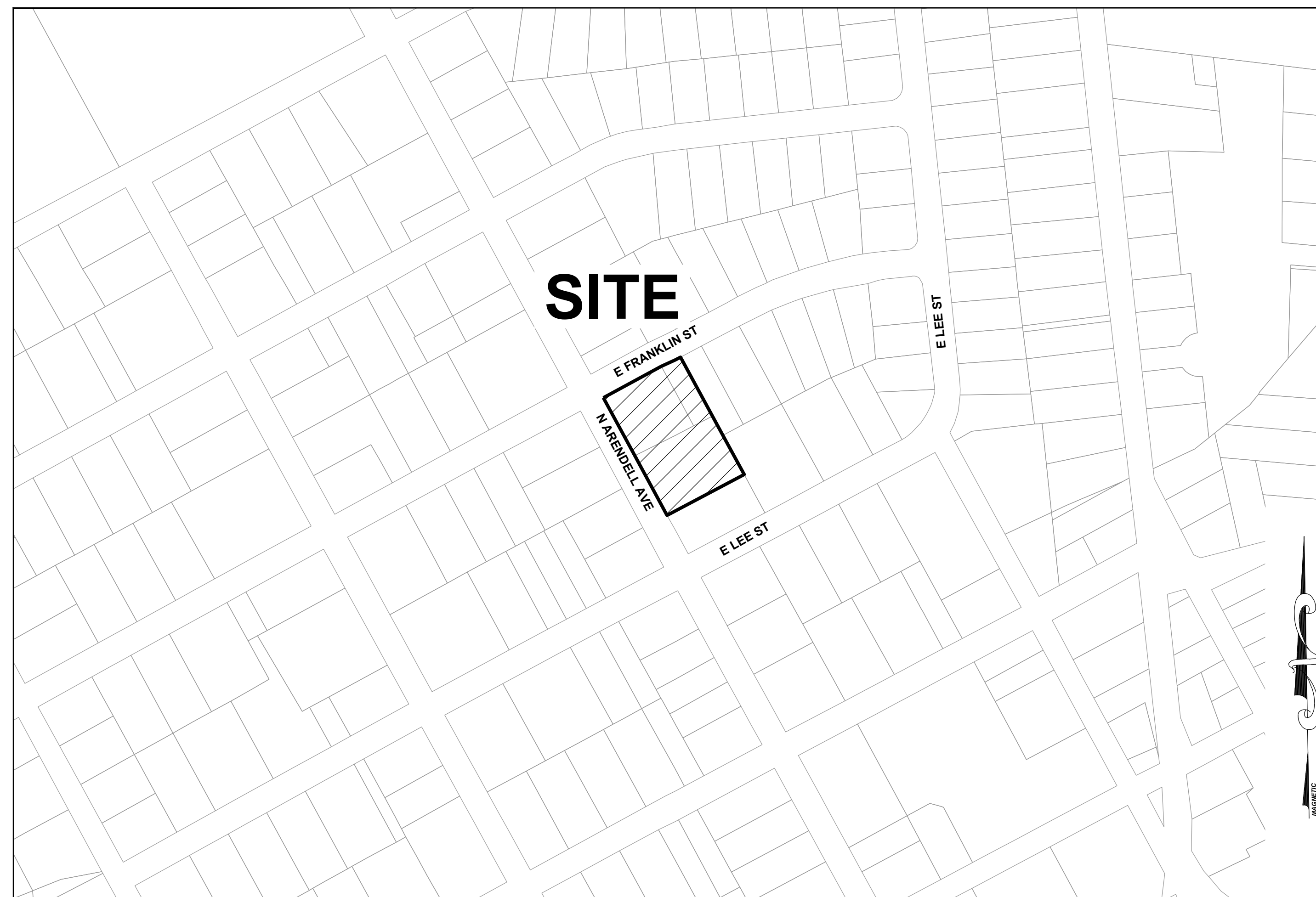


ARENDELL AVE

SITE PLAN SET

SITE INFORMATION:	
LOCATION:	706 N ARENDELL AVE, ZEBULON
COUNTY:	WAKE
PARENT PIN:	2705274220 & 2705275069 & 2705275233
DB/PG:	012055/ 00567
ZONING:	DTP
ACREAGE:	1.38 ACRES
CURRENT LAND USE MAP CLASSIFICATION:	TN
PROPOSED LAND USE MAP CLASSIFICATION:	TN
LAND CLASS:	RESIDENTIAL
MINIMUM BUILDING SETBACKS:	
FRONT YARD:	15'
SIDE YARD:	0' OR 5'
REAR YARD:	15'
CORNER YARD:	5'
RIGHT OF WAY & OTHER AREAS:	
RIGHT OF WAY DEDICATION:	0.00 AC
NATURAL WETLANDS:	0.00 AC
STREAM BUFFER:	0.00 AC
LOT ACREAGE:	
TOTAL NUMBER PROPOSED LOTS:	12
MAXIMUM ALLOWED DENSITY:	10 DU/AC
PROPOSED DENSITY:	8.70 DU/AC
MINIMUM ALLOWED LOT SIZE:	3,000 SF
MINIMUM PROPOSED LOT SIZE:	3,000 SF
MAXIMUM PROPOSED LOT SIZE:	3,200 SF
AVERAGE PROPOSED LOT SIZE:	3,000 SF
MINIMUM ALLOWABLE LOT WIDTH:	30'
MINIMUM PROPOSED LOT WIDTH:	30'
MAXIMUM ALLOWED LOT COVERAGE:	85%
MAXIMUM PROPOSED LOT COVERAGE:	52%
OPEN SPACE BREAKDOWN:	
PROPERTY BOUNDARY:	60,200 SF (1.38 AC)
REQUIRED URBAN SET-ASIDE:	6020 SF (10% OF TOTAL SITE)
PROVIDED URBAN SET-ASIDE:	15,898 SF (0.36 AC)
IMPERVIOUS AREAS:	
ROADWAYS / PARKING:	5,098 SF (0.12 AC)
SIDEWALKS:	1,263 SF (0.03 AC)
LOTS (1,230 SF/LOT):	14,760 SF (0.34 AC)
TOTAL ON-SITE IMPERVIOUS AREA:	21,121 SF (0.48 AC)
TOTAL ON-SITE IMPERVIOUS PERCENT:	35.08%
UTILITY DEMANDS:	
SEWAGE USAGE:	4,320 GDP 3 BED X 120 GPD/BED X 12 UNITS
WATER USAGE:	4,320 GDP 3 BED X 120 GPD/BED X 12 UNITS
DISTURBED AREA:	
TOTAL DISTURBED AREA:	47,936(1.10 AC)
STREET TYPE SUMMARY:	
16' ROW SECTION:	353 LF



VICINITY MAP

1" = 200'

SHEET INDEX	
C-0.0	COVER SHEET
C-1.0	EXISTING CONDITIONS PLAN
C-2.0	SITE PLAN
C-3.0	UTILITY PLAN
C-4.0	GRADING PLAN
C-5.0	STORMWATER PLAN
C-6.0	EROSION CONTROL PLAN
C-7.0	LANDSCAPING PLAN
D-1.0	BUILDING ELEVATIONS
D-2.0	WATER DETAILS
D-2.1	SITE DETAILS
D-2.2	SITE DETAILS

PUBLIC UTILITY IMPROVEMENTS:	
WATER MAIN:	205 SF
SEWER MAIN:	76 SF
WATER STUBS:	5
SEWER STUBS:	1

PERMIT INFORMATION:	
(PERMITTING AUTHORITY, PERMIT IDENTIFIERS, & EFFECTIVE DATES)	
TOWN OF ZEBULON PLANNING AND ZONING:	
- EFFECTIVE DATE OF ZONING APPROVAL:	XX-XX-2020
- EFFECTIVE DATE OF MASTER PLAN APPROVAL:	XX-XX-2020
WAKE COUNTY ENVIRONMENTAL:	
-LAND DISTURBANCE PERMIT:	SEC-XXXXXX-XXXX
-STORMWATER PERMIT:	SWF-XXXXXX-XXXX
NCDWR/CITY OF ZEBULON PUBLIC UTILITIES:	
-WATER EXTENSION PERMIT:	W-XXXX
-SEWER EXTENSION PERMIT:	S-XXXX
NC DEPT. OF TRANSPORTATION:	
-DRIVEWAY PERMIT:	D51-XXX-XXXX (DATE: XX-XX-XXXX)
-2 PARTY ENCROACHMENT AGMT:	E51-XXX-XXXX (DATE: XX-XX-XXXX)
-3 PARTY ENCROACHMENT AGMT:	E51-XXX-XXXX (DATE: XX-XX-XXXX)
U.S. ARMY CORPS OF ENGINEERS:	
-IMPACT PERMIT:	NOT REQUIRED
NC DIVISION OF WATER QUALITY:	
-BUFFER IMPACT AUTHORIZATION:	NOT REQUIRED

SURVEYOR:	
TAYLOR LAND CONSULTANTS 5448 APEX PEAKWAY APEX, NC 27502 919-801-1104 (O) 919-337-7998 (M) CONTACT: JEREMY TAYLOR, PL jeremy@taylorlc.com	
CIVIL ENGINEERING:	
STRONG ROCK ENGINEERING GROUP, PLLC PO BOX 55992 RALEIGH, NC 27624 COMPANY LICENSE # P-2166 CONTACT: RHONDA BREWINGTON, PE 910-527-9209 (P) rhonda@strongrockgroup.com	

SITE PERMITTING APPROVAL:	
WATER AND SEWER PERMITS (IF APPLICABLE)	
THE TOWN OF ZEBULON 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. TOWN OF ZEBULON PUBLIC UTILITIES DEPARTMENT PERMIT # _____	
TOWN OF ZEBULON 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. TOWN OF ZEBULON PUBLIC UTILITIES DEPARTMENT PERMIT # _____	
TOWN OF ZEBULON - PLANS AUTHORIZED FOR CONSTRUCTION	
ELECTRONIC APPROVAL: THIS APPROVAL IS BEING ISSUED ELECTRONICALLY. THIS APPROVAL IS VALID ONLY UPON THE SIGNATURE OF A TOWN OF ZEBULON REVIEW OFFICER BELOW. THE CITY WILL RETAIN A COPY OF THE APPROVED PLANS. ANY WORK AUTHORIZED BY THIS APPROVAL MUST PROCEED IN ACCORDANCE WITH THE PLANS KEPT ON FILE WITH THE CITY. THIS ELECTRONIC APPROVAL MAY NOT BE EDITED ONCE ISSUED. ANY MODIFICATION TO THIS APPROVAL ONCE ISSUED WILL INVALIDATE THIS APPROVAL.	
TOWN OF ZEBULON DEVELOPMENT APPROVAL	
TOWN OF ZEBULON WATER REVIEW OFFICER	



STRONG ROCK ENGINEERING GROUP STRONG ROCK ENGINEERING GROUP, PLLC / COMPANY LICENSE # P-2166 6801 FALLS OF NEUSE RD. SUITE 108 RALEIGH, NC 27615 JOSH@STRONGROCKENGINEERING.COM	1	TRC REVIEW RESPONSES	09-30-2021	REVISIONS	DATE
	PRELIMINARY				
STRONG ROCK PROJECT	NOT FOR CONSTRUCTION	SCALE AS SHOWN	DESIGNED BY	RLB	SRG
			DRAWN BY	JWL	JWL
TRUE- ZEBULON-ARENDELL TOWN OF ZEBULON, WAKE COUNTY, NORTH CAROLINA CONSTRUCTION PLANS	COVER SHEET		DRAWING SHEET		
C-0.0		01 OF 12			

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL BE PER TOWN OF ZEBULON STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, RIGHT-OF-WAYS AND UTILITIES, PUBLIC OR PRIVATE BEFORE WORKING IN THESE AREAS.
3. PROTECT ALL PROPERTY MONUMENTS AND PINS. MONUMENTS AND PINS THAT WILL BE DISTURBED DURING CONSTRUCTION SHALL BE REFERENCED AND REPLACED BY A LICENSED LAND SURVEYOR AT THE COST OF THE CONTRACTOR.
4. CONTRACTOR SHALL MAINTAIN THE SITE IN SUCH A MANNER THAT WORKMEN AND THE PUBLIC WILL BE PROTECTED FROM INJURY AND ADJOINING PROPERTY PROTECTED FROM DAMAGE.
5. CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE UPON COMPLETION OF THE PROJECT AND AT LEAST ONCE A WEEK DURING CONSTRUCTION.
6. CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY EXISTING ITEM AID/OR MATERIAL DUE TO CONSTRUCTION OPERATIONS. ALL STREET SURFACES, UTILITY POLES, CULVERTS, DITCHES, CURB AND GUTTER OR OTHER STRUCTURES THAT ME DISTURBED OR DAMAGED IN ANY MANNER AS A RESULT OF CONSTRUCTION SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR IN ACCORDANCE WITH THE APPROPRIATE SPECIFICATIONS.
7. ANY AND ALL QUANTITIES SHOWN OR IMPLIED ON THE PLANS ARE FOR ESTIMATION PURPOSES ONLY.
8. APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFFSITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS.
9. ENTRY SIGNS SHALL BE LOCATED IN A DEDICATED EASEMENT.
10. ANY SPECIALITY STREET SIGNS INCLUDING POSTS SHALL BE SUBMITTED TO THE TOWN OF ZEBULON FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
11. ALL PUBLIC AND PRIVATE EASEMENTS SHALL BE RECORDED AS PART OF THE FINAL PLAT OF THE SUBDIVISION. EASEMENTS BASED OF CENTER OF UTILITY OR PIPE SHALL BE PER AS-BUILT LOCATIONS.
12. AREAS OF PARENT PARCEL THAT ARE NOT SUBDIVIDED TO CREATE SINGLE FAMILY RESIDENTIAL LOTS ARE TO REMAIN AS ONE PARCEL TO BE OWNED AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION OF THE NEIGHBORHOOD.
13. PRIOR TO FINAL PLAT, DEVELOPER SHALL SUBMIT A LIGHTING PLAN TO THE TOWN OF ZEBULON SHOWING LIGHT FIXTURE DETAILS AND PHOTOMETRICS.
14. PRIOR TO FINAL PLAT, DEVELOPER SHALL SUBMIT CUT SHEETS FOR PARK BENCHES, MAIL BOX KIOSK, AND PEDESTRIAN WAYFINDING.

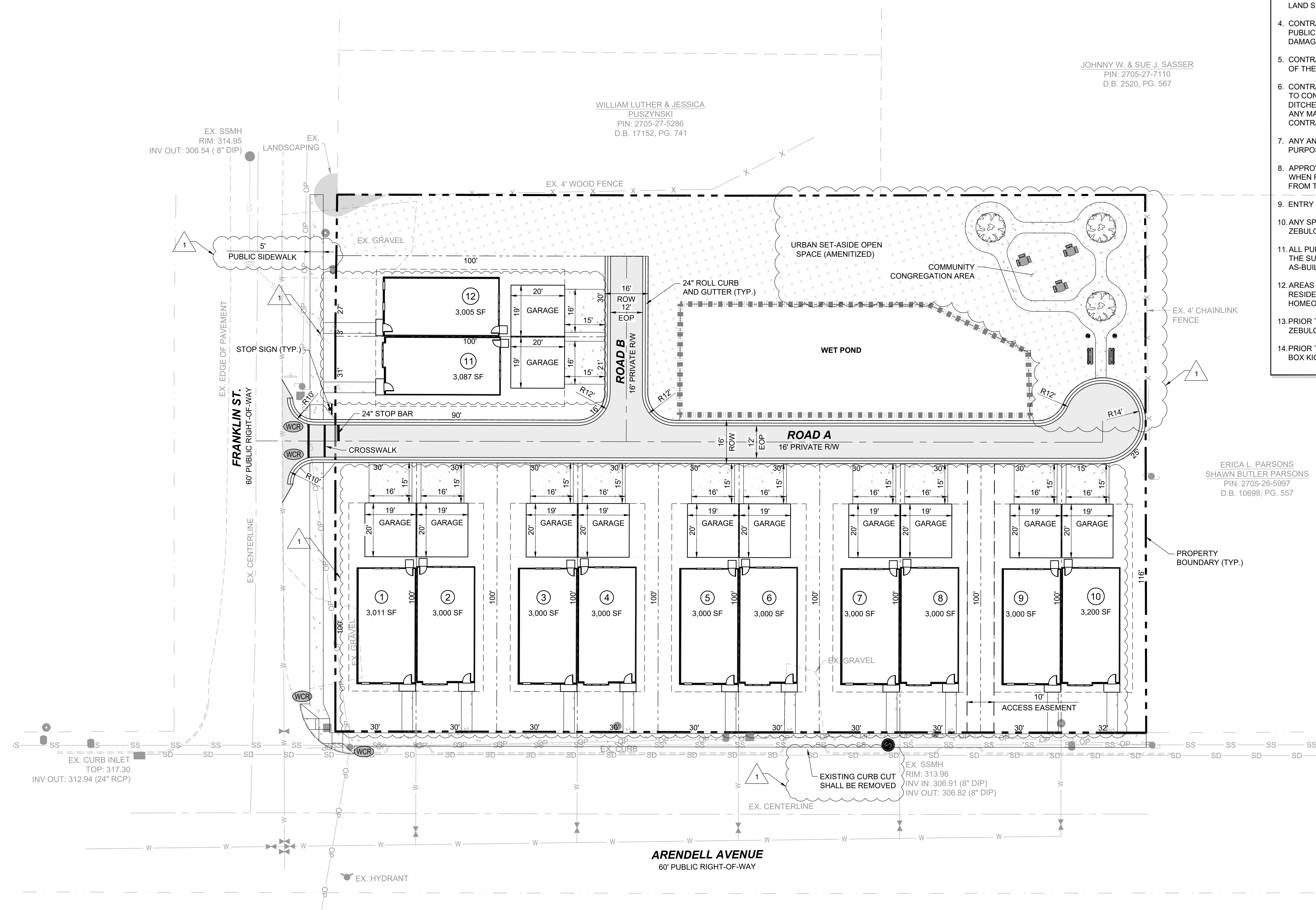
LEGEND:

- EXISTING PROPERTY LINE
- ROADWAY CENTER LINE
- PROPOSED PROPERTY LINE
- STANDARD CURB & GUTTER
- ASPHALT PAVEMENT
- OPEN SPACE
- STREET LIGHT
- SIGN
- STOP BAR
- WHEELCHAIR RAMP

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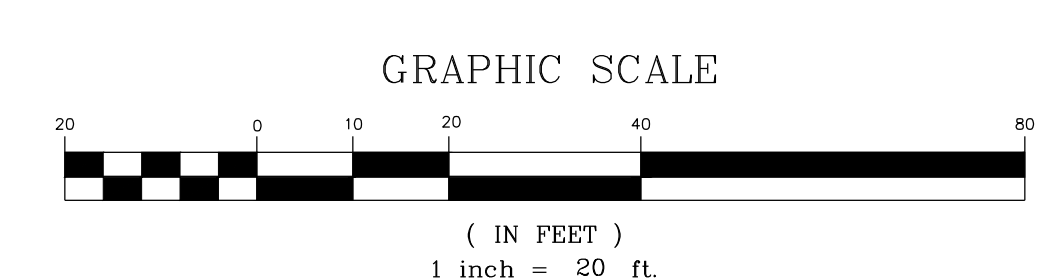
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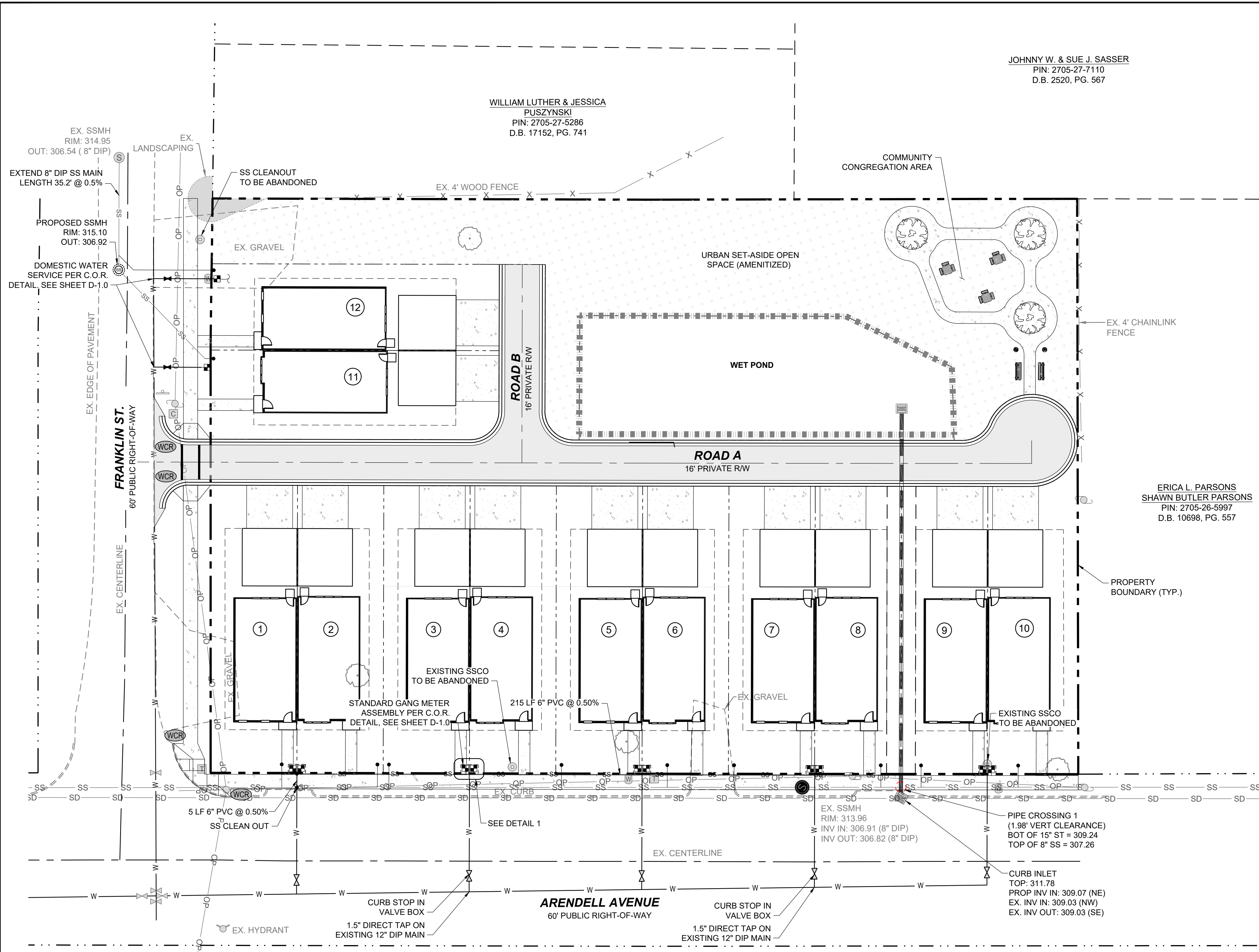
STRONGROCK
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STRONG ROCK PROJECT	NOT FOR CONSTRUCTION	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY
		AS SHOWN	RLB	SRG	JWL

TRUE- ZEBULON-ARENDELL
TOWN OF ZEBULON, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
SITE PLAN

DRAWING SHEET
C-2.0





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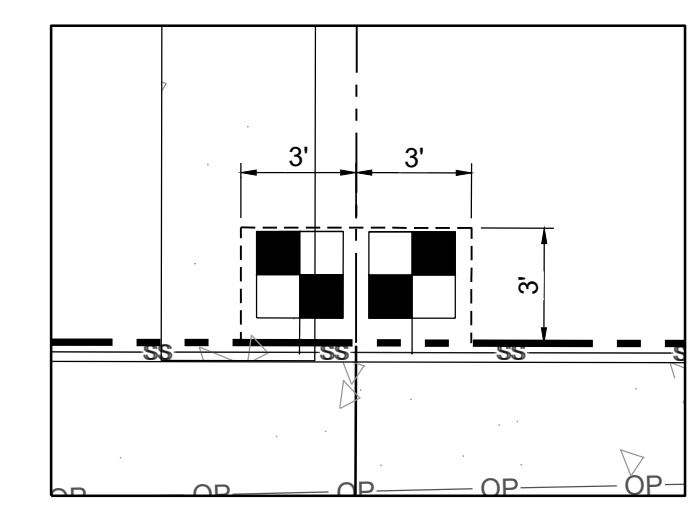
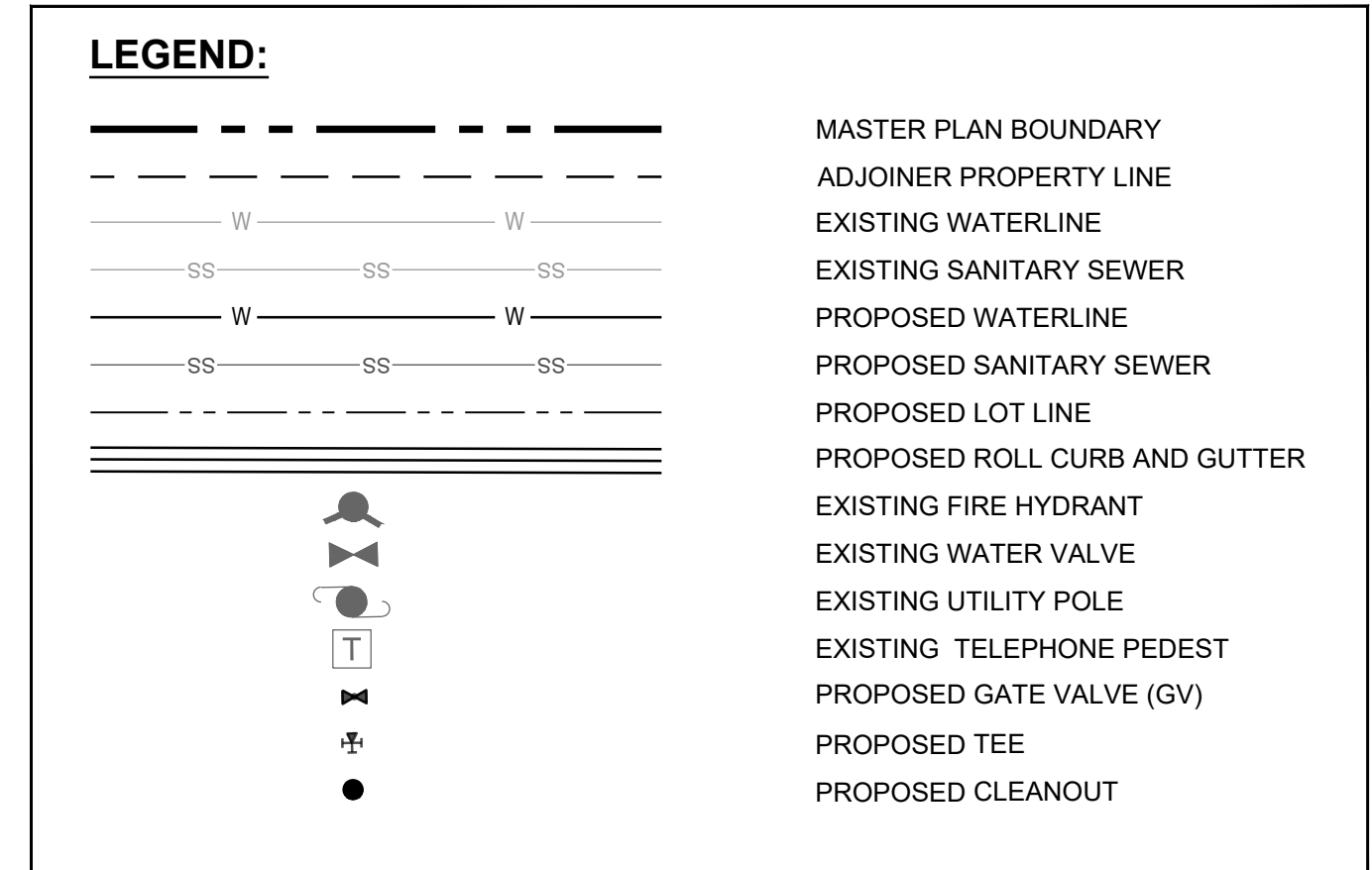
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UTILITY NOTES:

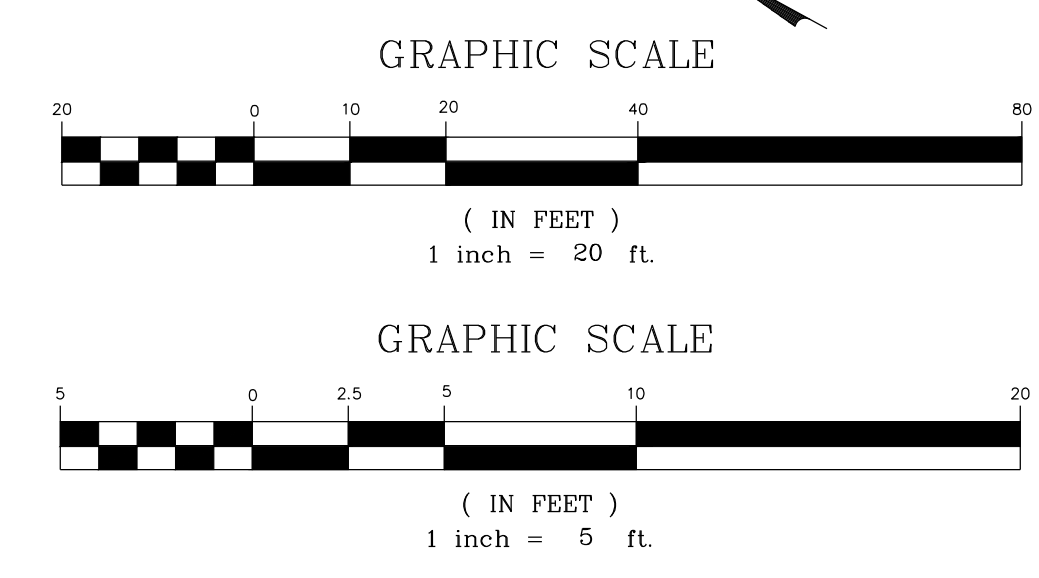
- ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF ZEBULON DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK, CURRENT EDITION)
- UTILITY SEPARATION REQUIREMENTS (TAKEN FROM CORPUD HANDBOOK, 2014 EDITION, SEWER DESIGN, MATERIAL, & CONSTRUCTION STANDARDS, SECTION 1, a. 15.):
 - A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL.
 - WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.
 - WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATERMAIN, DIP MATERIALS OR STEEL ENCASUREMENT EXTENDED 10' ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS.
 - 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER.
 - MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN CROSSINGS, MAINTAIN 24" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS, WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (PER CORPUD DETAILS W-41 & S-49).
 - ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION REQUIRED.
- ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE CITY OF ZEBULON PUBLIC UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24 HOUR ADVANCE NOTICE TO THE CITY OF ZEBULON PUBLIC UTILITIES DEPARTMENT.
- 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCEMAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.
- IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY THE CITY OF ZEBULON PUBLIC UTILITIES DEPARTMENT. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT PER CORPUD HANDBOOK PROCEDURE.
- INSTALL 3/4" COPPER* WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2'X2' WATERLINE EASEMENT IMMEDIATELY ADJACENT. NOTE: IT IS THE APPLICANT'S RESPONSIBILITY TO PROPERLY SIZE THE WATER SERVICE FOR EACH CONNECTION TO PROVIDE ADEQUATE FLOW & PRESSURE.
- INSTALL 4" PVC* SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM.
- PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAM MANHOLE.
- A 3-PARTY ENCROACHMENT AGREEMENT BETWEEN THE NCDOT, THE CITY OF ZEBULON PUBLIC UTILITIES, AND THE DEVELOPER MAY BE NEEDED FOR WATER AND SEWER SERVICE TAPS WITHIN THE NCDOT MAINTAINED RIGHT OF WAY. CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX-B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA. THESE GUIDELINES ARE THE MINIMUM REQUIREMENTS. THE DEVICES SHALL MEET AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS OR BE ON THE UNIVERSITY OF CALIFORNIA APPROVAL LIST. THE DEVICES SHALL BE INSTALLED AND TESTED (BOTH INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE LOCAL CROSS-CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. CONTACT JOANIE HARTLEY AT (919) 996-5923 OR JOANIE.HARTLEY@RALEIGHNC.GOV FOR MORE INFORMATION.
- PROPOSED PRIVATE UTILITIES (POWER, TELEPHONE, NATURAL GAS, CABLE TV) ARE NOT SHOWN ON THIS PLAN. THE DEVELOPER SHALL COORDINATE THE INSTALLATION OF THOSE UTILITIES WHEN INSTALLING PUBLIC UTILITIES.
- CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES PRIOR TO ANY LAND DISTURBANCE ACTIVITIES. IF ANY EXISTING UTILITIES ARE LOCATED THAT CAUSE A CONFLICT WITH PROPOSED UTILITIES, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CIVIL ENGINEER OF RECORD IN WRITING. IF SUCH A SCENARIO ARISES, THE PROPOSED UTILITY IN QUESTION SHALL NOT BE INSTALLED UNTIL AN ACCEPTABLE SOLUTION IS PREPARED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- CONTRACTOR SHALL ADJUST ALL CLEANOUTS, VALVE BOXES, MANHOLES, ETC. TO THE FINISHED GRADES ESTABLISHED BY THE PROJECT.
- ALL UNDERGROUND ELECTRICAL CONDUITS SHALL HAVE A MINIMUM COVER OF 36"; GAS AND COMMUNICATION LINES SHALL HAVE DEPTH AND SPACING AS SPECIFIED BY SERVICE COMPANY.
- MAXIMUM SPACING FOR SANITARY SEWER CLEANOUTS IS 75 FEET. ALL CLEANOUTS LOCATED IN DRIVE AISLES AND/OR PARKING AREAS SHALL TO BE TRAFFIC RATED.
- INVERT AT CLEANOUT IS INVERT ELEVATION AT THE CONNECTION OF THE HORIZONTAL BEND.
- A 3-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF FIRE HYDRANTS.
- CONTRACTOR SHALL PROVIDE PROPER NOTIFICATION TO AUTHORITIES HAVING JURISDICTION AS SPECIFIED IN AGENCY PERMIT CONDITIONS. AS A COURTESY, CIVIL ENGINEER OF RECORD REQUESTS NOTIFICATION.
- THRUST RESTRAINT SHALL BE IN ACCORDANCE WITH CITY OF ZEBULON STANDARD SPECIFICATIONS.
- WATER LINE TESTING AND STERILIZATION SHALL BE IN ACCORDANCE WITH CITY OF ZEBULON STANDARD SPECIFICATIONS.
- ALL NEW MANHOLES SHALL BE ECCENTRIC UNLESS OTHERWISE NOTED.
- ALL WATER AND SEWER SERVICE CONNECTIONS SHALL BE INSTALLED BY A LICENSED PLUMBER.

SITE PERMITTING APPROVAL:
WATER AND SEWER PERMITS (IF APPLICABLE)
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 # _____
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CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PERMIT # _____
UTILITIES DEPARTMENT PERMIT # _____
THE CITY OF RALEIGH CONSENTS TO THE CONNECTION TO ITS PUBLIC SEWER SYSTEM AND EXTENSION OF THE PRIVATE SEWER COLLECTION SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTIONS 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 # _____

NOTE:
WHERE PROPOSED SS PASSES OVER WATER AND STORM, SS MUST BE DUCTILE IRON WITH CONCRETE COLLAR, REFER TO DETAIL 5-49.



1 DETAIL 1
SCALE: 1:5



TRUE- ZEBULON-ARENDELL
TOWN OF ZEBULON, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
UTILITY PLAN

STRONGROCK
ENGINEERING GROUP
STRONG ROCK ENGINEERING GROUP, PLLC | COMPANY LICENSE # P-2166
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1 TRC REVIEW RESPONSES
09-30-2021

SEAL: PRELIMINARY

NO.	REVISIONS	DATE	BY

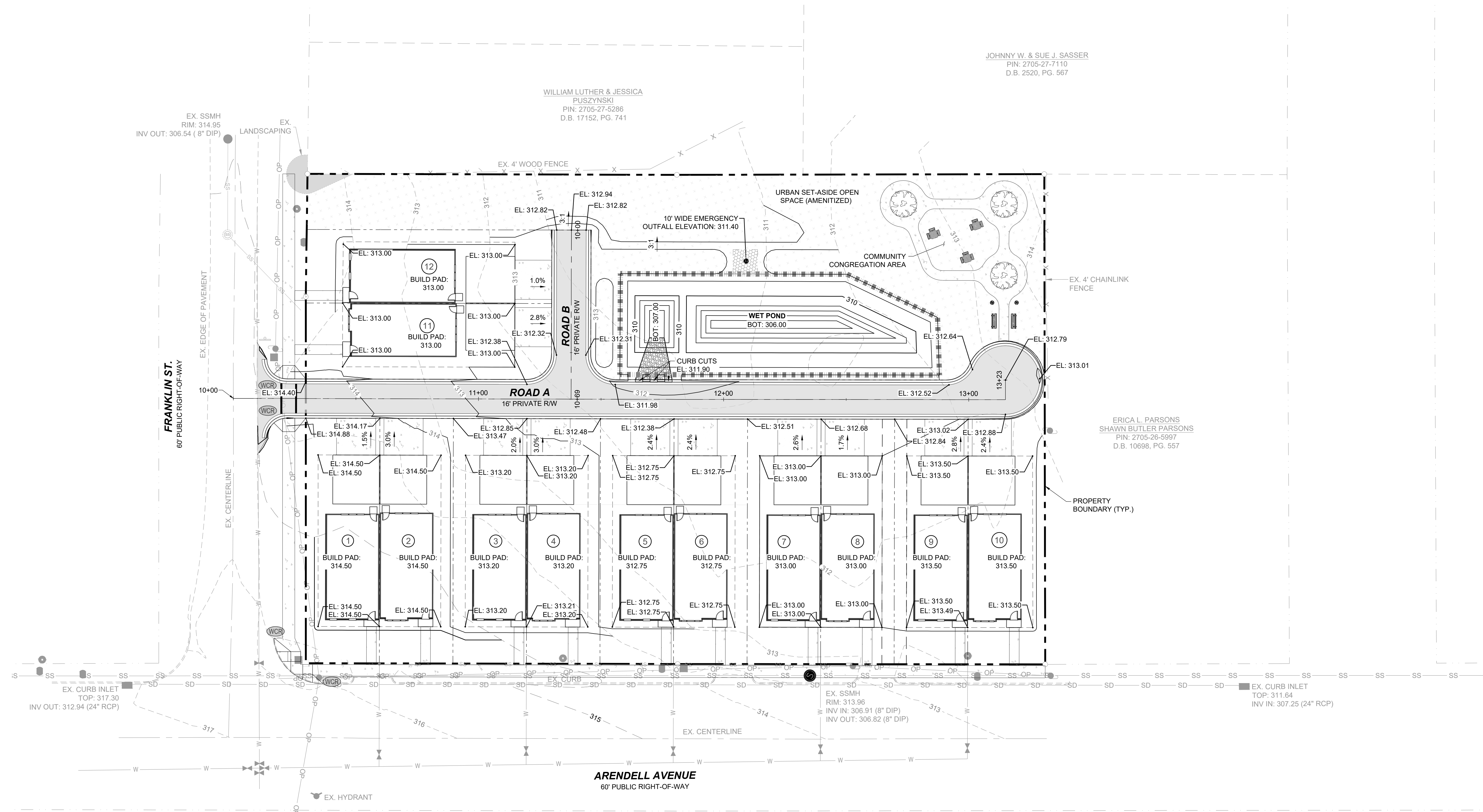
STRONG ROCK PROJECT
NOT FOR CONSTRUCTION
SCALE AS SHOWN
DESIGNED BY RLB
DRAWN BY SRG
CHECKED BY JWL

DRAWING SHEET
C-3.0
04 OF 12

JOHNNY W. & SUE J. SASSER
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 D.B. 2520, PG. 567

WILLIAM LUTHER & JESSICA
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 D.B. 17152, PG. 741

ERICA L. PARSONS
 SHAWN BUTLER PARSONS
 PIN: 2705-26-5997
 D.B. 10698, PG. 557



LEGEND:

	MASTER PLAN BOUNDARY
	ADJOINER PROPERTY LINE
	EXISTING WATERLINE
	EXISTING SANITARY SEWER
	PROPOSED LOT LINE
	PROPOSED ROLL CURB AND GUTTER
	EXISTING MAYOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAYOR CONTOUR
	PROPOSED MINOR CONTOUR
	EXISTING FIRE HYDRANT
	EXISTING WATER VALVE
	EXISTING UTILITY POLE
	EXISTING TELEPHONE PEDEST

GRADING NOTES:

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWN OF ZEBULON, CITY OF ZEBULON, NCDOT, AND/OR WAKE COUNTY STANDARDS AS APPLICABLE.
- CONTRACTOR SHALL COORDINATE ALL GRADING OPERATIONS WITH THE OWNERS GEOTECHNICAL ENGINEER.

NO.	REVISIONS	DATE	BY
1	TRC REVIEW RESPONSES	09-30-2021	

SEAL: PRELIMINARY

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			RLB	SRG	JWL

TRUE- ZEBULON-ARENDELL
 TOWN OF ZEBULON, WAKE COUNTY, NORTH CAROLINA
 CONSTRUCTION PLANS
GRADING PLAN

DRAWING SHEET
C-4.0

JOHNNY W. & SUE J. SASSER
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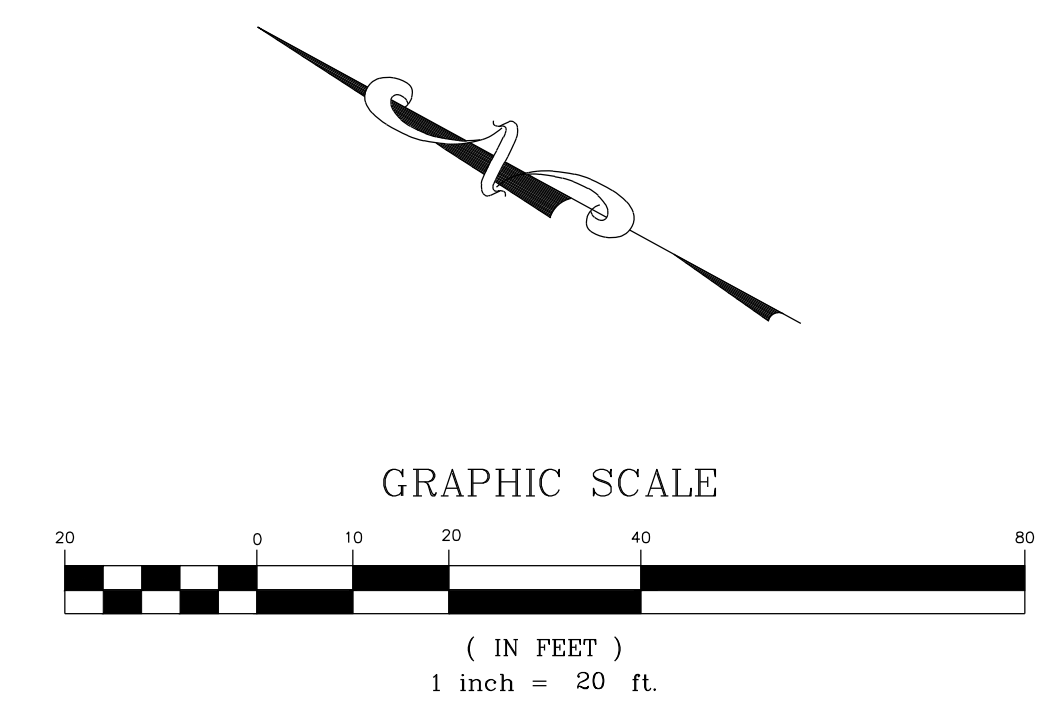
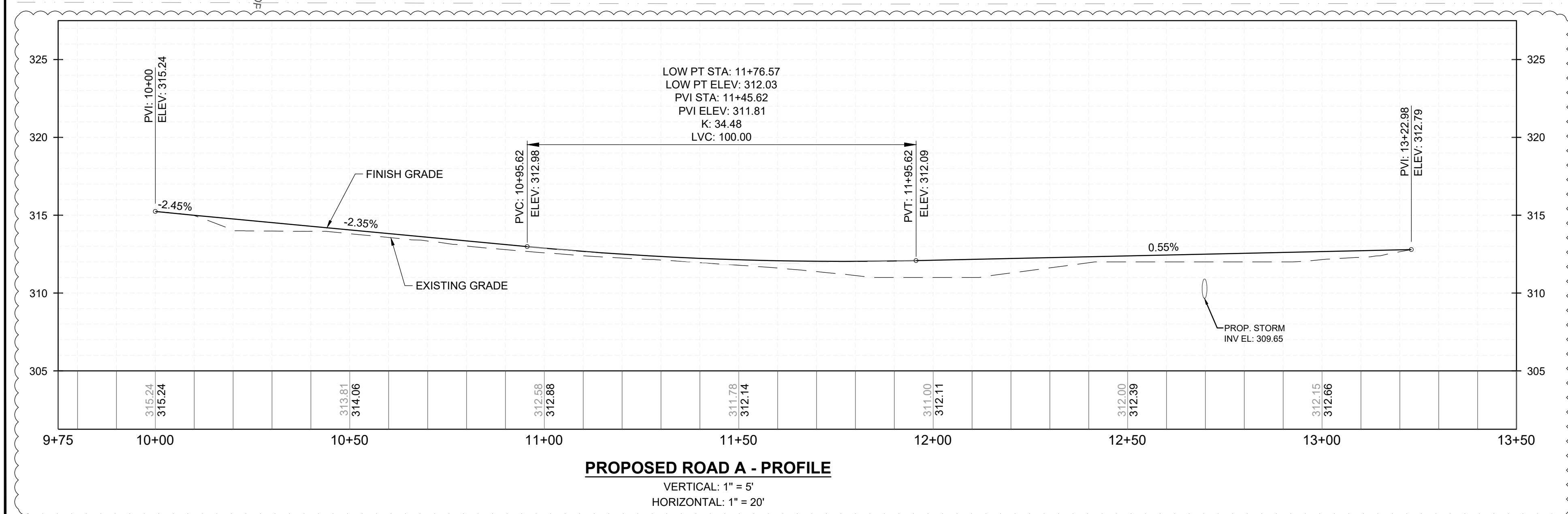
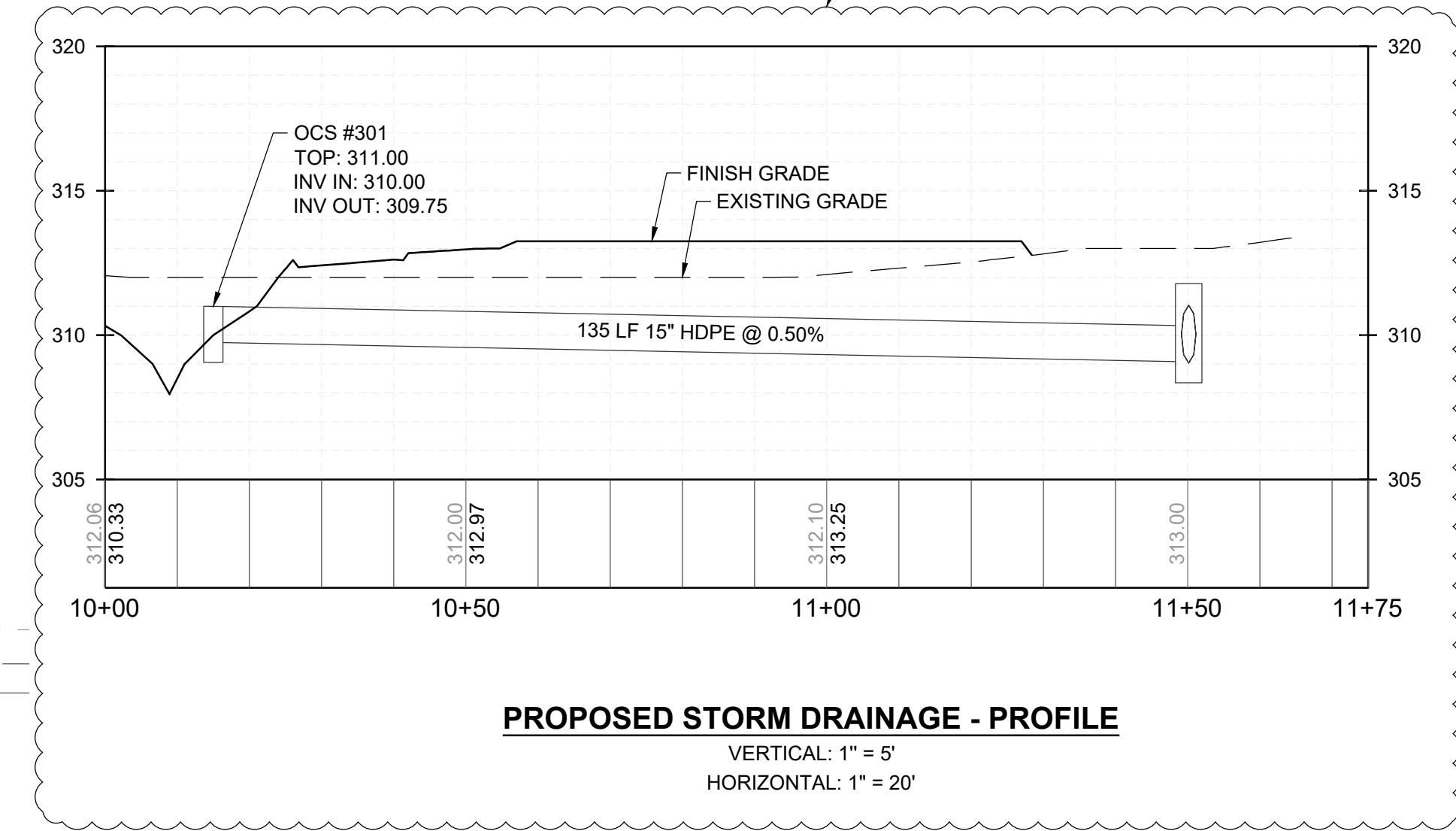
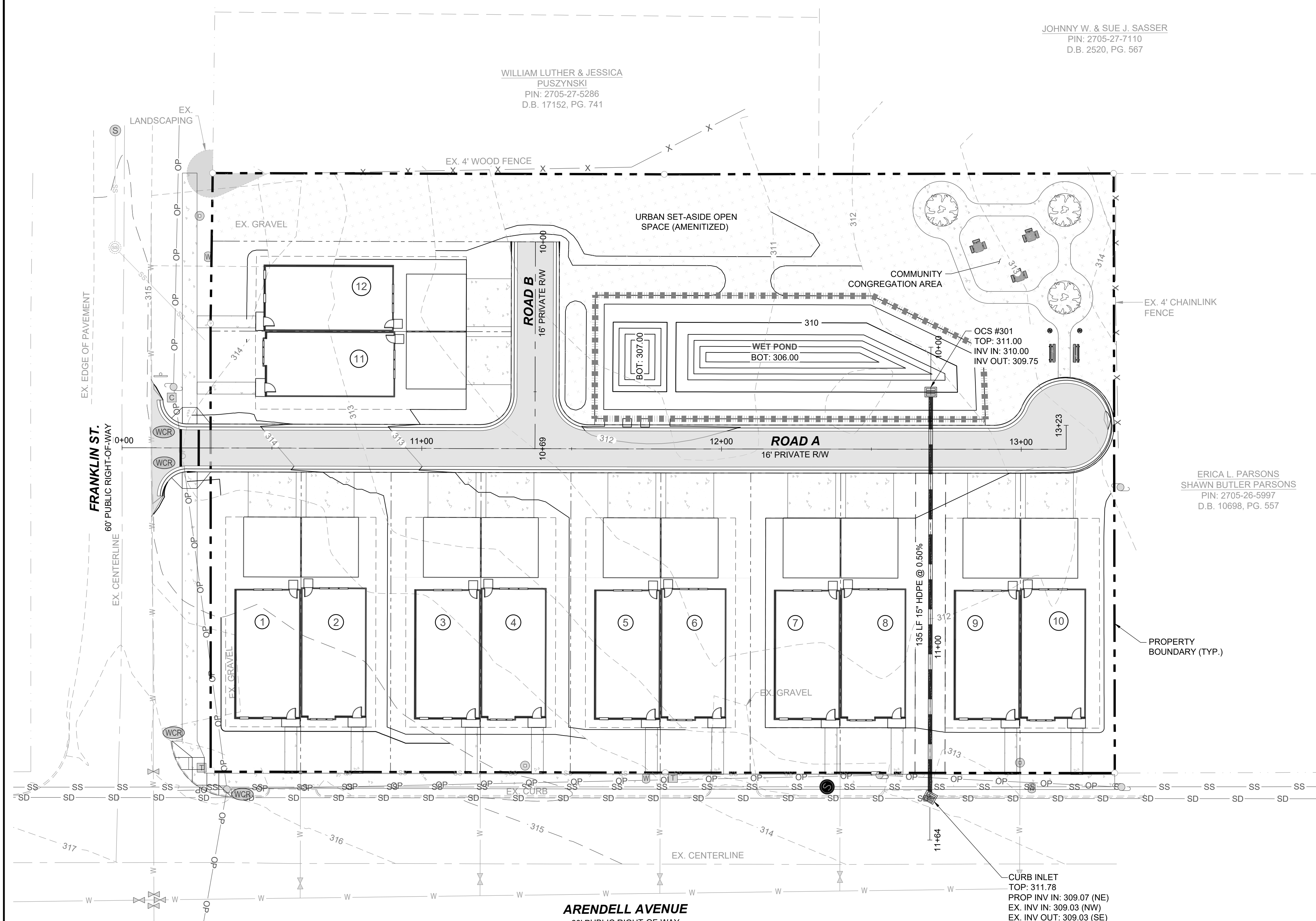
WILLIAM LUTHER & JESSICA
 PUSZYNSKI
 PIN: 2705-27-5286
 D.B. 17152, PG. 741

DRAINAGE NOTES:

1. CONTRACTOR SHALL MAINTAIN POSITIVE SLOPE AND OUTFALL OF ANY FOUNDATION DRAIN SYSTEMS.
2. ALL STORM DRAIN HOODS, MANHOLE COVERS AND GRATES ARE TO BE LABELED "NO DUMPING DRAINS TO STREAM".

LEGEND:

- EXISTING PROPERTY LINE
- ROADWAY CENTER LINE
- PROPOSED PROPERTY LINE
- STANDARD ROLL CURB & GUTTER
- PROPOSED STORM DRAIN LINE



NO.	REVISIONS	DATE	BY
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STRONG ROCK ENGINEERING GROUP, PLLC / COMPANY LICENSE # P-2166
 6801 FALLS OF NEUSE RD. SUITE 108 RALEIGH, NC 27615 | JOSH@STRONGROCKENGINEERING.COM

STRONG ROCK PROJECT	NOT FOR CONSTRUCTION	SCALE AS SHOWN	DESIGNED BY RLB	DRAWN BY SRG	CHECKED BY JWL
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TRUE- ZEBULON-ARENDELL
 TOWN OF ZEBULON, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
STORMWATER PLAN

DRAWING SHEET
C-5.0
 06 OF 12

JOHNNY W. & SUE J. SASSER
PIN: 2705-27-7110
D.B. 2520, PG. 567

WILLIAM LUTHER & JESSICA
PUSZYNSKI
PIN: 2705-27-5286
D.B. 17152, PG. 741

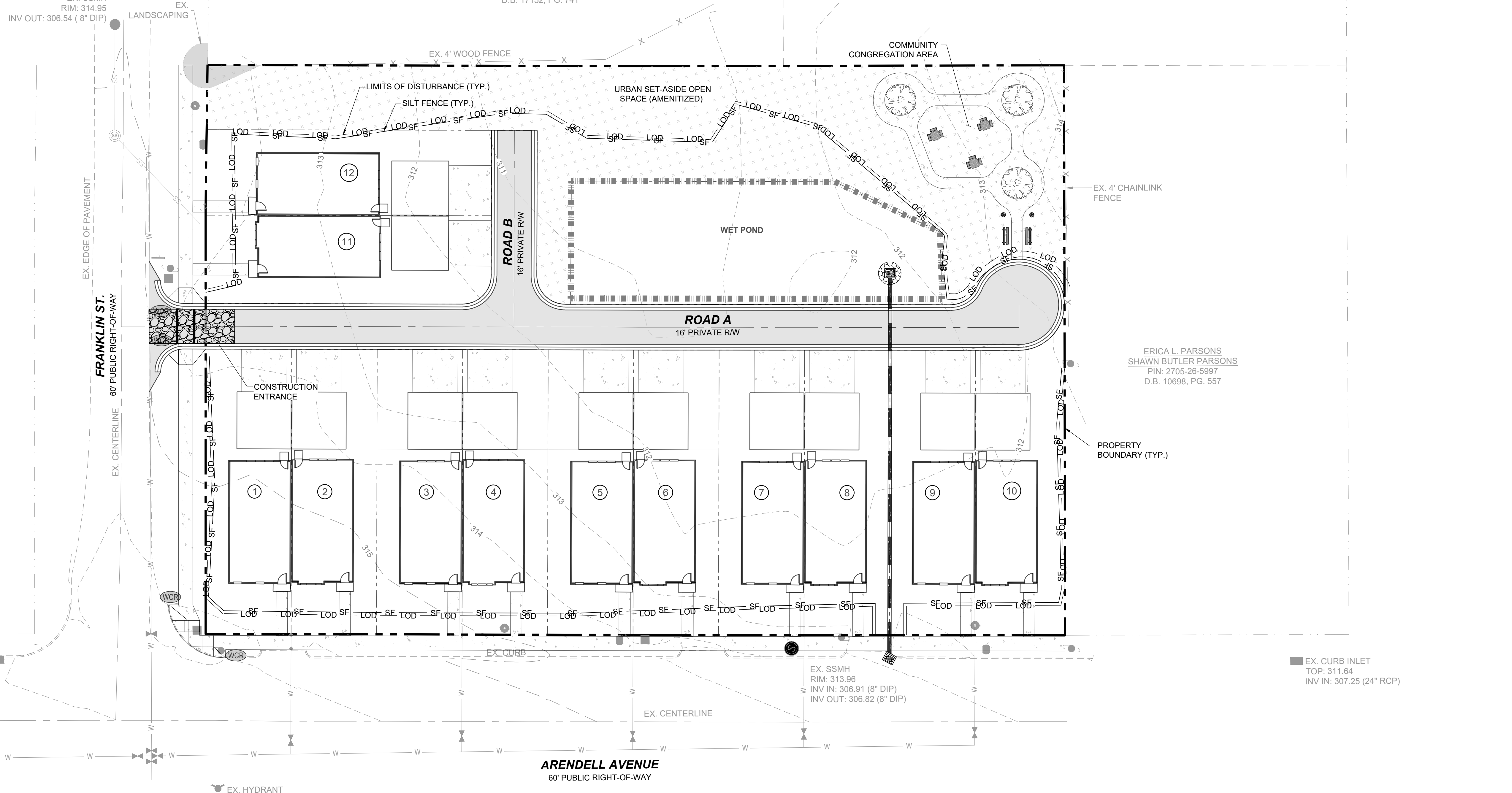
ERICA L. PARSONS
SHAWN BUTLER PARSONS
PIN: 2705-26-5997
D.B. 10698, PG. 557

EX. SSMH
RIM: 314.95
INV OUT: 306.54 (8" DIP)

EX. CURB INLET
TOP: 317.30
INV OUT: 312.94 (24" RCP)

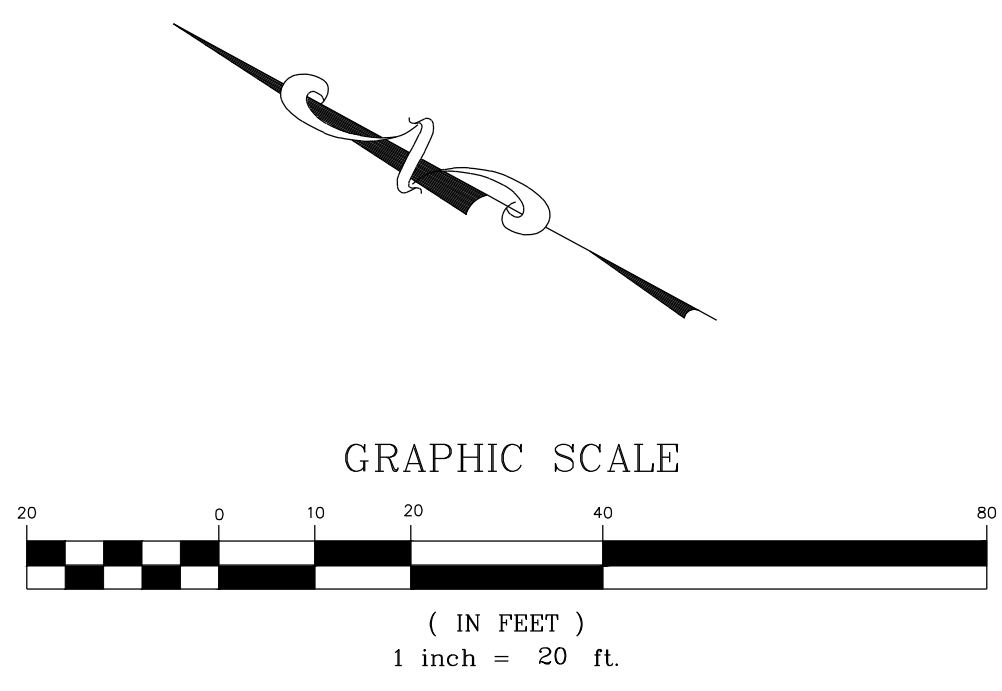
EX. SSMH
RIM: 313.96
INV IN: 306.91 (8" DIP)
INV OUT: 306.82 (8" DIP)

EX. CURB INLET
TOP: 311.64
INV IN: 307.25 (24" RCP)



LEGEND:

- EXISTING PROPERTY LINE
- LIMITS OF DISTURBANCE
- SILT FENCE
- CONSTRUCTION ENTRANCE
- INLET PROTECTION



NO.	REVISIONS	DATE	BY
1	TRC REVIEW RESPONSES	09-30-2021	

SEAL: PRELIMINARY

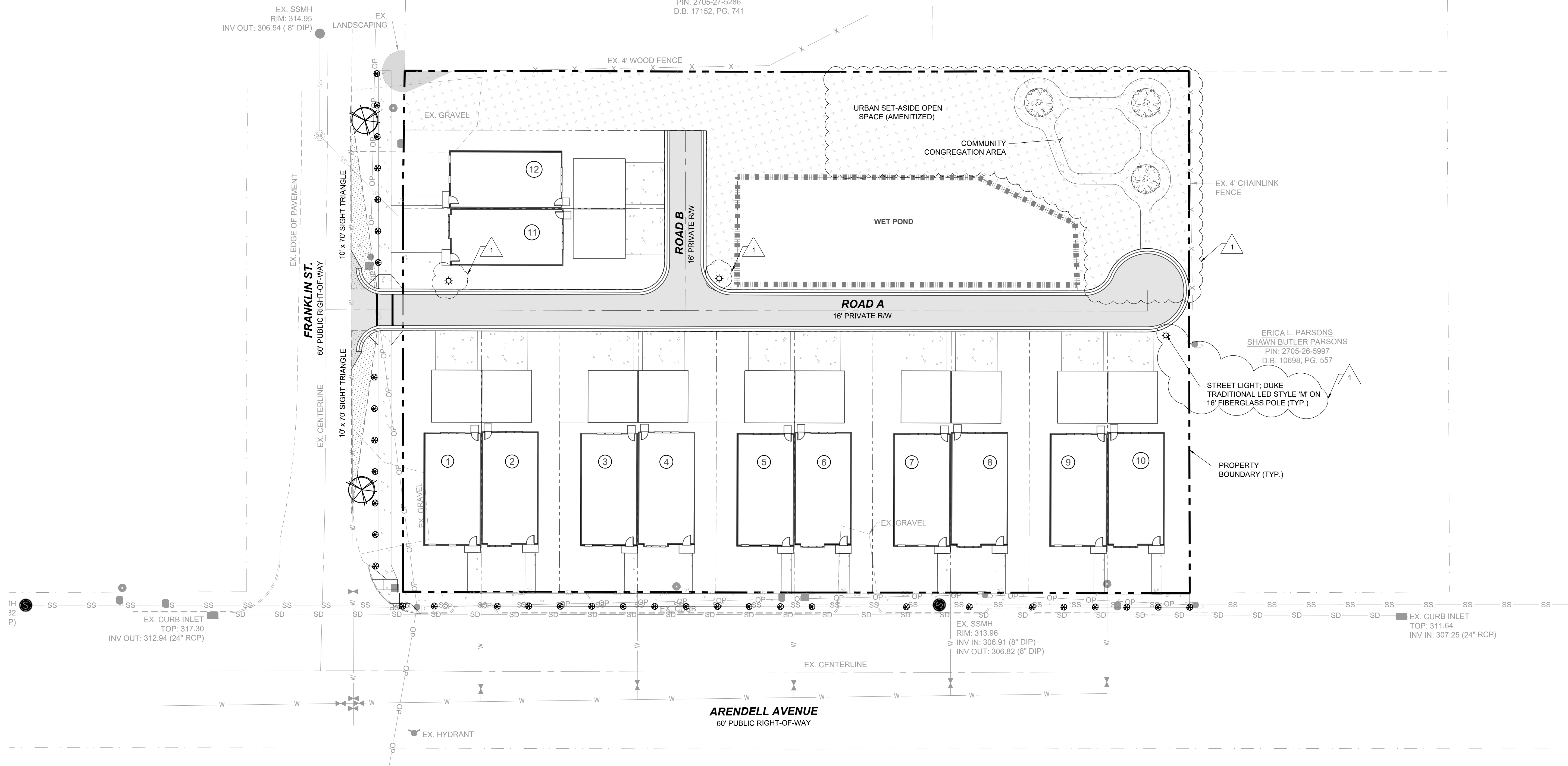
STRONGROCK
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6801 FALLS OF NEUSE RD. SUITE 108 RALEIGH, NC 27615 | JOSH@STRONGROCKENGINEERING.COM

STRONG ROCK PROJECT	NOT FOR CONSTRUCTION SCALE AS SHOWN	DESIGNED BY	RUB	SRG	DRAWN BY	CHECKED BY

TRUE- ZEBULON-AREDELLE
TOWN OF ZEBULON, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
EROSION CONTROL PLAN

DRAWING SHEET
C-6.0

WILLIAM LUTHER & JESSICA
PUSZYNSKI
PIN: 2705-27-5286
D.B. 17152, PG. 741



NO.	REVISIONS	DATE	BY
1	TRC REVIEW RESPONSES	09-30-2021	

SEAL: PRELIMINARY

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8801 FALLS OF NEUSE RD. SUITE 108 RALEIGH, NC 27615 | JOSH@STRONGROCKENGINEERING.COM

STRONG ROCK PROJECT	NOT FOR CONSTRUCTION	SCALE AS SHOWN	DESIGNED BY	DRWN BY	CHECKED BY
			RLB	SRG	JWL

TRUE- ZEBULON-ARENDELL
TOWN OF ZEBULON, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
LANDSCAPING PLAN

LEGEND:

	CAMELLIA (CJ)
	TRIDENT MAPLE (AB)

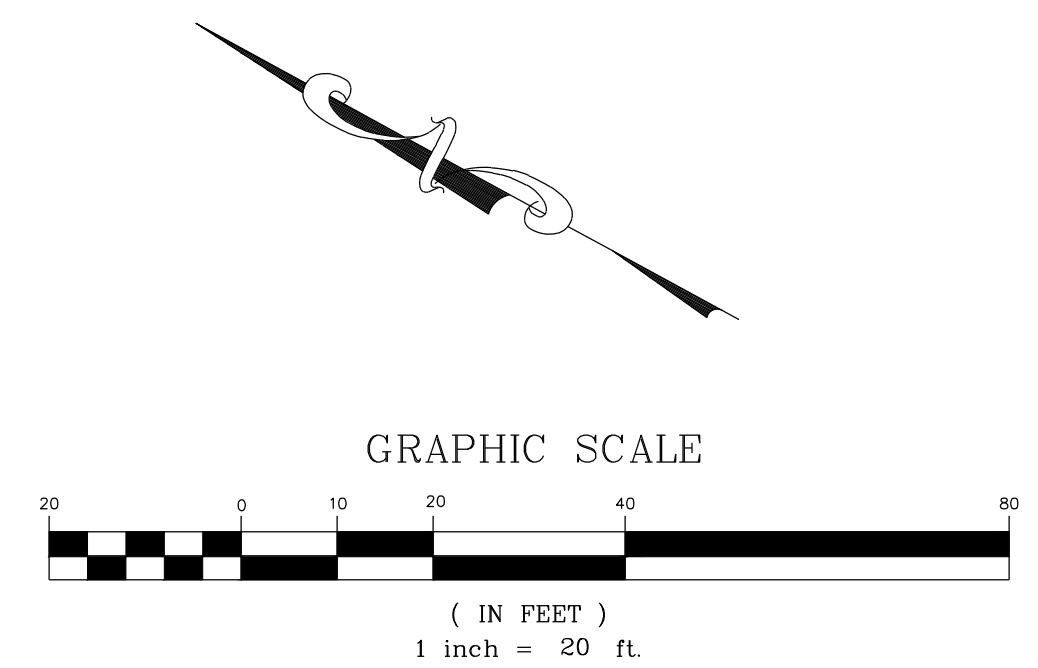
PLANTING SCHEDULE:

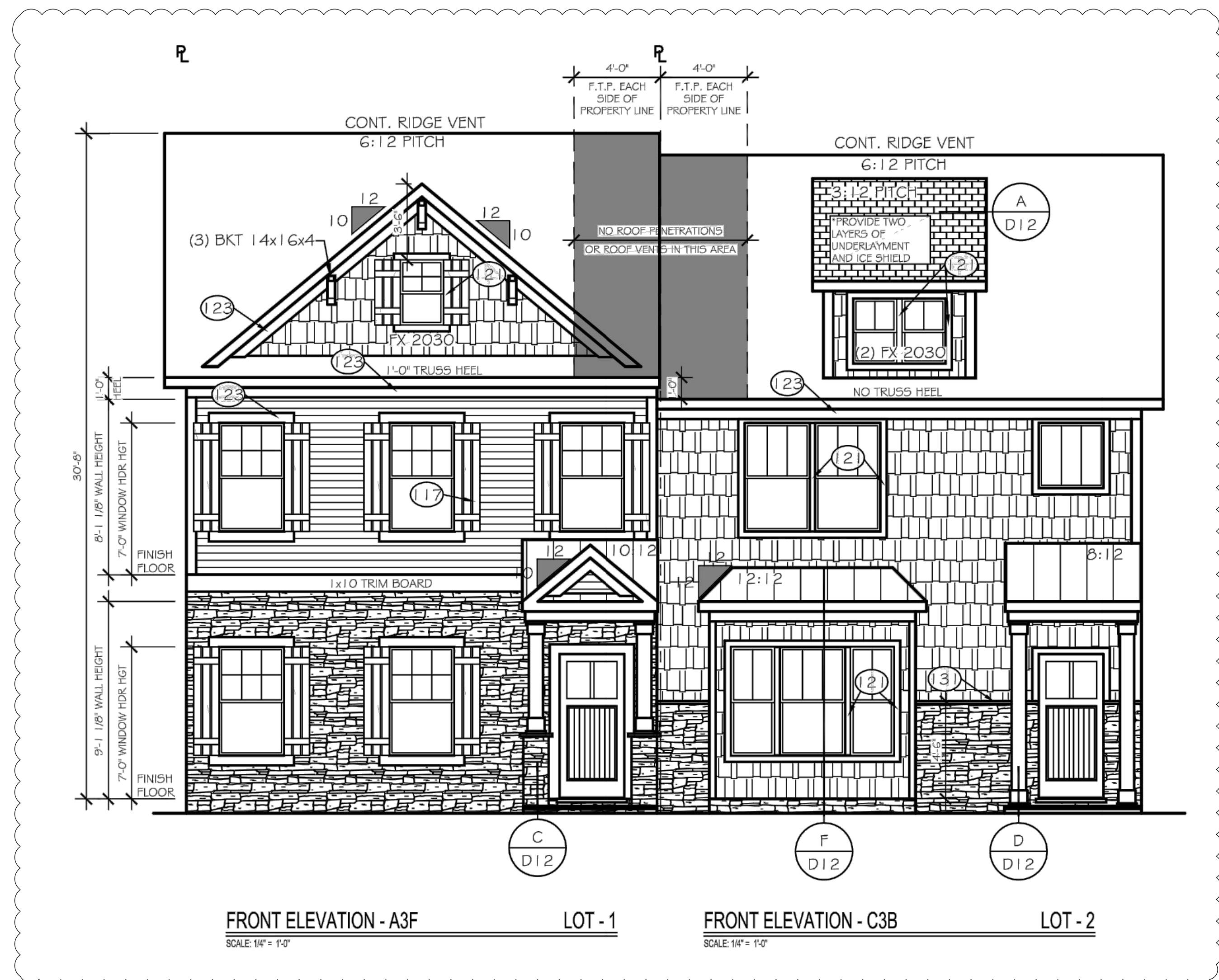
KEY	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	SIZE	HEIGHT
PERIMETER BUFFERS						
AB	2	ACER BUERGERIANUM	TRIDENT MAPLE	B&B	1" CAL	6'
CJ	35	CAMELLIA JAPONICA	CAMELLIA	GAL.	3 GAL	18"

- GENERAL PLANTING NOTES:**
- STREET TREES SHALL BE INSTALLED SUCH THAT ONE TREE IS REQUIRED ALONG THE RESIDENTIAL STREET AS SHOWN, SPACED EVERY 40 FEET.
 - DO NOT PLACE STREET TREES WITHIN A PUBLIC STORM OR UTILITY EASEMENT.
 - ALL CANOPY TREES SHALL BE MIN. 8" TALL AND 2" CALIPER AT TIME OF PLANTING.
 - ALL UNDERSTORY TREES SHALL BE MIN. 6" TALL AND 1" CALIPER AT TIME OF PLANTING.
 - LANDSCAPING IN AREAS OUTSIDE OF RIGHT OF WAY ARE TO BE PROVIDED BY THE DEVELOPER. ANY LANDSCAPING INSTALLED WITHIN THESE AREAS ARE TO BE MAINTAINED BY THE DEVELOPER UNTIL HOME OWNERS ASSOCIATION (HOA) IS ESTABLISHED. HOA WILL BE RESPONSIBLE FOR CONTINUED MAINTENANCE OF LANDSCAPING AND ANY IMPROVEMENTS OUTSIDE THE RIGHT OF WAY.
 - ADDITIONAL LANDSCAPING ON SITE MAYBE PROVIDED BY DEVELOPER.

LEGEND:

	EXISTING PROPERTY LINE
	ROADWAY CENTER LINE
	PROPOSED PROPERTY LINE
	STANDARD CURB & GUTTER
	ASPHALT PAVEMENT
	OPEN SPACE
	STREET LIGHT





FRONT ELEVATION - A3F

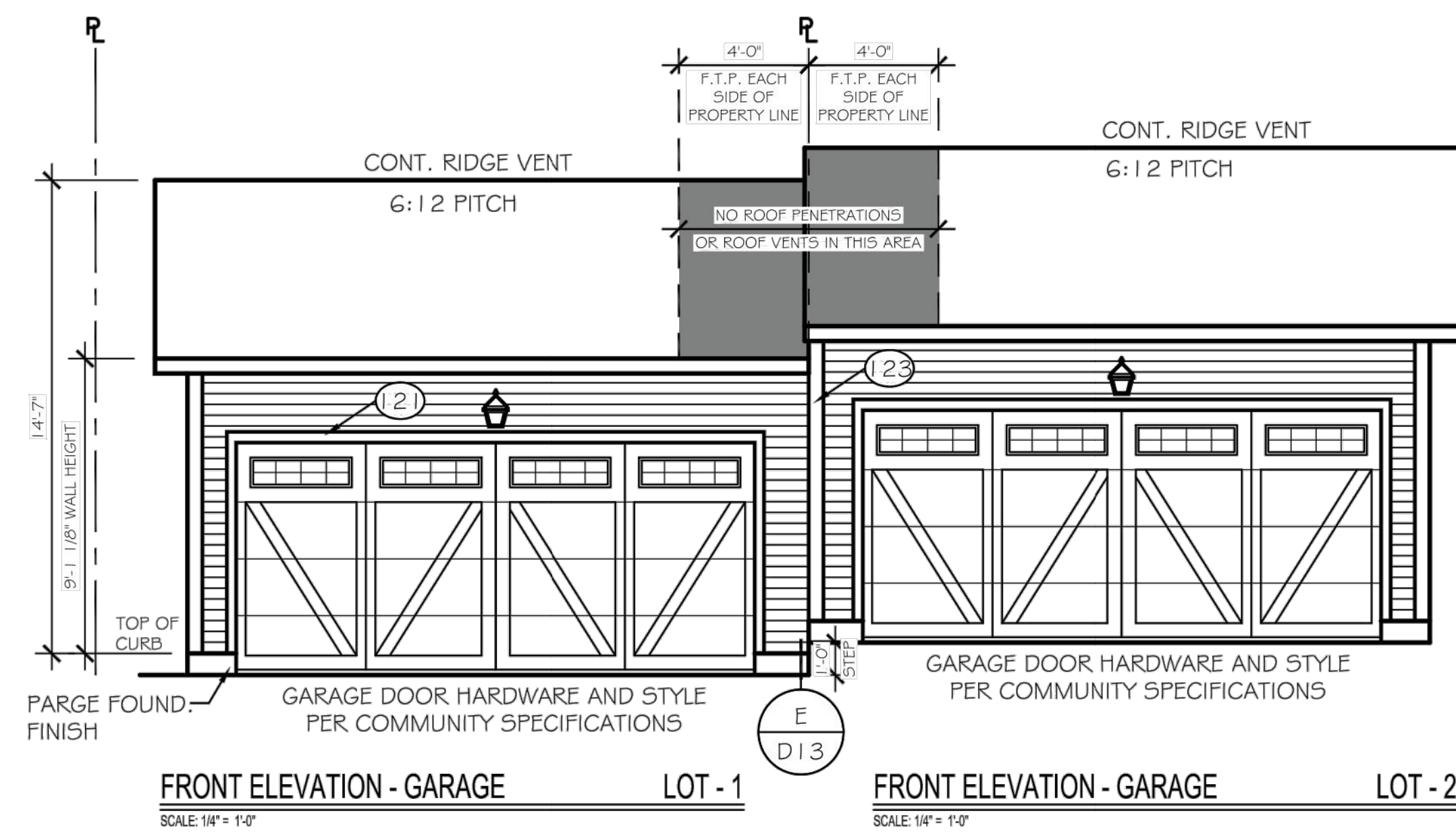
LOT - 1

FRONT ELEVATION - C3B

LOT - 2

SCALE: 1/4" = 1'-0"

SCALE: 1/4" = 1'-0"



FRONT ELEVATION - GARAGE

LOT - 1

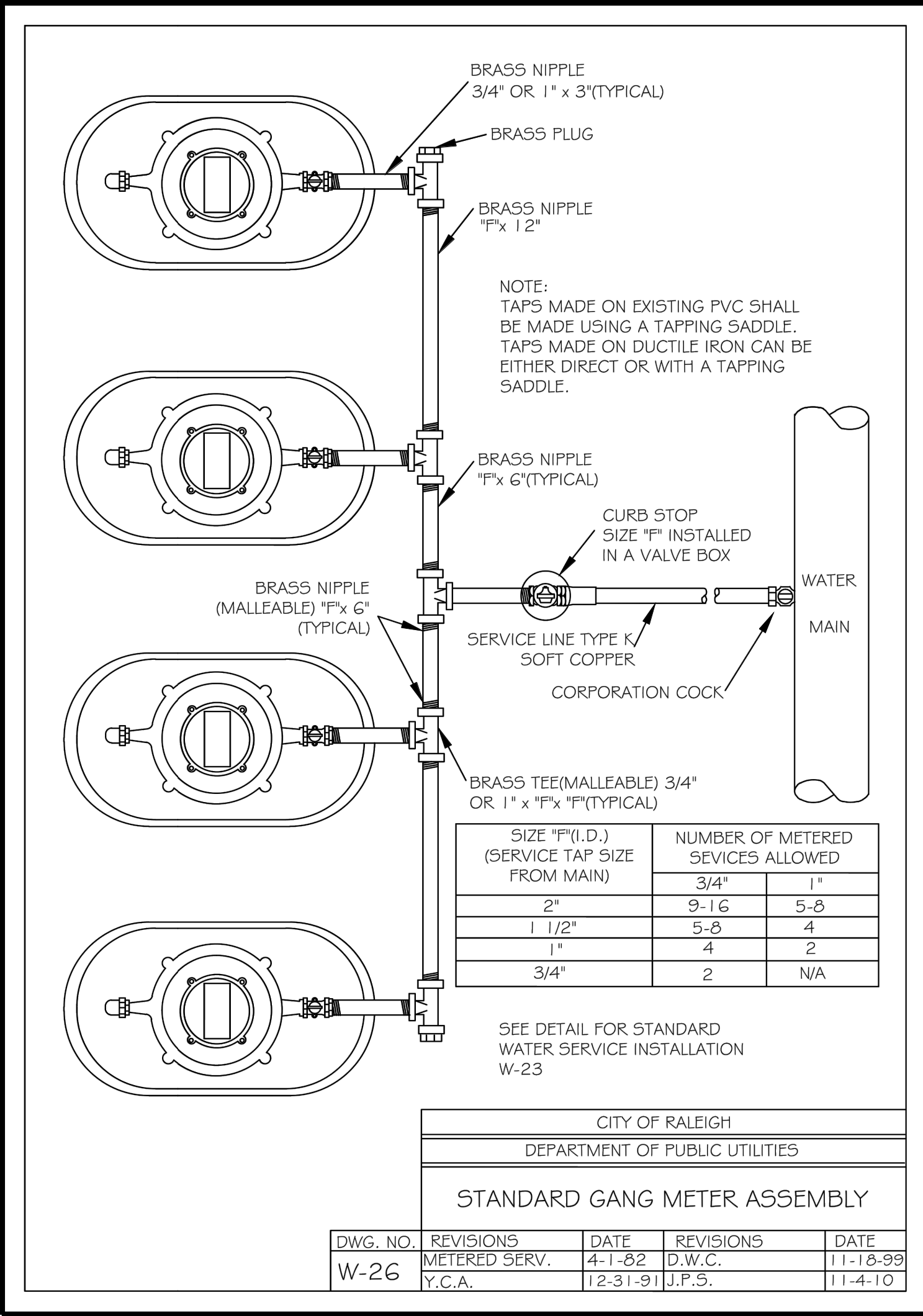
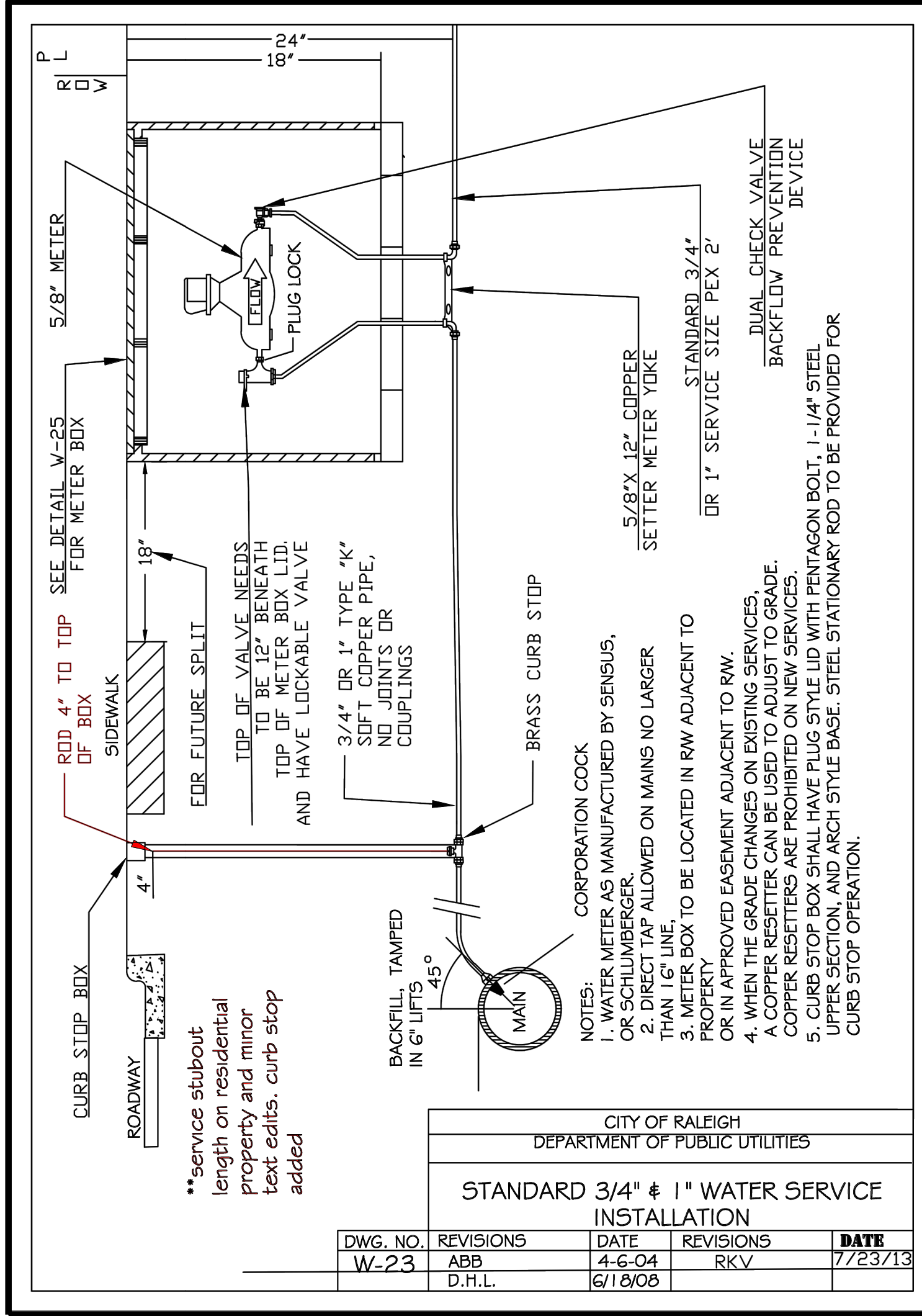
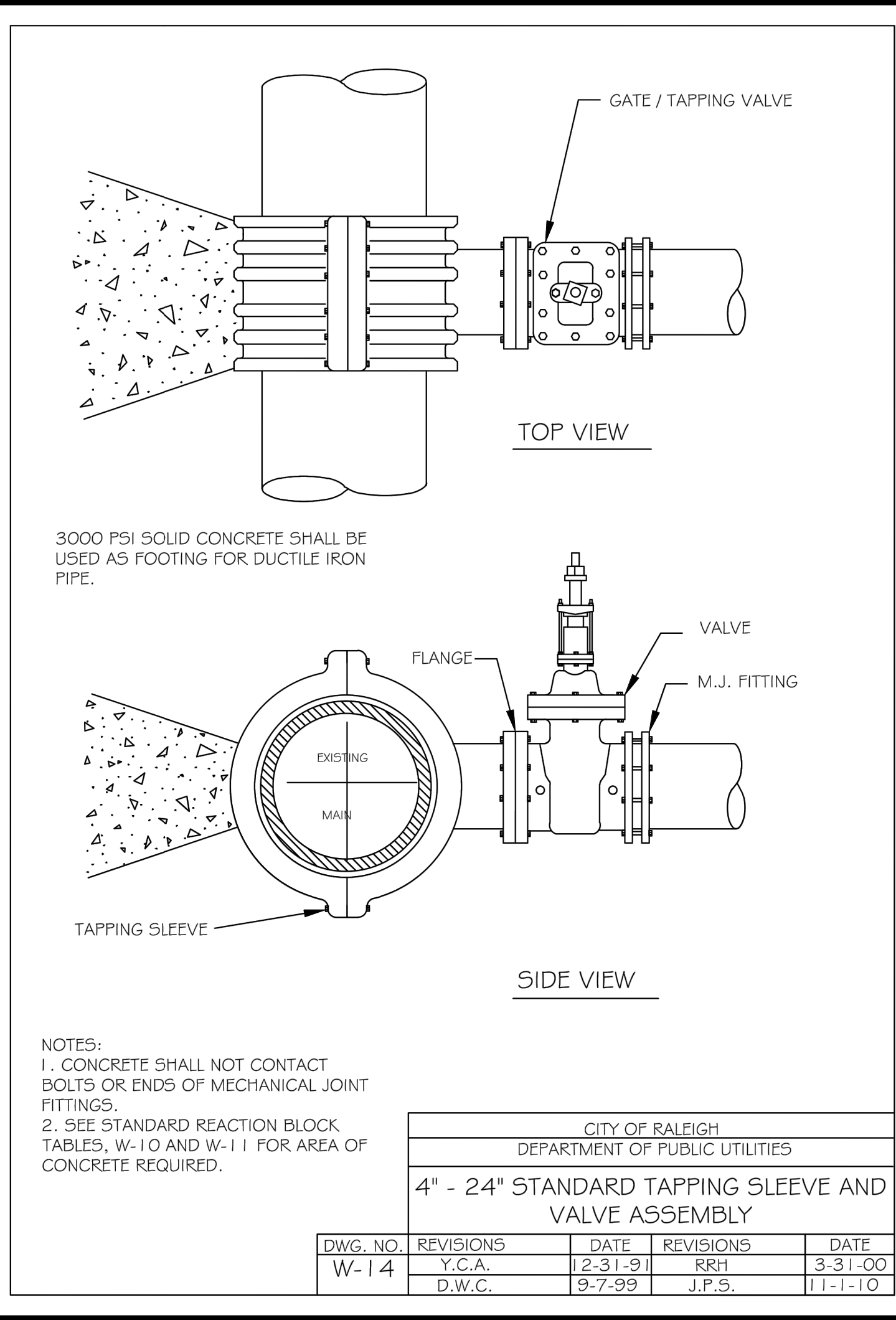
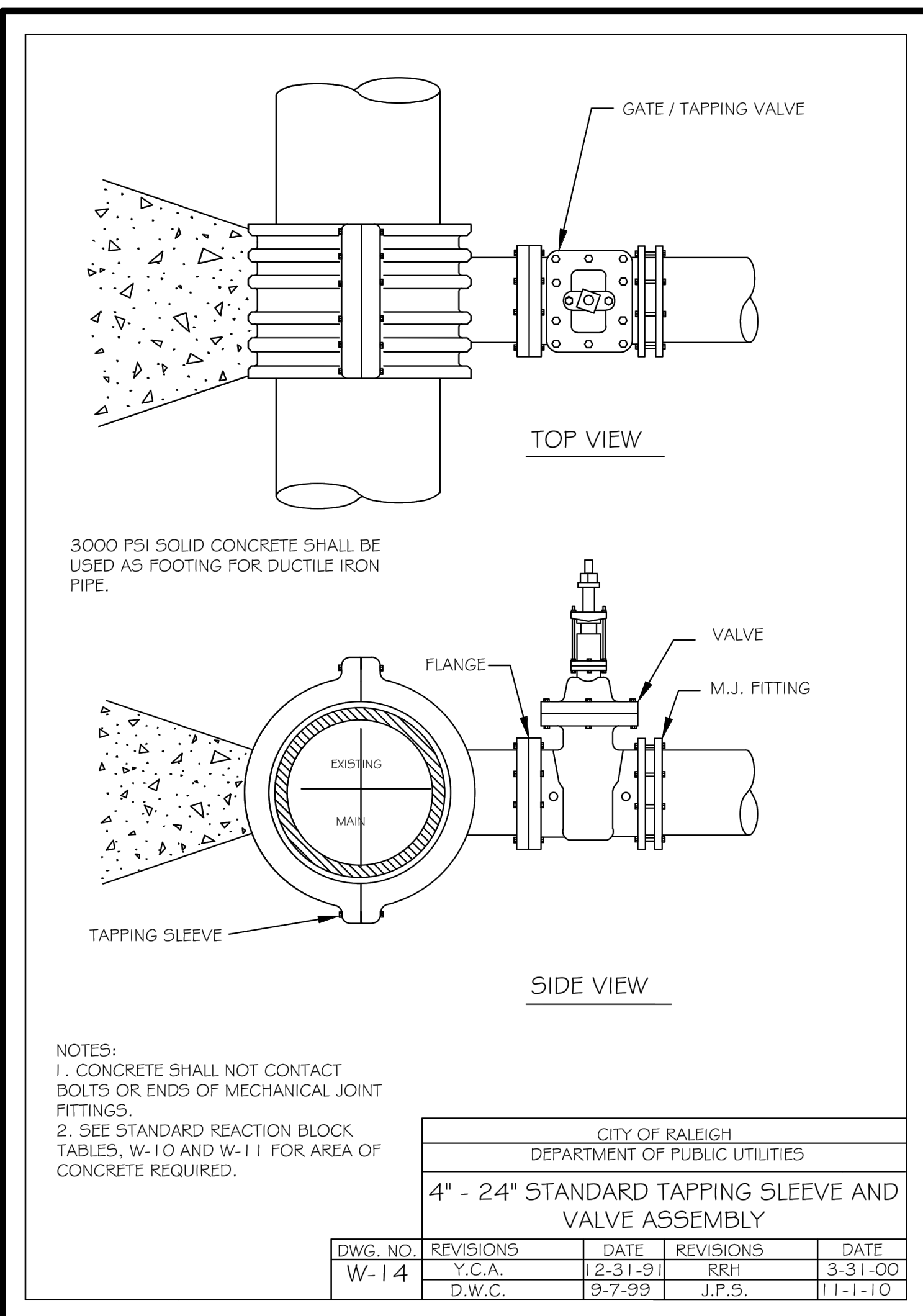
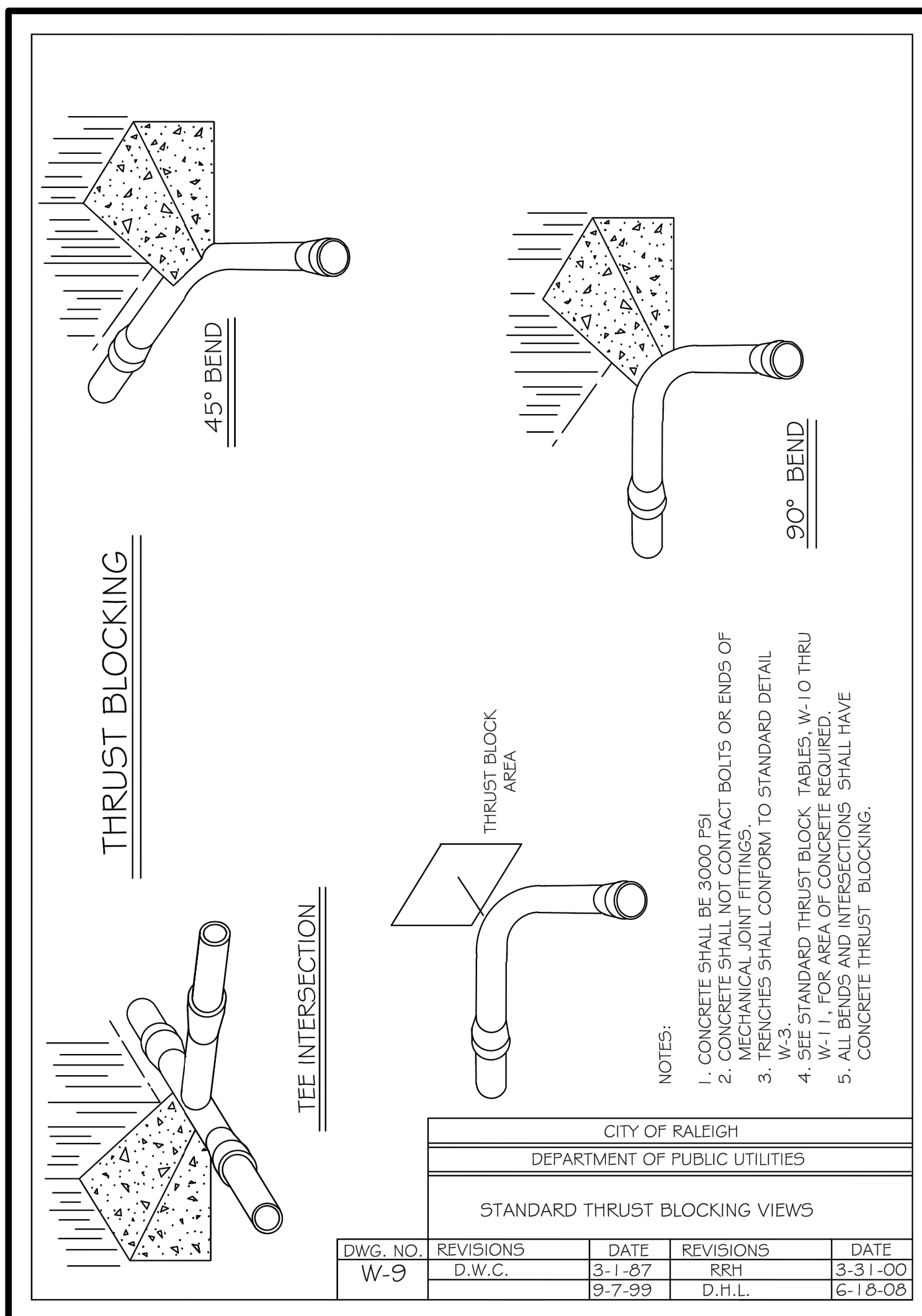
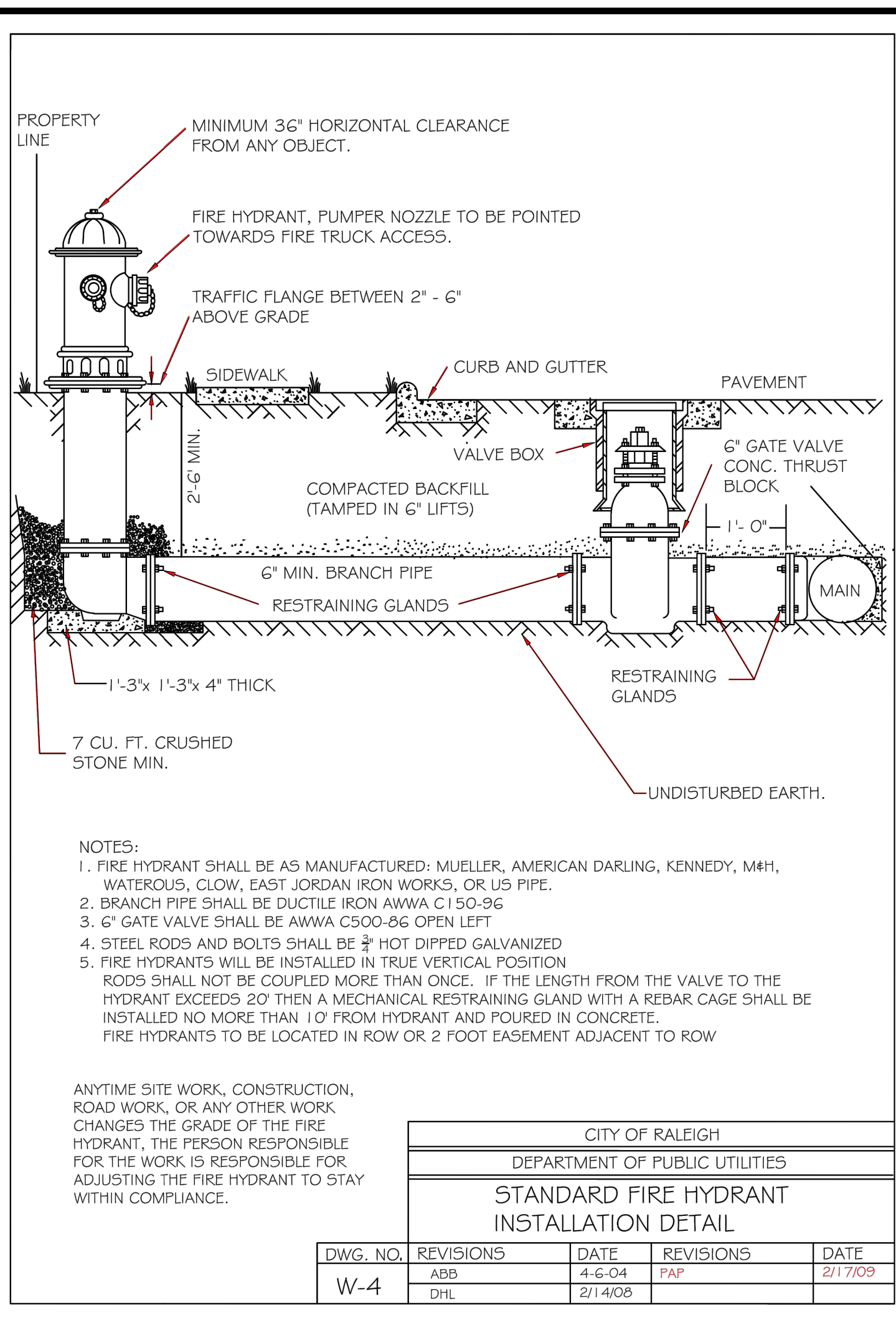
FRONT ELEVATION - GARAGE

LOT - 2

SCALE: 1/4" = 1'-0"

SCALE: 1/4" = 1'-0"

STRONG ROCK PROJECT		NOT FOR CONSTRUCTION	SCALE AS SHOWN	DESIGNED BY RLB	DRAWN BY SRG	CHECKED BY JWL
TRUE- ZEBULON-ARENDELL TOWN OF ZEBULON, WAKE COUNTY, NORTH CAROLINA CONSTRUCTION PLANS		BUILDING ELEVATIONS				
DRAWING SHEET		D-1.0				
09 OF 12		DATE				
1 TRG REVIEW RESPONSES		REVISIONS				
1		No.				
SEAL: PRELIMINARY		DATE				
STRONG ROCK ENGINEERING GROUP, PLLC 8801 FALLS OF NEUSE RD. SUITE 108 RALEIGH, NC 27615 JOSH@STRONGROCKENGINEERING.COM		BY				



CITY OF ZEBULON - PLANS AUTHORIZED FOR CONSTRUCTION:

ELECTRONIC APPROVAL: THIS APPROVAL IS BEING ISSUED ELECTRONICALLY. THIS APPROVAL IS VALID ONLY UPON THE SIGNATURE OF A CITY OF ZEBULON REVIEW OFFICER BELOW. THE CITY WILL RETAIN A COPY OF THE APPROVED PLANS. ANY WORK AUTHORIZED BY THIS APPROVAL MUST PROCEED IN ACCORDANCE WITH THE PLANS KEPT ON FILE WITH THE CITY. THIS ELECTRONIC APPROVAL MAY NOT BE EDITED ONCE ISSUED. ANY MODIFICATION TO THIS APPROVAL ONCE ISSUED WILL INVALIDATE THIS APPROVAL.

CITY OF ZEBULON DEVELOPMENT APPROVAL _____

ZEBULON WATER REVIEW OFFICER _____

STRONGROCK ENGINEERING GROUP

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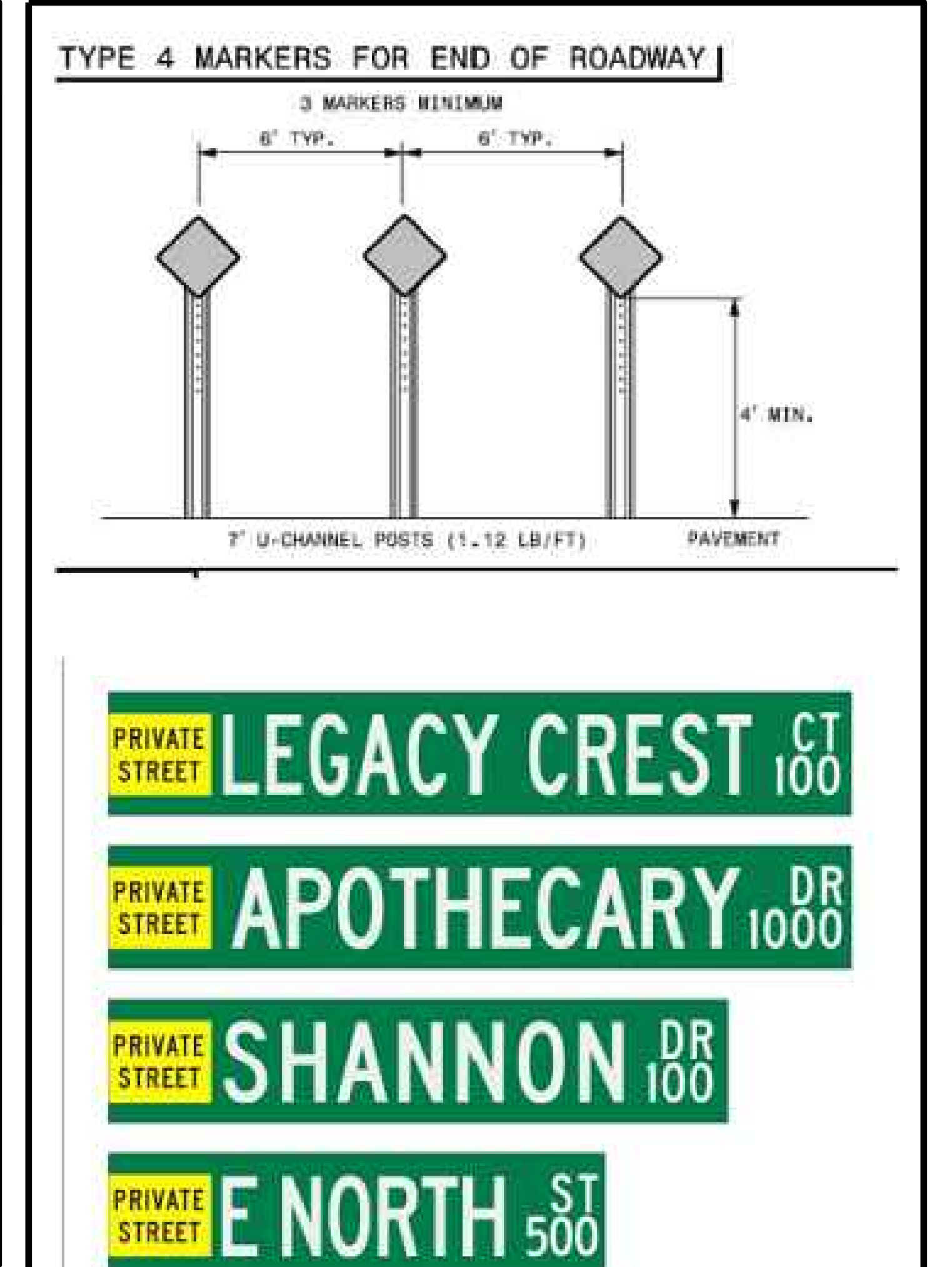
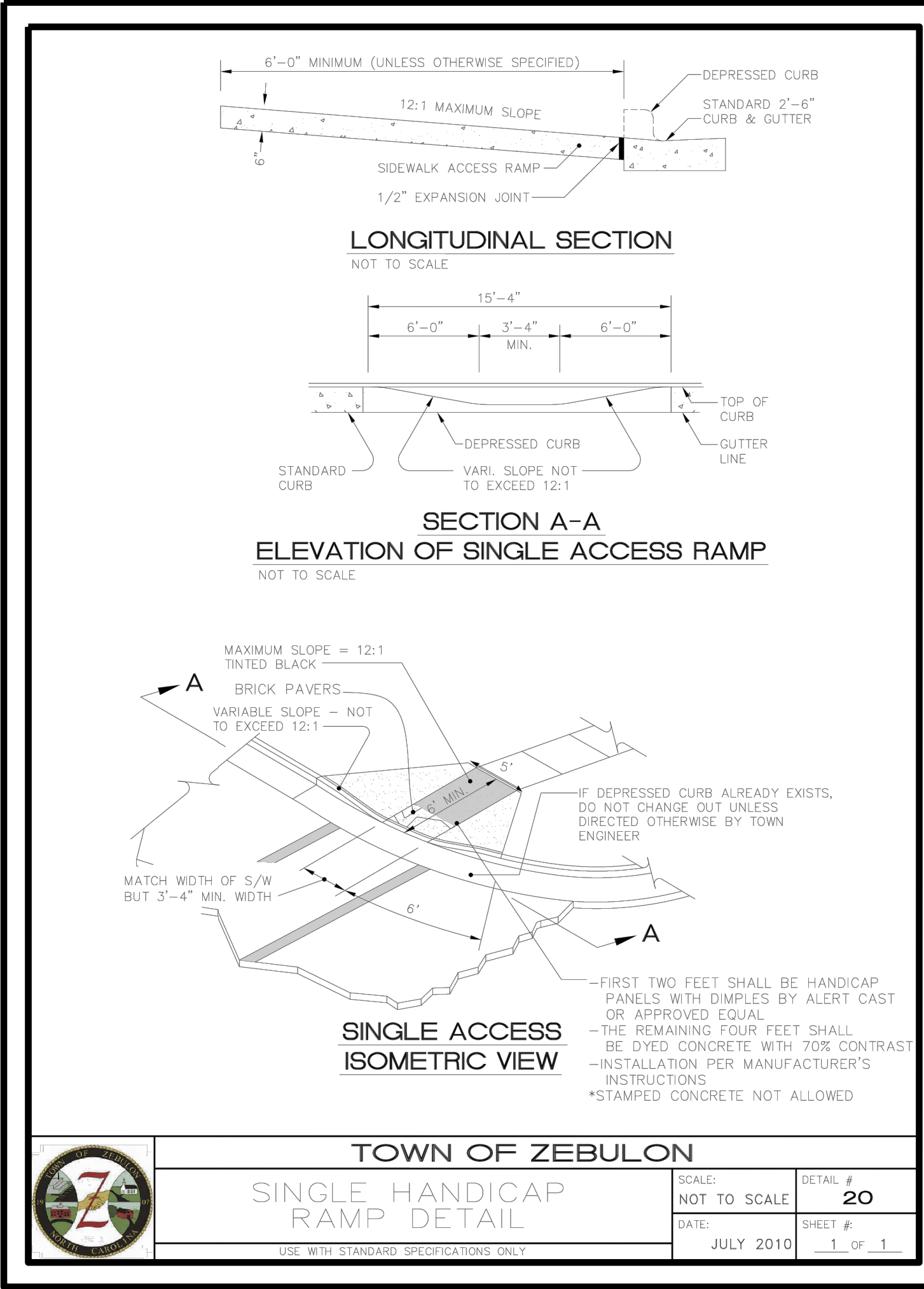
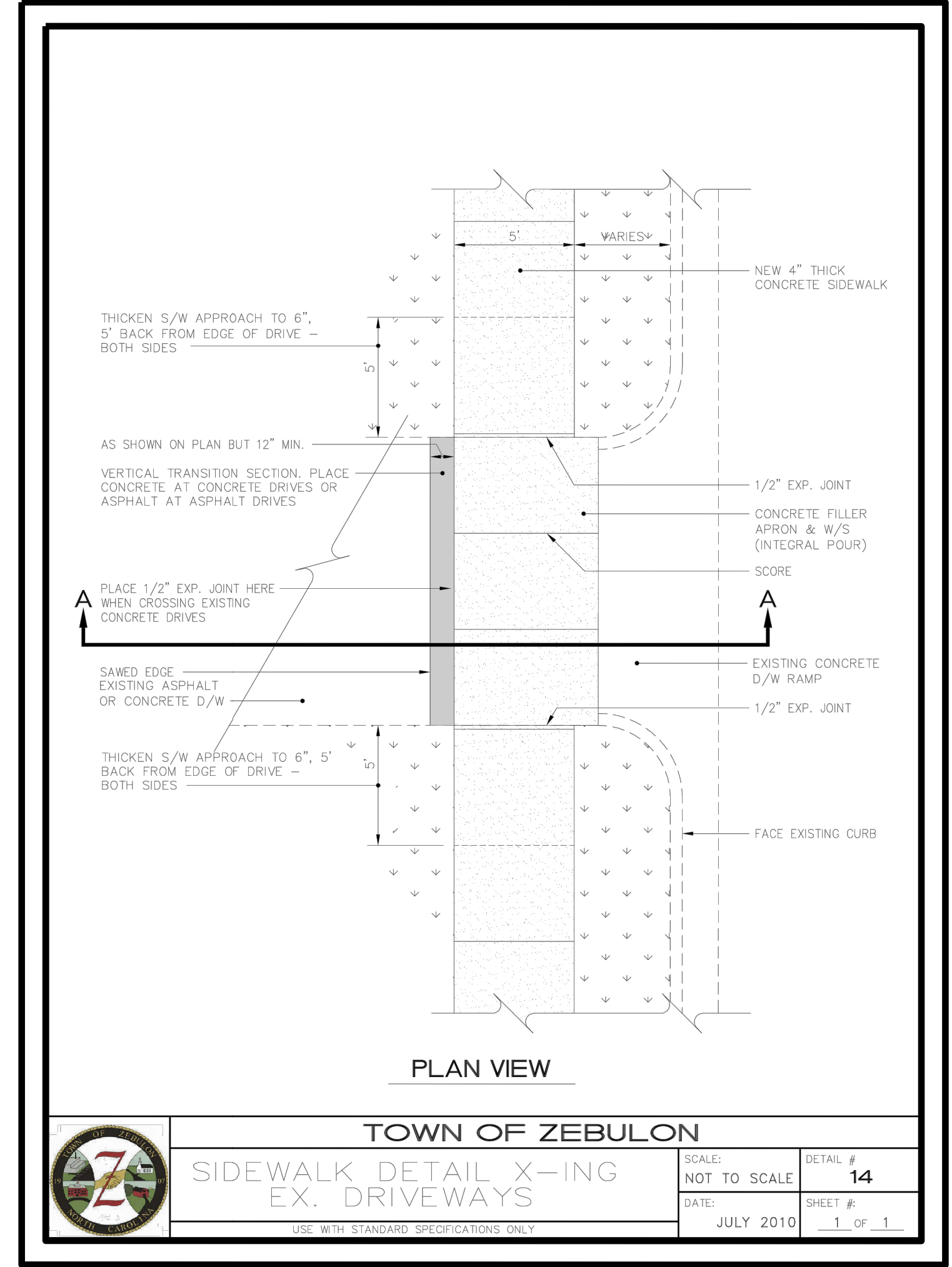
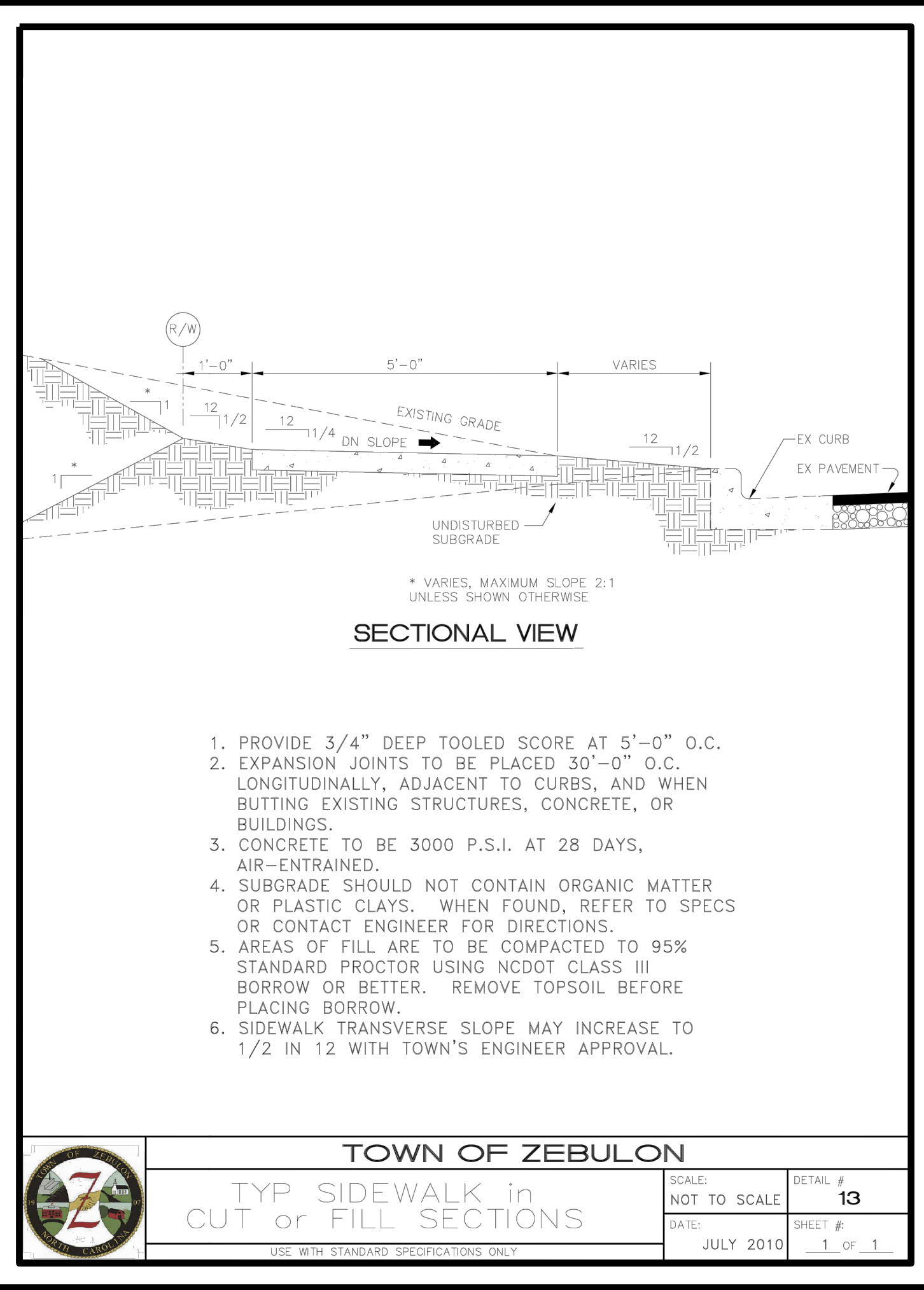
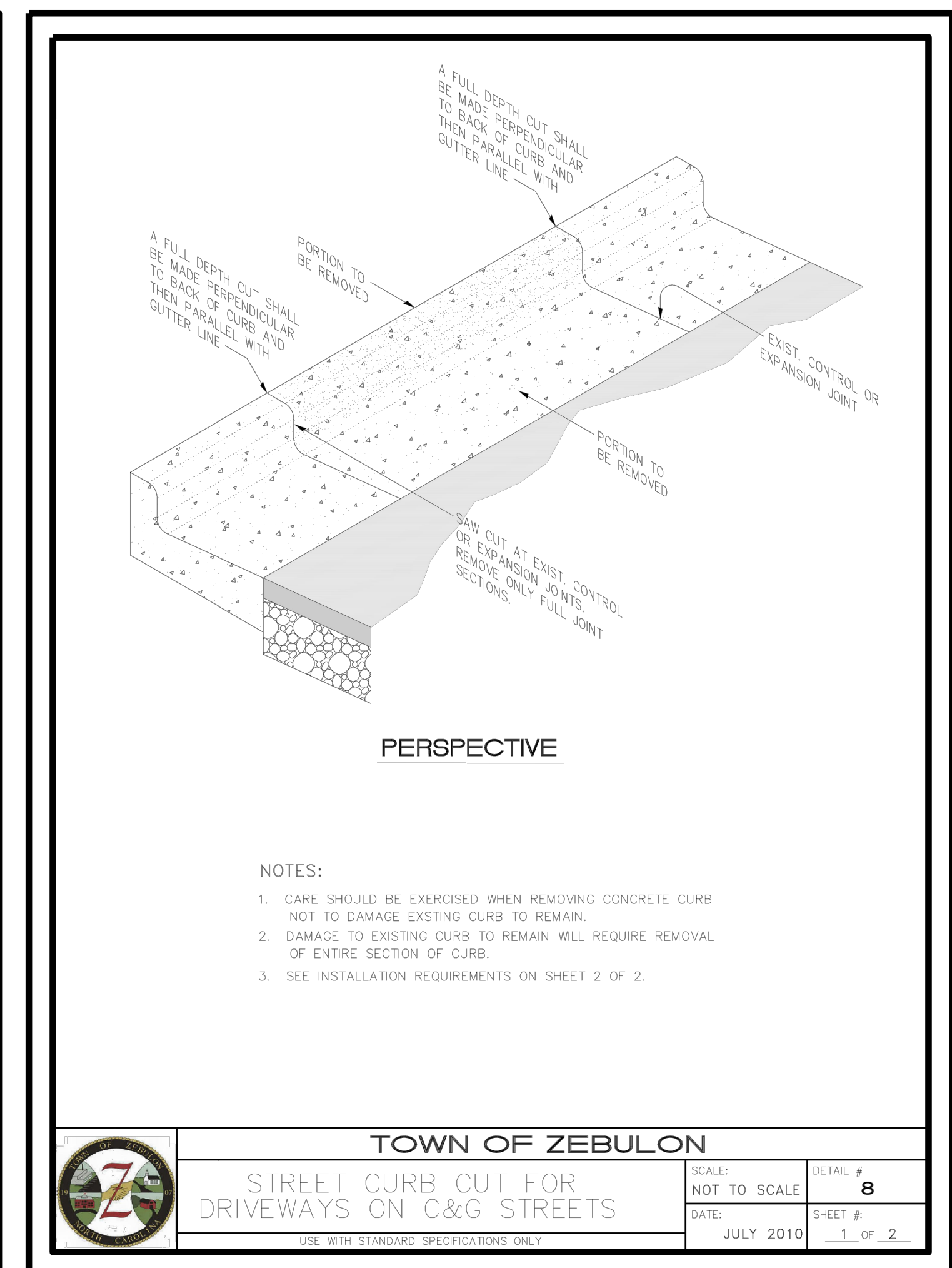
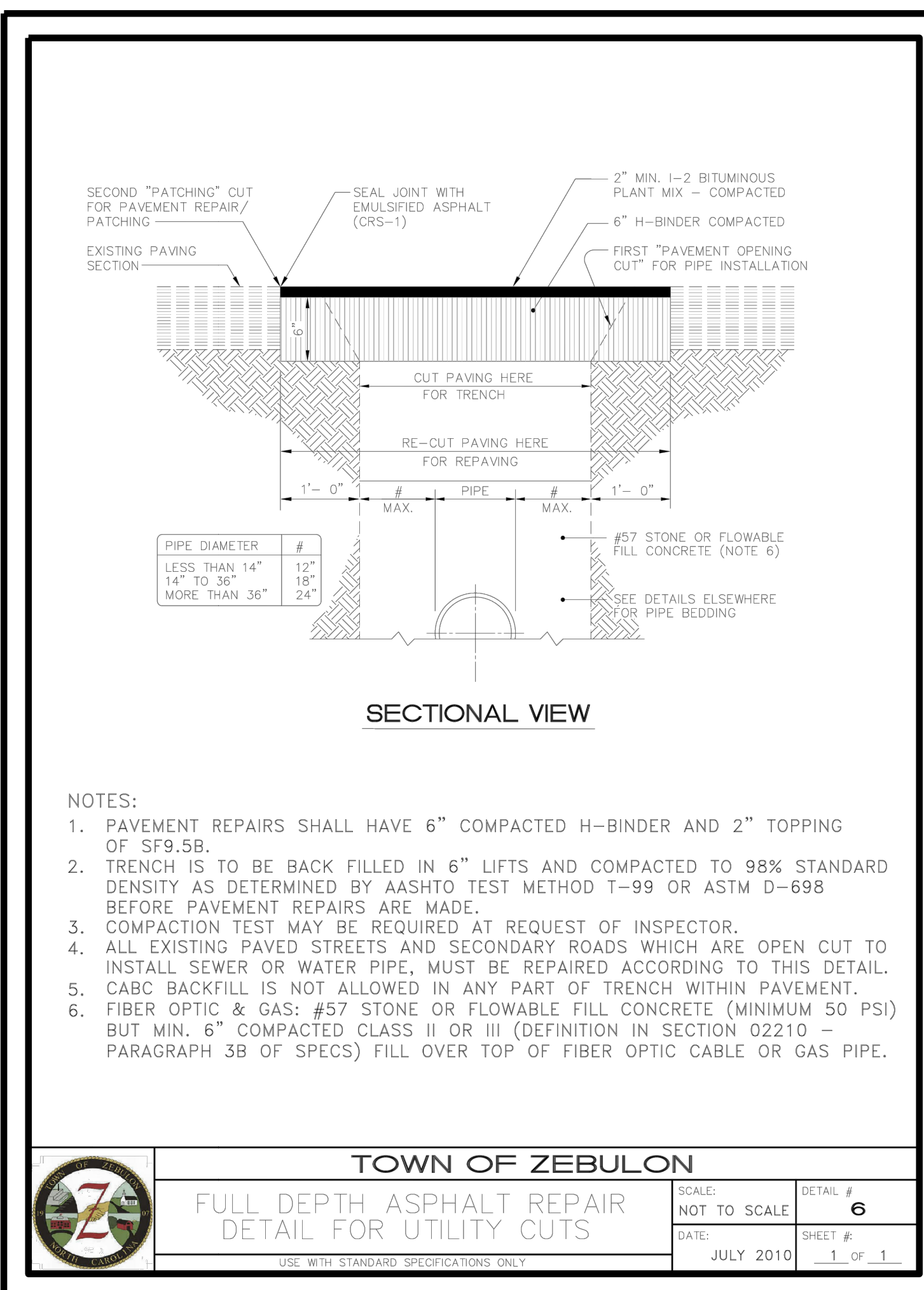
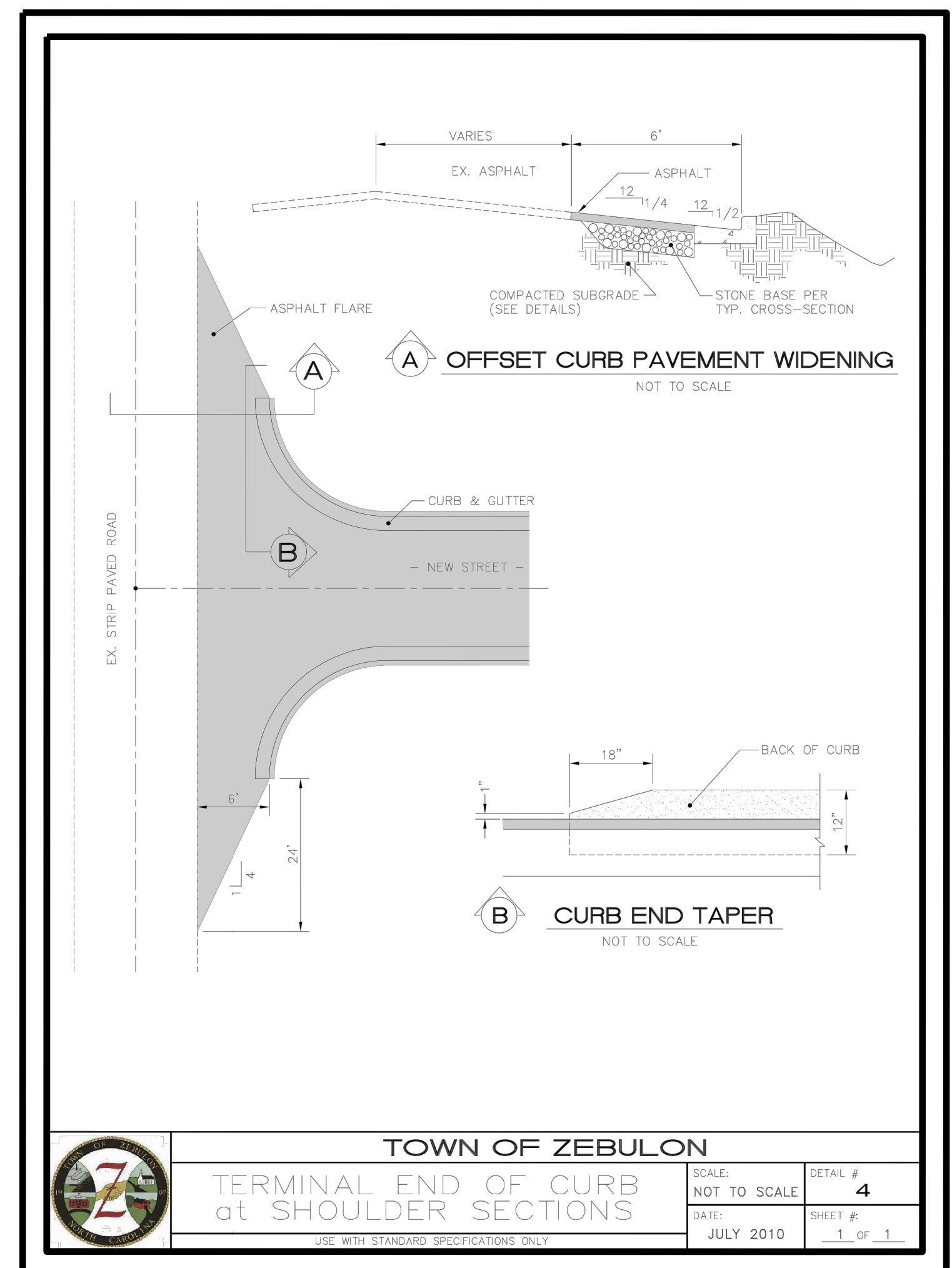
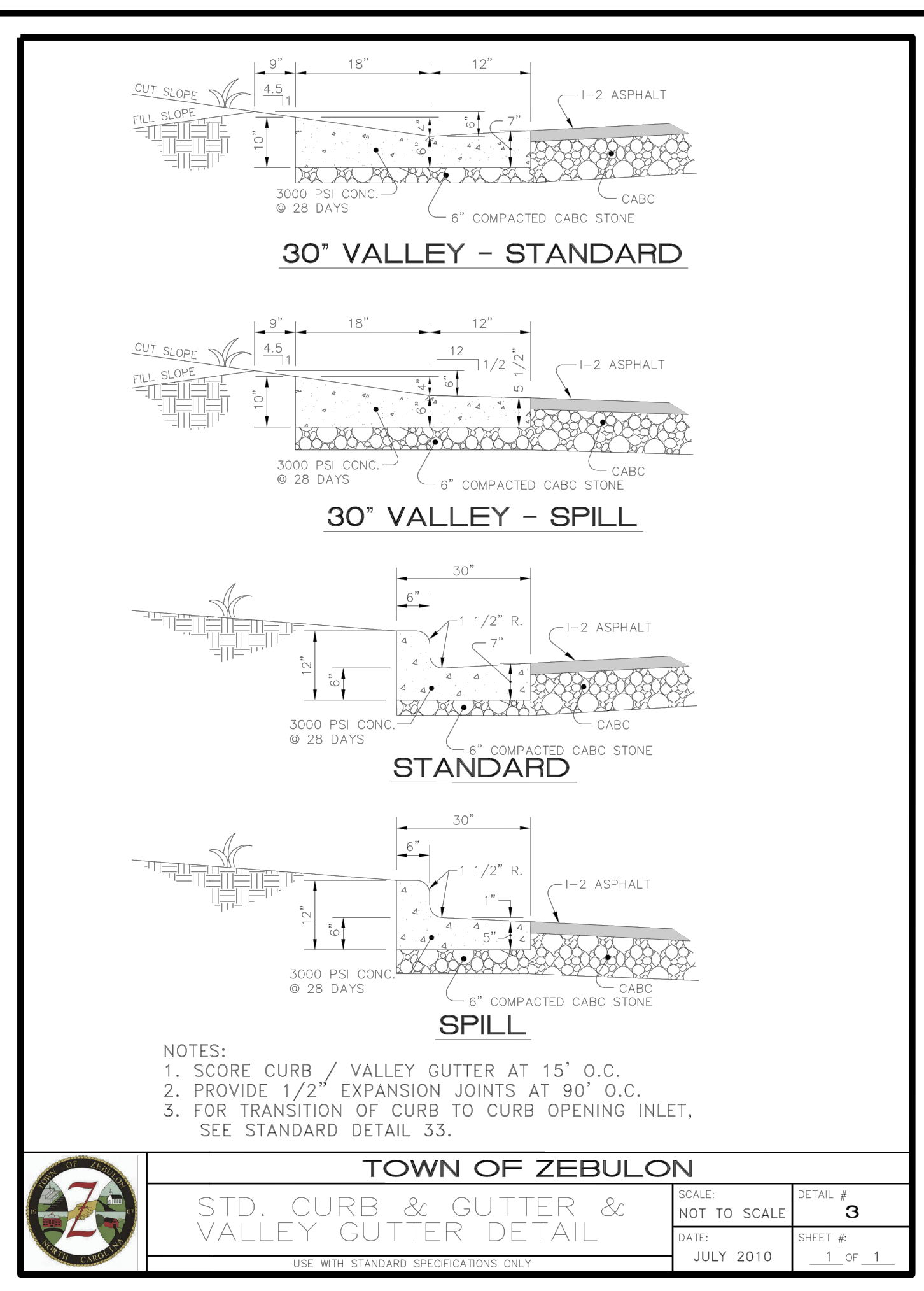
TRUE- ZEBULON-ARENDELL
TOWN OF ZEBULON, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
WATER DETAILS

DRAWING SHEET
D-2.0
10 OF 12

SEAL: PRELIMINARY

STRONG ROCK PROJECT	NOT FOR CONSTRUCTION	SCALE AS SHOWN	DESIGNED BY RLB	DRAWN BY SRG	CHECKED BY JWL
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REVISIONS	DATE	BY



NO.	REVISIONS	DATE	BY

PRELIMINARY

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			DRAWN BY	CHECKED BY	

TRUE-ZEBULON-ARENDELL
 TOWN OF ZEBULON, WAKE COUNTY, NORTH CAROLINA
 CONSTRUCTION PLANS
 SITE DETAILS

DRAWING SHEET
 D-2.1

NO.	REVISIONS	DATE	BY

PRELIMINARY

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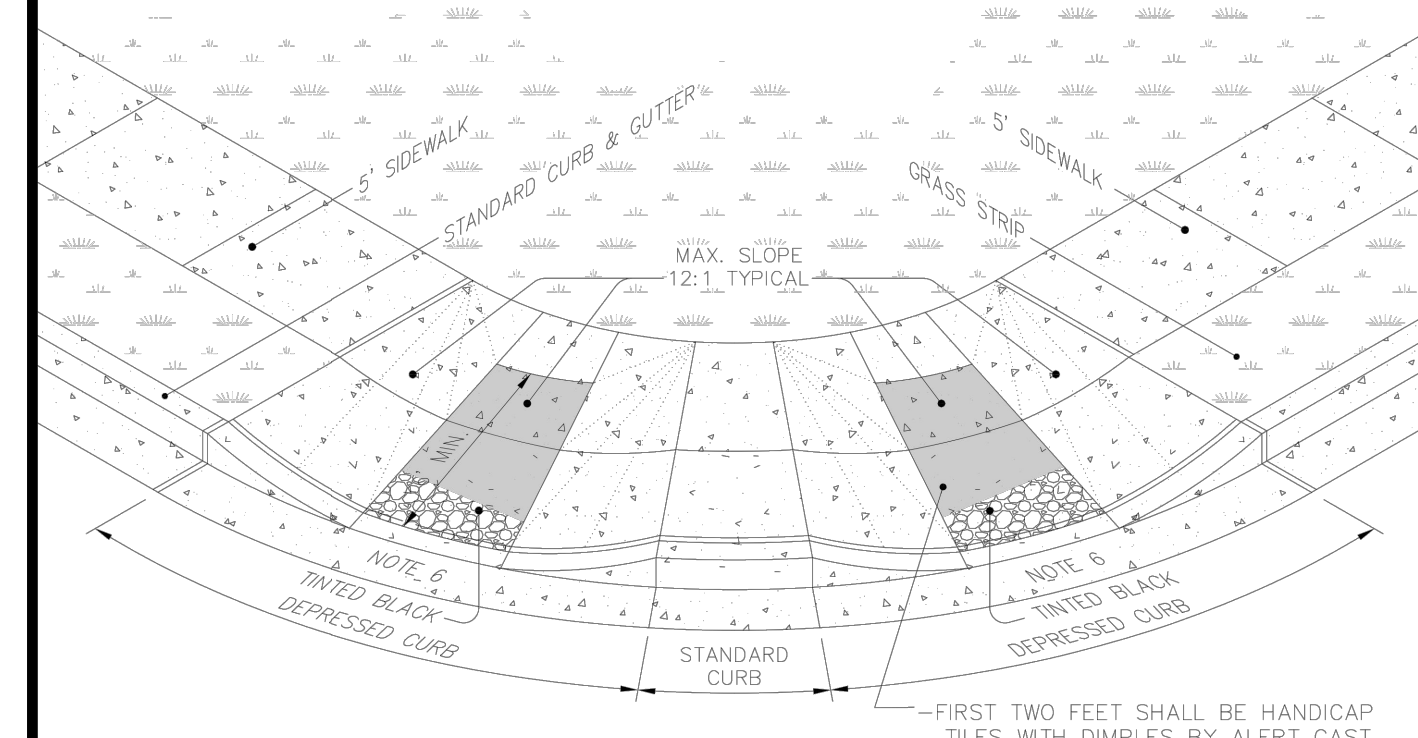
TRUE-ZEBULON-ARENDELL
TOWN OF ZEBULON, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
SITE DETAILS

DRAWING SHEET

D-2.2

12 OF 12

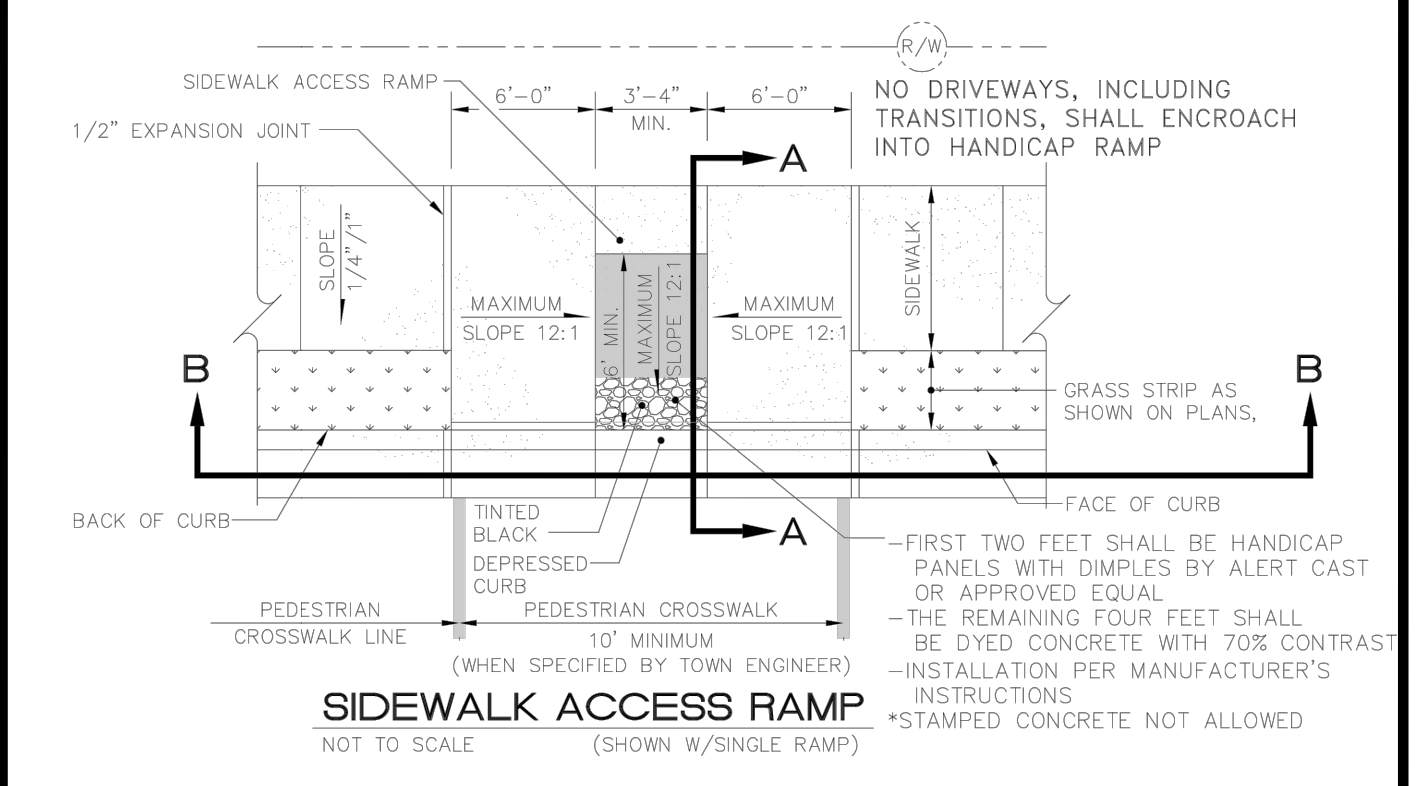
- NOTES:**
1. WHEELCHAIR RAMPS SHALL BE PROVIDED AT LOCATIONS AS SHOWN ON THESE PLANS OR AS DIRECTED BY THE ENGINEER. WHEELCHAIR RAMPS SHALL BE LOCATED AS INDICATED IN THESE DETAILS; HOWEVER, THE LOCATION MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER WHERE EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC. AFFECT PLACEMENT. AT THESE LOCATIONS, NOT LESS THAN 2 FEET OF FULL HEIGHT CURB SHALL BE PLACED BETWEEN ADJACENT RAMPS.
 2. NO SLOPE ON THE WHEELCHAIR RAMP SHALL EXCEED 1 7/12" (12:1) IN RELATIONSHIP TO THE GRADE OF THE STREET.
 3. IN NO CASE SHALL THE WIDTH OF THE WHEELCHAIR RAMP BE LESS THAN 40" (3'-4") HOWEVER, WIDTH MAY EXCEED 40".
 4. USE AIR ENTRAINED 3000 PSI CONCRETE WITH A SIDEWALK FINISH IN ORDER TO OBTAIN A ROUGH NON-SKID TYPE SURFACE.
 5. A 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE CONCRETE WHEELCHAIR RAMP JOINS THE CURB AND AS SHOWN ON STANDARD DRAWINGS.
 6. CURB DEPRESSION MUST GO IN WHETHER OR NOT SIDEWALK IS PLACED.



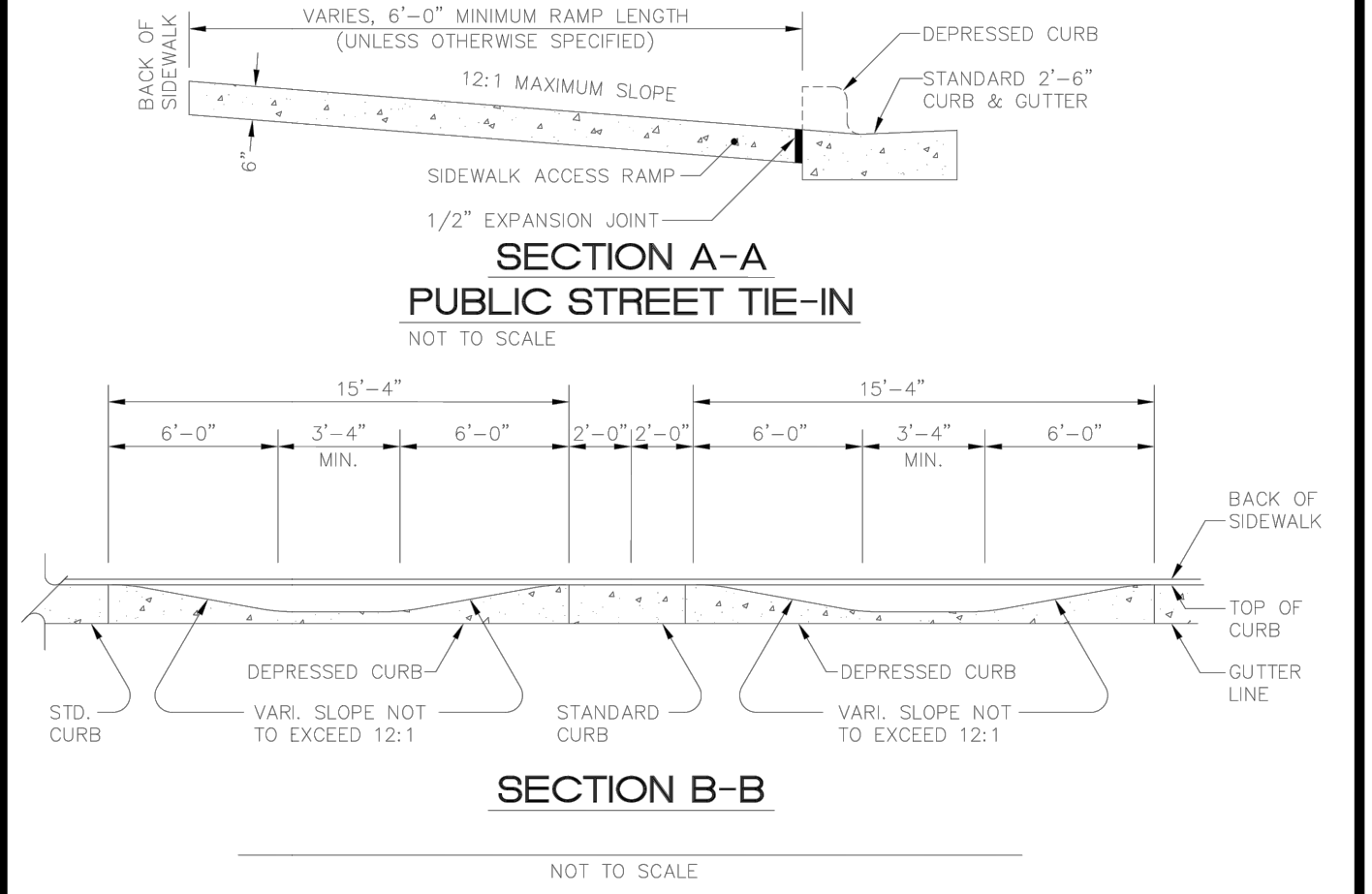
**STANDARD ADA WHEELCHAIR
SIDEWALK ACCESS AT CURB RETURNS**

PERSPECTIVE

	TOWN OF ZEBULON	
	DOUBLE HANDICAP RAMP DETAIL	SCALE: NOT TO SCALE DATE: JULY 2010
	DETAIL # 21	SHEET # 1 OF 2

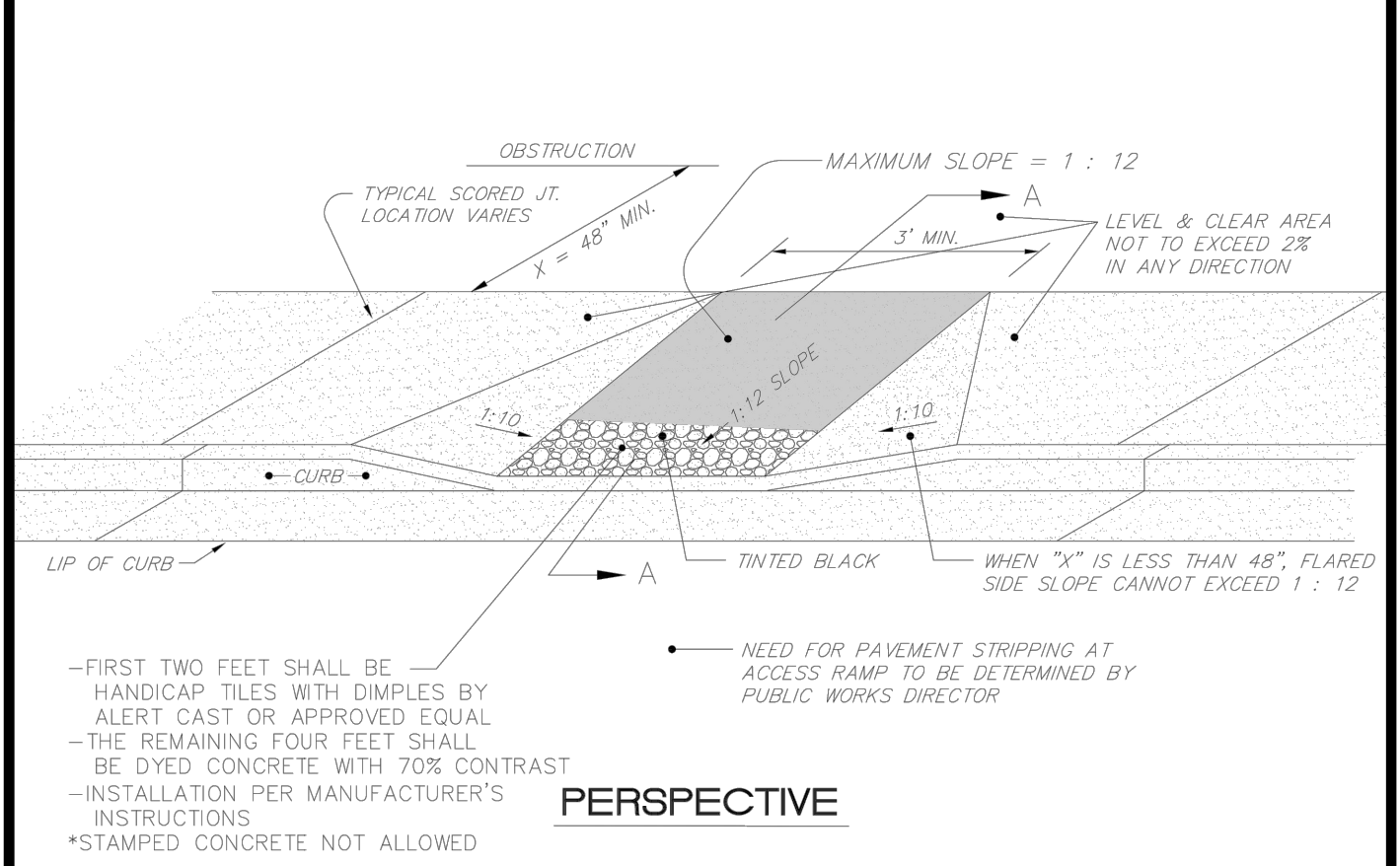


SIDEWALK ACCESS RAMP
(SHOWN W/SINGLE RAMP)

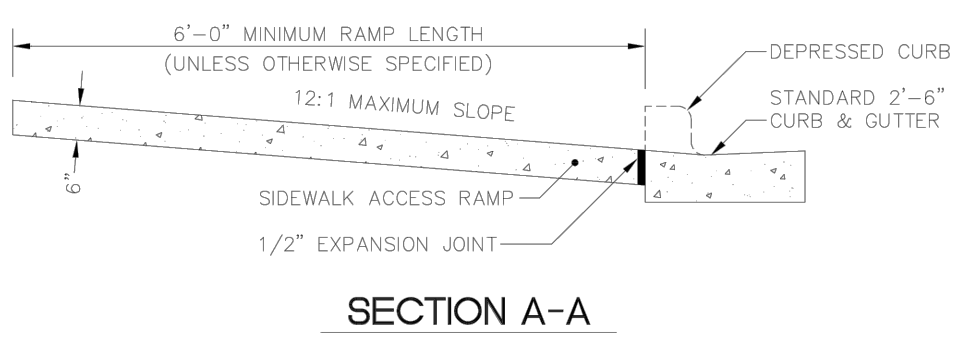


**SECTION A-A
PUBLIC STREET TIE-IN**

	TOWN OF ZEBULON	
	DOUBLE HANDICAP RAMP DETAIL	SCALE: NOT TO SCALE DATE: JULY 2010
	DETAIL # 21	SHEET # 2 OF 2

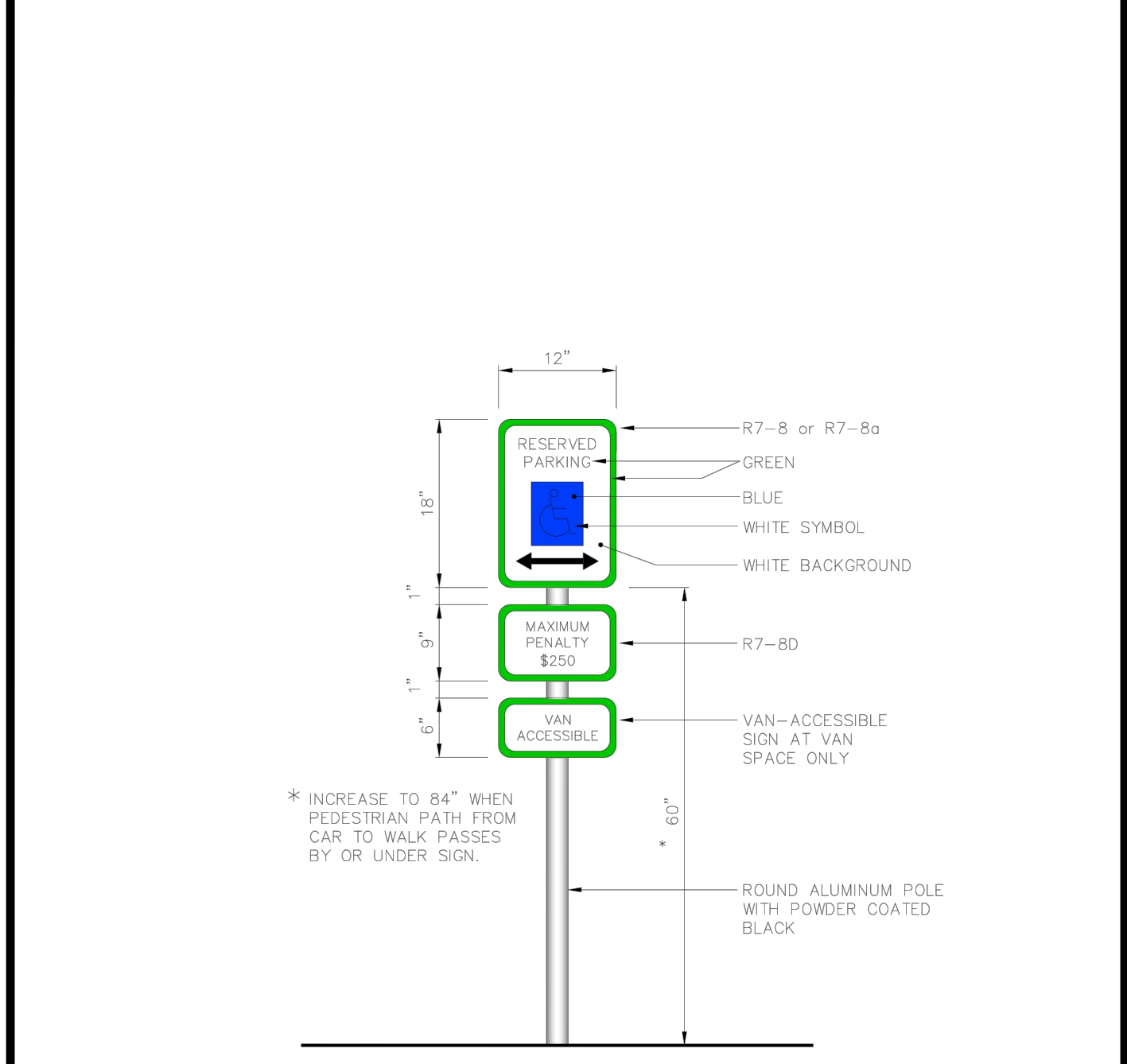


PERSPECTIVE



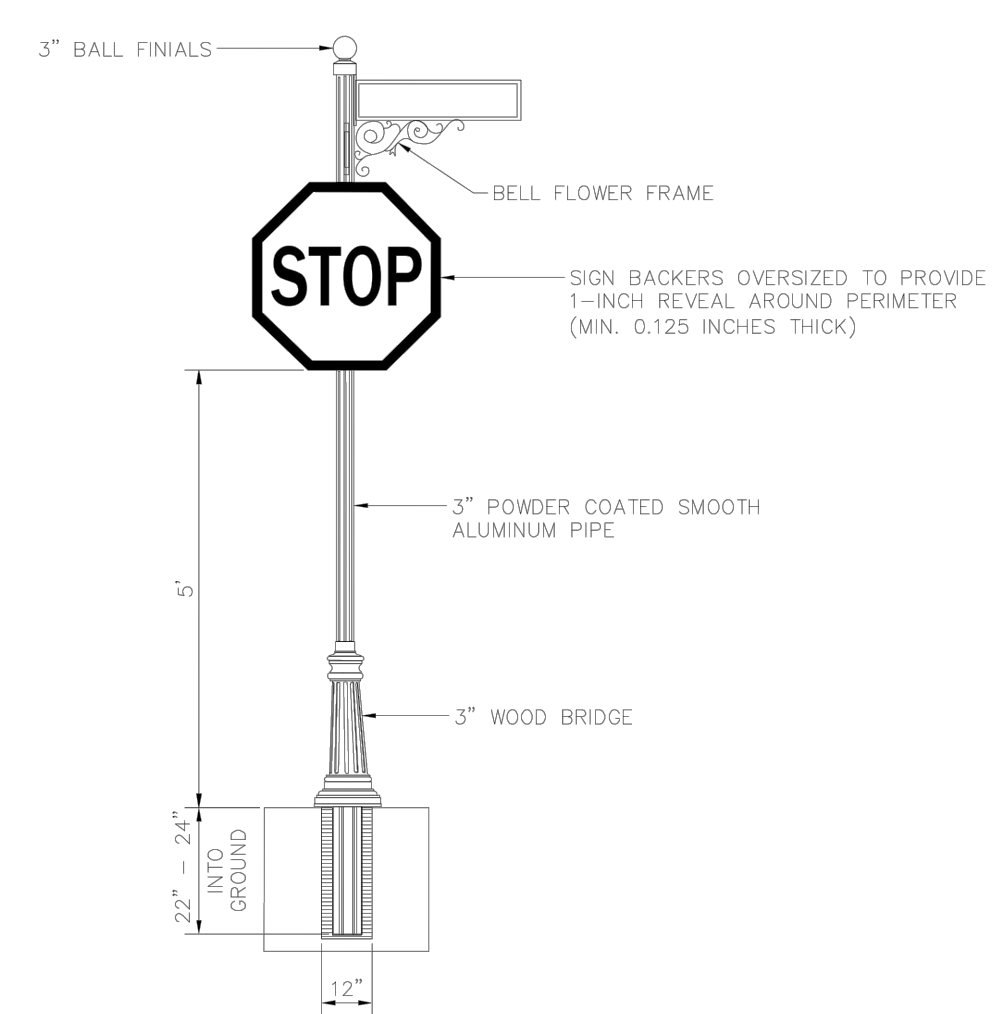
**SECTION A-A
IN-WALK HANDICAP RAMP**

	TOWN OF ZEBULON	
	HANDICAP PARKING STALL DETAIL *	SCALE: NOT TO SCALE DATE: JULY 2010
	DETAIL # 22	SHEET # 1 OF 1



ELEVATIONAL VIEW

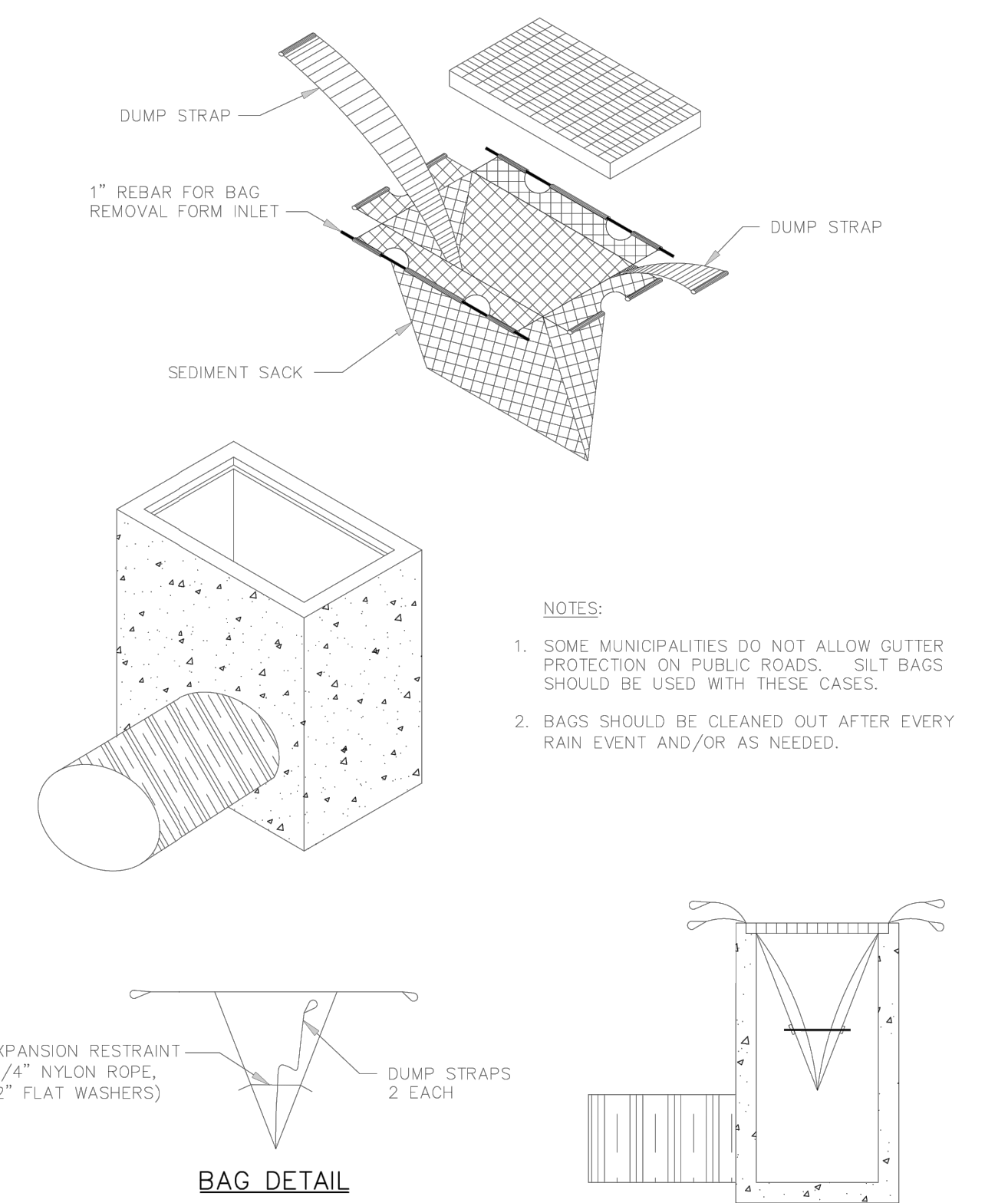
	TOWN OF ZEBULON	
	R7-8 HANDICAP SIGN DETAIL	SCALE: NOT TO SCALE DATE: JULY 2010
	DETAIL # 23	SHEET # 1 OF 1



ELEVATIONAL VIEW

- NOTES:**
1. SIGNS WILL BE CONSTRUCTED FROM QUALITY ALUMINUM AND POWDER COATED WITH GLOSS BLACK POLYESTER TWO COAT PROCESS.
 2. ALL FASTENERS WILL BE STAINLESS STEEL.
 3. STOP SIGNS WILL HAVE A 1/4\"/>

	TOWN OF ZEBULON	
	PREMIUM SIGN INSTALLATION DETAIL	SCALE: NOT TO SCALE DATE: JULY 2010
	DETAIL # 31	SHEET # 1 OF 1



- NOTES:**
1. SOME MUNICIPALITIES DO NOT ALLOW GUTTER PROTECTION ON PUBLIC ROADS. SILT BAGS SHOULD BE USED WITH THESE CASES.
 2. BAGS SHOULD BE CLEANED OUT AFTER EVERY RAIN EVENT AND/OR AS NEEDED.

BAG DETAIL

INSTALLATION DETAIL

	TOWN OF ZEBULON	
	CATCH BASIN - SEDIMENT CONTROL DEVICES	SCALE: NOT TO SCALE DATE: JULY 2010
	DETAIL # 50	SHEET # 1 OF 1