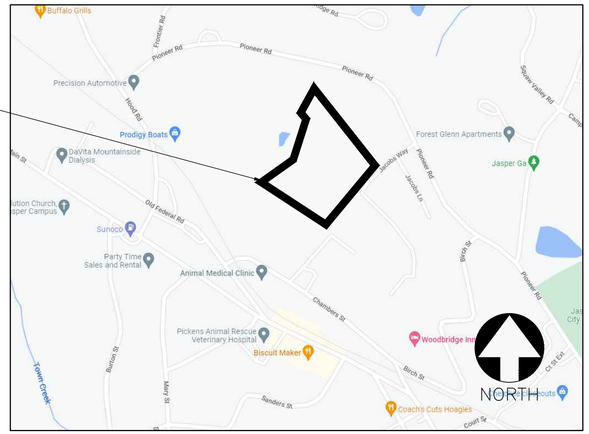
CONSTRUCTION PLANS FOR
CHAMBERS STREET APARTMENTS
CHAMBERS STREET, CITY OF JASPER, PICKENS COUNTY GA
LL 306 12TH DISTRICT, PICKENS CO.

PROJECT LOCATION



VICINITY MAP
N.T.S.

A. APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY CITY OF JASPER OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS.IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONTACT THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY WETLAND THATIS DISTURBED.
B. APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY CITY OF JASPER OF ANY LAND DISTURBING ACTIVITIES THAT MAY IMPACT ANY ENDANGERED SPECIES. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONTACT THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY DISTURBANCE THAT MAY THIS EFFECT.
C. ON-SITE DISPOSAL OR BURY PITS ARE NOT PERMITTED WITHIN PICKENS COUNTY.
D. ALL OTHER NOTES, DETAILS AND SYMBOLS AS REQUIRED BY GEORGIA SOIL AND WATER CONSERVATION COMMISSION (THE GREEN BOOK); GEORGIA STORMWATER MANAGEMENT MANUAL (THE BLUE BOOK); AND ALL OTHER NOTATIONS AS MAY BE REQUIRED BY THE CITY OF JASPER ENGINEERING DEPARTMENT.
E. TEMPORARY GRASSING OR MULCHING IS REQUIRED EVERY (14) FOURTEEN DAYS. PER THE CITY OF JASPER COUNTY SOIL EROSION, SEDIMENTATION AND POLLUTION CONTROL ORDINANCE, "ALL AREAS OF ERODIBLE EARTH MATERIAL SHALL BE EXPOSED NO LONGER THAN ONE WEEK BEFORE THE AREA IS STABILIZED WITH GRASS, STRAW, MULCH AND SEED OR A COMBINATION OF THESE. THE STABILIZATION OF NEW EXPOSED AREAS SHALL OCCUR WEEKLY."
F. RETAINING WALL DESIGN SHALL BE CERTIFIED BY PROFESSIONAL ENGINEER CURRENTLY REGISTERED IN STATE OF GEORGIA. THIS DESIGN MUST BE SUBMITTED WITH THE CONSTRUCTION PLANS. INSPECTION AND CERTIFICATION BY SAID DESIGN PROFESSIONAL IS REQUIRED. CLEARING AND GRADING FOR RETAINING WALLS, FOOTINGS AND GEO-GRID SYSTEMS CANNOT ENCROACH INTO BUFFER OR ROW AREAS. THE RETAINING WALL PLANS MUST BE PART OF EVERY SUBMITTAL AND INCLUDED IN THE FINAL APPROVED PLAN SET. ANY FILL MATERIAL SUPPORTING STRUCTURAL LOADS SHALL BE ENGINEERED WITH PROPER DOCUMENTATION INCLUDING GEORGIA REGISTERED P.E. STAMP. SUBMIT DOCUMENTATION TO THE CITY OF JASPER BUILDING DEPARTMENT PRIOR TO FOUNDATION INSPECTION.
G. ANY FILL MATERIAL SUPPORTING STRUCTURAL LOADS SHALL BE ENGINEERED WITH PROPER DOCUMENTATION INCLUDING GEORGIA REGISTERED P.E. STAMP. SUBMIT DOCUMENTATION TO THE CITY OF JASPER BUILDING DEPARTMENT PRIOR TO FOUNDATION INSPECTION.
H. ALL QUALITY CONTROL TESTING WHICH IS A PART OF ROADWAY CONSTRUCTION WILL BE PERFORMED BY A REPUTABLE PROFESSIONAL GEO-TECHNICAL AND TESTING ENGINEERING COMPANY THAT WILL BE EMPLOYED BY THE DEVELOPER AND ALL ASSOCIATED COSTS WILL BE PAID BY THE DEVELOPER.
PROVIDE A COPY OF THE DEVELOPER'S CONTRACT OR A LETTER OF COMMITMENT FROM A PROFESSIONAL GEO-TECHNICAL ENGINEER CURRENTLY REGISTERED IN THE STATE OF GEORGIA.

ALL UTILITIES TO BE UNDERGROUND

SANITARY SEWER: CITY OF JASPER
WATER:CITY OF JASPER
POWER: GEORGIA POWER
CABLE/TELEPHONE: COMCAST: 770-559-2023
GAS: ATLANTA GAS LIGHT 678-878-5013

GPS LOCATION: 34.47422, -84.43320

"I, SANJEEV Y. IRKAL P.E. CERTIFY THAT I HAVE OR MY DESIGNEE HAS VISITED THE SITE PRIOR TO CREATION OF THE PLAN IN ACCORDANCE WITH RULES & REGULATIONS ESTABLISHED BY THE BOARD."

SANJEEV Y. IRKAL P.E. 03-17-26

INDEX TO DRAWINGS

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C1.01	COVER SHEET
C2.01	EXISTING CONDITIONS
C3.01	DEMOLITION PLAN
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C5.01-C5.05	GRADING PLAN
C6.01	UTILITY PLAN
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C11.01-C11.02	EROSION CONTROL DETAILS
C12.01-C12.02	TREE PRESERVATION/UNDER DESIGN
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C13.02-C13.03	STORM PROFILES & CALCULATIONS
C14.01-C14.02	SEWER PROFILES
C15.01-15.04	CONSTRUCTION DETAILS

ZONING: R-3
PARCEL ID: JA07-034-001
JA07-034

TOTAL ACREAGE: 7.68
DISTURBED ACREAGE: 6.67
R-3 MULTIFAMILY: 3,500SF PER UNIT.
7.68AC/3,5090SF=12.44/AC OR 95.58
DU's ALLOWED.
PARKING REQUIREMENTS
2 SPACES PER UNIT

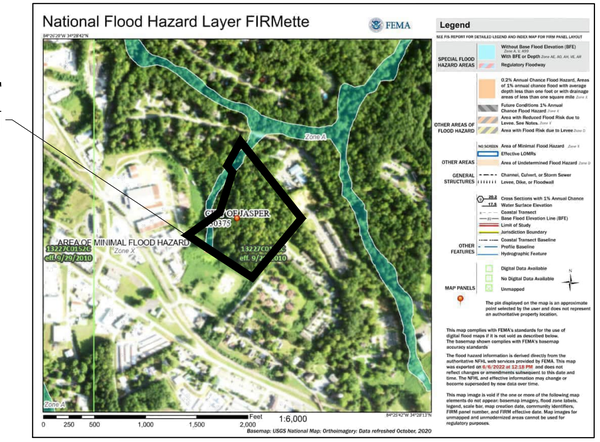
90 UNITS X 2 = 180 SPACES REQUIRED

209 PROVIDED

SETBACKS:
FRONT FACE TO BACK FACE =60'
BACK FACE TO BACK FACE =60'
FRONT FACE TO BACK FACE =60'
SIDE FACE TO SIDE FACE =20'
SIDE FACE TO FRONT FACE =40'

HEIGHT OF BUILDING =40'

PROJECT LOCATION



FEMA FLOOD MAP
N.T.S.

FLOODPLAIN NOTE:

TERRABUILD USA, INC. HAS EXAMINED THE NATIONAL FLOOD PROGRAM (NFIP) FLOOD INSURANCE RATE MAP (FIRM) AND IT IS OUR OPINION THAT THE REFERENCED PROPERTY IS LOCATED IN ZONE(S) "X" AS SHOWN ON F.I.R.M. COMMUNITY PANEL NUMBER 13057C-0178E, DATED SEPTEMBER 29, 2010 CITY OF JASPER, GEORGIA.

ZONE X: AREA OF MINIMAL FLOOD HAZARD.

ZONE X(UNSHADED): AREAS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD THE FLOOD LINE SHOWN HEREON WAS GRAPHICALLY PLOTTED FROM THE ABOVE REFERENCED FLOOD MAP IS APPROXIMATE.

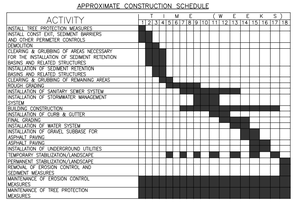
NOTE THAT THE SHADED "PROJECT LOCATION" IS CONSIDERED ZONE X

STATE WATERS NOTE:
ALL WETLANDS OR STATE WATERS ON OR WITHIN 200 FEET OF THIS PROJECT HAVE BEEN DELINEATED

THERE ARE NO WETLANDS LOCATED ON THIS PORTION OF THE SITE.

THE DESIGN PROFESSIONAL, WHOSE SEAL APPEARS HEREON, CERTIFIES THE FOLLOWING: 1)THE NATIONAL WETLAND INVENTORY MAPS HAVE BEEN CONSULTED; AND, 2) THE APPROPRIATE PLAN SHEET DOES NOT INDICATE AREAS OF UNITED STATES ARMY CORPS OF ENGINEERS JURISDICTIONAL WETLANDS AS SHOWN ON THE MAPS/ AND, 3) IF WETLANDS ARE INDICATED, THE LAND OWNER OR DEVELOPER HAS BEEN ADVISED THAT LAND DISTURBANCE OF PROTECTED WETLANDS SHALL NO OCCUR UNLESS THE APPROPRIATE WETLANDS ALTERATION PERMIT HAS BEEN OBTAINED.

APPROXIMATE CONSTRUCTION SCHEDULE



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PROJECT TEAM CONTACT INFORMATION:

OWNER/DEVELOPER:
CAPITOL COMMUNITIES
116 LOCUST AVE SUITE F
COOKEVILLE, TN. 38501

CIVIL ENGINEER:
TERRABUILD, USA, INC.
P.O. BOX 601
LILBURN, GA 30048
(770)900-7619
CONTACT: JACK HAMILTON
JHAMILTON@TERRABUILDUSA.COM

24-HOUR CONTACT
CONTACT: TRACE COPELAND
TCOPELAND@TROUTLANDCO.COM
404-488-2084

CLIENT

CAPITAL COMMUNITIES

116 LOCUST AVENUE, SUITE F
COOKEVILLE, TENNESSEE
38501

PROJECT

CHAMBERS STREET APARTMENTS
LL 271, 306
12th DISTRICT, 2nd SECTION

TerraBuild PROJECT NO. E-22005

TerraBuild USA, INC.
P.O. BOX 601 LILBURN,
GEORGIA 30048
Office: 770.900.7619
www.TerraBuildUSA.com

SEAL

GEORGIA REGISTERED No. 37248 PROFESSIONAL ENGINEER SANJEEV Y. IRKAL
03-17-26

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DESIGNED BY JTH
DRAWN BY JTH
CHECKED BY SYI
APPROVED BY SYI
DATE 08-26-2022

REVISIONS

1 09-06-22	CITY COMMENTS	JTH
2 05-26-23	CITY COMMENTS	JTH
3 03-29-24	CITY COMMENTS	JTH
4 10-08-24	GWSCC COMMENTS	JTH
5 03-24-25	CITY COMMENTS	JTH
6 2-03-26	CITY COMMENTS	JTH
7 3-17-26	CITY COMMENTS	JTH

DRAWING TITLE

COVER SHEET

DRAWING NUMBER

C1.01

BUILD o MANAGE o TerraBuild USA, Inc.
ENVISION o PLAN o DESIGN

NOTES:

1. EXISTING CONDITIONS TAKEN FROM A SURVEY BY GEORGIA PREMIER LAND SERVICES, INC. DATED 02-15-2024, AND SUPPLEMENTED BY FIELD OBSERVATIONS BY TERRABUILD USA, INC. TERRABUILD USA, INC. DOES NOT WARRANT THE ACCURACY OR COMPLETENESS OF EXISTING CONDITIONS INFORMATION SHOWN HEREIN.

2. UTILITIES AND OTHER FEATURES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS OR ARE AT LOCATIONS AND ELEVATIONS DIFFERENT FROM THAT SHOWN ON THESE DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT THE SITE AND SURROUNDING AREAS, THAT WILL AFFECT OR BE AFFECTED BY THE PROPOSED CONSTRUCTION, PRIOR TO CONSTRUCTION AND NOTIFY TERRABUILD USA, INC. OF ANY DISCREPANCIES BETWEEN INFORMATION SHOWN HEREIN AND WHAT EXISTS IN THE FIELD. IF DISCREPANCIES ARE FOUND, CONTRACTOR SHALL NOT BEGIN WORK ON AFFECTED IMPROVEMENTS UNTIL ALL DISCREPANCIES ARE RESOLVED.

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NORTH

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

100 YR STA 1155.696 BFE= 1428.07
100 YR STA 978.5165 BFE= 1417.74
100 YR STA 797.9754 BFE= 1403.41
100 YR STA 664.3845 BFE= 1397.52
100 YR STA 546.306 BFE= 1393.25
100 YR HW STA 320.8246 EL= 1381.3
100 YR STA 198.4176 BFE= 1375.54
100 YR STA BFE=

N/F
MULLINAX TRUSS COMPANY, INC.
DB. 286/PG. 92
PB. CC/PG. 247

N/F
CAJUN IN GA, LLC
DB. 1199/PG. 490
DB. 1272/PG. 347
PB. 2020/PG. 163
TAX PARCEL NO. JA08 001

N/F
SHARRA M. BOONE et al.
DB. 996/PG. 53
PB. S/PG. 54

N/F
EDWARD BOONE et al.
DB. 174/PG. 121
PB. S/PG. 159

N/F
SUNRISE VILLAGE CARE LLC
DB. 1088/PG. 427
PB. G/PG. 201

N/F
PICKENS COUNTY
"NO DEED FOUND"

N/F
JOSEPH TRUNGALE
DB. 1231/PG. 66
PB. TT/PG. 89

N/F
RONDA G. MOSLEY, et al.
DB. 1202/PG. 110
PB DD/PG. 65

N/F
CITY OF JASPER
PB. DD/PG. 65

TRACT 1
5.559 ACRES

TRACT 2
7.688 ACRES

TRACT 3
OWNERSHIP IN QUESTION
0.084 ACRES
DB. 962/PG. 264

TRACT 4
1.239 ACRES
TO BE COMBINED WITH TAX #JA08 001

MOSLEY HEIGHTS
50' RIGHT OF WAY
A.K.A. DAY STREET
A.K.A. NEW GROVE STREET
DB. 48/PG. 90
PB. H/PG. 57

JACOBS WAY
50' R/W

CHAMBERS STREET
APPARENT 50' RIGHT OF WAY

APPROXIMATE
20' INGRESS/EGRESS EASEMENT
REFERENCE # 1

APPROX. 100 YEAR ZONE 'A' FLOOD HAZARD AREA

APPROX. 500 YEAR ZONE 'X' FLOOD HAZARD AREA

REMNANTS OF BUILDING PAD

APPROX. CONC. AREA

ORIGINAL PROP. LINE (REF #4)

CURRENT PROP. LINE AS SHOWN ON TAX MAP

APPROX. LAND LOT LINE

BENCHMARK
TOP OF FH
ELEV-1463.07

BENCHMARK
TOP OF FH
ELEV-1490.63

BENCHMARK
TOP OF FH
ELEV-1450.41

SEWER ACCESS BOX
TOP-1461.26
IN-1457.04
OUT-1456.89
TOP OF TABLE-1457.18

MH
TOP-1474.00
IN-1471.17
OUT-1469.95
TOP OF TABLE-1470.12

MH
TOP-1488.93
IN-1483.99
OUT-1481.83
TOP OF TABLE-1482.19

MH
TOP-1412.90
IN-1399.07
OUT-1398.01
TOP OF TABLE-1399.61

MH
TOP-1385.69
IN-1380.71
OUT-1380.08
TOP OF TABLE-1380.69

P.O.B.

1/2"RBF

1/2"OTP

3/4"OTP

PKS

PI.

PT.

N30°50'53"W 87.42'
N27°37'02"E 213.08'
N34°48'03"W 82.50'
N20°25'11"E 100.17'
N54°38'06"E 99.55'
N54°38'06"E 327.63'
N17°41'23"E 819.94'
N29°03'04"E 203.83'
N39°32'01"W 61.55'
S38°18'43"E 52.70'
S38°18'43"E
N61°02'44"W 28.32'
N55°53'19"W 29.00'
S40°01'57"W 102.73'
S40°01'57"W 285.35'
S38°49'45"W 564.35'
S39°47'30"W 208.15'
N40°33'25"E 43.91'
S38°25'02"E 82.37'
N70°08'54"W 175.59'
N19°19'12"E 582.87'
N19°19'12"E 668.08'

AXLE FOUND

6" DIP

6" PVC WATER LINE

6" PVC

8" PVC

6" APPARENT GAV

POWER BOX

GRAVEL AREA

EDGE OF GRAVEL

EDGE OF PAVEMENT

CURB

R/W

APPARENT CLEAN OUT

END ROAD

CONTINUE TO FIELD VERIFY EXISTING SIZE OF EXISTING WATER LINE

1458.18 1458.34 1457.22 1457.67 1457.50 1457.20 1457.60 1454.66 1455.84 1455.73 1455.59 1457.20 1457.44 1457.38 1462.63 1462.69 1462.66 1462.58 1462.43 1462.42 1462.47 1462.44 1462.50 1461.62 1462.52 1462.48 1462.49 1462.52 1462.48 1461.70 1462.48 1462.49 1462.53 1462.56 1462.55 1470 1460 1465 1455 1450 1445 1440 1435 1430 1425 1420 1410 1400

(27) (30) (306) 1640 1640

CLIENT

CAPITAL COMMUNITIES

116 LOCUST AVENUE, SUITE F
COOKEVILLE, TENNESSEE
38501

PROJECT

CHAMBERS STREET APARTMENTS

LL 271, 306
12th DISTRICT, 2nd SECTION

TerraBuild PROJECT NO. E-22005

TerraBuild USA, INC.
P.O. BOX 601 LILBURN, GEORGIA 30048
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SEAL

GEORGIA REGISTERED No. 37248 PROFESSIONAL ENGINEER SANJEEV N. YIRAL

03-17-26

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DESIGNED BY JTH

DRAWN BY JTH

CHECKED BY SYI

APPROVED BY SYI

DATE 08-26-2022

REVISIONS

1	09-06-22 CITY COMMENTS	JTH
2	05-07-25 CITY COMMENTS	JTH
3	03-28-24 CITY COMMENTS	JTH
4	05-24-25 CITY COMMENTS	JTH
5	2-03-26 CITY COMMENTS	JTH
6	3-17-26 CITY COMMENTS	JTH

DRAWING TITLE

EXISTING CONDITIONS

DRAWING NUMBER

C2.01

BUILD ○ MANAGE ○ PLAN ○ DESIGN ○ ENVISION ○ TerraBuild USA, Inc.

NORTH

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

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TRACT 2
7.688 ACRES

TRACT 3
OWNERSHIP IN QUESTION
0.084 ACRES
DB. 962/PG. 264

TRACT 4
1.239 ACRES
TO BE COMBINED WITH TAX #JA08 001

APPROX. 100 YEAR ZONE 'A' FLOOD HAZARD AREA

APPROX. 500 YEAR ZONE 'A' FLOOD HAZARD AREA

APPROXIMATE 20' INGRESS/EGRESS EASEMENT REFERENCE # 1

APPROX. CONC. AREA

REMNANTS OF BUILDING PAD

SOME REMNANTS OF OLD BUILDING TO BE REMOVED FOR NEW ROAD ENTRANCE.

CURB TO BE REMOVED

CURRENT PROP. LINE AS SHOWN ON TAX MAP

ORIGINAL PROP. LINE PER PLAT

APPROX. LAND LOT LINE

APPARENT CLEAN OUT

SEWER ACCESS BOX
TOP-1461.26
IN-1457.04
OUT-1456.89
TOP OF TABLE-1457.18

MH
TOP-1474.00
IN-1471.17
OUT-1469.93
TOP OF TABLE-1470.12

MH
TOP-1488.93
IN-1481.99
OUT-1481.83
TOP OF TABLE-1482.19

MH
TOP-1412.90
IN-1399.07
OUT-1398.91
TOP OF TABLE-1399.61

MH
TOP-1385.69
IN-1380.71
OUT-1380.08
TOP OF TABLE-1380.69

P.O.B.

CLIENT

CAPITAL COMMUNITIES

116 LOCUST AVENUE, SUITE F
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38501

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LL 271, 306
12th DISTRICT, 2nd SECTION

TerraBuild PROJECT NO. E-22005

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SEAL

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03-17-26

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6	3-17-26 CITY COMMENTS	JTH

DRAWING TITLE

DEMOLITION PLAN

DRAWING NUMBER

C3.01

BUILD ○ MANAGE ○ PLAN ○ DESIGN ○ ENVISION ○ TerraBuild USA, Inc.

NORTH

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

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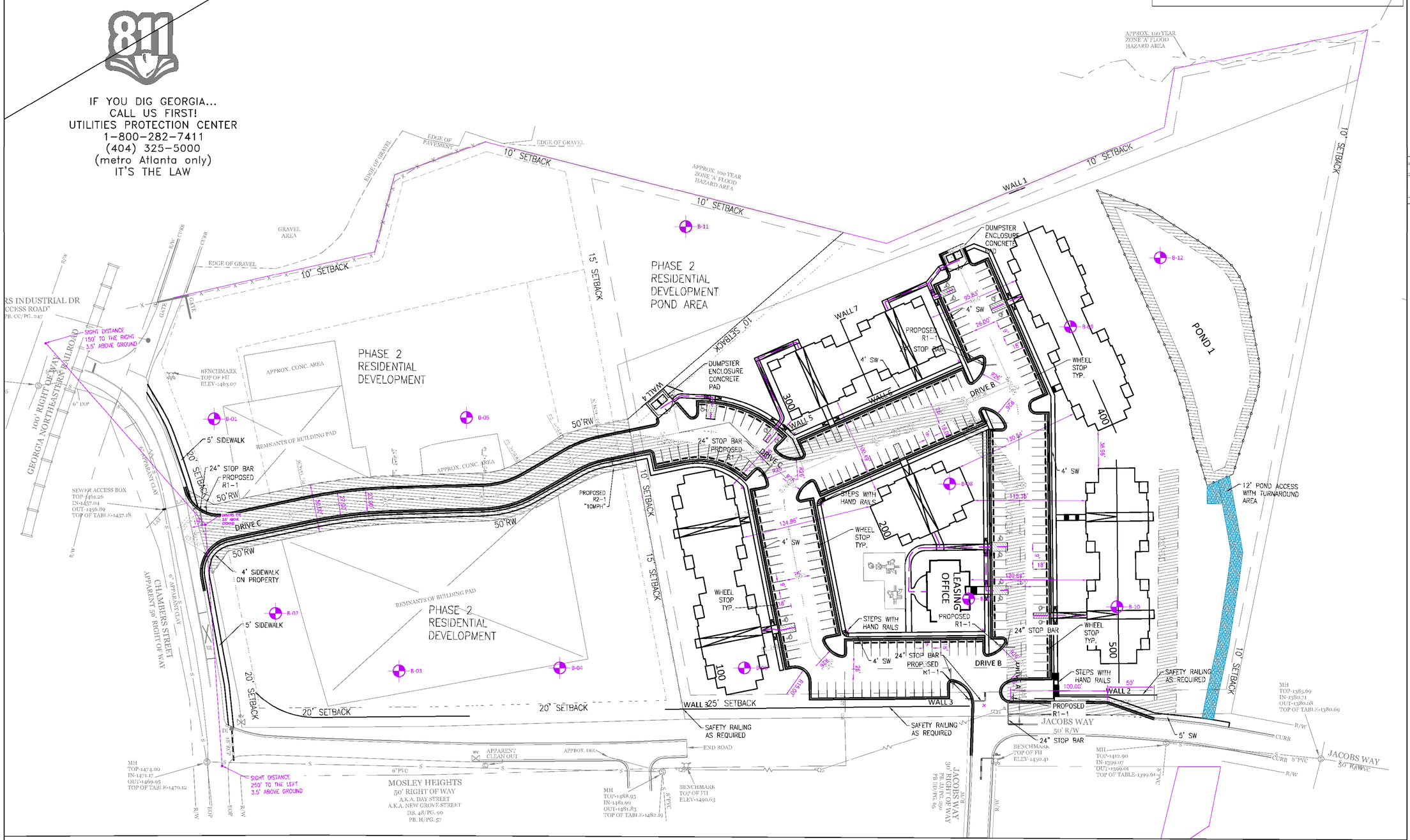
NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS. SEE MEP DRAWINGS FOR LOCATIONS AND SIZES OF WATER AND SANITARY SEWER CONNECTIONS. NOTIFY TERRABUILD OF ANY DISCREPANCIES FOUND.
2. ALL DIMENSIONS ARE TO FACE OF BUILDING OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
3. ALL CONCRETE SHALL BE CLASS C, 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS WITH A MAXIMUM SLUMP OF 4 INCHES UNLESS OTHERWISE NOTED. ALL EXPOSED CONCRETE SHALL HAVE A FINE BROOM FINISH.
4. ALL MATERIALS SHALL BE NEW UNLESS OTHERWISE NOTED.
5. PAVEMENT SHALL BE IN ACCORDANCE WITH GDOT STANDARDS AND SPECIFICATIONS.

NOT TO SCALE

1.5" ASPHALT "E" OR "F"
2" BINDER
6" GAB

ROAD IMPROVEMENTS
PAVEMENT WILL CONSIST OF
6" INCH GAB,
2" BINDER
1.5" ASPHALT "E" OR "F"
PRIME COAT AND TACK COAT AS PER
STANDARD DETAIL 201 & GDOT REQUIREMENTS.



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38501

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12th DISTRICT, 2nd SECTION

TerraBuild PROJECT NO. E-22005

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SEAL

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03-17-26

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DRAWN BY JTH

CHECKED BY SYI

APPROVED BY SYI

DATE 08-26-2022

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8	2-03-26 CITY COMMENTS	JTH
9	3-17-26 CITY COMMENTS	JTH

DRAWING TITLE

OVERALL SITE PLAN

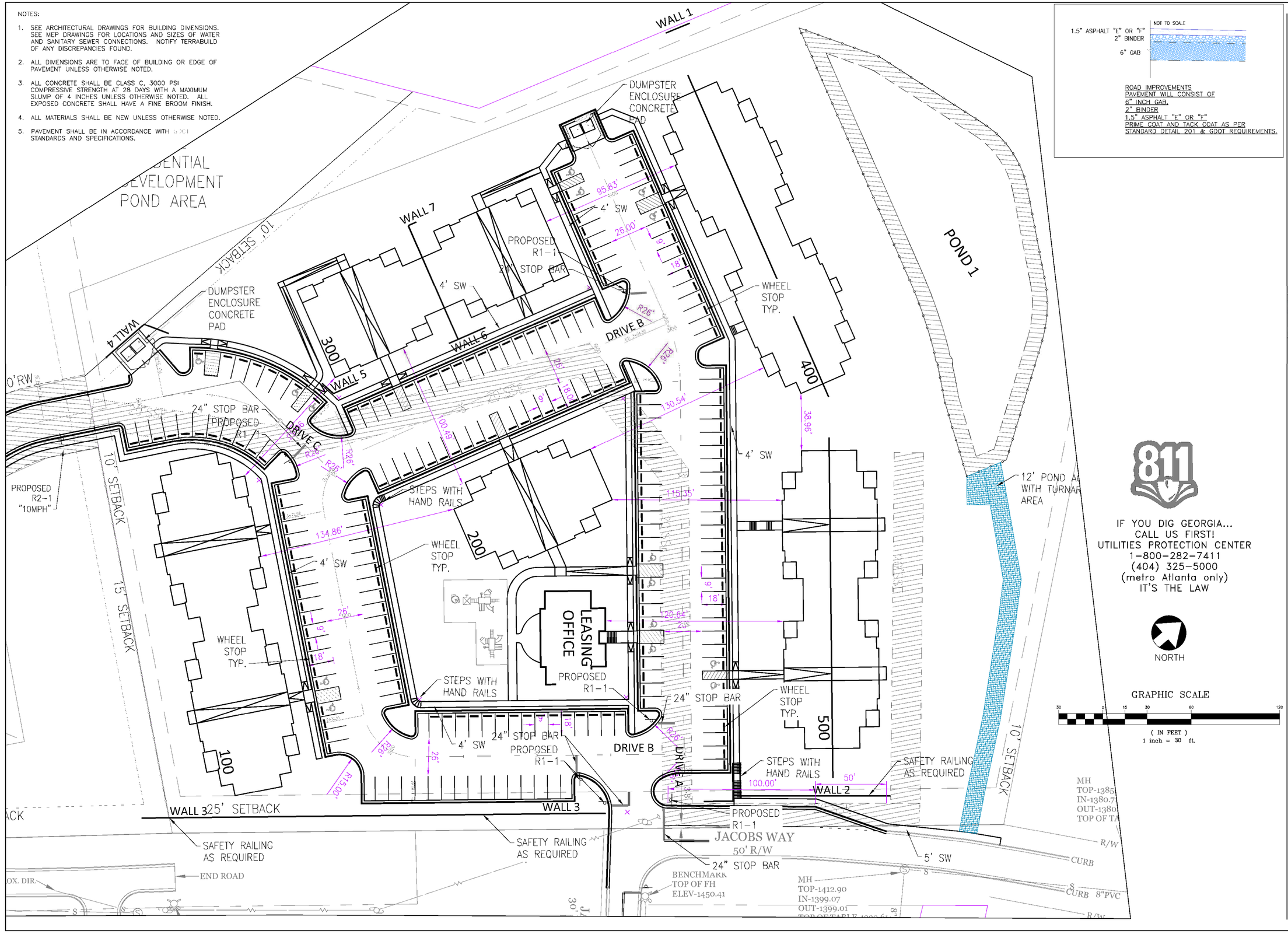
DRAWING NUMBER

C4.00

BUILD ◦ MANAGE ◦ TerraBuild USA, Inc.
ENVISION ◦ PLAN ◦ DESIGN ◦

NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS. SEE MEP DRAWINGS FOR LOCATIONS AND SIZES OF WATER AND SANITARY SEWER CONNECTIONS. NOTIFY TERRABUILD OF ANY DISCREPANCIES FOUND.
2. ALL DIMENSIONS ARE TO FACE OF BUILDING OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
3. ALL CONCRETE SHALL BE CLASS C, 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS WITH A MAXIMUM SLUMP OF 4 INCHES UNLESS OTHERWISE NOTED. ALL EXPOSED CONCRETE SHALL HAVE A FINE BROOM FINISH.
4. ALL MATERIALS SHALL BE NEW UNLESS OTHERWISE NOTED.
5. PAVEMENT SHALL BE IN ACCORDANCE WITH GDOT STANDARDS AND SPECIFICATIONS.



ROAD IMPROVEMENTS
PAVEMENT WILL CONSIST OF
6" INCH GAB,
2" BINDER
1.5" ASPHALT "E" OR "F"
PRIME COAT AND TACK COAT AS PER
STANDARD DETAIL 201 & GDOT REQUIREMENTS.

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GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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CAPITAL COMMUNITIES

116 LOCUST AVENUE, SUITE F
COOKEVILLE, TENNESSEE
38501

PROJECT

CHAMBERS STREET APARTMENTS

LL 271, 306
12th DISTRICT, 2nd SECTION

TerraBuild PROJECT NO. E-22005

TerraBuild USA, INC.
P.O. BOX 601 LILBURN,
GEORGIA 30048
Office: 770.900.7619
www.TerraBuildUSA.com

SEAL

GEORGIA REGISTERED No. 37248 PROFESSIONAL ENGINEER SANJEEV Y IRAL

03-17-26

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DESIGNED BY JTH
DRAWN BY JTH
CHECKED BY SYI
APPROVED BY SYI
DATE 08-26-2022

REVISIONS

1	09-06-22 CITY COMMENTS	JTH
2	05-9-23 CITY COMMENTS	JTH
3	05-26-23 CITY COMMENTS	JTH
4	07-26-23 ENTRANCE CHANGE	JTH
5	03-29-24 CITY COMMENTS	JTH
6	05-24-25 CITY COMMENTS	JTH
7	09-18-25 CITY COMMENTS	JTH
8	2-05-26 CITY COMMENTS	JTH
9	3-17-26 CITY COMMENTS	JTH

DRAWING TITLE

SITE PLAN

DRAWING NUMBER

C4.01

BUILD ○ MANAGE ○ DESIGN ○ PLAN ○ ENVISION ○ TerraBuild USA, Inc.

NOTES:

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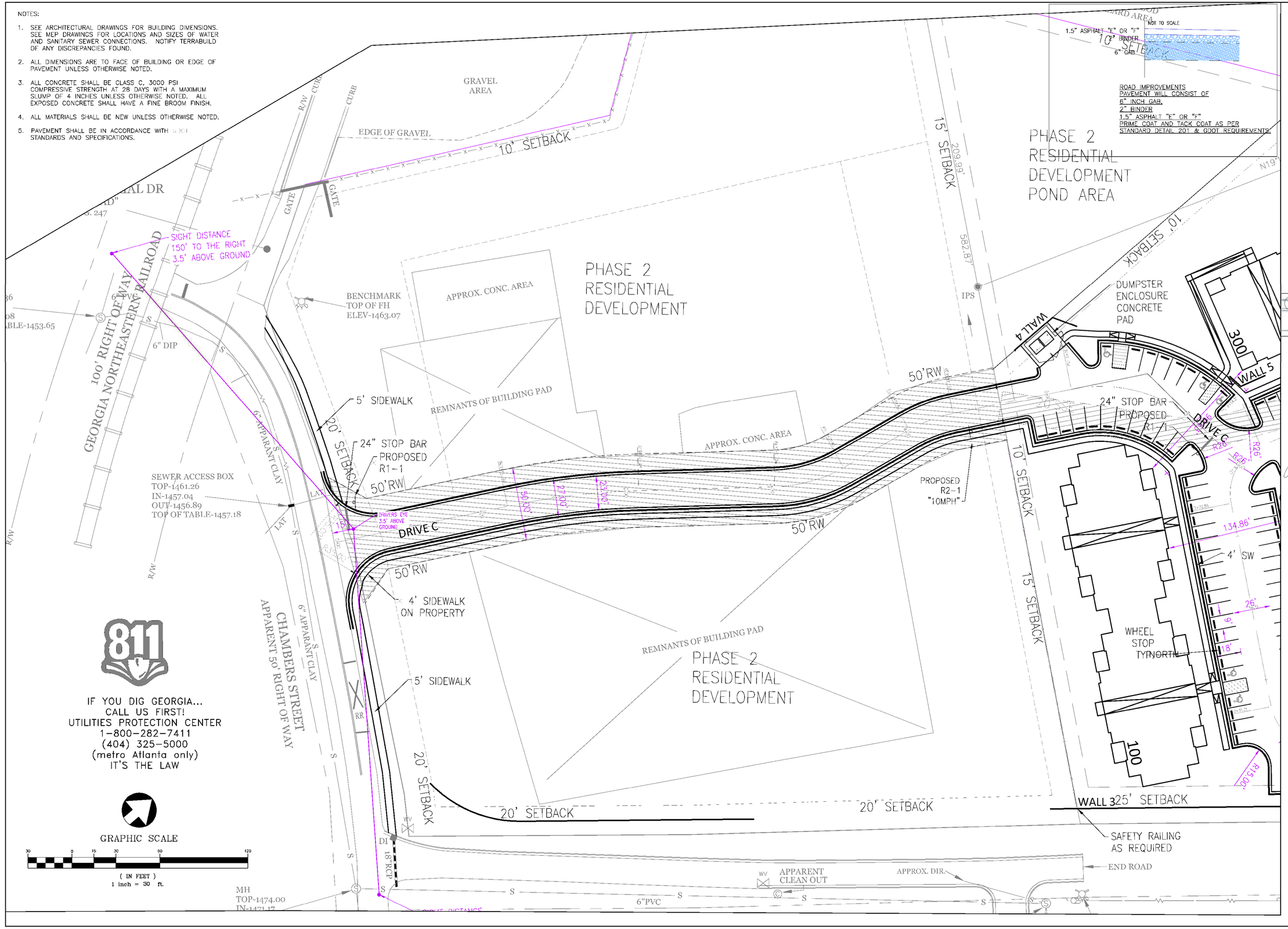

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CAPITAL COMMUNITIES

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COOKEVILLE, TENNESSEE
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PROJECT

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DATE	08-26-2022

REVISIONS

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6	09-18-25 CITY COMMENTS	JTH
7	2-03-26 CITY COMMENTS	JTH
8	3-17-26 CITY COMMENTS	JTH

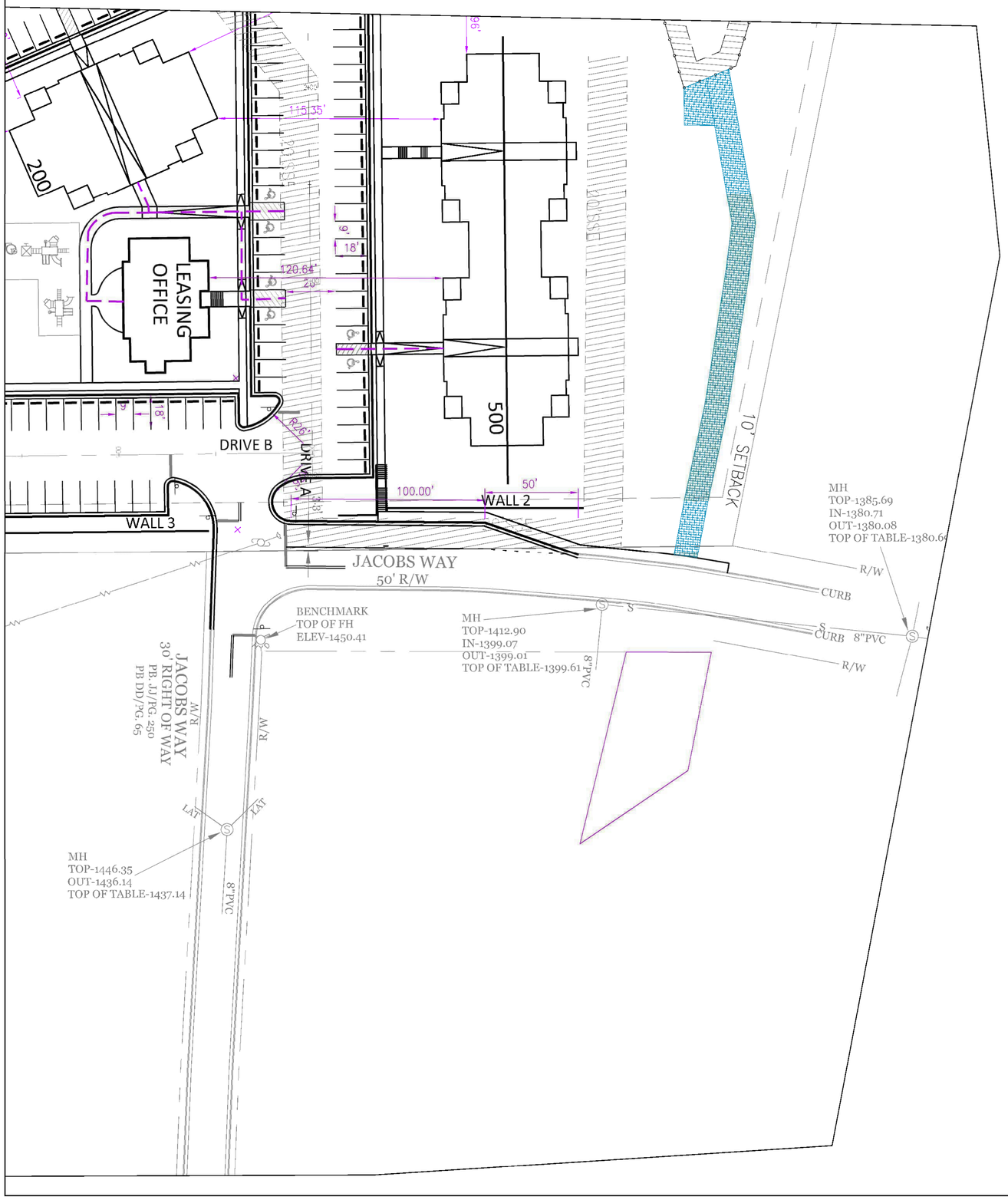
DRAWING TITLE

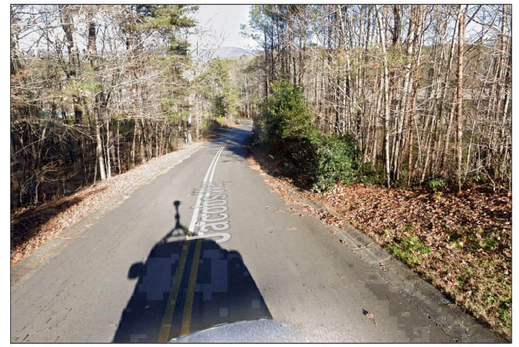
CHAMBERS ENTRANCE PLAN

DRAWING NUMBER

C4.02

BUILD ◦ MANAGE ◦ TerraBuild USA, Inc.
ENVISION ◦ PLAN ◦ DESIGN ◦





JACOBS WAY
LOOKING LEFT



JACOBS WAY
LOOKING RIGHT

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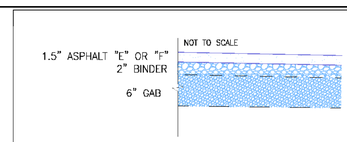
GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.



ROAD IMPROVEMENTS
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2" BINDER
1.5" ASPHALT "E" OR "F"
PRIME COAT AND TACK COAT AS PER
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TerraBuild PROJECT NO. E-22005

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4 07-26-23	ENTRANCE CHANGE	JTH
5 03-29-24	CITY COMMENTS	JTH
6 2-05-25	CITY COMMENTS	JTH
7 3-17-26	CITY COMMENTS	JTH

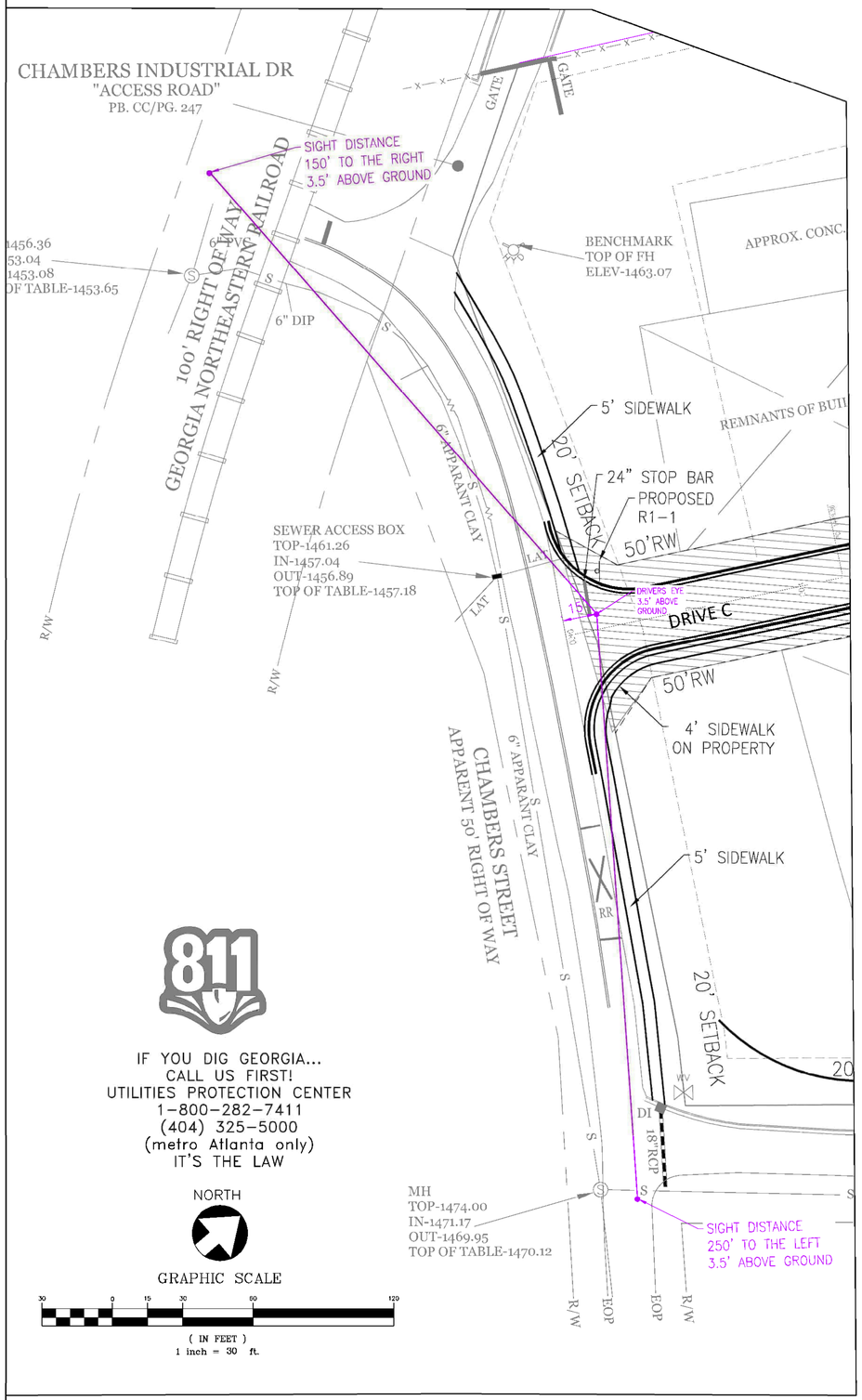
DRAWING TITLE

SITE DISTANCE PLAN

DRAWING NUMBER

C4.03

BUILD ◦ MANAGE ◦ PLAN ◦ DESIGN ◦ ENVISION TerraBuild USA, Inc.

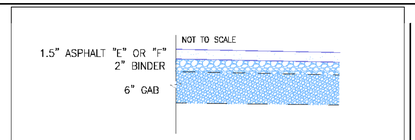




CHAMBERS ST
LOOKING LEFT



CHAMBERS ST
LOOKING RIGHT



ROAD IMPROVEMENTS
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2" BINDER
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7	09-18-25	CITY COMMENTS	JTH
8	2-03-26	CITY COMMENTS	JTH
9	3-17-26	CITY COMMENTS	JTH

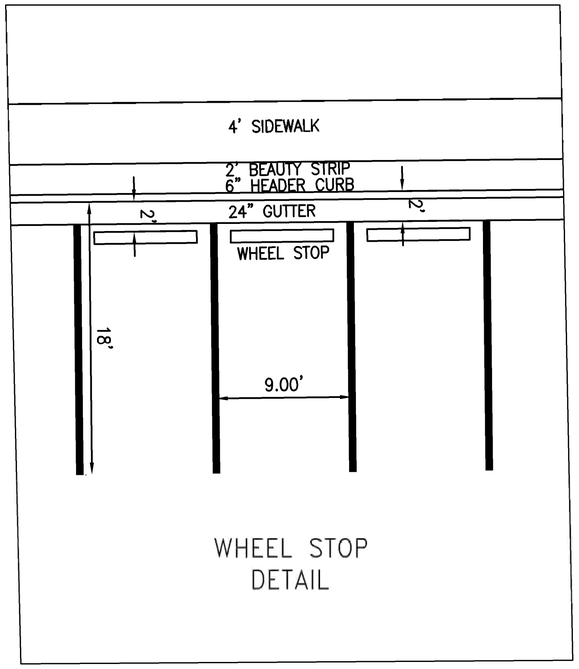
DRAWING TITLE

CHAMBERS ENTRANCE PLAN

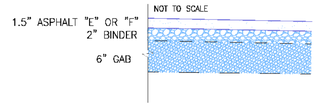
DRAWING NUMBER

C4.04

BUILD ○ MANAGE ○ PLAN ○ DESIGN ○ ENVISION ○ TerraBuild USA, Inc.



WHEEL STOP
DETAIL



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GRAPHIC SCALE

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(IN FEET)
1 inch = 30 ft.

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PROJECT

CHAMBERS STREET APARTMENTS

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12th DISTRICT, 2nd SECTION

TerraBuild PROJECT NO. E-22005

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DRAWN BY JTH

CHECKED BY SYI

APPROVED BY SYI

DATE 08-26-2022

REVISIONS

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3	05-26-23 CITY COMMENTS	JTH
4	07-26-23 ENTRANCE CHANGE	JTH
5	03-29-24 CITY COMMENTS	JTH
6	03-24-25 CITY COMMENTS	JTH
7	2-03-26 CITY COMMENTS	JTH
8	3-17-26 CITY COMMENTS	JTH

DRAWING TITLE

PARKING DETAIL

DRAWING NUMBER

C4.05

BUILD ○ MANAGE ○ TerraBuild USA, Inc.
ENVISION ○ PLAN ○ DESIGN ○

GRADING NOTES:

1. MAINTAIN POSITIVE DRAINAGE AWAY FROM THE BUILDING AT ALL TIMES DURING CONSTRUCTION.
2. MAINTAIN A MINIMUM 4' SHOULDER BEYOND THE EDGE OF PAVEMENT OR BACK OF CURB IN ALL AREAS.
3. MAINTAIN 2% CROSS-SLOPE ON WALKWAYS UNLESS NOTED OTHERWISE.
4. MAXIMUM 2% SLOPE WITHIN HANDICAP PARKING AREAS. MAXIMUM 5% SLOPE IN ALL OTHER PARKING AREAS.
5. CONNECT EXISTING AND PROPOSED DOWNSPOUTS TO UNDERGROUND STORM DRAINAGE SYSTEM. MAINTAIN A MINIMUM OF 1% SLOPE.
6. UNLESS NOTED OTHERWISE, INSTALL ALL STORM DRAIN LINES AT A MINIMUM SLOPE OF 1%.
7. DRAINAGE STRUCTURES SHALL BE PRE-CAST STANDARD STRUCTURES OF THE TYPE INDICATED AND SHALL BE GROUTED TO THE INVERT OF THE LOWEST PIPE TO PREVENT STANDING WATER IN STRUCTURES.
8. PIPE BEDDING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
9. ROOF DRAIN COLLECTOR PIPE SHALL BE SCHEDULE 40 PVC, ADS N-12 HDPE, OR APPROVED EQUAL.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS AS ACCEPTABLE TO THE OWNER AND THE ENGINEER. SEDIMENT ACCUMULATION IN THE STORM DRAIN FROM CONSTRUCTION ACTIVITIES SHALL BE REMOVED IN A MANNER SUCH THAT SEDIMENTS ARE NOT ALLOWED TO LEAVE THE SITE.
11. ALL CAVITIES CREATED BY THE REMOVAL OF EXISTING FACILITIES IN THE AREA OF PROPOSED CONSTRUCTION SHALL BE FILLED AND COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY.
12. THE CONTRACTOR SHALL ESTABLISH ALL TEMPORARY BENCHMARKS TO A TOLERANCE OF NO MORE THAN 0.01' FROM THE ORIGINAL BENCHMARK.
13. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL BOUNDARY EVIDENCE BETWEEN THE OWNER AND ADJACENT PROPERTY OWNERS.
14. THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM AND SANITARY SEWER STRUCTURES, PIPES, AND ALL UTILITIES THAT ARE IN THE DISTURBED AREAS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. NO AFFECTED IMPROVEMENTS SHALL BE CONSTRUCTED UNTIL ALL DISCREPANCIES ARE RESOLVED.
15. ALL PIPES ENTERING STORM STRUCTURES SHALL BE GROUTED WITH NON-SHRINK GROUT TO ASSURE CONNECTIONS AT THE STRUCTURE ARE WATERTIGHT.
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19. FOR STORM STRUCTURE TOP AND INVERT ELEVATIONS AND FOR PIPE INFORMATION, SEE STORM PROFILE DRAWINGS.
20. UNLESS NOTED OTHERWISE, ALIGN STORM GRATES PARALLEL TO NEARBY SURFACE FEATURES.
21. SLOPES SHALL BE NO STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL.
22. ALL FILL MATERIAL TO BE UTILIZED ON THE PROJECT SHALL BE FREE OF ORGANIC OR OTHERWISE DELETERIOUS MATERIALS AND SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698. FILL WITHIN THE BUILDING FOOTPRINT AND EXTENDING TO 10 FEET OUTSIDE THE BUILDING SHALL BE COMPACTED TO 98% OF MAXIMUM DRY DENSITY. ALL EARTHWORK SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
23. ALL PROPOSED GRADES ARE FINISHED GRADE.
24. IT IS THE INTENT OF THE DESIGN TO BALANCE CUT AND FILL ON-SITE.

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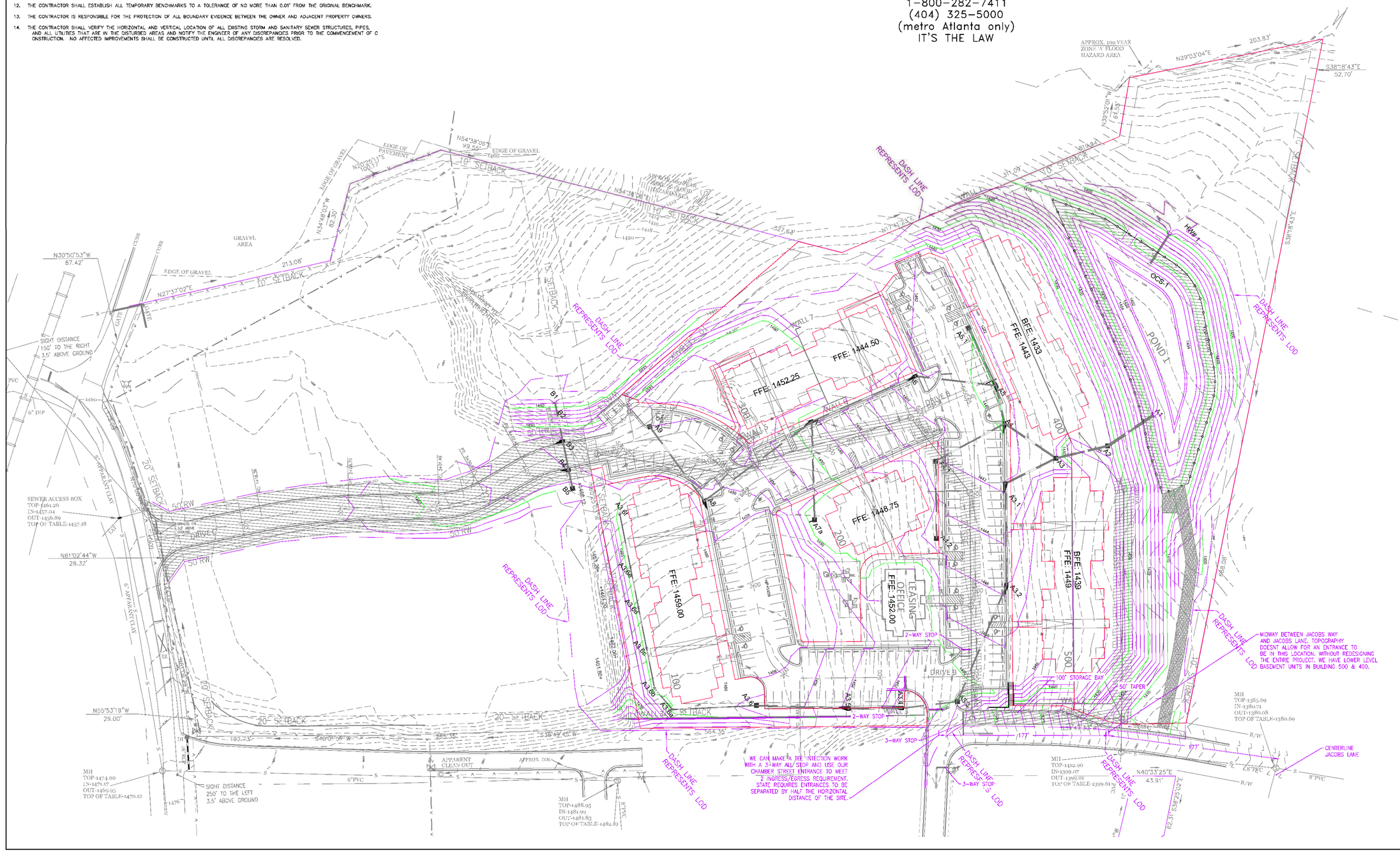
GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.



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PROJECT

CHAMBERS STREET APARTMENTS

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TerraBuild PROJECT NO. E-22005

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DRAWN BY JTH

CHECKED BY SYI

APPROVED BY SYI

DATE 08-26-2022

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2	05-26-23	CITY COMMENTS	JTH
3	03-29-24	CITY COMMENTS	JTH
4	01-06-25	CITY COMMENTS	JTH
5	5-12-25	GSWCC/CITY COMMENTS	JTH
6	09-18-25	CITY COMMENTS	JTH
7	10-27-25	CITY COMMENTS	JTH
8	2-05-26	CITY COMMENTS	JTH
9	3-17-26	CITY COMMENTS	JTH

DRAWING TITLE

ENTRANCE GRADING PLAN

DRAWING NUMBER

C5.00

BUILD ○ MANAGE ○ PLAN ○ DESIGN ○ ENVISION ○ TerraBuild USA, Inc.

GRADING NOTES:

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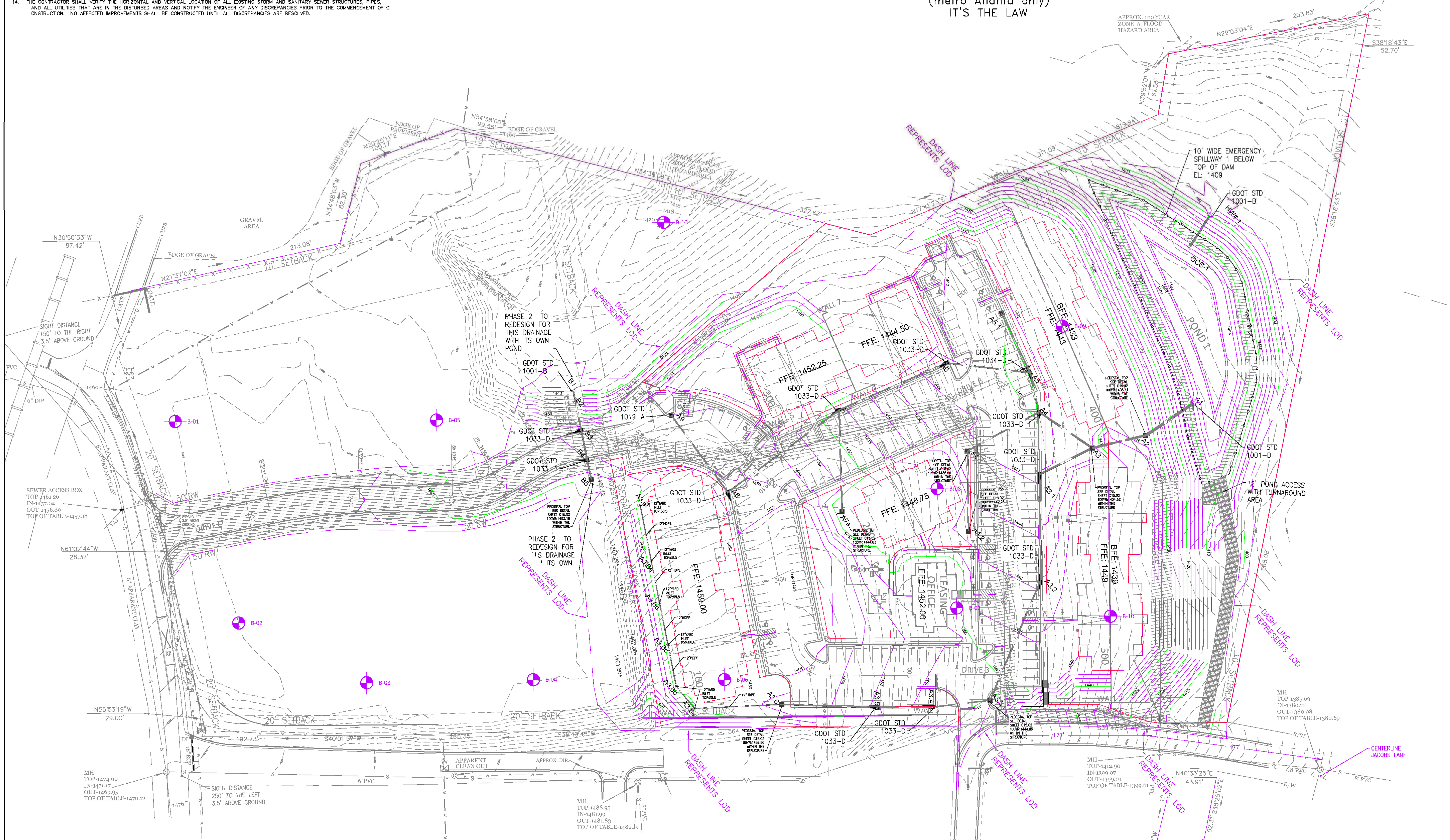

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DRAWN BY JTH

CHECKED BY SYI

APPROVED BY SYI

DATE 08-26-2022

REVISIONS

1	09-06-22	CITY COMMENTS	JTH
2	05-26-23	CITY COMMENTS	JTH
3	03-29-24	CITY COMMENTS	JTH
4	03-24-25	CITY COMMENTS	JTH
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7	10-27-25	CITY COMMENTS	JTH
8	2-03-26	CITY COMMENTS	JTH
9	3-17-26	CITY COMMENTS	JTH

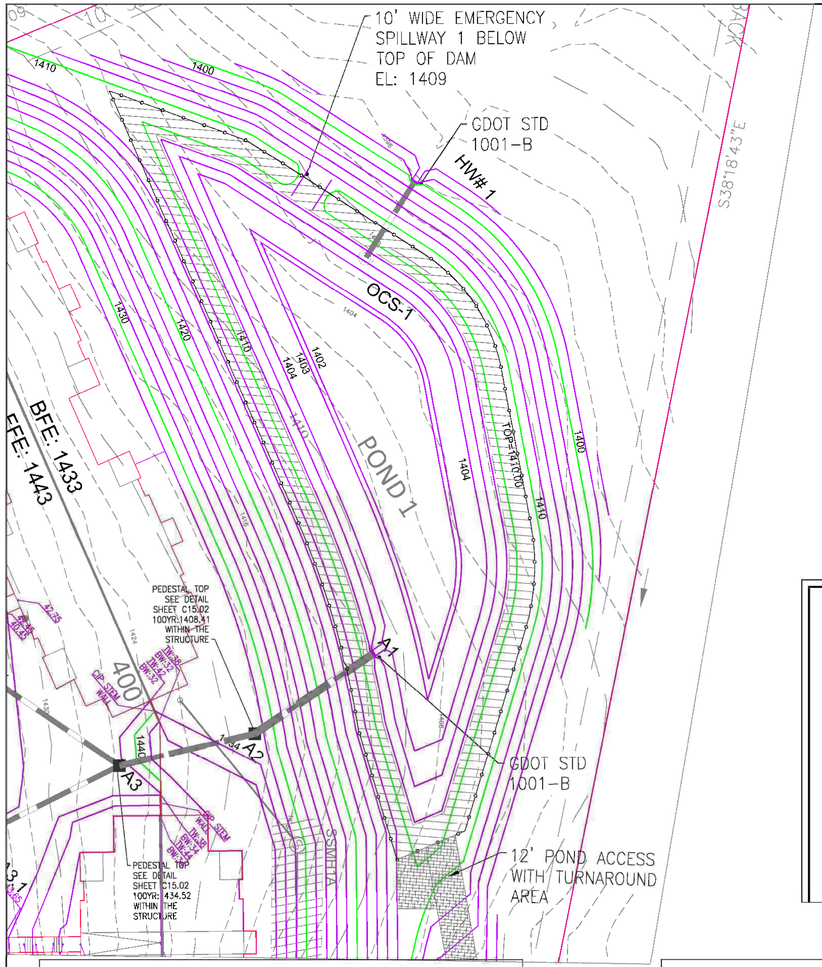
DRAWING TITLE

GRADING PLAN

DRAWING NUMBER

C5.01

TerraBuild USA, Inc. ○ MANAGE ○ BUILD ○ DESIGN ○ PLAN ○ ENVISION



NORTH

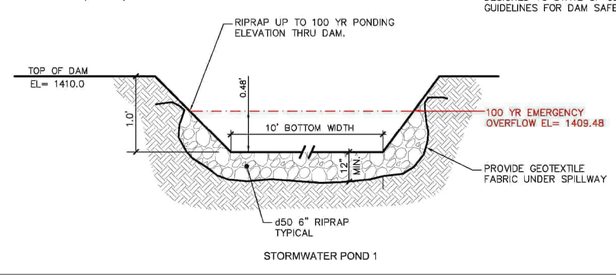
GRAPHIC SCALE

30 0 15 30 60 120

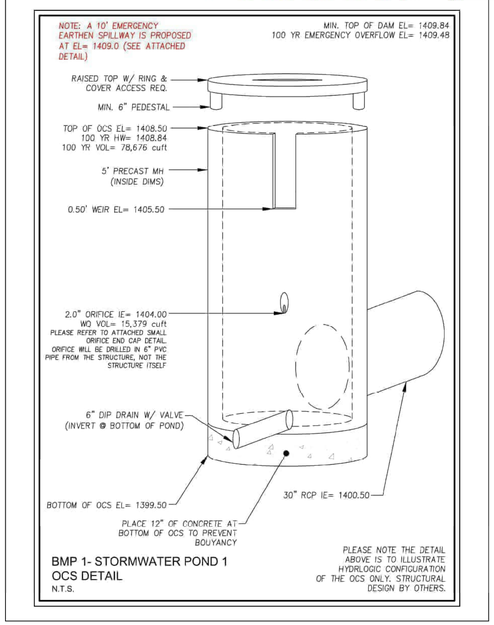
(IN FEET)
1 inch = 30 ft.

PROPOSED EARTHEN SPILLWAY
CROSS SECTIONS (N.T.S.)

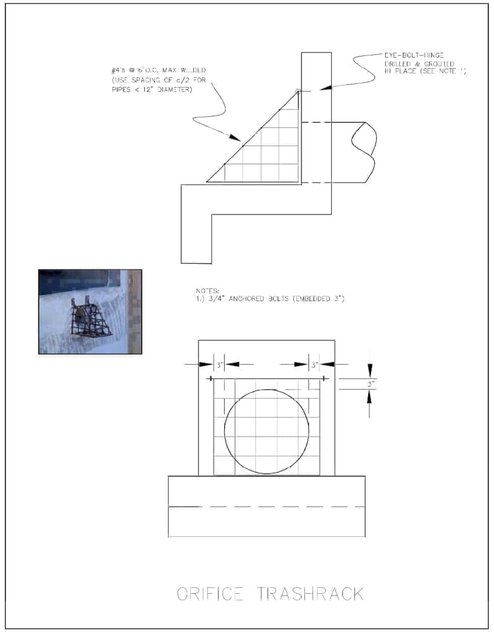
NOTE: ALL EMBANKMENTS MUST BE DESIGNED TO STATE OF GEORGIA GUIDELINES FOR DAM SAFETY



STORMWATER POND 1

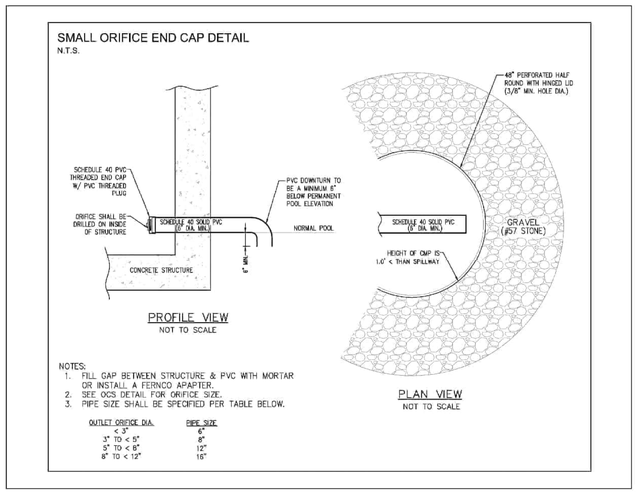


BMP 1- STORMWATER POND 1
OCS DETAIL
N.T.S.



ORIFICE TRASHRACK

SMALL ORIFICE END CAP DETAIL
N.T.S.



NOTES:
1. FILL GAP BETWEEN STRUCTURE & PVC WITH MORTAR OR INSTALL A FERNCO APAPTER.
2. SEE OCS DETAIL FOR ORIFICE SIZE.
3. PIPE SIZE SHALL BE SPECIFIED PER TABLE BELOW.

OUTLET ORIFICE DIA.	PIPE SIZE
< 3"	6"
3" TO < 5"	8"
5" TO < 8"	12"
8" TO < 12"	16"

CLIENT

CAPITAL COMMUNITIES

116 LOCUST AVENUE, SUITE F
COOKEVILLE, TENNESSEE
38501

PROJECT

CHAMBERS STREET APARTMENTS

LL 271, 306
12th DISTRICT, 2nd SECTION

TerraBuild PROJECT NO. E-22005

TerraBuild USA, INC.
P.O. BOX 601 LILBURN,
GEORGIA 30048
Office: 770.900.7619
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GEORGIA REGISTERED No. 31248 PROFESSIONAL ENGINEER SANJEEV Y. TRIAL

03-17-26

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7	3-17-26	CITY COMMENTS	JTH

DRAWING TITLE

POND DETAILS

DRAWING NUMBER

C5.02

BUILD ○ MANAGE ○ TerraBuild USA, Inc.
ENVISION ○ PLAN ○ DESIGN ○



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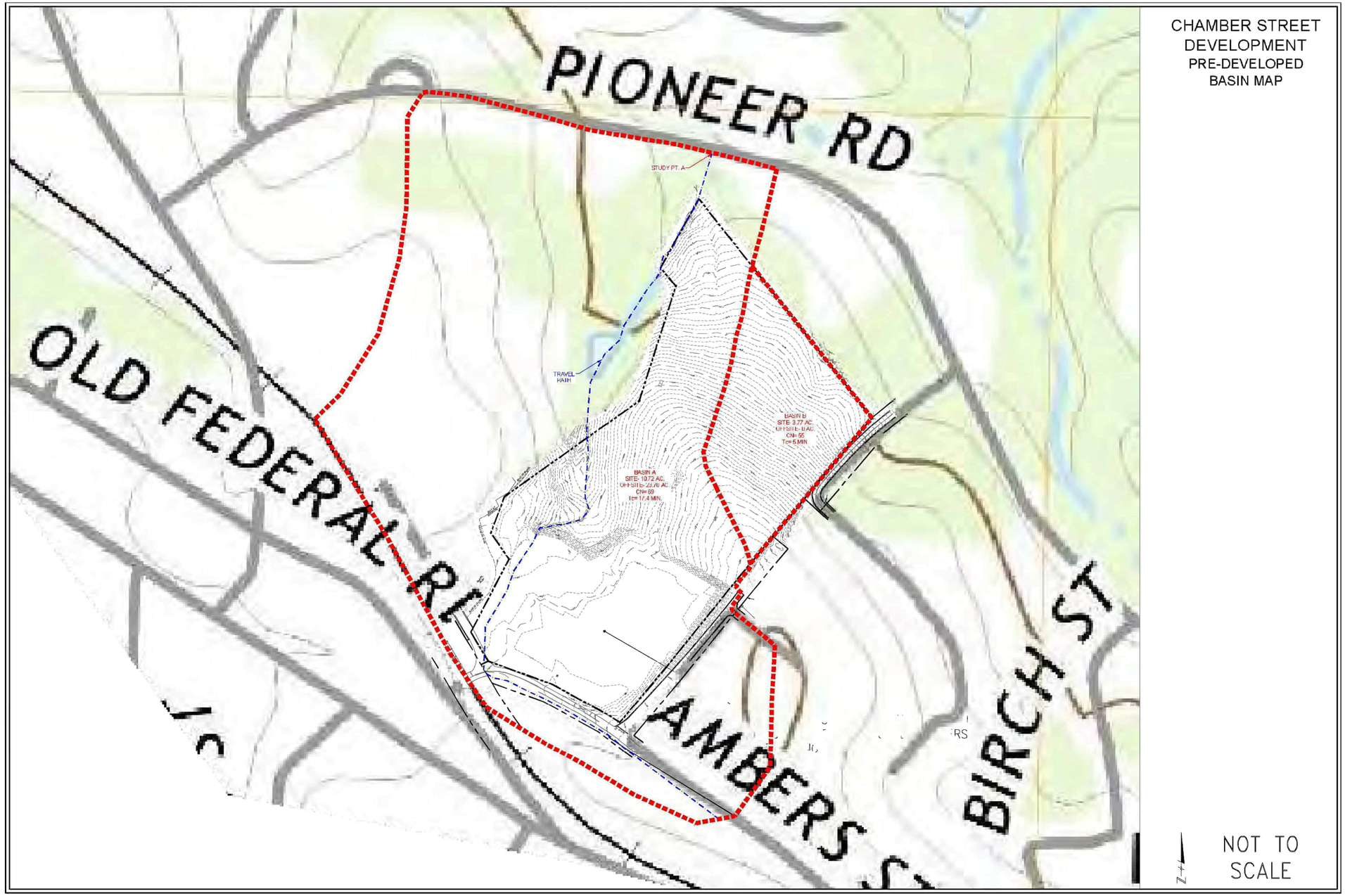
DRAWING TITLE

SPOT ELEVATIONS ADA ROUTES

DRAWING NUMBER

C5.03

ENVISION ○ PLAN ○ DESIGN ○ BUILD ○ MANAGE ○ TerraBuild USA, Inc.



CHAMBER STREET DEVELOPMENT
PRE-DEVELOPED BASIN MAP

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6 3-17-26	CITY COMMENTS	JTH

DRAWING TITLE

PRE DEV BASIN MAP

DRAWING NUMBER

C5.04

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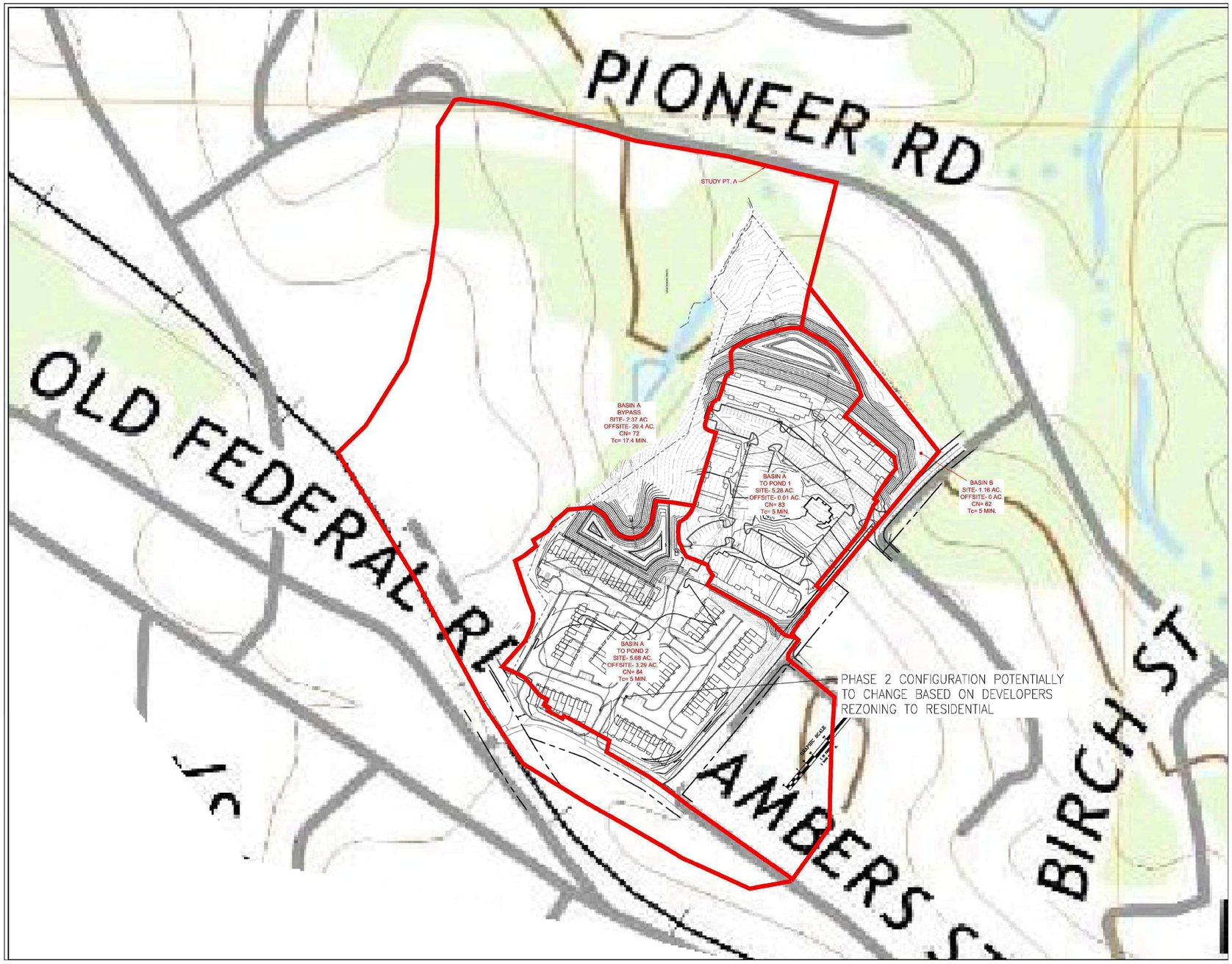
ENVISION ○ PLAN ○ DESIGN ○



NOT TO SCALE

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7	3-17-26 CITY COMMENTS	JTH

DRAWING TITLE

POST DEV BASIN MAP

DRAWING NUMBER

C5.05

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ENVISION ○ PLAN ○ DESIGN ○

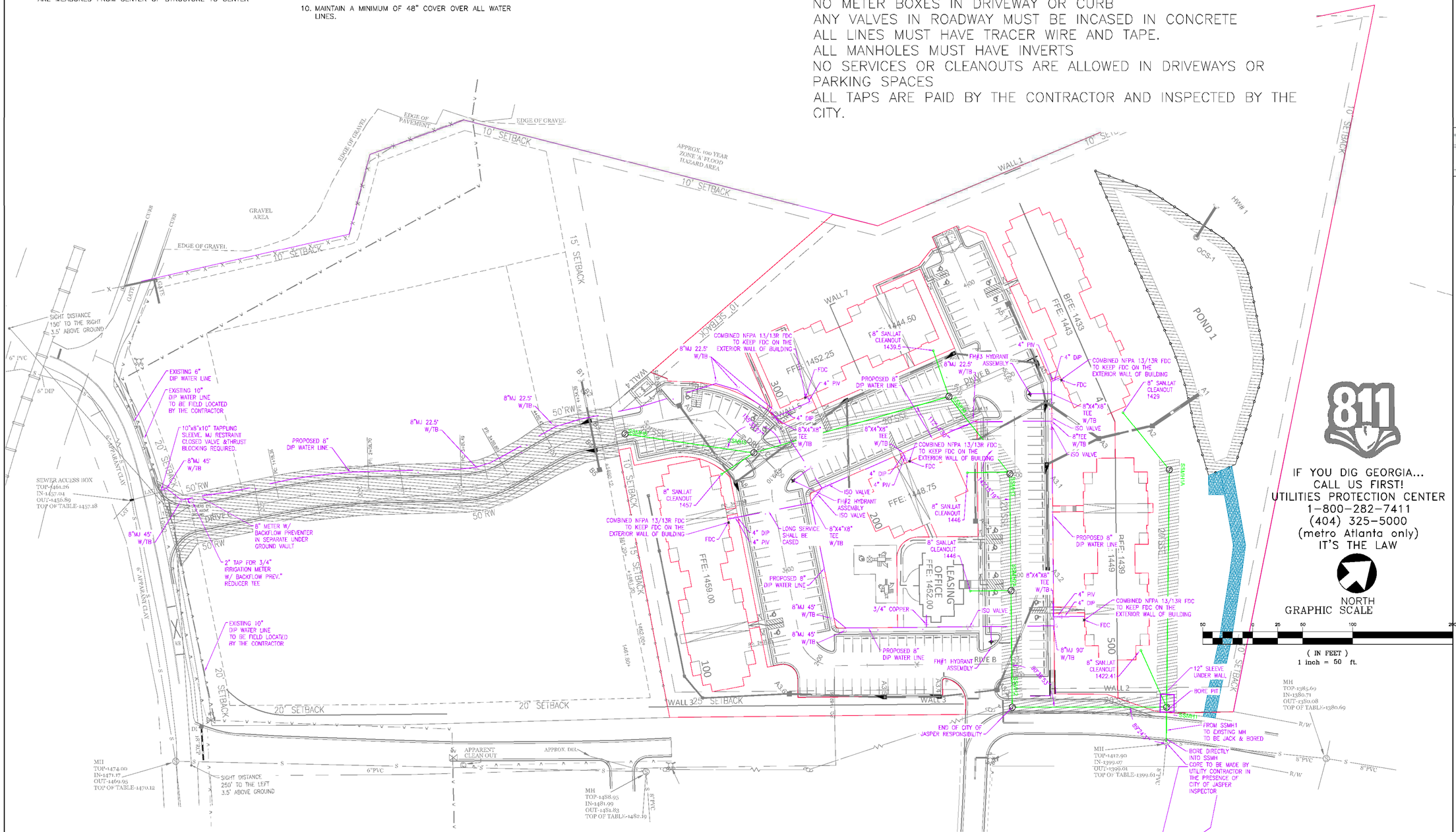
NOTES:

1. UTILITIES AND OTHER IMPROVEMENTS MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS OR ARE AT LOCATIONS AND ELEVATIONS DIFFERENT FROM THAT SHOWN ON THESE DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT THE SITE PRIOR TO CONSTRUCTION AND NOTIFY TERRABUILD USA, INC. OF ANY DISCREPANCIES BETWEEN INFORMATION SHOWN HEREIN AND WHAT EXISTS IN THE FIELD. IF DISCREPANCIES ARE FOUND, CONTRACTOR SHALL NOT BEGIN WORK ON AFFECTED IMPROVEMENTS UNTIL ALL DISCREPANCIES ARE RESOLVED.
2. FIRE HYDRANTS AND WATER MAINS SHALL BE INSTALLED AND UNDER PRESSURE PRIOR TO CONSTRUCTION OF ANY FEATURES CONTAINING COMBUSTIBLE MATERIALS.
3. THRUST BLOCKING SHALL BE PROVIDED AT ALL BENDS OR TERMINUS PER AWAA STANDARD SECTION C600, SECTION 12.3 OR LATEST REVISION.
4. PIPE LENGTHS BETWEEN SANITARY SEWER STRUCTURES ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE ON A HORIZONTAL PLANE.
5. PIPE BEDDING REQUIREMENTS SHOWN HEREIN ARE MINIMUM REQUIREMENTS. ADDITIONAL BEDDING MAY BE REQUIRED BY THE GEOTECHNICAL ENGINEER.
6. ALL SANITARY SEWER AND WATER SYSTEM CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF JASPER STANDARDS.
7. WATER LINE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL REQUIREMENTS OF CITY OF JASPER AND THE SPECIFICATIONS AND DETAILS OF CITY OF JASPER CONSTRUCTION STANDARDS AND WATER SYSTEM SPECIFICATIONS, LATEST EDITION.
9. EXISTING WATER SERVICES (IF APPLICABLE) MUST REMAIN IN SERVICE DURING CONSTRUCTION. IF SHUT-OFFS ARE NECESSARY, NOTIFICATION AND SCHEDULING SHALL BE GIVEN TO XX AND XXX CUSTOMERS. THE FIRE DEPARTMENT SHALL ALSO BE NOTIFIED 24-HOURS IN ADVANCE OF ANY FIRE HYDRANT BEING TAKEN OUT OF SERVICE.
10. MAINTAIN A MINIMUM OF 48" COVER OVER ALL WATER LINES.

HYDRANT ASSEMBLY INCLUDES:

8"X6" HYDRANT TEE
4' BURY
6" GATE VALVE
6" VALVE BOX & PAD
6" ANCHOR COUPLING

ALL WATER LINE DR14 C900.
ALL SEWER LINE SDR26
MANHOLE COATED ON THE OUTSIDE
ANY VALVES IN THE ROADS MUST BE ENCASED IN CONCRETE.
ANY MANHOLES IN THE ROAD MUST BE ENCASED IN CONCRETE.
ALL WATER SERVICES ARE TO BE POLY ON THE CITY SIDE.
ALL FIRE HYDRANTS MUST BE BEDDED IN GRAVEL
ALL TAPS WILL BE COMPLETED BY THE CONTRACTOR AND PURCHASED FROM THE CITY.
ALL VALVES AND SERVICES MUST BE MARKED ON CURB
NO IRRIGATION LARGER THAN A ¾" METER
ALL ¾" METER BOXES TO BE PLASTIC
NO METER BOXES IN DRIVEWAY OR CURB
ANY VALVES IN ROADWAY MUST BE INCASED IN CONCRETE
ALL LINES MUST HAVE TRACER WIRE AND TAPE.
ALL MANHOLES MUST HAVE INVERTS
NO SERVICES OR CLEANOUTS ARE ALLOWED IN DRIVEWAYS OR PARKING SPACES
ALL TAPS ARE PAID BY THE CONTRACTOR AND INSPECTED BY THE CITY.



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GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

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38501

PROJECT

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DATE 08-26-2022

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7	09-18-25 CITY COMMENTS	JTH
8	2-05-26 CITY COMMENTS	JTH
9	3-17-26 CITY COMMENTS	JTH

DRAWING TITLE

UTILITY PLAN

DRAWING NUMBER

C6.01

BUILD ○ MANAGE ○ PLAN ○ DESIGN ○ ENVISION ○ TerraBuild USA, Inc.

NOTES:
1. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY FROM THE SITE.
2. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ON TO PUBLIC RIGHT–OF–WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMANDS, AND REPAIR AND/OR CLEAN–OUT OF ANY STRUCTURES USED TO TROP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED.
3. PROVIDED GPS COORDINATES AT CONSTRUCTION EXIST AS REQUIRED ON THE NOTICE OF INTENT UNDER NPDES APPLICATION. (34.47422, –84.43320)
4. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE SHALL OCCUR WITHIN THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
5. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
6. OWNER AGREES TO PROVIDE AND MAINTAIN OFF STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.
7. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.
8. THE CONSTRUCTION OF THE SITE WILL INITIATE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UP STREAM GROUND WITHIN THE CONSTRUCTION AREAS HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.
9. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOBSITE UNTIL SUCH MEASURES ARE CORRECTED CONSISTENT WITH THE CITY OF FORSYTH COUNTY EROSION CONTROL ORDINANCE
10. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.
11. ALL SEWER EASEMENTS DISTURBED MUST BE DRESSED AND GRASSED TO CONTROL EROSION.

THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES MUST BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE PROPERTY OWNERS.

PETROLEUM STORAGE SHALL BE DONE IN ACCORDANCE WITH ONE OF THE TWO FOLLOWING METHODS TO PREVENT STORM WATER DISCHARGES ON THE SITE.
A. ALL PETROLEUM STORAGE CONTAINERS SHALL BE COVERED WITH PLASTIC SHEETING OR BE LOCATED UNDER A TEMPORARY ROOF.
B. ALL PETROLEUM STORAGE CONTAINERS SHALL BE LOCATED IN A SECONDARY CONTAINMENT AREA.

NOTES:
1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO ANY LAND DISTURBING ACTIVITIES.
2. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL,ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
3. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 7 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

TOTAL ACREAGE: 7.68AC
DRAINAGE ACREAGE: 6.67AC

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATION DESCRIBED HERE-IN BY MYSELF OR MY AUTHORIZED AGENT UNDER MY DIRECT SUPERVISION.

03/17/2026

SANJEEV IRKAL DATE
LEVEL II CERTIFIED DESIGN PROFESSIONAL
CERTIFICATION NUMBER: #92699

"THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT AND CERTIFY THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WITHIN 7 DAYS AFTER INSTALLATION." *

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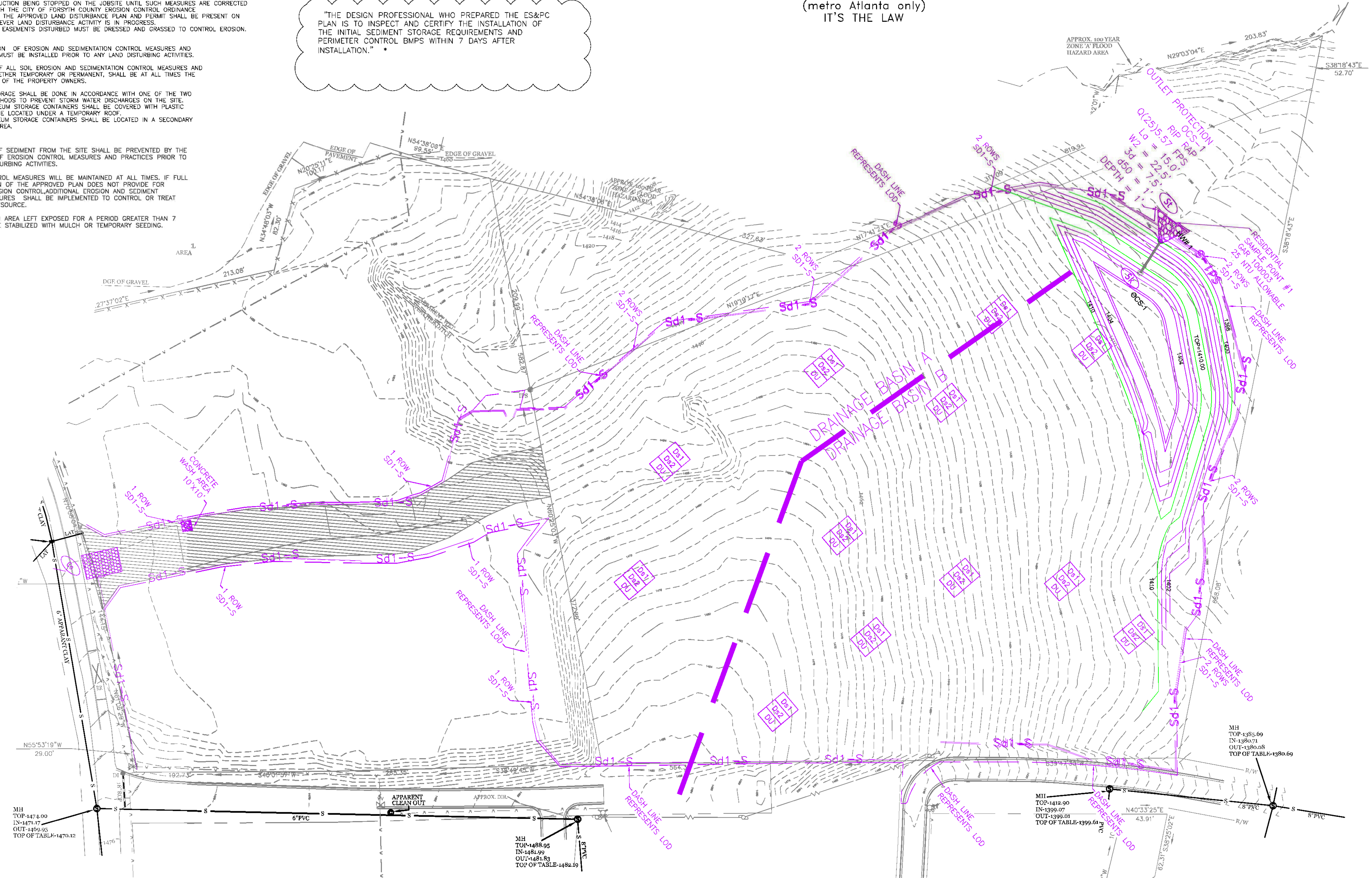

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DRAWN BY	IGC
CHECKED BY	JTH
APPROVED BY	JTH
DATE	08–26–2022

REVISIONS

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8	3–17–26	CITY COMMENTS	JTH

DRAWING TITLE

EROSION CONTROL PHASE 1

DRAWING NUMBER

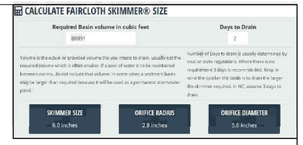
C7.01

TerraBuild USA, Inc. ENVISION o PLAN o DESIGN o BUILD o MANAGE

6-131 GSWCC 2016 Edition
TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN

Storage Calculations POND-1

1. Required stormwater storage (4.69) = 314cy
(as determined by local ordinance)
2. Required sediment storage = 314cy
(67 cy/ac * 4.69 ac drainage area)
3. Total required storage = (4.69AC)314 +(4.69AC) 314= 628 cy
4. Available storage = 1,740 cy
5. Is the available storage (4) greater than the total required storage (3)?
yes ____X no
6. If "no", the sediment storage capacity of the pond must be increased. Choose the method to be used:
_____ Raise the invert of the outlet structure _____ inches
_____X Undercut the pond _____2' feet
_____ Other_____
7. Clean-out elevation = 1405.83ft
(Elevation corresponding to 22 cy/ac *4.69ac disturbed area)
8. Is the length-width ratio 2:1 or greater?
X yes ____ no
9. If "no", the length of flow must be increased. Choose the method to be used:
_____Baffles (Type of baffle: ROCK See Sheet C7.01 for Label)
_____ Other
_____
Note the CMP diameter and height if a half-round CMP retrofit is to be used.
NONE, 6" SKIMMER TO USED



DETENTION POND USED FOR SEDIMENT STORAGE WITH SKIMMER

SKIMMER SIZING:
USE A 6" SKIMMER A
IL DRAINAGE DRILL AT
ELEVATION 1404.00

TOTAL ACREAGE: 7.68
DRAINAGE ACREAGE: 6.67

Sd3#1:
DRAINAGE ACREAGE 5.51 AC X 67 CY = 370 CY REQUIRED
1740 CY PROVIDED

Sd1:
DRAINAGE ACREAGE 1.16 AC X 67 CY = 78 CY REQUIRED
SILT FENCE LENGTH 600LF X 0.1675CY/FT= 100 CY PROVIDED

TOTAL: 6.67 DA X 67 = 447
1,840CY > 447 THEREFORE SEDIMENT
STORAGE REQUIREMENTS ARE MET.

SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN

COMPLETE THE APPROPRIATE DETAIL DRAWING FOR THE CHANNEL CROSS-SECTION OF CHOICE:

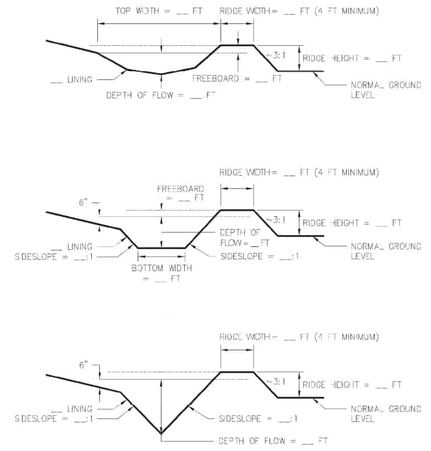


Figure 6-17.2

GSWCC 2016 Edition

6-102

NOTES:
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TOTAL ACREAGE: 7.68AC
DRAINAGE ACREAGE: 6.67AC

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03/17/2026
SANJEEV IRKAL DATE
LEVEL II CERTIFIED DESIGN PROFESSIONAL
CERTIFICATION NUMBER: #92699

NORTH

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

CLIENT

CAPITAL COMMUNITIES

116 LOCUST AVENUE, SUITE F
COOKEVILLE, TENNESSEE
38501

PROJECT

CHAMBERS STREET APARTMENTS

LL 271, 306
12th DISTRICT, 2nd SECTION

TerraBuild PROJECT NO. E-22005

TerraBuild USA, INC.
P.O. BOX 601 LILBURN,
GEORGIA 30048
Office: 770.900.7619
www.TerraBuildUSA.com

SEAL

GEORGIA REGISTERED No. 37248 PROFESSIONAL ENGINEER SANJEEV Y. IRKAL
03-17-26

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DRAWN BY IGC
CHECKED BY JTH
APPROVED BY JTH
DATE 08-26-2022

REVISIONS

1	09-06-22 CITY COMMENTS	JTH
2	03-29-24 CITY COMMENTS	JTH
3	10-08-24 GSWCC COMMENTS	JTH
4	3-24-25 GSWCC COMMENTS	JTH
5	10-27-25 CITY COMMENTS	JTH
6	2-03-26 CITY COMMENTS	JTH
7	3-17-26 CITY COMMENTS	JTH

DRAWING TITLE

EROSION CONTROL PHASE 1

DRAWING NUMBER

C7.02

BUILD • MANAGE • ENVISION • PLAN • DESIGN • TerraBuild USA, Inc.



Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
HlB	Hayesville fine sandy loam, 2 to 6 percent slopes	2.1	13.1%
HlC	Hayesville fine sandy loam, 6 to 10 percent slopes	0.2	1.3%
TcE	Tallapoosa fine sandy loam, 15 to 25 percent slopes	4.0	25.1%
ThE2	Tallapoosa gravelly sandy clay loam, 10 to 25 percent slopes, eroded	9.7	60.4%

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TOTAL ACREAGE: 14.49AC
DRAINAGE ACREAGE: 12.60AC

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4 10-27-25	CITY COMMENTS	JTH
5 2-03-26	CITY COMMENTS	JTH
6 3-17-26	CITY COMMENTS	JTH

DRAWING TITLE

SOILS MAP

DRAWING NUMBER

C7.03

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ENVISION ○ PLAN ○ DESIGN ○

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GRAPHIC SCALE

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12th DISTRICT, 2nd SECTION

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7	2-03-26 CITY COMMENTS	JTH
8	3-17-26 CITY COMMENTS	JTH

DRAWING TITLE

EROSION CONTROL PHASE 2

DRAWING NUMBER

C8.01

BUILD ◦ MANAGE ◦ TerraBuild USA, Inc.
ENVISION ◦ PLAN ◦ DESIGN ◦

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03/17/2026

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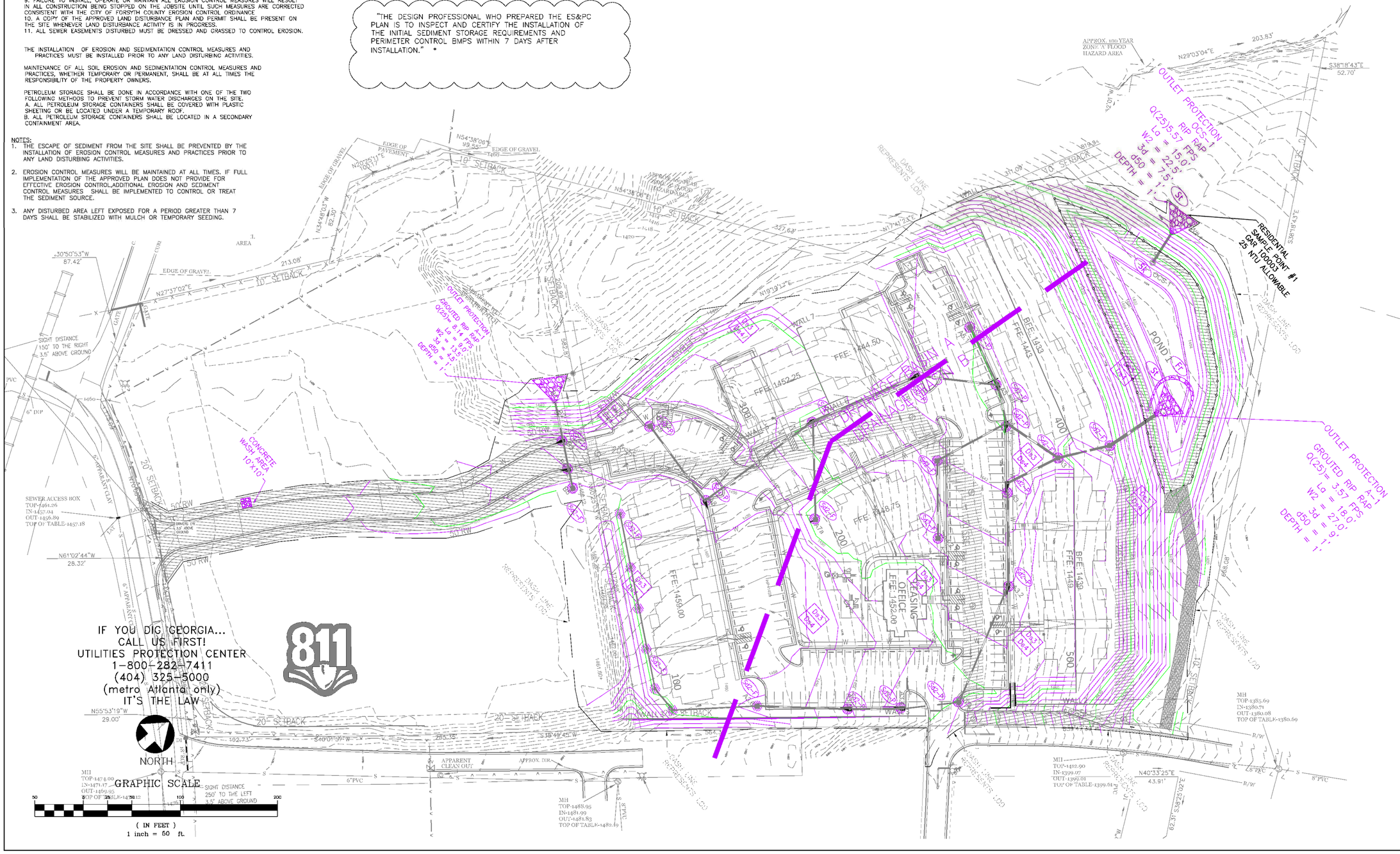

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6	09-18-25	CITY COMMENTS	JTH
7	10-27-25	CITY COMMENTS	JTH
8	2-05-26	CITY COMMENTS	JTH
9	3-17-26	CITY COMMENTS	JTH

DRAWING TITLE

EROSION CONTROL PHASE 3

DRAWING NUMBER

C9.01

BUILD ○ MANAGE ○ PLAN ○ DESIGN ○ ENVISION ○ TerraBuild USA, Inc.

GEORGIA
UNIFORM CODING SYSTEM
FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES
GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION			A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE			A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE			A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE			Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING			A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER			A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM			Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN			A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)		Cs	Planting vegetation on dunes that are denuded, artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP. SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM. SEEDING)		Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SODDING)		Ds4	A permanent vegetative cover using sods on highly erodable or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and simliar sites.
Fl-Co	FLOCCULANTS AND COAGULANTS		Fl-Co	Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM. VEGETATION)		Sb	The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKIFIERS AND BINDERS		Tac	Substance used to anchor straw or hay mulch by causing the organic material to bind together.

GaSWCC (Amended – 2013)

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATION DESCRIBED HERE-IN BY MYSELF OR MY AUTHORIZED AGENT UNDER MY DIRECT SUPERVISION.

03/17/2026

SANJEEV IRKAL — DATE
LEVEL II CERTIFIED DESIGN PROFESSIONAL
CERTIFICATION NUMBER: #92699

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
COMMON DEVELOPMENT CONSTRUCTION PROJECTS (Primary and Tertiary Permittees) GAR100003
SWCD: PICKENS COUNTY

Project Name: CHAMBER ST APARTMENTS **Address:** CHAMBERS STREET
Local Issuing Authority: CITYOF JASPER **Date on Plans:** 8/26/2022 REV-3/24/2025
Name & Email of person filling out checklist: JACK HAMILTON (JHAMILTON@TERRABUILDUSA.COM)

TO BE SHOWN ON ES&PC PLAN

Plan Page #	Included Y/N		
10.01	Y	1	The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed. **Permit IV.D.1, pg 28**
10.02	Y	2	Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed)
NA	NA	3	Limit of disturbance shall be **less than** 50 acres at any one time without prior written authorization from the GAEPD District Office. If GAEPD approves the request to disturb 50 acres or more at any one time, the Plan must include the GAEPD approval letter and completed Appendix 1 of this checklist with at least 4 of the chosen BMPs. * (A copy of the written approval by GAEPD must be attached to the Plan for the Plan to be reviewed.)
10.02	Y	4	The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.
10.02	Y	5	Provide the name, address, email address, and phone number of the Primary Permittee or Tertiary Permittee.
10.02	Y	6	Note total and disturbed acreages of the project or phase under construction.
10.02	Y	7	Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
10.02	Y	8	Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
10.02	Y	9	Descriptions of the nature of construction activity and existing site conditions.
1.01	Y	10	Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
10.02	Y	11	Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
10.02	Y	12	Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on **Part IV page 22** of the permit.
10.02	Y	13	Design professional's certification statement and signature that the Permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on **Part IV page 22** of the permit.
10.02	Y	14	Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect **and certify** the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation." *
10.02	Y	15	Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
NA	NA	16	Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
10.02	Y	17	Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional." *
10.02	Y	18	Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *
10.02	Y	19	Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
10.02	Y	20	Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
10.02	Y	21	Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
10.02	Y	22-A	Prior to a Secondary Permittee conducting any construction activity, the applicable portion of the Primary Permittee's ES&PC Plan is to be provided. The Plan shall include a section for each Secondary Permittee to sign the Secondary Permittee Certification Statement and include the information required by **Part II.B.2.** *
10.02	Y	22-B	For all Secondary Permittees, a Final Stabilization Certification must be signed when final stabilization has been achieved, stormwater discharge for activities has ceased, and temporary BMPs have been removed for their portion of the site. The Plan shall include a section for each Secondary Permittee to sign the Final Stabilization Certification and include the information required by **Part VI.D.** *
10.02	Y	23	Any construction activity which discharges storm water into a Biota Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as any portion of a Biota Impaired Stream Segment, must comply with **Part III.C.** of the permit. Include the completed Appendix 1 of this checklist with at least 4 of the chosen BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
10.02	Y	24	If a TMDL Implementation Plan for sediment has been finalized for the Biota Impaired Stream Segment (identified in Item 23 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *
10.02	Y	25	BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Include statement that washout of the drum at the construction site is prohibited.
10.02	Y	26	Provide BMPs for the remediation of all petroleum spills and leaks.
10.02	Y	27	Description of practices to provide cover for building materials and building products on site. *
10.02	Y	28	Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed.
10.02	Y	29	Description of the practices that will be used to reduce the pollutants in storm water discharges.
10.02	Y	30	Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, grading, infrastructure, temporary and final stabilization). *
10.02	Y	31	Provide complete requirements of Inspections and record keeping by the Primary or Tertiary Permittee.
10.02	Y	32	Provide complete requirements of Sampling Frequency and Reporting of sampling results. *
10.02	Y	33	Provide complete details for Retention of Records as per **Part IV.F.** of the permit.
10.02	Y	34	Description of analytical methods to be used to collect and analyze the samples from each location. *
10.02	Y	35	Appendix B rationale for NTU values at all outfall sampling points where applicable. *
7.01	Y	36	Delineate all sampling locations on **all phases of** the Plan, and perennial and intermittent streams and other water bodies into which storm water is discharged. *
10.02	Y	37	A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial sediment storage requirements and initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all BMPs into a single phase
10.02	Y	38	Plan addresses BMPs for all phases of common development, including individual building lots and out-parcels, etc. regardless of who owns or operates the individual sites. Include typical and any applicable situational lot plans
7.01	Y	39	Graphic scale and North arrow.
7.01-8.01	Y	40	Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Map Scale	Ground Slope	Contour Intervals, ft.
1 inch = 100ft or larger scale	Flat 0 - 2% Rolling 2 - 8% Steep 8% +	0.5 or 1 1 or 2 2, 5 or 10

10.02	Y	41	Use of Alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov.
10.02	Y	42	Use of Alternative BMP for application to the Equivalent BMP List. Refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition.
7.01-8.01	Y	43	Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State Waters and any additional buffers as required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
7.01-8.01	Y	44	Delineation of all State Waters and wetlands located on or within 200 feet of the project site.
HYDRO	Y	45	Delineation and acreage of contributing drainage basins on the project site.
HYDRO	Y	46	Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. *
10.02	Y	47	Estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed. *
8.01	Y	48	Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate at all storm water discharge points.
10.02	Y	49	Soil series for the project site and their delineation.
7.01-9.01	Y	50	The limits of disturbance for each phase of construction.
7.02	Y	51	Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, Permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the
10.01	Y	52	Location of Best Management Practices that are consistent with, and no less stringent than, the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual Chapter 6, with legend.
11.01-11.02	Y	53	Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
11.01-11.02	Y	54	Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

* This requirement of the Common Development permit is not applicable to Tertiary Permittees with a Plan(s) for a typical individual lot(s). If the total land disturbance within the construction site is less than five (5) acres and the total land disturbance within each individual lot is less than one (1) acre. If applicable, the * checklist item would be N/A.

Effective January 1, 2025

"THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT AND CERTIFY THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WITHIN 7 DAYS AFTER INSTALLATION." *

EACH SECONDARY PERMITTEE SHALL BE PROVIDED WITH A COPY OF THE EROSION CONTROL PLANS OR PORTIONS OF THE PLAN APPLICABLE TO THEIR SITE AND EACH SECONDARY PERMITTEE SHALL SIGN THE PLAN OR PORTION OF THE PLAN APPLICABLE TO THEIR SITE.

SECONDARY PERMITTEES SIGN WHEN RECEIVING PLANS. ALL SECONDARY PERMITTEES MUST SUBMIT A SECONDARY NOI AT LEAST 14 DAYS PRIOR TO BEGINNING CONSTRUCTION ACTIVITY.

NAME: _____ PHONE: _____
COMPANY: _____
ADDRESS: _____
ADDRESS: _____
GSWCC LEVEL 1A CERTIFICATION NO. _____
SIGNATURE: _____

NAME: _____ PHONE: _____
COMPANY: _____
ADDRESS: _____
ADDRESS: _____
GSWCC LEVEL 1A CERTIFICATION NO. _____
SIGNATURE: _____

NAME: _____ PHONE: _____
COMPANY: _____
ADDRESS: _____
ADDRESS: _____
GSWCC LEVEL 1A CERTIFICATION NO. _____
SIGNATURE: _____

NAME: _____ PHONE: _____
COMPANY: _____
ADDRESS: _____
ADDRESS: _____
GSWCC LEVEL 1A CERTIFICATION NO. _____
SIGNATURE: _____

THE PLAN PREPARER OR HIS/HER DESIGNEE HAS BEEN TO THE SITE PRIOR TO THE PREPARATION OF THIS PLAN.

03/17/2026
SIGNATURE — DATE

CLIENT

CAPITAL COMMUNITIES

116 LOCUST AVENUE, SUITE F
COOKEVILLE, TENNESSEE
38501

PROJECT

CHAMBERS STREET APARTMENTS

LL 271, 306
12th DISTRICT, 2nd SECTION

TerraBuild PROJECT NO. E-22005

TerraBuild USA, Inc.
P.O. BOX 601 LILBURN,
GEORGIA 30048
Office: 770.900.7619
www.TerraBuildUSA.com

SEAL

03-17-26

NOT VALID WITHOUT SIGNATURE AND DATE

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DESIGNED BY JTH
DRAWN BY JTH
CHECKED BY SYI
APPROVED BY SYI
DATE 08-26-2022

REVISIONS

1	09-06-22 CITY COMMENTS	JTH
2	03-29-24 CITY COMMENTS	JTH
3	10-08-24 GWSCC COMMENTS	JTH
4	10-08-24 GWSCC COMMENTS	JTH
5	10-27-25 CITY COMMENTS	JTH
6	2-03-26 CITY COMMENTS	JTH
7	3-17-26 CITY COMMENTS	JTH

DRAWING TITLE

EROSION CONTROL NOTES

DRAWING NUMBER

C10.01

BUILD • MANAGE • TerraBuild USA, Inc.
ENVISION • PLAN • DESIGN

2. **LEVEL II CERTIFICATION NUMBER ISSUES BY THE COMMISSION, SIGNATURE AND SEAL OF THE DESIGN PROFESSIONAL:**

GSWCC LEVEL II PROFESSIONAL SIGNATURE

92699
GSWCC LEVEL II CERTIFICATION NUMBER

01/18/2027
GSWCC LEVEL II EXPIRATION DATE

3. THE NAME AND PHONE NUMBER OF THE 24-HOUR LOCAL CONTACT RESPONSIBLE FOR EROSION, SEDIMENTATION AND POLLUTION CONTROL: TRACE COPELAND : 404-488-2084, tcopeland@troutlandco.com

4. PROVIDE THE NAME ADDRESS AND PHONE NUMBER OF PRIMARY PERMITTEE.

PRIMARY PERMITTEE:
CAPITOL COMMUNITIES
116 LOCUST AVENUE, SUITE F
COOKEVILLE, TN 38501
PHONE: 931-526-6080
EMAIL: DFSUITS@CAPITAL-COMMUNITIES.COM

5. TOTAL PROJECT SITE AREA: 7.68 AC

TOTAL DISTURBED AREA: 6.67 AC

6. GPS LOCATION OF THE CONSTRUCTION EXIT:

34.47422, -84.43320

7. INITIAL DATE OF THE PLAN AND THE DATES OF ANY REVISIONS MADE TO THE PLAN INCLUDING THE ENTITY WHO REQUESTED THE REVISIONS:

SEE TITLE BLOCK (NOTATION OF REVISIONS WILL BEGIN ONCE PLANS HAVE BEEN APPROVED)

8. DESCRIPTION OF THE NATURE OF CONSTRUCTION ACTIVITY:

THE SITE IS PARTIALLY FORESTED AND UNDEVELOPED AND PARTIALLY CLEARED AND PREVIOUSLY DEVELOPED. THE SITE HAS ROLLING HILLS AND TREES CONSISTING OF PINE AND HARDWOODS. THE DEVELOPER PLANS TO INSTALL ALL INFRASTRUCTURE NECESSARY INCLUDING STREETS, CURB/GUTTER, SIDEWALKS, SANITARY & STORM SEWER, WATER LINES, AND LANDSCAPING FOR THE PROPOSED RESIDENTIAL APARTMENTS.

9. VICINITY MAP:

SEE COVER PAGE

10. PROJECT RECEIVING WATERS:

UNNAMED PERENNIAL CREEK WHICH FEEDS INTO HINTON CREEK

11. PROFESSIONAL'S CERTIFICATION STATEMENT:

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

SANJEEV IRKAL P.E. DATE 03/17/2026

12. PROFESSIONAL'S CERTIFICATION STATEMENT:

I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALL(S) AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100003.

SANJEEV IRKAL, P.E. DATE 03/17/2026

13. "I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR THE MONITORING OF (a) ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES, OR (b) WHERE ANY SUCH SPECIFIC IDENTIFIED PERENNIAL OR INTERMITTENT STREAM AND OTHER WATER BODY IS NOT PROPOSED TO BE SAMPLED, I HAVE DETERMINED IN MY PROFESSIONAL JUDGEMENT, UTILIZING THE FACTORS REQUIRED IN THE GENERAL NPDES PERMIT NO. GAR 100003, THAT THE INCREASE IN THE TURBIDITY OF EACH SPECIFICALLY IDENTIFIED UNSAMPLED RECEIVING WATER."

14. **"THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WITHIN 7 DAYS AFTER INSTALLATION."**

92699 6/18/2027
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15. **"NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURE FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS"**

16. **THERE ARE NO BUFFER ENCROACHMENTS THAT REQUIRE A VARIANCE FROM GEORGIA EPD OR FORSYTH COUNTY.**

17. **"AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL."**

18. **"WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT"**

19. **"THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES"**

20. "EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL,ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE"

21. "ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 7 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING"

22. THERE ARE NO SECONDARY PERMITEES DURING THE LAND DISTURBANCE PHASE.

23. THE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT DO NOT DISCHARGE STORM WATER INTO IMPAIRED STREAM SEGMENT OR WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED(S), ANY PORTION OF AN BIOTA IMPAIRED STREAM SEGMENT. THEREFORE, COMPLIANCE WITH PART III.C OF THE PERMIT, INCLUDING THE COMPLETED APPENDIX 1 EPD FORM, ALL THE BMPS THAT WILL BE USED FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO THE IMPAIRED STREAM SEGMENT.

"I CERTIFY THAT GEORGIA'S MOST CURRENT OR SUBSEQUENT 305(b)/303(d) LIST DOCUMENTS (FINAL) HAVE BEEN CONSULTED TO DETERMINING IF THE PROJECT SITE IS OR IS NOT APPLICABLE TO ITEM.23 ABOVE, AND HAVE DETERMINED THAT THE PROJECT SITE IS NOT APPLICABLE TO THE REQUIREMENTS OF ITEM 22".

92699 6/18/2027
GSWCC LEVEL II PROFESSIONAL GSWCC LEVEL II CERTIFICATION NUMBER EXP. DATE

24. IMPLEMENTATION PLAN FOR SEDIMENTS HAS BEEN FINALIZED, SINCE NO IMPAIRED STREAM SEGMENTS ARE IDENTIFIED IN ITEM 23, WE ARE STILL PROVIDING WATER QUALITY AND REDUCED RUNOFF FOR THE DEVELOPMENT.

25. BMPs FOR CONCRETE WASH DOWN OF THE FOLLOWING:

TOOLS: ALL CONCRETE WASH WATER THAT RESULTS FROM THE WASHDOWN OF TOOLS USED FOR CONCRETE WORK SHALL BE CONTAINED IN A DESIGNATED CONCRETE WASHOUT AREA.

CONCRETE MIXER CHUTES: ALL CONCRETE WASH WATER THAT RESULTS FROM THE RINSING OUT OF CONCRETE MIXER CHUTES SHALL BE CONTAINED IN A DESIGNATED CONCRETE WASHOUT AREA.

HOPPERS: ALL CONCRETE WASH WATER THAT RESULTS FROM THE RINSING OUT OF CONCRETE HOPPERS SHALL BE CONTAINED IN A DESIGNATED CONCRETE WASHOUT AREA.

REAR OF VEHICLES: ALL CONCRETE AND WASH WATER THAT RESULTS FROM THE RINSING OFF OF THE REAR OF CONCRETE TRUCKS SHALL BE CONTAINED IN A DESIGNATED CONCRETE WASHOUT AREA.

WASH OUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

26. BMPs FOR REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS:
PROVIDE THE FOLLOWING VERBATIM ON THE ES&PC PLAN:
SPILL CLEANUP AND CONTROL PRACTICES
• LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.
• MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELLED PLASTIC AND METAL WASTE CONTAINERS.
• SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
• ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS.
• FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1 - 8 0 0 - 4 2 4 - 8802.
• FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1 - 800 - 424 - 8802. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS OCCUR, THE GEORGIA E.P.D. WILL BE CONTACTED WITHIN 24 HOURS. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS OCCUR, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTER MEASURERS PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

27. DESCRIPTION OF PRACTICES TO PROVIDE COVER FOR BUILDING MATERIALS AND BUILDING PRODUCTS ON SITE:

THE PROPOSED MATERIALS FOR THE THIS PROJECT INCLUDE: PVC PIPE, DIP PIPE, CONCRETE MANHOLES, #57 STONE; NONE OF WHICH PROPOSE ANY THREAT OF POLLUTING DISCHARGES. THE SITE HAS GOOD NATURAL DRAINAGE AND IS MOSTLY UP-GRADIENT AND IS COVERED. NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES. ANY TRASH WILL BE HAULED OFF IN A DUMPSTER. ALL OTHER BUILDING PRODUCTS WILL BE COVERED WITH PLASTIC POLY .

28. DESCRIPTION OF MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED:

INITIAL MEASURES WILL INCLUDE PERIMETER CONTROL WITH SILT FENCE. A PERMANENT DETENTION POND AND WATER QUALITY BMPS ARE ALSO PROPOSED IN THE FIRST PHASE OF THIS PROJECT TO PROVIDE WATER QUALITY AFTER CONSTRUCTION ACTIVITIES ARE COMPLETE. FINAL MEASURES INCLUDE LANDSCAPED TURF AREAS & AREAS OF SHEET FLOW WITH LOW SLOPES THAT FLOW TO THE PERMANENT POND. MAINTENANCE OF ALL THESE BMPS WILL BE CONTINUOUS. INSPECTIONS WILL BE DAILY FOR THE ENTIRE SITE.

29. DESCRIPTION OF THE PRACTICES THAT WILL BE USED TO REDUCE THE POLLUTANTS IN STORM WATER DISCHARGES: PETROLEUM BASED PRODUCTS-CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ONSITE VEHICLES & MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM THE NORTHWEST CORNER, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, AND LUBRICANTS IS PROHIBITED. ALL OTHER PRODUCTS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

PAINTS/FINISHES/SOLVENTS-ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS, AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WAS WATER ONSITE.

FERTILIZER/HERBICIDES- THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE DROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THOSE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

BUILDING MATERIALS-NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

30. SEQUENCE OF CONSTRUCTION SCHEDULE:

PROJECTED START DATE: MARCH 1, 2026
PROJECT FINISH DATE: SEP 30, 2027

INSTALL INITIAL EROSION CONTROL BMPS (SILT FENCE,CONSTRUCTION EXIT)
CLEAR, GRUB & TOPSOIL STOCKING
INSTALLATION OF ALL INFRASTRUCTURE REQUIRED.
MAINTENANCE OF ALL BMPS THROUGHOUT
FINAL STABILIZATION AND LANDSCAPING

31. INSPECTIONS
a. Primary Permittee.
(1). Each day when any type of construction activity has taken place at a Primary Permittee's site, certified personnel provided by the Primary Permittee shall inspect: (a) all areas at the Primary Permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment; (b) all areas at the Primary Permittee's site where vehicles enter or exit the site for evidence of off-site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted.
(2). Measure and record rainfall within disturbed areas of the site that have not final stabilization once every 24-hours except any non-working Saturday, nonworking Sunday and non-working Federal holiday. The data collected for the purpose of compliance with this permit shall be representative of the monitored activity and provided to the Secondary Permittee, if applicable. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization
or established a crop of annual vegetation and a seeding of target perennials appropriate for the region.
(3). Certified personnel (provided by the Primary Permittee) shall inspect the following at least once every six (6) calendar days: (a) disturbed areas of the Primary Permittee's construction site, (b) areas used by the Primary Permittee for storage of materials that are exposed to precipitation; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the Primary Permittee's site shall be observed to ensure that they are operating correctly. Certified personnel shall also conduct inspections within 24 hours of each applicable rainfall event (unless such storm ends after 5:00 PM on any Friday or on any non-working Saturday, non-working Sunday or any non-working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first). Post-rain inspections will reset the 7-day inspection frequency requirement. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate but later than seven calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection. The Primary Permittee must amend the Plan in accordance with Part IV.D.4.b(5), when a Secondary Permittee notifies the Primary Permittee of a change.
(6). A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, Construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.c(5). (if the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction site that has been planned has undergone final stabilization or has been transferred to another operator and a notice of termination is submitted to EPD. Such reports shall be readily available by the end of the second business day and/or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify an incident, the inspection report shall contain a statement that the best management practices are in compliance with the Erosion, Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.G.2. of this permit.
b. Secondary Permittee. (1). Each day, when any type of Construction activity has taken place at a Secondary Permittee's site, certified personnel provided by the Secondary Permittee shall inspect: (a) all areas used by the Secondary Permittee for storage of materials that are exposed to precipitation; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the Secondary Permittee's site shall be observed to ensure that they are operating correctly. Certified personnel shall also conduct inspections within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or on any non-working Saturday, non-working Sunday or any non-working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first). Post-rain inspections will reset the 7-day inspection frequency requirement. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate but later than seven calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following the inspection. (6). A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.c(5). (if the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by the end of the second business day and/or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify any incidents, the inspection report shall contain a certification that the best management practices are in compliance with the Erosion, Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.G.2. of this permit.

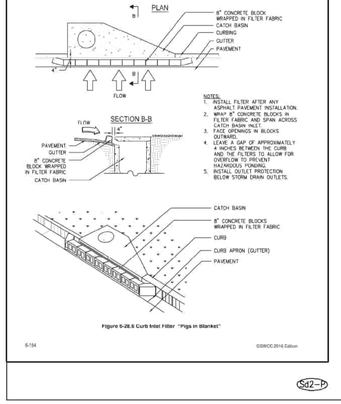
32. SAMPLING REQUIREMENTS
This permit requires the monitoring of naphelometric turbidity in receiving water(s) or outfalls in accordance with this permit. This section is applicable to Primary Permittees with a total planned disturbance equal to or greater than one (1) acre and Tertiary Permittees with a total planned disturbance equal to or greater than five (5) acres. This section is not applicable to Secondary Permittees. The following procedures constitute EPD's guidelines for sampling turbidity. Sampling Requirements shall include the following: (1). A USGS topographic map, a topographic map or a drawing (referred to as a topographic map) that is a scale equal to or more detailed than a 1:24000 map showing the location of the site or the common de-elopment; (a) the location of all perennial and intermittent streams and other water bodies as shown on a USGS topographic map, and all other perennial and intermittent streams and other water bodies located during maindmery field verification, into which the stormwater is discharged and (b) the receiving water and/or outfall sampling locations. When the permittee has chosen to use a USGS topographic map and the receiving water(s) is not shown on the USGS topographic map, the location of the receiving water(s) must be hand-drawn on the USGS topographic map from where the stormwater(s) enters the receiving water(s) to the point where the receiving water(s) combines with the first blue line stream shown on the USGS topographic map; (2). The analytical method used to collect and analyze the samples from across the receiving water(s) (i.e., most stream or supporting warm water fisheries); and (4). Any additional information EPD determines necessary to be part of the Plan. EPD will provide written notice to the permittee of the information necessary and the timeline for submittal. Sample Type. All sampling shall be collected by "grab samples" and the analysis of these samples must be conducted in accordance with methodology and test procedures established by 40 CFR Part 136 (unless other test procedures have been approved); the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833- B-92-001" and guidance documents that may be prepared by the EPD. (1). Sample containers should be labeled prior to collecting the samples. (2). Samples should be well mixed before transferring to a secondary container. (3) Large mouth, clean and rinsed glass or plastic jars should be used for collecting samples. The jars should be cleaned thoroughly to avoid contamination. (4). Manual, automatic or rising stage sampling may be utilized. Samples required by this permit should be analyzed immediately, but in no case later than 48 hours after collection. However, samples from automatic samplers must be collected no later than the next business day after their accumulation, unless flow through automated analysis is utilized. If automatic sampling is utilized and the automatic sampler is not activated during the qualifying event, the permittee must utilize manual sampling or rising stage sampling during the next qualifying event. Dilution of samples is not required. Samples may be analyzed using a direct reading, properly calibrated turbidimeter. Samples are not required to be cooled. (5). Sampling and analysis of the receiving water(s) or outfalls beyond the minimum frequency stated in this permit must be reported to EPD as specified in Part IV.E.
c. Sampling Points.
(1). For construction activities the Primary Permittee with a total planned disturbance equal to or greater than one (1) acre and Tertiary Permittee with a total planned disturbance equal to or greater than five (5) acres must sample all receiving water(s), or all outfall(s), or a combination of receiving water(s) and outfall(s). Sampling points shall be located on applicable pages of the Initial, Intermediate, and Final phase of the Erosion, Sedimentation and Pollution Control Plans Samples taken for the purpose of compliance with this permit shall be representative of the monitored activity and representative of the water quality of the receiving water(s) and/or the storm-water outfalls using the following minimum guidelines: (a). The upstream sample for each receiving water(s) must be taken immediately upstream of the confluence of the first stormwater discharge from the permitted activity (i.e., the discharge furthest upstream at the site) but downstream of any other stormwater discharges not associated with the permitted activity. Where appropriate, several upstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the upstream turbidity value. (b). The downstream sample for each receiving water(s) must be taken downstream of the confluence of the last stormwater discharge from the permitted activity (i.e., the discharge furthest downstream at the site) but upstream of any other stormwater discharge not associated with the permitted activity. Where appropriate, several downstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the downstream turbidity value. (c). Ideally the samples should be taken from the horizontal and vertical center of the receiving water(s) or the stormwater outfall channel(s). (d). Care should be taken to avoid stirring the bottom sediments in the receiving water(s) or in the outfall stormwater channel. (e). The sampling container should be held so that the opening faces upstream. (f). The sample should be kept free from floating debris. (g). Permittees do not have to sample sheet flow that flows onto undisturbed natural areas or areas stabilized by the project. For purposes of this section, stabilized shall mean, for unpaved areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by EPD for waste disposal, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures as defined in the Manual (excluding a crop of annual vegetation and seeding of target crop perennials appropriate for the region). (h). All sampling pursuant to this permit must be done in such a way (including generally accepted sampling methods, locations, timing, and frequency) as to accurately reflect whether stormwater runoff from the construction site is in compliance with the standard set forth in Parts or or III.D.5., whichever is applicable.
Sampling Frequency.
(1). The Primary Permittee with a total planned disturbance equal to or greater than one (1) acre and Tertiary Permittee with a total planned disturbance equal to or greater than five (5) acres must sample in accordance with the Plan at least once for each rainfall event described below. For a qualifying event, the permittee shall sample at the beginning of any stormwater discharge to a monitored receiving water and/or from a monitored outfall within forty-five (45) minutes or as soon as possible. (2). However, where manual and automatic sampling are impossible (as defined in this permit), or are beyond the permittee's control, the permittee shall take samples as soon as possible, but in no case more than two (2) hours after the beginning of the stormwater discharge. (3). Sampling by the permittee shall occur for the following qualifying event: (a). For each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a stormwater discharge that occurs during normal business hours either 90 days after the first sampling event or after all measurements have been completed, but prior to submittal of a NOT, in the drainage area of the location selected as the sampling location, whichever comes first.(a). the first rain event that reaches or exceeds 0.5 inch and (b). also is, if BMPs in any portion of the site discharge to a receiving water or from an outfall are not properly designed, installed and maintained, corrective action shall be defined and implemented within two (2) business days, and turbidity samples shall be taken from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch during normal business hours* until the selected turbidity standard is attained, or until such rain event that reaches or exceeds 0.5 inch during normal business hours* occurs, whichever is first. (b). Sampling by the permittee shall occur for the following qualifying rain events: (a). For each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a stormwater discharge that occurs during normal business hours either 90 days after the first sampling event or after all measurements have been completed, but prior to submittal of a NOT, in the drainage area of the location selected as the sampling location, whichever comes first.(a). the first rain event that reaches or exceeds 0.5 inch and (b). also is, if BMPs in any portion of the site discharge to a receiving water or from an outfall are not properly designed, installed and maintained, corrective action shall be defined and implemented within two (2) business days, and turbidity samples shall be taken from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch during normal business hours* until the selected turbidity standard is attained, or until such rain event that reaches or exceeds 0.5 inch during normal business hours* occurs, whichever is first. (b). Sampling by the permittee shall occur for the following qualifying rain events: (a). For each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a stormwater discharge that occurs during normal business hours either 90 days after the first sampling event or after all clearing and grubbing operations have been completed, but prior to completion of mass grading operations, in the drainage area of the location selected as the sampling location; (b). In addition to (a) above, for each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a stormwater discharge that occurs during normal business hours either 90 days after the first sampling event or after all mass grading operations have been completed, but prior to completion of rough grading operations, in the drainage area of the location selected as the sampling location, whichever comes first.(a). and (b). also is, if BMPs in any portion of the site discharge to a receiving water or from an outfall are not properly designed, installed and maintained, corrective action shall be defined and implemented within two (2) business days, and turbidity samples shall be taken from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch during normal business hours* until the selected turbidity standard is attained, or until such rain event that reaches or exceeds 0.5 inch during normal business hours* occurs, whichever is first. (c). Sampling by the permittee pursuant to (a), (b) or (c) above is required but not possible (or not required because there was no discharge), the Primary Permittee, in accordance with Part IV.D.4.a(6)., or the Tertiary Permittee, in accordance with Part IV.D.4.c(6)., must include a written justification in the inspection report of why sampling could not be performed. Providing this justification does not relieve the permittee of any subsequent sampling obligations under (a), (b) or (c) above, and (e). Existing construction activities, i.e., those that are occurring on or before the effective date of this permit, that have met the sampling required by (a) above shall remain in accordance with (b). Those existing construction activities that have met the sampling required by (b) above shall not be required to conduct additional sampling other than is required by (a) above. *Note that the Permittee may choose to meet the requirement of (a) and (b) above by collecting turbidity samples from any rain event that reaches or exceeds 0.5 inch and allows for sampling at any time of the day or week. Non-stormwater discharges. Except for flows from firefighting activities, sources of nonstormwater listed in Part III.A.2. of this permit that are combined with stormwater discharges associated with industrial activity must be identified in the Plan. The Plan shall identify and ensure the implementation of appropriate pollution prevention measures for the non-stormwater component(s) of the discharge.
f. Reporting.
1. The applicable permittees are required to submit the sampling results to the EPD at the address shown in Part II.C. by the fifteenth day of the month following the reporting period. Reporting periods are months during which samples are taken in accordance with this permit. Sampling results shall be in a clearly legible format. Upon written notification, EPD may require the applicable permittee to submit the sampling results on a more frequent basis. Sampling and analysis of any stormwater discharge(s) or the receiving water(s) beyond the minimum frequency stated in this permit must be reported in a similar manner to the EPD. The sampling reports must be signed in accordance with Part V.G
2. Sampling reports must be submitted to EPD using the electronic submittal service provided by EPD. Sampling reports must be submitted to EPD until such time as a NOT is submitted in accordance with Part VI. All sampling reports shall include the following information:
a. The rainfall amount, date, exact place and time of sampling or measurements;
b. The name(s) of the certified personnel who performed the sampling and measurements;
c. The date(s) analyses were performed;
d. The time(s) analyses were initiated;
e. The name(s) of the certified personnel who performed the analyses;
f. References and the analytical techniques or methods used;
g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results;
h. Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU;" and
i. Certification statement that sampling was conducted as per the Plan.
3. All written correspondence required by this permit shall be submitted by return receipt certified mail or similar service to the appropriate EPD District Office or delivery receipt mail to the appropriate EPD District Office or delivery receipt mail to the appropriate mailbox according to the schedule in Appendix A of this.The applicable permittees shall retain a copy of the proof of submittal at the construction site or the proof of submittal shall be readily available at a designated location from commencement of construction until such time as a NOT is submitted in accordance with Part VI.

33. RETENTION OF RECORDS
1. The Primary Permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI: A copy of all Notices of Intent submitted to EPD, A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit; The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5. of this permit; A copy of all sampling information, results, and reports required by this permit; A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit; A copy of all violation summaries and violation summary reports generated in accordance with Part III.D. of this permit; and Daily rainfall information collected in accordance with Part IV.D.4.a.(2). of this permit.
2. Each Secondary Permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of
construction until such time as a Final Stabilization Certification is signed in accordance with Part VI of this Permit: A copy of the certification that the provisions of the Primary Permittee's Erosion, Sedimentation, and Pollution Control Plan applicable to the Secondary Permittee's activities will be adhered to; A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit or the applicable portion of the Erosion, Sedimentation and Pollution Control Plan for their activities; For areas of the construction site owned by the permittee,
3. A copy of all inspection reports generated in accordance with Part IV.D.4.b. of this permit; and A copy of all violation summaries and violation summary reports generated in accordance with Part III.D. of this permit; and. Daily rainfall information collected in accordance with Part IV.D.4.c.(2). of this permit. Copies of all Notices of Intent, Notices of Termination, inspection reports, sampling reports (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) or other reports requested by the EPD, Erosion, Sedimentation and Pollution Control Plan, and all other records required by this permit shall be retained by the permittee who either produced or used it for a period of at least three years from the date that the NOT is submitted in accordance with Part VI of this permit. These records must be maintained at the permittee's primary place of business once the construction activity has ceased at the permitted This period may be extended by request of the EPD at any time upon written notification to the permittee

34. DESCRIPTION OF ANALYTICAL METHODS TO BE USED TO COLLECT AND ANALYZE THE SAMPLES FROM EACH LOCATION:

SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:
(1) A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE STAND ALONE CONSTRUCTION; (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORM WATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAP

CURB INLET FILTER "PIGS IN BLANKET"



NOTES:
1. INSTALL FILTER AFTER ANY ASPHALT PAVEMENT INSTALLATION.
2. WRAP 8" CONCRETE BLOCKS IN FILTER FABRIC AND SPAN ACROSS CURB INLET OPENING.
3. FACE OPENINGS IN BLOCKS OUTWARD.
4. LEAVE A GAP OF APPROXIMATELY 4 INCHES BETWEEN THE CURB AND THE FILTER TO ALLOW FOR OVERFLOW TO PREVENT HAZARDOUS PONDING.
5. INSTALL OUTLET PROTECTION BELOW STORM DRAIN OUTLETS.

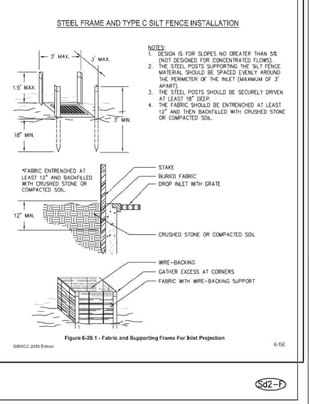
Figure 6-28.6 Curb Inlet Filter "Pigs in Blanket"

6-154 GSWCC 2016 Edition

Sd2-D

FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION

STEEL FRAME AND TYPE C SILT FENCE INSTALLATION



NOTES:
1. DESIGN IS FOR SLOPES NO GREATER THAN 5:1 (NOT DESIGNED FOR CONCENTRATED FLOWS).
2. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART).
3. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
4. THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.

Figure 6-28.1 - Fabric and Supporting Frame For Inlet Projection

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Sd2-D

MULCHING RATES FOR TEMPORARY STABILIZATION

MATERIAL	RATE PER 1000 SQ. FT.	RATE PER ACRE	DEPTH
STRAW OR HAY		2.5 TON/ACRE	6" TO 10"
WOOD WASTE, CHIPS, SAWDUST, BARK		8 to 9 TON/ACRE 1-1 1/2 lbs.	2" TO 3"
CUTBACK ASPHALT	1/4 GAL/SQ. FT.	1200 GAL/ACRE	
POLYETHYLENE FILM		SECURE WITH SOIL, ANCHORS, WEIGHTS	
CUTBACK ASPHALT		SEE MANUFACTURE'S RECOMMENDATIONS	
GEOTEXTILES, JUTE MATTING, NETTING		SEE MANUFACTURE'S RECOMMENDATIONS	

UNUSUAL SITE CONDITION MAY REQUIRED HEAVIER SEEDING RATES.
SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND LOCAL CONDITIONS.

Ds1

MULCHING

SEEDING RATES FOR TEMPORARY SEEDINGS

SPECIES	RATE PER 1000 SQ. FT.	RATE PER ACRE	PLANTING DATES MTS-L*STONE	PIEDMONT	COASTAL
RYE	3 POUNDS	2-3 BU.	8/1-12/1	8/1-1/1	10/1-3/1
RYEGRASS	1 POUND	10-50 LBS.	8/1-11/1	8/1-3/1	8/15-3/1
RYE and ANNUAL LESPEDEZA	1 1/2 POUNDS 1/2 POUND	1 1/2 BU. 20-25 LBS.	8/1-11/1 3/1-4/1	8/1-3/1 3/1-4/1	8/15-3/1 2/1-3/1
WEEPING LOVEGRASS	0.2 POUNDS	4-6 LBS.	3/15-8/1	3/1-8/15	2/15-8/15
SUDANGRASS	1 POUND	30-40 LBS.	4/1-8/1	4/1-7/15	3/1-7/15
BROMATOP					
OATS	1 POUND	30-40 LBS.	4/1-7/1	4/1-7/15	4/1-7/15
WHEAT	3 POUNDS	2-3 BU.	10/1-12/1	10/15-1/1	11/1-1/15

UNUSUAL SITE CONDITION MAY REQUIRED HEAVIER SEEDING RATES.
SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND LOCAL CONDITIONS.

Ds2

TEMPORARY SEEDING

FERTILIZER REQUIREMENTS FOR PERMANENT VEGETATION

TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RAT LBS./ACRE	M TOP DRESSING RATE (LBS./ACRE)
COOL SEASON GRASSES	FIRST	8-12-12	1500	50-100
	SECOND	8-12-12	1000	
	MAINTENANCE	10-10-10	400	30
COOL SEASON GRASSES AND LEGUMES	FIRST	6-12-12	1500	0-30
	SECOND	0-10-10	1000	
	MAINTENANCE	0-10-10	400	
WARM SEASON GRASSES	FIRST	8-12-12	1500	50-100
	SECOND	10-10-10	1000	30-100
	MAINTENANCE	10-10-10	400	
WARM SEASON GRASSES AND LEGUMES	FIRST	6-12-12	1500	50
	SECOND	0-10-10	1000	
	MAINTENANCE	0-10-10	400	

LIME SHALL BE APPLIED AT A RATE OF 1.0-2.0 TONS/ACRE UNLESS DOCUMENT THROUGH SOIL TEST.

Ds3

LIME AND FERTILIZER RATES

SEEDING RATES FOR PERMANENT SEEDINGS

SPECIES	RATE PER 1000 SQ. FT.	RATE PER ACRE	PLANTING DATES MTS-L*STONE	PIEDMONT	COASTAL
BAHIA					
PENSACOLA					
ALONE OR WITH ANNUALS	1.4 LBS.	60 LBS.		4/1-5/31	3/1-5/31
WITH OTHER PERENNIALS	0.7 LBS.	30 LBS.		3/1-5/31	3/1-5/31
MILKINTION					
ALONE OR WITH ANNUALS	1.4 LBS.	60 LBS.	3/15-5/31	4/1-5/31	
WITH OTHER PERENNIALS	1.4 LBS.	60 LBS.	3/15-5/31	4/1-5/31	
COMMON BERMUDAGRASS HULLED SEED					
ALONE OR WITH ANNUALS	0.2 LBS.	10 LBS.		4/1-5/31	3/15-5/31
WITH OTHER PERENNIALS	0.1 LBS.	6 LBS.		4/1-5/31	3/15-5/31
UNHULLED SEED					
ALONE OR WITH ANNUALS	0.2 LBS.	10 LBS.		10/1-2/28	11/1-1/31
WITH OTHER PERENNIALS	0.1 LBS.	6 LBS.		10/1-2/28	11/1-1/31
CROWN VETCH					
ALONE OR WITH ANNUALS	0.2 LBS.	10 LBS.	9/1-10/15	9/1-10/15	
WITH OTHER PERENNIALS	0.2 LBS.	10 LBS.	9/1-10/15	8/1-10/15	
TALL FESCUE					
ALONE	1.1 LBS.	50 LBS.	3/1-4/1	8/15-10/15	
			or 8/15-9/30	or 2/15-4/15	
WITH OTHER PERENNIALS	0.7 LBS.	30 LBS.	3/1-4/1	8/1-10/15	
			or 8/15-9/30	or 2/15-4/15	
SERICA LESPEDEZA					
SCARIFIED SEED	1.4 LBS.	60 LBS.	4/1-5/31	3/15-5/31	3/1-5/15
UNSCARIFIED SEED	1.7 LBS.	75 LBS.	3/1-2/28	3/1-2/28	9/1-2/28
SEED-BEARING HAY	1.36 LBS.	3 tons	10/1-2/1	10/1-2/28	9/15-1/15
AMBRO LESPEDEZA					
SCARIFIED SEED	1.4 LBS.	60 LBS.	4/1-5/31	3/15-5/31	3/1-5/15
UNSCARIFIED SEED	1.7 LBS.	75 LBS.	3/1-2/28	3/1-2/28	9/1-2/28
APPALON LESPEDEZA					
SCARIFIED SEED	1.4 LBS.	60 LBS.	4/1-5/31	3/15-5/31	3/1-5/15
UNSCARIFIED SEED	1.7 LBS.	75 LBS.	3/1-2/28	3/1-2/28	9/1-2/28
WEEPING LOVEGRASS					
SCARIFIED SEED	1.4 LBS.	60 LBS.	4/1-5/31	3/15-5/31	3/1-5/15
UNSCARIFIED SEED	1.7 LBS.	75 LBS.	3/1-2/28	3/1-2/28	9/1-2/28
WEEPING LOVEGRASS					
ALONE	0.1 LBS.	4 LBS.	4/15-5/31	3/15-5/31	3/1-5/31
WITH OTHER PERENNIALS	0.05 LBS.	2 LBS.	4/15-5/31	3/15-5/31	3/1-5/31

UNUSUAL SITE CONDITIONS AMY REQUIRE HEAVIER SEEDING RATES. SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND LOCAL CONDITIONS.

Ds3

PERMANENT SEEDING

SEEDING RATES FOR WET AREA PLANTINGS

SPECIES	RATE PER 1000 SQ. FT.	RATE PER ACRE	PLANTING DATES MTS-L*STONE	PIEDMONT	COASTAL
MAIDENCANE SPRIGS	3" x 3" SPACING		2/1-3/31	2/1-3/31	2/1-3/31
REED CANARY GRASS ALONE	1.1 LBS.	50 LBS.	8/15-10/15	9/1-10/15	
WITH OTHER PERENNIALS	0.7 LBS.	30 LBS.	8/15-10-15	9/1-10/15	
SWITCH GRASS	0.4 LBS.	20 LBS.	4/1-5/31	4/1-5/31	4/1-5/31

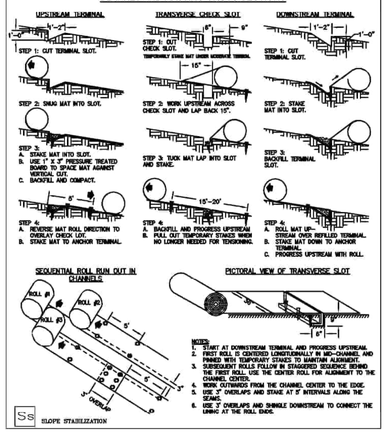
RATES ARE FOR BROADCAST SEED ONLY. IF A SEED DRILL IS USED, REDUCE RATES BY ONE-HALF. UNUSUAL SITE CONDITIONS AMY REQUIRE HEAVIER SEEDING RATES. SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND LOCAL CONDITIONS.

Ds3

PERMANENT SEEDING FOR WET AREAS

TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)

BLANKET AND MATTING CROSS-SECTIONS



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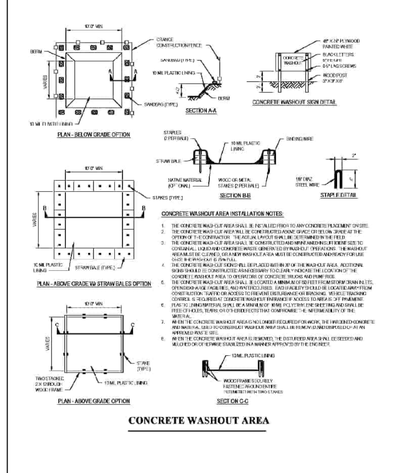
SLOPE STABILIZATION

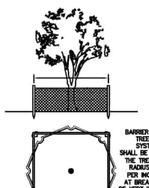


CONCRETE WASHOUT AREA INSTALLATION NOTES:
1. THE CONCRETE WASH OUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
2. THE CONCRETE WASH OUT AREA WILL BE CONSTRUCTED A MINIMUM SIGNAGE DISTANCE OF 50 FEET FROM ANY STORM DRAIN INLET, OPEN DRAINAGE FEATURE, BUFFER ZONE, OR WATER BODY.
3. THE CONCRETE WASH OUT AREA SHALL BE LOCATED ON LEVEL GROUND AT A MINIMUM SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. THE WASHOUT AREA MUST BE CLEARLY LABELED AND KEPT AVAILABLE AT ALL TIMES. A SIGN MUST BE CONSTRUCTED AND POSTED FOR CLEAR AND VISIBLE IDENTIFICATION.
4. THE CONCRETE WASH OUT AREA SHALL BE EXCAVATED BELOW GRADE TO ALLOW ADDITIONAL VOLUME FOR WASHWATER AND RAINFALL. ADDITIONAL WASHWATER IS TO BE CONTAINED AND DISPOSED OF PROPERLY. THE EXCAVATED MATERIAL SHALL BE PLACED DOWNHILL OF THE WASHOUT AREA AS AN EARTHEN BERM TO ENCAPSULATE AND REINFORCE THE SIDES. THE EXCAVATED MATERIAL SHALL BE STOCKPILED ON THE UPHILL SIDE OF THE WASHOUT AREA.
5. THE CONCRETE WASH OUT AREA SHALL BE LOCATED A MINIMUM OF 50 FEET FROM STORM DRAIN INLETS, OPEN DRAINAGE FEATURES, AND PROPERTY LINES. EACH FACILITY SHOULD BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OR ACCESS AREAS TO PREVENT DISTURBANCE OR TRACKING OF FRESH CONCRETE. SIGNS SHALL BE INSTALLED ADJACENT TO THE WASHOUT AREA TO ENSURE PROPER USE AND LOCATION. ADDITIONAL SIGNS MAY BE PLACED THROUGHOUT THE CONSTRUCTION SITE TO DIRECT CONCRETE TRUCKS TO THE WASHOUT AREA.
6. PLASTIC LINING MATERIAL SHALL BE A MINIMUM OF 10 MIL IN THICKNESS. THE PLASTIC LINING MATERIAL SHALL BE PROPERLY SECURED AND SHALL HAVE SUFFICIENT STRENGTH TO PREVENT FAILURE DUE TO EARTH PRESSURES, SLIPPING, COLLAPSE, OR RUPTURING. ALL PLASTIC LINING MATERIALS SHALL BE PLACED IN A MANNER THAT PREVENTS FLOW OR WASHOUT THROUGH ANCHOR TRENCHES, AND PLACED WITH SUFFICIENT QUANTITY TO PREVENT CONTACT WITH THE UNDERLYING GROUND, AND WITHOUT INTERMEDIATE JOINTS OR PERFORATIONS. ALL PLASTIC LINING MATERIALS SHALL BE PLACED FREE OF TEARS, PUNCTURES, OR OTHER DAMAGE PRIOR TO, DURING, AND AFTER INSTALLATION.
7. ALL CONCRETE WASHOUT AREAS SHALL BE MAINTAINED IN A MANNER THAT PREVENTS STORMWATER POLLUTION DURING AND AFTER CONSTRUCTION. ALL CONCRETE WASHOUT AREAS SHALL BE INSPECTED DAILY TO ENSURE PROPER USE OF THE FACILITY. WHEN THE WASHOUT AREA IS APPROXIMATELY 75% FULL OF CONCRETE WASTE, IT SHALL BE CLEANED OUT AND THE CONCRETE WASTE DISPOSED OF PROPERLY. ALL CONCRETE WASTE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH STATE AND LOCAL REGULATIONS.
8. ANY SPILLS OF CONCRETE WASTE OUTSIDE OF THE DESIGNATED WASHOUT AREA SHALL BE IMMEDIATELY CLEANED UP AND DISPOSED OF PROPERLY.
9. ON COMPLETION OF THE PROJECT, THE CONCRETE WASHOUT AREA SHALL BE DISMANTLED AND REMOVED. ALL CONCRETE WASTE SHALL BE DISPOSED OF PROPERLY. THE AREA SHALL BE BACKFILLED AND GRADED TO MATCH THE SURROUNDING GRADE. THE AREA SHALL BE STABILIZED WITH SEED AND MULCH.

CONCRETE WASHOUT AREA

TREE PROTECTION

CHAIN LINK FENCE DETAIL



BARRIER CONSTRUCTED TO PROTECT TREE TRUNK, CROWN, AND ROOT SYSTEM FROM INJURY. BARRIERS SHALL BE LOCATED AT THE LIMITS OF THE TREE'S CRITICAL ROOT ZONE (A RADIUS OF ONE AND A HALF FEET PER INCH OF THE TREE'S DIAMETER AT BREAST HEIGHT). BARRIER SHALL BE KEPT IN GOOD CONDITION FOR THE DURATION OF THE PROJECT AND IS TO REMAIN IN PLACE UNTIL THE NOTICE OF TERMINATION.

FOR ADDED PROTECTION:
–PROVIDE 4" DEEP ORGANIC MULCH OVER ANY UNPROTECTED ROOT ZONE.
–PROVIDE TEMPORARY IRRIGATION WHERE PRACTICAL AND FEASIBLE.

Tr

Filter Ring (Fr)



DEFINITION
A temporary stone barrier constructed at storm drain inlets and pond outlets.

PURPOSE
This structure reduces flow velocities, preventing the failure of other sediment control devices. It also helps prevent sediment from leaving the site or entering drainage systems, prior to permanent stabilization of the disturbed area.

CONDITIONS
Filter rings shall be used in conjunction with other sediment control measures, except where other practices defined in this Manual are not appropriate (such as inlets to concrete flumes). They can be installed at or around devices such as inlet sediment traps, temporary downdrain inlets, and detention pond retrofits to provide additional sediment filtering capacity.

DESIGN CRITERIA
Formal design is not required. The following standards shall be used.

Location
The filter ring shall surround all sides of the structure receiving runoff from disturbed areas. It should be placed a minimum of four feet from the structure. The ring is not intended to substantially impound water, causing flooding or damage to adjacent areas.

The filter ring may also be placed below storm drains discharging into detention ponds, creating a centralized area, or "forebay", for sediment accumulation. This provides for easier, more localized clean-out of the pond. If utilized above a retrofit structure, it should be a minimum of 8 to 10 feet from the retrofit.

Stone Size
When utilized at inlets with diameters less than 12 inches, the filter ring shall be constructed of stone no smaller than 3-5 inches (15 - 30 lbs.).

When utilized at pipes with diameters greater than 12 inches, the filter ring shall be constructed of stone no smaller than 10-15 inches (60 - 100 lbs.).

The larger stone can be faced with smaller filter stone on the upstream side for added sediment filtering capabilities. However, the smaller filter stone is more prone to clogging, requiring higher maintenance.

Height
The filter ring shall be constructed at a height no less than two feet from grade.

CONSTRUCTION SPECIFICATIONS
Mechanical or hand placement of stone shall be required to uniformly surround the structure to be supplemented. Refer to Appendix C for rock riprap specifications.

The filter ring may be constructed on natural ground surface, on an excavated surface, or on machine compacted fill.

A common failure of a filter ring is caused by placing it too close to or too high above the structure it is enhancing. When utilized inside a storm drain outlet, it shall be placed such that it does not create a condition causing water to back-up into the storm drain and inhibit the function of the storm drain system.

MAINTENANCE
The filter ring must be kept clear of trash and debris. This will require continuous monitoring and maintenance, which includes sediment removal when one-half full. Structures are temporary and should be removed when the land-disturbing project has been stabilized.

5-109

Fr

STONE FILTER RING

PERSPECTIVE VIEW

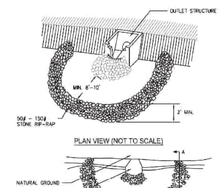


Figure 6-20.1

GSWCC 2016 Edition 6-110

Rock Filter Dam (Rd)



DEFINITION
A temporary stone filter dam installed across drainageways or in conjunction with a temporary sediment trap.

PURPOSE
This structure is installed to serve as a sediment filtering device in drainageways or outlets for sediment traps (**See Temporary Sediment Trap - Sd4**). In some cases, it may also reduce the velocity of stormwater flow through a channel. This structure is not intended to substantially impound water.

CONDITIONS
This practice is applicable for use in small channels that drain 50 acres or less. The rock filter dam must be used in conjunction with other appropriate sediment control measures to reduce the amount of sediment leaving the channel.

DESIGN CRITERIA
The following standards shall be followed:

Drainage Area
The drainage area to the dam shall not exceed 50 acres.

Height
The dam should not be higher than the channel banks or exceed the elevation of the upstream property line. The center of the rock dam should be at least nine inches lower than the outer edges of the dam at the channel banks.

Side Slopes
The side slopes shall be 2:1 or flatter.

Location
The dam shall be located as close to the source of sediment as possible and so that it will not cause water to back up on upstream adjacent property or into state waters.

Stone Size
The stone size shall be determined by the design criteria established in **Riprap - Appendix C.** The rock dam can be faced with smaller stone on the upstream side for additional filtering effect. However, this may make the dam more prone to clogging.

Top Width
The width accross the top of the dam should be no less than six feet.

Geotextile
Geotextiles should be used as a separator between the graded stone, the soil base, and the abutments. The geotextile will prevent the migration of soil particles from the subgrade into the graded stone. The geotextile shall be specified in accordance with AASHTO M288-06 Section 8, *Geotextile Property Requirements*. The geotextile should be placed immediately adjacent to the subgrade without any voids and extend five feet beyond the downstream toe of the dam to prevent scour.

CONSTRUCTION SPECIFICATIONS
Mechanical or hand placement will be required to insure that the rock dam extends completely across the channel and securely ties into both channel banks. The center of the dam must be no less than nine inches lower than the lowest side, to serve as a type of weir. Gabions can be installed to serve as rock filter dams, but should follow recommended sizing and installation specifications. Refer to specification **Ga - Gabion**. See Figure 6-24.1

MAINTENANCE
Rock dams should be removed once disturbed areas have been stabilized. Periodic inspection and required maintenance must be provided. Sediment shall be removed when it reaches a depth of one-half of the original height of the dam.

5-123

Rd

ROCK FILTER DAM

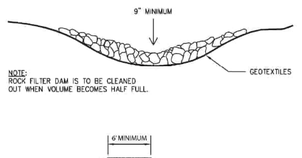


Figure 6-24.1

GSWCC 2016 Edition 5-125

Sd4-C

TEMPORARY SEDIMENT TRAP

COURTESY OF CITY OF KNOXVILLE EMP EROSION AND SEDIMENT

ROCK OUTLET

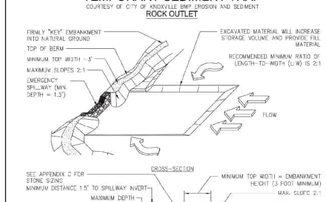
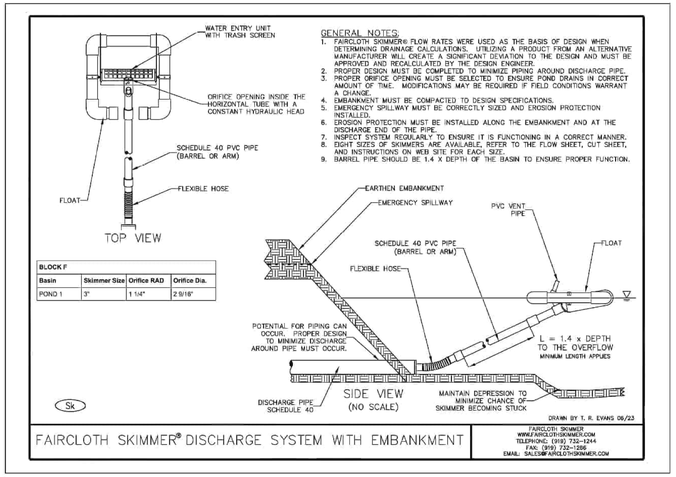


Figure 6-30.3

6-169 GSWCC 2016 Edition



BLOCK F			
Basin	Skimmer Size	Orifice RAD	Orifice Dia.
POND 1	3"	1 1/4"	2 9/16"

GENERAL NOTES:
1. FAIRCLOTH SKIMMER® FLOW RATES WERE USED AS THE BASIS OF DESIGN WHEN DETERMINING DRAINAGE CALCULATIONS. UTILIZING A PRODUCT FROM AN ALTERNATIVE MANUFACTURER WILL CREATE A SIGNIFICANT DEVIATION TO THE DESIGN AND MUST BE APPROVED AND RECALCULATED BY THE DESIGN ENGINEER.
2. PROPER DESIGN MUST BE COMPLETED TO MINIMIZE PIPING AROUND DISCHARGE PIPE.
3. PROPER ORIFICE OPENING MUST BE SELECTED TO ENSURE POND DRAINS IN CORRECT AMOUNT OF TIME. MODIFICATIONS MAY BE REQUIRED IF FIELD CONDITIONS WARRANT A CHANGE.
4. EMBANKMENT MUST BE COMPACTED TO DESIGN SPECIFICATIONS.
5. EMERGENCY SPILLWAY MUST BE CORRECTLY SIZED AND EROSION PROTECTION INSTALLED.
6. EROSION PROTECTION MUST BE INSTALLED ALONG THE EMBANKMENT AND AT THE DISCHARGE END OF THE PIPE.
7. INSPECT SYSTEM REGULARLY TO ENSURE IT IS FUNCTIONING IN A CORRECT MANNER.
8. EIGHT SIZES OF SKIMMERS ARE AVAILABLE, REFER TO THE FLOW SHEET, CUT SHEET, AND INSTRUCTIONS ON WEB SITE FOR EACH SIZE.
9. BARREL PIPE SHOULD BE 1.4 X DEPTH OF THE BASIN TO ENSURE PROPER FUNCTION.

Sk

FAIRCLOTH SKIMMER® DISCHARGE SYSTEM WITH EMBANKMENT

DRAWN BY T. R. EVANS 06/23

FAIRCLOTH SKIMMER
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FAX: (910) 732-1286
EMAIL: SALES@FAIRCLOTHSKIMMER.COM

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATION DESCRIBED HERE-IN BY MYSELF OR MY AUTHORIZED AGENT UNDER MY DIRECT SUPERVISION.

03/17/2026

SANJEEV IRKAL — DATE
LEVEL II CERTIFIED DESIGN PROFESSIONAL
CERTIFICATION NUMBER: #92699

THE PLAN PREPARER OR HIS/HER DESIGNEE HAS BEEN TO THE SITE PRIOR TO THE PREPARATION OF THIS PLAN.

03/17/2026

SIGNATURE — DATE

"THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT AND CERTIFY THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WITHIN 7 DAYS AFTER INSTALLATION." *

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PROJECT

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LL 271, 306
12th DISTRICT, 2nd SECTION

TerraBuild PROJECT NO. E-22005

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03-17-26

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DESIGNED BY JTH
DRAWN BY JTH
CHECKED BY SYI
APPROVED BY SYI
DATE 08-26-2022

REVISIONS

1 09-06-22	CITY COMMENTS	JTH
2 03-29-24	CITY COMMENTS	JTH
3 10-08-24	GSWCC COMMENTS	JTH
4 10-08-24	GWSCC COMMENTS	JTH
5 10-27-25	CITY COMMENTS	JTH
6 2-03-26	CITY COMMENTS	JTH
7 3-17-26	CITY COMMENTS	JTH

DRAWING TITLE

EROSION CONTROL DETAILS

DRAWING NUMBER

C11.01

BUILD • PLAN • DESIGN • MANAGE • ENVISION • TerraBuild USA, Inc.

Dust Control on Disturbed Areas

Du



DEFINITION
Controlling surface and air movement of dust on construction sites, roads, and demolition sites.

PURPOSE
- To prevent surface and air movement of dust from exposed soil surfaces.
- To reduce the presence of airborne substances that may be harmful or injurious to human health, welfare, or safety, or to animals or plant life.

CONDITIONS
This practice is applicable to areas subject to surface and air movement of dust where on and off-site damage may occur without treatment.

METHOD AND MATERIALS

A. Temporary Methods

Mulches. See standard **Ds1 - Disturbed Area Stabilization (With Mulching Only)**. Synthetic resins may be used instead of asphalt to bind mulch material. Refer to specification **Tac – Tackifiers.** Resins should be used according to manufacturer's recommendations.

Vegetative Cover. See specification **Ds2 - Disturbed Area Stabilization (With Temporary Seeding).**

Spray-on Adhesives. These are used on minerals soils (not effective on muck soils). Keep traffic off these areas. Refer to specification **Tac – Tackifiers.**

Tillage. This practice is designed to roughen and bring clods to the surface. It is an emergency measure that should be used before wind erosion starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart, spring-toothed harrows, and similar plows are examples of equipment that may produce the desired effect.

Irrigation. This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet. Repeat as needed.

Barriers. Solid board fences, snowfences, burlap fences, crate walls, bales of hay and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 15 times their height are effective in controlling wind erosion.

Calcium Chloride. Apply at rate that will keep surface moist. May need retreatment.

B. Permanent Methods

Permanent Vegetation. See specification **Ds3 -Disturbed Area Stabilization (With Permanent Vegetation).** Existing trees and large shrubs may afford valuable protection if left in place.

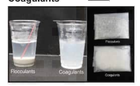
Topsoiling. This entails covering the surface with less erosive soil material. See specification **Tp - Topsoiling.**

Stone. Cover surface with crushed stone or coarse gravel. See specification **Cr-Construction Road Stabilization**.

GSWCC 2016 Edition 6-55

Flocculants Coagulants

Fl-Co



DEFINITION
Flocculants and Coagulants (Fl-Co) are formulated to assist in the solids/liquid separation of suspended particles in solution. Such particles are characteristically very small and the suspended stability of such particles (colloidal complex) is due to both their small size and to the electrical charge between particles. Conditioning a solution to promote the removal of suspended particles requires chemical coagulation and/or flocculation.

A coagulant is required to help give body to the water. Coagulants neutralize the repulsive electrical charges (typically negative) surrounding particles allowing them to "stick together" creating clumps or flocs that form a small to mid-size particles (sometimes called a pin-floc). Once the particles have formed, a second chemical called a flocculant is required to make even larger particles. Flocculants facilitate the agglomeration or aggregation of the coagulated particles to form larger floccules and acts as a net where it gathers up the smaller coagulated particles making a larger particle. This larger particle will slowly drop to the bottom of the container (vessel), forming a sludge.

Coagulation and Flocculation occur in succession order. Firstly the forces stabilizing suspended particles are neutralized allowing particles to meet (coagulate) and secondly, to form larger, heavier flocs (flocculants).

PURPOSE
To settle suspended sediment, heavy metals and hydrocarbons (TSS) in runoff water from construction sites for water clarification.

CONDITIONS
Water clarification and the removal of turbidity will usually require the addition of flocculants, polymers, polyacrylamides (PAM), chitosan and other chemicals that cause soil particles to bind together, become heavy and settle to the bottom of a sediment trap, sediment basin or become entrapped in other BMPs.
This practice is not intended for application to surface waters of the state. It is intended for application within construction storm water ditches and storm drainages that feed into pre-constructed ponds or basins or other BMPs.

Federal and Local Laws
Fl-Co applications shall comply with all federal, local laws, rules or regulations governing Fl-Co. The operator is responsible for securing applicable required permits, if needed. This standard does not contain the text of the federal or local laws governing Flocculants/Coagulants.

Planning Considerations
Since settling of flocculated soil particles requires very slow moving (still) water, chemical additives should never be introduced into an outfall BMP where water leaves the property or enters state waters. In **all** cases where chemical additives are used to reduce turbidity, it is essential to include a sediment basin or sediment trap unless using a "pump and treat" treatment system.

CRITERIA
Application rates shall conform to manufacturer's guidelines for application. Only anionic forms of Fl-Co shall be used.

Following are examples of Fl-Co applications within construction storm water ditches or drainageways that feed into sediment basins or other BMPs:

- Fl-Co Bags or Socs that are installed directly in a ditch, pipe or culvert.
- Fl-Co treated ditch checks (i.e. fiber rolls, wattles, or compost logs inoculated or used in conjunction with Fl-Co).
- Granulated Fl-Co treated rock ditch checks.

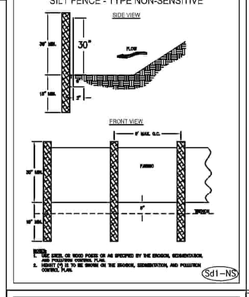
2-17

- Ditch checks with attached Fl-Co Bags or Socs.
- Addition of granular Fl-Co directly into a ditch.
- Erosion control blankets and turf reinforcement mats that have been inoculated with a Fl-Co .
- "Pump and Treat" systems that use mechanical mixing with a chemical treatment of a Fl-Co.

Operation and Maintenance
Application rates shall conform to manufacturer's guidelines for application. Maintenance shall consist of reapplying Fl-Co via one of means above when turbidity levels are no longer met or the Fl-Co is used up. Bricks, blocks, socks,bags and bags shall be maintained when sediment accumulates on the products.

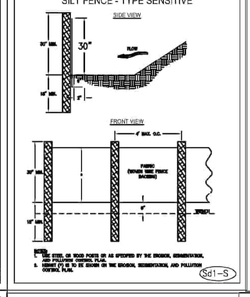
6-58 Fl-Co

SILT FENCE - TYPE NON-SENSITIVE



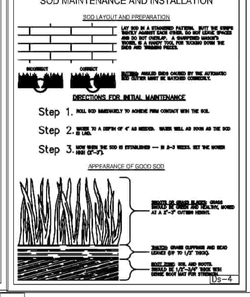
Sd1–NS

SILT FENCE - TYPE SENSITIVE



Sd1–S

SOD MAINTENANCE AND INSTALLATION



Us–4

TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)

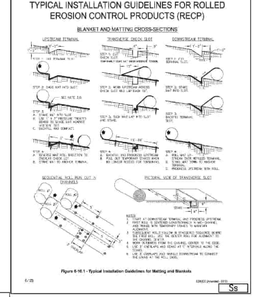
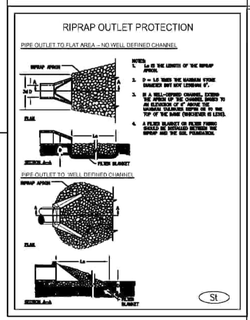


Figure 8-16.1 - Typical Installation Guidelines for Matting and Blankets

Ss

RIPRAP OUTLET PROTECTION



St

24

PROVIDE BMP'S FOR THE REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS.

The Plan must provide BMPs and guidance for the prevention of spills and leaks of petroleum products from any areas where such products are stored or used as well as guidance for the proper remediation of any spills and leaks that do occur. This information can be in the form of a separate Spill Prevention/Spill Response document so long as that information accompanies the Plan.

PROVIDE THE FOLLOWING VERBATIM ON THE ES&PC PLAN:

Spill Cleanup and Control Practices

- Local, State and manufacturer's recommended methods for spill cleanup will be clearly posted and procedures will be made available to site personnel.
- Material and equipment necessary for spill cleanup will be kept in the material storage area. Equipment and materials will include but not be limited to: brooms, dustpans, mops, rags, gloves, goggles, kitty litter, sand, sawdust and properly labeled plastic and metal waste containers.
- Spill prevention practices and procedures will be reviewed after a spill and adjusted as necessary to prevent future spills.
- All spills will be cleaned up immediately upon discovery. All spills will be reported as required by State and Federal regulations.
- FOR SPILLS THAT IMPACT SURFACE WATER (LEAK & SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.
- FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.
- FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS OCCUR, THE GEORGIA E.P.D. WILL BE CONTACTED WITHIN 24 HOURS.
- FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS OCCUR, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

The contractor shall notify the licensed professional who prepared this Plan if more than 1320 gallons of petroleum is stored onsite (this includes capacities of equipment) or if any one piece of equipment has a capacity greater than 660 gallons. The contractor will need a Spill Prevent ion Containment and Countermeasures Plan prepared by the licensed professional.

26

DESCRIBE PRACTICES THAT WILL BE USED TO REDUCE THE POLLUTANTS IN STORM WATER DISCHARGES.

The Plan must identify all potential sources of storm water pollution expected to be present on the site and provide a narrative explaining how the pollutants will be minimized in the storm water discharges.

PROVIDE THE FOLLOWING VERBATIM ON THE PLAN:

Product Specific Practices

Petroleum Based Products – Containers for products such as fuels, lubricants, and tars will be inspected daily for leaks and spills. This includes onsite vehicles and machinery daily inspections and regular preventative maintenance of such equipment. Equipment maintenance sites will be located away from State Waters, natural drains, and storm water drainage inlets. In addition, temporary fueling tarps shall be placed underneath fueling areas to contain any petroleum products for site containment. Garbage (oil rags, fuels, and lubricants) is prohibited. Proper disposal methods will include collection in a suitable container and disposal as required by local and State regulations.

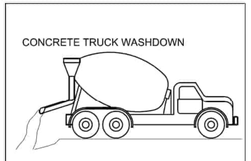
Paints/Concrete/Stucco – All products will be stored in tightly sealed, original containers while not in use. Unused product will not be discharged to the storm water collection system. Excess product, materials used with these products, and product containers will be disposed of according to manufacturer's specifications and recommendations.

Concrete Truck Washing – NO concrete trucks will be allowed to wash out or discharge surplus concrete or drum wash water onsite.

Fertilizer/Herbicides – These products will be applied at rates that do not exceed the manufacturer's specifications or above the guidelines set forth in the crop establishment in or the GSWCC Manual for Erosion and Sediment Control in Georgia. Any salvage of these materials will be under roof in sealed containers.

Building Materials – No building or construction materials will be buried or disposed of onsite. All such material will be disposed of in proper waste disposal procedures.

CONCRETE TRUCK WASHDOWN



1) DESIGNATE WASHDOWN AREA AND EXCAVATE PIT LARGE ENOUGH TO CONTAIN WASHDOWN WATER. THIS MUST BE AWAY FROM STORM DRAINS AND WATERWAYS.

2) ADVISE CONCRETE TRUCK DRIVERS OF THE DESIGNATED WASH-OUT AREAS BEFORE THEY START THE JOB.

3) WASHDOWN CHUTE, HOPPER, AND REAR OF VEHICLE ONLY. DO NOT WASH OUT DRUM ENGINE THAT ALL WASHDOWN WATER STAYS IN PIT.

4) DISPOSE OF SETTLED, HARDENED CONCRETE IN GARBAGE WITH OTHER CONSTRUCTION DEBRIS.

5) NEVER DISPOSE OF WASHDOWN WATER IN TORRETS, STORM DRAINS, OR STREAMS.

Co

CRUSHED STONE CONSTRUCTION EXIT

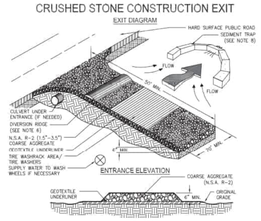


Figure 1. Crushed Stone Construction Exit Installation Requirements

DISTURBED AREA STABILIZATION (WITH SODDING)

Ds4



DEFINITION
A permanent vegetative cover using sods on highly erodible or critically eroded lands.

PURPOSE
- Establish immediate ground cover.
- Reduce runoff and erosion.
- Improve aesthetics and land value.
- Reduce dust and sediments.
- Stabilize waterways, critical areas.
- Filter sediments, nutrients and bugs.
- Reduce downstream complaints.
- Reduce likelihood of legal action.
- Reduce likelihood of work stoppage due to legal action.
- Increase "good neighbor" benefits.

CONDITIONS
This application is appropriate for areas which require immediate vegetative covers, drop inlets, grass swales, and waterways with intermittent flow.

PLANNING CONSIDERATIONS
Sodding can initially be more costly than seeding, but the advantages justify the increased initial costs:

1. Immediate erosion control, green surface, and quick use.
2. Reduced failure as compared to seed as well as the lack of weeds.
3. Can be established nearly year-round.

Sodding is preferable to seed in waterways and swales because of the immediate protection of the channel after application. Sodding must be staked in concentrated flow areas (See Figure 6-6.1).

Consider using sod framed around drop inlets to reduce sediments and maintaining the grade.

CONSTRUCTION SPECIFICATIONS
Soil Preparation
Bring soil surface to final grade. Clear surface of trash, woody debris, stones and clods larger than 1". Apply sod to soil surfaces only and not frozen surfaces, or gravel type soils.

Topsoil properly applied will help guarantee a stand. Don't use topsoil recently treated with herbicides or soil sterilants.

Mix fertilizer into soil surface. Fertilize based on soil tests or Table 6-6.1.

Table 6-6.1 Fertilizer Requirements for Soil Surface Application

Fertilizer Type	Fertilizer Rate (lbs/acre)	Fertilizer Rate (lbs/sq ft)	Season
10-10-10	1000	.025	Fall

Agricultural lime should be applied based on soil tests or at a rate of 1 to 2 tons per acre.

Installation
Lay sod with tight joints and in straight lines. Don't overlap joints. Stagger joints and do not stretch sod (See Figure 6-6.2)

On slopes steeper than 3:1, sod should be anchored with pins or other approved methods. Installed sod should be rolled or tamped to provide good contact between sod and soil.

6-103 Ds–4

Irrigate sod and soil to a depth of 4" immediately after installation.

Sod should not be cut or spread in extremely wet or dry weather. Irrigation should be used to supplement rainfall for a minimum of 2-3 weeks.

MATERIALS
Sod selected should be certified. Sod grown in the general area of the project is desirable.

1. Sod should be machine cut and contain 3/4" (+ or -1/4") of soil, not including shoots or thatch.
2. Sod should be cut to the desired size within + or -5%. Torn or uneven pads should be rejected.
3. Sod should be cut and installed within 36 hours of digging.
4. Avoid planting when subject to frost heave or hot weather, if irrigation is not available.
5. The sod type should be shown on the plans or installed according to Table 6-6.2. See Figure 6-6.1 for your Resource Area.

MAINTENANCE
Re-sod areas where an adequate stand of sod is not obtained. New sod should be mowed sparingly. Grass height should not be cut less than 2"-3" or as specified (See Figure 6-6.2)

Apply one ton of agricultural lime as indicated by soil test or every 4-6 years. Fertilize grasses in accordance with soil tests or Table 6-6.3.

Table 6-6.2 Sod Planting Requirements

Grass	Varieties	Resource Area	Growing Season
Bermudagrass	Common Tifway Tifgreen Tiflawn	M-L,P,C P,C P,C P,C	warm weather
Bahiagrass	Pensacola	P,C	warm weather
Centipede	--	P,C	warm weather
St. Augustine	Common Bitterblue Raleigh	C	warm weather
Zoysia	Emerald Myer	P,C	warm weather
Tall Fescue	Kentucky	M-L,P	cool weather

Table 6-6.3 Fertilizer Requirements for Sod

Types of Species	Planting Year	Fertilizer (N-P-K)	Rate (lbs./acre)	Nitrogen Top Dressing Rate (lbs./acre)
cool season grasses	first second maintenance	6-12-12 6-12-12 10-10-10	1900 1900 400	50-100 - 30
warm season grasses	first second maintenance	6-12-12 6-12-12 10-10-10	1900 800 400	50-100 50-100 30

6-104 GSWCC (Revised 12/15) Ds–4

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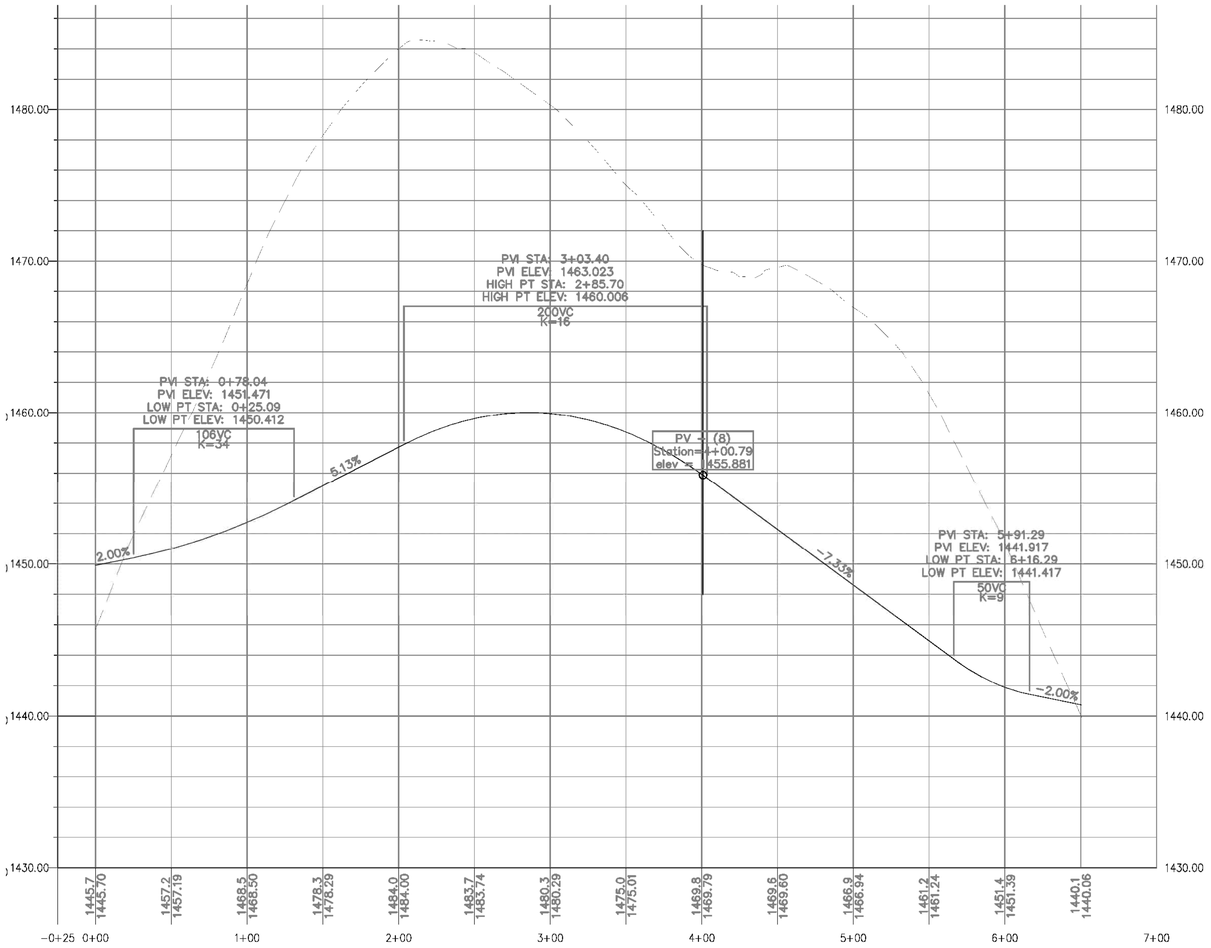

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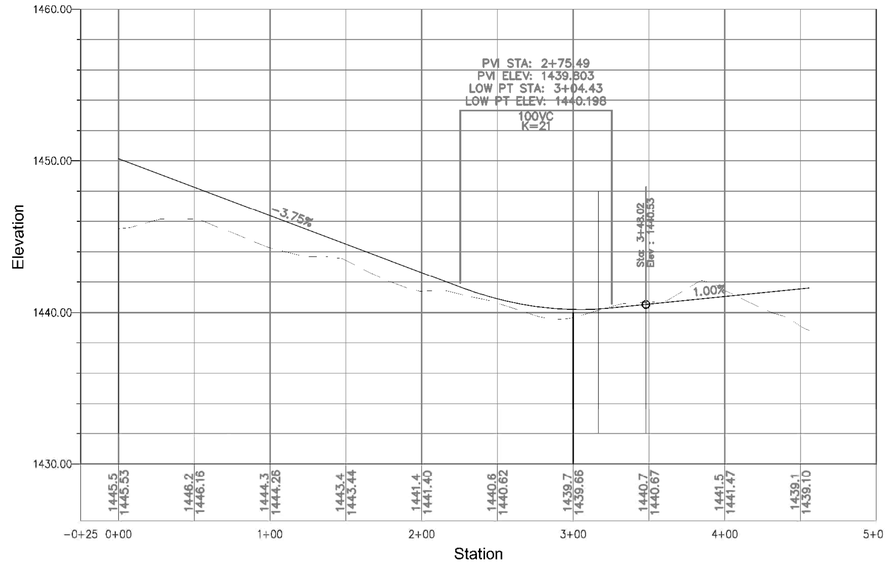

PROFILE DRIVE-A

1"=50'HORIZONTAL
1"=10' VERTICAL

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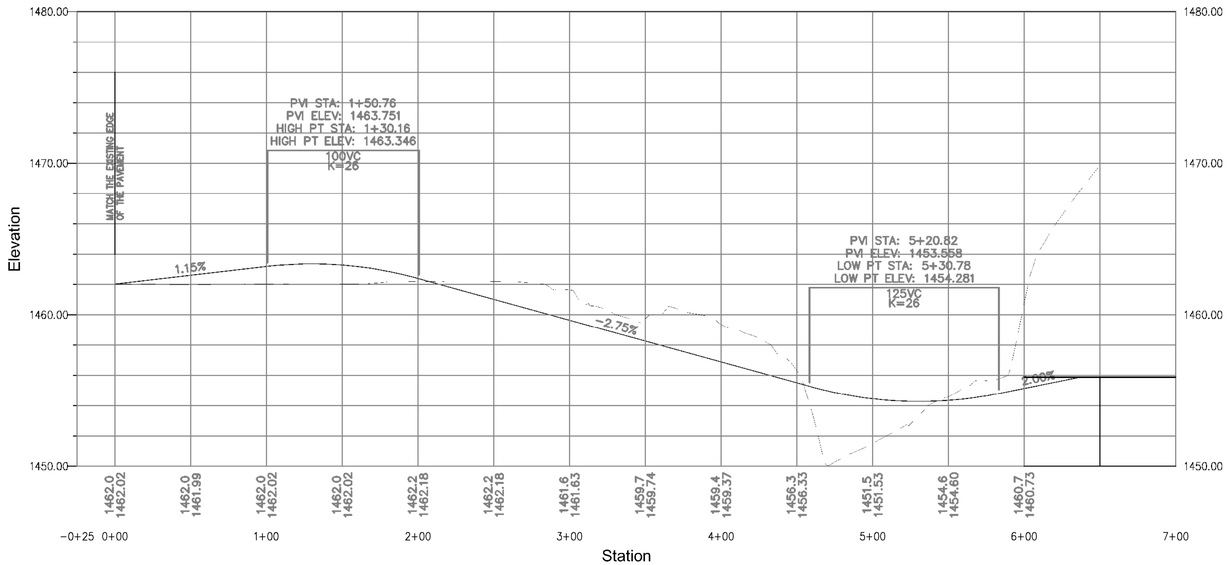

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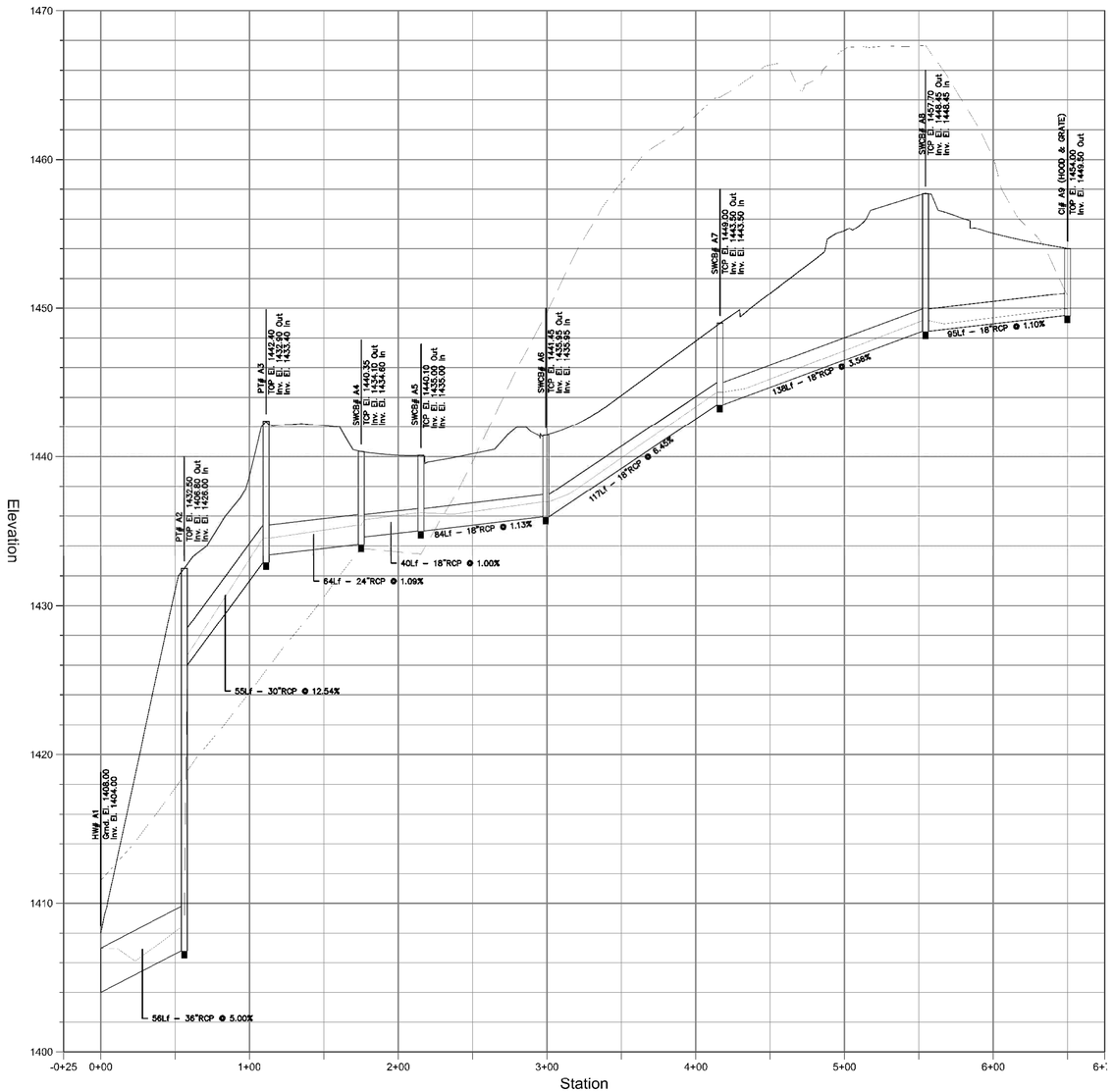
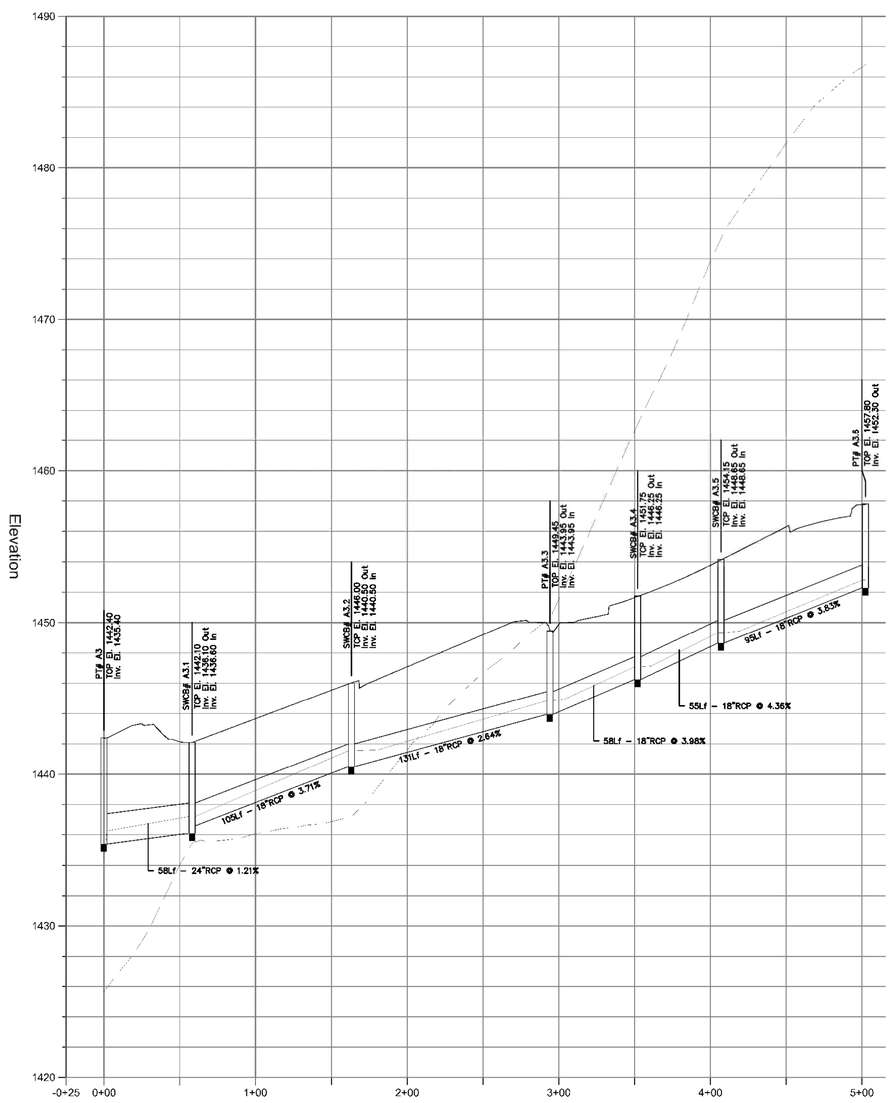


STORM A1 TO A9



STORM A3 TO A3.6

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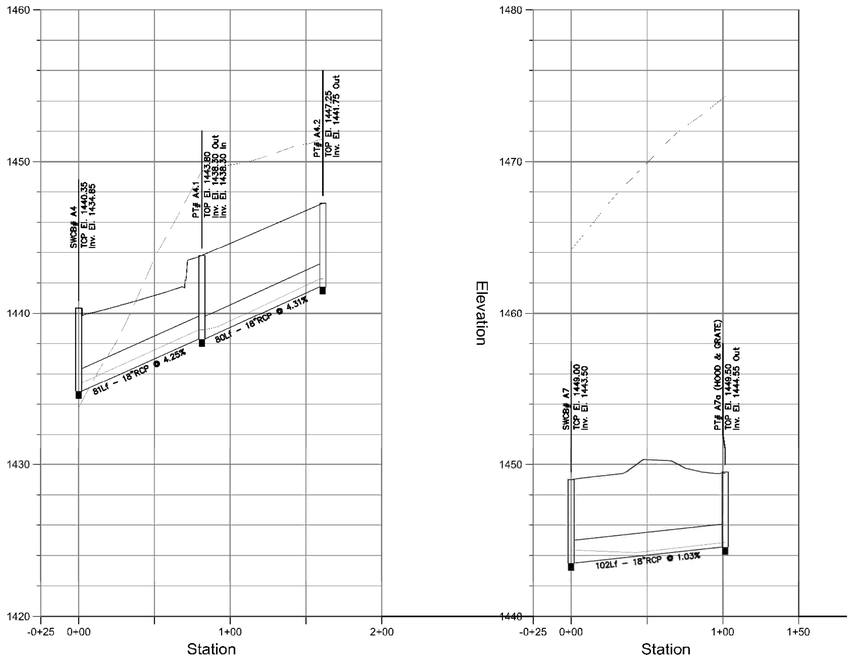
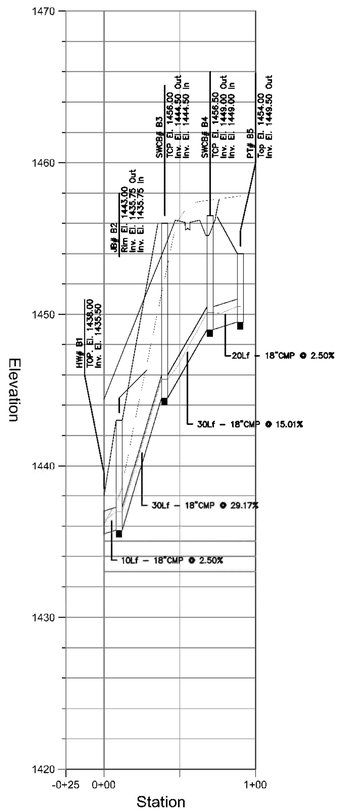
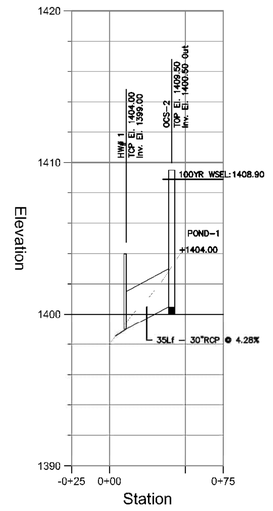


STORM A4 TO A4.2

STORM A7 - A7a



STORM B1 TO B5



STORM OCS-1 TO HW-1

Storm Sewer Tabulation

Page 1

Station		Len	Drng Area		Rnoff coeff	Area x C		Tc		Rain (I)	Total flow	Cap full	Vel	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line	(ft)	Incr (ac)	Total (ac)	(C)	Incr	Total	Inlet (min)	Syst (min)	(in/hr)	(cfs)	(cfs)	(ft/s)	Size (in)	Slope (%)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	
1	End	55	0.36	4.21	0.75	0.27	3.09	5.0	9.6	8.5	26.18	126.0	6.67	36	3.57	1404.00	1406.00	1405.61	1407.65	1408.00	1432.00	A1-A2
2	1	55	0.10	3.86	0.70	0.07	2.82	5.0	9.4	8.5	24.03	146.3	14.45	30	13.73	1429.59	1433.50	1429.19	1434.17	1433.00	1443.00	A2-A3
3	2	62	0.22	2.22	0.75	0.17	1.65	5.0	9.2	8.6	14.13	24.96	6.84	24	1.22	1433.00	1433.75	1434.17	1435.10	1442.00	1440.30	A3-A4
4	3	27	0.53	1.70	0.75	0.40	1.26	5.0	9.1	8.6	10.82	15.58	8.17	18	2.20	1434.25	1434.85	1435.17	1436.11	1440.30	1440.35	A4-A5
5	4	96	0.38	1.17	0.75	0.29	0.86	5.0	8.8	8.7	7.49	11.49	5.17	18	1.20	1434.85	1436.00	1436.11	1437.06	1440.35	1441.50	A5-A6
6	5	117	0.22	0.79	0.75	0.17	0.58	5.0	8.1	8.9	5.11	27.46	4.32	18	6.84	1436.00	1444.00	1437.05	1444.87	1441.50	1449.25	A6-A7
7	6	138	0.27	0.47	0.75	0.20	0.35	5.0	6.9	9.2	3.24	14.13	3.59	18	1.81	1444.00	1446.50	1444.87	1447.18	1449.25	1457.00	A7-A8
8	3	80	0.10	0.30	0.75	0.08	0.23	5.0	6.6	9.3	2.09	16.63	2.55	18	2.51	1434.00	1436.00	1435.10	1436.55	1440.30	1441.50	A4-A4.1
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11	10	95	0.29	1.14	0.75	0.22	0.81	5.0	8.0	8.9	7.19	17.87	7.54	18	2.90	1435.50	1438.25	1436.18	1439.25	1441.00	1443.80	A3.1-A3.2
12	11	146	0.30	0.85	0.75	0.23	0.59	5.0	7.3	9.1	5.39	12.30	4.52	18	1.37	1438.25	1440.25	1439.29	1441.14	1443.80	1445.85	A3.2-A3.3
13	12	99	0.25	0.55	0.75	0.19	0.37	5.0	6.5	9.3	3.43	27.42	3.66	18	6.82	1440.25	1447.00	1441.14	1447.71	1445.85	1452.90	A3.3-A3.4
14	13	88	0.30	0.30	0.60	0.18	0.18	5.0	5.0	9.8	1.77	26.26	2.80	18	6.25	1447.00	1452.50	1447.71	1453.00	1452.60	1458.00	A6.4-A3.5
15	7	96	0.20	0.20	0.75	0.15	0.15	5.0	5.0	9.8	1.47	10.70	2.56	18	1.04	1446.50	1447.50	1447.13	1447.96	1457.00	1452.00	A8-A9
16	9	103	0.19	0.19	0.60	0.09	0.09	5.0	5.0	9.8	0.59	3.47	2.48	12	0.99	1444.50	1449.50	1444.87	1449.82	1449.25	1449.00	A7-A7a
17	End	10	0.00	2.40	0.00	0.00	1.02	0.0	5.3	9.7	9.93	16.59	8.14	18	2.50	1435.50	1435.75	1436.34	1436.96	1438.00	1443.00	B1-B2
18	17	30	0.20	2.40	0.80	0.16	1.02	5.0	5.2	9.8	9.96	56.52	6.50	18	28.97	1435.75	1444.50	1436.96	1445.72	1443.00	1456.00	B2-B3
19	18	30	0.20	2.20	0.80	0.16	0.86	5.0	5.1	9.8	8.43	40.68	5.72	18	15.00	1444.50	1449.00	1445.72	1450.12	1456.00	1456.50	B3-B4
20	19	20	2.00	2.00	0.35	0.70	0.70	5.0	5.0	9.8	6.88	16.62	5.13	18	2.50	1449.00	1449.50	1450.12	1450.52	1456.50	1454.00	B4-B5

Project File: STORM SEWER-REV1.stm | Number of lines: 20 | Run Date: 3/29/2024

NOTES: Intensity = 127.16 / (Inlet time + 17.80) ^ 0.82. Return period =Yrs. 100 ; c = cir e = ellip b = box

Storm Sewers v12.00

(100 YR STORM EVENT)

Inlet Report

Page 1

Line No	Inlet ID	Q = CIA (cfs)	Q carry (cfs)	Q capt (cfs)	Q Byp (cfs)	Junc Type	Curb Inlet		Grate Inlet			Gutter						Inlet			Byp Line No
							Ht (in)	L (ft)	Area (sq ft)	L (ft)	W (ft)	So (ft/ft)	W (ft)	Sw (ft/ft)	Sx (ft/ft)	n	Depth (ft)	Spread (ft)	Depth (ft)	Spread (ft)	Depr (in)	
1	A2	1.88	0.00	1.88	0.00	DrCrb	6.0	12.00	0.00	0.00	0.00	Sag	2.00	0.250	0.050	0.013	0.14	2.86	0.14	2.86	0.0	Off
2	A3	0.51	0.06	0.57	0.00	DrCrb	6.0	12.00	0.00	0.00	0.00	Sag	2.00	0.250	0.050	0.013	0.05	1.26	0.05	1.26	0.0	1
3	A4	1.19	0.29	1.49	0.00	Curb	6.0	12.00	0.00	0.00	0.00	Sag	2.00	0.250	0.020	0.013	0.18	3.98	0.33	5.98	2.0	2
4	A5	2.88	0.00	2.58	0.29	Curb	6.0	12.00	0.00	0.00	0.00	0.020	2.00	0.250	0.020	0.013	0.22	8.11	0.27	2.21	2.0	3
5	A6	2.06	0.03	2.09	0.00	Curb	6.0	12.00	0.00	0.00	0.00	Sag	2.00	0.250	0.020	0.013	0.21	7.51	0.38	7.51	2.0	4
6	A7	1.19	0.00	1.17	0.03	Curb	6.0	12.00	0.00	0.00	0.00	0.070	2.00	0.250	0.020	0.013	0.14	3.87	0.20	3.69	2.0	5
7	A8	1.47	0.00	1.47	0.00	Curb	6.0	12.00	0.00	0.00	0.00	Sag	3.00	0.250	0.020	0.013	0.19	5.92	0.19	5.92	3.0	8
8	A4.1	0.54	0.00	0.54	0.00	DrCrb	6.0	12.00	0.00	0.00	0.00	Sag	2.00	0.250	0.050	0.013	0.09	1.22	0.09	1.22	0.0	3
9	A4.2	1.09	0.00	1.09	0.00	DrCrb	6.0	12.00	0.00	0.00	0.00	Sag	2.00	0.250	0.050	0.013	0.10	1.94	0.10	1.94	0.0	8
10	A3.1	2.12	0.00	2.05	0.06	Curb	6.0	12.00	0.00	0.00	0.00	0.020	2.00	0.250	0.020	0.013	0.20	7.09	0.23	1.17	2.0	2
11	A3.2	1.57	0.00	1.57	0.00	Curb	6.0	12.00	0.00	0.00	0.00	0.020	2.00	0.250	0.020	0.013	0.18	6.19	0.17	0.00	2.0	10
12	A3.3	1.63	0.06	1.69	0.00	Curb	6.0	12.00	0.00	0.00	0.00	Sag	2.00	0.250	0.020	0.013	0.19	6.52	0.36	6.52	2.0	11
13	A3.4	1.36	0.00	1.29	0.06	Curb	6.0	12.00	0.00	0.00	0.00	0.070	2.00	0.250	0.020	0.013	0.14	4.16	0.21	3.93	2.0	12
14	A3.5	1.30	0.00	1.30	0.00	DrCrb	6.0	12.00	0.00	0.00	0.00	Sag	2.00	0.250	0.050	0.013	0.11	2.19	0.11	2.19	0.0	13
15	A9	1.09	0.00	1.09	0.00	Curb	6.0	12.00	0.00	0.00	0.00	Sag	2.00	0.250	0.020	0.013	0.16	4.85	0.32	4.85	2.0	7
16	A7a	0.43	0.00	0.43	0.00	DrCrb	6.0	12.00	0.00	0.00	0.00	Sag	2.00	0.250	0.050	0.013	0.05	1.05	0.05	1.05	0.0	8
17	B2	0.00	0.25	0.00	0.25	MH	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.013	0.013	0.00	0.00	0.00	0.00	0.0	Off
18	B3	1.16	0.17	1.08	0.25	Curb	4.0	12.00	0.00	0.00	0.00	0.025	2.00	0.250	0.020	0.013	0.17	5.41	0.09	1.87	0.0	17
19	B4	1.16	0.00	0.99	0.17	Curb	4.0	12.00	0.00	0.00	0.00	0.025	2.00	0.250	0.020	0.013	0.16	5.04	0.08	1.64	0.0	18
20	B5	5.07	0.00	5.07	0.00	DrCrb	4.0	12.00	0.00	0.00	0.00	Sag	2.00	0.250	0.050	0.013	0.27	5.41	0.27	5.41	0.0	19

Project File: STORM SEWER-REV1.stm | Number of lines: 20 | Run Date: 3/29/2024

NOTES: Inlet N-Values = 0.016; Intensity = 88.24 / (Inlet time + 15.50) ^ 0.83. Return period = 10 Yrs. ; * Indicates Known Q added. All curb inlets are Horiz throat.

Storm Sewers v12.39

(GUTTER SPREAD CALCULATIONS)

1"=50'HORIZONTAL
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03-17-26

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CHECKED BY SYI

APPROVED BY SYI

DATE 08-26-2022

REVISIONS

1 09-06-22	CITY COMMENTS	JTH
2 05-26-23	CITY COMMENTS	JTH
3 03-29-24	CITY COMMENTS	JTH
4 03-24-25	CITY COMMENTS	JTH
5 2-03-26	CITY COMMENTS	JTH
6 3-17-26	CITY COMMENTS	JTH

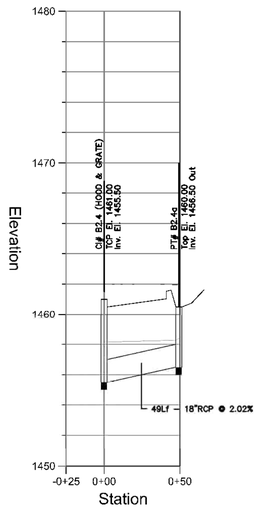
DRAWING TITLE

STORM PROFILES

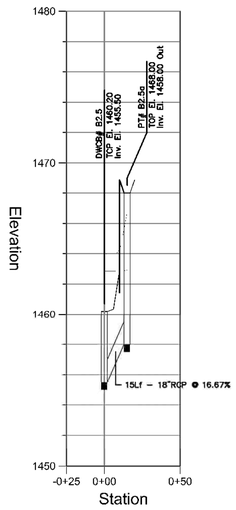
DRAWING NUMBER

C13.03

BUILD ◦ MANAGE ◦ TerraBuild USA, Inc.
ENVISION ◦ PLAN ◦ DESIGN ◦



STORM B2.4 TO B2.4a



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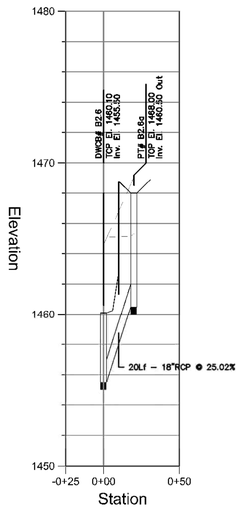
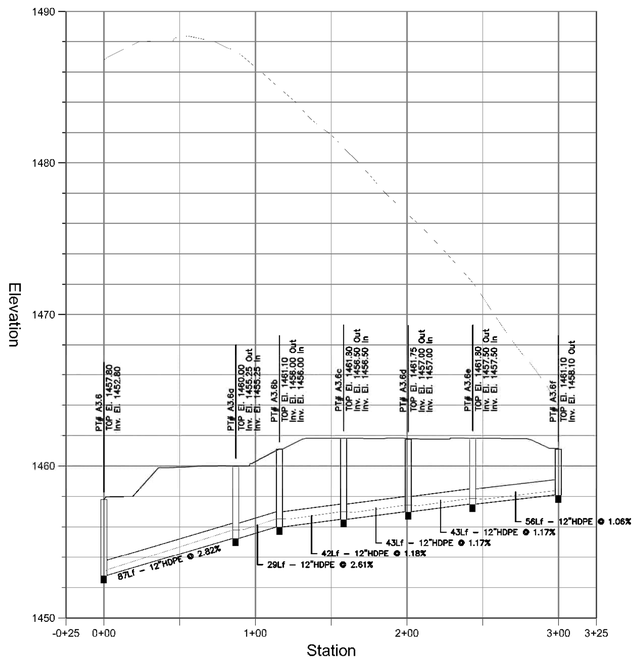


STORM B2.6 TO B2.6a



STORM A3.6-A3.6f

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1"=10' VERTICAL

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APPROVED BY SYI

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REVISIONS

1	05-26-23 CITY COMMENTS	JTH
2	03-24-25 CITY COMMENTS	JTH
3	2-03-26 CITY COMMENTS	JTH
4	3-17-26 CITY COMMENTS	JTH

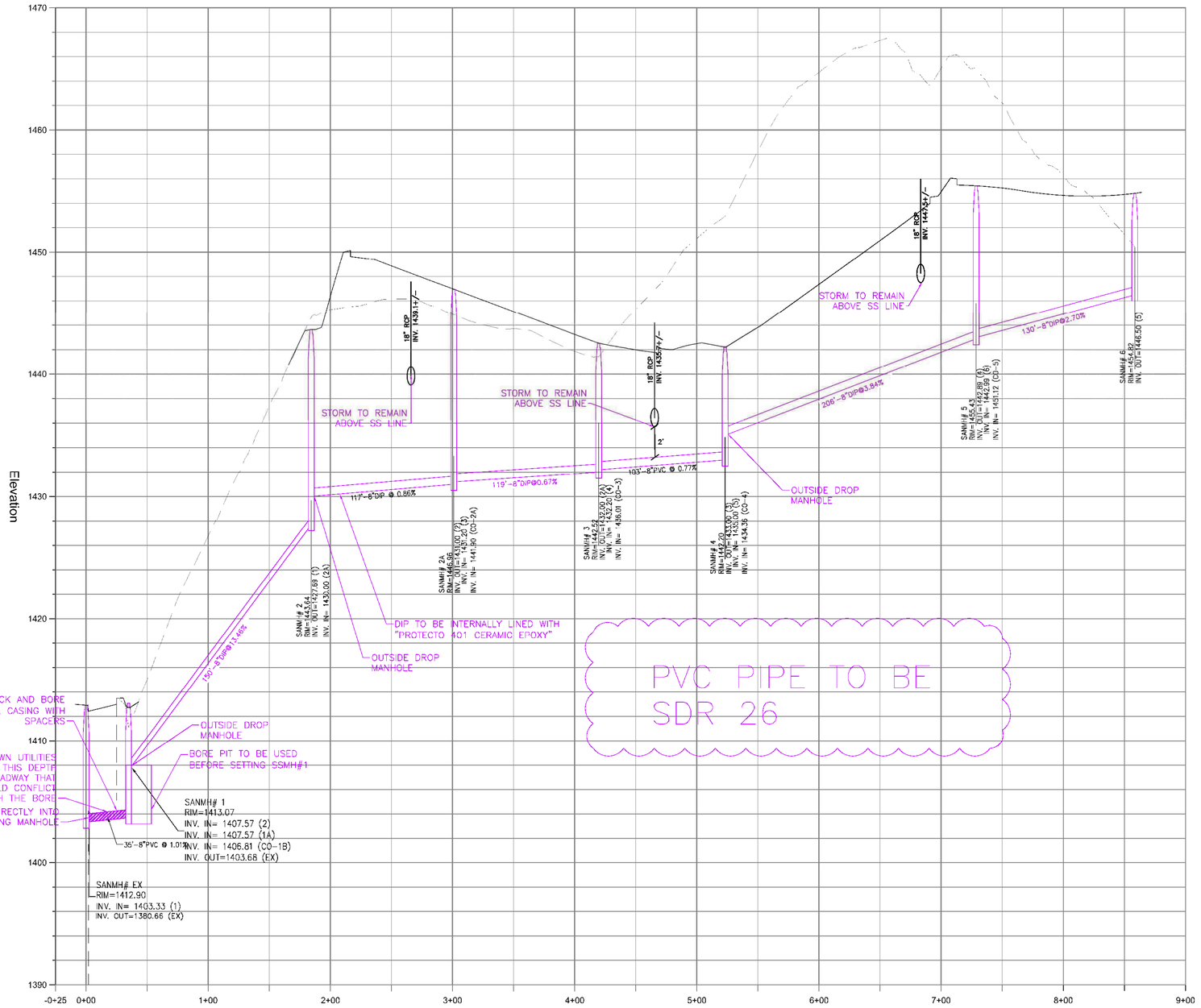
DRAWING TITLE

STORM PROFILES

DRAWING NUMBER

C13.04

BUILD ○ MANAGE ○ TerraBuild USA, Inc.
ENVISION ○ PLAN ○ DESIGN ○



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1"=10' VERTICAL

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REVISIONS

1	05-26-23 CITY COMMENTS	JTH
2	05-29-24 CITY COMMENTS	JTH
3	03-24-25 CITY COMMENTS	JTH
4	05-12-25 CITY COMMENTS	JTH
5	09-18-25 CITY COMMENTS	JTH
6	09-18-25 CITY COMMENTS	JTH
7	10-27-25 CITY COMMENTS	JTH
8	2-05-26 CITY COMMENTS	JTH
9	3-17-26 CITY COMMENTS	JTH

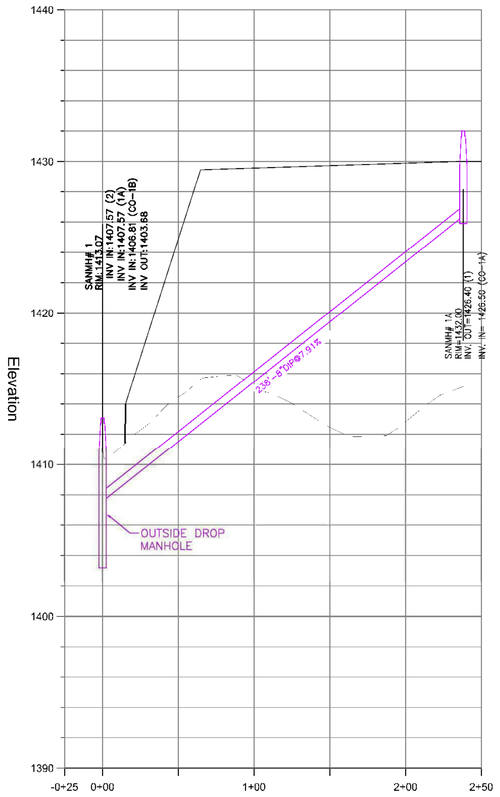
DRAWING TITLE

SANITARY PROFILES

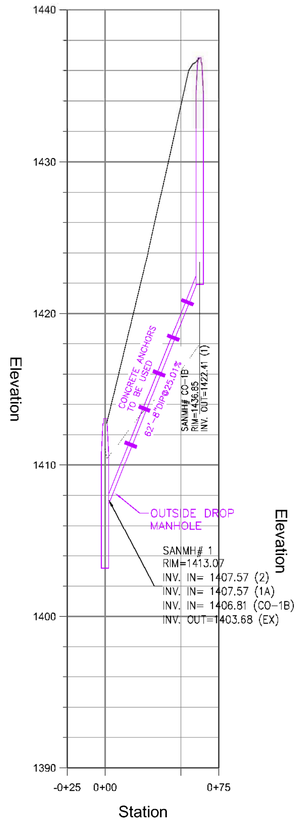
DRAWING NUMBER

C14.01

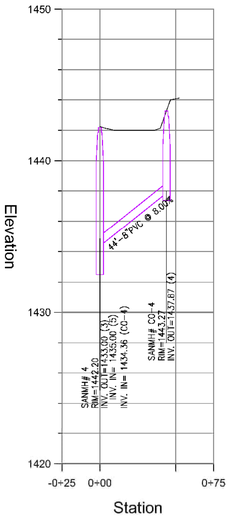
ENVISION o PLAN o DESIGN o BUILD o MANAGE o TerraBuild USA, Inc.



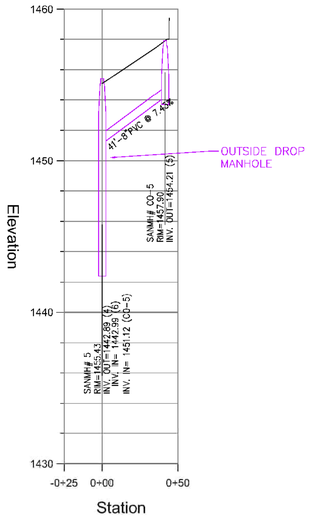
SANITARY SEWER
SANMH# 1 TO SANMH# 1A



SANITARY SEWER
1 TO CO-1B



SANITARY SEWER
4 TO CO-4



SANITARY SEWER
5 TO CO-5

SANITARY SEWER
1A TO CO-1A

SANITARY SEWER
2A To CO

SANITARY SEWER
3 TO CO

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3	05-26-23 CITY COMMENTS	JTH
4	03-29-24 CITY COMMENTS	JTH
5	03-24-25 CITY COMMENTS	JTH
6	05-12-25 CITY COMMENTS	JTH
7	09-18-25 CITY COMMENTS	JTH
8	10-27-25 CITY COMMENTS	JTH
9	2-03-26 CITY COMMENTS	JTH
10	3-17-26 CITY COMMENTS	JTH

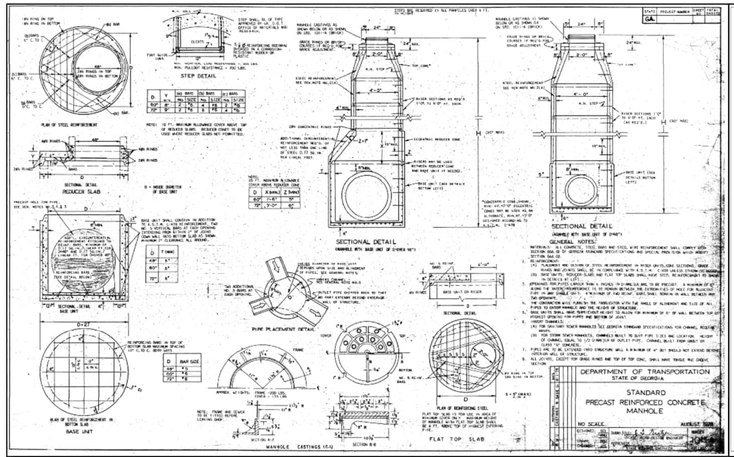
DRAWING TITLE

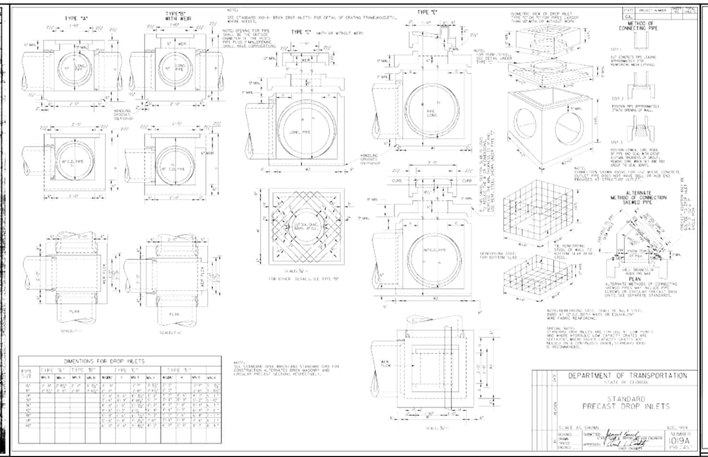
SANITARY PROFILES

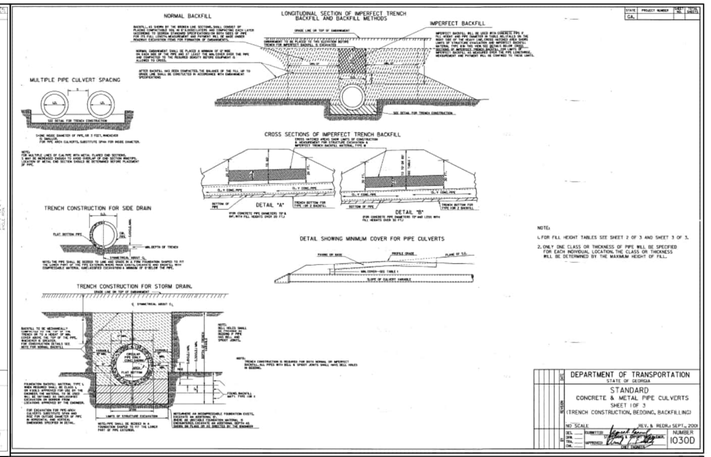
DRAWING NUMBER

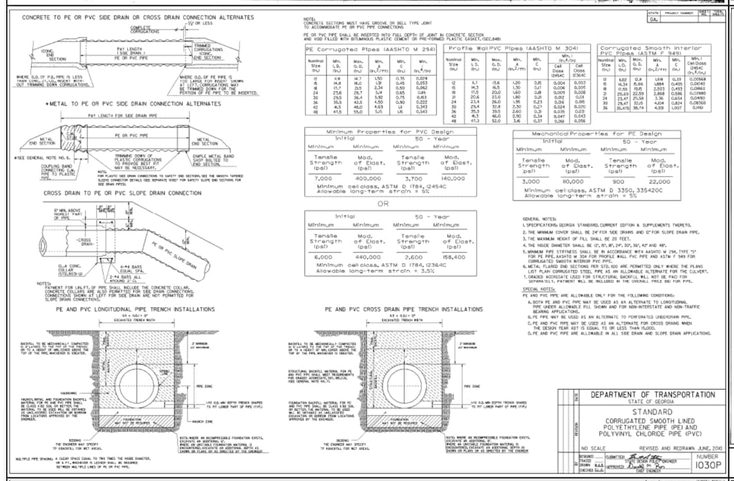
C14.02

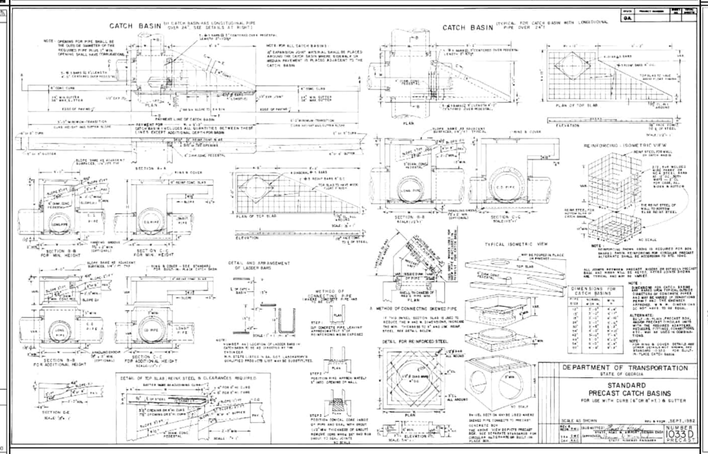
BUILD ◦ MANAGE ◦ PLAN ◦ DESIGN ◦ ENVISION ◦ TerraBuild USA, Inc.

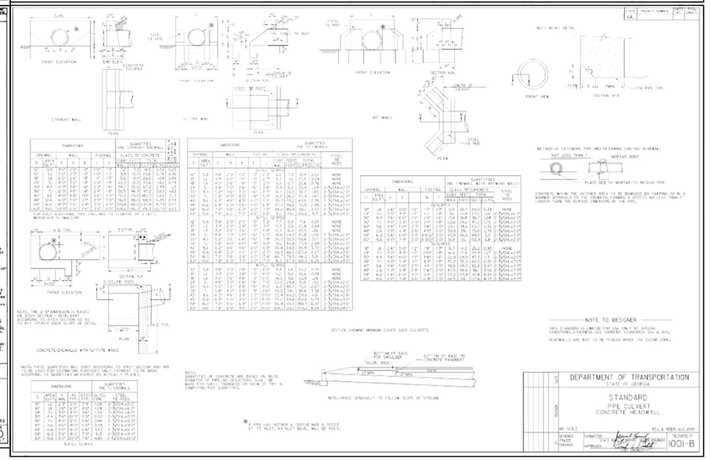


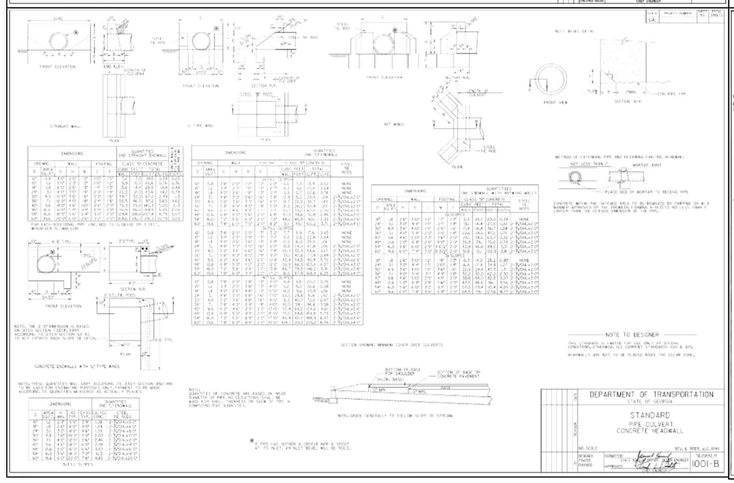


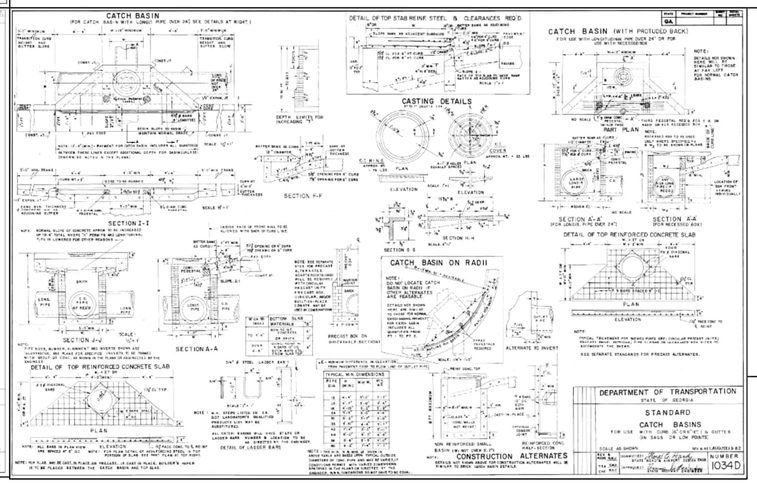


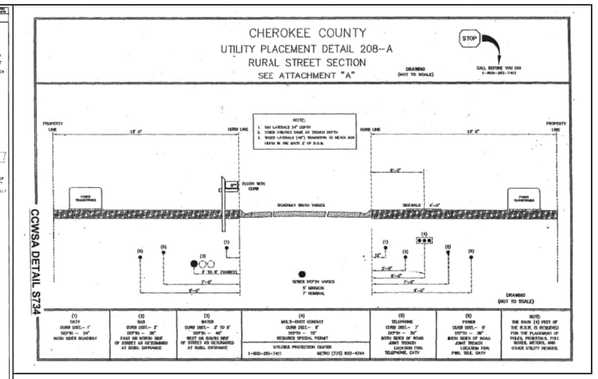












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DATE 08-26-2022

REVISIONS

1	09-06-22	CITY COMMENTS	JTH
2	03-29-24	CITY COMMENTS	JTH
3	03-24-25	CITY COMMENTS	JTH
4	10-27-25	CITY COMMENTS	JTH
5	2-03-26	CITY COMMENTS	JTH
6	3-17-26	CITY COMMENTS	JTH

DRAWING TITLE

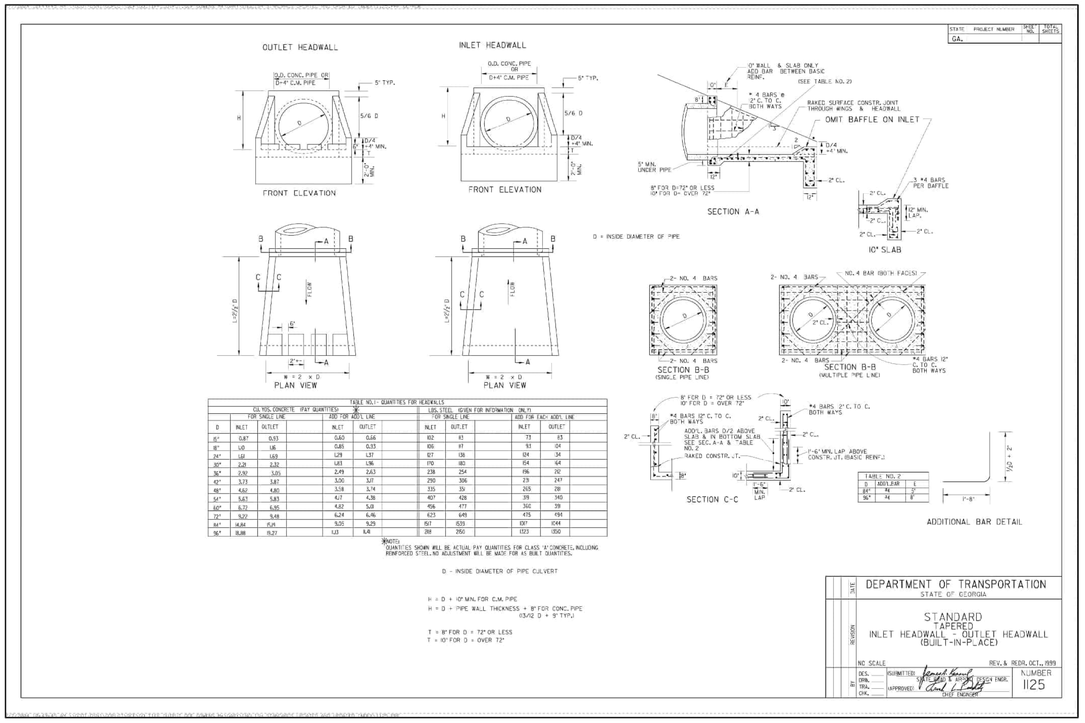
CONSTRUCTION DETAILS

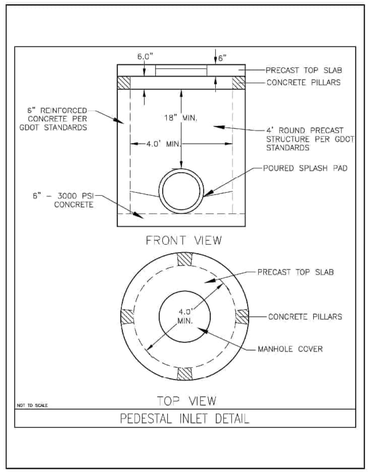
DRAWING NUMBER

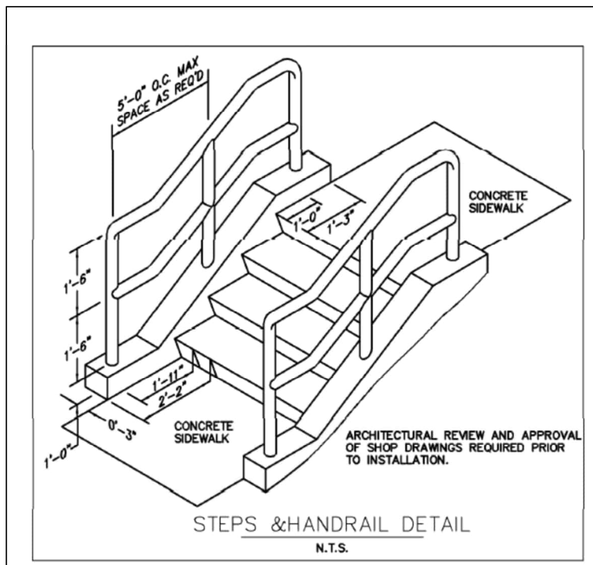
C15.01

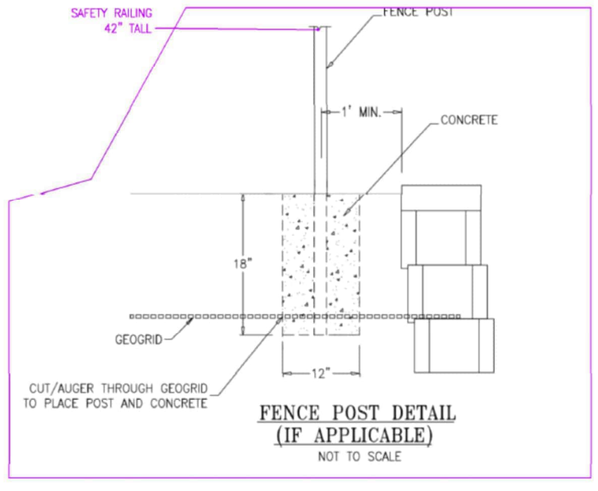
BUILD ○ MANAGE ○ TerraBuild USA, Inc.

ENVISION ○ PLAN ○ DESIGN ○









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COOKEVILLE, TENNESSEE
38501

PROJECT

CHAMBERS STREET APARTMENTS

LL 271, 306
12th DISTRICT, 2nd SECTION

TerraBuild PROJECT NO. E-22005

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03-17-26

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DESIGNED BY JTH

DRAWN BY JTH

CHECKED BY SYI

APPROVED BY SYI

DATE 08-26-2022

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2	03-29-24	CITY COMMENTS	JTH
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DRAWING TITLE

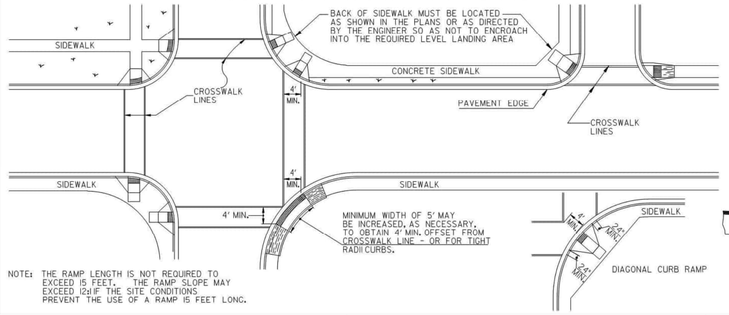
CONSTRUCTION DETAILS

DRAWING NUMBER

C15.02

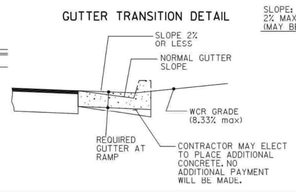
BUILD ○ MANAGE ○ PLAN ○ DESIGN ○ ENVISION ○ TerraBuild USA, Inc.

TYPICAL LOCATIONS FOR CURB CUT RAMPS - PLAN VIEW



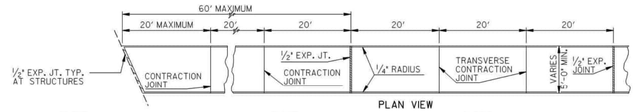
NOTE: THE RAMP LENGTH IS NOT REQUIRED TO EXCEED 15 FEET. THE RAMP SLOPE MAY EXCEED 12:1 IF THE SITE CONDITIONS PREVENT THE USE OF A RAMP 15 FEET LONG.

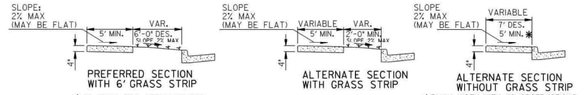
GUTTER TRANSITION DETAIL



CONCRETE SIDEWALK DETAILS

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			





NOTES FOR CONCRETE SIDEWALK:

A. CONCRETE TO BE PLACED 4"THICK AND FINISHED WITH TAMPS, WOOD FLOATS AND STIFF-BRISTLE BROOMS.
B. TRANSVERSE CONTRACTION JOINTS SHALL BE PLACED AT 20 FT. INTERVALS. ALL EDGES TO BE ROUNDED TO 1/4"RADIUS.
C. 1/2" EXPANSION JOINTS SHALL BE PLACED, WHERE SIDEWALK TIE INTO A STRUCTURE OR TERMINATE AT CURB, RAMPS OR DRIVEWAYS AND AT 60' INTERVALS.

NOTES FOR CURB CUT RAMPS:

1. CURB CUT RAMPS WILL BE LOCATED AS FOLLOWS UNLESS PLANS OR CONTRACT SPECIFY OTHERWISE.
   a) AT ALL PEDESTRIAN CROSSWALKS WHERE CURB IS CONSTRUCTED OR REPLACED.
   b) WHERE THE SIDEWALK, CONCRETE OR UNPAVED, IS INTERRUPTED BY THE CURB AT TURNOUTS OR AT INTERSECTIONS.
   c) AT OTHER LOCATIONS SUCH AS HOSPITALS, NURSING HOMES, REST AREAS, ETC.. WHERE THE CURB WOULD OTHERWISE BE AN OBSTRUCTION TO THE PHYSICALLY DISABLED.
2. RAMPS WILL BE CONSTRUCTED FROM CONCRETE. SPECIFICATIONS FOR RAMPS WILL BE THE SAME AS FOR CONCRETE SIDEWALK. RAMPS SHALL HAVE EITHER A ROUGH OR A TEXTURED FINISH.
3. DROP INLETS ARE NOT TO BE LOCATED DIRECTLY IN FRONT OF RAMPS. CATCH DASINS SHOULD BE LOCATED AT LEAST 10 FT. FROM RAMPS WHEN FEASIBLE.
4. WHERE RAMPS ARE LOCATED IN RADII, THE DIMENSIONS SHOWN FOR RAMP WIDTHS AND TAPERS ARE MEASURED PERPENDICULAR TO THE RAMP AND NOT ALONG THE CURVE.
5. WHERE UTILITY STRUCTURES CONFLICT, WHERE SIDEWALK GEOMETRY VARIES, AT SKEWED INTERSECTIONS, OR IN OTHER SPECIAL CASES, THE RAMP DESIGNS MAY BE MODIFIED BY THE DESIGNER OR ENGINEER, PROVIDED THAT THE WIDTH REMAINS A MINIMUM OF 48 INCHES, AND NO SLOPE ON THE ACCESSIBLE PART OF THE RAMP IS STEEPER THAN 12:1.
6. LIN. FT. OF CURB AND GUTTER WILL INCLUDE THE TRANSITIONED CURB IN FRONT OF RAMPS. SQ. YDS. OF CONCRETE SIDEWALK AND CONCRETE MEDIAN PAVING WILL INCLUDE RAMPS. NO ADDITIONAL PAYMENT WILL BE MADE FOR CURB RAMPS. NO ADDITIONAL PAYMENT WILL BE MADE FOR SAWING AND REMOVING EXISTING SIDEWALK OR CURB WHERE NECESSARY FOR RAMP CONSTRUCTION.
7. WHEN A CURB RAMP IS PLACED ON EXISTING PAVEMENT, THE PAVEMENT SHALL BE REMOVED TO PROVIDE A MINIMUM THICKNESS OF 3 INCHES OF CONCRETE AT ALL LOCATIONS. NO SEPARATE PAYMENT WILL BE MADE FOR REMOVAL OF THE PAVEMENT.
8. DETECTABLE WARNING SURFACES ARE REQUIRED ON ALL INTERSECTIONS WITH PUBLIC STREETS, SIGNALIZED COMMERCIAL DRIVEWAYS, AND COMMERCIAL DRIVEWAYS WITH AN AADT OF 25 VPD.

This Detail Replaces Ga Standard 9031W

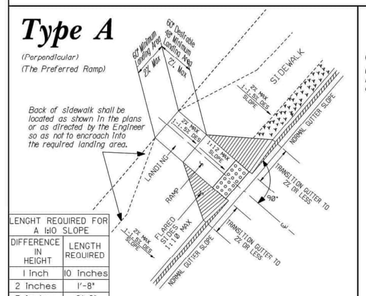
Guidelines For Usage On Metric Projects

When these details are Incorporated into plans and or projects that are being prepared or constructed in metric units, exact or precise conversion to metric units is not required. The dimensions shown that are in feet and inches may be converted to corresponding metric units using the following "Rounded-Off" conversion factors: 1"=25mm, 4"=100mm, and 12" or 1'=300mm. All measurement notes that refer to linear feet and square yards shall be interpreted to mean lineal meters and square meters.

Type A

(Perpendicular)

(The Preferred Ramp)

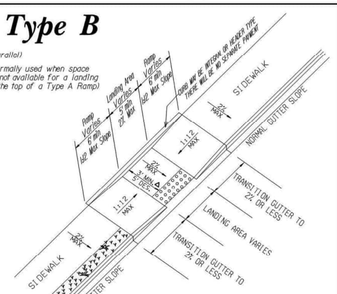


LENGHT REQUIRED FOR A 1:10 SLOPE	
DIFFERENCE IN HEIGHT	LENGTH REQUIRED
1 Inch	10 Inches
2 Inches	1'-8"
3 Inches	2'-6"
4 Inches	3'-4"
5 Inches	4'-2"
6 Inches	5 feet

Type B

(Parallel)

(Normally used when space is not available for a landing at the top of a Type A Ramp)



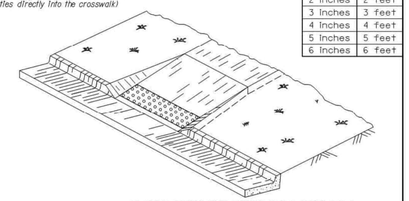
Δ 3 ft. wide landing to be used only with a 5 ft wide sidewalk with no offset to the back of the curb.

LENGHT REQUIRED FOR A 1:12 SLOPE	
DIFFERENCE IN HEIGHT	LENGTH REQUIRED
1 Inch	1 foot
2 Inches	2 feet
3 Inches	3 feet
4 Inches	4 feet
5 Inches	5 feet
6 Inches	6 feet

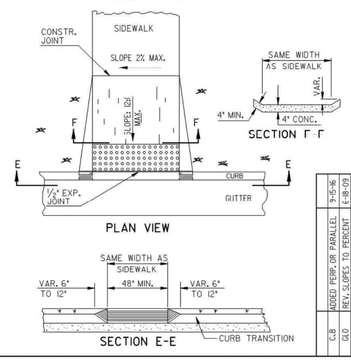
Type D

(Perpendicular)

(Normally used when the sidewalk ties directly into the crosswalk)

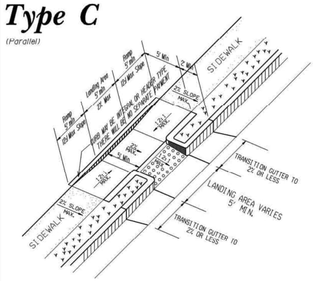


IN AREAS WHERE THE GUTTER HAS A SLOPE 1" IN 1' END NORMAL GUTTER SLOPE AT A DISTANCE OF 6 TO 10 FEET FROM THE RAMP AND BEGIN TRANSITION TO A FLAT GUTTER SLOPE. NORMAL GUTTER SLOPE SHALL BE RESUMED AT A SIMILAR DISTANCE BEYOND THE RAMP.



Type C

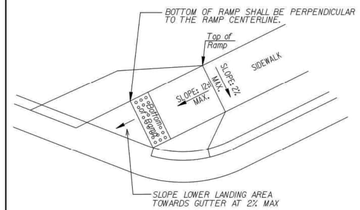
(Parallel)



Skewed Ramp Details

(Applies to Type A Type D Ramps Only)

WHEN THE RAMP CENTERLINE IS NOT PERPENDICULAR TO THE CURB A LEVEL LANDING AREA WITH SLOPES LESS THAN 2% MUST BE PROVIDED AT THE BOTTOM OF THE RAMP.



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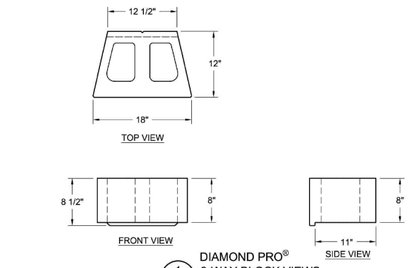
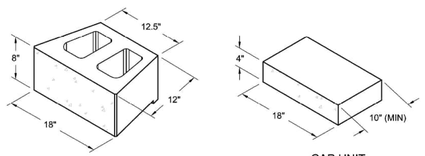
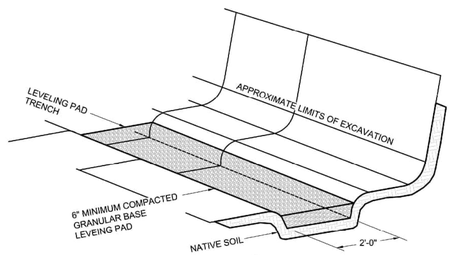


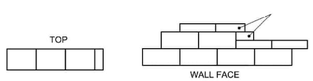
1 W5 DIAMOND PRO® 3-WAY BLOCK VIEWS (NOT TO SCALE)



2 W5 DIAMOND PRO® ISOMETRIC BLOCK VIEWS (NOT TO SCALE)

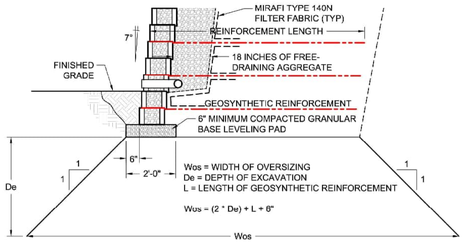


3 W5 DIAMOND PRO® TYPICAL BASE PREPARATION (NOT TO SCALE)

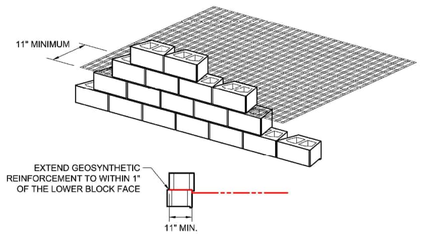


1. ALWAYS START CAPPING WALL FROM THE LOWEST ELEVATION.
2. LAYOUT CAPS PRIOR TO USING ADHESIVE.
3. CUT CAPS TO FIT.
4. USE EXTERIOR-GRADE CONSTRUCTION ADHESIVE TO SECURE CAPS.
5. REFER TO DETAIL 2 ON SHEET W5 FOR ADDITIONAL INFORMATION.

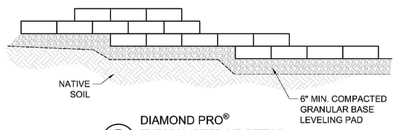
4 W5 DIAMOND PRO® CAP BLOCK DESIGN DETAILS (NOT TO SCALE)



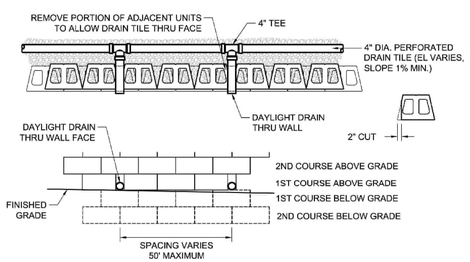
5 W5 DIAMOND PRO® 1:1 EXCAVATION OVERSIZING (NOT TO SCALE)



6 W5 DIAMOND PRO® REINFORCEMENT CONNECTION DETAIL (NOT TO SCALE)



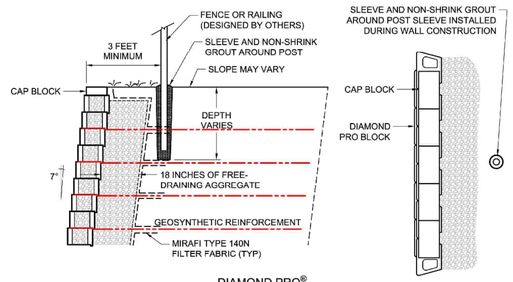
7 W5 DIAMOND PRO® TYPICAL STEP-UP DETAIL (NOT TO SCALE)



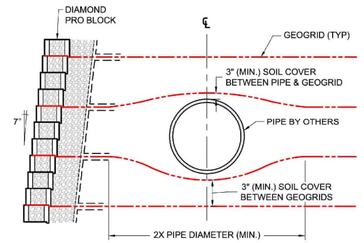
8 W5 DIAMOND PRO® DAYLIGHT DRAINTILE THROUGH WALL (NOT TO SCALE)

THE SITE CIVIL ENGINEER IS RESPONSIBLE FOR DETERMINING WHEN AND WHERE FENCING, GUIDE RAILS, OR TRAFFIC BARRIERS ARE NEEDED ON A SITE. THE STRUCTURAL DESIGN OF THESE ITEMS IS THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER AND DETAILING THE INCORPORATION OF THESE STRUCTURES WITHIN A SRW IS THE RESPONSIBILITY OF THE WALL DESIGN ENGINEER.

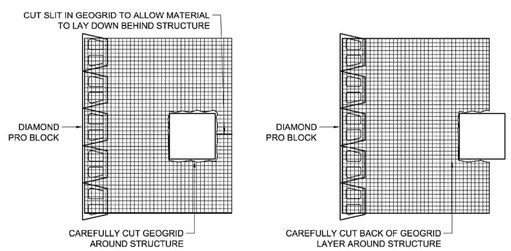
THE RETAINING WALL SYSTEM HAS BEEN DESIGNED TO RESIST THE FOLLOWING FENCE LOADS APPLIED 42" ABOVE FINISHED GRADE:
1. 50 LB PER LINEAR FOOT
2. 200 LB CONCENTRATED LOAD
IT IS THE RESPONSIBILITY OF THE FENCE MANUFACTURER TO ENSURE THE FENCE COMPONENTS ARE ALSO DESIGNED TO RESIST THESE LOADS. IF THE FENCE WILL BE A SOLID PANEL PRIVACY FENCE IT MUST BE PLACED A MINIMUM OF 3' BEHIND THE FACE OF THE SEGMENTAL RETAINING WALL.



9 W5 DIAMOND PRO® FENCE BEHIND WALL (IF REQUIRED) (NOT TO SCALE)



10 W5 DIAMOND PRO® UTILITIES IN REINFORCED ZONE (NOT TO SCALE)



11 W5 DIAMOND PRO® DROP STRUCTURE IN REINFORCED ZONE (NOT TO SCALE)

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