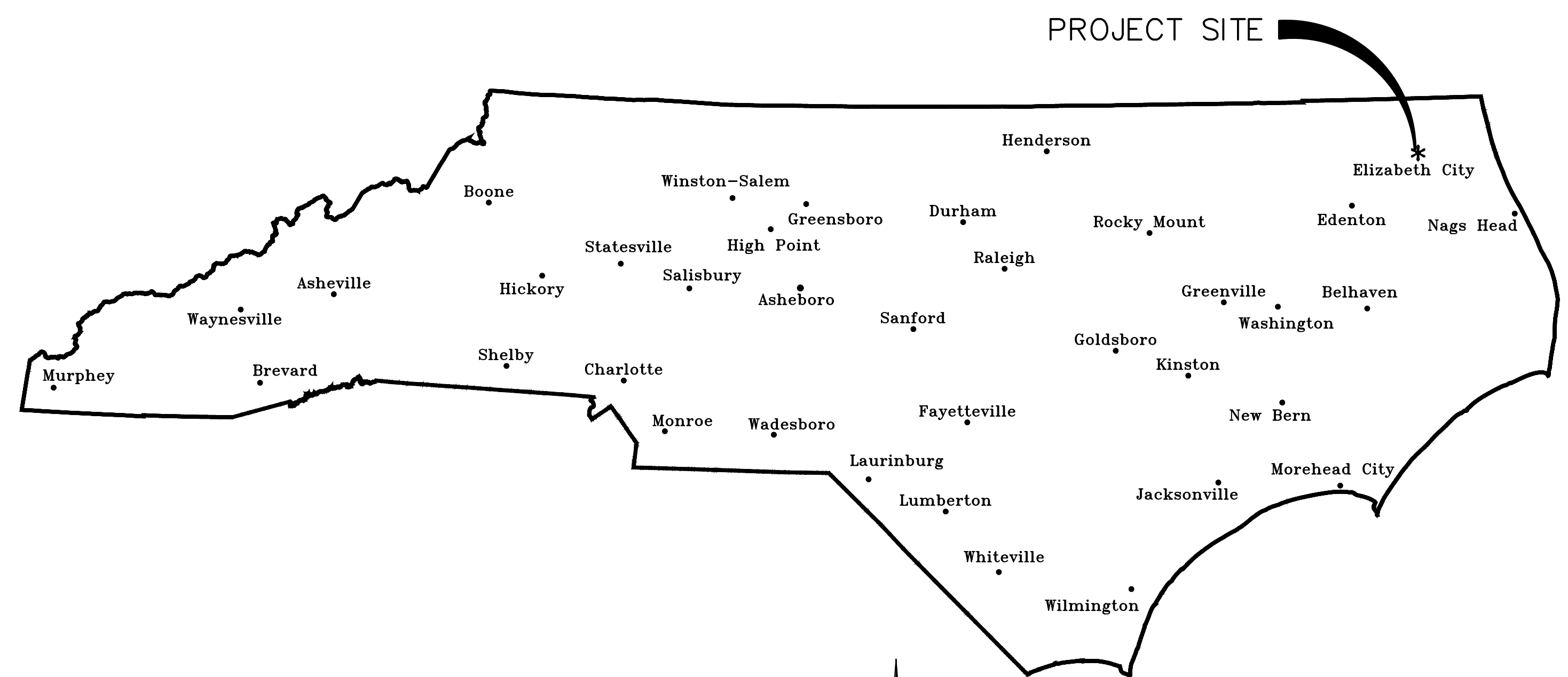
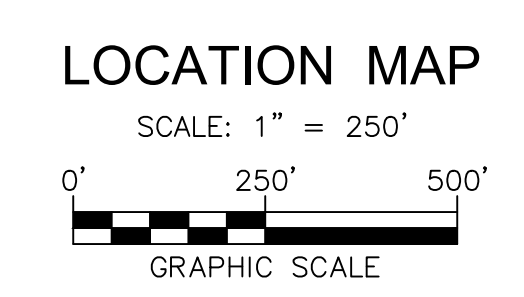
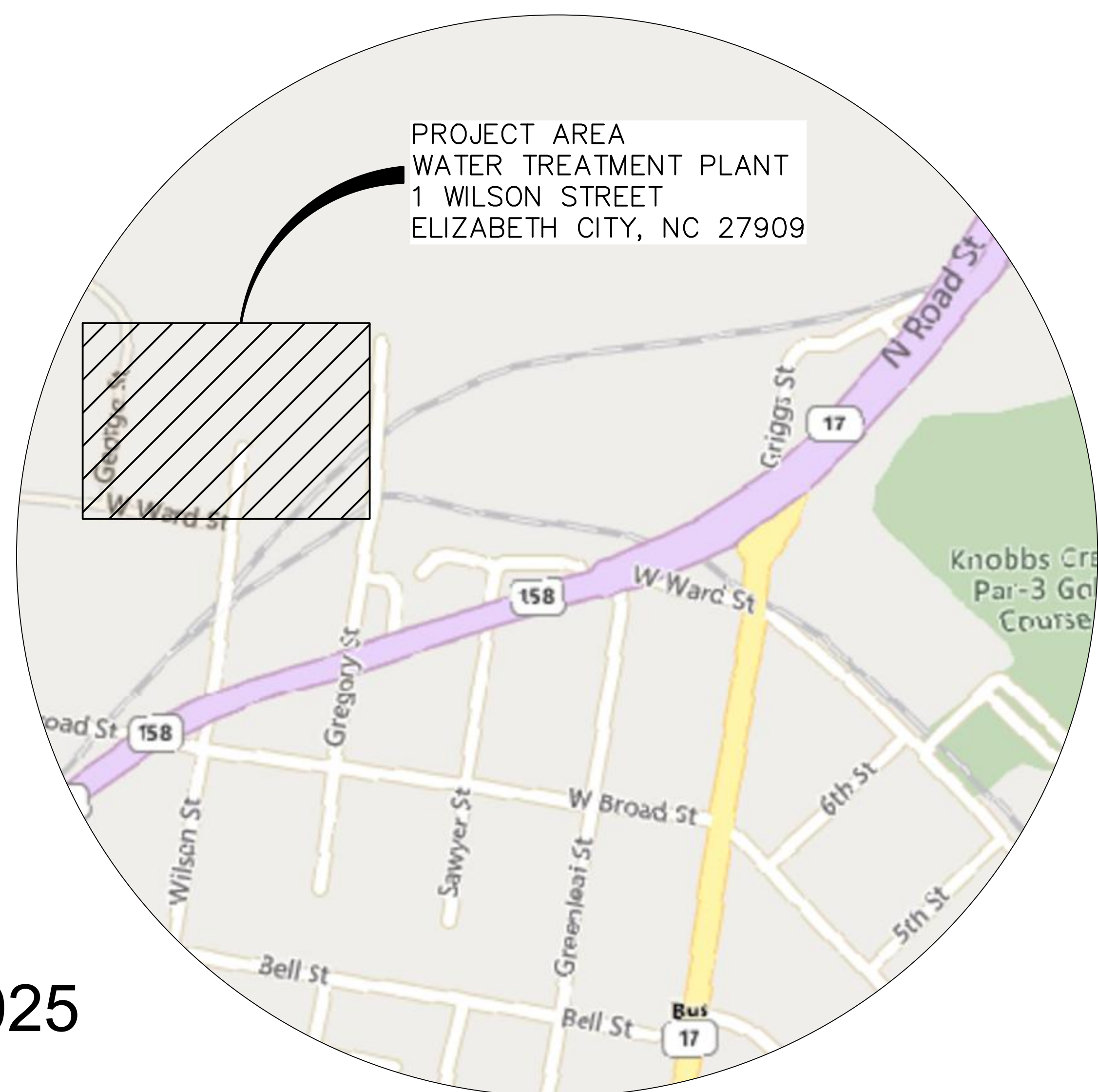
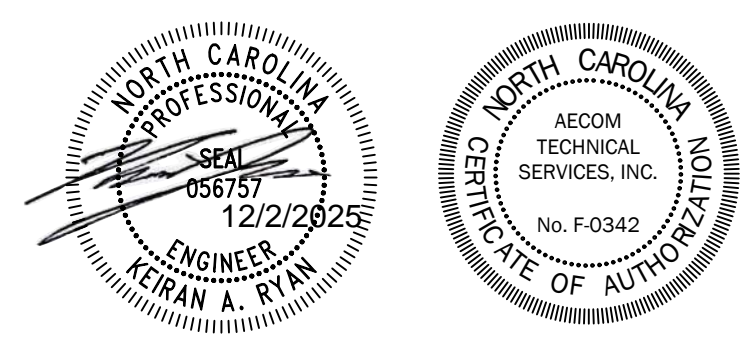


REPLACEMENT OF 3.0 MILLION GALLON RAW WATER RESERVOIR FOR ELIZABETH CITY, NORTH CAROLINA

PROJECT NO.: 60744999
DWI PROJECT NO.: SRP-D-134-0076



DECEMBER 2025

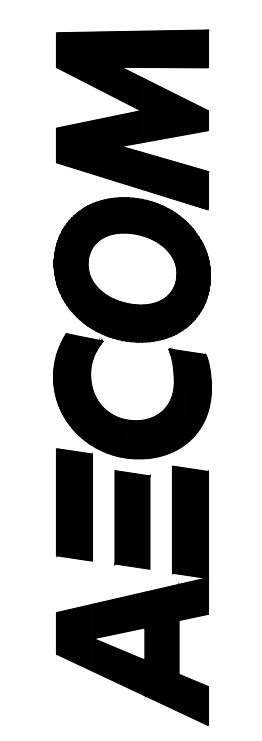


BID DOCUMENTS
THESE DOCUMENTS ARE FOR THE
PURPOSE OF SOLICITATION OF BIDS AND
ARE NOT FOR USE FOR CONSTRUCTION

**Replacement of 3.0 Million Gallon
Raw Water Reservoir
For Elizabeth City, North Carolina**

1 Wilson Street, Elizabeth City, NC 27909

Project No.: 60744999 DWI Project No.: SRP-D-134-0076



ANS I D 22" x 34"
 Approved: KR
 Checked:
 Drafter: CJP
 Designer: KR
 Project Management Initials: Project Eng.:
 File name: C:\USERS\KOSTUCHENKOL\AECOM\60744999\ELIZABETH CITY 3MG RWR\00_CAD_GIS\910_CAD\2-SHEET\60744999-G.DWG
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SYMBOLS

	EXISTING STRUCTURE/BUILDING
	TO BE REMOVED
	TO MILL & OVERLAY ASPHALT
	NEW STRUCTURE/BUILDING
	EXISTING SIDEWALK
	NEW SIDEWALK
	EXISTING ASPHALTIC CONCRETE PAVEMENT
	NEW ASPHALTIC CONCRETE PAVEMENT
	BENCHMARK/ELEVATION MARKER
	NEW SPOT ELEVATION
	STAKING POINT
	EXISTING CONTOUR
	NEW CONTOUR
	EXISTING PIPING
	YARD PIPING TO BE REMOVED
	YARD PIPING TO BE ABANDONED
	NEW PIPING
	EXISTING FENCE
	NEW FENCE
	SILT FENCE
	OVERHEAD POWER LINE
	UNDERGROUND POWER LINE
	TELEPHONE LINE (UNDERGROUND)
	TELEPHONE FIBER OPTIC
	TREE LINE
	EXISTING HANDRAIL
	NEW HANDRAIL
	CABLE TV
	PROPERTY LINE
	RIGHT-OF-WAY/EASEMENT
	EXISTING LIGHT POLE
	EXISTING POWER POLE
	EXISTING YARD HYDRANT
	NEW YARD HYDRANT
	EXISTING FIRE HYDRANT
	NEW FIRE HYDRANT
	EXISTING MANHOLE
	NEW MANHOLE
	EXISTING STOP GATE

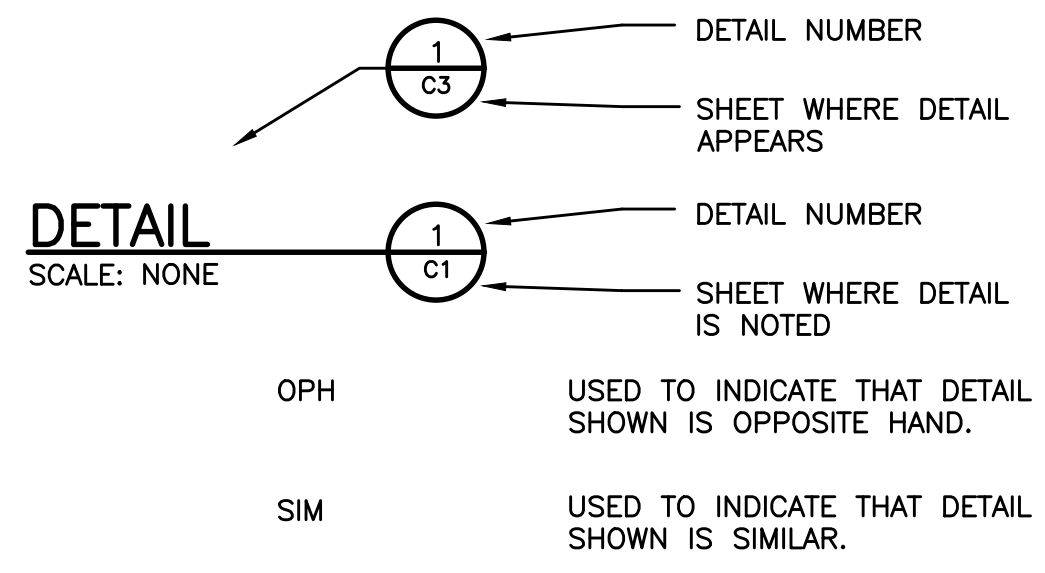
SYMBOLS (CONT.)

	EXISTING DROP INLET
	NEW DROP INLET
	EXISTING JUNCTION BOX
	NEW JUNCTION BOX
	EXISTING CATCH BASIN
	NEW CATCH BASIN
	EXISTING ELECTRIC MANHOLE
	EXISTING ELECTRIC BOX
	CLEAN OUT
	EXISTING VALVE
	NEW VALVE
	EXISTING TELEPHONE PED
	BALL VALVE
	GATE VALVE
	REDUCER
	UNION
	STRAINER
	CHECK VALVE
	PRESSURE GAUGE
	FLOOR DRAIN
	LEVEL SENSOR
	TRANSMITTER

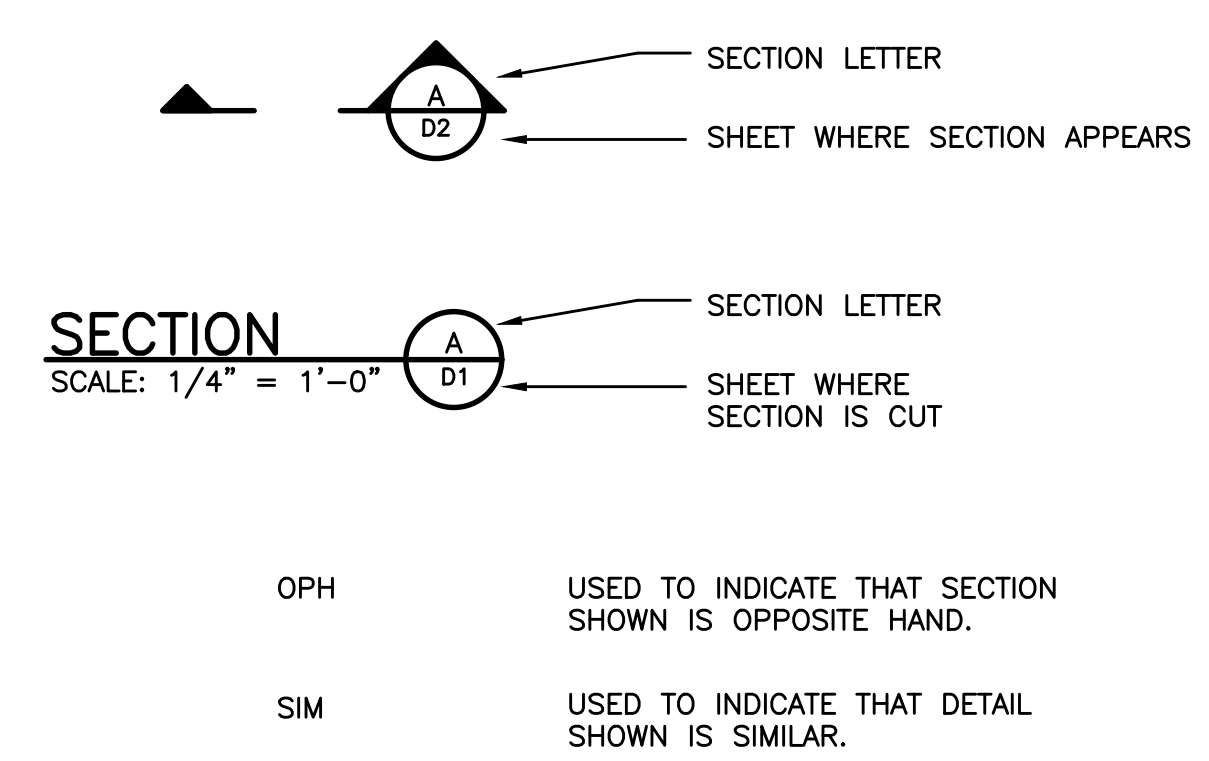
MATERIALS

	EARTH OR GRADE
	GRANULAR FILL (ROCK/GRAVEL)
	CONCRETE
	CMU (CONCRETE MASONRY UNIT)
	BRICK MASONRY
	GRATING
	GROUT FILL
	RIGID INSULATION
	RIP-RAP

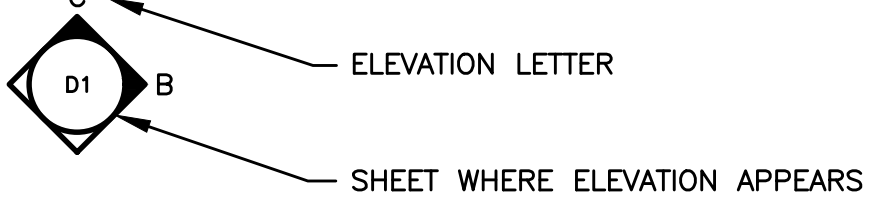
DETAIL REFERENCES



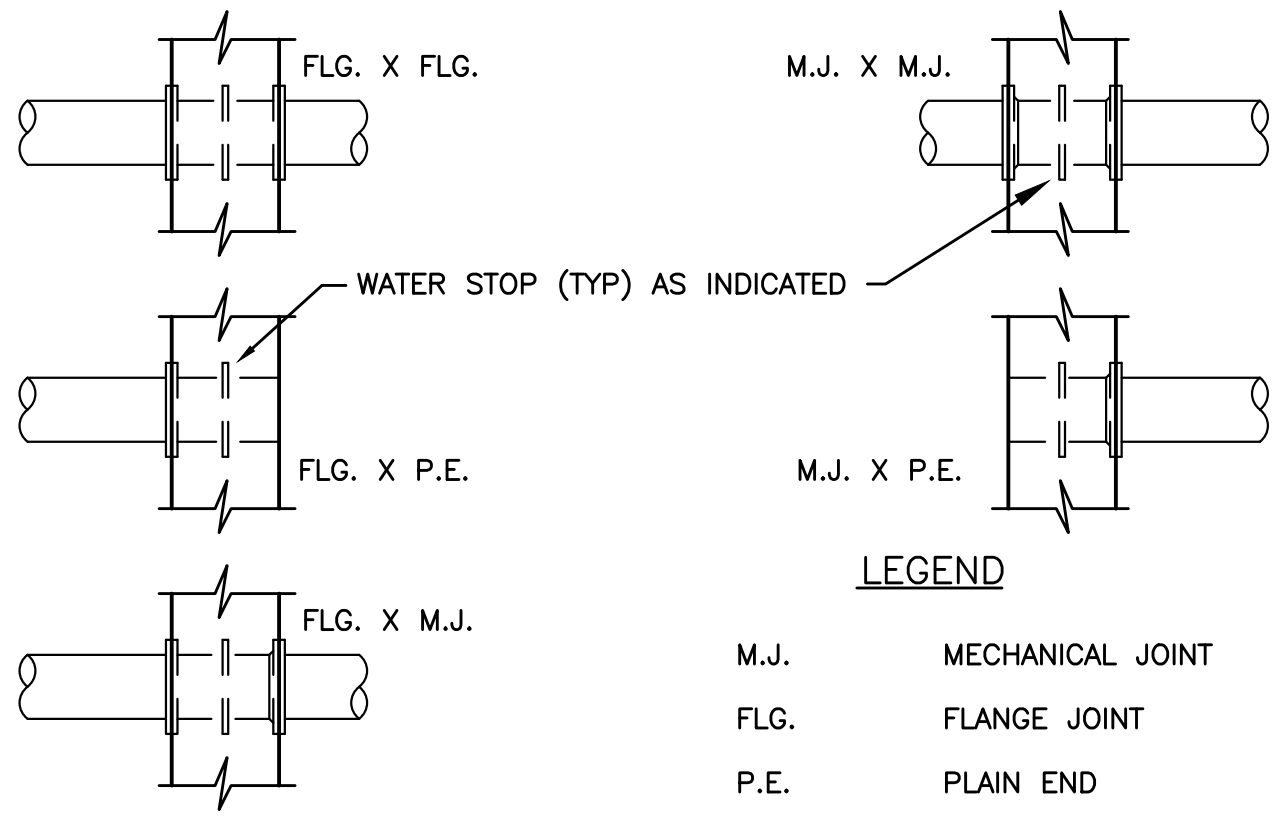
SECTION REFERENCES



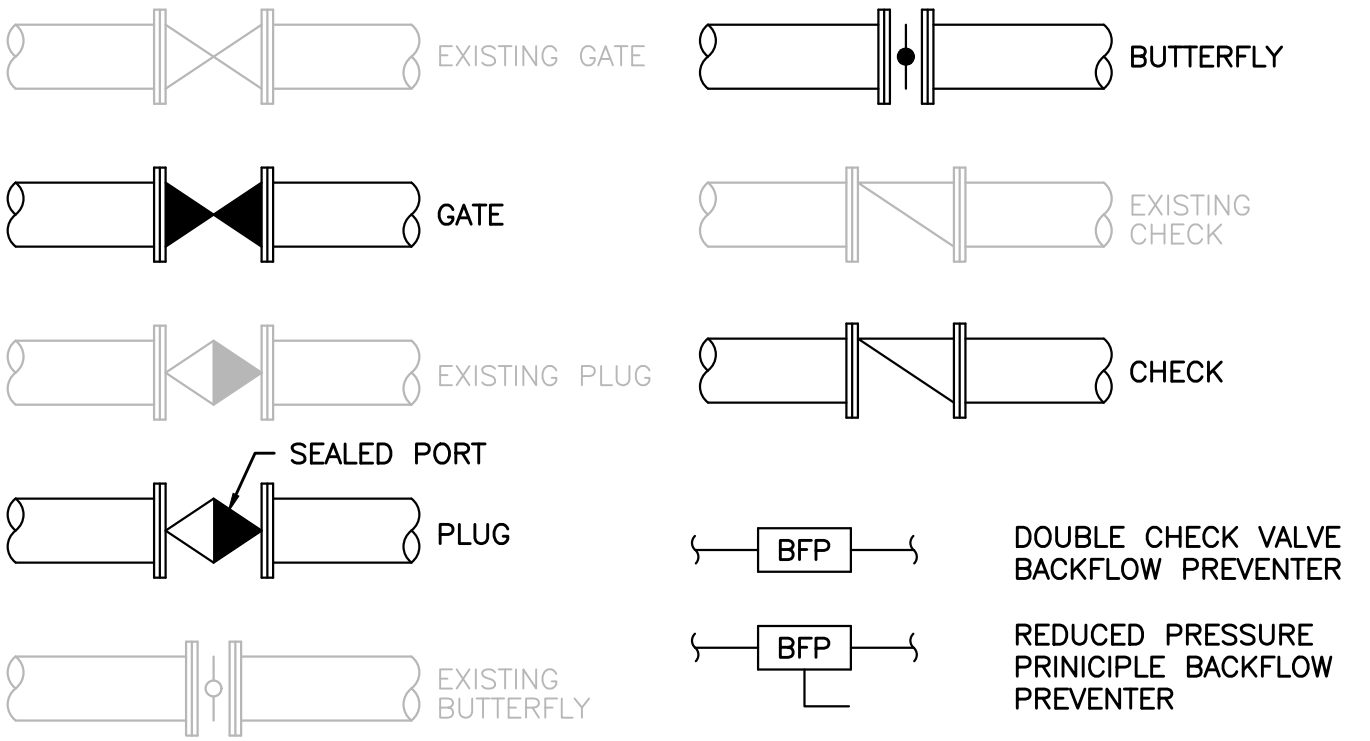
ELEVATION REFERENCES



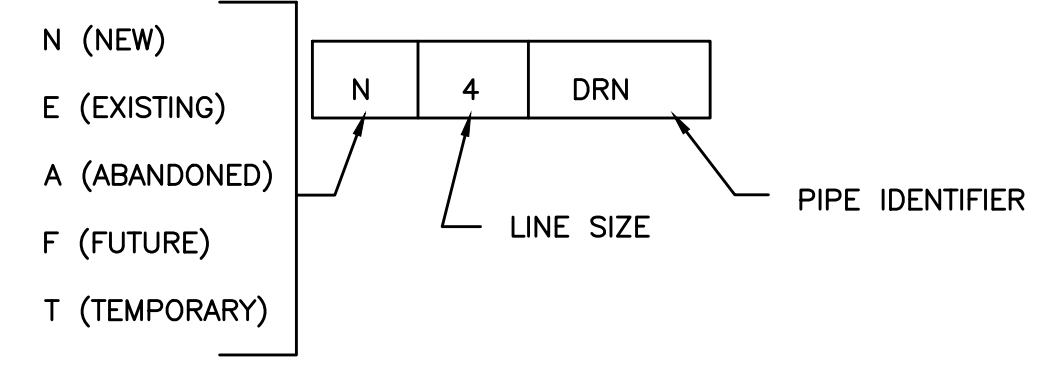
WALL PIPES



VALVES



PIPING



IDENTIFIER	DESCRIPTION
BYP	BYPASS
CFE	COMBINED FILTER EFFLUENT
DRN	DRAIN
EFF	EFFLUENT
EQ	WETWELL EQUALIZATION
FINW	FINISHED WATER
FM	FORCEMAIN
INF	INFLUENT
NPW	NON POTABLE WATER
PW	POTABLE WATER
RW	RAW WATER
SSWR	SANITARY SEWER
SD	STORM DRAIN
SUC	SUCTION
VNT	VENT
W	WATER
WST	WASTE

VALVE, GATE, AND DAMPER ACTUATOR SYMBOLS

HW	MANUAL HANDWHEEL	E	ELECTRIC
HW/EB	MANUAL HANDWHEEL W/EXTENDED BONNET	S	SOLENOID
CW	MANUAL CHAINWHEEL	H	HYDRAULIC
L	LEVER	P	PNEUMATIC
N	MANUAL OPERATING NUT (W/BOX FOR BURIED SERVICE)		

SCHEDULE REFERENCES

MARK	DESCRIPTION
2001	DOOR
2001	WINDOW
2001	LOUVER
2001	ROOM FINISH

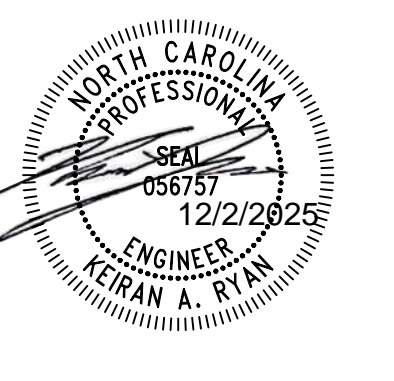


PROJECT
 REPLACEMENT OF 3.0 MILLION GALLON RAW WATER RESERVOIR
 WATER TREATMENT PLANT
 1 WILSON STREET
 ELIZABETH CITY, NC 27909

CLIENT
 CITY OF ELIZABETH CITY, NC
 410 PRITCHARD STREET
 ELIZABETH CITY, NC 27909
 (252) 337-6628

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REGISTRATION



ISSUE/REVISION

NO.	DATE	DESCRIPTION
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KEY PLAN

SHEET SCALE: AS SHOWN

BID DOCUMENTS
 THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

PROJECT & FILE NUMBER

PROJECT NO.: 60744999
 DWI PROJECT NO.: SRP-D-134-0076

SHEET TITLE

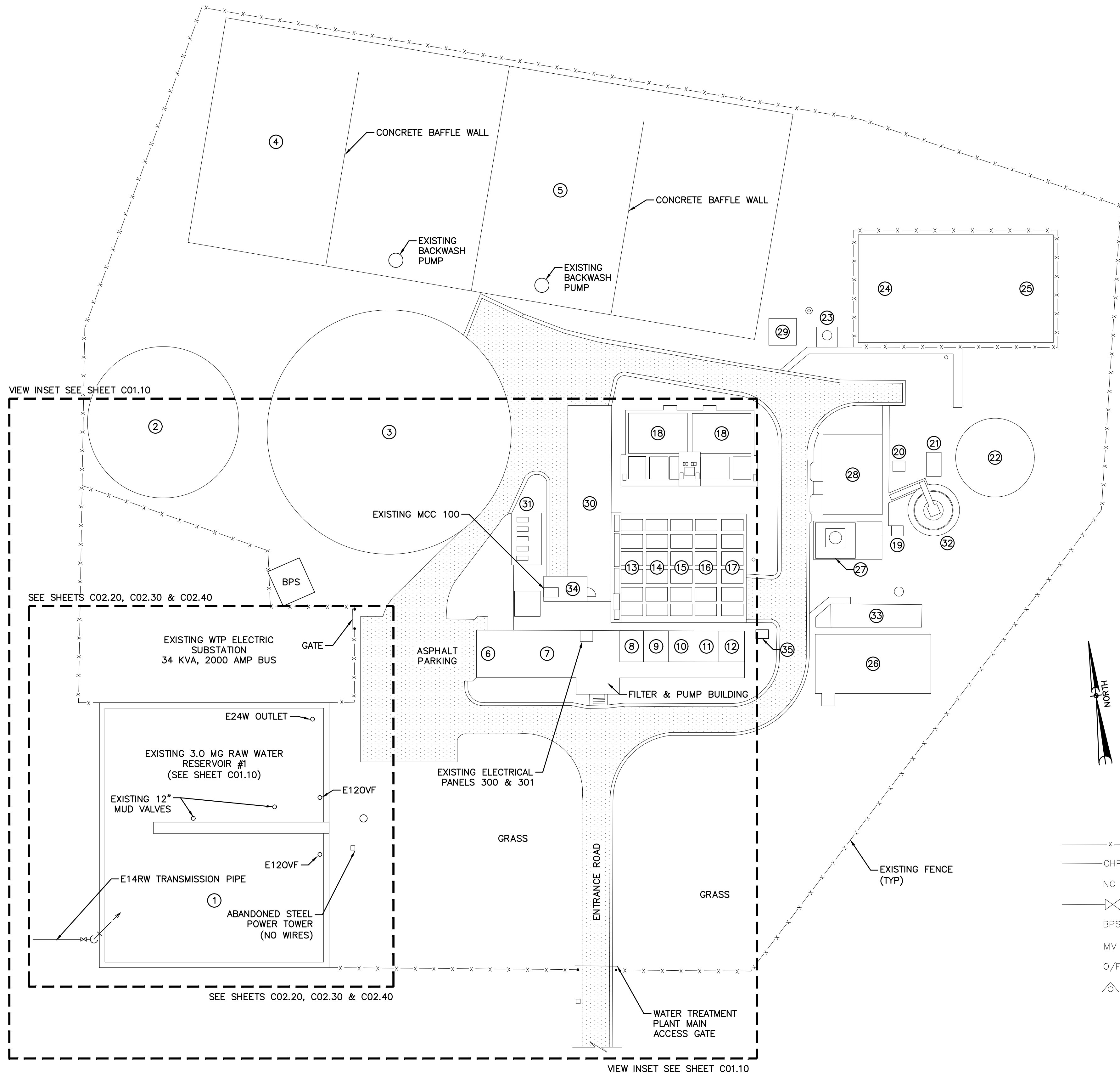
GENERAL LEGEND & SYMBOLS

SHEET NUMBER

G00.30

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Last saved by: KOSTUCHENKO, (2025-11-24) Last Plotter: 2025-11-24
 Filename: C:\USERS\KOSTUCHENKO\AECOM\60744989\ELIZABETH CITY 3MG RWR\00_CAD\2-SHEETS\6074498 - C SITE.DWG
 Project Management Initials: Project Eng.:
 Designer: KR
 Drafter: CJP
 Checked: KR
 Approved: KR
 ANS I D 22' x 34'

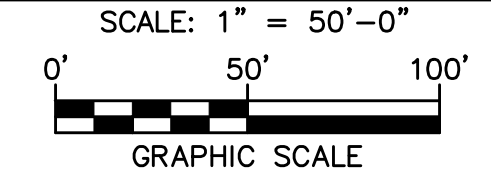


KEY	EXISTING STRUCTURES
①	RAW WATER RESERVOIR #1
②	RAW WATER RESERVOIR #2
③	FINISHED WATER CLEARWELL #3
④	FINISHED WATER CLEARWELL #2
⑤	FINISHED WATER CLEARWELL #1
⑥	EMERGENCY GENERATOR
⑦	FINISHED WATER PUMP ROOM
⑧	FILTER #1
⑨	FILTER #2
⑩	FILTER #3
⑪	FILTER #4
⑫	FILTER #5
⑬	SEDIMENTATION BASIN #1
⑭	SEDIMENTATION BASIN #2
⑮	SEDIMENTATION BASIN #3
⑯	SEDIMENTATION BASIN #4
⑰	SEDIMENTATION BASIN #5
⑱	CONTACT UPFLOW CLARIFIERS AND FLOCCULATION BASINS
⑲	FLUORIDE FEED VAULT
⑳	AMMONIA, CORROSION AND CHLORINE FEED VAULT
㉑	SLUDGE PUMP STATION
㉒	SLUDGE STORAGE TANK
㉓	SANITARY SEWER PUMP STATION
㉔	WASTE SOLIDS CLARIFIER #1
㉕	WASTE SOLIDS CLARIFIER #2
㉖	BUILDING
㉗	AMMONIA TANK
㉘	CHEMICAL BUILDING #2
㉙	CHEMICAL RETENTION TANK
㉚	CHEMICAL BUILDING #1
㉛	AIR BLOWER AND COMPRESSOR BUILDING
㉜	GRAVITY THICKENER
㉝	BASIN - OUT OF SERVICE
㉞	ELECTRICAL ROOM
㉟	TREATED WATER FLOW METER VAULT

LEGEND

- x — FENCE
- OHP — OVERHEAD POWER
- NC NORMALLY CLOSE
- ⊗ EXISTING VALVE
- BPS BOOSTER PUMP STATION
- MV MUD VALVE
- O/F OVERFLOW
- ⊠ FIRE HYDRANT

WATER TREATMENT PLANT KEY PLAN

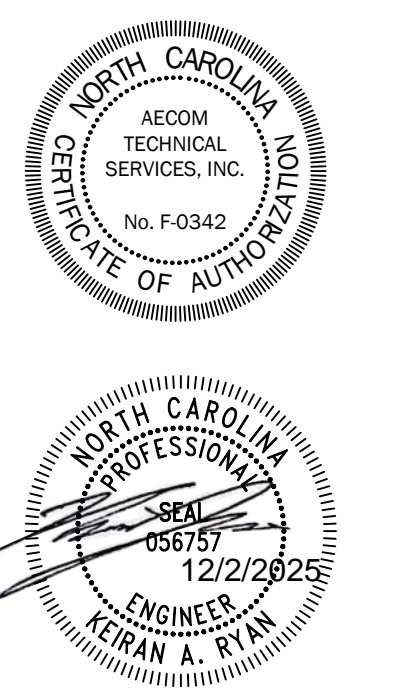


PROJECT
 REPLACEMENT OF 3.0 MILLION GALLON RAW WATER RESERVOIR
 WATER TREATMENT PLANT
 1 WILSON STREET
 ELIZABETH CITY, NC 27909

CLIENT
 CITY OF ELIZABETH CITY, NC
 410 PRITCHARD STREET
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ISSUE/REVISION

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KEY PLAN

SHEET SCALE: AS SHOWN

BID DOCUMENTS
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PROJECT & FILE NUMBER

PROJECT NO.: 60744989
 DWI PROJECT NO.: SRP-D-134-0076

SHEET TITLE

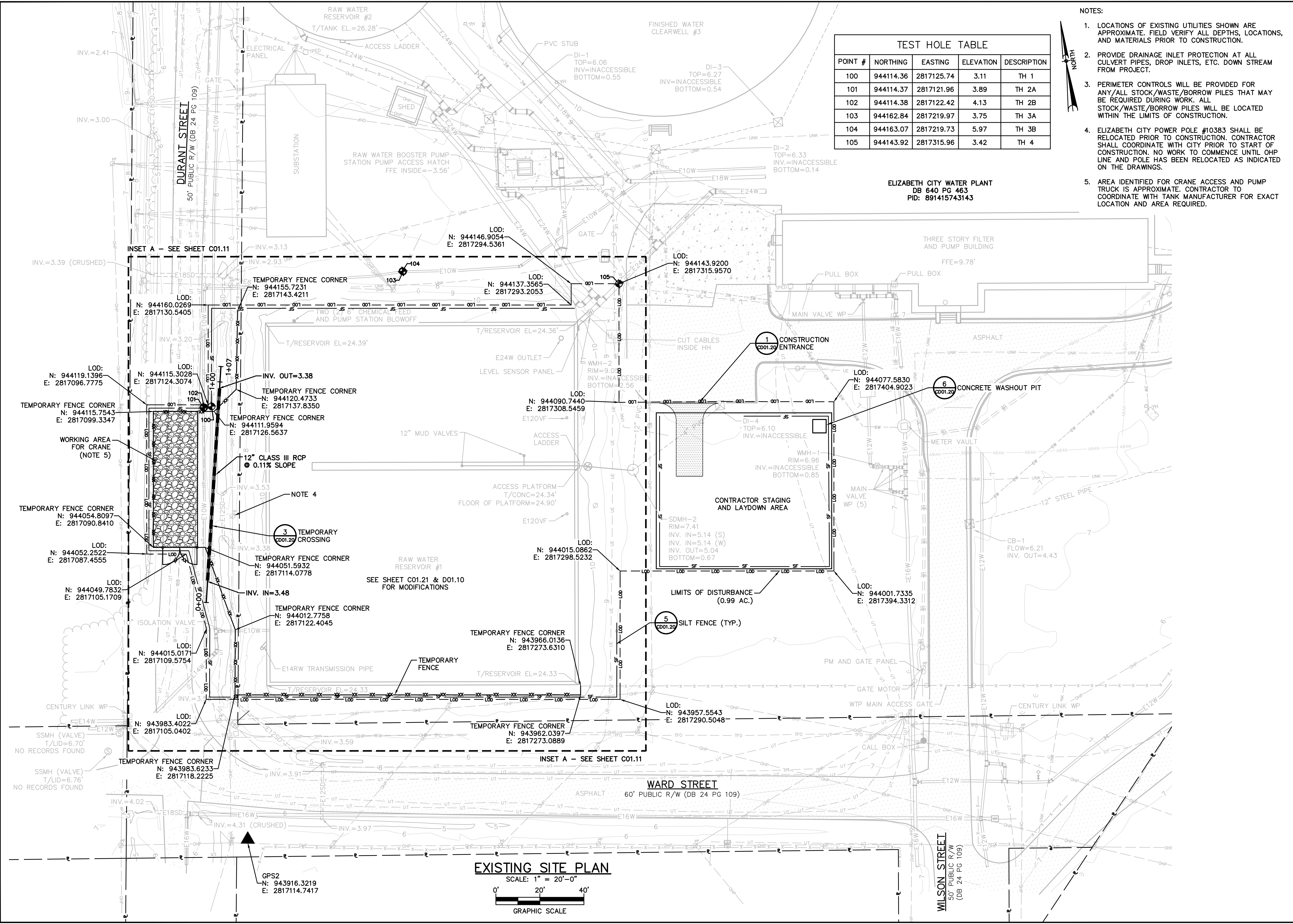
WATER TREATMENT PLANT KEY PLAN

SHEET NUMBER

G00.40

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ANSI D 22" x 34" Approved: KR Checked: CJP Drafter: CJP Designer: KR Project Management Initials: Project Eng.: CAD: GIS/910 CAD/D/SHEET/15074499 - C SITE.DWG Last saved by: KOSTUCHENKOL (2025-12-02) Last Plotted: 2025-12-29 Filename: C:\USERS\RYANKAECOM\6074499\ELIZABETH CITY 3MG RWR - DOCUMENTS\6074499\ELIZABETH CITY 3MG RWR\900 - CAD\GIS/910 CAD/D/SHEET/15074499 - C SITE.DWG



POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	944114.36	2817125.74	3.11	TH 1
101	944114.37	2817121.96	3.89	TH 2A
102	944114.38	2817122.42	4.13	TH 2B
103	944162.84	2817219.97	3.75	TH 3A
104	944163.07	2817219.73	5.97	TH 3B
105	944143.92	2817315.96	3.42	TH 4

- NOTES:
- LOCATIONS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. FIELD VERIFY ALL DEPTHS, LOCATIONS, AND MATERIALS PRIOR TO CONSTRUCTION.
 - PROVIDE DRAINAGE INLET PROTECTION AT ALL CULVERT PIPES, DROP INLETS, ETC. DOWN STREAM FROM PROJECT.
 - PERIMETER CONTROLS WILL BE PROVIDED FOR ANY/ALL STOCK/WASTE/BORROW PILES THAT MAY BE REQUIRED DURING WORK. ALL STOCK/WASTE/BORROW PILES WILL BE LOCATED WITHIN THE LIMITS OF CONSTRUCTION.
 - ELIZABETH CITY POWER POLE #10383 SHALL BE RELOCATED PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH CITY PRIOR TO START OF CONSTRUCTION. NO WORK TO COMMENCE UNTIL OHP LINE AND POLE HAS BEEN RELOCATED AS INDICATED ON THE DRAWINGS.
 - AREA IDENTIFIED FOR CRANE ACCESS AND PUMP TRUCK IS APPROXIMATE. CONTRACTOR TO COORDINATE WITH TANK MANUFACTURER FOR EXACT LOCATION AND AREA REQUIRED.

ELIZABETH CITY WATER PLANT
DB 640 PG 463
PID: 891415743143

EXISTING SITE PLAN
SCALE: 1" = 20'-0"
GRAPHIC SCALE

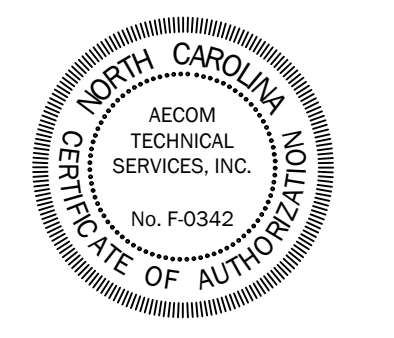


PROJECT
REPLACEMENT OF 3.0 MILLION GALLON RAW WATER RESERVOIR
WATER TREATMENT PLANT
1 WILSON STREET
ELIZABETH CITY, NC 27909

CLIENT
CITY OF ELIZABETH CITY, NC
410 PRITCHARD STREET
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NO.	DATE	DESCRIPTION
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KEY PLAN
SHEET SCALE: AS SHOWN

BID DOCUMENTS
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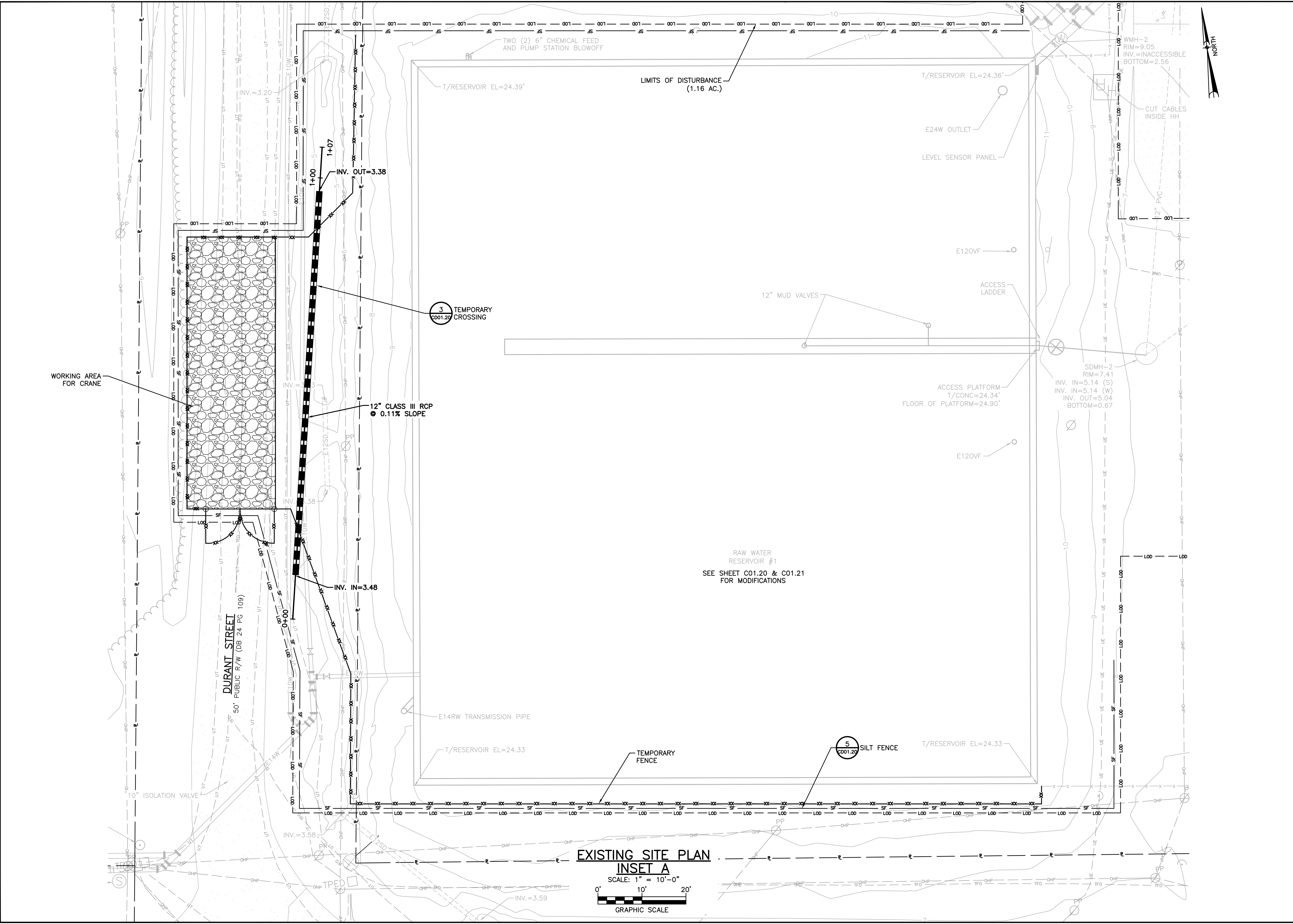
PROJECT & FILE NUMBER
PROJECT NO.: 60744999
DWI PROJECT NO.: SRP-D-134-0076

SHEET TITLE
EXISTING SITE PLAN

SHEET NUMBER
C01.10

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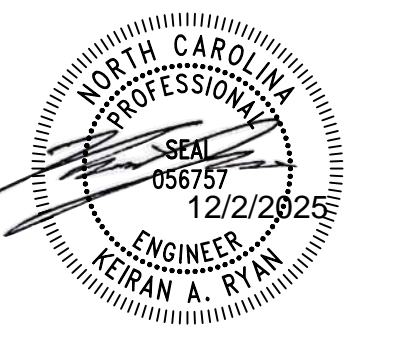


PROJECT
REPLACEMENT OF 3.0 MILLION GALLON RAW WATER RESERVOIR
 WATER TREATMENT PLANT
 1 WILSON STREET
 ELIZABETH CITY, NC 27909

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KEY PLAN
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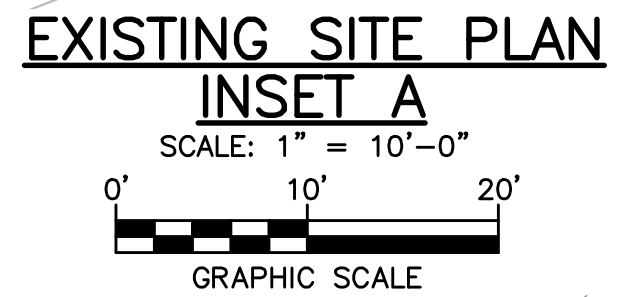
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PROJECT & FILE NUMBER
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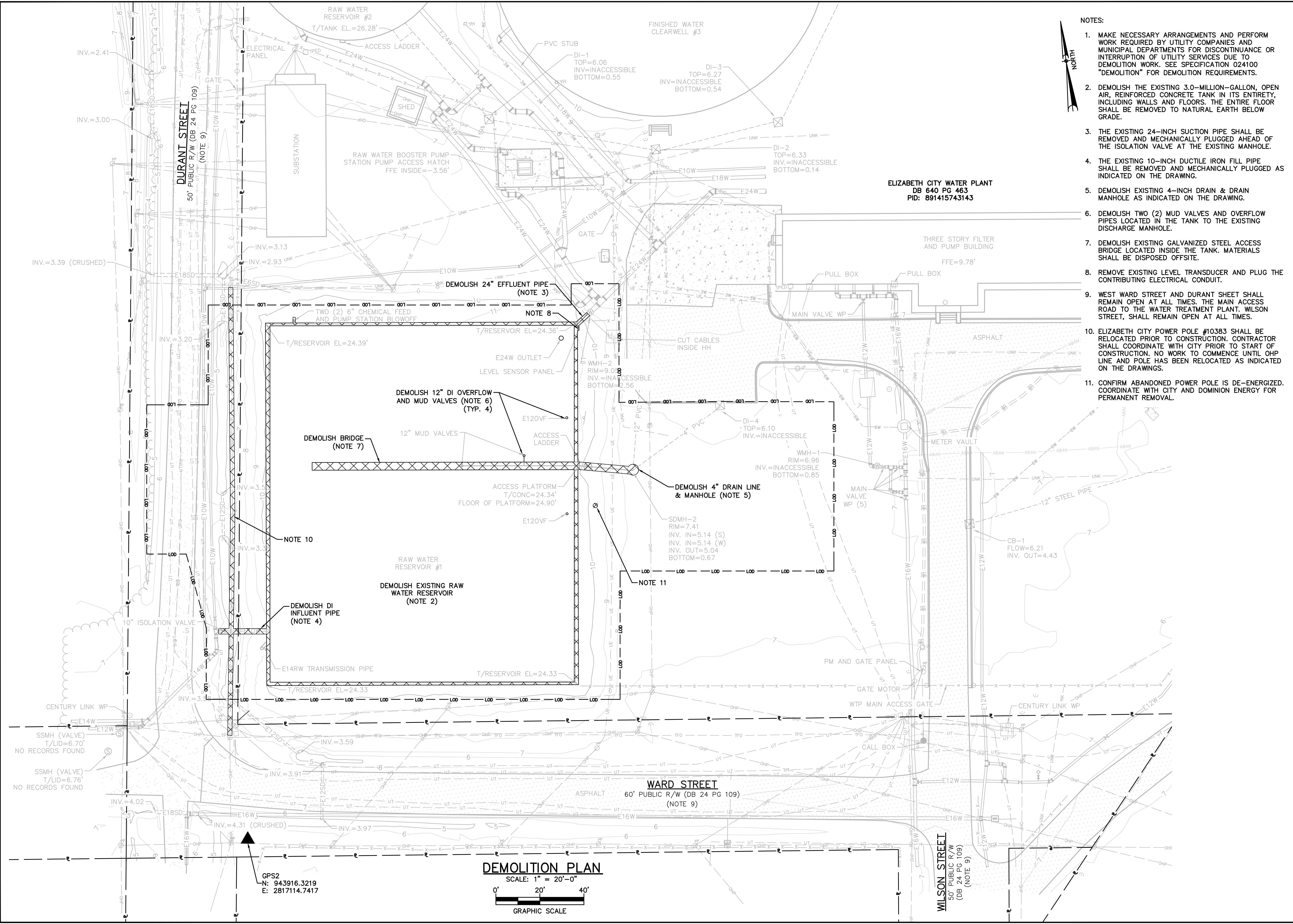
SHEET TITLE
EXISTING SITE PLAN - INSET A

SHEET NUMBER
C01.11

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- NOTES:**
1. MAKE NECESSARY ARRANGEMENTS AND PERFORM WORK REQUIRED BY UTILITY COMPANIES AND MUNICIPAL DEPARTMENTS FOR DISCONTINUANCE OR INTERRUPTION OF UTILITY SERVICES DUE TO DEMOLITION WORK. SEE SPECIFICATION 024100 "DEMOLITION" FOR DEMOLITION REQUIREMENTS.
 2. DEMOLISH THE EXISTING 3.0-MILLION-GALLON, OPEN AIR, REINFORCED CONCRETE TANK IN ITS ENTIRETY, INCLUDING WALLS AND FLOORS. THE ENTIRE FLOOR SHALL BE REMOVED TO NATURAL EARTH BELOW GRADE.
 3. THE EXISTING 24-INCH SUCTION PIPE SHALL BE REMOVED AND MECHANICALLY PLUGGED AHEAD OF THE ISOLATION VALVE AT THE EXISTING MANHOLE.
 4. THE EXISTING 10-INCH DUCTILE IRON FILL PIPE SHALL BE REMOVED AND MECHANICALLY PLUGGED AS INDICATED ON THE DRAWING.
 5. DEMOLISH EXISTING 4-INCH DRAIN & DRAIN MANHOLE AS INDICATED ON THE DRAWING.
 6. DEMOLISH TWO (2) MUD VALVES AND OVERFLOW PIPES LOCATED IN THE TANK TO THE EXISTING DISCHARGE MANHOLE.
 7. DEMOLISH EXISTING GALVANIZED STEEL ACCESS BRIDGE LOCATED INSIDE THE TANK. MATERIALS SHALL BE DISPOSED OFFSITE.
 8. REMOVE EXISTING LEVEL TRANSDUCER AND PLUG THE CONTRIBUTING ELECTRICAL CONDUIT.
 9. WEST WARD STREET AND DURANT SHEET SHALL REMAIN OPEN AT ALL TIMES. THE MAIN ACCESS ROAD TO THE WATER TREATMENT PLANT, WILSON STREET, SHALL REMAIN OPEN AT ALL TIMES.
 10. ELIZABETH CITY POWER POLE #10383 SHALL BE RELOCATED PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH CITY PRIOR TO START OF CONSTRUCTION. NO WORK TO COMMENCE UNTIL OHP LINE AND POLE HAS BEEN RELOCATED AS INDICATED ON THE DRAWINGS.
 11. CONFIRM ABANDONED POWER POLE IS DE-ENERGIZED. COORDINATE WITH CITY AND DOMINION ENERGY FOR PERMANENT REMOVAL.

ELIZABETH CITY WATER PLANT
 DB 640 PG 463
 PID: 891415743143



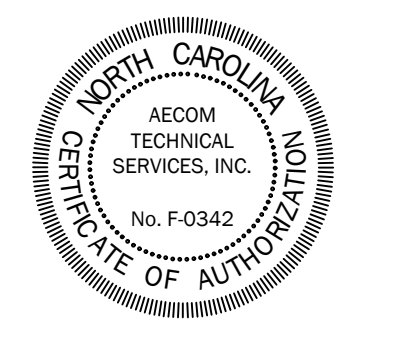
PROJECT
REPLACEMENT OF 3.0 MILLION GALLON RAW WATER RESERVOIR

WATER TREATMENT PLANT
 1 WILSON STREET
 ELIZABETH CITY, NC 27909

CLIENT
 CITY OF ELIZABETH CITY, NC
 410 PRITCHARD STREET
 ELIZABETH CITY, NC 27909
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REGISTRATION



ISSUE/REVISION

IR	DATE	DESCRIPTION
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KEY PLAN
 SHEET SCALE: AS SHOWN

BID DOCUMENTS
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PROJECT & FILE NUMBER

PROJECT NO.: 60744999
 DWI PROJECT NO.: SRP-D-134-0076

SHEET TITLE

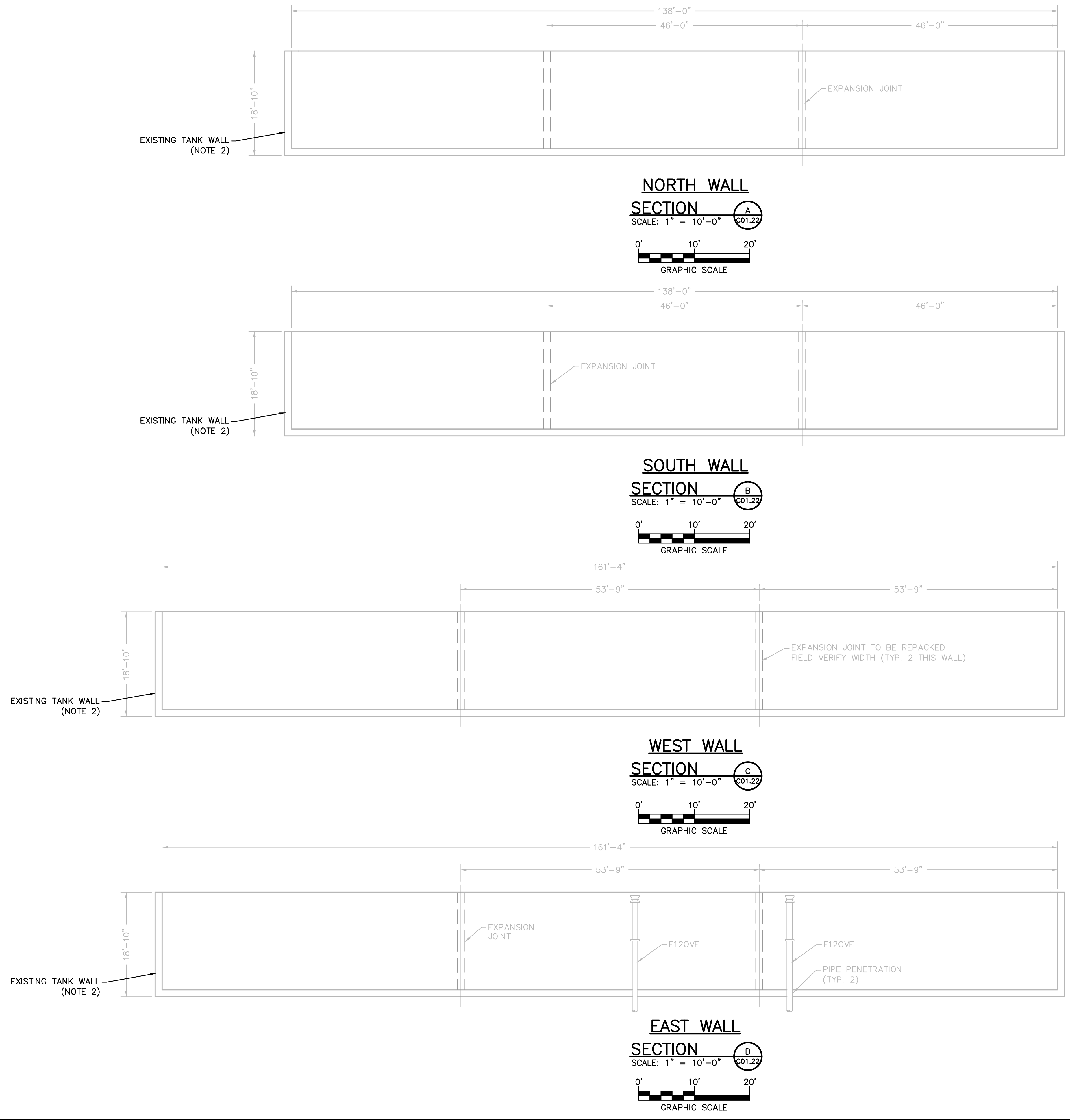
DEMOLITION PLAN

SHEET NUMBER

C01.20

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ANS I D 22" x 34" Approved: KR Checked: CJP Designer: KR Project Management Initials: Project Eng: File Name: C:\USERS\KOSTUCHENKO\AECOM\60744999\ELIZABETH CITY 3MG RWR-60744999\CAD\2-DRAWINGS\PROCESS.DWG



- NOTES:**
- THE EXTERIOR SURFACES OF THE OVERFLOW PIPES SHALL BE BLAST CLEANED TO A NEAR WHITE METAL FINISH, SSPC-SP10, REMOVING ALL RUST, RUST SCALE, AND FOREIGN MATTER. WITHIN 12 HOURS, THE CLEANED SURFACES SHALL BE PRIMED WITH A FAST CURE, POLYAMIDE EPOXY APPLIED TO 5.0 DRY MILS THICKNESS. TWO TOPCOATS OF A POLYAMIDE EPOXY, OF DIFFERENT COLORS, SHALL BE APPLIED TO A TOTAL OF 10.0 DRY MILS THICKNESS. THE FINAL COAT SHALL BE BEIGE IN COLOR. ALL COATINGS SHALL BE ANSI/NSF 61 APPROVED FOR POTABLE WATER.
 - DEMOLISH THE EXISTING 3.0-MILLION-GALLON, OPEN AIR, REINFORCED CONCRETE TANK IN ITS ENTIRETY, INCLUDING WALLS AND FLOORS. THE ENTIRE FLOOR SHALL BE REMOVED TO NATURAL EARTH BELOW GRADE. SEE SPECIFICATION 024100 "DEMOLITION" FOR DEMOLITION REQUIREMENTS.

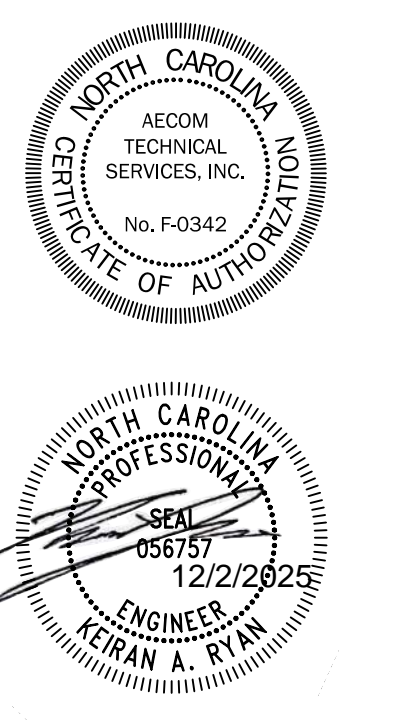


PROJECT
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 WATER TREATMENT PLANT
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KEY PLAN

SHEET SCALE: AS SHOWN

BID DOCUMENTS
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PROJECT & FILE NUMBER

PROJECT NO.: 60744999
 DWI PROJECT NO.: SRP-D-134-0076

SHEET TITLE

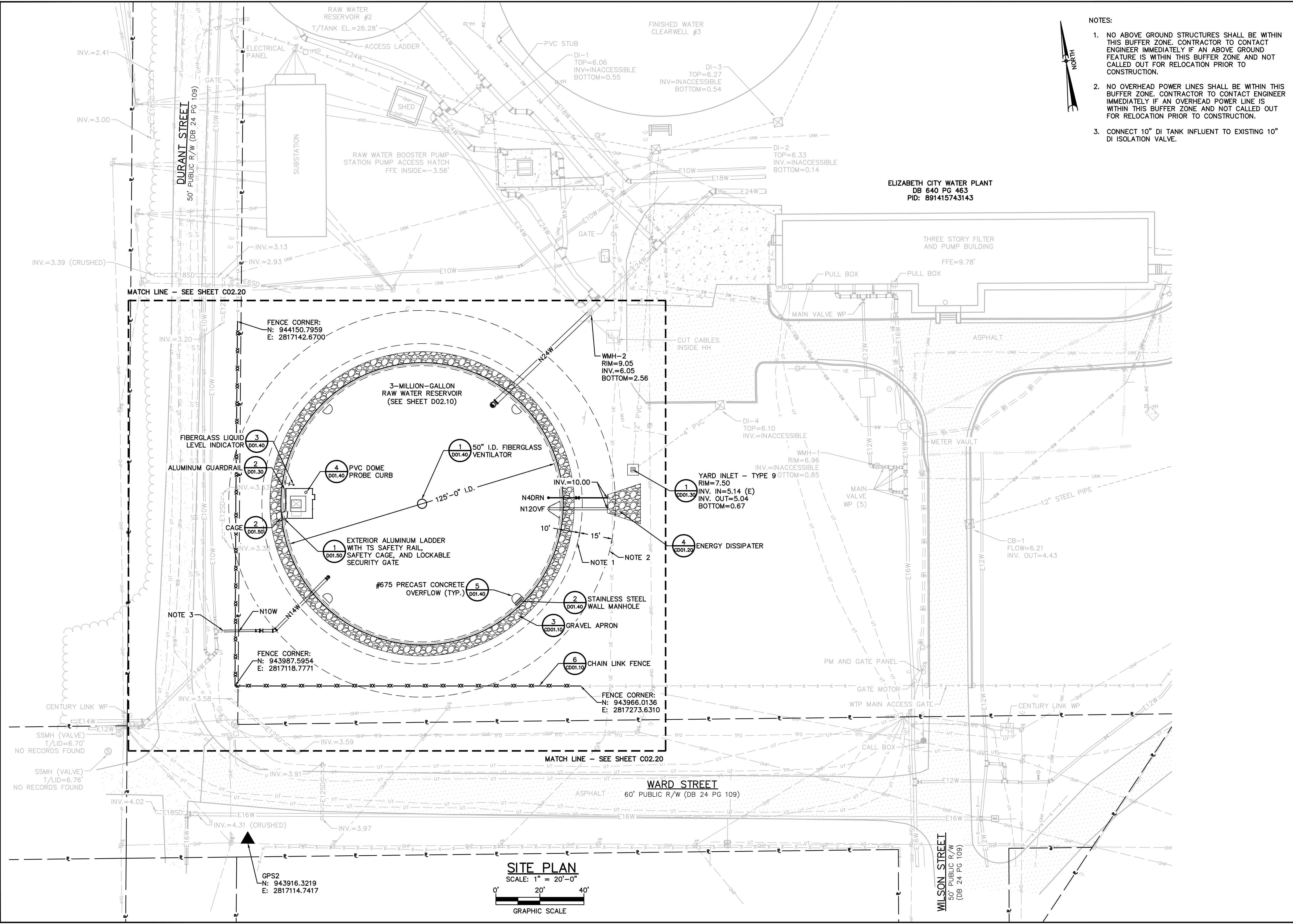
RAW WATER RESERVOIR DEMOLITION SECTIONS

SHEET NUMBER

C01.22

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ANSI D 22" x 34" Approved: KR Checked: CJP Designer: KR Project Management Initials: Project Eng.: C:\USERS\RYANK\AECOM\60744999\ELIZABETH CITY 3MG RWR - DOCUMENTS\60744999\ELIZABETH CITY 3MG RWR - DB 24 PG 109 - C SITE.DWG Last saved by: RYANK (2025-12-02) Last Plotted: 2025-12-29



- NOTES:
- NO ABOVE GROUND STRUCTURES SHALL BE WITHIN THIS BUFFER ZONE. CONTRACTOR TO CONTACT ENGINEER IMMEDIATELY IF AN ABOVE GROUND FEATURE IS WITHIN THIS BUFFER ZONE AND NOT CALLED OUT FOR RELOCATION PRIOR TO CONSTRUCTION.
 - NO OVERHEAD POWER LINES SHALL BE WITHIN THIS BUFFER ZONE. CONTRACTOR TO CONTACT ENGINEER IMMEDIATELY IF AN OVERHEAD POWER LINE IS WITHIN THIS BUFFER ZONE AND NOT CALLED OUT FOR RELOCATION PRIOR TO CONSTRUCTION.
 - CONNECT 10" DI TANK INFLUENT TO EXISTING 10" DI ISOLATION VALVE.



ELIZABETH CITY WATER PLANT
DB 640 PG 463
PID: 891415743143

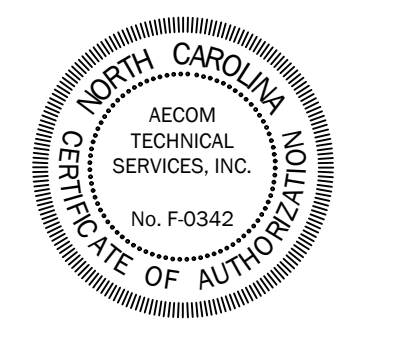


PROJECT
REPLACEMENT OF 3.0 MILLION GALLON RAW WATER RESERVOIR
WATER TREATMENT PLANT
1 WILSON STREET
ELIZABETH CITY, NC 27909

CLIENT
CITY OF ELIZABETH CITY, NC
410 PRITCHARD STREET
ELIZABETH CITY, NC 27909
(252) 337-6628

CONSULTANT
AECOM
5438 WADE PARK BOULEVARD
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NO	DATE	DESCRIPTION
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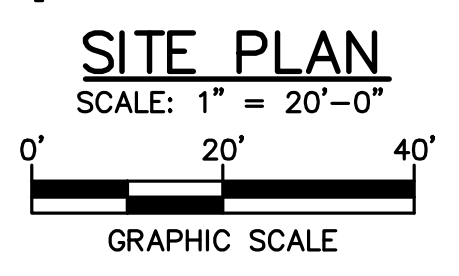
KEY PLAN
SHEET SCALE: AS SHOWN

BID DOCUMENTS
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PROJECT & FILE NUMBER
PROJECT NO.: 60744999
DWI PROJECT NO.: SRP-D-134-0076

SHEET TITLE
SITE PLAN

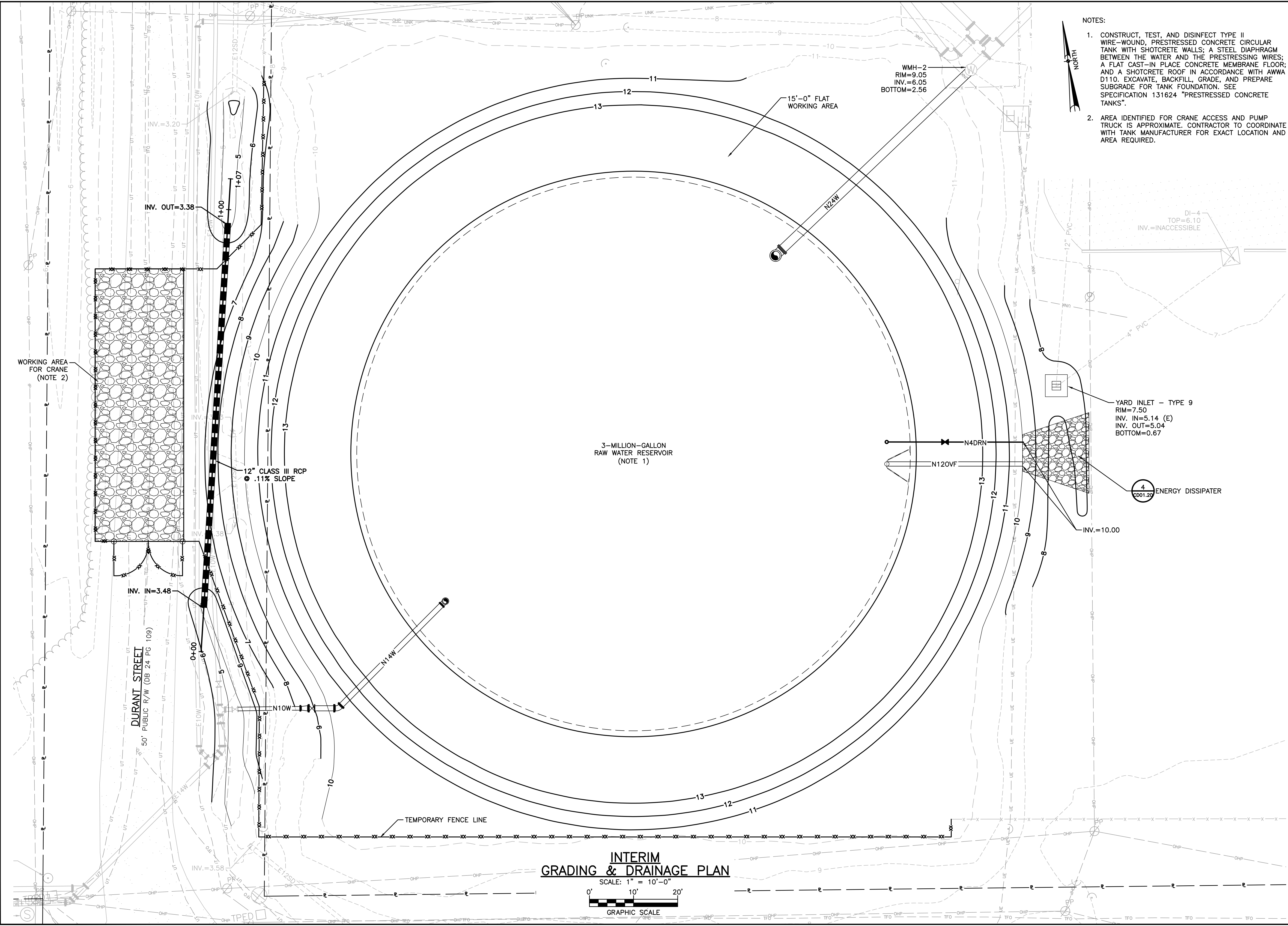
SHEET NUMBER
C02.10



GPS2
N: 943916.3219
E: 2817114.7417

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ANSI D 22" x 34" Approved: KR Checked: Drafter: CJP Designer: KR Project Management Initials: Project Eng.: CAD: GIS: 9/10, CAD/2-SHEET: 10/7/4499 - C SITE DWG
 Last saved by: KOSTUCHENKOL (2025-11-24) Last Plotted: 2025-11-24
 Filename: C:\USERS\KOSTUCHENKOL\AECOM\6074499\ELIZABETH CITY 3MG RWR - 6074499\ELIZABETH CITY 3MG RWR\900_CAD_GIS\910_CAD/2-SHEET\10/7/4499 - C SITE DWG



- NOTES:
1. CONSTRUCT, TEST, AND DISINFECT TYPE II WIRE-WOUND, PRESTRESSED CONCRETE CIRCULAR TANK WITH SHOTCRETE WALLS; A STEEL DIAPHRAGM BETWEEN THE WATER AND THE PRESTRESSING WIRES; A FLAT CAST-IN PLACE CONCRETE MEMBRANE FLOOR; AND A SHOTCRETE ROOF IN ACCORDANCE WITH AWWA D110. EXCAVATE, BACKFILL, GRADE, AND PREPARE SUBGRADE FOR TANK FOUNDATION. SEE SPECIFICATION 131624 "PRESTRESSED CONCRETE TANKS".
 2. AREA IDENTIFIED FOR CRANE ACCESS AND PUMP TRUCK IS APPROXIMATE. CONTRACTOR TO COORDINATE WITH TANK MANUFACTURER FOR EXACT LOCATION AND AREA REQUIRED.

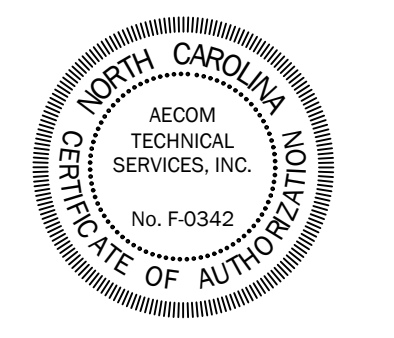


PROJECT
 REPLACEMENT OF 3.0 MILLION GALLON RAW WATER RESERVOIR
 WATER TREATMENT PLANT
 1 WILSON STREET
 ELIZABETH CITY, NC 27909

CLIENT
 CITY OF ELIZABETH CITY, NC
 410 PRITCHARD STREET
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KEY PLAN

SHEET SCALE: AS SHOWN

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PROJECT & FILE NUMBER

PROJECT NO.: 60744999
 DWI PROJECT NO.: SRP-D-134-0076

SHEET TITLE

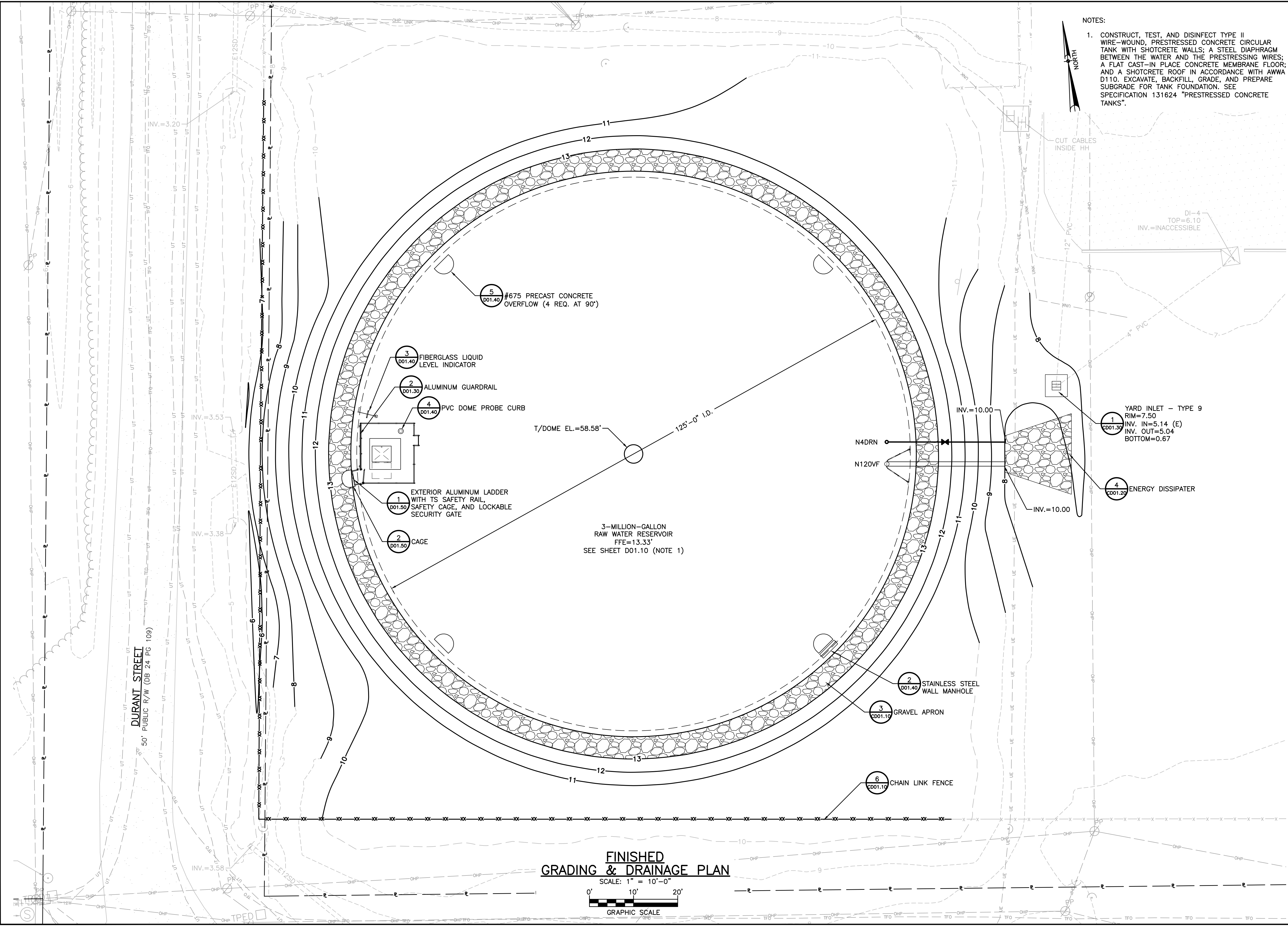
INTERIM GRADING AND DRAINAGE PLAN

SHEET NUMBER

C02.20

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ANSI D 22" x 34" Approved: KR Checked: Drafter: CJP Designer: KR Project Management Initials: Project Eng.: CAD: GIS: 9/10 CAD/2-SHEET: 6/7/4/499 - C SITE DWG
 Last saved by: KOSTUCHENKOL (2025-11-24) Last Plotted: 2025-11-24
 Filename: C:\USERS\KOSTUCHENKOL\AECOM\6074499\ELIZABETH CITY 3MG RWR\000\CAD_GIS\910_CAD/2-SHEET\6/7/4/499 - C SITE DWG



NOTES:
 1. CONSTRUCT, TEST, AND DISINFECT TYPE II WIRE-WOUND, PRESTRESSED CONCRETE CIRCULAR TANK WITH SHOTCRETE WALLS; A STEEL DIAPHRAGM BETWEEN THE WATER AND THE PRESTRESSING WIRES; A FLAT CAST-IN PLACE CONCRETE MEMBRANE FLOOR; AND A SHOTCRETE ROOF IN ACCORDANCE WITH AWWA D110. EXCAVATE, BACKFILL, GRADE, AND PREPARE SUBGRADE FOR TANK FOUNDATION. SEE SPECIFICATION 131624 "PRESTRESSED CONCRETE TANKS".

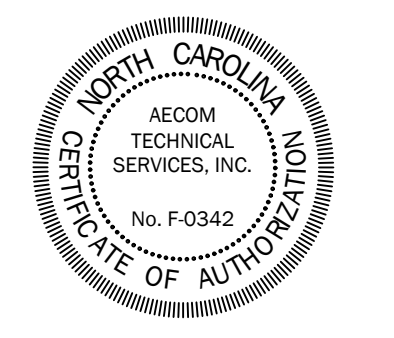


PROJECT
 REPLACEMENT OF 3.0 MILLION GALLON RAW WATER RESERVOIR
 WATER TREATMENT PLANT
 1 WILSON STREET
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CLIENT
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KEY PLAN

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PROJECT & FILE NUMBER

PROJECT NO.: 60744999
 DWI PROJECT NO.: SRP-D-134-0076

SHEET TITLE

FINISHED GRADING AND DRAINAGE PLAN

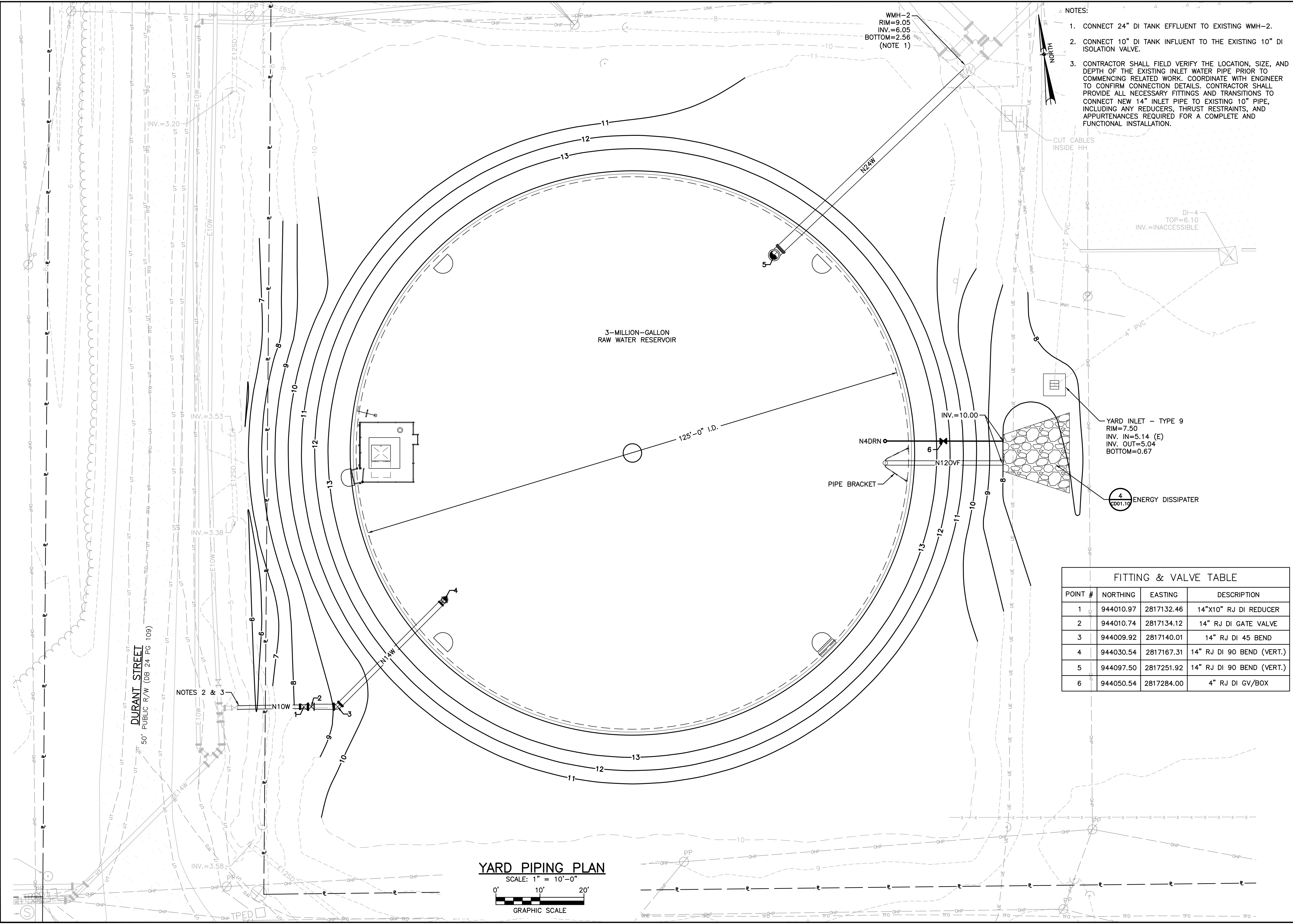
SHEET NUMBER

C02.30

FINISHED GRADING & DRAINAGE PLAN
 SCALE: 1" = 10'-0"
 0' 10' 20'
 GRAPHIC SCALE

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WMH-2
RIM=9.05
INV.=6.05
BOTTOM=2.56
(NOTE 1)

- NOTES:
- CONNECT 24" DI TANK EFFLUENT TO EXISTING WMH-2.
 - CONNECT 10" DI TANK INFLUENT TO THE EXISTING 10" DI ISOLATION VALVE.
 - CONTRACTOR SHALL FIELD VERIFY THE LOCATION, SIZE, AND DEPTH OF THE EXISTING INLET WATER PIPE PRIOR TO COMMENCING RELATED WORK. COORDINATE WITH ENGINEER TO CONFIRM CONNECTION DETAILS. CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTINGS AND TRANSITIONS TO CONNECT NEW 14" INLET PIPE TO EXISTING 10" PIPE, INCLUDING ANY REDUCERS, THRUST RESTRAINTS, AND APPURTENANCES REQUIRED FOR A COMPLETE AND FUNCTIONAL INSTALLATION.

CUT CABLES INSIDE HH

DI-4
TOP=6.10
INV.=INACCESSIBLE

YARD INLET - TYPE 9
RIM=7.50
INV. IN=5.14 (E)
INV. OUT=5.04
BOTTOM=0.67

4 ENERGY DISSIPATER
2001.10

FITTING & VALVE TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
1	944010.97	2817132.46	14"X10" RJ DI REDUCER
2	944010.74	2817134.12	14" RJ DI GATE VALVE
3	944009.92	2817140.01	14" RJ DI 45 BEND
4	944030.54	2817167.31	14" RJ DI 90 BEND (VERT.)
5	944097.50	2817251.92	14" RJ DI 90 BEND (VERT.)
6	944050.54	2817284.00	4" RJ DI GV/BOX

YARD PIPING PLAN
SCALE: 1" = 10'-0"
0' 10' 20'
GRAPHIC SCALE

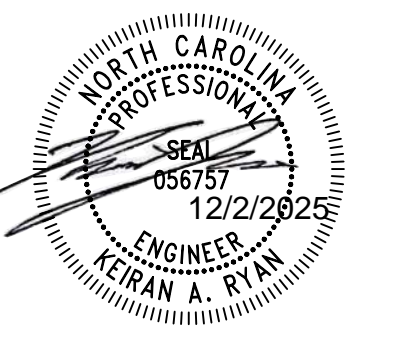


PROJECT
REPLACEMENT OF 3.0 MILLION GALLON RAW WATER RESERVOIR
WATER TREATMENT PLANT
1 WILSON STREET
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KEY PLAN
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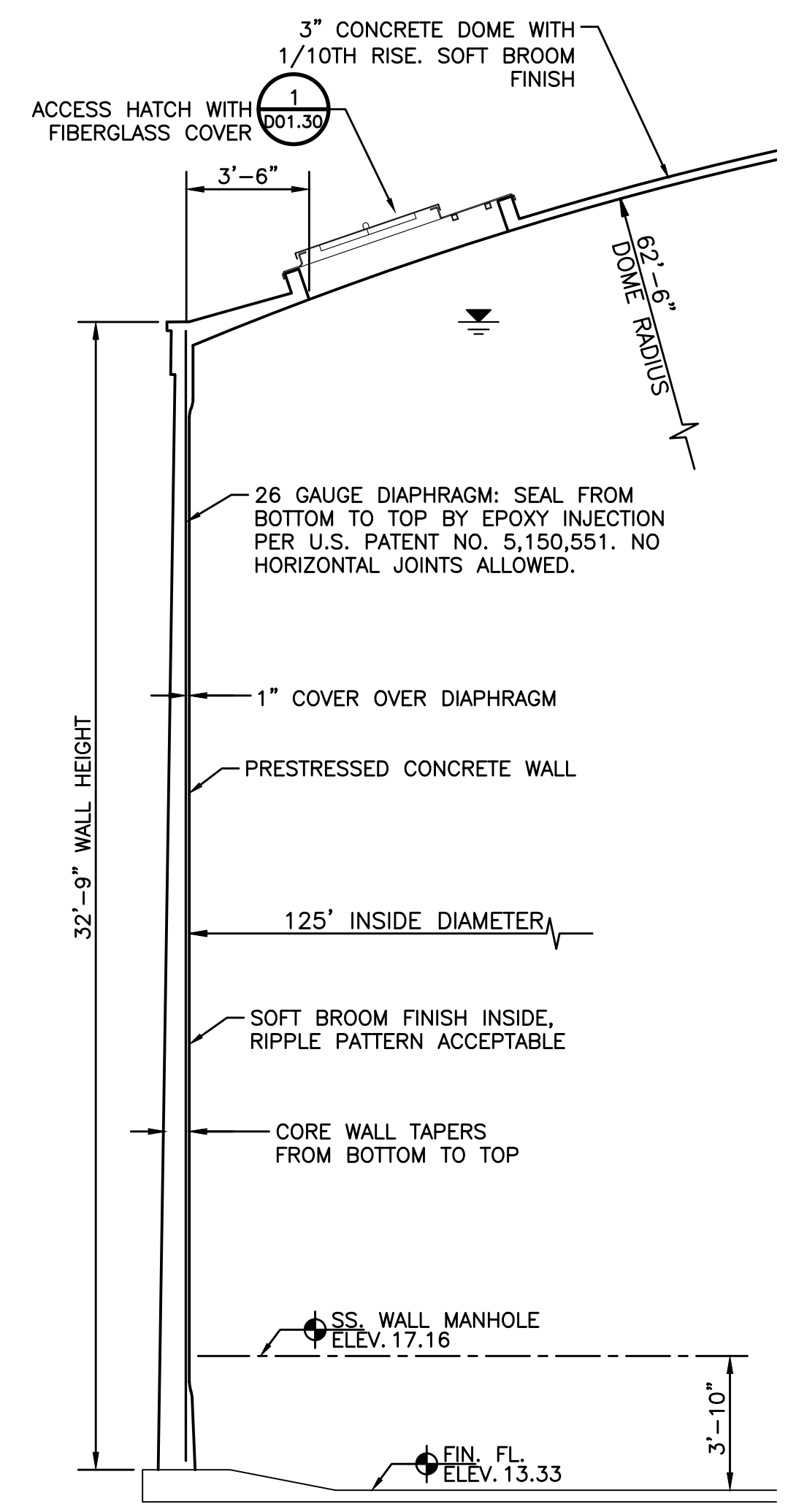
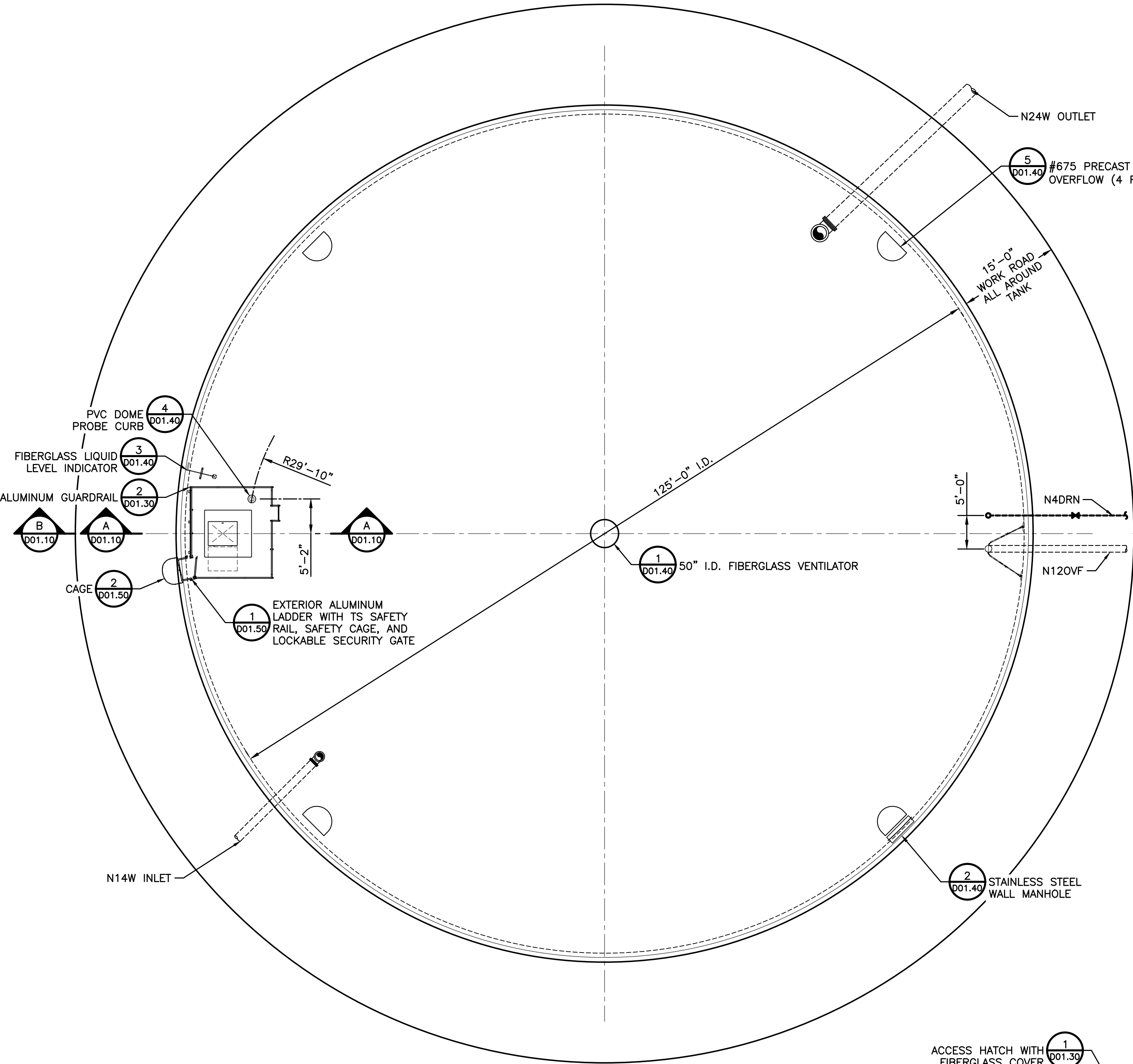
PROJECT & FILE NUMBER
PROJECT NO.: 60744999
DWI PROJECT NO.: SRP-D-134-0076

SHEET TITLE
YARD PIPING PLAN

SHEET NUMBER
C02.40

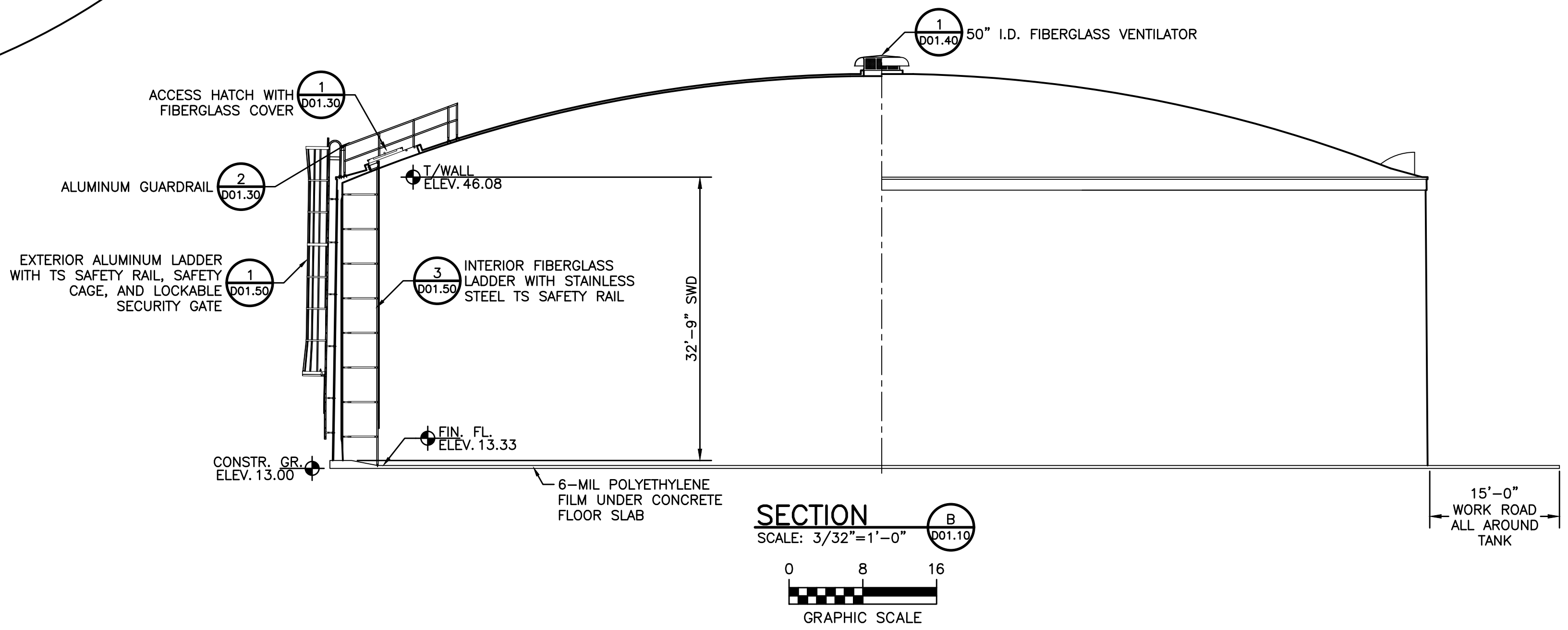
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ANS I D 22' x 34' Approved: KR Checked: CJP Designer: KR Project Management Initials: Project Eng.: CAD: GIS: 10. CAD: 2-SHEETS: 60744989. CROM-PLAN-SECT-DET.LDW
 Project Management Initials: Project Eng.: CAD: GIS: 10. CAD: 2-SHEETS: 60744989. CROM-PLAN-SECT-DET.LDW
 Last saved by: KOSTUCHENKOL (2025-10-03) Last Plotted: 2025-11-24
 Filename: C:\USERS\KOSTUCHENKOL\AECOM\60744989\ELIZABETH CITY 3MG RWIR\ELIZABETH CITY 3MG RWIR - 60744989\ELIZABETH CITY 3MG RWIR.DWG



SECTION A
 SCALE: 1/4" = 1'-0"
 GRAPHIC SCALE

PLAN
 SCALE: 3/32" = 1'-0"
 GRAPHIC SCALE



SECTION B
 SCALE: 3/32" = 1'-0"
 GRAPHIC SCALE

- NOTES:
- SHORTCRETE SHALL BE APPLIED BY OR UNDER DIRECT SUPERVISION OF NOZZLEMEN CERTIFIED BY THE AMERICAN CONCRETE INSTITUTE AS OUTLINED IN ACI CERTIFICATION PUBLICATION CP-60.
 - TENSION IN PRESTRESSING WIRE SHALL BE MEASURED BY AN ELECTRONIC DIRECT-READING STRESSOMETER ACCURATE TO WITHIN 2%.
 - FIELD VERIFY ALL ACCESSORY & PIPE LOCATIONS WITH ENGINEER PRIOR TO PLACEMENT.

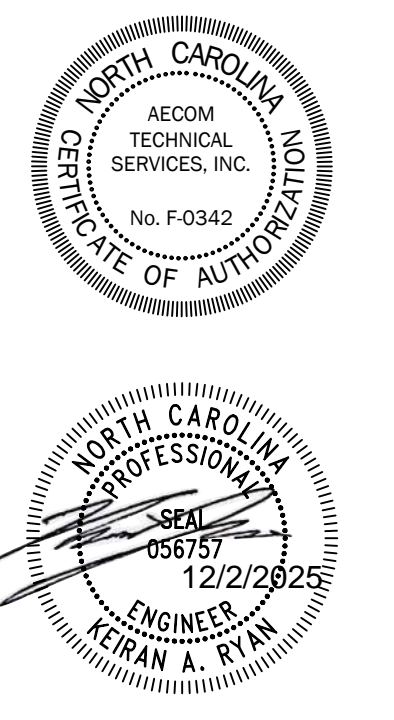


PROJECT
REPLACEMENT OF 3.0 MILLION GALLON RAW WATER RESERVOIR
 WATER TREATMENT PLANT
 1 WILSON STREET
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PROJECT & FILE NUMBER

PROJECT NO.: 60744989
 DWI PROJECT NO.: SRP-D-134-0076

SHEET TITLE

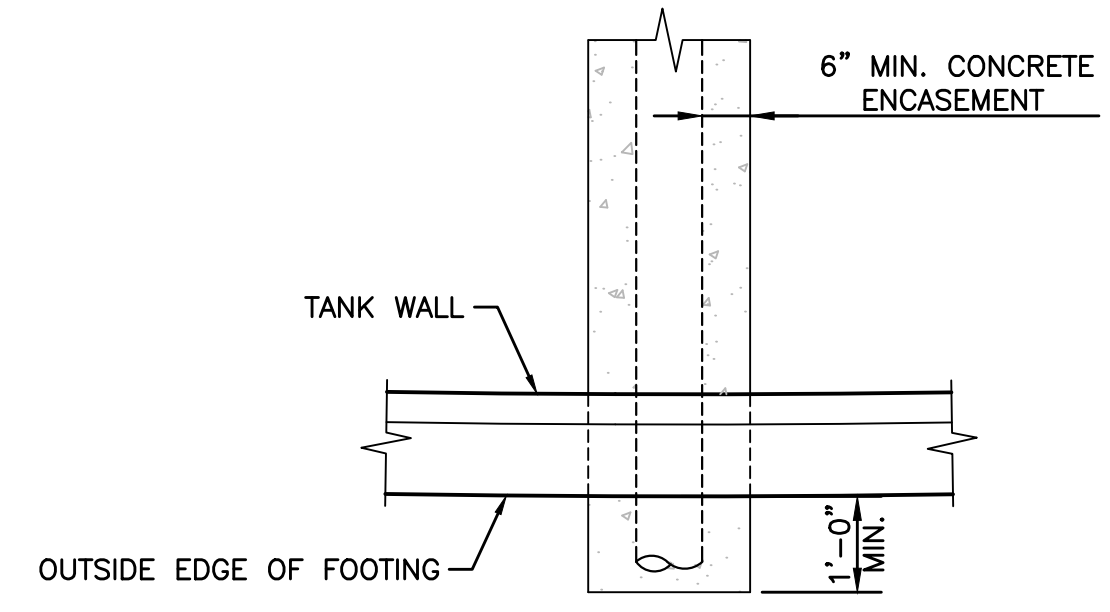
RAW WATER RESERVOIR PLAN & SECTIONS

SHEET NUMBER

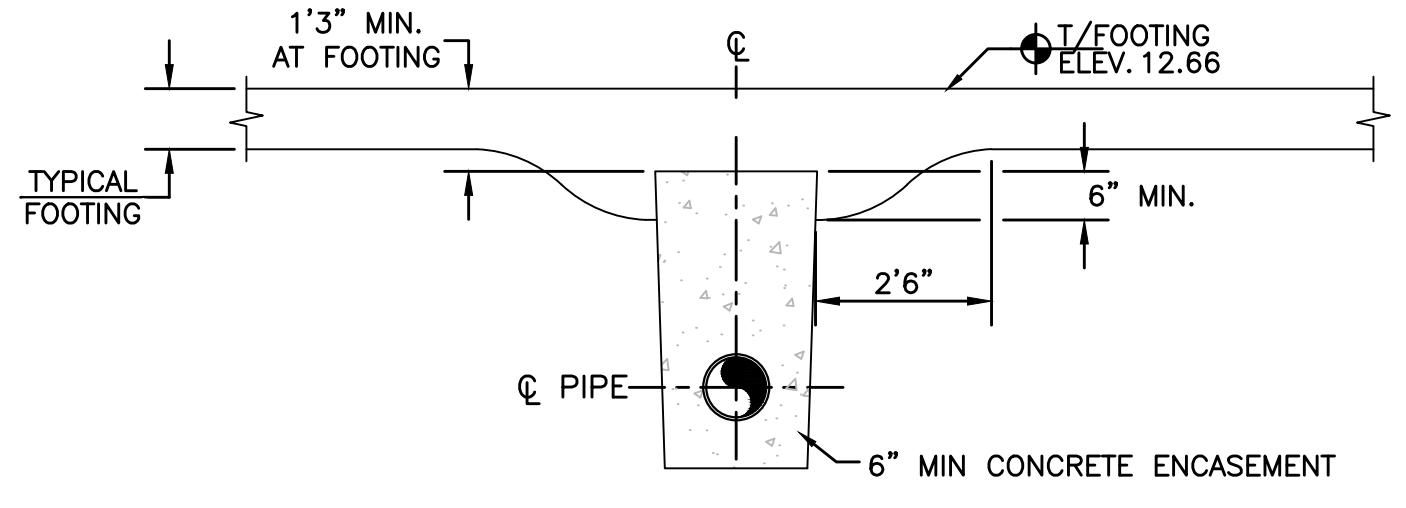
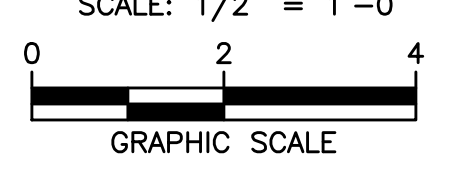
D01.10

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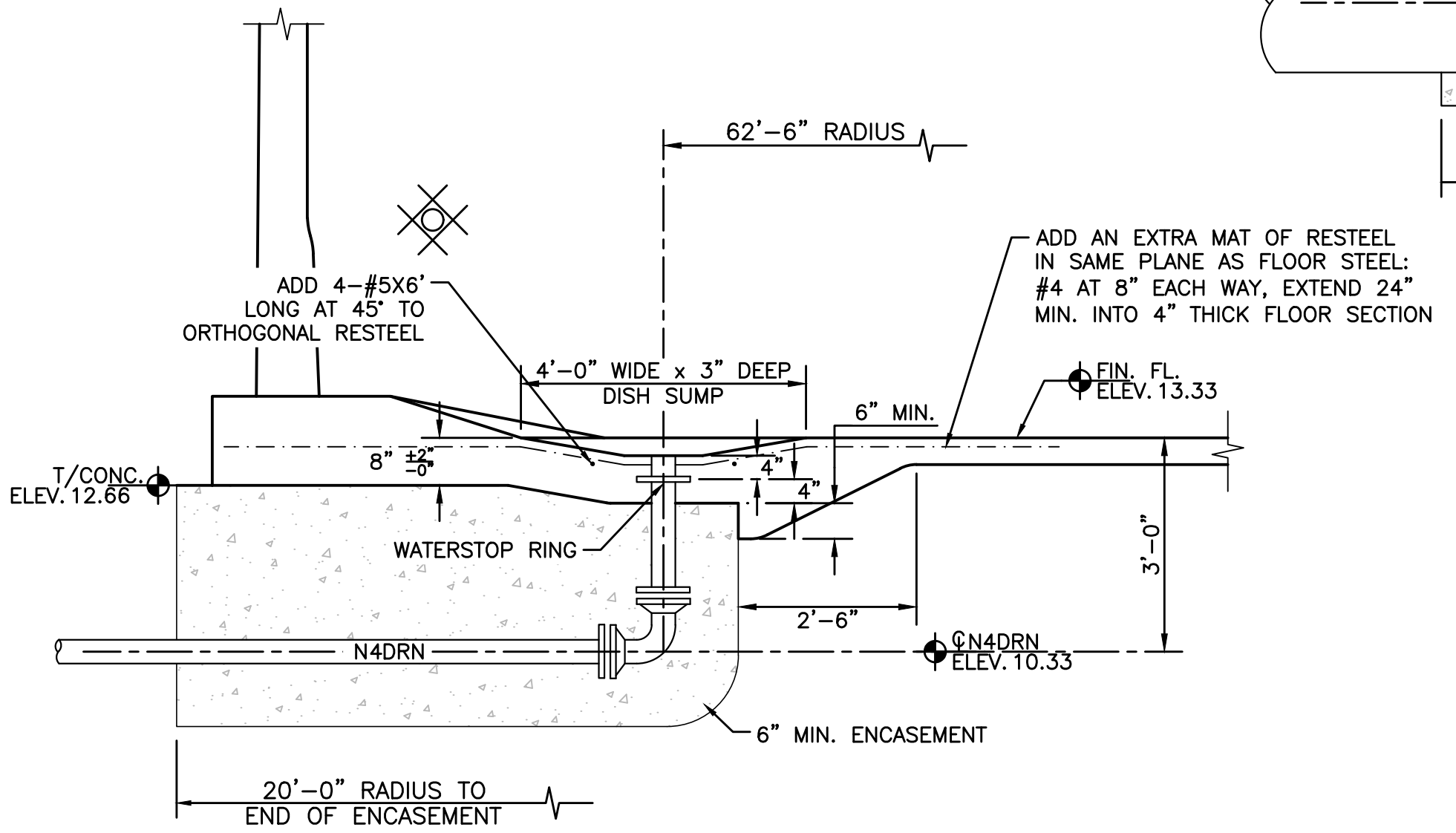
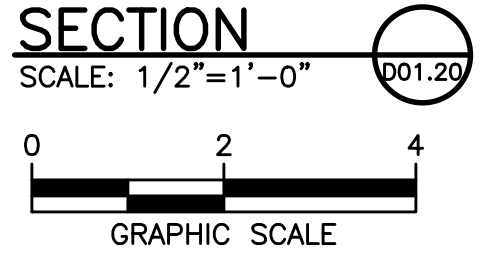
ANS I D 22' x 34' Approved: KR Checked: CJP Designer: KR
 Project Management Initials: Project Eng.: GIBS/10 CAD/2-SHEE/TS/60744999 CHROM/PLAN-SECT-DET/L/DWG
 Last saved by: KOSTUCHENKOL/2025-10-03 Last Plotted: 2025-11-24
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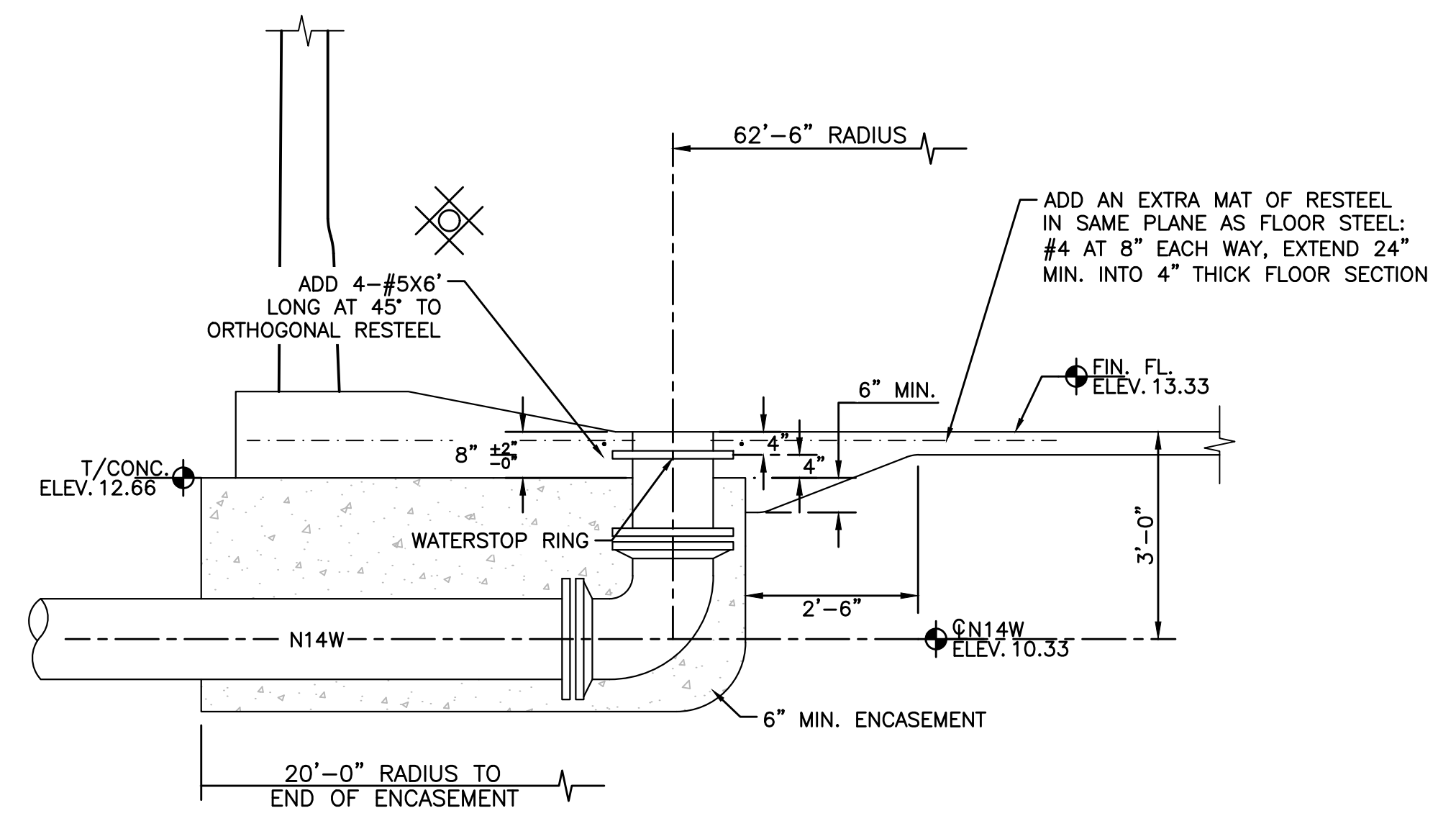
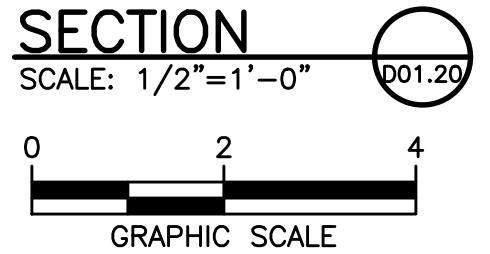
TYPICAL PIPE ENCASEMENT
PLAN
SCALE: 1/2" = 1'-0"



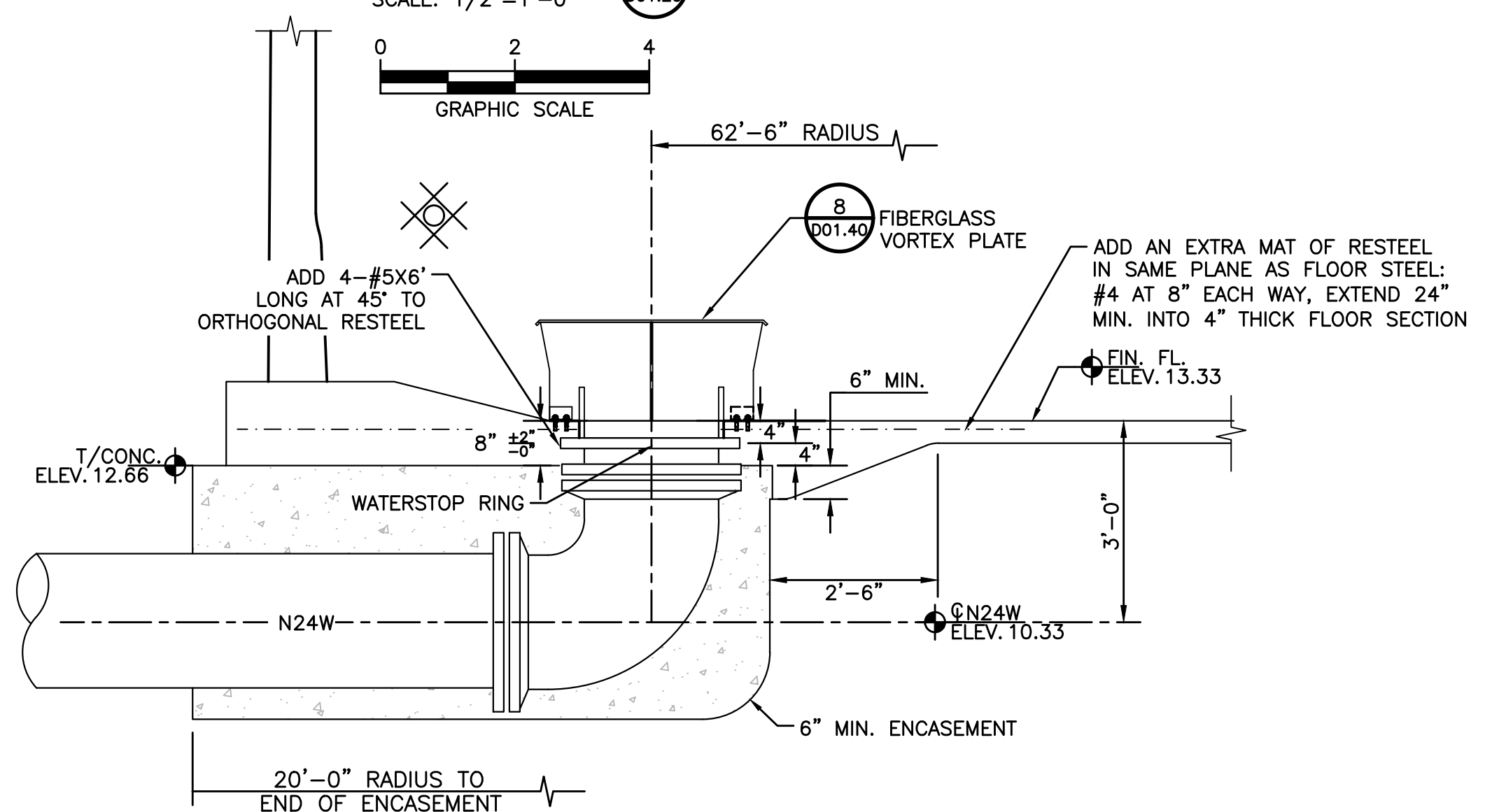
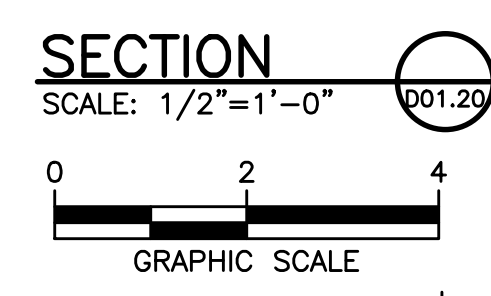
TYPICAL PIPE ENCASEMENT AT FOOTING
SECTION
SCALE: 1/2" = 1'-0"



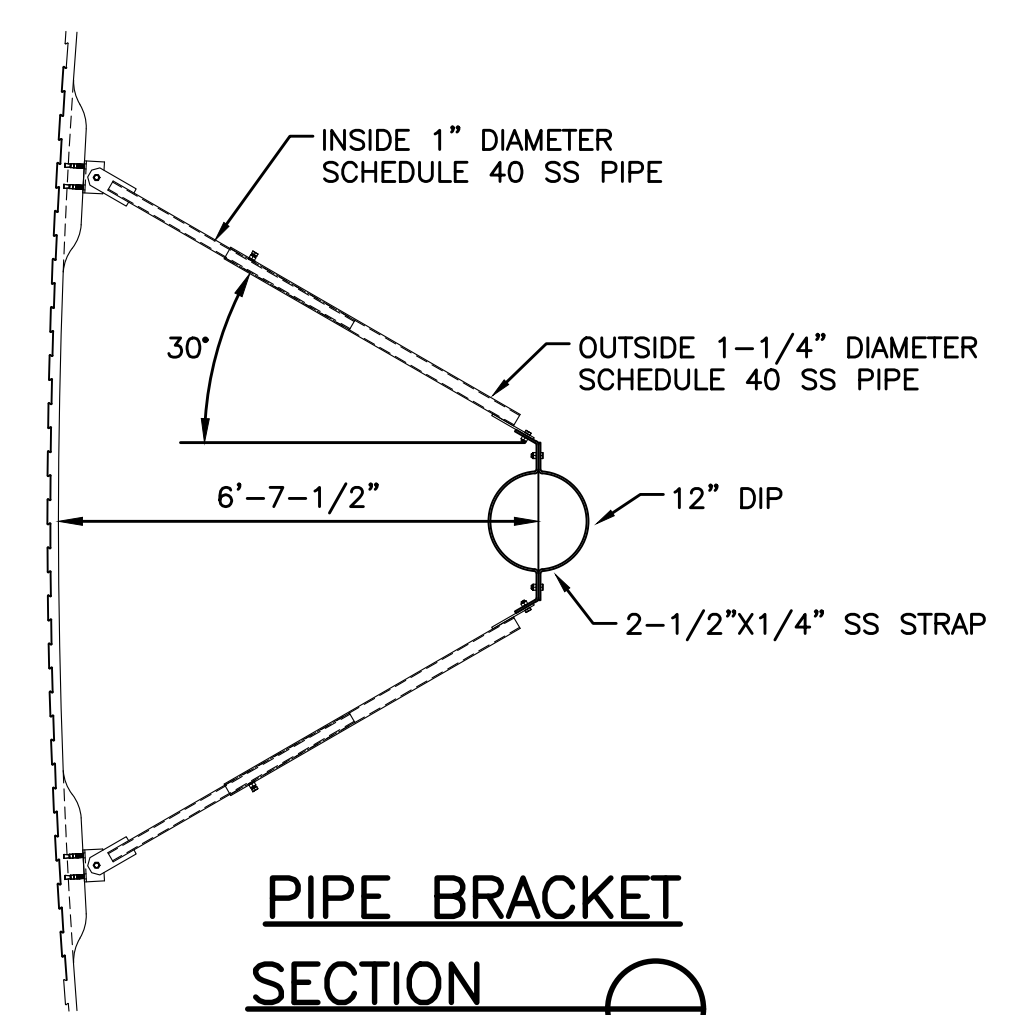
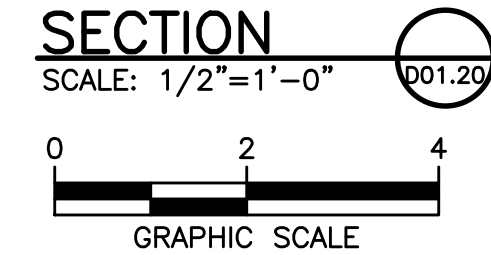
4" DIP DRAIN
SECTION
SCALE: 1/2" = 1'-0"



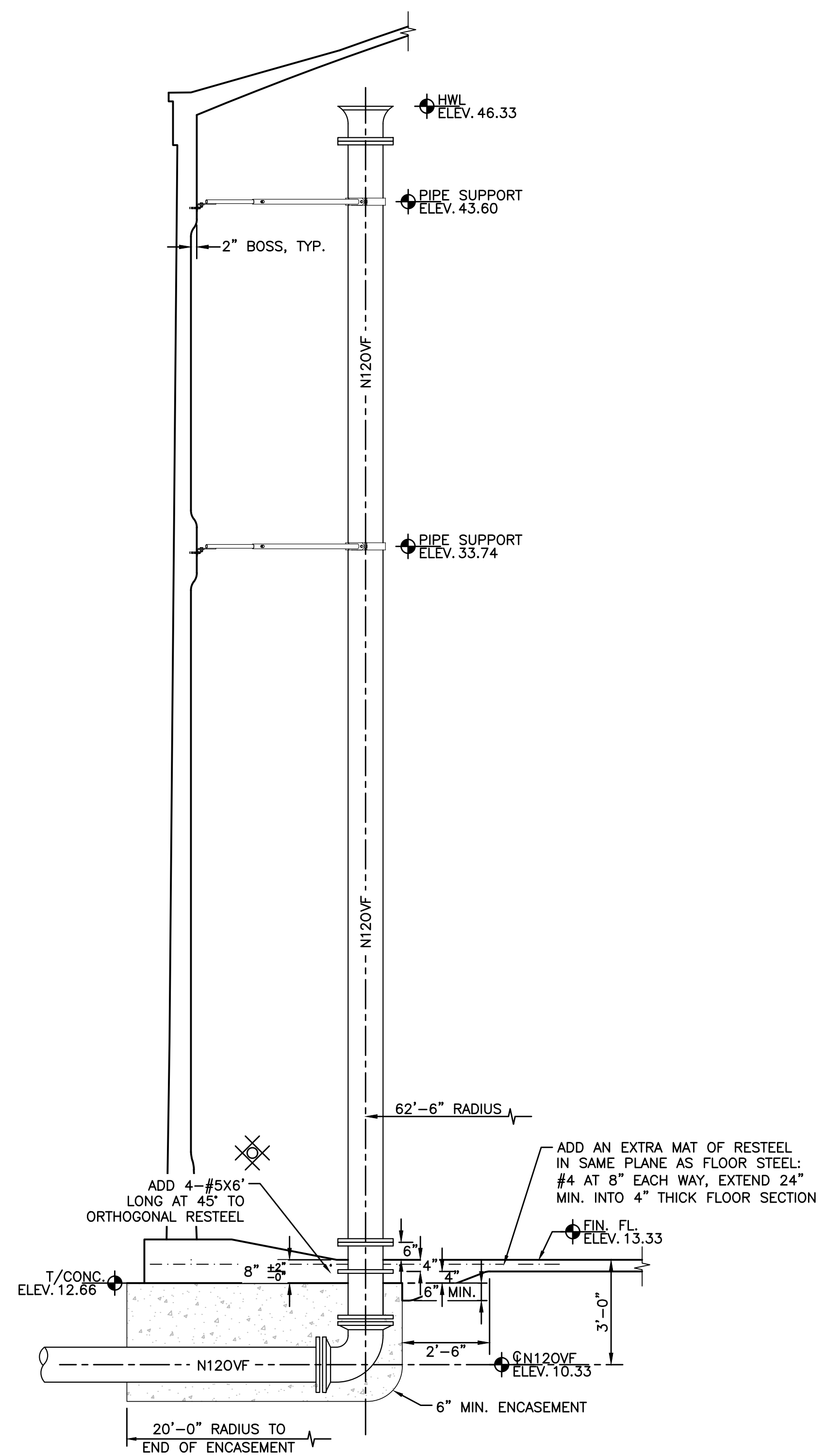
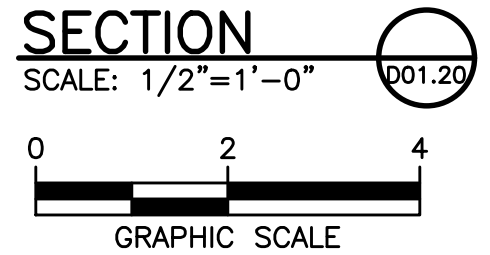
14" DIP INLET
SECTION
SCALE: 1/2" = 1'-0"



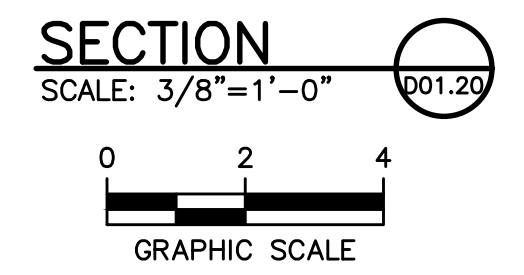
24" DIP OUTLET
SECTION
SCALE: 1/2" = 1'-0"



PIPE BRACKET
SECTION
SCALE: 1/2" = 1'-0"



12" DIP OVERFLOW
SECTION
SCALE: 3/8" = 1'-0"



PROJECT
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 1 WILSON STREET
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CLIENT
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KEY PLAN
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PROJECT & FILE NUMBER

PROJECT NO.: 60744999
 DWI PROJECT NO.: SRP-D-134-0076

SHEET TITLE

RAW WATER RESERVOIR PIPING SECTION

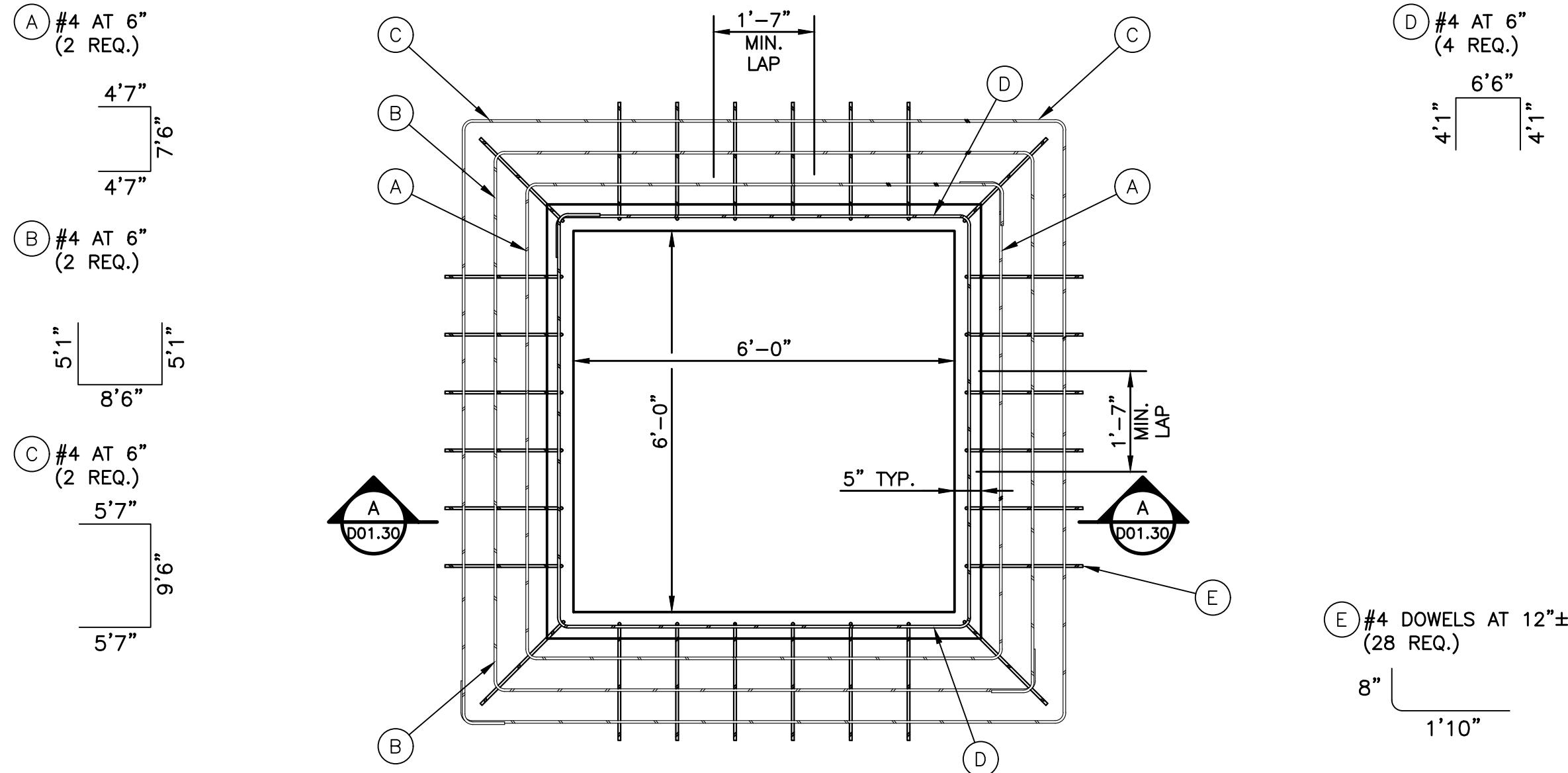
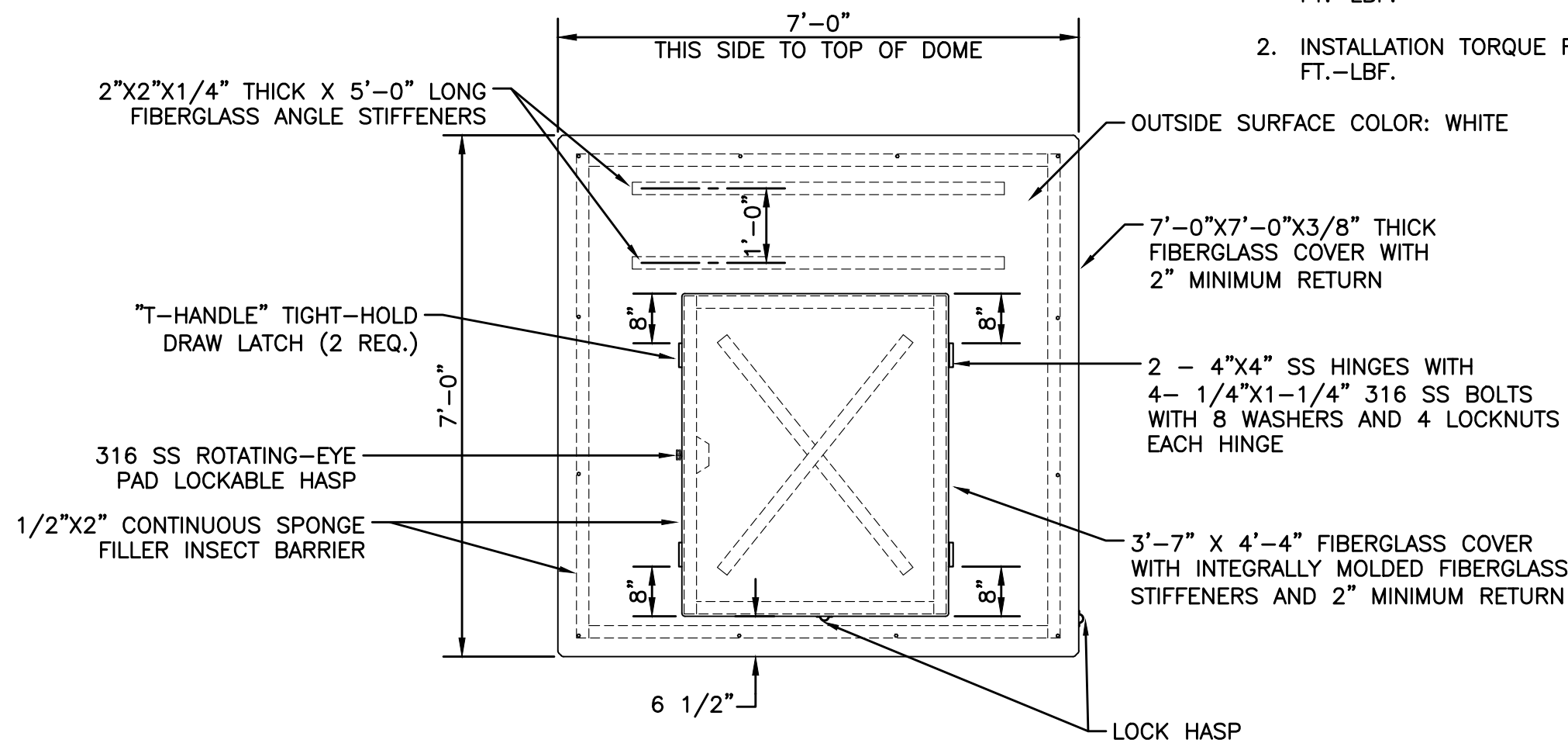
SHEET NUMBER

D01.20

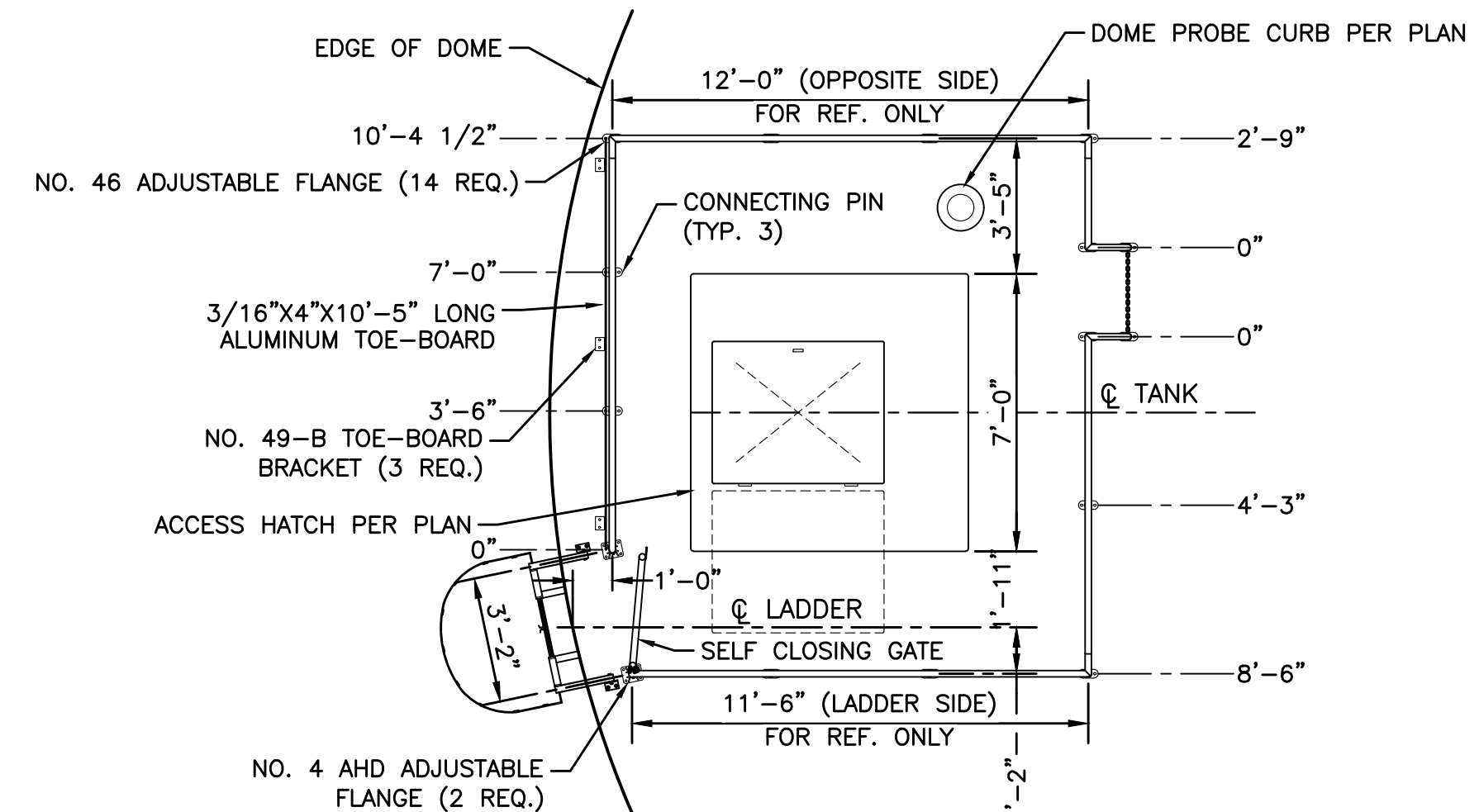
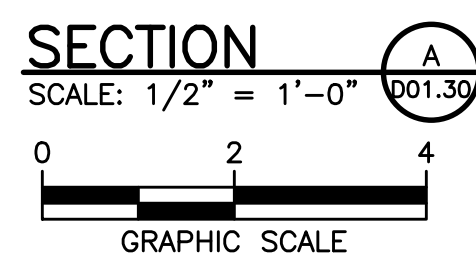
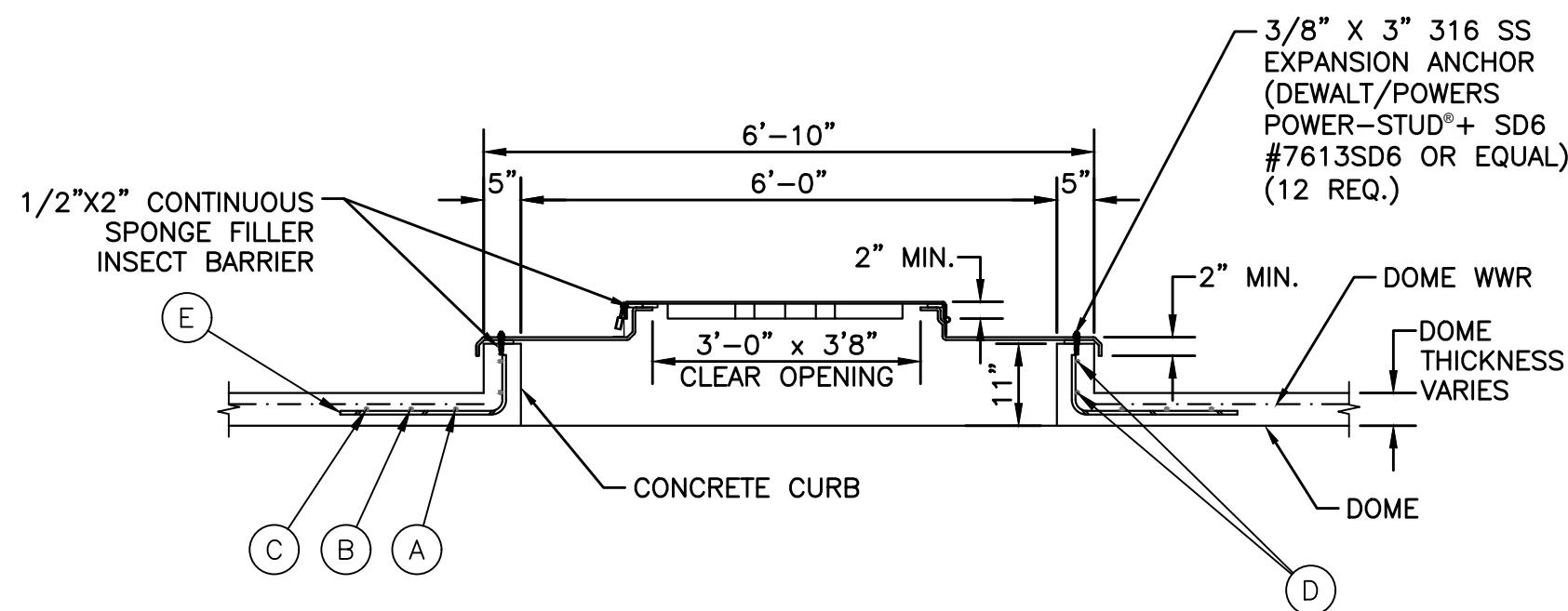
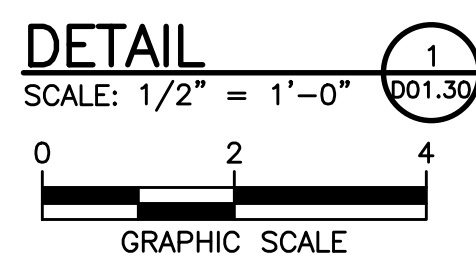
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NOTES:

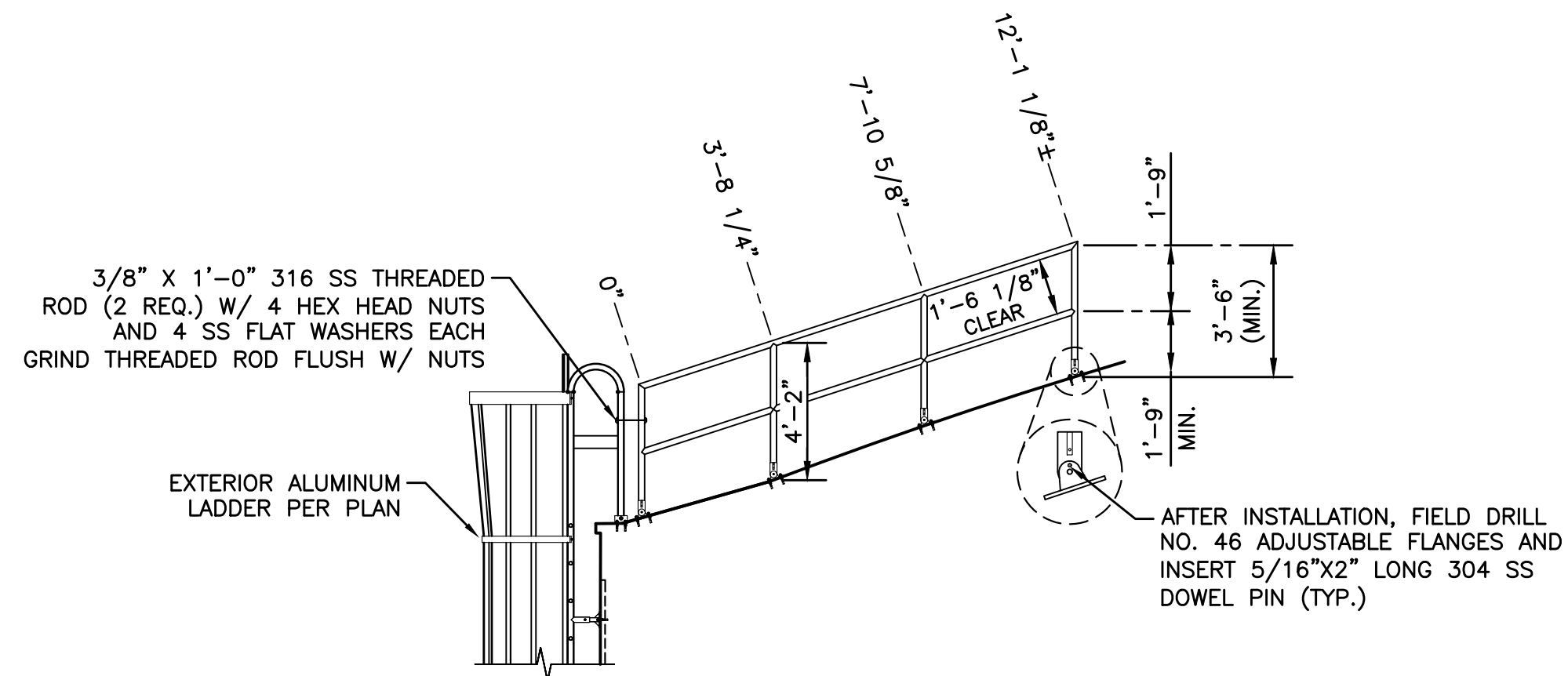
1. INSTALLATION TORQUE FOR 3/8" 316 SS EXPANSION ANCHORS (DEWALT/POWERS POWER-STUD+ SD6): 25 FT.-LBF.
2. INSTALLATION TORQUE FOR 1/4" 316 SS BOLT: 6.5 FT.-LBF.



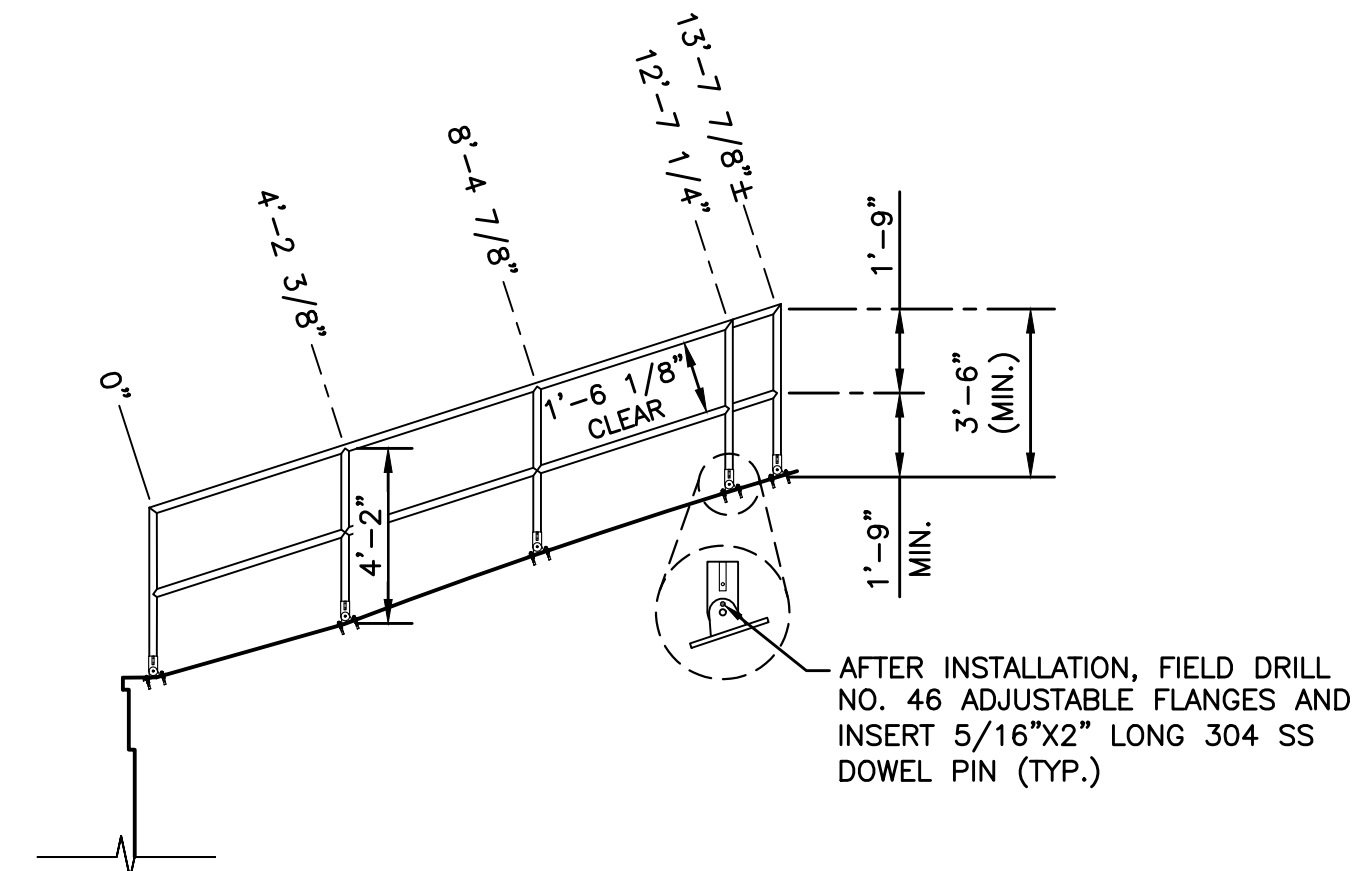
ACCESS HATCH WITH FIBERGLASS COVER



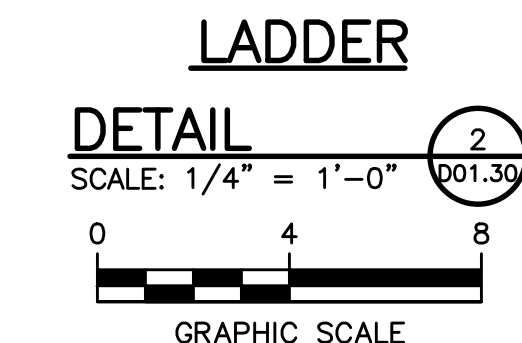
PLAN



LADDER SIDE ELEVATION



OPPOSITE SIDE ELEVATION



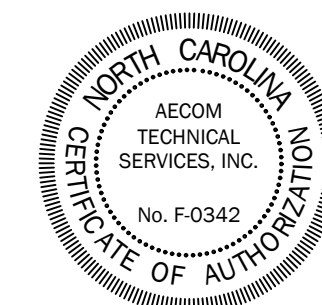
NOTES:

1. USE HOLLANDER HIGH TENSILE ALUMINUM ALLOY FITTINGS.
2. USE 1 1/2" SCHEDULE 40/6061-T6 ALUMINUM PIPE.
3. TOE-BOARDS TO BE 6061-T6 ALUMINUM.
4. USE 1/2" x 3 3/4" 316 SS EXPANSION ANCHORS (DEWALT/POWERS POWER-STUD+ SD6 #7622SD6 OR EQUAL) WITH 2" MAX. EMBEDMENT (42 REQ.).
5. 316 SS CHAIN WITH CLASS "D" HOOK AT ONE END AND THREADED CONNECTING LINK AT OTHER END x 2'6" LONG.
6. ALL ALUMINUM IN DIRECT CONTACT WITH CONCRETE SHALL BE COATED WITH A MINIMUM 8.0 DRY MIL THICKNESS SERIES 46-465 H.B. TNEMECOL OR EQUAL.
7. INSTALLATION TORQUE FOR 1/2" 316 SS EXPANSION ANCHORS (DEWALT/POWERS POWER-STUD+ SD6): 40 FT.-LBF.
8. INSTALLATION TORQUE FOR 3/8" 316 SS BOLT: 20.5FT.-LBF.

CLIENT

CONSULTANT

REGISTRATION



ISSUE/REVISION

NO.	DATE	DESCRIPTION
0		

KEY PLAN

SHEET SCALE: AS SHOWN

BID DOCUMENTS
THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

PROJECT & FILE NUMBER

PROJECT NO.: 60744999
DWI PROJECT NO.: SRP-D-134-0076

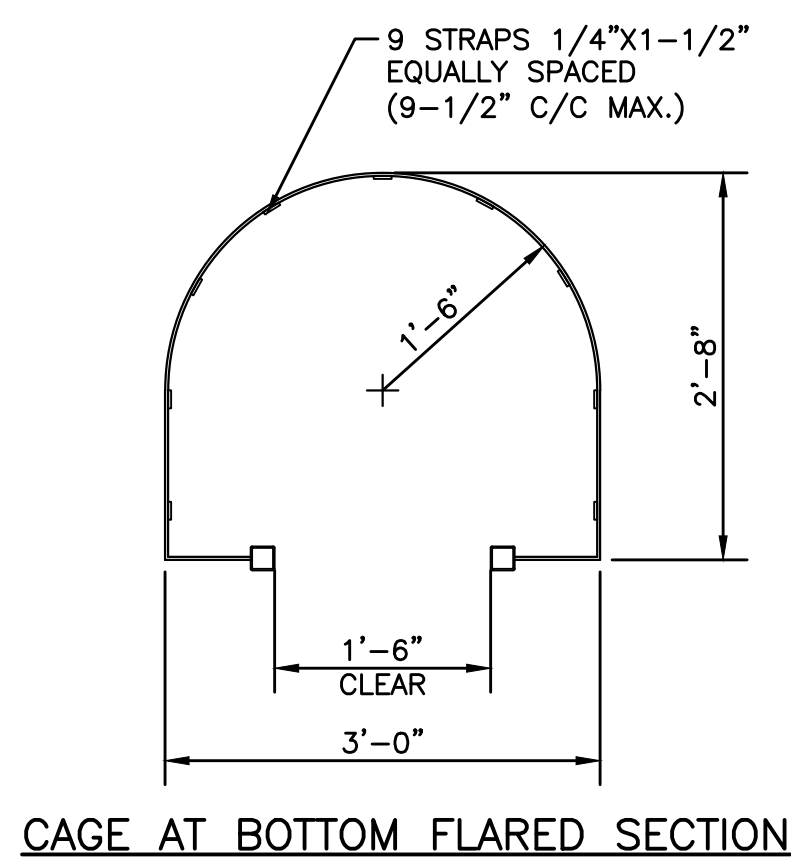
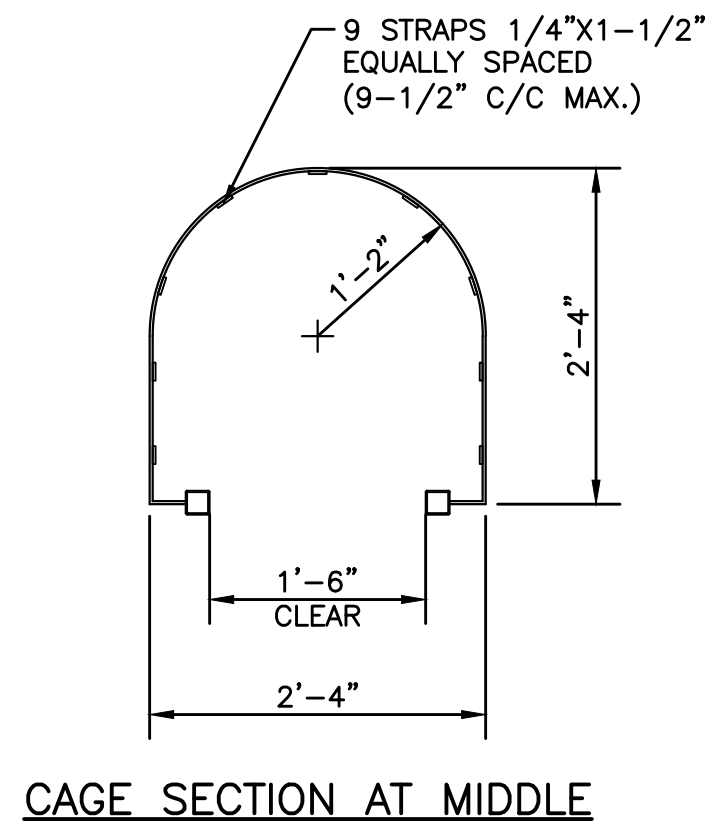
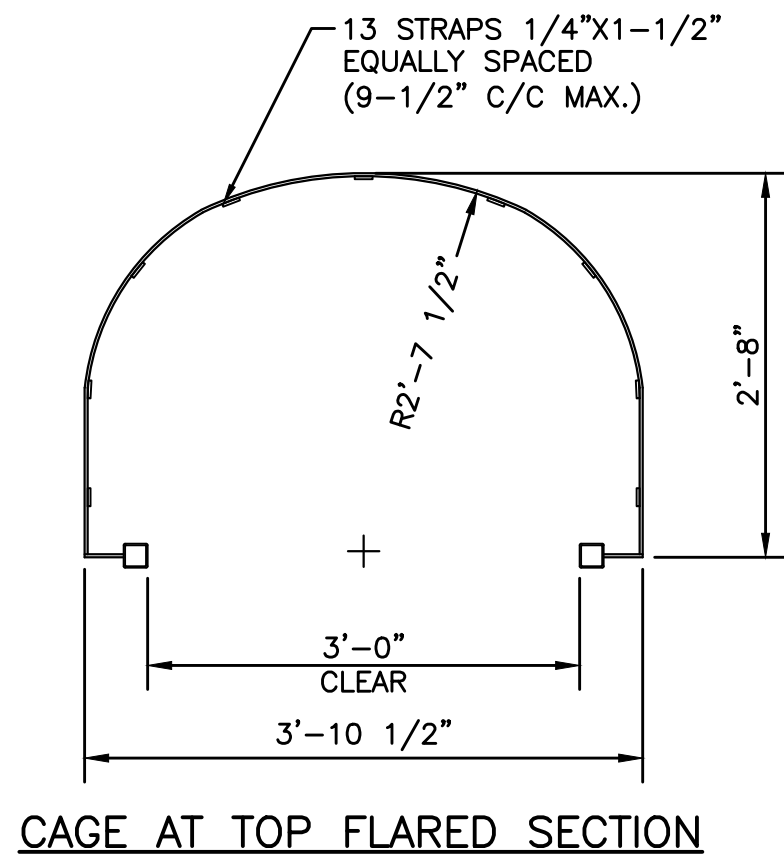
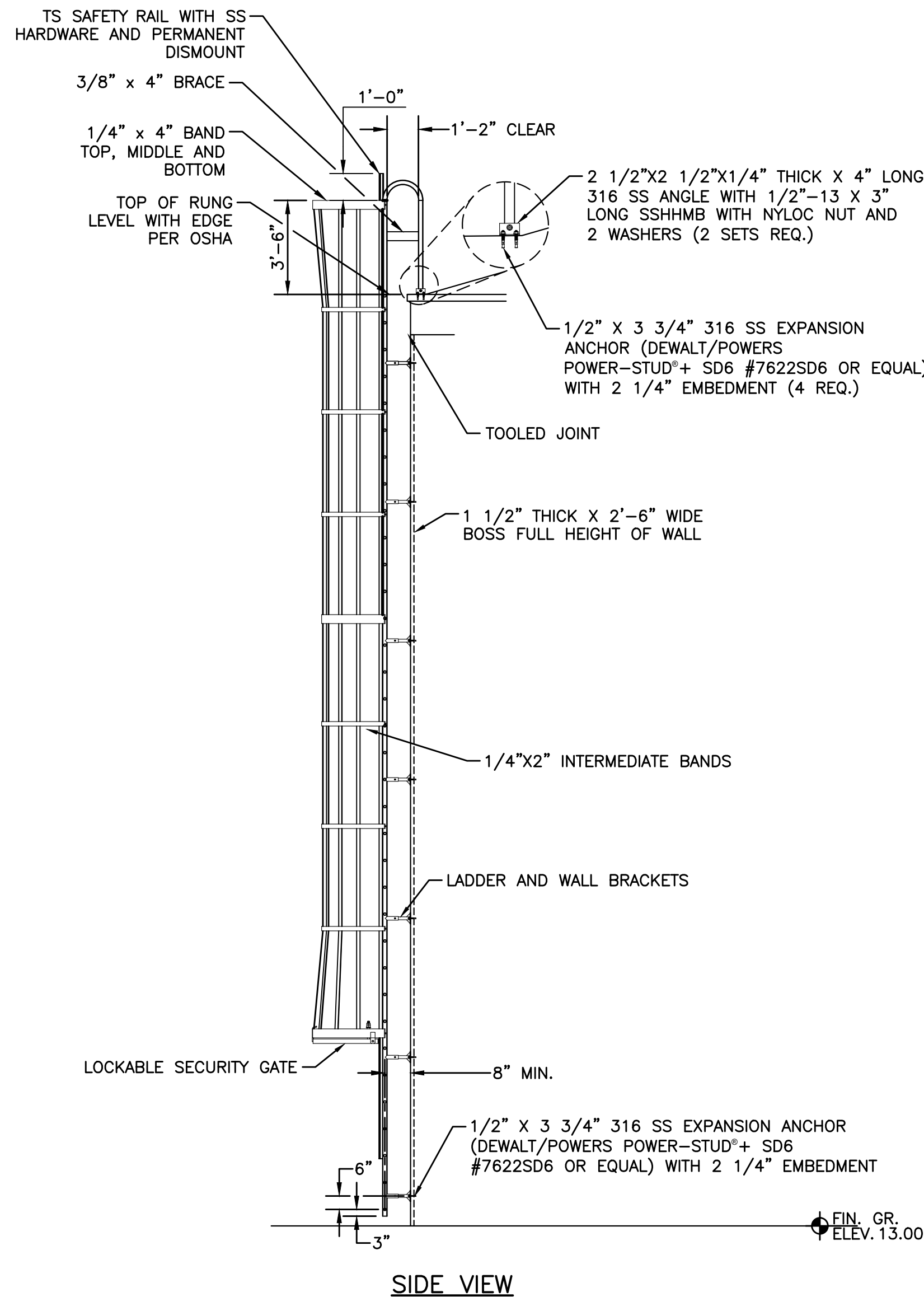
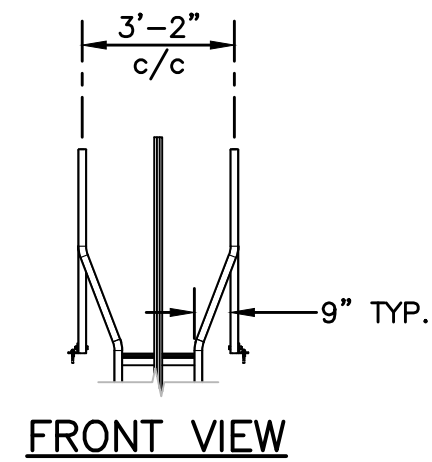
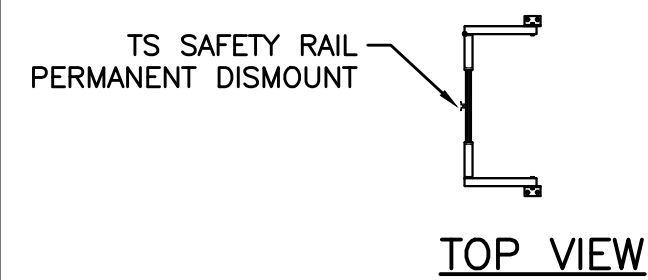
SHEET TITLE

RAW WATER RESERVOIR
DETAILS I

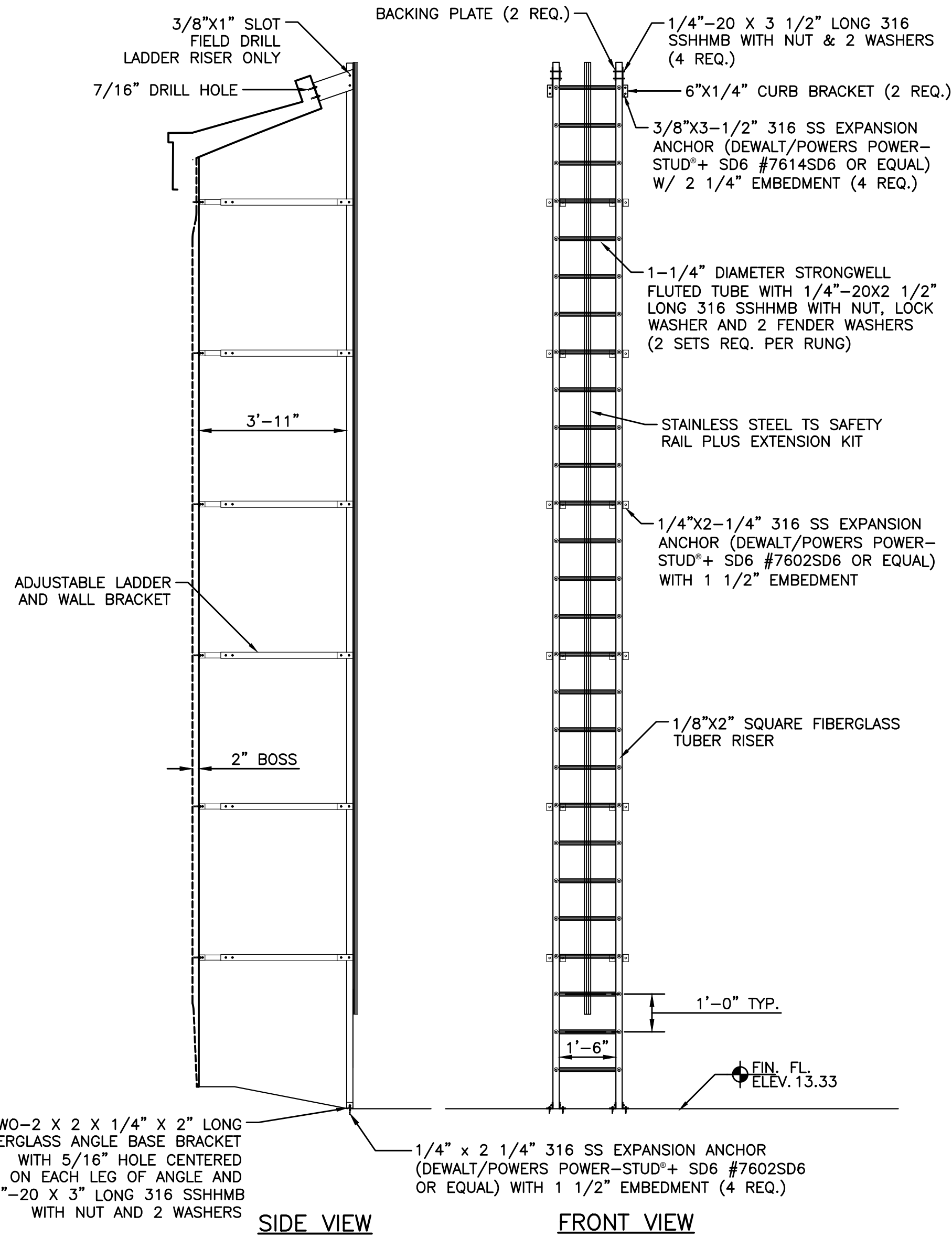
SHEET NUMBER

D01.30

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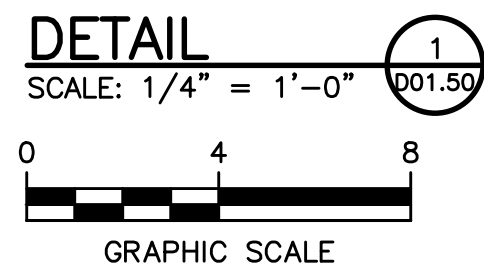


- NOTES:**
- 1/4" x 2" FLAT BAR FIBERGLASS CROSS BRACE TO BE PROVIDED FOR BRACING WALL BRACKET SUPPORTS ON EVERY BRACKET.
 - INSTALLATION TORQUE FOR 1/4" 316 SS EXPANSION ANCHORS (DEWALT/POWERS POWER-STUD®+ SD6): 6 FT.-LBF.
 - INSTALLATION TORQUE FOR 3/8" 316 SS EXPANSION ANCHORS (DEWALT/POWERS POWER-STUD®+ SD6): 25 FT.-LBF.
 - INSTALLATION TORQUE FOR 1/4" 316 SS BOLT: 6.5 FT.-LBF.

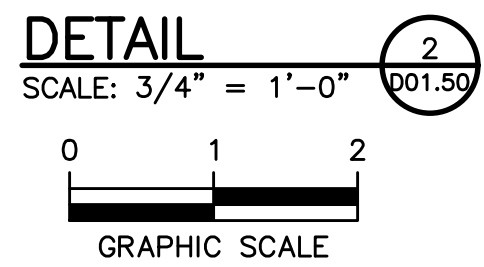


- NOTES:**
- LADDER HAS 2 x 2 x 1/8" SQUARE TUBE RAILS WITH 1 1/4" DIAMETER EXTRUDED RUNGS SPACED AT 1'0" c/c.
 - ALL MATERIAL TO BE NOMINAL DIAMETER SCHEDULE 40 ALUMINUM PIPE OR SQUARE TUBE 6061-T6 OR 6063-T6.
 - PLATES AND GUSSETS TO BE STRUCTURAL GRADE ALUMINUM 6061-T6.
 - ALL ALUMINUM IN DIRECT CONTACT WITH CONCRETE SHALL BE COATED WITH A MINIMUM 8.0 DRY MIL THICKNESS SERIES 46-465 H.B. TNECOL OR EQUAL.
 - ALL RAILS WHEN PROPERLY INSTALLED SHALL MEET OR EXCEED OSHA REQUIREMENTS.
 - INSTALLATION TORQUE FOR 1/2" 316 SS EXPANSION ANCHORS (DEWALT/POWERS POWER-STUD®+ SD6): 40 FT.-LBF.
 - INSTALLATION TORQUE FOR 1/2" 316 SS BOLT: 46 FT.-LBF.

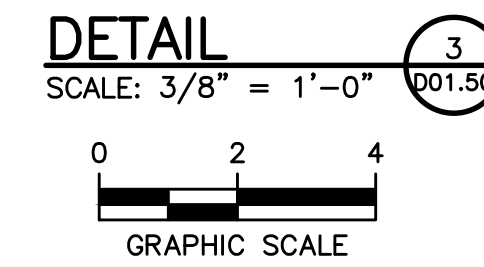
EXTERIOR ALUMINUM LADDER



CAGE SECTIONS



INTERIOR FIBERGLASS LADDER



REGISTRATION



ISSUE/REVISION

NO.	DATE	DESCRIPTION
0		

KEY PLAN

SHEET SCALE: AS SHOWN

BID DOCUMENTS
THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

PROJECT & FILE NUMBER

PROJECT NO.: 60744989
DWI PROJECT NO.: SRP-D-134-0076

SHEET TITLE

RAW WATER RESERVOIR DETAILS III

SHEET NUMBER

D01.50

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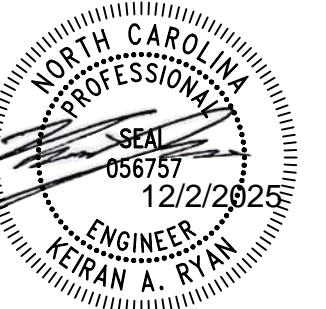
ANSID 22" x 34" Approved: KR Checked: CJP Designer: KR Project Management Initials: Project Eng.: DWI File name: C:\USERS\KOSTUCHENKOL\AECOM\60744999\ELIZABETH CITY 3MG RW\R-60744999\ELIZABETH CITY 3MG RW\CAD\2-SHEET\60744999-DETAILS.DWG Last plotted: 2025-11-24

PROJECT
 REPLACEMENT OF 3.0 MILLION GALLON RAW WATER RESERVOIR
 WATER TREATMENT PLANT
 1 WILSON STREET
 ELIZABETH CITY, NC 27909

CLIENT
 CITY OF ELIZABETH CITY, NC
 410 PRITCHARD STREET
 ELIZABETH CITY, NC 27909
 (252) 337-6628

CONSULTANT
 AECOM
 5438 WADE PARK BOULEVARD
 SUITE 200
 RALEIGH, NC, 27606
 (919) 461-1100 (919) 461-1415 (fax)
 WWW.AECOM.COM

REGISTRATION



ISSUE/REVISION

NO.	DATE	DESCRIPTION
0		
1/R		

KEY PLAN

SHEET SCALE: AS SHOWN

BID DOCUMENTS
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PROJECT & FILE NUMBER

PROJECT NO.: 60744999
 DWI PROJECT NO.: SRP-D-134-0076

SHEET TITLE

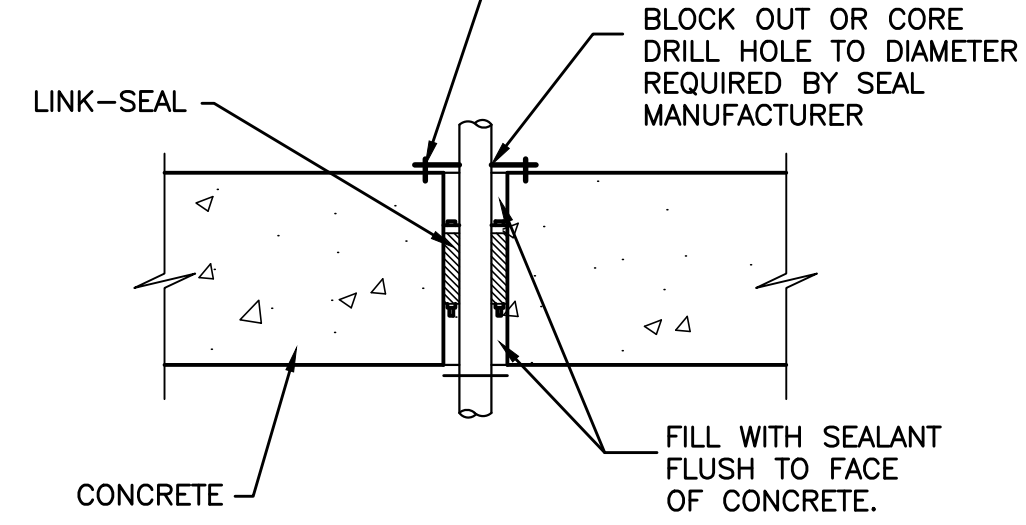
MISCELLANEOUS DETAILS I

SHEET NUMBER

CD01.10

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2 PIECE ALUMINUM COVER PLATE, 1/8" MINIMUM THICKNESS, SECURE WITH SST EXPANSION ANCHOR BOLTS. PROVIDE PLATES ON ALL EXPOSED SIDES



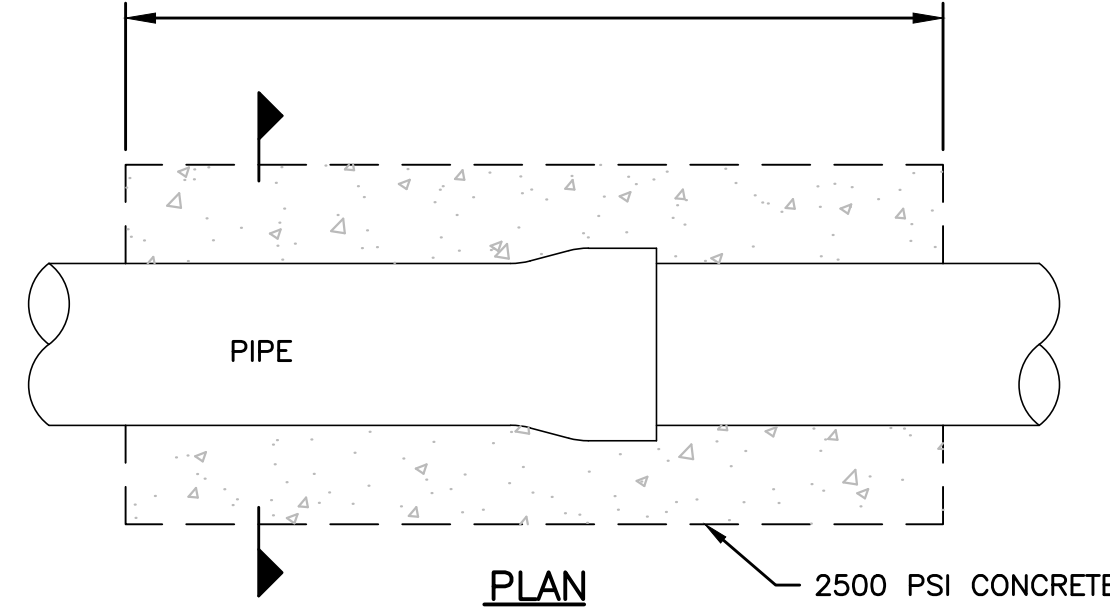
NOTES:

- IF REINFORCEMENT IS CUT, PAINT ENDS PRIOR TO SEALING

PIPE THROUGH CONCRETE

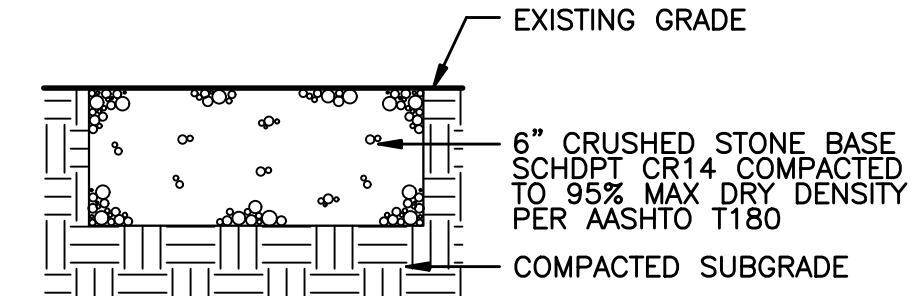
DETAIL
 SCALE: NONE

ENCASE PIPING WHERE INDICATED AND UNDER ROADS, STRUCTURES, AND WITHIN LAGOON OR POND DIKES TO A POINT 12" BEYOND PERMANENT OBJECT ON EACH SIDE OF ENCASMENT



CONCRETE ENCASED PIPE

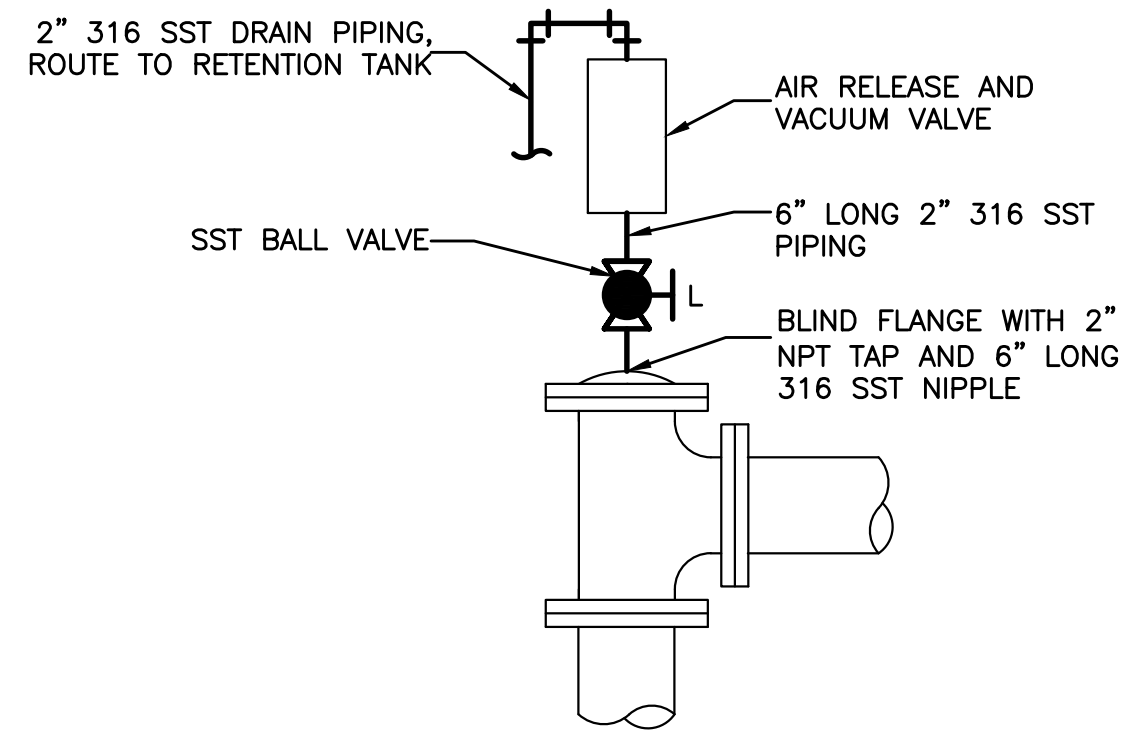
DETAIL
 SCALE: NONE



GRAVEL APRON

GRAVEL APRON

DETAIL
 SCALE: NONE

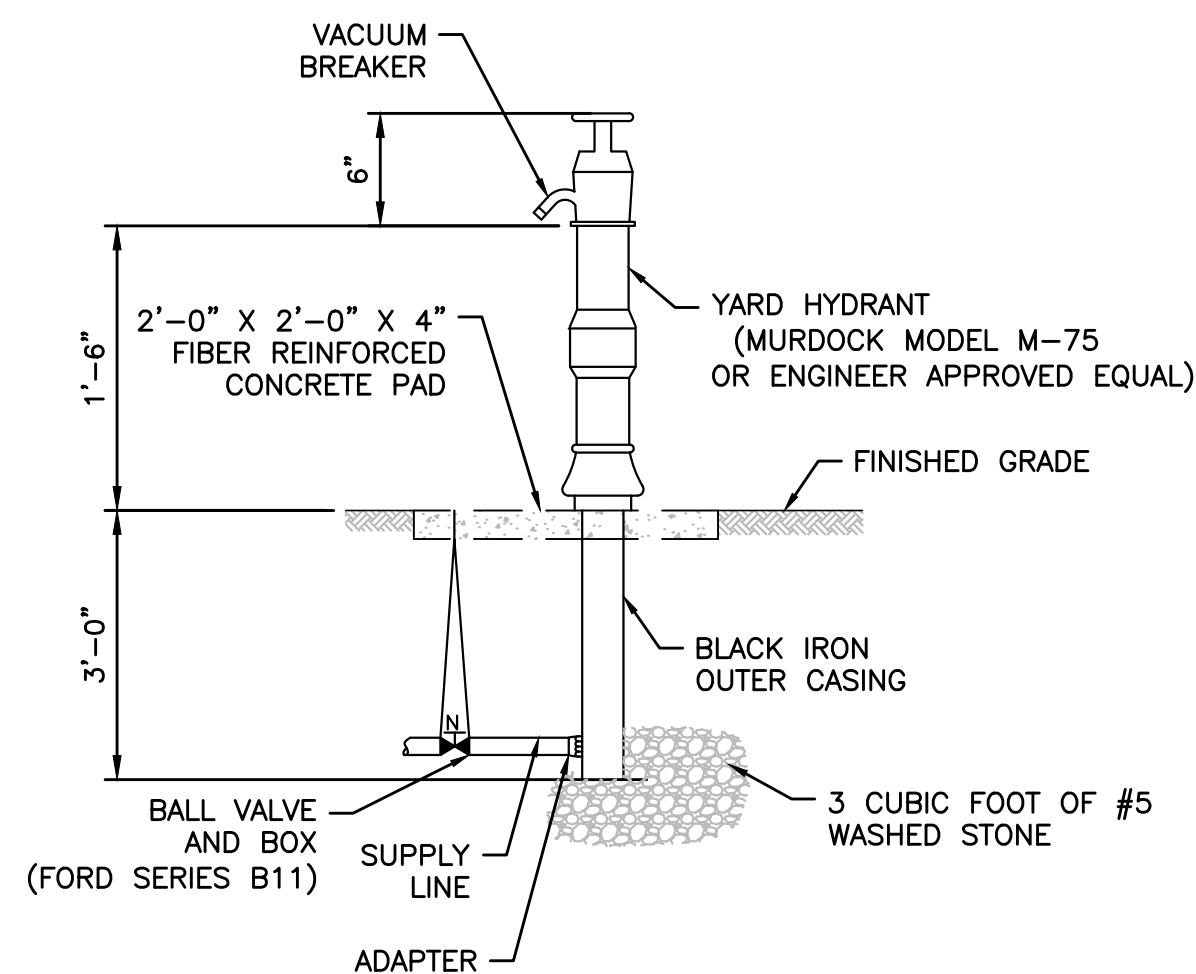


NOTES:

- PIPE SIZE SHOWN MAY VARY WITH AIR RELEASE VALVE SIZE REQUIRED. VERIFY VALVE AND PIPE SIZES WITH EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE 316L SST PIPING AND APPURTENANCES, UNLESS NOTED OTHERWISE.

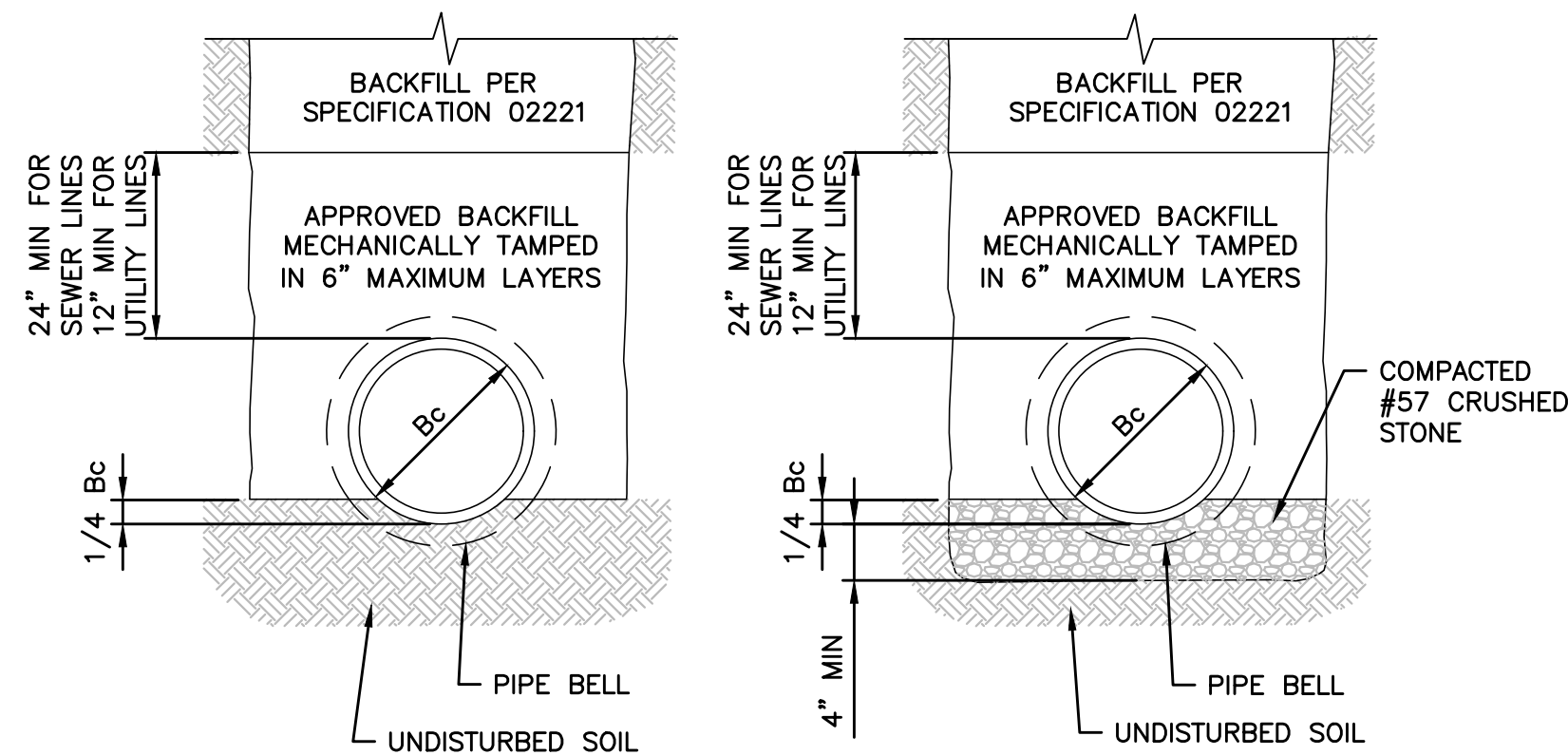
AIR RELEASE VALVE

DETAIL
 SCALE: NONE



YARD HYDRANT

DETAIL
 SCALE: NONE



NOTES:

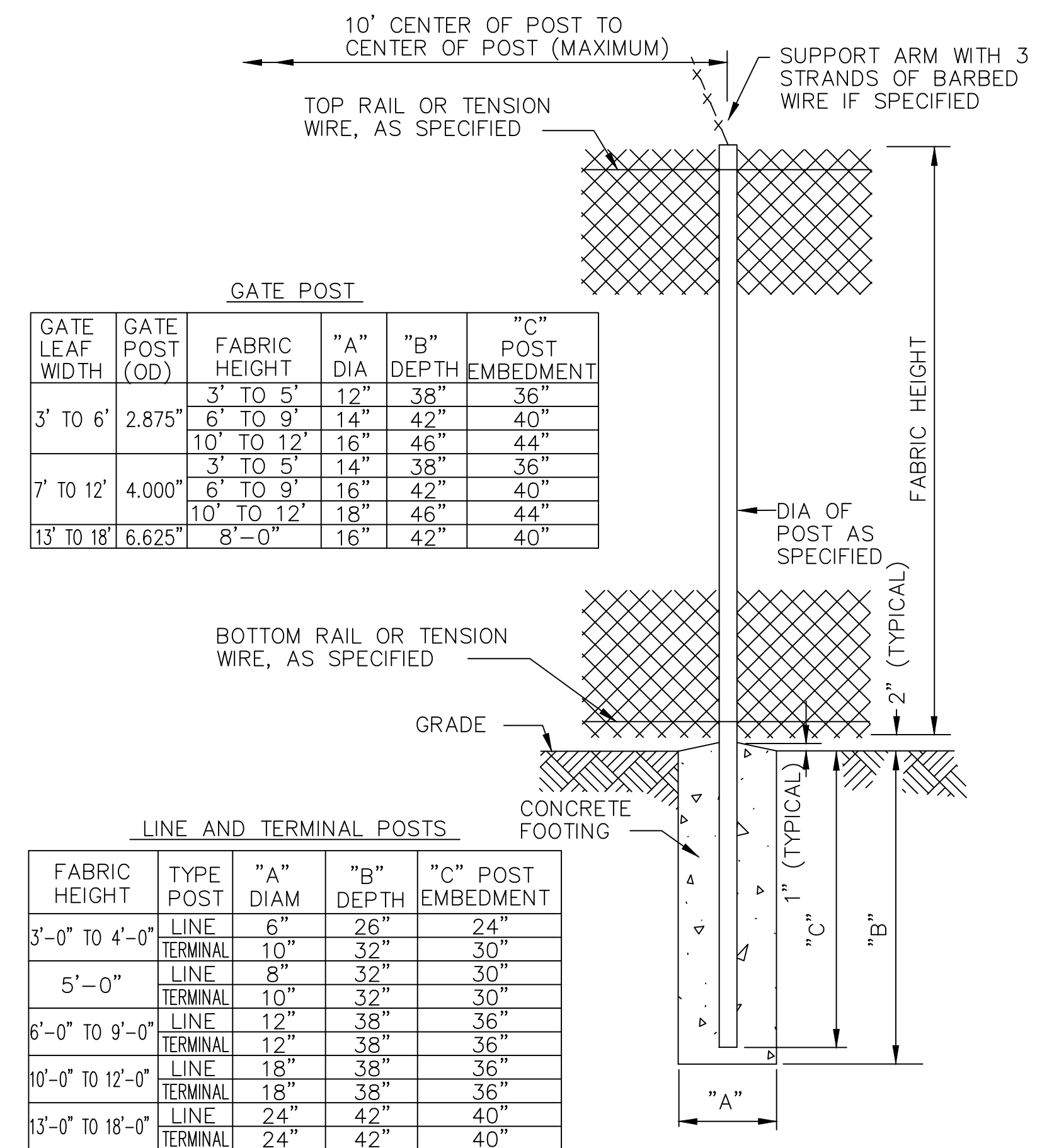
- HAND SHAPED BOTTOM - SHAPE BELL HOLES FOR USE IN DRY EARTH TRENCHES ONLY. APPLICABLE TO BOTH EARTH AND ROCK TRENCHES.

TYPE 1 (NOT FOR GRAVITY LINES)

TYPE 2

CLASS "C" BEDDING

DETAIL
 SCALE: NONE



GATE POST

GATE LEAF WIDTH	GATE POST (OD)	FABRIC HEIGHT	"A" DIA	"B" DEPTH	"C" POST EMBEDMENT
3' TO 6'	2.875"	3' TO 5'	12"	38"	36"
		6' TO 9'	14"	42"	40"
7' TO 12'	4.000"	10' TO 12'	16"	46"	44"
		3' TO 5'	14"	38"	36"
13' TO 18'	6.625"	6' TO 9'	16"	42"	40"
		10' TO 12'	18"	46"	44"

LINE AND TERMINAL POSTS

FABRIC HEIGHT	TYPE POST	"A" DIAM	"B" DEPTH	"C" POST EMBEDMENT
3'-0" TO 4'-0"	LINE	6"	26"	24"
	TERMINAL	10"	32"	30"
5'-0"	LINE	8"	32"	30"
	TERMINAL	10"	32"	30"
6'-0" TO 9'-0"	LINE	12"	38"	36"
	TERMINAL	12"	38"	36"
10'-0" TO 12'-0"	LINE	18"	38"	36"
	TERMINAL	18"	38"	36"
13'-0" TO 18'-0"	LINE	24"	42"	40"
	TERMINAL	24"	42"	40"

NOTE: TERMINAL POSTS INCLUDE END, CORNER, AND PULL POSTS

CHAIN LINK FENCE

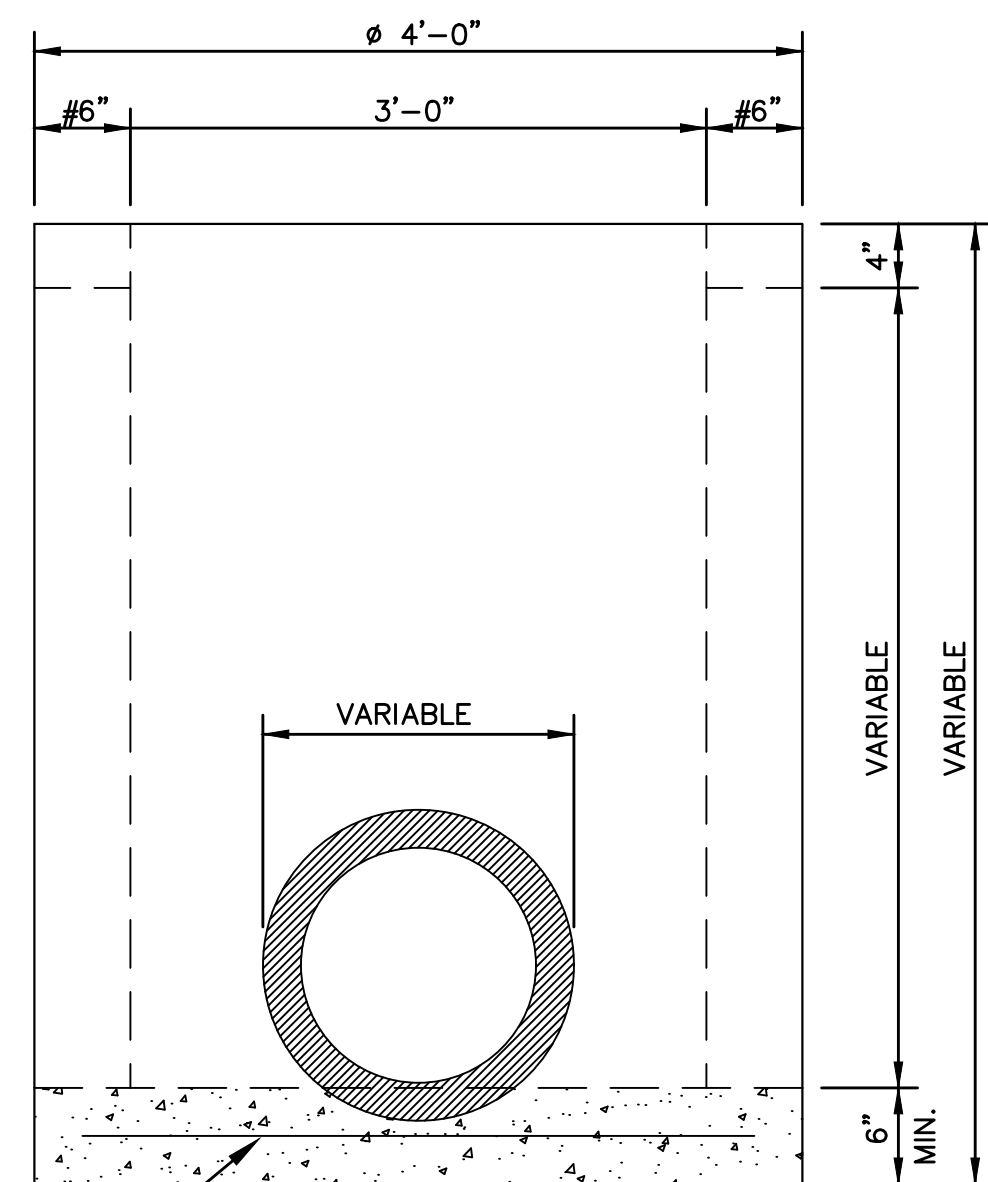
DETAIL
 SCALE: NONE

ANSID 22" x 34" Approved: KR Checked: CJP Drafter: CJP Designer: KR Project Management Initials: Project Eng.: DWI File name: C:\USERS\KOSTUCHENKOL\AECOM\60744999\ELIZABETH CITY 3MG RWR\60744999-DETAILS.DWG

NOTES:

- FOR CONSTRUCTION OF THE CATCH BASIN WALLS CLASS A CONCRETE MAY BE USED. FOR CONCRETE, THE WALLS ARE TO BE 6 IN. THICK WITH A REINFORCING STEEL AREA OF 0.20 SQ. IN. PER FT.
- THE BOTTOM SLAB OF THE BOX SHALL BE A MINIMUM OF 7 IN. THICK CLASS A CONCRETE WITH A REINFORCING STEEL AREA OF 0.20 SQ. IN. PER FT. WIRE MESH MAY BE USED IN LIEU OF STEEL BARS PROVIDED A MINIMUM OF 0.20 SQ. IN. PER FT. IS MET.
- FOR CONSTRUCTION OF THE CATCH BASIN LID, CLASS AA OR BETTER CONCRETE SHALL BE USED WITH REINFORCING STEEL AS SHOWN.
- MORTAR SHALL BE TYPE S OR M.
- IF DESIRED, THESE ITEMS MAY BE PRECAST PRIOR TO INSTALLATION IN LIEU OF BEING CAST IN PLACE. THE USE OF PRECAST UNITS WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF OBTAINING SATISFACTORY INSTALLATIONS. SEE STANDARD DRAWINGS FOR PRECAST STRUCTURES FOR ADDITIONAL DETAILS AND SPECIFICATIONS.
- REINFORCING STEEL SHALL BE DEFORMED AND SHALL CONFORM TO AASHTO M 31, GRADE 60. WIRE MESH SHALL CONFORM TO AASHTO M 55 AND M 221.
- IF STRUCTURE DEPTH EXCEEDS 4'-6", METAL STEPS ARE TO BE PLACED ON WALL. SEE STEP STANDARD DRAWING 719-16.
- THE NUMBER OF BOX OPENINGS SHALL BE CONSTRUCTED, AS DIRECTED BY THE ENGINEER, TO FIT FIELD CONDITIONS.
- SEE STANDARD DRAWINGS 719-7 FOR DETAIL OF MANHOLE COVER AND CASTING.
- THE CONTRACT UNIT PRICE FOR CATCH BASINS SHALL INCLUDE THE COST OF FURNISHING ALL MATERIALS AND WORK INCIDENTAL TO THE CONSTRUCTION OF THE STRUCTURE COMPLETE IN PLACE AS SHOWN IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- THE BID ITEM SHALL BE: CATCH BASIN TYPE 9 MH 1 EACH.

FOR PIPES OVER 24" I.D.
MAKE LENGTH & WIDTH
OF C.B. = O.D. OF PIPE
+ 6" EACH SIDE

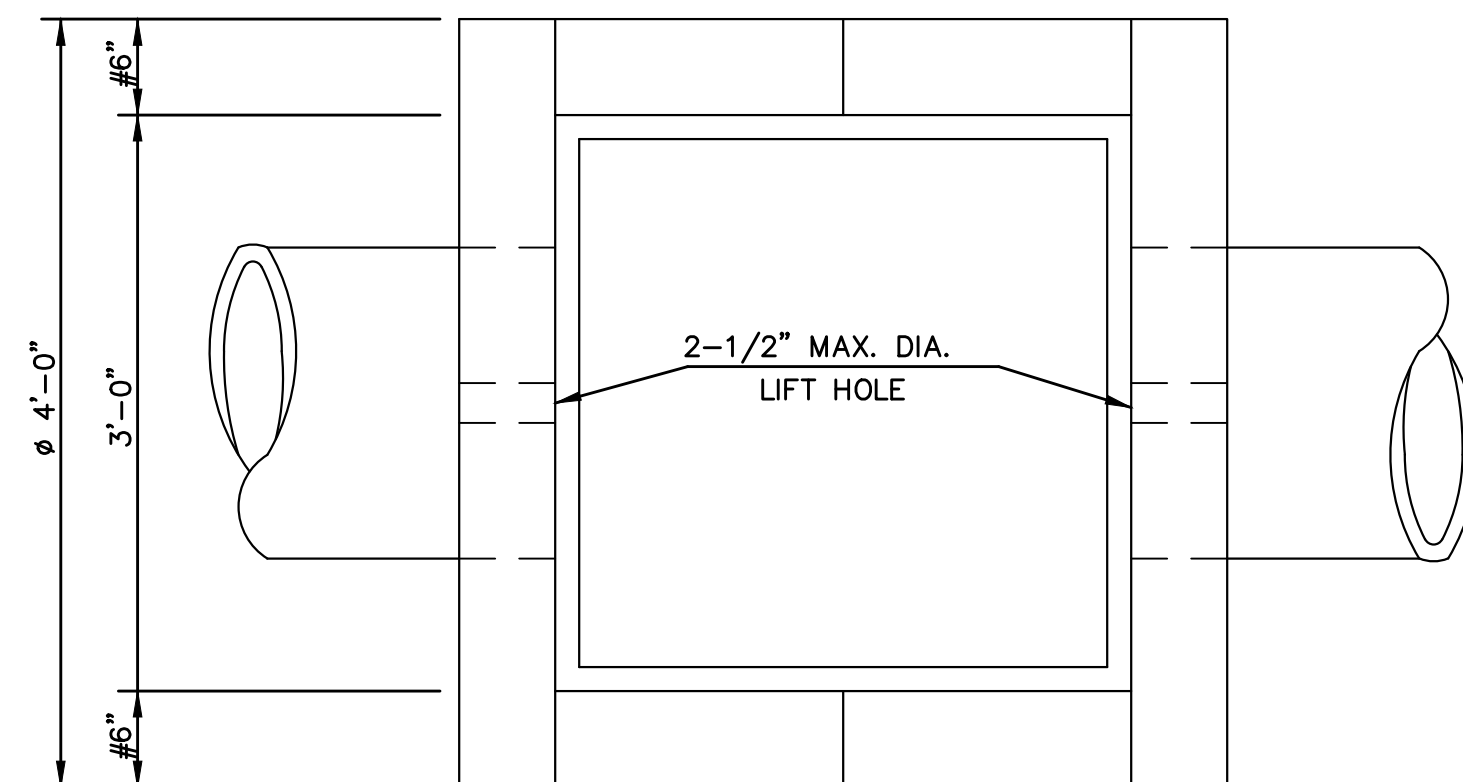


NO. 4 REBAR 12" O.C.
WITH 1-1/2" MIN. COVER
ALL DIRECTIONS.

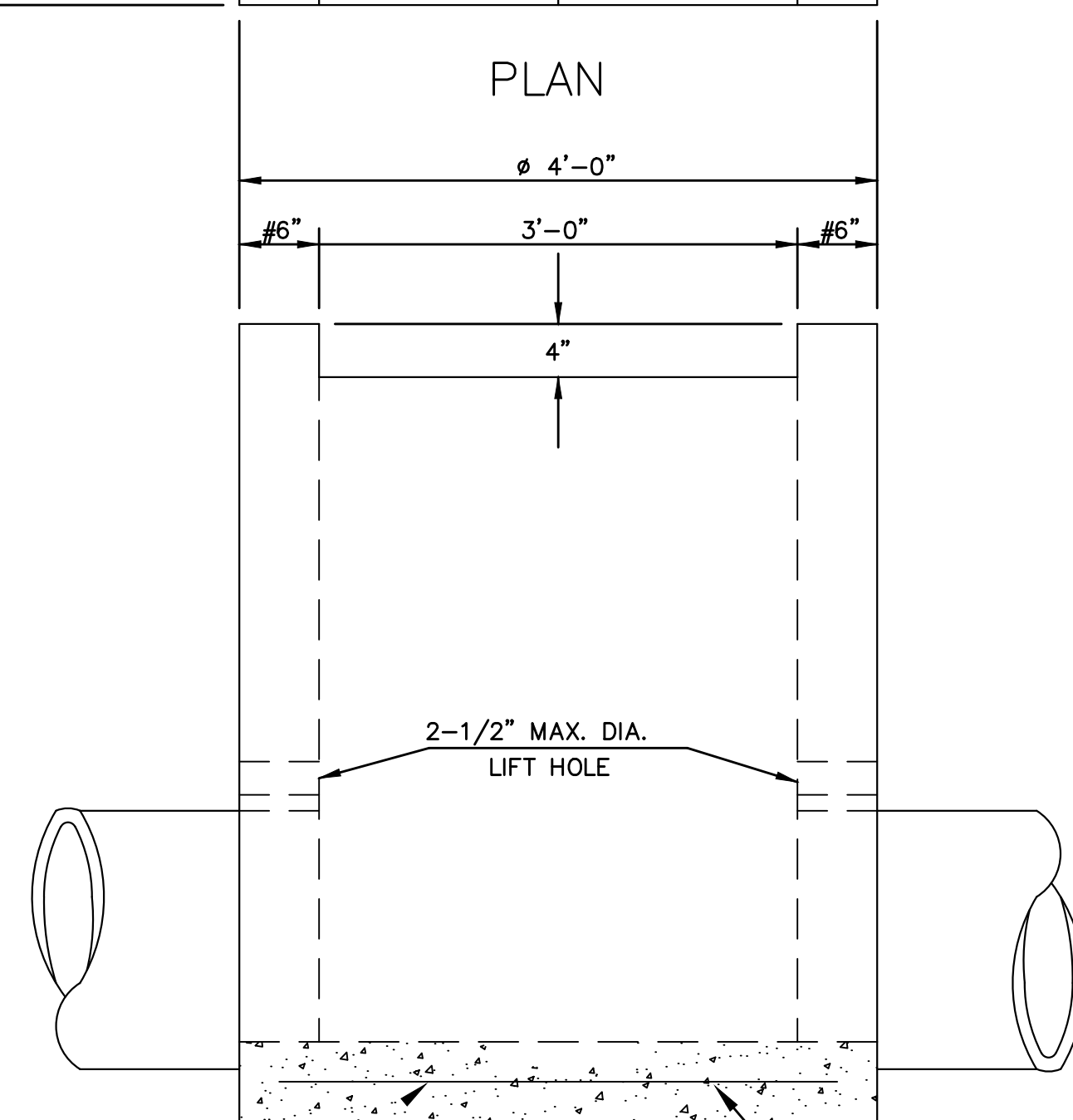
SIDE

6" FOR CONCRETE
8" FOR BRICK

φ 4'-0" FOR CONCRETE (MINIMUM)
4'-4" FOR BRICK (MINIMUM)

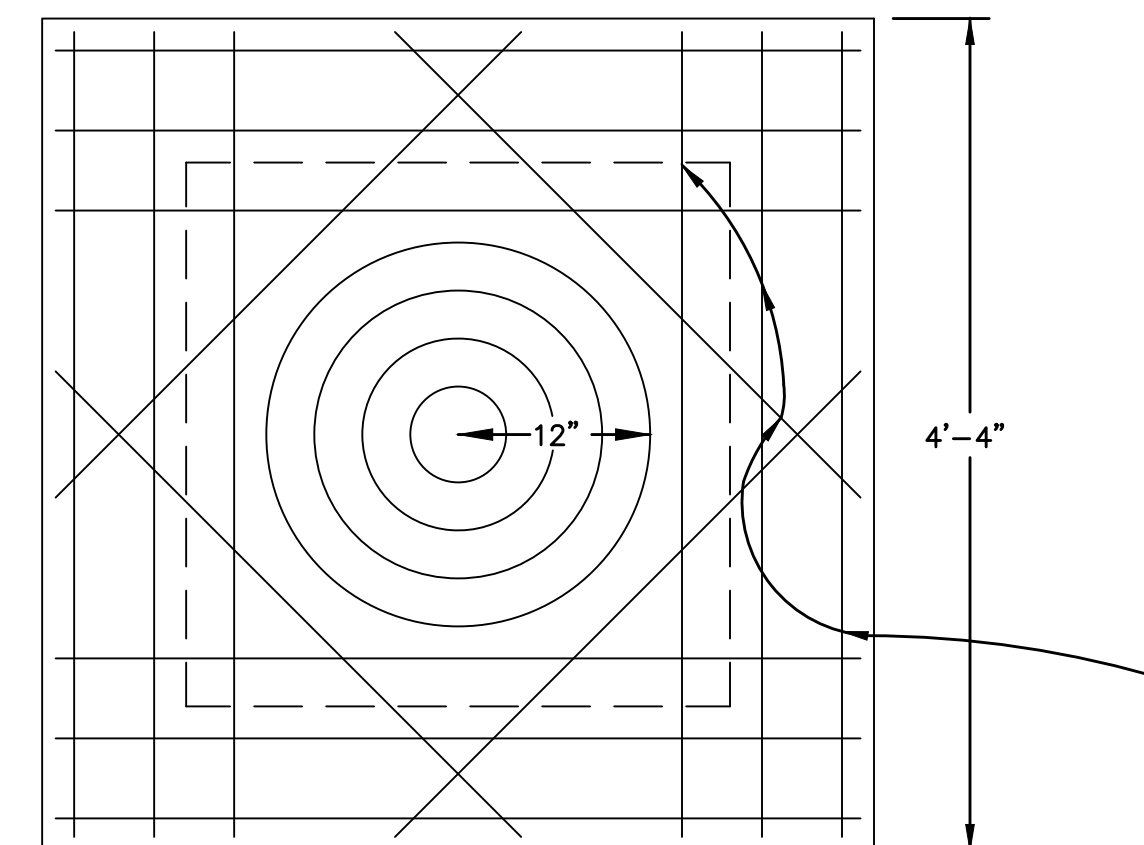


PLAN

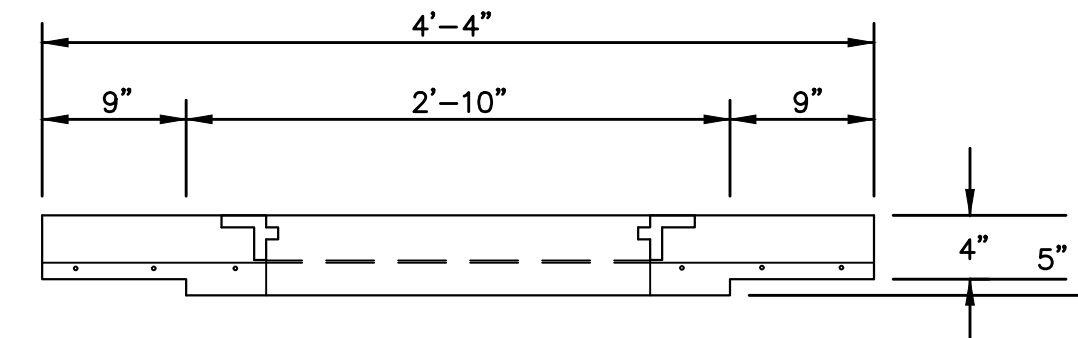


FRONT

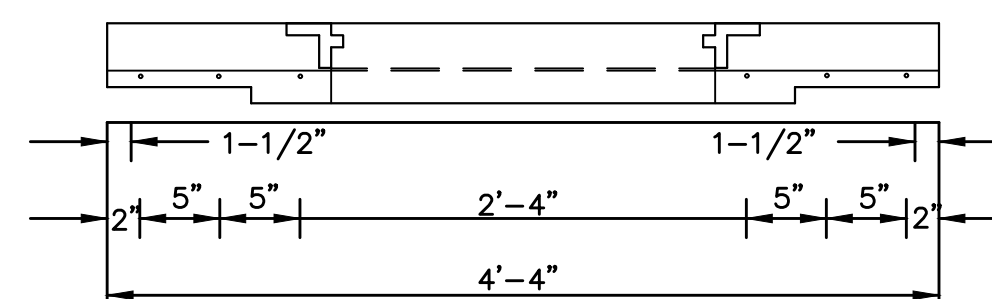
NO. 4 REBAR 12" O.C.
WITH 1-1/2" MIN. COVER
ALL DIRECTIONS.



PLAN



SIDE



FRONT

CATCH BASIN (TYPE 9)

DETAIL
SCALE: NONE

1
CD01.30

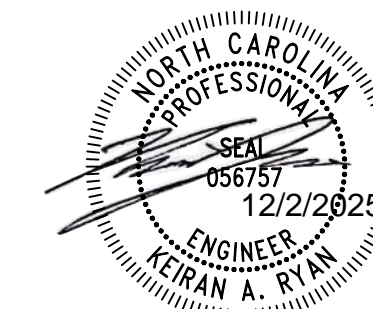


PROJECT
REPLACEMENT OF 3.0
MILLION GALLON RAW
WATER RESERVOIR
WATER TREATMENT PLANT
1 WILSON STREET
ELIZABETH CITY, NC 27909

CLIENT
CITY OF ELIZABETH CITY, NC
410 PRITCHARD STREET
ELIZABETH CITY, NC 27909
(252) 337-6628

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REGISTRATION



ISSUE/REVISION

I/R	DATE	DESCRIPTION
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KEY PLAN

SHEET SCALE: AS SHOWN

BID DOCUMENTS
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PROJECT & FILE NUMBER

PROJECT NO.: 60744999
DWI PROJECT NO.: SRP-D-134-0076

SHEET TITLE

MISCELLANEOUS
DETAILS III

SHEET NUMBER

CD01.30

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