

# Preliminary Subdivision Application

## Site Review

Planning and Development Customer Service Center • One Exchange Plaza, Suite 400 | Raleigh, NC 27601 | 919-996-2500



**INSTRUCTIONS:** This form is used when submitting a Preliminary Subdivision (UDO Section 10.2.5). Please check the appropriate review type and include the plan checklist document. Please email all documents and your preliminary subdivision plans to [SiteReview@raleighnc.gov](mailto:SiteReview@raleighnc.gov).

DEVELOPMENT OPTIONS (UDO Chapter 2)		
<input type="checkbox"/> Conventional Subdivision	<input type="checkbox"/> Compact Development	<input type="checkbox"/> Conservation Development
<input type="checkbox"/> Cottage Court	<input type="checkbox"/> Flag lot	<input type="checkbox"/> Frequent Transit Development Option

*NOTE: Subdivisions may require City Council approval if located in a Historic Overlay District.*

GENERAL INFORMATION				
Scoping/sketch plan case number(s):				
Development name (subject to approval):				
Property Address(es):				
Recorded Deed PIN(s):				
<b>Building type(s):</b>	<input type="checkbox"/> Detached House	<input type="checkbox"/> Attached House	<input type="checkbox"/> Townhouse	<input type="checkbox"/> Apartment
<input type="checkbox"/> General Building	<input type="checkbox"/> Mixed Use Building	<input type="checkbox"/> Civic Building	<input type="checkbox"/> Open Lot	<input type="checkbox"/> Tiny House

### CURRENT PROPERTY OWNER/APPLICANT/DEVELOPER INFORMATION

<b>Current Property Owner(s) Names:</b>	
Company:	Title:
Address:	
Phone #:	Email:
<b>Applicant Name (If different from owner. See "who can apply" in instructions):</b>	
Relationship to owner: <input type="checkbox"/> Lessee or contract purchaser <input type="checkbox"/> Owner's authorized agent <input type="checkbox"/> Easement holder	
Company:	Address:
Phone #:	Email:

**NOTE: please attach purchase agreement or contract, lease or easement when submitting this form.**

<b>Developer Contact Names:</b>	
Company:	Title:
Address:	
Phone #:	Email:

**DEVELOPMENT TYPE + SITE DATE TABLE – ZONING INFORMATION**

Gross site acreage:			
Zoning districts (if more than one, provide acreage of each):			
Overlay district(s):	Inside City Limits?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Historic District/Landmark: N/A <input type="checkbox"/>
Conditional Use District (CUD) Case # Z-	Board of Adjustment Case # BOA-	Design Alternate Case # DA-	

**STORMWATER INFORMATION**

Imperious Area on Parcel(s): Existing (sf) _____ Proposed total (sf) _____	Impervious Area for Compliance (includes right-of-way): Existing (sf) _____ Proposed total (sf) _____
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**NUMBER OF LOTS AND DENSITY**

# of Detached House Lots:	# of Attached House Lots:	# of Townhouse Lots:
# of Tiny House Lots:	# of Open Lots:	# of Other Lots (Apartment, General, Mixed Use, Civic):
Total # of Lots:	Total # Dwelling Units:	
# of bedroom units (if known): 1br _____ 2br _____ 3br _____ 4br _____		
Proposed density for each zoning district (UDO 1.5.2.F):		

**APPLICANT SIGNATURE BLOCK**

Pursuant to state law (N.C. Gen. Stat. § 160D-403(a)), applications for development approvals may be made by the landowner, a lessee or person holding an option or contract to purchase or lease land, or an authorized agent of the landowner. An easement holder may also apply for development approval for such development as is authorized by the easement.

Acting as an authorized agent requires written permission from the property owner for the purposes of making this development approval and/or permit application. Written permission from the property owner to act as an authorized agent must be made available to the City of Raleigh upon request.

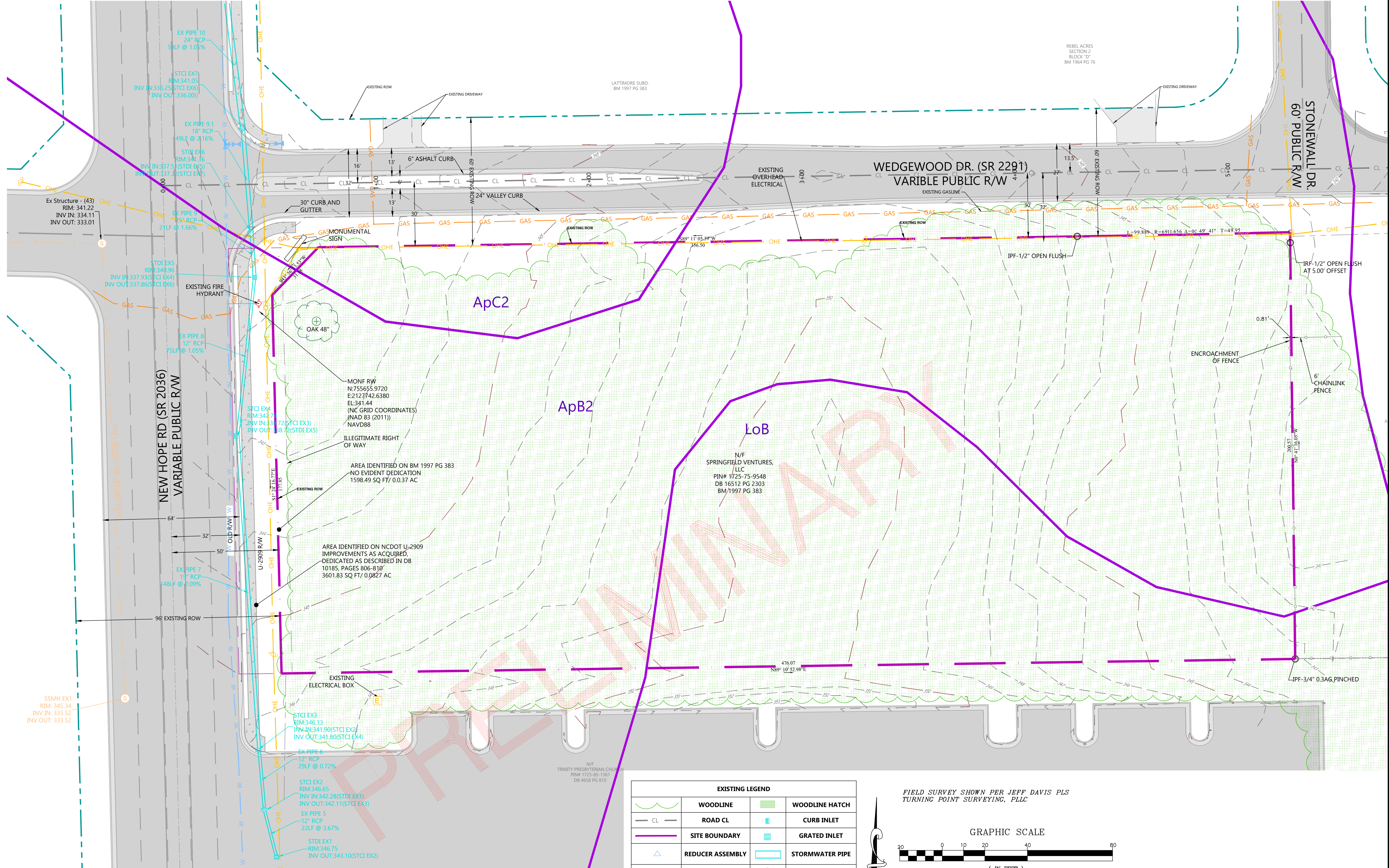
By submitting this application, the undersigned applicant acknowledges that they are either the property owner or one of the persons authorized by state law (N.C.G.S. 160D-403(a)) to make this application, as specified in the application. The undersigned also acknowledges that the information and statements made in the application are correct and the undersigned understands that development approvals are subject to revocation for false statements or misrepresentations made in securing the development approval, pursuant to N.C. Gen. Stat. § 160D-403(f).

The undersigned indicates that the property owner(s) is aware of this application and that the proposed project described in this application will be maintained in all respects in accordance with the plans and specifications submitted herewith, and in accordance with the provisions and regulations of the City of Raleigh Unified Development Ordinance.

The undersigned hereby acknowledges that, pursuant to state law (N.C.G.S. 143-755(b1)), if this permit application is placed on hold at the request of the applicant for a period of six consecutive months or more, or if the applicant fails to respond to comments or provide additional information requested by the City for a period of six consecutive months or more, then the application review is discontinued, and a new application is required to proceed and the development regulations in effect at the time permit processing is resumed shall apply to the new application.

Signature:	Date:
Printed Name:	
Signature:	Date:
Printed Name:	





Date Started:  
 1 September 2024  
 Scale: NTS  
 Drawn By: BAH  
 Printed Date:  
 29 September 2024  
 File:  
 C:\Users\Bryan.Harris\OneDrive\Documents\Projects\Wedgewood\Wedgewood X-File.dwg

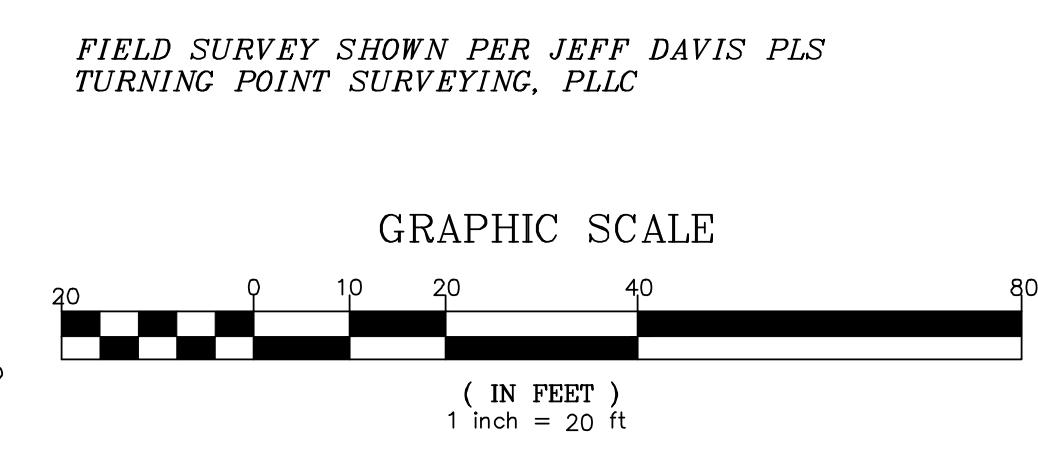
Revision:  
 NO REVISION @ THIS DATE

Preliminary Subdivision  
 Plan

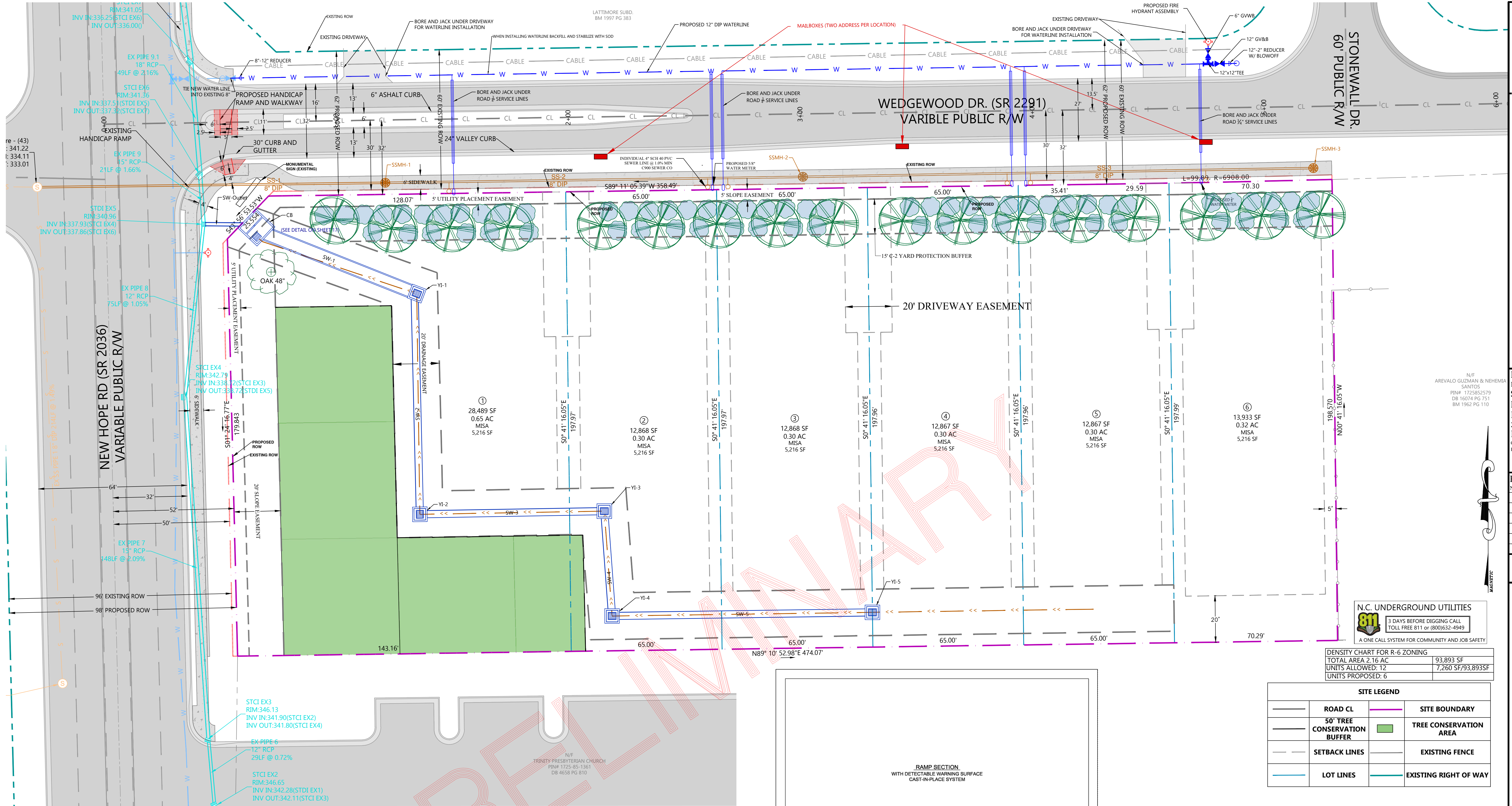
Existing Conditions  
 For  
**Spring Arces Subdivision**



EXISTING LEGEND			
	WOODLINE		WOODLINE HATCH
	ROAD CL		CURB INLET
	SITE BOUNDARY		GRATED INLET
	REDUCER ASSEMBLY		STORMWATER PIPE
	EXISTING WATERLINE		FIRE HYDRANT
	SOILS		SEWER LINE
	OVERHEAD UTILITY LINE		FENCELINE
	SEWER MANHOLE EX/PROPOSED		WATER VALVE
	U/G GAS LINE		WATER BLOWOFF
	UTILITY POLE		TELEPHONE PULLBOX



SOIL CLASSIFICATION LEGEND	
ApC2	APPLING SANDY LOAM, 6-10% SLOPES, MODERATELY ERODED
ApB2	APPLING SANDY LOAM, 2-6% SLOPES, MODERATE ERODED
LoB	LOUISBURG LOAMY SAND, 2-6% SLOPES



NEW HOPE RD (SR 2036)  
VARIABLE PUBLIC R/W

WEDGEWOOD DR. (SR 2291)  
VARIABLE PUBLIC R/W

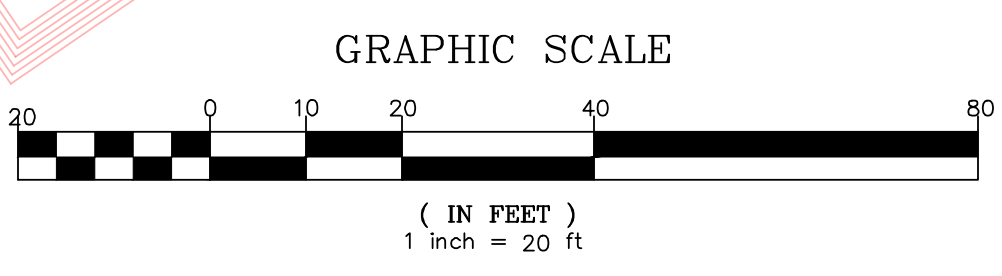
STONEWALL DR.  
60' PUBLIC R/W

- ① 28,489 SF  
0.65 AC  
MISA  
5,216 SF
- ② 12,868 SF  
0.30 AC  
MISA  
5,216 SF
- ③ 12,868 SF  
0.30 AC  
MISA  
5,216 SF
- ④ 12,867 SF  
0.30 AC  
MISA  
5,216 SF
- ⑤ 12,867 SF  
0.30 AC  
MISA  
5,216 SF
- ⑥ 13,933 SF  
0.32 AC  
MISA  
5,216 SF

**N.C. UNDERGROUND UTILITIES**  
811  
A ONE CALL SYSTEM FOR COMMUNITY AND JOB SAFETY

DENSITY CHART FOR R-6 ZONING	
TOTAL AREA: 2.16 AC	93,893 SF
UNITS ALLOWED: 12	7,260 SF/93,893 SF
UNITS PROPOSED: 6	

SITE LEGEND			
	ROAD CL		SITE BOUNDARY
	50' TREE CONSERVATION BUFFER		TREE CONSERVATION AREA
	SETBACK LINES		EXISTING FENCE
	LOT LINES		EXISTING RIGHT OF WAY



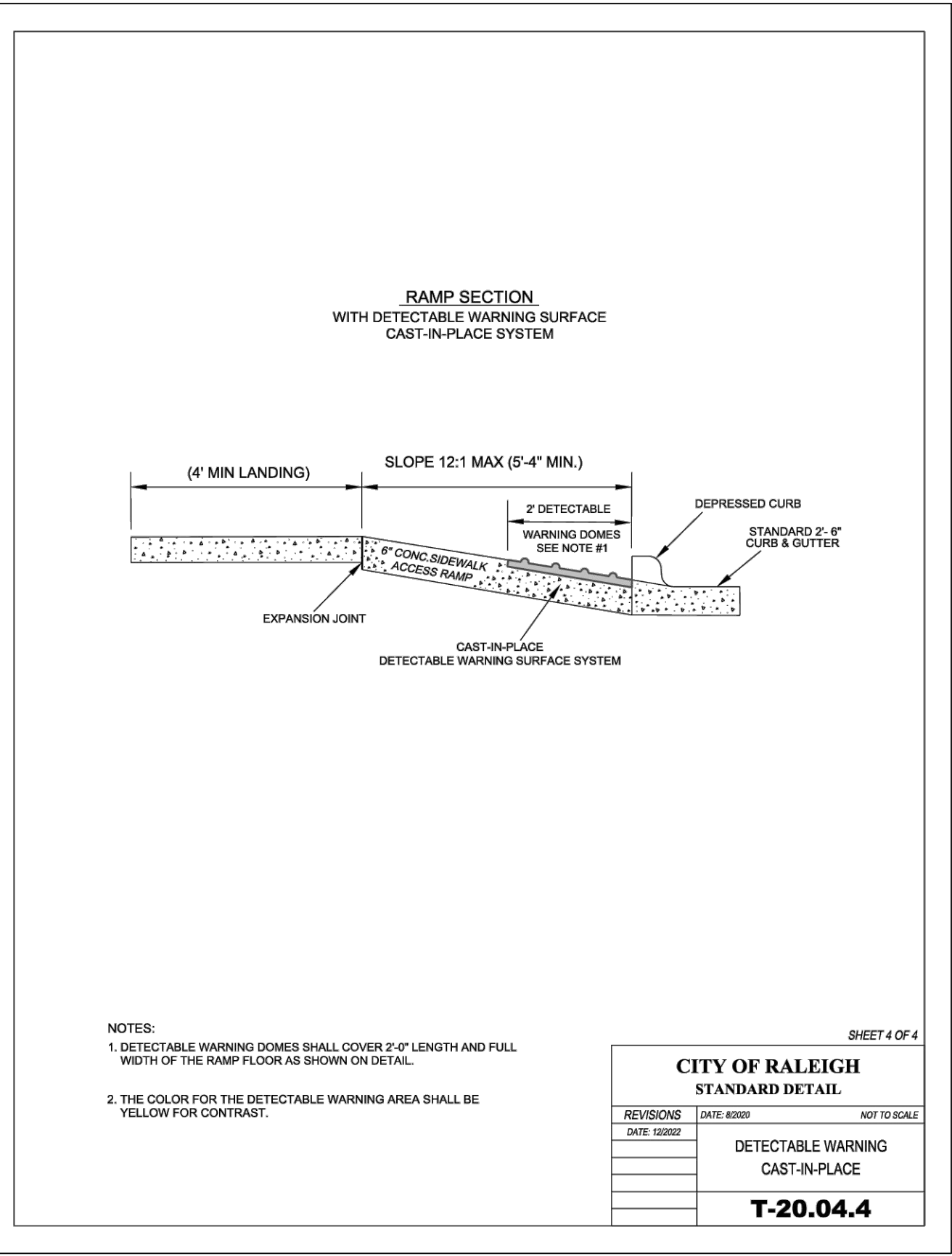
- NOTE:
- MISA (MINIMUM IMPERVIOUS SURFACE AREA ALLOWED)
  - ANY DAMAGE TO NEW HOPE ROAD OR WEDGEWOOD DRIVE WILL REQUIRE REPAIR TO NC-DOT STANDARDS.

**ATTENTION CONTRACTORS**

The Construction Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Works Department at (919)996-2409 and the Public Utilities Department at (919) 996-4540, at least twenty four hours prior to beginning any of their construction.

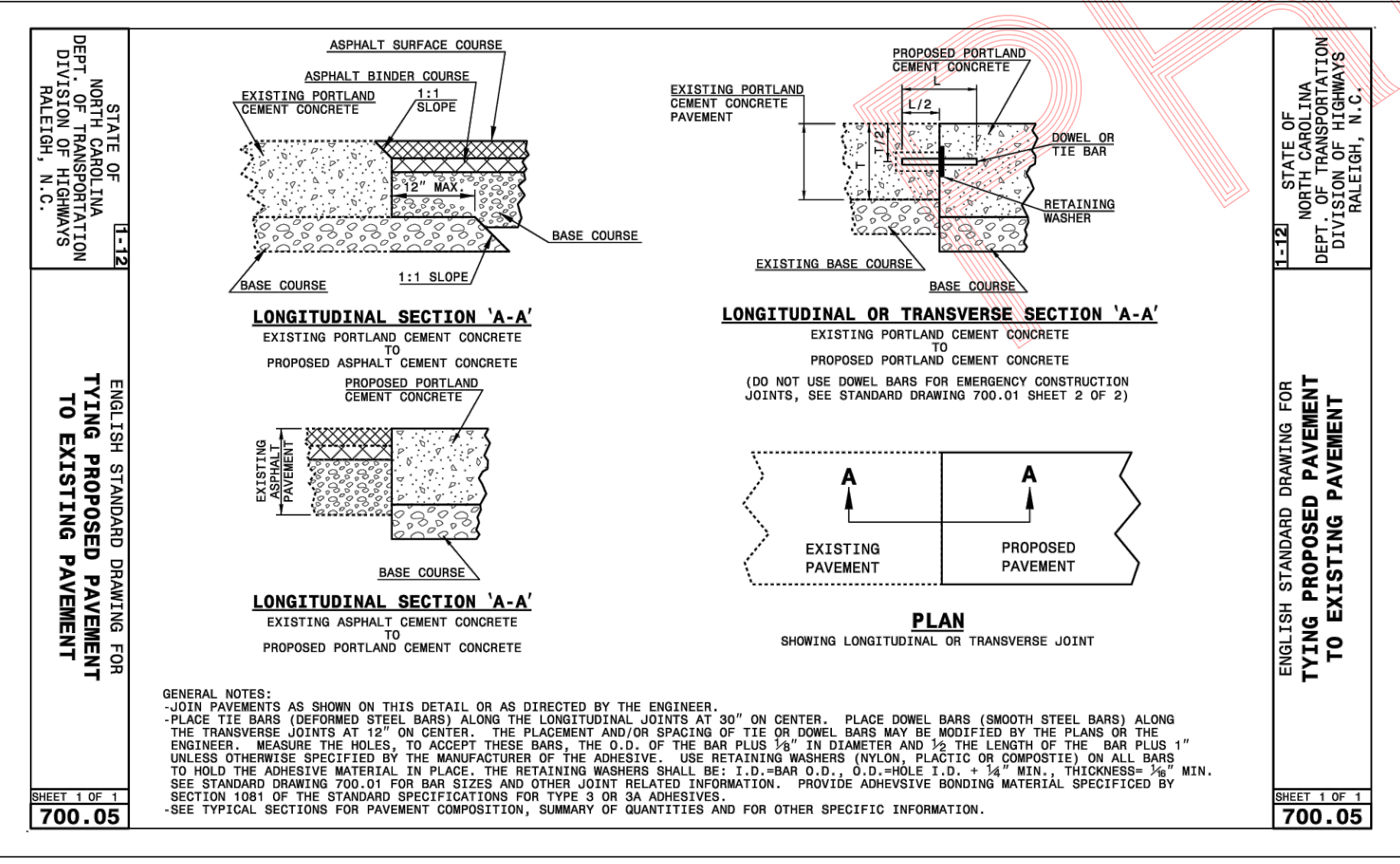
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Failure to call for inspection, install a Downstream Plug, have Permitted Plans on the Jobsite, or any other violation of City of Raleigh standards will result in a fine and possible exclusion from future work in the City of Raleigh.



CITY OF RALEIGH  
STANDARD DETAIL  
T-20.04.4

REVISIONS	DATE	BY	NOT TO SCALE



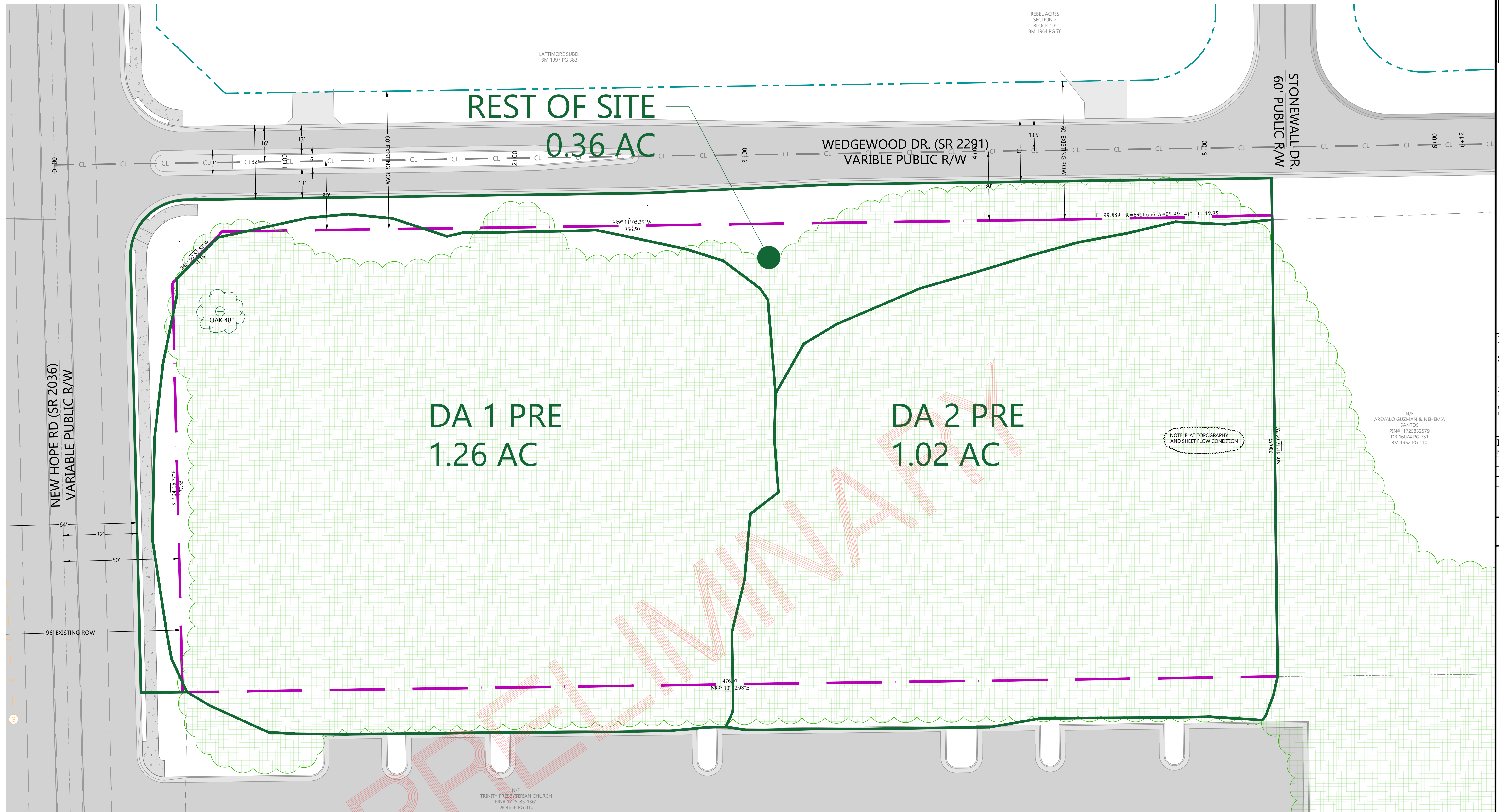
**HARRIS ENGINEERING**  
312 Lacerotti Way  
Morrisville, N.C. 27560  
(919) 996-9455

Date Started: 1 September 2024  
Scale: NTS  
Drawn By: BAH  
Printed Date: 29 September 2024  
File: C:\Users\Bryan.Lewis\OneDrive\Documents\Projects\Wedgewood\Wedgewood N File.dwg

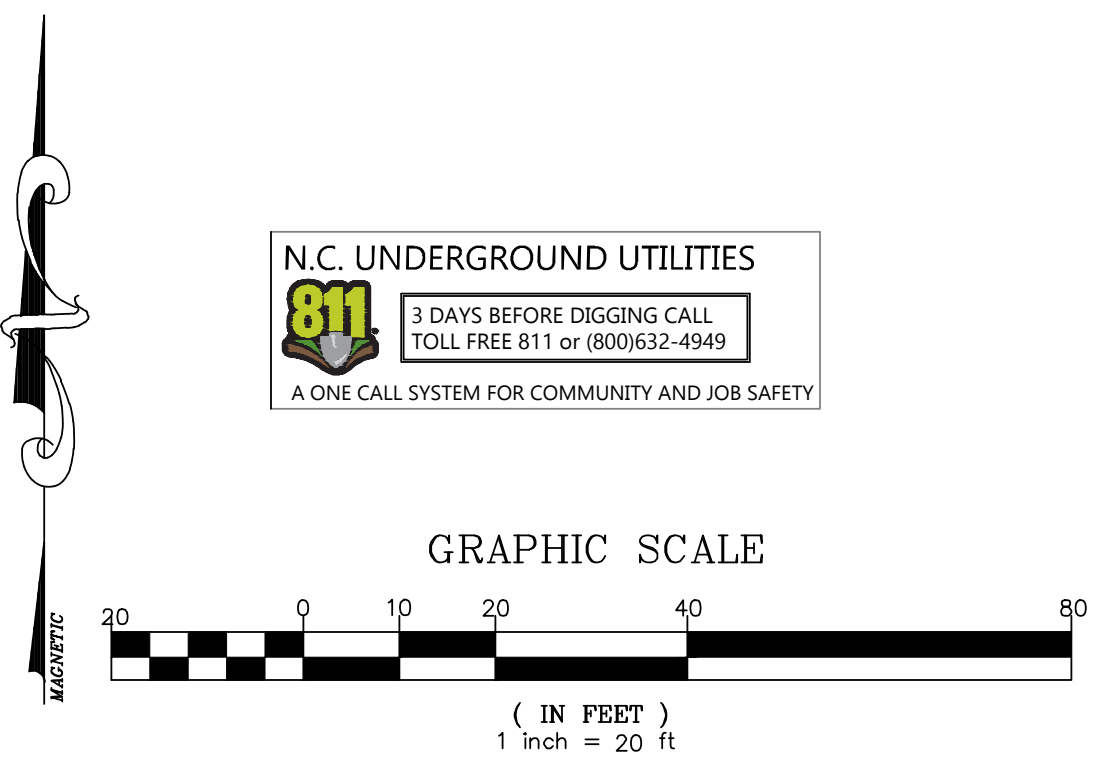
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Preliminary Subdivision  
Plan

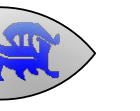
Site Plan  
For  
Spring Arces Subdivision



N.C. UNDERGROUND UTILITIES  
 3 DAYS BEFORE DIGGING CALL  
 TOLL FREE 811 or (800)632-4949  
 A ONE CALL SYSTEM FOR COMMUNITY AND JOB SAFETY



**HARRIS ENGINEERING**



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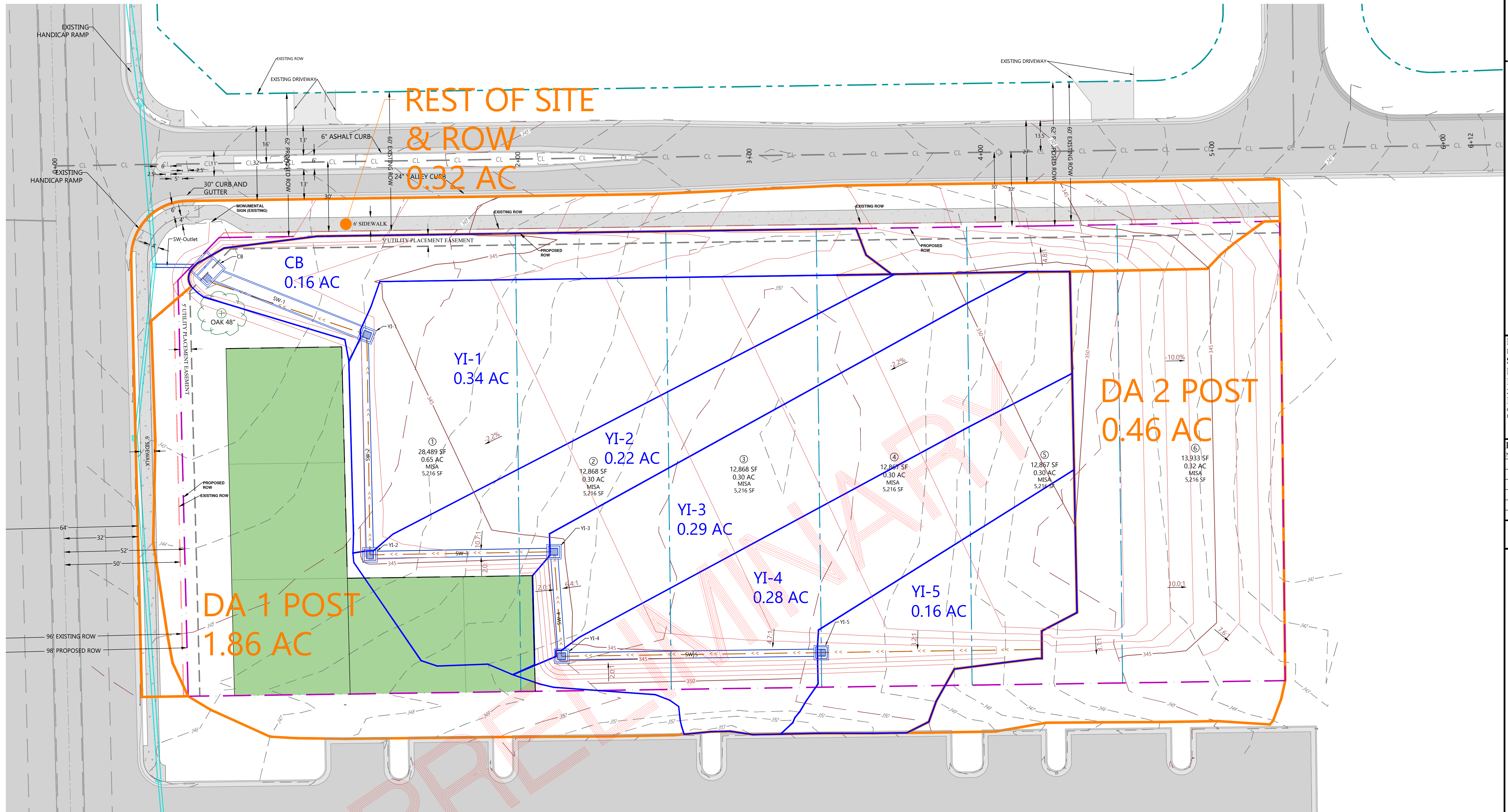
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Preliminary Subdivision  
Plan

Drainage Delineation Pre  
For  
Spring Arces Subdivision





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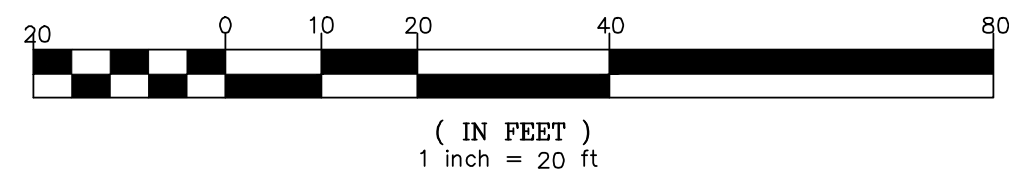
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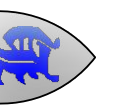


A ONE CALL SYSTEM FOR COMMUNITY AND JOB SAFETY

**GRAPHIC SCALE**



**HARRIS ENGINEERIN**



312 Lacerof Way  
Morrisville, N.C. 27560  
(919) 996-9455

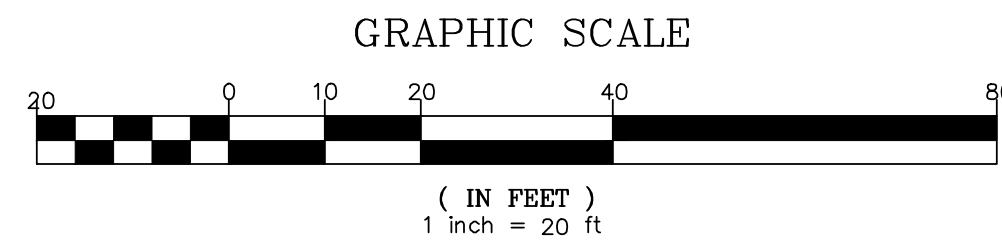
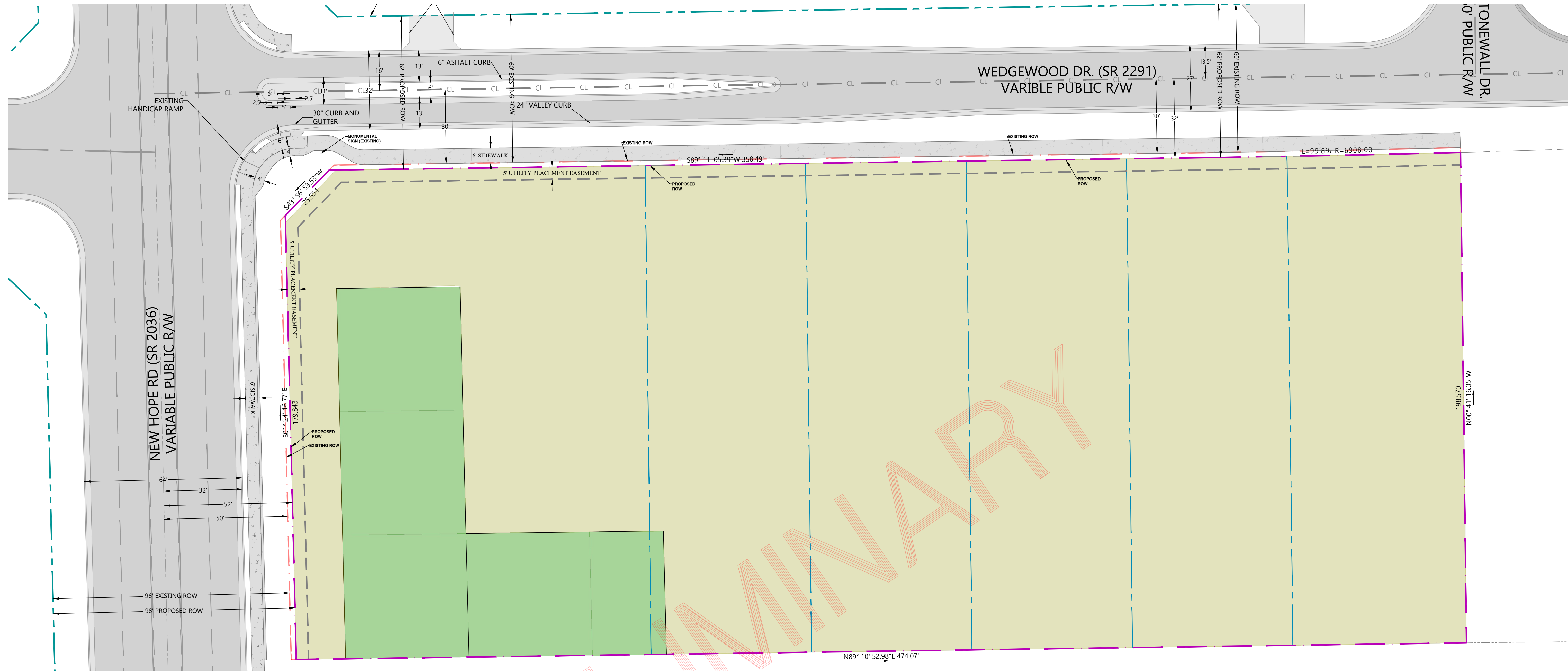
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Preliminary Subdivision  
Plan

Drainage Delineation Post  
For  
Spring Arces Subdivision



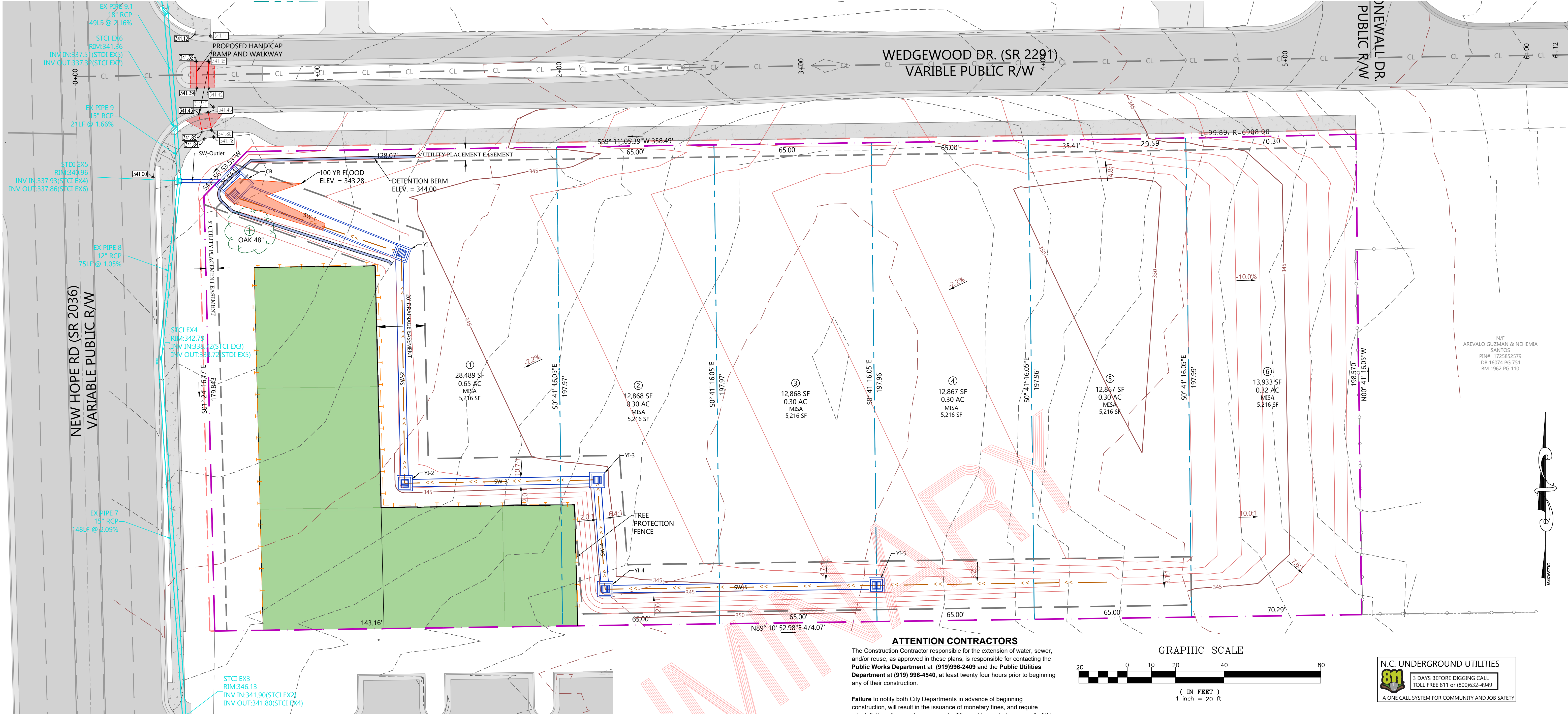


POST NITROGEN LEGEND	
LOTS	
TREE CONSERVATION AREA	
LOT AREA	82,911 SQ.FT
TREE CONSERVATION AREA	10,982 SQ.FT

NOTE:  
PROPOSED TOPO IS DESIGNED TO SHOW THE TIE INTO  
EXISTING SURVEYED TOPO







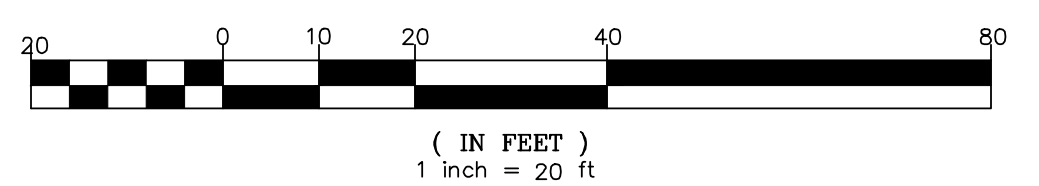
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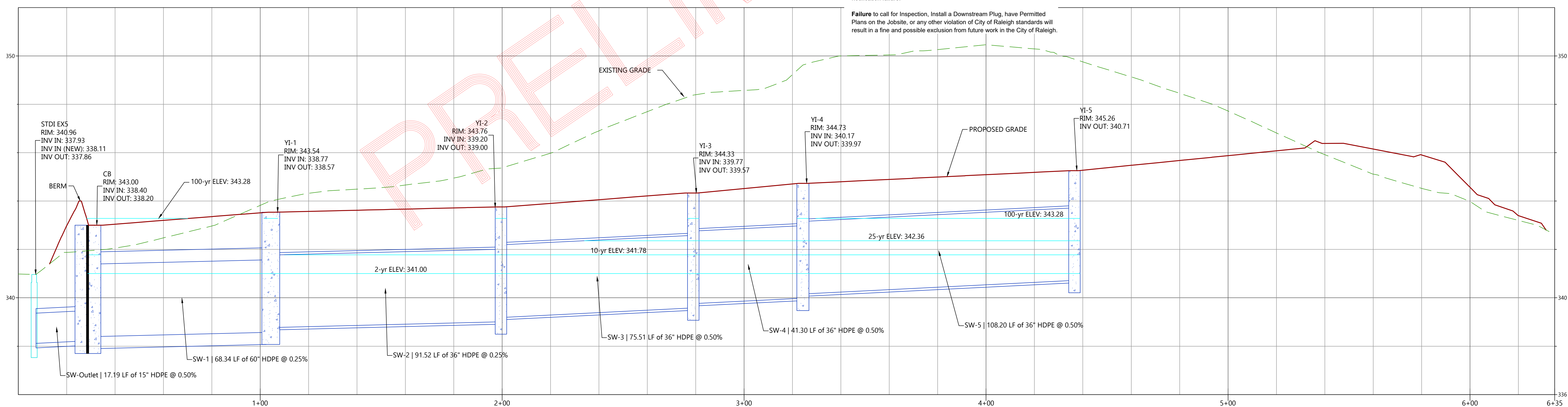
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**GRAPHIC SCALE**



**N.C. UNDERGROUND UTILITIES**  
  
 3 DAYS BEFORE DIGGING CALL  
 TOLL FREE 811 or (800)632-4949  
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Preliminary Subdivision Plan

**Stormwater & Grading Plan**  
 For  
**Spring Arces Subdivision**

**PUBLIC WATER DISTRIBUTION/EXTENSION SYSTEM**  
 THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC WATER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK.

CITY OF RALEIGH  
 PUBLIC UTILITIES DEPARTMENT PERMIT # **W-3701**  
 AUTHORIZATION TO CONSTRUCT SEE DIGITAL SIGNATURE

**PUBLIC SEWER COLLECTION/EXTENSION SYSTEM**  
 THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC SEWER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK.

CITY OF RALEIGH  
 PUBLIC UTILITIES DEPARTMENT PERMIT # **S-4610**  
 AUTHORIZATION TO CONSTRUCT SEE DIGITAL SIGNATURE

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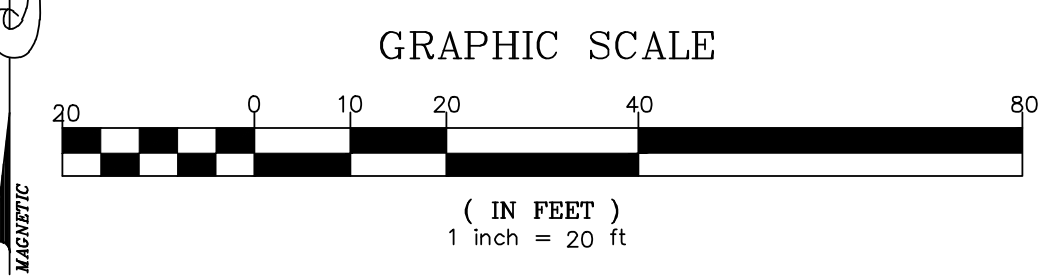
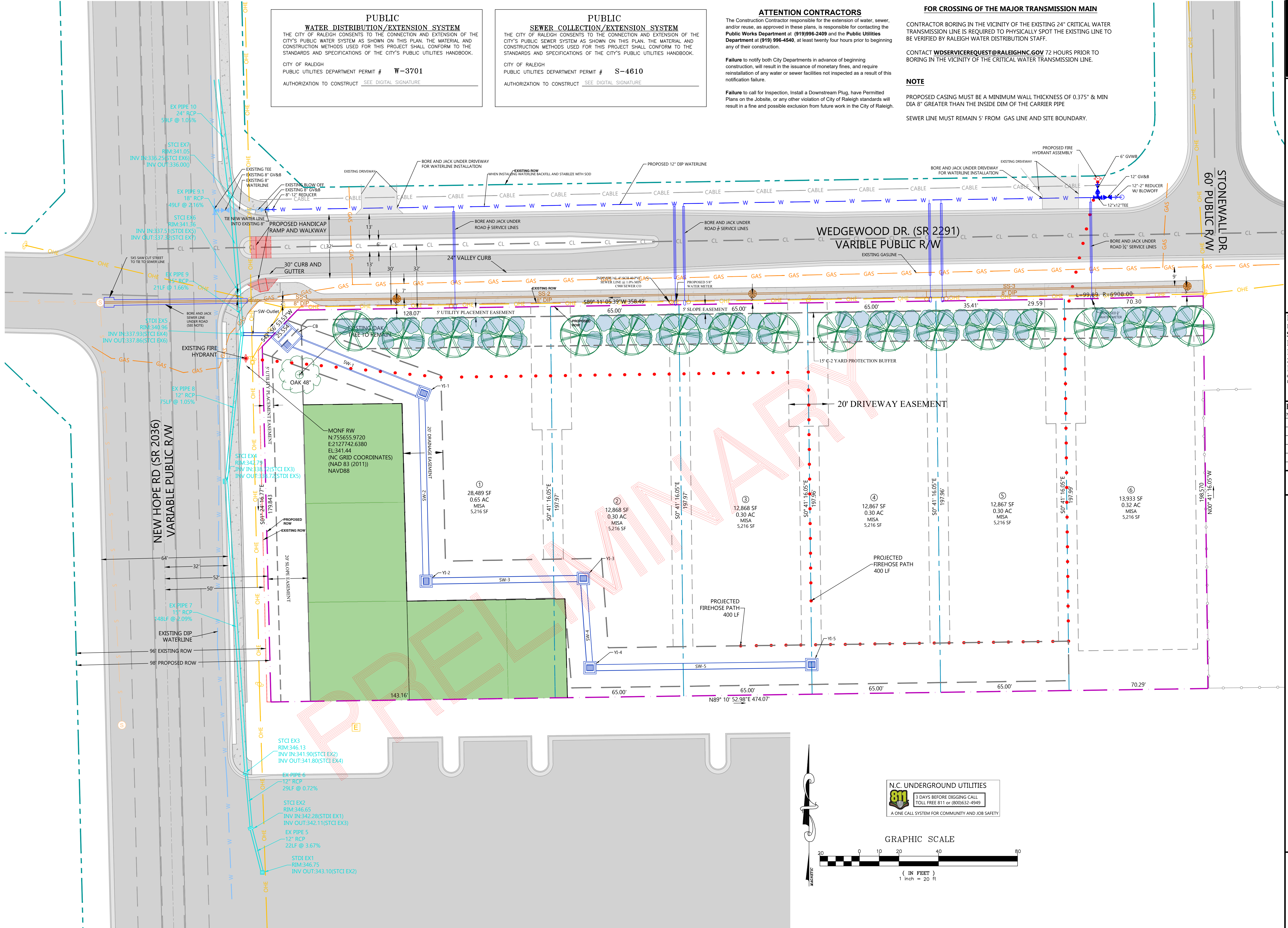
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**FOR CROSSING OF THE MAJOR TRANSMISSION MAIN**  
 CONTRACTOR BORING IN THE VICINITY OF THE EXISTING 24" CRITICAL WATER TRANSMISSION LINE IS REQUIRED TO PHYSICALLY SPOT THE EXISTING LINE TO BE VERIFIED BY RALEIGH WATER DISTRIBUTION STAFF.

CONTACT [WDSERVICEREQUEST@RALEIGHNC.GOV](mailto:WDSERVICEREQUEST@RALEIGHNC.GOV) 72 HOURS PRIOR TO BORING IN THE VICINITY OF THE CRITICAL WATER TRANSMISSION LINE.

**NOTE**  
 PROPOSED CASING MUST BE A MINIMUM WALL THICKNESS OF 0.375" & MIN DIA 8" GREATER THAN THE INSIDE DIM OF THE CARRIER PIPE

SEWER LINE MUST REMAIN 5' FROM GAS LINE AND SITE BOUNDARY.



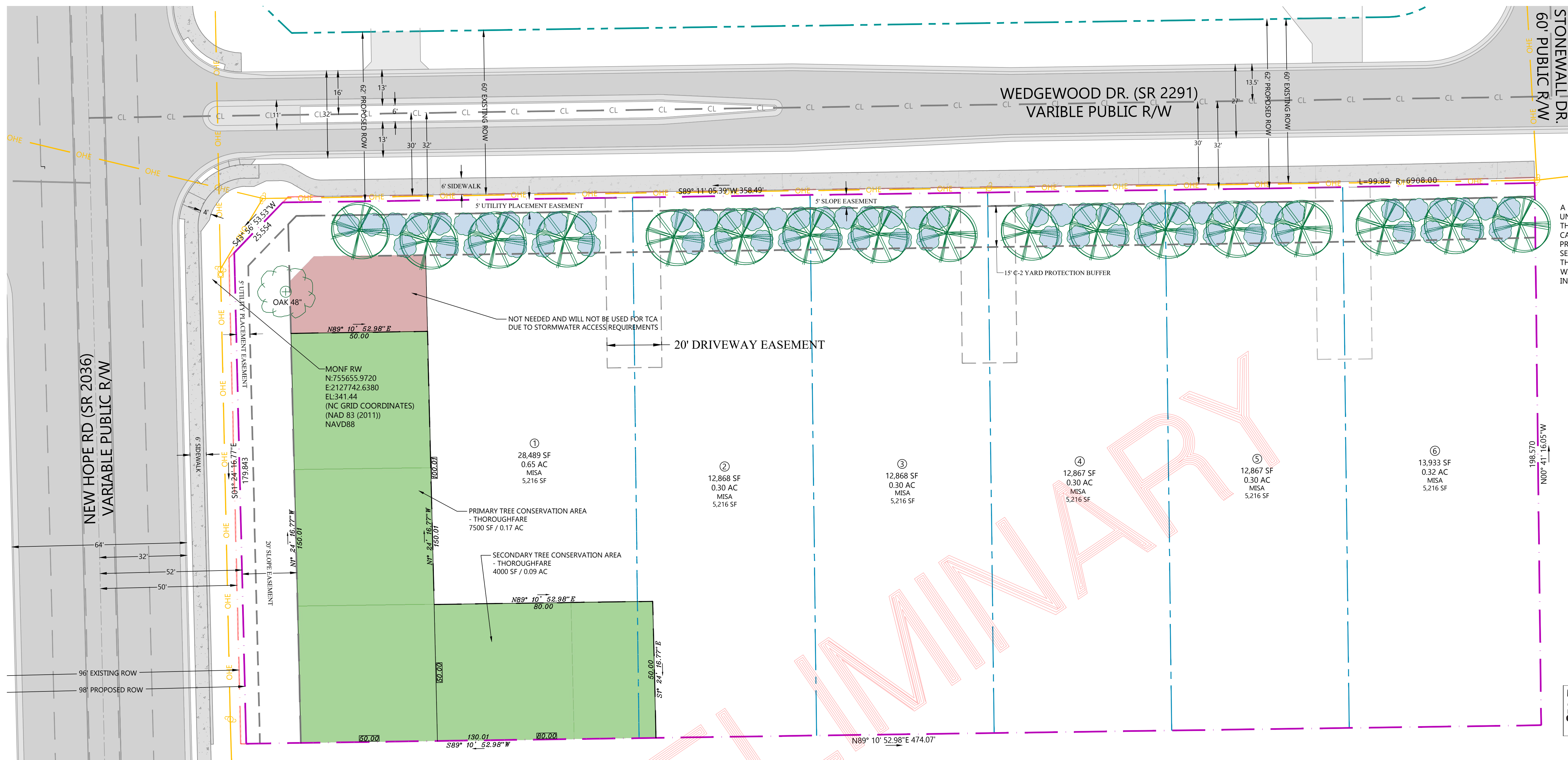
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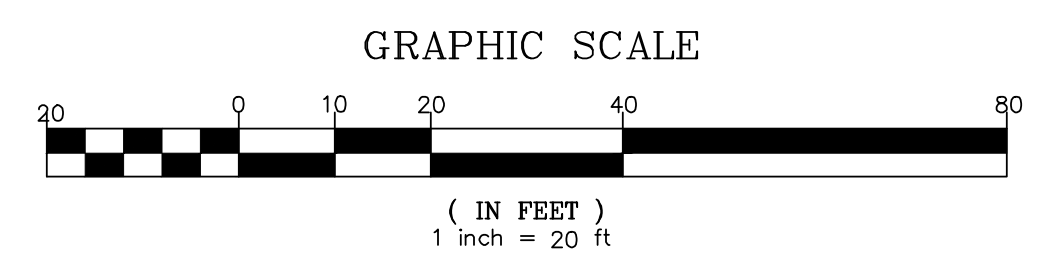
Preliminary Subdivision Plan

Utility Plan  
 For  
**Spring Arces Subdivision**



A HOLD WILL BE PLACED ON THIS CASE NUMBER UNTIL THE TREE PROTECTION FENCE IS INSTALLED IN THE FIELD AND INSPECTION IS COMPLETED. PLEASE CALL DOUG WHITE (919-996-4865) AFTER THE TREE PROTECTION FENCE IS COMPLETELY INSTALLED TO SET UP AN INSPECTION. A COPY OF PLANS SHOWING THE LOCATION OF THE TREE PROTECTION FENCE WILL NEED TO BE ON SITE AT THE TIME OF THE INSPECTION

**N.C. UNDERGROUND UTILITIES**  
 3 DAYS BEFORE DIGGING CALL TOLL FREE 811 or (800)632-4949  
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**STREET PROTECTED YARD (TYPE C2) REQUIREMENTS**

WEDGEWOOD FRONT IS 458.5 WITH 20' FOR SLOPE EASEMENT AND 50' TCA GIVING US 388.5' FOR STREET PROTECTED YARD

	REQUIRED	PROVIDED
WIDTH	15'	15'
FENCE HEIGHT	N/A	-
WALL HEIGHT	N/A	-
SHADE TREE (4 PER 100')	16	17
SHRUBS (15 PER 100')	59	67
SHRUB HEIGHT	5'	SEE CHART
BERM (PER SEC 7.24.D.4)	N/A	-

A REQUIRED STREET PROTECTIVE YARD MAY BE REPLACED FOR A TREE CONSERVATION AREA THAT MEETS THE REQUIREMENTS OF ARTICLE 9.1 TREE CONSERVATION

**Primary TCA-Thoroughfare**

Tree Species Contained Within Tree Conservation Area (Key)

Quercus nigra (Water Oak) = W/OAK  
 Pinus taeda (Loblolly Pine) = P/PINE  
 Acer rubrum (Red Maple) = R/MAPLE  
 Cornus florida (Flowering Dogwood) = F/DOG  
 Liriodendron virginicum (Sweetgum) = S/GUM  
 Prunus serotina (Black Cherry) = B/CHERRY  
 Liquidambar styraciflua (Sweetgum) = S/GUM  
 Ilex americana (American Holly) = A/HOLLY

Sample Area ID	Avg DBH (in)	Largest Recorded DBH	Smallest Recorded DBH	Avg Spacing (ft)	Basal Area/Ac (ft <sup>2</sup> )	Stand Condition
A1	7.50	9	6	25	19.94	Good
A2	6.71	14	3	14	89.52	Good
A3	7.50	16	3	12	75.88	Good
A4	6.29	17	3	15	88.13	Good

**Wedgewood Site Secondary TCA Areas B**

Tree Species Contained Within Tree Conservation Area (Key)

Pinus taeda (Loblolly Pine) = P/PINE  
 Acer rubrum (Red Maple) = R/MAPLE  
 Liquidambar styraciflua (Sweetgum) = S/GUM  
 Prunus serotina (Black Cherry) = B/CHERRY  
 Magnolia grandiflora (Southern Magnolia) = M/MAG  
 Quercus nigra (Water Oak) = W/OAK  
 ORNAMENTAL - ORN (RED TIP)

Sample Area ID	Avg DBH (in)	Largest Recorded DBH	Smallest Recorded DBH	Avg Spacing (ft)	Basal Area/Ac (ft <sup>2</sup> )	Stand Condition
B1	8	18	3	14	84.35	Good
B2	5	14	3	18	75.06	Good

**Thoroughfare Primary TCA**

\*See key for species on separate sheet

Plot	Species	DBH of trees in plot	BA/Tree	BA/Ac
A1	CHERRY MAPLE	9 6	0.4418	6.136
			13.805	0.032 acre

**Basal Area A1**  
19.94 avg dbh 7.5

Plot	Species	DBH of trees in plot	BA/Tree	BA/Ac
A2	PINE PEAR GUM GUM GUM GUM GUM GUM GUM GUM PINE PINE PINE PINE GUM	14 7 5 5 5 4 3 5 5 6 3 4 11 11 13 7 6	1.069 0.267 0.136 0.136 0.087 0.049 0.136 0.136 0.196 0.049 0.087 0.166 0.166 0.322 0.267 0.196	18.431 4.668 2.351 2.351 2.351 1.505 0.846 2.351 2.351 3.385 0.846 1.505 11.38 11.38 15.89 4.668 3.385
				0.058 acre

**Basal Area A2**  
89.52 avg dbh 6.706

Plot	Species	DBH of trees in plot	BA/Tree	BA/Ac
A3	CHERRY CHERRY GUM ELM GUM PINE PINE MAPLE ELM DOG	12 10 6 14 3 5 16 3 3 3	0.7854 0.545 0.196 1.069 0.049 0.136 1.396 0.049 0.049 0.049	13.779 6.568 3.445 18.79 0.861 2.392 24.5 0.861 0.861 0.861
				0.057 acre

**Basal Area A3**  
75.88 avg dbh 7.5

Plot	Species	DBH of trees in plot	BA/Tree	BA/Ac
A4	PINE CEDAR ELM GUM CHERRY PINE CEDAR PINE PINE CHERRY GUM MAPLE MAPLE CEDAR CEDAR PINE	17 3 7 4 6 3 4 7 7 4 3 4 3 14	1.2762 0.049 0.267 0.087 0.196 0.049 0.087 0.267 0.267 0.049 0.349 0.349 0.136 0.087 0.049 1.069	27.176 0.846 4.668 1.505 3.385 0.846 1.505 4.668 4.668 1.505 0.846 6.018 6.018 2.351 1.505 0.846 18.43
				0.058 acre

**Basal Area A4**  
86.01 avg dbh 6.254

**SHRUBS**

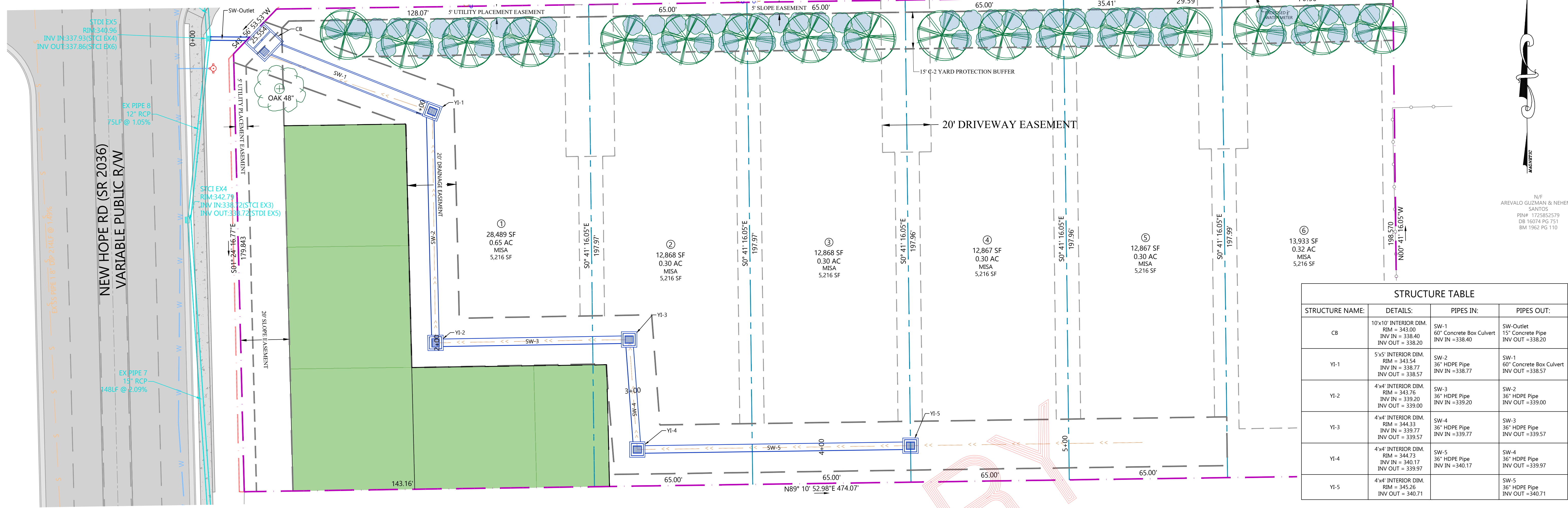
BOTANICAL NAME COMMON NAME	HEIGHT	CALIPER	SPREAD	REASON	TYPE
CHIONANTHUS VIRGINICUS, FRINGE TREE	12'-20'	2"	12'-20'	STREET	DECIDUOUS
VACCINIUM CORYMBOSUM, HIGHLUSH OR RABBITEYE BLUEBERRY	6'-12'	2"	8'-12'	STREET	DECIDUOUS
AESCULUS PARVIFLORA, BOTTLEBRUSH BUCKEYE	8'-12'	2"	8'-15'	STREET	DECIDUOUS
MYRTICA PUMILA SYN M. CERIFERA, DWARF WAX MYRTLE	5'-6'	1"	5'-6'	STREET	EVERGREEN
VIBURNUM RUFIDULUM, BLACKHAW VIBURNUM	10'-20'	2"	10'-15'	STREET	RAIN GARDEN PLANTS
CLETHRA ALNIFOLIA, SWEET PEPPERBUSH	4'-10'	1"	5'-6'	STREET	RAIN GARDEN PLANTS

**CANOPY / SHADE TREES**

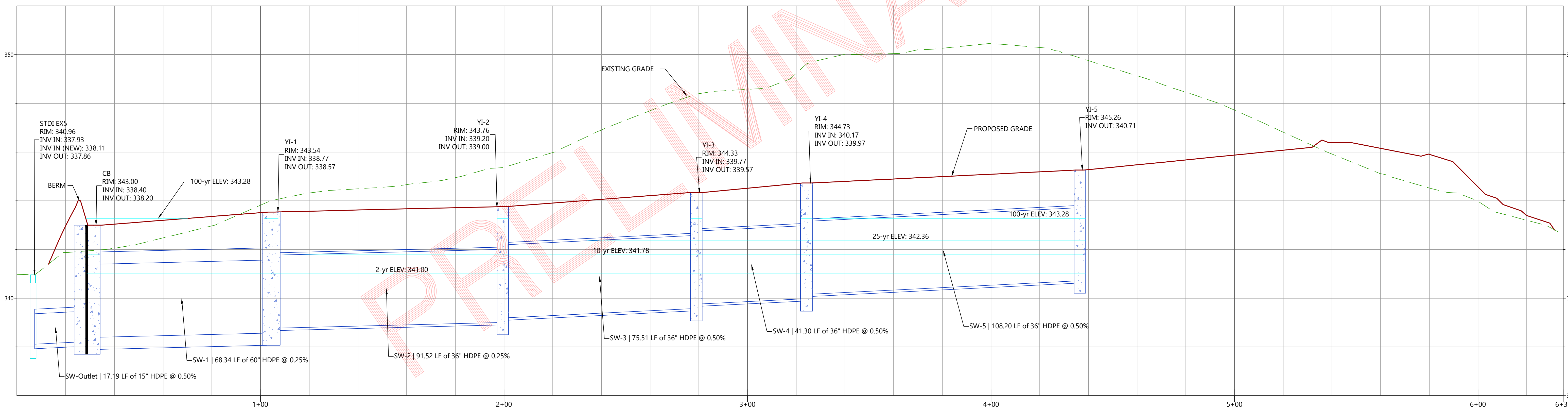
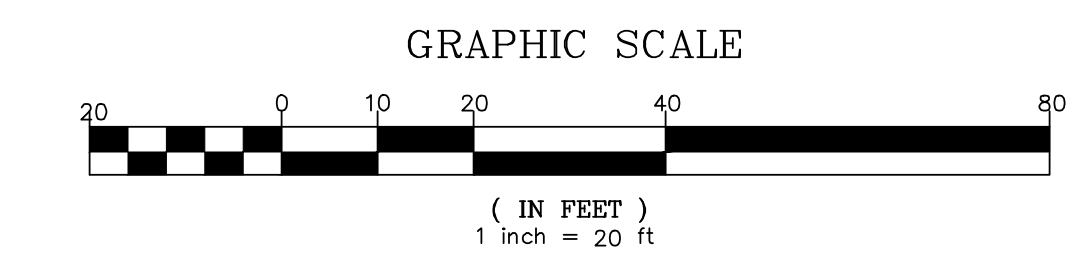
BOTANICAL NAME COMMON NAME	HEIGHT	CALIPER	SPREAD	REASON	TYPE
PINUS TAEDA, LOBLOLLY PINE	60'	3"	25'	SHADE-STREET	DECIDUOUS
PLATANUS RACEMOSA, CALIFORNIA SYCAMORE	40'	3"	40'	SHADE-STREET	DECIDUOUS
MAGNOLIA GRANDIFLORA, SOUTHERN MAGNOLIA	60'	3"	40'	SHADE-STREET	DECIDUOUS
BETULA NIGRA, RIVER BIRCH	30'	3"	40'	SHADE-STREET	DECIDUOUS
EUROPEAN HORNBEAM, CASPARIUS BETULUS	40'-70'	10"	30'	SHADE-STREET	DECIDUOUS
ACER RUPESTREANUM, TRIDENT MAPLE	30'-45'	10"	25'	SHADE-STREET	DECIDUOUS
ZELKOVA SERRATA, JAPANESE ZELKOVA	40'-60'	8"	480	SHADE-STREET	DECIDUOUS

PLANS SHOW ONLY THE LOCATION OF TREE/SHRUBS TYPE AND/OR SUBSTITUTION WITH THE OTHER TREES CAN BE DONE AT THE DISCRETION OF THE DEVELOPER OR CONTRACTOR AS LONG AS IT MEETS ALL REQUIREMENTS OF THE CITY OF RALEIGH'S MOST CURRENT UDO. SHADE TREES SHALL BE A MINIMUM OF 3" CALIPER AND 10' TALL, AND 25' APART O.C. / SHRUBS WILL BE LESS THAN 20' HIGH AT MATURITY.





STRUCTURE TABLE			
STRUCTURE NAME:	DETAILS:	PIPES IN:	PIPES OUT:
CB	10x10" INTERIOR DIM. RIM = 343.00 INV IN = 338.40 INV OUT = 338.20	SW-1 60" Concrete Box Culvert INV IN = 338.40	SW-Outlet 15" Concrete Pipe INV OUT = 338.20
YI-1	5x5' INTERIOR DIM. RIM = 343.54 INV IN = 338.77 INV OUT = 338.57	SW-2 36" HDPE Pipe INV IN = 338.77	SW-1 60" Concrete Box Culvert INV OUT = 338.57
YI-2	4x4' INTERIOR DIM. RIM = 343.76 INV IN = 339.20 INV OUT = 339.00	SW-3 36" HDPE Pipe INV IN = 339.20	SW-2 36" HDPE Pipe INV OUT = 339.00
YI-3	4x4' INTERIOR DIM. RIM = 344.33 INV IN = 339.77 INV OUT = 339.57	SW-4 36" HDPE Pipe INV IN = 339.77	SW-3 36" HDPE Pipe INV OUT = 339.57
YI-4	4x4' INTERIOR DIM. RIM = 344.73 INV IN = 340.17 INV OUT = 339.97	SW-5 36" HDPE Pipe INV IN = 340.17	SW-4 36" HDPE Pipe INV OUT = 339.97
YI-5	4x4' INTERIOR DIM. RIM = 345.26 INV IN = 340.71	SW-5 36" HDPE Pipe INV IN = 340.71	SW-5 36" HDPE Pipe INV OUT = 340.71



STORMWATER PIPE PROFILE  
SCALE: HORIZ: 1" = 20'  
VERT: 1" = 2'

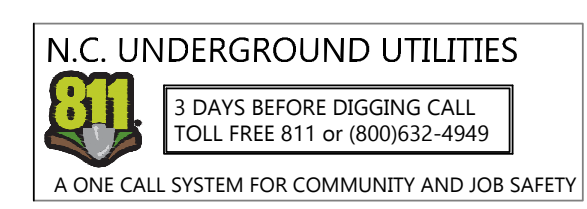
John W. Harris, P.E.  
Consulting Engineer, Inc.  
5112 Bur Oak Circle  
Raleigh, N.C. 27612  
(919) 789-0744  
www.harriseng.net

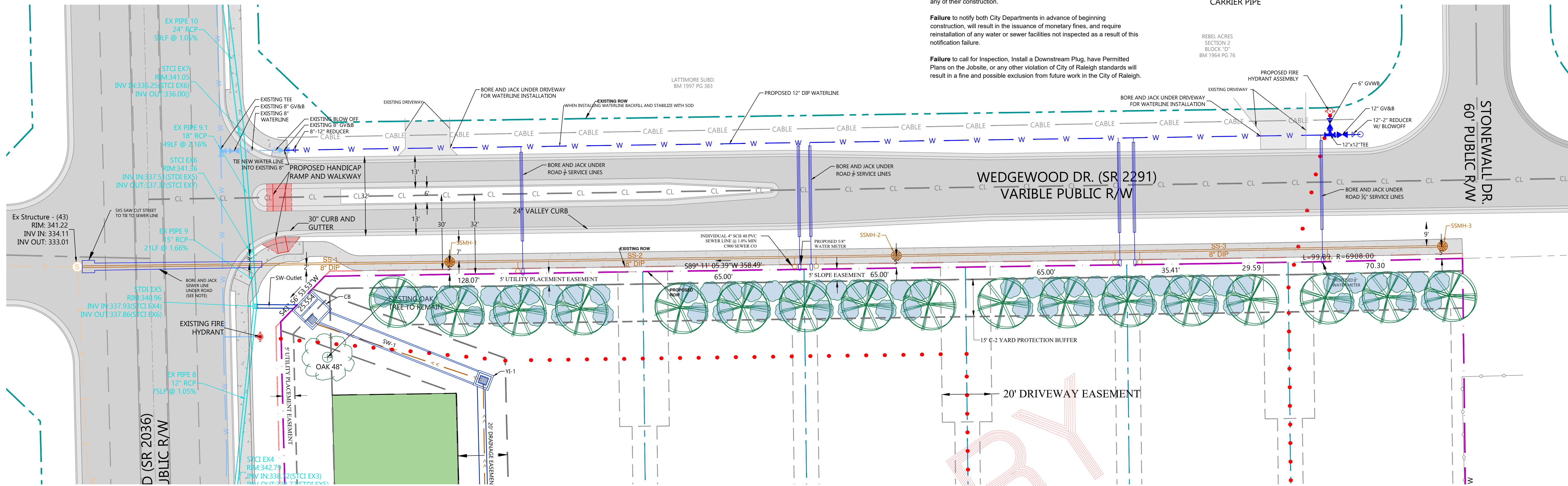
Revision: NO REVISIONS @ THIS DATE

Date Started: 1 September 2024  
Scale: 1" = 20'  
Drawn By: BAH  
Job #: 206-0717  
Printed Date: 29 September 2024  
File: C:\Users\Bryan.Harris\OneDrive\Desktop\Projects\WedgeWood\WedgeWood X-File.dwg

Storm Water Pipe Profile  
For  
Spring Arces Subdivision

10





**ATTENTION CONTRACTORS**

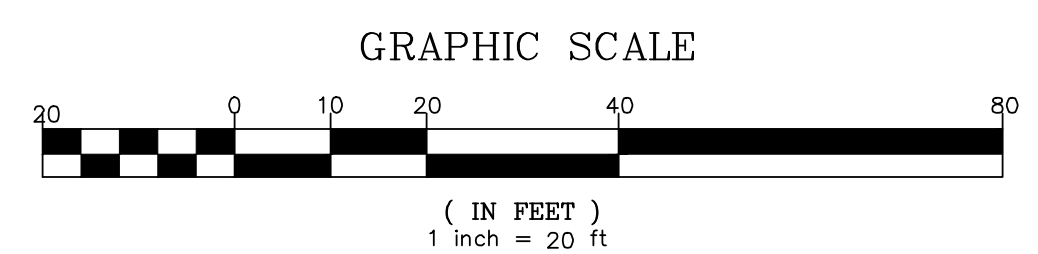
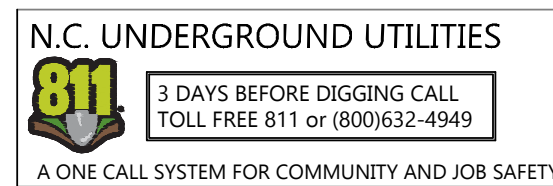
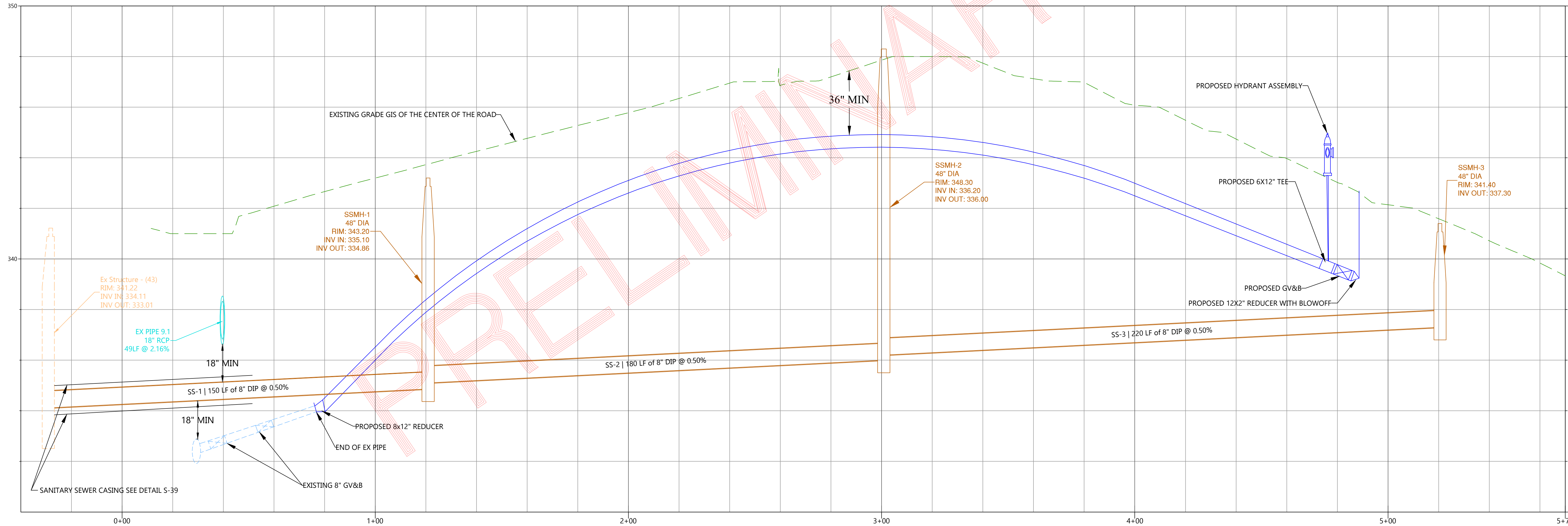
The Construction Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Works Department at (919)996-2409 and the Public Utilities Department at (919) 996-4540, at least twenty four hours prior to beginning any of their construction.

Failure to notify both City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require reinstatement of any water or sewer facilities not inspected as a result of this notification failure.

Failure to call for inspection, install a Downstream Plug, have Permitted Plans on the Jobsite, or any other violation of City of Raleigh standards will result in a fine and possible exclusion from future work in the City of Raleigh.

**NOTE**

PROPOSED CASING MUST BE A MINIMUM WALL THICKNESS OF 0.375\"/>



**HARRIS ENGINEERIN**  
 312 Lenoir Way  
 Morrisville, N.C. 27560  
 (919) 996-9455

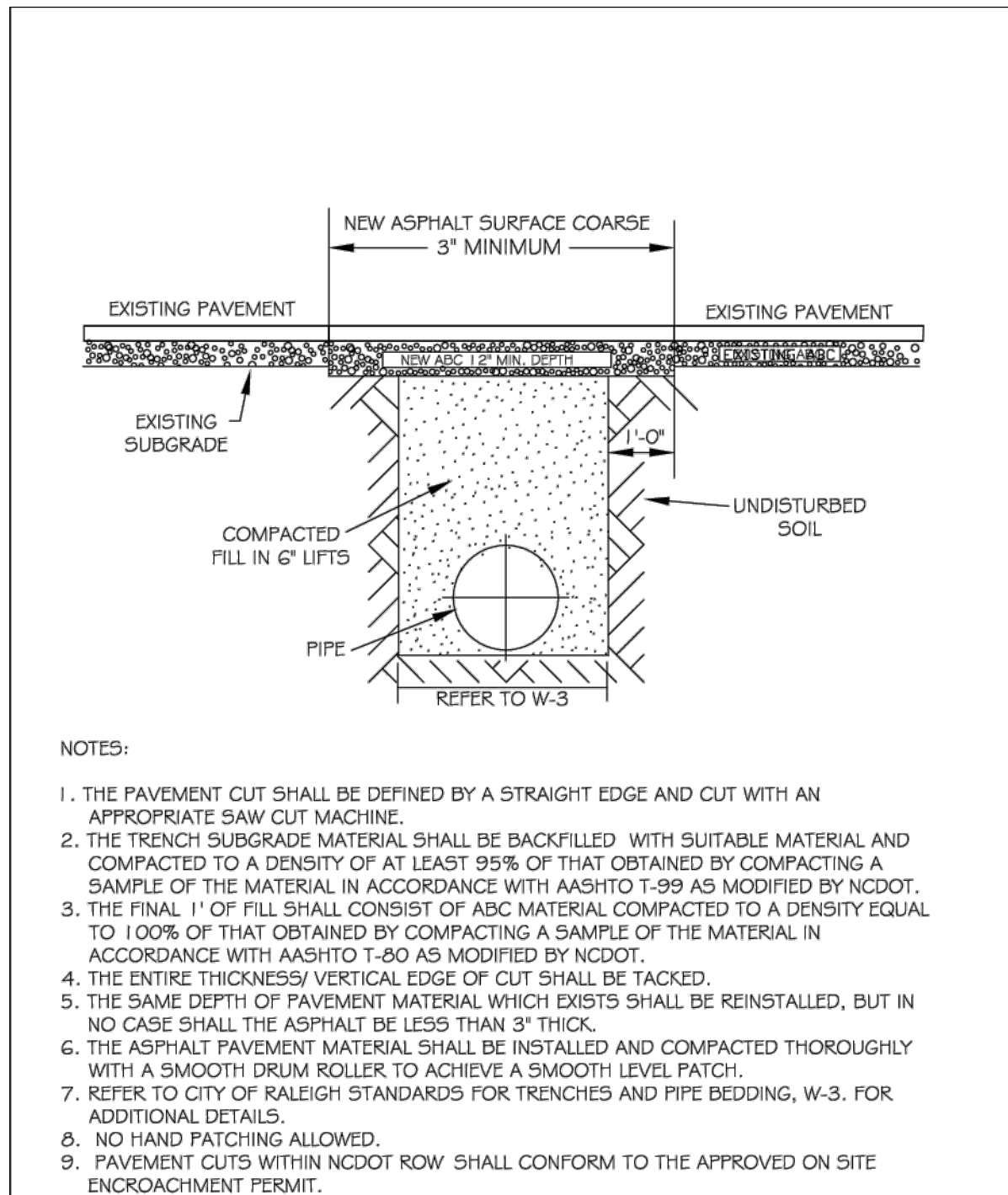
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 Scale: NTS  
 Drawn By: BAH  
 Printed Date: 29 September 2024  
 File: C:\Users\Bryan.Harris\OneDrive\Documents\Projects\Wedgewood\Wedgewood X-File.dwg

Revision:  
 NO REVISION @ THIS DATE

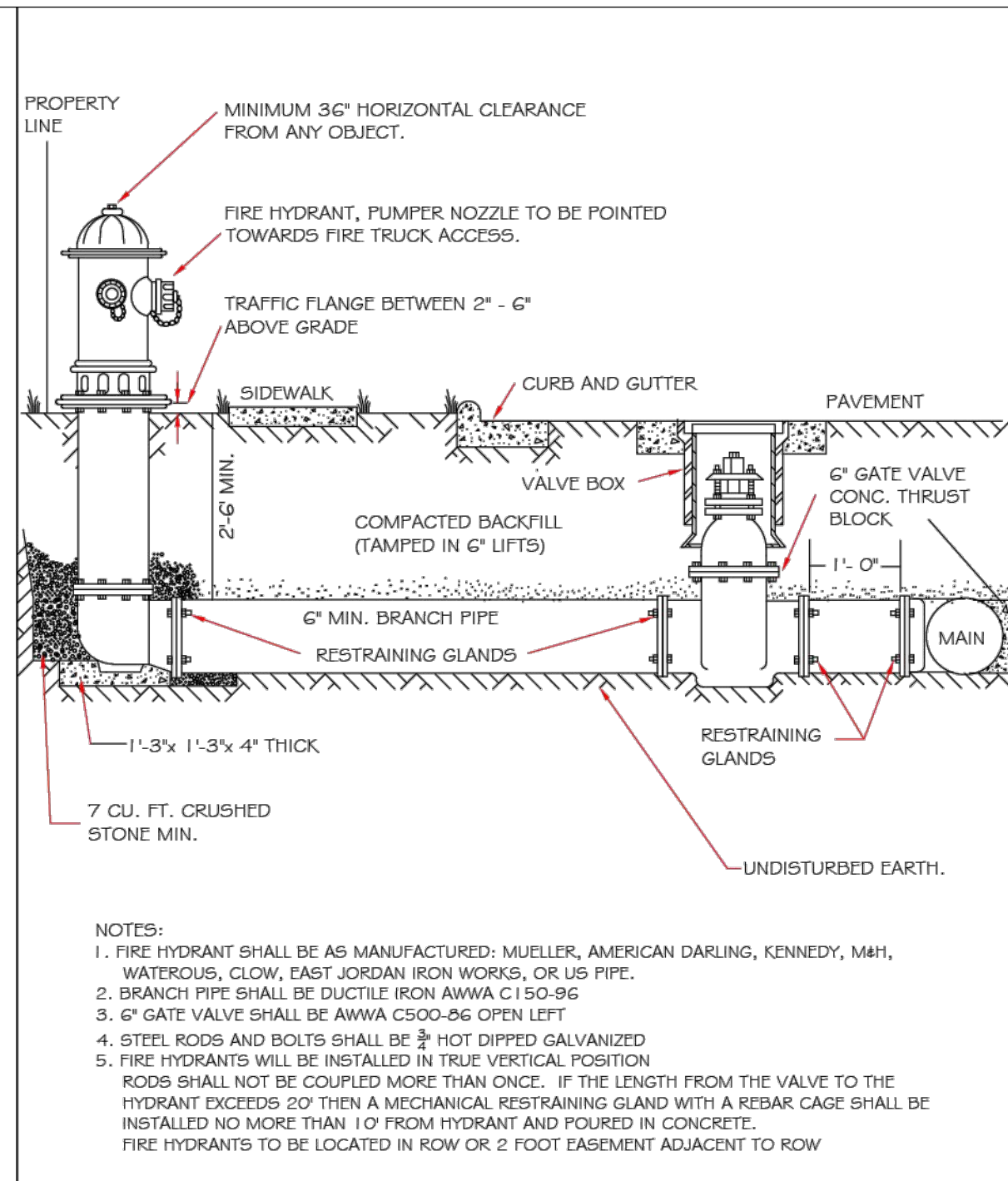
Preliminary Subdivision Plan

**Sewer Pipe Profile**  
 For  
**Spring Arces Subdivision**

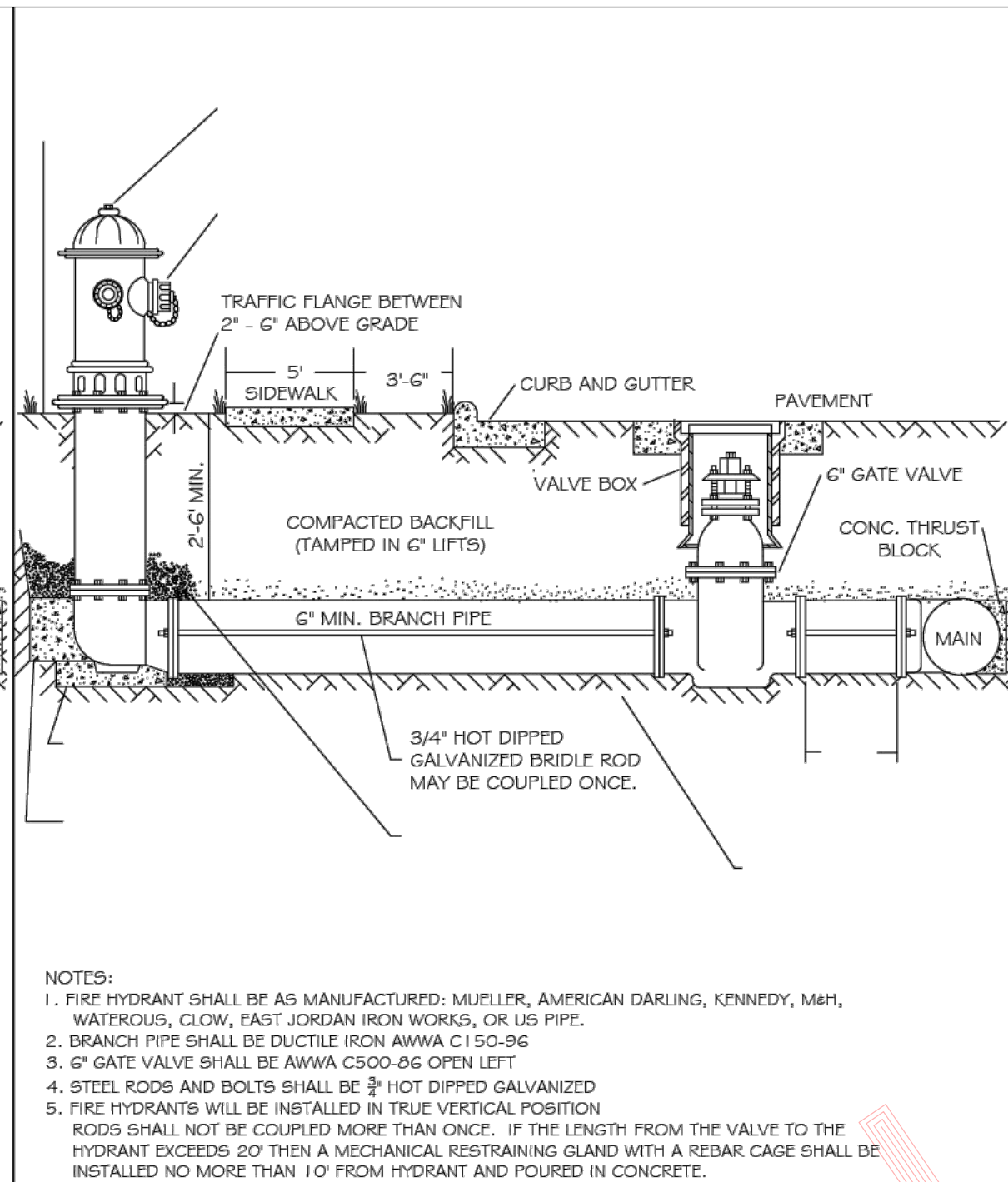
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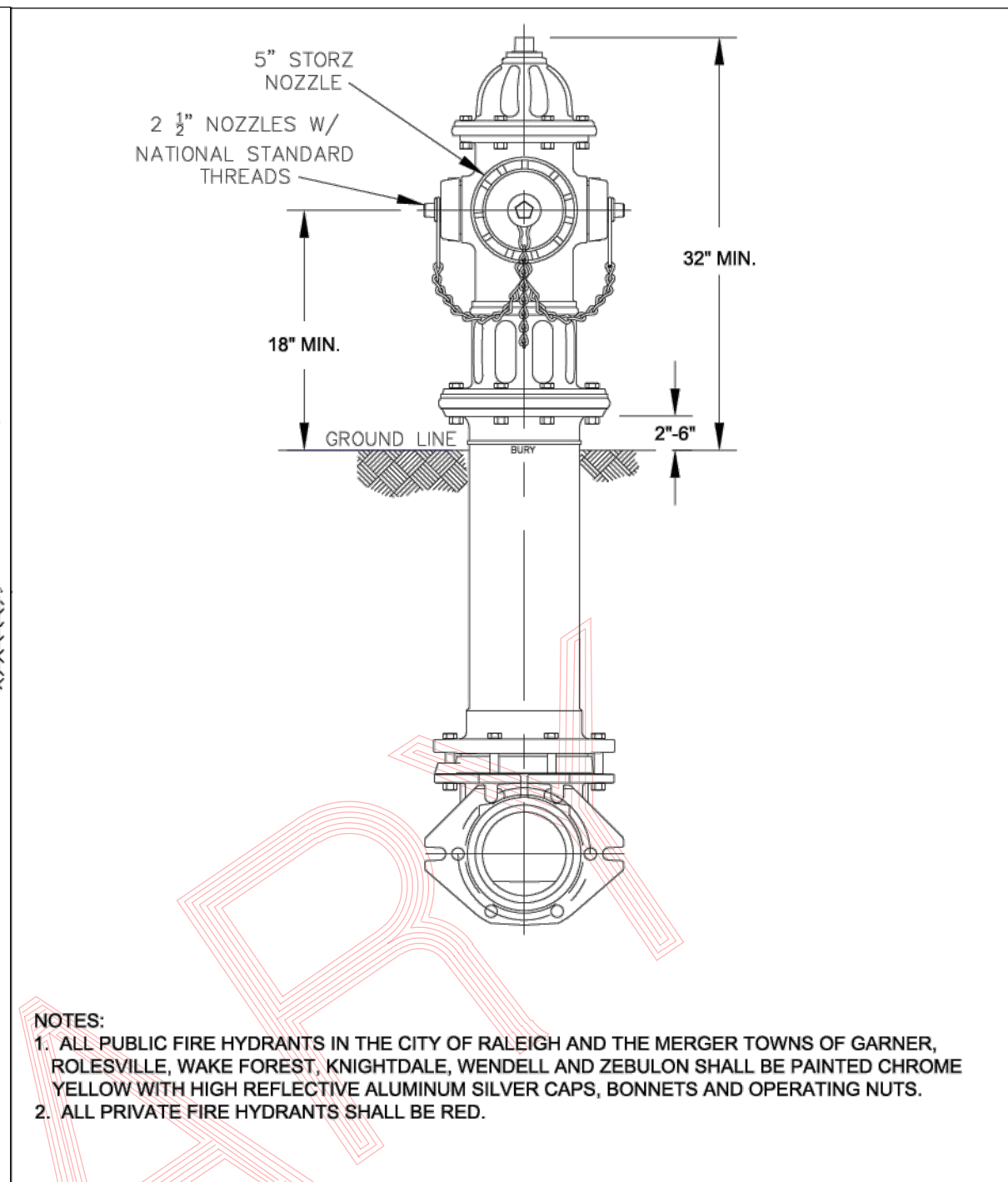
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STANDARD ASPHALT PAVEMENT PATCH DETAIL			
DWG. NO.	REVISIONS	DATE	DATE
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	D.W.G.	11-1-99	J.P.S.
		4-18-04	0-23-10



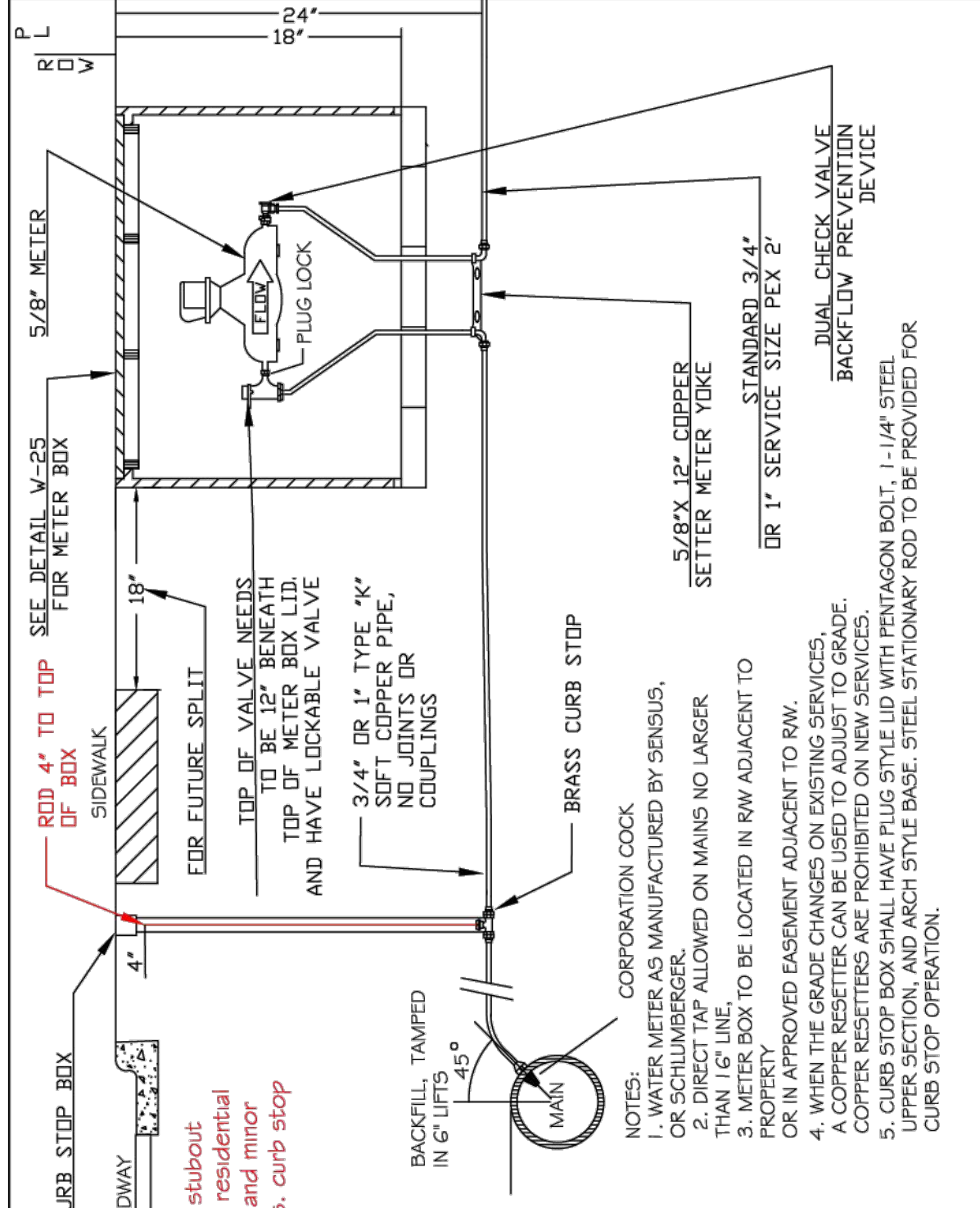
CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES			
STANDARD FIRE HYDRANT INSTALLATION DETAIL			
DWG. NO.	REVISIONS	DATE	DATE
W-4	ABB	4-6-04	J.P.S.
	D.H.	31/4/08	2/17/08



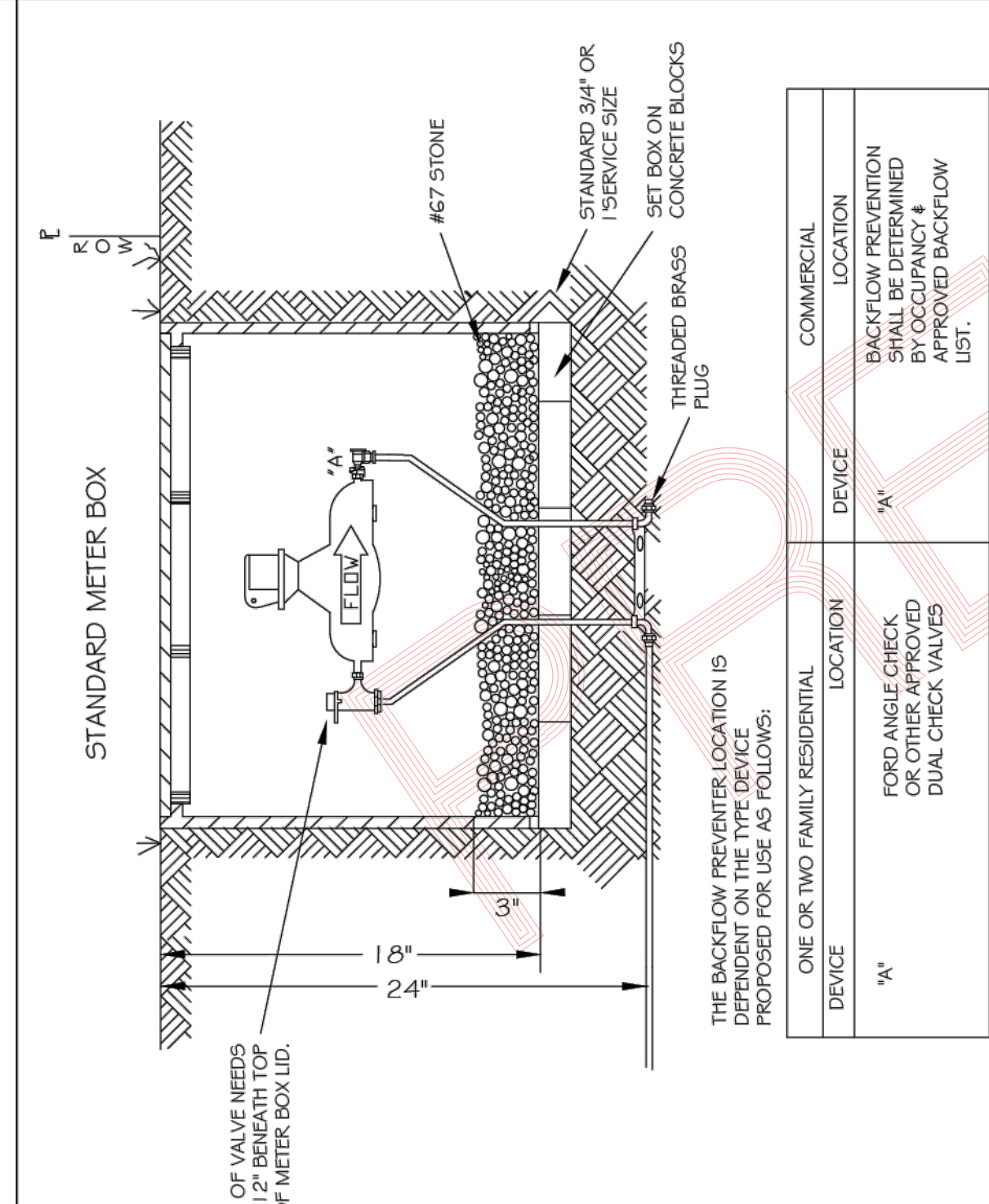
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STANDARD FIRE HYDRANT INSTALLATION DETAIL			
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	D.H.	31/4/08	2/17/08



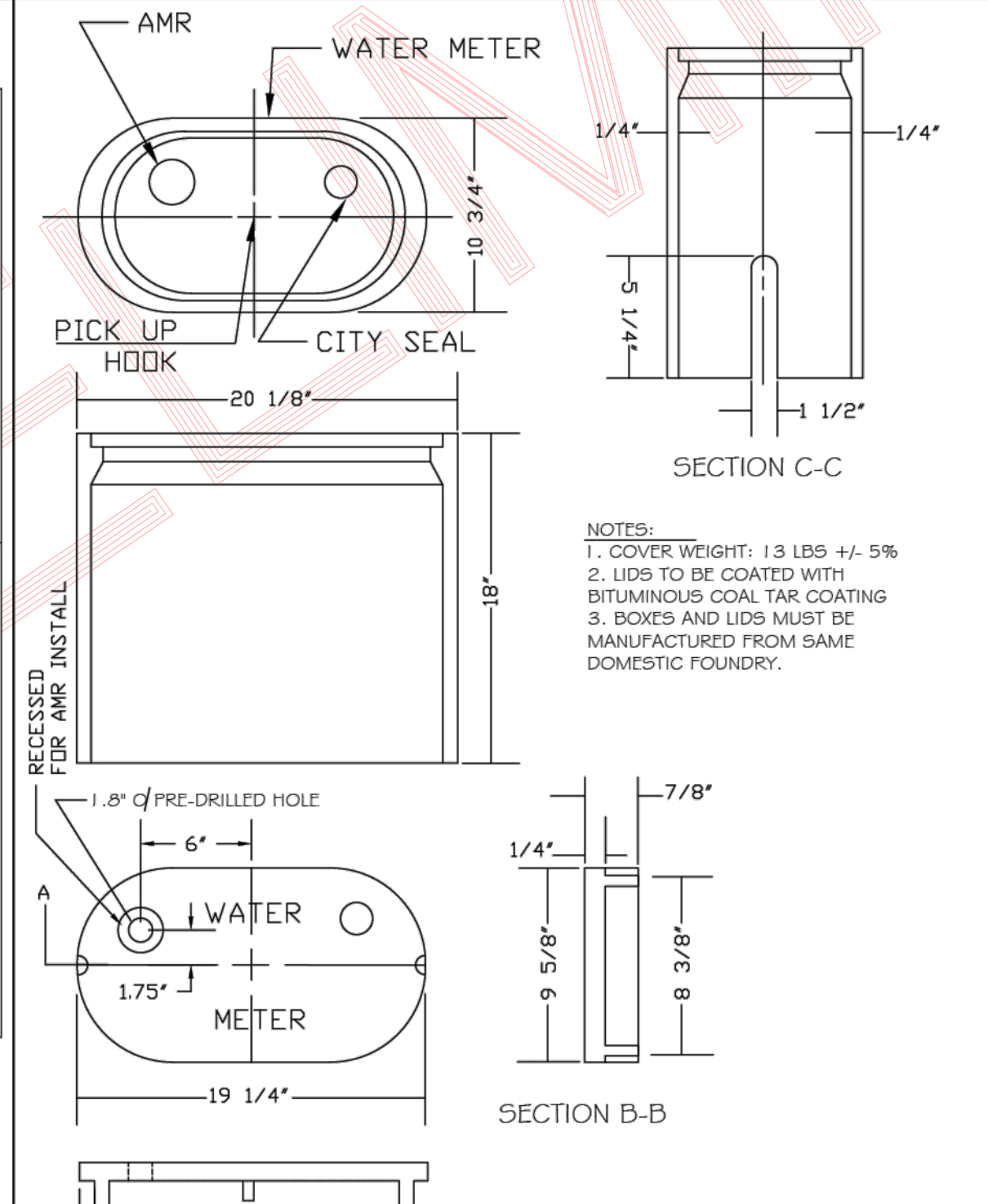
CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES			
STANDARD FIRE HYDRANT WITH 5" STORZ PUMPER NOZZLE			
DWG. NO.	REVISIONS	DATE	DATE
W-5	MAB	8-30-16	KAT
		8-15-17	



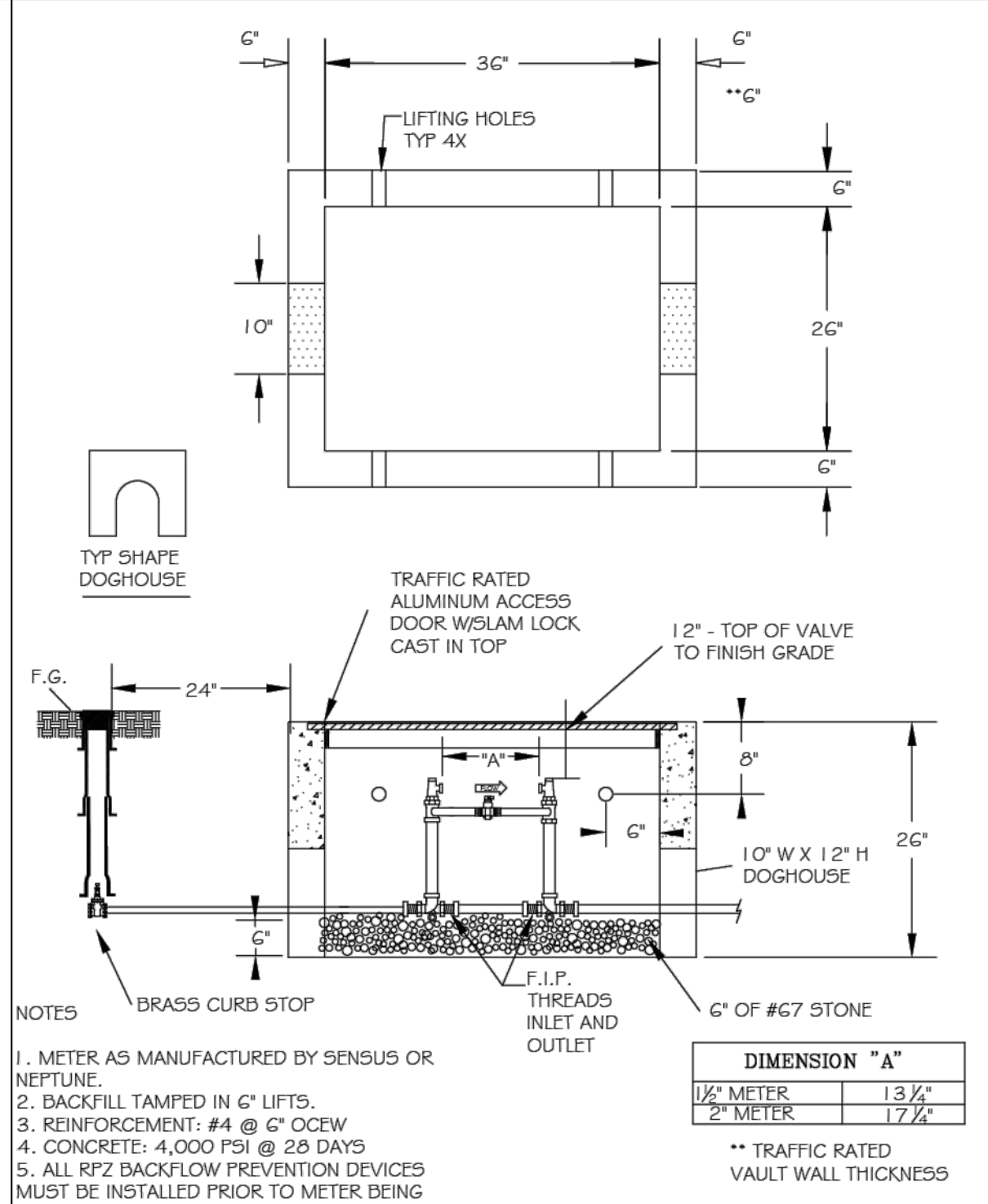
CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES			
STANDARD 3/4" x 1" WATER SERVICE INSTALLATION			
DWG. NO.	REVISIONS	DATE	DATE
W-23	ABB	4-6-04	RKV
	D.H.L.	6/18/08	7/23/13



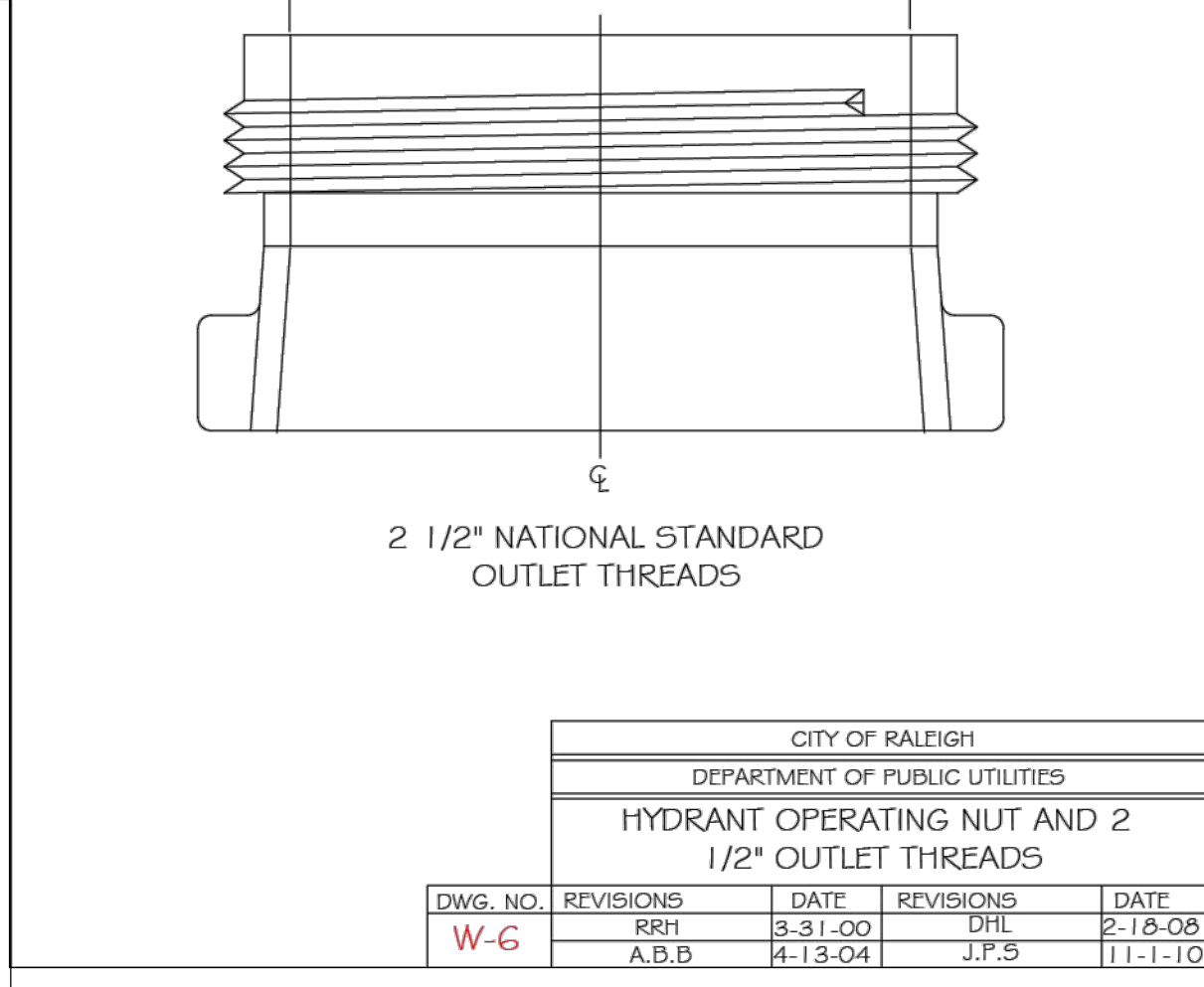
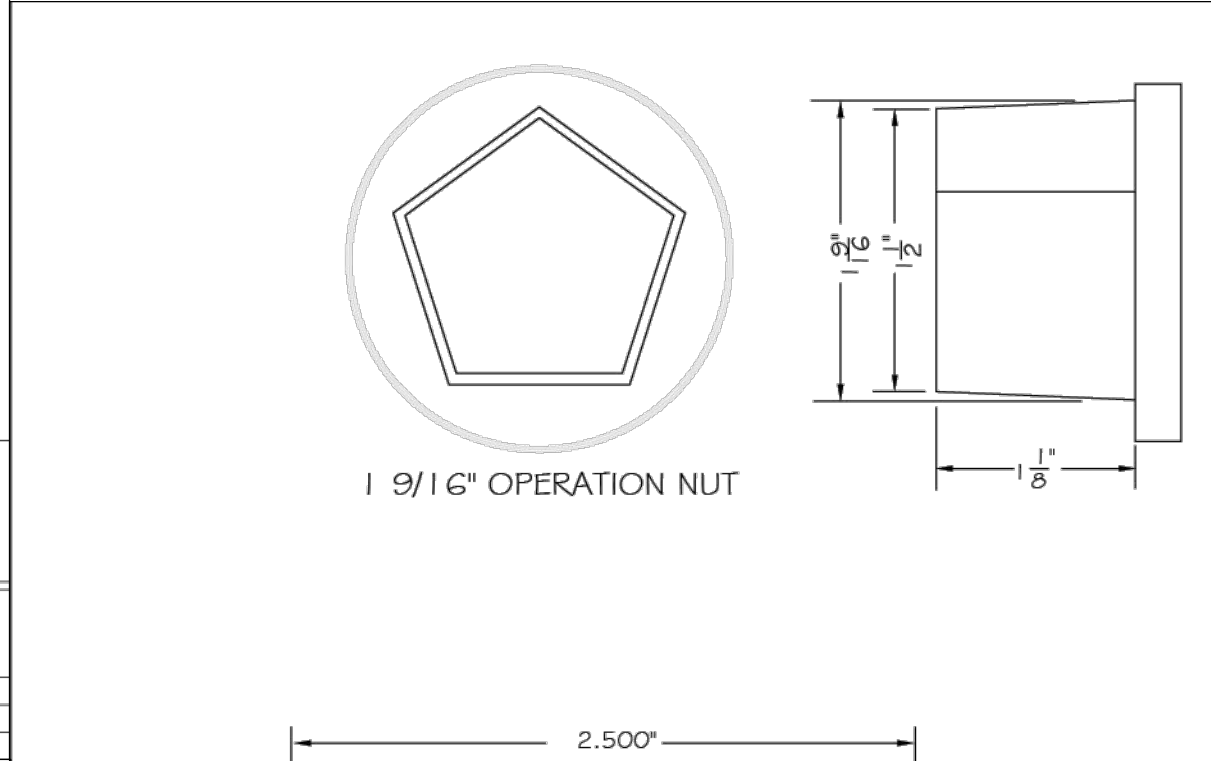
CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES			
ONE OR TWO FAMILY DWELLINGS BACKFLOW PREVENTION/ METER ASSEMBLY INSTALLATION			
DWG. NO.	REVISIONS	DATE	DATE
W-24	Y.C.A.	12-31-91	D.H.L.
	A.B.B.	4-7-04	J.P.S.
		11/4/10	



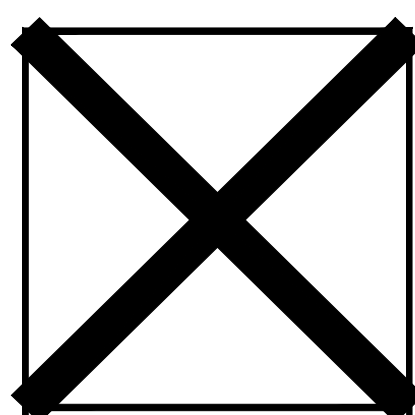
CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES			
WATER METER BOX DETAIL			
DWG. NO.	REVISIONS	DATE	DATE
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		11-4-10	



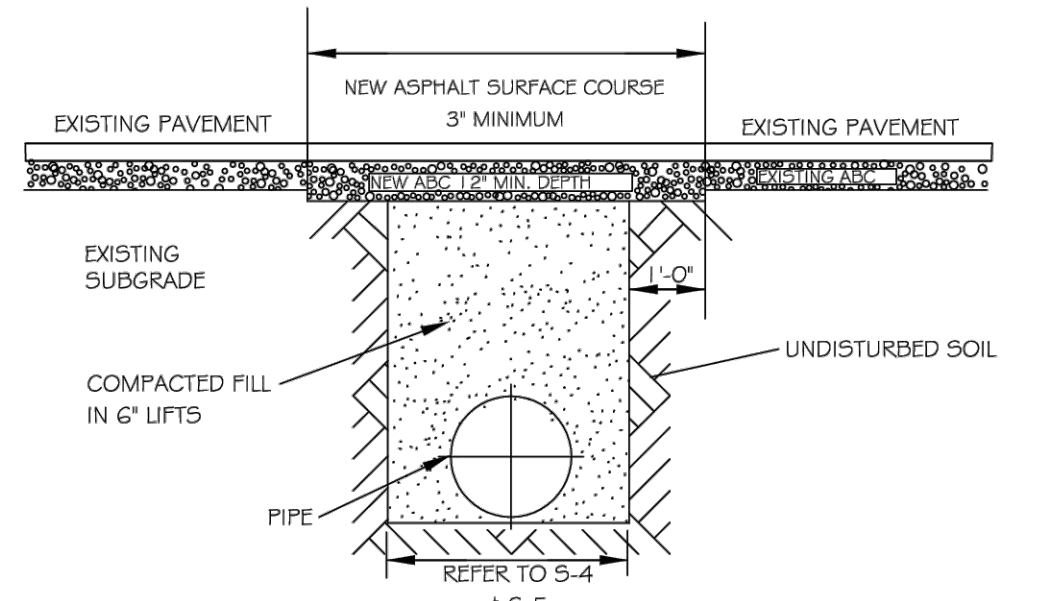
CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES			
TYPICAL 1 1/2" x 2" WATER METER BOX INSTALLATION			
DWG. NO.	REVISIONS	DATE	DATE
W-31	A.B.B.	8-17-04	J.P.S.
	D.H.L.	6-18-08	



CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES			
HYDRANT OPERATING NUT AND 2 1/2" OUTLET THREADS			
DWG. NO.	REVISIONS	DATE	DATE
W-6	RRH	3-31-00	D.H.L.
	A.B.B.	4-13-04	J.P.S.
		2-18-08	11-1-10

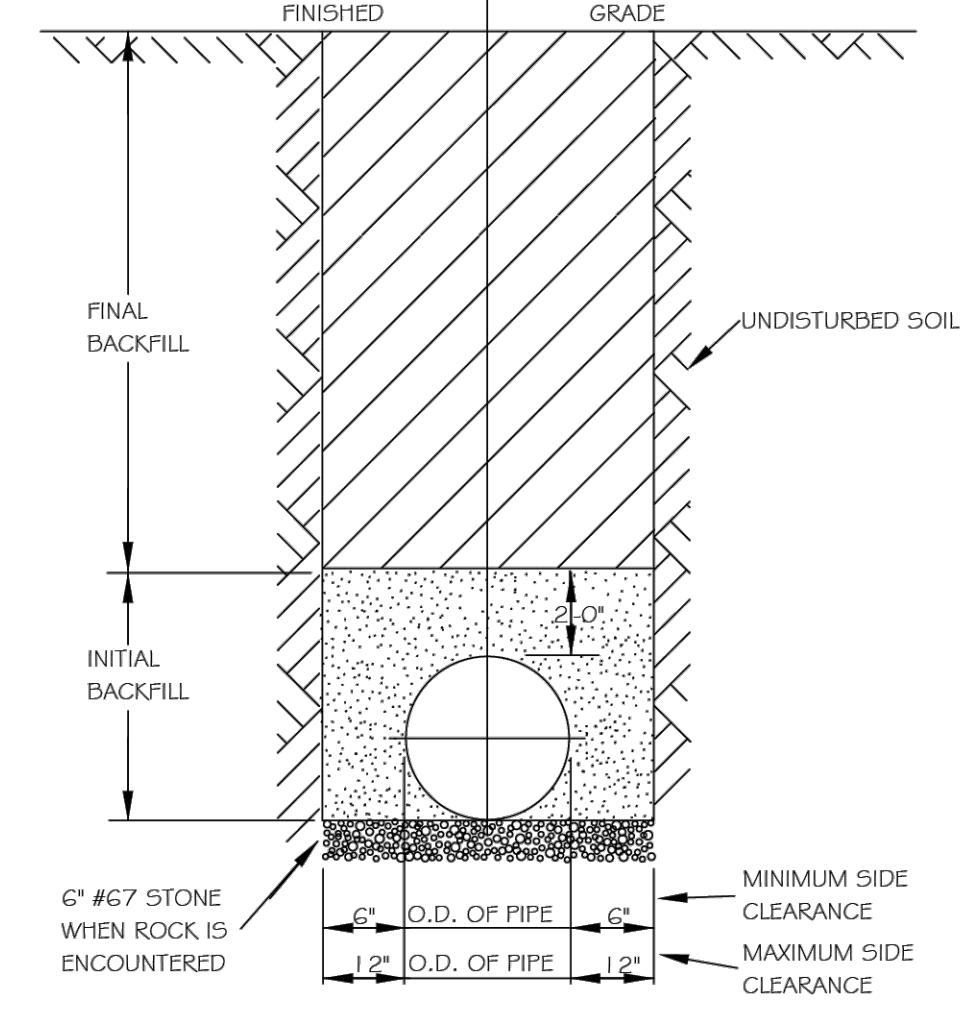


Water Details For Spring Arces Subdivision



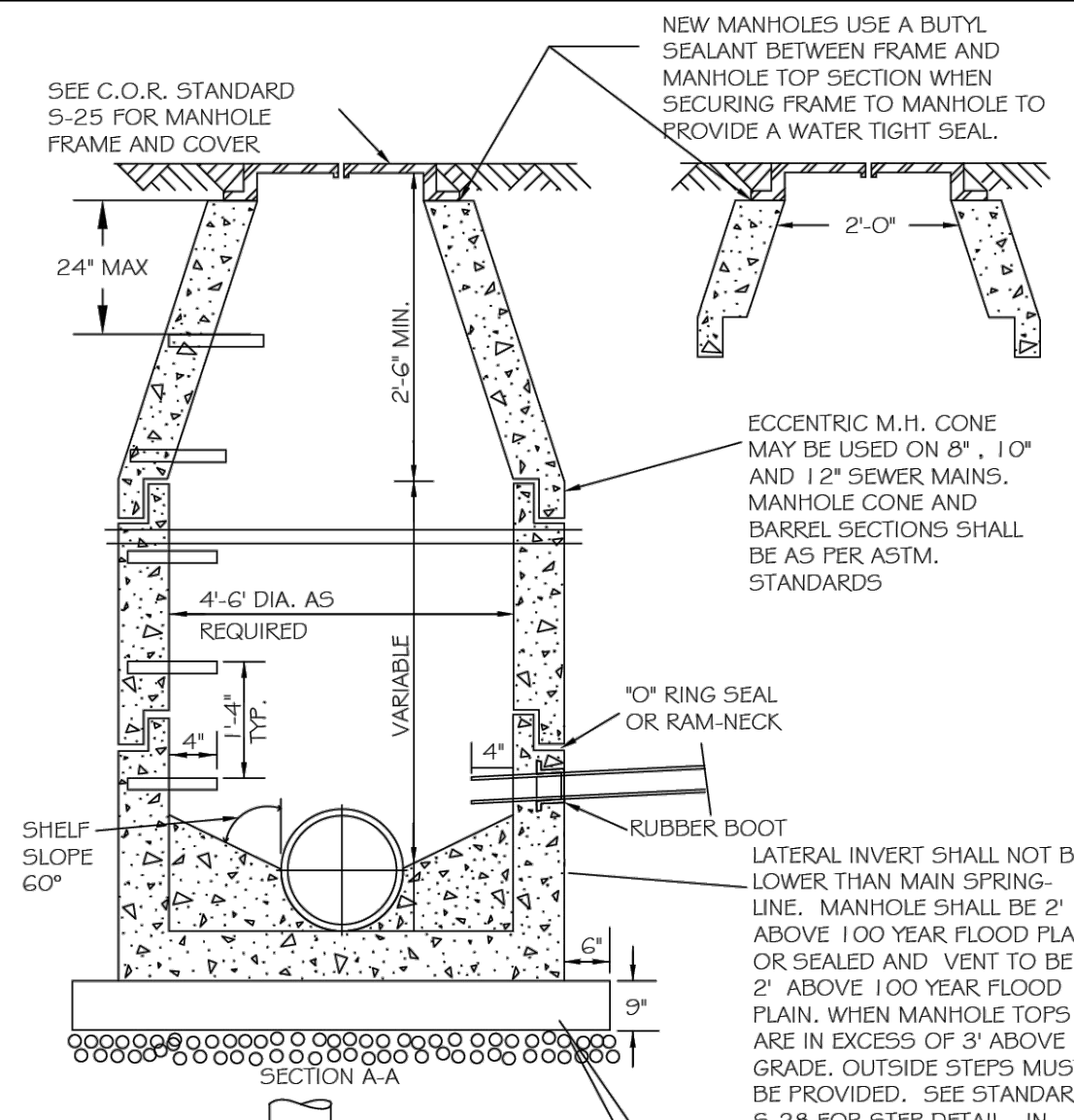
- NOTES:
1. IN NCDOT MAINTAINED ROADWAYS ENCROACHMENT PAVEMENT PATCH REQUIREMENTS SHALL TAKE PRECEDENCE.
  2. THE PAVEMENT CUT SHALL BE DEFINED BY A STRAIGHT EDGE AND CUT WITH AN APPROPRIATE SAWCUT MACHINE.
  3. THE TRENCH SUBGRADE MATERIAL SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED TO A DENSITY OF AT LEAST 95% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY NCDOT.
  4. THE FINAL 1\"/>

CITY OF RALEIGH					
DEPARTMENT OF PUBLIC UTILITIES					
STANDARD ASPHALT PAVEMENT PATCH DETAIL					
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE	
S-3	D.W.C.	11-1-99	A.B.B.	4-19-04	
	RRH	3-30-00	J.P.S.	10-8-10	

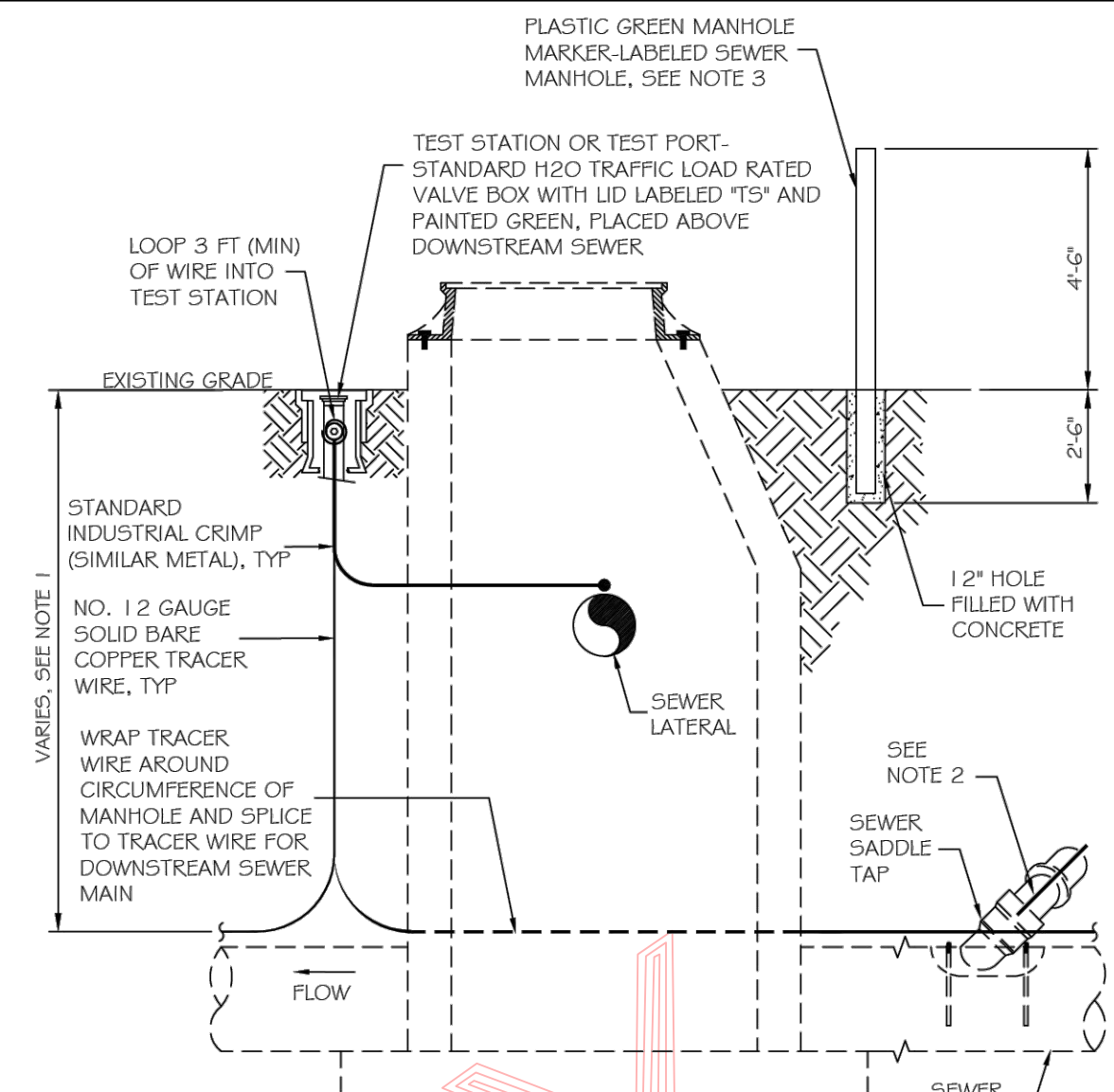


- NOTES:
1. TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING.
  2. NO ROCKS OR BOULDERS 4\"/>

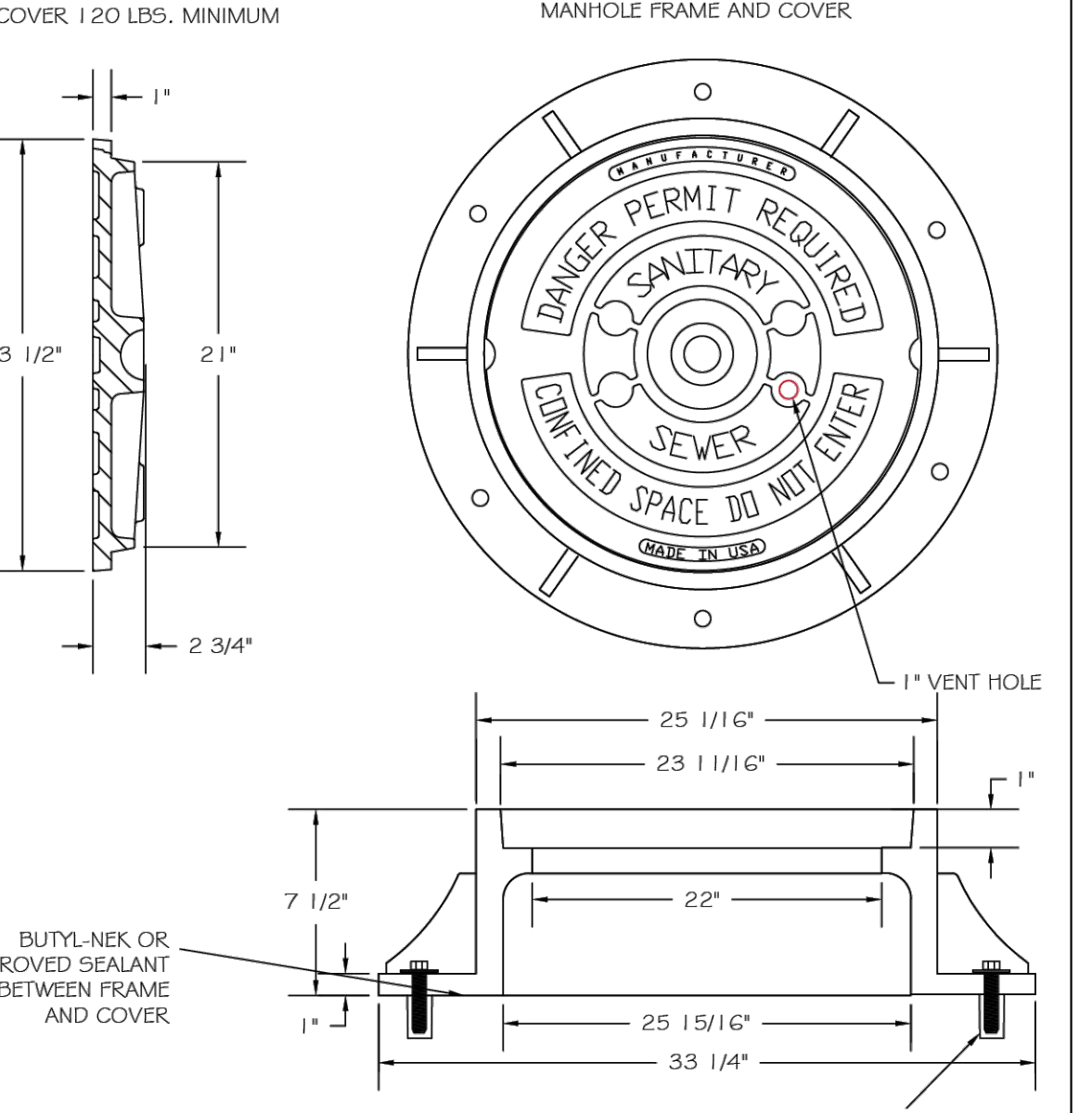
CITY OF RALEIGH					
DEPARTMENT OF PUBLIC UTILITIES					
TRENCH BOTTOM DIMENSIONS & BACKFILLING REQUIREMENTS FOR DUCTILE IRON					
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE	
S-4	D.W.C.	9-3-99			
	RRH	3-30-00			



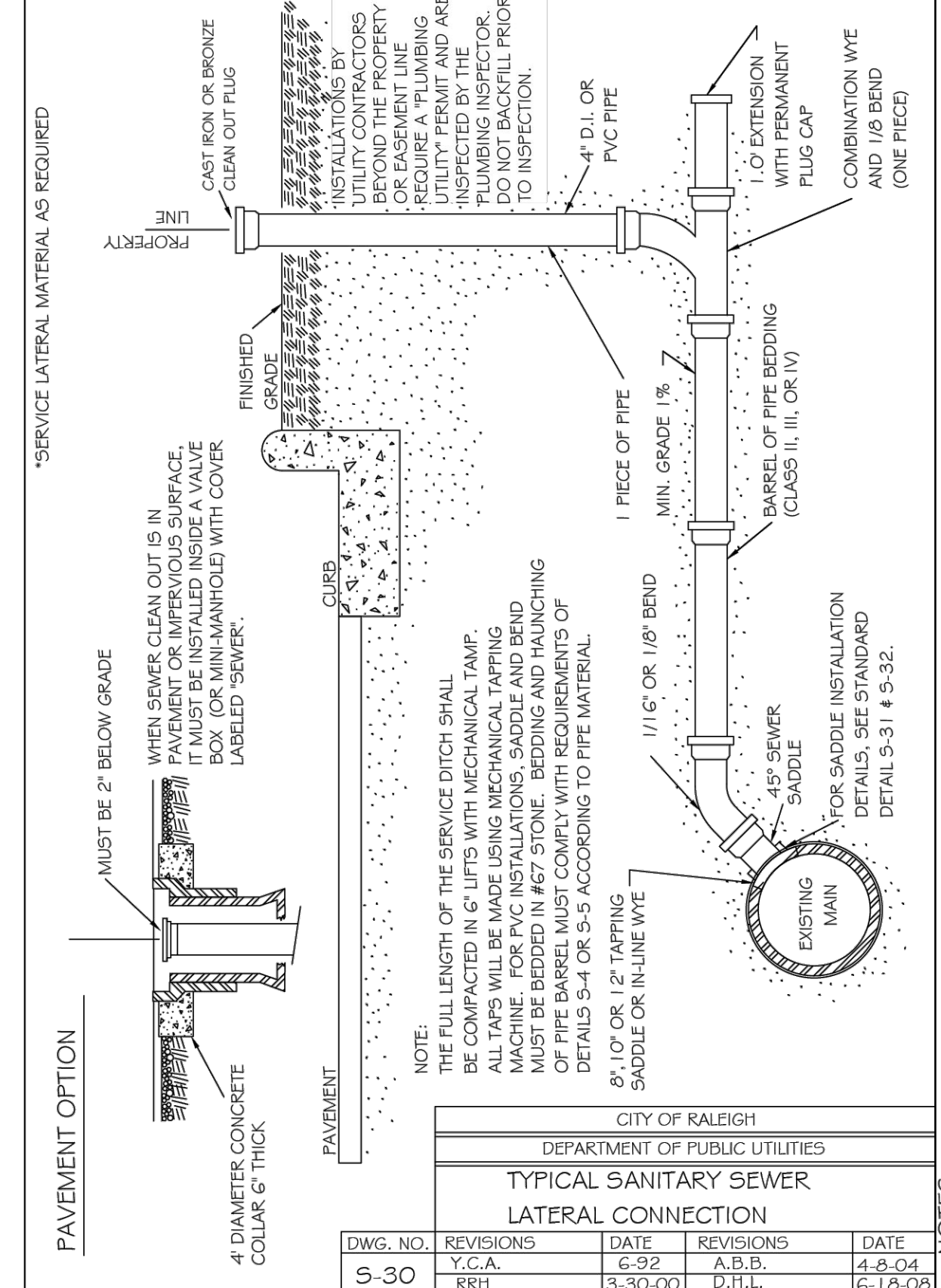
CITY OF RALEIGH					
DEPARTMENT OF PUBLIC UTILITIES					
STANDARD PRECAST SANITARY SEWER MANHOLE					
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE	
S-20	Y.C.A.	12-31-92	ABS	2-21-05	
	RRH	3-30-00	D.H.L.	6-16-08	



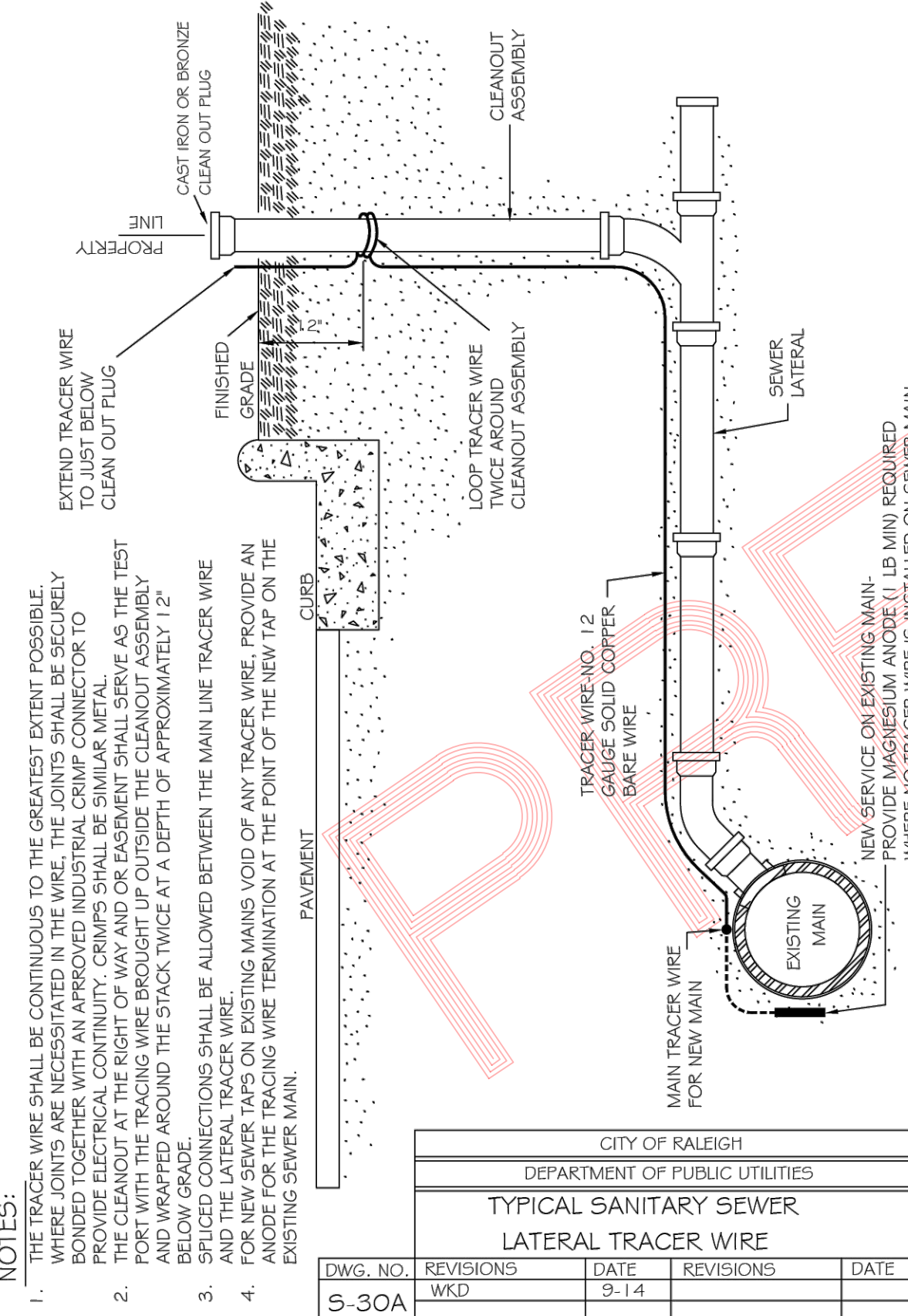
CITY OF RALEIGH					
DEPARTMENT OF PUBLIC UTILITIES					
GRAVITY SEWER MAIN TRACER WIRE AND MANHOLE MARKER					
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE	
S-20A	W.K.D.	09-14			



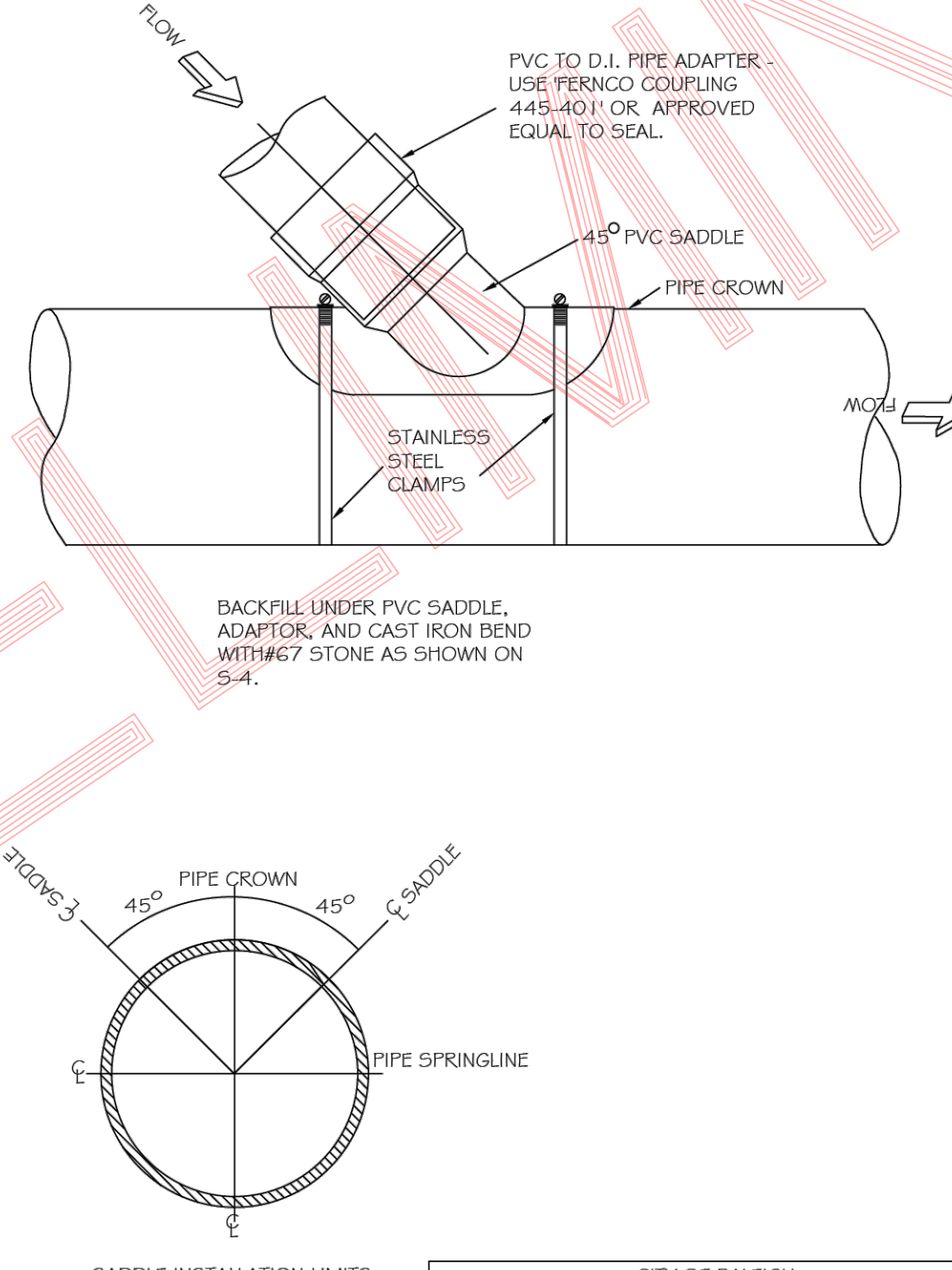
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DEPARTMENT OF PUBLIC UTILITIES					
STANDARD MANHOLE COVER					
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S-25	3-1-87	3-1-87	A.B.B.	2-9-05	
	RRH	3-30-00	D.H.L.	6-18-08	



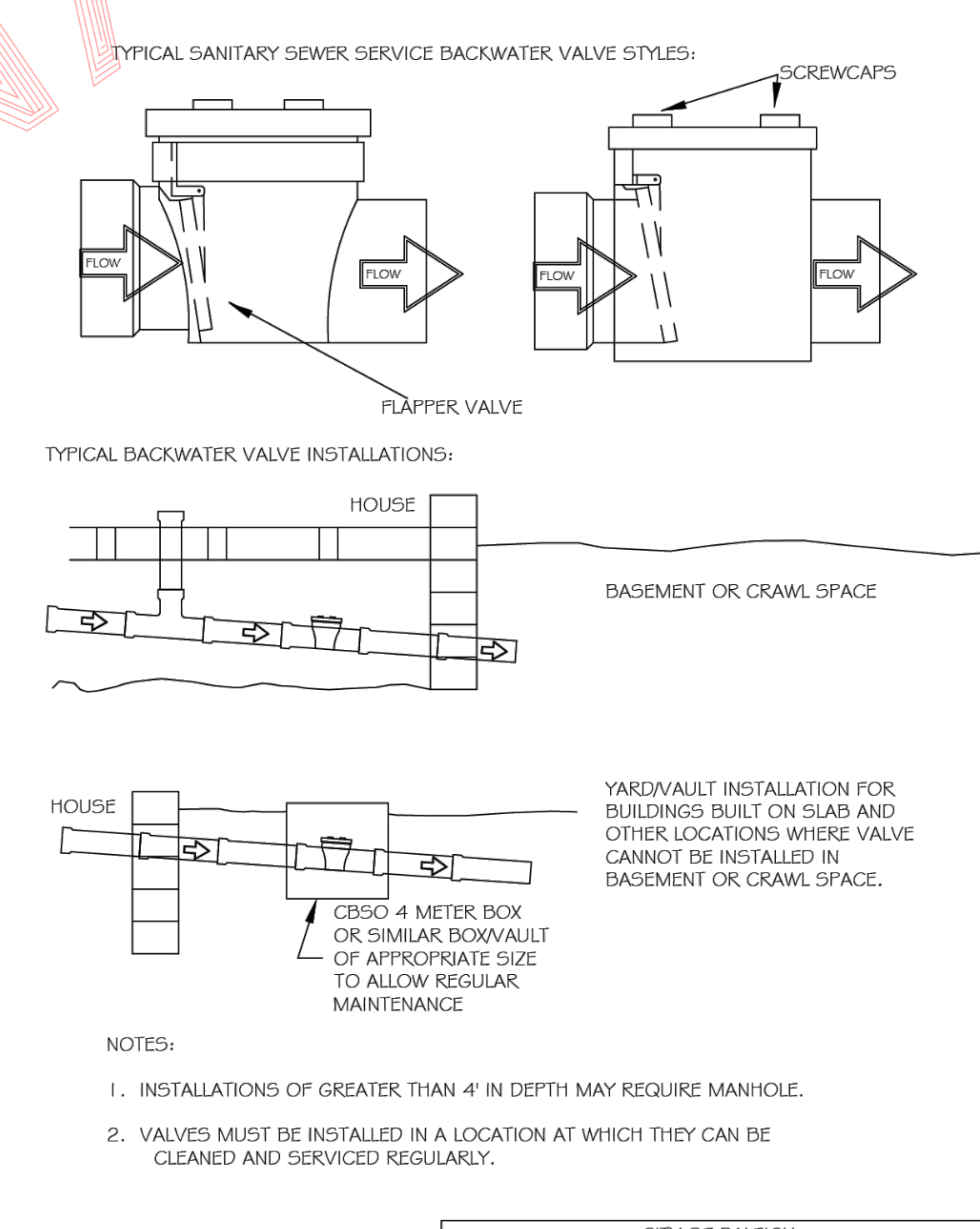
CITY OF RALEIGH					
DEPARTMENT OF PUBLIC UTILITIES					
TYPICAL SANITARY SEWER LATERAL CONNECTION					
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE	
S-30	Y.C.A.	6-92	A.B.B.	4-8-04	
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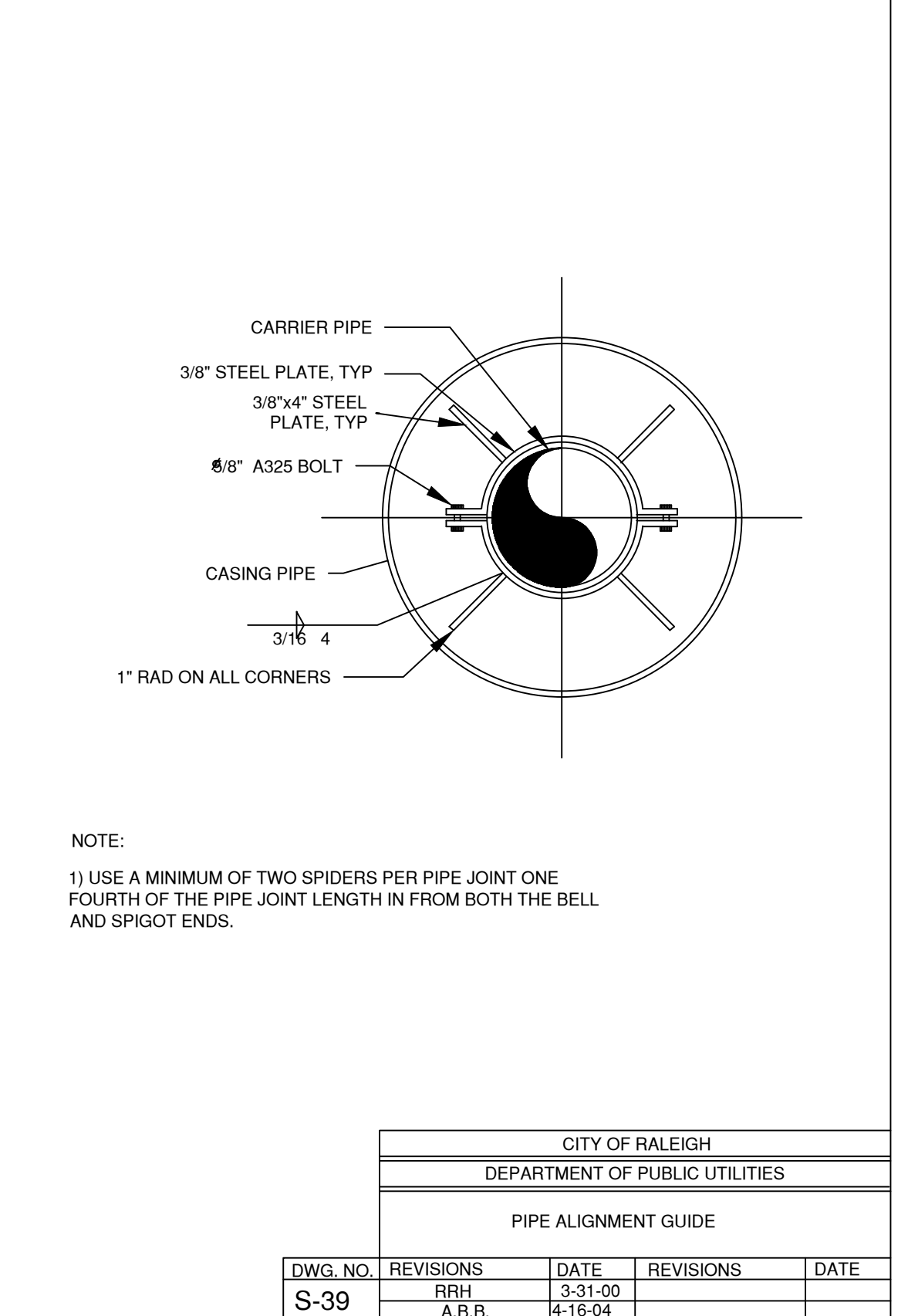
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DEPARTMENT OF PUBLIC UTILITIES					
TYPICAL SANITARY SEWER LATERAL TRACER WIRE					
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S-30A	W.K.D.	9-14			



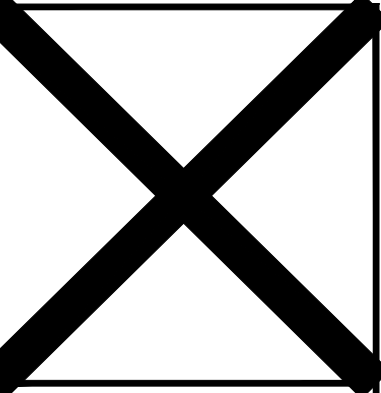
CITY OF RALEIGH					
DEPARTMENT OF PUBLIC UTILITIES					
LATERAL SADDLE INSTALLATION DETAIL FOR PVC PIPE					
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE	
S-31	RRH	3-30-00			



CITY OF RALEIGH					
DEPARTMENT OF PUBLIC UTILITIES					
TYPICAL SANITARY SEWER SERVICE BACKWATER VALVE INSTALLATION					
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE	
S-38	RRH	3-31-00			



CITY OF RALEIGH					
DEPARTMENT OF PUBLIC UTILITIES					
PIPE ALIGNMENT GUIDE					
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE	
S-39	RRH	3-31-00			
	A.B.B.	4-16-04			



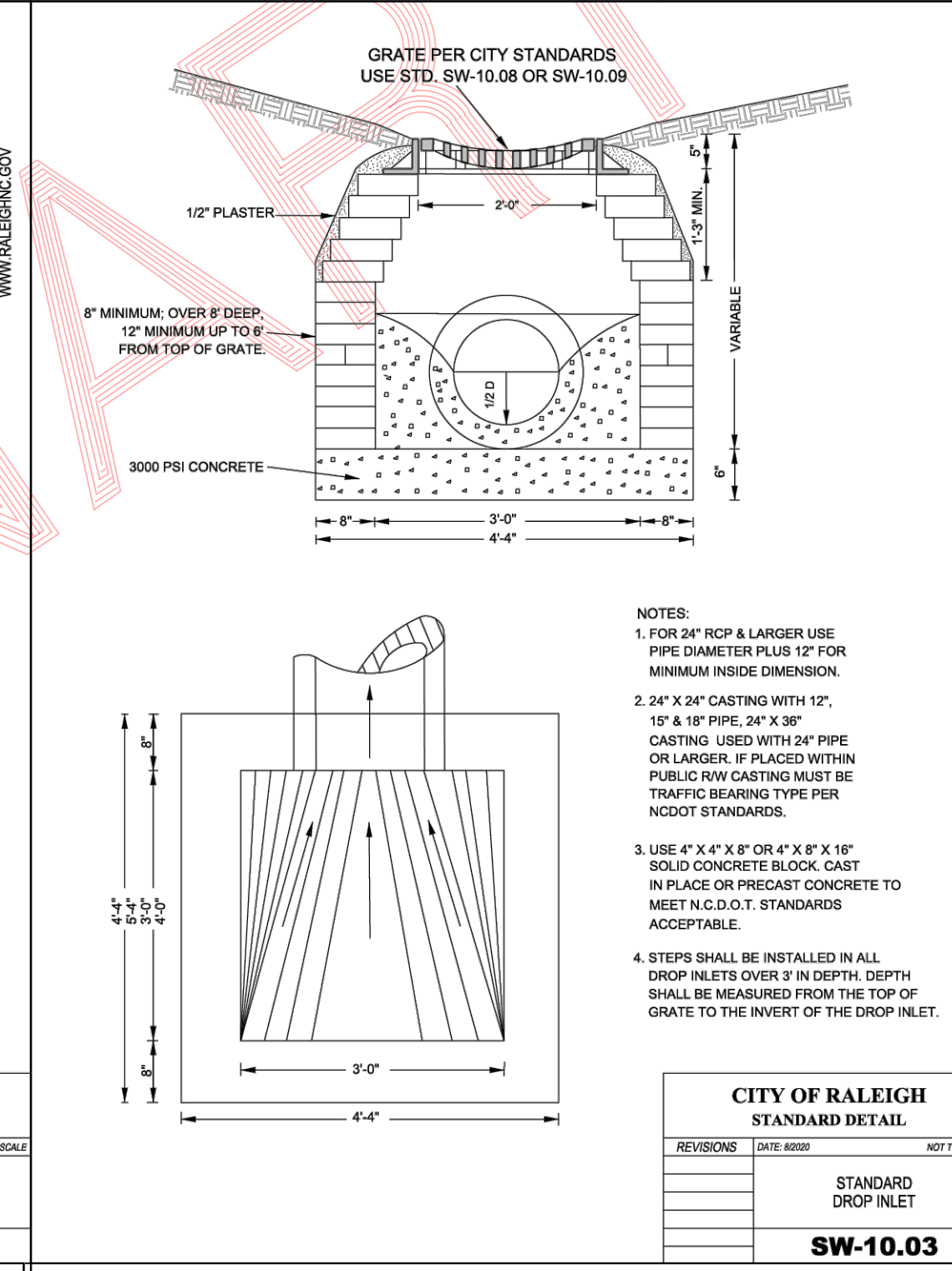
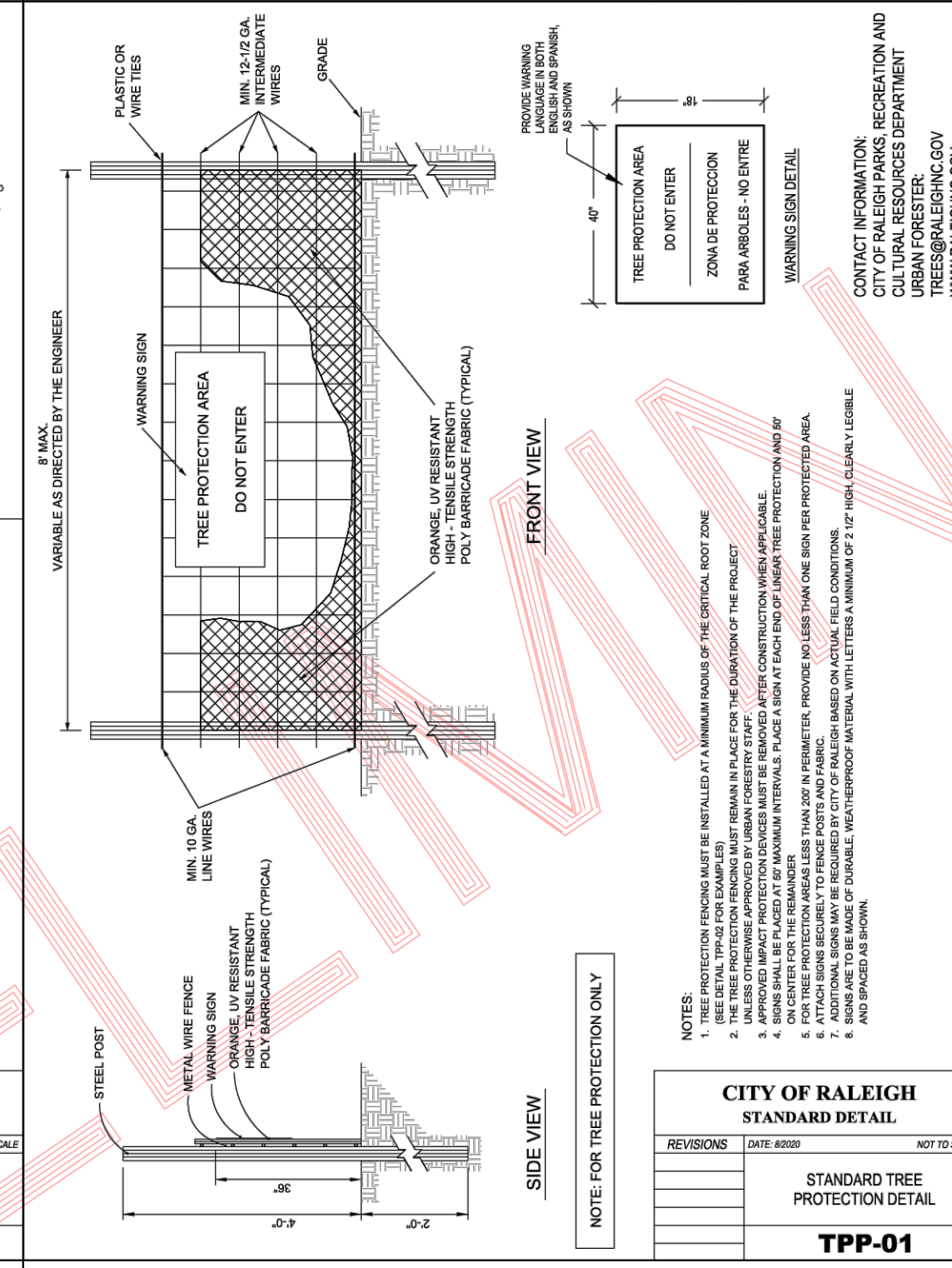
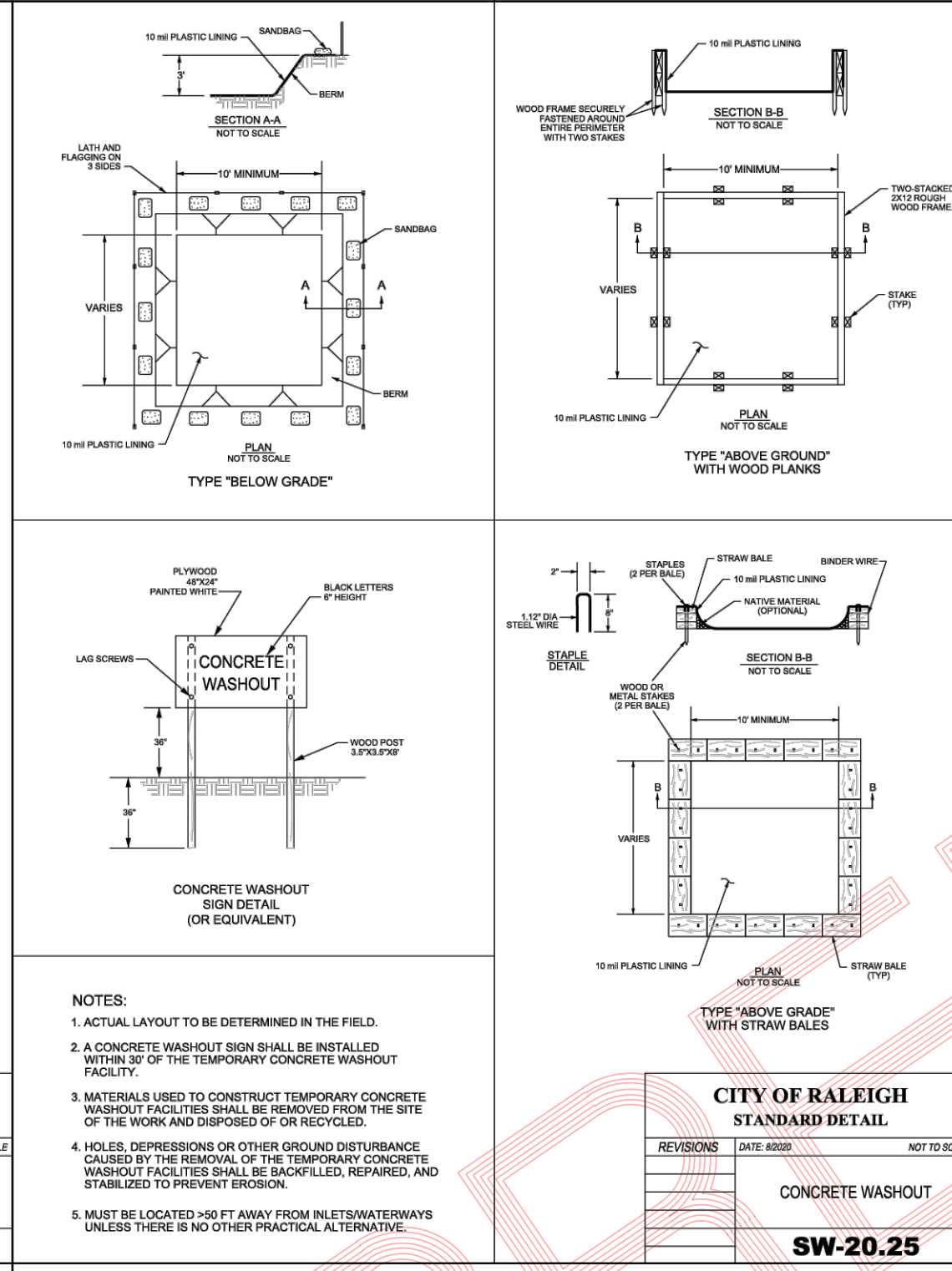
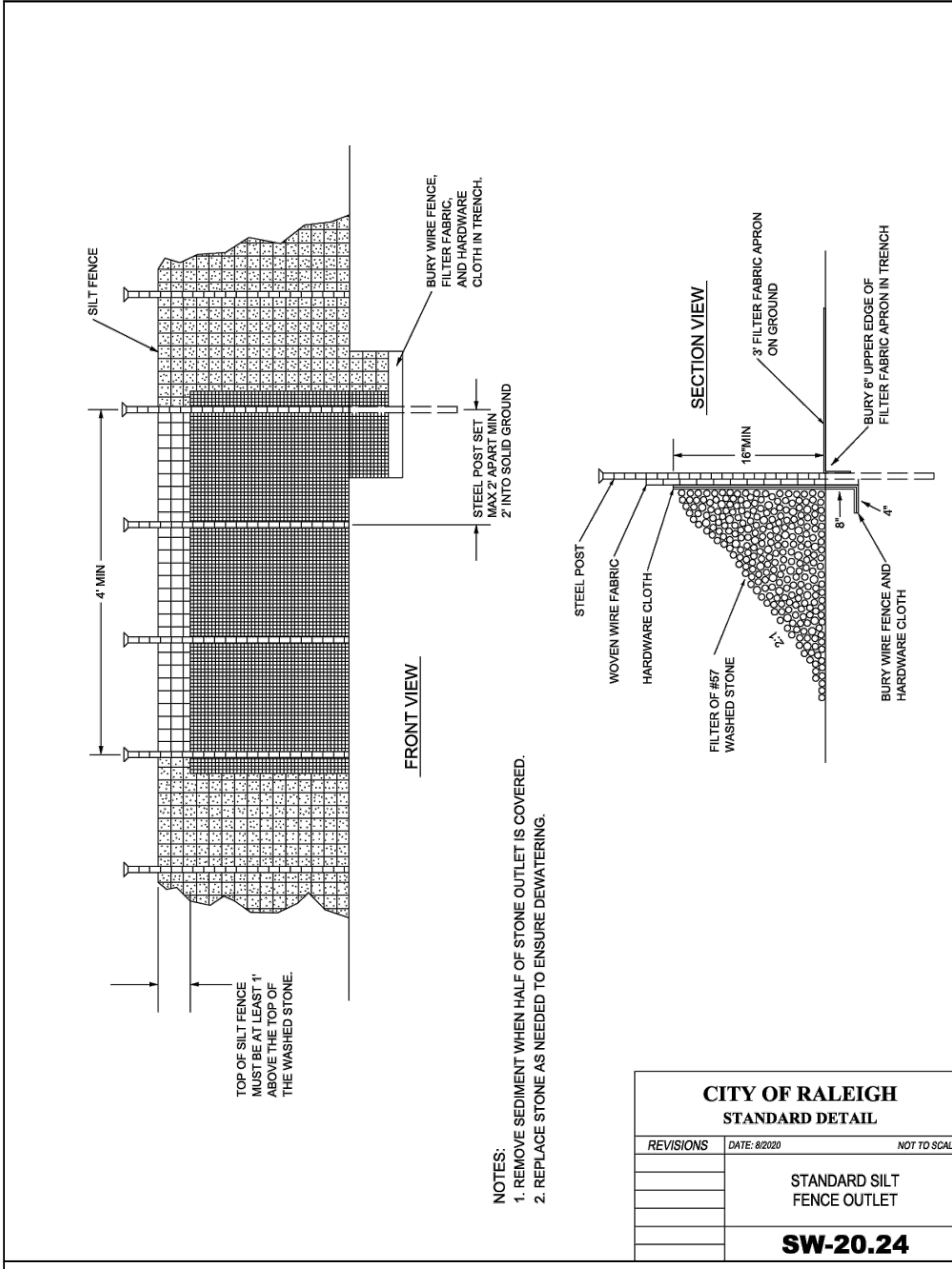
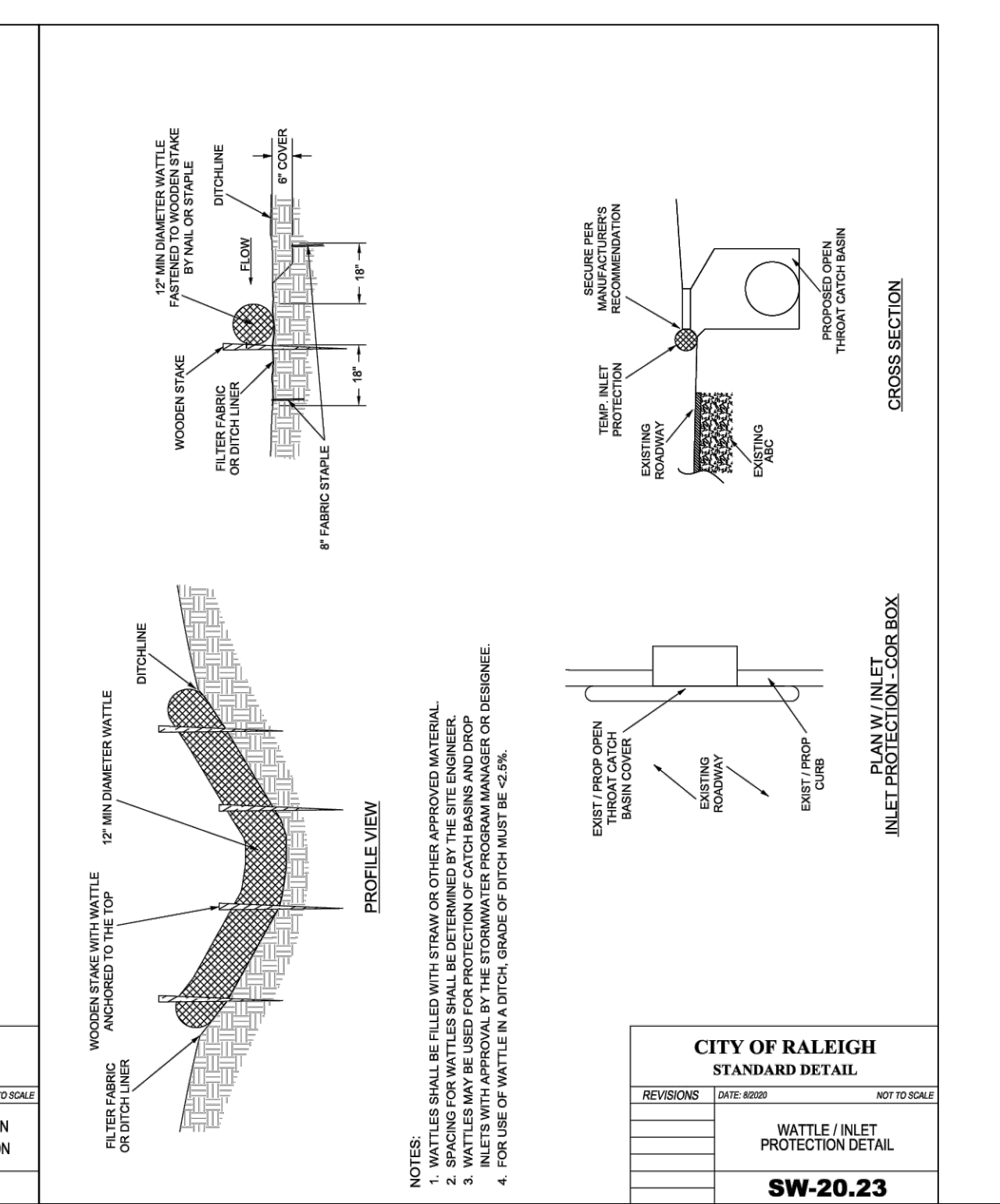
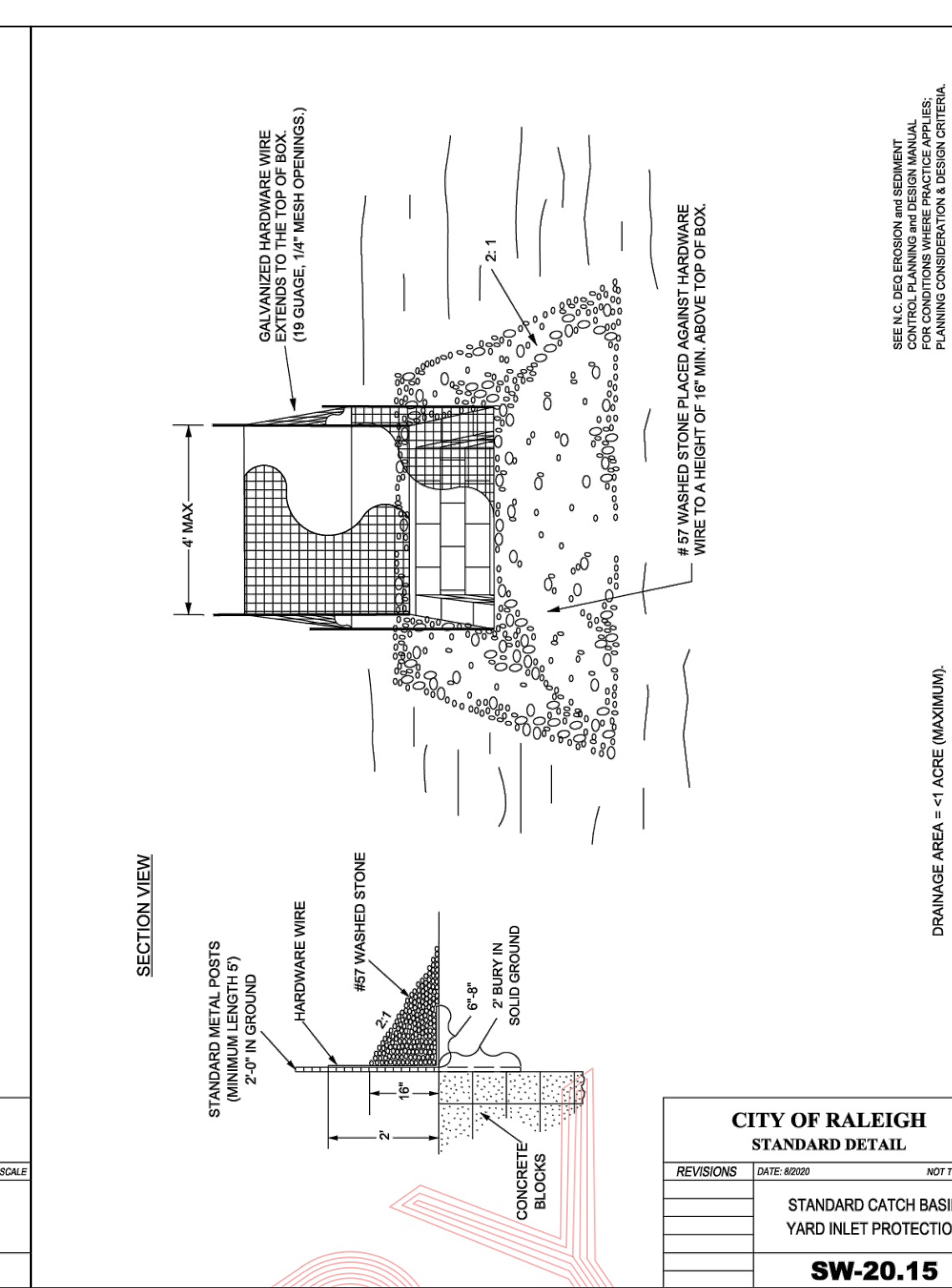
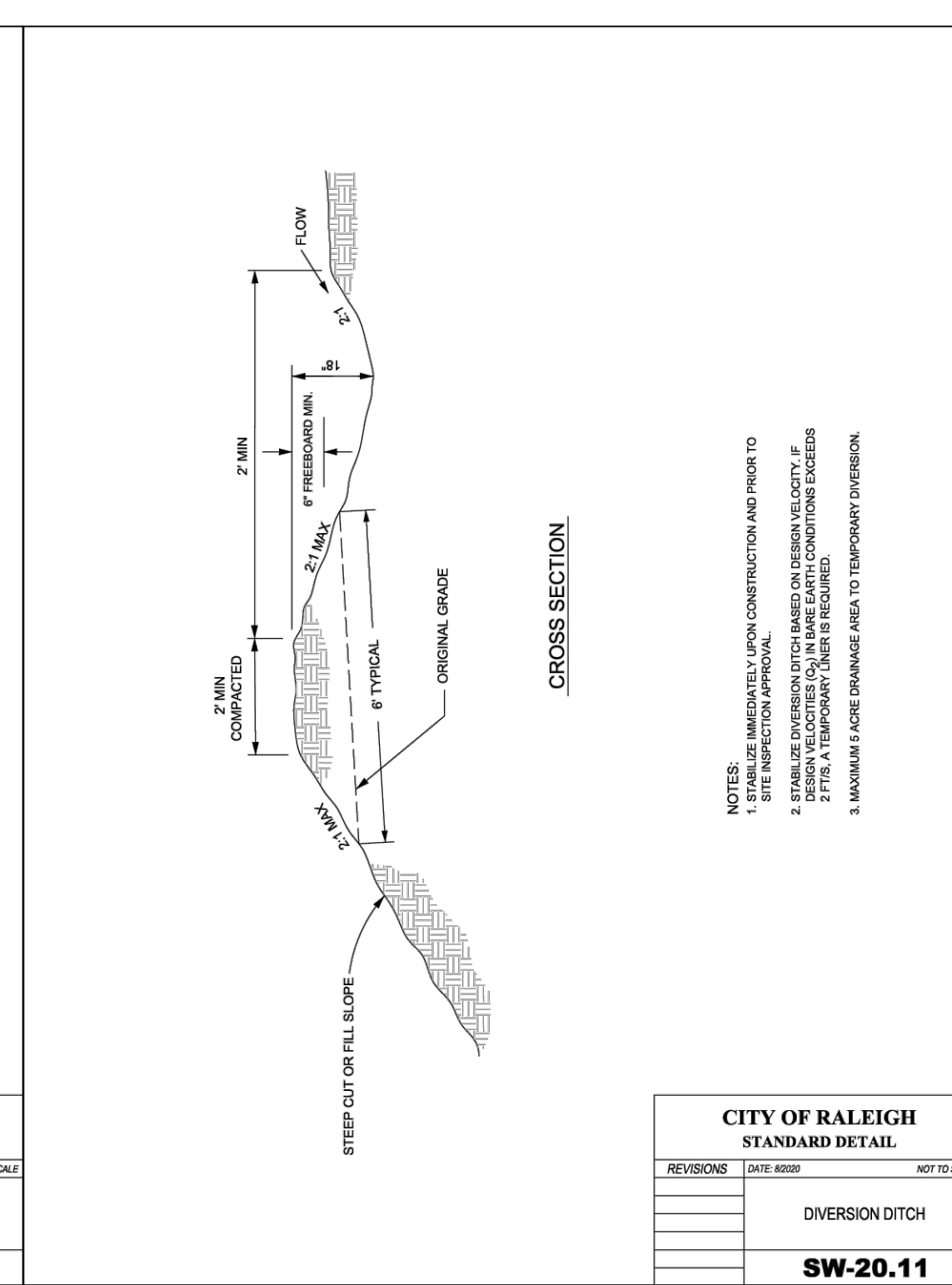
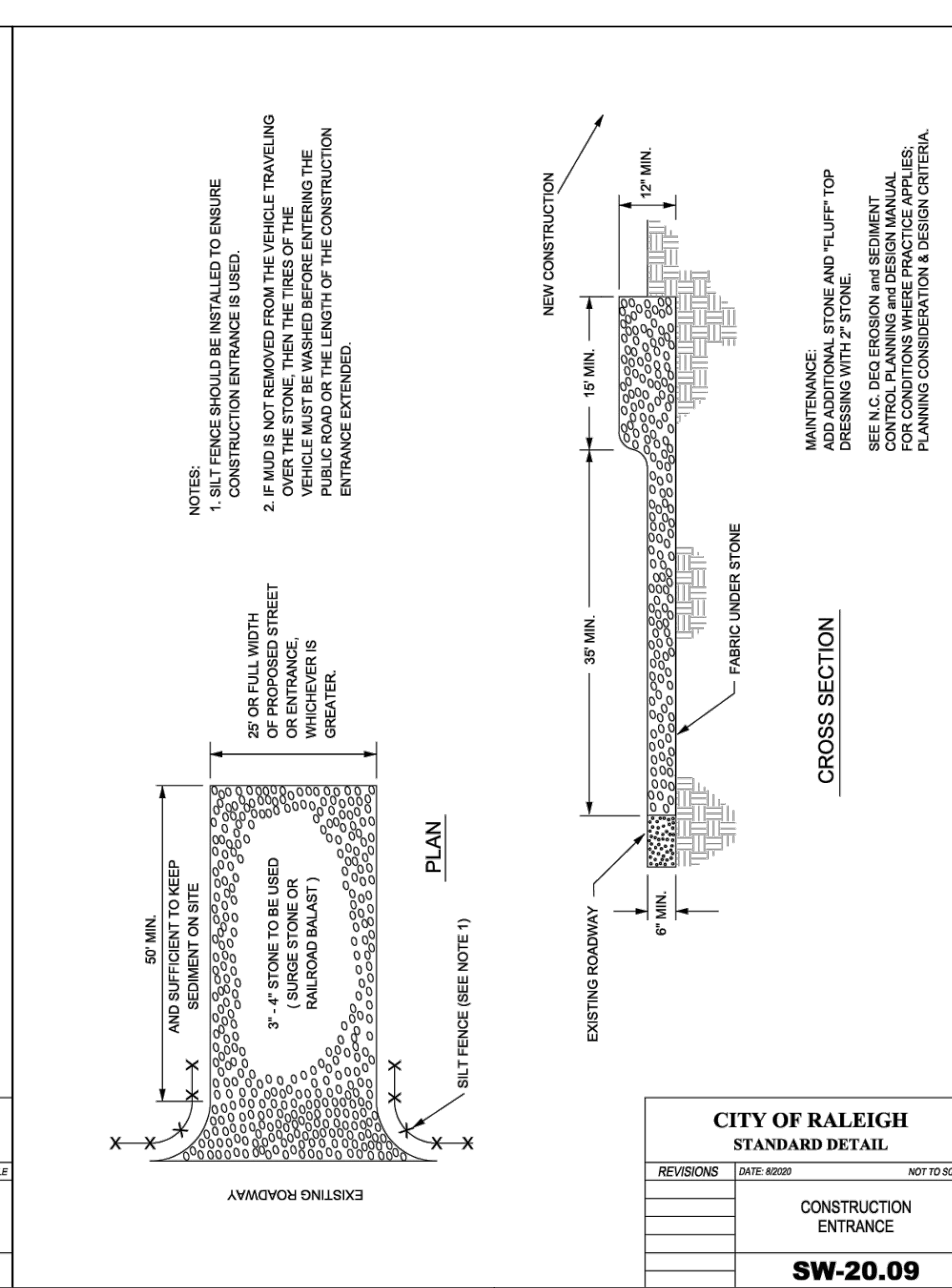
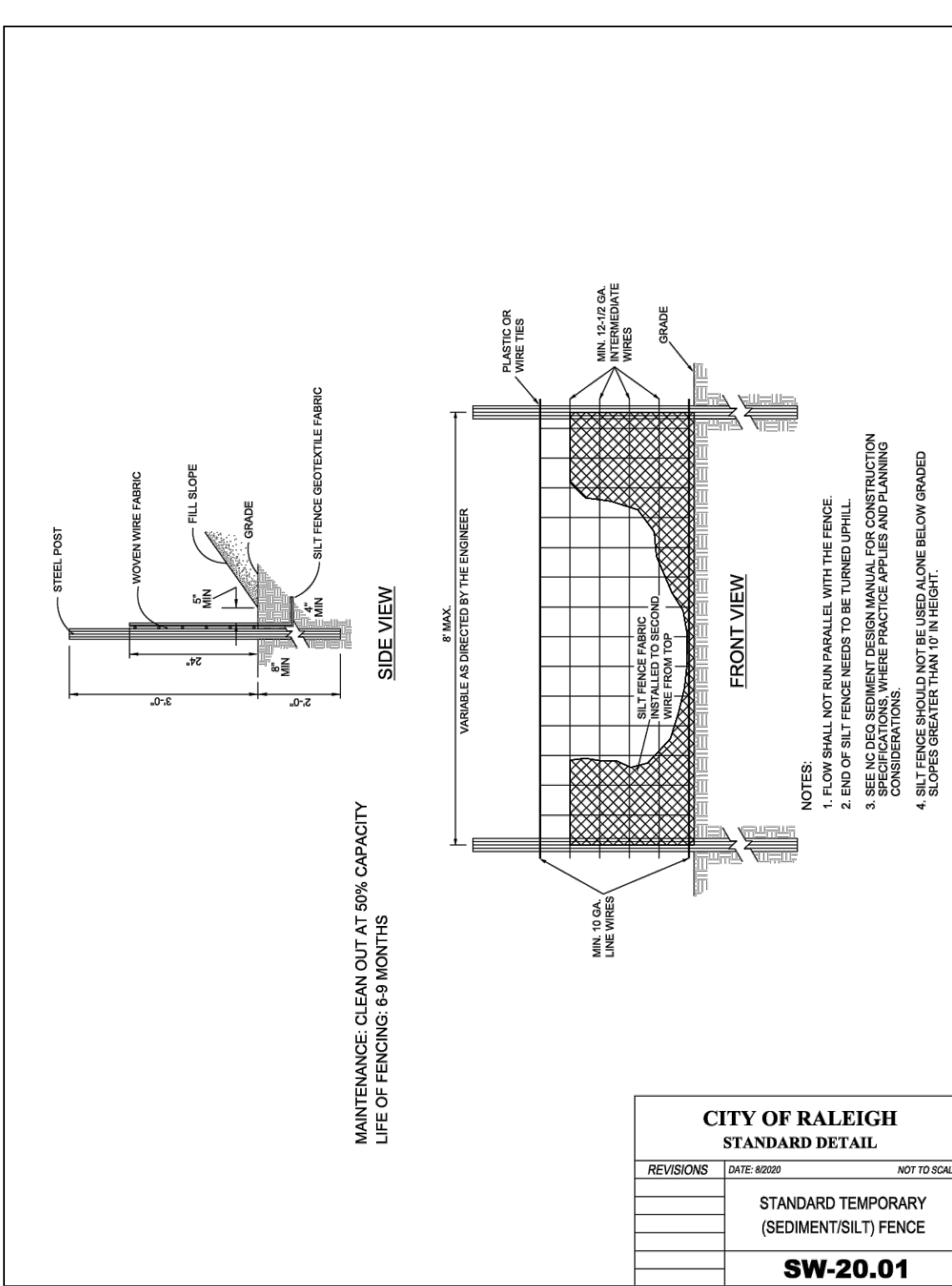
**HARRIS ENGINEERING**  
 312 Leacroft Way  
 Morrisville, N.C. 27560  
 (919) 996-9455

Date Started: 1 November 2017  
 Scale: NTS  
 Drawn By: SMK, EDS  
 Printed Date: 29 September 2024  
 File: C:\Users\harris\My Documents\Projects\Wedgewood\Wedgewood D-File.dwg

Revision:  
 03-07-2018 / 12 JUN 2019 (BAH) / 13  
 FEB 2020 (CCG) / 19 AUG 2021  
 (BAH) / 23 OCT 2021 (BET)

Preliminary Subdivision Plan

Sewer Details For  
**Spring Arces Subdivision**



Precast Box Culverts & Crown-Span

20161214TED01

**Isometric View**

**Elevation View**

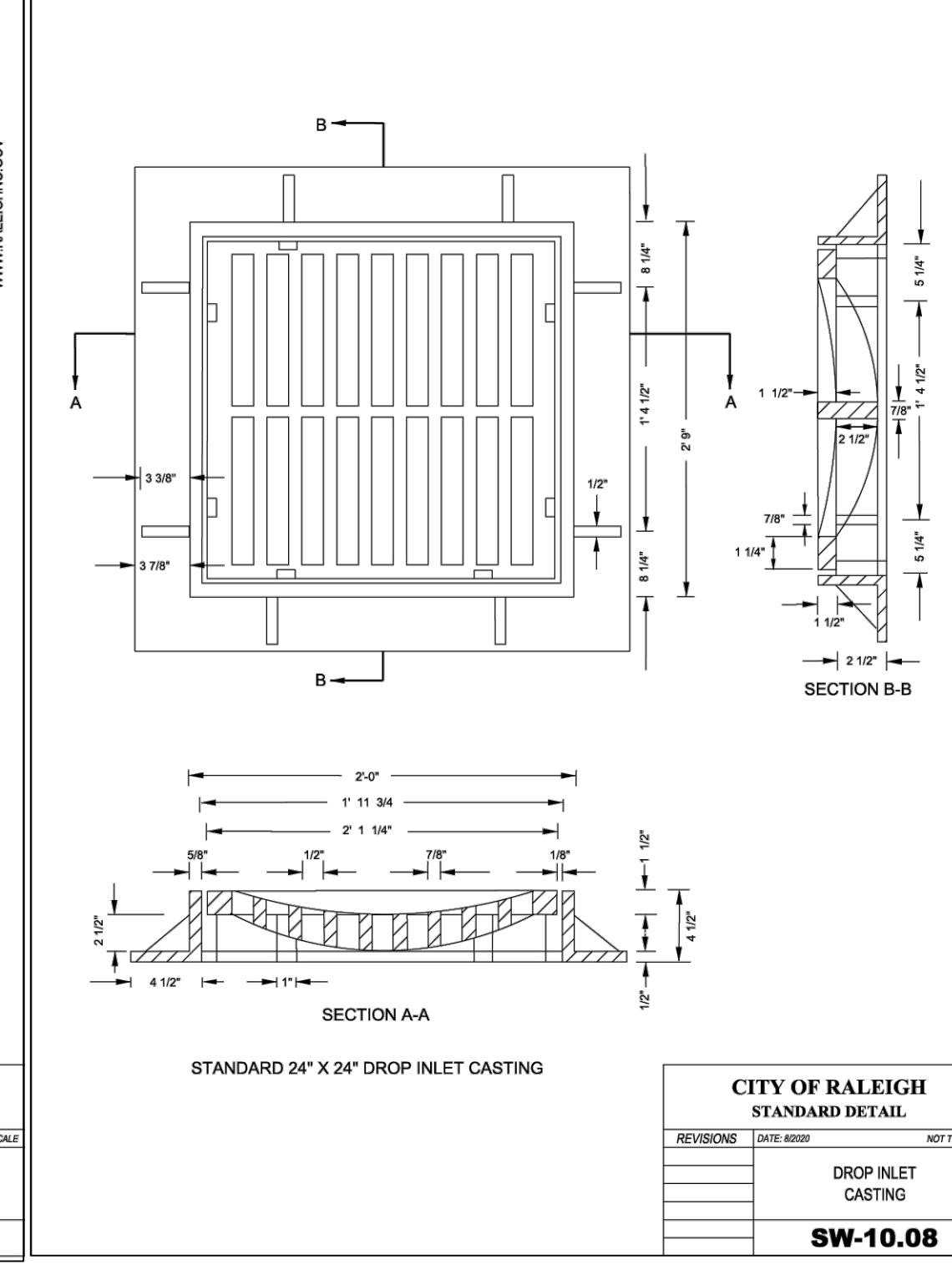
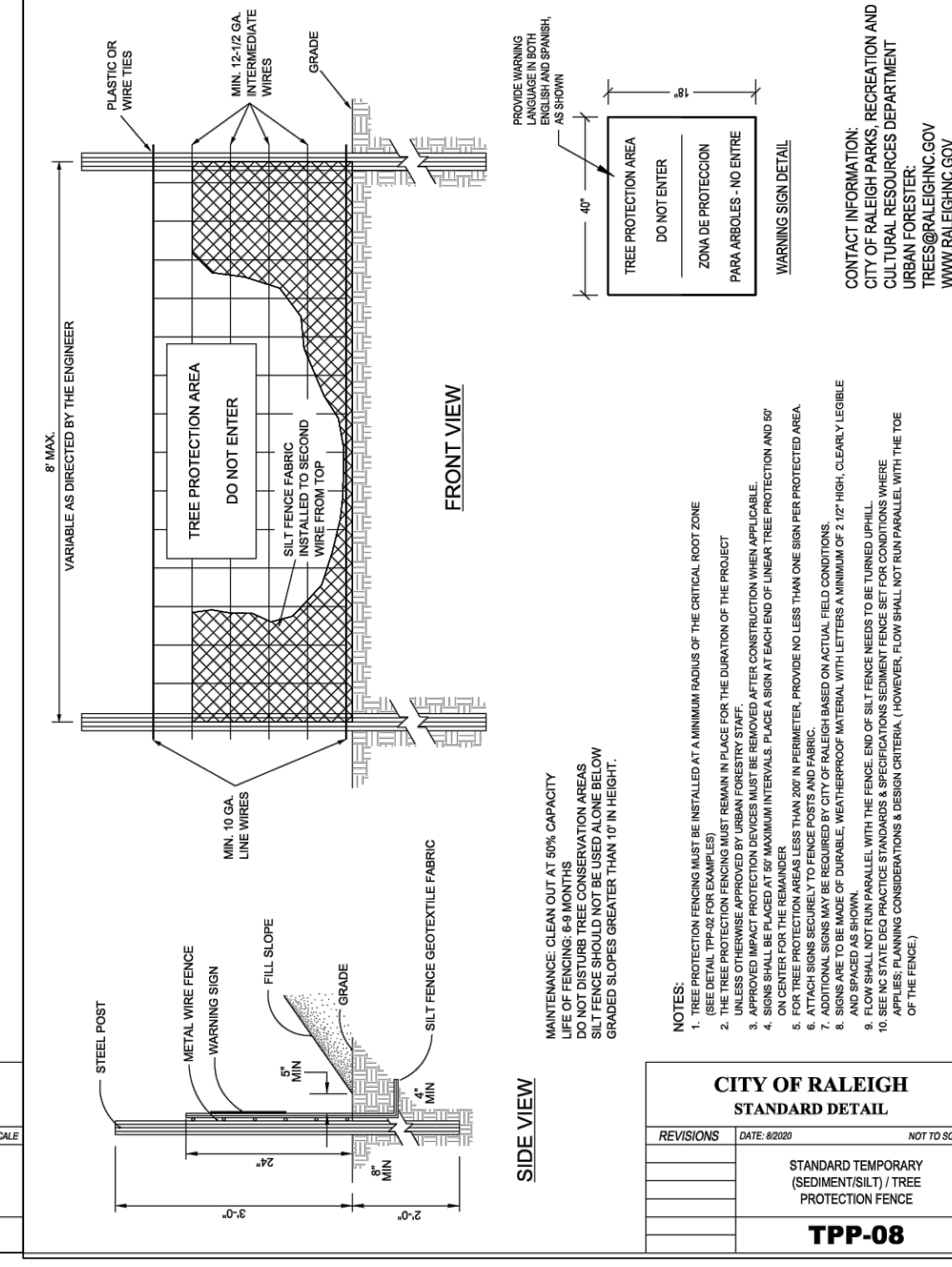
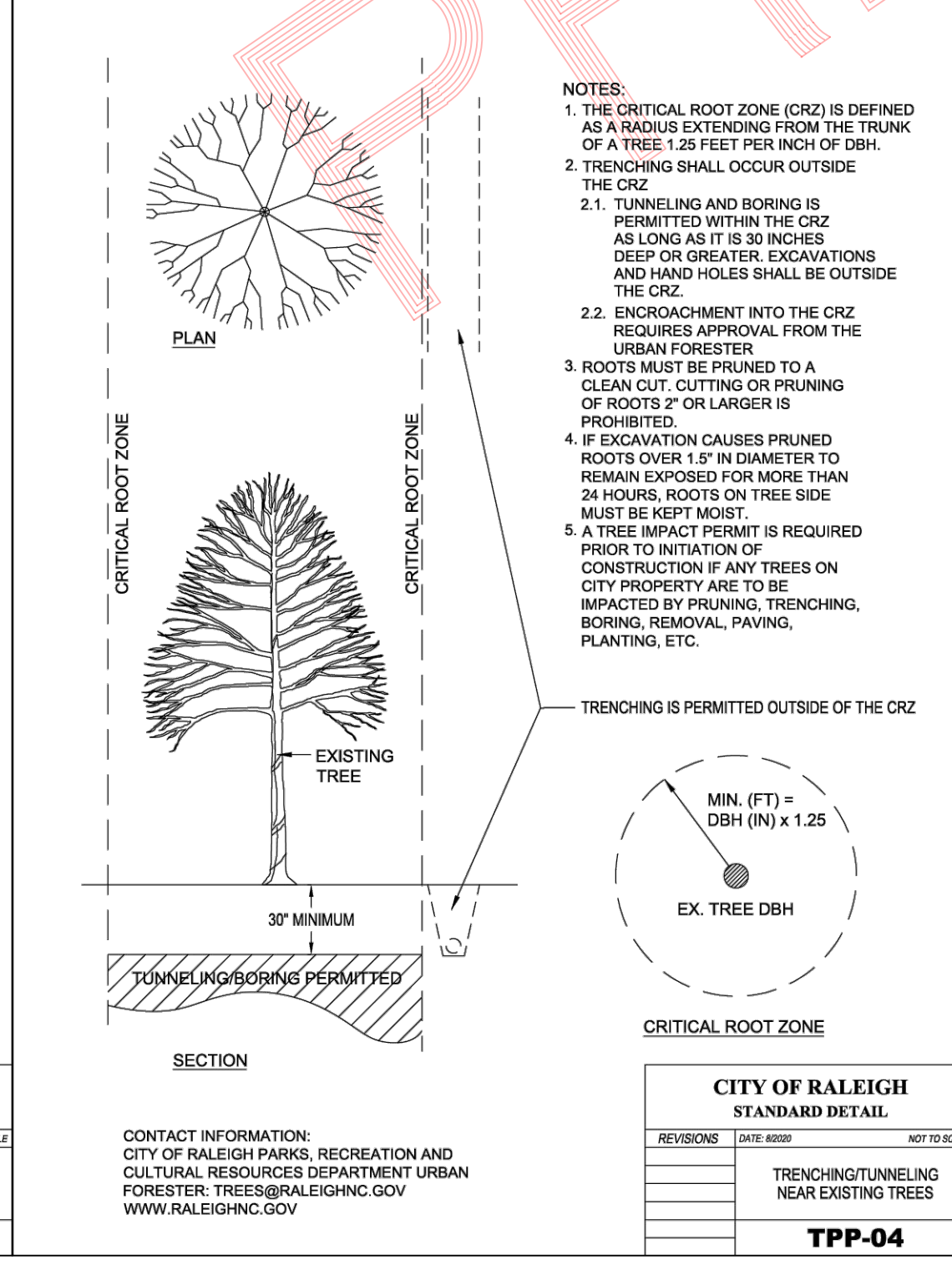
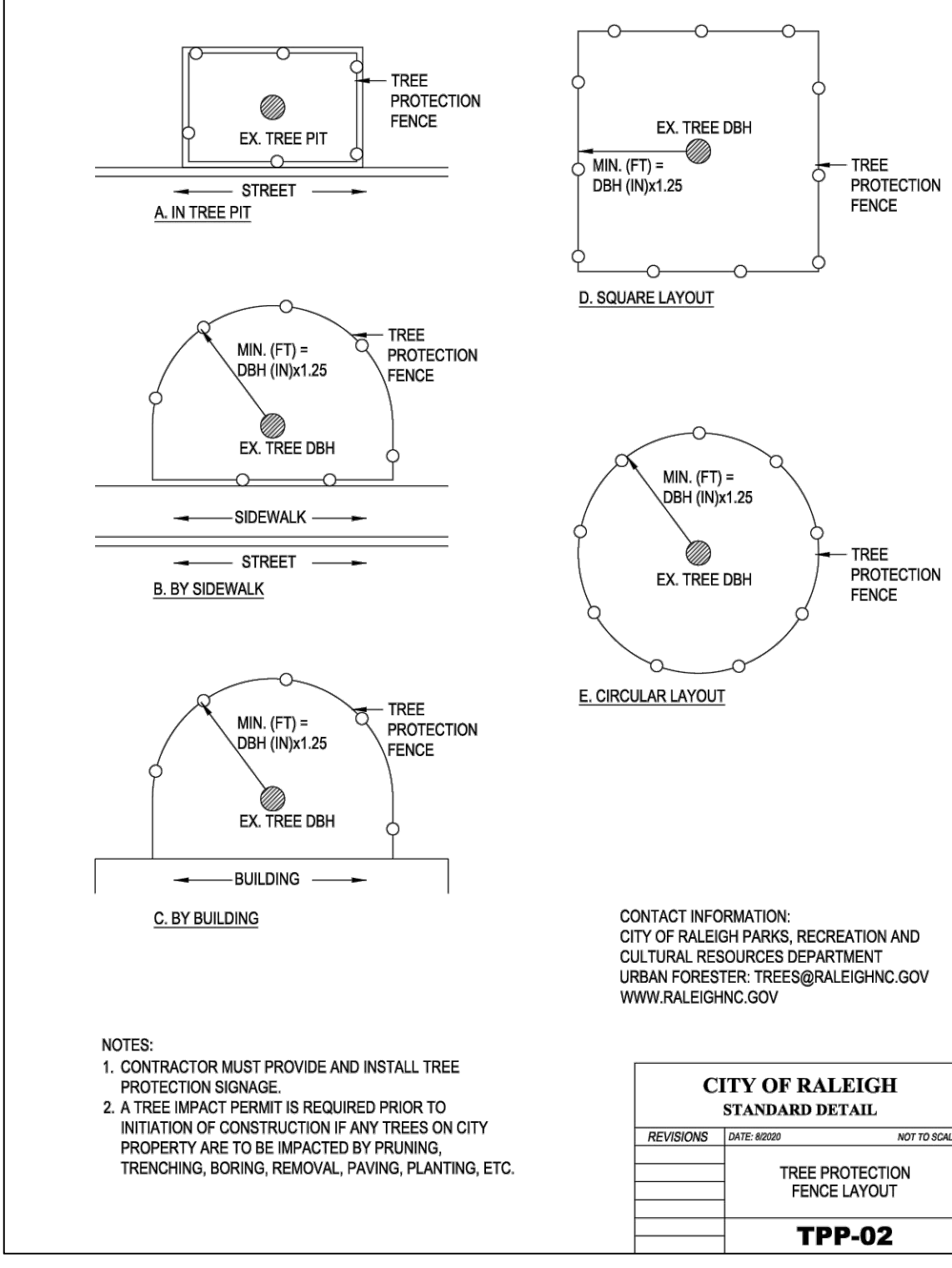
**Precast Box Culverts & Crown-Span**

Feet Span x Rise	Sq. Ft. Area	Inches Equiv. Round Dia	Inches Equiv. Dble Dia
3x3	8.9	36	28
4x3	11.7	45	35
4x4	15.7	53	41
4x5	19.7	59	45
4x6	23.7	64	50
4x7	27.7	69	53
4x8	31.7	73	57
4x9	35.7	78	60
4x10	39.7	81	63
4x11	43.7	85	65
4x12	47.7	88	68
5x2	9.5	40	31
5x3	14.5	50	39

**Full Flow Hydraulic Data - Box Culverts**

**CONTROL BOX (CB) DETAIL (NTS)**

**CONTROL BOX (CB) DETAIL (NTS)**



**HARRIS ENGINEERING**  
312 Leacroft Way  
Morrisville, N.C. 27560  
(919) 996-9455

Date Started: 1 November 2017  
Scale: NTS  
Drawn By: SMK, EDS  
Printed Date: 29 September 2024  
File: C:\Users\Bryant.farms\OneDrive\Documents\Projects\Wedgewood\Wedgewood D-Fire.dwg

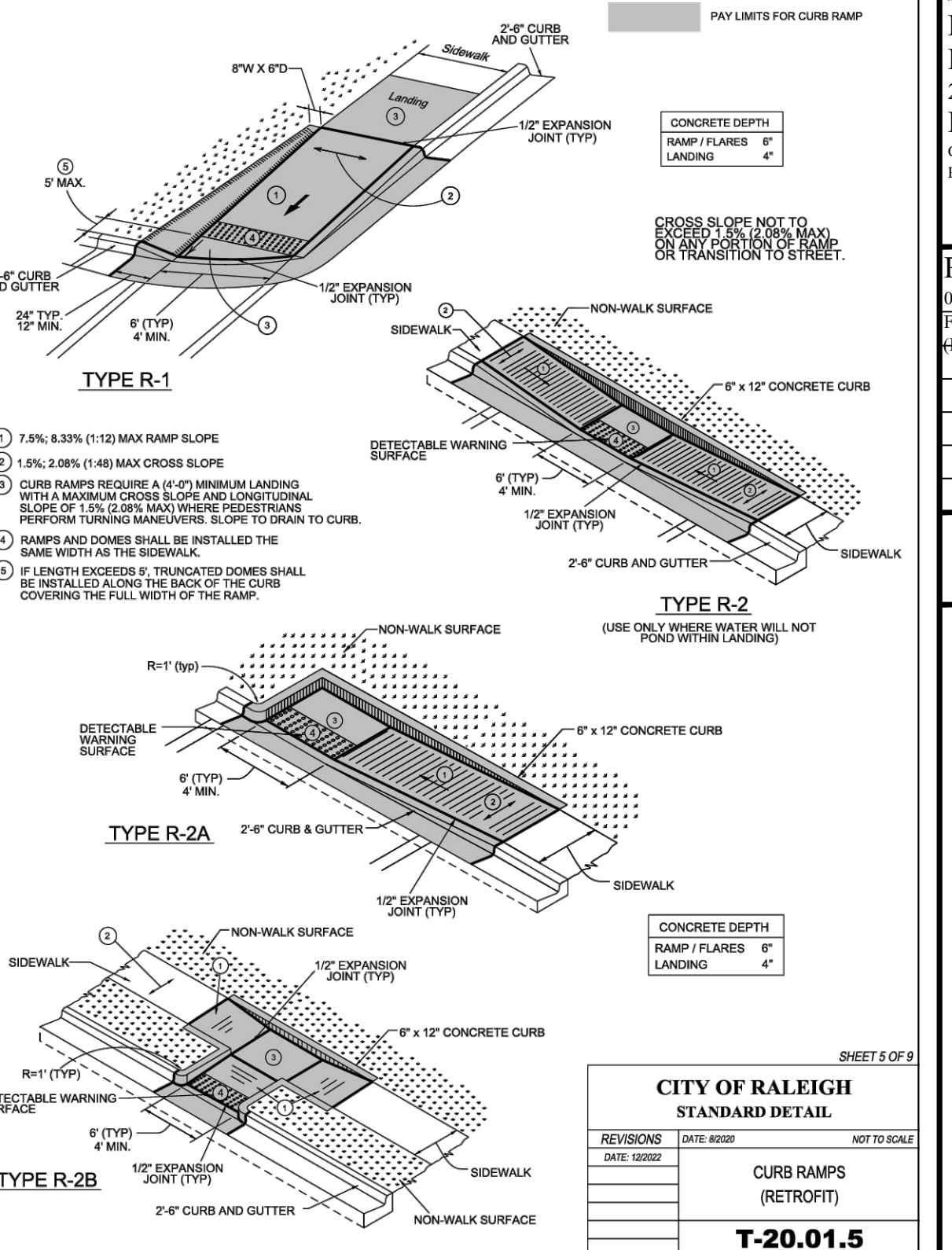
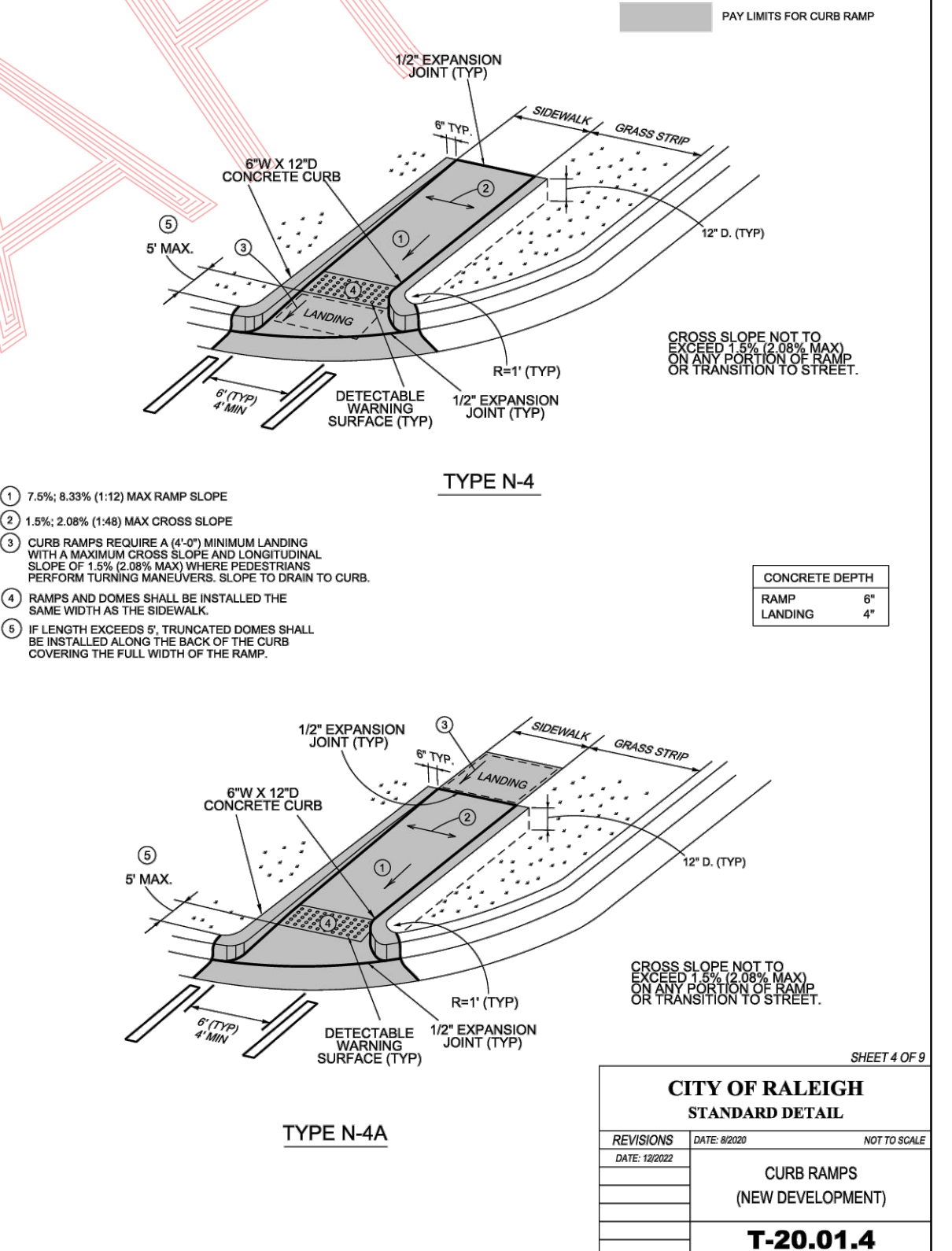
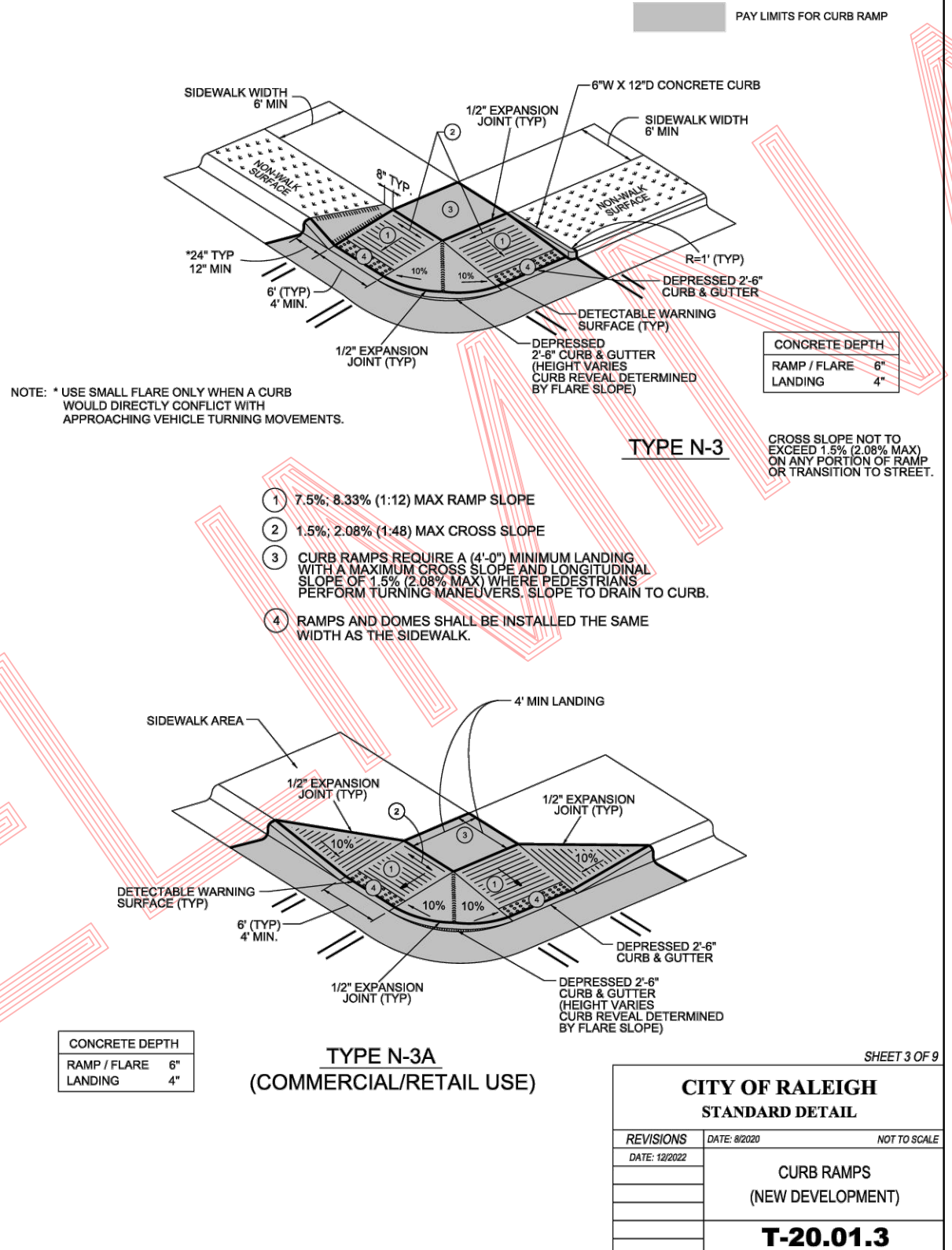
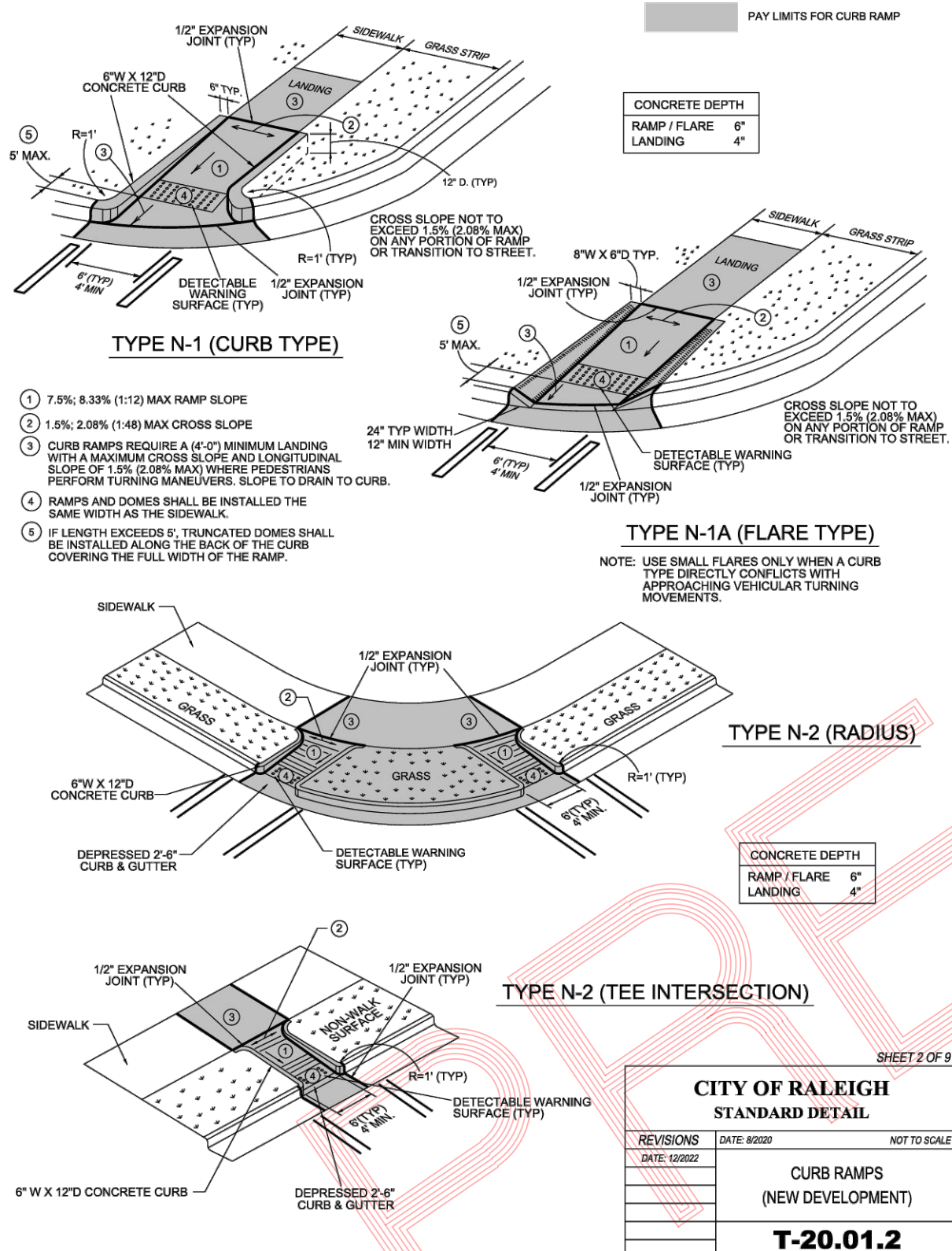
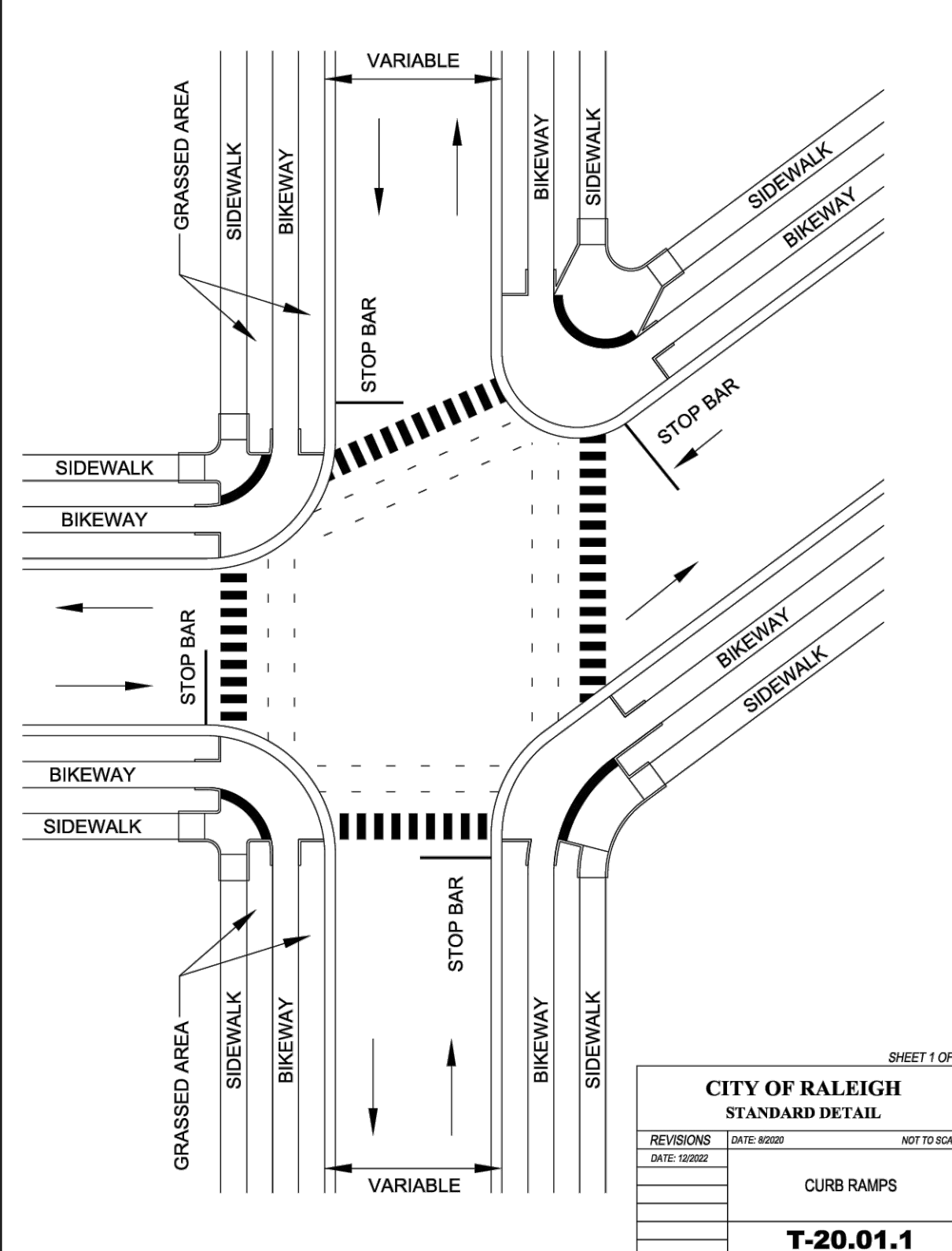
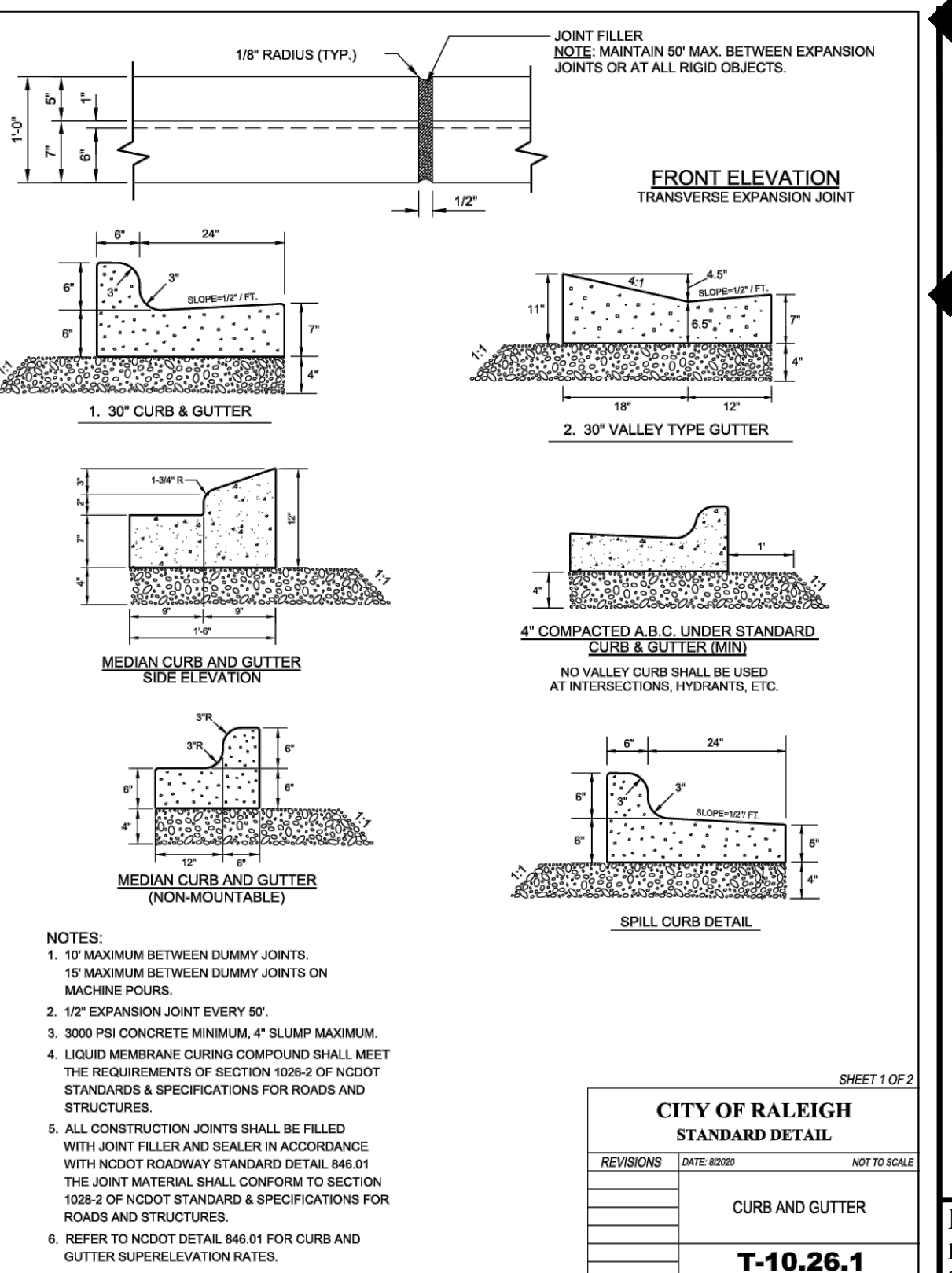
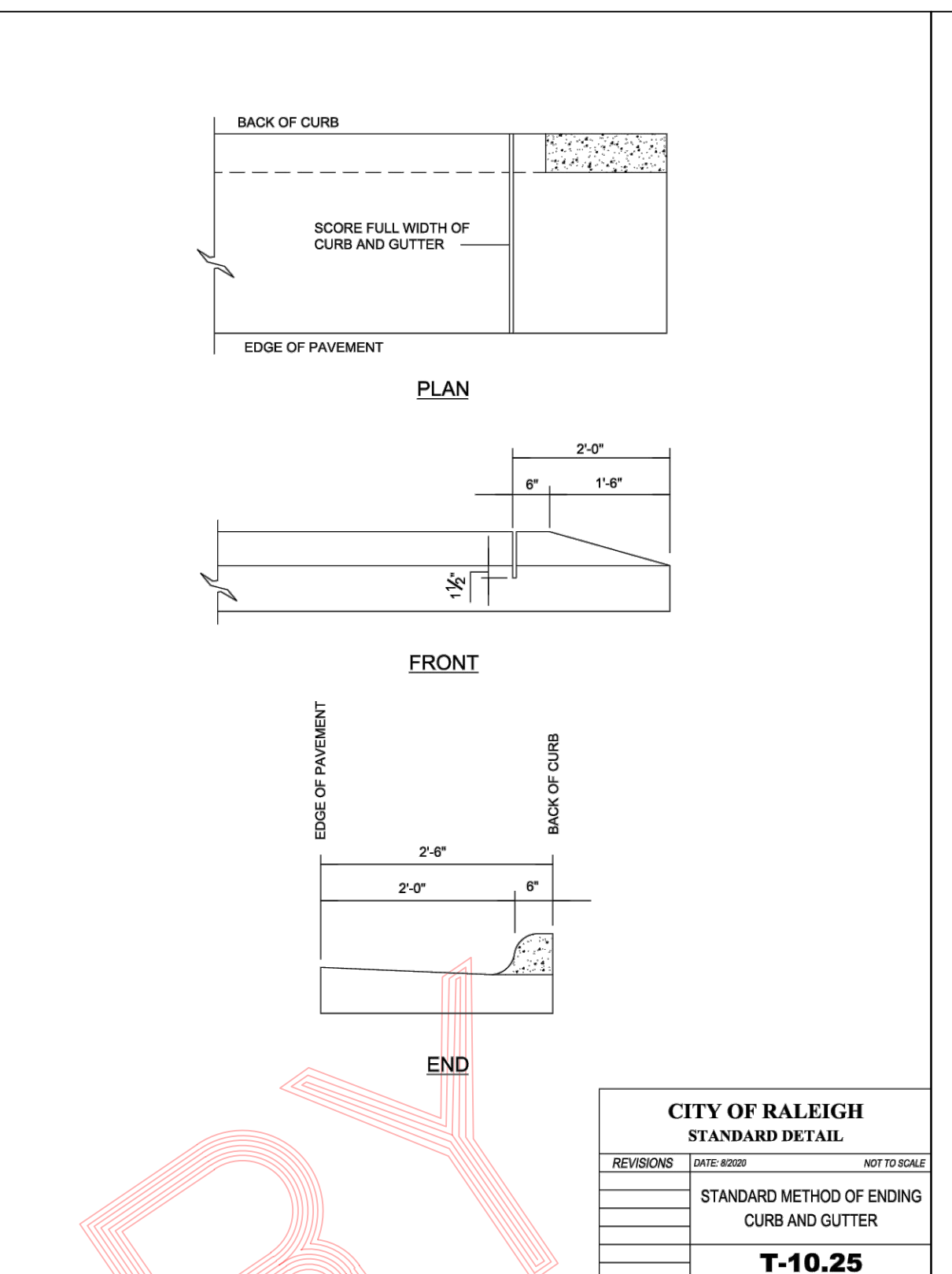
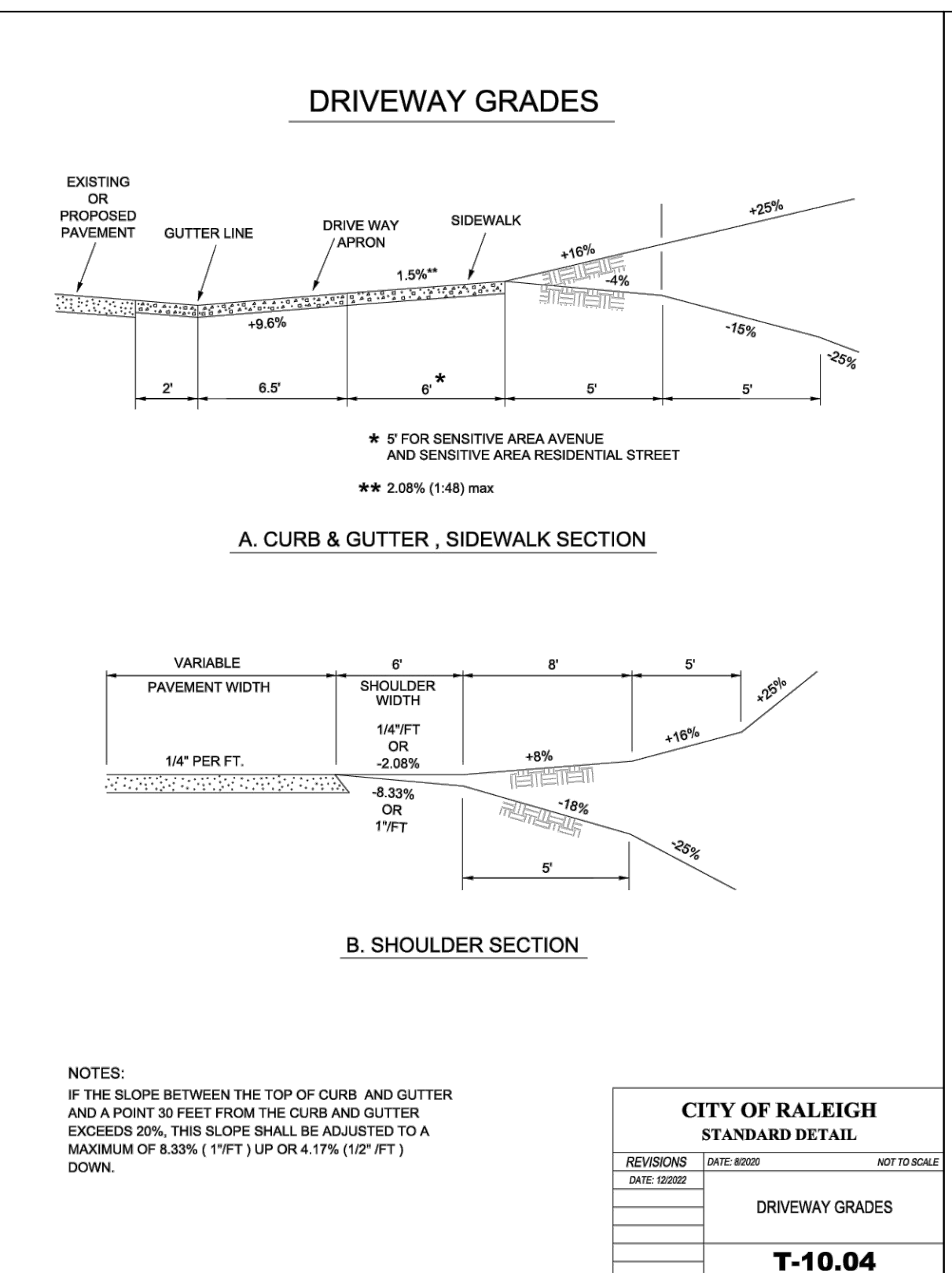
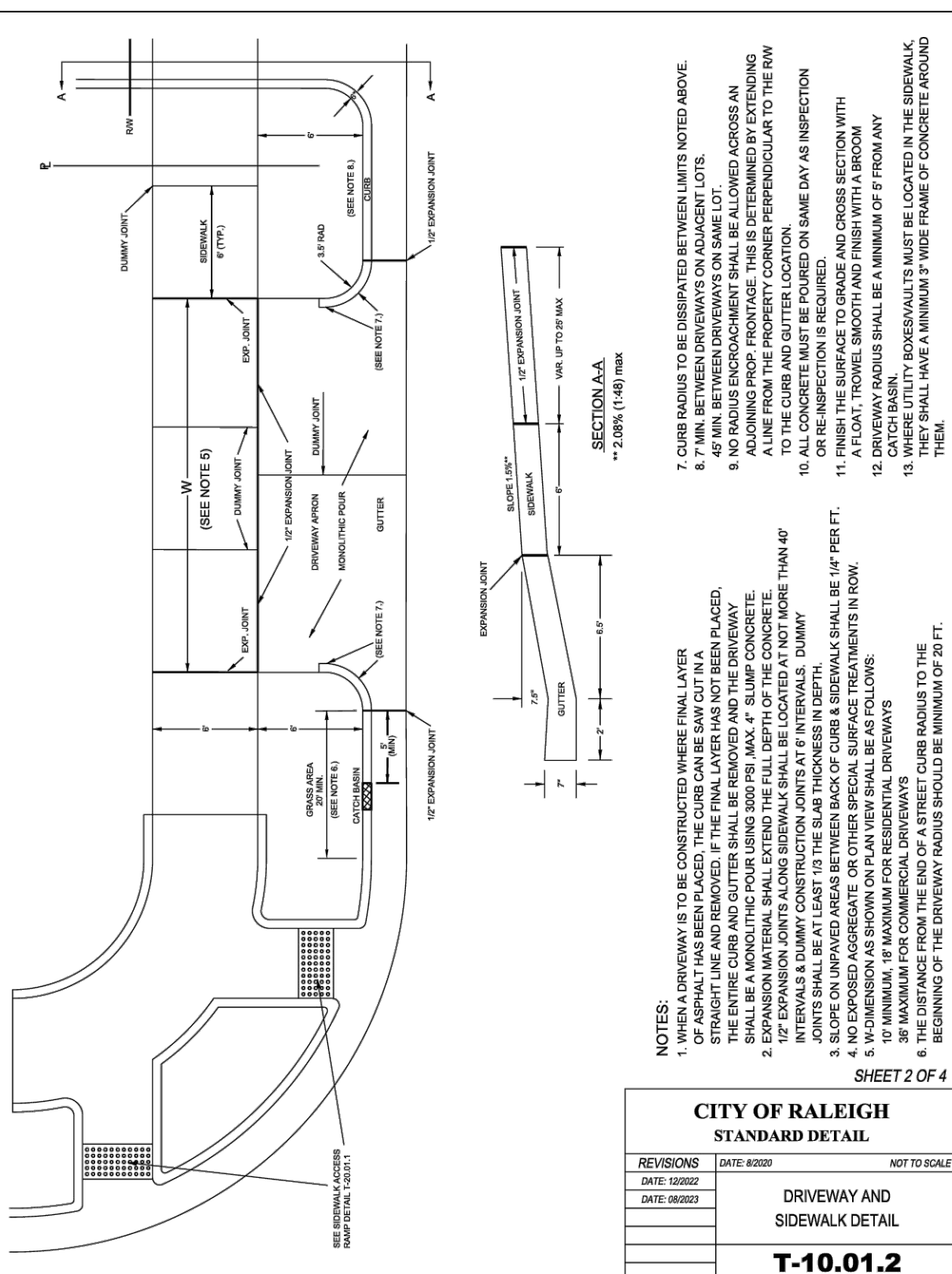
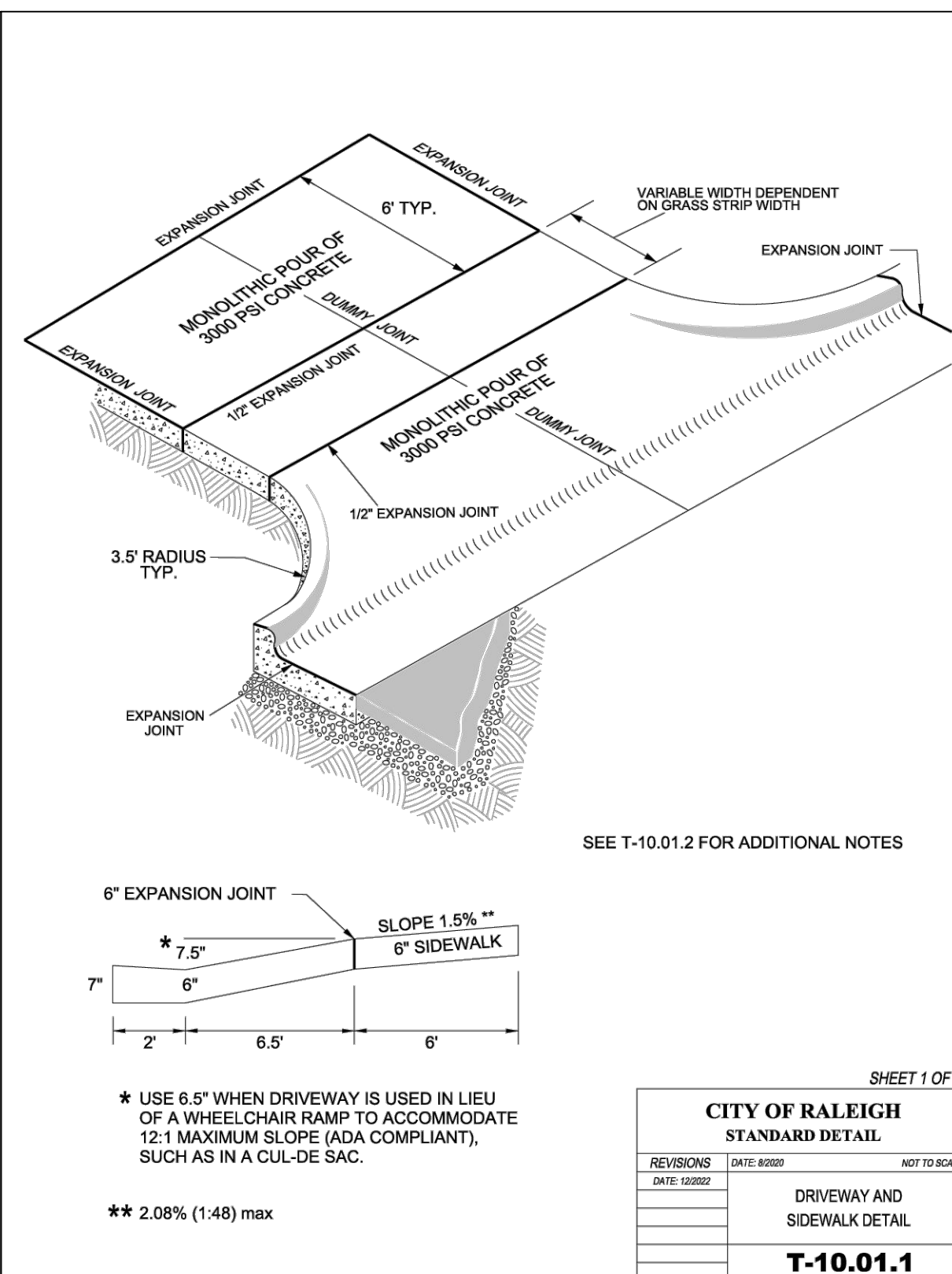
Revision: 03-07-2018 / 12 JUN 2019 (BAH) / 13 FEB 2020 (CGJ) / 19 AUG 2021 (BAH) / 23 OCT 2021 (BET)

Preliminary Subdivision Plan

Storm Water Details For Spring Arces Subdivision

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**HARRIS ENGINEERING**  
 312 Leacroft Way  
 Morrisville, N.C. 27560  
 (919) 996-9455

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Date Started: 1 November 2017  
 Scale: NTS  
 Drawn By: SMK, EDS  
 Printed Date: 29 September 2024  
 File: C:\Users\Bryan.Harris\OneDrive\Documents\H Projects\Wedgewood\Wedgewood D-File.dwg

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Revision:  
 03-07-2018 / 12 JUN 2019 (BAH) / 13  
 FEB 2020 (CGG) / 19 AUG 2021  
 (BAH) / 23 OCT 2021 (BET)

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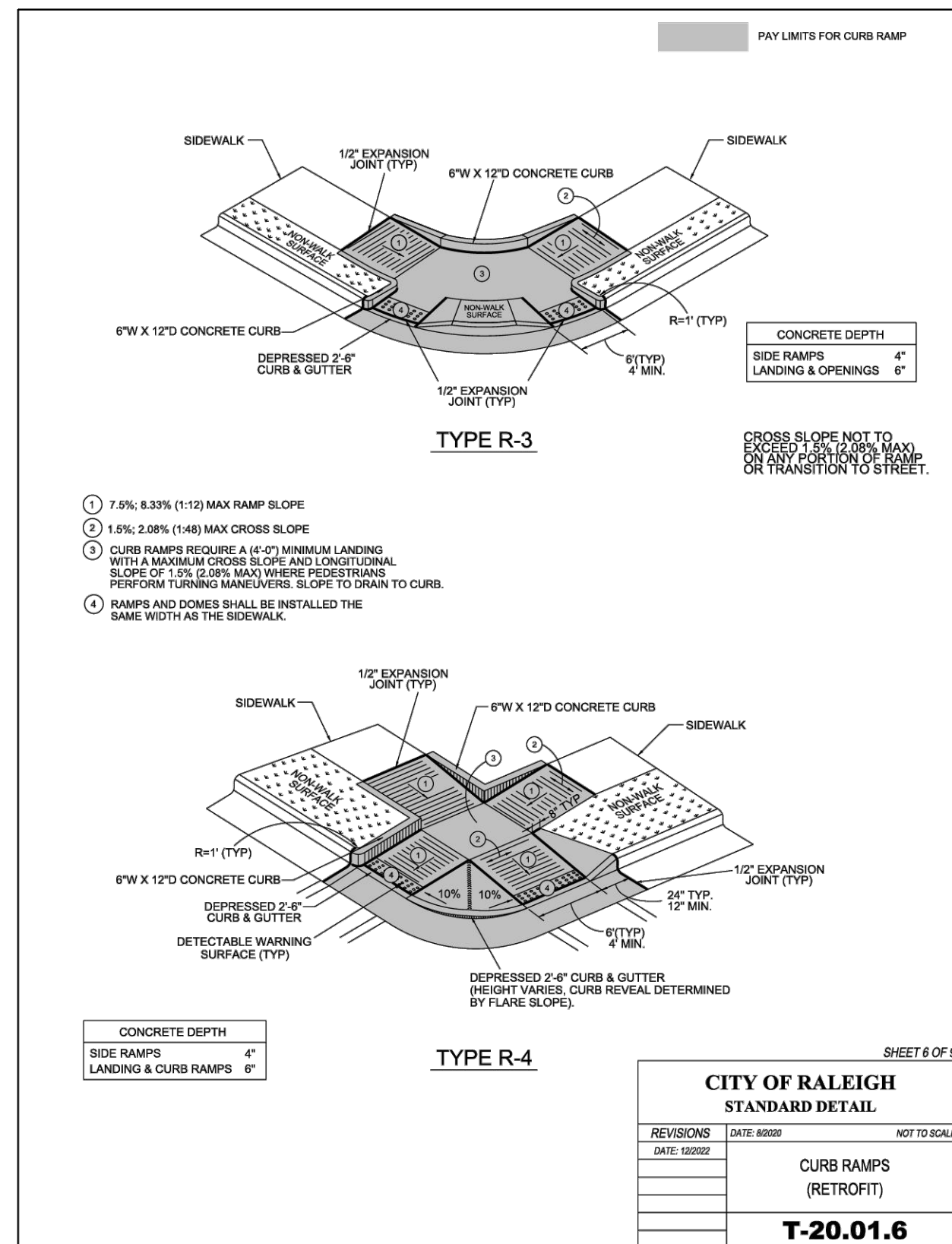
Preliminary Subdivision Plan

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For  
**Transportation Details-1**  
**Spring Arces Subdivision**

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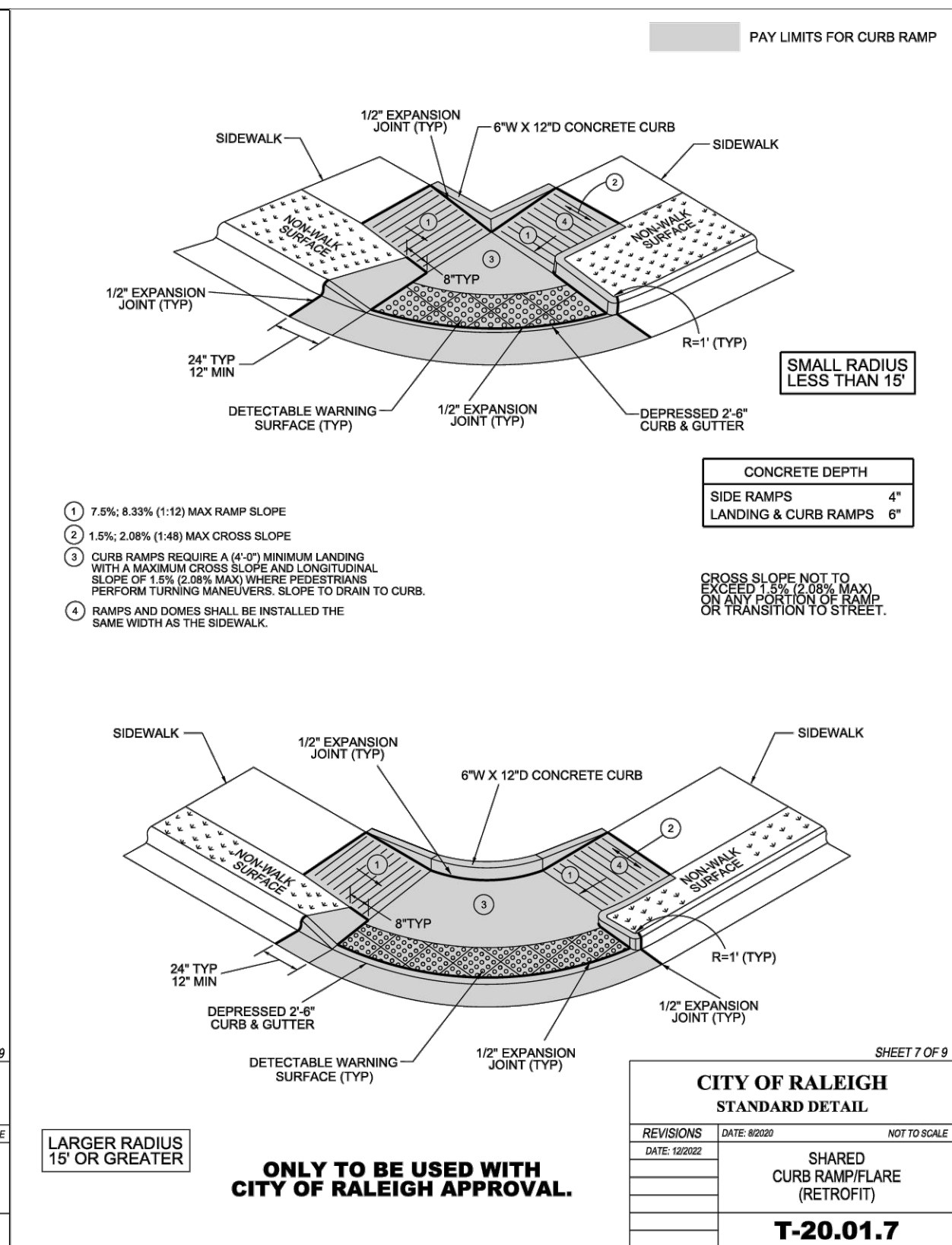
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**CITY OF RALEIGH STANDARD DETAIL**

REVISIONS	DATE	BY	NOT TO SCALE

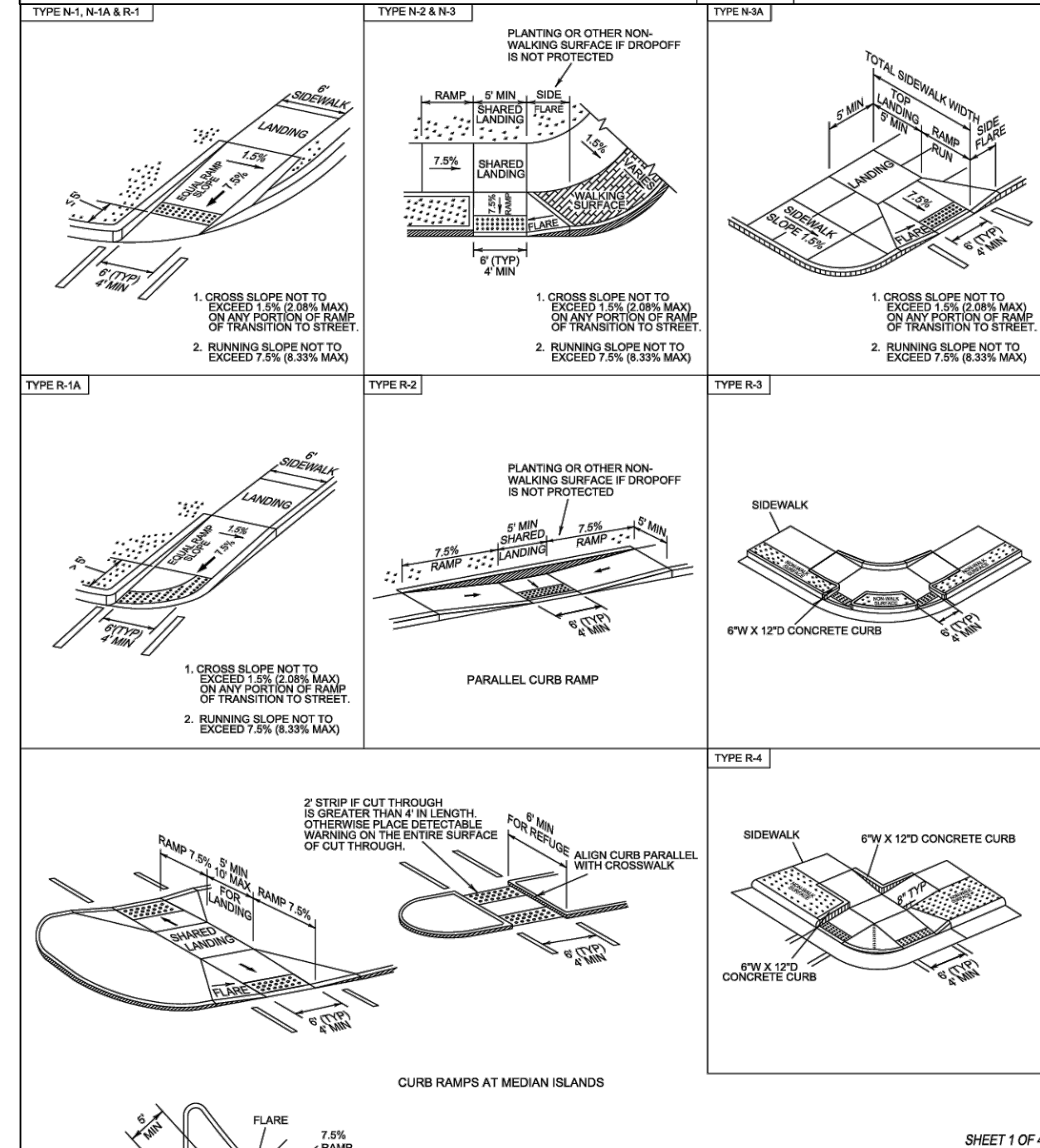
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**CITY OF RALEIGH STANDARD DETAIL**

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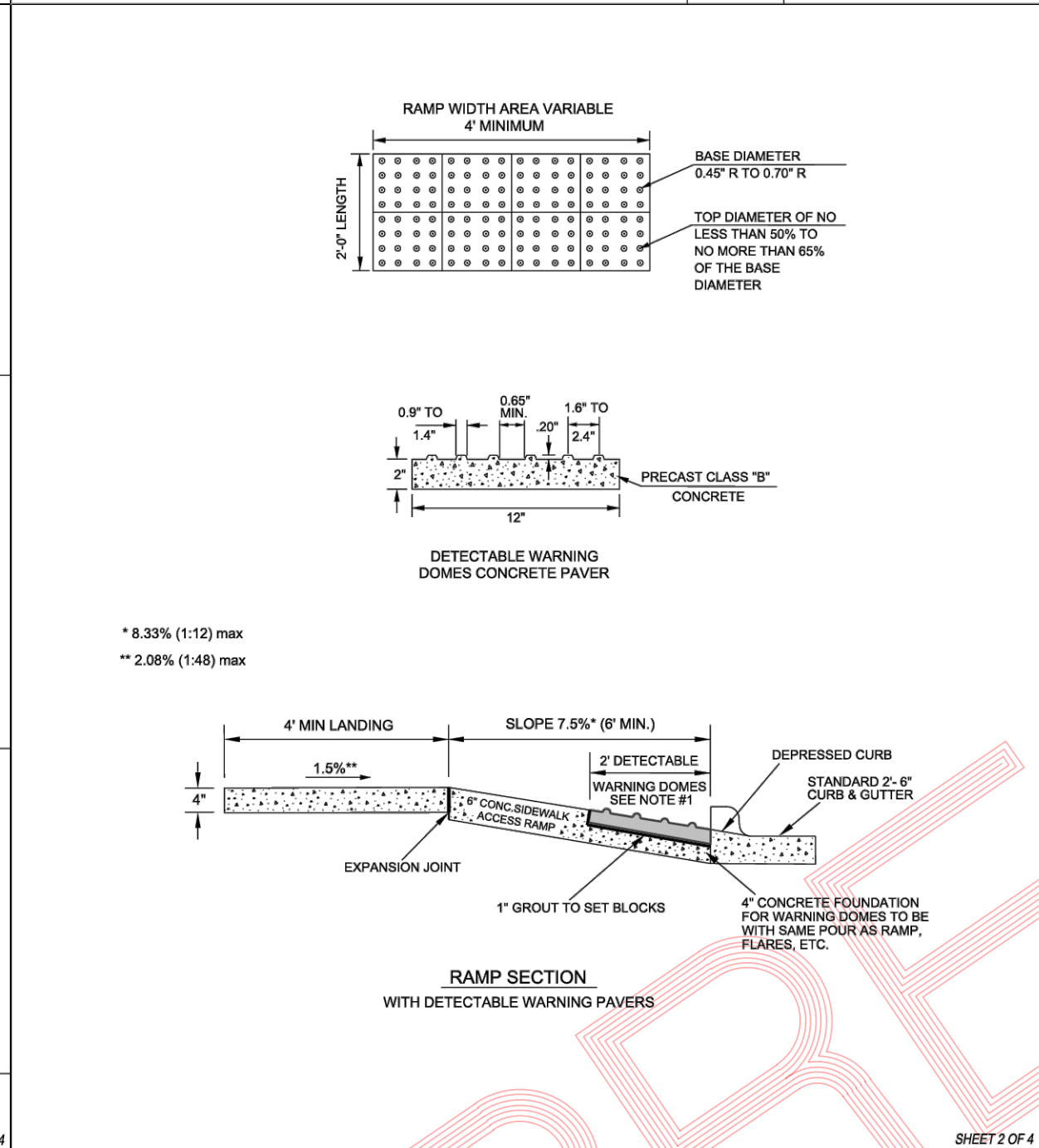
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**CITY OF RALEIGH STANDARD DETAIL**

REVISIONS	DATE	BY	NOT TO SCALE

**T-20.04.1**



**CITY OF RALEIGH STANDARD DETAIL**

REVISIONS	DATE	BY	NOT TO SCALE

**T-20.04.2**

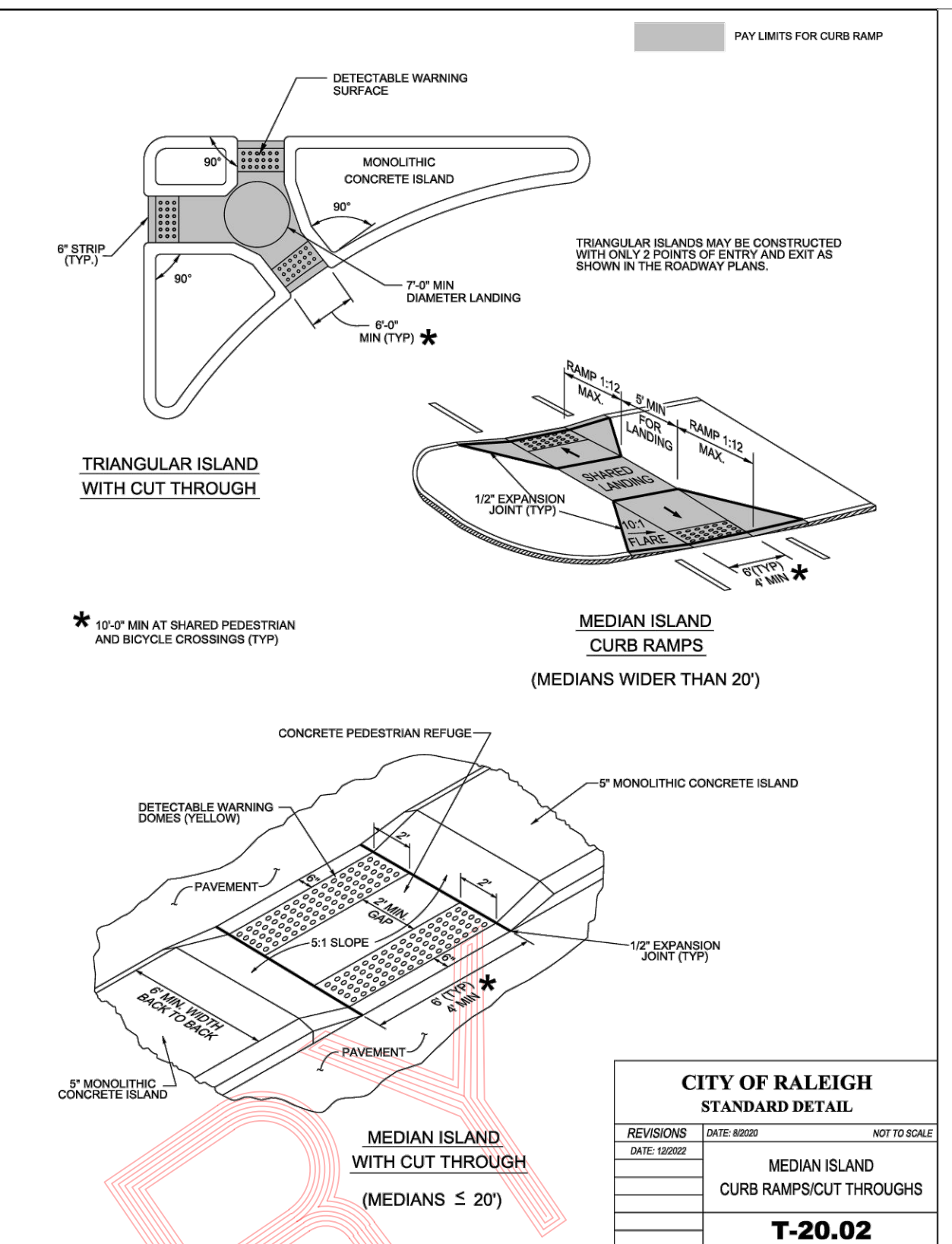
**CITY OF RALEIGH CURB RAMPS GENERAL NOTES**

- CITY OF RALEIGH STANDARD CURB RAMPS HAVE BEEN DEVELOPED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA) AND PUBLIC RIGHT OF WAY ACCESS GUIDELINES (PROWAG).
- CURB RAMPS SHALL BE PROVIDED AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. SIDEWALK ACCESS RAMPS SHALL BE LOCATED AS INDICATED IN THE DETAIL. HOWEVER, THE LOCATION MAY BE ADJUSTED IN COORDINATION WITH THE CITY OF RALEIGH WHERE EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC. AFFECT PLACEMENT.
- DOUBLE WHEELCHAIR RAMPS ARE TO BE INSTALLED AT ALL PUBLIC STREET INTERSECTIONS WHERE SIDEWALK IS REQUIRED.
- THE WALKING SURFACE SHALL BE SLIP RESISTANT. THE COLOR FOR THE DETECTABLE WARNING AREA SHALL BE YELLOW FOR CONTRAST.
- NO SLOPE ON THE SIDEWALK ACCESS RAMP SHALL EXCEED 1" (1:12) IN RELATIONSHIP TO THE GRADE OF THE STREET.
- IN NO CASE SHALL THE WIDTH OF THE SIDEWALK ACCESS RAMP BE LESS THAN 48" ALL RAMPS SHALL BE INSTALLED THE SAME WIDTH AS THE SIDEWALK.
- USE CLASS A (3000 PSI) CONCRETE WITH A SIDEWALK FINISH IN ORDER TO OBTAIN A ROUGH NONSKID SURFACE.
- A 1/2" EXPANSION JOINT INSTALLED FULL DEPTH WILL BE REQUIRED WHERE THE CONCRETE SIDEWALK ACCESS RAMP JOINS THE CURB AND ALSO WHERE NEW CONCRETE ABUTS EXISTING CONCRETE.
- CURB RAMPS SHOULD BE PLACED PARALLEL TO THE DIRECTION OF TRAVEL.

**CITY OF RALEIGH STANDARD DETAIL**

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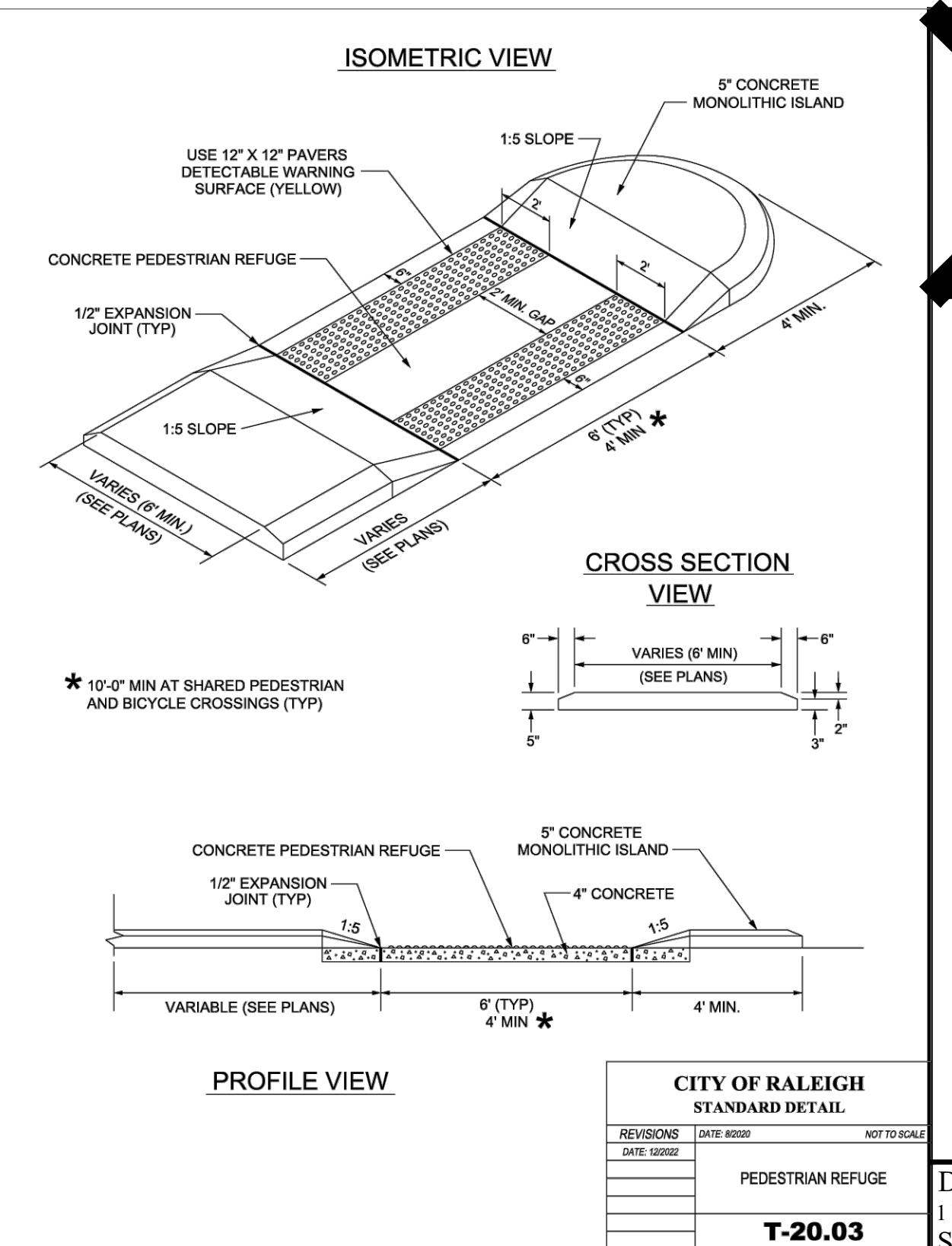
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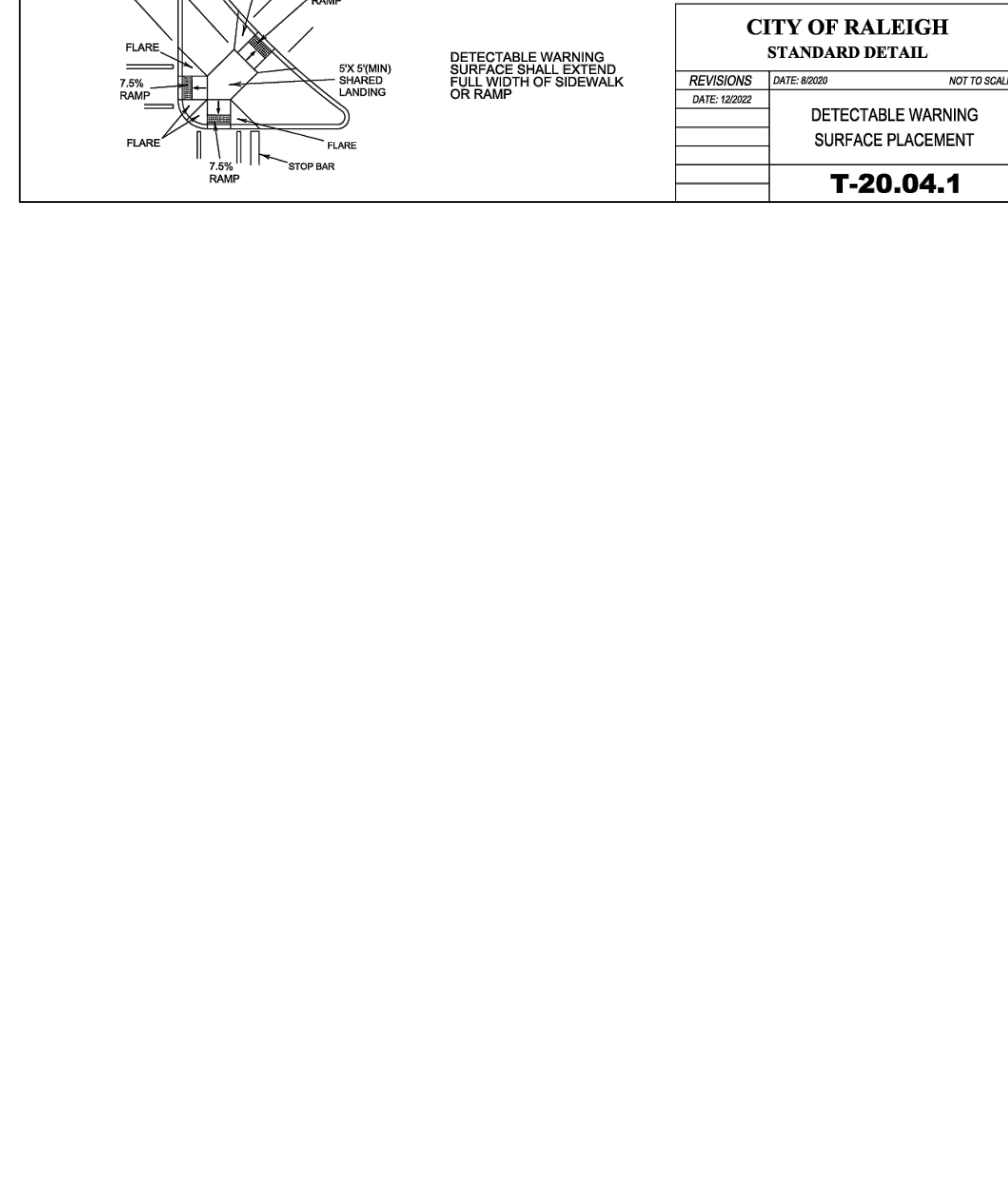
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**CITY OF RALEIGH STANDARD DETAIL**

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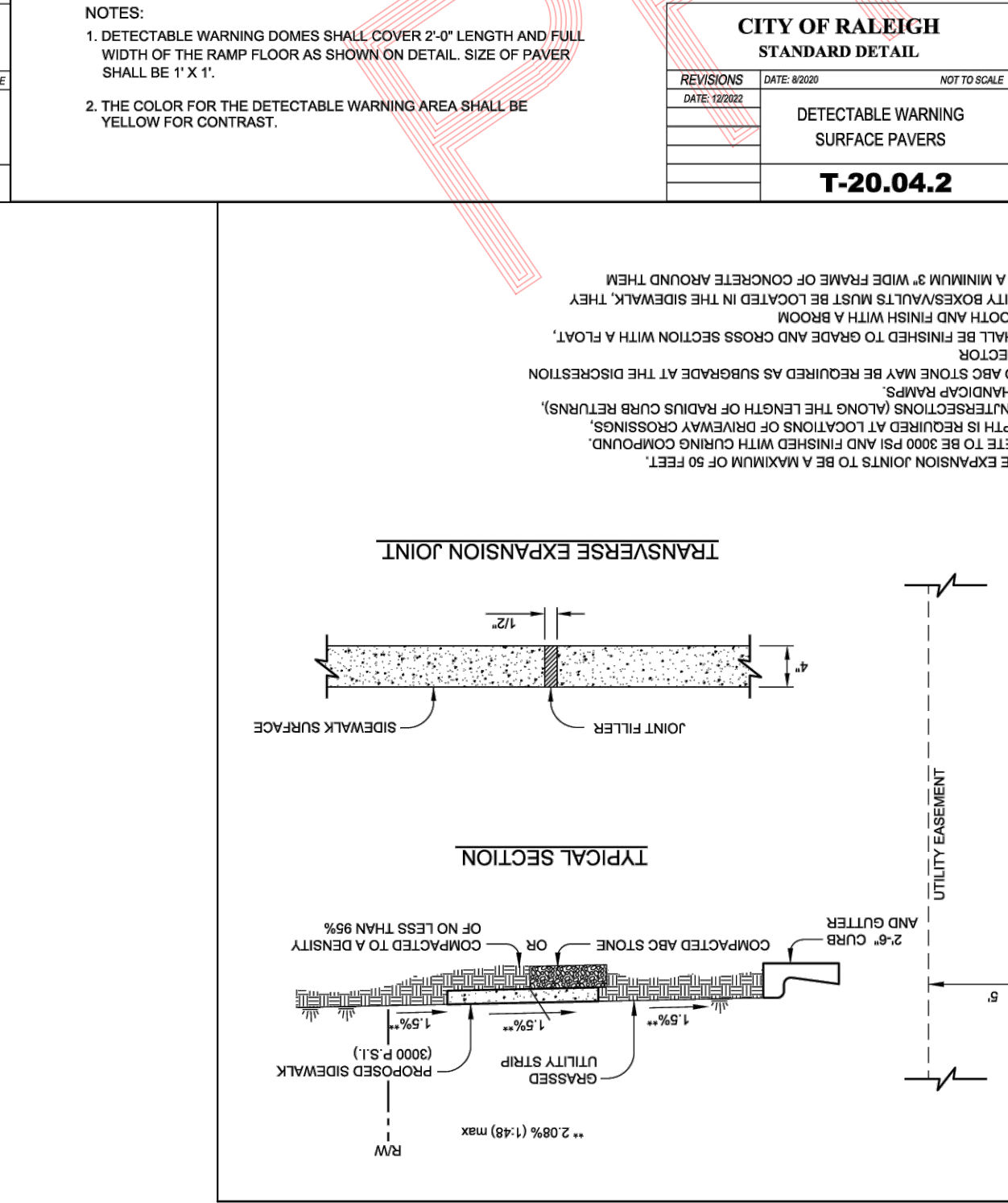
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**CITY OF RALEIGH STANDARD DETAIL**

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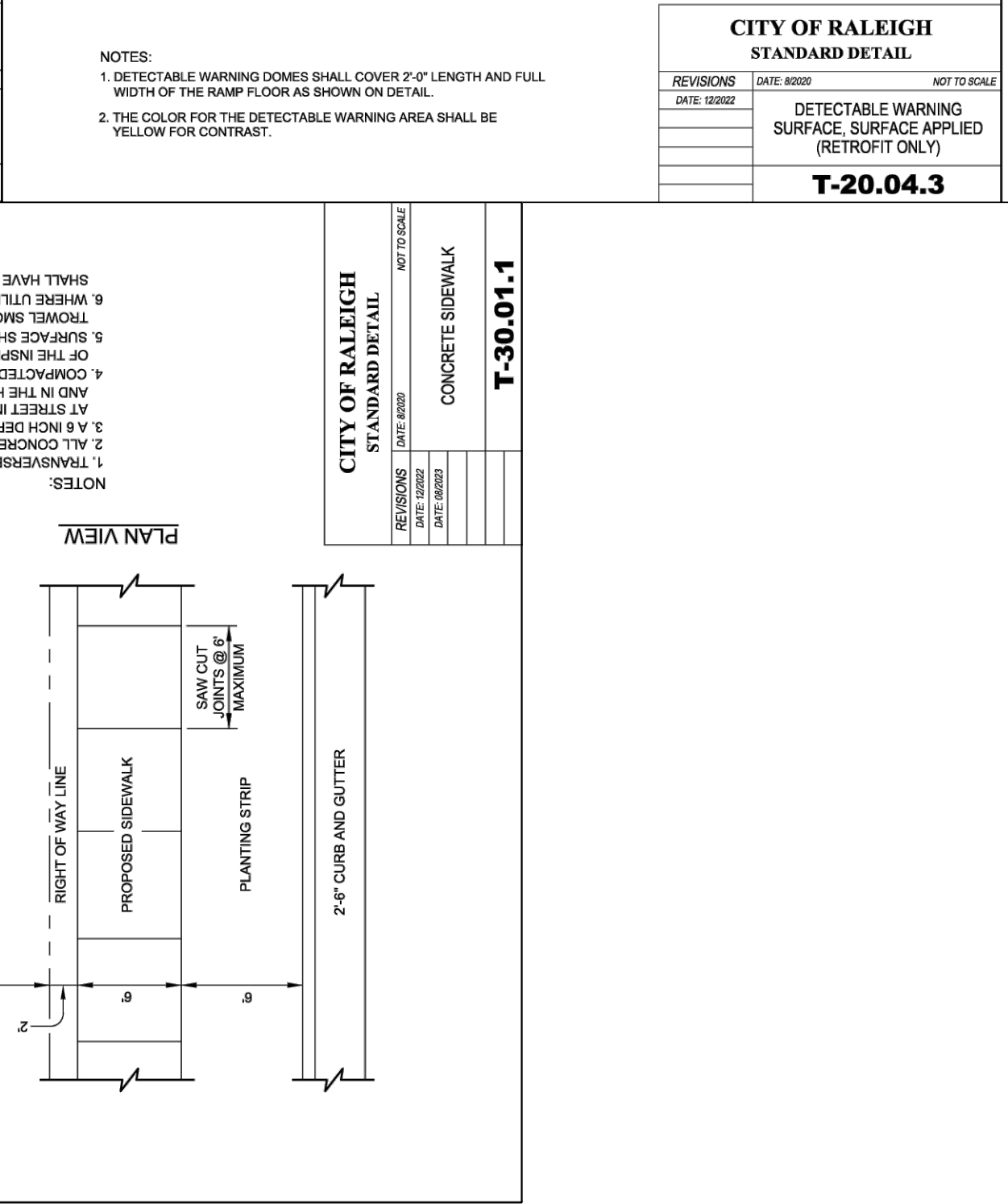
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**CITY OF RALEIGH STANDARD DETAIL**

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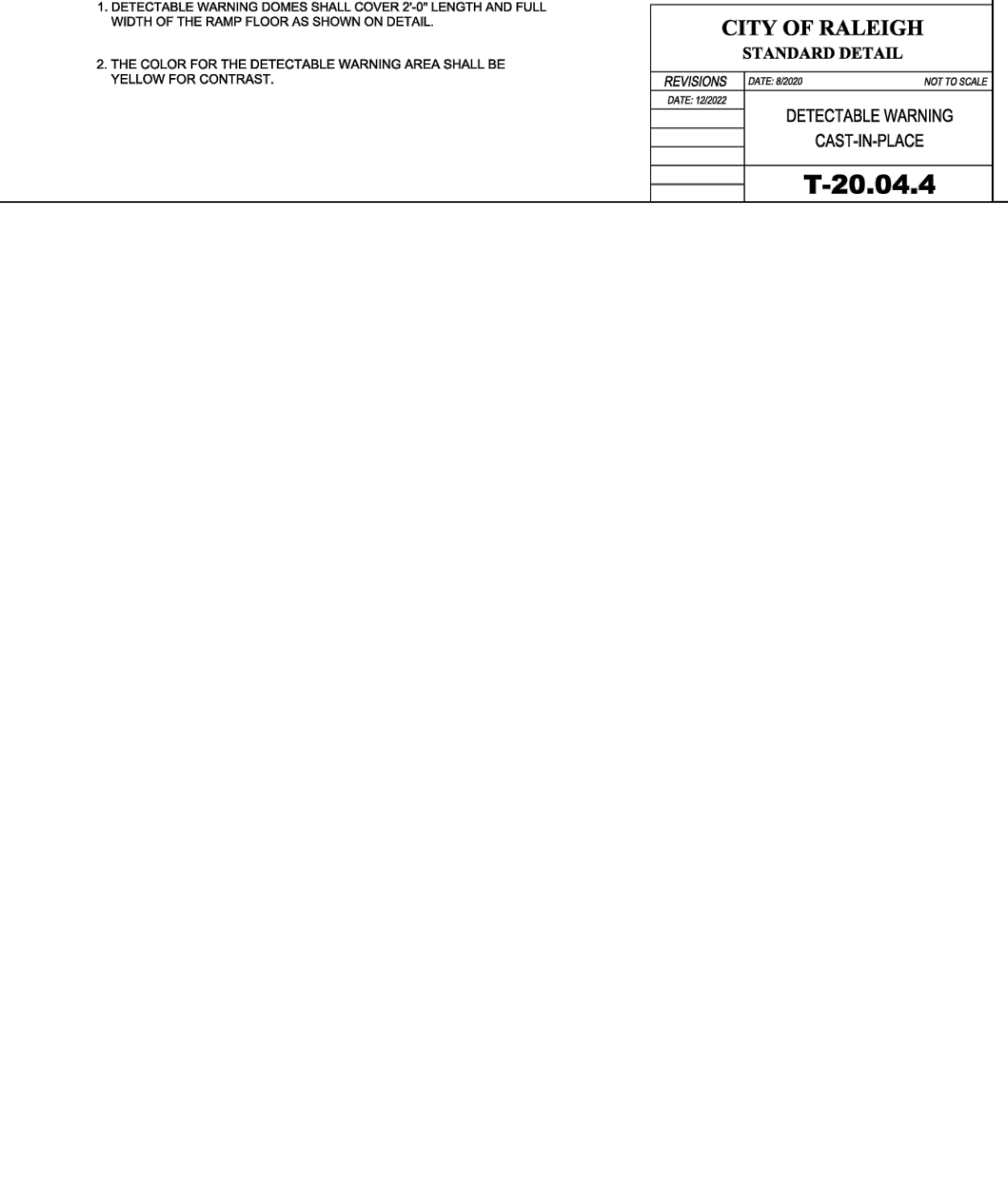
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**CITY OF RALEIGH STANDARD DETAIL**

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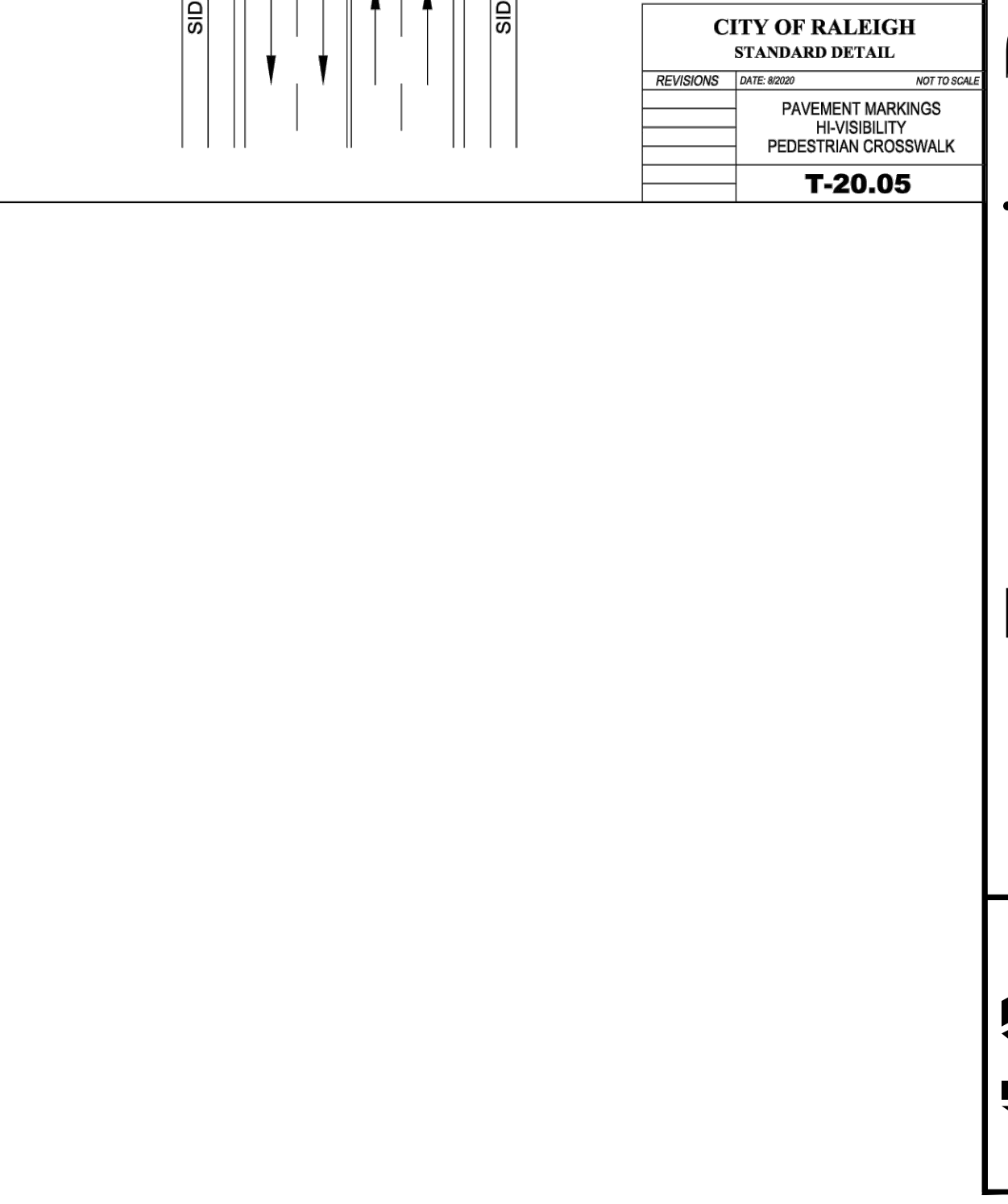
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**CITY OF RALEIGH STANDARD DETAIL**

REVISIONS	DATE	BY	NOT TO SCALE

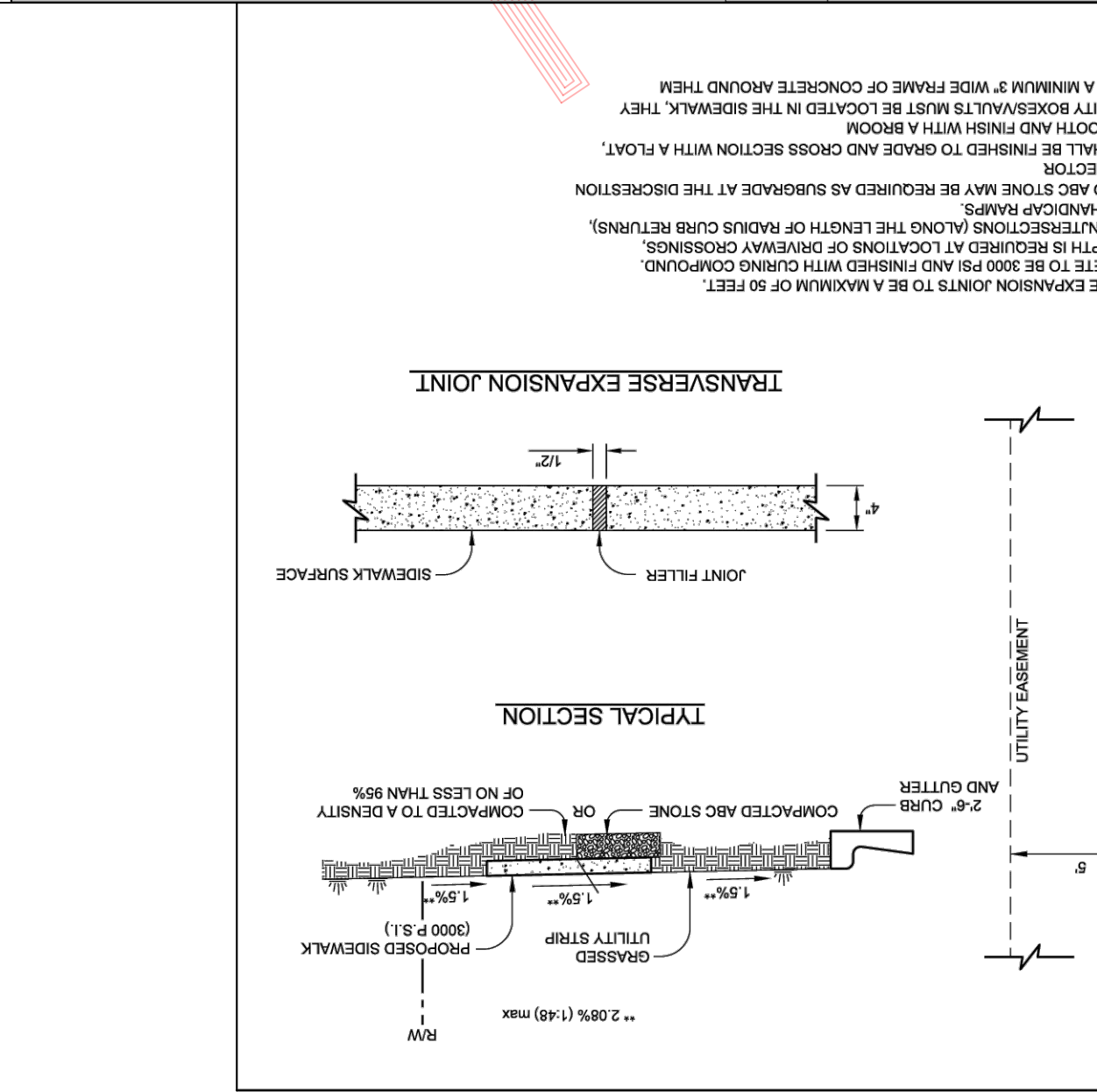
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**CITY OF RALEIGH STANDARD DETAIL**

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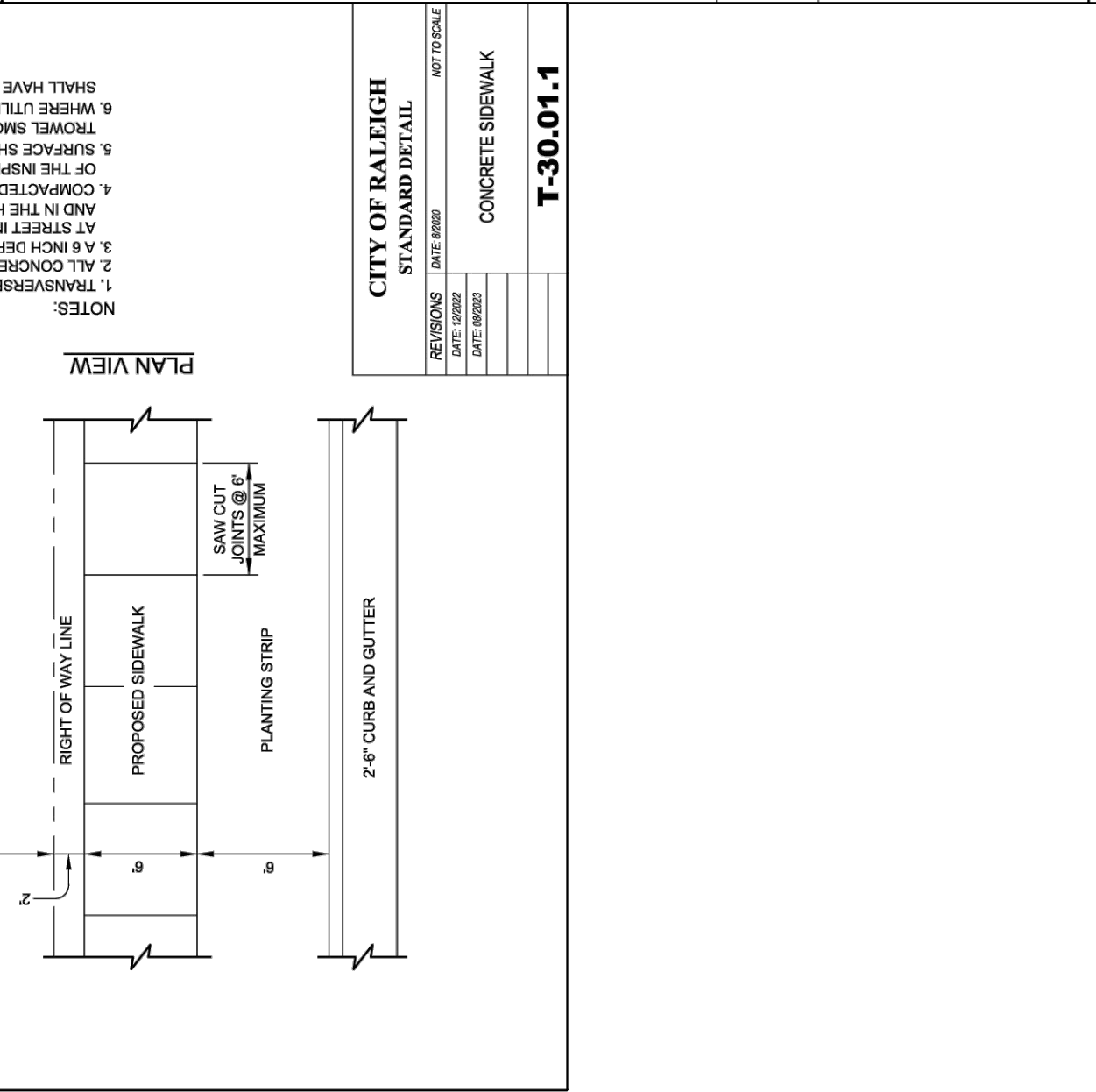
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**CITY OF RALEIGH STANDARD DETAIL**

REVISIONS	DATE	BY	NOT TO SCALE

**T-30.01.1**



**CITY OF RALEIGH STANDARD DETAIL**

REVISIONS	DATE	BY	NOT TO SCALE

**T-30.01.1**

**HARRIS ENGINEERING**  
 312 Leacrot Way  
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Date Started: 1 November 2017  
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Preliminary Subdivision Plan

Transportation Details 2  
 For  
 Spring Arces Subdivision

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