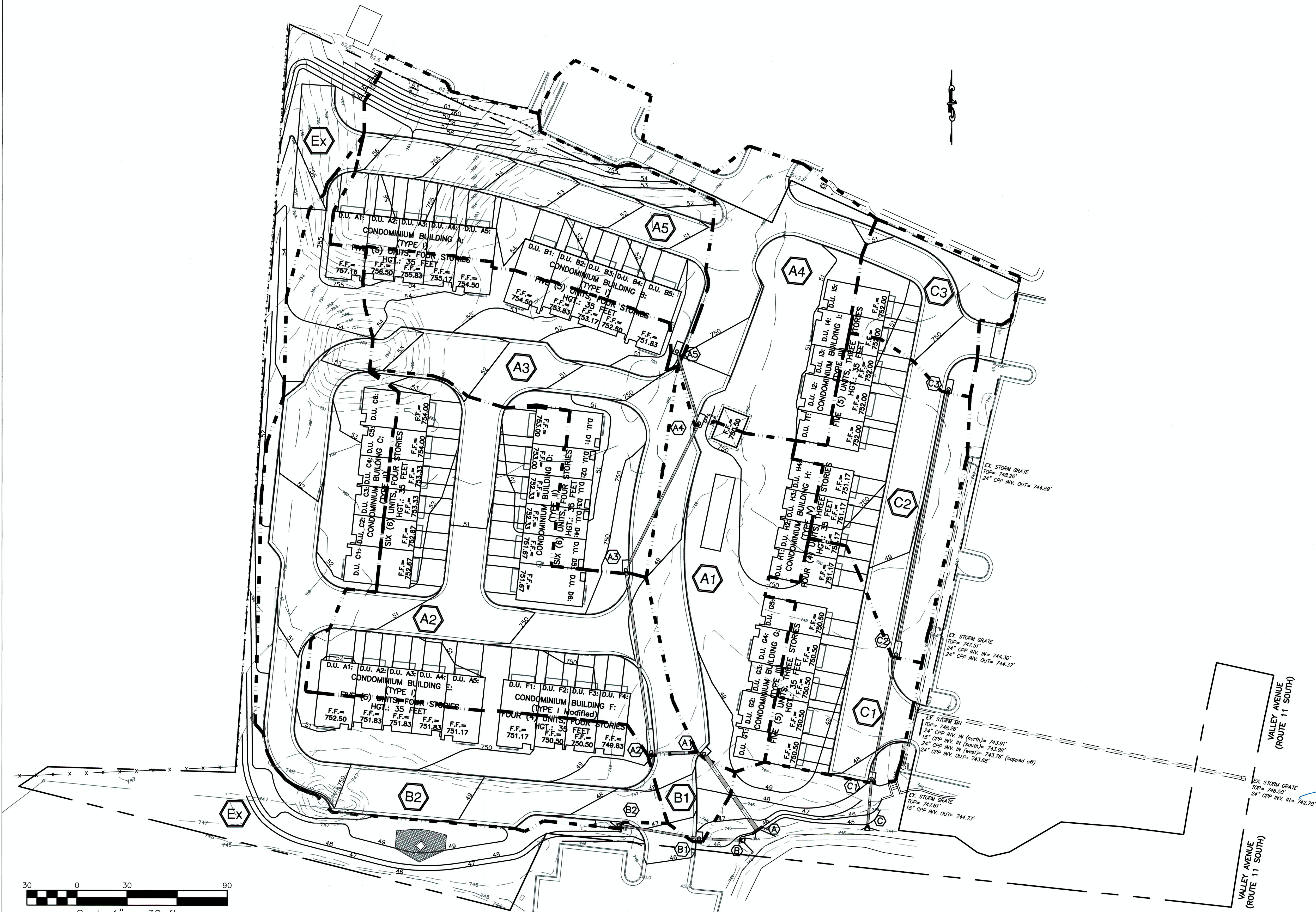
- THE PARCEL IS LOCATED ADJACENT TO THE HOGE RUN FLOOD PLAIN WHICH CONTROLS 1.7 SQUARE MILES (1088 ACRES) OF TRIBUTARY AREA. THIS PARCEL IS 4.4449 ACRES WHICH IS 0.409% OF THE TOTAL WATERSHED.

- STORM WATER MANAGEMENT IS NOT REQUIRED BECAUSE THE POST-DEVELOPED FLOW EXCEEDS THE PRE-DEVELOPED CONDITION BY ONLY 0.82 CFS (SEE ABOVE) FOR THE 10 YEAR STORM WHICH SUBSTANTIALLY LESS THAN THE TRIBUTARY FLOW. ADDITIONALLY, THE TRIBUTARY AREA OF THIS SITE IS LESS THAN 1.0% OF THE TOTAL CONTRIBUTING WATERSHED, SO, BY LAW, NO STORM WATER MANAGEMENT IS REQUIRED.

- AN ADEQUATE CHANNEL CONSISTING OF A PROPOSED STORM SEWER SYSTEM, IN AND THROUGH THIS SITE, HAS BEEN DESIGNED TO CONTROL THE 2 YR AND 10 YR DESIGN STORM EVENTS. THIS SYSTEM SHALL CONTROL AND CONVEY THE STORM WATER TO THE EXISTING ADEQUATE CHANNEL LOCATED AT THE SOUTH OF THIS PARCEL WHICH IS THE HOGE RUN STREAM CHANNEL.

- THESE FACTORS AND THIS CRITERIA DO NOT REQUIRE THE INSTALLATION OF A STORM WATER MANAGEMENT SYSTEM; AND THEREFORE, NO MEASURES ARE PROPOSED FOR THIS DEVELOPMENT.

- THE STORM WATER QUALITY REQUIREMENTS SHALL BE SATISFIED BY THE PURCHASE OF THE REQUIRED NUMBER OF NUTRIENT CREDITS FROM A CERTIFIED NUTRIENT BANK.

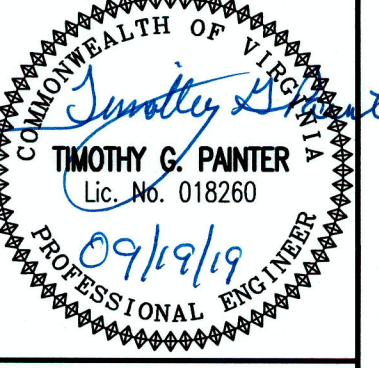


NO.	DATE	DESCRIPTION	BY

TITLE:
**SITE DEVELOPMENT PLAN:
 SITE DRAINAGE DIVIDES PLAN**

PROJECT: **OAKCREST BUILDERS, INC.
 THE LOFTS AT CREEKSIDE
 CONDOMINIUM COMPLEX
 3131 VALLEY AVENUE
 (ROUTE 11 SOUTH)
 WINCHESTER, VIRGINIA 22601**

PAINTER-LEWIS, P.L.C.
 817 CEDAR CREEK GRADE, SUITE 120
 WINCHESTER, VIRGINIA 22601
 Telephone: (540) 662-5792
 Facsimile: (540) 662-5793
 Email: office@painterlewis.com



SURVEY:	C.I.:
P-L PLC	1"
DRAWN BY:	JOB NO.:
TGP	1802043
SCALE:	DATE:
1"=30.0'	09-09-19
SHEET:	

DEQ Virginia Runoff Reduction Method Re-Development Compliance Spreadsheet - Version 3.0

2011 BMP Standards and Specifications 2013 Draft BMP Standards and Specifications

Project Name: OakCrest Builders, The Lofts at Creekside
 Date: 9-Sep-19

Linear Development Project? No

Site Information

Post-Development Project (Treatment Volume and Loads)

Enter Total Disturbed Area (acres) = 4.45

Check: BMP Design Specifications List: 2013 Draft Stds & Specs
 Linear project? No
 Land cover areas entered correctly?
 Total disturbed area entered?

Pre-Development Land Cover (acres)	A Soils	B Soils	C Soils	D Soils	Totals
Forest/Open Space (acres) - undisturbed, protected forest/open space or reforested land	0.00	0.00	0.00	0.00	0.00
Managed Turf (acres) - disturbed, graded for yards or other turf to be mowed/managed	1.57	1.57	1.57	1.57	1.57
Impervious Cover (acres)	2.88	2.88	2.88	2.88	2.88
Totals	4.45	4.45	4.45	4.45	4.45

Post-Development Land Cover (acres)	A Soils	B Soils	C Soils	D Soils	Totals
Forest/Open Space (acres) - undisturbed, protected forest/open space or reforested land	0.00	0.00	0.00	0.00	0.00
Managed Turf (acres) - disturbed, graded for yards or other turf to be mowed/managed	1.86	1.86	1.86	1.86	1.86
Impervious Cover (acres)	2.59	2.59	2.59	2.59	2.59
Area Check	OK	OK	OK	OK	OK

Runoff Coefficients (Rv)	A Soils	B Soils	C Soils	D Soils
Forest/Open Space	0.02	0.03	0.04	0.05
Managed Turf	0.25	0.20	0.22	0.25
Impervious Cover	0.95	0.95	0.95	0.95

Constants	Value
Annual Rainfall (inches)	43
Topsoil Depth (inches)	1.00
Total Phosphorus (TP) EMC (mg/L)	0.25
Total Nitrogen (TN) EMC (mg/L)	1.86
Target TP Load (lb/acre/yr)	0.41
TP (unless correction factor)	0.30

Land Cover Summary - PRE-REDEVELOPMENT	Land Cover Summary-Post (Final)	Land Cover Summary-Post (Post-Development & New Impervious)
Forest/Open Space (acres)	0.00	0.00
Managed Turf (acres)	1.57	1.86
Impervious Cover (acres)	2.88	2.59
Total Site Area (acres)	4.45	4.45
Site Rv	0.69	0.65

Treatment Volume and Nutrient Load	Pre-Development	Post-Development
Pre-Development Treatment Volume (acre-ft)	0.2564	0.2564
Pre-Development Treatment Volume (cubic feet)	11,168	11,168
Pre-Development TP Load (lb/yr)	7.02	7.02
Pre-Development TP Load per acre (lb/acre/yr)	1.58	1.58
Baseline TP Load (lb/yr) (0.41 lb/acre/yr applied to pre-redevelopment area excluding previous land proposed for new impervious cover)	1.82	

Adjusted Land Cover Summary: Pre-Development land cover minus previous land cover (forest/open space or managed turf) acreage proposed for new impervious cover.

Adjusted total acreage is consistent with Post-Development acreage (minus acreage of new impervious cover).

Column 1 shows load reduction requirement for new impervious cover based on new development load limit, 0.41 lb/acre/yr.

Post-Development Requirement for Site Area	TP Load Reduction Required (lb/yr)
	0.93

Nitrogen Loads (Informational Purposes Only)	Pre-Development TN Load (lb/yr)	Final Post-Development TN Load (Post-Development & New Impervious) (lb/yr)
	50.20	46.79

Drainage Area A

Drainage Area A Land Cover (acres)	A Soils	B Soils	C Soils	D Soils	Totals	Land Cover Rv
Forest/Open Space (acres)	0.00	0.00	0.00	0.00	0.00	0.00
Managed Turf (acres)	1.86	1.86	1.86	1.86	1.86	0.22
Impervious Cover (acres)	2.59	2.59	2.59	2.59	2.59	0.95
Total	4.45	4.45	4.45	4.45	4.45	0.45

Total Phosphorus Available for Removal in D.A. A (lb/yr) = 6.54
 Post-Development Treatment Volume in D.A. A (ft³) = 10,410

Stormwater Best Management Practices (RR = Runoff Reduction)

Practice	Runoff Reduction Credit (%)	Managed Turf Credit Area (acres)	Impervious Cover Credit Area (acres)	Volume from Upstream Practice (ft³)	Runoff Reduction (ft³)	Remaining Runoff Volume (ft³)	Total BMP Treatment Volume (ft³)	Phosphorus Removal Efficiency (%)	Phosphorus Load from Upstream Practice (lb)	Unretained Phosphorus Load to Practice (lb)	Phosphorus Removed by Practice (lb)	Remaining Phosphorus Load (lb)	Downstream Practice to be Employed
1. Vegetated Buffer (1)	10	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
2. Roofing Disconnection (RR)	10	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
3. Permeable Paving (RR)	10	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
4. Grass Channel (RR)	10	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
5. Dry Swale (RR)	10	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
6. Bio-retention (RR)	10	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
7. Infiltration (RR)	10	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
8. Extended Detention Pond (RR)	10	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
9. Shearflow to Filter (Open Space) (RR)	10	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
10. Wet Swale (RR)	10	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
11. Filtering Practices (RR)	10	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
12. Constructed Wetland (RR)	10	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
13. Wet Ponds (RR)	10	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
14. Manufactured Treatment Devices (RR)	10	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	

TOTAL IMPERVIOUS COVER TREATED (in) = 0.00
 TOTAL MANAGED TURF AREA TREATED (in) = 0.00
 TOTAL RUNOFF REDUCTION IN D.A. A (ft³) = 0.00
 TOTAL PHOSPHORUS REMOVED WITH RUNOFF REDUCTION PRACTICES IN D.A. A (lb/yr) = 0.00
 TOTAL PHOSPHORUS REMAINING AFTER APPLYING BMP LOAD REDUCTIONS IN D.A. A (lb/yr) = 6.54

SEE WATER QUALITY COMPLIANCE TAB FOR SITE COMPLIANCE CALCULATIONS

TOTAL PHOSPHORUS AVAILABLE FOR REMOVAL IN D.A. A (lb/yr) = 6.54
 TOTAL PHOSPHORUS REMOVED WITH RUNOFF REDUCTION PRACTICES IN D.A. A (lb/yr) = 0.00
 TOTAL PHOSPHORUS REMAINING AFTER APPLYING BMP LOAD REDUCTIONS IN D.A. A (lb/yr) = 6.54

TOTAL NITROGEN REMOVED WITH RUNOFF REDUCTION PRACTICES IN D.A. A (lb/yr) = 0.00
 NITROGEN REMOVED WITHOUT RUNOFF REDUCTION PRACTICES IN D.A. A (lb/yr) = 0.00
 TOTAL NITROGEN REMOVED IN D.A. A (lb/yr) = 0.00

REVISIONS

NO.	DATE	DESCRIPTION

TITLE: SITE DEVELOPMENT PLAN: STORM WATER QUALITY CALCULATION SPREADSHEETS

PROJECT: OAKCREST BUILDERS, INC. THE LOFTS AT CREEKSIDE CONDOMINIUM COMPLEX 3131 VALLEY AVENUE (ROUTE 11 SOUTH) WINCHESTER, VIRGINIA 22601

PAINTER-LEWIS, P.L.C.
 817 CEDAR CREEK GRADE, SUITE 120
 WINCHESTER, VIRGINIA 22601
 Telephone: (540) 662-5792
 Facsimile: (540) 662-5793
 Email: office@painterlewis.com

CONSULTING ENGINEERS

Professional Engineer Seal: Timothy G. Painter, License No. 018260, dated 09/19/19

SURVEY: P-L PLC C.I.: 1'
 DRAWN BY: TGP JOB NO.: 1802043
 SCALE: 1"=30.0' DATE: 09-09-19
 SHEET: 12/20

Site Results (Water Quality Compliance)						
Area Checks						
FOREST/OPEN SPACE (ac)	D.A. A	D.A. B	D.A. C	D.A. D	D.A. E	AREA CHECK
IMPERVIOUS COVER (ac)	2.59	0.00	0.00	0.00	0.00	OK
IMPERVIOUS COVER TREATED (ac)	0.00	0.00	0.00	0.00	0.00	OK
MANAGED TURF AREA (ac)	1.86	0.00	0.00	0.00	0.00	OK
MANAGED TURF AREA TREATED (ac)	0.00	0.00	0.00	0.00	0.00	OK
AREA CHECK	OK	OK	OK	OK	OK	
Site Treatment Volume (ft³)						
	10,410					
Runoff Reduction Volume and TP By Drainage Area						
	D.A. A	D.A. B	D.A. C	D.A. D	D.A. E	TOTAL
RUNOFF REDUCTION VOLUME ACHIEVED (ft ³)	0	0	0	0	0	0
TP LOAD AVAILABLE FOR REMOVAL (lb/yr)	6.54	0.00	0.00	0.00	0.00	6.54
TP LOAD REDUCTION ACHIEVED (lb/yr)	0.00	0.00	0.00	0.00	0.00	0.00
TP LOAD REMAINING (lb/yr)	6.54	0.00	0.00	0.00	0.00	6.54
NITROGEN LOAD REDUCTION ACHIEVED (lb/yr)						
	0.00					
Total Phosphorus						
FINAL POST-DEVELOPMENT TP LOAD (lb/yr)	6.54					
TP LOAD REDUCTION REQUIRED (lb/yr)	0.93					
TP LOAD REDUCTION ACHIEVED (lb/yr)	0.00					
TP LOAD REMAINING (lb/yr)	6.54					
REMAINING TP LOAD REDUCTION REQUIRED (lb/yr):	0.93					
Total Nitrogen (For Information Purposes)						
POST-DEVELOPMENT LOAD (lb/yr)	46.79					
NITROGEN LOAD REDUCTION ACHIEVED (lb/yr)	0.00					
REMAINING POST-DEVELOPMENT NITROGEN LOAD (lb/yr)	46.79					

Virginia Runoff Reduction Method Worksheet

DEQ Virginia Runoff Reduction Method Re-Development Compliance Spreadsheet - Version 3.0

BMP Design Specifications List: 2013 Draft Side & Specs

Site Summary

Total Rainfall (in):	43
Total Disturbed Acreage:	4.45

Site Land Cover Summary

Pre-Development Land Cover (acres)

	A Soils	B Soils	C Soils	D Soils	Totals	% of Total
Forest/Open (acres)	0.00	0.00	0.00	0.00	0.00	0
Managed Turf (acres)	0.00	0.00	1.86	0.00	1.86	35
Impervious Cover (acres)	0.00	0.00	2.88	0.00	2.88	65
					4.45	100

Post-Development Land Cover (acres)

	A Soils	B Soils	C Soils	D Soils	Totals	% of Total
Forest/Open (acres)	0.00	0.00	0.00	0.00	0.00	0
Managed Turf (acres)	0.00	0.00	1.86	0.00	1.86	42
Impervious Cover (acres)	0.00	0.00	3.59	0.00	3.59	58
					4.45	100

Site Tn and Land Cover Nutrient Loads

	Final Post-Development (Post-ReDevelopment & New Impervious)	Post-ReDevelopment	Post-Development (New Impervious)	Adjusted Pre-Development	Pre-Development TP Load per acre (lb/acre/yr)	Final Post-Development TP Load per acre (lb/acre/yr)	Post-Development TP Load per acre (lb/acre/yr)
Site Tn	0.65	0.65	---	0.69	1.58	1.47	1.47
Treatment Volume (ft ³)	10,410	10,410	---	11,168			
TP Load (lb/yr)	6.54	6.54	---	7.02			

Total TP Load Reduction Required (lb/yr): 0.93

Total TP Load Reduction Achieved (lb/yr): 0.00

Total TN Load (lb/yr): 46.79

Site Compliance Summary

Maximum % Reduction Required Below Pre-Development Load	20%
---	-----

Total Runoff Volume Reduction (ft ³)	0
Total TP Load Reduction Achieved (lb/yr)	0.00
Total TN Load Reduction Achieved (lb/yr)	0.00
Remaining Post-Development TP Load (lb/yr)	6.54
Remaining TP Load Reduction (lb/yr) Required	0.93

Drainage Area Summary

	D.A. A	D.A. B	D.A. C	D.A. D	D.A. E	Total
Forest/Open (acres)	0.00	0.00	0.00	0.00	0.00	0.00
Managed Turf (acres)	1.86	0.00	0.00	0.00	0.00	1.86
Impervious Cover (acres)	2.59	0.00	0.00	0.00	0.00	2.59
Total Area (acres)	4.45	0.00	0.00	0.00	0.00	4.45

Drainage Area Compliance Summary

	D.A. A	D.A. B	D.A. C	D.A. D	D.A. E	Total
TP Load Reduced (lb/yr)	0.00	0.00	0.00	0.00	0.00	0.00
TN Load Reduced (lb/yr)	0.00	0.00	0.00	0.00	0.00	0.00

Drainage Area A Summary

Land Cover Summary

	A Soils	B Soils	C Soils	D Soils	Total	% of Total
Forest/Open (acres)	0.00	0.00	0.00	0.00	0.00	0
Managed Turf (acres)	0.00	0.00	1.86	0.00	1.86	42
Impervious Cover (acres)	0.00	0.00	2.59	0.00	2.59	58
					4.45	100

BMP Selections

Practice	Managed Turf Credit Area (acres)	Impervious Cover Credit Area (acres)	BMP Treatment Volume (ft ³)	TP Load from Upstream Practices (lbs)	Untreated TP Load to Practice (lbs)	TP Removed (lb/yr)	TP Remaining (lb/yr)	Downstream Treatment to be Employed
E.g., Bioretention #1 or Micro-Bioretention #1 or Urban Bioretention (Spec #9)	0.39	4.11	14,484.79	0.00	9.09	5.00	4.09	

Total Impervious Cover Treated (acres): 0.00
 Total Turf Area Treated (acres): 0.00
 Total TP Load Reduction Achieved in D.A. (lb/yr): 0.00
 Total TN Load Reduction Achieved in D.A. (lb/yr): 0.00

NOTE: STORM WATER QUALITY REQUIREMENTS

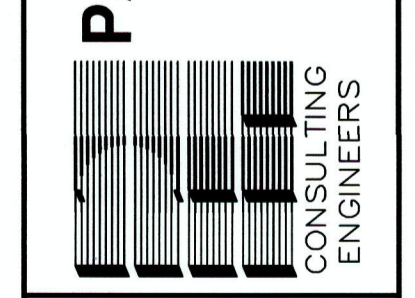
- DUE TO THE SIZE OF THIS SITE, THE PROPOSED DENSITY, AND THE DEVELOPMENT OF THIS SITE IS A LESSER USE THAN WAS ORIGINALLY PROPOSED, NO ONSITE STORM WATER QUALITY MEASURES HAVE BEEN PROPOSED FOR THIS RESIDENTIAL DEVELOPMENT.
- THE STORM WATER QUALITY REQUIREMENTS FOR THIS REDEVELOPMENT SITE RESULTS IN A 0.93 LB/YR OF TP LOAD REDUCTION.
- TO MEET THIS REQUIREMENT, 0.93 LB/YR OF NUTRIENT CREDITS SHALL BE OBTAINED BY THE OWNER FROM A CERTIFIED NUTRIENT BANK.

NO.	DATE	DESCRIPTION

TITLE: **SITE DEVELOPMENT PLAN: STORM WATER QUALITY CALCULATION SUMMARY SPREADSHEETS**

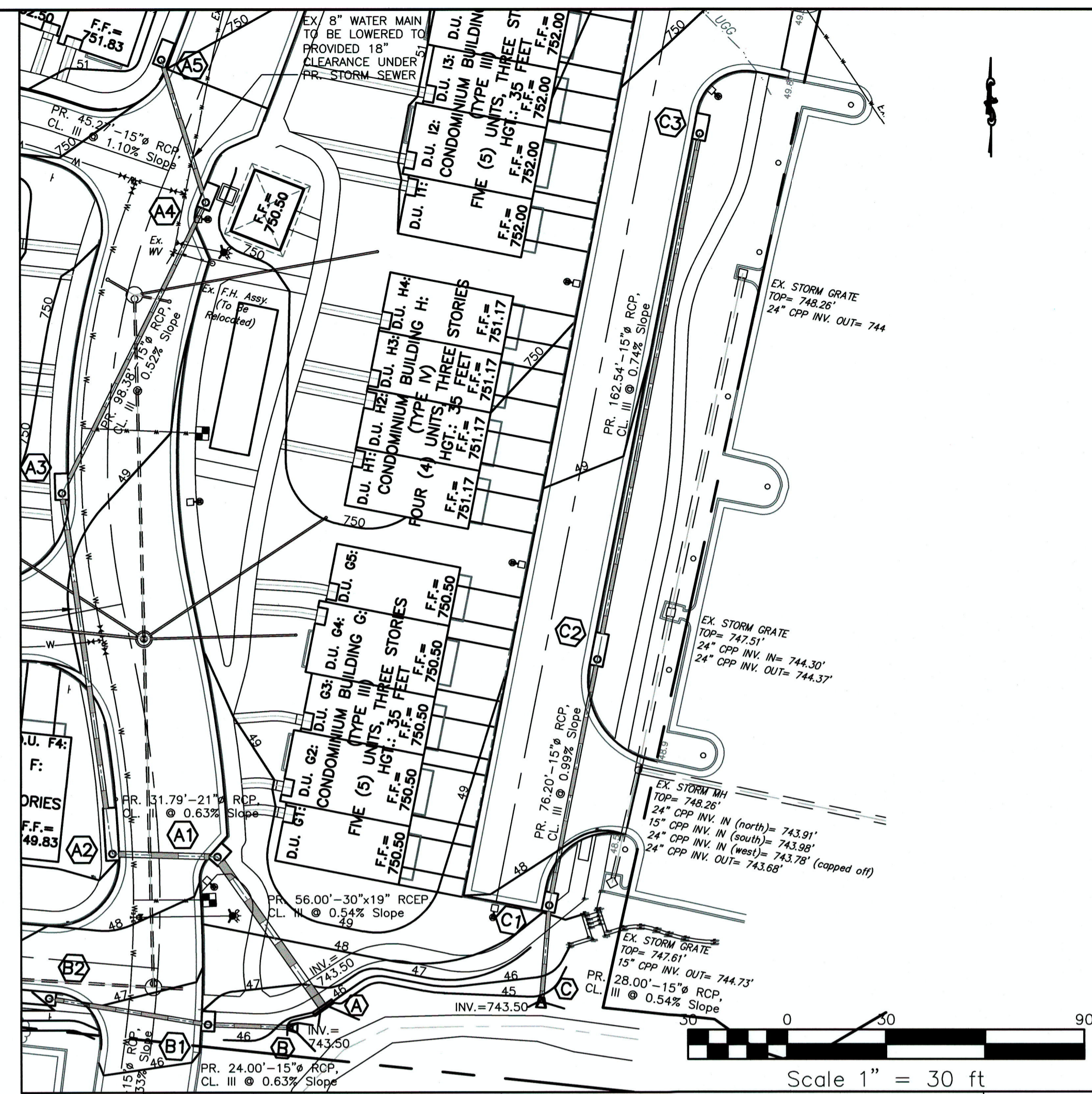
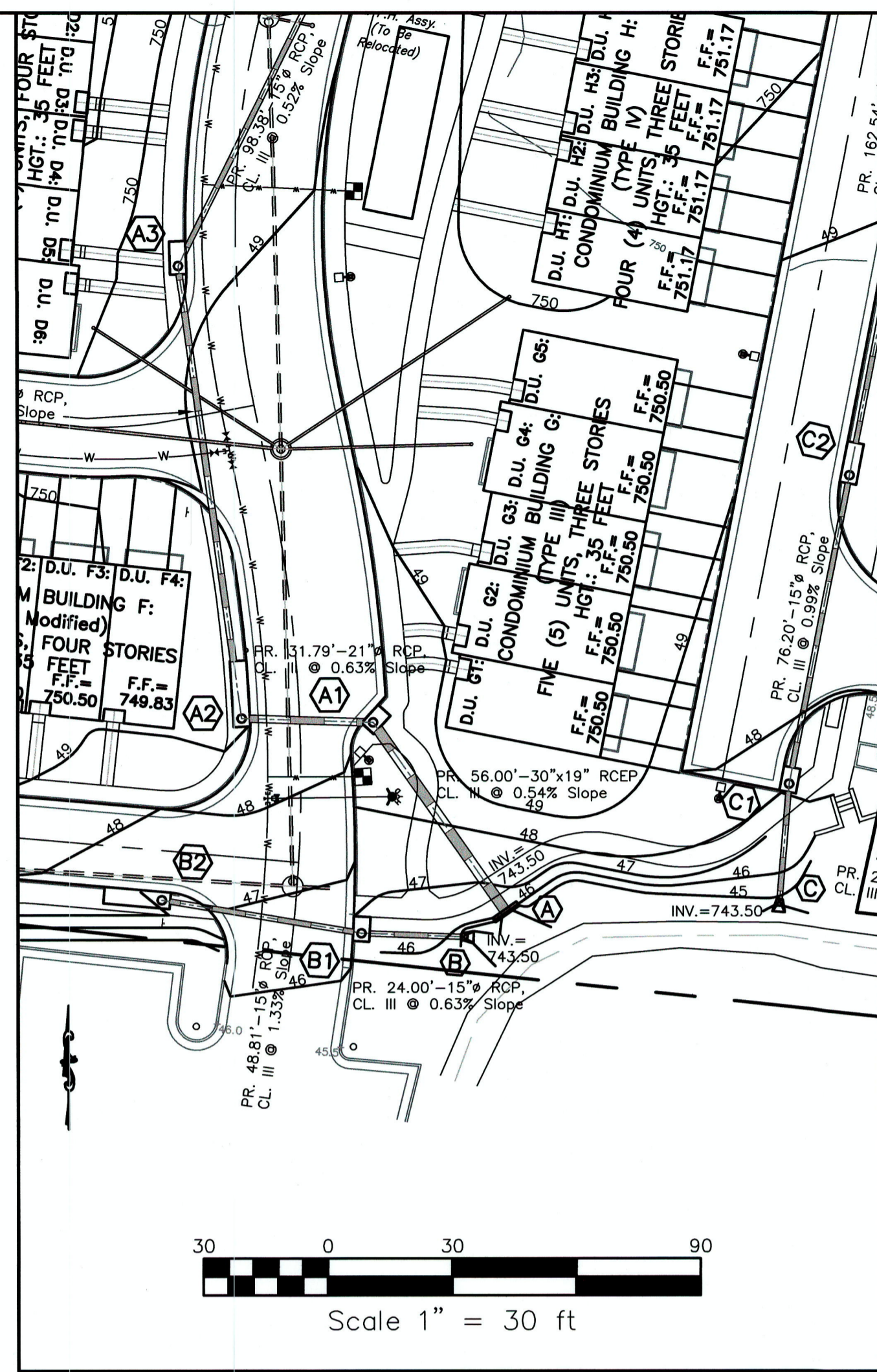
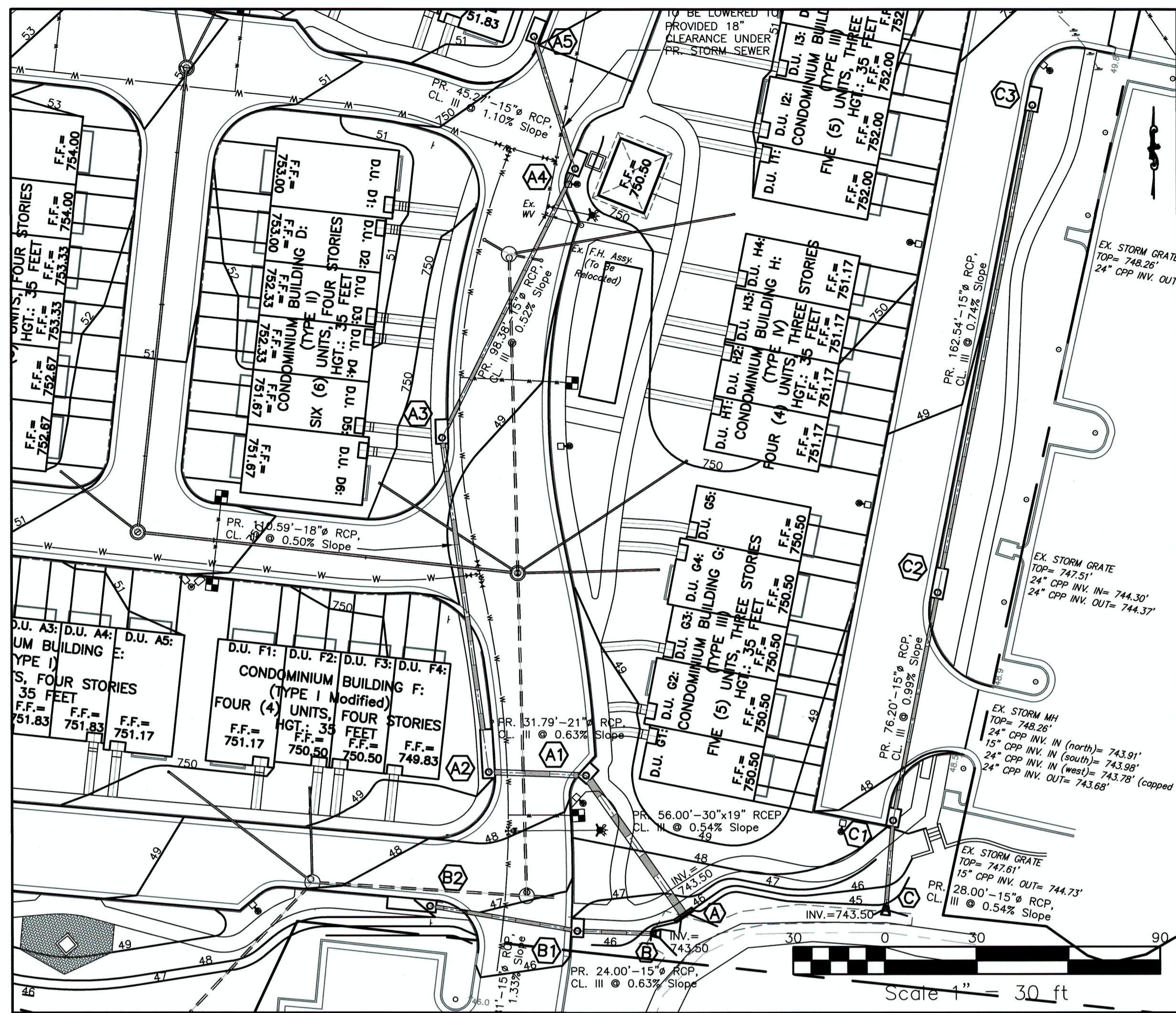
PROJECT: **OAKCREST BUILDERS, INC. THE LOFTS AT CREEKSIDE CONDOMINIUM COMPLEX 3131 VALLEY AVENUE (ROUTE 11 SOUTH) WINCHESTER, VIRGINIA 22601**

PAINTER-LEWIS, P.L.C.
 817 CEDAR CREEK GRADE, SUITE 120
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 Telephone: (540) 662-5792
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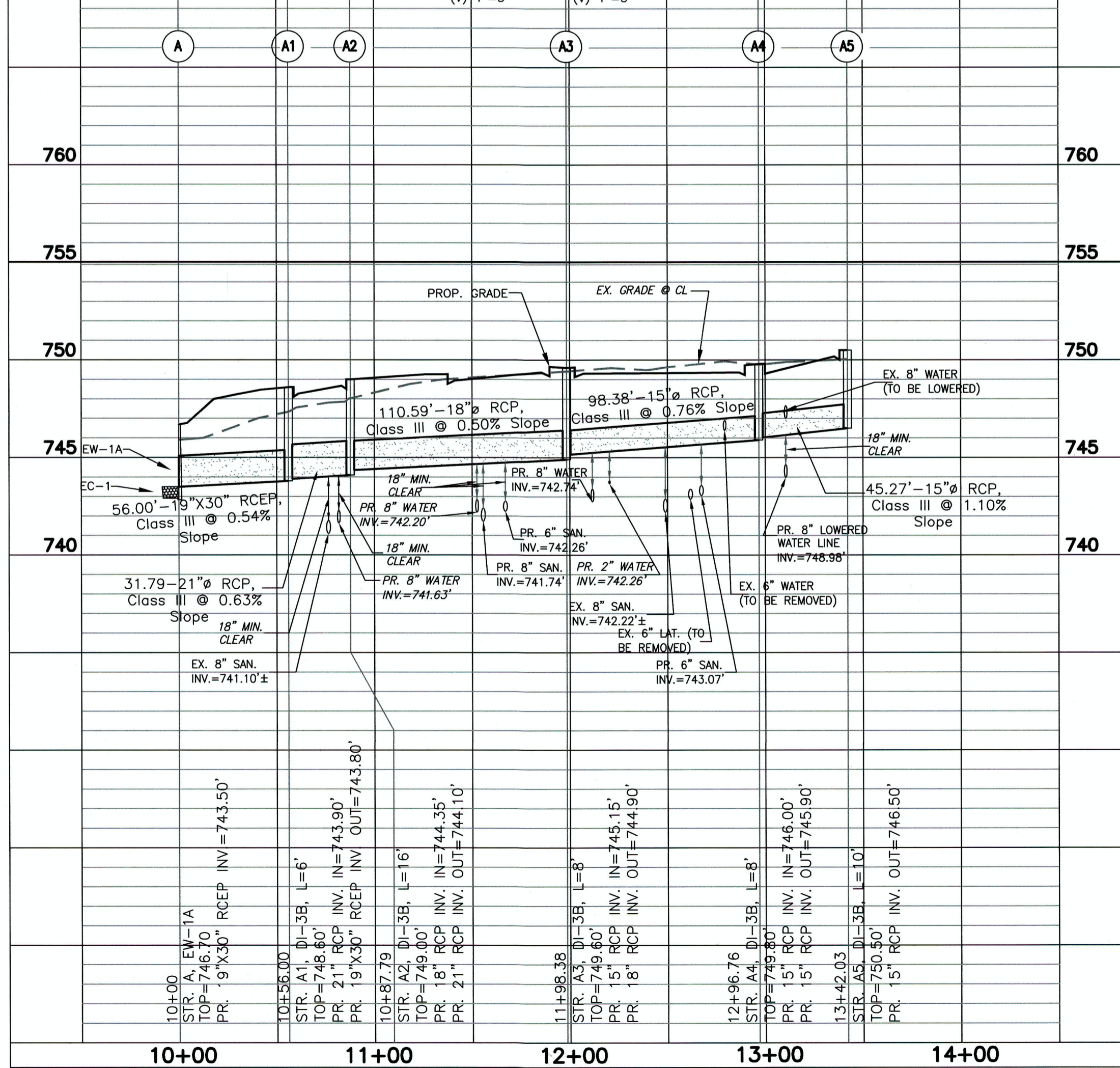
TIMOTHY G. PAINTER
 Lic. No. 018260
 PROFESSIONAL ENGINEER

SURVEY: P-L PLC C.I.: 1'
 DRAWN BY: TGP JOB NO.: 1802043
 SCALE: 1"=30.0' DATE: 09-09-19
 SHEET: 13/20



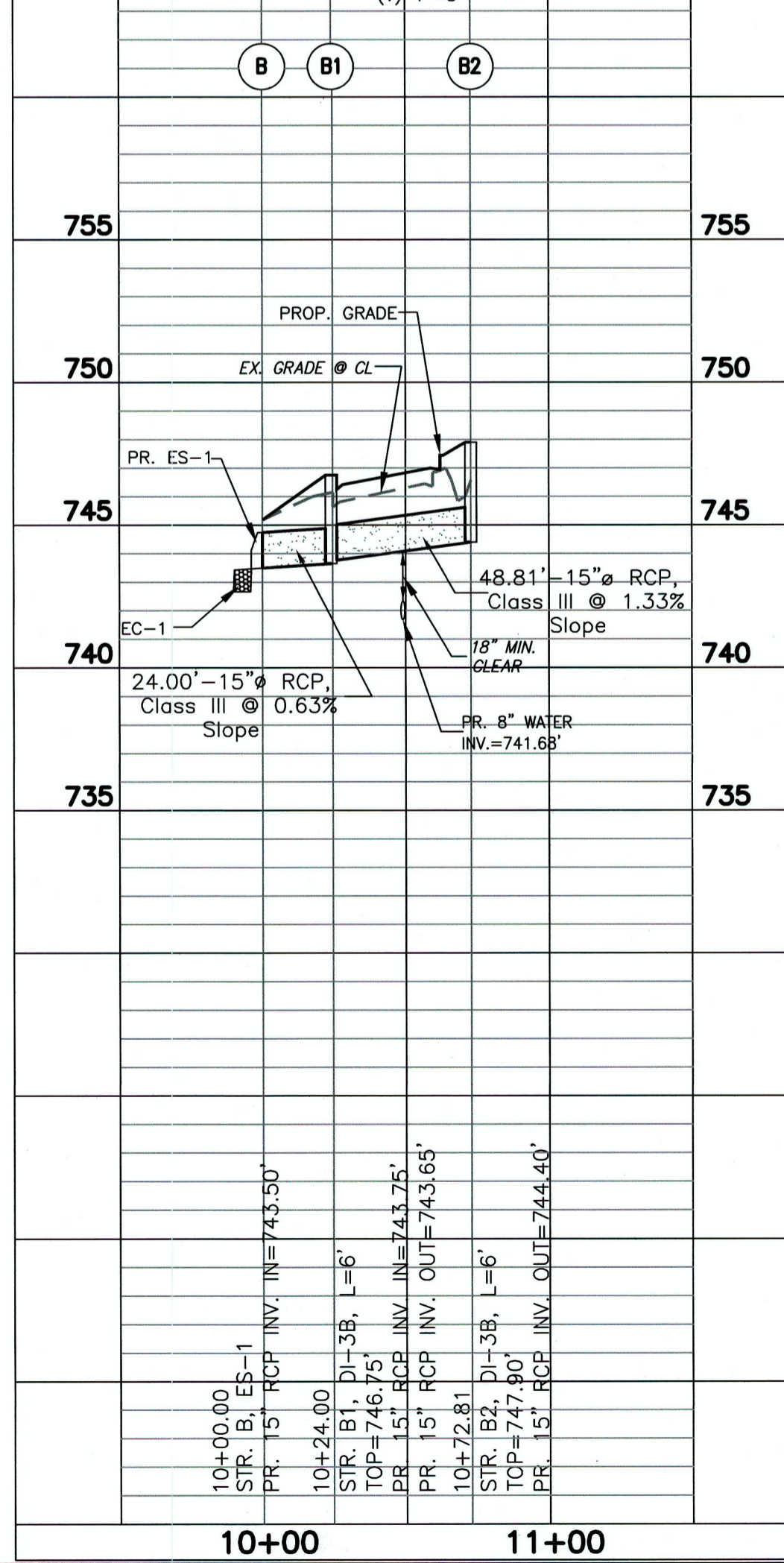
STORM SEWER PROFILE A-A1-A2-A3-A4-A5

SCALES: (H) 1"=50' SCALES: (H) 1"=50'
(V) 1"=5' (V) 1"=5'



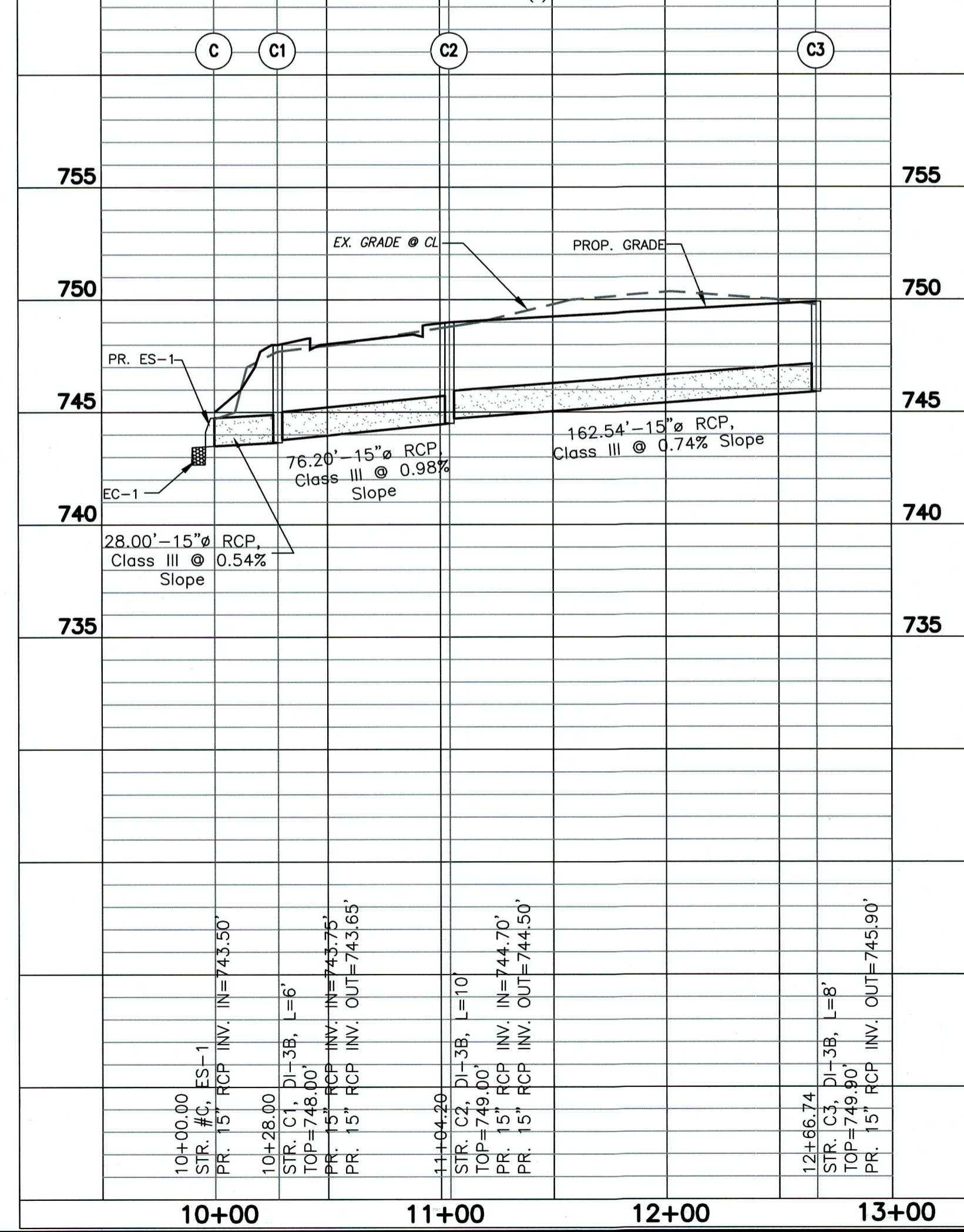
STORM SEWER PROFILE B-B1-B2

SCALES: (H) 1"=50'
(V) 1"=5'



STORM SEWER PROFILE C-C1-C2-C3

SCALES: (H) 1"=50'
(V) 1"=5'



REVISIONS

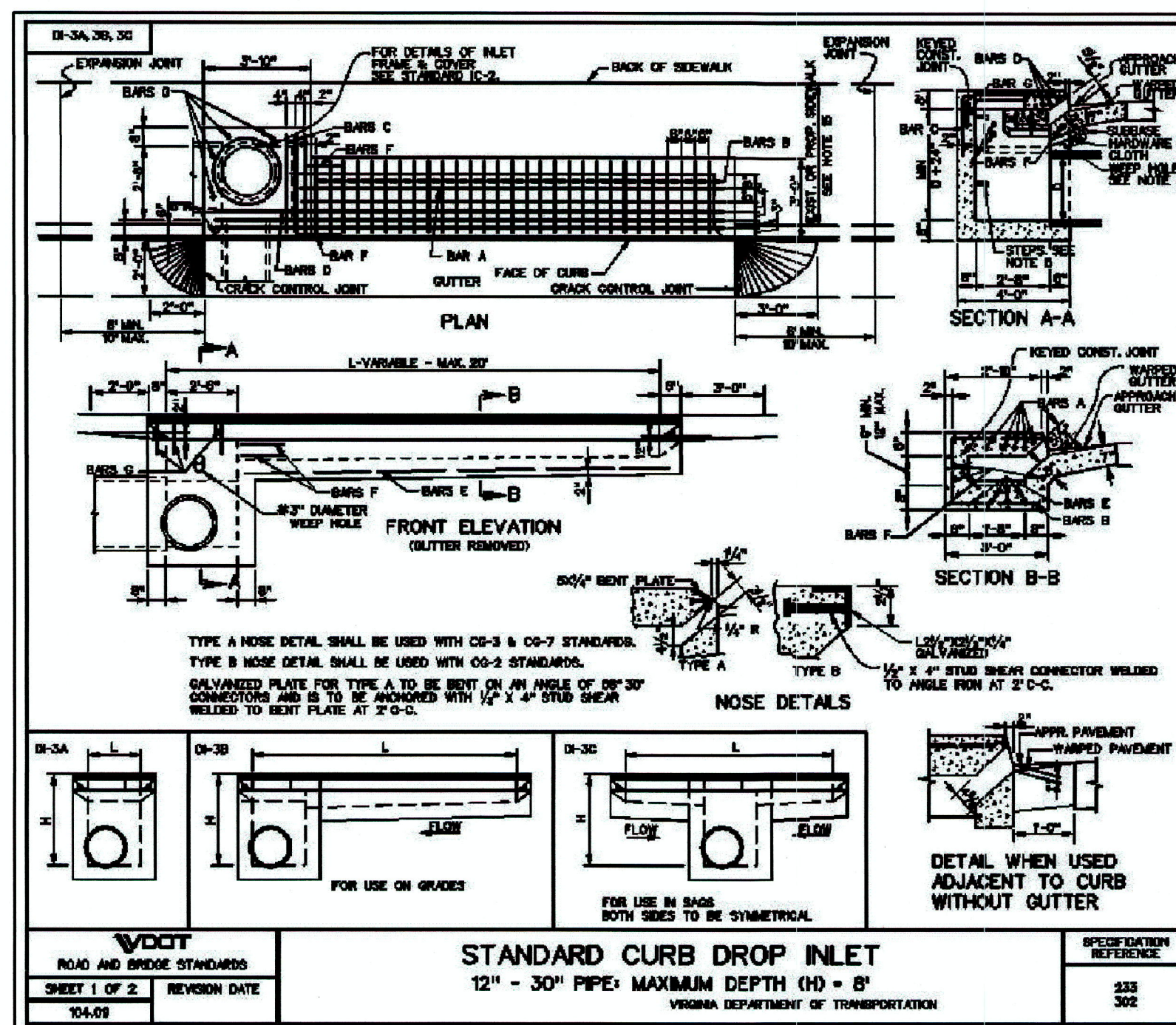
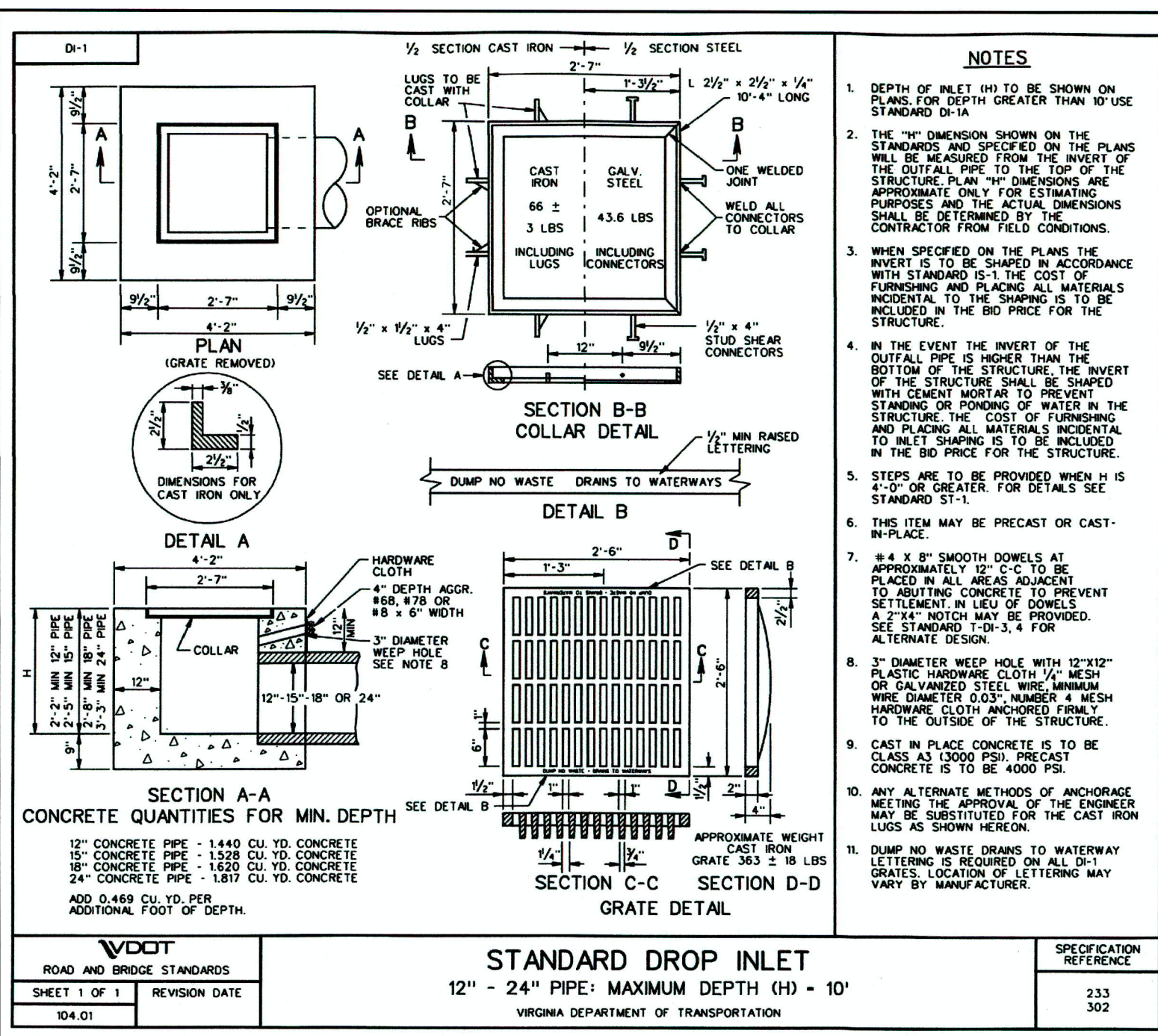
NO.	DATE	DESCRIPTION	BY

TITLE: SITE DEVELOPMENT PLANS:
STORM SEWER PROFILES:
LINE A-A5
LINE B-B2
LINE C-C3

PROJECT: OAKCREST BUILDERS, INC.
THE LOFTS AT CREEKSIDE
CONDOMINIUM COMPLEX
3131 VALLEY AVENUE
(ROUTE 11 SOUTH)
WINCHESTER, VIRGINIA 22601

PAINTEr-LEWIS, P.L.C.
817 CEDAR CREEK GRADE, SUITE 120
WINCHESTER, VIRGINIA 22601
Telephone: (540) 662-5792
Facsimile: (540) 662-5793
Email: office@painterlewis.com

SURVEY: P-L P.L.C. C.I.: 1'
DRAWN BY: TGP JOB NO.: 1802043
SCALE: 1"=30.0' DATE: 09-09-19
SHEET: 14/20



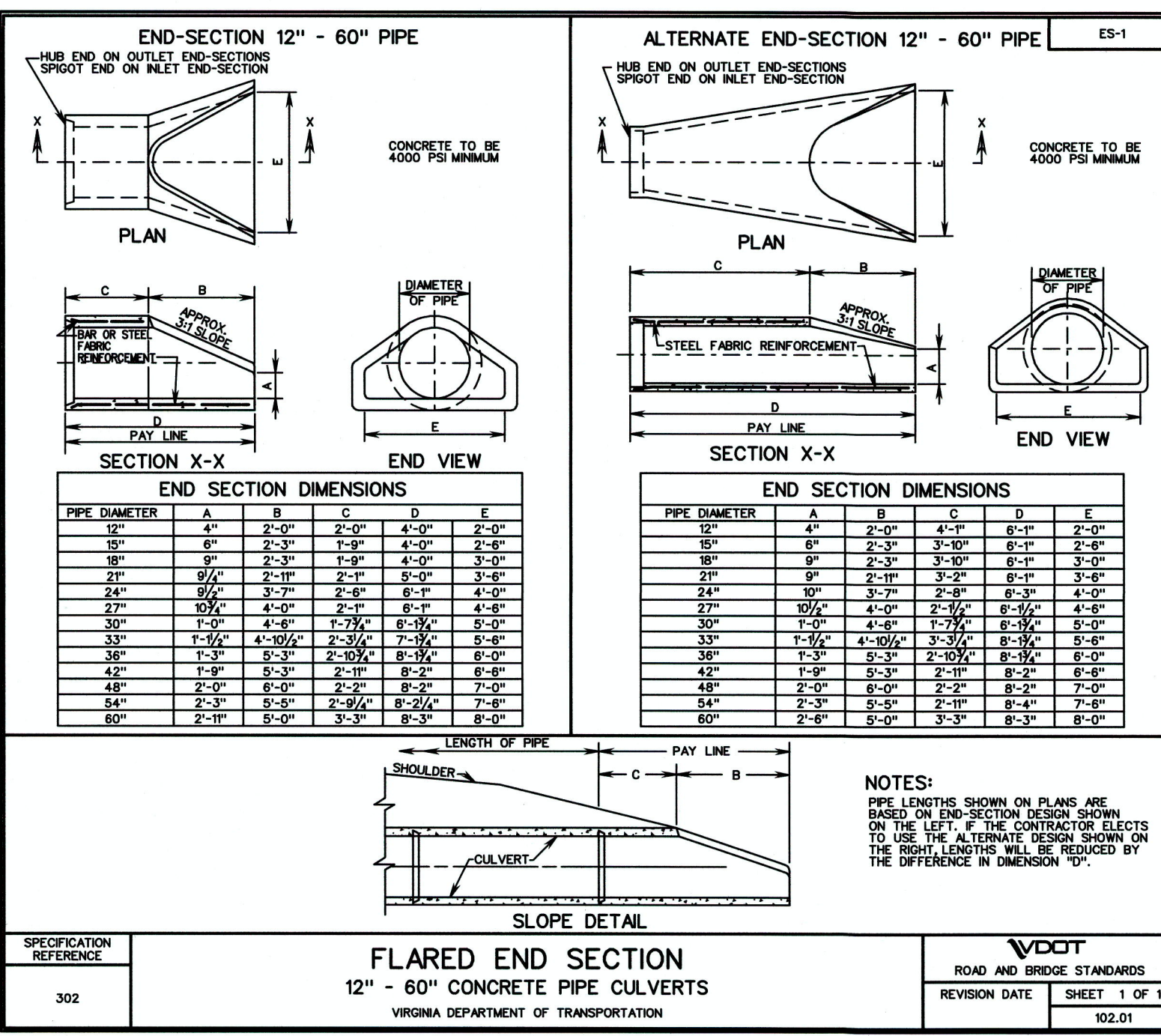
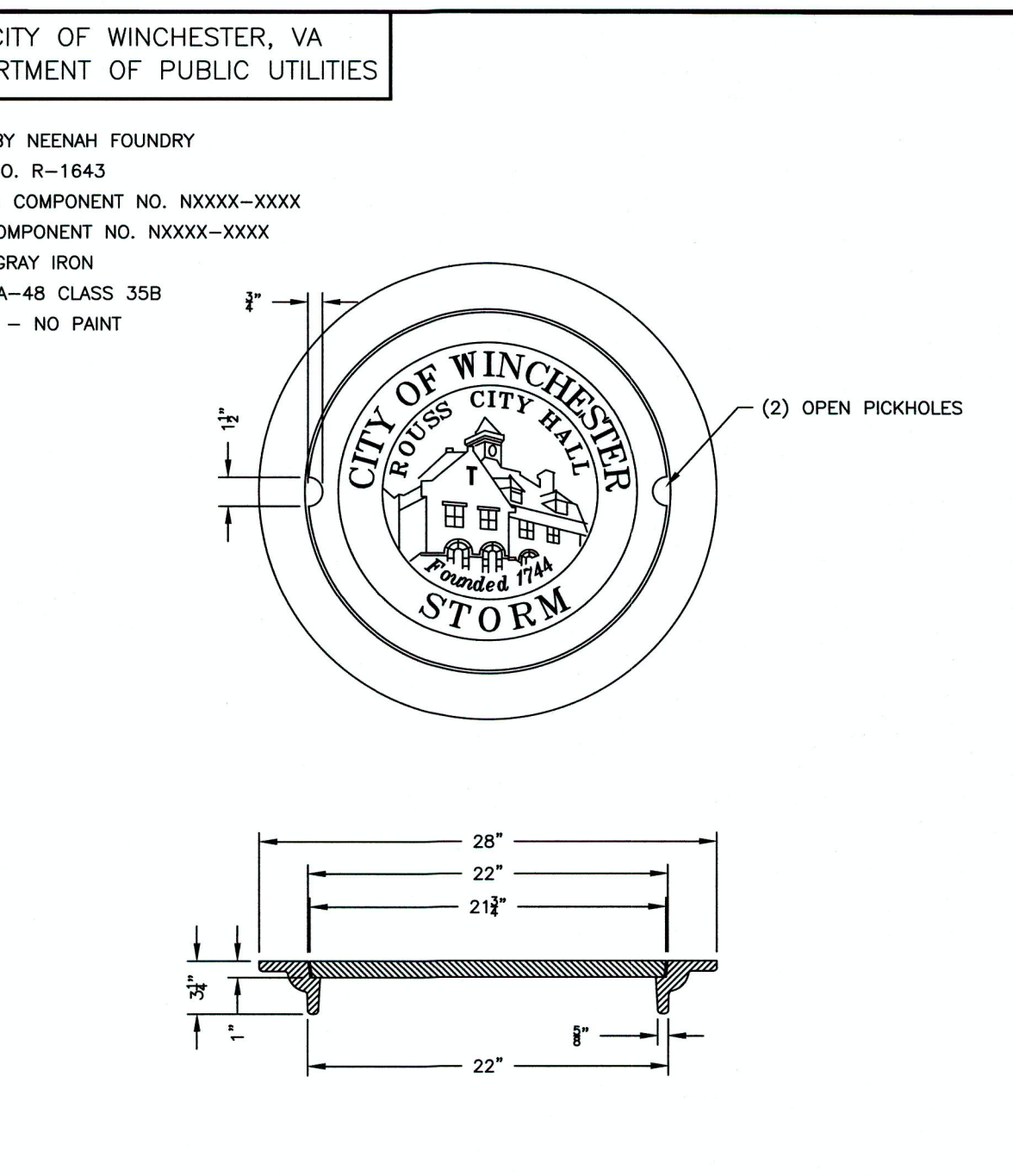
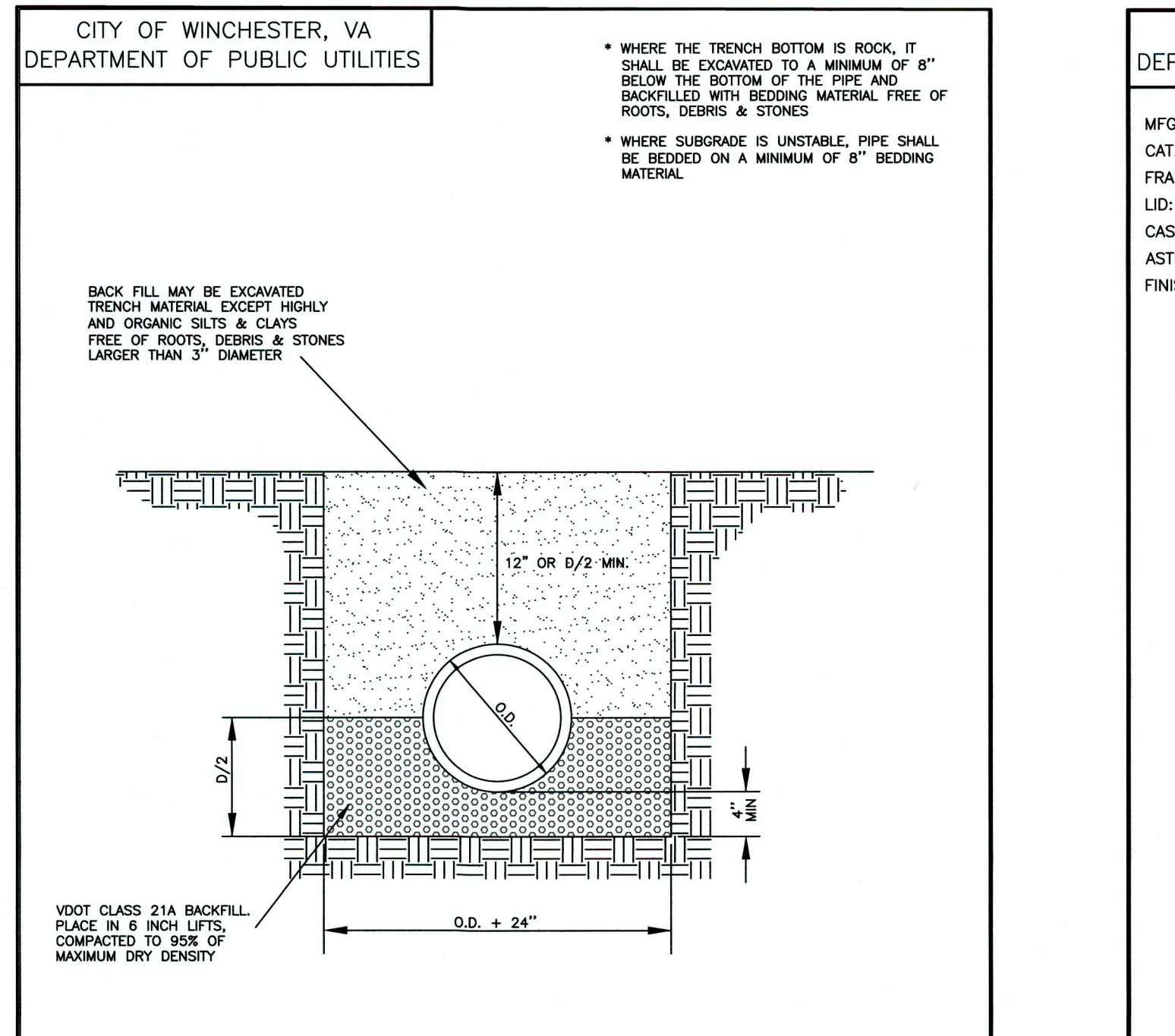
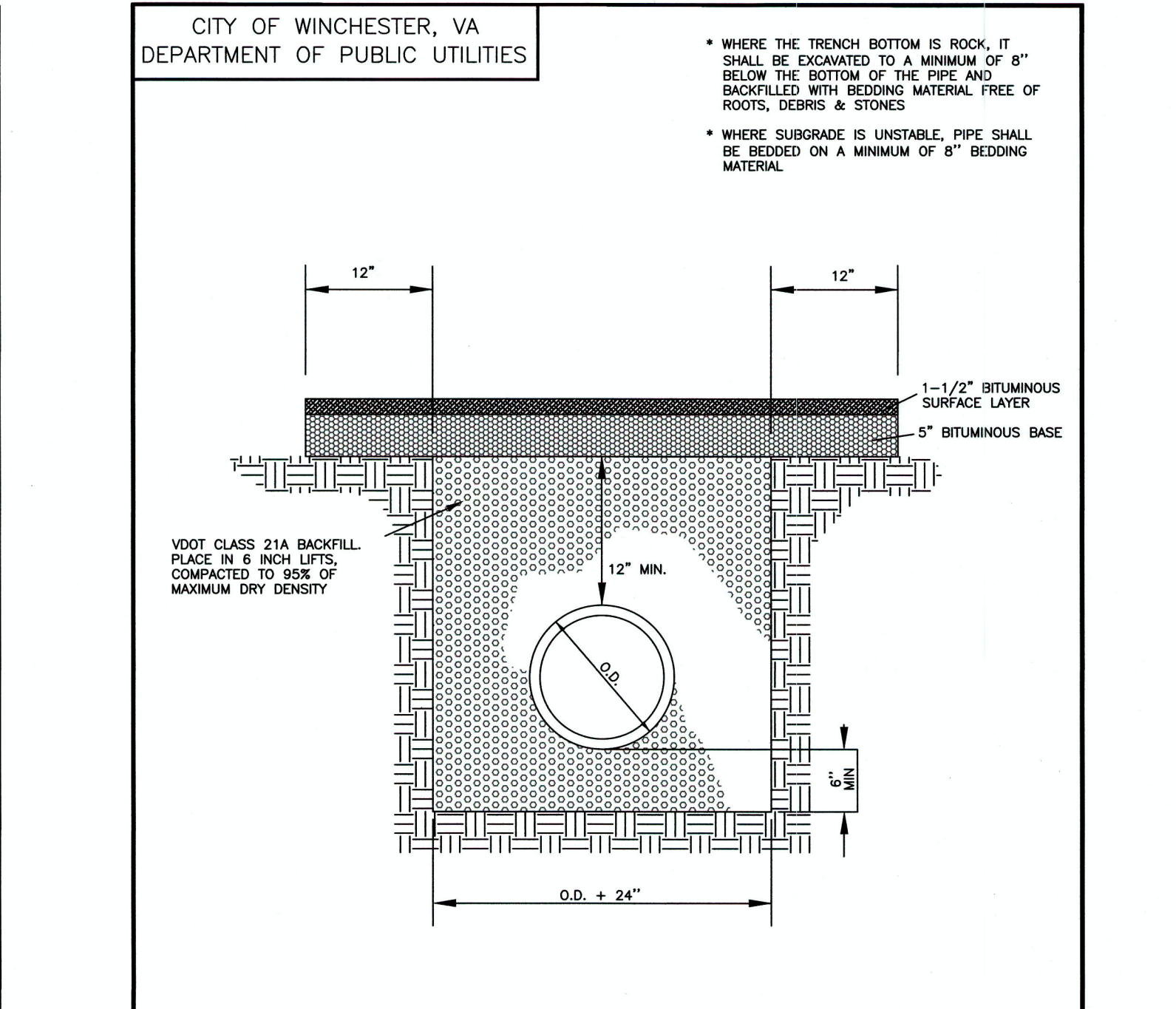
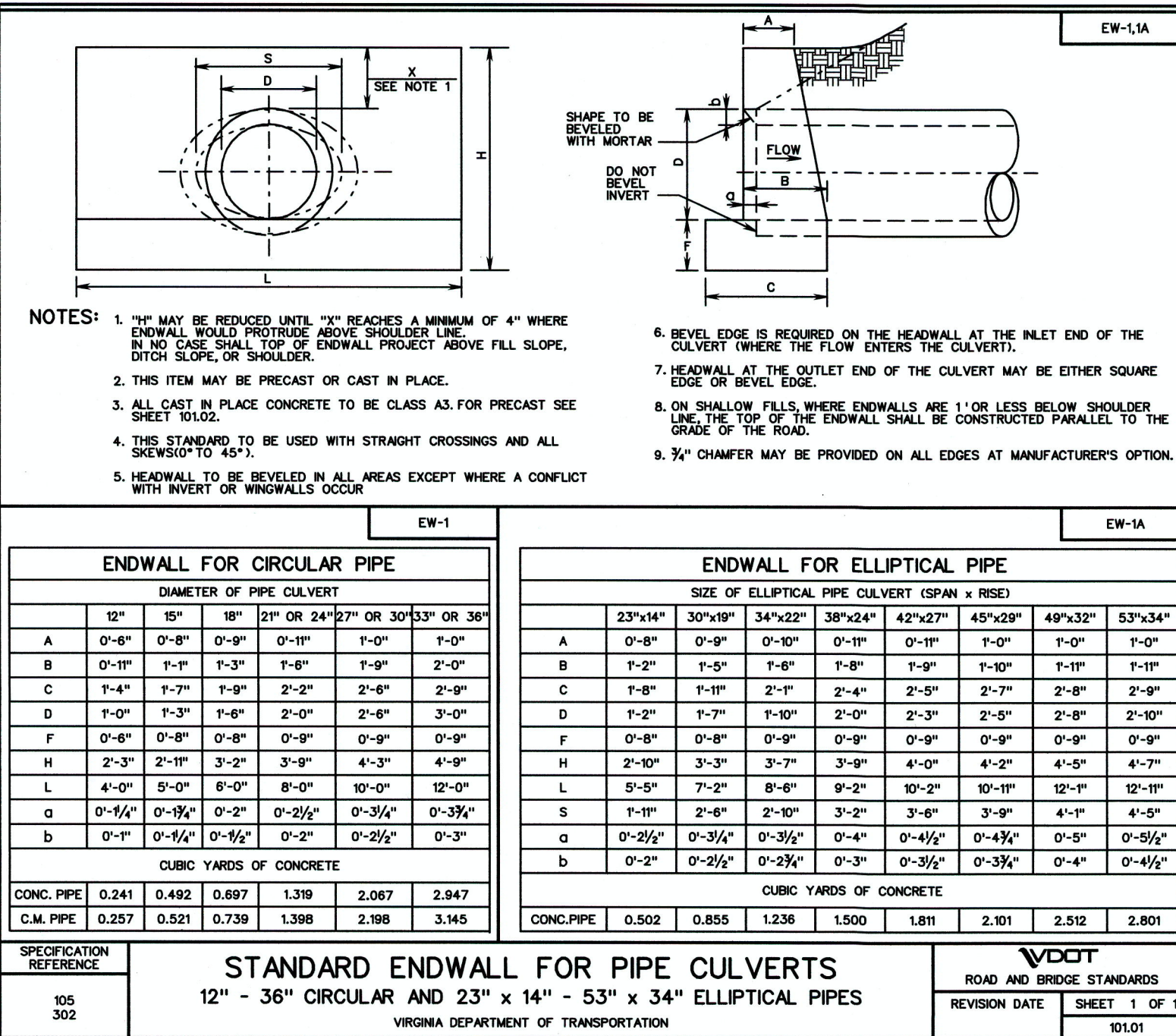
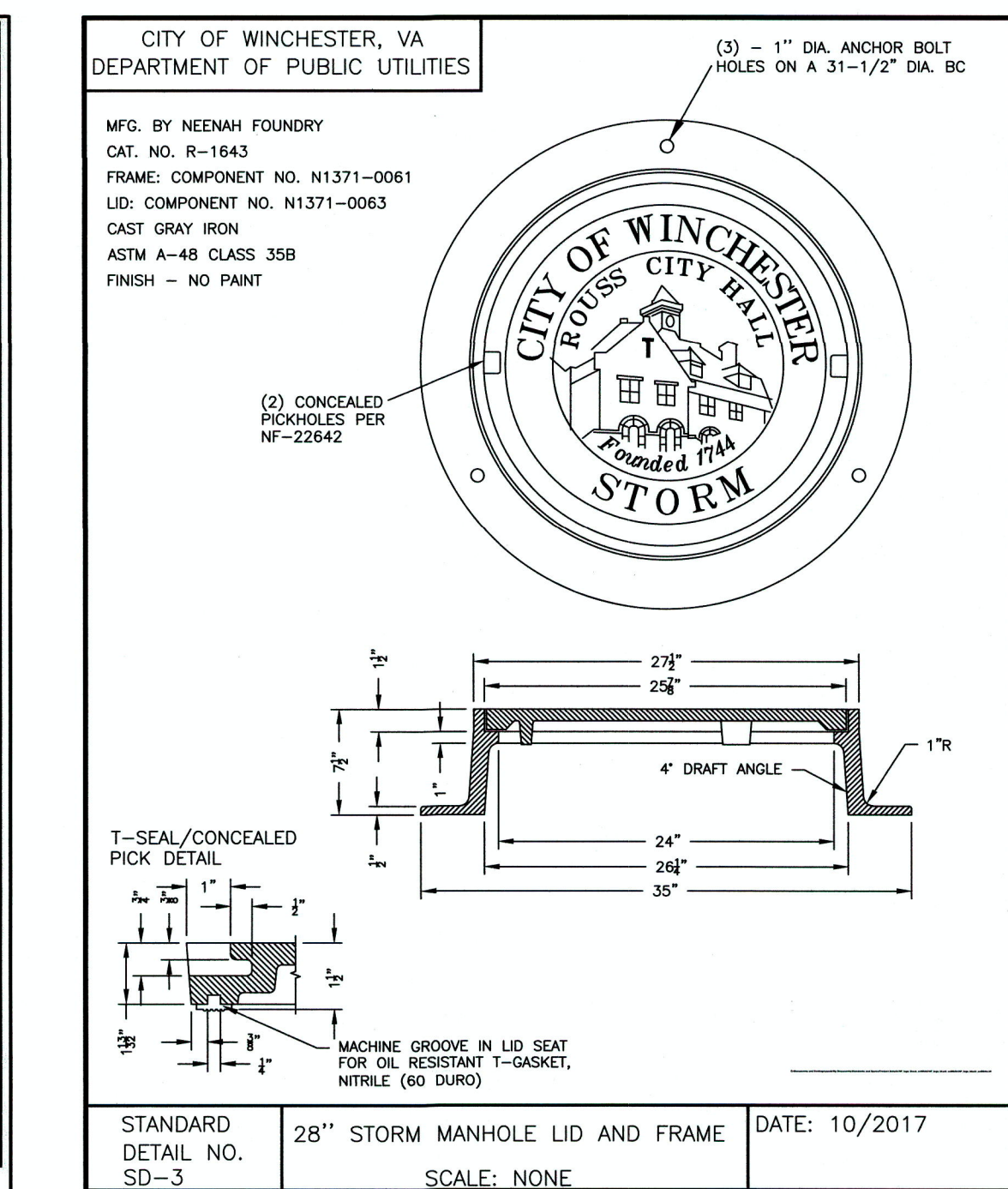
CITY OF WINCHESTER, VA
DEPARTMENT OF PUBLIC UTILITIES

REINFORCING STEEL

TYPE	AREA OF SLOT	BARS A				BARS B				BARS C				BARS D				DEPTH
		LA	LB	LC	LD	LA	LB	LC	LD	LA	LB	LC	LD	LA	LB	LC	LD	
01-30	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
02-30	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

NOTES:
 1. DEPTH OF INLET (H) TO BE SHOWN ON PLANS.
 2. THE 1/2" DIMENSION SHOWN ON THE STANDARDS AND SPECIFIED FOR PLANS...
 3. THE 1/2" DIMENSION SHOWN ON THE STANDARDS...
 4. IN THE EVENT THE INVERT OF THE...
 5. STEPS ARE TO BE PROVIDED WHEN H IS 4'-0" OR GREATER...
 6. THIS ITEM MAY BE PRECAST OR CAST-IN-PLACE.
 7. 4 X 8' SMOOTH DOWELS AT APPROXIMATELY 5' O.C. TO BE PLACED IN ALL AREAS ADJACENT TO THE CURB...
 8. 2" DIAMETER WEEP HOLES WITH 1/2" X 1/2" PLUGS...
 9. CAST-IN PLACE CONCRETE IS TO BE CLASS 3000 PSI PRECAST CONCRETE IS TO BE 4000 PSI.
 10. IF ALL ALTERNATE METHODS OF ANCHORAGE MEETING THE APPROVAL OF THE ENGINEER...
 11. DUMP NO WASTE DRAINS TO WATERWAYS...
 12. CONCRETE SHEET 1487 CU. YD. CONCRETE...
 13. CONCRETE PIPE 1.1328 CU. YD. CONCRETE...
 14. CONCRETE GRAPE 1.652 CU. YD. CONCRETE...
 15. CONCRETE GRAPE 1.1817 CU. YD. CONCRETE...
 16. ADD 0.488 CU. YD. ADDITIONAL FOOT OF DEPTH.

STANDARD CURB DROP INLET
12" - 30" PIPE; MAXIMUM DEPTH (H) = 8'
VIRGINIA DEPARTMENT OF TRANSPORTATION



REVISIONS

NO.	DATE	DESCRIPTION

TITLE: SITE DEVELOPMENT PLAN: STORM SEWER SYSTEM DETAILS

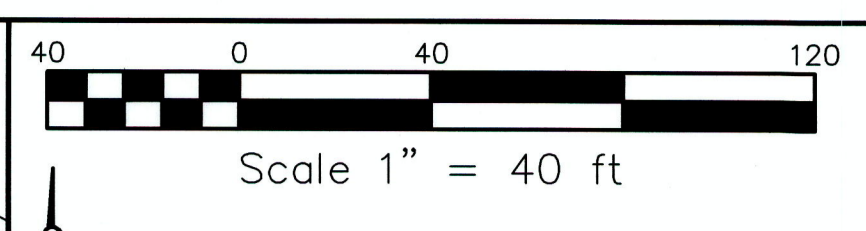
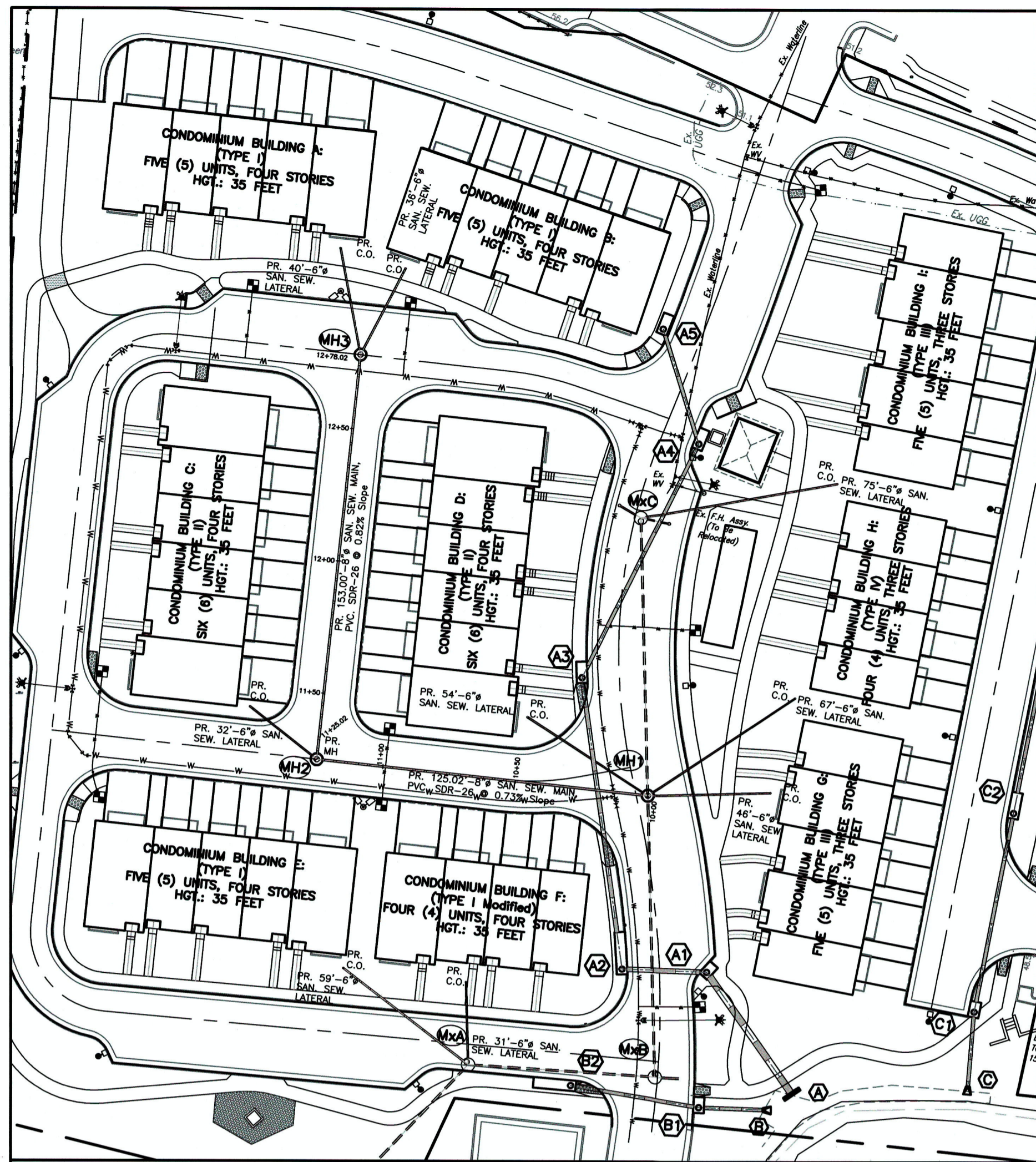
PROJECT: OAKCREST BUILDERS, INC. THE LOFTS AT CREEKSIDE CONDOMINIUM COMPLEX 3131 VALLEY AVENUE (ROUTE 11 SOUTH) WINCHESTER, VIRGINIA 22601

PAINTE-LEWIS, P.L.C. 817 CEDAR CREEK GRADE, SUITE 120 WINCHESTER, VIRGINIA 22601 Telephone: (540) 662-5792 Facsimile: (540) 662-5793 Email: office@painterlewis.com

PROFESSIONAL ENGINEER
TIMOTHY G. PAINTER Lic. No. 018260

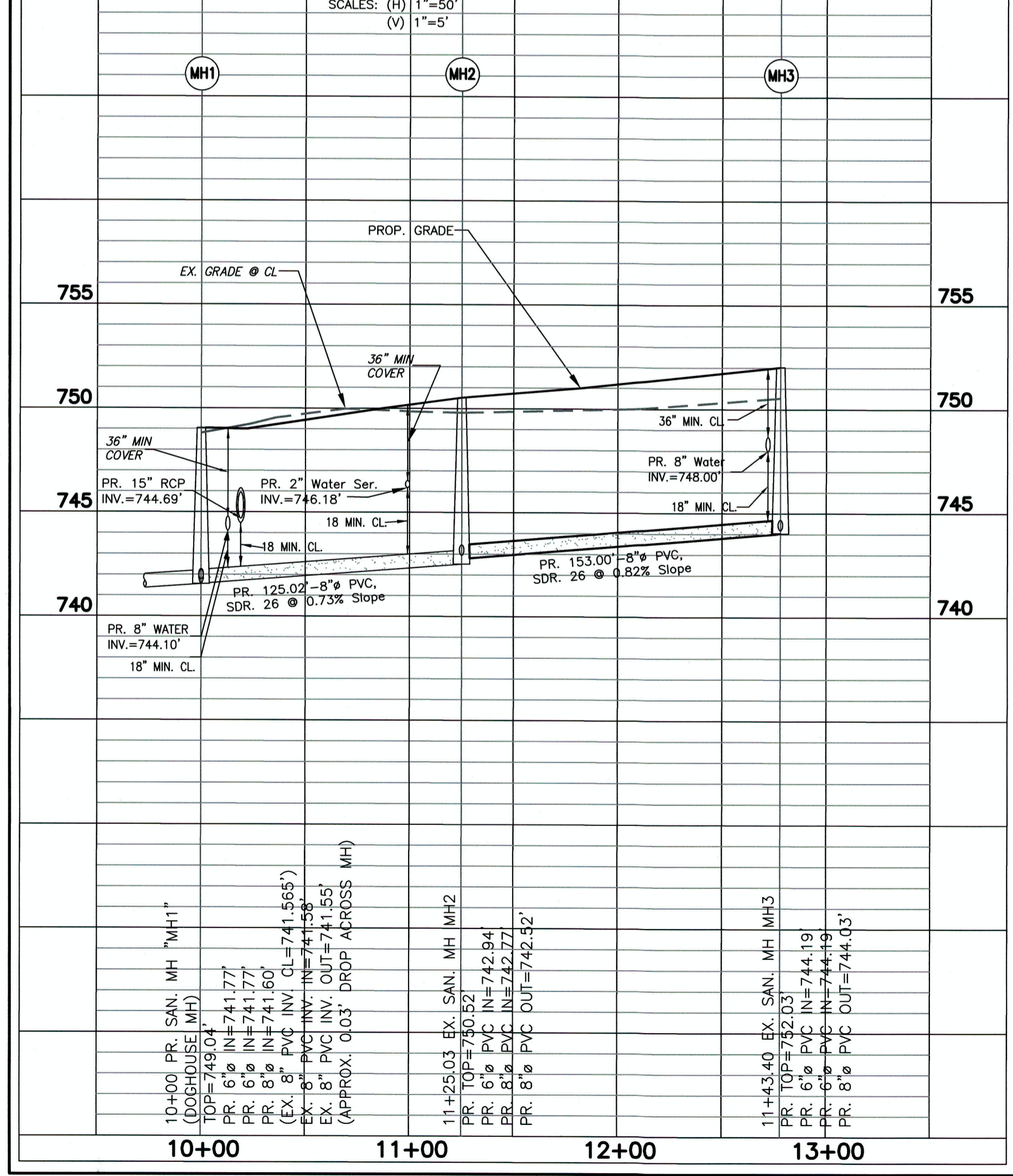
DATE: 09/17/19

SURVEY: C.I.: 1'
P-L: PLC 1'
DRAWN BY: TGP JOB NO.: 1802043
SCALE: DATE: 1802043
1"=30.0' 09-09-19
SHEET: 15/20



- MxA** EX. SAN. MH
TOP= 746.40'
8" PVC INV. IN = 740.46'
8" PVC INV. OUT = 740.41'
PR. 6" LATERAL IN= 740.63'
PR. 6" LATERAL IN= 740.63'
- MxB** EX. SAN. MH
TOP= 746.44'
8" PVC INV. IN (north)= 740.82'
8" PVC INV. IN (west)= 739.88'
8" PVC INV. OUT = 739.87'
- MH1** PR. SAN. MH (DOGHOUSE MH)
TOP= 749.04'
PR. 6" PVC INV. IN = 741.77'
PR. 6" PVC INV. IN = 741.77'
PR. 8" PVC INV. IN = 741.60'
(EX. 8" PVC INV. CL = 741.565')
EX. 8" PVC INV. IN = 741.58'
EX. 8" PVC INV. OUT= 741.55'
(APPROX. 0.03' DROP ACROSS MH)
- MH2** PR. SAN. MH
TOP= 750.52'
PR. 6" PVC INV. IN = 742.94'
PR. 8" PVC INV. IN = 742.77'
PR. 8" PVC INV. OUT= 742.52'
- MH3** PR. SAN. MH
TOP= 752.03'
PR. 6" PVC INV. IN = 744.19'
PR. 8" PVC INV. IN = 744.19'
PR. 8" PVC INV. OUT= 744.03'
- MxC** EX. SAN. MH
TOP= 750.04'
6" PVC INV. IN (east)= 742.74'
6" PVC INV. IN (west)= 742.90'
8" PVC INV. OUT= 742.30'

SANITARY SEWER PROFILE MH1-MH2-MH3



BLDG	STATION	SLOPE	LATERAL LENGTH	INVERT @ CONN.	INVERT @ END
A	12+78.02 (MH 3)	2.08%	40.00'	744.19	745.02'
B	12+78.02 (MH 3)	2.08%	36.00'	744.19	744.94'
C	11+25.02 (MH 2)	2.08%	32.00'	742.94	743.61
D	10+00.00 (MH 1)	2.08%	54.00'	741.77'	742.90'
E	EX. MH (MxA)	2.08%	59.00'	740.63'	741.81'
F	EX. MH (MxA)	2.08%	31.00'	740.63'	741.28'
G	10+00.00 (MH 1)	2.08%	46.00'	741.77'	742.73'
H	10+00.00 (MH 1)	2.08%	67.00'	741.77'	743.17'
I	EX. MH (MxC)	2.08%	75.00'	742.90'	744.46'

NO.	DATE	DESCRIPTION

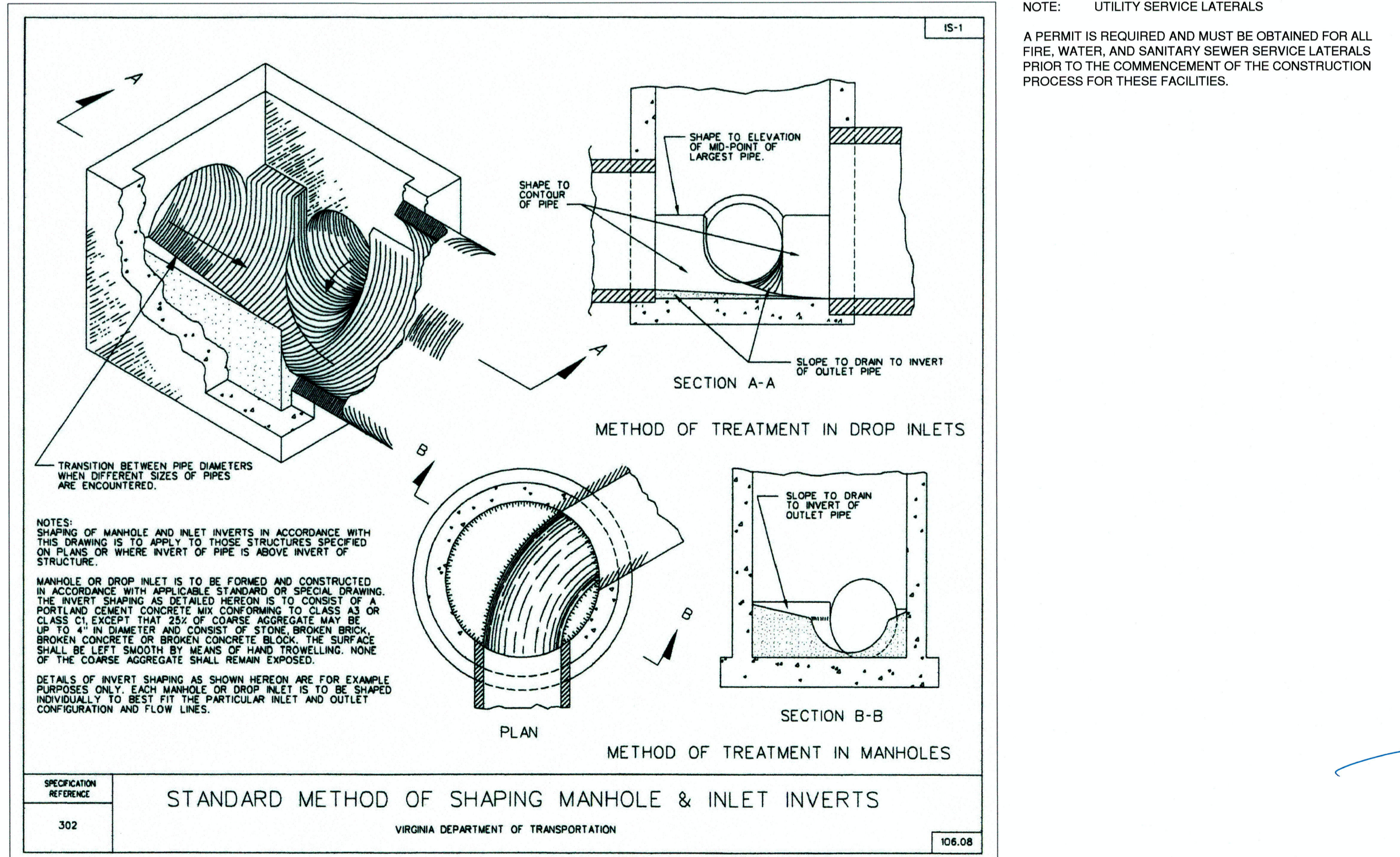
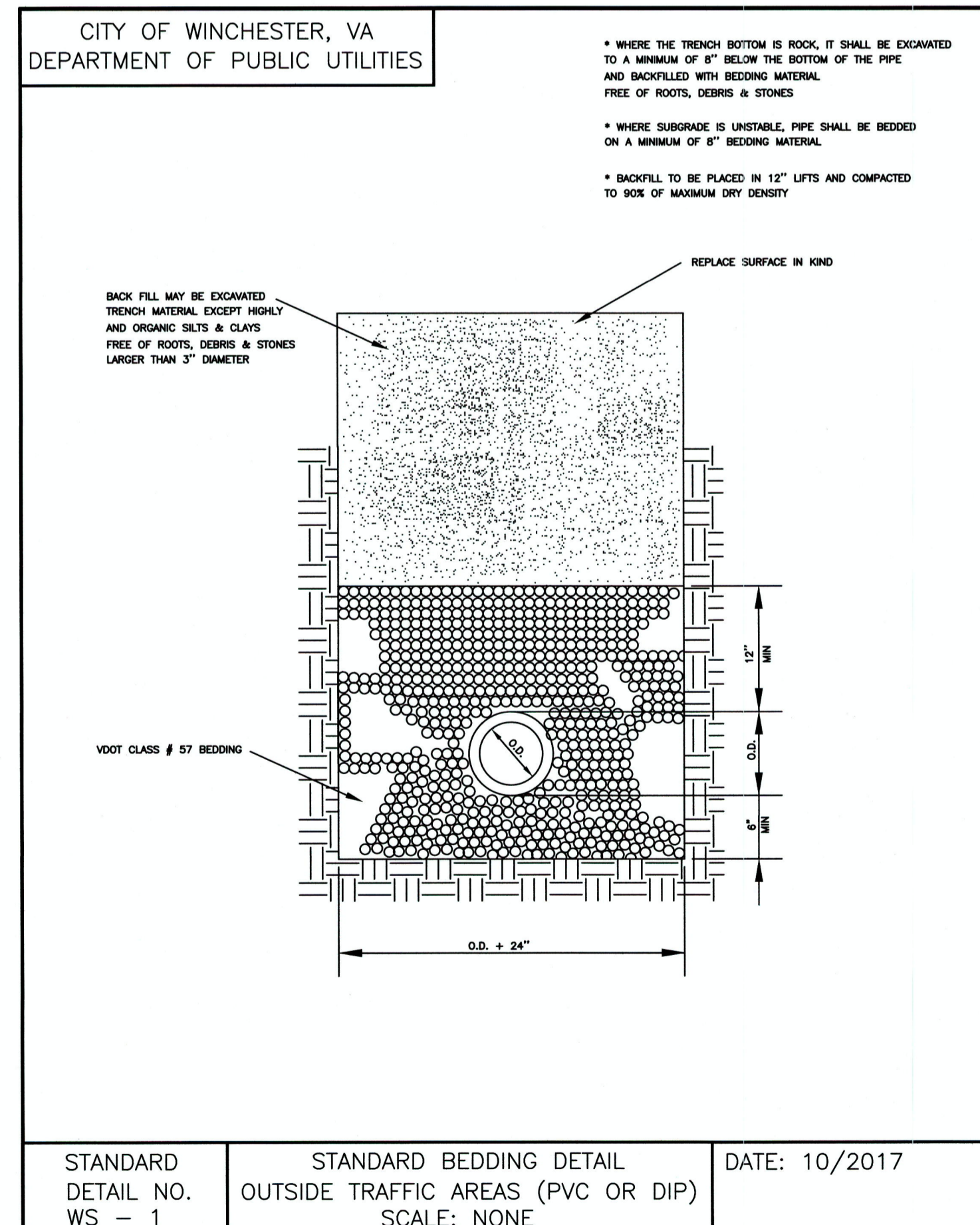
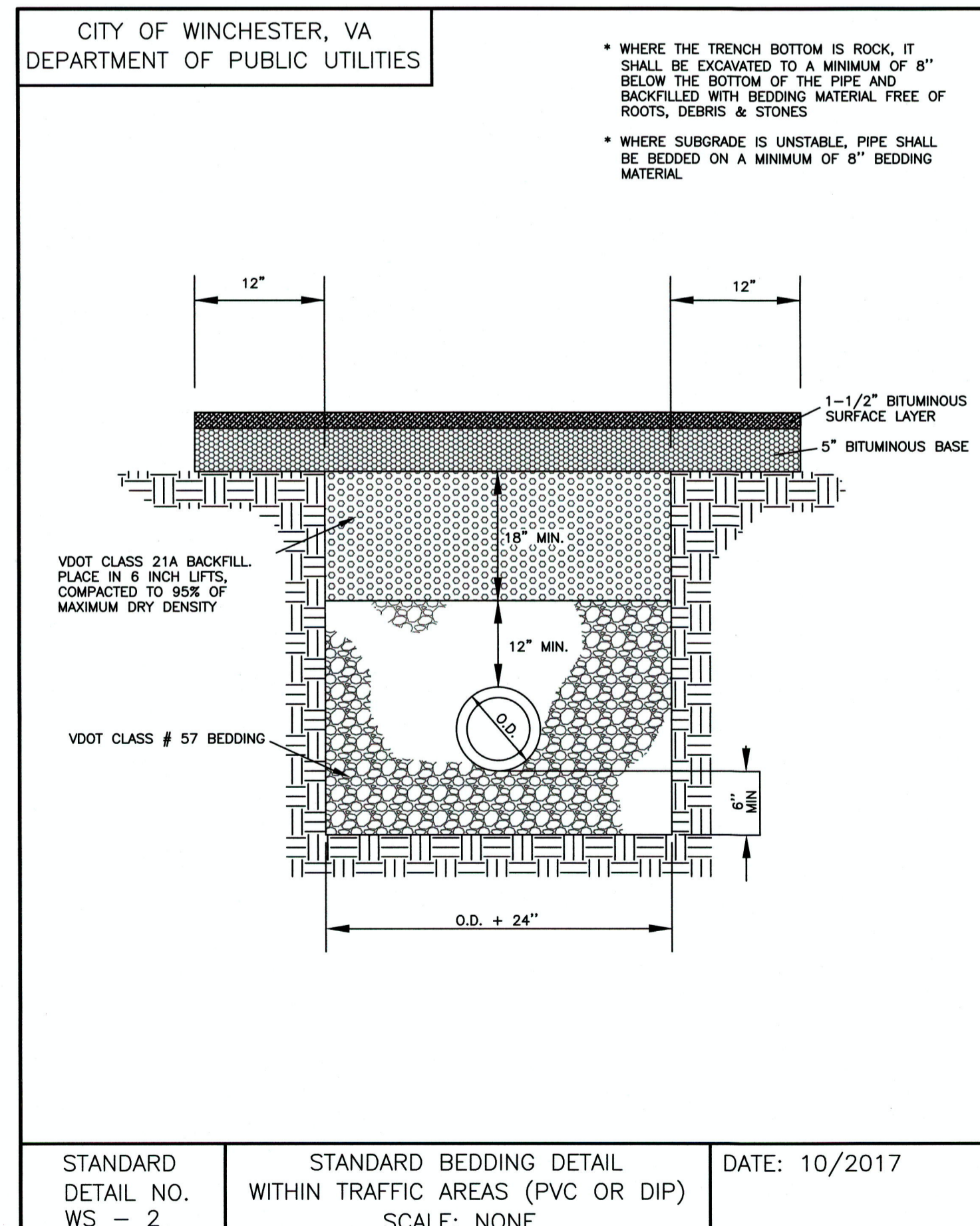
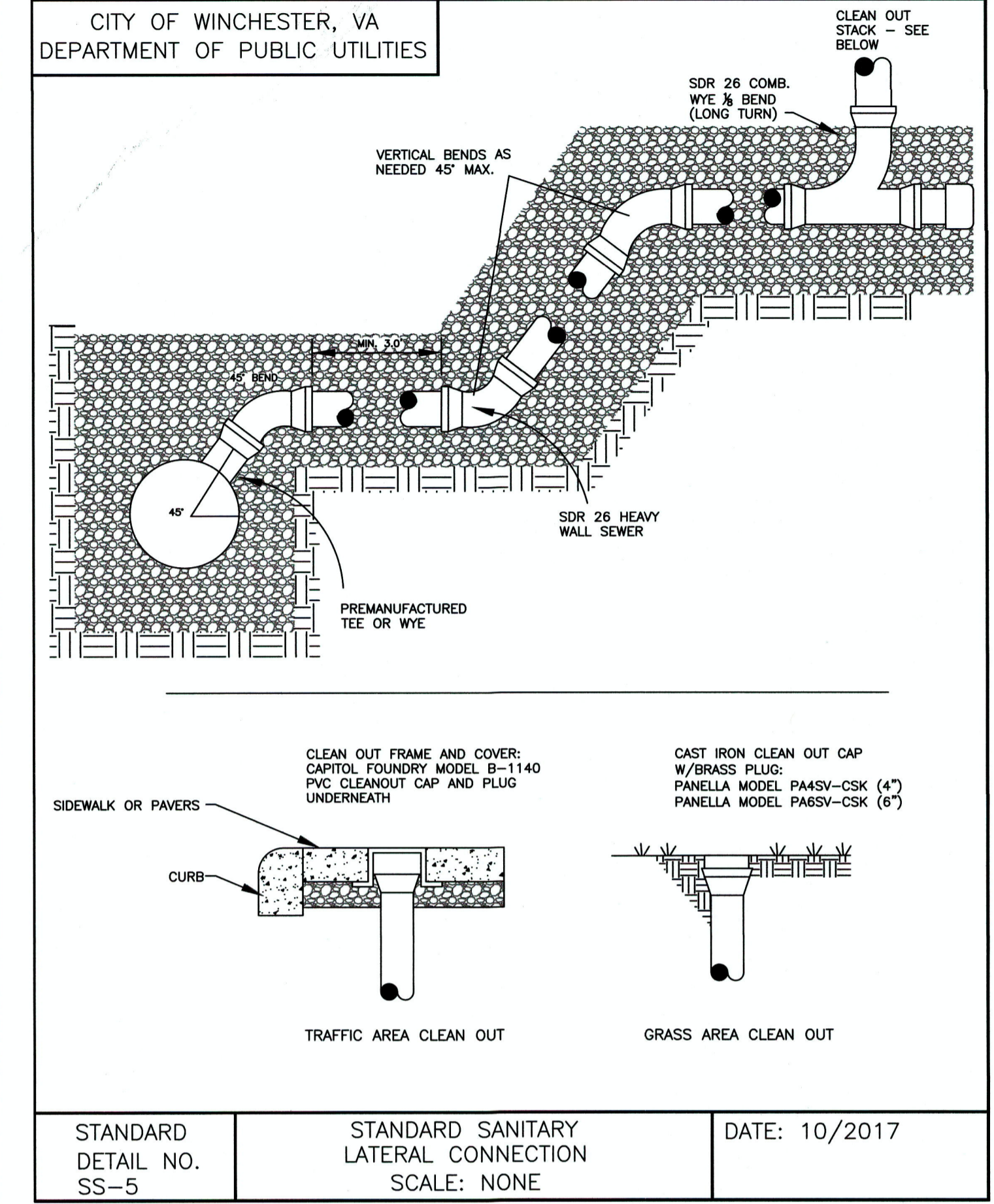
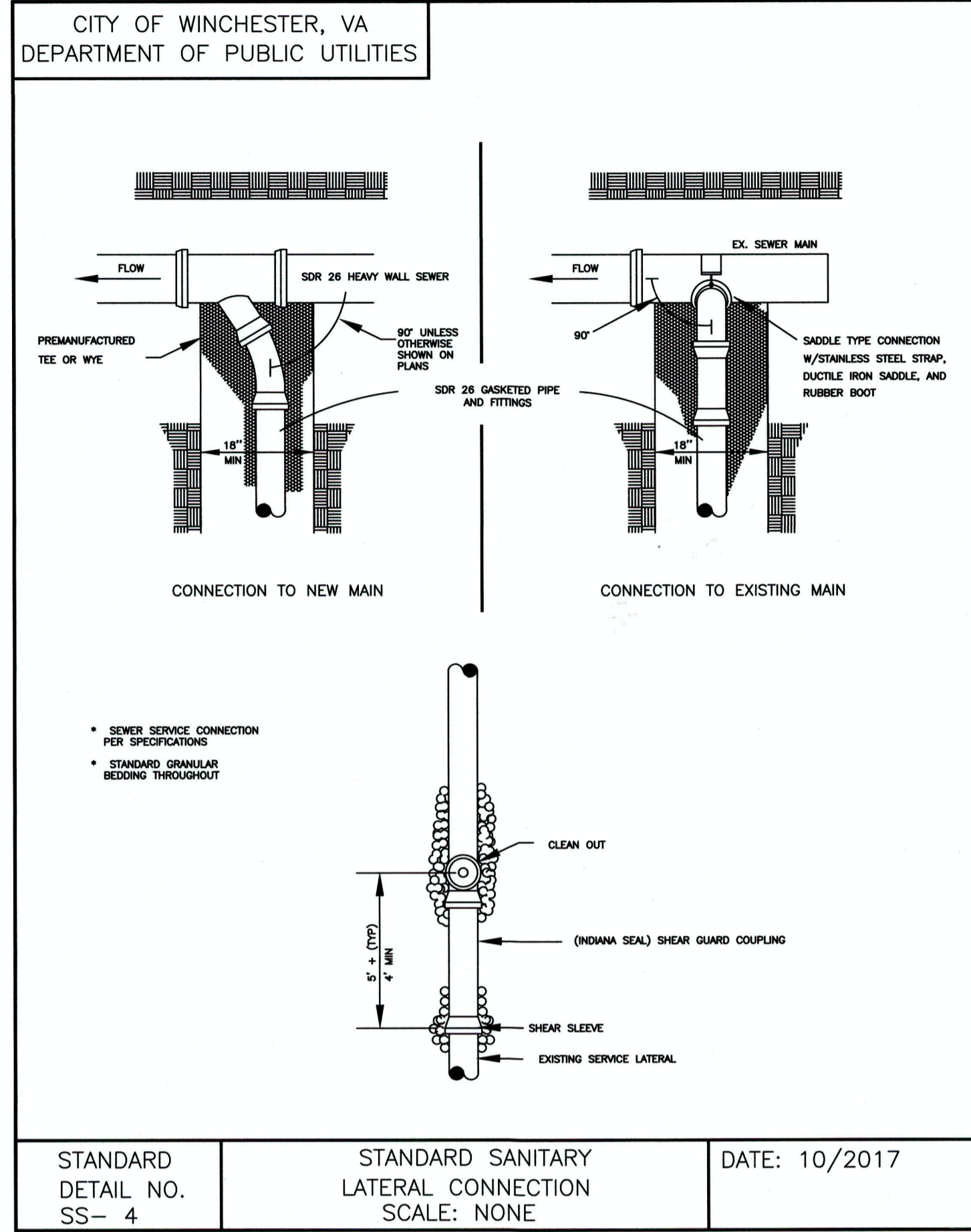
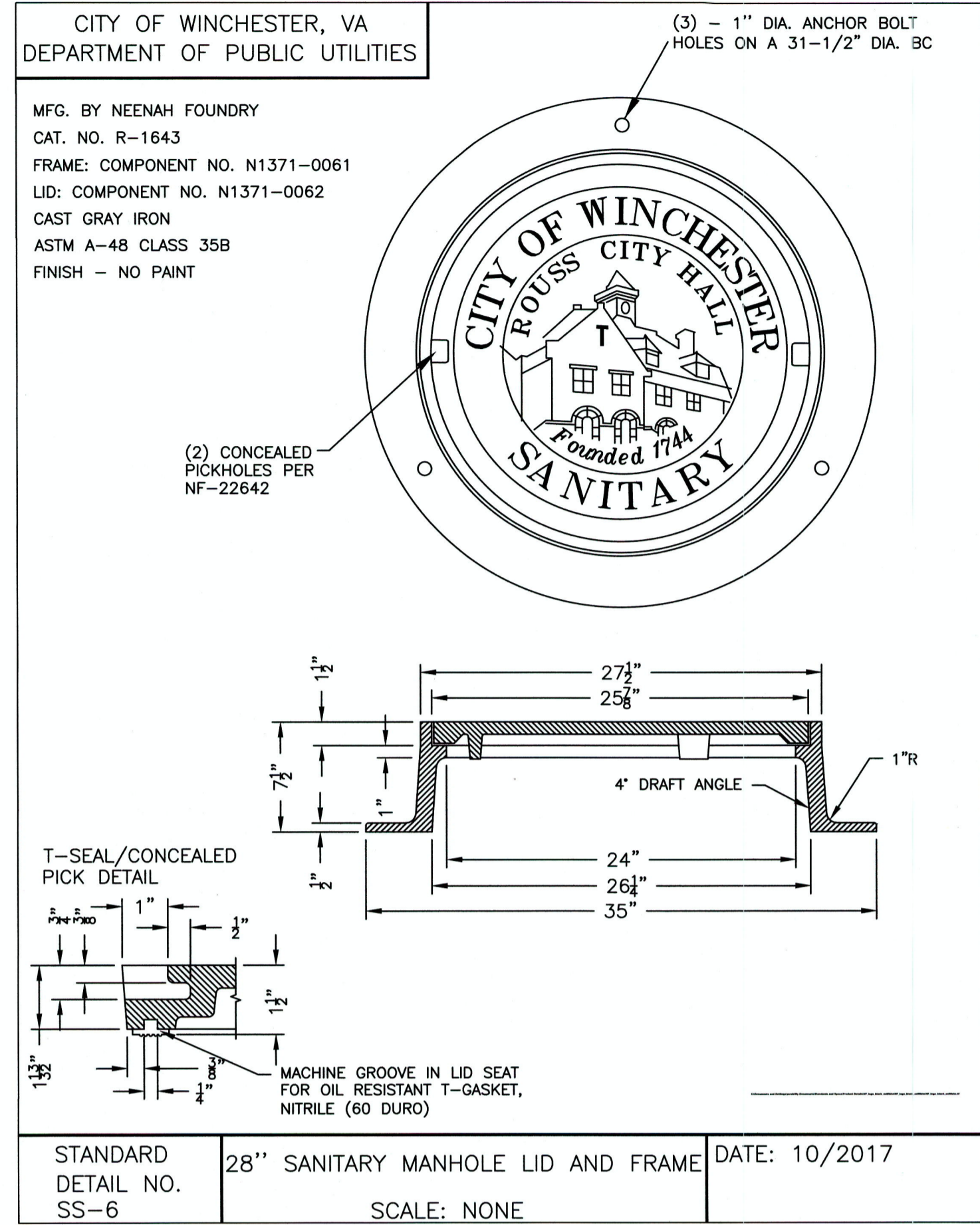
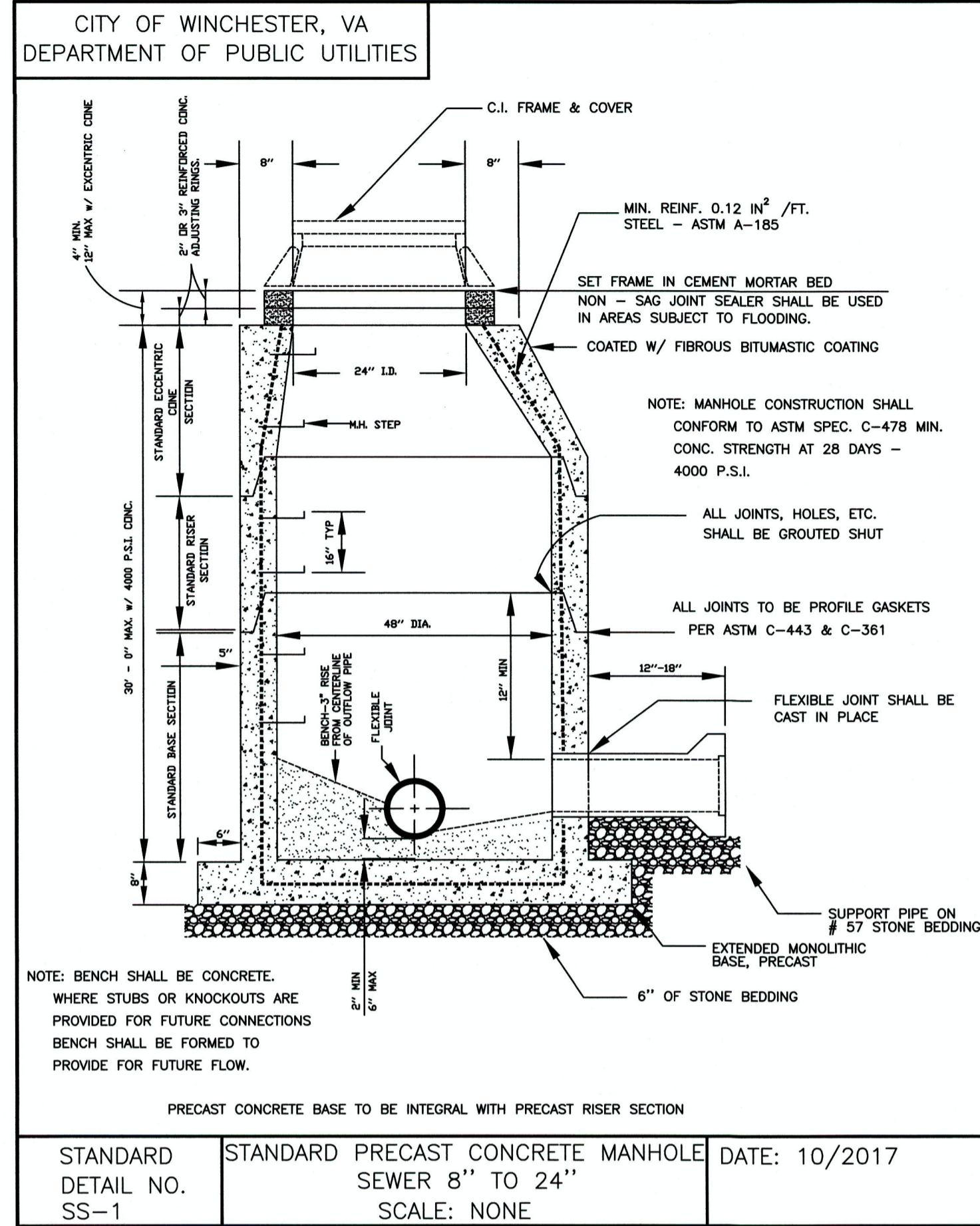
TITLE:
**SITE DEVELOPMENT PLANS:
SANITARY SEWER MAIN
PLAN and PROFILE**

PROJECT: **OAKCREST BUILDERS, INC.
THE LOFTS AT CREEKSIDE
CONDOMINIUM COMPLEX
3131 VALLEY AVENUE
(ROUTE 11 SOUTH)
WINCHESTER, VIRGINIA 22601**

PAINTER-LEWIS, P.L.C.
817 CEDAR CREEK GRADE, SUITE 120
WINCHESTER, VIRGINIA 22601
Telephone: (540) 662-5792
Facsimile: (540) 662-5793
Email: office@painterlewis.com

CONSULTING ENGINEERS

SURVEY:	C.I.:
P-L PLC	1'
DRAWN BY:	JOB NO.:
TGP	1802043
SCALE:	DATE:
1"=40.0'	09-09-19
SHEET:	



REVISIONS

NO.	DATE	DESCRIPTION

TITLE: **SITE DEVELOPMENT PLAN: SANITARY SEWER SYSTEM DETAILS**

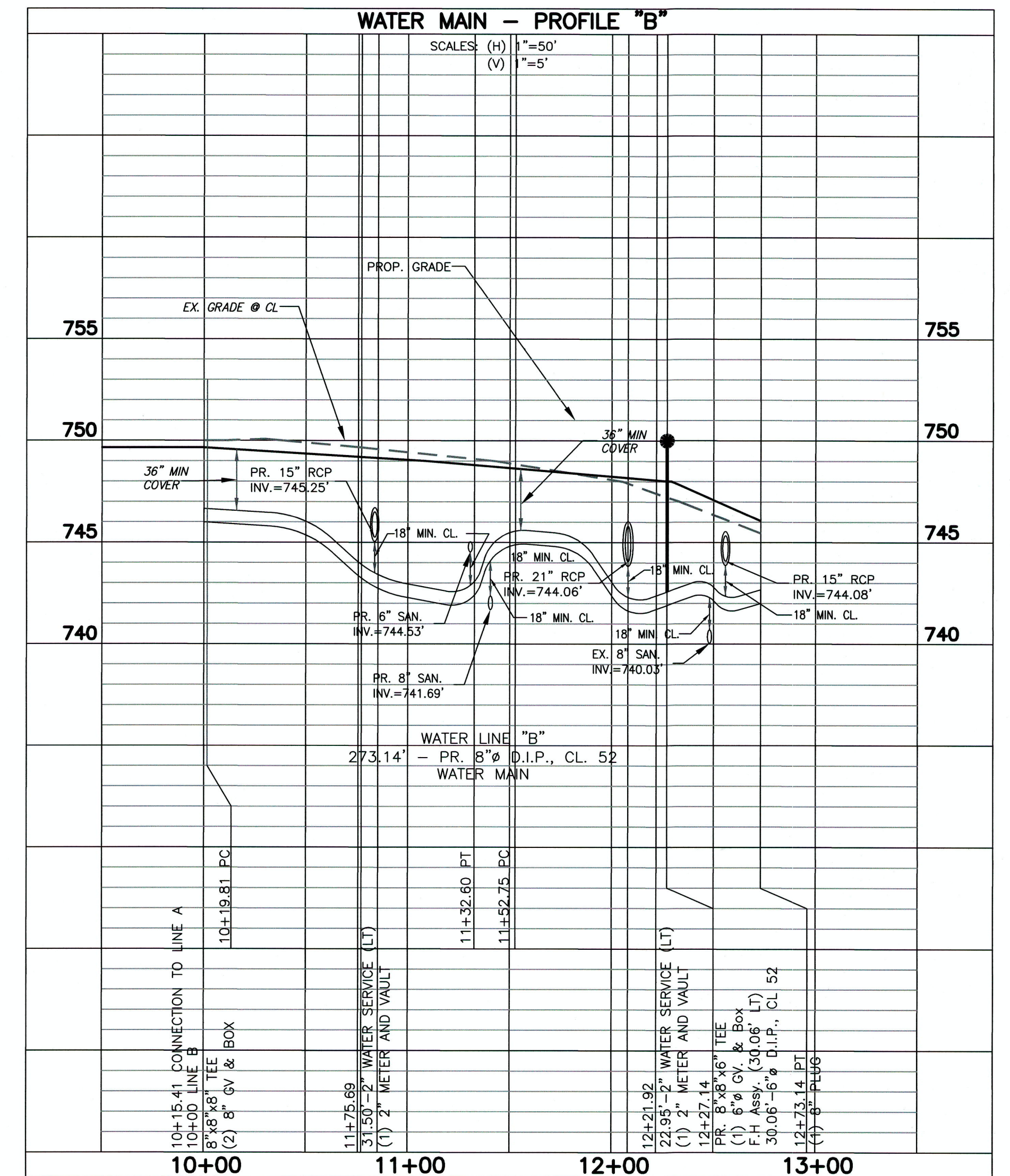
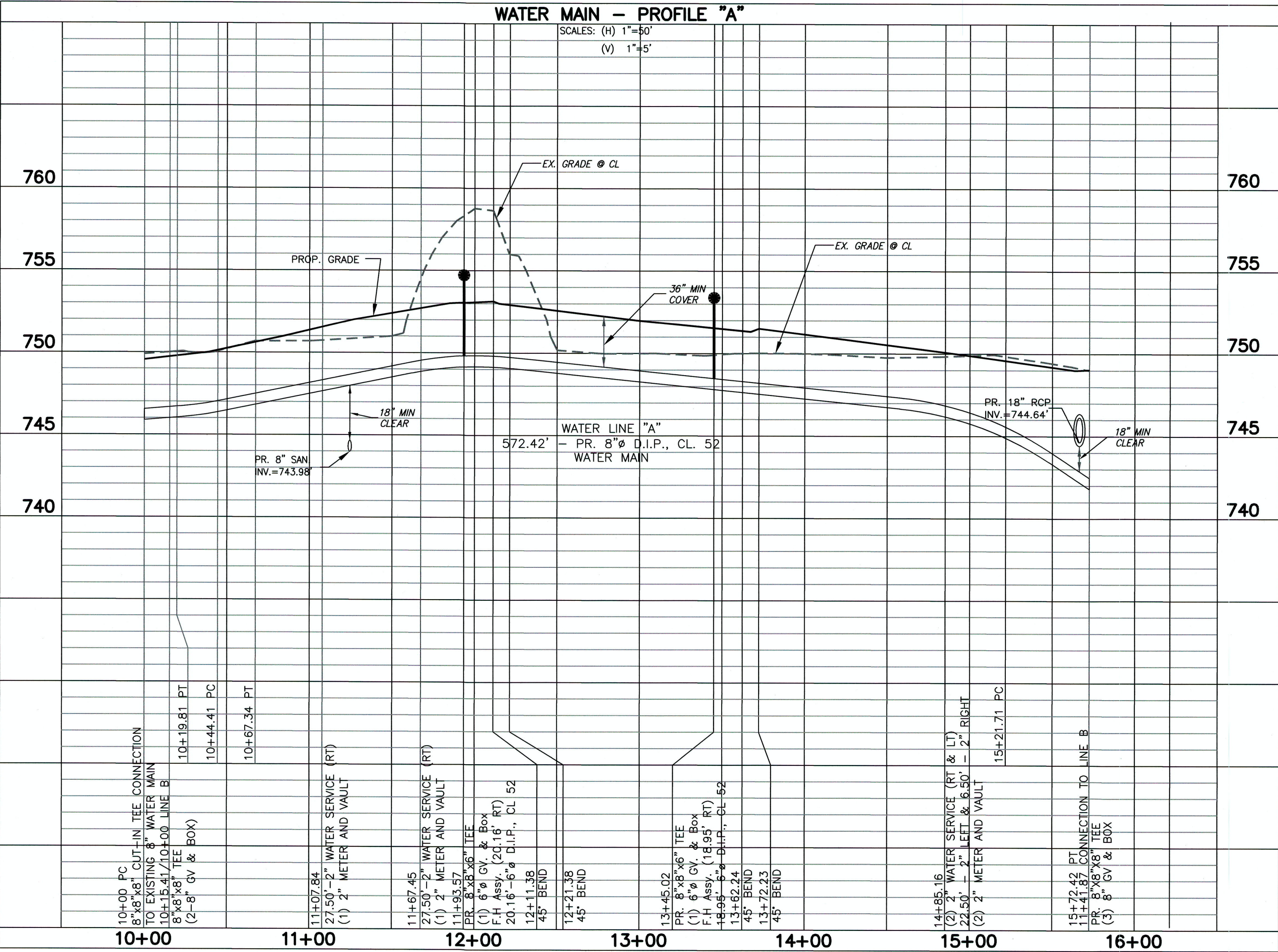
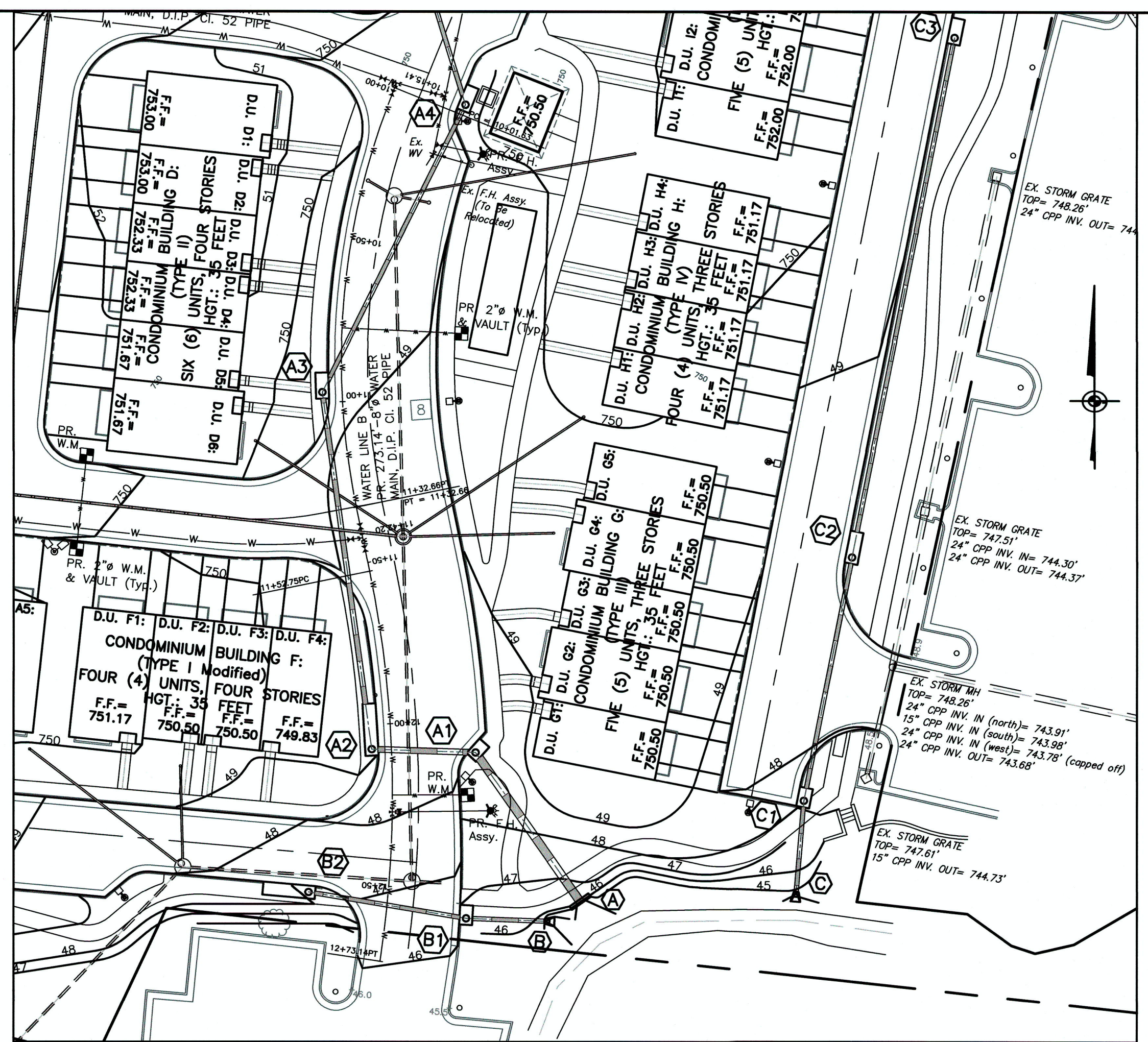
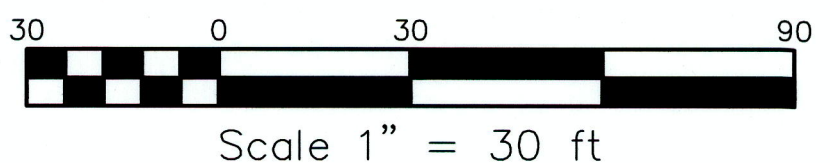
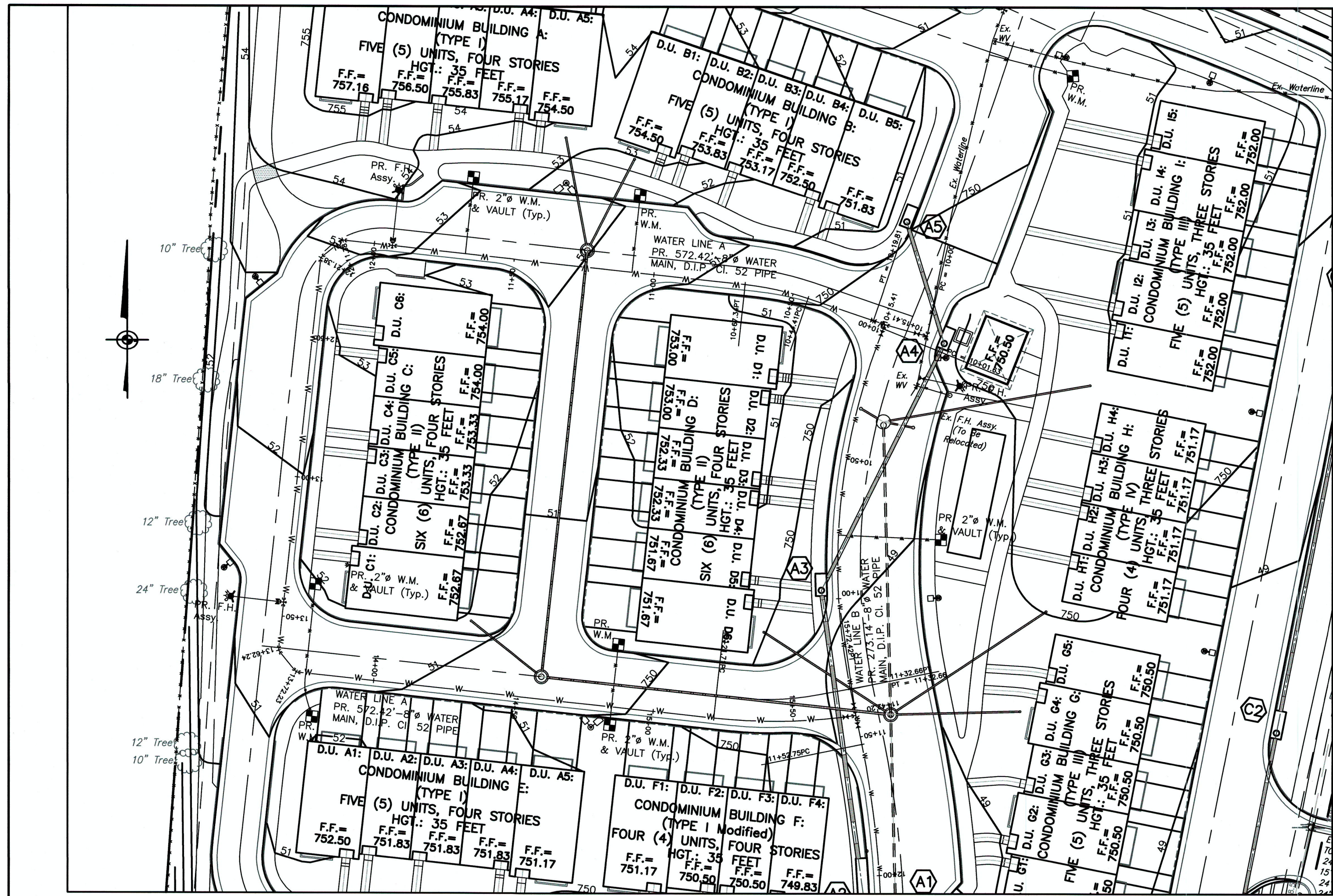
PROJECT: **OAKCREST BUILDERS, INC. THE LOFTS AT CREEKSIDE CONDOMINIUM COMPLEX 3131 VALLEY AVENUE (ROUTE 11 SOUTH) WINCHESTER, VIRGINIA 22601**

PAINTER-LEWIS, P.L.C.
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Telephone: (540) 682-5792
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Email: office@painterlewis.com

CONSULTING ENGINEERS

TIMOTHY G. PAINTER
Lic. No. 018280
09/19/19

SURVEY: P-L PLC C.I.: 1'
DRAWN BY: TGP JOB NO.: 1802043
SCALE: DATE: 09-09-19
SHEET: 17/20



PAINTER-LEWIS, P.L.C.
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WINCHESTER, VIRGINIA 22601
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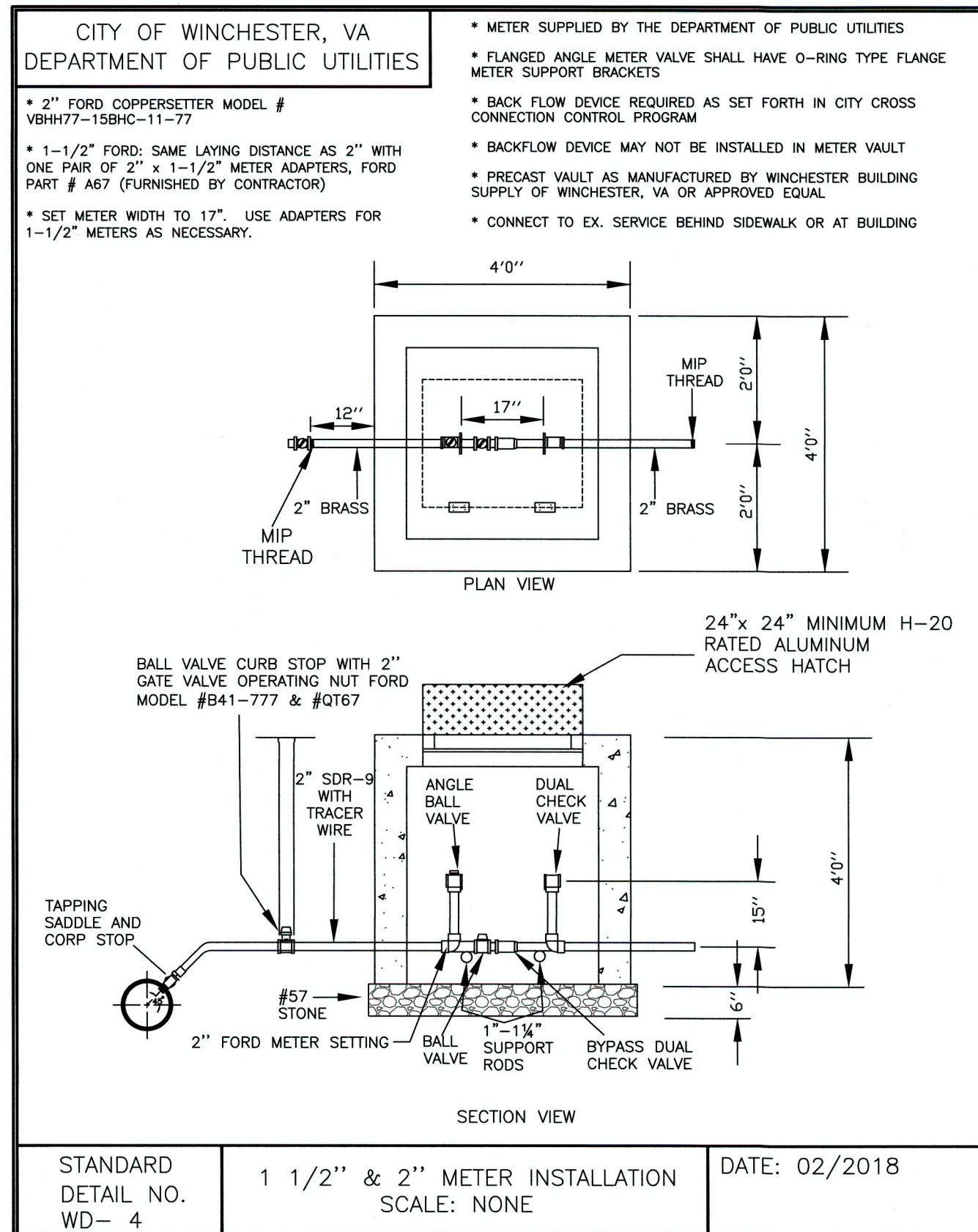
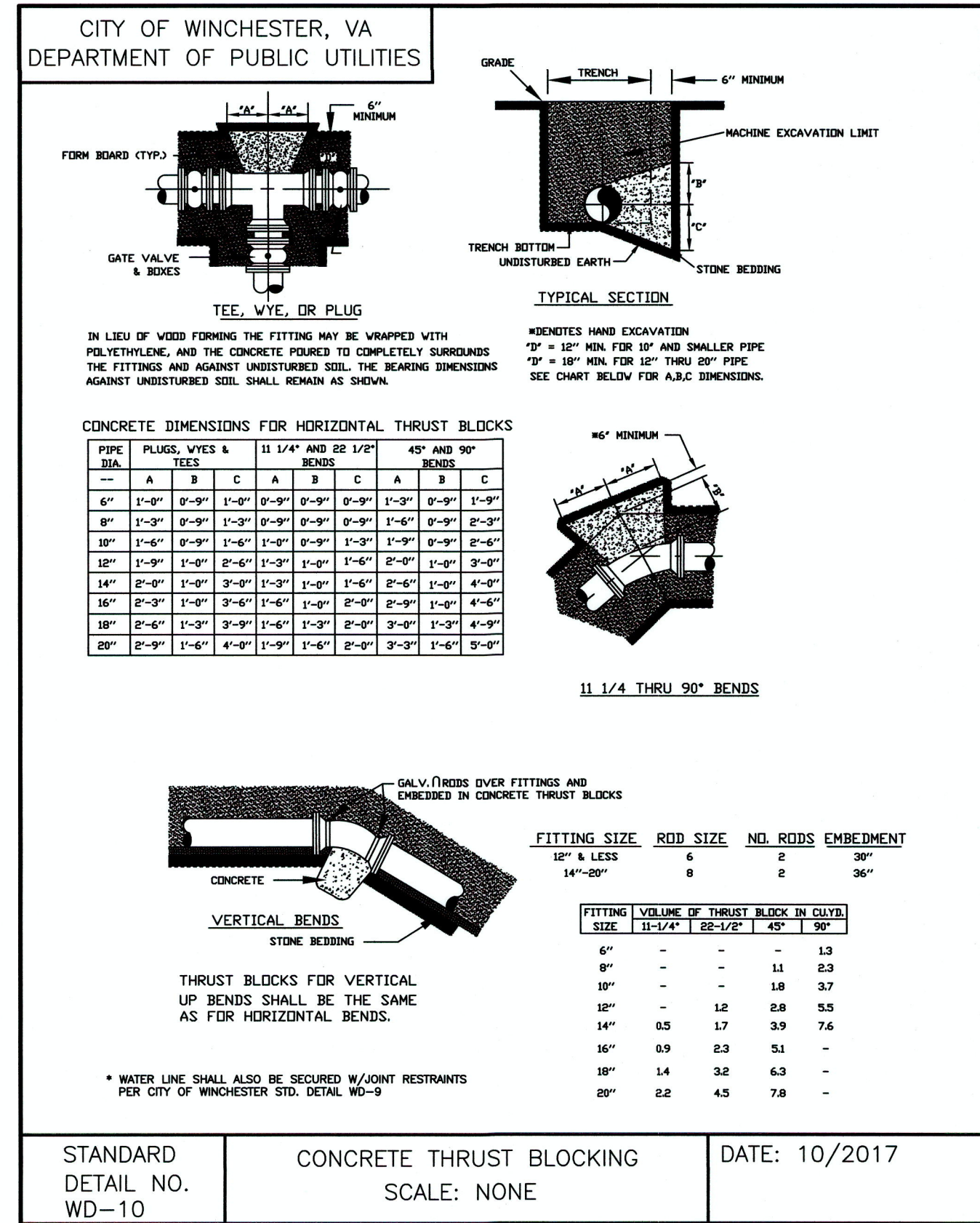
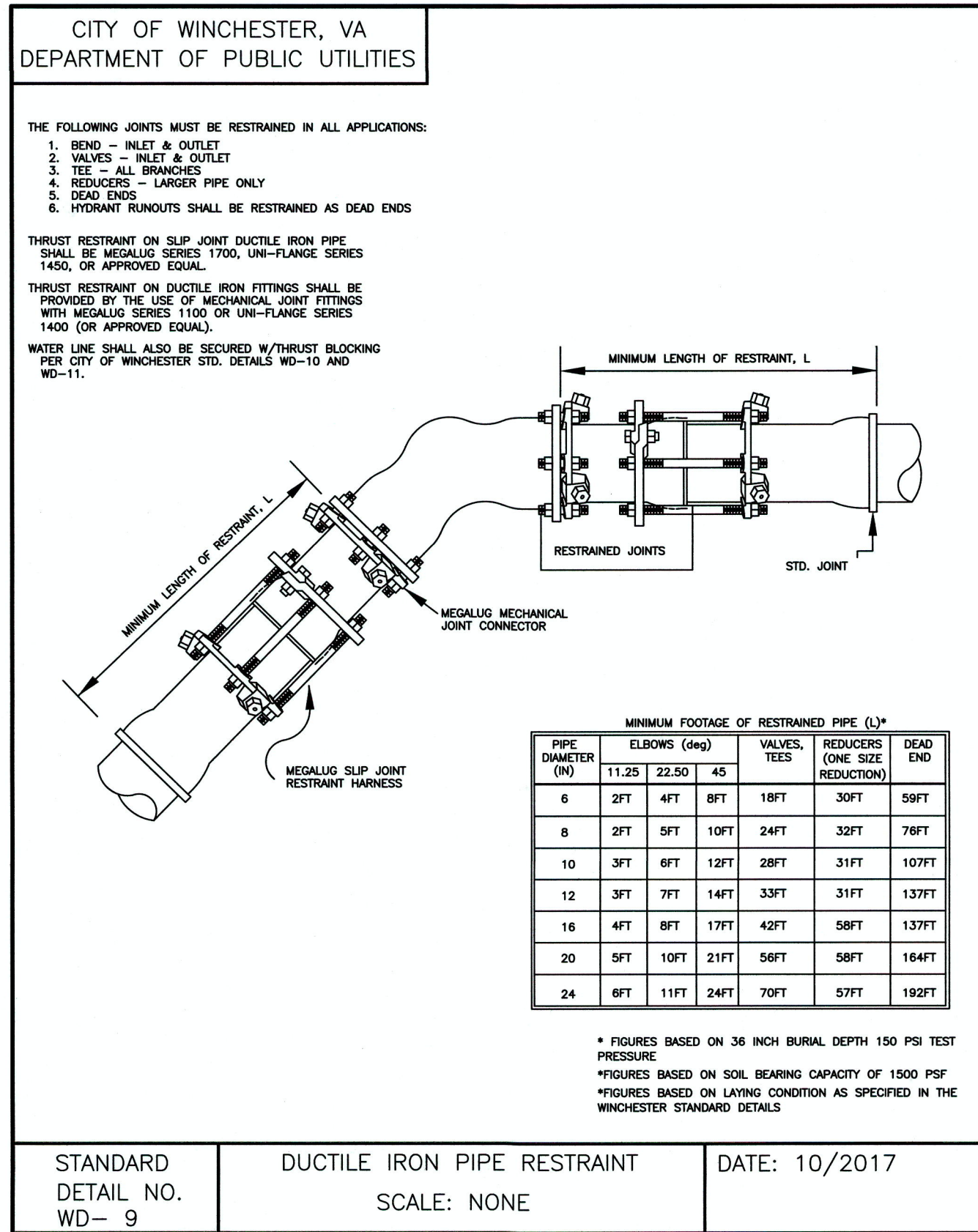
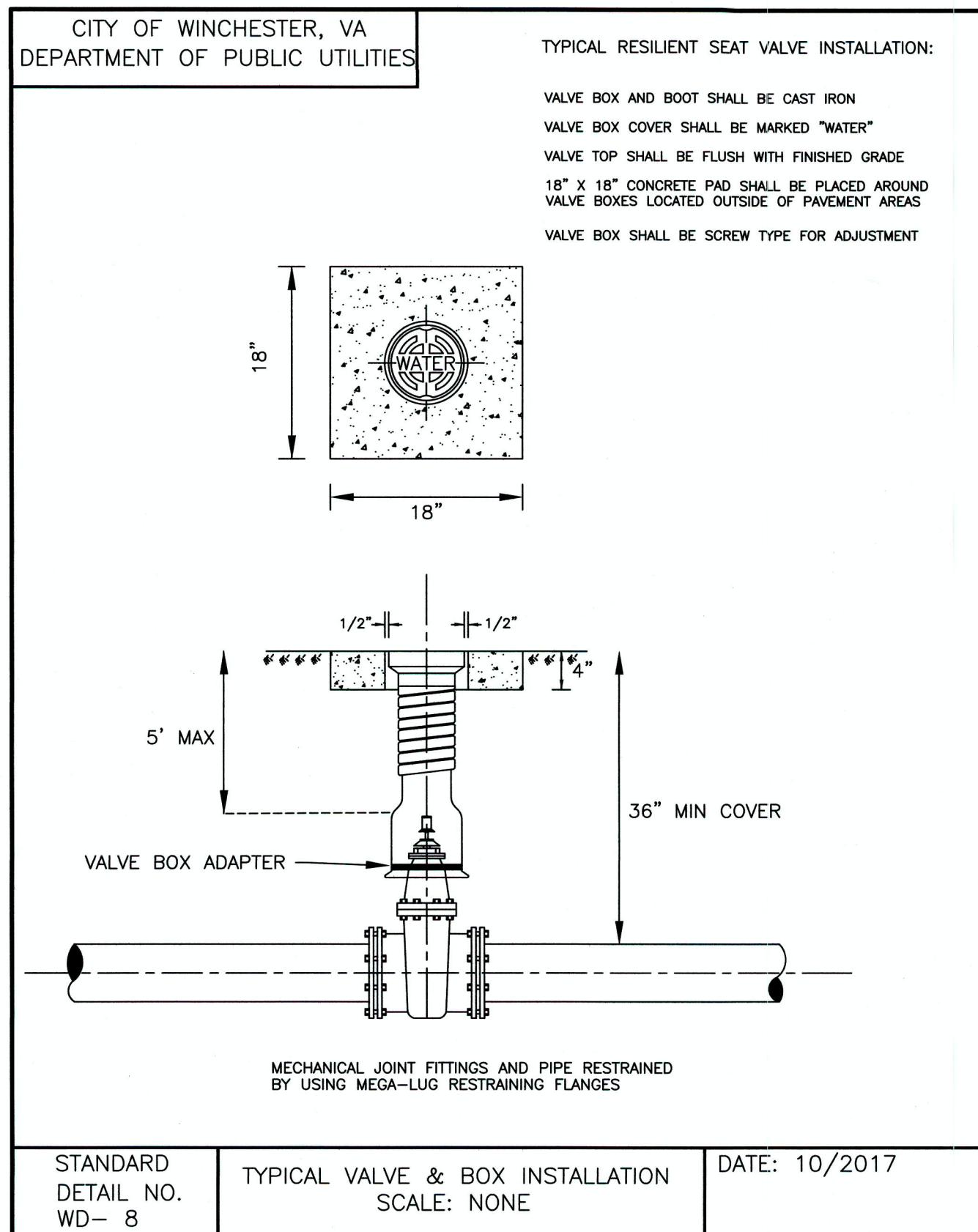
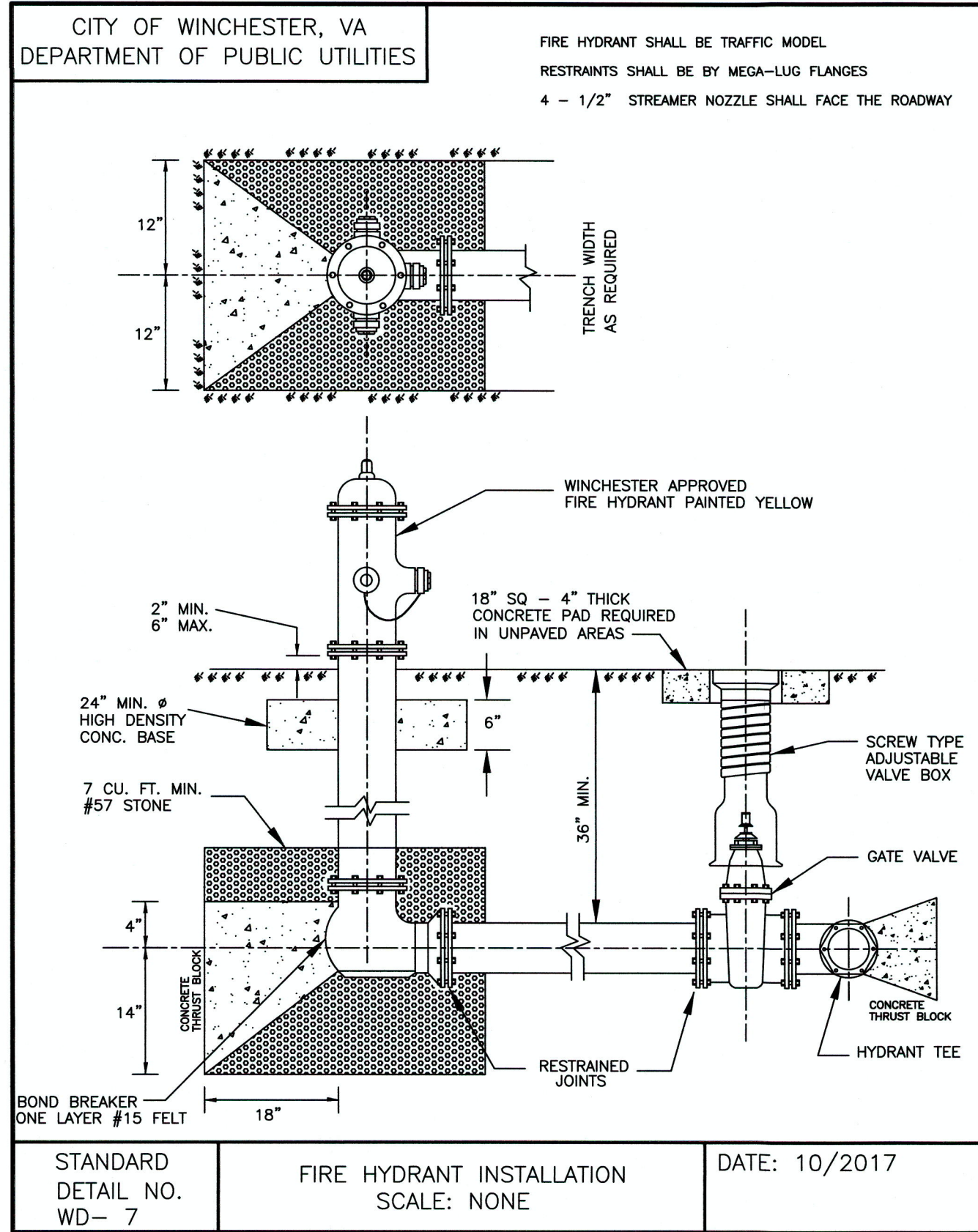
CONDOMINIUM HEALTH OF VIRGINIA
Timothy G. Painter
PROFESSIONAL ENGINEER
Lic. No. 018260
09/19/19

SURVEY: P-L PLC C.I.: 1'
DRAWN BY: TGP JOB NO.: 1802043
SCALE: 1"=30.0' 09-09-19
SHEET: 18/20

PROJECT: **OAKCREST BUILDERS, INC.**
THE LOFTS AT CREEKSIDE
CONDOMINIUM COMPLEX
3131 VALLEY AVENUE
(ROUTE 11 SOUTH)
WINCHESTER, VIRGINIA 22601

TITLE: **SITE DEVELOPMENT PLANS:**
WATER LINE PLANS and PROFILES:
LINE A & LINE B

NO.	DATE	DESCRIPTION	BY

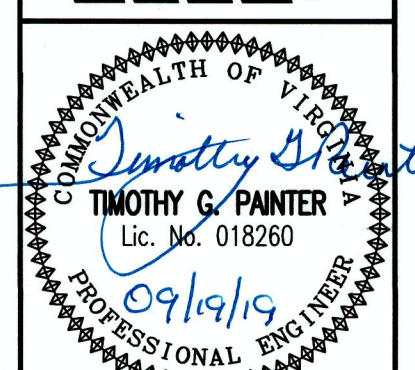
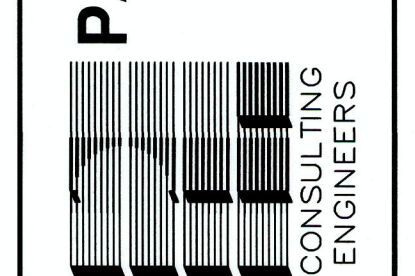


NO.	DATE	DESCRIPTION	BY

TITLE: SITE DEVELOPMENT PLAN: WATER SYSTEM DETAILS

PROJECT: OAKCREST BUILDERS, INC. THE LOFTS AT CREEKSIDE CONDOMINIUM COMPLEX 3131 VALLEY AVENUE (ROUTE 11 SOUTH) WINCHESTER, VIRGINIA 22601

PAINTER-LEWIS, P.L.C.
817 CEDAR CREEK GRADE, SUITE 120
WINCHESTER, VIRGINIA 22601
Telephone: (540) 662-5792
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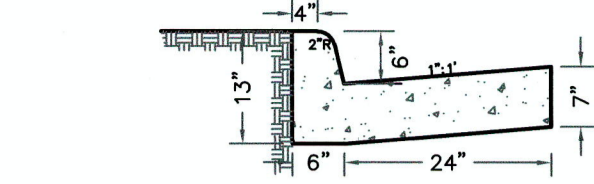


SURVEY: C.L.:
P-L PLC 1'

DRAWN BY: JOB NO.:
TGP 1802043

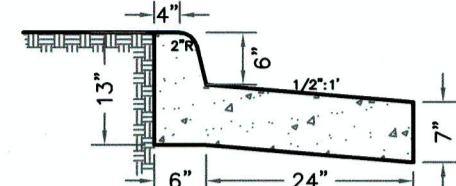
SCALE: DATE:
1"=30.0' 09-09-19

SHEET:



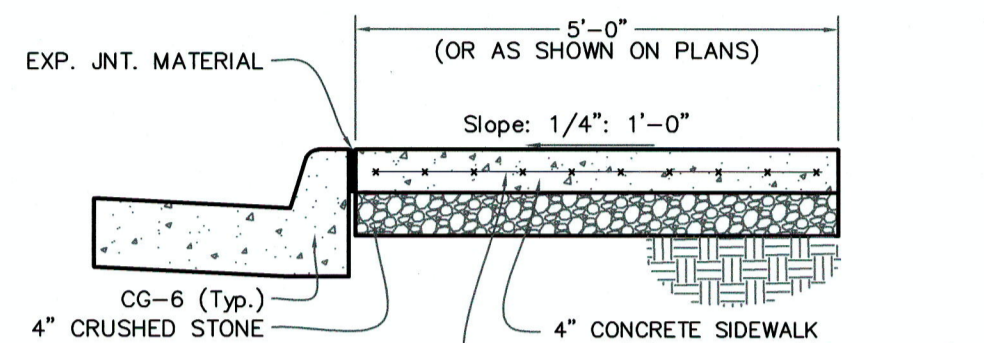
6" COMBINATION CURB & GUTTER (CG-6)

N.T.S.
(SEE V.D.O.T. (CG-6) & WDOT ROAD AND BRIDGE STANDARDS FOR ADDITIONAL INFORMATION.)



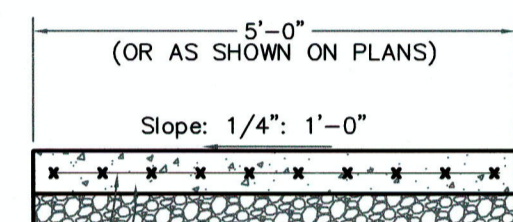
6" COMBINATION CURB & GUTTER REVERSED (CG-6R)

N.T.S.



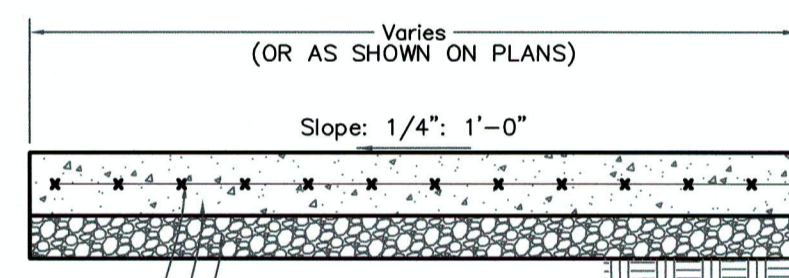
ON-SITE 4" CONCRETE SIDEWALK DETAIL

N.T.S.



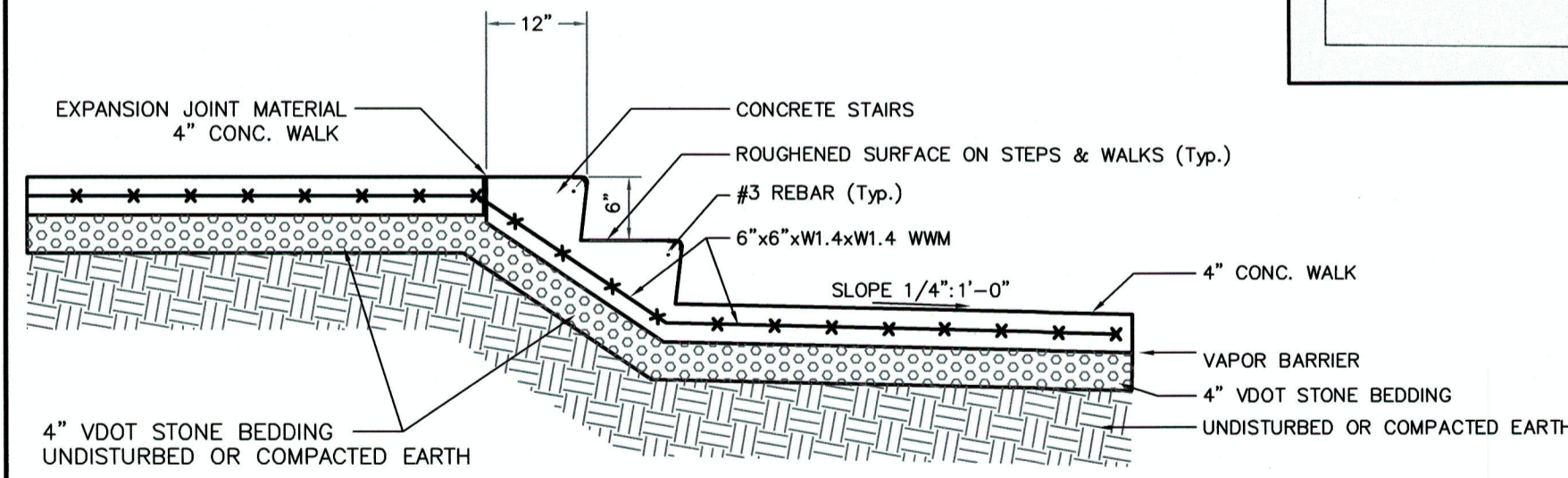
PRIVATE WALKWAYS: 4" CONCRETE SIDEWALK DETAIL

N.T.S.



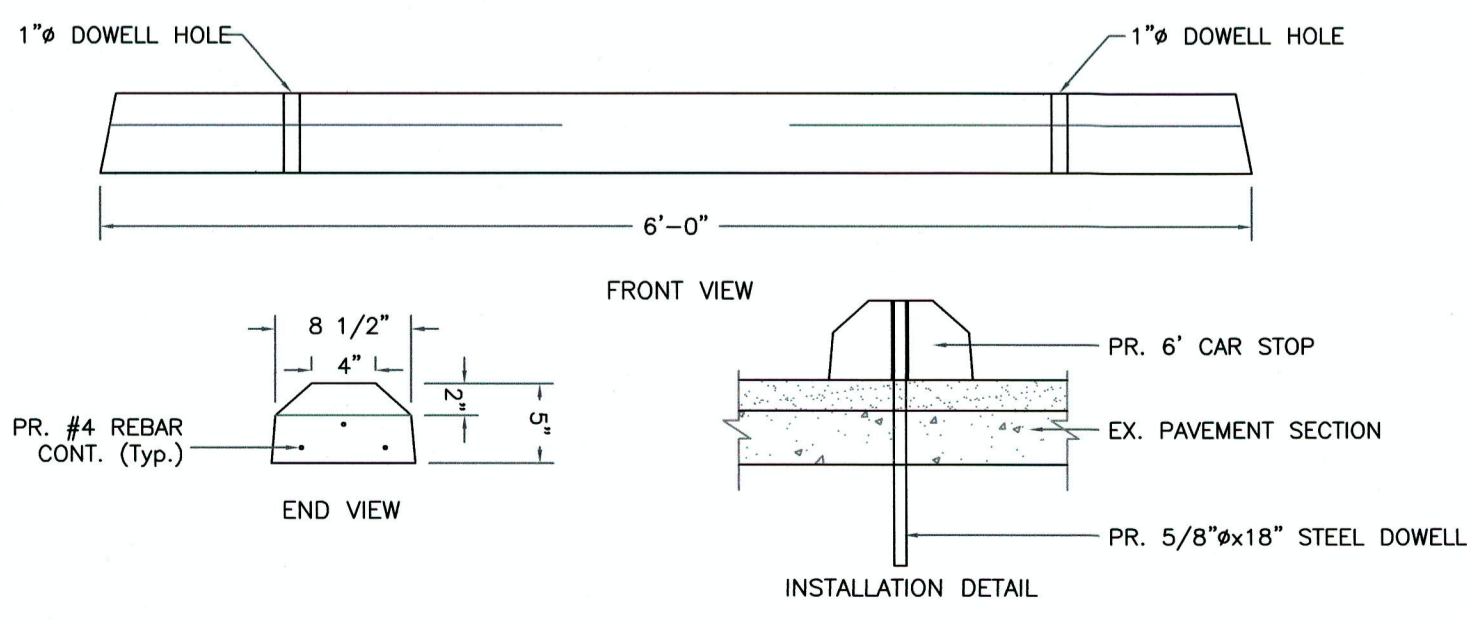
PRIVATE DRIVEWAYS: 4" CONCRETE SLAB-ON-GRADE DETAIL

N.T.S.



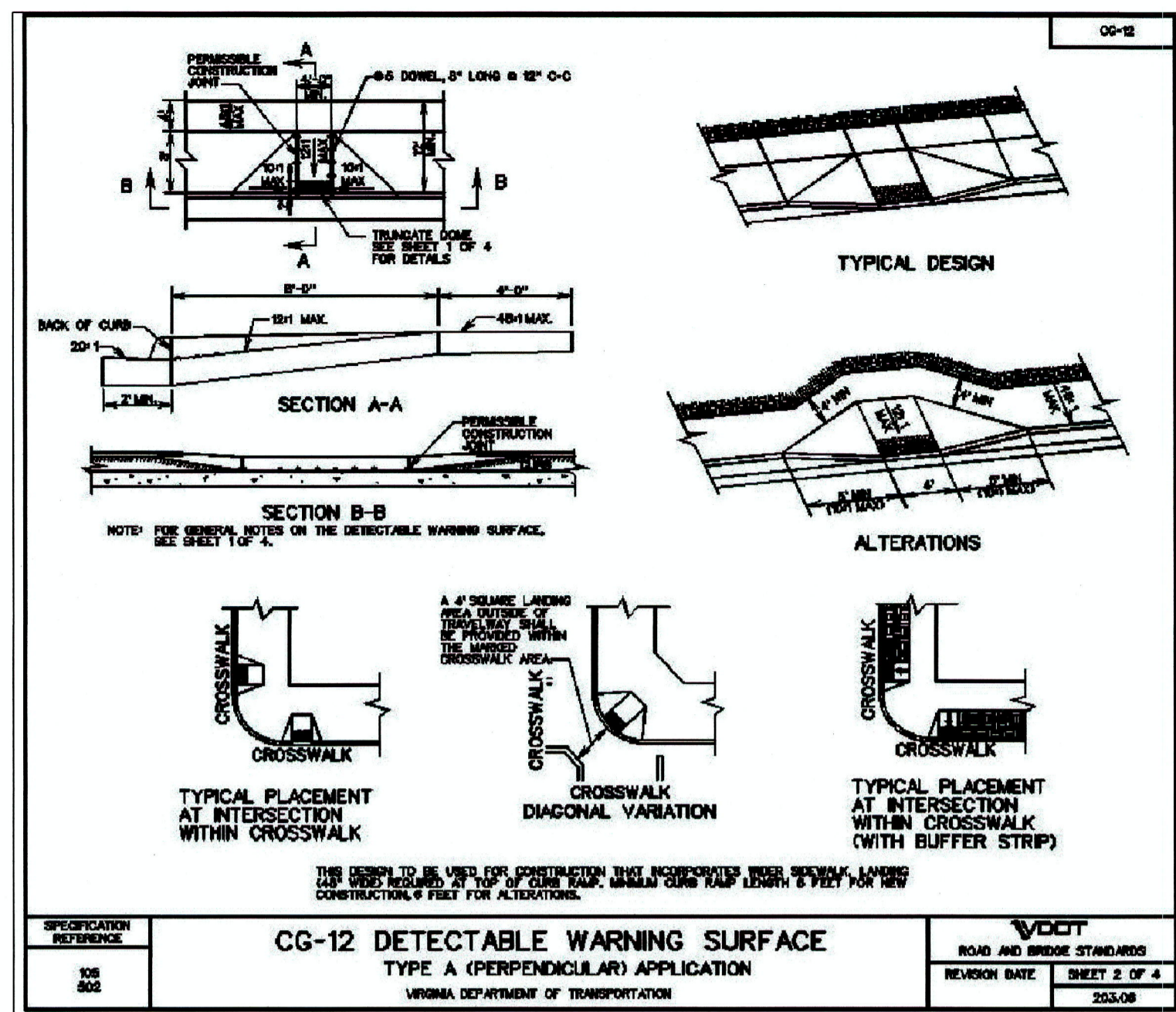
ON-SITE: TYPICAL EXTERIOR CONCRETE STEP DETAIL

N.T.S.



TIMBER OR PRE-CAST CONCRETE CURB DETAIL

N.T.S.



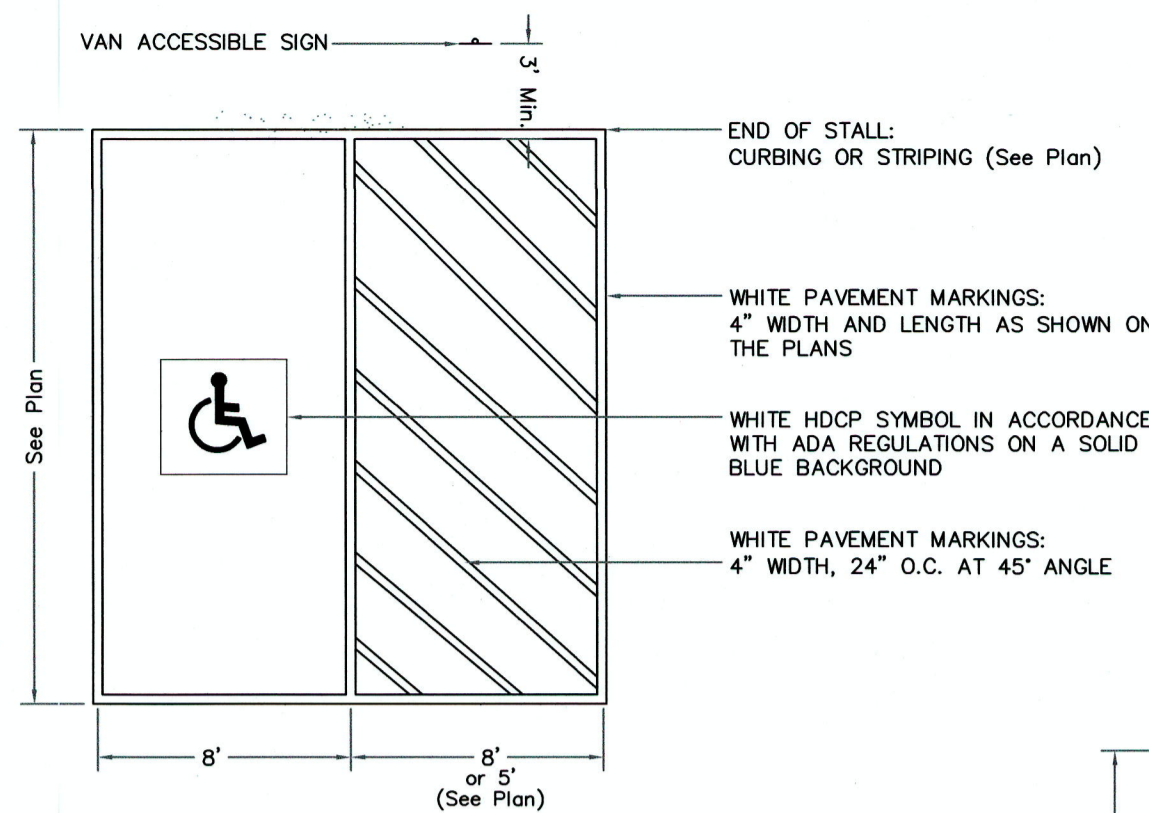
CG-12 DETECTABLE WARNING SURFACE

TYPE A (PERPENDICULAR) APPLICATION

VDOT ROAD AND BRIDGE STANDARDS

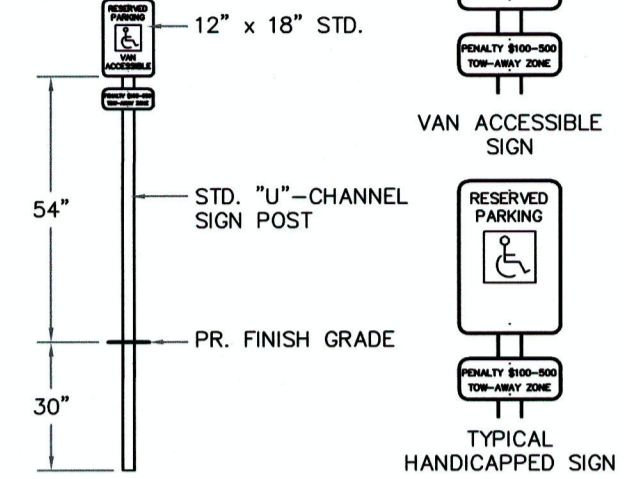
REVISION DATE: SHEET 2 OF 4

2013.08



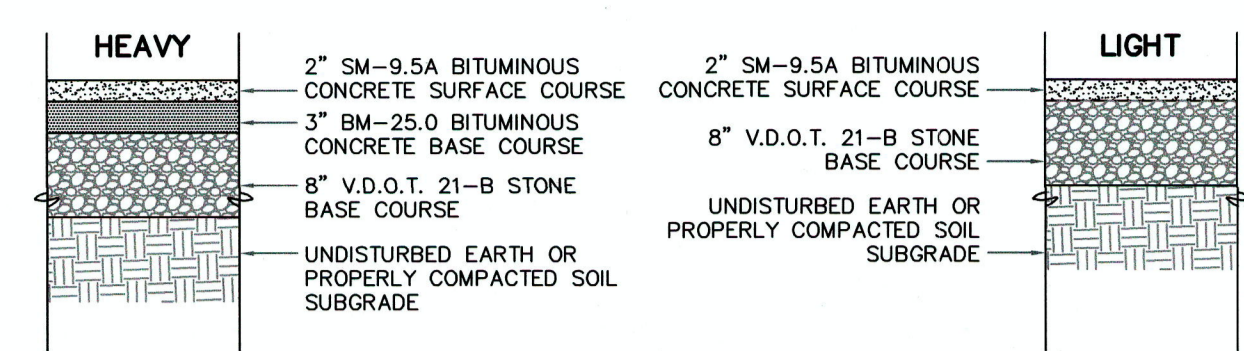
HANDICAPPED SPACES: PARKING LOT STRIPING DETAILS

N.T.S.



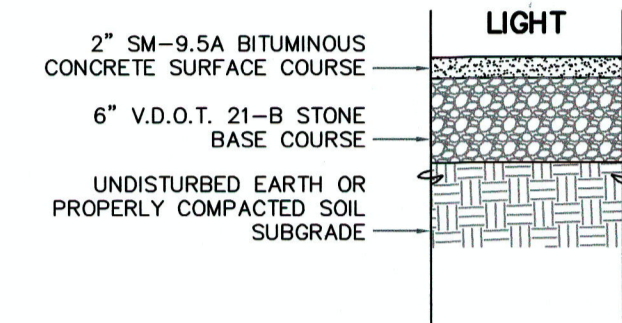
HANDICAP SIGN DETAIL

N.T.S.



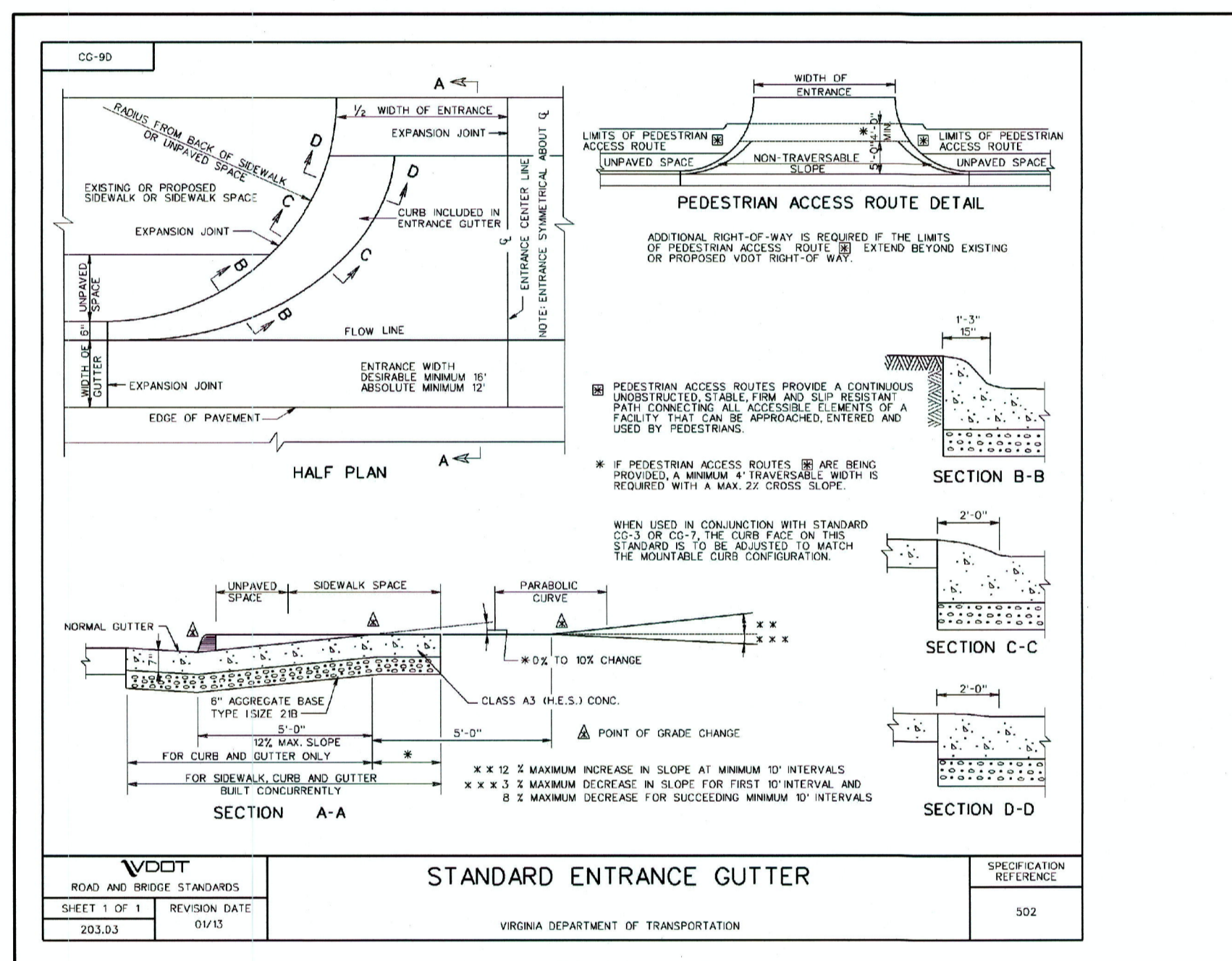
ON-SITE PAVEMENT DETAILS

N.T.S.



ON-SITE PEDESTRIAN TRAIL PAVEMENT DETAIL

N.T.S.

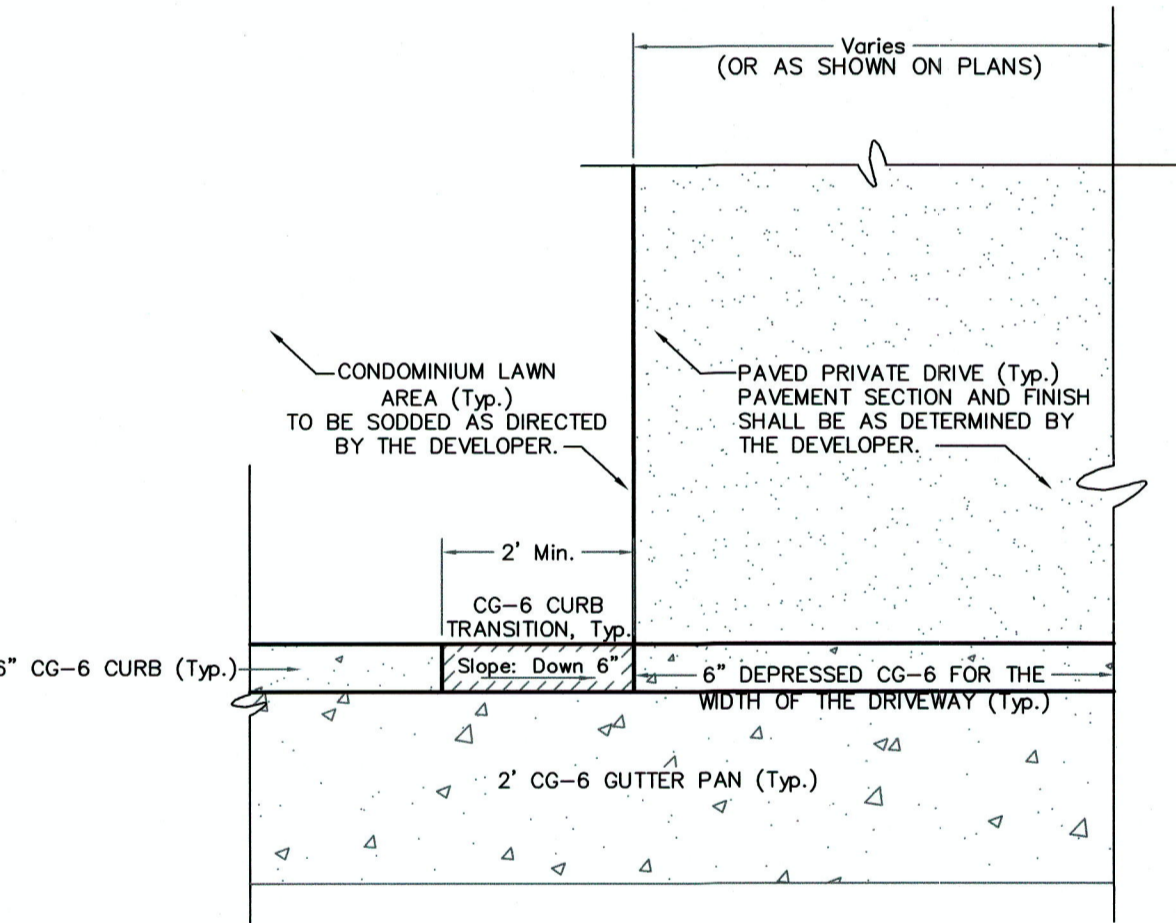


STANDARD ENTRANCE GUTTER

NOTE: OPTIONAL ENTRANCE DETAIL - THIS ENTRANCE DETAIL MAY BE USED FOR THIS PROJECT, AS DIRECTED BY THE DEVELOPER. VERIFY THE USE OF THIS ENTRANCE PRIOR TO THE BIDDING PROCESS. - IF USED, THE DEPTH OF THE CONCRETE ENTRANCE FROM THE GUTTER PAN SHALL BE FIVE FEET (5').

PRIVATE DRIVEWAYS: OPTIONAL CG-9D CONCRETE ENTRANCE DETAIL

N.T.S.



PRIVATE DRIVEWAYS: DEPRESSED CONCRETE ENTRANCE DETAIL

N.T.S.

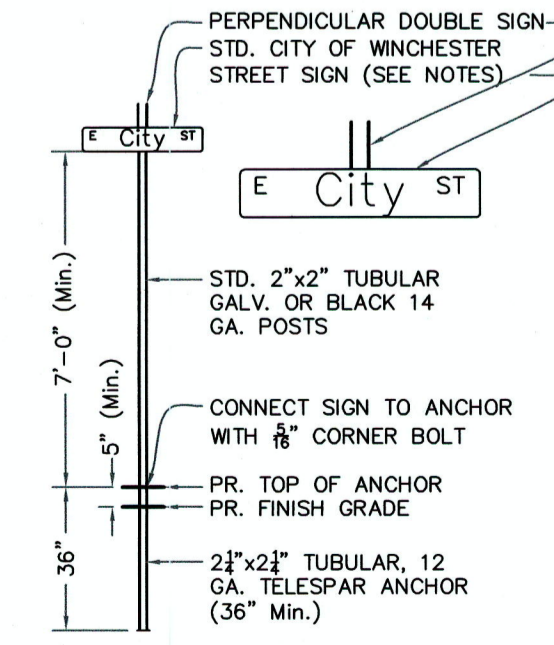


R1-1

30"x30"

STOP SIGN

SIGN KEY

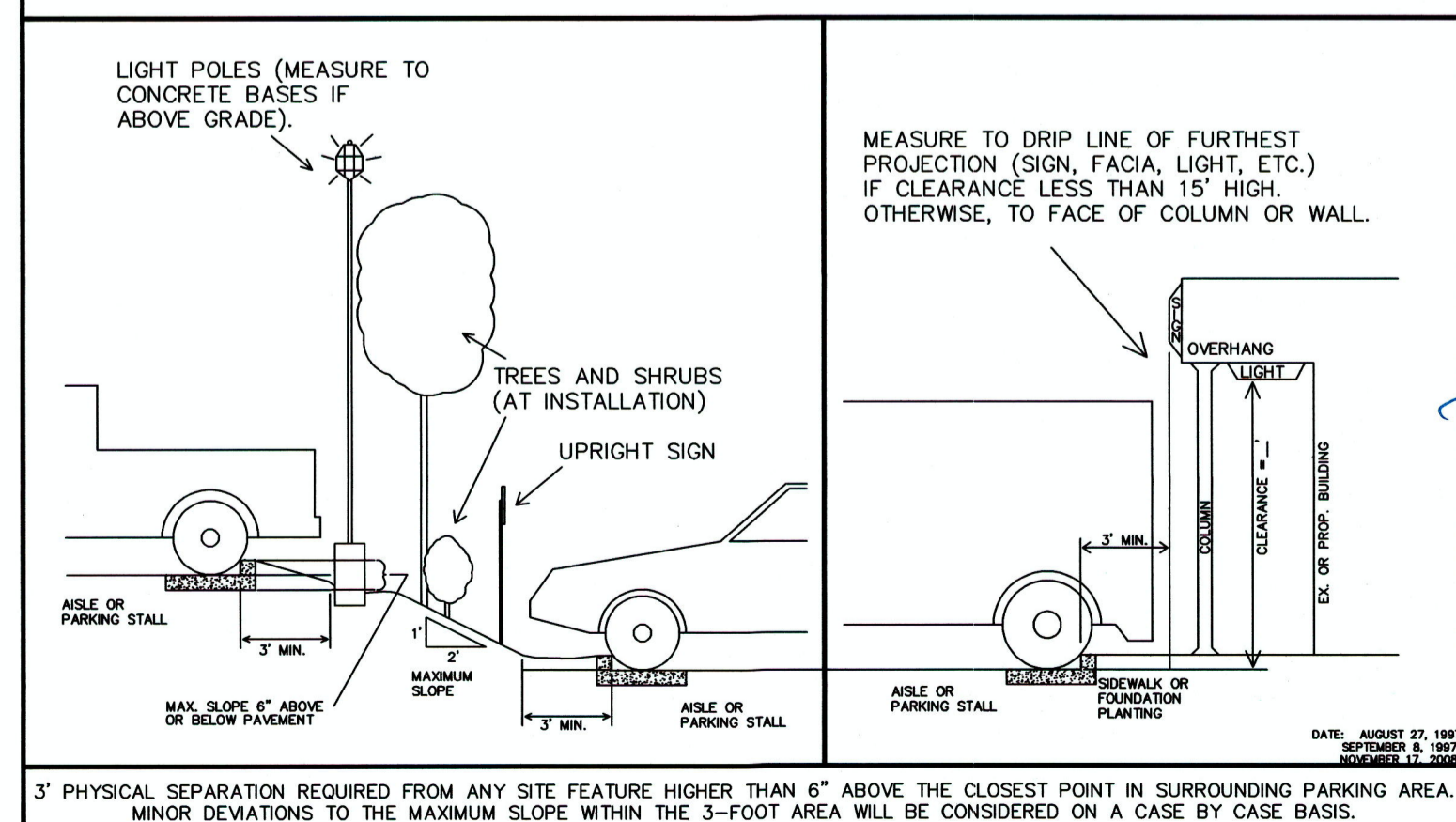


TYPICAL CITY OF WINCHESTER STREET NAME SIGN DETAIL

N.T.S.

NOTE: CITY OF WINCHESTER STREET SIGN
1. STREET SIGNS SHALL BE PLACED ON TWO OPPOSITE CORNERS OF AN INTERSECTION.
2. SIGNS SHALL BE DOUBLED ON THE POST.
3. STREET SIGNS SHALL BE MADE OF 3mm DIAMOND GRADE D03 REFLECTIVE SHEETING.
4. STREET SIGNS SHALL BE CUT FROM 3mm ELECTROCUIT FILM.
a. BLACK FILM MUST BE USED IN THE DOWNTOWN HISTORIC DISTRICT FOR ALL PUBLIC STREETS. LETTERS & BORDER SHALL BE WHITE.
b. WHITE FILM MUST BE USED IN THE DOWNTOWN HISTORIC DISTRICT FOR ALL PRIVATE STREETS. LETTERS & BORDER SHALL BE BLACK.
c. GREEN FILM SHALL BE USED FOR PUBLIC STREETS IN ALL OTHER AREAS. LETTERS & BORDER SHALL BE WHITE.
d. WHITE FILM SHALL BE USED FOR PRIVATE STREETS IN ALL OTHER AREAS. LETTERS & BORDER SHALL BE GREEN.
5. THE STREET NAME SIGNS WILL BE INSTALLED ON 0.80 GA. ALUMINUM WITH 1/2" CORNER RADIUS.
a. THE ALUMINUM SHALL BE 6"x12", 6"x18", 6"x24", 6"x30", OR 6"x36", AS REQUIRED FOR SIGNAGE.
6. THE STREET NAME SHALL BE 4" LETTERS WITH ONLY THE FIRST LETTER CAPITALIZED.
7. THE PREFIX & SUFFIX SHALL BE 2" CAPITALIZED LETTERS WITH A 2" VERTICAL OFFSET. (SEE DETAIL).
8. THE SIGNS SHALL BE ATTACHED TO THE POST WITH A 1/2" DRIVE RIVET.
9. ALL STREET SIGNS SHALL HAVE A 1/2" BORDER AROUND THE FILM.
10. ALL STREET NAME SIGNS USED ON ROADWAYS WITH A SPEED LIMIT GREATER THAN 35 MPH SHALL BE AS FOLLOWS:
a. THE ALUMINUM SHALL BE 9"x12", 9"x18", 9"x24", 9"x30", OR 9"x36", AS REQUIRED FOR SIGNAGE WITH A 1/2" CORNER RADIUS.
b. THE STREET NAME SHALL CONSIST OF 6" LETTERS.
c. THE PREFIX & SUFFIX SHALL BE 3" CAPITALIZED LETTERS WITH A 3" VERTICAL OFFSET.

**CITY OF WINCHESTER, VIRGINIA
DETAIL OF REQUIRED 3-FOOT SEPARATION (Per Section 18-6-2.3)**

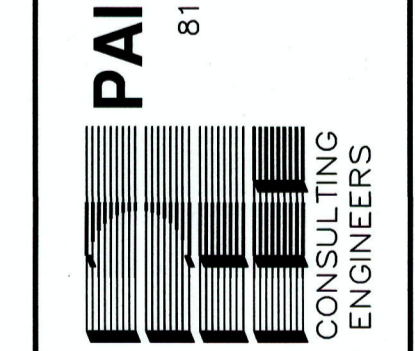


NO.	DATE	DESCRIPTION	BY

TITLE: **SITE DEVELOPMENT PLAN: MISCELLANEOUS CONSTRUCTION DETAILS**

PROJECT: **OAKCREST BUILDERS, INC. THE LOFTS AT CREEKSIDE CONDOMINIUM COMPLEX 3131 VALLEY AVENUE (ROUTE 11 SOUTH) WINCHESTER, VIRGINIA 22601**

PAINTER-LEWIS, P.L.C.
817 CEDAR CREEK GRADE, SUITE 120
WINCHESTER, VIRGINIA 22601
Telephone: (540) 662-5792
Facsimile: (540) 662-5793
Email: office@painterlewis.com



SURVEY: P-L-PLC C.I.: 1'
DRAWN BY: TGP JOB NO.: 1802043
SCALE: 1"=30.0' DATE: 09-09-19
SHEET: 20/20