PHASE 2 CONSTRUCTION PLANS

FOR

PROJECT# 1478, STORE# 2612

LOCATION OF SITE:

4443 OLD DUNN COURT, ELLENWOOD, GA 30294

LAND LOT 236, 12TH DISTRICT,

PARCEL ID: 12236C B004 & 12236C B006

CLAYTON COUNTY

CONSULTANTS

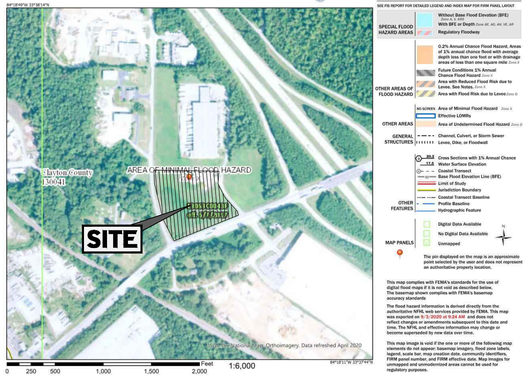
CIVIL ENGINEER BOHLER ENGINEERING BRETT BUCKLAND 211 PERIMETER CENTER PKWY NE, SUITE 1070 ATLANTA, GA 30346 (678) 695-6800 (P) GLEE@BOHLERENG.COM	TRAFFIC CONSULTANT NV5 ENGINEERS AND CONSULTANTS NAVEED JAFFAR, P.E. 1255 CANTON STREET, SUITE G ROSWELL, GA 30075 (678) 795-3600 (P)	SURVEYOR GEOSURVEY, LTD. BRADLEY CASH 1660 BARNES MILL ROAD MARIETTA, GA 30062 (770) 795-9900 (P) (770) 795-8880 (F) INFO@GEOSURVEY.COM	GEOTECH ECS SOUTHEAST, LLP JAY HONSBY 1281 KENNESTONE CIRCLE, NE, SUITE 200 MARIETTA, GA 30066 (770) 590-1971 (P)
SITE LIGHTING DESIGNER GPD GROUP 520 S. MAIN STREET, STE 2531 AKRON, OH 44311	LANDSCAPE ARCHITECT MANLEY DESIGN STEVE MANLEY 51 OLD CANTON ST ALPHARETTA, GA 30009 (770) 442-8171 (P) SMANLEY@MANLEYLANDDESIGN.COM	RETAINING WALL DESIGN SPECIALIST ENGINEERED EARTH SOLUTIONS CHRIS LUNDY 441 CREEKSTONE RIDGE, WOODSTOCK, GA 30188 (770) 592-2950 (P) CLUNDY@EESOLS.COM	

UTILITY PROVIDERS

WATER CLAYTON COUNTY WATER AUTHORITY KEITH WATKINS ENGINEERING SUPERVISOR 1600 BATTLE CREEK ROAD MORROW, GA 30260 (770) 960-5204 KEITH.WATKINS@CCWA.US	STORM SEWER CLAYTON COUNTY WATER AUTHORITY CATHERINE SAMAY PLAN REVIEW COORDINATOR 1600 BATTLE CREEK ROAD MORROW, GA 30260 (770) 960-3607 CATHERINE.SAMAY@CCWA.US	SANITARY SEWER CLAYTON COUNTY WATER AUTHORITY KEITH WATKINS ENGINEERING SUPERVISOR 1600 BATTLE CREEK ROAD MORROW, GA 30260 (770) 960-5204 KEITH.WATKINS@CCWA.US	FIRE DISTRICT CLAYTON COUNTY FIRE & EMERGENCY SERVICES LANDRY MERKISON FIRE CHIEF 7810 HIGHWAY 85 RIVERDALE GA, 30274 770-473-7833
ELECTRIC GEORGIA POWER 404-506-6539	TELEPHONE AT&T TELECOM ANGELO HINES 3054091542 COMCAST TELECOM OLIVER BROOKS 4707874657	GAS ATLANTA GAS LIGHT THOMAS BRANDON 4043873164	

THIS MATRIX HAS BEEN PROVIDED FOR INFORMATION PURPOSES. THE CONTRACTOR SHALL PROVIDE ANY AND ALL APPURTENANCES. TRENCHING AND BACKFILL, AND ALL OTHER INCIDENTALS TO MEET OR EXCEED THE SPECIFICATIONS OF THE ITEMS LISTED.

National Flood Hazard Layer FIRMette


FEMA
Legend
SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT
SPECIAL FLOOD HAZARD AREAS
Without Base Flood Elevation (BFE)
With BFE or Depth
Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD
0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas less than one square mile
Future Conditions 1% Annual Chance Flood Hazard
Area with Reduced Flood Risk due to Levee. See Notes.
Area with Flood Risk due to Levee
NO SCREEN
Area of Minimal Flood Hazard
Effective LOMRs
OTHER AREAS
Area of Undetermined Flood Hazard
GENERAL STRUCTURES
Channel, Culvert, or Storm Sewer
Levee, Dike, or Floodwall
OTHER FEATURES
Cross Sections with 1% Annual Chance
Water Surface Elevation
Coastal Transect
Base Flood Elevation Line (BFE)
Limit of Study
Jurisdiction Boundary
Coastal Transect Baseline
Profile Baseline
Hydrographic Feature
MAP PANELS
Digital Data Available
No Digital Data Available
Unmapped
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/27/2022 at 11:54:47 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.
Clayton County
13067C
AREA OF MINIMAL FLOOD HAZARD
X
13121C0236F
EFFECTIVE
SITE
Clayton County Emergency Management Agency, Oklahoma, Esri Community Maps Contributors, Clayton County, Esri Community Maps Contributors, Clayton County, Esri Community Maps Contributors, Clayton County

GEORGIA SURVEYOR CERTIFICATION

This plat is a retracement of an existing parcel or parcels of land and does not subdivide or create a new parcel or make any changes to any real property boundaries. The recording information of the documents, maps, plats, or other instruments which created the parcel or parcels are stated hereon. RECORDATION OF THIS PLAT DOES NOT IMPLY APPROVAL OF ANY LOCAL JURISDICTION. AVAILABILITY OF PERMITS, COMPLIANCE WITH LOCAL REGULATIONS OR REQUIREMENTS, OR SUITABILITY FOR ANY USE OR PURPOSE OF THE LAND. Furthermore, the undersigned land surveyor certifies that this plat complies with the minimum technical standards for property surveys in Georgia as set forth in the rules and regulations of the Georgia Board of Registration for Professional Engineers and Land Surveyors and as set forth in O.C.G.A. Section 15-6-67.

Brad Cash

Bradley D. Cash
Georgia Registered
Land Surveyor # 2840

(CLERK OF COURT RECORDING INFORMATION)

TITLE EXCEPTIONS

THE FOLLOWING EXCEPTIONS ARE LISTED IN SCHEDULE B, PART II, OF A COMMITMENT FOR TITLE INSURANCE, AS PREPARED BY FIRST AMERICAN TITLE INSURANCE COMPANY, COMMITMENT NO. OSH1168.046, EFFECTIVE DATE MAY 20, 2020.

9. Rights of tenants in possession under unrecorded leases and the terms and conditions of any unrecorded leases.
AFFECTS SITE– NOT ABLE TO PLOT.

10. Riparian rights incident to the premises.
AFFECTS SITE– NOT ABLE TO PLOT.

11. Any mineral or mineral rights leased, granted, or retained by current or prior owners.
UNKNOWN.

12. Easements as contained in that certain Right of Way Deed from E. H. Williamson, et al to Clayton County, dated August 26, 1953, filed September 11, 1953 and recorded in Deed Book 106, Page 422, records of the Superior Court of Clayton County, Georgia.
AFFECTS SITE– NOT ABLE TO PLOT.

13. Easements as contained in that certain Right of Way Deed from Phillip Powell to the Department of Transportation, dated November 11, 1981, filed November 24, 1981 and recorded in Deed Book 1050, Page 143, aforesaid records.
DOES NOT AFFECT SITE– CONTAINED WITHIN RIGHT–OF–WAY.

14. Relinquishment of access rights (except where designated by the Department of Transportation) and easements as contained in that certain Right of Way Deed from Russell Wade and Mildred P. Wade to the Department of Transportation, dated December 8, 1981, filed December 18, 1981 and recorded in Deed Book 1051, Page 757, aforesaid records.
AFFECTS SITE– NOT ABLE TO PLOT.

15. Declaration of Taking styled Department of Transportation vs. Henry W. Hollack, Jr., et al; Docket No. 20762–1 in the Superior Court of Clayton County, Georgia, dated April 19, 1982, filed May 25,1982 and recorded in Deed Book 1064, Page 72, aforesaid records.
DOES NOT AFFECT SITE– CONTAINED WITHIN RIGHT–OF–WAY.

16. All matters affecting subject property as shown on the following plats, all aforesaid records:
(A) Plat Book 3, Page 124;
DOES NOT AFFECT SITE.
(B) Plat Book 23, Page 70; and
DOES NOT AFFECT SITE.
(C) Plat Book 42, Page 101.
DOES NOT AFFECT SITE.

GRAPHIC SCALE

0 20 40 100 200

1"= 40'

UTILITY NOTE

THE UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON LOCATION OF MARKINGS PROVIDED BY:

SUBSURFACE UTILITY INVESTIGATIONS, LLC
898 SWEET BRIAR TRAIL
CONYERS, GEORGIA 30094
(770) 557–4142

SUBSURFACE UTILITY INVESTIGATIONS, LLC UTILIZED SEVERAL TECHNIQUES INCLUDING, BUT NOT LIMITED TO, ELECTROMAGNETIC, MAGNETIC LOCATION FOR FERROUS METALS, ACOUSTIC AND PASSIVE FREQUENCIES TO DESIGNATE AND MARK BURIED UTILITIES ON THE SURFACE WITH PAINT AND FLAGS COVERING THE ENTIRE AREA OF THE PROJECT.

THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN–SERVICE OR ABANDONED. UNDERGROUND UTILITIES NOT OBSERVED OR LOCATED UTILIZING THIS TECHNIQUE MAY EXIST ON THIS SITE BUT NOT BE SHOWN, AND MAY BE FOUND UPON EXCAVATION. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.

INFORMATION REGARDING MATERIAL AND SIZE OF UTILITIES IS BASED ON RECORDS ACQUIRED FROM THE UTILITY OWNERS.

LEGEND

STANDARD ABBREVIATIONS

AC	AIR CONDITIONER
BH	BORE HOLE
BSL	BUILDING SETBACK LINE
CI	CURB INLET
CMP	CORRUGATED METAL PIPE
CMF	CONCRETE MONUMENT FND
CO	SANITARY CLEANOUT
CPED	COMMUNICATION PEDESTAL
CTP	CRIMPED TOP PIPE
DI	DROP INLET
DIP	DUCTILE IRON PIPE
DWCB	DOUBLE WING CATCH BASIN
FNC	FENCE
FND	FOUND
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MH	MANHOLE
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OTP	OPEN TOP PIPE
PM	POWER METER
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POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
RCP	REINFORCED CONCRETE PIPE
RBR	IRON REINFORCING BAR
RBS	5/8"RBR SET CAPPED LSF 621
SS	SANITARY SEWER
SWCB	SINGLE WING CATCH BASIN
TRANS	ELECTRIC TRANSFORMER

STANDARD SYMBOLS

- OVERHEAD TRAFFIC SIGNAL LIGHT
- POWER POLE
- GUY WIRE
- POWER LINE
- LIGHT POLE
- ELECTRIC TRANSFORMER
- WATER VAULT
- GAS VALVE
- GAS METER
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND GAS LINE
- UNDERGROUND COMMUNICATION LINE
- UNDERGROUND WATER LINE
- PHOTO POSITION INDICATOR
- REGULAR PARKING SPACE COUNT
- HANDICAP PARKING SPACE
- TREE POSITION INDICATOR
- SIGN

CLOSURE STATEMENT

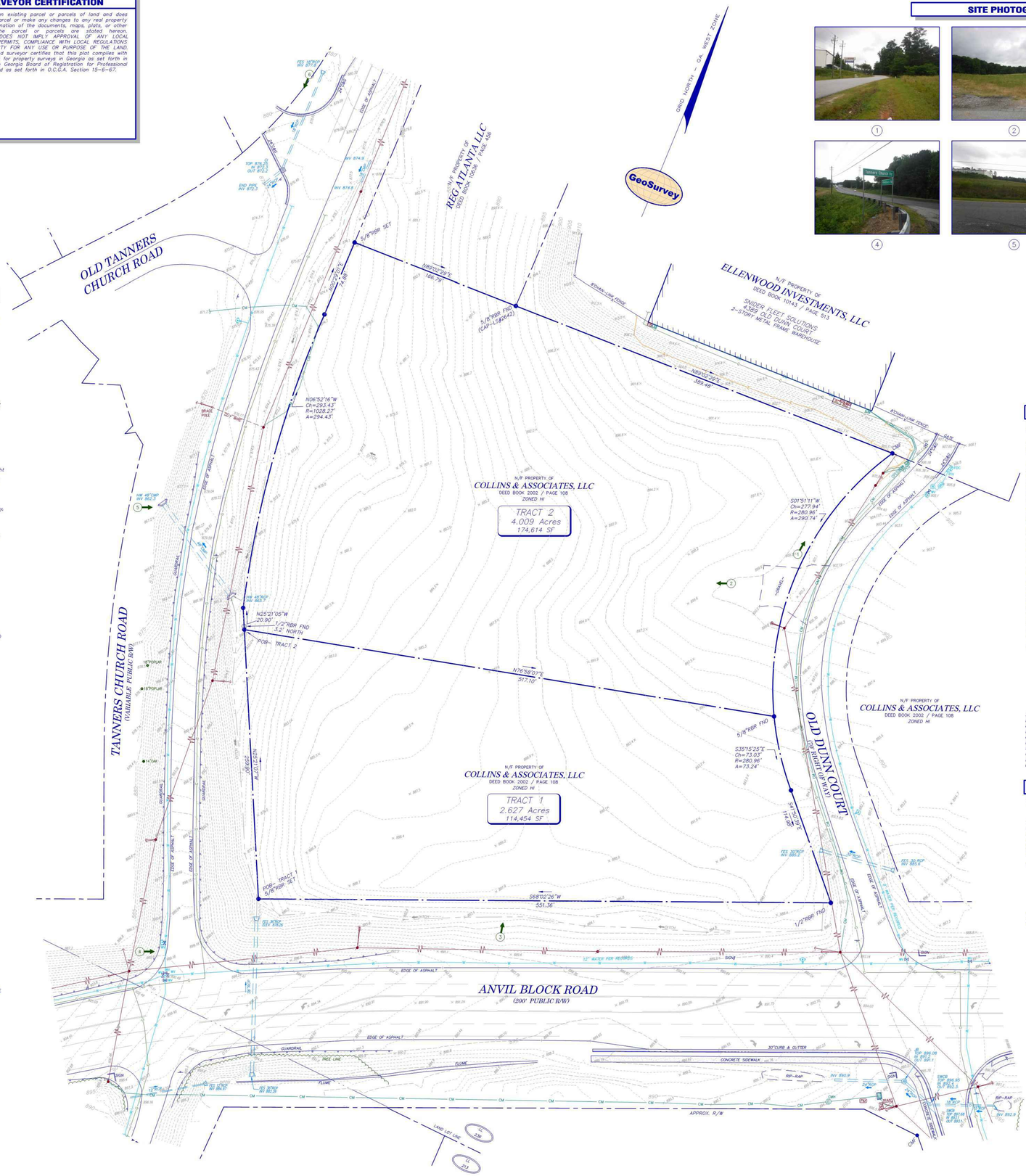
THE FIELD CLOSURE UPON WHICH THIS PLAT IS BASED HAS A CLOSURE PRECISION OF ONE FOOT IN 87,282', AND WAS ADJUSTED USING THE LEAST SQUARES METHOD. A TRIMBLE "S" SERIES TOTAL STATION AND TRIMBLE TSC–3 DATA COLLECTOR WERE USED TO COLLECT THIS FIELD DATA.

THIS PLAT HAS BEEN CALCULATED FOR CLOSURE AND WAS FOUND TO BE ACCURATE WITHIN ONE FOOT IN 485,203 FEET. BDC, INT.

IF YOU DIG

811

Know what's **below.**
Call before you dig.
Dial 811
Or Call 800-282-7411



SITE PHOTOGRAPHS

PROPERTY DESCRIPTION

Overall Description

All that tract or parcel of land lying and being in Land Lot 236 of the 12th District, Clayton County, Georgia, and being more particularly described as follows:

BEGINNING at a 5/8–inch rebar set at the intersection of the Easterly right–of–way line of Tanners Church Road (variable right–of–way) and the Northerly right–of–way line of Anvil Block Road (200–foot right–of–way), said point being the TRUE POINT OF BEGINNING; Thence along said Easterly right–of–way line of Tanners Church Road North 25 degrees 21 minutes 07 seconds West, a distance of 259.90 feet to a point; Thence continue along said right–of–way line North 25 degrees 21 minutes 05 seconds West, a distance of 20.90 feet to a point; Thence along a curve to the right having an arc length of 294.43 feet, with a radius of 1028.27 feet, being subtended by a chord bearing of North 06 degrees 52 minutes 16 seconds West, for a distance of 293.43 feet to a point; Thence North 00 degrees 29 minutes 01 seconds East, a distance of 74.88 feet to a 5/8–inch rebar set; Thence departing said right–of–way line North 89 degrees 02 minutes 29 seconds East, a distance of 166.79 feet to a 5/8–inch rebar found, Thence North 89 degrees 02 minutes 29 seconds East, a distance of 389.48 feet to a concrete monument found located on the Westerly right–of–way line of Dunn Court (70–foot right–of–way); Thence along said right–of–way line following along a curve to the left having an arc length of 290.74 feet, with a radius of 280.96 feet, being subtended by a chord bearing of South 01 degrees 51 minutes 11 seconds West, for a distance of 277.94 feet to a 5/8–inch rebar found Thence continue along said right–of–way line and following along a curve to the left having an arc length of 73.24 feet, with a radius of 280.96 feet, being subtended by a chord bearing of South 35 degrees 15 minutes 25 seconds East, for a distance of 73.03 feet to a point; Thence South 41 degrees 50 minutes 39 seconds East, a distance of 114.98 feet to a 1/2–inch rebar found located at the intersection of the Westerly right–of–way line of Dunn Court with the Northerly right–of–way line of Anvil Block Road (200–foot right–of–way); Thence along said right–of–way line of Anvil Block Road South 68 degrees 02 minutes 26 seconds West, a distance of 551.36 feet to a 5/8–inch rebar set, said point being the TRUE POINT OF BEGINNING.

Said tract of land contains 6.636 Acres.

ALTA CERTIFICATION TABLE "A" NOTES:

Item 16 – No evidence of current earth moving work, building construction or building additions was observed at the date of survey.
Item 17 – No evidence was observed indicating changes in street right of way lines either completed or proposed.
Item 18 – No evidence of wetlands delineation was observed during the course of the survey.
Item 20 – Professional Liability Insurance policy obtained by the surveyor in the minimum amount of $ 1,000,000 to be in effect throughout the contract term. Certificate of insurance to be furnished upon request.

ALTA SURVEYOR CERTIFICATION

To: RaceTrac Petroleum;
DEL LAGO VENTURES, INC
First American Title Insurance Company

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2016 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 5, 6(a), 6(b), 7(a), 7(b–1), 8, 9, 10(b), 11, 12, 13, 14, 15, 16, 17, 18, 19 & 20 of Table A thereof. The field work was completed on May 19, 2020.

Date: May 19, 2020

GEORGIA REGISTERED NO. 2840 BRADLEY D. CASH LAND SURVEYOR

Bradley D. Cash
Georgia Registered
Land Surveyor # 2840

PROPERTY DESCRIPTION

Tract 1

All that tract or parcel of land lying and being in Land Lot 236 of the 12th District, Clayton County, Georgia, and being more particularly described as follows:

BEGINNING at a 5/8–inch rebar set at the intersection of the Easterly right–of–way line of Tanners Church Road (variable right–of–way) and the Northerly right–of–way line of Anvil Block Road (200–foot right–of–way), said point being the TRUE POINT OF BEGINNING; Thence along said Easterly right–of–way line of Tanners Church Road North 25 degrees 21 minutes 07 seconds West, a distance of 259.90 feet to a point; Thence departing said right–of–way line North 76 degrees 58 minutes 07 seconds East, a distance of 517.10 feet to a 5/8–inch rebar found located on the Westerly right–of–way line of Dunn Court (70–foot right–of–way), Thence along said right–of–way line and following along a curve to the left having an arc length of 73.24 feet, with a radius of 280.96 feet, being subtended by a chord bearing of South 35 degrees 15 minutes 25 seconds East, for a distance of 73.03 feet to a point; Thence South 41 degrees 50 minutes 39 seconds East, a distance of 114.98 feet to a 1/2–inch rebar found located at the intersection of the Westerly right–of–way line of Dunn Court with the Northerly right–of–way line of Anvil Block Road (200–foot right–of–way), Thence along said right–of–way line of Anvil Block Road South 68 degrees 02 minutes 26 seconds West, a distance of 551.36 feet to a 5/8–inch rebar set, said point being the TRUE POINT OF BEGINNING.

Said tract of land contains 2.627 Acres.

Tract 2

All that tract or parcel of land lying and being in Land Lot 236 of the 12th District, Clayton County, Georgia, and being more particularly described as follows:

Commencing at a 5/8–inch rebar set at the intersection of the Easterly right–of–way line of Tanners Church Road (variable right–of–way) and the Northerly right–of–way line of Anvil Block Road (200–foot right–of–way); Thence along said Easterly right–of–way line of Tanners Church Road North 25 degrees 21 minutes 07 seconds West, a distance of 259.90 feet to a point, said point being the TRUE POINT OF BEGINNING; Thence continue along said right–of–way line North 25 degrees 21 minutes 05 seconds West, a distance of 20.90 feet to a point; Thence along a curve to the right having an arc length of 294.43 feet, with a radius of 1028.27 feet, being subtended by a chord bearing of North 06 degrees 52 minutes 16 seconds West, for a distance of 293.43 feet to a point; Thence North 00 degrees 29 minutes 01 seconds East, a distance of 74.88 feet to a 5/8–inch rebar set; Thence departing said right–of–way line North 89 degrees 02 minutes 29 seconds East, a distance of 166.79 feet to a 5/8–inch rebar found; Thence North 89 degrees 02 minutes 29 seconds East, a distance of 389.48 feet to a concrete monument found located on the Westerly right–of–way line of Dunn Court (70–foot right–of–way); Thence along said right–of–way line following along a curve to the left having an arc length of 290.74 feet, with a radius of 280.96 feet, being subtended by a chord bearing of South 01 degrees 51 minutes 11 seconds West, for a distance of 277.94 feet to a 5/8–inch rebar found; Thence departing said right–of–way line South 76 degrees 58 minutes 07 seconds West, a distance of 517.10 feet to a point, said point being the TRUE POINT OF BEGINNING.

Said tract of land contains 4.009 Acres.

N/F PROPERTY OF
COLLINS & ASSOCIATES, LLC
DEED BOOK 2002 / PAGE 108

TOTAL SITE AREA
6.636 Acres
289,068 SF
ZONED HI

VICINITY MAP

SITE LOCATION – LATITUDE: 33° 37' 58" LONGITUDE: 84° 18' 29"

GENERAL NOTES

THIS SURVEY HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF THE PERSON OR ENTITIES NAMED HEREON. NO EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE INFORMATION SHOWN HEREON IS TO BE EXTENDED TO ANY PERSONS OR ENTITIES OTHER THAN THOSE SHOWN HEREON.

REVISIONS LISTED ON THIS SURVEY APPLY ONLY TO THE SPECIFIC CHANGES REFERENCED, AND DO NOT CONSTITUTE AN UPDATE OF OTHER DATA ON THIS SURVEY. THE "SURVEY DATE" SHOWN HEREON IS THE APPLICABLE DATE AS RELATED TO PROVISIONS OF STATUTES OF LIMITATION UNLESS SPECIFICALLY NOTED OTHERWISE.

THIS SURVEY HAS BEEN PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE INSPECTION REPORT. EASEMENTS OR OTHER ENCUMBRANCES MAY EXIST ON PUBLIC RECORD BUT NOT BE SHOWN HEREON.

THIS PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA BASED ON THE FLOOD INSURANCE RATE MAP FOR THIS AREA. THE MAP NUMBER FOR THIS AREA IS 13063C0043F, AND THE DATE OF SAID MAP IS 08/07/2017. THIS DETERMINATION WAS MADE BY GRAPHICALLY DETERMINING THE POSITION OF THIS SITE ON SAID FIRM MAPS UNLESS OTHERWISE NOTED.

THE DATUM FOR THIS SITE WAS ESTABLISHED UTILIZING GLOBAL POSITIONING SYSTEMS, AND BASED ON POSITIONAL VALUES FOR THE VIRTUAL REFERENCE STATION NETWORK DEVELOPED BY eGPS SOLUTIONS. THE HORIZONTAL REFERENCE FRAME IS NORTH AMERICAN DATUM OF 1983(2011)–STATE PLANE COORDINATE SYSTEM OF GEORGIA–WEST ZONE. THE VERTICAL REFERENCE FRAME IS NORTH AMERICAN VERTICAL DATUM OF 1988. ANY DIRECTIONS OR DIMENSIONS SHOWN ARE A RECTANGULAR, GROUND LEVEL PROJECTION OF THE STATE PLANE COORDINATE SYSTEM.

NO ZONING REPORT OR ZONING LETTER WAS PROVIDED TO THE SURVEYOR. THE SITE IS ZONED "HI" (HEAVY INDUSTRIAL DISTRICT) AS SHOWN ON THE ZONING MAP OF CLAYTON COUNTY, GEORGIA.

ZONING AND SETBACKS SHOULD BE CONFIRMED AND VERIFIED BY PLANNING AND ZONING PRIOR TO DESIGN OR CONSTRUCTION ACTIVITIES.

RIGHT–OF–WAY LINES SHOWN ON THIS SURVEY THAT ARE NOT ACTUAL BOUNDARIES OF THE SUBJECT TRACT(S) ARE DEPICTED GRAPHICALLY AND ARE SHOWN APPROXIMATELY FOR INFORMATIONAL PURPOSES ONLY. SAID RIGHT–OF–WAY LINES SHOULD NOT BE UTILIZED FOR DESIGN PURPOSES.

NOTE: ROADWAY HAS RECENTLY BEEN RE–PAVED. NEW PAVEMENT MARKINGS WERE NOT INSTALLED AT TIME OF SURVEY.

SURVEY REFERENCES:
1) MINOR SUBDIVISION PLAT FOR COLLINS AND ASSOCIATES, PREPARED BY SOUTHSIDE SURVEYING, DATED 07/30/2013 AND RECORDED IN PLAT BOOK 42, PAGE 101.

S1

GeoSurvey
Land Surveying • 3D Laser Scanning
1660 Barnes Mill Road
Marietta, Georgia 30062
Phone: (770) 795–9900
Fax: (770) 795–8880
www.geosurvey.com
EMAIL: info@geosurvey.com
Certificate of Authorization #LSF–000621

ALTA/NSPS LAND TITLE SURVEY OF

Anvil Block Road Site, Ellenwood, GA

FOR

RaceTrac Petroleum
DEL LAGO VENTURES, INC
First American Title Insurance Company

GS JOB NO:	20206563	DRAWING SCALE:	1"= 40'
FIELD WORK:	ZTM	CITY:	UNINCORPORATED
PROJ MGR:	BDC	COUNTY:	CLAYTON STATE: GA
REVIEWED:	JRC	LAND LOT:	236
DWG FILE:	20206563–01.dwg	DISTRICT:	12th

SURVEY DATE: 05/19/2020

REVISIONS (SEE GENERAL NOTES)

No.	Date	Description
1.	10/21/20	Add topo along Anvil Block Rd.

SURVEYOR CERTIFICATION

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GEORGIA — No. 2840 — LAND SURVEYOR — BRADLEY D. CASH

(CLERK OF COURT RECORDING INFORMATION)

Bradley D. Cash
Georgia Registered
Land Surveyor # 2840

SITE PHOTOGRAPHS

1

2

3

LEGEND

STANDARD ABBREVIATIONS

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SWCB	SINGLE WING CATCH BASIN
TRANS	ELECTRIC TRANSFORMER

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- GAS METER
- WATER VALVE
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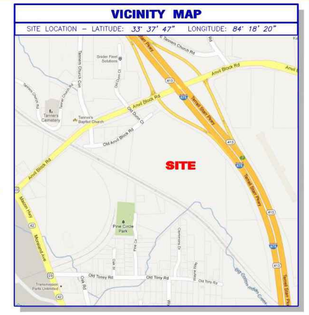
- UNDERGROUND COMMUNICATION LINE
- UNDERGROUND WATER LINE
- PHOTO POSITION INDICATOR
- REGULAR PARKING SPACE COUNT
- HANDICAP PARKING SPACE
- TREE POSITION INDICATOR
- SIGN

VICINITY MAP

SITE LOCATION — LATITUDE: *33° 37' 47"* LONGITUDE: *84° 18' 20"*



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THIS PROPERTY IS NOT LOCATED IN A 100 YEAR FLOOD HAZARD AREA BASED ON THE FLOOD INSURANCE RATE MAP FOR THIS AREA. THE MAP NUMBER FOR THIS AREA IS 13063C0004E, AND THE DATE OF SAID MAP IS 09-05-2007. THIS DETERMINATION WAS MADE BY GRAPHICALLY DETERMINING THE POSITION OF THIS SITE ON SAID FIRM MAPS UNLESS OTHERWISE NOTED.

THE HORIZONTAL DATUM FOR THIS SURVEY IS BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD'83) FROM GPS OBSERVATIONS PERFORMED BY GEOSURVEY, LTD.

THE VERTICAL DATUM FOR THIS SURVEY IS BASED ON THE NORTH AMERICAN DATUM OF 1988 (NAVD'88) FROM GPS OBSERVATIONS PERFORMED BY GEOSURVEY, LTD.

THE SITE IS ZONED "HI" (HEAVY INDUSTRIAL DISTRICT).
THE MINIMUM YARD SETBACKS ARE:
FRONT: 40 FEET (LOCAL)
SIDE: 50 FEET
REAR: 50 FEET

PLEASE NOTE: ZONING AND SETBACKS SHOULD BE CONFIRMED AND VERIFIED BY PLANNING AND ZONING PRIOR TO DESIGN OR CONSTRUCTION ACTIVITIES.

TREES 6"-INCHES DBH AND GREATER ARE SHOWN.

RIGHT-OF-WAY LINES SHOWN ON THIS SURVEY THAT ARE NOT ACTUAL BOUNDARIES OF THE SUBJECT TRACT(S) ARE DEPICTED GRAPHICALLY AND ARE SHOWN APPROXIMATELY FOR INFORMATIONAL PURPOSES ONLY. SAID RIGHT-OF-WAY LINES SHOULD NOT BE UTILIZED FOR DESIGN PURPOSES.

SURVEY REFERENCES

1> ALTA/ACSM LAND TITLE SURVEY FOR DUKE REALTY LIMITED PARTNERSHIP AND FIRST AMERICAN TITLE INSURANCE COMPANY, PREPARED BY BROCK DESIGN GROUP, INC., DATED 07-02-2007. (SUBJECT PROPERTY IS SHOWN AS TRACT 1A IN ABOVE REFERENCE)

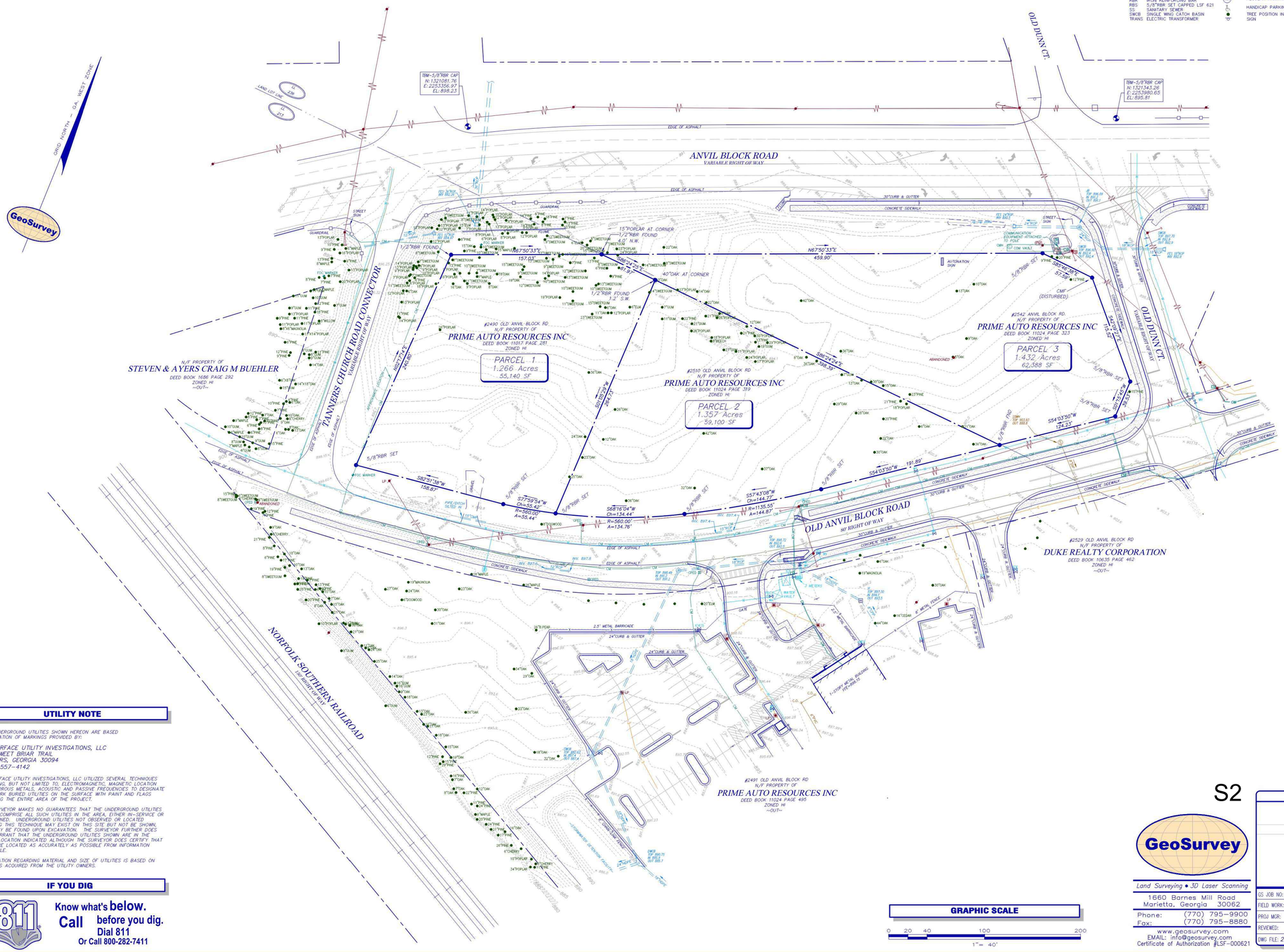
2> ALTA/ACSM LAND TITLE SURVEY FOR DUKE REALTY LIMITED PARTNERSHIP AND FIRST AMERICAN TITLE INSURANCE COMPANY, PREPARED BY McKIM & CREED, DATED 07-02-2007 AND REVISED 11-07-2013.

3> SUBDIVISION PLAT FOR ANVIL BLOCK BUSINESS PARK, PREPARED BY GEOSURVEY, LTD. DATED 07-02-2014.

CLOSURE STATEMENT

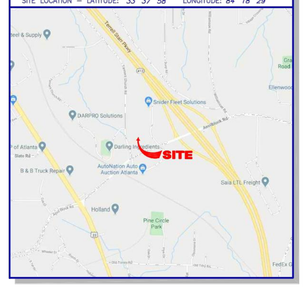
THE FIELD CLOSURE UPON WHICH THIS PLAT IS BASED HAS A CLOSURE PRECISION OF ONE FOOT IN 127,287', AND WAS ADJUSTED USING THE LEAST SQUARES METHOD. A TRIMBLE S-6 TOTAL STATION AND TRIMBLE TSC-3 DATA COLLECTOR WERE USED TO COLLECT THIS FIELD DATA.

THIS PLAT HAS BEEN CALCULATED FOR CLOSURE AND WAS FOUND TO BE ACCURATE WITHIN ONE FOOT IN 601,252+ FEET. BDC INIT.


ANVIL BLOCK ROAD
VARIABLE RIGHT-OF-WAY
OLD DUNN CT.
OLD ANVIL BLOCK ROAD
50' RIGHT OF WAY
TANNERS CHURCH ROAD CONNECTOR
NORFOLK SOUTHERN RAILROAD
100' RIGHT-OF-WAY
GRID NORTH — GA. WEST ZONE
GeoSurvey
TBM-5/8"RBR CAP N:1321081.76 E:2253356.97 EL:898.23
TBM-5/8"RBR CAP N:1321343.26 E:2253980.65 EL:895.81
PARCEL 1 1.266 Acres 55,140 SF
PARCEL 2 1.357 Acres 59,100 SF
PARCEL 3 1.432 Acres 62,388 SF
#2490 OLD ANVIL BLOCK RD N/F PROPERTY OF PRIME AUTO RESOURCES INC DEED BOOK 11017 PAGE 281 ZONED HI
#2510 OLD ANVIL BLOCK RD N/F PROPERTY OF PRIME AUTO RESOURCES INC DEED BOOK 11024 PAGE 319 ZONED HI
#2542 ANVIL BLOCK RD. N/F PROPERTY OF PRIME AUTO RESOURCES INC DEED BOOK 11024 PAGE 323 ZONED HI
#2529 OLD ANVIL BLOCK RD N/F PROPERTY OF DUKE REALTY CORPORATION DEED BOOK 10635 PAGE 462 ZONED HI ~OUT~
#2491 OLD ANVIL BLOCK RD N/F PROPERTY OF PRIME AUTO RESOURCES INC DEED BOOK 11024 PAGE 495 ZONED HI ~OUT~
N/F PROPERTY OF STEVEN & AYERS CRAIG M BUEHLER DEED BOOK 1686 PAGE 292 ZONED HI ~OUT~
N67°50'33"E 459.90'
S86°24'24"E 918.79'
S86°24'24"E 398.59'
S01°35'36"W 244.10'
S86°31'56"W 158.87'
S54°03'50"W 174.23'
S54°03'50"W 191.89'
S01°12'49"W 59.57'
S54°29'24"E 114.58'
S35°45'38"E 33.58'
N01°12'49"E 49.80'
S77°59'54"W Ch=55.43' R=560.00' A=55.44'
S68°16'04"W Ch=134.44' R=560.00' A=134.76'
S57°43'08"W Ch=144.17' R=1135.55' A=144.87'
15"POPLAR AT CORNER
1/2"RBR FOUND 4.0' N.W.
40"OAK AT CORNER
1/2"RBR FOUND 1.2' S.W.
5/8"RBR SET
CMF (DISTURBED)
AUTOGATION SIGN
COMMUNICATION EQUIPMENT ATTACHED TO POLE
COM VAULT
ABANDONED
2.5" METAL BARRICADE
24"CURB & GUTTER
30"CURB & GUTTER
CONCRETE SIDEWALK
EDGE OF ASPHALT
GUARDRAIL
STREET SIGN
FIRE HYDRANT
GAS VALVE
GAS METER
WATER VALVE
WATER METER
POWER POLE
GUY WIRE
LIGHT POLE
ELECTRIC TRANSFORMER
WATER VAULT
OVERHEAD TRAFFIC SIGNAL LIGHT
UNDERGROUND ELECTRIC LINE
UNDERGROUND GAS LINE
UNDERGROUND COMMUNICATION LINE
UNDERGROUND WATER LINE
6" METAL FENCE
1-STORY METAL BUILDING FFE=898.15
2-STORY METAL BUILDING FFE=899.30
DWCB RIM 897.42 INV IN 887.9 INV OUT 887.8
DWCB RIM 897.72 INV IN 887.5 INV OUT 887.4
DWCB RIM 897.72 INV IN 887.5 INV OUT 887.4
DWCB RIM 897.75 INV IN 887.6 INV OUT 887.7

VICINITY MAP

SITE LOCATION – LATITUDE: 33° 37' 58" LONGITUDE: 84° 18' 29"



GENERAL NOTES

THIS SURVEY HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF THE PERSON OR ENTITIES NAMED HEREON. NO EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE INFORMATION SHOWN HEREON IS TO BE EXTENDED TO ANY PERSONS OR ENTITIES OTHER THAN THOSE SHOWN HEREON.

REVISIONS LISTED ON THIS SURVEY APPLY ONLY TO THE SPECIFIC CHANGES REFERENCED, AND DO NOT CONSTITUTE AN UPDATE OF OTHER DATA ON THIS SURVEY. THE "SURVEY DATE" SHOWN HEREON IS THE APPLICABLE DATE AS RELATED TO PROVISIONS OF STATUTES OF LIMITATION UNLESS SPECIFICALLY NOTED OTHERWISE.

THIS SURVEY HAS BEEN PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE INSPECTION REPORT. EASEMENTS OR OTHER ENCUMBRANCES MAY EXIST ON PUBLIC RECORD BUT NOT BE SHOWN HEREON.

THIS PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA BASED ON THE FLOOD INSURANCE RATE MAP FOR THIS AREA. THE MAP NUMBER FOR THIS AREA IS 13063C0043F, AND THE DATE OF SAID MAP IS 06/07/2017. THIS DETERMINATION WAS MADE BY GRAPHICALLY DETERMINING THE POSITION OF THIS SITE ON SAID FIRM MAPS UNLESS OTHERWISE NOTED.

THE DATUM FOR THIS SITE WAS ESTABLISHED UTILIZING GLOBAL POSITIONING SYSTEMS, AND BASED ON POSITIONAL VALUES FOR THE VIRTUAL REFERENCE STATION NETWORK DEVELOPED BY eGPS SOLUTIONS. THE HORIZONTAL REFERENCE FRAME IS NORTH AMERICAN DATUM OF 1983(2011)–STATE PLANE COORDINATE SYSTEM OF GEORGIA–WEST ZONE. THE VERTICAL REFERENCE FRAME IS NORTH AMERICAN VERTICAL DATUM OF 1988. ANY DIRECTIONS OR DIMENSIONS SHOWN ARE A RECTANGULAR, GROUND LEVEL PROJECTION OF THE STATE PLANE COORDINATE SYSTEM.

NO ZONING REPORT OR ZONING LETTER WAS PROVIDED TO THE SURVEYOR. THE SITE IS ZONED "HI" (HEAVY INDUSTRIAL DISTRICT) AS SHOWN ON THE ZONING MAP OF CLAYTON COUNTY, GEORGIA.

ZONING AND SETBACKS SHOULD BE CONFIRMED AND VERIFIED BY PLANNING AND ZONING PRIOR TO DESIGN OR CONSTRUCTION ACTIVITIES.

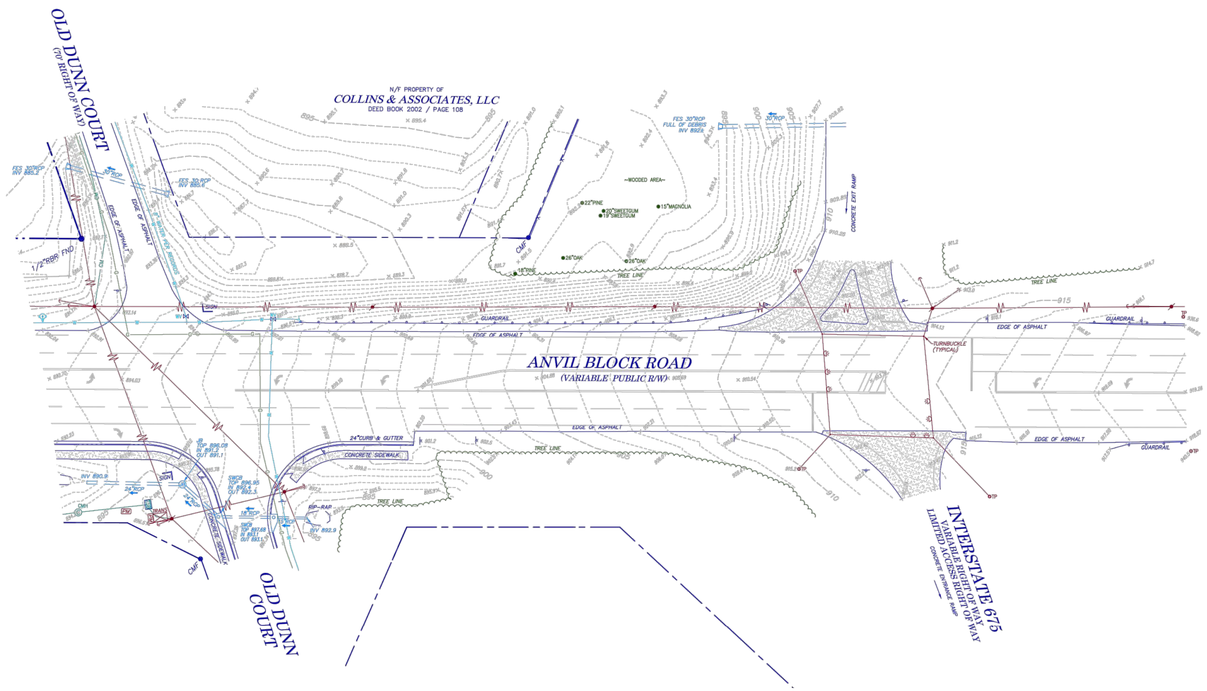
RIGHT–OF–WAY LINES SHOWN ON THIS SURVEY THAT ARE NOT ACTUAL BOUNDARIES OF THE SUBJECT TRACT(S) ARE DEPICTED GRAPHICALLY AND ARE SHOWN APPROXIMATELY FOR INFORMATIONAL PURPOSES ONLY. SAID RIGHT–OF–WAY LINES SHOULD NOT BE UTILIZED FOR DESIGN PURPOSES.

NOTE: ROADWAY HAS RECENTLY BEEN RE–PAVED. NEW PAVEMENT MARKINGS WERE NOT INSTALLED AT TIME OF SURVEY.

SURVEY REFERENCES

1> MINOR SUBDIVISION PLAT FOR COLLINS AND ASSOCIATES, PREPARED BY SOUTHSIDE SURVEYING, DATED 07/30/2013 AND RECORDED IN PLAT BOOK 42, PAGE 101.

2> ALTA/NSPS LAND TITLE SURVEY FOR RACETRAC PETROLEUM, PREPARED BY GEOSURVEY, LTD. DATED 05/19/2020.



GRID NORTH – GA. WEST ZONE

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LEGEND

STANDARD ABBREVIATIONS

AC	AIR CONDITIONER
BH	BORE HOLE
BSL	BUILDING SETBACK LINE
CI	CURB INLET
CMP	CORRUGATED METAL PIPE
CMF	CONCRETE MONUMENT FND
CO	SANITARY CLEANOUT
CPED	COMMUNICATION PEDESTAL
CTP	CRIMPED TOP PIPE
DI	DROP INLET
DIP	DUCTILE IRON PIPE
DWCB	DOUBLE WING CATCH BASIN
FNC	FENCE
FND	FOUND
GM	GAS METER
INV	INVERT
JB	JUNCTION BOX
MH	MANHOLE
OCS	OUTLET CONTROL STRUCTURE
OTP	OPEN TOP PIPE
PM	POWER METER
PKS	PK NAIL SET
POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
RCP	REINFORCED CONCRETE PIPE
RBR	IRON REINFORCING BAR
RBS	5/8"REBAR SET CAPPED LSF 621
SS	SANITARY SEWER
SWCB	SINGLE WING CATCH BASIN
TRANS	ELECTRIC TRANSFORMER

STANDARD SYMBOLS

- OVERHEAD TRAFFIC SIGNAL LIGHT
- POWER POLE
- GUY WIRE
- POWER LINE
- LP LIGHT POLE
- ELECTRIC TRANSFORMER
- WATER VAULT
- GAS VALVE
- GAS METER
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND GAS LINE
- UNDERGROUND COMMUNICATION LINE
- UNDERGROUND WATER LINE
- PHOTO POSITION INDICATOR
- REGULAR PARKING SPACE COUNT
- HANDICAP PARKING SPACE
- TREE POSITION INDICATOR
- SIGN

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GRAPHIC SCALE

0 20 40 100 200

1" = 40'

S3

GEORGIA REGISTERED NO. 2810 LAND SURVEYOR BRADLEY D. CASH

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Land Surveying • 3D Laser Scanning

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EMAIL: info@geosurvey.com
Certificate of Authorization #LSF–000621

TOPOGRAPHIC SURVEY OF

Anvil Block Road Site, Ellenwood, GA

FOR

RaceTrac Petroleum

GS JOB NO:	20206563	DRAWING SCALE:	1" = 40'
FIELD WORK:	ZTM	CITY:	UNINCORPORATED
PROJ MGR:	BDC	COUNTY:	CLAYTON STATE: GA
REVIEWED:	JRC	LAND LOT:	236
DWG FILE:	20206563–01.dwg	DISTRICT:	12th

SURVEY DATE: 05/19/2020

REVISIONS (SEE GENERAL NOTES)

No.	Date	Description
1.	10/21/20	Add topo along Anvil Block Rd.

GENERAL NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, AND SCHEDULE INSPECTION ACCORDING TO AGENCY INSTRUCTION.
2. ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK, INCLUDING LANDSCAPING.
3. AT LEAST 3 WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE OWNER, ENGINEER AND APPROPRIATE AGENCIES AND SUPPLY THEM WITH ALL REQUIRED SHOP DRAWINGS, THE CONTRACTOR'S NAME, STARTING DATE, PROJECTED SCHEDULE, AND OTHER INFORMATION AS REQUIRED. ANY WORK PERFORMED PRIOR TO NOTIFYING THE OWNER & ENGINEER OF RECORD OR WITHOUT AGENCY INSPECTOR PRESENT MAY BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE OWNER'S CONSTRUCTION MANAGER, SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO USE ON THIS SITE. CONSTRUCTION MANAGER'S APPROVAL OF A SHOP DRAWING DOES NOT RELIEVE CONTRACTOR'S RESPONSIBILITY FOR PERFORMANCE OF THE ITEM.
4. WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED ON SITE BY OTHER CONTRACTORS AND UTILITY COMPANIES. IT IS NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES, WHERE NECESSARY, WITH OTHER CONTRACTOR'S AND UTILITY COMPANIES.
5. MATERIALS AND CONSTRUCTION METHODS FOR STREETS AND STORM DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY.
6. CONTRACTOR SHALL REVIEW SOIL REPORTS AND BORINGS PRIOR TO BIDDING THE PROJECT AND COMMENCING CONSTRUCTION.
7. THE CONTRACTOR SHALL USE EACH PLAN IN CONJUNCTION WITH THE ENTIRE SET OF DRAWINGS AND JOB SPECIFICATIONS. DO NOT REMOVE OR DEMOLISH ANYTHING WITHOUT VERIFYING AND COORDINATION WITH ALL ELECTRICAL, PLUMBING, MECHANICAL, GENERAL TRADES, AND UTILITY COMPANIES AS THEY EFFECT THE OVERALL PROJECT.
8. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS.

GENERAL DEMOLITION NOTES & SPECIFICATIONS:

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS REQUIRED TO CARRY OUT THE WORK AS SHOWN ON THE DEMOLITION PLAN.
2. THE CONTRACTOR IS RESPONSIBLE TO VERIFY EXISTING UTILITIES PRIOR TO DEMOLITION AND EXCAVATION.
3. THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS IN THE REMOVAL/DEMOLITION OF HAZARDOUS MATERIALS.
4. CONTRACTOR IS RESPONSIBLE FOR ALL REGISTRATIONS, PERMITS AND FEES REQUIRED TO REMOVE AND PROPERLY DISPOSE OF ALL DEMOLITION MATERIALS.
5. DEMOLITION CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROVALS AND NOTIFICATIONS TO ALL LOCAL, STATE AND FEDERAL AUTHORITIES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISCONNECTION OF THE UTILITY SERVICES TO THE EXISTING STRUCTURES PRIOR TO DEMOLITION OF ANY BUILDINGS. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES.
7. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS NOT RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
8. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION AND REMOVAL OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE, COMPACT FILL MATERIAL PER THE SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS INVOLVED AND IS RESPONSIBLE FOR REMOVING AND DUMPING THE DEBRIS IN AN APPROVED, LAWFUL MANNER.
9. ALL EXISTING UTILITIES ARE TO BE REMOVED, TERMINATED AND CAPPED AT THE RIGHT-OF-WAY. ALL EXISTING METERS, VALVES, ETC. ARE TO BE REMOVED UNLESS OTHERWISE NOTED ON THE PLANS.
10. ALL EXISTING SERVICE LINES FOR TELEPHONE, ELECTRIC, SEWER, AND CABLE TELEVISION SERVICES ARE TO BE REMOVED TO EXISTING TRUNK LINES UNLESS OTHERWISE NOTED ON THE PLANS.
11. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS INVOLVED IN THE REMOVAL OR RELOCATION OF ANY UTILITY.THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH APPLICABLE UTILITY COMPANIES.
12. THE CONTRACTOR SHALL MAINTAIN ALL UTILITY SERVICES TO THE EXISTING ADJACENT BUSINESSES AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE WITH THE TENANT AND UTILITY COMPANY FOR THE RELOCATION AND/OR REMOVAL OF UTILITIES IF NECESSARY. SERVICES SHALL NOT BE INTERRUPTED WITHOUT APPROVAL FROM THE TENANT.
13. THE SITE MAY BE OCCUPIED BY EXISTING STRUCTURES, STORM LINES, PAVEMENT, POWER POLES AND UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES THAT MAY HAVE UTILITIES ON THE SITE TO GET A DETERMINATION IF ANY UTILITIES EXISTING WILL BE IMPACTED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING IF THE UTILITIES SHOULD BE ABANDONED OR REMOVED.
14. ALL AREAS WHERE PAVEMENT, STRUCTURE SLABS, FOUNDATIONS, UTILITIES, CONDUITS, AND/OR UTILITY STRUCTURES HAVE BEEN REMOVED SHALL BE BACKFILLED WITH SELECT BACKFILL MATERIAL. ALL SELECT BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED PER THE REQUIREMENTS OF SPECIFICATIONS AND THE OWNERS GEOTECHNICAL ENGINEER.
15. ALL EXISTING FENCES, SIGNS, POWER POLES, AND LIGHT POLES LOCATED ON-SITE SHALL BE DEMOLISHED AND REMOVED UNLESS OTHERWISE NOTED.
16. EXISTING CAST IN PLACE SEPTIC TANKS (IF FOUND ON-SITE) SHALL BE PUMPED BY A LICENSED CONTRACTOR. THE SEPTIC TANK SHALL THEN BE REMOVED AND THE AREA BACKFILLED PER THE PROJECT SPECIFICATIONS UNLESS OTHERWISE NOTED. ALL WORK SHALL BE IN ACCORDANCE WITH HEALTH DEPARTMENT REQUIREMENTS.
17. CONTRACTOR IS RESPONSIBLE FOR WALKING SITE AND DETERMINING EXTENTS OF DEMOLITION WORK PRIOR TO BID DATE.
18. EXISTING MANHOLE TOPS, VALVE BOXES, ETC. TO REMAIN ARE TO BE ADJUSTED AS REQUIRED TO MATCH PROPOSED GRADES. IF NECESSARY, RE-ADJUSTMENTS SHALL BE PERFORMED UPON COMPLETION OF PAVING AND FINE GRADING TO ENSURE A SMOOTH TRANSITION.
19. PRIOR TO ANY WORK ON-SITE, THE CONTRACTOR SHALL CONTACT THE ONE CALL SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY REMOVALS WHETHER LOCATED BY THE ONE CALL SYSTEM OR NOT.
20. CONTRACTOR SHALL COORDINATE REMOVAL OF EXISTING ELECTRICAL SERVICES ON-SITE WITH THE POWER COMPANY. POWER COMPANY IS RESPONSIBLE FOR THE DISCONNECTION AND REMOVAL OF EXISTING SERVICES UNLESS OTHERWISE NOTED.
21. LIMITS OF PAVEMENT SHOWN TO BE REMOVED ARE APPROXIMATE AND FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY THE LIMITS OF PAVEMENT TO DETERMINE THE EXTENT OF THE EXISTING PAVEMENT TO BE REMOVED.
22. IF NOT SHOWN ON THE DEMOLITION DRAWINGS, THE CONTRACTOR SHALL REMOVE ALL EXISTING MATERIALS AS NECESSARY TO COMPLETE ALL NEW WORK AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.
23. SALVAGE RIGHTS FOR ALL DEMOLISHED MATERIALS SHALL BE FIRST GIVEN TO THE OWNER. ANY MATERIALS NOT RETAINED BY THE OWNER SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
24. REFER TO SURVEY FOR LIMITS AND BOUNDARY OF PROPERTY.

EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL CONSTRUCT THE SILT FENCING AS SHOWN ON THE EROSION CONTROL PLAN AT THE PERIMETER OF THE DISTURBED AREA PRIOR TO LAND CLEARING ACTIVITIES.
2. LAND DISTURBING ACTIVITIES SHALL BE KEPT TO A MINIMUM AND WILL NOT EXTEND BEYOND THE LIMITS SHOWN.
3. PRIOR TO CONSTRUCTION, THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE EROSION CONTROL PLAN SHALL BE IN PLACE. CLEARING AND GRUBBING OPERATIONS WILL BE ENGAGED IN ONLY AS NECESSARY TO ALLOW THE PLACEMENT OF EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN UNTIL ALL SUCH MEASURES ARE IN PLACE.
4. CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION ENTRANCE PRIOR TO ANY EARTHWORK OPERATIONS.
5. CONTRACTOR SHALL MAINTAIN SILT FENCES FOR THE DURATION OF THE PROJECT UNTIL ACCEPTED BY THE OWNER AT NO EXPENSE TO OWNER.
6. CONTRACTOR SHALL MAINTAIN EROSION CONTROL FACILITIES DURING THE ENTIRE CONSTRUCTION PERIOD. FACILITIES ARE NOT TO BE REMOVED UNTIL COMPLETION OF THE PROJECT AND THE SITE IS STABILIZED.
7. SILT FENCES SHALL BE CLEANED OR REPLACED WHEN TRAPPED SEDIMENT REACHES 50 PERCENT OF THE ABOVE GROUND FENCE HEIGHT OR A LOWER HEIGHT BASED ON MANUFACTURER'S SPECIFICATIONS.
8. SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSPECTED ON A DAILY BASIS AND REPAIRED, ADJUSTED AND MAINTAINED AS NEEDED OR REQUIRED BY GOVERNING AGENCIES AT NO ADDITION EXPENSE TO THE OWNER TO PROVIDE EROSION AND SEDIMENT CONTROL FOR THE DURATION OF CONSTRUCTION AND UNTIL ALL DISTURBED AREAS ARE STABILIZED.
9. CONTRACTOR SHALL INSPECT ON A DAILY BASIS FOR NEEDED REMOVAL OF ANY ACCUMULATED SILTS, DEBRIS, OR REPAIR OF DAMAGED SILT FENCE AT NO ADDITIONAL EXPENSE TO OWNER.
10. ALL EROSION CONTROL MEASURES EXCEPT THE REQUIRED RIP RAP ARE TEMPORARY DEVICES. THESE TEMPORARY DEVICES SHALL BE REMOVED PRIOR TO COMPLETION OF CONSTRUCTION ONCE STABILIZATION OF ALL GRASSED AREAS ARE COMPLETE.
11. ADDITIONAL DEVICES MAY BE REQUIRED AS DEEMED NECESSARY BY GOVERNING AUTHORITIES.
12. ALL GRADED AREAS SHALL BE STABILIZED WITH A PERMANENT FAST GROWING COVER AND/OR MULCH UPON COMPLETION OF GRADING OPERATIONS. COMPLETION OF GRADING OPERATIONS DOES NOT MEAN AT THE END OF THE PROJECT. AS SOON AS FINAL GRADES ARE ESTABLISHED IN AN UNPAVED AREA, THE CONTRACTOR SHALL STABILIZE WITH A TEMPORARY GRASS OR PERMANENT SOD. IF A TEMPORARY GRASS IS APPLIED, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO APPLY A PERMANENT SEED OR SOD AT THE PROPER TIME OF YEAR.
13. FILL SLOPES SHOULD BE PLANTED AS SOON AS AN AREA OF THE SITE IS BROUGHT TO FINAL GRADE. SURFACE RUNOFF SHALL BE INTERCEPTED AT THE TOP OF TEMPORARY AND PERMANENT SLOPES DURING CONSTRUCTION SO THAT WATER IS NOT ALLOWED TO FLOW OVER THE SLOPE FACE.
14. THE GENERAL CONTRACTOR AND THE GRADING CONTRACTOR SHALL REVIEW THERE PROPOSED GRADING SEQUENCE TO INSURE THAT THE LEAST AMOUNT OF LAND POSSIBLE AT ANY ONE TIME IS DISTURBED WITH OUT PERMANENT STABILIZATION.
15. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE COMPLIANCE WITH THE N.P.D.E.S. STORMWATER REQUIREMENTS. THIS INCLUDES, BUT IS NOT LIMITED TO, INSPECTION REQUIREMENTS.
16. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OR DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC., AND ALL REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.

SITE PLAN NOTES:

BOUNDARY AND TOPOGRAPHIC SURVEY WAS PREPARED BY GEOSURVEY, LTD DATED 05/19/2020 REVISED 10/21/2020.

1. CONTRACTOR SHALL REFER TO PLANS BY ARCHITECT FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULE, TOWERS, SLOPE PAVING, COLUMNS, DOOR LOCATIONS, SIDEWALKS, EXIT PORCHES, RAMPS, PRECISE BUILDING DIMENSIONS, AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
2. CONTRACTOR SHALL REFER TO PLANS BY OTHERS FOR ENTRY LOCATIONS OF ALL WATER, SEWER SERVICE, ELECTRICAL, AND TELEPHONE SERVICE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH THE REGULATORY AGENCY AS TO THE LOCATION AND TIE-IN LOCATIONS AND/OR CONNECTIONS TO THEIR FACILITIES.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS AND POLES, ETC. AS REQUIRED FOR ALL SITE IMPROVEMENTS. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES SPECIFICATIONS AND SHALL BE APPROVED BY SUCH.
4. EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY DEVIATIONS FROM THE DESIGN LOCATIONS SHALL BE REPORTED TO THE OWNER OR ENGINEER PRIOR TO CONSTRUCTION.
5. SEE COVER SHEET FOR LIST OF UTILITY COMPANIES AND CONTACT PERSONS.
6. ALL NECESSARY PERMITS AND APPROVALS FROM AGENCIES GOVERNING THE CONSTRUCTION OF THIS WORK SHALL BE SECURED PRIOR TO BEGINNING CONSTRUCTION.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL AREAS INDICATED TO REMAIN UNDISTURBED OR TO REMAIN AS BUFFERS, ALL PROPERTY CORNERS, AND COORDINATION OF A REGISTERED LAND SURVEYOR TO REPLACE ALL PINS ELIMINATED OR DAMAGED DURING CONSTRUCTION.
8. EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE ABANDONED, REMOVED, OR RELOCATED PER PLANS. ALL COST SHALL BE INCLUDED IN BASE BID.
9. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OR DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC, AND ALL REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
10. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL UNDERGROUND UTILITIES WITH HIS WORK. ALL UNDERGROUND UTILITIES (WATER, SANITARY SEWER, STORM SEWER, ELECTRICAL CONDUIT, IRRIGATION SYSTEMS, AND ANY OTHER MISCELLANEOUS UTILITIES) SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF BASE COURSE MATERIAL, AND THE PLACEMENT OF ANY APPROPRIATE SOIL STABILIZATION TECHNIQUE.
11. CONTRACTOR SHALL PROVIDE BOLLARDS FOR PROTECTION OF ALL ABOVE GROUND UTILITIES AND APPURTENANCES ADJACENT TO DRIVE AREAS.
12. CONTRACTOR SHALL MATCH EXISTING PAVEMENT IN GRADE AND ALIGNMENT.
13. CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES AND IMPROVEMENTS SHALL BE CONSTRUCTED TO THE SAME.
14. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
15. ALL WORK AND MATERIAL SHALL COMPLY WITH ALL REGULATORY AGENCY'S REGULATIONS AND CODES AND O.S.H.A. STANDARDS.

GENERAL GRADING PLAN NOTES:

1. TOPOGRAPHIC INFORMATION WAS TAKEN FROM A TOPOGRAPHIC SURVEY BY GEOSURVEY, LTD. DATED 05/19/2020, REVISED 10/21/2020 . IF CONTRACTOR DOES NOT ACCEPT THE EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW.
2. EXISTING CONTOURS INTERVAL IS SHOWN AT ONE FOOT (1').
3. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES (ABOVE AND BELOW GROUND) AS SHOWN ON THE THESE PLANS IS BASED ON RECORD ON EITHER THE VARIOUS UTILITY COMPANIES, VISUAL OBSERVATIONS AT THE SITE, EXISTING SURVEYS AND/OR WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. RACETRAC PETROLEUM DOES NOT GUARANTEE THAT EXISTING UTILITY LOCATIONS AREA EXACT AND THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATIONS OF EXISTING UTILITIES (ABOVE AND BELOW GROUND) BEFORE BEGINNING ANY CONSTRUCTION. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST FORTY-EIGHT HOURS (48 HRS) BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY OWNER AND/OR ENGINEER OF ANY UTILITY CONFLICTS WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
5. ALL CUT OR FILL SLOPES SHALL BE 2:1 OR FLATTER UNLESS OTHERWISE NOTED.
6. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, AND ALL UTILITIES PRIOR TO CONSTRUCTION.
7. CLEARING AND GRUBBING LIMITS SHALL INCLUDE ALL AREAS DISTURBED BY GRADING OPERATIONS. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UNDISTURBED AREAS, ALL PROPERTY CORNERS, AND COORDINATION OF A REGISTERED LAND SURVEYOR TO REPLACE ALL PINS ELIMINATED OR DAMAGED DURING CONSTRUCTION.
8. EXISTING DRAINAGE STRUCTURES TO REMAIN ARE TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILTS AND DEBRIS.
9. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
10. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. AND ALL REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
11. ALL UNSURFACED AREAS IN DISTURBED BY GRADING OPERATIONS SHALL RECEIVE FOUR INCHES (4") OF TOPSOIL, SEED, MULCH,WATER, ETC. CONTRACTOR SHALL GRASS DISTURBED AREAS IN ACCORDANCE WITH THE LANDSCAPE PLAN AND CITY/COUNTY SPECIFICATIONS UNTIL HEALTHY STAND OF GRASS IS OBTAINED.
12. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.
13. CONTRACTOR SHALL TRIM, TACK, AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
14. ALL GRADING OPERATIONS SHALL BE STAKED BY A REGISTERED CIVIL ENGINEER OR LICENSED LAND SURVEYOR APPROVED BY THE OWNER.
15. REFERENCE STRUCTURAL SPECIFICATIONS AND GEOTECHNICAL REPORT FOR BUILDING PAD PREPARATION AND COMPACTION.
16. CONTRACTOR TO REVIEW BORING LOGS PROVIDED BY RACETRAC
17. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
18. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING AND COVERS.
19. EXISTING MANHOLE TOPS, VALVE BOXES, ETC. TO REMAIN ARE TO BE ADJUSTED AS REQUIRED TO MATCH PROPOSED GRADES. IF NECESSARY, RE-ADJUSTMENTS SHALL BE PERFORMED UPON COMPLETION OF PAVING AND FINE GRADING TO ENSURE A SMOOTH TRANSITION.
20. THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
21. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDING AND FOR ALL NATURAL AND PAVED AREAS.
22. ALL RETAINING WALLS TO BE PROTECTED DURING BACKFILL BY CONTRACTOR. THIS INCLUDES BUT IS NOT LIMITED TO, PROVIDING AND INSTALLING PROPER BRACING DURING BACKFILL BEING PLACES ADJACENT TO RETAINING WALLS.

STORM DRAINAGE NOTES:

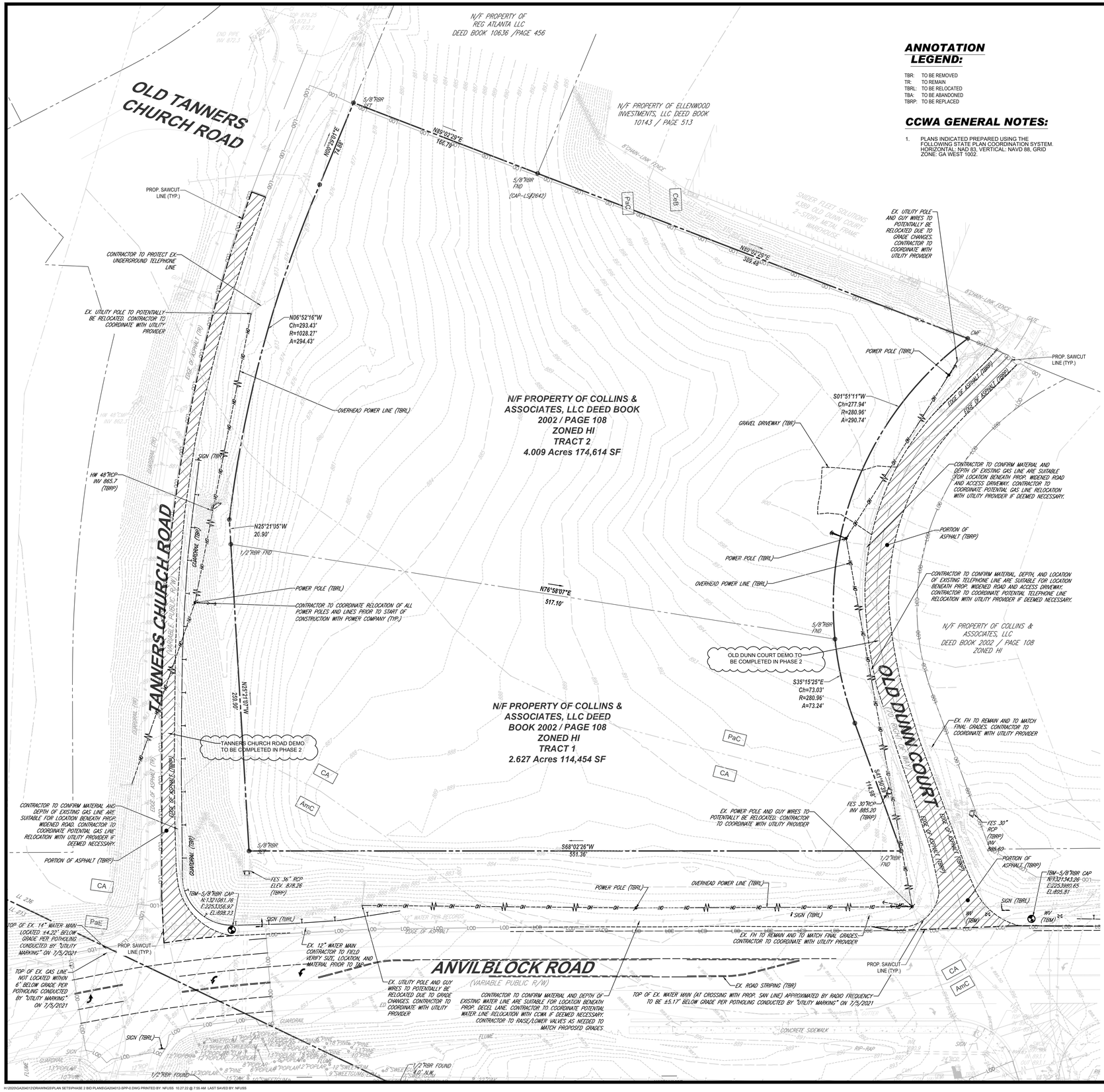
1. ALL PIPE ENTERING STORM SEWER STRUCTURES SHALL BE SEALED TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
2. REFERENCE DETAIL SHEETS FOR STORM WATER DETAILS.
3. THE CONTRACTOR SHALL SUBMIT BUOYANCY CALCULATIONS ON ALL RUNS OF PIPE THAT DO NOT UTILIZE CONCRETE PIPE. BUOYANCY CALCULATIONS SHALL BE PREPARED, SIGNED, AND SEALED BY A REGISTERED ENGINEER, SHALL REPRESENT ACTUAL FIELD CONDITIONS, AND SHALL DEMONSTRATE THAT THE PIPE UTILIZED WILL NOT BECOME BUOYANT UNDER ANY CONDITIONS. THE CONTRACTOR MAY ELECT TO PROVIDE A RESTRAINING SYSTEM, DESIGNED BY A REGISTERED ENGINEER, ADEQUATE TO RESIST BUOYANT FORCES WHERE NECESSARY.

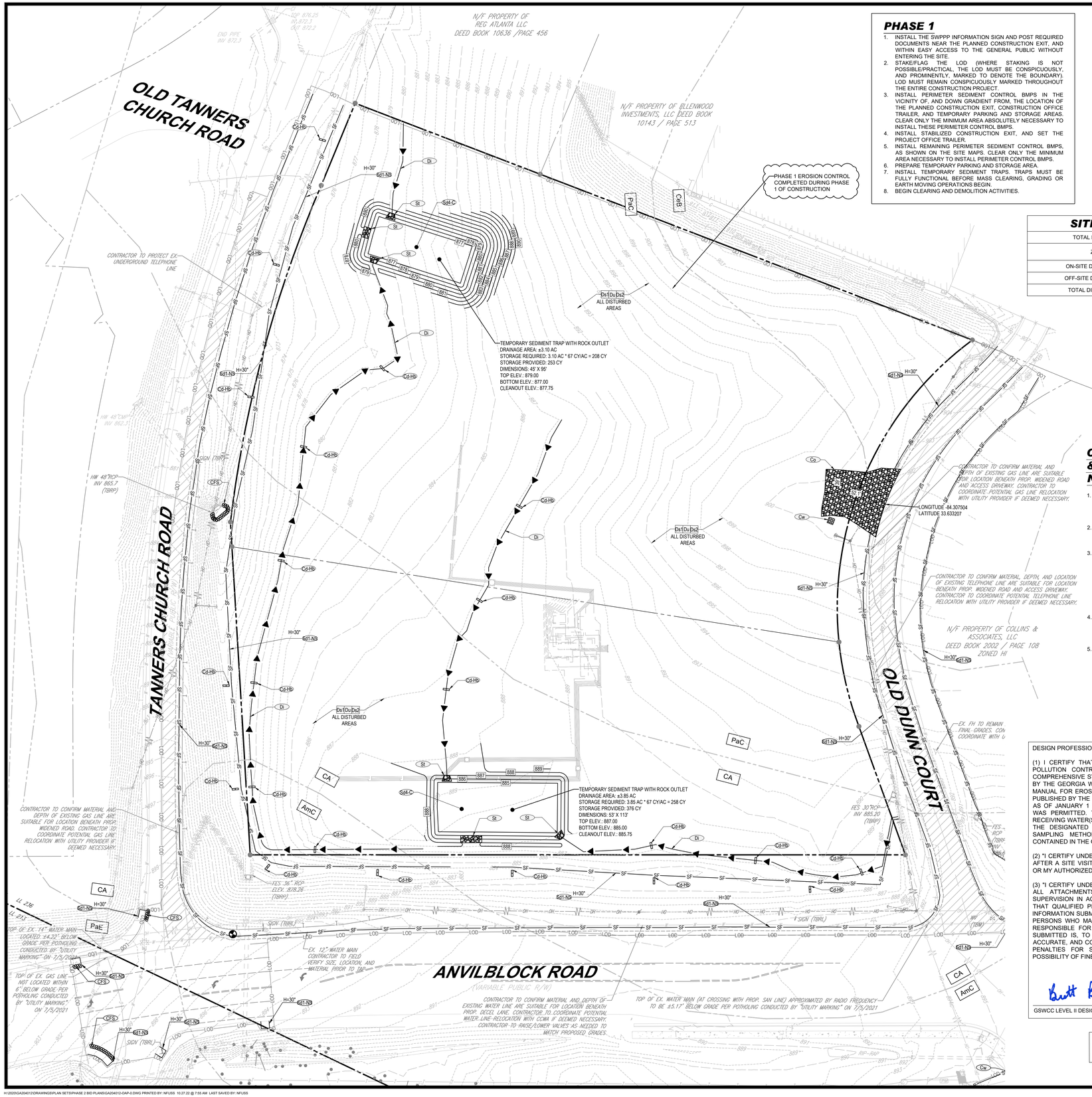
PAVING & STRIPING NOTES:

1. STANDARD DUTY PAVEMENT AREAS SHALL BE PORTLAND CEMENT CONCRETE. DETAILS OF THE STANDARD DUTY CONCRETE PAVEMENT ARE PROVIDED ON DETAIL SHEETS.
2. AREA OVER TANKS, DUMPSTER PAD, AND THE APPROACH IN FRONT OF THE DUMPSTER TO BE EIGHT INCHES (8") THICK 4000 PSI W/ FIBER MESH AND NUMBER FIVE (#5) REBARS PLACED EIGHTEEN INCHES (18") ON CENTER EACH WAY.
3. NOTIFY OWNER 3 DAYS PRIOR TO POUR OF INITIAL SECTION OF DRIVEWAY PAVING. RACETRAC REPRESENTATIVE TO APPROVE INITIAL POUR.
4. TESTING OF MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE PAVING IMPROVEMENTS SHALL BE PERFORMED BY AN AGENCY, APPROVED BY THE OWNER, FOR TESTING MATERIALS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE, BY THE STANDARD TESTING PROCEDURES, THAT THE WORK CONSTRUCTED MEETS THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS.
5. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" LATEST EDITION.
6. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE STATE DOT STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES. THE CONTRACTOR SHALL REVIEW ALL TRAFFIC CONTROL DEVICES WITH DOT PRIOR TO INSTALLATION.
7. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS FOR PARKING STALLS, HANDICAPPED PARKING SYMBOLS, AND MISCELLANEOUS STRIPING WITHIN PARKING LOT AND AROUND BUILDING.
8. SEE IRRIGATION PLANS AND MEP PLANS PRIOR TO PAVING FOR LOCATION OF PROPOSED SLEEVING AND CONDUITS. EXTRA CONDUIT SHALL BE PLACED UNDER DRIVEWAYS FOR FUTURE USE.
9. ALL HANDICAP RAMPING, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT OF 1990.
10. CONTRACTOR TO SUBMIT A POURING PLAN TO THE CONSTRUCTION MANAGER PRIOR TO THE BEGINNING OF ANY PAVING WORK.
11. CONTRACTOR SHALL INSTALL SLAB CONSTRUCTION JOINTS AT THE END OF A DAYS POUR. SLAB CONTRACTION AND SLAB CONSTRUCTION JOINTS ARE TO BE INSTALLED IN ACCORDANCE WITH THE CONCRETE SPECIFICATIONS AS SHOWN ON THE RACETRAC STANDARD DETAILS, SHEETS SD3 AND SD4.
12. PAVING CONTRACTOR TO COORDINATE WITH BUILDING CONTRACTOR ON THE CONSTRUCTION AND PAVING NEAR THE SCREENING WALLS AND THE DUMPSTER PADS.
13. ALL DISCREPANCIES FOUND BY CONTRACTOR RELATED TO UNDERGROUND UTILITIES OR OTHER APPURTENANCES SHALL BE RESOLVED TO THE SATISFACTION OF OWNER AND ENGINEER PRIOR TO PLACEMENT OF ANY PAVING. CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM THE PROPOSED BUILDINGS AND NO PONDING IN SUBGRADE OF AREAS TO BE PAVED, AND NOTIFY OWNER AND ENGINEER IF ANY DISCREPANCIES ARE FOUND PRIOR TO INSTALLATION OF ANY PAVING.
14. EXISTING MANHOLE TOPS, VALVE BOXES, ETC. TO REMAIN ARE TO BE ADJUSTED AS REQUIRED TO MATCH PROPOSED GRADES. IF NECESSARY, RE-ADJUSTMENTS SHALL BE PERFORMED UPON COMPLETION OF PAVING AND FINE GRADING TO ENSURE A SMOOTH TRANSITION.
15. ALL JOINTS SHALL EXTEND THROUGH THE CURB.
16. COMPACTION SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
17. ALL PAVEMENT TO BE SLOPED FOR POSITIVE DRAINAGE.

UTILITY NOTES:

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES (ABOVE AND BELOW GROUND) AS SHOWN ON THE THESE PLANS IS BASED ON RECORD ON EITHER THE VARIOUS UTILITY COMPANIES, VISUAL OBSERVATIONS AT THE SITE, EXISTING SURVEYS AND/OR WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. RACETRAC PETROLEUM DOES NOT GUARANTEE THAT EXISTING UTILITY LOCATIONS AREA EXACT AND THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATIONS OF EXISTING UTILITIES (ABOVE AND BELOW GROUND) BEFORE BEGINNING ANY CONSTRUCTION. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST FORTY-EIGHT HOURS (48 HRS) BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
2. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, AND ALL UTILITIES PRIOR TO CONSTRUCTION. EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY DEVIATIONS FROM THE DESIGN LOCATIONS SHALL BE REPORTED TO THE OWNER AND ENGINEER OF RECORD PRIOR TO CONSTRUCTION.
3. CONTRACTOR TO REMOVE OR RELOCATE WHEN APPLICABLE, ALL EXISTING BUILDINGS, FOUNDATIONS, EASEMENTS, AND CONNECTING IMPROVEMENTS, DRAIN PIPES, SANITARY SEWER PIPE, POWER POLES AND GUY WIRES, WATER METERS AND WATER LINES, WELLS, SIDEWALKS, SIGN POLES, UNDERGROUND GAS, SEPTIC TANKS, AND ASPHALT, SHOWN AND NOT SHOWN, WITHIN CONSTRUCTION LIMITS AND WHERE NEEDED, TO ALLOW FOR FILL MATERIAL, UNLESS OTHERWISE DENOTED, TO BE REMOVED AS UNCLASSIFIED EXCAVATION.
4. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
5. CONTRACTOR SHALL REFER TO ARCHITECTS PLANS AND SPECIFICATIONS FOR ACTUAL LOCATION OF ALL UTILITY ENTRANCES TO INCLUDE SANITARY SEWER LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRICAL, AND TELEPH


N/F PROPERTY OF REG ATLANTA LLC DEED BOOK 10636 /PAGE 456
OLD TANNERS CHURCH ROAD
5/8"RBR
N89°29'01"E 74.88'
N86°02'29"E 166.79'
5/8"RBR FND (CAP--LS#2642)
N/F PROPERTY OF ELLENWOOD INVESTMENTS, LLC DEED BOOK 10143 / PAGE 513
8'CHAIN-LINK FENCE
PaC
CeB
N89°02'29"E 369.48'
SNIDER FLEET SOLUTIONS 4,925 SQ. OLD DUNN COURT 2-STORY METAL FRAME WAREHOUSE
EX. UTILITY POLE AND GUY WIRES TO POTENTIALLY BE RELOCATED DUE TO GRADE CHANGES. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER
CMF
POWER POLE (TBRL)
PROP. SAWCUT LINE (TYP.)
PROP. SAWCUT LINE (TYP.)
CONTRACTOR TO PROTECT EX. UNDERGROUND TELEPHONE LINE
EX. UTILITY POLE TO POTENTIALLY BE RELOCATED. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER
N06°52'16"W Ch=293.43' R=1028.27' A=294.43'
EDGE OF ASPHALT (TYP)
OVERHEAD POWER LINE (TBRL)
N/F PROPERTY OF COLLINS & ASSOCIATES, LLC DEED BOOK 2002 / PAGE 108 ZONED HI TRACT 2 4.009 Acres 174,614 SF
S01°51'11"W Ch=277.94' R=280.96' A=290.74'
GRAVEL DRIVEWAY (TBR)
EDGE OF ASPHALT (TBRP)
EDGE OF ASPHALT (TBRP)
CONTRACTOR TO CONFIRM MATERIAL AND DEPTH OF EXISTING GAS LINE ARE SUITABLE FOR LOCATION BENEATH PROP. WIDENED ROAD AND ACCESS DRIVEWAY. CONTRACTOR TO COORDINATE POTENTIAL GAS LINE RELOCATION WITH UTILITY PROVIDER IF DEEMED NECESSARY.
HW 48"RCP INV 865.7 (TBRP)
SIGN (TBR)
N25°21'05"W 20.90'
1/2"RBR FND
POWER POLE (TBRL)
CONTRACTOR TO COORDINATE RELOCATION OF ALL POWER POLES AND LINES PRIOR TO START OF CONSTRUCTION WITH POWER COMPANY (TYP.)
N76°58'07"E 517.10'
PORTION OF ASPHALT (TBRP)
POWER POLE (TBRL)
OVERHEAD POWER LINE (TBRL)
CONTRACTOR TO CONFIRM MATERIAL, DEPTH, AND LOCATION OF EXISTING TELEPHONE LINE ARE SUITABLE FOR LOCATION BENEATH PROP. WIDENED ROAD AND ACCESS DRIVEWAY. CONTRACTOR TO COORDINATE POTENTIAL TELEPHONE LINE RELOCATION WITH UTILITY PROVIDER IF DEEMED NECESSARY.
5/8"RBR FND
N/F PROPERTY OF COLLINS & ASSOCIATES, LLC DEED BOOK 2002 / PAGE 108 ZONED HI
OLD DUNN COURT DEMO TO BE COMPLETED IN PHASE 2
S35°15'25"E Ch=73.03' R=280.96' A=73.24'
OLD DUNN COURT
EX. FH TO REMAIN AND TO MATCH FINAL GRADES. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER
TANNERS CHURCH ROAD
(VARIABLE PUBLIC R/W)
S25°36'10"W 250.00'
TANNERS CHURCH ROAD DEMO TO BE COMPLETED IN PHASE 2
N/F PROPERTY OF COLLINS & ASSOCIATES, LLC DEED BOOK 2002 / PAGE 108 ZONED HI TRACT 1 2.627 Acres 114,454 SF
PaC
CA
AmC
S45°58'33"E 114.98'
FES 30"RCP INV 885.20 (TBRP)
EX. POWER POLE AND GUY WIRES TO POTENTIALLY BE RELOCATED; CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER
FES 30" RCP (TBRP) INV 885.62
CONTRACTOR TO CONFIRM MATERIAL AND DEPTH OF EXISTING GAS LINE ARE SUITABLE FOR LOCATION BENEATH PROP. WIDENED ROAD AND ACCESS DRIVEWAY. CONTRACTOR TO COORDINATE POTENTIAL GAS LINE RELOCATION WITH UTILITY PROVIDER IF DEEMED NECESSARY.
PORTION OF ASPHALT (TBRP)
5/8"RBR
S68°02'26"W 551.36'
1/2"RBR FND
PORTION OF ASPHALT (TBRP)
TBM--5/8"RBR CAP N:1321341.26 E:2253980.65 EL:895.81
FES 36" RCP ELEV. 8/08.26 (TBRP)
TBM--5/8"RBR CAP N:1321081.76 E:2253356.9.7 EL:898.33
SIGN (TBR)
POWER POLE (TBRL)
OVERHEAD POWER LINE (TBRL)
SIGN (TBR)
SIGN (TBR)
WV (TBM)
WV (TBM)
EX. FH TO REMAIN AND TO MATCH FINAL GRADES.; CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER
TOP OF EX. 14" WATER MAIN LOCATED +4.23' BELOW GRADE PER POTHOLING CONDUCTED BY "UTILITY MARKING" ON 7/5/2021
PROP. SAWCUT LINE (TYP.)
EX. 12" WATER MAIN CONTRACTOR TO FIELD VERIFY SIZE, LOCATION, AND MATERIAL PRIOR TO TAP
ANVILBLOCK ROAD
(VARIABLE PUBLIC R/W)
PROP. SAWCUT LINE (TYP.)
EX. UTILITY POLE AND GUY WIRES TO POTENTIALLY BE RELOCATED DUE TO GRADE CHANGES. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER
CONTRACTOR TO CONFIRM MATERIAL AND DEPTH OF EXISTING WATER LINE ARE SUITABLE FOR LOCATION BENEATH PROP. DEZEL LANE. CONTRACTOR TO COORDINATE POTENTIAL WATER LINE RELOCATION WITH COM IF DEEMED NECESSARY. CONTRACTOR TO RAISE/LOWER VALVES AS NEEDED TO MATCH PROPOSED GRADES
EX. ROAD STRIPING (TBR)
TOP OF EX. WATER MAIN (AT CROSSING WITH PROP. SAN LINE) APPROXIMATED BY RADIO FREQUENCY TO BE ±5.17' BELOW GRADE PER POTHOLING CONDUCTED BY "UTILITY MARKING" ON 7/5/2021
CONTRACTOR TO CONFIRM MATERIAL AND DEPTH OF EXISTING GAS LINE ARE SUITABLE FOR LOCATION BENEATH PROP. WIDENED ROAD AND ACCESS DRIVEWAY. CONTRACTOR TO COORDINATE POTENTIAL GAS LINE RELOCATION WITH UTILITY PROVIDER IF DEEMED NECESSARY.
TOP OF EX. GAS LINE NOT LOCATED WITHIN 6" BELOW GRADE PER POTHOLING CONDUCTED BY "UTILITY MARKING" ON 7/5/2021
SIGN (TBR)
1/2"RBR FOUND
1/2"RBR FOUND
CA
AmC
PaE
CA
AmC
CA
AmC
PaE
EDGE OF ASPHALT
GUARDRAIL (TBR)
CONCRETE SIDEWALK
RIP-RAP
FLUME
WATER TBR RECORDS
LOD
LOD
LOD



PHASE 1

1. INSTALL THE SWPPP INFORMATION SIGN AND POST REQUIRED DOCUMENTS NEAR THE PLANNED CONSTRUCTION EXIT, AND WITHIN EASY ACCESS TO THE GENERAL PUBLIC WITHOUT ENTERING THE SITE.
2. STAKE/FLAG THE LOD (WHERE STAKING IS NOT POSSIBLE/PRACTICAL, THE LOD MUST BE CONSPICUOUSLY, AND PROMINENTLY, MARKED TO DENOTE THE BOUNDARY). LOD MUST REMAIN CONSPICUOUSLY MARKED THROUGHOUT THE ENTIRE CONSTRUCTION PROJECT.
3. INSTALL PERIMETER SEDIMENT CONTROL BMPS IN THE VICINITY OF, AND DOWN GRADIENT FROM, THE LOCATION OF THE PLANNED CONSTRUCTION EXIT, CONSTRUCTION OFFICE TRAILER, AND TEMPORARY PARKING AND STORAGE AREAS. CLEAR ONLY THE MINIMUM AREA ABSOLUTELY NECESSARY TO INSTALL THESE PERIMETER CONTROL BMPS.
4. INSTALL STABILIZED CONSTRUCTION EXIT, AND SET THE PROJECT OFFICE TRAILER.
5. INSTALL REMAINING PERIMETER SEDIMENT CONTROL BMPS, AS SHOWN ON THE SITE MAPS. CLEAR ONLY THE MINIMUM AREA NECESSARY TO INSTALL PERIMETER CONTROL BMPS.
6. PREPARE TEMPORARY PARKING AND STORAGE AREA.
7. INSTALL TEMPORARY SEDIMENT TRAPS. TRAPS MUST BE FULLY FUNCTIONAL BEFORE MASS CLEARING, GRADING OR EARTH MOVING OPERATIONS BEGIN.
8. BEGIN CLEARING AND DEMOLITION ACTIVITIES.

SITE DATA CHECKLIST

TOTAL PARCEL AREA	± 6.64 AC
ZONING	HEAVY INDUSTRIAL; HIGHWAY 42 OVERLAY
ON-SITE DISTURBED AREA	± 6.64 AC
OFF-SITE DISTURBED AREA	± 3.45 AC
TOTAL DISTURBED AREA	± 10.09 AC

OWNER/DEVELOPER

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY S.E.,
SUITE 900
ATLANTA, GA 30339
TIM WILLIAMS
(404) 557-6165
TAWILLIAMS@RACETRAC.COM

CLAYTON COUNTY EROSION & SEDIMENT CONTROL NOTES:

1. WETLANDS SHOWN ON THIS PLAN ARE UNDER THE JURISDICTION OF THE U.S. ARMY CORPS OF ENGINEERS. LOT OWNERS MAY BE SUBJECT TO PENALTY BY LAW FOR DISTURBANCE TO THESE WETLAND AREAS WITHOUT PROPER AUTHORIZATION.
2. WHEN THE SITE IS STABILIZED AND AT THE DIRECTION OF THE COUNTY ENGINEER, THE DEVELOPER IS TO REMOVE THE SEDIMENT BASINS AND STABILIZED THE DISTURBED AREA.
3. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES AND THE INSPECTIONS AND REPAIRS WILL BE MADE BY:
   NAME: TIM WILLIAMS
   ADDRESS: 200 GALLERIA PARKWAY SE, STE 900 ATLANTA, GA 30339
   PHONE (24 HR.): (404) 857-6165
4. IF FULL IMPLEMENTATION OF THE APPROVED PLANS DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
5. SANITARY SEWER EASEMENTS ARE TO BE STABILIZED WITH TEMPORARY AND PERMANENT VEGETATION AS SOON AS EACH SEGMENT IS COMPLETED. STREAM BANK RESTORATION AND STABILIZATION REQUIRED IN ALL DISTURBED STATE WATERS BUFFERS. THE STREAM BANK CANOPY IS TO BE RESTORED WITHIN THE STATE WATERS BUFFERS. GEOMAT AND RIP RAP ARE TO BE PLACED AS NECESSARY TO PREVENT EROSION WITHIN THE STREAM BANKS.

DESIGN PROFESSIONAL'S CERTIFICATION:

(1) 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 STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH LAND DISTURBING ACTIVITY WAS PERMITTED. THE PLAN PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALL. THE DESIGNATED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENT CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR GAR100001.

(2) "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 DIRECT SUPERVISION."

(3) "I CERTIFY UNDER THE PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED UPON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

Brett Buckland
GSWCC LEVEL II DESIGN PROFESSIONAL

ISSUED: 05/08/2018
EXPIRES: 05/08/2024
0000083972
CERTIFICATION #

24-HOUR ESCP EMERGENCY CONTACT
TIM WILLIAMS 404-857-6165
TWILLIAMS@RACETRAC.COM

MAPPED SOIL TYPES

SOIL TYPE	DESCRIPTION	HYDROLOGIC SOIL GROUP
AmC	APPLING SANDY LOAM	B
CA	CARTECAY LOAM	B
CeB	CECIL SANDY LOAM	B
PaC	PACOLET SANDY LOAM, 6 TO 10 PERCENT SLOPES	B
PaE	PACOLET SANDY LOAM, 10 TO 25 PERCENT SLOPES	B

TAKEN FROM: USDA, NRCS WEB SOIL SURVEY FOR CLAYTON COUNTY, GEORGIA

EROSION & SEDIMENT CONTROL LEGEND

- SOILS BOUNDARY
- CO — STABILIZED CONSTRUCTION EXIT
- Tr — TREE PROTECTION FENCING
- SF — Sd1-NS — TYPE NS SEDIMENT BARRIER WITH STEEL POSTS AND WIRE REINFORCING (NON-SENSITIVE AREAS)
- CFS — TYPE B COMPOST FILTER SOCK
- Du — DUST CONTROL (USING: PHASING OF THE PROJECT, MULCH, SPRINKLING WATER, SPRAY-ON-ADHESIVE, CALCIUM CHLORIDE, BARRIERS, ETC.)
- Ds1 — DISTURBED AREA STABILIZATION - MULCHING
- Ds2 — DISTURBED AREA STABILIZATION - TEMPORARY SEEDING
- Sd4-C — TEMP. SEDIMENT TRAP WITH ROCK OUTLET
- Cw — CONCRETE WASHOUT
- Di — DIVERSION
- St — RIPRAP OUTLET PROTECTION
- Cd-Hb — STRAW-BALE CHECK DAMS

GENERAL NOTES:

1. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY TO OR EXIT 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 TRAP SEDIMENT. ALL MATERIAL SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC - ROADWAY OR INTO STORM DRAIN MUST BE REMOVED.
3. PROVIDE GPS COORDINATES AT CONSTRUCTION EXIT AS REQUIRED ON THE NOTICE INTENT UNDER THE NPDES APPLICATION. (33.633207, -84.307504)
4. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEAN. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE SHALL OCCUR WITHIN THE APPROVED LIMITS.
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11. ALL SEWER EASEMENTS DISTURBED MUST BE DRESSED AND GRASSED TO CONTROL EROSION.
12. TREE SAVE FENCE FOR THE ENTIRE SITE MUST BE INSTALLED, INSPECTED AND APPROVED PRIOR TO THE INSTALLATION OF EROSION CONTROL MEASURES. NO LAND DISTURBANCE OR DEMOLITION IS ALLOWED BEFORE TREE SAVE FENCING HAS BEEN INSPECTED.

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40 20 10 0 40
1"= 40'

NO.	REVISION	BY	DATE
1	PHASE 2 BID PLANS	NF	10/27/22

BOHLER
211 PERIMETER CENTER PKWY NE, SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
GA@BohlerEng.com

FOR BIDDING PURPOSES ONLY

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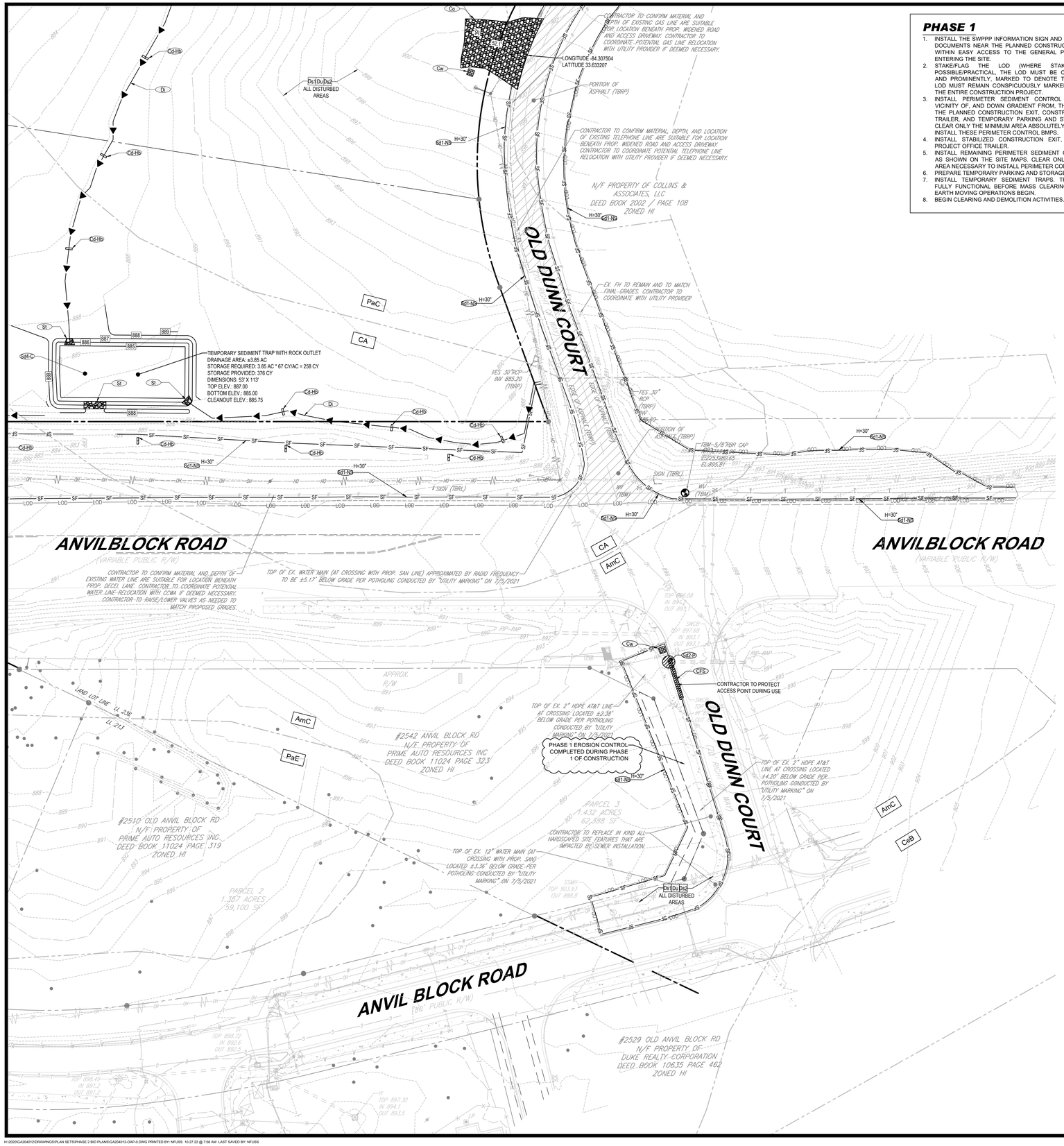
RaceTrac

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY S.E., SUITE 900
ATLANTA, GA 30339
(404) 857-6165

E&S CONTROL PHASE I

4443 OLD DUNN COURT
ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	1"=40'
PROJECT No: GA204012	
C2	1
SHEET NO.	REVISION



PHASE 1

1. INSTALL THE SWPPP INFORMATION SIGN AND POST REQUIRED DOCUMENTS NEAR THE PLANNED CONSTRUCTION EXIT, AND WITHIN EASY ACCESS TO THE GENERAL PUBLIC WITHOUT ENTERING THE SITE.
2. STAKE/FLAG THE LOD (WHERE STAKING IS NOT POSSIBLE/PRACTICAL, THE LOD MUST BE CONSPICUOUSLY, AND PROMINENTLY, MARKED TO DENOTE THE BOUNDARY). LOD MUST REMAIN CONSPICUOUSLY MARKED THROUGHOUT THE ENTIRE CONSTRUCTION PROJECT.
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4. INSTALL STABILIZED CONSTRUCTION EXIT, AND SET THE PROJECT OFFICE TRAILER.
5. INSTALL REMAINING PERIMETER SEDIMENT CONTROL BMPS, AS SHOWN ON THE SITE MAPS. CLEAR ONLY THE MINIMUM AREA NECESSARY TO INSTALL PERIMETER CONTROL BMPS.
6. PREPARE TEMPORARY PARKING AND STORAGE AREA.
7. INSTALL TEMPORARY SEDIMENT TRAPS. TRAPS MUST BE FULLY FUNCTIONAL BEFORE MASS CLEARING, GRADING OR EARTH MOVING OPERATIONS BEGIN.
8. BEGIN CLEARING AND DEMOLITION ACTIVITIES.

SITE DATA CHECKLIST

TOTAL PARCEL AREA	± 6.64 AC
ZONING	HEAVY INDUSTRIAL; HIGHWAY 42 OVERLAY
ON-SITE DISTURBED AREA	± 6.64 AC
OFF-SITE DISTURBED AREA	± 3.45 AC
TOTAL DISTURBED AREA	± 10.09 AC

OWNER/DEVELOPER

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY S.E.,
SUITE 900
ATLANTA, GA 30339
TIM WILLIAMS
(404) 857-6165
TAWILLIAMS@RACETRAC.COM

CLAYTON COUNTY EROSION & SEDIMENT CONTROL NOTES:

1. WETLANDS SHOWN ON THIS PLAN ARE UNDER THE JURISDICTION OF THE U.S. ARMY CORPS OF ENGINEERS. LOT OWNERS MAY BE SUBJECT TO PENALTY BY LAW FOR DISTURBANCE TO THESE WETLAND AREAS WITHOUT PROPER AUTHORIZATION.
2. WHEN THE SITE IS STABILIZED AND AT THE DIRECTION OF THE COUNTY ENGINEER, THE DEVELOPER IS TO REMOVE THE SEDIMENT BASINS AND STABILIZED THE DISTURBED AREA.
3. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES AND THE INSPECTIONS AND REPAIRS WILL BE MADE BY:

   NAME: TIM WILLIAMS
   ADDRESS: 200 GALLERIA PARKWAY SE, SUITE 900 ATLANTA, GA 30339
   PHONE (24 HR.): (404) 857-6165

4. IF FULL IMPLEMENTATION OF THE APPROVED PLANS DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
5. SANITARY SEWER EASEMENTS ARE TO BE STABILIZED WITH TEMPORARY AND PERMANENT VEGETATION AS SOON AS EACH SEGMENT IS COMPLETED. STREAM BANK RESTORATION AND STABILIZATION REQUIRED IN ALL DISTURBED STATE WATERS BUFFERS. THE STREAM BANK CANOPY IS TO BE RESTORED WITHIN THE STATE WATERS BUFFERS. GEOMAT AND RIP RAP ARE TO BE PLACED AS NECESSARY TO PREVENT EROSION WITHIN THE STREAM BANKS.

DESIGN PROFESSIONAL'S CERTIFICATION:

(1) 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 STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH LAND DISTURBING ACTIVITY WAS PERMITTED. THE PLAN PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALL. THE DESIGNATED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENT CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR GAR100001.

(2) "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 DIRECT SUPERVISION."

(3) "I CERTIFY UNDER THE PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED UPON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

Brett Buckland

GSWCC LEVEL II DESIGN PROFESSIONAL

ISSUED: 05/08/2018
EXPIRES: 05/08/2024

0000083972
CERTIFICATION #

24-HOUR ESCP EMERGENCY CONTACT
TIM WILLIAMS 404-857-6165
TWILLIAMS@RACETRAC.COM

MAPPED SOIL TYPES

SOIL TYPE	DESCRIPTION	HYDROLOGIC SOIL GROUP
AmC	APPLING SANDY LOAM	B
CA	CARTECAY LOAM	B
CeB	CECIL SANDY LOAM	B
PaC	PACOLET SANDY LOAM, 6 TO 10 PERCENT SLOPES	B
PaE	PACOLET SANDY LOAM, 10 TO 25 PERCENT SLOPES	B

TAKEN FROM: USDA, NRCS WEB SOIL SURVEY FOR CLAYTON COUNTY, GEORGIA

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- Sd2-P — CURB INLET PROTECTION

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40 20 10 0 40
1"= 40'

NO.	BY	DATE
1	NF	10/27/22

PHASE 2 BID PLANS — REVISION

BOHLER
211 PERIMETER CENTER PKWY NE, SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
GA@BohlerEng.com

FOR BIDDING PURPOSES ONLY

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RaceTrac

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200 GALLERIA PKWY SE, SUITE 900
ATLANTA, GA 30339
(404) 857-6165

E&S CONTROL PHASE I - OFFSITE SEWER

4443 OLD DUNN COURT
ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	1"=40'
PROJECT No: GA204012	
C2.1	1
SHEET NO.	REVISION

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PHASE 1

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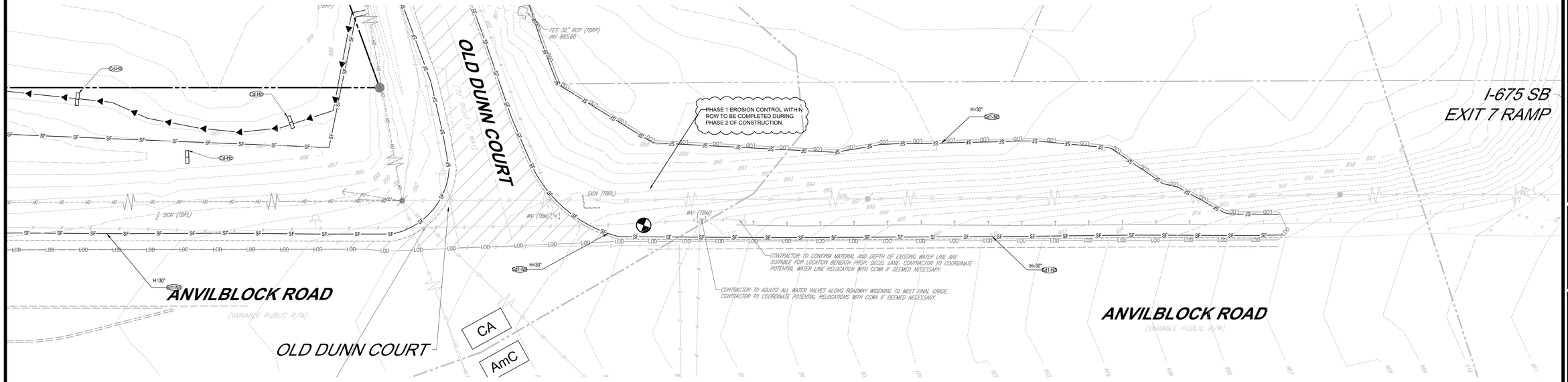

DESIGN PROFESSIONAL'S CERTIFICATION:

(1) 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 STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH LAND DISTURBING ACTIVITY WAS PERMITTED. THE PLAN PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALL. THE DESIGNATED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENT CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR GAR100001.

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Brett Buckland

GSWCC LEVEL II DESIGN PROFESSIONAL

ISSUED: 05/08/2018
EXPIRES: 05/08/2024

0000083972

CERTIFICATION #

EROSION & SEDIMENT CONTROL LEGEND

		SOILS BOUNDARY
	CO	STABILIZED CONSTRUCTION EXIT
SF	Sd1-NS	TYPE S SEDIMENT BARRIER WITH STEEL POSTS AND WIRE REINFORCING (NON-SENSITIVE AREAS)
	Du	DUST CONTROL (USING: PHASING OF THE PROJECT, MULCH, SPRINKLING WATER, SPRAY-ON-ADHESIVE, CALCIUM CHLORIDE, BARRIERS, ETC.)
	Ds1	DISTURBED AREA STABILIZATION - MULCHING
	Ds2	DISTURBED AREA STABILIZATION - TEMPORARY SEEDING
	Di	DIVERSION
	Cd-Hb	STRAW-BALE CHECK DAMS

CLAYTON COUNTY EROSION & SEDIMENT CONTROL NOTES:

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2. WHEN THE SITE IS STABILIZED AND AT THE DIRECTION OF THE COUNTY ENGINEER, THE DEVELOPER IS TO REMOVE THE SEDIMENT BASINS AND STABILIZED THE DISTURBED AREA.
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   NAME: TIM WILLIAMS
   ADDRESS: 200 GALLERIA PARKWAY SE, SUITE 900 ATLANTA, GA 30339
   PHONE (24 HR.): (404) 857-6165
4. IF FULL IMPLEMENTATION OF THE APPROVED PLANS DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
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MAPPED SOIL TYPES

SOIL TYPE	DESCRIPTION	HYDROLOGIC SOIL GROUP
AmC	APPLING SANDY LOAM	B
CA	CARTECAY LOAM	B
CeB	CECIL SANDY LOAM	B
PaC	PACOLET SANDY LOAM, 6 TO 10 PERCENT SLOPES	B
PaE	PACOLET SANDY LOAM, 10 TO 25 PERCENT SLOPES	B
TAKEN FROM: USDA, NRCS WEB SOIL SURVEY FOR CLAYTON COUNTY, GEORGIA		

24-HOUR ESCP EMERGENCY CONTACT
TIM WILLIAMS (404) 857-6165
TAWILLIAMS@RACETRAC.COM

SITE DATA CHECKLIST

TOTAL PARCEL AREA	± 6.64 AC
ZONING	HEAVY INDUSTRIAL; HIGHWAY 42 OVERLAY
ON-SITE DISTURBED AREA	± 6.64 AC
OFF-SITE DISTURBED AREA	± 3.45 AC
TOTAL DISTURBED AREA	± 10.09 AC

OWNER/DEVELOPER

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200 GALLERIA PARKWAY S.E.,
SUITE 900
ATLANTA, GA 30339
TIM WILLIAMS
(404) 857-6165
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20 10 5 0 20
1"= 20'

NO.	REVISION	BY	DATE
1	PHASE 2 BID PLANS	NF	10/27/22

BOHLER
211 PERIMETER CENTER PKWY NE, SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
GA@BohlerEng.com

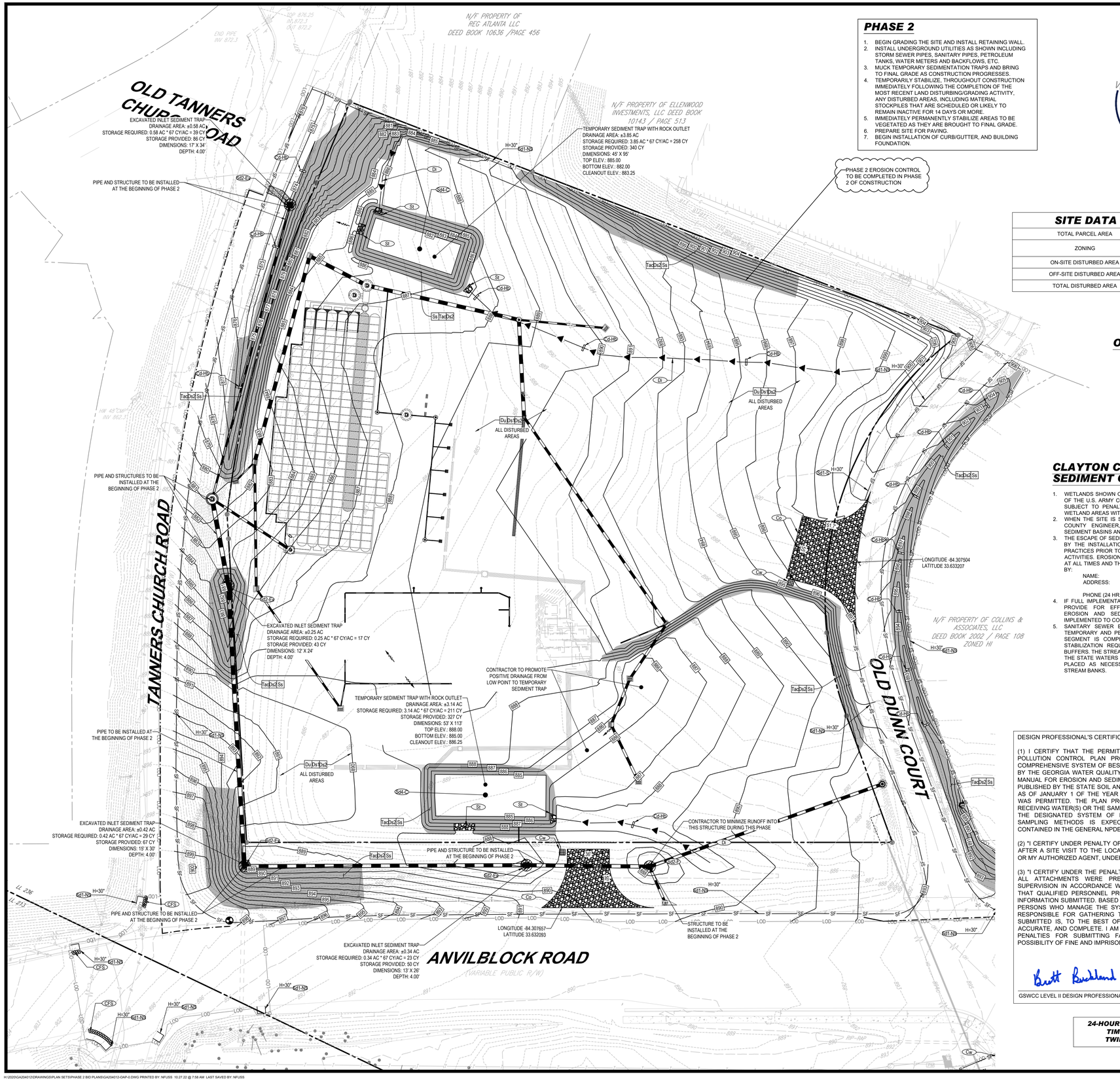
FOR BIDDING PURPOSES ONLY

THESE PLANS ARE INSTRUMENTS OF PROFESSIONAL COPYRIGHT LAWS; ANY USE OF SAME WITHOUT THE EXPRESSED WRITTEN PERMISSION OF RACETRAC PETROLEUM, INC. IS PROHIBITED.

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY, SUITE 900
ATLANTA, GA 30339
(404) 857-6165

E&S CONTROL PHASE I - ANVILBLOCK RIGHT TURN
4443 OLD DUNN COURT
ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	1"=20'
PROJECT No: GA204012	
C2.2	1
SHEET NO.	REVISION



PHASE 2

1. BEGIN GRADING THE SITE AND INSTALL RETAINING WALL.
2. INSTALL UNDERGROUND UTILITIES AS SHOWN INCLUDING STORM SEWER PIPES, SANITARY PIPES, PETROLEUM TANKS, WATER METERS AND BACKFLOWS, ETC.
3. MUCK TEMPORARY SEDIMENTATION TRAPS AND BRING TO FINAL GRADE AS CONSTRUCTION PROGRESSES.
4. TEMPORARILY STABILIZE, THROUGHOUT CONSTRUCTION IMMEDIATELY FOLLOWING THE COMPLETION OF THE MOST RECENT LAND DISTURBING/GRADING ACTIVITY, ANY DISTURBED AREAS, INCLUDING MATERIAL STOCKPILES THAT ARE SCHEDULED OR LIKELY TO REMAIN INACTIVE FOR 14 DAYS OR MORE.
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Brett Buckland
GSWCC LEVEL II DESIGN PROFESSIONAL

ISSUED: 05/08/2018
EXPIRES: 05/08/2024

0000083972
CERTIFICATION #

24-HOUR ESCP EMERGENCY CONTACT
TIM WILLIAMS 404-857-6165
TWILLIAMS@RACETRAC.COM

EROSION & SEDIMENT CONTROL LEGEND

- LOD — LIMITS OF DISTURBANCE
- Tr — TREE PROTECTION FENCING
- CFS — TYPE B COMPOST FILTER SOCK
- Cw — CONCRETE WASHOUT
- Du — DUST CONTROL (USING: PHASING OF THE PROJECT, MULCH, SPRINKLING WATER, SPRAY-ON-ADHESIVE, CALCIUM CHLORIDE, BARRIERS, ETC.)
- Ds1 — DISTURBED AREA STABILIZATION - MULCHING
- Ds2 — DISTURBED AREA STABILIZATION - TEMPORARY SEEDING
- SF — Sd1-NS — TYPE NS SEDIMENT BARRIER (NON-SENSITIVE AREAS)
- CO — STABILIZED CONSTRUCTION EXIT
- Ss | Tac — SLOPE STABILIZATION - USE HYDRAULIC EROSION PRODUCTS (HECP) WITH TACKIFIERS ON ALL SLOPES 3:1 OR STEEPER. ALL PRODUCTS SHALL CONFORM TO THE LATEST GDOT SPECIFICATIONS AND APPROVED MATERIAL LISTS.
- Cd-Hb — STRAW-BALE CHECK DAMS
- Sd2-F — INLET PROTECTION - FILTER FABRIC WITH SUPPORTING FRAME
- Sd2-Ex — INLET PROTECTION - EXCAVATED INLET SEDIMENT TRAP
- Sd4-C — TEMP. SEDIMENT TRAP WITH ROCK OUTLET
- Di — DIVERSION
- St — RIPRAP OUTLET PROTECTION
- Re — RETAINING WALL

GENERAL NOTES:

1. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY TO OR EXIT 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 TRAP SEDIMENT. ALL MATERIAL SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC - ROADWAY OR INTO STORM DRAIN MUST BE REMOVED.
3. PROVIDE GPS COORDINATES AT CONSTRUCTION EXIT AS REQUIRED ON THE NOTICE INTENT UNDER THE NPDES APPLICATION. (33.633207, -84.307504)
4. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEAN. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE SHALL OCCUR WITHIN THE APPROVED LIMITS.
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 AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAY HAVE BEEN PAVED.
9. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED WITH CLAYTON COUNTY CODE.
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.
12. TREE SAVE FENCE FOR THE ENTIRE SITE MUST BE INSTALLED, INSPECTED AND APPROVED PRIOR TO THE INSTALLATION OF EROSION CONTROL MEASURES. NO LAND DISTURBANCE OR DEMOLITION IS ALLOWED BEFORE TREE SAVE FENCING HAS BEEN INSPECTED.

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

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.

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.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING

EROSION & SEDIMENT CONTROLS, ROCK CONSTRUCTION ENTRANCE, AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.

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WASHOUT OF CONCRETE DRUMS AT THE CONSTRUCTION SITE IS PROHIBITED.

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

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 TEMPORARY ROOF.

B. ALL PETROLEUM STORAGE CONTAINERS SHALL BE LOCATED IN A SECONDARY CONTAINMENT AREA.

40 20 10 0 40
1"= 40'

NO.	REVISION	BY	DATE
1	PHASE 2 BID PLANS	NF	10/27/22

BOHLER
211 PERIMETER CENTER PKWY NE, SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
GA@BohlerEng.com

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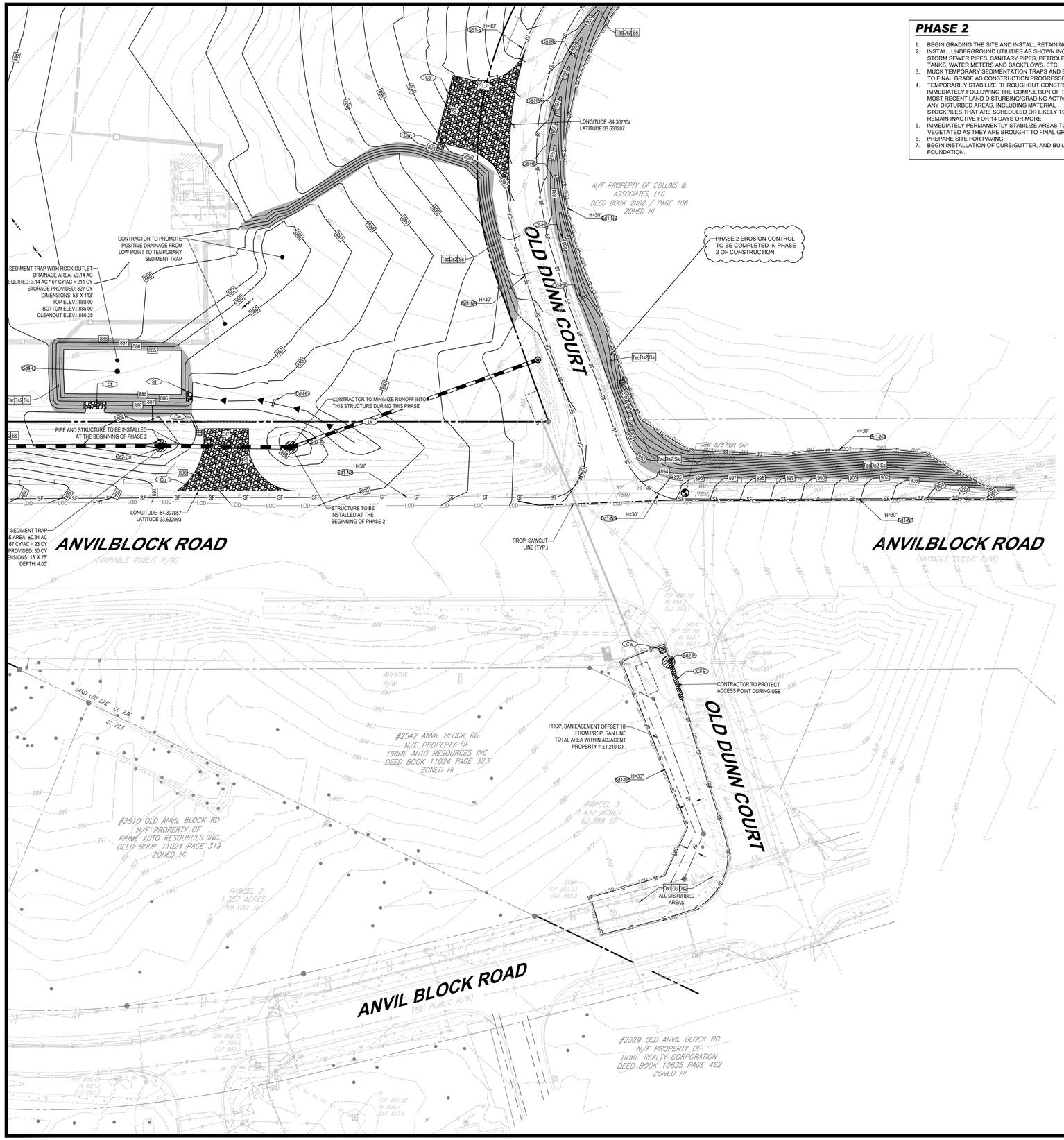
RaceTrac

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY S.E., SUITE 900
ATLANTA, GA 30339
(404) 857-6165

E&S CONTROL PHASE II

4443 OLD DUNN COURT
ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	1"=40'
PROJECT No: GA204012	
C2.3	1
SHEET NO.	REVISION



PHASE 2

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7. BEGIN INSTALLATION OF CURB/GUTTER, AND BUILDING FOUNDATION.

SITE DATA CHECKLIST

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ISSUED: 05/08/2018
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- Ss | Tac — SLOPE STABILIZATION - USE HYDRAULIC EROSION PRODUCTS (HECP) WITH TACKIFIERS ON ALL SLOPES 3:1 OR STEEPER. ALL PRODUCTS SHALL CONFORM TO THE LATEST GDOT SPECIFICATIONS AND APPROVED MATERIAL LISTS.
- Cd-Hb — STRAW-BALE CHECK DAMS
- Sd2-F — INLET PROTECTION - FILTER FABRIC WITH SUPPORTING FRAME
- Sd2-Ex — INLET PROTECTION - EXCAVATED INLET SEDIMENT TRAP
- Sd2-P — CURB INLET PROTECTION
- Sd4-C — TEMP. SEDIMENT TRAP WITH ROCK OUTLET
- Di — DIVERSION
- St — RIPRAP OUTLET PROTECTION
- Re — RETAINING WALL

GENERAL NOTES:

1. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY TO OR EXIT 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 TRAP SEDIMENT. ALL MATERIAL SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC - ROADWAY OR INTO STORM DRAIN MUST BE REMOVED.
3. PROVIDE GPS COORDINATES AT CONSTRUCTION EXIT AS REQUIRED ON THE NOTICE INTENT UNDER THE NPDES APPLICATION. (33.633207, -84.307504)
4. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEAN. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE SHALL OCCUR WITHIN THE APPROVED LIMITS.
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 AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAY HAVE BEEN PAVED.
9. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED WITH CLAYTON COUNTY CODE.
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.
12. TREE SAVE FENCE FOR THE ENTIRE SITE MUST BE INSTALLED, INSPECTED AND APPROVED PRIOR TO THE INSTALLATION OF EROSION CONTROL MEASURES. NO LAND DISTURBANCE OR DEMOLITION IS ALLOWED BEFORE TREE SAVE FENCING HAS BEEN INSPECTED.

THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WITHIN 7 DAYS AFTER INSTALLATION.
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.
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.
ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING EROSION & SEDIMENT CONTROLS, ROCK CONSTRUCTION ENTRANCE, AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES. 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 OR AS DIRECTED BY THE EROSION CONTROL INSPECTOR.
WASHOUT OF CONCRETE DRUMS AT THE CONSTRUCTION SITE IS PROHIBITED.
WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
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 TEMPORARY ROOF. B. ALL PETROLEUM STORAGE CONTAINERS SHALL BE LOCATED IN A SECONDARY CONTAINMENT AREA.

40 20 10 0 40
1"= 40'

NO.	REVISION	BY	DATE
1	PHASE 2 BID PLANS	NF	10/27/22

BOHLER
211 PERIMETER CENTER PKWY NE, SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
GA@BohlerEng.com

FOR BIDDING PURPOSES ONLY

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RaceTrac
RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY SUITE 900
ATLANTA, GA 30339
(404) 857-6165

E&S CONTROL PHASE II - OFFSITE SEWER

4443 OLD DUNN COURT
ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	1"=40'
PROJECT No: GA204012	
C2.4	1
SHEET NO.	REVISION

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

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.

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 TEMPORARY ROOF.

B. ALL PETROLEUM STORAGE CONTAINERS SHALL BE LOCATED IN A SECONDARY CONTAINMENT AREA.

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.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING

EROSION & SEDIMENT CONTROLS, ROCK CONSTRUCTION ENTRANCE, AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.

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 OR AS DIRECTED BY THE EROSION CONTROL INSPECTOR.

WASHOUT OF CONCRETE DRUMS AT THE CONSTRUCTION SITE IS PROHIBITED.

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

PHASE 2

1. BEGIN GRADING THE SITE.
2. INSTALL UNDERGROUND UTILITIES AS SHOWN INCLUDING STORM SEWER PIPES, SANITARY PIPES, PETROLEUM TANKS, WATER METERS AND BACKFLOWS, ETC.
3. MUCK TEMPORARY SEDIMENTATION TRAPS AND BRING TO FINAL GRADE AS CONSTRUCTION PROGRESSES.
4. TEMPORARILY STABILIZE, THROUGHOUT CONSTRUCTION IMMEDIATELY FOLLOWING THE COMPLETION OF THE MOST RECENT LAND DISTURBING/GRADING ACTIVITY, ANY DISTURBED AREAS, INCLUDING MATERIAL STOCKPILES THAT ARE SCHEDULED OR LIKELY TO REMAIN INACTIVE FOR 14 DAYS OR MORE.
5. IMMEDIATELY PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
6. PREPARE SITE FOR PAVING.
7. BEGIN INSTALLATION OF CURB/GUTTER, AND BUILDING FOUNDATION.

GENERAL NOTES:

1. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY TO OR EXIT 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 TRAP SEDIMENT. ALL MATERIAL SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC - ROADWAY OR INTO STORM DRAIN MUST BE REMOVED.
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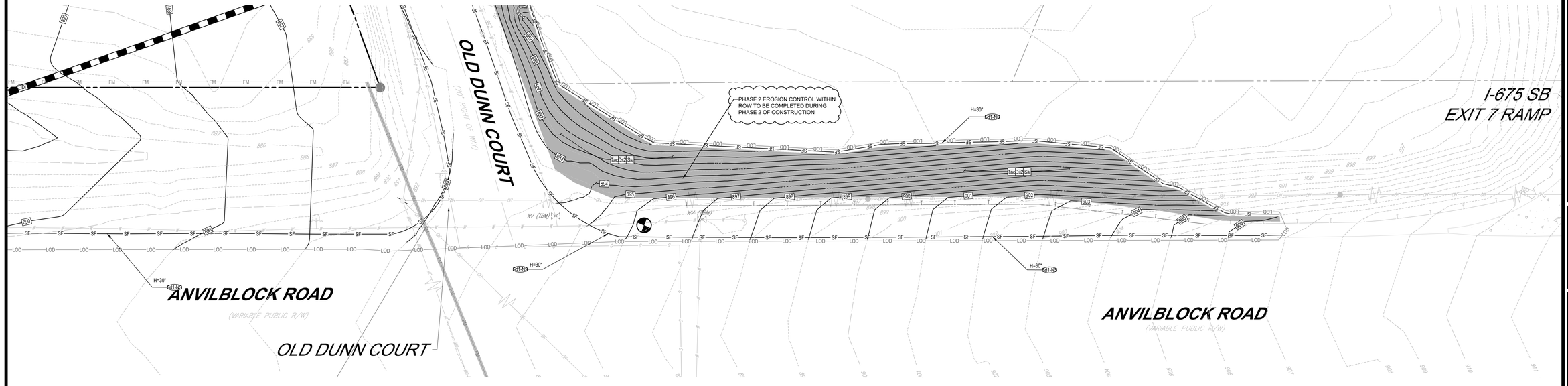

DESIGN PROFESSIONAL'S CERTIFICATION:

(1) 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 STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH LAND DISTURBING ACTIVITY WAS PERMITTED. THE PLAN PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALL. THE DESIGNATED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENT CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR GAR100001.

(2) "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 DIRECT SUPERVISION."

(3) "I CERTIFY UNDER THE PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED UPON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

Brett Buckland

GSWCC LEVEL II DESIGN PROFESSIONAL

ISSUED: 05/08/2018
EXPIRES: 05/08/2024

0000083972
CERTIFICATION #

EROSION & SEDIMENT CONTROL LEGEND

- LOD — LOD — LIMITS OF DISTURBANCE
- Du — DUST CONTROL (USING: PHASING OF THE PROJECT, MULCH, SPRINKLING WATER, SPRAY-ON-ADHESIVE, CALCIUM CHLORIDE, BARRIERS, ETC.)
- Ds1 — DISTURBED AREA STABILIZATION - MULCHING
- Ds2 — DISTURBED AREA STABILIZATION - TEMPORARY SEEDING
- SF — Sd1-NS — TYPE S SEDIMENT BARRIER (NON-SENSITIVE AREAS)
- Ss | Tac — SLOPE STABILIZATION - USE HYDRAULIC EROSION PRODUCTS (HECP) WITH TACKIFIERS ON ALL SLOPES 3:1 OR STEEPER. ALL PRODUCTS SHALL CONFORM TO THE LATEST GDOT SPECIFICATIONS AND APPROVED MATERIAL LISTS.
- Cd-Hb — STRAW-BALE CHECK DAMS
- Di — DIVERSION

CLAYTON COUNTY EROSION & SEDIMENT CONTROL NOTES:

1. WETLANDS SHOWN ON THIS PLAN ARE UNDER THE JURISDICTION OF THE U.S. ARMY CORPS OF ENGINEERS. LOT OWNERS MAY BE SUBJECT TO PENALTY BY LAW FOR DISTURBANCE TO THESE WETLAND AREAS WITHOUT PROPER AUTHORIZATION.
2. WHEN THE SITE IS STABILIZED AND AT THE DIRECTION OF THE COUNTY ENGINEER, THE DEVELOPER IS TO REMOVE THE SEDIMENT BASINS AND STABILIZED THE DISTURBED AREA.
3. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES AND THE INSPECTIONS AND REPAIRS WILL BE MADE BY:
   NAME: TIM WILLIAMS
   ADDRESS: 200 GALLERIA PARKWAY SE, SUITE 900 ATLANTA, GA 30339
   PHONE (24 HR.): (404) 857-6165
4. IF FULL IMPLEMENTATION OF THE APPROVED PLANS DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
5. SANITARY SEWER EASEMENTS ARE TO BE STABILIZED WITH TEMPORARY AND PERMANENT VEGETATION AS SOON AS EACH SEGMENT IS COMPLETED. STREAM BANK RESTORATION AND STABILIZATION REQUIRED IN ALL DISTURBED STATE WATERS BUFFERS. THE STREAM BANK CANOPY IS TO BE RESTORED WITHIN THE STATE WATERS BUFFERS. GEOMAT AND RIP RAP ARE TO BE PLACED AS NECESSARY TO PREVENT EROSION WITHIN THE STREAM BANKS.

MAPPED SOIL TYPES

SOIL TYPE	DESCRIPTION	HYDROLOGIC SOIL GROUP
AmC	APPLING SANDY LOAM	B
CA	CARTECAY LOAM	B
CeB	CECIL SANDY LOAM	B
PaC	PACOLET SANDY LOAM, 6 TO 10 PERCENT SLOPES	B
PaE	PACOLET SANDY LOAM, 10 TO 25 PERCENT SLOPES	B

TAKEN FROM: USDA, NRCS WEB SOIL SURVEY FOR CLAYTON COUNTY, GEORGIA

24-HOUR ESCP EMERGENCY CONTACT
TIM WILLIAMS (404) 857-6165
TAWILLIAMS@RACETRAC.COM

SITE DATA CHECKLIST

TOTAL PARCEL AREA	± 6.64 AC
ZONING	HEAVY INDUSTRIAL; HIGHWAY 42 OVERLAY
ON-SITE DISTURBED AREA	± 6.64 AC
OFF-SITE DISTURBED AREA	± 3.45 AC
TOTAL DISTURBED AREA	± 10.09 AC

OWNER/DEVELOPER

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY S.E., SUITE 900
ATLANTA, GA 30339
TIM WILLIAMS
(404) 857-6165
TAWILLIAMS@RACETRAC.COM

20 10 5 0 20
1"= 20'

NO.	REVISION	BY	DATE
1	PHASE 2 BID PLANS	NF	10/27/22

BOHLER
211 PERIMETER CENTER PKWY NE, SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
GA@BohlerEng.com

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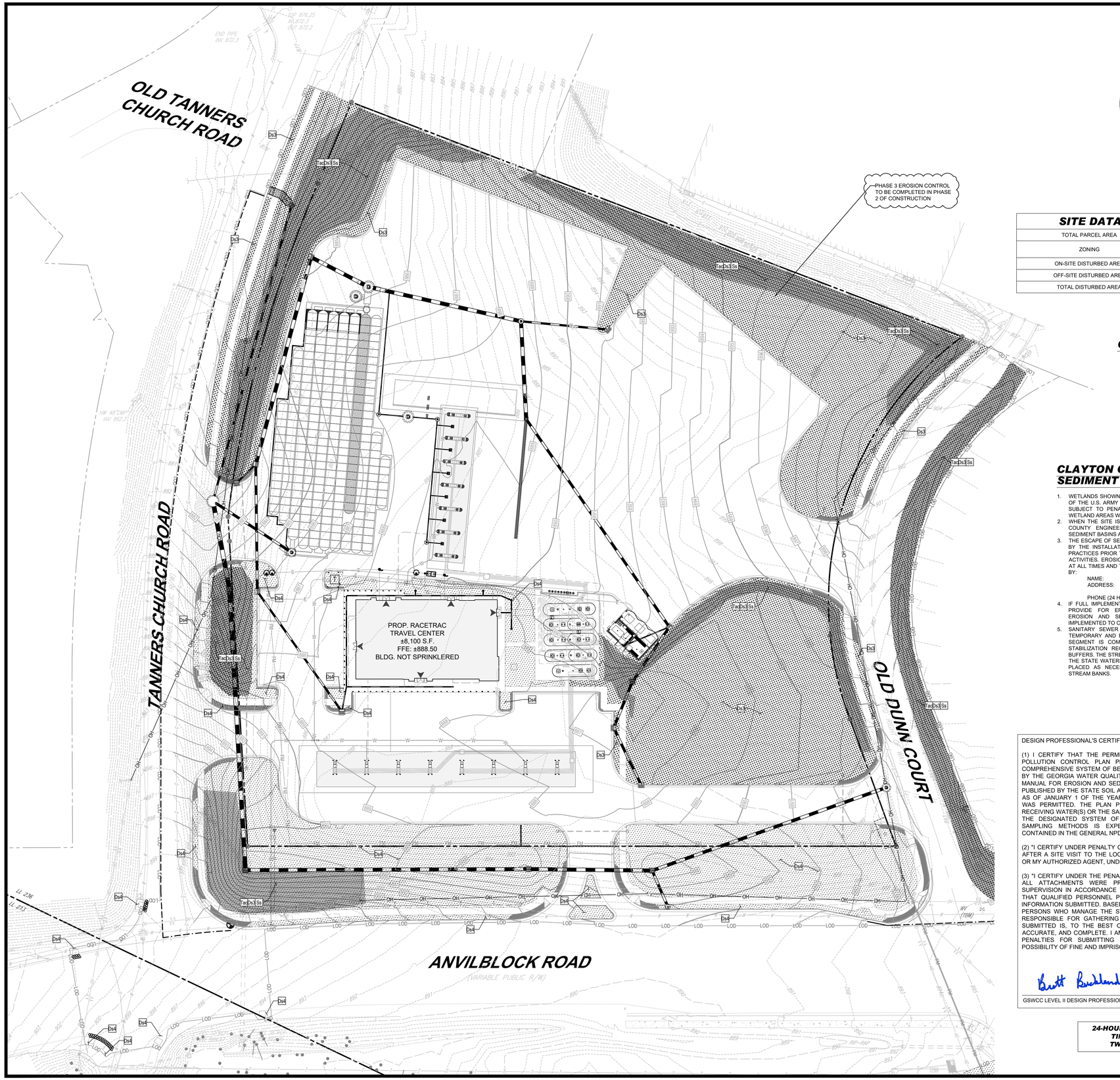
RaceTrac

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY SE, SUITE 900
ATLANTA, GA 30339
(404) 857-6165

E&S CONTROL PHASE II - ANVILBLOCK RIGHT TURN
4443 OLD DUNN COURT
ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	1"=20'
PROJECT No:	GA204012
C2.5	1
SHEET NO.	REVISION



SITE DATA CHECKLIST

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ZONING	HEAVY INDUSTRIAL; HIGHWAY 42 OVERLAY
ON-SITE DISTURBED AREA	± 6.64 AC
OFF-SITE DISTURBED AREA	± 3.45 AC
TOTAL DISTURBED AREA	± 10.09 AC

OWNER/DEVELOPER

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SUITE 900
ATLANTA, GA 30339
TIM WILLIAMS
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CLAYTON COUNTY EROSION & SEDIMENT CONTROL NOTES:

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   NAME: TIM WILLIAMS
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Brett Buckland

GSWCC LEVEL II DESIGN PROFESSIONAL

ISSUED: 05/08/2018
EXPIRES: 05/08/2024

0000083972
CERTIFICATION #

24-HOUR ESCP EMERGENCY CONTACT
TIM WILLIAMS 404-857-6165
TWILLIAMS@RACETRAC.COM

PHASE 3

1. ENSURE ALL PERMANENT PIPES ARE FULLY OPERATIONAL.
2. FINISH CURB/GUTTER AND PAVING OF SITE.
3. COMPLETE GRADING AND INSTALLATION OF PERMANENT STABILIZATION OVER ALL AREAS.
4. COMPLETE CONSTRUCTION OF BUILDING.
5. REMOVE ALL REMAINING TEMPORARY EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPS).
6. STABILIZE ANY AREAS DISTURBED BY THE REMOVAL OF TEMPORARY BMPS.
7. CONTINUE DAILY INSPECTIONS AND REPORTS UNTIL THE SITE IS FULLY STABILIZED AND THE GENERAL CONSTRUCTION PERMIT GAR1001 IS TERMINATED.

NOTE:
THE GENERAL CONTRACTOR MAY COMPLETE CONSTRUCTION-RELATED ACTIVITIES CONCURRENTLY, ONLY IF ALL PRECEDING BMPS AND STABILIZATION ACTIVITIES HAVE BEEN COMPLETELY INSTALLED. BMP-RELATED STEPS IN THE ABOVE SEQUENCE ARE BOLDED FOR CLARITY. THE CEC MUST APPROVE, IN WRITING, ANY CHANGES IN THE ABOVE SWPPP IMPLEMENTATION SEQUENCE, BEFORE THEIR IMPLEMENTATION BEGINS.

THE ESTIMATED DATES OF IMPLEMENTATION OF POLLUTION CONTROL MEASURES SHALL BE DOCUMENTED BY THE CONTRACTOR ON THE SOIL EROSION/SEDIMENTATION CONTROL OPERATION TIME SCHEDULE ON SHEET C2.11.

THE PROJECT WILL UTILIZE ONE UNDERGROUND DETENTION AND TREATMENT SYSTEM TO CONTROL POLLUTANTS. FURTHER, THE SITE WILL BE FULLY STABILIZED WITH PERMANENT SEEDING AND SODDING AS SHOWN. ALL STEEP SLOPES WILL USE SLOPE STABILIZATION MEASURES WITH HYDRAULIC EROSION CONTROL PRODUCTS.

EROSION & SEDIMENT CONTROL LEGEND

- LOD — LOD — LIMITS OF DISTURBANCE
- Ds4 — DISTURBED AREA STABILIZATION - SODDING
- Ds3 — DISTURBED AREA STABILIZATION - SEEDING
- Tac | Ds3 | Ss — SLOPE STABILIZATION - USE HYDRAULIC EROSION PRODUCTS (HECP) WITH TACKIFIERS ON ALL SLOPES 3:1 OR STEEPER. ALL PRODUCTS SHALL CONFORM TO THE LATEST GDOT SPECIFICATIONS AND APPROVED MATERIAL LISTS.

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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 TRAP SEDIMENT. ALL MATERIAL SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC - ROADWAY OR INTO STORM DRAIN MUST BE REMOVED.
3. PROVIDE GPS COORDINATES AT CONSTRUCTION EXIT AS REQUIRED ON THE NOTICE INTENT UNDER THE NPDES APPLICATION. (33.633207, -84.307504)
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6. OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.
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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.
12. TREE SAVE FENCE FOR THE ENTIRE SITE MUST BE INSTALLED, INSPECTED AND APPROVED PRIOR TO THE INSTALLATION OF EROSION CONTROL MEASURES. NO LAND DISTURBANCE OR DEMOLITION IS ALLOWED BEFORE TREE SAVE FENCING HAS BEEN INSPECTED.

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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.
ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING
EROSION & SEDIMENT CONTROLS, ROCK CONSTRUCTION ENTRANCE, AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
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40 20 10 0 40
1"= 40'

NO.	REVISION	BY	DATE
1	PHASE 2 BID PLANS	NF	10/27/22

BOHLER
211 PERIMETER CENTER PKWY NE,
SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
GA@BohlerEng.com

FOR BIDDING PURPOSES ONLY

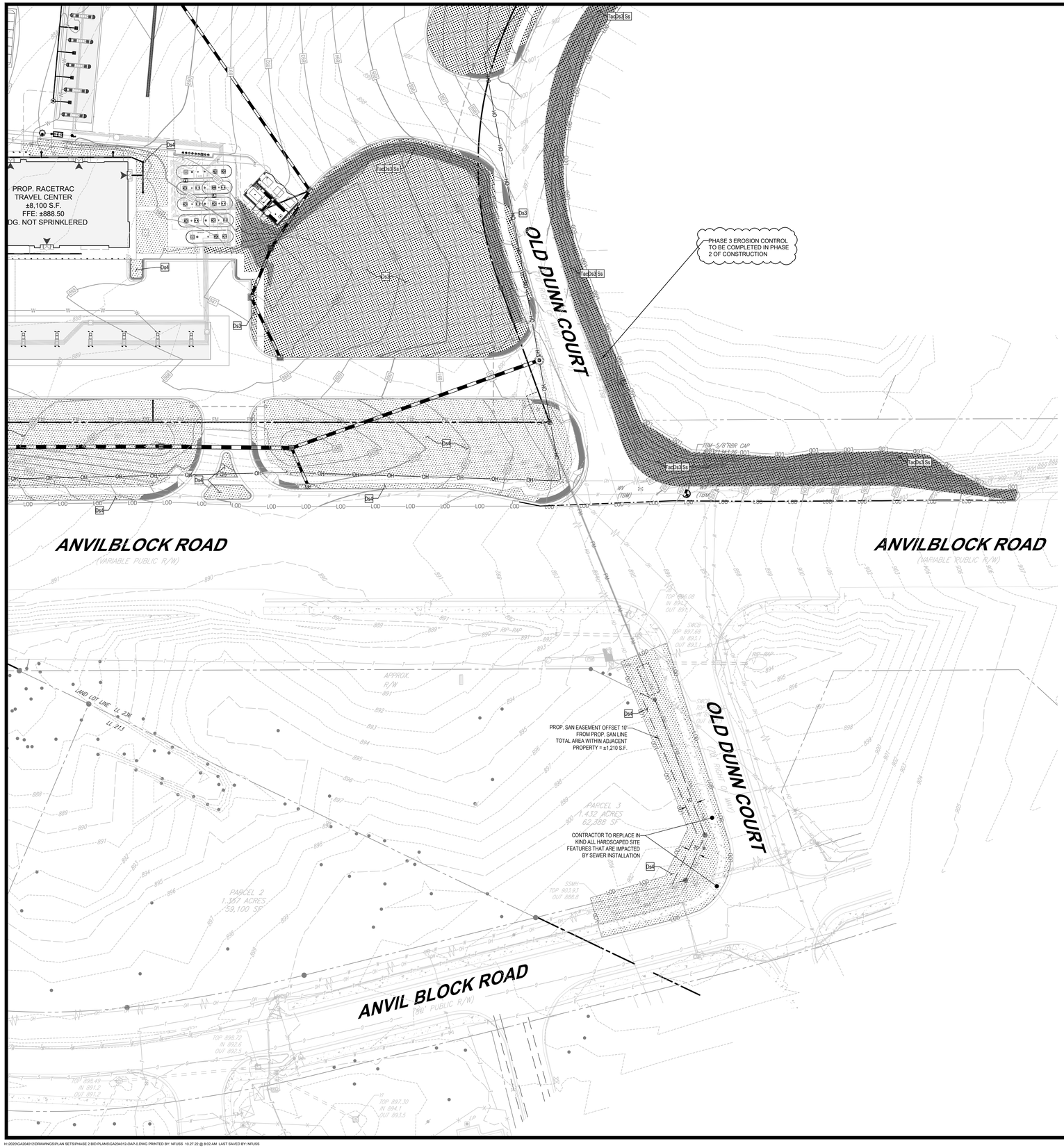
THESE PLANS ARE PROTECTED BY FEDERAL COPYRIGHT LAWS. ANY USE OF SAME WITHOUT THE EXPRESSED WRITTEN PERMISSION OF RACETRAC PETROLEUM, INC. IS PROHIBITED.

RACETRAC PETROLEUM, INC.
200 GALLERIA PKWY SE, SUITE 900
ATLANTA, GA 30339
(404) 857-6165

E&S CONTROL PHASE III

4443 OLD DUNN COURT
ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	1"=40'
PROJECT No: GA204012	
C2.6 (SHEET NO.)	1 (REVISION)



SITE DATA CHECKLIST

TOTAL PARCEL AREA	± 6.64 AC
ZONING	HEAVY INDUSTRIAL; HIGHWAY 42 OVERLAY
ON-SITE DISTURBED AREA	± 6.64 AC
OFF-SITE DISTURBED AREA	± 3.45 AC
TOTAL DISTURBED AREA	± 10.09 AC

OWNER/DEVELOPER

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY S.E.,
SUITE 900
ATLANTA, GA 30339
TIM WILLIAMS
(404) 557-6165
TAWILLIAMS@RACETRAC.COM

CLAYTON COUNTY EROSION & SEDIMENT CONTROL NOTES:

1. WETLANDS SHOWN ON THIS PLAN ARE UNDER THE JURISDICTION OF THE U.S. ARMY CORPS OF ENGINEERS. LOT OWNERS MAY BE SUBJECT TO PENALTY BY LAW FOR DISTURBANCE TO THESE WETLAND AREAS WITHOUT PROPER AUTHORIZATION.
2. WHEN THE SITE IS STABILIZED AND AT THE DIRECTION OF THE COUNTY ENGINEER, THE DEVELOPER IS TO REMOVE THE SEDIMENT BASINS AND STABILIZED THE DISTURBED AREA.
3. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES AND THE INSPECTIONS AND REPAIRS WILL BE MADE BY:

   NAME: TIM WILLIAMS
   ADDRESS: 200 GALLERIA PARKWAY SE, SUITE 900 ATLANTA, GA 30339
   PHONE (24 HR.): (404) 857-6165
4. IF FULL IMPLEMENTATION OF THE APPROVED PLANS DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
5. SANITARY SEWER EASEMENTS ARE TO BE STABILIZED WITH TEMPORARY AND PERMANENT VEGETATION AS SOON AS EACH SEGMENT IS COMPLETED. STREAM BANK RESTORATION AND STABILIZATION REQUIRED IN ALL DISTURBED STATE WATERS BUFFERS. THE STREAM BANK CANOPY IS TO BE RESTORED WITHIN THE STATE WATERS BUFFERS. GEOMAT AND RIP RAP ARE TO BE PLACED AS NECESSARY TO PREVENT EROSION WITHIN THE STREAM BANKS.

DESIGN PROFESSIONAL'S CERTIFICATION:

(1) 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 STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH LAND DISTURBING ACTIVITY WAS PERMITTED. THE PLAN PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALL. THE DESIGNATED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENT CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR GAR100001.

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Brett Buckland

GSWCC LEVEL II DESIGN PROFESSIONAL

ISSUED: 05/08/2018
EXPIRES: 05/08/2024

0000083972
CERTIFICATION #

24-HOUR ESCP EMERGENCY CONTACT
TIM WILLIAMS 404-857-6165
TWILLIAMS@RACETRAC.COM

PHASE 3

1. ENSURE ALL PERMANENT PIPES ARE FULLY OPERATIONAL.
2. FINISH CURB/GUTTER AND PAVING OF SITE.
3. COMPLETE GRADING AND INSTALLATION OF PERMANENT STABILIZATION OVER ALL AREAS.
4. COMPLETE CONSTRUCTION OF BUILDING.
5. REMOVE ALL REMAINING TEMPORARY EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPS).
6. STABILIZE ANY AREAS DISTURBED BY THE REMOVAL OF TEMPORARY BMPS.
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THE PROJECT WILL UTILIZE ONE UNDERGROUND DETENTION AND TREATMENT SYSTEM TO CONTROL POLLUTANTS. FURTHER, THE SITE WILL BE FULLY STABILIZED WITH PERMANENT SEEDING AND SODDING AS SHOWN. ALL STEEP SLOPES WILL USE SLOPE STABILIZATION MEASURES WITH HYDRAULIC EROSION CONTROL PRODUCTS.

EROSION & SEDIMENT CONTROL LEGEND

- LOD — LOD — LIMITS OF DISTURBANCE
- Ds4 — DISTURBED AREA STABILIZATION - SODDING
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40 20 10 0 40
1"= 40'

NO.	REVISION	BY	DATE
1	PHASE 2 BID PLANS	NF	10/27/22

BOHLER
211 PERIMETER CENTER PKWY NE,
SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
GA@BohlerEng.com

FOR BIDDING PURPOSES ONLY

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RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY SE, SUITE 900
ATLANTA, GA 30339
(404) 857-6165

E&S CONTROL PHASE III - OFFSITE SEWER

4443 OLD DUNN COURT
ELLENWOOD, GA 30294

DRAWN BY	DW / NF
DATE	10/27/2022
SCALE	1"=40'
PROJECT No: GA204012	
C2.7	1
SHEET NO.	REVISION

PHASE 3

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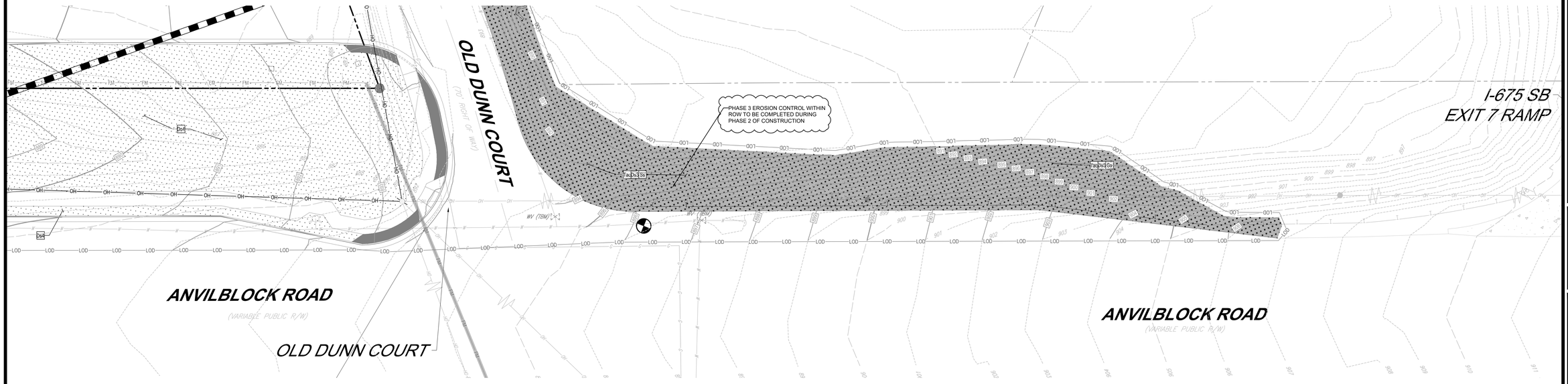

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Brett Buckland

GSWCC LEVEL II DESIGN PROFESSIONAL

ISSUED: 05/08/2018
EXPIRES: 05/08/2024

0000083972

CERTIFICATION #

EROSION & SEDIMENT CONTROL LEGEND

- LOD — LOD — LIMITS OF DISTURBANCE
- Ds4 — DISTURBED AREA STABILIZATION - SODDING
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   ADDRESS: 200 GALLERIA PARKWAY SE, SUITE 900 ATLANTA, GA 30339
   PHONE (24 HR.): (404) 857-6165
4. IF FULL IMPLEMENTATION OF THE APPROVED PLANS DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
5. SANITARY SEWER EASEMENTS ARE TO BE STABILIZED WITH TEMPORARY AND PERMANENT VEGETATION AS SOON AS EACH SEGMENT IS COMPLETED. STREAM BANK RESTORATION AND STABILIZATION REQUIRED IN ALL DISTURBED STATE WATERS BUFFERS. THE STREAM BANK CANOPY IS TO BE RESTORED WITHIN THE STATE WATERS BUFFERS. GEOMAT AND RIP RAP ARE TO BE PLACED AS NECESSARY TO PREVENT EROSION WITHIN THE STREAM BANKS.

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.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING

EROSION & SEDIMENT CONTROLS, ROCK CONSTRUCTION ENTRANCE, AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.

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 OR AS DIRECTED BY THE EROSION CONTROL INSPECTOR.

WASHOUT OF CONCRETE DRUMS AT THE CONSTRUCTION SITE IS PROHIBITED.

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

24-HOUR ESCP EMERGENCY CONTACT
TIM WILLIAMS (404) 857-6165
TAWILLIAMS@RACETRAC.COM

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

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.

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 TEMPORARY ROOF.
B. ALL PETROLEUM STORAGE CONTAINERS SHALL BE LOCATED IN A SECONDARY CONTAINMENT AREA.

SITE DATA CHECKLIST

TOTAL PARCEL AREA	± 6.64 AC
ZONING	HEAVY INDUSTRIAL; HIGHWAY 42 OVERLAY
ON-SITE DISTURBED AREA	± 6.64 AC
OFF-SITE DISTURBED AREA	± 3.45 AC
TOTAL DISTURBED AREA	± 10.09 AC

20 10 5 0 20
1"= 20'

OWNER/DEVELOPER

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY S.E.,
SUITE 900
ATLANTA, GA 30339
TIM WILLIAMS
(404) 857-6165
TAWILLIAMS@RACETRAC.COM

NO.	BY	DATE
1	NF	10/27/22

PHASE 2 BID PLANS — REVISION

BOHLER
211 PERIMETER CENTER PKWY NE,
SUITE 425
ATLANTA, GEORGIA 30346
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FOR BIDDING PURPOSES ONLY

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RaceTrac

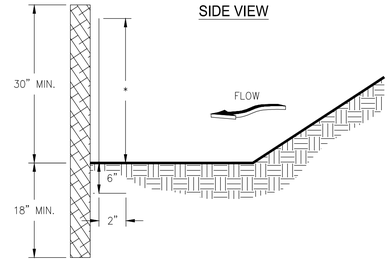
RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY SE, SUITE 900
ATLANTA, GA 30339
(404) 857-6165

E&S CONTROL PHASE III - ANVILBLOCK RIGHT TURN
4443 OLD DUNN COURT
ELLENWOOD, GA 30294

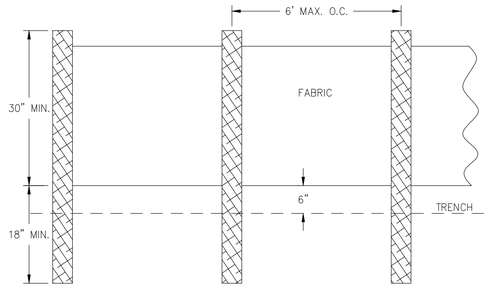
DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	1"=20'
PROJECT No: GA2014012	
C2.8	1
SHEET NO.	REVISION

SILT FENCE - TYPE NON-SENSITIVE

SIDE VIEW

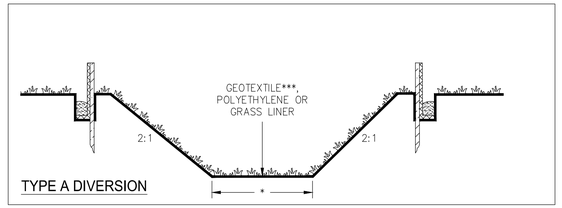


FRONT VIEW

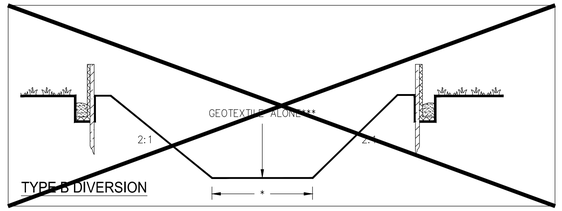


NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

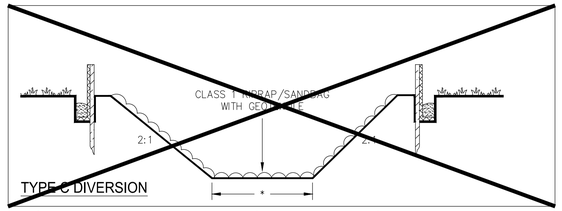
TO BE SHOWN ON EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN



TYPE A DIVERSION



TYPE B DIVERSION

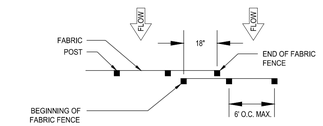


TYPE C DIVERSION

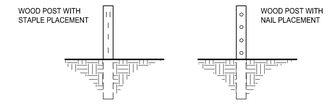
* 6" MINIMUM OR WIDTH OF EXISTING STREAM (WHICHEVER IS GREATER)
** SEDIMENT BARRIER AND FILTER CLOTH SHOULD BE ENTRENCHED IN THE SAME TRENCH.
***GEOTEXTILE SHALL BE SPECIFIED IN ACCORDANCE WITH AASHTO M288-96 SECTION 7.5

FASTENERS FOR SILT FENCES

OVERLAP AT FABRIC ENDS



TOP VEIW - NOT TO SCALE



FRONT VIEWS - NOT TO SCALE

NOTES:
1. THE FABRIC AND WIRE SHOULD BE SECURELY FASTENED TO POSTS AND FABRIC ENDS MUST BE OVERLAPPED A MINIMUM OF 18" OR WRAPPED TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS FABRIC BARRIER AROUND THE INLET.

Table 6-27.2 Post Size

Type	"Min Length"	"Type of Post"	Size of Post
NS	4'	Soft wood Oak Steel	"3"dia or 2x4 1.5" x1.5" 1.15lb./ft. min"
S	4'	"Steel Oak"	"1.15-1.25 lb./ ft. min 2"X2""

Table 6-27.3 Fasteners for Wood Posts

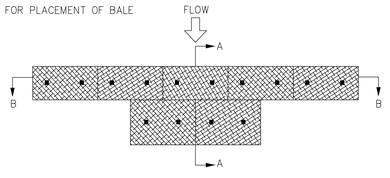
	Gauge	Crown	Legs	"Staples / Post"
"Wire Staples"	17 min.	"3/4" wide"	"1/2" long"	5 min.
	Gauge	Length	"Button Heads"	Nail/ Post
Nails	14 min.	1"	3/4"	4 min.

Note: Filter Fabric may also be attached to the post by wire, cords, and pockets.

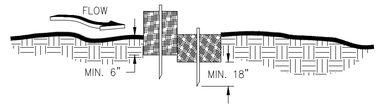
TYPICAL STRAW BALE CHECK DAM

Cd-Hb

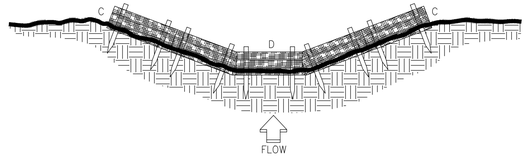
PLAN



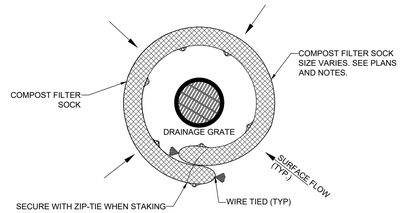
SECTION A-A



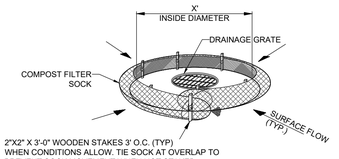
SECTION B-B



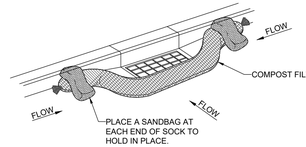
NOTES:
1. BALES SHOULD BE BOUND WITH WIRE OR NYLON STRING AND SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. REMOVE #4 REBAR AFTER STRAW BALES ARE NO LONGER IN PLACE.
3. POINT C OF SECTION B-B SHOULD ALWAYS BE HIGHER THAN POINT D.



DROP INLET PLAN
N.T.S.



DROP INLET
PERSPECTIVE VIEW
N.T.S.



CURB INLET
PERSPECTIVE VIEW
N.T.S.

USAGE NOTES:

1. ANCHORING STAKES SHALL BE SIZED, SPACED, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE FILTER SOCK. STAKE SPACING SHALL BE A MAXIMUM OF THREE FEET.
2. OVERLAP ENDS OF SOCK PER MANUFACTURERS RECOMMENDATIONS. (1" MIN. 3' MAX.)
3. USE 8" TO 12" DIA. SOCK ON CURBSIDE IN TRAFFIC AREAS.
4. USE 12" - 18" DIA. SOCK IN NON-TRAFFIC AREAS OR AREAS WHERE SAFETY IS NOT A CONCERN.

DESIGN CRITERIA:

COMPOST FILTER SOCKS ARE DESIGNED TO RETAIN SEDIMENT TRANSPORTED IN SHEET FLOW FROM DISTURBED AREAS. COMPOST FILTER SOCKS PERFORM THE SAME FUNCTION AS SILT FENCE. ALLOW A HIGHER FLOW RATE, AND ARE USUALLY FASTER AND CHEAPER TO INSTALL. WHERE ALL RUNOFF IS TO BE TREATED BY THE COMPOST FILTER SOCK THE MAXIMUM SLOPE LENGTH BEHIND THE COMPOST FILTER SOCK SHALL NOT EXCEED THOSE SHOWN IN TABLE 1. THE DRAINAGE AREA SHALL NOT EXCEED ¼ ACRE FOR EVERY 100 FT OF COMPOST FILTER SOCK.

THE SEDIMENT AND POLLUTANT REMOVAL PROCESS CHARACTERISTIC TO COMPOST FILTER SOCKS COMBINES BOTH FILTERING AND DEPOSITION FROM SETTLING SOLIDS. THIS IS DIFFERENT THAN METHODS THAT RELY ON PONDING FOR DEPOSITION OF SOLIDS FOR SEDIMENT CONTROL, SUCH AS SILT FENCE. PONDING OCCURS WHEN WATER FLOWING TO THE COMPOST FILTER SOCK ACCUMULATES FASTER THAN THE HYDRAULIC FLOW THROUGH RATE OF THE COMPOST FILTER SOCK. HYDRAULIC FLOW-THROUGH RATES FOR COMPOST FILTER SOCKS ARE 50% GREATER THAN SILT FENCE FILTER FABRIC. GREATER HYDRAULIC FLOW-THROUGH RATES REDUCE PONDING. COMPOST FILTER SOCK MESH NETTING SHALL MEET THE NETTING SPECIFICATION IN TABLE 2. COMPOST FILTER SOCKS SHALL MEET THE SPECIFICATIONS IN TABLE 3. COMPOST USED IN COMPOST FILTER SOCKS SHALL MEET THE SPECIFICATION DESCRIBED UNDER COMPOST FILTER MEDIA SPECIFICATIONS.

A 12 INCH DIAMETER COMPOST FILTER SOCK SHALL BE USED ON DEVELOPMENTS WHERE THE LIFE OF THE PROJECT IS GREATER THAN OR EQUAL TO SIX MONTHS. A 12 INCH DIAMETER COMPOST FILTER SOCK MAY ALSO BE USED ON MINOR PROJECTS, SUCH AS RESIDENTIAL HOME SITES OR SMALL COMMERCIAL DEVELOPMENTS.

TABLE 1

LAND SLOPE	MAXIMUM SLOPE LENGTH ABOVE COMPOST FILTER SOCK
PERCENT	FEET
<2	100
2 TO 5	75
5 TO 10	50
10 TO 20	25
>20*	15

*IN AREAS WHERE THE SLOPE IS GREATER THAN 20% , A FLAT AREA LENGTH OF 10 FT BETWEEN THE TOE OF THE SLOPE TO THE COMPOST FILTER SOCK SHOULD BE PROVIDED.

TABLE 2

MATERIAL TYPE	MULTI-FILIMENT POLYPROPYLENE	MULTI-FILIMENT POLYPROPYLENE
MATERIAL CHARACTERISTIC	PHOTODEGRADABLE	PHOTODEGRADABLE
MESH OPENING	3/8" (10MM)	1/8" (3MM)
**TENSILE SREGNTH (ASTM 5035-95)*	44 PSI (3.09 KG/CM2)	202 PSI (14.2 KG/CM2)*
%ORGINAL STRENGTH FROM ULTRAVIOLET EXPOSURE (ASTM G-155)	100% AT 1000 HR	100% AT 1000 HR

TABLE 3

	12" (300MM) DIAMETER
EFFECTIVE CIRCUMFERENCE	36" (960mm)
DENSITY (WHEN FILLED)	32 LBS/FT (50 KG/M)
AIR SPACE	20%
HYDRAULIC FLOW RATE	11.3 GPM/FT (141L/MIN/M)
P FACTOR (RUSLE)	0.1 - 0.32

COMPOST FILTER MEDIA SPECIFICATIONS:

COMPOST USED FOR COMPOST FILTER SOCK FILLER MATERIAL (FILTER MEDIA) SHALL BE WEED FREE AND DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER. THE COMPOST SHALL BE PRODUCED USING AN AEROBIC COMPOSTING PROCESS MEETING CFR 503 REGULATIONS INCLUDING TIME AND TEMPERATURE DATA. THE COMPOST SHALL BE FREE OF ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH. NON-COMPOSTED PRODUCTS WILL NOT BE ACCEPTED. TEST METHODS FOR THE ITEMS BELOW SHOULD FOLLOW US COMPOSTING COUNCIL TEST METHODS FOR THE EXAMINATION OF COMPOSTING AND COMPOST GUIDELINES FOR LABORATORY PROCEDURES:

A. PH – 5.0-8.0 IN ACCORDANCE WITH TMECC 04.11-A, "ELECTROMETRIC PH DETERMINATIONS FOR COMPOST"

B. PARTICLE SIZE – 99% PASSING A 2 IN (50MM) SIEVE AND A MAXIMUM OF 40% PASSING A 3/8 IN (9.5MM) SIEVE, IN ACCORDANCE WITH TMECC 02.02-B, "SAMPLE SIEVING FOR AGGREGATE SIZE CLASSIFICATION". (NOTE- IN THE FIELD, PRODUCT COMMONLY IS BETWEEN ½ IN [12.5MM] AND 2 IN [50MM] PARTICLE SIZE.)

C. MOISTURE CONTENT OF LESS THAN 60% IN ACCORDANCE WITH STANDARDIZED TEST METHODS FOR MOISTURE DETERMINATION.

D. MATERIAL SHALL BE RELATIVELY FREE (<1% BY DRY WEIGHT) OF INERT OR FOREIGN MAN MADE MATERIALS.

E. A SAMPLE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO BEING USED AND MUST COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

CONSTRUCTION SPECIFICATIONS

THE COMPOST FILTER SOCK SHALL BE INSTALLED ACCORDING TO THIS SPECIFICATION, AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

1. COMPOST FILTER SOCKS SHOULD BE INSTALLED PARALLEL TO THE BASE OF THE SLOPE OR OTHER DISTURBED AREA, IN EXTREME CONDITIONS (I.E., 2:1 SLOPES). A SECOND COMPOST FILTER SOCK SHALL BE CONSTRUCTED AT THE TOP OF THE SLOPE.
2. STAKES SHALL BE INSTALLED THROUGH THE MIDDLE OF THE COMPOST FILTER SOCK ON 10 FT (3M) CENTERS, USING 2 IN (50MM) BY 2 IN (50MM) BY 3 FT (1M) WOODEN STAKES. IN THE EVENT STAKING IS NOT POSSIBLE, I.E., WHEN COMPOST FILTER SOCKS ARE USED ON PAVEMENT, HEAVY CONCRETE BLOCKS SHALL BE USED BEHIND THE COMPOST FILTER SOCKS TO HELP STABILIZE DURING RAINFALL/RUNOFF EVENTS.
3. STAKING DEPTH FOR SAND AND SILT LOAM SOILS SHALL BE 12 IN (300MM), AND 8 IN (200MM) FOR CLAY SOILS.
4. LOOSE COMPOST MAY BE BACKFILLED ALONG THE UPSLOPE SIDE OF THE COMPOST FILTER SOCK, FILLING THE SEAM BETWEEN THE SOIL SURFACE AND THE DEVICE, IMPROVING FILTRATION AND SEDIMENT RETENTION.
5. IF THE COMPOST FILTER SOCK IS TO BE LEFT AS A PERMANENT FILTER OR PART OF THE NATURAL LANDSCAPE, IT MAY BE SEEDED AT TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION. THE ENGINEER WILL SPECIFY SEED REQUIREMENTS.
6. COMPOST FILTER SOCKS ARE NOT TO BE USED IN PERENNIAL, EPHEMERAL, OR INTERMITTENT STREAMS.

MAINTENANCE

SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER. COMPOST FILTER SOCKS SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF COMPOST FILTER SOCK IS REDUCED. COMPOST FILTER SOCKS SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ALL SEDIMENT ACCUMULATION AT THE COMPOST FILTER SOCK SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE COMPOST FILTER SOCK IS REMOVED.

CFS

COMPOST FILTER SOCK

NOT TO SCALE

NO.	BY	DATE
1	NF	10/27/22

PHASE 2 BID PLANS
REVISION

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E&S CONTROL DETAILS

4443 OLD DUNN COURT

ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	NTS
PROJECT No: GA204012	
C2.9	1
SHEET NO.	REVISION

TEMPORARY SEDIMENT TRAP

Sd4-C

DEFINITION

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.

PURPOSE

TO COLLECT AND STORE SEDIMENT FROM UPHILL SITES CLEARED AND OR GRADED DURING CONSTRUCTION. INTENDED FOR USE ON SMALL TRIBUTARY AREAS WITH NO UNUSUAL DRAINAGE FEATURES. EFFECTIVE AGAINST COARSE SEDIMENT, BUT NOT AGAINST SILT OR CLAY PARTICLES THAT REMAIN SUSPENDED.

CONDITIONS

TEMPORARY SEDIMENT TRAPS ARE CONSTRUCTED EARLY IN THE CONSTRUCTION PROCESS AT LOCATIONS THAT WILL REQUIRE MINIMAL CLEARING AND GRADING. NATURAL DRAWS OR SWELLS ARE FAVORABLE LOCATIONS TO BUILD THE TRAPS. THEY SHOULD BE EASILY ACCESSIBLE FOR FREQUENT MAINTENANCE AND INSPECTIONS. TEMPORARY SEDIMENT TRAPS SHALL NEVER BE PLACED IN LIVE STREAMS.

DESIGN CRITERIA

DESIGN AND CONSTRUCTION SHALL COMPLY WITH LAWS, ORDINANCES, RULES AND REGULATIONS ON THE LOCAL, STATE AND FEDERAL LEVEL.

THE TOTAL DRAINAGE AREA OF A TEMPORARY SEDIMENT TRAP IS UP TO 5 ACRES, DEPENDING ON TYPE OF CONSTRUCTION.

THE HEIGHT OF A TEMPORARY SEDIMENT TRAP EMBANKMENT SHALL NOT EXCEED 5.5 FEET AS MEASURED FROM THE DOWNSTREAM TOE OF SLOPE TO THE TOP OF THE BERM. TOP WIDTH OF AN EMBANKMENT SHALL BE

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AT LEAST AS WIDE AS THE HEIGHT OF THE SEDIMENT TRAP EMBANKMENT, WITH A MINIMUM WIDTH OF 3 FEET.
MAXIMUM POND DEPTH OF A SEDIMENT TRAP IS 4 FEET AS MEASURED FROM THE BOTTOM OF THE TRAP TO THE INVERT OF THE EMERGENCY SPILLWAY. SLOPES SHALL NOT EXCEED 2:1 (H:V) FOR EXCAVATED AREAS AND FOR COMPACTED EMBANKMENTS. SIDE SLOPES SHOULD BE (3:1) OR FLATTER ALLOWING PEOPLE AND EQUIPMENT TO SAFELY NEGOTIATE SLOPES OR TO ENTER THE SEDIMENT TRAP.

THE LENGTH TO WIDTH RATIO MUST BE GREATER THAN (2:1) (L:W) FOR THE PRINCIPAL FLOWPATHS IN ORDER TO MAXIMIZE RESIDENCE TIME OF STORMWATER WITHIN THE SEDIMENT TRAP. BAFFLES MAY BE REQUIRED TO PREVENT SHORT-CIRCUITING OF THE FLOW.

A TYPICAL BAFFLE DESIGN USES 4'X8' SHEETS OF EXTERIOR GRADE PLYWOOD 1/2 INCH THICK, MOUNTED ON 4"X4" HARDWOOD POSTS.

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VOLUME
MINIMUM VOLUME OF A TEMPORARY SEDIMENT TRAP SHALL BE 67 CUBIC YARDS PER ACRE FOR THE TOTAL DRAINAGE AREA. THE VOLUME SHALL BE MEASURED AT AN ELEVATION EQUIVALENT TO THE SPILLWAY INVERT.

VOLUME OF A TEMPORARY SEDIMENT TRAP IN HEAVILY DISTURBED AREAS SHOULD BE 134 CUBIC YARDS PER ACRE FOR THE TOTAL DRAINAGE AREA. THIS INCLUDES AN UPPER AREA WITH A MINIMUM OF 67 CUBIC YARDS PER ACRE DRAINED, WHICH IS DEWATERED USING ONE OF THE OUTLET DESIGN METHODS PROVIDED, AND A LOWER WET ZONE FOR SEDIMENT STORAGE AND SETTLING.

THE VOLUME SHOULD BE CALCULATED FROM EXISTING AND PROPOSED CONTOURS, OR BY MEASURED CROSS SECTIONS. AN APPROXIMATE METHOD FOR CALCULATING THE VOLUME OF TRAPS USING A NATURAL DRAW IS:

V = 0.4 X A X D
V = SEDIMENT STORAGE VOLUME (BELOW INVERT OF EMERGENCY SPILLWAY)
A = SURFACE AREA (AT LEVEL OF EMERGENCY SPILLWAY)
D = MAXIMUM DEPTH (FROM EMERGENCY SPILLWAY INVERT)

THE CLEANOUT VOLUME FOR A TEMPORARY SEDIMENT TRAP IS 1/3 OF THE TOTAL STORAGE VOLUME. CLEANOUT VOLUME SHALL BE CALCULATED AND MARKED WITH A STAKE AT THE OUTLET OF THE TRAP.

CONSTRUCTION SPECIFICATIONS

THE BASIC DESIGN GUIDELINES ARE APPLICABLE TO THE TYPE OF TEMPORARY SEDIMENT TRAP CONSTRUCTED. THE MAIN DIFFERENCES ARE WITH REGARDS TO THE TYPE OF OUTLET STRUCTURES. THE FOLLOWING TYPES OF CONSTRUCTION ARE ACCEPTABLE UNDER THE DESIGNATED CONDITIONS:

OVERFLOW (SD4-A)

AN OVERFLOW TEMPORARY SEDIMENT TRAP IS LIMITED TO SMALL AREAS LESS THAN 1 ACRE, TYPICALLY WITH GENTLE SLOPES (1 OR 2 PERCENT) AND WITHOUT MAJOR GRADING OPERATIONS. THE MAXIMUM LIFE SPAN OF AN OVERFLOW TRAP IS 6 MONTHS. IF WATER ENTERS THE TRAP WITH VERY LOW VELOCITIES, THE SAME AMOUNT OF WATER WILL BE SLOWLY DISPLACED AND LEAVE THE OTHER END OF THE SEDIMENT TRAP. SILT FENCE, STRAW BALE BARRIERS OR GRASS FILTER STRIPS ARE USED TO "POLISH" THE OVERFLOW WATER AS IT LEAVES THE SEDIMENT TRAP. SEE FIGURE 6-30.1

COMBINATION STRAW BALE AND SILT FENCE OUTLET (SD4-B)
THE COMBINATION OUTLET USES STRAW BALES AND SILT FENCE TO DEWATER THE SEDIMENT TRAP. PROPER INSTALLATION AND STAKING OF THE STRAW BALES, AND WIRE BACKING ON THE SILT FENCE ARE REQUIRED FOR THE MATERIALS TO RESIST THE FORCE OF PONDED WATER. THE COMBINATION STRAW BALE AND SILT FENCE OUTLET IS LIMITED TO 1 ACRE TOTAL DRAINAGE AREA, AND HAS A LIFE SPAN OF LESS THAN 1 YEAR. THIS TYPE OF OUTLET REQUIRES FREQUENT MAINTENANCE AND ADJUSTMENTS TO ENSURE THE RELEASED STORMWATER IS FREE FROM SEDIMENT. SEE FIGURE 6-30.2

ROCK OUTLET (SD4-C)

THE ROCK OUTLET RELIES ON FILTERING THROUGH LAYERS OF AGGREGATE, ROCK OR RIPRAP MATERIAL TO DEWATER THE SEDIMENT TRAP. IT IS THE STURDIEST OF THE SEDIMENT TRAP DESIGNS AND GENERALLY REQUIRES LESS MAINTENANCE. IT CAN BE USED FOR DRAINAGE AREA UP TO 5 ACRES AND HAS A LIFE SPAN OF 1 YEAR. SEE FIGURE 6-30.3

EMERGENCY SPILLWAY

THE EMERGENCY OVERFLOW OUTLET OF A TEMPORARY SEDIMENT TRAP MUST BE STABILIZED WITH ROCK, GEOTEXTILE, VEGETATION, OR ANOTHER SUITABLE MATERIAL THAT IS RESISTANT TO EROSION. IT MUST BE INSTALLED TO SAFELY CONVEY STORMWATER RUNOFF FOR THE 10-YEAR STORM EVENT.

REFERENCE:

CITY OF KNOXVILLE BMP MANUAL BEST MANAGEMENT PRACTICES, KNOXVILLE, TN, MAY 2003

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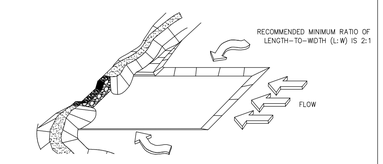
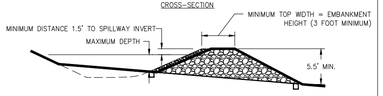
TEMPORARY SEDIMENT TRAP

COURTESY OF CITY OF KNOXVILLE BMP EROSION AND SEDIMENT

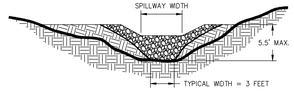
ROCK OUTLET



CROSS-SECTION



PROFILE THROUGH EMBANKMENT



NOTES:

1. SUBSTANCES THAT HAVE THE POTENTIAL FOR POLLUTING SURFACE AND/OR GROUNDWATER MUST BE CONTROLLED BY ANY MEANS NECESSARY TO ENSURE THAT THOSE DO NOT DISCHARGE FROM THE SITE. IN THIS REGARD, POTENTIALLY POLLUTING SUBSTANCES SHALL BE STORED AND HANDLED IN A MANNER CONSISTENT WITH THE RISK OF IMPACT THOSE REPRESENT, AND ACCORDING WITH THE REGULATIONS.
2. NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, ARE ALLOWED TO BE DISCHARGED FROM THE SITE WITH STORMWATER. ALL SOLID WASTE, INCLUDING DISPOSABLE MATERIALS INCIDENTAL TO THE CONSTRUCTION ACTIVITIES, MUST BE COLLECTED AND PLACED IN CONTAINERS. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE. THE CONTAINERS SHALL BE HAULED AWAY FROM THE SITE AND EMPTIED WHEN THOSE BECOME 95% FULL, OR AS NECESSARY, BY A CERTIFIED TRASH DISPOSAL SERVICE. LIDS OR COVERS FOR THE CONTAINERS SHALL BE PROVIDED FOR USE DURING RAIN EVENTS TO PREVENT WASTE CONTACT WITH STORMWATER. WASTES THAT CANNOT BE STORED IN A CONTAINER MUST BE STORED UNDER COVER OR INDOORS. THE LOCATION OF SOLID WASTE RECEPTACLES SHALL BE SHOWN ON THE SITE MAPS.

SWD — SOLID WASTE DISPOSAL

NOTES:

1. CONTRACTOR SHALL PROVIDE DESIGNATED LOCATION FOR SORTING AND SEPARATING HAZARDOUS WASTES.
2. HAZARDOUS WASTE STORAGE MUST BE PROTECTED FROM WEATHER ELEMENTS AND HAVE RESTRICTED ACCESS.
3. HAZARDOUS WASTE STORAGE MUST COMPLY WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
4. HAZARDOUS WASTE STORAGE MUST COMPLY WITH CONTRACT DOCUMENTS.

HWD — HAZARDOUS WASTE DISPOSAL

NOTES:

1. ALL PERSONNEL INVOLVED WITH CONSTRUCTION ACTIVITIES MUST COMPLY WITH STATE AND LOCAL SANITARY OR SEPTIC SYSTEM REGULATIONS. PORTABLE TOILETS MUST BE LOCATED AT LEAST 30 FEET FROM INLETS, CHANNELS, SWALES, OR PERMITTED LIMITS OF DISTURBANCE, AND MUST BE LOCATED AT LEAST 50 FEET FROM WATERS OF THE STATE, OR WATERS OF THE U.S.. PORTABLE TOILETS MUST BE SECURELY ANCHORED AND/OR TIED DOWN. SECONDARY CONTAINMENT SHALL BE PROVIDED AND FULL CAPACITY SHALL BE RESTORED IMMEDIATELY UPON DISCOVERY OF ITS DIMINISHMENT. THE LOCATION OF SANITARY FACILITIES SHALL BE SHOWN ON THE SITE MAPS.
2. REFERENCE THE MEMPHIS AND SHELBY COUNTY BMP MANUAL ACTIVITIES AND METHODS SECTION AM-09

SAF — SANITARY FACILITIES

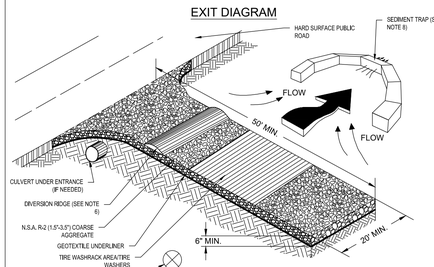
NOTES:

1. PROVIDE WASH STATION IN A LOCATION PROTECTED FROM WEATHER ELEMENTS.
2. COLLECT ALL USED WASH WATER AND DISPOSE OF IT PROPERLY.
3. PROVIDE ADEQUATE SUPPLY OF WATER AND ANY OTHER SUPPLIES TO ENSURE PROPER OPERATION OF WASH STATION WHEN NEEDED.

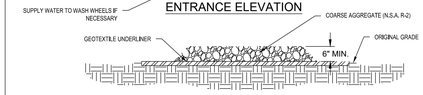
PSW — PAINT AND STUCCO WASHOUT

CRUSHED STONE CONSTRUCTION EXIT

EXIT DIAGRAM



ENTRANCE ELEVATION



NOTES:

1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%..
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

CO

NOTES:

1. ALL ON-SITE TOPSOIL MUST BE PRESERVED FOR REUSE ON THE SITE DURING REVEGETATION. UNLESS IT IS INFEASIBLE OR UNREASONABLE TO DO SO, (NOTE: TOPSOIL STOCKPILING ON-SITE MAY BE INFEASIBLE IF SPACE IS NOT AVAILABLE ON-SITE FOR TOPSOIL STOCKPILING OR IF LITTLE TO NO VEGETATION IS TO REMAIN UNDER POST-CONSTRUCTION CONDITIONS. STOCKPILING OF TOPSOIL AT AN OFF-SITE LOCATION OR TRANSFER OF TOPSOIL TO OTHER LOCATIONS MAY ALSO BE ACCEPTABLE BUT MUST BE AUTHORIZED BY THE CEC).
2. ALL SOIL STOCKPILES MUST BE STABILIZED TO PREVENT EROSION AND FUGITIVE DUST. THE SURFACE OF THE STOCKPILE MUST BE PROPERLY PROTECTED TO ELIMINATE THE RISK OF EROSION. SEE TEMPORARY SEEDING OR STABILIZATION DETAIL. SUITABLE ALTERNATIVE MEANS OF STABILIZATION CAN BE USED, SUCH AS PROPERLY ANCHORED PLASTIC TARPS.
3. PERIMETER SEDIMENT CONTROLS ALSO MUST BE INSTALLED AT STOCKPILE LOCATIONS TO PREVENT CONTACT WITH STORMWATER, INCLUDING RUN-ON.
4. STOCKPILES MUST BE LOCATED OUTSIDE OF ANY VEGETATED BUFFER AREAS AND SHOULD BE LOCATED AS FAR AS PRACTICABLE FROM STORMWATER CONVEYANCES AND IMPOUNDMENTS AND WATER BODIES.

SP — STOCKPILES

NOTES:

1. THE GC SHALL IDENTIFY MASONS' AREA WITH LEGIBLE SIGNAGE ON THE SITE. TO THE EXTENT PRACTICAL, ALL MASONRY TOOLS, MATERIAL, INCLUDING SAND AND SACKED CEMENT AND/OR MORTAR MATERIALS, MIX, AND EQUIPMENT SHALL BE LOCATED WITHIN THE AREA IDENTIFIED. MATERIALS VULNERABLE TO WEATHER ELEMENTS SHALL BE STORED IN CONTAINERS AT THE END OF EACH WORK DAY; SUCH MATERIALS SHALL REMAIN STORED IN CONTAINERS WHEN NOT IN USE.
2. RUNOFF CONTROL, SUCH AS DIVERSION BERMS, SILT FENCE, SILT DIKE, OR OTHER MEANS OF CONTAINMENT SHALL BE PROVIDED TO PREVENT THE MIGRATION OF STORMWATER POLLUTANTS FROM THE MASONS' AREA. COVERED RECEPTACLES FOR DEBRIS AND TRASH DISPOSAL SHALL ALSO BE PROVIDED.
3. THE MASONS' AREA SHALL MEET OSHA AND OTHER REGULATORY REQUIREMENTS FOR PERSONAL PROTECTIVE EQUIPMENT (PPE), FIRE EXTINGUISHERS, ETC. GC SHALL PROVIDE SCREENING OR OTHER TECHNOLOGIES FOR MASONS' AREA TO PREVENT AIRBORNE TRANSPORT OF CEMENT DUST AND OTHER PARTICULATES DUE TO HIGH SPEED WIND OR OTHER CONDITIONS. THE LOCATION OF THE MASONS' AREA SHALL BE SHOWN ON THE SITE MAPS.

MA — MASONS' AREA

NOTES:

1. THE GC SHALL DESIGNATE AREAS ON THE SITE MAPS FOR EQUIPMENT CLEANING, MAINTENANCE, AND REPAIR. THE GC AND SUBCONTRACTORS SHALL UTILIZE SUCH DESIGNATED AREAS. CLEANING, MAINTENANCE, AND REPAIR AREAS SHALL BE PROTECTED BY A TEMPORARY PERIMETER BERM, SHALL NOT OCCUR WITHIN 150 FEET OF ANY WATERWAY, WATER BODY OR WETLAND, AND SHALL OCCUR IN AREAS LOCATED AS FAR AS PRACTICAL FROM STORM SEWER INLETS. DRIP PANS SHALL BE USED FOR VEHICLE MAINTENANCE ACTIVITIES AND RESULTANT WASTES SHALL BE DISPOSED OF IN ACCORDANCE WITH THE HAZARDOUS MATERIAL MANAGEMENT AND SPILL REPORTING PLAN NOTES INCLUDED ON THIS PLAN SHEET.
2. USE OF DETERGENTS FOR LARGE SCALE WASHING IS PROHIBITED (FOR EXAMPLE, WASHING VEHICLES, BUILDINGS, PAVEMENT SURFACES, ETC.). ALL WASH WATER SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.

EMA — EQUIPMENT AND VEHICLE CLEANING AND MAINTENANCE AREAS

NOTES:

1. MATERIAL STORAGE AREAS SHOULD BE LOCATED, WHEN POSSIBLE, TO MINIMIZE EXPOSURE TO WEATHER. INSPECTIONS SHALL EVALUATE DISTURBED AREAS AND AREAS USED FOR STORING MATERIALS THAT ARE EXPOSED TO RAINFALL FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM OR DISCHARGING FROM THE SITE. IF NECESSARY, THE MATERIALS MUST BE COVERED OR ORIGINAL COVERS MUST BE REPAIRED OR SUPPLEMENTED. ALSO, PROTECTIVE BERMS MUST BE CONSTRUCTED, IF NEEDED, TO CONTAIN RUNOFF FROM MATERIAL STORAGE AREAS. GC SHALL ADHERE TO ALL STATE AND LOCAL REGULATIONS PERTAINING TO MATERIAL STORAGE AREAS.
2. CHEMICALS, PAINTS, SOLVENTS, FERTILIZERS, AND OTHER TOXIC MATERIALS MUST BE STORED IN WATERPROOF CONTAINERS. EXCEPT DURING APPLICATION, THE CONTAINERS AND THE CONTENTS MUST BE KEPT IN TRUCKS OR INSIDE OF STORAGE FACILITIES. RUNOFF CONTAINING SUCH MATERIAL MUST BE COLLECTED, REMOVED FROM THE SITE, TREATED, AND DISPOSED OF AT AN APPROVED SOLID WASTE AND CHEMICAL DISPOSAL FACILITY.

MLSA — MATERIAL LAYDOWN AND STORAGE AREA

TEMPORARY CONCRETE WASHOUT FACILITIES

DEFINITION

AFTER CONCRETE IS POURED AT A CONSTRUCTION SITE, THE CHUTES OF READY MIXED CONCRETE TRUCKS AND HOPPERS OF CONCRETE PUMP TRUCKS MUST BE WASHED OUT TO REMOVE THE REMAINING CONCRETE BEFORE IT HARDENS. EQUIPMENT SUCH AS WHEELBARROWS AND HAND TOOLS ALSO NEED TO BE WASHED DOWN. AT THE END OF EACH WORK DAY, THE DRUMS OF CONCRETE TRUCKS MUST BE WASHED OUT. THIS IS CUSTOMARILY DONE AT THE READY MIXED BATCH PLANTS, WHICH ARE USUALLY OFF-SITE FACILITIES, HOWEVER LARGE OR RURAL CONSTRUCTION PROJECTS MAY HAVE ON-SITE BATCH PLANTS. CEMENTITIOUS (HAVING THE PROPERTIES OF CEMENT) WASHWATER AND SOLIDS ALSO COME FROM USING SUCH CONSTRUCTION MATERIALS AS MORTAR, PLASTER, STUCCO, AND GROUT.

PURPOSE

- TO COLLECT AND RETAIN ALL THE CONCRETE WASHOUT WATER AND SOLIDS IN LEAK PROOF CONTAINERS, SO THAT THIS CAUSTIC MATERIAL DOES NOT REACH THE SOIL SURFACE AND THEN MIGRATE TO SURFACE WATERS OR INTO THE GROUND WATER
- TO RECYCLE 100 PERCENT OF THE COLLECTED CONCRETE WASHOUT WATER AND SOLIDS.
- ANOTHER OBJECTIVE IS TO SUPPORT THE DIVERSION OF RECYCLABLE MATERIALS FROM LANDFILLS.

IMPLEMENTATION

- A SIGN SHOULD BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES.
- STORE DRY AND WET MATERIALS UNDER COVER, AWAY FROM DRAINAGE AREAS.
- AVOID MIXING EXCESS AMOUNTS OF CONCRETE.
- PERFORM WASHOUT OF CONCRETE TRUCKS IN DESIGNATED AREAS ONLY, WHERE WASHOUT WILL NOT REACH STORMWATER.
- DO NOT WASH OUT CONCRETE TRUCKS INTO STORM DRAINS, OPEN DITCHES, STREETS, STREAMS OR ONTO THE GROUND. TRUCKS SHOULD ALWAYS BE WASHED OUT INTO DESIGNATED FACILITIES.
- DO NOT ALLOW EXCESS CONCRETE TO BE DUMPED ONSITE, EXCEPT IN DESIGNATED AREAS.
- FOR ONSITE WASHOUT:

- ON LARGER SITES, IT IS RECOMMENDED TO LOCATE WASHOUT AREAS AT LEAST 50 FEET FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES. DO NOT ALLOW RUNOFF FROM THIS AREA BY CONSTRUCTING A TEMPORARY PIT OR BERMED AREA LARGE ENOUGH FOR LIQUID AND SOLID WASTE.

- WASHOUT WASTES INTO THE TEMPORARY WASHOUT WHERE THE CONCRETE CAN SET, BE BROKEN UP, AND THEN DISPOSED PROPERLY.

- DO NOT WASH SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE INTO THE STREET OR STORM DRAIN. COLLECT AND RETURN SWEEPINGS TO AGGREGATE BASE STOCKPILE OR DISPOSE IN THE TRASH.
- TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE MAINTAINED TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM FREEBOARD OF 6" FOR ABOVE GRADE FACILITIES AND 12" FOR BELOW GRADE FACILITIES (IF ACCEPTED BY THE JURISDICTION).

WASHOUT CONTAINER REQUIREMENTS:

DIFFERENT TYPES OF WASHOUT CONTAINERS ARE AVAILABLE FOR COLLECTING, RETAINING, AND RECYCLING THE WASHWATER AND SOLIDS FROM WASHING DOWN FIXED TRUCK CHUTES AND PUMP TRUCK HOPPERS AT CONSTRUCTION SITES. PER GA GENERAL CONSTRUCTION GENERAL PERMITS GAR100001, GAR100002, AND GAR100003 **THE CONTAINERS MUST BE LEAK PROOF, WATER PROOF, AND BE COMMERCIALLY SERVICED CONTAINMENT SYSTEMS THAT ARE 100% RECYCLED**. EXAMPLES OF APPROVED CONTAINERS ARE THE "ECO-PAN" PRODUCT, AND "CONCRETE WASHOUT SYSTEMS" BY LEWIS CONCRETE INC. GC MUST VERIFY THAT THE TYPE OF CONTAINER IS ACCEPTABLE BY THE JURISDICTION AND MEETS ALL REQUIREMENTS OF THE EPA CONCRETE WASHOUT GUIDANCE DOCUMENT.

OPERATION AND MAINTENANCE:

CONCRETE WASHOUT FACILITIES SHOULD BE INSPECTED DAILY AND AFTER HEAVY RAINS TO CHECK FOR LEAKS, IDENTIFY ANY PLASTIC LININGS AND SIDEWALLS HAVE BEEN DAMAGED BY CONSTRUCTION ACTIVITIES, AND DETERMINE WHETHER THEY HAVE BEEN FILLED TO OVER 75 PERCENT CAPACITY. WHEN THE WASHOUT CONTAINER IS FILLED TO OVER 75 PERCENT OF ITS CAPACITY, THE WASHWATER SHOULD BE VACUUMED OFF OR ALLOWED TO EVAPORATE TO AVOID OVERFLOWS. THEN WHEN THE REMAINING CEMENTITIOUS SOLIDS HAVE HARDENED, THEY SHOULD BE REMOVED AND RECYCLED. DAMAGES TO THE CONTAINER SHOULD BE REPAIRED PROMPTLY. BEFORE HEAVY RAINS, THE WASHOUT CONTAINER'S LIQUID LEVEL SHOULD BE LOWERED OR THE CONTAINER SHOULD BE COVERED TO AVOID AN OVERFLOW DURING THE RAIN STORM.

REMOVAL OF TEMPORARY CONCRETE WASHOUT FACILITIES:

- WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHOULD BE REMOVED AND PROPERLY DISPOSED OR RECYCLED IN ACCORDANCE WITH FEDERAL, STATE OR LOCAL REGULATIONS. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE REMOVED FROM THE SITE OF THE WORK AND PROPERLY DISPOSED OR RECYCLED IN ACCORDANCE WITH FEDERAL, STATE OR LOCAL REGULATIONS.
- HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE BACKFILLED AND REPAIRED.

EDUCATING CONCRETE SUBCONTRCATORS:

- THE CONSTRUCTION SITE SUPERINTENDENT SHOULD MAKE READY MIXED TRUCK DRIVERS AWARE OF WASHOUT FACILITY LOCATIONS AND BE WATCHFUL FOR IMPROPER DUMPING OF CEMENTITIOUS MATERIAL.
- EDUCATE EMPLOYEES, SUBCONTRACTORS, AND SUPPLIERS ON THE CONCRETE WASTE MANAGEMENT TECHNIQUES DESCRIBED HEREIN.
- ARRANGE FOR CONTRACTOR'S SUPERINTENDENT OR REPRESENTATIVE TO OVERSEE AND ENFORCE CONCRETE WASTE MANAGEMENT PROCEDURES.
- IN ADDITION, CONCRETE WASHOUT REQUIREMENTS SHOULD BE INCLUDED IN CONTRACTS WITH CONCRETE DELIVERY COMPANIES

RETAINING WALL

Re

DEFINITION

A WALL CONSTRUCTED OF ONE OR MORE OF THE FOLLOWING: CONCRETE MASONRY, REINFORCED CONCRETE CRIBBING, TREATED TIMBERS, STEEL PILINGS, GABIONS, STONE DRYWALL, ROCK RIPRAP, ETC.

PURPOSE

TO ASSIST IN THE STABILIZATION OF CUT OR FILL SLOPES WHERE STABLE SLOPES ARE NOT ATTAINABLE WITHOUT THE USE OF THE WALL.

CONDITIONS

USE IN CONJUNCTION WITH CUT OR FILL SLOPES THAT, BECAUSE OF SPACE LIMITATIONS OR UNSTABLE MATE- RIAL, DO NOT ALLOW THE STABLE SLOPE CRITERIA LISTED ABOVE, E.G. CUTS INTO STEEP HILLSIDES ON SMALL LOTS OR CUTS INTO HILLSIDES BEHIND SHOPPING CENTERS TO PROVIDE LOADING SPACE.

DESIGN CRITERIA GENERAL

THE DESIGN OF A RETAINING WALL IS A COMPLICATED PROCESS. MANY FACTORS MUST BE TAKEN INTO AC- COUNT SUCH AS: STRESSES AND FORCES OUTSIDE AND WITHIN THE WALL; ALLOWABLE HEIGHT AND MINIMUM THICKNESS. OTHER CONSIDERATIONS ARE: FOUNDATION DESIGN WITH RESPECT TO LOADINGS, BEARING VALUES OF SOILS AND FOOTING DIMENSIONS. ADDITIONAL DESIGN FACTORS ARE SAFETY HAZARDS, SUBSURFACE AND SURFACE DRAINAGE AND APPEARANCE.

EACH SITUATION REQUIRES A SPECIFIC DESIGN THAT IS WITHIN THE CAPABILITIES OF THE DESIGN PROFESSIONAL.

CONSIDERATION SHOULD BE GIVEN TO ALL OF THE ALTER- NATIVE METHODS WITH REGARD TO CONSTRUCTION OF THE WALL

SOME METHODS ARE:

1. CONCRETE MASONRY
2. CONCRETE CRIBBING
3. GABIONS
4. STEEL PILING
5. STONE DRYWALL
6. ROCK RIPRAP, ETC.
7. TREATED TIMBERS
8. GEOTEXTILE WRAPPED-FACE WALL
9. GEOTEXTILE REINFORCED STEEP SLOPES

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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 MINERAL 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.

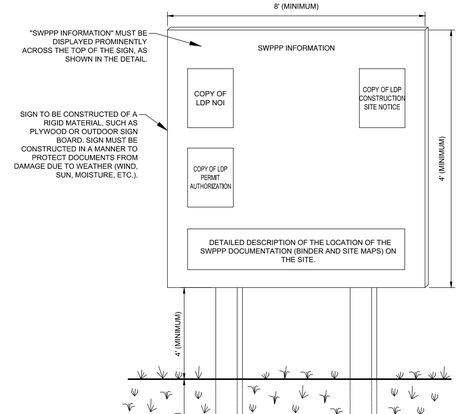
BARRIERS. SOLID BOARD FENCES, SNOWFENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION.

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. SE



NOTES:

1. THE SWPPP INFORMATION SIGN MUST BE LOCATED IN A PROMINENT, PUBLICLY ACCESSIBLE LOCATION NEAR THE MAIN ENTRANCE OF THE SITE, SUCH THAT THE DOCUMENTATION CAN BE READ WITHOUT ACCESSING THE JOBSITE, BUT NOT OBSTRUCTING VIEWS AS TO CAUSE A TRAFFIC SAFETY HAZARD.
2. ALL POSTED DOCUMENTS MUST BE MAINTAINED IN A CLEARLY READABLE CONDITION AT ALL TIMES THROUGHOUT CONSTRUCTION AND UNTIL THE NOTICE-OF-TERMINATION (NOT) IS FILED FOR THE PERMIT.
3. ALL PAGES OF NOTICES OF INTENT AND PERMIT AUTHORIZATIONS MUST BE POSTED. THE CONTRACTOR MAY UTILIZE ACCESSIBLE WATERPROOF FOLDERS TO STORE THESE DOCUMENTS IF IT WILL BE DIFFICULT TO POST ALL PAGES INDIVIDUALLY.
4. CONTRACTOR SHALL POST OTHER STORMWATER AND/OR EROSION AND SEDIMENT CONTROL RELATED PERMITS ON THE SIGN AS REQUIRED BY THE GOVERNING AGENCIES.
5. SUBSEQUENT PERMIT MODIFICATION REQUESTS OR RENEWAL APPLICATIONS AND THEIR ASSOCIATED AUTHORIZATIONS OR RESPONSES SHALL BE POSTED ON THE SWPPP SIGN.
6. SIGN SHALL BE LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY AND EASEMENTS UNLESS APPROVED BY THE GOVERNING AGENCY.
7. CONTRACTOR IS RESPONSIBLE FOR ENSURING STABILITY OF THE SWPPP INFORMATION SIGN.

SIS SWPPP INFORMATION SIGN

N.T.S.

DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

Ds2

DEFINITION

THE ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS FOR SEASONAL PROTECTION ON DISTURBED OR DENUDED AREAS.

PURPOSE

- TO REDUCE RUNOFF AND SEDIMENT DAMAGE OF
- DOWN STREAM RESOURCES
- TO PROTECT THE SOIL SURFACE FROM EROSION
- TO IMPROVE WILDLIFE HABITAT
- TO IMPROVE AESTHETICS
- TO IMPROVE TILTH, INFILTRATION AND AERATION AS WELL AS ORGANIC MATTER FOR PERMANENT PLANTINGS

REQUIREMENT FOR REGULATORY COMPLIANCE

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. TEMPORARY GRASSING, INSTEAD OF MULCH, CAN BE APPLIED TO ROUGH GRADED AREAS THAT WILL BE EXPOSED FOR LESS THAN SIX MONTHS. IF AN AREA IS EXPECTED TO BE UNDISTURBED FOR LONGER THAN SIX MONTHS, PERMANENT PERENNIAL VEGETATION SHALL BE USED. IF OPTIMUM PLANTING CONDITIONS FOR TEMPORARY GRASSING IS LACKING, MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP TO SIX MONTHS BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH, ANCHORED, AND HAVE A CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE REFER TO SPECIFICATION **ON-DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING).**

CONDITIONS

TEMPORARY VEGETATIVE MEASURES SHOULD BE COORDINATED WITH PERMANENT MEASURES TO ASSURE ECONOMICAL AND EFFECTIVE STABILIZATION. MOST TYPES OF TEMPORARY VEGETATION ARE IDEAL TO USE AS COMPANION CROPS UNTIL THE PERMANENT VEGETATION IS ESTABLISHED. NOTE: SOME SPECIES OF TEMPORARY VEGETATION ARE NOT APPROPRIATE FOR COMPANION CROP PLANTINGS BECAUSE OF THEIR POTENTIAL TO OUT-COMPETE THE DESIRED SPECIES (E.G. ANNUAL RYEGRASS). CONTACT NRCS OR THE LOCAL SWCD FOR MORE INFORMATION.

SPECIFICATIONS

GRADING AND SHAPING

EXCESSIVE WATER RUN-OFF SHALL BE REDUCED BY PROPERLY DESIGNED AND INSTALLED EROSION CONTROL PRACTICES SUCH AS CLOSED DRAINS, DITCHES, DIKES, DIVERSIONS, SEDIMENT BARRIERS AND OTHERS. NO SHAPING OR GRADING IS REQUIRED IF SLOPES CAN BE STABILIZED BY HAND-SEEDED VEGETATION OR IF HYDRAULIC SEEDING EQUIPMENT IS TO BE USED.

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SEEDBED PREPARATION

WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED. WHEN USING CONVENTIONAL OR HAND-SEEDING, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL.

WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH CUT SLOPES, THE SOIL SHALL BE PITTED, TRENCHED OR OTHERWISE SCARIFIED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.

LIME AND FERTILIZER

AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE DETERMINED BY SOIL TEST FOR PH. QUICK ACTING LIME SHOULD BE INCORPORATED TO MODIFY PH DURING THE GERMINATION PERIOD. BIO STIMULANTS SHOULD ALSO BE CONSIDERED WHEN THERE IS LESS THAN 3% ORGANIC MATTER IN THE SOIL. GRADED AREAS REQUIRE LIME APPLICATION. SOILS MUST BE TESTED TO DETERMINE REQUIRED AMOUNTS OF FERTILIZER AND AMENDMENTS. FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER, OR CHISEL, ON SLOPES TOO STEEP FOR, OR INACCESSIBLE TO EQUIPMENT. FERTILIZER SHALL BE HYDRAULICALLY APPLIED, PREFERABLY IN THE FIRST PASS WITH SEED AND SOME HYDRAULIC MULCH, THEN TOPPED WITH THE REMAINING REQUIRED APPLICATION RATE.

SEEDING

SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR. SEED SHALL BE APPLIED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTI-PACKER-SEEDER, OR HYDRAULIC SEEDER (SLURRY INCLUDING SEED AND FERTILIZER). DRILL OR CULTIPACKER SEEDERS SHOULD NORMALLY PLACE SEED ONE-QUARTER TO ONE-HALF INCH DEEP. APPROPRIATE DEPTH OF PLANTING IS TEN TIMES THE SEED DIAMETER. SOIL SHOULD BE "RAKED" LIGHTLY TO COVER SEED WITH SOIL IF SEEDED BY HAND. SEE TABLE 6-4.1

MULCHING

TEMPORARY VEGETATION CAN, IN MOST CASES, BE ESTABLISHED WITHOUT THE USE OF MULCH, PROVIDED THERE IS LITTLE TO NO EROSION POTENTIAL. HOWEVER, THE USE OF MULCH CAN OFTEN ACCELERATE AND ENHANCE GERMINATION AND VEGETATIVE ESTABLISHMENT. MULCH WITHOUT SEEDING SHOULD BE CONSIDERED FOR SHORT TERM PROTECTION. REFER TO **DS1 - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY).**

IRRIGATION

DURING TIMES OF DROUGHT, WATER SHALL BE APPLIED AT A RATE NOT CAUSING RUNOFF AND EROSION. THE SOIL SHALL BE THOROUGHLY WETTED TO A DEPTH THAT WILL INSURE GERMINATION OF THE SEED. SUBSEQUENT APPLICATIONS SHOULD BE MADE WHEN NEEDED.

PLANT, PLANTING RATES, AND PLANTING DATES FOR TEMPORARY COVER OR COMPANION CROPS 1/

Species	Broadcast: Rates 2/ Per Acre	Broadcast: PLS 2/ Per 1000 sq. ft.	Resource Area 3/	Planting Dates by Resource Area (Solid lines indicate optimum dates; dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
RYE (Secale cereale)					
alone	3 bu (168 lbs.)	3.9 lbs.	P		56,000 seed per pound. Winterhardy. Use on productive soils.
in mixtures	1.5 bu (84 lbs.)	1.9 lbs.	P		
ANNUAL RYEGRASS (Lolium multiflorum)					
alone	40 lbs.	0.9 lbs.	P		210,000 seed per pound. May winterkill in Central plains. Use mowed hay.
in mixtures	10 lbs.	0.2 lbs.	P		
CEREAL WINTER WHEAT (Triticum aestivum)					1,500,000 seed per pound. May fail to winterkill when N is high. Serious ergot risk.
alone	90 lbs.	2.1 lbs.	P		
in mixtures	30 lbs.	0.7 lbs.	P		
MILLET, BROOMCORN (Panicum miliaceum)					107,000 seed per pound. Use only for quick growth as stand will winterkill. Poor weed competition. If seeded, drill at 1/2" depth.
alone	40 lbs.	0.9 lbs.	P		
in mixtures	10 lbs.	0.2 lbs.	P		

PLANT, PLANTING RATES, AND PLANTING DATES FOR TEMPORARY COVER OR COMPANION CROPS 1/

Species	Broadcast: Rates 2/ Per Acre	Broadcast: PLS 2/ Per 1000 sq. ft.	Resource Area 3/	Planting Dates by Resource Area (Solid lines indicate optimum dates; dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
MILLET, FOXTAIL (Panicum italicum)					
alone	50 lbs.	1.1 lbs.	P		56,000 seed per pound. Quick dense cover. May reach 5 feet in height. Not resistant under N fertilization.
RAPE (Brassica napus)					
alone	4 lbs. (120 lbs.)	2.8 lbs.	P		113,000 seed per pound. Use in productive soils. Not an winterhardy. Fair as Turkey.
in mixtures	1 lbs. (30 lbs.)	0.7 lbs.	P		
RYE (Secale cereale)					
alone	3 bu. (168 lbs.)	3.9 lbs.	P		56,000 seed per pound. Quick cover. Dry soil tolerant and winterhardy.
in mixture	1.5 bu. (84 lbs.)	1.9 lbs.	P		
SUDANGRASS (Sorghum sudanense)					226,000 seed per pound. Warm season. Drought tolerant. Will winterkill in North.
alone	40 lbs.	0.9 lbs.	P		
in mixtures	10 lbs.	0.2 lbs.	P		
SORGHUM-SUDAN (Sorghum Sudanense)					55,000 seed per pound. Good on drought tolerance. Not recommended for silo types.
alone	40 lbs.	1 lb.	P		

PLANT, PLANTING RATES, AND PLANTING DATES FOR TEMPORARY COVER OR COMPANION CROPS

Species	Broadcast: Rates 2/ Per Acre	Broadcast: PLS 2/ Per 1000 sq. ft.	Resource Area g/	Planting Dates by Resource Area (Solid lines indicate optimum dates; dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
WHEAT (Triticum Aestivum)			P		14,600 seed per pound.
alone	3 bu (180 lbs.)	4.1 lbs.			
in mixtures	1.5 bu (90 lbs.)	0.7 lbs.			

1/ Twenty-two cover crops are very cold sensitive and will crown out perennials if seeded too heavily.

2/ Reduce seeding rates by 50% when drilled.

3/ PLS = Pure seed x germination for Pure Live Seed.

4/ Process info the Southern Piedmont MLRA.

TABLE 6-5.2 PERMANENT COVER CROPS

Ds3

PLANTS, PLANTING RATES, AND PLANTING DATES FOR PERMANENT COVER

Species	Broadcast: Rates 1/ Per Acre	Broadcast: PLS 2/ Per 1000 sq. ft.	Resource Area 3/	Planting Dates by Resource Area (Solid lines indicate optimum dates; dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
BAHIA, PENSACOLA (Paspalum notatum)			P		150,000 seed per pound. Low growing. Sod forming. Slow to establish. Fair to poor. Germination is low. Will spread into pastures and lawns. Not to be used in lawns. Vegetative or re-seeding dormancy.
alone or with temporary cover	40 lbs.	1 lb.			
with other perennials	30 lbs.	0.7 lb.			
BAHIA, ARGENTINE (Paspalum dilatatum)			P		Same as above.
alone or with temporary cover	40 lbs.	1 lb.			
with other perennials	30 lbs.	0.7 lb.			
BERMUDA, COMMON (Cynodon dactylon) Unhulled seed			P		1,720,000 seed per pound. Spreads by rhizomes and surface runners. Makes a dense sod. Tolerates close mowing and wear. Full sun. Good for athletic fields.
with temporary cover	10 lbs.	0.2 lb.			
with other perennials	6 lbs.	0.1 lb.			
BERMUDA, HULLED (Cynodon dactylon)	40 lbs.	0.9 lb.	P		Plant with either rhizomes or sprigs. Plant with sod Tobacco.
Coastal, Common, Midland, or Tifton					
Coastal, Common,					A cover but competes with perennials. Will not winterkill. Makes a dense sod. Tolerates close mowing and wear. Full sun. Good for athletic fields. Not recommended for lawns. Vegetative or re-seeding dormancy.
CENTIPEDE (Eremochloa ophiuroides)	(Sprigs not sold by pound)		P		Sprigs planted. Full sun or partial shade. Effective adjacent to concrete and eroded areas. Slow cover. Irrigation is needed until fully established. Do not overfertilize. Vegetative or re-seeding dormancy.

Species	Broadcast: Rates 1/ Per Acre	Broadcast: PLS 2/ Per 1000 sq. ft.	Resource Area 3/	Planting Dates by Resource Area (Solid lines indicate optimum dates; dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
CENTIPEDE (Eremochloa ophiuroides)			P		100,000 seed per pound. Dense growth. Drought tolerant and non-invasive. Attractive rose, pink, and white blossoms spring through fall. Prefers full sun but tolerates some shade. Not for use on athletic fields or lawns.
with other perennials or cool season grasses	10 lbs.	0.2 lb.	P		
CROWNVETCH (Coronilla varia)			P		227,000 seed per pound. Use where top dense cover is needed. Not for athletic use. Will winterkill in cold areas. Vegetative or re-seeding dormancy. Inoculate with proper bacteria.
with other perennials or cool season grasses	15 lbs.	0.3 lb.	P		
FESCUE, TALL (Festuca arundinacea)			P		227,000 seed per pound. Use where top dense turf is needed. Not for athletic use. Will winterkill in cold areas. Vegetative or re-seeding dormancy.
alone	50 lbs.	1.1 lbs.	P		
with other perennials	30 lbs.	0.7 lb.	P		

Species	Broadcast: Rates 1/ Per Acre	Broadcast: PLS 2/ Per 1000 sq. ft.	Resource Area 3/	Planting Dates by Resource Area (Solid lines indicate optimum dates; dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
LESPEDEZA, SERICEA (Lespedeza cuneata)			P		350,000 seed per pound. Highly adaptable. Low maintenance. Must be inoculated. Long growing season. Extremely high growth. Can become noxious. Not for athletic fields. Control with mowing, shearing, clipping, or herbicides. Not for use in fescue pastures. Do not confuse with Sericea lespedeza.
scarified	50 lbs.	1.1 lbs.	P		
unscarified	75 lbs.	1.7 lb.	P		
LESPEDEZA, SERICEA (Lespedeza cuneata) Hulled seed			P		350,000 seed per pound. Highly adaptable. Low maintenance. Must be inoculated. Long growing season. Extremely high growth. Can become noxious. Not for athletic fields. Control with mowing, shearing, clipping, or herbicides. Not for use in fescue pastures. Do not confuse with Sericea lespedeza.
scarified	40 lbs.	1 lb.	P		
unscarified	60 lbs.	1.4 lb.	P		
LESPEDEZA, SHRUB (Lespedeza bicolor) (Lespedeza thunbergii) plants	4'x7'		P		Attractive dark red and purple flowers.
LESPEDEZA, VASEY'S (Lespedeza vaseyi)			P		1,500,000 seed per pound. Use in cover. Drought tolerant. Grows in sandy to loamy soils. Vegetative or re-seeding.
alone	4 lbs.	0.1 lb.	P		
with other perennials	2 lbs.	0.05 lb.	P		

Species	Broadcast: Rates 1/ Per Acre	Broadcast: PLS 2/ Per 1000 sq. ft.	Resource Area 3/	Planting Dates by Resource Area (Solid lines indicate optimum dates; dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
MULBERRY (Morus rubra/alba)					For very wet sites. May stay dormant. Dig spring from bank. Plant from dormant trees. Not attractive.
sprigs	2'x 3' spacing		ALL		
TEOSINTE (EUCHLENA) COASTAL (Plus vari-americana var. americana)	28 lbs.	0.5 lb.	P		Grow in fertile coastal sand dunes, barrier islands, and gravel bars. Will winterkill in zone 7b. Suitable as an annual in cold zones.
TREE-CANARY GRASS (Phalaris arundinacea)					
alone	168 lbs.	1.1 lb.	P		Grows under full shade. Not suitable for athletic fields.
with other perennials	36 lbs.	0.7 lb.	P		
SUNFLOWER, NUTRIO MAXIMILIANI (Helianthus maximiliani)	18 lbs.	0.2 lb.	P		227,000 seed per pound. Mix with emerging bunchgrass or other low growing grasses or legumes.

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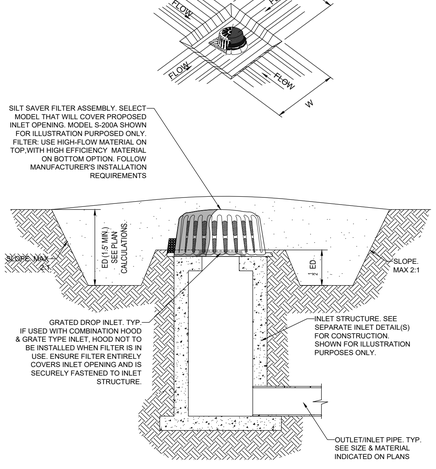
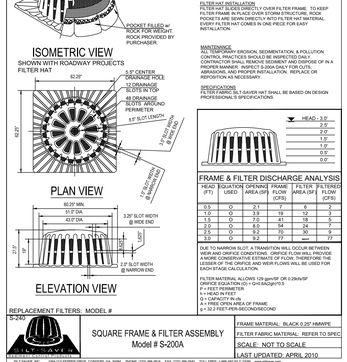
SILT SAVER FILTER ASSEMBLY. SELECT MODEL THAT WILL COVER PROPOSED INLET OPENING. MODEL S-200A SHOWN FOR ILLUSTRATION PURPOSED ONLY. FILTER: USE HIGH-FLOW MATERIAL ON TOP, WITH HIGH EFFICIENCY MATERIAL ON BOTTOM OPTION. FOLLOW MANUFACTURER'S INSTALLATION REQUIREMENTS



EXCAVATED INLET SEDIMENT TRAP

Sd2-E



REPLACEMENT FILTERS: MODEL # S-240

SILT SAVER

SILT SAVER, INC. 1996 GLENFERN DRIVE, CONYERS, GA 30094 PHONE (770) 388-7818 FAX (770) 388-7840 TOLL FREE 1-866-SILT-TRAP www.siltsaver.com

SQUARE FRAME & FILTER ASSEMBLY Model # S-200A	FRAME MATERIAL: BLACK 0.25" HRMWPE
	FILTER FABRIC MATERIAL: REFER TO SPEC
	SCALE: NOT TO SCALE
	LAST UPDATED: APRIL 2010

FILTER OPTIONS

FILTER HAT IS AVAILABLE IN THREE OPTIONS:
1) ALL HIGH-FLOW MATERIAL
2) ALL HIGH-EFFICIENCY MATERIAL
3) HIGH-FLOW MATERIAL ON TOP HALF OF HAT, HIGH-EFFICIENCY MATERIAL ON BOTTOM HALF (THIS FILTER COVER IS RECOMMENDED FOR ALL ROADWAY PROJECTS.)
IT IS THE PURCHASERS RESPONSIBILITY TO PURCHASE APPROPRIATE FILTER HAT. PURCHASER SHALL PROVIDE ROCK FOR FILTER POCKETS.

FILTER HAT INSTALLATION

FILTER HAT SLIDES DIRECTLY OVER FILTER FRAME. TO KEEP FILTER FROM BLOWING OFF DURING HIGH FLOWS, ROCK POCKETS ARE SEWN DIRECTLY INTO FILTER HAT MATERIAL. EVERY FILTER HAT COMES IN ONE PIECE FOR EASY INSTALLATION.

MAINTENANCE

ALL TEMPORARY EROSION, SEDIMENTATION, & POLLUTION CONTROL PRACTICES SHOULD BE INSPECTED DAILY. CONTRACTOR SHALL REMOVE SEDIMENT AND DISPOSE OF IN A MANNER THAT WILL NOT CAUSE FURTHER SILTATION.

SPECIFICATIONS

FILTER FABRIC SILT-SAVER HAT SHALL BE BASED ON DESIGN PROFESSIONAL'S SPECIFICATIONS.

FRAME & FILTER DISCHARGE ANALYSIS

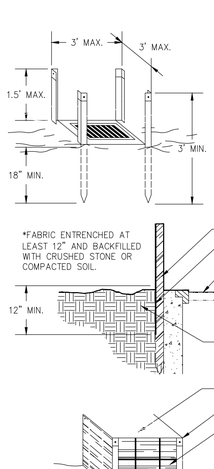
HEAD (FT)	EQUATION USED	OPENING AREA (SF)	FRAME FLOW (CFS)	FILTER AREA (SF)	FILTERED FLOW (CFS)
0.5	O	2.1	7	6	2
1.0	O	3.9	19	12	3
1.5	O	7.0	41	18	5
2.0	O	8.9	54	24	7
2.5	O	9.2	70	30	9
3.0	O	9.2	77	---	77

DUE TO NARROW SLOT, A TRANSITION WILL OCCUR BETWEEN WEIR AND ORIFICE CONDITIONS. ORIFICE FLOW WILL PROVIDE A MORE CONSERVATIVE ESTIMATE OF FLOW, THEREFORE THE ORIFICE EQUATION WILL BE USED WHEN FLOWS WILL BE USED FOR EACH STAGE CALCULATION.

FILTER MATERIAL ALLOWS 129 gpm/SF OR 0.29cfs/SF
ORIFICE EQUATION (Q = Cx0.6xA2(g)x(h)^0.5
P = FEET PERIMETER
h = HEAD IN FEET
Q = CAPACITY IN CFS
A = ORIFICE AREA OF FRAME
g = 32.2 FEET PER SECOND/SECOND

FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION

STEEL FRAME AND SILT FENCE INSTALLATION



NOTES:

1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (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.

SLOPE STABILIZATION

Ss

DEFINITION

A PROTECTIVE COVERING USED TO PREVENT EROSION AND ESTABLISH TEMPORARY OR PERMANENT VEGETATION ON STEEP SLOPES. SHORE LINES, OR CHANNELS.

PURPOSE

TO PROVIDE A COVER LAYER THAT STABILIZES THE SOIL AND ACTS AS A RAIN DROP IMPACT DISSIPATER WHILE PROVIDING A MICROCLIMATE THAT PROTECTS YOUNG VEGETATION AND PROMOTES ITS ESTABLISHMENT. IF USING SLOPE STABILIZATION TO REINFORCE CHANNELS, PLEASE
REFER TO SPECIFICATION, **CH- CHANNEL STABILIZATION**.

CONDITIONS

SLOPE STABILIZATION CAN BE APPLIED TO FLAT AREAS OR SLOPES WHERE THE EROSION HAZARD IS HIGH AND SLOPE PROTECTION IS NEEDED DURING THE ESTABLISHMENT OF VEGETATION.

PLANNING CONSIDERATIONS

CARE MUST BE TAKEN TO CHOOSE THE TYPE OF SLOPE STABILIZATION PRODUCT THAT IS MOST APPROPRIATE FOR THE SPECIFIC NEEDS OF A PROJECT. TWO GENERAL TYPES OF SLOPE STABILIZATION PRODUCTS ARE DISCUSSED WITHIN THIS SPECIFICATION.

ROLLED EROSION CONTROL PRODUCTS (RECP)

A NATURAL FIBER BLANKET WITH SINGLE OR DOUBLE PHOTODEGRADABLE OR BIODEGRADABLE NETS.

HYDRAULIC EROSION CONTROL PRODUCTS (HECP)

HECP SHALL UTILIZE STRAW, COTTON, WOOD OR OTHER NATURAL BASED FIBERS HELD TOGETHER BY A SOIL BINDING AGENT THAT WORKS TO STABILIZE SOIL PARTICLES. PAPER MULCH SHOULD NOT BE USED FOR EROSION CONTROL.

CRITERIA

ROLLED EROSION CONTROL PRODUCTS (RECPS) AND HYDRAULIC EROSION CONTROL PRODUCTS (HECPS):
•INSTALLATION AND STAPLING OF RECPS AND APPLICATION RATES FOR THE HECPS SHALL CONFORM TO MANUFACTURER'S GUIDELINES FOR APPLICATION.
•SHORT-TERM RECPS AS A MINIMUM SHALL BE USED TO STABILIZE CONCENTRATED FLOW AREAS WITH A VELOCITY LESS THAN 5FT/SEC ON SLOPES 3:1 OR GREATER WITH A HEIGHT OF 10 FEET OR GREATER.

MATERIALS – HECP

HYDRAULIC EROSION CONTROL PRODUCTS SHALL BE PREPACKAGED FROM THE MANUFACTURER. FIELD MIXING OF PERFORMANCE ENHANCING ADDITIVES WILL NOT BE ALLOWED. FIBEROUS COMPONENTS SHOULD BE ALL NATURAL OR BIODEGRADABLE. PRODUCTS SHALL BE DETERMINED TO BE NON-TOXIC IN ACCORDANCE WITH EPA-821-R-02-012.

MATERIALS – RECP

BLANKETS SHALL BE NONTOXIC TO VEGETATION, SEED, OR WILDLIFE. PRODUCTS SHALL BE DETERMINED TO BE NON-TOXIC IN ACCORDANCE WITH EPA-821-R-02-012. AT MINIMUM, THE PLASTIC OR BIODEGRADABLE NETTING SHALL BE STITCHED TO THE FIBROUS MATRIX TO MAXIMIZE STRENGTH AND PROVIDE FOR EASE OF HANDLING.

RECPS ARE CATEGORIZED AS FOLLOWS:

a. SHORT-TERM
(FUNCTIONAL LONGEVITY 12 MO.)
i. PHOTODEGRADABLE
STRAW BLANKETS WITH A TOP AND BOTTOM SIDE PHOTO DEGRADABLE NET. THE MAXIMUM SIZE OF THE MESH SHOULD BE OPENINGS OF ½" X ½". THE BLANKET SHOULD BE SEWN TOGETHER ON 1.5" CENTERS WITH DEGRADABLE THREAD. MINIMUM THICKNESS SHOULD BE 0.35" AND MINIMUM DENSITY SHOULD BE 0.5 LBS PER SQUARE YARD.

ii. BIODEGRADABLE
STRAW BLANKET WITH A TOP AND BOTTOM SIDE BIODEGRADABLE JUTE NET. THE TOP SIDE NET SHOULD CONSIST OF MACHINE DIRECTION STRANDS THAT ARE TWISTED TOGETHER AND THEN INTERWOVEN WITH CROSS DIRECTION STRANDS (LENO WEAVE). THE BOTTOM NET MAY BE LENO WEAVE OR OTHERWISE TO MEET REQUIREMENTS. THE APPROXIMATE SIZE OF THE MESH SHOULD BE OPENINGS OF 0.5" X 1.0". THE BLANKET SHOULD BE SEWN TOGETHER ON 1.5" CENTERS WITH DEGRADABLE THREAD. MINIMUM THICKNESS SHOULD BE 0.25" AND MINIMUM DENSITY SHOULD BE 0.65 LBS PER SQUARE YARD.

b. EXTENDED-TERM
(FUNCTIONAL LONGEVITY 24 MO.)
I.PHOTODEGRADABLE
BLANKETS THAT CONSIST OF 70% STRAW AND 30% COCONUT WITH A TOP AND BOTTOM SIDE PHOTODEGRADABLE THE TOP NET SHOULD HAVE ULTRAVIOLET ADDITIVES TO DELAY BREAKDOWN. THE MAXIMUM SIZE OF THE MESH SHOULD BE OPENINGS OF 0.65" X 0.65". THE BLANKET SHOULD BE SEWN TOGETHER ON 1.5" CENTERS WITH DEGRADABLE THREAD. MINIMUM THICKNESS SHOULD BE 0.35" AND MINIMUM DENSITY SHOULD BE 0.6 LBS PER SQUARE YARD.

II.BIODEGRADABLE
BLANKETS THAT CONSIST OF 70% STRAW AND 30% COCONUT WITH A TOP AND BOTTOM SIDE BIODEGRADABLE JUTE NET. THE TOP SIDE NET SHOULD CONSIST OF MACHINE DIRECTION STRANDS THAT ARE TWISTED TOGETHER AND THEN INTERWOVEN WITH CROSS DIRECTION STRANDS (LENO WEAVE). THE BOTTOM NET MAY BE LENO WEAVE OR OTHERWISE TO MEET REQUIREMENTS. THE APPROXIMATE SIZE OF THE MESH SHOULD BE OPENINGS OF 0.5" X 1.0". THE BLANKET SHOULD BE SEWN TOGETHER ON 1.5" CENTERS WITH DEGRADABLE THREAD. MINIMUM THICKNESS SHOULD BE 0.25" AND MINIMUM DENSITY SHOULD BE 0.65 LBS PER SQUARE YARD.

c. LONG-TERM
(FUNCTIONAL LONGEVITY 36 MO.)
i. PHOTODEGRADABLE
BLANKETS THAT CONSIST OF 100% COCONUT WITH A TOP AND BOTTOM SIDE PHOTODEGRADABLE NET. EACH NET SHOULD HAVE ULTRAVIOLET ADDITIVES TO DELAY BREAKDOWN. THE MAXIMUM SIZE OF THE MESH SHOULD BE OPENINGS OF 0.65" X 0.65". THE BLANKET SHOULD BE SEWN TOGETHER ON 1.5" CENTERS WITH DEGRADABLE THREAD. MINIMUM THICKNESS SHOULD BE 0.3" AND MINIMUM DENSITY SHOULD BE 0.5 LBS PER SQUARE YARD.

iii. BIODEGRADABLE
BLANKETS THAT CONSIST OF 100% COCONUT WITH A TOP AND BOTTOM SIDE BIODEGRADABLE JUTE NET. THE TOP SIDE NET SHOULD CONSIST OF MACHINE DIRECTION STRANDS THAT ARE TWISTED TOGETHER AND THEN INTERWOVEN WITH CROSS DIRECTION STRANDS (LENO WEAVE). THE BOTTOM NET MAY BE LENO WEAVE OR OTHERWISE TO MEET REQUIREMENTS. THE APPROXIMATE SIZE OF THE MESH SHOULD BE OPENINGS OF 0.5" X 1.0". THE BLANKET SHOULD BE SEWN TOGETHER ON 1.5" CENTERS WITH DEGRADABLE THREAD. MINIMUM THICKNESS SHOULD BE 0.25" AND MINIMUM DENSITY SHOULD BE 0.5 LBS PER SQUARE YARD.

NOTES
IT IS THE INTENTION OF THIS SECTION TO ALLOW INTERCHANGEABLE USE OF RECPS AND HECPS FOR EROSION PROTECTION ON SLOPES. THE PROJECT ENGINEER SHOULD SELECT THE TYPE OF EROSION CONTROL PRODUCT THAT BEST FITS THE NEED OF THE PARTICULAR SITE.

SITE PREPARATION
AFTER THE SITE HAS BEEN SHAPED AND GRADED TO THE APPROVED DESIGN, PREPARE A FRIABLE SEEDBED RELATIVELY FREE FROM CLODS AND ROCKS MORE THAN ONE INCH IN DIAMETER, AND ANY FOREIGN MATERIAL THAT WILL PREVENT CONTACT OF THE SOIL STABILIZATION
MAT WITH THE SOIL SURFACE. SUR

GENERAL CONSERVATION NOTES AND SPECIFICATIONS

(SOURCE: GEORGIA SOIL AND WATER CONSERVATION COMMISSION

I. GENERAL INFORMATION

A. THIS EROSION AND SEDIMENT CONTROL PLAN SHALL BE AVAILABLE AT THE SITE.
B. NO SEDIMENT OR SEDIMENT LADEN WATER MUST BE ALLOWED TO LEAVE THE SITE WITHOUT FIRST BEING PROPERLY FILTERED.
C. ANY SEDIMENT THAT IS TRACKED ONTO THE ROAD MUST BE CLEANED OFF BEFORE THE END OF THE DAY.
D. DISTURBED AREAS ON WHICH EARTHMOVING ACTIVITIES HAVE CEASED AND WHICH WILL REMAIN EXPOSED SHALL BE STABILIZED IMMEDIATELY. EITHER TEMPORARILY OR PERMANENTLY, INCLUDING THE RESTORATION OF DRIVEWAYS, STOCKPILES, OFF-SITE UNDERGROUND UTILITY LINES AND GRADED PERIMETER AREAS. DURING NON-GERMINATION PERIODS, MULCH MUST BE APPLIED AT RECOMMENDED RATES. CRUSHED STONE ON PAVEMENT SUBGRADE IS CONSIDERED ADEQUATE PROTECTION.
E. AREAS THAT FAIL TO GERMINATE MUST BE RE-SEEDED OR MULCHED.
F. WHERE DISTURBED AREAS ARE DIFFICULT TO STABILIZE, NETTING SHOULD BE USED TO HOLD SEED AND MULCH IN PLACE; THIS IS ESPECIALLY IMPORTANT AROUND WATERCOURSES, IN SWALES AND AREAS OF CONCENTRATED FLOWS, STEEP SLOPES.
G. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENTATION MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROL AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, RE-GRADING, RE-SEEDING, RE-MULCHING, AND RE-NETTING, MUST BE PERFORMED IMMEDIATELY.
H. IF AT ANY TIME PRIOR TO SITE STABILIZATION ANY E&SP PROBLEMS OCCUR WHICH REQUIRE ADDITIONAL CONTROLS, IMMEDIATE ACTION MUST BE TAKEN TO CORRECT THE PROBLEMS.
I. THE CONTRACTOR MUST DEVELOP AND COORDINATE WITH OWNER AND HAVE APPROVED BY THE GSWCC, A SEPARATE EROSION AND SEDIMENT POLLUTION CONTROL PLAN FOR EACH SPOIL, BORROW OR OTHER WORK AREA NOT DETAILED ON THE PERMITTED PLANS, WHETHER LOCATED WITHIN OR OUTSIDE OF THE LIMITS OF CONSTRUCTION.
J. CONTRACTOR SHALL NOTIFY THE GSWCC OF DISPOSAL METHOD AND LOCATION OF MATERIALS (IF ANY) TO BE REMOVED FROM SITE.
K. STANDARD FOR DISPOSAL OF MATERIALS:
L. ALL MATERIALS TO BE RECYCLED OR DISPOSED OF MUST DO SO IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL REGULATIONS. STOCKPILES TO BE HAULED OFF SITE MUST HAVE AN APPROVED EROSION AND SEDIMENT CONTROL PLAN AT THE DESTINATION LOCATION

II. STANDARD FOR LAND GRADING

A. DEFINITION: RESHAPING THE GROUND SURFACE BY GRADING TO PLAN GRADES, WHICH ARE DETERMINED BY TOPOGRAPHIC SURVEY AND LAYOUT.
1. PROVISIONS SHALL BE MADE TO SAFELY CONDUCT SURFACE WATER TO STORM DRAINS OR SUITABLE WATER COURSES AND TO PREVENT SURFACE RUNOFF FROM DAMAGING CUT FACES AND FULL SLOPES.
2. ADJOINING PROPERTY SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS.

B. INSTALLATION REQUIREMENTS
1. TIMBER, LOGS, BRUSH, RUBBISH, ROCKS, STUMPS AND VEGETABLE MATTER WHICH WILL INTERFERE WITH THE GRADING OPERATION OR AFFECT THE PLANNED STABILITY OR FILL AREAS SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH STANDARD FOR DISPOSAL OF MATERIALS.
2. FILL MATERIAL IS TO BE FREE OF BRUSH, RUBBISH, TIMBER, LOGS, VEGETATIVE MATTER AND STUMPS IN AMOUNTS THAT WILL BE DETRIMENTAL TO CONSTRUCTING STABLE FILLS.
3. ALL FILLS SHALL BE COMPACTED SUFFICIENTLY FOR THEIR INTENDED PURPOSE AND AS REQUIRED TO REDUCE SLIPPING, EROSION OR EXCESS SATURATION.
4. ALL DISTURBED AREAS SHALL BE LEFT WITH A NEAT AND FINISHED APPEARANCE AND SHALL BE PROTECTED FROM EROSION.
5. (SEE I. D.)

III. STANDARD FOR UTILITY TRENCH EXCAVATION

A. LIMIT ADVANCE CLEARING AND GRUBBING OPERATIONS TO A DISTANCE EQUAL TO TWO TIMES THE LENGTH OF PIPE INSTALLATION THAT CAN BE COMPLETED IN ONE DAY.
B. LIMIT DAILY TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT, PLUG INSTALLATION AND BACKFILLING THAT CAN BE COMPLETED THE SAME DAY. DAILY BACKFILLING OF THE TRENCH MAY BE DELAYED FOR A MAX. OF SIX DAYS FOR CERTAIN CASES REQUIRING TESTING OF THE INSTALLED PIPE.
C. WATER WHICH ACCUMULATES IN THE OPEN TRENCH WILL BE COMPLETELY REMOVED BY PUMPING TO A FACILITY FOR REMOVAL OF SEDIMENT, SUCH AS SEDIMENT TRAP, SEE DETAILS BEFORE PIPE PLACEMENT AND/OR BACKFILLING BEGINS.
D. ON THE DAY FOLLOWING PIPE PLACEMENT AND TRENCH BACKFILLING, THE DISTURBED AREA WILL BE GRADED TO FINAL CONTOURS AND APPROPRIATE TEMPORARY EROSION AND SEDIMENT POLLUTION CONTROL MEASURES / FACILITIES WILL BE INSTALLED. SEEDING AND MULCHING OF ALL DISTURBED AREAS WILL BE DONE IMMEDIATELY.
E. WORK CREWS AND EQUIPMENT FOR TRENCHING, PLACEMENT OF PIPE, PLUG CONSTRUCTION AND BACKFILLING WILL BE SELF CONTAINED AND SEPARATE FROM CLEARING AND GRUBBING AND SITE RESTORATION AND STABILIZATION OPERATIONS.
F. ALL SOIL EXCAVATED FROM THE TRENCH WILL BE PLACED ON THE UPHILL SIDE OF THE TRENCH.

IV. STANDARD FOR TEMPORARY STABILIZATION

A. STANDARD FOR TEMPORARY STABILIZATION WITH MULCH
1. MULCHING IS MOST APPLICABLE TO THOSE AREAS SUBJECT TO PERIODIC DISTURBANCE AND REWORKING. IN ADDITION, STABILIZATION WITH MULCH SHALL BE USED DURING NON-GERMINATION PERIODS.
2. PERFORM ALL CULTURAL OPERATIONS AT RIGHT ANGLES TO THE SLOPE.
3. GRADE AS NEED AND FEASIBLE. SEE STANDARD FOR LAND GRADING.
4. PROTECTIVE MATERIALS TO BE USED:
a. UNROTTED SMALL-GRAIN STRAW OR HAY AT 3.0 TONS PER ACRE SPREAD UNIFORMLY AT 135 POUNDS PER 1000 SQUARE FEET AND ANCHORED WITH LIQUID MULCH BINDER OR; WOOD-FIBER OR PAPER-FIBER MULCH AT A RATE OF 1500 POUNDS PER ACRE MAY BE APPLIED BY A
b. HYDROSEEDER OR HYDROMULCHER. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL. LIQUID MULCH BINDERS: APPLY IMMEDIATELY AFTER PLACEMENT OF HAY OR STRAW MULCH TO MINIMIZE LOSS BY WIND OR WATER. IF EMULSIFIED ASPHALT - (SS-1, CSS-1, CMS-2, MS-2, RS-1, RS-2, CRS-1 AND CRS-2), APPLY 0.04 GAL./SQ. YD. OR 194 GAL./ACRE ON FLAT SLOPES LESS THAN 8' HIGH. ON SLOPES 8' OR MORE HIGH USE 0.075 GAL./SQ. YD. OR 363 GAL./ACRE.

B. STANDARD FOR TEMPORARY STABILIZATION WITH SEED
1. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE REDISTURBED WITHIN ONE YEAR MUST BE SEEDED AND MULCHED IMMEDIATELY WITH A TEMPORARY COVER.
2. SEEDBED PREPARATION
a. PERFORM ALL CULTURAL OPERATIONS AT RIGHT ANGLES TO SLOPE.
b. APPLY GROUND LIMESTONE AT A RATE OF 1 TON/AC.
c. APPLY 10-10-10 FERTILIZER A RATE OF 150 LB/AC.
d. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF FOUR (4) INCHES.

C. SEEDING
LATE WINTER/EARLY SPRING (PIEDMONT JAN.1 - MAY 1; COASTAL PLAIN DEC. 1 - APRIL 15)
1. SEED MIXTURE TEMPORARY:
- RYE(GRAIN) SHALL BE APPLIED AT A RATE OF 120 LB/ACRE
- ANNUAL LESPEDEZA (KOBE) SHALL BE APPLIED AT A RATE OF 50 LB/ACRE
2. APPLY SEED UNIFORMLY. NORMAL SEEDING DEPTH IS FROM 1/4" TO 1/2". HYDROSEEDINGS (INCLUDING FERTILIZER AND SEED IN A SLURRY FORM), MAY BE LEFT ON THE SOIL SURFACE. SOIL CONSERVATION DISTRICT CAN REQUIRE SPECIFIC TECHNIQUES FOR HYDROSEEDING AND/OR HYDROMULCHING IN AREAS WITH DROUGHTY CONDITIONS. FOR MULCHING REQUIREMENTS, SEE STANDARD FOR STABILIZATION WITH MULCH.
3. FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

SUMMER (PIEDMONT MAY 1 - AUG. 15; COASTAL PLAIN APRIL 15 - AUG. 15)
1. SEED MIXTURE TEMPORARY: GERMAN MILLET SHALL BE APPLIED AT A RATE OF 40 LB/ACRE
2. APPLY SEED UNIFORMLY. NORMAL SEEDING DEPTH IS FROM 1/4" TO 1/2". HYDROSEEDINGS (INCLUDING FERTILIZER AND SEED IN A SLURRY FORM), MAY BE LEFT ON THE SOIL SURFACE. SOIL CONSERVATION DISTRICT CAN REQUIRE SPECIFIC TECHNIQUES FOR HYDROSEEDING AND/OR HYDROMULCHING IN AREAS WITH DROUGHTY CONDITIONS. FOR MULCHING REQUIREMENTS, SEE STANDARD FOR STABILIZATION WITH MULCH.
3. FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER

FALL (PIEDMONT MAY 1 - AUG. 15; COASTAL PLAIN APRIL 15 - AUG. 15)
1. SEED MIXTURE TEMPORARY: RYE (GRAIN) SHALL BE APPLIED AT A RATE OF 120 LB/ACRE
2. APPLY SEED UNIFORMLY. NORMAL SEEDING DEPTH IS FROM 1/4" TO 1/2". HYDROSEEDINGS (INCLUDING FERTILIZER AND SEED IN A SLURRY FORM), MAY BE LEFT ON THE SOIL SURFACE. SOIL CONSERVATION DISTRICT CAN REQUIRE SPECIFIC TECHNIQUES FOR HYDROSEEDING AND/OR HYDROMULCHING IN AREAS WITH DROUGHTY CONDITIONS. FOR MULCHING REQUIREMENTS, SEE STANDARD FOR STABILIZATION WITH MULCH.
3. FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 1,000 LB/ACRE 10-10-10 FERTILIZER

V. STANDARD FOR PERMANENT STABILIZATION

A. SPECIFICATION FOR SEEDING & SOIL TREATMENT FOR PERMANENT VEGETATIVE COVER
1. SITE PREPARATION
a. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND ANCHORING, AND MAINTENANCE.
b. SUBSOIL SHOULD BE TESTED FOR LIME REQUIREMENTS AND LIMESTONE, IF NEEDED, SHOULD BE APPLIED TO BRING SOIL PH TO 6.5 AND INCORPORATED INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES.
c. IMMEDIATELY PRIOR TO TOPSOIL DISTRIBUTION, THE SURFACE SHOULD BE SCARIFIED TO PROVIDE A GOOD BOND WITH THE TOPSOIL.
2. APPLYING TOPSOIL
a. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING SOIL STRUCTURE.
b. ALL DISTURBED TOPSOIL ON-SITE IS TO BE REDISTRIBUTED ON-SITE IN AREAS NOT COVERED BY IMPERVIOUS SURFACES. NO REMOVAL OF TOPSOIL IS ALLOWED UNLESS APPROVED BY THE TOWNSHIP. A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS RECOMMENDED. SOILS WITH A PH OF 4.0 OR LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM DEPTH OF 12 INCHES OF SOIL HAVING A PH OF 5.0 OR MORE.
3. SEEDBED PREPARATION
a. PERFORM ALL CULTURAL OPERATIONS AT RIGHT ANGLES TO SLOPE.
b. APPLY 10-20-10 OR EQUIVALENT RATED FERTILIZER AT A RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1000 SQUARE FEET.
c. APPLY 300 POUNDS 38-0-0 PER ACRE OR EQUIVALENT OF SLOW RELEASE NITROGEN.
d. APPLY PULVERIZED DOLOMITIC LIMESTONE AT A RATE OF 1/3 TONS PER ACRES OR 15 POUNDS PER 1000 SQUARE FEET.
e. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM FINE SEEDBED IS PREPARED.
f. REMOVE FROM THE SURFACE ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS OR OTHER UNSUITABLE MATERIAL.
g. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RE-TILLED AND FIRMED AS ABOVE.
4. SEEDING
a. SEED MIXTURE PERMANENT: SAHARA BERMUDA GRASS AT A RATE OF 275 LB/ACRE IN ADDITION TO TEMPORARY SEEDING (SEE ABOVE), SEEDING DATES 3/1 TO 5/15 8/15 TO 10/1.
b. SEED MIX SHALL HAVE A PURE LIVE SEED (PLS) RATING OF 60% OR GREATER
c. APPLY SEED UNIFORMLY. NORMAL SEEDING DEPTH IS FROM 1/4" TO 1/2". HYDROSEEDINGS (INCLUDING FERTILIZER AND SEED IN A SCURRY FORM), WHICH ARE MULCHED, MAY BE LEFT ON THE SOIL SURFACE. SOIL CONSERVATION DISTRICT CAN REQUIRE SPECIFIC TECHNIQUES FOR HYDROSEEDING AND/OR HYDROMULCHING IN AREAS WITH DROUGHTY CONDITIONS. FOR MULCHING REQUIREMENTS SEE STANDARD FOR STABILIZATION WITH MULCH: PROTECTIVE MATERIALS TO BE USED.
d. UNROTTED SMALL-GRAIN STRAW OR HAY AT 3.0 TONS PER ACRE SPREAD UNIFORMLY AT 135 POUNDS PER 1000 SQUARE FEET AND ANCHORED WITH LIQUID MULCH BINDER OR; WOOD-FIBER OR PAPER-FIBER MULCH AT A RATE OF 1500 POUNDS PER ACRE MAY BE APPLIED BY A
5. IRRIGATION - (WHERE FEASIBLE) IF SOIL MOISTURE IS DEFICIENT AND MULCH IS NOT USED, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER, A MINIMUM OF 1/4" TWICE A DAY UNTIL VEGETATION IS WELL ESTABLISHED, ESPECIALLY WHEN SEEDING IS PERFORMED IN ABNORMALLY DRY OR HOT WEATHER OR ON DROUGHTY SITES.

B. STANDARD FOR PERMANENT STABILIZATION WITH SOD
1. METHODS AND MATERIALS
a. CULTIVATED SOD IS PREFERRED OVER NATIVE OR PASTURE SOD. SPECIFY "CERTIFIED SOD," OR OTHER HIGH QUALITY CULTIVATED SOD.
b. SOD SHOULD BE FREE OF WEEDS AND UNDESIRABLE COARSE WEEDY GRASSES.
c. SOD SHOULD BE OF UNIFORM THICKNESS, APPROXIMATELY 5/8 INCH, PLUS OR MINUS 1/4 INCH, AT TIME OF CUTTING. (EXCLUDES TOP GROWTH).
d. SOD SHOULD BE VIGOROUS AND DENSE AND BE ABLE TO RETAIN ITS OWN SHAPE AND WEIGHT WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP FROM THE UPPER 10% OF THE STRIP. BROKEN PADS OR TORN AND UNEVEN ENDS WILL NOT BE ACCEPTABLE.
e. FOR DROUGHTY SITES A SOD OF KENTUCKY 31 TALL FESCUE AND BLUEGRASS IS PREFERRED OVER A STRAIGHT BLUEGRASS SOD.
f. ONLY MOIST, FRESH UNHEATED SOD SHOULD BE USED. SOD SHOULD BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 36 HOURS.
2. SITE PREPARATION SEE SPECIFICATION FOR SEEDING & SOIL TREATMENT FOR PERMANENT VEGETATIVE COVER.
3. APPLYING TOPSOIL SEE SPECIFICATION FOR SEEDING & SOIL TREATMENT FOR PERMANENT VEGETATIVE COVER.
4. SEEDBED PREPARATION. SEE SPECIFICATION FOR SEEDING & SOIL TREATMENT FOR PERMANENT VEGETATIVE COVER.
5. SOD PLACEMENT
a. SOD STRIPS SHOULD BE LAID ON THE CONTOUR, NEVER UP AND DOWN THE SLOPE, STARTING AT THE BOTTOM OF THE SLOPE AND WORKING UP. ON STEEP SLOPES, THE USE OF LADDERS WILL FACILITATE THE WORK AND PREVENT DAMAGE TO THE SOD. DURING PERIODS OF HIGH TEMPERATURE, LIGHTLY IRRIGATE THE SOIL IMMEDIATELY PRIOR TO LAYING THE SOD.
b. PLACE SOD STRIPS WITH SNUG EVEN JOINTS THAT ARE STAGGERED. OPEN SPACES INVITE EROSION.
c. ROLL OR TAMP SOD IMMEDIATELY FOLLOWING PLACEMENT TO INSURE SOLID CONTACT OF ROOT MAT AND SOIL SURFACE. DO NOT OVERLAP SOD. ALL JOINTS SHOULD BE BUTTED TIGHTLY IN ORDER TO PREVENT VOIDS, WHICH WOULD CAUSE DRYING OF THE ROOTS.
d. ON SLOPES GREATER THAN 3 TO 1, SECURE SOD TO SURFACE SOIL WITH WOOD PEGS, WIRE STAPLES, OR SPLIT SHINGLES (8 TO 10 INCHES LONG BY 3/4 INCH WIDE).
e. SURFACE WATER CANNOT ALWAYS BE DIVERTED FROM FLOWING OVER THE FACE OF THE SLOPE, BUT A CAPPING STRIP OF HEAVY JUTE OR PLASTIC NETTING, PROPERLY SECURED, ALONG THE CROWN OF THE SLOPE AND EDGES WILL PROVIDE EXTRA PROTECTION AGAINST LIFTING AND UNDERCUTTING OF SOD. THE SAME TECHNIQUE CAN BE USED TO ANCHOR SOD IN WATER-CARRYING CHANNELS AND OTHER CRITICAL AREAS. WIRE STAPLES MUST BE USED TO ANCHOR NETTING IN CHANNEL WORK.
f. IMMEDIATELY FOLLOWING INSTALLATION, SOD SHOULD BE WATERED UNTIL MOISTURE PENETRATES THE SOIL LAYER BENEATH SOD TO A DEPTH OF 4 INCHES. MAINTAIN OPTIMUM MOISTURE FOR AT LEAST TWO WEEKS.
6. TOP DRESSING - IF SLOW RELEASE NITROGEN (300 POUNDS 38-0-0 PER ACRE OR EQUIVALENT) IS USED IN ADDITION SUGGESTED FERTILIZER, THEN A FOLLOW-UP OF TOP DRESSING IS NOT MANDATORY.
a. SPRING INSTALLATION OF SOD WILL REQUIRE AN APPLICATION OF FERTILIZER SUCH AS 10-20-10 EQUIVALENT AT 400 POUNDS PER ACRE OR 10 POUNDS PER 1,000 SQUARE FEET BETWEEN SEPTEMBER 1 AND OCTOBER 15.
b. FALL INSTALLATION OF SOD WILL REQUIRE THE ABOVE BETWEEN MARCH 15 AND MAY 1.

HAZARDOUS MATERIAL MANAGEMENT & SPILL REPORTING

ANY HAZARDOUS OR POTENTIALLY HAZARDOUS MATERIAL THAT IS BROUGHT ONTO THE CONSTRUCTION SITE SHALL BE HANDLED PROPERLY TO REDUCE THE POTENTIAL FOR STORMWATER POLLUTION. ALL MATERIALS USED ON THIS CONSTRUCTION SITE SHALL BE PROPERLY STORED, HANDLED, DISPENSED AND DISPOSED OF FOLLOWING ALL APPLICABLE LABEL DIRECTIONS. FLAMMABLE AND COMBUSTIBLE LIQUIDS SHALL BE STORED AND HANDLED ACCORDING TO APPLICABLE REGULATIONS, AND, AT A MINIMUM, ACCORDING TO 29 CFR 1926.152. ONLY APPROVED CONTAINERS AND PORTABLE TANKS SHALL BE USED FOR STORAGE AND HANDLING OF FLAMMABLE AND COMBUSTIBLE LIQUIDS.

MATERIAL SAFETY DATA SHEETS (MSDS) INFORMATION SHALL BE KEPT ON SITE FOR ANY AND ALL APPLICABLE MATERIALS. HOWEVER, MSDS MAY ALSO BE ACCESSED VIA TELEPHONE OR OTHER ELECTRONIC MEANS OR APPARATUS.

IN THE EVENT OF AN ACCIDENTAL SPILL, IMMEDIATE ACTION SHALL BE TAKEN BY THE GC TO CONTAIN AND REMOVE THE SPILLED MATERIAL. THE SPILL SHALL BE REPORTED TO THE APPROPRIATE AGENCIES IN THE REQUIRED TIME FRAMES. AS REQUIRED UNDER THE PROVISIONS OF THE CLEAN WATER ACT, ANY SPILL OR DISCHARGE ENTERING WATERS OF THE UNITED STATES SHALL BE PROPERLY REPORTED.

ALL HAZARDOUS MATERIALS, INCLUDING CONTAMINATED SOIL AND LIQUID CONCRETE WASTE, SHALL BE DISPOSED OF BY THE CONTRACTOR IN THE MANNER SPECIFIED BY FEDERAL, STATE AND LOCAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS.

THE GC SHALL PREPARE A WRITTEN RECORD OF ANY SPILL AND ASSOCIATED CLEAN-UP ACTIVITIES OF PETROLEUM PRODUCTS OR HAZARDOUS MATERIALS IN EXCESS OF 1 GALLON OR REPORTABLE QUANTITIES, WHICHEVER IS LESS, ON THE DAY OF THE SPILL. THE GC SHALL PROVIDE NOTICE TO OWNER IMMEDIATELY UPON IDENTIFICATION OF ANY SPILL.

ANY SPILLS OF PETROLEUM PRODUCTS OR HAZARDOUS MATERIALS IN EXCESS OF REPORTABLE QUANTITIES AS DEFINED BY EPA OR THE STATE OR LOCAL AGENCY REGULATIONS, SHALL BE IMMEDIATELY REPORTED TO THE EPA NATIONAL RESPONSE CENTER (1-800-424-8802) AND CLAYTON COUNTY.

THE STATE REPORTABLE QUANTITY FOR PETROLEUM PRODUCTS IS:
IF THE PETROLEUM DISCHARGED, RELEASED OR SPILLED:
- IS 25 GALLONS OR MORE; OR
- CAUSES A SHEEN ON NEARBY SURFACE WATER, OR
- IS 100 FEET OR LESS FROM SURFACE WATER BODY,

THEN THE PERSON OWNING OR MANAGING AGENT OVER THE OIL MUST IMMEDIATELY TAKE MEASURE TO COLLECT AND REMOVE THE DISCHARGE, AND REPORT THE DISCHARGE TO GSWCC WITHIN 24 HOURS OF DISCHARGE, AND BEGIN TO RESTORE AREA AFFECTED BY DISCHARGE.

IF THE PETROLEUM RELEASED OR SPILLED:
- IS LESS THAN 25 GALLONS OR MORE;
- DOES NOT CAUSE A SHEEN ON NEARBY SURFACE WATER; AND
- IS MORE THAN 100 FEET OR LESS FROM SURFACE WATER BODY;

THEN THE PERSON WHO OWNS OR HAS CONTROL OVER THE OIL MUST IMMEDIATELY TAKE MEASURE TO COLLECT AND REMOVE THE DISCHARGE. IF IT CANNOT BE CLEANED UP WITHIN 24 HOURS OF THE DISCHARGE OR CAUSE A SHEEN ON NEARBY SURFACE WATER, THE PERSON MUST IMMEDIATELY NOTIFY GSWCC.

IF THE PETROLEUM RELEASED OR SPILLED IN ANY CIRCUMSTANCES DOES NOT MEET ONE OF THE ABOVE REQUIREMENTS, OR IS NOT PERFORMED BY GS 143-215.1, OR IT IS NOT PURSUANT TO A RULE ADOPTED BY THE ENVIRONMENTAL MANAGEMENT COMMISSION OR, A REGULATION OF USEPA, IT MUST BE REPORTED TO GSWCC IMMEDIATELY.
THE REPORTABLE QUANTITY FOR HAZARDOUS MATERIALS CAN BE FOUND IN SECTION 304 OF THE EPCRA

TO MINIMIZE THE POTENTIAL FOR A SPILL OF PETROLEUM PRODUCT OR HAZARDOUS MATERIALS TO COME IN CONTACT WITH STORMWATER, THE FOLLOWING STEPS SHALL BE IMPLEMENTED:

1. ALL MATERIALS WITH HAZARDOUS PROPERTIES, SUCH AS PESTICIDES, PETROLEUM PRODUCTS, FERTILIZERS, SOAPS, DETERGENTS, CONSTRUCTION CHEMICALS, ACIDS, BASES, PAINTS, PAINT SOLVENTS, ADDITIVES FOR SOIL STABILIZATION, CONCRETE CURING COMPOUNDS AND ADDITIVES, ETC., SHALL BE STORED IN A SECURE LOCATION, UNDER COVER AND IN APPROPRIATE, TIGHTLY SEALED CONTAINERS WHEN NOT IN USE.
2. THE MINIMUM PRACTICAL QUANTITY OF ALL SUCH MATERIALS SHALL BE KEPT ON THE JOB SITE AND SCHEDULED FOR DELIVERY AS CLOSE TO TIME OF USE AS PRACTICAL.
3. A SPILL CONTROL AND CONTAINMENT KIT (CONTAINING FOR EXAMPLE, ABSORBENT MATERIAL SUCH AS KITTY LITTER OR SAWDUST, ACID, BASE, NEUTRALIZING AGENT, BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, PLASTIC AND METAL TRASH CONTAINERS, ETC.) SHALL BE PROVIDED AT THE CONSTRUCTION SITE AND ITS LOCATION(S) SHALL BE IDENTIFIED WITH LEGIBLE SIGNAGE AND SHOWN ON SITE MAPS.
a. THE SPILL CONTROL AND CONTAINMENT KIT SUPPLIES SHALL BE OF SUFFICIENT QUANTITIES AND APPROPRIATE CONTENT TO CONTAIN A SPILL FROM THE LARGEST ANTICIPATED PIECE OF EQUIPMENT AND FROM THE LARGEST ANTICIPATED QUANTITIES OF PRODUCTS STORED ON THE SITE AT ANY GIVEN TIME.
b. CONTENTS SHALL BE INSPECTED DAILY DURING THE DAILY STORMWATER INSPECTION.
4. ALL PRODUCTS SHALL BE STORED IN AND USED FROM THE ORIGINAL CONTAINER WITH THE ORIGINAL PRODUCT LABEL. CONTAINERS MUST BE STORED IN A MANNER TO PROTECT THEM FROM THE ELEMENTS AND INCIDENTAL DAMAGE.
5. ALL PRODUCTS SHALL BE USED IN STRICT COMPLIANCE WITH INSTRUCTIONS ON THE PRODUCT LABEL.
6. THE DISPOSAL OF EXCESS OR USED PRODUCTS SHALL BE IN STRICT COMPLIANCE WITH INSTRUCTIONS ON THE PRODUCT LABEL AND REGULATIONS.

POLLUTANT REDUCTION PRACTICES - 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 AREAS WILL BE LOCATED AWAY FROM STATE WATERS, 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, 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/FIPISHES/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 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 OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE 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.

GSWCC EROSION AND SEDIMENT CONTROL NOTES

1. THE PRIMARY PERMITTEE OF THIS PROJECT IS RACETRAC PETROLEUM, INC. 200 GALLERIA PKWY, SUITE 900, ATLANTA, GA 30339,
CONTACT: TIM WILLIAMS, TEL: (404) 857-6165
2. THE TOTAL ACREAGE OF THE PROPERTY IS ± 6.64 AC AND THE TOTAL DISTURBED AREA IS ± 10.09 AC
3. THE PROPERTY IS LOCATED AT GPS LOCATION N33.632946°, W84.308286°. THE PROPERTY ADDRESS IS 4443 OLD DUNN CT, ELLENWOOD, GA 30294, FORSYTH COUNTY.
4. THE RECEIVING WATERS OF THIS PROJECT IS AN UNNAMED TRIBUTARY TO CONLEY CREEK TO THE WEST OF THE SITE. THE ULTIMATE RECEIVING WATER IS SOUTH CREEK, AN IMPAIRED STREAM PER GA EPD. SOUTH CREEK IS LOCATED APPROX. ±5.10 MI TO THE NORTHEAST OF THE PROJECT SITE.
5. THE IMPROVEMENTS FOR THIS PROJECT INCLUDE THE CONSTRUCTION OF A ±8,100 SF BUILDING, ASSOCIATED PARKING FACILITIES, FUEL CANOPIES, AND UNDERGROUND UTILITIES. AN UNDERGROUND STORM WATER DETENTION AND TREATMENT SYSTEM WILL BE CONSTRUCTED TO MITIGATE THE PROPOSED DEVELOPMENT IMPACT TO EXISTING CONDITIONS.
6. WASHOUT OF THE DRUM OF A CONCRETE TRUCK AT THE CONSTRUCTION SITE IS PROHIBITED. CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES WILL ONLY BE ALLOWED IN A DESIGNATED AREA PROVIDED FOR THIS PURPOSE, AS SHOWN ON THE DRAWINGS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE FOLLOWED:
a. CONTAIN ALL WASH WATER ON SOIL, IN A BOWL SHAPED AREA CREATED IN DESIGNATED WASH AREA TO PREVENT THE WASH WATER FROM FLOWING FROM THE WASHOUT AREA;
b. USE THE MINIMUM AMOUNT OF WATER TO WASH DOWN THE TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES;
c. REMOVE ANY CONCRETE SEDIMENT FROM THE AREA SURROUNDING THE WASHOUT AREA BEFORE IT HARDENS; AND
d. REMOVE ALL CONCRETE RESIDUE FROM THE DESIGNATED AREA ONCE IT HAS HARDENED.
7. ON-SITE BURIAL PITS ARE NOT ALLOWED AT ANY LOCATION.
8. ANY GRADING BEYOND THE LIMITS OF CONSTRUCTION SHOWN ON THIS PLAN IS SUBJECT TO A FINE.
9. GRADING 1 ACRE OR MORE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION AND SUBJECT TO A FINE.
10. GROUND STABILIZATION MUST OCCUR WITHIN 7 DAYS ON PERIMETER AREAS AND SLOPES GREATER THAN 3:1, AND GROUND STABILIZATION MUST OCCUR WITHIN 14 DAYS ON OTHER AREAS.
11. BASIN OUTLET STRUCTURES WITH DRAINAGE AREAS EQUAL OR GREATER THAN ONE ACRES MUST WITHDRAW WATER FROM THE SURF

ESCP CHECKLIST

ERDSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS

SWCD: _____

Project Name: _____ RaceTrac Ellenwood
Address: 4443 Old Dunn Ct, Ellenwood, GA 30294
City/County: Clayton County
Date on Plans: 10/9/2020
Name & email of person filling out checklist: _____ ALEX D'ANTONI

Plan Page #	Included Y/N	TO BE SHOWN ON ES&PC PLAN	
C2.13	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 ESAPC Plan or the Plan will not be reviewed)
C2 to C2.8	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 ESAPC plan or the Plan will not be reviewed)
N/A	NA	3	Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the EPD District Office. If EPD approves the request to disturb 50 acres or more at any one time, the Plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist. (A copy of the written approval by EPD must be attached to the plan for the Plan to be reviewed.)
C2 to C2.8	Y	4	The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
C2.13	Y	5	Provide the name, address, **email address**, and phone number of primary permittee.
C2 to C2.8	Y	6	Note total and disturbed acreage of the project or phase under construction.
C2 to C2.8	Y	7	Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
C2 to C2.13	Y	8	Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
C2 to C2.8	Y	9	Description of the nature of construction activity.
C2.13	Y	10	Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
C2.12	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.
C2 to C2.8	Y	12	Design professional's certification statement and signature that the site was visited prior to development of the ESAPC Plan as stated on Part IV page 19 of the permit.
C2 to C2.8	Y	13	Design professional's certification statement and signature that the permittee's ESAPC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 19 of the permit. *
C2 to C2.8	Y	14	Clearly note the statement that "The design professional who prepared the ESAPC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation." in accordance with Part IV.A.5 page 25 of the permit. *
C2 to C2.8	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 costal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
N/A	Y	16	Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
C2 to C2.8	Y	17	Clearly note the statement that "Amendmental revisions to the ESAPC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional." *
C2 to C2.8	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." *
C2 to C2.8	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."
C2 to C2.8	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."
C2 to C2.8	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."
N/A	N/A	22	Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Biota Impaired Stream Segment must comply with Part III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
N/A	N/A	23	If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in Item 22 above) at least six months prior to submittal of NOI, the ESAPC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *
C2 to C2.5	Y	24	BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited. *
C2.3 to C2.5	Y	25	Provide BMPs for the remediation of all petroleum spills and leaks.
C2.6 to C2.8	Y	26	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. *
C2.6 to C2.8	Y	27	Description of practices to provide cover for building materials and building products on site. *
C2.12	Y	28	Description of the practices that will be used to reduce the pollutants in storm water discharges. *
C2.13	Y	29	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, temporary and final stabilization).
C2.13	Y	30	Provide complete requirements of inspections and record keeping by the primary permittee. *
C2.13	Y	31	Provide complete requirements of sampling frequency and reporting of sampling results. *
C2.13	Y	32	Provide complete details for retention of records as per Part IV.F. of the permit. *
C2.13	Y	33	Description of analytical methods to be used to collect and analyze the samples from each location. *
C2.13	Y	34	Appendix B rationale for NTU values at all outfall sampling points where applicable. *
C2 to C2.8	Y	35	Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged. *
C2 to C2.8	Y	36	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 perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase. *
C2 to C2.8	Y	37	Graphic scale and North arrow
C2 to C2.8	Y	38	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%	0.5 or 1
	Rolling 2 - 8%	1 or 2
	Steep 8% +	2.5 or 10

N/A	N/A	39	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 EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org.
N/A	N/A	40	Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *
C2 to C2.8	Y	41	Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
C2 to C2.8	Y	42	Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
See Hydrology	Y	43	Delineation and acreage of contributing drainage basins on the project site.
See Hydrology	Y	44	Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. *
See Hydrology	Y	45	An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
C2 to C2.5	Y	46	Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
C2 to C2.2	Y	47	Soil series for the project site and their delineation.
C2 to C2.8	Y	48	The limits of disturbance for each phase of construction.
C2 to C2.5	Y	49	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 included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment 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 Plan.
C2 to C2.8	Y	50	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.
C2.9 to C2.11	Y	51	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.
C2 to C2.8	Y	52	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 the year that seeding will take place and for the appropriate geographic region of Georgia.

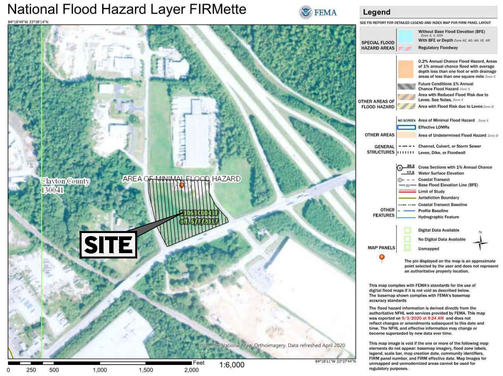
* If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream, the * checklist items would be N/A.

Effective January 1, 2020

FEMA FIRM MAP 13063C0043F

N.T.S.

National Flood Hazard Layer FIRMette



FLOOD CERTIFICATION

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENTS AGENCY'S FLOOD INSURANCE RATE MAPS (FIRM) 13063C0043F, EFFECTIVE ON 06/07/2017, THE PROJECT SITE LIES WITHIN ZONE X, WHICH IS OUTSIDE ANY ESTABLISHED FLOOD HAZARD AREA.

CONSTRUCTION SCHEDULE

CONSRUCTION SCHEDULE

	2021/2022							
	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN
PHASE I								
INSTALL THE SWPPP INFORMATION SIGN AND POST REQUIRED DOCUMENTS NEAR THE PLANNED CONSTRUCTION EXIT, AND WITHIN EASY ACCESS TO THE GENERAL PUBLIC WITHOUT ENTERING THE SITE.								
STAKE/FLAG THE LOD (WHERE STAKING IS NOT POSSIBLE/PRACTICAL, THE LOD MUST BE CONSPICUOUSLY, AND PROMINENTLY, MARKED TO DENOTE THE BOUNDARY). LOD MUST REMAIN CONSPICUOUSLY MARKED THROUGHOUT THE ENTIRE CONSTRUCTION PROJECT.								
INSTALL PERIMETER SEDIMENT CONTROL BMPS IN THE VICINITY OF, AND DOWN GRADIENT FROM, THE LOCATION OF THE PLANNED CONSTRUCTION EXIT, CONSTRUCTION OFFICE TRAILER, AND TEMPORARY PARKING AND STORAGE AREAS. CLEAR ONLY THE MINIMUM AREA ABSOLUTELY NECESSARY TO INSTALL THESE PERIMETER CONTROL BMPS.								
INSTALL STABILIZED CONSTRUCTION EXIT, AND SET THE PROJECT OFFICE TRAILER.								
INSTALL REMAINING PERIMETER SEDIMENT CONTROL BMPS, AS SHOWN ON THE SITE MAPS. CLEAR ONLY THE MINIMUM AREA NECESSARY TO INSTALL PERIMETER CONTROL BMPS								
PREPARE TEMPORARY PARKING AND STORAGE AREA								
INSTALL TEMPORARY SEDIMENTATION TRAPS. TRAPS MUST BE FULLY FUNCTIONAL BEFORE MASS CLEARING, GRADING OR EARTH MOVING OPERATIONS BEGIN.								
PHASE II								
BEGIN GRADING THE SITE								
INSTALL UNDERGROUND UTILITIES, STORM SEWER PIPES.								
BEGIN INSTALLATION OF INLET PROTECTION MEASURES AS INLETS ARE INSTALLED.								
MUCK TEMPORARY SEDIMENT TRAPS AND BRING TO FINAL GRADE AS CONSTRUCTION PROGRESSES								
TEMPORARILY STABILIZE, THROUGHOUT CONSTRUCTION IMMEDIATELY FOLLOWING THE COMPLETION OF THE MOST RECENT LAND DISTURBING/GRADING ACTIVITY, ANY DISTURBED AREAS, INCLUDING MATERIAL STOCKPILES THAT ARE SCHEDULED OR LIKELY TO REMAIN INACTIVE FOR 14 DAYS OR MORE.								
IMMEDIATELY PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.								
PREPARE SITE FOR PAVING								
BEGIN INSTALLATION OF CURB/GUTTER, AND BUILDING FOUNDATION								
PHASE III								
PROVIDE PERMANENT PIPE CONNECTIONS. ENSURE ALL PERMANENT PIPES ARE FULLY OPERATIONAL								
FINISH CURB/GUTTER AND PAVING OF SITE.								
COMPLETE GRADING AND INSTALLATION OF PERMANENT STABILIZATION OVER ALL AREAS.								
COMPLETE CONSTRUCTION OF BUILDING.								
REMOVE ALL REMAINING TEMPORARY EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPS).								
STABILIZE ANY AREAS DISTURBED BY THE REMOVAL OF TEMPORARY BMPS								
CONTINUE DAILY INSPECTIONS AND REPORTS UNTIL THE SITE IS FULLY STABILIZED AND THE GENERAL CONSTRUCTION PERMIT GAR100001 IS TERMINATED								

***START OF CONSTRUCTION DATE IS SUBJECT TO CHANGE**

OWNER/PRIMARY PERMITTEE

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY S.E.,
SUITE 900
ATLANTA, GA 30339
TIM WILLIAMS
(404) 857-6165
TWILLIAMS@RACETRAC.COM

DESIGN PROFESSIONAL 7-DAY VISIT CERTIFICATION

DATE OF INSPECTION: _____

I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ES&PC PLAN ON THE DATE OF INSPECTION

_____ 0000073356
GSWCC LEVEL II DESIGN PROFESSIONAL CERTIFICATION #

INSPECTION REVEALED THE FOLLOWING DISCREPANCIES FROM THE ES&PC PLAN:

_____

_____

_____

THESE DEFICIENCIES MUST BE ADDRESSED IMMEDIATELY AND A RE-INSPECTION SCHEDULED. WORK SHALL NOT PROCEED ON THE SITE UNTIL DESIGN PROFESSIONAL CERTIFICATION IS OBTAINED

DESIGN PROFESSIONAL'S CERTIFICATION:

(1) 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 STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH LAND DISTURBING ACTIVITY WAS PERMITTED. THE PLAN PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALL. THE DESIGNATED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENT CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR GAR100001.

(2) "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 DIRECT SUPERVISION."

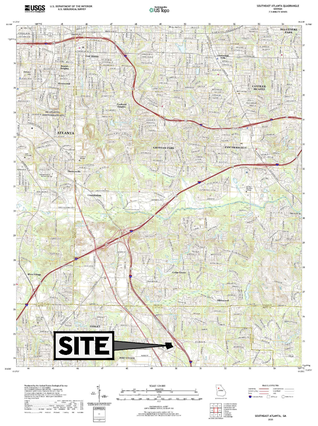
(3) "I CERTIFY UNDER THE PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED UPON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

ISSUED: 05/08/2018
EXPIRES: 05/08/2024

Brett Buckland _____ 0000083972
GSWCC LEVEL II DESIGN PROFESSIONAL CERTIFICATION #

U.S.G.S TOPOGRAPHIC MAP

N.T.S.



LOCATION MAP

SCALE: NTS
PLAN REFERENCE: GOOGLE EARTH

APPENDIX B NEPHELOMETRIC TURBIDITY UNIT (NTU) TABLE

WATERS SUPPORTING WARM WATER FISHERIES

Site Size (Acres)	Surface Water Drainage Area (Square Miles) 0-4.99	5-9.99	10-24.99	25-49.99	50-99.99
1.00-10	75	150	200	400	750
10.01-25	50	100	100	200	300
25.01-50	50	50	100	100	200
50.01-100	50	50	50	100	100
100.01+	50	50	50	50	50

NOTES:

1. ALL OUTFALL SAMPLING POINTS SHALL CONFORM TO AN NTU VALUE OF 75 PER THE ABOVE TABLE, AS FOUND AT A SITE BETWEEN 1.00 AND 10 ACRES IN SIZE WITH A DRAINAGE AREA OF LESS THAN 5 SQUARE MILES.
2. SOURCE: STATE OF GEORGIA DEPARTMENT OF NATURAL RESOURCES ENVIRONMENTAL PROTECTION DIVISION, GENERAL PERMIT NO. GAR10001

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. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
   b. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
   c. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THE GENERAL PERMIT;
   d. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THE GENERAL PERMIT;
   e. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THE GENERAL PERMIT;
   f. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART OF THE GENERAL PERMIT; AND
   g. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2). OF THE GENERAL PERMIT.
2. 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 PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT 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 OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

SAMPLING REQUIREMENTS:

THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THIS PARAGRAPH SHALL NOT APPLY TO ANY LAND DISTURBANCE ASSOCIATED WITH THE CONSTRUCTION OF SINGLE-FAMILY RESIDENCES WHICH ARE NOT APART OF A COMMON DEVELOPMENT OR SUBDIVISION OR UNLESS FIVE (5) ACRES OR MORE WILL BE DISTURBED. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY.

A. SAMPLING REQUIREMENTS SHALL INCLUDE:

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 1:24,000 MAP SHOWING THE LOCATION OF THE SITE OR THE STAND ALONE CONSTRUCTION; (1) THE LOCATION OF ALL PERENNIAL LAND 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, TO WHICH THE STORM AFTER IS DISCHARGED AND (2) 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 STORM WATER(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. A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT, HANDLE AND ANALYZE THE SAMPLES INCLUDING THE QUALITY CONTROLQUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION.
3. WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE SAMPLED, A RATIONALE MUST BE INCLUDED ON THE PLAN FOR THE NTU LIMIT(S)SO SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA AND THE TYPE OF RECEIVING WATERS.
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 TIME LINE FOR SUBMITTAL.

B. SAMPLING 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 PARK 136; 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.

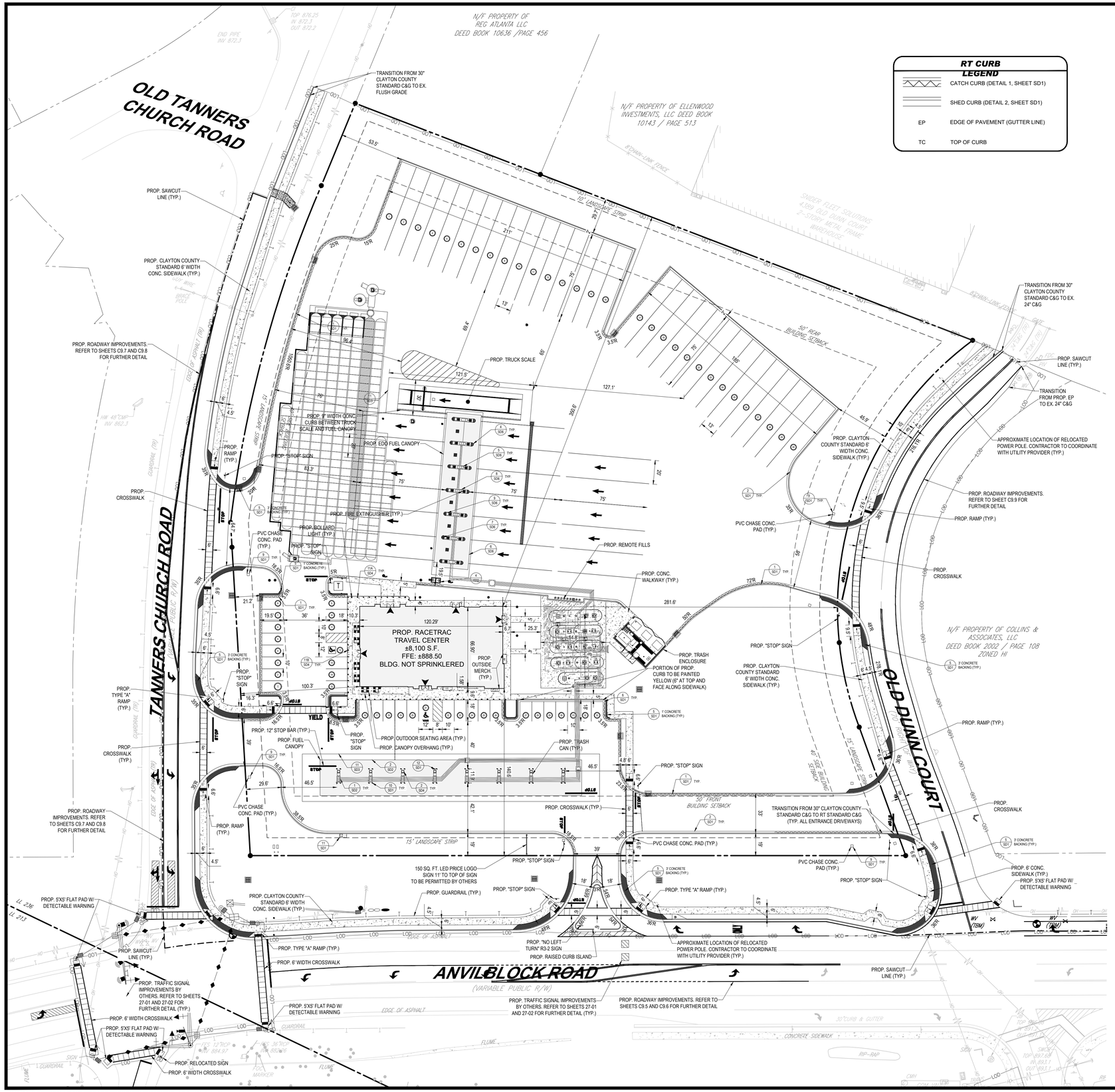
1. SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.
2. SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
3. LARGE MOUTH, WELL, CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTION SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.
4. MANUAL, AUTOMATIC OR SAMPLING 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 SAMPLES MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION. UNLESS FLOW THROUGH AUTOMATIC ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVE DURING THE QUALIFYING EVENT, THE PERMITTEE MUST UTILIZED MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IN NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.
5. SAMPLING AND ANALYSIS OF THE RECEIVING WATERS OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THE PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

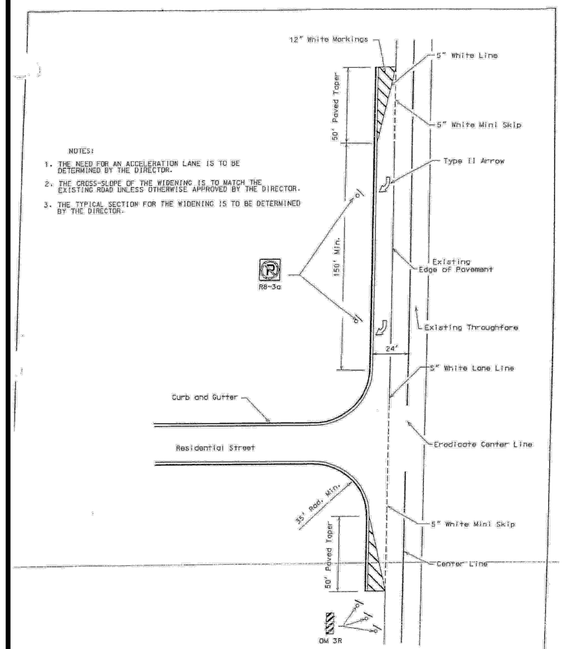
C. SAMPLING POINTS

1. FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATERS OR ALL OUTFALLS OR A COMBINATION OF RECEIVING WATERS AND OUTFALLS. 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 WATERS AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES.
   a. THE UPSTREAM SAMPLE FOR EACH RECEIVING WATERS MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATERS MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE FOR THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.
   b. THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATERS MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATERS 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 WATERS OR THE STORM WATER OUTFALL CHANNELS.
   d. CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATERS OR THE OUTFALL STORM WATER CHANNEL.
   e. THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.
   f. THE SAMPLES 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 A 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 III.D.3 OR III.D.4, WHICHEVER IS APPLICABLE.

D. SAMPLING FREQUENCY

1. THE PRIMARY PERMITTEE 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 STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER AND FROM A A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE MINUTES OR AS SOON AS POSSIBLE.
2. HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.
3. SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:
   a. FOR EACH AREA OF THE SITE THA

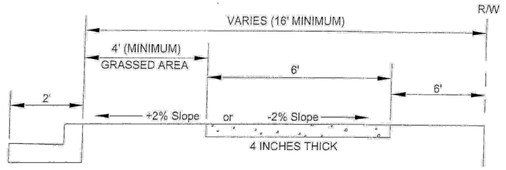

OLD TANNERS CHURCH ROAD
TANNERS CHURCH ROAD
ANVILBLOCK ROAD
(VARIABLE PUBLIC R/W)
OLD DUNN COURT
N/F PROPERTY OF REG ATLANTA LLC DEED BOOK 10636 / PAGE 456
N/F PROPERTY OF ELLENWOOD INVESTMENTS, LLC DEED BOOK 10143 / PAGE 513
N/F PROPERTY OF COLLINS & ASSOCIATES, LLC DEED BOOK 2002 / PAGE 108 ZONED HI
PROP. RACETRAC TRAVEL CENTER ±8,100 S.F. FFE: ±888.50 BLDG. NOT SPRINKLERED
PROP. OUTSIDE MERCH. (TYP.)
PROP. OUTDOOR SEATING AREA (TYP.)
PROP. CANOPY OVERHANG (TYP.)
PROP. FUEL CANOPY
PROP. EDG FUEL CANOPY
PROP. 5' WIDTH CONC. CURB BETWEEN TRUCK SCALE AND FUEL CANOPY
PROP. TRUCK SCALE
PROP. CONC. WALKWAY (TYP.)
PROP. REMOTE FILLS
PROP. TRASH ENCLOSURE
PROP. TRASH CAN (TYP.)
PROP. FIRE EXTINGUISHER (TYP.)
PROP. BOLLARD LIGHT (TYP.)
PROP. "STOP" SIGN
PROP. "STOP" SIGN
PROP. 12" STOP BAR (TYP.)
PROP. 6' WIDTH CROSSWALK
PROP. CROSSWALK (TYP.)
PROP. TYPE "A" RAMP (TYP.)
PROP. RAMP (TYP.)
PROP. SAWCUT LINE (TYP.)
PROP. CLAYTON COUNTY STANDARD 6' WIDTH CONC. SIDEWALK (TYP.)
PROP. ROADWAY IMPROVEMENTS. REFER TO SHEETS C9.7 AND C9.8 FOR FURTHER DETAIL
PROP. ROADWAY IMPROVEMENTS. REFER TO SHEETS C9.7 AND C9.8 FOR FURTHER DETAIL
PROP. 5'X5' FLAT PAD W/ DETECTABLE WARNING
PROP. RELOCATED SIGN
PROP. TRAFFIC SIGNAL IMPROVEMENTS BY OTHERS. REFER TO SHEETS 27-01 AND 27-02 FOR FURTHER DETAIL (TYP.)
PROP. "NO LEFT TURN" R3-2 SIGN
PROP. RAISED CURB ISLAND
PROP. TRAFFIC SIGNAL IMPROVEMENTS BY OTHERS. REFER TO SHEETS 27-01 AND 27-02 FOR FURTHER DETAIL (TYP.)
PROP. ROADWAY IMPROVEMENTS. REFER TO SHEETS C9.5 AND C9.6 FOR FURTHER DETAIL
150 SQ. FT. LED PRICE LOGO SIGN 11' TO TOP OF SIGN TO BE PERMITTED BY OTHERS
PROP. GUARDRAIL (TYP.)
PROP. CLAYTON COUNTY STANDARD 6' WIDTH CONC. SIDEWALK (TYP.)
PROP. 6' CONC. SIDEWALK (TYP.)
PROP. 5'X5' FLAT PAD W/ DETECTABLE WARNING
PROP. TYPE "A" RAMP (TYP.)
PROP. 6' WIDTH CROSSWALK
PROP. 5'X5' FLAT PAD W/ DETECTABLE WARNING
PROP. 6' WIDTH CROSSWALK
PROP. RELOCATED SIGN
PVC CHASE CONC. PAD (TYP.)
PVC CHASE CONC. PAD (TYP.)
PVC CHASE CONC. PAD (TYP.)
PVC CHASE CONC. PAD (TYP.)
PVC CHASE CONC. PAD (TYP.)
PROP. "STOP" SIGN
PROP. "STOP" SIGN
PROP. "STOP" SIGN
PROP. "STOP" SIGN
PROP. "STOP" SIGN
PROP. CROSSWALK (TYP.)
PROP. CROSSWALK
PROP. CROSSWALK
PROP. RAMP (TYP.)
PROP. RAMP (TYP.)
PROP. RAMP (TYP.)
PROP. TYPE "A" RAMP (TYP.)
PROP. TYPE "A" RAMP (TYP.)
PROP. SAWCUT LINE (TYP.)
PROP. SAWCUT LINE (TYP.)
PROP. SAWCUT LINE (TYP.)
TRANSITION FROM 30" CLAYTON COUNTY STANDARD C&G TO EX. FLUSH GRADE
TRANSITION FROM 30" CLAYTON COUNTY STANDARD C&G TO EX. 24" C&G
TRANSITION FROM PROP. EP TO EX. 24" C&G
TRANSITION FROM 30" CLAYTON COUNTY STANDARD C&G TO RT STANDARD C&G (TYP. ALL ENTRANCE DRIVEWAYS)
APPROXIMATE LOCATION OF RELOCATED POWER POLE. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER (TYP.)
APPROXIMATE LOCATION OF RELOCATED POWER POLE. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER (TYP.)
50' REAR BUILDING SETBACK
50' FRONT BUILDING SETBACK
15' LANDSCAPE STRIP
40' SIDE BUILDING SETBACK
20' LANDSCAPE STRIP
6'-PAWN-LIKE FENCE
SNEER FLEET SOLUTIONS 4305 OLD DUNN COURT 2-STORY MASTL FRAME WAREHOUSE
EDGE OF ASPHALT (TYP)
GUARDRAIL (TYP)
FLUME
CONCRETE SIDEWALK
RIP-RAP
SWALE
30" CURB & GUTTER
TOP 876.25 IN 872.3 OUT 872.2
END PIPE INV 872.3
INV 872.3
INV 862.3
INV 48"CMP INV 862.3
LL 2.95
LL 2.13
STOP
YIELD
ONE WAY
DO NOT ENTER
WRONG WAY
NO LEFT TURN
NO RIGHT TURN
ONLY
ONLY
ONLY



CLAYTON COUNTY TRANSPORTATION and DEVELOPMENT | STD. NO.

Description: DECELERATION LANES | 201

SIDEWALK CONSTRUCTION COMMERICAL AREAS (INTERIOR STREETS)

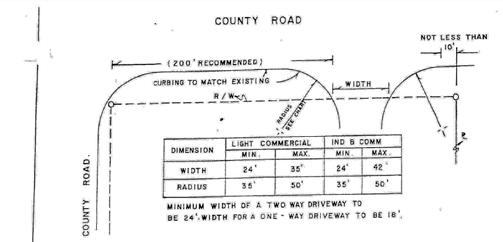


4 INCHES THICK
6 FEET MINIMUM WIDTH
2500 PSI MINIMUM CONCRETE STRENGTH (28 DAYS)
1/2" JOINT PLACED EVERY 20 FEET.
92% MINIMUM COMPACTION IS REQUIRED UNDER SIDEWALKS
FALSE JOINTS ARE TO BE PLACED EVERY 4 FEET.

CLAYTON COUNTY
DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

STANDARD DETAILS FOR:
SIDEWALK CONSTRUCTION
COMMERCIAL AREAS
(INTERIOR STREETS)

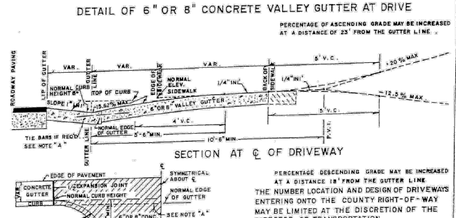
DATE: | APPROVED BY: | Standard No. 103



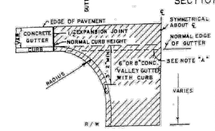
DIMENSION	LIGHT COMMERCIAL MIN.	LIGHT COMMERCIAL MAX.	IND & COMM MIN.	IND & COMM MAX.
WIDTH	24'	35'	24'	42'
RADIUS	35'	50'	35'	50'

MINIMUM WIDTH OF A TWO WAY DRIVEWAY TO BE 24', WIDTH FOR A ONE - WAY DRIVEWAY TO BE 18'.

DETAIL OF 6" OR 8" CONCRETE VALLEY GUTTER AT DRIVE



SECTION AT ℄ OF DRIVEWAY

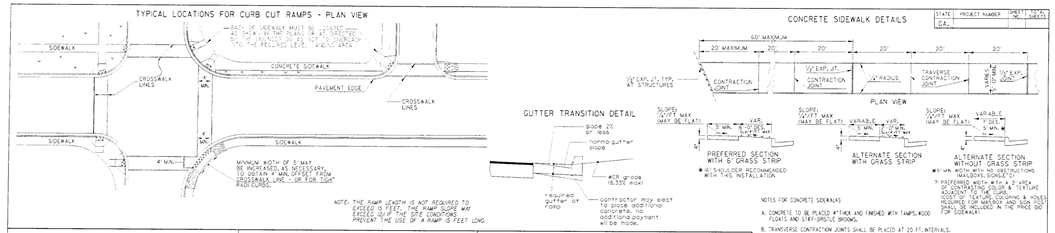


PERCENTAGE DESCENDING GRADE MAY BE INCREASED AT A DISTANCE 18' FROM THE GUTTER LINE.
THE NUMBER LOCATION AND DESIGN OF DRIVEWAYS ENTERING ONTO THE COUNTY RIGHT-OF-WAY MAY BE LIMITED AT THE DISCRETION OF THE DIRECTOR OF TRANSPORTATION AND DEVELOPMENT

CLAYTON COUNTY
DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

STANDARD DETAILS FOR:
COMMERCIAL/INDUSTRIAL DRIVEWAYS

DATE: | APPROVED BY: | Standard No. 205



NOTES FOR CONCRETE SIDEWALKS

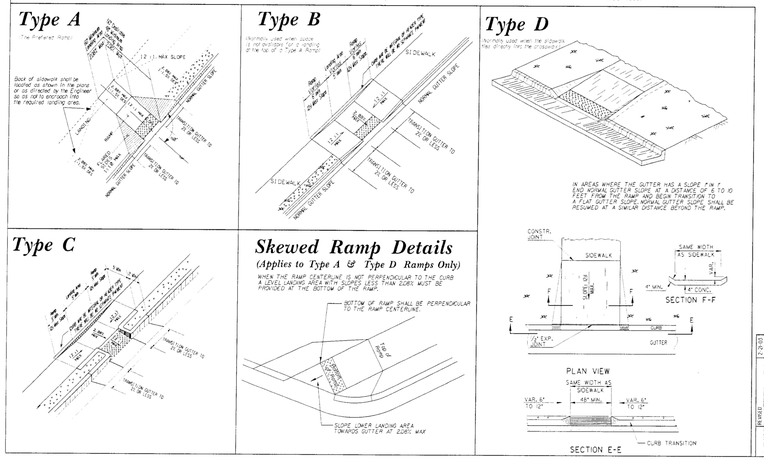
A. CONCRETE TO BE PLACED #7 THICK AND FINISHED WITH TAMPS, WOOD FLOATS AND LIGHT BROOM.

B. TRANSVERSE CONTRACTION JOINTS SHALL BE PLACED AT 20 FT. INTERVALS. ALL CODES TO BE ROUNDED TO ½ INCHES.

C. (1) EXPANSION JOINTS SHALL BE PLACED WHERE SIDEWALKS 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 RAMP 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 BASINS SHOULD BE LOCATED AT LEAST 10 FT. FROM RAMPS WHEN FEASIBLE.
4. WHERE RAMPS ARE LOCATED ON RAILS, 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 DESIGN MAY BE MODIFIED BY THE DESIGNER OR ENGINEER, PROVIDED THAT THE WIDTH REMAINING A MINIMUM OF 48 INCHES, AND NO SLOPE ON THE ACCESSIBLE PART OF THE RAMP IS STEEPER THAN 1:11.
6. L.IN. FT. OF CURB AND GUTTER WILL INCLUDE THE TRANSITIONAL CURB ON 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 THE REMOVAL OF THE PAVEMENT.



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 modified in metric units, it will be necessary to convert to metric units to do so accurately, the dimensions shown that are in "feet and inches" may be converted to the corresponding metric units using the following: 1 foot=0.3048 meters or fraction = .0254m, 1"=100mm and 12" or 1'=300mm. All measurement terms that refer to linear feet and square yards shall be interpreted to mean linear meters and square meters.

NO.	DATE	BY	REVISION
1	10/27/22	NF	PHASE 2 BID PLANS

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SPECIAL DETAIL
CONCRETE SIDEWALK DETAILS
CURB CUT (WHEELCHAIR) RAMPS

NO SCALE | MARCH 10, 2002 | A3

HIGH BACK CURB

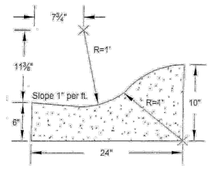
FOR USE IN LIGHT COMMERCIAL AND RESIDENTIAL DEVELOPMENT

FOR USE IN COMMERCIAL/INDUSTRIAL DEVELOPMENTS AND ON COUNTY ROADWAYS

ALL CONCRETE FOR CONSTRUCTION WITHIN THE RIGHT-OF-WAY IS TO BE A CERTIFIED MIX FROM A GEORGIA D.O.T. APPROVED PLANT.
ALL CURB AND GUTTER IS TO BE CONSTRUCTED PER GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, SECTION 441
FOR ADDITIONAL INFORMATION, SEE GEORGIA D.O.T. STD 9032 B, TYPE 2.

***ALL CURB AND GUTTER IS TO BE CONSTRUCTED WITH 6" COMPACTED GAB**

ROLLED BACK CURB

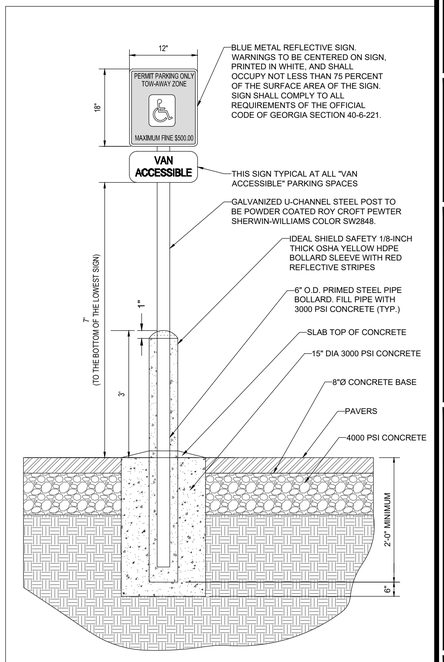


* WHEN TYING TO SUBDIVISIONS WITH HIGH BACK CURB & GUTTER, HIGH BACK CURB & GUTTER WILL BE REQUIRED

CLAYTON COUNTY
DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

STANDARD DETAILS FOR:
CURB & GUTTER

DATE: | APPROVED BY: | Standard No. 101



NOTE:

ONE AT EACH ADA SPACE BEHIND 6" BOLLARD. WHERE ADA SPACES FACE EACH OTHER WITHOUT WALKWAY, THERE SHALL BE ONE POST WITH SIGNS MOUNTED BOTH ON SIDES.

ADA PARKING SIGN WITH BOLLARD - GA
NOT TO SCALE

BOHLER
211 PERIMETER CENTER PKWY NE, SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
GA@BohlerEng.com

FOR BIDDING PURPOSES ONLY

THESE PLANS ARE SUBJECT TO FEDERAL COPYRIGHT LAWS. ANY USE OF SAME WITHOUT THE EXPRESSED WRITTEN PERMISSION OF RACETRAC PETROLEUM, INC. IS PROHIBITED.

RaceTrac

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY, SUITE 900
ATLANTA, GA 30339
(404) 857-6165

SITE DETAILS

4443 OLD DUNN COURT
ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	NTS
PROJECT No: GA204012	
C3.1	1
SHEET NO.	REVISION

H:\2020\GA204012\DRAWINGS\PLAN SETS\PHASE 2 BID PLANS\GA204012-SDP-2.DWG PRINTED BY: NFUSS 10:27:22 @ 8:03 AM LAST SAVED BY: NFUSS

OWNER/DEVELOPER

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY S.E.,
SUITE 900
ATLANTA, GA 30339
TIM WILLIAMS:
(404) 857-6165

GRADING LEGEND

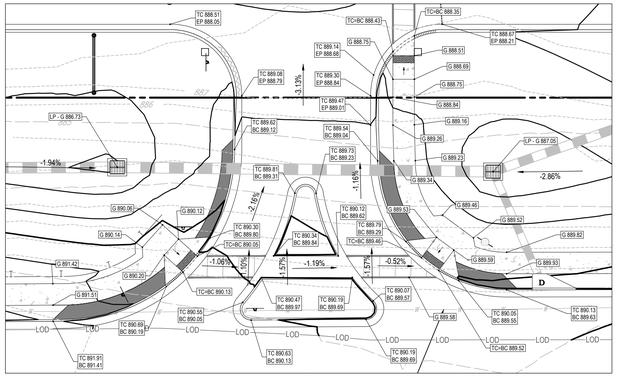
EXISTING NOTE	TYPICAL NOTE TEXT	PROPOSED NOTE
XX / XX	CONTOUR LINE	XX / XX
TC:XXXX OR XXXX	SPOT ELEVATIONS	G XX.XX / TC XX.XX EP XX.XX
	STORM SEWER	
D	STORM MANHOLE	D
	YARD INLET	
	CURB INLET	

RT CURB LEGEND

	CATCH CURB (DETAIL 1, SHEET SD1)
	SHED CURB (DETAIL 2, SHEET SD1)
EP	EDGE OF PAVEMENT (GUTTER LINE)
TC	TOP OF CURB

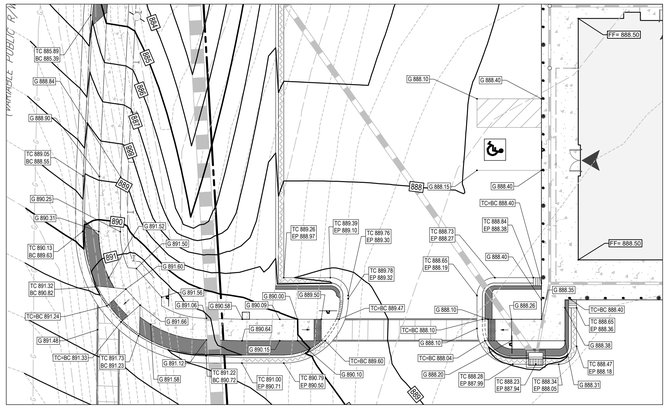
LOCATION MAP

SCALE: NTS
PLAN REFERENCE: GOOGLE EARTH



INSET A

1"=20'



INSET B

1"=20'

GRADING NOTES:

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
2. ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED. SLOPE MATTING IS TO BE USED FOR SLOPES STEEPER THAN 3:1.
3. EXISTING GRADE CONTOUR INTERVALS SHOWN AT 1'.
4. PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 1' INTERVALS.
5. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
6. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
7. TOPOGRAPHIC INFORMATION IS TAKEN FROM AN ALTA/NSPS SURVEY BY GEOSURVEY, LTD. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
8. ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH GOVERNING SPECIFICATIONS UNTIL A HEALTHY STAND OF VEGETATION IS OBTAINED.
9. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODE AND BE CONSTRUCTED TO SAME.
10. FOR FOUNDATION SUBSURFACE PREPARATION NOTE, REFERENCE GEOTECHNICAL REPORT.

40 20 10 0 40
1"= 40'

NO.	REVISION	BY	DATE
1	PHASE 2 BID PLANS	NF	10/27/22

BOHLER
211 PERIMETER CENTER PKWY NE,
SUITE 425
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200 GALLERIA PARKWAY SE, SUITE 900
ATLANTA, GA 30339
(404) 857-6165

GRADING PLAN

4443 OLD DUNN COURT
ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	1"=40'
PROJECT No: GA204012	
C4	1
SHEET NO.	REVISION

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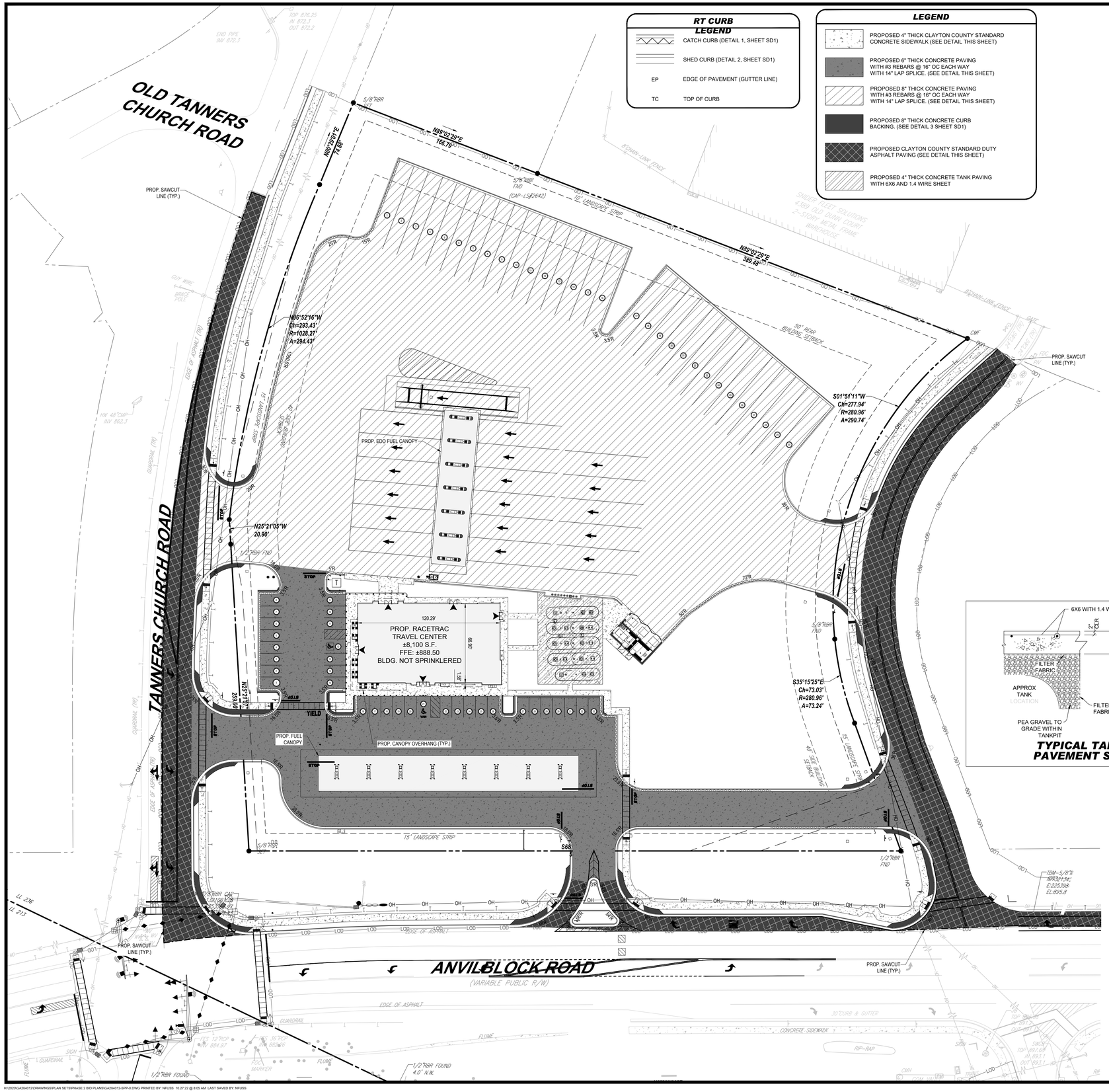
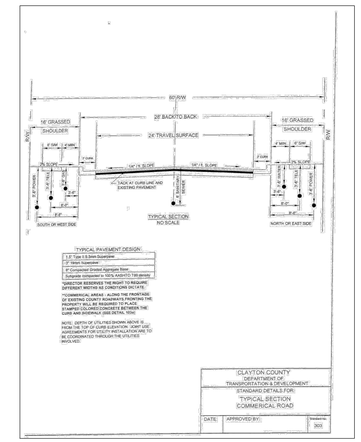


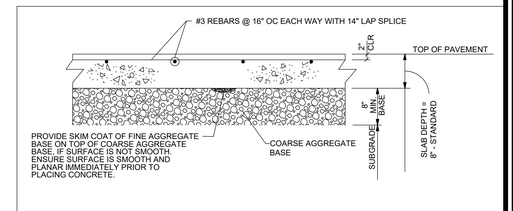
RT CURB LEGEND

	CATCH CURB (DETAIL 1, SHEET SD1)
	SHED CURB (DETAIL 2, SHEET SD1)
EP	EDGE OF PAVEMENT (GUTTER LINE)
TC	TOP OF CURB

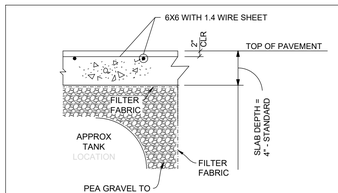
LEGEND

- PROPOSED 4" THICK CLAYTON COUNTY STANDARD CONCRETE SIDEWALK (SEE DETAIL THIS SHEET)
- PROPOSED 6" THICK CONCRETE PAVING WITH #3 REBARS @ 16" OC EACH WAY WITH 14" LAP SPLICE. (SEE DETAIL THIS SHEET)
- PROPOSED 8" THICK CONCRETE PAVING WITH #3 REBARS @ 16" OC EACH WAY WITH 14" LAP SPLICE. (SEE DETAIL THIS SHEET)
- PROPOSED 8" THICK CONCRETE CURB BACKING. (SEE DETAIL 3 SHEET SD1)
- PROPOSED CLAYTON COUNTY STANDARD DUTY ASPHALT PAVING (SEE DETAIL THIS SHEET)
- PROPOSED 4" THICK CONCRETE TANK PAVING WITH 6X6 AND 1.4 WIRE SHEET

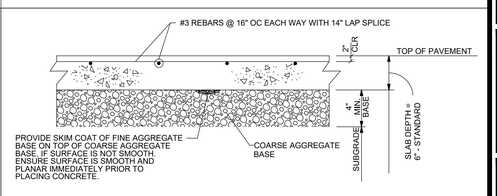




TYPICAL 8" CONCRETE PAVEMENT SECTION



TYPICAL TANK PAD PAVEMENT SECTION



TYPICAL 6" CONCRETE PAVEMENT SECTION

PAVING PLAN NOTES:

1. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" LATEST EDITION.
2. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE STATE DOT STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES. CONTRACTOR SHALL REVIEW ALL TRAFFIC CONTROL DEVICES WITH DOT PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS FOR PARKING STALLS, HANDICAPPED PARKING SYMBOLS, AND MISCELLANEOUS STRIPING WITHIN PARKING LOT AND AROUND BUILDING.
4. ALL HANDICAP RAMPING, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT OF 1990.
5. CONTRACTOR TO SUBMIT A JOINTING PLAN TO THE CONSTRUCTION MANAGER PRIOR TO THE BEGINNING OF ANY PAVING WORK.
6. PAVING CONTRACTOR TO COORDINATE WITH BUILDING CONTRACTOR ON THE CONSTRUCTION AND PAVING NEAR THE SCREENING WALLS AND THE DUMPSTER PADS.
7. ALL DISCREPANCIES FOUND BY CONTRACTOR RELATED TO UNDERGROUND UTILITIES OR OTHER APPURTENANCES SHALL BE RESOLVED TO THE SATISFACTION OF OWNER AND ENGINEER PRIOR TO PLACEMENT OF ANY PAVING. CONTRACTOR TO ENSURE POSITIVE DRAINAGE FROM THE PROPOSED BUILDINGS AND NO PONDING IN SUBGRADE OF AREAS TO BE PAVED, AND NOTIFY OWNER AND ENGINEER IF ANY DISCREPANCIES ARE FOUND PRIOR TO INSTALLATION OF ANY PAVING.
8. EXISTING MANHOLE TOPS, VALVE BOXES, ETC. ARE TO BE ADJUSTED AS REQUIRED TO MATCH PROPOSED GRADES. IF NECESSARY, RE-ADJUSTMENTS SHALL BE PERFORMED UPON COMPLETION OF PAVING AND FINE GRADING TO ENSURE A SMOOTH TRANSITION.
9. ALL PAVEMENT TO BE SLOPED FOR POSITIVE DRAINAGE.

OWNER/DEVELOPER

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY S.E.,
SUITE 900
ATLANTA, GA 30339
TIM WILLIAMS:
(404) 857-6165

40 20 10 0 40
1"= 40'

NO.	REVISION	BY	DATE
1	PHASE 2 BID PLANS	NF	10/27/22

BOHLER
211 PERIMETER CENTER PKWY NE,
SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
GA@BohlerEng.com

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RACETRAC PETROLEUM, INC.
LEGAL PROJECTS - SUITE 900
200 GALLERIA PKWY SE
ATLANTA, GA 30339
(404) 857-6165

PAVING PLAN

4443 OLD DUNN COURT
ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	1"=40'
PROJECT No: GA204012	
C5	1
SHEET NO.	REVISION

N/F PROPERTY OF
REG ATLANTA LLC
DEED BOOK 10636 /PAGE 456

N/F PROPERTY OF ELLENWOOD
INVESTMENTS, LLC DEED BOOK
10143 / PAGE 513

OLD TANNERS
CHURCH ROAD

PROP. SAWCUT
LINE (TYP.)

END PIPE
INV 873.1

TOP 876.25
IN 872.3
OUT 872.2

GUY WIRE

EDGE OF ASPHALT (TYP)

INV 48"CMP
INV 862.3

GUARDRAIL (TYP)

10' LANDSCAPE STRIP

50' REAR
BUILDING SETBACK

SNIDER FLEET SOLUTIONS
4389 OLD DUNN COURT
2-STORY METAL FRAME
WAREHOUSE

8'CHAIN-LINK FENCE

GATE

PROP. SAWCUT
LINE (TYP.)

TANNERS CHURCH ROAD
(VARIABLE PUBLIC R/W)

EDGE OF ASPHALT 1.5%

CONCRETE SIDEWALK 1.5%

INV 12"RCP
INV 864.97

INV 36"RCP
INV 862.80

PROP. RACETRAC
TRAVEL CENTER
±8,100 S.F.
FFE: ±888.50
BLDG. NOT SPRINKLERED

120.29'

69.99'

1.58'

4 PUMP

50' FRONT
BUILDING SETBACK

15' LANDSCAPE STRIP

40' SIDE BUILDING
SETBACK

15' LANDSCAPE STRIP

OLD DUNN COURT
(VARIABLE PUBLIC R/W)

N/F PROPERTY OF COLLINS &
ASSOCIATES, LLC
DEED BOOK 2002 / PAGE 108
ZONED: HI

LL 236
LL 213

PROP. SAWCUT
LINE (TYP.)

ANVIL BLOCK ROAD
(VARIABLE PUBLIC R/W)

EDGE OF ASPHALT

GUARDRAIL

FLUME

30"CURB & GUTTER

CONCRETE SIDEWALK

RIP-RAP

SIGN

TOP 897.68
INV 893.68

PROP. SAWCUT
LINE (TYP.)

OWNER/DEVELOPER
RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY S.E.,
SUITE 900
ATLANTA, GA 30339
TIM WILLIAMS:
(404) 857-6165

40 20 10 0 40
1"= 40'

NO.	BY	DATE
1	NF	10/27/22
	PHASE 2 BID PLANS REVISION	

BOHLER

211 PERIMETER CENTER PKWY NE,
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(404) 857-6165

JOINTING PLAN

4443 OLD DUNN COURT
ELLENWOOD, GA 30294

DRAWN BY	DW / NF
DATE	10/27/2022
SCALE	1"=40'
PROJECT No:	GA204012
C6	1
SHEET NO.	REVISION

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GRADING/DRAINAGE NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES. UTILITIES ARE TO BE REMOVED TO THE RIGHT-OF-WAY.
2. PRECAST STRUCTURES MAY BE USED AT CONTRACTORS OPTION.
3. EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
4. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
5. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
6. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER".
7. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE EPA OR APPLICABLE STATE GENERAL N.P.D.E.S. PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES AND THE SPECIAL CONDITIONS, SECTION 8, ENVIRONMENTAL COMPLIANCE AND STORM WATER POLLUTION PREVENTION.
8. ALL CONCRETE STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR INVERT FROM INVERT IN TO INVERT OUT. HDPE STRUCTURES MAY CONTAIN A SUMP AS ALLOWED BY THE MANUFACTURER
9. CONTRACTOR TO ADJUST ANY EXISTING STRUCTURES TO PROPOSED GRADE IN ANY AREA OF PROPOSED GRADING.
10. "ALL STORMWATER STRUCTURES LOCATED IN THE PUBLIC RIGHT-OF-WAY AND DIRECTLY CONNECTED TO THE PUBLIC RIGHT-OF-WAY MUST BE IN THE GEORGIA DEPARTMENT OF TRANSPORTATION QUALIFIED PRODUCTS LIST"

OWNER/DEVELOPER

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY S.E.,
SUITE 900
ATLANTA, GA 30339
TIM WILLIAMS:
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UTILITY LEGEND

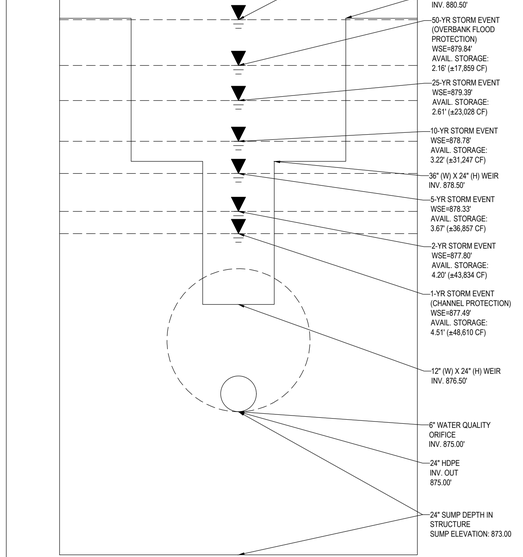
PHASE 1	TYPICAL NOTE TEXT	PHASE 2
STM #	STORM LABEL	STM #
	STORM SEWER	
○	STORM CLEANOUT	○
	STORM MANHOLE	
	STORM INLET	

STORMWATER BMP CHART

BMP ID	BMP TYPE	DIMENSIONS			
		MAXIMUM HEIGHT (FT)	MAXIMUM WIDTH (FT)	MAXIMUM DEPTH (FT)	MAXIMUM SIDE SLOPE (%)
	UNDERGOUND ADS STORMTECH CHAMBERS	N/A (DOES NOT PROTRUDE ABOVE SURFACE)	±216.4' (L) X ±101.8' (W)	7' TOTAL STORAGE DEPTH; 7' MAX BURIED DEPTH	NOT APPLICABLE

OUTLET CONTROL STRUCTURE WEIR WALL DETAIL

LOCATED IN STRUCTURE B-10.1
SCALE: 1"=1'



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1"= 40'

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NO.	REVISION	BY	DATE
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200 GALLERIA PARKWAY SUITE 900
ATLANTA, GA 30339
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DRAINAGE PLAN

4443 OLD DUNN COURT
ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	1"=40'
PROJECT No: GA204012	
C7	1
SHEET NO.	REVISION

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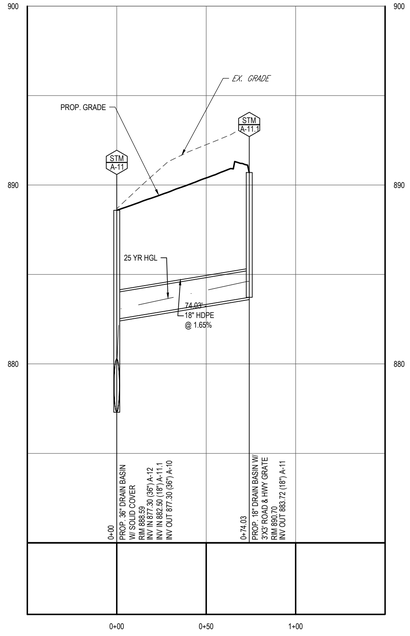
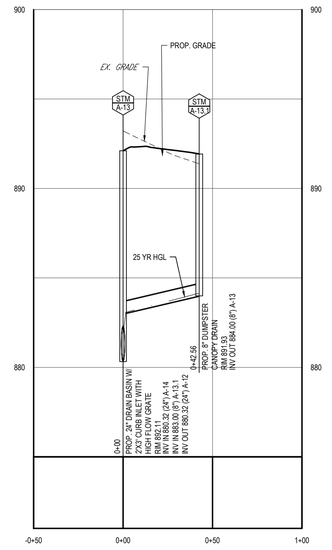


STORM SEWER PROFILE (A-11 TO A-11.1)

SCALE: 1"= 40 ' HORIZONTAL
1"= 4 ' VERTICAL



STORM SEWER PROFILE (A-13 TO A-13.1)

SCALE: 1"= 40 ' HORIZONTAL
1"= 4 ' VERTICAL

STORM SEWER PIPE SCHEDULE

FROM	FROM INV	TO	TO INV	PIPE LENGTH	SLOPE (%)	DIAMETER (IN.)	MATERIAL
A-30	877.90	A-31	878.40	22.99'	2.17%	12"	HDPE
A-30	877.85	A-40	878.45	108.30'	0.56%	24"	HDPE
A-40	878.46	A-50	879.20	124.95'	0.60%	18"	HDPE
A-50	879.20	A-60	879.68	21.44'	2.24%	8"	HDPE
A-60	883.63	A-61	884.12	49.24'	1.00%	8"	HDPE
A-60	879.69	A-70	880.95	60.17'	2.10%	8"	HDPE
A-61	884.12	A-62	884.53	41.18'	1.00%	8"	HDPE
A-70	880.95	A-80	881.31	17.38'	2.10%	8"	HDPE
A-80	881.31	A-90	882.55	58.68'	2.10%	8"	HDPE
A-90	884.45	A-91	884.60	4.11'	3.65%	8"	HDPE
A-90	882.55	A-100	882.75	34.83'	0.60%	8"	HDPE
A-100	882.76	A-110	882.98	22.75'	1.00%	8"	HDPE
A-110	882.98	A-120	883.13	15.02'	1.00%	8"	HDPE
A-110.1	883.03	A-110	882.98	4.11'	1.17%	8"	HDPE
A-120	883.13	A-130	883.23	9.83'	1.00%	8"	HDPE
A-140	883.47	A-130	883.23	24.18'	1.00%	8"	HDPE
B-10	866.50	B-11	868.58	260.34'	0.80%	18"	HDPE
B-10	871.00	B-10.1	875.00	79.73'	5.02%	24"	HDPE
B-10	866.00	B-20	868.27	75.79'	3.00%	42"	HP STORM PP
B-20	868.27	B-30	873.07	239.61'	2.00%	42"	HP STORM PP

STORM SEWER PIPE SCHEDULE

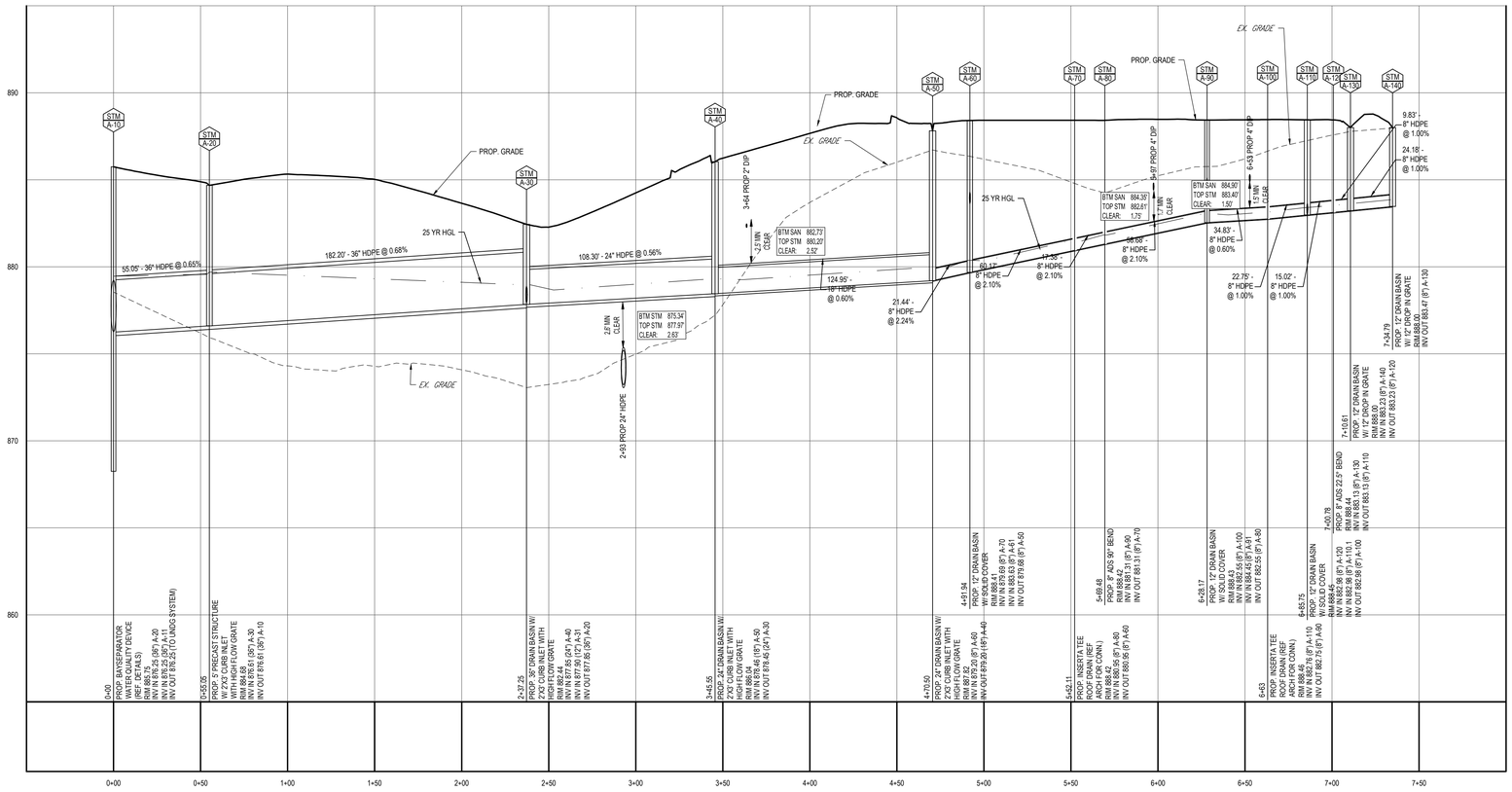
FROM	FROM INV	TO	TO INV	PIPE LENGTH	SLOPE (%)	DIAMETER (IN.)	MATERIAL
B-30	873.53	B-40	878.35	240.85'	2.00%	36"	HDPE
B-40	878.35	B-50	880.45	105.05'	2.00%	36"	HDPE
B-50	880.95	B-60	883.06	211.30'	1.00%	30"	HDPE
B-50	881.00	B-51	882.00	33.58'	2.98%	24"	HDPE
EX-10	890.90	EX-20	891.72	66.94'	1.23%	24"	RCP
EX-20	891.72	EX-30	892.14	33.70'	1.23%	24"	RCP
EX-30	892.14	EX-40	892.61	38.72'	1.23%	24"	RCP
EX-40	892.61	EX-50	892.90	23.40'	1.23%	24"	RCP

STORM SEWER PIPE SCHEDULE

FROM	FROM INV	TO	TO INV	PIPE LENGTH	SLOPE (%)	DIAMETER (IN.)	MATERIAL
INSERTA TEE	877.50	A-10.1	880.91	104.64'	3.26%	6"	HDPE
INSERTA TEE	883.14	A-10.8	883.27	13.40'	1.00%	4"	HDPE
INSERTA TEE	883.34	A-10.7	883.47	13.40'	1.00%	4"	HDPE
INSERTA TEE	883.54	A-10.6	883.67	13.40'	1.00%	4"	HDPE
INSERTA TEE	883.74	A-10.5	883.87	13.40'	1.00%	4"	HDPE
INSERTA TEE	883.94	A-10.4	884.07	13.40'	1.00%	4"	HDPE
A-10	876.25	A-11	877.30	132.97'	0.79%	36"	HDPE
A-10	876.25	A-20	876.61	55.05'	0.65%	36"	HDPE
A-10.1	880.91	A-10.05	882.50	25.00'	6.38%	6"	HDPE
A-10.2	883.00	A-10.3	884.08	105.01'	1.03%	6"	HDPE
A-10.3	884.09	A-10.3.1	884.22	13.40'	1.00%	4"	HDPE
A-10.05	882.50	A-10.2	883.00	25.00'	2.00%	6"	HDPE
A-11	882.50	A-11.1	883.72	74.03'	1.65%	18"	HDPE
A-11	877.30	A-12	877.72	83.28'	0.50%	36"	HDPE
A-12	878.74	A-13	880.32	214.66'	0.74%	24"	HDPE
A-13	883.00	A-13.1	884.00	42.56'	2.35%	8"	HDPE
A-13	880.32	A-14	880.61	56.16'	0.51%	24"	HDPE
A-14	880.61	A-15	881.04	42.41'	1.00%	24"	HDPE
A-15	881.04	A-16	881.58	54.03'	1.00%	24"	HDPE
A-20	876.61	A-30	877.85	182.20'	0.68%	36"	HDPE

STORM STRUCTURE SCHEDULE

NAME	TYPE	RIM ELEV. (FT.)	INVERTS
A-10	PROP. BAYSEPARATOR WATER QUALITY DEVICE (REF. DETAILS)	885.75'	INV IN = 876.25' (36") INV IN = 876.25' (36")
A-10.1	PROP. 15" NYLOPLAST DRAIN BASIN WITH 15" SOLID COVER	888.08'	INV IN = 880.91' (6") INV OUT = 880.91' (6")
A-10.2	PROP. 15" NYLOPLAST DRAIN BASIN WITH 15" SOLID COVER	888.77'	INV IN = 883.00' (6") INV OUT = 883.00' (6")
A-10.3	PROP. 12" DRAIN BASIN	889.40'	INV IN = 884.09' (4") INV OUT = 884.08' (6")
A-10.3.1	PROP. 8" NYLOPLAST DRAIN BASIN WITH 8" DROP IN GRATE	889.29'	INV OUT = 884.22' (4")
A-10.4	PROP. 8" NYLOPLAST DRAIN BASIN WITH 8" DROP IN GRATE	889.15'	INV OUT = 884.07' (4")
A-10.05	PROP. 1,500 GAL OIL/WATER SEPARATOR	888.62'	INV IN = 882.50' (6") INV OUT = 882.50' (6")
A-10.5	PROP. 8" NYLOPLAST DRAIN BASIN WITH 8" DROP IN GRATE	889.02'	INV OUT = 883.87' (4")
A-10.6	PROP. 8" NYLOPLAST DRAIN BASIN WITH 8" DROP IN GRATE	888.89'	INV OUT = 883.67' (4")
A-10.7	PROP. 8" NYLOPLAST DRAIN BASIN WITH 8" DROP IN GRATE	888.75'	INV OUT = 883.47' (4")
A-10.8	PROP. 8" NYLOPLAST DRAIN BASIN WITH 8" DROP IN GRATE	888.62'	INV OUT = 883.27' (4")
A-11	PROP. 36" DRAIN BASIN W/ SOLID COVER	888.59'	INV IN = 877.30' (36") INV IN = 882.50' (18") INV OUT = 877.30' (36")
A-11.1	PROP. 18" DRAIN BASIN W/ 3'X3' ROAD & HWY GRATE	890.70'	INV OUT = 883.72' (18")
A-12	PROP. 36" DRAIN BASIN W/ 3'X3' ROAD & HWY GRATE	888.56'	INV IN = 878.74' (24") INV OUT = 877.72' (36")
A-13	PROP. 24" DRAIN BASIN W/ 2'X3' CURB INLET WITH HIGH FLOW GRATE	892.11'	INV IN = 880.32' (24") INV IN = 883.00' (8") INV OUT = 880.32' (24")
A-13.1	PROP. 8" DUMPSTER CANOPY DRAIN	891.93'	INV OUT = 884.00' (8")
A-14	PROP. 24" DRAIN BASIN W/ 3'X3' ROAD & HWY GRATE	886.20'	INV IN = 880.61' (24") INV OUT = 880.61' (24")
A-15	PROP. 24" DRAIN BASIN W/ 2'X3' CURB INLET WITH HIGH FLOW GRATE	886.55'	INV IN = 881.04' (24") INV OUT = 881.04' (24")
A-16	PROP. 24" DRAIN BASIN W/ 2'X3' CURB INLET WITH HIGH FLOW GRATE	887.32'	INV OUT = 881.58' (24")
A-20	PROP. 5' PRECAST STRUCTURE W/ 2'X3' CURB INLET WITH HIGH FLOW GRATE	884.68'	INV IN = 876.61' (36") INV OUT = 876.61' (36")



STORM SEWER PROFILE (A-10 TO A-140)

SCALE: 1"= 40 ' HORIZONTAL
1"= 4 ' VERTICAL

STORM STRUCTURE SCHEDULE

NAME	TYPE	RIM ELEV. (FT.)	INVERTS
A-30	PROP. 36" DRAIN BASIN W/ 2'X3' CURB INLET WITH HIGH FLOW GRATE	882.44'	INV IN = 877.85' (24") INV IN = 877.90' (12") INV OUT = 877.85' (36")
A-31	PROP. 24" DRAIN BASIN W/ 2'X3' CURB INLET WITH HIGH FLOW GRATE	881.24'	INV OUT = 878.40' (12")
A-40	PROP. 24" DRAIN BASIN W/ 2'X3' CURB INLET WITH HIGH FLOW GRATE	886.04'	INV IN = 878.46' (18") INV OUT = 878.45' (24")
A-50	PROP. 24" DRAIN BASIN W/ 2'X3' CURB INLET WITH HIGH FLOW GRATE	887.82'	INV IN = 879.20' (8") INV OUT = 879.20' (18")
A-60	PROP. 12" DRAIN BASIN W/ SOLID COVER	888.41'	INV IN = 879.69' (8") INV IN = 883.63' (8") INV OUT = 879.68' (8")
A-61	PROP. INSERTA TEE ROOF DRAIN (REF ARCH FOR CONN.)	888.47'	INV IN = 884.12' (8") INV OUT = 884.12' (8")
A-62	PROP. 8" DRAIN BASIN W/ SOLID COVER (REF ARCH FOR ROOF DRAIN CONN.)	888.45'	INV OUT = 884.53' (8")
A-70	PROP. INSERTA TEE ROOF DRAIN (REF ARCH FOR CONN.)	888.42'	INV IN = 880.95' (8") INV OUT = 880.95' (8")
A-80	PROP. 8" ADS 90° BEND	888.42'	INV IN = 881.31' (8") INV OUT = 881.31' (8")
A-90	PROP. 12" DRAIN BASIN W/ SOLID COVER	888.43'	INV IN = 882.55' (8") INV IN = 884.45' (8") INV OUT = 882.55' (8")
A-91	PROP. 12" DRAIN BASIN W/ 12" DROP IN GRATE	888.15'	INV OUT = 884.60' (8")
A-100	PROP. INSERTA TEE ROOF DRAIN (REF ARCH FOR CONN.)	888.46'	INV IN = 882.76' (8") INV OUT = 882.75' (8")
A-110	PROP. 12" DRAIN BASIN W/ SOLID COVER	888.45'	INV IN = 882.98' (8") INV IN = 882.98' (8") INV OUT = 882.98' (8")
A-110.1	PROP. 12" DRAIN BASIN W/ 12" DROP IN GRATE	888.18'	INV OUT = 883.03' (8")
A-120	PROP. 8" ADS 22.5° BEND	888.44'	INV IN = 883.13' (8") INV OUT = 883.13' (8")
A-130	PROP. 12" DRAIN BASIN W/ 12" DROP IN GRATE	888.00'	INV IN = 883.23' (8") INV OUT = 883.23' (8")
A-140	PROP. 12" DRAIN BASIN W/ 12" DROP IN GRATE	888.00'	INV OUT = 883.47' (8")
B-10	PROP. 9' PRECAST OLDCASTLE STM MH WITH TRANSITION TO 4' DIAM. 2' ABOVE 24" INV. IN	881.10'	INV IN = 866.00' (42") INV IN = 871.00' (24") INV IN = 866.50' (18")
B-10.1	PROP. 60" PRECASE MANHOLE (OUTFALL FROM UNDG SYSTEM) (REF OCS DETAIL)	886.01'	INV OUT = 875.00' (24")
B-11	PROP. TYPE C GDOT PRECAST DROP INLET WITH CAST IRON GRATE (REF GDOT DETAIL 1019-AP)	873.10'	INV OUT = 868.58' (18")

STORM STRUCTURE SCHEDULE

NAME	TYPE	RIM ELEV. (FT.)	INVERTS
B-20	PROP. TYPE C GDOT PRECAST DROP INLET WITH CAST IRON GRATE (REF GDOT DETAIL 1019-AP)	881.75'	INV IN = 868.27' (42") INV OUT = 868.27' (42")
B-30	PROP. TYPE C GDOT PRECAST DROP INLET WITH CAST IRON GRATE (REF GDOT DETAIL 1019-AP)	888.00'	INV IN = 873.53' (36") INV OUT = 873.07' (42")
B-40	PROP. TYPE C GDOT PRECAST DROP INLET WITH CAST IRON GRATE (REF GDOT DETAIL 1019-AP)	886.73'	INV IN = 878.35' (36") INV OUT = 878.35' (36")
B-50	PROP. TYPE C GDOT PRECAST DROP INLET WITH CAST IRON GRATE (REF GDOT DETAIL 1019-AP)	887.05'	INV IN = 881.00' (24") INV IN = 880.95' (30") INV OUT = 880.45' (36")
B-51	PROP. PRECAST GDOT CURB INLET (REF GDOT DETAIL 1033-D)	890.08'	INV OUT = 882.00' (24")
B-60	PROP. PRECAST GDOT MH PER GDOT DETAIL 1011-AP	892.83'	INV OUT = 883.06' (30")
EX-10	EX. STM MH	893.15'	INV IN = 890.90' (24")
EX-20	EX. STM MH	896.08'	INV IN = 891.72' (24") INV OUT = 891.72' (24")
EX-30	EX. STM MH	896.95'	INV IN = 892.14' (24") INV OUT = 892.14' (24")
EX-40	EX. STM MH	897.70'	INV IN = 892.61' (24") INV OUT = 892.61' (24")
EX-50	EX. STM MH	895.15'	INV OUT = 892.90' (24")

BOHLER
211 PERIMETER CENTER PKWY NE, SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
GA@BohlerEng.com

NO.	REVISION	BY	DATE
1	PHASE 2 BID PLANS	NF	10/27/22

FOR BIDDING PURPOSES ONLY

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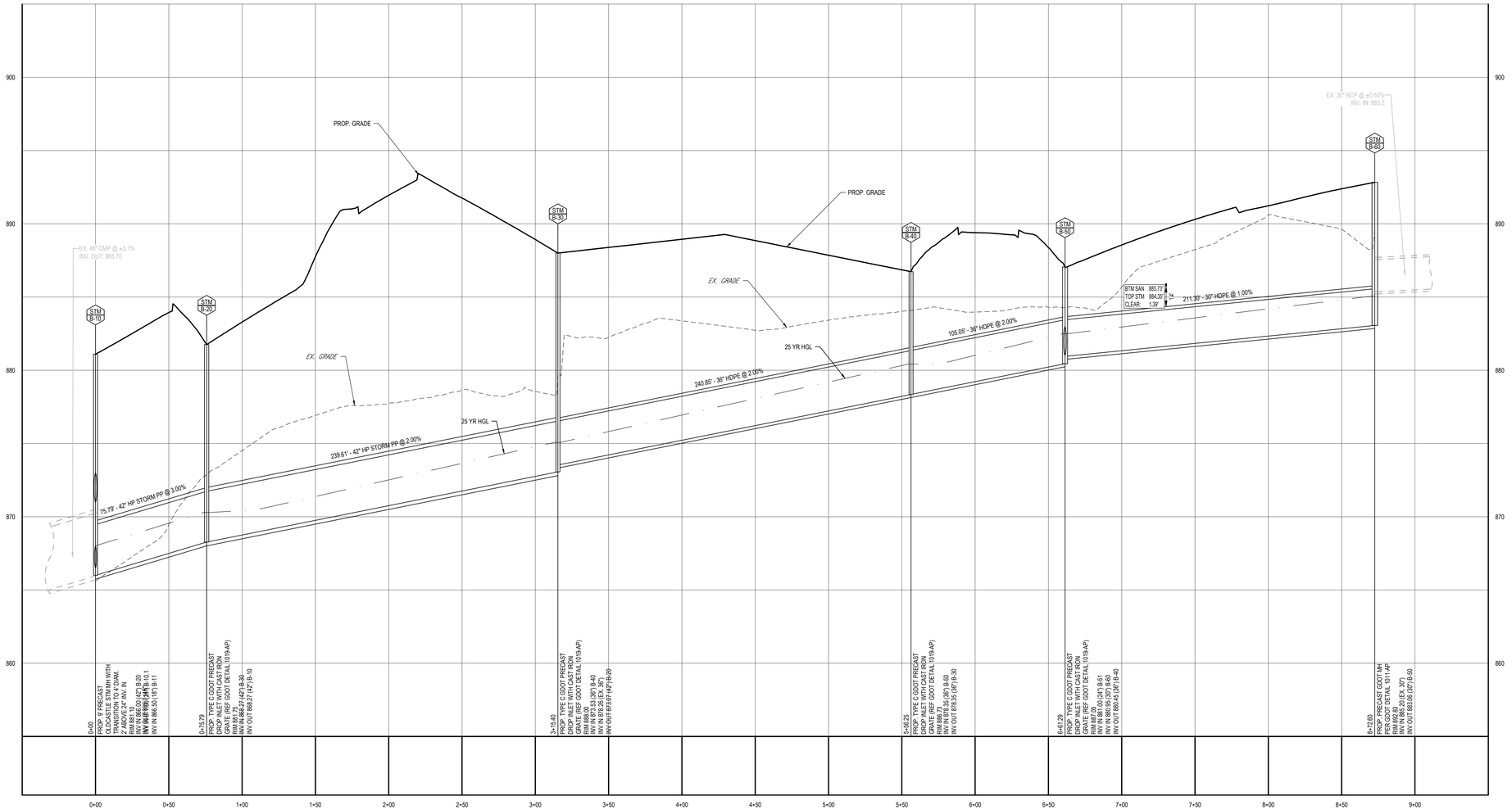
RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY, SUITE 900
ATLANTA, GA 30339
(404) 857-6165

STORM PROFILES
4443 OLD DUNN COURT
ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	NTS
PROJECT No: GA204012	
C7.1	1
SHEET NO.	REVISION



STORM SEWER PROFILE (B-10 TO B-60)

SCALE: 1"= 40 ' HORIZONTAL
1"= 4 " VERTICAL

NO.	REVISION	BY	DATE
1	PHASE 2 BID PLANS	NF	10/27/22

BOHLER
211 PERIMETER CENTER PKWY NE,
SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
GA@BohlerEng.com

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RaceTrac

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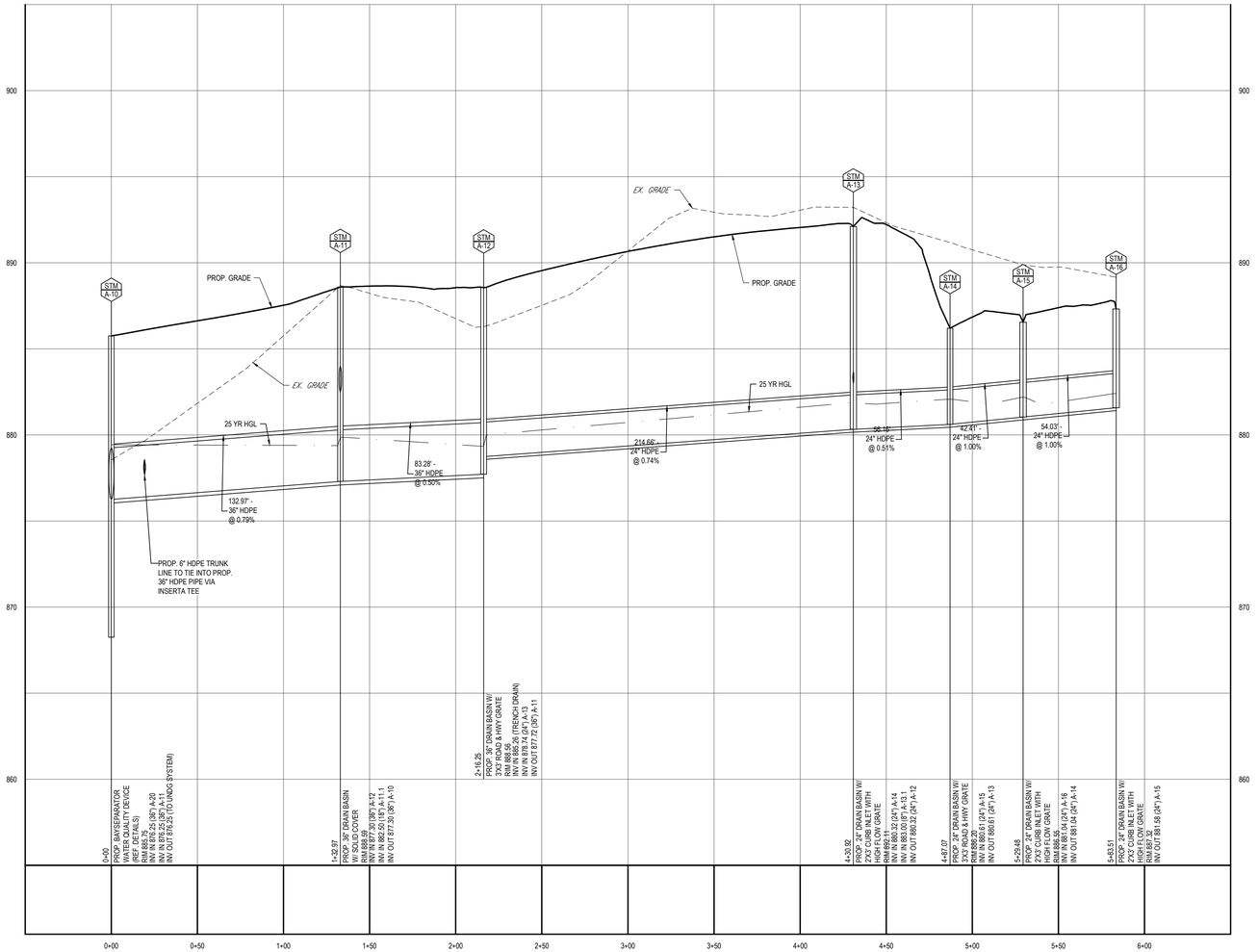
200 GALLERIA PKWY, SUITE 900
ATLANTA, GA 30339
(404) 857-6165

STORM PROFILES

4443 OLD DUNN COURT

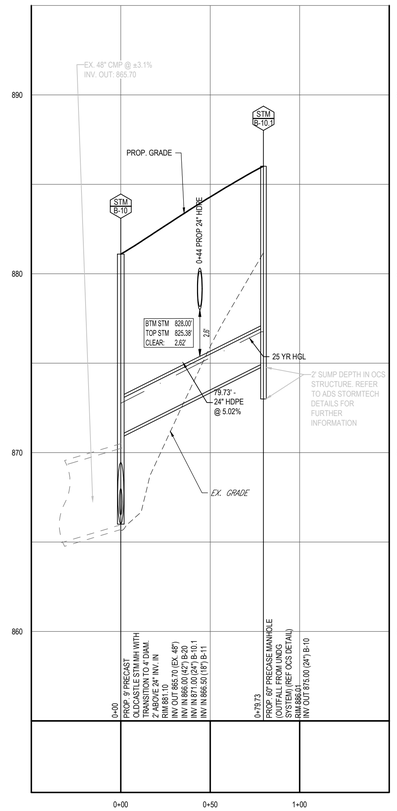
ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	NTS
PROJECT No: GA204012	
C7.2	1
SHEET NO.	REVISION



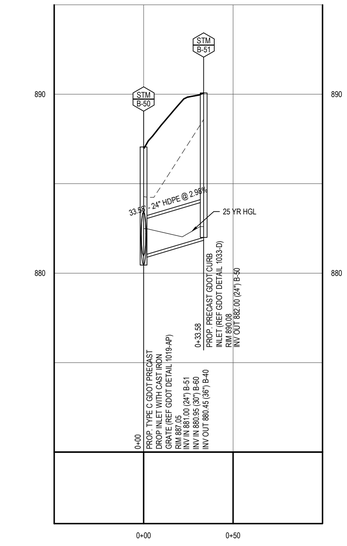
STORM SEWER PROFILE (A-10 TO A-16)

SCALE: 1"= 40 ' HORIZONTAL
1"= 4 ' VERTICAL



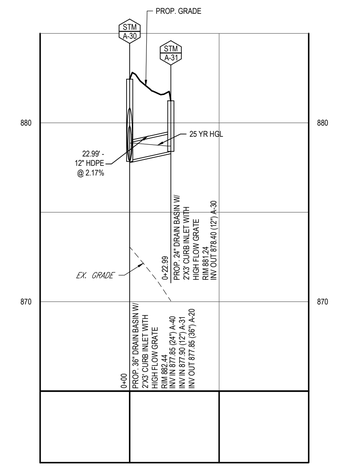
STORM SEWER PROFILE (B-10 TO B-10.1)

SCALE: 1"= 40 ' HORIZONTAL
1"= 4 ' VERTICAL



STORM SEWER PROFILE (B-50 TO B-51)

SCALE: 1"= 40 ' HORIZONTAL
1"= 4 ' VERTICAL



STORM SEWER PROFILE (A-30 TO A-31)

SCALE: 1"= 40 ' HORIZONTAL
1"= 4 ' VERTICAL

NO.	REVISION	BY	DATE
1	PHASE 2 BID PLANS	NF	10/27/22

BOHLER
211 PERIMETER CENTER PKWY NE, SUITE 425
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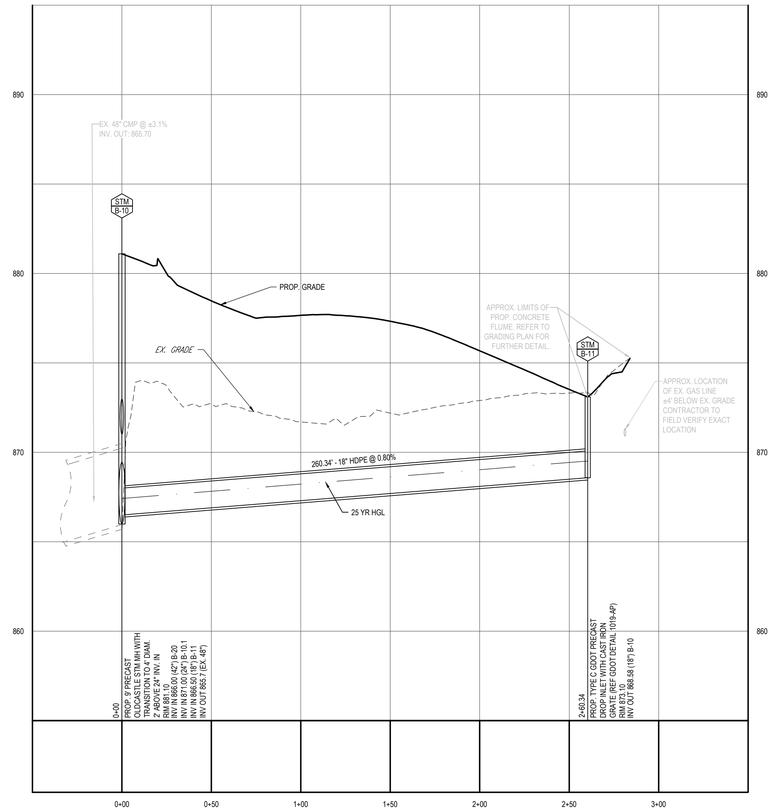
ATLANTA, GA 30339
(404) 857-6165

STORM PROFILES

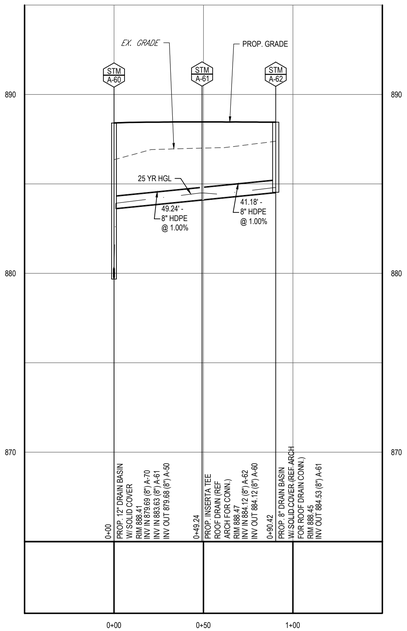
4443 OLD DUNN COURT
ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	NTS
PROJECT No: GA204012	
C7.3	1
SHEET NO.	REVISION



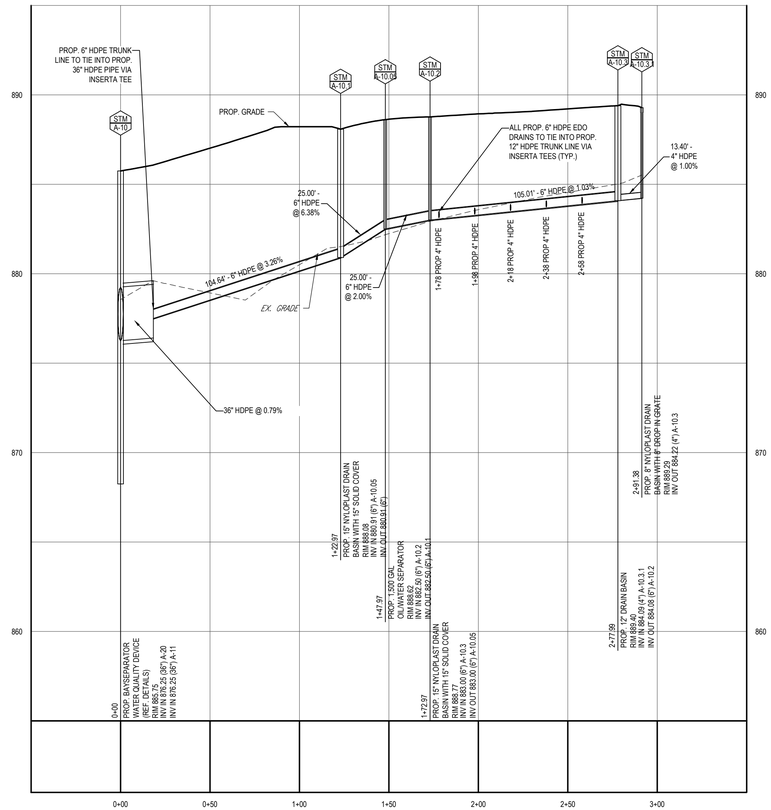
STORM SEWER PROFILE (B-10 TO B-11)

SCALE: 1"= 40 ' HORIZONTAL
1"= 4 ' VERTICAL



STORM SEWER PROFILE (A-60 TO A-62)

SCALE: 1"= 40 ' HORIZONTAL
1"= 4 ' VERTICAL



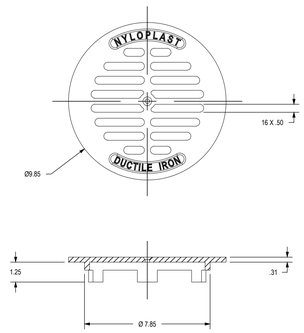
STORM SEWER PROFILE - (A-10 TO A-10.3)

SCALE: 1"= 40 ' HORIZONTAL
1"= 4 ' VERTICAL

NO.	REVISION	BY	DATE

0801DI

APPROX. DRAIN AREA = 19.30 SQ IN
APPROX. WEIGHT = 5.80 LBS



DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
GRATE HAS LIGHT DUTY RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
SIZE OF OPENING MEETS REQUIREMENTS OF AMERICAN DISABILITY ACT AS STATED IN FEDERAL REGISTER PART III, DEPARTMENT OF JUSTICE, 28 CFR PART 36.

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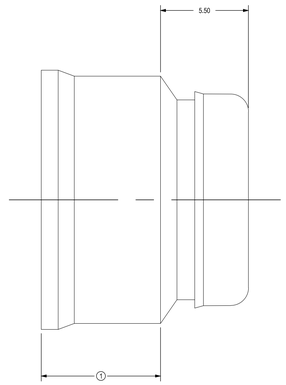
DRAWN BY	AWA	MATERIAL	
DATE	3-5-00		
APP'D BY	JJC	PROJECT NO./NAME	
DATE	8-14-12		
DWG SIZE	A	SCALE 1:4	SHEET 1 OF 1

Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplastusa.com

TITLE: 8 IN DROP IN

DWG NO. 7001-110-019 REV D



1. SEE DRAWING NO. 7001-110-275 FOR ADS N-12 & HANCOR DUAL WALL BELL INFORMATION
2. DIMENSIONS ARE FOR REFERENCE ONLY
   ACTUAL DIMENSIONS MAY VARY
3. DIMENSIONS ARE IN INCHES

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DRAWN BY	EBC	MATERIAL	PVC
DATE	5-11-06		
APP'D BY	CJA	PROJECT NO./NAME	
DATE	5-11-06		
DWG SIZE	A	SCALE 1:4	SHEET 1 OF 1

Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplastusa.com

TITLE: 12 IN ADS N-12 / HANCOR DUAL WALL END CAP

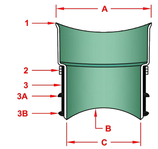
DWG NO. 1232AG REV A

CORRUGATED HDPE/PP BELL GRAVITY APPLICATIONS

A. BELL END ACCEPTS CORRUGATED HDPE/PP DUAL WALL PIPE--ADS/HANCOR INC. SPECIFICATIONS IN 4", 6", 8", 10", 12", 15", 18", 21", 24", AND 30" SIZES.

B. CURVATURE VARIES WITH MAINLINE DIAMETERS.

C. SPIGOT END PVC SDR 35, ASTM D3034 DIAMETERS: 4", 6", 8", 10", 12", 15", 18", 21", 24" AND 30"



PART	PART NAME
1	HUB ADAPTOR
2	SECURING CLAMP*
3	RUBBER SLEEVE (AVAILABLE IN NITRILE AND EPDM BY SPECIAL ORDER)
3A	UPPER SEGMENT**
3B	LOWER SEGMENT***
4	(NOT SHOWN) ADS/HANCOR INC. SUPPLIES VALLEY GASKET

MATERIALS
PVC SDR 26 ASTM D3034
BAND SS #301
SCREW SS #305
HOUSING SS #301
ASTM F477

* OPTIONAL: #316 STAINLESS STEEL BAND, SCREW AND HOUSING
** DISTANCE BETWEEN 4A AND 4B WILL VARY BY PRODUCT TYPE
*** WILL NOT APPEAR ON RUBBER SLEEVES FOR CONCRETE OR CLAY PIPE

INSERTA TEE SIZE		HOLE DIAMETER	
4"	(100 mm)	4 ½"	(114 mm)
6"	(150 mm)	6 ½"	(165 mm)
8"	(200 mm)	8 ¾"	(222 mm)
10"	(250 mm)	10 ⅞"	(276 mm)
12"	(300 mm)	12 ⅞"	(327 mm)
15"	(375 mm)	15 $^{13}/_{16}$"	(402 mm)
18"	(450 mm)	19 $^{3}/_{16}$"	(503 mm)
21"	(525 mm)	22 $^{9}/_{16}$"	(573 mm)
24"	(600 mm)	25 $^{5}/_{16}$"	(643 mm)
30"	(750 mm)	32 $^{1}/_{32}$"	(826 mm)

NOTE: RECOMMENDED METHOD OF CUTTING HOLE IS WITH HOLE SAW FOR PVC AND OTHER PLASTICS, AND DIAMOND BIT FOR CONCRETES, CLAY, FRP AND D.I. (SEE INSTALLATION INSTRUCTIONS. HOLE SAWS ARE AVAILABLE FOR PURCHASE OR RENT.)

INSERTA TEE

INSERTA TEE | PO BOX 714 CORNELIUS, OR 97116 PH:(503) 357-2110 FAX:(503) 359-5417 SALES@INSERTATEE.COM

CORRUGATED HDPE/PP BELL GRAVITY APPLICATION SPECIFICATIONS

SCALE: NTS
DATE: 9/12/2013
DRAWN BY: KLJ

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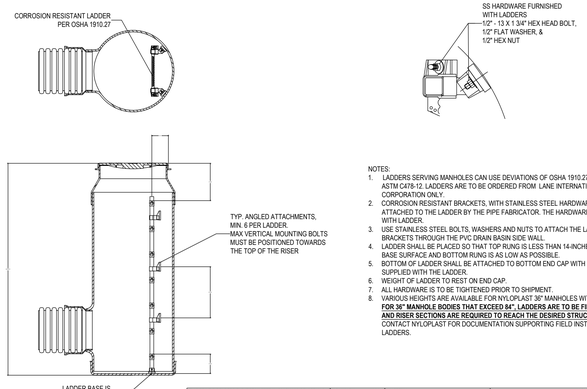
NYLOPLAST 36" STRUCTURE WITH LADDER DETAIL



NOTES:
1. LADDERS SERVING MANHOLES CAN USE DEVIATIONS OF OSHA 1910.27 FOUND IN ASTM C478-12. LADDERS ARE TO BE ORDERED FROM LANE INTERNATIONAL CORPORATION ONLY.
2. CORROSION RESISTANT BRACKETS, WITH STAINLESS STEEL HARDWARE, SHALL BE ATTACHED TO THE LADDER BY THE PIPE FABRICATOR. THE HARDWARE IS INCLUDED WITH LADDER.
3. USE STAINLESS STEEL BOLTS, WASHERS AND NUTS TO ATTACH THE LADDER BRACKETS THROUGH THE PVC DRAIN BASIN SIDE WALL.
4. LADDER SHALL BE PLACED SO THAT TOP RUNG IS LESS THAN 14-INCHES FROM BASE SURFACE AND BOTTOM RUNG IS AS LOW AS POSSIBLE.
5. BOTTOM OF LADDER SHALL BE ATTACHED TO BOTTOM END CAP WITH SS HARDWARE SUPPLIED WITH THE LADDER.
6. WEIGHT OF LADDER TO REST ON END CAP.
7. ALL HARDWARE IS TO BE TIGHTENED PRIOR TO SHIPMENT.
8. VARIOUS HEIGHTS ARE AVAILABLE FOR NYLOPLAST 36" MANHOLES WITH LADDERS. **FOR 36" MANHOLE BODIES THAT EXCEED 84", LADDERS ARE TO BE FIELD INSTALLED AND RISER SECTIONS ARE REQUIRED TO REACH THE DESIRED STRUCTURE HEIGHT.** CONTACT NYLOPLAST FOR DOCUMENTATION SUPPORTING FIELD INSTALLATION OF LADDERS.

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DRAWN BY	NMH	MATERIAL	
DATE	3-16-18		
APP'D BY	NMH	PROJECT NO./NAME	
DATE	3-16-18		
DWG SIZE	A	SCALE NTS	SHEET 1 OF 1

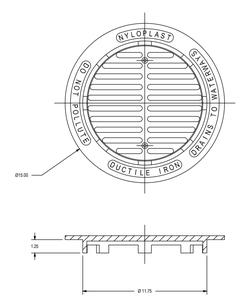
Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplastusa.com

TITLE: NYLOPLAST 36" STRUCTURE WITH LADDER DETAIL

DWG NO. 7001-110-539 REV A

1201DI

APPROX. DRAIN AREA = 39.75 SQ IN
APPROX. WEIGHT = 15 LBS



DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
GRATE MEETS H-20 LOAD RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7002-110-058
SLOPE OF GRATE SURFACE IS 5.2%
CURB INLET FRAME INSIDE VOLUME IS APPROX 2.73 CU FT
APPROX. DRAIN AREA OF GRATE & HOOD
LOWEST SETTING = 463.92 SQ IN
LOWEST + 1" SETTING = 496.79 SQ IN
LOWEST + 2" SETTING = 529.67 SQ IN
LOWEST + 3" SETTING = 562.54 SQ IN
HIGHEST SETTING = 595.42 SQ IN

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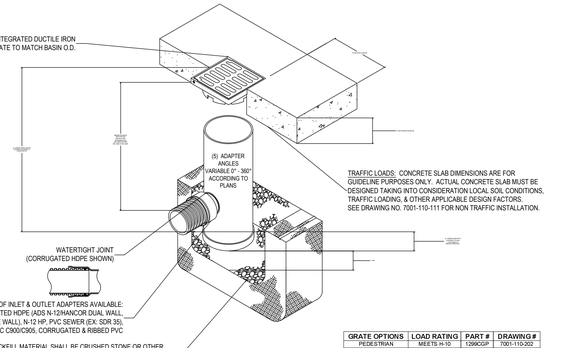
DRAWN BY	AWA	MATERIAL	
DATE	3-5-00		
REVISED BY	EBC	PROJECT NO./NAME	
DATE	6-13-11		
DWG SIZE	A	SCALE NTS	SHEET 1 OF 1

Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplastusa.com

TITLE: 12 IN DROP IN

DWG NO. 7001-110-421 REV D

NYLOPLAST 12" DRAIN BASIN: 2812AG _ _ X



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	1299CGP	7001-110-202
STANDARD	MEETS H-20	1299CGS	7001-110-203
SOLID COVER	MEETS H-20	1299CGC	7001-110-204
PEDESTRIAN BRONZE	N/A	1299CGPB	7001-110-205
DOME	N/A	1299CGD	7001-110-206
DROP IN GRATE	LIGHT DUTY	1251DI	7001-110-201

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP & PVC SEWER.
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

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DRAWN BY	EBC	MATERIAL	
DATE	03-26-06		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-11-16		
DWG SIZE	A	SCALE NTS	SHEET 1 OF 1

Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplastusa.com

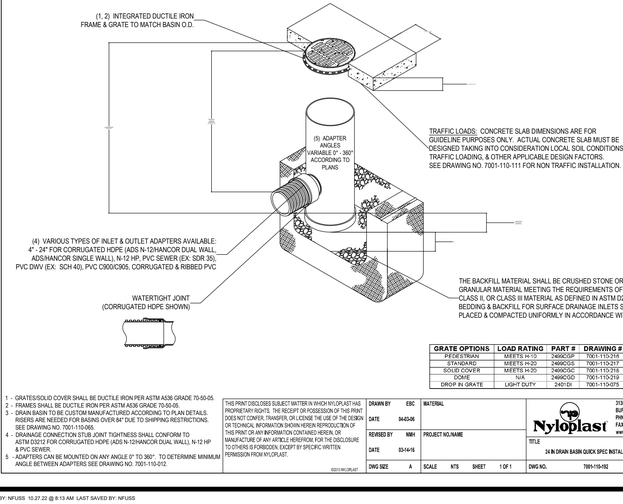
TITLE: 12 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL

DWG NO. 7001-110-189 REV E

CLAYTON COUNTY PIPE BEDDING NOTE:

1. DRAINAGE PIPES AND CULVERTS SHALL BE BACKFILLED WITH MATERIALS THAT MEET THE GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATION FOR ROADWAY MATERIALS, SECTION 810, ROADWAY MATERIALS, CLASS I OR CLASS II SOILS. BACKFILLS WILL BE CONSTRUCTED IN SIX TO TWELVE INCH VERTICAL LAYERS AND THOROUGHLY COMPACTED. THE COMPACTED DRY WEIGHT PER CUBIC FOOT FOR EACH LAYER OF BACKFILL WILL BE AT LEAST NINETY-FIVE (95%) PERCENT OF THE MAXIMUM LABORATORY DRY WEIGHT PER CUBIC FOOT.

NYLOPLAST 24" DRAIN BASIN: 2824AG _ _X



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	2496CGP	7001-110-216
STANDARD	MEETS H-20	2496CGS	7001-110-217
SOLID COVER	MEETS H-20	2496CGC	7001-110-218
DOME	N/A	2496CGD	7001-110-219
DROP IN GRATE	LIGHT DUTY	2451DI	7001-110-075

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP & PVC SEWER.
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

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DRAWN BY	EBC	MATERIAL	
DATE	04-03-06		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-14-16		
DWG SIZE	A	SCALE NTS	SHEET 1 OF 1

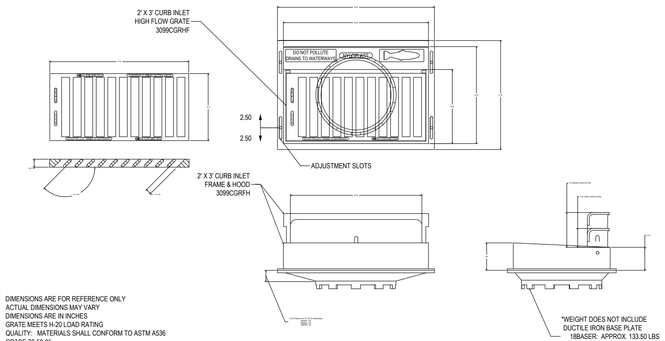
Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplastusa.com

TITLE: 24 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL

DWG NO. 7001-110-552 REV E

3099CGRHF & 3099CGRFH

APPROX. GRATE DRAIN AREA = 327.25 SQ IN
*APPROX. WEIGHT WITH FRAME & HOOD = 354.50 LBS



DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
GRATE MEETS H-20 LOAD RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7002-110-058

*WEIGHT DOES NOT INCLUDE DUCTILE IRON BASE PLATE
18BASER: APPROX. 133.50 LBS
24BASER: APPROX. 122.00 LBS
30BASER: APPROX. 92.50 LBS

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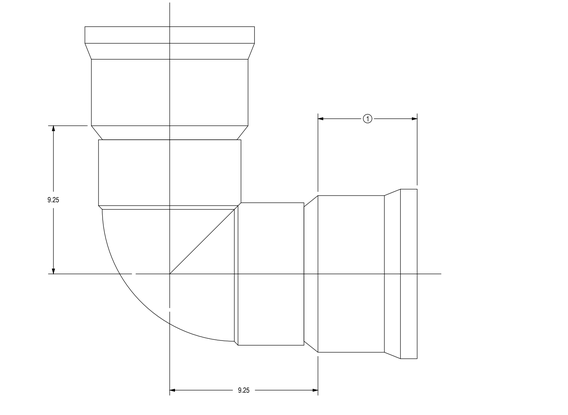
DRAWN BY	EBC	MATERIAL	DUCTILE IRON
DATE	04-10-06		
REVISED BY	CCA	PROJECT NO./NAME	
DATE	09-05-13		
DWG SIZE	A	SCALE NTS	SHEET 1 OF 1

Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplastusa.com

TITLE: 2 FT X 3 FT CURB INLET HIGH FLOW GRATE ASSEMBLY

DWG NO. 7002-110-047 REV D

NYLOPLAST 12" DRAIN BASIN: 2812AG _ _ X



1. SEE DRAWING NO. 7001-110-275 FOR ADS N-12 & HANCOR DUAL WALL BELL INFORMATION
2. DIMENSIONS ARE FOR REFERENCE ONLY
   ACTUAL DIMENSIONS MAY VARY
3. DIMENSIONS ARE IN INCHES

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DRAWN BY	EBC	MATERIAL	PVC
DATE	5-16-06		
APP'D BY	CJA	PROJECT NO./NAME	
DATE	5-16-06		
DWG SIZE	A	SCALE: NTS	SHEET 1 OF 1

Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplastusa.com

TITLE: 8 IN ADS N-12 / HANCOR DUAL WALL ELBOW - 90 DEGREE

DWG NO. 0806AG REV A

NO.	DATE	BY
1	10/27/22	NF

REVISION: PHASE 2 BID PLANS

BOHLER

211 PERIMETER CENTER PKWY NE, SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
GA@BohlerEng.com

FOR BIDDING PURPOSES ONLY

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RaceTrac

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY, SUITE 900
ATLANTA, GA 30339
(404) 857-6165

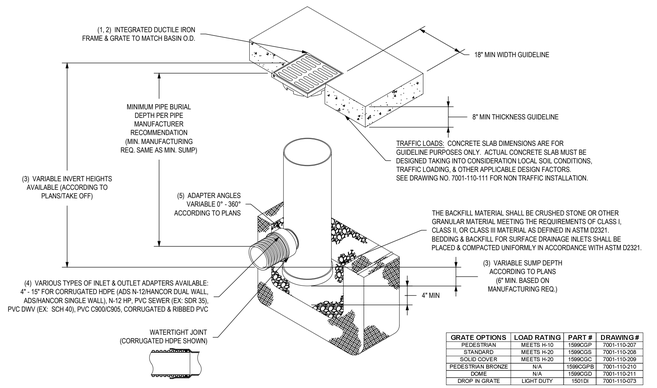
DRAINAGE DETAILS

4443 OLD DUNN COURT
ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	NTS
PROJECT No: GA204012	
C7.5	1
SHEET NO.	REVISION

H:\2020\GA204012\DRAWINGS\PLAN SETS\PHASE 2 BID PLANS\GA204012-SDP-0.DWG PRINTED BY: NFUSS 10.27.22 @ 8:13 AM LAST SAVED BY: NFUSS

NYLOPLAST 15" DRAIN BASIN: 2815AG _ _ X



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	1599CGP	7001-110-207
STANDARD	MEETS H-20	1599CGS	7001-110-208
SOLID COVER	MEETS H-20	1599CGC	7001-110-209
PEDESTRIAN BRONZE	N/A	1599CGPB	7001-110-210
DOME	N/A	1599CGD	7001-110-211
DROP IN GRATE	LIGHT DUTY	1501DI	7001-110-073

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-085
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

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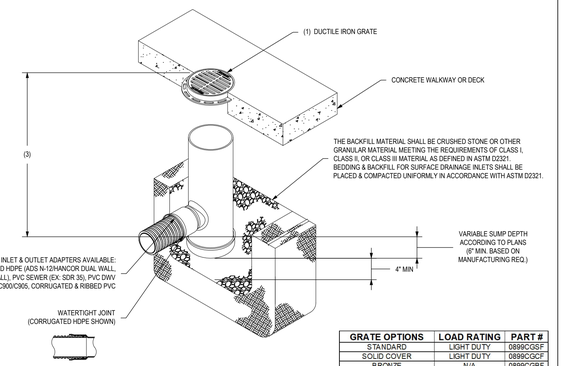
DRAWN BY	EBC	MATERIAL
DATE	03-30-06	
REVISED BY	NMH	PROJECT NO./NAME
DATE	03-14-16	
DWG SIZE	A	SCALE 1:25 SHEET 1 OF 1

Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com

TITLE: 15 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL

DWG NO. 7001-110-190 REV E

NYLOPLAST 8" DRAIN BASIN: 2808AG _ _ X



GRATE OPTIONS	LOAD RATING	PART #
STANDARD	LIGHT DUTY	0899CGSF
SOLID COVER	LIGHT DUTY	0899CGCF
BRONZE	N/A	0899CGBF
DOME	N/A	0899CGDF
DROP IN GRATE	LIGHT DUTY	0801DI

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2 - CUSTOM DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-085.
3 - STANDARD DRAIN BASIN HAS FIXED ADAPTER LOCATIONS OF 0° & 180°. CUSTOM DRAIN BASIN ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL) & PVC SEWER (4" - 24").

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DRAWN BY	NMH	MATERIAL
DATE	6-25-18	
APP'D BY	NMH	PROJECT NO./NAME
DATE	6-25-18	
DWG SIZE	A	SCALE 1:12 SHEET 1 OF 1

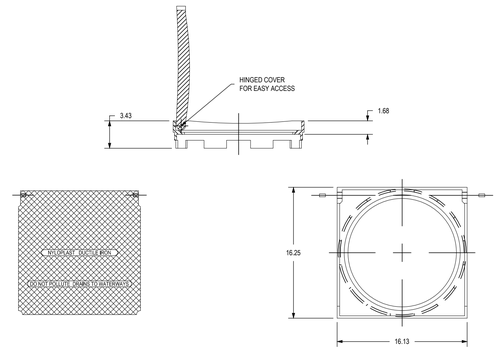
Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com

TITLE: 8 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL

DWG NO. 7001-110-272 REV F

1599CGC

APPROX. WEIGHT WITH FRAME = 59.00 LBS



DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
GRATE MEETS H-20 LOAD RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7001-110-030

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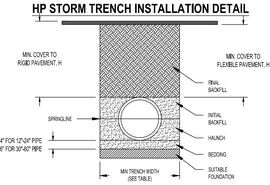
DRAWN BY	EBC	MATERIAL
DATE	3-7-06	DUCTILE IRON
REVISED BY	EBC	PROJECT NO./NAME
DATE	3-16-10	
DWG SIZE	A	SCALE 1:8 SHEET 1 OF 1

Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com

TITLE: 15 IN SOLID COVER ASSEMBLY

DWG NO. 7001-110-209 REV C

HP STORM TRENCH INSTALLATION DETAIL



NOTES:

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION, WITH THE EXCEPTION THAT THE INITIAL BACKFILL MAY EXTEND TO THE CROWN OF THE PIPE. SOIL CLASSIFICATIONS ARE PER THE LATEST VERSION OF ASTM D2321. CLASS IVB MATERIALS (MH, CH) AS DEFINED IN PREVIOUS VERSIONS OF ASTM D2321 ARE NOT APPROPRIATE BACKFILL MATERIALS.
2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II, III, OR IV. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. COMPACTION SHALL BE SPECIFIED BY THE ENGINEER IN ACCORDANCE WITH TABLE 3 FOR THE APPLICABLE FILL HEIGHTS LISTED. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 12"-24" (300mm-600mm) DIAMETER PIPE, 6" (150mm) FOR 30"-60" (750mm-1500mm) DIAMETER PIPE. THE MIDDLE 1/3 BENEATH THE PIPE INVERT SHALL BE LOOSELY PLACED. PLEASE NOTE, CLASS IV MATERIAL HAS LIMITED APPLICATION AND CAN BE DIFFICULT TO PLACE AND COMPACT; USE ONLY WITH THE APPROVAL OF A SOIL EXPERT.
5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II, III, OR IV IN THE PIPE ZONE EXTENDING TO THE CROWN OF THE PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION. COMPACTION SHALL BE SPECIFIED BY THE ENGINEER IN ACCORDANCE WITH TABLE 3 FOR THE APPLICABLE FILL HEIGHTS LISTED. PLEASE NOTE, CLASS IV MATERIAL HAS LIMITED APPLICATION AND CAN BE DIFFICULT TO PLACE AND COMPACT; USE ONLY WITH THE APPROVAL OF A SOIL EXPERT.
6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" (300mm) FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" (300mm) UP TO 48" (1200mm) DIAMETER PIPE AND 24" (600mm) OF COVER FOR 60" (1500mm) DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.
7. FOR ADDITIONAL INFORMATION SEE TECHNICAL NOTE 2.04.

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TABLE 1, RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
12" (300mm)	30" (762mm)
15" (375mm)	30" (864mm)
18" (450mm)	30" (991mm)
24" (600mm)	48" (1219mm)
30" (750mm)	60" (1422mm)
36" (900mm)	64" (1626mm)
42" (1050mm)	72" (1829mm)
48" (1200mm)	80" (2032mm)
60" (1500mm)	96" (2438mm)

TABLE 2, MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS

PIPE DIAM.	SURFACE LIVE LOADING CONDITION		
	H-25	HEAVY CONSTRUCTION (15T AXLE LOAD) *	
12" - 48" (300mm - 1200mm)	12" (300mm)	48" (1219mm)	
60" (1500mm)	24" (610mm)	60" (1524mm)	

* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

TABLE 3, MAXIMUM COVER FOR ADS HP STORM PIPE, ft

	CLASS I		CLASS II		CLASS IV	
PIPE DIA	COMPACTED	95%	90%	85%	90%	95%
12" (300mm)	41 (12.5m)	28 (8.5m)	21 (6.4m)	16 (4.9m)	20 (6.1m)	16 (4.9m)
15" (375mm)	42 (12.8m)	29 (8.8m)	21 (6.4m)	16 (4.9m)	21 (6.4m)	16 (4.9m)
18" (450mm)	44 (13.4m)	30 (9.1m)	21 (6.4m)	16 (4.9m)	22 (6.7m)	17 (5.2m)
24" (600mm)	37 (11.3m)	26 (7.9m)	18 (5.5m)	14 (4.3m)	19 (5.8m)	14 (4.3m)
30" (750mm)	39 (11.9m)	27 (8.2m)	19 (5.8m)	14 (4.3m)	19 (5.8m)	15 (4.6m)
36" (900mm)	28 (8.5m)	20 (6.1m)	14 (4.3m)	10 (3.0m)	14 (4.3m)	11 (3.4m)
42" (1050mm)	30 (9.1m)	21 (6.4m)	14 (4.3m)	10 (3.0m)	15 (4.6m)	11 (3.4m)
48" (1200mm)	29 (8.8m)	20 (6.1m)	13 (4.0m)	9 (2.7m)	14 (4.3m)	10 (3.0m)
60" (1500mm)	29 (8.8m)	20 (6.1m)	13 (4.0m)	9 (2.7m)	14 (4.3m)	10 (3.0m)

FILL HEIGHT TABLE GENERATED USING AASHTO SECTION 12, LOAD RESISTANCE FACTOR DESIGN (LRFD) PROCEDURE WITH THE FOLLOWING ASSUMPTIONS:
NO HYDROSTATIC PRESSURE
UNIT WEIGHT OF SOIL (γs) = 120 PCF

#	REV. MAXIMUM COVER HEIGHTS	RWD	01/11/17	
REL	DESCRIPTION	BY	MM/DD/YY	CHK'D

TRENCH INSTALLATION DETAIL (HP STORM)

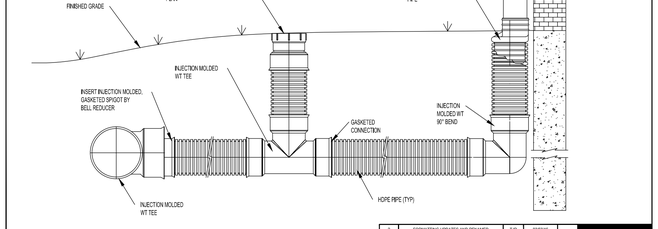
DRAWING NUMBER STD-101D

ADVANCED DRAINAGE SYSTEMS, INC.

ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT. NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

DRAWN	JAB
DATE	01/29/09
SCALE	NTS
SHEET	1 OF 1

ADS, 4640 TRUEMAN BLVD, HILLIARD, OHIO 43026



2	FORMATTING UPDATES AND RENAMED	TJR	03/07/16	
REL	DESCRIPTION	BY	MM/DD/YY	CHK'D

ROOF DRAIN (TEE CLEANOUT)

DRAWING NUMBER STD-1002

ADVANCED DRAINAGE SYSTEMS, INC.

DRAWN TJR, CHK'D ADS, DATE 03/16/04, SCALE NTS, SHEET 1 OF 1

DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
GRATE MEETS H-20 LOAD RATING
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7001-110-026

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DRAWN BY	EBC	MATERIAL
DATE	3-8-06	DUCTILE IRON
REVISED BY	EBC	PROJECT NO./NAME
DATE	3-13-18	
DWG SIZE	A	SCALE NTS SHEET 1 OF 1

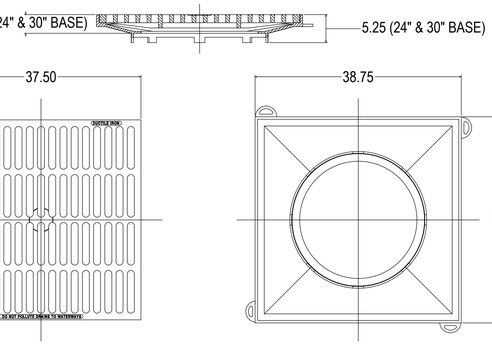
Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com

TITLE: 30 IN SOLID COVER ASSEMBLY - TYPE S

DWG NO. 7001-110-222 REV C

3 FT X 3 FT ROAD & HIGHWAY FRAME AND GRATE

APPROX. DRAIN AREA = 688.66 SQ IN



DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
GRATE MEETS H-20 LOAD RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT

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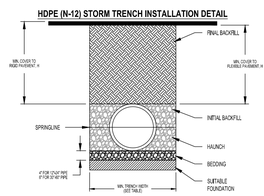
DRAWN BY	NMH	MATERIAL
DATE	9-25-18	DUCTILE IRON
APP'D BY	NMH	PROJECT NO./NAME
DATE	9-25-18	
DWG SIZE	A	SCALE NTS SHEET 1 OF 1

Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com

TITLE: 36" DRAIN BASIN QUICK SPEC INSTALLATION DETAIL

DWG NO. 7001-110-526 REV A

HDPE (N-12) STORM TRENCH INSTALLATION DETAIL



NOTES:

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION
2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-1500mm).
5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING TO THE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT. FOR TRAFFIC APPLICATIONS WITH LESS THAN FOUR FEET OF COVER, EMBEDMENT OF THE PIPE SHALL BE USING ONLY A CLASS I OR CLASS II BACKFILL.

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RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
4" (100mm)	21" (533mm)
6" (150mm)	22" (564mm)
8" (200mm)	26" (660mm)
10" (250mm)	28" (711mm)
12" (300mm)	30" (762mm)
15" (375mm)	34" (864mm)
18" (450mm)	39" (991mm)
24" (600mm)	48" (1219mm)
30" (750mm)	56" (1422mm)
36" (900mm)	64" (1626mm)
42" (1050mm)	72" (1829mm)
48" (1200mm)	80" (2032mm)
60" (1500mm)	96" (2438mm)

MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS**

PIPE DIAM.	SURFACE LIVE LOADING CONDITION	
	H-25	HEAVY CONSTRUCTION (15T AXLE LOAD) *
12" - 48" (300mm - 1200mm)	12" (300mm)	48" (1219mm)
60" (1500mm)	24" (610mm)	60" (1524mm)

* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER
**SEE BACKFILL REQUIREMENTS IN NOTE 6.

MAXIMUM RECOMMENDED COVER BASED ON VECHICLE LOADING CONDITIONS

PIPE DIAM.	CLASS I		CLASS II		CLASS III
	COMPACTED	DUMPED	95%	90%	95%
4" (100mm)	47 (13.2m)	18 (5.5m)	25 (7.6m)	18 (5.5m)	19 (5.5m)
6" (150mm)	44 (13.4m)	20 (6.1m)	29 (8.8m)	20 (6.1m)	21 (6.4m)
8" (200mm)	32 (9.8m)	15 (4.6m)	22 (6.7m)	15 (4.6m)	16 (4.9m)
10" (250mm)	26 (11.6m)	18 (5.5m)	26 (7.9m)	18 (5.5m)	19 (5.5m)
12" (300mm)	23 (10.7m)	17 (5.2m)	24 (7.3m)	17 (5.2m)	17 (5.2m)
15" (375mm)	26 (11.6m)	17 (5.2m)	25 (7.6m)	17 (5.2m)	18 (5.5m)
18" (450mm)	36 (11.2m)	17 (5.2m)	24 (7.3m)	17 (5.2m)	17 (5.2m)
24" (600mm)	28 (8.5m)	13 (4.0m)	20 (6.1m)	13 (4.0m)	14 (4.3m)
30" (750mm)	28 (8.5m)	13 (4.0m)	20 (6.1m)	13 (4.0m)	14 (4.3m)
36" (900mm)	26 (7.9m)	12 (3.7m)	18 (5.5m)	13 (4.0m)	13 (4.0m)
42" (1050mm)	23 (7.0m)	11 (3.4m)	16 (4.9m)	11 (3.4m)	11 (3.4m)
48" (1200mm)	25 (7.6m)	11 (3.4m)	17 (5.2m)	11 (3.4m)	12 (3.7m)
60" (1500mm)	25 (7.6m)	11 (3.4m)	17 (5.2m)	11 (3.4m)	12 (3.7m)

FILL HEIGHT TABLE GENERATED USING AASHTO SECTION 12, LOAD RESISTANCE FACTOR DESIGN (LRFD) PROCEDURE WITH THE FOLLOWING ASSUMPTIONS:
NO HYDROSTATIC PRESSURE,
UNIT WEIGHT OF SOIL (γs) = 120 PCF

1	INITIAL BACKFILL	JAB	04/02/20	
REL	DESCRIPTION	BY	MM/DD/YY	CHK'D

TRENCH INSTALLATION DETAIL (N-12 PER AASHTO)

DRAWING NUMBER STD-101

ADVANCED DRAINAGE SYSTEMS, INC.

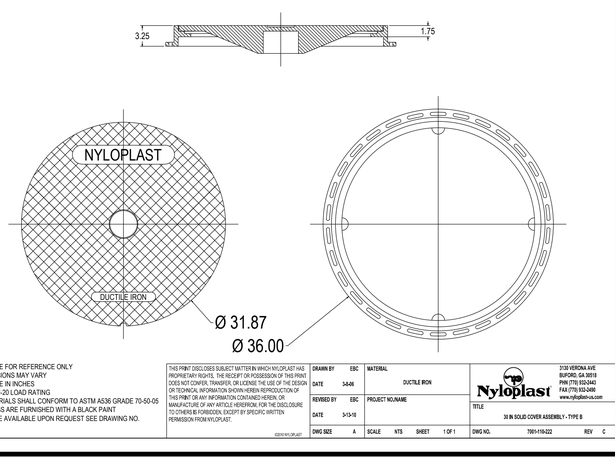
ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT, NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

DRAWN	TJR
DATE	12/29/16
SCALE	NTS
SHEET	1 OF 1

ADS, 4640 TRUEMAN BLVD, HILLIARD, OHIO 43026

3099CGC

APPROX. WEIGHT WITH FRAME = 262.50 LBS



DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
GRATE MEETS H-20 LOAD RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7001-110-030

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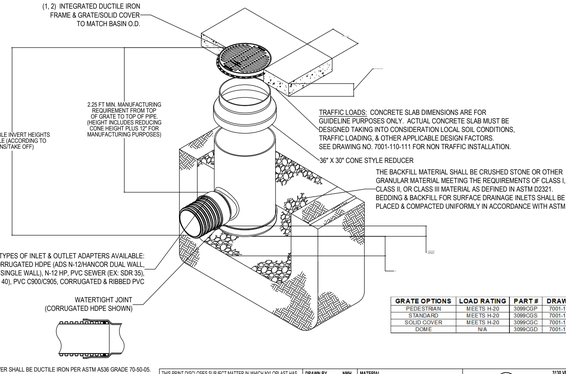
DRAWN BY	EBC	MATERIAL
DATE	3-7-06	DUCTILE IRON
REVISED BY	EBC	PROJECT NO./NAME
DATE	3-16-10	
DWG SIZE	A	SCALE 1:8 SHEET 1 OF 1

Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com

TITLE: 15 IN SOLID COVER ASSEMBLY

DWG NO. 7001-110-209 REV C

NYLOPLAST 36" DRAIN BASIN: 2836AG _ _X


(1, 2) INTEGRATED DUCTILE IRON FRAME & GRATE/SOLID

PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER:	ED PISOWICZ 404-633-7452 EDWARD.PISOWICZ@ADS-PIPE.COM
ADS SALES REP:	PAUL RIOOT 678-8585-3360 PAUL.RIOOT@ADS-PIPE.COM
PROJECT NO:	52024412

ADVANCED DRAINAGE SYSTEMS, INC.

SiteASSIST by StormTech
FOR STORMTECH INSTRUCTIONS, DOWNLOAD THE INSTALLATION APP

RACE TRAC-ELLENWOOD

ELLENWOOD, GA

MC-4500 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH MC-4500.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 60x101.
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 5.5 in.
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-4500 CHAMBER SYSTEM

1. STORMTECH MC-4500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH MC-4500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 9" (230 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
8. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
9. STONE SHALL BE BROUGHT UP EVENLY AROUND CHAMBERS SO AS NOT TO DISTORT THE CHAMBER SHAPE. STONE DEPTHS SHOULD NEVER DIFFER BY MORE THAN 12" (300 mm) BETWEEN ADJACENT CHAMBER ROWS.
10. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
11. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIAL BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
12. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH MC-4500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
2. THE USE OF EQUIPMENT OVER MC-4500 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

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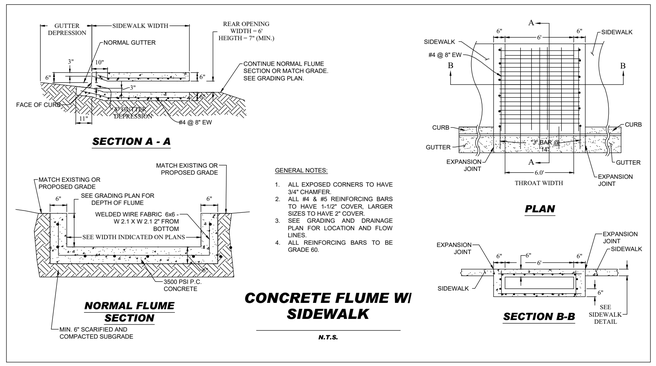
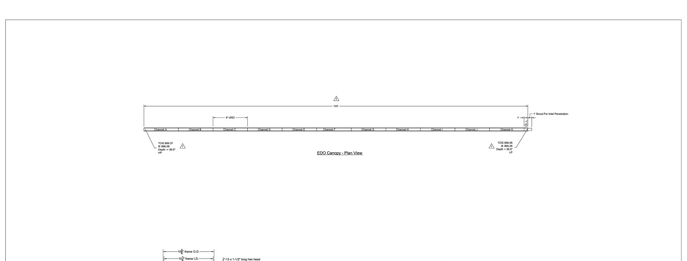
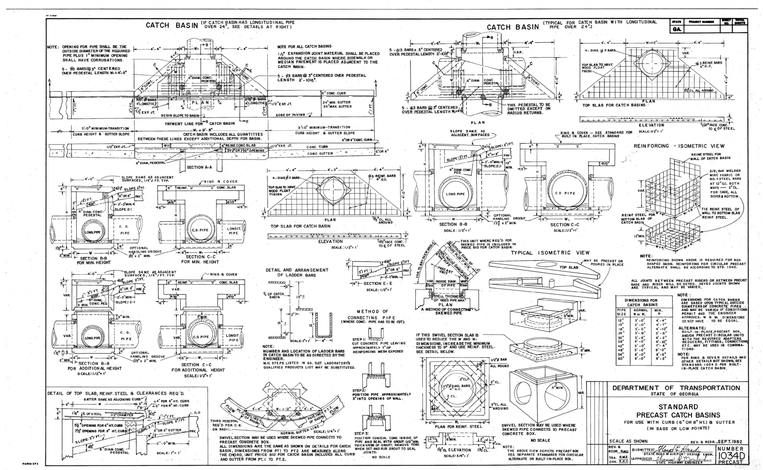
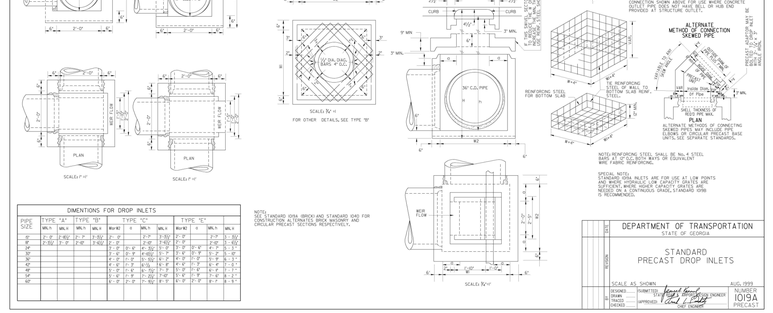


GENERAL NOTES:

1. ALL EXPOSED CORNERS TO HAVE 3/4" CHAMFER.
2. ALL #4 & #5 REINFORCING BARS TO HAVE 1-1/2" COVER, LARGER SIZES TO HAVE 2" COVER.
3. SEE GRADING AND DRAINAGE PLAN FOR LOCATION AND FLOW LINES.
4. ALL REINFORCING BARS TO BE GRADE 60.







		NF	10/27/22
		BY	DATE
	PHASE 2 BID PLANS		
	REVISION		
1			
NO.			

BOHLER
211 PERIMETER CENTER PKWY NE, SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
GA@BohlerEng.com

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RaceTrac
RACETRAC PETROLEUM, INC.
200 GALLERIA PKWY, SUITE 900
ATLANTA, GA 30339
(404) 857-6165

DRAINAGE DETAILS
4443 OLD DUNN COURT
ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	NTS
PROJECT No: GA204012	
C7.7	1
SHEET NO.	REVISION

H:\2020\GA204012\DRAWINGS\PLAN SETS\PHASE 2 BID PLANS\GA204012-SDP-3.DWG PRINTED BY: NFUSS 10.27.22 @ 8:13 AM LAST SAVED BY: NFUSS

BAYSAVER BAYSEPARATOR SPECIFICATIONS

MATERIALS AND DESIGN

A. CONCRETE STRUCTURES SHALL BE DESIGNED FOR H-20 TRAFFIC LOADING AND APPLICABLE SOIL LOADS OR AS OTHERWISE DETERMINED BY A LICENSED PROFESSIONAL ENGINEER. THE MATERIALS AND STRUCTURAL DESIGN OF THE DEVICES SHALL BE PER ASTM C857 AND ASTM C858.
   1. THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE IN THE MANHOLE BASE, RISER, AND TOP SECTIONS SHALL BE 4000 PSI.
   2. THE MINIMUM WALL THICKNESS SHALL BE ONE TWELFTH OF THE INTERNAL DIAMETER OF THE RISER OF LARGEST CONE DIAMETER.
   3. CEMENT SHALL CONFORM TO THE REQUIREMENTS FOR PORTLAND CEMENT OF SPECIFICATION C150.
   4. AGGREGATES SHALL CONFORM TO SPECIFICATION C33, EXCEPT THAT THE REQUIREMENT FOR GRADATION SHALL NOT APPLY.
   5. REINFORCEMENT SHALL CONSIST OF WIRE CONFORMING TO SPECIFICATION A82 OR SPECIFICATION A496, OF WIRE FABRIC CONFORMING TO SPECIFICATION A185 OR SPECIFICATION A497, OR OF BARS OF GRADE 40 STEEL CONFORMING TO SPECIFICATION A615/A615M.
   6. THE ACCESS COVER SHALL BE DESIGNED FOR HS20-44 TRAFFIC LOADING AND SHALL PROVIDE A MINIMUM 30 INCH CLEAR OPENING.
   7. ALL JOINTS SHALL BE WATERPROOF WITH WRAPPED GASKETS OR SEALED WITH A MASTIC TREATMENT.
   8. ANY GROUT USED WITHIN THE SYSTEM SHALL MEET THE ASTM C 1107 "STANDARD SPECIFICATION FOR PACKAGED DRY, HYDRAULIC-CEMENT GROUT (NON-SHRINK)". GRADES A, B AND C AT A POURABLE AND PLASTIC CONSISTENCY AT 70°F. CRD C 621 "CORPS OF ENGINEERS SPECIFICATION FOR NON-SHRINK GROUT."
   9. STORAGE MANHOLE CONNECTOR PIPES SHALL BE EQUIPPED WITH A SEAL GASKET THAT MEETS OR EXCEEDS MATERIAL SPECIFICATIONS OF ASTM C-923 OR OTHER LOCALLY APPROVED METHODS.

B. THE SEPARATOR STRUCTURE SHALL BE SUBSTANTIALLY CONSTRUCTED OF HDPE OR EQUIVALENT CORROSION RESISTANT MATERIAL MEETING ASTM D330, ASTM F412, AND ASTM C-425.

C. PIPES WITHIN THE UNIT, (I.E., TEE PIPES, CONNECTOR PIPES AND DOWN PIPES) SHALL BE CONSTRUCTED OF AT LEAST SDR 32.5 HDPE PIPE OF STANDARD ASTM F412.

D. PIPE AND FITTING MATERIAL SHALL BE HIGH DENSITY POLYETHYLENE MEETING ASTM D330 MINIMUM CELL CLASSIFICATION 335400C FOR 24-INCH THROUGH 60-INCH DIAMETERS. THE 24- THROUGH 60-INCH PIPE MATERIAL SHALL BE SLOW CRACK RESISTANT HDPE MATERIAL, EVALUATED USING THE SINGLE POINT NOTCHED CONSTANT TENSILE LOAD (SP-NCTL) TEST.

PERFORMANCE

A. THE STORMWATER TREATMENT UNIT SHALL BE AN ONLINE UNIT CAPABLE OF CONVEYING 100% OF THE DESIGN PEAK FLOW.

B. THE BAYSEPARATOR UNIT SHALL BE DESIGNED TO REMOVE AT LEAST 80% OF THE SUSPENDED SOLIDS LOAD ON AN ANNUAL AGGREGATE REMOVAL BASIS. SAID REMOVAL SHALL BE BASED ON FULL-SCALE THIRD PARTY TESTING USING F-95 MEDIA GRADATION (MANUFACTURED BY US SILICA) OR EQUIVALENT. SAID FULL SCALE TESTING SHALL HAVE INCLUDED SEDIMENT CAPTURE BASED ON ACTUAL TOTAL MASS COLLECTED BY THE STORMWATER TREATMENT UNIT(S).

C. THE STORMWATER TREATMENT UNIT SHALL CONSIST OF ONE (1) PREFABRICATED SEPARATOR STRUCTURE, ONE (1) ONLINE COARSE SEDIMENT CAPTURE STRUCTURE, AND ONE (1) OFFLINE SEDIMENT AND FLOATABLE CAPTURE STRUCTURE. THE SEPARATOR STRUCTURE SHALL BE SUBSTANTIALLY CONSTRUCTED OF HDPE OR EQUIVALENT CORROSION RESISTANT MATERIAL. THE OFFLINE SEDIMENT STORAGE STRUCTURE MUST PROVIDE FOR OFFLINE SEDIMENT STORAGE OF SEDIMENTS AND FLOATABLES THAT ARE ISOLATED FROM HIGH INTENSITY STORMS.

D. THE STORMWATER TREATMENT UNIT(S) HEAD LOSS AT THE PEAK DESIGN FLOW RATE SHALL NOT EXCEED THE HEAD LOSS SPECIFIED BY THE ENGINEER.

E. THE UNIT SHALL BE DESIGNED TO REMOVE SEDIMENT PARTICLES AS WELL AS FLOATING OILS AND DEBRIS.

MANUFACTURER

A. THE STORMWATER TREATMENT UNIT(S) SHALL BE OF A BASIC DESIGN THAT HAS BEEN INSTALLED AND USED SUCCESSFULLY FOR A MINIMUM OF 5 YEARS.

B. EACH STORMWATER TREATMENT SYSTEM SHALL BE A BAYSEPARATOR SYSTEM AS MANUFACTURED BY BAYSAVER, LLC, 1030 DEER HOLLOW DR., MOUNT AIRY, MD 21771, PHONE (301) 829-6470, FAX (301-829-3747, TOLL FREE 1-800-229-7283 (1-800-BAYSAVER), EMAIL INFO@BAYSAVER.COM
PROTECTED UNDER US PATENT NUMBER 5746911

BAYSEPARATOR MAINTENANCE

BAYSEPARATOR SYSTEMS MUST BE INSPECTED AND MAINTAINED PERIODICALLY. INSPECTION IS MADE BY CHECKING THE DEPTH OF SEDIMENT IN EACH MANHOLE WITH A GRADE STICK OR SIMILAR DEVICE. MAINTENANCE IS REQUIRED WHEN THE SEDIMENT DEPTH IN EITHER MANHOLE EXCEEDS 2 FEET. MINIMUM INSPECTION IS RECOMMENDED TWICE A YEAR TO MAINTAIN OPERATION AND FUNCTION OF BAYSAVER.

MAINTENANCE CONSISTS OF THE FOLLOWING:

A. STORAGE MANHOLE
1. REMOVE THE ENTIRE VOLUME OF THE CONTAMINATED WATER BY VACUUM TRUCK.
2. CLEAN THE MANHOLE WALLS AND FLUSH OUT THE MANHOLE USING A HIGH PRESSURE HOSE AND REMOVE FLUSHING WATER BY VACUUM TRUCK. MAKE CERTAIN MANHOLE IS CLEAN.

B. PRIMARY MANHOLE
1. USING A SUBMERSIBLE PUMP, PUMP THE CLEAN WATER FROM THE CENTER OF THE MANHOLE DIRECTLY INTO THE EMPTY STORAGE MANHOLE UNTIL THE WATER LEVEL FALLS TO 1 FOOT ABOVE THE SEDIMENT LAYER.
2. REMOVE THE SETTLED SEDIMENT AND REMAINING WATER BY VACUUM TRUCK.
3. CLEAN THE MANHOLE WALLS AND FLUSH OUT THE MANHOLE USING A HIGH PRESSURE HOSE AND REMOVE FLUSHING WATER BY VACUUM TRUCK. MAKE CERTAIN MANHOLE IS CLEAN.
4. CONTAMINATED MATERIAL REMOVED FROM THE MANHOLES MUST BE DISPOSED OF RESPONSIBLY AND LEGALLY BY THE OPERATOR OF THE VACUUM TRUCK.

BAYSEPARATOR INSTALLATION NOTES

1. EXCAVATION MUST PROVIDE ADEQUATE SPACE TO CONNECT INLET AND OUTLET PIPES TO STORAGE MANHOLE AND BAYSEPARATOR UNIT. INSTALL PRECAST DROP STRUCTURES ON SOLID GROUND AS VERIFIED BY A GEOTECHNICAL ENGINEER.
2. VERIFY THE SUBGRADE ELEVATION AGAINST THE MANHOLE DIMENSIONS AND CONNECTING STORM DRAIN INVERTS.
3. MAKING SURE THE BASES ARE LEVEL AND THE STORAGE MANHOLE OPENINGS ARE ALIGNED WITH THE SEPARATOR UNIT, INSTALL PRIMARY AND STORAGE MANHOLES. INSTALL WATERTIGHT GASKETS ON BASE UNITS AND COAT WITH LUBRICATING GREASE (IF REQUIRED). INSTALL ADDITIONAL MANHOLE SECTIONS AS REQUIRED. SEAL LIFT HOLES WITH NON-SHRINK GROUT.
4. BACKFILL BASE SECTIONS OF MANHOLES TO INVERT OF STORAGE MANHOLE CONNECTING PIPES. USING APPROVED BACKFILL MATERIAL, BACKFILL AND COMPACT IN 8 INCH LIFTS. BACKFILL AND COMPACTION SHOULD BE MONITORED BY A GEOTECHNICAL ENGINEER.
5. INSTALL BAYSEPARATOR UNIT AND CONNECTING PIPES. SEAL ALL CONNECTING JOINTS AND INSTALL SEPARATOR HDPE REDUCER/ADAPTER. CUT EXCESS LENGTH OFF CONNECTING PIPES INSIDE STORAGE MANHOLE.
6. BACKFILL SEPARATOR UNIT AND MANHOLES. AREAS NOT ACCESSIBLE TO COMPACTION EQUIPMENT MUST BE BACKFILLED WITH #57, #7, OR PEA GRAVEL.
7. INSTALL AND SET MANHOLE COVER GRADE ADJUSTMENT RINGS AS NECESSARY.
8. INSTALL AND SET MANHOLE FRAME AND COVER UNITS.

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PROPOSED LAYOUT

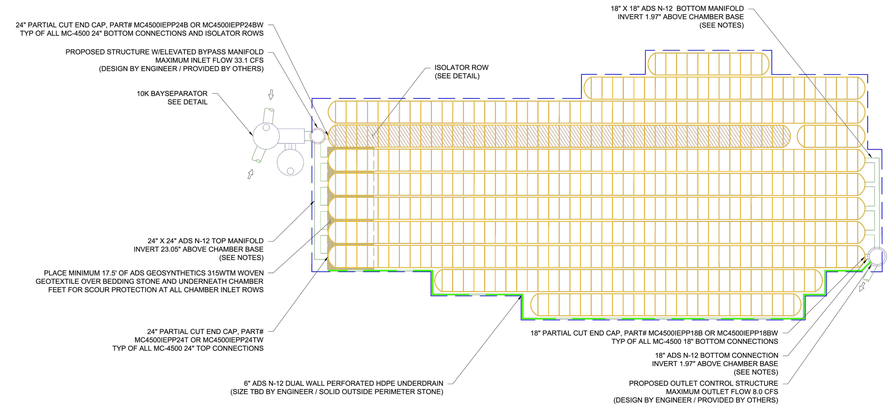
435	STORMTECH MC-4500 CHAMBERS
24	STORMTECH MC-4500 END CAPS
12	STONE ABOVE (in)
12	STONE BELOW (in)
40	% STONE VOID
79915	**INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)**
17731	SYSTEM AREA (ft²)
634	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS

888.00	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
883.50	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
883.00	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
883.00	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
883.00	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
882.00	TOP OF STONE
881.00	TOP OF MC-4500 CHAMBER
877.92	24" TOP MANIFOLD INVERT
876.19	24" ISOLATOR ROW CONNECTION INVERT
876.16	18" BOTTOM MANIFOLD / CONNECTION INVERT
876.00	BOTTOM OF MC-4500 CHAMBER
875.00	UNDERDRAIN INVERT
875.00	BOTTOM OF STONE

NOTES

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
- THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.
- THE SITE DESIGN ENGINEER MUST REVIEW THE PROXIMITY OF THE CHAMBERS TO THE SLOPE AND CONSIDER EFFECTS OF POSSIBLE SATURATED SOILS ON THE SLOPE'S INTEGRITY.



RACE TRAC-ELLENWOOD
ELLENWOOD, GA
DATE: 09-23-2020 DRAWN: LAH
PROJECT # S2O2412 CHECKED: KLJ

08-02-21	DHC	N/A	INCREASED HDI PIPES TO 24"
03/27/21	AVM	CJG	REVISED PER ENGINEERS MARKUPS
03/11/21	AVM	CJG	REVISED PER ENGINEERS MARKUP
10/02/20	AVM	NAB	REVISED PER ENGINEERS MARKUP
09-24-2020	LAH	KLJ	RELOCATED PER ENG
DATE	BY		DESCRIPTION

THIS SITE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS ARE FOLLOWED.

StormTech
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800.821.6710 | 860.928.7923 | FAX 860.928.8040 | www.stormtech.com

ADS
4640 TRUEMAN BLVD
HILLIARD, OH 43026
800.821.6710 | 614.658.0050

0 25' 50'

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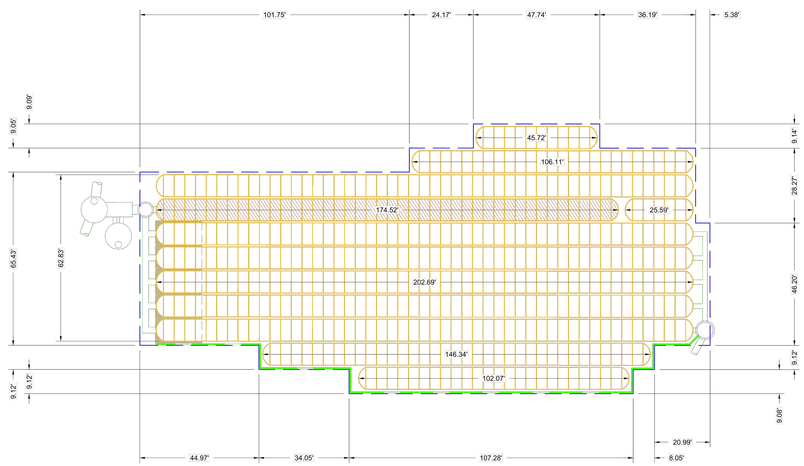
SHEET 3 OF 8



RACE TRAC-ELLENWOOD
ELLENWOOD, GA
DATE: 09-23-2020 DRAWN: LAH
PROJECT # S2O2412 CHECKED: KLJ

08-02-21	DHC	N/A	INCREASED HDI PIPES TO 24"
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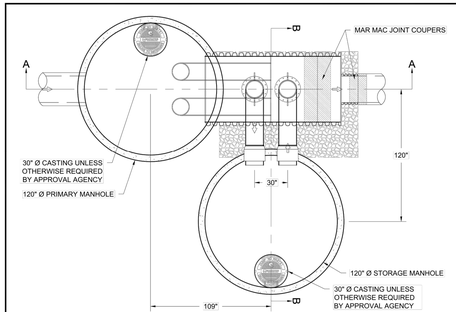
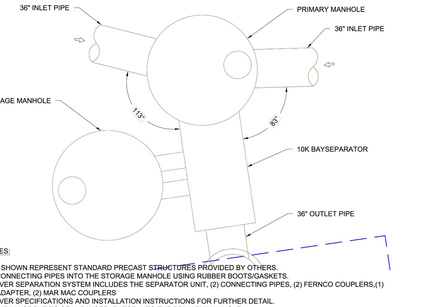
SHEET 4 OF 8

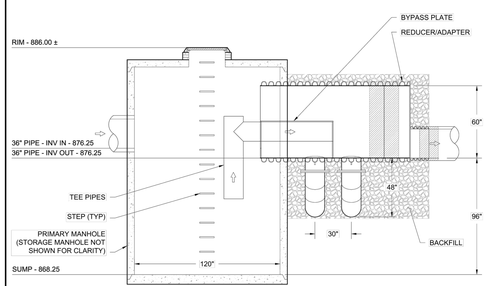


BAYSAVER BAYSEPARATOR 10K RIGHT HAND UNIT
NTS

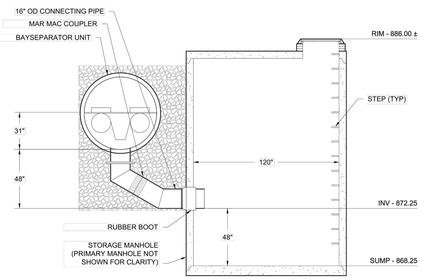


GENERAL NOTES:

1. MANHOLES SHOWN REPRESENT STANDARD PRECAST STRUCTURES PROVIDED BY OTHERS.
2. SEAL THE CONNECTING PIPES INTO THE STORAGE MANHOLE USING RUBBER BOOTS/GASKETS.
3. THE BAYSAVER SEPARATION SYSTEM INCLUDES THE SEPARATOR UNIT, (2) CONNECTING PIPES, (2) FERNCO COUPLERS,(1) REDUCER/ADAPTER, (2) MAR MAC COUPLERS
4. SEE BAYSAVER SPECIFICATIONS AND INSTALLATION INSTRUCTIONS FOR FURTHER DETAIL.
5. USE NON-SHRINK GROUT TO SEAL BAYSEPARATOR INTO THE PRIMARY MANHOLE.
6. BACKFILL: CLASS I, II OR III BACKFILL SHOULD BE USED TO AN ELEVATION OF AT LEAST 6" OVER THE CROWN OF THE SEPARATOR UNIT.
7. 24" COVER REQUIRED FOR TRAFFIC RATED SURFACE.
8. BAYSEPARATOR IS PROTECTED BY US PATENT NO. 5,746,911



PROFILE A-A
NTS



PROFILE B-B
NTS

RACE TRAC-ELLENWOOD
ELLENWOOD, GA
DATE: 09-23-2020 DRAWN: LAH
PROJECT # S2O2412 CHECKED: KLJ

08-02-21	DHC	N/A	INCREASED HDI PIPES TO 24"
03/27/21	AVM	CJG	REVISED PER ENGINEERS MARKUPS
03/11/21	AVM	CJG	REVISED PER ENGINEERS MARKUP
10/02/20	AVM	NAB	REVISED PER ENGINEERS MARKUP
09-24-2020	LAH	KLJ	RELOCATED PER ENG
DATE	BY		DESCRIPTION

THIS SITE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS ARE FOLLOWED.

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800.821.6710 | 614.658.0050

NOT TO SCALE

SHEET 5 OF 8

NO.	DATE	BY
1	10/27/22	NF

PHASE 2 BID PLANS
REVISION

BOHLER
211 PERIMETER CENTER PKWY NE, SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
GA@BohlerEng.com

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RaceTrac

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY, SUITE 900
ATLANTA, GA 30339
(404) 857-6165

DRAINAGE DETAILS

4443 OLD DUNN COURT
ELLENWOOD, GA 30294

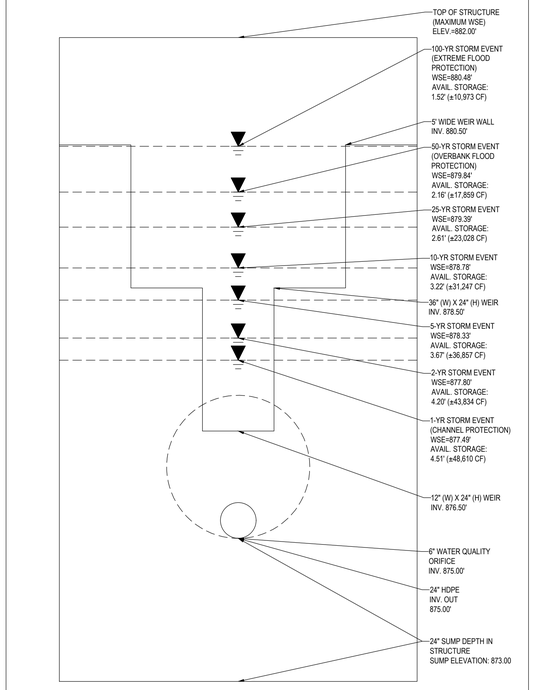
DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	NTS
PROJECT No: GA204012	
C7.8	1
SHEET NO.	REVISION

H:\2020\GA204012\DRAWINGS\PLAN SETS\PHASE 2 BID PLANS\GA204012-SDP-2.DWG PRINTED BY: NFUSS 10.27.22 @ 8:13 AM LAST SAVED BY: NFUSS

OUTLET CONTROL STRUCTURE WEIR WALL DETAIL

LOCATED IN STRUCTURE B-10.1

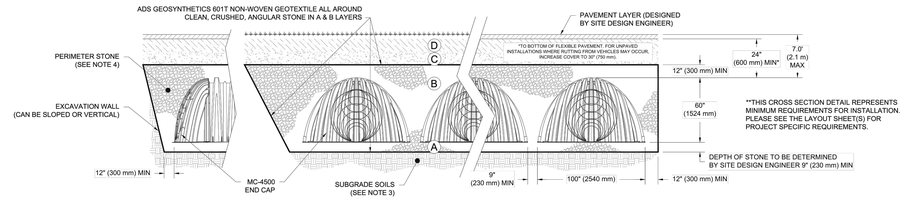
SCALE: 1"=1'



ACCEPTABLE FILL MATERIALS: STORMTECH MC-4500 CHAMBER SYSTEMS

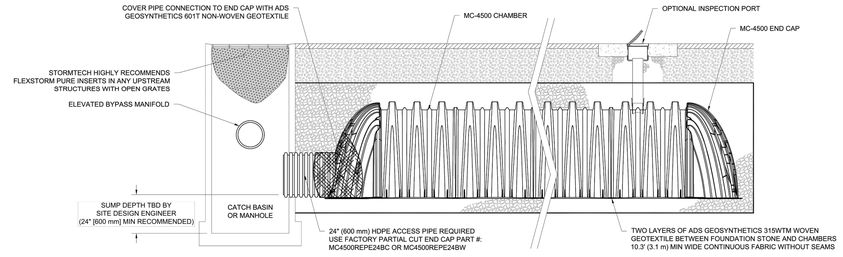
MATERIAL LOCATION		DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE (B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 4	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 60x101
2. MC-4500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.



MC-4500 ISOLATOR ROW DETAIL

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INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID. ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

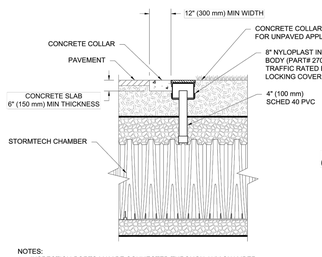
STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



CONNECTION DETAIL

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NOTES:
1. INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION VALLEY.
2. ALL SCHEDULE 40 FITTINGS TO BE SOLVENT CEMENTED (4" PVC NOT PROVIDED BY ADS).

4" PVC INSPECTION PORT DETAIL

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UNDERDRAIN DETAIL

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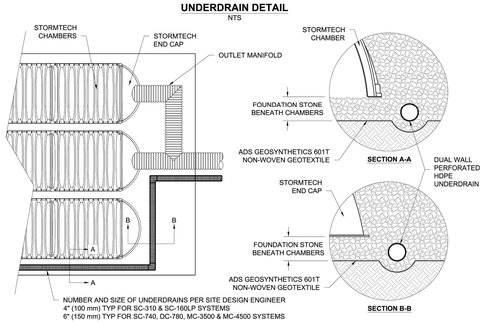

MC-SERIES END CAP INSERTION DETAIL

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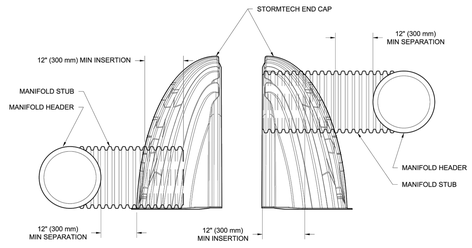
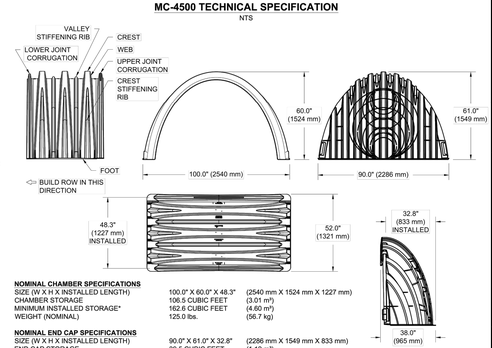


NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.

MC-4500 TECHNICAL SPECIFICATION

NTS



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	100.0" X 60.0" X 48.3"	(2540 mm X 1524 mm X 1227 mm)
CHAMBER STORAGE	106.5 CUBIC FEET	(3.01 m³)
MINIMUM INSTALLED STORAGE*	162.6 CUBIC FEET	(4.60 m³)
WEIGHT (NOMINAL)	125.0 lbs.	(56.7 kg)

NOMINAL END CAP SPECIFICATIONS

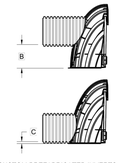
SIZE (W X H X INSTALLED LENGTH)	90.0" X 61.0" X 32.8"	(2286 mm X 1549 mm X 833 mm)
END CAP STORAGE	39.5 CUBIC FEET	(1.12 m³)
MINIMUM INSTALLED STORAGE*	115.3 CUBIC FEET	(3.26 m³)
WEIGHT (NOMINAL)	90 lbs.	(40.8 kg)

*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION AND BETWEEN CHAMBERS, 12" (305 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY.

PARTIAL CUT HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PARTIAL CUT HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"

PART #	STUB	B	C
MC4500IEPP06T	6" (150 mm)	42.54" (1081 mm)	---
MC4500IEPP06B		---	0.86" (22 mm)
MC4500IEPP08T	8" (200 mm)	40.50" (1029 mm)	---
MC4500IEPP08B		---	1.01" (26 mm)
MC4500IEPP10T	10" (250 mm)	38.37" (975 mm)	---
MC4500IEPP10B		---	1.33" (34 mm)
MC4500IEPP12T	12" (300 mm)	35.69" (907 mm)	---
MC4500IEPP12B		---	1.55" (39 mm)
MC4500IEPP15T	15" (375 mm)	32.72" (831 mm)	---
MC4500IEPP15B		---	1.70" (43 mm)
MC4500IEPP18T	18" (450 mm)	29.36" (746 mm)	---
MC4500IEPP18B		---	1.97" (50 mm)
MC4500IEPP18BW			
MC4500IEPP24T	24" (600 mm)	23.05" (585 mm)	---
MC4500IEPP24TW			
MC4500IEPP24B		---	2.26" (57 mm)
MC4500IEPP24BW			
MC4500IEPP30BW	30" (750 mm)	---	2.95" (75 mm)
MC4500IEPP36BW	36" (900 mm)	---	3.25" (83 mm)
MC4500IEPP42BW	42" (1050 mm)	---	3.55" (90 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL



CUSTOM PREFABRICATED INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-4500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

RACE TRAC-ELLENWOOD
ELLENWOOD, GA
DATE: 09-23-2020 | DRAWN: LAH | CHECKED: KLJ | PROJECT #: S202412

NO.	DESCRIPTION	DATE	DRWN.	CHKD.
1	INCREASED SHOPPES TO 36"	08-02-21	DHC	NA
2	REVISED PER ENGINEERS MARKUP	09/2721	AHG	CJD
3	REVISED PER ENGINEERS MARKUP	09/1721	AHG	JPR
4	REVISED PER ENGINEERS MARKUP	10/2020	AHG	MJS
5	RELOCATED PIPE ENS	10/26/20	LAH	KLJ

THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER (SDE). THE SITE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE PRODUCTS SPECIFIED MEET ALL APPLICABLE CODE REGULATIONS, AND PROJECT REQUIREMENTS.

StormTech
520 DOMINELL AVENUE | ROCKY HILL, CT | 06067
860-529-8188 | 888-892-2694 | FAX 866-328-8401 | WWW.STORMTECH.COM

ADS
4640 TRUEMAN BLVD
HILLIARD, OH 43026
800.733.7473 | 614.658.0314 | FAX 614.658.0425 | WWW.ADS-PIPE.COM

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BOHLER
211 PERIMETER CENTER PKWY NE, SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
GA@BohlerEng.com

NO.	DESCRIPTION	BY	DATE
1	PHASE 2 BID PLANS	NF	10/27/22

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RaceTrac

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ATLANTA, GA 30339
(404) 857-6165

DRAINAGE DETAILS

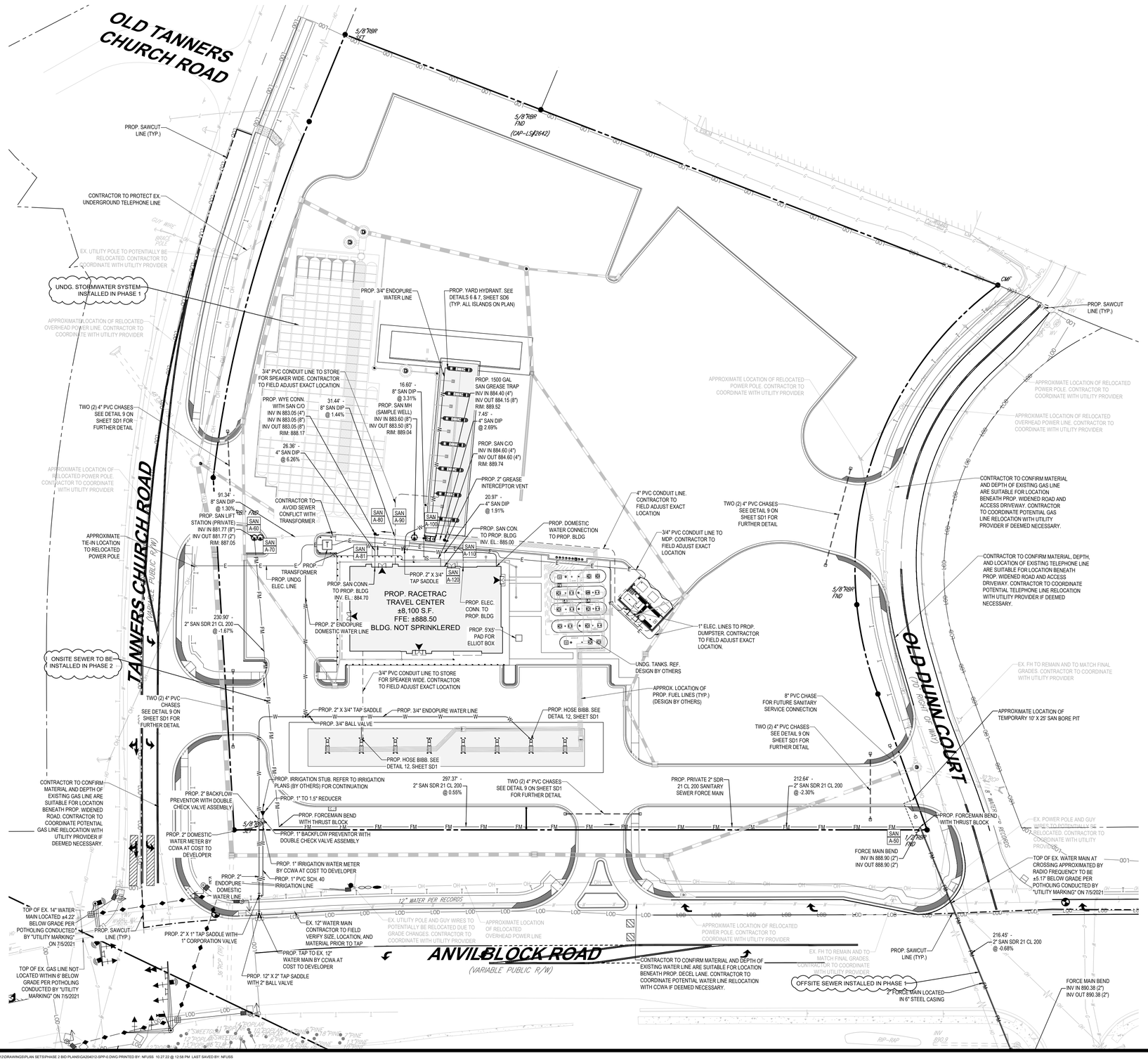
4443 OLD DUNN COURT
ELLENWOOD, GA 30294

DRAWN BY	DW / NF
DATE	10/27/2022
SCALE	NTS
PROJECT No: GA204012	
C7.9	1
SHEET NO.	REVISION

H:\2020\GA204012\DRAWINGS\PLAN SETS\PHASE 2 BID PLANS\GA204012-SDP-0.DWG PRINTED BY: NFUSS 10.27.22 @ 8:13 AM LAST SAVED BY: NFUSS

UTILITY NOTES:

1. PRIOR TO WORK COMMENCEMENT, CONTRACTOR IS TO CONTACT LOCAL "CALL DIG" SERVICES FOR LOCATION OF ALL UNDERGROUND UTILITIES. CONTRACTOR SHALL COORDINATE WITH ALL UTILITIES PRIOR TO COMMENCEMENT OF WORK WHICH INCLUDES, BUT NOT LIMITED TO, RELOCATION OF UTILITIES ALONG ROADWAY AND OFFSITE IMPROVEMENTS IN ORDER TO DELIVER THE PROJECT.
2. ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH GOVERNING LOCAL STANDARDS, LATEST EDITION.
3. CONTRACTOR SHALL UTILIZE SCHEDULE 40 PVC OR DUCTILE IRON PIPE FOR ALL SEWER SYSTEMS.
4. CONTRACTOR TO DELIVER ALL WATER AND SEWER SYSTEMS WITH A MINIMUM OF 10' HORIZONTAL AND 18" VERTICAL SEPARATIONS.
5. BUILDING CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL ELECTRICAL SERVICES TO THE BUILDING, WHICH INCLUDE, BUT NOT LIMITED TO, TRANSFORMER, TRANSFORMER PADS, METERS, ETC...
6. CONTRACTOR SHALL COMPARE ALL CIVIL AND BUILDING PLAN SETS PRIOR TO CONSTRUCTION. THE ENGINEER AN ARCHITECT SHALL BE NOTIFIED OF ANY UTILITY DISCREPANCIES.
7. CONTRACTOR TO COORDINATE UTILITY POLE RELOCATIONS WITH UTILITY PROVIDER.



UTILITY LEGEND

PHASE 1	TYPICAL NOTE TEXT	PHASE 2
SAN #	SANITARY LABEL	SAN #
FM FM	SANITARY FORCE MAIN	FM FM
S S	SANITARY SEWER MAIN	S S
SL	SANITARY SEWER LATERAL	SL
W	UNDERGROUND WATER LINE	W
E	UNDERGROUND ELECTRIC LINE	E
G	UNDERGROUND GAS LINE	G
OH	OVERHEAD WIRE	OH

CCWA GENERAL NOTES:

1. THE WATER DISTRIBUTION SYSTEM AND/OR SANITARY SEWER SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS CONTAINED WITHIN THE CCWA DOCUMENT TITLED, "STANDARD SPECIFICATIONS FOR WATER DISTRIBUTION SYSTEMS AND SANITARY SEWER SYSTEMS," LATEST EDITION.
2. WATER SERVICE CONNECTIONS TO WATER MAIN AND SERVICE LINES TO BE INSTALLED BY CCWA AT THE DEVELOPER'S EXPENSE.
3. DETECTION TAPE OR WIRE SHALL BE INSTALLED ABOVE ALL NON-FERROUS PIPE AND ALL FERROUS PIPE HAVING A BURY DEPTH OF SIX (6) FEET OR MORE. MYLAR DETECTION TAPE OR FERROUS WIRE SHALL BE INSTALLED TWO (2) FEET BELOW FINISHED GRADE SUCH THAT SEWER AND/OR LATERAL CAN BE DETECTED AFTER BURIAL.
4. THE PROPOSED SYSTEM IS NOT SITUATED ON A LEGALLY OR ILLEGALLY ESTABLISHED LANDFILL.
5. THE PROPOSED SYSTEM WILL NOT SERVICE A STRUCTURE SITUATED OVER A LEGALLY OR ILLEGALLY ESTABLISHED LANDFILL.

CCWA IRRIGATION NOTES:

1. IRRIGATION SYSTEM SHALL INCLUDE RAIN SENSOR SHUT-OFF SWITCH
2. IRRIGATION SYSTEM SHALL INCLUDE PRESSURE REGULATOR AND MASTER SHUT-OFF VALVE
3. IRRIGATION SYSTEM SHALL INCLUDE FLOW SENSORS THAT DETECT AND REPORT HIGH FLOW CONDITIONS DUE TO BROKEN PIPES AND/OR POPPED SPRINKLER HEADS.

OWNER/DEVELOPER

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY S.E.,
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ATLANTA, GA 30339
TIM WILLIAMS:
(404) 857-6165

NO.	BY	DATE
1	NF	10/27/22

PHASE 2 BID PLANS
REVISION

BOHLER
211 PERIMETER CENTER PKWY NE,
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ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
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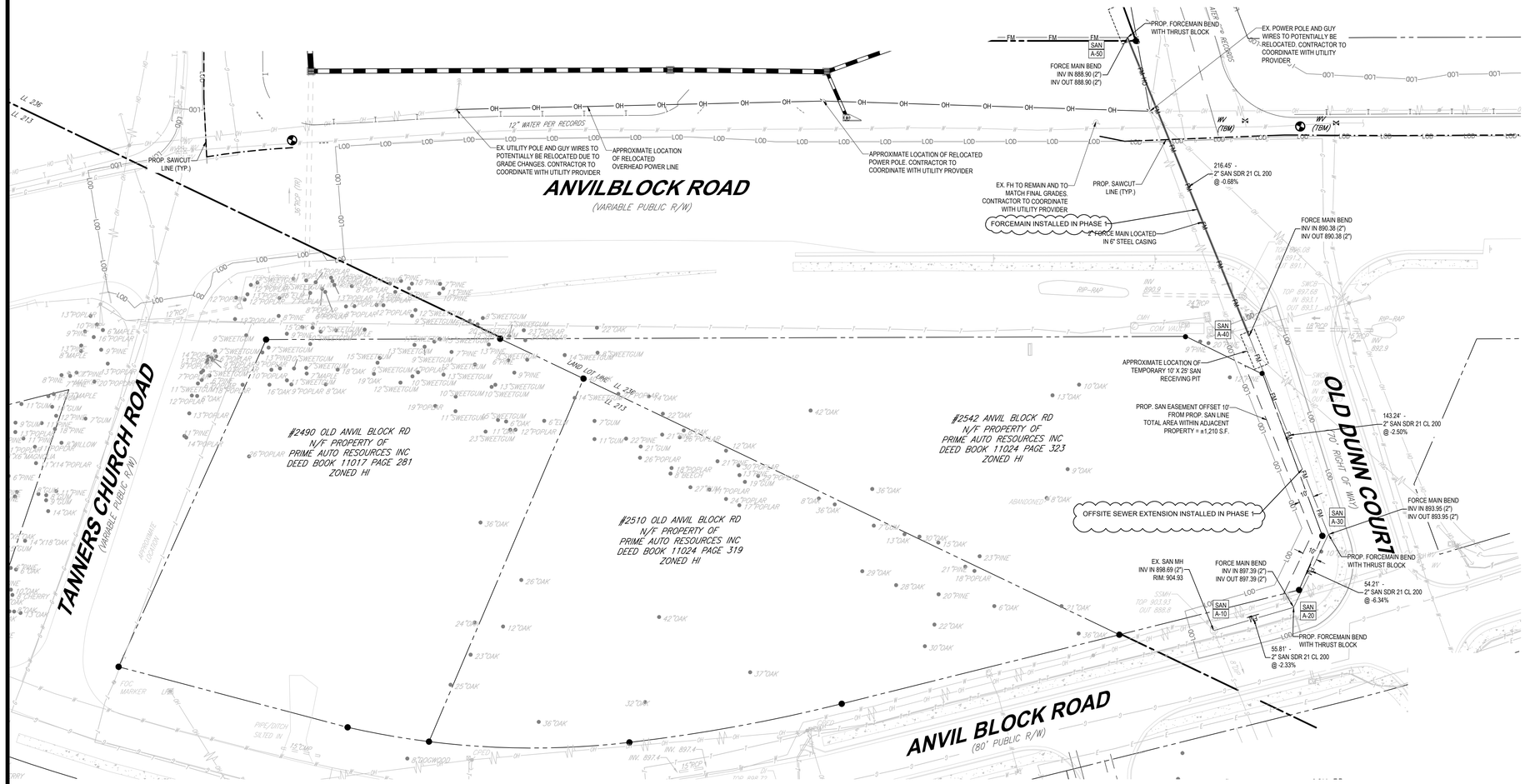
UTILITY PLAN

4443 OLD DUNN COURT
ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	1"=40'
PROJECT No: GA204012	
C8	1
SHEET NO.	REVISION



UTILITY LEGEND

EXISTING NOTE	TYPICAL NOTE TEXT	PROPOSED NOTE
SAN #	SANITARY LABEL	SAN #
STM #	STORM LABEL	STM #
SL	SANITARY SEWER LATERAL	SL
W	UNDERGROUND WATER LINE	W
E	UNDERGROUND ELECTRIC LINE	E
G	UNDERGROUND GAS LINE	G
OH	OVERHEAD WIRE	OH
T	UNDERGROUND TELEPHONE LINE	T
C	UNDERGROUND CABLE LINE	C
	STORM SEWER	
S	SANITARY SEWER MAIN	S
	HYDRANT	
S	SANITARY MANHOLE	S
D	STORM MANHOLE	D
WM	WATER METER	
WV	WATER VALVE	
	GAS VALVE	
	GAS METER	
	TYPICAL END SECTION	
	HEADWALL OR ENDWALL	
	YARD INLET	
	CURB INLET	
	CLEAN OUT	
E	ELECTRIC MANHOLE	E
T	TELEPHONE MANHOLE	T
EB	ELECTRIC BOX	EB
EP	ELECTRIC PEDESTAL	EP
	MONITORING WELL	
	TEST PIT	

CCWA GENERAL NOTES:

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OWNER/DEVELOPER

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TIM WILLIAMS:
(404) 857-6165

40 20 10 0 40
1"= 40'

NO.	REVISION	BY	DATE
1	PHASE 2 BID PLANS	NF	10/27/22

BOHLER
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GA@BohlerEng.com

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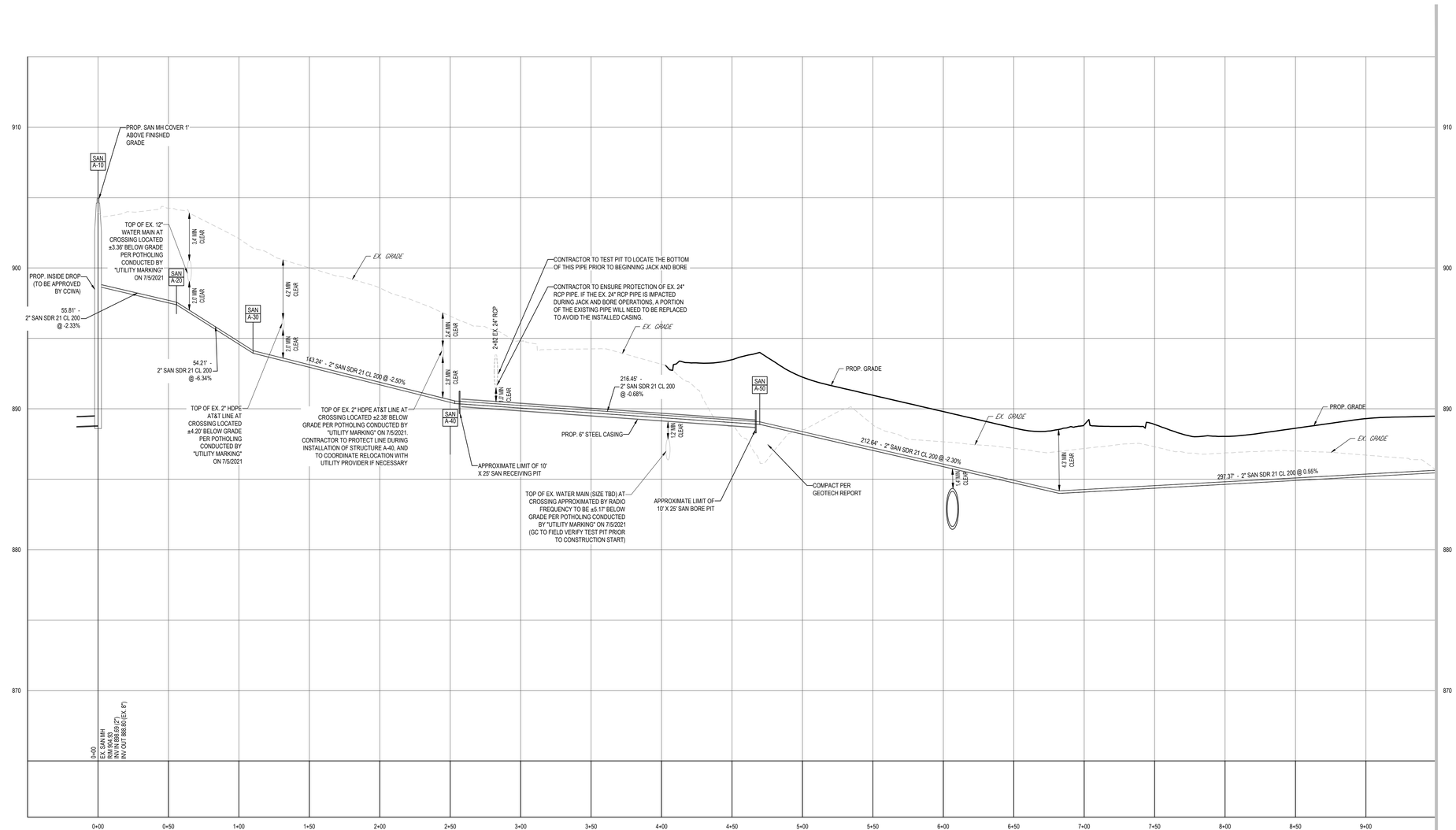
OFFSITE SANITARY SEWER PLAN

4443 OLD DUNN COURT

ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	1"=40'
PROJECT No:	GA204012
C8.1	1
SHEET NO.	REVISION



SEE SHEET C8.3 FOR CONTINUATION

PROPOSED SANITARY SEWER PROFILE (A-10 TO A-50)

SCALE: 1"= 40 ' HORIZONTAL
1"= 4 " VERTICAL

NO.	BY	DATE
1	NF	10/27/22
		PHASE 2 BID PLANS
		REVISION

BOHLER
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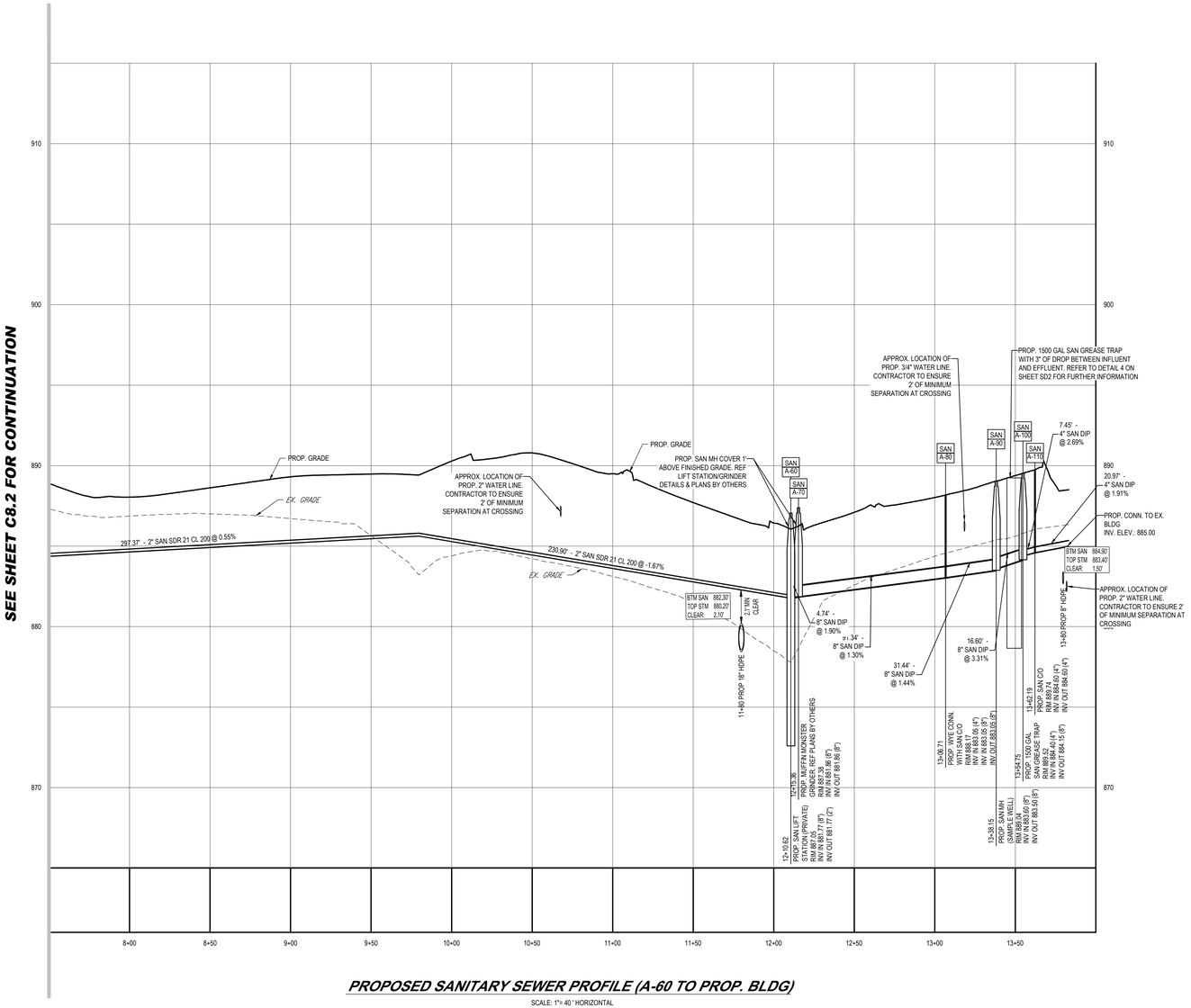
SANITARY SEWER PROFILES

4443 OLD DUNN COURT
ELLENWOOD, GA 30294

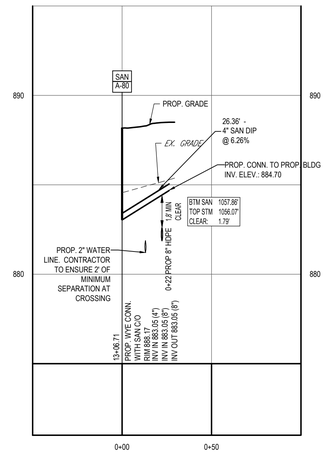
DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	NTS
PROJECT No: GA204012	
C8.2	1
SHEET NO.	REVISION

SEE SHEET C8.2 FOR CONTINUATION



PROPOSED SANITARY SEWER PROFILE (A-60 TO PROP. BLDG)

SCALE: 1"= 40 ' HORIZONTAL
1"= 4 ' VERTICAL



PROPOSED SANITARY SEWER PROFILE (A-80 TO PROP. BLDG)

SCALE: 1"= 40 ' HORIZONTAL
1"= 4 ' VERTICAL

NO.	REVISION	BY	DATE
1	PHASE 2 BID PLANS	NF	10/27/22

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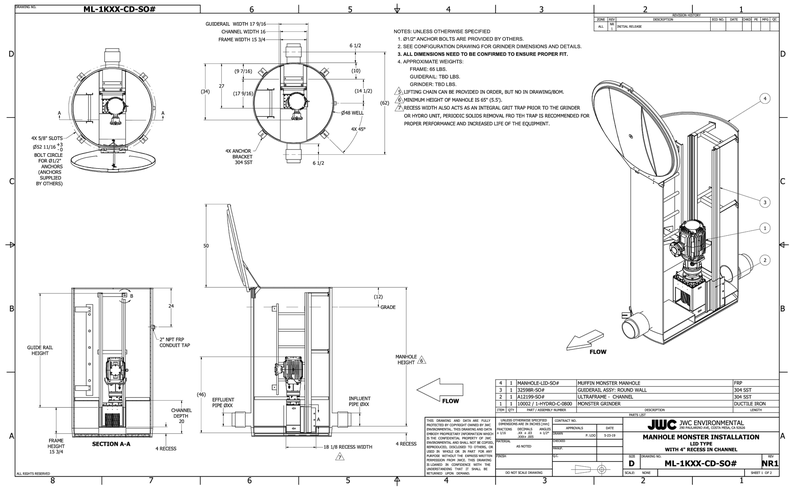
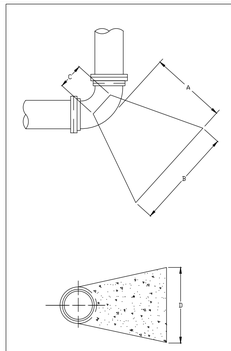
SANITARY SEWER PROFILES

4443 OLD DUNN COURT

ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	NTS
PROJECT No: GA204012	
C8.3	1
SHEET NO.	REVISION



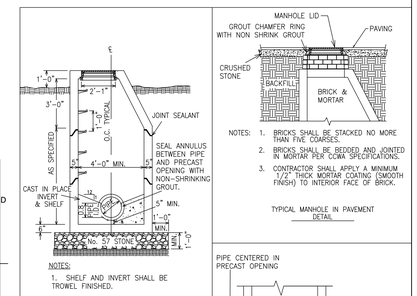


MINIMUM DIMENSIONS FOR CONCRETE BLOCKING

PIPE BEND	PIPE SIZE	A	B	C	D
11 1/4°	6"	1.0'	1.0'	7°	1.0'
	8"	1.0'	1.25'	7°	1.0'
	12"	1.0'	2.0'	11°	2.0'
	16"	2.0'	3.0'	15°	2.0'
	20"	2.0'	3.0'	19°	3.0'
	24"	3.0'	4.0'	22°	3.0'
22 1/2°	6"	1.0'	1.5'	7°	1.0'
	8"	1.0'	2.0'	7°	2.0'
	12"	2.0'	3.0'	11°	2.0'
	16"	2.0'	4.0'	15°	3.0'
	20"	3.0'	4.0'	19°	3.0'
	24"	4.0'	6.0'	22°	4.0'
45°	6"	1.5'	2.0'	7°	1.5'
	8"	2.0'	3.0'	7°	2.0'
	12"	2.0'	4.0'	11°	3.0'
	16"	3.0'	5.0'	15°	4.0'
	20"	4.0'	6.0'	19°	5.0'
	24"	5.0'	8.0'	22°	6.0'
90°	6"	1.5'	2.5'	7°	2.0'
	8"	2.0'	3.0'	7°	3.0'
	12"	4.0'	6.0'	11°	4.0'
	16"	4.0'	7.0'	15°	5.0'
	20"	8.0'	8.0'	19°	7.0'
	24"	6.0'	10.0'	22°	8.0'
TEES AND PLUGS	6"	1.5'	2.0'	7°	2.0'
	8"	2.0'	3.0'	7°	2.0'
	12"	2.0'	4.0'	11°	4.0'
	16"	3.0'	5.0'	15°	5.0'
	20"	4.0'	6.0'	19°	6.0'
	24"	5.0'	8.0'	22°	7.0'

NOTES:
1. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.
2. THRUST BLOCK SHALL BE POURED AGAINST UNDISTURBED SOIL.
3. BOLTS/NUTS SHALL BE PROTECTED FROM CONCRETE COVERAGE.

CLAYTON COUNTY WATER AUTHORITY			
DATE:	12 FEBRUARY 2002	DETAIL TITLE: THRUST BLOCK DIMENSIONS	DETAIL NO. 9.1
SCALE:	N.T.S.		
DRAWN BY:	SRD		

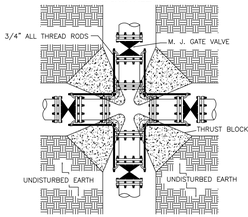


NOTES: UNSUITABLE SOILS ENCOUNTERED IN BOTTOM OF EXCAVATED TRENCH SHALL BE EXCAVATED & REPLACED WITH NO. 57 STONE.

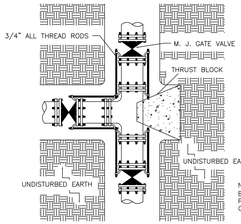
ONLY SUITABLE SOIL SHALL BE USED AS BACKFILL.

CLAYTON COUNTY WATER AUTHORITY			
DATE:	12 FEBRUARY 2002	DETAIL TITLE: TYPICAL DUCTILE IRON PIPE BEDDING	DETAIL No. 8.1
SCALE:	N.T.S.		
DRAWN BY:	SRD		

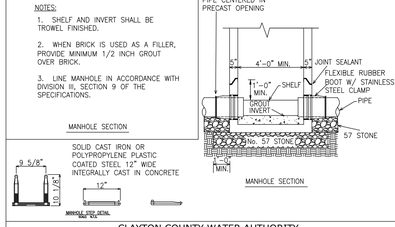
CROSS INSTALLATION



TEE INSTALLATION



CLAYTON COUNTY WATER AUTHORITY			
DATE:	12 FEBRUARY 2002	DETAIL TITLE: THRUST RESTRAINT AT FITTING	DETAIL NO. 10.1
SCALE:	N.T.S.		
DRAWN BY:	SRD		



NOTES:
1. BRICKS SHALL BE STACKED NO MORE THAN FIVE COARSES.
2. BRICKS SHALL BE BEDDED AND JOINTED IN MORTAR PER CCWA SPECIFICATIONS.
3. CONTRACTOR SHALL APPLY A MINIMUM 1/2" THICK MORTAR COATING (SMOOTH FINISH) TO INTERIOR FACE OF BRICK.

TYPICAL MANHOLE IN PAVEMENT DETAIL

NOTES:
1. SHELF AND INVERT SHALL BE TROWEL FINISHED.
2. WHEN BRICK IS USED AS A FILLER, PROVIDE MINIMUM 1/2 INCH GROUT OVER BRICK.
3. LINE MANHOLE IN ACCORDANCE WITH DIVISION III, SECTION 9 OF THE SPECIFICATIONS.

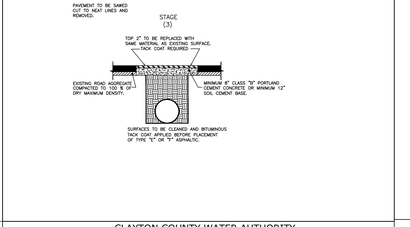
MANHOLE SECTION

MANHOLE SECTION

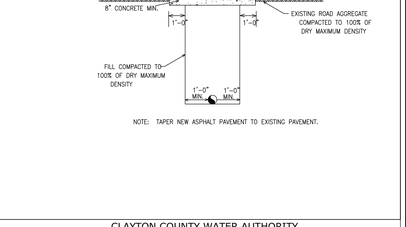
SOLID CAST IRON OR POLYPROPYLENE PLASTIC COATED STEEL 12" WIDE INTEGRALLY CAST IN CONCRETE

MANHOLE STEP DETAIL

CLAYTON COUNTY WATER AUTHORITY			
DATE:	12 FEBRUARY 2002	DETAIL TITLE: MANHOLE SECTIONS	DETAIL NO. 21.1
DATE MODIFIED:	5 JANUARY 2004		
SCALE:	N.T.S.		
DRAWN BY:	SRD		



CLAYTON COUNTY WATER AUTHORITY			
DATE:	12 FEBRUARY 2002	DETAIL TITLE: TYPICAL ASPHALT REPLACEMENT	DETAIL No. 28.1
SCALE:	N.T.S.		
DRAWN BY:	WWB		



NOTE: TAPER NEW ASPHALT PAVEMENT TO EXISTING PAVEMENT.

CLAYTON COUNTY WATER AUTHORITY			
DATE:	12 FEBRUARY 2002	DETAIL TITLE: TYPICAL ASPHALT TO CURB REPLACEMENT	DETAIL No. 29.1
SCALE:	N.T.S.		
DRAWN BY:	WWB		

CLAYTON COUNTY WATER AUTHORITY			
DATE:	MAY 24, 2005	DETAIL TITLE: PIPE DETECTION INSTALLATION I	DETAIL NO. 2.2
SCALE:	N.T.S.		
DRAWN BY:	SRD		

NOTE: VALVE BOX SHALL NOT BE SET IN A DEPRESSED AREA.

CLAYTON COUNTY WATER AUTHORITY			
DATE:	12 FEBRUARY 2002	DETAIL TITLE: VALVE BOX	DETAIL NO. 6.1
SCALE:	N.T.S.		
DRAWN BY:	SRD		

CLAYTON COUNTY WATER AUTHORITY			
DATE:	MAY 24, 2005	DETAIL TITLE: PIPE DETECTION INSTALLATION II	DETAIL NO. 2.3
SCALE:	N.T.S.		
DRAWN BY:	WWB		

NO.	DATE	BY
1	10/27/22	NF

PHASE 2 BID PLANS REVISION

BOHLER
211 PERIMETER CENTER PKWY NE, SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
GA@BohlerEng.com

FOR BIDDING PURPOSES ONLY

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RACETRAC PETROLEUM, INC.
200 GALLERIA PKWY, SUITE 900
ATLANTA, GA 30339
(404) 857-6165

UTILITY DETAILS
4443 OLD DUNN COURT
ELLENWOOD, GA 30294

DRAWN BY	DW / NF
DATE	10/27/2022
SCALE	NTS
PROJECT No: GA204012	
C8.4	1
SHEET NO.	REVISION

Technical Information

GRP34/3

Operating data

Flow	36 US g.p.m.
Head	29 ft
Shaft power P2	2.73 hp
Pump efficiency	40.6 %
Required pump NPSH	
Pumpe type	Single pump
No. of pumps	1
Fluid	Water, clean

Pump

Pump Code	GRP34/3
Impeller	Vane impeller with cutter sys.
Impeller size	4"hx"
Solid size	
Discharge port	2" M
Sudion port	

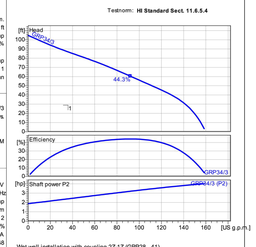
Motor

Rated voltage	208-230/ 460 V
Frequency	60 Hz
Rated power P2	4.1 hp
Rated speed	3450 rpm
Number of poles	2
Efficiency	63 %
Rated current	12.0-10.4 / 5.2 A
Degree of protection	IP 68

Materials

Motor housing	Cast Iron ASTM A48;Cl.40B
Pump housing	Cast Iron ASTM A48;Cl.40B
Motor bearing cover	Cast Iron ASTM A48;Cl.40B
Impeller	Cast Iron ASTM A48;Cl.40B
Cutting system	Hardened Stainless Steel HRC55
Motor shaft	AISI 430 F Stainless Steel
Bolts	AISI 304 Stainless Steel
O-Rings	Nitrile Rubber
Mechanical seal on medium side	SiC / SiC
Mechanical seal on motor side	SiC / SiC
Lower Bearing	Double row angular ball bearing
Upper Bearing	Deep Groove Ball Bearing

Testnorm: **HI Standard Sect. 11.6.5.4**



Wet well installation with coupling 2Z-1Z (GRP28...41)
Dimensions in mm [inch], letters see table

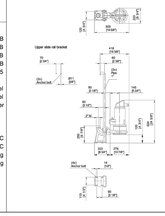


Table Dimensions (inch)

Project	Project no.:	Created by:	Page:	Date:
			1	10/1/2021

2.5.1 - 7.7.0.20377 (Build 147)

Performance Curve

GRP34/3

Impeller

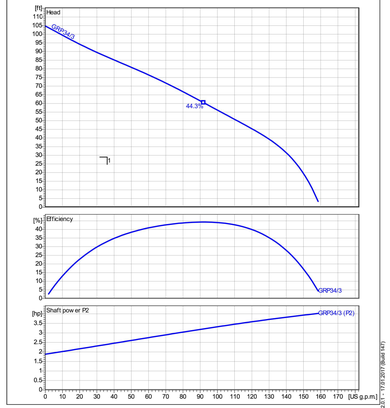
Impeller type:	Solid size	Ø:	Max. Ø:	Min. Ø:	Sel. Ø:
Vane impeller with cutter sys.			6"hx"	6"hx"	4"hx"

Operating data

Speed:	Frequency:	Duty point:	Shaft power P2:	Discharge port:
3450 rpm	60 Hz	Q =36 US g.p.m. H =29 ft	2.73 hp	2" M

Power data referred to:
Water [100%] ; 68°F; 62.322lb/ft³; 1.0618E-6ft²/s

Testnorm: **HI Standard Sect. 11.6.5.4**



Project	Project no.:	Created by:	Page:	Date:
			2	10/1/2021

2.5.1 - 7.7.0.20377 (Build 147)

Dimensions

GRP34/3

Wet well installation with coupling 2Z-1Z (GRP28...41)
Dimensions in mm [inch], letters see table

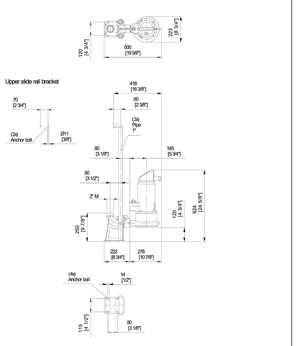


Table Dimensions (inch)

Project	Project no.:	Created by:	Page:	Date:
			3	10/1/2021

2.5.1 - 7.7.0.20377 (Build 147)

Technical Data

GRP34/3

Operating data

Flow	**36 US g.p.m**	**US g.p.m.**	**Head**	**29 ft**	**ft**
Shaft power P2	**2.7**	**hp**	**Static head**	**0**	**ft**
Pump efficiency	**40.6**	**%**	**Required pump NPSH**		**ft**
Pumpe type	Single pump		No. of pumps	1	
Fluid	Water, clean		Temperature	68	°F
Density	62.32	lb/ft³	Kin. viscosity	1.082E-5	ft²/s

Pump

Pump Code	GRP34/3	Speed	3450	rpm
Suction port		Head Max.	104.8	ft
Dischargе port	2" M	Head Min.	3.3	ft
Impeller type	Vane impeller with cutter sys.	Flow Max.	158.5	US g.p.m.
Solid size	inch	Pump efficiency max.	44.3	%
Impeller Ø	4.84 inch	Required rated power max. P2	4.0	hp

Motor

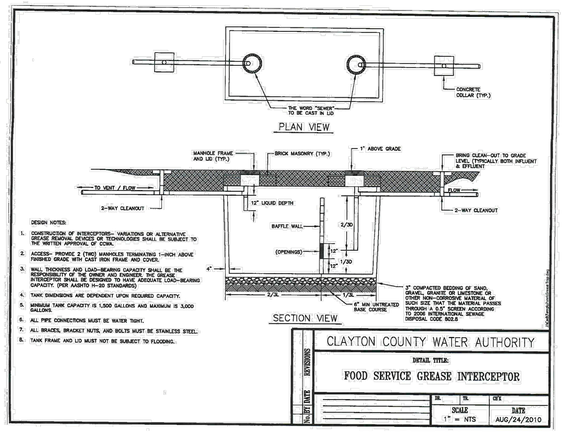
Motor design	Submersible motor	Insulation class	H	
Motor name	AM136.5,4/2/3	Degree of protection	IP 68	
Frequency	60 Hz	Temperature class	T4	
Rated power P2	4.1 hp	NEMA code	H	
		Explosion protection		
Rated speed	3450 rpm	Efficiency at % rated power	100% 83.0	%
Rated voltage	208-230 / 460 V	3~	75%	%
Rated current	12.0-10.4 / 5.2	A	50%	%
Starting current, direct starting	76.8-66.8 / 33,4	A	cos phi at % rated power 100% 0.84	
Starting current, star-delta		A	75%	
Starting mode	Directly		50%	
Power cable	6G1,5	Control cable		
Type of power cable	H07RN8-F PLUS	Type of control cable		
Cable length	32.8 ft	Service factor	1.15	
Shaft seal	Mechanical seal on medium side	SiC / SiC		
	Mechanical seal on motor side	SiC / SiC		
Bearing	Lower Bearing	Double row angular ball bearing		
	Upper Bearing	Deep Groove Ball Bearing		
Remarks				

Materials / Weight

Motor housing	Cast Iron ASTM A48;Cl.40B	Motor shaft	AISI 430 F Stainless Steel
Pump housing	Cast Iron ASTM A48;Cl.40B	Bolts	AISI 304 Stainless Steel
Motor bearing cover	Cast Iron ASTM A48;Cl.40B	O-Rings	Nitrile Rubber
Impeller	Cast Iron ASTM A48;Cl.40B		
Cutting system	Hardened Stainless Steel HRC55		
Weight aggregat	97.002 lb		

Project	Project no.:	Created by:	Page:	Date:
			4	10/1/2021

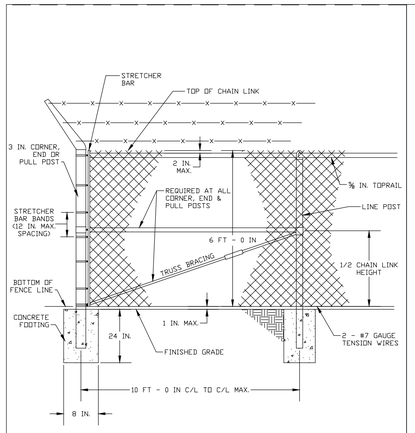
2.5.1 - 7.7.0.20377 (Build 147)



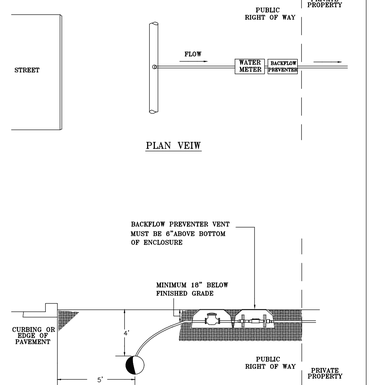
DESIGN NOTES:

1. CONSTRUCTION OF INTERCEPTORS– VARIATIONS OR ALTERNATIVE GREASE REMOVAL DEVICES OR TECHNOLOGIES SHALL BE SUBJECT TO THE WRITTEN APPROVAL OF CCWA.
2. ACCESS– PROVIDE 2 (TWO) MANHOLES TERMINATING 1–INCH ABOVE FINISHED GRADE, WITH CAST IRON FRAME AND COVER.
3. WALL THICKNESS AND LOAD–BEARING CAPACITY SHALL BE THE RESPONSIBILITY OF THE OWNER AND ENGINEER. THE GREASE INTERCEPTOR SHALL BE DESIGNED TO HAVE ADEQUATE LOAD–BEARING CAPACITY. (PER AASHTO H–20 STANDARDS)
4. TANK DIMENSIONS ARE DEPENDENT UPON REQUIRED CAPACITY.
5. MINIMUM TANK CAPACITY IS 1,500 GALLONS AND MAXIMUM IS 3,000 GALLONS.
6. ALL PIPE CONNECTIONS MUST BE WATER TIGHT.
7. ALL BRACES, BRACKET NUTS, AND BOLTS MUST BE STAINLESS STEEL.
8. TANK FRAME AND LID MUST NOT BE SUBJECT TO FLOODING..

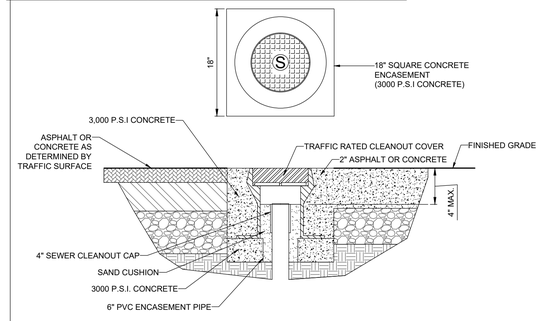
CLAYTON COUNTY WATER AUTHORITY			
DETAIL TITLE: FOOD SERVICE GREASE INTERCEPTOR			
NO.	BY	DATE	REVISIONS
SCALE: 1" = NTS		DATE: AUG./24/2010	



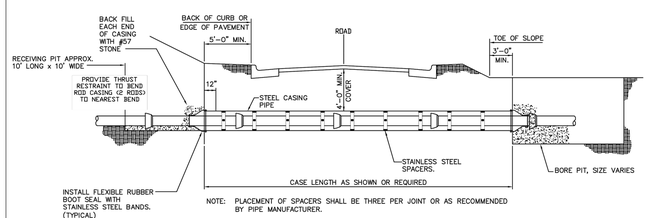
CLAYTON COUNTY WATER AUTHORITY			
DATE:	12 FEBRUARY 2002	DETAIL TITLE:	DETAIL NO.
SCALE:	N.T.S.	CHAIN LINK FENCE	27.1
DRAWN BY:	SRD		



CLAYTON COUNTY WATER AUTHORITY			
DATE:	12 FEBRUARY 2002	DETAIL TITLE:	DETAIL No.
SCALE:	N.T.S.	WATER METER BOX	11.1
DRAWN BY:	SRD		



TRAFFIC RATED CLEANOUT DETAIL
NOT TO SCALE



NOTE: PLACEMENT OF SPACERS SHALL BE THREE PER JOINT OR AS RECOMMENDED BY PIPE MANUFACTURER.

TYPICAL JACK AND BORE DETAIL
N.T.S.

ALLOWABLE SPANS FOR STEEL CASING PIPE

CARRIER PIPE, DIP DIAMETER (IN.)	CASING PIPE, STEEL DIAMETER (IN.)	MINIMUM CASING PIPE WALL THICKNESS (IN.)	ALLOWABLE SPAN (FT.)
6	14	0.3750	40
8	16	0.3750	45
10	18	0.3750	50
12	20	0.3750	50
14	24	0.3750	55
16	26	0.3750	55
18	30	0.3750	60
20	32	0.3750	60
24	36	0.4375	65
30	42	0.4375	65
36	48	0.500	65
42	56	0.5000	65

NO.	BY	DATE
1	NF	10/27/22

PHASE 2 BID PLANS
REVISION

BOHLER
211 PERIMETER CENTER PKWY NE,
SUITE 425
ATLANTA, GEORGIA 30346
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RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY, SUITE 900
ATLANTA, GA 30339
(404) 857-6165

UTILITY DETAILS
4443 OLD DUNN COURT
ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	NTS
PROJECT No: GA204012	
C8.5	1
SHEET NO.	REVISION

GENERAL DEMOLITION NOTES:

1. THIS PLAN REFERENCES DOCUMENTS AND INFORMATION BY:

   ALTA SURVEY BY GEOSURVEY
   1660 BARNES MILL ROAD
   MARIETTA, GA 30062
   PROJECT NO.: 20206563
   DATED: 05/19/2020

2. CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, (29 U.S.C. 651 et seq.), AS AMENDED AND ANY MODIFICATIONS, AMENDMENTS OR REVISIONS TO SAME.

3. BOHLER ENGINEERING HAS NO CONTRACTUAL, LEGAL, OR OTHER RESPONSIBILITY FOR JOB SITE SAFETY OR JOB SITE SUPERVISION, OR ANYTHING RELATED TO SAME.

4. THE DEMOLITION PLAN IS INTENDED TO PROVIDE GENERAL INFORMATION, ONLY, REGARDING ITEMS TO BE DEMOLISHED AND/OR REMOVED. THE CONTRACTOR MUST ALSO REVIEW THE OTHER SITE PLAN DRAWINGS AND INCLUDE IN DEMOLITION ACTIVITIES ALL INCIDENTAL WORK NECESSARY FOR THE CONSTRUCTION OF THE NEW SITE IMPROVEMENTS.

5. CONTRACTOR MUST RAISE ANY QUESTIONS CONCERNING THE ACCURACY OR INTENT OF THESE PLANS OR SPECIFICATIONS, CONCERNS REGARDING THE APPLICABLE SAFETY STANDARDS, OR THE SAFETY OF THE CONTRACTOR OR THIRD PARTIES IN PERFORMING THE WORK ON THIS PROJECT, WITH BOHLER ENGINEERING, IN WRITING, AND RESPONDED TO BY BOHLER, IN WRITING, PRIOR TO THE INITIATION OF ANY SITE ACTIVITY AND ANY DEMOLITION ACTIVITY. ALL DEMOLITION ACTIVITIES MUST BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS AND ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, RULES, REQUIREMENTS, STATUTES, ORDINANCES AND CODES.

6. PRIOR TO STARTING ANY DEMOLITION, CONTRACTOR IS RESPONSIBLE FOR/TO:
   OBTAINING ALL REQUIRED PERMITS AND MAINTAINING THE SAME ON SITE FOR REVIEW BY THE ENGINEER AND OTHER PUBLIC AGENCIES HAVING JURISDICTION THROUGHOUT THE DURATION OF THE PROJECT, SITE WORK AND DEMOLITION WORK.

7. THE LOCATION OF EXISTING UNDERGROUND UTILITIES AS INDICATED ON THE PLAN IS APPROXIMATE. FIELD LOCATE ALL UNDERGROUND EXISTING UTILITIES LOCATED IN THE AREA OF WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CALL "GA 811" PRIOR TO CONSTRUCTION FOR ASSISTANCE IN LOCATING EXISTING UNDERGROUND UTILITIES. SUBSURFACE FEATURES ARE SHOWN IN AN APPROXIMATE LOCATION. CONTRACTOR IS RESPONSIBLE FOR SUBSURFACE UTILITY EXPLORATION TO DETERMINE UNDERGROUND UTILITY LOCATIONS AND DEPTH.

8. ALL SIDEWALKS AND CURB AND GUTTER SECTIONS SHALL BE REMOVED BY SAWCUTTING THE NEAREST CONTROL JOINT AWAY FROM THE LOCATION DESIGNATED FOR REMOVAL ON THE PLANS. EXISTING PAVEMENT SHALL BE SAWCUT IN ALL LOCATIONS WHERE ABUTTING NEW PAVEMENT OR CONCRETE.

9. COORDINATE ALL UTILITY REMOVAL, RELOCATION, & ABANDONMENT WITH THE APPROPRIATE UTILITY SERVICE PROVIDER. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL UTILITY SERVICES TO ADJACENT PROPERTIES DURING ALL PHASES OF CONSTRUCTION. ALL UTILITIES TO BE DEMOLISHED SHALL BE TAKEN BACK TO R.O.W.

10. THE CRZ OF SPECIMEN TREES SHALL BE PROTECTED WITH 6- FOOT CHAIN LINK TREE SAVE FENCING SPACED 6 FEET ON CENTER WITH METAL SUPPORT POSTS AND TREE SAVE SIGNAGE. INSTALLATION OF THE TREE SAVE FENCE WILL INVOLVE NO TRENCHING. 3 INCHES OF ORGANIC MULCH OVER THE CRZ AND AN ABOVE GROUND IRRIGATION SYSTEM.

11. TREE SAVE FENCE FOR THE ENTIRE SITE MUST BE INSTALLED, INSPECTED AND APPROVED PRIOR TO THE INSTALLATION OF EROSION CONTROL MEASURES. NO LAND DISTURBANCE OR DEMOLITION IS ALLOWED BEFORE TREE SAVE FENCING HAS BEEN INSPECTED AND APPROVED BY COMMUNITY DEVELOPMENT DIRECTOR.

12. ALL EXISTING TREES, SPECIMEN, AND NON-SPECIMEN, COUNTED FOR EDF CREDITS MUST BE FULLY PRESERVED DURING INDIVIDUAL LOT PERMITTING.

CLAYTON COUNTY TRANSPORTATION NOTES:

1. THE PERSON ULTIMATELY RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL PRACTICES ON THIS SITE AND WHO IS TO BE CONTACTED IN THE EVENT OF A STOP WORK ORDER IS: **NAME: TIM WILLIAMS PHONE #: (404) 857-6165**

2. NO BURY PITS ALLOWED ON SITE.

3. ANY REVISION TO THE PLANS AFTER THE INITIAL SUBMITTAL, OTHER THAN THE RESPONSE TO THE PLAN REVIEW COMMENTS, WILL BE INDICATED ON REVISIONS AND SUBMITTED WITH A WRITTEN EXPLANATION OF THE REVISIONS AND THE REASONS.

4. ANY VARIATIONS FROM THE PERMITTED PLANS, CHANGES IN DESIGN RESULTING FROM FIELD CONDITIONS, OR SUBSTITUTION OF CONSTRUCTION MATERIAL ARE TO BE REVIEWED AND APPROVED BY THE RESPONSIBLE DESIGN ENGINEER AND CLAYTON COUNTY LAND DEVELOPMENT.

5. PLANS ARE REVIEWED IN GENERAL, SPECIFIC DETAILS AND CALCULATIONS MAY NOT BE CHECKED. THE ENGINEERS STAMP AND SIGNATURE GUARANTEES THE ACCURACY OF THE CALCULATIONS AND DESIGN. PLAN APPROVAL DOES NOT OBLIGATE THE COUNTY TO ACCEPT THE WORK, NOR DOES IT RELIEVE THE DEVELOPER AND OR ENGINEER FROM COMPLIANCE WITH ANY OTHER COUNTY, STATE, OR FEDERAL ORDINANCES AND LAWS. PLAN APPROVAL DOES NOT RELIEVE THE DEVELOPER FROM THE RESPONSIBILITY FOR DAMAGES TO ADJACENT OR DOWNSTREAM PROPERTY RESULTING FROM THIS DEVELOPMENT.

6. PLAN APPROVAL IS SUBJECT TO THE PROPER IMPLEMENTATION OF SEDIMENT CONTROL AND OFFSITE DRAINAGE PROCEDURES.

7. MUD AND SILT ARE STRICTLY PROHIBITED FROM LEAVING THE SITE.

8. APPROVED IN GENERAL AND SPECIFIC DETAILS NOT CHECKED. APPROVAL DOES NOT RELIEVE OWNER FROM COMPLYING WITH SPECIFICATIONS OR REGULATIONS.

CCWA GENERAL NOTES:

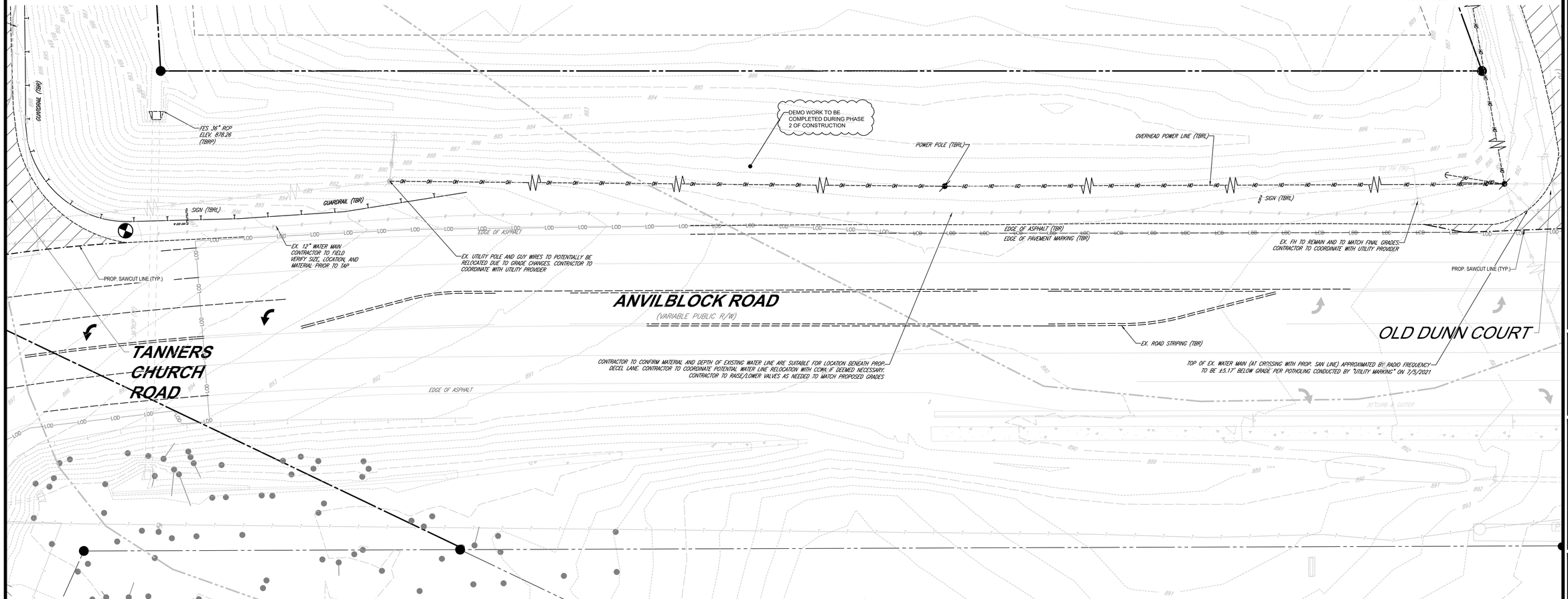
1. PLANS INDICATED PREPARED USING THE FOLLOWING STATE PLAN COORDINATION SYSTEM.
   HORIZONTAL: NAD 83, VERTICAL: NAVD 88, GRID ZONE: GA WEST 1002.

DEMOLITION LEGEND

EXISTING NOTE	TYPICAL NOTE TEXT	DEMOLITION NOTE
	PROPERTY LINE	
	EASEMENT LINE	
	RIGHT OF WAY LINE	
	LIMITS OF DISTURBANCE	LOD LOD
	SAWCUT LINE	
	ROADWAY CENTERLINE	
W W W	UNDERGROUND WATER LINE	W W W
E E E	UNDERGROUND ELECTRIC LINE	E E E
S S S	SANITARY SEWER MAIN	S S S
	STORM SEWER MAIN	
C	UNDERGROUND GAS LINE	C C C
OH	OVERHEAD WIRE	OH OH
T	UNDERGROUND TELEPHONE LINE	T T T
C	UNDERGROUND CABLE LINE	C C C
S	SANITARY MANHOLE	S
WV	WATER VALVE	WV
	FIRE HYDRANT	

ANNOTATION LEGEND:

TBR: TO BE REMOVED
TR: TO REMAIN
TBRL: TO BE RELOCATED
TBA: TO BE ABANDONED
TBRP: TO BE REPLACED



MAPPED SOIL TYPES

SOIL TYPE	DESCRIPTION	HYDROLOGIC SOIL GROUP
AmC	APPLING SANDY LOAM	B
CA	CARTECAY LOAM	B
CeB	CECIL SANDY LOAM	B
PaC	PACOLET SANDY LOAM, 6 TO 10 PERCENT SLOPES	B
PaE	PACOLET SANDY LOAM, 10 TO 25 PERCENT SLOPES	B
TAKEN FROM: USDA, NRCS WEB SOIL SURVEY FOR CLAYTON COUNTY, GEORGIA		

SITE DATA CHECKLIST

TOTAL PARCEL AREA	± 6.64 AC
ZONING	HEAVY INDUSTRIAL; HIGHWAY 42 OVERLAY
ON-SITE DISTURBED AREA	± 6.64 AC
OFF-SITE DISTURBED AREA	± 3.45 AC
TOTAL DISTURBED AREA	± 10.09 AC

OWNER/DEVELOPER
RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY S.E.,
SUITE 900
ATLANTA, GA 30339
TIM WILLIAMS:
(404) 857-6165

20 10 5 0 20
1"= 20'

NO.	BY	DATE
1	NF	10/27/22

PHASE 2 BID PLANS
REVISION

BOHLER
211 PERIMETER CENTER PKWY NE,
SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
GA@BohlerEng.com

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RaceTrac.
RACETRAC PETROLEUM, INC.
LEGAL DEPARTMENT
200 GALLERIA PKWY SE, SUITE 900
ATLANTA, GA 30339
(404) 857-6165

ROADWAY DEMOLITION PLAN - ANVILBLOCK

4443 OLD DUNN COURT
ELLENWOOD, GA 30294

DRAWN BY	DW / NF
DATE	10/27/2022
SCALE	1"=20'
PROJECT No: GA204012	
C9	1
SHEET NO.	REVISION

GENERAL DEMOLITION NOTES:

1. THIS PLAN REFERENCES DOCUMENTS AND INFORMATION BY:

   ALTA SURVEY BY GEOSURVEY
   1660 BARNES MILL ROAD
   MARIETTA, GA 30062
   PROJECT NO.: 20206563
   DATED: 05/19/2020

2. CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, (29 U.S.C. 651 et seq.), AS AMENDED AND ANY MODIFICATIONS, AMENDMENTS OR REVISIONS TO SAME.

3. BOHLER ENGINEERING HAS NO CONTRACTUAL, LEGAL, OR OTHER RESPONSIBILITY FOR JOB SITE SAFETY OR JOB SITE SUPERVISION, OR ANYTHING RELATED TO SAME.

4. THE DEMOLITION PLAN IS INTENDED TO PROVIDE GENERAL INFORMATION, ONLY, REGARDING ITEMS TO BE DEMOLISHED AND/OR REMOVED. THE CONTRACTOR MUST ALSO REVIEW THE OTHER SITE PLAN DRAWINGS AND INCLUDE IN DEMOLITION ACTIVITIES ALL INCIDENTAL WORK NECESSARY FOR THE CONSTRUCTION OF THE NEW SITE IMPROVEMENTS.

5. CONTRACTOR MUST RAISE ANY QUESTIONS CONCERNING THE ACCURACY OR INTENT OF THESE PLANS OR SPECIFICATIONS, CONCERNS REGARDING THE APPLICABLE SAFETY STANDARDS, OR THE SAFETY OF THE CONTRACTOR OR THIRD PARTIES IN PERFORMING THE WORK ON THIS PROJECT, WITH BOHLER ENGINEERING, IN WRITING, AND RESPONDED TO BY BOHLER, IN WRITING, PRIOR TO THE INITIATION OF ANY SITE ACTIVITY AND ANY DEMOLITION ACTIVITY. ALL DEMOLITION ACTIVITIES MUST BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS AND ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, RULES, REQUIREMENTS, STATUTES, ORDINANCES AND CODES.

6. PRIOR TO STARTING ANY DEMOLITION, CONTRACTOR IS RESPONSIBLE FOR/TO:
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12. ALL EXISTING TREES, SPECIMEN, AND NON-SPECIMEN, COUNTED FOR EDF CREDITS MUST BE FULLY PRESERVED DURING INDIVIDUAL LOT PERMITTING.

CLAYTON COUNTY TRANSPORTATION NOTES:

1. THE PERSON ULTIMATELY RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL PRACTICES ON THIS SITE AND WHO IS TO BE CONTACTED IN THE EVENT OF A STOP WORK ORDER IS: **NAME: TIM WILLIAMS PHONE #: (404) 857-6165**

2. NO BURY PITS ALLOWED ON SITE.

3. ANY REVISION TO THE PLANS AFTER THE INITIAL SUBMITTAL, OTHER THAN THE RESPONSE TO THE PLAN REVIEW COMMENTS, WILL BE INDICATED ON REVISIONS AND SUBMITTED WITH A WRITTEN EXPLANATION OF THE REVISIONS AND THE REASONS.

4. ANY VARIATIONS FROM THE PERMITTED PLANS, CHANGES IN DESIGN RESULTING FROM FIELD CONDITIONS, OR SUBSTITUTION OF CONSTRUCTION MATERIAL ARE TO BE REVIEWED AND APPROVED BY THE RESPONSIBLE DESIGN ENGINEER AND CLAYTON COUNTY LAND DEVELOPMENT.

5. PLANS ARE REVIEWED IN GENERAL. SPECIFIC DETAILS AND CALCULATIONS MAY NOT BE CHECKED. THE ENGINEERS STAMP AND SIGNATURE GUARANTEES THE ACCURACY OF THE CALCULATIONS AND DESIGN. PLAN APPROVAL DOES NOT OBLIGATE THE COUNTY TO ACCEPT THE WORK, NOR DOES IT RELIEVE THE DEVELOPER AND OR ENGINEER FROM COMPLIANCE WITH ANY OTHER COUNTY, STATE, OR FEDERAL ORDINANCES AND LAWS. PLAN APPROVAL DOES NOT RELIEVE THE DEVELOPER FROM THE RESPONSIBILITY FOR DAMAGES TO ADJACENT OR DOWNSTREAM PROPERTY RESULTING FROM THIS DEVELOPMENT.

6. PLAN APPROVAL IS SUBJECT TO THE PROPER IMPLEMENTATION OF SEDIMENT CONTROL AND OFFSITE DRAINAGE PROCEDURES.

7. MUD AND SILT ARE STRICTLY PROHIBITED FROM LEAVING THE SITE.

8. APPROVED IN GENERAL AND SPECIFIC DETAILS NOT CHECKED. APPROVAL DOES NOT RELIEVE OWNER FROM COMPLYING WITH SPECIFICATIONS OR REGULATIONS.

CCWA GENERAL NOTES:

1. PLANS INDICATED PREPARED USING THE FOLLOWING STATE PLAN COORDINATION SYSTEM.
   HORIZONTAL: NAD 83, VERTICAL: NAVD 88, GRID ZONE: GA WEST 1002.

DEMOLITION LEGEND

EXISTING NOTE	TYPICAL NOTE TEXT	DEMOLITION NOTE
	PROPERTY LINE	
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	RIGHT OF WAY LINE	
	LIMITS OF DISTURBANCE	LOD LOD
	SAWCUT LINE	
	ROADWAY CENTERLINE	
W W W	UNDERGROUND WATER LINE	W W W
E E E	UNDERGROUND ELECTRIC LINE	E E E
S S S	SANITARY SEWER MAIN	S S S
	STORM SEWER MAIN	
G	UNDERGROUND GAS LINE	G G G
OH	OVERHEAD WIRE	OH OH

EXISTING NOTE	TYPICAL NOTE TEXT	DEMOLITION NOTE
T	UNDERGROUND TELEPHONE LINE	T T T
C	UNDERGROUND CABLE LINE	C C C
S	SANITARY MANHOLE	S
WV	WATER VALVE	WV
	FIRE HYDRANT	

ANNOTATION LEGEND:

TBR: TO BE REMOVED
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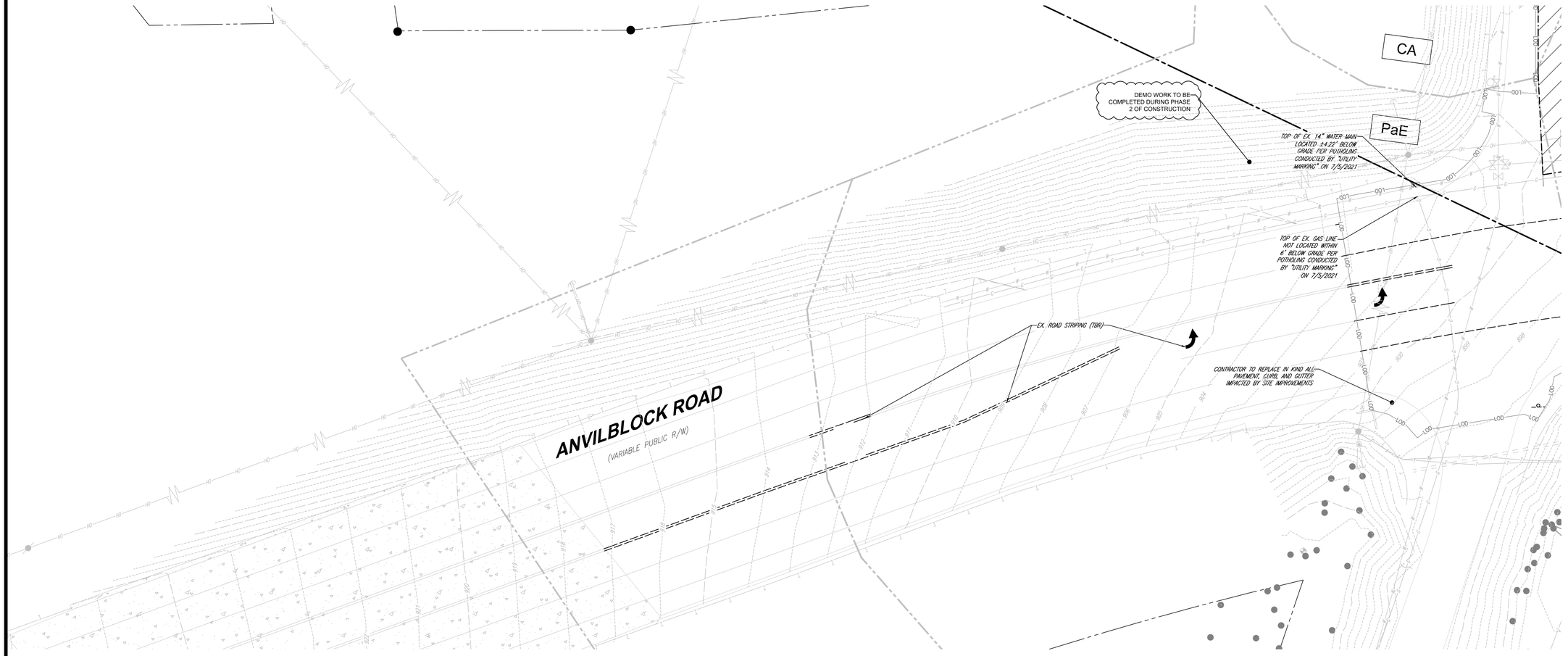

MAPPED SOIL TYPES

SOIL TYPE	DESCRIPTION	HYDROLOGIC SOIL GROUP
AmC	APPLING SANDY LOAM	B
CA	CARTECAY LOAM	B
CeB	CECIL SANDY LOAM	B
PaC	PACOLET SANDY LOAM, 6 TO 10 PERCENT SLOPES	B
PaE	PACOLET SANDY LOAM, 10 TO 25 PERCENT SLOPES	B
TAKEN FROM: USDA, NRCS WEB SOIL SURVEY FOR CLAYTON COUNTY, GEORGIA		

SITE DATA CHECKLIST

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ZONING	HEAVY INDUSTRIAL; HIGHWAY 42 OVERLAY
ON-SITE DISTURBED AREA	± 6.64 AC
OFF-SITE DISTURBED AREA	± 3.45 AC
TOTAL DISTURBED AREA	± 10.09 AC

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1"= 20'

OWNER/DEVELOPER

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY S.E.,
SUITE 900
ATLANTA, GA 30339
TIM WILLIAMS:
(404) 857-6165

NO.	REVISION	BY	DATE
1	PHASE 2 BID PLANS	NF	10/27/22

BOHLER

211 PERIMETER CENTER PKWY NE,
SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
GA@BohlerEng.com

FOR BIDDING PURPOSES ONLY

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RaceTrac

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY SE, SUITE 900
ATLANTA, GA 30339
(404) 857-6165

ROADWAY DEMOLITION PLAN - ANVILBLOCK

4443 OLD DUNN COURT

ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	1"=20'
PROJECT No: GA204012	
C9.1	1
SHEET NO.	REVISION

GENERAL DEMOLITION NOTES:

1. THIS PLAN REFERENCES DOCUMENTS AND INFORMATION BY:

   ALTA SURVEY BY GEOSURVEY
   1660 BARNES MILL ROAD
   MARIETTA, GA 30062
   PROJECT NO.: 20206563
   DATED: 05/19/2020

2. CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, (29 U.S.C. 651 et seq.), AS AMENDED AND ANY MODIFICATIONS, AMENDMENTS OR REVISIONS TO SAME.

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CCWA GENERAL NOTES:

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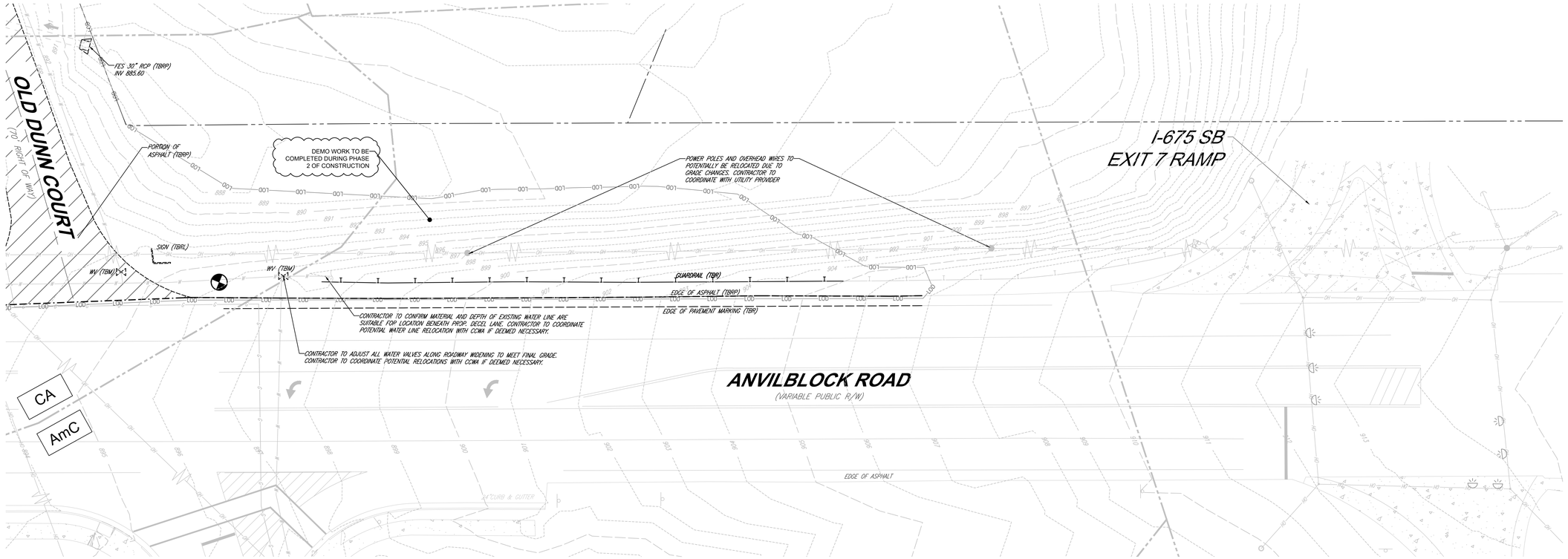

MAPPED SOIL TYPES

SOIL TYPE	DESCRIPTION	HYDROLOGIC SOIL GROUP
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OWNER/DEVELOPER

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200 GALLERIA PARKWAY S.E.,
SUITE 900
ATLANTA, GA 30339
TIM WILLIAMS:
(404) 857-6165

NO.	BY	DATE
1	NF	10/27/22

PHASE 2 BID PLANS
REVISION

BOHLER
211 PERIMETER CENTER PKWY NE,
SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
GA@BohlerEng.com

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RaceTrac

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY SE, SUITE 900
ATLANTA, GA 30339
(404) 857-6165

ROADWAY DEMOLITION PLAN - ANVILBLOCK RIGHT TURN

4443 OLD DUNN COURT

ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	1"=20'
PROJECT No: GA204012	
C9.2	1
SHEET NO.	REVISION

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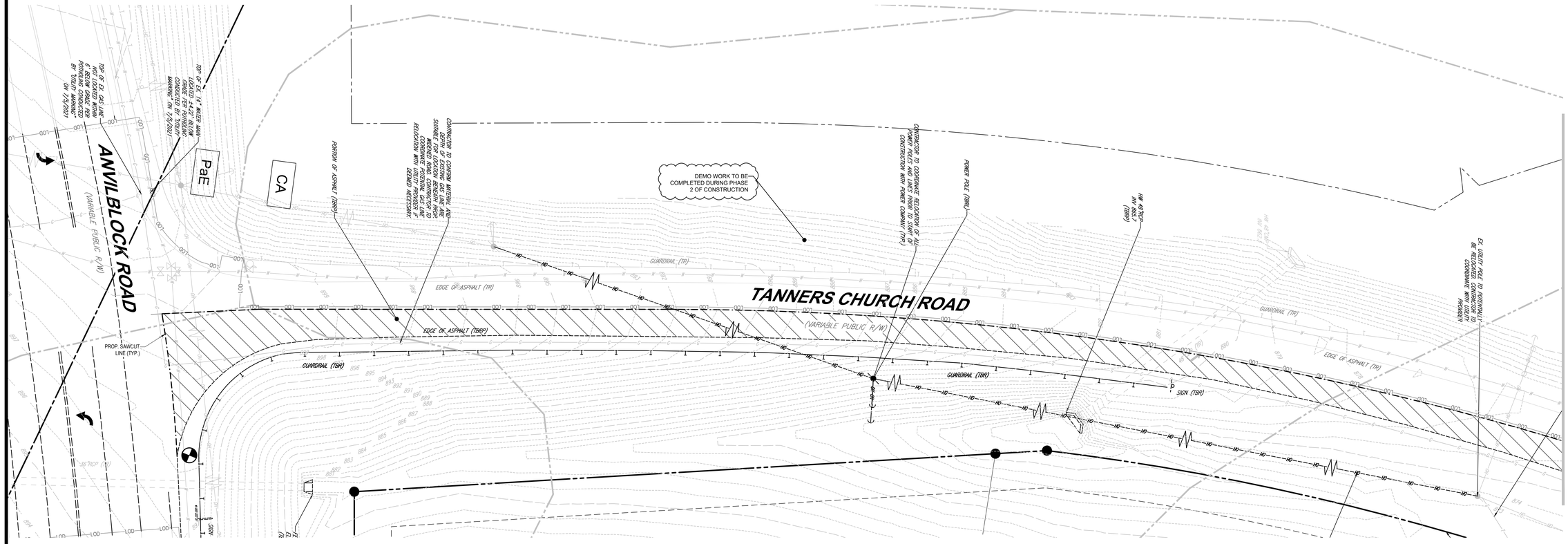

MATCHLINE
SEE SHEET C9.4 FOR CONTINUATION

GENERAL DEMOLITION NOTES:

1. THIS PLAN REFERENCES DOCUMENTS AND INFORMATION BY:

   ALTA SURVEY BY GEOSURVEY
   1660 BARNES MILL ROAD
   MARIETTA, GA 30062
   PROJECT NO.: 20206563
   DATED: 05/19/2020

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OWNER/DEVELOPER

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SUITE 900
ATLANTA, GA 30339
TIM WILLIAMS:
(404) 857-6165

20 10 5 0 20
1"= 20'

NO.	REVISION	BY	DATE
1.	PHASE 2 BID PLANS	NF	10/27/22

BOHLER
211 PERIMETER CENTER PKWY NE, SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
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RaceTrac
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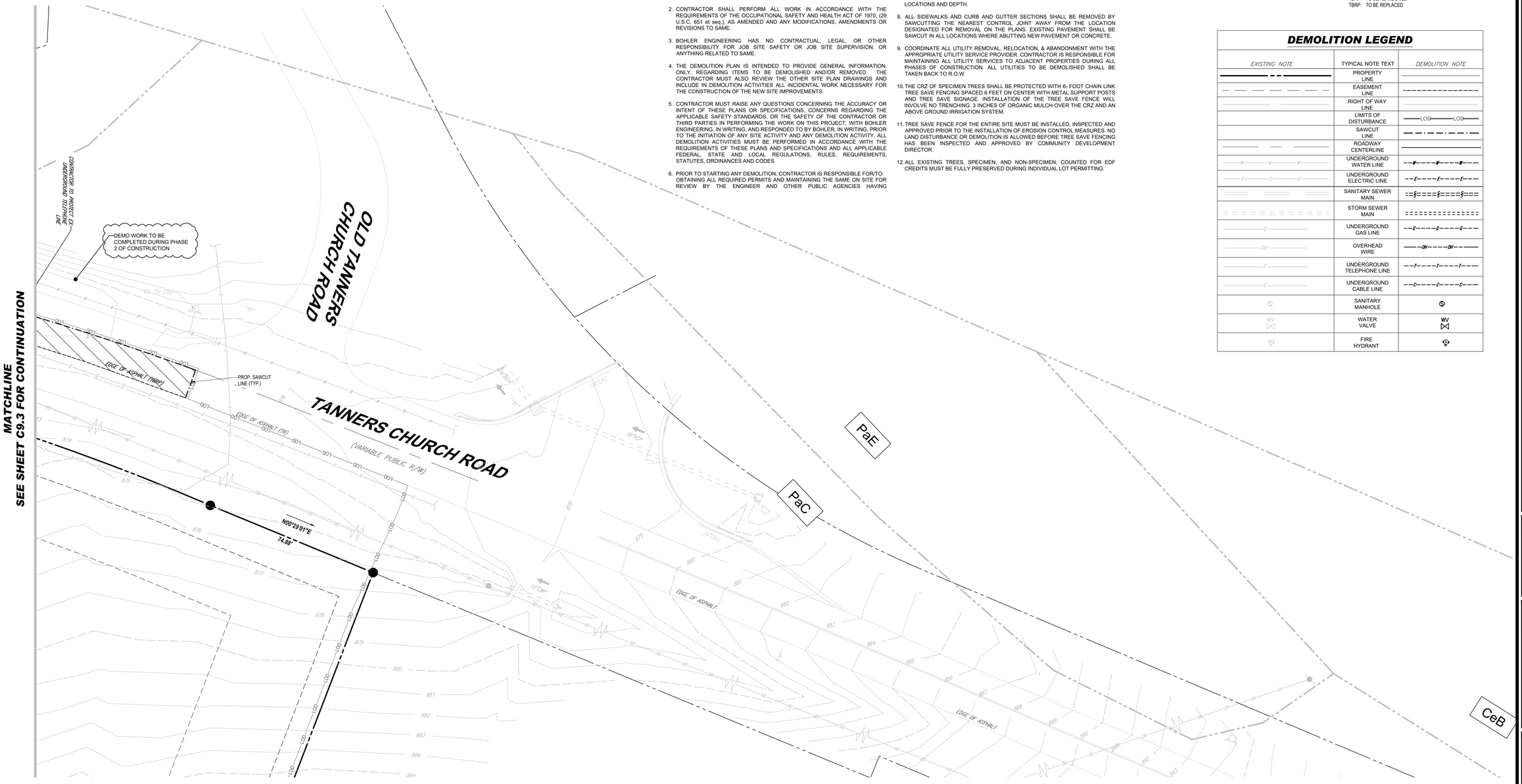
200 GALLERIA PARKWAY, SUITE 900
ATLANTA, GA 30339
(404) 857-6165

ROADWAY DEMOLITION PLAN - TANNERS CHURCH
4443 OLD DUNN COURT
ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	1"=20'
PROJECT No: GA204012	
C9.3	1
SHEET NO.	REVISION



GENERAL DEMOLITION NOTES:

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   ALTA SURVEY BY GEOSURVEY
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   PROJECT NO.: 20206563
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7. THE LOCATION OF EXISTING UNDERGROUND UTILITIES AS INDICATED ON THE PLAN IS APPROXIMATE. FIELD LOCATE ALL UNDERGROUND EXISTING UTILITIES LOCATED IN THE AREA OF WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CALL "GA 811" PRIOR TO CONSTRUCTION FOR ASSISTANCE IN LOCATING EXISTING UNDERGROUND UTILITIES. SUBSURFACE FEATURES ARE SHOWN IN AN APPROXIMATE LOCATION. CONTRACTOR IS RESPONSIBLE FOR SUBSURFACE UTILITY EXPLORATION TO DETERMINE UNDERGROUND UTILITY LOCATIONS AND DEPTH.

8. ALL SIDEWALKS AND CURB AND GUTTER SECTIONS SHALL BE REMOVED BY SAWCUTTING THE NEAREST CONTROL JOINT AWAY FROM THE LOCATION DESIGNATED FOR REMOVAL ON THE PLANS. EXISTING PAVEMENT SHALL BE SAWCUT IN ALL LOCATIONS WHERE ABUTTING NEW PAVEMENT OR CONCRETE.

9. COORDINATE ALL UTILITY REMOVAL, RELOCATION, & ABANDONMENT WITH THE APPROPRIATE UTILITY SERVICE PROVIDER. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL UTILITY SERVICES TO ADJACENT PROPERTIES DURING ALL PHASES OF CONSTRUCTION. ALL UTILITIES TO BE DEMOLISHED SHALL BE TAKEN BACK TO R.O.W.

10. THE CRZ OF SPECIMEN TREES SHALL BE PROTECTED WITH 6- FOOT CHAIN LINK TREE SAVE FENCING SPACED 6 FEET ON CENTER WITH METAL SUPPORT POSTS AND TREE SAVE SIGNAGE. INSTALLATION OF THE TREE SAVE FENCE WILL INVOLVE NO TRENCHING. 3 INCHES OF ORGANIC MULCH OVER THE CRZ AND AN ABOVE GROUND IRRIGATION SYSTEM.

11. TREE SAVE FENCE FOR THE ENTIRE SITE MUST BE INSTALLED, INSPECTED AND APPROVED PRIOR TO THE INSTALLATION OF EROSION CONTROL MEASURES. NO LAND DISTURBANCE OR DEMOLITION IS ALLOWED BEFORE TREE SAVE FENCING HAS BEEN INSPECTED AND APPROVED BY COMMUNITY DEVELOPMENT DIRECTOR.

12. ALL EXISTING TREES, SPECIMEN, AND NON-SPECIMEN, COUNTED FOR EDF CREDITS MUST BE FULLY PRESERVED DURING INDIVIDUAL LOT PERMITTING.

CCWA GENERAL NOTES:

1. PLANS INDICATED PREPARED USING THE FOLLOWING STATE PLAN COORDINATION SYSTEM. HORIZONTAL: NAD 83, VERTICAL: NAVD 88, GRID ZONE: GA WEST 1002.

ANNOTATION LEGEND:

TBR: TO BE REMOVED
TR: TO REMAIN
TBRL: TO BE RELOCATED
TBA: TO BE ABANDONED
TBRP: TO BE REPLACED

DEMOLITION LEGEND

EXISTING NOTE	TYPICAL NOTE TEXT	DEMOLITION NOTE
	PROPERTY LINE	
	EASEMENT LINE	
	RIGHT OF WAY LINE	
	LIMITS OF DISTURBANCE	LOD LOD
	SAWCUT LINE	
	ROADWAY CENTERLINE	
W W W	UNDERGROUND WATER LINE	W W W
E E E	UNDERGROUND ELECTRIC LINE	E E E
	SANITARY SEWER MAIN	S S S
	STORM SEWER MAIN	
G	UNDERGROUND GAS LINE	G G G
OH	OVERHEAD WIRE	OH OH
T	UNDERGROUND TELEPHONE LINE	T T T
C	UNDERGROUND CABLE LINE	C C C
	SANITARY MANHOLE	
WV	WATER VALVE	WV
	FIRE HYDRANT	

MAPPED SOIL TYPES

SOIL TYPE	DESCRIPTION	HYDROLOGIC SOIL GROUP
AmC	APPLING SANDY LOAM	B
CA	CARTECAY LOAM	B
CeB	CECIL SANDY LOAM	B
PaC	PACOLET SANDY LOAM, 6 TO 10 PERCENT SLOPES	B
PaE	PACOLET SANDY LOAM, 10 TO 25 PERCENT SLOPES	B
TAKEN FROM: USDA, NRCS WEB SOIL SURVEY FOR CLAYTON COUNTY, GEORGIA		

SITE DATA CHECKLIST

TOTAL PARCEL AREA	± 6.64 AC
ZONING	HEAVY INDUSTRIAL; HIGHWAY 42 OVERLAY
ON-SITE DISTURBED AREA	± 6.64 AC
OFF-SITE DISTURBED AREA	± 3.45 AC
TOTAL DISTURBED AREA	± 10.09 AC

OWNER/DEVELOPER

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY S.E.,
SUITE 900
ATLANTA, GA 30339
TIM WILLIAMS:
(404) 857-6165

20 10 5 0 20
1"= 20'

NO.	BY	DATE
1	NF	10/27/22

PHASE 2 BID PLANS
REVISION

BOHLER
211 PERIMETER CENTER PKWY NE,
SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
GA@BohlerEng.com

FOR BIDDING PURPOSES ONLY

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RaceTrac

RACETRAC PETROLEUM, INC.
200 GALLERIA PKWY SE, SUITE 900
ATLANTA, GA 30339
(404) 857-6165

ROADWAY DEMOLITION PLAN - TANNERS CHURCH

4443 OLD DUNN COURT

ELLENWOOD, GA 30294

DRAWN BY	DW / NF
DATE	10/27/2022
SCALE	1"=20'
PROJECT No: GA204012	
C9.4	1
SHEET NO.	REVISION

GENERAL DEMOLITION NOTES:

1. THIS PLAN REFERENCES DOCUMENTS AND INFORMATION BY:

   ALTA SURVEY BY GEOSURVEY
   1660 BARNES MILL ROAD
   MARIETTA, GA 30062
   PROJECT NO.: 20206563
   DATED: 05/19/2020

2. CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, (29 U.S.C. 651 et seq.), AS AMENDED AND ANY MODIFICATIONS, AMENDMENTS OR REVISIONS TO SAME.

3. BOHLER ENGINEERING HAS NO CONTRACTUAL, LEGAL, OR OTHER RESPONSIBILITY FOR JOB SITE SAFETY OR JOB SITE SUPERVISION, OR ANYTHING RELATED TO SAME.

4. THE DEMOLITION PLAN IS INTENDED TO PROVIDE GENERAL INFORMATION, ONLY, REGARDING ITEMS TO BE DEMOLISHED AND/OR REMOVED. THE CONTRACTOR MUST ALSO REVIEW THE OTHER SITE PLAN DRAWINGS AND INCLUDE IN DEMOLITION ACTIVITIES ALL INCIDENTAL WORK NECESSARY FOR THE CONSTRUCTION OF THE NEW SITE IMPROVEMENTS.

5. CONTRACTOR MUST RAISE ANY QUESTIONS CONCERNING THE ACCURACY OR INTENT OF THESE PLANS OR SPECIFICATIONS, CONCERNS REGARDING THE APPLICABLE SAFETY STANDARDS, OR THE SAFETY OF THE CONTRACTOR OR THIRD PARTIES IN PERFORMING THE WORK ON THIS PROJECT, WITH BOHLER ENGINEERING, IN WRITING, AND RESPONDED TO BY BOHLER, IN WRITING, PRIOR TO THE INITIATION OF ANY SITE ACTIVITY AND ANY DEMOLITION ACTIVITY. ALL DEMOLITION ACTIVITIES MUST BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS AND ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, RULES, REQUIREMENTS, STATUTES, ORDINANCES AND CODES.

6. PRIOR TO STARTING ANY DEMOLITION, CONTRACTOR IS RESPONSIBLE FOR/TO:

   OBTAINING ALL REQUIRED PERMITS AND MAINTAINING THE SAME ON SITE FOR REVIEW BY THE ENGINEER AND OTHER PUBLIC AGENCIES HAVING JURISDICTION THROUGHOUT THE DURATION OF THE PROJECT, SITE WORK AND DEMOLITION WORK.

7. THE LOCATION OF EXISTING UNDERGROUND UTILITIES AS INDICATED ON THE PLAN IS APPROXIMATE. FIELD LOCATE ALL UNDERGROUND EXISTING UTILITIES LOCATED IN THE AREA OF WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CALL "GA 811" PRIOR TO CONSTRUCTION FOR ASSISTANCE IN LOCATING EXISTING UNDERGROUND UTILITIES. SUBSURFACE FEATURES ARE SHOWN IN AN APPROXIMATE LOCATION. CONTRACTOR IS RESPONSIBLE FOR SUBSURFACE UTILITY EXPLORATION TO DETERMINE UNDERGROUND UTILITY LOCATIONS AND DEPTH.

8. ALL SIDEWALKS AND CURB AND GUTTER SECTIONS SHALL BE REMOVED BY SAWCUTTING THE NEAREST CONTROL JOINT AWAY FROM THE LOCATION DESIGNATED FOR REMOVAL ON THE PLANS. EXISTING PAVEMENT SHALL BE SAWCUT IN ALL LOCATIONS WHERE ABUTTING NEW PAVEMENT OR CONCRETE.

9. COORDINATE ALL UTILITY REMOVAL, RELOCATION, & ABANDONMENT WITH THE APPROPRIATE UTILITY SERVICE PROVIDER. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL UTILITY SERVICES TO ADJACENT PROPERTIES DURING ALL PHASES OF CONSTRUCTION. ALL UTILITIES TO BE DEMOLISHED SHALL BE TAKEN BACK TO R.O.W.

10. THE CRZ OF SPECIMEN TREES SHALL BE PROTECTED WITH 6- FOOT CHAIN LINK TREE SAVE FENCING SPACED 6 FEET ON CENTER WITH METAL SUPPORT POSTS AND TREE SAVE SIGNAGE. INSTALLATION OF THE TREE SAVE FENCE WILL INVOLVE NO TRENCHING. 3 INCHES OF ORGANIC MULCH OVER THE CRZ AND AN ABOVE GROUND IRRIGATION SYSTEM.

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12. ALL EXISTING TREES, SPECIMEN, AND NON-SPECIMEN, COUNTED FOR EDF CREDITS MUST BE FULLY PRESERVED DURING INDIVIDUAL LOT PERMITTING.

CCWA GENERAL NOTES:

1. PLANS INDICATED PREPARED USING THE FOLLOWING STATE PLAN COORDINATION SYSTEM. HORIZONTAL: NAD 83, VERTICAL: NAVD 88, GRID ZONE: GA WEST 1002.

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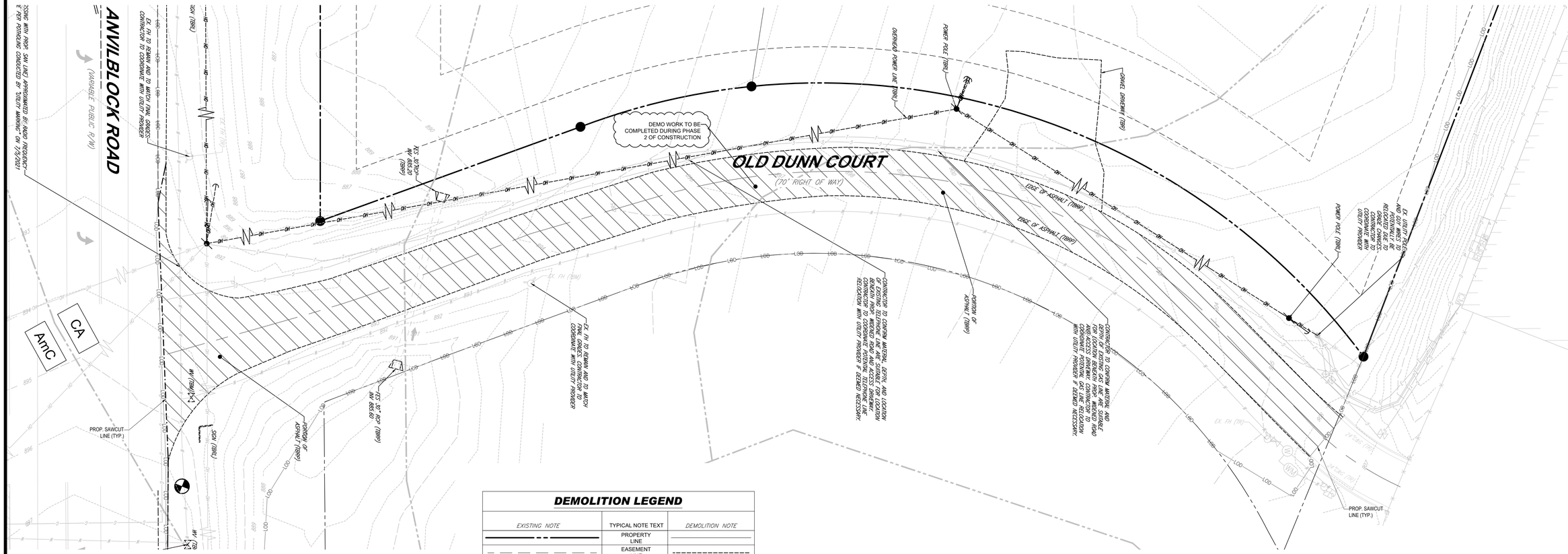
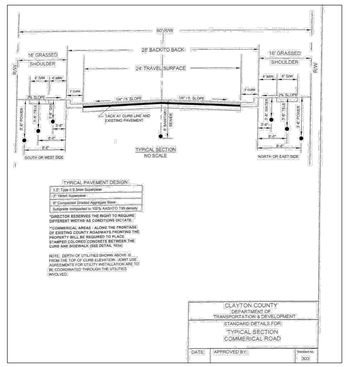

ANVILBLOCK ROAD
(VARIABLE PUBLIC R/W)
SAWCUT WITH ROPE SAW LINE APPROVIMATED BY FIELD TECHNICIAN PRIOR TO PAVING CONDUCTED BY UTILITY MARKING ON 7/3/2021
EX. FH TO REMAIN AND TO MATCH FINAL GRADES CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER
EX. 20" RCP (TBR)
EX. 30"X50" RCP (TBR) INV. 883.20
OLD DUNN COURT
(70' RIGHT OF WAY)
DEMO WORK TO BE COMPLETED DURING PHASE 2 OF CONSTRUCTION
OVERHEAD POWER LINE (TBR)
POWER POLE (TBR)
CONCRETE DRIVEWAY (TBR)
EDGE OF ASPHALT (TBRP)
POWER POLE (TBR)
CONTRACTOR TO COVERAGE MEETING, DEPTH OF EXISTING GAS LINE ARE SUITABLE AND ACCESS DRIVEWAY CONTRACTOR TO COORDINATE ROUTING GAS LINE RELOCATION WITH UTILITY PROVIDER IF CONFLICT NECESSARY
CONTRACTOR TO COVERAGE MEETING, AND VERIFY DEPTH OF EXISTING GAS LINE ARE SUITABLE AND ACCESS DRIVEWAY CONTRACTOR TO COORDINATE ROUTING GAS LINE RELOCATION WITH UTILITY PROVIDER IF CONFLICT NECESSARY
EX. FH TO REMAIN AND TO MATCH FINAL GRADES CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER
EX. 30"X50" RCP (TBR) INV. 885.60
EDGE OF ASPHALT (TBRP)
PROP. SAWCUT LINE (TYP.)
EX. 24" RCP (TBR)
EX. 20" RCP (TBR)
EX. 30" RCP (TBR)
EX. 24" RCP (TBR)
EX. 20



LEGEND

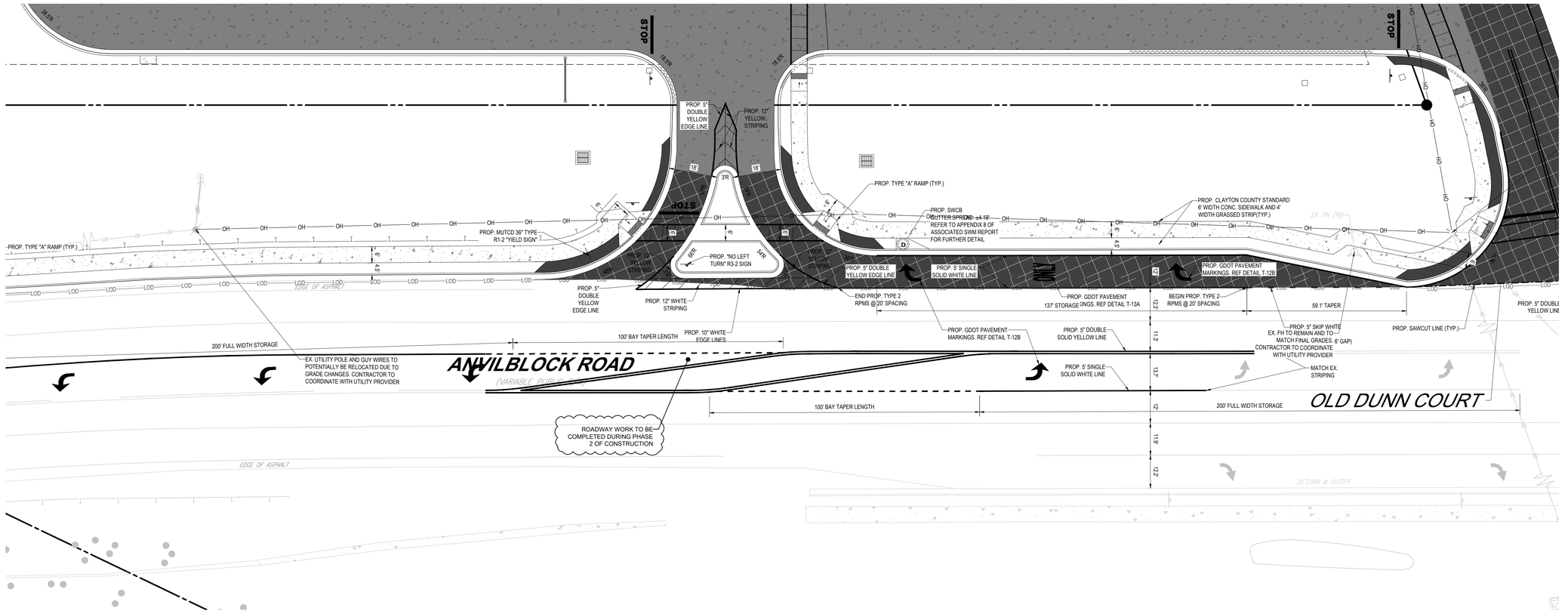
- PROPOSED 4" THICK CLAYTON COUNTY STANDARD CONCRETE SIDEWALK (SEE DETAIL THIS SHEET)
- PROPOSED 6" THICK CONCRETE PAVING WITH #3 REBARS @ 16" OC EACH WAY WITH 14" LAP SPLICE. (SEE DETAIL THIS SHEET)
- PROPOSED 8" THICK CONCRETE PAVING WITH #3 REBARS @ 16" OC EACH WAY WITH 14" LAP SPLICE. (SEE DETAIL THIS SHEET)
- PROPOSED 8" THICK CONCRETE PAVING FOR DUMPSTER & TANK PAVEMENT WITH #6 REBARS @ 9" OC EACH WAY WITH 24" LAP SPLICE. (SEE DETAIL THIS SHEET)
- PROPOSED 8" THICK CONCRETE CURB BACKING. (SEE DETAIL 3 SHEET SD1)
- PROPOSED CLAYTON COUNTY STANDARD DUTY ASPHALT PAVING (SEE DETAIL THIS SHEET)

GENERAL SITE NOTES

1. OWNERS:
   COLLINS & ASSOC
   P O BOX 1025
   FOREST PARK, GA 30298
2. EQUITABLE DEVELOPER/APPLICANT:
   RACETRAC PETROLEUM, INC.
   200 GALLERIA PARKWAY S.E.,
   SUITE 900
   ATLANTA, GA 30339
   CONTACT: TIM WILLIAMS
   PHONE: (404) 857-6165
3. ALL SIDEWALKS, STRIPING AND SIGNAGE TO BE ADA AND CODE COMPLIANT.
4. ZONING DATA:
   PARCEL NUMBERS: 12236C B004 AND 12236C B006
   GROSS LOT AREA: 6.64 AC
   EXISTING ZONING: HI (HEAVY INDUSTRIAL)
   EXISTING USE: VACANT LAND
   PROPOSED USE: FUELING CENTER (PERMITTED)
5. THIS PLAN IS BASED ON THE FOLLOWING:
   ALTA SURVEY BY GEOSURVEY
   1660 BARNES MILL ROAD
   MARIETTA, GA 30062
   PROJECT NO.: 20206563
   DATED: 05/19/2020
6. THE IMPROVEMENTS FOR THIS PROJECT INCLUDE THE CONSTRUCTION OF A RACETRAC TRAVEL CENTER STRUCTURE, PARKING FACILITIES, UNDERGROUND UTILITIES, LANDSCAPING, STORMWATER QUALITY, AND DETENTION REQUIREMENTS.
7. PARKING LOTS SHALL BE MAINTAINED IN GOOD CONDITION FREE OF POTHOLES, WEEDS, DUST, TRASH, AND DEBRIS.
8. IF ANY STRUCTURE THAT LIES WITHIN A 100-YEAR FLOODPLAIN OR WITH A DETENTION POND WILL BE ELEVATED SUCH THAT THE LOWEST FINISHED FLOOR ELEVATION SHALL BE NO LESS THAN 2' ABOVE THE 100-YEAR WATER SURFACE ELEVATION.
9. NO GRADING IS DONE WITHIN THE 100-YEAR FLOODPLAIN ELEVATION.
10. ALL TRAFFIC CONTROL SIGNS THAT ARE REMOVED OR DAMAGED MUST BE REINSTALLED OR REPLACED. ALL SIGNS MUST BE REINSTALLED TO THE STANDARDS IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

CCWA GENERAL NOTES:

1. PLANS INDICATED PREPARED USING THE FOLLOWING STATE PLAN COORDINATION SYSTEM. HORIZONTAL: NAD 83, VERTICAL: NAVD 88, GRID ZONE: GA WEST 1002.



SITE DATA CHECKLIST

TOTAL PARCEL AREA	± 6.64 AC
ZONING	HEAVY INDUSTRIAL; HIGHWAY 42 OVERLAY
ON-SITE DISTURBED AREA	± 6.64 AC
OFF-SITE DISTURBED AREA	± 3.45 AC
TOTAL DISTURBED AREA	± 10.09 AC

OWNER/DEVELOPER

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY S.E.,
SUITE 900
ATLANTA, GA 30339
TIM WILLIAMS:
(404) 857-6165

20 10 5 0 20
1"= 20'

NO.	REVISION	BY	DATE
1	PHASE 2 BID PLANS	NF	10/27/22

BOHLER
211 PERIMETER CENTER PKWY NE,
SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
GA@BohlerEng.com

FOR BIDDING PURPOSES ONLY

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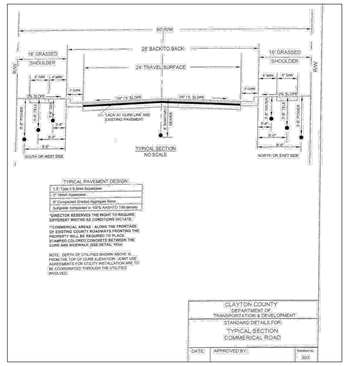
RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY SE, SUITE 900
ATLANTA, GA 30339
(404) 857-6165

ROADWAY PAVING & STRIPING PLAN - ANVILBLOCK

4443 OLD DUNN COURT

ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	1"=20'
PROJECT No: GA204012	
C9.6	1
SHEET NO.	REVISION



LEGEND

- PROPOSED 4" THICK CLAYTON COUNTY STANDARD CONCRETE SIDEWALK (SEE DETAIL THIS SHEET)
- PROPOSED 6" THICK CONCRETE PAVING WITH #3 REBARS @ 16" OC EACH WAY WITH 14" LAP SPLICE. (SEE DETAIL THIS SHEET)
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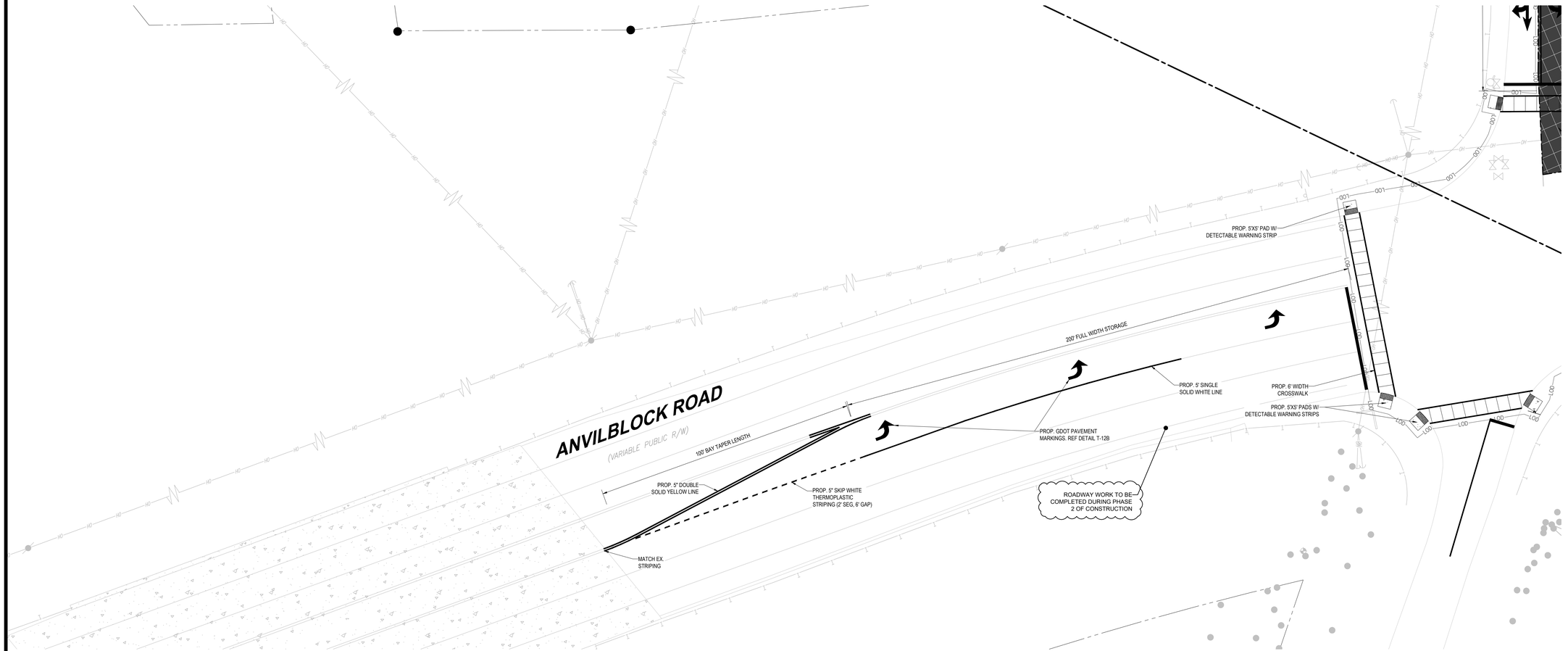
- PROPOSED 8" THICK CONCRETE CURB BACKING. (SEE DETAIL 3 SHEET SD1)
- PROPOSED CLAYTON COUNTY STANDARD DUTY ASPHALT PAVING (SEE DETAIL THIS SHEET)

GENERAL SITE NOTES

1. OWNERS:
   COLLINS & ASSOC
   P O BOX 1025
   FOREST PARK, GA 30298
2. EQUITABLE DEVELOPER/APPLICANT:
   RACETRAC PETROLEUM, INC.
   200 GALLERIA PARKWAY S.E.,
   SUITE 900
   ATLANTA, GA 30339
   CONTACT: TIM WILLIAMS
   PHONE: (404) 857-6165
3. ALL SIDEWALKS, STRIPING AND SIGNAGE TO BE ADA AND CODE COMPLIANT.
4. ZONING DATA:
   PARCEL NUMBERS: 12236C B004 AND 12236C B006
   GROSS LOT AREA: 6.64 AC
   EXISTING ZONING: HI (HEAVY INDUSTRIAL)
   EXISTING USE: VACANT LAND
   PROPOSED USE: FUELING CENTER (PERMITTED)
5. THIS PLAN IS BASED ON THE FOLLOWING:
   ALTA SURVEY BY GEOSURVEY
   1660 BARNES MILL ROAD
   MARIETTA, GA 30062
   PROJECT NO.: 20206563
   DATED: 05/19/2020
6. THE IMPROVEMENTS FOR THIS PROJECT INCLUDE THE CONSTRUCTION OF A RACETRAC TRAVEL CENTER STRUCTURE, PARKING FACILITIES, UNDERGROUND UTILITIES, LANDSCAPING, STORMWATER QUALITY, AND DETENTION REQUIREMENTS.
7. PARKING LOTS SHALL BE MAINTAINED IN GOOD CONDITION FREE OF POTHOLES, WEEDS, DUST, TRASH, AND DEBRIS.
8. IF ANY STRUCTURE THAT LIES WITHIN A 100-YEAR FLOODPLAIN OR WITH A DETENTION POND WILL BE ELEVATED SUCH THAT THE LOWEST FINISHED FLOOR ELEVATION SHALL BE NO LESS THAN 2' ABOVE THE 100-YEAR WATER SURFACE ELEVATION.
9. NO GRADING IS DONE WITHIN THE 100-YEAR FLOODPLAIN ELEVATION.
10. ALL TRAFFIC CONTROL SIGNS THAT ARE REMOVED OR DAMAGED MUST BE REINSTALLED OR REPLACED. ALL SIGNS MUST BE REINSTALLED TO THE STANDARDS IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

CCWA GENERAL NOTES:

1. PLANS INDICATED PREPARED USING THE FOLLOWING STATE PLAN COORDINATION SYSTEM. HORIZONTAL: NAD 83, VERTICAL: NAVD 88, GRID ZONE: GA WEST 1002.



SITE DATA CHECKLIST

TOTAL PARCEL AREA	± 6.64 AC
ZONING	HEAVY INDUSTRIAL; HIGHWAY 42 OVERLAY
ON-SITE DISTURBED AREA	± 6.64 AC
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TOTAL DISTURBED AREA	± 10.09 AC

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ATLANTA, GA 30339
TIM WILLIAMS:
(404) 857-6165

20 10 5 0 20
1"= 20'

NO.	REVISION	BY	DATE
1	PHASE 2 BID PLANS	NF	10/27/22

BOHLER

211 PERIMETER CENTER PKWY NE,
SUITE 425
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RaceTrac

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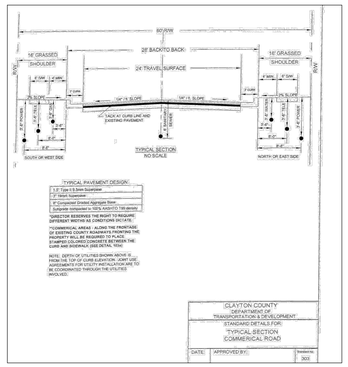
200 GALLERIA PARKWAY SE, SUITE 900
ATLANTA, GA 30339
(404) 857-6165

ROADWAY PAVING & STRIPING PLAN - ANVILBLOCK WEST

4443 OLD DUNN COURT

ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	1"=20'
PROJECT No: GA204012	
C9.7	1
SHEET NO.	REVISION



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GENERAL SITE NOTES

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   P O BOX 1025
   FOREST PARK, GA 30298
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   RACETRAC PETROLEUM, INC.
   200 GALLERIA PARKWAY S.E.,
   SUITE 900
   ATLANTA, GA 30339
   CONTACT: TIM WILLIAMS
   PHONE: (404) 857-6165
3. ALL SIDEWALKS, STRIPING AND SIGNAGE TO BE ADA AND CODE COMPLIANT.
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   PARCEL NUMBERS: 12236C B004 AND 12236C B006
   GROSS LOT AREA: 6.64 AC
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   EXISTING USE: VACANT LAND
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   ALTA SURVEY BY GEOSURVEY
   1660 BARNES MILL ROAD
   MARIETTA, GA 30062
   PROJECT NO.: 20206563
   DATED: 05/19/2020
6. THE IMPROVEMENTS FOR THIS PROJECT INCLUDE THE CONSTRUCTION OF A RACETRAC TRAVEL CENTER STRUCTURE, PARKING FACILITIES, UNDERGROUND UTILITIES, LANDSCAPING, STORMWATER QUALITY, AND DETENTION REQUIREMENTS.
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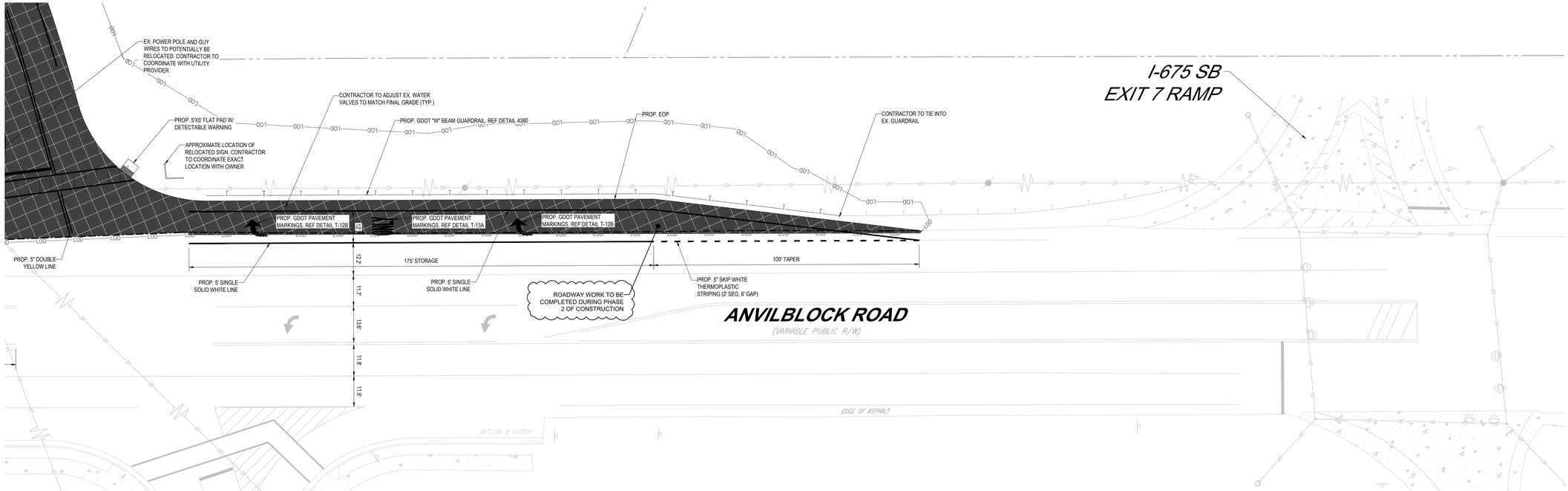
8. IF ANY STRUCTURE THAT LIES WITHIN A 100-YEAR FLOODPLAIN OR WITH A DETENTION POND WILL BE ELEVATED SUCH THAT THE LOWEST FINISHED FLOOR ELEVATION SHALL BE NO LESS THAN 2' ABOVE THE 100-YEAR WATER SURFACE ELEVATION.
9. NO GRADING IS DONE WITHIN THE 100-YEAR FLOODPLAIN ELEVATION.
10. ALL TRAFFIC CONTROL SIGNS THAT ARE REMOVED OR DAMAGED MUST BE REINSTALLED OR REPLACED. ALL SIGNS MUST BE REINSTALLED TO THE STANDARDS IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

CCWA GENERAL NOTES:

1. PLANS INDICATED PREPARED USING THE FOLLOWING STATE PLAN COORDINATION SYSTEM. HORIZONTAL: NAD 83, VERTICAL: NAVD 88, GRID ZONE: GA WEST 1002.



SITE DATA CHECKLIST

TOTAL PARCEL AREA	± 6.64 AC
ZONING	HEAVY INDUSTRIAL; HIGHWAY 42 OVERLAY
ON-SITE DISTURBED AREA	± 6.64 AC
OFF-SITE DISTURBED AREA	± 3.45 AC
TOTAL DISTURBED AREA	± 10.09 AC

OWNER/DEVELOPER

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY S.E.,
SUITE 900
ATLANTA, GA 30339
TIM WILLIAMS:
(404) 857-6165

20 10 5 0 20
1"= 20'

NO.	REVISION	BY	DATE
1	PHASE 2 BID PLANS	NF	10/27/22

BOHLER
211 PERIMETER CENTER PKWY NE,
SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
GA@BohlerEng.com

FOR BIDDING PURPOSES ONLY

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RaceTrac

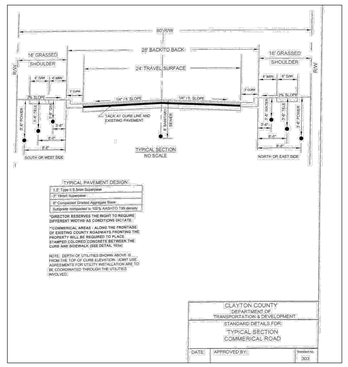
RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY SE, SUITE 900
ATLANTA, GA 30339
(404) 857-6165

ROADWAY PAVING & STRIPING PLAN - ANVILBLOCK RIGHT TURN

4443 OLD DUNN COURT

ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	1"=20'
PROJECT No: GA204012	
C9.8	1
SHEET NO.	REVISION



LEGEND

- PROPOSED 4" THICK CLAYTON COUNTY STANDARD CONCRETE SIDEWALK (SEE DETAIL THIS SHEET)
- PROPOSED 6" THICK CONCRETE PAVING WITH #3 REBARS @ 16" OC EACH WAY WITH 14" LAP SPLICE. (SEE DETAIL THIS SHEET)
- PROPOSED 8" THICK CONCRETE PAVING WITH #3 REBARS @ 16" OC EACH WAY WITH 14" LAP SPLICE. (SEE DETAIL THIS SHEET)
- PROPOSED 8" THICK CONCRETE PAVING FOR DUMPSTER & TANK PAVEMENT WITH #6 REBARS @ 9" OC EACH WAY WITH 24" LAP SPLICE. (SEE DETAIL THIS SHEET)
- PROPOSED 8" THICK CONCRETE CURB BACKING. (SEE DETAIL 3 SHEET SD1)
- PROPOSED CLAYTON COUNTY STANDARD DUTY ASPHALT PAVING (SEE DETAIL THIS SHEET)

GENERAL SITE NOTES

1. OWNERS:
   COLLINS & ASSOC
   P O BOX 1025
   FOREST PARK, GA 30298
2. EQUITABLE DEVELOPER/APPLICANT:
   RACETRAC PETROLEUM, INC.
   200 GALLERIA PARKWAY S.E.,
   SUITE 900
   ATLANTA, GA 30339
   CONTACT: TIM WILLIAMS
   PHONE: (404) 857-6165
3. ALL SIDEWALKS, STRIPING AND SIGNAGE TO BE ADA AND CODE COMPLIANT.
4. ZONING DATA:
   PARCEL NUMBERS: 12236C B004 AND 12236C B006
   GROSS LOT AREA: 6.64 AC
   EXISTING ZONING: HI (HEAVY INDUSTRIAL)
   EXISTING USE: VACANT LAND
   PROPOSED USE: FUELING CENTER (PERMITTED)
5. THIS PLAN IS BASED ON THE FOLLOWING:
   ALTA SURVEY BY GEOSURVEY
   1660 BARNES MILL ROAD
   MARIETTA, GA 30062
   PROJECT NO.: 20206563
   DATED: 05/19/2020
6. THE IMPROVEMENTS FOR THIS PROJECT INCLUDE THE CONSTRUCTION OF A RACETRAC TRAVEL CENTER STRUCTURE, PARKING FACILITIES, UNDERGROUND UTILITIES, LANDSCAPING, STORMWATER QUALITY, AND DETENTION REQUIREMENTS.
7. PARKING LOTS SHALL BE MAINTAINED IN GOOD CONDITION FREE OF POTHOLES, WEEDS, DUST, TRASH, AND DEBRIS.
8. IF ANY STRUCTURE THAT LIES WITHIN A 100-YEAR FLOODPLAIN OR WITH A DETENTION POND WILL BE ELEVATED SUCH THAT THE LOWEST FINISHED FLOOR ELEVATION SHALL BE NO LESS THAN 2' ABOVE THE 100-YEAR WATER SURFACE ELEVATION.
9. NO GRADING IS DONE WITHIN THE 100-YEAR FLOODPLAIN ELEVATION.
10. ALL TRAFFIC CONTROL SIGNS THAT ARE REMOVED OR DAMAGED MUST BE REINSTALLED OR REPLACED. ALL SIGNS MUST BE REINSTALLED TO THE STANDARDS IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

CCWA GENERAL NOTES:

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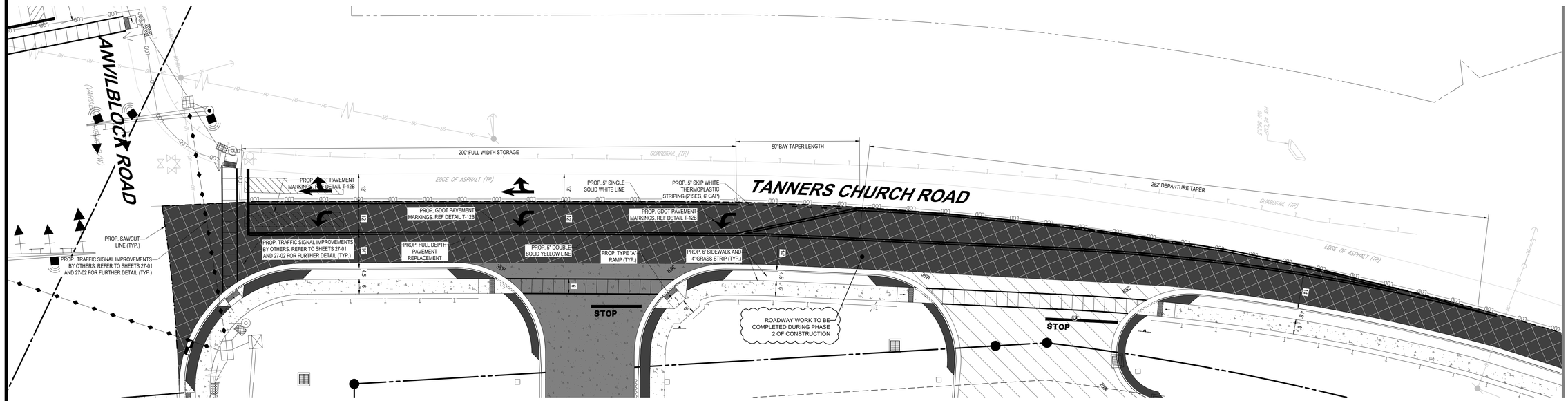

MATCHLINE SEE SHEET C9.10 FOR CONTINUATION

SITE DATA CHECKLIST

TOTAL PARCEL AREA	± 6.64 AC
ZONING	HEAVY INDUSTRIAL; HIGHWAY 42 OVERLAY
ON-SITE DISTURBED AREA	± 6.64 AC
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TIM WILLIAMS:
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20 10 5 0 20
1"= 20'

NO.	DATE	BY	REVISION
1	10/27/22	NF	PHASE 2 BID PLANS

BOHLER
211 PERIMETER CENTER PKWY NE,
SUITE 425
ATLANTA, GEORGIA 30346
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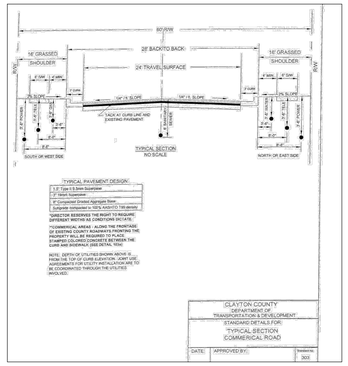
ATLANTA, GA 30339
(404) 857-6165

ROADWAY PAVING & STRIPING PLAN - TANNERS CHURCH

4443 OLD DUNN COURT

ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	1"=20'
PROJECT No: GA204012	
C9.9	1
SHEET NO.	REVISION



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GENERAL SITE NOTES

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2. EQUITABLE DEVELOPER/APPLICANT:
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   ATLANTA, GA 30339
   CONTACT: TIM WILLIAMS
   PHONE: (404) 857-6165
3. ALL SIDEWALKS, STRIPING AND SIGNAGE TO BE ADA AND CODE COMPLIANT.
4. ZONING DATA:
   PARCEL NUMBERS: 12236C B004 AND 12236C B006
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   EXISTING ZONING: HI (HEAVY INDUSTRIAL)
   EXISTING USE: VACANT LAND
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SITE DATA CHECKLIST

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ZONING	HEAVY INDUSTRIAL; HIGHWAY 42 OVERLAY
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TOTAL DISTURBED AREA	± 10.09 AC

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20 10 5 0 20
1"= 20'

NO.	REVISION	BY	DATE
1	PHASE 2 BID PLANS	NF	10/27/22

BOHLER
211 PERIMETER CENTER PKWY NE, SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
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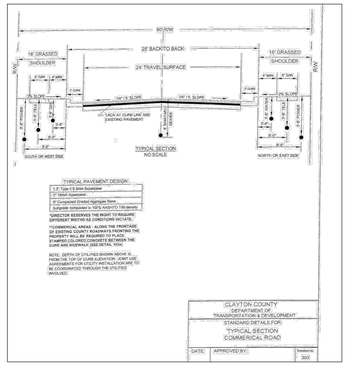
(404) 857-6165

ROADWAY PAVING & STRIPING PLAN - TANNERS CHURCH

4443 OLD DUNN COURT

ELLENWOOD, GA 30294

DRAWN BY	DW / NF
DATE	10/27/2022
SCALE	1"=20'
PROJECT No: GA204012	
C9.10	1
SHEET NO.	REVISION



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GENERAL SITE NOTES

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   P O BOX 1025
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2. EQUITABLE DEVELOPER/APPLICANT:
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   CONTACT: TIM WILLIAMS
   PHONE: (404) 857-6165
3. ALL SIDEWALKS, STRIPING AND SIGNAGE TO BE ADA AND CODE COMPLIANT.
4. ZONING DATA:
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   GROSS LOT AREA: 6.64 AC
   EXISTING ZONING: HI (HEAVY INDUSTRIAL)
   EXISTING USE: VACANT LAND
   PROPOSED USE: FUELING CENTER (PERMITTED)
5. THIS PLAN IS BASED ON THE FOLLOWING:
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   1660 BARNES MILL ROAD
   MARIETTA, GA 30062
   PROJECT NO.: 20206563
   DATED: 05/19/2020
6. THE IMPROVEMENTS FOR THIS PROJECT INCLUDE THE CONSTRUCTION OF A RACETRAC TRAVEL CENTER STRUCTURE, PARKING FACILITIES, UNDERGROUND UTILITIES, LANDSCAPING, STORMWATER QUALITY, AND DETENTION REQUIREMENTS.
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9. NO GRADING IS DONE WITHIN THE 100-YEAR FLOODPLAIN ELEVATION.
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CCWA GENERAL NOTES:

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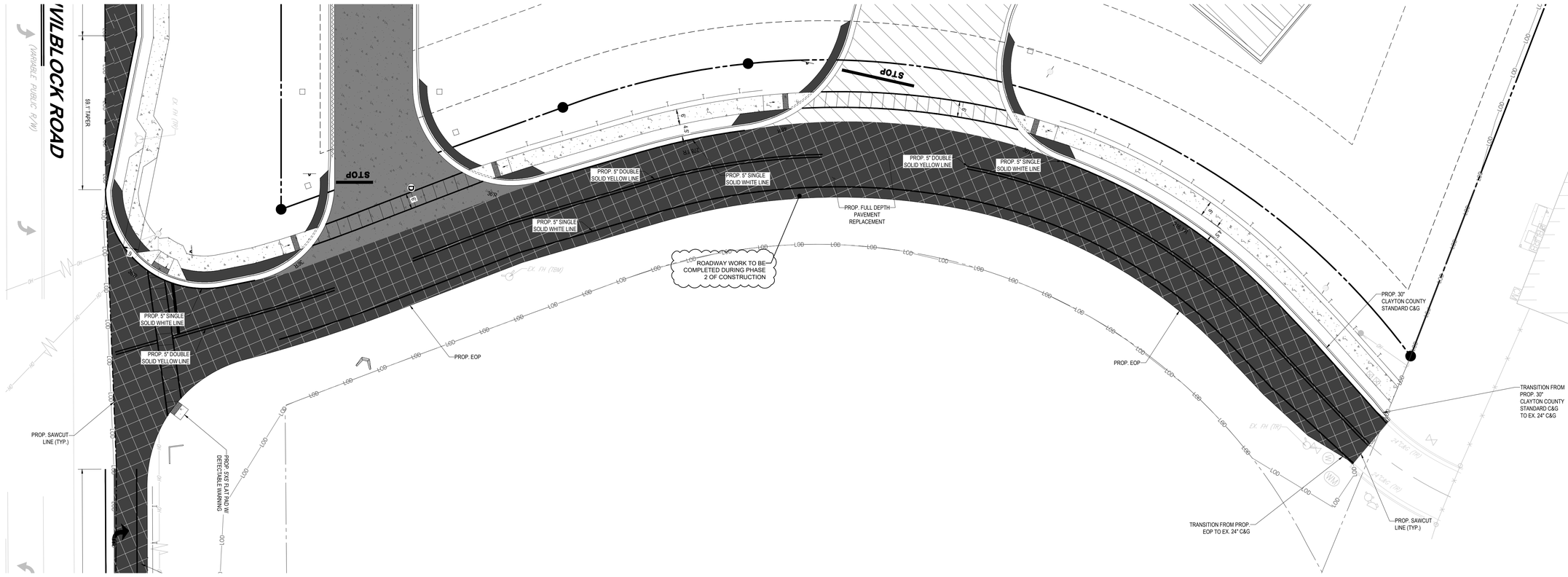

PAVING PLAN NOTES:

1. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" LATEST EDITION.
2. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE STATE DOT STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES. CONTRACTOR SHALL REVIEW ALL TRAFFIC CONTROL DEVICES WITH DOT PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS FOR PARKING STALLS, HANDICAPPED PARKING SYMBOLS, AND MISCELLANEOUS STRIPING WITHIN PARKING LOT AND AROUND BUILDING.
4. ALL HANDICAP RAMPING, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT OF 1990.
5. CONTRACTOR TO SUBMIT A JOINTING PLAN TO THE CONSTRUCTION MANAGER PRIOR TO THE BEGINNING OF ANY PAVING WORK.
6. PAVING CONTRACTOR TO COORDINATE WITH BUILDING CONTRACTOR ON THE CONSTRUCTION AND PAVING NEAR THE SCREENING WALLS AND THE DUMPSTER PADS.
7. ALL DISCREPANCIES FOUND BY CONTRACTOR RELATED TO UNDERGROUND UTILITIES OR OTHER APPURTENANCES SHALL BE RESOLVED TO THE SATISFACTION OF OWNER AND ENGINEER PRIOR TO PLACEMENT OF ANY PAVING. CONTRACTOR TO ENSURE POSITIVE DRAINAGE FROM THE PROPOSED BUILDINGS AND NO PONDING IN SUBGRADE OF AREAS TO BE PAVED, AND NOTIFY OWNER AND ENGINEER IF ANY DISCREPANCIES ARE FOUND PRIOR TO INSTALLATION OF ANY PAVING.
8. EXISTING MANHOLE TOPS, VALVE BOXES, ETC. ARE TO BE ADJUSTED AS REQUIRED TO MATCH PROPOSED GRADES. IF NECESSARY, RE-ADJUSTMENTS SHALL BE PERFORMED UPON COMPLETION OF PAVING AND FINE GRADING TO ENSURE A SMOOTH TRANSITION.
9. ALL PAVEMENT TO BE SLOPED FOR POSITIVE DRAINAGE.

SITE DATA CHECKLIST

TOTAL PARCEL AREA	± 6.64 AC
ZONING	HEAVY INDUSTRIAL; HIGHWAY 42 OVERLAY
ON-SITE DISTURBED AREA	± 6.64 AC
OFF-SITE DISTURBED AREA	± 3.45 AC
TOTAL DISTURBED AREA	± 10.09 AC

OWNER/DEVELOPER

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY S.E.,
SUITE 900
ATLANTA, GA 30339
TIM WILLIAMS:
(404) 857-6165

20 10 5 0 20
1"= 20'

NO.	REVISION	BY	DATE
1	PHASE 2 BID PLANS	NF	10/27/22

BOHLER
211 PERIMETER CENTER PKWY NE,
SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
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200 GALLERIA PARKWAY, SUITE 900
ATLANTA, GA 30339
(404) 857-6165

ROADWAY PAVING & STRIPING PLAN - OLD DUNN

4443 OLD DUNN COURT

ELLENWOOD, GA 30294

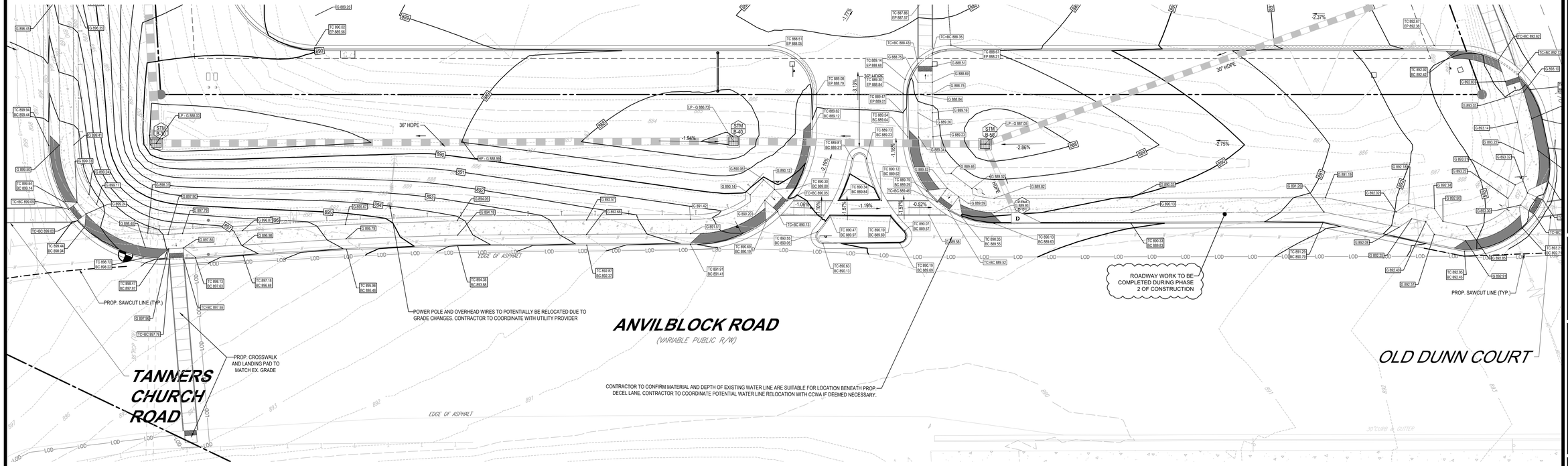
DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	1"=20'
PROJECT No: GA204012	
C9.11	1
SHEET NO.	REVISION

GRADING NOTES:

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
2. ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED. SLOPE MATTING IS TO BE USED FOR SLOPES STEEPER THAN 3:1.
3. EXISTING GRADE CONTOUR INTERVALS SHOWN AT 1'.
4. PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 1' INTERVALS.
5. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
6. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
7. TOPOGRAPHIC INFORMATION IS TAKEN FROM AN ALTA/NSPS SURVEY BY GEOSURVEY, LTD. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
8. ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH GOVERNING SPECIFICATIONS UNTIL A HEALTHY STAND OF VEGETATION IS OBTAINED.
9. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODE AND BE CONSTRUCTED TO SAME.
10. FOR FOUNDATION SUBSURFACE PREPARATION NOTE, REFERENCE GEOTECHNICAL REPORT.

CCWA GENERAL NOTES:

1. PLANS INDICATED PREPARED USING THE FOLLOWING STATE PLAN COORDINATION SYSTEM. HORIZONTAL: NAD 83, VERTICAL: NAVD 88, GRID ZONE: GA WEST 1002.



SITE DATA CHECKLIST	
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ZONING	HEAVY INDUSTRIAL; HIGHWAY 42 OVERLAY
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TIM WILLIAMS:
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20 10 5 0 20
1"= 20'

NO.	BY	DATE
1	NF	10/27/22

PHASE 2 BID PLANS
REVISION

BOHLER
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(GC) 200 GALLERIA PKWY SE, SUITE 900
ATLANTA, GA 30339
(404) 857-6165

ROADWAY GRADING PLAN - ANVILBLOCK

4443 OLD DUNN COURT

ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	1"=20'
PROJECT No: GA204012	
C9.12	1
SHEET NO.	REVISION

GRADING NOTES:

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
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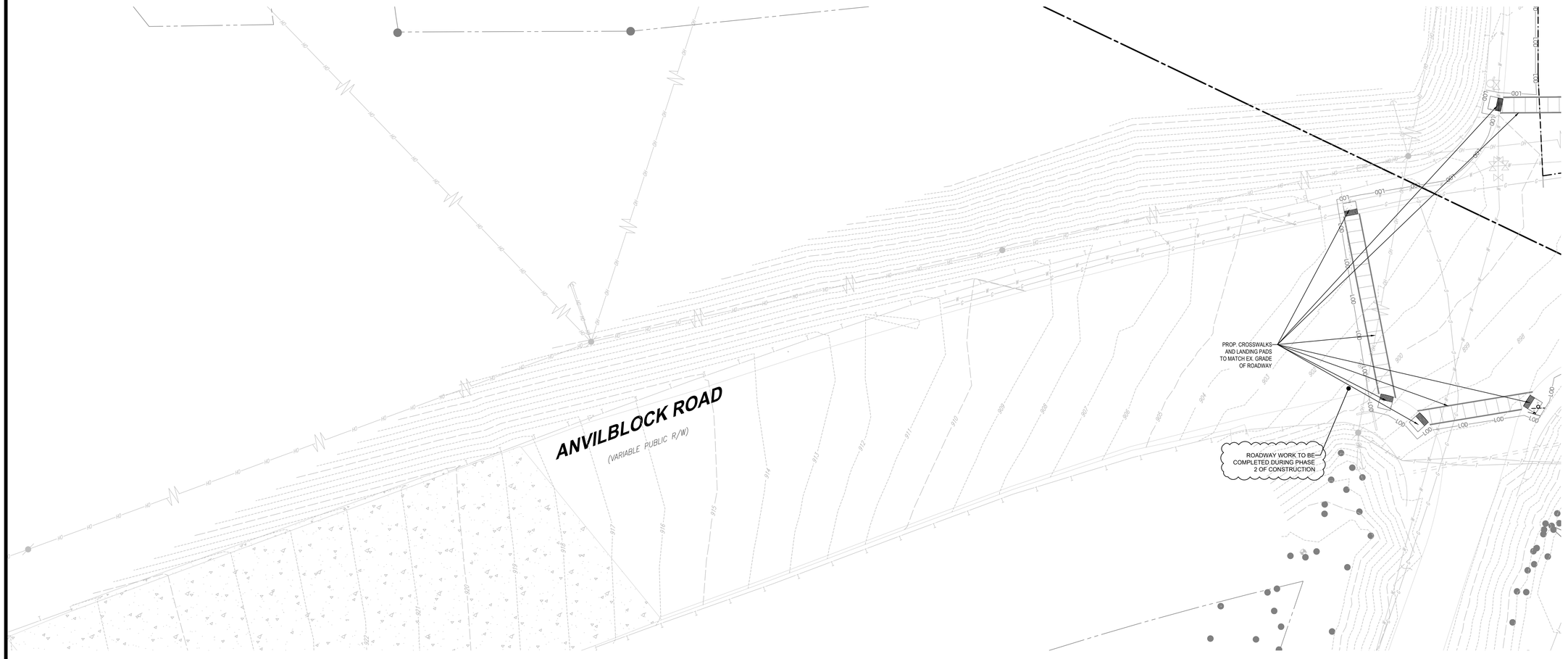
8. ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH GOVERNING SPECIFICATIONS UNTIL A HEALTHY STAND OF VEGETATION IS OBTAINED.
9. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODE AND BE CONSTRUCTED TO SAME.
10. FOR FOUNDATION SUBSURFACE PREPARATION NOTE, REFERENCE GEOTECHNICAL REPORT.

CCWA GENERAL NOTES:

1. PLANS INDICATED PREPARED USING THE FOLLOWING STATE PLAN COORDINATION SYSTEM. HORIZONTAL: NAD 83, VERTICAL: NAVD 88, GRID ZONE: GA WEST 1002.



SITE DATA CHECKLIST	
TOTAL PARCEL AREA	± 6.64 AC
ZONING	HEAVY INDUSTRIAL; HIGHWAY 42 OVERLAY
ON-SITE DISTURBED AREA	± 6.64 AC
OFF-SITE DISTURBED AREA	± 3.45 AC
TOTAL DISTURBED AREA	± 10.09 AC

OWNER/DEVELOPER

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY S.E.,
SUITE 900
ATLANTA, GA 30339
TIM WILLIAMS:
(404) 857-6165

20 10 5 0 20
1"= 20'

NO.	BY	DATE
1	NF	10/27/22

PHASE 2 BID PLANS
REVISION

BOHLER
211 PERIMETER CENTER PKWY NE,
SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
GA@BohlerEng.com

FOR BIDDING PURPOSES ONLY

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RaceTrac

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY SE, SUITE 900
ATLANTA, GA 30339
(404) 857-6165

ROADWAY GRADING PLAN - ANVILBLOCK WEST

4443 OLD DUNN COURT

ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	1"=20'
PROJECT No: GA204012	
C9.13	1
SHEET NO.	REVISION

GRADING NOTES:

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
2. ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED. SLOPE MATTING IS TO BE USED FOR SLOPES STEEPER THAN 3:1.
3. EXISTING GRADE CONTOUR INTERVALS SHOWN AT 1'.
4. PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 1' INTERVALS.
5. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
6. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
7. TOPOGRAPHIC INFORMATION IS TAKEN FROM AN ALTA/NSPS SURVEY BY GEOSURVEY, LTD. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
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10. FOR FOUNDATION SUBSURFACE PREPARATION NOTE, REFERENCE GEOTECHNICAL REPORT.

CCWA GENERAL NOTES:

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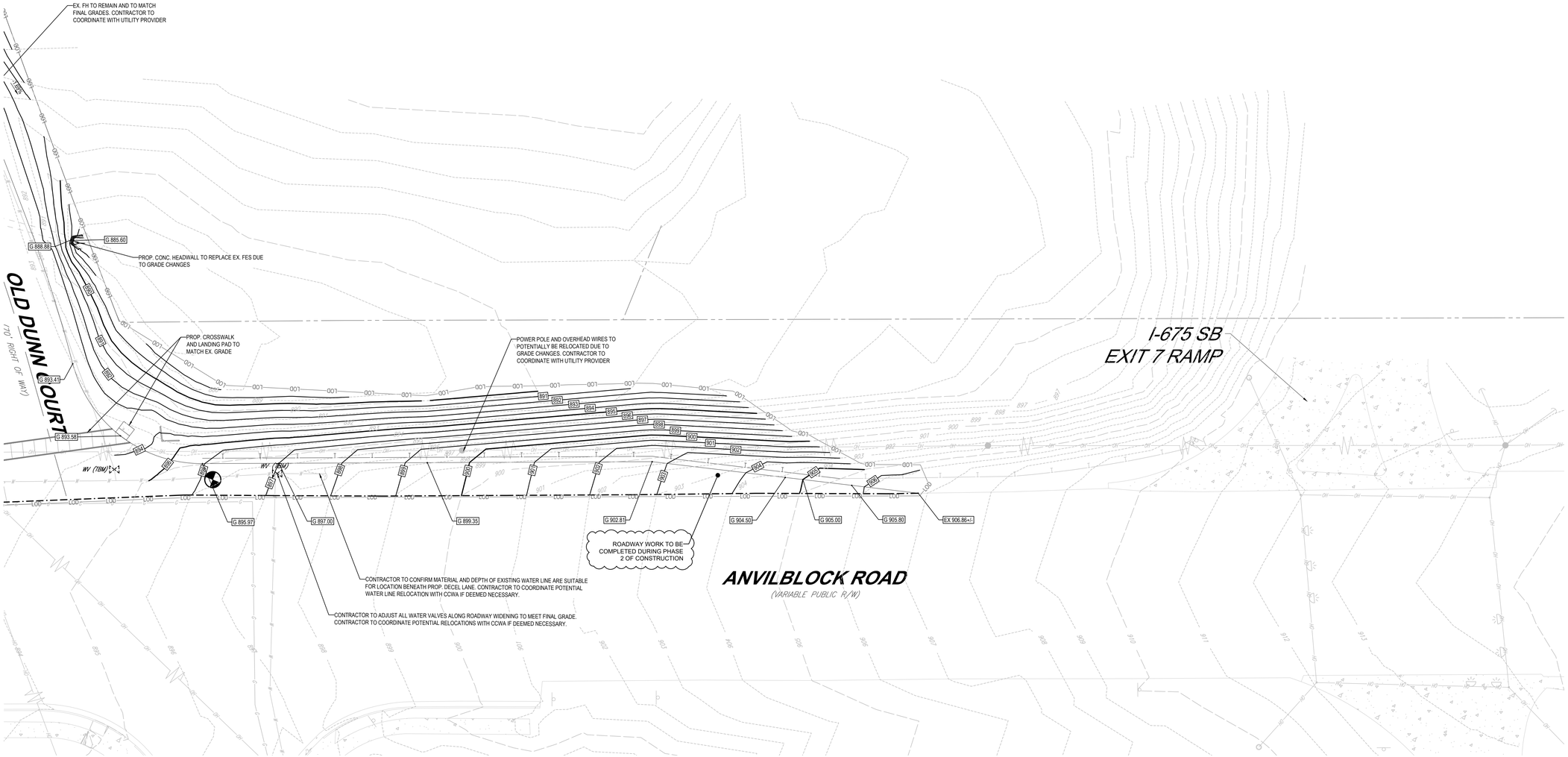

SITE DATA CHECKLIST	
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ZONING	HEAVY INDUSTRIAL; HIGHWAY 42 OVERLAY
ON-SITE DISTURBED AREA	± 6.64 AC
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TOTAL DISTURBED AREA	± 10.09 AC

OWNER/DEVELOPER

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200 GALLERIA PARKWAY S.E.,
SUITE 900
ATLANTA, GA 30339
TIM WILLIAMS:
(404) 857-6165

20 10 5 0 20
1"= 20'

NO.	REVISION	BY	DATE
1	PHASE 2 BID PLANS	NF	10/27/22

BOHLER

211 PERIMETER CENTER PKWY NE,
SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
GA@BohlerEng.com

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RaceTrac

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200 GALLERIA PARKWAY SE, SUITE 900
ATLANTA, GA 30339
(404) 857-6165

ROADWAY GRADING PLAN - ANVILBLOCK RIGHT TURN

4443 OLD DUNN COURT

ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	1"=20'
PROJECT No: GA204012	
C9.14	1
SHEET NO.	REVISION

GRADING NOTES:

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
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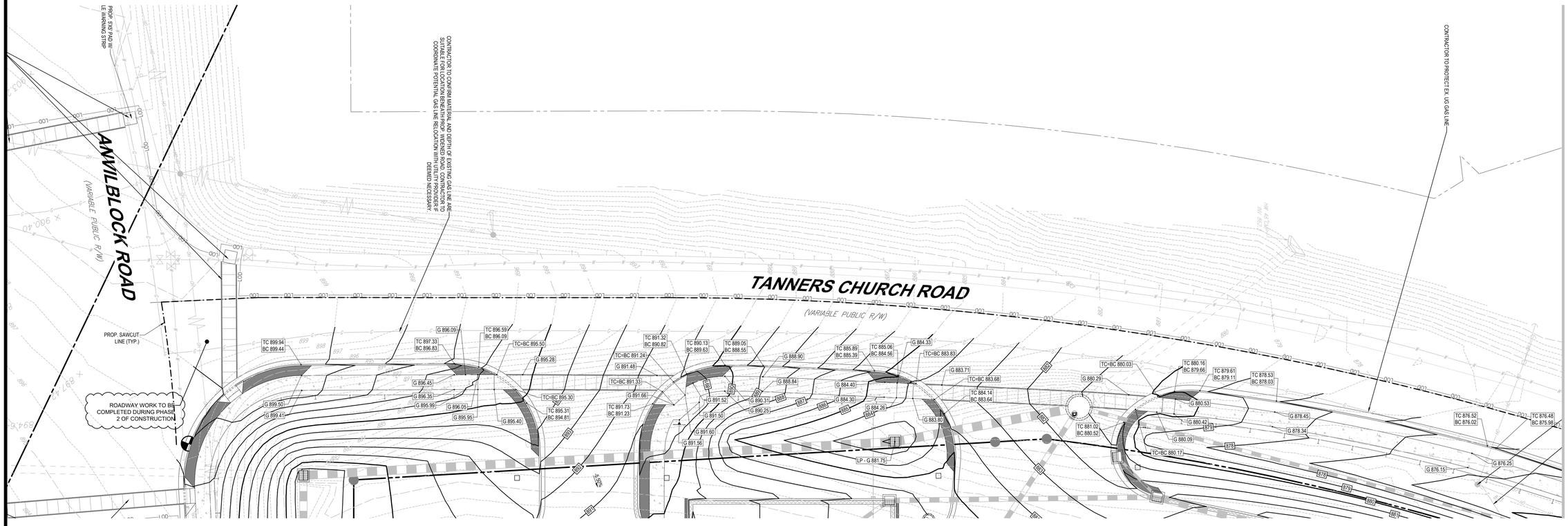
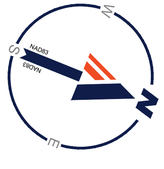


MATCHLINE
SEE SHEET C9.15 FOR CONTINUATION

SITE DATA CHECKLIST

TOTAL PARCEL AREA	± 6.64 AC
ZONING	HEAVY INDUSTRIAL; HIGHWAY 42 OVERLAY
ON-SITE DISTURBED AREA	± 6.64 AC
OFF-SITE DISTURBED AREA	± 3.45 AC
TOTAL DISTURBED AREA	± 10.09 AC



OWNER/DEVELOPER
RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY S.E.,
SUITE 900
ATLANTA, GA 30339
TIM WILLIAMS:
(404) 857-6165

20 10 5 0 20
1"= 20'

NO.	REVISION	BY	DATE
1	PHASE 2 BID PLANS	NF	10/27/22

BOHLER
211 PERIMETER CENTER PKWY NE,
SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
GA@BohlerEng.com

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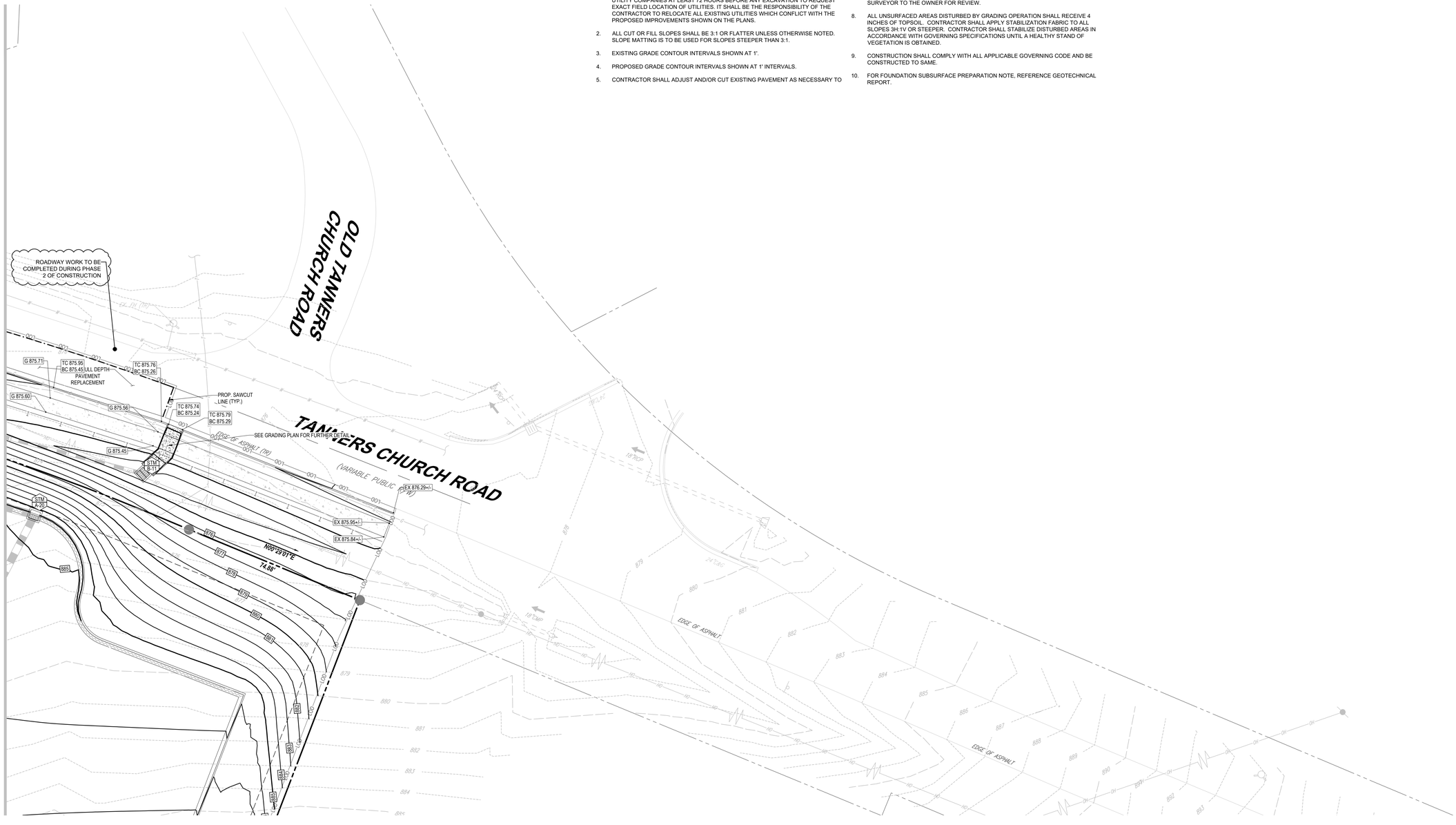
RaceTrac
RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY SE SUITE 900
ATLANTA, GA 30339
(404) 857-6165

ROADWAY GRADING PLAN - TANNERS CHURCH

4443 OLD DUNN COURT

ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	1"=20'
PROJECT No: GA204012	
C9.15	1
SHEET NO.	REVISION



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CCWA GENERAL NOTES:

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SITE DATA CHECKLIST	
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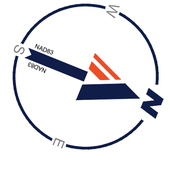
ZONING	HEAVY INDUSTRIAL; HIGHWAY 42 OVERLAY
ON-SITE DISTURBED AREA	± 6.64 AC
OFF-SITE DISTURBED AREA	± 3.45 AC
TOTAL DISTURBED AREA	± 10.09 AC



OWNER/DEVELOPER

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY S.E.,
SUITE 900
ATLANTA, GA 30339
TIM WILLIAMS:
(404) 857-6165

20 10 5 0 20
1"= 20'

NO.	BY	DATE
1	NF	10/27/22

PHASE 2 BID PLANS
REVISION

BOHLER

211 PERIMETER CENTER PKWY NE,
SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
GA@BohlerEng.com

FOR BIDDING PURPOSES ONLY

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RaceTrac

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY, SUITE 900
ATLANTA, GA 30339
(404) 857-6165

ROADWAY GRADING PLAN - TANNERS CHURCH

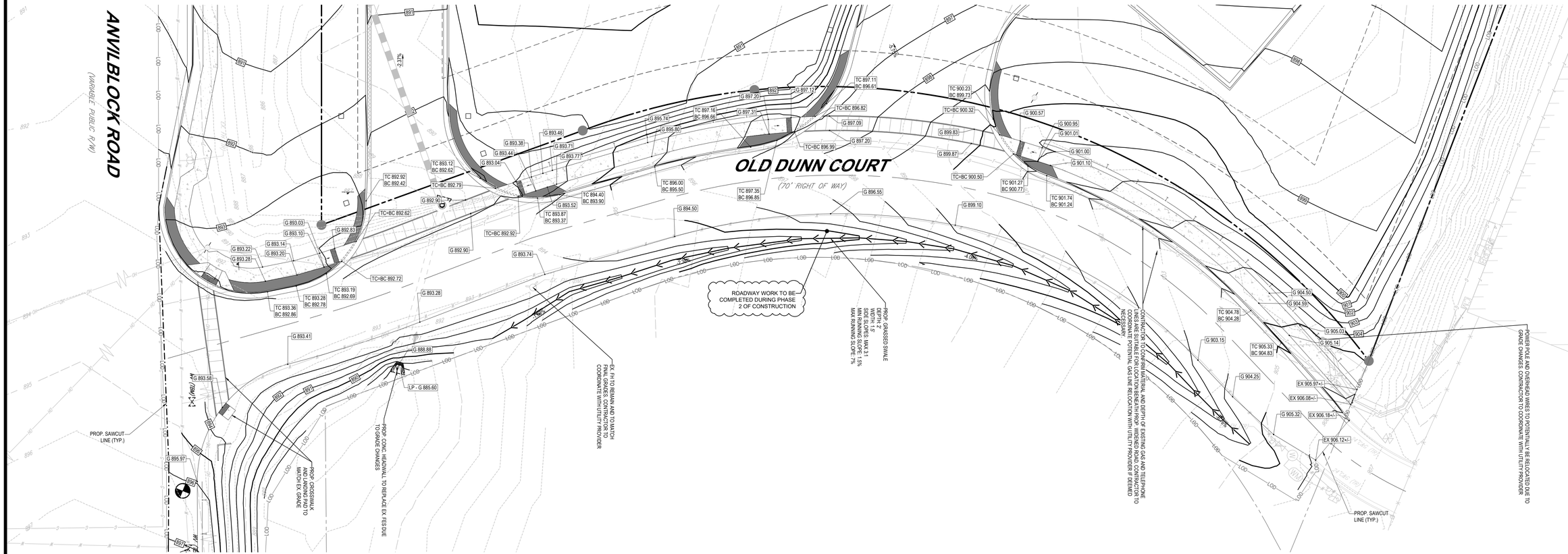
4443 OLD DUNN COURT

ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	1"=20'
PROJECT No: GA204012	
C9.16	1
SHEET NO.	REVISION

CCWA GENERAL NOTES:

1. PLANS INDICATED PREPARED USING THE FOLLOWING STATE PLAN COORDINATION SYSTEM. HORIZONTAL: NAD 83, VERTICAL: NAVD 88, GRID ZONE: GA WEST 1002.



SITE DATA CHECKLIST

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ZONING	HEAVY INDUSTRIAL; HIGHWAY 42 OVERLAY
ON-SITE DISTURBED AREA	± 6.64 AC
OFF-SITE DISTURBED AREA	± 3.45 AC
TOTAL DISTURBED AREA	± 10.09 AC

OWNER/DEVELOPER

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY S.E.,
SUITE 900
ATLANTA, GA 30339
CHANCE DENNIS
404-416-6733

20 10 5 0 20
1"= 20'

NO.	REVISION	BY	DATE
1	PHASE 2 BID PLANS	NF	10/27/22

BOHLER
211 PERIMETER CENTER PKWY NE,
SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 895-6800
GA@BohlerEng.com

FOR BIDDING PURPOSES ONLY

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RaceTrac

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY SE, SUITE 900
ATLANTA, GA 30339
(404) 857-6165

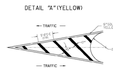
ROADWAY GRADING PLAN - OLD DUNN

4443 OLD DUNN COURT
ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	1"=20'
PROJECT No: GA204012	
C9.17	1
SHEET NO.	REVISION

H:\2020\GA204012\DRAWINGS\PLAN SETS\PHASE 2 BID PLANS\GA204012-PPP-0.DWG PRINTED BY: NFUSS 10.27.22 @ 8:30 AM LAST SAVED BY: NFUSS

DETAIL "A"(YELLOW)



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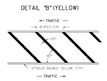

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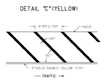

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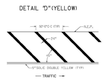

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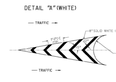

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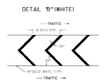

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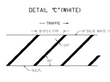

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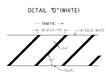


GENERAL NOTES:

1. FOR SOLID A STRIPING, THE SQUARE YARDS SHOWN ON PLAN, SUMMARY AND DETAILED ESTIMATE SHEETS, INCLUDE THE AREA WITHIN THE BORDERS AND THE 8" SOLID DOUBLE YELLOW BORDER.
2. FOR WHITE STRIPING, THE SQUARE YARDS SHOWN ON PLAN, SUMMARY AND DETAILED ESTIMATE SHEETS INCLUDES THE AREA WITHIN THE BORDERS AS WELL AS THE 8" SOLID WHITE BORDER.

DATE	REVISIONS
6/25/01	Modified generic note 1
11/08/05	CHANGED BORDER STRIPE
11/01/06	Modified generic note 1

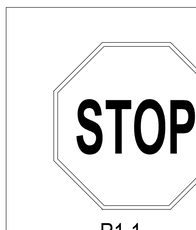
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE - TRAFFIC OPERATIONS

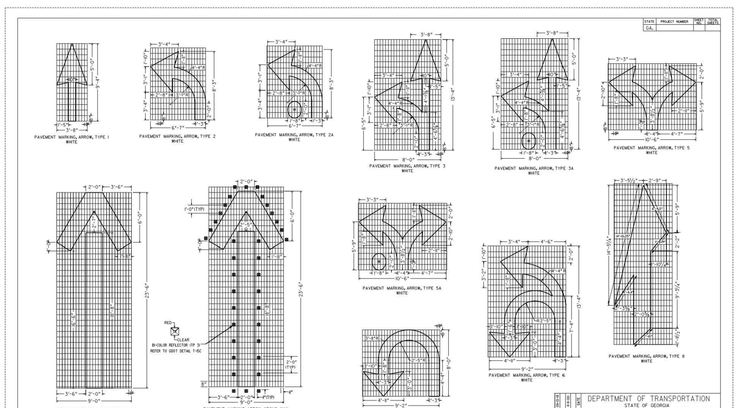
GEORGIA
DEPARTMENT
OF
TRANSPORTATION

- NO SCALE -

SIGNING AND MARKING PLANS

DETAIL OF PAVEMENT MARKING HATCHING — JANUARY 2000 — T - 14





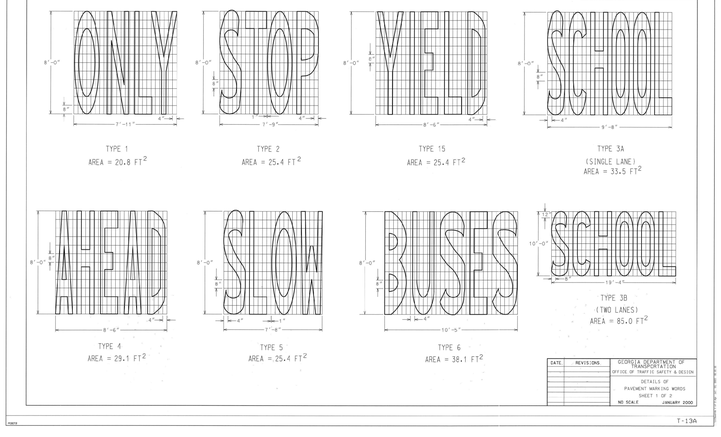
NOTES:
1. PAVEMENT MARKING ARROWS WITH A DOT (TA-3A, 5A) SHALL BE USED ALONG MULTI-LANE ROUNDABOUT APPROACHES ALONG THE INSIDE LANE ONLY.

STATE G.A.	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS
PAVEMENT MARKINGS - ARROWS

NO SCALE — JANUARY 2000 — NUMBER T-12B



TYPE 1
AREA = 20.8 FT²

TYPE 2
AREA = 25.4 FT²

TYPE 1S
AREA = 25.4 FT²

TYPE 3A
(SINGLE LANE)
AREA = 33.5 FT²

TYPE 4
AREA = 29.1 FT²

TYPE 5
AREA = 25.4 FT²

TYPE 6
AREA = 38.1 FT²

TYPE 3B
(TWO LANES)
AREA = 85.0 FT²

DATE	REVISIONS

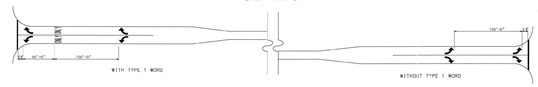
GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF PAVEMENT MARKING WORDS
SHEET 1 OF 2
NO SCALE — JANUARY 2000

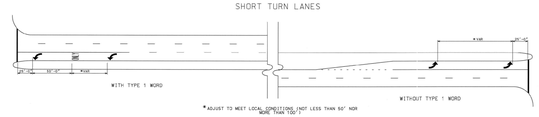
T-13A

STATE G.A.	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS

EXIT RAMPS

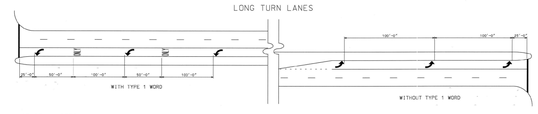


SHORT TURN LANES



* ADJUST TO MEET LOCAL CONDITIONS (NOT LESS THAN 50' NOR MORE THAN 150')

LONG TURN LANES



GENERAL NOTES:

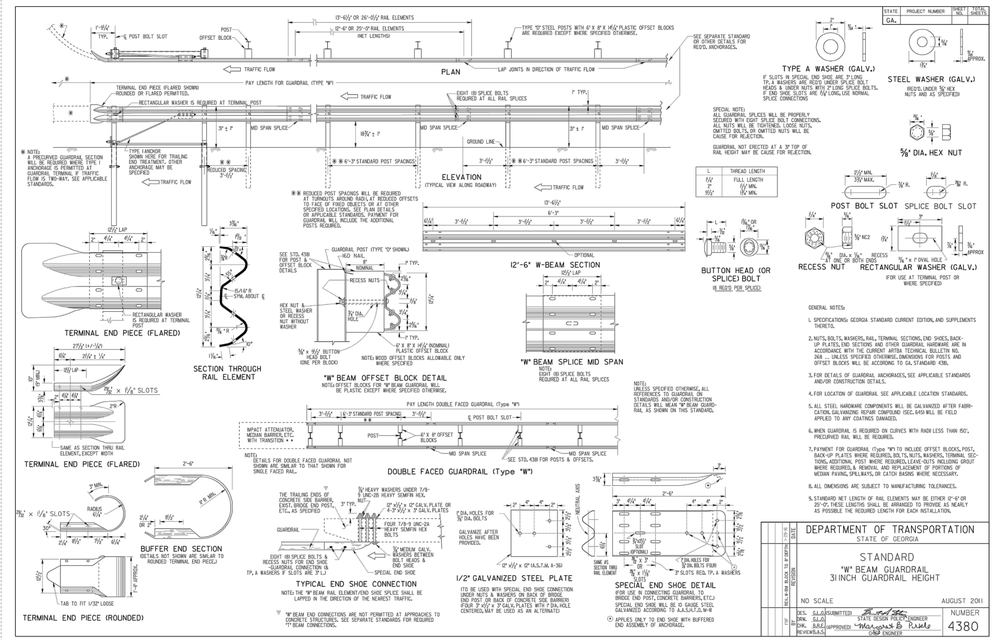
1. SPACING OF TYPE 2 ARROW IS REPRESENTATIVE OF SPACING FOR TYPE 1, TYPE 3, TYPE 4, & TYPE 5 ARROWS.
2. ALL TURNING LANES SHALL HAVE A MINIMUM OF 2 ARROWS.
3. GROUND MOUNTED OR OVERHEAD SIGNING SHALL BE SUPPLEMENTED BY TYPE 1 WORD.

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF PAVEMENT MARKING ARROW LOCATION
NO SCALE — JANUARY 2000

T-12A



STATE G.A.	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS

GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD CURRENT EDITION, AND SUPPLEMENTS THERETO.
2. NUTS, BOLTS, WASHERS, RAIL, TERMINAL SECTIONS, END SHOES, BACK-UP PLATES, AND SECTIONS AND OTHER GUARDRAIL HARDWARE ARE IN ACCORDANCE WITH THE CURRENT AASTO TRANSITAL BULLETIN NO. 2AB ... UNLESS SPECIFIED OTHERWISE. DIMENSIONS FOR POSTS AND OFFSET BLOCKS WILL BE ACCORDING TO GA. STANDARD 436.
3. FOR DETAILS OF GUARDRAIL ANCHORAGES, SEE APPLICABLE STANDARDS AND/OR CONSTRUCTION DETAILS.
4. FOR LOCATION OF GUARDRAIL SEE APPLICABLE LOCATION STANDARDS.
5. ALL STEEL HARDWARE COMPONENTS WILL BE GALVANIZED AFTER FABRICATION. GALVANIZING REPAIR COMPOUND (SEC. 649) WILL BE FIELD APPLIED TO ANY COATINGS DAMAGED.
6. WHEN GUARDRAIL IS REQUIRED ON CURVES WITH RADII LESS THAN 80', PRECURVED RAIL WILL BE REQUIRED.
7. PAYMENT FOR GUARDRAIL (Type 'W') TO INCLUDE OFFSET BLOCKS, POST, BACK-UP PLATES WHERE REQUIRED, BOLTS, NUTS, WASHERS, TERMINAL SECTIONS, ADDITIONAL POST WHERE REQUIRED, LEAVE-OUTS INCLUDING GROUT WHERE REQUIRED, & REMOVAL AND REPLACEMENT OF PORTIONS OF MEDIAN PAVING, SPILLWAYS, OR CATCH BASINS WHERE NECESSARY.
8. ALL DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
9. STANDARD NET LENGTH OF RAIL ELEMENTS MAY BE EITHER 12'-6" OR 25'-0". THESE LENGTHS SHALL BE ARRANGED TO PROVIDE AS NEARLY AS POSSIBLE THE REQUIRED LENGTH FOR EACH INSTALLATION.

DATE	DESCRIPTION
10/27/22	PHASE 2 BID PLANS

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
STATE DESIGN POLICY ENGINEER
APPROVED — DATE
NUMBER 436

H:\2020\GA204012\DRAWINGS\PLAN SET\PHASE 2 BID PLANS\GA204012-SDP-0.DWG PRINTED BY: NFUSS 10.27.22 @ 8:30 AM LAST SAVED BY: NFUSS

J:\4\2018\8.0\8c18.MK.\ASSET-DSK\80PLOT\DOT\DOC_ref_base\ex_PlStd\cpkight\ep5\Standards\436\Standards-436D\Revision.dgn:U:\80\436S.fmw\red_8018\r18b_prf.

NO.	DESCRIPTION	BY	DATE
1	REVISION	NF	10/27/22

BOHLER
211 PERIMETER CENTER PKWY NE,
SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
GA@BohlerEng.com

FOR BIDDING PURPOSES ONLY

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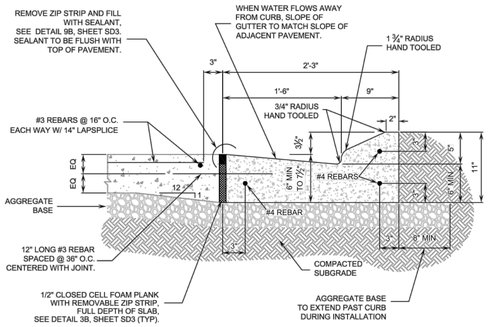
RaceTrac
RACETRAC PETROLEUM, INC.
200 GALLERIA PKWY, SUITE 900
ATLANTA, GA 30339
(404) 857-6165

ROADWAY DETAILS

4443 OLD DUNN COURT

ELLENWOOD, GA 30294

DRAWN BY	DW / NF
DATE	10/27/2022
SCALE	NTS
PROJECT No: GA204012	
C9.18	1
SHEET NO.	REVISION

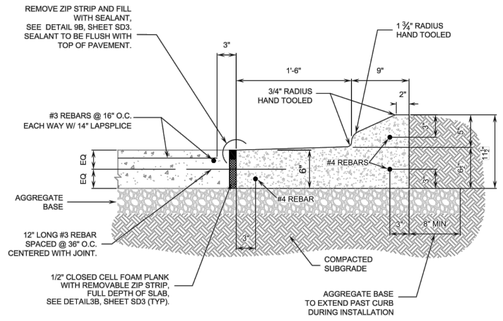


NOTES:

1. CURB CONSTRUCTION AND CONTRACTION JOINTS LOCATIONS NOT TO EXCEED 10 FEET.
2. SAWCUT CONTRACTION JOINTS 1/8" WIDE BY 1-1/2" DEEP AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT RAVELING OR DISLODGING OF AGGREGATES.
3. SAWCUT CONSTRUCTION JOINTS 1/8" WIDE BY 1" DEEP, SIMILAR TO DETAIL 9A, SHEET SD3.
4. VERIFY JOINT LOCATIONS WITH THE OWNER'S REPRESENTATIVE.

1 SD1 CATCH CURB DETAIL @ CONCRETE SLAB

NTS

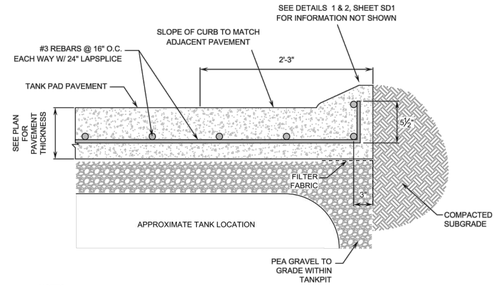


NOTES:

1. CURB CONSTRUCTION AND CONTRACTION JOINTS LOCATIONS NOT TO EXCEED 10 FEET.
2. SAWCUT CONTRACTION JOINTS 1/8" WIDE BY 1-1/2" DEEP AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT RAVELING OR DISLODGING OF AGGREGATES.
3. SAWCUT CONSTRUCTION JOINTS 1/8" WIDE BY 1" DEEP, SIMILAR TO DETAIL 9A, SHEET SD3.
4. VERIFY JOINT LOCATIONS WITH THE OWNER'S REPRESENTATIVE.
5. USE THIS DETAIL WHEN ADJACENT PAVEMENT SLOPES AWAY FROM CURBING.

2 SD1 SHED CURB DETAIL @ CONCRETE SLAB

NTS

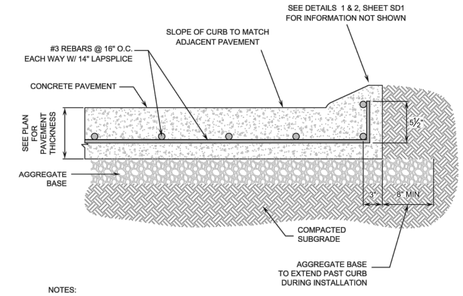


NOTES:

1. CURB CONSTRUCTION AND CONTRACTION JOINTS LOCATIONS NOT TO EXCEED 10 FEET.
2. SAWCUT CONTRACTION JOINTS 1/8" WIDE BY 1-1/2" DEEP AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT RAVELING OR DISLODGING OF AGGREGATES.
3. SAWCUT CONSTRUCTION JOINTS 1/8" WIDE BY 1" DEEP, SIMILAR TO DETAIL 9A, SHEET SD3. VERIFY JOINT LOCATIONS WITH THE OWNER'S REPRESENTATIVE.
4. THIS CURB TYPE IS TO BE USED ALONG THE CURB LINE ADJACENT TO THE TANK PAVEMENT. SEE PLAN FOR LOCATION.

3 SD1 TANK AREA CURB DETAIL

NTS

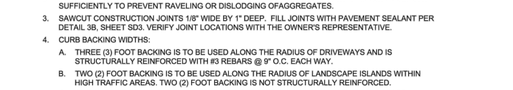


NOTES:

1. CURB CONSTRUCTION AND CONTRACTION JOINTS LOCATIONS NOT TO EXCEED 10 FEET.
2. SAWCUT CONTRACTION JOINTS 1/8" WIDE BY 1-1/2" DEEP AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT RAVELING OR DISLODGING OF AGGREGATES.
3. SAWCUT CONSTRUCTION JOINTS 1/8" WIDE BY 1" DEEP, SIMILAR TO DETAIL 9A, SHEET SD3. VERIFY JOINT LOCATIONS WITH THE OWNER'S REPRESENTATIVE.
4. THIS CURB TYPE IS TO BE USED ALONG THE CURB LINE ADJACENT TO THE DRIVEWAY TRENCH DRAINS. SEE PLAN FOR LOCATIONS.

4 SD1 MONOLITHIC CURB DETAIL

NTS



NOTES:

1. CURB CONSTRUCTION AND CONTRACTION JOINTS LOCATIONS NOT TO EXCEED 10 FEET.
2. SAWCUT CONTRACTION JOINTS 1/8" WIDE BY 1-1/2" DEEP AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT RAVELING OR DISLODGING OFAGGREGATES.
3. SAWCUT CONSTRUCTION JOINTS 1/8" WIDE BY 1" DEEP. FILL JOINTS WITH PAVEMENT SEALANT PER DETAIL 3B, SHEET SD3. VERIFY JOINT LOCATIONS WITH THE OWNER'S REPRESENTATIVE.
4. CURB BACKING WIDTHS:
   A. THREE (3) FOOT BACKING IS TO BE USED ALONG THE RADIUS OF DRIVEWAYS AND IS STRUCTURALLY REINFORCED WITH #3 REBARS @ 9" O.C. EACH WAY.
   B. TWO (2) FOOT BACKING IS TO BE USED ALONG THE RADIUS OF LANDSCAPE ISLANDS WITHIN HIGH TRAFFIC AREAS. TWO (2) FOOT BACKING IS NOT STRUCTURALLY REINFORCED.
   C. ONE (1) FOOT BACKING IS TO BE USED AS A PEDESTRIAN WALKWAY WITHIN LANDSCAPE ISLANDS. ONE (1) FOOT BACKING IS NOT STRUCTURALLY REINFORCED.
5. SEE PAVING PLAN FOR EXACT LOCATIONS OF CURB BACKING.

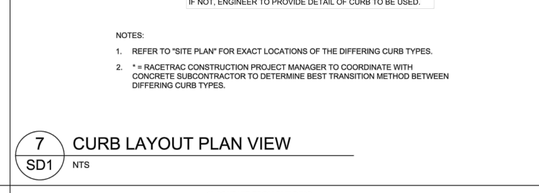
5 SD1 CONCRETE BACKING FOR ON-SITE CURB

NTS

SEE SITE PLAN FOR EXACT LOCATIONS

6 SD1 CURB TRANSITION DETAILS

NTS

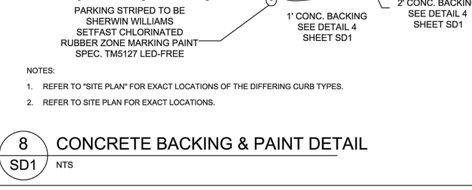


NOTES:

1. REFER TO "SITE PLAN" FOR EXACT LOCATIONS OF THE DIFFERING CURB TYPES.
2. * = RACETRAC CONSTRUCTION PROJECT MANAGER TO COORDINATE WITH CONCRETE SUBCONTRACTOR TO DETERMINE BEST TRANSITION METHOD BETWEEN DIFFERING CURB TYPES.

7 SD1 CURB LAYOUT PLAN VIEW

NTS

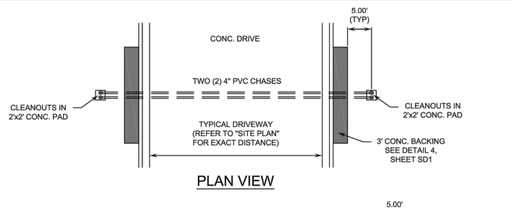


NOTES:

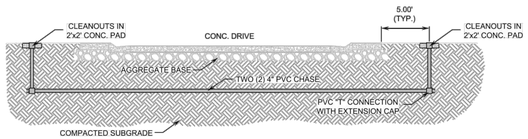
1. REFER TO "SITE PLAN" FOR EXACT LOCATIONS OF THE DIFFERING CURB TYPES.
2. REFER TO SITE PLAN FOR EXACT LOCATIONS.

8 SD1 CONCRETE BACKING & PAINT DETAIL

NTS



PLAN VIEW



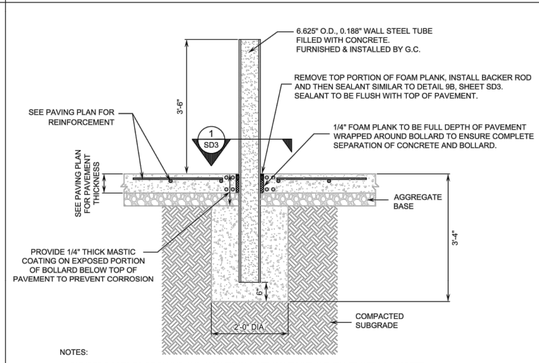
SECTION VIEW

NOTES:

1. PVC CHASE TO BE PLACED UNDER ALL DRIVEWAYS. REFER TO "SITE PLAN" FOR EXACT LOCATIONS.
2. CHASES ARE NOT TO BE USED FOR IRRIGATION INSTALLED WITH THIS DEVELOPMENT. IRRIGATION SLEEVES WILL BE SEPARATE.
3. REFER TO "UTILITY PLAN" AND IRRIGATION PLAN FOR IRRIGATION SLEEVE LOCATIONS.

9 SD1 PVC CHASE DETAIL

NTS

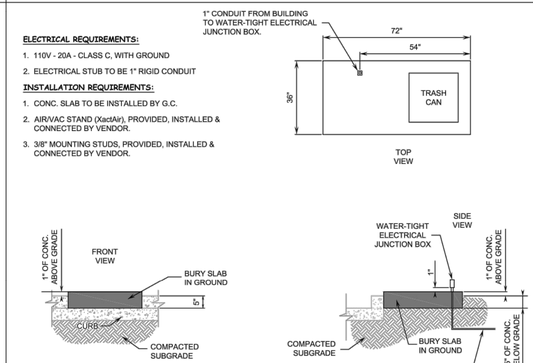


NOTES:

1. BUMPER POSTS TO BE PLUMB AND ALIGNED IN A STRAIGHT LINE AND FILLED WITH CONCRETE.
2. TOPS TO BE GROUND SMOOTH W/ SQUARE EDGE, THE PRIMED WITH "END RUST" BY DURO AND PAINTED WITH INDUSTRIAL OIL BASED ENAMEL, COLOR TO MATCH DECORATIVE LIGHT POLES.
3. REFER TO PAVING PLAN FOR EXACT CONCRETE THICKNESS.
4. REFER TO PAVING PLAN FOR CONCRETE COMPRESSIVE STRENGTH & SUBGRADE COMPACTION REQUIREMENTS.

10 SD1 CANOPY BOLLARD DETAIL

NTS

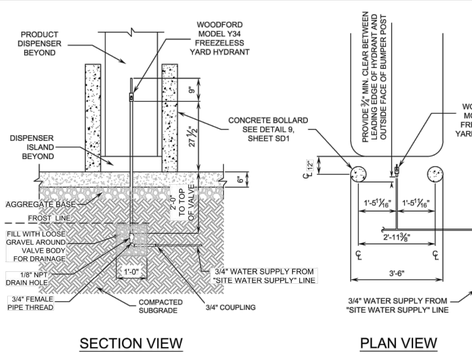


NOTES:

1. SECURE VAULT TO PAD W/ TWO (2) 29-00450 ANGLE BRACKETS AND FOUR (4) ¼"Ø x 4" SIMPSON TITAN HD SCREWTYPE ANCHORS (TYP.)
2. REFER TO PAVING PLAN FOR EXACT CONCRETE THICKNESS.
3. REFER TO PAVING PLAN FOR CONCRETE COMPRESSIVE STRENGTH & SUBGRADE COMPACTION REQUIREMENTS.

11 SD1 AIR/VAC SERVICE DETAIL

NTS



SECTION VIEW PLAN VIEW

NOTES:

1. SEE "SITE PLAN" FOR EXACT LOCATIONS.
2. REFER TO PAVING PLAN FOR EXACT CONCRETE THICKNESS.
3. REFER TO PAVING PLAN FOR CONCRETE COMPRESSIVE STRENGTH & SUBGRADE COMPACTION REQUIREMENTS.

12 SD1 YARD HYDRANT DETAIL

NTS

NO.	BY	DATE
1	NF	10/27/22
PHASE 2 BID PLANS	REVISION	

BOHLER
211 PERIMETER CENTER PKWY NE, SUITE 425
ATLANTA, GEORGIA 30346
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GA@BohlerEng.com

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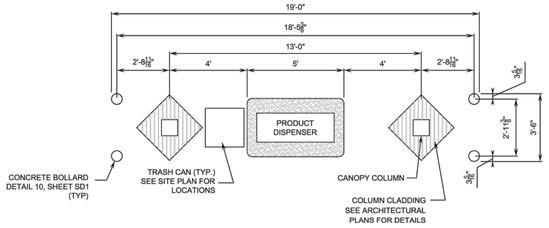
ATLANTA, GA 30339
(404) 857-6165

RACETRAC STANDARD DETAILS

4443 OLD DUNN COURT

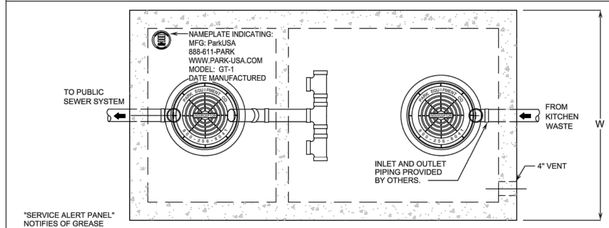
ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	NTS
PROJECT No: GA204012	
SD1	1
SHEET NO.	REVISION

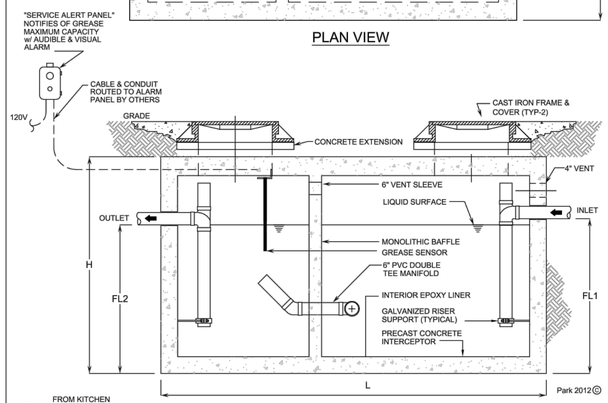


1 SD2 DISPENSER ISLAND DETAIL

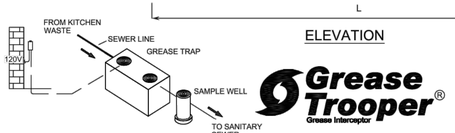
NTS



PLAN VIEW



ELEVATION



Grease Trooper® Grease Interceptor

TYPICAL APPLICATIONS INCLUDE COMMERCIAL AND INDUSTRIAL FOOD SERVICE KITCHENS WHERE EXCESSIVE GREASE MAY INTERFERE WITH THE PROPER DRAINAGE OF THE SEWER SYSTEM. THE GREASE INTERCEPTOR IS GENERALLY BURIED BELOW GRADE FOR GRAVITY FLOW SEWER SYSTEMS. A SAMPLE WELL IS UTILIZED ON THE OUTLET SIDE FOR SAMPLING BY THE LOCAL WATER AUTHORITY.

SPECIFICATIONS:

CONCRETE:

CLASS II CONCRETE WITH DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR, FIRST STAGE OF WALL AND BAFFLE WITH SECTIONAL RISER TO REQUIRED DEPTH. (MONOLITHIC BAFFLE REQUIRED. SLIDE-IN TYPE IS NOT ACCEPTABLE).

REINFORCEMENTS:

GRADE 60 REINFORCEMENT WITH STEEL REBAR CONFORMING TO ASTM A615 ON REQUIRED CENTERS OR EQUAL.

C.I. CASTINGS:

MANHOLE FRAMES, COVERS OR GRATES ARE MANUFACTURED OF GRAY CAST IRON CONFORMING TO ASTM A48-76 CLASS 30. MANHOLE SHALL BE NOMINAL 24 INCH DIAMETER AND BE TRAFFIC DUTY.

GREASE INTERCEPTOR SCHEDULE								
MODEL NO.	CAPACITY USGAL	GREASE CAP. (LBS)	EMPTY WT (LBS)	LENGTH L	WIDTH W	HEIGHT H	INLET FL1	OUTLET FL2
GT-1500	1,500	3,500	16,050	9'-2"	5'-8"	7'-0"	5'-9"	5'-6"

OTHER SIZES ARE AVAILABLE. CONTACT RACETRAC FOR MORE INFORMATION.

ENGINEERING DATA:

THE GREASE INTERCEPTOR IS STRUCTURALLY & HYDRAULICALLY ENGINEERED TO CONFORM TO REGIONAL PLUMBING CODES RECOMMENDED IN MOST CITIES. CONSULT WITH LOCAL AUTHORITIES FOR SPECIFIC APPLICATION REQUIREMENTS.

SHOP DRAWINGS SHALL INCLUDE COMPLETE STRUCTURAL AND BUOYANCY CALCULATIONS CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER.

CONSULT WITH PARK EQUIPMENT COMPANY FOR EXACT EXCAVATION DIMENSIONS & SHIPPING INFORMATION.

ANSI Z1001 · NPCA CERTIFIED PLANT · EPA · ASSE INTERNATIONAL SECURITY CONFORMITY · ASPE MEMBER · ASTM C-1613

888.811.7275
www.park-usa.com
PARK U.S.A.
Design for Water

NOTE:

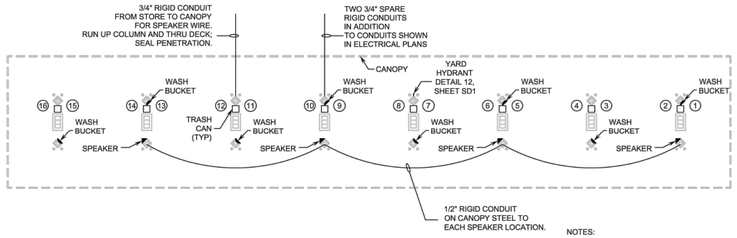
1. ENGINEER OF RECORD APPROVAL REQUIRED FOR "APPROVED EQUAL".

GREASE INTERCEPTOR SERIES GT 1500 GALLON CAPACITY			
SCALE	NONE	DWG. NO.	REV.
DATE	2012	GT-1	A

4 SD2 GREASE TRAP (1500 GALLON CAPACITY) & SAMPLE WELL DETAILS OR "APPROVED EQUAL"

NTS

STORE SIDE



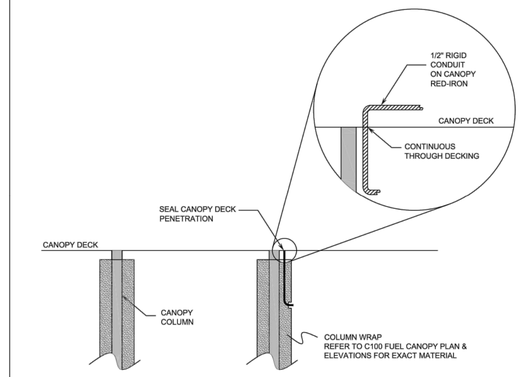
STREET SIDE

NOTES:

1. SINGLE ROW OF EIGHT (8) DOUBLE COLUMN MPD'S.
2. SIXTEEN (16) FUELING POSITIONS.
3. REFER TO CANOPY PLANS FOR CANOPY DIMENSIONS AND COLUMN LOCATIONS.

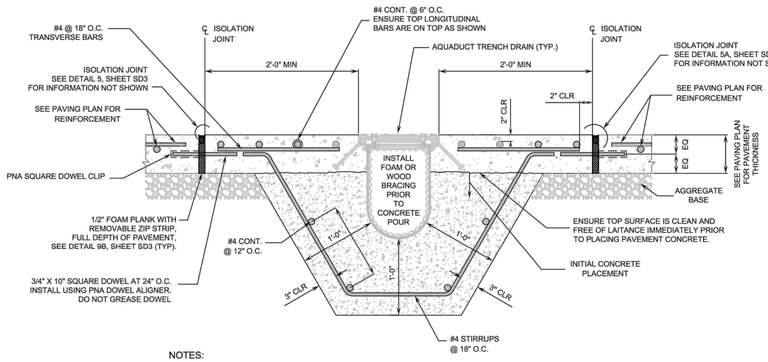
2 SD2 CANOPY ACCESSORIES LAYOUT

NTS



3 SD2 CONDUIT PENETRATION DETAIL

NTS

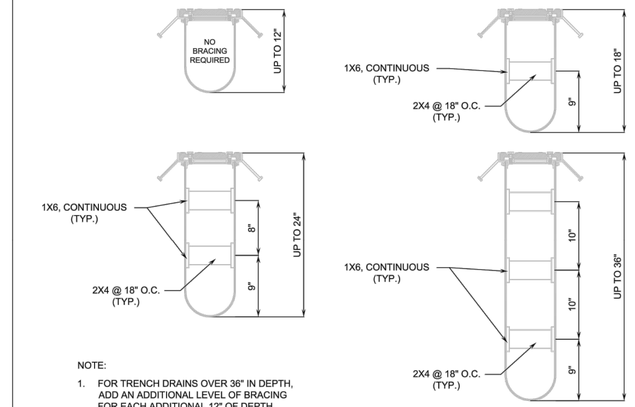


NOTES:

1. G.C. MUST READ INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION OF AQUADUCT TRENCH DRAIN.
2. REFER TO DETAIL 6, SHEET SD2 FOR BRACING RECOMMENDATIONS.
4. SOME PROJECTS MAY HAVE MULTIPLE TRENCH DRAINS ON SITE. (REFER TO "GRADING PLAN" FOR EXACT LOCATIONS.)
5. EACH TRENCH DRAIN IS INDIVIDUALLY DESIGNED AND SIZED BY AQUADUCT, INC. (REFERE TO DESIGN SPECS FOR EXACT SIZING.)

5 SD2 TYP. CONCRETE DETAIL FOR AQUADUCT TRENCH DRAIN

NTS



NOTE:

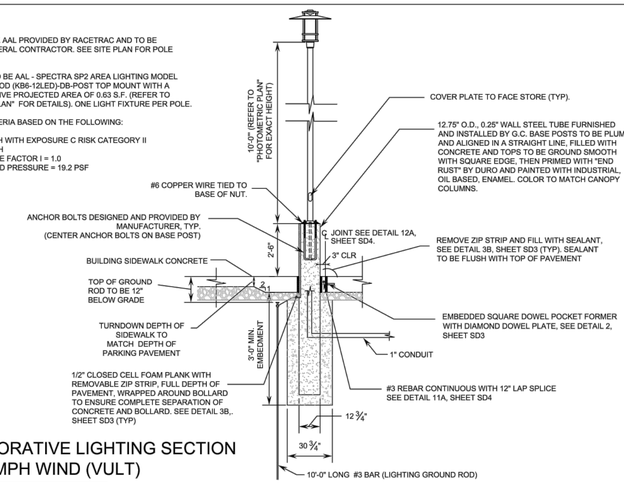
1. FOR TRENCH DRAINS OVER 36" IN DEPTH, ADD AN ADDITIONAL LEVEL OF BRACING FOR EACH ADDITIONAL 12" OF DEPTH.

6 SD2 AQUADUCT TRENCH DRAIN BRACING LAYOUT DETAILS

NTS

NOTES:

1. LIGHT POLES TO BE AAL PROVIDED BY RACETRAC AND TO BE INSTALLED BY GENERAL CONTRACTOR. SEE SITE PLAN FOR POLE LOCATIONS.
2. LIGHT FIXTURES TO BE AAL - SPECTRA SP2 AREA LIGHTING MODEL STR-Y4-2050 FCO-MOD (KB6-12LED)-DB-POST TOP MOUNT WITH A MAXIMUM EFFECTIVE PROJECTED AREA OF 0.63 S.F. (REFER TO "PHOTOMETRIC PLAN" FOR DETAILS). ONE LIGHT FIXTURE PER POLE.
3. WIND DESIGN CRITERIA BASED ON THE FOLLOWING:
   A. ASCE 7-10
   B. Vult=120 MPH WITH EXPOSURE C RISK CATEGORY II
   C. Vasd=93 MPH
   D. IMPORTANCE FACTOR I = 1.0
   E. DESIGN WIND PRESSURE = 19.2 PSF

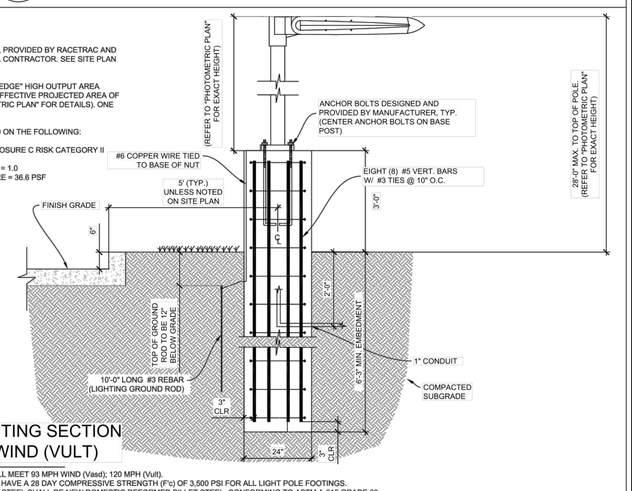


7 SD2 DECORATIVE LIGHTING SECTION 120 MPH WIND (VULT)

1. LIGHT POLES SHALL MEET 93 MPH WIND (Vasd); 120 MPH (Vult).
2. CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH (F'c) OF 3,500 PSI FOR ALL LIGHT POLE FOOTINGS.
3. ALL REINFORCING STEEL SHALL BE NEW DOMESTIC DEFORMED BILLET STEEL CONFORMING TO ASTM A-615 GRADE 60.

NOTES:

1. LIGHT POLES TO BE SPALDING, PROVIDED BY RACETRAC AND TO BE INSTALLED BY GENERAL CONTRACTOR. SEE SITE PLAN FOR POLE LOCATIONS.
2. LIGHT FIXTURES TO BE CREE "EDGE" HIGH OUTPUT AREA LUMINAIRE WITH A MAXIMUM EFFECTIVE PROJECTED AREA OF 2.0 S.F. (REFER TO "PHOTOMETRIC PLAN" FOR DETAILS). ONE LIGHT FIXTURE PER POLE.
3. WIND DESIGN CRITERIA BASED ON THE FOLLOWING:
   A. ASCE 7-10
   B. Vult=120 MPH WITH EXPOSURE C RISK CATEGORY II
   C. Vasd=93 MPH
   D. IMPORTANCE FACTOR I = 1.0
   E. DESIGN WIND PRESSURE = 36.6 PSF



8 SD2 SITE LIGHTING SECTION 120 MPH WIND (VULT)

1. LIGHT POLES SHALL MEET 93 MPH WIND (Vasd); 120 MPH (Vult).
2. CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH (F'c) OF 3,500 PSI FOR ALL LIGHT POLE FOOTINGS.
3. ALL REINFORCING STEEL SHALL BE NEW DOMESTIC DEFORMED BILLET STEEL CONFORMING TO ASTM A-615 GRADE 60.
4. CONCRETE ABOVE FINISH GRADE TO BE SMOOTH WITH RUBBED FINISH.
5. CONCRETE LIGHT POLE BASES TO BE PAINTED TO MATCH BOLLARD.

NO.	BY	DATE
1	NF	10/27/22

PHASE 2 BID PLANS
REVISION

BOHLER
211 PERIMETER CENTER PKWY NE, SUITE 425
ATLANTA, GEORGIA 30346
Phone: (678) 695-6800
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FOR BIDDING PURPOSES ONLY

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ATLANTA, GA 30339
(404) 857-6165

RACETRAC STANDARD DETAILS

4443 OLD DUNN COURT
ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	NTS
PROJECT No: GA204012	
SD2	1
SHEET NO.	REVISION

GENERAL CONCRETE PAVEMENT NOTES

1. REVIEW AND VERIFY ALL AS-BUILT CONDITIONS WHICH AFFECT NEW CONSTRUCTION PRIOR TO SUBMISSION OF SHOP DRAWINGS AND ANY FABRICATION.
2. INDUSTRY STANDARDS GOVERNING THIS WORK ARE OF THE LATEST ISSUE AT THE DATE OF THIS DRAWING RELEASE.
3. ENSURE STORAGE, HANDLING, PREPARATION, INSTALLATION, ETC. OF ALL MATERIALS ARE IN ACCORDANCE WITH MANUFACTURERS' / VENDOR'S PRINTED RECOMMENDATIONS AND INSTRUCTIONS.

PAVEMENT SUBGRADE AND BASE NOTES

1. ENSURE TESTING AGENCY VERIFIES THE SUBGRADE IS COMPACTED TO THE SPECIFIED MAXIMUM DRY DENSITY AS DETERMINED BY THE GEOTECHNICAL ENGINEER. RECOMPACT SOFT AREAS AS DIRECTED BY THE GEOTECHNICAL ENGINEER. TESTING AGENCY TO PROVIDE A LETTER REPORT TO THE OWNER'S REPRESENTATIVE STATING THAT THE SUBGRADE HAS BEEN PROPERLY COMPACTED.
2. ENSURE TESTING AGENCY EVALUATES THE SUBGRADE BY PROOF-ROLLING. PROOF ROLLING TO BE DONE BY A FULLY LOADED TANDEM-AXLE DUMP TRUCK OR OTHER EQUIVALENTLY WHEELED VEHICLE ACCEPTABLE TO THE TESTING AGENCY. REPAIR SOFT AREAS THAT DEPRESS DEEPER THAN 1/2 INCH AS DIRECTED BY THE TESTING AGENCY. TESTING AGENCY TO PROVIDE A LETTER REPORT TO THE OWNER'S REPRESENTATIVE STATING THE SUBGRADE HAS BEEN PROOF-ROLLED AND IS ACCEPTABLE. **** DO NOT** PROOF-ROLL ON TOP OF OR WITHIN 5 FEET OF THE EDGE OF THE UNDERGROUND STORAGE TANK LOCATIONS.
   - A. IF APPLICABLE, THIS PROCESS SHOULD BE IMPLEMENTED AFTER COMPLETION OF THE ROUGH GRADING AND SHOULD BE REPEATED BEFORE THE PLACEMENT OF THE SLAB.
   - B. IF RUTTING OR PUMPING IS EVIDENT AT ANY TIME DURING PREPARATION OF THE SUBGRADE, SUBBASE, BASE ROLLING, OR SLAB PLACEMENT, CORRECTIVE ACTION SHOULD BE TAKEN. FULL SOIL SUPPORT HAS BEEN ACHIEVED IF THE ROLLED AREA IS OBSERVED TO BE FIRM AND UNYIELDING, WITH NO DEPRESSIONS GREATER THAN 1/2 IN. RUTTING NORMALLY OCCURS WHEN THE SURFACE OF THE BASE OR SUBBASE IS WET, GREATER THAN THREE PERCENTAGE POINTS ABOVE OPTIMUM MOISTURE CONTENT, AND THE UNDERLYING SOILS OR SUBGRADE ARE FINE. PUMPING NORMALLY OCCURS WHEN THE SURFACE OF THE BASE OR SUBBASE IS DRY AND THE UNDERLYING SOILS ARE WET.
   - C. REPAIRS SHOULD INCLUDE, BUT NOT BE LIMITED TO, RAKING SMOOTH OR CONSOLIDATING WITH SUITABLE COMPACTION EQUIPMENT.
3. AGGREGATE BASE MATERIAL:
   - A. COARSE AGGREGATE BASE: CRUSHER RUN WITH ROCK FINES. USE ASTM D448, NO. 467, 57 OR 67 BLEND ONLY IF NOTED OR ALLOWED.
   - B. FINE AGGREGATE BASE: CLEAN SCREENINGS ASTM D 448, NO. 10 WITH 6% TO 12% PASSING NO. 200 SIEVE.
5. AGGREGATE BASE MATERIAL INSTALLATION:
   - A. COMPACT COARSE AGGREGATE BASE TO FINAL THICKNESS SHOWN IN LAYERS NOT EXCEEDING 6 INCHES, WITH MINIMUM OF 2 PASSES PER LAYER WITH A VIBRATORY COMPACTOR.
   - B. COMPACT BASE TO THE SPECIFIED MAXIMUM DRY DENSITY AS DETERMINED BY THE GEOTECHNICAL ENGINEER.
   - C. CHOKE-OFF TOP SURFACE OF COARSE AGGREGATE BASE WITH FINE AGGREGATE BASE MATERIAL DUE TO THE FOLLOWING:
     - C.1. AS REQUIRED TO MEET FINE GRADE ELEVATION TOLERANCES SPECIFIED.
     - C.2. WHERE COARSE AGGREGATE BASE MATERIAL DOES NOT HAVE SUFFICIENT FINE PARTICLES TO PRODUCE A SURFACE THAT IS FREE OF EXPOSED AGGREGATE OR SURFACE VOIDS IMMEDIATELY PRIOR TO PAVEMENT INSTALLATIONS.
   - D. COMPACT FINE AGGREGATE BASE CHOKE-OFF LAYER WITH A MINIMUM OF 2 PASSES WITH A VIBRATORY COMPACTOR.
   - E. TOP SURFACE OF BASE MATERIAL TO BE DRY, SMOOTH, FLAT, DENSE SURFACE IMMEDIATELY BEFORE PLACING CONCRETE.
6. ENSURE TESTING AGENCY VERIFIES AGGREGATE BASE IS COMPACTED TO THE SPECIFIED MAXIMUM DRY DENSITY AS DETERMINED BY THE GEOTECHNICAL ENGINEER IMMEDIATELY PRIOR TO PLACING PAVEMENT. TESTING AGENCY TO PROVIDE LETTER REPORT TO OWNER'S REPRESENTATIVE STATING THE BASE IS ACCEPTABLE.
7. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY IF UNUSUAL SOIL CONDITIONS ARE FOUND.
8. PROTECT EXISTING STRUCTURES, UTILITIES, PROPERTY CORNERS, ETC. RESTORE ALL ITEMS DAMAGED, AS REQUIRED BY OWNER, AT NO COST TO OWNER OR WITHOUT EXTENSION OF CONTRACT TIME. **** DO NOT** ALLOW STORED EXCAVATION MATERIAL TO DISRUPT PROPER DRAINAGE OF AREA, DAMAGE TO SURROUNDING AREAS, OR STAIN ADJACENT CONCRETE.
9. DISPOSE OF EXCAVATED MATERIAL AS REQUIRED BY OWNER'S REPRESENTATIVE.

CONCRETE PAVEMENT NOTES:

1. CONFORM TO ACI 318 AND 117 FOR THE DESIGN AND PLACEMENT OF CONCRETE, REINFORCING, AND RELATED ITEMS.
2. CONFORM TO ACI 306.1 FOR COLD WEATHER CONCRETING AND ACI 305R WHEN ANY COMBINATION OF HIGH TEMPERATURE, LOW RELATIVE HUMIDITY, AND WIND VELOCITY TEND TO IMPAIR THE QUALITY OF THE CONCRETE. REJECT CONCRETE IF ITS TEMPERATURE AT TIME OF PLACEMENT IS 90 DEGREES FAHRENHEIT (°F) OR ABOVE. PROTECT SURFACES OF EXPOSED CONCRETE FROM PRECIPITATION DAMAGE UNTIL ADEQUATE STRENGTH IS GAINED TO PREVENT DAMAGE.
   - A. MINIMUM CONDITIONS FOR CONCRETE PLACEMENT-
     - AMBIENT CONDITIONS - 35° AND RISING
     - AGGREGATE BASE TEMP - 45° AND RISING
     - CONCRETE TEMPERATURE - 65° (+/- 5°)
     - CURE APPLICATION - 45° AND RISING
3. CONFORM TO ACI 302.1R, 304R, 308, 309R AND 347R FOR CONCRETE, FORM WORK, CURING, AND RELATED ITEMS. CONFORM TO CRSI MANUAL OF STANDARD PRACTICE AND CRSI PLACING REINFORCING BARS FOR PLACING REINFORCING.
4. PROVIDE A MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS OF 3500 psi.
5. PROVIDE A MINIMUM CEMENTITIOUS CONTENT IN ACCORDANCE WITH ACI 302.1R AND A MAXIMUM WATER/CEMENTITIOUS RATIO OF 0.50. MEASURE AND MIX CONCRETE IN ACCORDANCE WITH ACI 211.1. AIR ENTRAIN CONCRETE EXPOSED TO THE WEATHER. USE SLUMP OF FIVE INCHES (+1/2 INCH, -ONE INCH).
6. SUBMIT FOR APPROVAL MIX DESIGNS AND TEST RESULTS FOR COMPRESSIVE STRENGTH, SLUMP, AND AIR ENTRAINMENT. INCLUDE STANDARD DEVIATIONS AND AVERAGE COMPRESSIVE STRENGTHS FOR FIELD DATA. INCLUDE BRAND NAME AND CHEMICAL COMPOSITION OF ALL ADMIXTURES. INCLUDE AGGREGATE TYPE, SOURCE, AND AGGREGATE GRADATION WITH PERCENT RETAINED ON EACH SIEVE FOR EACH AGGREGATE SIZE GROUP AND TOTAL COMBINED FOR ALL SIZE GROUPS. SUBMIT 14 DAYS MINIMUM PRIOR TO USE.
7. MIX AND TRANSPORT READY-MIXED CONCRETE IN ACCORDANCE WITH ASTM C94, EXCEPT REDUCE MAXIMUM DISCHARGE TIME TO 75 AND 60 MINUTES FOR AIR TEMPERATURES OF 85-90 AND 90 F, RESPECTIVELY.
8. THE OWNER'S TESTING AGENCY WILL TEST SAMPLES OF CONCRETE FOR COMPRESSIVE STRENGTH, AIR ENTRAINMENT, SLUMP, DENSITY (UNIT WEIGHT) AND TEMPERATURE IN ACCORDANCE WITH ASTM C31, C39 AND C138 FROM THE FIRST TRUCK EACH DAY AND THEN EACH 100 CUBIC YARDS FOR EACH TYPE OF CONCRETE PLACED PER DAY, BUT NOT LESS THAN ONCE FOR EACH DAY OF CONCRETE PLACEMENT. WHEN ABOVE SCHEDULE PROVIDES LESS THAN FIVE TESTS PER TYPE OF CONCRETE, TEST FIVE RANDOM BATCHES. IF FEWER THAN 5 BATCHES ARE USED, TEST EACH BATCH. IF CONCRETE IS PUMPED, ENSURE TEST SAMPLES ARE TAKEN AT THE POINT OF PLACEMENT. EACH COMPRESSIVE TEST SHALL CONSIST OF FOUR TEST CYLINDERS TO BE TESTED AS FOLLOWS: ONE AT SEVEN DAYS, TWO AT 28 DAYS, ONE RESERVE.
9. CONFORM TO THE FOLLOWING:
   - A. CEMENT: ASTM C 150.
     1. TYPE I-II, II OR TYPE I CEMENT WITH MAXIMUM C3A CONTENT OF 8%.
   - B. AGGREGATES:
     1. ASTM C33, SUBJECT TO SEVERE WEATHERING AND ABRASION, SURFACE APPEARANCE IS IMPORTANT.
     2. OF TOTAL COMBINED COARSE AND FINE AGGREGATES PER MIX DESIGN, DO NOT ALLOW MATERIAL RETAINED ON ANY ONE SIEVE TO BE
        - (1) LESS THAN 6% NOR MORE THAN 24% OF TOTAL BY WEIGHT, EXCEPT:
        - (1) LARGEST COARSE AGGREGATE SIZE TO BE #4 STONE. RETAIN 1% TO 8% OF TOTAL COMBINED AGGREGATES PER MIX DESIGN ON LARGEST SIEVE WITH RETAINED AGGREGATE.
        - (2) NO. 30 AND 50 SIEVES TO BE 6% TO 15%.
        - (3) NO. 100 SIEVE TO BE 2% TO 5%.
     3. GRADATION REQUIREMENTS OF ASTM C33 MAY BE WAIVED, IF ALLOWED BY ENGINEER, IN ORDER TO MEET 6% - 24% RANGE NOTED ABOVE.
   - C. WATER: CLEAN AND POTABLE.
   - D. AIR ENTRAINMENT: ASTM C260.
   - E. WATER-REDUCER: ASTM C494, TYPE A, OR D IF APPROVED. NON-CHLORIDE TYPE.
   - F. RETARDER: ASTM C494, TYPE B OR D.
   - G. ACCELERATOR: ASTM C494, TYPE C OR E. NON-CHLORIDE AND NON-THIOCYANATE TYPE.
   - H. FLY ASH: ASTM C 618, CLASS C OR F, EXCEPT LOSS ON IGNITION NOT TO EXCEED 3%.
   - I. SLAG: ASTM C989, GRADE 100 MINIMUM.
   - J. AGGREGATE BASE: CRUSHER RUN WITH ROCK FINES COMPACT WITH A MINIMUM OF TWO PASSES WITH A SMOOTH VIBRATORY COMPACTOR.
   - K. JOINT BACK-UP MATERIAL: POLYETHYLENE FOAM, 100% CLOSED CELL.
   - L. FIRM PREFORMED JOINT FILLER (PJF): ASTM D 1751, NONEXTRUDING, USE FULL DEPTH OF CONCRETE.
   - M. SOFT PREFORMED JOINT FILER: "EXPANSION-JOINT FILLER" BY SONNEBORN, "DECK-O-FOAM" BY W. R. MEADOWS, OR "CERAMAR" FLEXIBLE FOAM BY W. R. MEADOWS. USE FULL DEPTH OF CONCRETE.
   - N. EVAPORATION RETARDANT: "EUCO-BAR" BY EUCLID, "CONFILM" BY MASTER BUILDERS OR AQUAFILM BY DAYTON SUPERIOR
   - O. LOAD PLATE DOWELS AND CLIPS: PNA, 1-800-542-0214
   - P. DIAMOND DOWELS AND POCKET FORMERS: DIAMOND DOWEL SYSTEM BY PNA. 1-800-542-0214, SPEED PLATE SYSTEM BY GREENSTREAK GROUP, INC 1-800-325-9504.
   - Q. PAVEMENT SEALANT: DOW 888 BY DOW CORNING, 301 NS BY PECORA, SPECTRUM 800 OR 900 BY TREMCO.
   - R. LIQUID CURING AND SEALING COMPOUND: ASTM C1315, TYPE I, STYRENE ACRYLATE OR METHACRYLATE TYPE, 29% MINIMUM SOLIDS CONTENT, CLEAR, NON-YELLOWING, STYRENE BUTADIENE NOT ALLOWED AS PART OF BLEND.
   - S. REBAR SUPPORT DEVICES: CRSI MANUAL OF STANDARD PRACTICE.
10. DO NOT USE MANUFACTURED SAND EXCEPT AS A BLEND WITH NATURAL SAND AND/OR AS APPROVED BY ENGINEER.
11. IF POZZOLAN IS APPROVED, ENSURE WEIGHT OF POZZOLAN DIVIDED BY SUM OF CEMENT AND POZZOLAN WEIGHTS IS AT LEAST 15% AND DOES NOT EXCEED FOLLOWING:
    - A. FLY ASH:
      CLASS C FLY ASH: 25%.
      CLASS F FLY ASH: 20%.
    - B. SLAG: 30%
12. DO NOT USE CALCIUM CHLORIDE AS PART OF ADMIXTURE OR BY ITSELF.
13. ENSURE REINFORCING BARS CONFORM TO ASTM A615 GRADE 60, DEFORMED
14. THE GEOTECHNICAL ENGINEERING REPORT INDICATES THAT THE SOILS ON-SITE HAVE A XXXXXXXX SULFATE EXPOSURE. WHERE IMPORTED FILL OR BASE MATERIALS ARE IN CONTACT WITH CONCRETE, THE SULFATE CONTENT AND EXPOSURE OF THESE MATERIALS SHALL BE ACQUIRED BY TEST. SUBMIT ALL TEST RESULTS WITH CONCRETE MIX DESIGNS. FAILURE TO PROVIDE SUPPORTING TEST RESULTS FROM AN ACCREDITED TESTING LABORATORY WILL REQUIRE THE CONCRETE MIX TO BE PROPORTIONED FOR VERY SEVERE SULFATE EXPOSURE AT NO ADDITIONAL COST OR DELAY IN THE PROJECT SCHEDULE.
15. CONCRETE SHALL BE PROPORTIONED TO MEET THE PROJECT SPECIFICATIONS AND THE MINIMUM CRITERIA ESTABLISHED IN "TABLE A" (THIS SHEET) BASED ON THE SULFATE EXPOSURE FROM ANY ADJACENT SOILS OR FILL MATERIALS.
16. ADDITIONALLY, EXTERIOR CONCRETE EXPOSED TO FREEZING TEMPERATURES AND/OR SALT OR DEICING CHEMICALS SHALL HAVE AIR ENTRAINMENT AND THE CEMENT CONTENT APPROPRIATE FOR THE EXPECTED EXPOSURE.
    - A. MINIMUM 4500 psi AND A 0.45 w/cm RATIO. AIR ENTRAIN CONCRETE TO PROVIDE 6% (+/ 1.5%) AIR. PROVIDE SLUMP OF FIVE INCHES (+/-ONE INCH) AT POINT OF CONCRETE PLACEMENT.
17. CONCRETE TO MEET DURABILITY REQUIREMENTS OF ACI 301, FREEZING AND THAWING EXPOSURE CATEGORY TO BE [F0] [F1] [F2] [F3], SULFATE EXPOSURE CATEGORY TO BE [S0] [S1] [S2] [S3], AND CORROSION PROTECTION EXPOSURE CATEGORY TO BE [C0] [C1] [C2]. PROVIDE A MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS OF [3500 PSI] [4000 PSI] [4500 PSI] [5000 PSI] WITH MAXIMUM WATER/CEMENTITIOUS RATIO OF [0.55] [0.50] [0.45] [0.40].
18. ENSURE REINFORCING BARS CONFORM TO ASTM A615 GRADE 60, DEFORMED.
19. PROVIDE CLASS B TENSION LAP SPLICES PER ACI 318, FOR CONCRETE STRENGTH AND BAR LOCATIONS NOTED.
20. MAINTAIN FULL THICKNESS FOR DEPRESSED OR SLOPED PAVEMENTS.
21. ****** DO NOT ADD WATER OR PLAIN CEMENT TO ANY PAVEMENT SURFACE DURING FINISHING OPERATIONS.
22. PERFORM NO FINISHING OPERATION WHILE WATER IS PRESENT ON PAVEMENT SURFACE.
23. STRIKE OFF CONCRETE TO REQUIRED ELEVATIONS AND IMMEDIATELY START FINISHING/FLATTENING OPERATIONS. ENSURE FINISHING OPERATIONS ARE NO MORE THAN NECESSARY TO REMOVE IRREGULARITIES AND MEET SPECIFIED TOLERANCES. USE A HIGHWAY STRAIGHTEDGE 10-FOOT-WIDE MAXIMUM, UNLESS OTHERWISED ALLOWED BY OWNER'S REPRESENTATIVE, IN ORDER TO CUT OFF HIGH SPOTS AND FILL IN LOW SPOTS. PERFORM FINISHING OPERATIONS AS NECESSARY TO ENSURE PAVEMENT WILL DRAIN WELL. UNIFORMLY FINISH SURFACE TO TEXTURE PREVIOUSLY APPROVED BY OWNER'S REPRESENTATIVE. ** DO NOT ALLOW SURFACE TO DRY DURING FINISHING OPERATIONS AND BEFORE CURING COMPOUND IS APPLIED; USE EVAPORATION RETARDANT AS NECESSARY TO PREVENT SURFACE DRYING AND PLASTIC SHRINKAGE CRACKS.
24. FOR TOLERANCES CONFORM TO ACI 117 AND ACI 347R, EXCEPT AS NOTED BELOW:
    - A. PAVEMENT AGGREGATE BASE FINE GRADE +0, -3/4 INCH.
    - B. MINIMUM PAVEMENT TOLERANCE: -3/4 INCH.
    - C. WHEN COMPUTING THE AVERAGE OF ALL SAMPLES, SAMPLES WITH A THICKNESS MORE THAN ¼ INCH ABOVE THE SPECIFIED THICKNESS SHALL BE ASSUMED TO HAVE A THICKNESS OF 3/4 INCH MORE THAN THE SPECIFIED THICKNESS.
    - D. AVERAGE PAVEMENT THICKNESS TOLERANCE: -0.
    - E. THICKNESS SAMPLES ARE TO BE RANDOMLY LOCATED FROM EACH PAVEMENT PLACEMENT AND NOT EXCEED 1000 SQUARE FEET OF PAVEMENT SURFACE AREA.
25. START SAWING PAVEMENT CONTRACTION JOINTS USING A "SOFF-CUT" SAW, BLADES AND SKID PLATES AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT RAVELING OR DISLODGING OF AGGREGATES, UNLESS RAVELING OR DISLODGING OCCURS. COMPLETE SAWING OF JOINTS WITHIN THE MAXIMUM ELAPSED TIME LIMIT NOTED BELOW, BUT PREFERABLY LESS. THE SPECIFIED TIME FOR ANY ONE LOCATION STARTS WHEN FINISHING OPERATIONS ARE COMPLETE FOR THAT LOCATION. THE SPECIFIED TEMPERATURE IS THE MAXIMUM AIR TEMPERATURE IN DEGREES FAHRENHEIT (°F) THAT OCCURS WITHIN THE SPECIFIED TIME LIMIT. THE ELAPSED TIME MAY NEED TO BE SHORTENED EVEN MORE IF DRY AND OR WINDY CONDITIONS ARE PRESENT. ENSURE JOINTS ARE CLEANED AFTER SAWING AND REMAIN CLEAN UNTIL SEALED.

MAX DEGREES FAHRENHEIT (°F)	MAX ELAPSED HOURS
85 AND ABOVE	1
60 - 84	2
50 - 59	3
40 - 49	4

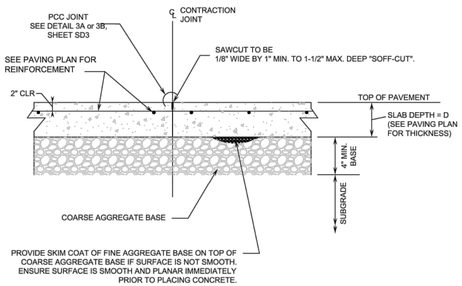
26. START CURING AS SOON AS CONCRETE SURFACE WILL NOT BE DAMAGED BY CURING OPERATIONS.
27. ENSURE PAVEMENT SURFACE IS PROTECTED FROM EQUIPMENT SCRAPES, IMPACT ABRASIONS, STAINS, ETC. REPAIR PAVEMENT SURFACE AS DIRECTED BY OWNER'S REPRESENTATIVE. ENSURE VEHICLES AND EQUIPMENT ARE DIAPERED TO PREVENT OIL OR OTHER FLUID LEAKS FROM STAINING THE PAVEMENT. VEHICLE AND EQUIPMENT TRAFFIC IS PROHIBITED UNTIL THE COMPLETION OF PAVEMENT CURING PERIOD (MINIMUM OF SEVEN CONSECUTIVE DAYS).
28. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PROCESS, CIVIL AND VENDOR'S DRAWINGS FOR EMBEDDED ITEMS NOT SHOWN. COORDINATE AND PLACE ALL EMBEDDED ITEMS SHOWN ON THE DRAWINGS OR REQUIRED BY ALL TRADES.
29. PRE-CONSTRUCTION MEETINGS:
    - A. ATTEND PRE-CONSTRUCTION / PLACEMENT MEETING TO BE SCHEDULED AT LEAST 7 DAYS BEFORE STARTING MAIN CONCRETE PAVEMENT.
    - B. ATTENDANCE DESIGNATED BY THE OWNER'S REPRESENTATIVE AND THE FOLLOWING: STRUCTURAL SERVICES INC. REPRESENTATIVE (863-393-4495), TESTING AGENCY, CONTRACTOR, CONCRETE SUPPLIER (INCLUDING QUALITY CONTROL PERSONNEL), AND SUBCONTRACTORS FOR SUBGRADE AND BASE PREPARATION, REINFORCEMENT, PUMPING OR OTHER MEANS OF CONVEYING,PLACEMENT, FINISHING, SAWING, FORMWORK, AND OTHER PERTINENT PORTIONS OF WORK.
    - C. REPRESENTATIVES ARE TO BE PERSONNEL WHO ARE DIRECTLY INVOLVED IN PROJECT AND WHO HAVE AUTHORITY TO CONTROL WORK.

TABLE A: NASHVILLE & BELOW (SEE CONCRETE PAVEMENT NOTE #5)

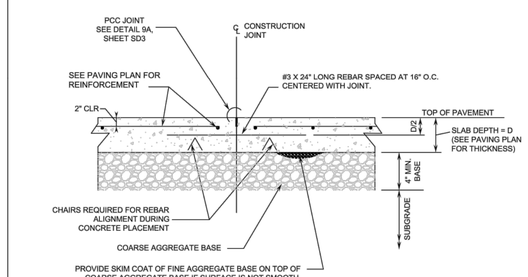
SULFATE EXPOSURE	WATER SOLUBLE SULFATE (SO_4) IN WATER PPM	SULFATE (SO_4) IN WATER PPM	PORTLAND CEMENT TYPE	MAXIMUM W/C RATIO	CONCRETE PAVEMENTS
NEGLIGIBLE	$0.00 \leq SO_4 < 0.10$	$0 \leq SO_4 < 150$	I	0.55	3500
MODERATE	$0.10 \leq SO_4 < 0.20$	$150 \leq SO_4 < 1500$	II	0.50	4000
SEVERE	$0.20 \leq SO_4 \leq 2.00$	$1500 \leq SO_4 < 10,000$	V	0.45	4500
VERY SEVERE	$SO_4 > 2.00$	$SO_4 > 10,000$	V PLUS POZZOLAN	0.40	5000

NOTE TO CIVIL ENGINEERING COMPANY

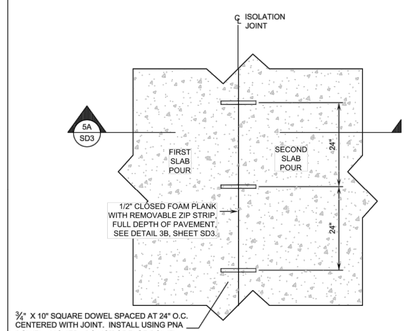
TYPICALLY USE "MODERATE" EXPOSURE FROM TABLE. CONTACT EPM IF EXPOSURE CLASS SHOULD BE CHANGED.



3 SD3 SLAB CONTRACTION JOINT SECTION — NTS



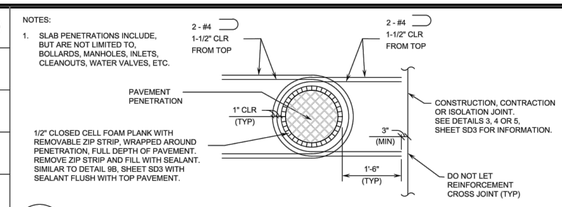
4A SD3 SLAB CONSTRUCTION JOINT SECTION — NTS



5 SD3 ISOLATION JOINT PARTIAL PLAN DETAIL — NTS

NOTES:

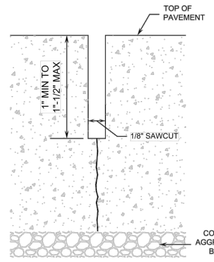
1. SLAB PENETRATIONS INCLUDE, BUT ARE NOT LIMITED TO, BOLLARDS, MANHOLES, INLETS, CLEANOUTS, WATER VALVES, ETC.



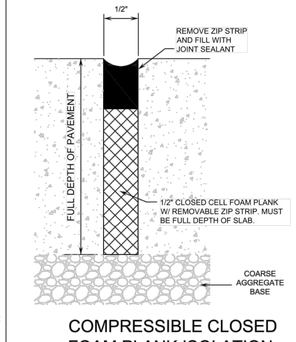
1 SD3 SLAB PENETRATIONS DETAIL (SSW, BOLLARD,ETC) — NTS

NOTES:

1. SAWCUT JOINTS IN ACCORDANCE WITH CONCRETE PAVEMENT NOTE 25, SHEET SD3.
2. WAIT AS LONG AS FEASIBLE TO SEAL JOINTS TO ALLOW CONCRETE SHRINKAGE TO OCCUR.

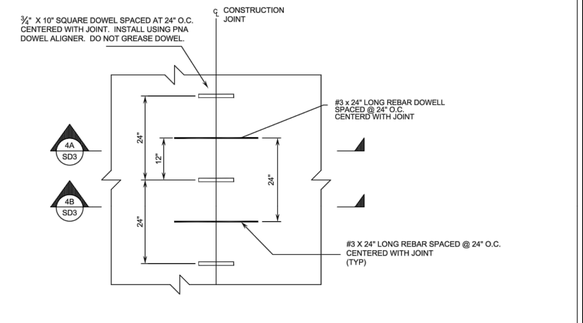


3A SD3 PCC JOINT DETAIL — NTS

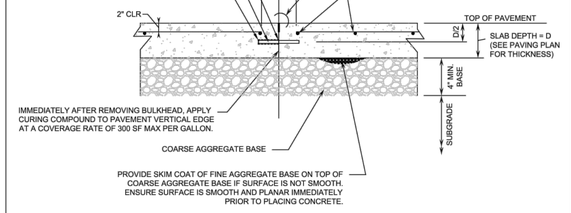


COMPRESSIBLE CLOSED FOAM PLANK ISOLATION JOINT DETAIL

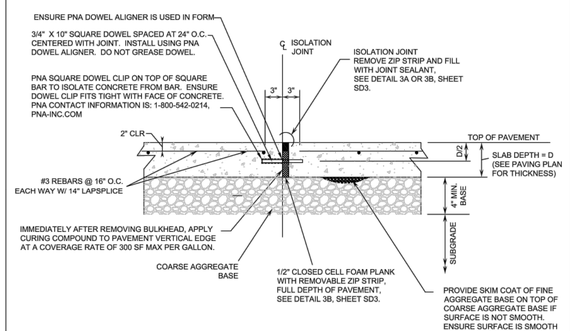
3B SD3 — NTS



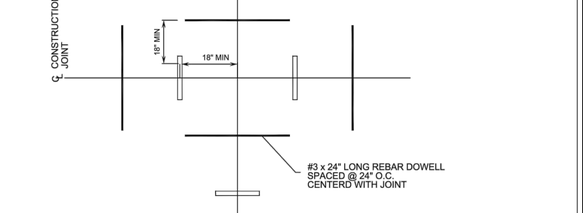
4 SD3 CONSTRUCTION JOINT PARTIAL PLAN DETAIL — NTS



4B SD3 SLAB CONSTRUCTION JOINT SECTION — NTS

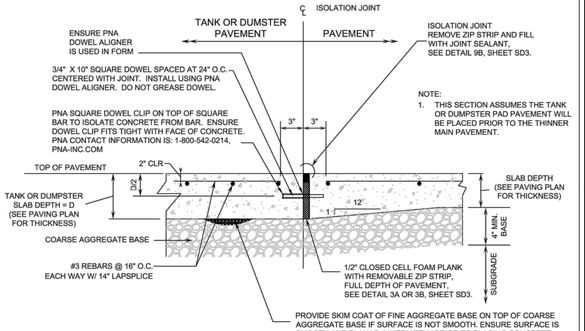


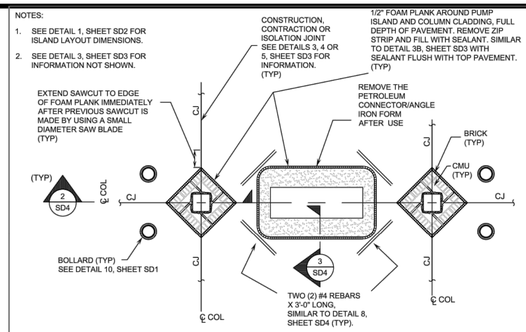
5A SD3 ISOLATION JOINT SECTION — NTS



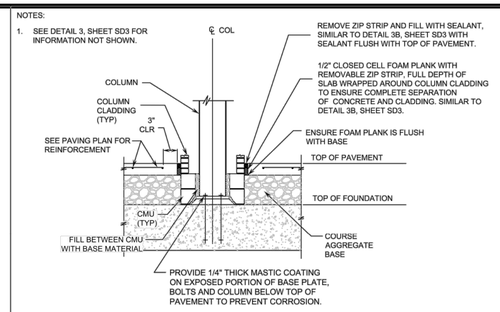
4C SD3 CONSTRUCTION JOINT INTERSECTION PARTIAL PLAN DETAIL — NTS

5B SD3 ISOLATION JOINT @ TANK PAD AND DUMPSTER PAD PAVEMENT SECTION — NTS

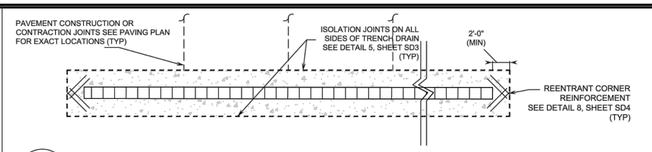

℄ ISOLATION JOINT
TANK OR DUMSTER PAVEMENT
PAVEMENT
ENSURE PNA DOWEL ALIGNER IS USED IN FORM
ISOLATION JOINT REMOVE ZIP STRIP AND FILL WITH JOINT SEAL



1 SD4 CONCRETE DETAIL @ DISPENSER ISLAND
NTS



2 SD4 CANOPY COLUMN SECTION WITH COLUMN CLADDING
NTS

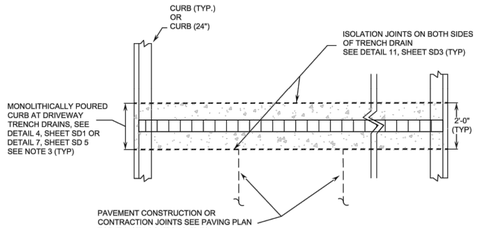


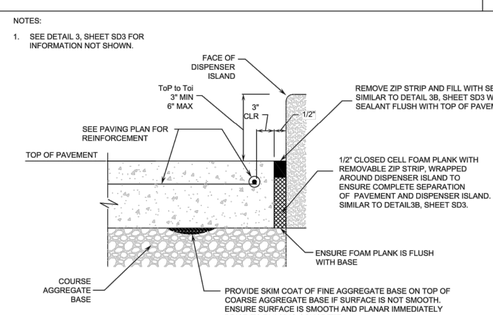
3A SD4 SITE TRENCH DRAIN PLAN
NTS

NOTES:
1. TRENCH DRAIN TO BE ISOLATED ON ALL SIDES WITH ISOLATION JOINT. SEE DETAIL 11, SHEET SD3
2. 2'-0" (MIN) CLEARANCE BETWEEN EDGE OF TRENCH DRAIN AND ISOLATION JOINTS.

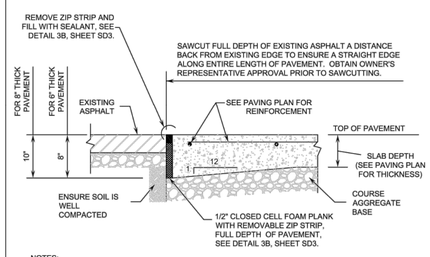
3B SD4 DRIVEWAY TRENCH DRAIN PLAN
NTS

NOTES:
1. TRENCH DRAIN TO BE ISOLATED ON BOTH SIDES WITH ISOLATION JOINT. SEE DETAIL 5, SHEET SD3
2. 2'-0" (MIN) CLEARANCE BETWEEN EDGE OF TRENCH DRAIN AND ISOLATION JOINTS.
3. CURBING BETWEEN ISOLATION JOINTS TO BE A MONOLITHIC POUR, INSTALLED AND FORMED AT TIME OF TRENCH DRAIN CONCRETE. SEE DETAIL 4, SHEET SD1.
4. TRENCH DRAIN TO EXTEND TO FACE OF CURB.



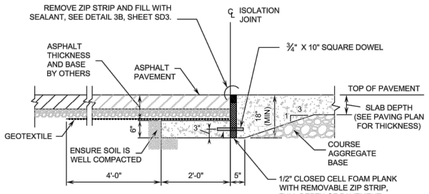


4 SD4 DISPENSER ISLAND SECTION
NTS



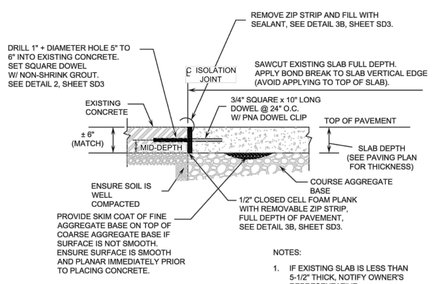
NOTES:
1. REFER TO LOCAL JURISDICTION REQUIREMENTS FOR SPECIFIC CONNECTION DETAILS.

5 SD4 CONCRETE / EXISTING ASPHALT SECTION
NTS



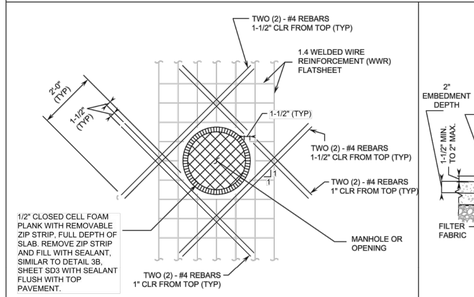
NOTES:
1. REFER TO LOCAL JURISDICTION REQUIREMENTS FOR SPECIFIC CONNECTION DETAILS.

5A SD4 CONCRETE / NEW ASPHALT SECTION
NTS

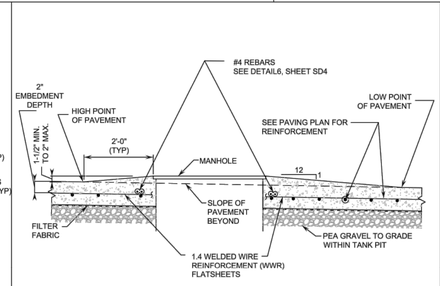


NOTES:
1. IF EXISTING SLAB IS LESS THAN 5-1/2" THICK, NOTIFY OWNER'S REPRESENTATIVE.

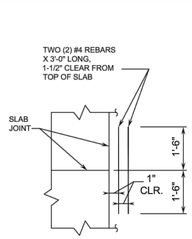
5B SD4 CONCRETE / EXISTING CONCRETE SECTION
NTS



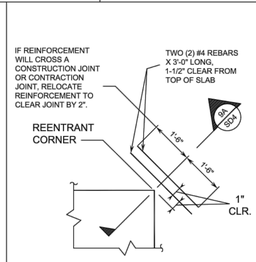
6 SD4 TANK MANHOLE PLAN
NTS



6A SD4 TANK MANHOLE SECTION
NTS

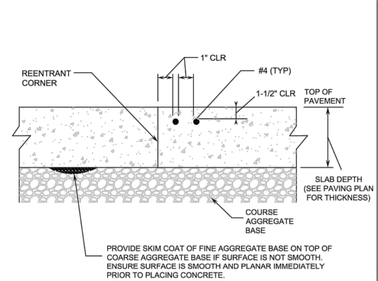


7 SD4 DISCONTINUOUS SLAB REINFORCEMENT JOINT DETAIL
NTS

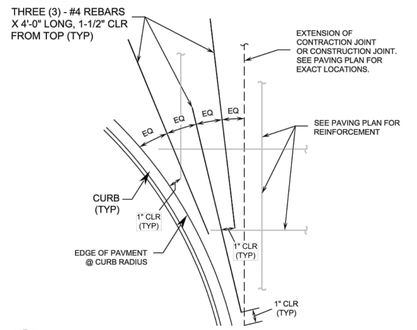


TYPICAL REENTRANT CORNER DETAIL

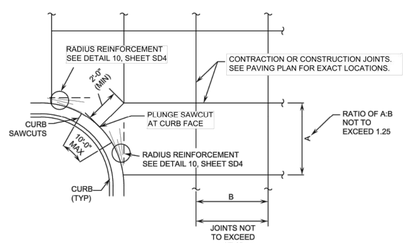
8 SD4 REENTRANT CORNER DETAIL
NTS



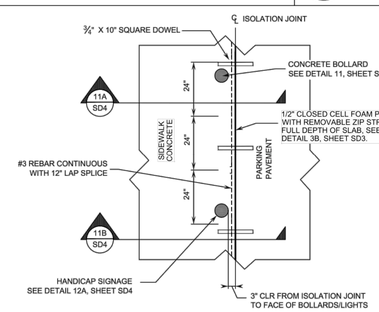
8A SD4 REENTRANT CORNER SECTION
NTS



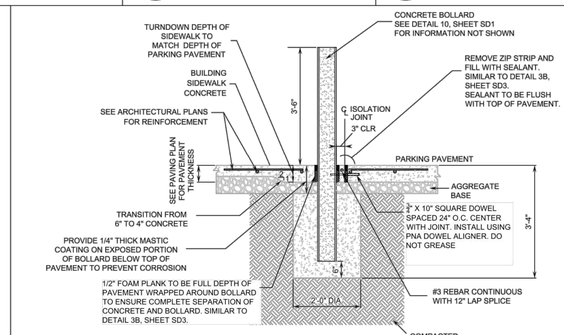
9 SD4 RADIUS REINFORCEMENT DETAIL
NTS



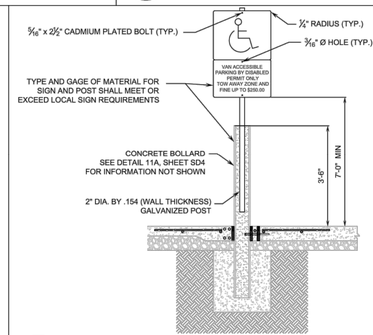
10 SD4 JOINT SPACING DETAIL PARTIAL PLAN (TYP)
NTS



11 SD4 ISOLATION JOINT @ SIDEWALK PARTIAL PLAN
NTS



11A SD4 BOLLARD @ SIDEWALK SECTION
NTS



NOTES:
1. REFER TO LOCAL JURISDICTION REQUIREMENTS FOR SPECIFIC DETAILS.
2. CONTRACTOR SHALL VERIFY ALL THE REQUIRED INFORMATION NECESSARY AT EACH SIGN WITH LOCAL AUTHORITIES PRIOR TO PURCHASING.

11B SD4 HANDICAP SIGNAGE DETAIL
NTS

NO.	DATE	BY
1	10/27/22	NF

PHASE 2 BID PLANS
REVISION

BOHLER
211 PERIMETER CENTER PKWY NE, SUITE 425
ATLANTA, GEORGIA 30346
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GA@BohlerEng.com

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RaceTrac

RACETRAC PETROLEUM, INC.
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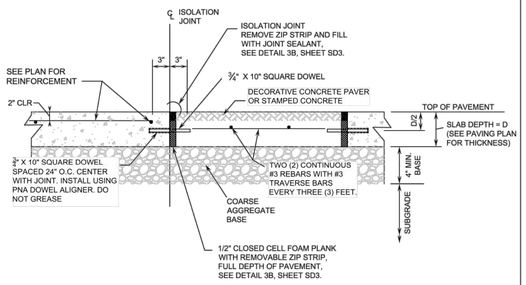
ATLANTA, GA 30339
(404) 857-6165

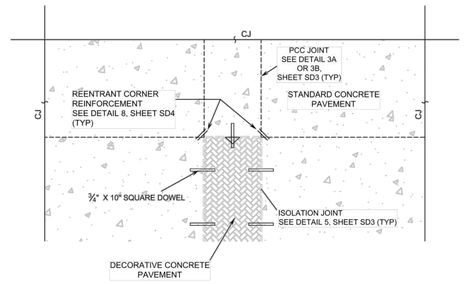
RACETRAC STANDARD DETAILS

4443 OLD DUNN COURT
ELLENWOOD, GA 30294

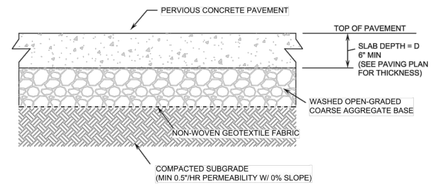
DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	###
PROJECT No: GA204012	
SD4	1
SHEET NO.	REVISION



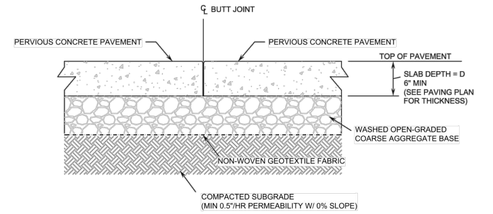
1 SD5 DECORATIVE PAVER SECTION DETAIL
NTS



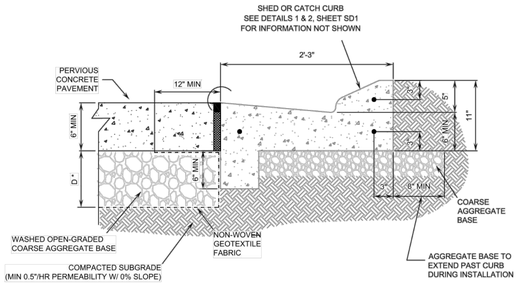
2 SD5 DECORATIVE PAVER PARTIAL PLAN
NTS



3 SD5 PERVIOUS CONCRETE DETAIL
NTS

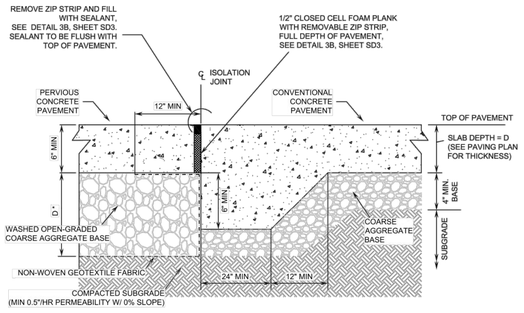


4 SD5 PERVIOUS CONCRETE - BUTT JOINT DETAIL
NTS



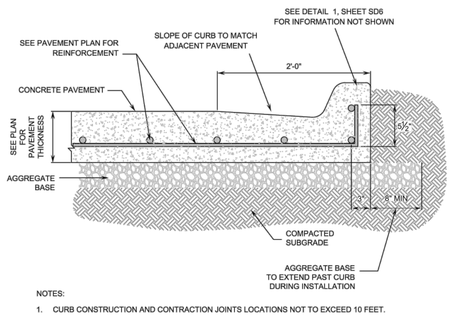
D * = DEPTH OF AGGREGATE DETERMINED BY STORAGE NEEDS BASED ON % OF POROSITY OF AGGREGATE RESERVIOR

5 SD5 PERVIOUS CONCRETE @ CURB DETAIL
NTS



D * = DEPTH OF AGGREGATE DETERMINED BY STORAGE NEEDS BASED ON % OF POROSITY OF AGGREGATE RESERVIOR

6 SD5 PERVIOUS CONCRETE / CONVENTIONAL CONCRETE DETAIL
NTS



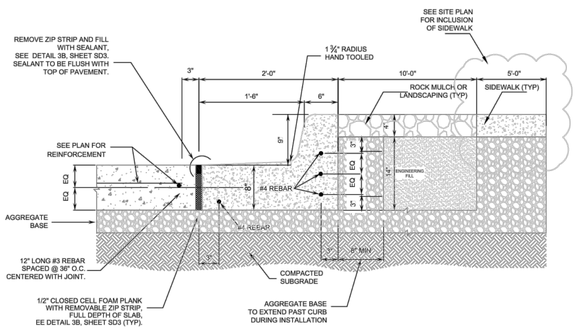
NOTES:

1. CURB CONSTRUCTION AND CONTRACTION JOINTS LOCATIONS NOT TO EXCEED 10 FEET.
2. SAWCUT CONTRACTION JOINTS 1/8" WIDE BY 1-1/2" DEEP AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT RAVELING OR DISLODGING OF AGGREGATES.
3. SAWCUT CONSTRUCTION JOINTS 1/8" WIDE BY 1" DEEP, SIMILAR TO DETAIL 9A, SHEET SD3. VERIFY JOINT LOCATIONS WITH THE OWNER'S REPRESENTATIVE.
4. THIS CURB TYPE IS TO BE USED ALONG THE CURB LINE ADJACENT TO THE DRIVEWAY TRENCH DRAINS. SEE PLAN FOR LOCATIONS.

7 SD5 MONOLITHIC CURB (L-BACK) DETAIL
NTS

NOTE TO CIVIL ENGINEERING COMPANY

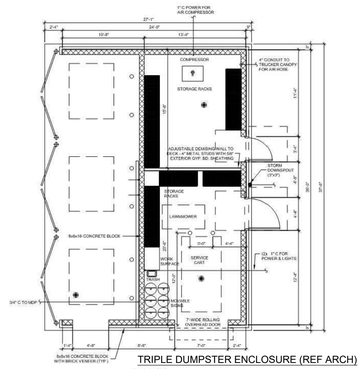
FOR DETAILS 5 & 6, SHEET SD5, ENGINEER TO DETERMINE DEPTH OF AGGREGATE BASE PER NOTE "D*".



NOTES:

1. CURB CONSTRUCTION AND CONTRACTION JOINTS LOCATIONS NOT TO EXCEED 10 FEET.
2. SAWCUT CONTRACTION JOINTS 1/8" WIDE BY 1-1/2" DEEP AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT RAVELING OR DISLODGING OF AGGREGATES.
3. SAWCUT CONSTRUCTION JOINTS 1/8" WIDE BY 1" DEEP, SIMILAR TO DETAIL 3A, SHEET SD3.
4. VERIFY JOINT LOCATIONS WITH THE OWNER'S REPRESENTATIVE.
5. USE THIS DETAIL WHEN ADJACENT PAVEMENT SLOPES AWAY FROM CURBING.
6. DETAIL ONLY TO BE USED FOR THE BACK CURB OF TRUCK PARKING AREAS, NOT ALONG THE SIDES

7 SD5 TRUCK PARKING CURB
NTS



TRIPLE DUMPSTER ENCLOSURE (REF ARCH)
VERSION 2

NO.	BY	DATE
1	NF	10/27/22

PHASE 2 BID PLANS
REVISION

BOHLER
211 PERIMETER CENTER PKWY NE, SUITE 425
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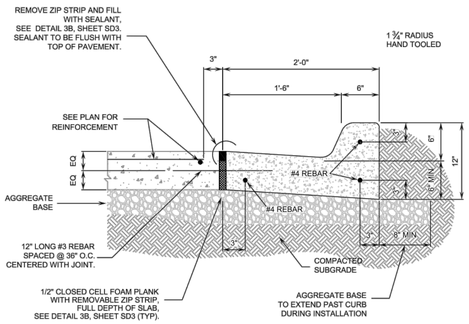
RACETRAC STANDARD DETAILS

4443 OLD DUNN COURT
ELLENWOOD, GA 30294

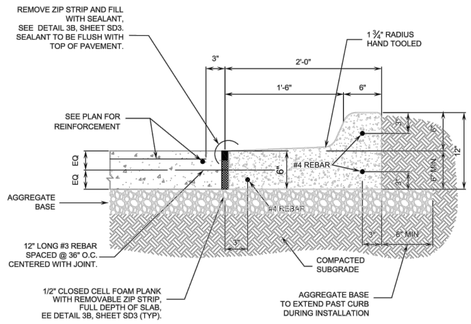
DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	###
PROJECT No: GA204012	
SD5	1
SHEET NO.	REVISION



NOTES:

1. CURB CONSTRUCTION AND CONTRACTION JOINTS LOCATIONS NOT TO EXCEED 10 FEET.
2. SAWCUT CONTRACTION JOINTS 1/8" WIDE BY 1-1/2" DEEP AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT RAVELING OR DISLODGING OF AGGREGATES.
3. SAWCUT CONSTRUCTION JOINTS 1/8" WIDE BY 1" DEEP, SIMILAR TO DETAIL 3A, SHEET SD3.
4. VERIFY JOINT LOCATIONS WITH THE OWNER'S REPRESENTATIVE.

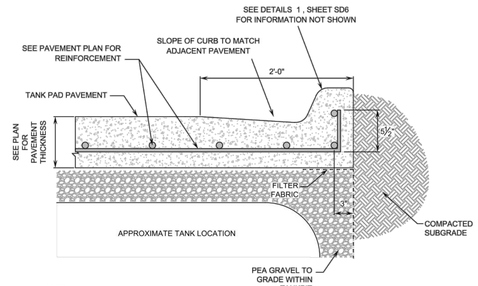
1 SD6 CATCH CURB [24"] DETAIL @ CONCRETE SLAB — NTS



NOTES:

1. CURB CONSTRUCTION AND CONTRACTION JOINTS LOCATIONS NOT TO EXCEED 10 FEET.
2. SAWCUT CONTRACTION JOINTS 1/8" WIDE BY 1-1/2" DEEP AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT RAVELING OR DISLODGING OF AGGREGATES.
3. SAWCUT CONSTRUCTION JOINTS 1/8" WIDE BY 1" DEEP, SIMILAR TO DETAIL 3A, SHEET SD3.
4. VERIFY JOINT LOCATIONS WITH THE OWNER'S REPRESENTATIVE.
5. USE THIS DETAIL WHEN ADJACENT PAVEMENT SLOPES AWAY FROM CURBING.

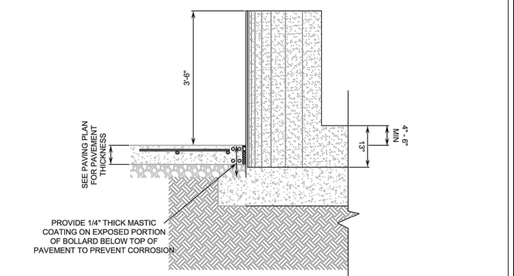
2 SD6 SHED CURB [24"] DETAIL @ CONCRETE SLAB — NTS



NOTES:

1. CURB CONSTRUCTION AND CONTRACTION JOINTS LOCATIONS NOT TO EXCEED 10 FEET.
2. SAWCUT CONTRACTION JOINTS 1/8" WIDE BY 1-1/2" DEEP AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT RAVELING OR DISLODGING OF AGGREGATES.
3. SAWCUT CONSTRUCTION JOINTS 1/8" WIDE BY 1" DEEP, SIMILAR TO DETAIL 3A, SHEET SD3. VERIFY JOINT LOCATIONS WITH THE OWNER'S REPRESENTATIVE.
4. THIS CURB TYPE IS TO BE USED ALONG THE CURB LINE ADJACENT TO THE TANK PAVEMENT. SEE PLAN FOR LOCATION.
5. USE THIS CURB TYPE WHEN TANK ARE ADJACENT TO CURB IN EDO AREA

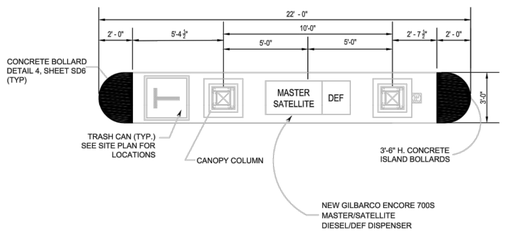
3 SD6 TANK AREA CURB DETAIL — NTS



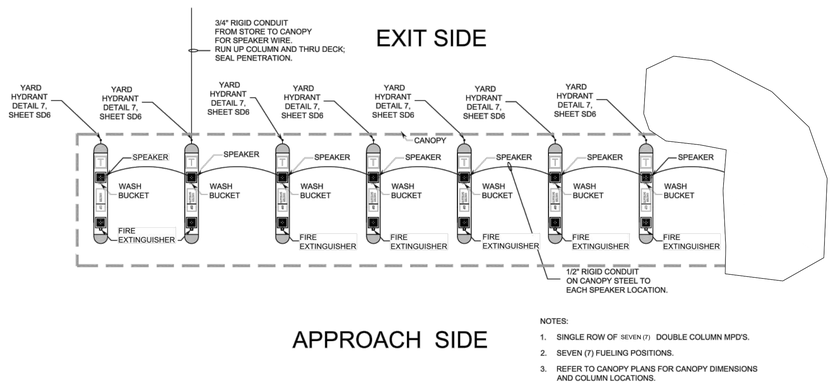
NOTES:

1. BUMPER POSTS TO BE PLUMB AND ALIGNED IN A STRAIGHT LINE AND FILLED WITH CONCRETE.
2. TOPS TO BE GROUND SMOOTH W/ SQUARE EDGE, THE PRIMED WITH "END RUST" BY DURO AND PAINTED WITH INDUSTRIAL OIL BASED ENAMEL. COLOR TO MATCH DECORATIVE LIGHT POLES.
3. REFER TO PAVING PLAN FOR EXACT CONCRETE THICKNESS.
4. REFER TO PAVING PLAN FOR CONCRETE COMPRESSIVE STRENGTH & SUBGRADE COMPACTION REQUIREMENTS.

4 SD6 DIESEL CANOPY BOLLARD DETAIL — NTS



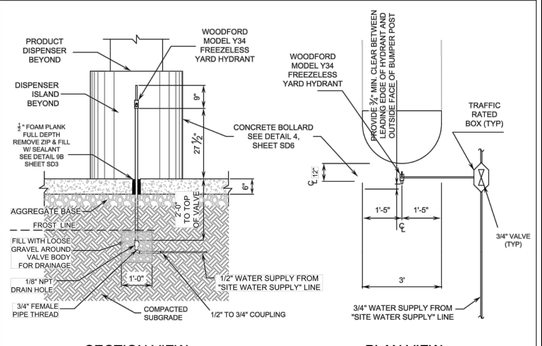
5 SD6 EDO DISPENSER ISLAND DETAIL — NTS



NOTES:

1. SINGLE ROW OF SEVEN (7) DOUBLE COLUMN MPD'S.
2. SEVEN (7) FUELING POSITIONS.
3. REFER TO CANOPY PLANS FOR CANOPY DIMENSIONS AND COLUMN LOCATIONS.

6 SD6 EDO CANOPY ACCESSORIES LAYOUT — NTS



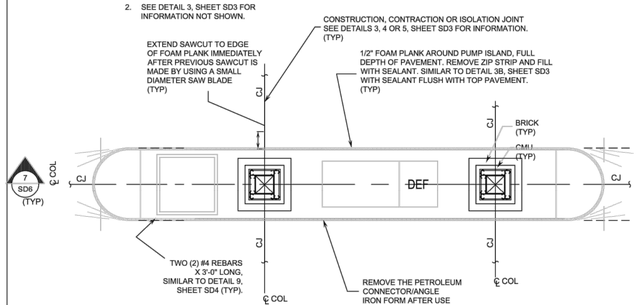
NOTES:

1. SEE "SITE PLAN" FOR EXACT LOCATIONS.
2. REFER TO PAVING PLAN FOR EXACT CONCRETE THICKNESS.
3. REFER TO PAVING PLAN FOR CONCRETE COMPRESSIVE STRENGTH & SUBGRADE COMPACTION REQUIREMENTS.

7 SD6 YARD HYDRANT DETAIL — NTS

NOTES:

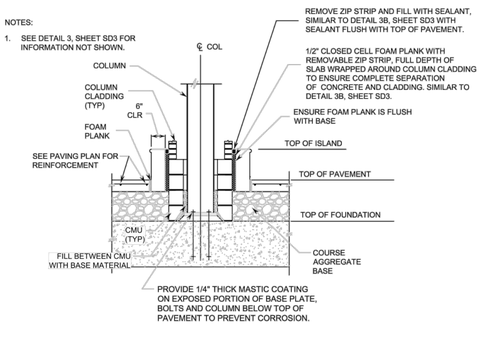
1. SEE DETAIL 8, SHEET SD6 FOR ISLAND LAYOUT DIMENSIONS.
2. SEE DETAIL 3, SHEET SD3 FOR INFORMATION NOT SHOWN.



8 SD6 CONCRETE DETAIL @ DISPENSER ISLAND — NTS

NOTES:

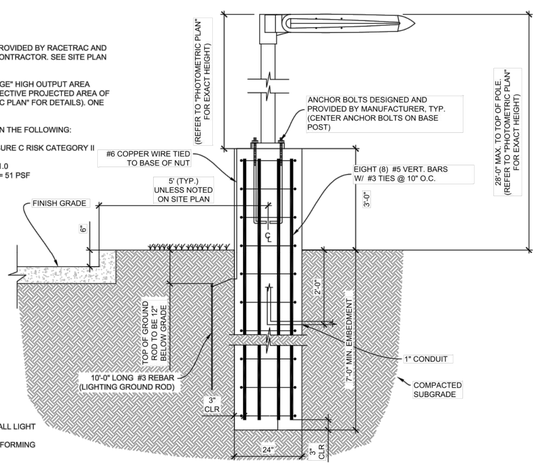
1. SEE DETAIL 3, SHEET SD3 FOR INFORMATION NOT SHOWN.



9 SD6 CANOPY COLUMN SECTION WITH COLUMN CLADDING — NTS

NOTES:

1. LIGHT POLES TO BE SPALDING, PROVIDED BY RACETRAC AND TO BE INSTALLED BY GENERAL CONTRACTOR. SEE SITE PLAN FOR POLE LOCATIONS.
2. LIGHT FIXTURES TO BE CREE "EDGE" HIGH OUTPUT AREA LUMINAIRE WITH A MAXIMUM EFFECTIVE PROJECTED AREA OF 2.0 S.F. (REFER TO "PHOTOMETRIC PLAN" FOR DETAILS). ONE LIGHT FIXTURE PER POLE.
3. WIND DESIGN CRITERIA BASED ON THE FOLLOWING:
   A. ASCE 7-10
   B. Vult=140 MPH WITH EXPOSURE C RISK CATEGORY II
   C. Vasd=110 MPH
   D. IMPORTANCE FACTOR I = 1.0
   E. DESIGN WIND PRESSURE = 51 PSF



SITE LIGHTING SECTION
140 MPH WIND (VULT)

10 SD6

1. LIGHT POLES SHALL MEET 110 MPH WIND (Vasd); 140 MPH (Vult).
2. CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH (f'c) OF 3,500 PSI FOR ALL LIGHT POLE FOOTINGS.
3. ALL REINFORCING STEEL SHALL BE NEW DOMESTIC DEFORMED BILLET STEEL CONFORMING TO ASTM A-615 GRADE 60.
4. CONCRETE ABOVE FINISH GRADE TO BE SMOOTH WITH RUBBED FINISH.
5. CONCRETE LIGHT POLE BASES TO BE PAINTED TO MATCH BOLLARD.

NO.	BY	DATE
1	NF	10/27/22
PHASE 2 BID PLANS	REVISION	

BOHLER
211 PERIMETER CENTER PKWY NE, SUITE 425
ATLANTA, GEORGIA 30346
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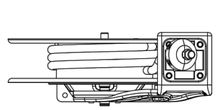
ATLANTA, GA 30339
(404) 857-6165

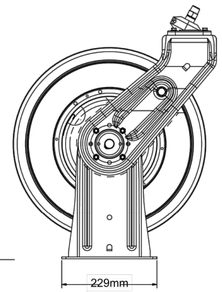
RACETRAC STANDARD DETAILS

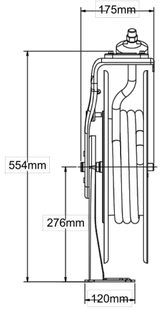
4443 OLD DUNN COURT

ELLENWOOD, GA 30294

DRAWN-BY	DW / NF
DATE	10/27/2022
SCALE	NTS
PROJECT No: GA204012	
SD6	1
SHEET NO.	REVISION





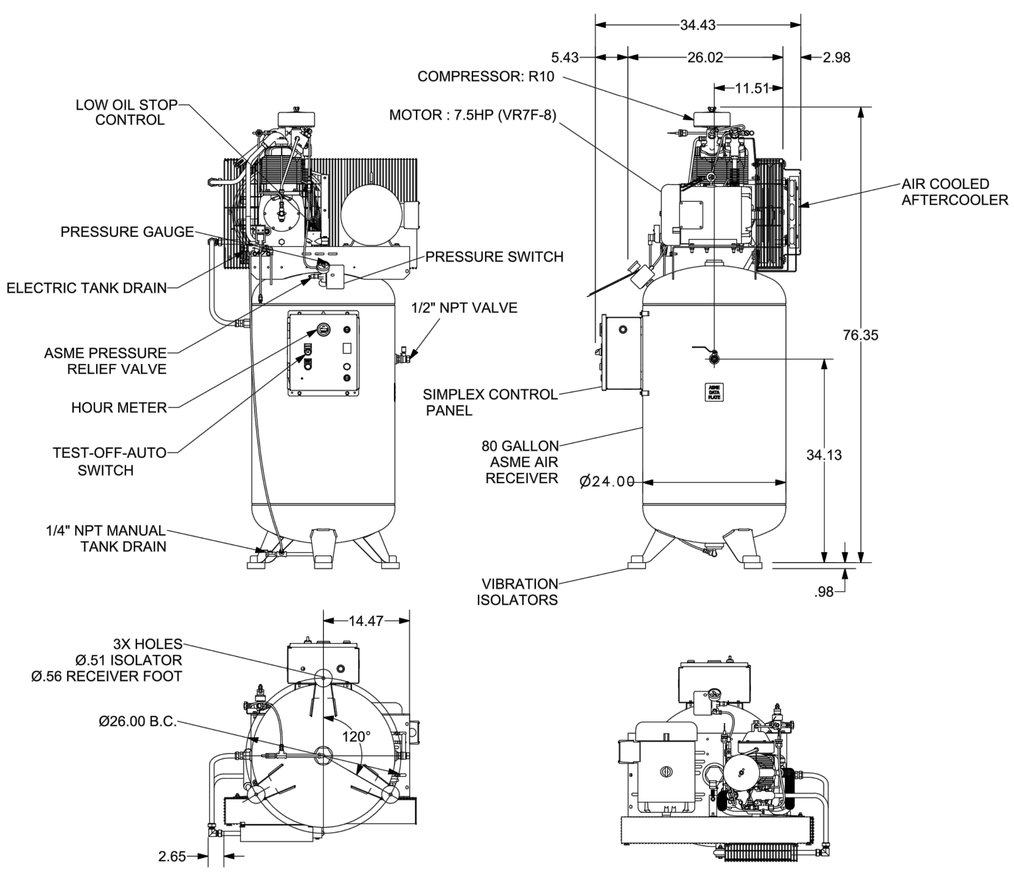


METRIC - ASME Y14.5M
UNLESS OTHERWISE NOTED: DIMENSIONS ARE IN MILLIMETERS SILICONE-FREE STD 4.1206 DIM & TOL STD 1.0402 & ASME Y14.5M - 1994 TOLERANCES: SEE GRACO STANDARDS CENTERLINE VARIANCE STD 1.0406 HOLES STD 1.0407 SHEET METAL STD 4.0109 PLATED & HT TR PARTS STD 1.0409 BURRS & EDGES STD 1.0420 THREADS STD 1.0425 SURFACE ROUGHNESS STD 1.0445
DECIMALS X .X .XX ANGLES ±1 ±0.5 ±0.20 ±0.5°

GRACO

1 / SD7 SERIES F - AIR HOSE REEL

NOTES:
1.NTS; PRINT FOR REFERENCE ONLY.
2. SEE MANUAL FOR MOUNTING DIMENSIONS



2 / SD7 0800-OUTLINE-BARE UNIT, 80GL ELECTRIC

NOTES:
1. NTS
2. SPECIFICATIONS AND DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE OR OBLIGATION.
3. ALL DIMENSIONS ARE IN INCHES.

FINISH OF CHAMFERS AND FILLETS TO CONFORM TO ROUGHEST ADJACENT AREA.

SURFACE ROUGHNESS MAXIMUM PER ASME B46.1. FULL THREAD DEPTHS ARE MINIMUM.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

TOL. ON DECIMALS: .X = ± .05
TOL. ON DECIMALS: .XX = ± .02
TOL. ON DECIMALS: .XXX = ± AS SPECIFIED
TOL. ON ANGLES: = ± 0'-30'

THIRD ANGLE PROJECTION

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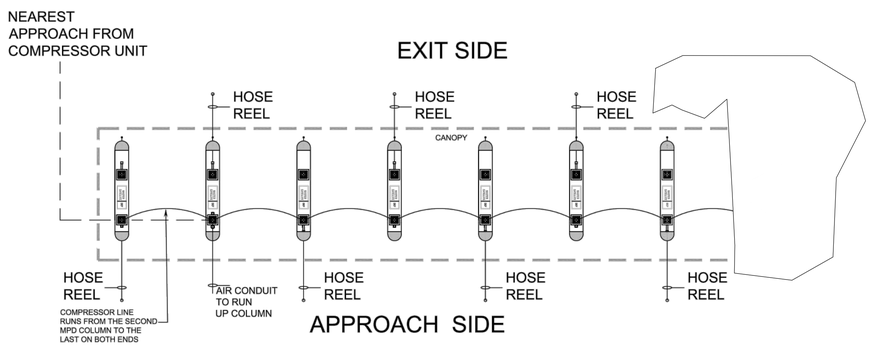
DIMENSIONING AND TOLERANCING PER ASME Y14.5-2009 THREADS PER ASME B1.1 GAGING SYSTEM 21 U.O.S., ANSI B1.20.1 & B1.20.3

Gardner Denver

Gardner Denver Inc.
Quincy, IL.



3 / SD7 EDO CANOPY - AIR COMPRESSOR/HOSE LAYOUT

NOTES:
1. NTS
2. HOSE REEL LOCATION ALTERNATES FROM TO APPROACH SIDE
3. REFERENCE 6/SD6 FOR ALL OTHER ACCESSORY LAYOUTS

NO.	BY	DATE
1	NF	10/27/22

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RACETRAC STANDARD DETAILS

4443 OLD DUNN COURT
ELLENWOOD, GA 30294

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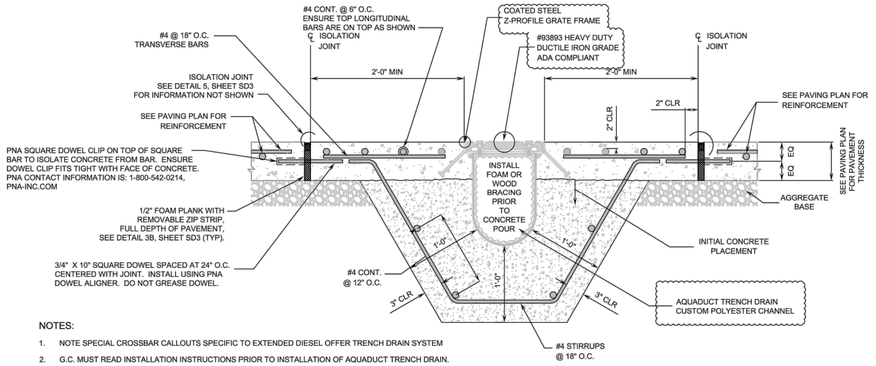
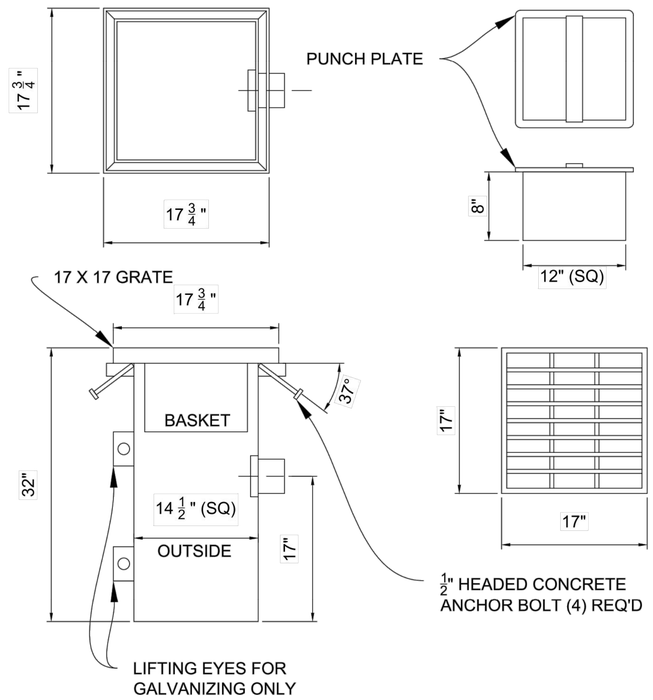
SCALE	NTS
PROJECT No: GA204012	
SD7	1
SHEET NO.	REVISION



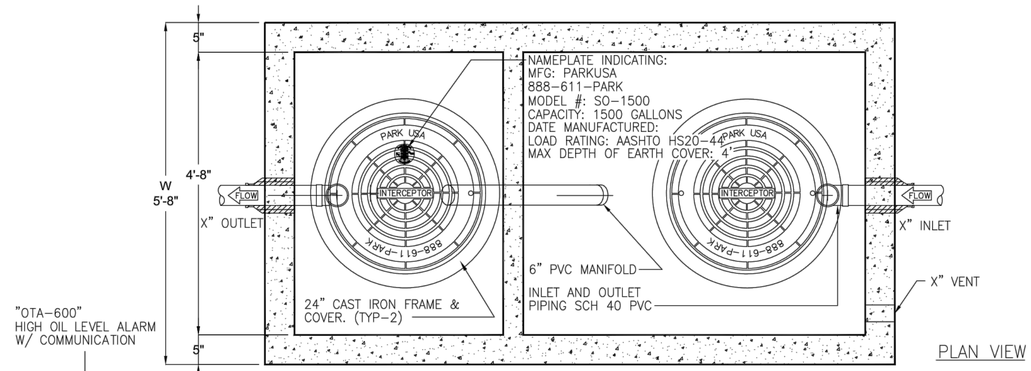
NOTES:

1. NOTE SPECIAL CROSSBAR CALLOUTS SPECIFIC TO EXTENDED DIESEL OFFER TRENCH DRAIN SYSTEM
2. G.C. MUST READ INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION OF AQUADUCT TRENCH DRAIN.
3. REFER TO DETAIL 6, SHEET SD2 FOR BRACING RECOMMENDATIONS.
4. SOME PROJECTS MAY HAVE MULTIPLE TRENCH DRAINS ON SITE. (REFER TO "GRADING PLAN" FOR EXACT LOCATIONS.)
5. EACH TRENCH DRAIN IS INDIVIDUALLY DESIGNED AND SIZED BY AQUADUCT, INC. (REFERE TO DESIGN SPECS FOR EXACT SIZING.)
6. REFERENCE (6 / SD2) FOR BRACING DETAILS

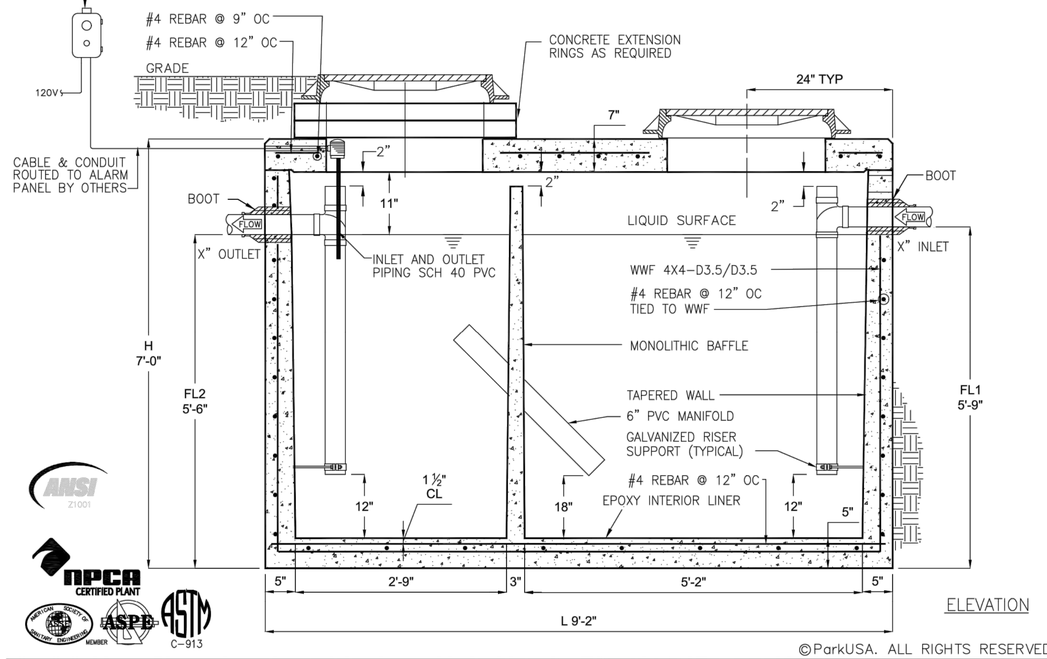
1 / SD8 TYP. CONCRETE DETAIL FOR RT EXTENDED DIESEL OFFER AQUADUCT CUSTOM 8" TRENCH DRAIN SYSTEM
NTS



2 / SD8 DIESEL ISLAND CATCH BASIN (TYP.)
NTS



PLAN VIEW



ELEVATION

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SPECIFICATIONS

CONCRETE: CLASS I/II CONCRETE WITH DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. UNITS IS MONOLITHIC CONSTRUCTION AT FLOOR, FIRST STAGE OF WALL AND BAFFLE WITH SECTIONAL RISER TO REQUIRED DEPTH. GROSS EMPTY WEIGHT OF APPROXIMATELY 13,250 LBS. CONCRETE MATERIAL REQUIREMENTS SHALL COMPLY WITH THE "MATERIALS AND MANUFACTURERS SECTION OF ASTM C1613".

REINFORCEMENT: GRADE 60 REINFORCED WITH STEEL REBAR CONFORMING TO ASTM A615 ON REQUIRED CENTERS OR EQUAL. STRUCTURAL DESIGN IS BASED ON AASHTO HS-20 LOADING. REBAR #4, WWF 4X4-D3.5/D3.5

C.I. CASTINGS: MANHOLE FRAMES, COVERS, OR GRATES ARE MANUFACTURED OF GREY CAST IRON CONFORMING TO ASTM A48 CLASS 30. MANHOLE SHALL BAVE 24 INCH INSIDE DIAMETER AND BE TRAFFIC DUTY.

ENGINEERING DATA

INTERCEPTOR IS STRUCTURALLY AND HYDRAULICALLY ENGINEERED. NOMINAL LIQUID CAPACITY IS 1500 GALLONS. MANUFACTURER SHALL PROVIDE ENGINEER CERTIFIED SUBMITTAL DRAWINGS UPON REQUEST UPON REQUEST. FIELD EXCAVATION AND PREPARATION SHALL BE COMPLETED PRIOR TO DELIVERY OF INTERCEPTOR. USE DIMENSIONAL DATA AS SHOWN.

NOTES:

1. Contractor to place OTA-600 alarm within 500 feet of oil water separator. CAT-5 cable to be run from building data closet to alarm location, the maximum length of the CAT-5 cable is 350 feet.

888.611.PARK
www.parkusa.com
PARK USA
DESIGN FOR WATER

SAND/OIL TRAP SO-1500
MODEL SIZE 1,500 GALLONS

3 / SD8 OIL WATER SEPERATOR
NTS

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211 PERIMETER CENTER PKWY NE, SUITE 425
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RACETRAC STANDARD DETAILS

4443 OLD DUNN COURT

ELLENWOOD, GA 30294

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SD8	1
SHEET NO.	REVISION

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1 SD9 MODEL-1 HYDRO C-0800 MONSTER - LID INSTALL

NTS

ITEM	QTY	PART / ASSEMBLY NUMBER	DESCRIPTION	LENGTH
4	1	MANHOLE-LID-SO#	MUFFIN MONSTER MANHOLE	FRP
3	1	32598R-SO#	GUIDERAIL ASSY: ROUND WALL	304 SST
2	1	A12199-SO#	ULTRAFRAME - CHANNEL	304 SST
1	1	10002 / 1-HYDRO-C-0800	MONSTER GRINDER	DUCTILE IRON

PARTS LIST

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES [mm]

FRACTIONS ± 1/16 | DECIMALS .XX ± .03 .XXX± .005 | ANGLES ± 1/2°

MATERIAL: AS NOTED

FINISH:

DO NOT SCALE DRAWING

CONTRACT NO.

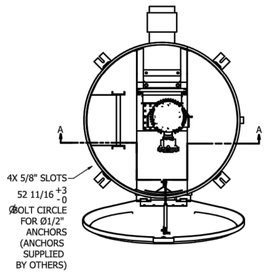
APPROVALS		DATE
DRAWN	P. LOO	5-23-19
CHECKED		
MANUF.		
Q.C.		

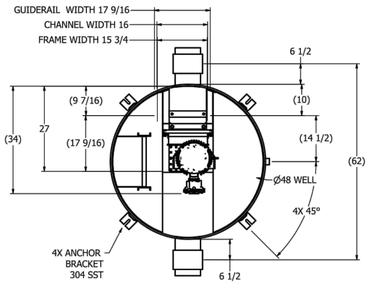
JWC ENVIRONMENTAL
290 PAULARINO AVE, COSTA MESA, CA 92626

MANHOLE MONSTER INSTALLATION
LID TYPE
WITH 4" RECESS IN CHANNEL

SIZE: D | DRAWING NO.: ML-1KXX-CD-SO# | REV: NR1

SCALE: NONE | SHEET 1 OF 2

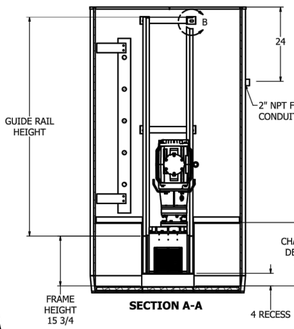


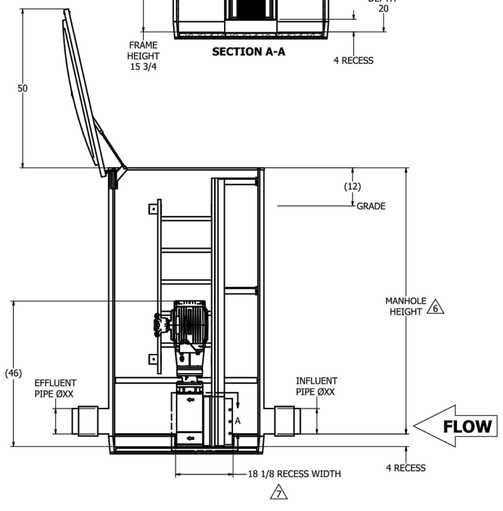


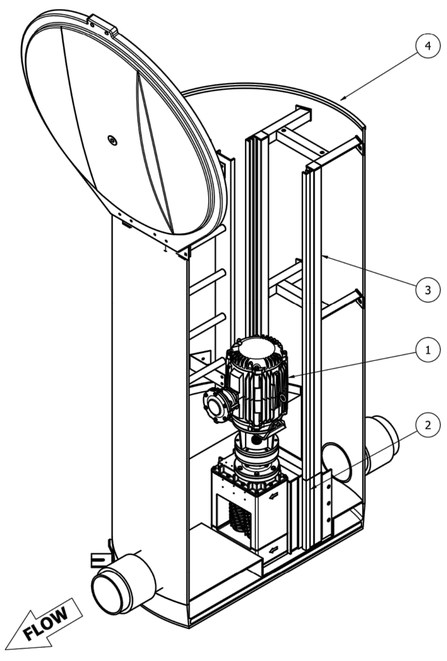
NOTES: UNLESS OTHERWISE SPECIFIED

1. Ø1/2" ANCHOR BOLTS ARE PROVIDED BY OTHERS.
2. SEE CONFIGURATION DRAWING FOR GRINDER DIMENSIONS AND DETAILS.
3. **ALL DIMENSIONS NEED TO BE CONFIRMED TO ENSURE PROPER FIT.**
4. APPROXIMATE WEIGHTS:
   - FRAME: 65 LBS.
   - GUIDERAIL: TBD LBS.
   - GRINDER: TBD LBS.

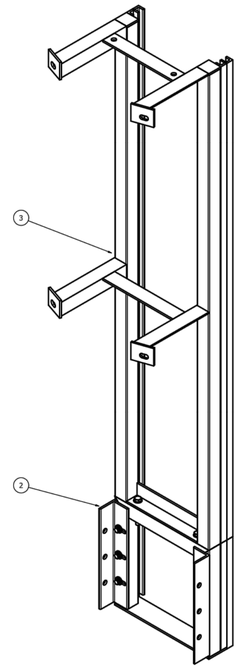
△5 LIFTING CHAIN CAN BE PROVIDED IN ORDER, BUT NO IN DRAWING/BOM.
△6 MINIMUM HEIGHT OF MANHOLE IS 65" (5.5').
△7 RECESS WIDTH ALSO ACTS AS AN INTEGRAL GRIT TRAP PRIOR TO THE GRINDER OR HYDRO UNIT, PERIODIC SOLIDS REMOVAL FRO TEH TRAP IS RECOMMENDED FOR PROPER PERFORMANCE AND INCREASED LIFE OF THE EQUIPMENT.

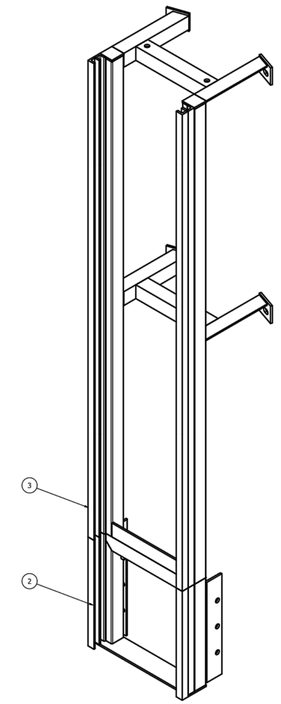


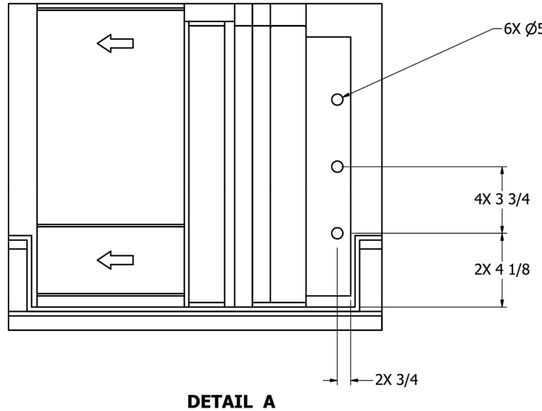




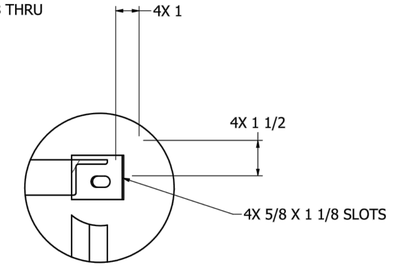
REVISION HISTORY								
ZONE	REV	DESCRIPTION	ECO NO.	DATE	CHKD	PE	MFG	QC
ALL	NR 1	INITIAL RELEASE						







DETAIL A



DETAIL B

JWC ENVIRONMENTAL
290 PAULARINO AVE, COSTA MESA, CA 92626

MANHOLE MONSTER INSTALLATION
LID TYPE
WITH 4" RECESS IN CHANNEL

SIZE: D | DRAWING NO.: ML-1KXX-CD-SO# | REV: NR1

SCALE: NONE | SHEET 2 OF 2

2 SD9 MODEL-1 HYDRO C-0800 MONSTER - MANHOLE INSTALL

NTS

NO.	BY	DATE
1	NF	10/27/22

PHASE 2 BID PLANS — REVISION

BOHLER

211 PERIMETER CENTER PKWY NE, SUITE 425
ATLANTA, GEORGIA 30346
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ATLANTA, GA 30339
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RACETRAC STANDARD DETAILS

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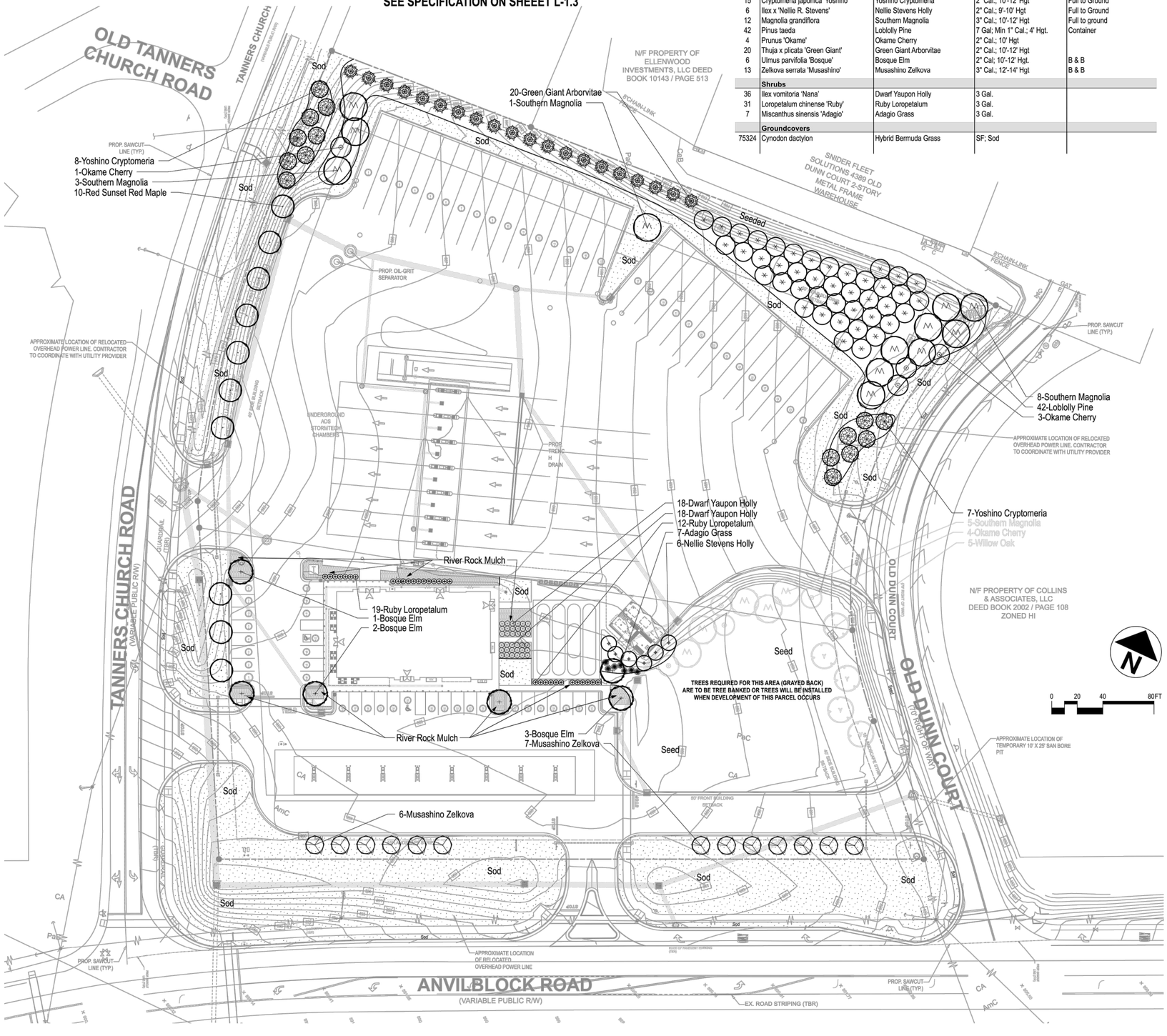
NOTE:
ALL SEEDED AREAS TO BE HYDROSEEDED.
SEE SPECIFICATION ON SHEEET L-1.3



PLANT LIST

Qty	Botanical Name	Common Name	Scheduled Size	Remarks
	Trees			
10	Acer rubrum 'Red Sunset'	Red Sunset Red Maple	3" Cal.; 12'-14' Hgt	B & B; single straight leader
15	Cryptomeria japonica 'Yoshino'	Yoshino Cryptomeria	2" Cal.; 10'-12' Hgt	Full to Ground
6	Ilex x 'Nellie R. Stevens'	Nellie Stevens Holly	2" Cal.; 9'-10' Hgt	Full to Ground
12	Magnolia grandiflora	Southern Magnolia	3" Cal.; 10'-12' Hgt	Full to ground
42	Pinus taeda	Loblolly Pine	7 Gal; Min 1" Cal.; 4' Hgt.	Container
4	Prunus 'Okame'	Okame Cherry	2" Cal.; 10' Hgt	
20	Thuja x plicata 'Green Giant'	Green Giant Arborvitae	2" Cal.; 10'-12' Hgt	
6	Ulmus parvifolia 'Bosque'	Bosque Elm	2" Cal; 10'-12' Hgt.	B & B
13	Zelkova serrata 'Musashino'	Musashino Zelkova	3" Cal.; 12'-14' Hgt	B & B
	Shrubs			
36	Ilex vomitoria 'Nana'	Dwarf Yaupon Holly	3 Gal.	
31	Loropetalum chinense 'Ruby'	Ruby Loropetalum	3 Gal.	
7	Miscanthus sinensis 'Adagio'	Adagio Grass	3 Gal.	
	Groundcovers			
75324	Cynodon dactylon	Hybrid Bermuda Grass	SF; Sod	

LANDSCAPE REQUIREMENTS

A. SITE DENSITY

REQUIRED
1. 6.64 AC @ 20 DU/AC = 132.7 DU
2. No more than 30% of any one species

PROVIDED

	Qty	Tree	DU/Ea	Total
1.	10	Red Sunset Maple 3" Cal @	1.6	16.0 DU
	15	Cryptomeria 2" Cal @	0.8	12.0
	6	Nellie Stevens Holly 2" Cal @	0.8	4.8
	12	Magnolia 3" Cal @	1.6	19.2
	42	Loblolly Pine 7 Gal @	0.4	16.8
	4	Okame Cherry 2" Cal @	0.8	3.2
	0	Willow Oak 3" Cal @	1.6	0.0
	20	Green Giant Arborvitae 2" Cal @	0.8	16.0
	6	Bosque Elm 2" Cal @	0.8	4.8
	13	Musashino Zelkova 3" Cal @	1.6	20.8
	115	Sub total		113.6 DU
		BALA NCE TO BE TREE BANKED OR INSTALLED AT LATER DATE		
	5	Magnolia 3" Cal @	1.6	8.0
	4	Okame Cherry 2" Cal @	0.8	3.2
	5	Willow Oak 3" Cal @	1.6	8.0
	14	Sub total		19.2 DU
		TOTAL		132.8 DU

B. LANDSCAPE AT BUILDING

REQUIRED
1. 8188 SF of Floor Area @ 1 Deciduous Tree/1000 SF = 8 Deciduous Trees
2. 8188 SF of Floor Area @ 1 Needled Evg Tree/1000 SF = 8 Needled Evg Trees
3. 8188 SF of Floor Area @ 1 Ornamental Tree/1000 SF = 8 Ornamental Trees
4. 380 LF of Perimeter Bldg @ 1 Foundation Shrub/20 LF = 19 Shrubs

PROVIDED
1. 6 Bosque Elm + 2 Willow Oak = 8 Deciduous Trees
2. 8 Loblolly Pine = 8 Needled Evg Trees
3. 4 Okame Cherry + 4 Nellie Stevens Holly = 8 Ornamental Trees
4. 19 Loropetalum = 19 Shrubs

C. STREET TREES

REQUIRED
1. 650 LF Tanners Church less 61 LF Drive = 589 @ 1/40 LF = 14.7 or 15 Trees
2. 550 LF Anvil Block less 41 LF Drive = 509 @ 1/40 LF = 12.7 or 13 Trees
3. 479 LF Old Dunn less 65 Drive = 414 @ 1/40 LF = 10.4 or 10 Trees

PROVIDED
1. 10 Red Sunset Maple + 5 Cryptomeria = 15 Trees
2. 13 Musashino Zelkova = 13 Trees
3. 3 Cryptomeria + 7 Magnolia = 10 Trees

LANDSCAPE NOTES

1. Contractor responsible for locating and protecting all underground utilities prior to digging.
2. Contractor responsible for protecting existing trees from damage during construction as shown on plans.
3. General Contractor to install 6" minimum depth of clean, friable topsoil at all planting beds and 2" minimum depth at lawn areas prior to fine grading. See Topsoil specification Sheet L-1.3.
4. All shrub beds (labeled as River Rock Mulch) to be mulched with 6 inch depth of small bulk rock, angular or smooth, 3" to 6" diameter and beige or tan in color. No white rock. All other tree and shrub beds to be mulched with 4 inch depth of double shredded hardwood mulch (brown) as defined in the landscape specifications on Sheet L-1.3.
5. Existing grass in proposed planting areas to be killed and removed and area to be hand raked to remove all rocks and debris larger than 1 inch in diameter prior to planting shrubs or laying sod. Landscape Contractor to provide fine grading. See grading specification Sheet L-1.3.
6. Any existing grass disturbed during construction to be fully removed, regraded and replaced. All tire marks and indentions to be repaired. No exceptions.
7. Landscape Contractor to coordinate with Landscape Architect (L.A.) to have L.A. select (tag) and photograph all plant material prior to shipment of material to site. Photographs to be submitted to L.A. and RaceTrac Project Manager for approval or rejection. Photographs shall show scale and container size of plant material. All trees to be photographed individually or hand-selected by L.A. Shrubs and other plants to be photographed in grouping with one photograph of single plant unmitted also, see submittal specification on Sheet L-1.3
8. Soil to be tested to determine fertilizer and lime requirements and distributed prior to laying sod as directed by L.A. Provide results to L.A. and RaceTrac Project Manager.
9. Sod to be delivered fresh (Cut less than 24 hours prior to arriving on site), laid immediately, rolled, and watered thoroughly immediately after planting. Edge of sod adjacent to mulch beds to be shovel cut as detailed on Sheet L-1.2. All sod to be delivered in largest rolls available. There shall be no gaps between sod joints.
10. All changes to design or plant substitutions are to be authorizedin writing by the Landscape Architect and RaceTrac Construction Project Manager.
11. Planting Mix to be provided as specified in the landscape specifications Sheet L-1.3
12. All landscaping shall be installed in conformance with ANSI Z60.1 the "American Standard for Nursery Stock" and the accepted standards of the American Association of Nurserymen.
13. The Landscape Contractor shall guarantee all plants installed for one full year from date of acceptance by the RaceTrac. All plants shall be alive and at a vigorous rate of growth at the end of the guarantee period. The Landscape Contractor shall not be responsible for acts of God or vandalism.
14. Any plant that is determined dead, in an unhealthy or unsightly condition, lost its shape due to dead branches or other symptoms of poor, non-vigorous growth, as determined by the Landscape Architect, shall be replaced by the Landscape Contractor at no cost to RaceTrac.
15. General Contractor to mound all parking islands 6" - 10" with clean screened topsoil.
16. Prior to installation, the Landscape Contractor shall inspect the subgrade, general site conditions, verify elevations, utility locations, irrigation, approve topsoil provided by General Contractor and observe the site conditions under which the work is to be done. Notify General Contractor of any unsatisfactory conditions, and work shall not proceed until such conditions have been corrected and are acceptable to the Landscape Architect, Landscape Contractor and RaceTrac Construction Manager.
17. Stake all evergreen and deciduous trees.
18. Remove all stakes and guying from all trees after one year from planting.
19. Water all plant material that are newly planted thoroughly twice in first 24 hours and apply mulch immediately.
20. Site to be 100% irrigated in all planting beds and grass area by an automatic underground irrigation system. See Irrigation Plan Sheets L-2.1, L-2.2, L-2.3.
21. All tree protection devices to be installed by General Contractor prior to the start of land disturbance, and maintained until final landscaping.
22. All tree protection areas to be protected from sedimentation.
23. All tree protection fencing to be inspected daily, and repaired or replaced as needed or as instructed by L.A.
24. Landscape Contractor shall provide a 1 year maintenance period under separate contract following acceptance by the Landscape Architect and RaceTrac Construction Manager. Maintenance contract to be assigned through RaceTrac Maintenance Department.
25. Landscape Contractor shall provide a 1year maintenance period under seperare contract following acceptance by the Landscape Architect and RaceTrac Construction Manager. Maintenance contract to be assigned through RaceTrac Maintenance Department.

manley LAND DESIGN
Landscape Architecture
770.442.8171 tel
770.442.1123 fax
Manley Land Design, Inc.
51 Old Canton Street
Alpharetta, Georgia 30009
manleylanddesign.com

RaceTrac
RACETRAC PETROLEUM, INC.
3225 CUMBERLAND BLVD.
ATLANTA, GEORGIA 30339
(770) 431-7600

ANVIL BLOCK
TRAVEL CENTER
4443 Dunn Court
Ellenwood, GA
Clayton County

STATE OF GEORGIA · STEVE L. MANLEY · CERTIFICATE NO. 649 · REGISTERED LANDSCAPE ARCHITECT

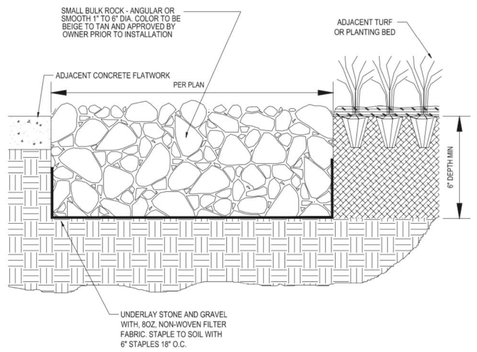
REVISION SCHEDULE

NO.	DATE	DESCRIPTION
3	6.10.21	Site Plan Revision
4	9.8.21	Client Comments
5	10/6/21	Client Comments

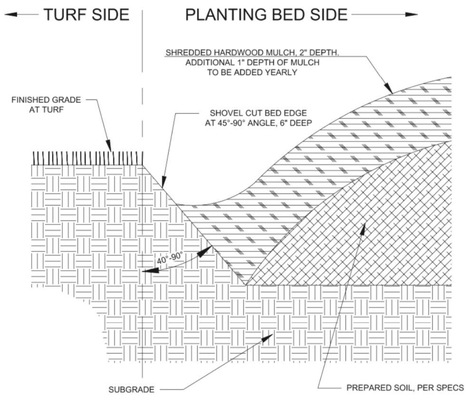
MLD PROJECT #	2020118
DRAWN BY	SLM
CHECKED BY	SLM
DATE	10.20.20

Landscape Plan

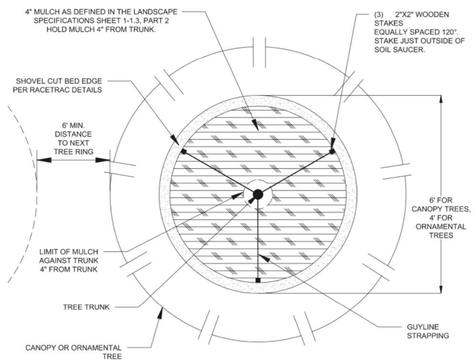
L-1.1



1 L1.2 SIGNATURE RIVER ROCK MULCH
NTS

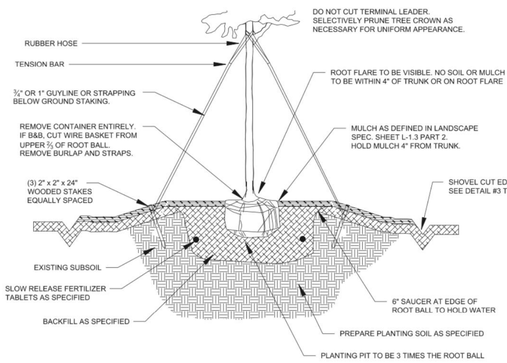


2 L1.2 SHOVEL CUT BED EDGE
NTS



3 L1.2 MULCHING RING AT TREES
NTS

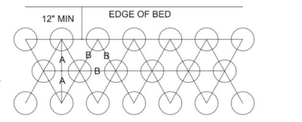
SPACE LEFT BLANK INTENTIONALLY



5 L1.2 STAKED TREE (GENERAL)
NTS

A = ROW SPACING
B = ON CENTER SPACING

SPACE PLANTS IN A TRIANGULAR PATTERNAS SHOWN, SPACED EQUALLY FROM EACHOTHER AT SPACING INDICATED ON PLANT LIST.



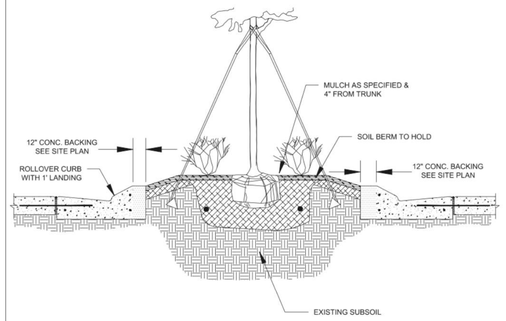
PLANT ROW SPACING 'B'	PLANT ROW SPACING 'A'	PLANTS / 10 SF
8" O.C.	6.9"	26
12" O.C.	10.4"	12
15" O.C.	13.0"	7
18" O.C.	15.7"	5

4" MULCH AS DEFINED IN LANDSCAPE SPECIFICATIONS SHEET L-1.3 PART 2. PLACE MULCH IN BED PRIOR TO PLANTING GROUNDCOVER/ANNUALS.

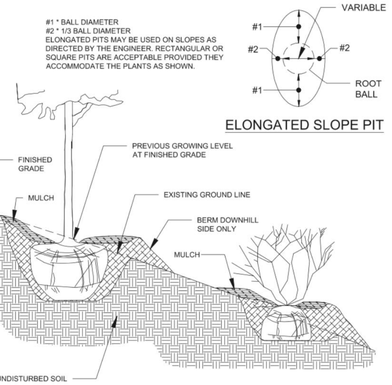
PREPARE GROUNDCOVER BED BY TILLING ENTIRE BED AREA. PROVIDE SOIL MIX AS DEFINED IN THE LANDSCAPE SPECIFICATIONS ON SHEET L-1.3 PART 3

EXISTING SUBGRADE

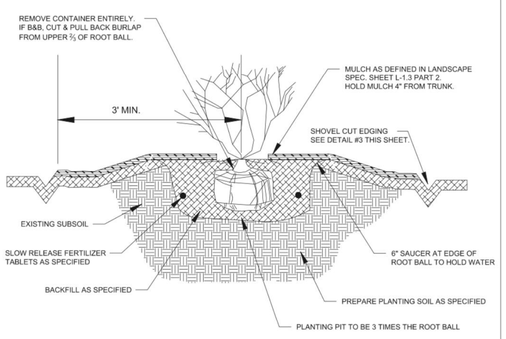
6 L1.2 GROUNDCOVER PLANTING
NTS



7 L1.2 LANDSCAPE ISLAND BED (TYP)
NTS

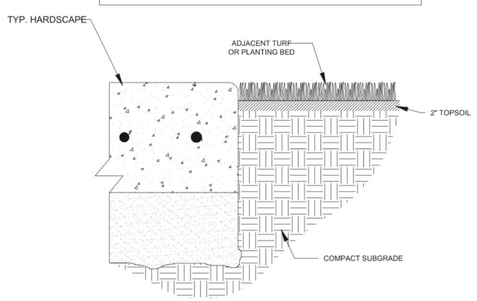


8 L1.2 PLANT PLACEMENT ON SLOPE
NTS

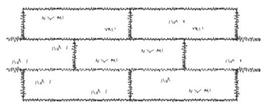


9 L1.2 SHRUB (GENERAL)
NTS

CONTRACTOR TO GRADE AREAS ADJACENT TO SIDEWALK AND PAVEMENT SO THAT INSTALLED SOD OR LANDSCAPING DOES NOT PREVENT POSITIVE DRAINAGE OFF OF SIDEWALK OR PAVEMENT.

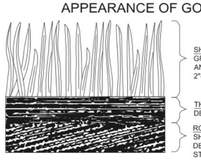


10 L1.2 SOD AGAINST HARDSCAPE
NTS



LAY SOD IN A STAGGERED PATTERN. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER. DO NOT LEAVE SPACES AND DO NOT OVERLAP. A SHARPENED MASON'S TROWEL IS A HANDY TOOL FOR TUCKING DOWN THE ENDS AND TRIMMING PIECES.

APPEARANCE OF GOOD SOD



NOTE: NO ROLLED SOD IN FLORIDA

SOD PLANTING REQUIREMENTS

GRASS	VARIETIES	RESOURCE AREA	GROWING SEASON
BERMUDA GRASS	COMMON	M-L,P,C	WARM WEATHER
	TIFWAY	P,C	
	TIFGREEN	P,C	
	TIFLAWN	P,C	
BAHIA GRASS	PENSACOLA	P,C	WARM WEATHER
CENTIPEDE	-	P,C	WARM WEATHER
ST. AUGUSTINE	COMMON	C	WARM WEATHER
	BITTERBLUE		
	RALEIGH		
ZOYSIA	EMERALD	P,C	WARM WEATHER
	MYER		
TALL FESCUE	KENTUCKY	M-L,P	COOL WEATHER

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	6-12-12	1500	50-100
	SECOND	6-12-12	1000	-
	MAINTENANCE	10-10-10	400	30
WARM SEASON GRASSES	FIRST	6-12-12	1500	50-100
	SECOND	6-12-12	800	50-100
	MAINTENANCE	10-10-10	400	30

FERTILIZER REQUIREMENTS FOR SOIL SURFACE APPLICATION

FERTILIZER TYPE	FERTILIZER RATE (lbs/acre)	FERTILIZER RATE (lbs/sq ft)	SEASON
10-10-10	1000	.025	FALL

11 L1.2 SOD
NTS

AGENDA ITEMS

1. SCHEDULE
   a. ARE THE CONSTRUCTION PROJECT MANAGER, ENGINEERING PROJECT MANAGER, LANDSCAPE CONTRACTOR PRESENT?
   b. HAS A START DATE BEEN TARGETED AND TIME FRAMES LAID OUT?
   c. HAVE THE OTHER REQUIRED ON-SITE MEETINGS BEEN DISCUSSED?
   d. IS EVERYONE ON THE SAME PAGE MOVING FORWARD?
2. TOP SOIL
   a. WHO IS BRINGING IT TO THE SITE?
   b. WHEN SHOULD IT BE BROUGHT TO THE SITE?
   c. WHERE WILL IT BE STOCKPILED?
3. PLAN REVIEW
   a. HAS IT BEEN STRESSED THAT WE PREFER ROLLED SOD OVER SQUARE PALLETS WHERE APPLICABLE?
   b. ARE THE IRRIGATION SLEEVES IN THEIR PROPER LOCATION?
   c. WILL STRUCTURES / UTILITIES PREVENT THE IRRIGATION MAINLINE FROM BEING THREE (3) FEET OFF OF CURB?
   d. IS EVERYONE CLEAR ON HOW THE IRRIGATION TIES IN AND OUT OF THE BUILDING?
4. SUBMITTALS / APPROVALS
   a. IS THE LANDSCAPE CONTRACTOR CLEAR ON WHAT ALL NEEDS TO BE SELECTED (TAGGED) AND SEEN BEFORE SHOWING UP ON SITE?
      a.1. PICTURES OF SHRUBS, SOD, INDIVIDUAL TREES, ROCK MULCH, AND WOOD MULCH.
5. PRICE SIGN LOCATION
   a. HAS THE SIGN SPOTTING BEEN DONE AND IS THE CURRENT LOCATION CONFIRMED?
   b. IF THE LOCATION MAY CHANGE, HAS IT BEEN DISCUSSED HOW EVERYONE WILL BE NOTIFIED?
   c. DOES ANY LANDSCAPING AFFECT THE VISIBILITY OF THE SIGN?
6. MISCELLANEOUS
   a. HAVE CIRCUMSTANCES UNIQUE TO THE SITE BEEN DISCUSSED?
   b. DOES ANYONE AT THE MEETING HAVE ANY QUESTIONS OR CONCERNS ABOUT THEIR RESPONSIBILITIES MOVING FORWARD WITH THE PROJECT?

12 L1.2 LANDSCAPE PRE-CON MEETING AGENA
NTS

manley
LAND DESIGN
Landscape Architecture
770.442.8171 tel
770.442.1123 fax
Manley Land Design, Inc.
51 Old Canton Street
Alpharetta, Georgia 30009
manleylanddesign.com

RaceTrac
RACETRAC PETROLEUM, INC.
3225 CUMBERLAND BLVD.
ATLANTA, GEORGIA 30339
(770) 431-7600

ANVIL BLOCK TRAVEL CENTER
4443 Dunn Court
Ellenwood, GA
Clayton County

STATE OF GEORGIA
STEVE L. MANLEY
CERTIFICATE NO. 1178
REGISTERED LANDSCAPE ARCHITECT

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
3	6.4.21	Site Plan Revision
4	9.8.21	Client Comments
5	10/6/21	Client Comments

MLD PROJECT #	2020118
DRAWN BY	SLM
CHECKED BY	SLM
DATE	10.20.20

Landscape Details

L-1.2

LANDSCAPE SPECIFICATIONS

PART 1 - GENERAL

DESCRIPTION
Provide trees, shrubs, ground covers, sod, and annuals/perennials as shown and specified on the landscape plan. The work includes:

1. Soil preparation.
2. Trees, shrubs, ground covers, and annuals/perennials.
3. Planting mixes.
4. Top Soil, Mulch and Planting accessories.
5. Maintenance.
6. Decorative stone.
7. Permanent Slope Hydroseeding.

Related Work:

1. Irrigation System.

QUALITY ASSURANCE
Plant names indicated; comply with "Standardized Plant Names" as adopted by the latest edition of the American Joint Committee of Horticultural Nomenclature. Names of varieties not listed conform generally with names accepted by the nursery trade. Provide stock true to botanical name and legibly tagged.

Comply with sizing and grading standards of the latest edition of "American Standard for Nursery Stock". A plant shall be dimensioned as it stands in its natural position.

All plants shall be nursery grown under climatic conditions similar to those in the locality of the project for a minimum of 2 years.

Nursery Stock furnished shall be at least the minimum size indicated. Larger stock is acceptable, at no additional cost, and providing that the larger plants will not be cut back to size indicated. Provide plants indicated by two measurements so that only a maximum of 25% are of the minimum size indicated and 75% are of the maximum size indicated.

Before submitting a bid, the Contractor shall have investigated the sources of supply and be satisfied that they can supply the listed plants in the size, variety and quality as specified. Failure to take this precaution will not relieve the Contractor from their responsibility for furnishing and installing all plant materials in strict accordance with the Contract Documents without additional cost to the Owner. The Landscape Architect shall approve any substitutes of plant material, or changes in plant material size, prior to the Landscape Contractor submitting a bid.

DELIVER, STORAGE AND HANDLING
Take all precautions customary in good trade practice in preparing plants for moving. Workmanship that fails to meet the highest standards will be rejected. Spray deciduous plants in foliage with an approved "Anti-Desiccant" immediately after digging to prevent dehydration. Dig, pack, transport, and handle plants with care to ensure protection against injury. Inspection certificates required by law shall accompany each shipment invoice or order to stock. Protect all plants from drying out. If plants cannot be planted immediately upon delivery, properly protect them with soil, wet peat moss, or in a manner acceptable to the Landscape Architect. Water heeled-in plantings daily. No plant shall be bound with rope or wire in a manner that could damage or break the branches. Cover plants transported on open vehicles with a protective covering to prevent wind burn.

PROJECT CONDITIONS
Protect existing utilities, paving, and other facilities from damage caused by landscape operations.

A complete list of plants, including a schedule of sizes, quantities, and other requirements are shown on the drawings. In the event that quantity discrepancies or material omissions occur in the plant materials list, the planting plans shall govern.

The irrigation system will be installed prior to planting. Locate, protect and maintain the irrigation system during planting operations. Repair irrigation system components damaged during planting operations; at the Contractor's expense. Refer to the irrigation specifications, irrigation plan and irrigation details.

Do not begin landscape accessory work before completion of final grading or surfacing.

WARRANTY
Warrant plant material to remain alive, be healthy and in a vigorous condition for a period of 1 year after completion and final acceptance of entire project.

Replace, in accordance with the drawings and specifications, all plants that are dead or, are in an unhealthy, or unsightly condition, and have lost their natural shape due to dead branches, or other causes due to the Contractor's negligence. The cost of such replacement(s) is at the Contractor's expense. Warrant all replacement plants for 1 year after installation.

Warranty shall not include damage, loss of trees, plants, or ground covers caused by fires, floods, freezing rains, lightning storms, winds over 75 miles per hour, winter kill caused by extreme cold, severe winter conditions not typical of planting area, and/or acts of vandalism or negligence on a part of the Owner.

Remove and immediately replace all plants, found to be unsatisfactory during the initial planting installation.

Maintain and protect plant material, lawns, and irrigation until final acceptance is made.

ACCEPTANCE
Inspection of planted areas will be made by the Owner's representative.

1. Planted areas will be accepted provided all requirements, including maintenance, have been complied with and plant materials are alive and in a healthy, vigorous condition.

Upon acceptance, the Contractor shall commence the specified plant maintenance.

CODES, PERMITS AND FEES
Obtain any necessary permits for this Section of Work and pay any fees required for permits.

The entire installation shall fully comply with all local and state laws and ordinances, and with all established codes applicable thereto; and as depicted on the landscape and irrigation construction set.

PERMANENT SLOPE HYDROSEEDING

1. This section specifies a seed mix applied to sloped area requiring sustained vegetation.
2. Product Data: Submit manufacturer's product data and installation instructions. Include required substrate preparation, list of materials, and application rate.

PART 2 - PRODUCTS

MATERIALS
Plants: Provide typical of their species or variety; with normal, densely developed branches and vigorous, fibrous root systems. Provide only sound, healthy, vigorous plants free from defects, disfiguring knots, sun scald injuries, frost cracks, abrasions of the bark, plant diseases, insect eggs, borers, and all forms of infestation. All plants shall have a fully developed form without voids and open spaces. Plants held on storage will be rejected if they show signs of growth during the storage period.

1. Balled and plants wrapped with burlap, to have firm, natural balls of earth of sufficient diameter and depth to encompass the fibrous and feeding root system necessary for full recovery of the plant. Provide ball sizes complying with the latest edition of the "American Standard for Nursery Stock". Cracked or mushroomed balls, or signs of circling roots are not acceptable.
2. Container- grown stock: Grown in a container for sufficient length of time for the root system to have developed to hold its soil together, firm and whole.
   a. No plants shall be loose in the container.
   b. Container stock shall not be pot bound.
3. Plants planted in rows shall be matched in form.
4. Plants larger than those specified in the plant list may be used when acceptable to the Landscape Architect.
   a. If the use of larger plants is acceptable, increase the spread of roots or root ball in proportion to the size of the plant.
5. The height of the trees, measured from the crown of the roots to the top of the top branch, shall not be less than the minimum size designated in the plant list.
6. No pruning wounds shall be present with a diameter of more than 1" and such wounds must show vigorous bark on all edges.
7. Evergreen trees shall be branched to the ground or as specified in plant list.
8. Shrubs and small plants shall meet the requirements for spread and height indicated in the plant list.
   a. The measurements for height shall be taken from the ground level to the height of the top of the plant and not the longest branch.
   b. Single stemmed or thin plants will not be accepted.
   c. Side branches shall be generous, well-twigged, and the plant as a whole well-bushed to the ground.
   d. Plants shall be in a moist, vigorous condition, free from dead wood, bruises, or other root or branch injuries.
9. Permanent Slope Hydroseeding
   a. Pennington Seed Inc. Seed Production – 1280 Atlanta Hwy – Madison, GA 30650, 800-286-6100 (Fax 706-342-8071)
   b. Mixed sustainable slope seed: Slopemaster by Pennington Seed, Inc applied at a minimum rate of 50lbs (1.15lbs/1000 square feet) of the warm season mixture and 100lbs (2.25lbs/1000 square feet) of the cool season mixture with the following characteristics.
      1. Material: Permanent and temporary seed varieties.
      2. Minimum: 5% Durana White Clover.
      3. Inert Material: Less than 1%.
      4. Other Crop Seed: Less than .5%.
      5. Weed Seed: Less than 1%.
      6. Coating: Inoculated with Germax Seed Treatment (Rhizokote XL and Apron XL) and MYCO Advantage coated.
      7. Packaging: 25lb Seatac bags.
   c. Flexterra Flexible Growth Medium Fiber Mulch: Apply according to manufacturer recommendations. This product should be applied at a minimum rate of 3000lbs/acre (70lbs/1000 square feet(.
   d. Fertilizer: A balanced commercial grade fertilizer of 19-19-19 should be applied at a rate of 250lbs per acre (5.5lbs/1000 square feet).
   e. Soil Amendments: The soil amendment Neutra Lime Dry should be applied at a rate of 80lbs per acre (1.85lbs/1000 square feet).
   f. Equipment shall have a built in mechanical agitation systema and operating capacity sufficient to agitate, suspend, and homogenously mix a slurry containing not less than 44 lbs of organic mulching amendment plus fertilizer, chemical additives, and solids for each 150 gallons of water.

ACCESSORIES
Topsoil: Shall be Fertile, friable, natural topsoil of loamy character, without admixture of subsoil material, obtained from a well-drained arable site, reasonably free from clay, lumps, coarse sands, stones, roots, sticks, and other foreign materials, with acidity range of between pH 6.0 and 6.8.

Note: All planting areas shall be cleaned of construction debris (ie. Concrete, rubble, stones, building material, etc.) prior to adding and spreading of the top soil.

1. Sod Areas: Spread a minimum 4" layer of top soil and rake smooth.
2. Planting bed areas: Spread a minimum 4" layer of top soil and rake smooth.
3. Landscape Islands/Medians: Fracture/loosen existing subgrade to a minimum 24" depth. Remove and replace any subgrade unsuitable for planting. Once subgrade is clean of debris and loosened, add topsoil to a minimum berm 4"-6" height above island curbing. Hold soil level down 4" at island curbing to accommodate Mulch installation; mulch shall be flush along back of curb.
4. Annual/Perennial bed areas: Add a minimum of 4" organic matter and till to a minimum 12" depth.
5. At curbing, sidewalk, or landscape bed edges excavate existing material as needed to allow placement of 4" of top soil and 3"-4" of mulch. Mulch should not be at a higher elevation than the surrounding hardscape.

Mulch:
Rock as mulch shall be utilized in all plantings bed areas and in locations as indicated on the plans. Specific rock type selected will be dependent on region and availability, but in general shall meet the following guidelines.

1. Rock Mulch Spec:
   a. Shall be a mix of 2"-5" in size.
   b. In general rock shall be buff to dark brown to gray in color.
   c. Install weed control barrier over sub-grade prior to installing stone. Lap 6" on all sides.
   d. Place stone without damaging weed barrier.
   e. Arrange stones for best appearance and to cover all weed barrier fabric.
   f. Install to an even depth of 3". Use caution during installation not to damage plant material.

When municipalities do not allow rock mulch, hardwood mulch shall be utilized.

2. Hardwood Mulch Spec:
   a. 6 month old well rotted.
   b. double shredded native hardwood bark mulch not larger than 4" in length and ?" in width.
   c. free of wood chips and sawdust.
   d. Install minimum depth of 3" and maximum depth of 4".
      If Pine Straw is called for it shall meet the flowing specifications.
3. Pine straw Spec:
   a. to be fresh harvest and free of debris.
   b. bright in color.
   c. Bales to be wired and tightly bound.
   d. Needles to be dry.
   e. Install minimum depth of 3".

Guying/Staking:

1. Arbortie: Green (or white) staking and guying material to be flat, woven, polypropylene material, ?" wide 900 lb. break strength. Arbortie shall be fastened to stakes in a manner which permits tree movement and supports the tree.
2. Remove Guying/Staking after one year from planting.

Tree Wrap: Tree wraps should be used on young, newly planted thin-barked trees (Cherry, Crabapple, Honey Locust, Linden, Maple, Mountain Ash, Plum) that are most susceptible to sun scald/Sunburn. Standard waterproofed tree wrapping paper, 2-1/2" wide, made of 2 layers of crepe Draft paper weighing not less than 30 lbs. per ream, cemented together with asphalt. Wrap the tree in the fall and leave the wrap in place throughout the winter and early spring. Tree wraps are temporary and no longer needed once trees develop corky bark.

PART 3 – EXECUTION

INSPECTION
Prior to beginning work, the Landscape Contractor shall inspect the subgrade, general site conditions, verify elevations, utility locations, irrigation, approve top soil provided by the General Contractor and observe the site conditions under which the work is to be done. Notify the General Contractor of any unsatisfactory conditions, and work shall not proceed until such conditions have been corrected and are acceptable to the Landscape Contractor.

PREPARATION
Planting shall be performed only by experienced workmen familiar with planting procedures under the supervision of a qualified supervisor.

Locate plants as indicated on the plans or as approved in the field after staking by the Landscape Contractor. If obstructions are encountered that are not shown on the drawings, do not proceed with planting operations. Contact landscape architect or construction project manager to determine new location. Spacing of plant material shall be as shown on the landscape plan.

Excavate circular plant pits with vertical sides, except for plants specifically indicated to be planted in beds. Provide shrub pits at least 12" greater than the diameter of the root system and 24" greater for trees. Depth of pit shall accommodate the root system. Provide undisturbed sub grade to hold root ball at nursery grade as shown on the drawings. Root flare must be visible after planting.

Provide pre-mixed planting mixture for use around the balls and roots of the plants consisting of 50% excavated material and 50% topsoil mix. Add plant fertilizer per manufacturer's recommendation for each cu. yd. of mixture.

Provide pre-mixed ground cover bed planting mixture consisting of 4 parts screened topsoil to 1 part peat moss and plant fertilizer per manufacturer's recommendation for each cu. yd. of mixture.

Drainage Test

Randomly select a representative number of shrub plant pits in each shrub planting area and test for drainage prior to planting. Randomly select a representative number of tree plant pits and test for drainage prior to planting. Fill each selected plant pit with water and let stand for twenty-four (24) hours. Do not proceed with planting where drainage problems are apparent. Report to the Owner's Representative areas which do not drain within twenty-four (24) hours.

Permanent Slope Hydroseeding

1. Substrate Preparation
   a. Examine substrate and conditions where material will be applied. Do not proceed with installation until unsatisfactory conditions are corrected, only apply product to geotechnically stable slopes that have been designed and built to divert the water shed away from the face of the slope, therefore eliminating surface flow energy from above from damaging the face slope.
   b. All slope gradients should be prepared to agricultural standard recommended by the Department of Agricultural within the state where the work is being performed. Agricultural Lime or pelletized lime should be added during the slope preparation stage at the rate of recommended according to soil analysis. Apply agricultural lime or pellet lime at a rate of 2000lbs per acre if no soil analysis has been performed.
   c. Examine related work including irrigation and grading of surface before proceeding with any work and notify the Engineer in writing on conditions which may prevent the proper execution of this work. All grading or tracking on slopes should be performed so that all cleats are running perpendicular to the flow of water down the hill.

INSTALLATION
Set plant material in the planting pit to proper grade and alignment. Set plants upright, plumb, and faced to give the best appearance or relationship to each other or adjacent structure. Set plant material 2" – 3" above the finish grade. No filling will be permitted around trunks or stems. Backfill the pit with topsoil mix and excavated material. Do not use frozen or muddy mixtures for backfilling. Form a ring of soil around the edge of each tree planting pit to retain water. If trees are planted within sodded areas the soil ring shall be minimal for mowing and maintenance purposes.

After balled and wrapped in burlap plants are set, muddle planting soil mixture around bases of balls and fill all voids.

1. Remove all burlap, ropes, and wires from the top 1/3 of the root ball

Space ground cover plants in accordance with indicated dimensions. Adjust spacing as necessary to evenly fill planting bed with indicated quantity of plants. Plant to within 24" of the trunks of trees and shrubs within planting bed and to within 18" of edge of bed.

Mulching:

1. Mulch all planting beds and areas indicated for mulch, with required mulching material; depth of mulch as noted above. Hold mulch back 4" away from tree trunks and shrub stems. Thoroughly water mulched areas. When hardwood mulch is utilized, after watering, rake mulch to provide a uniform finished surface.

Decorative Stone: (when indicated on landscape plan)

1. Install weed control barrier over sub-grade prior to installing stone. Lap 6" on all sides.
2. Place stone without damaging weed barrier.
3. Arrange stones for best appearance and to cover all weed barrier fabric.

Wrapping, guying, staking:

1. Inspect trees for injury to trunks, evidence of insect infestation, and improper pruning before wrapping.
2. Wrapping:
   a. Wrap trunks of all young newly planted trees known to have thin bark. Wrap spirally from bottom to top with specified tree wrap and secure in place.
   b. Overlap 1/3 the width of the tree wrap strip and cover the trunk from the ground to the height of the second branch.
   c. Secure tree wrap in place with twine wound spirally downward in the opposite direction, tied around the tree in at least 3 places in addition to the top and bottom.
   d. Wrap the trees in the fall and leave the wrap in place throughout the winter and early spring.
   e. Tree wraps are temporary and no longer needed once the trees develop corky bark.
3. Staking/Guying:
   a. Stake/guy all trees immediately after lawn sodding operations and prior to acceptance.
   b. Stake deciduous trees 3" caliper and less. Stake evergreen trees under 8'-0" tall.
      1. Stakes are placed in line with prevailing wind direction and driven into undisturbed soil.
      2. Ties are attached to the tree, usually at the lowest branch.
   c. Guy deciduous trees over 3" caliper. Guy evergreen trees 8'-0" tall and over.
      1. Guy wires to be attached to three stakes driven into undisturbed soil, with one stake placed in the direction of the prevailing wind.
      2. Ties are attached to the tree as high as practical.
      3. The axis of the stake should be at 90 degree angle to the axis on the pull of the guy wire.
      4. Remove all guying and staking after one year from planting.

Pruning:

1. Prune branches of deciduous stock, after planting, to balance the loss of roots and preserve the natural character appropriate to the particular plant requirements. in general, remove 1/4 to 1/3 of the leaf bearing buds. remove or cut back broken, damaged, and unsymmetrical growth of new wood.
2. Multiple leader plants: preserve the leader which will best promote the symmetry of the plant. Cut branches flush with the trunk or main branch, at a point beyond a lateral shoot or bud a distance of not less than 1/2 the diameter of the supporting branch. make cut on an angle.
3. Prune evergreens only to remove broken or damaged branches.

Permanent Slope Hydroseeding

1. Strictly comply with manufacturer's installation instructions and recommendations.
2. Mix the seed, soil amendments, and commercial fertilizer with a small amount of the Flexible Growth Medium for visual metering and apply along the areas to be vegetated being sure to apply seed and amendments at the specified rates. Slopemaster warm season seed mixture should be applied during the late spring and summer months at a minimum of 50lbs per acre (a.a5lbs/1000 square feet). The cool season Slopemaster seed mixture should be applied during the fall and early spring at a minimum of 100lbs per acre (2.25lbs/square feet).
3. Mix and apply the Flexible Growth Medium at a rate of 50 lbs per 150 gallons of water over freshly seeded areas. Hydromulch should be applied in multiple directions so that shadowing does not occur and to insure uniformity of the application. Confirm the loading rates with equipment manufacturers. Do not leave seeded surfaces unprotected, especially if precipitation is imminent.
4. Exercise special care to prevent any of the slurry from being sprayed onto any hardscape areas including concrete walks, fences, walls, buildings, etc. Remove all slurry sprayed onto these surfaces immediately.

WORKMANSHIP
During landscape/irrigation installation operations, all areas shall be kept neat and clean. Precautions shall be taken to avoid damage to existing structures. All work shall be performed in a safe manner to the operators, the occupants and any pedestrians.

Upon completion of installation operations, all excess materials, equipment, debris and waste material shall be cleaned up and removed from the site; unless provisions have been granted by the owner to use on-site trash receptacles. Sweep parking and walks clean of dirt and debris. Remove all plant tags and other debris from lawns and planting areas.

Any damage to the landscape, the structure, or the irrigation system caused by the landscape contractor shall be repaired by the landscape contractor without charge to the owner.

MAINTENANCE

1. The contractor shall, maintenance for a period of 30-days after final acceptance of the project landscaping. the contractor must be able to provide continued maintenance if requested by the owner or provide the name of a reputable landscape contractor who can provide maintenance.
2. Maintenance shall include mowing, fertilizing, mulching, pruning, cultivating, weeding, watering, and application of appropriate insecticides and fungicides necessary to maintain plants and lawns free of insects and disease.
   a. Re-set settled plants to proper grade and position. restore planting saucer and adjacent material and remove dead material.
   b. Tighten and repair guy wires and stakes as required. remove guy wires after one year. Guy straps are not to be too tight some slack is required.
   c. Correct defective work as soon as possible after deficiencies become apparent and weather and season permit.
   d. Water trees, plants and ground cover beds within the first 24 hours of initial planting, and not less than twice per week until final acceptance.

Cleaning
Perform cleaning during installation of the work and upon completion of the work. Remove from site all excess materials, soils, debris, and equipment. repair damage resulting from planting operations.

Permanent Slope Hydroseeding

1. Frequent light irrigation will need to be applied to seeded areas if no natural rain events have occurred within one week of hydroseeding. Water should be applied long enough to moisten the soil thoroughly to the depth of the slurry mulch taking care not to super saturate or wash away the slurry and seed.
2. After seed germination has occurred and plants are visible the frequency of irrigation should be cut back with heavier application rates still making sure not to super saturate or wash away the slurry and seed.
3. Repair all seed washings and erosion.
4. Future fertilization should occur whenever applicable at the recommended rate based on soil analysis with a low Nitrogen fertilizer.

RaceTrac Seeding Calendar
Atlanta, Georgia Region

B Best Month P Possible Month

	Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cool Season Grass	Turf-Type Tall Fescue 5 – 6 lb per 1000 SF		P	P						P	B	P	
	Annual Rye Grass (Lolium multiflorum) 5 – 10 lb per 1000 SF	B	P	P								P	B
Warm Season Grass	Zoysia Grass 1 – 2 lb per 1000 SF					B	B	P					
	Bermuda Grass Unhulled: 4 - 6 lb per 1000 SF. Hulled: 1 -2 lbs per 1000 SF.				P	B	B	B	P				
	Centipede Grass 0.25 – 1 lb per 1000 SF					B	B	B	P				

Notes
1 All seeded areas are to be prepped
   a. Clear site of any and all debris including rocks and sticks 1" diameter and larger
   b. Rough Grade entire area to prevent drainage problems
   c. Initial tilling of at least four to six inches is required.
   d. Add 2 inches of topsoil and fine grade
2 Hydroseed all areas to be seeded.
   a. seed, fertilizer, tackifier and mulch sprayed in one pass.
3 Use GEI Works Coir Mat 70 erosion control fabric or equal for slopes 2:1 to 1:1.
   a. Fabric to be staked with biodegradable stakes per manufacturer's instructions.
   b. Fabric is not to be removed. Allow to deteriorate over time.
4 Provide continuous moisture on seeded areas for 10 days while seed germinates and begins to grow.

Cool Season Grasses
Best seeded at temperatures 60 - 75 degrees air temp and planted 45 days before estimated first frost.
Annual Rye Grass
Use as nurse crop in Dec-Jan and as blend with Fescue Nov, Feb or March.

Warm Season Grasses
Spring is optimal seeding time for warm season grasses. Best seeded at 80 degrees air temp or more.
Plant after all danger of frost passes or 90 days before first fall frost.

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Landscape Architecture
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RACETRAC PETROLEUM, INC.
3225 CUMBERLAND BLVD.
ATLANTA, GEORGIA 30339
(770) 431-7600

ANVIL BLOCK
TRAVEL CENTER
4443 Dunn Court
Ellenwood, GA
Clayton County

STATE OF GEORGIA
STEVE L. MANLEY
CERTIFICATE NO. 626
REGISTERED LANDSCAPE ARCHITECT

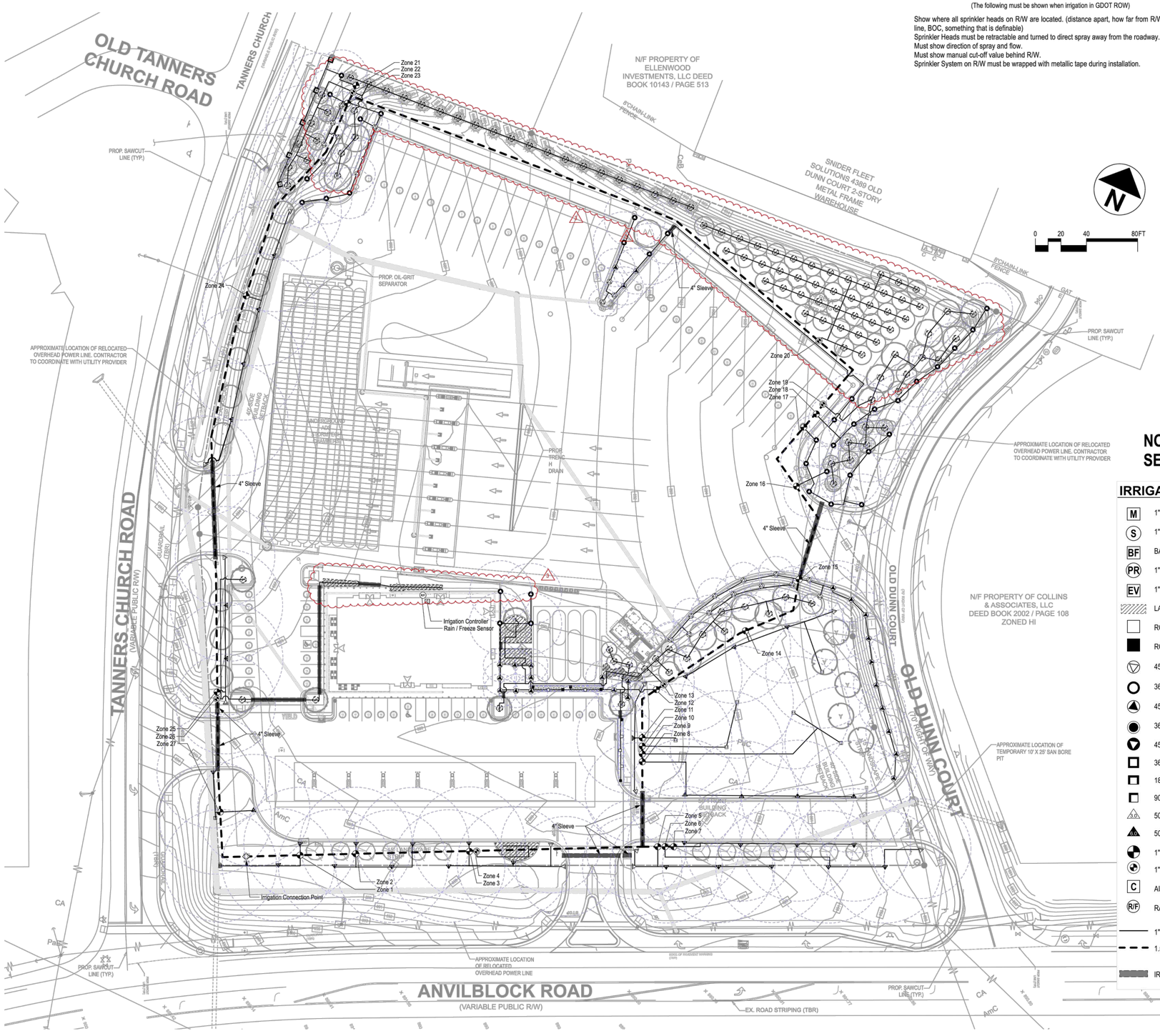
REVISION SCHEDULE

NO.	DATE	DESCRIPTION
3	6.4.21	Site Plan Revision
4	9.8.21	Client Comments
5	10/6/21	Client Comments

MLD PROJECT #	2020118
DRAWN BY	SLM
CHECKED BY	SLM
DATE	6.3.21

Landscape Specification

L-1.3



IRRIGATION SYSTEM IN GDOT

(The following must be shown when irrigation in GDOT ROW)

Show where all sprinkler heads on R/W are located. (distance apart, how far from R/W line, BOC, something that is definable)
Sprinkler Heads must be retractable and turned to direct spray away from the roadway.
Must show direction of spray and flow.
Must show manual cut-off value behind R/W.
Sprinkler System on R/W must be wrapped with metallic tape during installation.

IRRIGATION NOTES

1. Irrigation Contractor to locate and protect all underground utilities prior to digging.
2. All valves to be located in valve box, with cover at grade. Locate box in grass area when possible.
3. Automatic controller to be mounted in utility room or as determined by the Project Manager; see Architectural Plans.
4. Rain/Freeze Sensor to be located along parapet or as determined by the Project Manager; see Architectural Plans. Ensure Sensor is free from any obstructions.
5. 60 psi required per rotor station - 40 psi required per spray station - 40 psi required per drip station. All spray and rotor bodies to have PRS (In-stem pressure regulation system) as indicated in the legend. Flow adjustments can be made at the zone's valve to compensate for this difference in PSI.
6. Pressure regulator required if static water pressure at point of connection for site is greater than 80 psi.
7. 4" - 6" SCH 40 PVC sleeves are to be located as shown on sheet L.2.1. Extend sleeve 18" beyond back of curb or pavement. Sleeves to be located and exposed by the General Contractor prior to start of the irrigation installation. Racetrac will reject all other locations.
8. All shrub beds are to be irrigated using dripline. 4" pop-up height for turf zone rotors and sprays. Rotor nozzle size as indicated on the irrigation plan.
9. All pipes, automatic valves, backflow preventor, manual valve and meter to be located within property lines; shown outside on drawing for clarity only.
10. Irrigation meter and backflow preventer to be provided by the General Contractor.
11. Backflow preventer to be as per local code.
12. Mainline & all Lateral lines are to be located a minimum of 3' off back of curb/sidewalk. Any sprays or rotors located in this area are to be connected using a flexible swing pipe (RainBird SPX-FLEX-100).
13. All mainlines to have a minimum of 18" cover (class 200 PVC pipe).
14. All laterals and sub-main pipe to have a minimum of 12" (class 200 PVC pipe).
15. No rocks, boulders, or other extraneous materials to be used in backfilling trenches.
16. All threaded joints to be coated with Teflon Tape or Liquid Teflon.
17. All lines to be thoroughly flushed before installation of sprinkler heads.
18. Must use products specified on this drawing, unless otherwise approved by the Landscape Architect.
19. Irrigation Contractor shall provide an As-Built drawing to the Landscape Architect.
20. Irrigation Contractor to field verify that installed irrigation system provides 100% coverage upon completion of installation. If system does not provide 100% coverage the Irrigation Contractor shall revise system to provide 100% coverage prior to Certificate of Occupancy.
21. All pipe, valves, drip, spray heads, rotors, controllers, and weather sensors are to be installed as per RainBird specifications. For any questions on RainBird products or installation call Don Mann at 520.904.1146.
22. Water source to building shall be a 1.5" PVC with 1" or 1.5" meter. Mainline to be 1.5".

IRRIGATION ZONES

SMART CONTROLLER

1	16.05	GPM	11	14.11	GPM	21	15.50	GPM
2	16.04	GPM	12	15.93	GPM	22	DRIP	
3	16.17	GPM	13	DRIP		23	18.71	GPM
4	DRIP		14	16.17	GPM	24	18.11	GPM
5	16.17	GPM	15	16.84	GPM	25	14.23	GPM
6	10.09	GPM	16	14.28	GPM	26	DRIP	
7	16.04	GPM	17	15.96	GPM	27	16.05	GPM
8	16.04	GPM	18	16.37	GPM			
9	16.06	GPM	19	DRIP				
10	16.06	GPM	20	DRIP				

NOTE:
SEE SHEET L-2.1 FOR IRRIGATION DETAILS

IRRIGATION LEGEND - RAINBIRD PRODUCTS ONLY

M	1" IRRIGATION METER	PROVIDED BY THE GENERAL CONTRACTOR
S	1" MANUAL SHUTOFF VALVE	1 REQUIRED
BF	BACKFLOW PREVENTER	AS REQUIRED BY CITY
PR	1" PRESSURE REGULATOR	AS REQUIRED
EV	1" ELECTRICAL MASTER VALVE	1 REQUIRED
	LANDSCAPE DRIPLINE	RAINBIRD XFD-09-18
	ROTARY SIDE STRIP NOZZLE	RAINBIRD RD1800-S-P45-RVANLCS or (RCS)
	ROTARY LEFT OR RIGHT END STRIP NOZZLE	RAINBIRD RD1800-S-P45-RVANSST
	45-270 ADJUSTABLE ARC ROTARY NOZZLE - 8'-14' RADIUS	RAINBIRD RD1800-S-P45-R-VAN14
	360 ROTARY NOZZLE - 13'-18' RADIUS	RAINBIRD RD1800-S-P45-R-VAN18-360
	45-270 ADJUSTABLE ARC ROTARY NOZZLE - 13'-18' RADIUS	RAINBIRD RD1800-S-P45-R-VAN18
	360 ROTARY NOZZLE - 17'-24' RADIUS	RAINBIRD RD1800-S-P45-R-VAN24-360
	45-270 ADJUSTABLE ARC ROTARY NOZZLE - 17'-24' RADIUS	RAINBIRD RD1800-S-P45-R-VAN24
	360 MPR SERIES STREAM ROTOR NOZZLE - 25',30',35' RADIUS	RAINBIRD 5000-R-MPR-R25/30/35 (as indicated at the head)
	180 MPR SERIES STREAM ROTOR NOZZLE - 25',30',35' RADIUS	RAINBIRD 5000-R-MPR-H25/30/35 (as indicated at the head)
	90 MPR SERIES STREAM ROTOR NOZZLE - 25',30',35' RADIUS	RAINBIRD 5000-R-MPR-Q25/30/35 (as indicated at the head)
	5000 SERIES ROTOR - QUARTER SPRAY	RAINBIRD 5000-PC-PRS-NP w/3.0 NOZZLE
	5000 SERIES ROTOR - HALF SPRAY	RAINBIRD 5000-PC-PRS-NP w/6.0 NOZZLE
	1" ELECTRIC VALVE	RAINBIRD 100-PGA
	1" DRIP CONTROL ZONE VALVE	RAINBIRD XCZ-100-PRB-COM
C	AUTOMATIC CONTROLLER	RAINBIRD ESP-ME3 (120V required); expansion modules as needed
R/F	RAIN/FREEZE SENSOR	RAINBIRD WR2-RFC
	1" LATERAL LINE	CLASS 200 PVC IRRIGATION PIPE AND FITTINGS - 1" LATERAL LINES
	1.5" MAINLINE	CLASS 200 PVC IRRIGATION PIPE AND FITTINGS - 1.5" MAINLINE
	IRRIGATION SLEEVE - 4" SCH 40 PVC	4" SCH 40 PVC SLEEVE UNDER PAVEMENT installation of sleeves by contractor in location as shown on plan.

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Ellenwood, GA
Clayton County

STATE OF GEORGIA
STEVE L. MANLEY
CERTIFICATE NO. 676
REGISTERED LANDSCAPE ARCHITECT

REVISION SCHEDULE

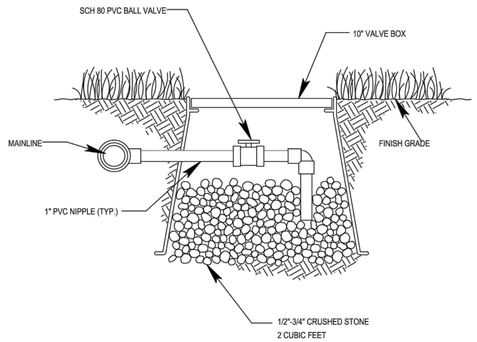
NO.	DATE	DESCRIPTION
3	6.4.21	Site Plan Revision

MLD PROJECT #	2020118
DRAWN BY	AN
CHECKED BY	SLM
DATE	3/26/21

Irrigation Plan

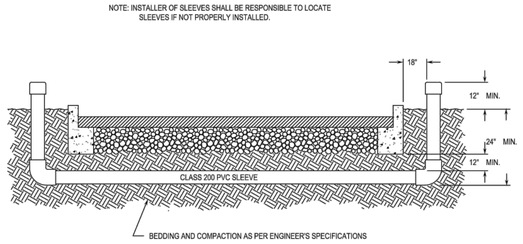
PERMIT

L-2.1



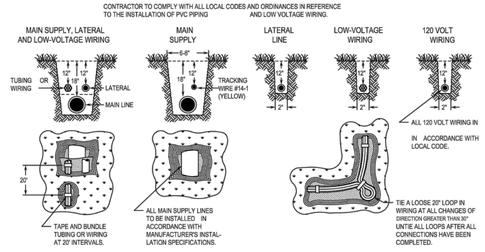
1 L2.2 MANUAL DRAIN VALVE

NTS



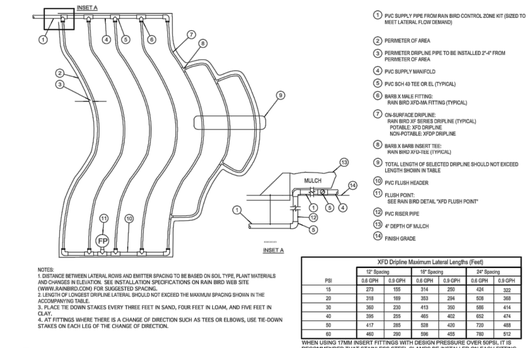
2 L2.2 SLEEVING

NTS



3 L2.2 TRENCHING

NTS



1. PVC SUPPLY PIPE FROM RAIN BIRD CONTROL ZONE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
2. PERIMETER OF AREA
3. PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"-4" FROM PERIMETER OF AREA
4. PVC SUPPLY MANIFOLD
5. PVC SCH 40 TEE OR EL (TYPICAL)
6. BARB X MALE FITTING: RAIN BIRD XFD-MA FITTING (TYPICAL)
7. ON-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE (TYPICAL) POTABLE: XFD DRIPLINE NON-POTABLE: XFDP DRIPLINE
8. BARB X BARB INSERT TEE: RAIN BIRD XFD-TEE (TYPICAL)
9. TOTAL LENGTH OF SELECTED DRIPLINE SHOULD NOT EXCEED LENGTH SHOWN IN TABLE
10. PVC FLUSH HEADER
11. FLUSH POINT: SEE RAIN BIRD DETAIL "XFD FLUSH POINT"
12. PVC RISER PIPE
13. 4" DEPTH OF MULCH
14. FINISH GRADE

NOTES:
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE INSTALLATION SPECIFICATIONS ON RAIN BIRD WEB SITE (WWW.RAINBIRD.COM) FOR SUGGESTED SPACING.
2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING SHOWN IN THE ACCOMPANYING TABLE.
3. STAKE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
4. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.

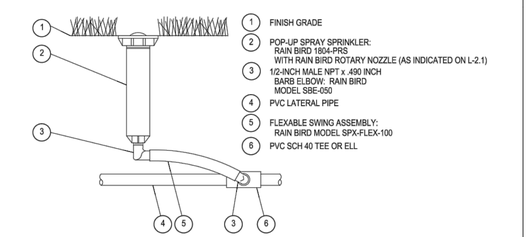
XFD Dripline Maximum Lateral Lengths (Feet)

	12" Spacing		18" Spacing		24" Spacing	
PSI	0.6 GPH	0.9 GPH	0.6 GPH	0.9 GPH	0.6 GPH	0.9 GPH
15	273	185	314	200	424	322
20	318	189	353	284	509	368
30	360	220	413	350	585	414
40	396	255	465	402	652	474
50	417	285	508	435	710	466
60	466	290	596	465	780	512

WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

4 L2.2 MANUAL DRAIN VALVE

NTS

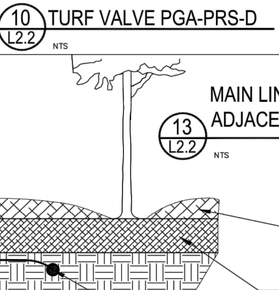


1. EASY FIT COMPRESSION TEE: RAIN BIRD MDCFTEE
2. ON-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE POTABLE: XFD DRIPLINE NON-POTABLE: XFDP DRIPLINE
3. INLINE DRIP EMITTER OUTLET
4. TIE DOWN STAKE: RAIN BIRD TDS-050 WITH BEND (TYPICAL)
5. MULCH
6. FINISH GRADE

NOTES:
1. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
2. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.

5 L2.2 LANDSCAPE DRIPLINE ON GRADE

NTS



1. PVC DRIP MANIFOLD PIPE
2. PVC SCH 40 TEE OR EL
3. 1/2" POLYETHYLENE TUBING: RAIN BIRD XF SERIES BLANK TUBING
4. BARB CROSS INSERT FITTING: RAIN BIRD XFD-CROSS
5. BARB TEE INSERT FITTING: RAIN BIRD XFD-TEE
6. SHOVEL CUT BED EDGE
7. ON-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE POTABLE: XFD DRIPLINE NON-POTABLE: XFDP DRIPLINE PLACE AS SHOWN (LENGTH AS REQUIRED)
8. TREE TRUNK
9. TIE DOWN STAKE: RAIN BIRD TDS-050 WITH BEND (QUANTITY AS REQUIRED. SEE NOTES 2-3 BELOW)

NOTES: (THIS DETAIL IS FOR TREES LOCATED OUTSIDE OF PLANTING AREAS ONLY)
1. DISTANCE BETWEEN LATERAL RINGS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, AND TREE CANOPY. SEE INSTALLATION SPECIFICATIONS ON RAIN BIRD WEB SITE (WWW.RAINBIRD.COM) FOR SUGGESTED SPACING.
2. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
3. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.

6 L2.2 DRIP LAYOUT AROUND TREES IN TURF AREA

NTS

1. MICRO-SPRAY POP-UP: RAIN BIRD XERI-POP XP-600X WITH 4-VAN NOZZLE
2. ON-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE POTABLE: XFD SERIES NON-POTABLE: XFDP SERIES
3. ½" BARB TRANSFER FITTINGS: RAIN BIRD XBFICONN
4. ½" DISTRIBUTION TUBING: RAIN BIRD XQ TUBING (LENGTH AS REQUIRED)
5. MULCH
6. FINISH GRADE

NOTE:
1. USE XERIMAN TOOL XM-TOOL TO INSERT BARB TRANSFER FITTING DIRECTLY INTO DRIPLINE TUBING.
2. VAN NOZZLE MAY BE SET TO CLOSED, OR IF IT IS DESIRED TO SEE SPRAY FROM THE NOZZLE, SET THE ARC TO ½ PATTERN. THE FLOW FROM THE NOZZLE, 0.3 GPM, SHOULD BE ACCOUNTED FOR IN THE SYSTEM DESIGN.

7 L2.2 DRIPLINE OPERATION INDICATOR

NTS

1. FINISH GRADE
2. FINISH GRADE
3. ROTOR POP-UP SPRINKLER: RAIN BIRD 5004-MPR-25/30/35-Q/T/HT/TQ/F
4. FLEXABLE SWING ASSEMBLY: RAIN BIRD SPX-FLEX-100
5. PVC SCH 40 TEE OR ELL
6. LATERAL PIPE

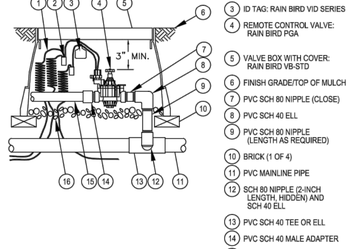
8 L2.2 ROTOR POP-UP SPRINKLER:5004-MPR NOZZLE

NTS

1. FINISH GRADE
2. POP-UP SPRAY SPRINKLER: RAIN BIRD 1804-PRS WITH RAIN BIRD ROTARY NOZZLE (AS INDICATED ON L-2.1)
3. 1/2-INCH MALE NPT x .490 INCH BARB ELBOW: RAIN BIRD MODEL SBE-050
4. PVC LATERAL PIPE
5. FLEXABLE SWING ASSEMBLY: RAIN BIRD MODEL SPX-FLEX-100
6. PVC SCH 40 TEE OR ELL

9 L2.2 ROTORY NOZZLE: 1804 POP-UP SPRAY SPRINKLER

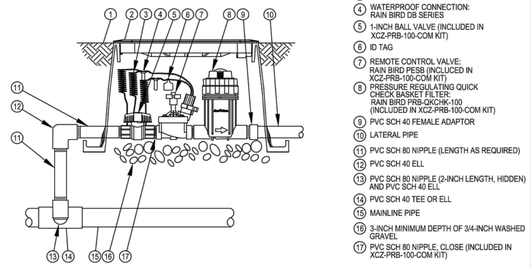
NTS



1. 30-INCH LINEAR LENGTH OF WIRE, COILED
2. WATERPROOF CONNECTION: RAIN BIRD SPLICE-1 (1 OF 2)
3. ID TAG: RAIN BIRD VID SERIES
4. REMOTE CONTROL VALVE: RAIN BIRD PGA
5. VALVE BOX WITH COVER: RAIN BIRD VB-STD
6. FINISH GRADE/TOP OF MULCH
7. PVC SCH 80 NIPPLE (CLOSE)
8. PVC SCH 40 ELL
9. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
10. BRICK (1 OF 4)
11. PVC MAINLINE PIPE
12. SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
13. PVC SCH 40 TEE OR ELL
14. PVC SCH 40 MALE ADAPTER
15. PVC LATERAL PIPE
16. 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

10 L2.2 TURF VALVE PGA-PRS-D

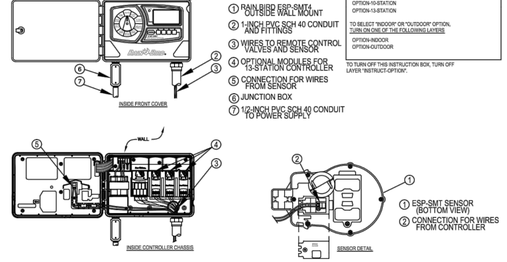
NTS



1. FINISH GRADE/TOP OF MULCH
2. VALVE BOX WITH COVER: RAIN BIRD VB-STD
3. 30-INCH LINEAR LENGTH OF WIRE, COILED
4. WATERPROOF CONNECTION: RAIN BIRD DB SERIES
5. 1-INCH BALL VALVE (INCLUDED IN XCZ-PRB-100-COM KIT)
6. ID TAG
7. REMOTE CONTROL VALVE: RAIN BIRD PESB (INCLUCED IN XCZ-PRB-100-COM KIT)
8. PRESSURE REGULATING QUICK CHECK BASKET FILTER: RAIN BIRD PRB-QKCHK-100 (INCLUDED IN XCZ-PRB-100-COM KIT)
9. PVC SCH 40 FEMALE ADAPTOR
10. LATERAL PIPE
11. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
12. PVC SCH 40 ELL
13. PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL
14. PVC SCH 40 TEE OR ELL
15. MAINLINE PIPE
16. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
17. PVC SCH 80 NIPPLE, CLOSE (INCLUDED IN XCZ-PRB-100-COM KIT)

11 L2.2 DRIP VALVE:XCZ-PRB-100-B-COM

NTS



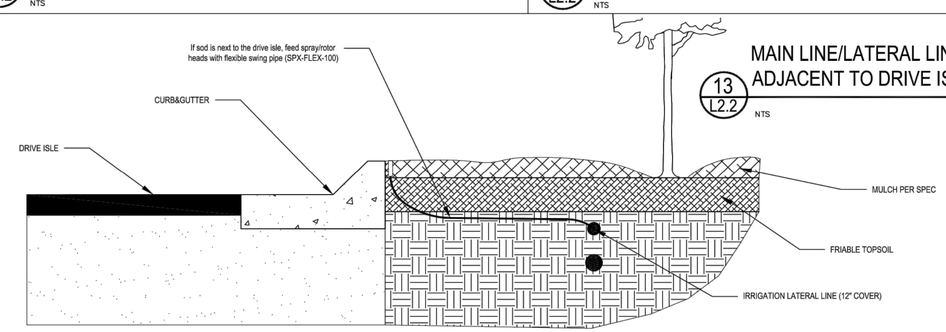
1. RAIN BIRD ESP-SMT4 OUTSIDE WALL MOUNT
2. 1-INCH PVC SCH 40 CONDUIT AND FITTINGS
3. WIRES TO REMOTE CONTROL VALVES AND SENSOR
4. OPTIONAL MODULES FOR 12-STATION CONTROLLER
5. CONNECTION FOR WIRES FROM SENSOR
6. JUNCTION BOX
7. 1-INCH PVC SCH 40 CONDUIT TO POWER SUPPLY

1. ESP-SMT SENSOR (BOTTOM VIEW)
2. CONNECTION FOR WIRES FROM CONTROLLER

NOTE:
WIRE LENGTH FROM CONTROLLER TO SENSOR NOT TO EXCEED 200 FEET.

12 L2.2 SMART CONTROLLER:ESP-SMT

NTS



13 L2.2 MAIN LINE/LATERAL LINE LOCATION ADJACENT TO DRIVE ISLE

NTS

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Clayton County

STATE OF GEORGIA
STEVE L. MANLEY
CERTIFICATE NO. 638
REGISTERED LANDSCAPE ARCHITECT

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
3	6.4.21	Site Plan Revision

MLD PROJECT #	2020118
DRAWN BY	AN
CHECKED BY	SLM
DATE	3/26/21

Irrigation Details

PERMIT

L-2.2

IRRIGATION SPECIFICATIONS

PART 1 - GENERAL

DESCRIPTION

Provide a complete design and installation for an underground irrigation system as specified herein. The work includes:

1. The design of an underground irrigation system using irrigation industry best practices
2. Automatic irrigation system including piping, fittings, sprinkler heads, and accessories.
3. Pump (if necessary), valves, and fittings.
4. Irrigation Meter and reduced pressure backflow preventer. (Provided by the General Contractor)
5. Controller, control wire.
6. Testing.
7. Excavation and backfilling irrigation system work.
8. Associated interior and exterior plumbing, and accessories to complete the system.

Pipe sleeves are generally indicated to be supplied and installed by the General Contractor. The Irrigation Contractor shall coordinate with the General Contractor to ensure that sleeving is available in the preferred locations and that the irrigation site drawing reflects the actual installed locations of the sleeves. Sleeve locations are also shown on the Utility Plan by the Civil Engineer.

QUALITY ASSURANCE

Installer's qualifications: Minimum of 3 years experience installing irrigation systems of comparable size. All plumbing within the building shall be installed by a licensed plumber.

Materials, equipment, and methods of installation shall comply with the following codes and standards.

1. National Fire Protection Association, (NFPA): National Electrical Code.
2. American Society for Testing and Materials, (ASTM).
3. National Sanitation Foundation, (NSF).
4. The Irrigation Association, (IA).

The Irrigation Contractor shall coordinate with the sodding and landscape contractors to insure 100% irrigation coverage of all sod and plant material. The Contractor shall verify water pressure at the site. If pressure is below 40 psi, the Landscape Architect shall be notified immediately for a redesign. The final zone design flow and operating pressure shall guarantee 100% coverage for all sod and landscape areas.

SUBMITTALS

Upon irrigation system acceptance by Landscape Architect or RaceTrac Project Manager, submit manufacture's product manuals and any site specific operating and/or maintnenance instructions.

1. Provide one (1) copy of irrigation system as-built directly to the Landscape Architect and on site Project Manager. Legibly mark drawings to record actual construction, valve locations, zone/station numbering, main line locations, etc.
2. Provide all manufacturers manuals.

DELIVERY, STORAGE AND HANDLING

Deliver irrigation system components in manufacturer's original undamaged and unopened containers with labels intact and legible.

Protect existing trees, plants, lawns and other features designated to remain as part of the final landscape work.

Promptly repair damage to adjacent facilities caused by irrigation system work operations. Cost of repairs at Contractor's expense. Promptly notify the Landscape Architect of unexpected sub-surface conditions. Minor adjustments in system layout will be permitted to clear existing fixed obstructions. Final system layout shall be acceptable to the Landcape Architect.

CODES, INSPECTIONS AND PERMITS

The entire installation shall fully comply with all local and state laws and ordinances, and with all the established codes applicable thereto. The Contractor shall take out all required permits, arrange for all necessary inspections and shall pay any fees and expenses in conjunction with the same as a part of the work under this Section. If required, the Owner will provide the City and utility companies with a "Hold Harmless" agreement for sprinklers on public lands and easements.

GUARANTEE

For a period of one (1) year from date of final acceptance of work performed under this Section, the Contractor shall promptly furnish and install any and all parts and equipment which prove defective in material, workmanship or installation at no additional cost to the Owner.

PART 2 - PRODUCTS

ACCEPTABLE MANUFACTURERS

Manufacturers:
ONLY - Rain Bird, Contractor Division, Glendora, CA

MATERIALS

General:
1. Provide only new materials, without flaws or defects and of the highest quality of their specified class and kind.
2. Comply with pipe sizes indicated. No substitution of smaller pipes will be permitted. Remove damaged and defective pipe.
3. Provide pipe continuously and permanently marked with manufacturer's name or trademark, size schedule and type of pipe, working pressure at 73 degrees F. and National Sanitation Foundation (NSF) approval.
4. All materials subject to acceptance of the Landscape Architect and Owner.

Plastic pipe, fittings, and connections:
1. Polyvinyl chloride pipe: ASTM D2241, rigid, unplasticized PVC, extruded from virgin parent material. Provide pipe homogeneous throughout and free from visible cracks, holes, foreign materials, blisters, wrinkles and dents.
   a. SDR 21, Class 200.
2. Polyethylene pipe: ASTM D2239 flexible polyethylene pipe rated at 100 PSI minimum working pressure.
3. PVC pipe fittings: ASTM D2241 schedule 40 PVC molded fittings suitable for solvent weld, slip joint ring tight seal, or screwed connections. Fittings made of other materials are not permitted.
   a. Size slip fitting socket taper to permit a dry unsoftened pipe end to be inserted no more than halfway into the socket. Saddle and cross fittings are not permitted.
   b. Schedule 80 PVC pipe may be threaded.
   c. Use male adapters for plastic to metal connections. Hand tighten male adapters plus one turn with a strap wrench.
4. Insert fittings: ASTM D2466 insert type fittings.
5. Saddle tees for lateral lines:
   a. Kwik-seal saddle tee as manufactured by Dawn Industries, Inc. 4410 Washington Street, Denver, CO 80216, or approved equal.
   b. Brass Saddle with stainless steel screws.
6. Sprinkler Riser:
   a. Cut-off polyethylene riser mounted on saddle tees.
   b. Riser height as required.
7. Swing joints: See detail.

Interior copper pipe, fittings and connections:

1. Interior water piping, fittings and connectors: ASTM B88 Type "L" hard tempered copper tubing. Fittings shall be 150 pound working water pressure standard, solder end type, constructed of wrought copper, bronze or brass.
2. Joints made with tin-lead solder, approximately 95-5 composition. Thoroughly polish joints and use proper flux to provide sound joints.

Sprinkler heads, pumps, valves and associated equipment:

1. The following items are as specified on the Drawings unless noted otherwise.
   a. Spray type sprinkler heads, rotary type sprinkler heads
   b. Pressure compensating drip line
   c. Manual isolation valves - gate valve for lines 2" and under, mechanical lines for valves greater than 2"
   d. Electric remote control valves (ensure water tight connections)
   e. Quick couples valves - each with key having 3/4" male top pipe thread for hose connection
   f. Backflow preventer - comply with codes of local or county agency
   g. Pump if necessary
   h. Irrigation meter - comply with codes of local or county agency. (Provided by General Contractor)
   i. Mainline and associated lateral lines with sizes

Controls:

1. The following items are as specified on the Drawings unless noted otherwise.
   a. Controller as specified on the drawings.
   b. Pump starter (if necessary)

Electrical control wire:

1. Electrical control and ground wire: Type UF direct burial 600 volt AWG control cable #12 neutral and #14 control "hot" wire. No aluminum wire allowed.
2. Wire color code: Provide control or "hot" wires either black or red in color. Provide common or "ground wires" white in color.

ACCESSORIES

Drainage fill: 1/2" to 3/4" washed pea gravel.

Fill: Clean soil free of stones larger than 2" diameter foreign matter, organic material and debris.

1. Provide imported fill material as required to complete the work. Obtain rights and pay all costs for imported materials.
2. Suitable excavated materials removed to accommodate the irrigation system work may be used as fill material subject to the Landscape Architect's review and acceptance.

Clamps: Stainless steel, worm gear hose clamps with stainless steel screws or ear type clamps.

Low voltage wire connectors: Socket seal type wire connectors and 3M DBY Direct Bury Splice Kit.

Valve access boxes: Tapered enclosure of rigid plastic material comprised of fibrous components chemically inert and unaffected by moisture corrosion and temperature changes. Provide lid of same material, green in color.

1. 12" deep x 18" long x 13" wide base dimensions.
2. 9" deep x 10" diameter base dimension.

PART 3 - EXECUTION

INSPECTION

Examine final grades and installation conditions. Do not start irrigation system work until unsatisfactory conditions are corrected.

PREPARATION

Layout and stake the location of each pipe run and all sprinkler heads and sprinkler valves.

Coordinate with the General Contractor to expose the irrigation sleeves. Irrigation sleeves installed by the General Contractor.

INSTALLATION

General: Prior to any work, the Contractor will test the pressure and flow of the existing water line and make necessary adjustments to the system design.

Excavating and backfilling:

1. Excavation shall include all materials encountered, except materials that cannot be excavated by normal mechanical means.
   a. Rock excavation: Submit a unit cost per foot of trench for rock excavation. Include in price additional backfill materials required to replace excavated rock.
2. Excavate trenches of sufficient depth and width to permit proper handling and installation of pipe and fittings.
3. If the pulling method is used, the pipe "plow" shall be a vibratory type. Starting and finishing holes for pipe pulling shall not exceed a 1'-0" by 3'-0" opening.
4. Excavate to depths required to provide 2" depth of earth fill or sand bedding for piping when rock or other unsuitable bearing material is encountered.
5. Fill to match adjacent grade elevations with approved earth fill material. Place and compact fill in layers not greater than 8" depth.
   a. Provide approved earth fill or sand to a point 4" above the top of pipe.
   b. Fill to within 6" of final grade with approved excavated or borrow fill materials free of lumps or rocks larger than 3" in any dimension.
   c. Provide clean topsoil fill free of rocks and debris for top 6" of fill.
6. Except as indicated, install irrigation mains with a minimum cover of 18" based on finished grades. Install irrigation laterals with a minimum cover of 12" based on finished grades. In roadways or parking areas, minimum cover of 24" based on top of pavement.
7. Excavate trenches and install piping and fill during the same working day. Do not leave open trenches or partially filled trenches open overnight.

Plastic pipe:

1. Install plastic pipe in accordance with manufacturer's installation instructions. Provide for thermal expansion and contraction.
2. Saw cut plastic pipe. Use a square-in-sawing vice, to ensure a square cut. Remove burrs and shavings at cut ends prior to installation.
3. Make plastic to plastic joints with solvent weld joints to slip seal joints. Use only solvent recommended by the pipe manufacturer. Install plastic pipe fittings in accordance with pipe manufacturer's instructions. Contractor shall make arrangements with pipe manufacturer for all necessary field assistance.
4. Make plastic to metal joints with metal male adapters.
5. Make solvent weld joints in accordance with manufacturer's recommendations.
6. Allow joints to set at least 24 hours before pressure is applied to the system.
7. Uncoil poly-pipe and insert full depth. Secure poly-pipe to insert fittings with stainless steel clamps. Double clamp pipe 1" diameter or greater.
8. Maintain pipe interiors free of dirt and debris. Close open ends of pipe by acceptable methods when pipe installation is not in progress.

Sprinklers, fittings, valves and accessories:

1. Install fittings, valves, sprinkler heads, risers, and accessories in accordance with manufacturer's instructions, except as otherwise indicated.
   a. Provide concrete thrust blocks where required at fittings and valves.
2. Set sprinkler heads perpendicular to finished grades, except as otherwise indicated.
3. Install pop-up spray heads with polyethylene "cut-off" nipples.
4. Locate sprinkler heads to assure proper coverage of indicated areas. Do not exceed sprinkler head spacing distances indicated.
5. Install isolation ball valves in a 10" valve box according to the plans.
6. Install quick-coupling valves on an adjustable 360 degree swing joint riser assembly. Install quick-coupling valves in a 10" valve box according to the plans.
7. Install backflow prevention valve, pump, suction line, booster pump, fittings, and accessories as shown or required to complete the system.
8. Install controller.
   a. Located in back of store.
   b. Ground Controller in accordance with manufacturer's recommendations.
   c. Connect to 120v outlet on separate circuit.
9. Install in-ground control valves in a valve access box as indicated.
10. Install valve access boxes on a suitable base of gravel (minimum 4") to provide a level foundation at proper grade and to provide drainage of the access box.
11. Seal threaded connections on pressure side of control valves per manufacturer's recommendations.
12. Install self cleaning pressure compensating dripper line per manufacturer's recommendations (where specified). Provide all fittings, accessories, valves and filters for a finished, complete functioning system.
13. Install drip line where specified on finished grade in plant beds using Techline staples to hold in place, and cover with a 3" depth of specified mulch. Coordinate installation with shrub and groundcover placement.

Control wiring:

1. Install electric control cable in the piping trenches wherever possible. Place wire in trench adjacent to pipe. Install wire with slack to allow for thermal expansion and contraction. Expansion joints in wire may be provided at 200-foot intervals by making 5-6 turns of the wire around a piece of 1/2" pipe instead of slack. Where necessary to run wire in a separate trench, provide a minimum cover of 12".
2. Provide sufficient slack at site connections at remote control valves in control boxes, and at all wire splices to allow raising the valve bonnet or splice to the surface without disconnecting the wires when repair is required.
3. Connect each remote control valve to one station of a controller except as otherwise indicated.
4. Connect remote control valves to a common ground wire system independent of all other controllers.
5. Make wire connections to remote control electric valves and splices of wire in the field, using wire connectors and sealing cement in accordance with manufacturer's recommendations.
6. Provide tight joints to prevent leakage of water and corrosion build-up on the joint.
7. A separate common neutral wire is required from controller along entire mainline.
8. Provide one spare control wire from controller along entire mainline.

Interior plumbing:

1. Install piping to provide complete drainage of the system, toward the source wherever possible. Provide drain valves at all drainage points on pipes. Cut pipe accurately to measurements established at the building and installed without springing or forcing. After cutting and reaming, and before assembling, remove interior scale, dust and foreign matter. Installed pipe shall follow building lines, clearing all doors and other openings. No diagonal piping will be accepted. Install piping to allow installation of 1" thickness pipe installation covering. Provide for thermal expansion and contraction of pipe.
2. Insulate piping with 1" thickness of fibrous glass insulation, 35 degree service, with white Kraft paper jacket and .001" aluminum foil vapor barrier.
3. Stub-out from mechanical room floor to turf or planting area at 18" below finish grade and install a male pipe thread connection at the turf end.

Sleeves: *(TO BE INSTALLED BY GENERAL CONTRACTOR)*

1. Utilize existing sleeves for installation of the irrigation system.
2. Provide new sleeves for all locations where existing sleeves are not indicated. Install new sleeves prior to paving installation.
3. Install pipe sleeves under existing concrete or asphalt surface by jacking, boring or hydraulic driving of the sleeve. Obtain Owner's permission before cutting existing concrete and asphalt surfaces. Where piping is shown under paved areas which are adjacent to turf areas, install the piping in the turf areas.
4. Install permanent benchmark in the top of curbs and other hardscapes for reference of sleeve locations.

Flushing, testing and adjustment.

1. After sprinkler piping and risers are installed and before sprinkler heads are installed, open control valves and flush out the system with full head of water.
2. Perform system testing upon completion of each section. Make necessary repairs and re-test repaired sections as required.
3. Adjust sprinklers after installation for proper and adequate distribution of the water over the coverage pattern. Adjust for the proper arc of coverage.
4. Tighten nozzles on spray type sprinklers after installation. Adjust sprinkler adjusting screw on lateral line or circuit as required for proper radius. Interchange nozzles patterns as directed by the Landscape Architect, to give best arc of coverage.
5. Adjust all electric remote control valve pressure regulators and flow control stems for system balance and optimum performance.
6. Test and demonstrate the controller by operating appropriate day, hour and station selection features as required to automatically start and shut down irrigation cycles to accommodate plant requirements and weather conditions.

DISPOSAL OF WASTE MATERIAL

Stockpile, haul from site, and legally dispose of waste materials, including unsuitable excavated materials, rock, trash, and debris. Maintain disposal route clear, clean, and free of debris.

ACCEPTANCE

Test and demonstrate to the Landscape Architect and Owner the satisfactory operation of the system free of leaks. Instruct the Owner's designated personnel in the operation of the system, including adjustment of sprinklers, controller, valves and pump controls. Upon acceptance by Landscape Architect, the Owner will assume operation of the system.

CLEANING

Perform cleaning during installation of the work and upon completion of the work. Remove from site all excess materials, soil, debris, and equipment. Repair all damage resulting from irrigation system installation.

SPECIAL INSTRUCTIONS

The Contractor shall coordinate and cooperate with the Landscape Architect, General Contractor, Mechanical/Electrical Contractors, and all subcontractors, during the installation of this system. Installation of sleeves to be coordinated between the Irrigation Contractor and the General Contractor.

During the bidding period the Irrigation Contractor shall inform the RaceTrac Construction Manager of any system items or elements that are required for operation of the system specified herein, but installed or finished by others.

It is the intent and mandatory requirement that the irrigation system be installed and fully operational before planting operations begin. (Except for drip tubing which shall be installed after planting but prior to mulch installation.)

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REVISION SCHEDULE

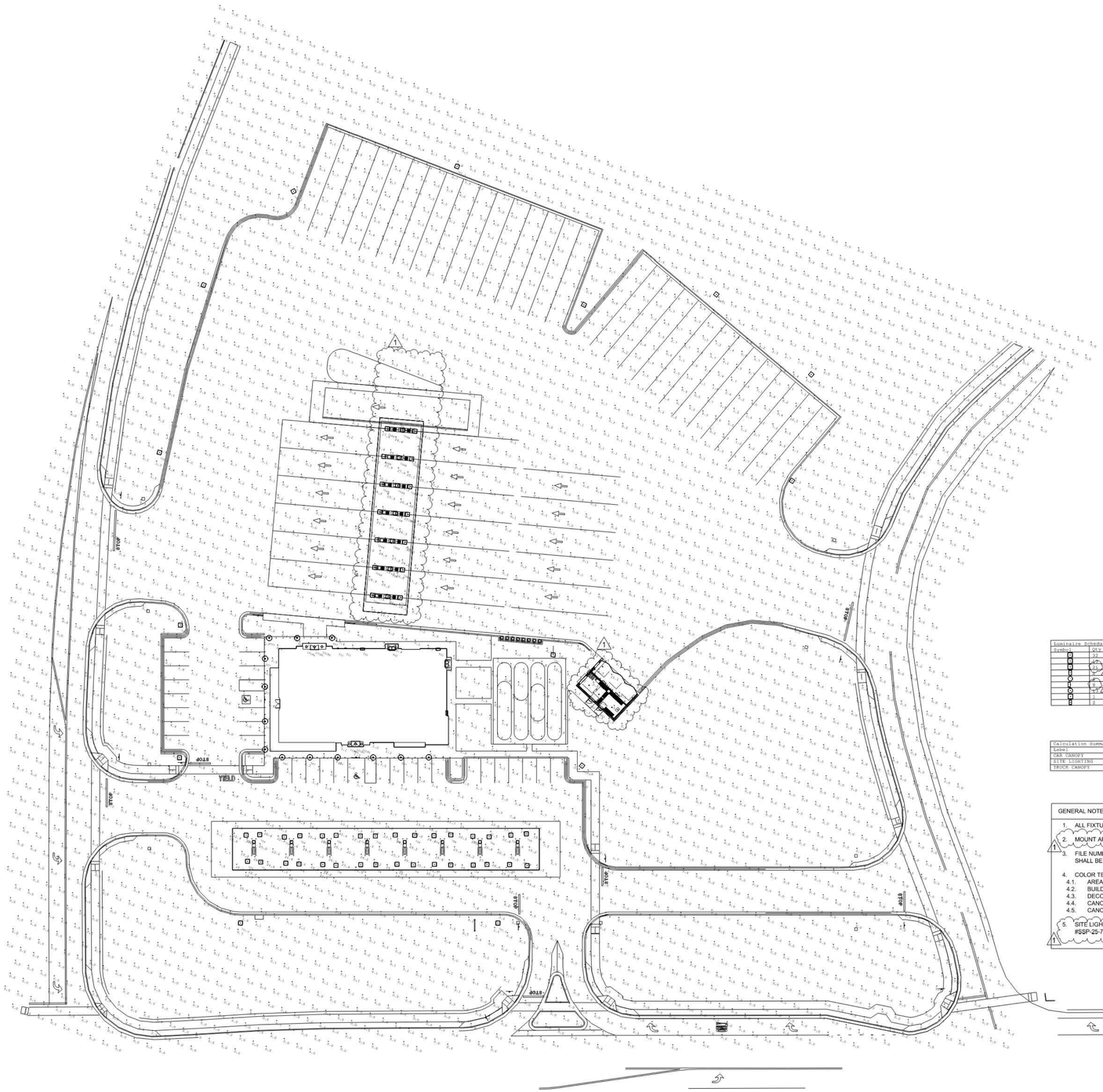
NO.	DATE	DESCRIPTION
3	6.4.21	Site Plan Revision

MLD PROJECT #	2020118
DRAWN BY	AN
CHECKED BY	SLM
DATE	3/26/21

Irrigation Standards

PERMIT

L-2.3



Luminaire Schedule						
Symbol	Qty	Label	LLF	Description	Tag	Lum. Watts
	32	704 - SCV-LED-10L-SC-50	0.800	SCV-LED-10L-SC-50	704	48.1
	1	701 RETROFIT - MRM-LED-30L-SIL-50	1.000	MRM-LED-30L-SIL-5-50-70CRI-TL	701,1	247
	11	704B - SCV-LED-10L-SC-50_1	0.800	SCV-LED-10L-SC-50	704B	48.1
	1	502 - 1ST XWM-FT-18D-04-50	1.000	XWM-FT-18D-04-50	502	35
	1	101BL - PD63SDO10B- PDM6B840-	1.000	PD63SDO10B- PDM6B840-61VBB	101BL	27.5
	1	501 - 18I XWM-FT-18D-04-50	1.000	XWM-FT-18D-04-50	501	53.9
	1	507 - SP2-ANS-12LED-3K-700-FCO	1.000	SP2-ANS-12LED3K-700-FCO-PR-C	507	27.2
	1	701 - MRM-LED-30L-SIL-5-50-70	1.000	MRM-LED-30L-SIL-5-50-70CRI	701	247
	2	511 - 303-S1	1.000	511 - 303-S1 LATERAL THROW DIFFUSED	511	8.83

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
CAR CANOPY	Illuminance	Fc	23.34	27.8	12.6	1.82	2.17
SITE LIGHTING	Illuminance	Fc	1.39	29.2	0.0	N.A.	N.A.
TRUCK CANOPY	Illuminance	Fc	16.94	28.6	9.7	24.20	41.14

GENERAL NOTES

1. ALL FIXTURES UTILIZED IN THIS SITE PHOTOMETRIC PLAN ARE FULL CUTOFF.
2. MOUNT AREA LUMINAIRES, TYPE "701 AND "701.1" AT 28'-0" (INCLUDING POLE BASE)
3. FILE NUMBERS PROVIDED FOR PHOTOMETRY REFERENCE ONLY. CATALOG NUMBERS SHALL BE UTILIZED FOR ORDERING FIXTURES.
4. COLOR TEMPERATURE OF FIXTURES SHALL BE PROVIDED AS FOLLOWS
   - 4.1. AREA LIGHTING - 5700K
   - 4.2. BUILDING MOUNTED - 5700K
   - 4.3. DECORATIVE POLE - 5000K
   - 4.4. CANOPY - 5700K
   - 4.5. CANOPY DOWNLIGHTS - 4000K
5. SITE LIGHTING POLE USED FOR 28'-0" TALL FIXTURES SHALL BE NLS #SSP-25-7G-SGL-BRZ ON 3' CONCRETE BASE

1 SITE PHOTOMETRY PLAN
1" = 40'-0"

RaceTrac.
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DESIGN PROFESSIONALS

PROJECT MANAGER: AH
CHECKED BY: BC
DRAWN BY: CP

ISSUE/REVISION RECORD

DATE	DESCRIPTION
12/03/20	PERMIT SET

RaceTrac.
RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY SOUTHEAST
SUITE 900
ATLANTA, GEORGIA 30339
(770) 431-7600

PROJECT NAME

ANVIL BLOCK, GA
ELLENWOOD
GA, 30294
4443 OLD DUNN COURT

RACETRAC STORE NUMBER
#1478

PROTOTYPE SERIES
2020 LH MO 0216

PLAN MODIFICATION NOTICE

SPB NO. **DATE**

STANDARD PLAN BULLETINS (SPB) MODIFY THE PROTOTYPE SERIES SET NOTED ABOVE. THE LISTED SPB REPRESENTS THE LATEST MODIFICATION INCORPORATED TO THIS PROTOTYPE SERIES SET AT ORIGINAL RELEASE. THE ISSUE/ REVISION RECORD COLUMN ABOVE LISTS ANY REVISIONS OR SPB INCORPORATED IN THIS SET AFTER THE ORIGINAL RELEASE. CONTACT RACETRAC ENGINEERING AND CONSTRUCTION FOR ANY SUBSEQUENT BULLETINS NOT INCORPORATED HEREIN.

PROFESSIONAL SEAL

GEORGIA REGISTERED No. PE043779 PROFESSIONAL ENGINEER DEAN WAY CHANDLER

07/12/2021

PROJECT NUMBER
63200243

SHEET TITLE
SITE PHOTOMETRY PLAN

SHEET NUMBER
SP-1

EDGE-LIT LED OVERHEAD STREET NAME

Tanners Church Rd
D3-1 #1

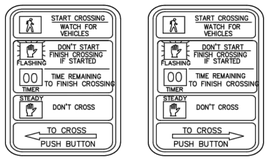
Anvilblock Rd
D3-1 #2

OVERHEAD SIGNS

LEFT TURN
YIELD
ON FLASHING
YELLOW
ARROW

R10-5A
30"x30"

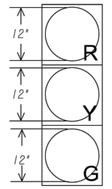
PROPOSED PEDESTRIAN SIGNS



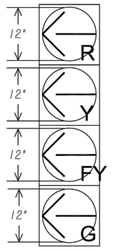
R10-3E(L)
9"x15"

R10-3E(R)
9"x15"

LED SIGNAL HEADS WITH
2" RETRO-REFLECTIVE BORDER ON BACKPLATE

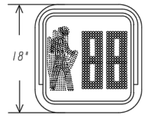


2, 4, 6



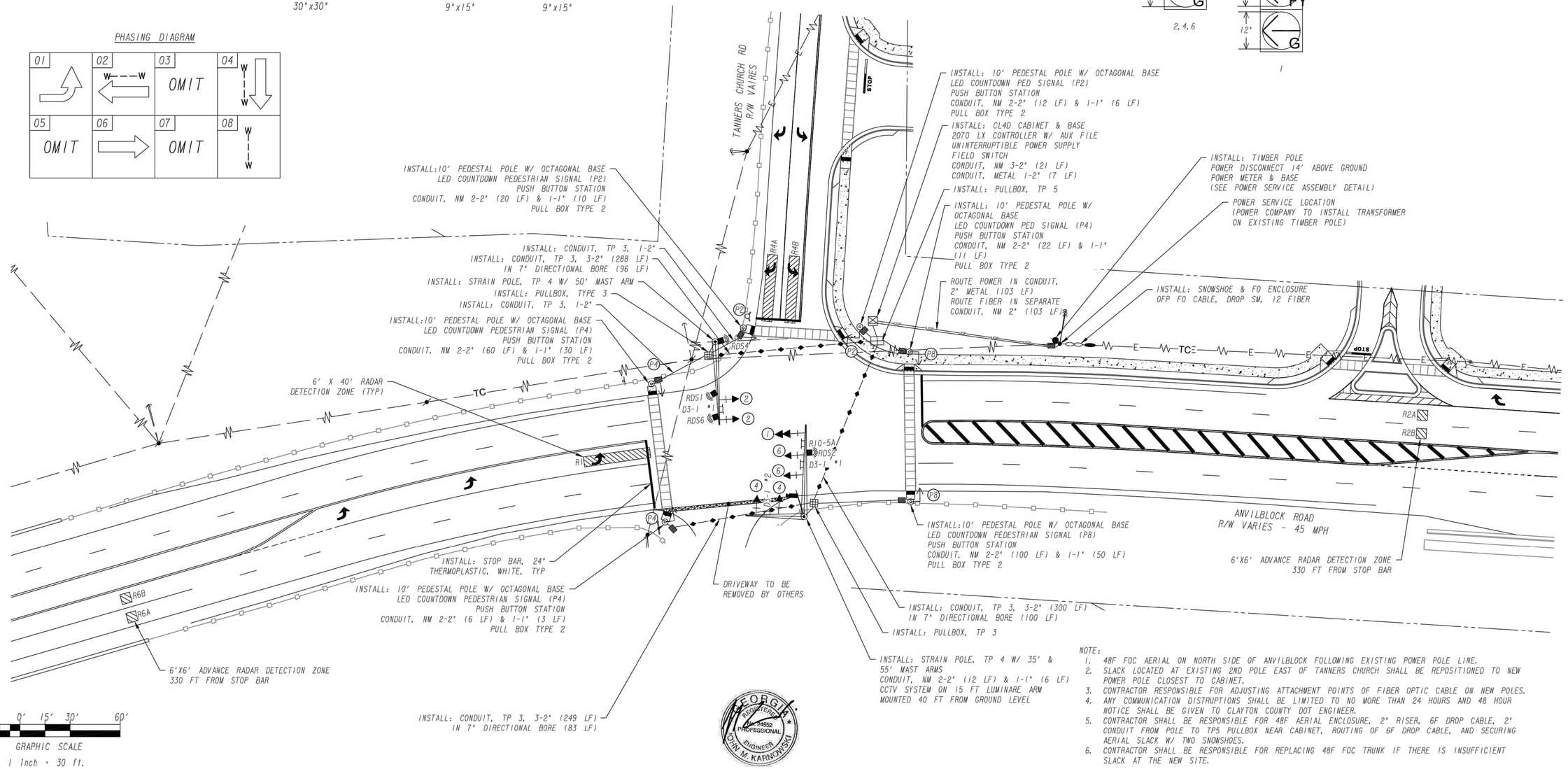
1

PEDESTRIAN HEADS



P2, P4, P8

PHASING DIAGRAM



NOTE:
1. 48F FOC AERIAL ON NORTH SIDE OF ANVILBLOCK FOLLOWING EXISTING POWER POLE LINE.
2. SLACK LOCATED AT EXISTING 2ND POLE EAST OF TANNERS CHURCH SHALL BE REPOSITIONED TO NEW POWER POLE CLOSEST TO CABINET.
3. CONTRACTOR RESPONSIBLE FOR ADJUSTING ATTACHMENT POINTS OF FIBER OPTIC CABLE ON NEW POLES.
4. ANY COMMUNICATION DISTRUPTIONS SHALL BE LIMITED TO NO MORE THAN 24 HOURS AND 48 HOUR NOTICE SHALL BE GIVEN TO CLAYTON COUNTY DOT ENGINEER.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR 48F AERIAL ENCLOSURE, 2" RISER, 6F DROP CABLE, 2" CONDUIT FROM POLE TO TP5 PULLBOX NEAR CABINET, ROUTING OF 6F DROP CABLE, AND SECURING AERIAL SLACK W/ TWO SNOWSHOES.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING 48F FOC TRUNK IF THERE IS INSUFFICIENT SLACK AT THE NEW SITE.

30' 0' 15' 30' 60'
GRAPHIC SCALE
1 Inch = 30 ft.

GEORGIA REGISTERED 24552 PROFESSIONAL ENGINEER JOHN M. KARNOWSKI

SIGNAL LEGEND

- STRAIN POLE
- MAST ARM
- 3 SECTION HEAD W/ BACKPLATE
- 4 SECTION HEAD W/ BACKPLATE
- CONTROLLER CABINET
- PED SIGNAL HEAD
- PULL BOX, TP 3
- PEDESTAL POLE
- PULL BOX, TP 2
- PULL BOX, TP 5

DETECTION LEGEND

- 6 X 40 DETECTION ZONE
- 6 X 6 DETECTION ZONE
- CONDUIT, BORED
- PROPOSED RADAR

DATE: 08/02/2021

DESIGNED BY: JMK
DRAWN BY: AMK
CHECKED BY: JMK
SUPERVISED BY: JMK

N|V|5
1255 CANTON ST, SUITE G
ROSWELL, GA 30075
(678) 795-3600
WWW.NV5.COM

REVISION DATES

08/25/21		
09/03/21		
09/20/21		
10/04/21		
10/15/21		
12/29/21		
01/10/22		

CLAYTON COUNTY
DEPARTMENT OF TRANSPORTATION

ANVILBLOCK RD @ TANNERS CHURCH RD SIGNAL DESIGN

PROJECT NO. 2020120.00

DRAWING No.
27-02

LIST OF MATERIALS

FOR INFORMATION PURPOSES ONLY		
DESCRIPTION	UNIT	QUANTITY
CONTROLLER CABINET ASSEMBLIES		
A. CONTROLLER UNIT, 2070 LX	EA	1
B. CL4D CABINET W/ BASE	EA	1
C. SWITCHPACK	EA	7
D. DC ISOLATOR	EA	3
E. AUXILIARY FILE	EA	1
F. UNINTERRUPTIBLE POWER SYSTEM	EA	1
G. CONFLICT MONITOR WITH IP COMM	EA	1
SIGNAL CABLE (14 AWG)		
A. 7 CONDUCTOR PER 1000 FT.	REEL	3
3–SECTION, 12" LED SIGNAL HEAD, BLACK HOUSING WITH BLACK FRONT, PLASTIC	EA	6
4–SECTION, 12" LED SIGNAL HEAD, BLACK HOUSING WITH BLACK FRONT, PLASTIC	EA	1
1–SECTION, 18" LED COUNTDOWN PED SIGNAL, FULL HAND/MAN OVERLAP, 9" HIGH NUMBERS & 12" SYMBOL	EA	6
BACK PLATE FOR ONE–WAY 3–SECTION, 12" SIGNAL HEAD, ABS PLASTIC, WITH 2" RETROFLECTIVE TAPE	EA	6
BACK PLATE FOR ONE–WAY 4–SECTION, 12" SIGNAL HEAD, ABS PLASTIC, WITH 2" RETROFLECTIVE TAPE	EA	1
HARDWARE FOR MAST ARM SIGNAL HEAD MOUNTING	EA	11
PED PUSHBUTTON STATION w/BUTTONS & SIGNS: 9" x 15", R10–3E, (L)EFT OR (R)IGHT, COUNTDOWN W/PUSHBUTTONS, R10–3E	EA	6
10 FT PEDESTAL POLE AND OCTAGONAL BASE	EA	6
PULL BOX, TP 2	EA	9
PULL BOX, TP 3	EA	2
PULL BOX, TP 5	EA	1
CONDUIT, 1", TYPE 3	LF	125
CONDUIT, 2", TYPE 3	LF	1220
CONDUIT, 2", METAL	LF	115
R10–5A, "LEFT TURN YIELD ON FLASHING YELLOW ARROW"	EA	1
INTERNALLY ILLUMINATED STREET NAME SIGN	EA	3
INTERNALLY ILLUMINATED STREET NAME SIGN CONTROL ASSEMBLY	EA	1
CCTV CAMERA SYSTEM, TYPE 1	EA	1
FIELD SWITCH, TYPE A	EA	1
SFP FIBER MODULE, TYPE 1 (LX)	EA	2
FIBER OPTIC SPLICE, FUSION	EA	8
FIBER OPTIC CLOSURE, FDC, RACK–MOUNTED, SWING OUT TRAY	EA	1
FIBER OPTIC CLOSURE, AERIAL, 48–FIBER	EA	1
OUTSIDE PLANT FIBER OPTIC CABLE, LOOSE TUBE, SINGLE MODE, 48–FIBER	LF	1600
OUTSIDE PLANT FIBER OPTIC CABLE, DROP, SINGLE MODE, 6–FIBER	LF	300
PED DETECTOR LEAD–IN WIRE (SHIELDED, TWISTED/1000FT), 3 PAIR, 18 AWG	EA	2
LC/LC DUPLEX. SM, FIBER JUMPER, 2M	EA	2
MISC MATL TO COMPLETE INSTALLATION	LUMP	LUMP

PAY ITEMS			
NUMBER	DESCRIPTION	UNIT	QUANTITY
639–4004	STRAIN POLE, TP IV, 50 FT ARM	EA	1
639–4004	STRAIN POLE, TP IV, DUAL ARM 35 FT & 55 FT ARMS	EA	1
647–1000	TRAFFIC SIGNAL INSTALLATION NO. 1	LUMP	1
647–3000	EDGE–LIT STREET SIGN	EA	3
647–3100	INTERNALLY ILLUMINATED STREET NAME SIGN CONTROL ASSEMBLY	EA	3
680–5275	LUMINAIRE BRACKET ARM, 15 FT	EA	1
682–9950	7" DIRECTIONAL BORE	LF	280
935–3202	FIBER OPTIC CLOSURE, AERIAL (SEALED), 12 FIBER	EA	1
935–5060	FIBER OPTIC SNOWSHOE	EA	1
937–6000	WAVETRONIX MATRIX RADAR DETECTION UNIT	EA	2
937–6000	WAVETRONIX ADVANCE EXTENDED RANGE RADAR DETECTION UNIT	EA	2
937–6000	WAVETRONIX CLICK 65X W/ CABLING AND HARDWARE	EA	1

NOTE: QUANTITIES ARE ESTIMATES AND SHOULD BE VERIFIED BY CONTRACTOR

332 CABINET INPUT ASSIGNMENT

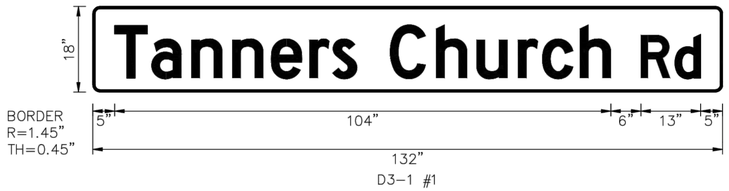
UPPER INPUT FILE

		SLOT	1	2	3	4	5	6	7	8	9	10	11	12	13	14
		TYPE	RADAR	RADAR	DET	DET	DET	RADAR	RADAR	DET	DC	TBA	TBA	DC	DC	DC
		CARD												DC ISO	DC ISO	
CHANNEL 1	C1 PIN		56	39	63	47	58	41	65	49	60		80	67	68	81
	FUNCTION		R1	R2A				R4						Ø2 PED	Ø4 PED	FLASH SENSE
	FIELD TERM		TB2 1,2	TB2 5,6	TB2 9,10	TB4 1,2	TB4 5,6	TB4 9,10	TB6 1,2	TB6 5,6	TB6 9,10			TB8 4,6	TB8 7,9	N/C
CHANNEL 2	C1 PIN		56	43	76	47	58	45	78	49	62		53	69	70	82
	FUNCTION			R2B											Ø8 PED	STOP TIME
	FIELD TERM		TB2 3,4	TB2 7,8	TB2 11,12	TB4 3,4	TB4 7,8	TB4 11,12	TB6 3,4	TB6 7,8	TB6 11,12			TB8 5,6	TB8 8,9	N/C

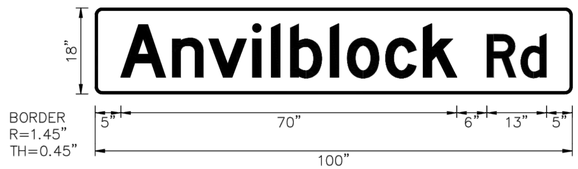
LOWER INPUT FILE

		SLOT	1	2	3	4	5	6	7	8	9	10	11	12	13	14
		TYPE	RADAR	RADAR	DET	DET	DET	RADAR	DET	DET	DET	TBA	TBA	DC	DC	DC
		CARD														
CHANNEL 1	C1 PIN		55	40	64	48	57	42	66	50	59		54	71	72	51
	FUNCTION			R6A												
	FIELD TERM		TB3 1,2	TB3 5,6	TB3 9,10	TB5 1,2	TB5 5,6	TB5 9,10	TB7 1,2	TB7 5,6	TB7 9,10			TB9 4,6	TB9 7,9	TB9 10,12
CHANNEL 2	C1 PIN		55	44	77	48	57	46	79	50	61		75	73	74	52
	FUNCTION			R6B												
	FIELD TERM		TB3 3,4	TB3 7,8	TB3 11,12	TB5 3,4	TB5 7,8	TB5 11,12	TB7 3,4	TB7 7,8	TB7 11,12			TB9 5,6	TB9 8,9	TB9 11,12

EDGE–LIT LED OVERHEAD SIGNS & HARDWARE

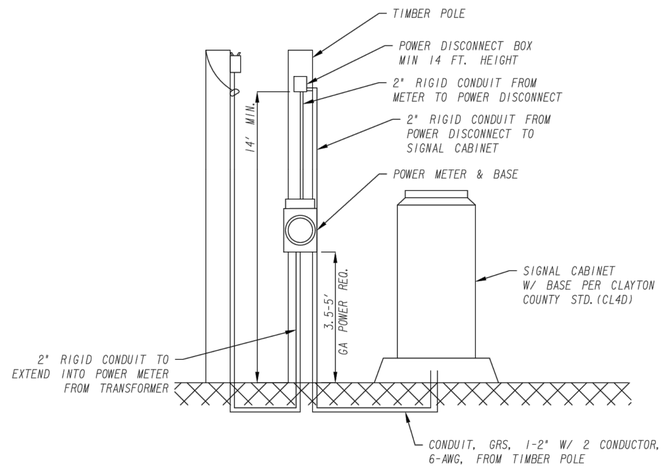


D3–1 #1



D3–1 #2

POWER SERVICE ASSEMBLY DETAIL



DATE: 08/02/2021

DESIGNED BY: JMK
DRAWN BY: AMK
CHECKED BY: JMK
SUPERVISED BY: JMK

N|V|5
1255 CANTON ST, SUITE G
ROSWELL, GA 30075
(678) 795-3600
WWW.NV5.COM

REVISION DATES		
08/25/21		
09/03/21		
09/20/21		
10/04/21		
10/15/21		
12/29/21		
01/10/22		

CLAYTON COUNTY
DEPARTMENT OF TRANSPORTATION

ANVILBLOCK RD @ TANNERS CHURCH RD SIGNAL DESIGN

PROJECT NO. 2020120.00

DRAWING No. 27-03