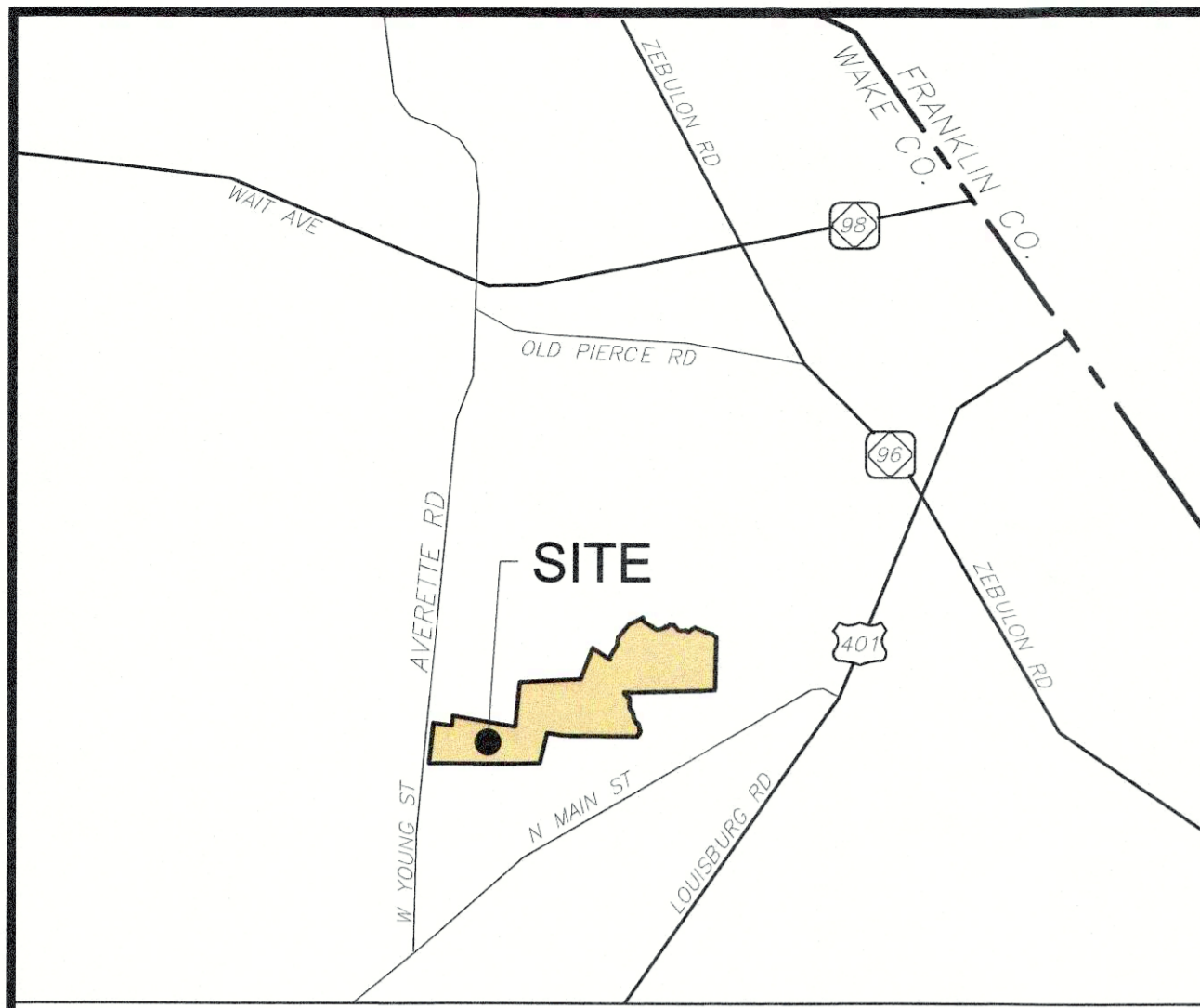


CONSTRUCTION DRAWINGS

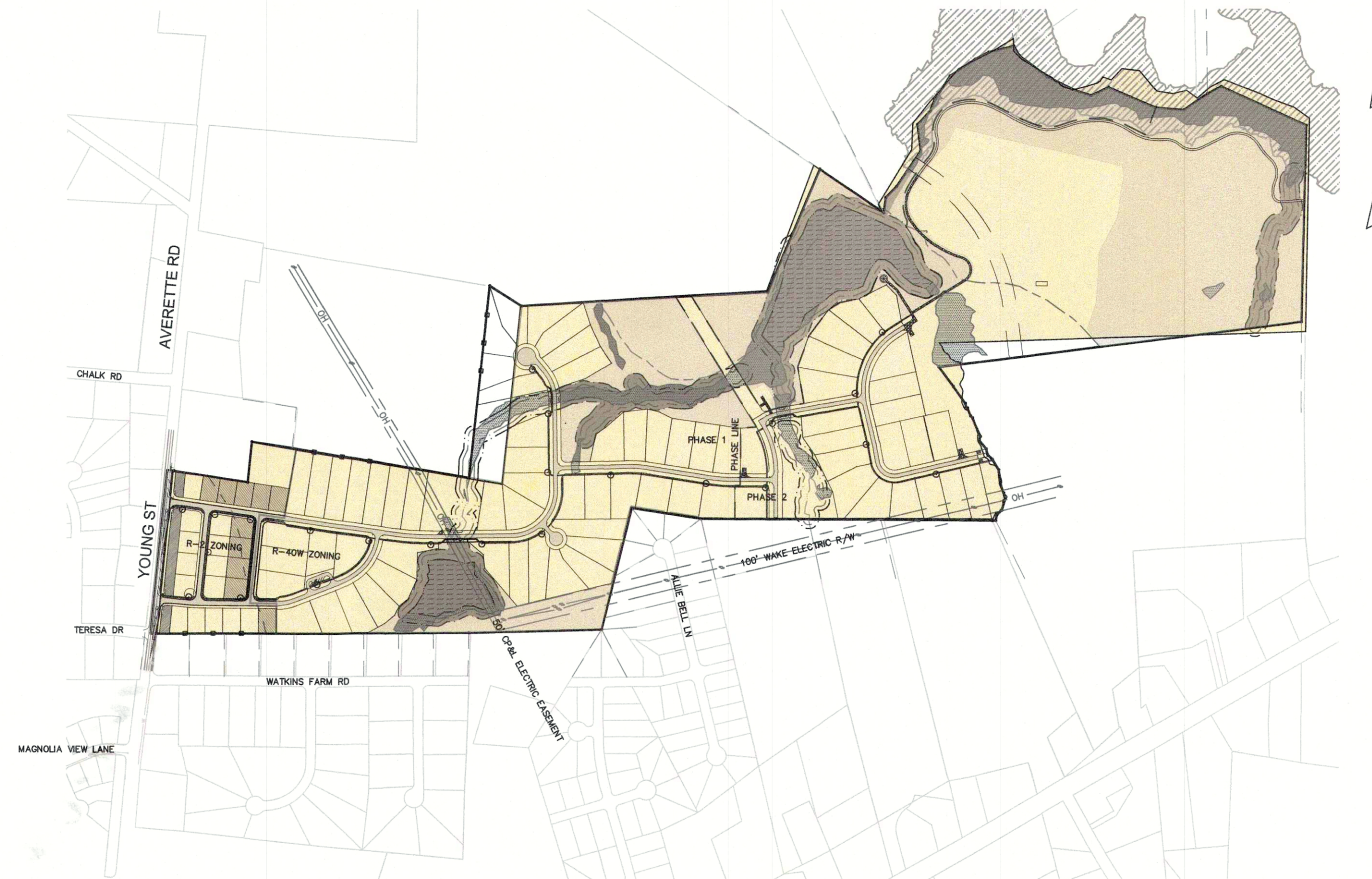
CHANDLER'S RIDGE CONSERVATION SUBDIVISION

TOWN OF ROLESVILLE
WAKE CO, NC
SEPTEMBER 8, 2020

1st SUBMITTAL JUNE 19, 2020
2nd SUBMITTAL AUGUST 14, 2020
3rd SUBMITTAL SEPTEMBER 8, 2020



VICINITY MAP
(NTS)



PROJECT PLAN

GRAPHIC SCALE
1 inch = 500 ft.

ATTENTION CONTRACTORS

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

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

Failure to call for Inspection, Install a Downstream Plug, have Permitted Plans on the Jobsite, or any other Violation of City of Raleigh Standards will result in a Fine and Possible Exclusion from future work in the City of Raleigh.

SITE PERMITTING APPROVAL

Water and Sewer Permits (if applicable)

The City of Raleigh consents to the connection and extension of the City's Public Sewer System as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # _____

The City of Raleigh consents to the connection and extension of the City's Public Water System as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # _____

The City of Raleigh consents to the connection to its public sewer system and extension of the private sewer collection system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh Public Utilities Department Permit # _____

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval _____
Raleigh Water Review Officer _____

DEVELOPER:

WRIGHT-WHITLEY DEVELOPMENT COMPANY, LLC
1225 N. WHITE ST.
WAKE FOREST, NC
(919) 349-5220

OWNER:

MELISSA CORBIN NONDORF, LINDA TRIPP-CORBIN
10822 S 600 W
WARREN, IN 46792

ENGINEER:

THOMAS S. SPEIGHT, JR., PE, PLS
BATEMAN CIVIL SURVEY COMPANY
2524 RELIANCE AVENUE
APEX, NC 27539

PARCEL DATA	
PIN	1769362748
ADDRESS	410 W. YOUNG STREET
GROSS TRACT AREA	171.53 AC. (NET: 174.43)
EXISTING USE	AGRICULTURE
EXISTING ZONING	R-2 / R-40W
PROPOSED USE	CONSERVATION SUBDIVISION
UNITS PROPOSED	96 SINGLE FAMILY
PHASE 1	24 R-2, 50 R-40W
PHASE 2	22 R40-W

UTILITY IMPROVEMENTS	
8" PVC PUBLIC SEWER	9,090 LF
8" DIP PUBLIC SEWER	929 LF
CLASS III RCP STORM	1,387 LF
8" DIP PUBLIC WATER	5,250 LF
12" DIP PUBLIC WATER	3,415 LF
4" C900 PVC PUBLIC FORCEMAIN	4,944 LF

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT

APPROVED

EROSION CONTROL S-
STORMWATER MGMT. S-
FLOOD STUDY S-
DATE _____

ENVIRONMENTAL CONSULTANT SIGNATURE



Bateman Civil Survey Company

Engineers • Surveyors • Planners

2524 Reliance Avenue, Apex, North Carolina 27539

Phone: 919.577.1080 Fax: 919.577.1081

NCBELS FIRM No. C-2378



APPROVED FOR COMPLIANCE

Case # C-20-02 Project: Chandler's Ridge
By: Amy Johnson Date: 9/9/2020

These plans have been approved for compliance with the Town Code of Ordinance, UDO, and Standard Specifications & Construction Details, subject to statements & conditions hereby incorporated by reference.










KNOW WHAT IS BELOW
CALL BEFORE YOU DIG

PROJECT NUMBER: 0170347

SHEET INDEX	
C000	COVER SHEET
C100	EXISTING CONDITIONS
C101	SOILS MAP
C200	OVERALL SITE & OPEN SPACE
C201	PHASE 1 SITE PLAN
C202	PHASE 1 SITE PLAN
C203	PHASE 1 MAP
C204	PHASE 1 / 2 SITE PLAN
C205	PHASE 2 SITE PLAN
C206	PHASE 2 SITE PLAN
C210	LIGHTING PLAN
C220	LANDSCAPING DETAILS
C400	OVERALL EROSION CONTROL PLAN PH 1 STAGE 1
C401	EROSION CONTROL PLAN PH 1 STAGE 1
C402	EROSION CONTROL PLAN PH 1 STAGE 1
C403	EROSION CONTROL PLAN PH 1 STAGE 1
C404	EROSION CONTROL PLAN PH 1 STAGE 1
C410	OVERALL EROSION CONTROL PLAN PH 1 STAGE 2
C411	EROSION CONTROL PLAN PH 1 STAGE 2
C412	EROSION CONTROL PLAN PH 1 STAGE 2
C413	EROSION CONTROL PLAN PH 1 STAGE 2
C414	EROSION CONTROL PLAN PH 1 STAGE 2
C420	OVERALL EROSION CONTROL PLAN PH 2 STAGE 1
C422	EROSION CONTROL PLAN PH 2 STAGE 1
C423	EROSION CONTROL PLAN PH 2 STAGE 1
C424	EROSION CONTROL PLAN PH 2 STAGE 1
C430	OVERALL EROSION CONTROL PLAN PH 2 STAGE 2
C432	EROSION CONTROL PLAN PH 2 STAGE 2
C433	EROSION CONTROL PLAN PH 2 STAGE 2
C444	EROSION CONTROL PLAN PH 2 STAGE 2
C500	OVERALL GRADING PLAN
C501	PHASE 1 GRADING PLAN
C502	PHASE 1 GRADING PLAN
C503	PHASE 1 GRADING PLAN
C504	PHASE 1 / 2 GRADING PLAN
C505	PHASE 2 GRADING PLAN
C506	PHASE 2 GRADING PLAN
C510	STORM PIPE/STRUCTURE TABLES
C520	DRY POND #1 PLAN & DETAILS
C521	DRY POND #2 PLAN & DETAILS
C522	DRY POND #3 PLAN & DETAILS
C590	GREENWAY PLAN & PROFILE
C591	GREENWAY PLAN & PROFILE
C600	OVERALL UTILITY PLAN
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C602	PHASE 1 UTILITY PLAN
C603	PHASE 1 UTILITY PLAN
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C605	PHASE 2 UTILITY PLAN
C606	PHASE 2 UTILITY PLAN
C607	PUMP STATION PLAN & DETAILS
C608	PUMP STATION DETAILS
C609	PUMP STATION DETAILS
C610	ODOR CONTROL DETAILS
C700	LILY OAK DR. P&P STA. 0+00 - 10+50
C701	LILY OAK DR. P&P STA. 10+50 - 21+00
C702	LILY OAK DR. P&P STA. 21+00 - 29+08
C703	LONGSPUR LN. P&P STA. 0+00 - 10+00
C704	LONGSPUR LN. P&P STA. 10+00 - 13+20
C705	TIMBERDASH TR. P&P STA. 0+00 - 4+97
C706	PINE SPUR LN. P&P STA. 0+00 - 4+59
C707	OAK ROSE LN. P&P STA. 0+00 - 1+10
C708	SPARROW RIDGE DR. P&P STA. 0+00 - 11+00
C709	MELLONBROOK WAY P&P STA. 0+00 - 7+08
C710	MAPLEHURST DR. P&P STA. 0+00 - 5+44
C711	SCENIC POND WAY P&P STA. 0+00 - 9+50
C712	SCENIC POND WAY P&P STA. 9+50 - 13+27
C713	LOT 58 / 59 SEWER STUB P&P
C714	LOT 61 / 62 SEWER STUB P&P
C715	LOT 48 / 49 SEWER STUB P&P
C716	LOT 80 / 81 SEWER STUB P&P
C717	LOT 84 / 85 SEWER STUB P&P
C718	PUMP STATION P&P
C719	FORCE MAIN W. YOUNG ST. P&P
C800	ROAD WIDENING PLAN W. YOUNG
C801	STRIPING PLAN W. YOUNG
C802	ROAD WIDENING CROSS SECTION
C900	SITE DETAILS
C901	NC DOT DETAILS
C902	NC DOT DETAILS
C903	PEDESTRIAN BOARDWALK BRIDGE DETAILS
C910	SEWER & FORCEMAIN DETAILS
C911	SEWER & FORCEMAIN DETAILS
C912	SEWER & FORCEMAIN DETAILS
C913	SEWER & FORCEMAIN DETAILS
C914	WATER DETAILS
C915	WATER DETAILS
C920	STORMWATER DETAILS
C921	STORMWATER DETAILS
C922	EROSION CONTROL DETAILS
C923	EROSION CONTROL DETAILS
C924	EROSION CONTROL DETAILS
C925	EROSION CONTROL DETAILS
C926	EROSION CONTROL DETAILS
C927	EROSION CONTROL DETAILS
C928	EROSION CONTROL DETAILS

LEGEND:

-  EXISTING POND
-  EXISTING WETLANDS
-  PROPOSED PHASING LINE
-  EXISTING TOWN OF ROLESVILLE ETJ
-  EXISTING STREAM
-  50' STREAM AND POND RIPARIAN BUFFER
-  420
418 EXISTING MAJOR / MINOR CONTOUR



LINE	BEARING	DIST
L1	S81°13'04"E	34.80
L2	S81°12'56"E	173.97
L3	S81°12'49"E	210.95
L4	S80°12'39"E	174.94
L5	N07°49'06"E	80.26
L6	N44°41'40"E	78.77
L7	N34°07'44"E	223.37
L8	N07°17'09"W	135.94
L9	N43°25'56"E	93.24
L10	N22°09'47"E	65.45
L11	N32°21'39"E	143.40
L12	N56°30'21"E	156.81
L13	N61°58'55"E	77.86
L14	N76°21'53"E	135.03
L15	S29°48'13"E	58.53
L16	S52°51'27"E	178.27
L17	S63°45'31"E	164.54
L18	S72°26'53"E	83.22
L19	N64°46'54"E	97.09
L20	S66°47'32"E	266.88
L21	S85°28'59"E	143.23
L22	N55°32'08"E	148.84
L23	N62°34'27"E	79.00
L24	S36°29'19"E	126.12
L25	S35°23'49"E	106.85
L26	S07°59'11"E	18.28
L27	S59°12'50"E	9.62
L28	S21°13'06"E	44.58
L29	S47°34'32"E	13.67
L30	S20°28'22"E	39.79
L31	S24°41'28"E	64.65
L32	S15°44'48"W	20.71
L33	S38°52'21"E	57.30
L34	S11°42'28"E	28.87
L35	S45°40'36"E	35.21
L36	S31°30'25"E	62.67
L37	S05°44'30"E	71.50
L38	S21°01'37"E	52.07
L39	S14°11'37"E	33.36
L40	S16°41'36"W	59.55
L41	S49°18'04"W	33.85
L42	S11°19'37"W	32.19
L43	S89°52'40"W	30.04

EXISTING TRACT DATA:
 TRACT DEVELOPER:
 THOMAS RICHARD WRIGHT, JR.
 1225 N. WHITE ST.
 WAKE FOREST, NC 27588
 CONTACT NO: (919) 349-5220
 NC PIN: 1769-36-2748
 DEED REFERENCE: DB 2559, PG 470 MAP #1769 01
 REAL ESTATE ID: 0014930
 ZONING: R-2 & R-40W
 TOTAL TRACT AREA: 171.53 AC.
 EXISTING USE: VACANT / UNDEVELOPED WOODS / CULTIVATED

- NOTES**
- EXISTING BOUNDARY AND WETLANDS SURVEYED BY BATEMAN CIVIL SURVEY OF APEX, NC.
 - TOPOGRAPHY IS A COMPOSITE OF FIELD SURVEY AND WAKE COUNTY GIS DATA.

P:\2017 Projects\170347 Chandlers Ridge\Eng\CADD\DWG\TP_SHEET_P_170347_C100_EXST.dwg

REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
02	CONSTRUCTION DOCUMENTS 2ND SUBMITTAL	08/14/2020
01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020
REV	DESCRIPTION	DATE
	REVISIONS	



Bateman Civil Survey Company
 Engineers • Surveyors • Planners
 2524 Reliance Avenue, Apex, North Carolina 27539
 Phone: 919.577.1080 Fax: 919.577.1081
 NCBELS FIRM No. C-2378



CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION

EXISTING CONDITIONS

Project Engineer: TSS
 Designed By: TEP
 Drawn By: TEP
 Checked By: TSS
 Scale: 1" = 200'
 Date: 09/08/2020
 Project Number: P170347

SHEET
C100



NORTH Referenced to N.C. GRID (NAD 83)



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CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION

SOILS MAP

Project Engineer: TSS
 Designed By: TEP
 Drawn By: TEP
 Checked By: TSS
 Scale: 1" = 200'
 Date: 09/08/2020
 Project Number: P170347

SHEET
C101



NORTH
 Referenced to N.C. GRID (NAD 83)

LINE	BEARING	DIST
L1	S81°13'04"E	34.80
L2	S81°12'56"E	173.97
L3	S81°12'49"E	210.95
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 TOTAL TRACT AREA: 171.53 ± AC.
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NOTES
 1. EXISTING BOUNDARY AND WETLANDS SURVEYED BY BATEMAN CIVIL SURVEY OF APEX, NC.
 2. TOPOGRAPHY IS WAKE COUNTY GIS FOR THE PRELIMINARY PLANS.

- VaC2 Vance sandy loam, 6 to 10 percent slopes, eroded
- VaB2 Vance sandy loam, 2 to 6 percent slopes, eroded
- LoC Louisburg loamy sand, 6 to 10 percent slopes
- ApC Appling sandy loam, 6 to 10 percent slopes
- LoB Louisburg loamy sand, 2 to 6 percent slopes
- ApB2 Appling sandy loam, 2 to 6 percent slopes, eroded
- WkC Wake soil, 2 to 10 percent slopes
- ApC2 Appling sandy loam, 6 to 10 percent slopes, eroded
- DuC Durham loamy sand, 6 to 10 percent slopes
- Flood-Prone Soils Wy, Au, Cu, Wo
- VaB Vance sandy loam, 2 to 6 percent slopes
- DuB Durham loamy sand, 2 to 6 percent slopes
- ApB Appling sandy loam, 2 to 6 percent slopes

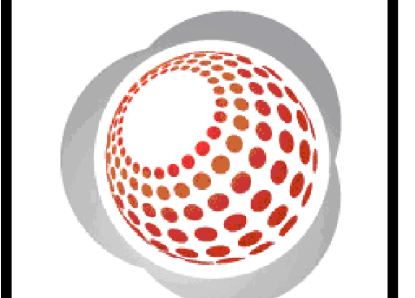
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REV	DESCRIPTION	DATE
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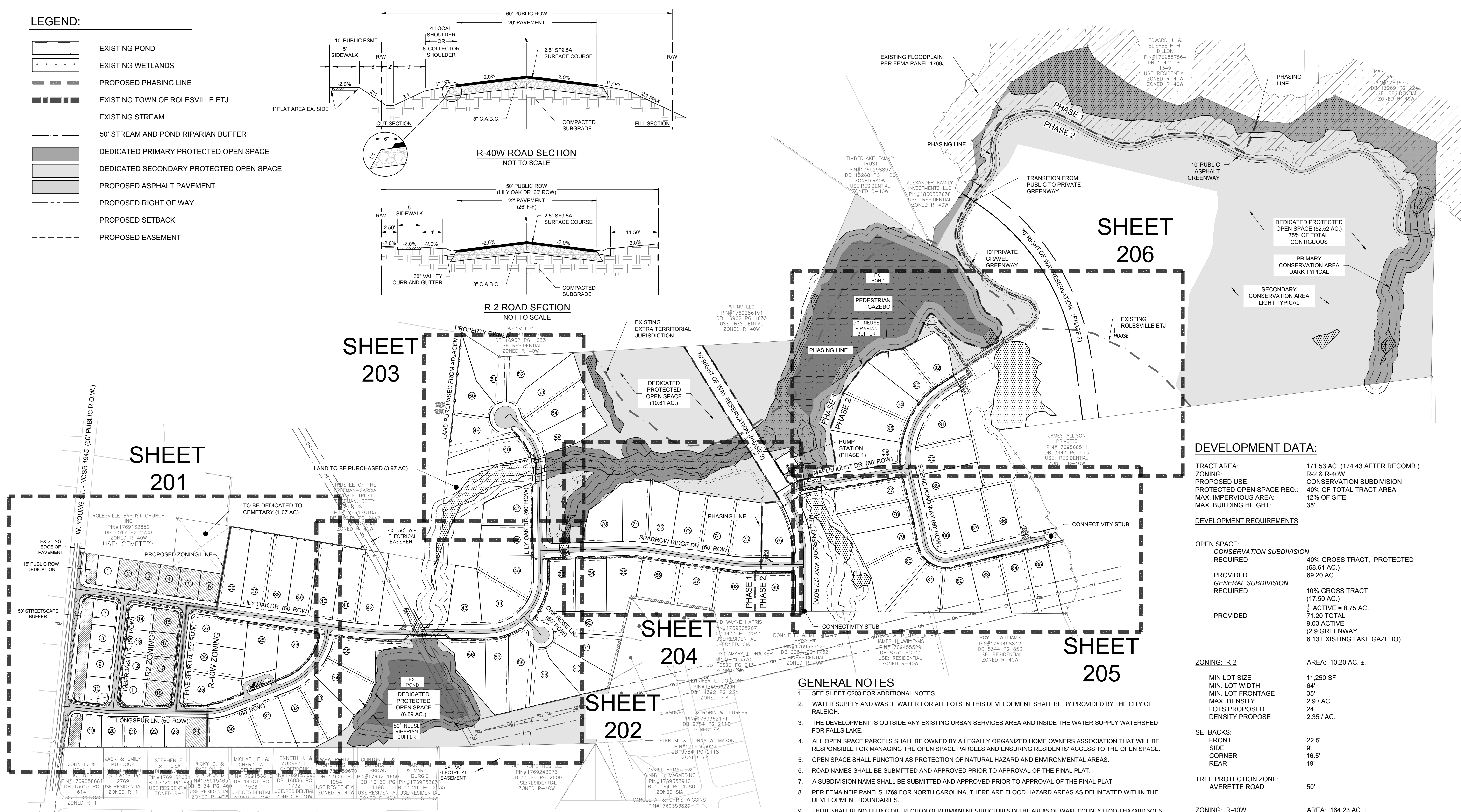
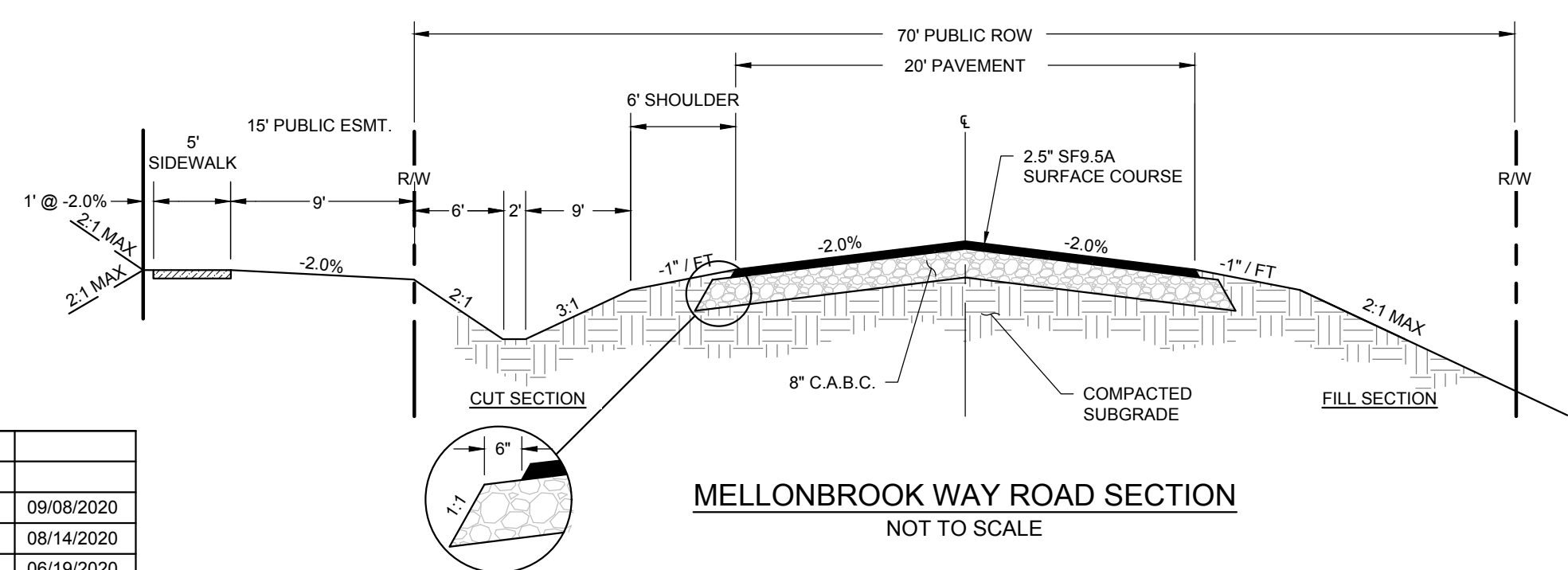
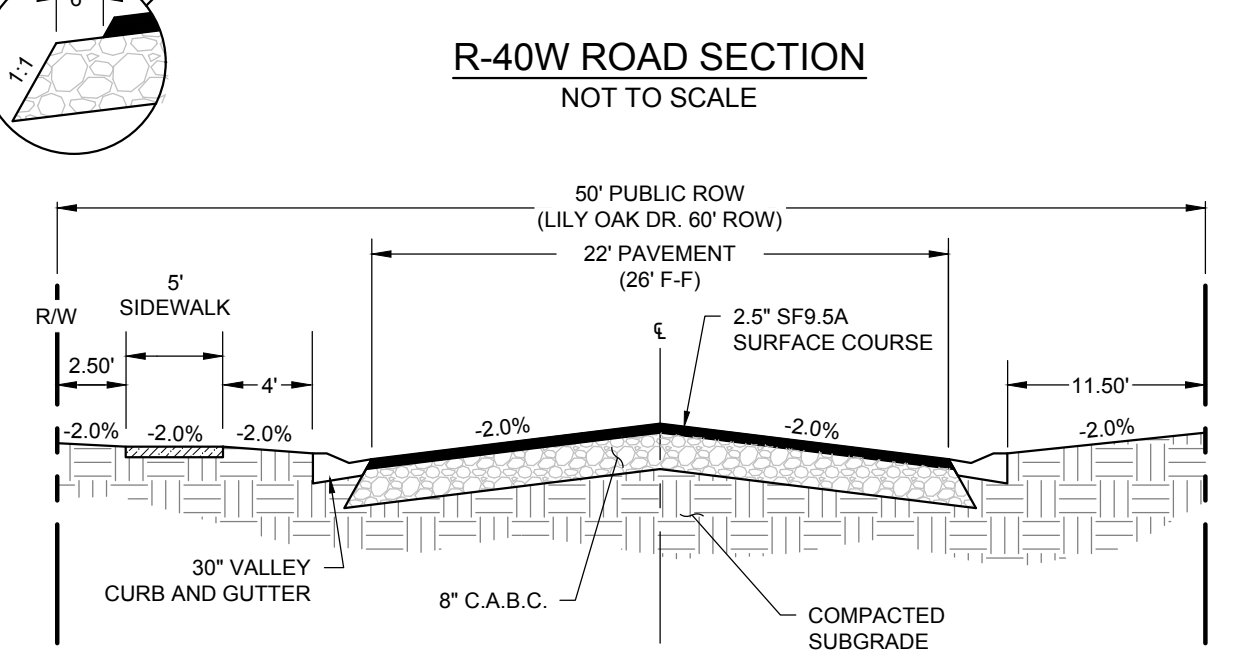
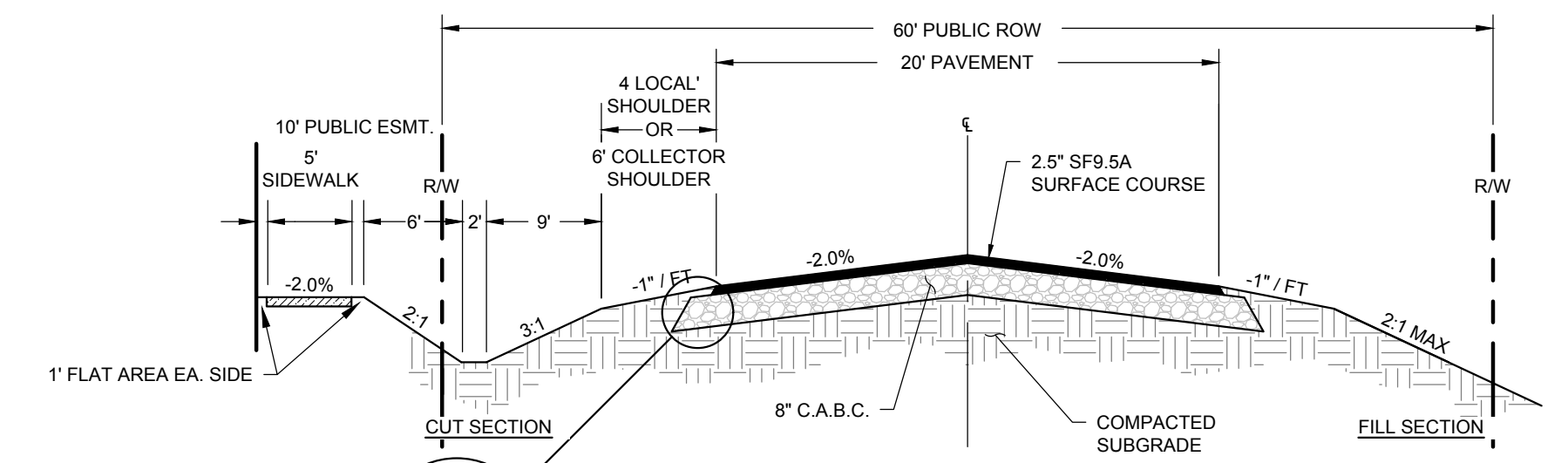
**CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION**

**OVERALL SITE
 & OPEN SPACE PLAN**

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 200'
Date:	09/08/2020
Project Number:	P170347
SHEET	
C200	

LEGEND:

- EXISTING POND
- EXISTING WETLANDS
- PROPOSED PHASING LINE
- EXISTING TOWN OF ROLESVILLE ETJ
- EXISTING STREAM
- 50' STREAM AND POND RIPARIAN BUFFER
- DEDICATED PRIMARY PROTECTED OPEN SPACE
- DEDICATED SECONDARY PROTECTED OPEN SPACE
- PROPOSED ASPHALT PAVEMENT
- PROPOSED RIGHT OF WAY
- PROPOSED SETBACK
- PROPOSED EASEMENT



DEVELOPMENT DATA:

TRACT AREA:	171.53 AC. (174.43 AFTER RECOMB.)
ZONING:	R-2 & R-40W
PROPOSED USE:	CONSERVATION SUBDIVISION
PROTECTED OPEN SPACE REQ.:	40% OF TOTAL TRACT AREA
MAX. IMPERVIOUS AREA:	12% OF SITE
MAX. BUILDING HEIGHT:	35'

DEVELOPMENT REQUIREMENTS

OPEN SPACE:	CONSERVATION SUBDIVISION
REQUIRED:	40% GROSS TRACT, PROTECTED (68.61 AC.)
PROVIDED:	69.20 AC.
GENERAL SUBDIVISION	REQUIRED:
REQUIRED:	10% GROSS TRACT (17.50 AC.)
PROVIDED:	17.20 AC.
ACTIVE:	8.75 AC.
TOTAL:	71.20 AC.
GREENWAY:	6.13 EXISTING LAKE GAZEBO

ZONING: R-2 AREA: 10.20 AC. ±

MIN LOT SIZE:	11,250 SF
MIN. LOT WIDTH:	64'
MIN. LOT FRONTAGE:	35'
MAX. DENSITY:	2.9 / AC
LOTS PROPOSED:	24
DENSITY PROPOSED:	2.35 / AC.

SETBACKS:

FRONT:	22.5'
SIDE:	9'
CORNER:	16.5'
REAR:	19'

TREE PROTECTION ZONE: AVERETTE ROAD 50'

ZONING: R-40W AREA: 164.23 AC. ±

MIN LOT SIZE:	30,000 SF
MIN. LOT WIDTH:	83'
MIN. LOT FRONTAGE:	35'
MAX. DENSITY:	1 / AC
LOTS PROPOSED:	72
DENSITY PROPOSED:	0.44 / AC.

SETBACKS:

FRONT:	38'
SIDE:	15'
CORNER:	15'
REAR:	23'

PHASING SUMMARY

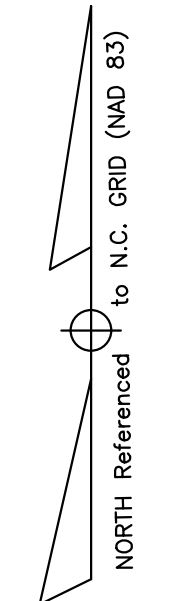
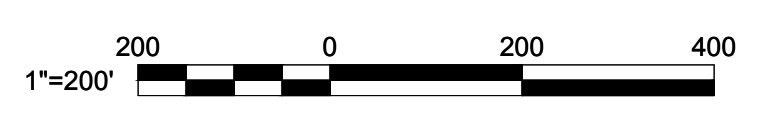
PHASE 1 AREA:	91.40 ACRES
PHASE 1 OPEN SPACE:	36.70 ACRES (40.15%)
PHASE 2 AREA:	80.13 ACRES
PHASE 2 OPEN SPACE:	32.50 ACRES (40.56%)

- GENERAL NOTES**
- SEE SHEET C203 FOR ADDITIONAL NOTES.
 - WATER SUPPLY AND WASTE WATER FOR ALL LOTS IN THIS DEVELOPMENT SHALL BE PROVIDED BY THE CITY OF RALEIGH.
 - THE DEVELOPMENT IS OUTSIDE ANY EXISTING URBAN SERVICES AREA AND INSIDE THE WATER SUPPLY WATERSHED FOR FALLS LAKE.
 - ALL OPEN SPACE PARCELS SHALL BE OWNED BY A LEGALLY ORGANIZED HOME OWNERS ASSOCIATION THAT WILL BE RESPONSIBLE FOR MANAGING THE OPEN SPACE PARCELS AND ENSURING RESIDENTS' ACCESS TO THE OPEN SPACE.
 - OPEN SPACE SHALL FUNCTION AS PROTECTION OF NATURAL HAZARD AND ENVIRONMENTAL AREAS.
 - ROAD NAMES SHALL BE SUBMITTED AND APPROVED PRIOR TO APPROVAL OF THE FINAL PLAT.
 - A SUBDIVISION NAME SHALL BE SUBMITTED AND APPROVED PRIOR TO APPROVAL OF THE FINAL PLAT.
 - PER FEMA NFIP PANELS 1769 FOR NORTH CAROLINA, THERE ARE FLOOD HAZARD AREAS AS DELINEATED WITHIN THE DEVELOPMENT BOUNDARIES.
 - THERE SHALL BE NO FILLING OR ERECTION OF PERMANENT STRUCTURES IN THE AREAS OF WAKE COUNTY FLOOD HAZARD SOILS OR FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) 100 YEAR FLOOD ZONES UNTIL A FLOOD STUDY IS APPROVED BY WAKE COUNTY AND/OR FEMA.
 - LOTS 2 THROUGH 6, 15 THROUGH 18, AND 24 WILL NOT BE PLATTED UNTIL THE AREA CONTAINED FOR THE PROPOSED LOTS HAVE BEEN REGRADED TO DRAIN AWAY FROM THE LITTLE RIVER BASIN WATERSHED WITH NC STATE AGENCY DETERMINED THESE PROPOSED ARE NOT LOCATED IN THE WS-II DRINKING WATER SUPPLY WATERSHED AREA DUE TO REGRAIDING OF THE LOTS AND UDO MAP AMENDMENT GRANTED BY THE TOWN TO BE REZONED FROM R40W TO R-2 ZONING DISTRICT AFTER STATE AGENCY DETERMINATION

OVERALL IMPERVIOUS AREA SUMMARY

EXISTING	0
ASPHALT ROADWAY	209,712 SF / 4.81 AC.
MAIL KIOSK	150 SF / 0.003 AC.
RESIDENTIAL LOTS	R-2 ZONED = 4,600 SF R-40W ZONED = 6,500 SF
CONCRETE SIDEWALK AND CURB GUTTER	53,278 S.F. / 1.22 AC.
PUMP STATION & DRIVEWAY	6,847 S.F. / 0.16 AC.
GREENWAY	37,758 S.F. / 0.86 AC.
GRAVEL TURN-AROUNDS	5,779 S.F. / 0.13 AC.
TOTAL IMPERVIOUS AREA PROVIDED (AC)	891,924 SF / 20.48 AC.
IMPERVIOUS AREA RATIO	11.74%

(NOTE: RESIDENTIAL LOT IMPERVIOUS ALLOCATION DOES NOT INCLUDE SIDEWALK. SIDEWALK IS ALREADY ACCOUNTED FOR)



P:\2017\Projects\170347 Chandlers Ridge\Eng\CAD\DWG\TP SHEET C200 SITE.dwg

REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
02	CONSTRUCTION DOCUMENTS 2ND SUBMITTAL	08/14/2020
01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020
REV	DESCRIPTION	DATE
	REVISIONS	

- LEGEND:**
- EXISTING POND
 - EXISTING WETLANDS
 - PROPOSED PHASING LINE
 - EXISTING TOWN OF ROLESVILLE ETJ
 - EXISTING STREAM
 - 50' STREAM AND POND RIPARIAN BUFFER
 - DEDICATED PRIMARY PROTECTED OPEN SPACE
 - DEDICATED SECONDARY PROTECTED OPEN SPACE
 - PROPOSED ASPHALT PAVEMENT
 - PROPOSED RIGHT OF WAY
 - PROPOSED SETBACK
 - PROPOSED EASEMENT
 - PROPOSED APPROXIMATE LIGHTING



Bateman Civil Survey Company
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CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION

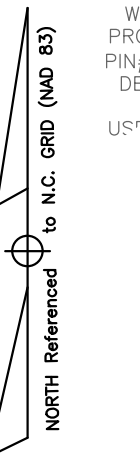
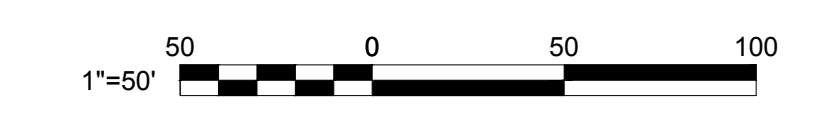
PHASE 1
 SITE PLAN

Project Engineer: TSS
 Designed By: TEP
 Drawn By: TEP
 Checked By: TSS
 Scale: 1" = 50'
 Date: 09/08/2020
 Project Number: P170347

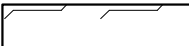
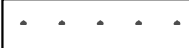



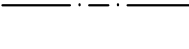


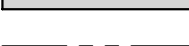




SHEET
C201

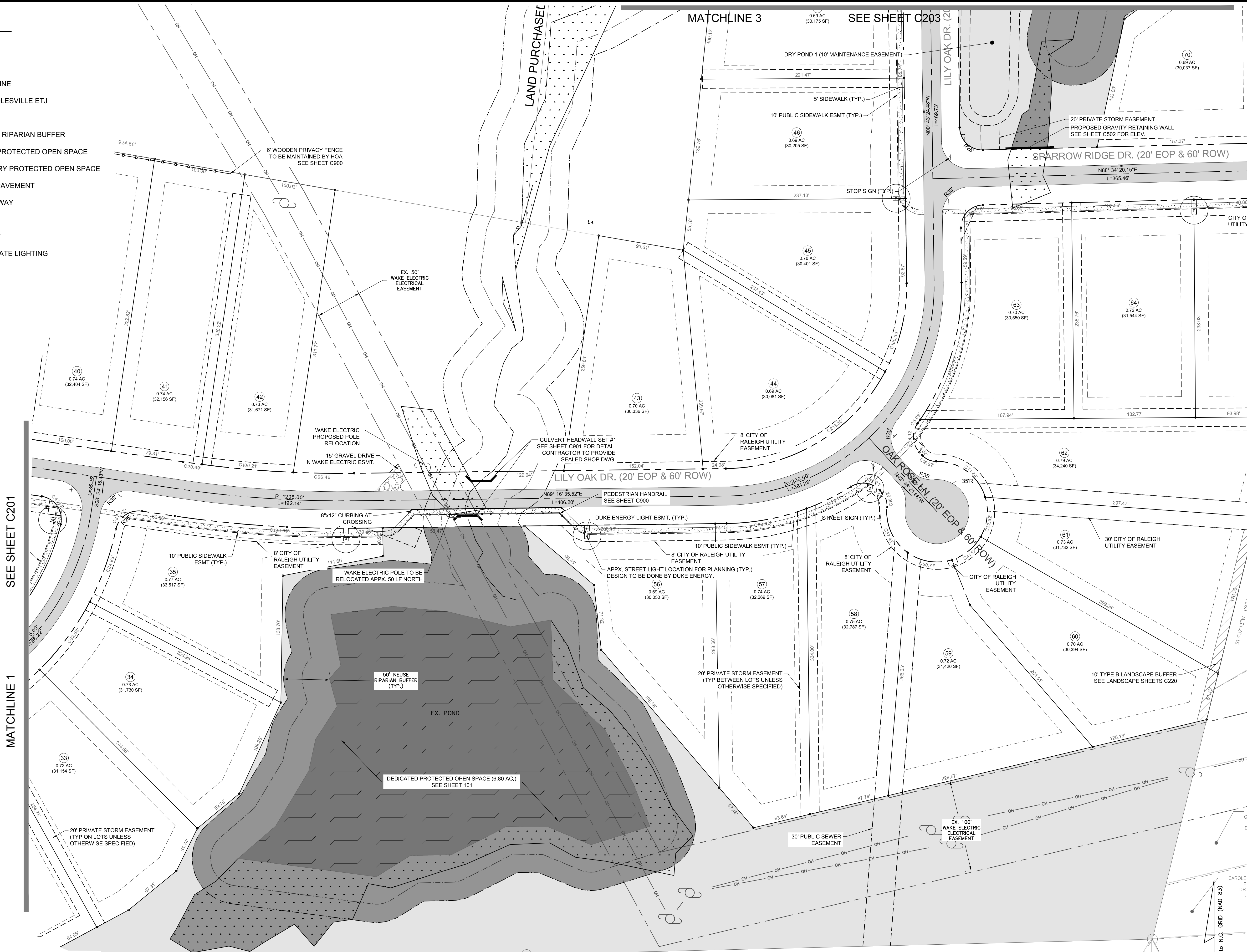
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SEE SHEET C201

MATCHLINE 1

MATCHLINE 3

SEE SHEET C203

SEE SHEET C204

MATCHLINE 2

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	DESCRIPTION	DATE
	REVISIONS	

V&W RENTAL
 PERTIES INC
 789159670
 4
 NTAL
 DW

CLINTON L. &
 SONDRRA F.
 BROWN
 PIN# 1769251650
 DB 10162 PG
 1199
 USE: RESIDENTIAL
 ZONED R-40W

MARTIN M.
 & MARY L.
 BURKE
 PIN# 1769253630
 DB 11316 PG 2235
 1199
 USE: RESIDENTIAL
 ZONED R-40W

RAT PROPERTIES LLC
 PIN# 1769243278
 DB 14688 PG 2600
 USE: RESIDENTIAL
 ZONED R-40W



NORTH
 Referenced
 to N.C. GRID
 (NAD 83)



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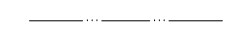
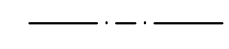
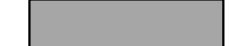
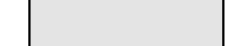

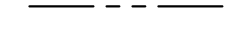





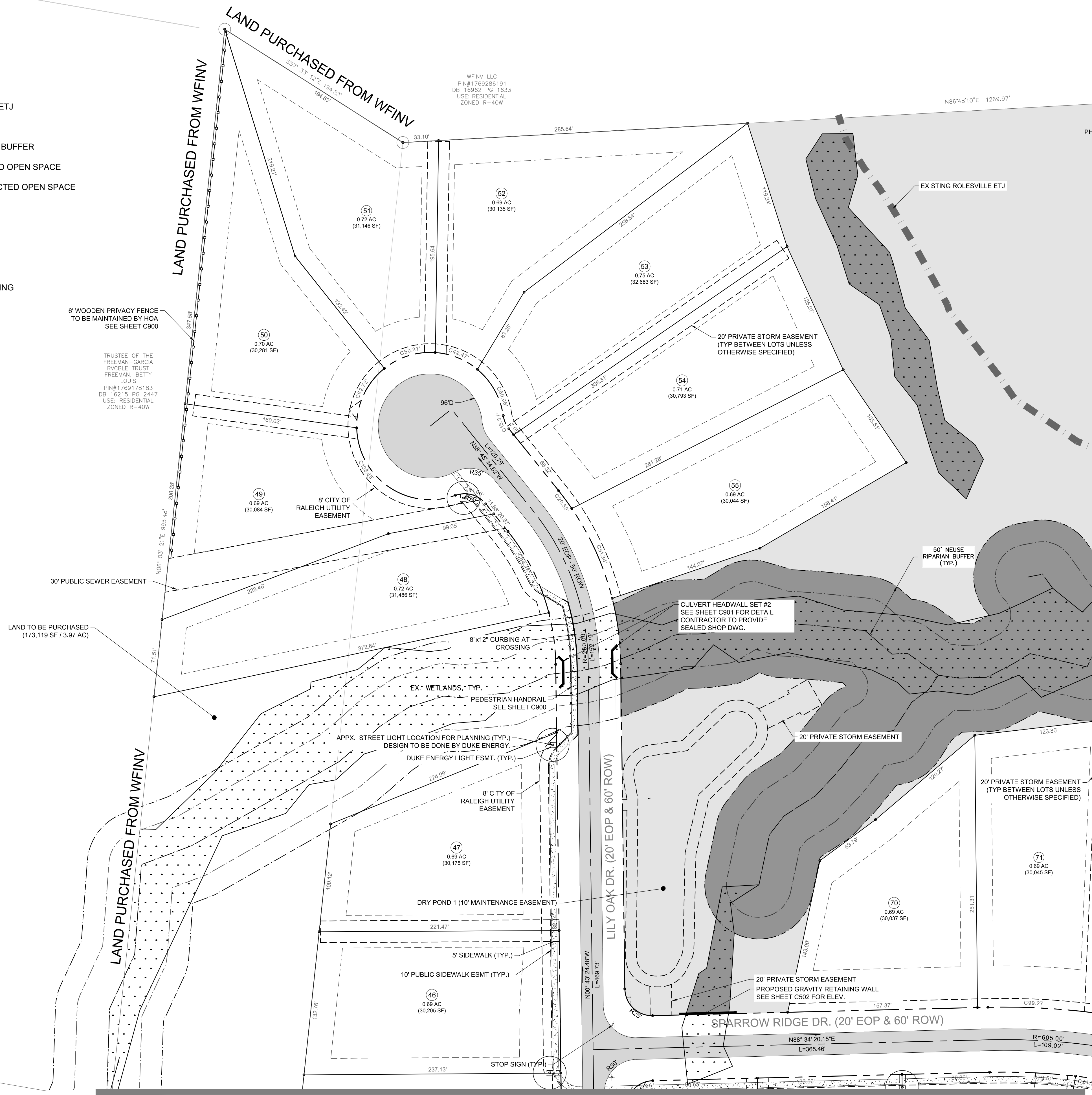
CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION

PHASE 1
SITE PLAN

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 50'
Date:	09/08/2020
Project Number:	P170347
SHEET	
C202	

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SITE NOTES:

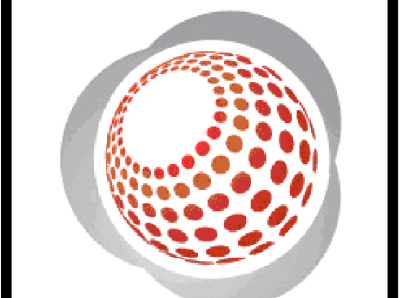
1. THE CONTRACTOR SHALL REFERENCE THE DESIGN PLANS FOR DIMENSIONS, JOINT LOCATIONS, AND INLAY SPECIFICATIONS NEAR BUILDINGS AND IN COURTYARDS. CONTRACTOR SHALL PROVIDE JOINTS IN WALKWAYS AND HARDSCAPE PER DETAILS OR AS INDICATED ON LANDSCAPE/HARDSCAPE PLAN SHEETS.
2. ALL CONSTRUCTION TRAFFIC SHALL ENTER SITE FROM WEST YOUNG ST. UNLESS OTHERWISE APPROVED IN WRITING FROM THE OWNER'S REPRESENTATIVE FOR AN ALTERNATE POINT OF ACCESS.
3. REFER TO ARCHITECTURAL PLANS FOR BUILDING INFORMATION.
4. ALL DIMENSIONS ARE IN DECIMAL FEET TO OUTSIDE FACE OF BUILDINGS, TO CENTERLINES, AND/OR FACE OF CURB UNLESS OTHERWISE NOTED.
5. THIS SITE IS PARTIALLY LOCATED IN THE LITTLE RIVER WATERSHED AND STREET DESIGNS MUST MEET NCDOT AND TOWN OF ROLESVILLE SPECIFICATION AND STANDARDS.
6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND COORDINATES AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO ANY CONSTRUCTION.
7. ALL WRITTEN DIMENSIONS SHALL PREVAIL. DO NOT SCALE FROM DRAWINGS.
8. ALL UTILITIES WITH SURFACE ACCESS SHALL BE LOCATED WITHIN THE PAVING PATTERN AND SHALL BE COORDINATED WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. REFER TO LAYOUT DRAWINGS.
9. ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE NOTED.
10. ALIGN ALL JOINTS, CORNERS, AND EDGES AS SHOWN
11. CONTRACTOR SHALL REFER TO AND COORDINATE WITH ARCHITECTURAL, STRUCTURAL, AND MEP DRAWINGS AT ALL TIMES PRIOR TO AND DURING CONSTRUCTION.
12. ALL CURB TAPERS ARE SIX (6) FEET LONG UNLESS OTHERWISE SHOWN ON PLAN.
13. WHERE NEW SIDEWALK ADJOINS EXISTING WALK, PROVIDE EXPANSION JOINT BY DRILLING INTO THE FACE OF THE EXISTING WALK FOR PLACEMENT OF DOWELS. THE NEW SIDEWALKS INTO NEAREST EXISTING PAVEMENT JOINT. MATCH WIDTH OF EXISTING WALKWAY.
14. WHERE SIDEWALK OR WALKWAYS ARE ADJACENT TO PARKING SPACES THE WALKWAY SHALL BE A MINIMUM 6.5' WIDE AS MEASURED FROM THE FACE OF CURB.
15. MAXIMUM RUNNING SLOPE FOR WALKING SURFACES CANNOT BE GREATER THAN 1:20 AND CROSS SLOPES CANNOT BE GREATER THAN 1:48. HANDICAP SPACES SURFACE SLOPES SHALL NOT EXCEED 1:48 IN ALL DIRECTIONS.
16. SIGHT TRIANGLES - NOTHING OVER 30" HIGH SHALL BE ALLOWED WITHIN THE SIGHT DISTANCE TRIANGLES.
17. THE SITE SHALL BE FULLY STABILIZED (90% COVERAGE) PRIOR TO ISSUANCE OF A BUILDING CERTIFICATE OF OCCUPANCY OR PROJECT APPROVAL.
18. HANDICAP RAMPS SHALL BE INSTALLED PER LATEST EDITION OF THE NC BUILDING CODE AND ANSI 117.11 WITH DETECTABLE WARNING DOMES WITH A COLOR CONTRAST OF 70% MINIMUM. SEE DETAILS AND GRADING SPOT ELEVATIONS. IF THE EXISTING CONDITIONS PRECLUDE THE ABILITY TO PROVIDE A MAXIMUM SLOPE 1:12 FOR 6 FEET OR A MAXIMUM CROSS SLOPE OF 1:48 AND A 36" MINIMUM LANDING, THE CONTRACTOR SHALL NOTIFY ENGINEER OR OWNER REPRESENTATIVE PRIOR TO INSTALLATION.
19. THE TESTING AGENCY SHALL BE RESPONSIBLE FOR PROVIDING THE ASPHALT AND CONTRACTOR CERTIFICATION MEMO TO NCDOT FOR ALL ROADWAY IMPROVEMENTS WITHIN THE PUBLIC RIGHT-OF-WAY.
20. THE MAINTENANCE OF ALL REQUIRED LANDSCAPING BY KEEPING LAWNS MOWED, ALL PLANTS MAINTAINED AS DISEASE FREE, AND ALL PLANTING BEDS GROOMED AND KEPT WEED FREE (EXCEPT IN AREAS OF PRESERVED EXISTING NATURAL VEGETATION (I.E. THICKETS), AND KEPT FREE FROM TRASH, DEBRIS AND OTHER OBJECTIONABLE MATERIALS, THE REPLACEMENT OF ANY REQUIRED PLANTING, WHICH IS REMOVED OR DIES AFTER THE DATE OF PLANTING, SUCH REPLACEMENT SHALL OCCUR DURING THE NEXT PLANTING SEASON; AND, THE REPLACEMENT OF ANY TREE IN A TREE SAVE AREA, WHICH IS REMOVED OR DIES AFTER THE DATE OF APPROVAL OF A PRESERVATION LANDSCAPE PLAN, SUCH REPLACEMENT SHALL OCCUR DURING THE NEXT PLANTING.

GENERAL NOTES:

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE OFFICE OF STATE CONSTRUCTION, DEPARTMENT OF INSURANCE, NCDENR, AND ALL OTHER APPLICABLE LOCAL, STATE AND FEDERAL GUIDELINES. ALL UTILITY CONSTRUCTION SHALL COMPLY WITH APPLICABLE LOCAL JURISDICTIONAL STANDARDS AND SPECIFICATIONS.
2. EXISTING SURVEY INFORMATION INCLUDING TOPOGRAPHIC INFORMATION PROVIDED BY BATEMAN CIVIL SURVEY, UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF ANY WORK. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES OR CONFLICTS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING, COORDINATING AND PAYMENT FOR ALL NECESSARY LOCATING SERVICES INCLUDING INDEPENDENT LOCATING SERVICES. THE CONTRACTOR SHALL PROVIDE NOTICE OF EXCAVATION TO NOTIFICATION CENTER AND FACILITY OWNERS (PER NC STATUTE) NO LESS THAN 3 BUSINESS DAYS AND NO MORE THAN 12 WORKING DAYS PRIOR TO BEGINNING DEMOLITION, EXCAVATION OR ANY OTHER FORM OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES OR CONFLICTS. NO EXCAVATION OR DEMOLITION SHALL BE STARTED WITHOUT ALL UTILITIES BEING LOCATED.
4. ALL SUB-SURFACE UTILITIES IDENTIFIED ON THE CONSTRUCTION DOCUMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATION BASED ON SURVEY INFORMATION GATHERED FROM FIELD INSPECTION AND/OR ANY OTHER APPLICABLE RECORD DRAWINGS WHICH MAY BE AVAILABLE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES OR CONFLICTS.
5. EXISTING IMPROVEMENTS DAMAGED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED OR REPLACED TO ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COORDINATING PERMITS, INSPECTIONS, CERTIFICATIONS AND OTHER REQUIREMENTS WHICH MUST BE MET UNDER THIS CONTRACT.
7. THE CONTRACTOR SHALL MAINTAIN "AS-BUILT" DRAWINGS TO RECORD THE ACTUAL LOCATION OF ALL PIPING PRIOR TO CONCEALMENT, VALVE AND MANHOLE CHANGES, AND HARDSCAPE OR LANDSCAPE CHANGES. DRAWINGS SHALL BE PROVIDED TO THE OWNER'S REPRESENTATIVE AT REGULAR INTERVALS, OR AS REQUESTED THROUGHOUT THE PROJECT FOR RECORD KEEPING.
8. IF DEPARTURES FROM THE PROJECT DRAWINGS OR SPECIFICATIONS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THERE OF SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW. NO DEPARTURES FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE OWNER'S REPRESENTATIVE.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION OF ANY EXISTING UTILITY LINES REQUIRED TO COMPLETE ANY PORTION OF CONSTRUCTION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE COORDINATION AND COSTS OF THE RELOCATION AND ASSOCIATED WORK.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE PREMISES FREE FROM ACCUMULATIONS OF WASTE MATERIALS AND RUBBISH CAUSED BY THE CONTRACTOR. ALL DEBRIS SHALL BE REMOVED FROM THE PROJECT SITE ON A DAILY BASIS.
11. THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND/OR METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
12. ROADWAYS (TEMPORARY OR PERMANENT) MUST BE CAPABLE OF SUPPORTING FIRE FIGHTING APPARATUS (65,000 LBS) DURING ALL PHASES OF CONSTRUCTION ONCE VERTICAL CONSTRUCTION HAS BEGUN.



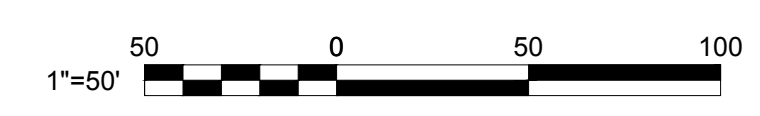
Bateman Civil Survey Company
 Engineers • Surveyors • Planners
 2824 Reliance Avenue, Apex, North Carolina 27539
 Phone: 919.577.1080 Fax: 919.577.1081
 NCBELS FIRM No. C-2378



CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION

PHASE 1
 SITE PLAN

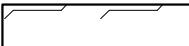
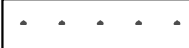



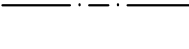


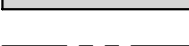




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Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 50'
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Project Number:	P170347
SHEET	
C203	

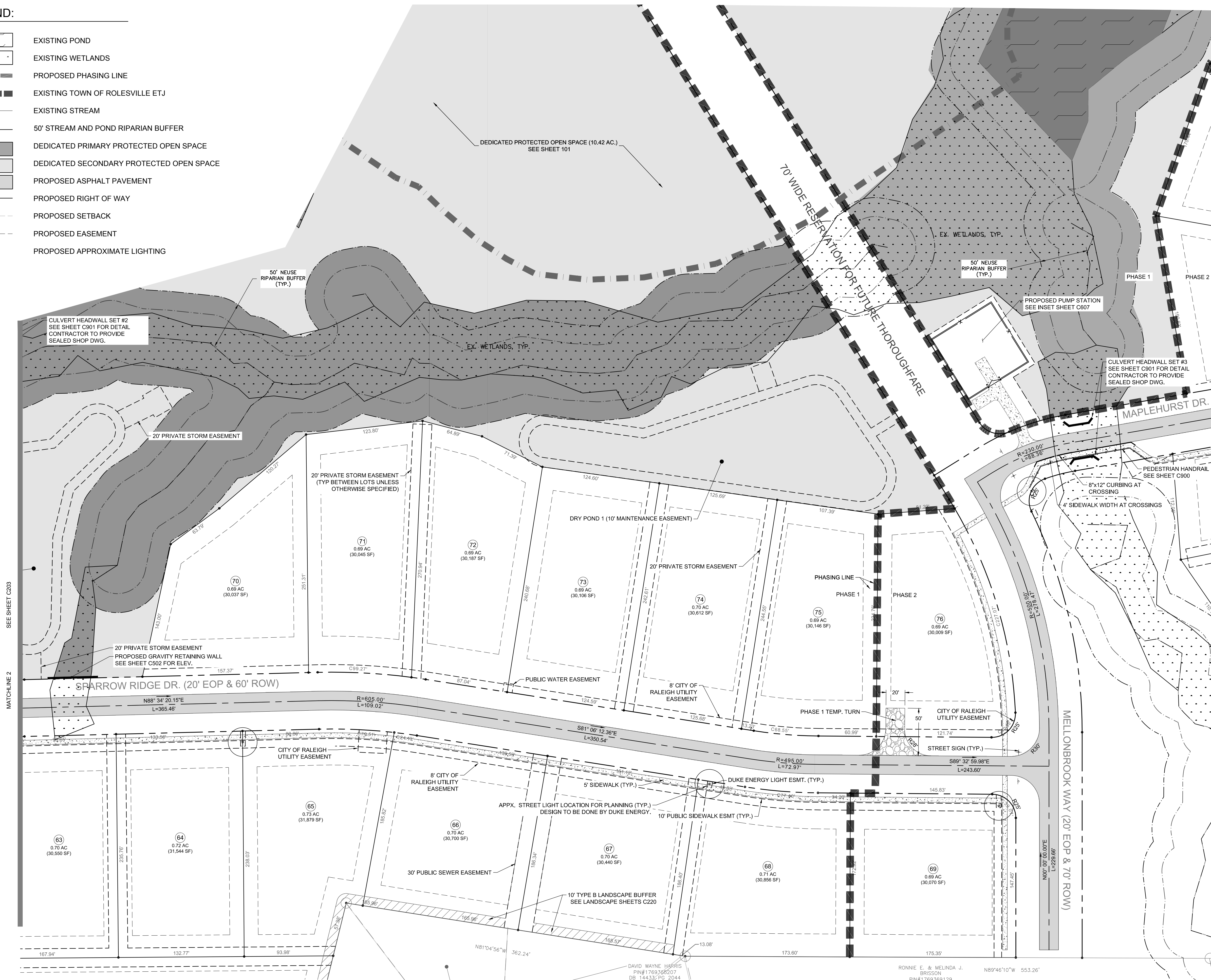


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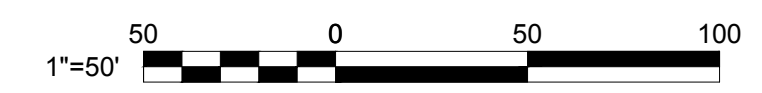
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NORTH Reference to N.C. GRID (NAD 83)



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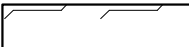




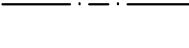


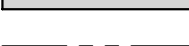






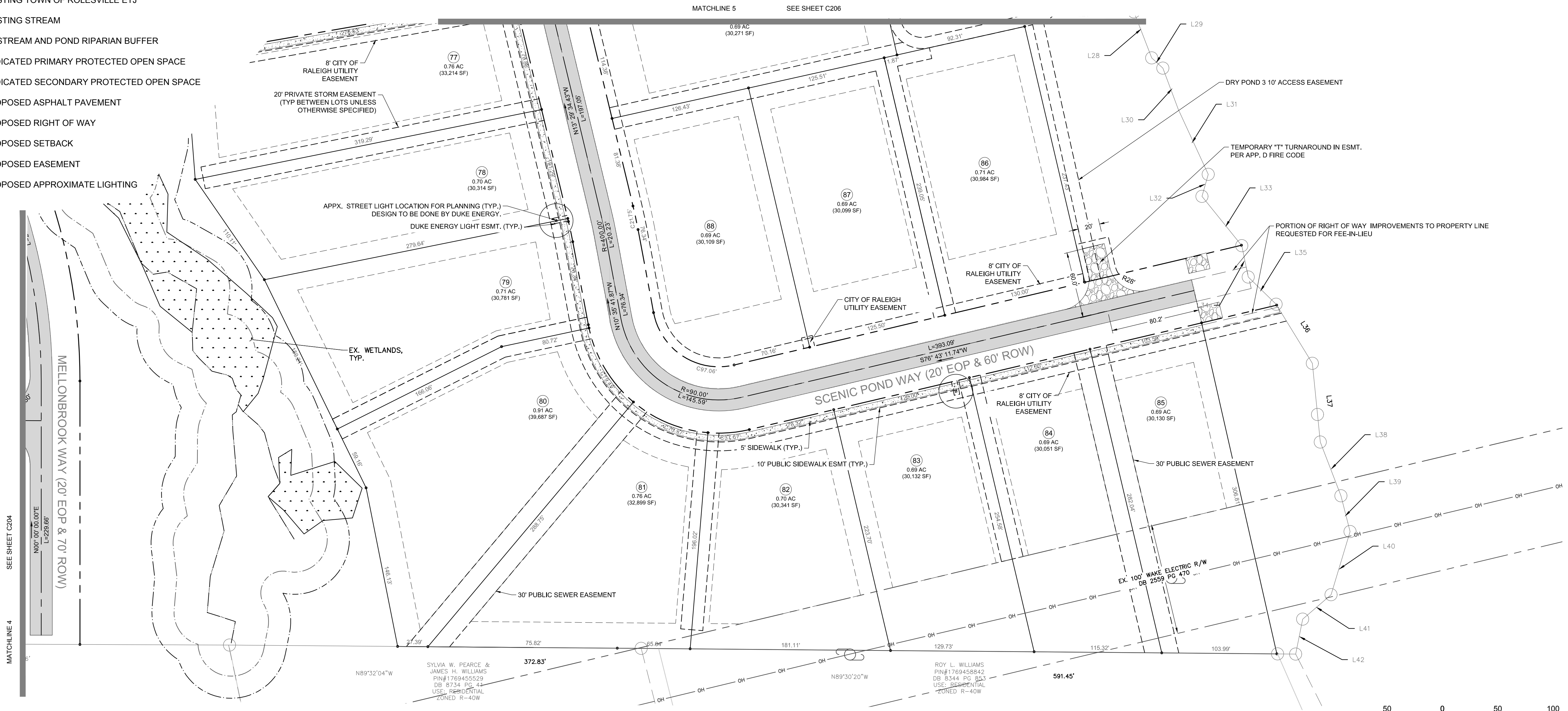
CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION

PHASE 1 / 2
 SITE PLAN

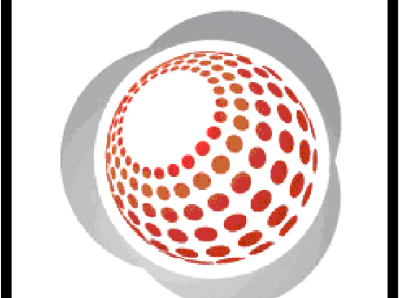
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 410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY

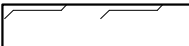
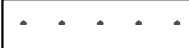



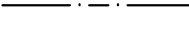


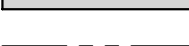




PHASE 2
SITE PLAN

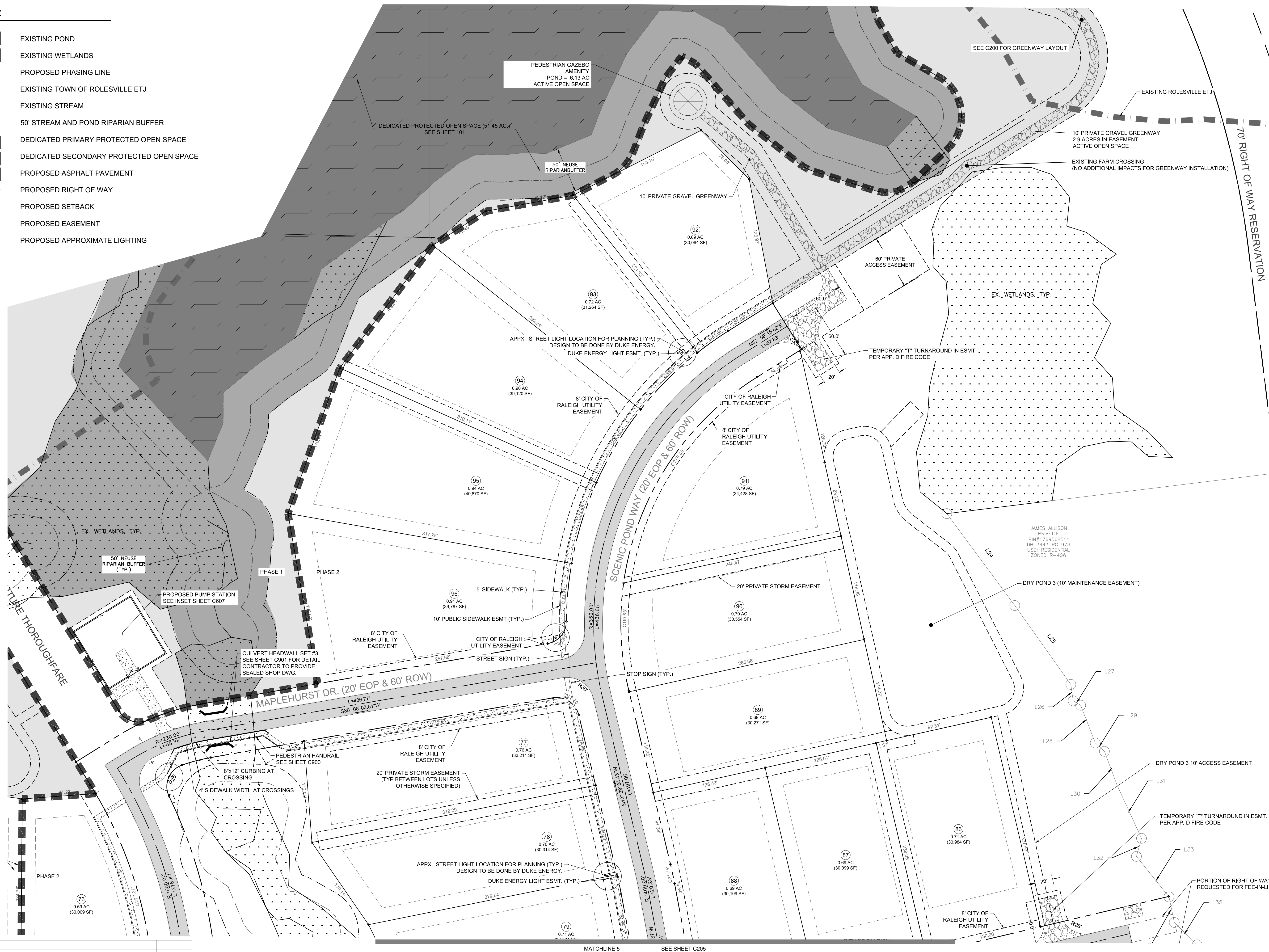
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PHASE 2
 SITE PLAN

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 50'
Date:	09/08/2020
Project Number:	P170347

SHEET
C206

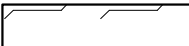
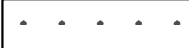



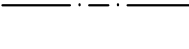


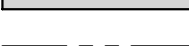




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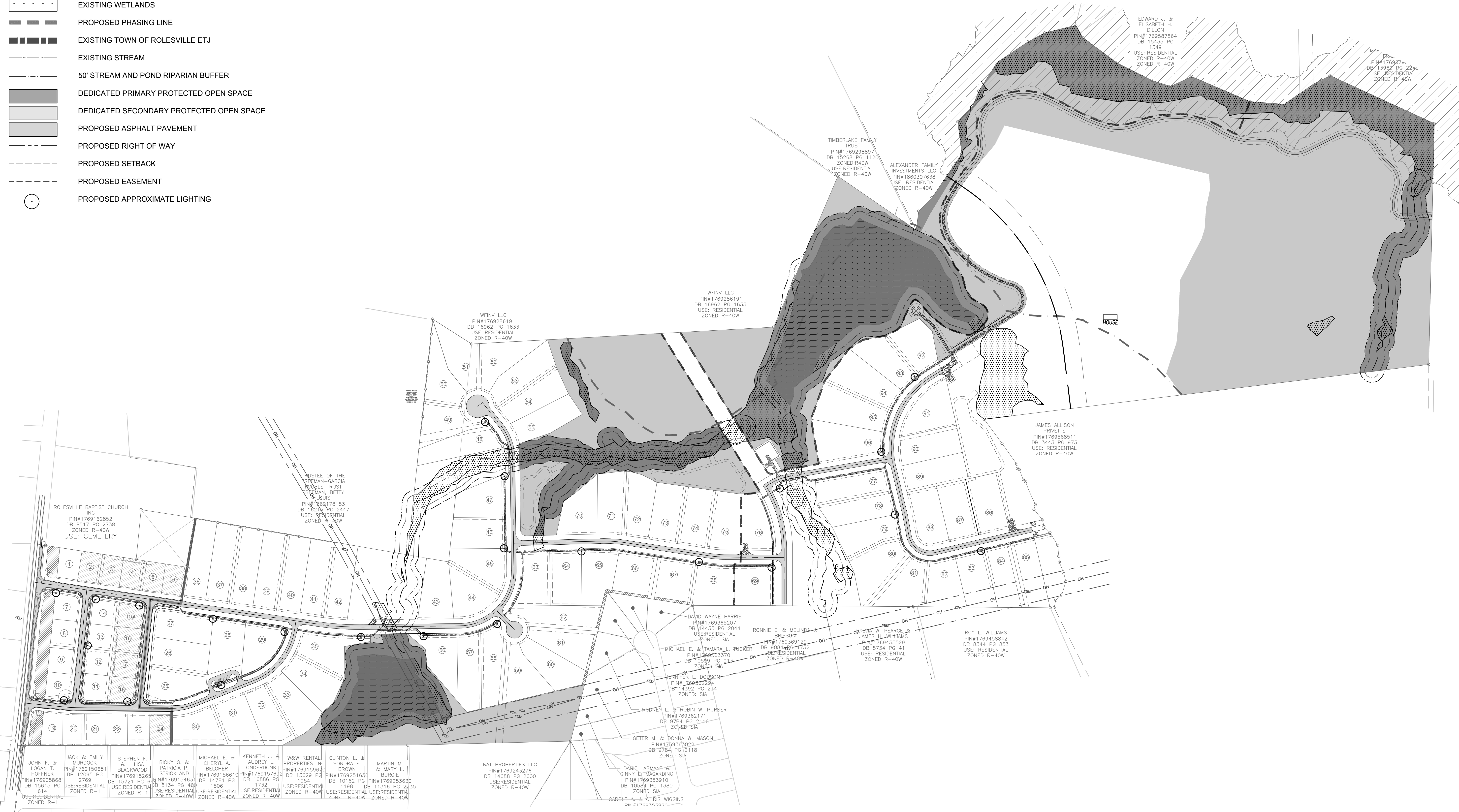
REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
02	CONSTRUCTION DOCUMENTS 2ND SUBMITTAL	08/14/2020
01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020
REV	DESCRIPTION	DATE
	REVISIONS	



NORTH
 Referenced to N.C. GRID (NAD 83)

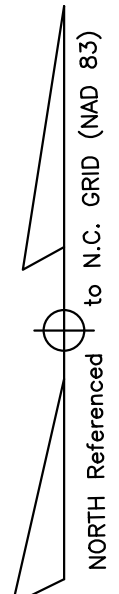
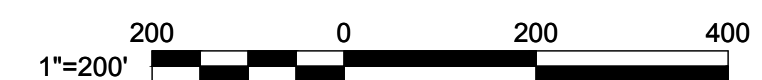
LEGEND:

-  EXISTING POND
-  EXISTING WETLANDS
-  PROPOSED PHASING LINE
-  EXISTING TOWN OF ROLESVILLE ETJ
-  EXISTING STREAM
-  50' STREAM AND POND RIPARIAN BUFFER
-  DEDICATED PRIMARY PROTECTED OPEN SPACE
-  DEDICATED SECONDARY PROTECTED OPEN SPACE
-  PROPOSED ASPHALT PAVEMENT
-  PROPOSED RIGHT OF WAY
-  PROPOSED SETBACK
-  PROPOSED EASEMENT
-  PROPOSED APPROXIMATE LIGHTING



NOTES

1. LIGHTING LOCATIONS ARE APPROXIMATE FOR PLANNING. FULL DESIGN TO BE DONE BY DUKE ENERGY. DEVELOPER TO COORDINATE DESIGN WITH DUKE ENERGY AND TOWN OF ROLESVILLE. DEVELOPER TO PROVIDE TO THE TOWN A LUMENS PLAN AND MONTHLY CHARGE NECESSARY. FINAL DESIGN SHALL MEET ALL TOWN OF ROLESVILLE SPECIFICATIONS



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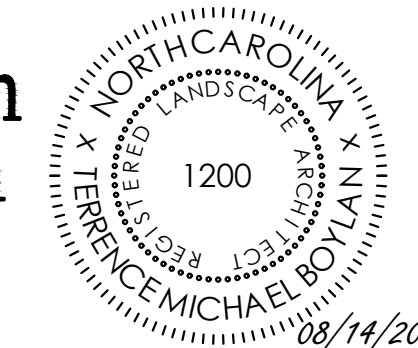
CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION
 410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY

OVERALL LIGHTING PLAN

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 200'
Date:	09/08/2020
Project Number:	P170347
SHEET	
C210	

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REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
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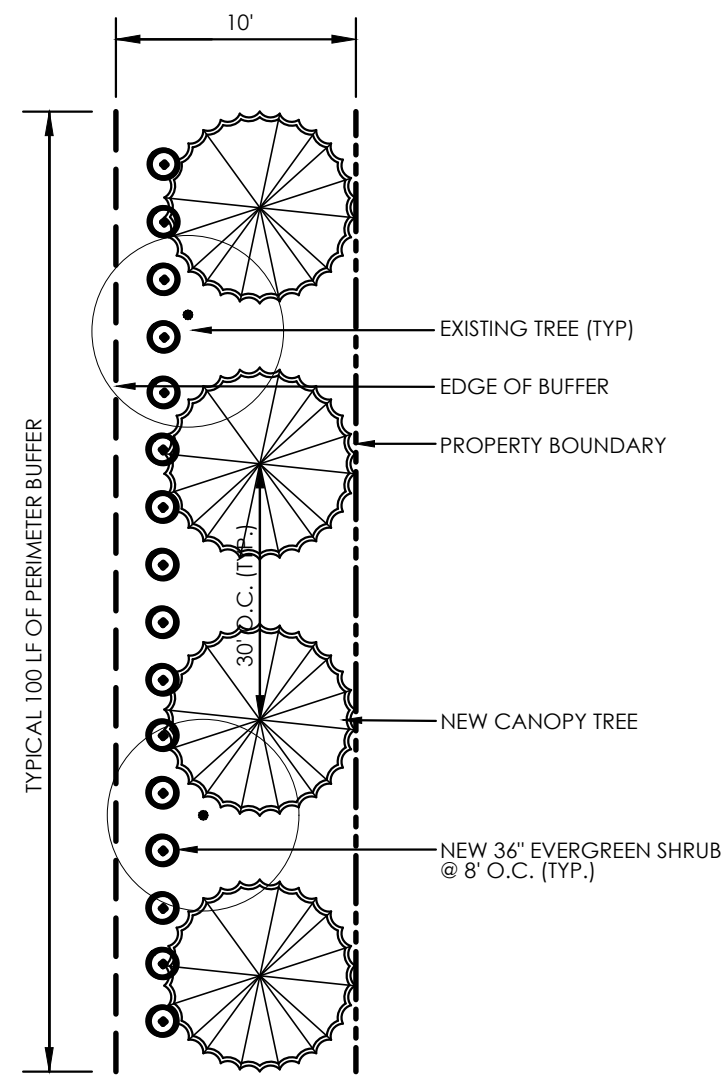


LANDSCAPE COMPLIANCE CHART
ROLESVILLE, NC

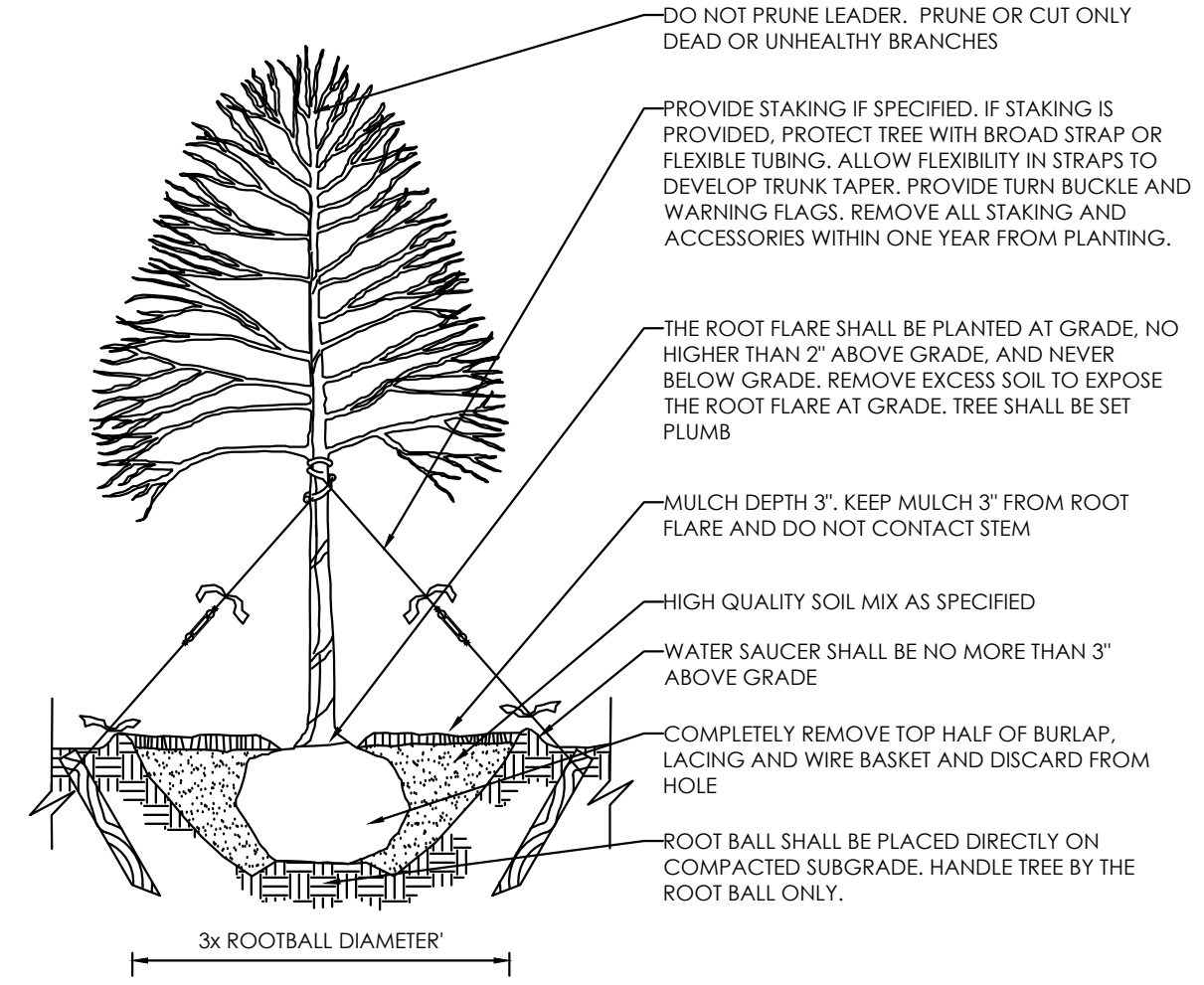
CODE SECTION	BUFFER REQUIREMENT	CALCULATIONS (REQUIRED/PROVIDED)
UDO 14.4.1 STREETSCAPE BUFFER	ONE - 2.5 CALIPER CANOPY TREE AT 40 FT O.C. ALONG LENGTH OF STREETSCAPE BUFFER	725 LF OF BUFFER REQUIRES 19 TREES. 19 TREES PROVIDED
UDO 14.6.7 SEMI-OPAQUE TYPE B PERIMETER BUFFER	THIS BUFFER SERVES AS A SEMI - OPAQUE SCREEN FROM THE GROUND UP TO A HEIGHT OF AT LEAST THREE FEET. CANOPY TREES SHALL REACH A HEIGHT OF AT LEAST 20 FEET AT MATURITY AND HAVE NO UNOBSTRUCTED OPENINGS GREATER THAN 20 FEET BETWEEN CANOPIES. THIS BUFFER MAY INCLUDE A WALL, AN EARTHEN BERM, AN OPAQUE OR SEMI-OPAQUE FENCE EXISTING OR PLANTED VEGETATION, OR ANY APPROPRIATE COMBINATION OF THESE ELEMENTS TO ACHIEVE THE DESIRED OPACITY. AT LEAST 50 PERCENT OF THE REQUIRED SHRUBS MUST BE OF THE EVERGREEN SPECIES. SHRUBBERY IS TO BE PLANTED SUFFICIENTLY CLOSE TOGETHER TO FORM AN OPAQUE SCREEN WITHIN THREE YEARS AFTER PLANTING.	706 LF OF BUFFER REQUIRES 24 TREES AND 118 SHRUBS. 24 TREES AT 30' O.C. AND 120 SHRUBS AT 6' O.C. PROVIDED

PLANTING NOTES

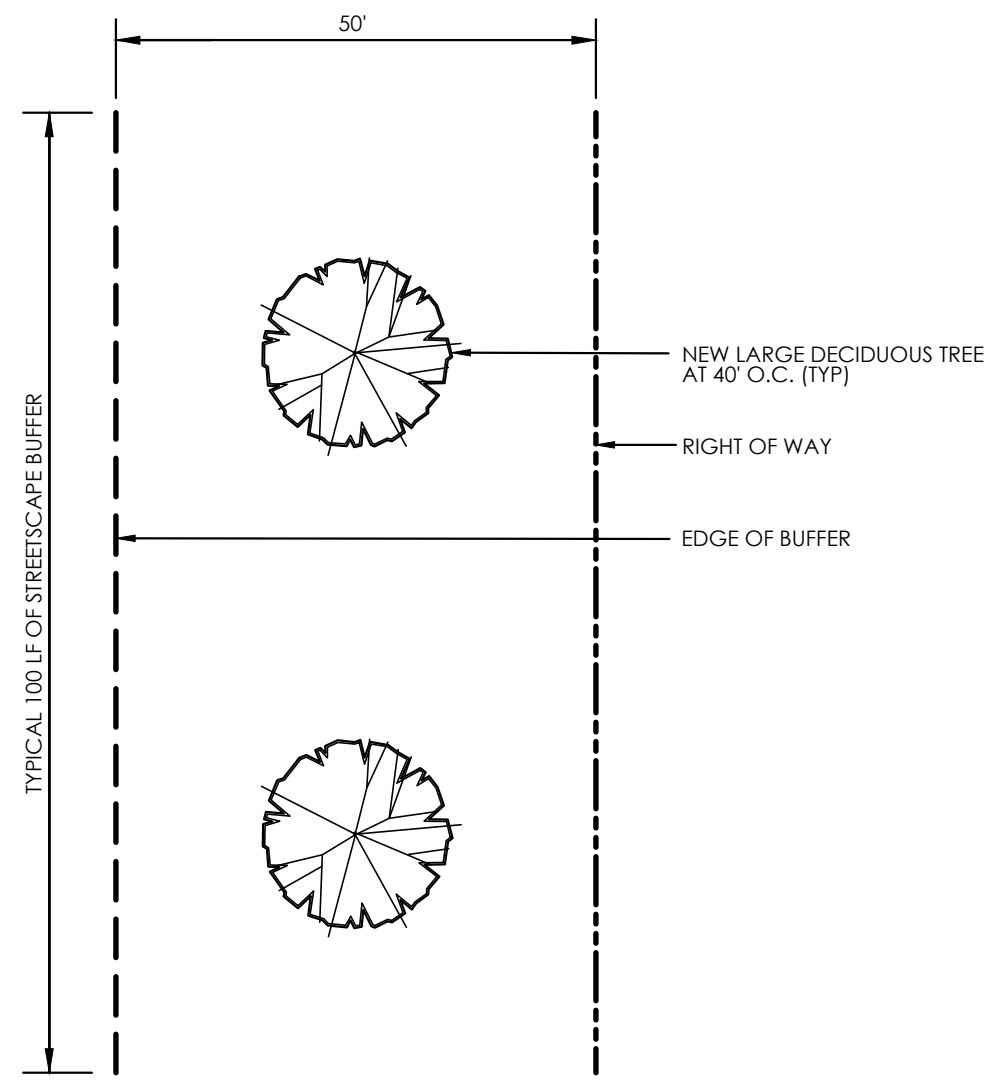
- ALL TECHNICAL SPECIFICATIONS AND GENERAL CONDITIONS APPLY. ALL GENERAL NOTES AND GENERAL CONSTRUCTION NOTES APPLY.
- ALL PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, AND FREE OF PESTS AND DISEASE.
- ALL PLANT MATERIAL SHALL BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED IN THE PLANT LIST.
- ALL TREES SHALL HAVE A STRAIGHT TRUNK AND FULL HEAD AND MEET ALL REQUIREMENTS SPECIFIED.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR 1) TO VERIFY THE LOCATIONS OF UTILITY LINES AND ADJACENT TO THE WORK AREA 2) TO PROTECT OF ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD 3) TO REPAIR ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY SCHEDULE AND PROTECTION BETWEEN DELIVERY AND PLANTING PER SPECIFICATIONS TO MAINTAIN HEALTHY PLANT CONDITIONS.
- THE CONTRACTOR SHALL COMPLETELY GUARANTEE AND BE RESPONSIBLE FOR FULLY MAINTAINING (INCLUDING BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) ALL OF THE PLANT MATERIALS FOR A ONE YEAR GROWING PERIOD.
- ANY PLANT MATERIAL WHICH IS DISEASED, DISTRESSED, DEAD, OR REJECTED (PRIOR TO SUBSTANTIAL COMPLETION) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.
- ALL PLANT MATERIALS SHALL MEET THE MINIMUM CONTAINER SIZE, CLASS AND OTHER REQUIREMENTS OUTLINED IN THE AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION. PLANTS SHALL HAVE NORMAL WELL-DEVELOPED BRANCHES AND VIGOROUS ROOT SYSTEMS.
- WHERE SHOWN ON THE PLANS AND DETAILS, PLANTING BEDS ARE TO BE COMPLETELY COVERED WITH A MINIMUM 3" DEPTH OF TRIPLE SHRED HARDWOOD MULCH PRIOR TO THE END OF EACH WORKING DAY. THE CONTRACTOR SHALL PROPERLY BACKFILL ALL PLANT MATERIAL THAT HAS BEEN PLACED IN PREPARED HOLES; AND PROPERLY WATER AND MULCH ALL PREPARED GROUND COVER, PERENNIAL AND ANNUAL BEDS.
- ALL TREES AND SHRUBS SHALL BE SOAKED WITH WATER AND MULCHED IMMEDIATELY FOLLOWING INSTALLATION.
- ALL ROOT BALLS REMOVED FROM CONTAINERS SHALL BE SCARIFIED BY HAND PRIOR TO PLACEMENT AND BACK FILLING WITH PREPARED SOILS. HAND TOOLS ARE NOT TO BE USED TO SCARIFY ROOT BALLS.
- ALL ROPE AND WRAPPING TWINE SHALL BE CUT AND REMOVED FROM AROUND THE UPPER PARTS OF THE ROOT BALL. METAL BASKET WIRES AND BURLAP SHALL BE PULLED BACK AND TUCKED UNDER THE EDGES OF THE SAUCER RINGS ON ALL TREES AND LARGE SHRUBS. ALL SYNTHETIC BURLAP SHALL BE REMOVED FROM PLANT BALLS PRIOR TO BACKFILLING.
- ALL PLANTING AREAS SHALL BE EDGED WITH SMOOTH, CONTINUOUS CURVES. PINE STRAW MULCH, IF SPECIFIED, SHALL BE ROLLED AND TUCKED ALONG PLANT BED EDGE.
- ALL PLANT MATERIAL SHALL BE PLANTED AT HEIGHTS AS ILLUSTRATED IN THE PLANTING DETAILS & PLANT LIST.
- TREE STAKING AND GUYING, IF NECESSARY, SHALL BE PERFORMED WITHIN A WEEK OF PLANTING. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TREE STAKING MATERIAL AFTER THE FIRST FULL GROWING SEASON OR ONE YEAR, WHICHEVER COMES FIRST.
- THE SPACING AND PLACEMENT OF PLANTS SHALL BE ADEQUATE AND APPROPRIATE FOR THE TYPE, SIZE, SHAPE AND HABIT OF THE PLANT SPECIES AT MATURITY. MEASUREMENTS FOR SPACING REQUIREMENTS SHALL BE TAKEN FROM THE TRUNK, STEM OR SIMILAR CENTER OF THE PLANT MATERIAL.



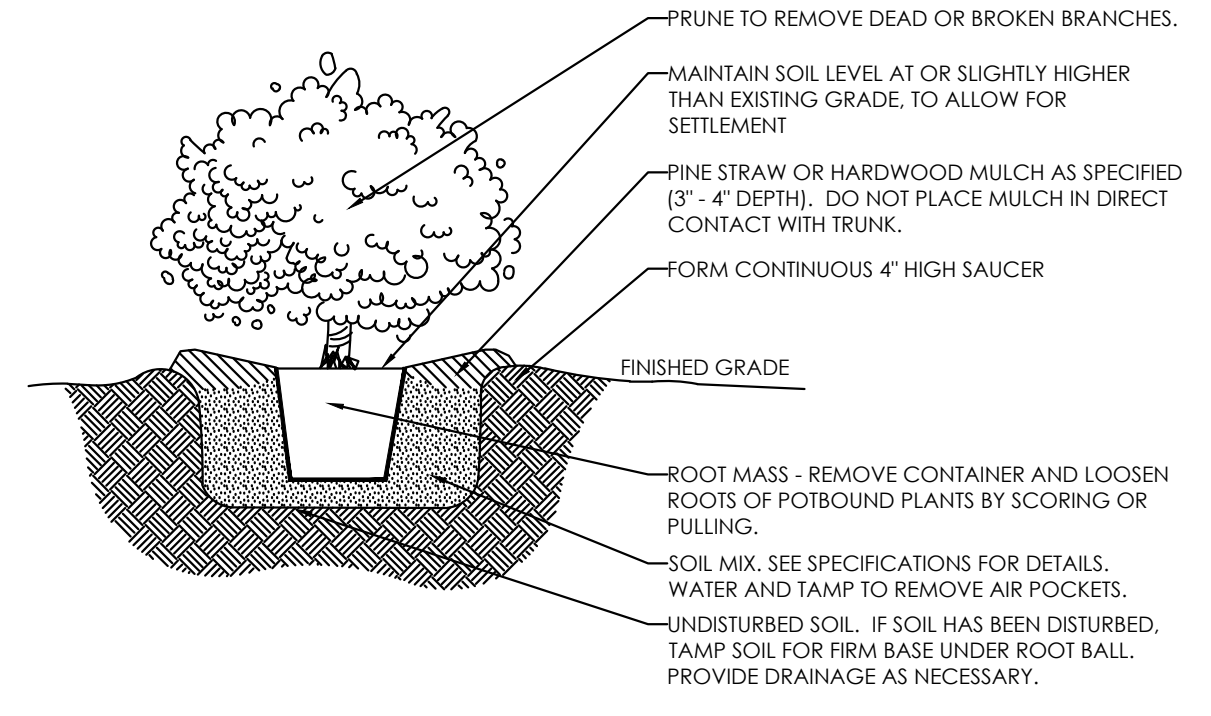
10'W TYPE B SEMI-OPAQUE PERIMETER BUFFER
NTS (BUFFER TO BE LOCATED BEHIND LOTS 60 THRU 67)



DECIDUOUS TREE PLANTING
NOT TO SCALE



TYPE C - 50'W STREETSCAPE BUFFER
NTS (BUFFER LOCATED ALONG WEST YOUNG STREET)



SHRUB PLANTING
NOT TO SCALE

- NOTES:
- ALL TECHNICAL SPECIFICATIONS AND GENERAL CONDITIONS APPLY.
 - REMOVE ALL TAGS, TWINE OR OTHER NON-BIODEGRADABLE MATERIALS ATTACHED TO PLANT OR ROOT MASS.

LANDSCAPE SCHEDULE							
KEY	QTY.	BOTANICAL NAME	COMMON NAME	CAL.	CONT.	SIZE	REMARKS
CANOPY TREES							
NSGG	12	<i>Nyssa sylvatica</i> 'Green Gable'	Black Gum	2.0" CAL	B+B	8-10' HT	PERIMETER BUFFER
QJLY	19	<i>Quercus lyrata</i> 'Highbeam'	'Highbeam' Overcup Oak	2.5" CAL	B+B	12-14' HT	STREETSCAPE BUFFER
TCGS	12	<i>Tilia cordata</i> 'Greenspire'	Littleleaf Linden	2.0" CAL	B+B	8-10' HT	PERIMETER BUFFER
SUBTOTAL:				43			
SHRUBS							
ILBN	40	<i>Ilex cornuta</i> 'Burfordi nana'	Dwarf Burford Holly	N/A	5-7 GAL	24" HT	PERIMETER BUFFER
LJJA	40	<i>Ligustrum japonicum</i> 'Texanum'	Waxleaf Ligustrum	N/A	5-7 GAL	24" HT	PERIMETER BUFFER
MYCE	40	<i>Myrica cerifera</i>	Wax Myrtle	N/A	5-7 GAL	24" HT	PERIMETER BUFFER
SUBTOTAL:				120			

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CHANDLER'S RIDGE
CONSTRUCTION DOCUMENTS
CONSERVATION SUBDIVISION

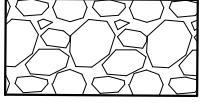




LANDSCAPING DETAILS

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 200'
Date:	09/08/2020
Project Number:	P170347

SHEET
C220

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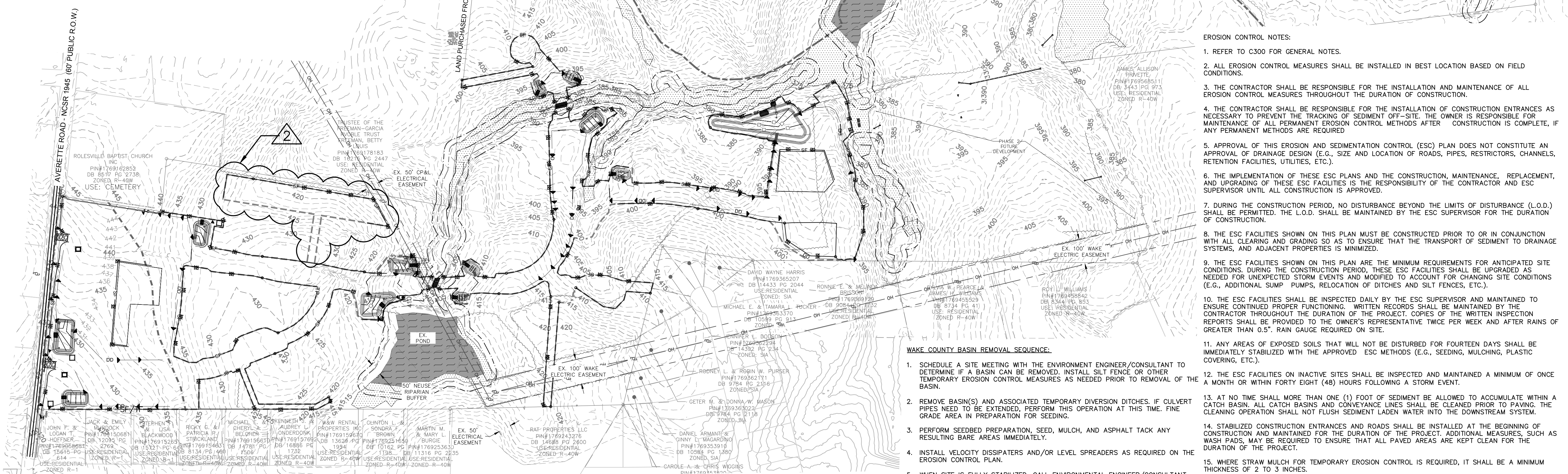
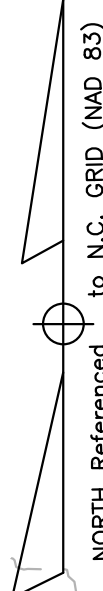
LEGEND:

- - - - - EXISTING CONTOUR
- — — — PROPOSED CONTOUR
- DD ——— TEMPORARY DIVERSION DITCH
- SF ——— SILT FENCE
- TP ——— TREE PROTECTION FENCE
-  TEMPORARY CONSTRUCTION ENTRANCE
-  SILT FENCE OUTLET
-  CHECK DAM
-  INLET PROTECTION
-  ROLLED EROSION CONTROL BLANKET

DISTURBED AREA SUMMARY

		ADDITIONAL DISTURBED AREA
PHASE 1	1,108,465 SF / 25.45 AC.	71,252 SF / 1.64 AC.
PHASE 2	405,574 SF / 9.31 AC.	27,179 SF / 0.62 AC.
TOTAL	1,514,039 SF / 34.76 AC.	98,431 SF / 2.26 AC.

- ADMIXTURES**
- AGRICULTURAL LIMESTONE: 2 TONS/ACRE
 - FERTILIZER: 1,000 LBS/ACRE - 10-10-10
 - SUPERPHOSPHATE: 500 LBS/ACRE - 20% ANALYSIS
 - MULCH: 2 TONS/ACRE - SMALL GRAIN STRAW
 - ANCHOR: ASPHALT EMULSION AT 300 GALS/ACRE



- EROSION CONTROL NOTES:**
- REFER TO C300 FOR GENERAL NOTES.
 - ALL EROSION CONTROL MEASURES SHALL BE INSTALLED IN BEST LOCATION BASED ON FIELD CONDITIONS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF CONSTRUCTION.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF CONSTRUCTION ENTRANCES AS NECESSARY TO PREVENT THE TRACKING OF SEDIMENT OFF-SITE. THE OWNER IS RESPONSIBLE FOR MAINTENANCE OF ALL PERMANENT EROSION CONTROL METHODS AFTER CONSTRUCTION IS COMPLETE, IF ANY PERMANENT METHODS ARE REQUIRED.
 - APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
 - THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR AND ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
 - DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE LIMITS OF DISTURBANCE (L.O.D.) SHALL BE PERMITTED. THE L.O.D. SHALL BE MAINTAINED BY THE ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
 - THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
 - THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.).
 - THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE DURATION OF THE PROJECT. COPIES OF THE WRITTEN INSPECTION REPORTS SHALL BE PROVIDED TO THE OWNER'S REPRESENTATIVE TWICE PER WEEK AND AFTER RAINS OF GREATER THAN 0.5" RAIN GAUGE REQUIRED ON SITE.
 - ANY AREAS OF EXPOSED SOILS THAT WILL NOT BE DISTURBED FOR FOURTEEN DAYS SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
 - THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN FORTY EIGHT (48) HOURS FOLLOWING A STORM EVENT.
 - AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
 - STABILIZED CONSTRUCTION ENTRANCES AND ROADS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
 - WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE A MINIMUM THICKNESS OF 2 TO 3 INCHES.
 - INTERIM SLOPES MAY BE GRADED TO A MAXIMUM SLOPE OF 2:1 (HORIZONTAL: VERTICAL); CUT SLOPES SHALL BE LIMITED TO A MAXIMUM SLOPE OF 1.5:1.
 - THE SURFACE OF AREAS SLOPES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL THAT ARE TO RECEIVE INTERIM FILL SHALL BE PLOWED, FURROWED, TILLED OR BROKEN UP PRIOR TO PLACING FILL SO THAT FILL MATERIAL WILL BOND WITH EXISTING SURFACE. INTERIM FILL SHALL BE PLACED AS SPECIFIED FOR PERMANENT FILLS AND IN LIFTS NOT GREATER THAN 6".
 - PROVIDE DUST CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO, WETTING DOWN TO CONTROL DUST ON SITE, IN ORDER TO PREVENT ANNOYANCE/AND OR DAMAGE TO ADJACENT SITES. CALCIUM CHLORIDE OR ANY OTHER CHEMICAL MATERIAL MAY NOT BE USED ON SUBGRADES OF AREAS TO BE SEEDED OR PLANTED.
 - SEDIMENT LADEN RUNOFF FROM EXCAVATIONS SHALL NOT BE PUMPED DIRECTLY TO STORM DRAINAGE.
 - INSPECTOR REFERS TO LOCAL JURISDICTIONAL (NC DENR OR LOCAL) LAND QUALITY INSPECTOR OR HIS REPRESENTATIVE. FIELD INSPECTIONS MAY REQUIRE ADDITIONAL SEDIMENTATION AND EROSION CONTROL MEASURES AS DEEMED NECESSARY BY THE INSPECTOR.
 - CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL DEVICES SHALL CONFORM TO THE STANDARDS SET FORTH IN THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES LAND QUALITY SECTION EROSION AND SEDIMENT CONTROL PLANNING LAND DESIGN MANUAL.
 - NOTIFICATION OF LAND RESOURCES SEDIMENT AND EROSION CONTROL SELF-INSPECTION PROGRAM: THE PERSON RESPONSIBLE FOR LAND-DISTURBING ACTIVITIES IS REQUIRED TO INSPECT THE PROJECT AFTER EACH PHASE OF THE PROJECT AND CONTINUED UNTIL PERMANENT GROUND COVER IS ESTABLISHED IN ACCORDANCE WITH NCGS 113A-54.1 AND 15A NCGS 48.0131 TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. THE SELF-INSPECTION REPORT FORM IS AVAILABLE AS AN EXCEL SPREADSHEET FORM [HTTP://WWW.DLR.ENR.STATE.NC.US/PAGES/SEDIMENTATION_NEW.HTM](http://www.dlr.enr.state.nc.us/PAGES/SEDIMENTATION_NEW.HTM)
 - COMPLIANCE WITH THE STATE NCGS1 SELF-INSPECTION PROGRAM IS REQUIRED FOR THIS SITE.

- WAKE COUNTY BASIN REMOVAL SEQUENCE:**
- SCHEDULE A SITE MEETING WITH THE ENVIRONMENT ENGINEER/CONSULTANT TO DETERMINE IF A BASIN CAN BE REMOVED. INSTALL SILT FENCE OR OTHER TEMPORARY EROSION CONTROL MEASURES AS NEEDED PRIOR TO REMOVAL OF THE BASIN.
 - REMOVE BASIN(S) AND ASSOCIATED TEMPORARY DIVERSION DITCHES. IF CULVERT PIPES NEED TO BE EXTENDED, PERFORM THIS OPERATION AT THIS TIME. FINE GRADE AREA IN PREPARATION FOR SEEDING.
 - PERFORM SEEDBED PREPARATION, SEED, MULCH, AND ASPHALT TACK ANY RESULTING BARE AREAS IMMEDIATELY.
 - INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
 - WHEN SITE IS FULLY STABILIZED, CALL ENVIRONMENTAL ENGINEER/CONSULTANT FOR APPROVAL OF REMOVING REMAINING TEMPORARY EROSION CONTROL MEASURES AND ADVISE ON WHEN SITE CAN BE ISSUED A CERTIFICATE OF COMPLETION.

- TEMPORARY SEEDBED PREPARATION:**
- CHISEL COMPACTED AREAS AND SPREAD TOPSOIL THREE INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
 - RIP THE ENTIRE AREA TO SIX INCHES DEEP.
 - REMOVE ALL LOOSE ROCK, ROOTS AND OTHER OBSTRUCTIONS, LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
 - APPLY AGRICULTURAL LIME, FERTILIZER AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE ADMIXTURE BELOW).
 - CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED FOUR TO SIX INCHES DEEP.
 - SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULPACK AFTER SEEDING.
 - MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
 - INSPECT ALL SEEDBED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE MORE THAN 60% DAMAGED, RE-ESTABLISH FOLLOWING THE ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
 - CONSULT WAKE COUNTY EROSION & SEDIMENT CONTROL DEPARTMENT ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

- STACKPILE MAINTENANCE NOTES:**
- SEEDING OR COVERING STOCKPILES WITH TARPS OR MULCH IS REQUIRED AND WILL REDUCE EROSION PROBLEMS. TARPS SHOULD BE KEPT IN AT THE TOP OF THE SLOPE TO KEEP WATER FROM RUNNING UNDERNEATH THE PLASTIC.
 - IF A STOCKPILE IS TO REMAIN FOR FUTURE USE AFTER THE PROJECT IS COMPLETE (BUILDERS, ETC.), THE FINANCIALLY RESPONSIBLE PARTY MUST NOTIFY WAKE COUNTY OF A NEW RESPONSIBLE PARTY FOR THAT STOCKPILE.
 - THE APPROVED PLAN SHALL PROVIDE FOR THE USE OF STAGES SEEDING AND MULCHING ON A CONTINUAL BASIS WHILE STOCKPILE IS IN USE.
 - ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL).

- TREE PROTECTION NOTES:**
- TREE PROTECTION FENCING MUST BE IN PLACE PRIOR TO ANY DEMOLITION, LAND DISTURBANCE OR ISSUANCE OF A GRADING PERMIT, OR OBTAIN A GRADING PERMIT THEN TREE PROTECTION FENCING MUST BE IN PLACE PRIOR TO ANY DEMOLITION, LAND DISTURBANCE.
 - TREE PROTECTION FENCING SHALL INCLUDE WARNING SIGNS POSTED IN BOTH ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESPASSING/TREE PROTECTION AREA/PROHIBIDO ENTRAR / ZONA PROTECTORA PARA LOS ARBOLES."
 - PROTECTION OF EXISTING VEGETATION: AT THE START OF GRADING INVOLVING THE LOWERING OF EXISTING GRADE AROUND A TREE OR STRIPPING OF TOPSOIL, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE ON THE TREE ROOTS OUTSIDE OF THE TREE SAVE AREA. THIS SHALL OCCUR AT THE SAME TIME THAT OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE.
 - NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED TREE AREA.
 - TREE PROTECTION AREA: EQUALS ONE FOOT OF RADIUS FOR EVERY INCH OF DIAMETER OF EXISTING TREES, OR SIX FOOT RADIUS, WHICHEVER IS GREATER. NO DISTURBANCE ALLOWED WITHIN THIS AREA.

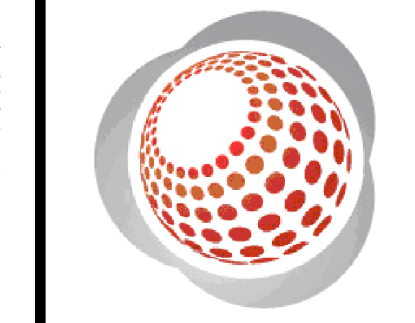
- SEEDBED PREPARATION:**
- CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONED, IF AVAILABLE.
 - RIP THE ENTIRE AREA TO 6 INCHES DEPTH.
 - REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
 - APPLY ALL AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE BELOW).
 - CONTINUE TILLAGE UNTIL A WELL PULVERIZED, FIRM, REASONABLY UNIFORM 4 TO 6 INCHES DEEP SEEDBED IS PREPARED.
 - SEED ON A FRESHLY PREPARED SEED BED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULPACK AFTER SEEDING.
 - MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
 - INSPECT ALL SEEDBED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDING WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE OVER 60% DAMAGED, REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
 - INSPECT ALL SEEDBED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDING WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE MORE THAN 60% DAMAGED, RE-ESTABLISH FOLLOWING THE ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
 - SEE LANDSCAPING PLANS FOR PERMANENT SEEDING, MULCHING, AND FERTILIZING RATES. ALL AREAS NOT DESIGNATED TO RECEIVE PLANTS SHALL BE SEED PER THE LANDSCAPING PLANS.

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REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
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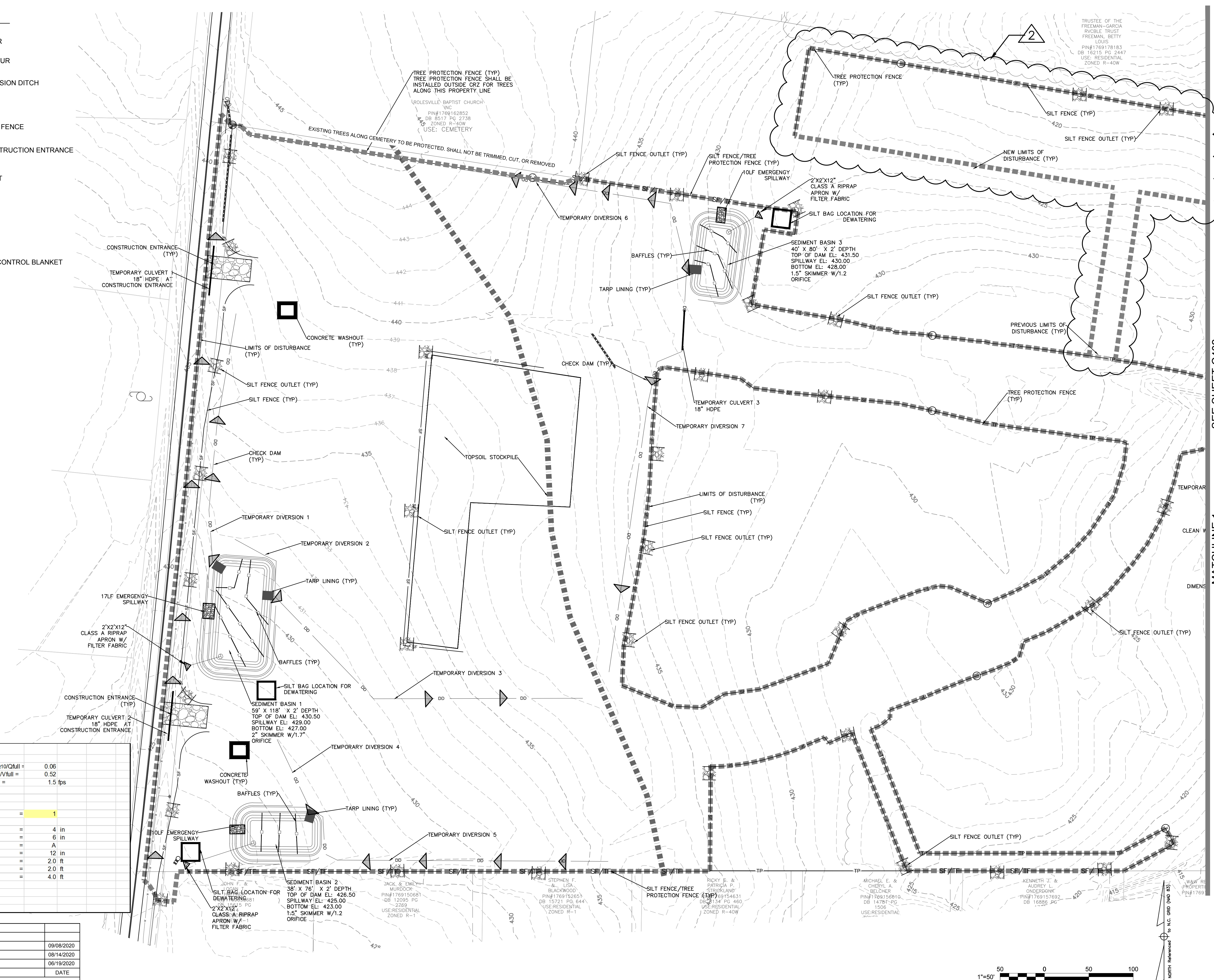
**CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION**

**OVERALL EROSION
 CONTROL PLAN PH 1 ST 1**

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 200'
Date:	09/08/2020
Project Number:	P170347
SHEET	
C400	

LEGEND:

- EXISTING CONTOUR
- PROPOSED CONTOUR
- DD TEMPORARY DIVERSION DITCH
- SF SILT FENCE
- TP TREE PROTECTION FENCE
- [Pattern] TEMPORARY CONSTRUCTION ENTRANCE
- [Pattern] SILT FENCE OUTLET
- [Triangle] CHECK DAM
- [Circle] INLET PROTECTION
- [Pattern] ROLLED EROSION CONTROL BLANKET



Outlet Protection		
Structure=	Skimmer Basins	Q10/Qfull = 0.06
Size=	6 in	V/Vfull = 0.52
Q10 =	0.04 cfs	V = 1.5 fps
Qfull =	0.56 cfs	
Vfull =	2.85 fps	
From Fig. 8.06 b.1:	Zone =	1
From Fig. 8.06 b.2:	D50 =	4 in
	Dmax =	6 in
	Riprap Class =	A
	Apron Thickness =	12 in
	Apron Length =	2.0 ft
	Apron Width = 3 x Dia	2.0 ft
	Width at End = Width x Length	4.0 ft

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CHANDLER'S RIDGE
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EROSION CONTROL
 PLAN PH 1 ST 1

Project Engineer:	TSS
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Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 50'
Date:	09/08/2020
Project Number:	P170347
SHEET	
C401	






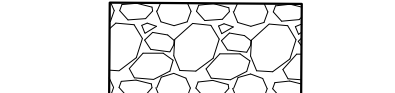



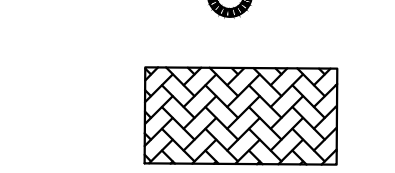
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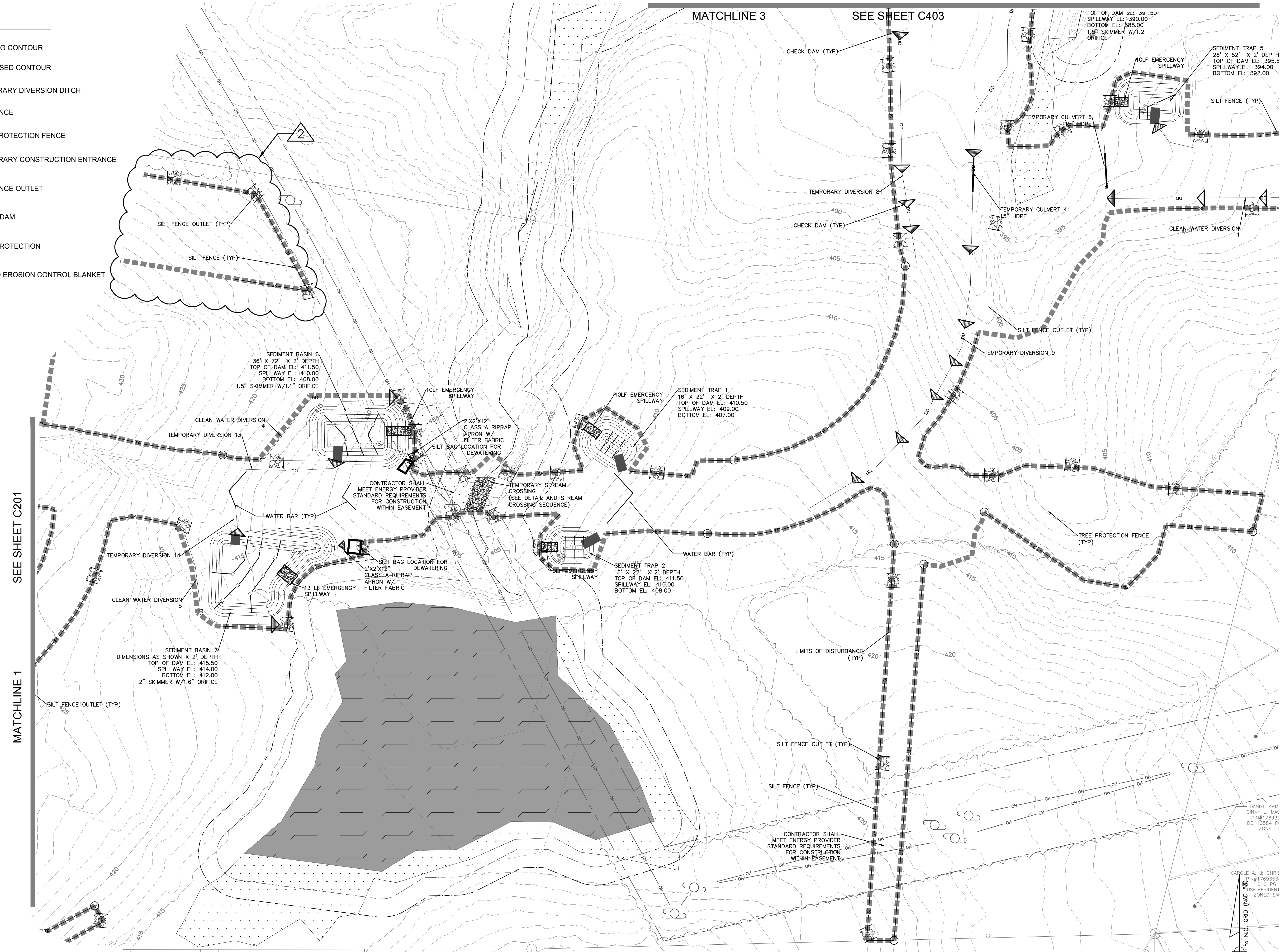
MATCHLINE 1 SEE SHEET C402



NORTH

LEGEND:

-  EXISTING CONTOUR
-  PROPOSED CONTOUR
-  TEMPORARY DIVERSION DITCH
-  SILT FENCE
-  TREE PROTECTION FENCE
-  TEMPORARY CONSTRUCTION ENTRANCE
-  SILT FENCE OUTLET
-  CHECK DAM
-  INLET PROTECTION
-  ROLLED EROSION CONTROL BLANKET



MATCHLINE 1 SEE SHEET C201

MATCHLINE 3 SEE SHEET C403

MATCHLINE 2 SEE SHEET C404



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CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
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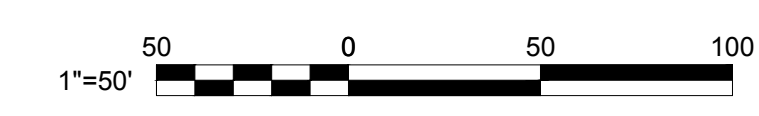
EROSION CONTROL
 PLAN PH 1 ST 1

Project Engineer:	TSS
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Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 50'
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Project Number:	P170347

SHEET
C402

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	DESCRIPTION	
	REVISIONS	






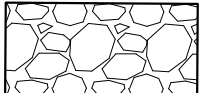
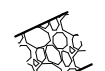





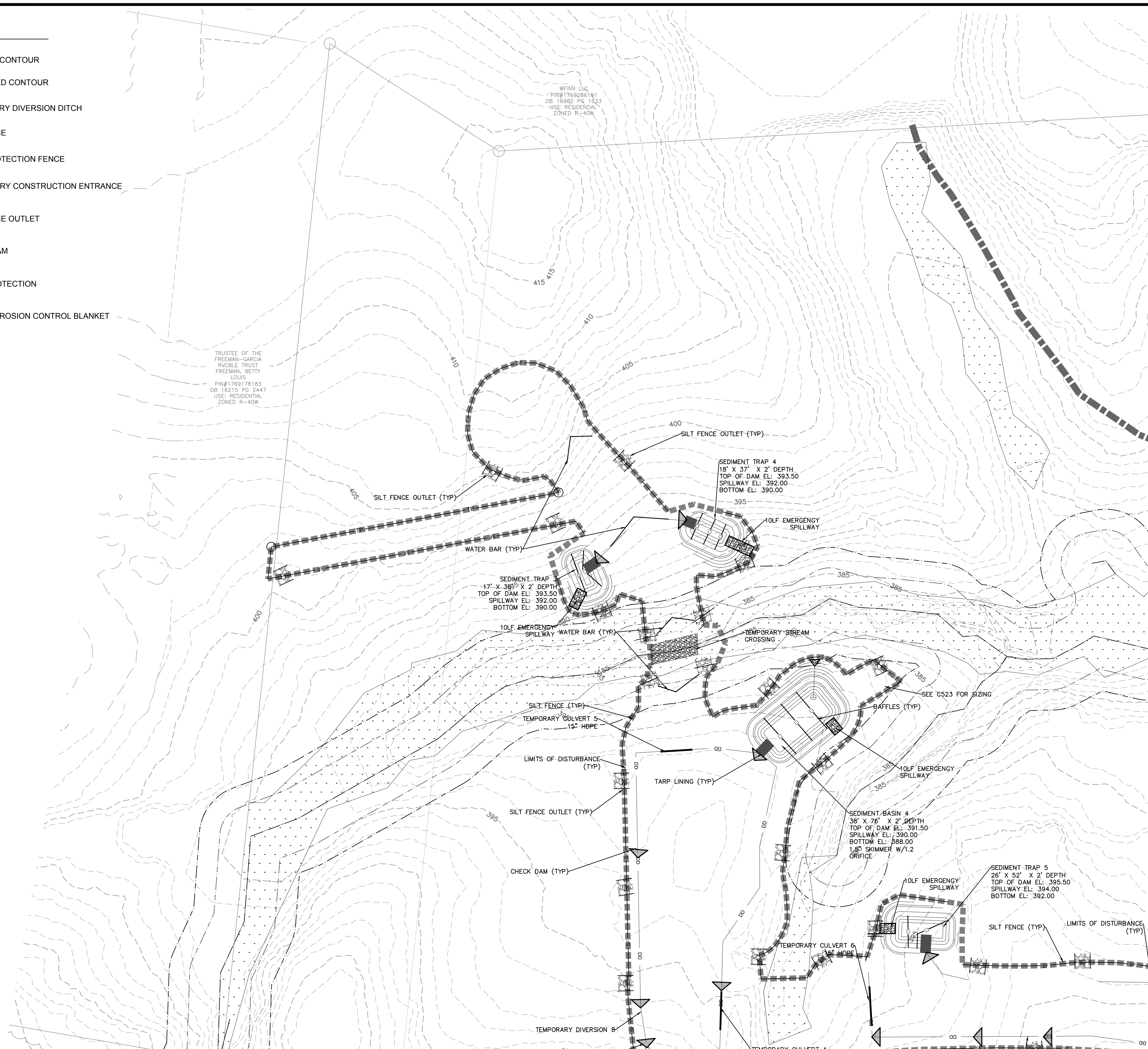
NORTH Referenced to N.C. GRID (NAD 83)

DANIEL ARM
 GINNY L. MAE
 PIN# 1769353
 DB 10384 PI
 ZONED :

RAT PROPERTIES, LLC

LEGEND:

-  EXISTING CONTOUR
-  PROPOSED CONTOUR
-  TEMPORARY DIVERSION DITCH
-  SILT FENCE
-  TREE PROTECTION FENCE
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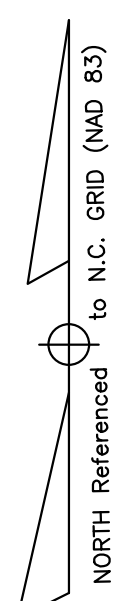
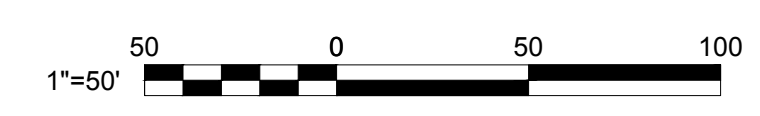


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MATCHLINE 2 SEE SHEET C404

MATCHLINE 3 SEE SHEET C402



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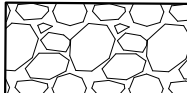
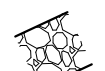



CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION
 410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY

EROSION CONTROL
 PLAN PH 1 ST 1

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 50'
Date:	09/08/2020
Project Number:	P170347

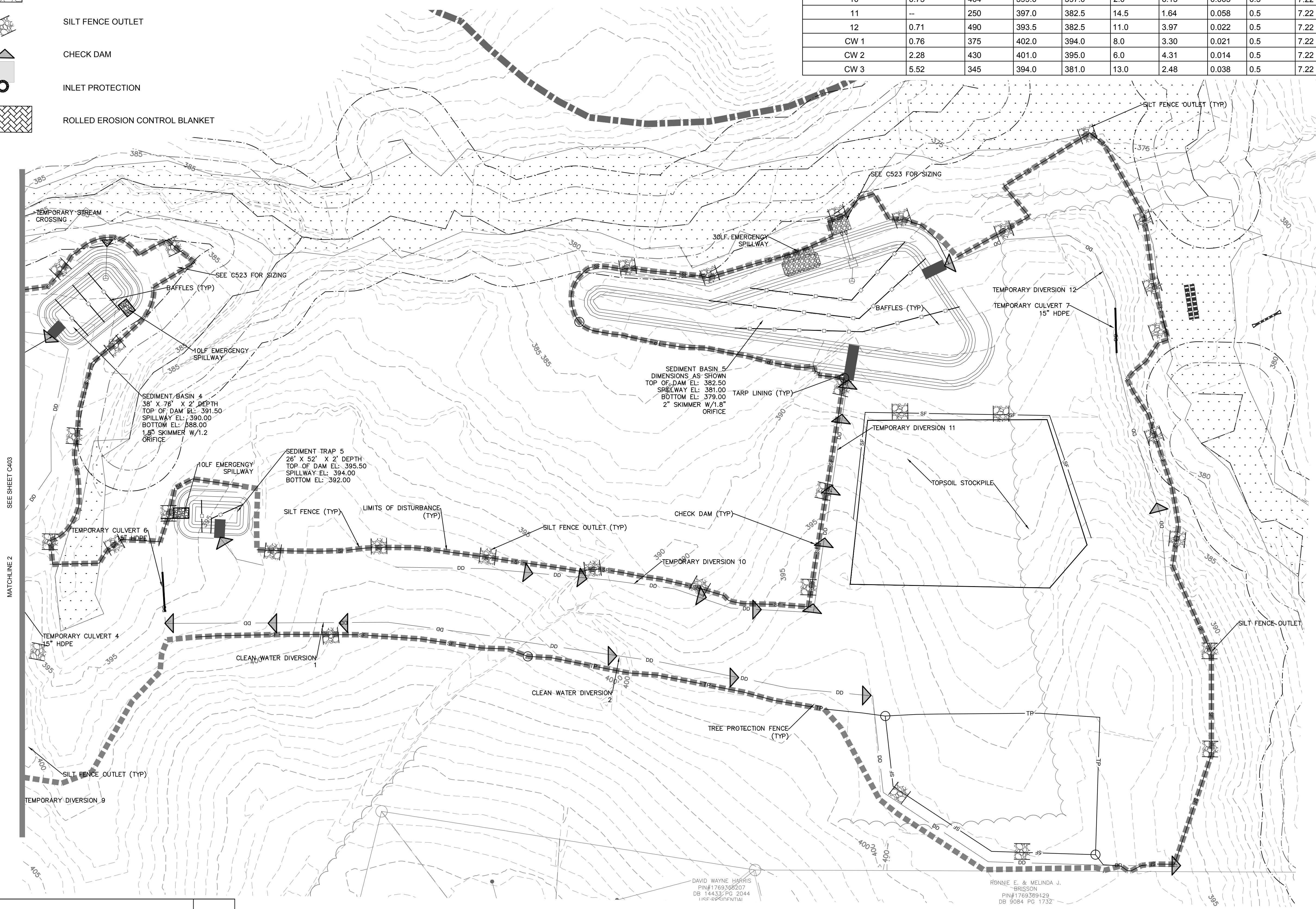
SHEET
C403

LEGEND:

-  EXISTING CONTOUR
-  PROPOSED CONTOUR
-  TEMPORARY DIVERSION DITCH
-  SILT FENCE
-  TREE PROTECTION FENCE
-  TEMPORARY CONSTRUCTION ENTRANCE
-  SILT FENCE OUTLET
-  CHECK DAM
-  INLET PROTECTION
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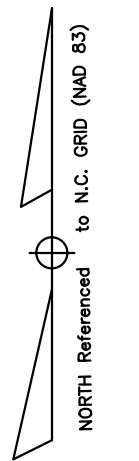
Temporary Culvert						
ID	Length (ft)	Slope (ft/ft)	Diameter (in)	Drainage Area (ac)	Intensity (in/hr)	Q2 (cfs)
1	56	0.010	15	0.79	5.64	2.23
2	56	0.010	18	1.74	5.64	4.90
3	45	0.010	18	1.28	5.64	3.61
4	40	0.010	15	1.05	5.64	2.96
5	40	0.010	15	0.45	5.64	1.27
6	40	0.010	15	0.76	5.64	2.14
7	45	0.010	15	0.71	5.64	2.00

DIVERSION DITCH LINER SUMMARY - Chandler's Ridge													
Temporary Diversion #	Total Area (ac)	Total Length	Begin Elevation	End Elevation	Δ Elevation	Tc	Slope	C	Intensity	Q	Depth	Shear	Liner
Phase 1 Stage 1 Diversions													
1	0.70	300	436.5	430.5	6.0	2.85	0.020	0.5	7.22	2.54	0.45	0.56	Straw w/ Net
2	0.53	100	431.0	430.5	0.5	2.08	0.005	0.5	7.22	1.91	0.53	0.17	Straw w/ Net
3	2.83	410	438.0	430.5	7.5	3.75	0.018	0.5	7.22	10.23	0.78	0.89	Straw w/ Net
4	0.53	100	427.0	426.5	0.5	2.08	0.005	0.5	7.22	1.92	0.53	0.17	Straw w/ Net
5	1.00	380	436.0	426.5	9.5	3.13	0.025	0.5	7.22	3.62	0.19	0.30	Straw w/ Net
6	0.52	332	444.0	431.5	12.5	2.41	0.038	0.5	7.22	1.89	0.36	0.85	Straw w/ Net
7	1.28	490	437.5	431.5	6.0	5.02	0.012	0.5	7.22	4.62	0.62	0.47	Straw w/ Net
8	0.45	470	403.0	391.5	11.5	3.72	0.024	0.5	7.22	1.64	0.37	0.56	Straw w/ Net
9	1.05	710	416.0	391.5	24.5	4.48	0.035	0.5	7.22	3.80	0.48	1.03	Straw w/ Net
10	0.75	404	399.0	397.0	2.0	6.13	0.005	0.5	7.22	2.70	0.60	0.19	Straw w/ Net
11	--	250	397.0	382.5	14.5	1.64	0.058	0.5	7.22	2.70	0.38	1.38	Straw w/ Net
12	0.71	490	393.5	382.5	11.0	3.97	0.022	0.5	7.22	2.70	0.46	0.64	Straw w/ Net
CW 1	0.76	375	402.0	394.0	8.0	3.30	0.021	0.5	7.22	2.76	0.46	0.61	Straw w/ Net
CW 2	2.28	430	401.0	395.0	6.0	4.31	0.014	0.5	7.22	8.22	0.75	0.65	Straw w/ Net
CW 3	5.52	345	394.0	381.0	13.0	2.48	0.038	0.5	7.22	19.93	0.87	2.05	SC250



DAVID WAYNE HARRIS
 PIN# 1769395507
 DB 14433/PG 2044
 (ref:sp6in/ntml)

RONNIE E. & MELINDA J.
 "BRISSON"
 PIN# 1769369429
 DB 9084/PG 1732

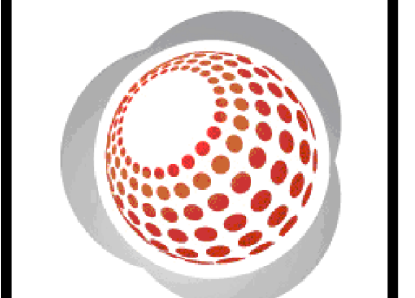


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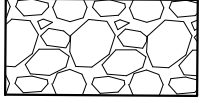




CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION

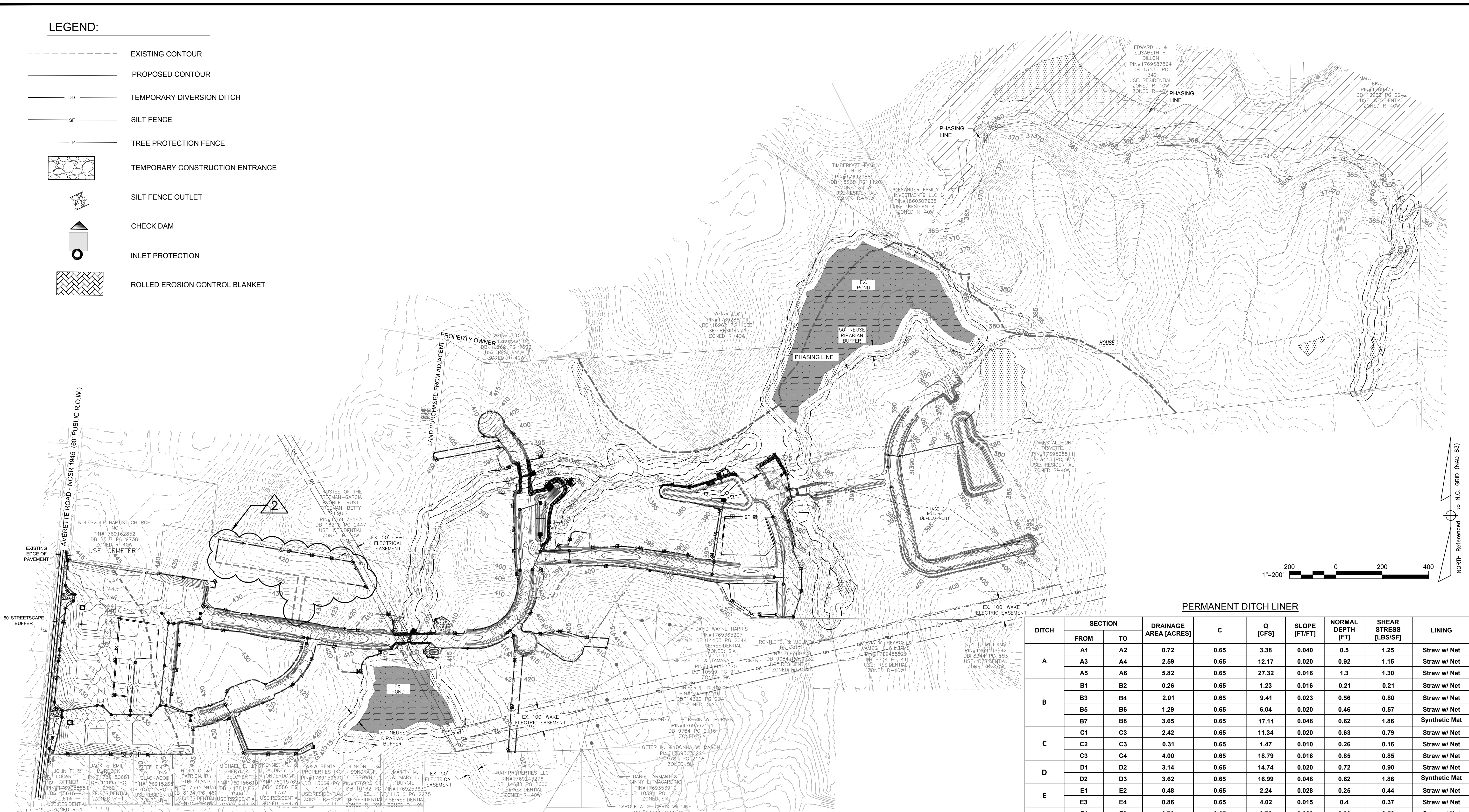
EROSION CONTROL
 PLAN PH 1 ST 1

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 50'
Date:	09/08/2020
Project Number:	P170347

SHEET
C404

LEGEND:

- EXISTING CONTOUR
- PROPOSED CONTOUR
- DD — TEMPORARY DIVERSION DITCH
- SF — SILT FENCE
- TP — TREE PROTECTION FENCE
-  TEMPORARY CONSTRUCTION ENTRANCE
-  SILT FENCE OUTLET
-  CHECK DAM
-  INLET PROTECTION
-  ROLLED EROSION CONTROL BLANKET



PERMANENT DITCH LINER

DITCH	SECTION		DRAINAGE AREA (ACRES)	C	Q [CFS]	SLOPE [FT/FT]	NORMAL DEPTH [FT]	SHEAR STRESS [LBS/SF]	LINING
	FROM	TO							
A	A1	A2	0.72	0.65	3.38	0.040	0.5	1.25	Straw w/ Net
	A3	A4	2.59	0.65	12.17	0.020	0.92	1.15	Straw w/ Net
	A5	A6	5.82	0.65	27.32	0.016	1.3	1.30	Straw w/ Net
B	B1	B2	0.26	0.65	1.23	0.016	0.21	0.21	Straw w/ Net
	B3	B4	2.01	0.65	9.41	0.023	0.56	0.80	Straw w/ Net
	B5	B6	1.29	0.65	6.04	0.020	0.46	0.57	Straw w/ Net
C	B7	B8	3.65	0.65	17.11	0.048	0.62	1.86	Synthetic Mat
	C1	C3	2.42	0.65	11.34	0.020	0.63	0.79	Straw w/ Net
	C2	C3	0.31	0.65	1.47	0.010	0.26	0.16	Straw w/ Net
D	C3	C4	4.00	0.65	18.79	0.016	0.85	0.85	Straw w/ Net
	D1	D2	3.14	0.65	14.74	0.020	0.72	0.90	Straw w/ Net
	D2	D3	3.62	0.65	16.99	0.048	0.62	1.86	Synthetic Mat
E	E1	E2	0.48	0.65	2.24	0.028	0.25	0.44	Straw w/ Net
	E3	E4	0.86	0.65	4.02	0.015	0.4	0.37	Straw w/ Net
	F1	F2	0.79	0.65	3.73	0.028	0.33	0.58	Straw w/ Net
F	F4	F3	0.42	0.65	1.99	0.016	0.27	0.27	Straw w/ Net
	F5	F6	1.70	0.65	7.97	0.037	0.46	1.06	Straw w/ Net
	F7	F8	2.14	0.65	10.04	0.012	0.68	0.51	Straw w/ Net
	F9	F8	0.68	0.65	3.21	0.014	0.36	0.31	Straw w/ Net
	F9	F10	1.25	0.65	5.87	0.028	0.42	0.73	Straw w/ Net
	F11	F10	0.46	0.65	2.17	0.011	0.32	0.22	Straw w/ Net
	F11	F12	0.35	0.65	1.66	0.014	0.25	0.22	Straw w/ Net
G	F14	F13	0.44	0.65	2.06	0.021	0.26	0.34	Straw w/ Net
	F15	F16	1.21	0.65	5.69	0.022	0.44	0.60	Straw w/ Net
	F17	F18	1.63	0.65	7.66	0.010	0.62	0.39	Straw w/ Net
	G1	G2	0.23	0.65	1.07	0.014	0.2	0.17	Straw w/ Net
G	G1	G3	0.46	0.65	2.15	0.028	0.24	0.42	Straw w/ Net
	G4	G3	0.19	0.65	0.90	0.011	0.2	0.14	Straw w/ Net

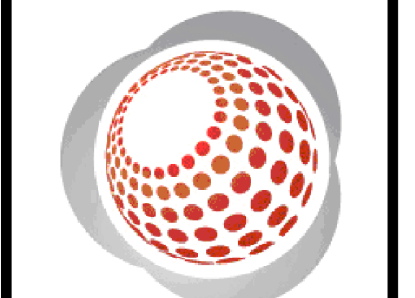
STREAM CROSSING CONSTRUCTION SEQUENCE:

1. KEEP CLEARING AND EXCAVATION OF THE STREAM BANKS AND BED AND APPROACH SECTIONS TO A MINIMUM.
2. DIVERT ALL SURFACE WATER FROM THE CONSTRUCTION SITE ONTO UNDISTURBED AREAS ADJOINING THE STREAM. LINE UNSTABLE STREAM BANKS WITH RIPRAP OR OTHERWISE APPROPRIATELY STABILIZE THEM.
3. CONSTRUCTION OF STREAM CULVERT SHALL BE COMPLETED IN 48 HOURS OF DRY WEATHER.
4. ENSURE BYPASS CHANNELS, IF USING TO DEWATER THE CROSSING SITE, ARE STABLE BEFORE DIVERTING THE STREAM. UPON COMPLETION OF THE CROSSING, FILL, COMPACT AND STABILIZE THE BYPASS CHANNEL APPROPRIATELY. PUMP AROUND MAY BE USED INSTEAD OF BYPASS CHANNEL AND MUST BE IN PLACE AS SHOWN IN DETAIL PRIOR TO DEWATERING THE CROSSING SITE.
5. PLACE FILL AND INSTALL PROTECTIVE COVER TO PROVIDE PERMANENT EROSION PROTECTION.
6. ENSURE THAT PERMANENT MEASURES NEEDED TO CONTROL EROSION FROM ROAD WATER RUNOFF MEET ALL CONSTRUCTION REQUIREMENTS FOR THOSE PRACTICES.
7. INSPECT STREAM CROSSINGS PERIODICALLY AND AFTER MAJOR STORMS TO CHECK FOR CHANNEL BLOCKAGE, EROSION OF ABUTMENTS, CHANNEL DEGRADATION, RIPRAP DISPLACEMENT, SLOPE FAILURE AND PIPING. MAKE ALL NEEDED REPAIRS IMMEDIATELY.

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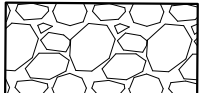
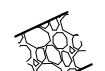



CHANDLER'S RIDGE
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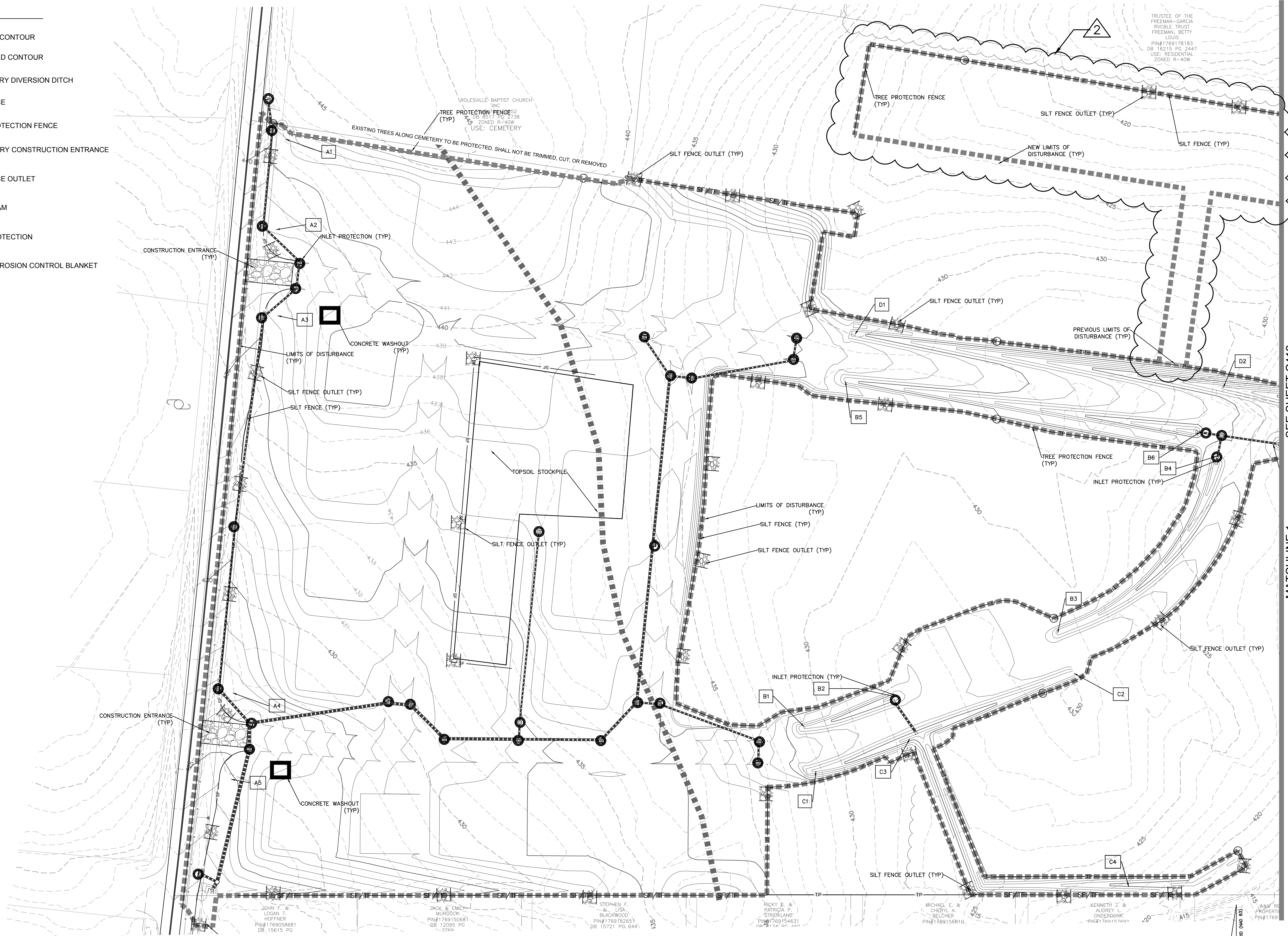
OVERALL EROSION
 CONTROL PLAN PH 1 ST 2

Project Engineer: TSS
 Designed By: TEP
 Drawn By: TEP
 Checked By: TSS
 Scale: 1" = 200'
 Date: 09/08/2020

Project Number: P170347
 SHEET
C410

LEGEND:

-  EXISTING CONTOUR
-  PROPOSED CONTOUR
-  TEMPORARY DIVERSION DITCH
-  SILT FENCE
-  TREE PROTECTION FENCE
-  TEMPORARY CONSTRUCTION ENTRANCE
-  SILT FENCE OUTLET
-  CHECK DAM
-  INLET PROTECTION
-  ROLLED EROSION CONTROL BLANKET



Bateman Civil Survey Company
 Engineers • Surveyors • Planners
 2824 Reliance Avenue, Apex, North Carolina 27539
 Phone: 919.577.1080 Fax: 919.577.1081
 NCBELS FIRM No. C-2378



CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION

EROSION CONTROL
 PLAN PH 1 ST 2

Project Engineer: TSS
 Designed By: TEP
 Drawn By: TEP
 Checked By: TSS
 Scale: 1" = 50'

Date: 09/08/2020
 Project Number: P170347
 SHEET
C411

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REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
02	CONSTRUCTION DOCUMENTS 2ND SUBMITTAL	08/14/2020
01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020
	DESCRIPTION	DATE
	REVISIONS	






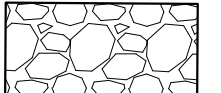
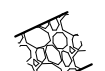



JOHN F. & LOGAN T. HOFFNER PIN#1769058681 DB 15615 PG 22768
 JACK & EMIL MURDOCK PIN#1769150681 DB 12095 PG 22768
 STEPHEN F. & LISA BLACKWOOD PIN#1769152651 DB 15721 PG 644 135
 RICKY B. & PATRICIA P. STROBLAND PIN#1769154631 DB 15114 PG 268
 MICHAEL E. & CHERYL A. BELCHER PIN#1769150610
 KENNETH J. & AUDREY L. ONDERDONK PIN#176917660

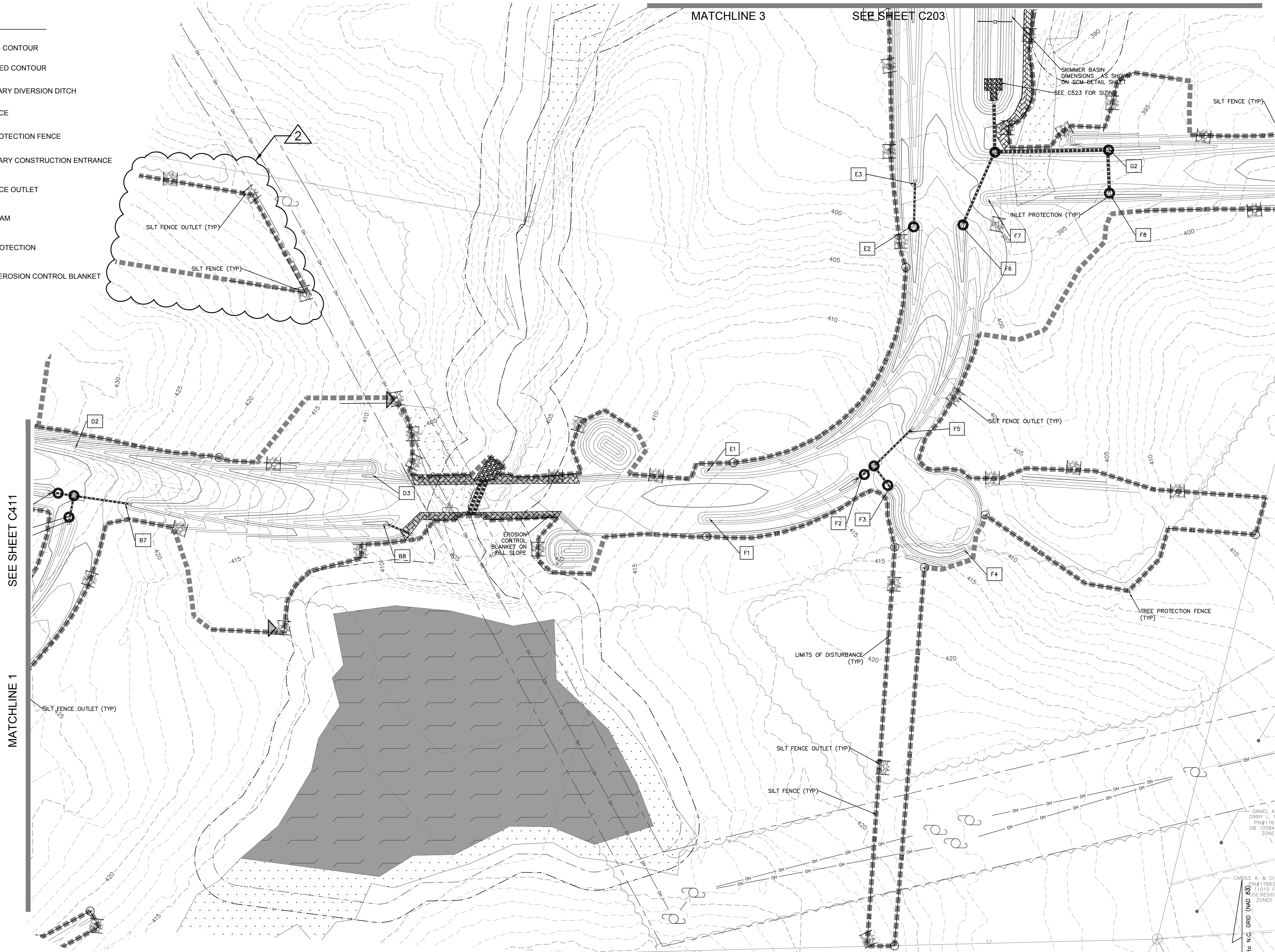


NORTH Referenced to N.C. GRID (NAD 83)

MATCHLINE 1 SEE SHEET C412

LEGEND:

-  EXISTING CONTOUR
-  PROPOSED CONTOUR
-  TEMPORARY DIVERSION DITCH
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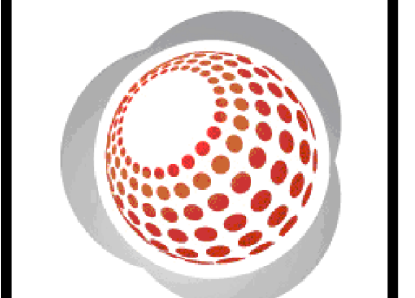


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CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION

EROSION CONTROL
 PLAN PH 1 ST 2

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 50'
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Project Number:	P170347

SHEET
C412

MATCHLINE 2 SEE SHEET C414

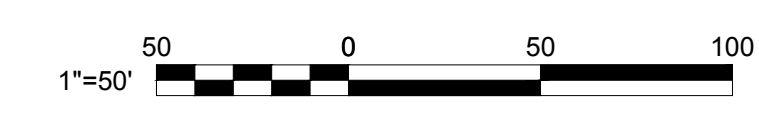
MATCHLINE 1 SEE SHEET C411

MATCHLINE 3 SEE SHEET C203

BAT PROPERTIES, LLC
 1. PIN# 1769243276
 2. PIN# 1001 2A00

DANIEL A. GINNY, L.P.
 PIN# 1763
 DB 10384 ZONE

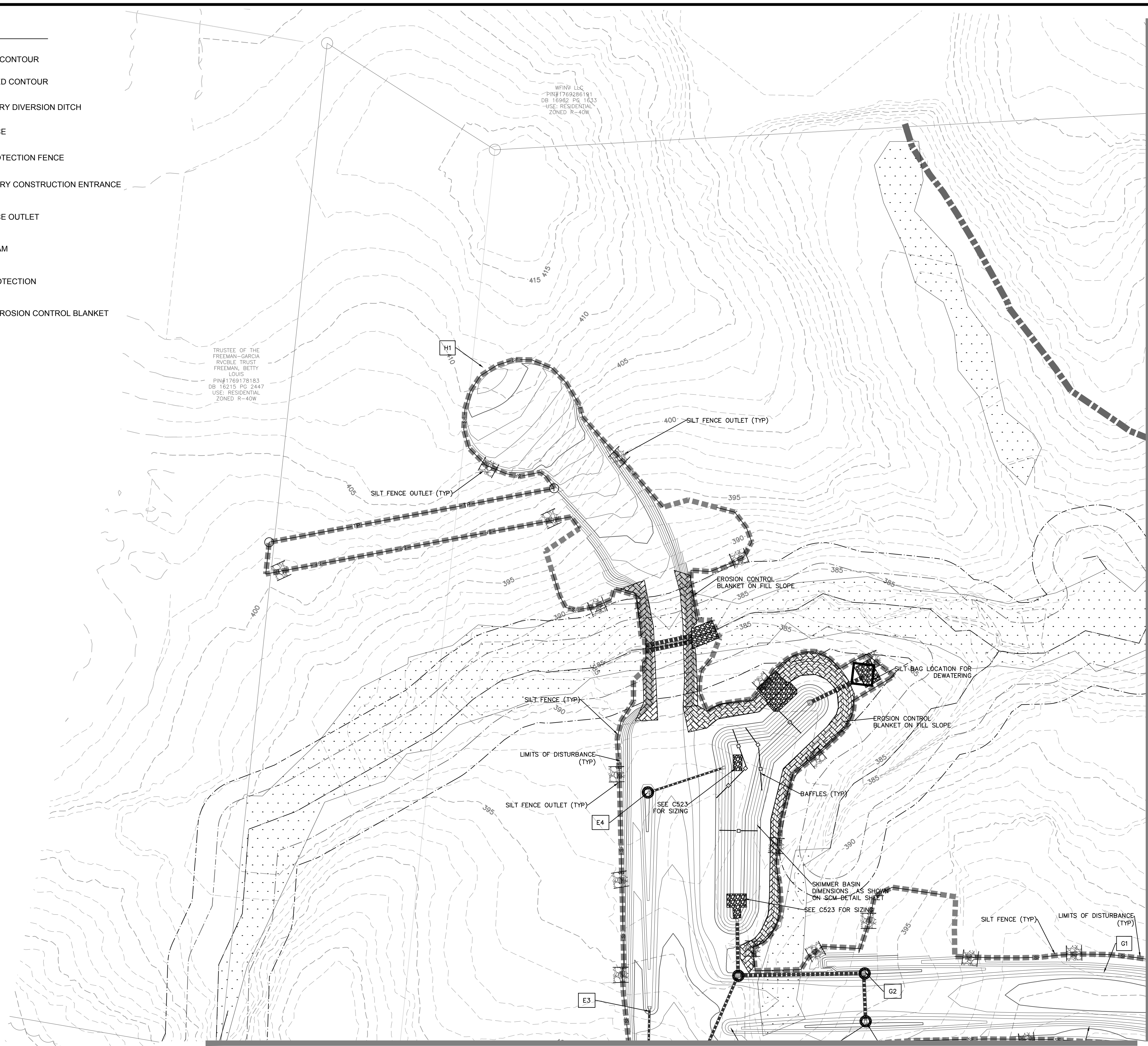
CAROLE A. & CHERRY L. F.
 11010 F.
 USE/RESID ZONED



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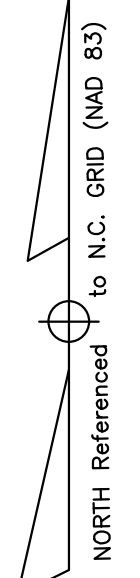
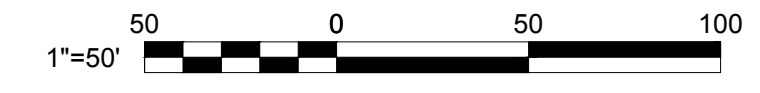


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MATCHLINE 2 SEE SHEET C414

MATCHLINE 3 SEE SHEET C412



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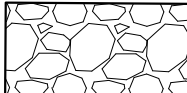
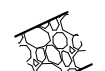



CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION
 410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY

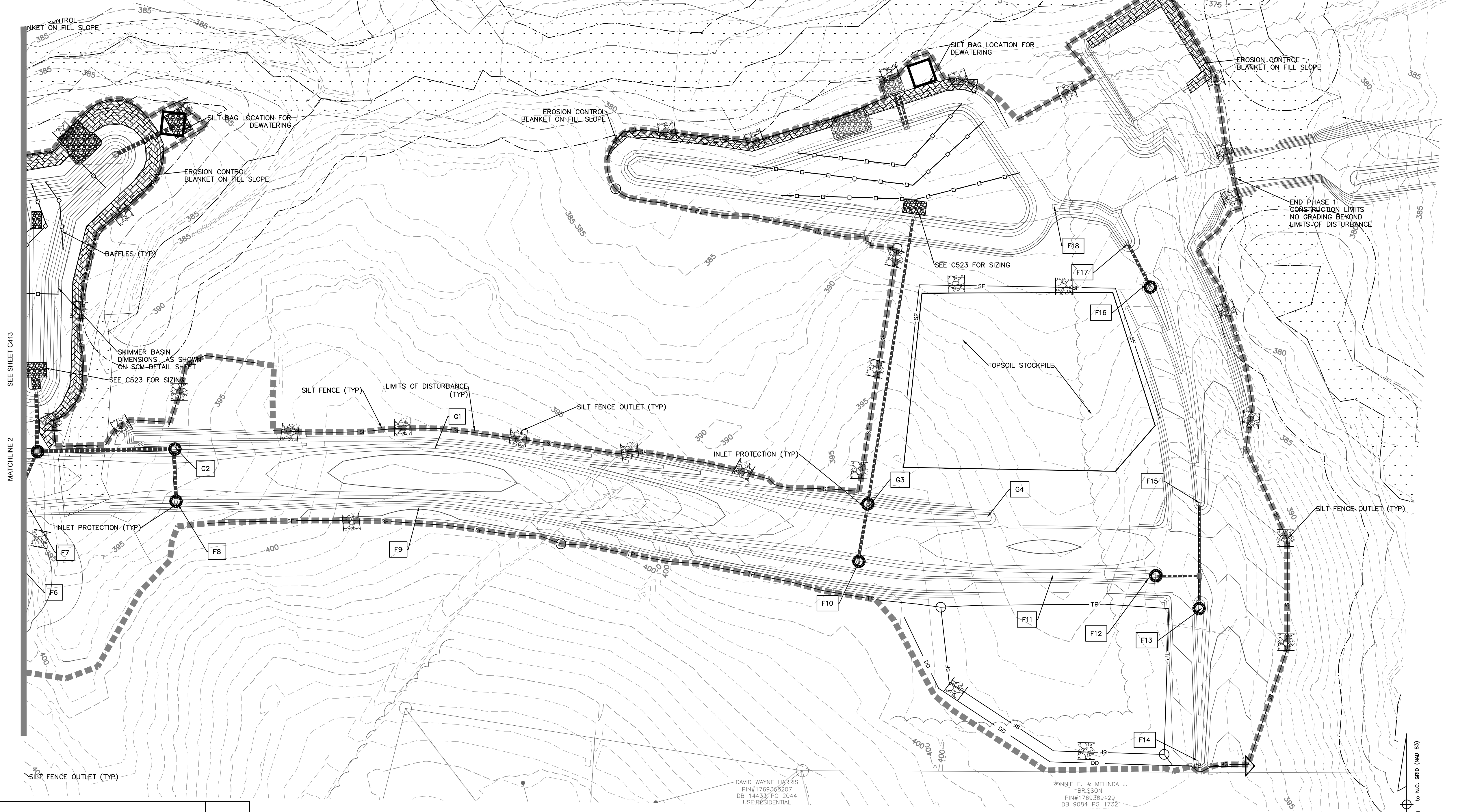
EROSION CONTROL
 PLAN PH 1 ST 2

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DAVID WAYNE HARRIS
PIN# 1769369507
DB 14433/PG 2044
USER:RESIDENTIAL

RONNIE E. & MELINDA J. "BRISSON"
PIN# 1769369429
DB 9084/PG 1732



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CHANDLER'S RIDGE
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CONSERVATION SUBDIVISION
410 W. YOUNG ST.
ROLESVILLE, NC
WAKE COUNTY

EROSION CONTROL
PLAN PH 1 ST 2

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ADMIXTURES
 AGRICULTURAL LIMESTONE: 2 TONS/ACRE
 FERTILIZER: 1,000 LBS/ACRE - 10-10-10
 SUPERPHOSPHATE: 500 LBS/ACRE - 20% ANALYSIS
 MULCH: 2 TONS/ACRE - SMALL GRAIN STRAW
 ANCHOR: ASPHALT EMULSION AT 300 GALS/ACRE



NORTH
 to N.C. GRID (NAD 83)

DISTURBED AREA SUMMARY

		ADDITIONAL DISTURBED AREA
PHASE 1	1,108,465 SF / 25.45 AC.	71,252 SF / 1.64 AC.
PHASE 2	405,574 SF / 9.31 AC.	27,179 SF / 0.62 AC.
TOTAL	1,514,039 SF / 34.76 AC.	98,431 SF / 2.26 AC.

AVERETTE ROAD - NCSR 0945 (60' PUBLIC R.O.W.)
 USE: CEMETERY
 LAND PURCHASED FROM ADJACENT

STOCKPILE MAINTENANCE NOTES:

- SEEDING OR COVERING STOCKPILES WITH TARPS OR MULCH IS REQUIRED AND WILL REDUCE EROSION PROBLEMS. TARPS SHOULD BE KEPT IN AT THE TOP OF THE SLOPE TO KEEP WATER FROM RUNNING UNDERNEATH THE PLASTIC.
- IF A STOCKPILE IS TO REMAIN FOR FUTURE USE AFTER THE PROJECT IS COMPLETE (BUILDERS, ETC.), THE FINANCIALLY RESPONSIBLE PARTY MUST NOTIFY WAKE COUNTY OF A NEW RESPONSIBLE PARTY FOR THAT STOCKPILE.
- THE APPROVED PLAN SHALL PROVIDE FOR THE USE OF STAGES SEEDING AND MULCHING ON A CONTINUAL BASIS WHILE STOCKPILE IS IN USE.
- ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL).

TREE PROTECTION NOTES:

- TREE PROTECTION FENCING MUST BE IN PLACE PRIOR TO ANY DEMOLITION, LAND DISTURBANCE OR ISSUANCE OF A GRADING PERMIT, OR OBTAIN A GRADING PERMIT THEN TREE PROTECTION FENCING MUST BE IN PLACE PRIOR TO ANY DEMOLITION, LAND DISTURBANCE.
- TREE PROTECTION FENCING SHALL INCLUDE WARNING SIGNS POSTED IN BOTH ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESPASSING/TREE PROTECTION AREA/PROHIBIDO ENTRAR / ZONA PROTECTORA PARA LOS ARBOLES."
- PROTECTION OF EXISTING VEGETATION: AT THE START OF GRADING INVOLVING THE LOWERING OF EXISTING GRADE AROUND A TREE OR STRIPPING OF TOPSOIL, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE ON THE TREE ROOTS OUTSIDE OF THE TREE SAVE AREA. THIS SHALL OCCUR AT THE SAME TIME THAT OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE.
- NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED TREE AREA.
- TREE PROTECTION AREA: EQUALS ONE FOOT OF RADIUS FOR EVERY INCH OF DIAMETER OF EXISTING TREES, OR SIX FOOT RADIUS, WHICHEVER IS GREATER. NO DISTURBANCE ALLOWED WITHIN THIS AREA.

SEEDBED PREPARATION:

- CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONED, IF AVAILABLE.
- RIP THE ENTIRE AREA TO 6 INCHES DEPTH.
- REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
- APPLY ALL AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE BELOW).
- CONTINUE TILLAGE UNTIL A WELL PULVERIZED, FIRM, REASONABLY UNIFORM 4 TO 6 INCHES DEEP SEEDBED IS PREPARED.
- SEED ON A FRESHLY PREPARED SEED BED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULPACK AFTER SEEDING.
- MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
- INSPECT ALL SEEDBED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDING WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE OVER 60% DAMAGED, REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
- INSPECT ALL SEEDBED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDING WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE MORE THAN 60% DAMAGED, RE-ESTABLISH FOLLOWING THE ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
- SEE LANDSCAPING PLANS FOR PERMANENT SEEDING, MULCHING, AND FERTILIZING RATES. ALL AREAS NOT DESIGNATED TO RECEIVE PLANTS SHALL BE SEEDED PER THE LANDSCAPING PLANS.

WAKE COUNTY BASIN REMOVAL SEQUENCE:

- SCHEDULE A SITE MEETING WITH THE ENVIRONMENT ENGINEER/CONSULTANT TO DETERMINE IF A BASIN CAN BE REMOVED. INSTALL SILT FENCE OR OTHER TEMPORARY EROSION CONTROL MEASURES AS NEEDED PRIOR TO REMOVAL OF THE BASIN.
- REMOVE BASIN(S) AND ASSOCIATED TEMPORARY DIVERSION DITCHES. IF CULVERT PIPES NEED TO BE EXTENDED, PERFORM THIS OPERATION AT THIS TIME. FINE GRADE AREA IN PREPARATION FOR SEEDING.
- PERFORM SEEDBED PREPARATION, SEED, MULCH, AND ASPHALT TACK ANY RESULTING BARE AREAS IMMEDIATELY.
- INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
- WHEN SITE IS FULLY STABILIZED, CALL ENVIRONMENTAL ENGINEER/CONSULTANT FOR APPROVAL OF REMOVING REMAINING TEMPORARY EROSION CONTROL MEASURES AND ADVISE ON WHEN SITE CAN BE ISSUED A CERTIFICATE OF COMPLETION.

TEMPORARY SEEDBED PREPARATION:

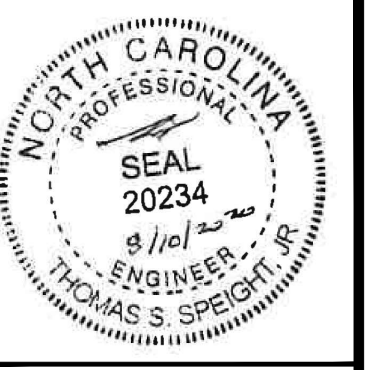
- CHISEL COMPACTED AREAS AND SPREAD TOPSOIL THREE INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
- RIP THE ENTIRE AREA TO SIX INCHES DEEP.
- REMOVE ALL LOOSE ROCK, ROOTS AND OTHER OBSTRUCTIONS, LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
- APPLY AGRICULTURAL LIME, FERTILIZER AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE ADMIXTURE BELOW).
- CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED FOUR TO SIX INCHES DEEP.
- SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULPACK AFTER SEEDING.
- MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
- INSPECT ALL SEEDBED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE MORE THAN 60% DAMAGED, RE-ESTABLISH FOLLOWING THE ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
- CONSULT WAKE COUNTY EROSION & SEDIMENT CONTROL DEPARTMENT ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

EROSION CONTROL NOTES:

- REFER TO C300 FOR GENERAL NOTES.
- ALL EROSION CONTROL MEASURES SHALL BE INSTALLED IN BEST LOCATION BASED ON FIELD CONDITIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF CONSTRUCTION ENTRANCES AS NECESSARY TO PREVENT THE TRACKING OF SEDIMENT OFF-SITE. THE OWNER IS RESPONSIBLE FOR MAINTENANCE OF ALL PERMANENT EROSION CONTROL METHODS AFTER CONSTRUCTION IS COMPLETE, IF ANY PERMANENT METHODS ARE REQUIRED.
- APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
- THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR AND ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
- DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE LIMITS OF DISTURBANCE (L.O.D.) SHALL BE PERMITTED. THE L.O.D. SHALL BE MAINTAINED BY THE ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
- THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
- THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.).
- THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE DURATION OF THE PROJECT. COPIES OF THE WRITTEN INSPECTION REPORTS SHALL BE PROVIDED TO THE OWNER'S REPRESENTATIVE TWICE PER WEEK AND AFTER RAINS OF GREATER THAN 0.5" RAIN GAUGE REQUIRED ON SITE.
- ANY AREAS OF EXPOSED SOILS THAT WILL NOT BE DISTURBED FOR FOURTEEN DAYS SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
- THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN FORTY EIGHT (48) HOURS FOLLOWING A STORM EVENT.
- AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- STABILIZED CONSTRUCTION ENTRANCES AND ROADS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE A MINIMUM THICKNESS OF 2 TO 3 INCHES.
- INTERIM SLOPES MAY BE GRADED TO A MAXIMUM SLOPE OF 2:1 (HORIZONTAL: VERTICAL); CUT SLOPES SHALL BE LIMITED TO A MAXIMUM SLOPE OF 1.5:1.
- THE SURFACE OF AREAS SLOPES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL THAT ARE TO RECEIVE INTERIM FILL SHALL BE PLOWED, FURROWED, TILLED OR BROKEN UP PRIOR TO PLACING FILL SO THAT FILL MATERIAL WILL BOND WITH EXISTING SURFACE. INTERIM FILL SHALL BE PLACED AS SPECIFIED FOR PERMANENT FILLS AND IN LIFTS NOT GREATER THAN 6".
- PROVIDE DUST CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO, WETTING DOWN TO CONTROL DUST ON SITE, IN ORDER TO PREVENT ANNOYANCE/AND OR DAMAGE TO ADJACENT SITES. CALCIUM CHLORIDE OR ANY OTHER CHEMICAL MATERIAL MAY NOT BE USED ON SUBGRADES OF AREAS TO BE SEEDED OR PLANTED.
- SEDIMENT LADEN RUNOFF FROM EXCAVATIONS SHALL NOT BE PUMPED DIRECTLY TO STORM DRAINAGE.
- INSPECTOR REFERS TO LOCAL JURISDICTIONAL (NCDENR OR LOCAL) LAND QUALITY INSPECTOR OR HIS REPRESENTATIVE. FIELD INSPECTIONS MAY REQUIRE ADDITIONAL SEDIMENTATION AND EROSION CONTROL MEASURES AS DEEMED NECESSARY BY THE INSPECTOR.
- CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL DEVICES SHALL CONFORM TO THE STANDARDS SET FORTH IN THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES LAND QUALITY SECTION EROSION AND SEDIMENT CONTROL PLANNING LAND DESIGN MANUAL.
- NOTIFICATION OF LAND RESOURCES SEDIMENT AND EROSION CONTROL SELF-INSPECTION PROGRAM: THE PERSON RESPONSIBLE FOR LAND-DISTURBING ACTIVITIES IS REQUIRED TO INSPECT THE PROJECT AFTER EACH PHASE OF THE PROJECT AND CONTINUED UNTIL PERMANENT GROUND COVER IS ESTABLISHED IN ACCORDANCE WITH NCGS 113A-54.1 AND 15A NCGS 48.0131 TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. THE SELF-INSPECTION REPORT FORM IS AVAILABLE AS AN EXCEL SPREADSHEET FORM [HTTP://WWW.DLR.ENR.STATE.NC.US/PAGES/SEDIMENTATION_NEW.HTM](http://www.dlr.enr.state.nc.us/PAGES/SEDIMENTATION_NEW.HTM)
- COMPLIANCE WITH THE STATE NCG01 SELF-INSPECTION PROGRAM IS REQUIRED FOR THIS SITE.

P:\2017 Projects\170347 Chander's Ridge\Eng\CADD\DWG\TP SHEET_170347_C420_EROSION_CONTROL.dwg

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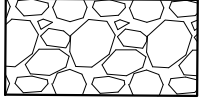




CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
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OVERALL EROSION
 CONTROL PLAN PH 2 ST 1

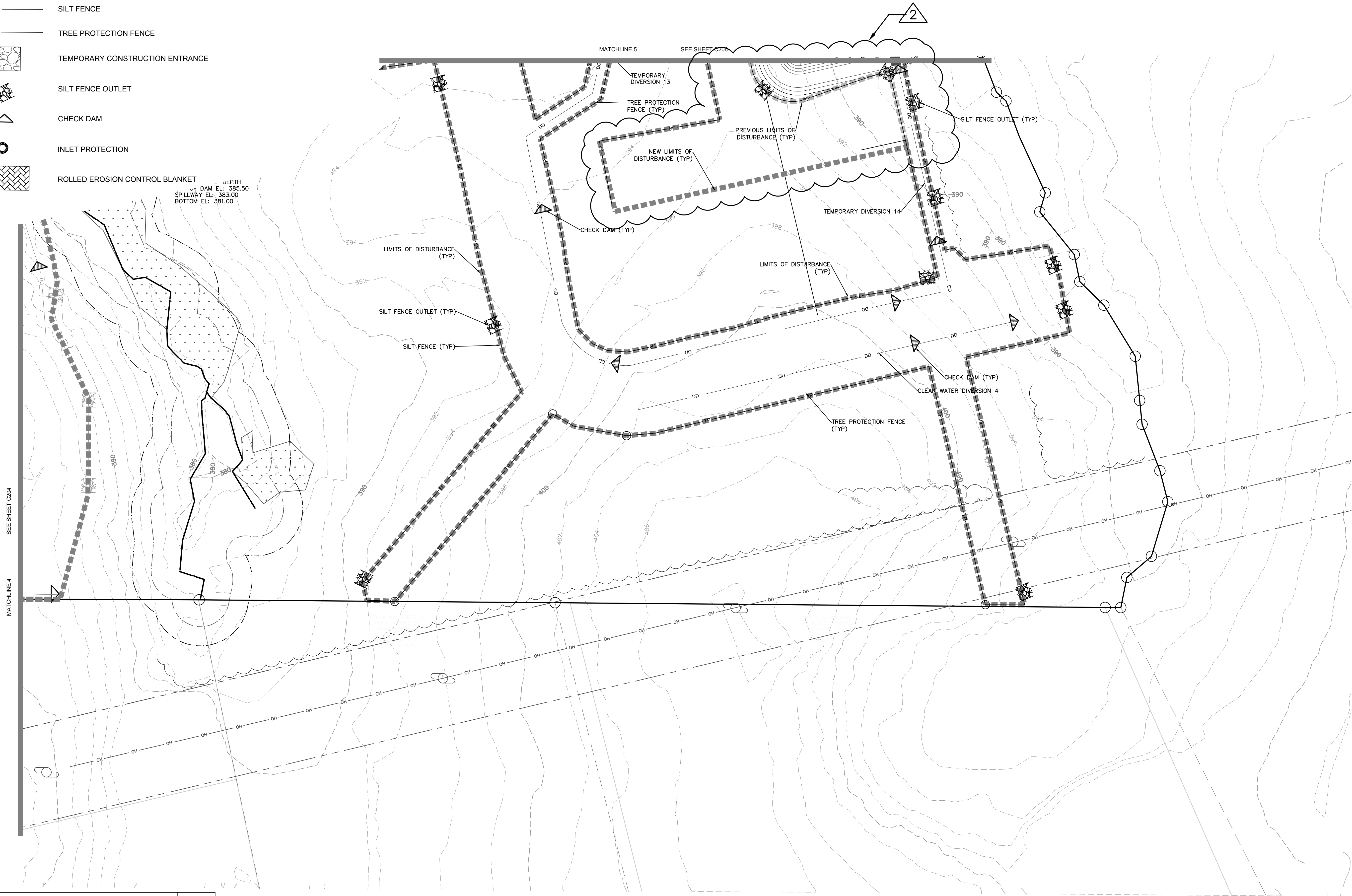
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SHEET	
C420	

DIVERSION DITCH LINER SUMMARY - Chandler's Ridge													
Temporary Diversion #	Total Area (ac)	Total Length	Begin Elevation	End Elevation	Δ Elevation	Tc	Slope	C	Intensity	Q	Depth	Shear	Liner
Phase 2 Stage 1 Diversions													
13	2.20	850	400.0	394.0	6.0	9.48	0.007	0.5	7.22	7.93	0.82	0.36	Straw w/ Net
14	0.98	440	400.0	394.0	6.0	4.43	0.014	0.5	7.22	3.54	0.55	0.47	Straw w/ Net
CW 5	1.02	405	402.0	391.0	11.0	3.19	0.027	0.5	7.22	3.70	0.49	0.83	Straw w/ Net

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DEPTH OF DAM EL: 385.50
 SPILLWAY EL: 383.00
 BOTTOM EL: 381.00



P:\2017 Projects\170347 Chandler's Ridge\Eng\CADD\DWG\TP SHEET\TP_170347_C422_EROSION_CONTROL.dwg

REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
02	CONSTRUCTION DOCUMENTS 2ND SUBMITTAL	08/14/2020
01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020



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 Phone: 919.577.1080 Fax: 919.577.1081
 NCBELS FIRM No. C-2378








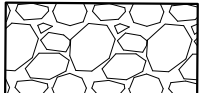




CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION
 410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY

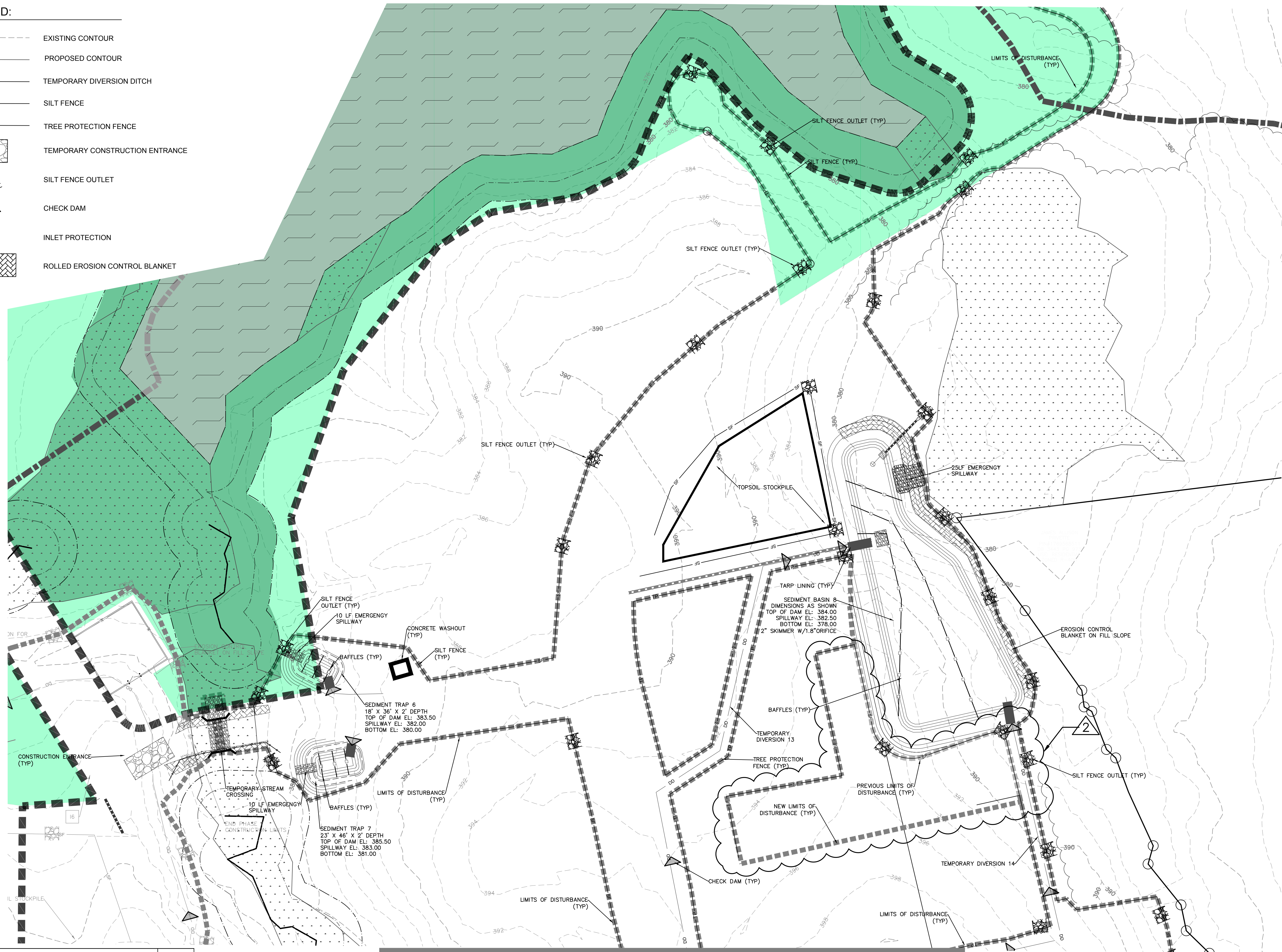
EROSION CONTROL
 PLAN PH 2 ST 1

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 50'
Date:	09/08/2020
Project Number:	P170347

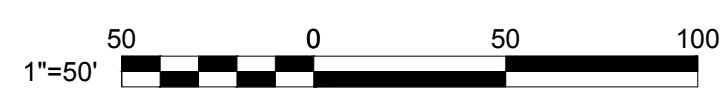
SHEET
C422

LEGEND:

-  EXISTING CONTOUR
-  PROPOSED CONTOUR
-  TEMPORARY DIVERSION DITCH
-  SILT FENCE
-  TREE PROTECTION FENCE
-  TEMPORARY CONSTRUCTION ENTRANCE
-  SILT FENCE OUTLET
-  CHECK DAM
-  INLET PROTECTION
-  ROLLED EROSION CONTROL BLANKET



MATCHLINE 5 SEE SHEET C205



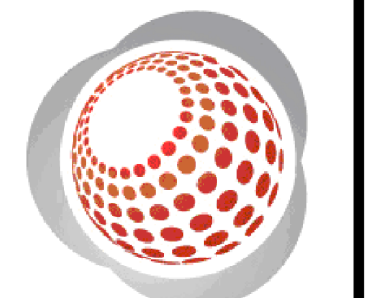
NORTH Referenced to N.C. GRID (NAD 83)

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REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
02	CONSTRUCTION DOCUMENTS 2ND SUBMITTAL	08/14/2020
01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020
	REVISIONS	



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 NCBELS FIRM No. C-2378






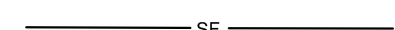

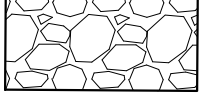




CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION
 410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY

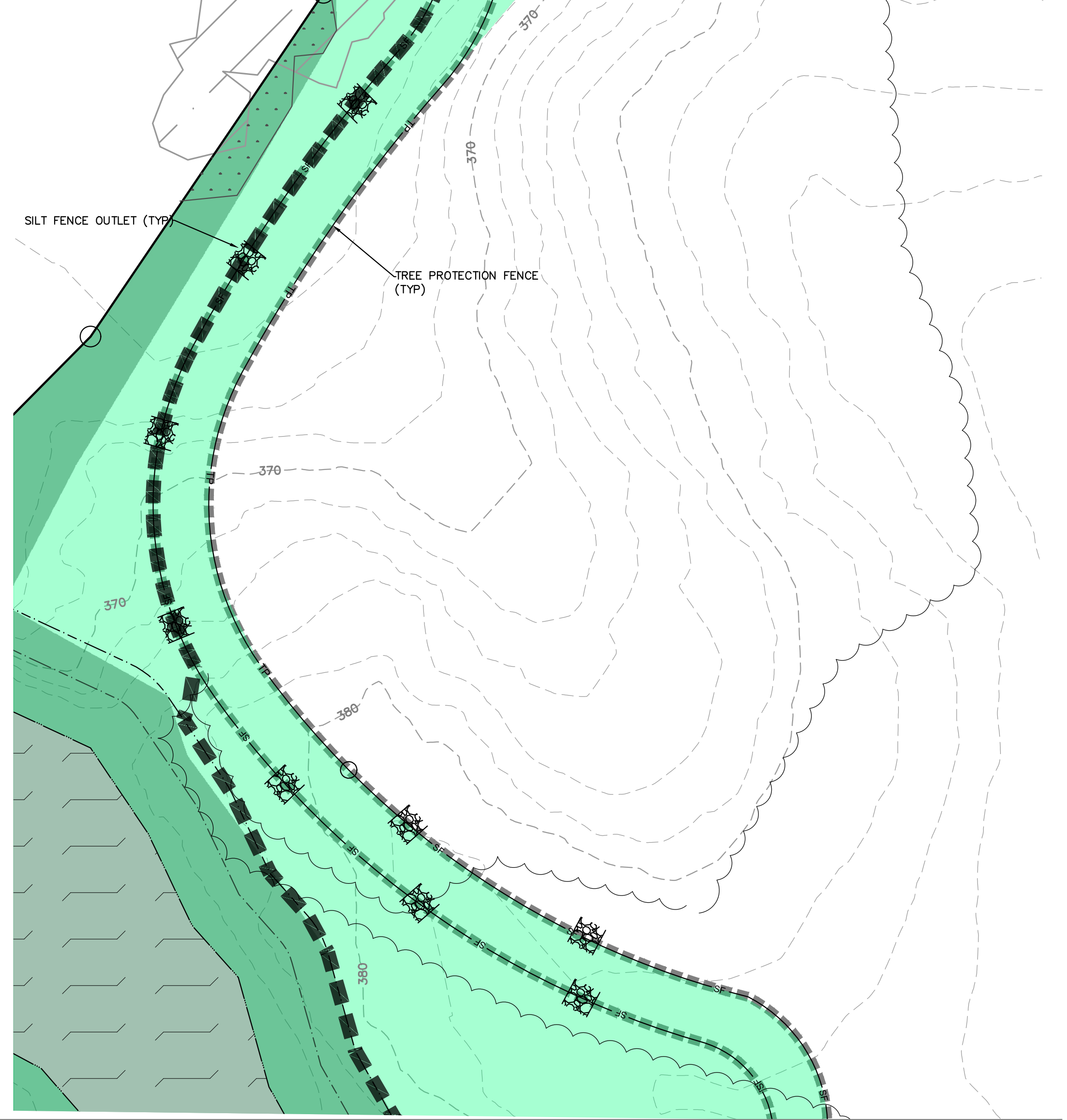
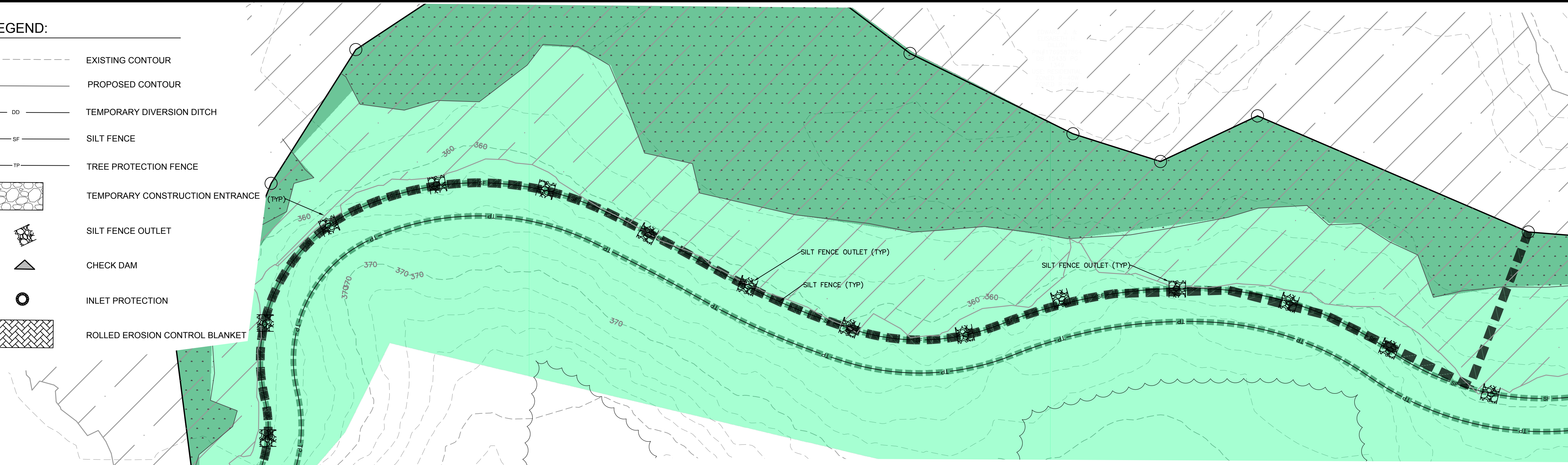
EROSION CONTROL
 PLAN PH 2 ST 1

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 50'
Date:	09/08/2020
Project Number:	P170347

SHEET
C423

LEGEND:

-  EXISTING CONTOUR
-  PROPOSED CONTOUR
-  TEMPORARY DIVERSION DITCH
-  SILT FENCE
-  TREE PROTECTION FENCE
-  TEMPORARY CONSTRUCTION ENTRANCE
-  SILT FENCE OUTLET
-  CHECK DAM
-  INLET PROTECTION
-  ROLLED EROSION CONTROL BLANKET



SEE SHEET C205
MATCHLINE 5

SEE SHEET C205
MATCHLINE 5

MATCHLINE 5
SEE SHEET C205

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REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
02	CONSTRUCTION DOCUMENTS 2ND SUBMITTAL	08/14/2020
01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020
	REVISIONS	



NORTH
Referenced to N.C. GRID (NAD 83)



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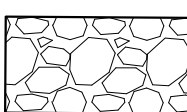




CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION
 410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY

EROSION CONTROL
 PLAN PH 2 ST 1

Project Engineer: TSS
 Designed By: TEP
 Drawn By: TEP
 Checked By: TSS
 Scale: 1" = 50'
 Date: 09/08/2020
 Project Number: P170347

SHEET
C424

LEGEND:

-  EXISTING CONTOUR
-  PROPOSED CONTOUR
-  TEMPORARY DIVERSION DITCH
-  SILT FENCE
-  TREE PROTECTION FENCE
-  TEMPORARY CONSTRUCTION ENTRANCE
-  SILT FENCE OUTLET
-  CHECK DAM
-  INLET PROTECTION
-  ROLLED EROSION CONTROL BLANKET



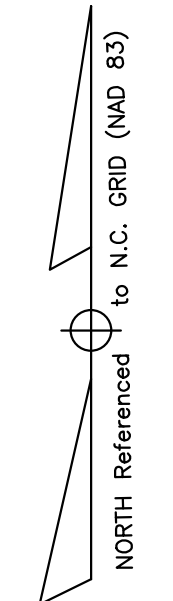
PERMANENT DITCH LINER

DITCH	SECTION		DRAINAGE AREA (ACRES)	C	Q [CFS]	SLOPE [FT/FT]	NORMAL DEPTH [FT]	SHEAR STRESS [LBS/SF]	LINING
	FROM	TO							
K	K1	K2	0.71	0.65	3.32	0.010	0.41	0.26	Straw w/ Net
	K2	K3	2.04	0.65	9.59	0.010	0.69	0.43	Straw w/ Net
	K4	K5	2.24	0.65	10.51	0.009	0.72	0.40	Straw w/ Net
	K6	K5	0.58	0.65	2.74	0.014	0.34	0.30	Straw w/ Net
	K7	K8	0.42	0.65	1.98	0.014	0.28	0.24	Straw w/ Net
	K9	K8	2.14	0.65	10.03	0.010	0.71	0.44	Straw w/ Net
	K9	K10	0.81	0.65	3.80	0.010	0.44	0.27	Straw w/ Net

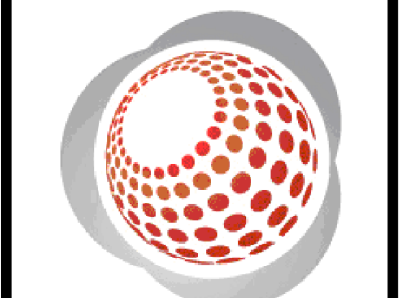
STREAM CROSSING CONSTRUCTION SEQUENCE:

1. KEEP CLEARING AND EXCAVATION OF THE STREAM BANKS AND BED AND APPROACH SECTIONS TO A MINIMUM.
2. DIVERT ALL SURFACE WATER FROM THE CONSTRUCTION SITE ONTO UNDISTURBED AREAS ADJOINING THE STREAM. LINE UNSTABLE STREAM BANKS WITH RIPRAP OR OTHERWISE APPROPRIATELY STABILIZE THEM.
3. CONSTRUCTION OF STREAM CULVERT SHALL BE COMPLETED IN 48 HOURS OF DRY WEATHER.
4. ENSURE BYPASS CHANNELS, IF USING TO DEWATER THE CROSSING SITE, ARE STABLE BEFORE DIVERTING THE STREAM. UPON COMPLETION OF THE CROSSING, FILL, COMPACT AND STABILIZE THE BYPASS CHANNEL APPROPRIATELY. PUMP AROUND MAY BE USED INSTEAD OF BYPASS CHANNEL AND MUST BE IN PLACE AS SHOWN IN DETAIL PRIOR TO DEWATERING THE CROSSING SITE.
5. PLACE FILL AND INSTALL PROTECTIVE GROUND COVER TO PROVIDE PERMANENT EROSION PROTECTION.
6. ENSURE THAT PERMANENT MEASURES NEEDED TO CONTROL EROSION FROM ROAD WATER RUNOFF MEET ALL CONSTRUCTION REQUIREMENTS FOR THOSE PRACTICES.
7. INSPECT STREAM CROSSINGS PERIODICALLY AND AFTER MAJOR STORMS TO CHECK FOR CHANNEL BLOCKAGE, EROSION OF ABUTMENTS, CHANNEL DEGRADATION, RIPRAP DISPLACEMENT, SLOPE FAILURE AND PIPING. MAKE ALL NEEDED REPAIRS IMMEDIATELY.

REV	DESCRIPTION	DATE
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REVISIONS		



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 NCBELS FIRM No. C-2378






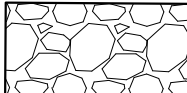






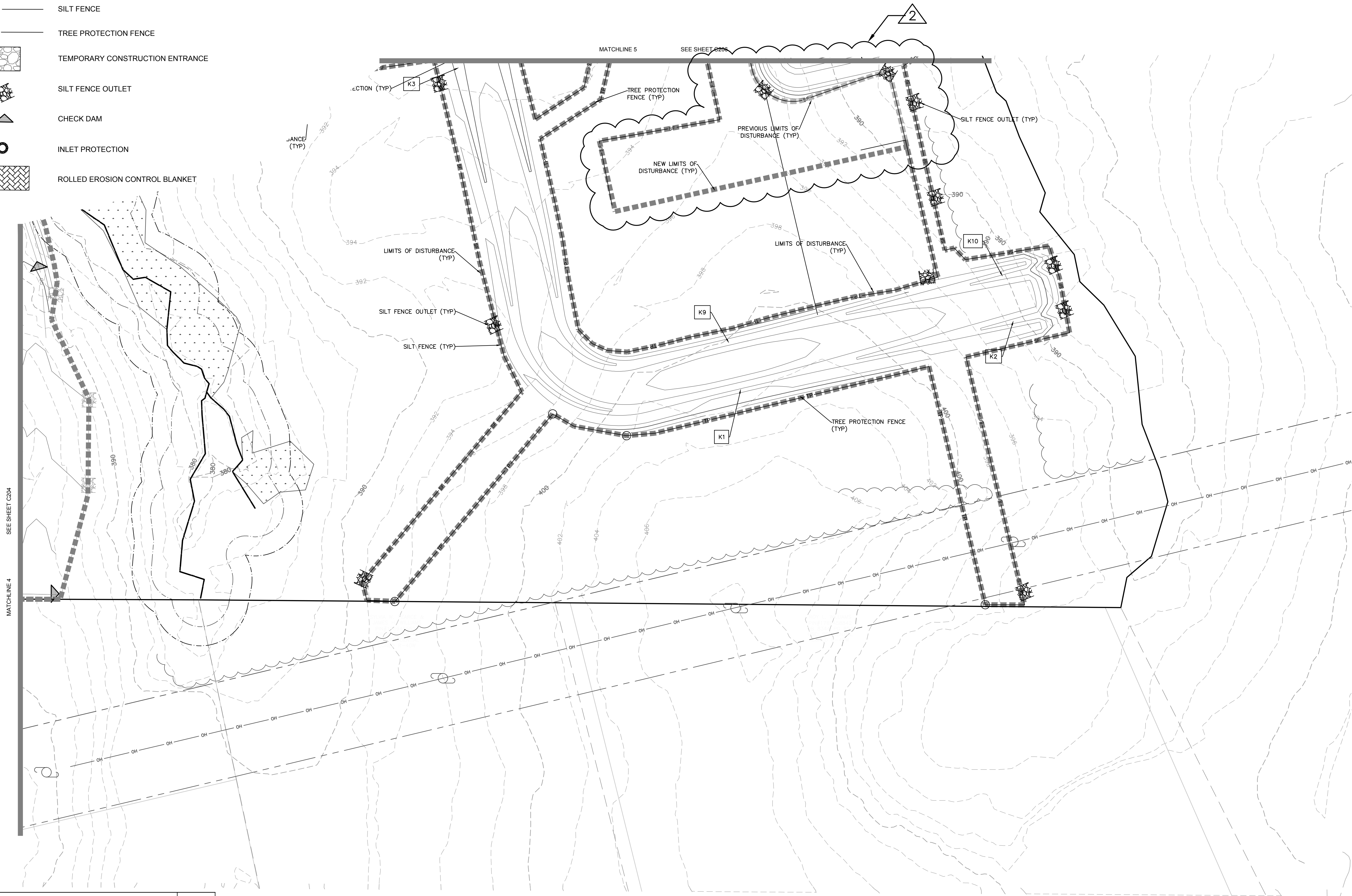
CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION
 410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY

OVERALL EROSION
CONTROL PLAN PH 2 ST 2

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 200'
Date:	09/08/2020
Project Number:	P170347
SHEET	
C430	

LEGEND:

-  EXISTING CONTOUR
-  PROPOSED CONTOUR
-  TEMPORARY DIVERSION DITCH
-  SILT FENCE
-  TREE PROTECTION FENCE
-  TEMPORARY CONSTRUCTION ENTRANCE
-  SILT FENCE OUTLET
-  CHECK DAM
-  INLET PROTECTION
-  ROLLED EROSION CONTROL BLANKET



REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
02	CONSTRUCTION DOCUMENTS 2ND SUBMITTAL	08/14/2020
01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020
	DESCRIPTION	DATE
	REVISIONS	



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 NCBELS FIRM No. C-2378



CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION
 410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY






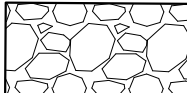




EROSION CONTROL
 PLAN PH 2 ST 2

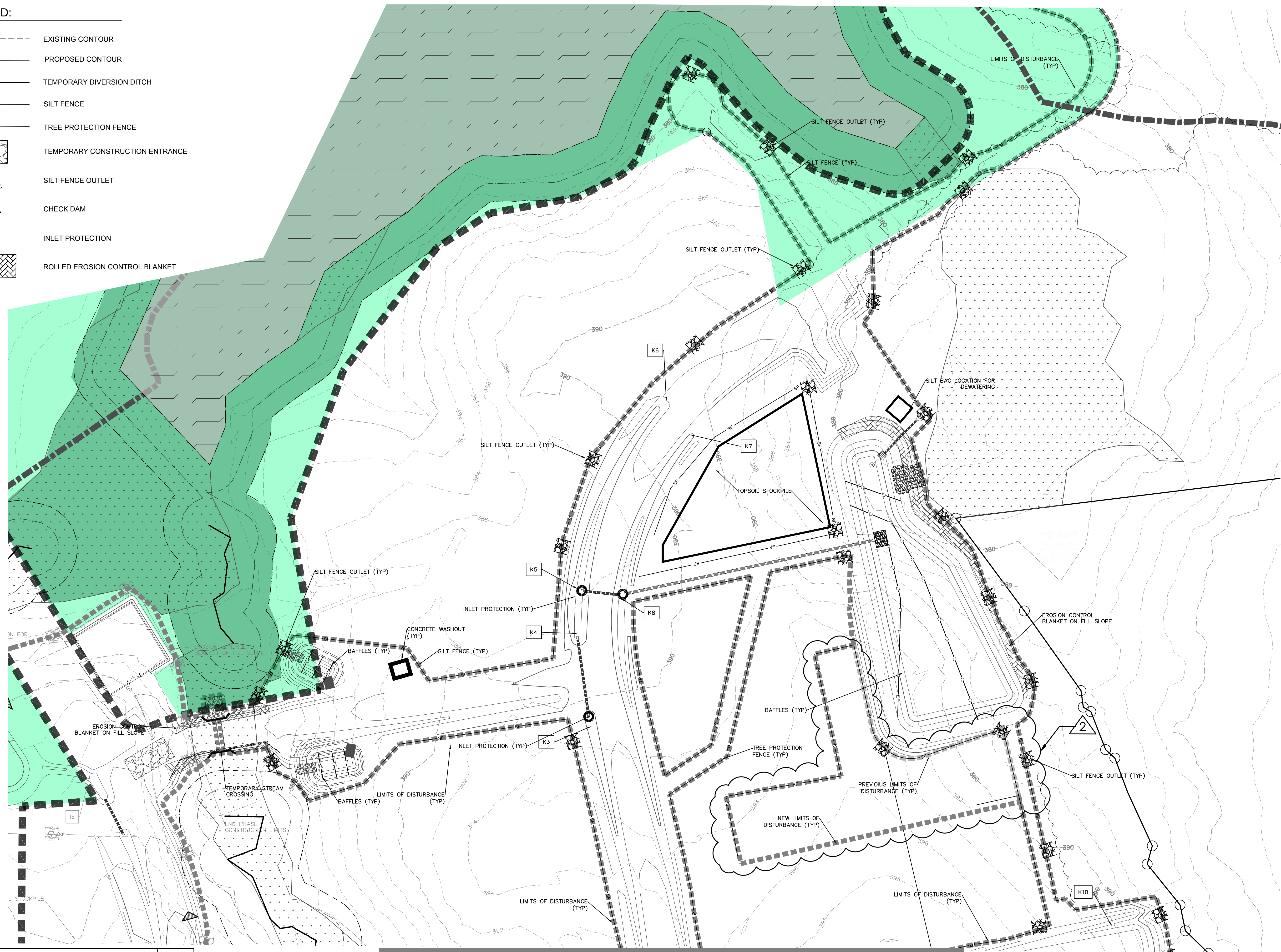
Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 50'
Date:	09/08/2020
Project Number:	P170347

SHEET
C432

P:\2017 Projects\170347 Chandler's Ridge\Eng\CADD\DWG\TP SHEET\TP_170347_C432_EROSION_CONTROL.dwg

LEGEND:

-  EXISTING CONTOUR
-  PROPOSED CONTOUR
-  TEMPORARY DIVERSION DITCH
-  SILT FENCE
-  TREE PROTECTION FENCE
-  TEMPORARY CONSTRUCTION ENTRANCE
-  SILT FENCE OUTLET
-  CHECK DAM
-  INLET PROTECTION
-  ROLLED EROSION CONTROL BLANKET



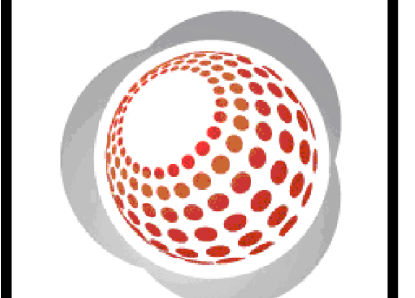
MATCHLINE 5 SEE SHEET C205

P:\2017 Projects\170347 Chandlers Ridge\Eng\CADD\DWG\TP SHEET\TP_170347_C430_EROSION_CONTROL.dwg

REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
02	CONSTRUCTION DOCUMENTS 2ND SUBMITTAL	08/14/2020
01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020
	DESCRIPTION	DATE
	REVISIONS	



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 NCBELS FIRM No. C-2378






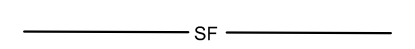
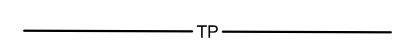
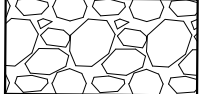

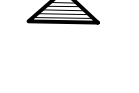


CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION
 410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY

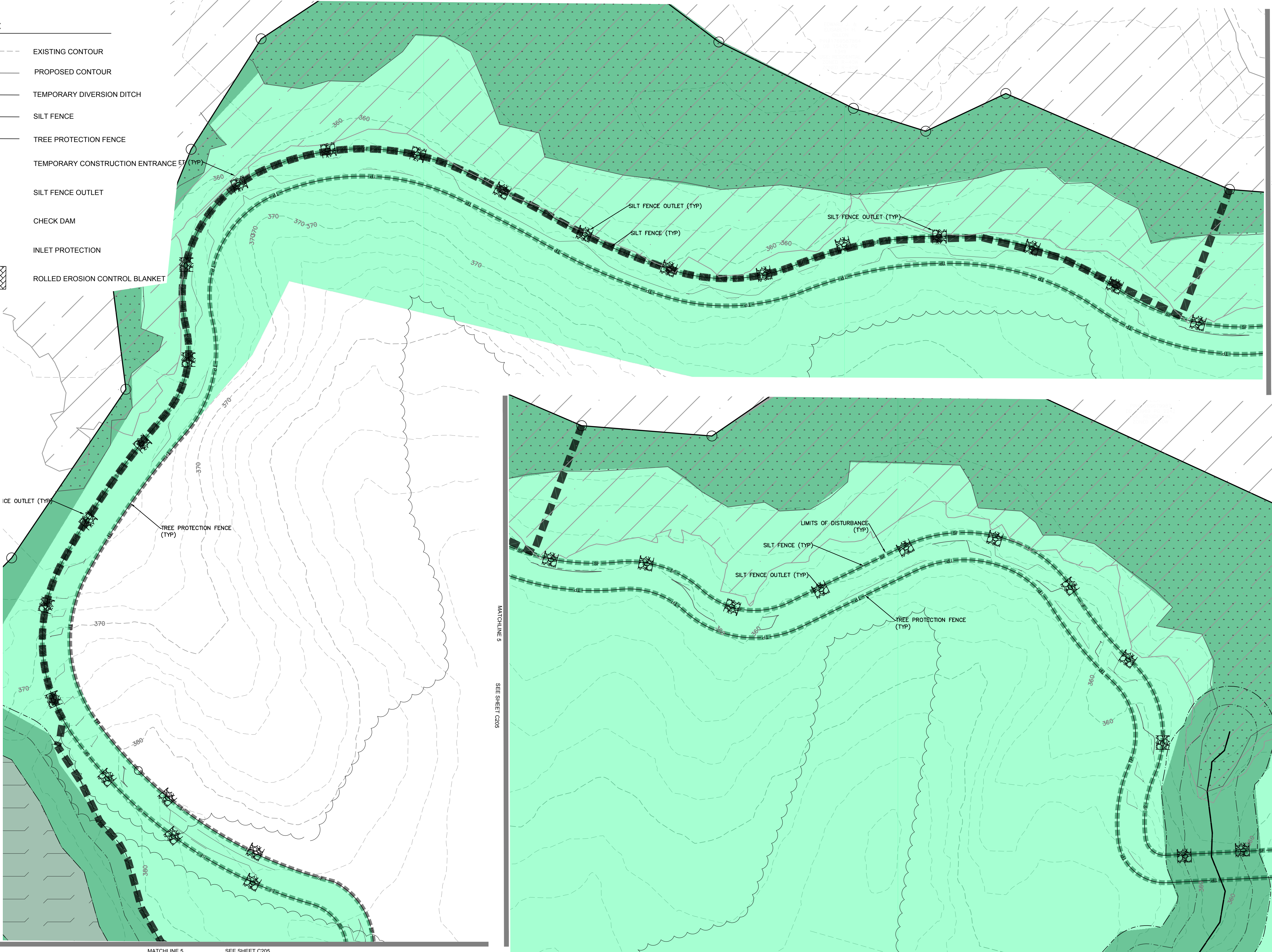
EROSION CONTROL
 PLAN PH 2 ST 2

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 50'
Date:	09/08/2020
Project Number:	P170347

SHEET
C433

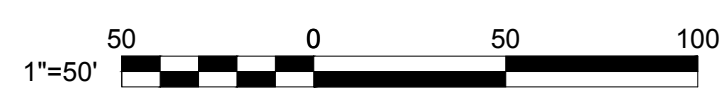
LEGEND:

-  EXISTING CONTOUR
-  PROPOSED CONTOUR
-  TEMPORARY DIVERSION DITCH
-  SILT FENCE
-  TREE PROTECTION FENCE
-  TEMPORARY CONSTRUCTION ENTRANCE ET (TYP)
-  SILT FENCE OUTLET
-  CHECK DAM
-  INLET PROTECTION
-  ROLLED EROSION CONTROL BLANKET



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REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
02	CONSTRUCTION DOCUMENTS 2ND SUBMITTAL	08/14/2020
01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020



NORTH Referenced to N.C. GRID (NAD 83)



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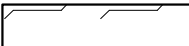
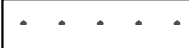



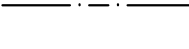


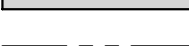


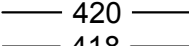

CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION
 410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY

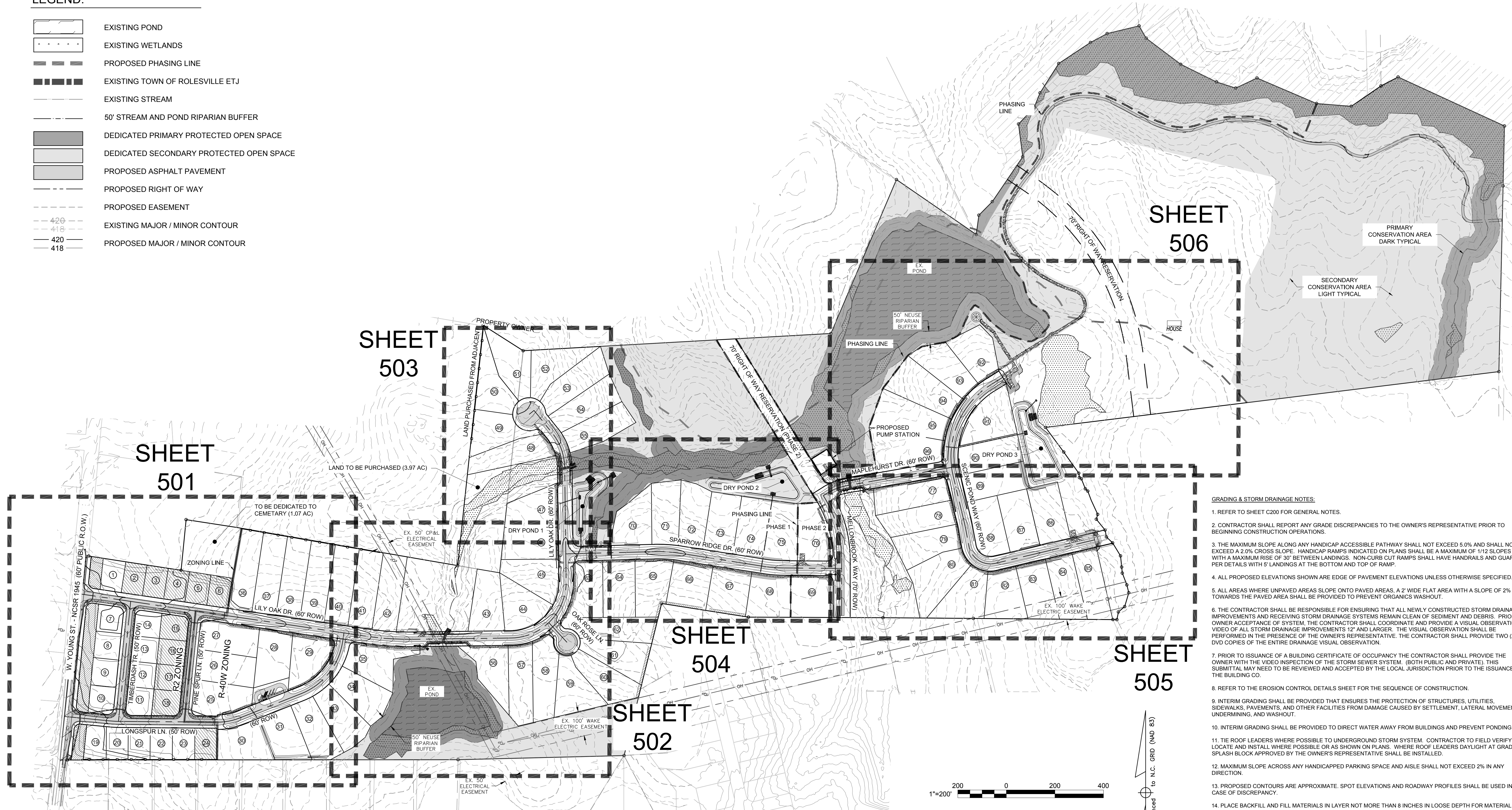
EROSION CONTROL
 PLAN PH 2 ST 2

Project Engineer: TSS
 Designed By: TEP
 Drawn By: TEP
 Checked By: TSS
 Scale: 1" = 50'
 Date: 09/08/2020
 Project Number: P170347

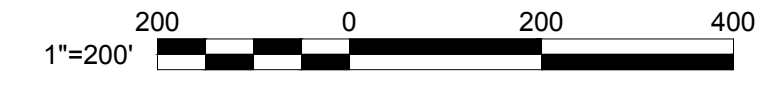
SHEET
C434

LEGEND:

-  EXISTING POND
-  EXISTING WETLANDS
-  PROPOSED PHASING LINE
-  EXISTING TOWN OF ROLESVILLE ETJ
-  EXISTING STREAM
-  50' STREAM AND POND RIPARIAN BUFFER
-  DEDICATED PRIMARY PROTECTED OPEN SPACE
-  DEDICATED SECONDARY PROTECTED OPEN SPACE
-  PROPOSED ASPHALT PAVEMENT
-  PROPOSED RIGHT OF WAY
-  PROPOSED EASEMENT
-  EXISTING MAJOR / MINOR CONTOUR
-  PROPOSED MAJOR / MINOR CONTOUR



- GRADING & STORM DRAINAGE NOTES:**
1. REFER TO SHEET C200 FOR GENERAL NOTES.
 2. CONTRACTOR SHALL REPORT ANY GRADE DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION OPERATIONS.
 3. THE MAXIMUM SLOPE ALONG ANY HANDICAP ACCESSIBLE PATHWAY SHALL NOT EXCEED 5.0% AND SHALL NOT EXCEED A 2.0% CROSS SLOPE. HANDICAP RAMPS INDICATED ON PLANS SHALL BE A MAXIMUM OF 1/12 SLOPES WITH A MAXIMUM RISE OF 30" BETWEEN LANDINGS. NON-CURB CUT RAMPS SHALL HAVE HANDRAILS AND GUARDS PER DETAILS WITH 5' LANDINGS AT THE BOTTOM AND TOP OF RAMP.
 4. ALL PROPOSED ELEVATIONS SHOWN ARE EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE SPECIFIED.
 5. ALL AREAS WHERE UNPAVED AREAS SLOPE ONTO PAVED AREAS, A 2' WIDE FLAT AREA WITH A SLOPE OF 2% TOWARDS THE PAVED AREA SHALL BE PROVIDED TO PREVENT ORGANICS WASHOUT.
 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL NEWLY CONSTRUCTED STORM DRAINAGE IMPROVEMENTS AND RECEIVING STORM DRAINAGE SYSTEMS REMAIN CLEAN OF SEDIMENT AND DEBRIS. PRIOR TO OWNER ACCEPTANCE OF SYSTEM, THE CONTRACTOR SHALL COORDINATE AND PROVIDE A VISUAL OBSERVATION VIDEO OF ALL STORM DRAINAGE IMPROVEMENTS 12" AND LARGER. THE VISUAL OBSERVATION SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE TWO (2) DVD COPIES OF THE ENTIRE DRAINAGE VISUAL OBSERVATION.
 7. PRIOR TO ISSUANCE OF A BUILDING CERTIFICATE OF OCCUPANCY THE CONTRACTOR SHALL PROVIDE THE OWNER WITH THE VIDEO INSPECTION OF THE STORM SEWER SYSTEM. (BOTH PUBLIC AND PRIVATE). THIS SUBMITTAL MAY NEED TO BE REVIEWED AND ACCEPTED BY THE LOCAL JURISDICTION PRIOR TO THE ISSUANCE OF THE BUILDING CO.
 8. REFER TO THE EROSION CONTROL DETAILS SHEET FOR THE SEQUENCE OF CONSTRUCTION.
 9. INTERIM GRADING SHALL BE PROVIDED THAT ENSURES THE PROTECTION OF STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, AND WASHOUT.
 10. INTERIM GRADING SHALL BE PROVIDED TO DIRECT WATER AWAY FROM BUILDINGS AND PREVENT PONDING.
 11. THE ROOF LEADERS WHERE POSSIBLE TO UNDERGROUND STORM SYSTEM. CONTRACTOR TO FIELD VERIFY LOCATE AND INSTALL WHERE POSSIBLE OR AS SHOWN ON PLANS. WHERE ROOF LEADERS DAYLIGHT AT GRADE A SPLASH BLOCK APPROVED BY THE OWNER'S REPRESENTATIVE SHALL BE INSTALLED.
 12. MAXIMUM SLOPE ACROSS ANY HANDICAPPED PARKING SPACE AND AISLE SHALL NOT EXCEED 2% IN ANY DIRECTION.
 13. PROPOSED CONTOURS ARE APPROXIMATE. SPOT ELEVATIONS AND ROADWAY PROFILES SHALL BE USED IN CASE OF DISCREPANCY.
 14. PLACE BACKFILL AND FILL MATERIALS IN LAYER NOT MORE THAN 8 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND OPERATED TAMPERS. PLACE BACKFILL AND FILL MATERIALS EVENLY ON ALL SIDES TO REQUIRED ELEVATIONS, AND UNIFORMLY ALONG THE FULL LENGTH OF EACH STRUCTURE. COMPACT SOIL TO NOT LESS THAN 95 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 698 FOR EACH LAYER OF BACKFILL OR FILL MATERIAL UP TO TWO FEET OF FINISHED GRADE. COMPACT SOIL TO NOT LESS THAN 98 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 698 FOR EACH LAYER OF BACKFILL OR FILL MATERIAL FOR THE FINAL TWO FEET.
 15. SITE GRADING IMMEDIATELY ADJACENT TO FOUNDATION OF BUILDING SHALL SLOPE NOT LESS THAN 1/20 AWAY FOR MINIMUM DISTANCE OF 10 FEET. ALTERNATIVE METHOD SHALL BE PROVIDED TO DIVERT WATER AWAY FROM FOUNDATION VIA SWALES SLOPED AT A MINIMUM OF 2% OR IMPERVIOUS SURFACES SLOPED AWAY A MINIMUM OF 2% AWAY FROM BUILDING.
 16. CONTRACTOR SHALL ADJUST RIM ELEVATIONS OF EXISTING MANHOLES, METERS, VALVES, ETC. AS REQUIRED TO MEET NEW FINISHED GRADES.
 17. CONTRACTOR SHALL SLOPE GRADES TO ASSURE POSITIVE STORMWATER FLOW TO KEEP WATER FROM POOLING ALONG CURBS AND WALLS.
 18. TOP OF WALL ELEVATIONS INDICATE THE ELEVATION AT THE TOP OF THE CAP, UNLESS OTHERWISE NOTED.
 19. BOTTOM OF WALL ELEVATIONS INDICATE THE ELEVATION OF THE FINISHED GRADE.
 20. WALLS GREATER THAN 4 FT. IN HEIGHT WILL REQUIRE ENGINEERING DESIGN APPROVAL.



NORTH
Referenced to N.C. GRID (NAD 83)

NOTE: 2' INTERVAL CONTOURS



Bateman Civil Survey Company
 Engineers • Surveyors • Planners
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 Phone: 919.577.1080 Fax: 919.577.1081
 NCBELS FIRM No. C-2378












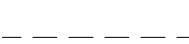

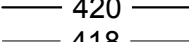

CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION

OVERALL
 GRADING PLAN

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 200'
Date:	09/08/2020
Project Number:	P170347
SHEET	
C500	

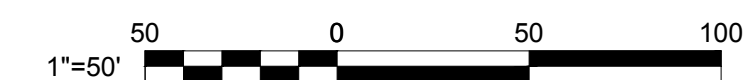
REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
02	CONSTRUCTION DOCUMENTS 2ND SUBMITTAL	08/14/2020
01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020
REV	DESCRIPTION	DATE
	REVISIONS	

LEGEND:

-  EXISTING POND
-  EXISTING WETLANDS
-  PROPOSED PHASING LINE
-  EXISTING TOWN OF ROLESVILLE ETJ
-  EXISTING STREAM
-  50' STREAM AND POND RIPARIAN BUFFER
-  DEDICATED PRIMARY PROTECTED OPEN SPACE
-  DEDICATED SECONDARY PROTECTED OPEN SPACE
-  PROPOSED ASPHALT PAVEMENT
-  PROPOSED RIGHT OF WAY
-  PROPOSED EASEMENT
-  EXISTING MAJOR / MINOR CONTOUR
-  PROPOSED MAJOR / MINOR CONTOUR



NOTE: 1' INTERVAL CONTOURS

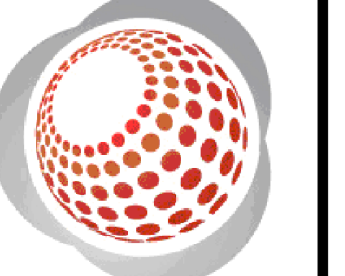


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REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
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	REVISIONS	



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SEE SHEET C502

MATCHLINE 1

CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION

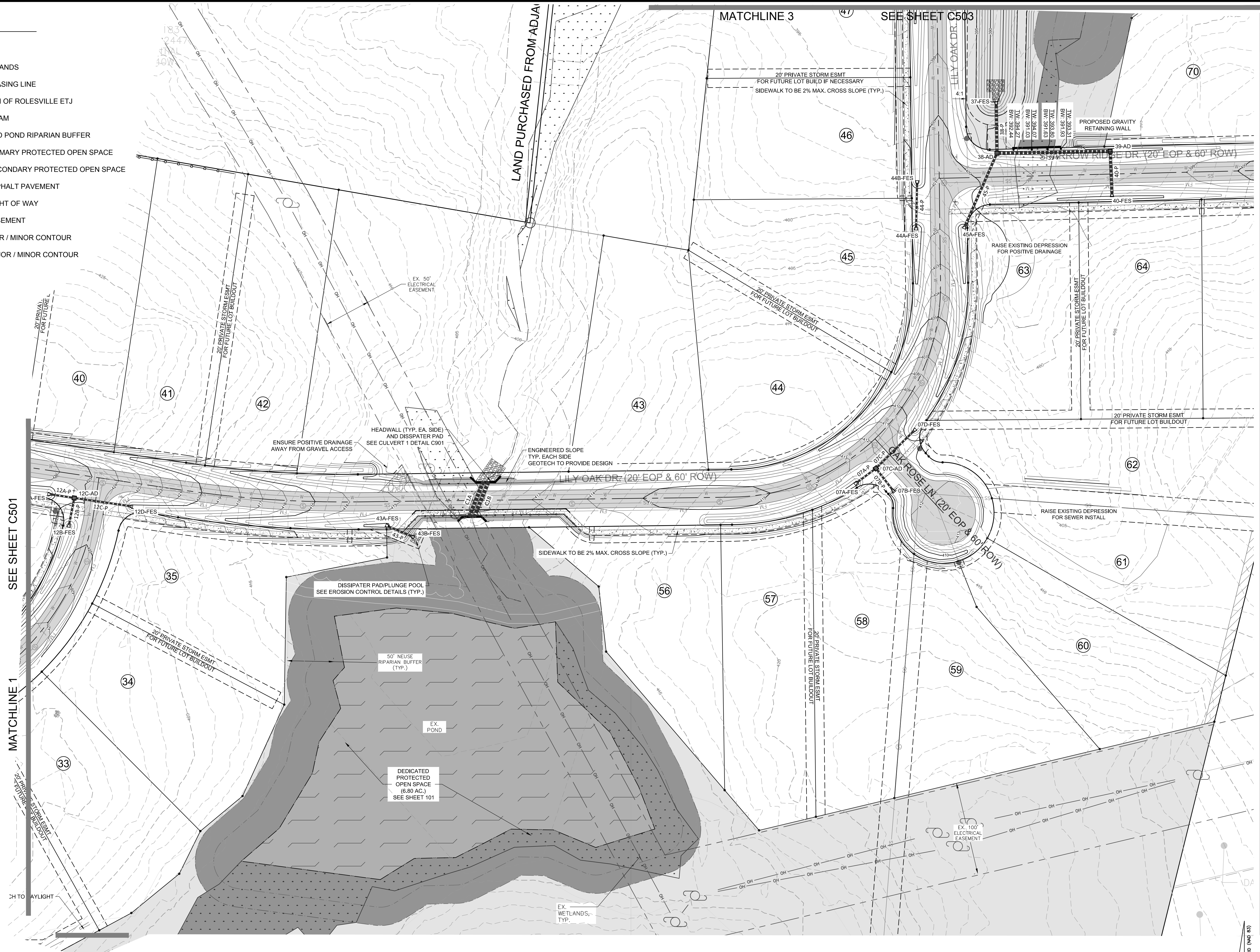
PHASE 1
 GRADING PLAN

410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY

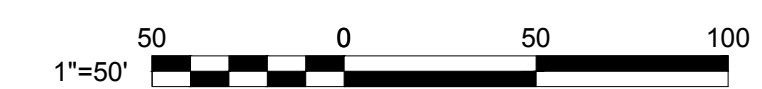
Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 50'
Date:	09/08/2020
Project Number:	P170347
SHEET	
C501	

LEGEND:

- EXISTING POND
- EXISTING WETLANDS
- PROPOSED PHASING LINE
- EXISTING TOWN OF ROLESVILLE ETJ
- EXISTING STREAM
- 50' STREAM AND POND RIPARIAN BUFFER
- DEDICATED PRIMARY PROTECTED OPEN SPACE
- DEDICATED SECONDARY PROTECTED OPEN SPACE
- PROPOSED ASPHALT PAVEMENT
- PROPOSED RIGHT OF WAY
- PROPOSED EASEMENT
- 420 EXISTING MAJOR / MINOR CONTOUR
- 418 EXISTING MAJOR / MINOR CONTOUR
- 420 PROPOSED MAJOR / MINOR CONTOUR
- 418 PROPOSED MAJOR / MINOR CONTOUR



NOTE: 1' INTERVAL CONTOURS

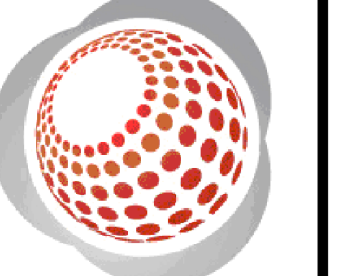


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REV	DESCRIPTION	DATE
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CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION

PHASE 1
 GRADING PLAN

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 50'
Date:	09/08/2020
Project Number:	P170347
SHEET	
C502	


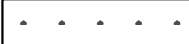



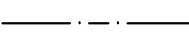

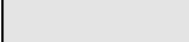
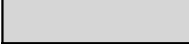
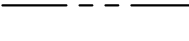
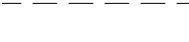

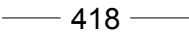
MATCHLINE 2 SEE SHEET C504

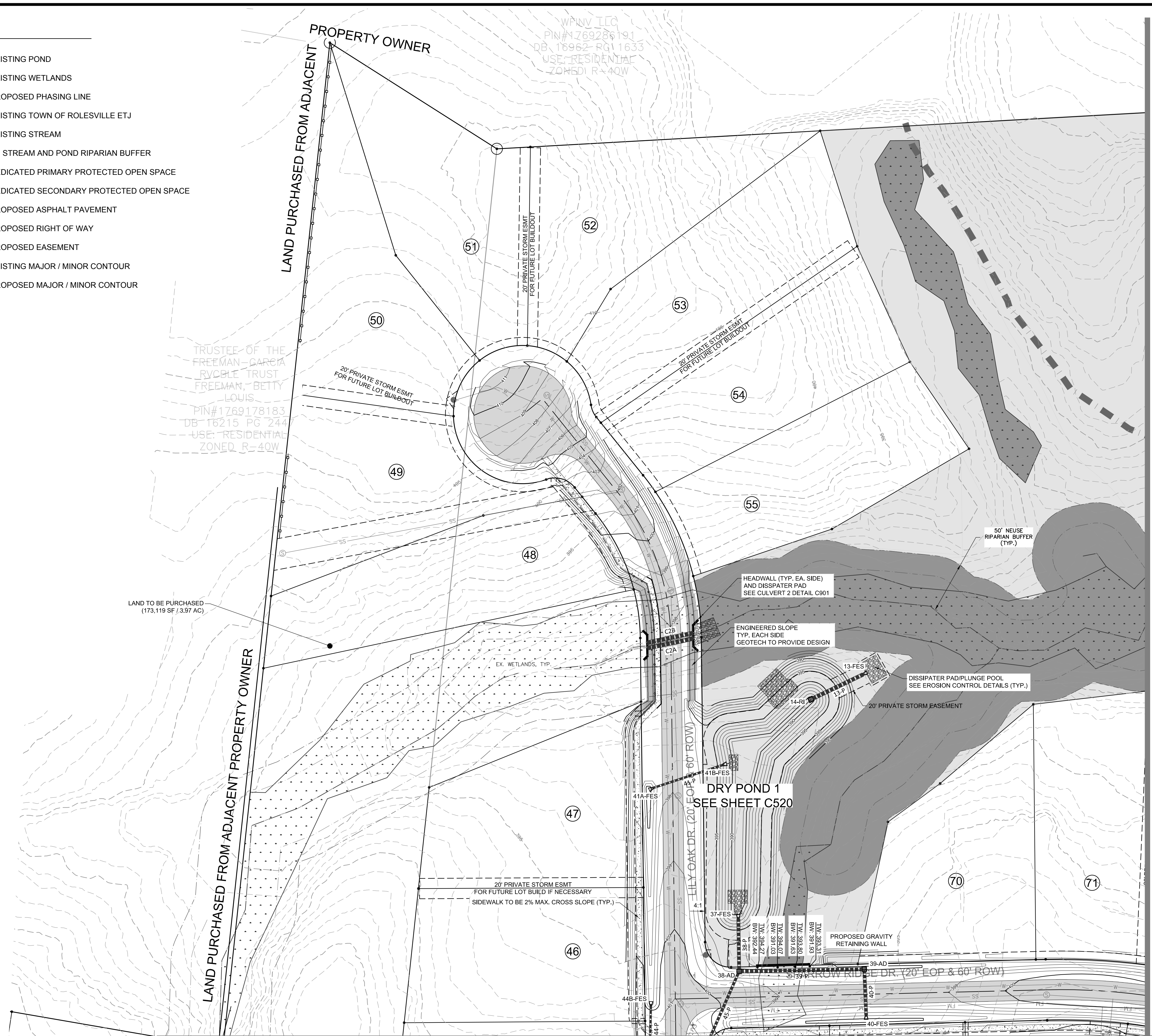
MATCHLINE 1 SEE SHEET C501

MATCHLINE 3 SEE SHEET C503

NORTH Reference: 1" = 50' (NAD 83)

LEGEND:

-  EXISTING POND
-  EXISTING WETLANDS
-  PROPOSED PHASING LINE
-  EXISTING TOWN OF ROLESVILLE ETJ
-  EXISTING STREAM
-  50' STREAM AND POND RIPARIAN BUFFER
-  DEDICATED PRIMARY PROTECTED OPEN SPACE
-  DEDICATED SECONDARY PROTECTED OPEN SPACE
-  PROPOSED ASPHALT PAVEMENT
-  PROPOSED RIGHT OF WAY
-  PROPOSED EASEMENT
-  420
418 EXISTING MAJOR / MINOR CONTOUR
-  420
418 PROPOSED MAJOR / MINOR CONTOUR



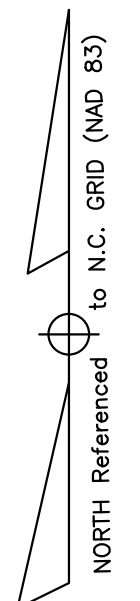
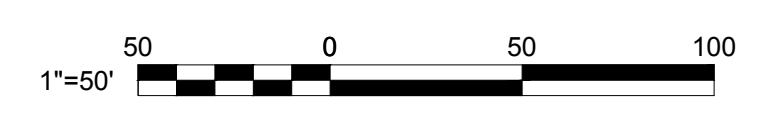
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REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
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01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020
	REVISIONS	

MATCHLINE 3 SEE SHEET C502

MATCHLINE 4 SEE SHEET C504

NOTE: 1' INTERVAL CONTOURS



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 NCBELS FIRM No. C-2378



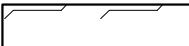
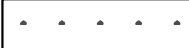



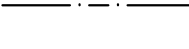


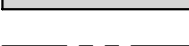


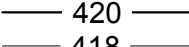

CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION

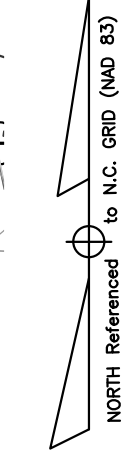
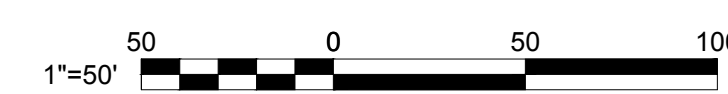
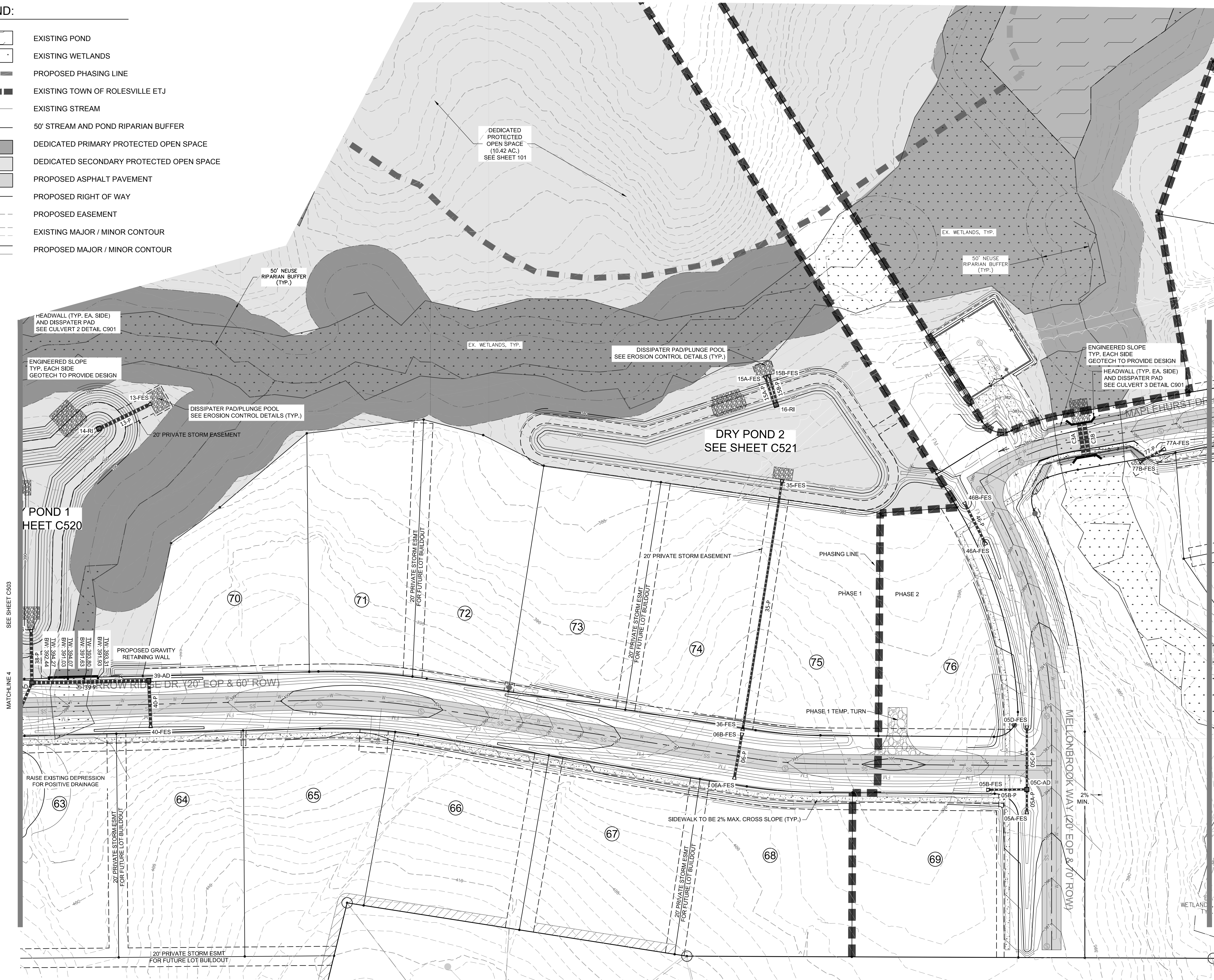
410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY

PHASE 1
GRADING PLAN

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 50'
Date:	09/08/2020
Project Number:	P170347
SHEET	
C503	

LEGEND:

-  EXISTING POND
-  EXISTING WETLANDS
-  PROPOSED PHASING LINE
-  EXISTING TOWN OF ROLESVILLE ETJ
-  EXISTING STREAM
-  50' STREAM AND POND RIPARIAN BUFFER
-  DEDICATED PRIMARY PROTECTED OPEN SPACE
-  DEDICATED SECONDARY PROTECTED OPEN SPACE
-  PROPOSED ASPHALT PAVEMENT
-  PROPOSED RIGHT OF WAY
-  PROPOSED EASEMENT
-  420
418 EXISTING MAJOR / MINOR CONTOUR
-  420
418 PROPOSED MAJOR / MINOR CONTOUR

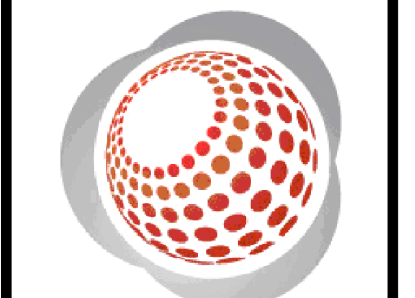


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REV	DESCRIPTION	DATE
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 Phone: 919.577.1080 Fax: 919.577.1081
 NCBELS FIRM No. C-2378



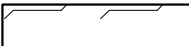
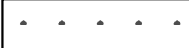



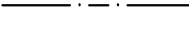


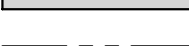



CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION

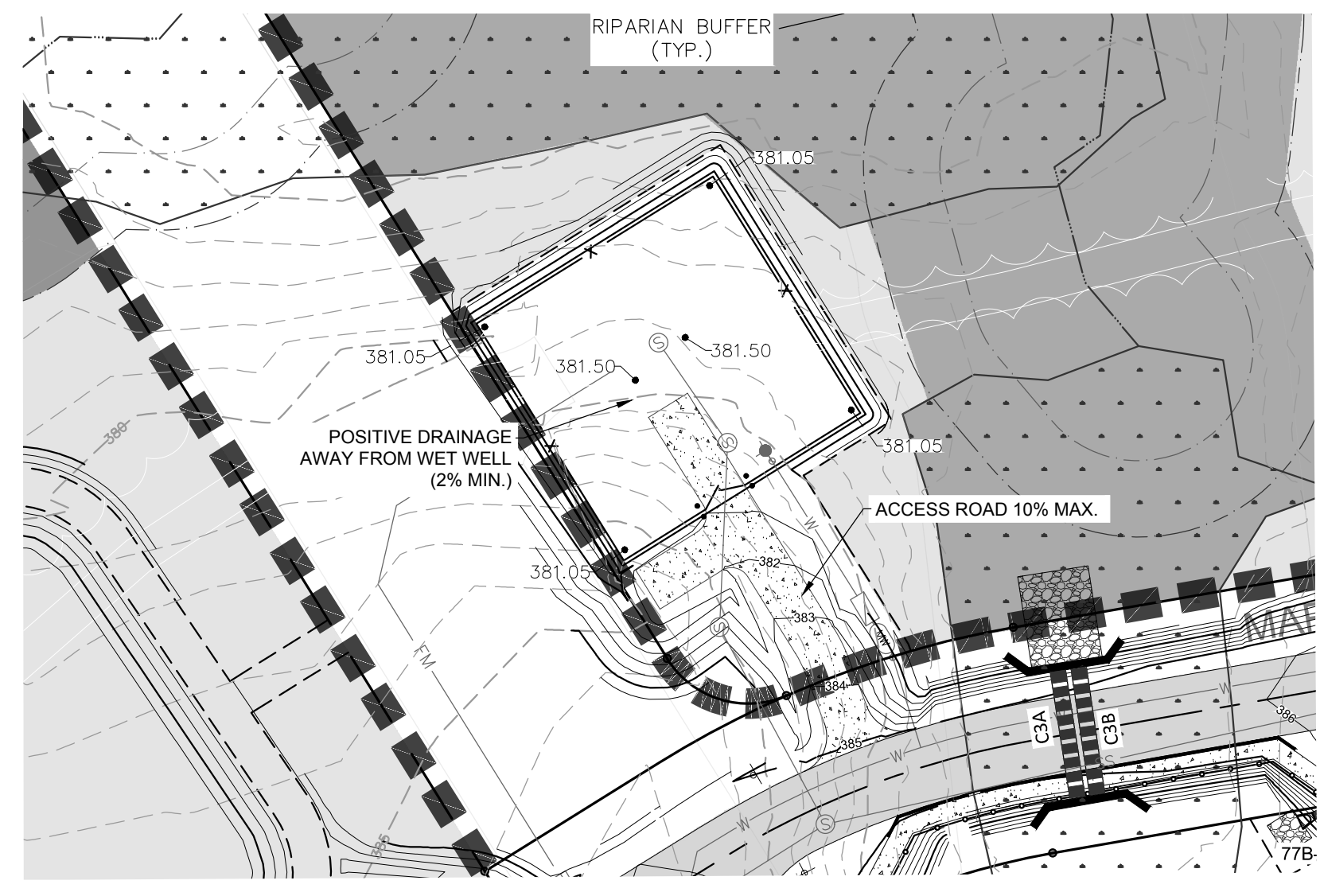
410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY

PHASE 1 / 2
GRADING PLAN

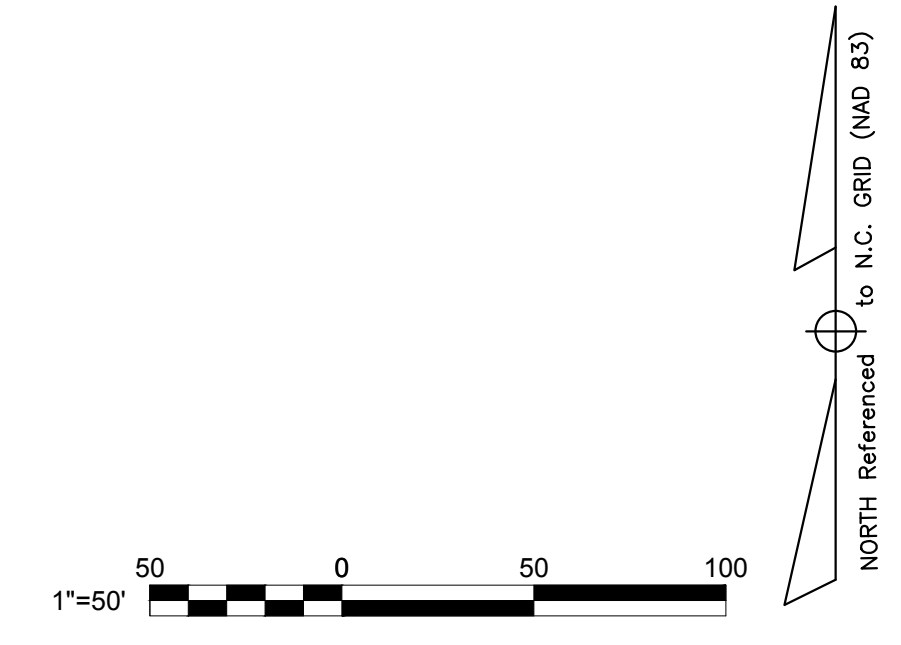
Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 50'
Date:	09/08/2020
Project Number:	P170347
SHEET	
C504	

LEGEND:

-  EXISTING POND
-  EXISTING WETLANDS
-  PROPOSED PHASING LINE
-  EXISTING TOWN OF ROLESVILLE ETJ
-  EXISTING STREAM
-  50' STREAM AND POND RIPARIAN BUFFER
-  DEDICATED PRIMARY PROTECTED OPEN SPACE
-  DEDICATED SECONDARY PROTECTED OPEN SPACE
-  PROPOSED ASPHALT PAVEMENT
-  PROPOSED RIGHT OF WAY
-  PROPOSED SETBACK
-  PROPOSED EASEMENT



NOTE: 1' INTERVAL CONTOURS

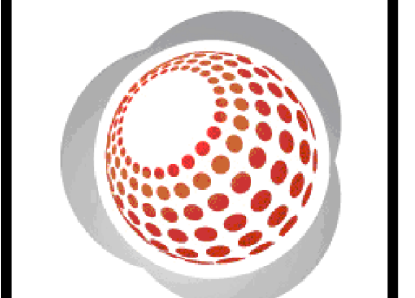


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REV	DESCRIPTION	DATE
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01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020
	DESCRIPTION	DATE
	REVISIONS	



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 Phone: 919.577.1080 Fax: 919.577.1081
 NCBELS FIRM No. C-2378

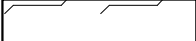




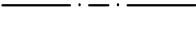








CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION
 410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY

PHASE 2
 GRADING PLAN

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 50'
Date:	09/08/2020
Project Number:	P170347
SHEET	
C505	

LEGEND:

-  EXISTING POND
-  EXISTING WETLANDS
-  PROPOSED PHASING LINE
-  EXISTING TOWN OF ROLESVILLE ETJ
-  EXISTING STREAM
-  50' STREAM AND POND RIPARIAN BUFFER
-  DEDICATED PRIMARY PROTECTED OPEN SPACE
-  DEDICATED SECONDARY PROTECTED OPEN SPACE
-  PROPOSED ASPHALT PAVEMENT
-  PROPOSED RIGHT OF WAY
-  PROPOSED SETBACK
-  PROPOSED EASEMENT



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MATCHLINE 6 SEE SHEET C505

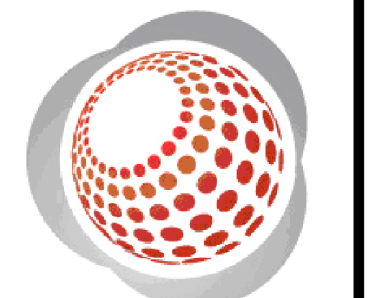
NOTE: 1' INTERVAL CONTOURS



NORTH Referenced to N.C. GRID (NAD 83)



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CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION

EAST
GRADING PLAN

Project Engineer: TSS
 Designed By: TEP
 Drawn By: TEP
 Checked By: TSS
 Scale: 1" = 50'
 Date: 09/08/2020
 Project Number: P170347

SHEET
C506

PIPE TABLE with columns: NAME, CONNECT, SIZE, LENGTH, SLOPE, MATERIAL. Includes rows 01-P through 60-P.

PIPE TABLE with columns: NAME, CONNECT, SIZE, LENGTH, SLOPE, MATERIAL. Includes rows 61-P through 60-P.

STRUCTURE TABLE with columns: NAME, RIM, PIPES IN, PIPES OUT. Includes rows 01-FES through 42A-FES.

STRUCTURE TABLE with columns: NAME, RIM, PIPES IN, PIPES OUT. Includes rows 42B-FES through 90-JB.

DRIVEWAY PIPES TO BE INSTALLED BY HOME BUILDER table with columns: LOT, SIZE (IN), MATERIAL. Lists lots 49 through 96.

P:2017 Projects\170347 Chandelers Ridge\Eng\CADD\DWG\TP SHEETV_170347_C501 GRADING BLOWUPS.dwg

REVISIONS table with columns: REV, DESCRIPTION, DATE. Shows revisions 01, 02, 03.



Bateman Civil Survey Company, Engineers • Surveyors • Planners, 2524 Reliance Avenue, Apex, North Carolina 27539.



CHANDLER'S RIDGE CONSTRUCTION DOCUMENTS CONSERVATION SUBDIVISION

STORM DRAINAGE PIPE/STRUCTURE TABLES

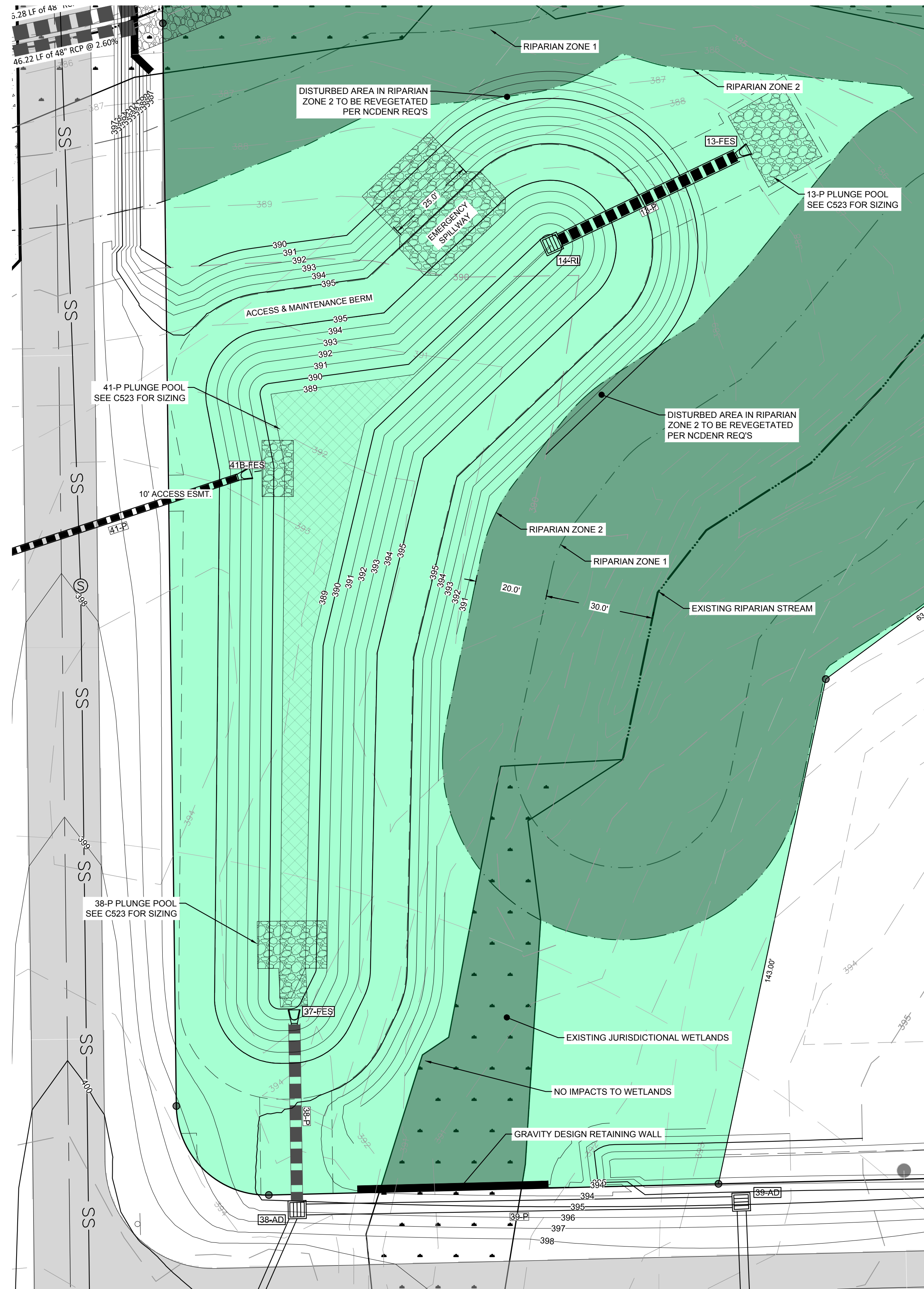
Project Engineer: TSS, Designed By: TEP, Drawn By: TEP, Checked By: TSS, Scale: 1" = 100'

Date: 09/08/2020

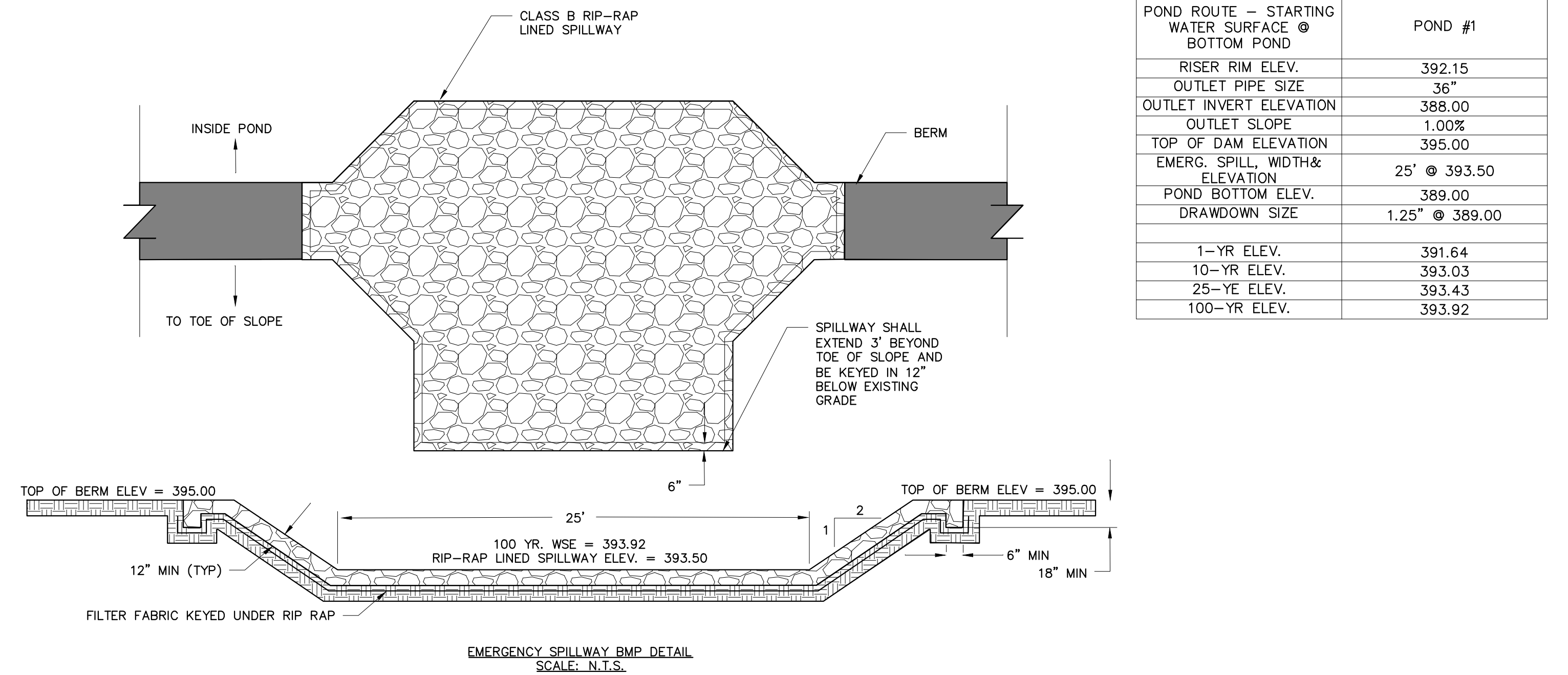
Project Number: P170347

SHEET C510

- LEGEND:
- EXISTING RIPARIAN STREAM
 - EXISTING RIPARIAN BUFFER
 - PROJECT PARCEL BOUNDARY
 - PRIVATE RIGHT OF WAY
 - EXISTING MINOR CONTOUR (1 FT.)
 - EXISTING MAJOR CONTOUR (6 FT.)
 - PROPOSED MINOR CONTOUR (1 FT.)
 - PROPOSED MAJOR CONTOUR (5 FT.)
 - PROPOSED PAVEMENT
 - PROPOSED GRAVEL
 - TREE AND VEGETATION PROTECTION AREA
 - PROPOSED EASEMENT
 - PROPOSED SETBACK

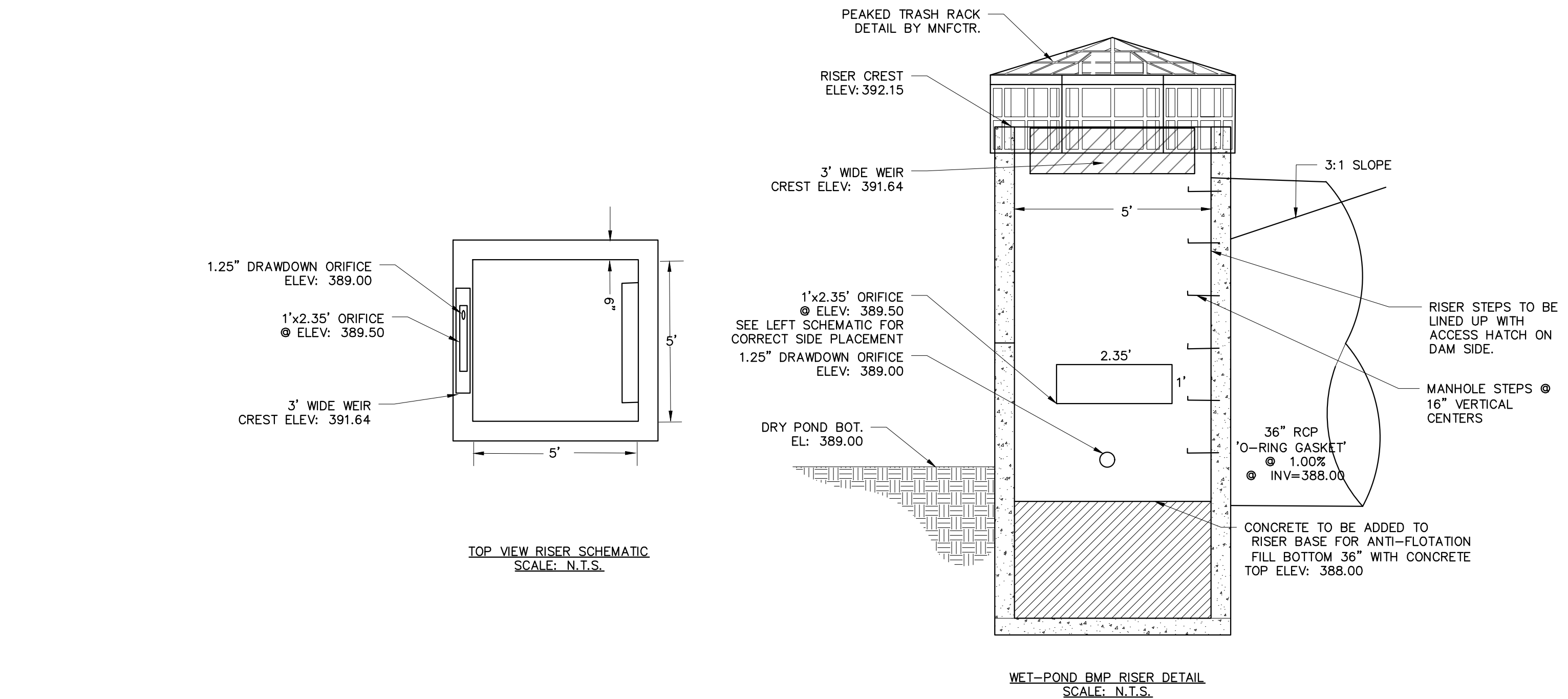


DRY POND #1 DETAIL
SCALE: 1" = 20'

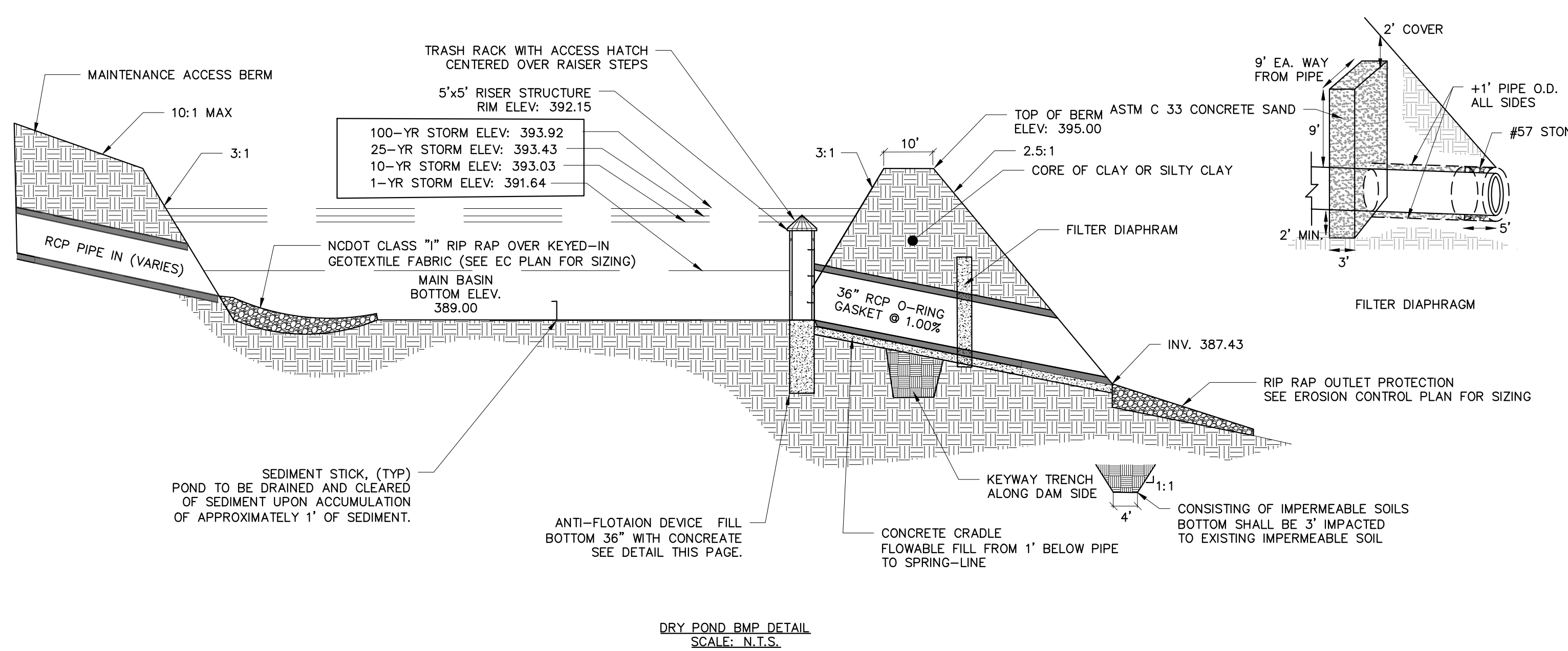


EMERGENCY SPILLWAY BMP DETAIL
SCALE: N.T.S.

POND ROUTE - STARTING WATER SURFACE @ BOTTOM POND	POND #1
RISER RIM ELEV.	392.15
OUTLET PIPE SIZE	36"
OUTLET INVERT ELEVATION	388.00
OUTLET SLOPE	1.00%
TOP OF DAM ELEVATION	395.00
EMERG. SPILL. WIDTH & ELEVATION	25' @ 393.50
POND BOTTOM ELEV.	389.00
DRAWDOWN SIZE	1.25" @ 389.00
1-YR ELEV.	391.64
10-YR ELEV.	393.03
25-YE ELEV.	393.43
100-YR ELEV.	393.92



WET-POND BMP RISER DETAIL
SCALE: N.T.S.



DRY POND BMP DETAIL
SCALE: N.T.S.

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REV	DESCRIPTION	DATE
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Engineers • Surveyors • Planners
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NCBELS FRM No. C-2378



CHANDLER'S RIDGE
CONSTRUCTION DOCUMENTS
CONSERVATION SUBDIVISION
410 W. YOUNG ST.
ROLESVILLE, NC
WAKE COUNTY

DRY POND #1
PLAN & DETAILS

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	

Date: 09/08/2020

Project Number: P170347

SHEET
C520

LEGEND:	
	EXISTING RIPARIAN STREAM
	EXISTING RIPARIAN BUFFER
	PROJECT PARCEL BOUNDARY
	PRIVATE RIGHT OF WAY
	EXISTING MINOR CONTOUR (1 FT.)
	EXISTING MAJOR CONTOUR (6 FT.)
	PROPOSED MINOR CONTOUR (1 FT.)
	PROPOSED MAJOR CONTOUR (6 FT.)
	PROPOSED PAVEMENT
	PROPOSED GRAVEL
	TREE AND VEGETATION PROTECTION AREA
	PROPOSED EASEMENT
	PROPOSED SETBACK

POND ROUTE - STARTING WATER SURFACE @ BOTTOM POND	POND #2
RISER RIM ELEV.	379.60
OUTLET PIPE SIZE	(2) 18"
OUTLET INVERT ELEVATION	377.50
OUTLET SLOPE	1.93%
TOP OF DAM ELEVATION	382.50
EMERG. SPILL. WIDTH & ELEVATION	30' @ 381.00
POND BOTTOM ELEV.	378.50
DRAWDOWN SIZE	1.25" @ 378.50
1-YR ELEV.	379.72
10-YR ELEV.	380.81
25-YR ELEV.	381.15
100-YR ELEV.	381.45



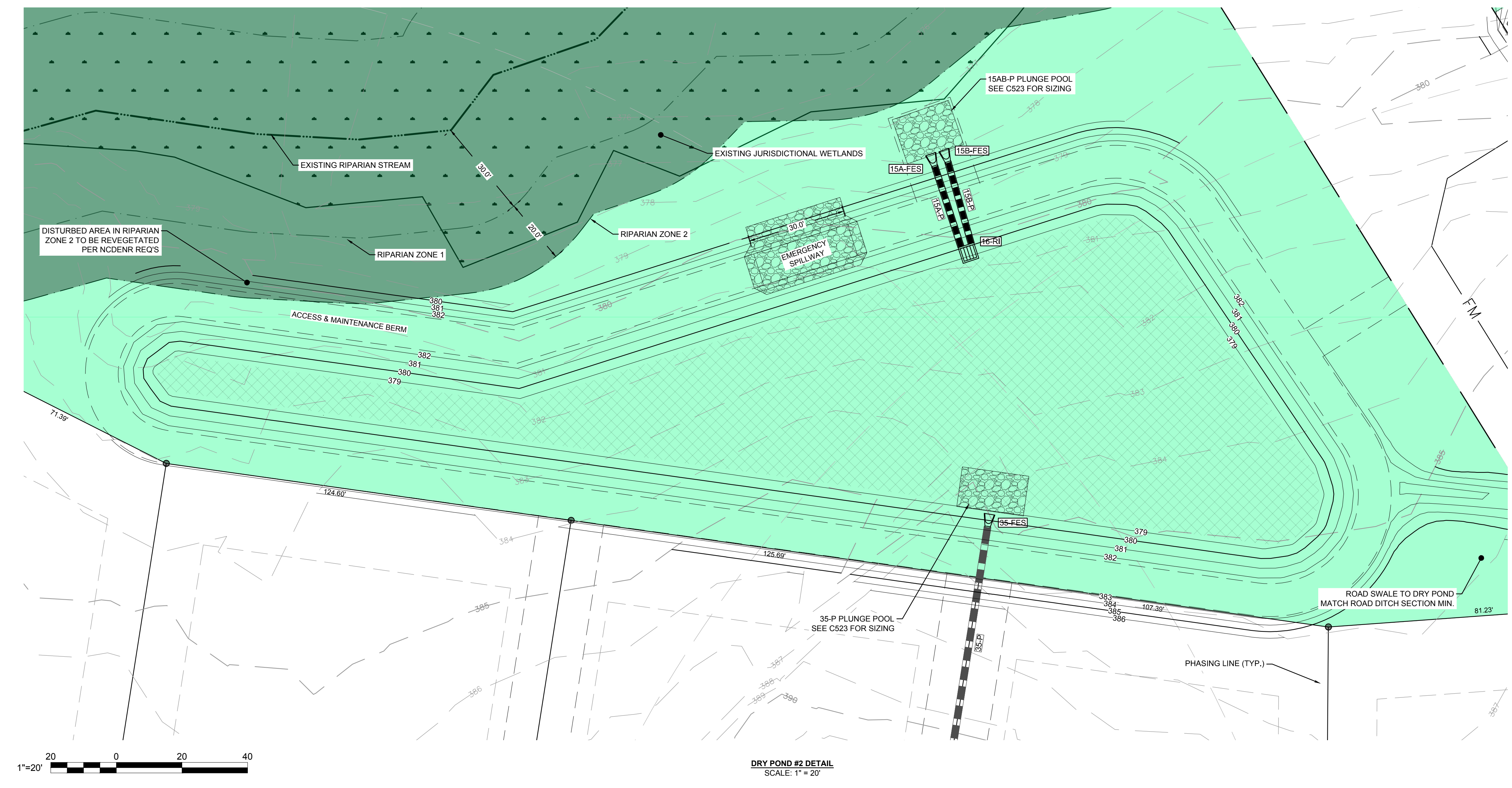
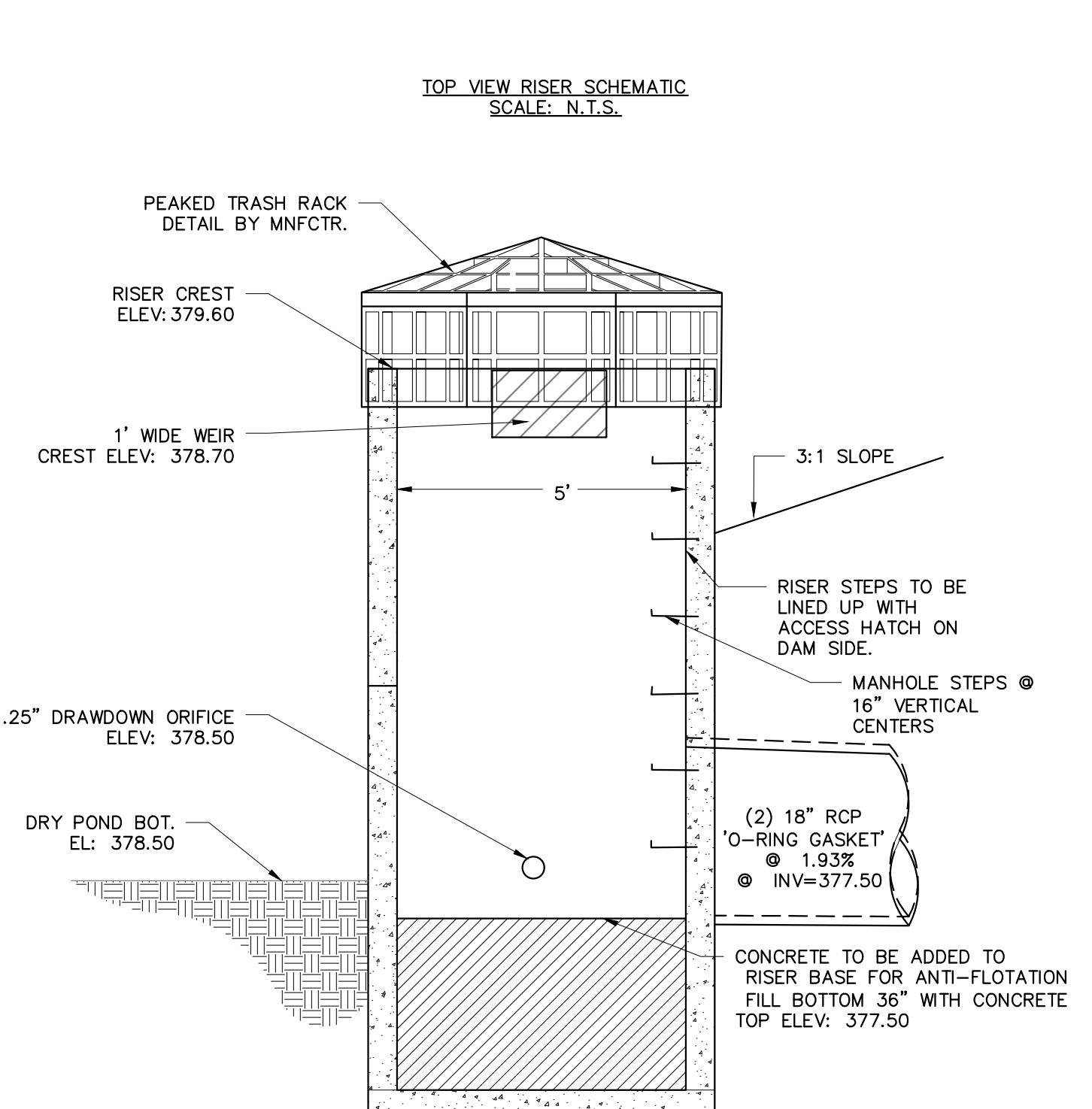
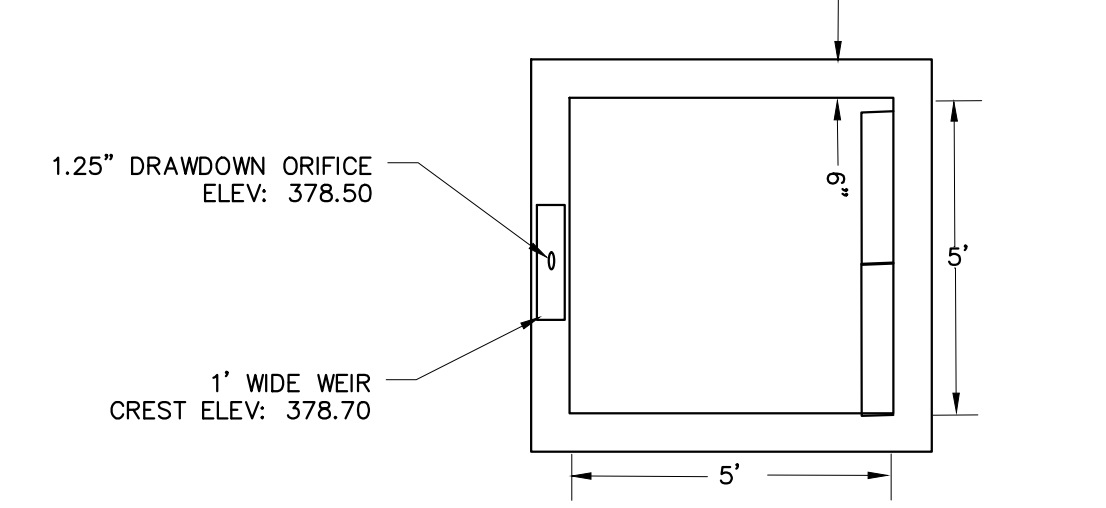
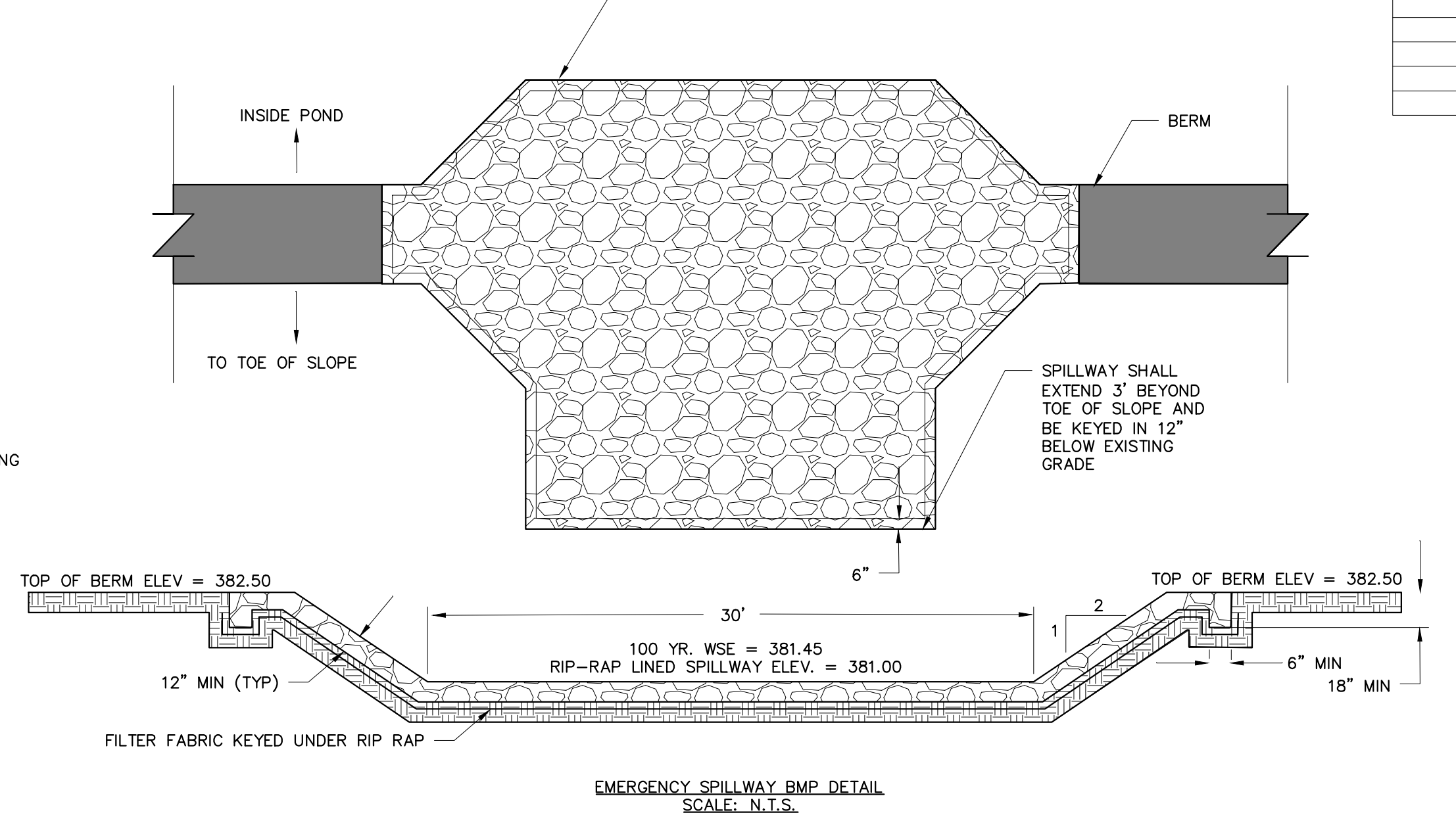
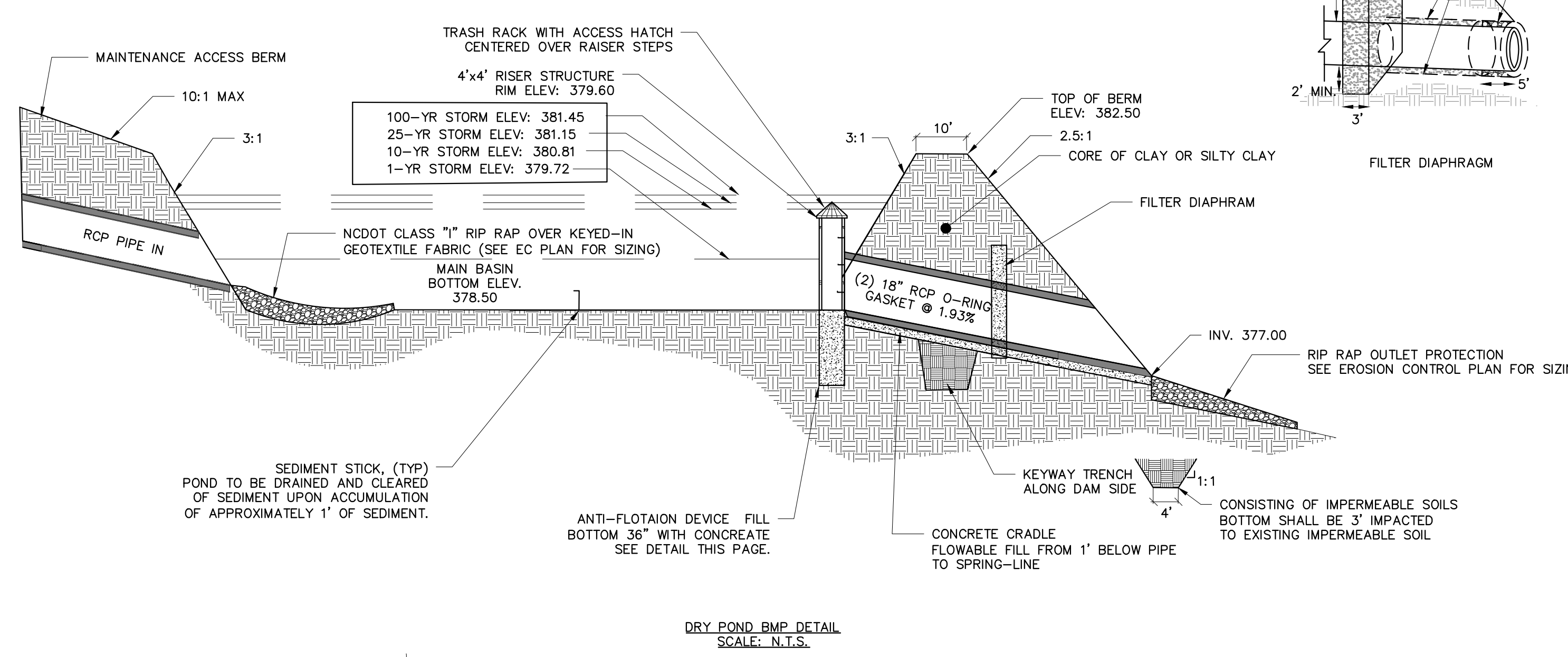
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 Phone: 919.577.1080 Fax: 919.577.1081
 NCBELS FRM No. C-2378



CHANDLER'S RIDGE CONSTRUCTION DOCUMENTS CONSERVATION SUBDIVISION

DRY POND #2 PLAN & DETAILS

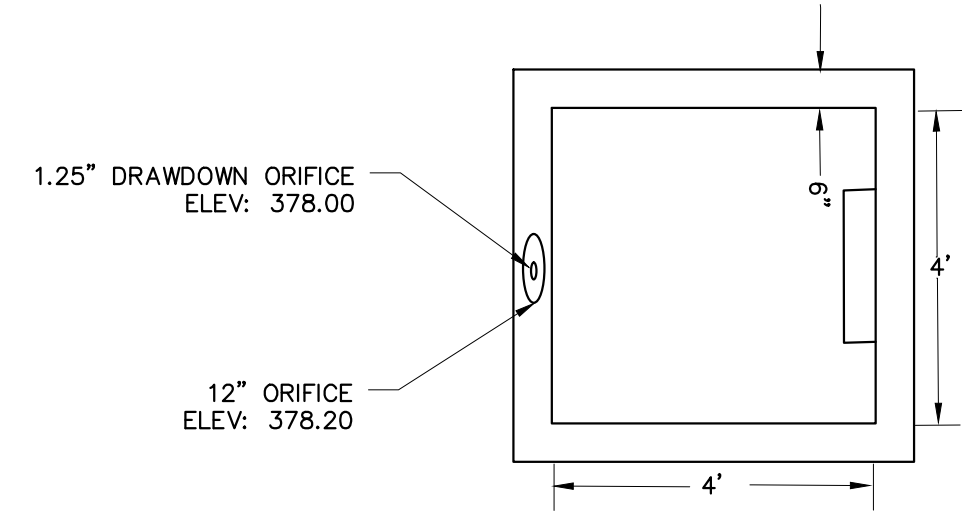
Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	
Date:	09/08/2020
Project Number:	P170347
SHEET	
C521	



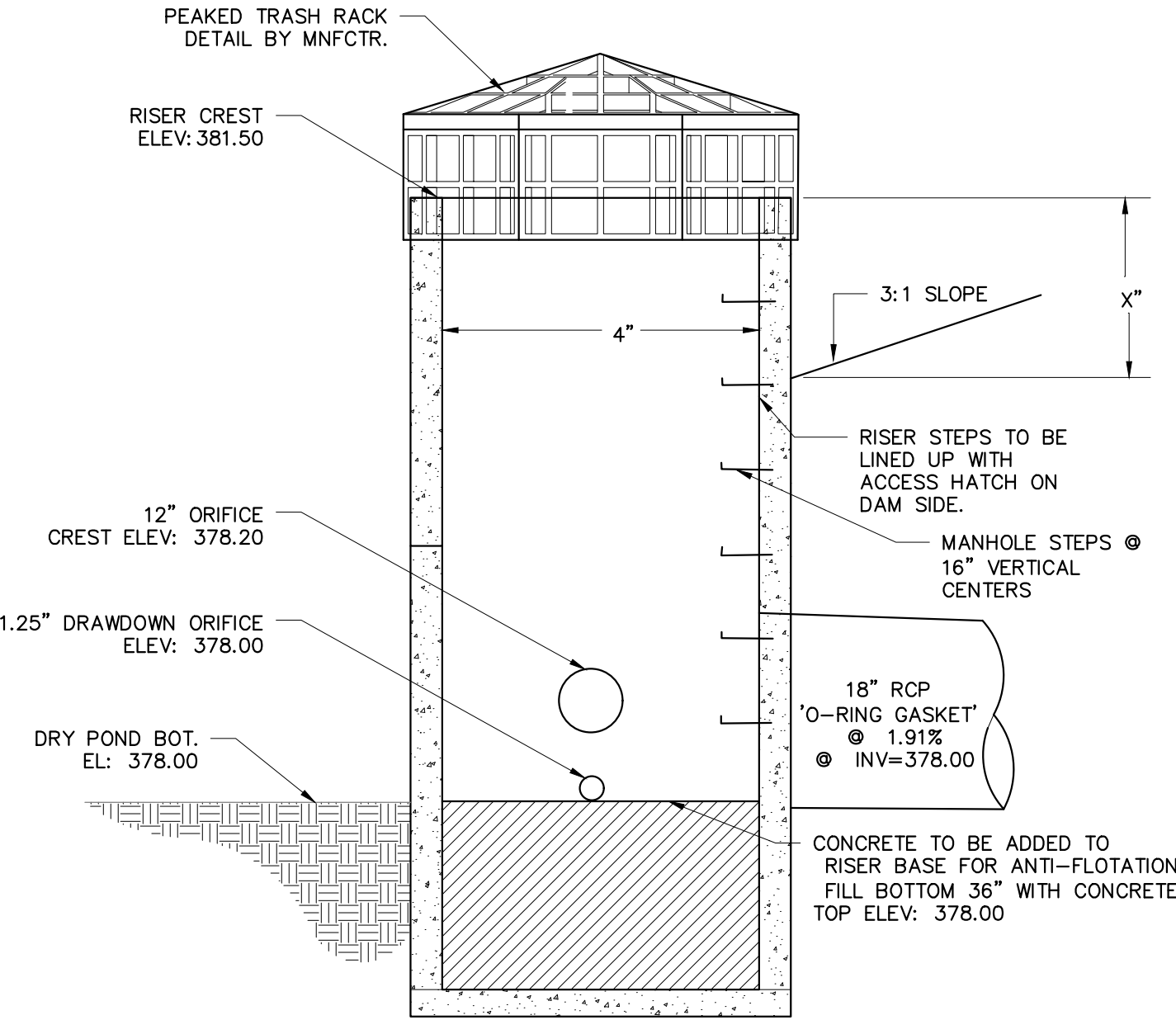
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REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
02	CONSTRUCTION DOCUMENTS 2ND SUBMITTAL	08/14/2020
01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020

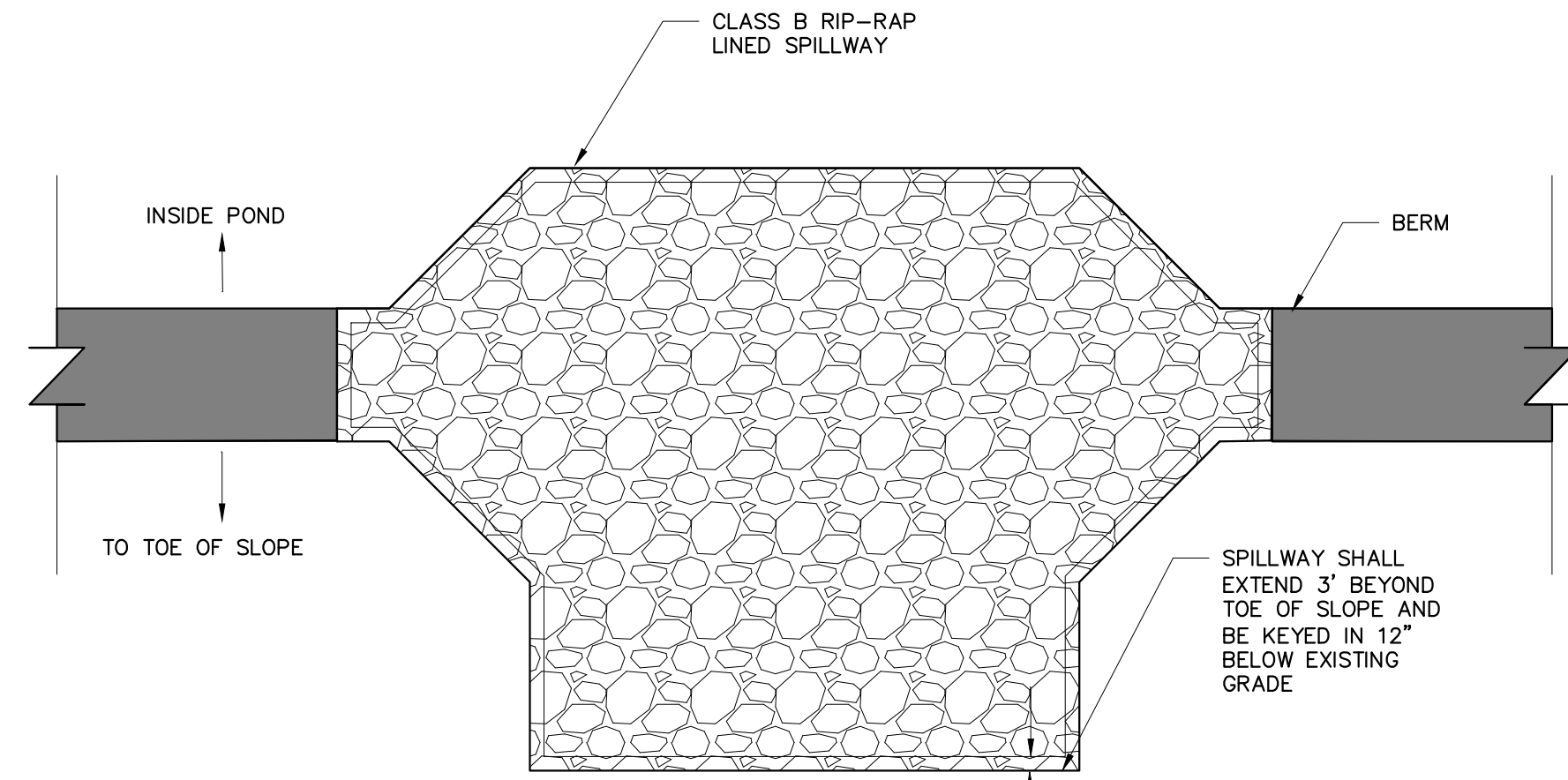
- LEGEND:**
- EXISTING RIPARIAN STREAM
 - EXISTING RIPARIAN BUFFER
 - PROJECT PARCEL BOUNDARY
 - PRIVATE RIGHT OF WAY
 - EXISTING MINOR CONTOUR (1 FT.)
 - EXISTING MAJOR CONTOUR (6 FT.)
 - PROPOSED MINOR CONTOUR (1 FT.)
 - PROPOSED MAJOR CONTOUR (6 FT.)
 - PROPOSED PAVEMENT
 - PROPOSED GRAVEL
 - TREE AND VEGETATION PROTECTION AREA
 - PROPOSED EASEMENT
 - PROPOSED SETBACK



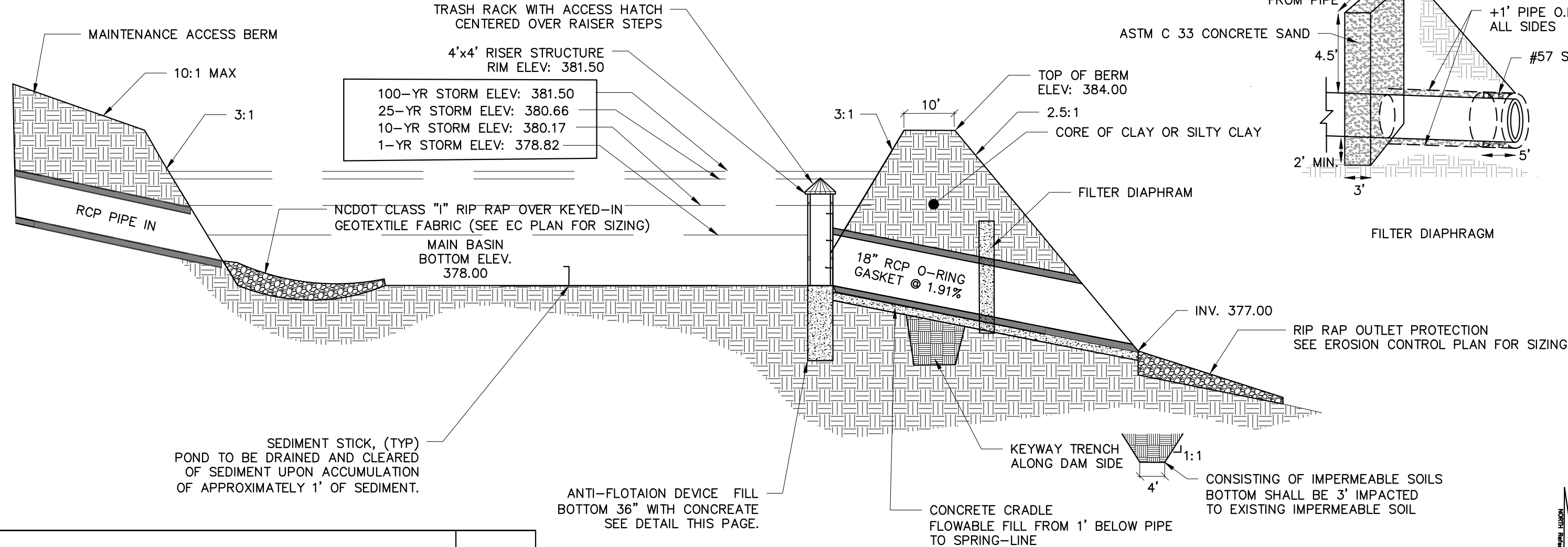
TOP VIEW RISER SCHEMATIC
SCALE: N.T.S.



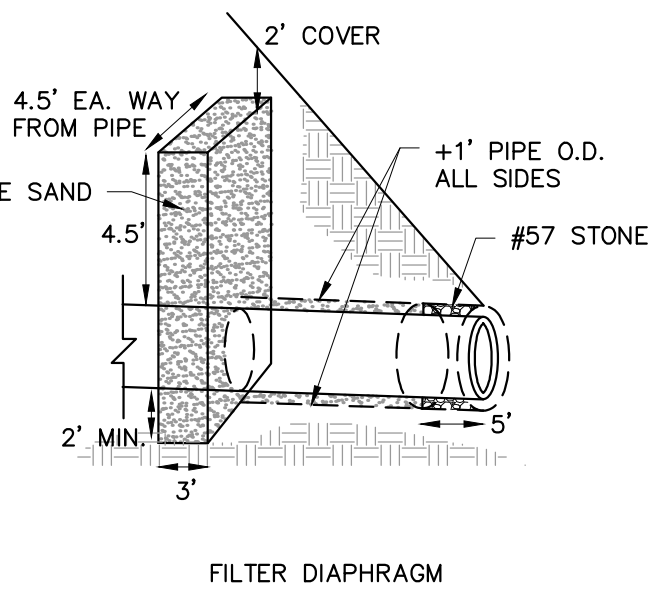
WET-POND BMP RISER DETAIL
SCALE: N.T.S.



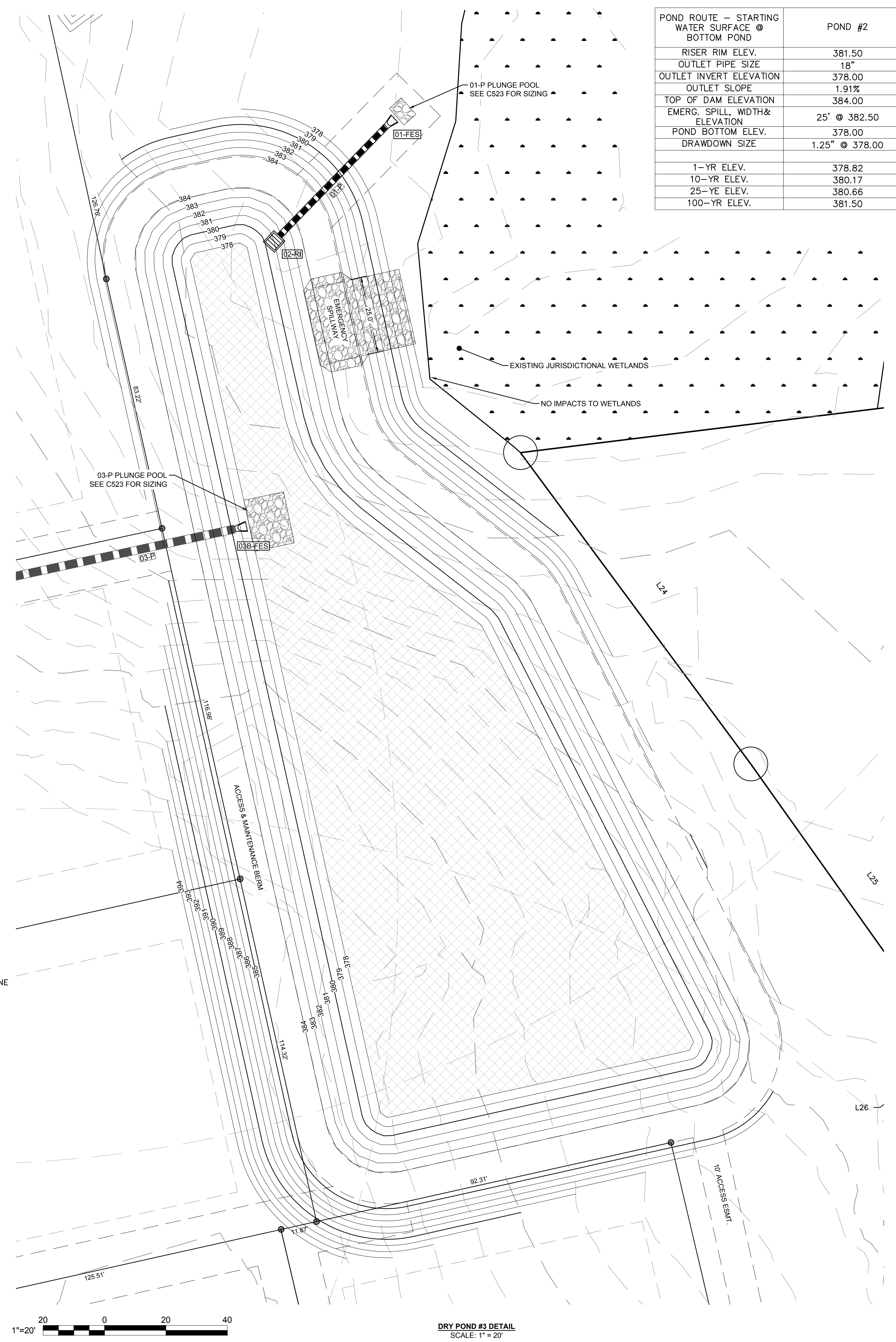
EMERGENCY SPILLWAY BMP DETAIL
SCALE: N.T.S.



DRY POND BMP DETAIL
SCALE: N.T.S.



FILTER DIAPHRAM



DRY POND #3 DETAIL
SCALE: 1" = 20'

POND ROUTE - STARTING WATER SURFACE @ BOTTOM POND		POND #2
RISER RIM ELEV.		381.50
OUTLET PIPE SIZE		18"
OUTLET INVERT ELEVATION		378.00
OUTLET SLOPE		1.91%
TOP OF DAM ELEVATION		384.00
EMERG. SPILL, WIDTH & ELEVATION		25' @ 382.50
POND BOTTOM ELEV.		378.00
DRAWDOWN SIZE		1.25' @ 378.00
1-YR ELEV.		378.82
10-YR ELEV.		380.17
25-YE ELEV.		380.66
100-YR ELEV.		381.50



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CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION

DRY POND #3
 PLAN & DETAILS

Project Engineer: TSS
 Designed By: TEP
 Drawn By: TEP
 Checked By: TSS
 Scale:

Date: 09/08/2020
 Project Number: P170347

SHEET
C522

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REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
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REV	DESCRIPTION	DATE



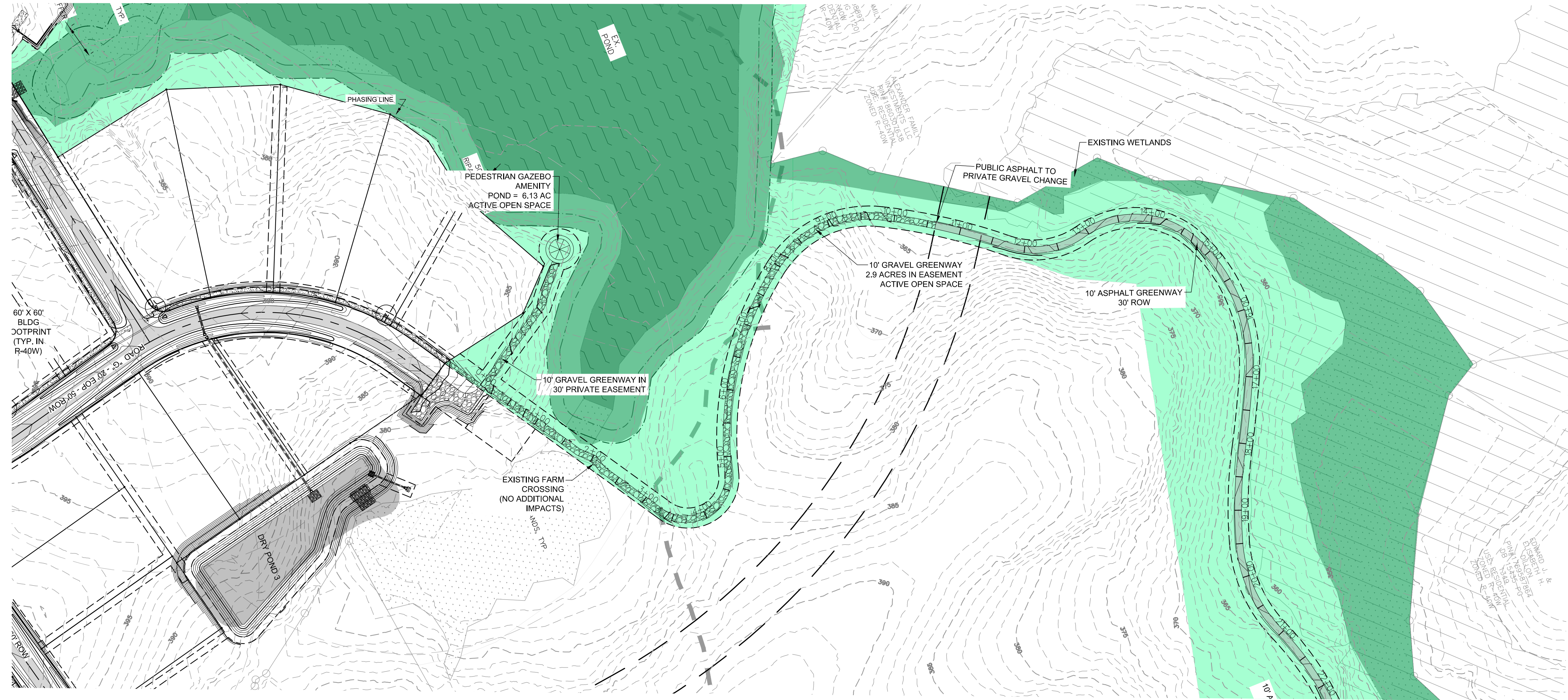
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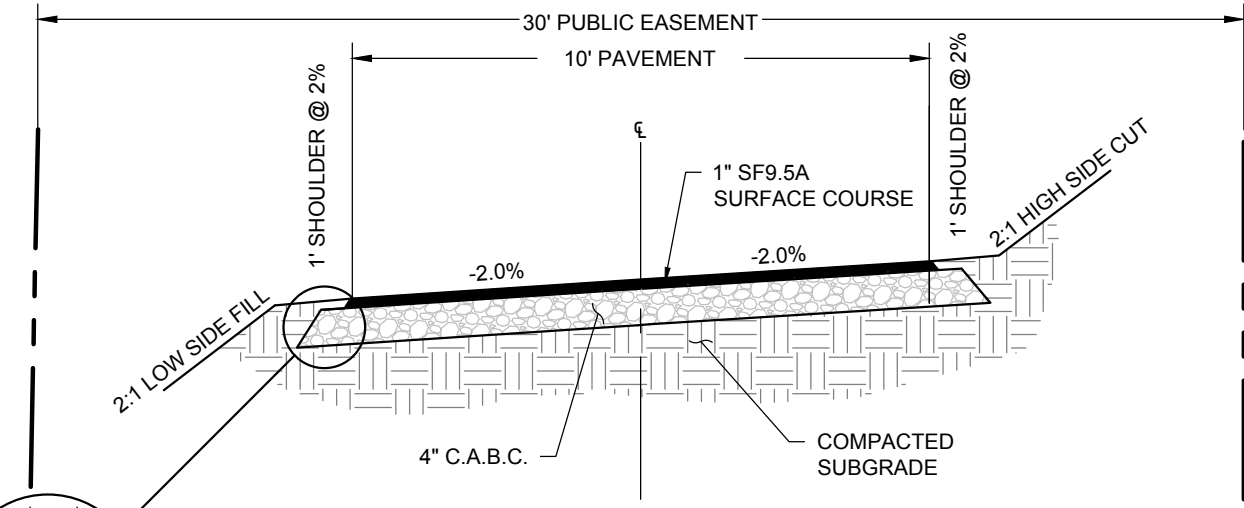
CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION
 410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY

GREENWAY
 PLAN & PROFILE

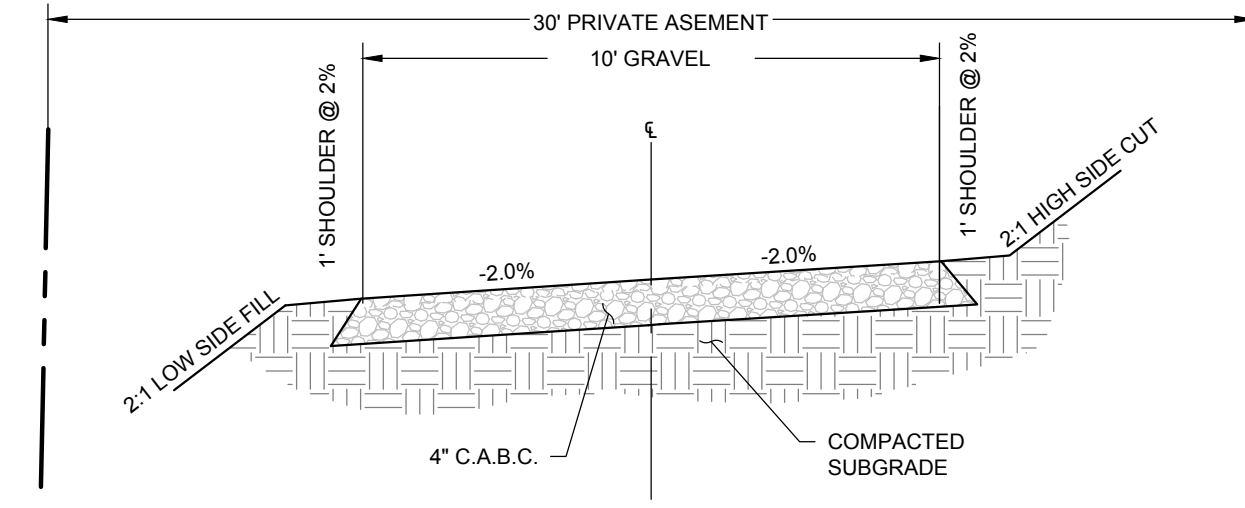
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Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 50'
Date:	09/08/2020
Project Number:	P170347
SHEET	
C590	



NORTH Referenced to N.C. GRID (MAD 83)



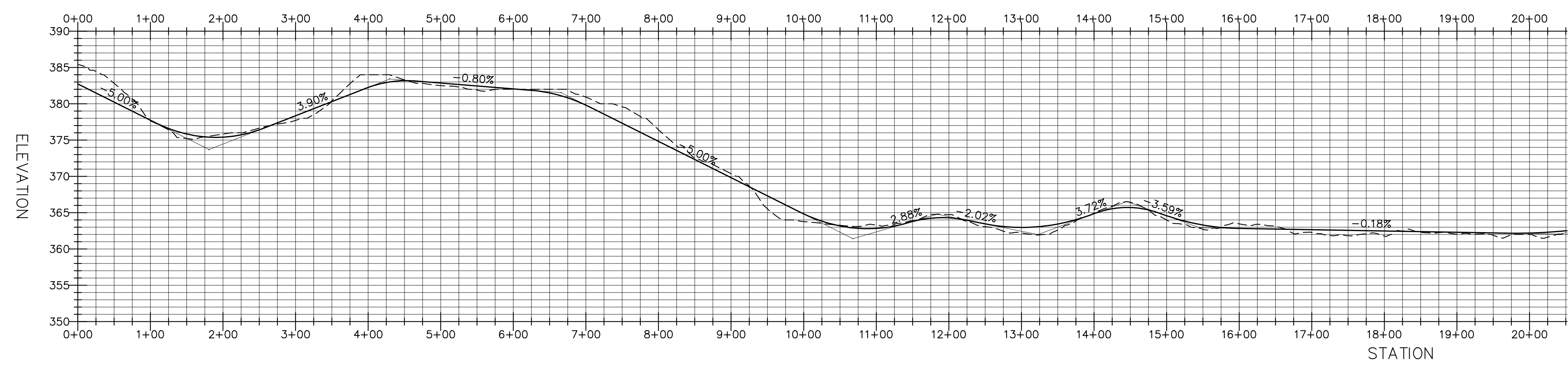
TYPICAL PUBLIC GREENWAY SECTION
 NOT TO SCALE



TYPICAL PRIVATE GREENWAY SECTION
 NOT TO SCALE

GREENWAY - PLAN
 SCALE: 1"=100'
 STA: 0+00 - 20+00

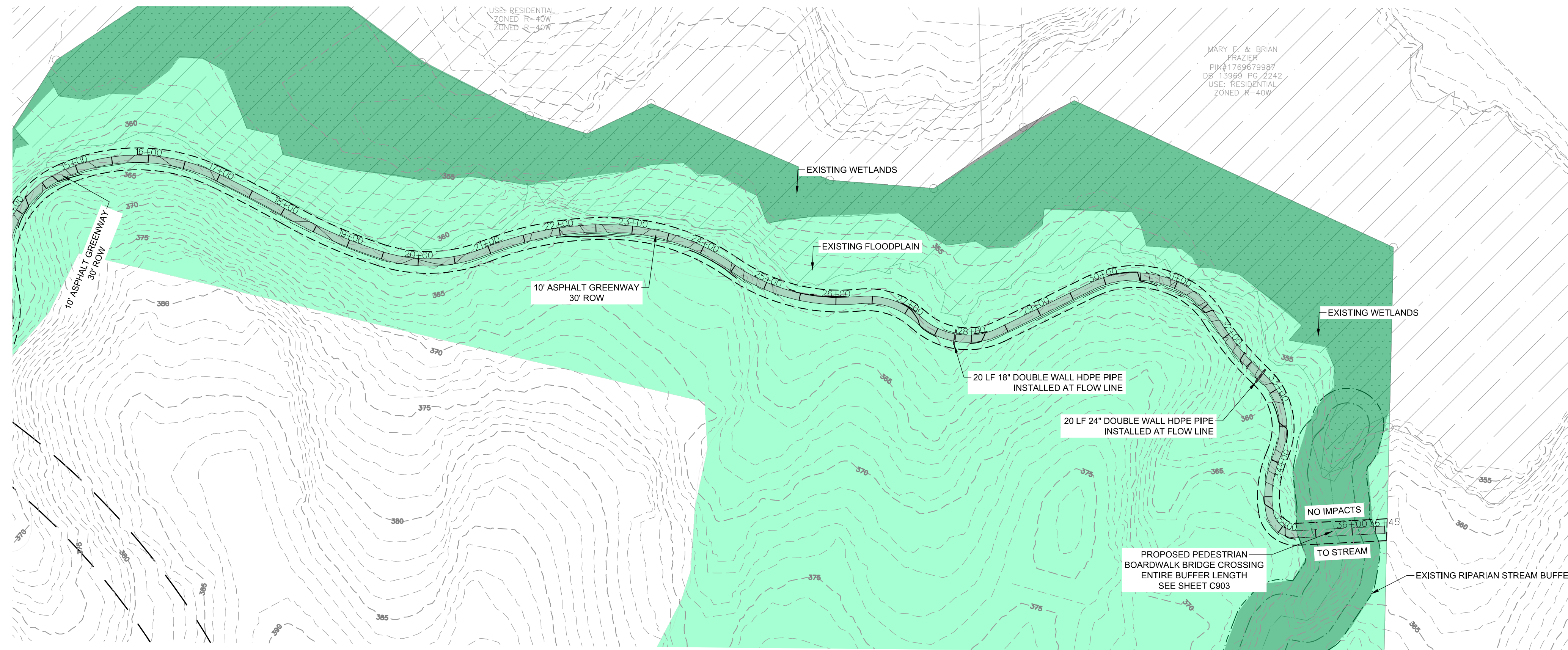
NOTE: 1' INTERVAL CONTOURS



GREENWAY - PROFILE
 HOR. SCALE: 1"=100' VER. SCALE: 1"=5'
 STA: 00+00 - 20+00

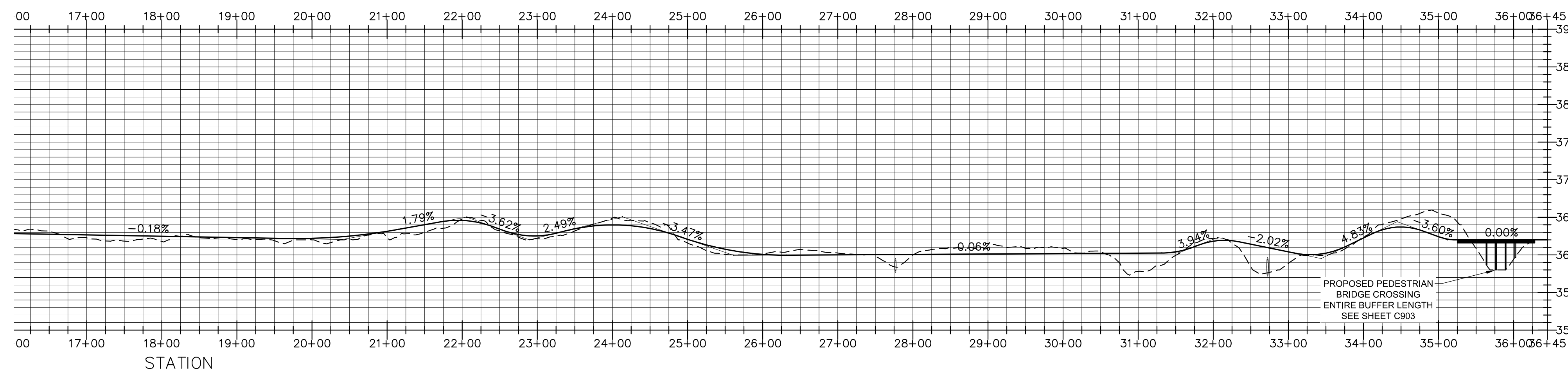
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01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020
	REVISIONS	

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GREENWAY - PLAN
SCALE: 1"=100'
STA: 20+00 - 39+61

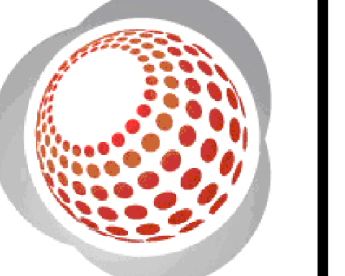
NOTE: 1' INTERVAL CONTOURS



GREENWAY - PROFILE
HOR. SCALE: 1"=100' VER. SCALE: 1"=5'
STA: 20+00 - 39+61



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CHANDLER'S RIDGE
CONSTRUCTION DOCUMENTS
CONSERVATION SUBDIVISION
 410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY

GREENWAY
PLAN & PROFILE

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	AS NOTED
Date:	09/08/2020
Project Number:	P170347

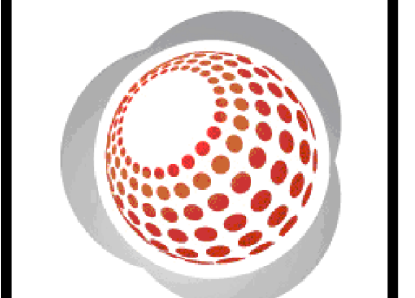
SHEET
C591

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REV	DESCRIPTION	DATE
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**CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION**

**OVERALL
 UTILITY PLAN**

Project Engineer: TSS
 Designed By: TEP
 Drawn By: TEP
 Checked By: TSS
 Scale: 1" = 200'

Date: 09/08/2020
 Project Number: P170347

SHEET
C600

LEGEND:

- EXISTING POND
- EXISTING WETLANDS
- PROPOSED PHASING LINE
- EXISTING TOWN OF ROLESVILLE ETJ
- EXISTING STREAM
- 50' STREAM AND POND RIPARIAN BUFFER
- DEDICATED PRIMARY PROTECTED OPEN SPACE
- DEDICATED SECONDARY PROTECTED OPEN SPACE
- PROPOSED ASPHALT PAVEMENT
- PROPOSED RIGHT OF WAY
- PROPOSED SETBACK
- PROPOSED EASEMENT
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED FORCE MAIN

PROPOSED UTILITY SEPARATION:

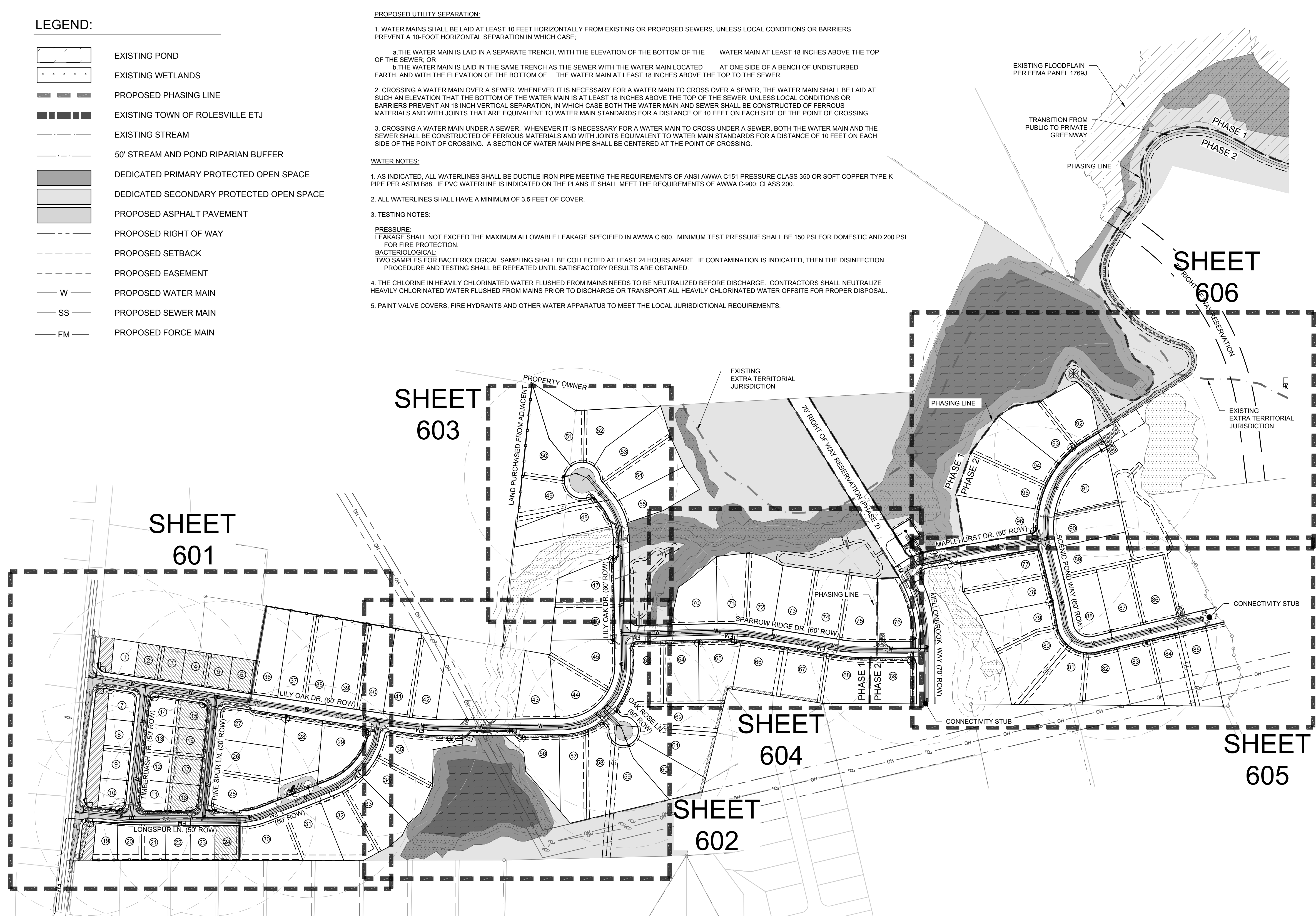
- WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM EXISTING OR PROPOSED SEWERS, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A 10-FOOT HORIZONTAL SEPARATION IN WHICH CASE:
 - THE WATER MAIN IS LAID IN A SEPARATE TRENCH, WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER; OR
 - THE WATER MAIN IS LAID IN THE SAME TRENCH AS THE SEWER WITH THE WATER MAIN LOCATED AT ONE SIDE OF A BENCH OF UNDISTURBED EARTH, AND WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP TO THE SEWER.
- CROSSING A WATER MAIN OVER A SEWER, WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS OVER A SEWER, THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT AN 18 INCH VERTICAL SEPARATION, IN WHICH CASE BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.
- CROSSING A WATER MAIN UNDER A SEWER, WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER, BOTH THE WATER MAIN AND THE SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.

WATER NOTES:

- AS INDICATED, ALL WATERLINES SHALL BE DUCTILE IRON PIPE MEETING THE REQUIREMENTS OF ANSI-AWWA C151 PRESSURE CLASS 350 OR SOFT COPPER TYPE K PIPE PER ASTM B88. IF PVC WATERLINE IS INDICATED ON THE PLANS IT SHALL MEET THE REQUIREMENTS OF AWWA C-900, CLASS 200.
- ALL WATERLINES SHALL HAVE A MINIMUM OF 3.5 FEET OF COVER.
- TESTING NOTES:

PRESSURE:
LEAKAGE SHALL NOT EXCEED THE MAXIMUM ALLOWABLE LEAKAGE SPECIFIED IN AWWA C 600. MINIMUM TEST PRESSURE SHALL BE 150 PSI FOR DOMESTIC AND 200 PSI FOR FIRE PROTECTION.

BACTERIOLOGICAL:
TWO SAMPLES FOR BACTERIOLOGICAL SAMPLING SHALL BE COLLECTED AT LEAST 24 HOURS APART. IF CONTAMINATION IS INDICATED, THEN THE DISINFECTION PROCEDURE AND TESTING SHALL BE REPEATED UNTIL SATISFACTORY RESULTS ARE OBTAINED.
- THE CHLORINE IN HEAVILY CHLORINATED WATER FLUSHED FROM MAINS NEEDS TO BE NEUTRALIZED BEFORE DISCHARGE. CONTRACTORS SHALL NEUTRALIZE HEAVILY CHLORINATED WATER FLUSHED FROM MAINS PRIOR TO DISCHARGE OR TRANSPORT ALL HEAVILY CHLORINATED WATER OFFSITE FOR PROPER DISPOSAL.
- PAINT VALVE COVERS, FIRE HYDRANTS AND OTHER WATER APPARATUS TO MEET THE LOCAL JURISDICTIONAL REQUIREMENTS.



- STANDARD UTILITY NOTES (AS APPLICABLE):
- ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK, CURRENT EDITION)
 - UTILITY SEPARATION REQUIREMENTS:
 - A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL.
 - WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.
 - WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATERMAIN, DIP MATERIALS OR STEEL EASEMENT EXTENDED 10' ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS.
 - 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER.
 - MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN CROSSINGS, MAINTAIN 24" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS, WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (PER CORPUD DETAILS W-41 & S-49)
 - ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION REQUIRED.
 - ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24 HOUR ADVANCE NOTICE TO THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT.
 - 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCEMAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.
 - IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT PER CORPUD HANDBOOK PROCEDURE.
 - INSTALL 1/2" COPPER WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2'X2' WATERLINE EASEMENT IMMEDIATELY ADJACENT. NOTE: IT IS THE APPLICANT'S RESPONSIBILITY TO PROPERLY SIZE THE WATER SERVICE FOR EACH CONNECTION TO PROVIDE ADEQUATE FLOW & PRESSURE.
 - INSTALL 4" PVC SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM.
 - PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI. BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAM MANHOLE.
 - ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDWQ, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO CONSTRUCTION.
 - NCDOT RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION.
 - CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA. THESE GUIDELINES ARE THE MINIMUM REQUIREMENTS. THE DEVICES SHALL MEET AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS OR BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST. APPROVAL OF THE DEVICES SHALL BE INSTALLED AND TESTED (BOTH INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE LOCAL CROSS-CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. CONTACT JOANIE HARTLEY AT (919) 996-5923 OR JOANIE.HARTLEY@RALEIGHNC.GOV FOR MORE INFORMATION.

SEPARATION OF SANITARY SEWERS AND STORM SEWERS:

- A 24" VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN STORM SEWER AND SANITARY SEWER LINES OR BOTH THE SANITARY AND THE STORM LINES SHALL BE CONSTRUCTED OF FERROUS MATERIALS.

SEWER NOTES:

- ALL PVC SEWER PIPES ARE TO BE SDR-35 SPEC, UNLESS SPECIFIED OTHERWISE.
- SANITARY SEWER CLEANOUTS LOCATED IN PAVEMENT AREAS SHALL BE HEAVY DUTY TRAFFIC BEARING CASTINGS.
- UNLESS OTHERWISE NOTED, ALL SANITARY SEWER MANHOLES ARE 4' DIA.
- MANHOLES LOCATED IN PAVEMENT, CONCRETE OR OTHER TRAFFIC AREAS SHALL BE SET AT GRADE. MANHOLES LOCATED IN OTHER AREAS (I.E. GRASS OR WOODED AREAS) SHALL HAVE THEIR RIMS RAISED SIX INCHES ABOVE THE SURROUNDING GRADE. MANHOLES SUBJECT TO POSSIBLE WATER INFILTRATION SHALL HAVE WATERTIGHT, BOLTED LIDS.
- MINIMUM REQUIRED SLOPES FOR SEWER SERVICES:
 - 4" SEWER SERVICE - 2.00% SLOPE
 - 6" SEWER SERVICE - 1.00% SLOPE
 - 8" SEWER SERVICE - 0.50% SLOPE
- UNLESS OTHERWISE NOTED, LOCATE SANITARY SERVICE CLEANOUTS AT ALL HORIZONTAL OR VERTICAL CHANGES IN DIRECTION. MAXIMUM SPACING BETWEEN CLEANOUTS SHALL BE 75 FEET.
- SEWER LINES LESS THAN 3 FEET OF COVER SHALL BE CLASS 50 DUCTILE IRON PIPE. SEWER LINES WITH GREATER THAN 3 FEET OF COVER SHALL BE AS NOTED BELOW:
 - 4" SEWER SERVICE - SCH 80
 - 6" SEWER SERVICE - SCH 80
 - 8" SEWER SERVICE - SDR-35
- SEWER LINES UNDER CONSTRUCTION SHALL BE PROTECTED FROM DIRT, DEBRIS OR OTHER CONTAMINANTS ENTERING THE NEW SYSTEM. A MECHANICAL PLUG SHALL BE UTILIZED BOTH IMMEDIATELY UPSTREAM OF THE NEW CONSTRUCTION AND AT THE FIRST MANHOLE DOWNSTREAM IN THE EXISTING SYSTEM. EXISTING STRUCTURES, PIPING AND APPURTENANCES SHALL BE PROTECTED FROM ANY INFLOW OF WATER, DIRT OR DEBRIS DUE TO NEW CONSTRUCTION CONNECTING TO OR IN THE VICINITY OF THE EXISTING SYSTEM. CONTRACTOR TO REMOVE DEBRIS AND PLUG PRIOR TO OCCUPANCY.
- ALL MANHOLES COVERS SHALL BE PAINTED TO LOCAL JURISDICTIONAL REQUIREMENTS.

**SITE PERMITTING APPROVAL
 CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION**

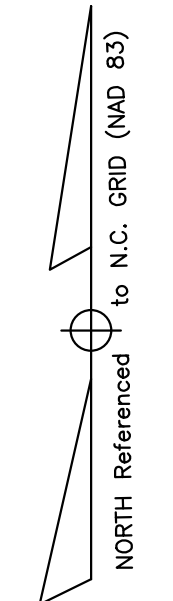
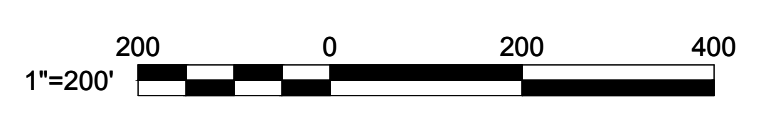
Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval
 Raleigh Water Review Officer

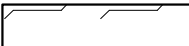
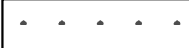



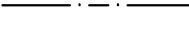


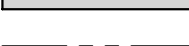



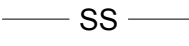

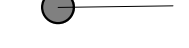


REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
02	CONSTRUCTION DOCUMENTS 2ND SUBMITTAL	08/14/2020
01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020
REV	DESCRIPTION	DATE
	REVISIONS	

PHASING SUMMARY

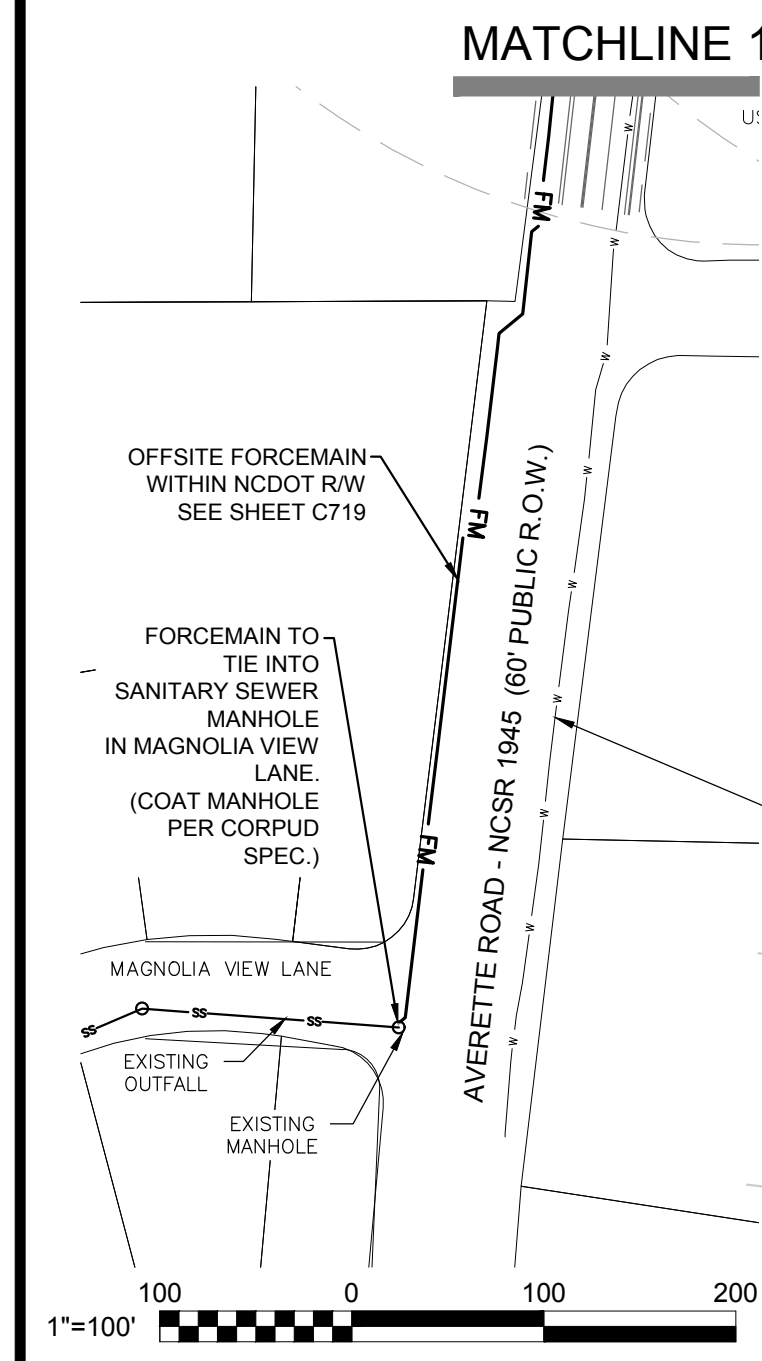
PHASE 1 AREA	91.40 ACRES
PHASE 1 OPEN SPACE	36.57 ACRES (40.01%)
PHASE 2 AREA	80.13 ACRES
PHASE 2 OPEN SPACE	32.10 ACRES (40.06%)



LEGEND:

-  EXISTING POND
-  EXISTING WETLANDS
-  PROPOSED PHASING LINE
-  EXISTING TOWN OF ROLESVILLE ETJ
-  EXISTING STREAM
-  50' STREAM AND POND RIPARIAN BUFFER
-  DEDICATED PRIMARY PROTECTED OPEN SPACE
-  DEDICATED SECONDARY PROTECTED OPEN SPACE
-  PROPOSED ASPHALT PAVEMENT
-  PROPOSED RIGHT OF WAY
-  PROPOSED SETBACK
-  PROPOSED EASEMENT
-  W PROPOSED WATER MAIN
-  SS PROPOSED SEWER MAIN
-  FM PROPOSED FORCE MAIN
-  PROPOSED 4" SEWER SERVICE
-  PROPOSED 3" WATER SERVICE

UB 8517 PG 2/38
 ZONED R-40W
 USE: CEMETERY



REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
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SITE PERMITTING APPROVAL
 CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval
 Raleigh Water Review Officer



Bateman Civil Survey Company
 Engineers • Surveyors • Planners
 2524 Reliance Avenue, Apex, North Carolina 27539
 Phone: 919.577.1080 Fax: 919.577.1081
 NCBELS FIRM No. C-2378

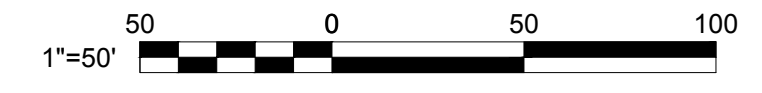


CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION

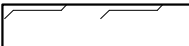
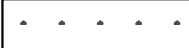



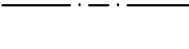


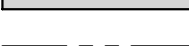



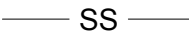


WEST
 UTILITY PLAN

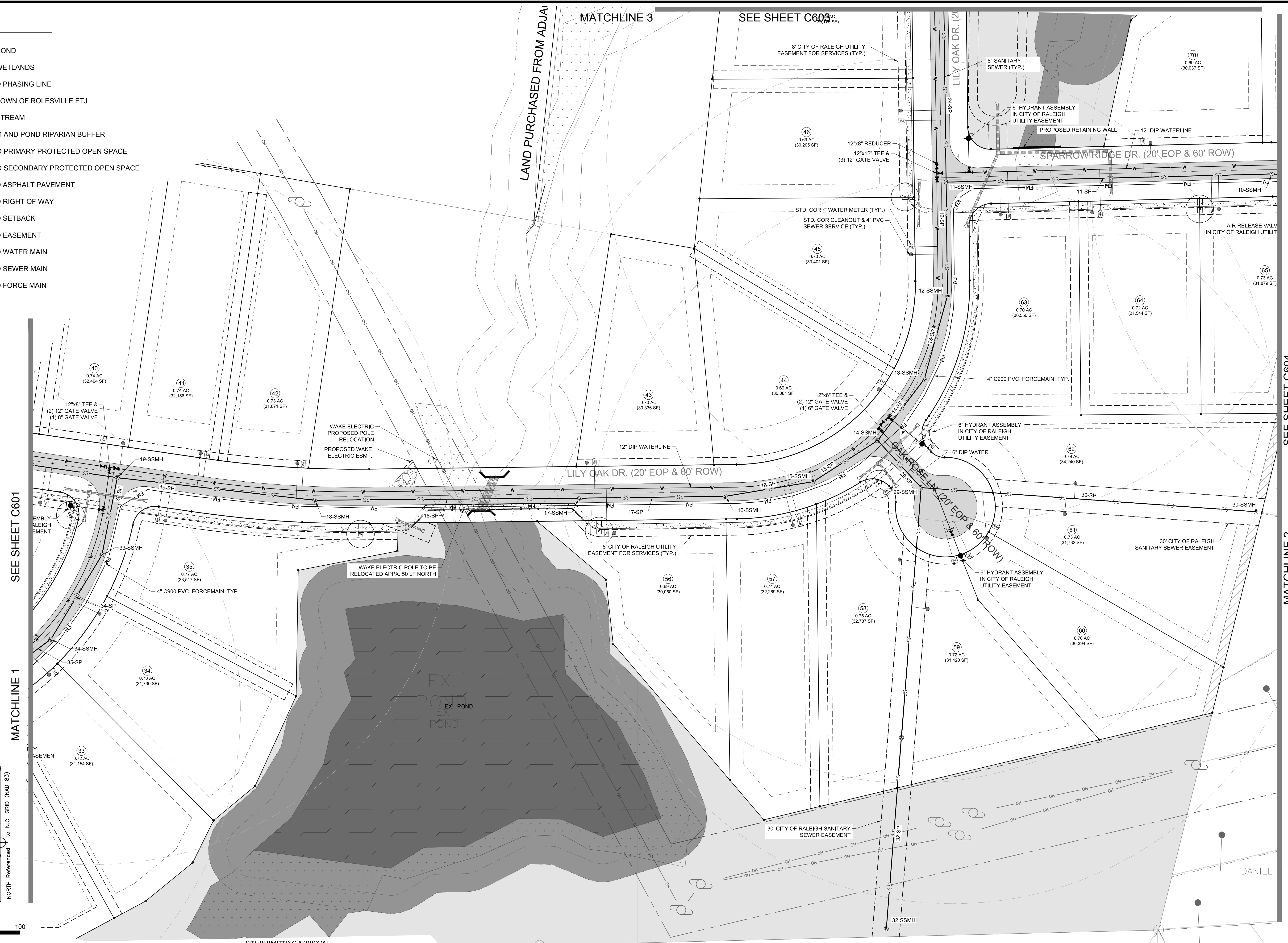
Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 50'
Date:	09/08/2020
Project Number:	P170347
SHEET	
C601	

MATCHLINE 2 SEE SHEET C602



LEGEND:

-  EXISTING POND
-  EXISTING WETLANDS
-  PROPOSED PHASING LINE
-  EXISTING TOWN OF ROLESVILLE ETJ
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-  PROPOSED RIGHT OF WAY
-  PROPOSED SETBACK
-  PROPOSED EASEMENT
-  PROPOSED WATER MAIN
-  PROPOSED SEWER MAIN
-  PROPOSED FORCE MAIN



SEE SHEET C601

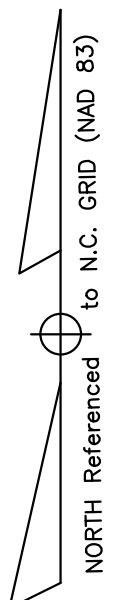
MATCHLINE 1

MATCHLINE 3

SEE SHEET C603

SEE SHEET C604

MATCHLINE 2



SITE PERMITTING APPROVAL
CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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City of Raleigh Development Approval
Raleigh Water Review Officer

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	REVISIONS	



Bateman Civil Survey Company
Engineers • Surveyors • Planners
2524 Reliance Avenue, Apex, North Carolina 27539
Phone: 919.577.1080 Fax: 919.577.1081
NCBELS FIRM No. C-2378



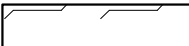
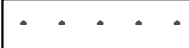



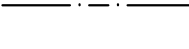


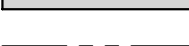



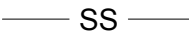


CHANDLER'S RIDGE
CONSTRUCTION DOCUMENTS
CONSERVATION SUBDIVISION
410 W. YOUNG ST.
ROLESVILLE, NC
WAKE COUNTY

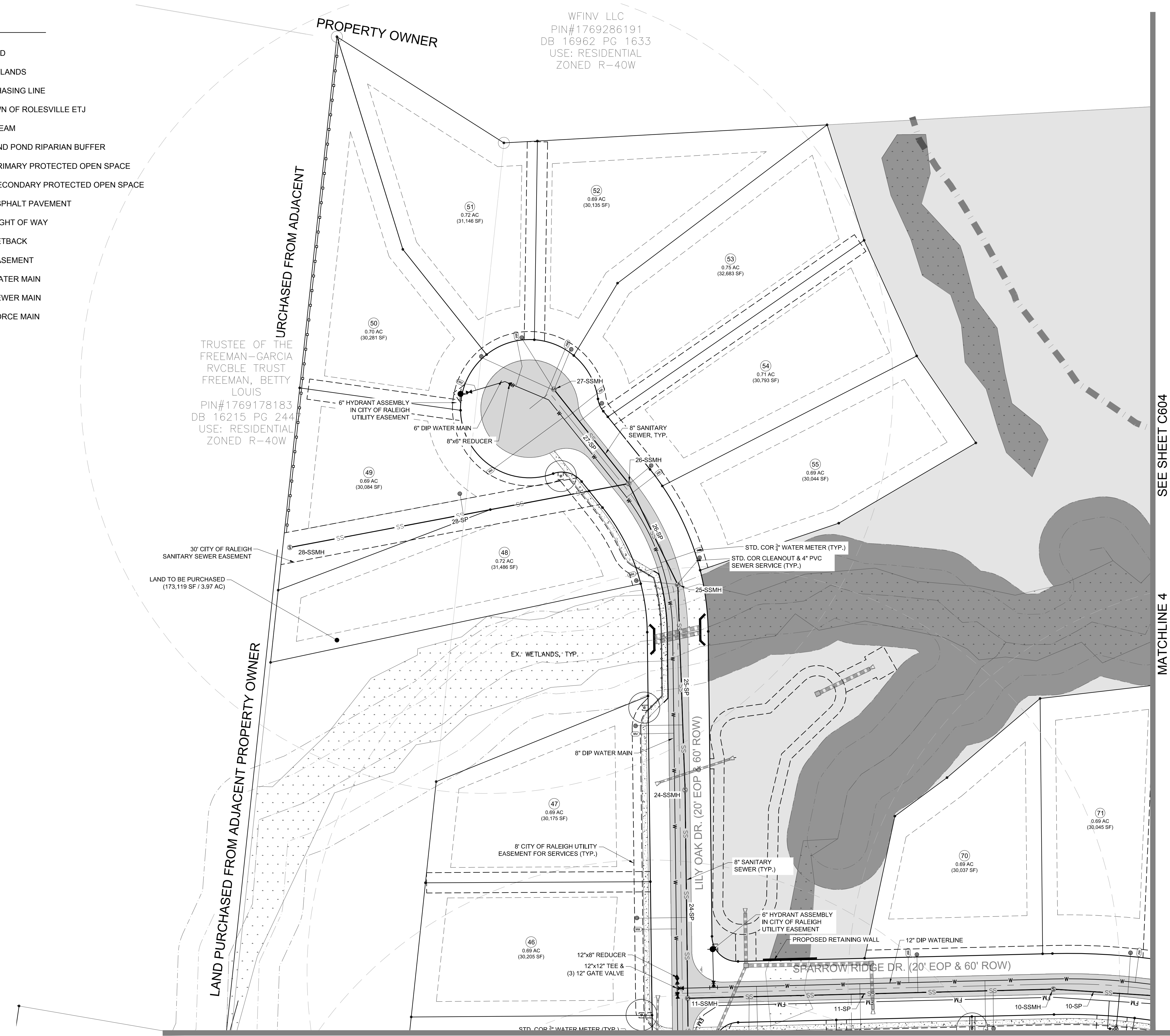
WEST
UTILITY PLAN

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 50'
Date:	09/08/2020
Project Number:	P170347

SHEET
C602

LEGEND:

-  EXISTING POND
-  EXISTING WETLANDS
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-  DEDICATED SECONDARY PROTECTED OPEN SPACE
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-  PROPOSED RIGHT OF WAY
-  PROPOSED SETBACK
-  PROPOSED EASEMENT
-  W PROPOSED WATER MAIN
-  SS PROPOSED SEWER MAIN
-  FM PROPOSED FORCE MAIN



WFINV LLC
 PIN#1769286191
 DB 16962 PG 1633
 USE: RESIDENTIAL
 ZONED R-40W

TRUSTEE OF THE
 FREEMAN-GARCIA
 RVCBLT TRUST
 FREEMAN, BETTY
 LOUIS
 PIN#1769178183
 DB 16215 PG 244
 USE: RESIDENTIAL
 ZONED R-40W

LAND TO BE PURCHASED
 (173,119 SF / 3.97 AC)

LAND PURCHASED FROM ADJACENT PROPERTY OWNER

URCHASED FROM ADJACENT

SEE SHEET C604

MATCHLINE 4

MATCHLINE 3

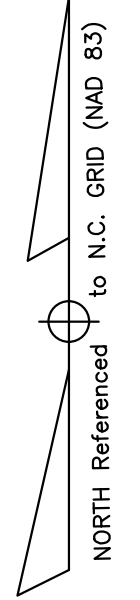
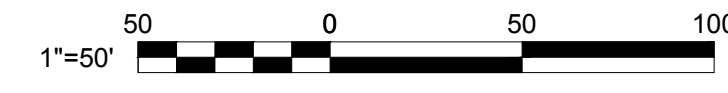
SEE SHEET C602

REV	DESCRIPTION	DATE
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01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020
	REVISIONS	

SITE PERMITTING APPROVAL
 CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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City of Raleigh Development Approval
 Raleigh Water Review Officer



Bateman Civil Survey Company
 Engineers • Surveyors • Planners
 2524 Reliance Avenue, Apex, North Carolina 27539
 Phone: 919.577.1080 Fax: 919.577.1081
 NCBELS FIRM No. C-2378



CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION

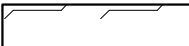
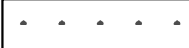



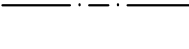


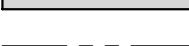



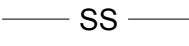


410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY

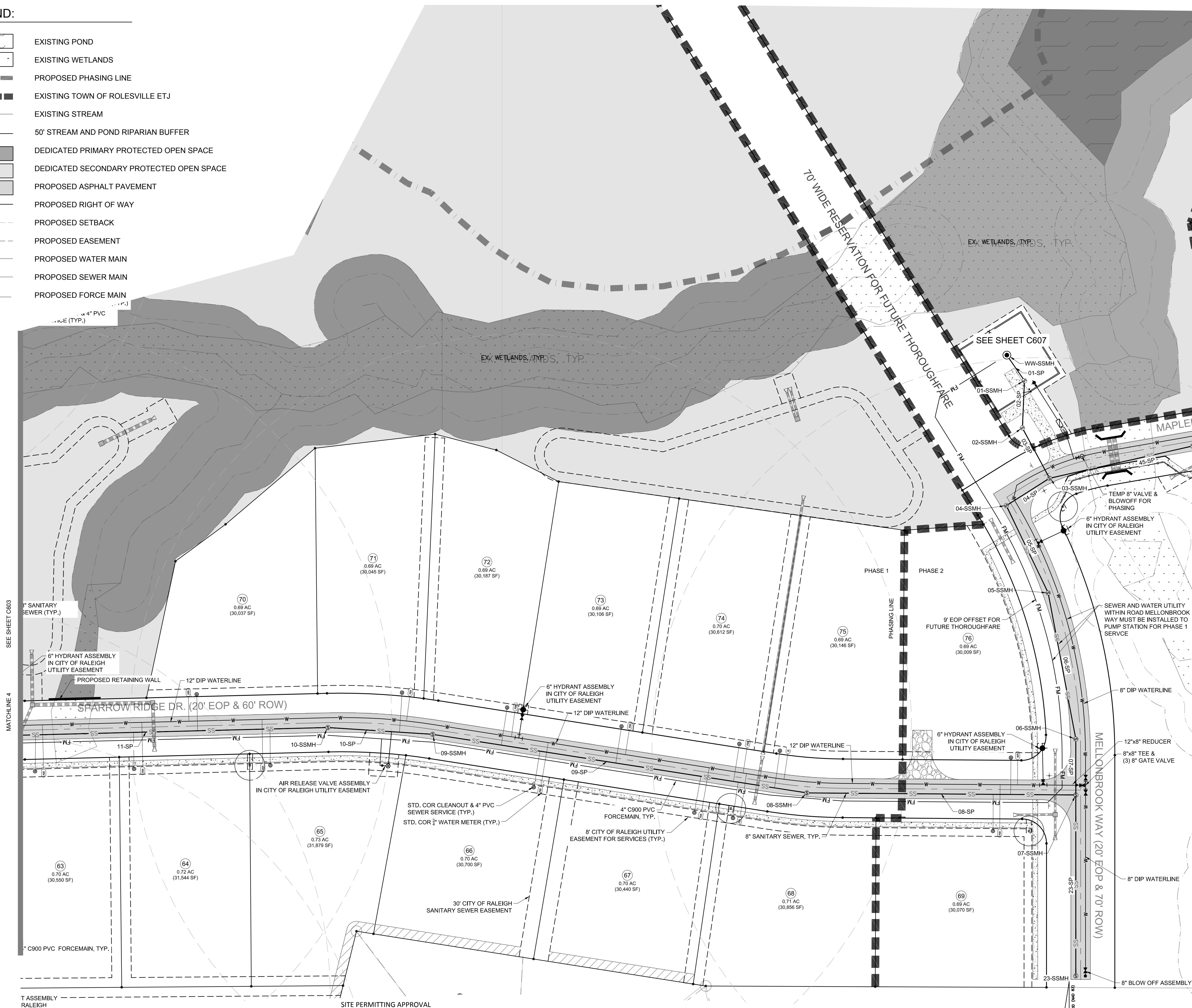
WEST
 UTILITY PLAN

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 50'
Date:	09/08/2020
Project Number:	P170347
SHEET	
C603	

P:\2017 Projects\170347 Chandlers Ridge\Eng\CADD\DWG\TP SHEET\TP_170347_C600 UTILITIES.dwg

LEGEND:

-  EXISTING POND
-  EXISTING WETLANDS
-  PROPOSED PHASING LINE
-  EXISTING TOWN OF ROLESVILLE ETJ
-  EXISTING STREAM
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-  PROPOSED RIGHT OF WAY
-  PROPOSED SETBACK
-  PROPOSED EASEMENT
-  PROPOSED WATER MAIN
-  PROPOSED SEWER MAIN
-  PROPOSED FORCE MAIN



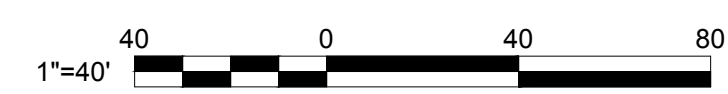
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REV	DESCRIPTION	DATE
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SITE PERMITTING APPROVAL
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City of Raleigh Development Approval
 Raleigh Water Review Officer



Bateman Civil Survey Company
 Engineers • Surveyors • Planners
 2524 Reliance Avenue, Apex, North Carolina 27539
 Phone: 919.577.1080 Fax: 919.577.1081
 NCBELS FIRM No. C-2378



CHANDLER'S RIDGE
CONSTRUCTION DOCUMENTS
CONSERVATION SUBDIVISION

410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY

EAST
UTILITY PLAN

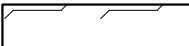
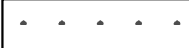



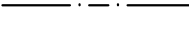


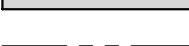



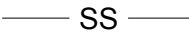


Project Engineer: TSS
 Designed By: TEP
 Drawn By: TEP
 Checked By: TSS
 Scale: 1" = 50'

Date: 09/08/2020

Project Number: P170347

SHEET
C604

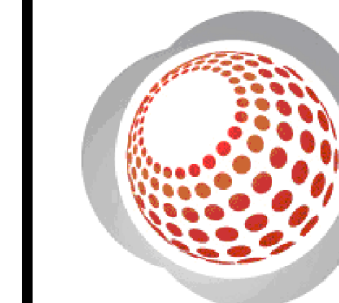
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-  PROPOSED SETBACK
-  PROPOSED EASEMENT
-  PROPOSED WATER MAIN
-  PROPOSED SEWER MAIN
-  PROPOSED FORCE MAIN

JAMES ALLISON PRIVETTE
 PIN#1769568511
 DB 3443 PG 973
 USE: RESIDENTIAL
 ZONED R-40W



Bateman Civil Survey Company
 Engineers • Surveyors • Planners
 2524 Reliance Avenue, Apex, North Carolina 27539
 Phone: 919.577.1080 Fax: 919.577.1081
 NCBELS FIRM No. C-2378



CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION

410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY

EAST
 UTILITY PLAN

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 50'
Date:	09/08/2020
Project Number:	P170347

SHEET
C605

P:\2017 Projects\170347 Chandlers Ridge\Eng\CADD\DWG\TP SHEET\TP_170347_C605_UTILITIES.dwg

SEWER AND WATER UTILITY WITHIN ROAD MELLONBROOK WAY MUST BE INSTALLED TO PUMP STATION FOR PHASE 1 SERVICE

8" DIP WATERLINE

12"x8" REDUCER

8"x8" TEE & (3) 8" GATE VALVE

MELLONBROOK WAY (20' EOP & 70' ROW)

8" DIP WATERLINE

8" BLOW OFF ASSEMBLY

23-SSMH

07-SSMH

06-SSMH

05-SSMH

04-SSMH

03-SSMH

02-SSMH

01-SSMH

00-SSMH

RONNIE E. & MELINDA J. BRISSON
 PIN#1769369129
 DB 9084 PG 1732
 USE: RESIDENTIAL
 ZONED R-40W

SYLVIA W. PEARCE & JAMES H. WILLIAMS
 PIN#1769455529
 DB 8734 PG 41
 USE: RESIDENTIAL
 ZONED R-40W

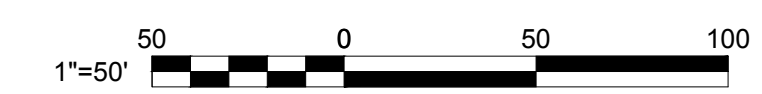
ROY L. WILLIAMS
 PIN#1769458842
 DB 8344 PG 853
 USE: RESIDENTIAL
 ZONED R-40W

SITE PERMITTING APPROVAL
 CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

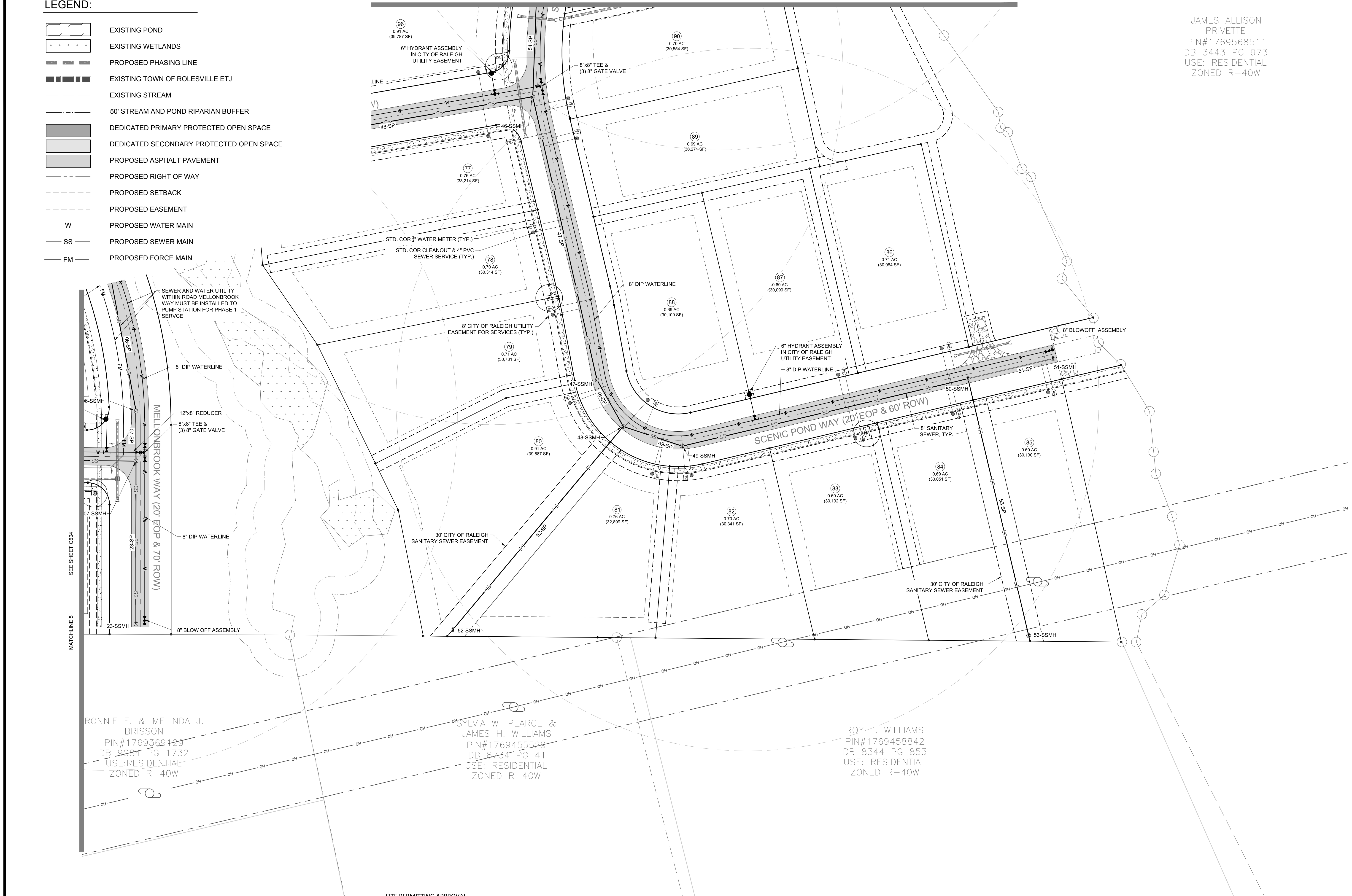
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City of Raleigh Development Approval
 Raleigh Water Review Officer

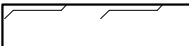
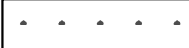



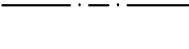


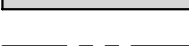



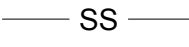


REV	DESCRIPTION	DATE
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02	CONSTRUCTION DOCUMENTS 2ND SUBMITTAL	08/14/2020
01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020
REV	REVISIONS	

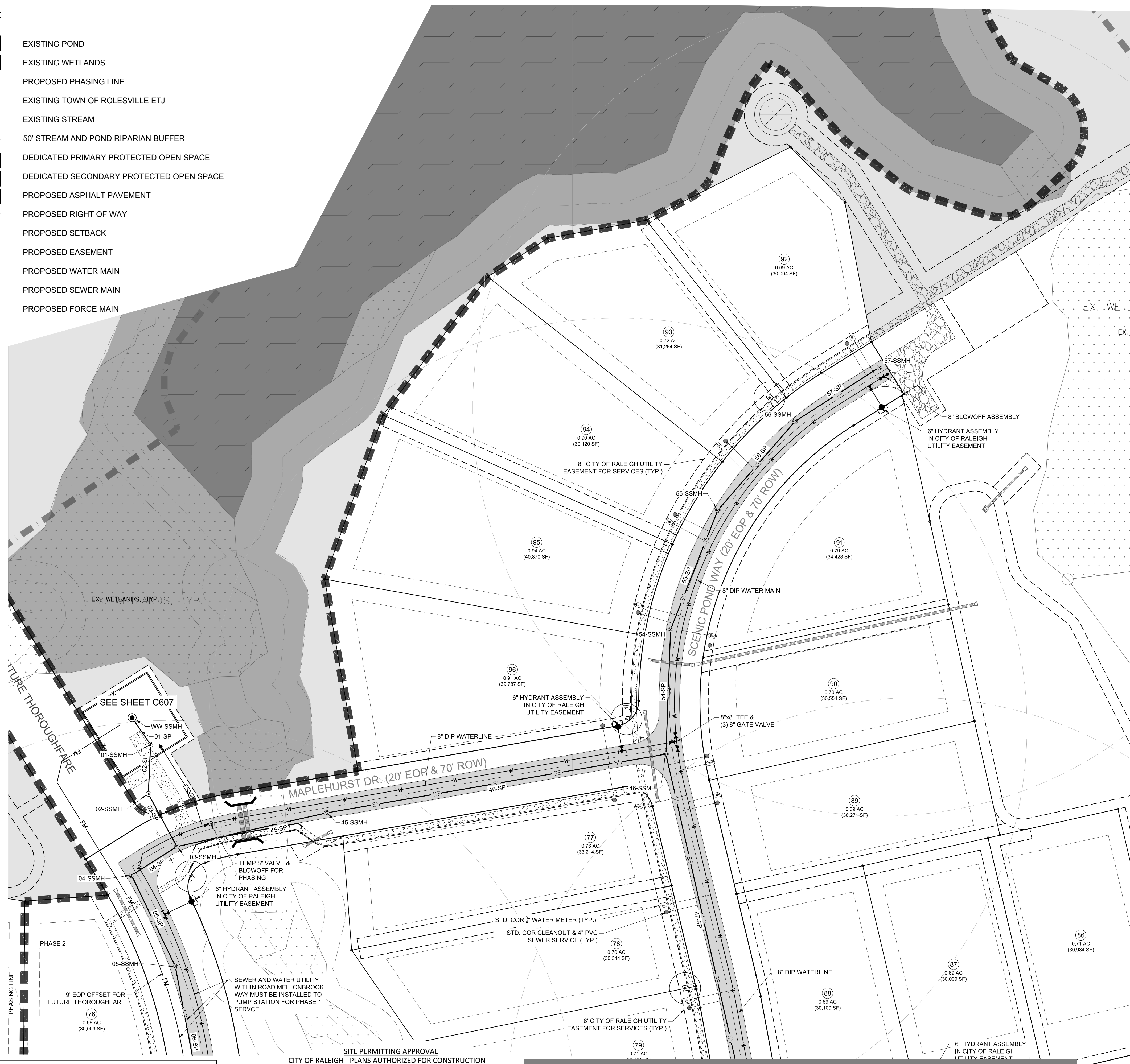


NORTH Referenced to N.C. GRID (NAD 83)



LEGEND:

-  EXISTING POND
-  EXISTING WETLANDS
-  PROPOSED PHASING LINE
-  EXISTING TOWN OF ROLESVILLE ETJ
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-  DEDICATED SECONDARY PROTECTED OPEN SPACE
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-  PROPOSED RIGHT OF WAY
-  PROPOSED SETBACK
-  PROPOSED EASEMENT
-  W PROPOSED WATER MAIN
-  SS PROPOSED SEWER MAIN
-  FM PROPOSED FORCE MAIN



P:\2017 Projects\170347 Chandlers Ridge\CADD\DWG\TP SHEET\TP_170347_C600_UTILITIES.dwg

REV	DESCRIPTION	DATE
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	REVISIONS	

SITE PERMITTING APPROVAL
CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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City of Raleigh Development Approval _____
 Raleigh Water Review Officer

SITE PERMITTING APPROVAL

Water and Sewer Permits (if applicable)

The City of Raleigh consents to the connection and extension of the City's **Public Sewer System** as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. **City of Raleigh Public Utilities Department Permit # _____**

The City of Raleigh consents to the connection and extension of the City's **Public Water System** as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. **City of Raleigh Public Utilities Department Permit # _____**

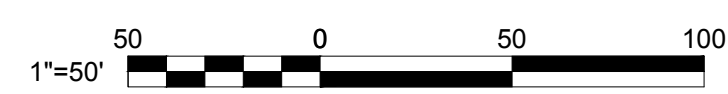
The City of Raleigh consents to the connection to its public sewer system and extension of the **private sewer collection system** as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh Public Utilities Department Permit # _____

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval _____
 Raleigh Water Review Officer



NORTH Referenced to N.C. GRID (NAD 83)



Bateman Civil Survey Company
 Engineers • Surveyors • Planners
 2824 Reliance Avenue, Apex, North Carolina 27539
 Phone: 919.577.1080 Fax: 919.577.1081
 NCBELS FIRN No. C-2378



CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION

410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY

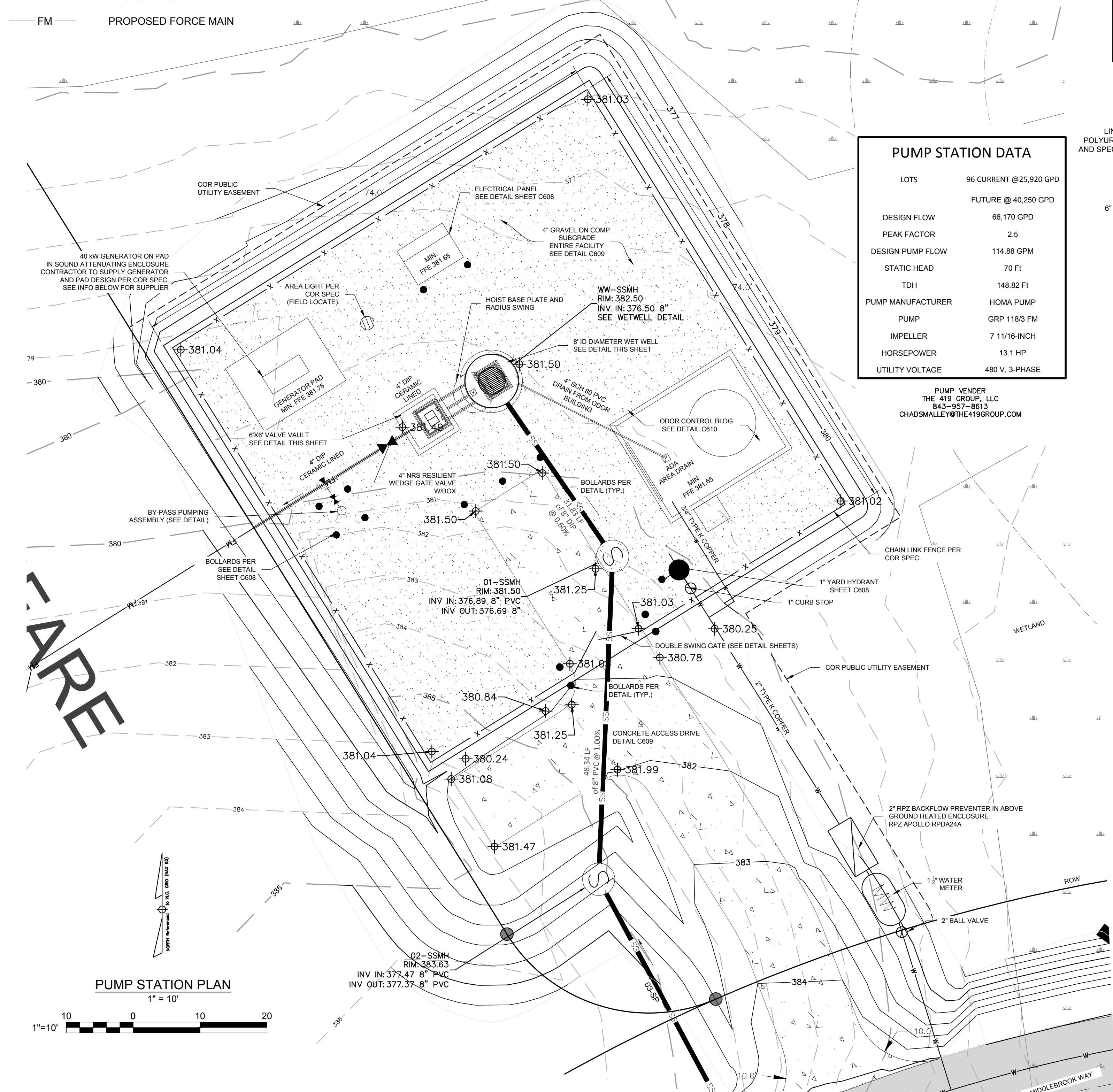
EAST
UTILITY PLAN

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 50'
Date:	09/08/2020
Project Number:	P170347
SHEET	
C606	

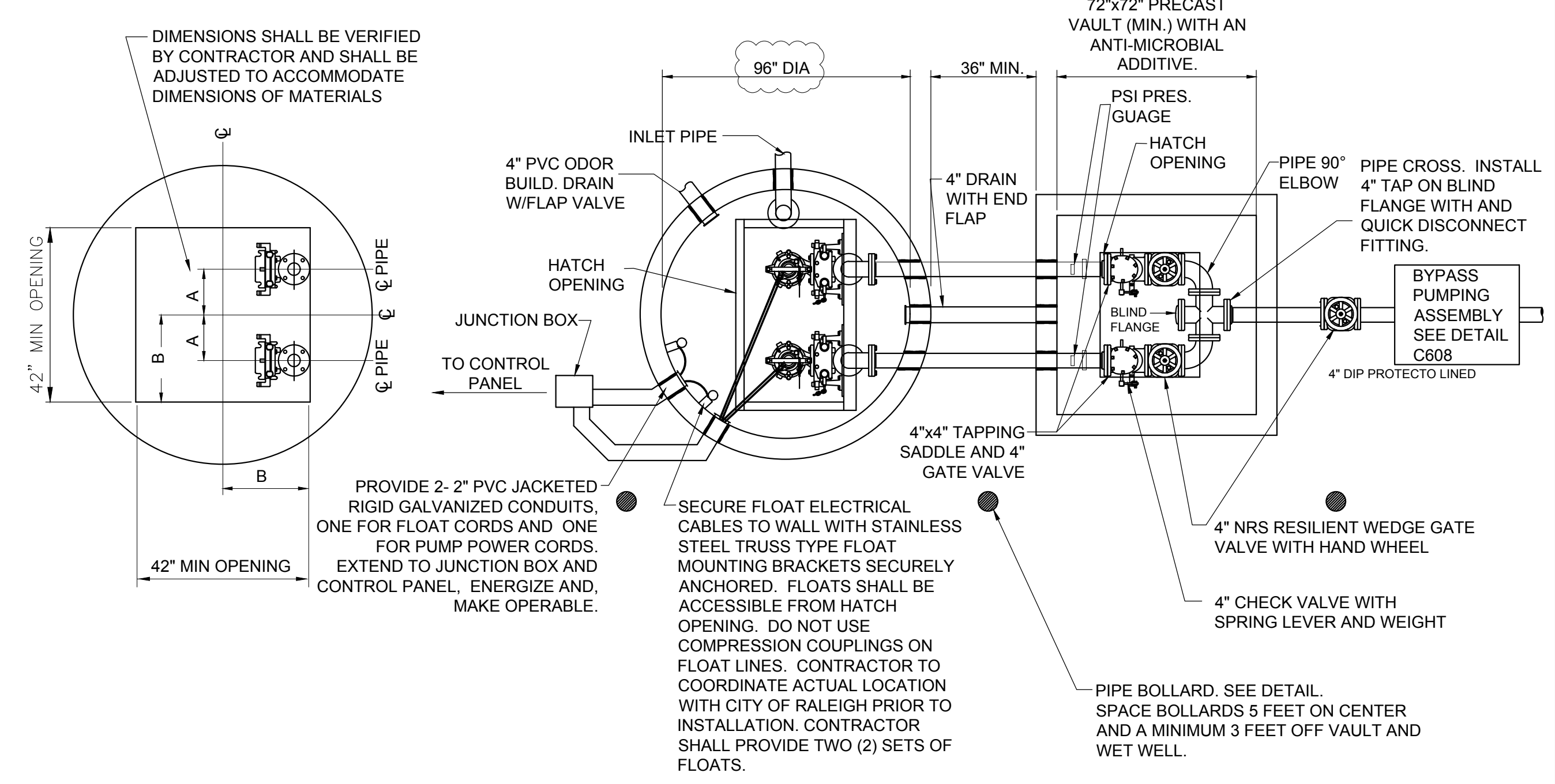
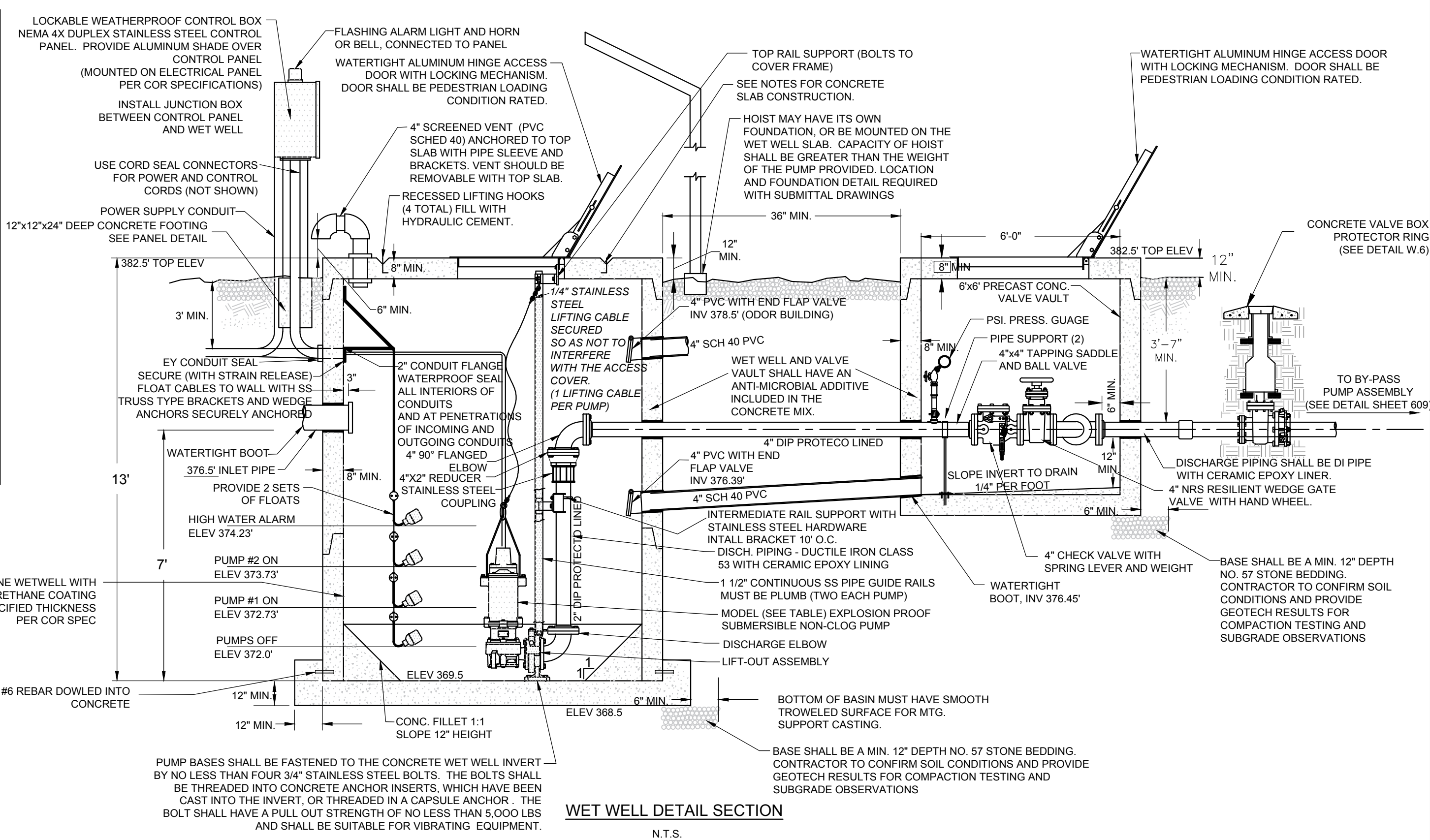
LEGEND:

- EXISTING POND
- EXISTING WETLANDS
- PROPOSED PHASING LINE
- EXISTING TOWN OF ROLESVILLE ETJ
- EXISTING STREAM
- 50' STREAM AND POND RIPARIAN BUFFER
- PROPOSED RIGHT OF WAY
- PROPOSED SETBACK
- PROPOSED EASEMENT
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED FORCE MAIN

- LIFT STATION NOTES**
1. CONCRETE SHALL BE 4,000PSI COMPRESSION STRENGTH.
 2. MANHOLE SHALL MEET REQUIREMENTS OF ASTM C-478.
 3. ALL ELECTRICAL MATERIAL AND INSTALLATION SHALL BE BY A LICENSED ELECTRICIAN AND IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, AND RULES AND REGULATIONS OF LOCAL AUTHORITIES HAVING JURISDICTION. MATERIALS SHALL BE LISTED OR LABELED BY THE UNDERWRITERS LABORATORIES STANDARDS. ALL WIRE TO BE COMPLETED PER COR SPECIFICATIONS.
 4. LIFT STATION MANHOLE CONCRETE SLAB AND HATCH SHALL BE MANUFACTURED TO WITHSTAND H-20 LOADING CONDITIONS.
 5. MANUFACTURER SHALL BE REQUIRED TO SUBMIT DESIGN CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER WITH SHOP DRAWINGS AND REVIEW SUBMITTAL.
 6. SHOP DRAWINGS AND WIRING DIAGRAMS SHALL BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT. ALL WIRING PER COR STANDARDS.
 7. ENGINEER TO APPROVE FOUNDATION BED BEFORE SETTING MANHOLES. FOUNDATION SHALL BE 9" DIA. AND 12" DEPTH NO. 57 STONE BEDDING.
 8. CONTRACTOR IS TO PROVIDE DE-WATERING EQUIPMENT AS REQUIRED FOR CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
 9. HATCH DOORS AND CONTROL PANEL BOX SHALL BE LOCKABLE AND KEYPAD TO CORPUD MASTER LOCK SYSTEM. CONTRACTOR SHALL FURNISH 3 LOCKS AND KEYS.
 10. CONTRACTOR SHALL INSTALL ALL OWNER FURNISHED EQUIPMENT AND PROVIDE START UP SERVICE (MINIMUM 2 DAYS).
 11. CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT, MATERIALS, AND INCIDENTALS REQUIRED TO MAKE THE LIFT STATION FULLY OPERATIONAL AND IN ACCORDANCE WITH CORPUD STANDARDS.
 12. RECESSED LIFTING HOOKS SHALL BE PLACED IN CONCRETE WET WELL COVER. CONTROL PANEL BOX SHALL BE ANCHORED IN 12"x24" DEEP CONCRETE FOOTING.
 13. CONTRACTOR SHALL PROVIDE ALL NECESSARY LUBRICANTS FOR STARTUP AND SHALL ASSIST THE EQUIPMENT MANUFACTURER AND OWNER WITH INITIAL STARTUP (MINIMUM 2 DAYS).
 14. PIPEWORK SHALL BE ASSEMBLED, INSTALLED, AND FULLY SUPPORTED SO AS NOT TO PUT A STRAIN ON THE PUMPING EQUIPMENT, PIPE FITTINGS AND ELBOWS.
 15. ALL THRU-THE-WALL SLEEVES AND CARRIER PIPES INTO THE WET WELL SHALL BE INSTALLED ABSOLUTELY WATERTIGHT WITH NO SIGNS OF SEEPAGE OR INFILTRATION.
 16. ENTIRE SITE SHALL BE FENCED FOR SECURITY. CONTRACTOR SHALL PROVIDE LOCKS FOR GATE OPENING.
 17. ALL HANGERS, CLAMPS, FLANGE BOLTS, AND CONNECTIONS SHALL BE STAINLESS STEEL UNLESS OTHERWISE SPECIFIED. THESE ITEMS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
 18. ALL DIMENSIONS SHALL BE VERIFIED BY CONTRACTOR AND SHALL BE ADJUSTED TO ACCOMMODATE DIMENSIONS OF MATERIALS SUPPLIED BY CONTRACTOR AND OWNER.
 19. FLANGE FACES SHALL BE SERRATED.
 20. ALL WET WELLS SHALL BE INTERNALLY FACTORY LINED WITH A POLYUREA/POLYURETHANE COATING. DURAMER 1030 SHALL BE APPLIED IN ONE COAT OF A 20% SOLIDS, DEEPLY PENETRATING, DUAL-COMPONENT POLYUREA PRIMER (5-10 MILS DRY FILM THICKNESS, 150 FT 2/GAL), ONE INTERMEDIATE COAT OF A DUAL COMPONENT POLYUREA (60-100 MILS DRY FILM THICKNESS, 50 FT 2/GAL) AND ONE TOP COAT OF A 65% SOLIDS, TWO-PART POLYUREA (7.5-10 MILS DRY FILM THICKNESS, 125 FT 2/GAL). ALL COATS SHALL BE APPLIED BY BRUSH, SPRAY, OR ROLLER. SHERFLEX ELASTOMERIC POLYURETHANE SHALL BE APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. POLYUREA/POLYURETHANE COATINGS SHALL BE DURAMER 1030 AS MANUFACTURED BY SEWERKOTE, SHERFLEX ELASTOMERIC POLYURETHANE AS MANUFACTURED BY SHERWIN-WILLIAMS, OR APPROVED EQUAL.
 21. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH STANDARDS.
 22. ALL DUCTILE IRON PIPE SHALL HAVE AN INTERIOR LINING OF CERAMIC EPOXY (PROTECTO 401) OR APPROVED EQUAL.
 23. ALL BELOW GRADE FITTINGS SHALL BE MECHANICAL JOINT WITH RETAINING GLAND JOINT RESTRAINT (IE. MEGA-LUGS).
 24. ALL BELOW GRADE FITTINGS SHALL BE MECHANICAL JOINT WITH RETAINING GLAND JOINT RESTRAINT (IE. MEGA-LUGS).
 25. ALL CONSTRUCTION TO CONFIRM WITH COR SPECIFICATIONS.



PUMP STATION DATA	
LOTS	96 CURRENT @25,920 GPD
	FUTURE @40,250 GPD
DESIGN FLOW	66,170 GPD
PEAK FACTOR	2.5
DESIGN PUMP FLOW	114,88 GPM
STATIC HEAD	70 FT
TDH	148.82 FT
PUMP MANUFACTURER	HOMA PUMP
PUMP	GRP 118/3 FM
IMPELLER	7 11/16-INCH
HORSEPOWER	13.1 HP
UTILITY VOLTAGE	480 V, 3-PHASE



REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
02	CONSTRUCTION DOCUMENTS 2ND SUBMITTAL	08/14/2020
01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020
REV	DESCRIPTION	DATE

SITE PERMITTING APPROVAL
CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

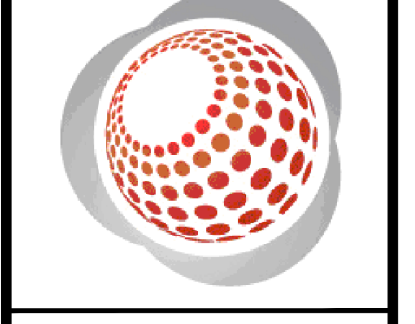
Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval
Raleigh Water Review Officer

CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL



Bateman Civil Survey Company
Engineers • Surveyors • Planners
2824 Reliance Avenue, Apex, North Carolina 27539
Phone: 919.577.1080 Fax: 919.577.1081
NCEBS FIRM No. C-2378

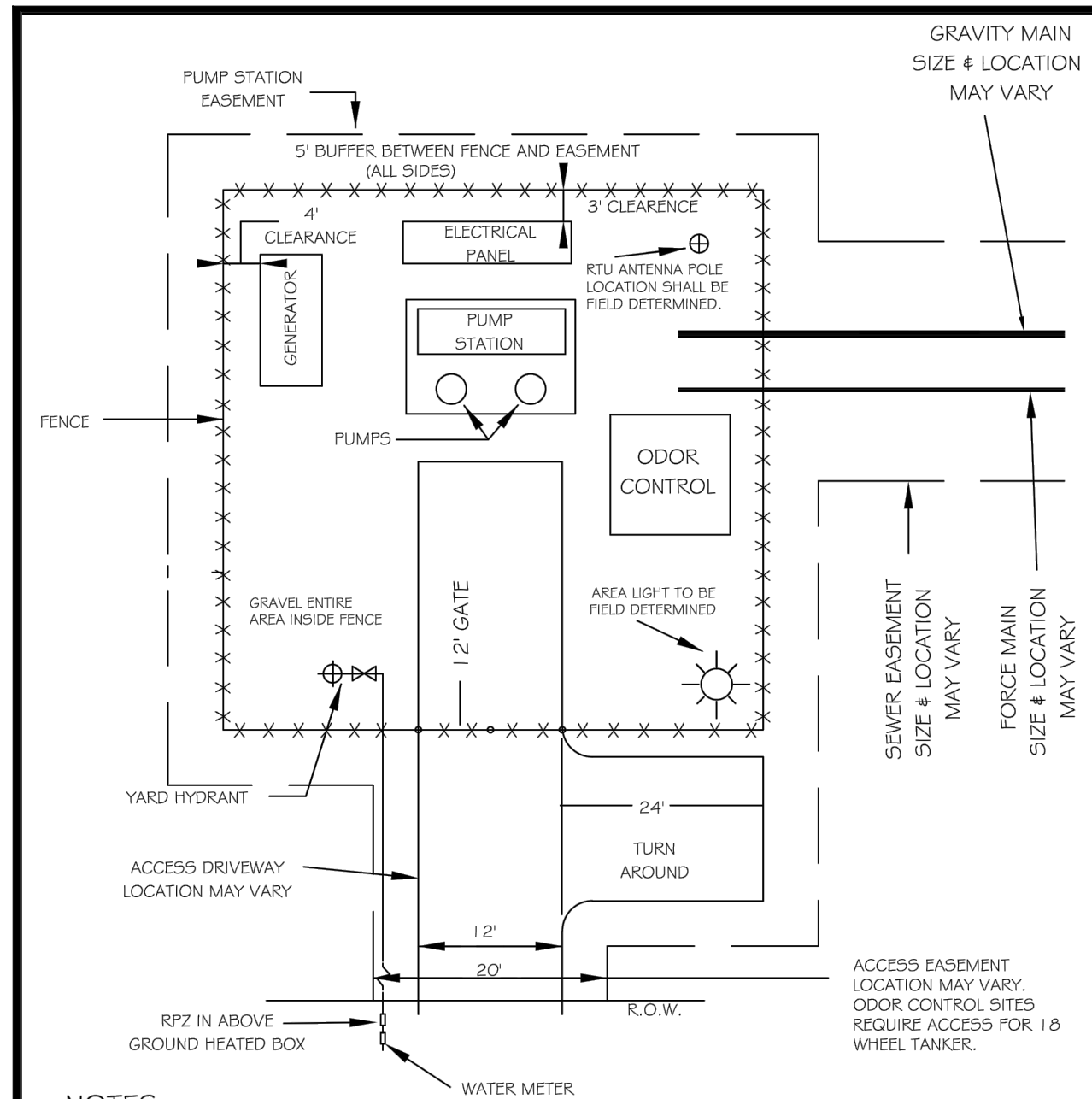


CHANDLER'S RIDGE
CONSERVATION DOCUMENTS
CONSERVATION SUBDIVISION

PUMP STATION
PLAN AND DETAILS

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	
Date:	09/08/2020
Project Number:	P170347
SHEET	
C607	

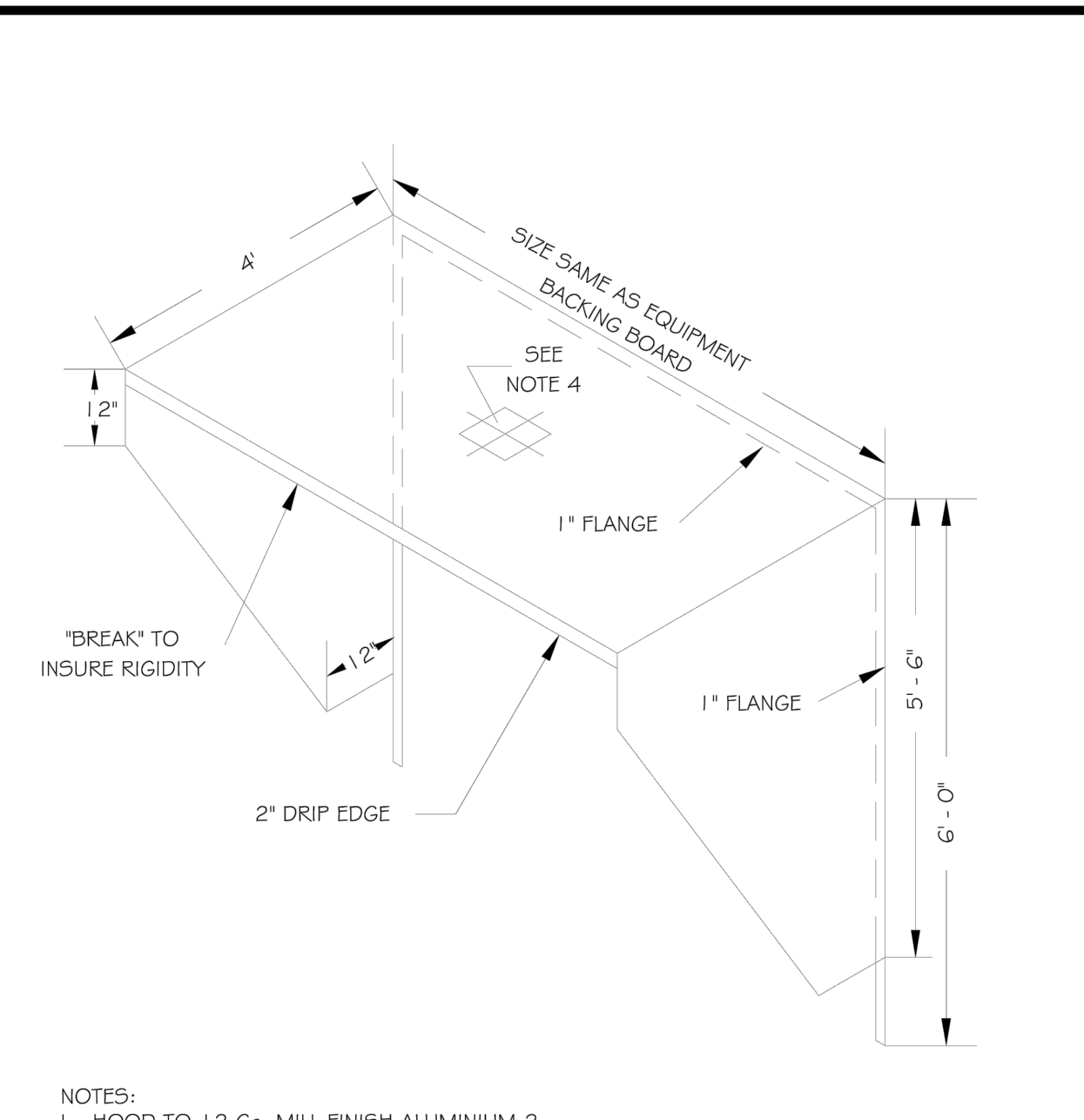
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NOTES:

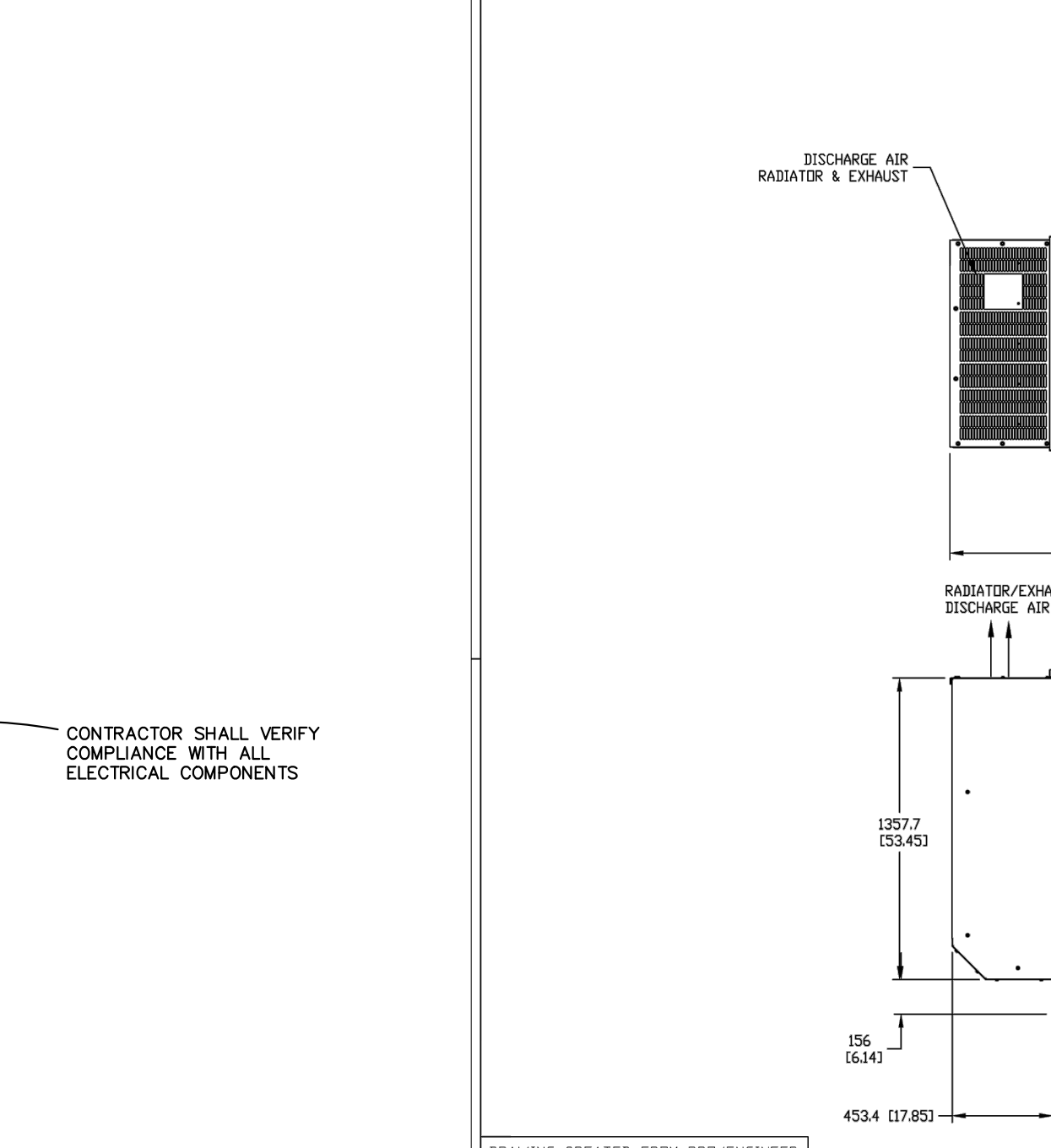
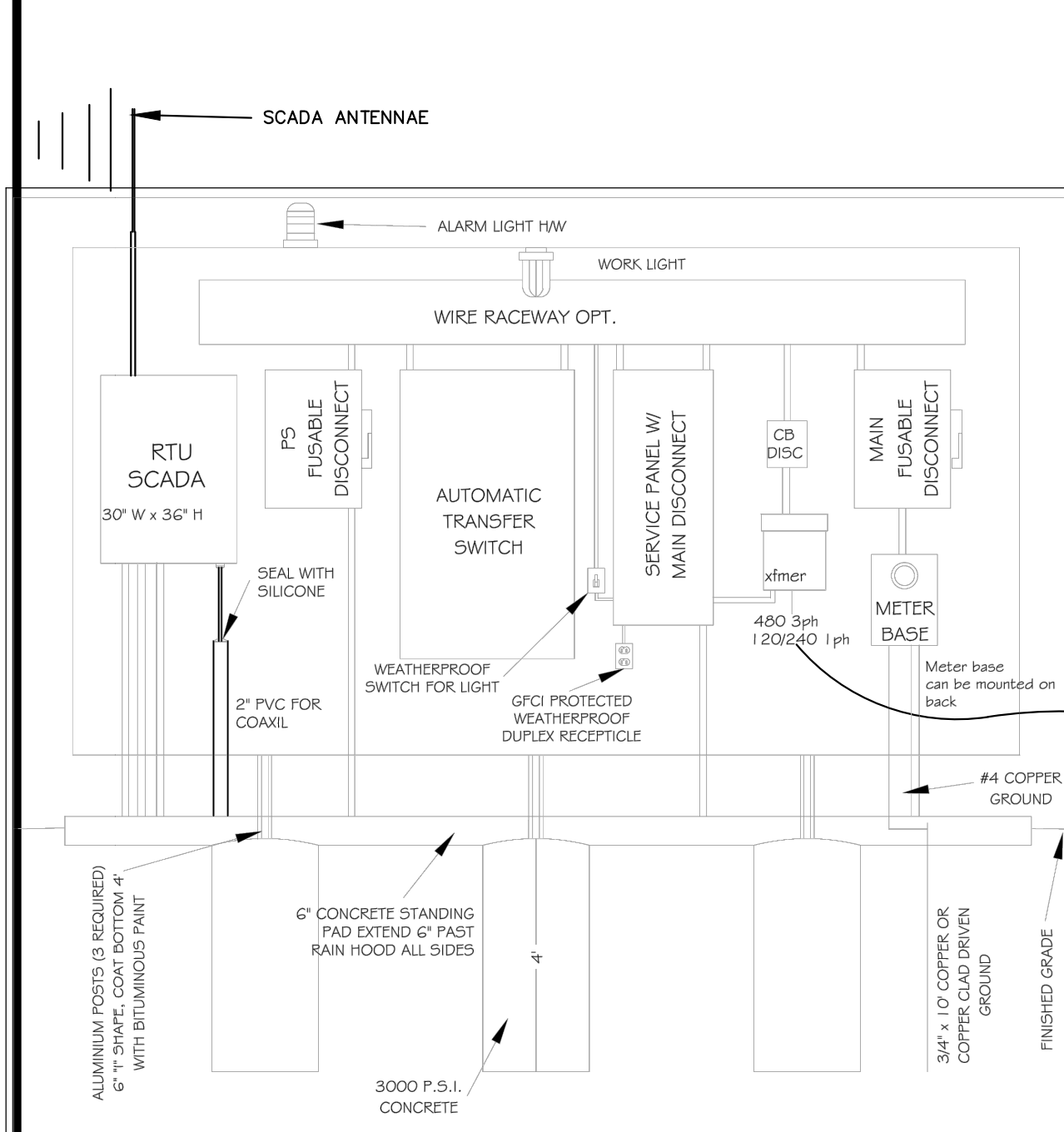
- PUMP STATION MUST MEET ALL ZONING SET-BACK REQUIREMENTS
- PUMP STATION MUST MEET ALL LANDSCAPING REQUIREMENTS
- WATER SERVICE FOR YARD HYDRANT MUST HAVE RPZ BACKFLOW PROTECTION. SIZE OF SERVICE MAY VARY
- PUMP STATION EASEMENT TO BE 60' MINIMUM
- EQUIPMENT LOCATIONS MAY VARY
- 5' BUFFER SHALL BE REQUIRED BETWEEN FENCE AND EASEMENT LINE.

* FOR ELECTRICAL PANEL REFER TO DETAILS 5-36 & 5-37



NOTES:

- HOOD TO 1/2 Ga. MILL FINISH ALUMINUM 2. HOOD TO BE HELIARC 'STITCH' WELDED TO 1/4\"/>



NOTES

- BACKING PLATE TO BE 1/4\"/>

* FOR WEATHER HOOD REFER TO DETAIL 5-37

CONTRACTOR SHALL VERIFY COMPLIANCE WITH ALL ELECTRICAL COMPONENTS

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
5-35	D.W.C. RRH	10-7-99	A.B.B.	2-16-05
5-36	D.W.C. RRH	10-7-99	LBN	10-19-04

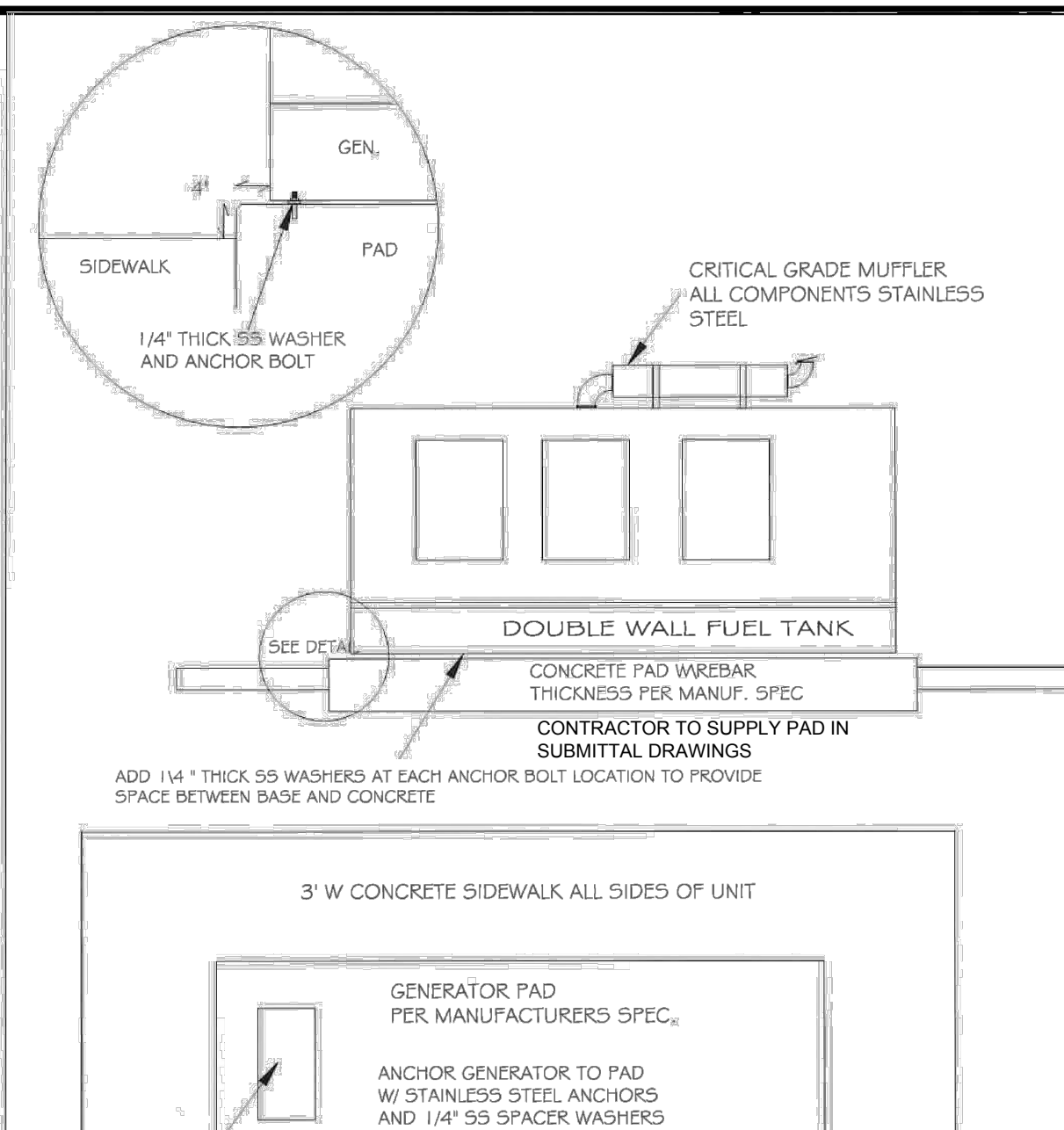
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
5-37	D.W.C. RRH	10-7-99	LBN	9-30-04
5-38	D.W.C. RRH	3-31-00	LBN	9-30-04

REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
02	CONSTRUCTION DOCUMENTS 2ND SUBMITTAL	08/14/2020
01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020

SITE PERMITTING APPROVAL
CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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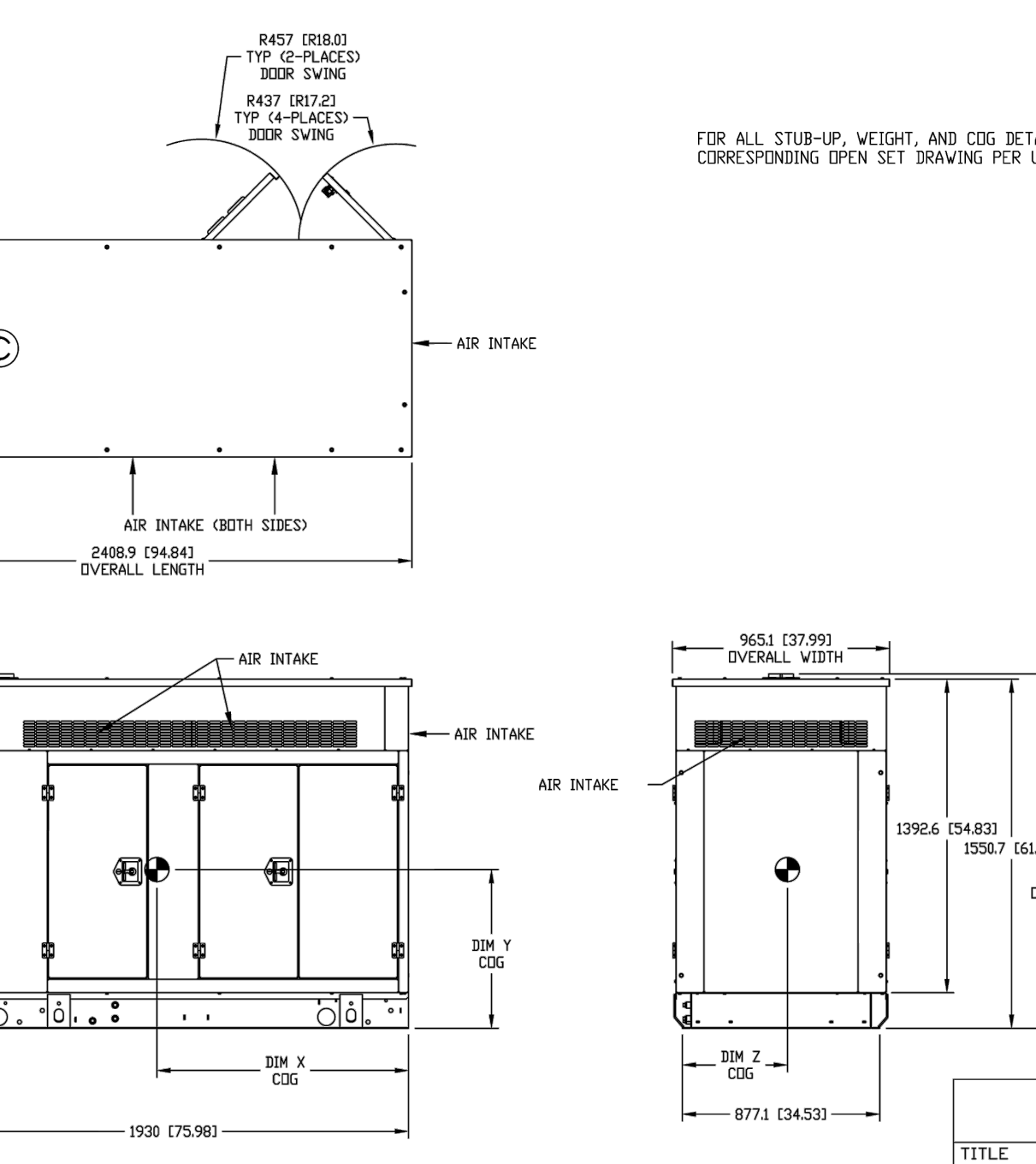
City of Raleigh Development Approval _____
 Raleigh Water Review Officer



GENERATOR PAD

CITY OF RALEIGH
 DEPARTMENT OF PUBLIC UTILITIES

DWG. NO. 5-48
 REVISIONS L.B.N.
 DATE 11-19-04



GENERAC

TITLE: L2A ENCLOSURE
 D4.5L 60HZ; SD035, PD032
 SD040, PD036, SD050, PD045

ISSUE DATE: 6/6/14
 CAGE NO: N/A
 DWG NO: 0J4311C
 SCALE: 0.036 WT-KG

GENERATOR SUMMARY:
 40 KW RATING, WIRED FOR 277 / 480 VAC THREE PHASE, 60 Hz PERMANENT MAGNET EXCITATION

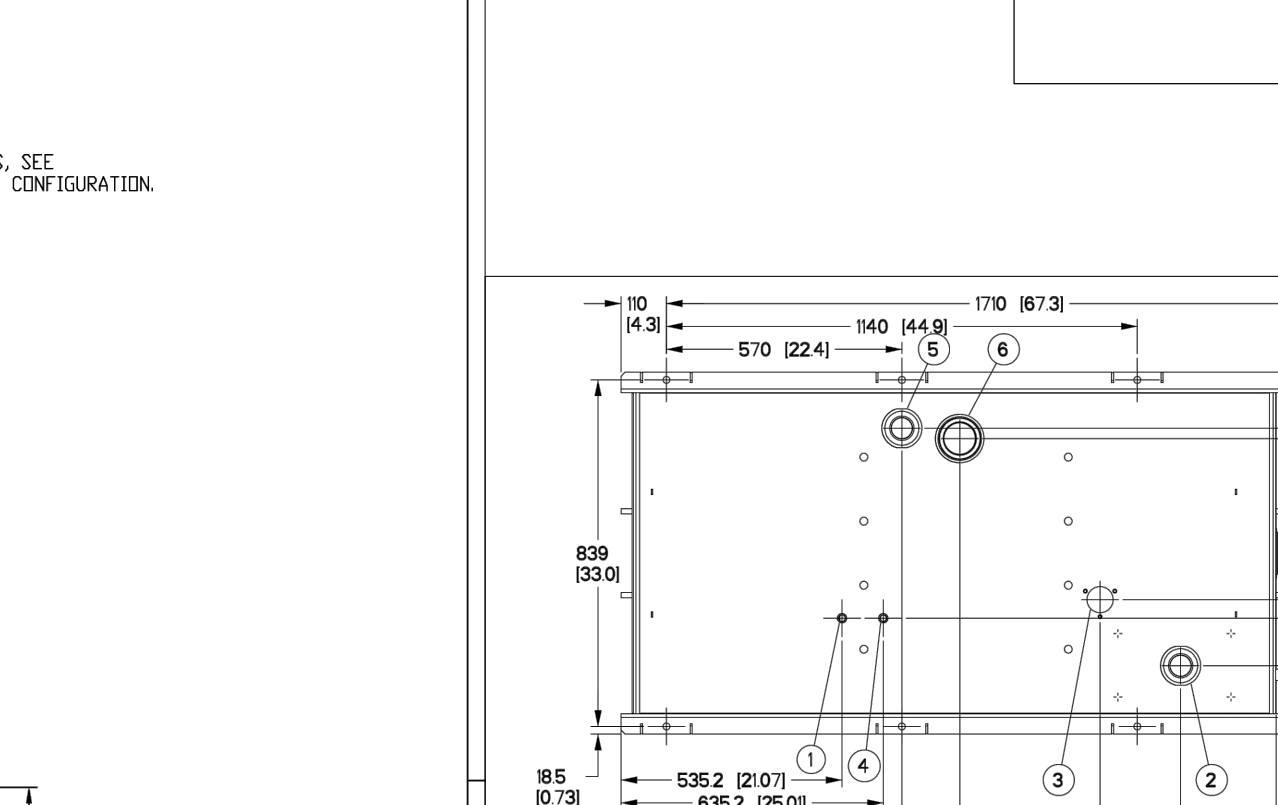
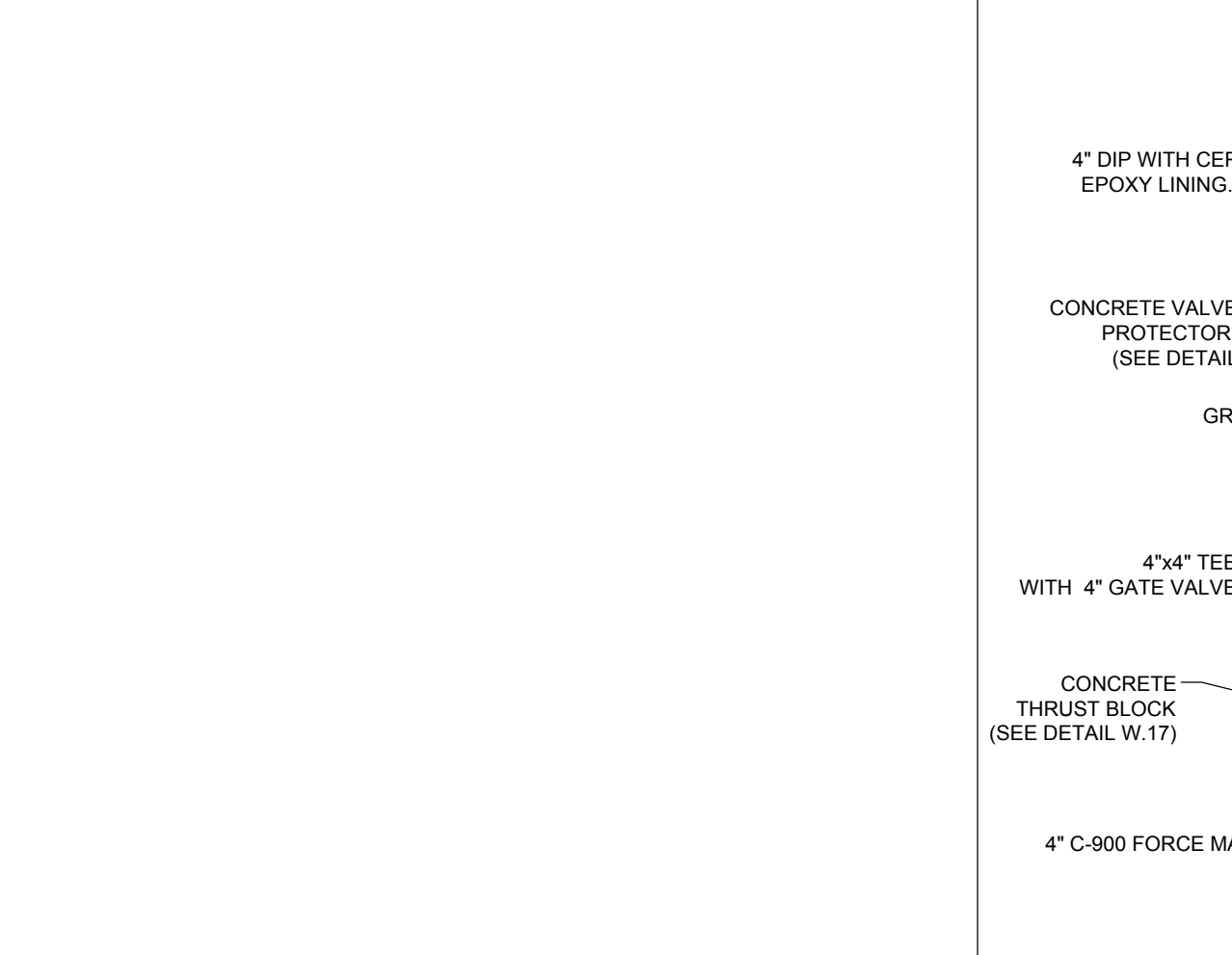
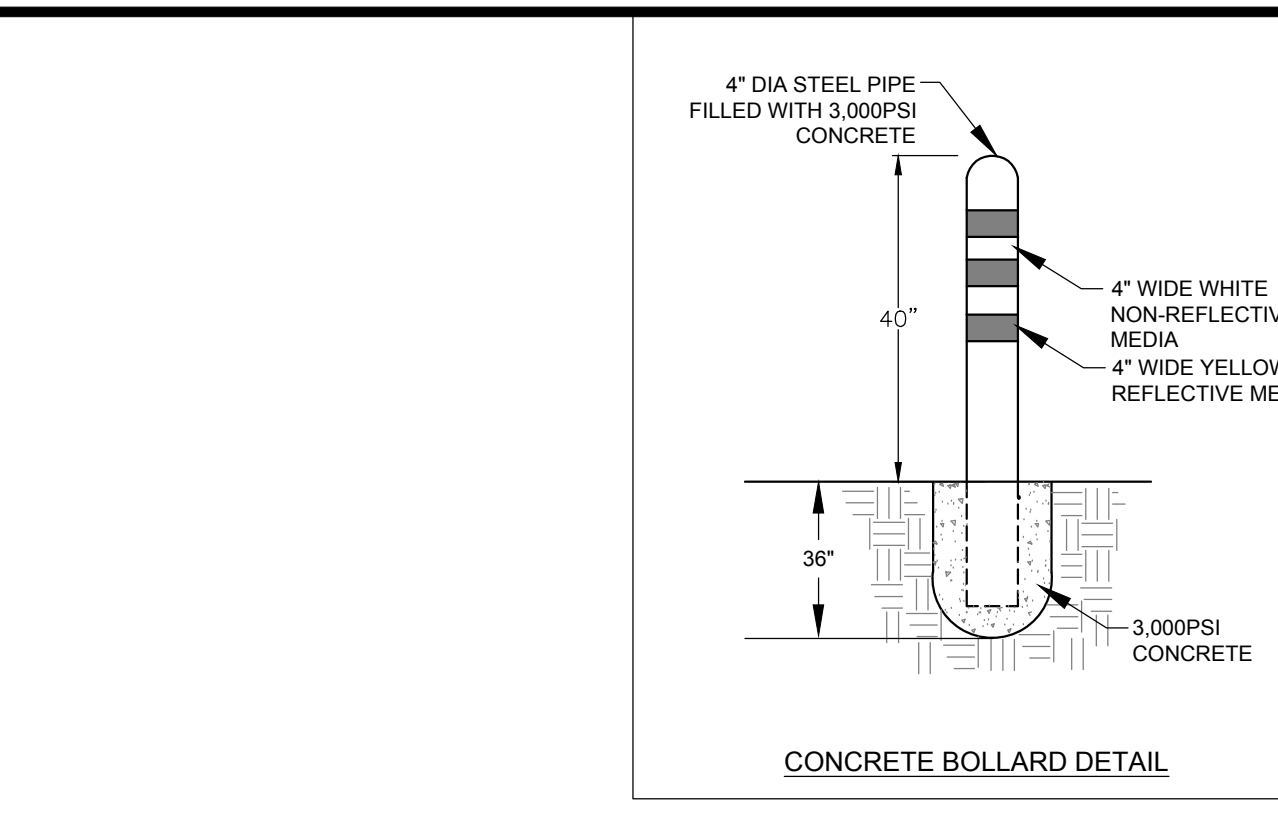
SEE SUPPLIER FOR INSTALL AND ORDER:
 JOHN DIXON
 9187415149
 JOHN.DIXON@NATPOW.COM

SCADA

CONTACT:
 Cesar Hernandez
 Project Manager
 CITL LLC
 600 Pinner Weald Way, Ste-102
 Cary, NC 27513
 M 704.779.8991
 P 704.969.2484 ext.1305
 cesar@citol-llc.com

SCADA TOWER NOTES:

- DESIGN ENGINEER SHALL COORDINATE WITH CORPUS TO CONDUCT A RADIO SURVEY OF THE PROPOSED LIFT STATION SITE.
- THE TOWER HEIGHT SHALL BE AS REQUIRED, BASED ON THE RADIO SURVEY.
- DESIGN ENGINEER SHALL PROVIDE A SITE SPECIFIC DESIGN FOR THE SCADA TOWER AND ITS FOUNDATION.
- DESIGN ENGINEER SHALL COORDINATE WITH THE APPLICABLE INSPECTION OFFICE REGARDING THE HEIGHT AND DESIGN OF THE SCADA TOWER.



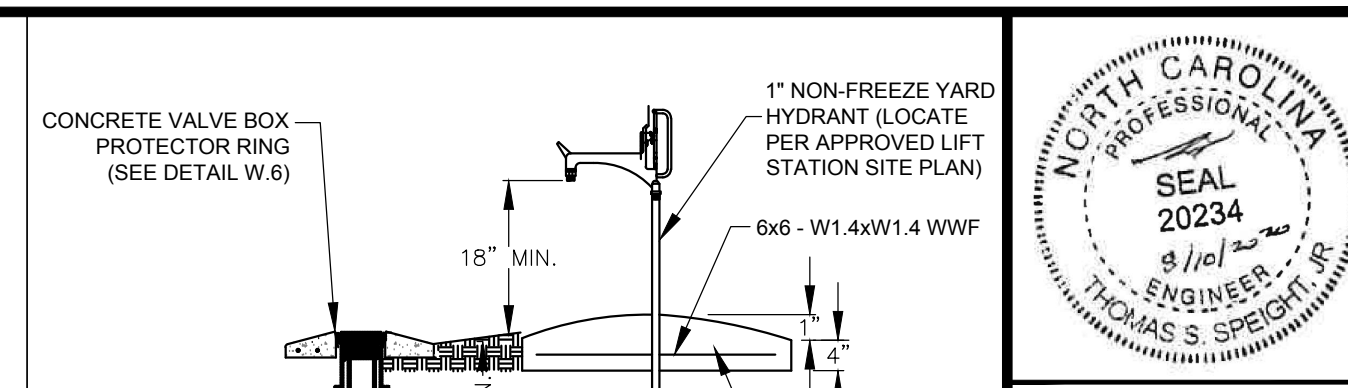
TANK FITTING	PROVIDING FUNCTION
1 3/8\"/>	
2 2\"/>	
3 3\"/>	
4 3/8\"/>	
5 2\"/>	
6 3\"/>	
7 3/4\"/>	
8 1/2\"/>	
9 3\"/>	

TANK P/N	Q1984405T03	Q1984505T03	Q1984605T03
DM A	330 (13)	636 (25)	940 (37)
TOTAL CAPACITY	227 (60)	524 (198)	820 (27)
USABLE CAPACITY	204 (76)	501 (192)	799 (27)
DRY WEIGHT	216 (48)	522 (170)	417 (89)

INSTALLATION DRAWING

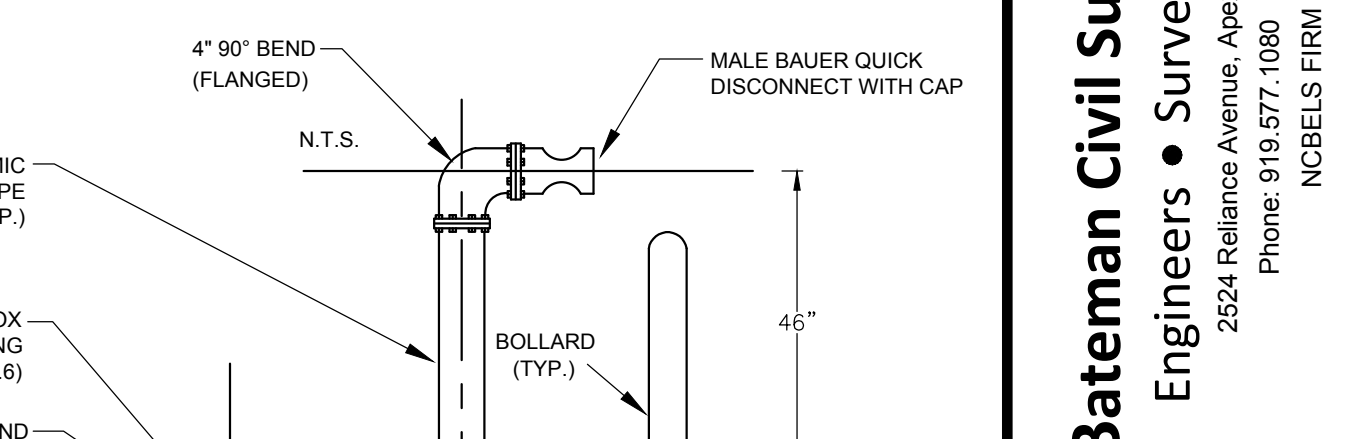
TITLE: INSTALL BASE TANK A-GRP D4.5L

ISSUE DATE: 6/6/14
 SCALE: 0.036 WT-KG



Bateman Civil Survey Company
 Engineers • Surveyors • Planners

2524 Reliance Avenue, Apex, North Carolina 27539
 Phone: 919.577.1080 Fax: 919.577.1081
 NCBELS FIRM No. C-2378



CHANDLER'S RIDGE CONSERVATION SUBDIVISION

410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY

PUMP STATION DETAILS

Project Engineer: TSS
 Designed By: TEP
 Drawn By: TEP
 Checked By: TSS
 Scale:

Date: 09/08/2020
 Project Number: P170347

SHEET
C608

ACCESS HATCH
(OR AS APPROVED BY ENGINEER)

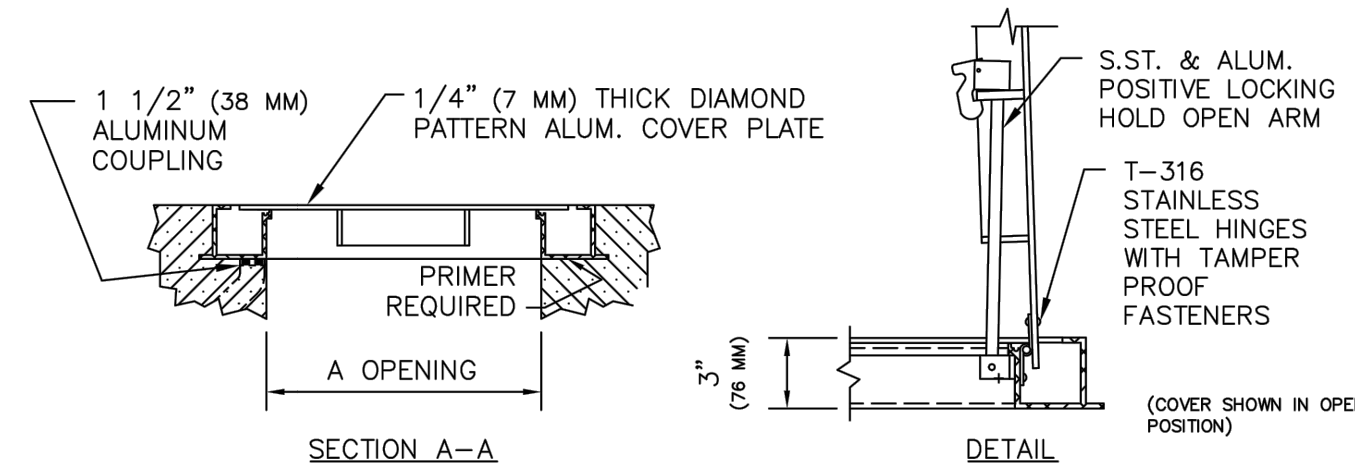
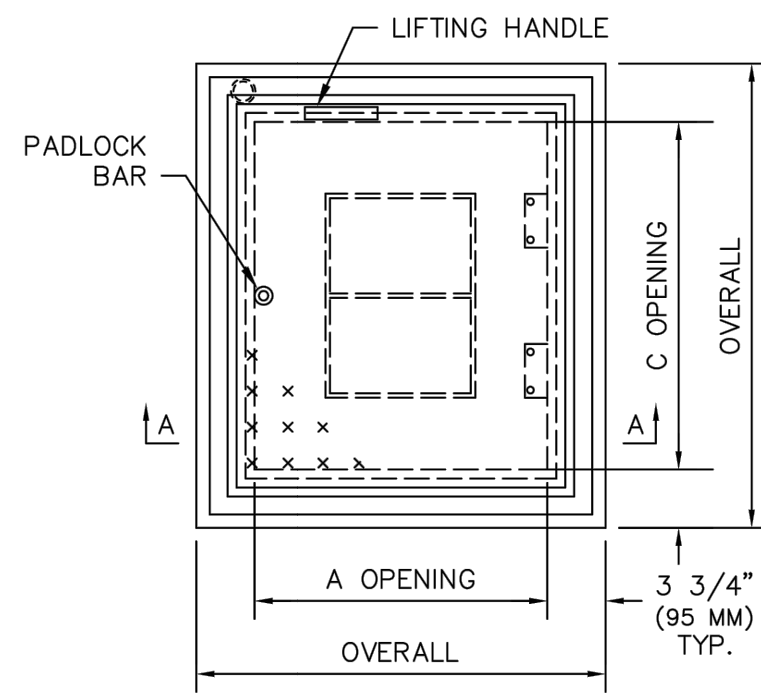
SERIES W1R ACCESS DOOR

STANDARD FEATURES:

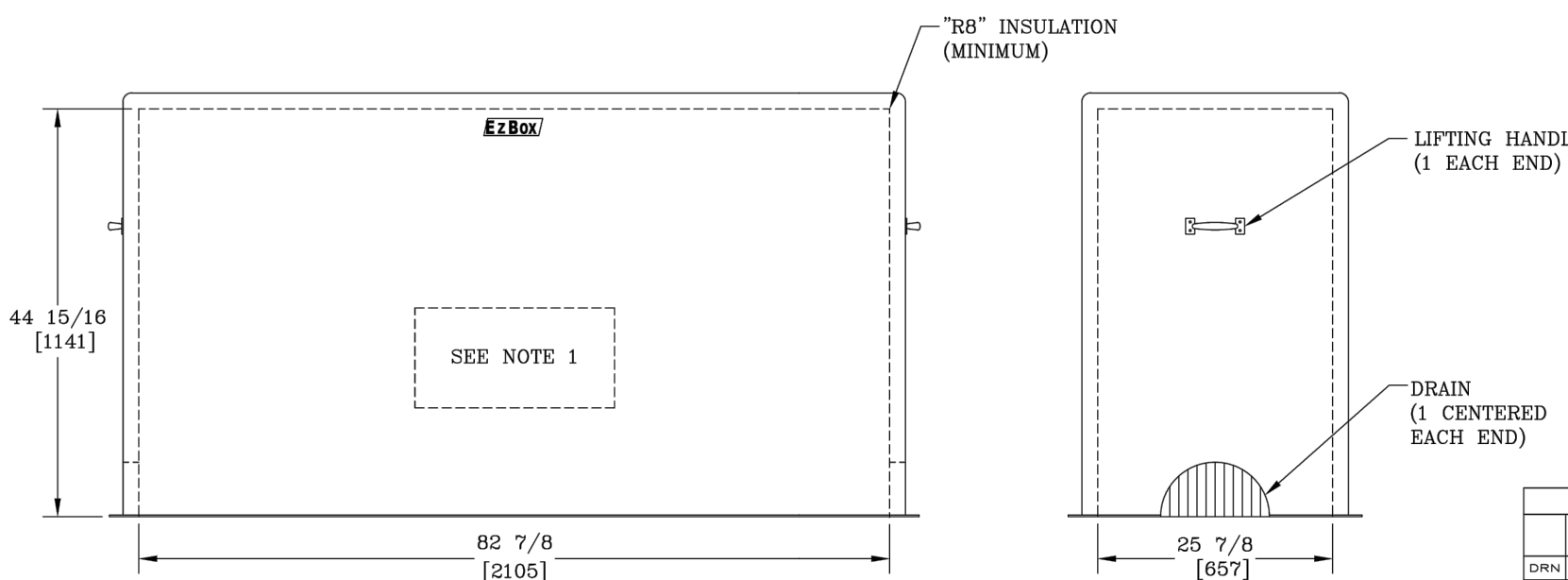
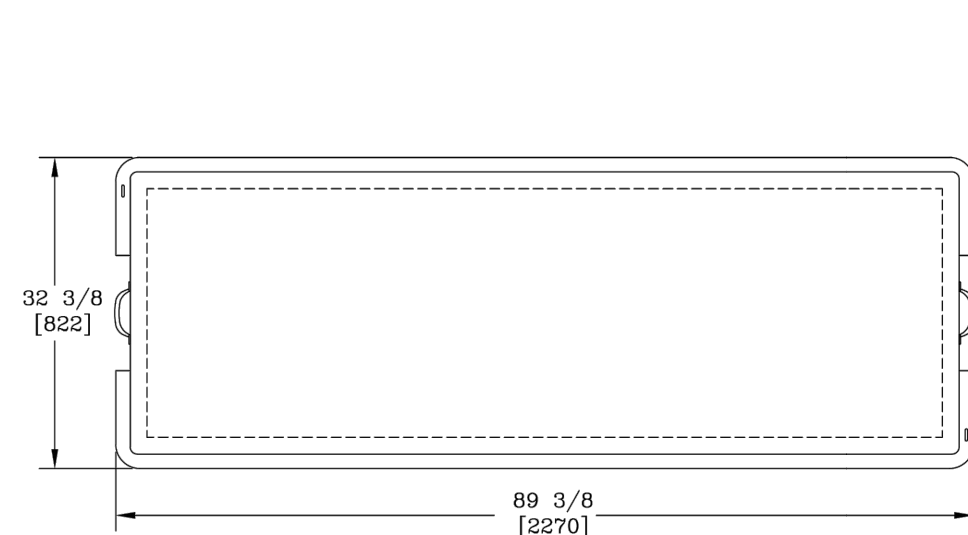
- AUTO-LOCK T-316 STAINLESS STEEL HOLD OPEN ARM WITH RELEASE HANDLE
- T-316 STAINLESS STEEL HINGES AND ATTACHING HARDWARE
- NON-CORROSIVE LOCKING BAR
- SINGLE LEAF CONSTRUCTION
- 300 LBS. PER SQ. FT. LOAD RATING (1464 KG. PER SQ. METER LOAD RATING)
- EXTRUDED ALUMINUM CHANNEL FRAME
- RECESSED LIFTING HANDLE
- LIFETIME GUARANTEE



QTY.	MODEL NO.	A DIM. INCHES (MM)	C DIM. INCHES (MM)	UNIT WT. LBS. (KG.)
	WR2424	24 (610)	24 (610)	46 (20)
	WR2430	24 (610)	30 (762)	51 (23)
	WR2436	24 (610)	36 (914)	61 (28)
	WR2442	24 (610)	42 (1067)	77 (35)
	WR2448	24 (610)	48 (1219)	85 (39)
	WR3030	30 (762)	30 (762)	62 (28)
	WR3036	30 (762)	36 (914)	69 (31)
	WR3042	30 (762)	42 (1067)	77 (35)
	WR3048	30 (762)	48 (1219)	85 (39)
	WR3054	30 (762)	54 (1372)	99 (45)
	WR3060	30 (762)	60 (1524)	102 (46)
	WR3636	36 (914)	36 (914)	78 (35)
	WR3642	36 (914)	42 (1067)	89 (40)
	WR3648	36 (914)	48 (1219)	97 (44)
	WR3654	36 (914)	54 (1372)	107 (49)
	WR3660	36 (914)	60 (1524)	116 (53)
	WR3666	36 (914)	66 (1676)	126 (57)
	WR3672	36 (914)	72 (1828)	135 (61)
	WR4242	42 (1067)	42 (1067)	108 (49)



- HATCH DOOR NOTES:
- HATCH SHALL BE SINGLE LEAF, PEDESTRIAN RATED, CHANNEL FRAME, ALUMINUM DIAMOND PATTERN PLATE DOOR.
 - HATCH DOORS SHALL BE WATERTIGHT, EQUIPPED WITH NEOPRENE GASKET, HINGED WITH LOCKING MECHANISM (HASP), AND AUTOMATIC HOLD OPEN ARM.
 - ENSURE HATCH DOOR RESTS EVENLY ON FRAME ALL AROUND.
 - ALL HARDWARE SHALL BE ZINC PLATED STEEL-CHROMATE SEALED OR STAINLESS STEEL.



- NOTES:
- HEAT IS PROVIDED BY A 1500WATT, 120V SINGLE PHASE HEATER. FOR UNHEATED VERSION REPLACE THE PREFIX "H" WITH AN "L".
 - STANDARD COLOR IS BEIGE. (OPTIONS AVAILABLE)
 - FOR RECOMMENDED SLAB SIZE ADD 9" [229] TO THE ENCLOSURE EXTERIOR.

DESIGNED BY	DATE	SCALE	DRAWING DESCRIPTION	REV.
CHKD	8/21/09	1/4"=1'	HOT BOX [®] FIBERGLASS DROP OVER ENCLOSURE (HEATED)	
APPD	1/27/11			
PROJECT NUMBER	09915	SHEET	1 OF 1	DRAWING NUMBER
				HE026083045

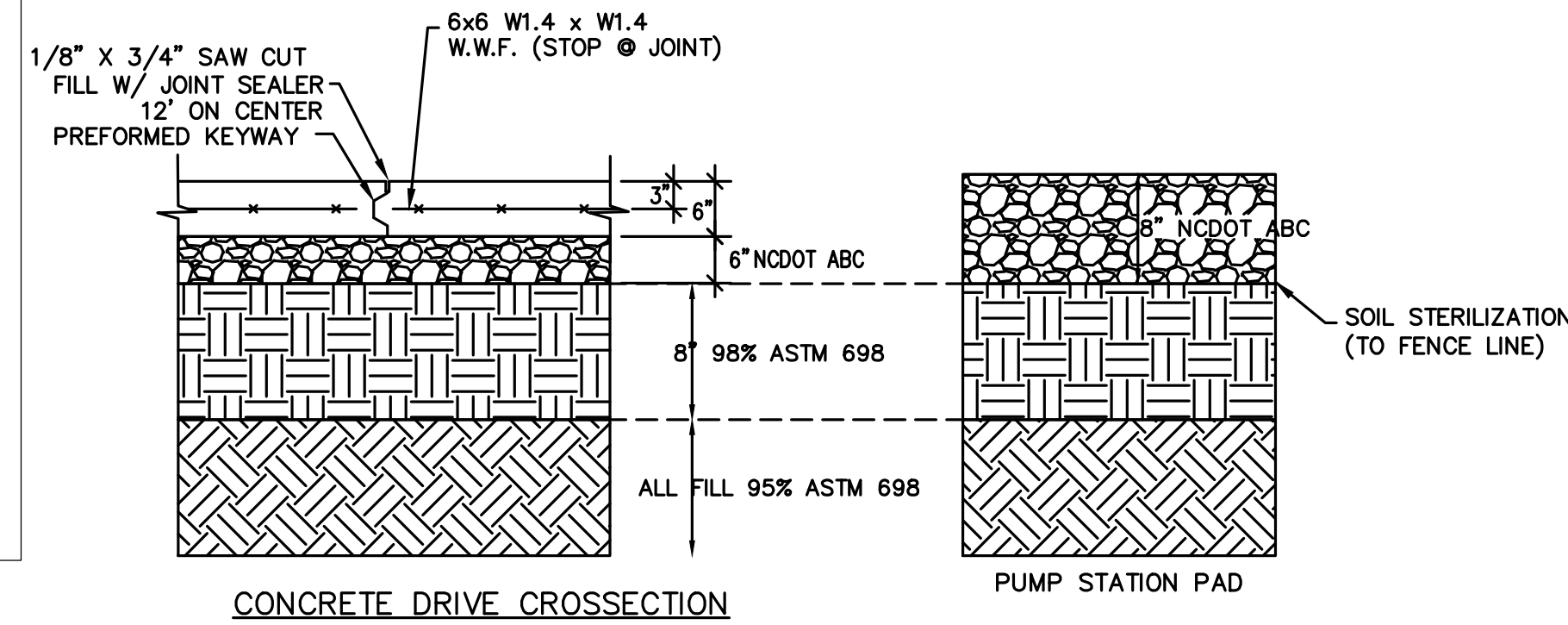
SITE PERMITTING APPROVAL
CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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Raleigh Water Review Officer

REV	DESCRIPTION	DATE
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02	CONSTRUCTION DOCUMENTS 2ND SUBMITTAL	08/14/2020
01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020
REV	REVISIONS	

CONCRETE 4000PSI 28DAYS PER ASTM C-31



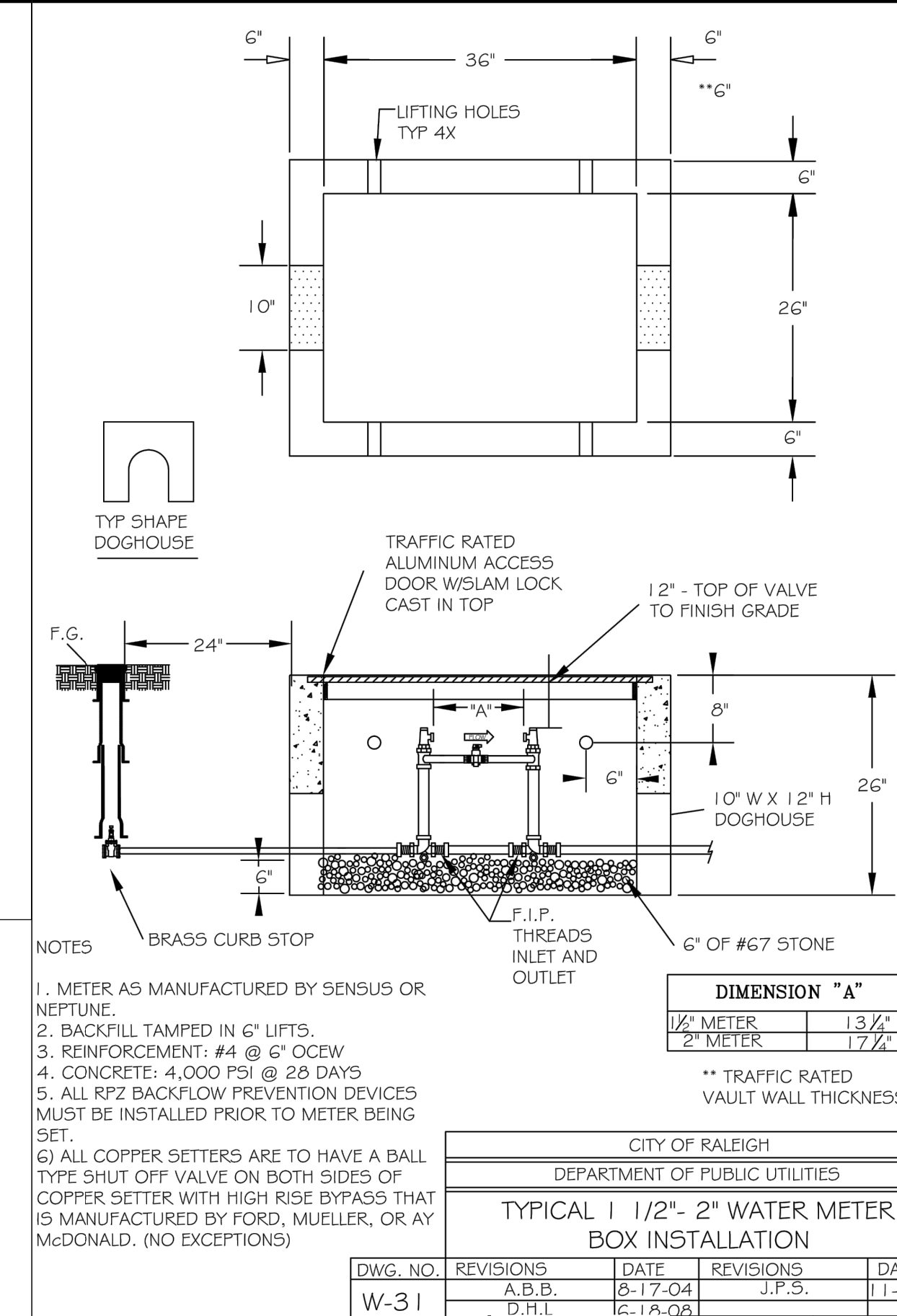
CONCRETE DRIVE CROSSSECTION

PUMP STATION PAD

- ALL ABOVE GROUND ENCLOSURES MUST HAVE ADEQUATE DRAINAGE (TWICE THE DIAMETER OF THE SUPPLY PIPE) TO DAYLIGHT ABOVE GRADE.
- REDUCED PRESSURE BACKFLOW PREVENTERS MAY BE LOCATED IN A BUILDING PROVIDED THERE ARE NO OTHER UNPROTECTED TAPS BETWEEN THE MAIN AND THE BUILDING. DRAINAGE IN A BUILDING MUST BE TWICE THE DIAMETER OF THE SUPPLY PIPE.
- ABOVE GROUND INSULATED VAULTS MUST BE ASSE 10G0 APPROVED ABOVE GROUND ENCLOSURES. SEE CROSS CONNECTION MANUAL FOR ENCLOSURE FREEZE PROTECTION AND CERTIFICATION REQUIREMENTS.
- RESIDENTIAL LAWN IRRIGATION R.P. ASSEMBLIES THAT ARE REMOVED TO PREVENT FREEZING IN THE WATER MONTHS MUST BE CAPPED OFF. ALL ABOVE GROUND ASSEMBLIES, EXCEPT RESIDENTIAL LAWN IRRIGATION ASSEMBLIES, MUST BE PROTECTED FROM FROST.
- FOR ENCLOSURE DIMENSIONS SEE DETAIL W-34.
- STEEL RODS AND BOLTS SHALL BE 3/4" HOT DIPPED GALVANIZED.
- ALL ASSEMBLIES MUST BE ON THE CURRENT APPROVAL LIST.

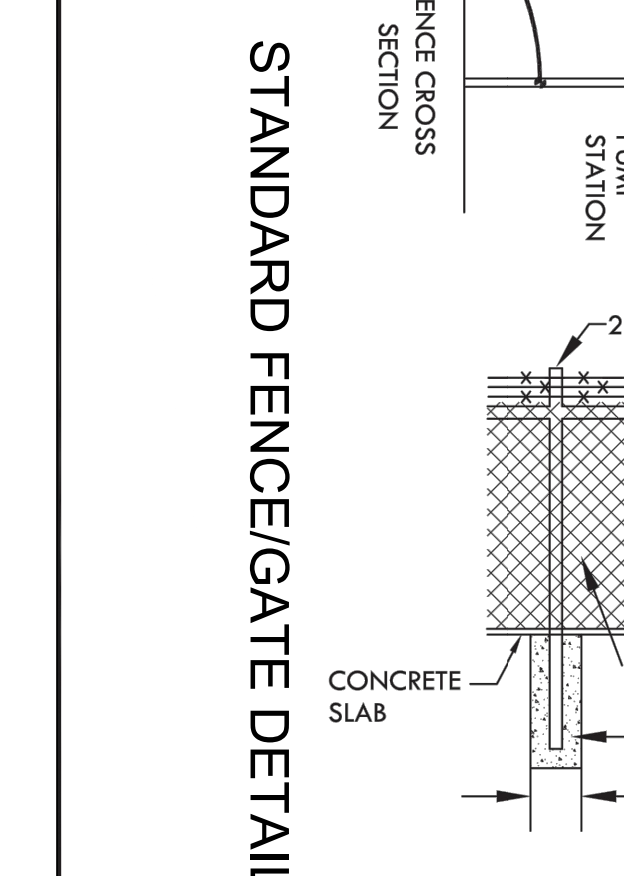
DWG. NO.	W-36
REVISIONS	
DATE	
BY	
DATE	
BY	
DATE	
BY	
DATE	
BY	
DATE	

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES



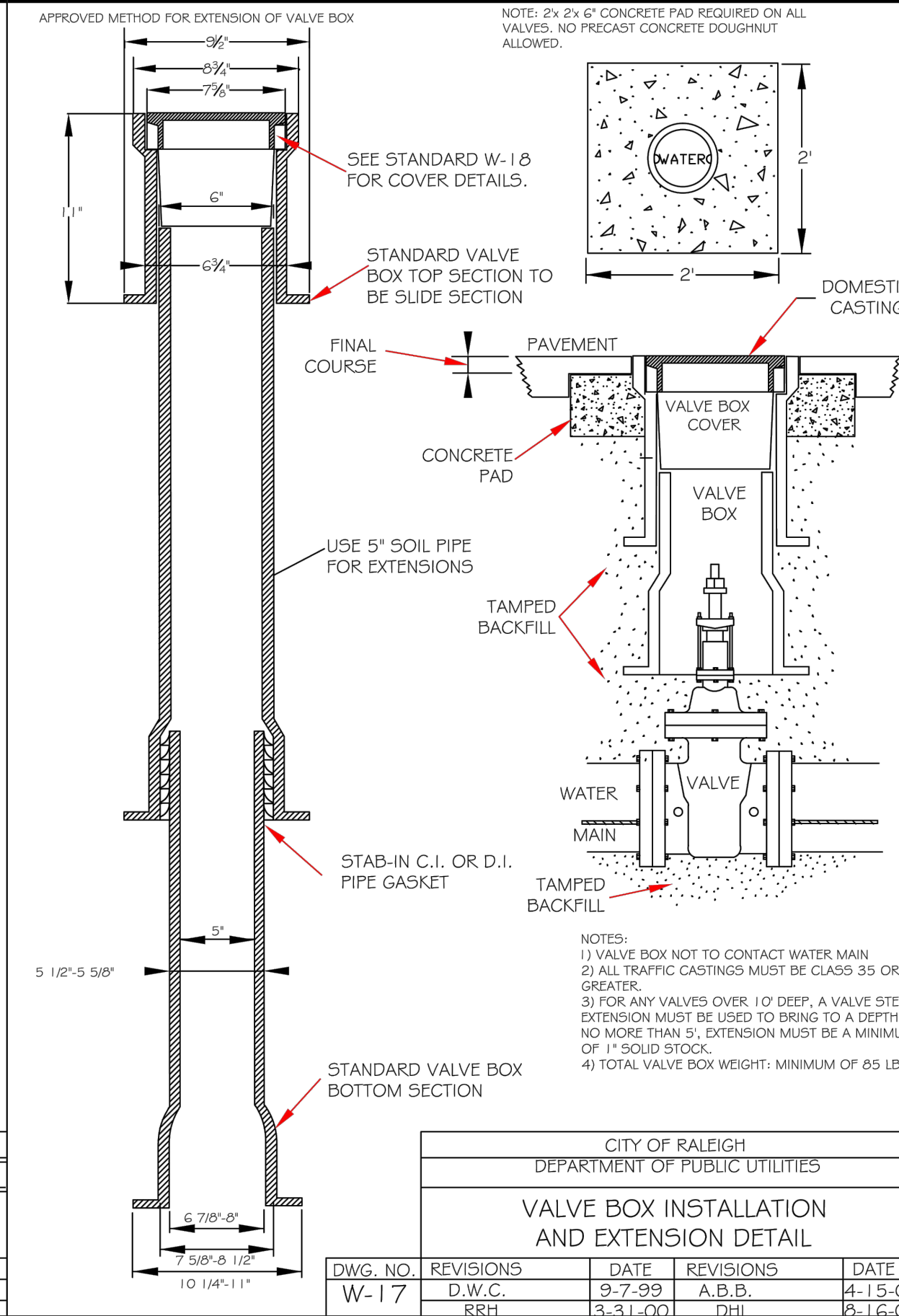
DIMENSION "A"	
1/2" METER	13 1/4"
2" METER	17 1/4"

DWG. NO.	W-31
REVISIONS	
DATE	
BY	
DATE	
BY	
DATE	
BY	
DATE	



STANDARD FENCE/GATE DETAIL

- NOTES:
- PVC FENCE SLATS REQUIRED. SLATS SHALL BE ARCHITECTURAL GREEN
 - FENCE SHALL BE COMPATIBLE WITH SURROUNDING NEIGHBORHOOD IN ACCORDANCE WITH THE UDO.

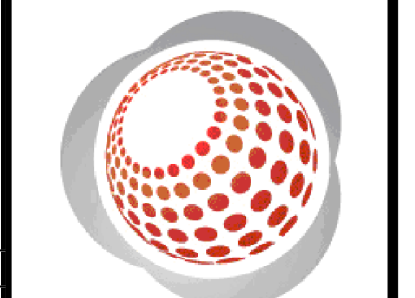


VALVE BOX INSTALLATION AND EXTENSION DETAIL

DWG. NO.	W-17
REVISIONS	
DATE	
BY	
DATE	
BY	
DATE	
BY	
DATE	



Bateman Civil Survey Company
Engineers • Surveyors • Planners
2824 Reliance Avenue, Apex, North Carolina 27539
Phone: 919.577.1080 Fax: 919.577.1081
NCBELS FIRM No. C-2378

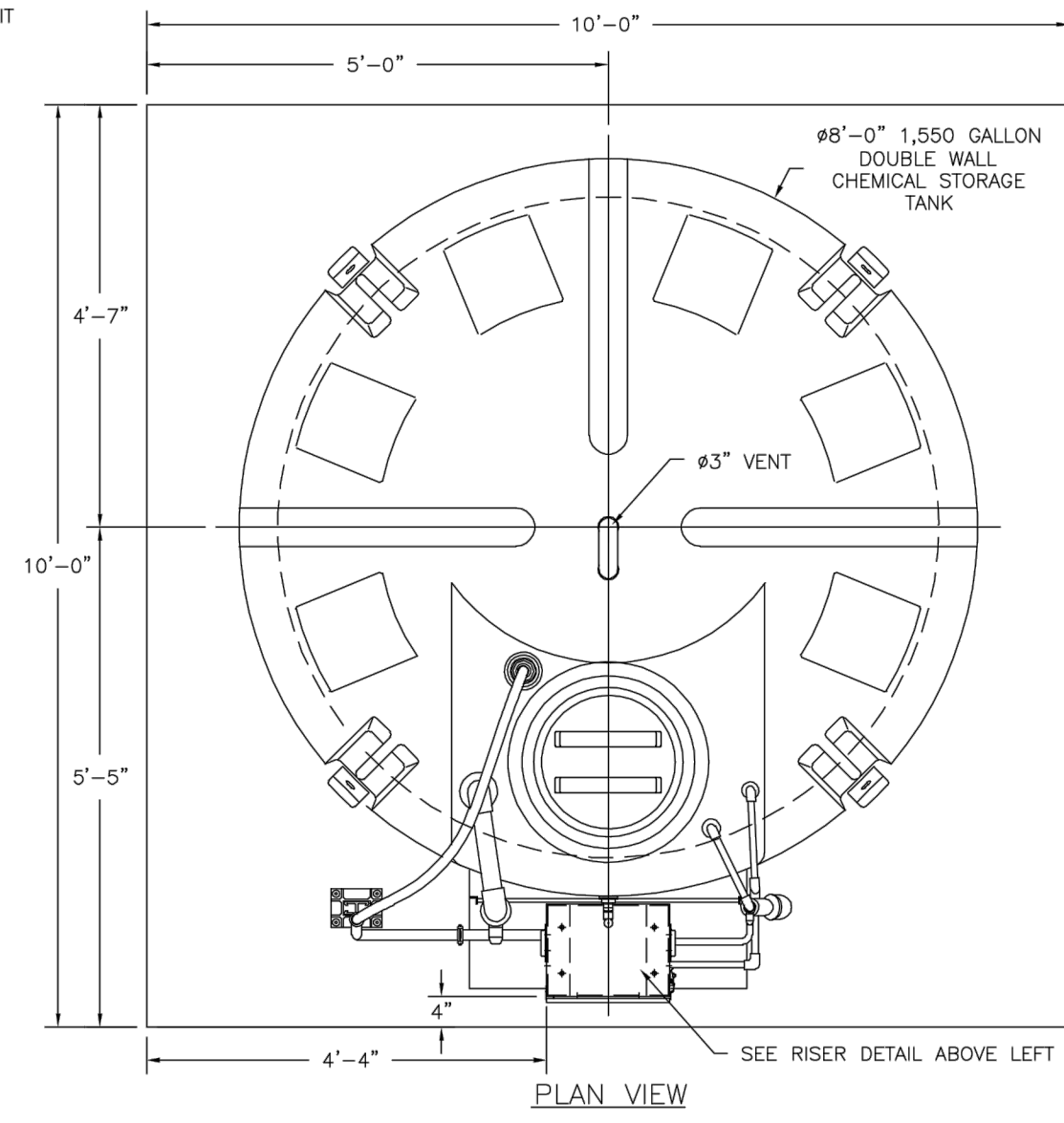
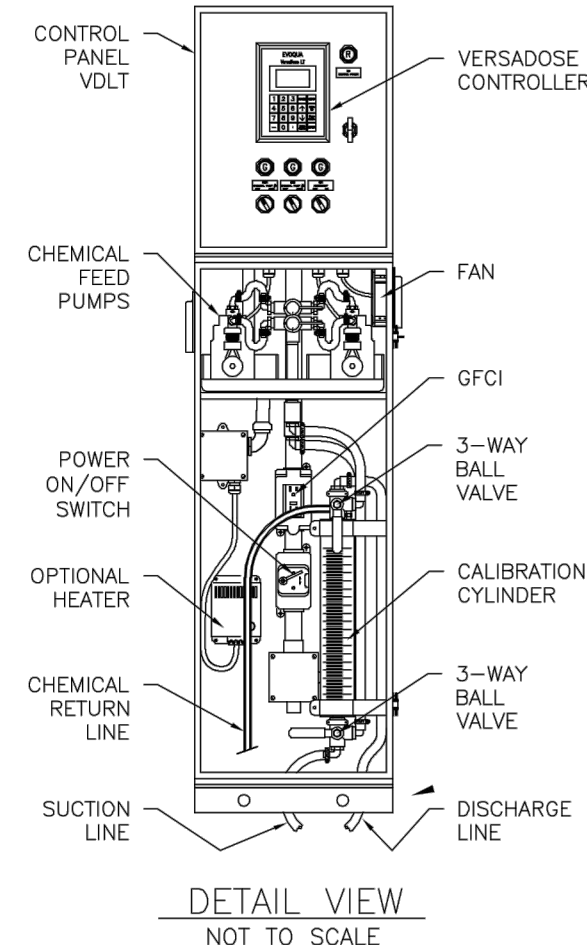
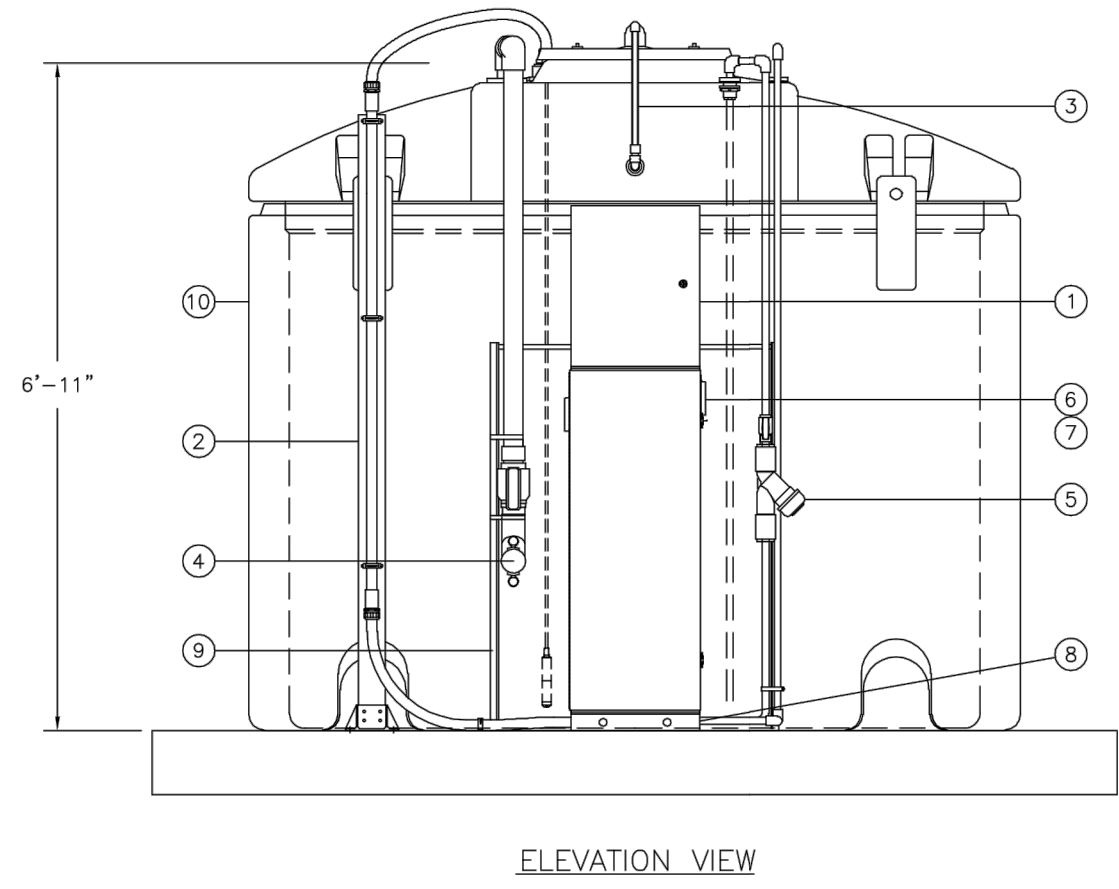
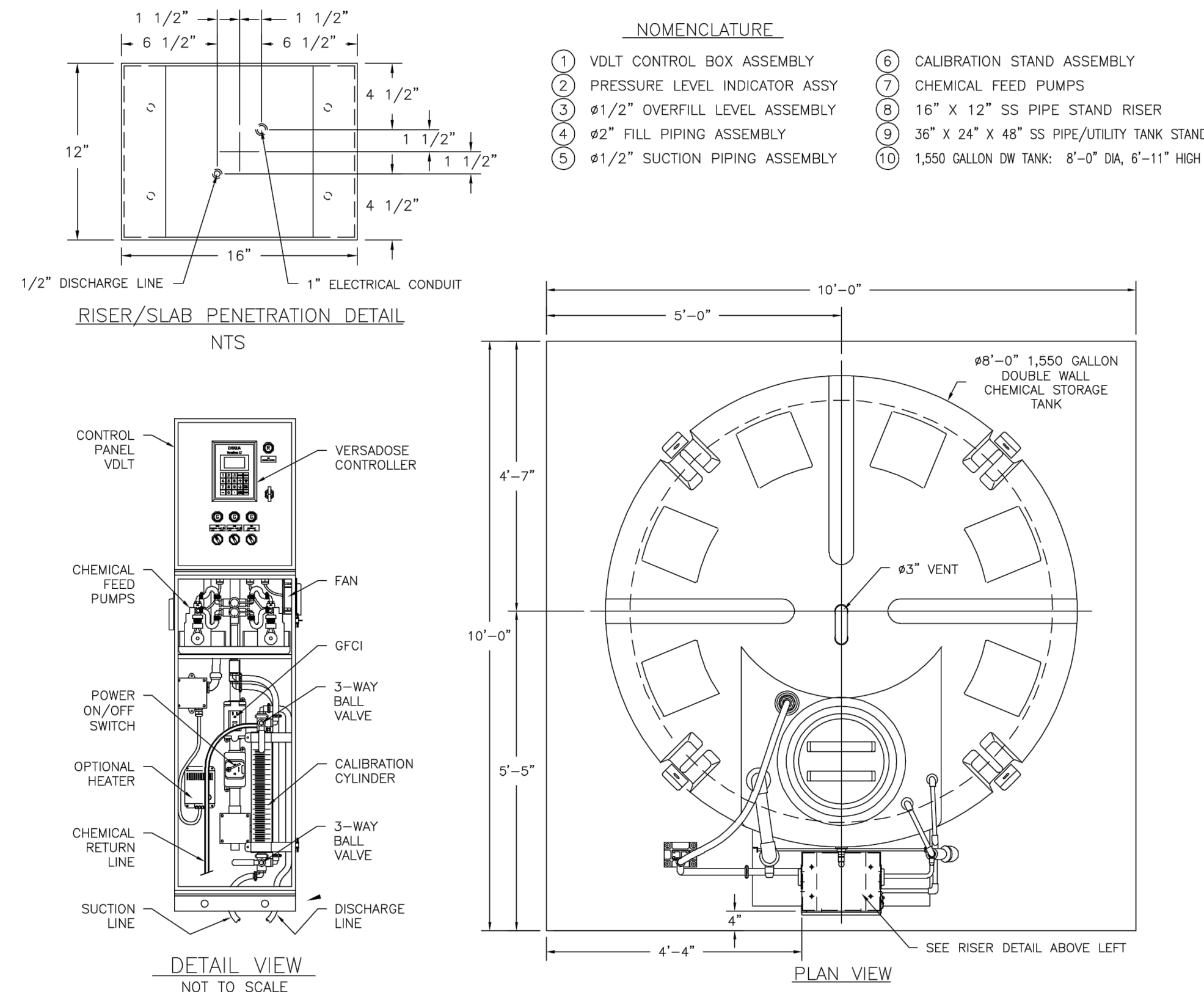


CHANDLER'S RIDGE
CONSTRUCTION DOCUMENTS
CONSERVATION SUBDIVISION

PUMP STATION
DETAILS

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	
Date:	09/08/2020
Project Number:	P170347
SHEET	
C609	

- NOTES:
- THIS IS A CONCEPTUAL GENERAL ARRANGEMENT DRAWING ONLY.
 - ACTUAL EQUIPMENT AND PIPING LOCATIONS MAY VARY. PAD & EQUIPMENT LAYOUT SHOWN ARE ONLY SUGGESTED.
 - CONTAINMENT CURBING IS NOT SHOWN OR INCLUDED.
 - CAUTION: DOOR ON CHEMFEED SYSTEM EXTENDS PAST PAD DIMENSIONS.
 - STUB-UP FOR ELECTRICAL CONDUIT AND DISCHARGE PIPING TO BE DETERMINED PER SITE PLACEMENT.
 - REFERENCE PROJECT SUBMITTALS FOR FURTHER SYSTEM INFORMATION.



CONTRACTOR SUPPLIER CONTACT:

RICHARD SANCHEZ
TECHNICAL SALES REPRESENTATIVE-
NORTH CAROLINA

EVOQUA WATER TECHNOLOGIES LLC
2650 TALLEVAST RD.
SARASOTA, FLORIDA, 34243, USA

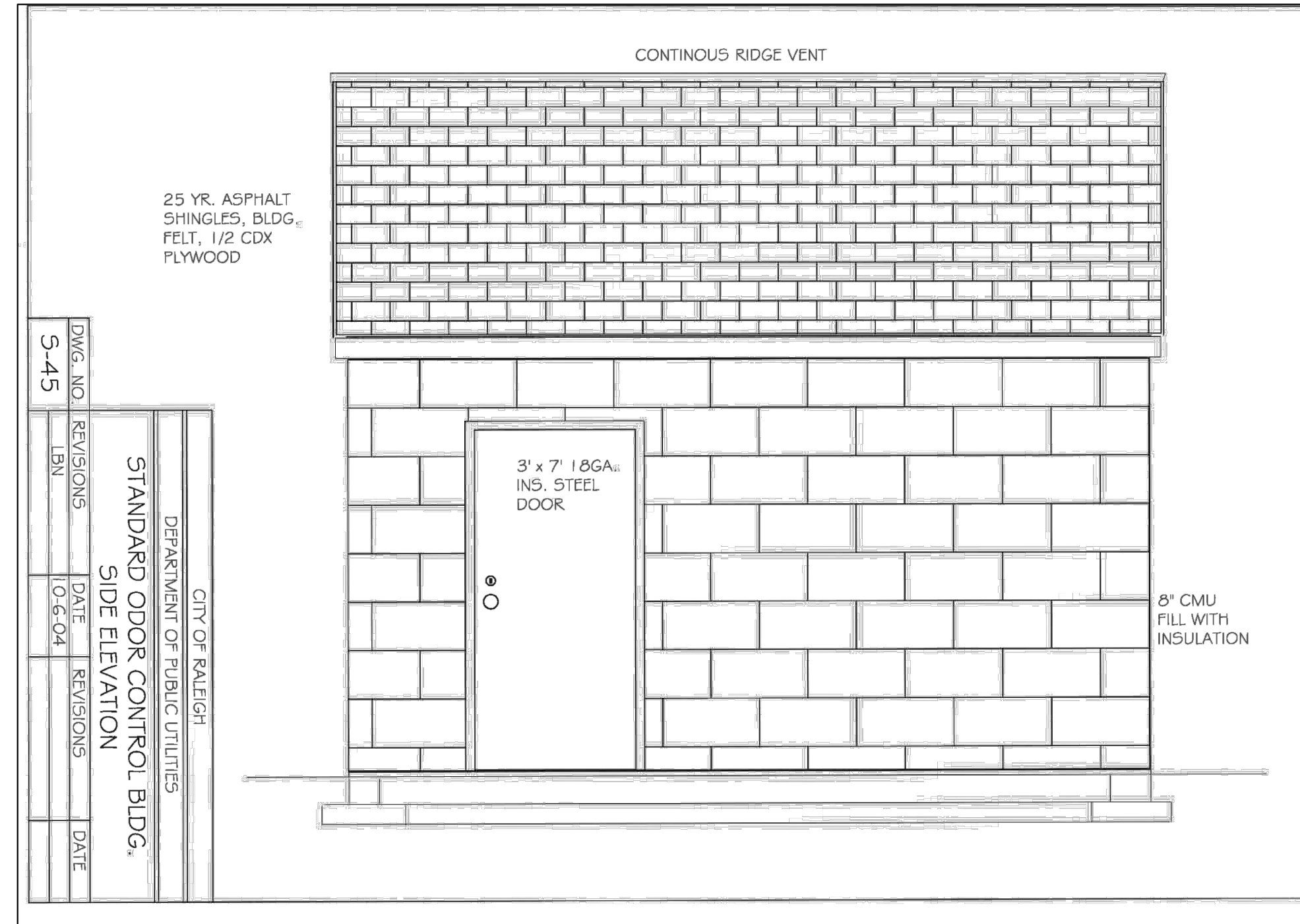
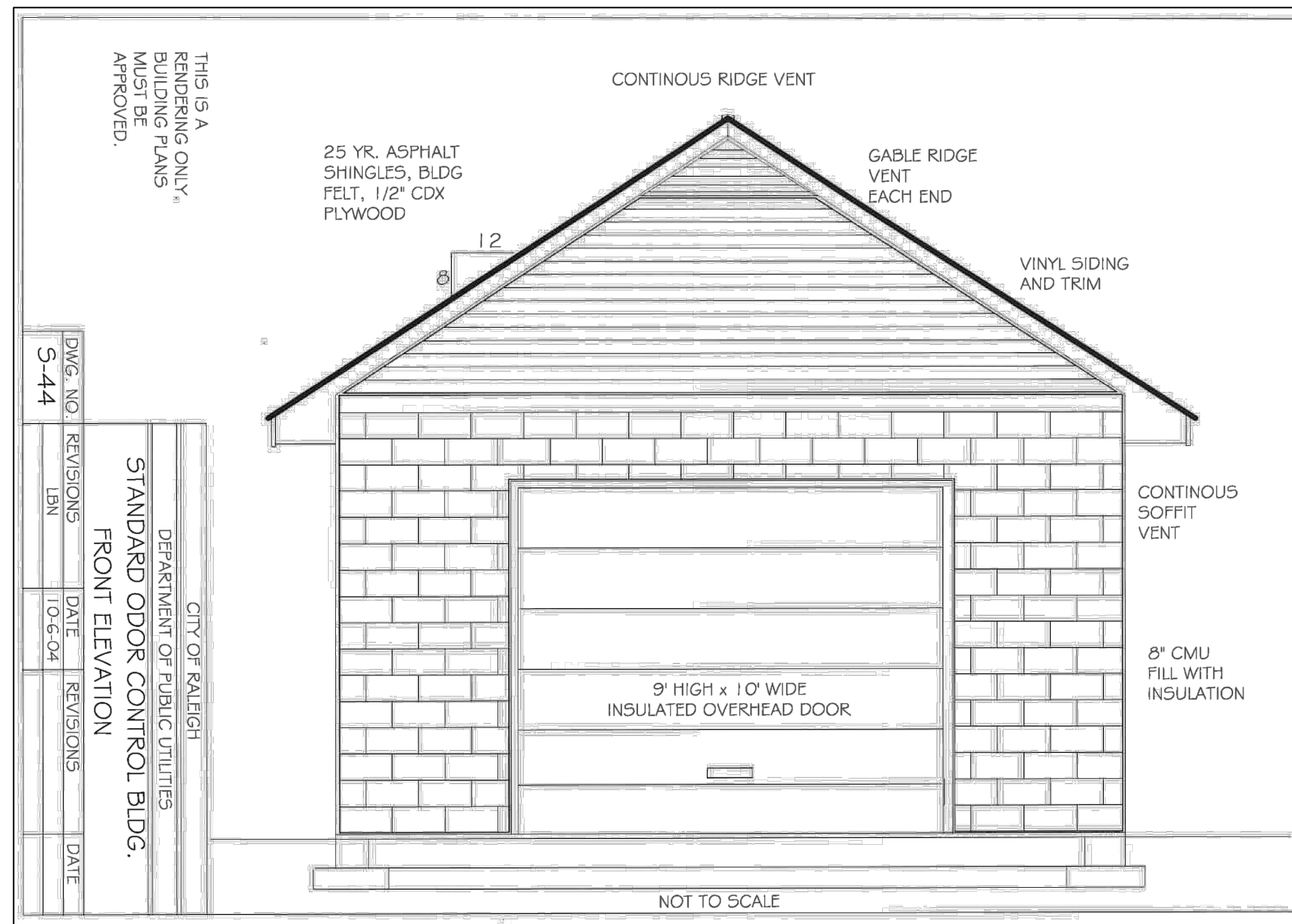
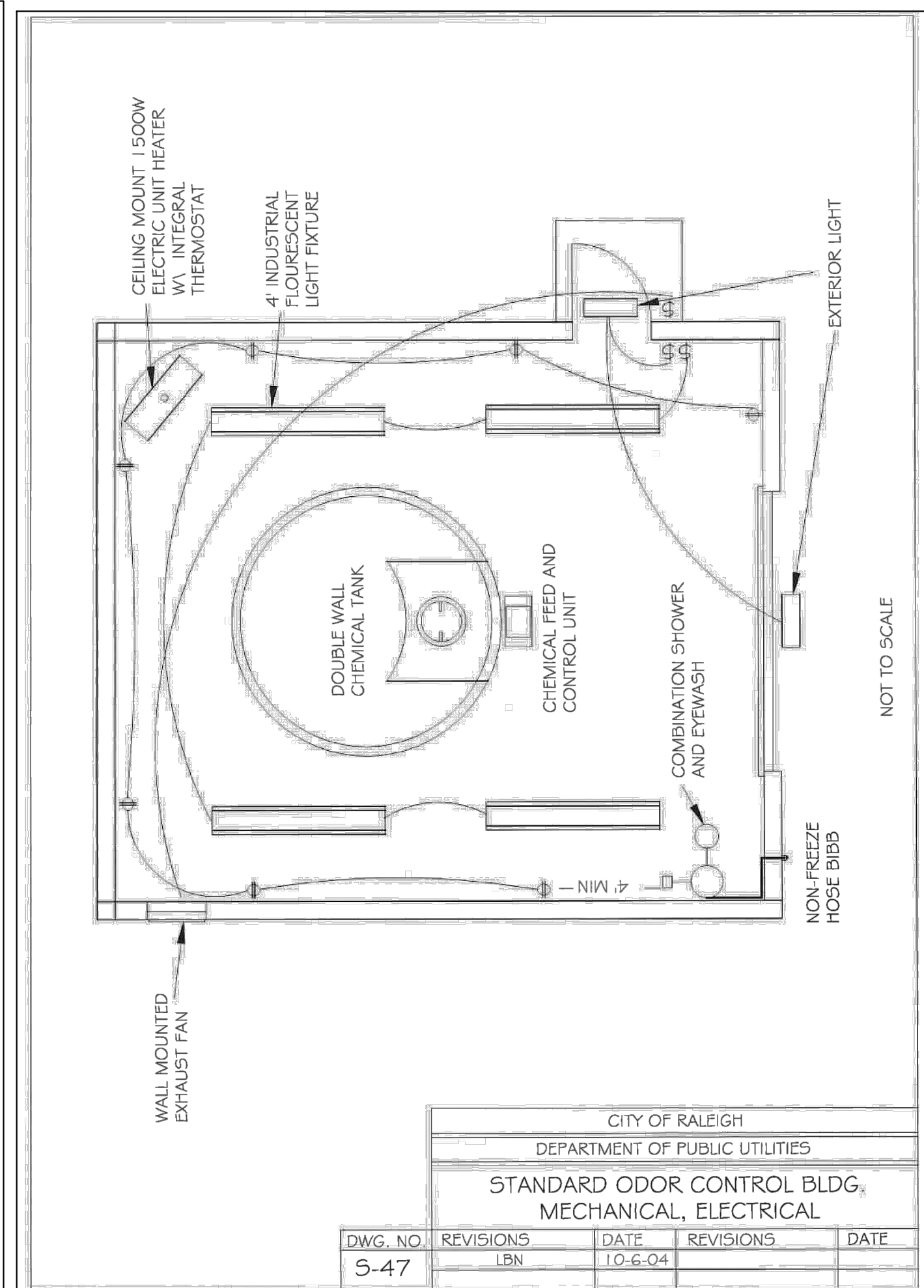
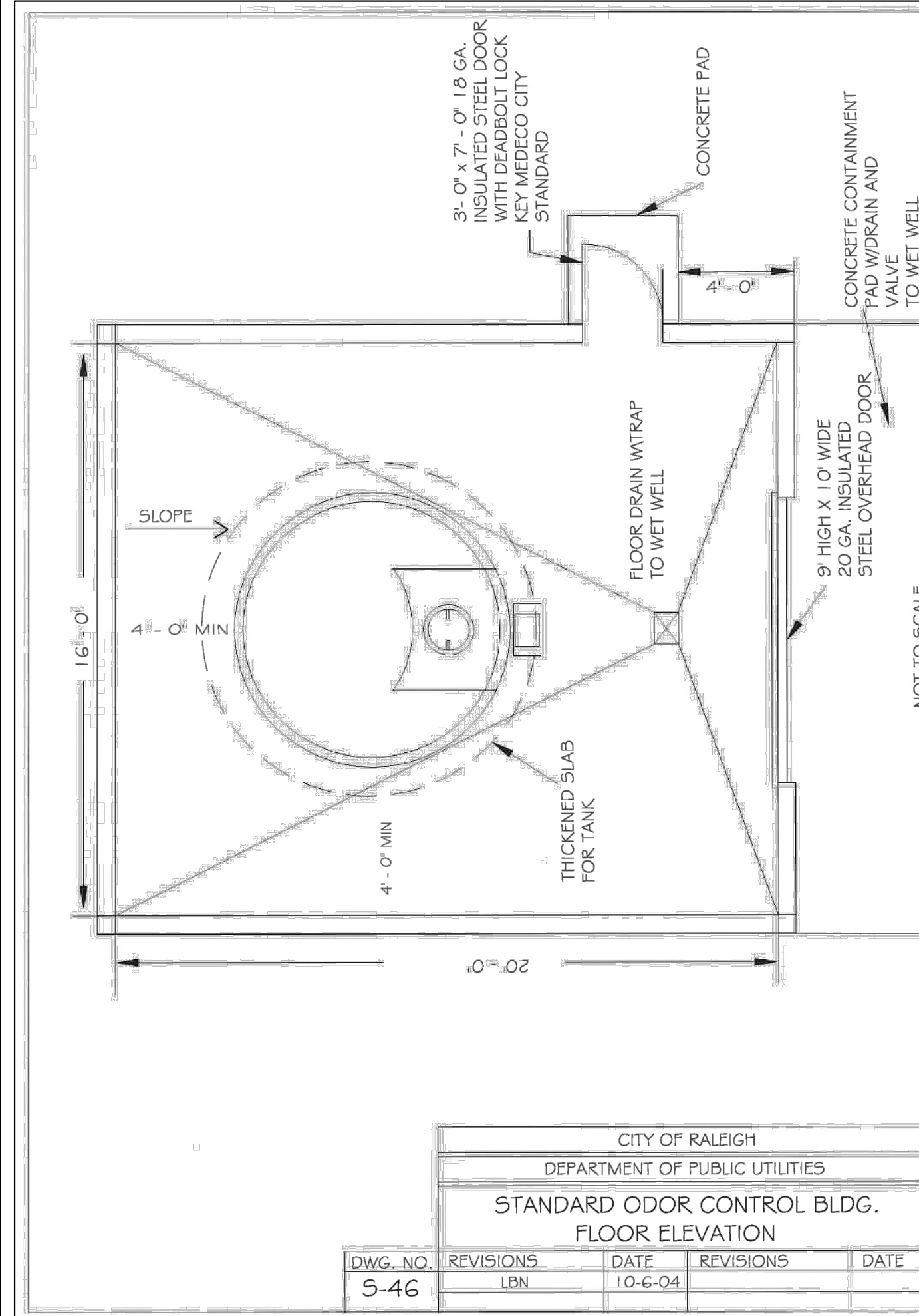
ASSY CHEM-FEED 1550-DW 8'-0"D X 6'-11"H
PRESSURE LEVEL INDICATOR

REV	DESCRIPTION	DATE	DRN	CHKD	APPD	EDN

COMPANY CONFIDENTIAL	DESIGNER DATE	TITLE
REINBOLT 03/09/18	REINBOLT 03/09/18	ASSY CHEM-FEED 1550-DW 8'-0"D X 6'-11"H
REINBOLT 03/09/18	CHECKER DATE	PRESSURE LEVEL INDICATOR
REINBOLT 03/09/18	ENGINEER DATE	
REINBOLT 03/09/18	MANAGER DATE	
REINBOLT 03/09/18	FILE	
REINBOLT 03/09/18	SCALE: 25	

PROJECT	DATE	SHEET	NO.
SALES	10-6-04	1	000

TANK SUPPLIER
SEE SUPPLIER FOR INSTALL AND ORDER:
RICHARD SANCHEZ
EVOQUA WATER TECHNOLOGIES
919-455-6368
RICHARD.SANCHEZ@EVOQUA.COM



SITE PERMITTING APPROVAL
CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval
Raleigh Water Review Officer

REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
02	CONSTRUCTION DOCUMENTS 2ND SUBMITTAL	08/14/2020
01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020



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Phone: 919.577.1080 Fax: 919.577.1081
NCBELS FIRM No. C-2378



CHANDLER'S RIDGE
CONSTRUCTION DOCUMENTS
CONSERVATION SUBDIVISION
410 W. YOUNG ST.
ROLESVILLE, NC
WAKE COUNTY

ODOR CONTROL
DETAILS

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	

Date: 09/08/2020

Project Number: P170347

SHEET
C610



Bateman Civil Survey Company
 Engineers • Surveyors • Planners
 2524 Reliance Avenue, Apex, North Carolina 27539
 Phone: 919.577.1080 Fax: 919.577.1081
 NCBSLS FRM No. C-2378

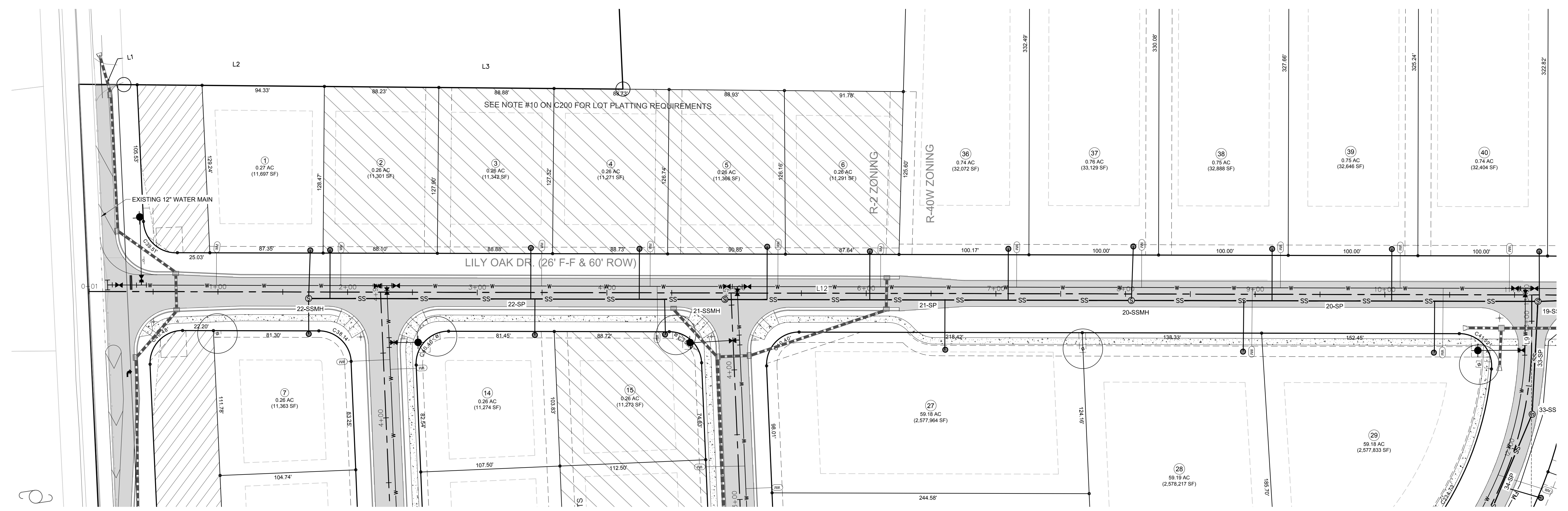


CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION

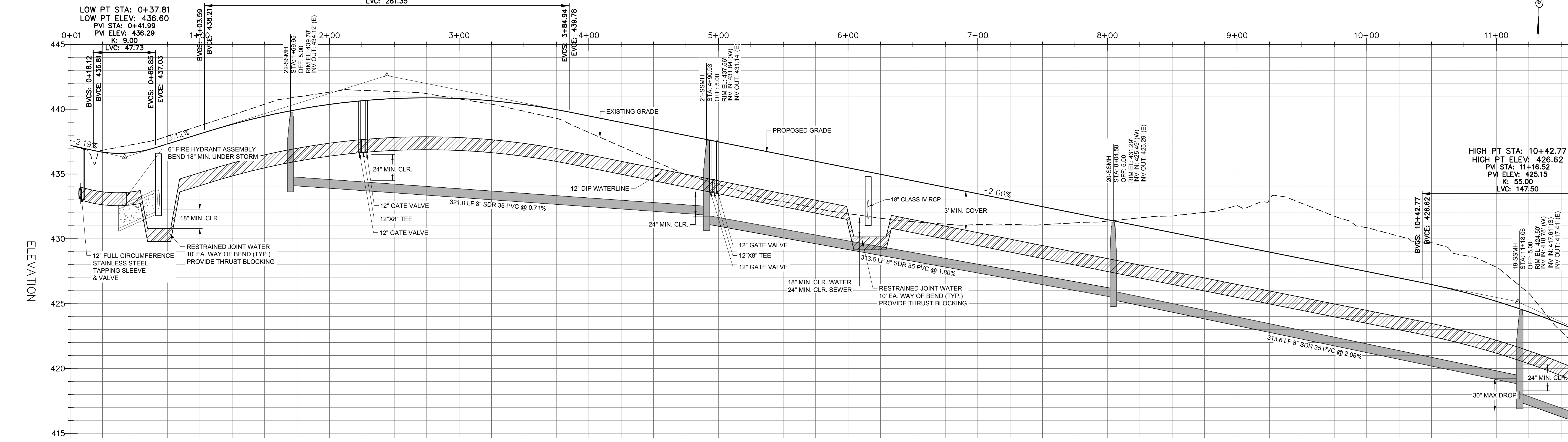
LILY OAK DR.
 PLAN & PROFILE

Project Engineer: TSS
 Designed By: TEP
 Drawn By: TEP
 Checked By: TSS
 Scale: 1" = 40'
 Date: 09/08/2020
 Project Number: P170347

SHEET
C700



LILY OAK DR. - PLAN
 SCALE: 1"=40'
 STA: 0+00 - 10+50



Line Table: Alignments

Line #	Length	Direction	Start Point	End Point
L12	1204.03	S81° 35' 14.57"E	0+00.66	12+04.70
L13	406.20	N89° 16' 35.52"E	13+96.84	18+03.04
L14	469.73	N0° 43' 24.48"W	21+64.33	26+34.06
L15	120.79	N38° 45' 44.62"W	27+86.76	29+07.55

Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C7	1205.00	192.14	S86° 09' 19.52"E	12+04.70	13+96.84
C8	230.00	361.28	N44° 16' 35.52"E	18+03.04	21+64.33
C9	230.00	152.70	N19° 44' 34.55"W	26+34.06	27+86.76

LILY OAK DR. - PROFILE
 HOR. SCALE: 1"=40' VER. SCALE: 1"=4'
 STA: 0+00 - 10+50

SITE PERMITTING APPROVAL
 CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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City of Raleigh Development Approval
 Raleigh Water Review Officer

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REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
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REV	DESCRIPTION	DATE
	REVISIONS	



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 Phone: 919.577.1080 Fax: 919.577.1081
 NCBELS FIRN No. C-2378

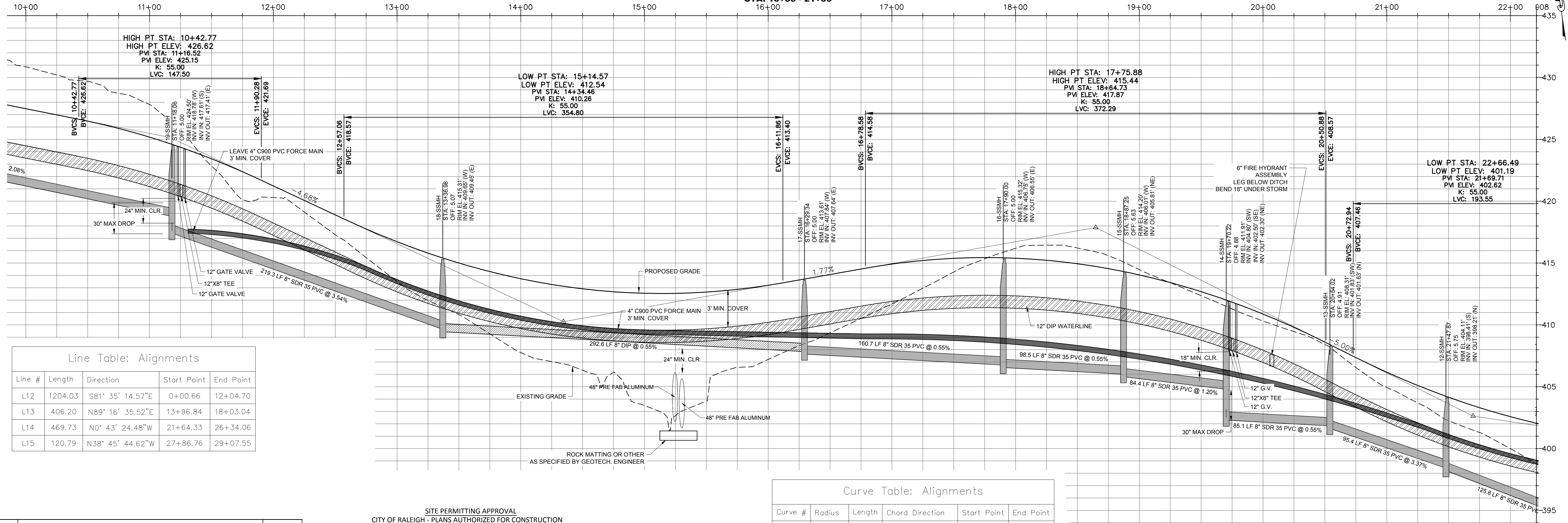
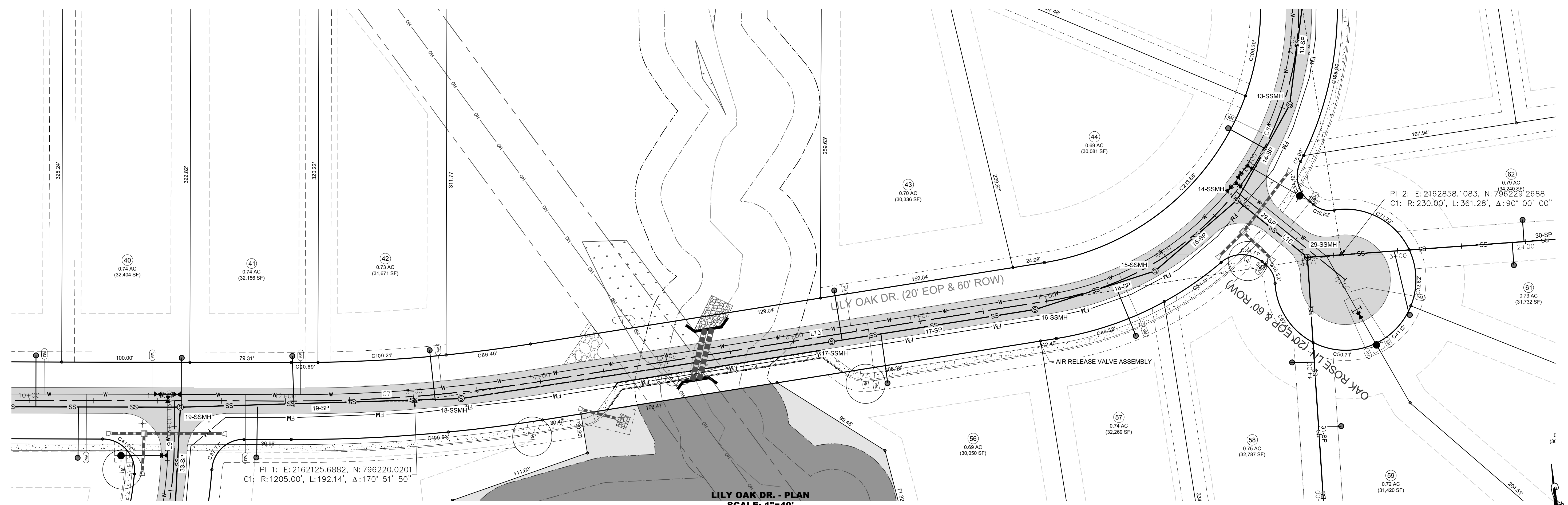


CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION

LILY OAK DR.
 PLAN & PROFILE

Project Engineer: TSS
 Designed By: TEP
 Drawn By: TEP
 Checked By: TSS
 Scale: 1" = 40'
 Date: 09/08/2020
 Project Number: P170347

SHEET
C701



Line Table: Alignments

Line #	Length	Direction	Start Point	End Point
L12	1204.03	S81° 35' 14.57"E	0+00.66	12+04.70
L13	406.20	N89° 16' 35.52"E	13+96.84	18+03.04
L14	469.73	N0° 43' 24.48"W	21+64.33	26+34.06
L15	120.79	N38° 45' 44.62"W	27+86.76	29+07.55

Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C7	1205.00	192.14	S86° 09' 19.52"E	12+04.70	13+96.84
C8	230.00	361.28	N44° 16' 35.52"E	18+03.04	21+64.33
C9	230.00	152.70	N19° 44' 34.55"W	26+34.06	27+86.76

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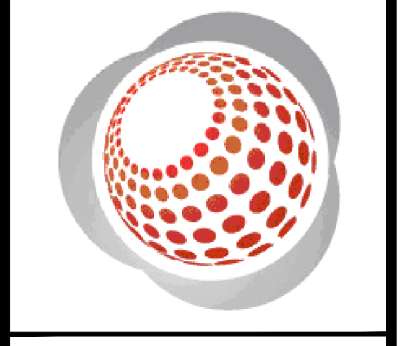
City of Raleigh Development Approval
 Raleigh Water Review Officer

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REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
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 2524 Reliance Avenue, Apex, North Carolina 27539
 Phone: 919.577.1080 Fax: 919.577.1081
 NCBSLS FIRN No. C-2378

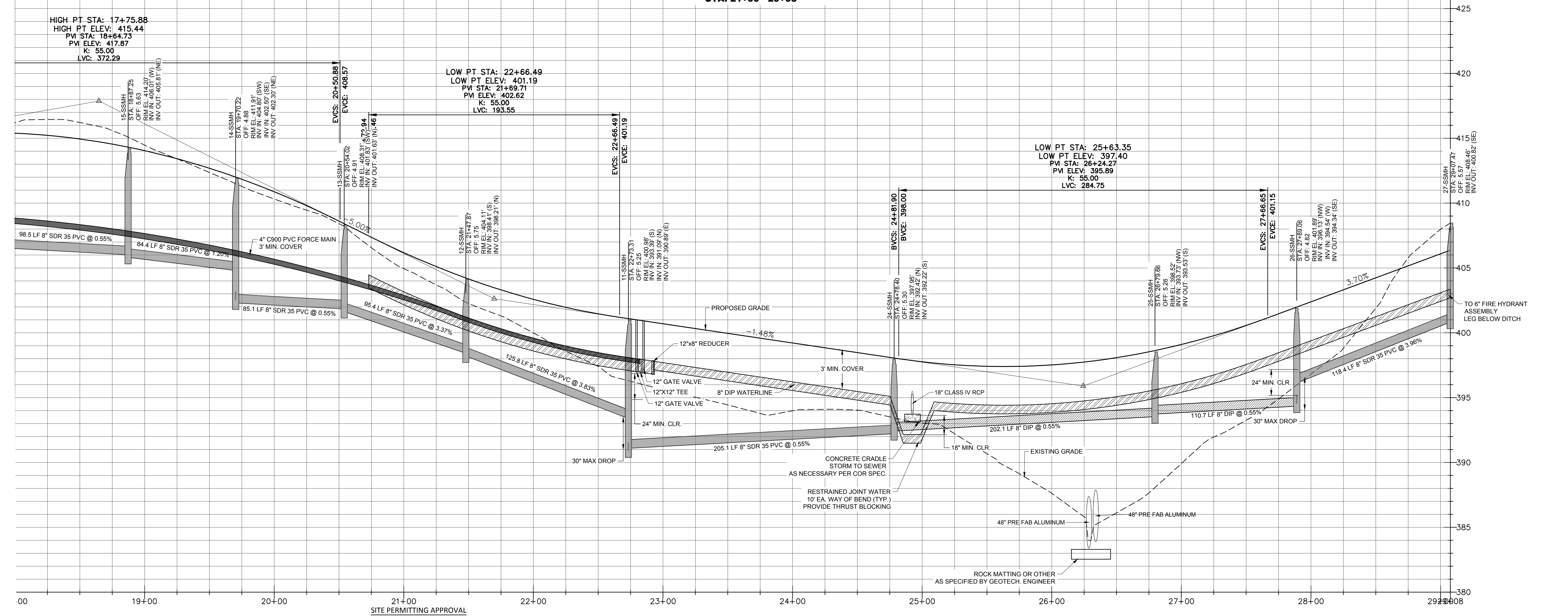
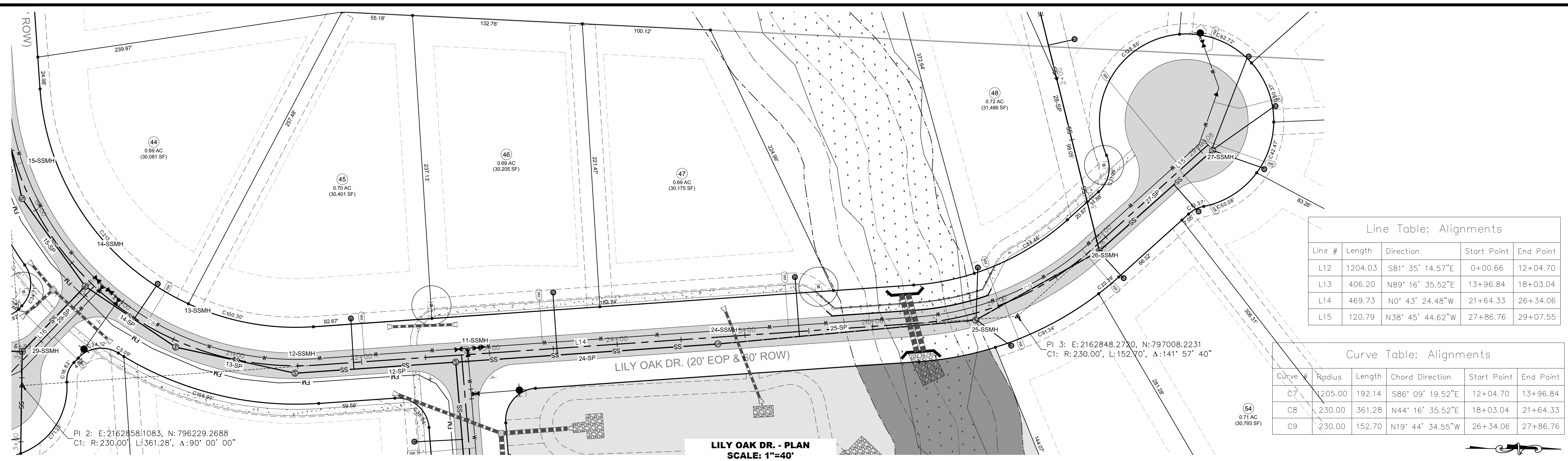


CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION
 410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY

LILY OAK DR.
 PLAN & PROFILE

Project Engineer: TSS
 Designed By: TEP
 Drawn By: TEP
 Checked By: TSS
 Scale: 1" = 40'
 Date: 09/08/2020

Project Number: P170347
 SHEET
C702



P:\2017\Projects\170347\Chandler's Ridge\CADD\DWG\TP SHEETS\170347_C702_ROW.DWG

REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
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CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION
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 City of Raleigh Development Approval
 Raleigh Water Review Officer

LILY OAK DR. - PROFILE
HOR. SCALE: 1"=40' VER. SCALE: 1"=4'
STA: 21+00 - 29+08



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 Engineers • Surveyors • Planners
 2524 Reliance Avenue, Apex, North Carolina 27539
 Phone: 919.577.1080 Fax: 919.577.1081
 NCBELS FIRW No. C-2378

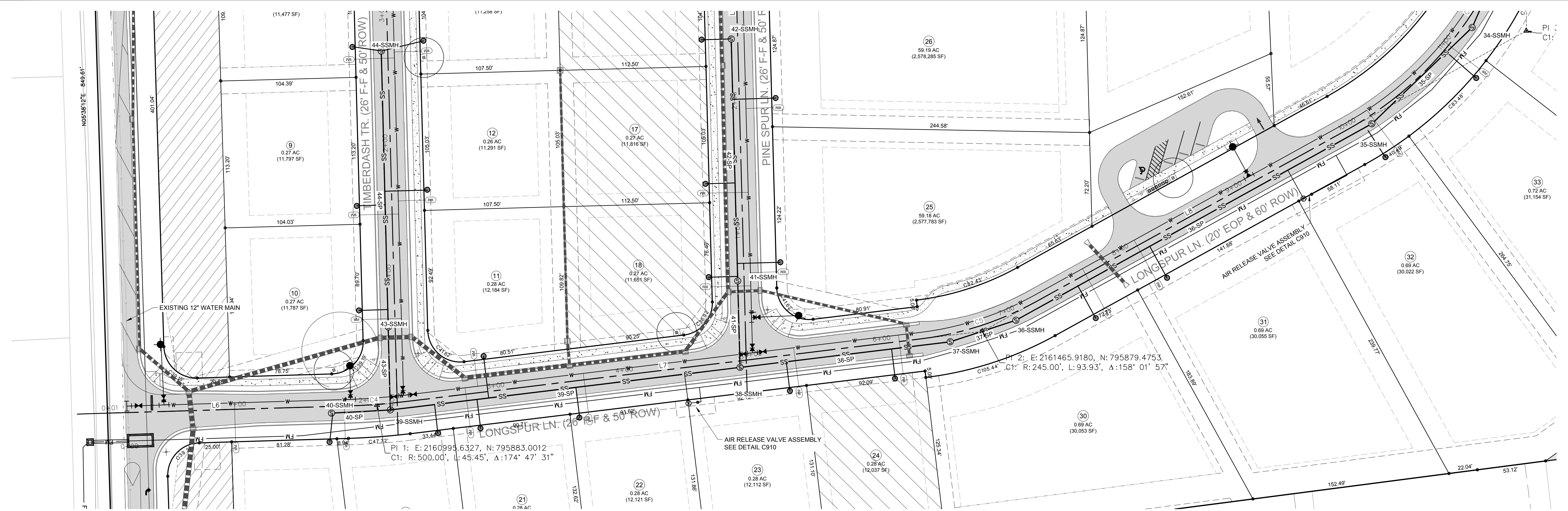


CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION

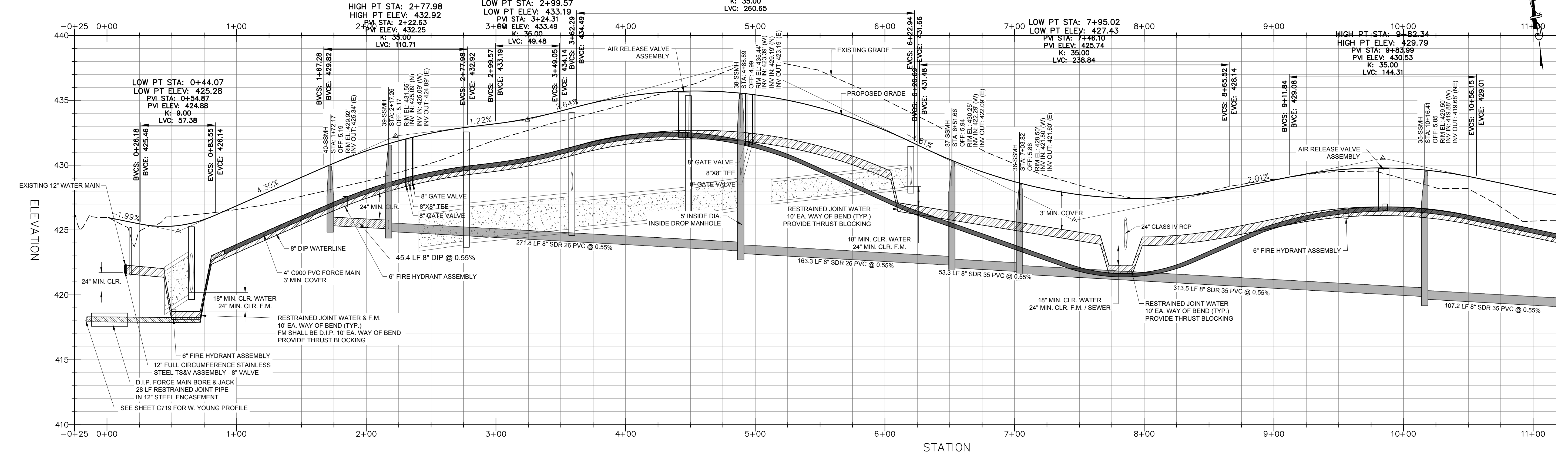
LONGSPUR LN.
 PLAN & PROFILE

Project Engineer: TSS
 Designed By: TEP
 Drawn By: TEP
 Checked By: TSS
 Scale: 1" = 40'
 Date: 09/08/2020
 Project Number: P170347

SHEET
C703



LONGSPUR LN. - PLAN
 SCALE: 1"=40'
 STA: 0+00 - 10+00



Line Table: Alignments

Line #	Length	Direction	Start Point	End Point
L6	183.49	S84° 21' 44.46"E	0+01.23	1+84.72
L7	400.01	S89° 34' 13.59"E	2+30.17	6+30.18
L8	272.70	N68° 27' 43.24"E	7+24.11	9+96.81
L9	35.25	N8° 24' 45.43"E	12+85.03	13+20.27

Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C4	500.00	45.45	S86° 57' 59.02"E	1+84.72	2+30.17
C5	245.00	93.93	N79° 26' 44.83"E	6+30.18	7+24.11
C6	275.00	288.22	N38° 26' 14.33"E	9+96.81	12+85.03

LONGSPUR LN. - PROFILE
 HOR. SCALE: 1"=40' VER. SCALE: 1"=4'
 STA: 0+00 - 10+00

SITE PERMITTING APPROVAL
 CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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City of Raleigh Development Approval
 Raleigh Water Review Officer

REV	DESCRIPTION	DATE
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01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020

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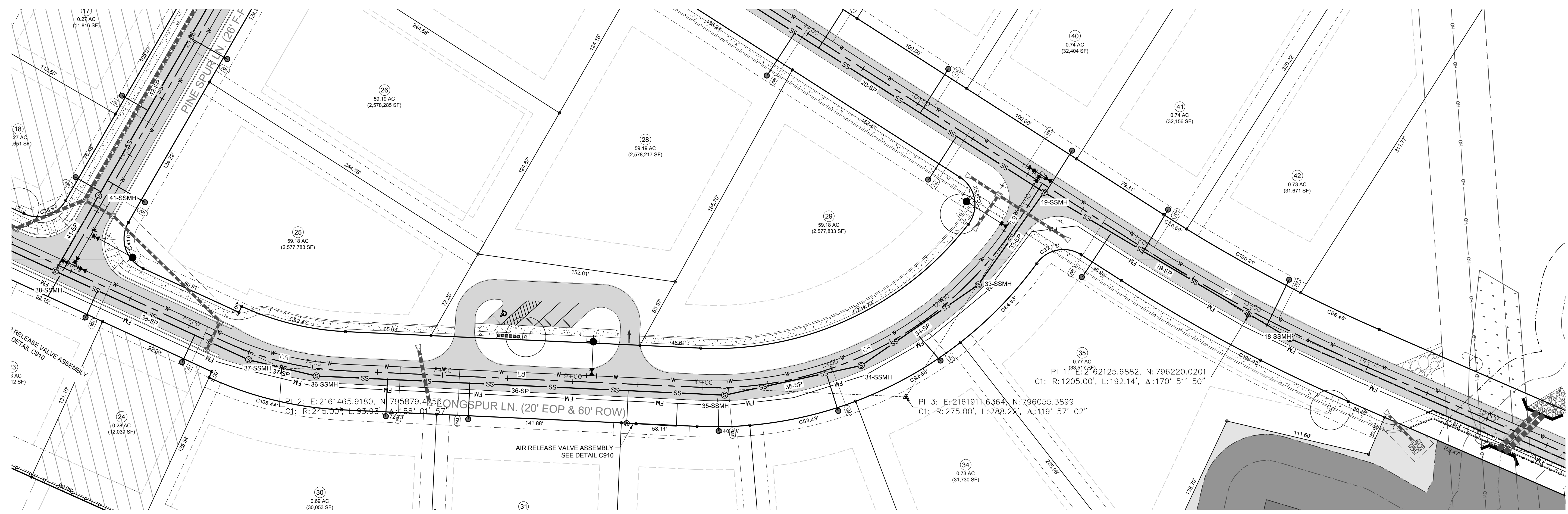
Bateman Civil Survey Company
 Engineers • Surveyors • Planners
 2524 Reliance Avenue, Apex, North Carolina 27539
 Phone: 919.577.1080 Fax: 919.577.1081
 NCBELS FIRN No. C-2378



CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION

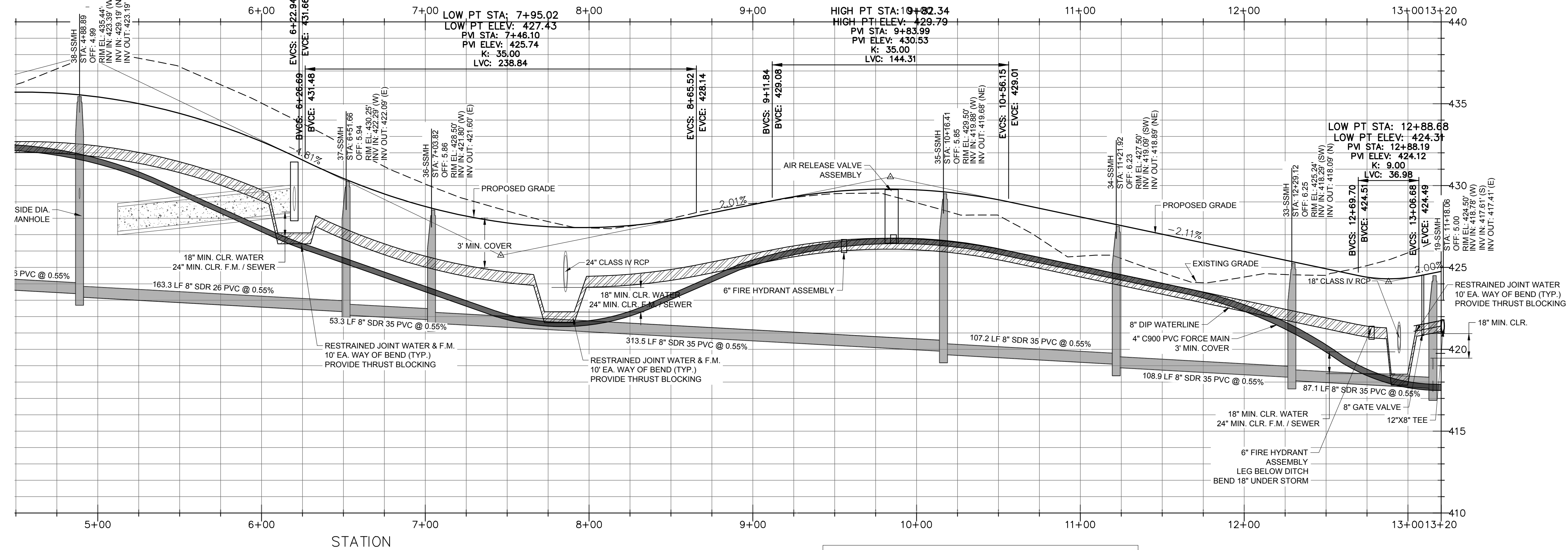
LONGSPUR LN.
 PLAN & PROFILE

Project Engineer: TSS
 Designed By: TEP
 Drawn By: TEP
 Checked By: TSS
 Scale: 1" = 40'
 Date: 09/08/2020
 Project Number: P170347
 SHEET
C704



LONGSPUR LN. - PLAN
 SCALE: 1"=40'
 STA: 10+00 - 13+20

HIGH PT STA: 4+54.61
 HIGH PT ELEV: 435.71
 PVI STA: 4+92.62
 PVI ELEV: 437.93
 K: 35.00
 LVC: 260.65



Line Table: Alignments

Line #	Length	Direction	Start Point	End Point
L6	183.49	S84° 21' 44.46"E	0+01.23	1+84.72
L7	400.01	S89° 34' 13.59"E	2+30.17	6+30.18
L8	272.70	N68° 27' 43.24"E	7+24.11	9+96.81
L9	35.25	N8° 24' 45.43"E	12+85.03	13+20.27

Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C4	500.00	45.45	S86° 57' 59.02"E	1+84.72	2+30.17
C5	245.00	93.93	N79° 26' 44.83"E	6+30.18	7+24.11
C6	275.00	288.22	N38° 26' 14.33"E	9+96.81	12+85.03

LONGSPUR LN. - PROFILE
 HOR. SCALE: 1"=40' VER. SCALE: 1"=4'
 STA: 10+00 - 13+20

SITE PERMITTING APPROVAL
 CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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City of Raleigh Development Approval
 Raleigh Water Review Officer

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REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
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REV	DESCRIPTION	DATE
	REVISIONS	



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 Engineers • Surveyors • Planners
 2524 Reliance Avenue, Apex, North Carolina 27539
 Phone: 919.577.1080 Fax: 919.577.1081
 NCBELS FRW No. C-2378

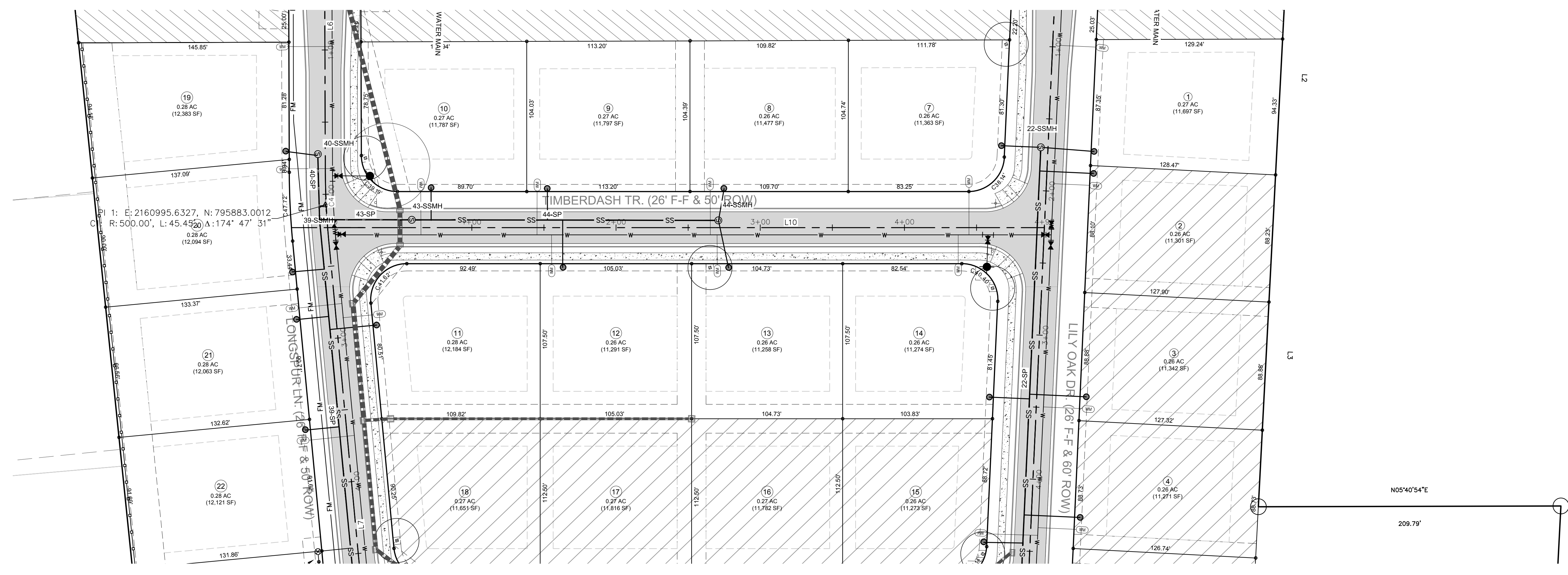


CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION

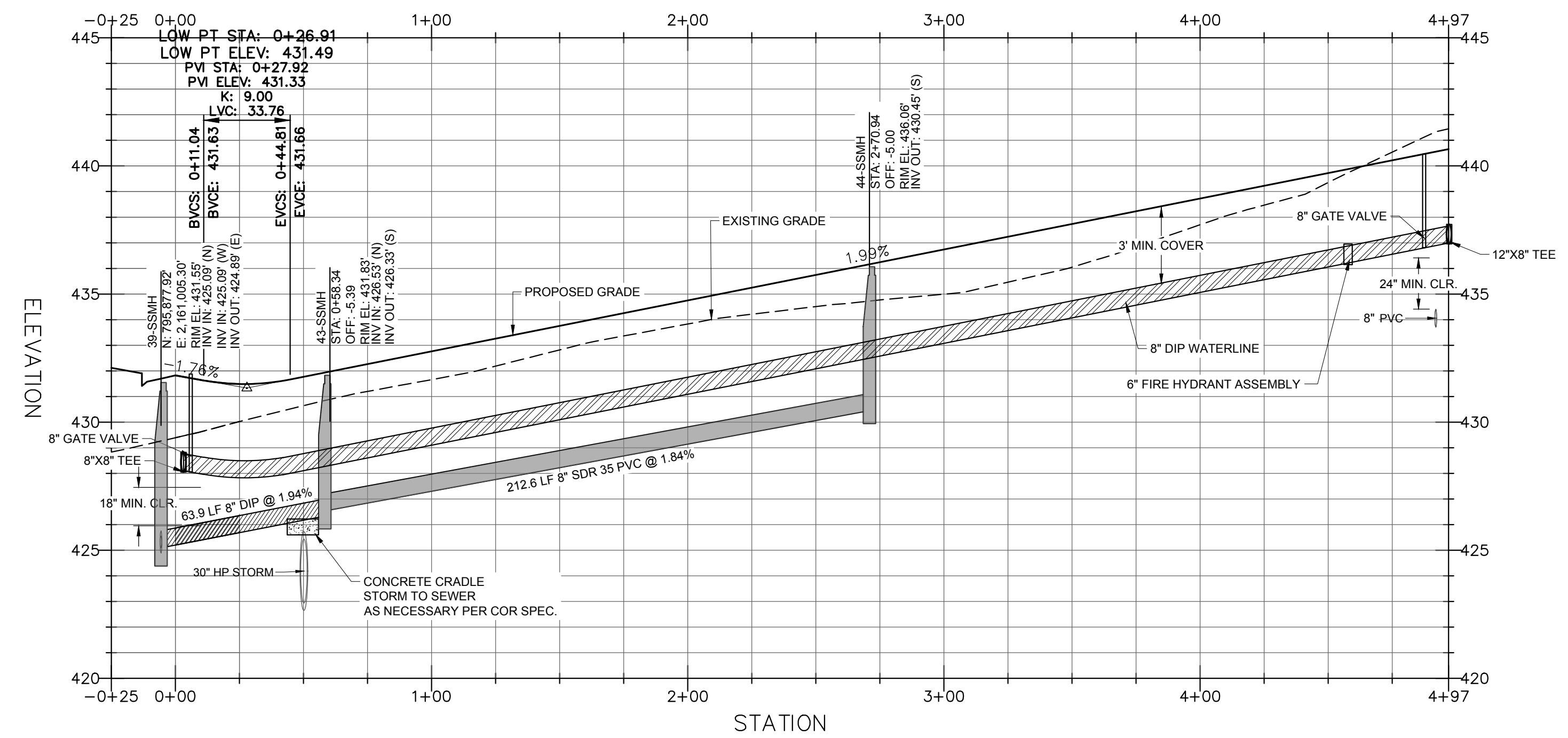
TIMBERDASH TR.
 PLAN & PROFILE

Project Engineer: TSS
 Designed By: TEP
 Drawn By: TEP
 Checked By: TSS
 Scale: 1" = 40'
 Date: 09/08/2020
 Project Number: P170347

SHEET
C705



TIMBERDASH TR. - PLAN
 SCALE: 1"=40'
 STA: 0+00 - 4+97



TIMBERDASH TR. - PROFILE
 HOR. SCALE: 1"=40' VER. SCALE: 1"=4'
 STA: 0+00 - 4+97

Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L10	497.00	N5° 49' 00.97"E	0+00.00	4+97.00

SITE PERMITTING APPROVAL
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City of Raleigh Development Approval
 Raleigh Water Review Officer

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	REVISIONS	

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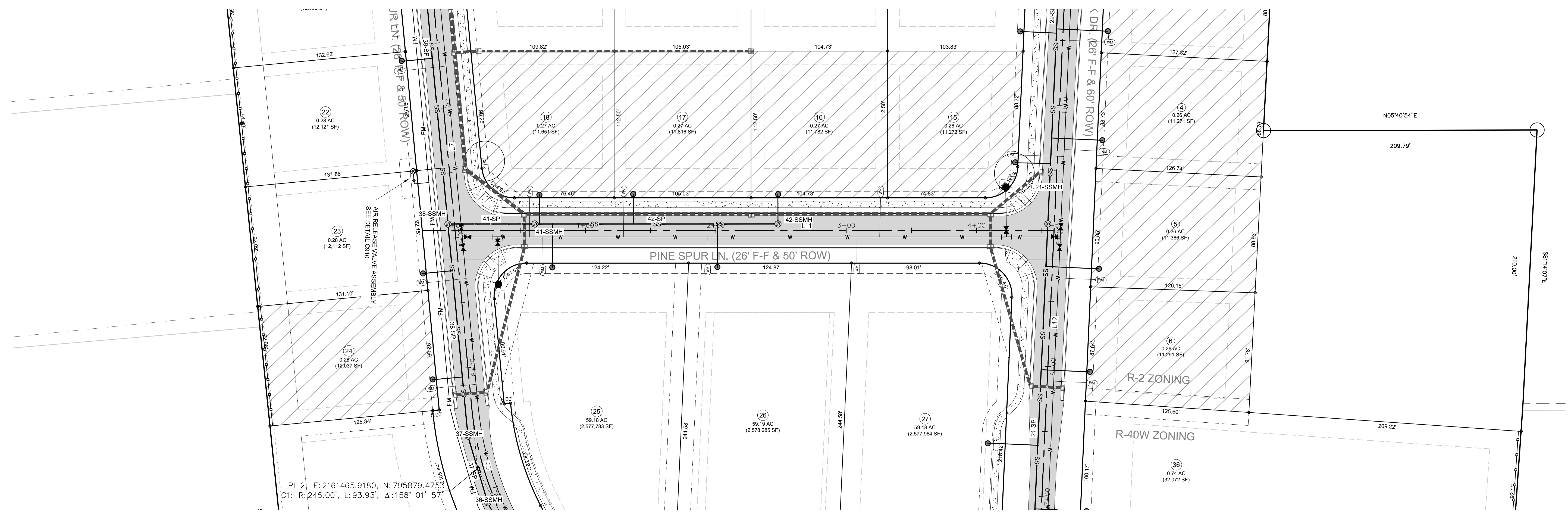


CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION
 410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY

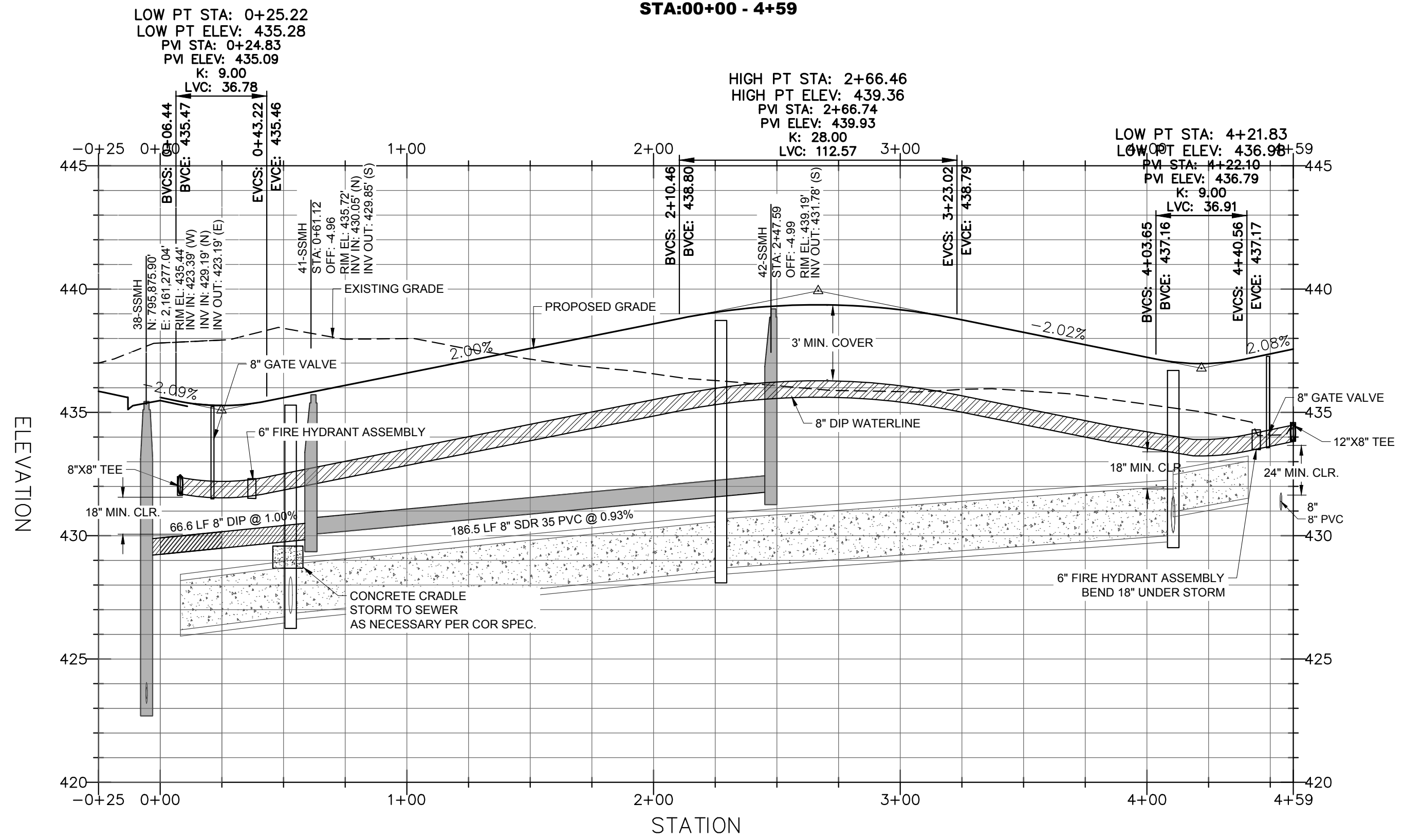
PINE SPUR LN.
 PLAN & PROFILE

Project Engineer: TSS
 Designed By: TEP
 Drawn By: TEP
 Checked By: TSS
 Scale: 1" = 40'
 Date: 09/08/2020
 Project Number: P170347

SHEET
C706



PINE SPUR LN. - PLAN
 SCALE: 1"=40'
 STA: 0+00 - 4+59



PINE SPUR LN. - PROFILE
 HOR. SCALE: 1"=40' VER. SCALE: 1"=4'
 STA: 0+00 - 4+59

Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L11	459.35	N5° 49' 00.97"E	0+00.00	4+59.35

SITE PERMITTING APPROVAL
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01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020
	REVISIONS	

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 NCBELS FIRW No. C-2378

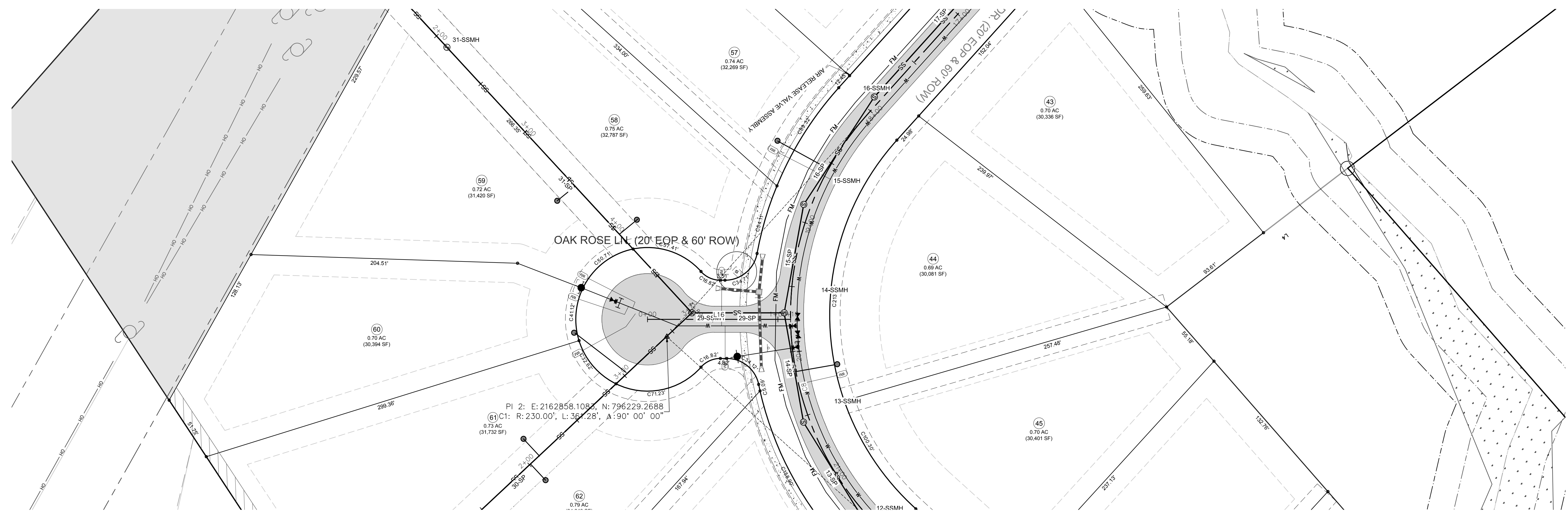


CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION
 410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY

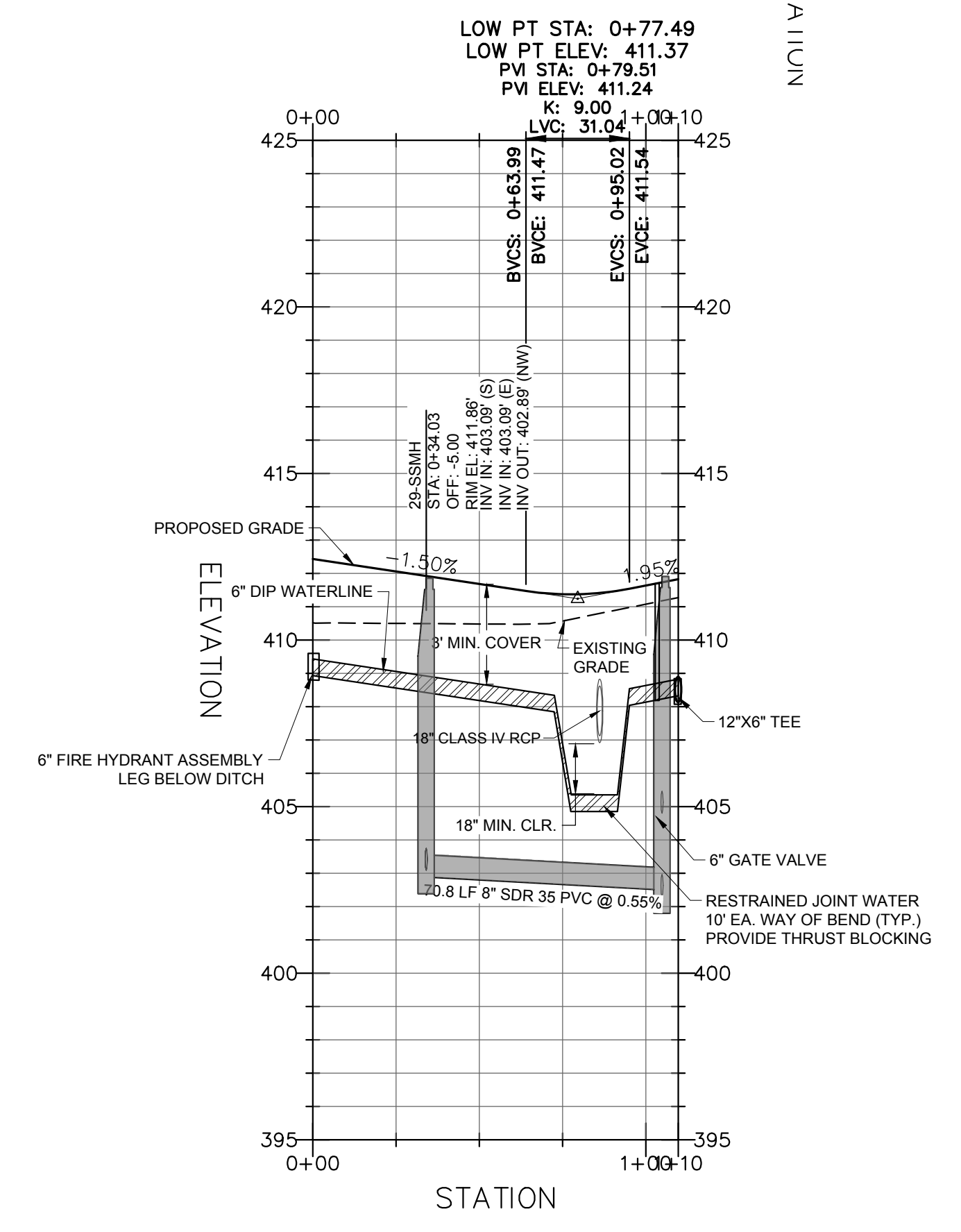
OAK ROSE LN.
 PLAN & PROFILE

Project Engineer: TSS
 Designed By: TEP
 Drawn By: TEP
 Checked By: TSS
 Scale: 1" = 40'
 Date: 09/08/2020

Project Number: P170347
 SHEET
C707



OAK ROSE LN. - PLAN
 SCALE: 1"=40'
 STA:00+00 - 1+10



OAK ROSE LN. - PROFILE
 HOR. SCALE: 1"=40' VER. SCALE: 1"=4'
 STA: 0+00 - 1+10

Line Table: Alignments

Line #	Length	Direction	Start Point	End Point
L16	109.71	N42° 46' 21.68"W	0+00.00	1+09.71

P:\2017 Projects\170347 Chandlers Ridge\Eng\CAD\DWG\TP SHEETS\170347_C707_ROW.DWG

REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
02	CONSTRUCTION DOCUMENTS 2ND SUBMITTAL	08/14/2020
01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020

SITE PERMITTING APPROVAL
 CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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City of Raleigh Development Approval
 Raleigh Water Review Officer



Bateman Civil Survey Company
 Engineers • Surveyors • Planners
 2524 Reliance Avenue, Apex, North Carolina 27539
 Phone: 919.577.1080 Fax: 919.577.1081
 NCBSLS FRM No. C-2378

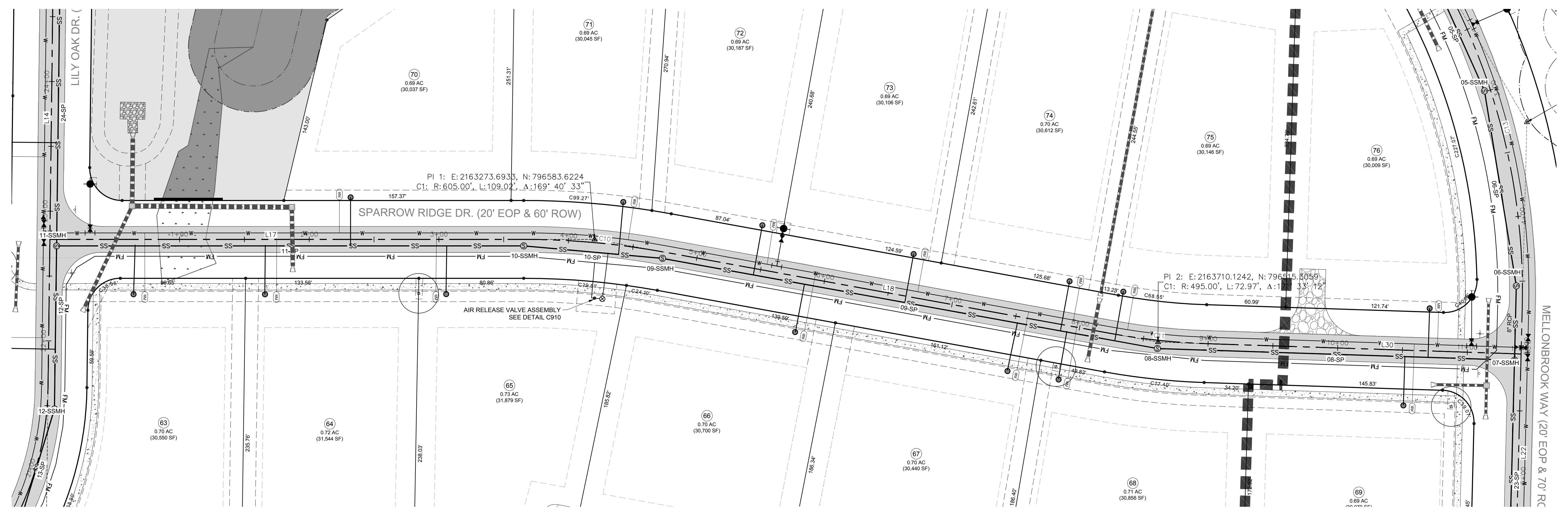


CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION

SPARROW RIDGE DR.
 PLAN & PROFILE

Project Engineer: TSS
 Designed By: TEP
 Drawn By: TEP
 Checked By: TSS
 Scale: 1" = 40'
 Date: 09/08/2020
 Project Number: P170347

SHEET
C708



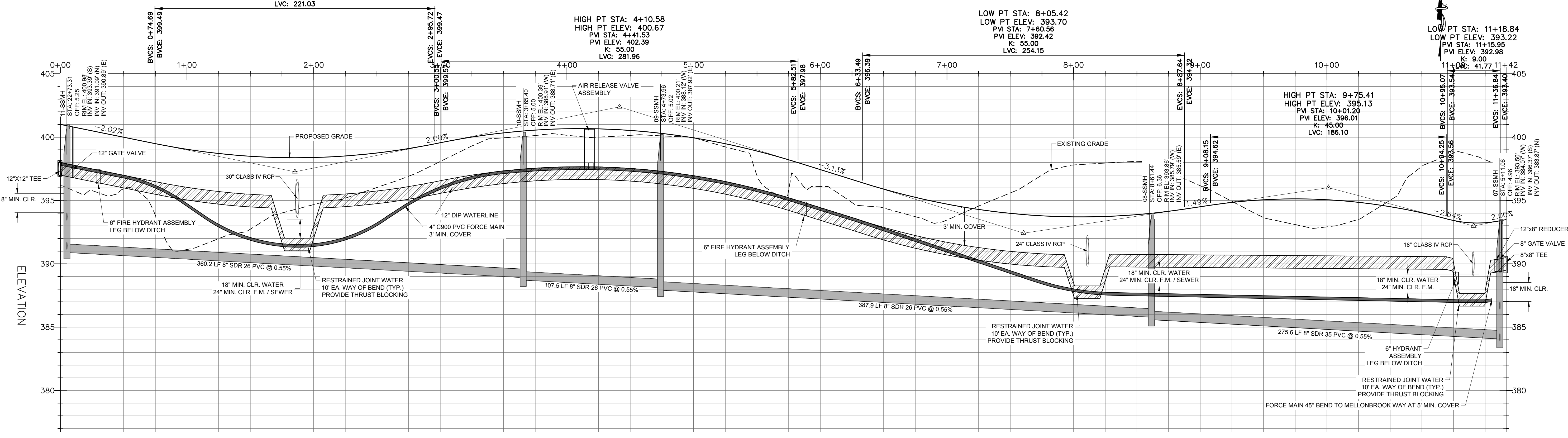
LOW PT STA: 1+85.69
 LOW PT ELEV: 398.37
 PVI STA: 1+85.20
 PVI ELEV: 397.26
 K: 55.00
 LVC: 221.03

SPARROW RIDGE DR. - PLAN
 SCALE: 1"=40'
 STA:00+00 - 11+00

HIGH PT STA: 4+10.58
 HIGH PT ELEV: 400.67
 PVI STA: 4+41.53
 PVI ELEV: 402.39
 K: 55.00
 LVC: 281.96

LOW PT STA: 8+05.42
 LOW PT ELEV: 393.70
 PVI STA: 7+60.56
 PVI ELEV: 392.42
 K: 55.00
 LVC: 254.15

LOW PT STA: 11+18.84
 LOW PT ELEV: 393.22
 PVI STA: 11+18.95
 PVI ELEV: 392.98
 K: 9.00
 LVC: 41.77



Line Table: Alignments

Line #	Length	Direction	Start Point	End Point
L17	365.40	N88° 34' 20.15"E	0+00.00	3+65.40
L18	350.54	S81° 06' 12.36"E	4+74.42	8+24.95
L30	243.60	S89° 32' 59.98"E	8+97.93	11+41.53

SPARROW RIDGE DR. - PROFILE
 HOR. SCALE: 1"=40' VER. SCALE: 1"=4'
 STA: 0+00 - 11+00

Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C10	605.00	109.02	S86° 15' 56.11"E	3+65.40	4+74.42
C11	495.00	72.97	S85° 19' 36.17"E	8+24.95	8+97.93

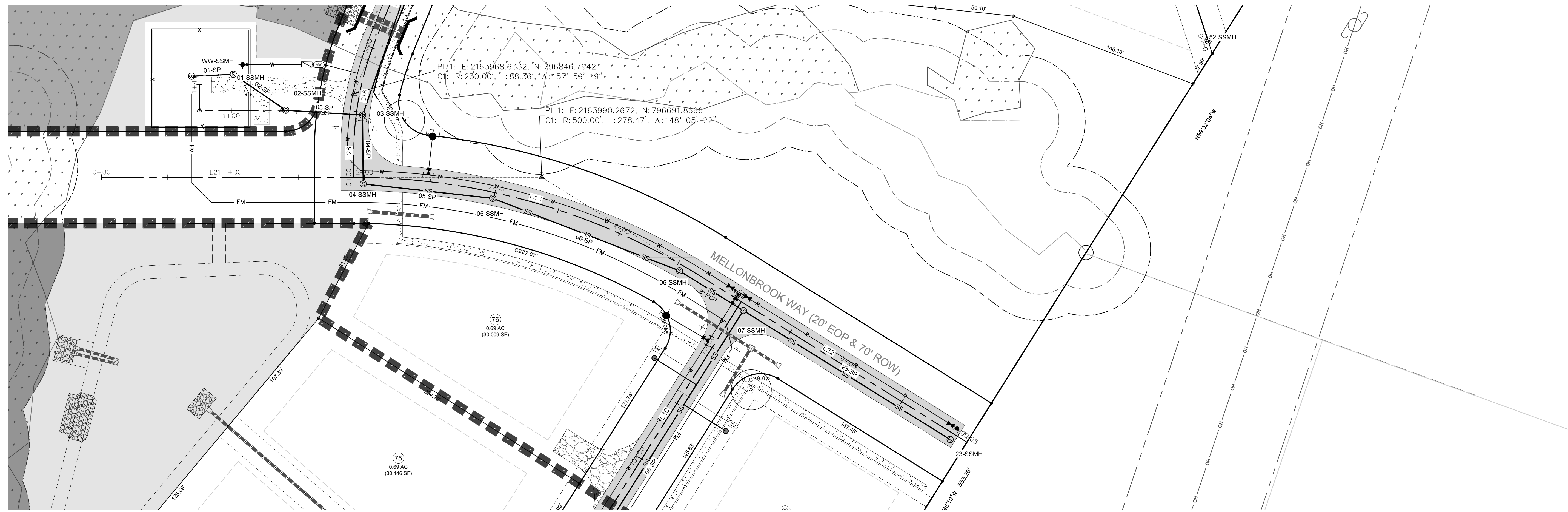
SITE PERMITTING APPROVAL
 CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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City of Raleigh Development Approval
 Raleigh Water Review Officer

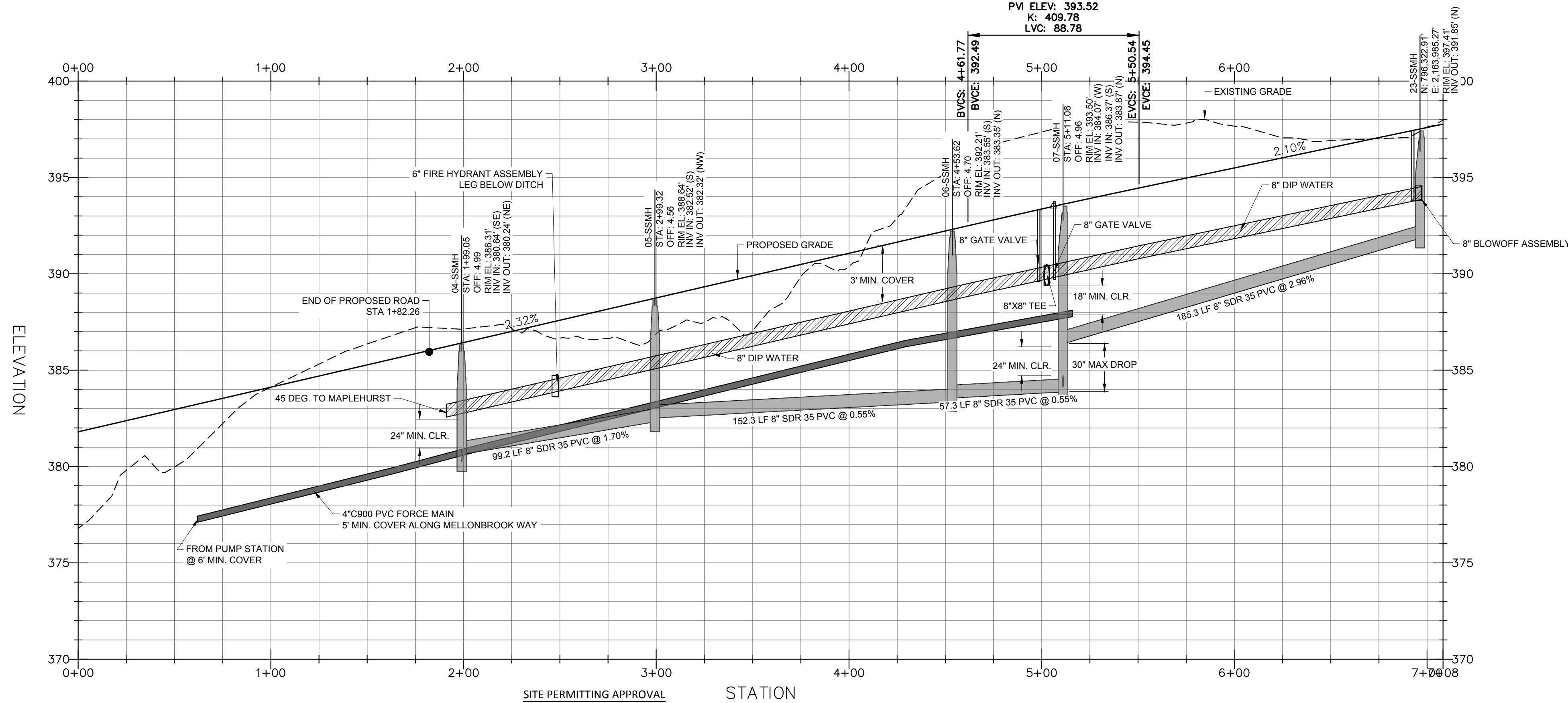
REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
02	CONSTRUCTION DOCUMENTS 2ND SUBMITTAL	08/14/2020
01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020
REV	DESCRIPTION	DATE
	REVISIONS	

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MELLONBROOK WAY - PLAN
SCALE: 1"=40'
STA: 0+00 - 7+08

HIGH PT STA: 5+50.54
 HIGH PT ELEV: 394.45
 PVI STA: 5+06.16
 PVI ELEV: 393.52
 K: 409.78
 LVC: 88.78



MELLONBROOK WAY - PROFILE
HOR. SCALE: 1"=40' VER. SCALE: 1"=4'
STA: 0+00 - 7+08

Line Table: Alignments

Line #	Length	Direction	Start Point	End Point
L22	237.94	S0° 00' 00.00"E	4+70.34	7+08.28
L21	191.87	S31° 54' 37.54"E	0+00.00	1+91.87

Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C13	500.00	278.47	S15° 57' 18.77"E	1+91.87	4+70.34

P:\2017\Projects\170347 - Chandlers Ridge\Eng\CADD\DWG\TP SHEETS\170347_C709_ROW.DWG

REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
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 City of Raleigh Development Approval
 Raleigh Water Review Officer



Bateman Civil Survey Company
 Engineers • Surveyors • Planners
 2524 Reliance Avenue, Apex, North Carolina 27539
 Phone: 919.577.1080 Fax: 919.577.1081
 NCBELS FIRW No. C-2378



CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION

MELLONBROOK WAY
 PLAN & PROFILE

Project Engineer: TSS
 Designed By: TEP
 Drawn By: TEP
 Checked By: TSS
 Scale: 1" = 40'
 Date: 09/08/2020
 Project Number: P170347
 SHEET
C709



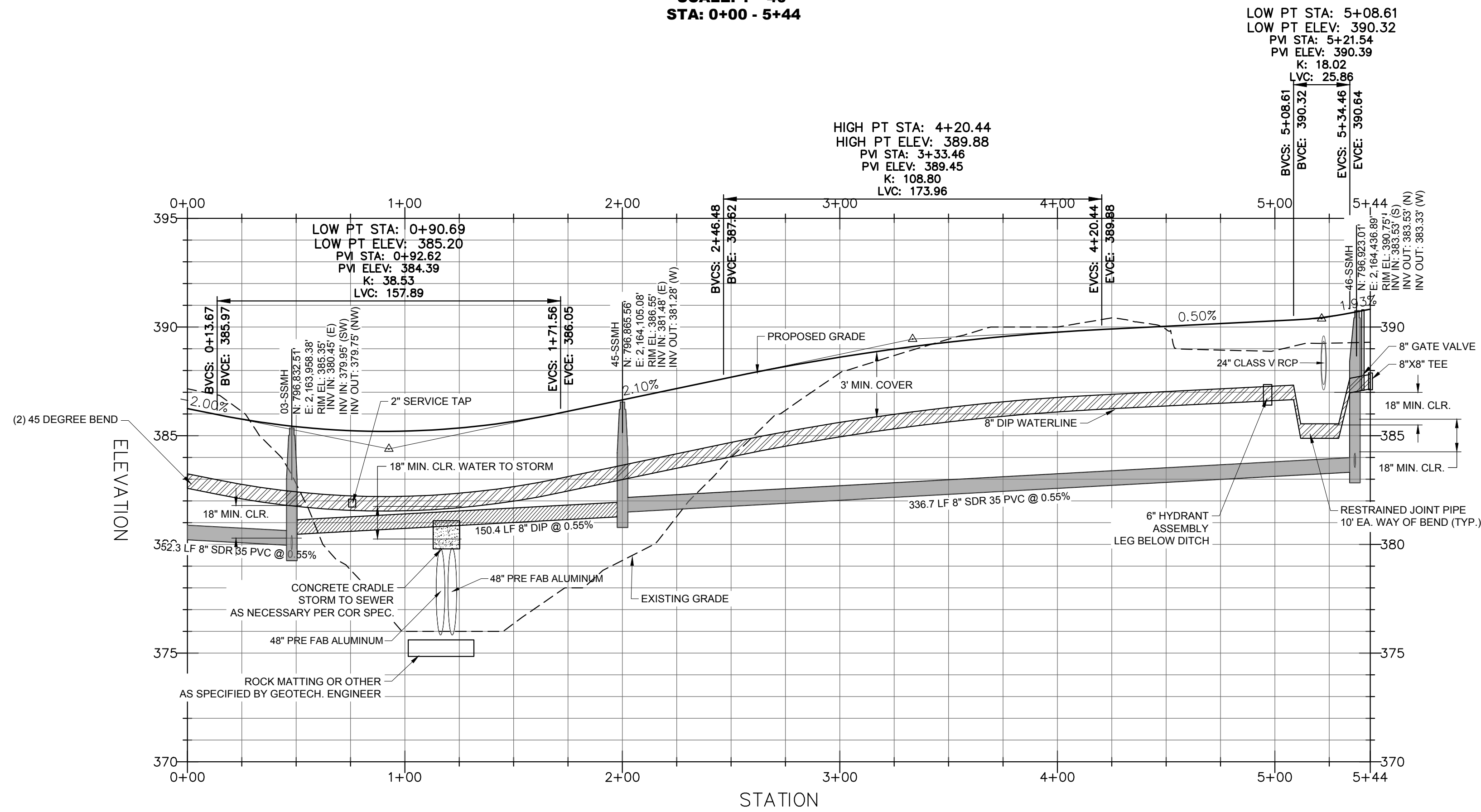
MAPLEHURST DR. - PLAN
SCALE: 1"=40'
STA: 0+00 - 5+44

Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C16	230.00	88.36	N69° 05' 43.04"E	0+18.80	1+07.16

Line Table: Alignments

Line #	Length	Direction	Start Point	End Point
L26	18.80	N58° 05' 22.46"E	0+00.00	0+18.80
L27	436.77	N80° 06' 03.61"E	1+07.16	5+43.92



MAPLEHURST DR. - PROFILE
HOR. SCALE: 1"=40' VER. SCALE: 1"=4'
STA: 0+00 - 5+44

P:\2017\Projects\170347 - Chandlers Ridge\Eng\CAD\DWG\TP SHEETS\170347_C710_R000.dwg

REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
02	CONSTRUCTION DOCUMENTS 2ND SUBMITTAL	08/14/2020
01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020

SITE PERMITTING APPROVAL
CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION
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 City of Raleigh Development Approval
 Raleigh Water Review Officer



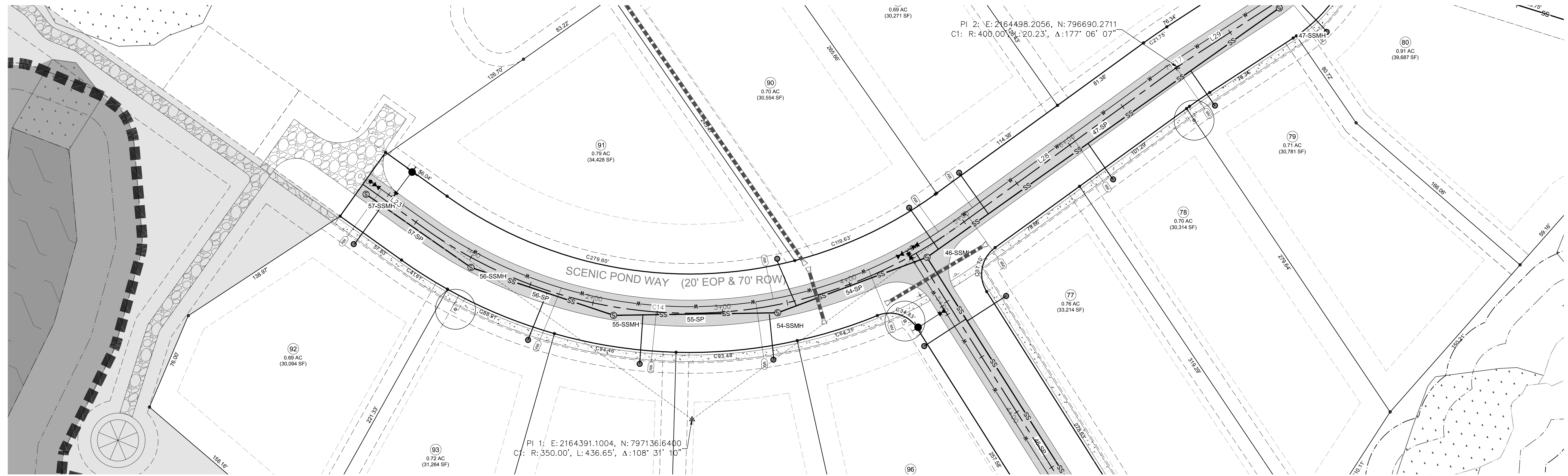
Bateman Civil Survey Company
 Engineers • Surveyors • Planners
 2524 Reliance Avenue, Apex, North Carolina 27539
 Phone: 919.577.1080 Fax: 919.577.1081
 NCBSLS FIRW No. C-2378



CHANDLER'S RIDGE
CONSTRUCTION DOCUMENTS
CONSERVATION SUBDIVISION
 410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY

MAPLEHURST DR.
PLAN & PROFILE

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 40'
Date:	09/08/2020
Project Number:	P170347
SHEET	C710



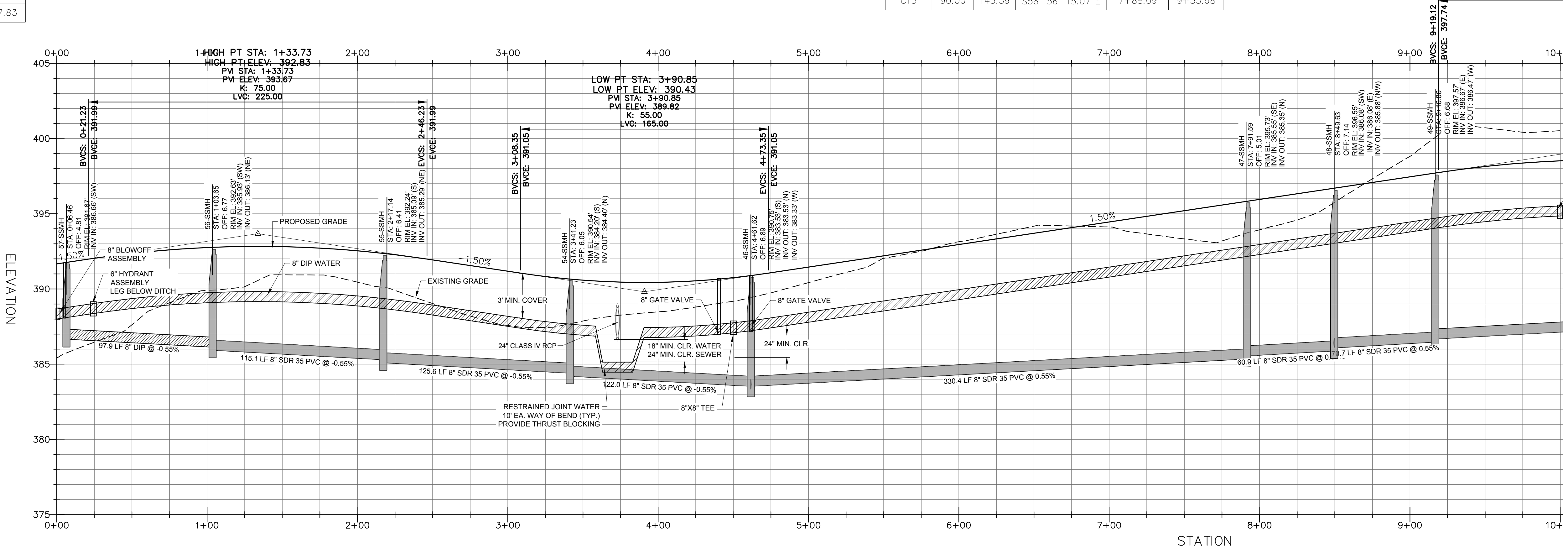
Line Table: Alignments

Line #	Length	Direction	Start Point	End Point
L25	493.81	N76° 43' 11.74"E	9+33.68	14+27.50
L29	76.34	S10° 35' 41.87"E	7+11.76	7+88.09
L28	197.05	S13° 29' 34.43"E	4+94.48	6+91.52
L23	57.83	S57° 59' 15.62"W	0+00.00	0+57.83

Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C14	350.00	436.65	S22° 14' 50.59"W	0+57.83	4+94.48
C17	400.00	20.23	S12° 02' 38.15"E	6+91.52	7+11.76
C15	90.00	145.59	S56° 56' 15.07"E	7+88.09	9+33.68

SCENIC POND WAY - PLAN
SCALE: 1"=40'
STA: 0+00 - 9+50



SCENIC POND WAY - PROFILE
HOR. SCALE: 1"=40' VER. SCALE: 1"=4'
STA: 0+00 - 9+50

SITE PERMITTING APPROVAL
CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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City of Raleigh Development Approval
Raleigh Water Review Officer

REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
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01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020
	REVISIONS	



Bateman Civil Survey Company
Engineers • Surveyors • Planners
2524 Relliance Avenue, Apex, North Carolina 27539
Phone: 919.577.1080 Fax: 919.577.1081
NCBELS FRM No. C-2378



CHANDLER'S RIDGE
CONSTRUCTION DOCUMENTS
CONSERVATION SUBDIVISION

410 W. YOUNG ST.
ROLESVILLE, NC
WAKE COUNTY

SCENIC POND WAY
PLAN & PROFILE

Project Engineer: TSS
Designed By: TEP
Drawn By: TEP
Checked By: TSS
Scale: 1" = 40'

Date: 09/08/2020

Project Number: P170347

SHEET
C711



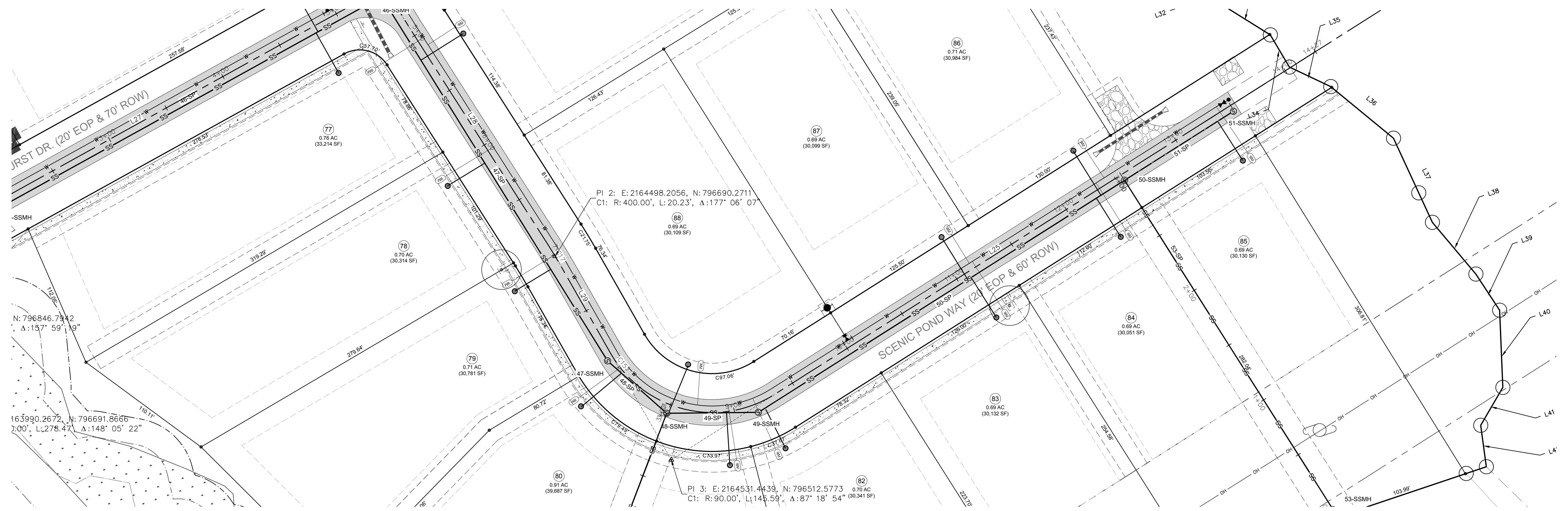
Bateman Civil Survey Company
 Engineers • Surveyors • Planners
 2524 Reliance Avenue, Apex, North Carolina 27539
 Phone: 919.577.1080 Fax: 919.577.1081
 NCBELS FIRM No. C-2378



**CHANDLER'S RIDGE
 CONSERVATION DOCUMENTS
 CONSERVATION SUBDIVISION**
 410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY

**SCENIC POND WAY
 PLAN & PROFILE**

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 40'
Date:	09/08/2020
Project Number:	P170347
SHEET	
C712	



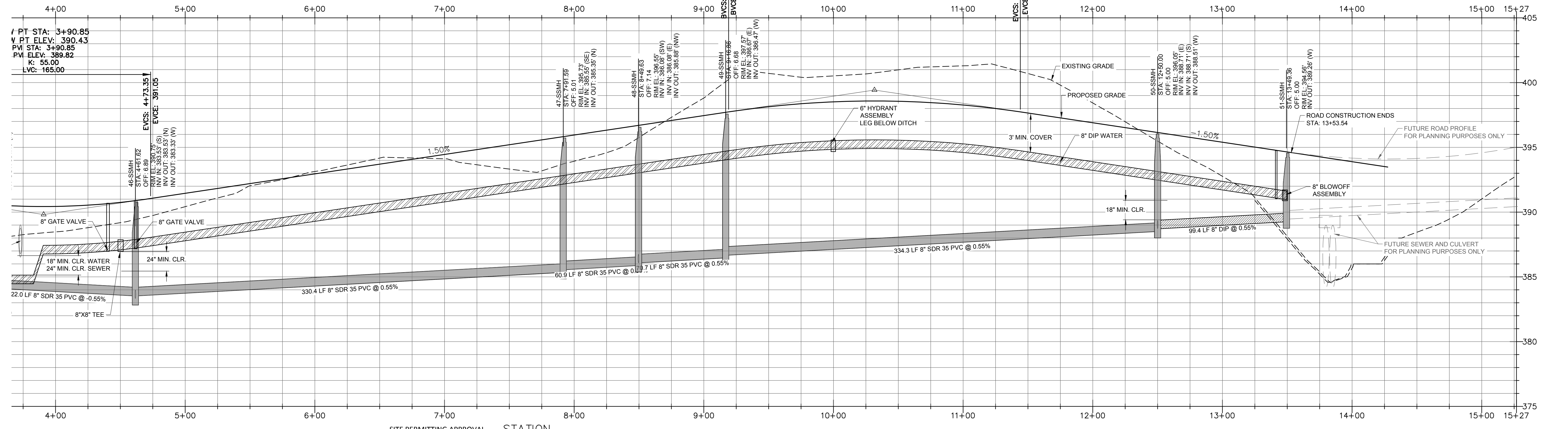
Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C14	350.00	436.65	S22° 14' 50.59"W	0+57.83	4+94.48
C17	400.00	20.23	S12° 02' 38.15"E	6+91.52	7+11.76
C15	90.00	145.59	S56° 56' 15.07"E	7+88.09	9+33.68

Line Table: Alignments

Line #	Length	Direction	Start Point	End Point
L25	493.81	N76° 43' 11.74"E	9+33.68	14+27.50
L29	76.34	S10° 35' 41.87"E	7+11.76	7+88.09
L28	197.05	S13° 29' 34.43"E	4+94.48	6+91.52
L23	57.83	S57° 59' 15.62"W	0+00.00	0+57.83

SCENIC POND WAY - PLAN
SCALE: 1"=40'
STA: 9+50 - 13+27
 HIGH PT STA: 10+31.57
 HIGH PT ELEV: 398.58
 PVI STA: 10+31.82
 PVI ELEV: 399.43
 K: 74.97
 LVC: 225.00



SCENIC POND WAY - PROFILE
HOR. SCALE: 1"=40' VER. SCALE: 1"=4'
STA: 9+50 - 13+27

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REV	DESCRIPTION	DATE
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02	CONSTRUCTION DOCUMENTS 2ND SUBMITTAL	08/14/2020
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REV	DESCRIPTION	DATE

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 City of Raleigh Development Approval
 Raleigh Water Review Officer



Bateman Civil Survey Company
 Engineers • Surveyors • Planners
 2524 Reliance Avenue, Apex, North Carolina 27539
 Phone: 919.577.1080 Fax: 919.577.1081
 NCBELS FIRM No. C-2378

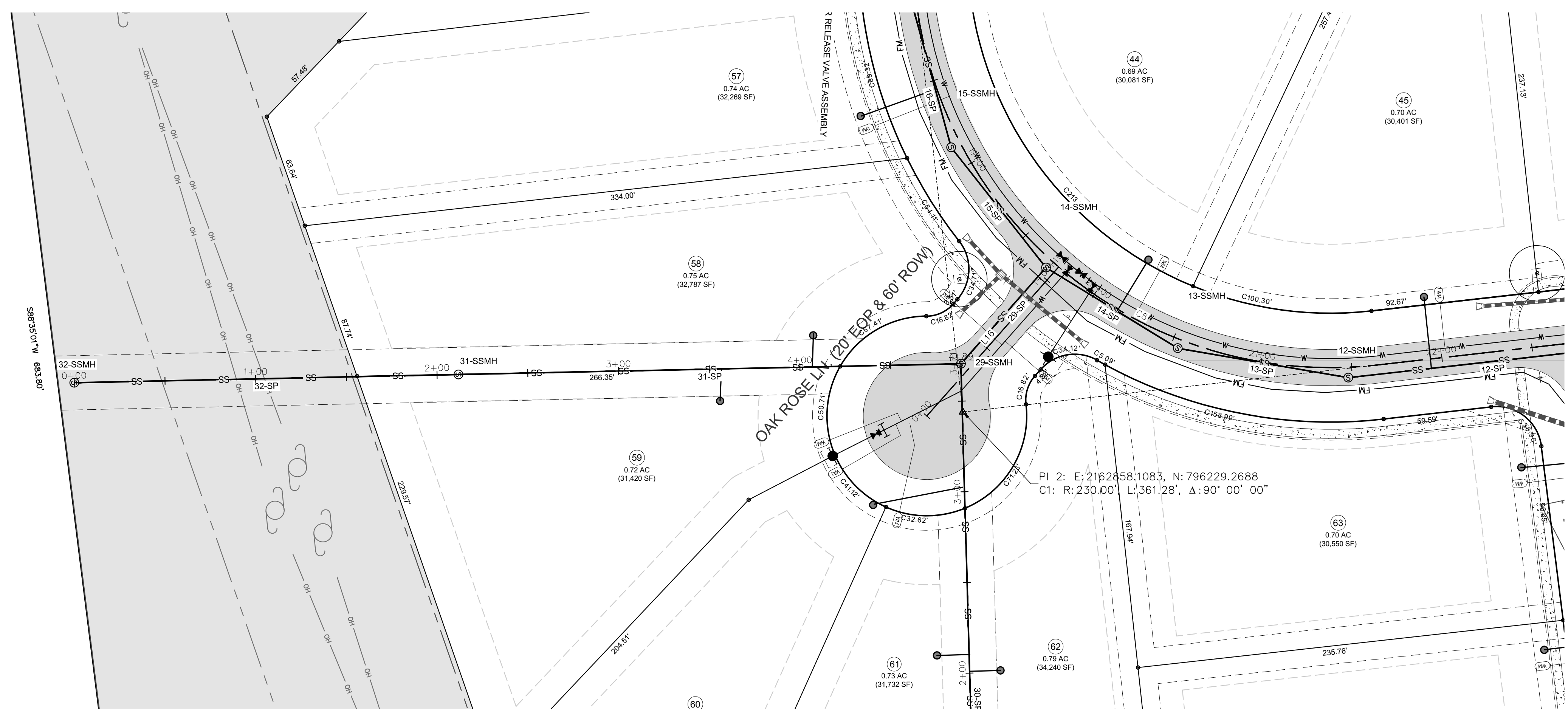


CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION
 410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY

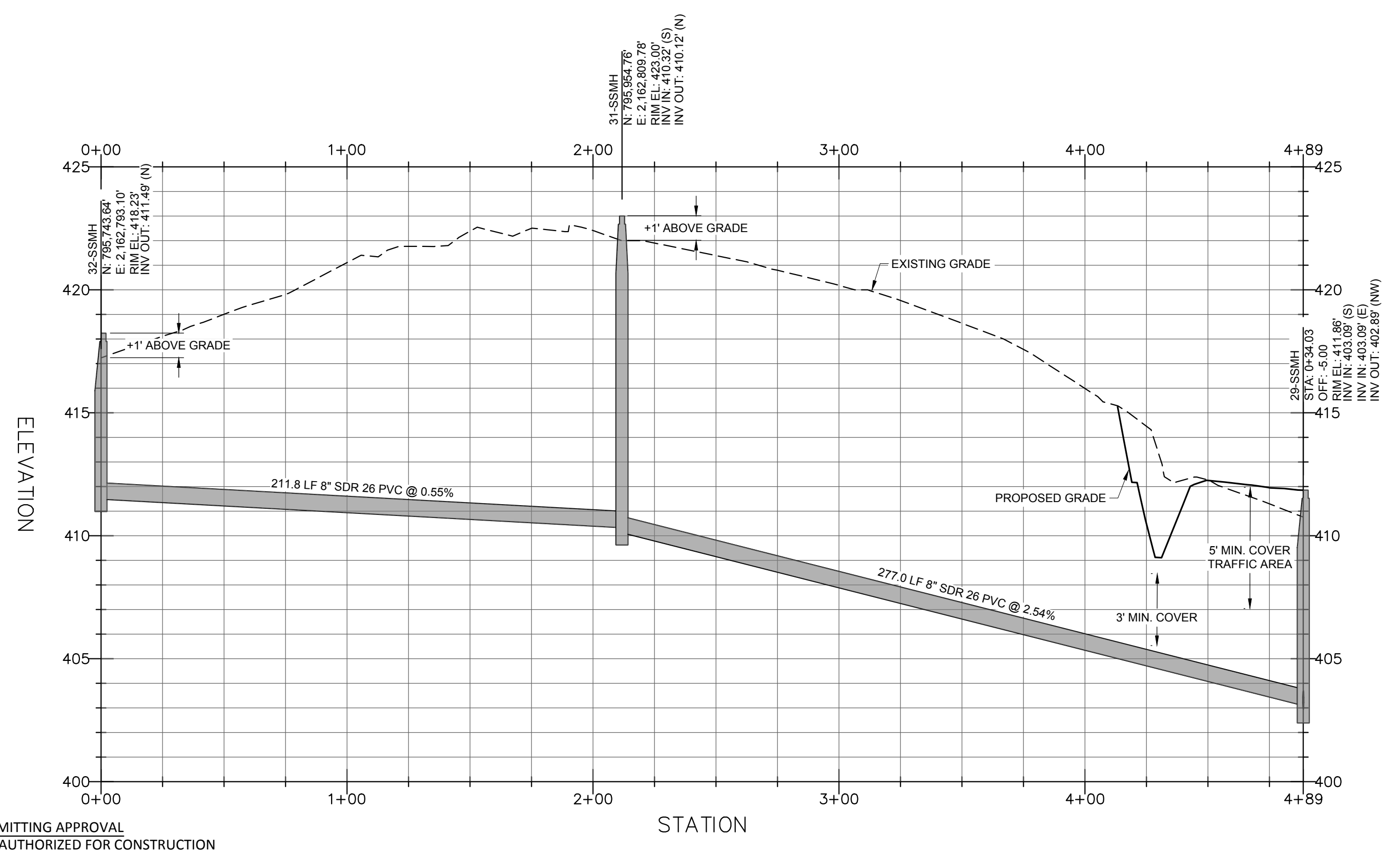
LOT 58 / 59 SEWER STUB
 PLAN & PROFILE

Project Engineer: TSS
 Designed By: TEP
 Drawn By: TEP
 Checked By: TSS
 Scale: 1" = 40'
 Date: 09/08/2020

Project Number: P170347
 SHEET
C713



LOT 58 / 59 - PLAN
SCALE: 1"=40'
STA: 0+00 - 4+89



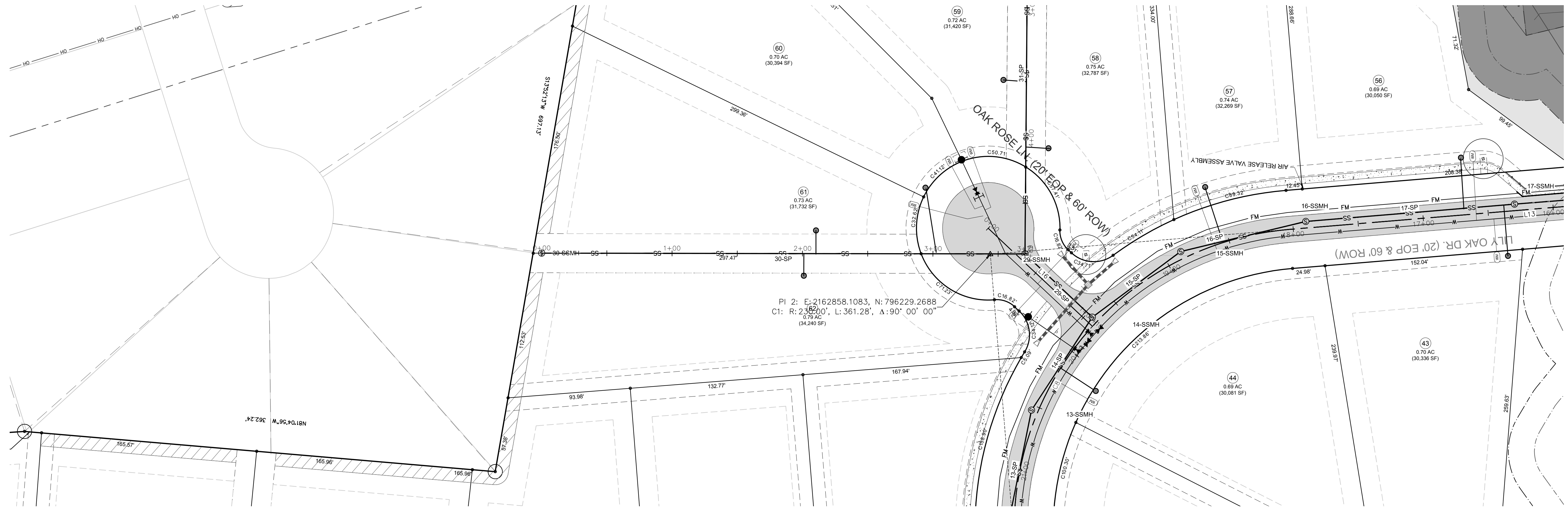
LOT 58 / 59 - PROFILE
HOR. SCALE: 1"=40' VER. SCALE: 1"=4'
STA: 0+00 - 4+89

SITE PERMITTING APPROVAL
 CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

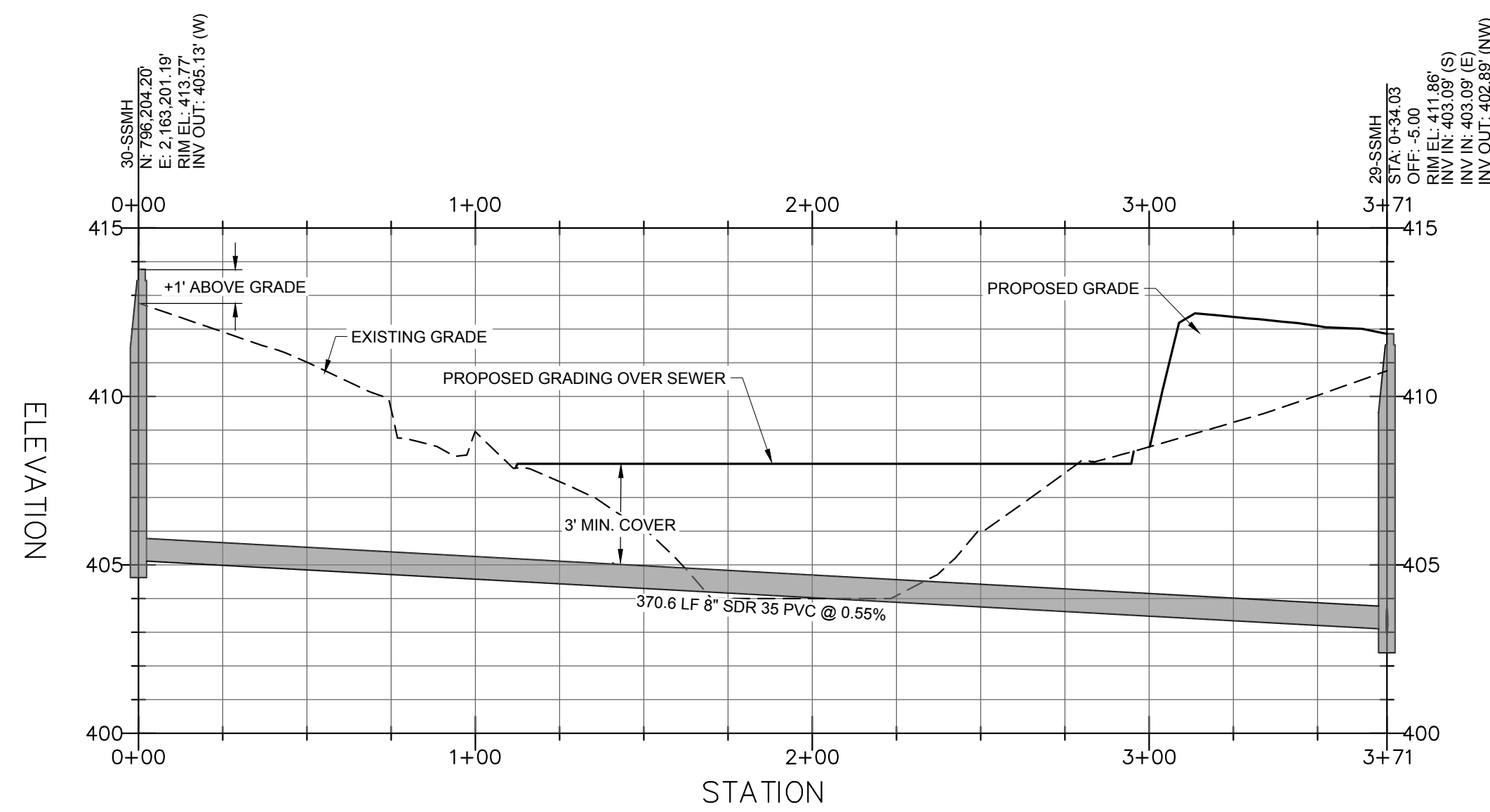
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City of Raleigh Development Approval
 Raleigh Water Review Officer

REV	DESCRIPTION	DATE
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01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020
REV	DESCRIPTION	DATE
	REVISIONS	



LOT 61 / 62 - PLAN
SCALE: 1"=40'
STA: 0+00 - 3+71



LOT 61 / 62 - PROFILE
HOR. SCALE: 1"=40' VER. SCALE: 1"=4'
STA: 0+00 - 3+71

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REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
02	CONSTRUCTION DOCUMENTS 2ND SUBMITTAL	08/14/2020
01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020

SITE PERMITTING APPROVAL
CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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City of Raleigh Development Approval
 Raleigh Water Review Officer



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 Engineers • Surveyors • Planners
 2524 Reliance Avenue, Apex, North Carolina 27539
 Phone: 919.577.1080 Fax: 919.577.1081
 NCBSLS FRM No. C-2378



CHANDLER'S RIDGE
CONSTRUCTION DOCUMENTS
CONSERVATION SUBDIVISION

410 W. YOUNG ST.
 ROLLETSVILLE, NC
 WAKE COUNTY

LOT 61 / 62 SEWER STUB
PLAN & PROFILE

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 40'
Date:	09/08/2020
Project Number:	P170347
SHEET	
C714	



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 2524 Relliance Avenue, Apex, North Carolina 27539
 Phone: 919.577.1080 Fax: 919.577.1081
 NCBELS FIRW No. C-2378

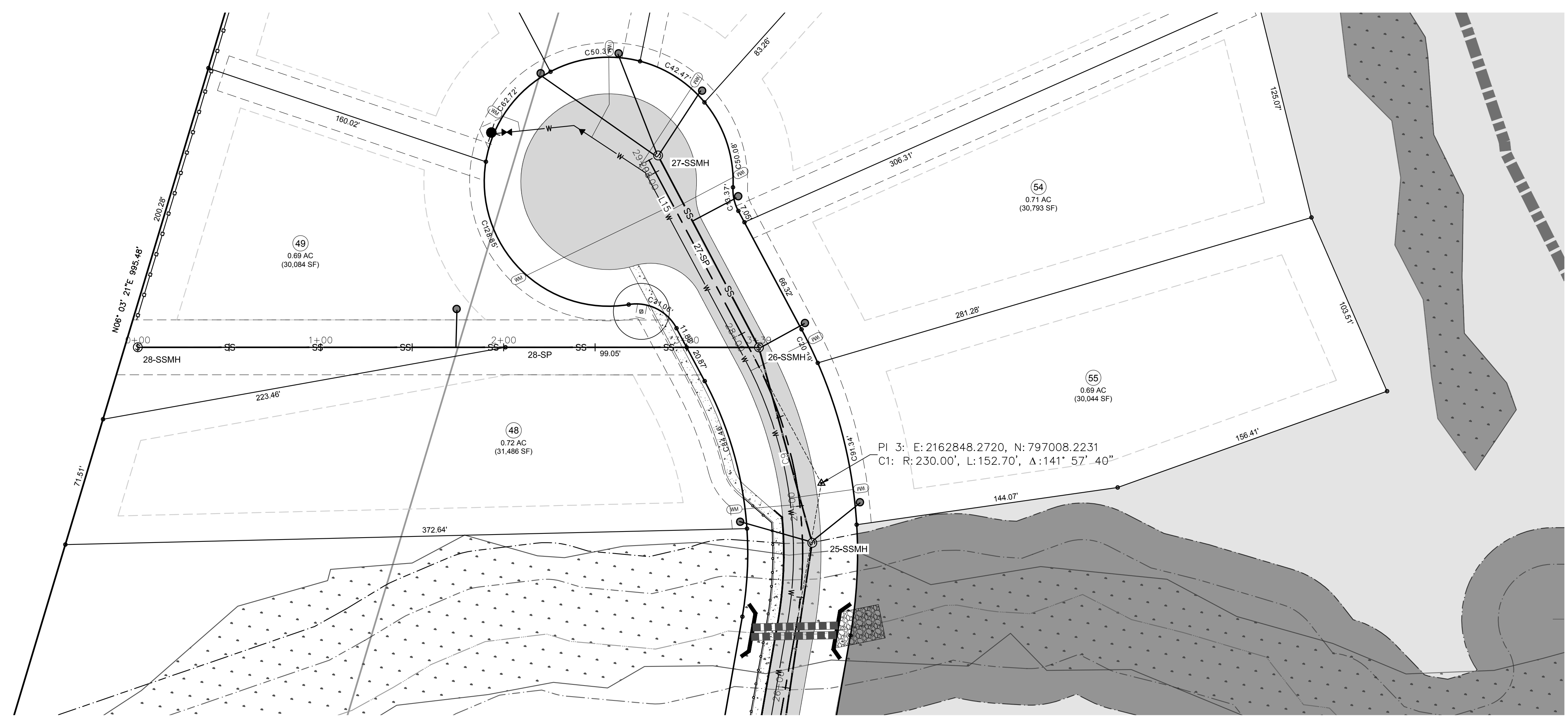


CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION
 410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY

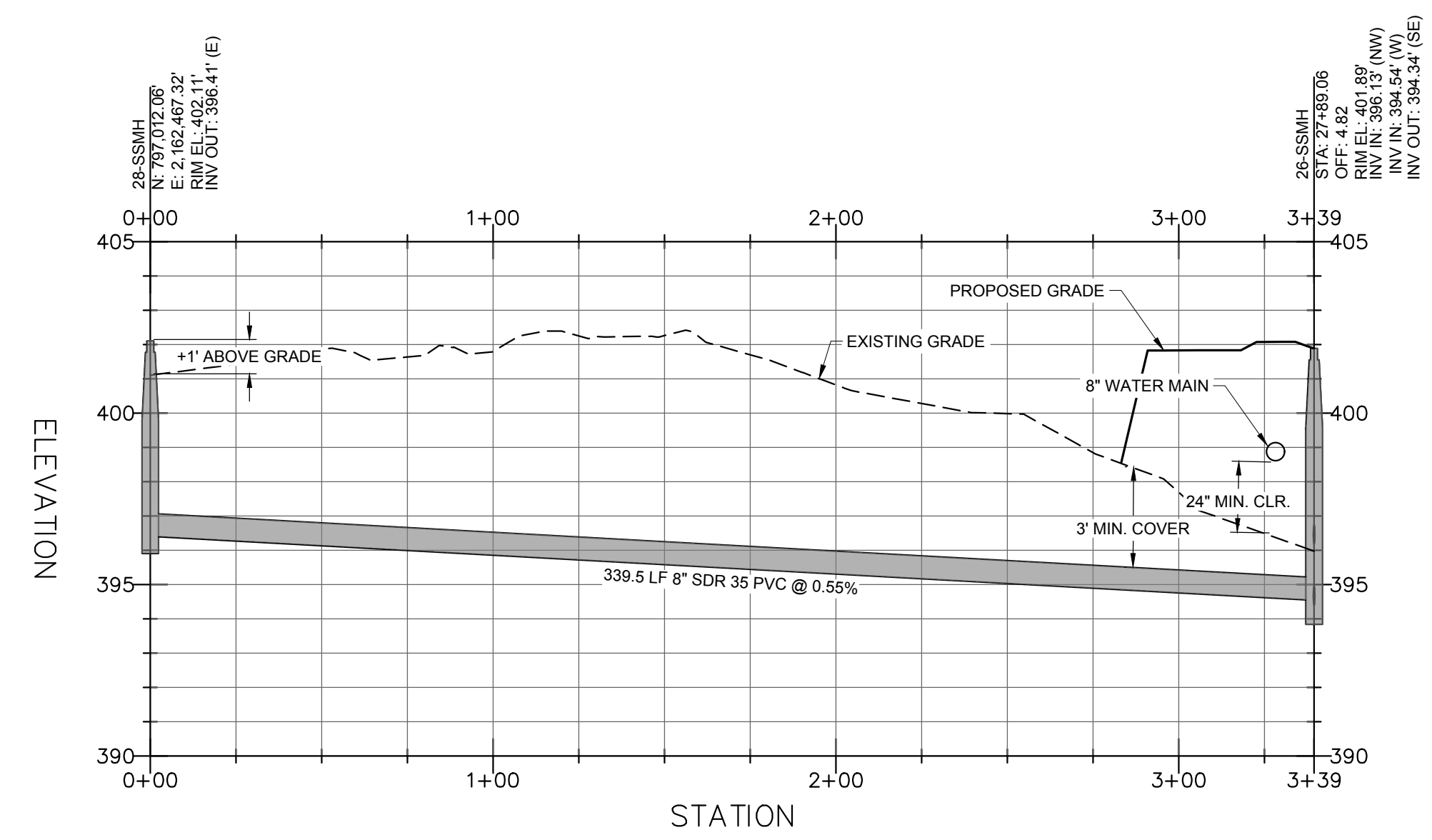
LOT 48 / 49 SEWER STUB
 PLAN & PROFILE

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 40'
Date:	09/08/2020
Project Number:	P170347

SHEET
C715



LOT 48 / 49 - PLAN
 SCALE: 1"=40'
 STA: 0+00 - 3+39



LOT 48 / 49 - PROFILE
 HOR. SCALE: 1"=40' VER. SCALE: 1"=4'
 STA: 0+00 - 3+39

SITE PERMITTING APPROVAL
 CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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City of Raleigh Development Approval
 Raleigh Water Review Officer

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01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020
	REVISIONS	



Bateman Civil Survey Company
 Engineers • Surveyors • Planners
 2524 Reliance Avenue, Apex, North Carolina 27539
 Phone: 919.577.1080 Fax: 919.577.1081
 NCBELS FIRW No. C-2378

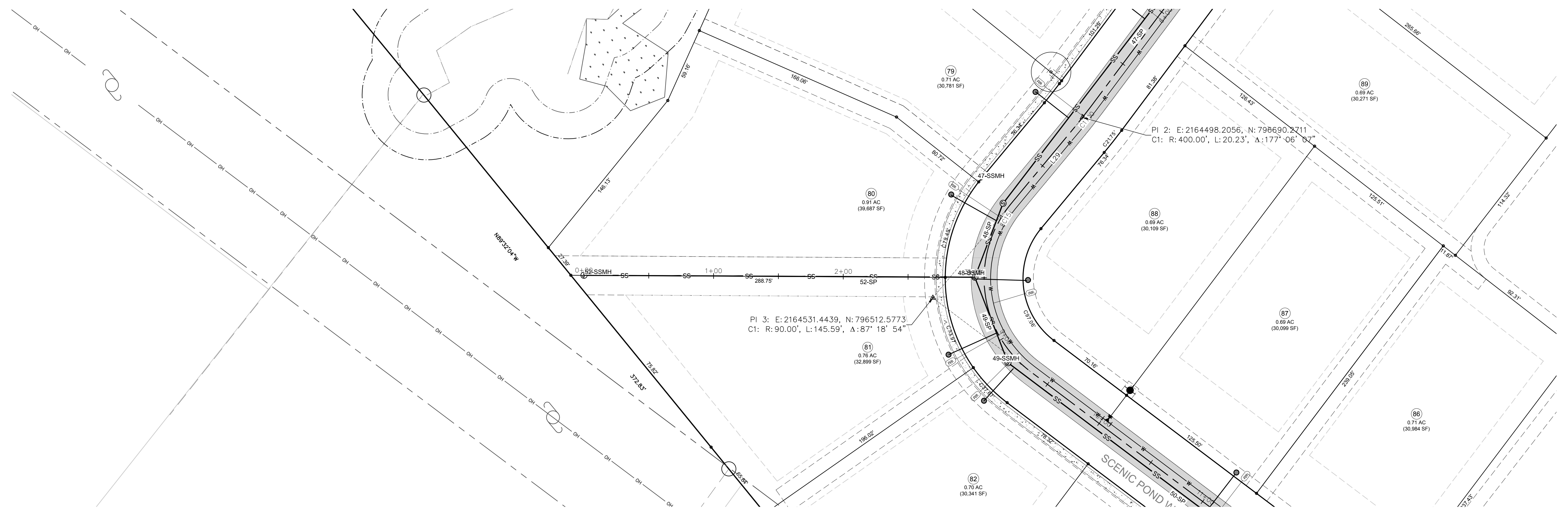


**CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION**
 410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY

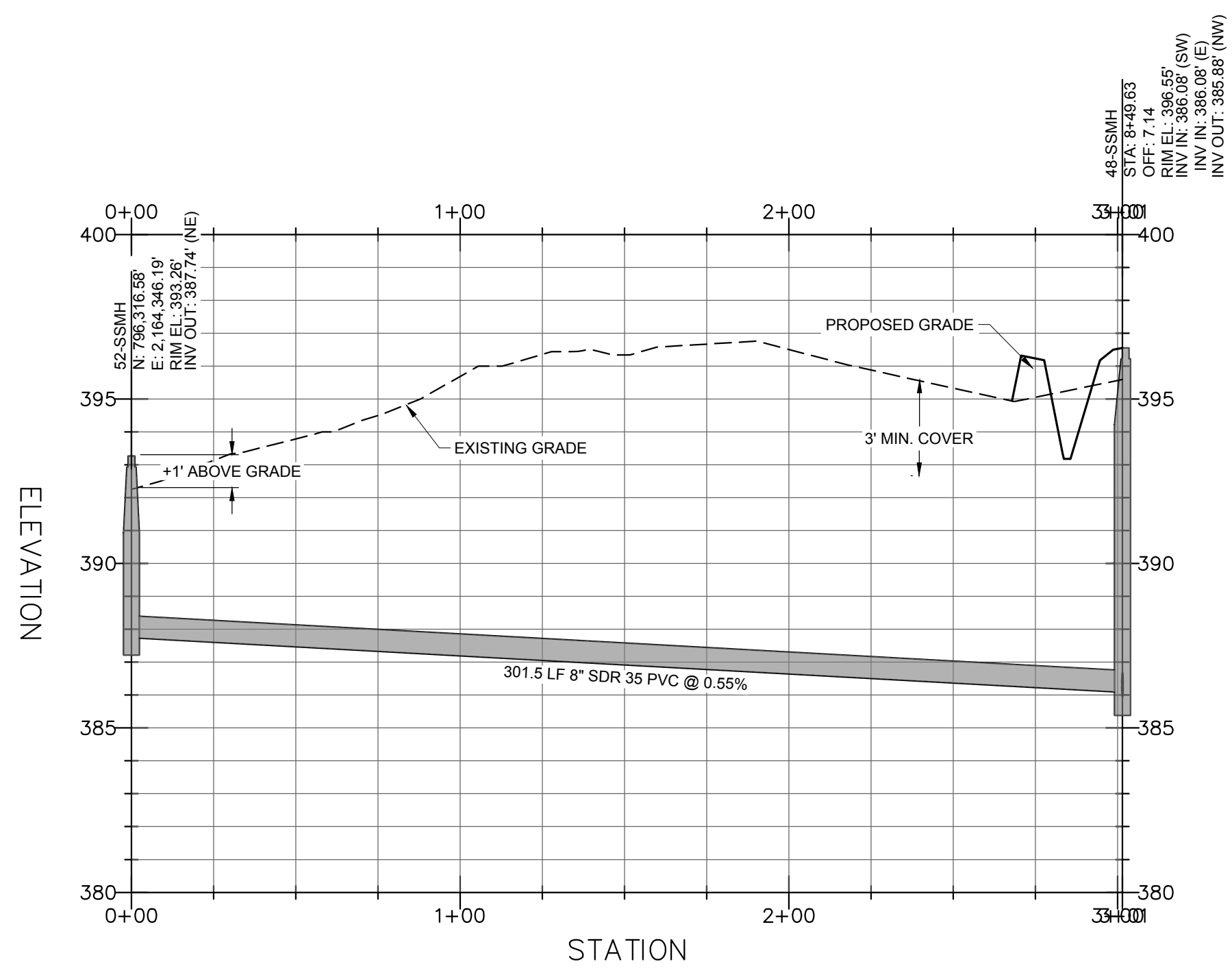
**LOT 80 / 81 SEWER STUB
 PLAN & PROFILE**

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 40'
Date:	09/08/2020
Project Number:	P170347

SHEET
C716



**LOT 80 / 81 - PLAN
 SCALE: 1"=40'
 STA: 0+00 - 3+01**



**LOT 80 / 81 - PROFILE
 HOR. SCALE: 1"=40' VER. SCALE: 1"=4'
 STA: 0+00 - 3+01**

SITE PERMITTING APPROVAL
 CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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City of Raleigh Development Approval
 Raleigh Water Review Officer

REV	DESCRIPTION	DATE
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01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020
	REVISIONS	

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 Engineers • Surveyors • Planners
 2524 Reliance Avenue, Apex, North Carolina 27539
 Phone: 919.577.1080 Fax: 919.577.1081
 NCBELS FIRW No. C-2378

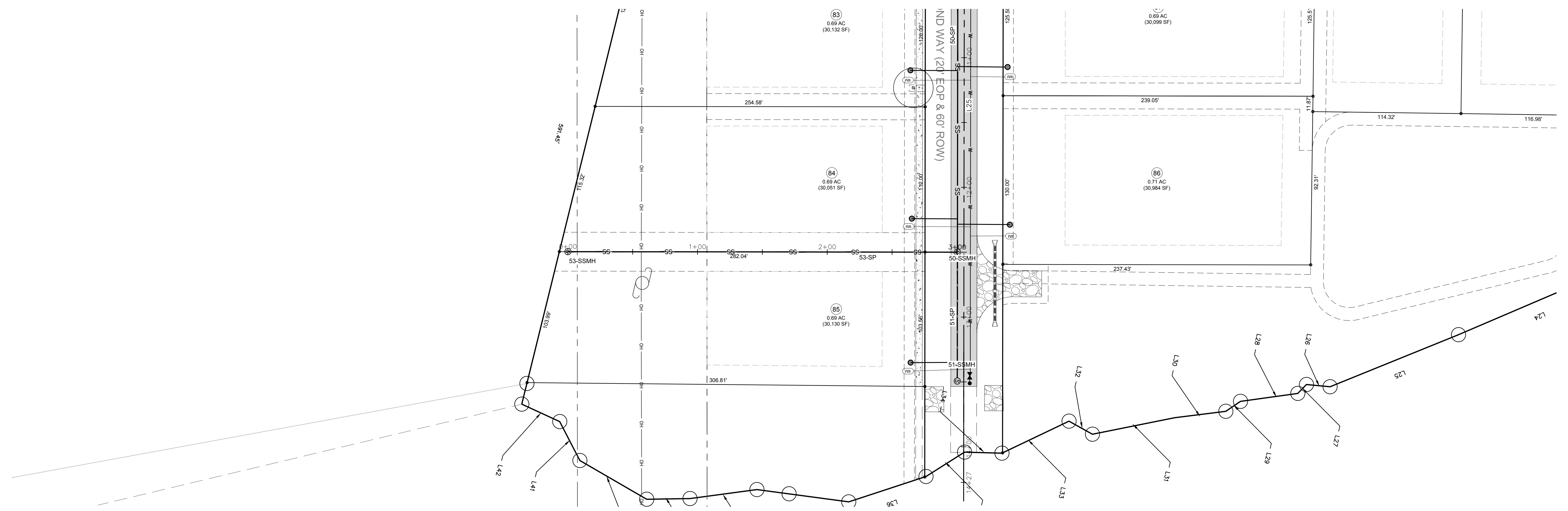


CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION
 410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY

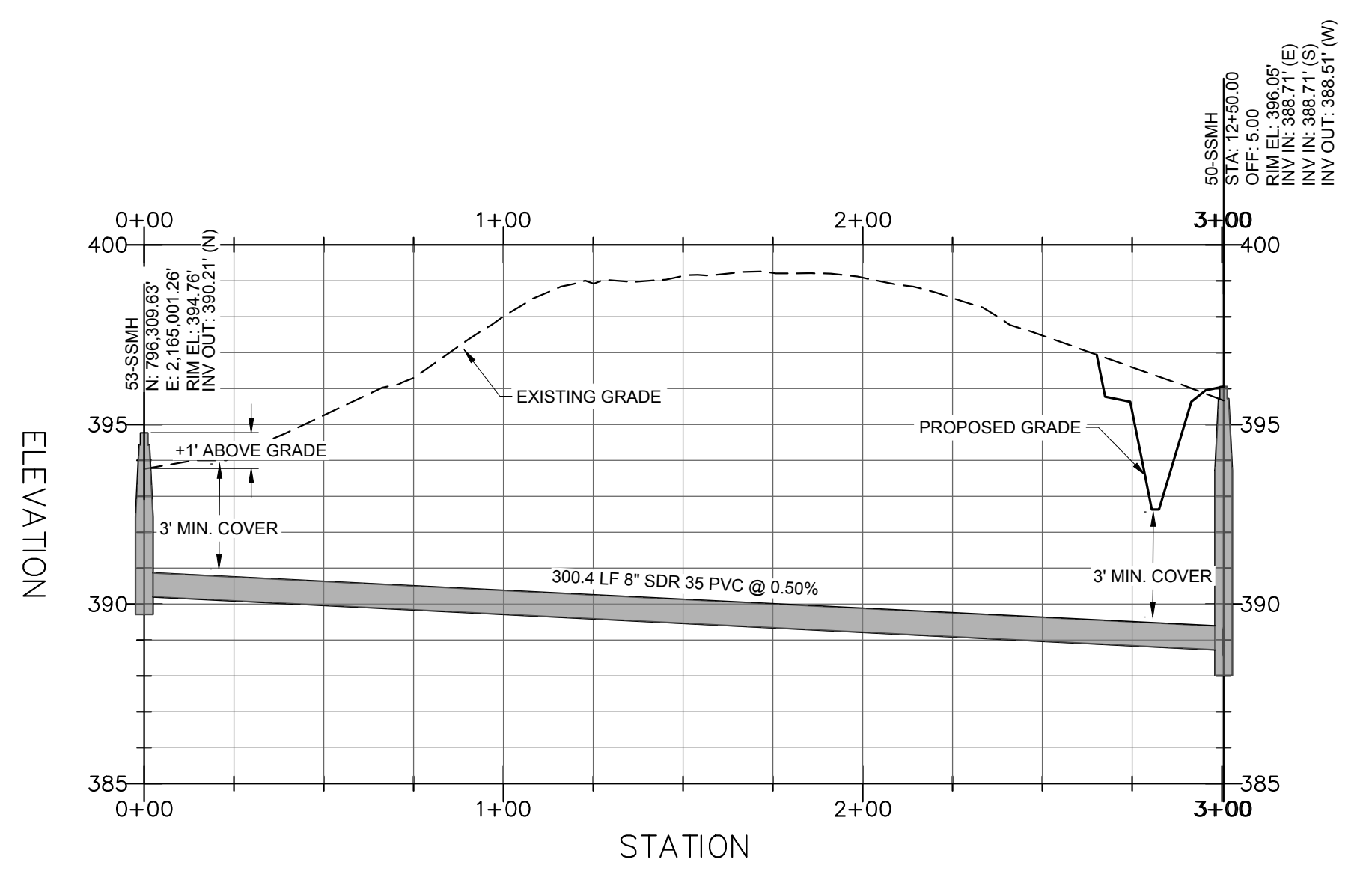
LOT 84 / 85 SEWER STUB
PLAN & PROFILE

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 40'
Date:	09/08/2020
Project Number:	P170347

SHEET
C717



LOT 84 / 85 - PLAN
SCALE: 1"=40'
STA: 0+00 - 3+00



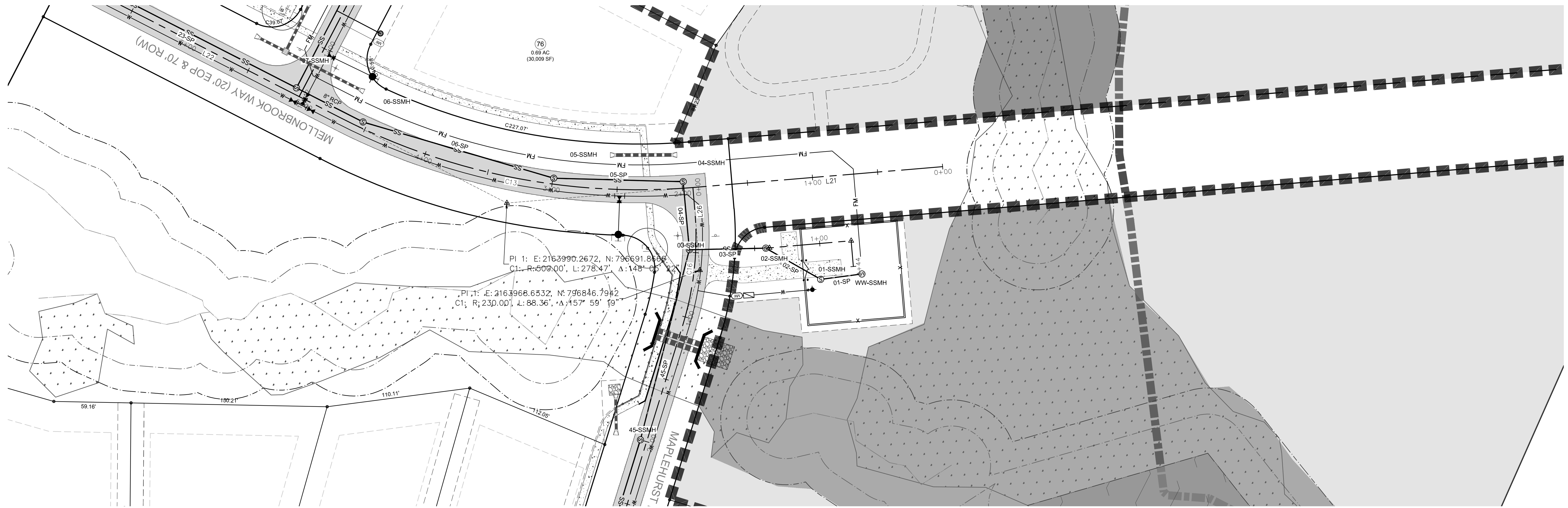
LOT 84 / 85 - PROFILE
HOR. SCALE: 1"=40' VER. SCALE: 1"=4'
STA: 0+00 - 3+00

SITE PERMITTING APPROVAL
 CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

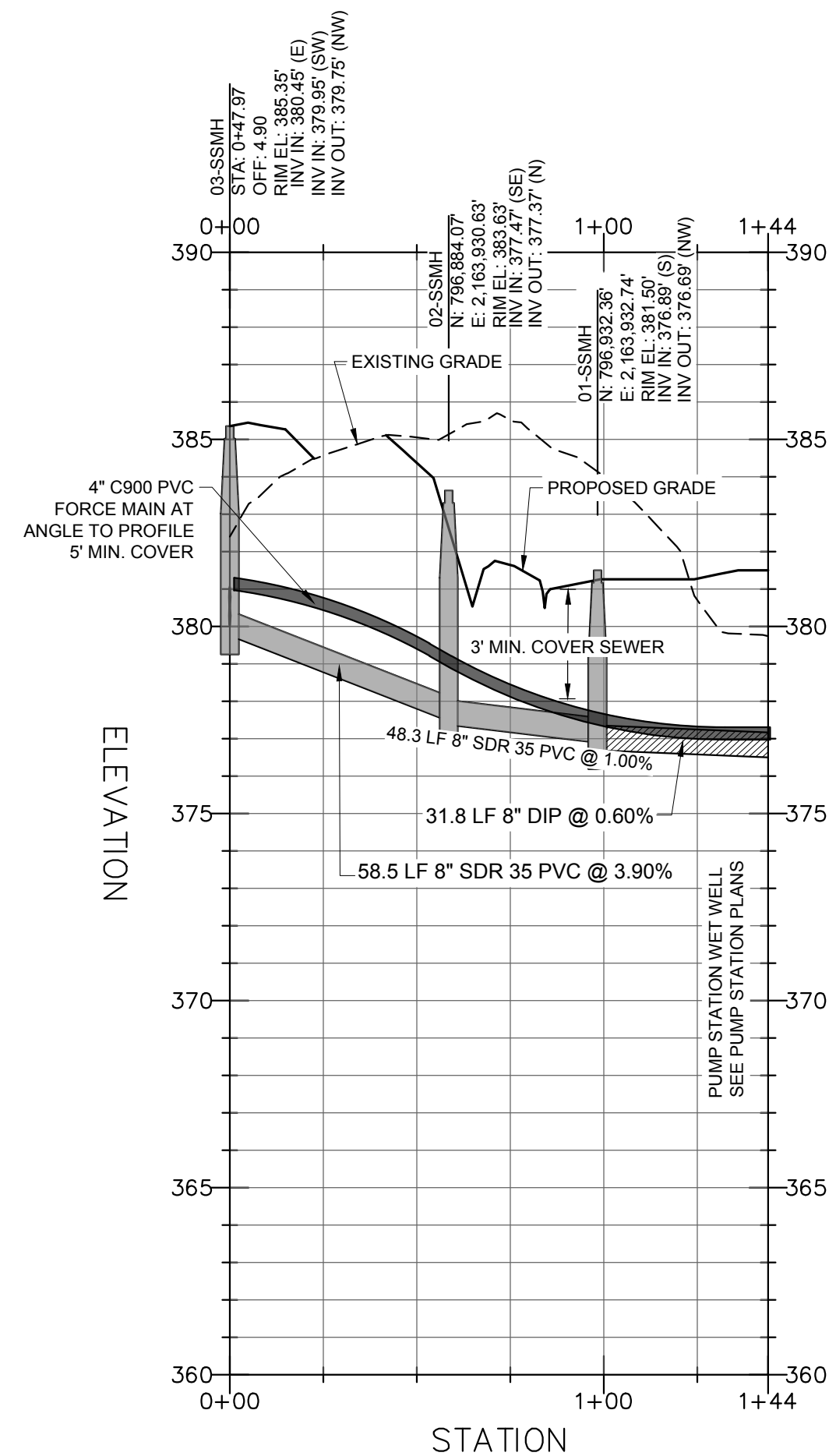
Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval _____
 Raleigh Water Review Officer

REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
02	CONSTRUCTION DOCUMENTS 2ND SUBMITTAL	08/14/2020
01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020
	REVISIONS	



PUMP STATION PLAN
SCALE: 1"=40'
STA: 0+00 - 1+44



PUMP STATION - PROFILE
HOR. SCALE: 1"=40' VER. SCALE: 1"=4'
STA: 0+00 - 1+44

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REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
02	CONSTRUCTION DOCUMENTS 2ND SUBMITTAL	08/14/2020
01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020

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 Raleigh Water Review Officer _____



Bateman Civil Survey Company
 Engineers • Surveyors • Planners
 2524 Relliance Avenue, Apex, North Carolina 27539
 Phone: 919.577.1080 Fax: 919.577.1081
 NCBELS FIRW No. C-2378



CHANDLER'S RIDGE
CONSTRUCTION DOCUMENTS
CONSERVATION SUBDIVISION
 410 W. YOUNG ST.
 ROLESVILLE, NC
 WAKE COUNTY

PUMP STATION
PLAN & PROFILE

Project Engineer:	TSS
Designed By:	TEP
Drawn By:	TEP
Checked By:	TSS
Scale:	1" = 40'
Date:	09/08/2020
Project Number:	P170347

SHEET
C715



Bateman Civil Survey Company
 Engineers • Surveyors • Planners
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 Phone: 919.577.1080 Fax: 919.577.1081
 NCBSLS FRM No. C-2378

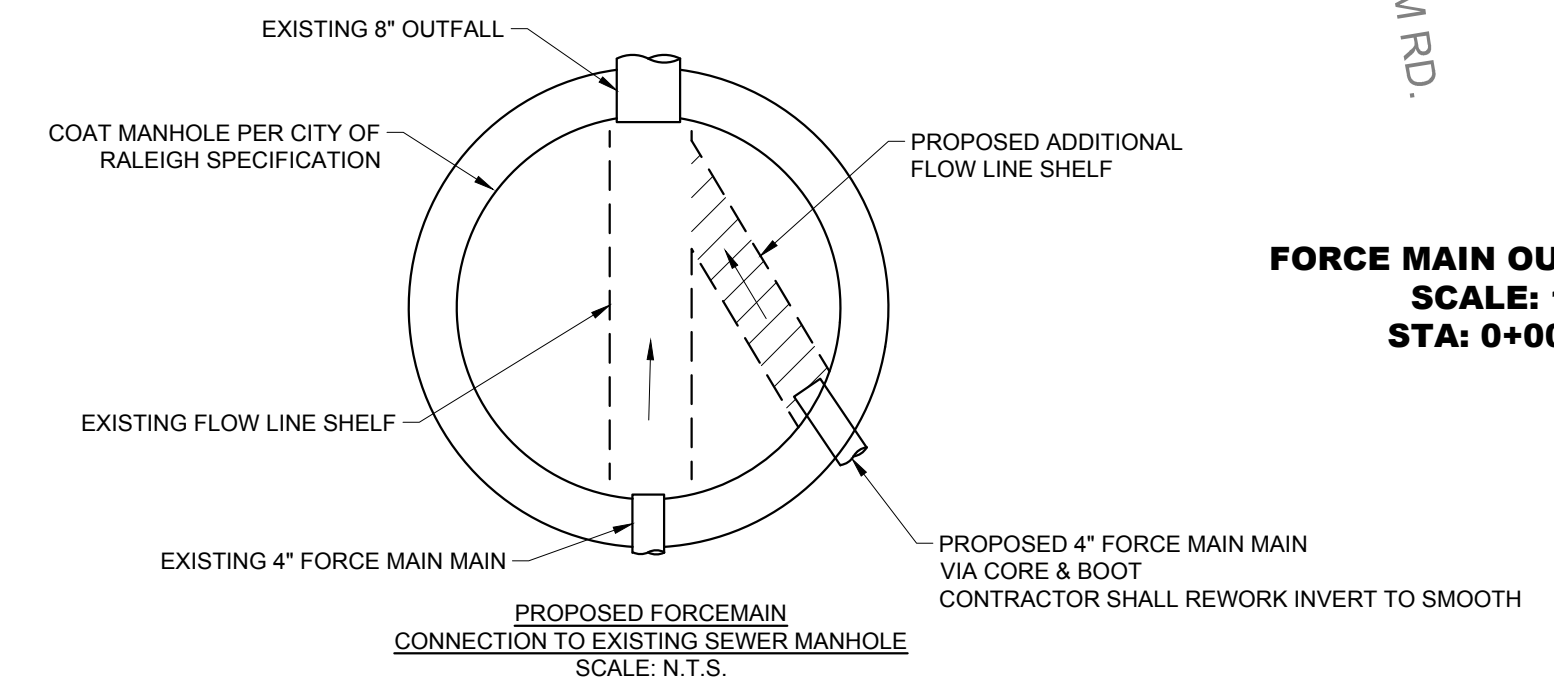
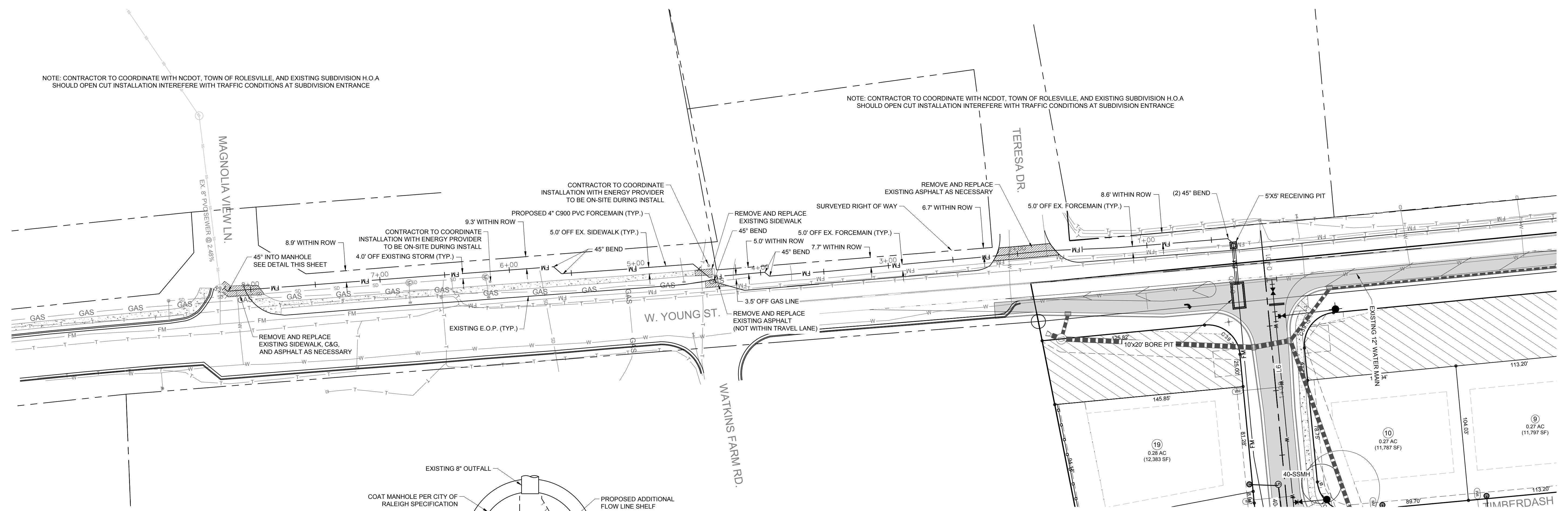


**CHANDLER'S RIDGE
 CONSTRUCTION DOCUMENTS
 CONSERVATION SUBDIVISION**

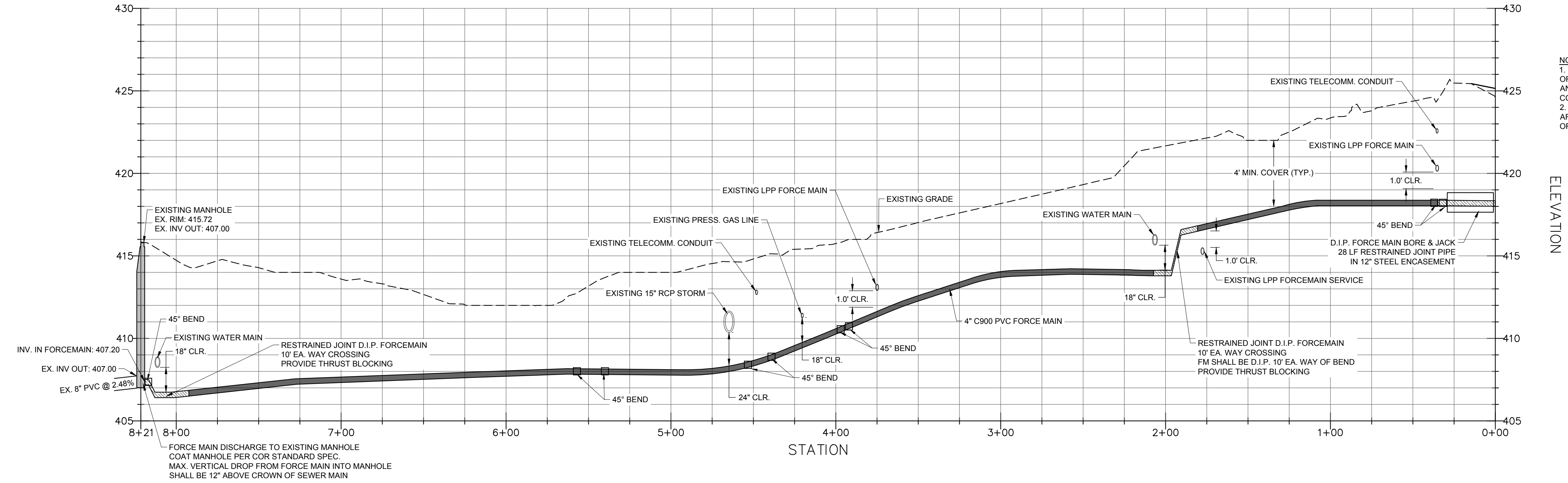
**FORCE MAIN OUTFALL
 PLAN & PROFILE**

Project Engineer: TSS
 Designed By: TEP
 Drawn By: TEP
 Checked By: TSS
 Scale: 1" = 40'
 Date: 09/08/2020
 Project Number: P170347

SHEET
C719



FORCE MAIN OUTFALL - PLAN
 SCALE: 1"=40'
 STA: 0+00 - 8+10



NOTES:
 1. PROVIDE POWER POLE SUPPORT WHEN OPEN TRENCH IS WITHIN 3' OF POLE OR GUY WIRES AND WHEN OWNER DEEMS NECESSARY AND/OR CONDITIONS WARRANT. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH POWER UTILITY.
 2. WHERE APPLICABLE, CONTRACTOR TO REMOVE AND REPLACE AFFECTED EXISTING STORM DRAINAGE AND/OR STRUCTURES TO ORIGINAL INVERT ELEVATIONS AND WITH LIKE MATERIALS.

FORCE MAIN OUTFALL - PROFILE
 HOR. SCALE: 1"=40' VER. SCALE: 1"=4'
 STA: 0+00 - 8+21

SITE PERMITTING APPROVAL
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City of Raleigh Development Approval
 Raleigh Water Review Officer

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REV	DESCRIPTION	DATE
03	CONSTRUCTION DOCUMENTS 3RD SUBMITTAL	09/08/2020
02	CONSTRUCTION DOCUMENTS 2ND SUBMITTAL	08/14/2020
01	CONSTRUCTION DOCUMENTS 1ST SUBMITTAL	06/19/2020
REV	DESCRIPTION	DATE
	REVISIONS	