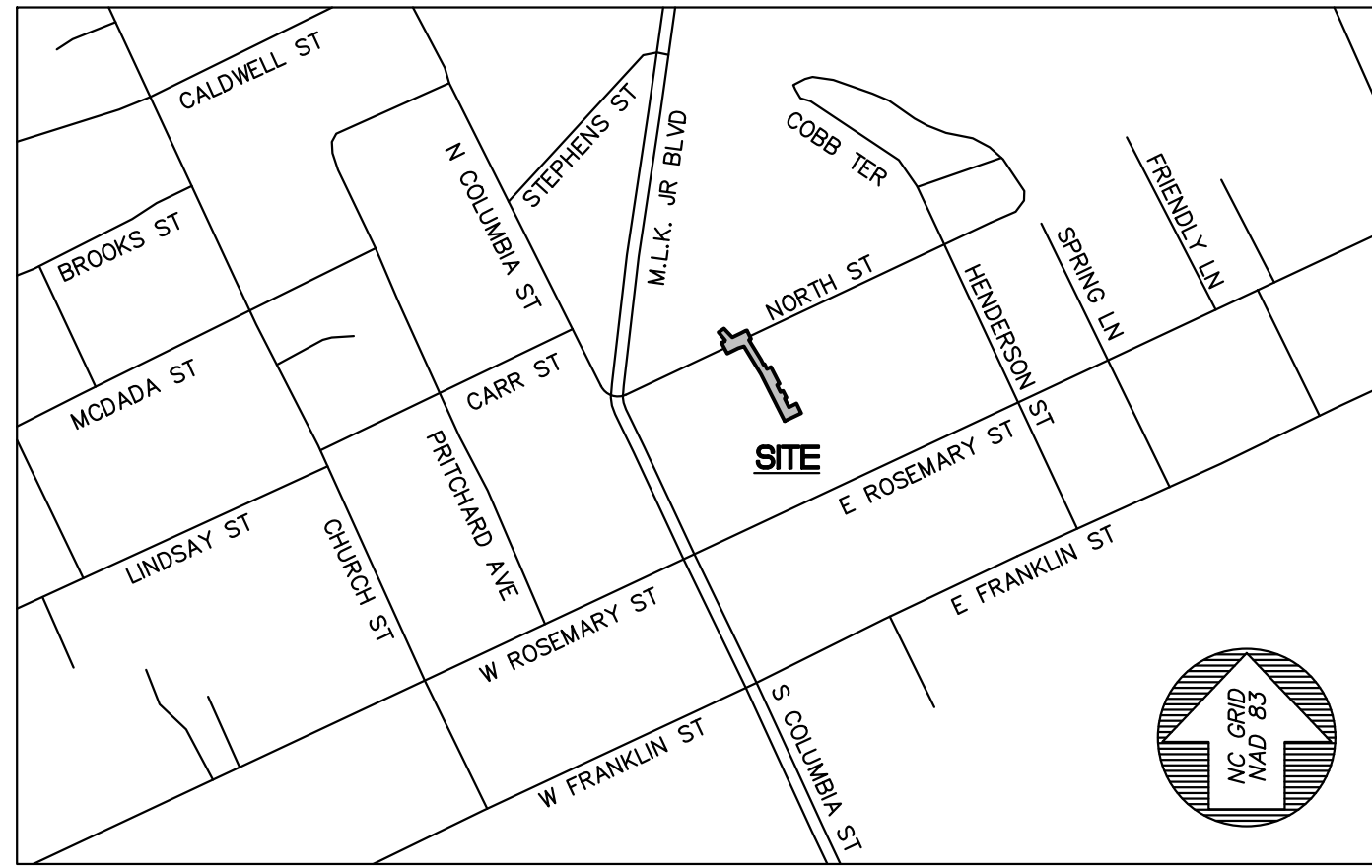


CONSTRUCTION DOCUMENTS
FOR
NORTH STREET
PIPE REPLACEMENT

CHAPEL HILL, ORANGE COUNTY, NORTH CAROLINA



VICINITY MAP
SCALE: 1"=500'

DRAWING LIST

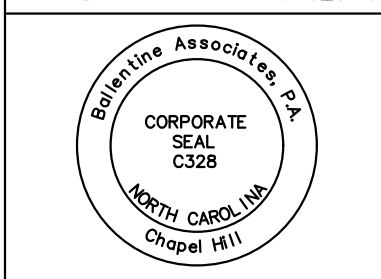
SHEET	DRAWING TITLE	LATEST ISSUE DATE
G0001	COVER SHEET	01 APR 26
C0001	AREA MAP	01 APR 26
C0101	EXISTING CONDITIONS & DEMOLITION PLAN	01 APR 26
C1101	UTILITY PLAN	01 APR 26
C1102	NORTH STREET PLAN AND PROFILES	01 APR 26
C1201	GRADING & DRAINAGE PLAN	01 APR 26
C1210	STORM DRAINAGE PLAN & PROFILE	01 APR 26
C1301	EROSION CONTROL PLAN	01 APR 26
C1401	TRAFFIC & PEDESTRIAN CONTROL PLAN	01 APR 26
C5001	SITE DETAILS	01 APR 26
C5101	UTILITY DETAILS	01 APR 26
C5102	UTILITY DETAILS	01 APR 26
C5103	UTILITY DETAILS	01 APR 26
C5201	STORM DRAINAGE DETAILS	01 APR 26
C5202	STORM DRAINAGE DETAILS	01 APR 26
C5301	EROSION CONTROL DETAILS	01 APR 26
C5401	TRAFFIC CONTROL DETAILS	01 APR 26

SITE DATA TABLE

PROJECT NAME:	NORTH STREET PIPE REPLACEMENT
PROPERTY PIN NUMBERS:	9788-37-6808, 9788-38-4062, 9788-37-4909 & 9788-38-3241
PROPERTY LOCATION:	110 & 116 NORTH STREET, CHAPEL HILL NC
PROPERTY ZONING:	R-3 & TC-2-CZD
EXISTING USE:	RESIDENTIAL
PROPOSED USE:	RESIDENTIAL
RIVER BASIN:	CAPE FEAR
WATERSHED:	JORDAN LAKE WATERSHED
RECEIVING WATER BODY:	MILL RACE BRANCH



Ballentine
Associates, PA
221 Providence Road
Chapel Hill, NC 27514
919.939.0481
ballentineassociates.com



DATE	REVISIONS	NUM
20 NOV 25	PER TOCH & O.W.A.S.A. REVIEW COMMENTS	1
26 JAN 26	PER TOCH & O.W.A.S.A. REVIEW COMMENTS	2
01 APR 26	PER TOCH & O.W.A.S.A. REVIEW COMMENTS	3

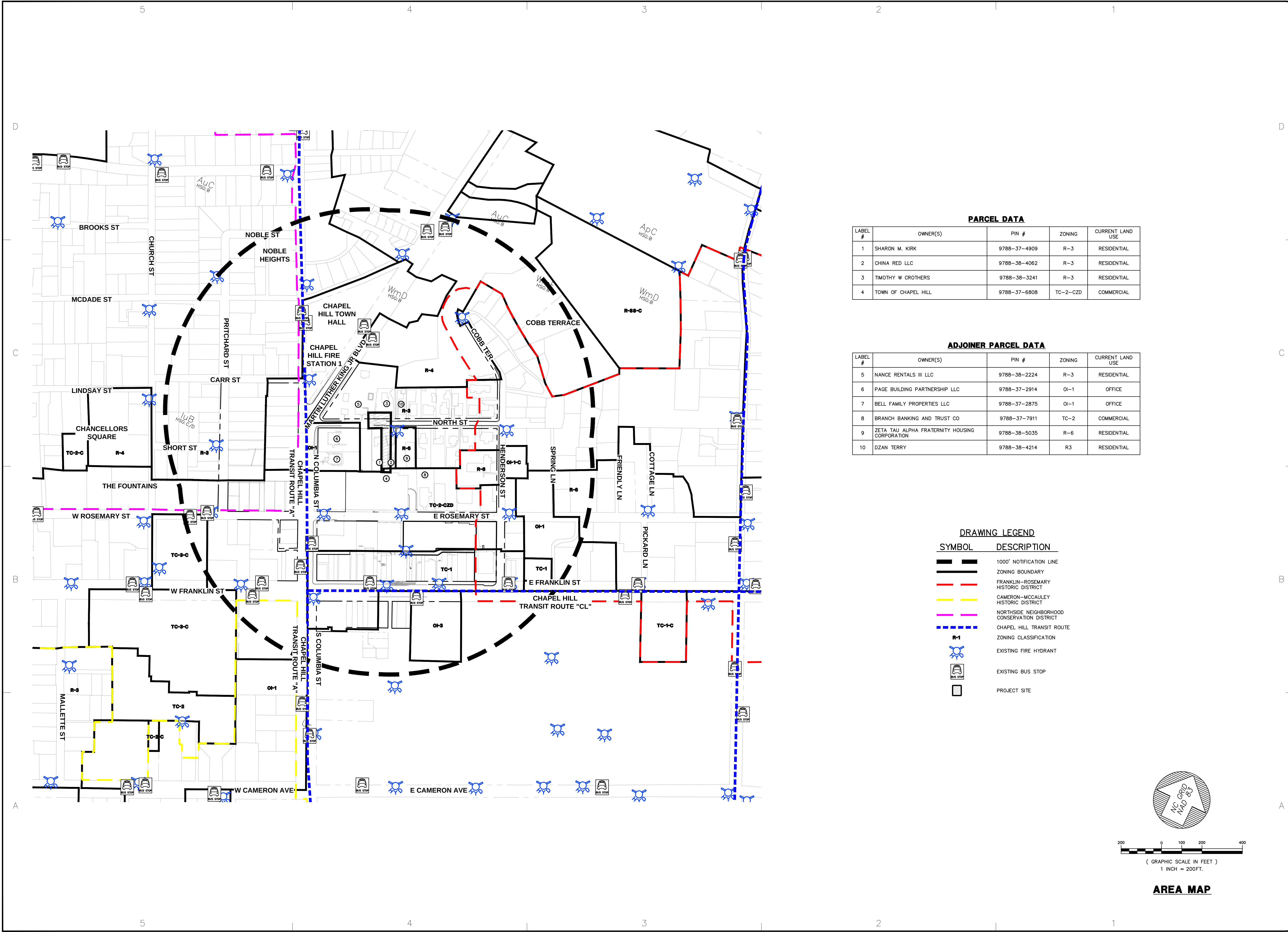
OWNER INFORMATION
TOWN OF CHAPEL HILL
6850 MILLHOUSE ROAD
CHAPEL HILL, NC 27516
OWNERS REPRESENTATIVE:
CHAD BROWN
PH: (919) 989-5122
FAX:
EMAIL: cbrown1@townofchapelhill.org

DATE	ISSUED
03 SEP 25	CD SUBMITTAL #1
20 NOV 25	CD SUBMITTAL #2
26 JAN 26	CD SUBMITTAL #3
01 APR 26	ISSUED FOR CONSTRUCTION

**NORTH STREET
PIPE REPLACEMENT
110 & 116 NORTH STREET
CHAPEL HILL, NORTH CAROLINA
CONSTRUCTION DRAWINGS**

JOB NUMBER: 119016.06
DATE: 03 SEP 25
SCALE: AS NOTED
DRAWN BY: R.M.N.
REVIEWED BY: K.W.J.

**SHEET
G0001**

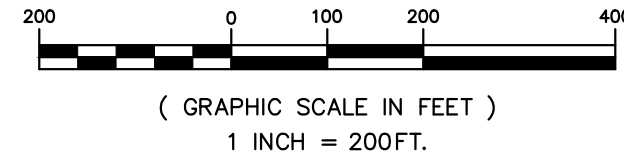
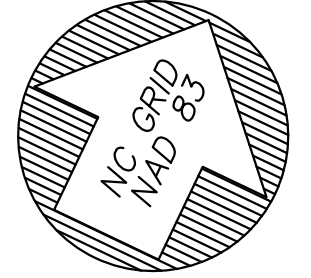


PARCEL DATA				
LABEL #	OWNER(S)	PIN #	ZONING	CURRENT LAND USE
1	SHARON M. KIRK	9788-37-4909	R-3	RESIDENTIAL
2	CHINA RED LLC	9788-38-4062	R-3	RESIDENTIAL
3	TIMOTHY W CROTHERS	9788-38-3241	R-3	RESIDENTIAL
4	TOWN OF CHAPEL HILL	9788-37-6808	TC-2-CZD	COMMERCIAL

ADJOINER PARCEL DATA				
LABEL #	OWNER(S)	PIN #	ZONING	CURRENT LAND USE
5	NANCE RENTALS III LLC	9788-38-2224	R-3	RESIDENTIAL
6	PAGE BUILDING PARTNERSHIP LLC	9788-37-2914	OI-1	OFFICE
7	BELL FAMILY PROPERTIES LLC	9788-37-2875	OI-1	OFFICE
8	BRANCH BANKING AND TRUST CO	9788-37-7911	TC-2	COMMERCIAL
9	ZETA TAU ALPHA FRATERNITY HOUSING CORPORATION	9788-38-5035	R-6	RESIDENTIAL
10	DZAN TERRY	9788-38-4214	R3	RESIDENTIAL

DRAWING LEGEND

SYMBOL	DESCRIPTION
	1000' NOTIFICATION LINE
	ZONING BOUNDARY
	FRANKLIN-ROSEMARY HISTORIC DISTRICT
	CAMERON-MCCAULEY HISTORIC DISTRICT
	NORTHSIDE NEIGHBORHOOD CONSERVATION DISTRICT
	CHAPEL HILL TRANSIT ROUTE
	ZONING CLASSIFICATION
	EXISTING FIRE HYDRANT
	EXISTING BUS STOP
	PROJECT SITE



AREA MAP

Ballentine Associates, PA
919.928.0481
ballentineassociates.com

REVISIONS	DATE
PER TOCH & O.W.A.S.A. REVIEW COMMENTS	20 NOV 25
PER TOCH & O.W.A.S.A. REVIEW COMMENTS	26 JAN 26
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OWNER INFORMATION
TOWN OF CHAPEL HILL
6850 MILLHOUSE ROAD
CHAPEL HILL, NC 27516
OWNERS REPRESENTATIVE:
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PH (919) 989-5122
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ISSUED	DATE
CD SUBMITTAL #1	03 SEP 25
CD SUBMITTAL #2	20 NOV 25
CD SUBMITTAL #3	26 JAN 26
ISSUED FOR CONSTRUCTION	01 APR 26

**NORTH STREET
PIPE REPLACEMENT
110 & 116 NORTH STREET
CHAPEL HILL, NORTH CAROLINA**

CONSTRUCTION DRAWINGS

JOB NUMBER: 119016.06
DATE: 03 SEP 25
SCALE: AS NOTED
DRAWN BY: R.M.N.
REVIEWED BY: K.W.J.

**SHEET
C0001**

OCSW CONSTRUCTION WASTE REQUIREMENTS:

- ALL EXISTING STRUCTURES 500 SQUARE FEET AND LARGER SHALL BE ASSESSED PRIOR TO THE ISSUANCE OF A DEMOLITION PERMIT TO ENSURE COMPLIANCE WITH THE COUNTY'S REGULATED RECYCLABLE MATERIALS ORDINANCE (RMO) AND TO ASSESS THE POTENTIAL FOR DECONSTRUCTION AND/OR THE REUSE OF SALVAGEABLE MATERIALS. CONTACT THE ORANGE COUNTY SW ENFORCEMENT OFFICER AT 919-968-2788 TO ARRANGE FOR THE ASSESSMENT.
- PURSUANT TO THE COUNTY'S RMO, CLEAN WOOD WASTE, SCRAP METAL, AND CORRUGATED CARDBOARD PRESENT IN CONSTRUCTION OR DEMOLITION WASTE MUST BE RECYCLED.
- PURSUANT TO THE COUNTY'S RMO, ALL HAULERS OF MIXED CONSTRUCTION AND DEMOLITION WASTE WHICH INCLUDES ANY REGULATED RECYCLABLE MATERIALS SHALL BE LICENSED BY ORANGE COUNTY.
- PRIOR TO ANY DEMOLITION OR CONSTRUCTION ACTIVITY ON THE SITE, THE APPLICANT SHALL HOLD A PRE-DEMOLITION/PRE-CONSTRUCTION CONFERENCE WITH SOLID WASTE STAFF. THIS MAY BE THE SAME PRE-CONSTRUCTION MEETING HELD WITH OTHER DEVELOPMENT/ENFORCEMENT OFFICIALS.
- THE PRESENCE IF ANY ASBESTOS CONTAINING MATERIALS ("ACM") AND/OR OTHER HAZARDOUS MATERIALS SHALL BE HANDLED IN ACCORDANCE WITH ANY AND ALL LOCAL, STATE, AND FEDERAL REGULATIONS AND GUIDELINES.

DEMOLITION CONSTRUCTION SEQUENCE:

- OBTAIN ZONING COMPLIANCE, DEMOLITION AND GRADING PERMITS.
- HOLD PRE-DEMOLITION/PRE-CONSTRUCTION CONFERENCE AS NOTED IN GENERAL DEMOLITION NOTES.
- INSTALL STANDARD TREE PROTECTION FENCE.
- INSTALL REMAINING EROSION CONTROL MEASURES PER CONSTRUCTION SEQUENCE ON SHEET 1301.
- CALL TOWN OF CHAPEL HILL URBAN FORESTER AT (919) 969-5114 FOR AN INSPECTION OF TREE PROTECTION FENCE.
- IF TREE PROTECTION FENCING IS APPROVED, PROCEED WITH DEMOLITION AS SHOWN ON THIS SHEET.

TREE PROTECTION NOTES:

- TREE PROTECTION FENCING AS SHOWN ON THIS PLAN SHALL BE INSTALLED AND INSPECTED BY THE TOWN PRIOR TO ANY DEMOLITION ACTIVITY OR LAND DISTURBANCE.
- A PRE-CONSTRUCTION CONFERENCE WILL BE HELD WITH THE TOWN'S URBAN FORESTER PRIOR TO BEGINNING SITE WORK.
- ANY TREE ROOTS EXPOSED BY CONSTRUCTION WILL BE SEVERED CLEANLY WITH AN APPROPRIATE PRUNING TOOL.
- THE SOIL WITHIN THE CRITICAL ROOT ZONES OF EXISTING TREES SHALL NOT BE DRIVEN ON OR OTHERWISE DISTURBED DURING THE INSTALLATION OF LANDSCAPING.
- A LANDSCAPE PROTECTION SUPERVISOR WHO IS REGISTERED WITH THE TOWN OF CHAPEL HILL WILL BE PRESENT ON SITE AT ALL TIMES WHEN THE FOLLOWING ACTIVITIES ARE TAKING PLACE: CLEARING, GRUBBING, EXCAVATION, GRADING, TRENCHING, MOVING OF SOIL, INSTALLATION AND REMOVAL OF TREE PROTECTION FENCING, AND THE DELIVERY TRANSPORTING AND PLACEMENT OF CONSTRUCTION MATERIALS AND EQUIPMENT.

TREE SUMMARY

	RARE	SPECIMEN	TOTAL
EXISTING TREES	8	9	17
TREES TO BE REMOVED	1	6	7

TREE LEGEND:

- RARE DECIDUOUS TREE SHOWING CRITICAL ROOT ZONE
- SPECIMEN DECIDUOUS TREE SHOWING CRITICAL ROOT ZONE
- RARE CONIFEROUS TREE SHOWING CRITICAL ROOT ZONE
- SPECIMEN CONIFEROUS TREE SHOWING CRITICAL ROOT ZONE

TREE SUMMARY

Toq	Trunk	NAME	TYPE	KEEP/DEMO
1	10"	DOGWOOD	SPECIMEN	KEEP
2	10"	DOGWOOD	SPECIMEN	KEEP
3	6"	HOLLY	SPECIMEN	KEEP
4	8"	DOGWOOD	SPECIMEN	KEEP
5	8"	DOGWOOD	SPECIMEN	KEEP
6	8"	HOLLY	SPECIMEN	KEEP
7	16"	HOLLY	RARE	KEEP
8	30"	WALNUT	RARE	KEEP
9	16"	HICKORY	SPECIMEN	KEEP
10	18"	OAK	SPECIMEN	KEEP
11	8"	PRIVET	SPECIMEN	KEEP
12	28"	CEDAR	RARE	KEEP
13	26"	PECAN	RARE	KEEP
14	10"	MULBERRY	INVASIVE	KEEP
15	6"	MULBERRY	INVASIVE	KEEP
16	6"	MULBERRY	INVASIVE	KEEP
17	6"	MULBERRY	INVASIVE	KEEP
18	6"	MULBERRY	INVASIVE	KEEP
19	4"	MULBERRY	INVASIVE	KEEP
20	10"	MULBERRY	INVASIVE	KEEP
21	4"	MULBERRY	INVASIVE	KEEP
22	12"	PECAN	RARE	KEEP
23	14"	MULBERRY	INVASIVE	KEEP
24	10"	CEDAR	RARE	KEEP
25	16"	CEDAR	RARE	KEEP
26	16"	MULBERRY	INVASIVE	KEEP
27	16"	MULBERRY	INVASIVE	KEEP
28	18"	PECAN	RARE	KEEP

DRAWING LEGEND

SYMBOL/ABBREVIATION

EXISTING	DEMO	DESCRIPTION
---	---	PROPERTY LINE
---	---	RIGHT-OF-WAY LINE
---	---	ADJOINER PROPERTY LINE
---	---	LIMITS OF DISTURBANCE
SD	SD	STORM DRAIN LINE
W	W	WATER LINE
SS	SS	SANITARY SEWER LINE
UE	UE	UNDERGROUND ELECTRIC LINE
OHE	OHE	OVERHEAD ELECTRIC LINE
G		GAS LINE
FO		FIBER OPTIC LINE
		TREE LINE
		RETAINING WALL
		MAJOR CONTOUR
		MINOR CONTOUR
		PHASE 1 MAJOR CONTOUR (FOR REFERENCE ONLY)
		PHASE 1 MINOR CONTOUR (FOR REFERENCE ONLY)
		SOIL BOUNDARY
		BOREHOLE
		EXISTING IRON PIPE
		SIGN
		CATCH BASIN
		DROP INLET
		WATER VALVE
		FIRE HYDRANT
		SANITARY SEWER MANHOLE
		SANITARY SEWER CLEANOUT
		POWER POLE
		LIGHT POLE
		ELECTRIC BOX
		HVAC UNIT
		GAS METER
		GAS VALVE
		TELEPHONE VAULT
		FIBER OPTIC MARKER
		DECIDUOUS TREE
		CONIFEROUS TREE
		STONE CULVERT TO BE REMOVED
		STONE CULVERT TO BE FILLED WITH FLOWABLE FILL
		CMP PIPE TO BE FILLED WITH SOIL

NOTES

- EXISTING CONDITIONS SHOWN ARE BASED UPON SITE SURVEYS PERFORMED BY BALLENTINE ASSOCIATES, KCI ASSOCIATES AND ORANGE COUNTY GIS DATA.
- THE PROPERTY DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD AREA AS SHOWN ON FLOOD INSURANCE RATE MAP 3710978800K.
- CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (1-800-632-4949). LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL VERIFY THE DEPTH AND LOCATION OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
- THIS PLAN IS DIAGRAMMATIC AND REPRESENTS THE APPROXIMATE LOCATION OF UTILITIES UNLESS SPECIFICALLY DIMENSIONED. THE CONTRACTOR SHALL COORDINATE THE ACTUAL LOCATION OF UTILITIES TO AVOID CONFLICTS AND MEET MINIMUM SIZE, SLOPE, AND CODE REQUIREMENTS.
- ALL STEEP SLOPES ARE EITHER LESS THAN 400 SQ FT OR ARE ASSOCIATED WITH ROADWAY, PARKING LOTS OR DRIVEWAYS WHICH ARE EXCLUDED FROM ANY SPECIAL CONSTRUCTION TECHNIQUES.
- SEE AREA MAP, C0001, FOR NEAREST CHAPEL HILL TRANSIT ROUTES.
- LIMITS OF DISTURBANCE: 10,349 SF (0.24 AC)

DEMOLITION NOTES

- PRIOR TO DEMOLITION, CONTRACTOR SHALL HAVE NORTH CAROLINA 811 (1-800-632-4949) LOCATE ALL EXISTING UTILITIES. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS.
- PRIOR TO DEMOLITION, CONTRACTOR IS RESPONSIBLE FOR DETERMINING IF ASBESTOS REMEDIATION IS REQUIRED, AND IF SO, CONTRACTOR SHALL PROVIDE ASBESTOS REMEDIATION IN ACCORDANCE WITH FEDERAL, STATE & LOCAL REGULATIONS.
- OPEN BURNING OF TREES, LIMBS, STUMPS AND CONSTRUCTION DEBRIS IN ASSOCIATION WITH THIS DEVELOPMENT IS PROHIBITED.
- ANY EXISTING WATER AND SEWER SERVICES AND CLEANOUTS TO BE REMOVED, SHALL BE ABANDONED IN ACCORDANCE WITH OWASA REQUIREMENTS.
- ANY EXISTING GAS, ELECTRIC, FIBER AND ANY OTHER UTILITIES SERVICING THE STRUCTURE TO BE DEMOLISHED SHALL BE FIELD LOCATED AND TERMINATED IN ACCORDANCE WITH STATE & LOCAL REGULATIONS, AND IN ACCORDANCE WITH THE RESPECTIVE PROVIDER'S STANDARDS & SPECIFICATIONS.
 - CIVIL ENGINEER AND OWNER'S REPRESENTATIVE
 - TOWN OF CHAPEL HILL URBAN FORESTER: (919) 969-5114
 - TOWN OF CHAPEL HILL STORMWATER DIVISION: (919) 969-7246
 - ORANGE COUNTY SOLID WASTE STAFF: (919) 968-2788
 - NCDEQ DIVISION OF LAND QUALITY RALEIGH REGIONAL OFFICE: (919) 791-4200
- IN ALL AREAS WHERE IMPERVIOUS COVER IS SHOWN TO BE REMOVED AND RESTORED WITH PERVIOUS COVER, THE FOLLOWING STEPS SHALL BE TAKEN:
 - REMOVE ALL ASPHALT CONCRETE, BEDDING MATERIALS, GRAVEL, DEBRIS, BUILDING MATERIALS, ETC.
 - RIP AND AERATE TO A DEPTH OF 18 INCHES BELOW ORIGINAL GRADE, UNLESS WITHIN THE CRITICAL ROOT ZONE OF A TREE TO BE PRESERVED. IN THAT CASE, LIMIT RIPPING TO A DEPTH OF 6".
 - PLACE 4-6 INCHES OF TOPSOIL (TO FINISHED GRADE) AND INSTALL PLANTINGS AND/OR SEED DISTURBED AREA ACCORDING TO LANDSCAPE PLAN. DO NOT COMPACT TOPSOIL.
- DURING DEMOLITION AND/OR CONSTRUCTION, ALL ASPECTS OF CHAPTER 14 OF THE NC FIRE PREVENTION SHALL BE FOLLOWED. THE OWNER/DEVELOPER SHALL DESIGNATE ONE PERSON TO BE THE FIRE PREVENTION PROGRAM SUPERINTENDENT WHO SHALL BE RESPONSIBLE FOR ENFORCING CHAPTER 14 OF THE NCFCP AND THE ON-SITE FIRE PREVENTION PROGRAM AND ENSURE THAT IT IS CARRIED OUT THROUGH COMPLETION OF THE PROJECT.
- DURING CONSTRUCTION, FIREFIGHTING VEHICLE ACCESS SHALL BE PROVIDED. TEMPORARY STREET SIGNS SHALL BE INSTALLED AT EACH STREET INTERSECTION WHEN CONSTRUCTION ALLOWS THE PASSAGE OF VEHICLES. SIGNS SHALL BE OF AN APPROVED SIZE, WEATHER RESISTANT AND MAINTAINED UNTIL REPLACED BY PERMANENT SIGNS.
- CONSTRUCTION OPERATIONS SHOULD BE LIMITED TO 7:00 AM TO 7:00 PM ON WEEKDAYS AND 8:00 AM TO 7:00 PM ON WEEKENDS.
- THE CONTRACTOR SHOULD CONTACT JERRY NEVILLE WITH THE TOWN'S TRAFFIC ENGINEERING DIVISION AT 919-969-5096 PRIOR TO ANY ROAD OR SIDEWALK CLOSURE TO OBTAIN THE NECESSARY PERMIT APPROVAL.
- SEE SHEET C1301 FOR CONSTRUCTION SEQUENCE.

DATE	REVISIONS	MIN
20 NOV 25	PER TOCH & O.W.A.S.A. REVIEW COMMENTS	
26 JAN 26	PER TOCH & O.W.A.S.A. REVIEW COMMENTS	
01 APR 26	PER TOCH & O.W.A.S.A. REVIEW COMMENTS	

OWNER INFORMATION
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6850 MILLHOUSE ROAD
CHAPEL HILL, NC 27516
OWNERS REPRESENTATIVE:
CHAD BROWN
PH: (919) 969-5122
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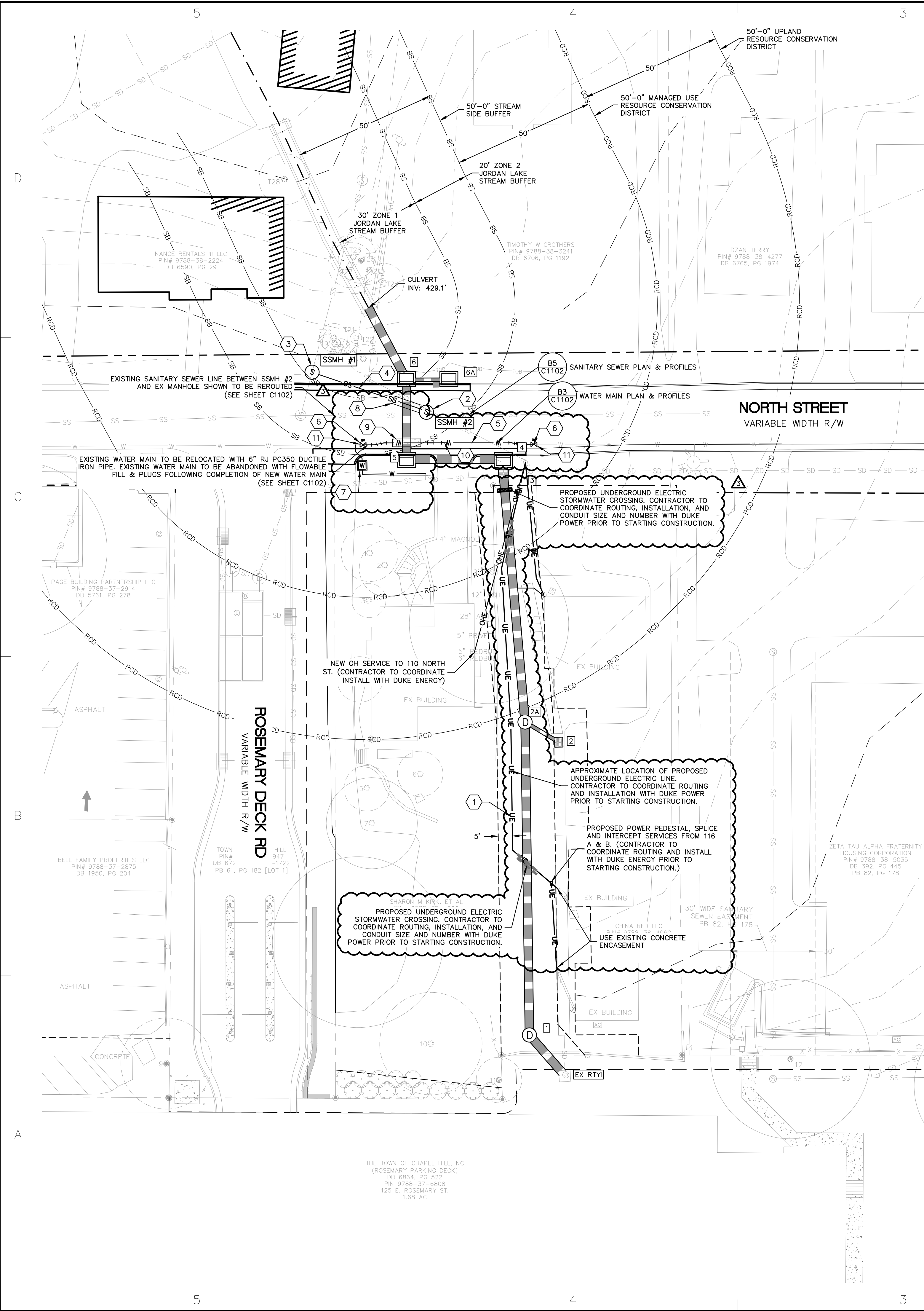
DATE	ISSUED
03 SEP 25	CD SUBMITTAL #1
20 NOV 25	CD SUBMITTAL #2
26 JAN 26	CD SUBMITTAL #3
01 APR 26	ISSUED FOR CONSTRUCTION

**NORTH STREET
PIPE REPLACEMENT
110 & 116 NORTH STREET
CHAPEL HILL, NORTH CAROLINA**

CONSTRUCTION DRAWINGS

JOB NUMBER: 119016.06
DATE: 03 SEP 25
SCALE: AS NOTED
DRAWN BY: R.M.N.
REVIEWED BY: K.W.J.

SHEET
C0101



DETAIL REFERENCE

PLAN KEY NOTES

- UNDERGROUND ELECTRIC, TELECOM & GAS (APPROX. LOCATIONS)
- 5' OFFSET DOGHOUSE SANITARY SEWER MANHOLE
- 5' DOGHOUSE SANITARY SEWER MANHOLE
- 8" C900 DR 18 PVC SEWER MAIN
- 6" RJ PC350 DUCTILE IRON WATER MAIN
- 6" GATE VALVE & VALVE BOX (TYP.) W/ THRUST BLOCKING
- 3/4" TYPE K COPPER SERVICE LINE & 5/8" METER W/ METER BOX (TYP.)
- CONCRETE ENCASEMENT
- CONCRETE CRADLE
- VERTICAL BEND, RODDING & BLOCKING (IF REQUIRED - TYP.)
- THRUST BLOCKING - INSTALL AT ALL TEES, TAPS & BENDS AS REQUIRED

DRAWING LEGEND

SYMBOL/ABBREVIATION

EXISTING	PROPOSED	DESCRIPTION
---	---	PROPERTY LINE
---	---	RIGHT-OF-WAY LINE
---	---	ADJOINER PROPERTY LINE
---	---	EASEMENT LINE
X	---	FENCE LINE
SD	---	STORM DRAIN LINE
W	---	WATER LINE
SS	---	SANITARY SEWER LINE
---	---	CONCRETE ENCASEMENT
UE	---	UNDERGROUND ELECTRIC LINE
OHE	---	OVERHEAD ELECTRIC LINE
G	---	GAS LINE
T	---	TELEPHONE LINE
FO	---	FIBER OPTIC LINE
---	---	TREE LINE
---	---	RETAINING WALL
---	---	EXISTING IRON PIPE
---	---	SIGN
---	---	MAIL BOX
---	---	BOLLARD
---	---	BORE HOLE
---	---	CATCH BASIN
---	---	CURB INLET
---	---	DROP INLET
---	---	JUNCTION BOX
---	---	WATER METER
---	---	WATER VALVE
---	---	FIRE HYDRANT
---	---	WATER BEND
---	---	FIRE DEPARTMENT CONNECTION
---	---	BACKFLOW PREVENTER
---	---	BLOW OFF VALVE
---	---	SANITARY SEWER MANHOLE
---	---	SANITARY SEWER CLEANOUT
---	---	POWER POLE

STRUCTURE TABLE			
STR. ID	RIM ELEV.* (FT)	STRUCTURE TYPE	
SSMH #1	442.315	5' DIA. DOGHOUSE SSMH	
SSMH #2	441.753	5' DIA. OFFSET DOGHOUSE SSMH	

PIPE TABLE						
US STR	DS STR	DIAMETER (IN)	MATERIAL	US INV. ELEV. (FT)	DS INV. ELEV. (FT)	SLOPE (FT/FT)
SSMH #2	SSMH #1	8	C900 DR 18 PVC	432.10	428.25	42.71

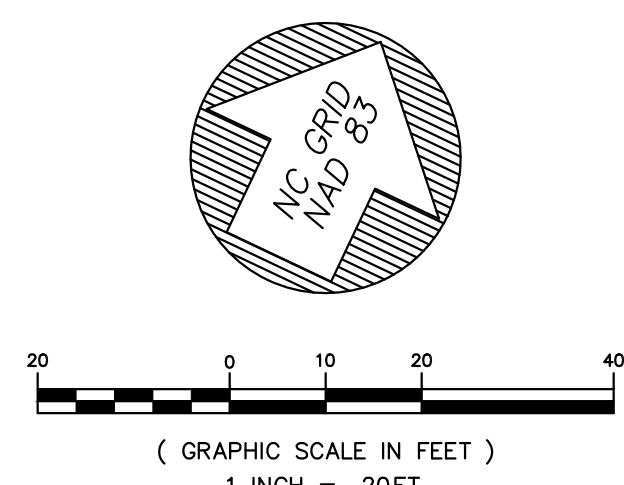
ORANGE WATER AND SEWER AUTHORITY CLOSE-OUT DOCUMENTATION CHECK-LIST

IN ADDITION TO A FINAL INSPECTION APPROVED BY THE OWASA CONSTRUCTION INSPECTOR, THE FOLLOWING DOCUMENTS MUST BE RECEIVED AND APPROVED BY OWASA BEFORE ACCEPTANCE OF THE PROJECT AND THE SETTING OF METERS. THE FOLLOWING SHALL BE SUBMITTED AS A COMPLETE PACKAGE TO THE OWASA ENGINEERING ASSOCIATE FOR THIRD PARTY REVIEW. PARTIAL SUBMITTALS ARE CONSIDERED INCOMPLETE. ALL INCOMPLETE SUBMITTALS WILL BE RETURNED.

- ENGINEER'S CERTIFICATION FOR DEH PUBLIC WATER SUPPLY SECTION PERMITTED WATER EXTENSION - SUBMIT ORIGINAL DOCUMENT TO OWASA FOR SUBMITTAL TO NCDENR. RECEIPT OF THE DEH PUBLIC WATER SUPPLY SECTION FINAL APPROVAL LETTER IS REQUIRED BEFORE THE PERMITTED WATER SYSTEM IS PLACED INTO SERVICE. STATE REQUIREMENT NO EXCEPTIONS.
- ENGINEER'S CERTIFICATION FOR DWQ PERMITTED SEWER EXTENSION - ENGINEER MUST USE THE CERTIFICATION FORM ATTACHED TO THE SEWER PERMIT FROM NCDENR. RECORD DRAWINGS ARE REQUIRED TO BE SUBMITTED TO NCDENR ALONG WITH THE CERTIFICATION OF COMPLETION AS A PART OF THE SUPPORTING DOCUMENTATION. BOTH DOCUMENTS MUST BE SEALED BY ENGINEERS FROM THE SAME ORGANIZATION. SUBMIT ORIGINAL DOCUMENT TO OWASA ALONG WITH THE SUPPORTING DOCUMENTATION REQUIRED BY DWQ. THE PERMITTED SEWER SYSTEM SHALL NOT BE PLACED INTO SERVICE UNTIL THE ENGINEER'S CERTIFICATION AND SUPPORTING DOCUMENTATION HAVE BEEN SUBMITTED BY OWASA TO DWQ. STATE REQUIREMENT NO EXCEPTIONS.
- ASSET LETTER - SUBMIT ORIGINAL DOCUMENT ON OWASA STANDARD FORM.
- LETTER OF DEDICATION - SUBMIT ORIGINAL DOCUMENT ON OWASA STANDARD FORM.
- RECORD DRAWINGS - CONSTRUCTION DRAWINGS SHALL BE MODIFIED TO REFLECT ACTUAL FIELD INSTALLATIONS. ALL DEH PUBLIC WATER SUPPLY SECTION PERMITTED EXTENSIONS AND DWQ PERMITTED EXTENSIONS SHALL BE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NORTH CAROLINA. SUBMIT THREE COPIES OF THE RECORD DRAWING FOR REVIEW BY THE OWASA ENGINEERING STAFF.
- DIGITAL SUBMISSIONS - WATER FEATURE DATABASE (MS ACCESS), MANHOLE DATASHEET DATABASE (MS ACCESS), AND RECORD DRAWING (AUTOCAD .DWG FORMAT). CONTACT THE OWASA ENGINEERING TECHNICIANS FOR INFORMATION CONCERNING THIS SUBMITTAL.

UTILITY PLAN NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH OWASA STANDARDS AND THE TOWN OF CHAPEL HILL STANDARDS SPECIFICATIONS.
- ALL UTILITIES SHALL BE PLACED UNDERGROUND. THIS DOES NOT APPLY TO COMPONENTS THAT ARE REQUIRED TO BE LOCATED ABOVE GROUND SUCH AS BACKFLOW PREVENTERS AND TRANSFORMERS.
- CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES (PRIVATE AND PUBLIC) PRIOR TO BEGINNING CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
3.1. NORTH CAROLINA ONE CALL: 811 OR 1-800-632-4949
- CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.
- ALL UNDERGROUND UTILITIES SHALL BE INSTALLED WITHIN THE CONSTRUCTION AREA AND OUTSIDE OF TREE PROTECTION AREAS TO AVOID DAMAGE TO TREE ROOTS DURING INSTALLATION. ALL ROUTING FOR UNDERGROUND UTILITIES IS PROHIBITED IN CRITICAL ROOT ZONES OF EXISTING TREES TO REMAIN.
- ALL UTILITIES TO BE LOCATED TO SIDE OF BUILDING PER SECTION 3.11.2.7.K.2 OF THE CHAPEL HILL LAND USE MANAGEMENT ORDINANCE (LUMO). ALL WALL MOUNTED UTILITIES ARE TO BE SCREENED IN ACCORDANCE WITH LUMO SECTION 3.11.4.2.E.4 AND ALL GROUND MOUNTED UTILITIES ARE TO BE SCREENED IN ACCORDANCE WITH LUMO SECTION 3.11.4.2.E.5.
- THE SITE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES AND INSTALL ALL REQUIRED CONDUITS (NUMBER AND LOCATION). NOT ALL REQUIRED CONDUITS ARE SHOWN ON THIS PLAN.
- THE SITE CONTRACTOR SHALL COORDINATE AND REVIEW SEWER MANHOLE RIM ADJUSTMENTS WITH OWASA INSPECTOR PRIOR TO FINAL LIFT OF ASPHALT.
- A MINIMUM OF 10' HORIZONTAL SEPARATION SHALL BE PROVIDED BETWEEN SANITARY AND STORM SEWERS.
10.1. OWASA: NICK PARKER - (919) 537-4201
10.2. MINIMUM UTILITY VERTICAL SEPARATION DISTANCES:
SANITARY SEWER MAINS AND STORM SEWER - 24"
SANITARY SEWER MAINS AND WATER - 18"
STORM SEWER AND WATER - 18"
10.3. SANITARY SEWER SERVICE LINE WITHIN OWASA EASEMENTS SHALL BE DIP.
- ELECTRICAL: CONTACT ERIC DABER WITH DUKE ENERGY AT (919) 687-3135 TO COORDINATE ELECTRIC SERVICE CONNECTION AT ROSEMARY STREET.
- GAS SERVICE TO BE DESIGNED, SIZED & INSTALLED BY GAS COMPANY. CONTACT BRIAN SMITH WITH PSNC ENERGY AT (919) 598-7454 FOR COORDINATION.
- TELECOM:
13.1. SPECTRUM: GEORGE STOTLER - (919) 427-5506
- CONTRACTOR TO COORDINATE WITH ALL UTILITY PROVIDERS PRIOR TO STARTING CONSTRUCTION TO MINIMIZE ANY SERVICE OUTAGES.
- CONTRACTOR TO PROVIDE A 3/4" CHLORINATING TAP AND 2" TEMPORARY BLOWOFF FOR DISINFECTION, FLUSHING AND SAMPLING NEW WATER MAIN PRIOR TO FINAL CONNECTION TO EXISTING MAIN. LOCATION AND PROCESS TO BE COORDINATED DURING PRECONSTRUCTION MEETING.



UTILITY PLAN

Ballentine Associates, PA
221 Providence Road
Chapel Hill, NC 27514
919.939.0481
ballentineassociates.com

Professional Engineer Seal
CORPORATE SEAL C328
NORTH CAROLINA
054365
01 APR 26
ENGINEER
KENNETH W. JORDAN

DATE	REVISIONS	NUM	OWNER INFORMATION
20 NOV 25	PER TOCH & OWASA REVIEW COMMENTS	1	TOWN OF CHAPEL HILL 6850 MILLHOUSE ROAD
26 JAN 26	PER TOCH & OWASA REVIEW COMMENTS	2	CHAPEL HILL, NC 27516
01 APR 26	PER TOCH & OWASA REVIEW COMMENTS	3	OWNERS REPRESENTATIVE: CHAD BROWN PH (919) 589-5122 FAX EMAIL: cbrown1@townofchapelhill.org

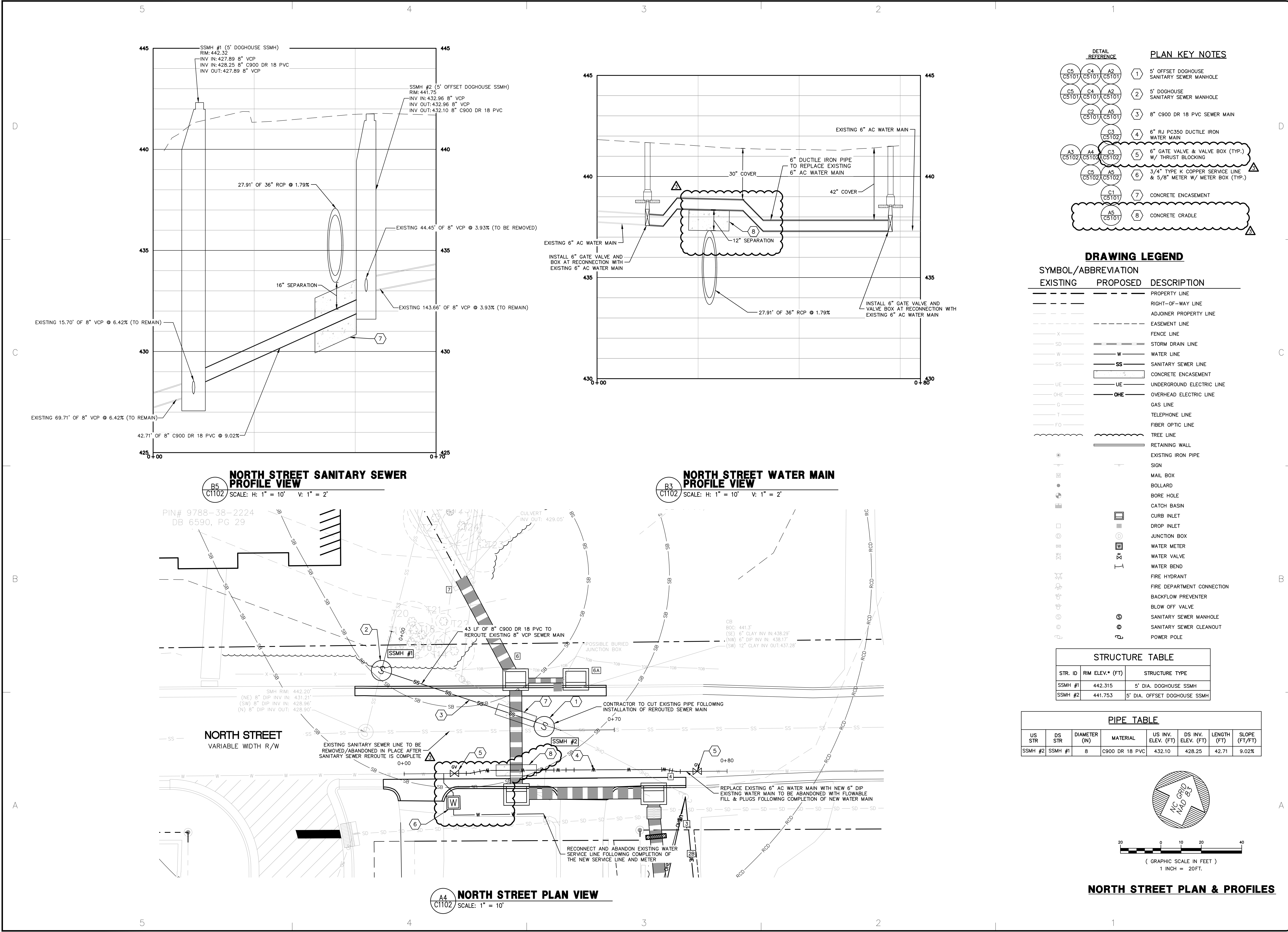
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**NORTH STREET
PIPE REPLACEMENT
110 & 116 NORTH STREET
CHAPEL HILL, NORTH CAROLINA**

CONSTRUCTION DRAWINGS

JOB NUMBER: 119016.06
DATE: 03 SEP 25
SCALE: AS NOTED
DRAWN BY: R.M.N.
REVIEWED BY: K.W.J.

**SHEET
C1101**



DETAIL REFERENCE

C5 C5101	C4 C5101	A2 C5101	1	5' OFFSET DOGHOUSE SANITARY SEWER MANHOLE
C5 C5101	C4 C5101	A2 C5101	2	5' DOGHOUSE SANITARY SEWER MANHOLE
C2 C5101	A5 C5101		3	8" C900 DR 18 PVC SEWER MAIN
C3 C5102			4	6" RJ PC350 DUCTILE IRON WATER MAIN
A3 C5102	A4 C5102	C3 C5102	5	6" GATE VALVE & VALVE BOX (TYP.) W/ THRUST BLOCKING
C5 C5102	A5 C5102		6	3/4" TYPE K COPPER SERVICE LINE & 5/8" METER W/ METER BOX (TYP.)
C1 C5101			7	CONCRETE ENCASEMENT
A5 C5101			8	CONCRETE CRADLE

PLAN KEY NOTES

- 5' OFFSET DOGHOUSE
SANITARY SEWER MANHOLE
- 5' DOGHOUSE
SANITARY SEWER MANHOLE
- 8" C900 DR 18 PVC
SEWER MAIN
- 6" RJ PC350 DUCTILE IRON
WATER MAIN
- 6" GATE VALVE & VALVE BOX (TYP.)
W/ THRUST BLOCKING
- 3/4" TYPE K COPPER SERVICE LINE
& 5/8" METER W/ METER BOX (TYP.)
- CONCRETE ENCASEMENT
- CONCRETE CRADLE

DRAWING LEGEND

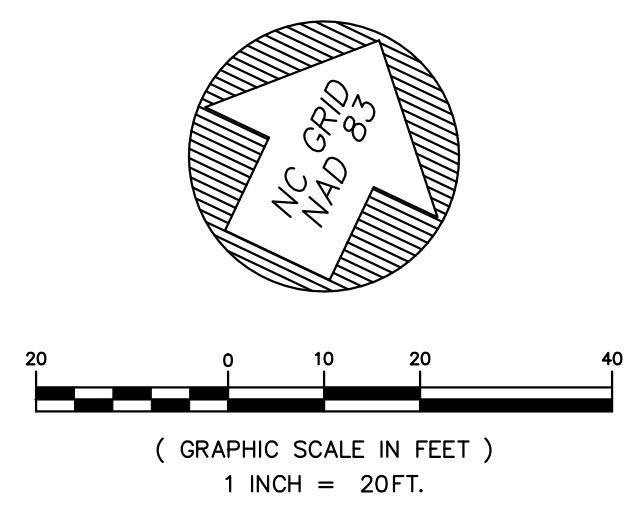
SYMBOL/ABBREVIATION		DESCRIPTION
EXISTING	PROPOSED	
---	---	PROPERTY LINE
---	---	RIGHT-OF-WAY LINE
---	---	ADJOINER PROPERTY LINE
---	---	EASEMENT LINE
X	---	FENCE LINE
SD	---	STORM DRAIN LINE
W	W	WATER LINE
SS	SS	SANITARY SEWER LINE
---	---	CONCRETE ENCASEMENT
UE	UE	UNDERGROUND ELECTRIC LINE
OHE	OHE	OVERHEAD ELECTRIC LINE
G	---	GAS LINE
T	---	TELEPHONE LINE
FO	---	FIBER OPTIC LINE
---	---	TREE LINE
---	---	RETAINING WALL
---	---	EXISTING IRON PIPE
---	---	SIGN
---	---	MAIL BOX
---	---	BOLLARD
---	---	BORE HOLE
---	---	CATCH BASIN
---	---	CURB INLET
---	---	DROP INLET
---	---	JUNCTION BOX
---	---	WATER METER
---	---	WATER VALVE
---	---	WATER BEND
---	---	FIRE HYDRANT
---	---	FIRE DEPARTMENT CONNECTION
---	---	BACKFLOW PREVENTER
---	---	BLOW OFF VALVE
---	---	SANITARY SEWER MANHOLE
---	---	SANITARY SEWER CLEANOUT
---	---	POWER POLE

STRUCTURE TABLE

STR. ID	RIM ELEV.* (FT)	STRUCTURE TYPE
SSMH #1	442.315	5' DIA. DOGHOUSE SSMH
SSMH #2	441.753	5' DIA. OFFSET DOGHOUSE SSMH

PIPE TABLE

US STR	DS STR	DIAMETER (IN)	MATERIAL	US INV. ELEV. (FT)	DS INV. ELEV. (FT)	LENGTH (FT)	SLOPE (FT/FT)
SSMH #2	SSMH #1	8	C900 DR 18 PVC	432.10	428.25	42.71	9.02%



NORTH STREET PLAN & PROFILES

Ballentine Associates, PA
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PROFESSIONAL SEAL
054365
01 APR 26
KENNETH W. WOOD

DATE

20 NOV 26	REVISIONS	DATE	ISSUED
PER TOCH & C.W.A.S.A. REVIEW COMMENTS	PER TOCH & C.W.A.S.A. REVIEW COMMENTS	03 SEP 26	CD SUBMITTAL #1
PER TOCH & C.W.A.S.A. REVIEW COMMENTS	PER TOCH & C.W.A.S.A. REVIEW COMMENTS	20 NOV 26	CD SUBMITTAL #2
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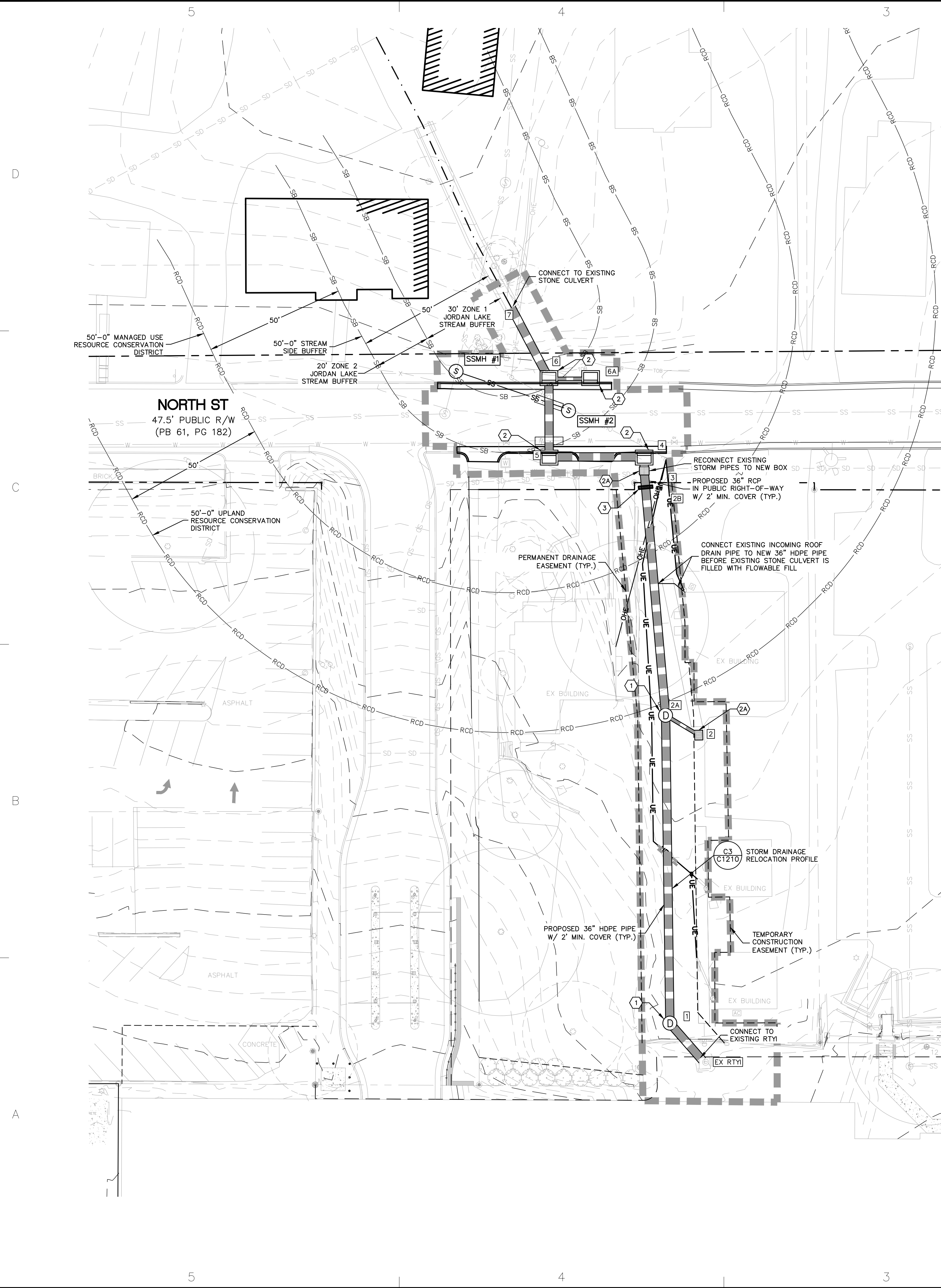
OWNER INFORMATION
TOWN OF CHAPEL HILL
6850 MILLHOUSE ROAD
CHAPEL HILL, NC 27516
OWNERS REPRESENTATIVE:
CHAD BROWN
PH: (919) 969-5122
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**NORTH STREET
PIPE REPLACEMENT
110 & 116 NORTH STREET
CHAPEL HILL, NORTH CAROLINA**

CONSTRUCTION DRAWINGS

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REVIEWED BY: K.W.J.

**SHEET
C1102**



PIPE TABLE						
US STR	DS STR	DIAMETER (IN)	MATERIAL	US INV. ELEV. (FT)	DS INV. ELEV. (FT)	LENGTH (FT)
EX RTY1	1	36	HDPE	446.80	443.50	19
1	2A	36	HDPE	443.50	438.00	110
2	2A	15	HDPE	441.00	440.85	14
2A	2B	36	HDPE	438.00	435.50	82
2B	3	36	RCP	435.50	435.10	6
3	4	36	RCP	435.10	435.00	5
4	5	36	RCP	435.00	434.10	34
5	6	36	RCP	434.10	433.60	28
6A	6	15	RCP	436.00	434.25	15
6	7	36	RCP	432.50	429.10	29

STRUCTURE TABLE		
STR. ID	RIM ELEV.+ (FT)	STRUCTURE TYPE
EX RTY1	454.17	RTY1
1	449.06	JB
2	443.76	DI
2A	443.70	JB
2B	438.23	COLLAR
3	441.73	DI
4	441.35	CI
5	441.93	CI
6	441.35	CI
6A	441.27	CI
7	433.10	PIPE END

*RIM ELEV. REFER TO:
JUNCTION BOX/CO TOP OF MANHOLE COVER
CATCH BASIN BOT OF CURB/TOP OF GRATE
DROP INLET/DS TOP OF CASTING/GRATE
FLARED END INVERT
SECTION/PIPE END

GRADING AND DRAINAGE NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE NCDOT, NCDOT, ORANGE COUNTY, AND THE TOWN OF CHAPEL HILL STANDARDS AND SPECIFICATIONS.
- CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (1-800-632-4949). LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL VERIFY THE DEPTH AND LOCATION OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
- ALL STORM DRAINAGE PIPING WITH INSIDE DIAMETER OF 15 INCHES AND LARGER SHALL BE CLASS III RCP.
- THIS PLAN IS DIAGRAMMATIC AND REPRESENTS THE APPROXIMATE LOCATION OF UTILITIES UNLESS SPECIFICALLY DIMENSIONED. THE CONTRACTOR SHALL COORDINATE THE ACTUAL LOCATION OF UTILITIES TO AVOID CONFLICTS AND MEET MINIMUM SIZE, SLOPE, AND CODE REQUIREMENTS.
- ALL SIDEWALKS SHALL BE CONSTRUCTED SUCH THAT THE LONGITUDINAL SLOPE DOES NOT EXCEED 5% AND THE CROSS-SLOPE DOES NOT EXCEED 2%. IF THERE ARE ANY DISCREPANCIES, NOTIFY THE ENGINEER.
- NO DISCHARGE OR DISTURBANCE IS ALLOWED WITHIN THE WETLANDS.
- DRAINAGE EASEMENTS WILL BE OWNED AND MAINTAINED BY THE TOWN OF CHAPEL HILL.
- CONTRACTOR TO MAKE AN EFFORT TO PERFORM STORM DRAIN REPLACEMENT DURING DRY PERIOD.
- IF NEEDED, CONTRACTOR TO UTILIZE PUMPS AND DEWATERING FILTER BAGS TO CONVEY STORM WATER DURING STORM PIPE RELOCATION.
- CONTRACTOR TO PROVIDE BYPASS SYSTEM FROM CLOSEST UPSTREAM INLET OUT OF SERVICE TO FUNCTIONING DOWNSTREAM INLET AT THE END OF EACH WORKDAY.
- STORM WATER BYPASS TO REMAIN IN PLACE DURING RAIN EVENTS AND ANY PRESENCE OF STORM WATER THROUGH THE PIPE.
- SEE SHEET C5202 FOR FURTHER DETAILS.

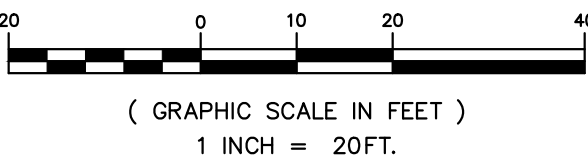
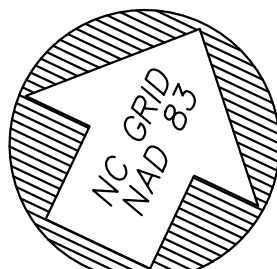
PLAN KEY NOTES

- DETAIL REFERENCE # PLAN KEY NOTES
- A5 C5201 1 JUNCTION BOX & CASTING (TYP.)
 - B3 C5201 2 CONCRETE CATCH BASIN (CURB INLET) (TYP.)
 - C5 C5202 2A YARD INLET (TYP.)
 - C2 C5202 3 CONCRETE COLLAR TO CONNECT HDPE PIPE AND RCP

DRAWING LEGEND

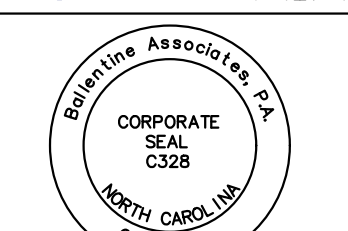
SYMBOL/ABBREVIATION

EXISTING	PROPOSED	DESCRIPTION
---	---	PROPERTY LINE
---	---	RIGHT-OF-WAY LINE
---	---	ADJOINER PROPERTY LINE
---	---	EASEMENT LINE
---	---	STORM DRAIN LINE
---	---	FENCE LINE
---	---	SANITARY SEWER LINE
---	---	WATER MAIN LINE
---	---	UNDERGROUND ELECTRIC LINE
---	---	OVERHEAD ELECTRIC LINE
---	---	GAS LINE
---	---	FIBER OPTIC LINE
---	---	LIMITS OF DISTURBANCE
---	---	TREE LINE
---	---	MAJOR CONTOUR
---	---	MINOR CONTOUR
---	---	BOREHOLE
---	---	EXISTING IRON PIPE
---	---	CATCH BASIN
---	---	CURB INLET
---	---	DROP INLET
---	---	JUNCTION BOX
---	---	WATER METER
---	---	WATER VALVE
---	---	FIRE HYDRANT
---	---	SANITARY SEWER MANHOLE
---	---	SANITARY SEWER CLEANOUT
---	---	POWER POLE
---	---	ELECTRIC BOX
---	---	HVAC UNIT
---	---	DECIDUOUS TREE
---	---	CONIFEROUS TREE



GRADING & DRAINAGE PLAN

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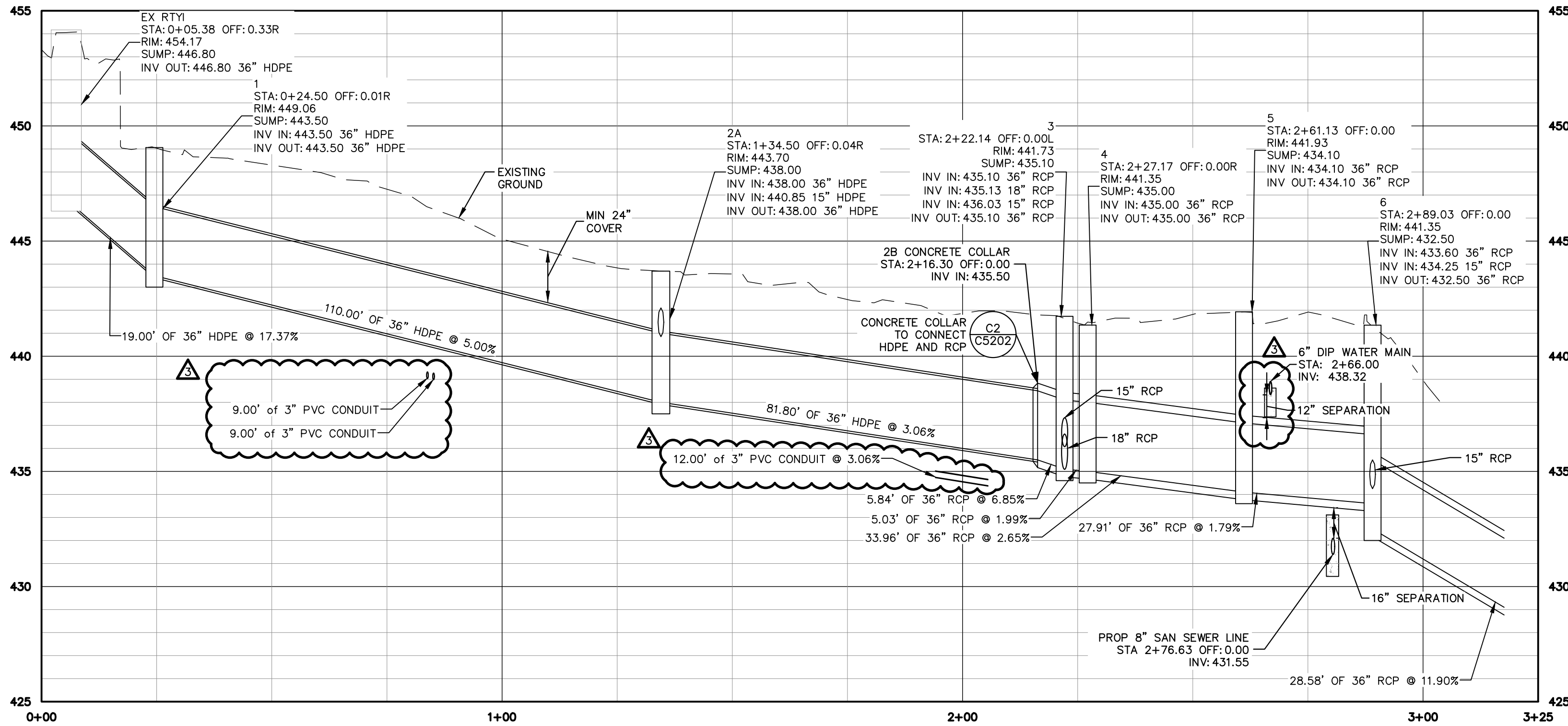
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**NORTH STREET
PIPE REPLACEMENT
110 & 116 NORTH STREET
CHAPEL HILL, NORTH CAROLINA**

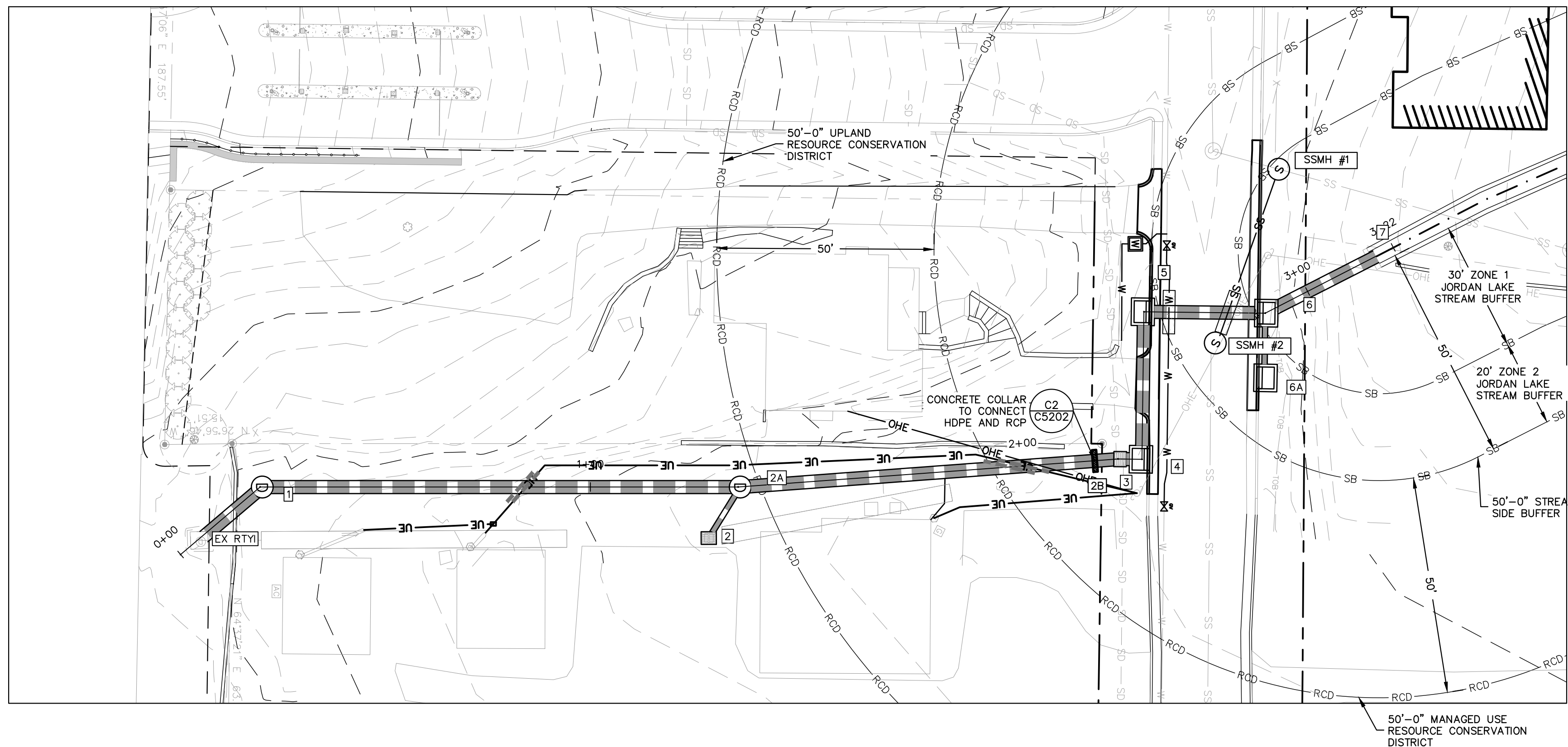
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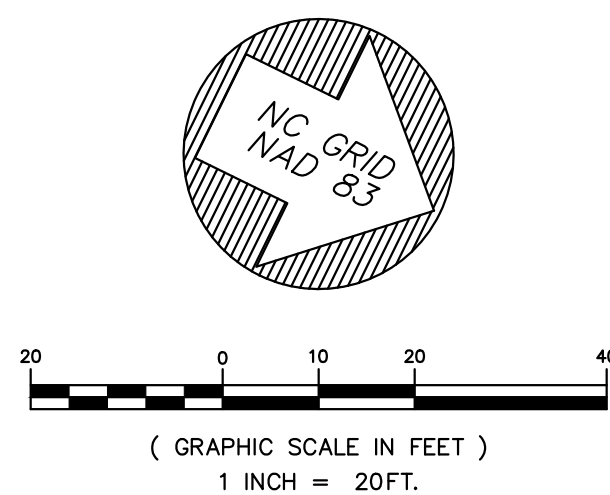
**SHEET
C1201**



C3
C1210 STORM DRAINAGE PROFILE VIEW
SCALE: H: 1" = 20' V: 1" = 4'



A3
C1210 STORM DRAINAGE PLAN VIEW
SCALE: 1" = 20'



STORM DRAINAGE PLAN & PROFILE

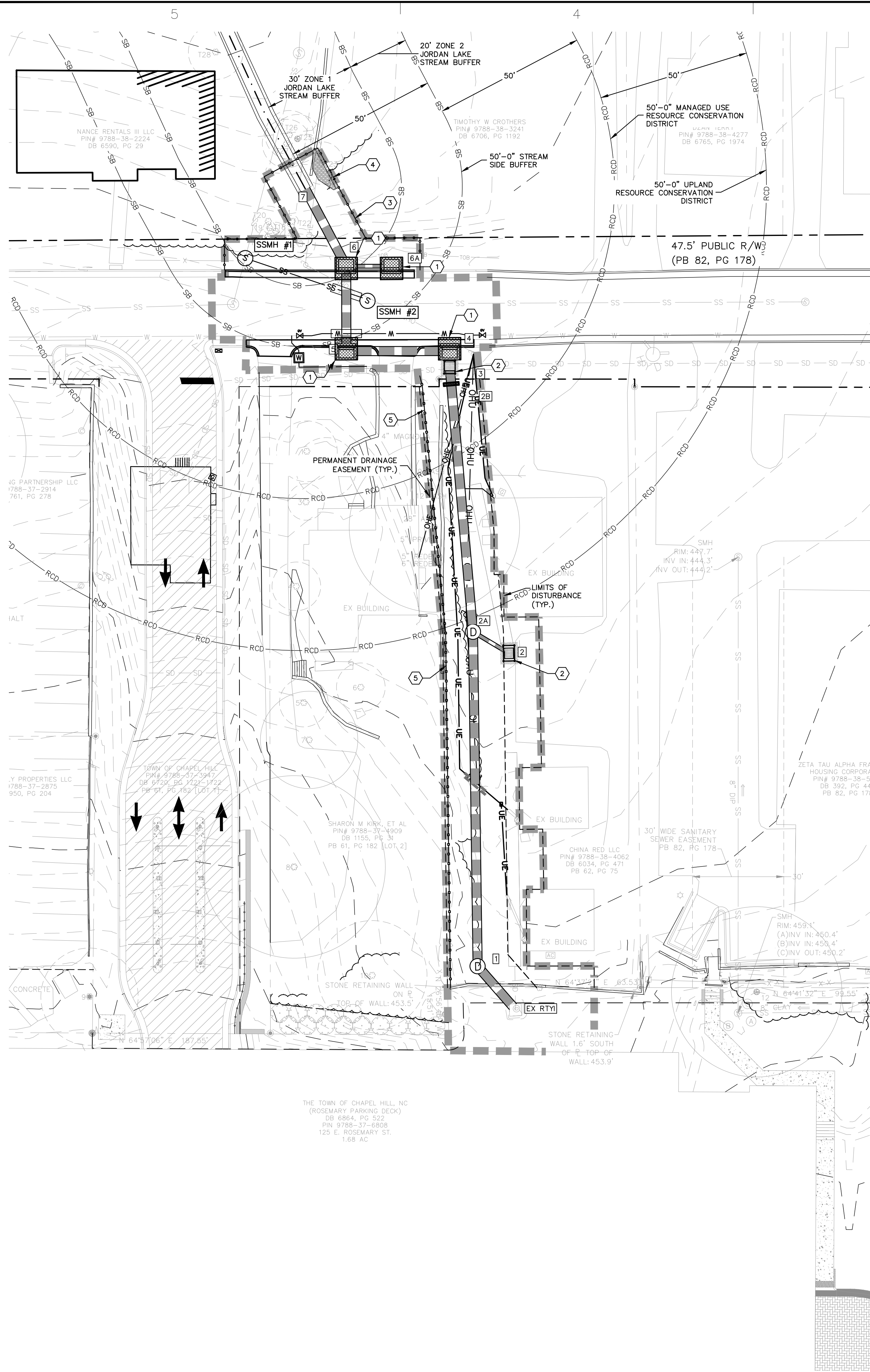
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CONSTRUCTION SEQUENCE

1. OBTAIN TOWN OF CHAPEL HILL AND OWASA APPROVAL TO PROCEED.
2. SCHEDULE A PRECONSTRUCTION CONFERENCE WITH ORANGE COUNTY SOLID WASTE MANAGEMENT DEPARTMENT, TOWN OF CHAPEL HILL STORMWATER MANAGEMENT DIVISION AND OWASA AT LEAST ONE WEEK PRIOR TO BEGINNING CONSTRUCTION. THIS MAY BE THE SAME MEETING HELD WITH OTHER DEVELOPMENT REGULATORS INCLUDING THE TOWN OF CHAPEL HILL STAFF.
3. LOCATE ALL EXISTING UTILITIES WITHIN PROJECT AREA (PUBLIC AND PRIVATE).
4. INSTALL TEMPORARY INLET PROTECTION AROUND STORM STRUCTURES AND MAINTAIN EROSION CONTROL PROCEDURES FOR THE DURATION OF THE PROJECT. CALL RALEIGH REGIONAL OFFICE AT (919) 791-4200 AND TOWN OF CHAPEL HILL PLANNING AT (919) 968-2728 FOR AN INSPECTION.
5. ANY WASTE OR EXCESS SOIL WILL BE TRUCKED AND HAULED OFF-SITE TO BE PROPERLY DISPOSED OF.
6. PROCEED WITH SEWER MAIN RELOCATION ON NORTH STREET. STARTING WITH INSTALLATION OF NEW SANITARY SEWER MAIN FIRST. AFTER INSTALLATION APPROVAL IS PROVIDED, ABANDON/REMOVE OLD SANITARY SEWER LINE.
7. AFTER RELOCATION AND APPROVAL OF SANITARY SEWER MAIN. BEGIN CONSTRUCTION INSTALLING NEW STORM SEWER LINE BEGINNING FROM DOWN STREAM WORKING UP STREAM TO TIE-IN POINT ON EX RTYL. ENSURE EXISTING ROOF DRAIN IS INSTALLED TO RELOCATED STORM SEWER LINE AS SHOWN ON THIS SHEET.
8. CONTRACTOR TO PROVIDE STORMWATER BYPASS SYSTEM FROM UPSTREAM INLET TO CLOSEST FUNCTIONING DOWNSTREAM INLET AT THE END OF EACH WORKDAY.
9. STORM WATER BYPASS TO REMAIN IN PLACE DURING RAIN EVENTS AND WHEN STORMWATER IS PRESENT WITHIN PIPE NETWORK. SEE SHEET C5202 FOR FURTHER DETAILS.
10. DEMO EXISTING CONCRETE STORM WATER CULVERT OR ABANDON LINE IN PLACE AS NEEDED REFER TO SHEET C0101 FOR DEMO PROCEDURE AND NOTES.
11. BACKFILL AND FINE GRADE DISTURBED AREAS.
12. SEED ALL AREAS DISTURBED BY INSTALLATION OF ABOVE MEASURES IN ACCORDANCE WITH THE GROUND STABILIZATION REQUIREMENTS TABLE LOCATED ON THIS SHEET.
13. UPON COMPLETION OF PROJECT, CALL TOWN OF CHAPEL HILL FOR INSPECTION.
14. IF THE SITE IS APPROVED, REMOVE ALL REMAINING EROSION CONTROL DEVICES, REGRADE TO FINAL GRADE AS NEEDED, AND SEED ANY REMAINING DISTURBED AREAS.
15. WHEN VEGETATION IS ESTABLISHED, CALL FOR FINAL SITE INSPECTION.

SEEDING SCHEDULE

- SEEDBED PREPARATION**
1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF APPLICABLE.
 2. RIP THE ENTIRE AREA TO 6 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 BELOW*).
 5. CONTINUE TILLAGE UNTIL WELL PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
 6. SEED ON 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 SEEDBED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. F STAND SHOULD BE OVER 60% DAMAGED, REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.

* APPLY: AGRICULTURAL LIMESTONE - 2 TONS/AC (3 TONS/AC 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 @ 300 GALS/ACRE

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

TYPE	PLANTING RATE
AUG 1 - NOV 1 TALL FESCUE	120 LBS/ACRE
NOV 1 - MAR 1 TALL FESCUE & ABRUZZI RYE	120 LBS/ACRE 25 LBS/ACRE
MAR 1 - APR 15 APR 15 - JUN 30 TALL FESCUE HULLED COMMON BERMUDAGRASS	120 LBS/ACRE 12 LBS/ACRE
JUL 1 - AUG 15 TALL FESCUE AND **BROWNTOWN MILLET **OR SORGHUM-SUDAN HYBRIDS	60 LBS/ACRE 35 LBS/ACRE 30 LBS/ACRE

SLOPES (3:1 TO 2:1)

MAR 1 - JUN 1 (MAR 1 - APR 15) (MAR 1 - JUN 30) (MAR 1 - JUN 30) APR 15 - JUN 30 JUN 1 - SEP 1	SERICEA LESPEDEZA (SCARIFIED) & ADD TALL FESCUE OR ADD WEEPING LOVERGRASS OR ADD HULLED COMMON BERMUDAGRASS HULLED COMMON BERMUDAGRASS TALL FESCUE AND **BROWNTOWN MILLET **OR SORGHUM-SUDAN HYBRIDS	50 LBS/ACRE 60 LBS/ACRE 5 LBS/ACRE 8 LBS/ACRE 12 LBS/ACRE 60 LBS/ACRE 35 LBS/ACRE 30 LBS/ACRE
SEP 1 - MAR 1 (NOV 1 - MAR 1)	SERICEA LESPEDEZA (UNHULLED - SCARIFIED) AND TALL FESCUE ADD ABRUZZI RYE	70 LBS/ACRE 50 LBS/ACRE 25 LBS/ACRE

GROUND STABILIZATION REQUIREMENTS

(PER NPDES CONSTRUCTION STORMWATER GENERAL PERMIT NCG010000)

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

* "EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE" (SECTION 11.B (2)(b))

EROSION CONTROL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ORANGE COUNTY AND THE TOWN OF CHAPEL HILL STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (1-800-632-4949), LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL VERIFY THE DEPTH AND LOCATION OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
3. THIS PLAN IS DIAGRAMMATIC AND REPRESENTS THE APPROXIMATE LOCATION OF UTILITIES UNLESS SPECIFICALLY DIMENSIONED. THE CONTRACTOR SHALL COORDINATE THE ACTUAL LOCATION OF UTILITIES TO AVOID CONFLICTS AND MEET MINIMUM SIZE, SLOPE, AND CODE REQUIREMENTS.
4. TOTAL DISTURBED AREA: 0.18 AC. THIS INCLUDES ALL DISTURBANCE REQUIRED FOR FULL SITE CONSTRUCTION.
5. NO BURNING IS PERMITTED.
6. ALL EROSION CONTROL DEVICES, INCLUDING INLET PROTECTION, SHALL BE MAINTAINED AS NEEDED, AT LEAST ONCE A WEEK AND AFTER EVERY RUNOFF PRODUCING RAINFALL EVENT TO ENSURE DEVICES ARE FUNCTIONING PROPERLY.
7. CONTRACTOR SHALL INSPECT THE EROSION AND SEDIMENT CONTROL DEVICES DAILY, MAKE ANY NECESSARY REPAIRS OR ADJUSTMENTS TO THE DEVICES, AND MAINTAIN INSPECTION LOGS DOCUMENTING THE DAILY INSPECTIONS AND ANY NECESSARY REPAIRS.
8. CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO PREVENT AND REMOVE THE DEPOSIT OF SILT ON ADJACENT PAVED ROADWAYS.
9. SUFFICIENT EROSION CONTROL PRACTICES MUST BE INSTALLED AND MAINTAINED TO RETAIN SEDIMENT WITHIN THE BOUNDARIES OF DISTURBANCE. ALL DISTURBED AREAS SHALL BE NON EROSION AND STABLE AS DESCRIBED IN THE GROUND STABILIZATION REQUIREMENTS TABLE (THIS SHEET).

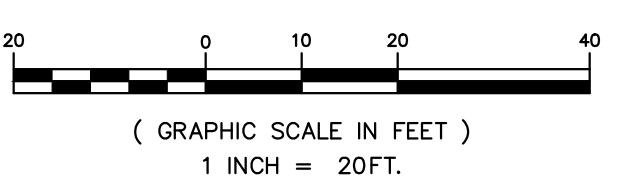
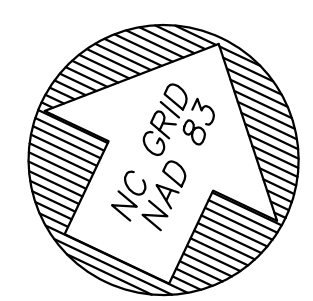
DRAWING LEGEND

SYMBOL/ABBREVIATION

EXISTING	PROPOSED	DESCRIPTION
---	---	PROPERTY LINE
---	---	RIGHT-OF-WAY LINE
---	---	ADJOINER PROPERTY LINE
---	---	EASEMENT LINE
---	---	STORM DRAIN LINE
---	---	FENCE LINE
---	---	SANITARY SEWER LINE
---	---	WATER MAIN LINE
---	---	UNDERGROUND ELECTRIC LINE
---	---	OVERHEAD ELECTRIC LINE
---	---	GAS LINE
---	---	FIBER OPTIC LINE
---	---	LIMITS OF DISTURBANCE
---	---	TREE LINE
---	---	MAJOR CONTOUR
---	---	MINOR CONTOUR
---	---	STANDARD SILT SACK
---	---	SILT FENCE
---	---	TREE PROTECTION FENCE
---	---	SILT FENCE OUTLET
---	---	BOREHOLE
---	---	EXISTING IRON PIPE
---	---	SIGN
---	---	CATCH BASIN
---	---	CURB INLET
---	---	DROP INLET
---	---	JUNCTION BOX
---	---	WATER VALVE
---	---	FIRE HYDRANT
---	---	SANITARY SEWER MANHOLE
---	---	POWER POLE
---	---	LIGHT POLE
---	---	ELECTRIC BOX
---	---	HVAC UNIT
---	---	GAS METER
---	---	GAS VALVE
---	---	TELEPHONE VAULT
---	---	FIBER OPTIC MARKER
---	---	DECIDUOUS TREE
---	---	CONIFEROUS TREE

PLAN KEY NOTES

1. MAINTAIN/INSTALL STANDARD SILT SACK - INLET SEDIMENT CONTROL DEVICE (TYP.)
2. MAINTAIN/INSTALL TEMPORARY INLET PROTECTION (TYP.)
3. TEMPORARY SILT FENCE (TYP.)
4. TEMPORARY SILT FENCE STONE OUTLET (TYP.)
5. TEMPORARY TREE PROTECTION FENCE (TYP.)



EROSION CONTROL PLAN

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Professional Engineer
North Carolina
054385
01 APR 26
KENNETH W. JUD

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OWNER INFORMATION
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**NORTH STREET
PIPE REPLACEMENT
110 & 116 NORTH STREET
CHAPEL HILL, NORTH CAROLINA**

CONSTRUCTION DRAWINGS

JOB NUMBER: 119016.06

DATE: 03 SEP 25

SCALE: AS NOTED

DRAWN BY: R.M.N.

REVIEWED BY: K.W.J.

**SHEET
C1301**

TRAFFIC CONTROL NOTES

ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH APPLICABLE NCDOT AND MUTCD STANDARDS.

ADAPT THE TRAFFIC CONTROL CONCEPTS, WHEN DIRECTED BY THE ENGINEER, TO MEET FIELD CONDITIONS TO PROVIDE SAFE AND EFFICIENT TRAFFIC MOVEMENT. CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS AND ROADWAY DETAILS ARE NOT ATTAINABLE, OR RESULT IN DUPLICATE, OR UNDESIRABLE OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING OR REMOVAL OF DEVICES.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS:

- A) THERE SHALL BE NO TIME RESTRICTIONS CONCERNING THE PROPOSED TRAFFIC MANAGEMENT PLAN.
- B) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR OTHERWISE DIRECTED BY THE ENGINEER.
- C) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED, OR AS DIRECTED BY THE ENGINEER.
- D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 40 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- G) DO NOT WORK SIMULTANEOUSLY, ON BOTH SIDES OF AN OPEN TRAVELWAY, WITHIN THE SAME LOCATION, ON A TWO-LANE, TWO-WAY ROAD.
- H) DO NOT PERFORM WORK INVOLVING HEAVY EQUIPMENT WITHIN 15 FT OF THE EDGE OF TRAVELWAY WHEN WORK IS BEING PERFORMED BEHIND A LANE CLOSURE ON THE OPPOSITE SIDE OF THE TRAVELWAY.

LANE AND SHOULDER CLOSURE REQUIREMENTS:

PAVEMENT EDGE DROP OFF REQUIREMENTS:

- I) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS A DROP-OFF AS FOLLOWS:
BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.
BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER.
- J) DO NOT EXCEED A DIFFERENCE OF 1.5 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 500 FT IN ADVANCE OF THE UNEVEN AREA.

SIGNING:

- K) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 100 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
WHEN NO WORK IS BEING CONDUCTED FOR A PERIOD LONGER THAN ONE WEEK, REMOVE OR COVER ALL ADVANCE WORK ZONE WARNING SIGNS, AS DIRECTED BY THE ENGINEER.
- L) PROVIDE PERMANENT SIGNING.
- M) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES:

- N) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADI, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT.
- O) PLACE SETS OF THREE DRUMS PERPENDICULAR TO THE EDGE OF THE TRAVELWAY ON 300 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC. THESE DRUMS SHALL BE IN ADDITION TO CHANNELIZING DEVICES.

PAVEMENT MARKINGS AND MARKERS:

- P) INSTALL PAVEMENT MARKINGS AS SHOWN ON PLAN SHEETS.
- Q) REFER TO SECTION 1205 OF THE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES DATED JANUARY 2012 FOR APPLICATION TIMES AND TEMPERATURE CONDITIONS FOR PAVEMENT MARKINGS.

- R) PLACE AT LEAST TWO APPLICATIONS OF PAINT PAVEMENT MARKINGS ON THE FINAL WEARING SURFACE ON NEW ASPHALT PAVEMENT. PLACE ADDITIONAL APPLICATIONS OF PAINT UPON SUFFICIENT DRYING TIME, AS DETERMINED BY THE ENGINEER.
- S) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- T) REPLACE ANY PAVEMENT MARKINGS THAT HAVE BEEN DAMAGED BY THE END OF EACH DAY'S OPERATION.
- U) PLACE AT LEAST TWO APPLICATIONS OF PAINT ON NEW ASPHALT WITH TEMPORARY TRAFFIC PATTERNS WHICH WILL REMAIN IN PLACE OVER THREE (3) MONTHS. PLACE ADDITIONAL APPLICATIONS OF PAINT UPON SUFFICIENT DRYING TIME, AS DETERMINED BY THE ENGINEER.

- V) CONTRACTOR SHALL MAINTAIN ALL TEMPORARY PAINT PAVEMENT MARKINGS UNTIL COMPLETION OF THERMOPLASTIC PAVEMENT MARKING INSTALLATION.

- W) BEFORE SHIFTING TRAFFIC TO NEW LOCATIONS, CONTRACTOR SHALL REMOVE ANY MARKINGS WHICH CONFLICT WITH THE NEW TRAFFIC PATTERN(S).

PEDESTRIAN AND BICYCLIST SAFETY:

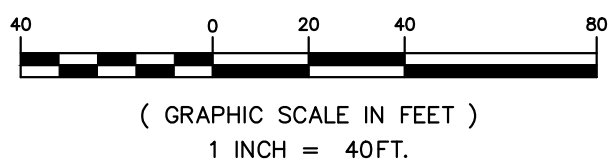
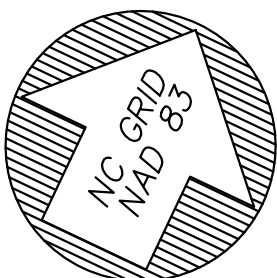
- X) PEDESTRIAN AND BICYCLIST SAFETY MUST BE MAINTAINED AT ALL TIMES BY ADEQUATE PROJECT LIMITS, FENCING, AND SIGNAGE.

MISCELLANEOUS:

- Y) POLICE MAY BE USED TO MAINTAIN TRAFFIC THROUGH INTERSECTIONS.
- Z) STOCKPILE EXISTING SIGNS FOR USE WHEN NEEDED IN TEMPORARY LOCATIONS DURING CONSTRUCTION.
- BB) ACCESS SHALL BE MAINTAINED TO ALL RESIDENCES AND BUSINESSES AT ALL TIMES.
- CC) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) AND RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

DRAWING LEGEND

SYMBOL	DESCRIPTION
	PORTABLE SIGN
	TYPE III BARRICADE
	TEMPORARY SIGN WITH SIZE AND STANDARD MUTCD REFERENCE #
	WORK ZONE
	DETOUR ROUTE
	TEMPORARY SIGN WITH SIZE AND STANDARD MUTCD REFERENCE #



TRAFFIC & PEDESTRIAN CONTROL PLAN

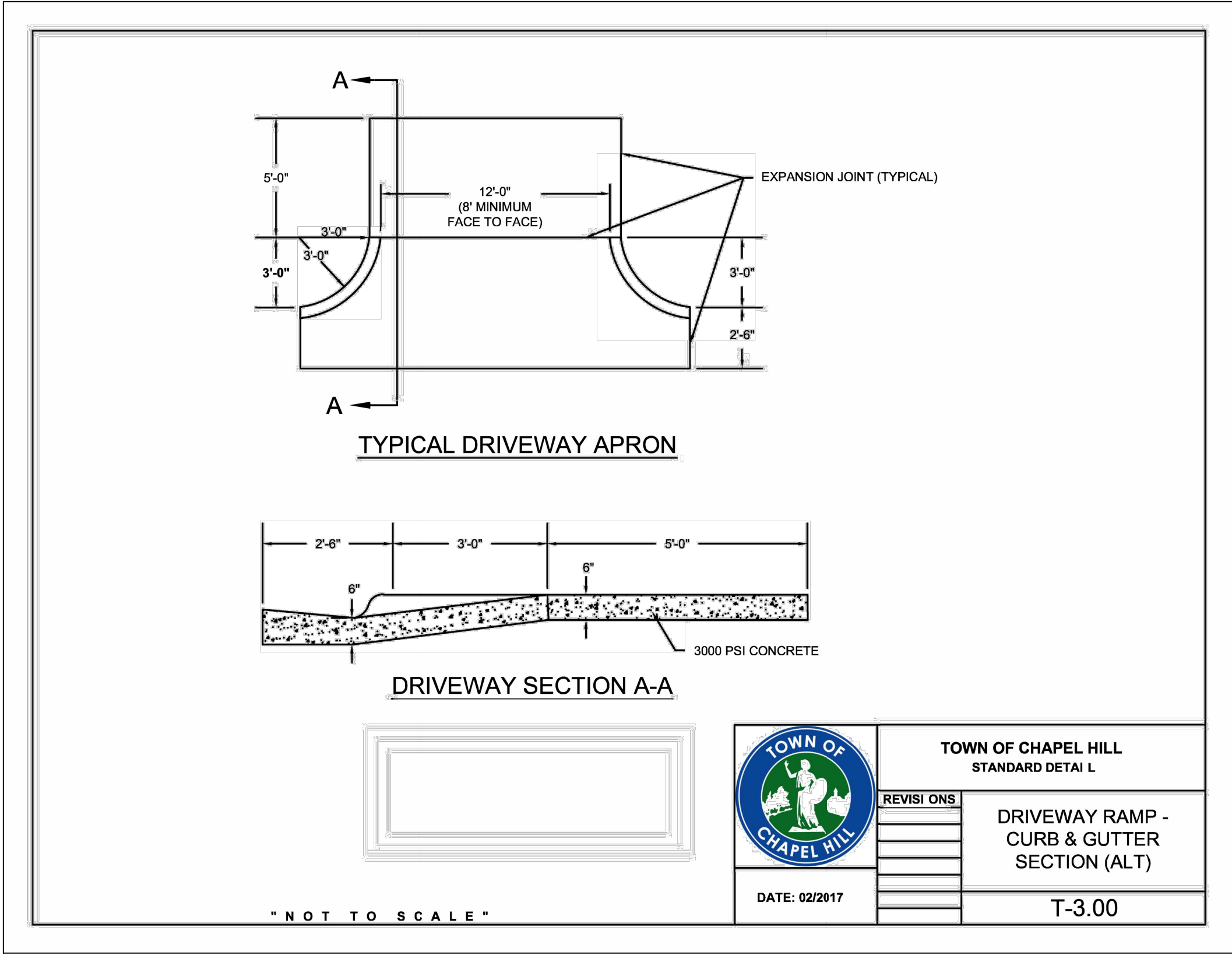
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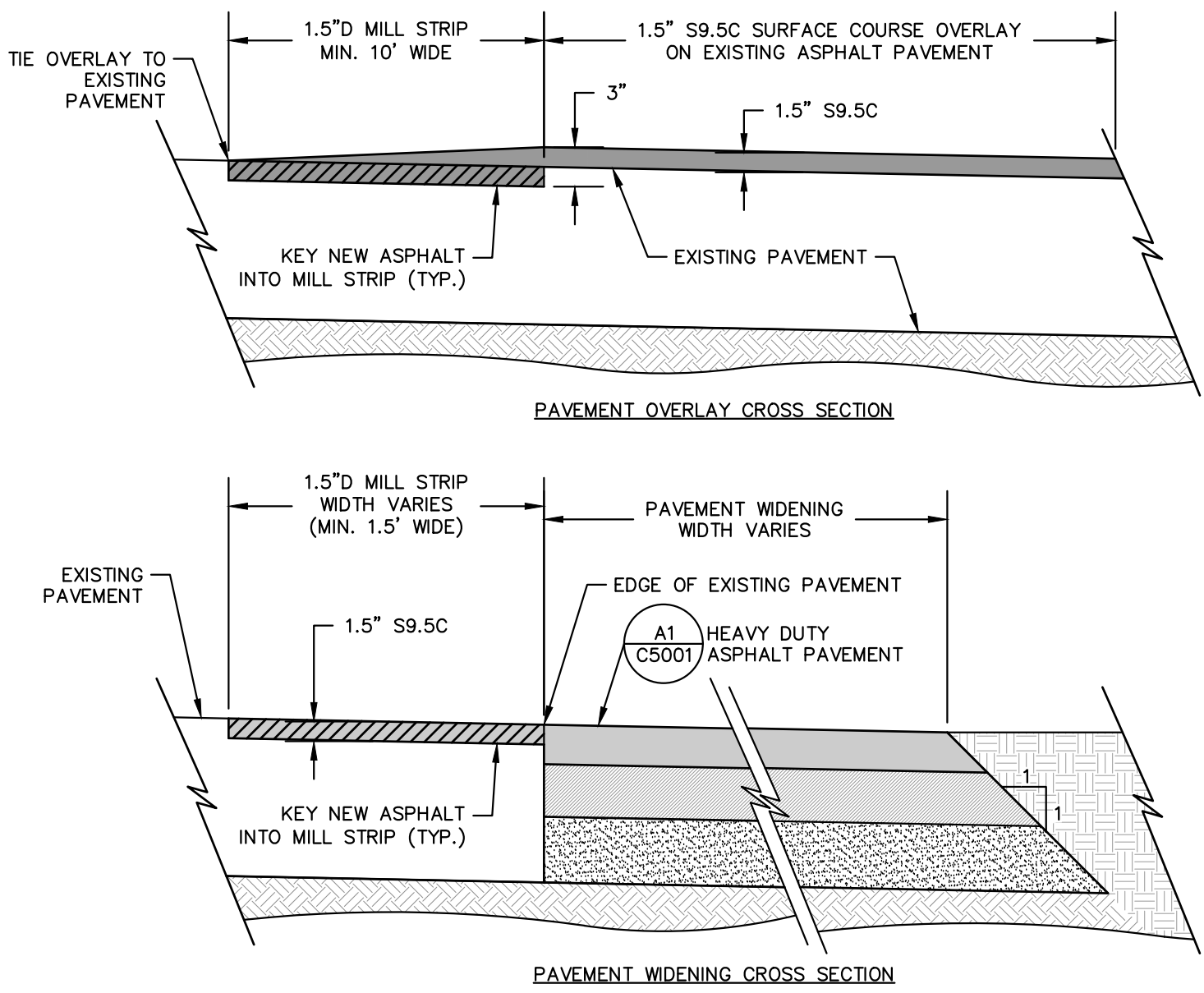
**NORTH STREET
PIPE REPLACEMENT
110 & 116 NORTH STREET
CHAPEL HILL, NORTH CAROLINA**

CONSTRUCTION DRAWINGS

JOB NUMBER: 119016.06
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SCALE: AS NOTED
DRAWN BY: R.M.N.
REVIEWED BY: K.W.J.



DRIVEWAY RAMP CURB AND GUTTER SECTION
C2 C5501 SCALE: NTS



TYPICAL PAVEMENT MILLING
A2 C5501 SCALE: NTS

SITE DETAILS

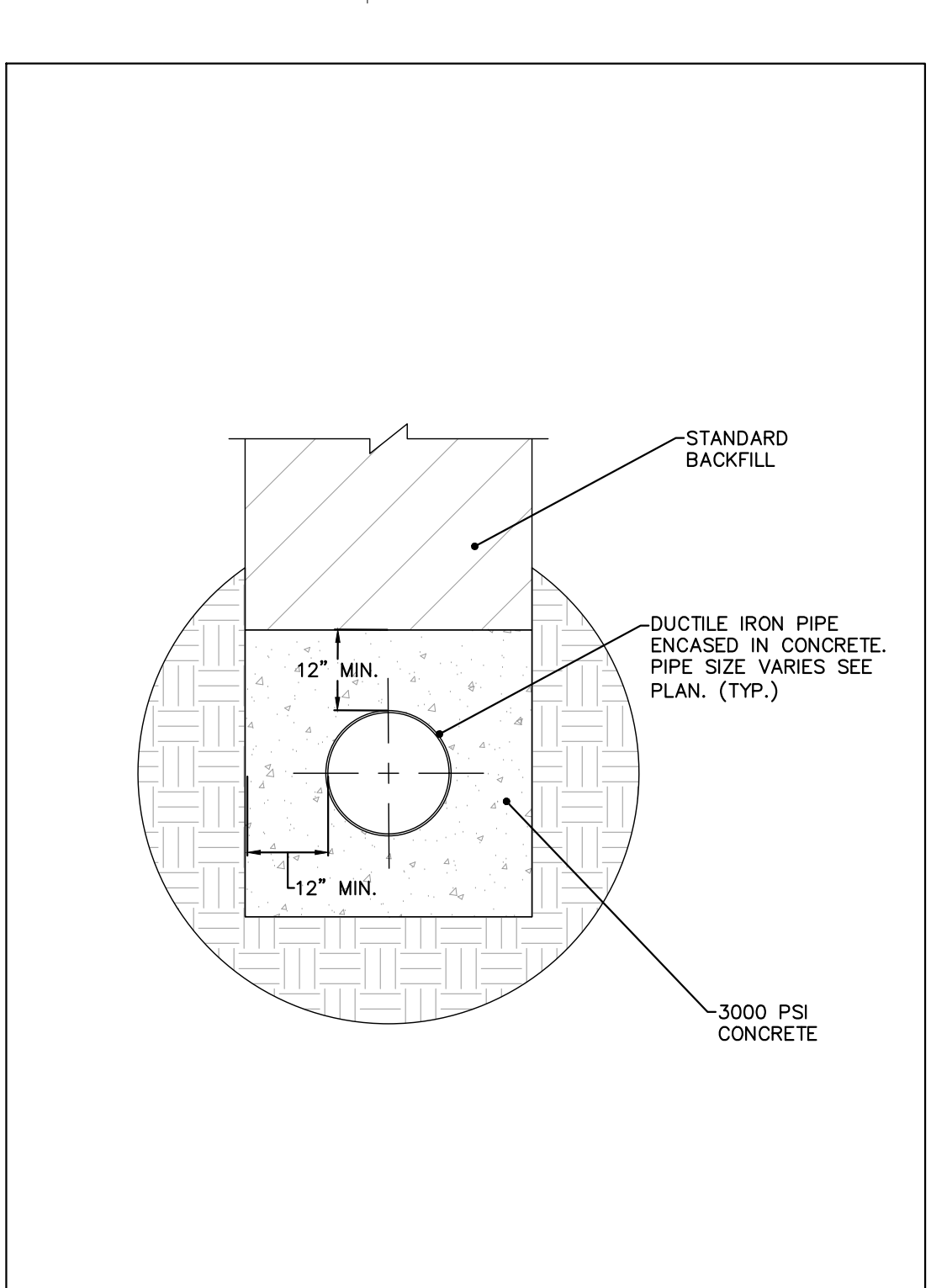
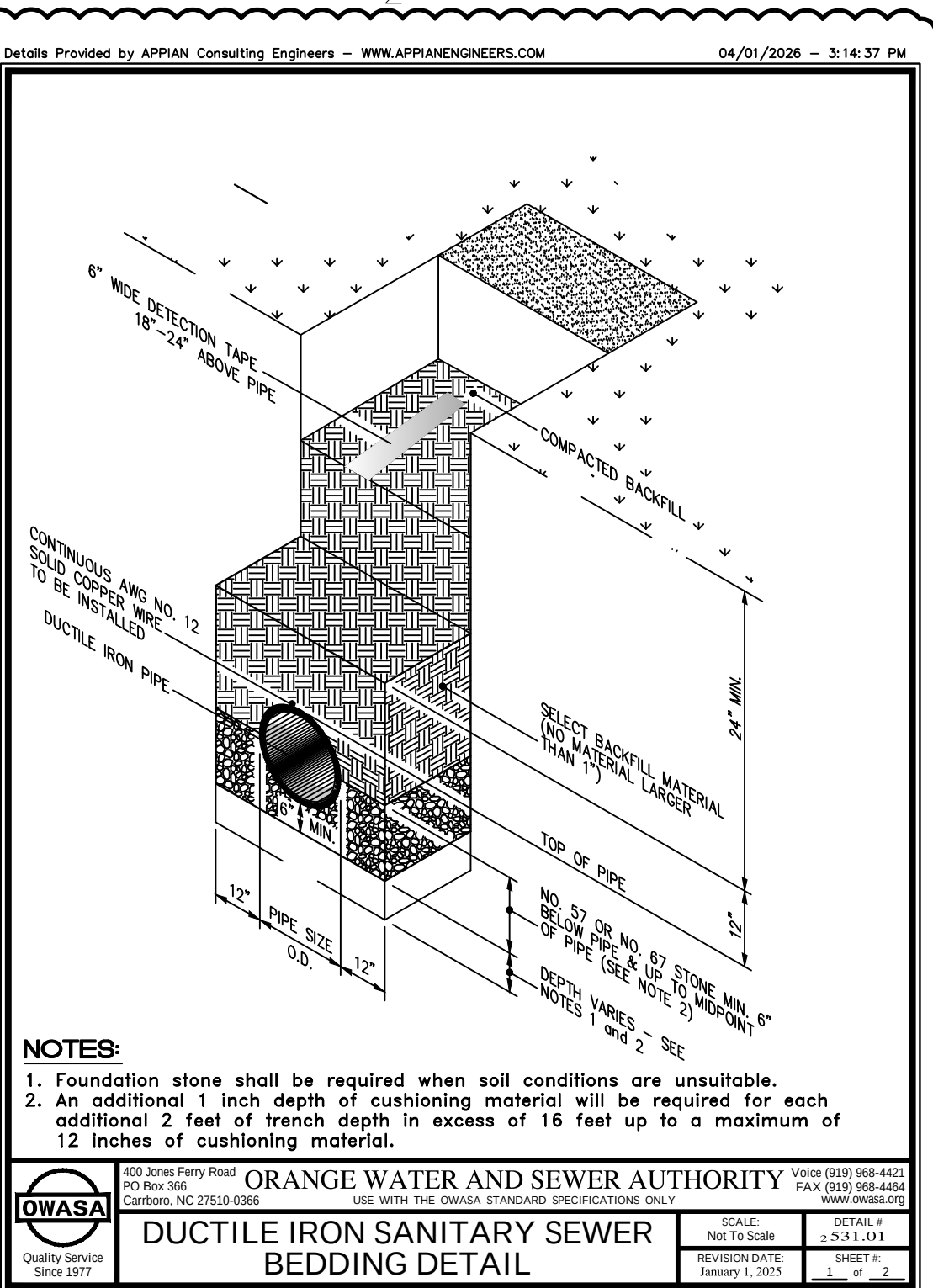
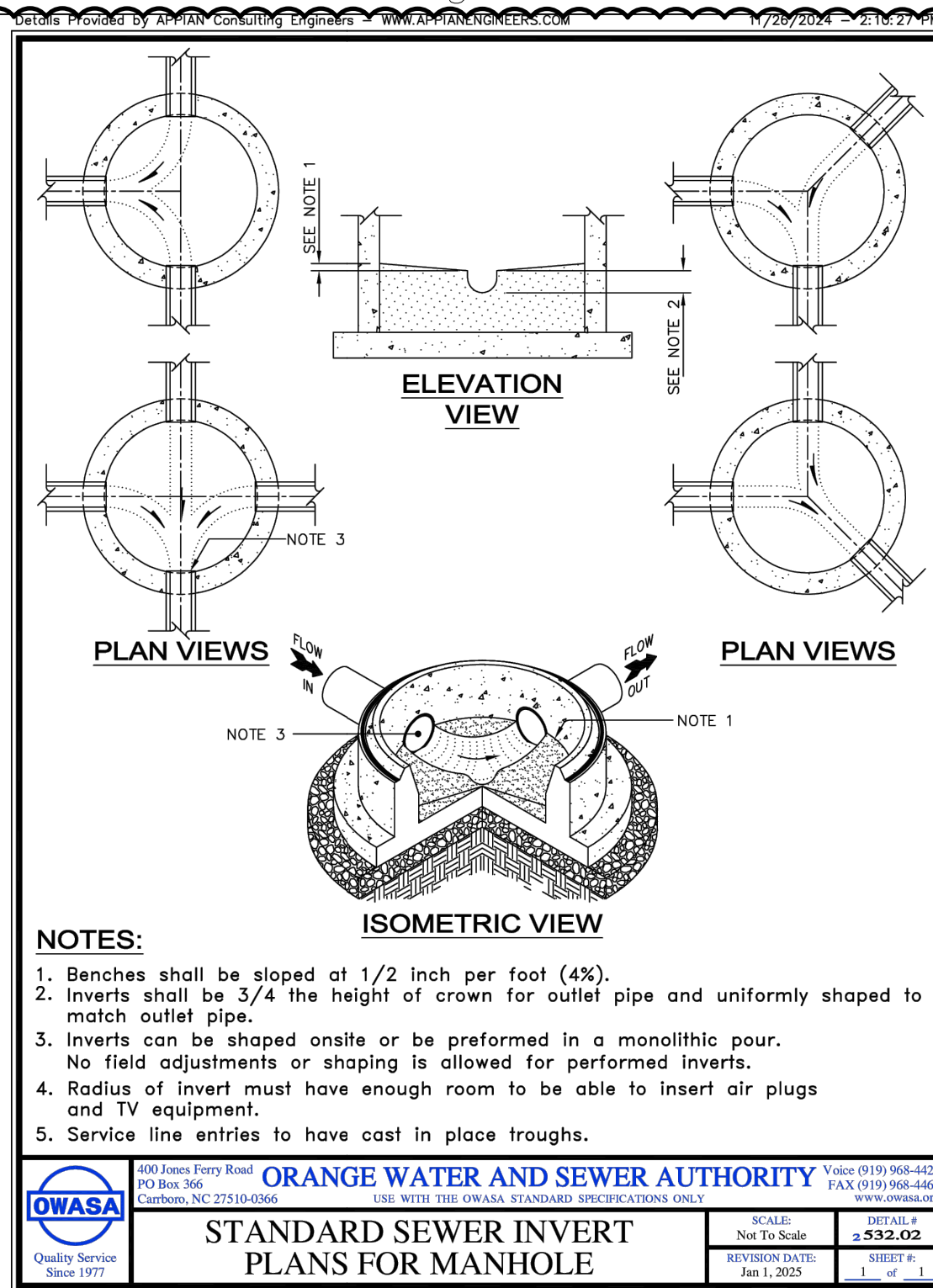
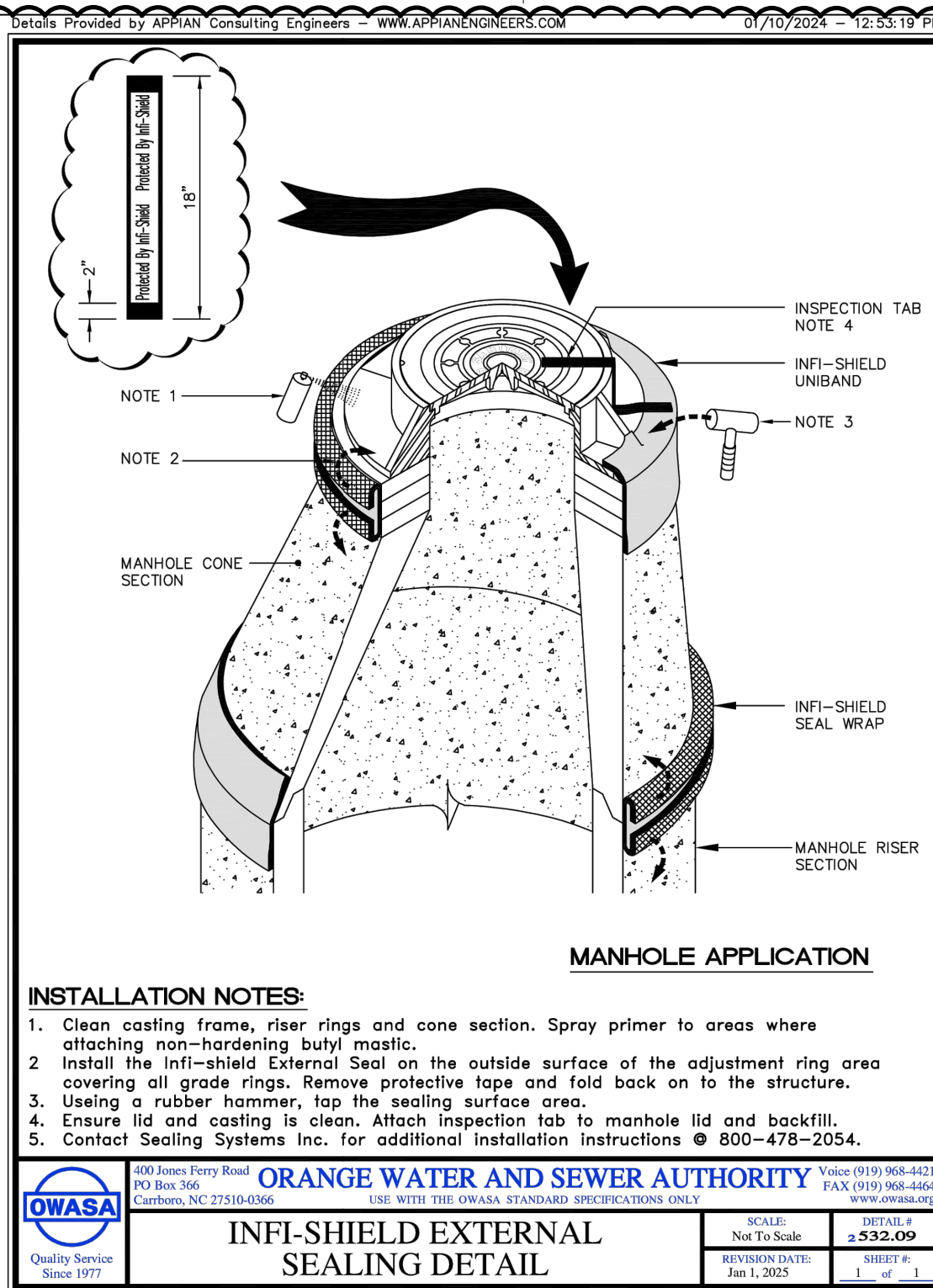
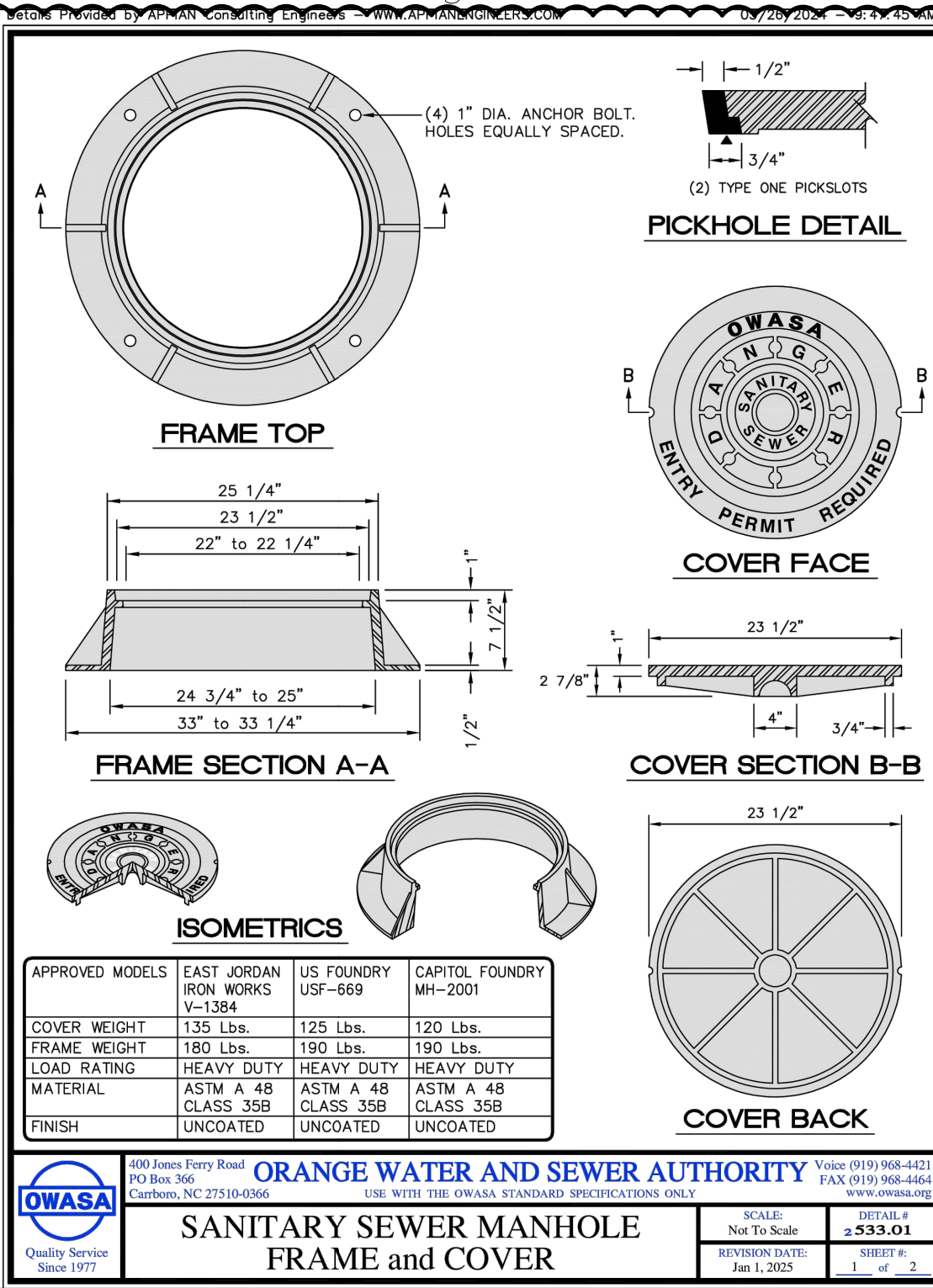
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OWNER INFORMATION
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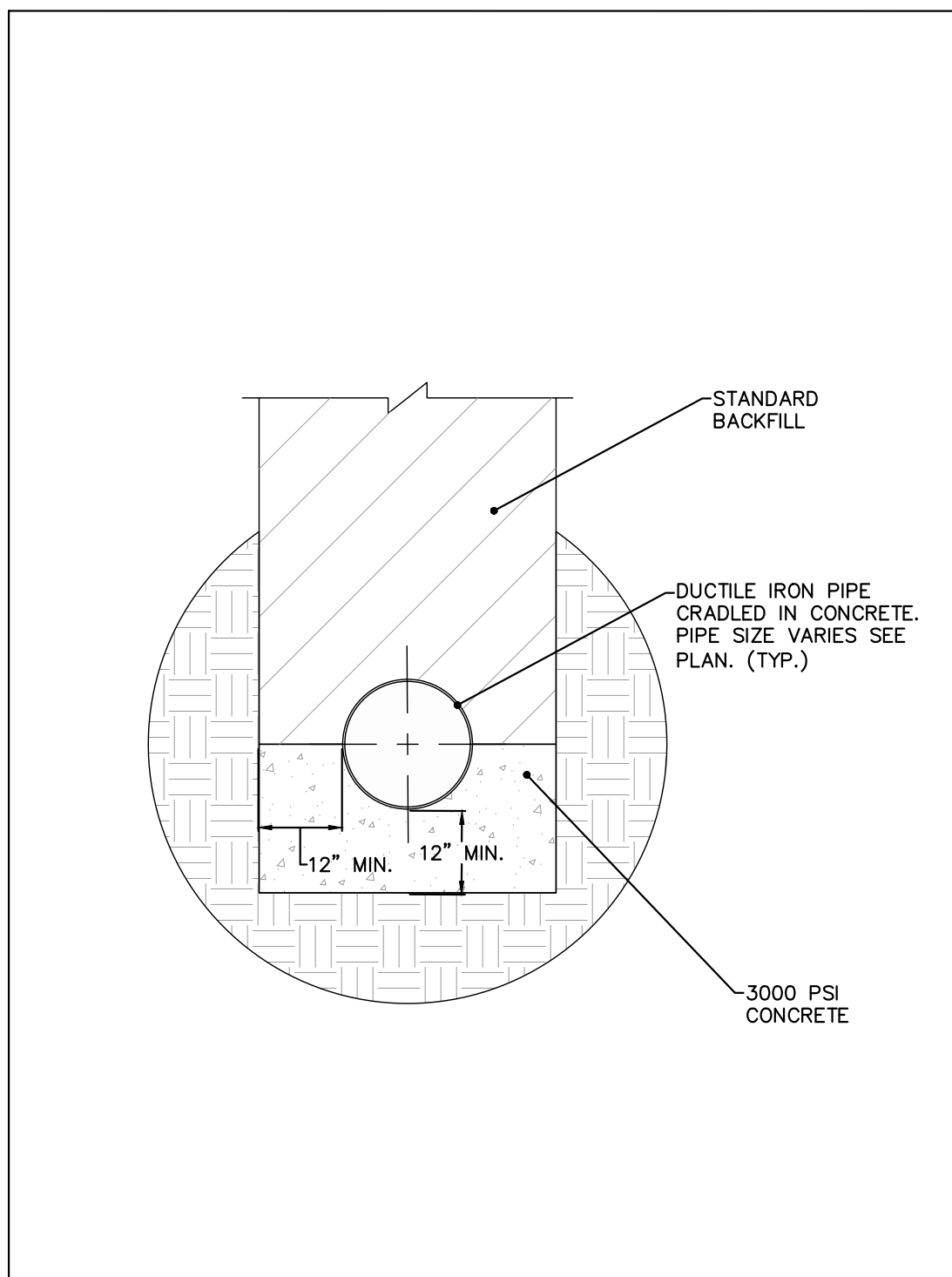
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SCALE: NTS

C4
C5101
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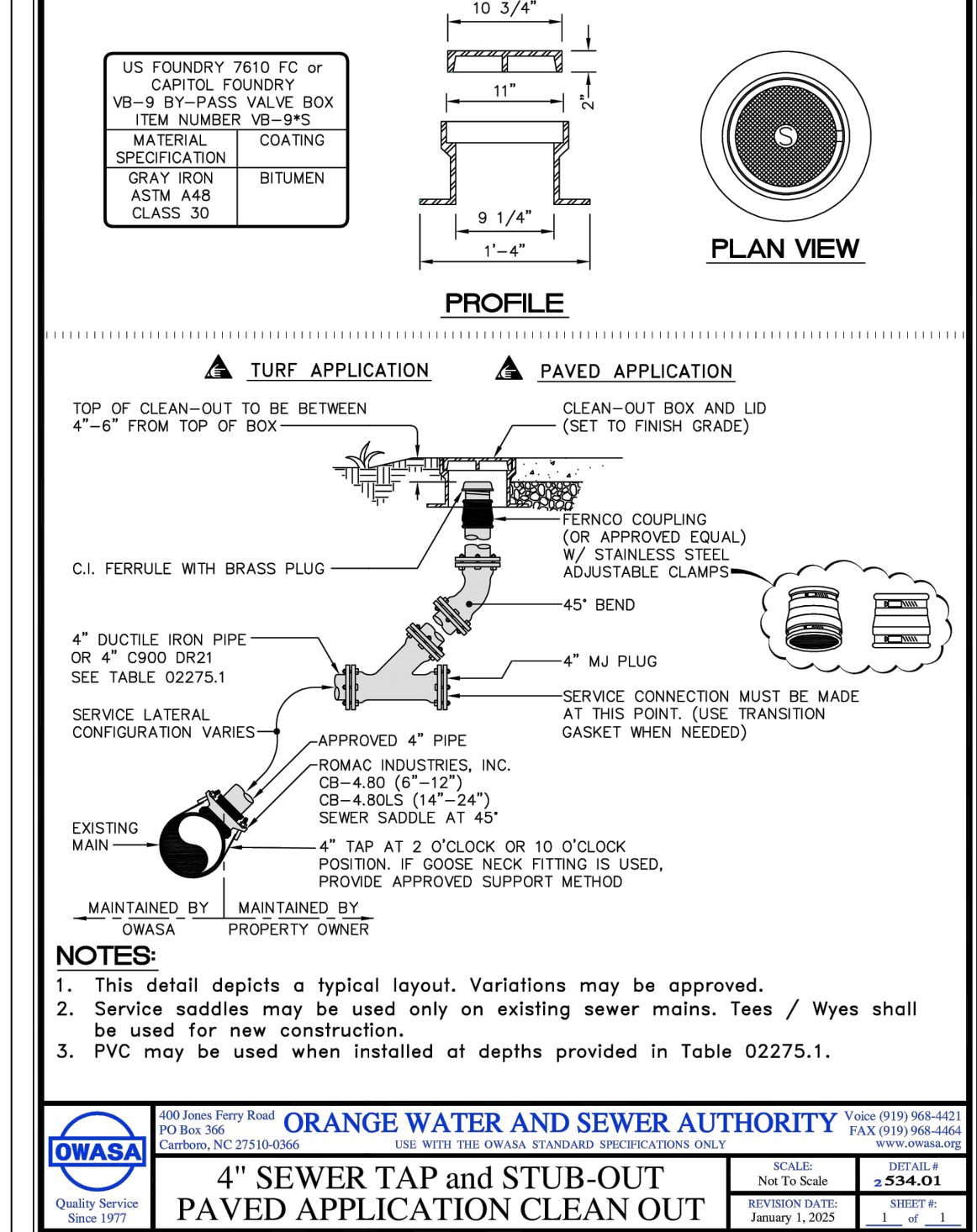
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C5101
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SCALE: NTS

C2
C5101
SAN. SEWER BEDDING FOR DUCTILE IRON PIPE
SCALE: NTS

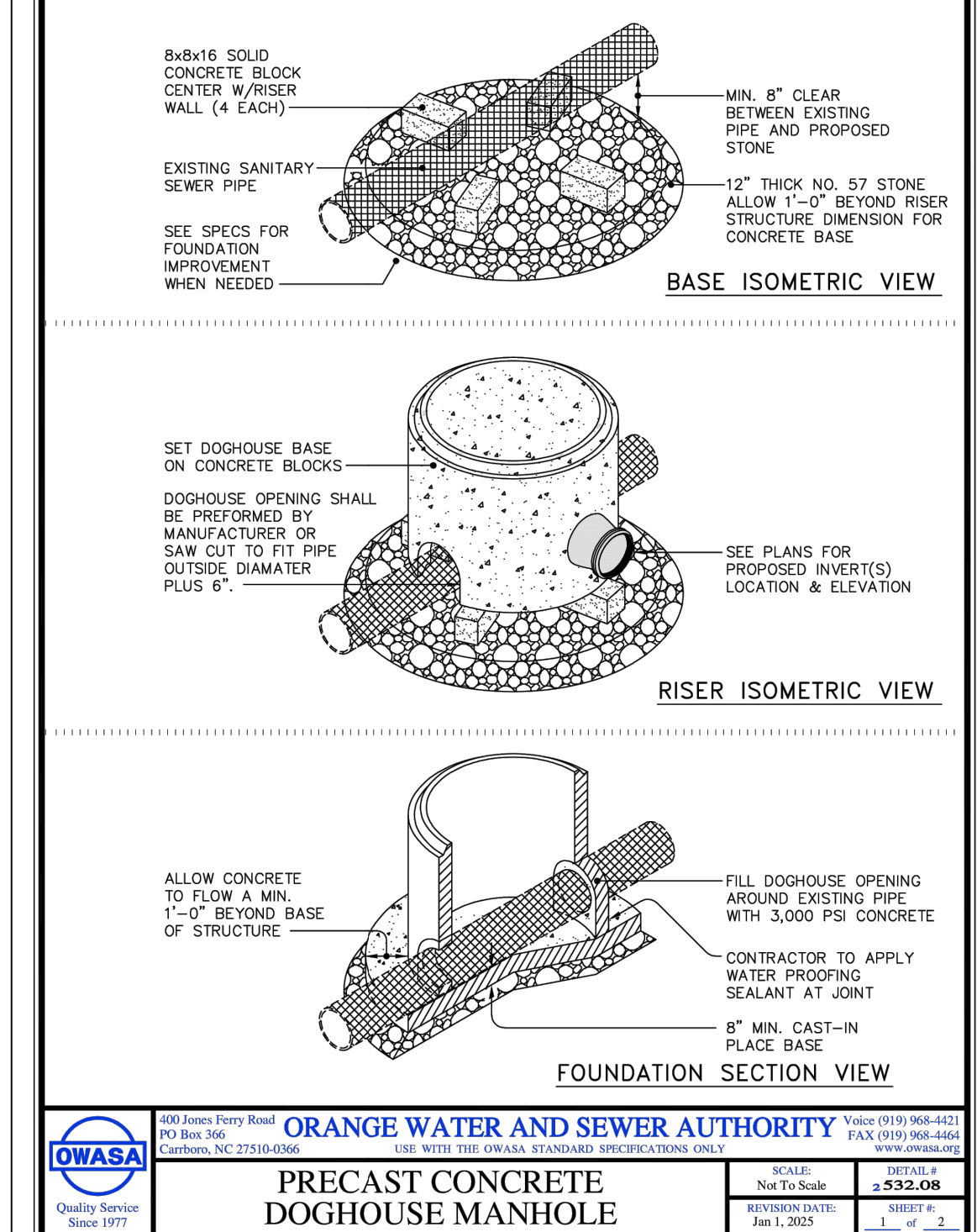
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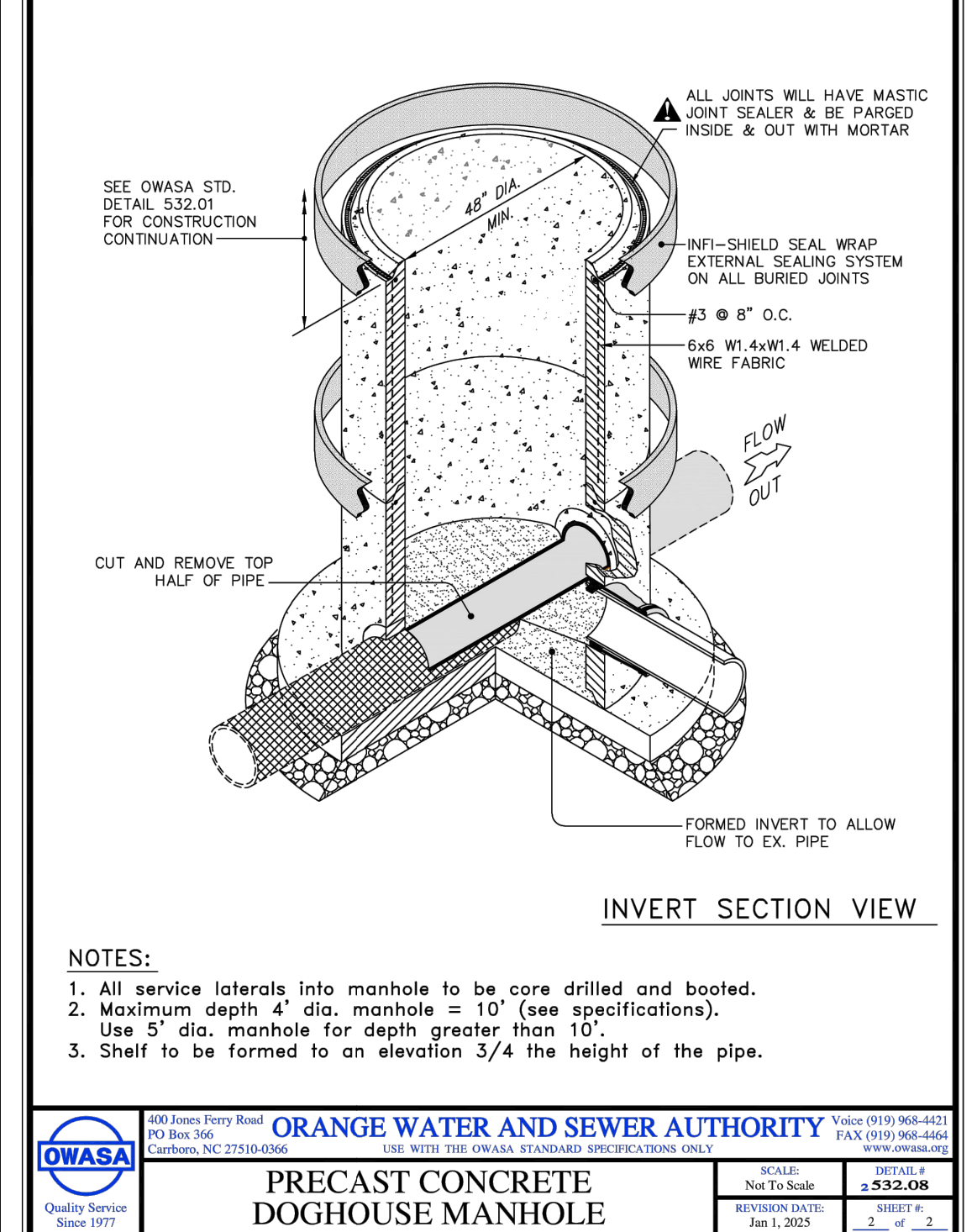
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A4
C5101
SAN. SEWER PIPE INVERT
SCALE: NTS



A2
C5101
PRECAST CONCRETE DOGHOUSE MANHOLE
SCALE: NTS



**NORTH STREET
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**SHEET
C5101**

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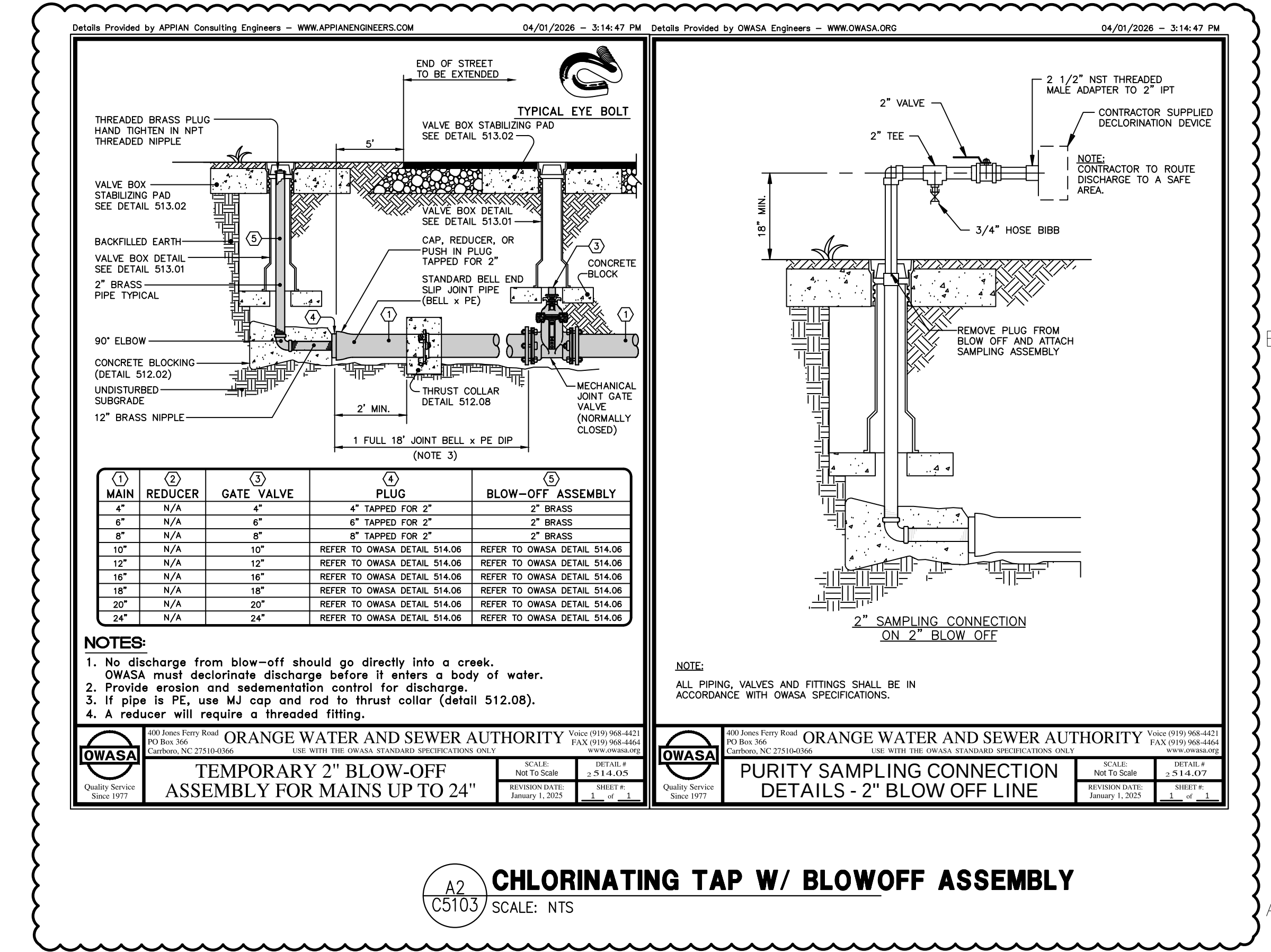
Professional Engineer Seal
NORTH CAROLINA
054365
01 APR 26
ENGINEER
KENNETH W. JUD

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UTILITY DETAILS



UTILITY DETAILS

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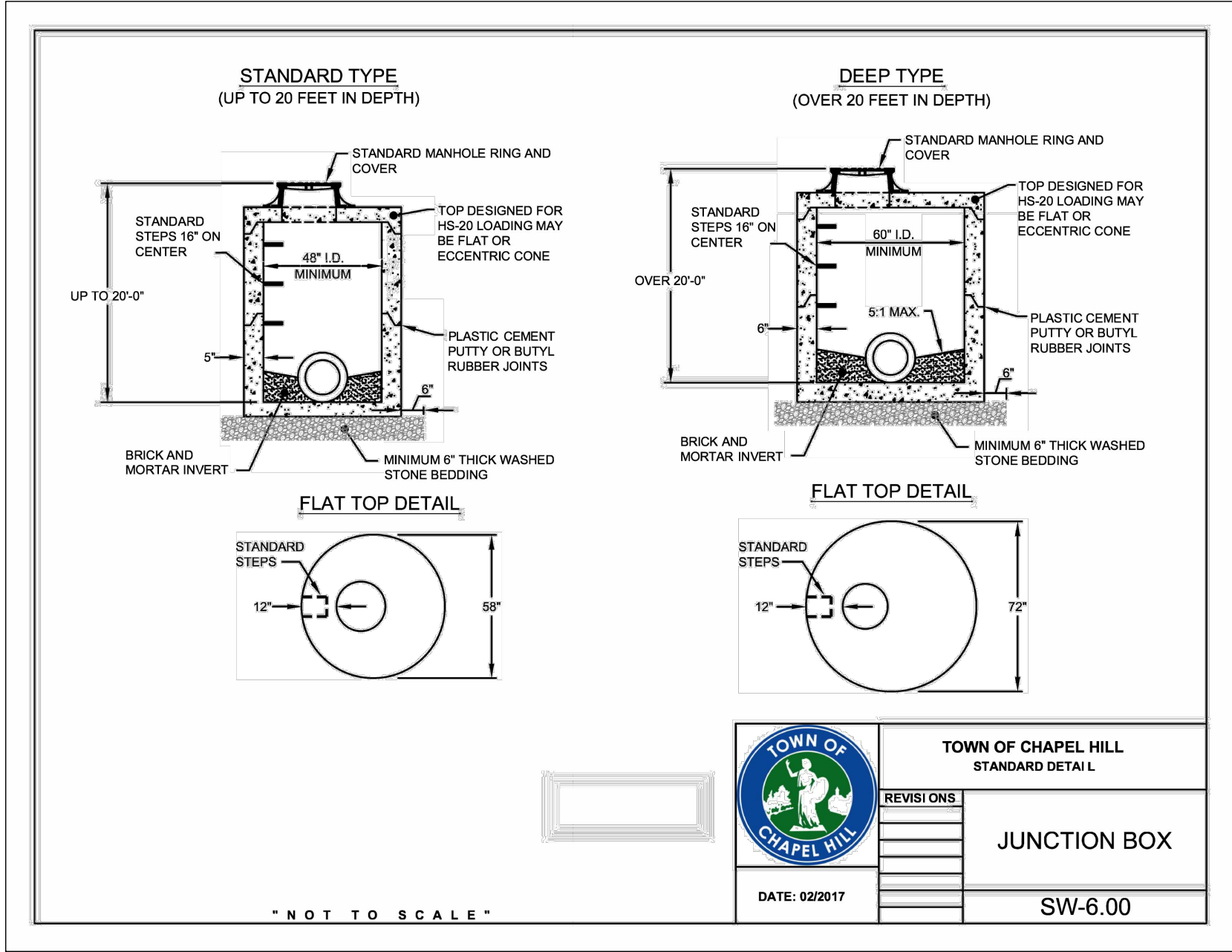
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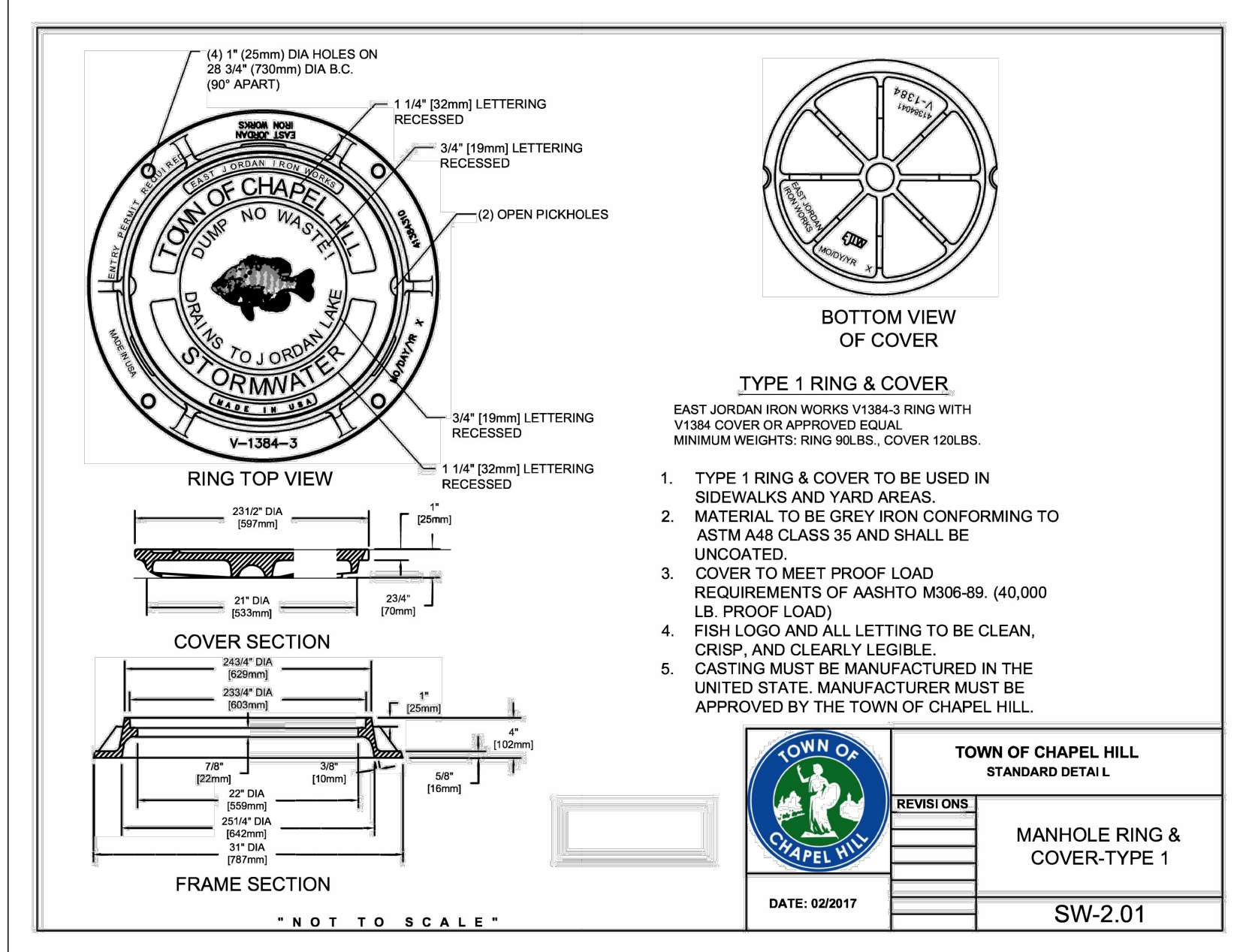
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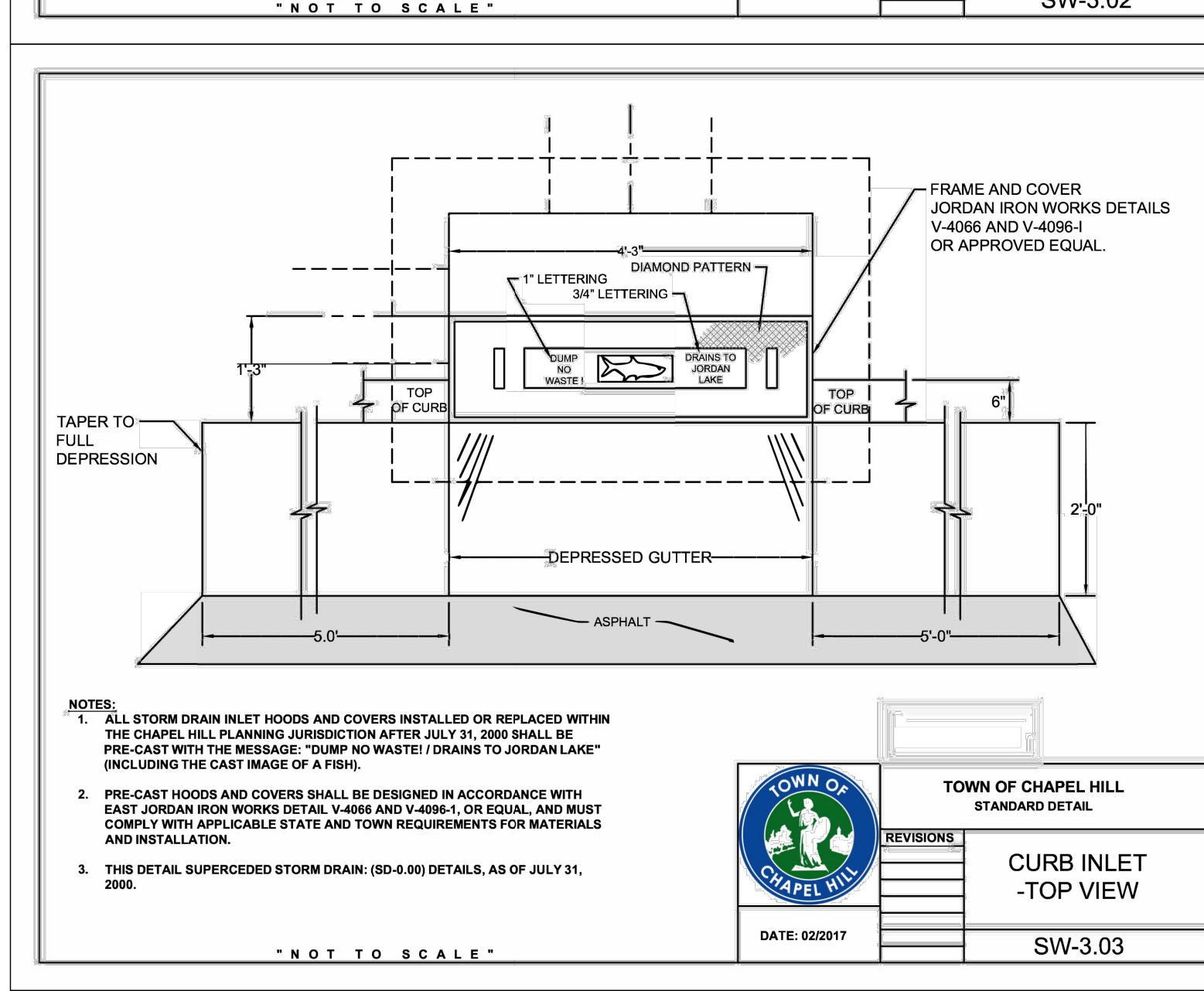
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C5103**



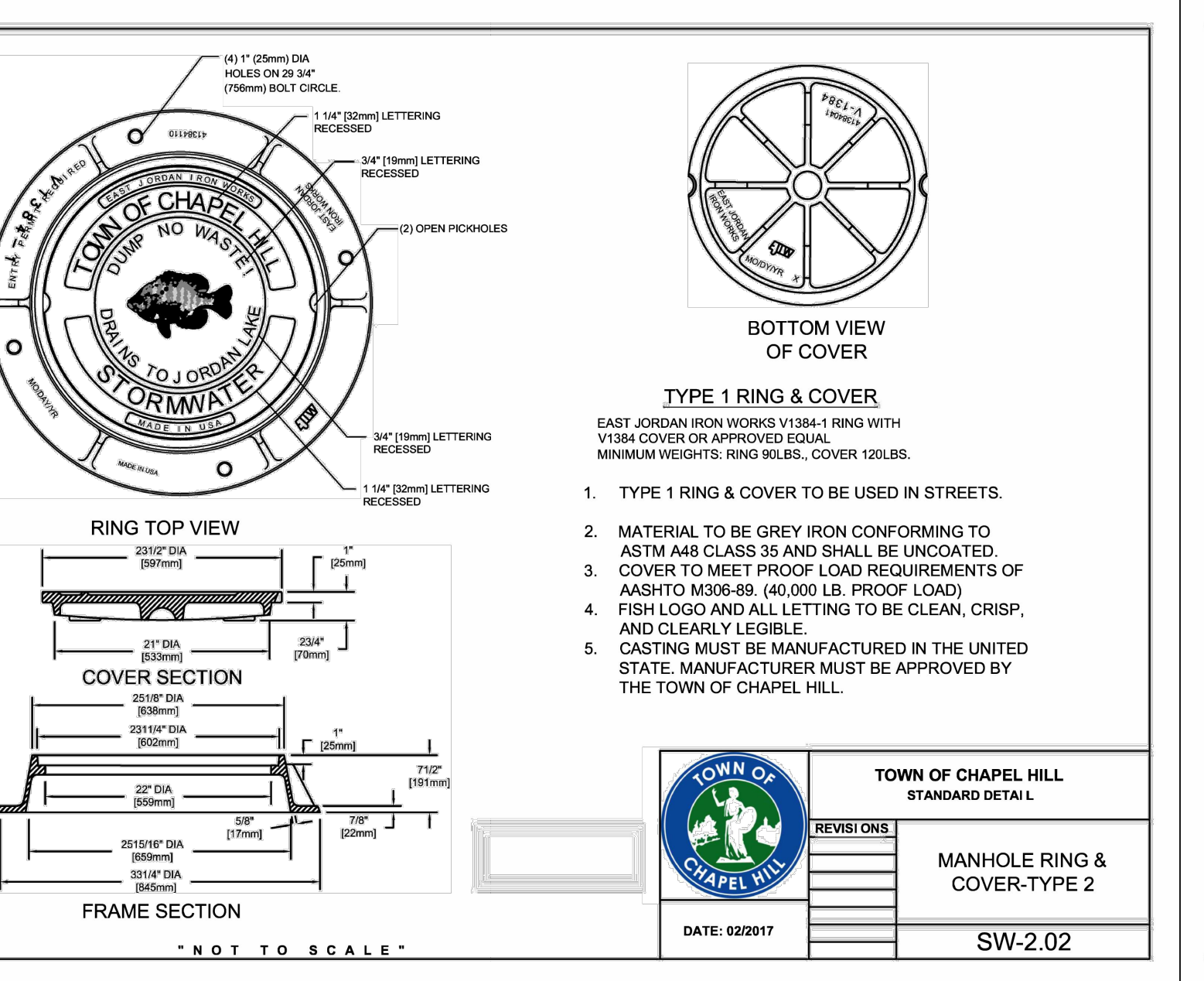
B5 STORM JUNCTION BOX
C5201 SCALE: NTS



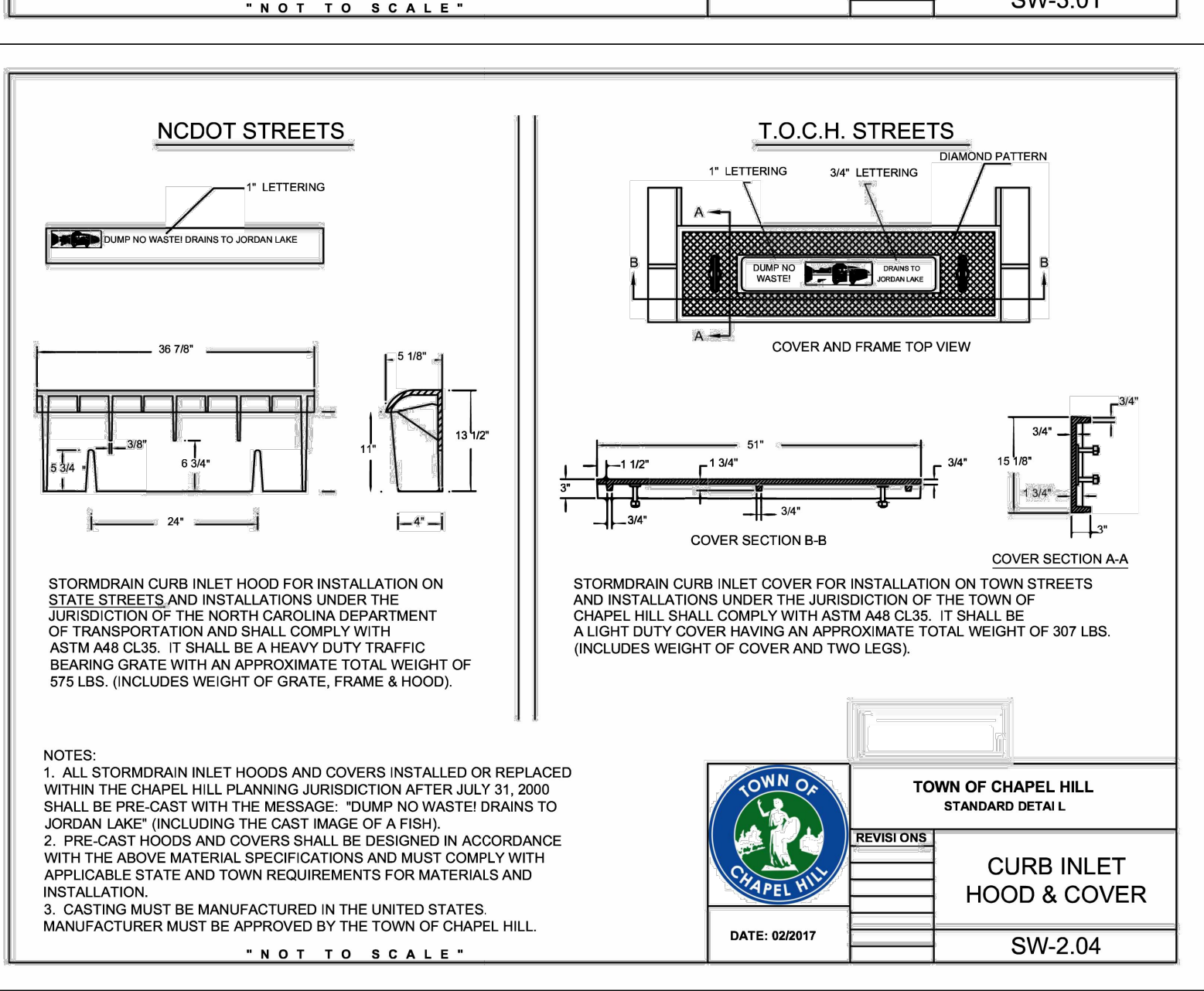
A3 STORM MANHOLE RING AND COVERS
C5201 SCALE: NTS



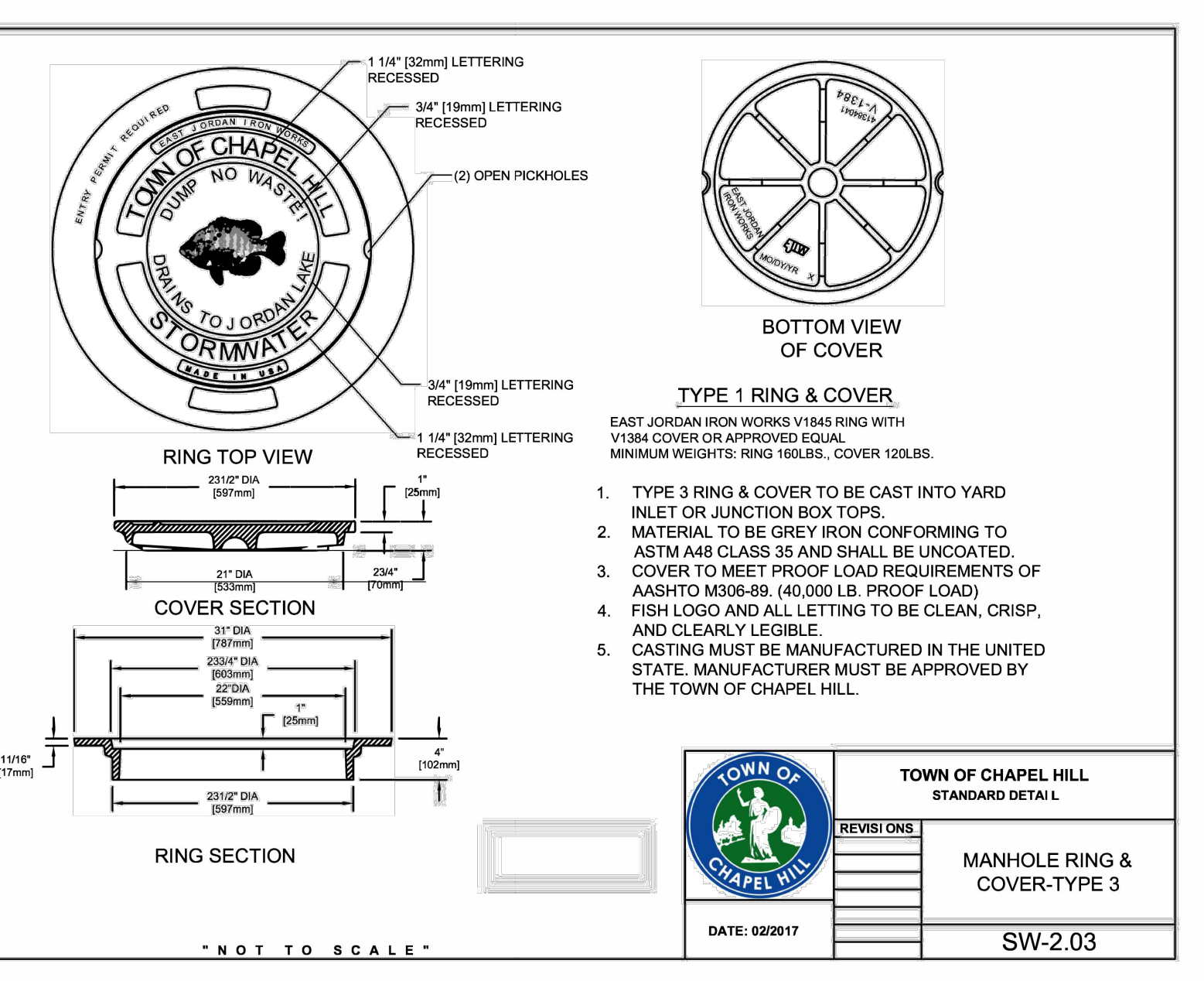
B2 CURB INLET
C5201 SCALE: NTS



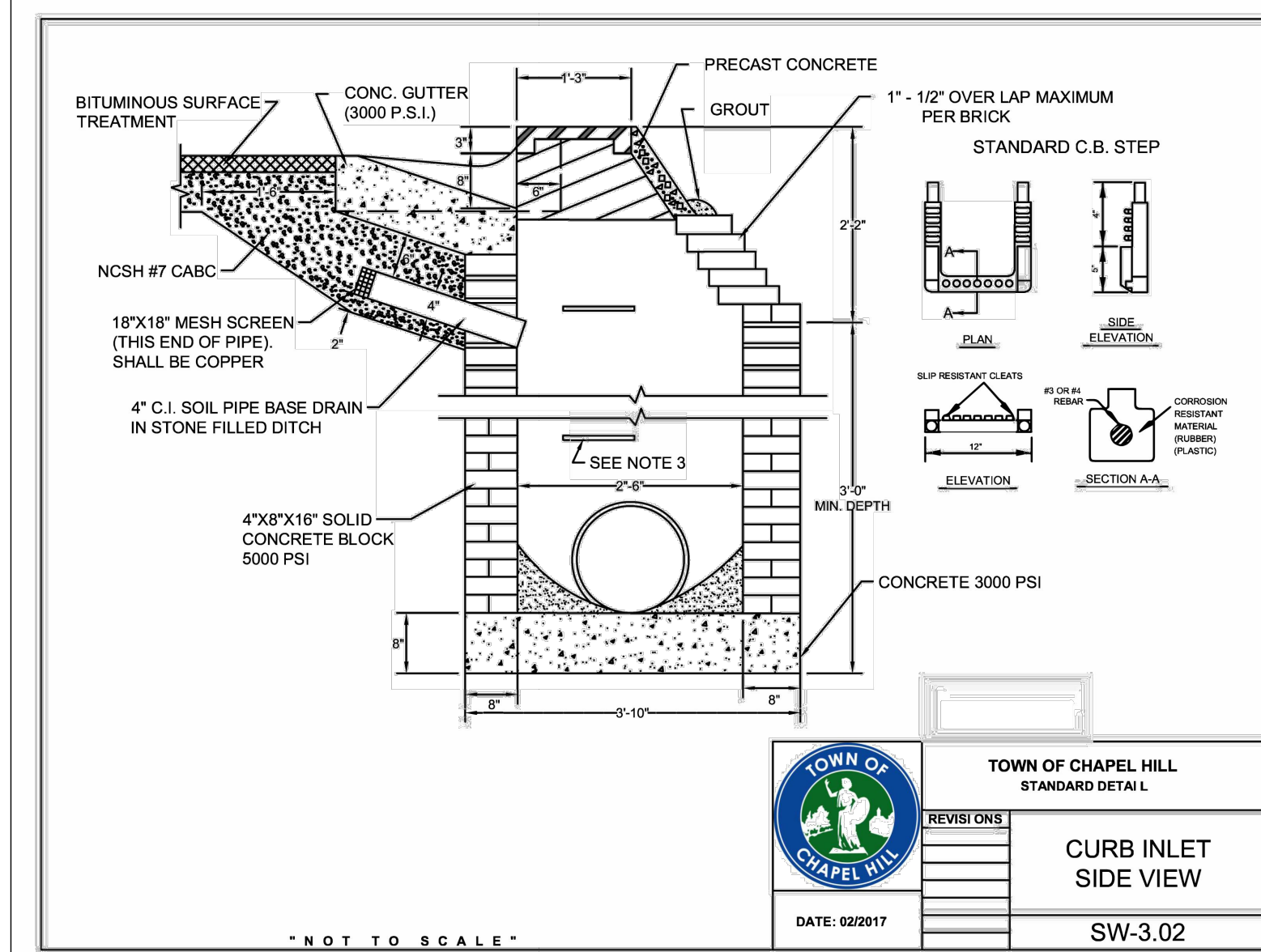
A3 STORM MANHOLE RING AND COVERS
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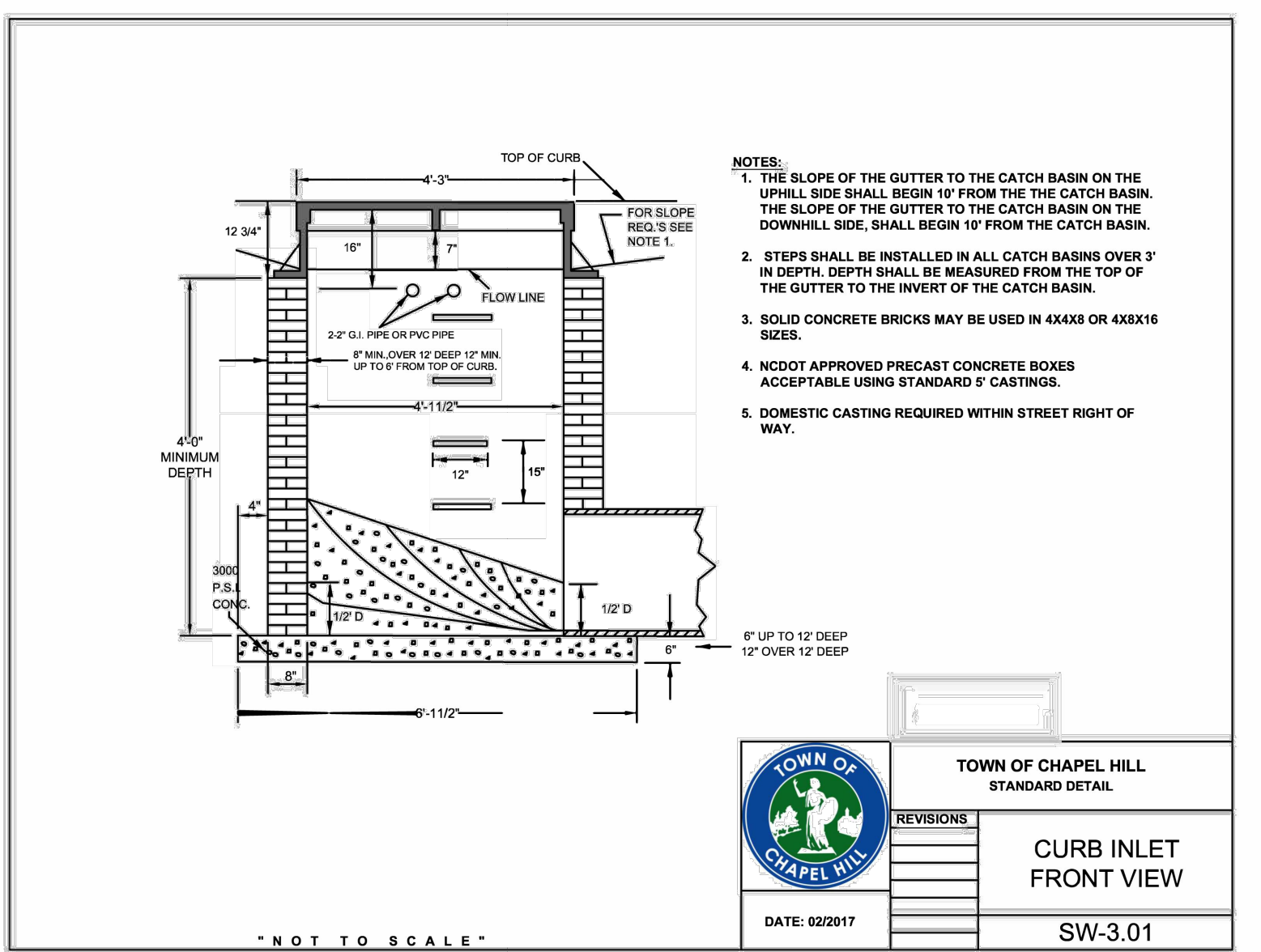
B2 CURB INLET
C5201 SCALE: NTS



A3 STORM MANHOLE RING AND COVERS
C5201 SCALE: NTS



TOWN OF CHAPEL HILL
STANDARD DETAIL
CURB INLET
SIDE VIEW
SW-3.02



TOWN OF CHAPEL HILL
STANDARD DETAIL
CURB INLET
FRONT VIEW
SW-3.01

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Professional Engineer
054365
01 APR 25
KIMMETH W. JUD

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110 & 116 NORTH STREET
CHAPEL HILL, NORTH CAROLINA**
CONSTRUCTION DRAWINGS

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REVIEWED BY: K.W.J.

**SHEET
C5201**



NORTH STREET PIPE REPLACEMENT 110 & 116 NORTH STREET CHAPEL HILL, NORTH CAROLINA

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SHEET

C5202

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OWNER INFORMATION

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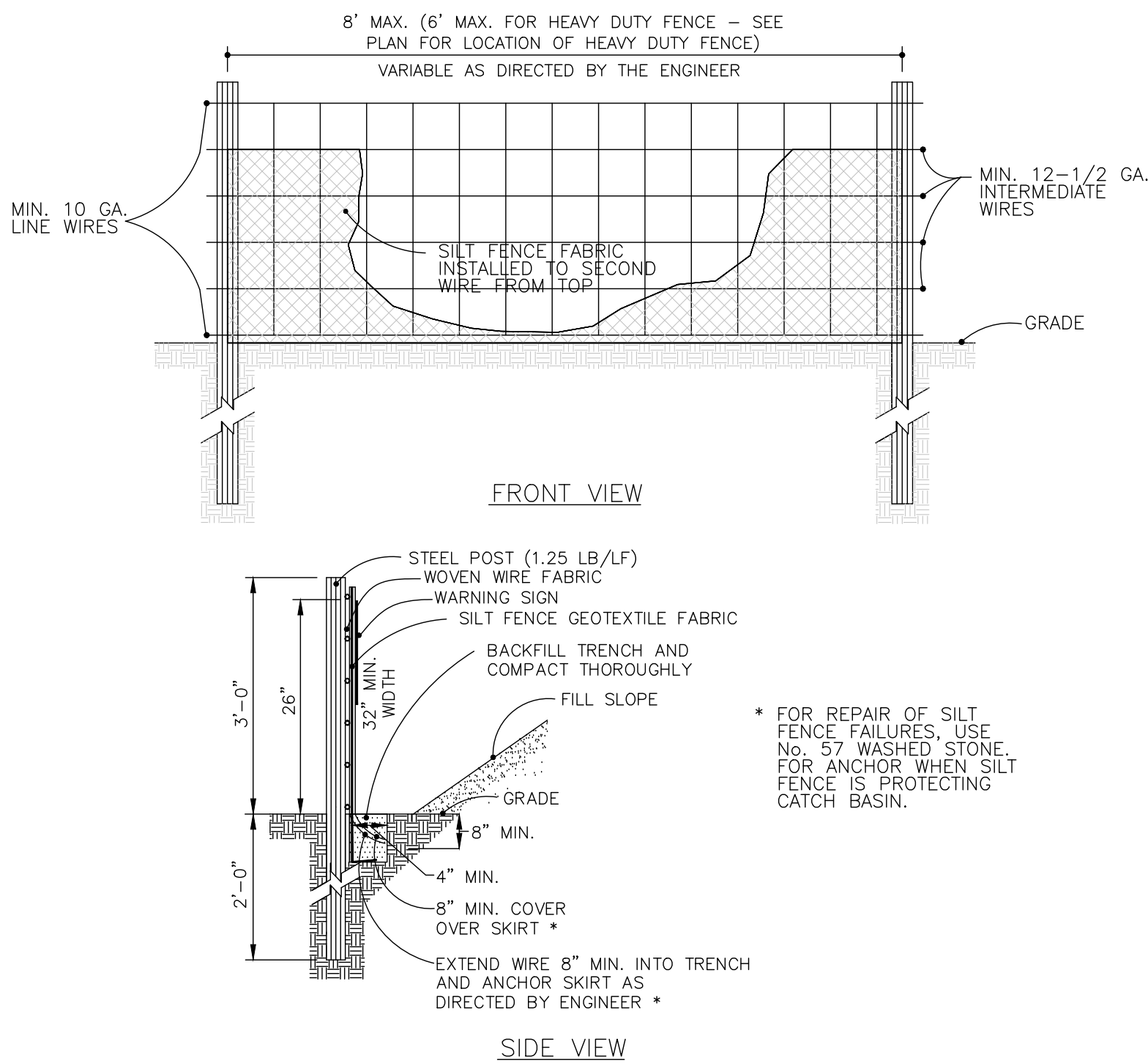
CORPORATE	NORTH CAROLINA
Bullentine Associates, P.A.	114 Chapel Hill, NC 27514

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NOTE:

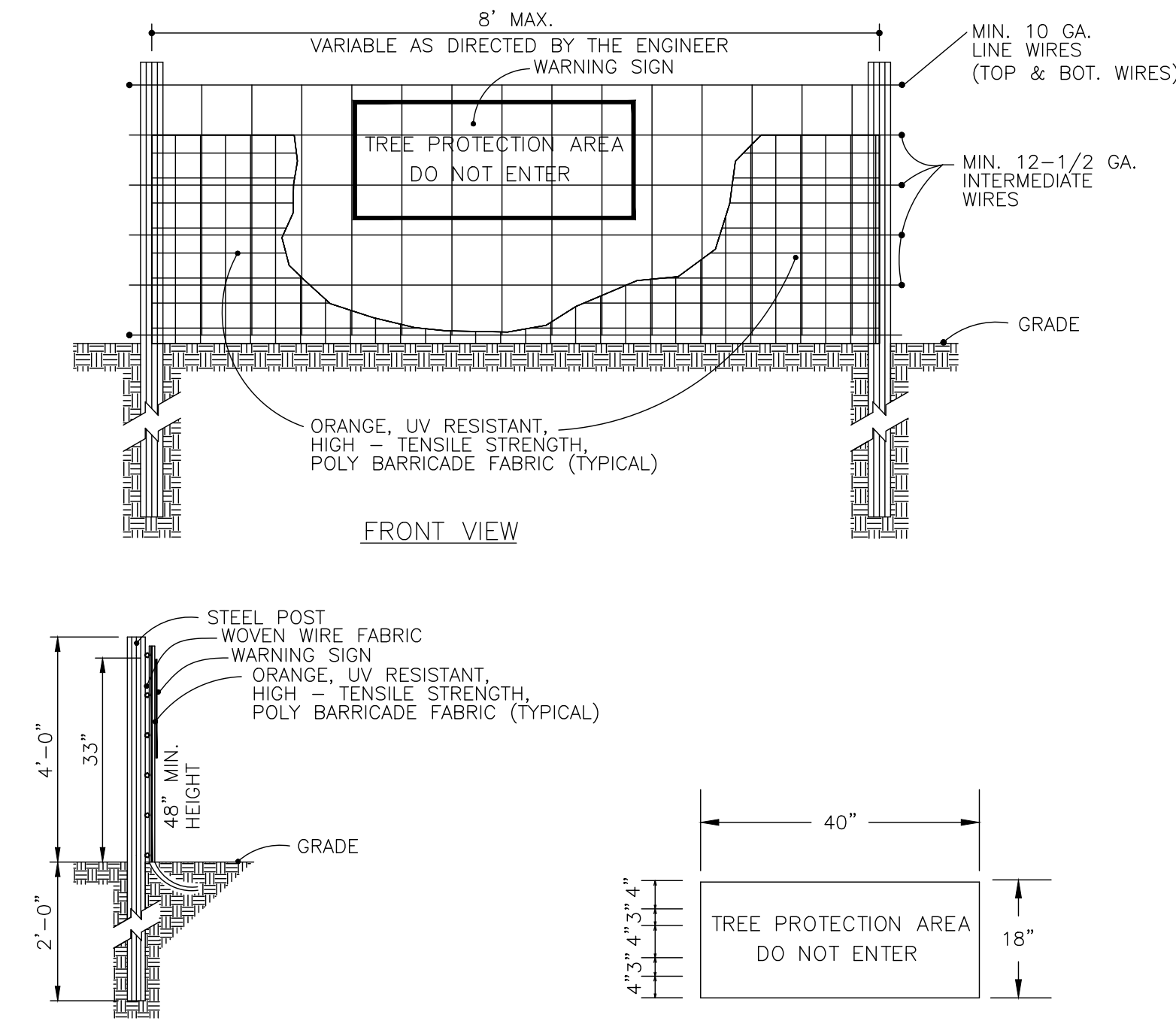
- USE SILT FENCE ONLY WHEN DRAINAGE AREA DOES NOT EXCEED 1/4 ACRE AND NEVER IN AREAS OF CONCENTRATED FLOW
- END OF SILT FENCE NEEDS TO BE TURNED UPHILL.

MAINTENANCE:

- INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
- SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
- REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
- REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

B5 TEMPORARY SILT FENCE

SCALE: N.T.S.



NOTE:

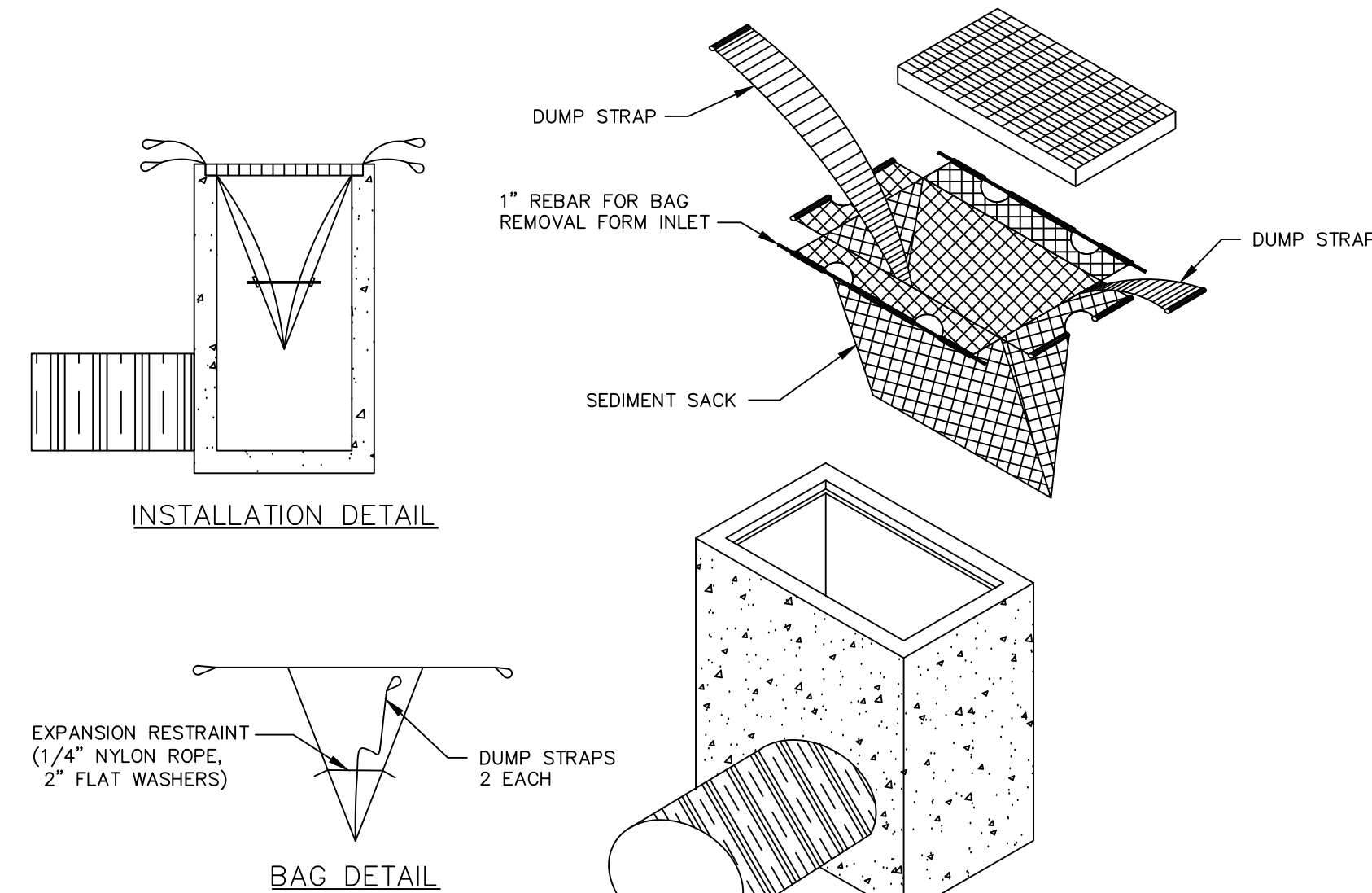
- WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL.
- LETTERS TO BE 3" HIGH MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED.
- SIGNS SHALL BE PLACED AT 50' MAXIMUM INTERVALS.
- PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER THEREAFTER.
- FOR TREE PROTECTION AREAS LESS THAN 200' IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER PROTECTION AREA.
- ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC.
- MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT.
- ADDITIONAL SIGNS MAY BE REQUIRED BY TOWN OF ARDEN INSPECTIONS DEPARTMENT BASED ON ACTUAL FIELD CONDITIONS.
- PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER THEREAFTER.

MAINTENANCE:

- MONITOR THE FENCE WEEKLY CHECK FOR ANY DAMAGE OR ANY OBSTRUCTIONS ON TOP OF THE FENCE.
- REPAIR AND/OR REPLACE FENCE AND SIGNS AS NEEDED FOR PROPER PROTECTION.

B3 TEMPORARY TREE PROTECTION FENCE

SCALE: N.T.S.



NOTE:

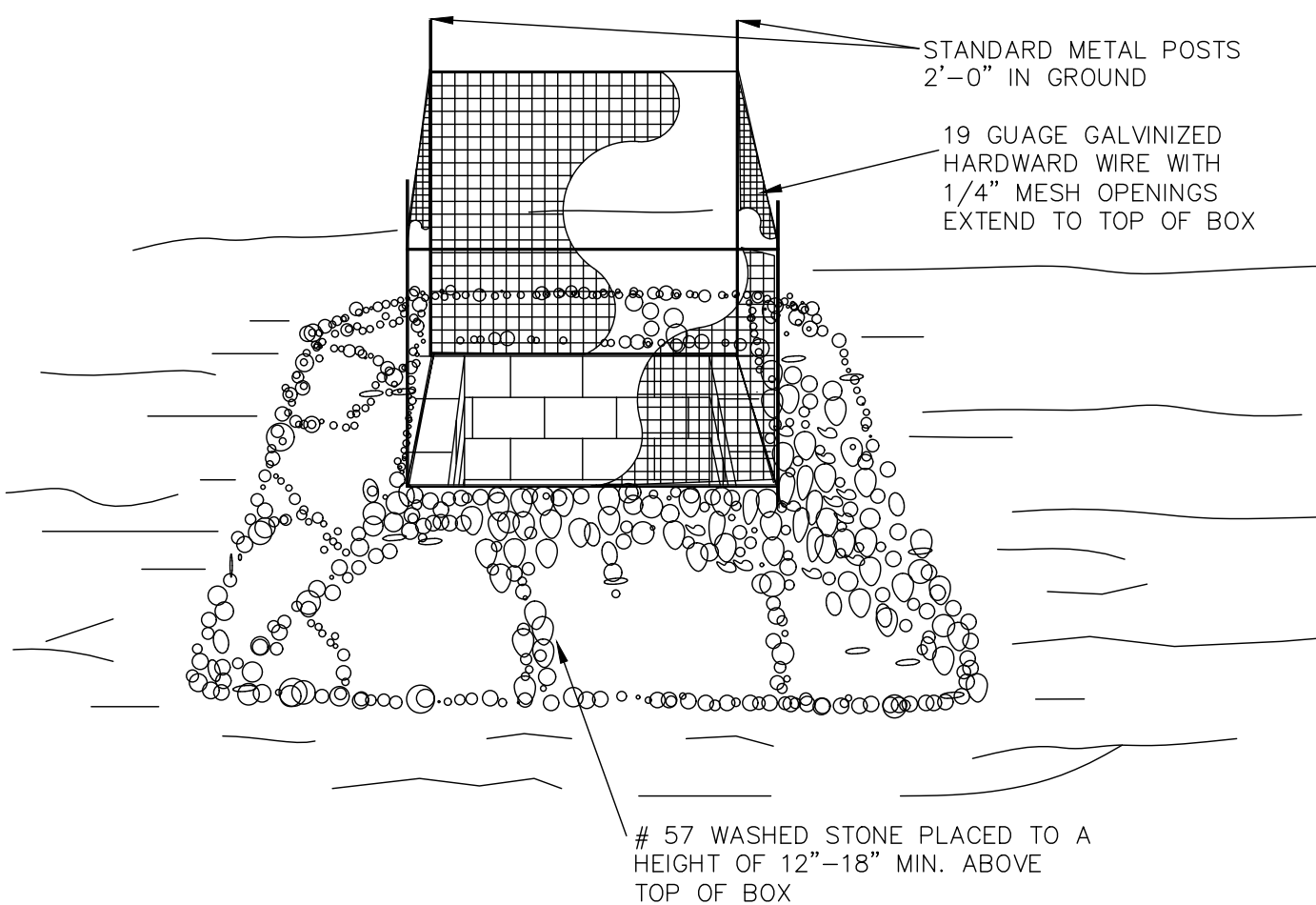
- SOME MUNICIPALITIES DO NOT ALLOW GUTTER PROTECTION ON PUBLIC ROADS. SILT BAGS SHOULD BE USED WITH THESE CASES.
- BAGS SHOULD BE CLEANED OUT AFTER EVERY RAIN EVENT AND/OR AS NEEDED.

MAINTENANCE:

- AFTER EACH RAINFALL, INSPECT ANY STRUCTURE FOR ANY DEBRIS OR SEDIMENT. CLEAN IT OUT AND/OR REPAIR AS NECESSARY.

B2 STANDARD SILT SACK-INLET SEDIMENT CONTROL DEVICE

SCALE: N.T.S.

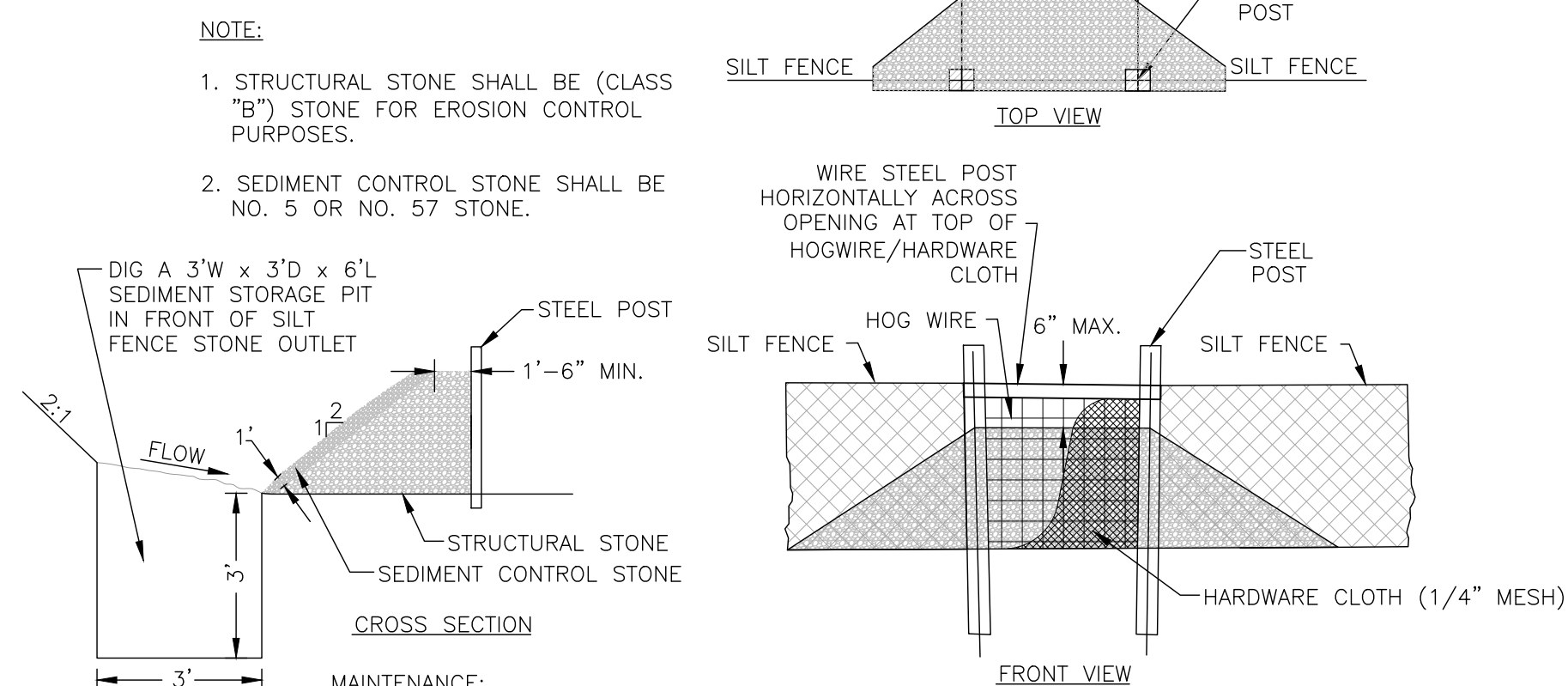


MAINTENANCE:

- AFTER EACH RAINFALL, INSPECT ANY STRUCTURE FOR ANY DEBRIS OR SEDIMENT. CLEAN IT OUT AND/OR REPAIR AS NECESSARY.

A5 TEMPORARY INLET PROTECTION

SCALE: N.T.S.



NOTE:

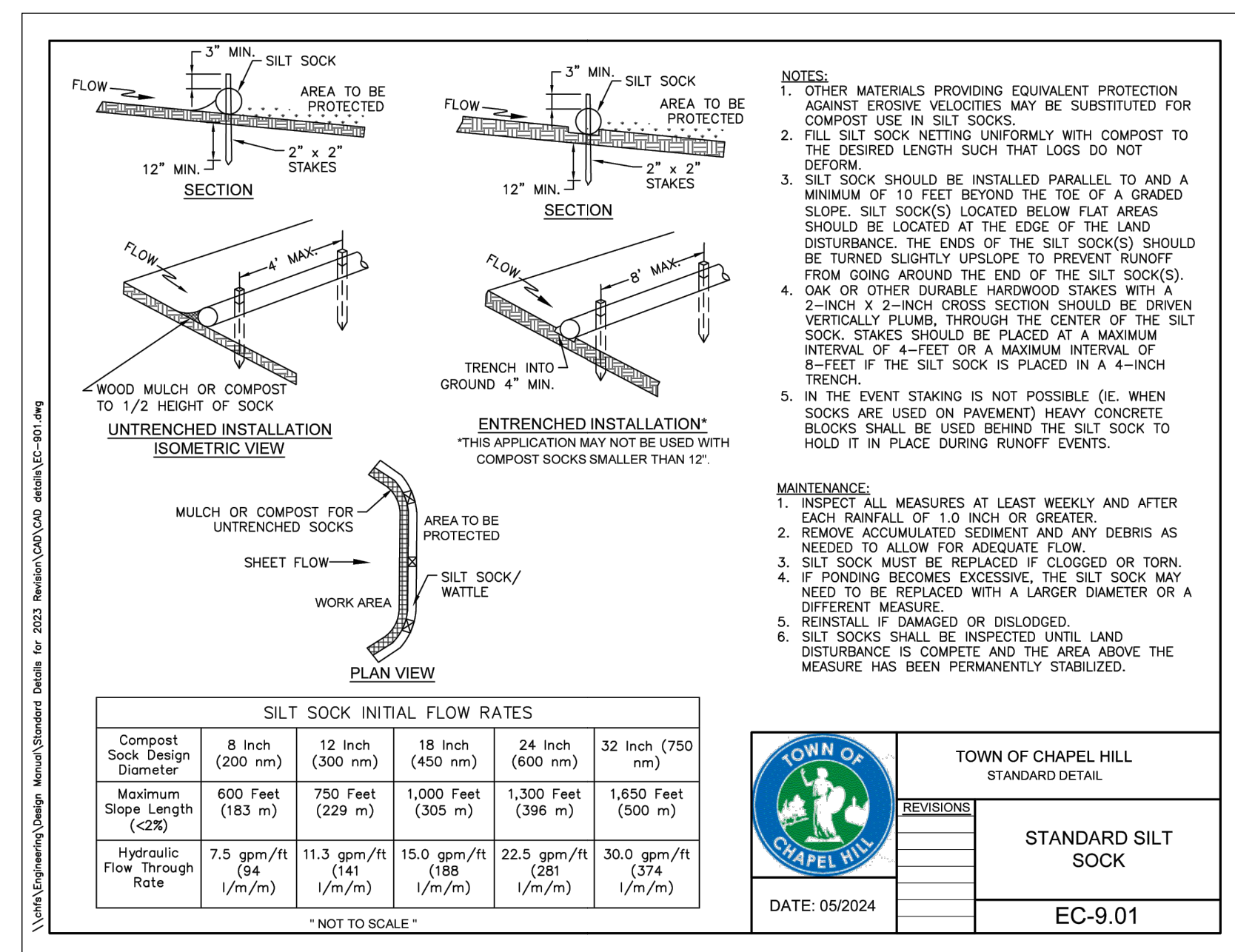
- STRUCTURAL STONE SHALL BE (CLASS "B") STONE FOR EROSION CONTROL PURPOSES.
- SEDIMENT CONTROL STONE SHALL BE NO. 5 OR NO. 57 STONE.

MAINTENANCE:

- INSPECT SILT FENCE STONE OUTLET AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
- REMOVE SEDIMENT DEPOSITS AS NECESSARY, RESTORE TO ITS ORIGINAL DIMENSIONS AND REPLACE STONE THAT IS IMPAIRED BY SEDIMENT.

A3 TEMPORARY SILT FENCE STONE OUTLET

SCALE: N.T.S.



TOWN OF CHAPEL HILL

STANDARD DETAIL

REVISIONS:

DATE: 05/2024

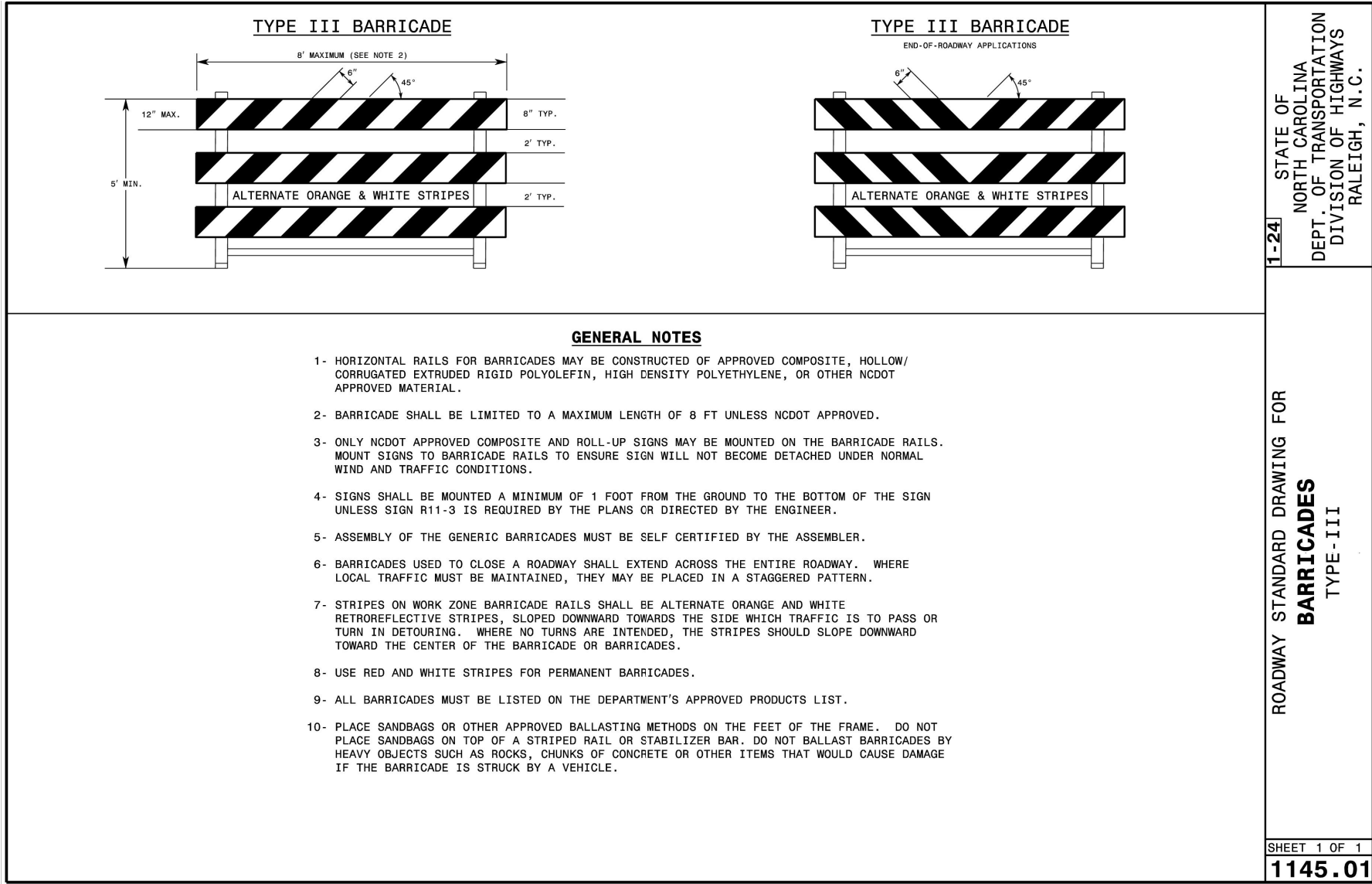
STANDARD SILT SOCK

EC-9.01

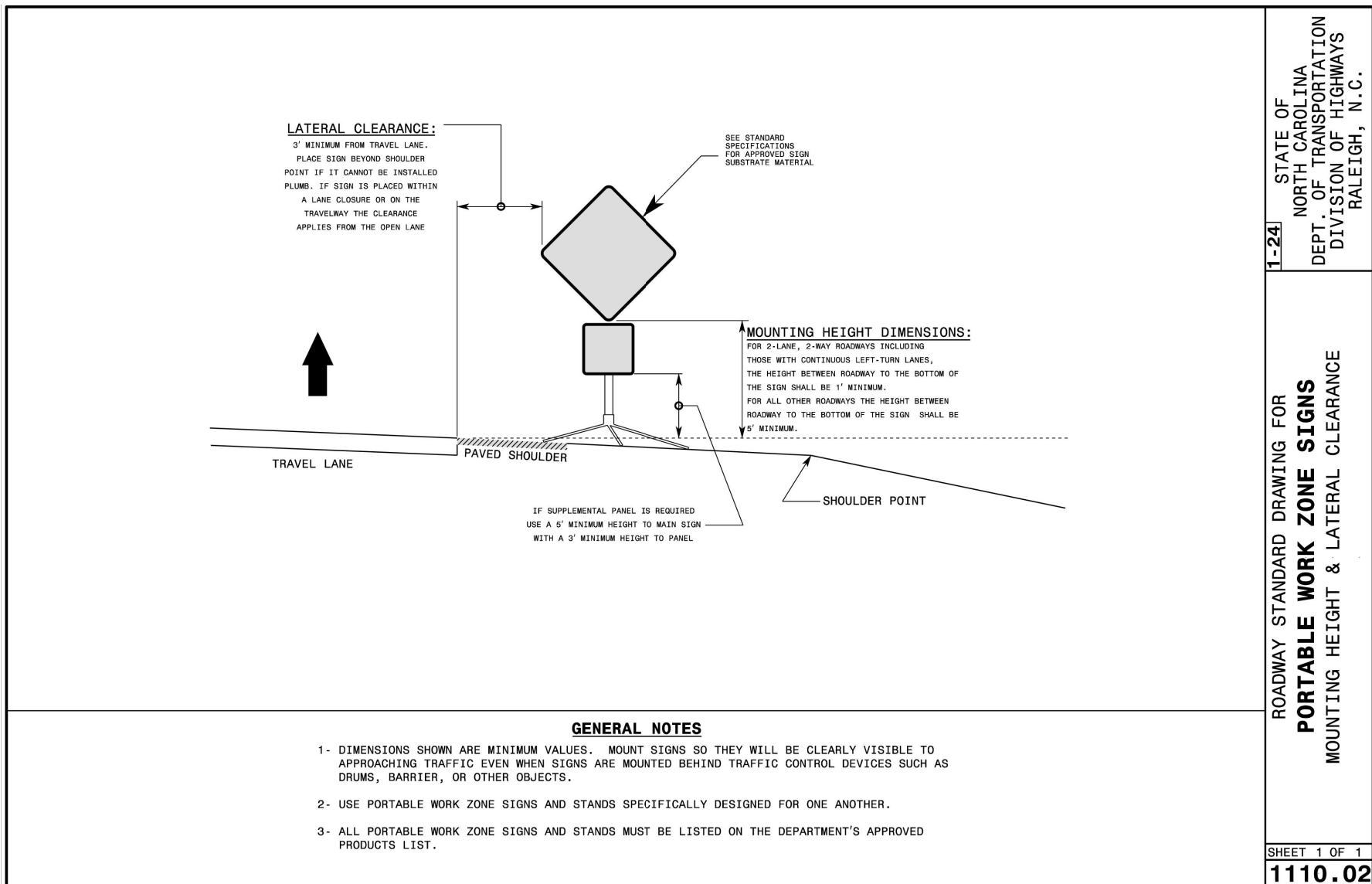
A2 STANDARD SILT SOCK

SCALE: NTS

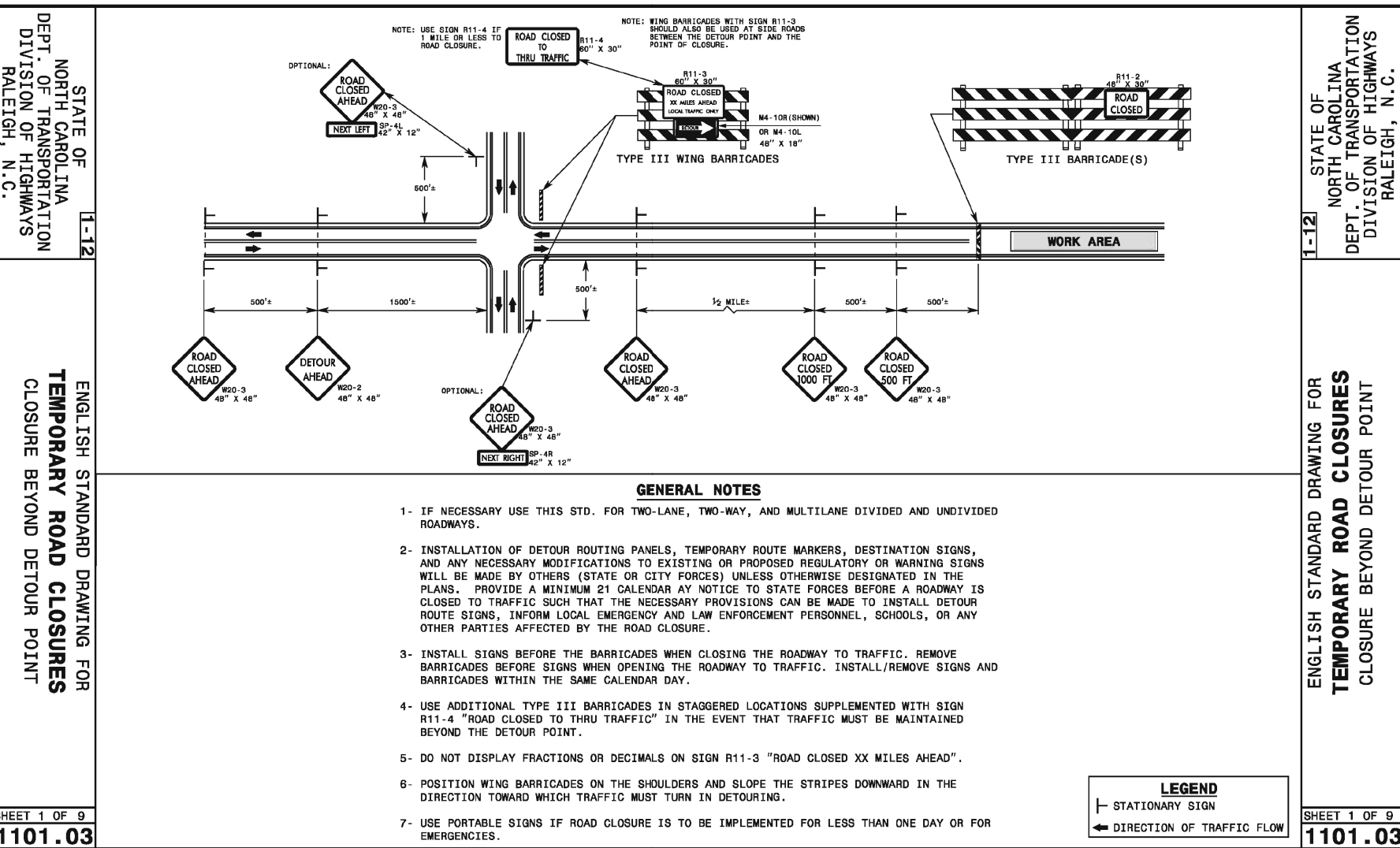
EROSION CONTROL DETAILS



C1 TYPE III BARRICADE
SCALE: NTS



B1 NCDOT PORTABLE WORK ZONE SIGNS
SCALE: NTS



A1 NCDOT TEMPORARY ROAD CLOSURES
SCALE: NTS

TRAFFIC CONTROL DETAILS