

Administrative Site Plan StorageMax

Town of Zebulon
Wake County, North Carolina

Project 1098359
SUP - 2023 -02



VICINITY MAP
Scale 1" = 300'

SITE DATA:

SITE ADDRESS:	901 PROCTOR STREET, ZEBULON NC
PN:	2706217463
CURRENT USE:	VACANT
PROPOSED USE:	SELF STORAGE FACILITY
SITE AREA (GROSS):	6.50 ac (283,140 sf)
ROW DED. SHEPARD SCHOOL:	0.29 ac (12,756 sf)
ROW DED. PROCTOR:	0.06 ac (2,569 sf)
SITE AREA (NET):	6.15 ac (267,894 sf)
ZONING DISTRICT:	HC (HEAVY COMMERCIAL)
FUTURE LAND USE:	SUBURBAN COMMERCIAL
PROPOSED BUILDING SIZE:	92,000 sf
BUILDING HEIGHT (MAX):	50'
MAX LOT COVERAGE (ALLOWED) - HC:	80% (5.20 ac)
MAX LOT COVERAGE (PROVIDED) - HC:	55% (3.80 ac)
BUILDING SETBACKS:	30' (STREET ROW) 0', 5' (SIDE) 25' (REAR)
PARKING (REQUIRED: 1 SPACE / 5000 sf):	106,000 / 5000 = 21 SPACES
PARKING (PROVIDED) :	21 SPACES
LATITUDE:	35.840297
LONGITUDE:	-78.315683
BIKE PARKING (REQUIRED)	1 per Bldg
BIKE PARKING (PROVIDED)	2
WATERSHED:	MOCCASIN CREEK
RIVER BASIN:	NEUSE
HUC:	03020203
DENUDED AREA ON SITE :	258,310.80 SF (5.93 AC)
DENUDED AREA ROW:	27,878.40 SF (.64 AC)
DENUDED AREA TOTAL :	286,076 SF (6.57 AC)

OPEN SPACE (PASSIVE) SUMMARY

REQUIRED: 3% X 6.5 AC = .19AC
PROVIDED: BIORETENTION AREA WITH PEDESTRAIN ACCESS .72 AC / 6.6 AC = 11%
OPEN AREA AT THE BMP TO COMPLY WITH UDO 5.7.5

PUBLIC IMPROVEMENT QUANTITIES

PHASE NUMBER(S)	PHASE 1
NUMBER OF LOT (S)	1
LOT NUMBERS BY PHASE	1
NUMBER OF UNITS	1
LIVABLE OF UNITS	0
OPEN SPACE (YES/NO)	YES
NUMBER OF OPEN SPACE LOTS	0
PUBLIC WATER (LF)	0
PUBLIC 8" PVC SEWER	0
WATER SERVICE STUBS	1
WATER SERVICE ABANDONED	1
SEWER SERVICE STUBS (NEW)	0
SEWER SERVICE REMOVED	0

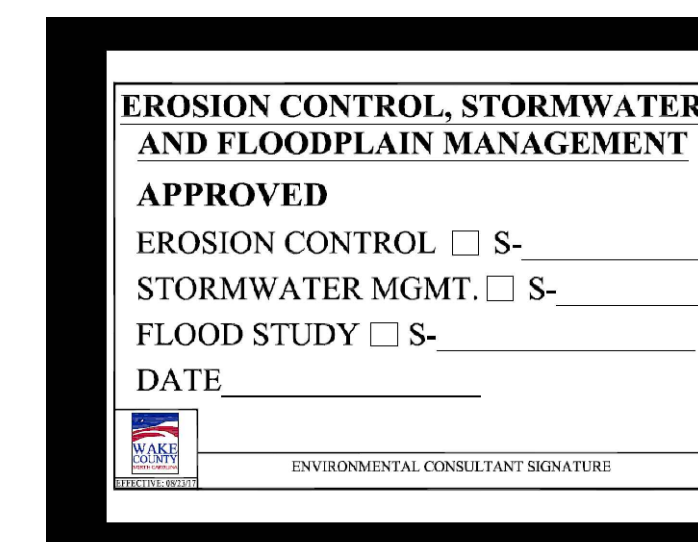
LEGEND

	NEW	EXISTING
DRAINAGE STRUCTURE		
SANITARY SEWER MANHOLE		
SANITARY SEWER CLEANOUT		
WATER VALVE		
FIRE HYDRANT		
OVERHEAD UTILITY LINE	OH	XOH
UNDERGROUND ELECTRIC LINE	E	XE
UNDERGROUND TELECOM/DATA LINE	TD	XTD
FIBER OPTIC CABLE	FO	XFO
GAS LINE	G	XG
STORM DRAINAGE PIPE	SD	XSD
SANITARY SEWER LINE	SS	XSS
WATER LINE	W	XW
SURFACE ELEVATION CONTOUR	400	400
SURFACE SPOT ELEVATION	356.44	356.44
CLEARING LIMIT/TREE LINE		
LIMIT OF DISTURBANCE		
ELECTRICAL TRANSFORMER PAD		
TOWNHOME PARKING (NUMBER)	71	



SHEET	DESCRIPTION
C0	Cover Sheet
C1	Existing Conditions Survey
C2	Existing Conditions & Tree Survey
C3	Site Plan - Overall
C4	Site Plan - Enlarged North
C5	Site Plan - Enlarged South
C6	Grading Plan - Overall
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EC3	Phase 3 - Erosion Control Plan
EC4	Phase 4 - Erosion Control Plan
EC5	Erosion Control Details
EC6	Erosion Control Details
EC7	NCG01 Requirements
	Architectural

ATTENTION CONTRACTORS
The Construction Contractor responsible for the extension of water, sewer, and/or gas, as approved in these plans, is responsible for contacting the Public Works Department at (919) 996-2409, and the Public Utilities Department at (919) 996-6568 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 reinstallation 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.



PROJECT INFORMATION:

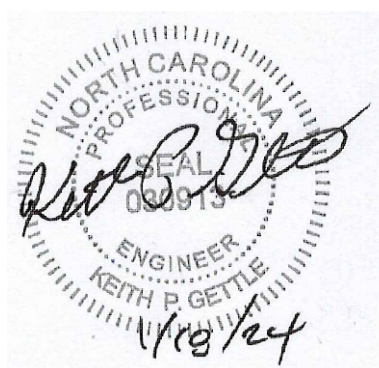
PROJECT:	STORAGE MAX COMMERCIAL
OWNER / DEVELOPER:	SHEPARD SCHOOL, LLC 2700 GRESHAM LAKE RD. RALEIGH, NC 27615
CONTACT:	ALLEN MASSEY (919) 604-0505
EMAIL:	STORIT@AOL.COM
ENGINEER:	KEITH P. GETTLE, PE GETTLE ENGINEERING AND DESIGN, PLLC LICENSE: P-2538 3616 WAXWING CT. WAKE FOREST, NC 27587 (919) 210-3934 KPGETTLE@GMAIL.COM
PHONE:	
EMAIL:	
SURVEYOR:	CAWTHORNE MOSS AND PANCIERA P.C. 333 SOUTH WHITE STREET WAKE FOREST NORTH CAROLINA 27588 (919) 556-3148
PHONE:	
OVERLAY:	NONE
FLOOD ZONE:	NO FLOOD HAZARDS AREAS PER FEMA FIRM 3720270600J

GENERAL NOTES

- BOUNDARY AND TOPO INFORMATION TAKEN FROM CAWTHORNE, MOSS & PANCIERA, P.C., SURVEYING, TITLED TOPOGRAPHIC SURVEY FOR STORAGE MAX LLC, DATED DECEMBER 22, 2022.
- CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES & SHALL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM HIS ACTIVITIES. CALL UTILITY LOCATOR SERVICE AT LEAST 48 HOURS PRIOR TO DIGGING.
- ALL CONSTRUCTION WILL BE IN STRICT CONFORMANCE TO THE TOWN OF ZEBULON, CITY OF RALEIGH, WAKE COUNTY AND NCDOT STANDARDS AND SPECIFICATIONS.
- NO CHANGES MAY BE MADE TO THE APPROVED DRAWINGS WITHOUT WRITTEN PERMISSION FROM THE ISSUING AUTHORITY.
- THE PARCEL IS NOT LOCATED WITHIN A FLOOD ZONE AS NOTED PER FEMA MAP 372020600J, DATED MAY 2, 2006.
- BUILDING AND ENTRANCE SIGNAGE TO COMPLY WITH THE TOWN OF ZEBULON UDO SECTION 5.11.
- EMERGENCY COMMUNICATION WITHIN THE BUILDINGS, AND ON SITE, SHALL BE EVALUATED DURING DETAILED SITE PLAN DEVELOPMENT; DETERMINATION IF BIDIRECTIONAL REPEATERS ARE REQUIRED.
- ROAD WORK ON SHEPARD AND PROCTOR STREETS TO BE CONSISTENT WITH THE TRANSPORTATION PLAN IMPROVEMENTS. SHEPARD IS PROPOSED TO HAVE A 4 LANE DIVIDED ROADWAY, AND PROCTOR ST. TO HAVE A 2 LANE DIVIDED ROADWAY. THE PROJECT IS RESPONSIBLE FOR 1/2 OF ROADWAY IMPROVEMENTS AND THE CENTER MEDIAN WILL BE CONSIDERED FEE-IN-LEU.
- SOLID WASTE DISPOSAL TO BE PROVIDED BY A ROLL TYPE REFUSE BIN AND STORED AT THE OFFICE BUILDING. THE CONTAINER TO BE ROLLED OUT TO PROCTOR STREET ON SCHEDULED DATES OF WASTE PICKUP.

Gettle Engineering and Design, PLLC
 3616 Waxwing Court,
 Wake Forest, North Carolina 27587
 (919) 210-3934 Firm License P-2538

NO	DATE	BY	REVISION/DESCRIPTION
1	01-05-2024	Per Town Comment	
2	DATE	COMMENT	
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4	DATE	COMMENT	
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7	DATE	COMMENT	
8	DATE	COMMENT	
NO	DATE	BY	



Cover Sheet
StorageMax (1098359)
901 Proctor Street
 Zebulon, Wake County, North Carolina

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION
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Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh 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 Raleigh Development Approval _____
City of Raleigh Review Officer _____

Project No. 23001
Dwg No. **C0**

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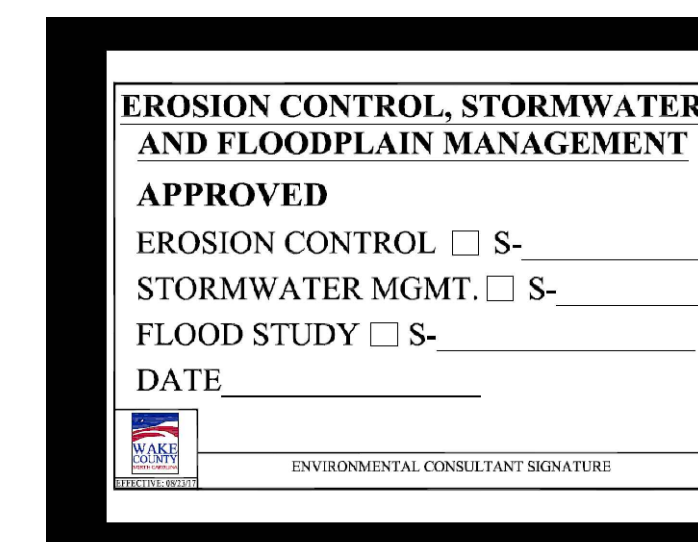
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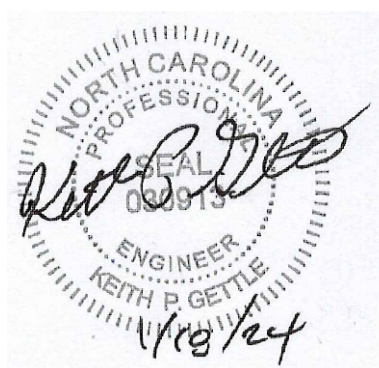
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City of Raleigh Review Officer _____

Project No. 23001
Dwg No. **C0**

I, L. JORDAN PARKER, JR. CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL GLOBAL POSITIONING SYSTEM (GPS) SURVEY MADE UNDER MY SUPERVISION AND THE FOLLOWING INFORMATION WAS USED TO PERFORM THE SURVEY: SURVEY THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION SHOWN IN THE REFERENCES, THAT THE RATIO OF PRECISION OR POSITIONAL ACCURACY AS CALCULATED IS GREATER THAN 1:10000; THIS SURVEY IS NOT TO BE RECORDED WITHOUT THE WRITTEN CONSENT OF THE SURVEYOR.

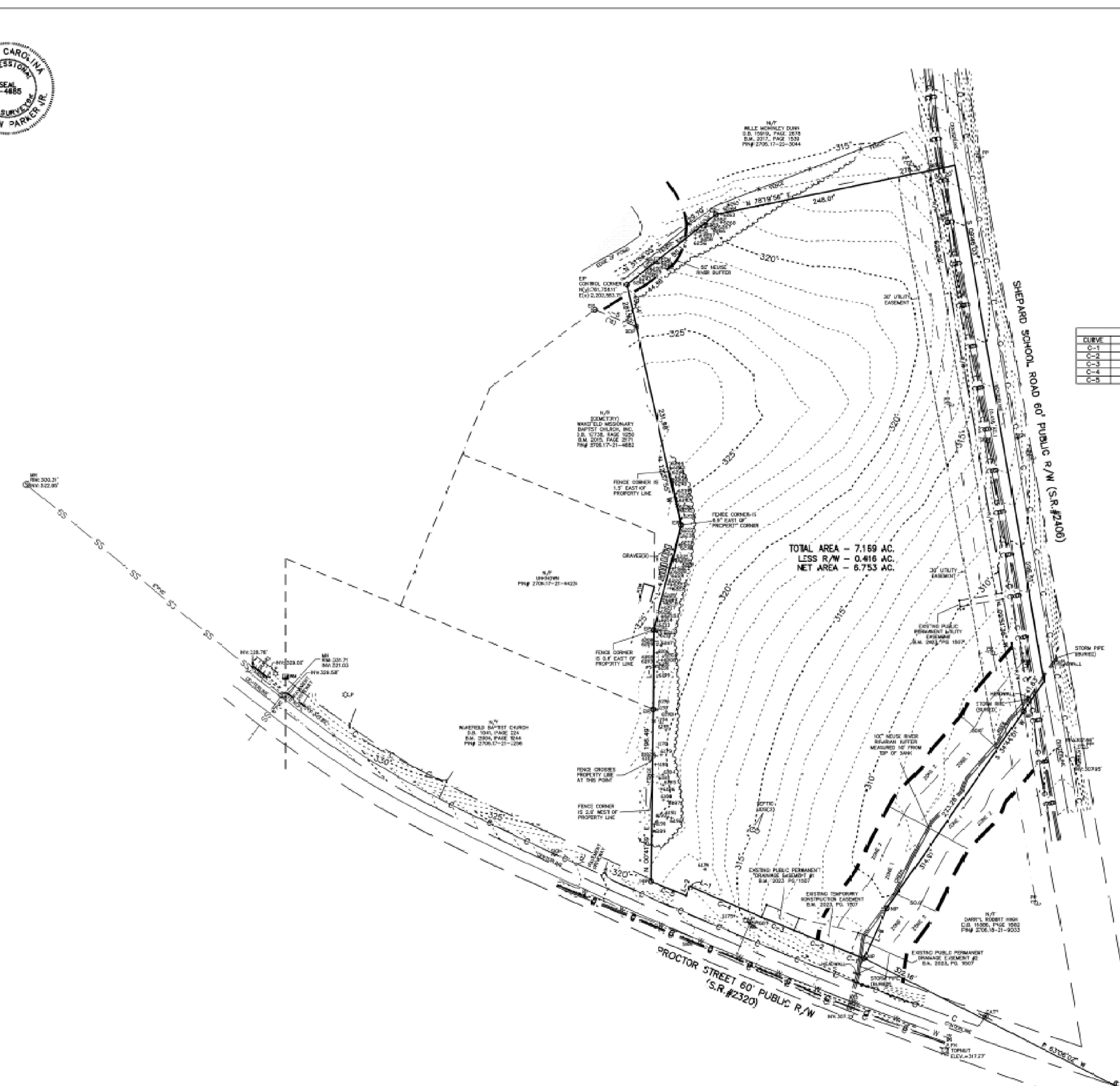


CLASS OF SURVEY: AA
 POSITIONAL ACCURACY: HORIZONTAL 0.005 US SURVEY FEET
 TYPE OF GPS FIELD PROCEDURE: REAL TIME KINEMATICS
 NETWORK (VRS):
 DATES OF SURVEY:
 DATUM/EPOCH: NAD 83/2011.1, 2010.00
 PUBLISHED/PIKED CONTROL USE: BULLOCK HOT CORRS APP
 LONG 78°14'44.39448"
 LAT 35°45'19.50795"
 COMBINED GRID FACTORS: 1.500084156820E
 UNITS: US SURVEY FOOT

THIS 13TH DAY OF DECEMBER A.D. 2023.

Surveyed by
 L. Jordan Parker, Jr.
 PROFESSIONAL LAND SURVEYOR LICENSE NUMBER: L-4686

Point	Northings	Eastings	Description
6174	61085.056	320222.518	SWEET GUM-26
6175	61031.959	320255.927	SWEET GUM-25
6176	61224.558	320258.467	OAK-38
6179	61215.255	320273.439	BRADFORD PEAR-5
6180	61264.653	320266.320	OAK-13
6181	61214.327	320258.990	CHERRY-9
6182	61216.122	320254.748	CEJAR-8
6183	61191.027	320266.571	CEJAR-9
6184	61193.261	320274.566	CEJAR-10
6185	61181.352	320275.734	PRIVET-193
6186	61176.679	320273.424	PRIVET-192
6187	61183.078	320261.026	SWEET GUM-11
6188	61184.074	320275.540	SWEET GUM-10
6189	61128.673	320263.736	CHINA BERRY-1
6190	61126.729	320264.049	SWEET GUM-8B2
6191	61143.027	320261.887	BRADFORD PEAR-7
6192	61143.672	320255.004	CHINA BERRY-2
6193	61143.183	320250.059	CHINA BERRY-3
6194	61232.123	320272.061	CHERRY-4
6195	61232.123	320272.061	CHINA BERRY-4A
6196	61272.803	320270.594	ELM-4
6197	61267.286	320267.269	OAK-7
6198	61265.382	320275.248	CHINA BERRY-11
6199	61317.252	320269.247	SWEET GUM-8B2
6200	61320.654	320259.341	OAK-7
6202	61327.724	320262.191	CHERRY-6
6203	61314.070	320270.376	CHINA BERRY-5
6204	61327.806	320267.451	BRADFORD PEAR-10
6205	61323.620	320274.594	PRIVET-4
6206	61332.123	320267.391	OAK-4
6207	61340.449	320262.610	OAK-11
6208	61345.444	320269.132	OAK-11
6209	61343.307	320266.635	CEJAR-4
6210	61333.128	320270.671	CEJAR-4
6211	61355.965	320271.562	SWEET GUM-10
6212	61355.450	320273.504	OAK-8
6213	61361.823	320269.043	CEJAR-5
6214	61367.997	320272.061	OAK-11
6215	61373.575	320265.189	OAK-2
6216	61373.575	320273.573	BRADFORD PEAR-8
6217	61383.379	320274.540	CEJAR-8
6218	61388.368	320277.079	CHERRY-7
6219	61390.696	320276.970	CEJAR-8
6220	61383.674	320276.908	CEJAR-9
6221	61405.925	320284.009	SWEET GUM-13B3
6222	61410.422	320281.325	CHERRY-10
6223	61409.774	320284.910	OAK-11
6224	61423.846	320284.896	CHERRY-4
6225	61438.779	320289.990	CHERRY-8
6226	61435.966	320290.244	SWEET GUM-10
6227	61429.374	320293.024	SWEET GUM-10
6228	61428.131	320286.595	SWEET GUM-10
6229	61435.489	320293.321	BRADFORD PEAR-4
6230	61453.826	320293.184	OAK-2
6231	61454.309	320294.369	OAK-2
6232	61482.670	320295.652	OAK-18
6233	61487.172	320294.529	OAK-7
6234	61485.052	320296.549	SWEET GUM-10
6235	61493.052	320293.069	SWEET GUM-10
6236	61484.027	320292.509	CEJAR-7
6237	61503.829	320290.008	CEJAR-7
6238	61507.456	320290.338	CHERRY-5
6239	61512.253	320290.286	SWEET GUM-10
6240	61525.066	320287.000	OAK-18
6241	61527.229	320286.513	SWEET GUM-10
6242	61526.125	320286.475	CEJAR-6
6243	61540.840	320289.624	BRADFORD PEAR-7
6244	61542.120	320283.434	OAK-8
6245	61534.401	320283.539	SWEET GUM-10
6246	61758.927	320244.218	OAK-2
6247	61760.783	320253.404	OAK-7
6248	61764.823	320255.858	OAK-4
6249	61764.824	320258.175	SWEET GUM-10
6250	61768.523	320258.236	OAK-2
6251	61775.254	320260.541	OAK-18
6252	61775.351	320268.119	CHINA BERRY-102
6253	61774.228	320264.391	OAK-4
6254	61831.980	320250.636	OAK-2
6255	61828.225	320281.799	CHINA BERRY-1
6256	61803.777	320281.907	CHINA BERRY-13
6257	61837.185	320258.437	CHINA BERRY-1
6258	61800.771	320281.515	CHINA BERRY-1
6259	61816.421	320283.170	OAK-11
6260	61819.126	320222.737	OAK-8
6261	61816.122	320219.452	OAK-1
6262	61822.886	320237.380	OAK-11
6263	61831.630	320284.175	CHINA BERRY-13B3
6264	61837.123	320243.970	CHINA BERRY-13B3
6265	61839.450	320247.234	CHINA BERRY-13B3
6266	61814.889	320231.253	CHINA BERRY-10
6267	61816.320	320234.425	CHINA BERRY-1
6268	61822.055	320241.536	CHINA BERRY-1



LIVE TABLE

LINE	BEARING	DISTANCE
L-1	N 88°24'56" W	1.92
L-2	S 23°32'24" W	1.59
L-3	N 00°27'52" E	94.87
L-4	N 14°32'48" E	120.39
L-5	S 67°39'28" E	5.00
L-6	S 24°22'18" W	61.80

CURVE TABLE

CURVE	ARC LENGTH	RADIUS	CHORD LENGTH	CHORD BEARING
C-1	16.26	5360.00	16.26	N 89°34'58" W
C-2	69.48	5360.00	69.48	N 87°07'33" W
C-3	39.70	5360.00	39.70	N 87°32'32" W
C-4	86.87	5360.00	86.87	N 84°52'12" W
C-5	42.85	2223.33	42.85	N 87°45'25" W

- LEGEND:
- EP - EXISTING IRON PIPE
 - ES - EXISTING IRON BAR
 - BEF - BENT IRON PIPE
 - BEI - BENT IRON BAR
 - CB - CONCRETE CURB
 - CM - CONCRETE MONUMENT
 - CP - EXISTING PE W/AL
 - CP - SET PE W/AL
 - NP - NEW IRON PIPE SET
 - R/W - RIGHT OF WAY
 - CAV - CABLE TV BOX
 - EL - EXISTING ELEC
 - FE - TELEPHONE FEEDLINE
 - PP - PRIMER POLE
 - OL - OVERHEAD LINE
 - LP - LIGHT POLE
 - WM - WATER METER
 - VM - WATER VALVE
 - OC - SEWER CLEAN-OUT
 - CS - CURBSTONE
 - CB - CATCH BASIN
 - M - MANHOLE
 - FB - FIRE HYDRANT
 - RM - REMAINING WALL
 - D.B.T. - D.B.T. (FIELD LOCATED)

- NOTES:
- THIS PLAT SUBJECT TO ALL EASEMENTS, AGREEMENTS, AND RIGHTS OF WAY OF RECORD PRIOR TO THE DATE OF THIS PLAT.
 - UNDERGROUND UTILITIES HAVE BEEN MARKED OR LOCATED FOR THIS PLAT BY GC MAPPING SERVICE, INC.
 - ALL BEARINGS AND DISTANCES ARE HORIZONTAL (GROUNDED) MEASUREMENTS.
 - ALL ELEVATIONS ARE BASED ON NAVD 88.
 - ALL CONTOURS ARE 1' INTERVALS HIGHLIGHTED EVERY 5'.
 - THERE IS NO MONUMENT WITHIN 2000' OF THIS PROPERTY.
 - NORTH ROTATION WAS OBTAINED VIA NC-VRS.

LINE TYPE LEGEND

---	PROPERTY LINE - LINE SURVEYED
---	RIGHT-OF-WAY
---	ADJOINING LINE - LINE NOT SURVEYED
---	OVERHEAD LINE
---	BUILDING-SETBACK
---	SEWER
---	FOOD HILLARD SOILS
---	ELECTRIC LINE
---	GAS LINE
---	WATER LINE
---	SEWER LINE
---	COMMUNICATION
---	TRAILING

REVISION BOX

NO.	DATE	DESCRIPTION
1	2/6/23	ADDED MM LOCATION AND REVISED UTILITY LINE ALONG SHEPARD SCHOOL RD
2	12/14/23	ADDED POND BUFFER/BUFFER ZONES AND ITEMS FROM B.M. 2023, PG. 1507, OWNER UPDATE

TOPOGRAPHIC SURVEY FOR
STORAGE MAX
 901 PROCTOR STREET
 OWNER: SHEPARD SCHOOL, LLC
 REF: D.B. 19275, PAGE 2208
 TOWN OF ZEBULON
 LITTLE RIVER TOWNSHIP
 WAKE COUNTY, NORTH CAROLINA

SCALE 1"=60'
 DECEMBER 21, 2022
 ZONED HC
 PIN #2706.18-21-7463

Gettle Engineering and Design, PLLC
 3616 Waxwing Court,
 Wake Forest, North Carolina 27587
 (919) 210-3934 Firm License P-2538

NO.	DATE	BY	REVISION DESCRIPTION
1	01-05-2024	Per Town Comment	
2		COMMENT	
3		COMMENT	
4		COMMENT	
5		COMMENT	
6		COMMENT	
8		COMMENT	

TREE SPECIES & SIZE(IN) TABLE			
Point	Northing	Easting	Description
6174	761085.096	2202622.318	SWEET GUM-26
6175	761031.969	2202655.727	SWEET GUM-22
6178	761224.598	2202568.487	OAK-8
6179	761215.696	2202574.439	BRADFORD PEAR-5
6180	761204.663	2202566.320	OAK-13
6181	761214.357	2202566.790	CHERRY-9
6182	761216.192	2202564.746	CEDAR-8
6183	761191.087	2202568.571	CEDAR-8
6184	761193.251	2202574.966	CEDAR-10
6185	761181.572	2202575.734	PRIVET-4X3
6186	761176.699	2202573.424	PRIVET-4
6187	761163.074	2202581.026	SWEET GUM-7
6188	761164.004	2202575.940	SWEET GUM-9
6189	761128.633	2202563.736	CHINABERRY-6
6190	761136.190	2202564.997	SWEET GUM-8X2
6191	761145.027	2202581.485	BRADFORD PEAR-7
6192	761143.632	2202585.004	CHINABERRY-8
6193	761143.133	2202580.059	CHINABERRY-4
6194	761252.133	2202572.261	CHERRY-4
6195	761243.993	2202578.908	CHINABERRY-4X2
6196	761272.803	2202570.394	ELM-4
6197	761267.266	2202567.289	OAK-7
6198	761265.382	2202575.248	CHINABERRY-6
6199	761268.967	2202569.211	OAK-21
6200	761317.252	2202569.247	SWEET GUM-8X2
6201	761320.654	2202569.341	OAK-7
6202	761327.774	2202569.191	CHERRY-6
6203	761324.010	2202570.176	CHERRY-5
6204	761327.806	2202575.451	BRADFORD PEAR-10
6205	761323.584	2202574.384	PINE-4
6206	761332.163	2202567.391	OAK-4
6207	761340.449	2202572.910	OAK-11
6208	761345.444	2202569.132	OAK-11
6209	761343.307	2202569.635	CEDAR-4
6210	761373.558	2202571.611	CEDAR-4
6211	761355.945	2202568.262	SWEET GUM-9
6212	761355.480	2202573.304	OAK-8
6213	761361.833	2202569.043	CEDAR-5
6214	761367.997	2202572.061	OAK-11
6215	761373.558	2202575.169	OAK-5
6216	761373.510	2202573.973	BRADFORD PEAR-8
6217	761383.379	2202574.540	CEDAR-8
6218	761388.348	2202577.079	CHERRY-7
6219	761390.696	2202575.970	CEDAR-8
6220	761393.644	2202575.338	CEDAR-8
6221	761405.925	2202584.009	SWEET GUM-13X3
6222	761410.462	2202581.325	CHERRY-10
6223	761409.734	2202584.910	CEDAR-7
6224	761423.946	2202584.696	CHERRY-4
6225	761438.719	2202589.790	CHERRY-4
6226	761435.986	2202590.244	SWEET GUM-8
6227	761429.364	2202589.024	SWEET GUM-11
6228	761428.331	2202586.395	SWEET GUM-8
6229	761435.469	2202596.321	BRADFORD PEAR-4
6230	761433.636	2202593.164	OAK-8
6231	761454.539	2202594.369	OAK-27
6232	761462.670	2202595.652	OAK-18
6233	761467.122	2202594.529	OAK-7
6234	761485.052	2202596.549	SWEET GUM-8
6235	761492.602	2202593.089	SWEET GUM-6
6236	761494.097	2202592.909	CEDAR-5
6237	761503.809	2202590.908	CEDAR-7
6238	761507.456	2202590.338	CHERRY-5
6239	761512.563	2202590.286	SWEET GUM-7
6240	761525.096	2202587.000	OAK-18
6241	761527.229	2202585.513	SWEET GUM-4
6242	761529.155	2202586.475	CEDAR-6
6243	761540.840	2202584.408	BRADFORD PEAR-7
6244	761542.150	2202583.434	OAK-6
6245	761534.401	2202583.939	SWEET GUM-8
6246	761538.972	2202584.218	OAK-9
6247	761670.783	2202552.404	OAK-7
6248	761764.823	2202555.858	OAK-4
6249	761764.804	2202558.175	SWEET GUM-5
6250	761768.543	2202558.236	OAK-5
6251	761775.244	2202570.541	OAK-4
6252	761775.351	2202568.119	CHINABERRY-7X2
6253	761774.528	2202564.391	OAK-4
6254	761801.910	2202600.836	OAK-5
6255	761808.215	2202611.799	CHINABERRY-11
6256	761803.777	2202611.937	CHINABERRY-19
6257	761807.115	2202618.437	CHINABERRY-7
6258	761805.711	2202616.515	CHINABERRY-4
6259	761816.433	2202623.170	OAK-11
6260	761819.156	2202622.737	OAK-8
6261	761816.162	2202618.452	OAK-4
6262	761822.666	2202632.380	OAK-12
6263	761831.660	2202641.175	CHINABERRY-12X3
6264	761837.183	2202643.970	CHINABERRY-11X2
6265	761839.450	2202647.234	CHINABERRY-11X3
6266	761814.819	2202631.253	CHINABERRY-10
6267	761816.300	2202635.425	CHINABERRY-5
6268	761822.055	2202641.536	CHINABERRY-5

LINE TABLE		
LINE	BEARING	DISTANCE
L-1	N 14°32'48" E	122.39'
L-2	S 67°30'28" E	51.06'

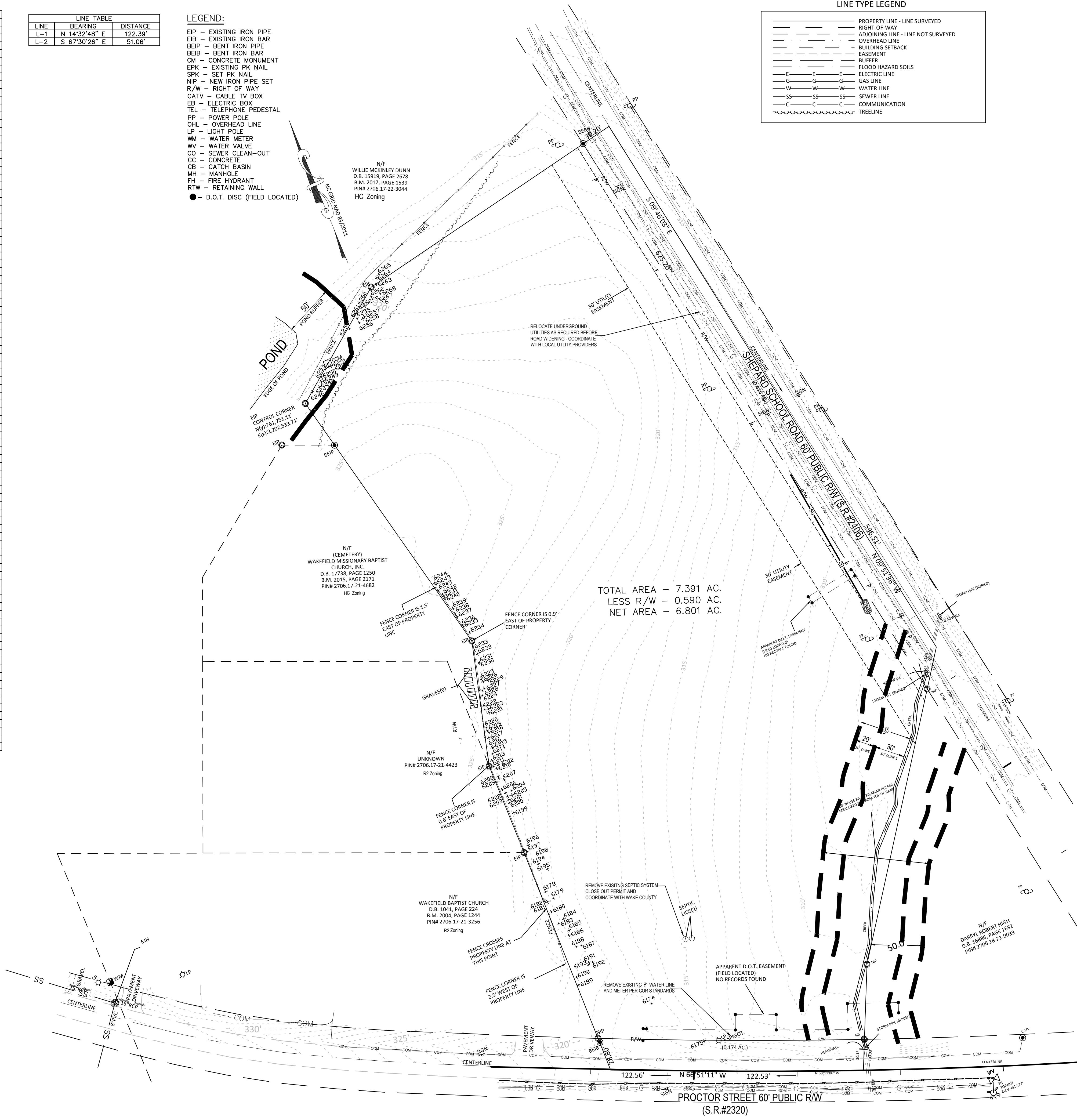
LEGEND:

- EIP - EXISTING IRON PIPE
- EIB - EXISTING IRON BAR
- BEIP - BENT IRON PIPE
- BCIB - BENT IRON BAR
- CM - CONCRETE MONUMENT
- EPK - EXISTING PK NAIL
- SPK - SET PK NAIL
- NIP - NEW IRON PIPE SET
- R/W - RIGHT OF WAY
- CATV - CABLE TV BOX
- EB - ELECTRIC BOX
- TEL - TELEPHONE PEDESTAL
- PP - POWER POLE
- OHL - OVERHEAD LINE
- LP - LIGHT POLE
- WM - WATER METER
- WV - WATER VALVE
- CO - SEWER CLEAN-OUT
- CC - CONCRETE
- CB - CATCH BASIN
- MH - MANHOLE
- FH - FIRE HYDRANT
- RTW - RETAINING WALL
- - D.O.T. DISC (FIELD LOCATED)

LINE TYPE LEGEND	
---	PROPERTY LINE - LINE SURVEYED
---	RIGHT-OF-WAY
---	ADJOINING LINE - LINE NOT SURVEYED
---	OVERHEAD LINE
---	BUILDING SETBACK
---	EASEMENT
---	BUFFER
---	FLOOD HAZARD SOILS
E - E	ELECTRIC LINE
G - G	GAS LINE
W - W	WATER LINE
SS - SS	SEWER LINE
C - C	COMMUNICATION
---	TRELLINE

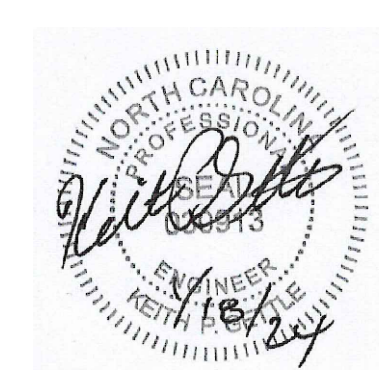
DEMOLITION NOTES

- DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER OR OTHERS EXCEPT WHEN PERMITTED UNDER THE FOLLOWING CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE ACCEPTABLE TEMPORARY UTILITY SERVICES. (1) NOTIFY OWNER NOT LESS THAN ONE WEEK IN ADVANCE OF PROPOSED UTILITY INTERRUPTIONS. (2) DO NOT PROCEED WITH UTILITY INTERRUPTIONS WITHOUT RECEIVING OWNER WRITTEN PERMISSION. (3) COORDINATE ALL UTILITY RELOCATION WITH APPROPRIATE UTILITY PROVIDER.
- SUBSURFACE FEATURES ARE SHOWN IN APPROXIMATE LOCATION. CONTRACTOR IS RESPONSIBLE FOR SUBSURFACE UTILITY EXPLORATION TO DETERMINE UTILITY LOCATIONS AND DEPTHS.
- VERIFY LOCATIONS AND SIZES OF ALL EXISTING FEATURES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION, AND REPAIR OR REPLACE ANY DAMAGES TO EXISTING UTILITIES RESULTING FROM CONSTRUCTION.
- THIS PLAT SUBJECT TO ALL EASEMENTS, AGREEMENTS AND RIGHTS OF WAY OF RECORD PRIOR TO THE DATE OF THIS PLAT.
- UNDERGROUND UTILITIES HAVE BEEN MARKED OR LOCATED FOR THIS PLAT BY GC MAPPING SERVICE, INC.
- ALL BEARINGS AND DISTANCES ARE HORIZONTAL GROUND MEASUREMENTS
- ALL ELEVATIONS ARE BASED ON NAVD 88
- ALL CONTOURS ARE AT 1' INTERVALS HIGHLIGHTED EVERY 5'.
- THERE IS NO NCGS MONUMENT WITHIN 2000' OF THIS PROPERTY.
- NORTH ROTATION WAS OBTAINED VIA NC-VRS.



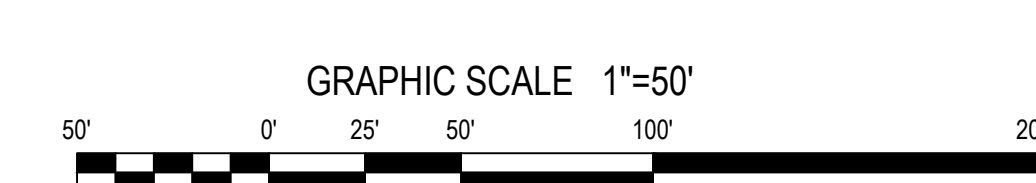
Gettle Engineering and Design, PLLC
 3616 Waxwing Court,
 Wake Forest, North Carolina 27587
 (919) 210-3934 Firm License P-2538

NO.	DATE	BY	REVISION DESCRIPTION
1	07-05-2024	PLT	Town Comment
2		BY	COMMENT
3		BY	COMMENT
4		BY	COMMENT
5		BY	COMMENT
6		BY	COMMENT
8		Dwg	DATE

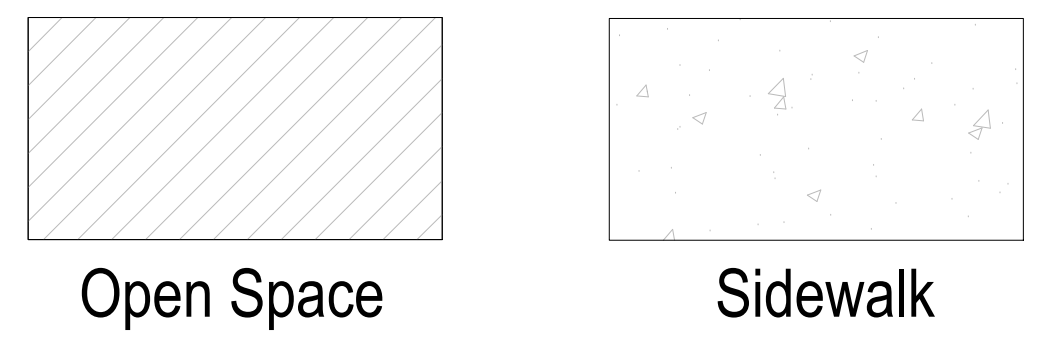


Existing Conditions / Tree Survey
StorageMax (1098359)
 901 Proctor Street
 Zebulon, Wake County, North Carolina

Project No. 23001
 Dwg No. **C1**



Legend



SITE NOTES

- WHERE NEW CURB AND GUTTER IS INSTALLED IN A PUBLIC STREET RIGHT-OF-WAY, USE 30" CURB AND GUTTER. IN OTHER LOCATIONS, USE 24" CURB AND GUTTER.
- ALL CURB DIMENSIONS ARE MEASURED TO BACK OF CURB, AND ALL CURB RADI ARE 3 FEET, UNLESS INDICATED OTHERWISE.
- USE REVERSE-PITCH CURB AND GUTTER WHERE ADJACENT PAVEMENT SLOPES AWAY FROM CURB, AND STANDARD-PITCH CURB AND GUTTER ELSEWHERE, UNLESS OTHERWISE NOTED. PROVIDE POSITIVE DRAINAGE ALONG AND FROM ALL GUTTERS.
- ALL SITE CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI UNLESS OTHERWISE INDICATED.
- ALL BASE AND PAVING WORK SHALL COMPLY WITH LOCAL STANDARDS. INDICATED PAVEMENT THICKNESSES REFER TO COMPACTED THICKNESS.
- INSTALL ALL PAVEMENT WITH POSITIVE SURFACE DRAINAGE.
- ALL HANDICAPPED PARKING SPACES, AISLES, RAMPS, SIGNAGE, PAVEMENT MARKINGS, CROSSWALKS, AND ACCESSIBLE ROUTES SHALL MEET APPLICABLE REQUIREMENTS OF THE NORTH CAROLINA ACCESSIBILITY CODE.
- ALL HANDICAP ACCESSIBLE PARKING SPACES SHALL HAVE AN R7-8 AND R7-8D SIGN. ALL SIGNS FOR VAN ACCESSIBLE SPACES SHALL ALSO INCLUDE A "VAN ACCESSIBLE" SIGN.
- CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROL MEASURES DURING THE COURSE OF PROJECT WORK IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS, THE N.C. SUPPLEMENT TO THE MUTCD, ANY REGULATORY AGENCY REQUIREMENTS, AND PROJECT-SPECIFIC SAFETY CONSIDERATIONS.
- TIE-INS TO EXISTING PAVEMENT, CURBS, WALKS, ETC. SHALL BE MADE WITH NEAT EDGES AND SMOOTH, GRADUAL TRANSITIONS THAT ARE SAFE, FUNCTIONAL, DURABLE, AND VISUALLY ACCEPTABLE TO THE OWNER AND REVIEW AUTHORITIES.
- BUILDING SIZE, CONFIGURATION, ARCHITECTURAL ELEMENTS, UTILITY STUBS, AND OTHER BUILDING FEATURES SHOWN ON THESE DRAWINGS ARE TAKEN FROM INFORMATION PROVIDED BY OTHERS. BUILDING LINES SHOWN GENERALLY REPRESENT THE EXTERIOR FACE OF THE BUILDING, BUT SHOULD NOT BE USED FOR BUILDING STAKING OR CONSTRUCTION. REFER TO BUILDING PLANS FOR ACTUAL BUILDING DIMENSIONS, DOOR LOCATIONS, COLUMN AND FOOTING LOCATIONS, WALL THICKNESSES, OVERHANGS, ROOF LINES, AND OTHER FEATURES. CONTRACTOR SHALL COORDINATE UTILITY AND DRAINAGE LOCATIONS, ELEVATIONS, MATERIALS, AND SIZES WITH INFORMATION SHOWN ON THE BUILDING DRAWINGS; AND SHALL VERIFY THAT BUILDING ELEMENTS WILL NOT ENCR OACH INTO REQUIRED SETBACKS.

OPEN SPACE (PASSIVE) SUMMARY

REQUIRED: 3% X 6.5 AC = .19AC
 PROVIDED: BIORETENTION AREA WITH PEDESTRAIN ACCESS .72 AC / 6.6 AC = 11%
 OPEN AREA AT THE BMP TO COMPLY WITH UDO 5.7.5

Gettle Engineering and Design, PLLC
 3616 Waxwing Court,
 Wake Forest, North Carolina 27587
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NO	DATE	BY	REVISION DESCRIPTION
1	01-05-2024	PK	Per Town Comment
2	DATE	BY	COMMENT
3	DATE	BY	COMMENT
4	DATE	BY	COMMENT
5	DATE	BY	COMMENT
6	DATE	BY	COMMENT
8	DATE	BY	COMMENT

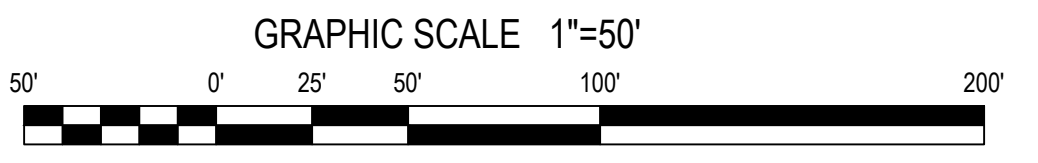
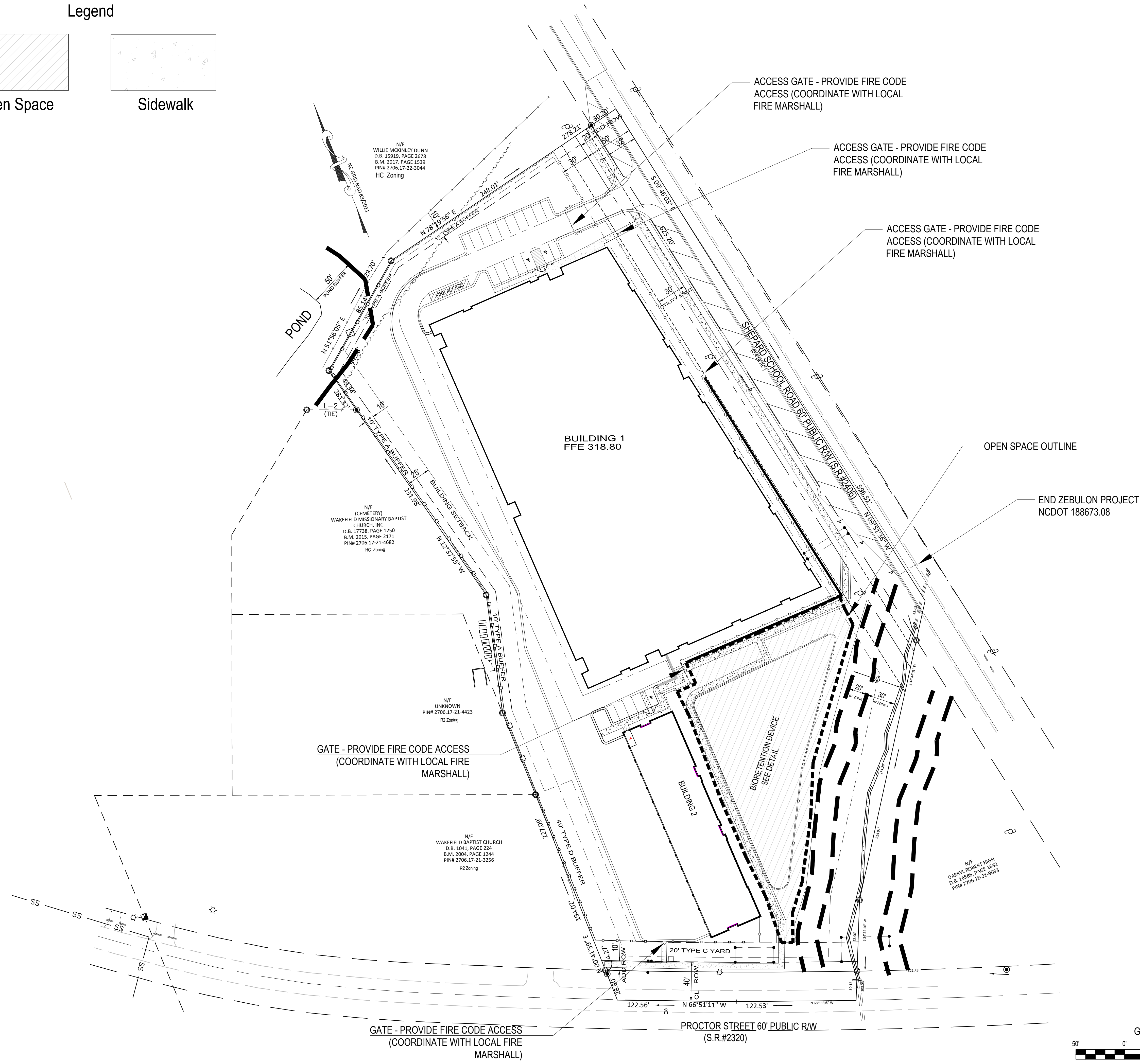


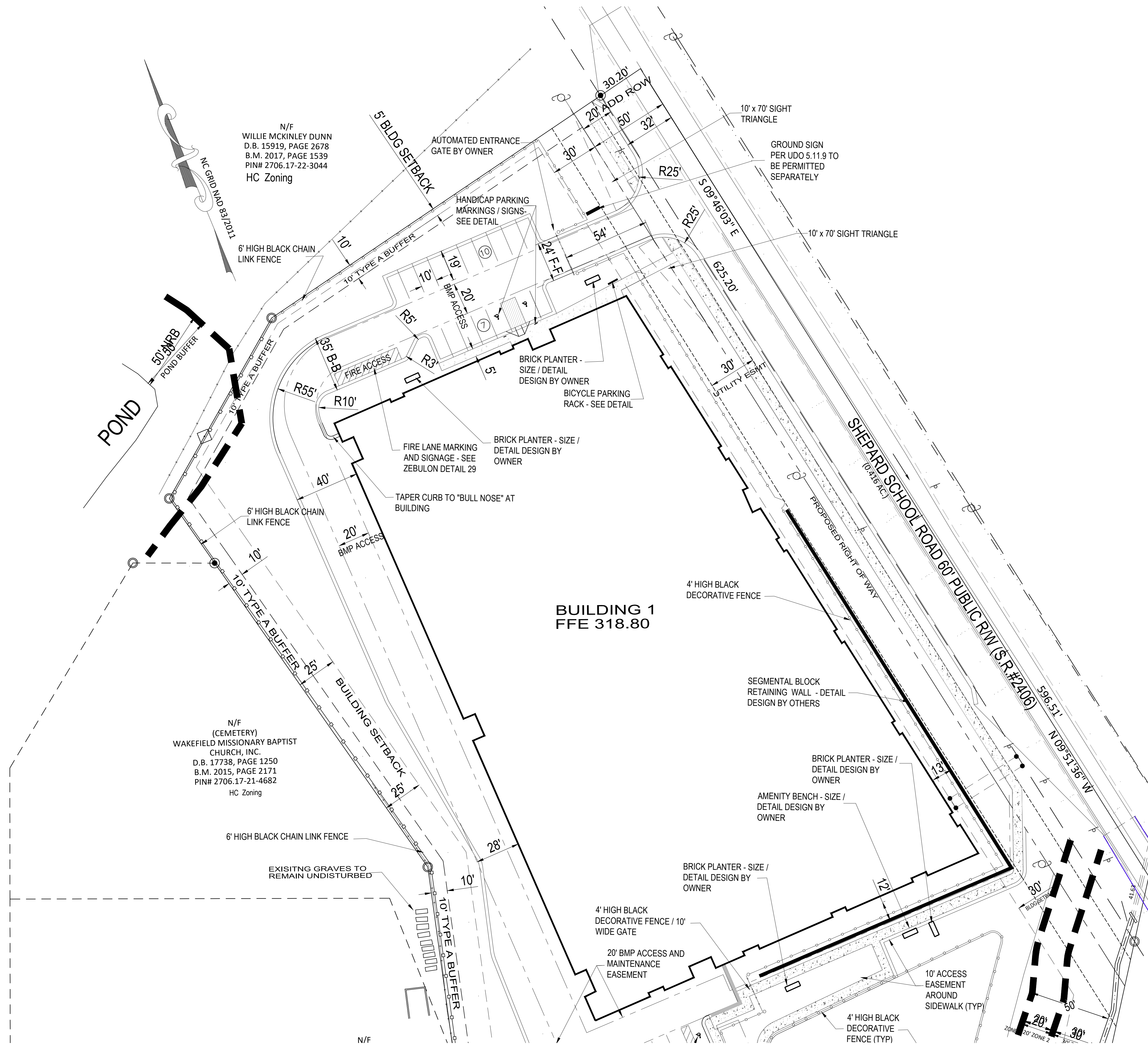
Site Plan - Overall
 StorageMax (1098359)
 901 Proctor Street
 Zebulon, Wake County, North Carolina

Project No. 23001

Dwg No.

C2



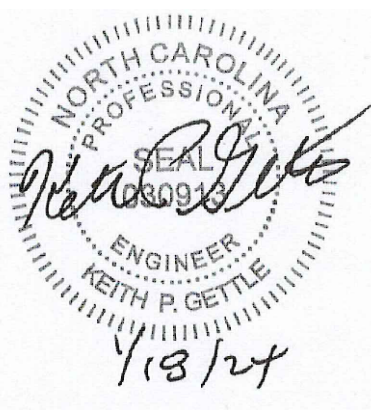


SITE NOTES

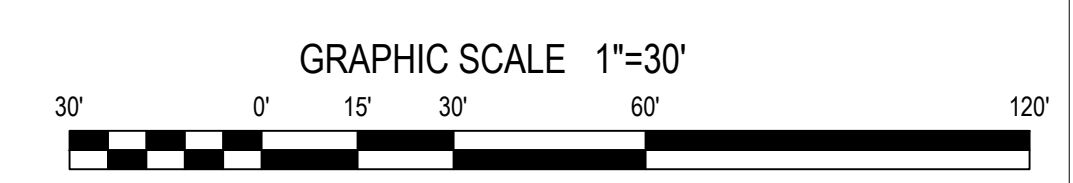
- WHERE NEW CURB AND GUTTER IS INSTALLED IN A PUBLIC STREET RIGHT-OF-WAY, USE 30" CURB AND GUTTER. IN OTHER LOCATIONS, USE 24" CURB AND GUTTER.
- ALL CURB DIMENSIONS ARE MEASURED TO BACK OF CURB, AND ALL CURB RADII ARE 3 FEET, UNLESS INDICATED OTHERWISE.
- USE REVERSE-PITCH CURB AND GUTTER WHERE ADJACENT PAVEMENT SLOPES AWAY FROM CURB, AND STANDARD-PITCH CURB AND GUTTER ELSEWHERE, UNLESS OTHERWISE NOTED. PROVIDE POSITIVE DRAINAGE ALONG AND FROM ALL GUTTERS.
- ALL SITE CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI UNLESS OTHERWISE INDICATED.
- ALL BASE AND PAVING WORK SHALL COMPLY WITH LOCAL STANDARDS. INDICATED PAVEMENT THICKNESSES REFER TO COMPACTED THICKNESS.
- INSTALL ALL PAVEMENT WITH POSITIVE SURFACE DRAINAGE.
- ALL HANDICAPPED PARKING SPACES, AISLES, RAMPS, SIGNAGE, PAVEMENT MARKINGS, CROSSWALKS, AND ACCESSIBLE ROUTES SHALL MEET APPLICABLE REQUIREMENTS OF THE NORTH CAROLINA ACCESSIBILITY CODE.
- ALL HANDICAP ACCESSIBLE PARKING SPACES SHALL HAVE AN R7-8 AND R7-8D SIGN. ALL SIGNS FOR VAN ACCESSIBLE SPACES SHALL ALSO INCLUDE A "VAN ACCESSIBLE" SIGN.
- CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROL MEASURES DURING THE COURSE OF PROJECT WORK IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS, THE N.C. SUPPLEMENT TO THE MUTCD, ANY REGULATORY AGENCY REQUIREMENTS, AND PROJECT-SPECIFIC SAFETY CONSIDERATIONS.
- TIE-INS TO EXISTING PAVEMENT, CURBS, WALKS, ETC. SHALL BE MADE WITH NEAT EDGES AND SMOOTH, GRADUAL TRANSITIONS THAT ARE SAFE, FUNCTIONAL, DURABLE, AND VISUALLY ACCEPTABLE TO THE OWNER AND REVIEW AUTHORITIES.
- BUILDING SIZE, CONFIGURATION, ARCHITECTURAL ELEMENTS, UTILITY STUBS, AND OTHER BUILDING FEATURES SHOWN ON THESE DRAWINGS ARE TAKEN FROM INFORMATION PROVIDED BY OTHERS. BUILDING LINES SHOWN GENERALLY REPRESENT THE EXTERIOR FACE OF THE BUILDING, BUT SHOULD NOT BE USED FOR BUILDING STAKING OR CONSTRUCTION. REFER TO BUILDING PLANS FOR ACTUAL BUILDING DIMENSIONS, DOOR LOCATIONS, COLUMN AND FOOTING LOCATIONS, WALL THICKNESSES, OVERHANGS, ROOF LINES, AND OTHER FEATURES. CONTRACTOR SHALL COORDINATE UTILITY AND DRAINAGE LOCATIONS, ELEVATIONS, MATERIALS, AND SIZES WITH INFORMATION SHOWN ON THE BUILDING DRAWINGS; AND SHALL VERIFY THAT BUILDING ELEMENTS WILL NOT ENCROACH INTO REQUIRED SETBACKS.
- PAVEMENT TO BE STANDARD DUTY IN PARKING AREAS AND HEAVY DUTY IN DRIVE AISLES (SEE DETAIL).
- CURB AND GUTTER TO BE 24" STANDARD ON SITE AND 30" STANDARD IN RIGHT OF WAY UNLESS OTHERWISE NOTED (SEE DETAIL).

Gettle Engineering and Design, PLLC
 3616 Waxwing Court,
 Wake Forest, North Carolina 27587
 (919) 210-3934 Firm License P-2538

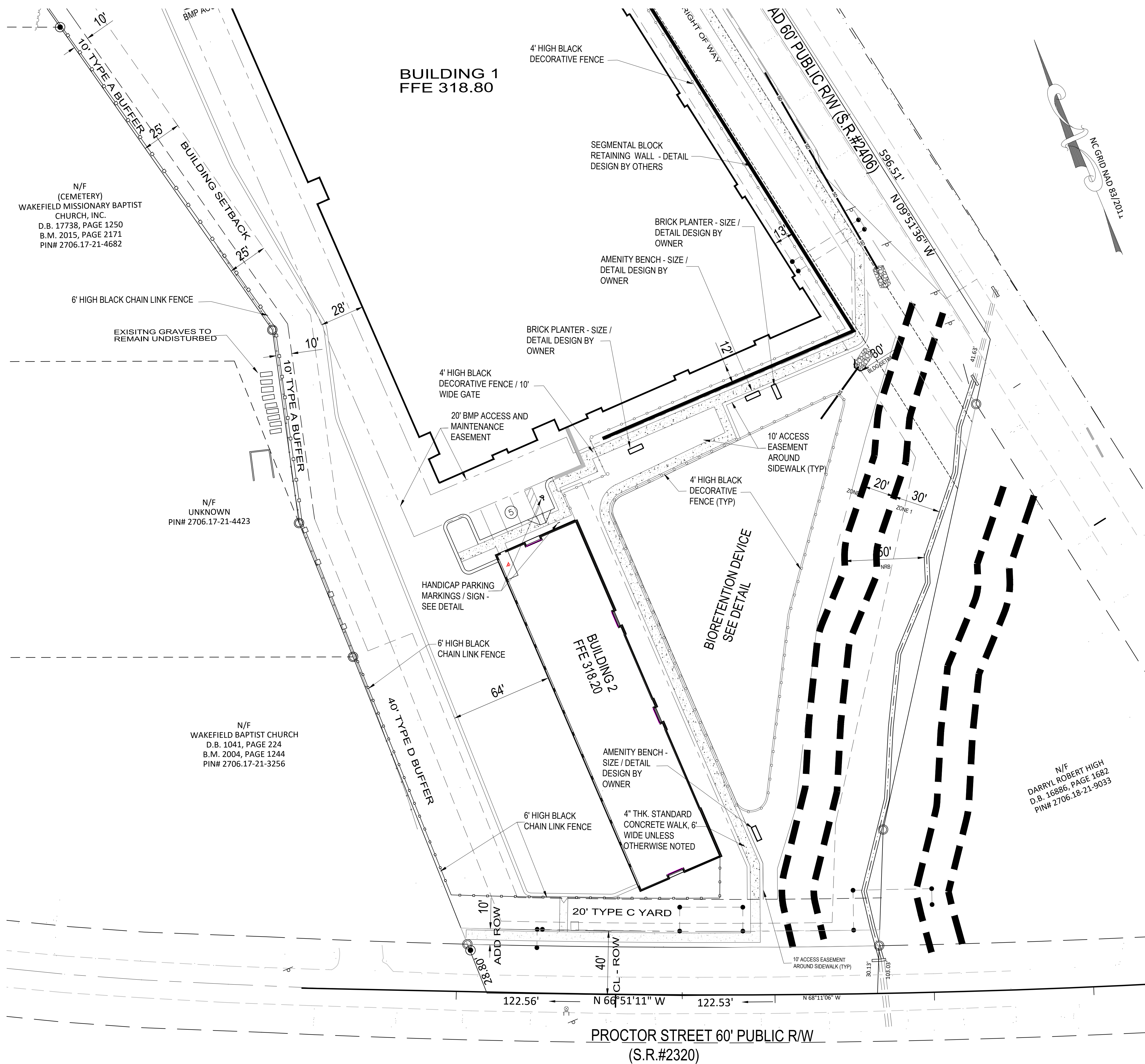
NO.	DATE	BY	REVISION DESCRIPTION
1	01-18-2024		
2			
3			
4			
5			
6			
7			
8			



Site Plan - Enlarged North StorageMax (1098359)
 901 Proctor Street
 Zebulon, Wake County, North Carolina



Project No. 23001
 Dwg No. **C3**



N/F
(CEMETERY)
WAKEFIELD MISSIONARY BAPTIST
CHURCH, INC.
D.B. 17738, PAGE 1250
B.M. 2015, PAGE 2171
PIN# 2706.17-21-4682

6' HIGH BLACK CHAIN LINK FENCE

EXISTING GRAVES TO
REMAIN UNDISTURBED

N/F
UNKNOWN
PIN# 2706.17-21-4423

N/F
WAKEFIELD BAPTIST CHURCH
D.B. 1041, PAGE 224
B.M. 2004, PAGE 1244
PIN# 2706.17-21-3256

BUILDING 1
FFE 318.80

4' HIGH BLACK
DECORATIVE FENCE

SEGMENTAL BLOCK
RETAINING WALL - DETAIL
DESIGN BY OTHERS

BRICK PLANTER - SIZE /
DETAIL DESIGN BY
OWNER

AMENITY BENCH - SIZE /
DETAIL DESIGN BY
OWNER

BRICK PLANTER - SIZE /
DETAIL DESIGN BY
OWNER

4' HIGH BLACK
DECORATIVE FENCE / 10'
WIDE GATE

20' BMP ACCESS AND
MAINTENANCE
EASEMENT

10' ACCESS
EASEMENT
AROUND
SIDEWALK (TYP)

4' HIGH BLACK
DECORATIVE
FENCE (TYP)

HANDICAP PARKING
MARKINGS / SIGN -
SEE DETAIL

6' HIGH BLACK
CHAIN LINK FENCE

BUILDING 2
FFE 318.20

AMENITY BENCH -
SIZE / DETAIL
DESIGN BY
OWNER

6' HIGH BLACK
CHAIN LINK FENCE

4" THK. STANDARD
CONCRETE WALK, 6'
WIDE UNLESS
OTHERWISE NOTED

BIORETENTION DEVICE
SEE DETAIL

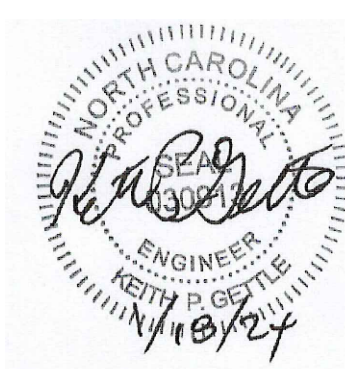
20' TYPE C YARD

N/F
DARRYL ROBERT HIGH
D.B. 16886, PAGE 1682
PIN# 2706.18-21-9033



Gettle Engineering and Design, PLLC
3616 Waxwing Court,
Wake Forest, North Carolina 27587
(919) 210-3934 Firm License P-2538

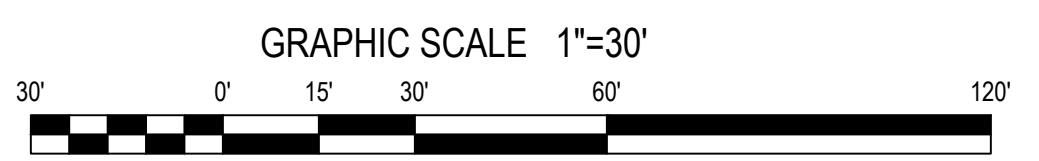
NO.	DATE	REVISION/DESCRIPTION	BY
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3		COMMENT	
4		COMMENT	
5		COMMENT	
6		COMMENT	
8		COMMENT	



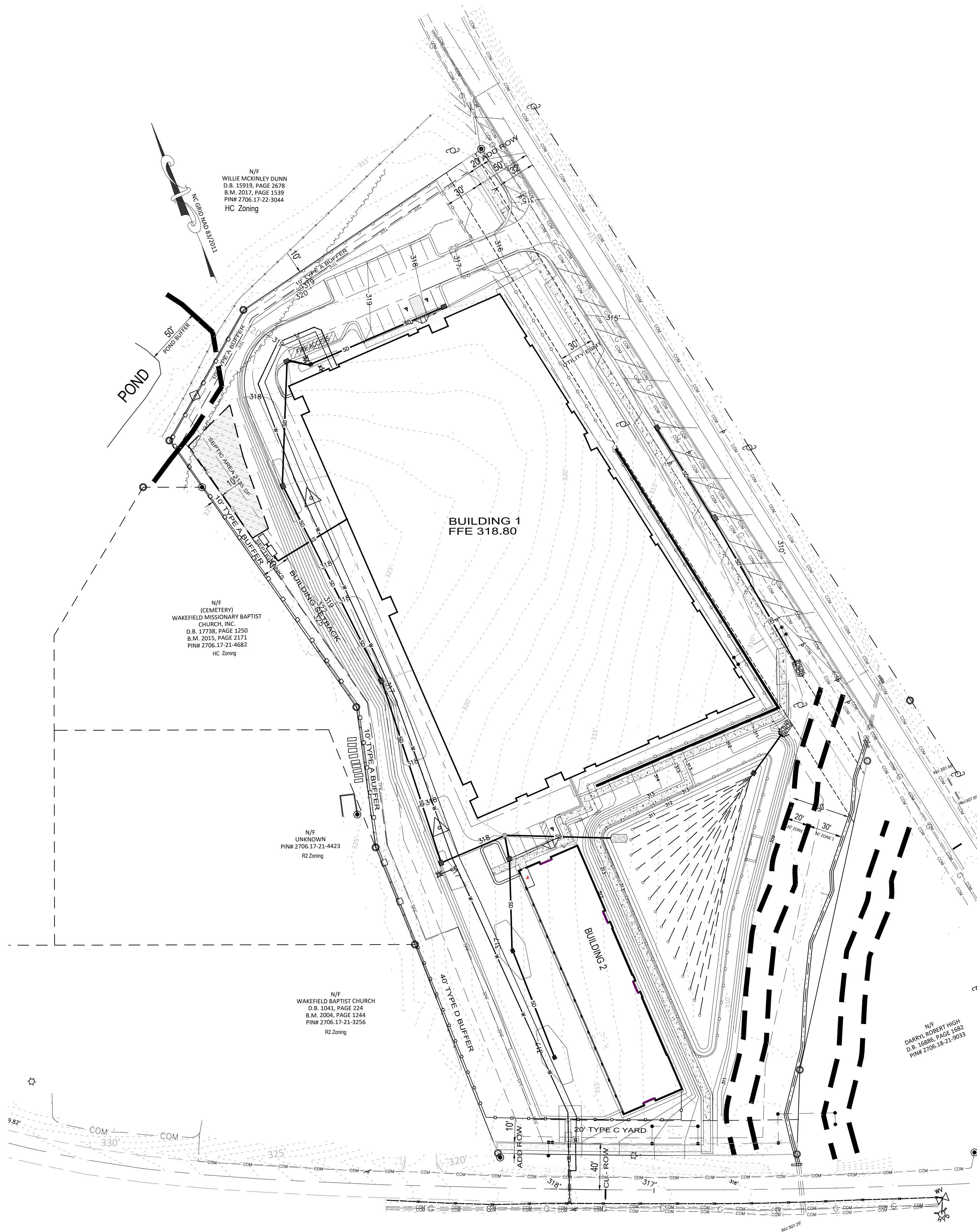
Site Plan - Enlarged South
StorageMax (1098359)
901 Proctor Street
Zebulon, Wake County, North Carolina

Project No. 23001

Dwg No. **C4**



PROCTOR STREET 60' PUBLIC R/W
(S.R.#2320)



N/F
WILLIE MCKINLEY DUNN
D.B. 15919, PAGE 2678
B.M. 2017, PAGE 1539
PIN# 2706.17-22-3044
HC Zoning

N/F
(CEMETERY)
WAKEFIELD MISSIONARY BAPTIST
CHURCH, INC.
D.B. 17738, PAGE 1250
B.M. 2015, PAGE 3173
PIN# 2706.17-21-4682
HC Zoning

N/F
UNKNOWN
PIN# 2706.17-21-4423
R2 Zoning

N/F
WAKEFIELD BAPTIST CHURCH
D.B. 1041, PAGE 224
B.M. 2004, PAGE 1244
PIN# 2706.17-21-3256
R2 Zoning

N/F
DARRYL ROBERT HIGH
D.B. 18886, PAGE 1882
PIN# 2706.18-21-8093

GENERAL GRADING AND STORM DRAINAGE SPECIFICATIONS

EXISTING CONDITIONS

- INFORMATION ABOUT EXISTING UNDERGROUND FACILITIES AND SUBSURFACE CONDITIONS INDICATED ON THESE DRAWINGS IS NOT BASED ON AN EXHAUSTIVE INVESTIGATION OF SUCH FACILITIES OR CONDITIONS, AND THE ENGINEER MAKES NO WARRANTY TO ANY PARTY REGARDING THEM. EXISTING UTILITY LINE LOCATIONS SHOWN SHOULD BE CONSIDERED APPROXIMATE, AND ACTUAL UTILITIES AND CONDITIONS MAY DIFFER FROM THOSE INDICATED. IF DIFFERING UTILITIES OR CONDITIONS EXIST, THEY MAY BE ENCOUNTERED DURING THE COURSE OF THE PROJECT WORK, AND MAY IMPACT THE PROJECT SCOPE AND TIME REQUIREMENTS.

PROTECTION AND SAFETY

- PRIOR TO BEGINNING WORK, AND AS NEEDED DURING THE COURSE OF PROJECT WORK, CONTRACTOR SHALL NOTIFY ALL APPLICABLE UTILITY LOCATION SERVICES AND UTILITY PROVIDERS TO REASONABLY VERIFY THE LOCATION OF ALL KNOWN OR SUSPECTED UTILITIES, IN ACCORDANCE WITH STATE REGULATIONS. CONTRACTOR IS ADVISED THAT SOME UTILITY PROVIDERS DO NOT SUBSCRIBE TO ONE-CALL SERVICES, AND MUST BE CONTACTED SEPARATELY.
- CONTRACTOR SHALL PROVIDE ADEQUATE MEANS AND METHODS FOR PROTECTION OF ALL EXISTING UTILITIES AND SITE FEATURES WHICH ARE INTENDED TO REMAIN IN SERVICE OR IN PLACE.
- CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROL MEASURES DURING THE COURSE OF PROJECT WORK IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS, THE N.C. SUPPLEMENT TO THE MUTCD, ANY REGULATORY AGENCY REQUIREMENTS, AND PROJECT-SPECIFIC SAFETY CONSIDERATIONS.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SAFETY PROGRAMS AND MEASURES ON THE PROJECT SITE OR OTHERWISE RELATING TO THE PROJECT WORK, AND SHALL COMPLY WITH ALL SAFETY CODES AND REGULATIONS APPLICABLE THERETO, FOR THE PROTECTION OF WORKERS, VISITORS, AND THE GENERAL PUBLIC.

COMPLIANCE

- ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE STANDARDS AND REQUIREMENTS OF THE CITY OF RALEIGH, TOWN OF ZEBULON, WAKE COUNTY SEDIMENTATION AND EROSION CONTROL OFFICE, AND THE N.C. STATE BUILDING CODES.

NOTIFICATIONS

- NOTIFY THE ENGINEER AT LEAST TWO BUSINESS DAYS PRIOR TO BEGINNING OR RESUMING ANY STORM DRAINAGE OR STORMWATER IMPOUNDMENT BASIN WORK.
- NOTIFY THE APPLICABLE LOCAL GOVERNMENT AUTHORITIES IN ACCORDANCE WITH THEIR REQUIREMENTS PRIOR TO BEGINNING ANY WORK.
- NOTIFY THE GEOTECHNICAL ENGINEER AND TESTING SERVICE AT LEAST TWO BUSINESS DAYS PRIOR TO BEGINNING OR RESUMING ANY GRADING OR STORMWATER IMPOUNDMENT BASIN WORK.

QUALITY CONTROL

- ALL EARTHWORK OPERATIONS, INCLUDING TOPSOIL STRIPPING, STOCKPILING, EXCAVATION, FILLING, COMPACTING, TRENCHING, BACKFILLING, RETAINING WALLS, AND FINE-GRADING, SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF A GEOTECHNICAL ENGINEER, WHO SHALL VERIFY THE SUITABILITY OF SOIL MATERIALS, MONITOR EARTHWORK ACTIVITIES, DIRECT AND OBSERVE PROOFROLLING, AND PROVIDE COMPACTION AND STABILITY TESTING DURING THE PROGRESS OF THE WORK.
- NO SOIL SHALL BE PLACED IN A PERMANENT LOCATION UNLESS IT HAS BEEN APPROVED BY THE GEOTECHNICAL ENGINEER FOR THE INTENDED USE AND LOCATION.
- PRIOR TO PLACEMENT OF ANY FILL, THE SUBGRADE OR PREVIOUS LIFT OF FILL SHALL BE SUCCESSFULLY TESTED OR OTHERWISE APPROVED, AND DETERMINED TO BE READY FOR SUBSEQUENT WORK.
- PRIOR TO PLACEMENT OF ANY AGGREGATE, PAVING, SLABS, STRUCTURES, FOOTINGS, PIPING, OR OTHER WORK, SUBGRADES AND OTHER BEARING SURFACES SHALL BE SUCCESSFULLY TESTED OR OTHERWISE APPROVED, AND DETERMINED TO BE READY FOR SUBSEQUENT WORK.
- CONTRACTOR SHALL ALLOW AND PARTICIPATE IN SOIL TESTING ACTIVITIES, INCLUDING ACTIVE COORDINATION WITH THE GEOTECHNICAL ENGINEER AND FURNISHING PROOFROLLING EQUIPMENT, MATERIALS, AND MANPOWER AS NEEDED.

CLEARING & GRUBBING

- ALL VEGETATIVE MATERIAL DISLOCATED BY CLEARING AND GRUBBING ACTIVITIES SHALL BE COMPLETELY REMOVED FROM THE PROJECT SITE AND LEGALLY DISPOSED. NO ONSITE BURNING OF CLEARING WASTE SHALL OCCUR.
- ALL PAVEMENT, CURB, PIPE, STRUCTURES AND OTHER PHYSICAL SITE FEATURES THAT ARE INDICATED OR REQUIRED TO BE REMOVED SHALL BE LEGALLY DISPOSED IN AN OFFSITE LOCATION.

GRADING

- STRUCTURAL FILL IS DEFINED AS SOIL CLASSIFIED AS SM, SC, ML, AND CL, FREE OF VEGETATIVE MATTER, DEBRIS OR OTHER UNSUITABLE MATTER, FREE OF ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION, CAPABLE OF BEING COMPACTED TO THE REQUIRED DENSITY, AND WHICH HAS BEEN APPROVED FOR USE BY THE GEOTECHNICAL ENGINEER.
- OTHER SOIL NOT MEETING THE DEFINITION FOR STRUCTURAL FILL MAY BE APPROVED BY THE GEOTECHNICAL ENGINEER FOR USE UNDER LIMITED CONDITIONS OR IN LIMITED AREAS.
- STRUCTURAL FILL SHALL GENERALLY BE PLACED AND COMPACTED WHEN THE SOIL'S MOISTURE CONTENT IS WITHIN 4 PERCENTAGE POINTS OF THE SOIL'S OPTIMUM MOISTURE CONTENT, IN LIFTS NOT TO EXCEED 8 INCHES LOOSE THICKNESS. THE IN-PLACE COMPACTED DENSITY SHALL BE AT LEAST 90 PCF. TIGHTER SPECIFICATIONS MAY BE REQUIRED FOR CERTAIN AREAS, SOIL TYPES, OR COMPACTION METHODS.
- STRUCTURAL ZONES SHALL INCLUDE ALL AREAS SUBJECT TO DIRECT BEARING PRESSURE PLUS 10 FEET HORIZONTAL PLUS A 1:1 DOWNWARD SLOPE IN ANY AREAS OF FILL.
- ALL SOIL UNDER PAVEMENTS, BUILDINGS, AND WALKWAYS, OR IN STRUCTURAL ZONES ASSOCIATED WITH THESE AREAS SHALL BE APPROVED IN-SITU SOIL OR STRUCTURAL FILL, COMPACTED TO AT LEAST 95% OF THE SOIL'S MAXIMUM DRY DENSITY (MDD) PER ASTM D-698. TIGHTER REQUIREMENTS MAY APPLY FOR CERTAIN AREAS.
- IN THE BUILDING AREA, THE REQUIRED DENSITY OF FILL SHALL BE 100% MDD, EXCEPT THE TOP 12 INCHES OF FILL SHALL BE AT LEAST 98% MDD. WHERE THE BUILDING WILL BE PLACED ON IN-SITU SOIL, THE SOIL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER AND COMPACTED TO AT LEAST 98% MDD.
- ALL EXCESS OR UNSUITABLE SOIL SHALL BE LEGALLY DISPOSED IN AN OFFSITE OR APPROVED ONSITE LOCATION.
- WHERE LANDSCAPED OR YARD AREAS ADJUT EXTERIOR BUILDING WALLS, FINISHED GROUND ELEVATIONS ADJACENT TO THE WALL SHALL BE AT LEAST 3 INCHES BELOW THE FINISHED FLOOR ELEVATION, AND SHALL SLOPE AWAY FROM THE BUILDING WITH POSITIVE DRAINAGE.

TRENCHING AND BACKFILLING

- WHERE ROCK OR OTHER HARD MATERIAL OCCURS AT THE DESIGNED TRENCH BOTTOM, OVEREXCAVATE TRENCH DEPTH 6 INCHES AND REPLACE OVEREXCAVATION MATERIAL WITH #7 STONE BEDDING.
- WHERE THE DESIGNED TRENCH BOTTOM CONSISTS OF UNSTABLE BEARING SOIL, UNDERCUT TRENCH BOTTOM AND REPLACE UNDERCUT MATERIAL IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
- BACKFILL SOIL SHALL BE STRUCTURAL FILL, PLACED AND COMPACTED IN ACCORDANCE WITH REQUIREMENTS FOR THE SPECIFIC AREA OF WORK, WITHOUT DAMAGING OR DISPLACING PIPE OR STRUCTURES

STORM DRAINAGE SYSTEM

- STORM DRAINAGE STRUCTURES SHALL CONFORM TO ZEBULON AND NCDOT STANDARDS, AND MAY BE CONSTRUCTED OF EITHER SOLID MASONRY OR PRE-CAST CONCRETE. "KNOCK-OUT" TYPE PRE-CAST STRUCTURES SHALL NOT BE USED WHERE THE DESIGNED PIPE CONFIGURATION WOULD REQUIRE REMOVAL OF STRUCTURAL CORNERS OR ALTERATION OF DESIGNED PIPE ENTRY ANGLES.
- STORM DRAINAGE PIPE LENGTHS SHOWN ARE APPROXIMATE, AS MEASURED FROM THE CENTER OF DRAINAGE STRUCTURES, AND TO THE END OF ANY FLARED END SECTION (FES), AS APPLICABLE.
- CONTRACTOR SHALL VERIFY AND COORDINATE EXACT POSITIONING OF STORM DRAINAGE PIPING AND STRUCTURES, AND SHALL MAKE ADJUSTMENTS AS NEEDED TO PROVIDE PROPER CONNECTIONS, STRUCTURE LOCATIONS, ORIENTATIONS, DIMENSIONS, ELEVATIONS, FRAME PLACEMENT, AND SURFACE DRAINAGE. REFER TO STORM DRAINAGE STRUCTURE DETAILS FOR DIMENSIONS, OFFSETS, CLEARANCES, SETBACKS FROM CURB, AND OTHER REQUIREMENTS. MODIFY STRUCTURES AS NEEDED TO ACCOMMODATE LARGE-DIAMETER PIPING, MULTIPLE PIPE PENETRATIONS, AND PIPE CONNECTION ANGLES.
- STORM DRAINAGE PIPING SHALL BE REINFORCED CONCRETE PIPE (RCP), CLASS III, CONFORMING TO ASTM C76, UNLESS OTHERWISE SPECIFIED. ALL JOINTS SHALL BE FULLY SEALED USING PREFORMED FLEXIBLE BUTYL RUBBER SEALING COMPOUND.

SURFACE DRAINAGE

- ALL SPOT ELEVATIONS SHOWN ARE FINISHED SURFACE ELEVATIONS. SPOT ELEVATIONS SHALL TAKE PRECEDENCE OVER ELEVATION CONTOURS. ALL ELEVATIONS SHOWN ON CURB AND GUTTER REFER TO TOP OF CURB, UNLESS OTHERWISE INDICATED.
- ALL FINISHED PAVEMENT AND YARD SURFACES SHALL BE FINE-GRADED AND FINISHED TO HAVE POSITIVE SURFACE DRAINAGE TO A FREE-FLOWING DRAINAGE OUTLET, WITH NO IRREGULARITIES OR DEPRESSIONS THAT WOULD CAUSE UNINTENDED WATER PONDING.
- USE REVERSE-PITCH CURB AND GUTTER WHERE ADJACENT PAVEMENT SLOPES AWAY FROM CURB, AND STANDARD-PITCH CURB AND GUTTER ELSEWHERE, UNLESS OTHERWISE NOTED. PROVIDE POSITIVE DRAINAGE ALONG AND FROM ALL GUTTERS.
- TIE-INS TO EXISTING PAVEMENT, CURBS, WALKS, ETC. SHALL BE MADE WITH NEAT EDGES AND SMOOTH, GRADUAL TRANSITIONS THAT ARE SAFE, FUNCTIONAL, DURABLE, AND VISUALLY ACCEPTABLE TO THE OWNER AND REVIEW AUTHORITIES.

ACCESSIBILITY

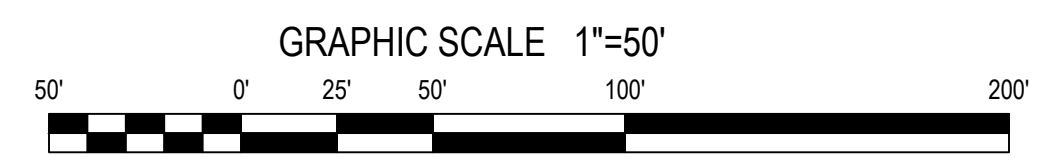
- FINISHED WALKWAY ELEVATIONS ABUTTING EXTERIOR DOORWAY THRESHOLDS SHALL BE ONE-FOURTH INCH BELOW THE ADJOINING FINISHED FLOOR ELEVATION. EXTERIOR PADS AND WALKWAYS SHALL SLOPE AWAY FROM THE BUILDING AT A SLOPE NO LESS THAN 1.0% AND NO GREATER THAN 2.0% SIDEWALKS, CROSSWALKS, AND OTHER WALKWAYS SHALL NOT EXCEED 2.0% CROSS-SLOPE.
- NO PORTION OF ANY HANDICAP ACCESSIBLE ROUTE SHALL EXCEED 2.0% CROSS-SLOPE OR 5.0% LONGITUDINAL SLOPE.
- NO PORTION OF ANY HANDICAP PARKING SPACE OR ADJOINING ACCESS AISLE SHALL EXCEED 2.0% SLOPE IN ANY DIRECTION.

BMP NOTES

- SEE THE DETAIL SHEET FOR SPECIFICS REGARDING THE BIORETENTION DEVICE.

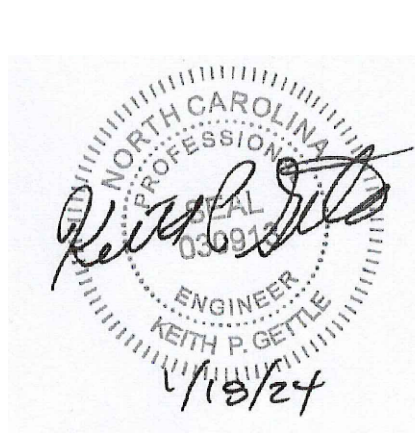
NOTES

- SEE SHEETS C6 AND C7 FOR STORM DRAIN SCHEDULE.



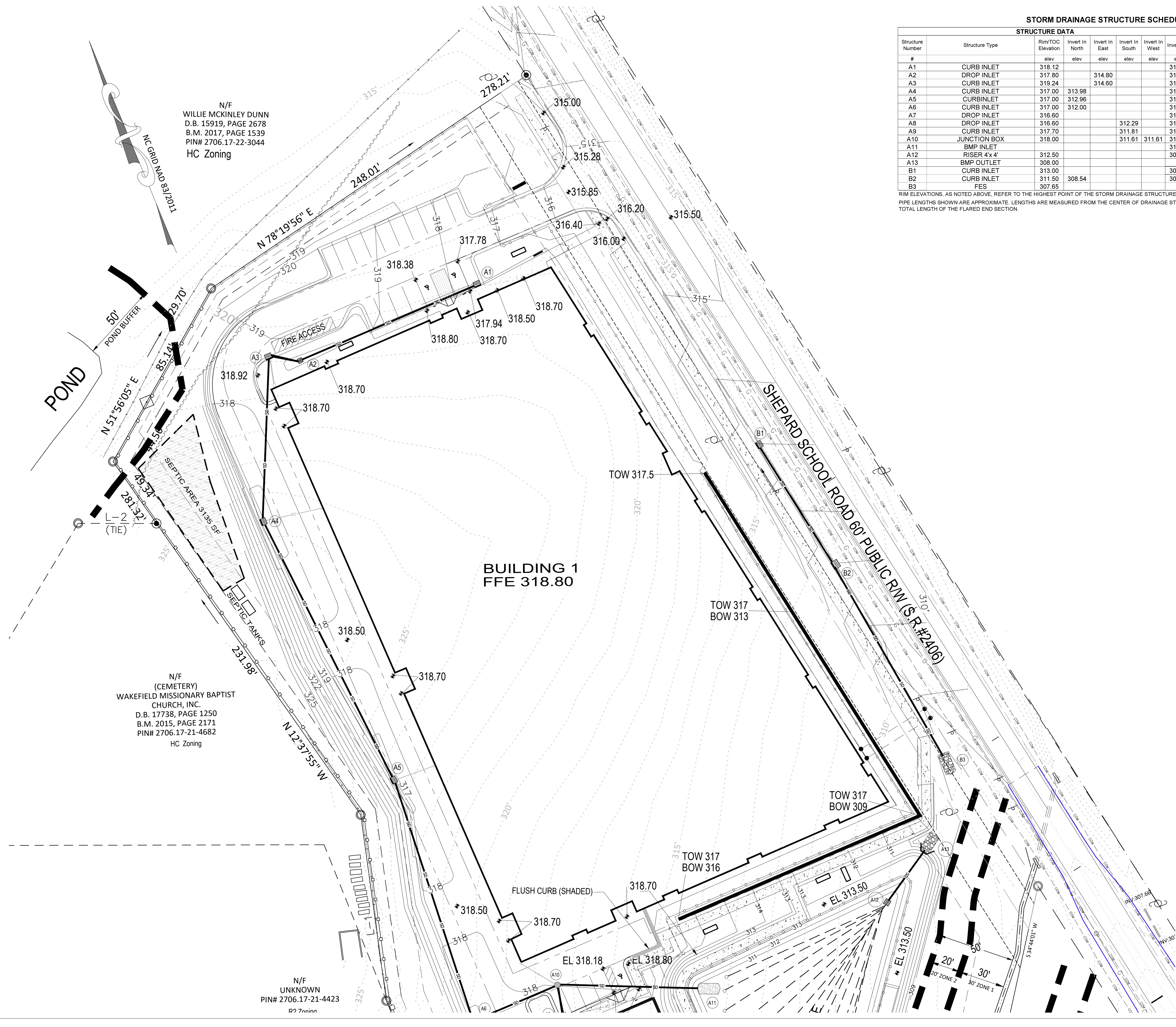
Gettle Engineering and Design, PLLC
3616 Waxwing Court,
Wake Forest, North Carolina 27587
(919) 210-3934 Firm License P-2538

NO.	DATE	BY	REVISION DESCRIPTION
1	01/08/2024		Per Town Comment
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Grading Overall
StorageMax (1098359)
901 Proctor Street
Zebulon, Wake County, North Carolina

Project No. 23001
Dwg No. **C5**



N/F
WILLIE MCKINLEY DUNN
D.B. 15919, PAGE 2678
B.M. 2017, PAGE 1539
PIN# 2706.17-22-3044
HC Zoning

N/F
(CEMETERY)
WAKEFIELD MISSIONARY BAPTIST
CHURCH, INC.
D.B. 17738, PAGE 1250
B.M. 2015, PAGE 2171
PIN# 2706.17-21-4682
HC Zoning

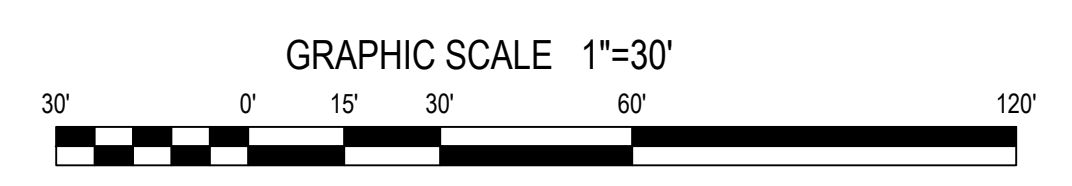
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UNKNOWN
PIN# 2706.17-21-4423
R2 Zoning

STORM DRAINAGE STRUCTURE SCHEDULE

Structure Number	Structure Type	STRUCTURE DATA						PIPE DATA				REMARKS	
		Rim/TOC Elevation	Invert In North	Invert In East	Invert In South	Invert In West	Invert Out	To	Pipe Length	Pipe Slope	Design Diameter		Pipe Material
#		elev	elev	elev	elev	elev		ft	%	in			
A1	CURB INLET	318.12					315.41	A2	122.0	0.50%	12	RCP	Town of Zebulon Detail #33
A2	DROP INLET	317.80					314.70	A3	18.0	0.50%	15	RCP	Town of Zebulon Detail #34
A3	CURB INLET	319.24		314.80			314.50	A4	103.0	0.50%	18	RCP	Town of Zebulon Detail #33
A4	CURB INLET	317.00	313.98				313.88	A5	184.0	0.50%	18	RCP	Town of Zebulon Detail #33
A5	CURBINLET	317.00	312.96				312.86	A6	161.0	0.50%	24	RCP	Town of Zebulon Detail #33
A6	CURB INLET	317.00	312.00				311.90	A10	57.0	0.50%	24	RCP	Town of Zebulon Detail #33
A7	DROP INLET	316.60					312.76	A8	95.5	0.50%	18	RCP	Town of Zebulon Detail #34
A8	DROP INLET	316.60			312.29		312.19	A9	76.0	0.50%	24	RCP	Town of Zebulon Detail #34
A9	CURB INLET	317.70					311.81	A10	18.0	0.50%	24	RCP	Town of Zebulon Detail #33
A10	JUNCTION BOX	318.00			311.61		311.51	A11	90.0	0.60%	24	RCP	Town of Zebulon Detail #37
A11	BMP INLET						311.00						Class B Rip Rap Apron L= 12', W=6.8', T=18"
A12	RISER 4'x4'	312.50					308.25	A13	40.0	0.50%	24	RCP	Class B Rip Rap Apron L= 12', W=6.8', T=18"
A13	BMP OUTLET	308.00											Class B Rip Rap Apron L= 12', W=6.8', T=18"
B1	CURB INLET	313.00					309.00	B2	90.2	0.50%	15	RCP	NCDOT 840.02
B2	CURB INLET	311.50	308.54				308.34	B3	143.0	0.50%	15	RCP	NCDOT 840.02
B3	FES	307.65											Class A Rip Rap Apron L= 5', W=3.75', T=12"

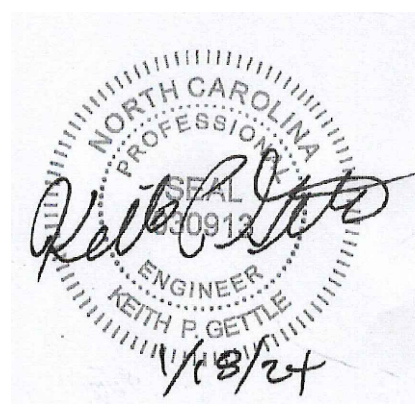
RIM ELEVATIONS, AS NOTED ABOVE, REFER TO THE HIGHEST POINT OF THE STORM DRAINAGE STRUCTURE TOP.
PIPE LENGTHS SHOWN ARE APPROXIMATE. LENGTHS ARE MEASURED FROM THE CENTER OF DRAINAGE STRUCTURES, AND WHERE APPLICABLE, INCLUDE THE TOTAL LENGTH OF THE FLARED END SECTION.

NOTES
1. SEE SHEET C5 FOR GRADING NOTES.



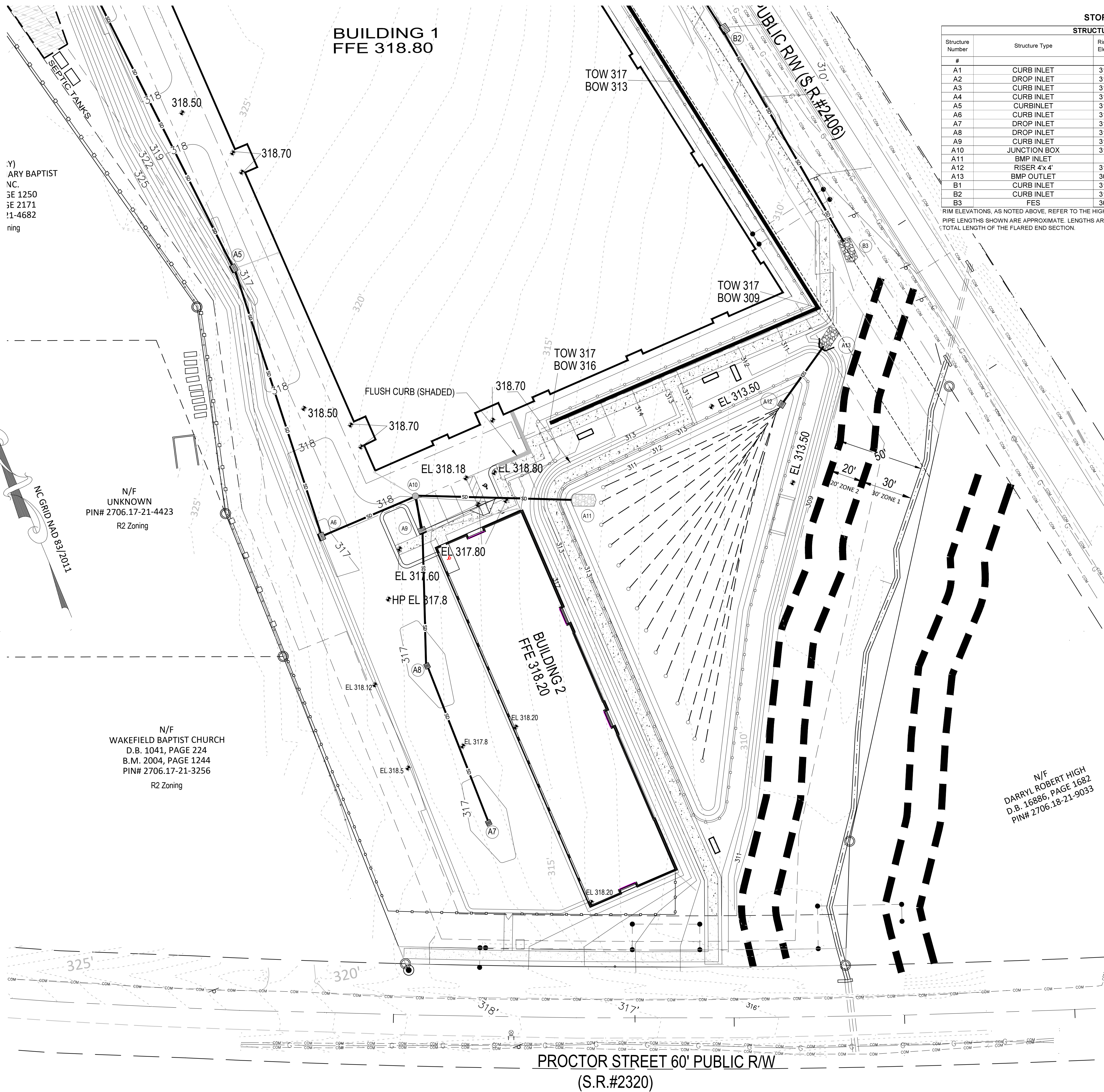
Gettle Engineering and Design, PLLC
3616 Waxwing Court,
Wake Forest, North Carolina 27587
(919) 210-3934 Firm License P-2538

NO.	DATE	BY	REVISION DESCRIPTION
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Grading - Enlarged North StorageMax (1098359)
901 Proctor Street
Zebulon, Wake County, North Carolina

Project No. 23001
Dwg No. **C6**



STORM DRAINAGE STRUCTURE SCHEDULE

STRUCTURE DATA							PIPE DATA				REMARKS	
Structure Number	Structure Type	Rim/TOC Elevation	Invert In North	Invert In East	Invert In South	Invert In West	Invert Out	To	Pipe Length	Pipe Slope		Design Diameter
A1	CURB INLET	318.12					315.41	A2	122.0	0.50%	12	RCP
A2	DROP INLET	317.80					314.70	A3	18.0	0.50%	15	RCP
A3	CURB INLET	319.24		314.80			314.60	A4	103.0	0.50%	18	RCP
A4	CURB INLET	317.00	313.98				313.88	A5	184.0	0.50%	18	RCP
A5	CURBINLET	317.00	312.96				312.86	A6	161.0	0.50%	24	RCP
A6	CURB INLET	317.00	312.00				311.90	A10	57.0	0.50%	24	RCP
A7	DROP INLET	316.60					312.76	A8	95.5	0.50%	18	RCP
A8	DROP INLET	316.60			312.29		312.19	A9	76.0	0.50%	24	RCP
A9	CURB INLET	317.70			311.81		311.71	A10	18.0	0.50%	24	RCP
A10	JUNCTION BOX	318.00			311.61		311.51	A11	90.0	0.60%	24	RCP
A11	BMP INLET						311.00				24	RCP
A12	RISER 4x4	312.50					308.25	A13	40.0	0.50%	24	RCP
A13	BMP OUTLET	308.00						NCDOT Endwall # 838.80				Class B Rip Rap Apron L= 12', W=6.8', T=18"
B1	CURB INLET	313.00					309.00	B2	90.2	0.50%	15	RCP
B2	CURB INLET	311.50					308.34	B3	143.0	0.50%	15	RCP
B3	FES	307.65										

RIM ELEVATIONS, AS NOTED ABOVE, REFER TO THE HIGHEST POINT OF THE STORM DRAINAGE STRUCTURE TOP.
 PIPE LENGTHS SHOWN ARE APPROXIMATE. LENGTHS ARE MEASURED FROM THE CENTER OF DRAINAGE STRUCTURES, AND WHERE APPLICABLE, INCLUDE THE TOTAL LENGTH OF THE FLARED END SECTION.

BMP Schedule	
Top of Dam	313.50
Spillway (20')	313.00
Top of Riser	312.50
Bottom of Riser (Inv)	308.25
Drawdown Orifice	6"
Orifice Invert	312.00
Media Surface	311.00
Discharge Pipe Dia.	24"
Discharge Length	45'
Discharge Inv Out	308.00
WQV Elevation	312.00
Q1 Elevation	312.53
Q10 Elevation	312.97
Q100 Elevation	313.40
Seasonal High Water Table	306.00

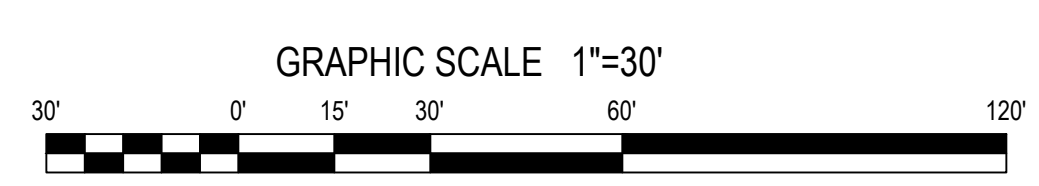
Y) ARY BAPTIST NC. SE 1250 SE 2171 !1-4682 ning

N/F UNKNOWN PIN# 2706.17-21-4423 R2 Zoning

N/F WAKEFIELD BAPTIST CHURCH D.B. 1041, PAGE 224 B.M. 2004, PAGE 1244 PIN# 2706.17-21-3256 R2 Zoning

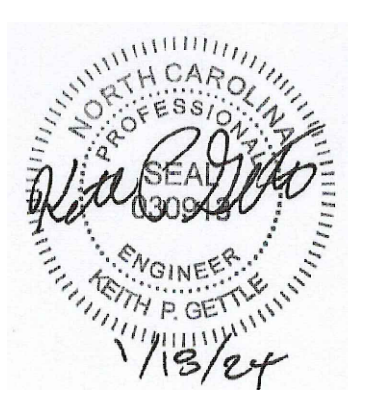
N/F DARRYL ROBERT HIGH D.B. 16886, PAGE 1682 PIN# 2706.18-21-9033

- NOTES**
- SEE SHEET C5 FOR GRADING NOTES.



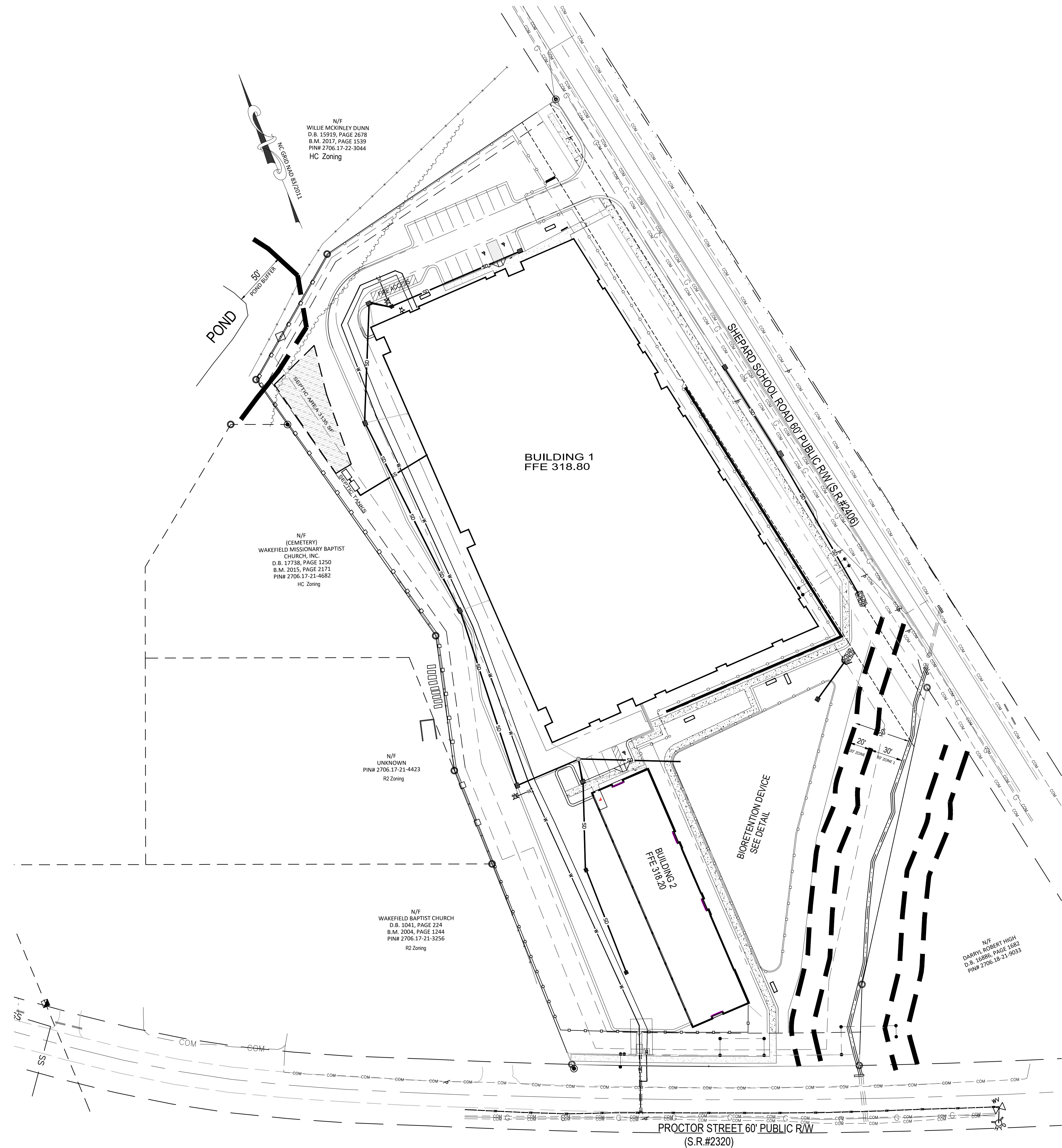
Gettle Engineering and Design, PLLC
 3616 Waxwing Court,
 Wake Forest, North Carolina 27587
 (919) 210-3934 Firm License P-2538

NO.	DATE	BY	REVISION DESCRIPTION
1	01/26/2024		Per Town Comment
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Grading - Enlarged South StorageMax (1098359)
 901 Proctor Street
 Zebulon, Wake County, North Carolina

Project No. 23001
 Dwg No. **C7**



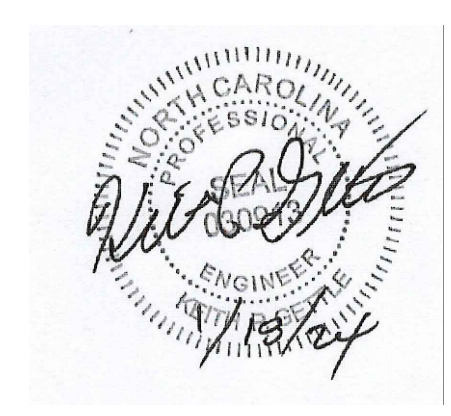
UTILITY SPECIFICATIONS

- EXISTING CONDITIONS**
- INFORMATION ABOUT EXISTING UNDERGROUND FACILITIES AND SUBSURFACE CONDITIONS INDICATED ON THESE DRAWINGS IS NOT BASED ON AN EXHAUSTIVE INVESTIGATION OF SUCH FACILITIES OR CONDITIONS, AND THE ENGINEER MAKES NO WARRANTY TO ANY PARTY REGARDING THEM. EXISTING UTILITY LINE LOCATIONS SHOWN SHOULD BE CONSIDERED APPROXIMATE, AND ACTUAL UTILITIES AND CONDITIONS MAY DIFFER FROM THOSE INDICATED. IF DIFFERING UTILITIES OR CONDITIONS EXIST, THEY MAY BE ENCOUNTERED DURING THE COURSE OF THE PROJECT WORK, AND MAY IMPACT THE PROJECT SCOPE AND TIME REQUIREMENTS.
- PROTECTION AND SAFETY**
- PRIOR TO BEGINNING WORK, AND AS NEEDED DURING THE COURSE OF PROJECT WORK, CONTRACTOR SHALL NOTIFY ALL APPLICABLE UTILITY LOCATION SERVICES AND UTILITY PROVIDERS TO REASONABLY VERIFY THE LOCATION OF ALL KNOWN OR SUSPECTED UTILITIES, IN ACCORDANCE WITH STATE REGULATIONS. CONTRACTOR IS ADVISED THAT SOME UTILITY PROVIDERS DO NOT SUBSCRIBE TO ONE-CALL SERVICES, AND MUST BE CONTACTED SEPARATELY.
 - CONTRACTOR SHALL PROVIDE ADEQUATE MEANS AND METHODS FOR PROTECTION OF ALL EXISTING UTILITIES AND SITE FEATURES WHICH ARE INTENDED TO REMAIN IN SERVICE OR IN PLACE.
 - CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROL MEASURES DURING THE COURSE OF PROJECT WORK IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS, THE N.C. SUPPLEMENT TO THE MUTCD, ANY REGULATORY AGENCY REQUIREMENTS, AND PROJECT-SPECIFIC SAFETY CONSIDERATIONS.
 - CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SAFETY PROGRAMS AND MEASURES ON THE PROJECT SITE OR OTHERWISE RELATING TO THE PROJECT WORK, AND SHALL COMPLY WITH ALL SAFETY CODES AND REGULATIONS APPLICABLE THERETO, FOR THE PROTECTION OF WORKERS, VISITORS, AND THE GENERAL PUBLIC.
- COMPLIANCE**
- ALL WATER SYSTEM AND SANITARY SEWER WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
 - REQUIREMENTS OF THE CITY OF RALEIGH INCLUDING THE LATEST EDITION OF CONSTRUCTION STANDARDS AND SPECIFICATIONS, CONSTRUCTION DETAILS, POLICIES AND PROCEDURES, AND FIELD DIRECTIVES BY THE UTILITY INSPECTOR.
 - REGULATIONS OF NCDENR DIVISION OF WATER QUALITY, INCLUDING NCAC 2T REGULATIONS AND MINIMUM DESIGN CRITERIA FOR TRENCHING OF GRAVITY SEWERS.
 - REGULATIONS OF NCDENR-PUBLIC WATER SUPPLY, RULES GOVERNING PUBLIC WATER SYSTEMS.
 - STREET RIGHT-OF-WAY ENCROACHMENT PERMIT REQUIREMENTS, AS APPLICABLE.
 - OSHA REQUIREMENTS RELATED TO SAFETY.
 - REQUIREMENTS OF THE N.C. PLUMBING CODE.
- NOTIFICATIONS**
- NOTIFY THE ENGINEER AT LEAST TWO BUSINESS DAYS PRIOR TO BEGINNING OR RESUMING WATERLINE OR SANITARY SEWER WORK. THE ENGINEER MUST OBSERVE CONNECTIONS, INSTALLATION, BACKFILLING, AND TESTING WORK IN ORDER TO PROVIDE NECESSARY PROJECT CERTIFICATIONS AND CLOSE-OUT DOCUMENTS.
 - NOTIFY THE APPLICABLE UTILITY AND ROADWAY AUTHORITIES IN ACCORDANCE WITH THEIR REQUIREMENTS PRIOR TO BEGINNING UTILITY WORK.
 - NOTIFY THE GEOTECHNICAL ENGINEER AND TESTING SERVICE AT LEAST TWO BUSINESS DAYS PRIOR TO BEGINNING OR RESUMING TRENCHING OR BACKFILLING WORK.
- TRENCHING AND BACKFILLING**
- WHERE ROCK OR OTHER HARD MATERIAL OCCURS AT THE DESIGNED TRENCH BOTTOM, OVEREXCAVATE TRENCH DEPTH 6 INCHES AND REPLACE OVEREXCAVATION MATERIAL WITH #67 STONE BEDDING.
 - WHERE THE DESIGNED TRENCH BOTTOM CONSISTS OF UNSUITABLE BEARING SOIL, UNDERCUT TRENCH BOTTOM AND REPLACE UNDERCUT MATERIAL IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
 - BACKFILL SOIL SHALL BE SUITABLE MATERIAL AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
 - BACKFILL SOIL SHALL BE PLACED IN LOOSE LIFTS OF 8 INCH MAXIMUM THICKNESS AND COMPACTED TO 98% OF THE SOIL'S MAXIMUM DRY DENSITY, WITHOUT DAMAGING PIPE.
 - INSTALL MARKING TAPE OR TRACER WIRE OVER UTILITY LINES AS REQUIRED BY THE LOCAL UTILITY AUTHORITY.
- STORAGE AND HANDLING**
- PIPING, FITTINGS, GASKETS, AND OTHER MATERIALS SHALL BE KEPT CLEAN WHILE BEING STORED AND DURING CONSTRUCTION ACTIVITIES. PIPE BUNDLES SHALL BE STORED ON FLAT SURFACES WITH UNIFORM SUPPORT, AND PROTECTED FROM PROLONGED EXPOSURE TO SUNLIGHT WITH A COVERING ALLOWING AIR FLOW UNDERNEATH. GASKETS SHALL NOT BE EXPOSED TO OIL, GREASE, OZONE, EXCESSIVE HEAT OR DIRECT SUNLIGHT. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR STORAGE AND HANDLING OF ALL MATERIALS.
- WATER SYSTEM**
- PROVIDE ALL WATER SYSTEM MATERIALS IN ACCORDANCE WITH LOCAL WATER AUTHORITY REQUIREMENTS.
 - INSTALL WATERLINES TO PROVIDE 3" COVER TO FINISHED GRADE, UNLESS OTHERWISE SHOWN OR APPROVED BY THE ENGINEER AND INSPECTOR.
 - ALL WATERLINE BENDS, CROSSES, TEES, AND ENDS SHALL BE RESTRAINED USING CONCRETE BLOCKING OR A MECHANICAL JOINT WEDGE-ACTION RESTRAINT SYSTEM RATED FOR 350 PSI.
 - DO NOT OPERATE WATER SYSTEM VALVES WITHOUT PERMISSION OF THE WATER AUTHORITY.
 - CONTRACTOR SHALL COORDINATE EXACT FIRE HYDRANT, WATER METER, AND BACKFLOW PREVENTER LOCATIONS WITH WATER AUTHORITY INSPECTOR PRIOR TO INSTALLATION.
- BACKFLOW PREVENTION**
- BACKFLOW PREVENTER ASSEMBLIES AND ENCLOSURES SHALL CONFORM TO ALL LOCAL WATER AUTHORITY REQUIREMENTS, AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL PROVIDE INITIAL TESTING AND CERTIFICATIONS AS REQUIRED FOR ACCEPTANCE.
- FIRE PROTECTION**
- WATER MAINS SHALL BE INSTALLED AND MADE OPERATIONAL AS SOON AS PRACTICAL TO PROVIDE ACTIVE FIRE HYDRANT SERVICE DURING BUILDING CONSTRUCTION.
 - COORDINATE TYPE AND LOCATION OF HYDRANTS, FIRE DEPARTMENT CONNECTIONS, AND OTHER FIRE PROTECTION SYSTEM COMPONENTS WITH LOCAL FIRE CODE OFFICIAL PRIOR TO INSTALLATION.
- UTILITY SPECIFICATIONS (cont.)**
- SANITARY SEWER**
- SANITARY SEWER MAIN PIPING SHALL BE DUCTILE IRON PIPE PER AWWA C151, PRESSURE CLASS 350, WITH INTERIOR EPOXY LINING AND EXTERIOR BITUMINOUS SEAL. JOINTS SHALL BE PUSH-ON TYPE WITH RUBBER GASKETS PER AWWA C111.
 - SANITARY SEWER MAIN PIPING SHALL BE PVC PIPE PER ASTM D3034, SDR 35. JOINTS SHALL BE PUSH-ON TYPE WITH RUBBER GASKETS PER ASTM F417.
 - SANITARY SEWER MAINS SHALL BE INSTALLED WITH 36 INCHES MINIMUM COVER TO FINISHED GRADE, EXCEPT AS OTHERWISE SPECIFIED.
 - SANITARY SEWER SERVICE LINES AND CLEANOUTS SHALL BE INSTALLED IN ACCORDANCE WITH THE N.C. PLUMBING CODE, AND HAVE 24 INCHES MINIMUM COVER TO FINISHED GRADE. SERVICE LINES SHALL MAINTAIN MAXIMUM SERVICE DEPTH USING A 2.1% SLOPE UNLESS OTHERWISE SPECIFIED.
 - SERVICE PIPE AND FITTINGS WITHIN PUBLIC STREET RIGHTS-OF-WAY SHALL BE CAST IRON WITH GASKETED JOINTS, AND IN OTHER AREAS SHALL BE SCHEDULE 40 PVC WITH SOLVENT WELDED JOINTS. EXCEPT ALL CLEANOUTS SHALL BE FITTED WITH THREADED BRONZE PLUGS.
 - SERVICE LINE CLEANOUTS IN VEHICULAR AREAS SHALL BE TRAFFIC BEARING CLEANOUTS.
- CONNECTIONS**
- FOR CONNECTIONS TO EXISTING UTILITY AND DRAINAGE LINES, CONTRACTOR SHALL VERIFY EXISTING PIPE SIZE AND MATERIAL, AND PROVIDE APPROPRIATE CONNECTION FITTINGS.
 - ANY CONNECTION TO EXISTING UTILITIES, OR ANY UTILITY SERVICE INTERRUPTION, SHALL BE FIRST COORDINATED WITH THE GOVERNING UTILITY AUTHORITY, AND PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THAT AUTHORITY.
- TESTING AND ACCEPTANCE**
- THE GEOTECHNICAL ENGINEER SHALL PROVIDE MATERIAL AND DENSITY TESTING DURING THE COURSE OF THE WORK, PRIOR TO PLACEMENT OF ANY BASE OR PAVEMENT. CONTRACTOR SHALL PROVIDE PROOF-ROLLING OF ALL TRENCH AREAS TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
 - PRIOR TO ANY SANITARY SEWER OR WATER SYSTEM IMPROVEMENTS BEING PLACED INTO SERVICE:
 - CONTRACTOR SHALL SUCCESSFULLY TEST ALL WATER MAINS FOR WATER LEAKAGE AND WATER QUALITY IN ACCORDANCE WITH CITY OF RALEIGH AND NCDENR REQUIREMENTS.
 - CONTRACTOR SHALL SUCCESSFULLY TEST ALL SANITARY SEWER MAINS FOR DEFLECTION AND LEAKAGE, AND TEST ALL SANITARY MANHOLES FOR LEAKAGE, IN ACCORDANCE WITH CITY OF RALEIGH AND NCDENR REQUIREMENTS.
 - CONTRACTOR SHALL PERFORM VIDEO INSPECTION OF INSTALLED SANITARY SEWER MAINS AND PROVIDE DOCUMENTATION PER LOCAL REQUIREMENTS.
 - CONTRACTOR SHALL PROVIDE TO ENGINEER A SET OF MARKED UP DRAWINGS SHOWING UTILITY CHANGES, DIMENSIONAL ADJUSTMENTS, DISCOVERED SUBSURFACE UTILITIES, AND OTHER AS-BUILT INFORMATION.
 - CONTRACTOR SHALL PROVIDE DOCUMENTATION OF ALL TESTING RESULTS TO ENGINEER.
 - ALL IMPROVEMENTS SHALL PASS FINAL INSPECTION BY ENGINEER AND THE UTILITY AUTHORITY.
 - ENGINEER SHALL SUBMIT ALL CERTIFICATIONS AND OTHER CLOSE-OUT DOCUMENTS TO APPLICABLE LOCAL AND STATE AUTHORITIES.
- OTHER**
- CONTRACTOR SHALL PROVIDE PRIMARY COORDINATION WITH UTILITY SERVICE PROVIDERS FOR BUILDING UTILITY SERVICES. THIS WORK SHALL INCLUDE MARKING APPLICATIONS FOR SERVICE, COORDINATING AND SCHEDULING WORK BY OTHERS, VERIFYING ROUTINGS AND EQUIPMENT LOCATIONS, FURNISHING AND INSTALLING CONDUIT AND PADS, AND RELATED WORK AS NEEDED.
 - CONTRACTOR SHALL PROVIDE PROPER RESTORATION AND CLEAN-UP OF ALL AREAS DISTURBED BY UTILITY CONSTRUCTION.

STANDARD UTILITY NOTES:

- All materials & construction methods shall be in accordance with City of Raleigh design standards, details & specifications (reference: CORPUD Handbook, current edition)
- Utility separation requirements:
 - 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 possible to obtain proper separation, or anytime a sanitary sewer passes over a watermain, DIP materials or steel encasement 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 18" 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-19)
 - 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 Raleigh Public Utilities Department prior to construction
- Developer shall provide 30 days advance written notice to owner for any work required within an existing City of Raleigh Utility Easement traversing private property
- 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 Raleigh 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 Raleigh Public Utilities Department. This includes abandoning tap at main & removal of service from ROW or easement per CORPUD Handbook procedure
- Install 1/2" copper water services with meters located at ROW or within a 2' x 2' 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 1" 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
- All environmental permits applicable to the project must be obtained from NCDWQ, USACE &/or FEMA for any riparian buffer, wetland &/or floodplain impacts (respectively) prior to construction
- NCDOT / Railroad Encroachment Agreements are required for any utility work (including main extensions & service taps) within state or railroad ROW prior to construction
- Grease Interceptor / Oil Water Separator sizing calculations & installation specifications shall be approved by the RW FOG Program Coordinator prior to issuance of a UC / Bldg Permit. Contact (919) 996-4516 or fog@raleighnc.gov for more information
- 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 Southern 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. A Certificate of Compliance shall also be obtained from the RW Cross-connection Coordinator for each device prior to issuance of a UC / Bldg Permit. Contact (919) 996-5923 or cross.connection@raleighnc.gov for more information

NO	DATE	REVISION DESCRIPTION
1	01-05-2024	Per Town Comment
2	DATE	COMMENT
3	DATE	COMMENT
4	DATE	COMMENT
5	DATE	COMMENT
6	DATE	COMMENT
NO	DATE	REVISION DESCRIPTION



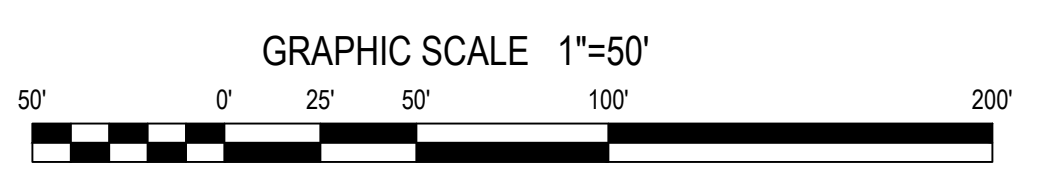
NOTES

- SEE SHEETS C6 AND C7 FOR STORM DRAIN SCHEDULE.

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and contractors are each responsible for compliance with all applicable City, State and Federal laws. This specific authorization before is not a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All Construction must be in accordance with all local, State, and Federal Rules and Regulations.

(Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh 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 left 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 Raleigh Development Approval _____
City of Raleigh Review Officer

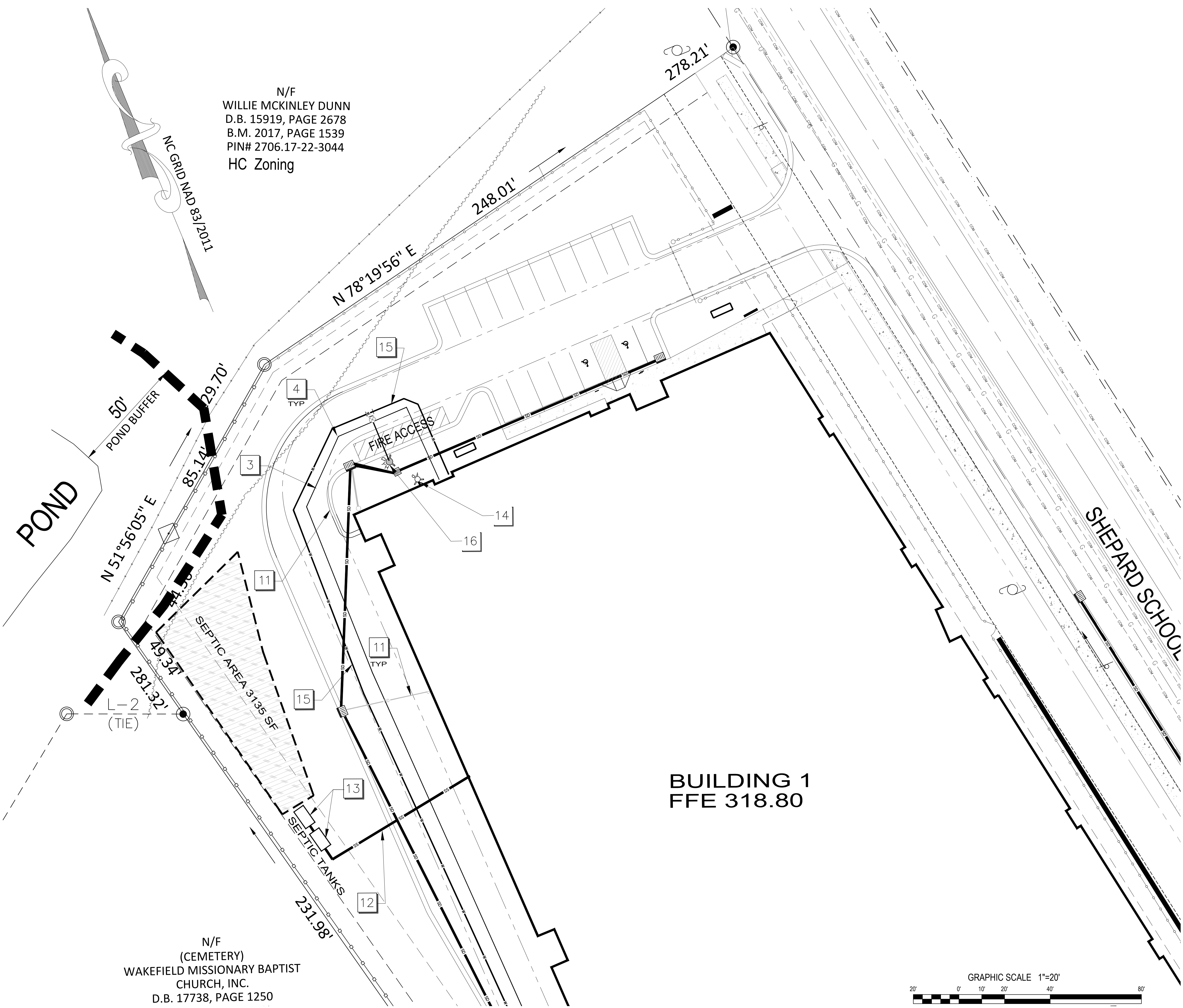
Gettle Engineering and Design, PLLC
3616 Waxwing Court,
Wake Forest, North Carolina 27587
Firm License P-2538
(919) 210-3934

Utility Plan - Overall
StorageMax (1098359)
901 Proctor Street
Zebulon, Wake County, North Carolina

Project No. 23001
Dwg No. **C8**

N/F
WILLIE MCKINLEY DUNN
D.B. 15919, PAGE 2678
B.M. 2017, PAGE 1539
PIN# 2706.17-22-3044
HC Zoning

N/F
(CEMETERY)
WAKEFIELD MISSIONARY BAPTIST
CHURCH, INC.
D.B. 17738, PAGE 1250



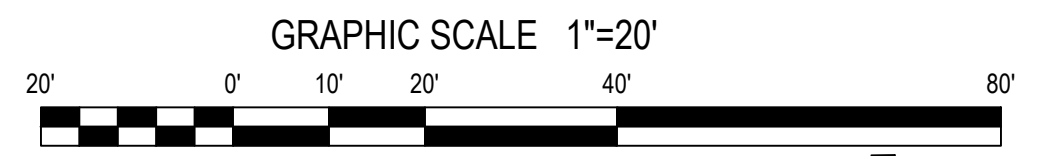
- KEY**
- KEYED NOTES UTILITY PLAN**
- 1 12" EXISTING WATER LINE LOCATION SHOWN IS APPROXIMATE. COORDINATE WITH CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PRIOR TO STARTING WATERLINE CONSTRUCTION. CONFORM TO ALL WATER AUTHORITY STANDARDS AND REQUIREMENTS, AND TO ALL RIGHT-OF-WAY ENCROACHMENT CONDITIONS. VERIFY EXISTING PIPE SIZE AND MATERIAL, AND NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCIES.
 - 2 2" CORPORATION STOP.
 - 3 2" COPPER SERVICE LINE
 - 4 90 DEGREE, OR 45 DEGREE, OR 22.5 DEGREE MJ BEND AND RESTRAINT.
 - 5 16" CASING PIPE FOR WATER SERVICE LINE - BORE AND JACK
 - 6 EXISTING WATER METER TO BE REMOVED / ABANDONED
 - 7 6" BACKFLOW PREVENTER DEVICE (RPDA), RALEIGH APPROVED, LOCATED IN AN 'ABOVE GROUND' HEATED ENCLOSURE.
 - 8 6"x6" TAPPING SLEEVE AND 6" GATE VALVE
 - 9 2" WATER METER - SEE COR DETAIL
 - 10 2" RP BACKFLOW ASSEMBLIES BY WATTS OR APPROVED EQUAL
 - 11 PVC DOWNSPOUT PIPE HEADER. TIE INTO STORM DRAIN STRUCTURE. FIELD VERIFY LOCATION / ELEVATION
 - 12 4" PVC, SDR-35, PRIVATE SANITARY SEWER LATERAL TO SEPTIC SYSTEM
 - 13 SANITARY SEWER SEPTIC TANKS
 - 14 FIRE DEPARTMENT CONNECTION TYPE SHALL BE 5 INCH STORZ, WITH MJ FITTINGS AS NEEDED.
 - 15 6" DUCTILE IRON PIPE WATER LINE, 36" BELOW FINISH GRADE
 - 16 FIRE HYDRANT ASSEMBLY WITH 6" VALVE AND BOX. SEE COR DETAIL W4.
 - 17 WATER SERVICE LINE - BORE AND JACK
 - 18 20' x 30' BORE PIT

- NOTES**
1. SEE SHEETS C6 AND C7 FOR STORM DRAIN SCHEDULE.
 2. SEE SHEET C8 FOR UTILITY NOTES.

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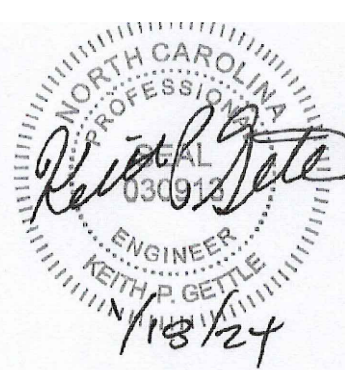
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City of Raleigh Development Approval _____
City of Raleigh Review Officer _____

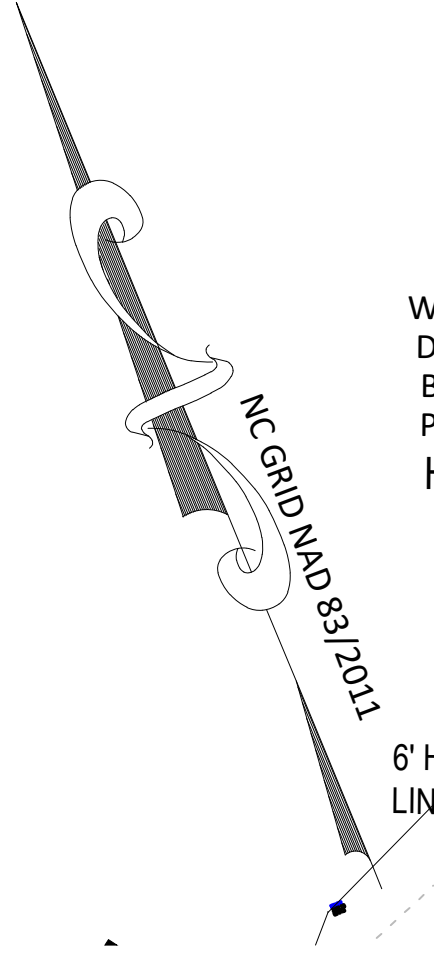
Gettle Engineering and Design, PLLC
3616 Waxwing Court,
Wake Forest, North Carolina 27587
(919) 210-3934 Firm License P-2538

NO.	DATE	BY	REVISION DESCRIPTION
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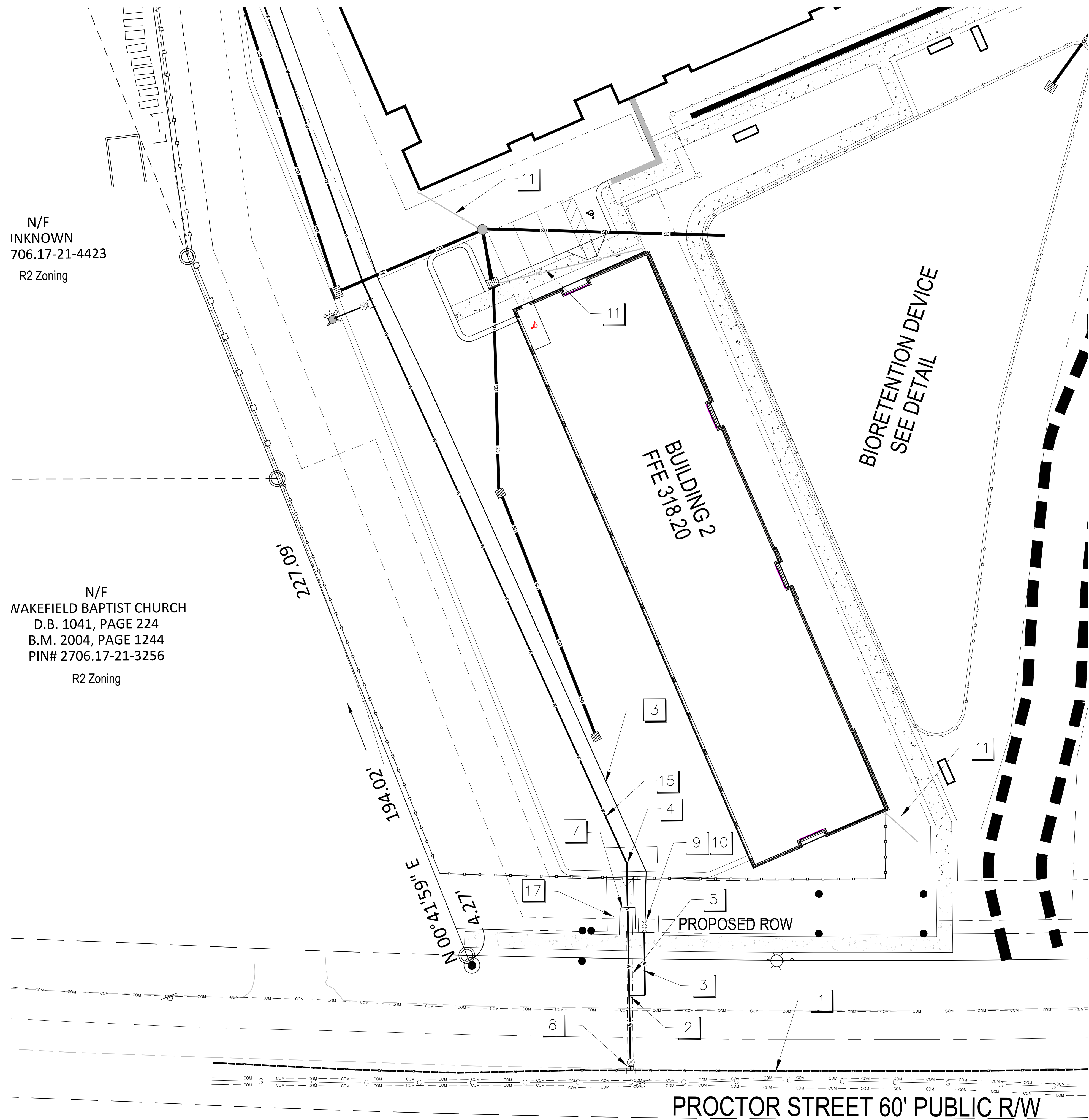
Utility Plan-Enlarged North StorageMax (1098359)
901 Proctor Street
Zebulon, Wake County, North Carolina

Project No. 23001
Dwg No. **C9**



N/F
INKNOWN
706.17-21-4423
R2 Zoning

N/F
MAKEFIELD BAPTIST CHURCH
D.B. 1041, PAGE 224
B.M. 2004, PAGE 1244
PIN# 2706.17-21-3256
R2 Zoning



- KEY**
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 - 17 WATER SERVICE LINE - BORE AND JACK
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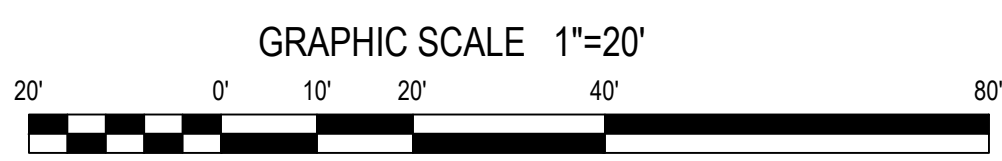
- NOTES**
- SEE SHEETS C6 AND C7 FOR STORM DRAIN SCHEDULE.
 - SEE SHEET C8 FOR UTILITY NOTES.

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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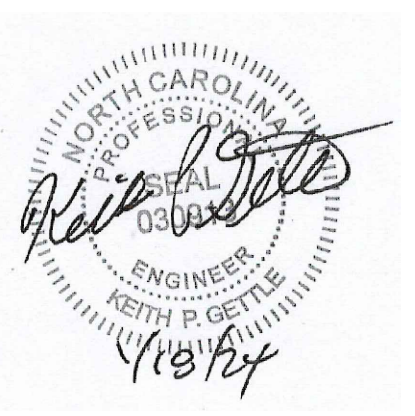
City of Raleigh Development Approval _____
City of Raleigh Review Officer _____



PROCTOR STREET 60' PUBLIC R/W
(S.R.#2320)

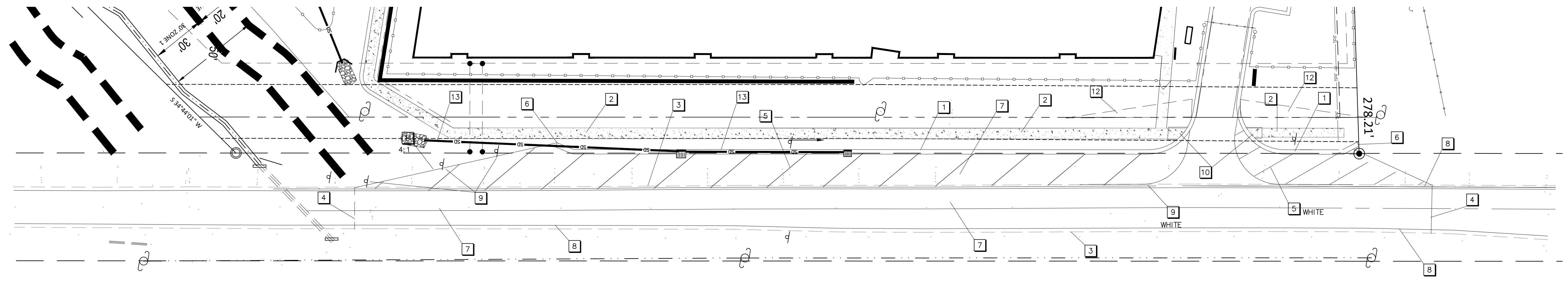
Gettle Engineering and Design, PLLC
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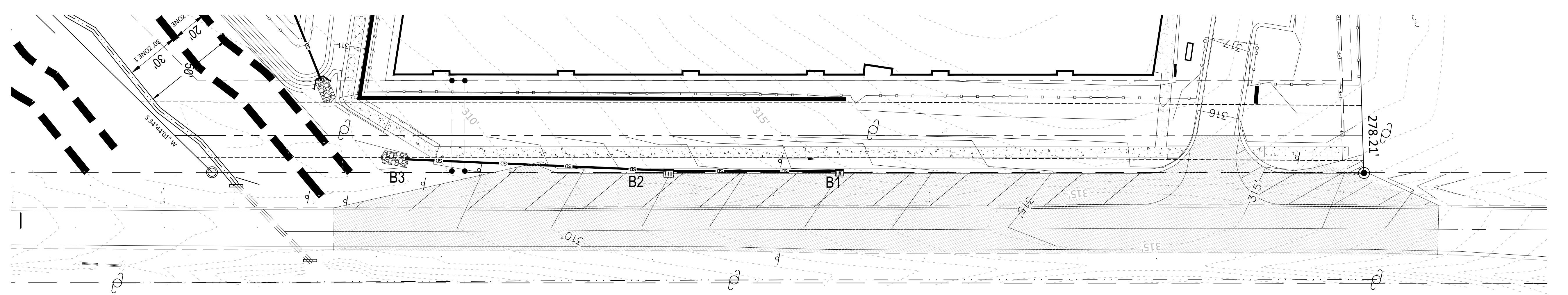
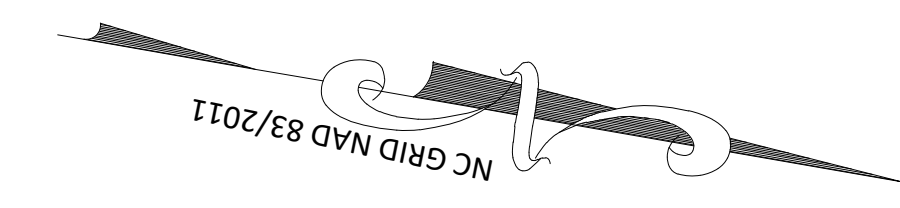
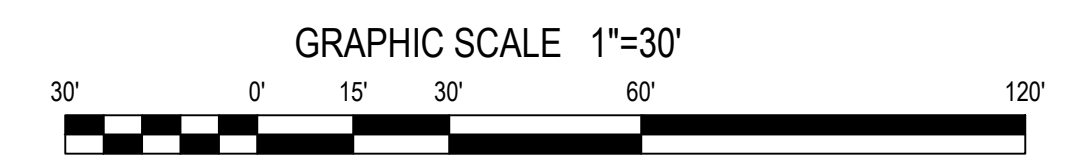


Utility Plan - South Enlarged StorageMax (1098359)
901 Proctor Street
Zebulon, Wake County, North Carolina

Project No. 23001
Dwg No. **C10**

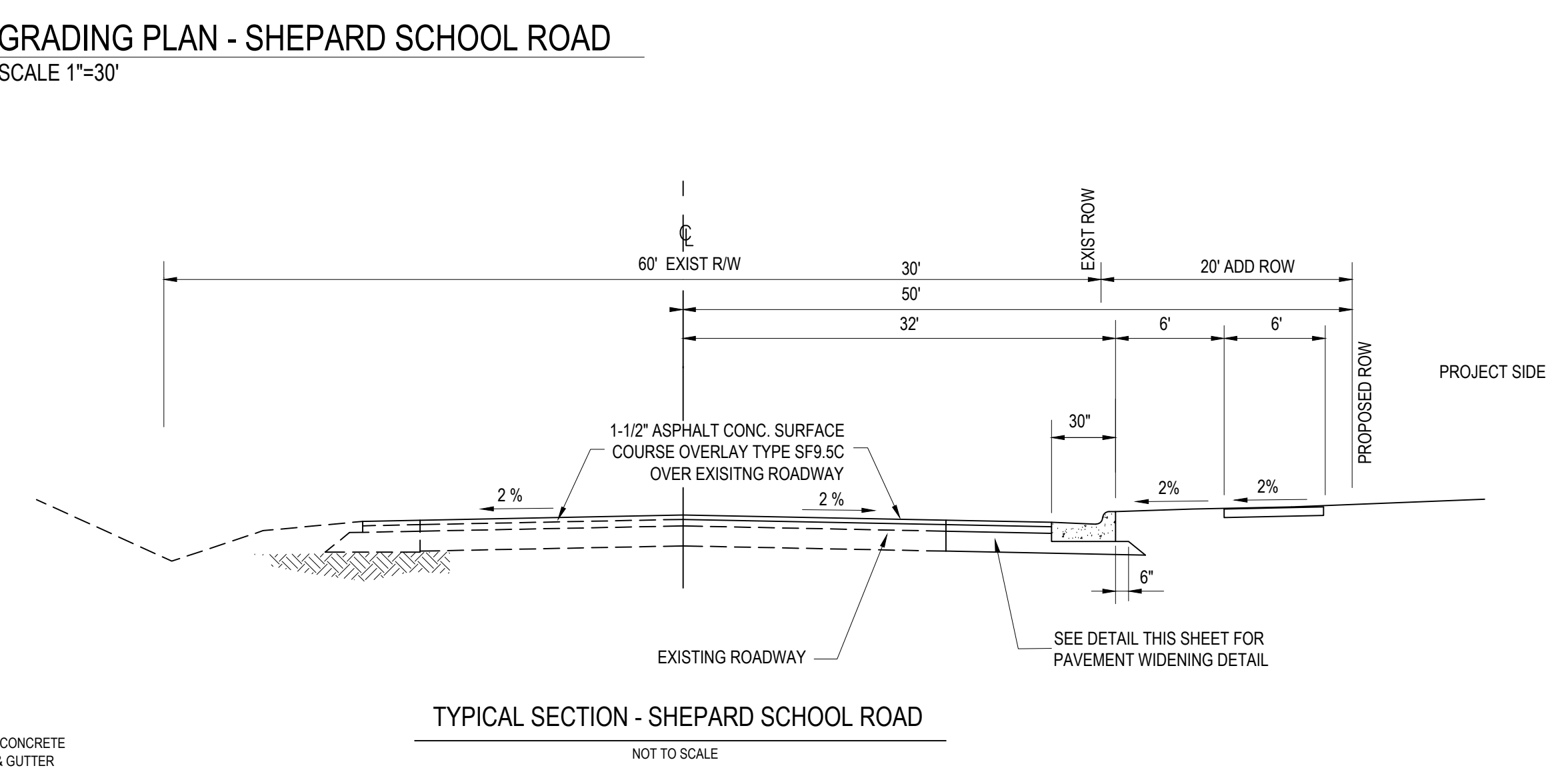
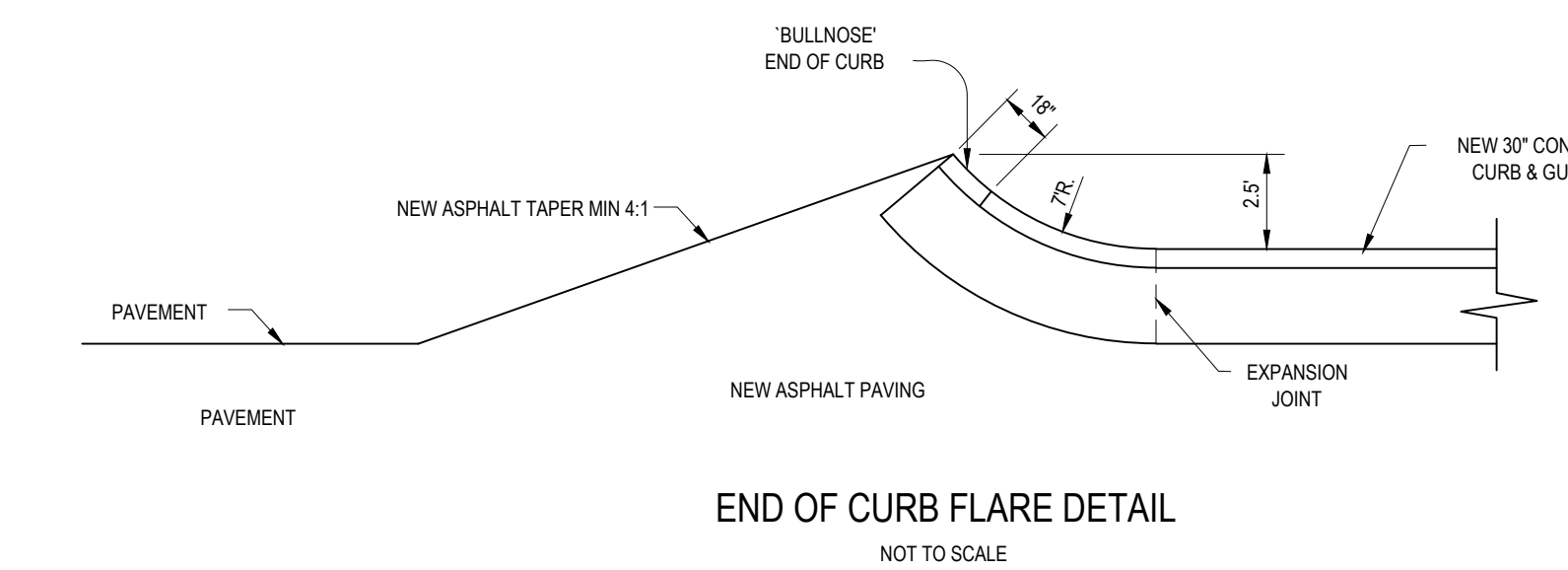
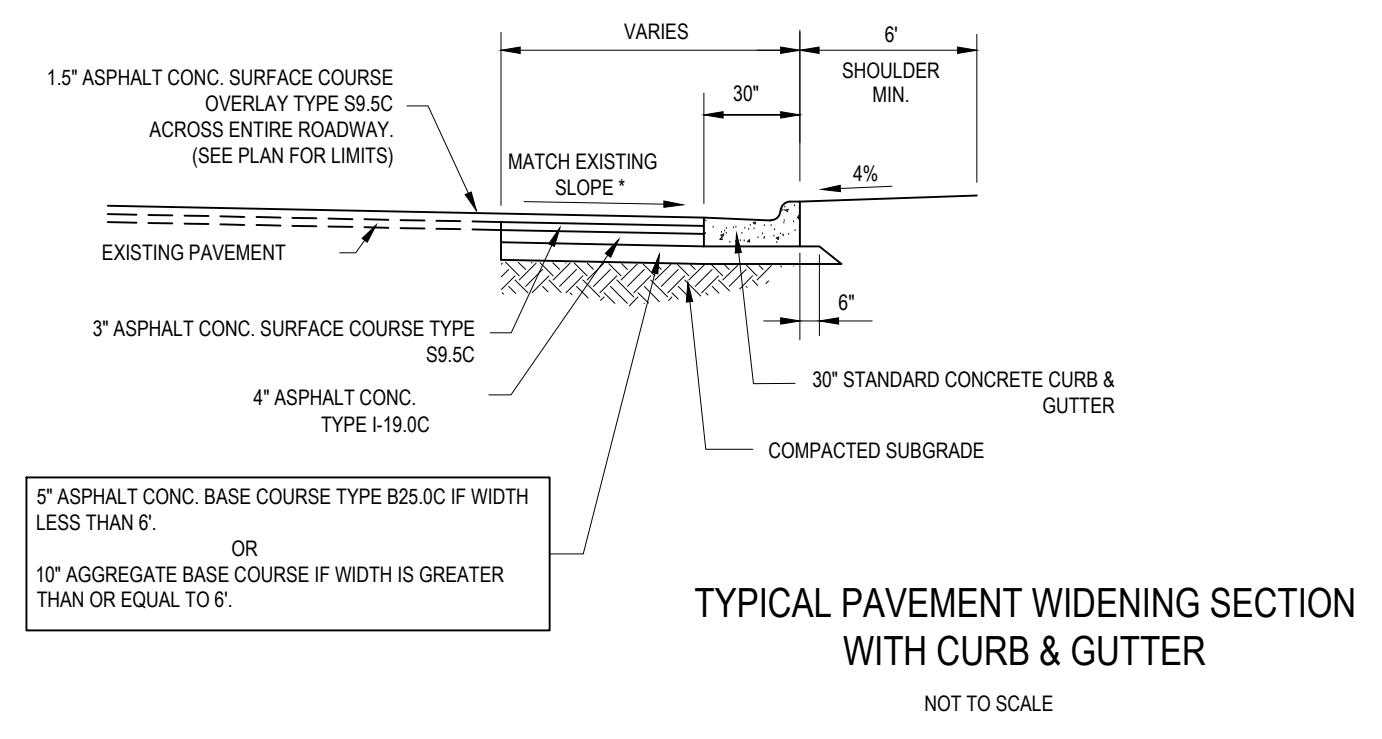


STRIPING PLAN - SHEPARD SCHOOL ROAD
SCALE 1"=30'



GRADING PLAN - SHEPARD SCHOOL ROAD
SCALE 1"=30'

KEY	KEYED NOTES ROAD WIDENING PLAN
1	30" STANDARD CURB AND GUTTER WITHIN PUBLIC RIGHT-OF-WAY.
2	4" THICK CONCRETE 6' WIDE SIDEWALK
3	EXISTING EDGE OF PAVEMENT
4	TIE INTO EXISTING PAVEMENT - 25' MILL LIMITS WITH A BUTT JOINT
5	4" THERMOPLASTIC PAVEMENT MARKING - SEE NCDOT DETAIL 1205.09
6	FLARE OUT END OF CURB AND TAPER ASPHALT TO BACK OF CURB. SEE DETAIL
7	1.5" THICK BITUMINOUS PAVEMENT OVERLAY, NCDOT TYPE SF9.5C. OVER ENTIRE ROADWAY SEE TYPICAL SECTION.
8	EXISTING PAVEMENT EDGE MARKING
9	TYPE 3 OBJECT MARKER (OM3-R). SEE NCDOT DETAIL 1264.01
10	NCDOT TYPE 1 STANDARD HANDICAP ACCESS RAMP - SEE DETAIL
11	EDGE OF PAVEMENT - ASPHALT TAPER RATIO MIN 4:1
12	NCDOT / TOWN OF ZEBULON 10x70' SIGHT TRIANGLE
13	STORM DRAINAGE SYSTEM - SEE SCHEDULE

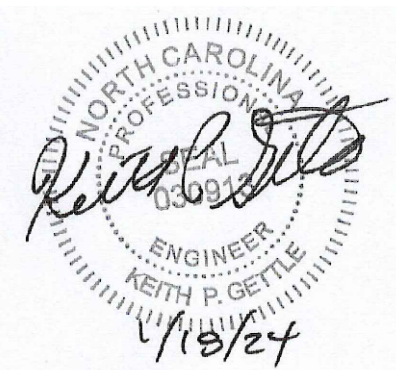


GENERAL NOTES

1. ALL WORK IN SHEPARD ROAD (SR 2406) SHALL COMPLY WITH NCDOT AND TOWN OF ZEBULON STANDARDS AND SPECIFICATIONS.
2. SEE SHEET D5 FOR TRAFFIC CONTROL DURING CONSTRUCTION.
- 3.
4. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST NCDOT SPECIFICATIONS, DETAILS, AND PERMIT REQUIREMENTS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL MEASURES FOR ALL WORK WITHIN PUBLIC R/W PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE SUPPLEMENT TO THE MUTCD AND LOCAL INSPECTORS DIRECTION.
6. ALL PERMANENT PAVEMENT MARKINGS AND STRIPING WITHIN SHEPARD ROAD RIGHT-OF-WAY SHALL BE THERMOPLASTIC IN ACCORDANCE WITH THE LATEST EDITION OF NCDOT SPECIFICATIONS SECTION 1205. ALL ONSITE MARKINGS AND STRIPING SHALL BE RETROREFLECTIVE PAINT.
7. ALL DIMENSIONS TO PAVEMENT MARKING LINES ARE TO THE CENTER OF SINGLE LINES OR TO THE CENTER BETWEEN DOUBLE LINES.
8. THE CONTRACTOR SHALL VERIFY ALL LANE MARKINGS WITH NCDOT PRIOR TO INSTALLATION.

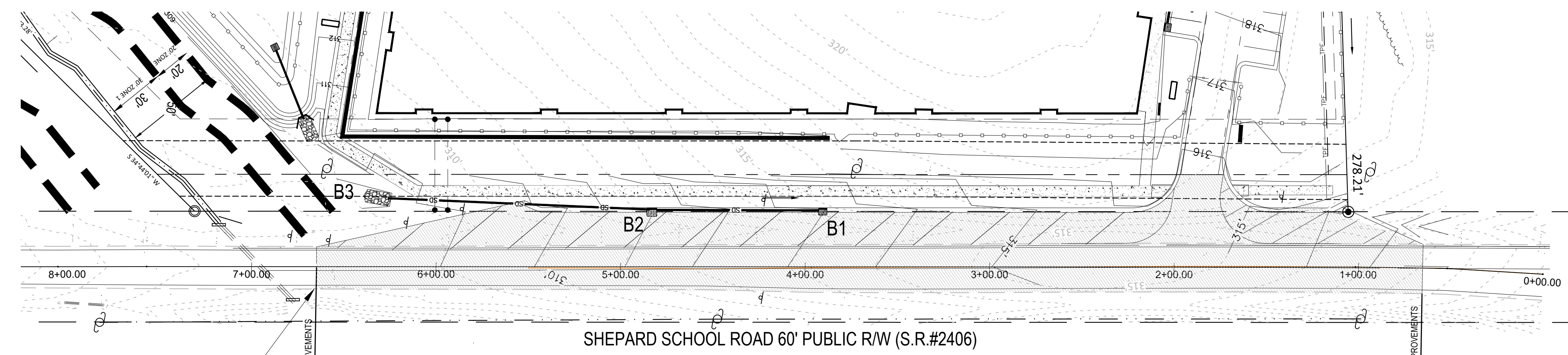
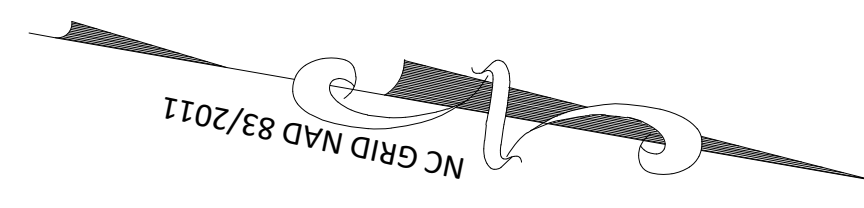
Gettle Engineering and Design, PLLC
3616 Waxwing Court,
Wake Forest, North Carolina 27587
(919) 210-3934 Firm License P-2538

NO.	DATE	BY	REVISION/DESCRIPTION
1	01-18-2024		
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Road Widen - Shepard School
StorageMax (1098359)
901 Proctor Street
Zebulon, Wake County, North Carolina

Project No. 23001
Dwg No. C11



TIE INTO THE SHEPARD SCHOOL ROADWORK PROJECT BY THE TOWN OF ZEBULON (NC 188673.08)

END ROAD IMPROVEMENTS STA. 6+48.82

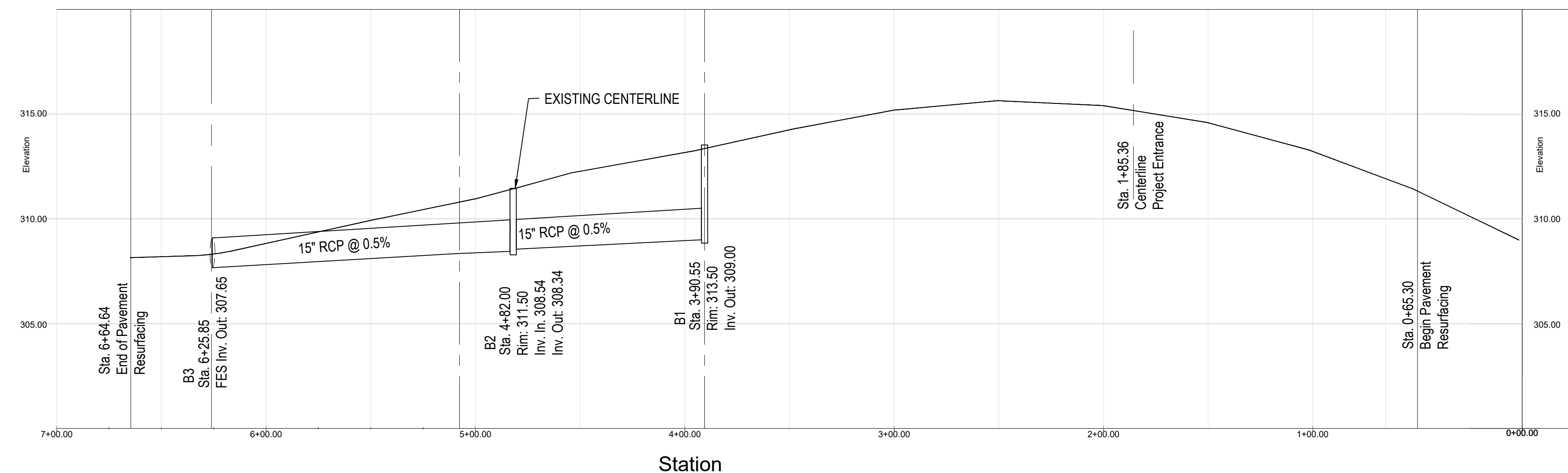
BEGIN ROAD IMPROVEMENTS STA. 0+63.35

SHEPARD SCHOOL ROAD PLAN

GRAPHIC SCALE
1" = 40' (H)



GRAPHIC SCALE



SHEPARD SCHOOL ROAD PROFILE

GRAPHIC SCALE
1" = 40' (H)
1" = 4' (V)

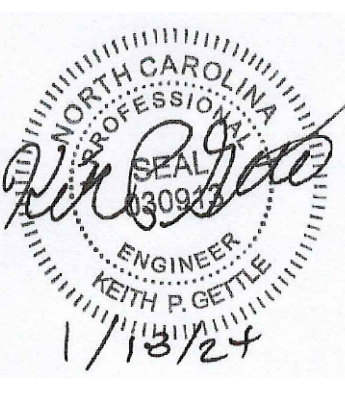


GRAPHIC SCALE

GENERAL NOTES

1. ALL WORK IN SHEPARD ROAD (SR 2406) SHALL COMPLY WITH NCDOT AND TOWN OF ZEBULON STANDARDS AND SPECIFICATIONS.
2. SEE SHEET D5 FOR TRAFFIC CONTROL DURING CONSTRUCTION.
4. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST NCDOT SPECIFICATIONS, DETAILS, AND PERMIT REQUIREMENTS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL MEASURES FOR ALL WORK WITHIN PUBLIC R/W PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE SUPPLEMENT TO THE THE MUTCD AND LOCAL INSPECTORS DIRECTION.
6. ALL PERMANENT PAVEMENT MARKINGS AND STRIPING WITHIN SHEPARD ROAD RIGHT-OF-WAY SHALL BE THERMOPLASTIC IN ACCORDANCE WITH THE LATEST EDITION OF NCDOT SPECIFICATIONS SECTION 1205. ALL ONSITE MARKINGS AND STRIPING SHALL BE RETROREFLECTIVE PAINT.
7. ALL DIMENSIONS TO PAVEMENT MARKING LINES ARE TO THE CENTER OF SINGLE LINES OR TO THE CENTER BETWEEN DOUBLE LINES.
8. THE CONTRACTOR SHALL VERIFY ALL LANE MARKINGS WITH NCDOT PRIOR TO INSTALLATION.

NO.	DATE	BY	COMMENT
1	01-15-2024		Per Town Comment
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Shepard School - Plan & Profile

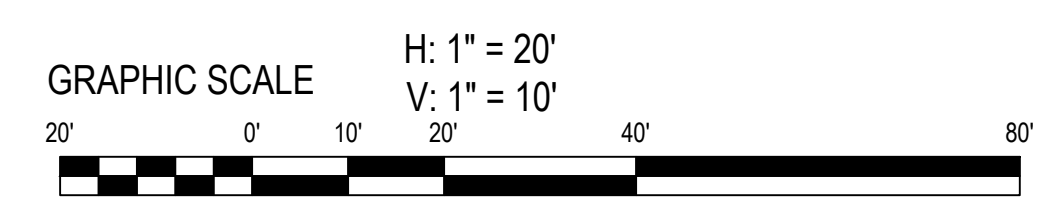
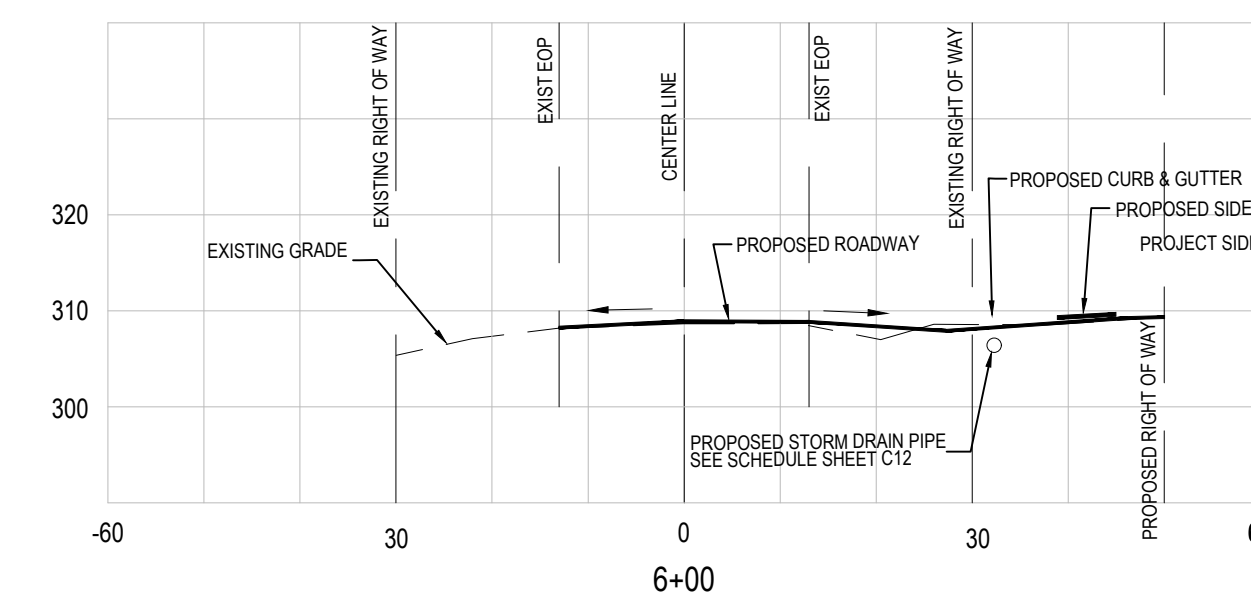
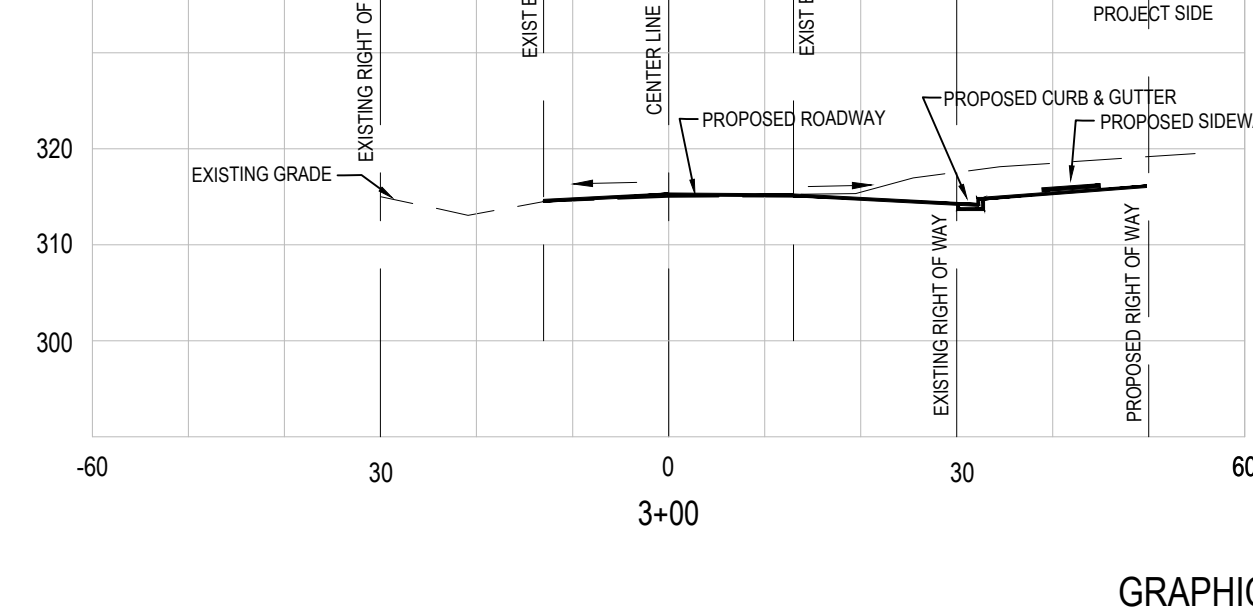
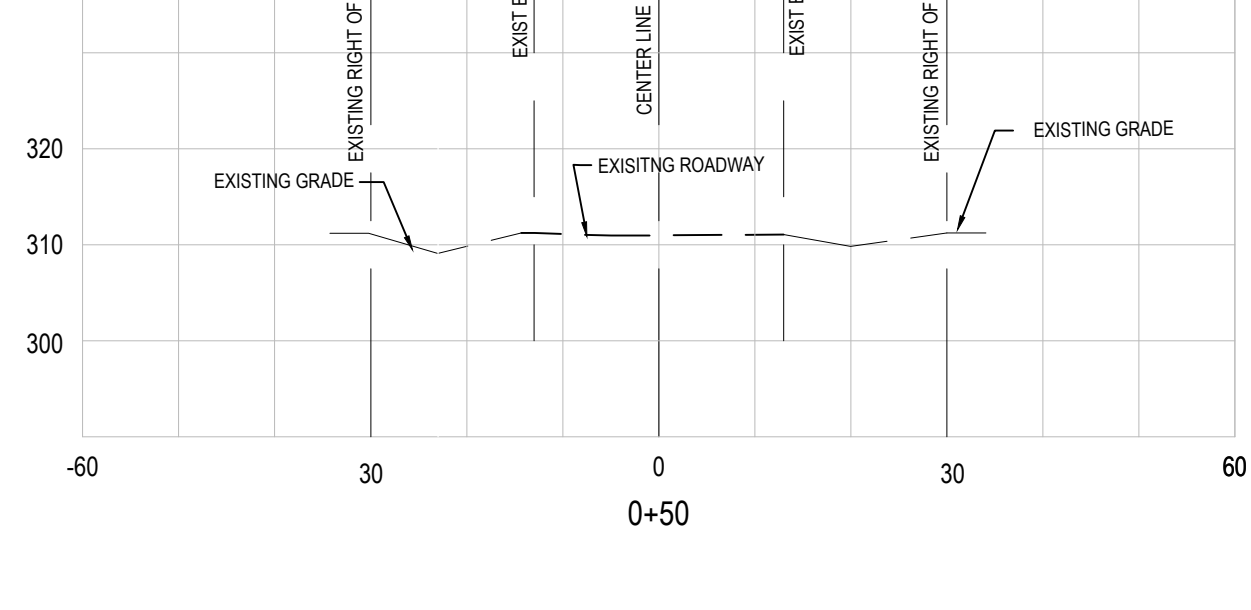
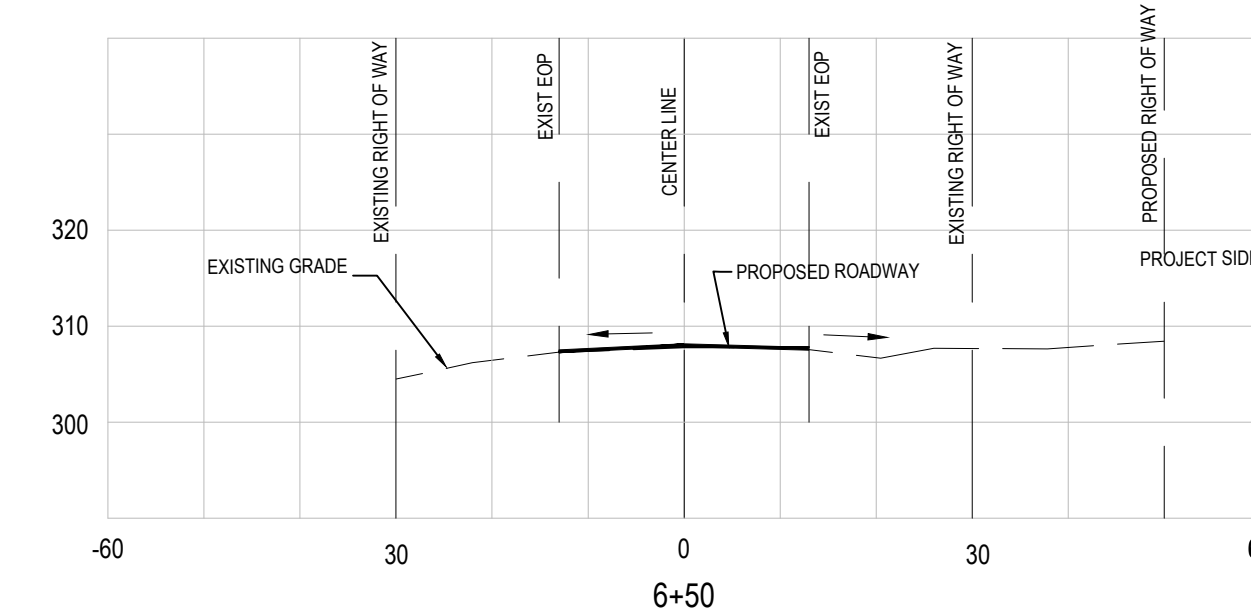
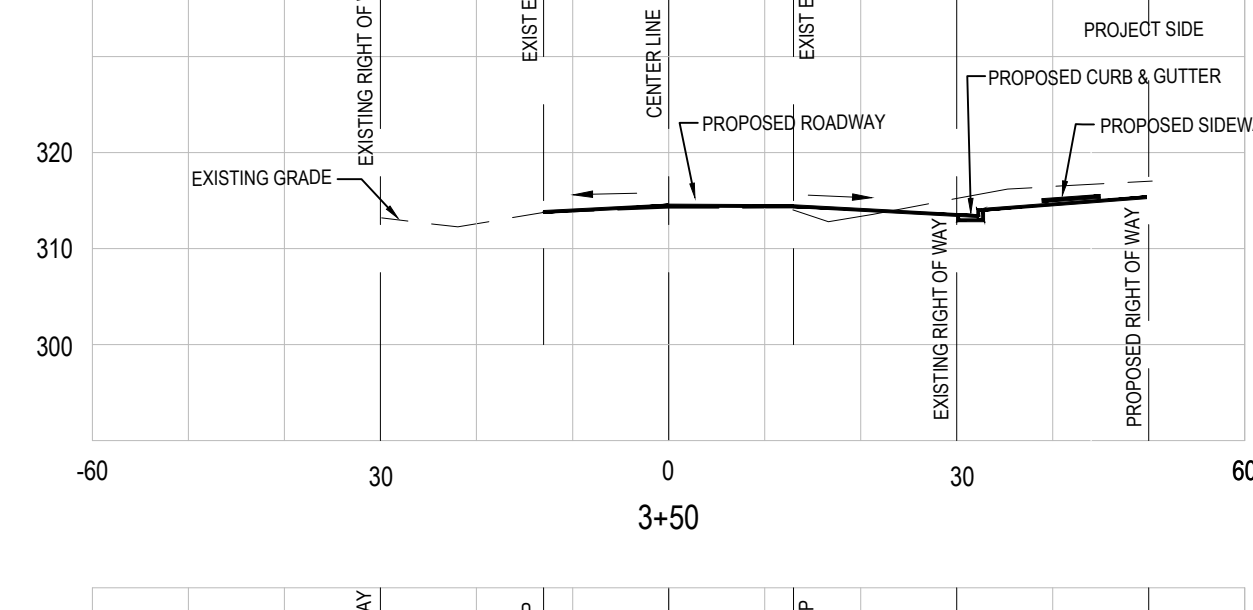
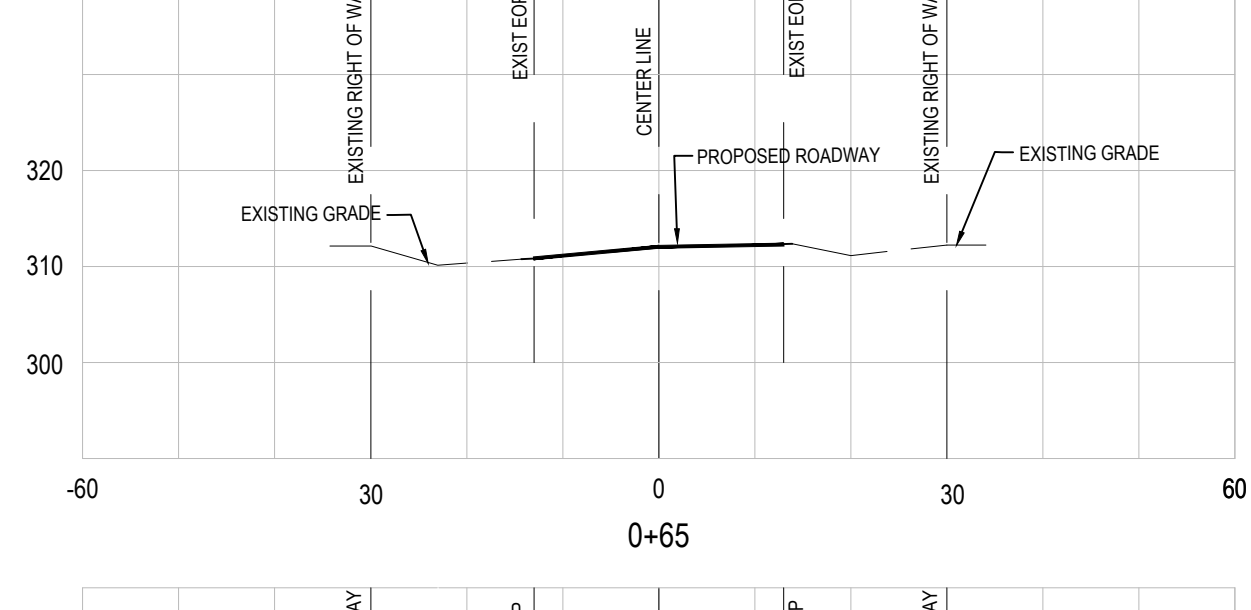
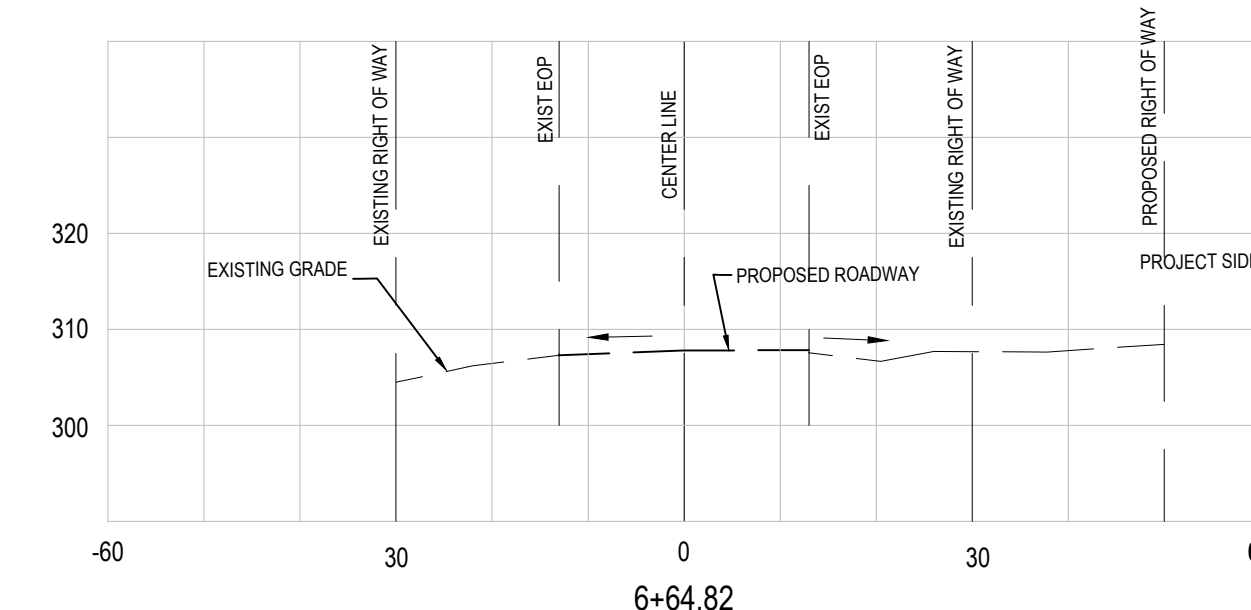
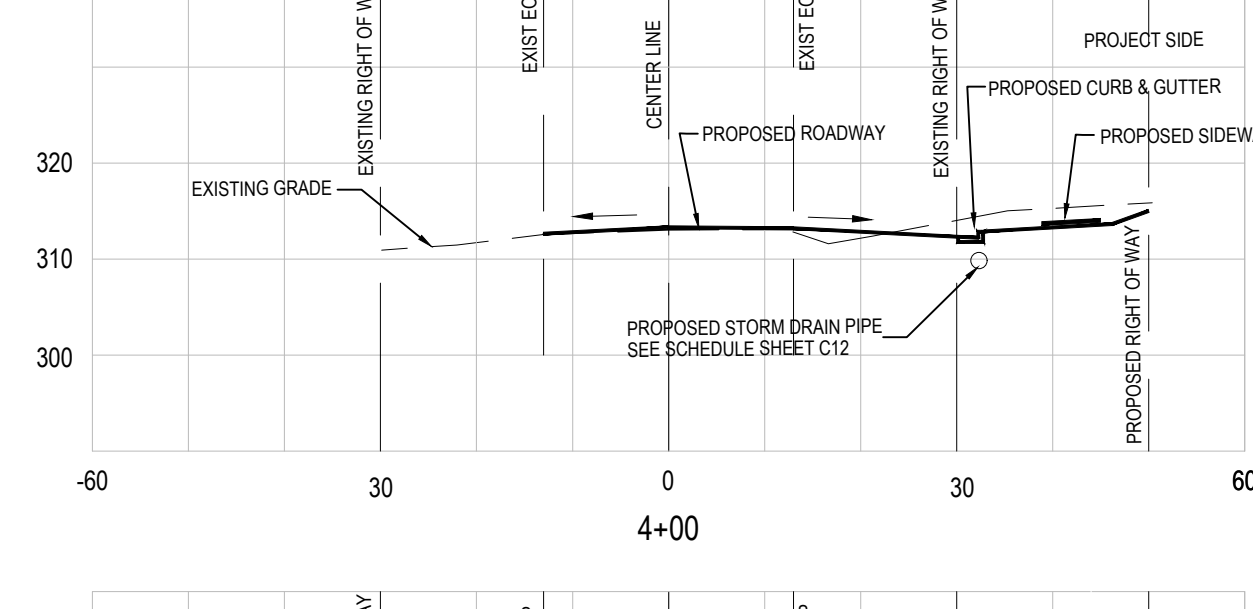
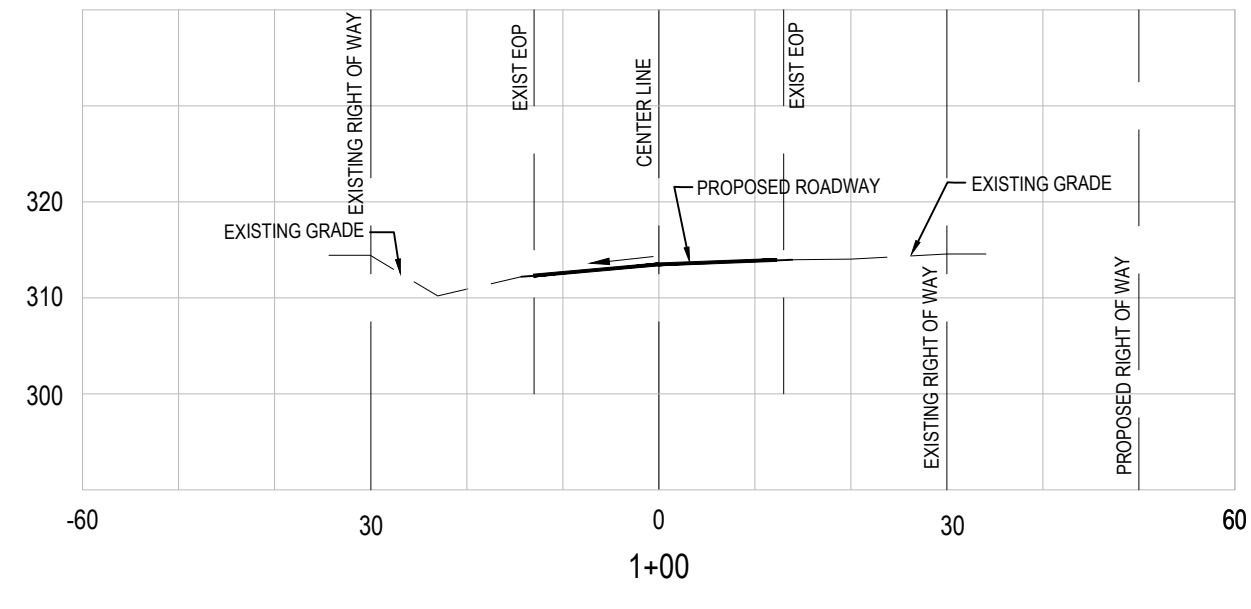
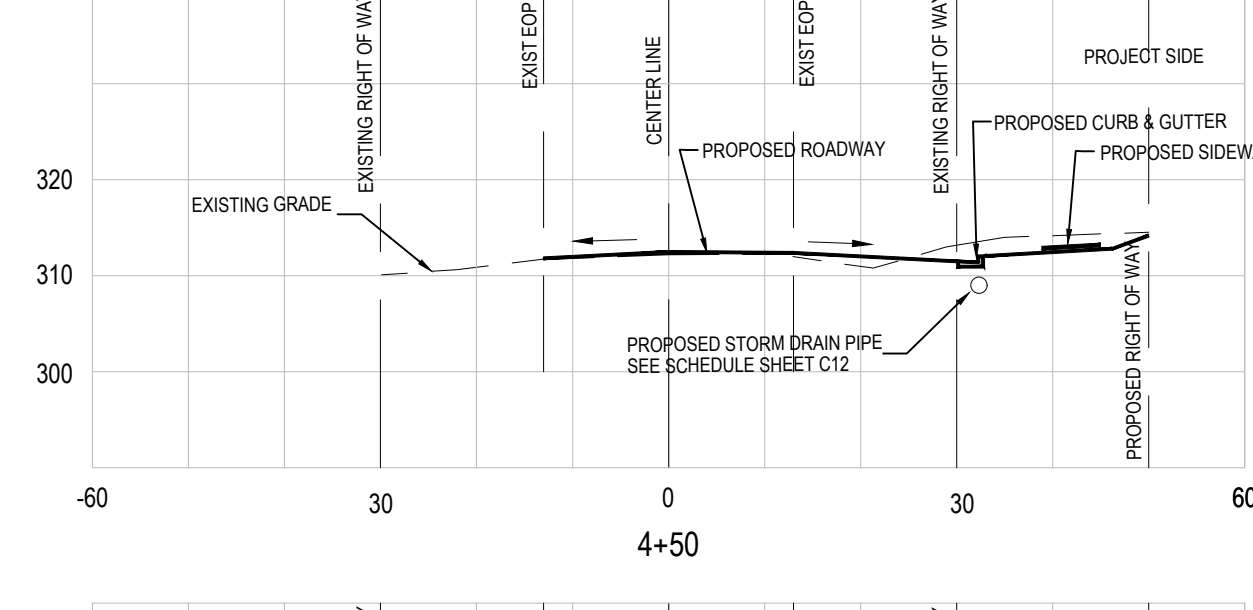
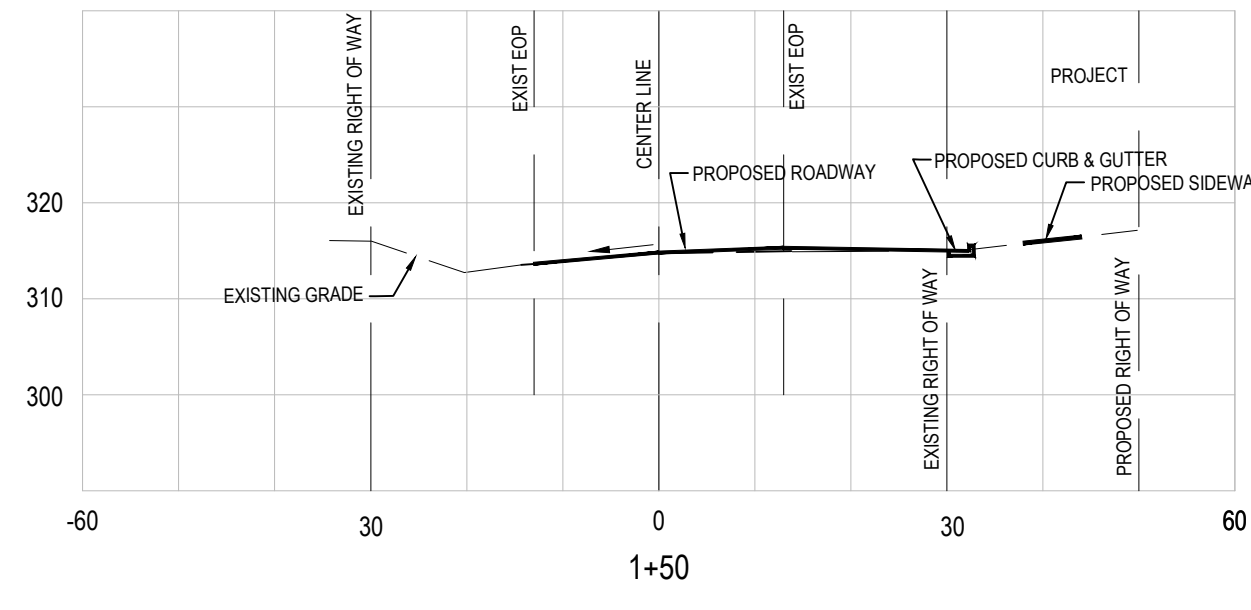
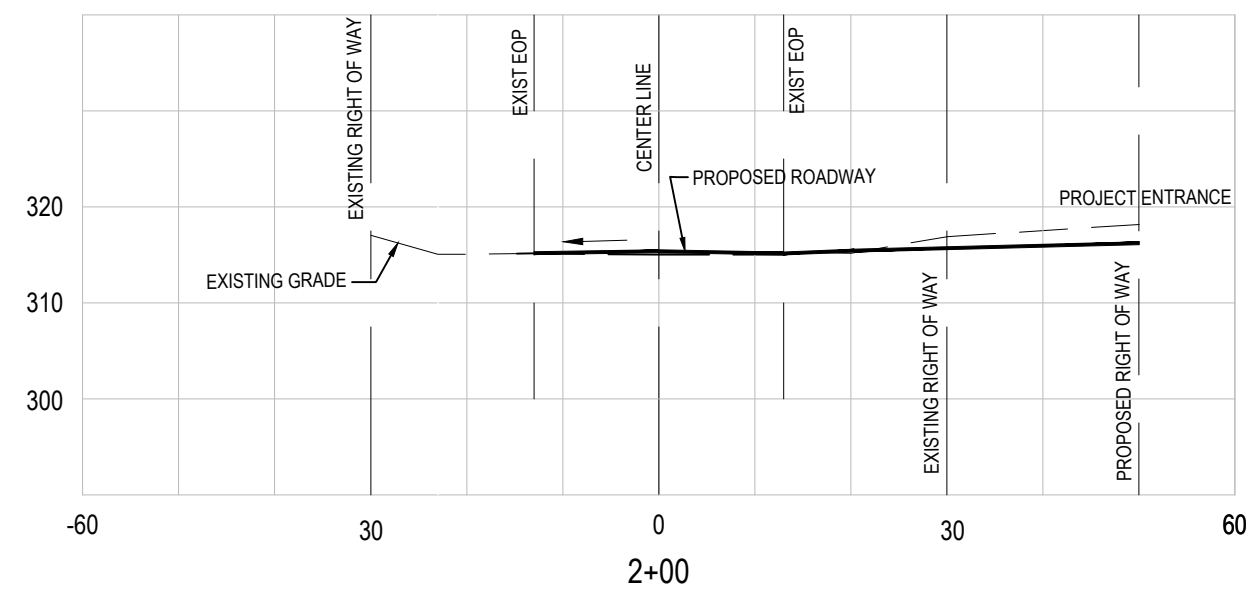
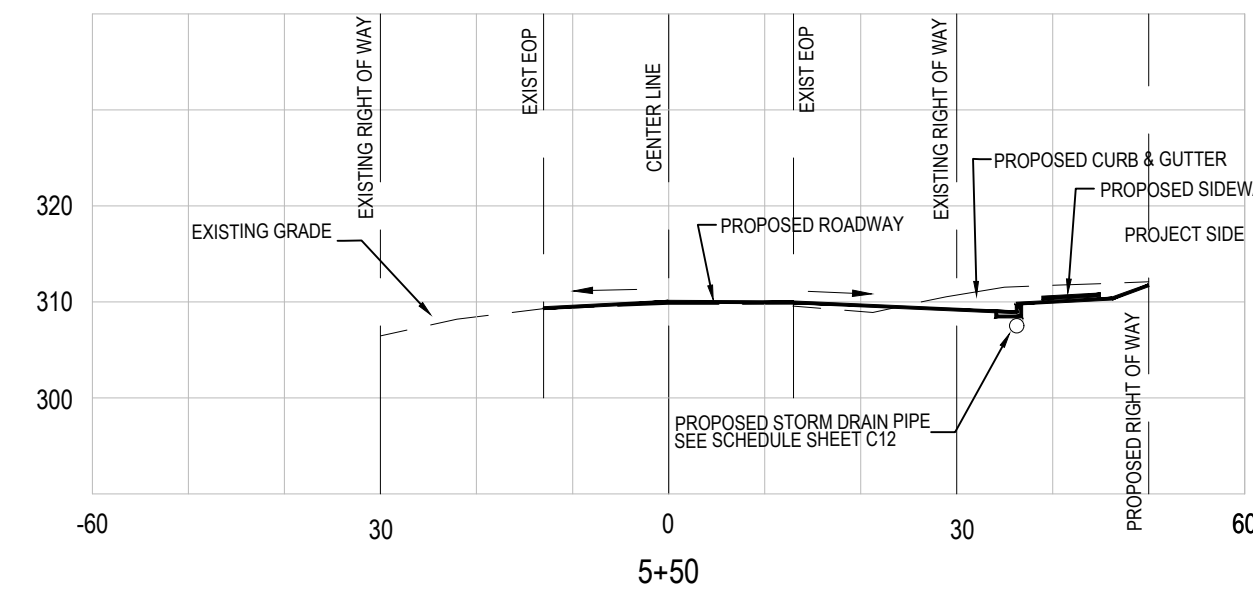
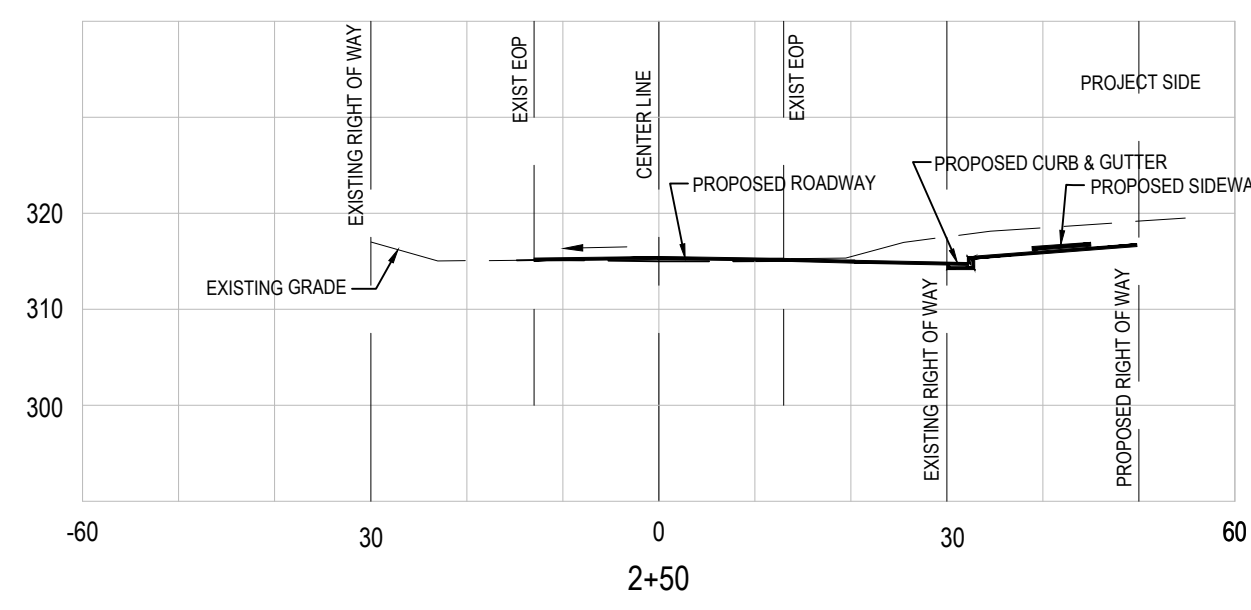
StorageMax (1098359)

901 Proctor Street
Zebulon, Wake County, North Carolina

Project No. 23001

Dwg No.

C12



NOTES
 1. SEE SHEET C11 AND C12 FOR STANDARD NCDOT NOTES.

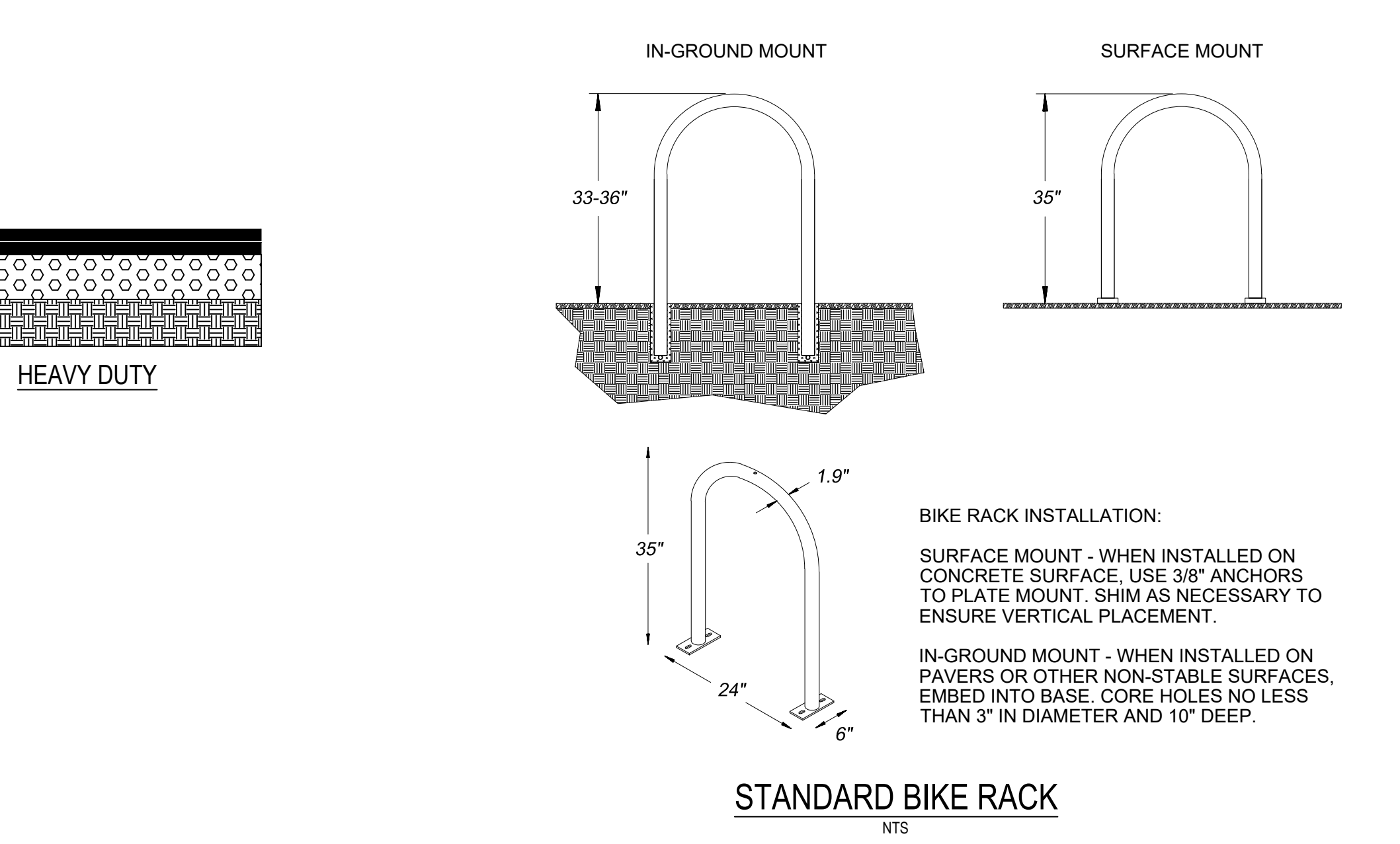
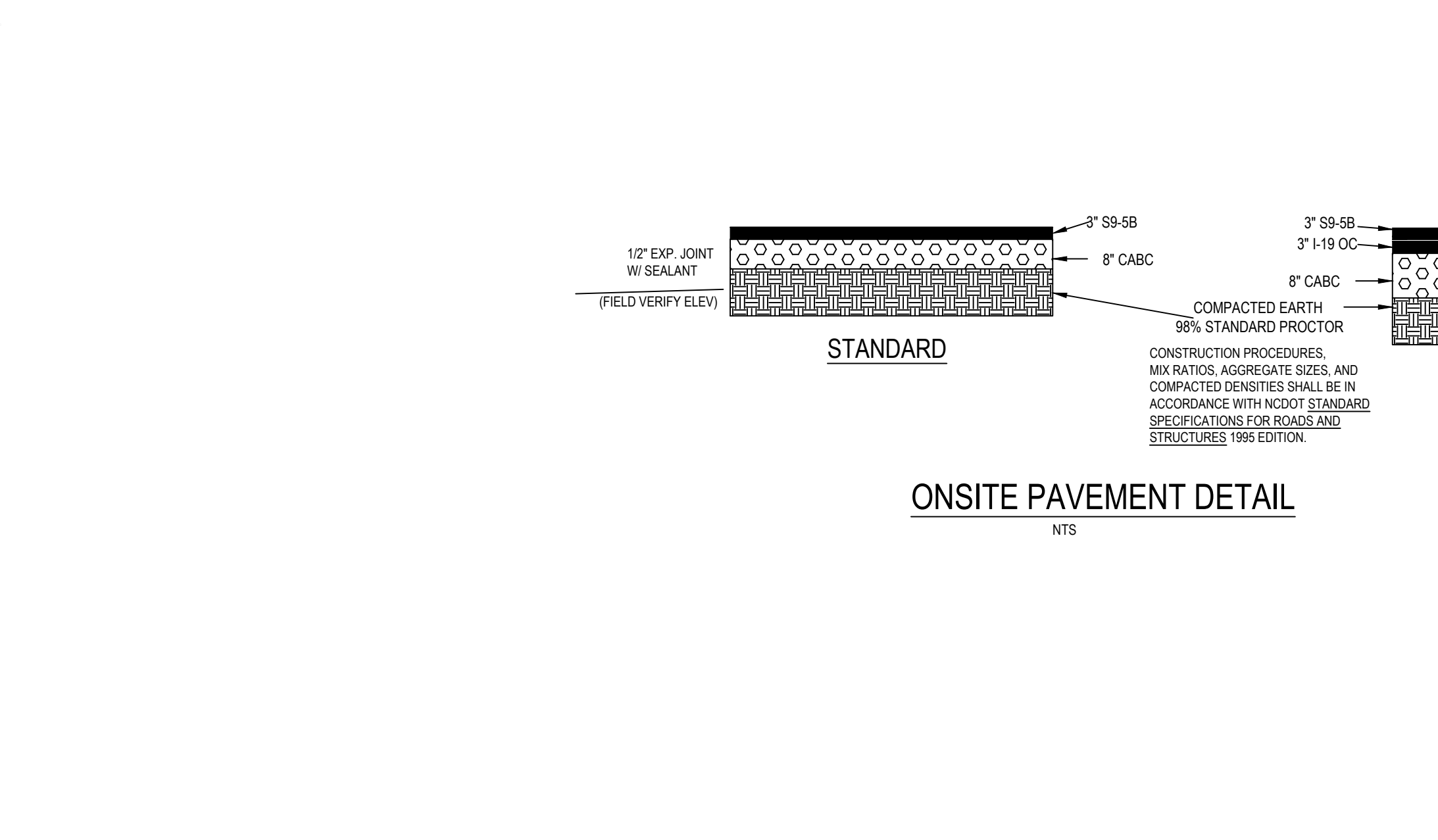
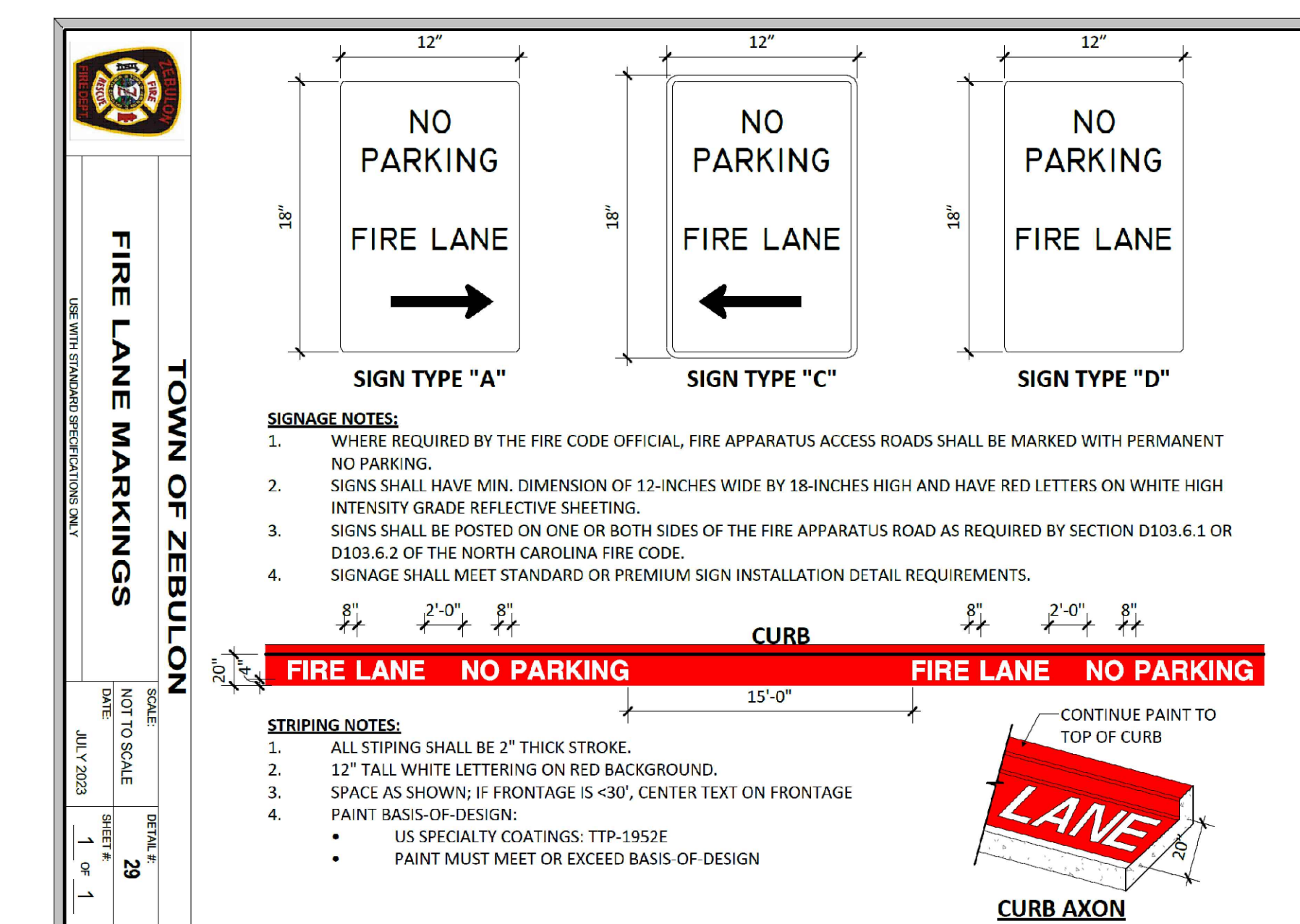
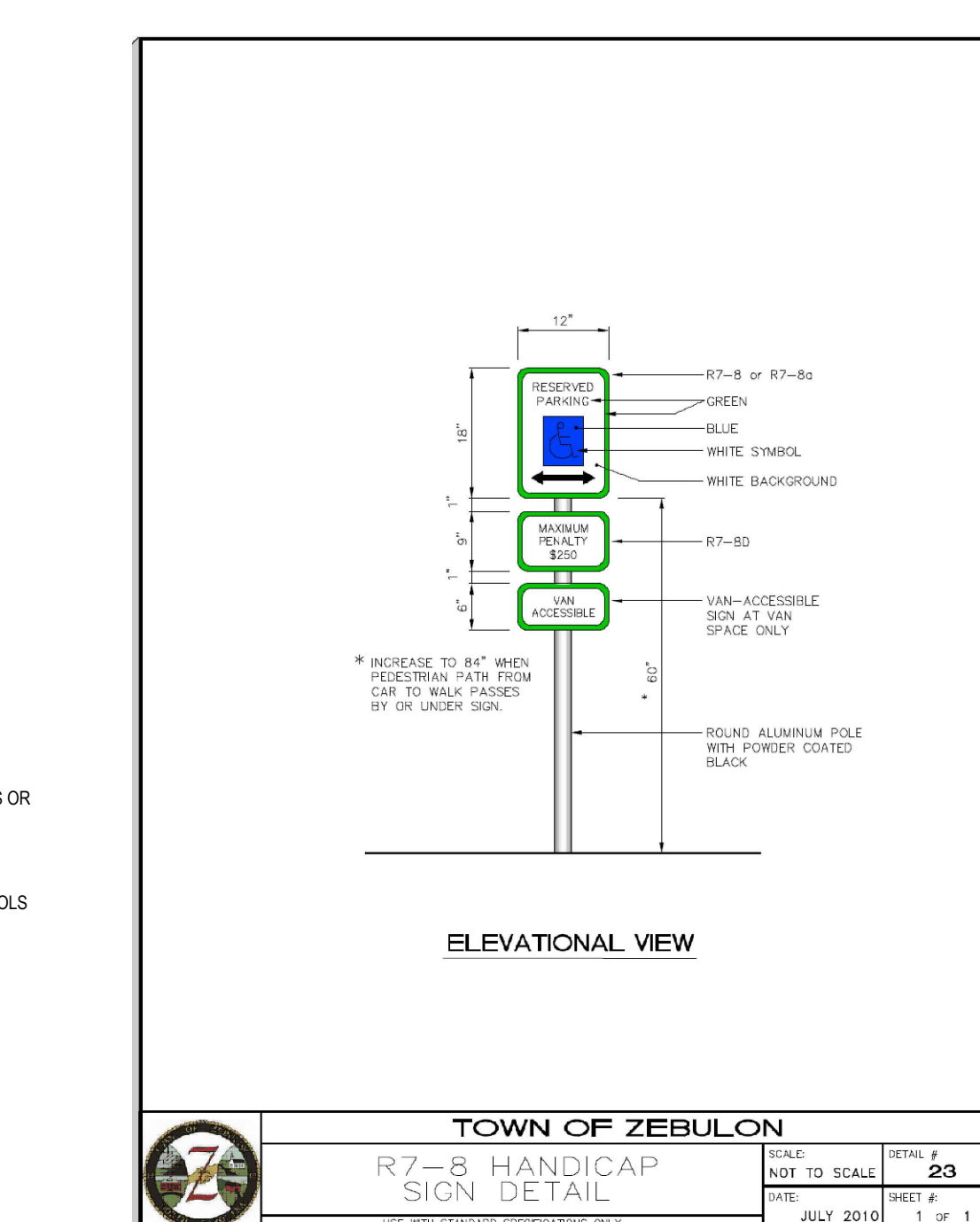
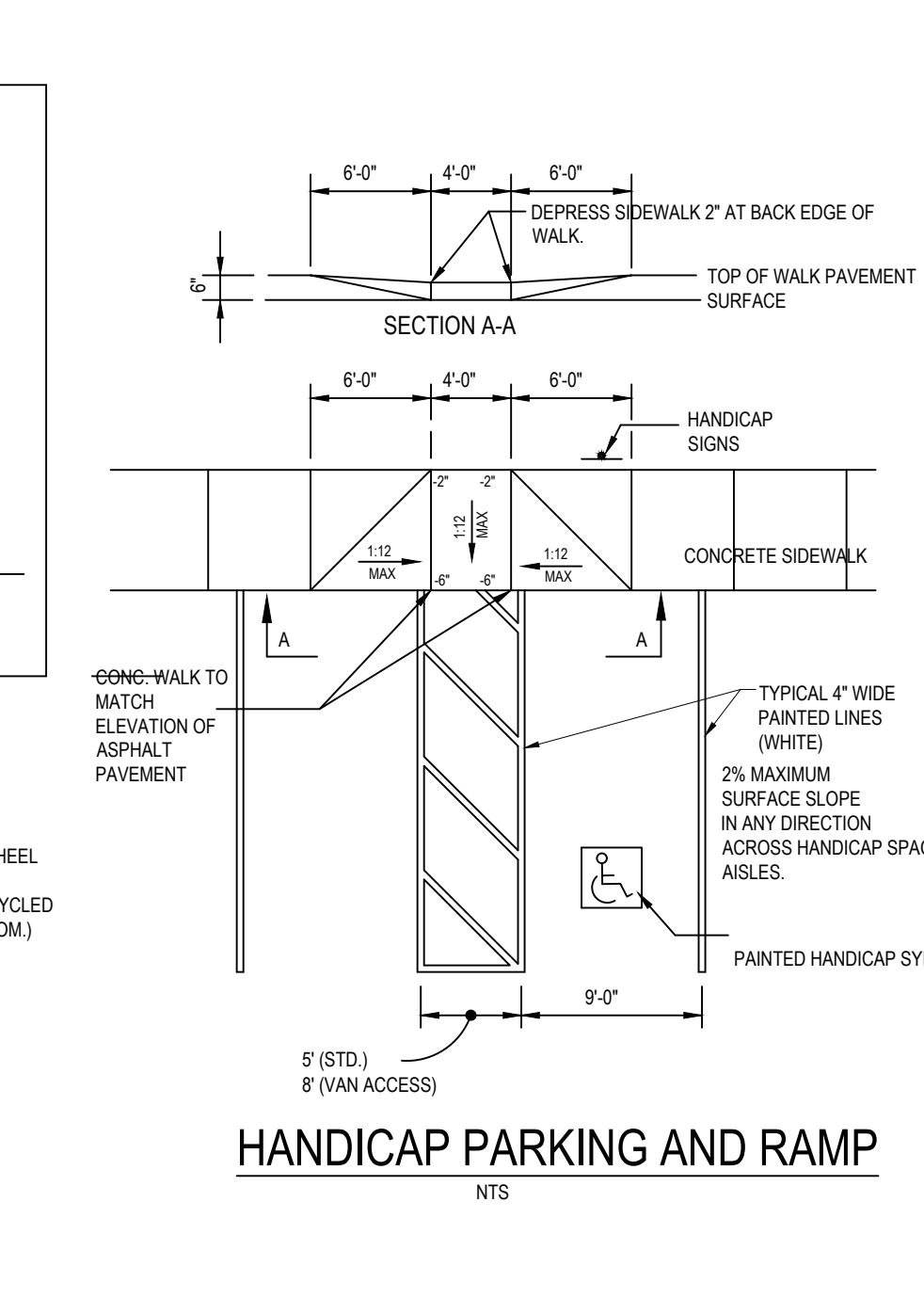
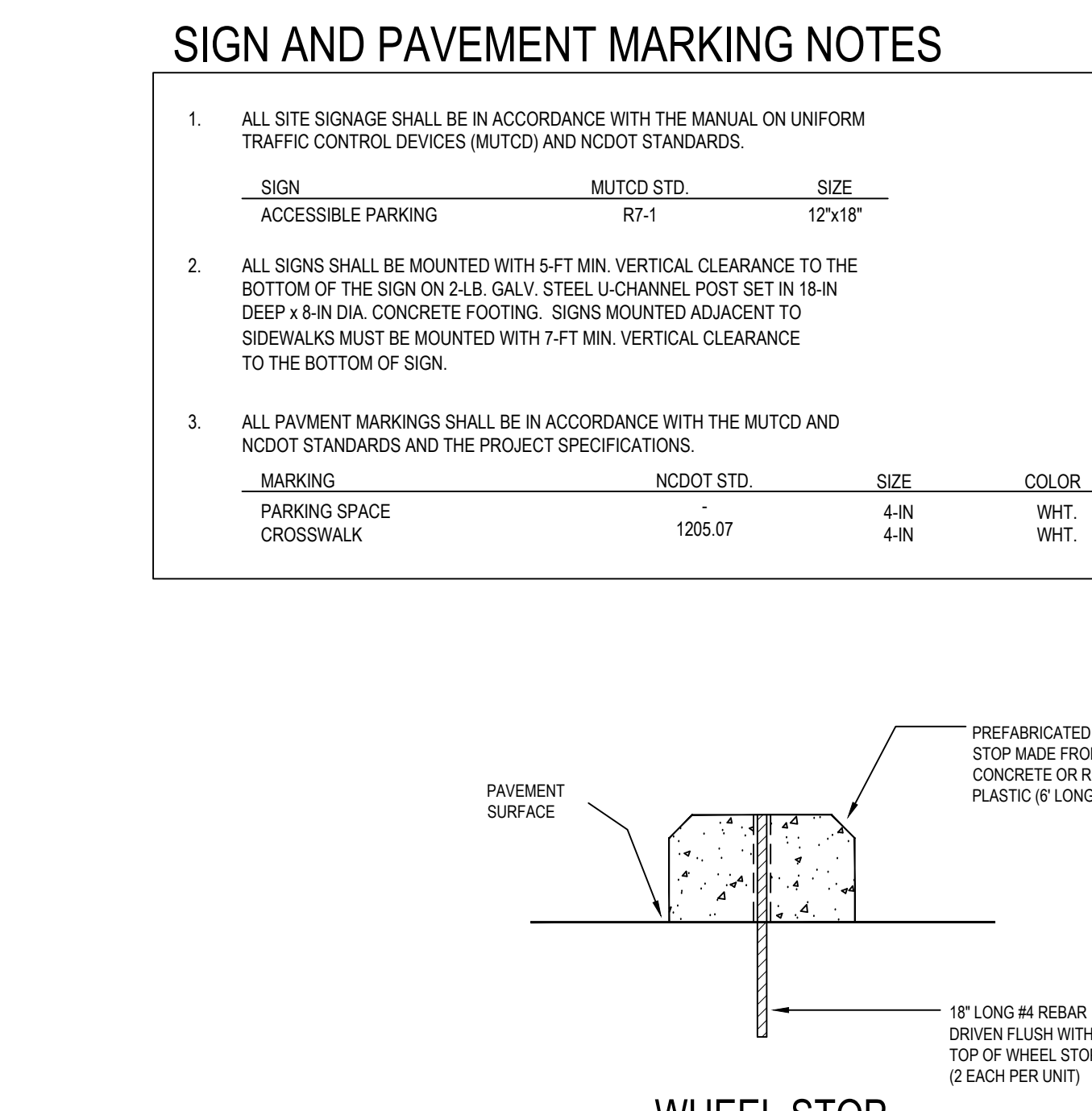
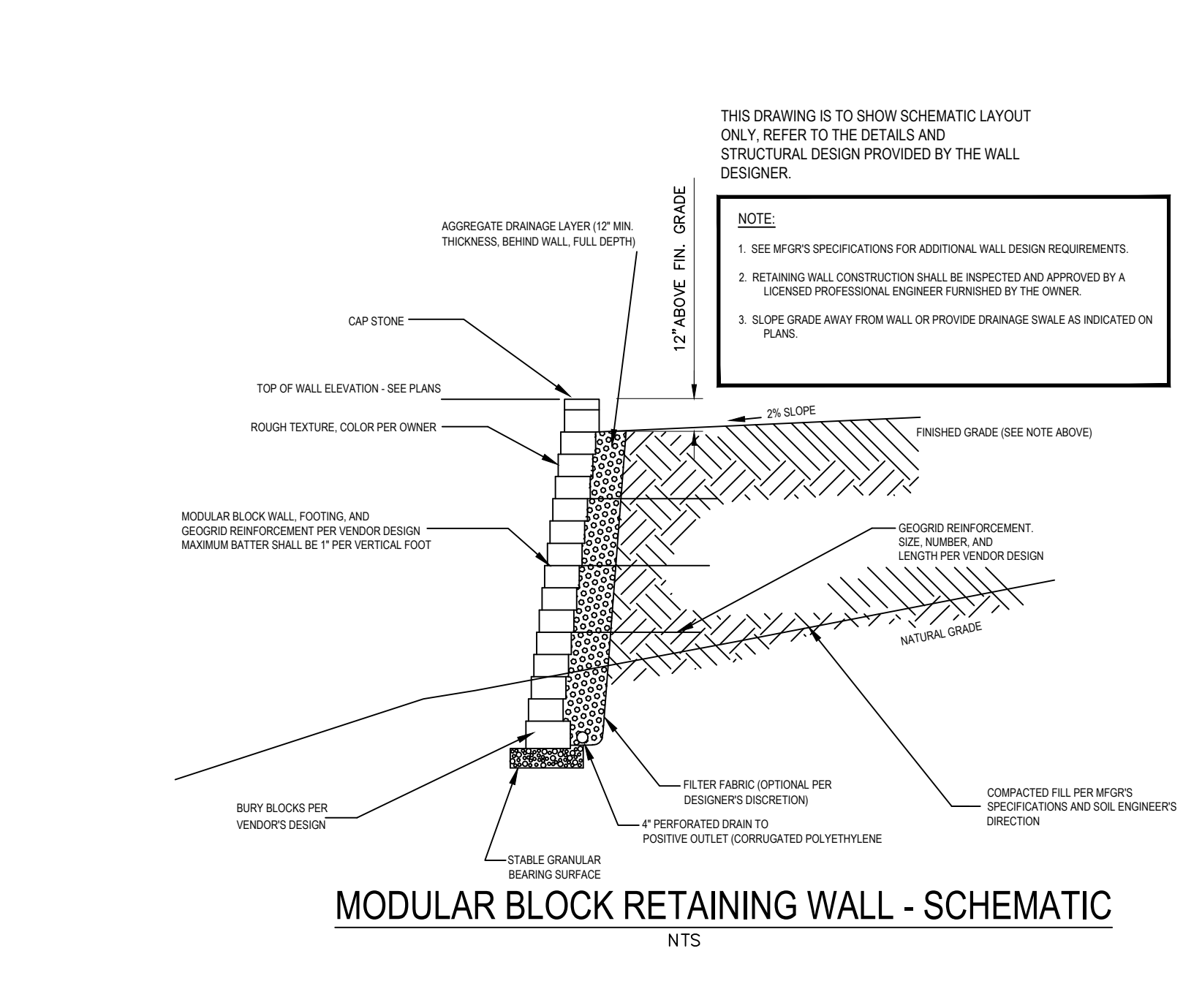
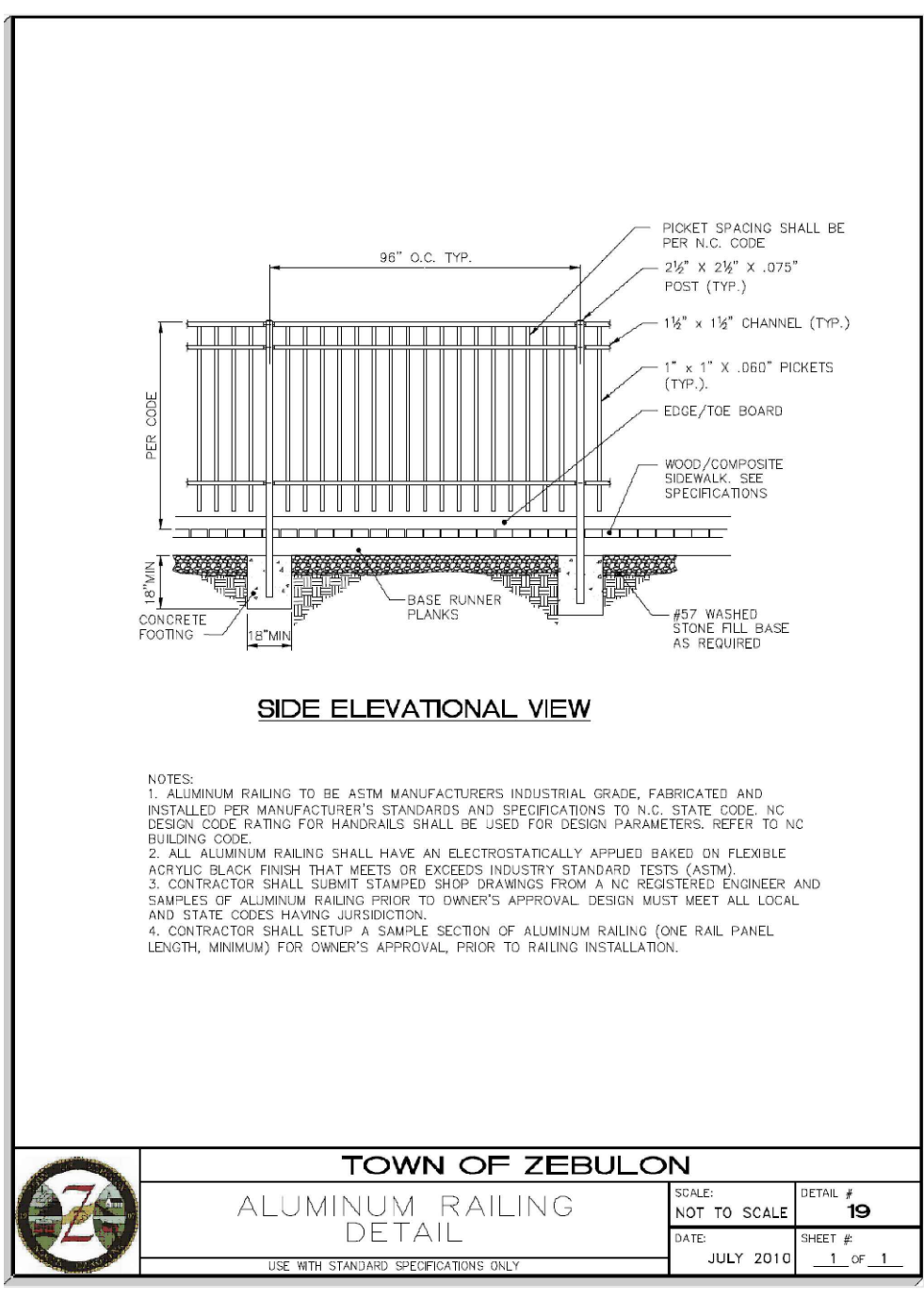
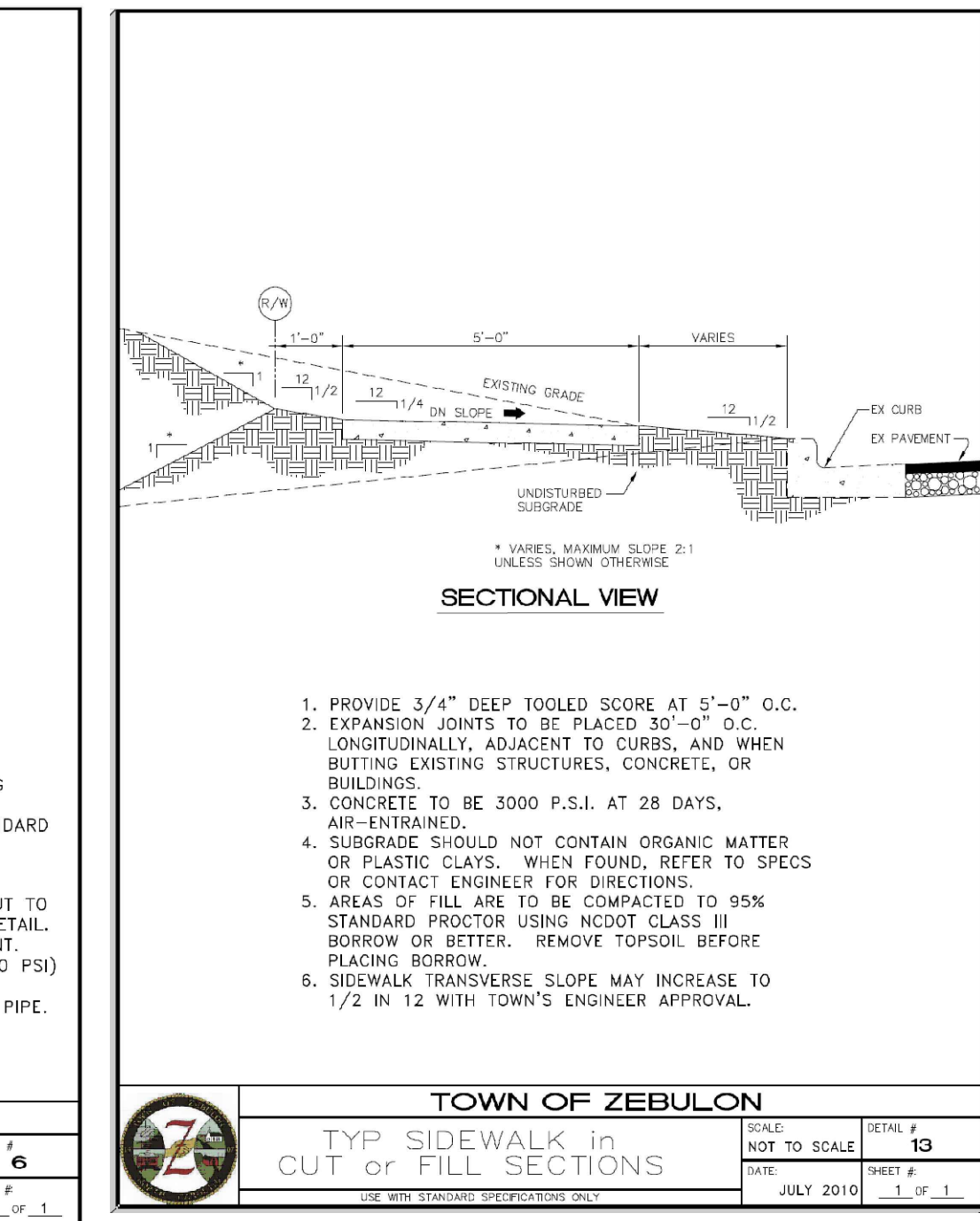
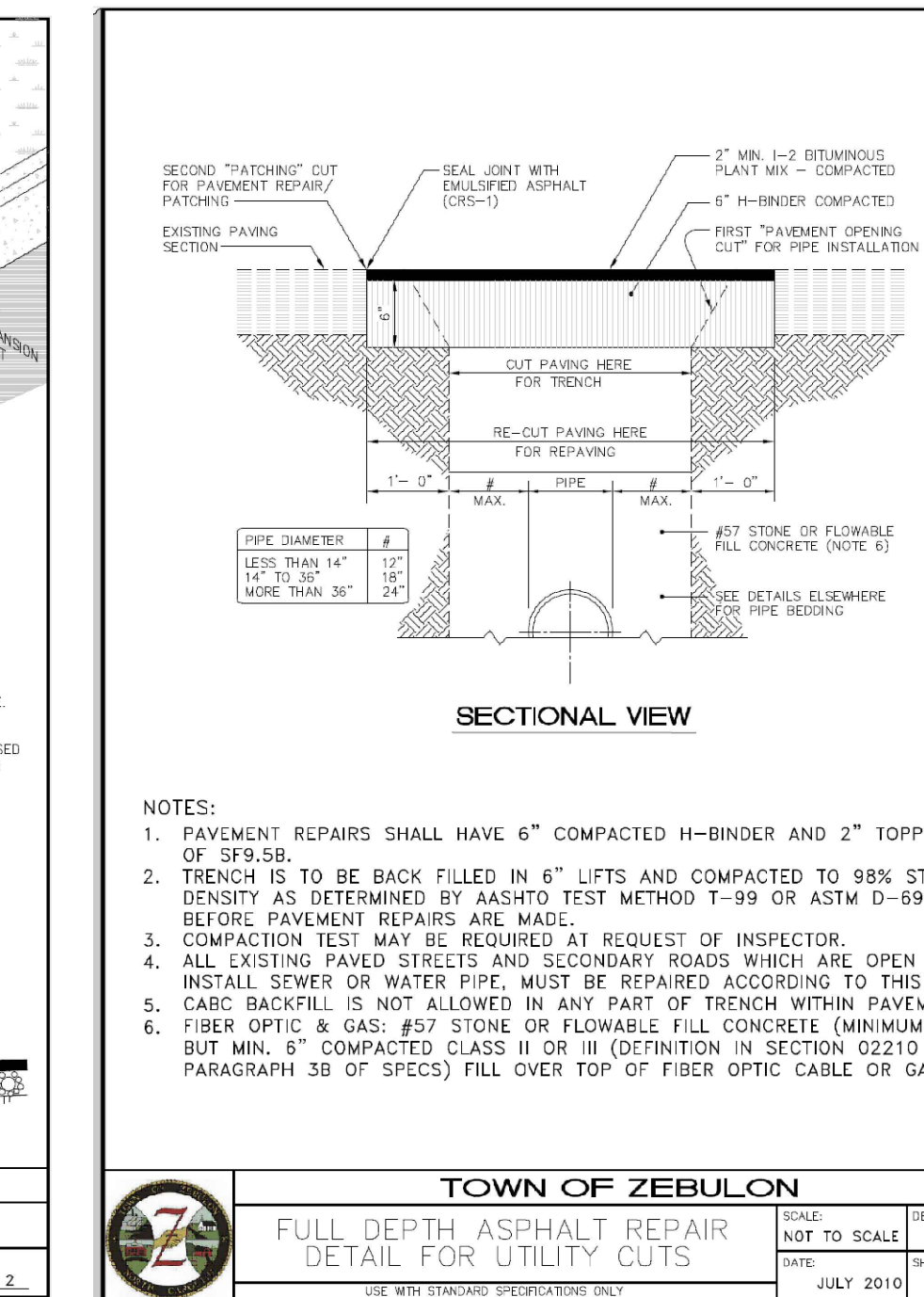
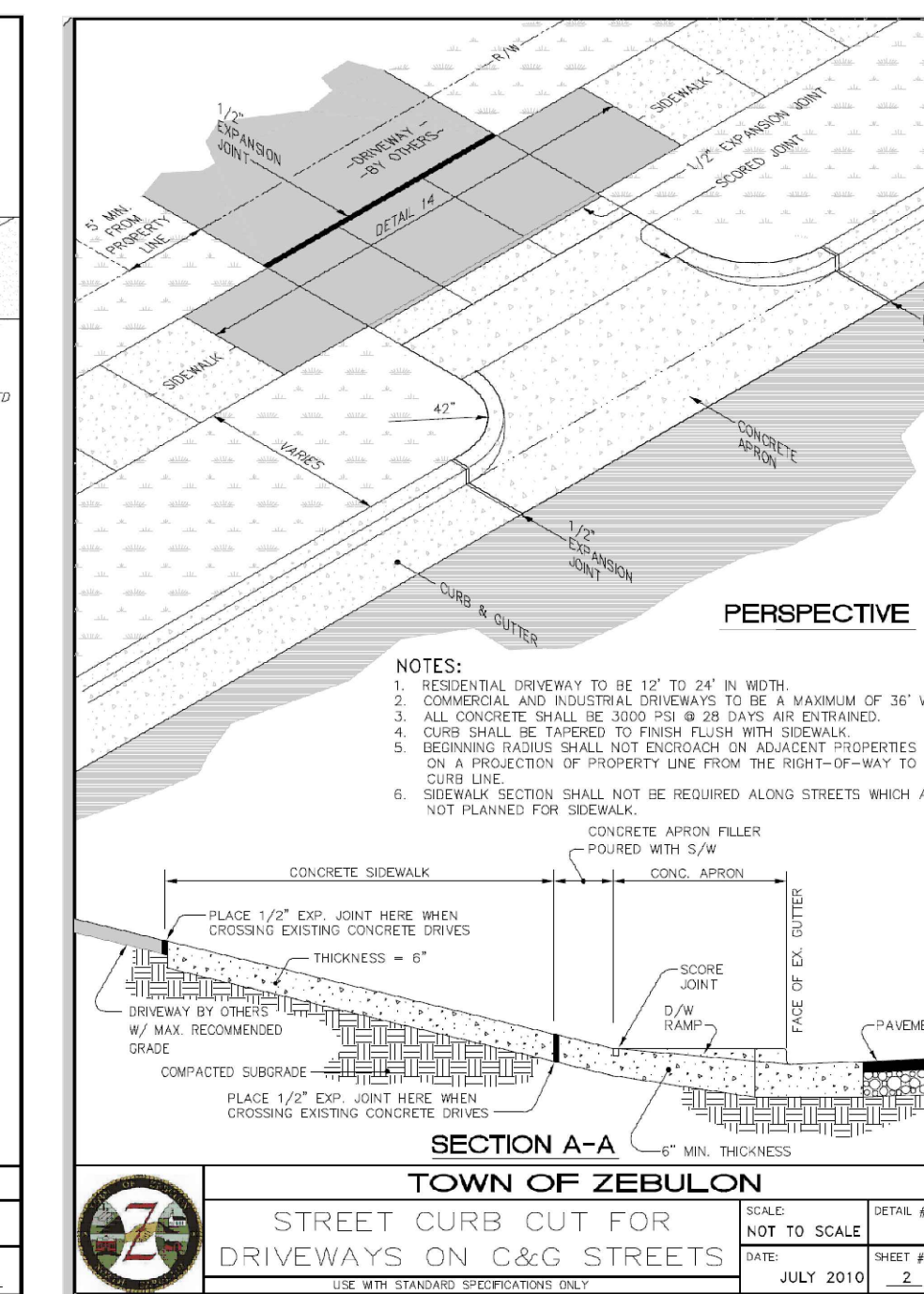
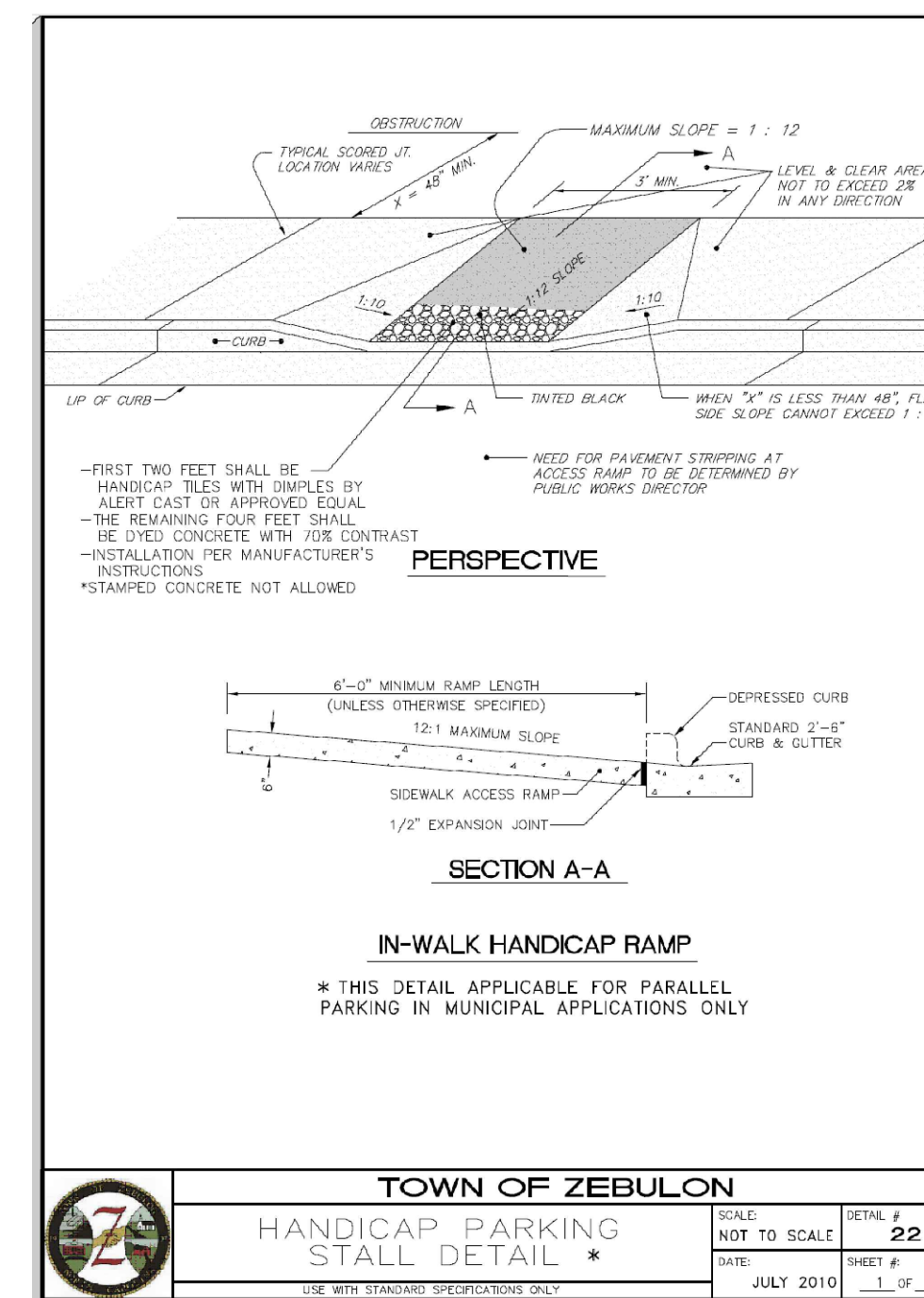
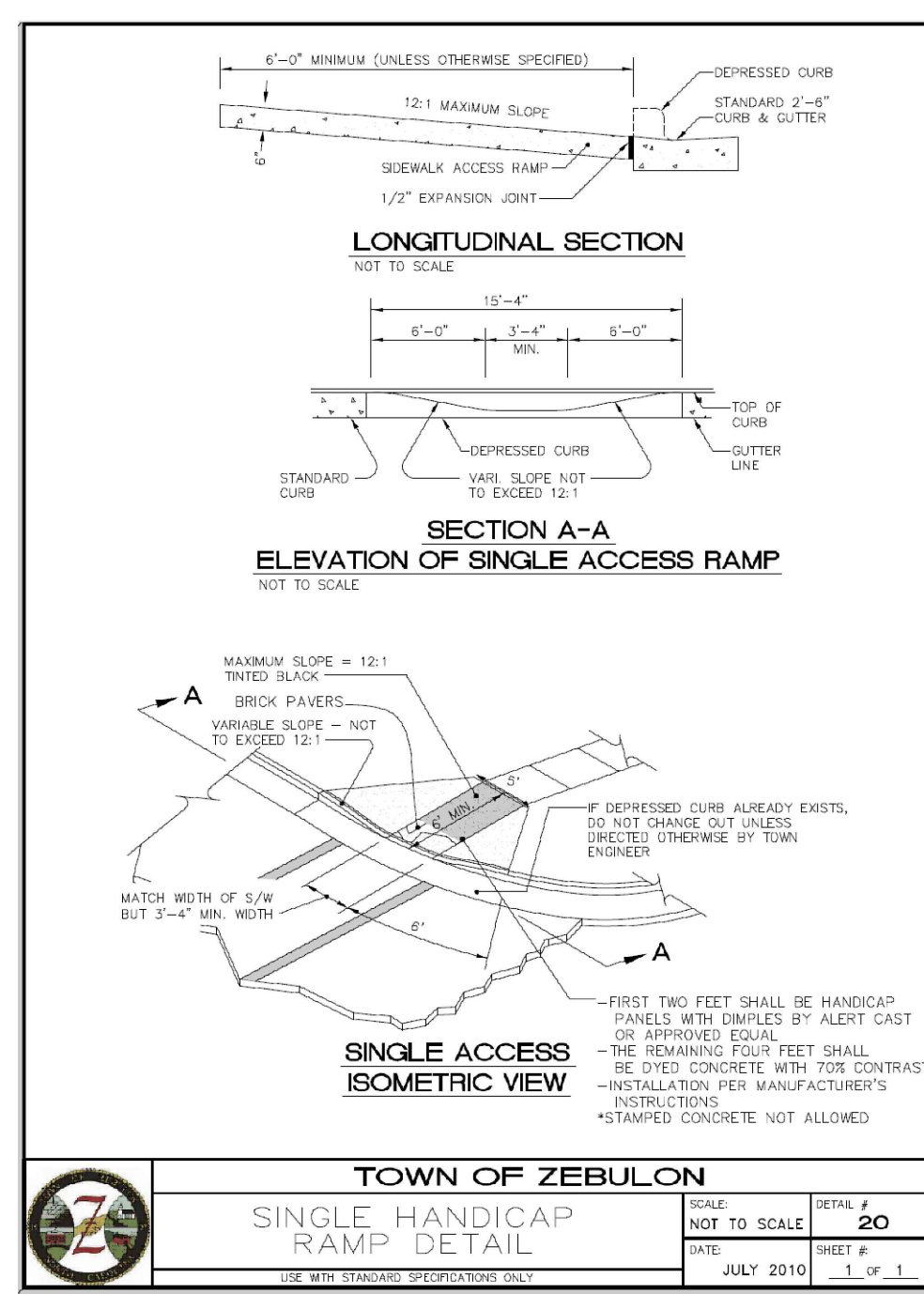
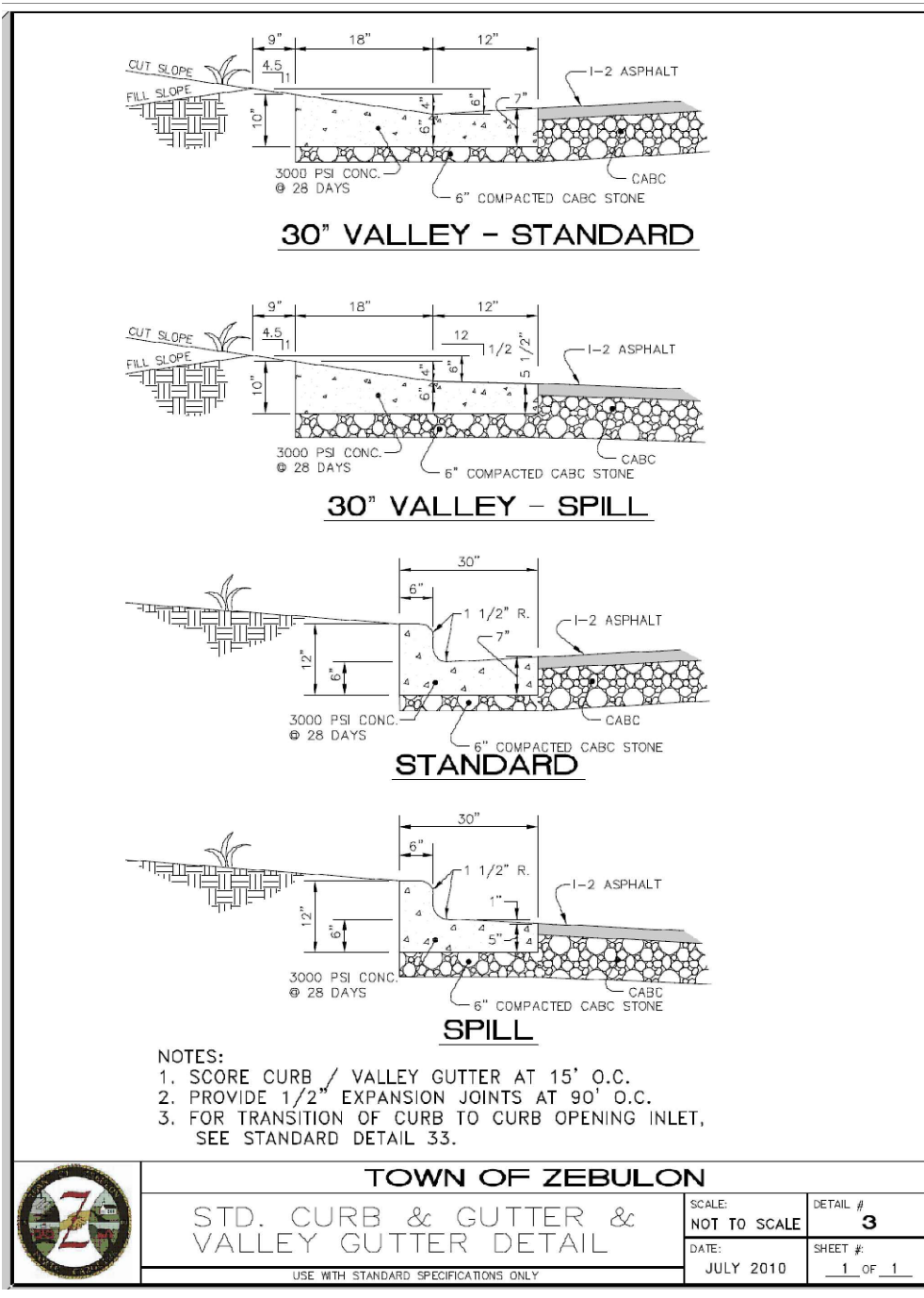
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 Wake Forest, North Carolina 27587
 (919) 210-3934 Firm License P-2538

NO	DATE	REVISION DESCRIPTION	BY
1	01-15-2024	Per Town Comment	
2		COMMENT	
3		COMMENT	
4		COMMENT	
5		COMMENT	
6		COMMENT	



Shepard School - Cross-Sections
StorageMax (1098359)
 901 Proctor Street
 Zebulon, Wake County, North Carolina

Project No. 23001
 Dwg. No. **C13**



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NO.	DATE	BY	REVISION/DESCRIPTION
1	01-05-2024	Per Town Comment	
2			
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9			

Standard Site Details
StorageMax (1098359)
 901 Proctor Street
 Zebulon, Wake County, North Carolina

Project No. 23001
 Dwg No. **D1**

END SECTION DIMENSIONS					
DIA.	A	B	C	D	E
15"	7"	2'-3 1/4"	3'-11 1/2"	6'-2 3/4"	2'-6"
18"	9"	2'-3"	3'-11 3/4"	6'-2 3/4"	3'-0"
24"	9"	3'-7"	3'-1"	6'-8"	3'-11 3/4"
30"	1'-0"	4'-6 1/2"	1'-10 1/2"	6'-5"	5'-0"
36"	1'-4"	5'-0"	3'-1 1/2"	8'-1 1/2"	5'-11"
42"	1'-10 1/4"	5'-1 3/8"	3'-1"	8'-2 3/8"	6'-5 1/4"

NOTES:
 1. DESIGN OF END-SECTION SHALL CONFORM TO STANDARD REINFORCED SECTIONAL CONCRETE CULVERT PIPE.
 2. ANY TWIN BARREL SYSTEM GREATER THAN 42" RCP REQUIRES A HEADWALL.
 3. ANY SYSTEM OF MORE THAN 2 PIPES REQUIRES A HEADWALL.
 4. SEE NCDOT "ROADWAY STANDARD DRAWINGS" FOR HEADWALL CONSTRUCTION DETAILS.

TOWN OF ZEBULON
 STD. FLARED END SECTIONS DESIGN AID DETAIL
 SCALE: NOT TO SCALE
 DATE: JULY 2010
 SHEET # 1 OF 1
 DETAIL # 35

TOWN OF ZEBULON
 2x3 DROP INLET
 SCALE: NOT TO SCALE
 DATE: JULY 2010
 SHEET # 1 OF 1
 DETAIL # 34

U.S. FOUNDRY 5181 CURB & GUTTER INLET FRAME (SHOWN WITH 6420 GRATE)
 HEAVY DUTY FRAME, COVER & HOOD
 FRAME, COVER & HOOD WEIGHT = 550 LBS.
 WEIGHT MAY NOT DEVIATE BY MORE THAN -5.0%.

TOWN OF ZEBULON
 STD. C&G INLET W/HOOD DETAIL
 SCALE: NOT TO SCALE
 DATE: JULY 2010
 SHEET # 2 OF 4
 DETAIL # 33

TOWN OF ZEBULON
 STD. C&G INLET W/HOOD DETAIL
 SCALE: NOT TO SCALE
 DATE: JULY 2010
 SHEET # 1 OF 4
 DETAIL # 33

PIPE D _i	MAX. B _d	MAX. BURY H CLASS III (0.01 CRACK)	MAX. BURY H CLASS IV (0.01 CRACK)
15"	4"	9.5'	14.5'
18"	4"	9.5'	13.0'
24"	4"	12.0'	23.5'
30"	5.5"	10.0'	17.0'
36"	6"	10.5'	18.0'
42"	6.5"	13.0'	19.0'
48"	7"	13.5'	22.0'
54"	8"	13.0'	18.5'
60"	9"	11.0'	18.0'
72"	10"	13.0'	19.0'

TOWN OF ZEBULON
 STD. TRENCH INSTALLATION FOR CONCRETE PIPE (FOR CONTRACTOR'S USE)
 SCALE: NOT TO SCALE
 DATE: JULY 2010
 SHEET # 1 OF 5
 DETAIL # 36

TOWN OF ZEBULON
 STD. M.H. J.B. VARIABLE LENGTH
 SCALE: NOT TO SCALE
 DATE: JULY 2010
 SHEET # 1 OF 3
 DETAIL # 37

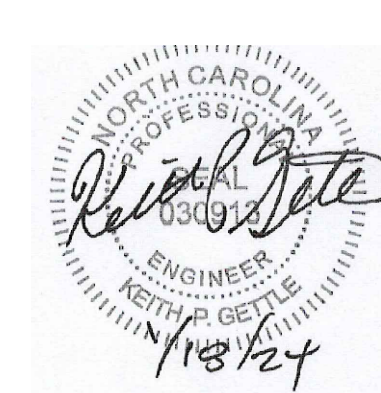
RISE	PART NO.	F
1 1/2"	V-1984-05	3 1/4"
1 1/2"	V-1984-10	3 3/4"
1 1/2"	V-1984-15	4 1/4"
2"	V-1984-20	4 3/4"
2 1/2"	V-1984-25	5 1/4"
3"	V-1984-30	5 3/4"
3 1/2"	V-1984-35	6 1/4"
4"	V-1984-40	6 3/4"

TOWN OF ZEBULON
 STANDARD MANHOLE COVER & RING ADJUSTABLE - EAST JORDAN IRON WORKS V-1984
 SCALE: NOT TO SCALE
 DATE: JULY 2010
 SHEET # 2 OF 3
 DETAIL # 37

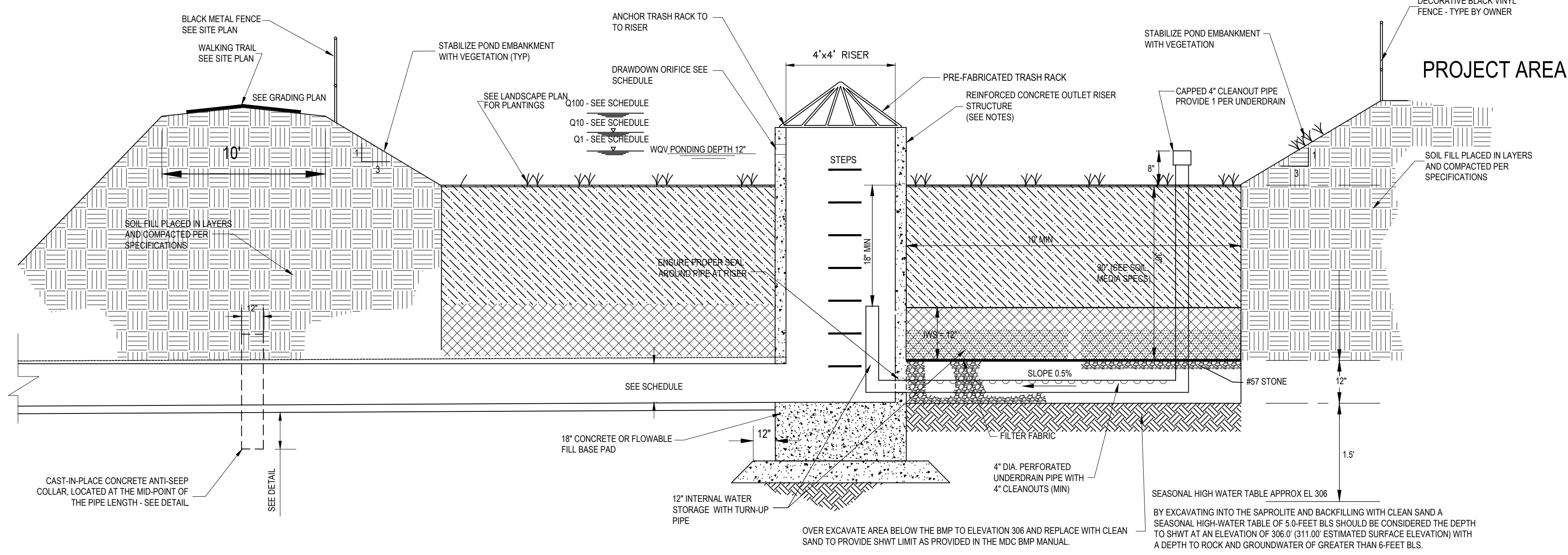
TOWN OF ZEBULON
 STANDARD MANHOLE RING US FOUNDRY 700 KL
 SCALE: NOT TO SCALE
 DATE: JULY 2010
 SHEET # 3 OF 3
 DETAIL # 37

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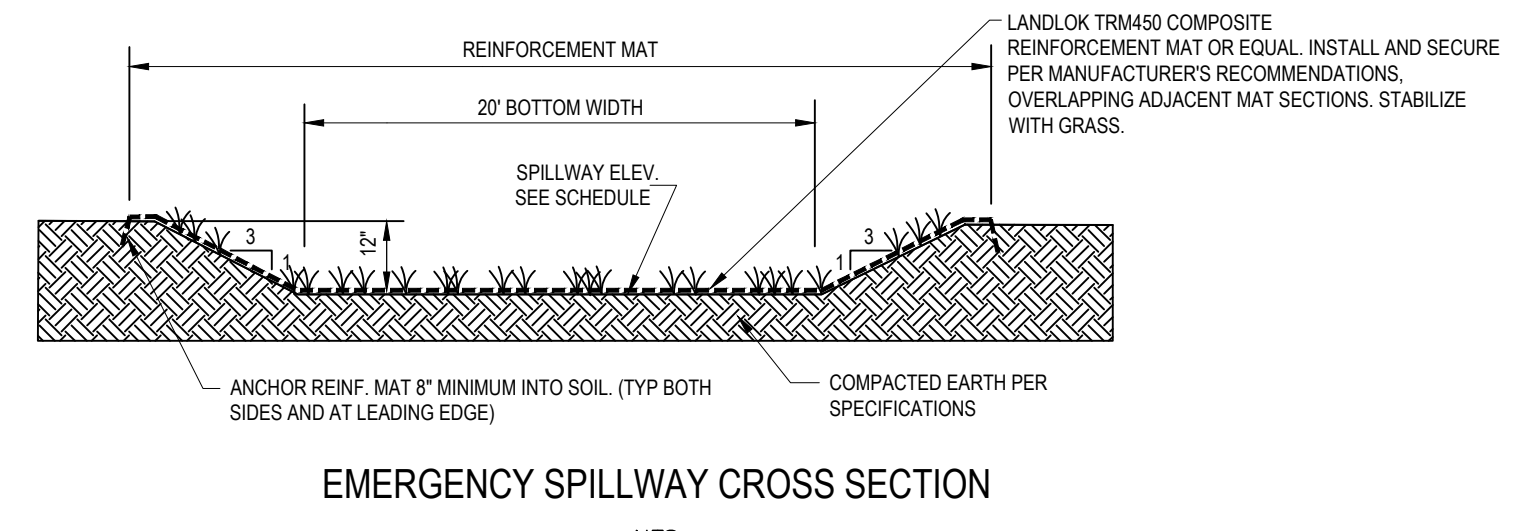
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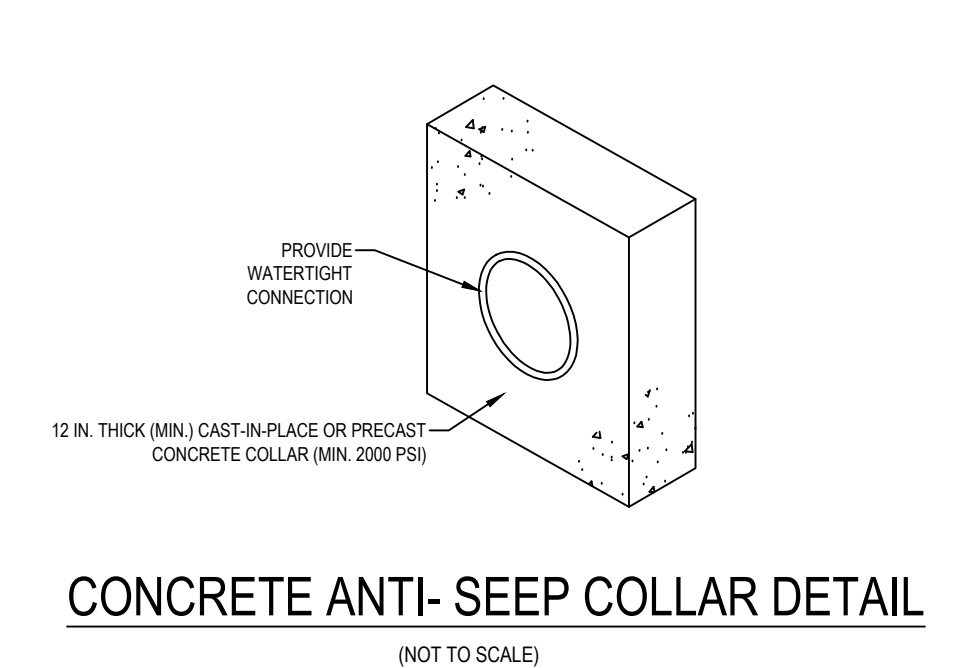
Stormwater Details
 StorageMax (1098359)
 901 Proctor Street
 Zebulon, Wake County, North Carolina



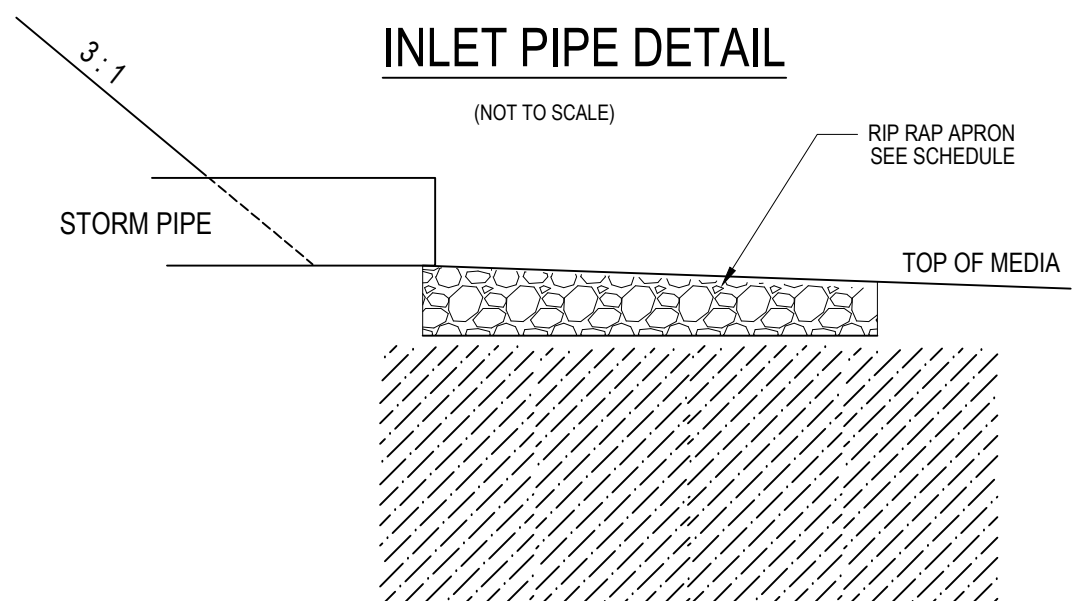
BIORETENTION SECTION



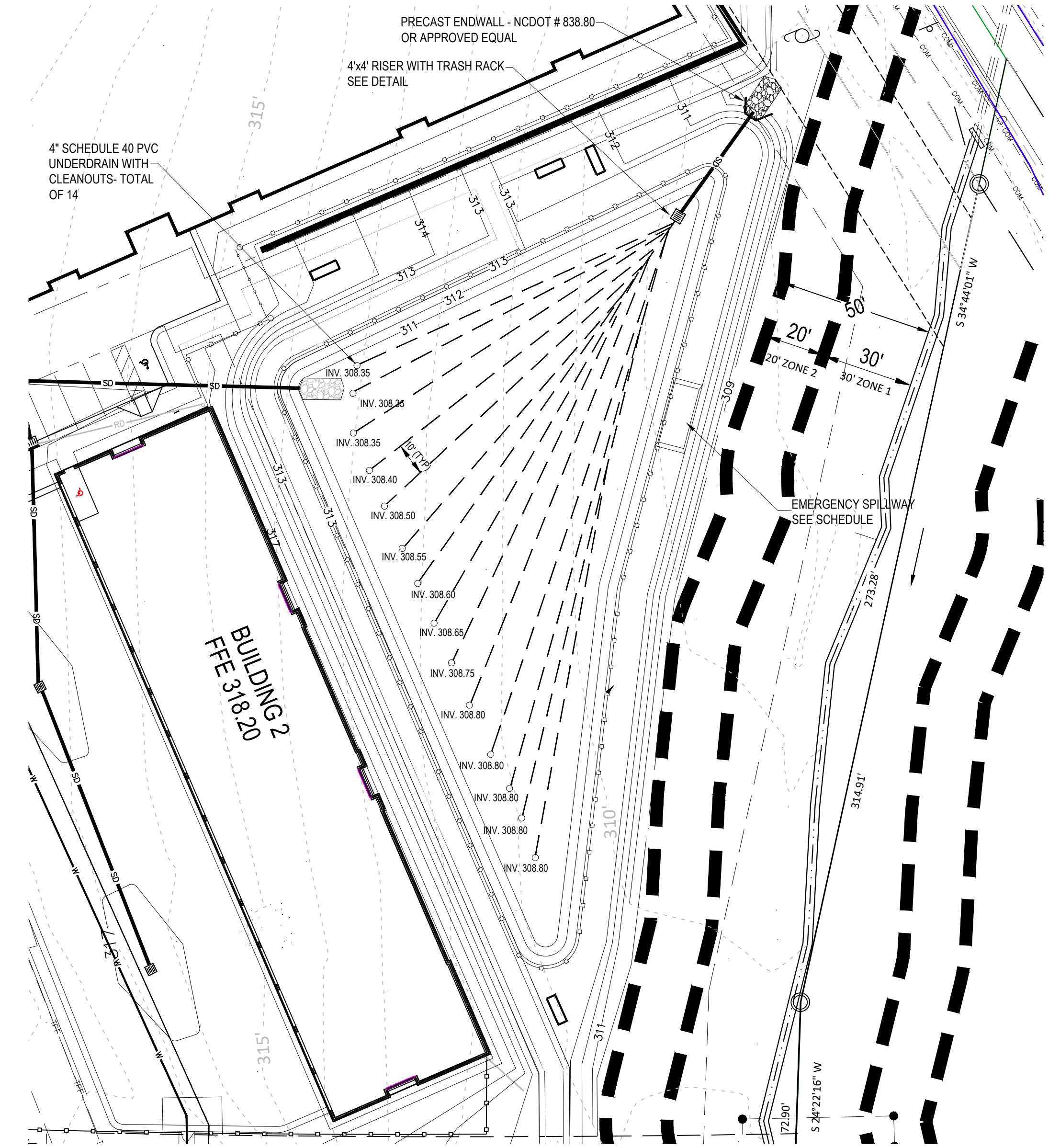
EMERGENCY SPILLWAY CROSS SECTION



CONCRETE ANTI-SEEP COLLAR DETAIL



INLET PIPE DETAIL



PLAN VIEW BIORETENTION DEVICE

BIORETENTION FACILITY OPERATION AND MAINTENANCE:

* WATERING: WATERING SHOULD NOT BE REQUIRED AFTER GRASS / LANDSCAPING IS ESTABLISHED. HOWEVER, WATERING MAY BE REQUIRED DURING PROLONGED DRY PERIODS.

* EROSION CONTROL: INSPECT FLOW ENTRANCES, PONDING AREA, AND SURFACE OVERFLOW AREAS PERIODICALLY. REPLACE MATERIAL WHERE EROSION HAS OCCURRED. IF SEDIMENT IS DEPOSITED, DETERMINE THE SOURCE, REMOVE EXCESS DEPOSITS, AND CORRECT THE PROBLEM.

* VEGETATION: ROUTINE MAINTENANCE WILL BE NECESSARY TO ENSURE THAT THE VEGETATION IS HEALTHY AND TO REMOVE ANY WEEDS.

* NUTRIENTS AND PESTICIDES: NUTRIENTS AND PESTICIDES SHOULD NOT BE REQUIRED. IF NECESSARY, USE SPARINGLY.

* SOIL MEDIA: THE SOIL MEDIA SHOULD NOT NEED REPLACING. IF PROBLEMS OCCUR IN THE SOIL MEDIA, CONSULT A SOIL SPECIALIST.

BIORETENTION FACILITY NOTES:

* A 3-FOOT DEEP, HOMOGENOUS SOIL MIXTURE OF 85 TO 88 PERCENT CONSTRUCTION SAND, 8 TO 12 PERCENT FINES (SILT AND CLAY), AND 3 TO 5 PERCENT ORGANIC MATTER SHALL BE USED. SOIL MEDIA SHOULD BE SENT TO THE NCDA LABS TO BE ANALYZED. P-INDEX FOR THESE SOIL MEDIA SHOULD RANGE BETWEEN 10 AND 30. THE INFILTRATION RATE OF THE SOIL SHALL BE BETWEEN 3.85 AND 6 IN/HR. SOIL CHARACTERISTICS SHALL BE VERIFIED BY A GEOTECHNICAL ENGINEER.

* THE BIORETENTION FACILITY SHALL BE PLANTED AS SHOWN ON THE LANDSCAPE PLAN.

* ALL CONSTRUCTION, MONITORING, AND MAINTENANCE GUIDELINES IN THE NCDWQ STORM WATER BMP MANUAL SHALL BE FOLLOWED.

BIORETENTION GENERAL NOTES:

OUTLET STRUCTURE AND PIPING

- THE RISER STRUCTURE SHALL CONSIST OF PRECAST CONCRETE BASE AND RISER SECTIONS OF THE TYPE AND DIMENSIONS SHOWN. SQUARE OR RECTANGULAR SECTIONS SHALL BE SOLID-WALL CATCH BASIN TYPE STRUCTURES, AND APPROVED FOR USE BY NCDOT. ALL RISER JOINTS SHALL BE SEALED WATERTIGHT USING FLEXIBLE BUTYL RUBBER JOINT MATERIAL, RUBBER GASKETS, OR OTHER SUITABLE MATERIAL. ALL PIPE CONNECTIONS TO THE RISER SHALL BE MADE WITH A WATER TIGHT FLEXIBLE CONNECTOR BOOT PER ASTM C923.

CONCRETE

- CONCRETE WORK SHALL CONFORM TO PROJECT CONCRETE SPECIFICATIONS.

FLOWABLE FILL

- FLOWABLE FILL SHALL CONSIST OF A MIXTURE OF PORTLAND CEMENT, AGGREGATE NOT GREATER THAN 3/8 INCH DIAMETER, WATER, AND OTHER APPROVED COMPONENTS, WITH A MINIMUM PH OF 4.0, AND A 28-DAY COMPRESSIVE STRENGTH OF AT LEAST 150 PSI. THE MIXTURE SHALL BE SUFFICIENTLY FLOWABLE TO BE SELF-LEVELING, FILLING ALL VOIDS UNDER THE PIPE AND PIPE HAUNCHES WITHOUT REQUIRING VIBRATION.

FINAL SURFACE STABILIZATION

- STABILIZE ALL SURFACES OF THE EMBANKMENT, SPILLWAY, SLOPES, SPOIL AND BORROW AREAS THAT ARE NOT COVERED BY OTHER SPECIFIED MATERIALS WITH GRASS IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

BIORETENTION NOTES (CONT):

- ALL DRAINAGE AREAS TO A BIORETENTION FACILITY ARE TO BE STABILIZED PRIOR TO INSTALLATION OF AMENDED SOILS, MULCH OR PLANTINGS.

BIORETENTION PLANTING SOIL MEDIA SPECIFICATIONS:

- THE PLANTING SOIL SHALL BE A UNIFORM MIX, FREE OF STONES, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN ONE-HALF INCH IN DIAMETER. NO OTHER MATERIALS OR SUBSTANCES SHALL BE MIXED OR DUMPED WITHIN THE BIORETENTION AREA THAT MAY BE HARMFUL TO PLANT GROWTH, OR PROVE A HINDERANCE TO THE PLANTING OR MAINTENANCE OPERATIONS. THE PLANTING SOIL SHALL BE FREE OF BERMUDA GRASS, JOHNSON GRASS, QUACK GRASS, MUGWORT, NUTSEDGE, POISON IVY, CANADA THISTLE, OR OTHER NOXIOUS WEEDS.

- PLANTING MIX FOR BIORETENTION CELL - UNIFORM SOIL MIXTURE FREE OF STUMPS, STONES, OR LARGE ROOTS, CONTAINING THE FOLLOWING TYPES AND RATIOS (BY WEIGHT) OF COMPONENTS:
85-88% SAND (ASTM C-33)
8%-10% FINE SOIL MATERIAL (INCLUDES BOTH SILT OR CLAY)
3%-5% ORGANICS / PINE BARK MULCH

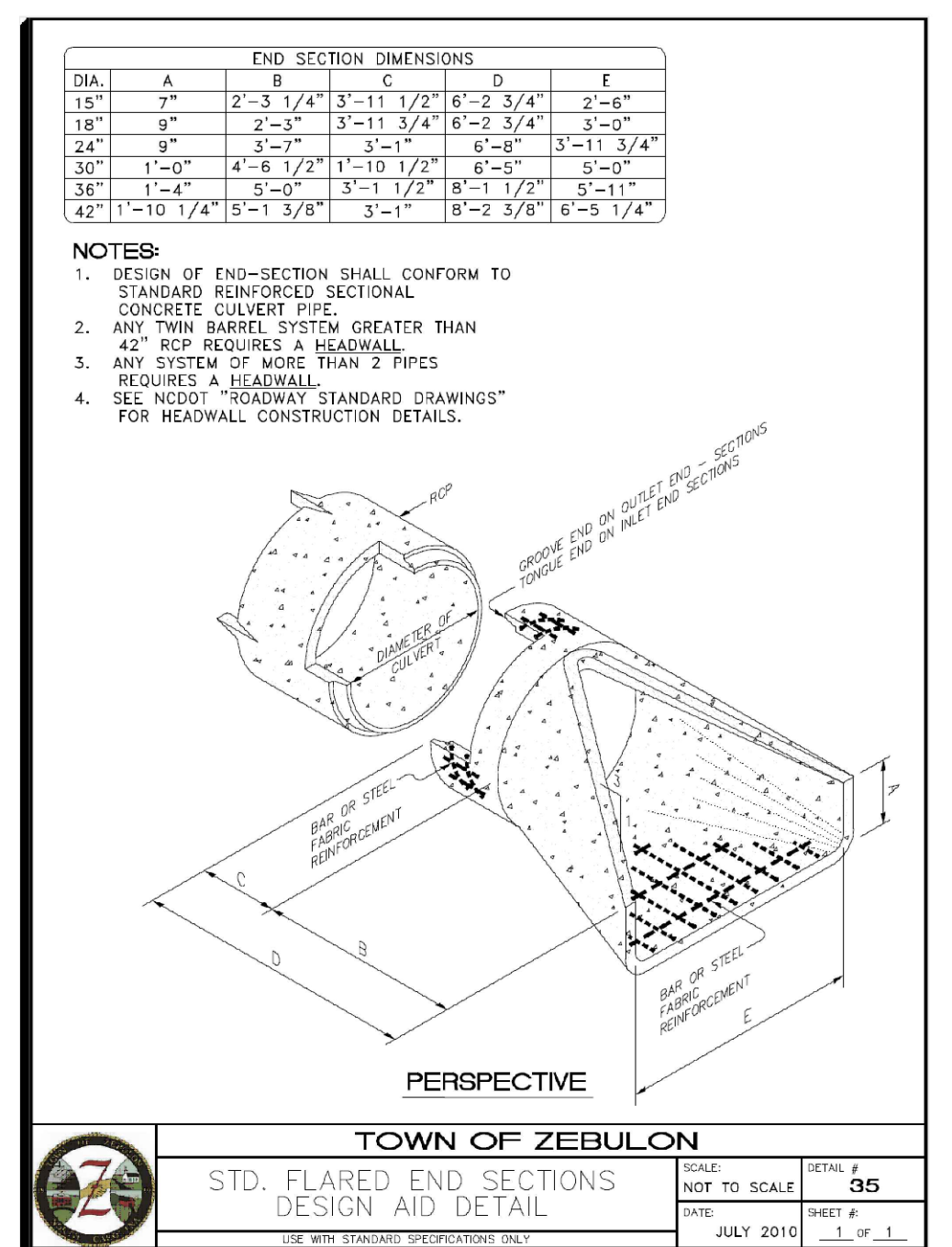
- SOIL SHALL HAVE A HYDRAULIC CONDUCTIVITY OF BETWEEN 1 IN/HR AND 6 IN/HR, WITH A 2 IN/HR RATE BEING OPTIMAL. PHOSPHOROUS INDEX SHALL BE BETWEEN 10 AND 30

- GRADING - CLEARING, STRIPPING, EXCAVATION, FILLING, TRENCHING, BACKFILLING, COMPACTION AND FINE-GRADING WORK SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF PROJECT SPECIFICATIONS.

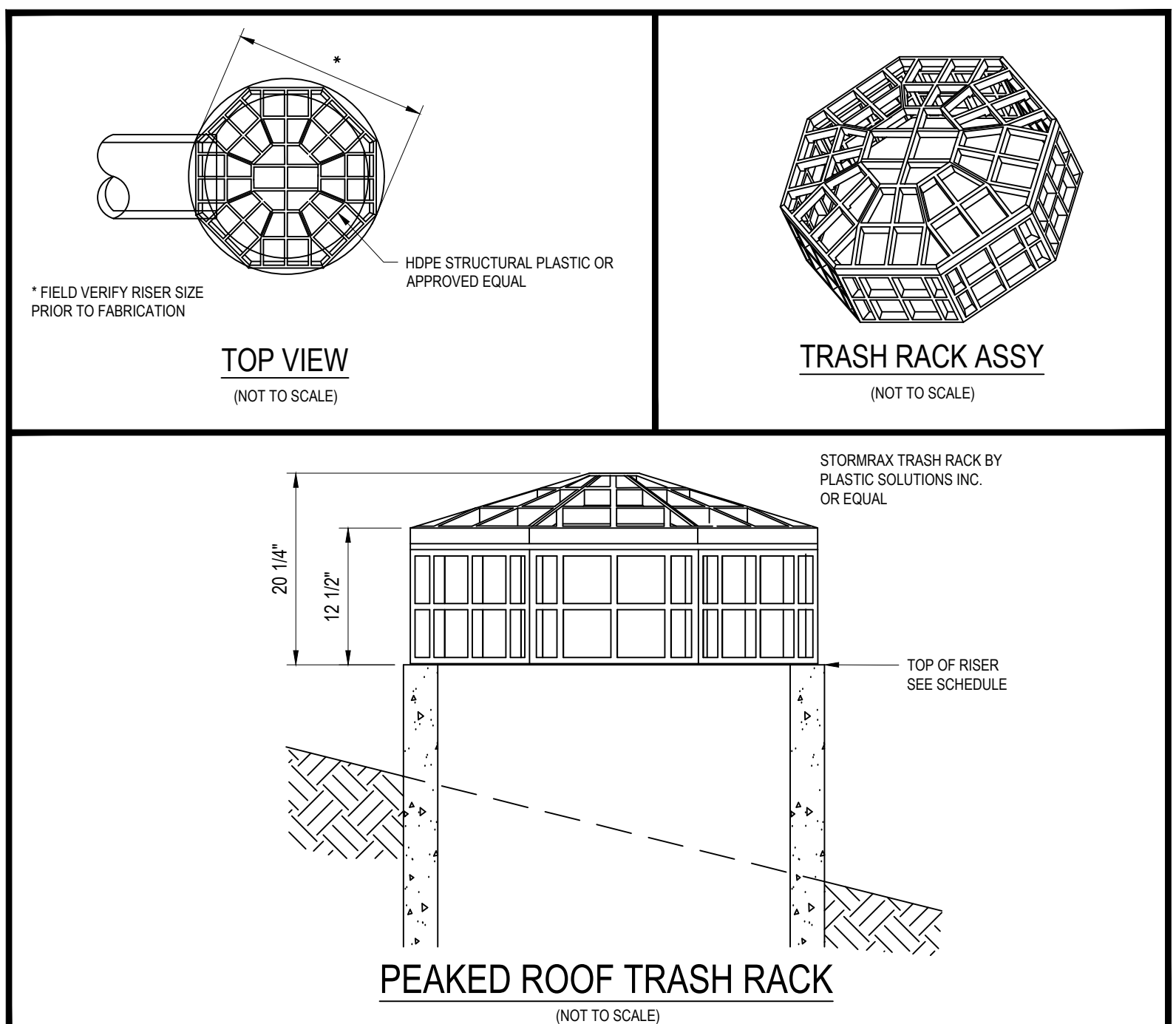
- UNDERDRAIN GRAVEL - CLEAN, HARD, ANGULAR GRAVEL CONFORMING TO NCDOT DESIGNATION # 57 OR # 8 AS APPROPRIATE.

- GEOFILTER FABRIC - NON-WOVEN, NEEDLE-PUNCHED GEOTEXTILE WITH 135 LBS. PUNCTURE STRENGTH (ASTM D-4833); 220 LBS. TENSILE STRENGTH (ASTM D-4832); AND APPARENT OPENING SIZE OF U.S. STD. #60 SIEVE (ASTM D-4751).

- UNDERDRAIN PIPING - NOMINAL 4" DIAMETER SCHEDULE 40 PVC, WITH 3/8" DIAMETER PERFORATIONS SPACED EQUALLY AROUND THE FULL PIPE PERIMETER. CLEANOUT PIPE AND FITTINGS SHALL BE SOLVENT-WELDED SCHEDULE 40 PVC PER THE DETAIL SHOWN AND EXTEND AT LEAST 8" ABOVE THE MULCH LAYER. MINIMUM 1 CLEANOUT PER 1000 SQUARE FEET OF SURFACE AREA OF THE DEVICE.



OUTLET PIPE DETAIL



TOP VIEW

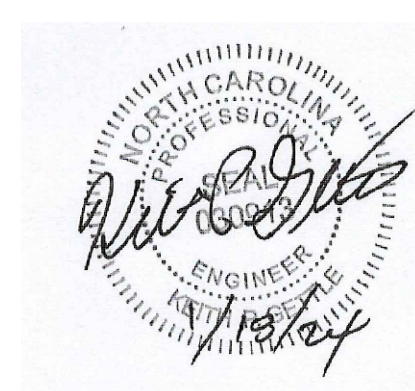
TRASH RACK ASSY

PEAKED ROOF TRASH RACK

BMP Schedule	
Top of Dam	313.50
Spillway (20')	313.00
Top of Riser	312.50
Bottom of Riser (Inv)	308.25
Drawdown Orifice	6"
Orifice Invert	312.00
Media Surface	311.00
Discharge Pipe Dia.	24"
Discharge Length	45'
Discharge Inv Out	308.00
WQV Elevation	312.00
Q1 Elevation	312.53
Q10 Elevation	312.97
Q100 Elevation	313.40
Seasonal High Water Table	306.00

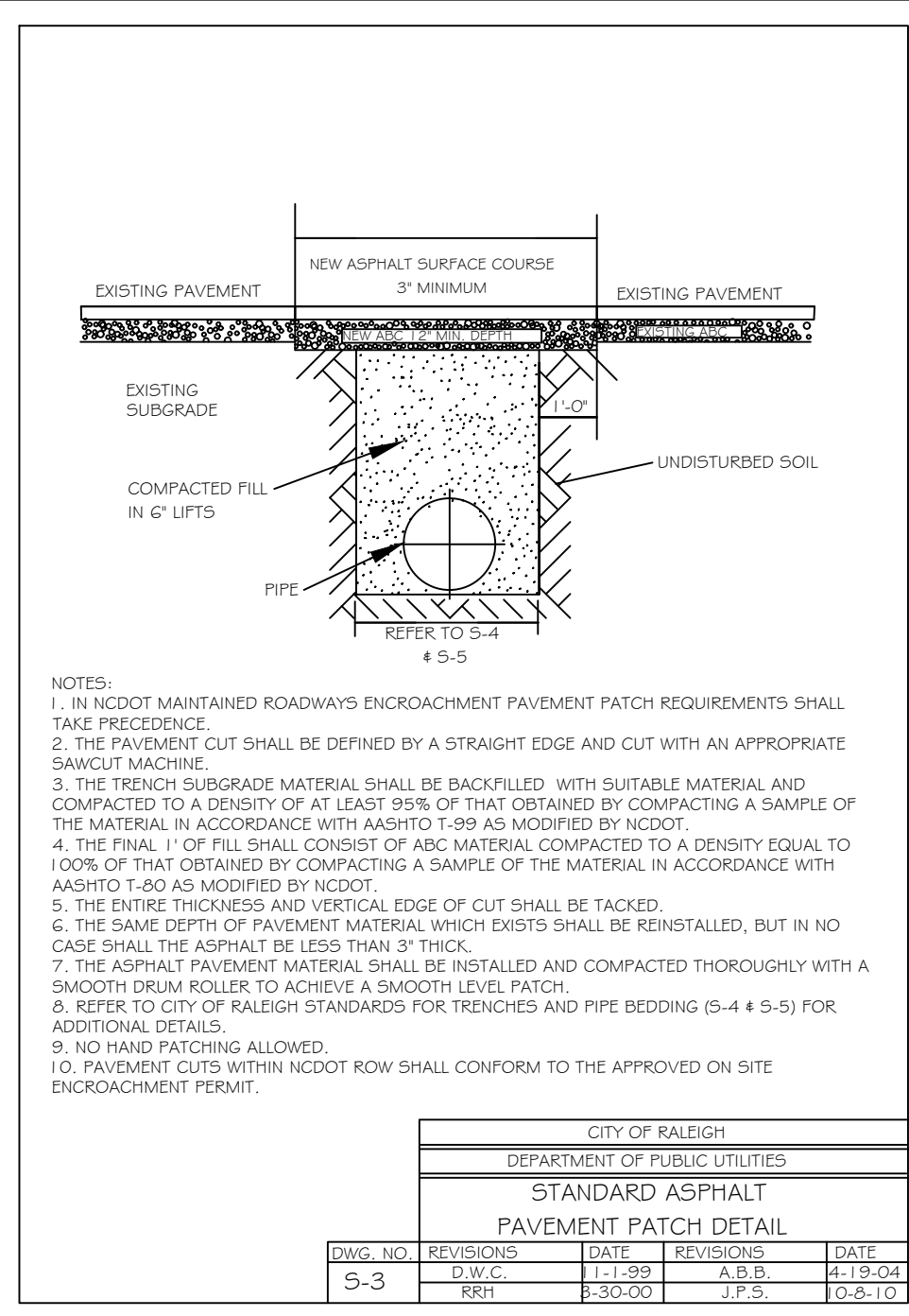
Gettle Engineering and Design, PLLC
 3616 Waxwing Court,
 Wake Forest, North Carolina 27587
 (919) 210-3934 Firm License P-2538

NO	DATE	BY	REVISION DESCRIPTION
1	01/05/2024	Per Town Comment	
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8	DATE	COMMENT	



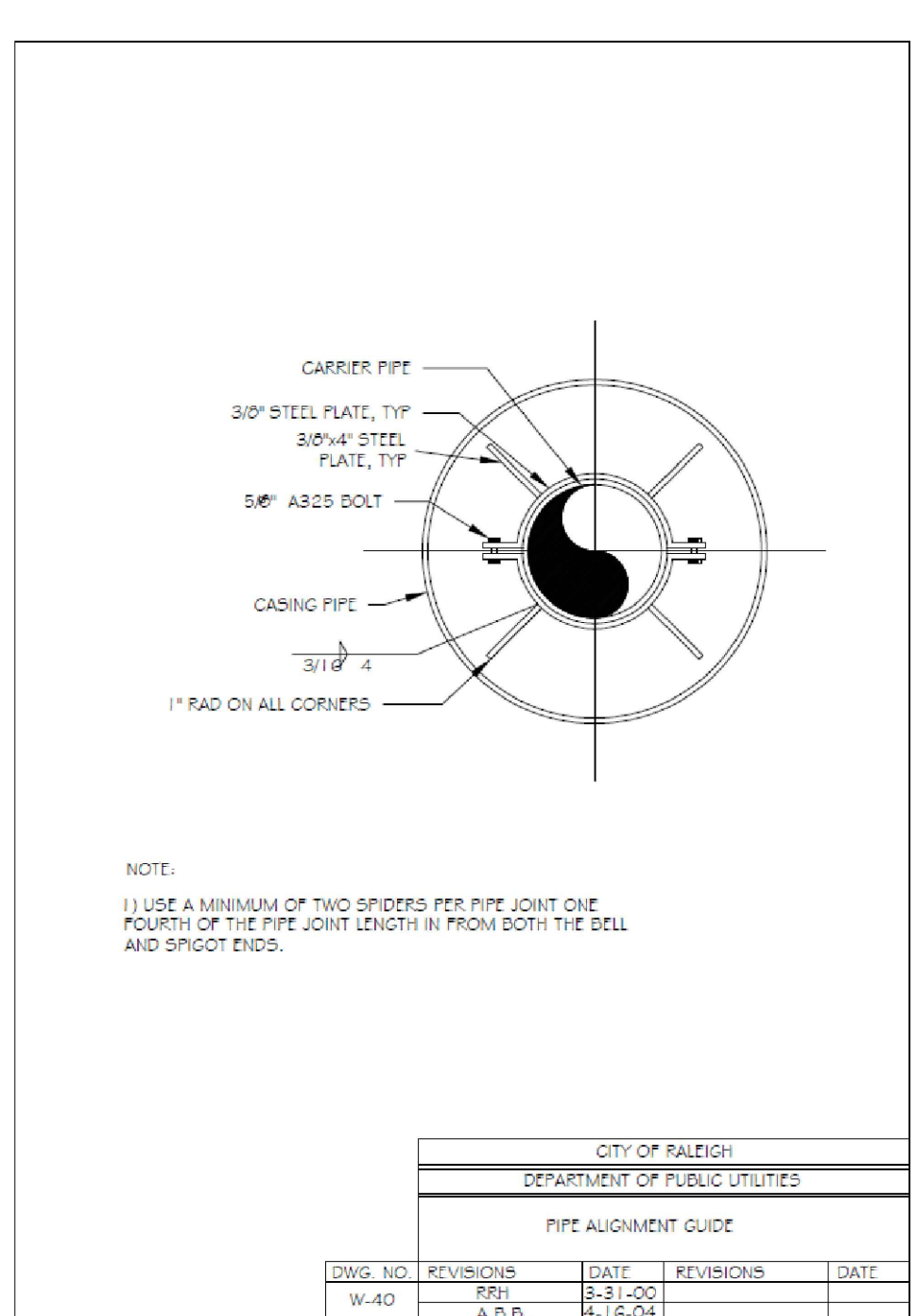
BMP Bioretention Detail
StorageMax (1098359)
 901 Proctor Street
 Zebulon, Wake County, North Carolina

Project No. 23001
 Dwg No. **D3**



- NOTES:
1. IN NCOT 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 NCOT.
 4. THE FINAL 1\"/>

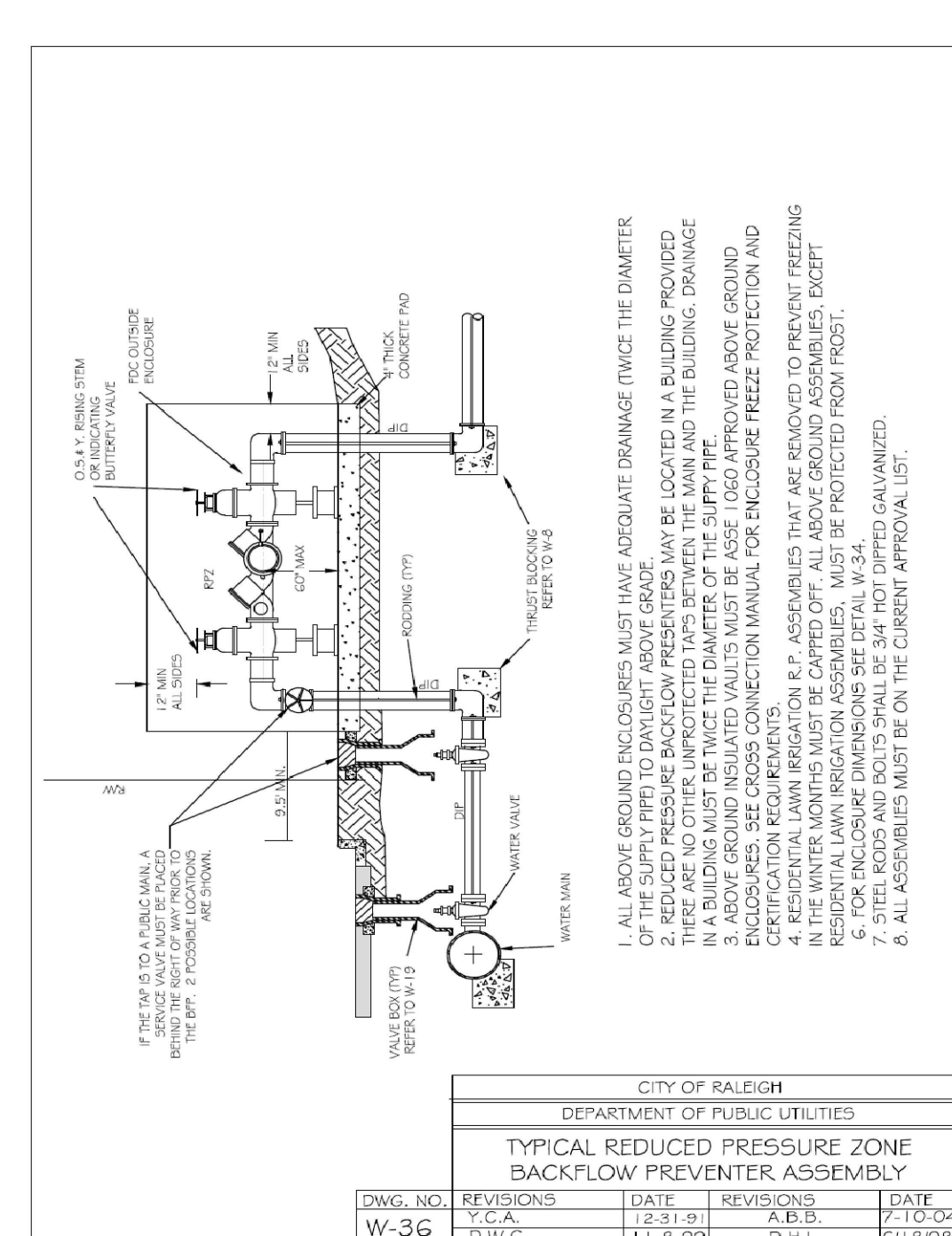
CITY OF RALEIGH			
DEPARTMENT OF PUBLIC UTILITIES			
STANDARD ASPHALT PAVEMENT PATCH DETAIL			
DWG. NO.	REVISIONS	DATE	DATE
5-3	RRH	3-30-00	12-19-04



NOTE:

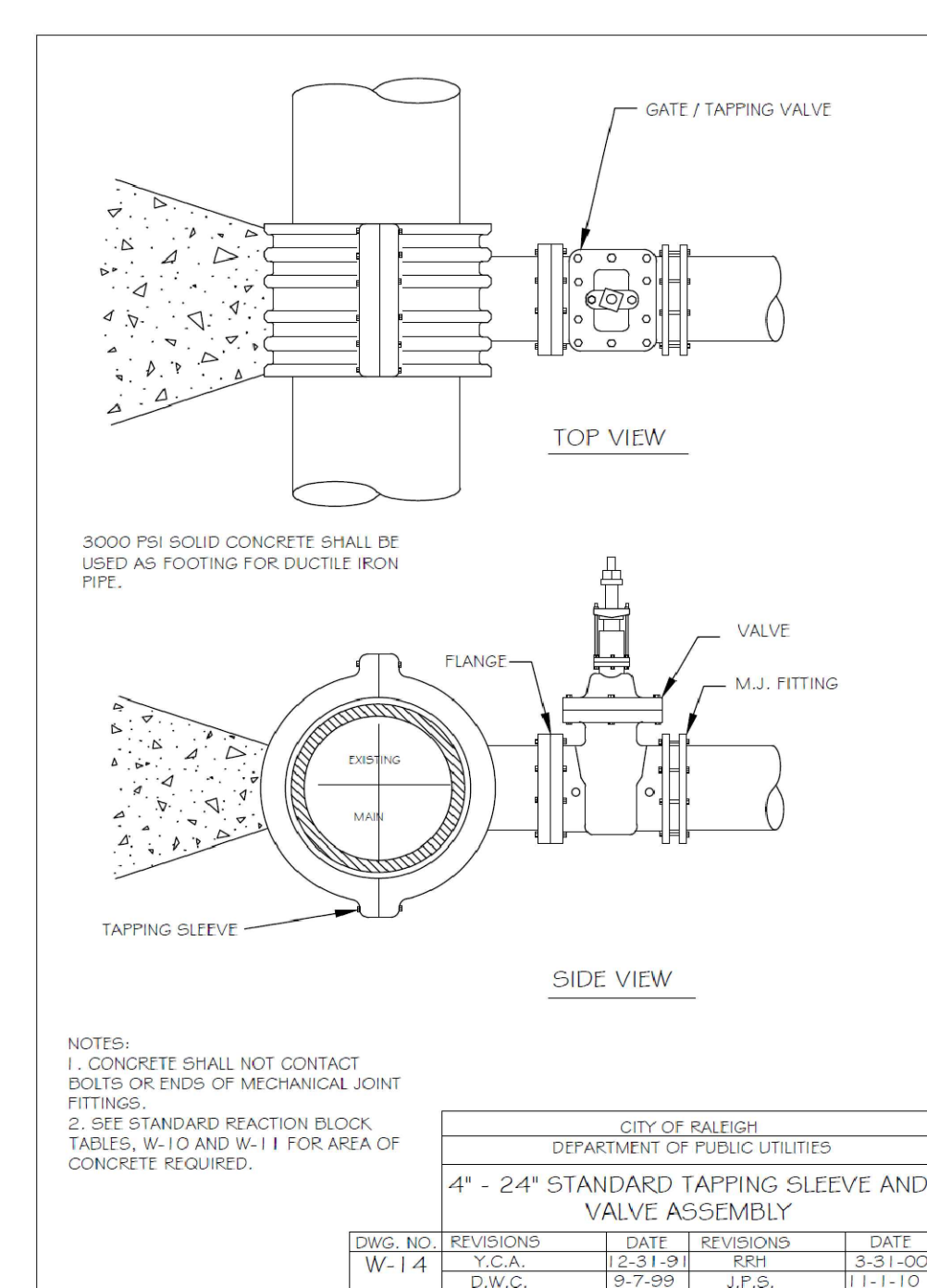
- 1) USE A MINIMUM OF TWO SPIES PER PIPE JOINT ONE FOURTH OF THE PIPE JOINT LENGTH IN FROM BOTH THE BELL AND SPIGOT ENDS.

CITY OF RALEIGH			
DEPARTMENT OF PUBLIC UTILITIES			
PIPE ALIGNMENT GUIDE			
DWG. NO.	REVISIONS	DATE	DATE
W-40	RRH	3-31-00	7-10-04
	A.B.D.	4-18-04	



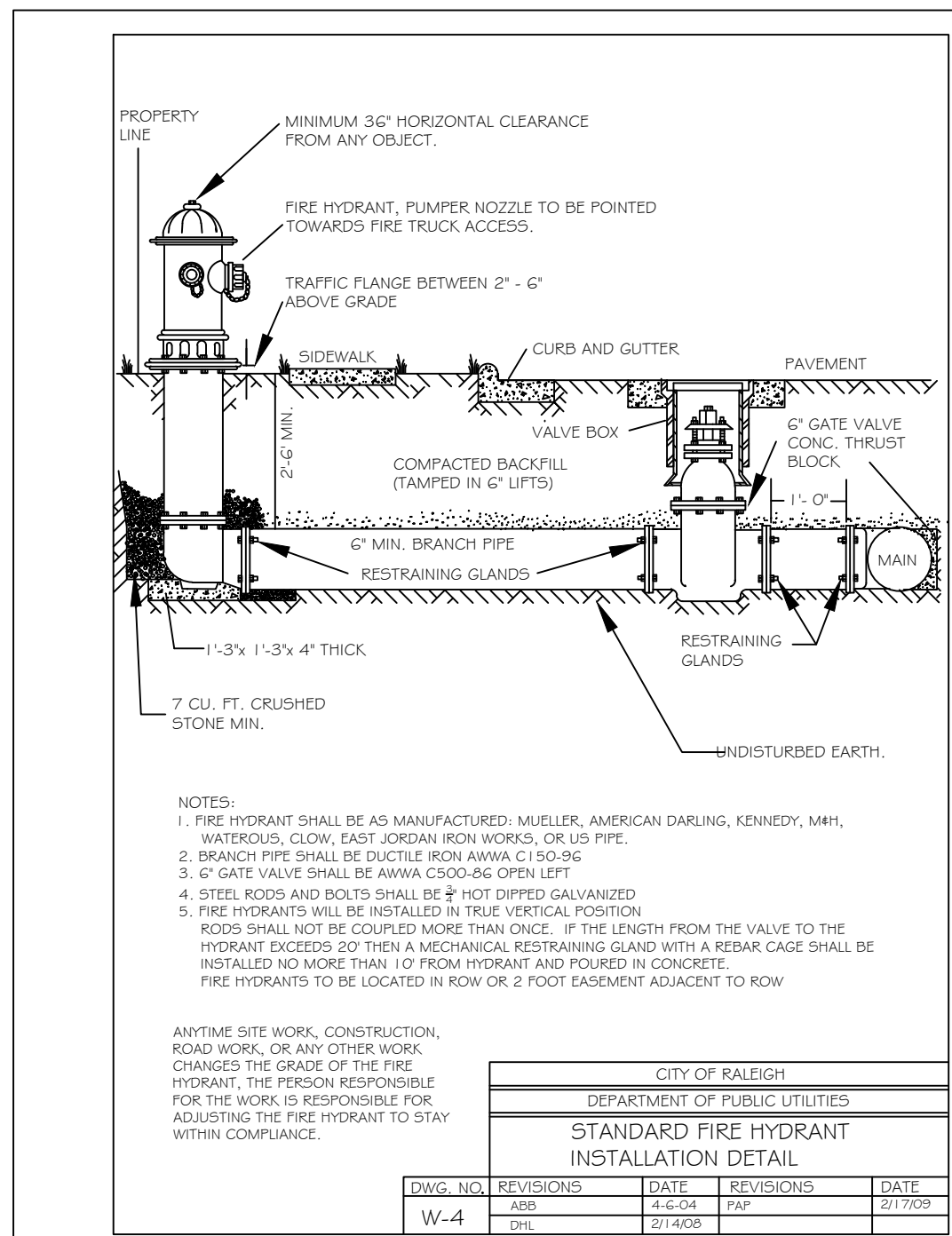
1. ALL ABOVE GROUND ENCLOSURES MUST HAVE ADEQUATE DRAINAGE TWICE THE DIAMETER OF THE SUPPLY PIPE TO DRAIN TO ABOVE GRADE.
2. REDUCED PRESSURE BACKFLOW PREVENTERS MAY BE LOCATED IN A BUILDING PROVIDED THE DEVICE IS PROTECTED FROM FREEZE DAMAGE AND THE BUILDING DRAINAGE IN A BUILDING MUST BE TWICE THE DIAMETER OF THE SUPPLY PIPE.
3. ABOVE GROUND ISOLATED VALVES MUST BE ASSESS (100% APPROVED ABOVE GROUND IDENTIFICATION REQUIREMENTS).
4. RESIDENTIAL LAWN IRRIGATION SYSTEMS THAT ARE EXPOSED TO FREEZING TEMPERATURES MUST BE PROTECTED FROM FREEZING DAMAGE BY INSULATION, HEATING, OR OTHER MEANS.
5. FOR ENCLOSURE DIMENSIONS SEE DETAIL W-34.
6. ALL ASSEMBLIES MUST BE ON THE CURRENT APPROVAL LIST.

CITY OF RALEIGH			
DEPARTMENT OF PUBLIC UTILITIES			
TYPICAL REDUCED PRESSURE ZONE BACKFLOW PREVENTER ASSEMBLY			
DWG. NO.	REVISIONS	DATE	DATE
W-36	P.C.A.	12-31-99	7-10-04
	D.W.C.	11-18-99	8-11-04
	A.B.L.	7-10-04	8-11-04



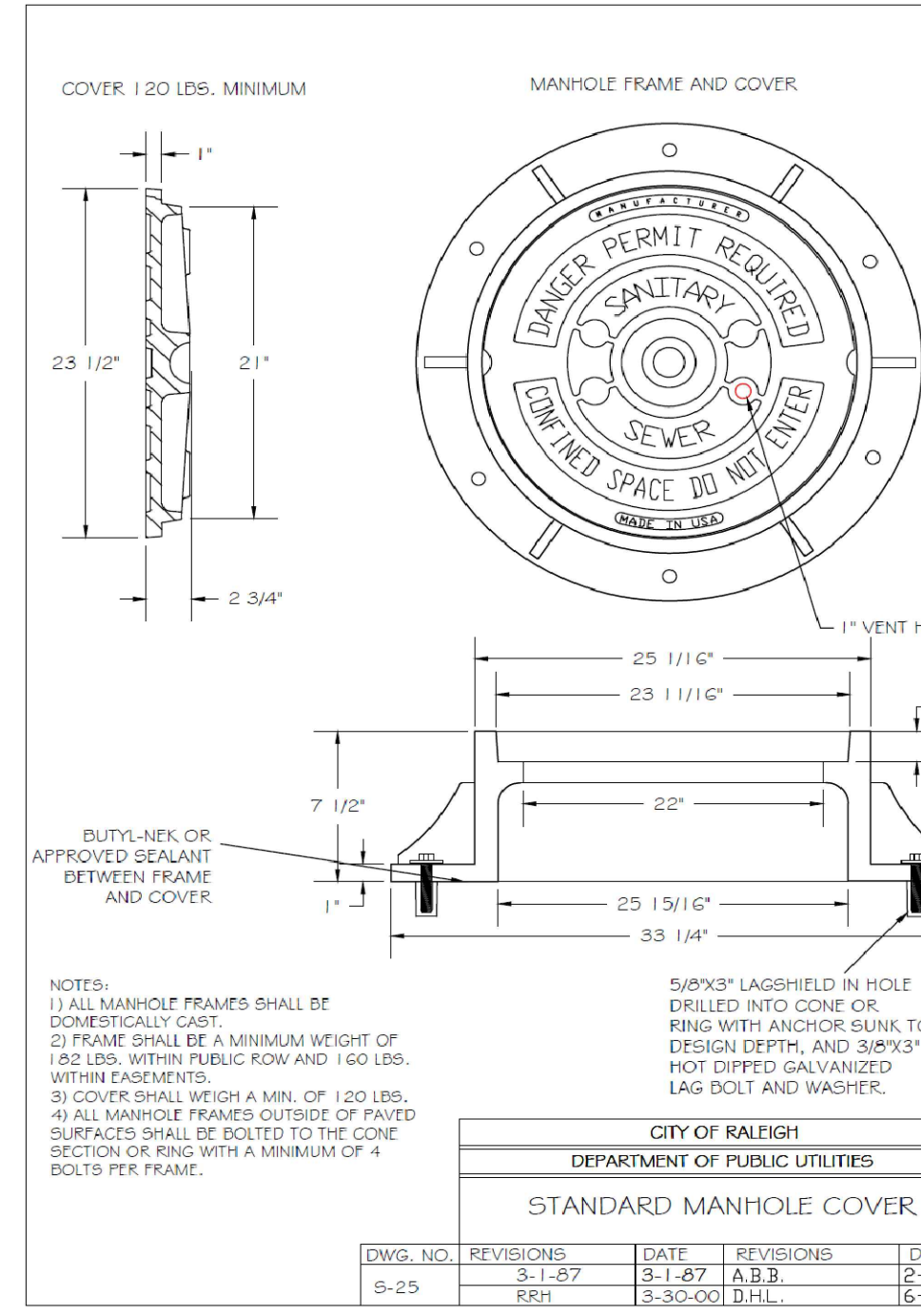
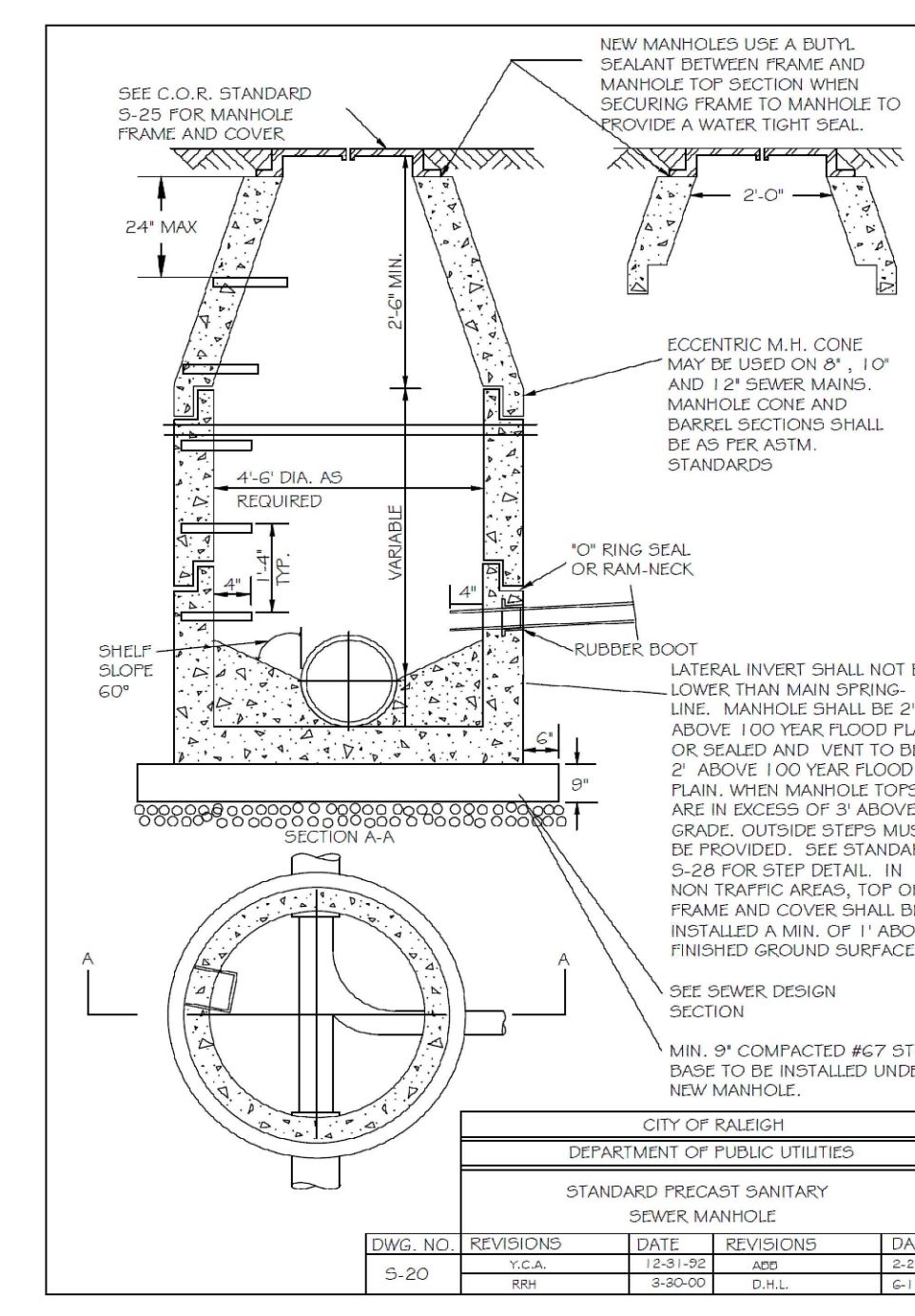
- NOTES:
1. CONCRETE SHALL NOT CONTACT ROOTS OR ENDS OF MECHANICAL JOINT FITTINGS.
 2. SEE STANDARD REACTION BLOCK TABLES, W-10 AND W-11 FOR AREA OF CONCRETE REQUIRED.

CITY OF RALEIGH			
DEPARTMENT OF PUBLIC UTILITIES			
4\"/>			
DWG. NO.	REVISIONS	DATE	DATE
W-14	P.C.A.	12-31-99	8-31-00
	D.W.C.	9-7-99	7-7-04
	J.P.S.	11-11-10	

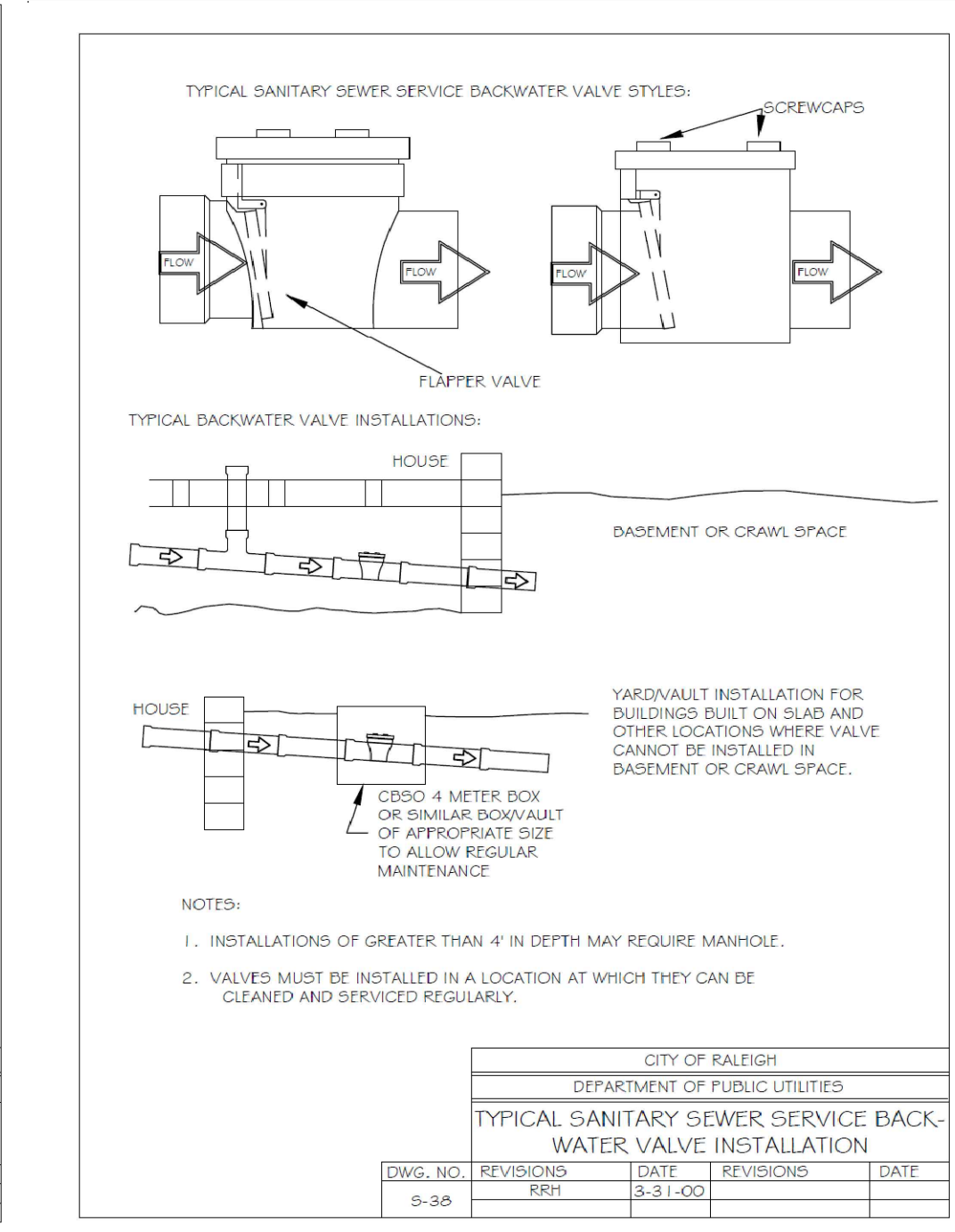


- NOTES:
1. FIRE HYDRANT SHALL BE AS MANUFACTURED: MULLER, AMERICAN DARLING, KENNEDY, MPH, WATERLOO, CLOW, EAST JORDAN IRON WORKS, OR US PIPE.
 2. BRANCH PIPE SHALL BE DUCTILE IRON WITH A C I 50-36.
 3. 6\"/>

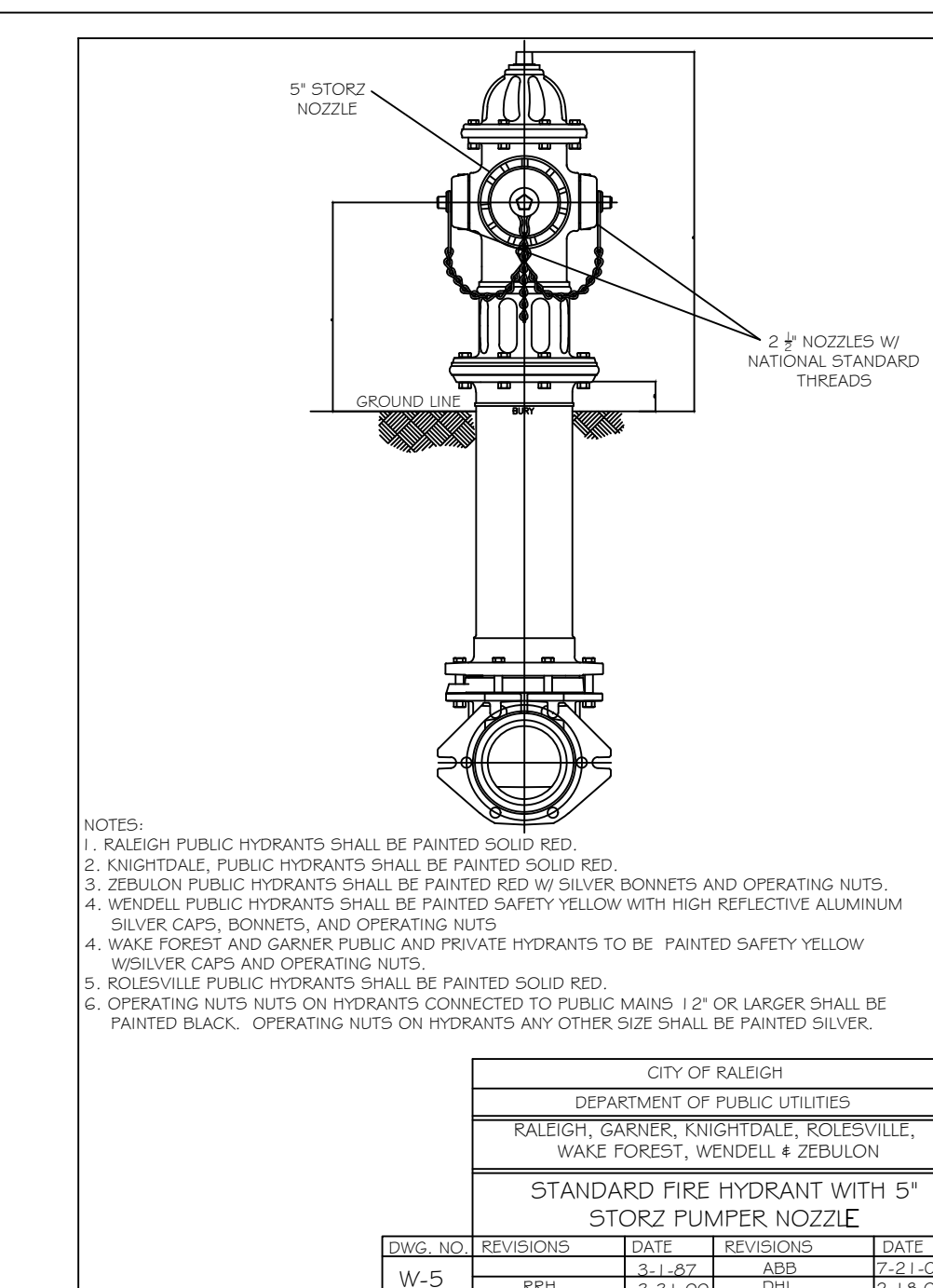
CITY OF RALEIGH			
DEPARTMENT OF PUBLIC UTILITIES			
STANDARD FIRE HYDRANT INSTALLATION DETAIL			
DWG. NO.	REVISIONS	DATE	DATE
W-4	DHL	3-14-00	8-17-00



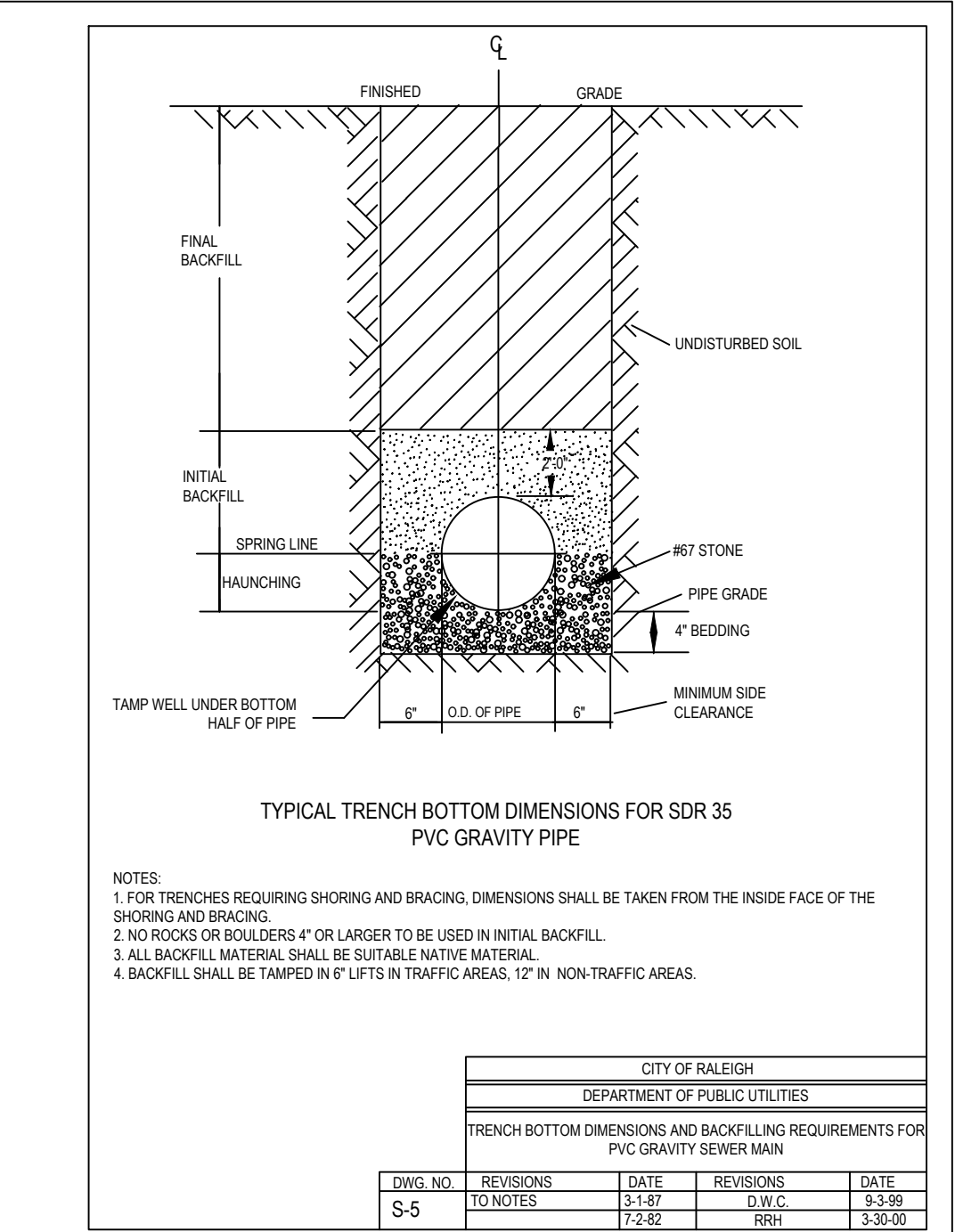
CITY OF RALEIGH			
DEPARTMENT OF PUBLIC UTILITIES			
STANDARD MANHOLE COVER			
DWG. NO.	REVISIONS	DATE	DATE
5-25	RRH	3-30-00	6-18-08



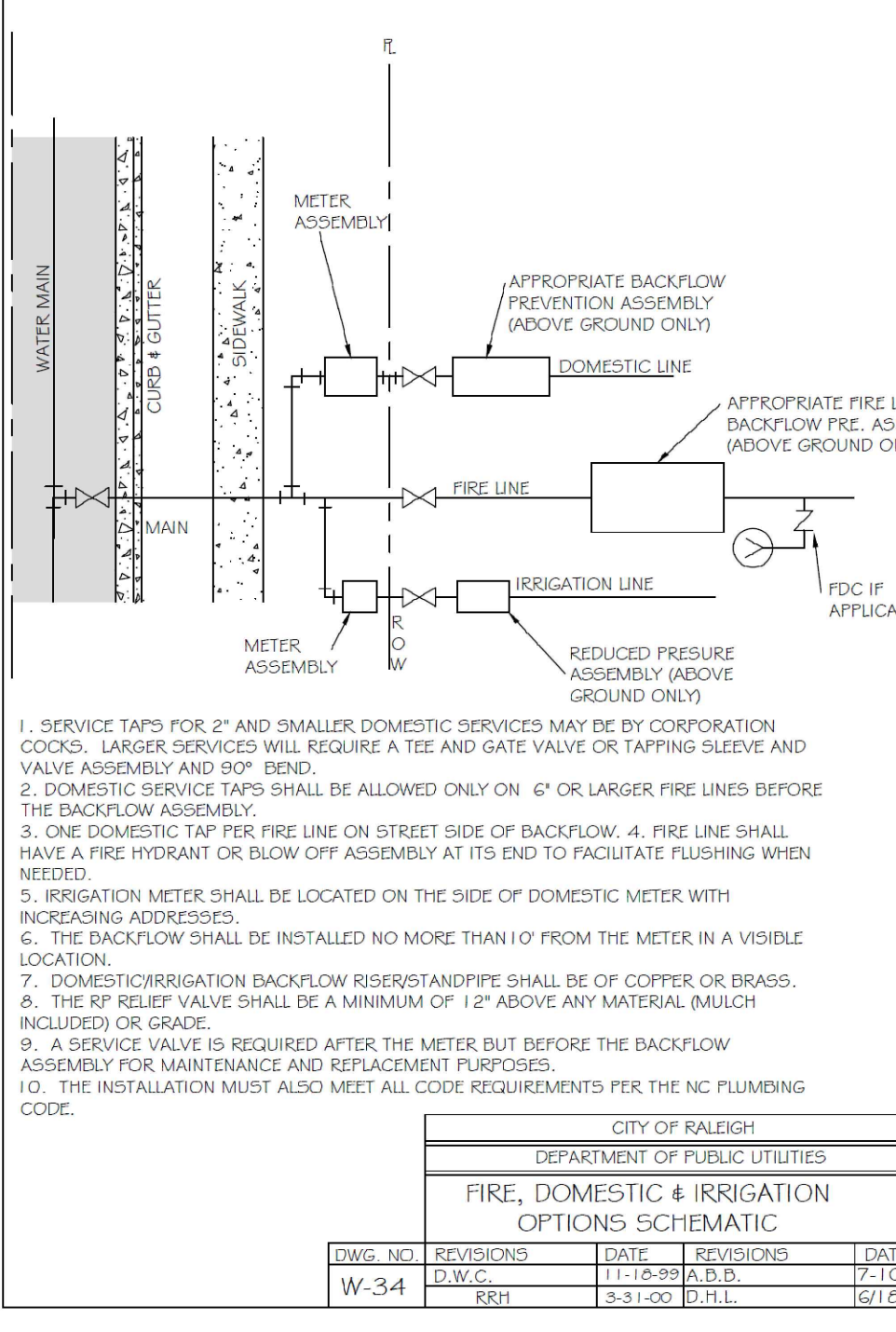
CITY OF RALEIGH			
DEPARTMENT OF PUBLIC UTILITIES			
TYPICAL SANITARY SEWER SERVICE BACK-WATER VALVE INSTALLATION			
DWG. NO.	REVISIONS	DATE	DATE
5-30	RRH	3-31-00	



CITY OF RALEIGH			
DEPARTMENT OF PUBLIC UTILITIES			
RALEIGH, GARNER, KNIGHTDALE, ROLESVILLE, WAKE FOREST, WENDELL & ZEBULON			
STANDARD FIRE HYDRANT WITH 5\"/>			
DWG. NO.	REVISIONS	DATE	DATE
W-5	RRH	3-31-00	8-18-00



CITY OF RALEIGH			
DEPARTMENT OF PUBLIC UTILITIES			
TRENCH BOTTOM DIMENSIONS AND BACKFILLING REQUIREMENTS FOR SDR 35 PVC GRAVITY SEWER MAIN			
DWG. NO.	REVISIONS	DATE	DATE
5-5	TO/NOTES	3-14-00	8-3-99
	RRH	7-2-87	3-30-00

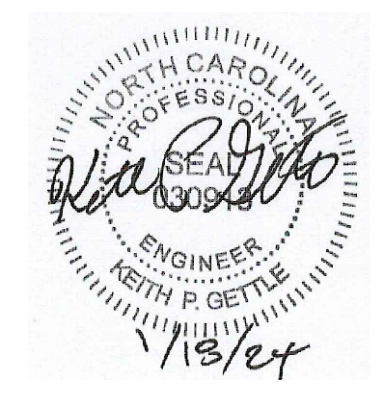


1. SERVICE TAPS FOR 2\"/>

CITY OF RALEIGH			
DEPARTMENT OF PUBLIC UTILITIES			
FIRE, DOMESTIC & IRRIGATION OPTIONS SCHEMATIC			
DWG. NO.	REVISIONS	DATE	DATE
W-34	D.W.C.	11-18-99	12-10-04
	RRH	3-31-00	8-17-00

Gettle Engineering and Design, PLLC
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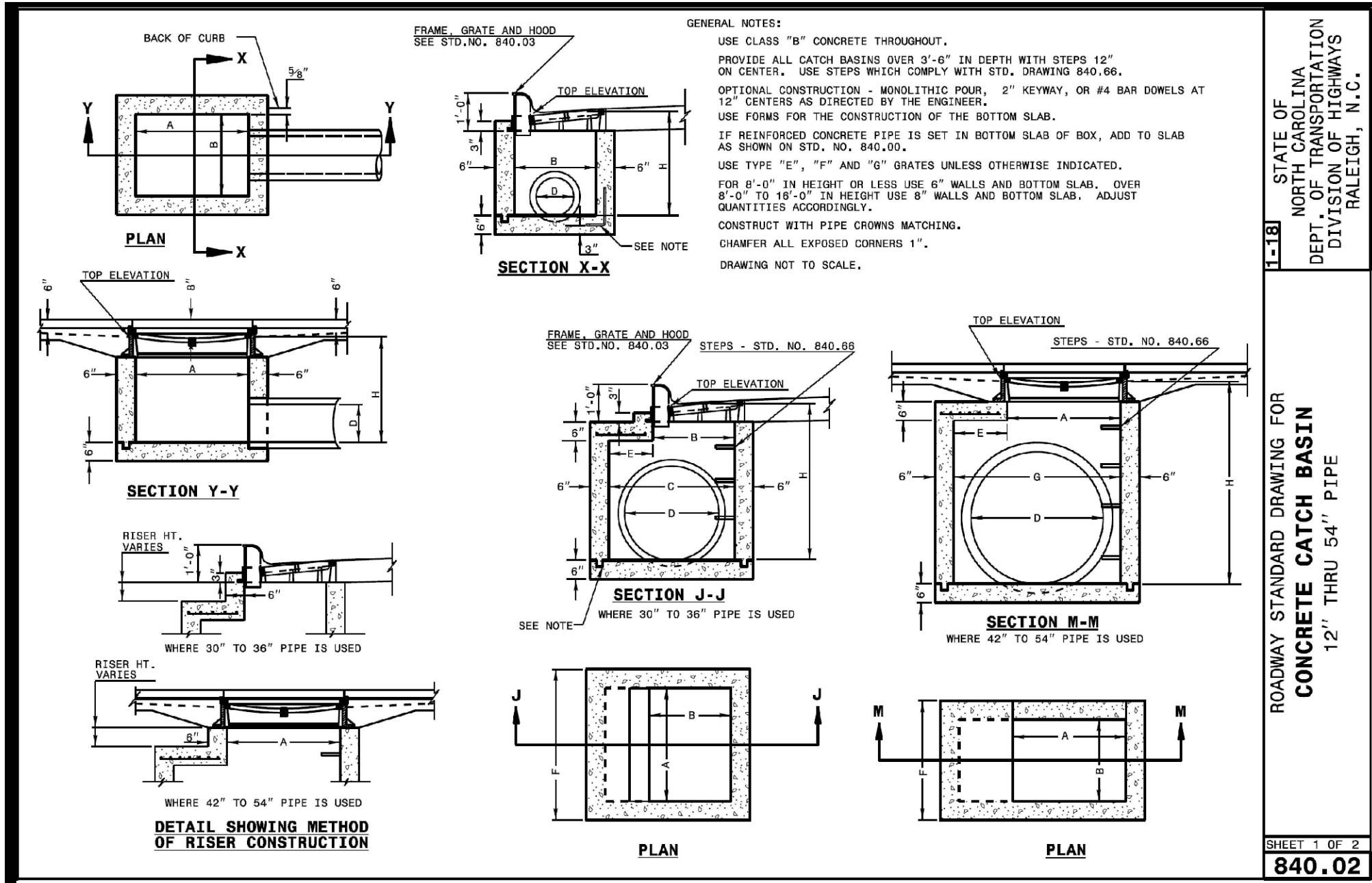


Water and Sewer Details
 StorageMax (1098359)
 901 Proctor Street
 Zebulon, Wake County, North Carolina

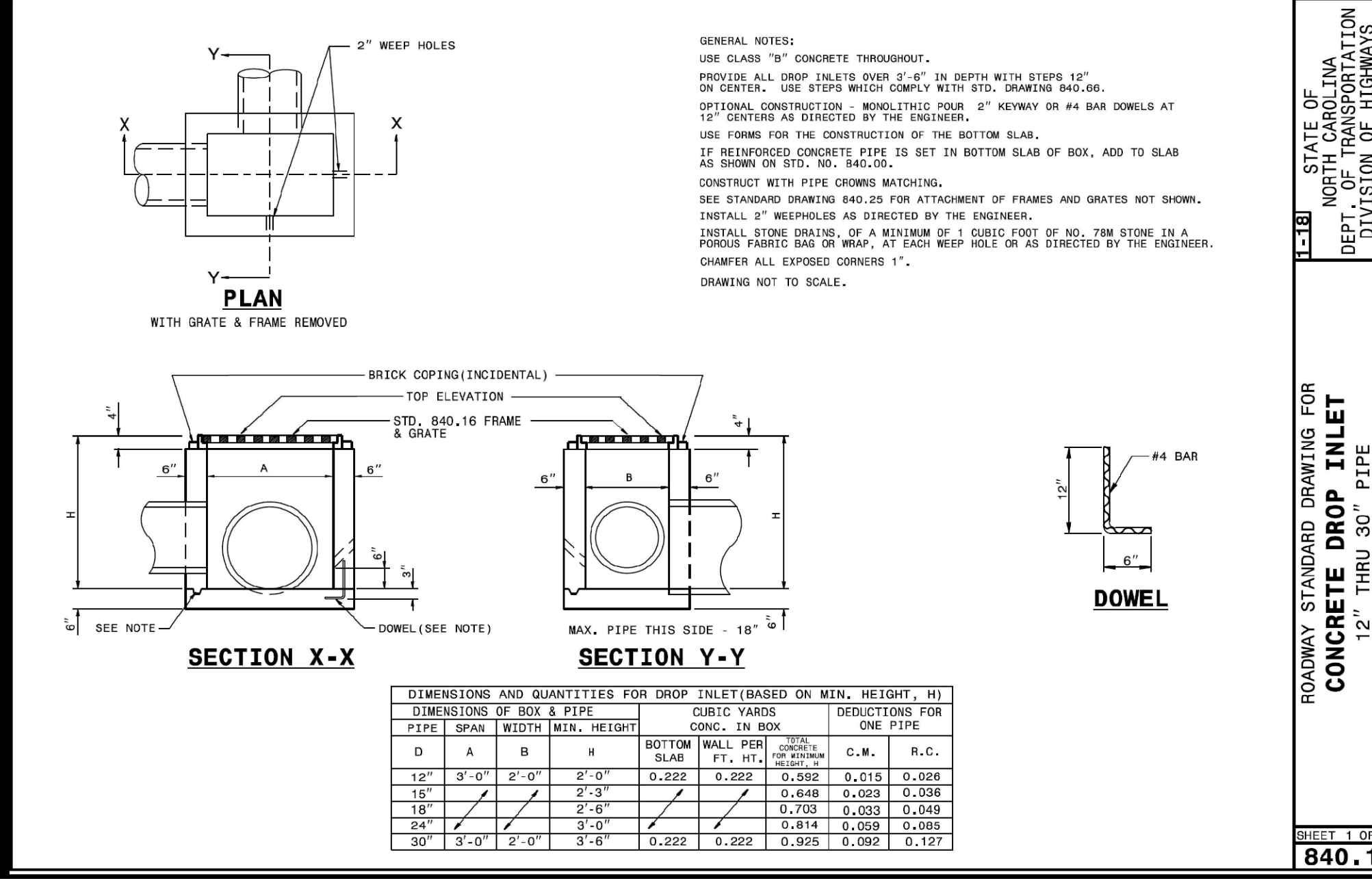
Project No. 23001
 Dwg No. **D4**

ATTENTION CONTRACTORS
 The Construction Contractor responsible for the extension of water, sewer, and/or gas, as approved in these plans, is responsible for contacting the Public Works Department at (919) 996-2409, and the Public Utilities Department at (919) 996-4550 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 reinstallation 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 Job site, 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.

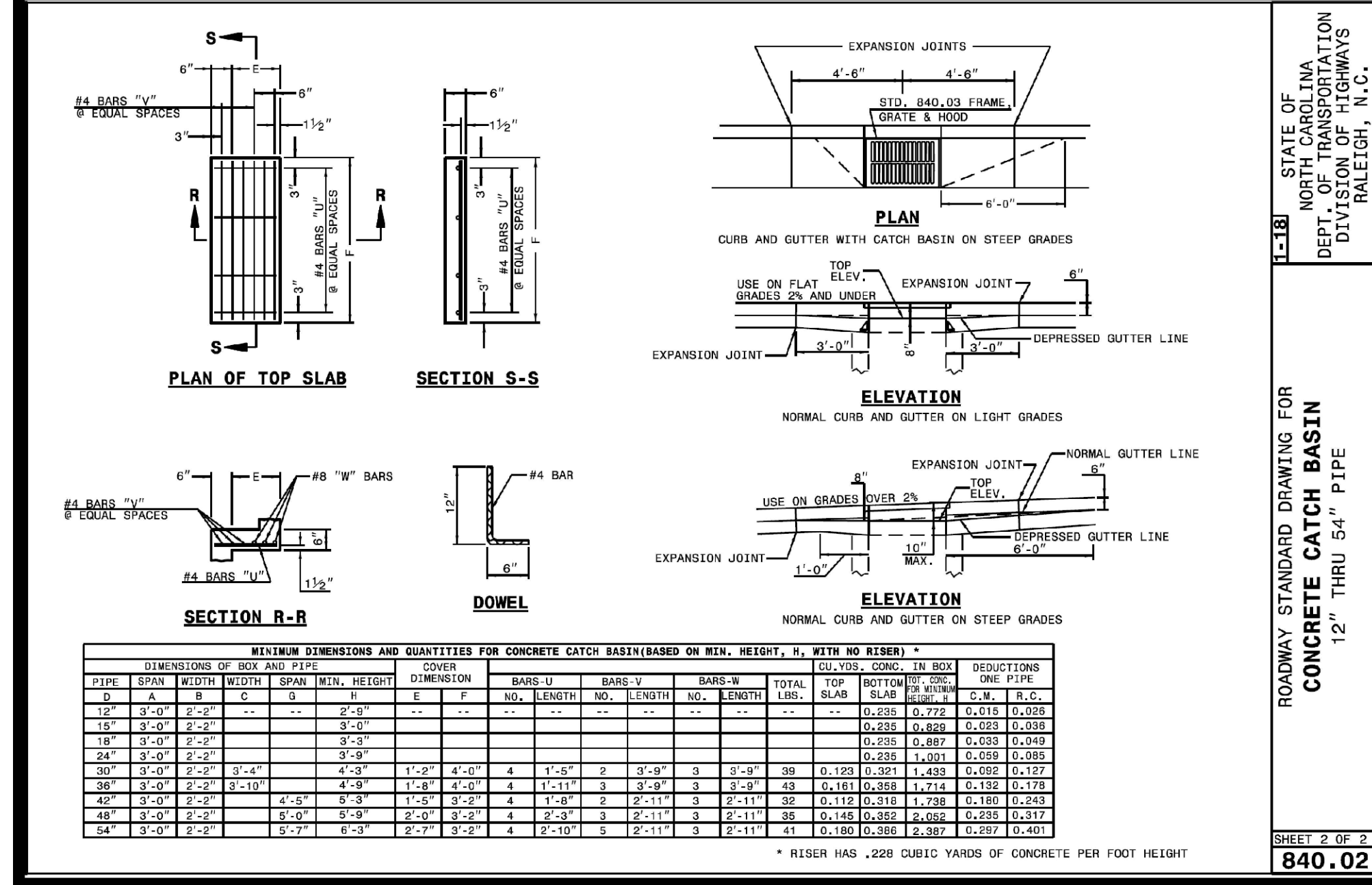
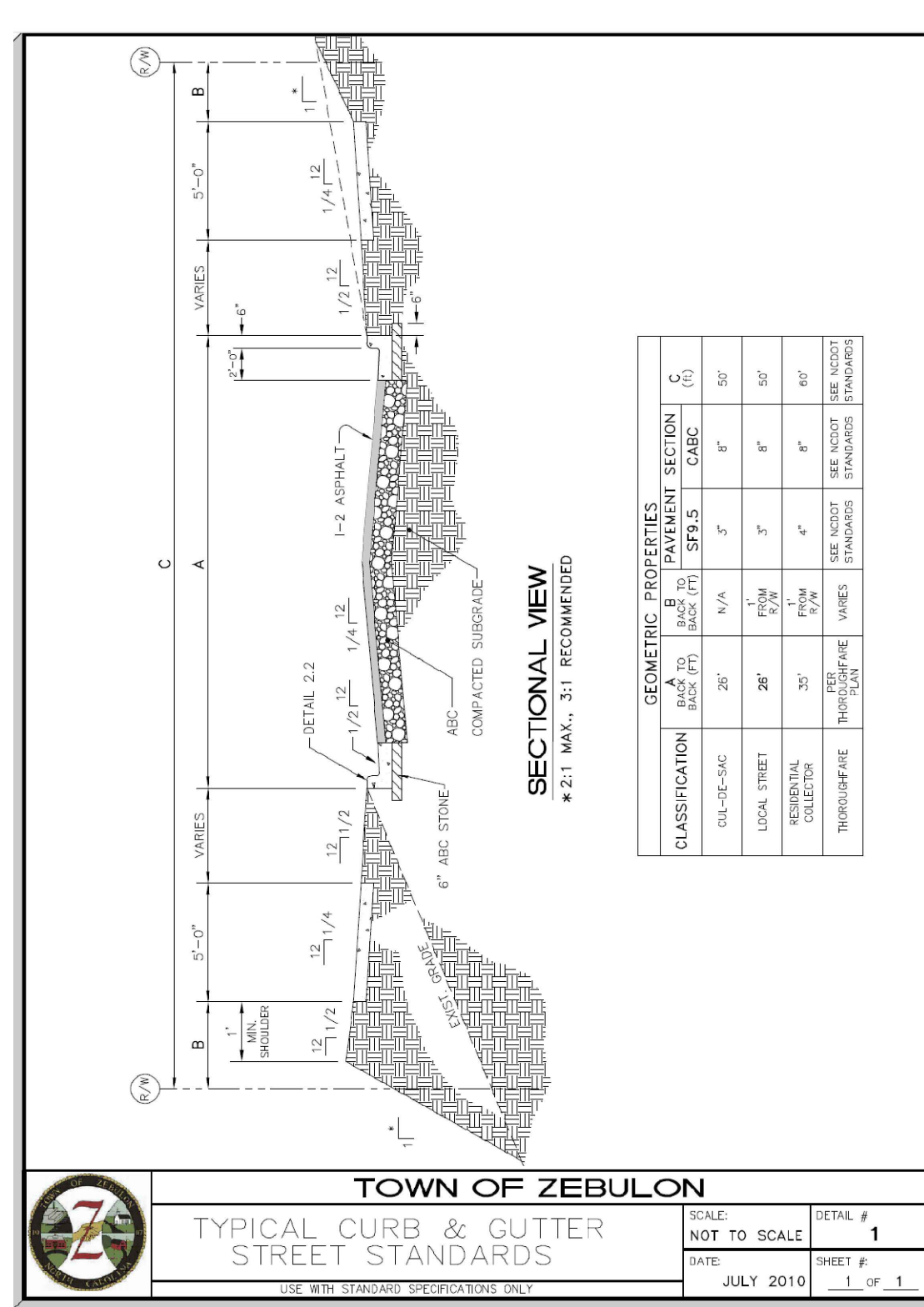
CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION
 Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and contractors are each responsible for compliance with all applicable City, State and Federal laws. This specific authorization below is not a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All construction must be in accordance with all local, State, and Federal Rules and Regulations.
 Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh 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 Raleigh Development Approval
 City of Raleigh Review Officer



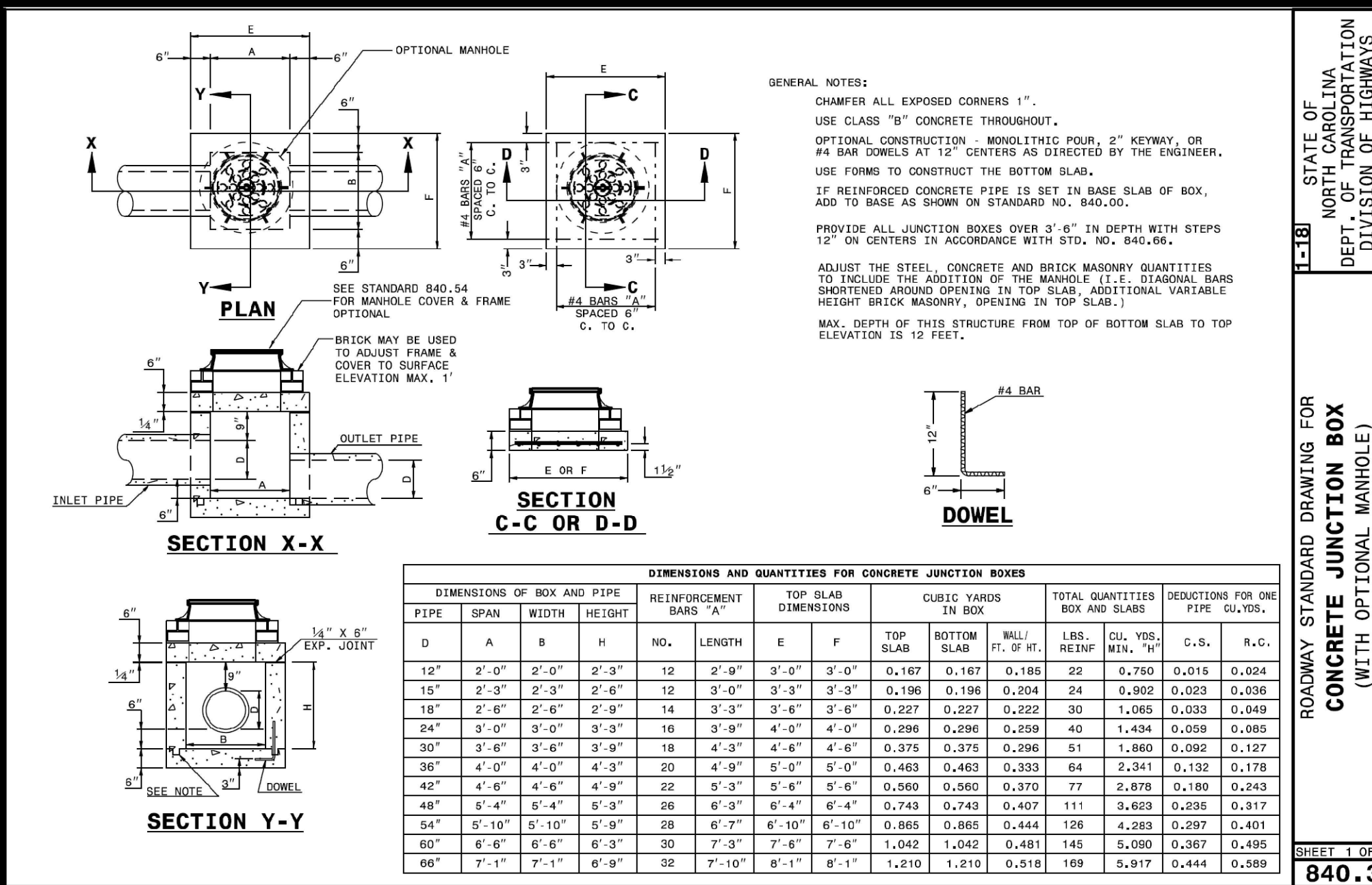
STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.
 ROADWAY STANDARD DRAWING FOR
CONCRETE CATCH BASIN
 12" THRU 54" PIPE
 SHEET 1 OF 2
840.02



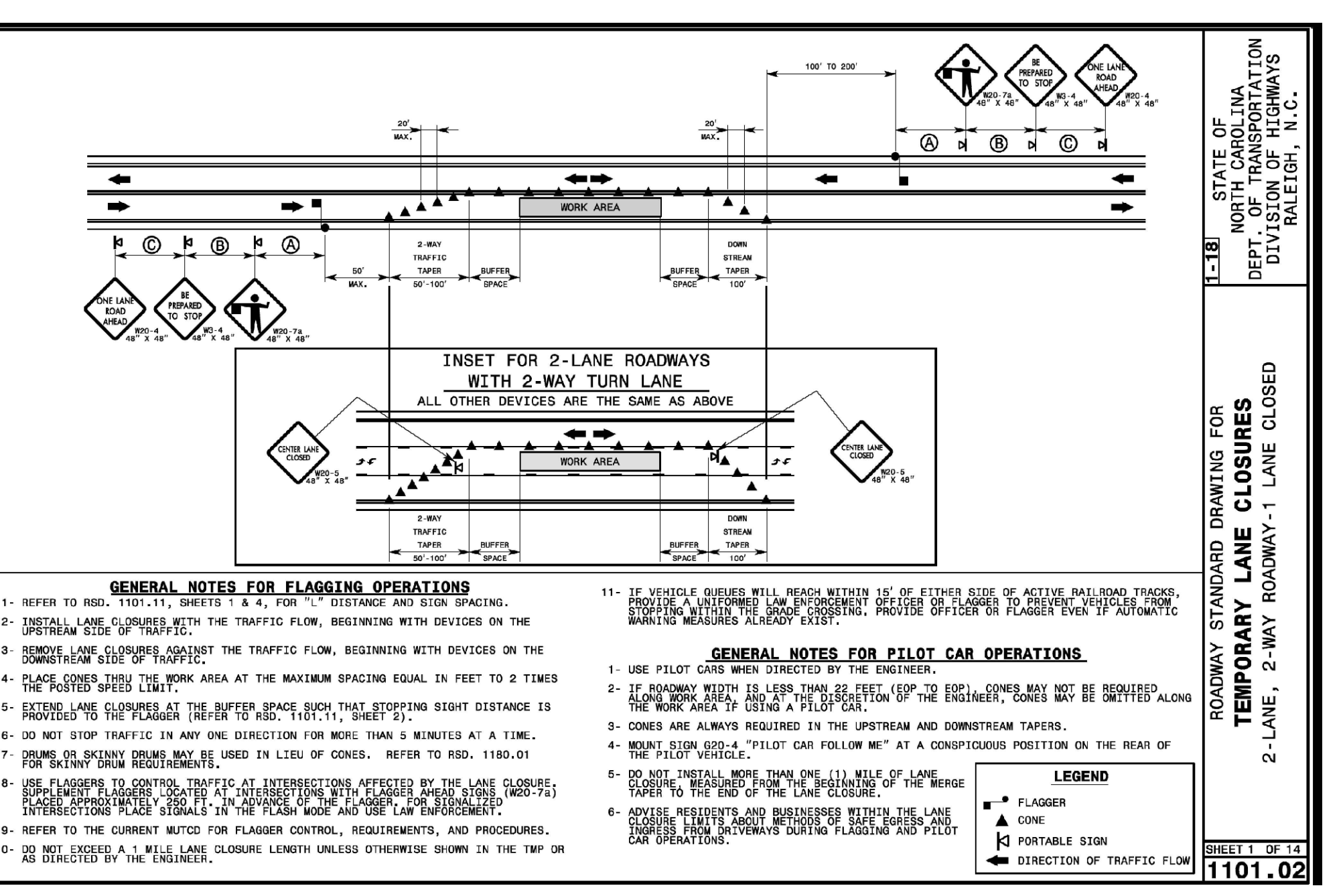
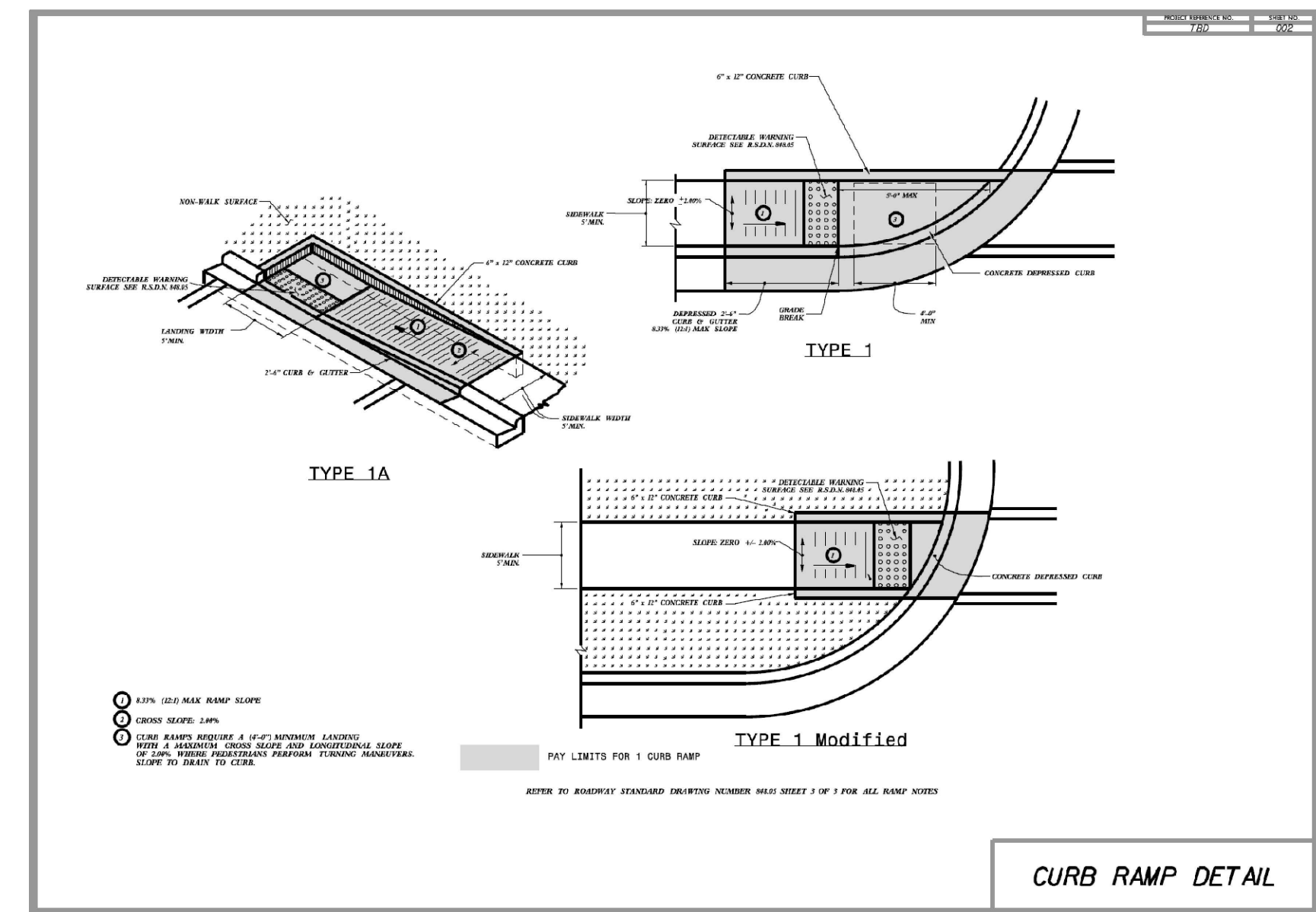
STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.
 ROADWAY STANDARD DRAWING FOR
CONCRETE DROP INLET
 12" THRU 30" PIPE
 SHEET 1 OF 1
840.14



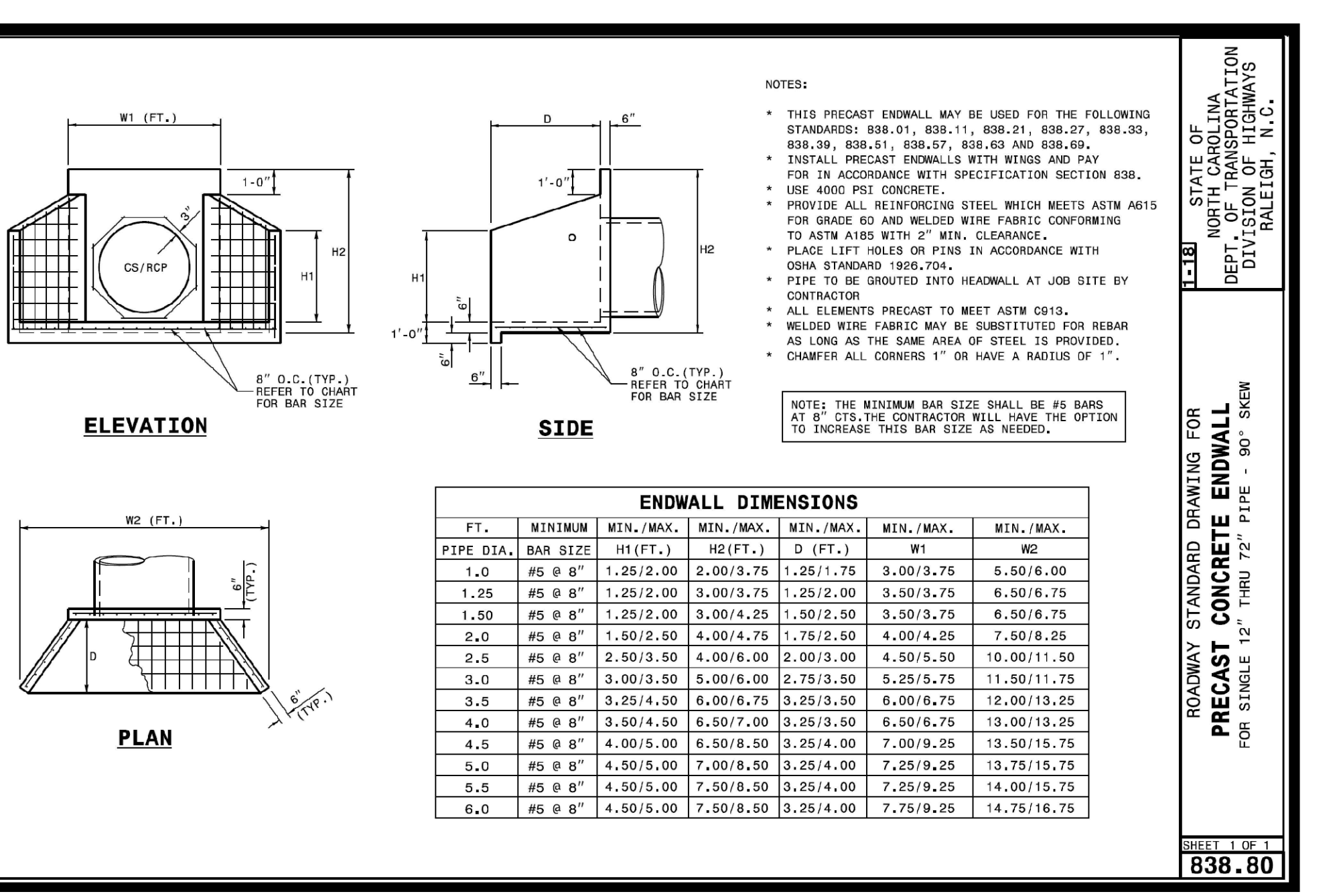
STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.
 ROADWAY STANDARD DRAWING FOR
CONCRETE CATCH BASIN
 12" THRU 54" PIPE
 SHEET 2 OF 2
840.02



STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.
 ROADWAY STANDARD DRAWING FOR
CONCRETE JUNCTION BOX
 (WITH OPTIONAL MANHOLE)
 12" THRU 66" PIPE
 SHEET 1 OF 1
840.31



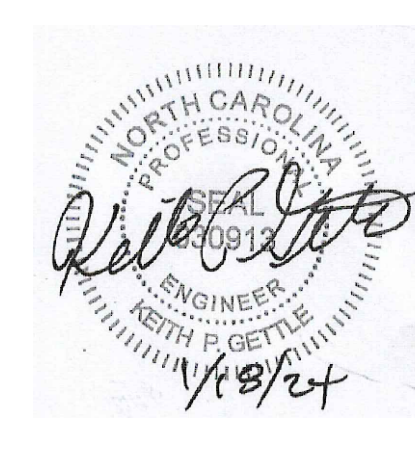
STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.
 ROADWAY STANDARD DRAWING FOR
TEMPORARY LANE CLOSURES
 2-LANE, 2-WAY ROADWAY-1 LANE CLOSED
 SHEET 1 OF 14
1101.02



STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.
 ROADWAY STANDARD DRAWING FOR
PRECAST CONCRETE ENDWALL
 FOR SINGLE 12" THRU 72" PIPE - 90° SKEW
 SHEET 1 OF 1
838.80

Gettle Engineering and Design, PLLC
 3616 Waxwing Court,
 Wake Forest, North Carolina 27587
 (919) 210-3334
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4		BY	COMMENT
5		BY	COMMENT
6		BY	COMMENT
7		BY	COMMENT
8		BY	COMMENT



NCDOT Roadway Details
 StorageMax (1098359)
 901 Proctor Street
 Zebulon, Wake County, North Carolina

Project No. 23001
 Dwg No. **D5**

BASIN NUMBER	DRAIN AREA(ACRES)	BASIN SIZE	Q10 FLOW(CFS)	BASIN SURFACE AREA(SF)	REQUIRED SURFACE AREA(SF)	BASIN VOLUME (CF)	REQUIRED BASIN VOLUME (CF)	SPILLWAY LENGTH (FT)	SKIMMER / ORIFICE DIAMETER (IN.)	TOP OF BERM ELEV.	EMERGENCY SPILLWAY ELEV.	BOTTOM OF BASIN
1	4.83	52' x 82'	5.38	4264	1749	9068	8694	10	2 / 1.5	310	311.5	307.5
2	1.1	68' x 35'	5.38	2380	2344	3620	1980	*	2 / 1	319	*	317
3	0.44	60' x 40'	5.38	2400	2344	4043	1584	10	*	310	309.5	308

Channel Design Calculations													
Channel	Drain Area, ac	Channel Length, ft	Channel Drop, ft	C	Q10 I, in/hr	Flow cfs	Channel Slope, ft/ft	n	Side Slope:1	Bottom Width, ft	Depth of Flow, ft	Velocity fps	Liner
TD1	1.26	290	8	0.55	5.38	3.7	0.0276	0.024	3.00	0.0	0.55	4.18	Jute Mesh
TD2	1.26	155	1	0.55	5.38	9.1	0.0065	0.020	3.00	0.0	0.93	3.47	Jute Mesh
TD3	1.12	211	2	0.55	5.38	3.3	0.0095	0.020	3.00	0.0	0.60	3.11	Jute Mesh
TD4	0.68	229	4	0.55	5.38	2.0	0.0175	0.020	3.00	0.0	0.44	3.46	Jute Mesh
TD5	0.45	306	6	0.55	5.38	1.3	0.0196	0.020	3.00	0.0	0.37	3.26	Jute Mesh

Skimmer Basin 1

Okay

4.83	Area (Acres)
5.38	Peak Flow from 10-year Storm (cfs)
8694	Required Volume ft ³
1749	Required Surface Area ft ²
29.6	Suggested Width ft
59.1	Suggested Length ft
82	Trial Top Width at Spillway Invert ft
52	Trial Top Length at Spillway Invert ft
2	Trial Side Slope Ratio Z:1
2.5	Trial Depth ft (2 to 3.5 feet above gr.)
72	Bottom Width ft
42	Bottom Length ft
3024	Bottom Area ft ²
9068	Actual Volume ft ³
4264	Actual Surface Area ft ²
10	Trial Weir Length ft
0.5	Trial Depth of Flow ft
10.6	Spillway Capacity cfs
2	Skimmer Size (inches)
0.2	Head on Skimmer (feet)
1.5	Orifice Size (1/4 inch increments)
3.74	Dewatering Time (days)
	Suggest about 3 days

Temporary Sediment Basin 2

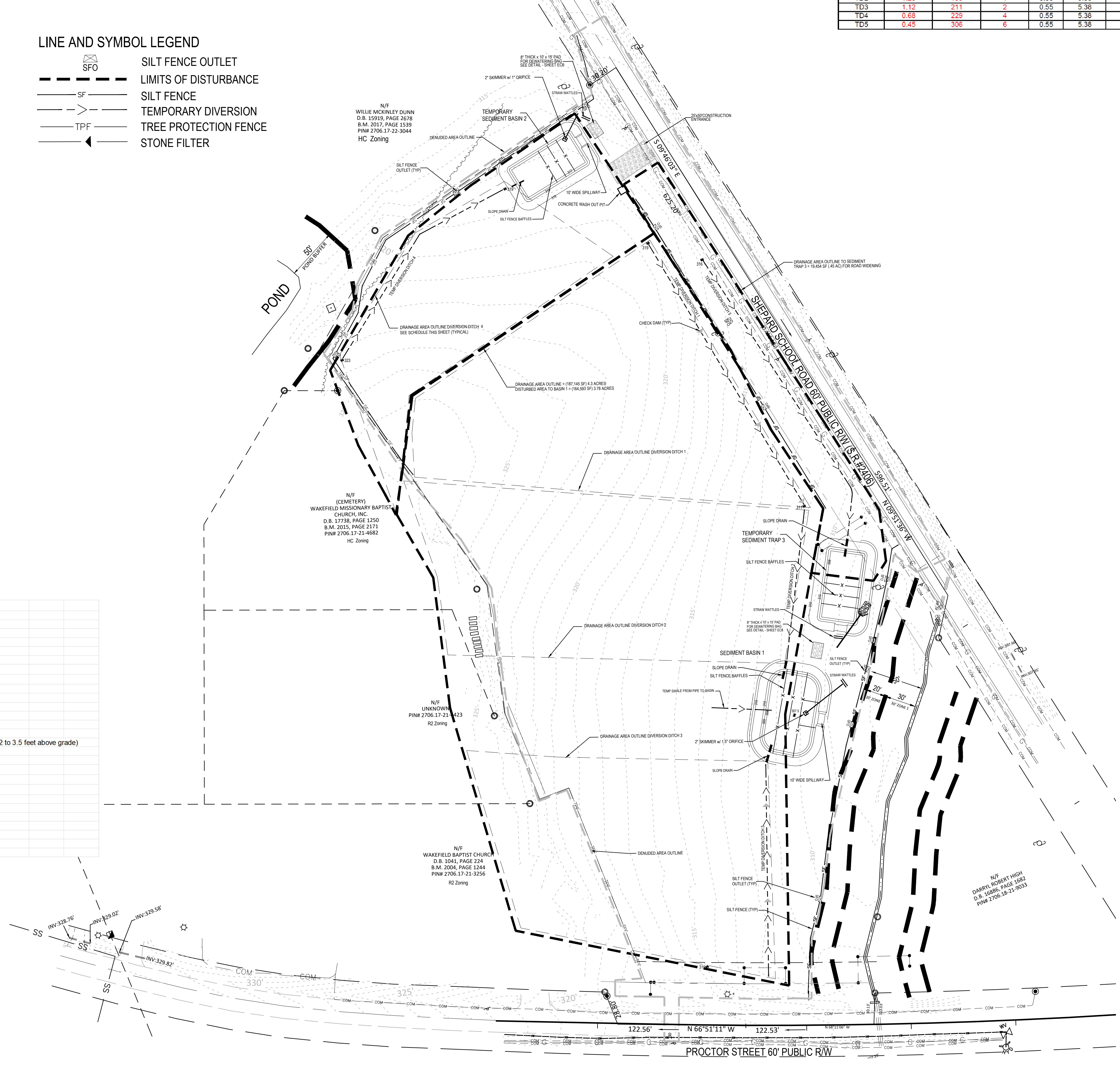
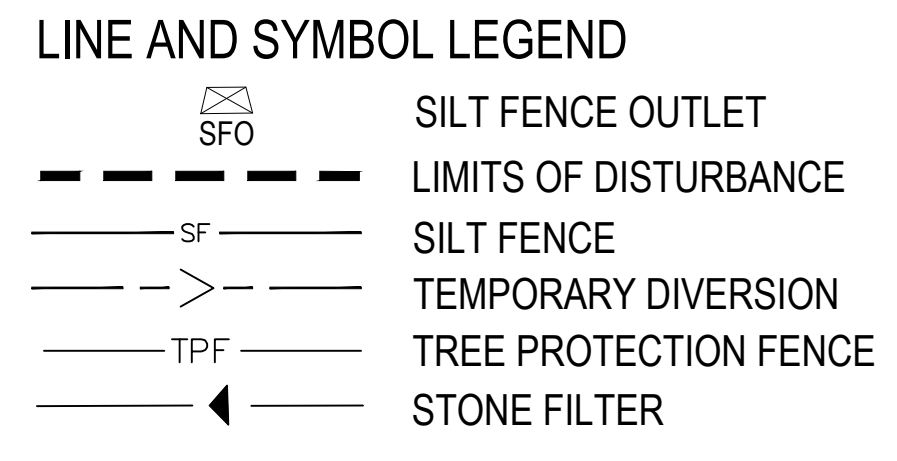
Okay

1.1	Area (Acres)
5.38	Peak Flow from 10-year Storm (cfs)
1980	Required Volume ft ³
2344	Required Surface Area ft ²
34.2	Suggested Width ft
68.5	Suggested Length ft
35	Trial Top Width at Spillway Invert ft
68	Trial Top Length at Spillway Invert ft
3	Trial Side Slope Ratio Z:1
2	Trial Depth ft (2 to 13 feet above gr.)
23	Bottom Width ft
56	Bottom Length ft
1288	Bottom Area ft ²
3620	Actual Volume ft ³
2380	Actual Surface Area ft ²
2	Skimmer Size (inches)
0.05	Head on Skimmer (feet)
1	Orifice Size (1/4 inch increments)
3.83	Dewatering Time (days)
	Suggest about 3 days

Temporary Sediment Trap 3

Okay

0.44	Area (Acres)
5.38	Peak Flow from 10-year Storm (cfs)
1584	Required Volume ft ³
2344	Required Surface Area ft ²
34.2	Suggested Width ft
68.5	Suggested Length ft
40	Trial Top Width at Spillway Invert ft
60	Trial Top Length at Spillway Invert ft
2	Trial Side Slope Ratio Z:1
2	Trial Depth ft (1.5 feet below grade + 2 to 3.5 feet above grade)
32	Bottom Width ft
52	Bottom Length ft
1664	Bottom Area ft ²
4043	Actual Volume ft ³
2400	Actual Surface Area ft ²
10	Trial Weir Length ft
0.5	Trial Depth of Flow ft
10.6	Spillway Capacity cfs



EROSION CONTROL CONSTRUCTION SEQUENCE - PAHSE 1

- SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL WATERSHED MANAGER. OBTAIN A LAND DISTURBING PERMIT.
- INSTALL TREE PROTECTION FENCE (TPF).
- INSTALL EROSION CONTROL MEASURES INCLUDING GRAVEL CONSTRUCTION ENTRANCE / EXIT, SEDIMENT TRAPPING MEASURES (BASINS 1, 2 AND 3), AND OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
- CONTACT THE WAKE COUNTY ENVIRONMENTAL CONSULTANT, KARYN PAGEAU (919) 796-8769, FOR AN ONSITE INSPECTION TO OBTAIN A CERTIFICATE OF COMPLIANCE.
- BEGIN CLEARING AND GRUBBING. PERFORM ROUGH GRADING, INSTALLING AND MAINTAINING TEMPORARY DIVERSIONS AS NECESSARY. SEED AND MULCH PERIMETER SLOPES AS SOON AS POSSIBLE.
- STABILIZE DISTURBED AREAS WITHIN 14 WORKING DAYS AFTER COMPLETION OF ANY PHASE OF GRADING. STABILIZATION CONSISTS OF EITHER TEMPORARY MULCHING OR PERMANENT VEGETATION ON AREAS THAT ARE NOT PAVED.
- REGULARLY INSPECT AND MAINTAIN THE EROSION CONTROL DEVICES SO THEY CONTINUE TO FUNCTION PROPERLY.
- KEEP MUD AND DEBRIS OFF THE PUBLIC STREETS AT ALL TIMES. IF MUD OR DEBRIS IS TRACKED FROM THE SITE, USE A SHOVEL AND BROOM TO REMOVE IT IMMEDIATELY. IF MUD AND DEBRIS ARE NOT KEPT OFF THE STREET, ENFORCEMENT ACTION (REVOKING THE GRADING PERMIT AND/OR STOP WORK ORDER) MAY BE TAKEN.
- IF IT IS DETERMINED DURING THE COURSE OF CONSTRUCTION THAT SIGNIFICANT SEDIMENT IS LEAVING THE SITE DESPITE PROPER IMPLEMENTATION AND MAINTENANCE OF THE APPROVED EROSION CONTROL PLAN, THE PERSON RESPONSIBLE FOR THE LAND-DISTURBING ACTIVITY IS OBLIGATED TO TAKE ADDITIONAL PROTECTIVE ACTION.
- CONTINUE TO PHASE 2 EROSION CONTROL ACTIVITIES.

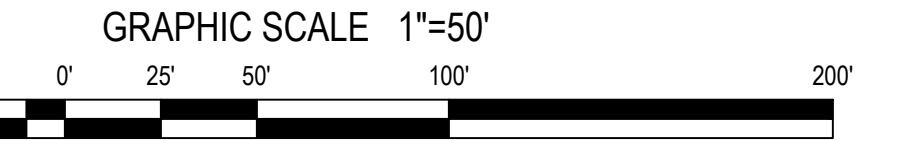
GENERAL NOTES:

- INSTALL POLYACRYLAMIDE IMPREGNATED STRAW WATTLES (ie: TERRA TUBES) DIRECTLY BELOW STORM WATER OUTFALL. PLACE EROSION CONTROL LINER UNDERNEATH A SERIES OF WATTLES (SEE DETAIL).
- SURROUND THE SKIMMER WITH A BAFFLE AND "KEY" BOTH ENDS INTO THE SIDE OF THE BASIN. INSTALL A TARP UNDERNEATH THE SKIMMER, COVERING THE ENTIRE AREA AROUND THE SKIMMER. PROVIDE A 6'-8" BLOCK TO PLACED UNDER THE SKIMMER ALLOWING THE DEVICE TO REST ON AFTER DEWATERING.
- INSTALL STANDARD GRAVEL YARD INLET PROTECTION UNTIL CURB IS INSTALLED. INSTALL STANDARD GRAVEL BAG CURB INLET PROTECTION AT ALL CURB INLETS.

REFERENCE DRAWINGS:

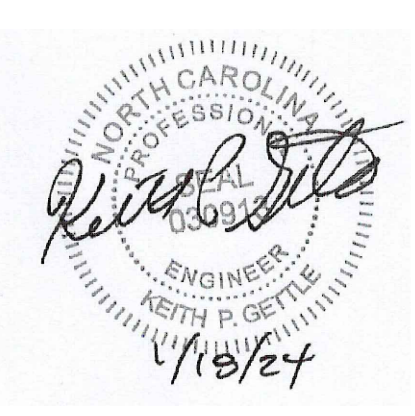
- SEE SHEETS C6 AND C7 FOR STORM DRAIN SCHEDULE.
- SEE SHEET C5 FOR SITE GRADING NOTES.

DENUDED AREA ON SITE = 258,310.80 SF (5.93 AC)
 DENUDED AREA ROW = 27,878.40 SF (.64 AC)
 DENUDED AREA TOTAL = 286,076 SF (6.57 AC)



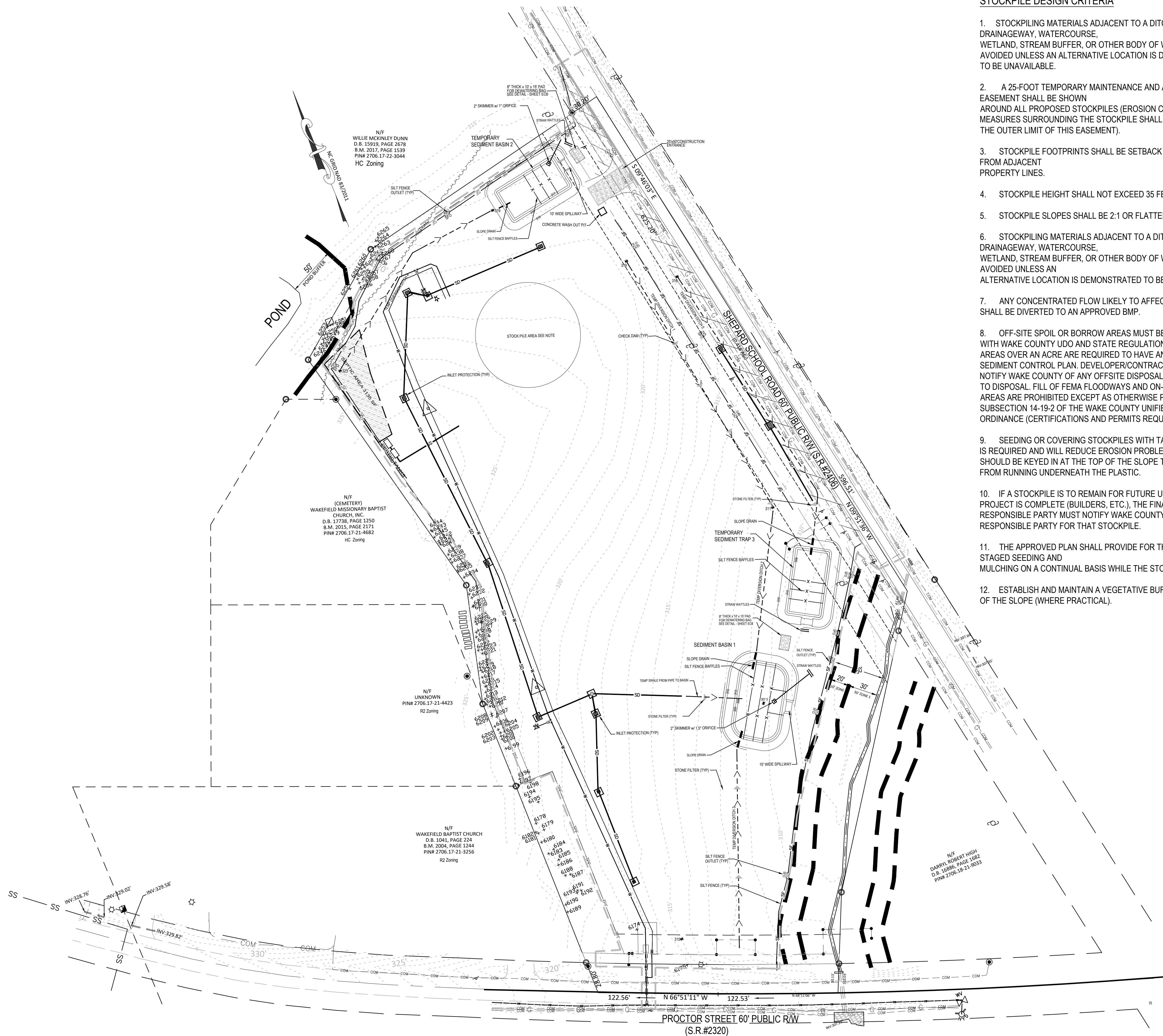
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6		DATE	COMMENT
8		Date	Comment



Phase 1 - Erosion Control Plan
StorageMax (1098359)
 901 Proctor Street
 Zebulon, Wake County, North Carolina

Project No. 23001
 Dwg No. **EC1**



STOCKPILE DESIGN CRITERIA

1. STOCKPILING MATERIALS ADJACENT TO A DITCH, DRAINAGEWAY, WATERCOURSE, WETLAND, STREAM BUFFER, OR OTHER BODY OF WATER SHALL BE AVOIDED UNLESS AN ALTERNATIVE LOCATION IS DEMONSTRATED TO BE UNAVAILABLE.
2. A 25-FOOT TEMPORARY MAINTENANCE AND ACCESS EASEMENT SHALL BE SHOWN AROUND ALL PROPOSED STOCKPILES (EROSION CONTROL MEASURES SURROUNDING THE STOCKPILE SHALL BE SHOWN AT THE OUTER LIMIT OF THIS EASEMENT).
3. STOCKPILE FOOTPRINTS SHALL BE SETBACK A MINIMUM OF 25' FROM ADJACENT PROPERTY LINES.
4. STOCKPILE HEIGHT SHALL NOT EXCEED 35 FEET.
5. STOCKPILE SLOPES SHALL BE 2:1 OR FLATTER.
6. STOCKPILING MATERIALS ADJACENT TO A DITCH, DRAINAGEWAY, WATERCOURSE, WETLAND, STREAM BUFFER, OR OTHER BODY OF WATER SHALL BE AVOIDED UNLESS AN ALTERNATIVE LOCATION IS DEMONSTRATED TO BE UNAVAILABLE.
7. ANY CONCENTRATED FLOW LIKELY TO AFFECT THE STOCKPILE SHALL BE DIVERTED TO AN APPROVED BMP.
8. OFF-SITE SPOIL OR BORROW AREAS MUST BE IN COMPLIANCE WITH WAKE COUNTY UDO AND STATE REGULATIONS. ALL SPOIL AREAS OVER AN ACRE ARE REQUIRED TO HAVE AN APPROVED SEDIMENT CONTROL PLAN. DEVELOPER/CONTRACTOR SHALL NOTIFY WAKE COUNTY OF ANY OFFSITE DISPOSAL OF SOIL, PRIOR TO DISPOSAL. FILL OF FEMA FLOODWAYS AND ON-ENCROACHMENT AREAS ARE PROHIBITED EXCEPT AS OTHERWISE PROVIDED BY SUBSECTION 14-19-2 OF THE WAKE COUNTY UNIFIED DEVELOPMENT ORDINANCE (CERTIFICATIONS AND PERMITS REQUIRED).
9. SEEDING OR COVERING STOCKPILES WITH TARPS OR MULCH IS REQUIRED AND WILL REDUCE EROSION PROBLEMS. TARPS SHOULD BE KEPT IN AT THE TOP OF THE SLOPE TO KEEP WATER FROM RUNNING UNDERNEATH THE PLASTIC.
10. IF A STOCKPILE IS TO REMAIN FOR FUTURE USE AFTER THE PROJECT IS COMPLETE (BUILDERS, ETC.), THE FINANCIAL RESPONSIBLE PARTY MUST NOTIFY WAKE COUNTY OF A NEW RESPONSIBLE PARTY FOR THAT STOCKPILE.
11. THE APPROVED PLAN SHALL PROVIDE FOR THE USE OF STAGED SEEDING AND MULCHING ON A CONTINUAL BASIS WHILE THE STOCKPILE IS IN USE.
12. ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL).

EROSION CONTROL CONSTRUCTION SEQUENCE - PHASE 2

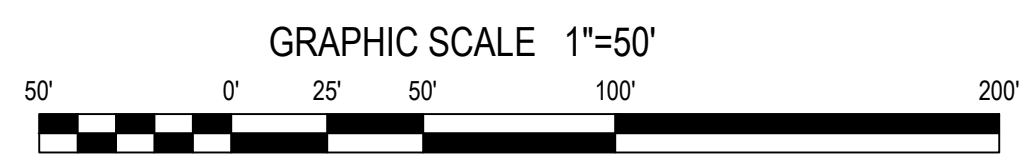
1. INSTALL THE STORM DRAINAGE SYSTEM AND INLET PROTECTION, PROTECTING PIPE OPENINGS AND UNCOVERED STRUCTURES AS SHOWN.
2. INSTALL SANITARY SEWER SYSTEM SEPTIC FIELD / TANKS AND WATER LINE PIPING PER UTILITY PLAN. ENSURE EXISTING UTILITIES ARE PROTECTED DURING CONSTRUCTION ACTIVITIES.
3. BEGIN ROADWORK IN SHEPARD SCHOOL ROAD. CONTACT NCDOT FOR INSPECTIONS AS REQUIRED.
4. STABILIZE DISTURBED AREAS WITHIN 14 WORKING DAYS AFTER COMPLETION OF ANY PHASE OF GRADING. STABILIZATION CONSISTS OF EITHER TEMPORARY MULCHING OR PERMANENT VEGETATION ON AREAS THAT ARE NOT PAVED.
5. REGULARLY INSPECT AND MAINTAIN THE EROSION CONTROL DEVICES SO THEY CONTINUE TO FUNCTION PROPERLY.
6. KEEP MUD AND DEBRIS OFF THE PUBLIC STREETS AT ALL TIMES. IF MUD OR DEBRIS IS TRACKED FROM THE SITE, USE A SHOVEL AND BROOM TO REMOVE IT IMMEDIATELY. IF MUD AND DEBRIS ARE NOT KEPT OFF THE STREET, ENFORCEMENT ACTION (REVOKING THE GRADING PERMIT AND/OR STOP WORK ORDER) MAY BE TAKEN.
7. IF IT IS DETERMINED DURING THE COURSE OF CONSTRUCTION THAT SIGNIFICANT SEDIMENT IS LEAVING THE SITE DESPITE PROPER IMPLEMENTATION AND MAINTENANCE OF THE APPROVED EROSION CONTROL PLAN, THE PERSON RESPONSIBLE FOR THE LAND DISTURBING ACTIVITY IS OBLIGATED TO TAKE ADDITIONAL PROTECTIVE ACTION.
8. CONTINUE TO PHASE 3 ACTIVITIES.

LINE AND SYMBOL LEGEND

- SFO SILT FENCE OUTLET
- LIMITS OF DISTURBANCE
- SF SILT FENCE
- TEMPORARY DIVERSION
- TPF TREE PROTECTION FENCE
- STONE FILTER

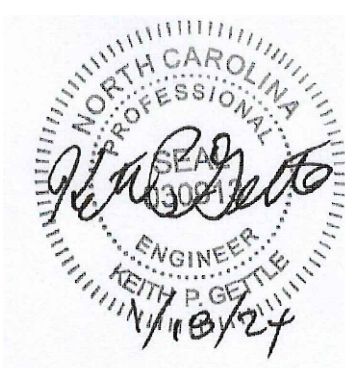
REFERENCE DRAWINGS:

1. SEE SHEETS C6 AND C7 FOR STORM DRAIN SCHEDULE.
2. SEE SHEET C5 FOR DETAILED SITE GRADING NOTES.
3. SEE SHEETS C8, C9 AND C10 FOR THE UTILITY PLAN.



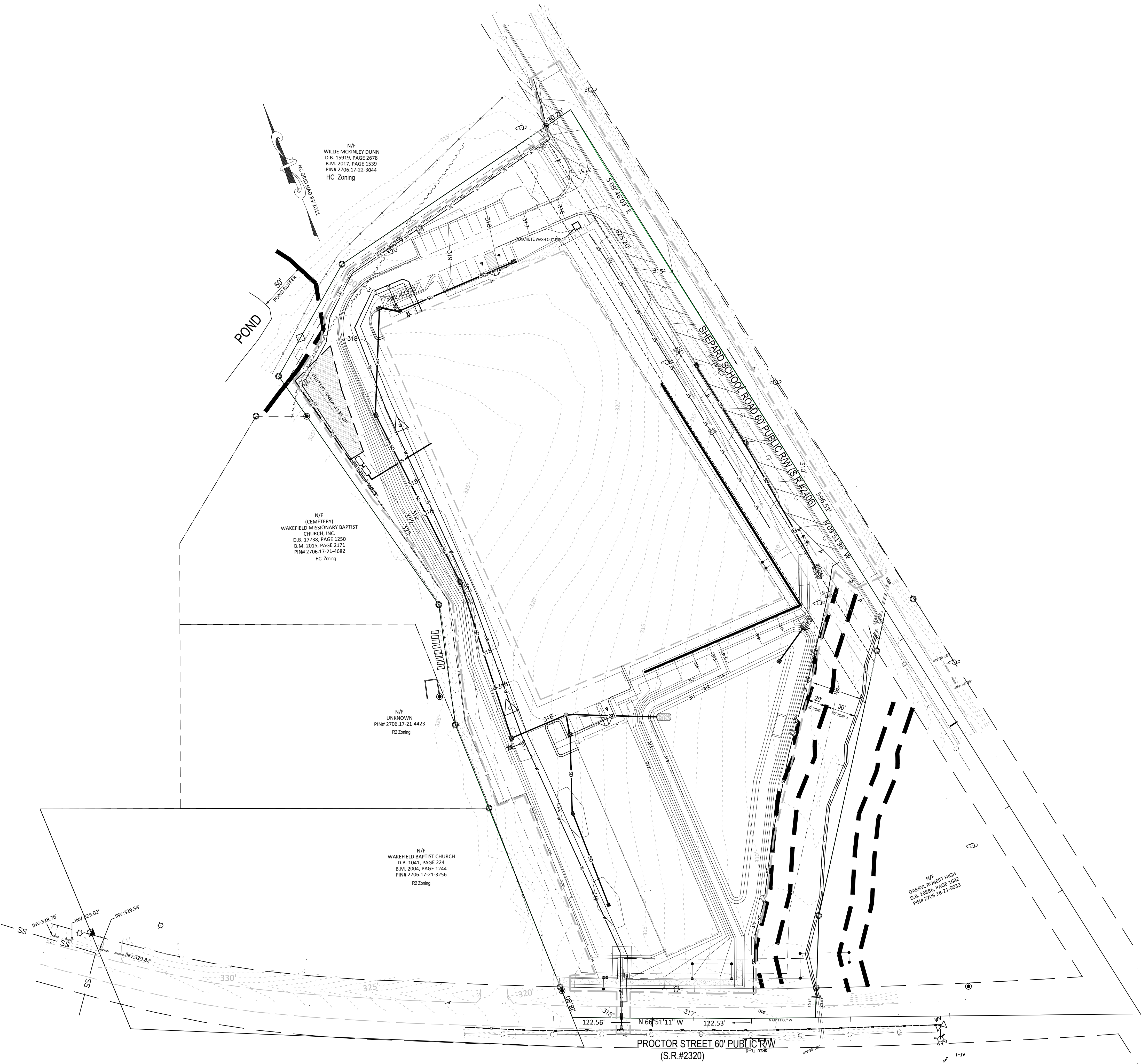
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Phase 2 - Erosion Control Plan
StorageMax (1098359)
 901 Proctor Street
 Zebulon, Wake County, North Carolina

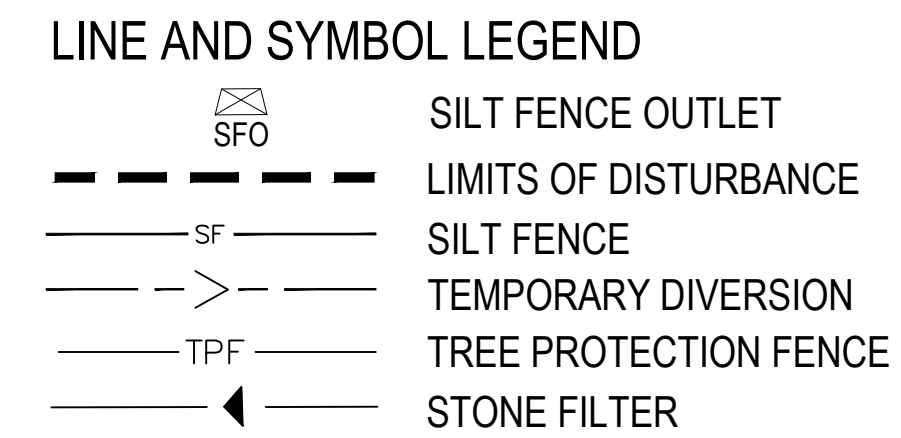
Project No. 23001
 Dwg No. **EC2**



- CONSTRUCTION SEQUENCE - PHASE 3
1. CONSTRUCT CONCRETE CURB IN ROADWAYS AND PARKING LOT. PLACE AND COMPACT STONE IN THE ROADWAYS AND PARKING LOT. REMOVE THE GRAVEL ENTRANCE.
 2. INSTALL SILT BAGS AT CURB AND DROP INLETS.
 3. COMPLETE FINE GRADING AND STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE.
 4. ONCE THE SITE IS STABILIZED AND APPROVAL FROM STORMWATER INSPECTIONS TO SCHEDULE THE REMOVAL OF THE SEDIMENT BASINS (SEE NOTES BELOW), DEWATER SEDIMENT BASIN USING A SILT BAG AND MUCK OUT REMAINING SEDIMENT.
 5. BEGIN INSTALLATION OF THE BMP, RISER AND DISCHARGE PIPE TO INCLUDE RIPRAP APRON. CONTACT PROJECT ENGINEER TO INSPECT DURING INSTALLATION PROCESS. SURVEY INVERT ELEVATIONS FOR AS-BUILT INFORMATION REQUIRED BY THE TOWN OF ZEBULON AND WAKE COUNTY.
 6. GRADE ANY REMAINING AREAS TO FINAL GRADE. UPON COMPLETION THE GROUND COVER SHALL BE PROVIDED AS FOLLOWS:
 - A. STABILIZE BASINS WITH GROUND COVER IMMEDIATELY AFTER INSTALLATION.
 - B. STABILIZE DIVERSION DITCHES INTENDED TO BE IN SERVICE FOR 30 DAYS OR MORE WITH TEMPORARY SEEDING AND EROSION CONTROL NETTINGS.
 - C. FOR ALL AREAS OF MODERATE AND/OR STEEP SLOPES, PROVIDE TEMPORARY GROUND COVER IF THE SLOPE HAS NOT BEEN DISTURBED FOR A PERIOD OF FOURTEEN (14) DAYS.
 - D. PROVIDE GROUND COVER SUFFICIENT TO RESTRAIN EROSION ON ANY PORTION OF THE SITE UPON WHICH FURTHER LAND-DISTURBING ACTIVITY IS NOT BEING UNDERTAKEN WITHIN FOURTEEN (14) CALENDAR DAYS OF TEMPORARILY OR PERMANENTLY SUSPENDING LAND DISTURBING ACTIVITY.
 - E. ESTABLISH PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION WITHIN FOURTEEN (14) CALENDAR DAYS FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT AND/OR PRIOR TO FINAL INSPECTION.
 7. ONCE THE BMP INSTALLATION IS COMPLETE, TEMPORARY MEASURES ARE REMOVED, THE SITE IS STABILIZED, CONTACT THE WAKE COUNTY ENVIRONMENTAL CONSULTANT, KARYN PAGEAU AT (919) 796-8769, TO SCHEDULE A STORMWATER INSPECTION.

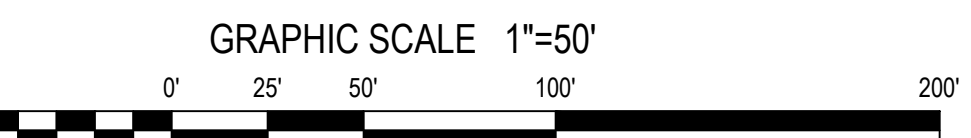
REQUIRED WAKE COUNTY BASIN REMOVAL SEQUENCE

1. SCHEDULE A SITE MEETING WITH THE WAKE COUNTY ENVIRONMENTAL, KARYN PAGEAU AT (919) 796-8769, TO DETERMINE IF A BASIN CAN BE REMOVED. INSTALL SILT FENCING OR OTHER TEMPORARY EROSION CONTROL MEASURES AS NEEDED PRIOR TO REMOVAL OF THE BASIN.
2. CONTACT NCDEQ - RALEIGH REGIONAL OFFICE (919) 791-4200 TO DETERMINE THE DIVISION OF ENERGY, MINERAL AND LAND RESOURCES CONTACT PERSON TO RECEIVE DEWATERING NOTIFICATIONS. AT LEAST 10 DAYS PRIOR TO BEGINNING DEWATERING ACTIVITY, SEND EMAIL TO NCDEQ-DEMLR CONTACT PERSON AND COPY ENVIRONMENTAL CONSULTANT THAT MET YOU ONSITE. THE EMAIL SHOULD INCLUDE: E&SC JURISDICTION; WAKE COUNTY, WAKE COUNTY PROJECT; NAME, NUMBER, AND LOCATION (CITY/TOWN), ENVIRONMENTAL CONSULTANT NAME, AND ADDRESS THE FOLLOWING: A)REASON FOR CONVERSION, B)BASIN #, C)DEWATERING METHOD, AND D) ALL OTHER NECESSARY INFO FROM PART II, SECTION G, ITEM 4 OF THE NCG01. (KEEP EMAIL FOR YOUR NPDES MONITORING DOCUMENTATION)
3. AFTER RECEIVING POSITIVE CONFIRMATION FROM NCDEQ-DEMLR THAT YOU MAY REMOVE THE BASIN OR ON > DAY 11, WHICHEVER IS SOONER, REMOVE BASIN(S) AND ASSOCIATED TEMPORARY DIVERSION DITCHES. IF PIPES NEED TO BE EXTENDED, PERFORM THIS OPERATION AT THIS TIME. FINE GRADE AREA IN PREPARATION FOR SEEDING.
4. PERFORM SEEDBED PREPARATION, SEED, MULCH AND ANCHOR ANY RESULTING BARE AREAS IMMEDIATELY.
5. INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
6. WHEN SITE IS FULLY STABILIZED, CALL WAKE COUNTY ENVIRONMENTAL CONSULTANT, JEEVAN NEUPANE AT (919) 819-8907, FOR APPROVAL OF REMOVING REMAINING TEMPORARY EROSION CONTROL MEASURES AND ADVICE ON WHEN SITE CAN BE ISSUED A CERTIFICATE OF COMPLETION. NOTE: A MEETING SHOULD ALSO BE SCHEDULED WITH THE ENVIRONMENTAL CONSULTANT TO DETERMINE WHEN A BASIN MAY BE CONVERTED FOR STORMWATER USE.



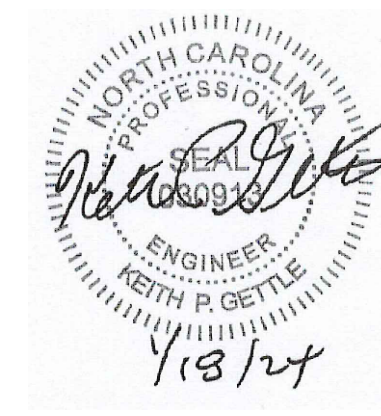
REFERENCE DRAWINGS:

1. SEE SHEET C6 AND C7 FOR STORM DRAIN SCHEDULE.
2. SEE SHEET C5 FOR DETAILED SITE GRADING NOTES.
3. SEE SHHETS C8, C9 AND C10 FOR THE UTILITY PLAN.
4. SEE SHEET D3 FOR BMP DETAILS.



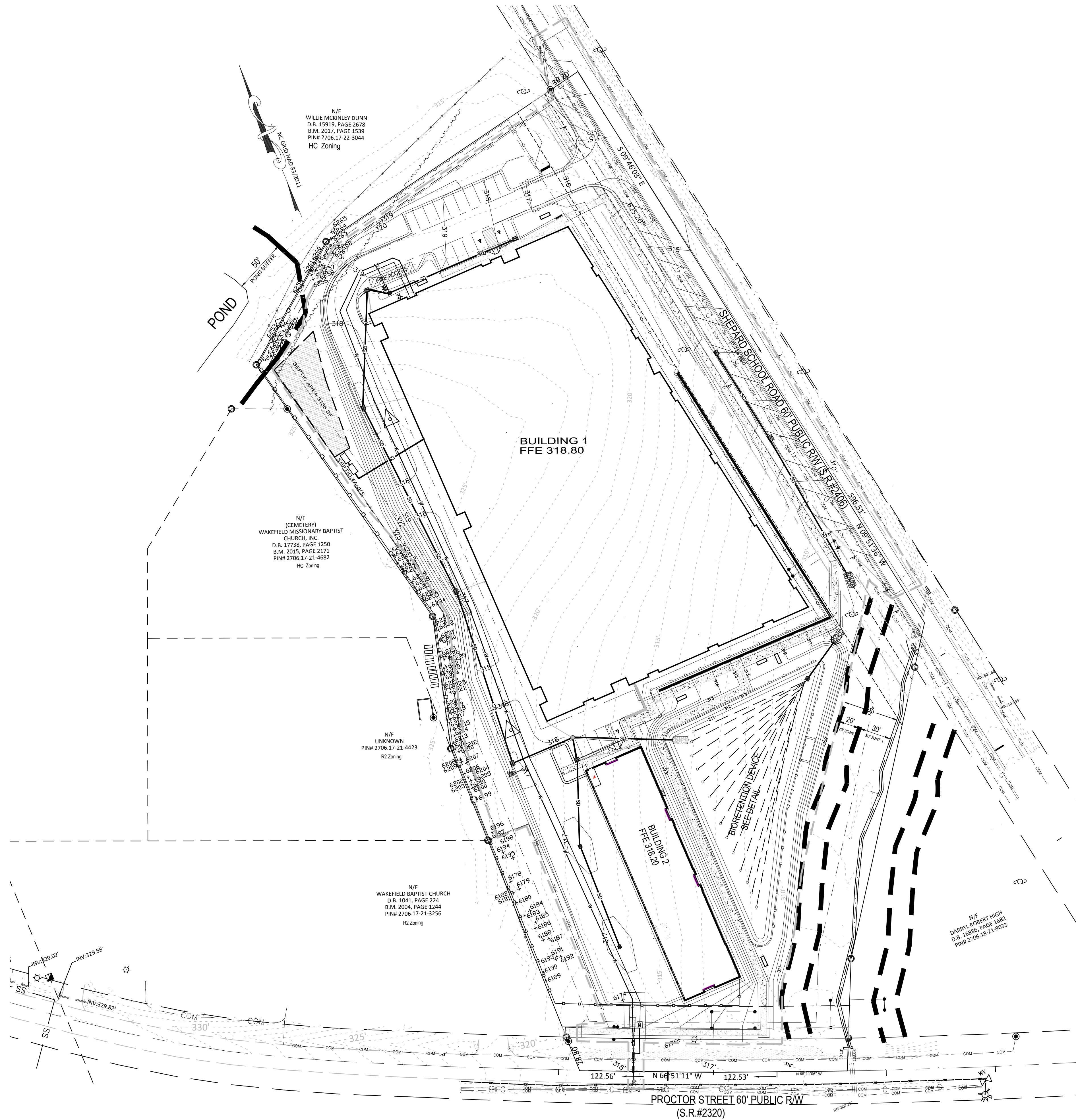
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 3616 Waxwing Court,
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Phase 3 - Erosion Control Plan
StorageMax (1098359)
 901 Proctor Street
 Zebulon, Wake County, North Carolina

Project No. 23001
 Dwg No. **EC3**



CONSTRUCTION SEQUENCE - PHASE 4

1. ENSURE THE SITE IS COMPLIANT WITH THE NCG01 SELF INSPECTION AND GROUND STABILIZATION AND MATERIAL HANDLING.
2. FOR ALL AREAS OF MODERATE AND / OR STEEP SLOPES, PROVIDE TEMPORARY GROUND COVER IF THE SLOPE HAS NOT BEEN DISTURBED FOR A PERIOD OF FOURTEEN (14) DAYS.
3. PROVIDE GROUND COVER SUFFICIENT TO RESTRAIN EROSION ON ANY PORTION OF THE SITE UPON WHICH FURTHER LAND-DISTURBING ACTIVITY IS NOT BEING UNDERTAKEN WITHIN FOURTEEN (14) CALENDAR DAYS OF TEMPORARILY OR PERMANENTLY SUSPENDING LAND DISTURBING ACTIVITY.
4. REMOVE SILT FENCE AND TREE PROTECTION FENCING WHEN GRADING ACTIVITIES ARE COMPLETE AND THE PROJECT SITE IS STABILIZED.
5. ONCE THE BMP INSTALLATION IS COMPLETE, TEMPORARY MEASURES ARE REMOVED, THE SITE IS STABILIZED, CONTACT THE WAKE COUNTY ENVIRONMENTAL CONSULTANT KARYN PAGEAU AT (919) 796-8769 TO SCHEDULE A STORMWATER FINAL INSPECTION. BMP CERTIFICATIONS AND AS-BUILT PLANS MUST BE PROVIDED TO WAKE COUNTY / TOWN OF ZEBULON PRIOR TO FINAL PLATTING.
6. ONCE THE STORMWATER FINAL INSPECTION IS APPROVED, CLOSE THE GRADING PERMIT AND OBTAIN A CERTIFICATE OF COMPLETION.

NPDES NOTES

1. THIS PAGE IS SUBMITTED TO COMPLY WITH NPDES GENERAL STORMWATER PERMIT NCG010000.
2. THIS PAGE CAN BE APPROVED BY THE CITY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG010000 ONLY.
3. THIS PAGE OF THE APPROVED PLANS IS ENFORCEABLE EXCLUSIVELY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG010000.
4. THE CITY / COUNTY IS NOT AUTHORIZED TO ENFORCE THIS PAGE OF THE PLANS AND IT IS NOT A PART OF THE APPROVED PLANS FOR PURPOSES OF ENFORCEMENT ACTION UNDER THE CITY / COUNTY CODE.
5. DOCUMENTATION REQUIRED UNDER THE SITE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY SHALL BE SUBMITTED TO WAKE COUNTY.

NPDES GROUND STABILIZATION SCHEDULE

SITE AREA DESCRIPTION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTIONS	APPLICABLE AREA ON THIS SITE
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED	NONE
SLOPES 3:1 OR FLATTER	14 DAYS	7-DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH	AS SHOWN
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERIMETERS AND HQW ZONES)	REMAINDER OF SITE

LINE AND SYMBOL LEGEND

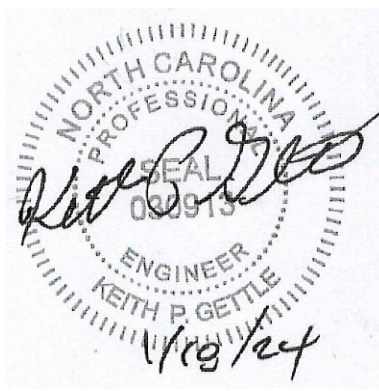
- SILT FENCE OUTLET
- LIMITS OF DISTURBANCE
- SILT FENCE
- TEMPORARY DIVERSION
- TREE PROTECTION FENCE
- STONE FILTER

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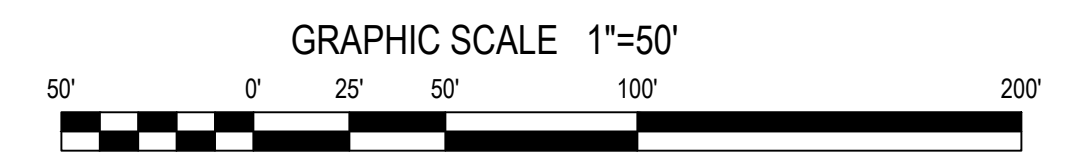
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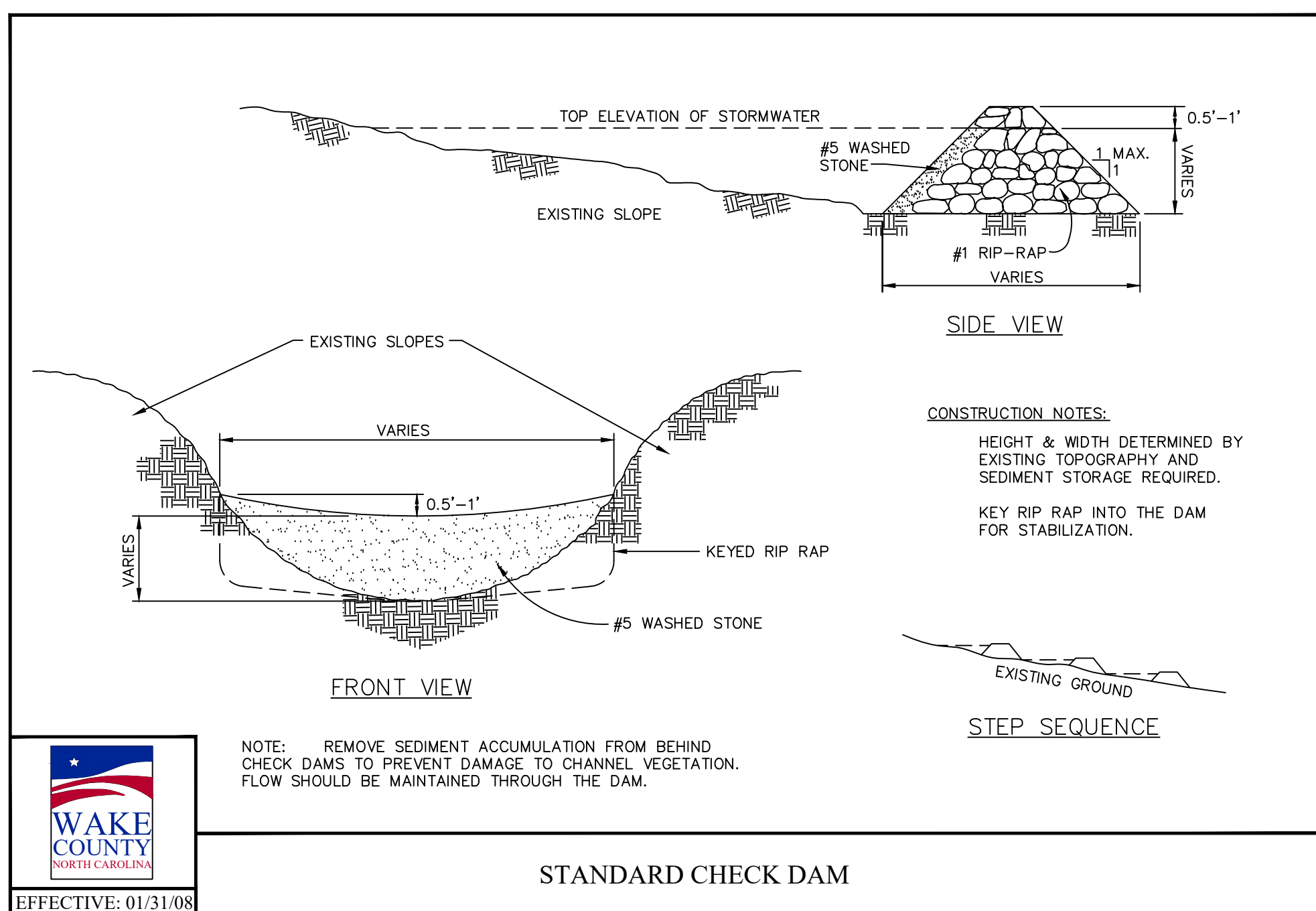
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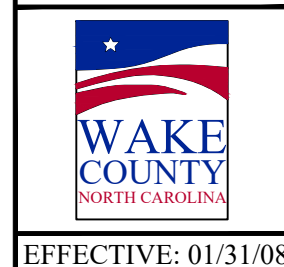
Phase 4 - Erosion Control Plan
 StorageMax (1098359)
 901 Proctor Street
 Zebulon, Wake County, North Carolina

Project No. 23001
 Dwg No. **EC4**

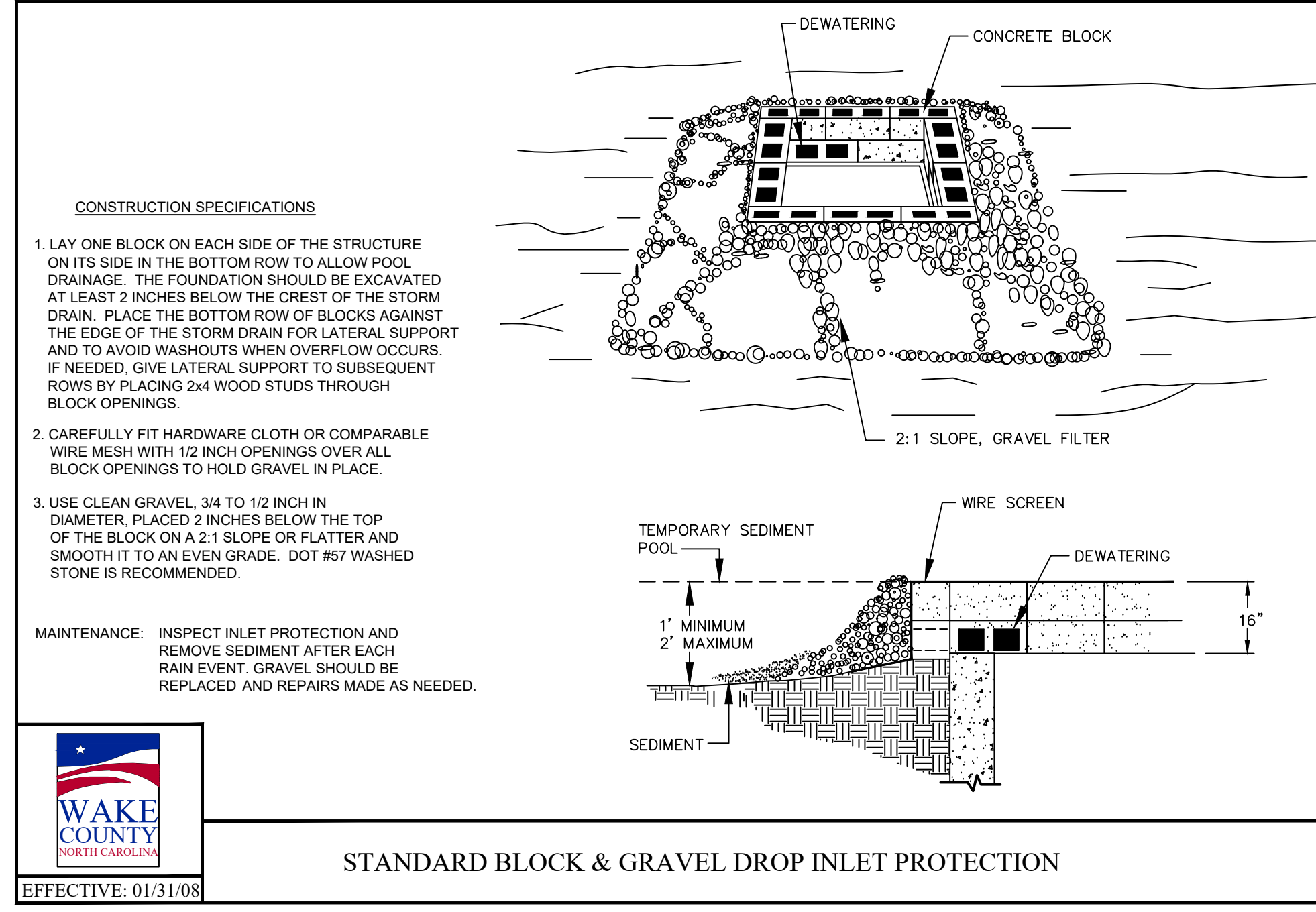




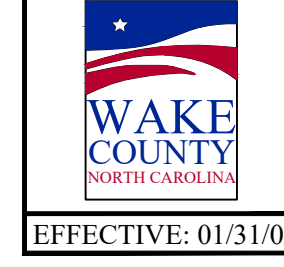
STANDARD CHECK DAM



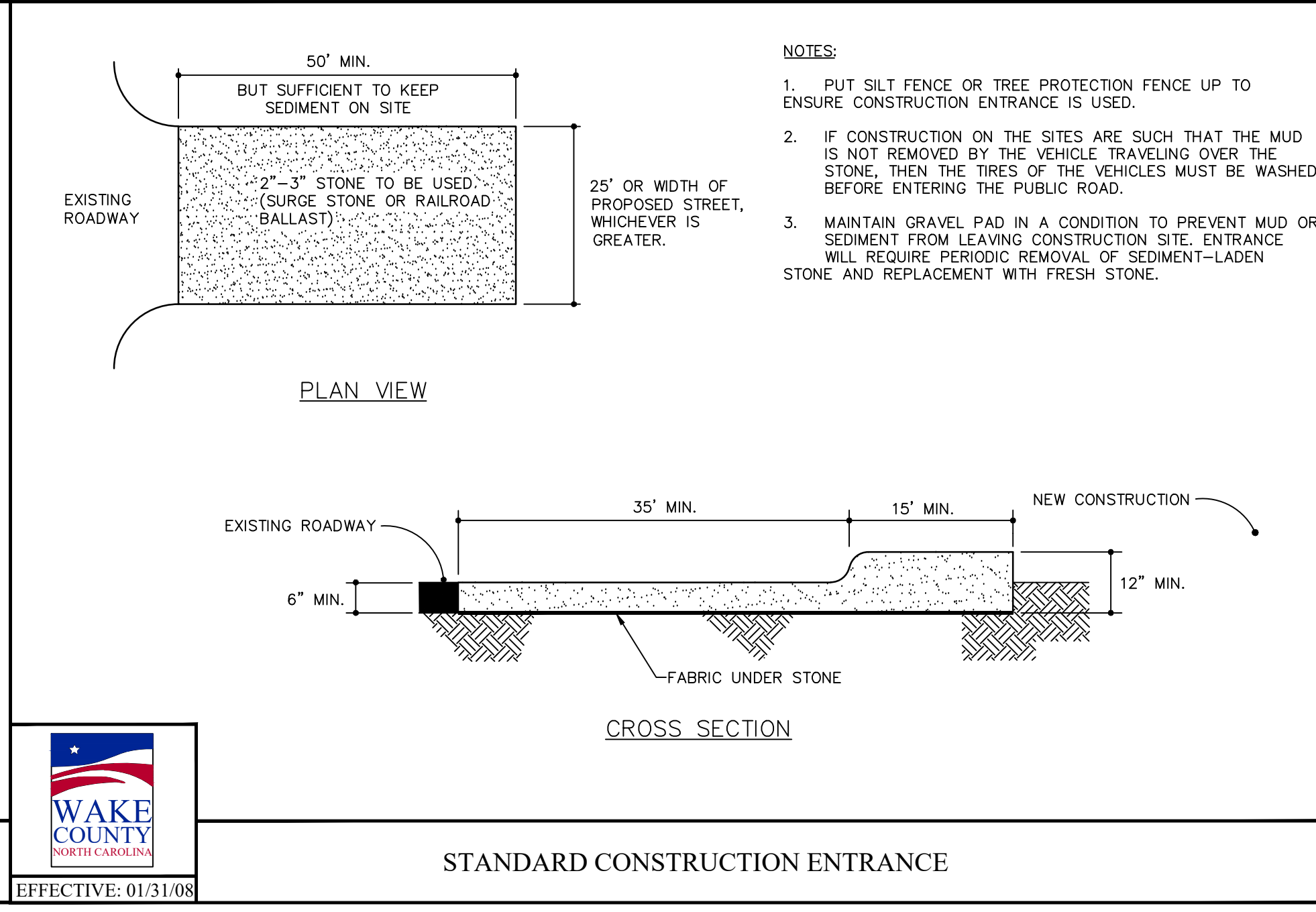
EFFECTIVE: 01/31/08



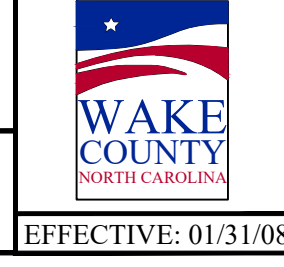
STANDARD BLOCK & GRAVEL DROP INLET PROTECTION



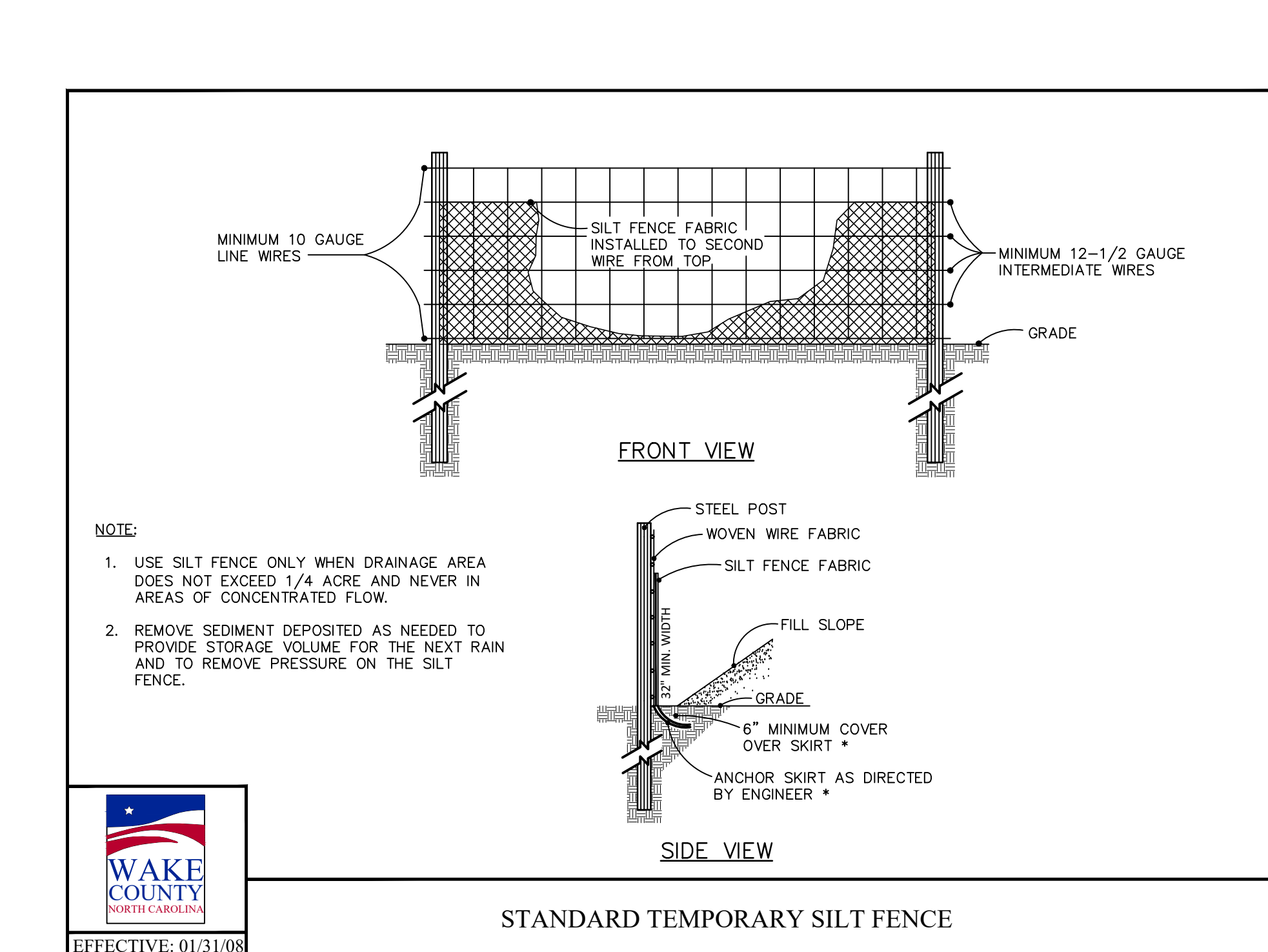
EFFECTIVE: 01/31/08



STANDARD CONSTRUCTION ENTRANCE



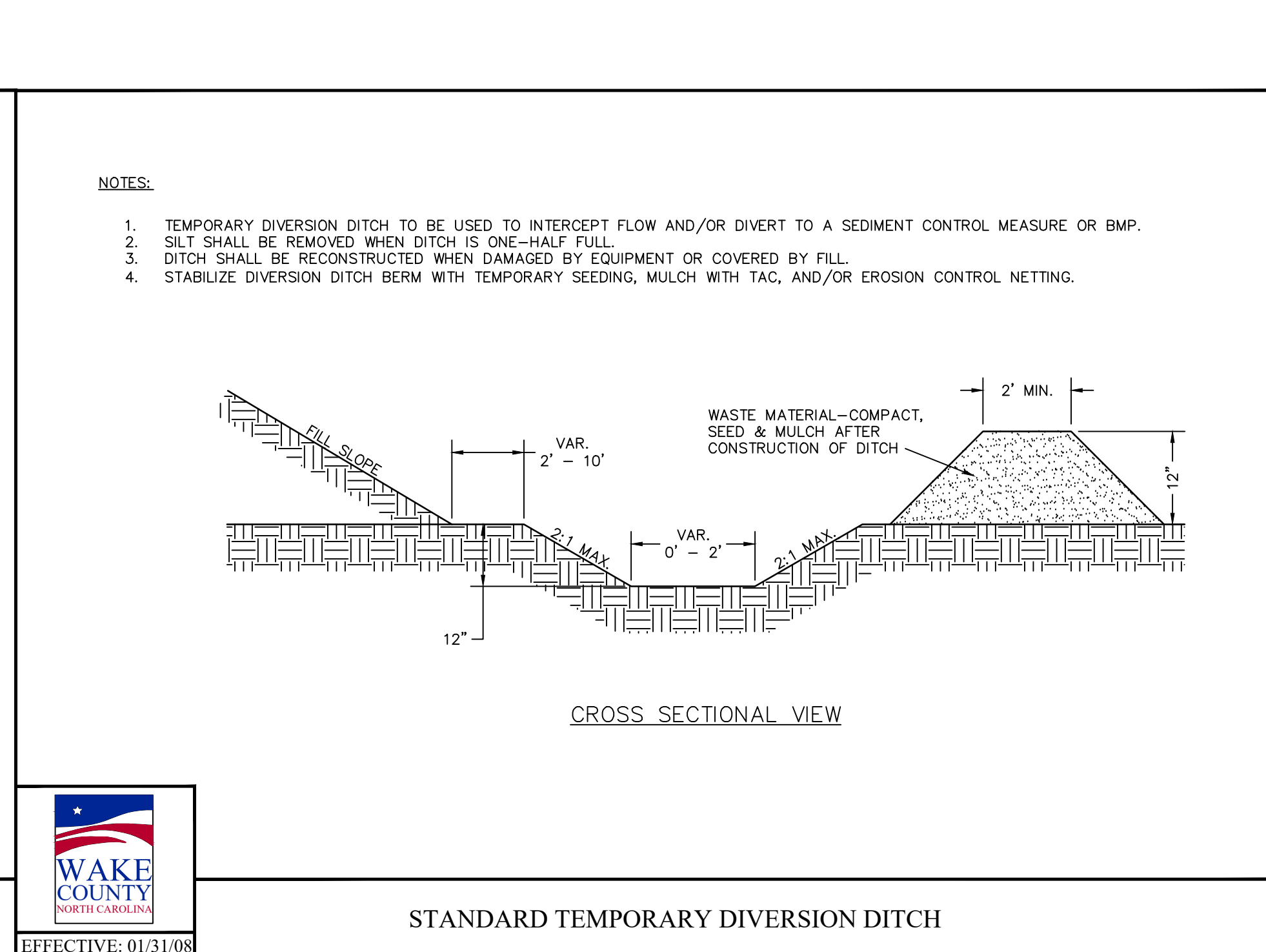
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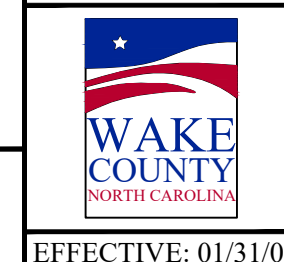
STANDARD TEMPORARY SILT FENCE



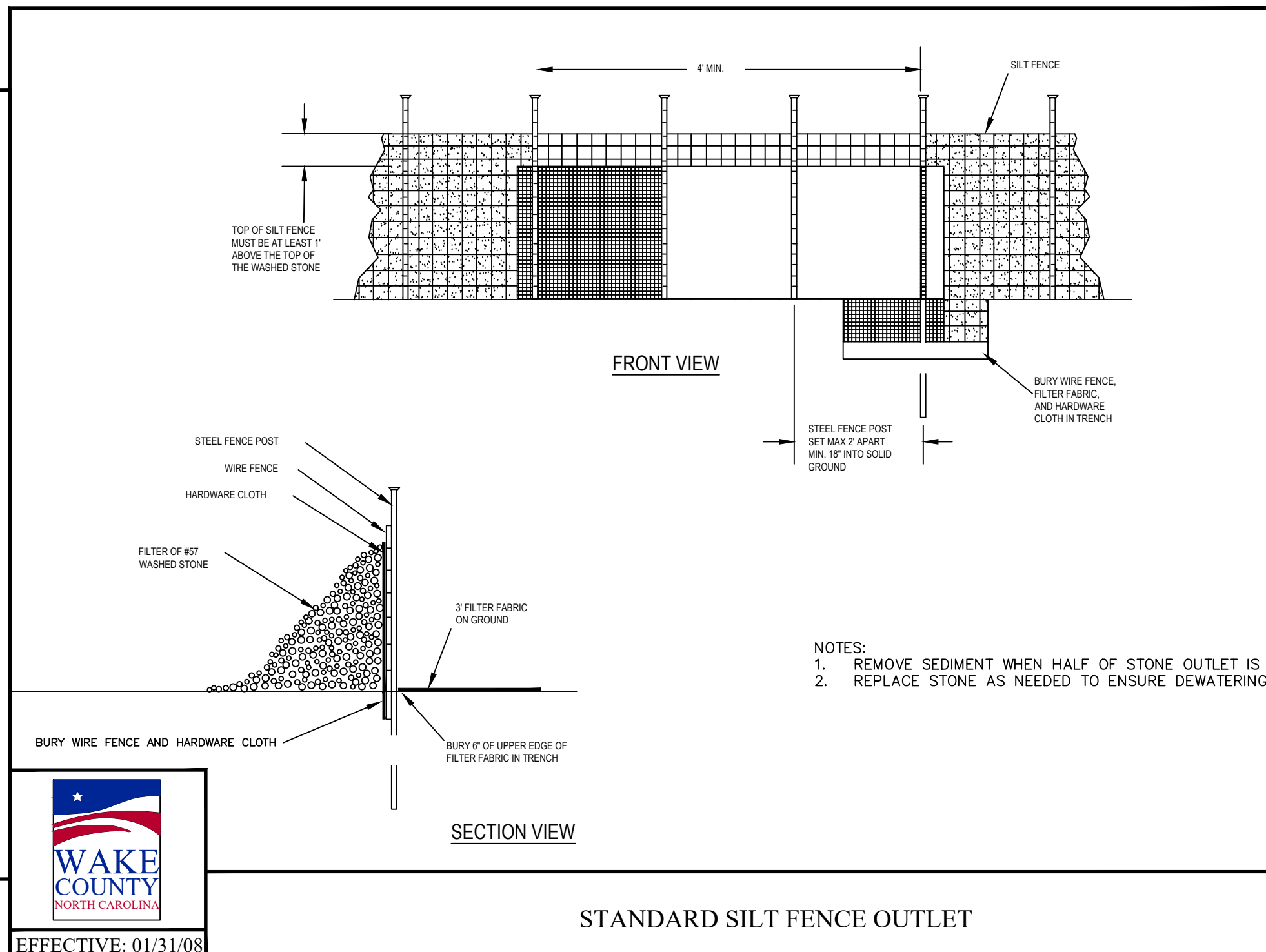
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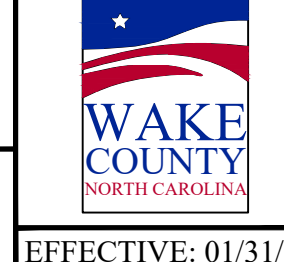
STANDARD TEMPORARY DIVERSION DITCH



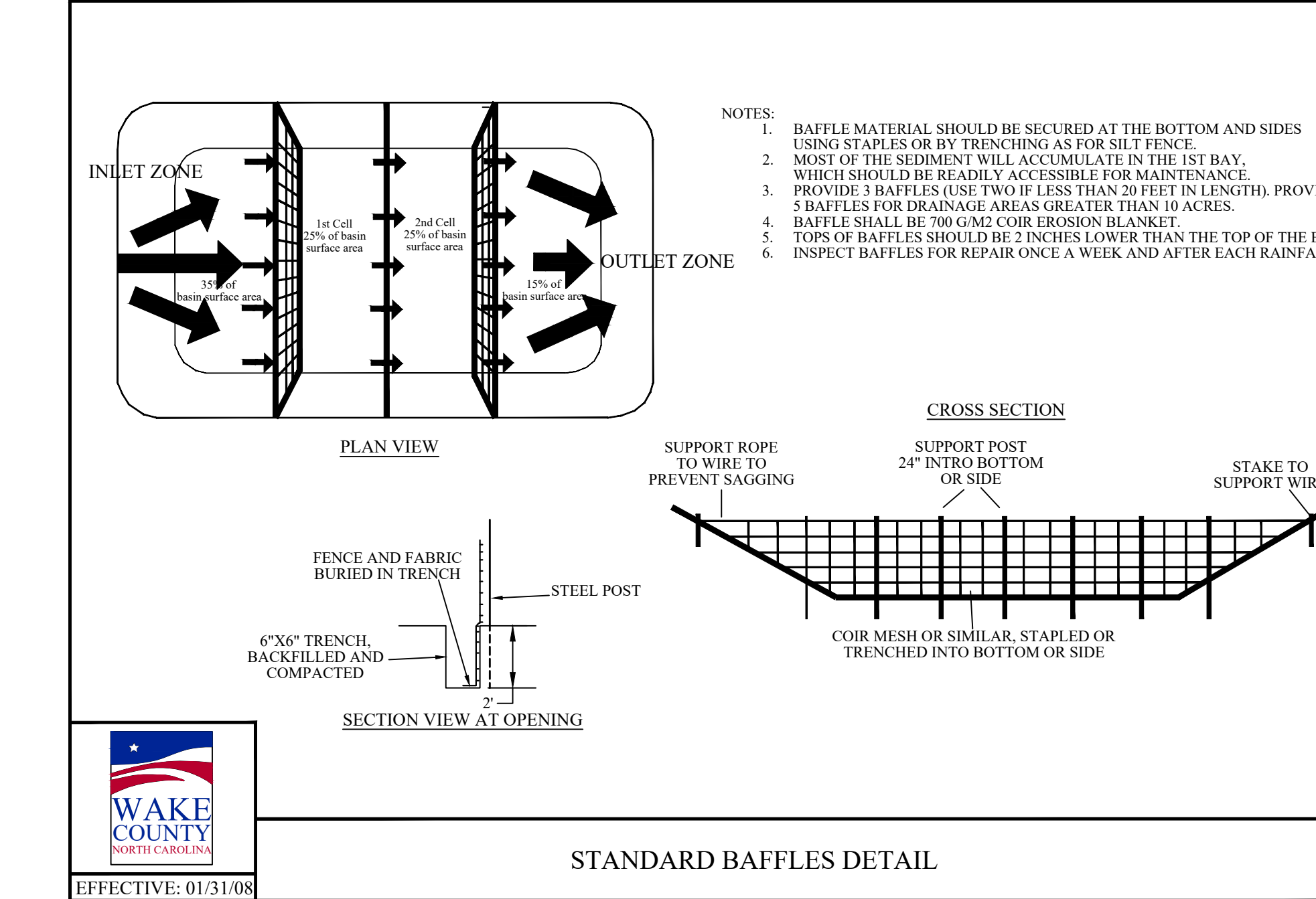
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STANDARD SILT FENCE OUTLET



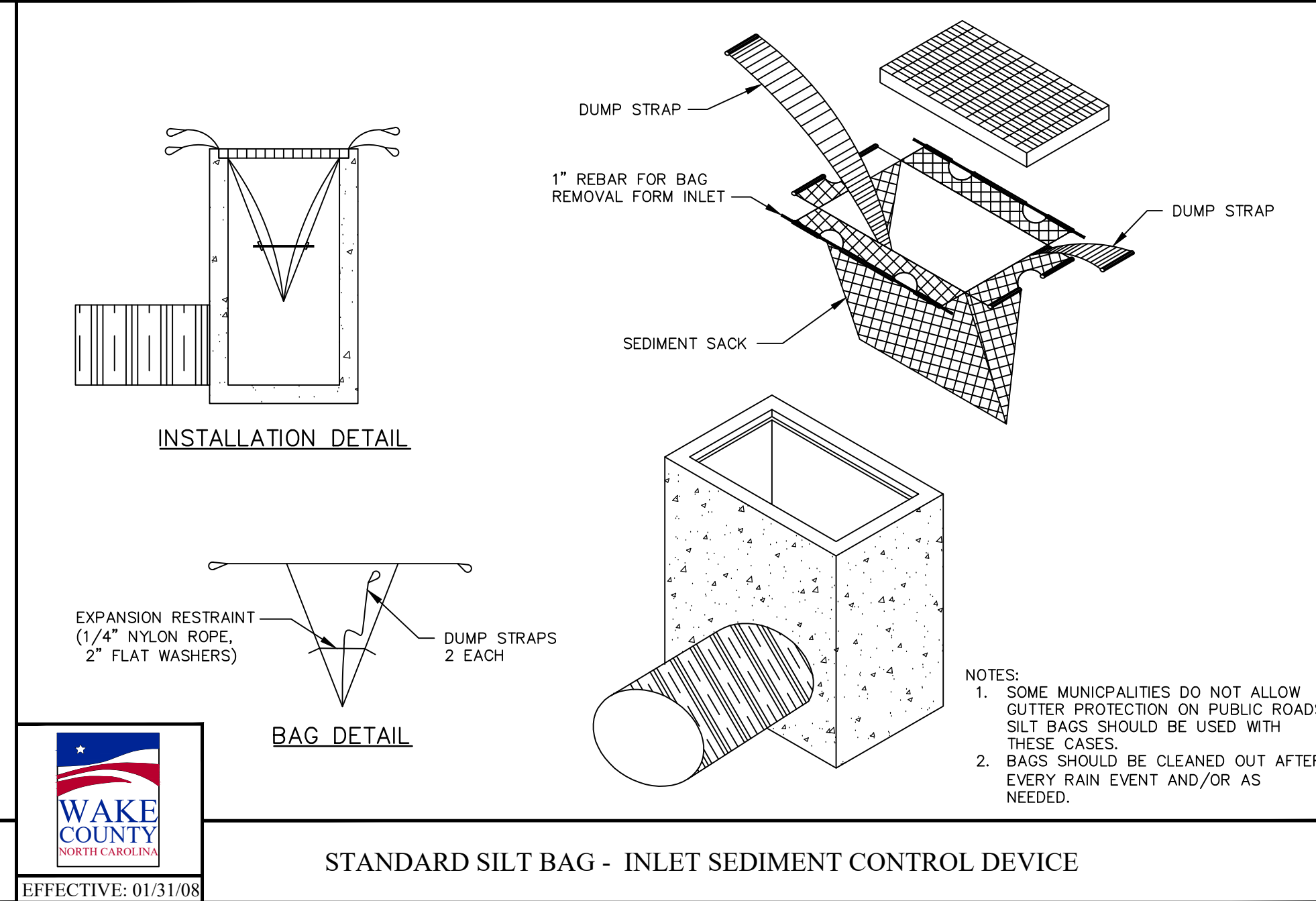
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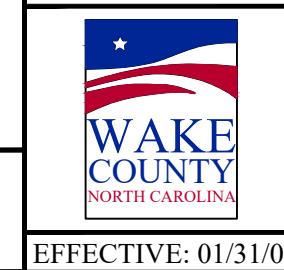
STANDARD BAFFLES DETAIL



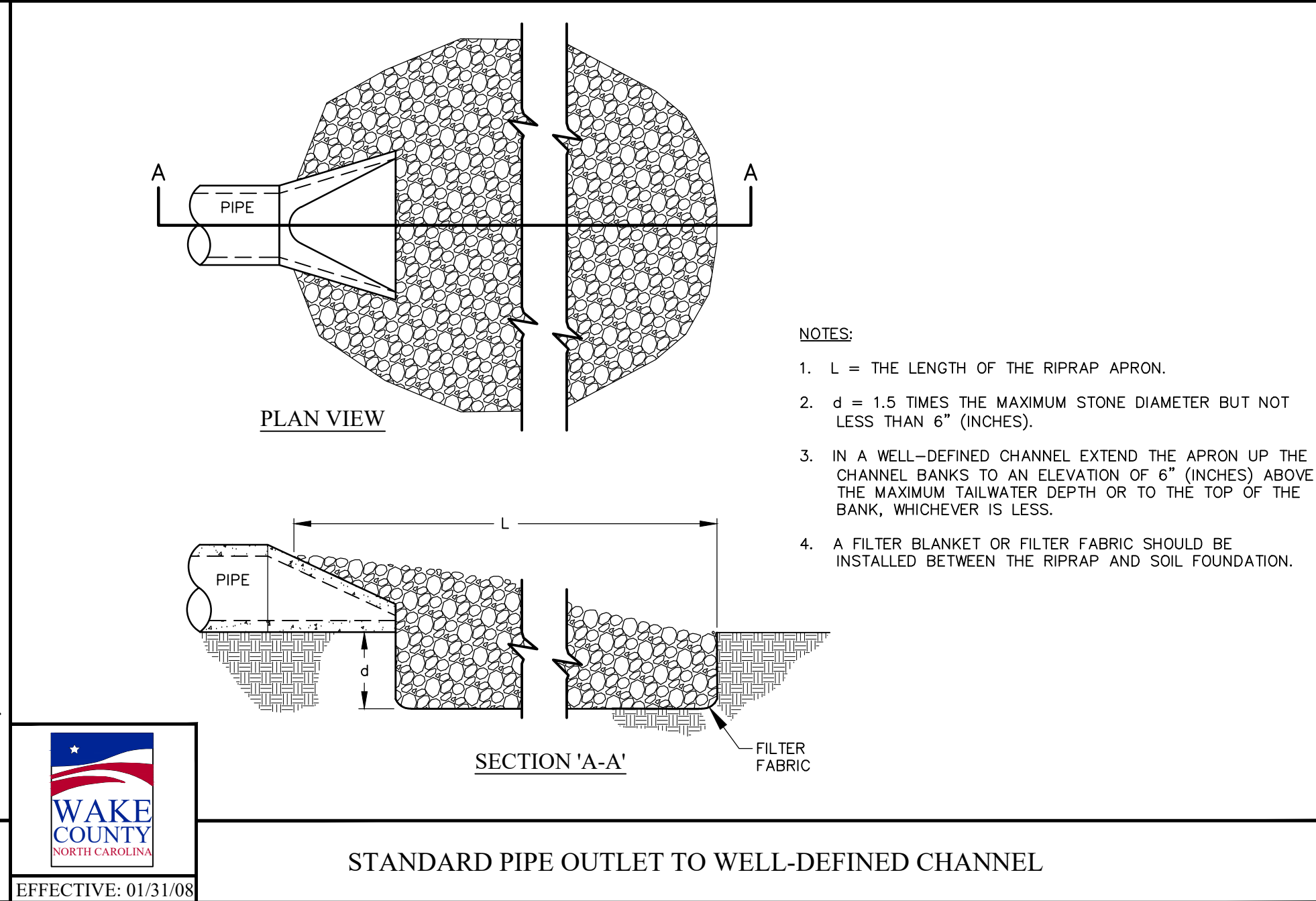
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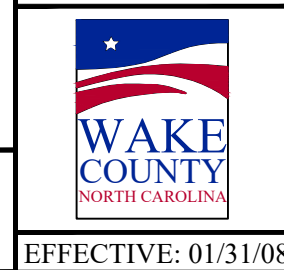
STANDARD SILT BAG - INLET SEDIMENT CONTROL DEVICE



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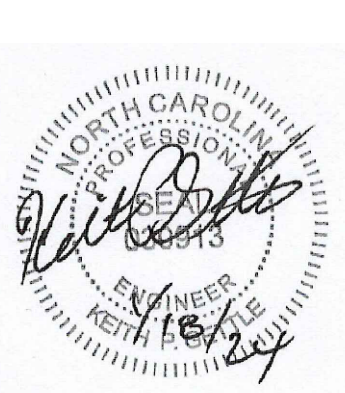


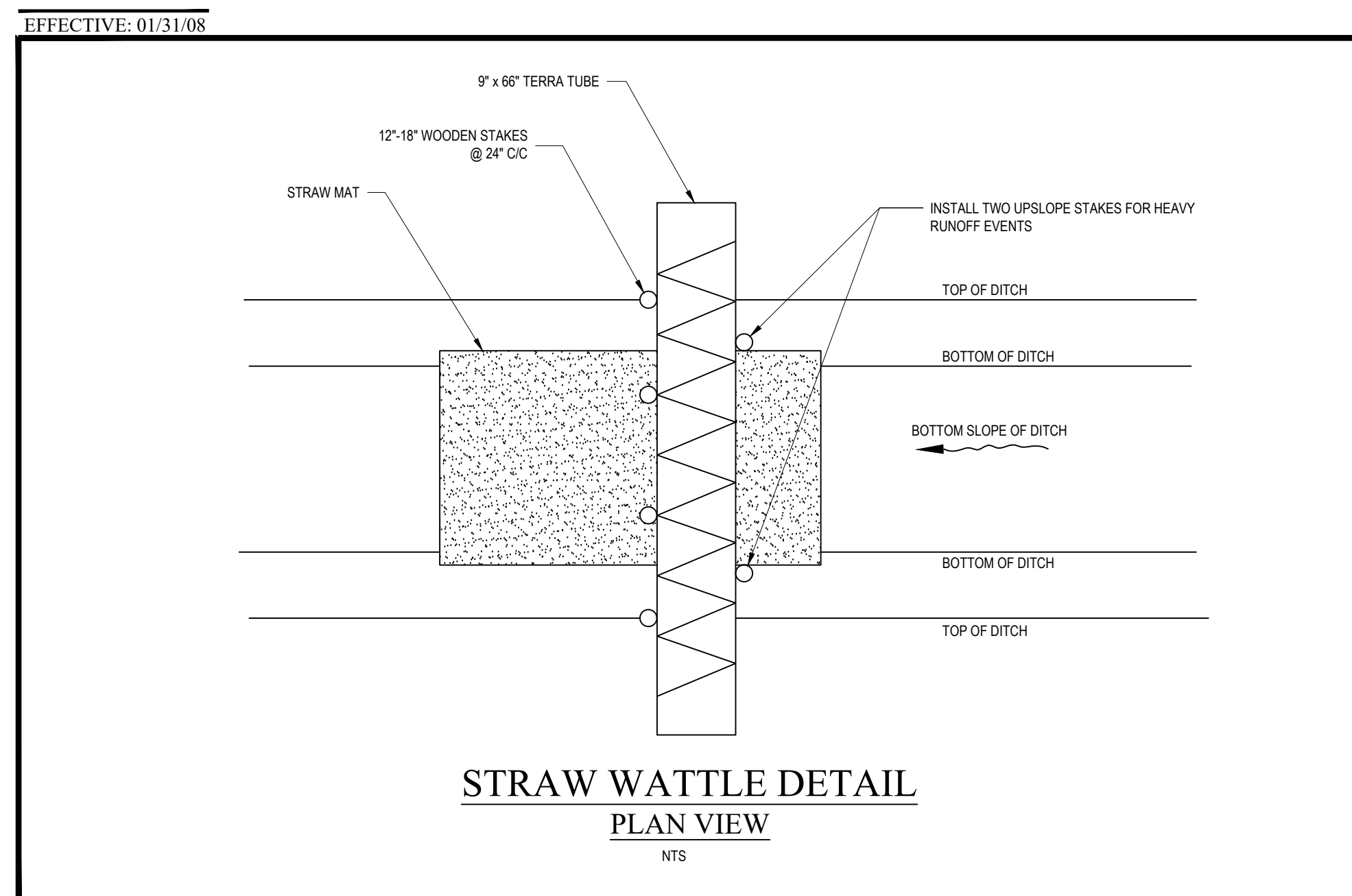
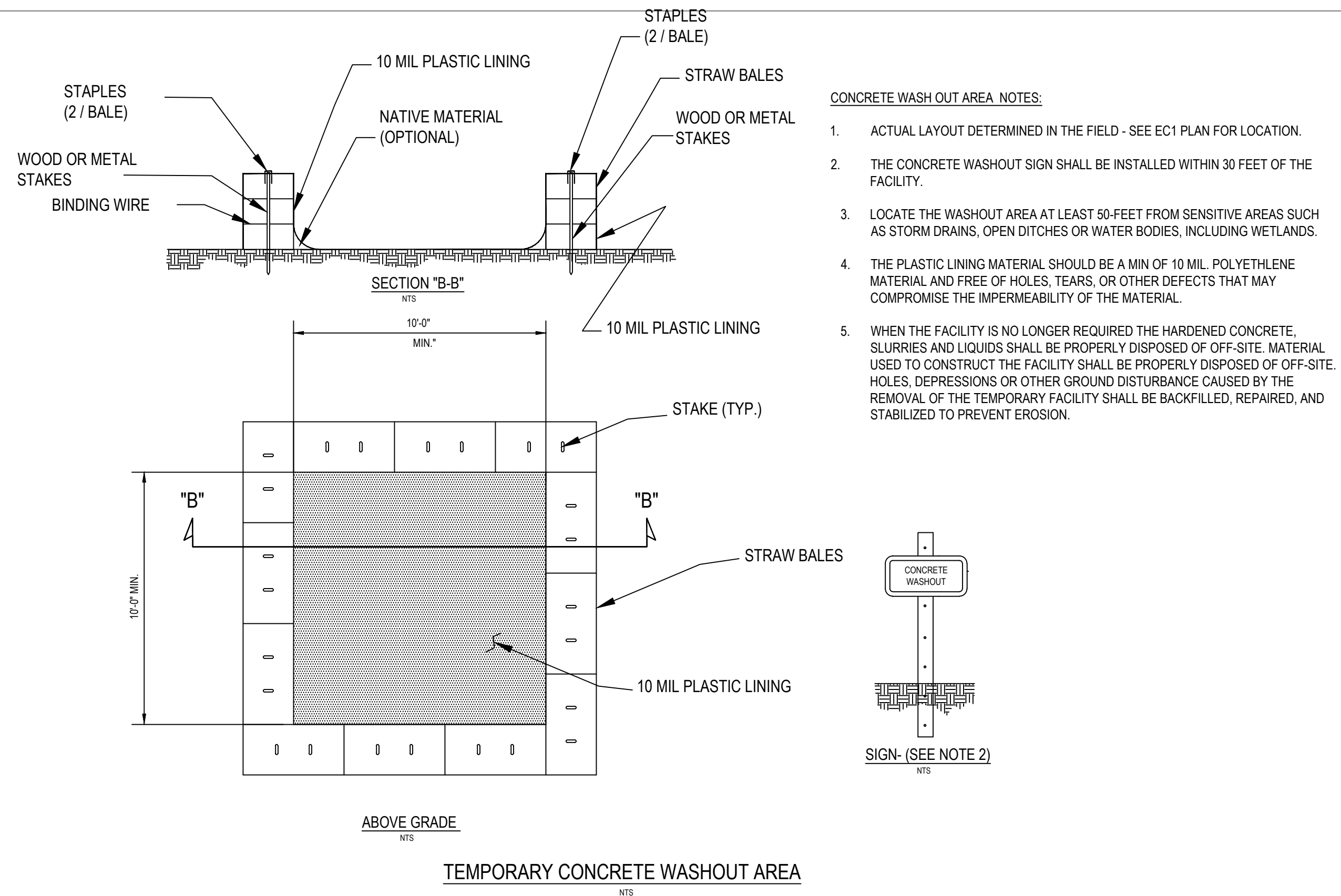
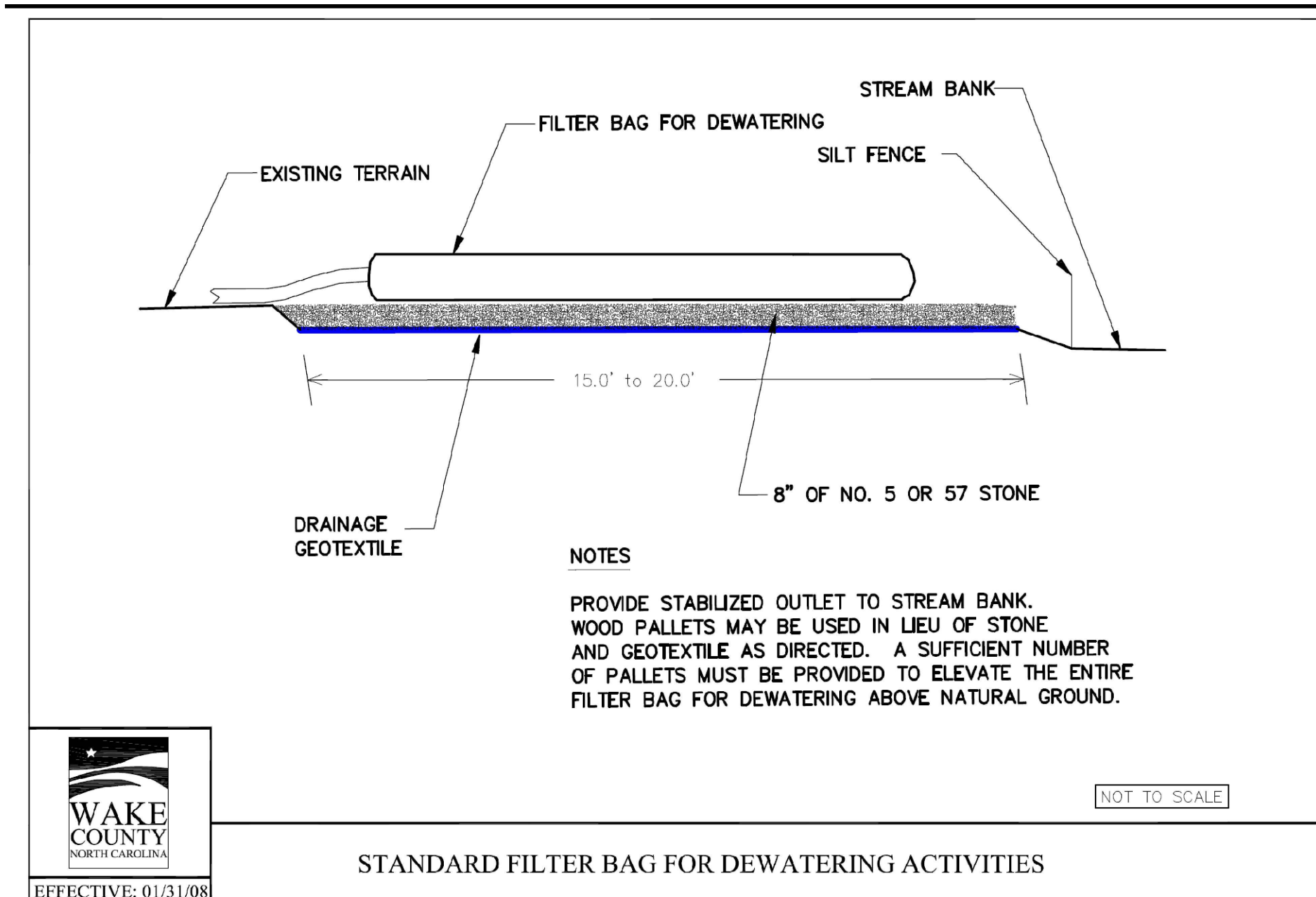
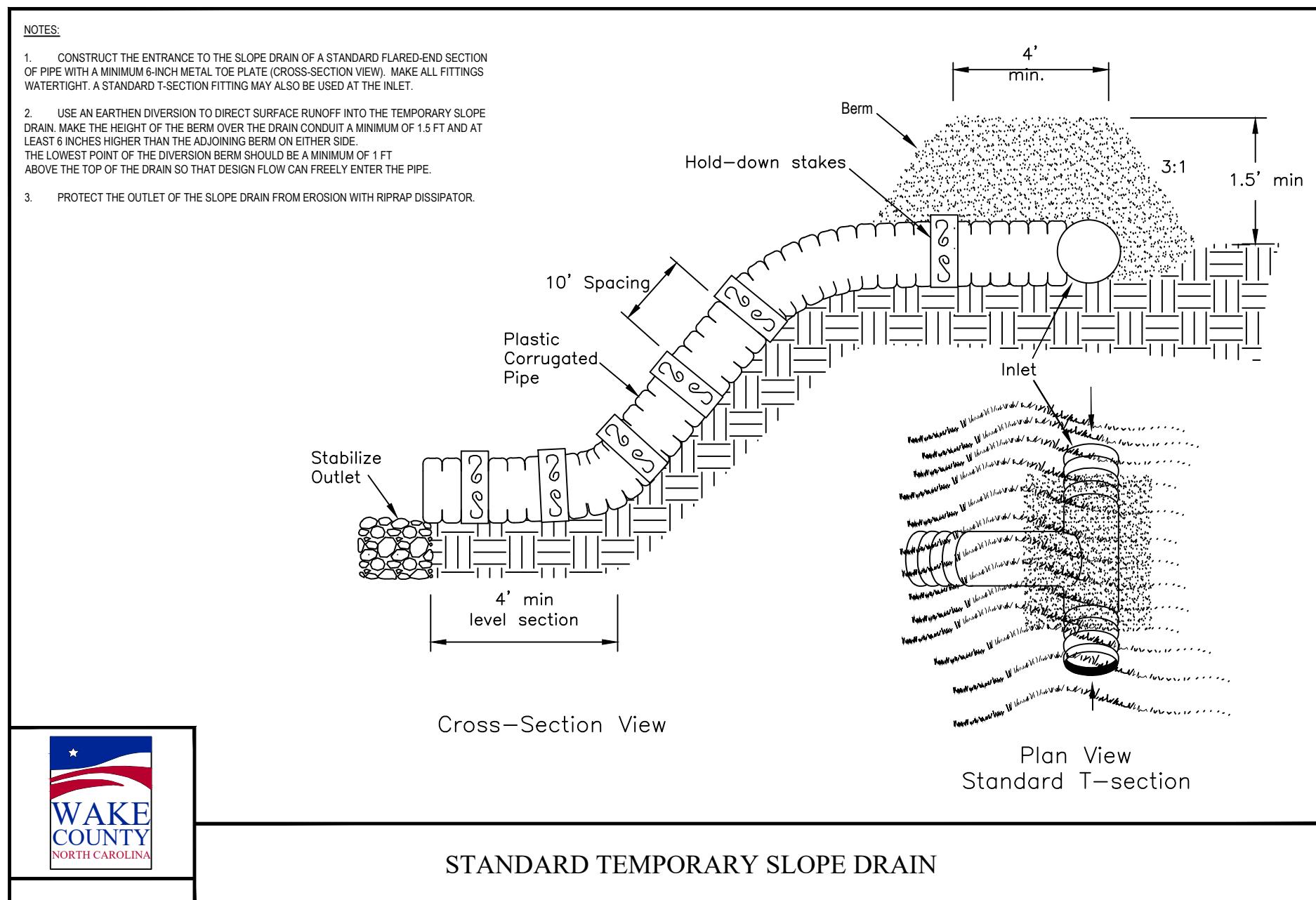
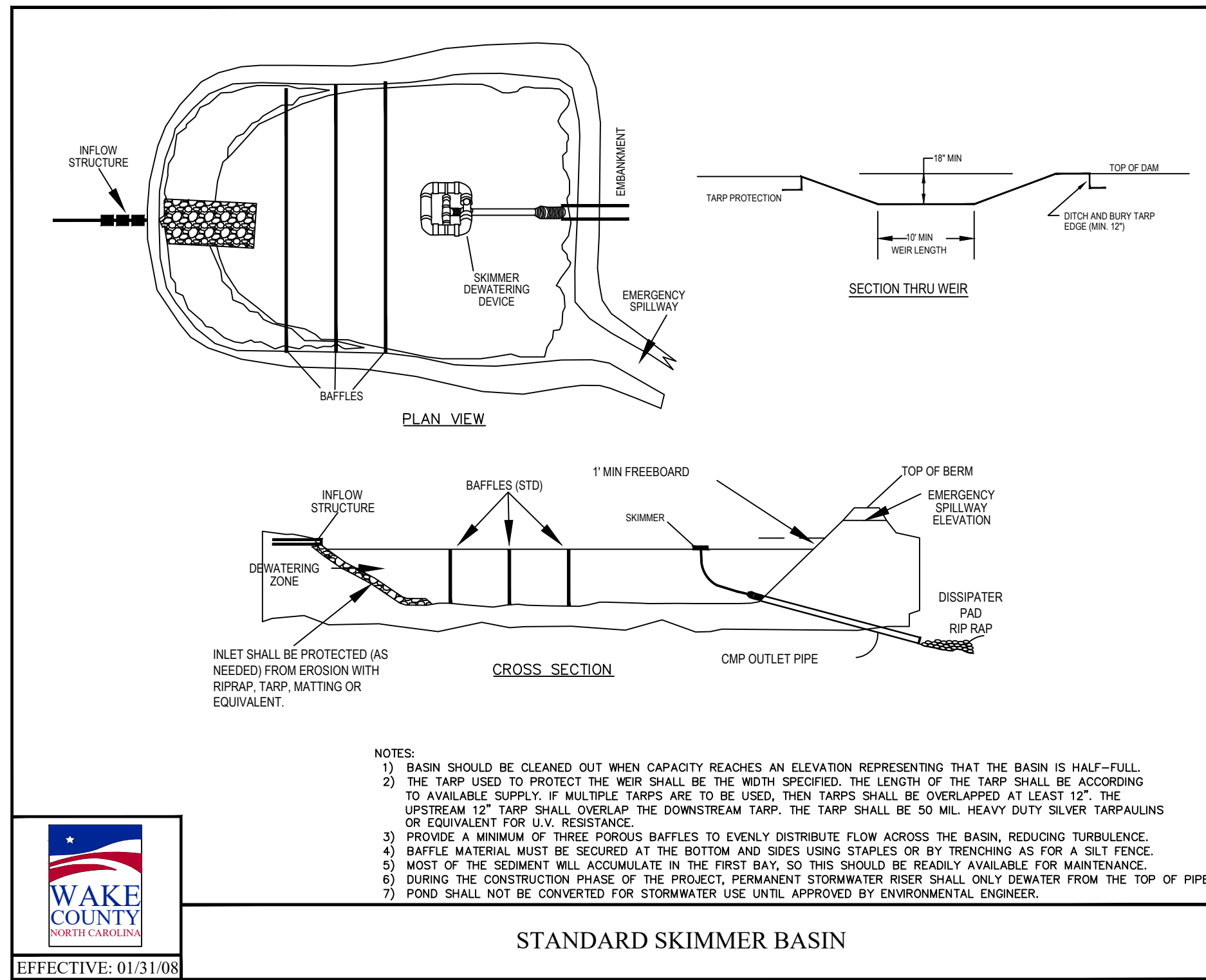
STANDARD PIPE OUTLET TO WELL-DEFINED CHANNEL



EFFECTIVE: 01/31/08

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SEEDING

SEEDBED PREPARATION:

1. CHISEL, COMPACTED AREAS AND SPREAD TOPSOIL THREE INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
2. RIP THE ENTIRE AREA TO SIX INCHES DEEP.
3. REMOVE ALL LOOSE ROCK, ROOTS AND OTHER OBSTRUCTIONS, LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
4. APPLY AGRICULTURAL LIME, FERTILIZER AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL. (SEE MIXTURE BELOW).
5. CONTINUE TILLAGE UNTIL A WELL-PLUVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED FOUR TO SIX INCHES DEEP.
6. SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
8. INSPECT ALL SEEDING AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON. IF POSSIBLE, IF STAND SHOULD BE MORE THAN 60% DAMAGED, RE-ESTABLISH FOLLOWING THE ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
9. CONSULT ENGINEER OR LANDSCAPE ARCHITECT ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

MIXTURE:

AGRICULTURAL LIMESTONE:	2 TONS/ACRE (3 TONS/ACRE IN CLAY SOILS)
FERTILIZER:	1,000 LBS/ACRE - 10-10-10
SUPERPHOSPHATE:	500 LBS/ACRE - 20% ANALYSIS
MULCH:	2 TONS/ACRE - SMALL GRAIN STRAW
ANCHOR:	ASPHALT EMULSION AT 300 GAL/ACRE

SEEDING SCHEDULE

FOR SHOULDERS, SIDE DITCHES, SLOPES (MAX 3:1):

DATE	TYPE	PLANTING RATE
AUG 15 - NOV 1	TALL FESCUE	300 LBS/ACRE
NOV 1 - MAR 1	TALL FESCUE & ABRUZZI RYE	300 LBS/ACRE
MAR 1 - APR 15	TALL FESCUE	300 LBS/ACRE
APR 15 - JUN 30	HULLED COMMON BERMUDAGRASS	25 LBS/ACRE
JUL 1 - AUG 15	TALL FESCUE AND BROWNTOP MILLET OR SORGHUM-SUDAN HYBRIDS**	125 LBS/ACRE (TALL FESCUE); 35 LBS/ACRE (BROWNTOP MILLET); 30 LBS/ACRE (SORGHUM-SUDAN HYBRIDS)

FOR SHOULDERS, SIDE DITCHES, SLOPES (3:1 TO 2:1):

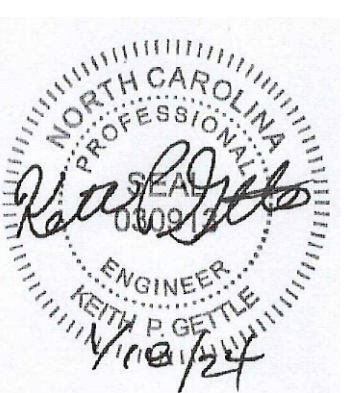
DATE	TYPE	PLANTING RATE
MAR 1 - JUN 1	SERICEA LESPEDEZA (SCARIFIED) AND UNSCARIFIED AND TALL FESCUE	50 LBS/ACRE (SERICEA LESPEDEZA); 120 LBS/ACRE (TALL FESCUE)
MAR 1 - APR 15	ADD TALL FESCUE	120 LBS/ACRE
MAR 1 - JUN 30	OR ADD WEEPING LOVE GRASS	10 LBS/ACRE
MAR 1 - JUN 30	OR ADD HULLED COMMON BERMUDAGRASS	25 LBS/ACRE
JUN 1 - SEPT 1	TALL FESCUE AND BROWNTOP MILLET OR SORGHUM-SUDAN HYBRIDS**	120 LBS/ACRE (TALL FESCUE); 35 LBS/ACRE (BROWNTOP MILLET); 30 LBS/ACRE (SORGHUM-SUDAN HYBRIDS)
SEPT 1 - MAR 1	SERICEA LESPEDEZA (UNHULLED - 70 LBS/ACRE (SERICEA LESPEDEZA); UNSCARIFIED) AND TALL FESCUE	120 LBS/ACRE (TALL FESCUE)
NOV 1 - MAR 1	AND ABRUZZI RYE	25 LBS/ACRE

CONSULT ENGINEER OR LANDSCAPE ARCHITECT FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENEGATED AREAS. THE ABOVE VEGETATION RATES ARE THOSE THAT DO WELL UNDER LOCAL CONDITIONS, OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.

** TEMPORARY - RESEED ACCORDING TO OPTIMAL SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW MORE THAN 12" IN HEIGHT BEFORE MOWING; OTHERWISE, FESCUE MAY BE SHADED OUT.

Gettle Engineering and Design, PLLC
 3616 Waxwing Court,
 Wake Forest, North Carolina 27587
 (919) 210-3934 Firm License P-2538

NO	DATE	BY	REVISION/DESCRIPTION
1	01-05-2024	BY	Per Town Comment
2		BY	COMMENT
3		BY	COMMENT
4		BY	COMMENT
5		BY	COMMENT
6		BY	COMMENT



Erosion Control Details
StorageMax (1098359)
 901 Proctor Street
 Zebulon, Wake County, North Carolina

Project No. 23001
 Dwg No. **EC6**

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT
Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

Temporary and Permanent Groundcover*

STABILIZATION TIMEFRAMES (Effective Aug. 3, 2015)		
SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
Perimeter dikes, swales, ditches, slopes	7 days	None
High Quality Water (HQW) Zones	7 days	None
Slopes steeper than 3:1	7 days	If slopes are 10' or less in length and are not adjacent to 2.5, 14 days are allowed.
Slopes 3:1 or flatter	14 days	7 days for slopes greater than 60' in length.
All other areas with slopes flatter than 4:1	14 days	None, except for perimeters and HQW Zones.

*For Falls Lake watershed, in disturbed areas where grading activities are incomplete, provide temporary groundcover no later than seven (7) days for slopes steeper than 3:1; ten (10) days for slopes equal to or flatter than 3:1; fourteen (14) days for areas with no slope.

GROUND STABILIZATION SPECIFICATION
Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below.

Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none"> Temporary grass seed covered with straw or other mulches and tackifiers Hydroseeding Roller erosion control products with or without temporary grass seed Appropriately applied straw or other mulch Plastic sheeting 	<ul style="list-style-type: none"> Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Straw or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
- Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
- Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
- Provide ponding area for containment of treated stormwater before discharging offsite.
- Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.



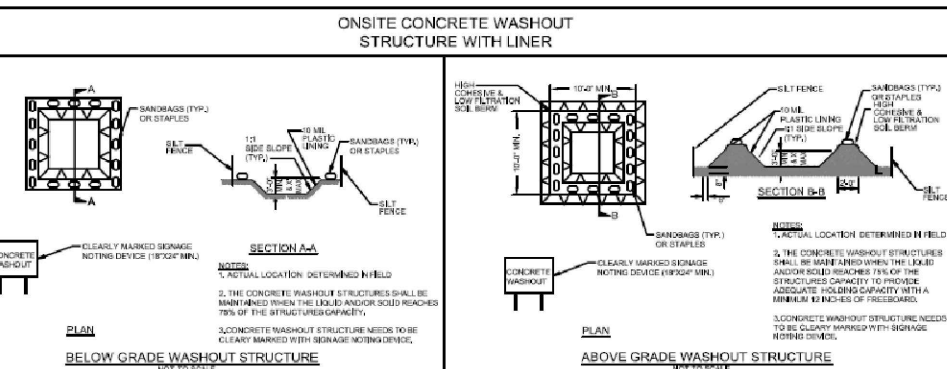
- EQUIPMENT AND VEHICLE MAINTENANCE**
- Maintain vehicles and equipment to prevent discharge of fluids.
 - Provide drip pans under any stored equipment.
 - Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
 - Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
 - Remove leaking vehicles and construction equipment from service until the problem has been corrected.
 - Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

- LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE**
- Never bury or burn waste. Place litter and debris in approved waste containers.
 - Provide a sufficient number of waste containers on site to manage the quantity of waste produced.
 - Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
 - Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
 - Cover waste containers at the end of each workday and before storm events. Repair or replace damaged waste containers.
 - Anchor all lightweight items in waste containers during times of high winds.
 - Empty waste containers as needed to prevent overflow.
 - Dispose waste off-site at an approved disposal facility.

- PAINT AND OTHER LIQUID WASTE**
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
 - Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
 - Contain liquid wastes in a controlled area.
 - Containment must be labeled, sized and placed appropriately for the needs of site.
 - Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

- PORTABLE TOILETS**
- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
 - Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
 - Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating units.

- EARTHEN STOCKPILE MANAGEMENT**
- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
 - Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
 - Provide stable stone access point when feasible.
 - Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.



- CONCRETE WASHOUTS**
- Do not discharge concrete or cement slurry from the site.
 - Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
 - Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
 - Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
 - Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
 - Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
 - Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
 - Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
 - Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
 - At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

- HERBICIDES, PESTICIDES AND RODENTICIDES**
- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
 - Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
 - Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
 - Do not stockpile these materials onsite.

- HAZARDOUS AND TOXIC WASTE**
- Create designated hazardous waste collection areas on-site.
 - Place hazardous waste containers under cover or in secondary containment.
 - Do not store hazardous chemicals, drums or bagged materials directly on the ground.

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6	DATE	COMMENT
7	DATE	COMMENT

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include [40 CFR 122.41]:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un-attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "none". The permittee may use another rain-measuring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Corrective actions taken, and 7. Date of actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, inch in 24 hours, 5. Indication of visible sediment leaving the site, 6. Actions taken to correct/prevent sedimentation, and 7. Date of actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Date of actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands outside or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Evidence and actions taken to reduce sediment contributions, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit of this permit.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be documented in the manner described:

Item to Document	Documentation Requirements
(a) Each E&SC Measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC Plan.	Initial and date each E&SC Measure on a copy of the approved E&SC Plan or complete, date and sign an inspection report that lists each E&SC Measure shown on the approved E&SC Plan. This documentation is required upon the initial installation of the E&SC Measures or if the E&SC Measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC Plan.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC Measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC Measures.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation

In addition to the E&SC Plan documents above, the following items shall be kept on the site and available for agency inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- This general permit as well as the certificate of coverage, after it is received.
- Records of inspections made during the previous 30 days. The permittee shall record the recorded observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.
- All data used to complete the Notice of Intent and older inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that must be reported

Permittees shall report the following occurrences:

- Visible sediment deposition in a stream or wetland.
- Oil spills if:
 - They are 25 gallons or more,
 - They are less than 25 gallons but cannot be cleaned up within 24 hours,
 - They cause sheen on surface waters (regardless of volume), or
 - They are within 100 feet of surface waters (regardless of volume).

- Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or 40 CFR 117.3-115.95.

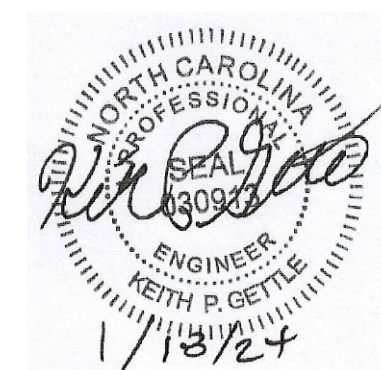
- Anticipated bypasses and unanticipated bypasses.

- Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

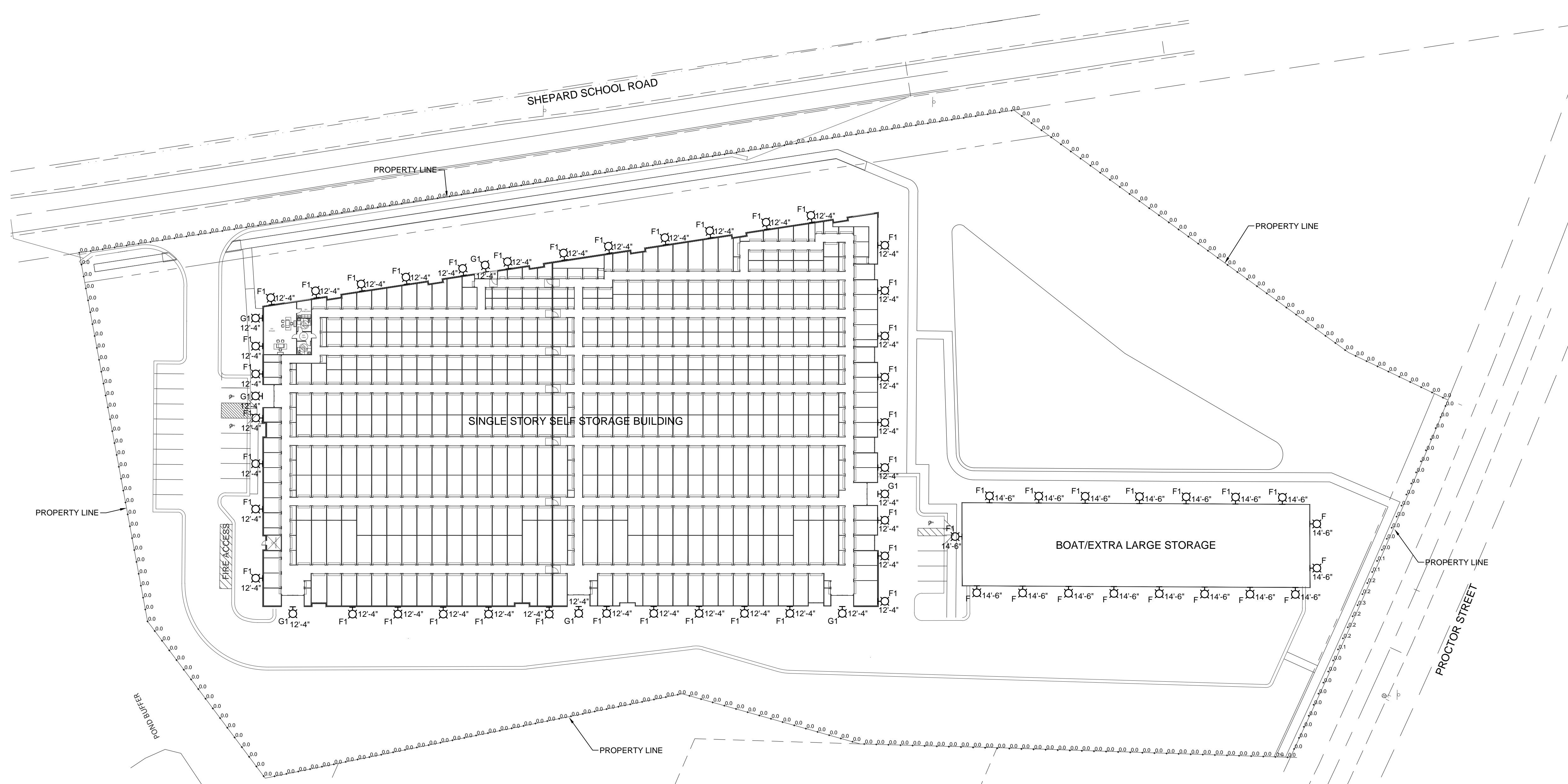
After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. If the stream is named on the <i>NC 303(d)</i> list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release. A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass. Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass. Within 24 hours, an oral or electronic notification.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass. Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(j)(7)]	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. [40 CFR 122.41(f)(6). Division staff may waive the requirement for a written report on a case-by-case basis.



NCG01 REQUIREMENTS
StorageMax (1098359)
901 Proctor Street
Zebulon, Wake County, North Carolina





A1 ELECTRICAL SITE PLAN
 1" = 40'-0"
 PLAN NORTH

LIGHTING FIXTURE SCHEDULE												
MARK	DESCRIPTION	MANUFACTURER/SERIES	NOM. SIZE	TEMP(°K)	LAMPS	VOLTS	DELIVERED LUMENS	WATTS	COLOR	MOUNTING HEIGHT	BALLAST/ DRIVER	REMARKS
F	WALL MOUNTED EXTERIOR LED FIXTURE FULL CUTOFF	HUBBELL SG SERIES OR APPROVED EQUAL	N/A	4000	LEDs	120	5548	51	DARK BRONZE	REFER TO PLANS	LED DRIVER	
F1	WALL MOUNTED EXTERIOR LED FIXTURE FULL CUTOFF	HUBBELL SG SERIES OR APPROVED EQUAL	N/A	4000	LEDs	120	2263	21	DARK BRONZE	REFER TO PLANS	LED DRIVER	
G1	WALL MOUNTED EXTERIOR LED FIXTURE FULL CUTOFF WITH EMERGENCY 90 MINUTE BATTERY	HUBBELL COMPASS CUSO OR APPROVED EQUAL	N/A	4000	LEDs	120	1600 AC 600 EM	17	DARK BRONZE	REFER TO PLANS	LED DRIVER	

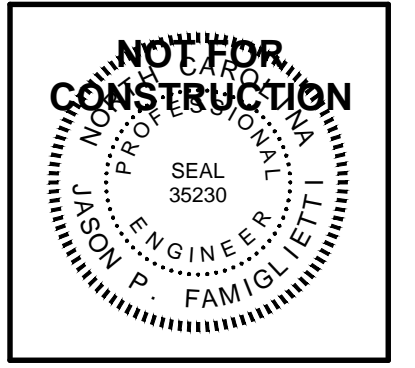
*THE ENGINEER OF RECORD CONFIRMS THAT THE LIGHT FIXTURES SPECIFIED AND LIGHTING LEVELS ACHIEVED MEET THE REQUIREMENTS OF THE LATEST VERSION OF THE ZEBULON UNIFIED DEVELOPMENT ORDINANCE

STATISTICS				
DESCRIPTION	AVG.	MAX.	MIN.	AVG/MIN.
PROPERTY LINE	0.0 FC	0.3 FC	0.0FC	N/A

Owner, acknowledges and agrees that Robert High Development, LLC (RHD) and CBHF Engineers, PLLC (CBHF) retain all rights in and to the design and specifications herein and all of its proprietary rights embodied therein or related thereto. Except in connection with the design and specifications herein, no part of this design and specifications may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of CBHF and RHD. The Plans and Specifications and any contents of any documents or information embodied therein or relating thereto shall not be used, reproduced or copied, in whole or in part, without the prior written permission of CBHF and RHD.

ISSUED FOR APPROVAL
 Revision No. 0
 Date: 01.16.2024

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 NC# P-0506



STORAGEMAX
 SELF STORAGE FACILITY
 901 PROCTOR STREET
 ZEBULON, WAKE COUNTY, NORTH CAROLINA

**ELECTRICAL
 SITE PHOTOMETRIC PLAN**

JOB NO: CBHF-2233 RHD-22-8025
 DRAWN: RRD
 DESIGNED: RRD
 CHECKED: JPF

DRAWING NO:
ES101

REVISION:
 0

DATE: LOCATION: TYPE: **F** PROJECT: CATALOG #:

SLING Series

SLENDER WALLPACK

tradeSELECT™

FEATURES

- Two sizes for a variety of applications
- Ranges from 21W to 80W with up to 8000 lumens
- SG1 Series replaces from 100W-150W HID; SG2 Series replaces from 150W-250W HID
- Comfort lens available as an option or accessory provides glare control and enhanced uniformity
- Knuckle and trunion accessory mounting kits available for food applications
- IP65 and certified to UL 1598 for use in wet locations up to 40°C ambient
- DLC (DesignLights Consortium Qualified - see www.designlights.org)

RELATED PRODUCTS

- # LNC Litepak
- # LNC Litepak
- # LNC3 Litepak
- # LNC4 Litepak
- # GeoPak
- # GeoPak2

PHOTO METER | **INSTRUCTION SHEET** | **SCD PAGE** | **SLING BROCHURE**

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DATE: LOCATION: TYPE: PROJECT: CATALOG #:

SLING SERIES

SLENDER WALLPACK

tradeSELECT™

Example: SGI-20-3K7-F1-UVW-DBT-PCU-CS

ORDERING INFORMATION

Housing	CCT/CRI	Distribution	Voltage	Color/Finish	Control Options	Options
SG1-10	Size 1, 30W	3K7 3000K, 70 CR	120V 120V-277V	BLS Black Gloss Smooth	PCU Universal Button Protocol (120-277V)	CS Comfort Lens
SG1-20	Size 1, 30W	4K7 4000K, 70 CR	120V 120V-277V	DBS Dark Bronze Matte Textured	SCP ³ Occupancy Sensor Programmable Dim	EHP Battery w/ heater 20"
SG1-40	Size 1, 40W	5K7 5000K, 70 CR	120V 120V-277V	DBS Dark Bronze Gloss Smooth	SWMP ² SteaSonic Pre-commission w/ Sensor	
SG2-50	Size 2, 50W	5K7 5000K, 70 CR	120V 120V-277V	GTT Graphite Matte Textured	Specify MTG HT for SCD/SCP & SWMP	
SG2-80	Size 2, 80W	5K7 5000K, 70 CR	120V 120V-277V	LGS Light Grey Gloss Smooth	BP Up to 8'	
				WHT White Matte Textured	20F Up to 20'	
				PSS Platinum Silver Smooth		
				WHT White Matte Textured		
				WHS White Gloss Smooth		
				VGT Verde Green Textured		
				Color Option		
				CC Custom Color		

STOCK ORDERING INFORMATION

Catalog Number	CCT/CRI	Wattage	Mounting Height	Color	Color	Delivered Lumens	LPW	Weight lbs. (kg)
SG1-10-PCU	3000K/70	10W	8'-12"	120-277V	Dark Bronze	1949	122	4.3 (2.0)
SG1-10-4K-PCU	4000K/70	10W	8'-12"	120-277V	Dark Bronze	1624	129	4.3 (2.0)
SG1-20-PCU	5000K/70	21W	8'-12"	120-277V	Dark Bronze	2263	108	4.3 (2.0)
SG1-20-4K-PCU	4000K/70	21W	8'-12"	120-277V	Dark Bronze	2380	110	4.3 (2.0)
SG1-30-PCU	5000K/70	29W	10'-15"	120-277V	Dark Bronze	3270	113	4.3 (2.0)
SG1-30-4K-PCU	4000K/70	29W	10'-15"	120-277V	Dark Bronze	3060	105	4.3 (2.0)
SG1-40-PCU	5000K/70	38W	10'-15"	120-277V	Dark Bronze	4008	105	4.3 (2.0)
SG1-40-4K-PCU	4000K/70	38W	10'-15"	120-277V	Dark Bronze	4070	106	4.3 (2.0)
SG2-50-PCU	5000K/70	50W	12'-18"	120-277V	Dark Bronze	5548	110	8.5 (3.9)
SG2-50-4K-PCU	4000K/70	50W	12'-18"	120-277V	Dark Bronze	5526	109	8.5 (3.9)
SG2-80-PCU	5000K/70	80W	15-25'	120-277V	Dark Bronze	8061	101	8.5 (3.9)
SG2-80-4K-PCU	4000K/70	80W	15-25'	120-277V	Dark Bronze	8079	101	8.5 (3.9)

KEY DATA

Lumen Range	2263-8079
Wattage Range	21-80
Efficiency Range (LPW)	101-113
Fixture Projected Life (Hours)	L70-50K
Weights lbs. (kg)	4.3 (2.0-5.0)

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DATE: LOCATION: TYPE: **G1** PROJECT: CATALOG #:

CUSO

SLIM LED AC/EMERGENCY OUTDOOR LIGHT

tradeSELECT™

FEATURES

- Includes self-diagnostic/test feature to monitor proper operation
- Quick installation
- Universal 120-277VAC input, 60Hz
- Includes long-life 7.2V Nickel Cadmium battery for UL recognized 90 minute operation
- Full re-charge within 24 hours
- Provided with weather-proof test switch and AC-On Indicator
- 0°C to 50°C Standard Model, -25°C to 50°C with optional heater
- UL 924 and Wet Location Listed

PHOTO METER | **INSTRUCTION SHEET** | **SCD PAGE** | **SLING BROCHURE**

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C2 FIXTURE TYPE F CUTSHEET
NOT TO SCALE

DATE: LOCATION: TYPE: **F1** PROJECT: CATALOG #:

SLING Series

SLENDER WALLPACK

tradeSELECT™

FEATURES

- Two sizes for a variety of applications
- Ranges from 21W to 80W with up to 8000 lumens
- SG1 Series replaces from 100W-150W HID; SG2 Series replaces from 150W-250W HID
- Comfort lens available as an option or accessory provides glare control and enhanced uniformity
- Knuckle and trunion accessory mounting kits available for food applications
- IP65 and certified to UL 1598 for use in wet locations up to 40°C ambient
- DLC (DesignLights Consortium Qualified - see www.designlights.org)

RELATED PRODUCTS

- # LNC Litepak
- # LNC Litepak
- # LNC3 Litepak
- # LNC4 Litepak
- # GeoPak
- # GeoPak2

PHOTO METER | **INSTRUCTION SHEET** | **SCD PAGE** | **SLING BROCHURE**

Page 18 Rev. 10/17/20
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A2 FIXTURE TYPE F1 CUTSHEET
NOT TO SCALE

DATE: LOCATION: TYPE: PROJECT: CATALOG #:

SLING SERIES

SLENDER WALLPACK

tradeSELECT™

Example: SGI-20-3K7-F1-UVW-DBT-PCU-CS

ORDERING INFORMATION

Housing	CCT/CRI	Distribution	Voltage	Color/Finish	Control Options	Options
SG1-10	Size 1, 30W	3K7 3000K, 70 CR	120V 120V-277V	BLS Black Gloss Smooth	PCU Universal Button Protocol (120-277V)	CS Comfort Lens
SG1-20	Size 1, 30W	4K7 4000K, 70 CR	120V 120V-277V	DBS Dark Bronze Matte Textured	SCP ³ Occupancy Sensor Programmable Dim	EHP Battery w/ heater 20"
SG1-40	Size 1, 40W	5K7 5000K, 70 CR	120V 120V-277V	DBS Dark Bronze Gloss Smooth	SWMP ² SteaSonic Pre-commission w/ Sensor	
SG2-50	Size 2, 50W	5K7 5000K, 70 CR	120V 120V-277V	GTT Graphite Matte Textured	Specify MTG HT for SCD/SCP & SWMP	
SG2-80	Size 2, 80W	5K7 5000K, 70 CR	120V 120V-277V	LGS Light Grey Gloss Smooth	BP Up to 8'	
				WHT White Matte Textured	20F Up to 20'	
				PSS Platinum Silver Smooth		
				WHT White Matte Textured		
				WHS White Gloss Smooth		
				VGT Verde Green Textured		
				Color Option		
				CC Custom Color		

STOCK ORDERING INFORMATION

Catalog Number	CCT/CRI	Wattage	Mounting Height	Color	Color	Delivered Lumens	LPW	Weight lbs. (kg)
SG1-10-PCU	3000K/70	10W	8'-12"	120-277V	Dark Bronze	1949	122	4.3 (2.0)
SG1-10-4K-PCU	4000K/70	10W	8'-12"	120-277V	Dark Bronze	1624	129	4.3 (2.0)
SG1-20-PCU	5000K/70	21W	8'-12"	120-277V	Dark Bronze	2263	108	4.3 (2.0)
SG1-20-4K-PCU	4000K/70	21W	8'-12"	120-277V	Dark Bronze	2380	110	4.3 (2.0)
SG1-30-PCU	5000K/70	29W	10'-15"	120-277V	Dark Bronze	3270	113	4.3 (2.0)
SG1-30-4K-PCU	4000K/70	29W	10'-15"	120-277V	Dark Bronze	3060	105	4.3 (2.0)
SG1-40-PCU	5000K/70	38W	10'-15"	120-277V	Dark Bronze	4008	105	4.3 (2.0)
SG1-40-4K-PCU	4000K/70	38W	10'-15"	120-277V	Dark Bronze	4070	106	4.3 (2.0)
SG2-50-PCU	5000K/70	50W	12'-18"	120-277V	Dark Bronze	5548	110	8.5 (3.9)
SG2-50-4K-PCU	4000K/70	50W	12'-18"	120-277V	Dark Bronze	5526	109	8.5 (3.9)
SG2-80-PCU	5000K/70	80W	15-25'	120-277V	Dark Bronze	8061	101	8.5 (3.9)
SG2-80-4K-PCU	4000K/70	80W	15-25'	120-277V	Dark Bronze	8079	101	8.5 (3.9)

KEY DATA

Lumen Range	2263-8079
Wattage Range	21-80
Efficiency Range (LPW)	101-113
Fixture Projected Life (Hours)	L70-50K
Weights lbs. (kg)	4.3 (2.0-5.0)

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C4 FIXTURE TYPE G1 CUTSHEET
NOT TO SCALE

DATE: LOCATION: TYPE: PROJECT: CATALOG #:

01.16.2024

ISSUED FOR APPROVAL

REVISIONS

0

2246 Yaucon Drive
Wilmington, NC 28401

Phone: 910.791.4000
Fax: 910.791.5266
www.cbhfelectrical.com

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NOT FOR CONSTRUCTION

SEAL 35230

REGISTERED PROFESSIONAL ENGINEER

FAMIGLIETTI

STORAGEMAX
SELF STORAGE FACILITY
901 PROCTOR STREET
ZEBULON, WAKE COUNTY, NORTH CAROLINA

ELECTRICAL
EXTERIOR LIGHTING CUTSHEETS

JOB NO: CBHF-2233 RHD-22-8025

DRAWN: RRD

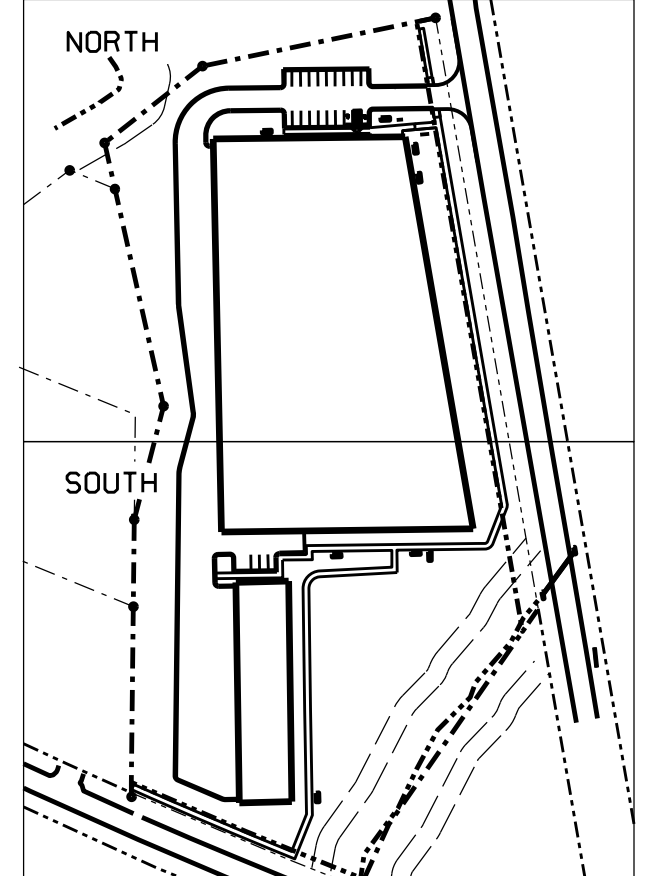
DESIGNED: RRD

CHECKED: JPF

DRAWING NO:
ES001

REVISION:
0

N/F
WILLIE MCKINLEY DUNN
DB 15919, PAGE 2678
BM 2017, PAGE 1539
PIN# 2706.17-22-3044
ZONING - HC

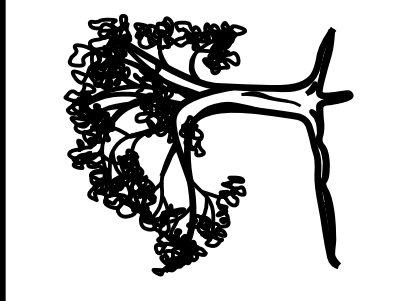


KEY PLAN: 1"=200'

- NOTES:
- 1 UDO 5.6.12, STREETSCAPE BUFFER - THE BUFFER AREA CONTAINS OVERHEAD LINES IN AN EASEMENT
TOTAL LENGTH = 644.4'
- REQ. 26 UNDERSTORY TREES, 129 SHRUBS SHOWN ON NORTH SHEET = 444'
PROVIDED - 19 UNDERSTORY TREES, 88 SHRUBS
 - 2 UDO 5.6.13, STREET TREES - TREE PLANTING IS LOCATED BETWEEN THE OVERHEAD LINE EASEMENT AND THE OLD R/W LINE - 10' FROM WALK AND 20' FROM THE BACK OF CURB LENGTH SHOWN ON NORTH SHEET = 444'
TREES SHOWN = 9
 - 3 TO ENSURE THE HEALTH OF EXISTING TREES IN THE BUFFERS, SHRUB PLANTING FOR THE BUFFER IS BEING PROPOSED OUTSIDE THE ROOT ZONE AND THUS OUTSIDE THE BUFFER
 - 4 SITE BUFFER 1 - TYPE A - 228 LF - HC TO HC REQ. 10' WIDTH - 10 UNDERSTORY TREES, 35 SHRUBS EXISTING TREES TO BE PROTECTED - 2
 - 5 SITE BUFFER 2 - TYPE A - 129.7 LF - HC TO HC REQ. 10' WIDTH - 6 UNDERSTORY TREES, 20 SHRUBS EXISTING TREES TO BE PROTECTED - 18
 - 6 SITE BUFFER 3 - TYPE A - 281.3 LF - HC TO HC REQ. 10' WIDTH - 12 UNDERSTORY TREES, 43 SHRUBS EXISTING TREES TO BE PROTECTED - 12
 - 7 SITE BUFFER 4 - TYPE A - 122 LF - HC TO HC SHOWN ON NORTH SHEET = 38'
REQ. 10' WIDTH - 2 UNDERSTORY TREES, 6 SHRUBS EXISTING TREES TO BE PROTECTED - 4
 - 8 PARKING - 19 SPACES - 2 TREES REQUIRED 4 TREES PROVIDED IN ORDER TO PROVIDE FOR THE REQUIREMENT THAT ALL SPACES BE WITHIN 50' OF A TREE.

- LEGEND:
- AREA OF BUFFER
 - EXISTING TREE TO BE PROTECTED
 - PROPOSED PLANT MATERIAL
 - PLANT KEY - SEE PLANT LIST
 - PLANT GROUPING COUNT
 - TREE PROTECTION FENCE

N/F
(CEMETERY)
WAKEFIELD MISSIONARY BAPTIST CHURCH, INC.
DB 17738, PAGE 1250
BM 2015, PAGE 2171
PIN# 2706.17-21-4682
ZONING - HC



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DESIGNED: AAP
DRAWN:
APPROVED: AAP



PROJECT 23003

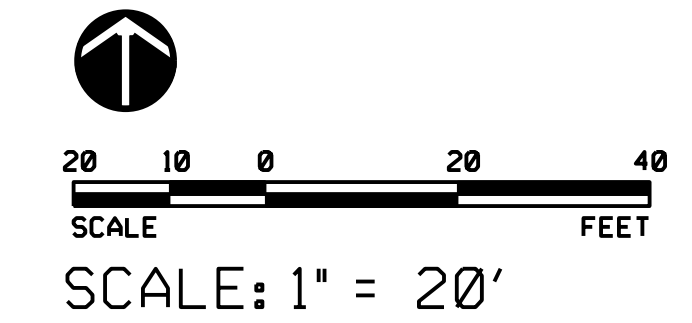
STORAGE MAX
PLANTING PLAN
STORAGE MAX
901 PROCTOR ST., ZEBULON
WAKE COUNTY, NORTH CAROLINA

NO.	DATE	REVISIONS
1	12-28-23	COMMENT RESP. / LAYOUT REV.

SCALE: 1"=20'
DATE: JULY 17, 2023

SHEET NO.:
PLANTING PLAN - NORTH
LS-1

SEQUENCE NO. OF

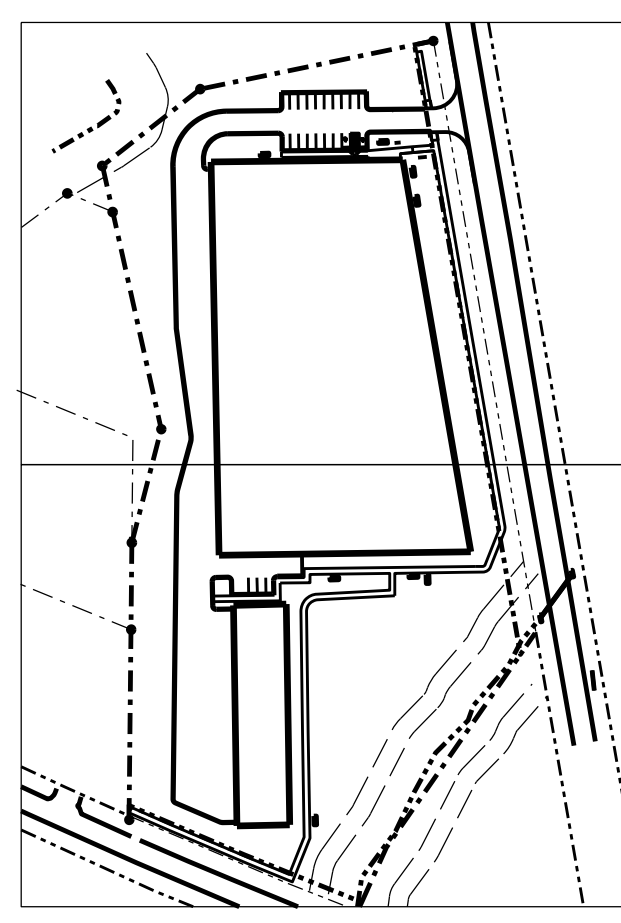
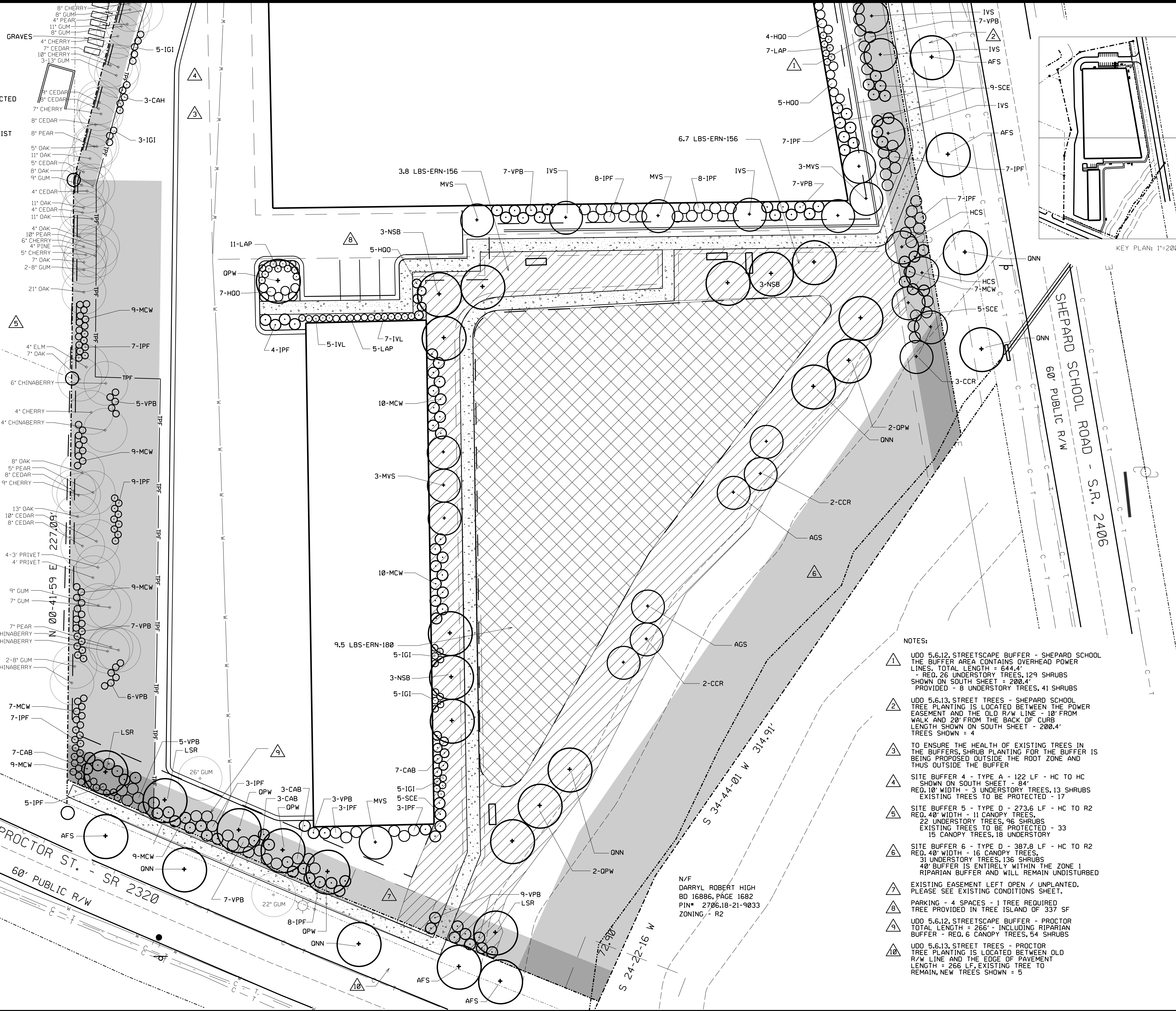
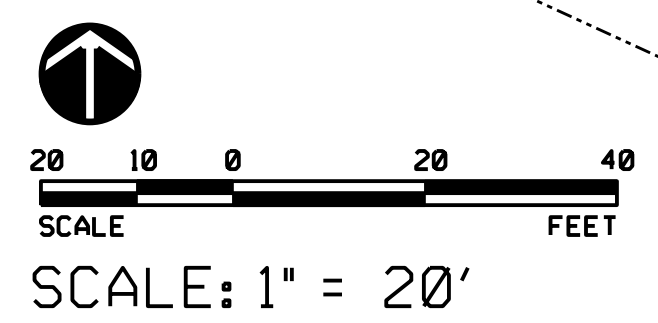


SCALE: 1" = 20'

- LEGEND:**
- AREA OF BUFFER
 - EXISTING TREE TO BE PROTECTED
 - PROPOSED PLANT MATERIAL
 - + PLANT KEY - SEE PLANT LIST
 - + PLANT GROUPING COUNT
 - + 7-MCW
 - + 5-CAH
 - + TREE PROTECTION FENCE

N/F
UNKNOWN
PIN # 2706.17-21-4423
ZONING - R2

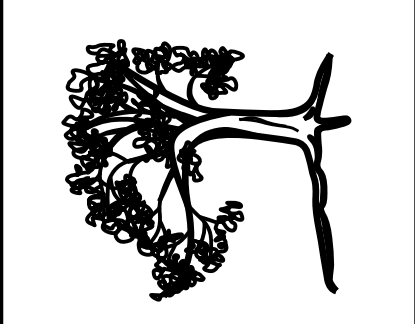
N/F
WAKEFIELD BAPTIST CHURCH
DB 1041, PAGE 224
BM 2004, PAGE 1244
PIN# 2706.17-21-3256
ZONING - R2



- NOTES:**
- 1 UDD 5.6.12, STREETSCAPE BUFFER - SHEPARD SCHOOL THE BUFFER AREA CONTAINS OVERHEAD POWER LINES. TOTAL LENGTH = 644.4' - REQ. 26 UNDERSTORY TREES, 129 SHRUBS SHOWN ON SOUTH SHEET = 200.4' PROVIDED - 8 UNDERSTORY TREES, 41 SHRUBS
 - 2 UDD 5.6.13, STREET TREES - SHEPARD SCHOOL TREE PLANTING IS LOCATED BETWEEN THE POWER EASEMENT AND THE OLD R/W LINE - 10' FROM WALK AND 20' FROM THE BACK OF CURB LENGTH SHOWN ON SOUTH SHEET - 200.4' TREES SHOWN = 4
 - 3 TO ENSURE THE HEALTH OF EXISTING TREES IN THE BUFFERS, SHRUB PLANTING FOR THE BUFFER IS BEING PROPOSED OUTSIDE THE ROOT ZONE AND THUS OUTSIDE THE BUFFER
 - 4 SITE BUFFER 4 - TYPE A - 122 LF - HC TO HC SHOWN ON SOUTH SHEET - 84' REQ. 10' WIDTH - 3 UNDERSTORY TREES, 13 SHRUBS EXISTING TREES TO BE PROTECTED - 17
 - 5 SITE BUFFER 5 - TYPE D - 273.6 LF - HC TO R2 REQ. 40' WIDTH - 11 CANOPY TREES, 22 UNDERSTORY TREES, 96 SHRUBS EXISTING TREES TO BE PROTECTED - 33 15 CANOPY TREES, 18 UNDERSTORY
 - 6 SITE BUFFER 6 - TYPE D - 387.8 LF - HC TO R2 REQ. 40' WIDTH - 16 CANOPY TREES, 31 UNDERSTORY TREES, 136 SHRUBS 40' BUFFER IS ENTIRELY WITHIN THE ZONE 1 RIPARIAN BUFFER AND WILL REMAIN UNDISTURBED
 - 7 EXISTING EASEMENT LEFT OPEN / UNPLANTED. PLEASE SEE EXISTING CONDITIONS SHEET.
 - 8 PARKING - 4 SPACES - 1 TREE REQUIRED TREE PROVIDED IN TREE ISLAND OF 337 SF
 - 9 UDD 5.6.12, STREETSCAPE BUFFER - PROCTOR TOTAL LENGTH = 266' - INCLUDING RIPARIAN BUFFER - REQ. 6 CANOPY TREES, 54 SHRUBS
 - 10 UDD 5.6.13, STREET TREES - PROCTOR TREE PLANTING IS LOCATED BETWEEN OLD R/W LINE AND THE EDGE OF PAVEMENT LENGTH = 266 LF. EXISTING TREE TO REMAIN, NEW TREES SHOWN = 5

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PRELIMINARY - FOR CONSTRUCTION



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LAND PLANNER
(919) 363-4415
106 STEEPBANK DRIVE
CARY, NC 27518

DESIGNED: AAP
DRAWN:
APPROVED: AAP



PROJECT 23003

STORAGE MAX PLANTING PLAN	STORAGE MAX 901 PROCTOR ST., ZEBULON WAKE COUNTY, NORTH CAROLINA
------------------------------	--

NO.	DATE	REVISIONS
1	12.28.23	COMMENT RESP. / REV. LAYOUT

SCALE: 1"=20'
DATE: JULY 17, 2023
SHEET NO.:
PLANTING PLAN - SOUTH
LS-2
SEQUENCE NO. 0P

PLANT LIST - TREE PLANTING

KEY	COUNT	PLANT NAME	SIZE & SPR.	O/C	SPACING	FOLIAGE
AFS	9	ACER FLORIDANUM, SOUTHERN SUGAR MAPLE	2.5'B&B, 8'HT		20'	DEC
LSR	7	LIQUIDAMBAR STYRACIFLUA 'ROTUNDILOBA', FRUITLESS SWEETGUM	2.5'B&B, 8'HT		20'	DEC
NSB	11	NYSSA SYLVATICA, BLACK GUM	2.5'B&B, 8'HT		20'	DEC
QNN	9	QUERCUS NUTTALLI, NUTTAL OAK	2.5'B&B, 8'HT		20'	DEC
QPW	10	QUERCUS PHELLOS, WILLOW OAK	2.5'B&B, 8'HT		20'	DEC
AGS	10	AMELANCHIER GRANDIFLORA, SERVICEBERRY	1.5"CAL, 6'HT		15'	DEC
CCR	13	CERCIS CANADENSIS, REDBUD	1.5"CAL, 6'HT		15'	DEC
HCS	8	HALESIA CAROLINA, SILVERBELL	1.5"CAL, 6'HT		15'	DEC
IVS	14	ILEX VOMITORIA 'SHADOW'S FEMALE', YAUPON HOLLY	6'HT, CONT.		15'	EVER
JBV	6	JUNIPERUS VIRGINIANA 'BURKII', BURKII CEDAR	6'HT, CONT.		15'	EVER
MVS	14	MAGNOLIA VIRGINIANA 'AUSTRALIS', SWEET BAY	6'HT, CONT.		15'	EVER

PLANT LIST - SHRUB PLANTING

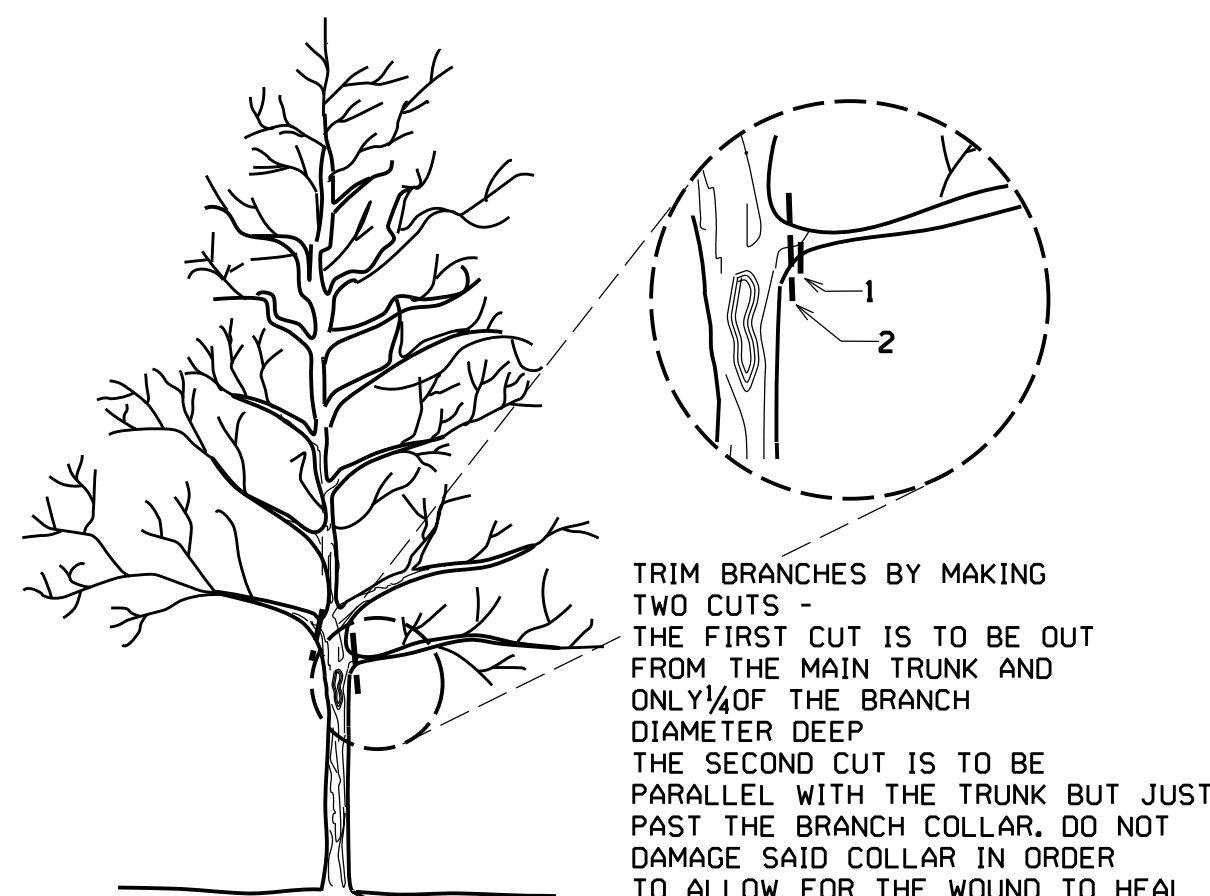
KEY	COUNT	PLANT NAME	SIZE & SPR.	O/C	SPACING	FOLIAGE
IPF	135	ILICIAM PARVIFLORUM 'FOREST GREEN', ANISE	3GAL, 24"HT		3/5'	EVER
MCW	151	MYRICA CERIFERA, WAX MYRTLE	3GAL, 24"HT		3/5'	EVER
SCE	35	SAMBUCUS CANADENSIS, ELDERBERRY	3GAL, 24"HT		5'	DEC
VPB	97	VIBURNUM PRUNIFOLIUM, BLACKHAW	3GAL, 24"HT		3/5'	EVER
CAB	27	CALLICARPA AMERICANA 'ATROPURPUREA', BEAUTYBERRY	3GAL, 24"HT		4/5'	DEC
HQO	32	HYDRANGEA QUERCIFOLIA 'ALICE', OAKLEAF HYDRANGEA	3GAL, 18"HT		4'	DEC
CAH	48	CLETHRA ALNIFOLIA 'HUMMINGBIRD', CLETHRA	3GAL, 18"HT		3'	DEC
IGI	39	ILEX GLABRA 'SHAMROCK', INKBERRY	3GAL, 24"HT		3'	EVER
IVL	19	ITEA VIRGINICA 'LITTLE HENRY', SWEETSPIRE	3GAL, 18"HT		3'	DEC
LAP	66	LEUCOTHOE POPULIFOLIA, FLORIDA LEUCOTHOE	3GAL, 15"HT		3'	EVER
ERN-156	10.5	ERNST CONSERVATION SEED MIX - ERNMX-156	BY POUND		25 LBS/ACRE	
ERN-180	9.5	ERNST CONSERVATION SEED MIX - ERNMX-180-2	BY POUND		0.5 LB/1,000 SF	

NOTE: ALL PLANT MATERIAL SPECIFIED IS CONSIDERED TO BE A LOCAL NC NATIVE WITH THE FOLLOWING EXCEPTIONS:

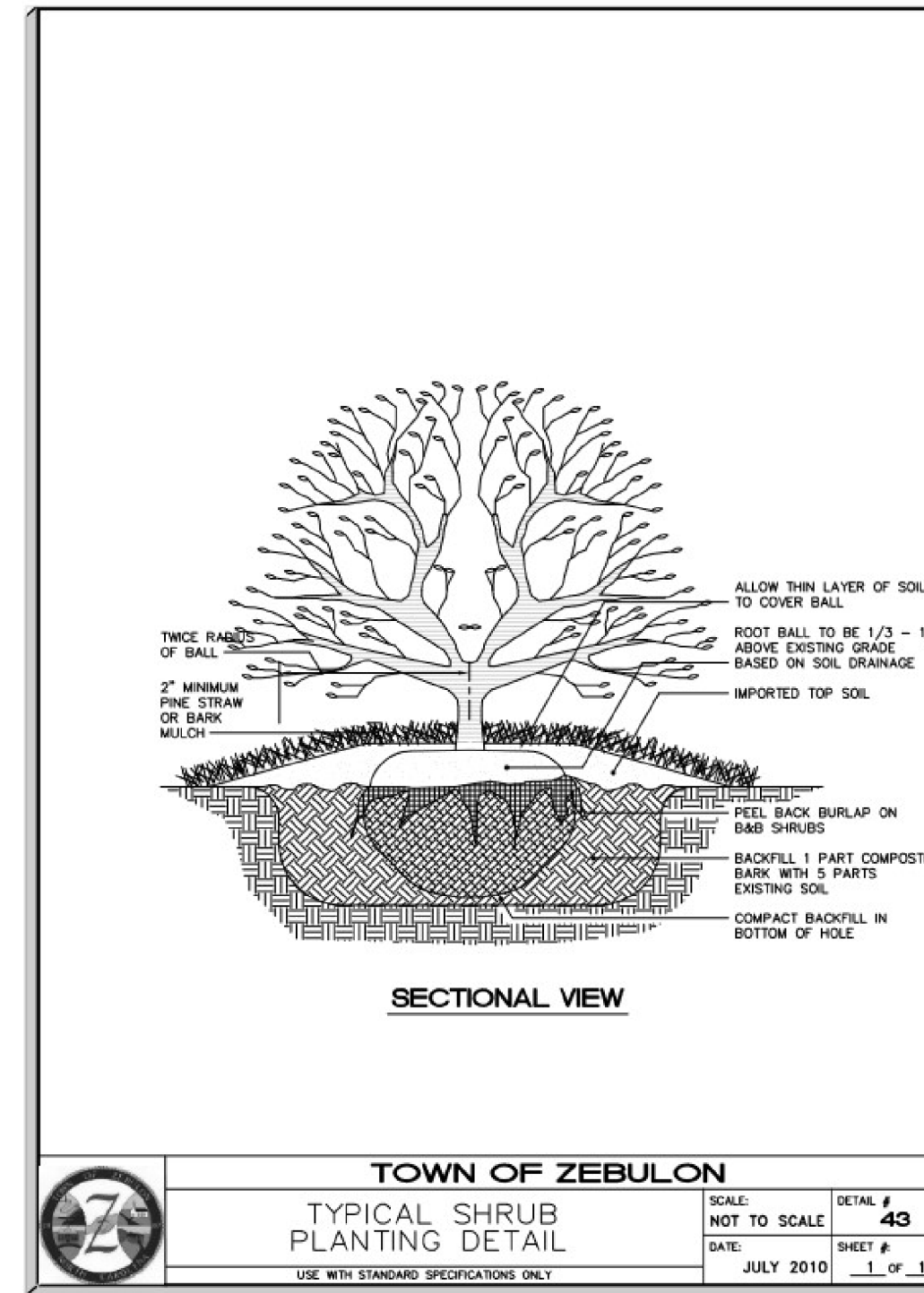
- LSR, AGS, IVS, MVS - ARE HYBRIDS OF NATIVE PLANT MATERIAL
 - CCR, JBV, HQO, CAH, IPF - ARE CULTIVARS OF NATIVE PLANT MATERIAL
 - O/C SPACING LISTED X/Y REFERS TO BUFFER USE / STREETSCAPE USE
- CONTRACTOR IS TO ENSURE THAT ALL PLANT COUNTS ARE CORRECT BEFORE INSTALLATION.

MAINTENANCE NOTES:

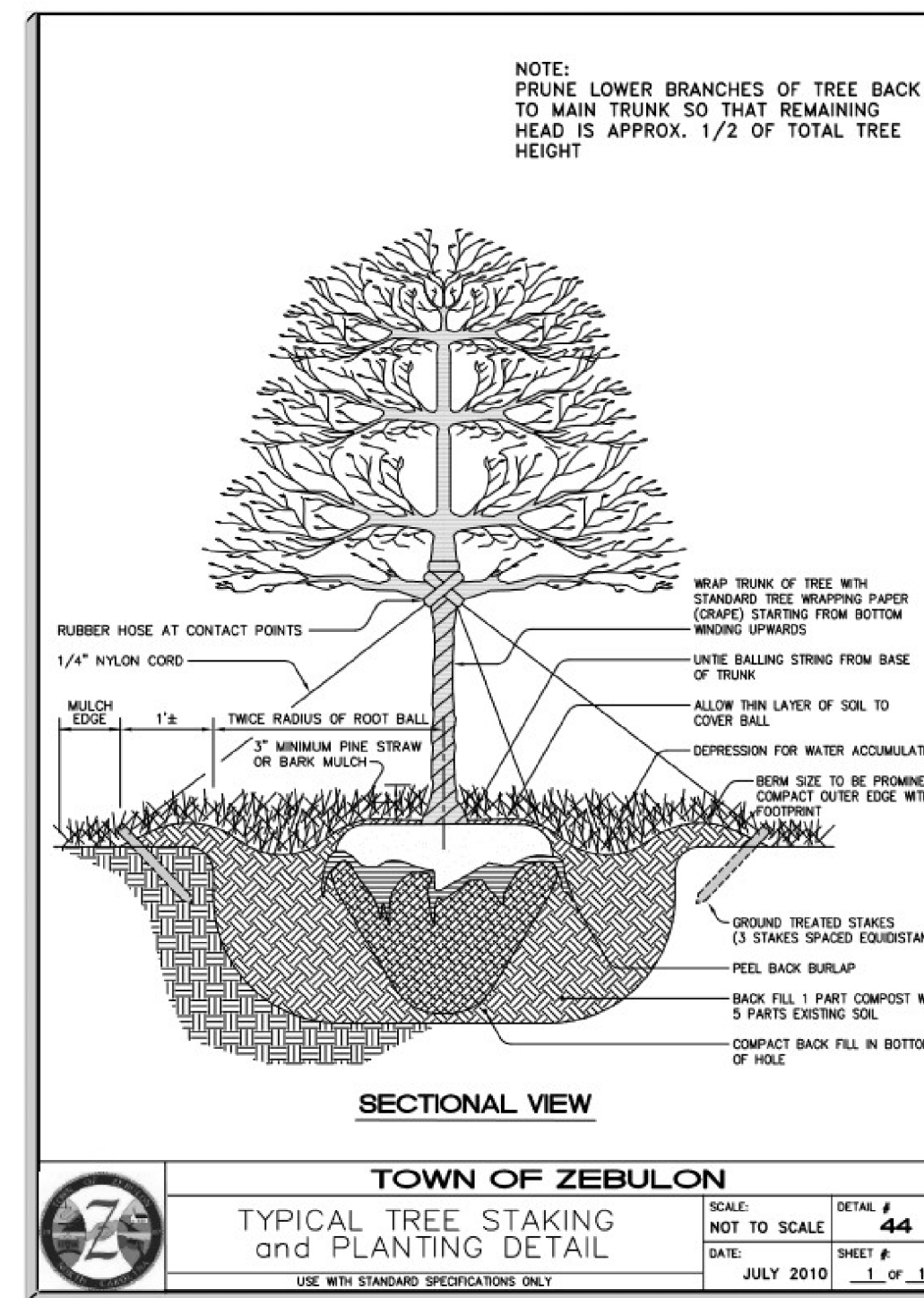
- FERTILIZE TREES TWICE PER YEAR - EARLY SPRING WITH HIGH NITROGEN FERTILIZER (A RATIO OF 4-1-1 OR MULTIPLES THEREOF), AND EARLY FALL WITH HIGH POTASSIUM AND PHOSPHOROUS FERTILIZER (A RATIO OF 1-4-4 OR MULTIPLES THEREOF). ENSURE THAT FERTILIZER IS WATERED IN. REMOVE STAKES SIX MONTHS AFTER TREES ARE PLANTED.
 - PRUNING / TRIMMING OF SHRUBS SHOULD BE DONE IN EARLY SPRING JUST PRIOR TO LEAFFING OUT. HEAD LIMBS WITH EXCESSIVE HEIGHT - REMOVE LIMB BACK TO THE CROTCH IN THE MAIN STEM. DO NOT HEDGE! REMOVE ALL DEAD WOOD OR BRANCHES.
 - HAND WEED UNLESS WEED NUMBERS BECOME EXCESSIVE. TREAT EXCESSIVE BROADLEAF WEEDS WITH AN APPLICATION OF 2.4-D AS DIRECTED ON PACKAGE. TREAT EXCESSIVE WEED GRASS PROBLEMS WITH ROUNDUP.
 - MINOR PEST INFESTATIONS CAN GO UNTREATED. EXCESSIVE INSECT AND GRUB INFESTATIONS NEED TO BE TREATED AS DIAGNOSED WITH AN APPROPRIATE PESTICIDE. EXCESSIVE FUNGAL INFESTATIONS NEED TO BE TREATED IN TWO TO THREE SUCCESSIVE TREATMENTS OVER A PERIOD OF TWO TO THREE WEEKS WITH AN APPROPRIATE FUNGICIDE.
 - PROVIDE A HALF INCH ANNUAL APPLICATION OF YARD WASTE COMPOST TO ALL LAWN AND BEDDED AREAS IN THE EARLY SPRING. RAKE OUT EVENLY BUT DO NOT TILL IN. FERTILIZE GRASS IN EARLY FALL WITH A RATIO OF 4-3-1 OR MULTIPLES THEREOF.
 - REFURBISH MULCH TWICE PER YEAR - SPRING AND FALL. DO NOT EXCEED 2" OF MULCH AND COMPOST COMBINED AT ANY ONE TIME.
 - MOWING OF GRASS SHOULD BE DONE AS NEEDED. GENERALLY HYBRID BERMUDA GRASS SHOULD BE MOWN EVERY 5-7 DAYS AT A HEIGHT OF 1".
 - EVALUATE SOIL PH AND IRON LEVELS ANNUALLY. APPLY AMMENDMENTS AS NEEDED ACCORDING TO SOIL ANALYSIS.
 - PROTECT EXISTING PLANTINGS - AVOID EXCESSIVE TRAFFIC INTO THE ZONE OF THE EXISTING PLANT MATERIAL.
 - MOW BIOTENTION SEEDED AREAS AND WILDFLOWER SEEDED AREAS ONCE A YEAR IN EARLY SPRING TO A HEIGHT OF 6 - 8". DO NOT MOW WITH A LAWN MOWER.
- NOTE: FAILURE TO MAINTAIN ALL PLANTINGS IN ACCORDANCE WITH THIS PLAN MAY CONSTITUTE A VIOLATION OF THE LAND DEVELOPMENT ORDINANCE AND MAY RESULT IN FINES.



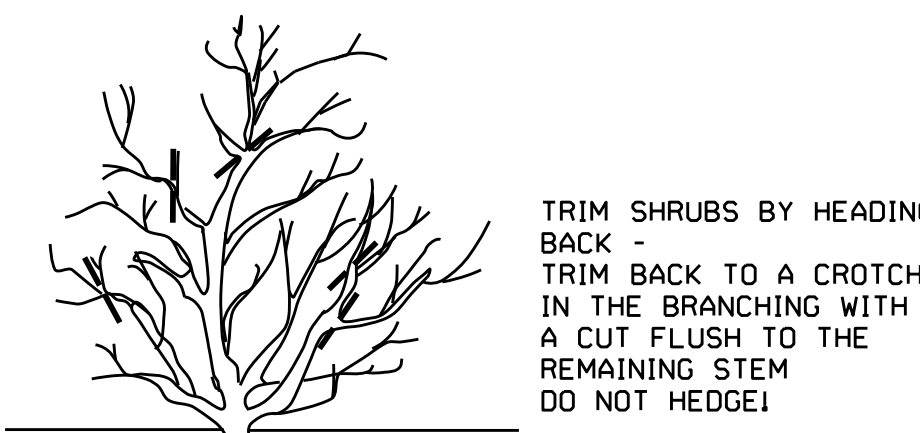
TREE PRUNING
NTS



TOWN OF ZEBULON
TYPICAL SHRUB PLANTING DETAIL
SCALE: NOT TO SCALE
DATE: JULY 2010
SHEET # 43
USE WITH STANDARD SPECIFICATIONS ONLY



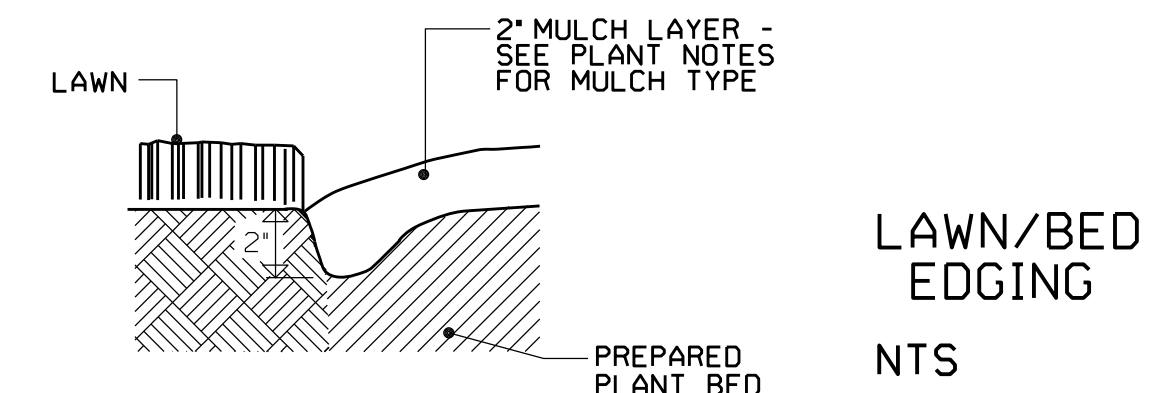
TOWN OF ZEBULON
TYPICAL TREE STAKING and PLANTING DETAIL
SCALE: NOT TO SCALE
DATE: JULY 2010
SHEET # 44
USE WITH STANDARD SPECIFICATIONS ONLY



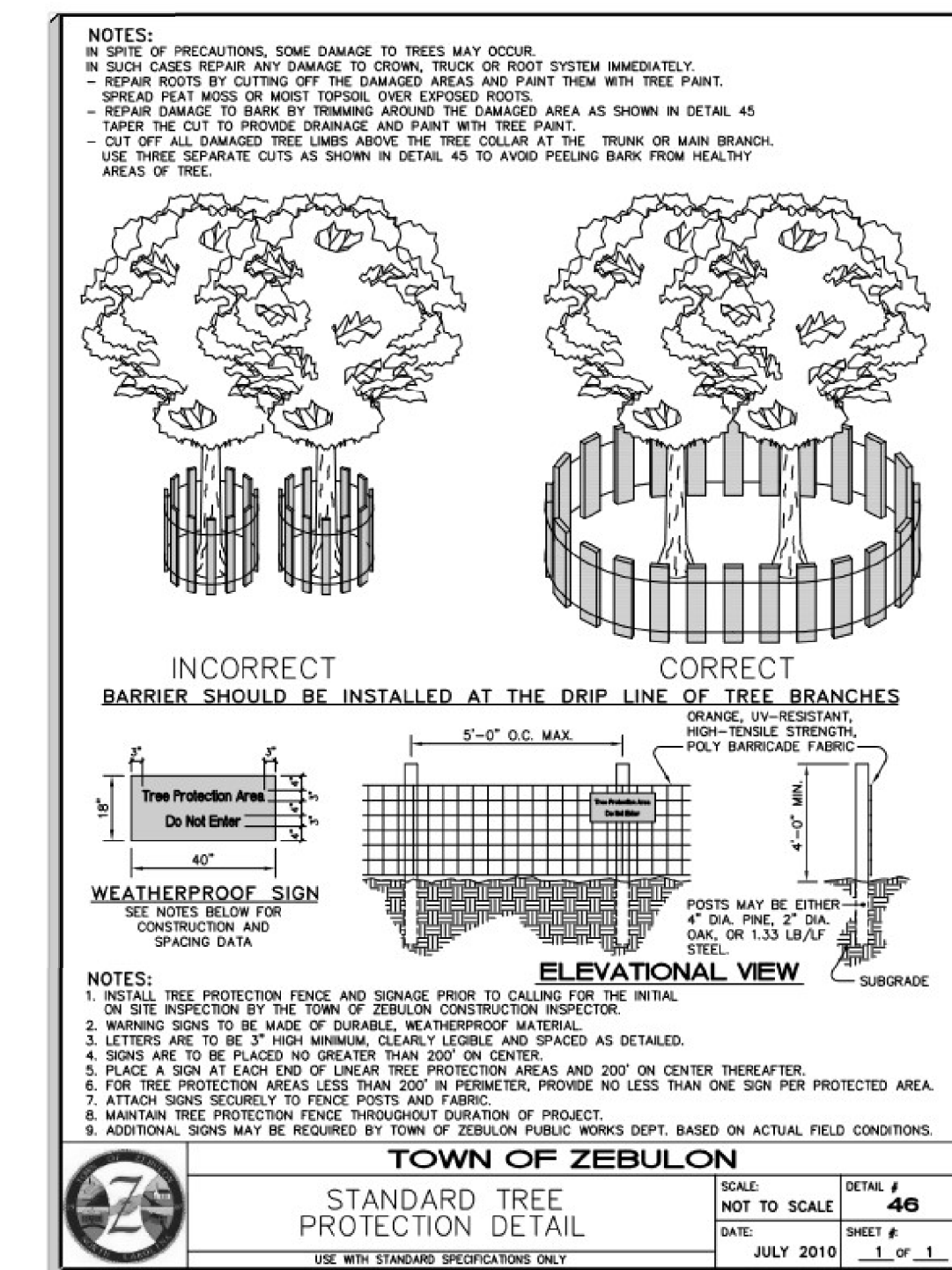
SHRUB PRUNING
NTS

PLANT NOTES

- THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES SHALL BE DETERMINED AND VERIFIED IN THE FIELD BY THE LANDSCAPE CONTRACTOR. PLANTINGS SHALL BE ADJUSTED TO AVOID CONFLICT WITH SAID UTILITIES AND WITH SITE FEATURES LIKE WALLS AND PAVING.
- SUBSOIL CONDITIONS AND SUBSURFACE DRAINAGE REQUIREMENTS OF ALL PLANT MATERIALS SHALL BE DETERMINED IN THE FIELD BY THE LANDSCAPE CONTRACTOR.
- ALL PLANT MATERIAL SHALL BEAR THE SAME RELATIONSHIP TO THE NEW GRADE THAT THEY BORE TO THE PREVIOUS GRADE.
- THE LANDSCAPE CONTRACTOR SHALL STAKE THE LOCATION OF ALL TREES AND SHRUBS AND CHECK FOR CORRECT SPACING PRIOR TO PLANTING.
- ALL PLANT MATERIALS ARE AS STATED. NO SUBSTITUTIONS WITHOUT THE CONSENT OF THE LANDSCAPE ARCHITECT.
- ALL NYLON OR POLYESTER TREATED BURLAP AND SYNTHETIC ROPING SHALL BE REMOVED ENTIRELY PRIOR TO PLANTING. ALL WIRES, ROPES AND HOSES USED TO STAKE THE TREES SHALL BE REMOVED NO LATER THAN 18 MONTHS AFTER PLANTING.
- IN AREAS TO BE GRASSED, FINISH GRADE AND RAKE SOIL SURFACE. APPLY A 2" LAYER OF LEAF OR COMPARABLE COMPOST AND TILL TO A DEPTH OF 6 INCHES. SEED WITH HULLED PRINCESS 77 HYBRID BERMUDAGRASS OR LIKE HYBRID BERMUDA AT A RATE OF 2-4 LBS OF SEED PER 1000 SQUARE FEET. THE OPTIMUM SEEDING TIME IS APRIL 1 - JUNE 1. IF PLANTING AFTER JUNE 1, CONTACT THE LANDSCAPE ARCHITECT FOR GRASSING ALTERNATIVES. ALL SEED SHALL BE CERTIFIED (BLUETAG) MEETING ALL STANDARDS OF PURITY AS REQUIRED BY THE U.S.D.A. FERTILIZER SHALL BE APPLIED TO ALL AREAS TO BE GRASSED AT A RATE OF 40 LBS PER 1,000 SQ. FT. WITH A FORMULA OF 2-8-8 OR SIMILAR COMBINATION. COVER ALL SEED WITH CLEAN GRAIN STRAW MULCH.
- THE OPTIMUM PLANTING SEASON IS OCTOBER 1 - MARCH 31 UNLESS AN ALTERNATIVE WATER SOURCE CAN BE PROVIDED. ALL PLANTS ARE TO MEET OR EXCEED THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS FOR THE SIZES SPECIFIED. ONE WEEK PRIOR TO PLANTING, BEDDED AREAS ARE TO BE WATERED AND TREATED WITH ROUNDUP, FINALE OR AN EQUALLY EFFECTIVE COMPLETE HERBICIDE. BEDS SHALL BE TILLED TO A DEPTH OF 6" AND AMENDED WITH A 2" LAYER OF LEAF OR COMPARABLE COMPOST MATERIAL ALONG WITH 0-8-8 FERTILIZER (AT A RATE OF 25 LBS PER 5,000 SQ. FT.) AND DOLOMITIC LIME (AT A RATE OF 10 LBS PER 5,000 SQ. FT.). THESE RATES ARE TO BE ADJUSTED AS PER SOIL TESTING RESULTS AS NEEDED. ALL BEDS SHALL BE MULCHED WITH A 2" THICK LAYER OF TRIPLE SHREDDED HARDWOOD MULCH. PLANTS SHALL BE WATERED THOROUGHLY IMMEDIATELY UPON INSTALLATION.
- ALL BARE AREAS OF SOIL NOT SPECIFIED FOR PLANT MATERIAL IN BEDS OR SEED MIXES ARE TO BE GRASSED. ALL SOIL SURFACES ARE TO BE COVERED WITH PLANTS, MULCH, BUILDING OR PAVING. LEAVE NO SOIL BARE. ALL PLANTINGS SHALL BE BEDDED AND MULCHED.
- THE CONTRACTOR SHALL PROVIDE AN 18 MONTH GUARANTEE ON ALL PLANT MATERIAL AND WORK.
- SEED MIXES AVAILABLE FROM ERNST CONSERVATION SEEDS - 1-800-873-3321.

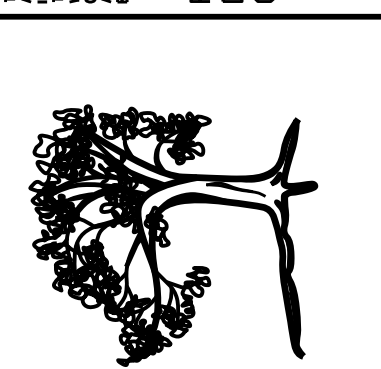


LAWN/BED EDGING
NTS



TOWN OF ZEBULON
STANDARD TREE PROTECTION DETAIL
SCALE: NOT TO SCALE
DATE: JULY 2010
SHEET # 46
USE WITH STANDARD SPECIFICATIONS ONLY

PRELIMINARY FOR CONSTRUCTION



ALISON A. POKKAT, ASLA
LANDSCAPE ARCHITECT
LAND PLANNER
(919) 363-4415
106 STEEPBANK DRIVE
CARY, NC 27518

DESIGNED: AAP
DRAWN:
APPROVED: AAP



PROJECT 23003

STORAGE MAX
PLANTING NOTES AND DETAILS
STORAGE MAX
901 PROCTOR ST., ZEBULON
WAKE COUNTY, NORTH CAROLINA

NO.	DATE	REVISIONS
1	12.28.23	COMMENT, RESP. / LAYOUT REV.

SCALE: 1"=20'
DATE: JULY 17, 2023

SHEET NO. 1
PLANTING DETAILS

LS-3

SEQUENCE NO. OF



**COTHAN
HARRIS**
ARCHITECTURE

5725 OLIVER DRIVE, STE. 101
WILMINGTON, NC 28403
910.793.3433

STORAGEMAX SELF STORAGE
PHASE I SELF-STORAGE
ROBERT HIGH DEVELOPMENT

901 PROCTOR STREET
ZEBULON, NC

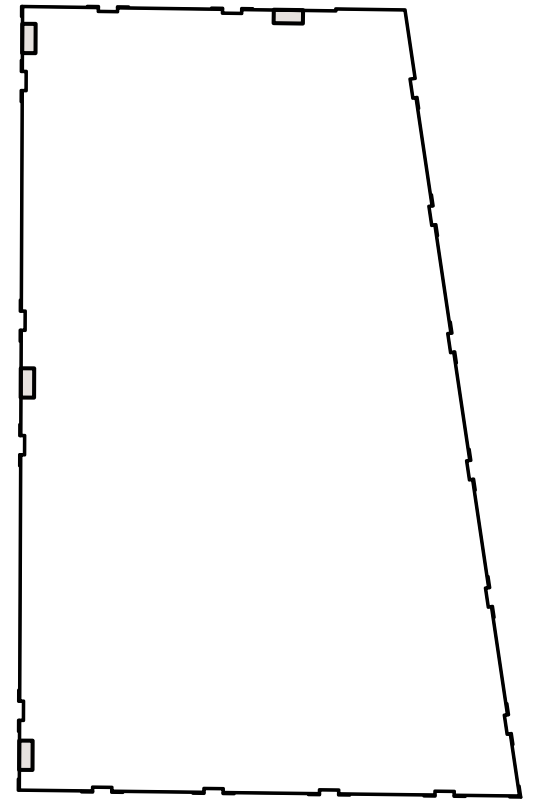
BUILDING ONE ELEVATIONS

SCHEMATIC DESIGN
DECEMBER 12, 2023

A2.0

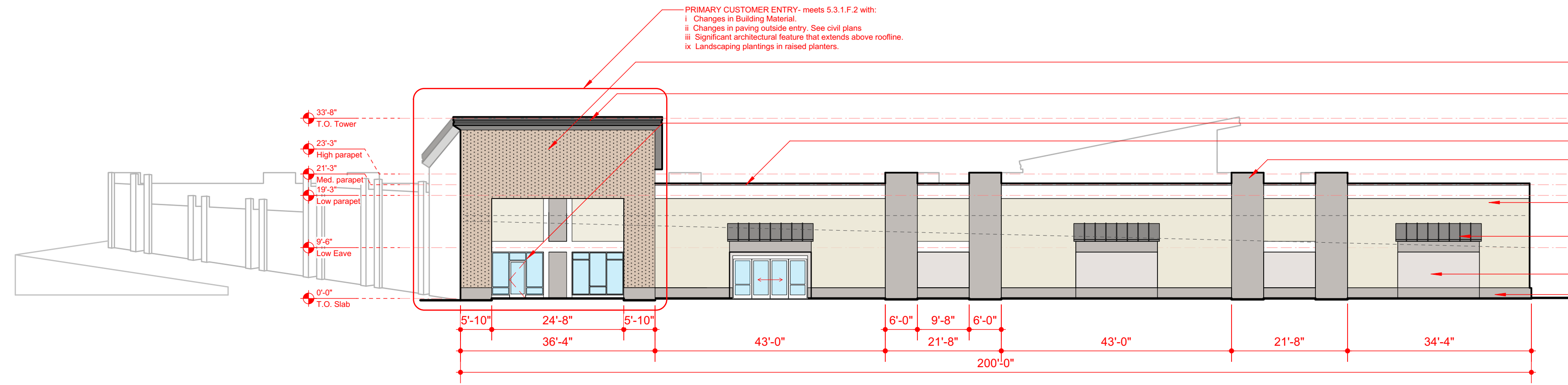
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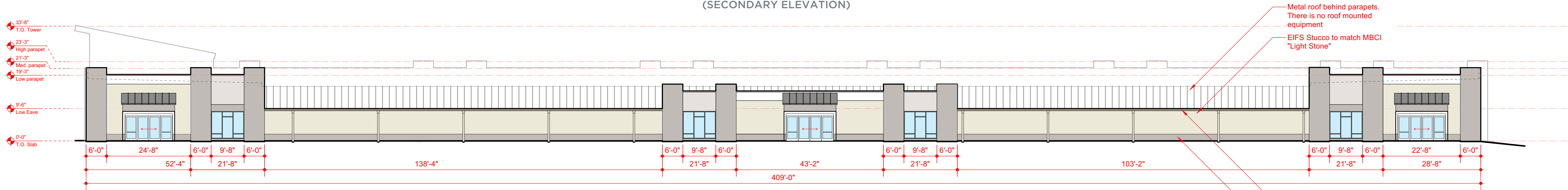
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KEY PLAN

A2.08



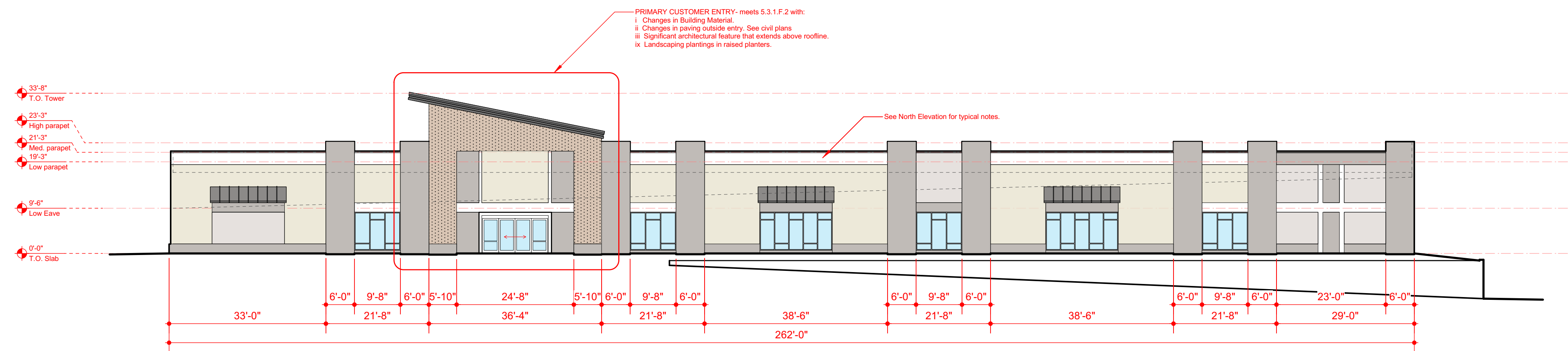
TYPICAL ELEVATION MATERIALS

- Brick veneer, Triangle Brick "Northampton WB"
- Building corner accent to match EIFS color. (Charcoal Gray)
- Storefront glass. All glass to be clear.
- Smooth metal panel cornice MBCI "Polar White"
- Masonry piers @ 2' building recess typical.
- Typical EIFS wall finish to match MBCI "Light Stone"
- Metal awning @ windows and faux windows on secondary elevations. MBCI "Charcoal Gray"
- Accent color EIFS panel @ faux windows.
- 2' high masonry base typical.

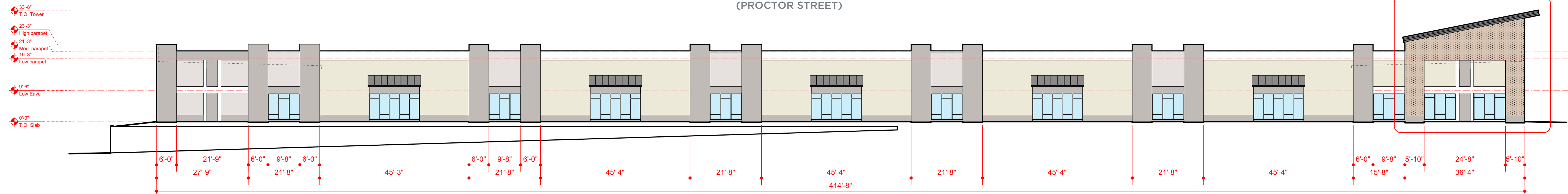


Material Legend

- EIFS #1 - Color to match MBCI "Light Stone"
- EIFS #2 - Color to match MBCI "Ash Gray"
- Metal coping, gutters, downspouts - MBCI Signature 200 "Light Stone"
- MBCI Metal Panel Signature 200 - "Polar White"
- Standing seam metal awnings- MBCI "Charcoal Gray"
- Triangle Brick veneer - "Northampton WB"



PRIMARY CUSTOMER ENTRY: meets 5.3.1.F.2 with:
 i. Changes in Building Material.
 ii. Changes in paving outside entry. See civil plans.
 iii. Significant architectural feature that extends above roofline.
 iv. Landscaping plantings in raised planters.



Owner acknowledges and agrees that Robert High Development, LLC (RHD) [and its architect Cothran Harris Architecture and engineers] have retained all ownership and other rights, title and interests in and to all conceptual, working and final drawings, plans and specifications (collectively, Plans and Specifications) relating to the Project (including without limitation architectural and engineering drawings, plans and specifications), and any and all of its proprietary rights embodied therein or related thereto. Except in connection with the construction, ownership, operation and management of the Project by Owner, this Agreement shall not grant Owner any vested right, title or interest in or to any of the Plans and Specifications or any patents (issued or pending), trademarks, service marks, trade names, copyrights, licenses, licensed or other proprietary rights of RHD or any such rights granted by third parties or other professionals to RHD.

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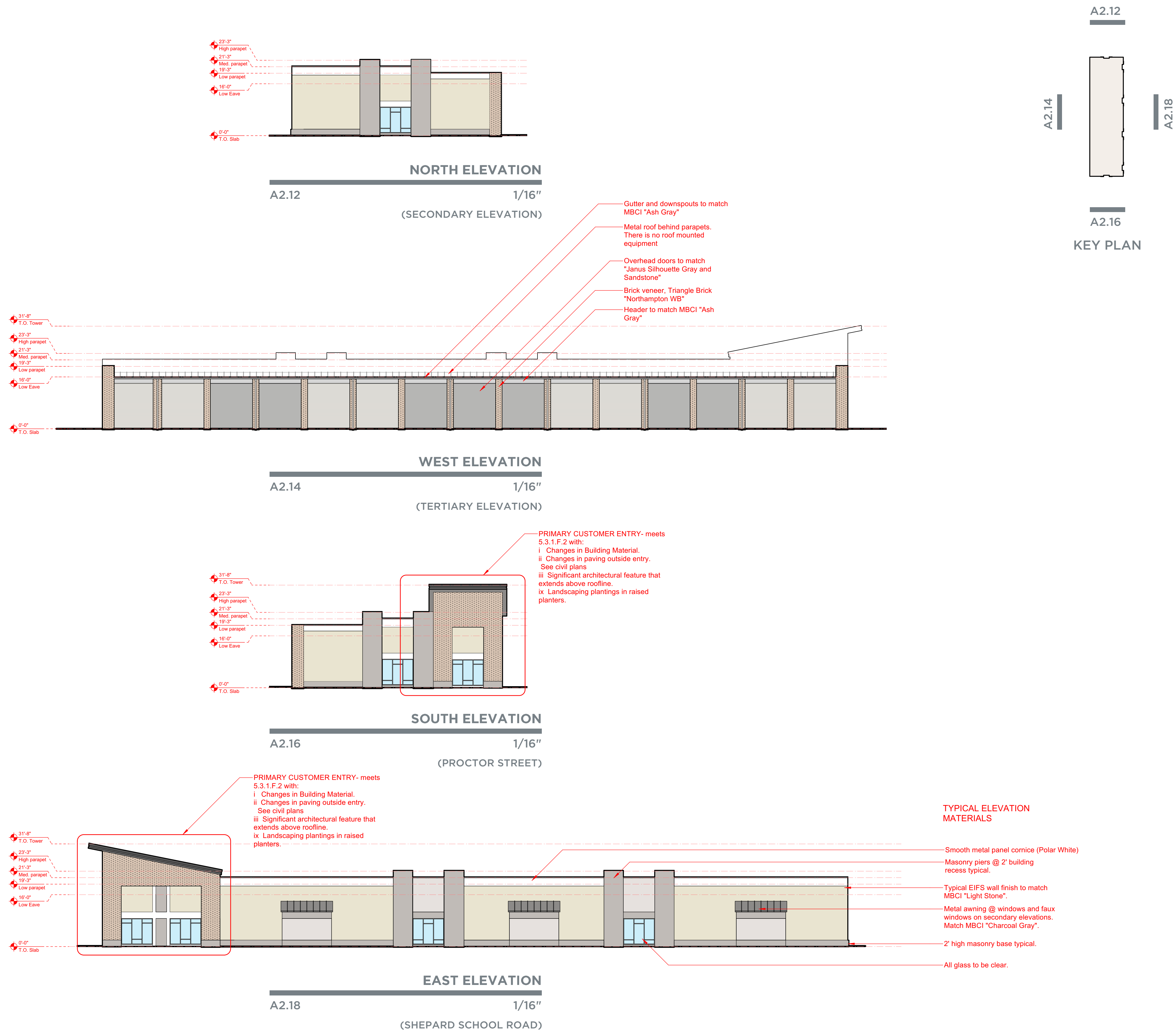


**COTHMAN
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ARCHITECTURE**
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910.793.3433

STORAGEMAX SELF STORAGE
PHASE I SELF-STORAGE
ROBERT HIGH DEVELOPMENT
901 PROCTOR STREET
ZEBULON, NC

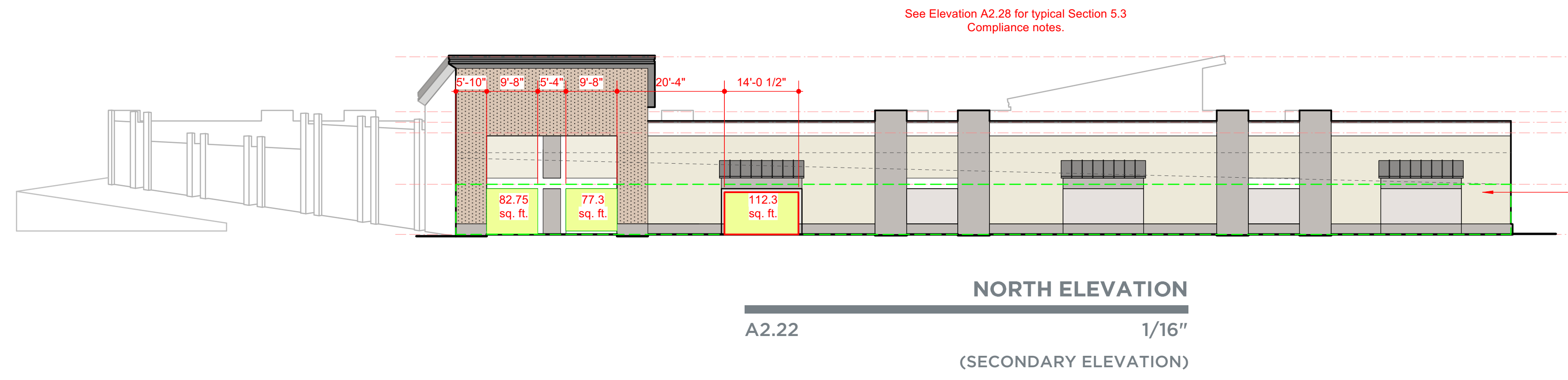
BOAT AND LS ELEVATIONS
SCHEMATIC DESIGN
DECEMBER 12, 2023

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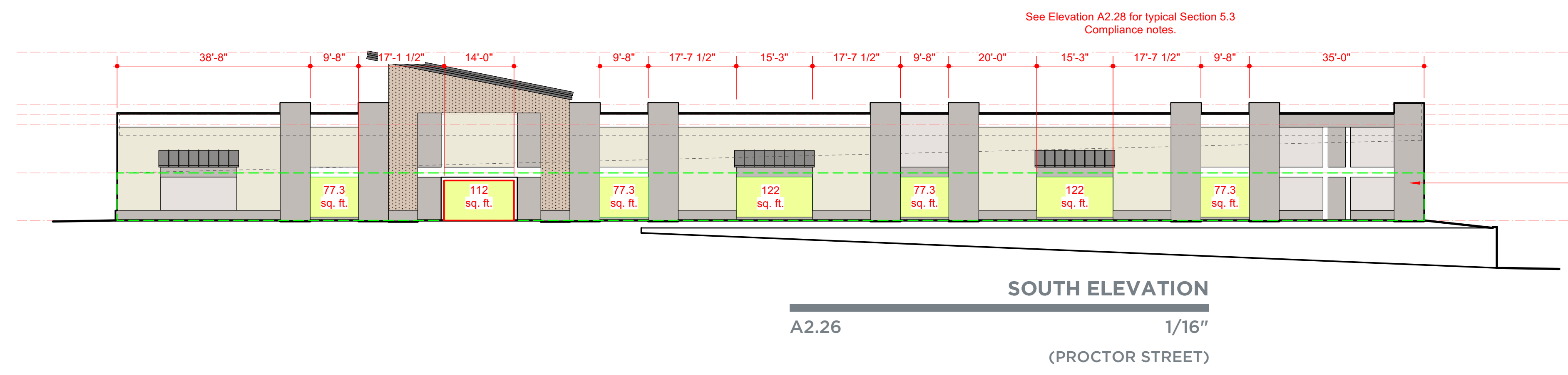
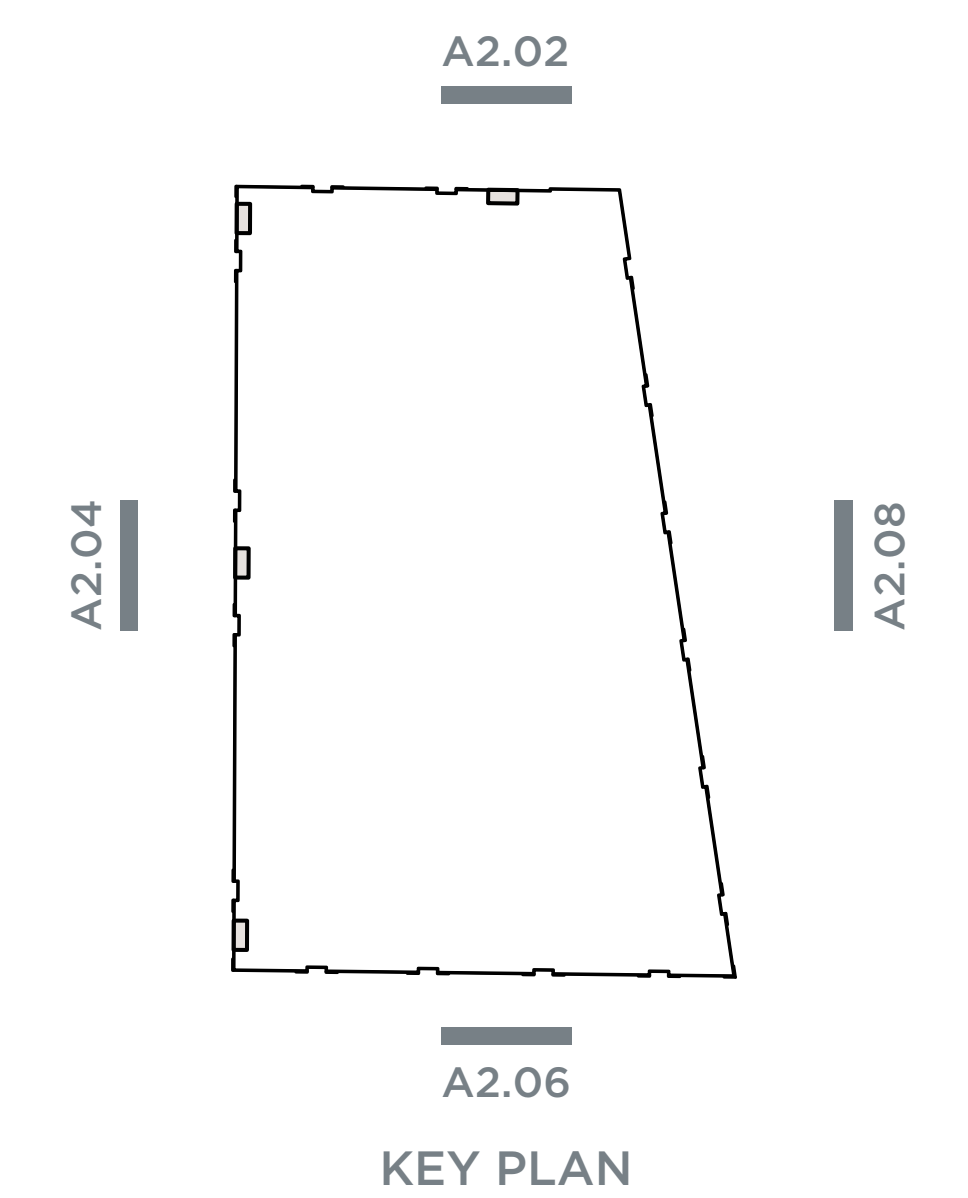


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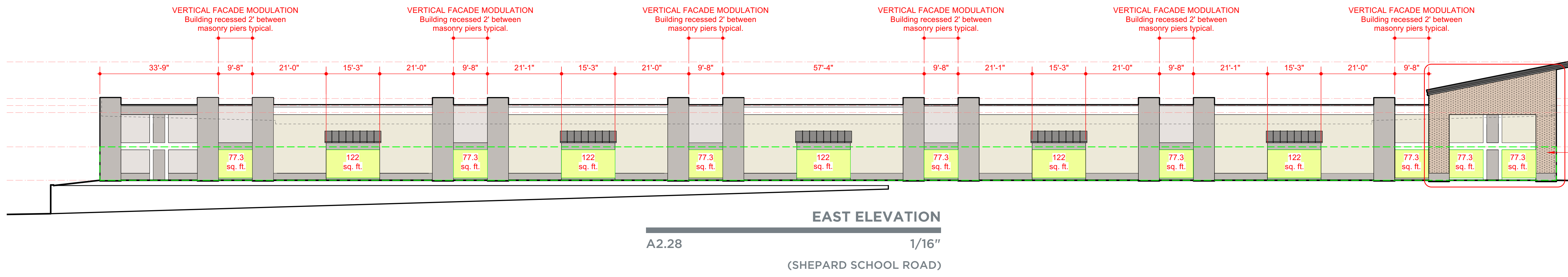


Total first floor wall area (9'-6") = 1897 sq. ft.
 10% of 1897 sq. ft. = 189.7 min. glass or faux windows.
 Actual glass or faux windows = 272.4 sq. ft.
 All glass to be clear



Total first floor wall area (9'-6") = 2,485.8 sq. ft.
 10% of 2,485.8 sq. ft. = 248.58 sq. ft. min. glass windows.
 Actual glass windows = 665.3 sq. ft.
 All glass to be clear

- PRIMARY BUILDING ENTRANCE**
- Changes in building material and color.
 - Includes significant architectural feature extending above the main roofline.
 - Changes in walk surface material. (Brick sidewalk and surround at entrance. See civil plans)



Total first floor wall area (9'-6") = 3,939.4 sq. ft.
 10% of 3,939.4 sq. ft. = 393.94 sq. ft. min. glass windows.
 Actual glass windows = 1,228 sq. ft.
 All glass to be clear

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STORAGEMAX SELF STORAGE
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ROBERT HIGH DEVELOPMENT

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ELEVATION ANNOTATIONS

SCHEMATIC DESIGN
DECEMBER 12, 2023

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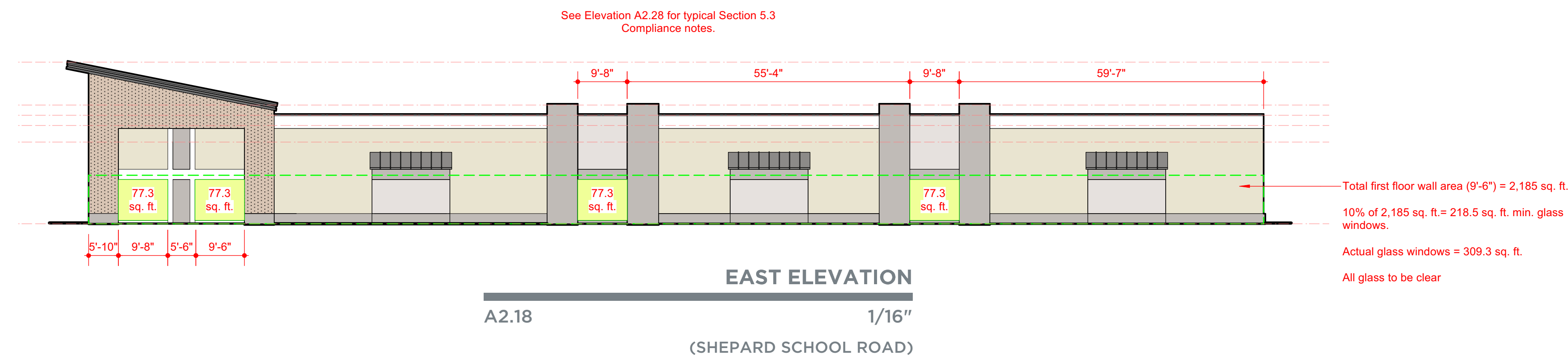
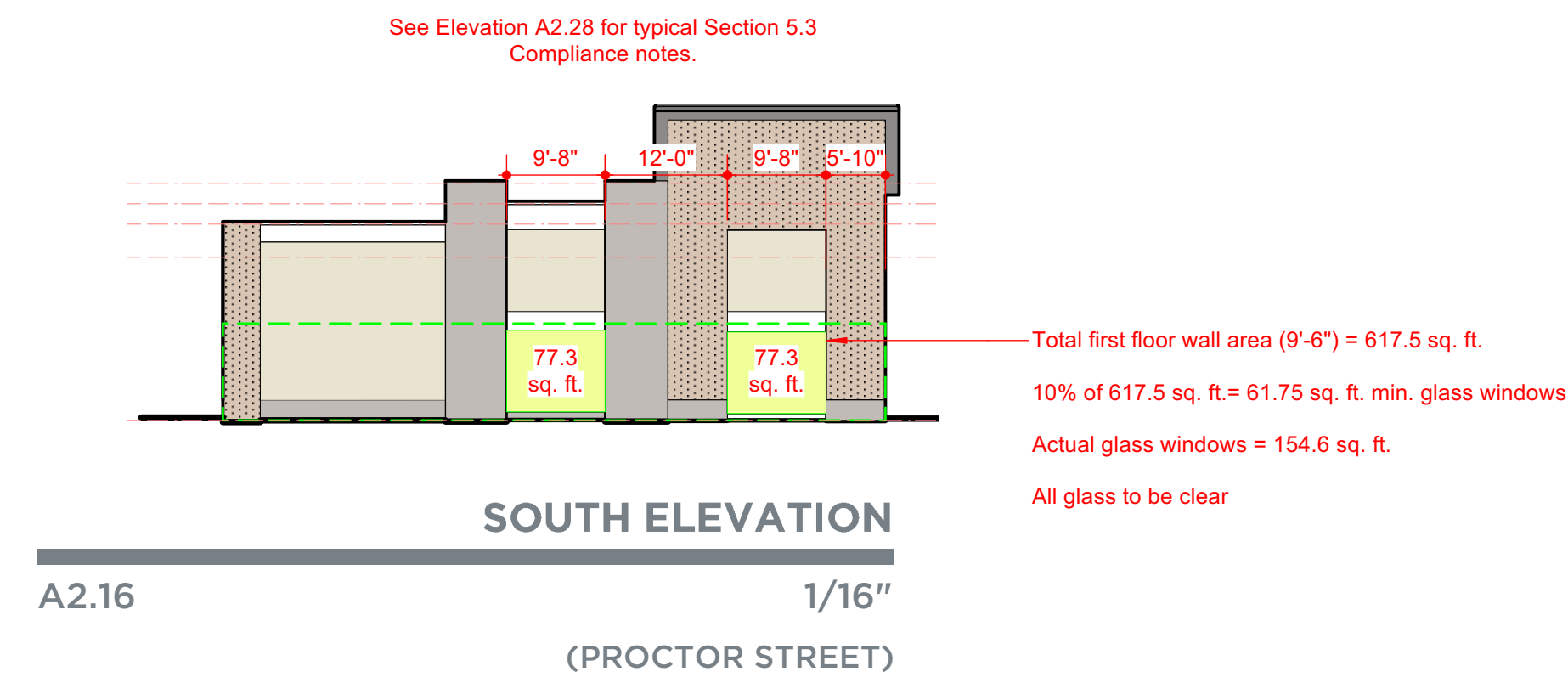
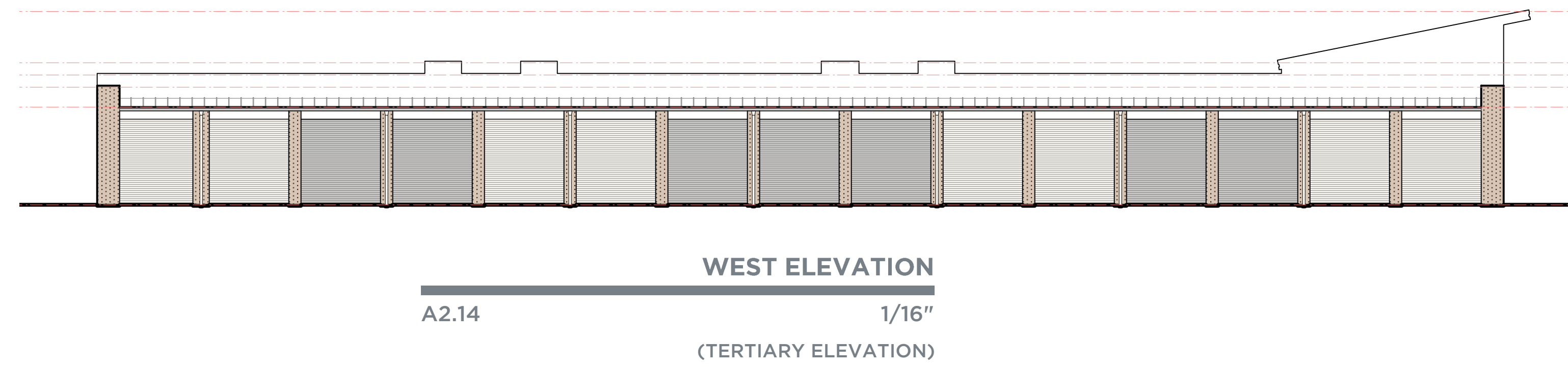
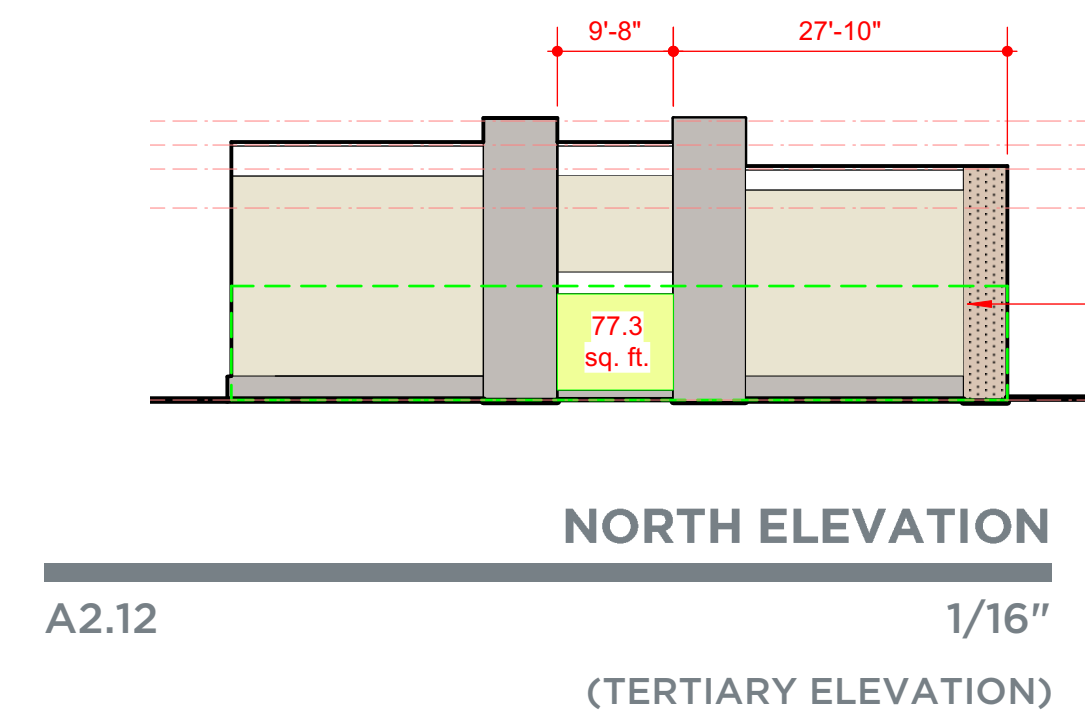
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A2.16

KEY PLAN



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