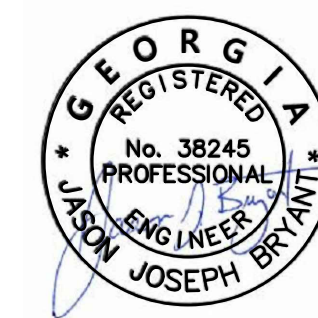


SITE CONSTRUCTION PLANS

FOR

FREEDOM ROAD COMPLETION

PREPARED FOR:
EFFINGHAM COUNTY,
GEORGIA



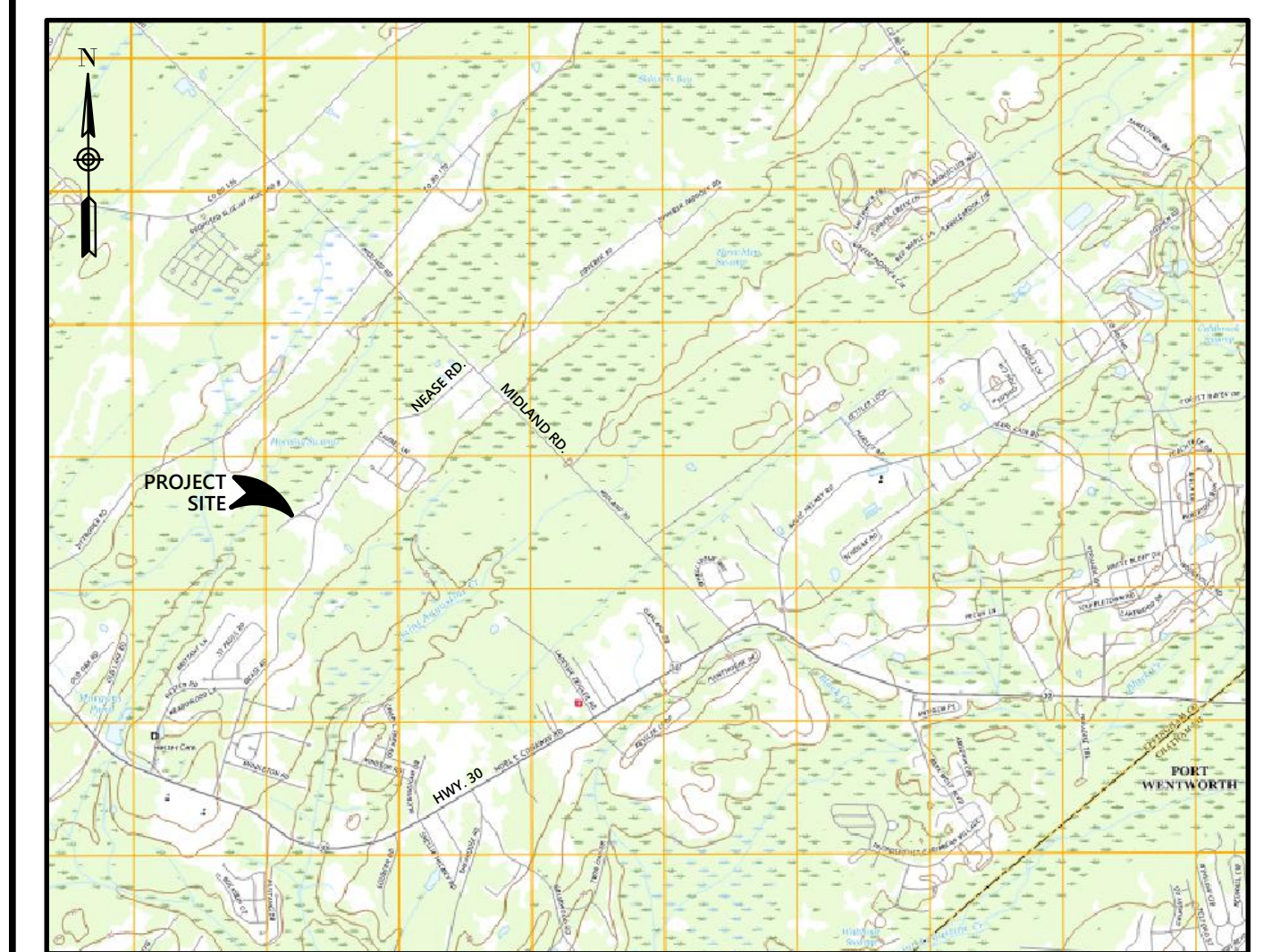
I certify that I have been in responsible charge of the design of this project in accordance with the rules of the Georgia State Board of Registration for Professional Engineers and Land Surveyors. I further certify, to the best of my knowledge and belief, that these plans and specifications were prepared in accordance with current standard engineering practices and accurately reflect the Design Development Report (DDR) previously reviewed and concurred in by EPD. I further certify that the system as designed can reasonably be expected to consistently meet all currently applicable permit limits, conditions, and regulatory requirements, provided the facility is constructed as designed and properly operated and maintained.

The development of the included construction plans can be expected to not increase the rate of runoff per county requirements, provided the facility is constructed as designed and properly operated and maintained.

SEPTEMBER 17, 2021

JOB NUMBER: 21-266

PREPARED BY:
Pittman Engineering Co., LLC



VICINITY MAP

Sheet List Table

Sheet Number	Sheet Title
CO	COVER SHEET
CO.1	GENERAL NOTES
C1.1	EXISTING CONDITIONS PLAN
C1.2	DEMOLITION PLAN
C2.1	SITE CONSTRUCTION PLAN
C2.2	STORM DRAINAGE PROFILES
C2.3	SITE CONSTRUCTION DETAILS
EC1.1	EROSION CONTROL PLAN
EC1.2	EROSION CONTROL DETAILS

PROJECT DATA

COUNTY CONTACT: ERIC LARSON
EFFINGHAM COUNTY
ASSISTANT COUNTY MANAGER
601 N LAUREL ST.
SPRINGFIELD, GA 31329
(912) 754-8061

24 HOUR CONTACT: ERIC LARSON
TELEPHONE: (912) 754-8061

JURISDICTION: EFFINGHAM COUNTY, GEORGIA

TAX MAP #: 0375P0000001R00
ZONING: PD

FEMA FLOOD ZONE: X
FEMA FLOOD PANEL: MAP NUMBER 13103C0355E,
MAP DATED: 3/16/15

APPROXIMATE LOCATION OF SITE: BRYAN COUNTY, GEORGIA

LATITUDE: ---
LONGITUDE: ---
VERTICAL DATUM: NAVD 88

REVISION LISTING

REV. NO.	REVISION	BY	DATE

PITTMAN ENGINEERING
2591 Highway 17, Suite 303
Richmond Hill, GA 31324
(912)445-0578
www.PittmanEngineeringCo.com

LEGEND

EXISTING PAVEMENT [Symbol]

EXISTING CONCRETE [Symbol]

EXISTING GRAVEL [Symbol]

EXISTING CONCRETE MONUMENT FOUND 3X3" CMF

EXISTING REBAR FOUND 5/8" RBF

EXISTING SPOT ELEVATION 68.50 X

EXISTING CONTOUR 69

EXISTING STORM DRAINAGE PIPE SD

EXISTING STORM DRAINAGE CURB INLET [Symbol]

EXISTING SANITARY SEWER PIPE SS

EXISTING SANITARY SEWER MANHOLE [Symbol]

EXISTING FIRE HYDRANT [Symbol]

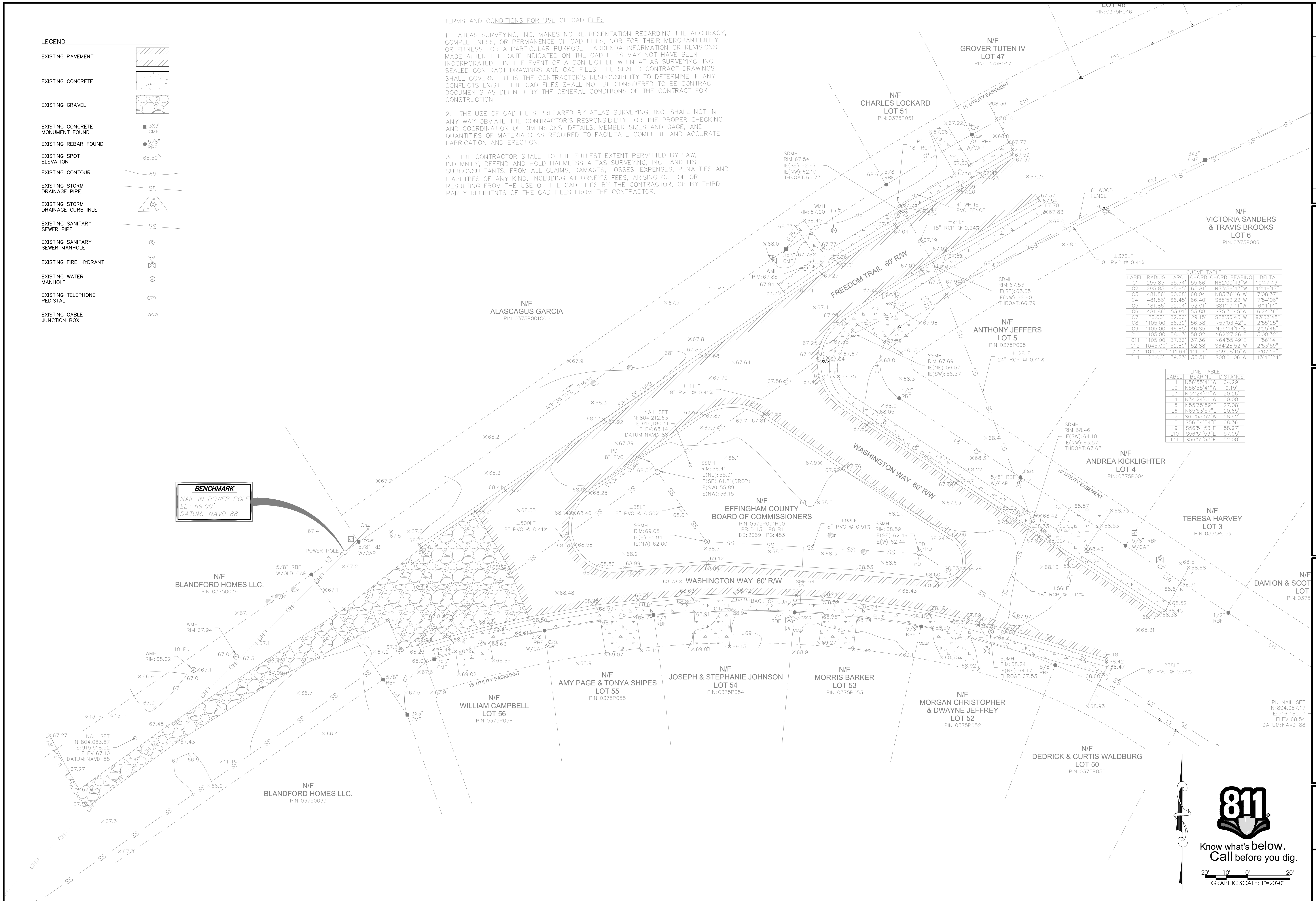
EXISTING WATER MANHOLE [Symbol]

EXISTING TELEPHONE PEDISTAL TEL

EXISTING CABLE JUNCTION BOX CB

TERMS AND CONDITIONS FOR USE OF CAD FILE:

1. ATLAS SURVEYING, INC. MAKES NO REPRESENTATION REGARDING THE ACCURACY, COMPLETENESS, OR PERMANENCE OF CAD FILES, NOR FOR THEIR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ADDENDA INFORMATION OR REVISIONS MADE AFTER THE DATE INDICATED ON THE CAD FILES MAY NOT HAVE BEEN INCORPORATED. IN THE EVENT OF A CONFLICT BETWEEN ATLAS SURVEYING, INC. SEALED CONTRACT DRAWINGS AND CAD FILES, THE SEALED CONTRACT DRAWINGS SHALL GOVERN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE IF ANY CONFLICTS EXIST. THE CAD FILES SHALL NOT BE CONSIDERED TO BE CONTRACT DOCUMENTS AS DEFINED BY THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION.
2. THE USE OF CAD FILES PREPARED BY ATLAS SURVEYING, INC. SHALL NOT IN ANY WAY OBTIATE THE CONTRACTOR'S RESPONSIBILITY FOR THE PROPER CHECKING AND COORDINATION OF DIMENSIONS, DETAILS, MEMBER SIZES AND GAGE, AND QUANTITIES OF MATERIALS AS REQUIRED TO FACILITATE COMPLETE AND ACCURATE FABRICATION AND ERECTION.
3. THE CONTRACTOR SHALL, TO THE FULLEST EXTENT PERMITTED BY LAW, INDEMNIFY, DEFEND AND HOLD HARMLESS ATLAS SURVEYING, INC., AND ITS SUBCONSULTANTS, FROM ALL CLAIMS, DAMAGES, LOSSES, EXPENSES, PENALTIES AND LIABILITIES OF ANY KIND, INCLUDING ATTORNEY'S FEES, ARISING OUT OF OR RESULTING FROM THE USE OF THE CAD FILES BY THE CONTRACTOR, OR BY THIRD PARTY RECIPIENTS OF THE CAD FILES FROM THE CONTRACTOR.



CURVE TABLE

LABEL	RADIUS	ARC LENGTH	CHORD	CHORD BEARING	DELTA
C1	295.85	55.74	55.66	N62°09'43" W	10°47'43"
C2	295.85	65.95	65.81	N73°56'43" W	12°46'17"
C3	481.86	60.08	60.04	N83°36'16" W	7°28'37"
C4	481.86	66.45	66.40	N88°52'22" W	7°44'05"
C5	481.86	52.04	52.01	S81°49'41" W	6°11'14"
C6	481.86	53.91	53.88	S75°31'45" W	6°24'56"
C7	20.00	32.64	29.19	S23°36'43" W	9°33'48"
C8	1105.00	56.39	56.38	N57°03'42" E	2°55'29"
C9	1105.00	46.85	46.85	N59°44'17" E	2°25'46"
C10	1105.00	58.03	58.02	N62°27'25" E	3°00'52"
C11	1105.00	37.36	37.36	N64°53'49" E	1°46'14"
C12	1045.00	52.89	52.88	S64°28'52" W	2°53'59"
C13	1045.00	111.64	111.59	S59°58'15" W	6°07'16"
C14	20.00	39.73	33.51	S00°01'06" W	11°34'48" 24"

LINE TABLE

LABEL	BEARING	DISTANCE
L1	N56°55'41" W	64.29
L2	N56°55'41" W	9.19
L3	N34°24'01" W	20.26
L4	N34°24'01" W	60.00
L5	N53°53'59" E	27.08
L6	N65°53'57" E	20.65
L7	S65°55'52" W	58.92
L8	S56°54'54" E	68.36
L9	S46°51'53" E	58.97
L10	S56°51'53" E	57.95
L11	S56°51'53" E	52.00

BENCHMARK
NAIL IN POWER POLE
EL.: 69.00'
DATUM: NAVD 88

NO.	REVISIONS	BY	DATE

JASON J. BRYANT, P.E.
GSWCC LEVEL I
DESIGN PROFESSIONAL
CERTIFICATION #73897

REGISTERED PROFESSIONAL ENGINEER
No. 38245
JASON J. BRYANT, P.E.
JOSEPH

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EXISTING CONDITIONS PLAN

FREEDOM ROAD COMPLETION

GUYTON, GA

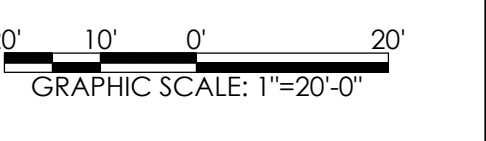
Prepared For
EFFINGHAM CO. GEORGIA

Project No. 21-266
Drawn By: JAF
Designed By: DMB
Checked By: JJB
Scale: 1"=20'
Date: 9/17/21

SHEET
C1.1

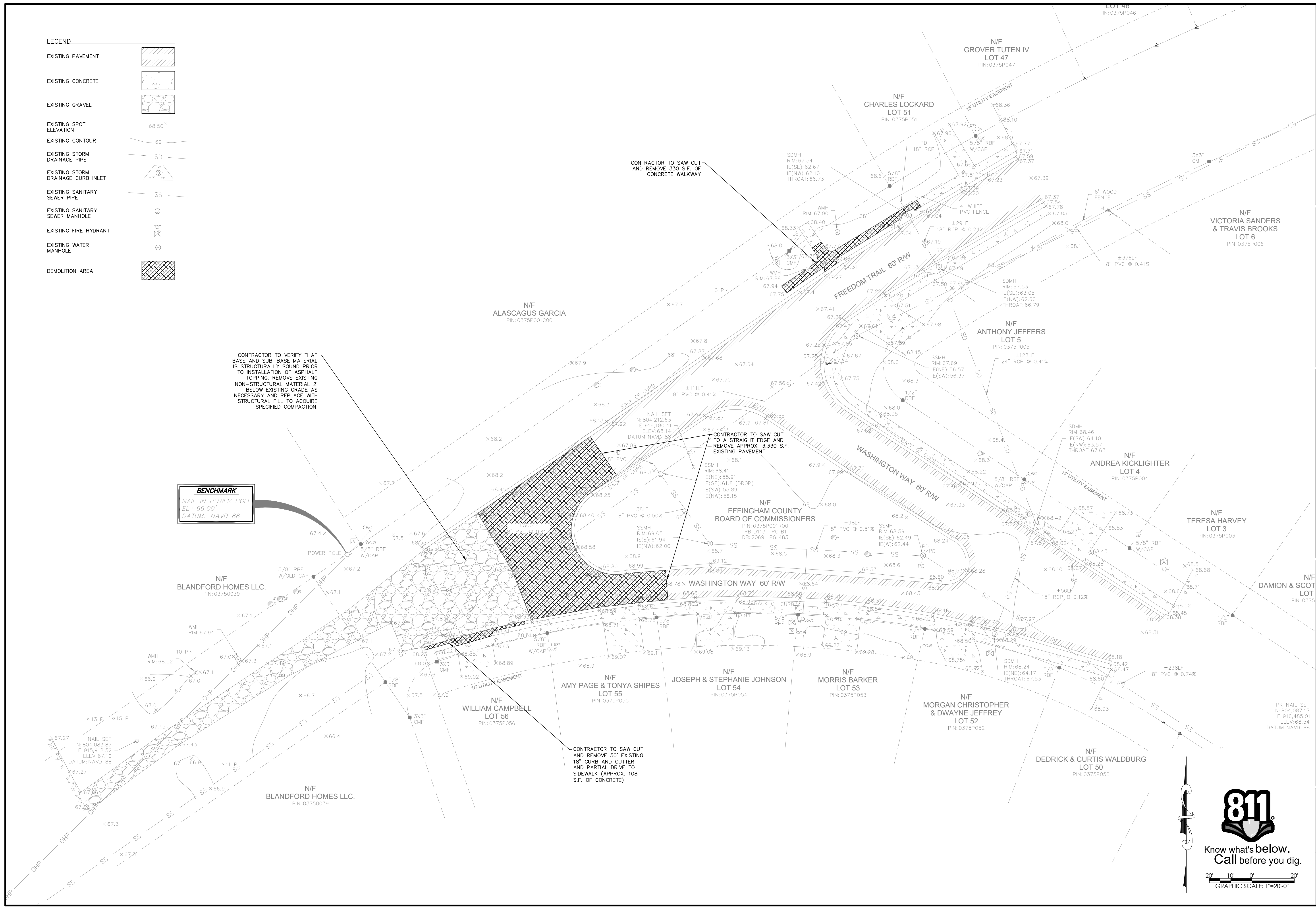


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LEGEND

EXISTING PAVEMENT	
EXISTING CONCRETE	
EXISTING GRAVEL	
EXISTING SPOT ELEVATION	68.50 ^x
EXISTING CONTOUR	-69-
EXISTING STORM DRAINAGE PIPE	SD
EXISTING STORM DRAINAGE CURB INLET	
EXISTING SANITARY SEWER PIPE	SS
EXISTING SANITARY SEWER MANHOLE	
EXISTING FIRE HYDRANT	
EXISTING WATER MANHOLE	
DEMOLITION AREA	



CONTRACTOR TO VERIFY THAT BASE AND SUB-BASE MATERIAL IS STRUCTURALLY SOUND PRIOR TO INSTALLATION OF ASPHALT TOPPING. REMOVE EXISTING NON-STRUCTURAL MATERIAL 2' BELOW EXISTING GRADE AS NECESSARY AND REPLACE WITH STRUCTURAL FILL TO ACQUIRE SPECIFIED COMPACTION.

BENCHMARK
NAIL IN POWER POLE
EL.: 69.00'
DATUM: NAVD 88

CONTRACTOR TO SAW CUT AND REMOVE 330 S.F. OF CONCRETE WALKWAY

CONTRACTOR TO SAW CUT TO A STRAIGHT EDGE AND REMOVE APPROX. 3,330 S.F. EXISTING PAVEMENT.

CONTRACTOR TO SAW CUT AND REMOVE 50' EXISTING 18" CURB AND GUTTER AND PARTIAL DRIVE TO SIDEWALK (APPROX. 108 S.F. OF CONCRETE)

NO.	REVISIONS	BY	DATE




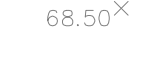



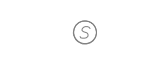




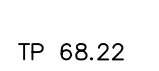



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DEMOLITION PLAN
FREEDOM ROAD COMPLETION
GUYTON, GA
Prepared For
EFFINGHAM CO. GEORGIA

Project No. 21-266
Drawn By: JAF
Designed By: DMB
Checked By: JJB
Scale: 1"=20'
Date: 9/17/21

SHEET
C1.2

- LEGEND**
- EXISTING PAVEMENT 
 - EXISTING CONCRETE 
 - EXISTING GRAVEL 
 - EXISTING SPOT ELEVATION 
 - EXISTING CONTOUR 
 - EXISTING STORM DRAINAGE PIPE 
 - EXISTING STORM DRAINAGE CURB INLET 
 - EXISTING SANITARY SEWER PIPE 
 - EXISTING SANITARY SEWER MANHOLE 
 - EXISTING FIRE HYDRANT 
 - EXISTING WATER MANHOLE 
 - PROPOSED LIGHT-DUTY PAVEMENT 
 - PROPOSED CONCRETE SIDEWALK AND DRIVEWAY 
 - PROPOSED TOP OF PAVEMENT SPOT ELEVATION 
 - PROPOSED STORM DRAINAGE PIPE 
 - PROPOSED STORM DRAINAGE STRUCTURES 

CONTRACTOR TO TIE INTO EXISTING CURB AND GUTTER AT EXISTING CURB GRADES

CONTRACTOR TO VERIFY THAT BASE AND SUB-BASE MATERIAL IS STRUCTURALLY SOUND PRIOR TO INSTALLATION OF ASPHALT TOPPING. REMOVE EXISTING NON-STRUCTURAL MATERIAL 2' BELOW EXISTING GRADE AS NECESSARY AND REPLACE WITH STRUCTURAL FILL TO ACQUIRE SPECIFIED COMPACTION.

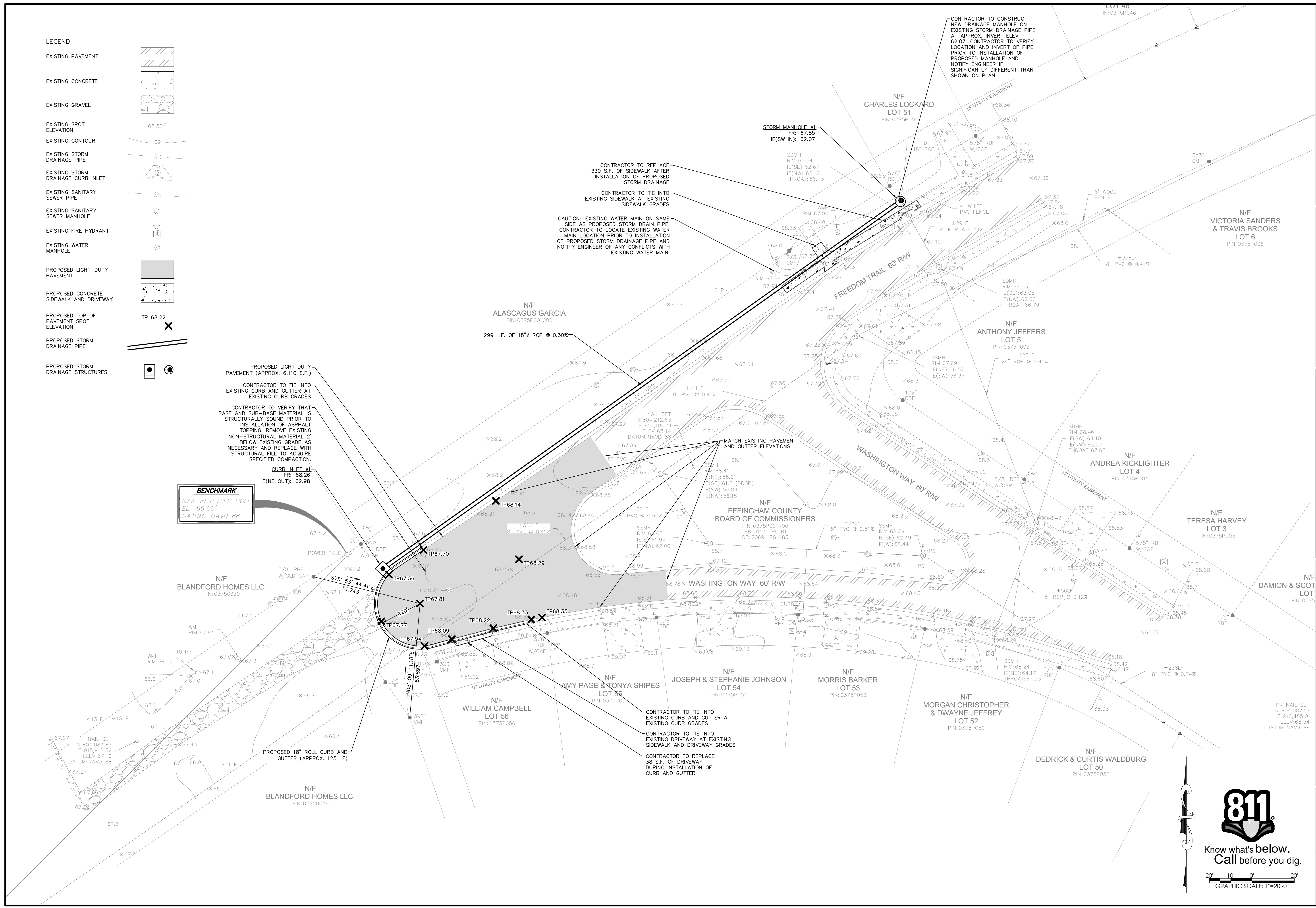
BENCHMARK
 NAIL IN POWER POLE
 EL.: 69.00'
 DATUM: NAVD 88

CONTRACTOR TO REPLACE 330 S.F. OF SIDEWALK AFTER INSTALLATION OF PROPOSED STORM DRAINAGE

CONTRACTOR TO TIE INTO EXISTING SIDEWALK AT EXISTING SIDEWALK GRADES

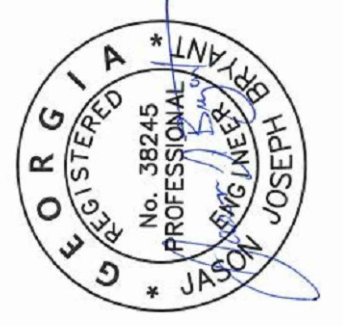
CAUTION: EXISTING WATER MAIN ON SAME SIDE AS PROPOSED STORM DRAIN PIPE. CONTRACTOR TO LOCATE EXISTING WATER MAIN LOCATION PRIOR TO INSTALLATION OF PROPOSED STORM DRAINAGE PIPE AND NOTIFY ENGINEER OF ANY CONFLICTS WITH EXISTING WATER MAIN.

CONTRACTOR TO CONSTRUCT NEW DRAINAGE MANHOLE ON EXISTING STORM DRAINAGE PIPE AT APPROX. INVERT ELEV. 62.07. CONTRACTOR TO VERIFY LOCATION AND INVERT OF PIPE PRIOR TO INSTALLATION OF PROPOSED MANHOLE AND NOTIFY ENGINEER IF SIGNIFICANTLY DIFFERENT THAN SHOWN ON PLAN



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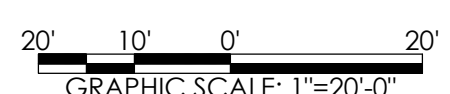
SITE CONSTRUCTION PLAN
FREEDOM ROAD COMPLETION
 GUYTON, GA
 Prepared For
EFFINGHAM CO. GEORGIA

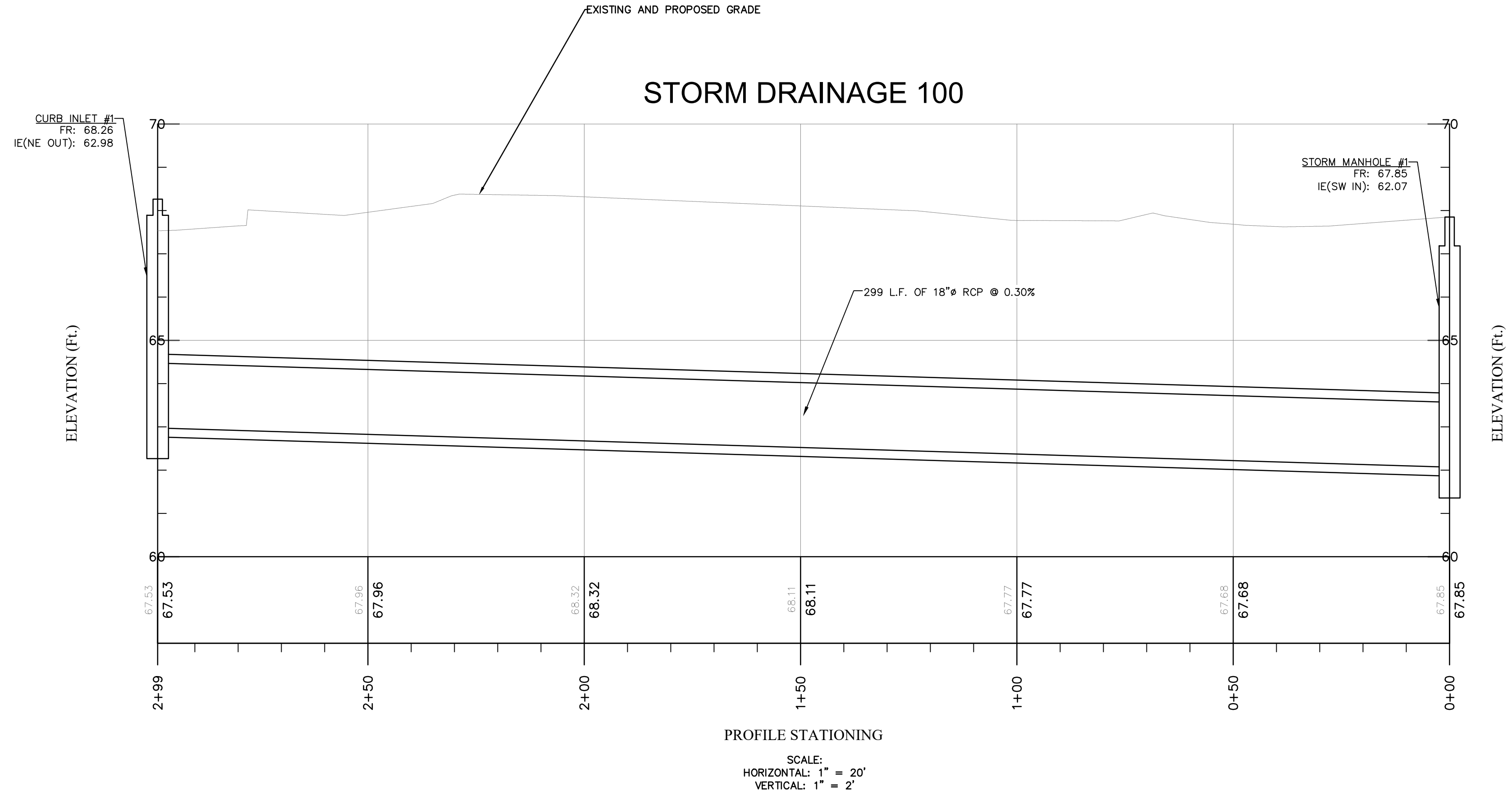
Project No. 21-266
 Drawn By: JAF
 Designed By: DMB
 Checked By: JJB
 Scale: 1"=20'
 Date: 9/17/21

SHEET
C2.1



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GSWCC LEVEL I
DESIGN PROFESSIONAL
CERTIFICATION #73897

JOSEPH H. ...

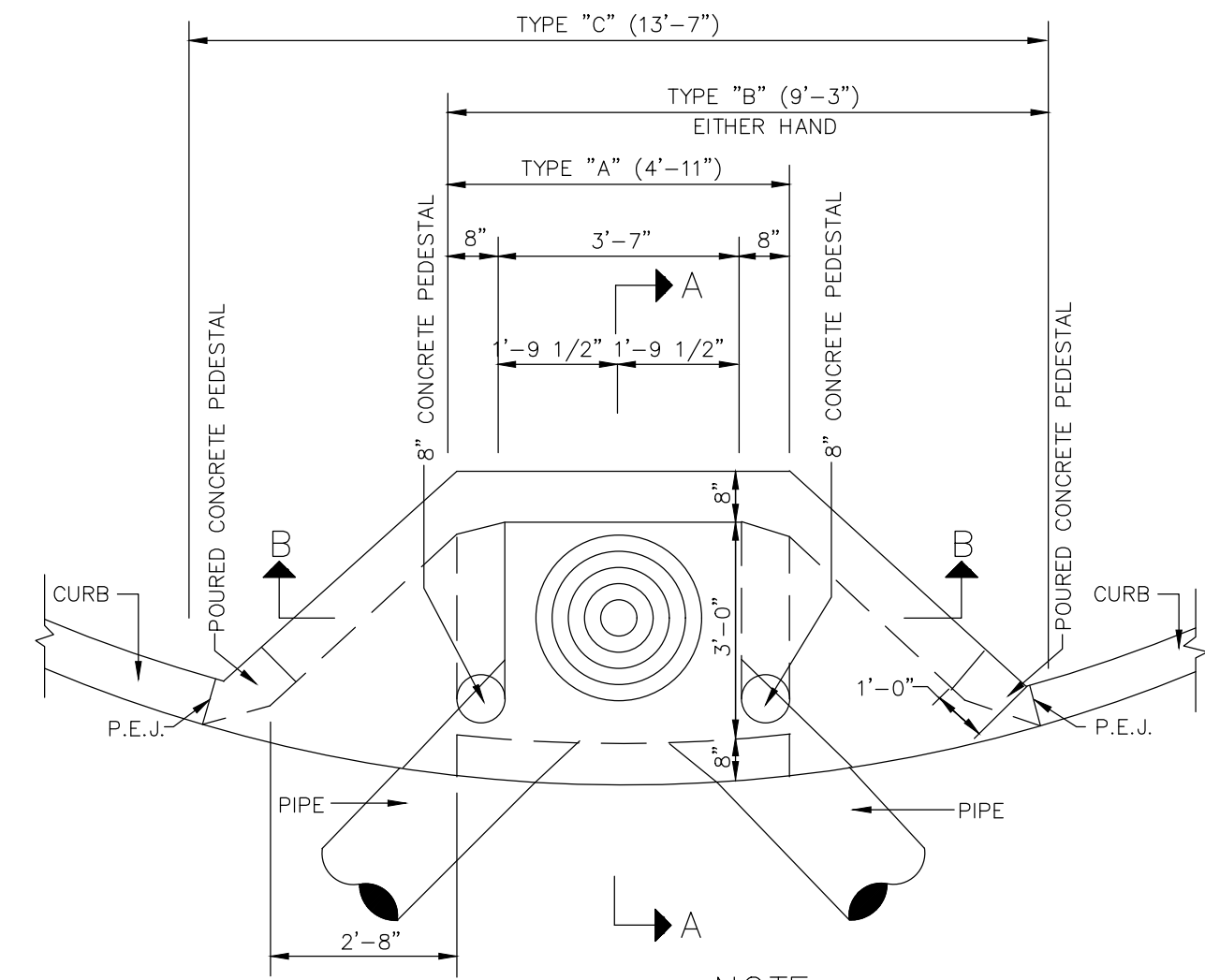
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Richmond Hill, GA 31324
912-445-0578
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STORM DRAINAGE PROFILES
FREEDOM ROAD COMPLETION
GUYTON, GA
Prepared For
EFFINGHAM CO. GEORGIA

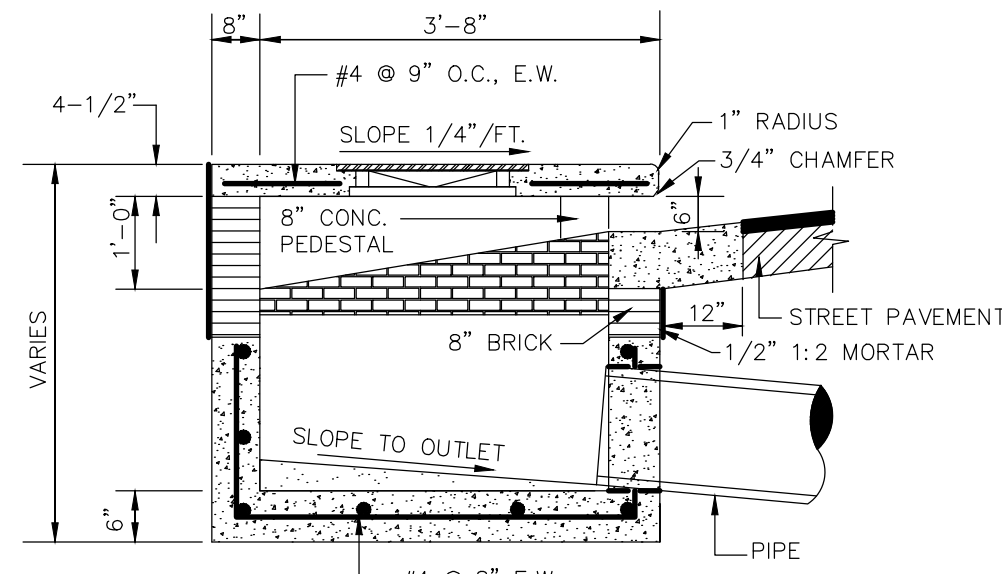
Project No. 21-266
Drawn By: JAF
Designed By: DMB
Checked By: JJB
Scale: 1"=20'
Date: 9/17/21

SHEET
C2.2



PLAN OF CURB INLET ON RADIUS

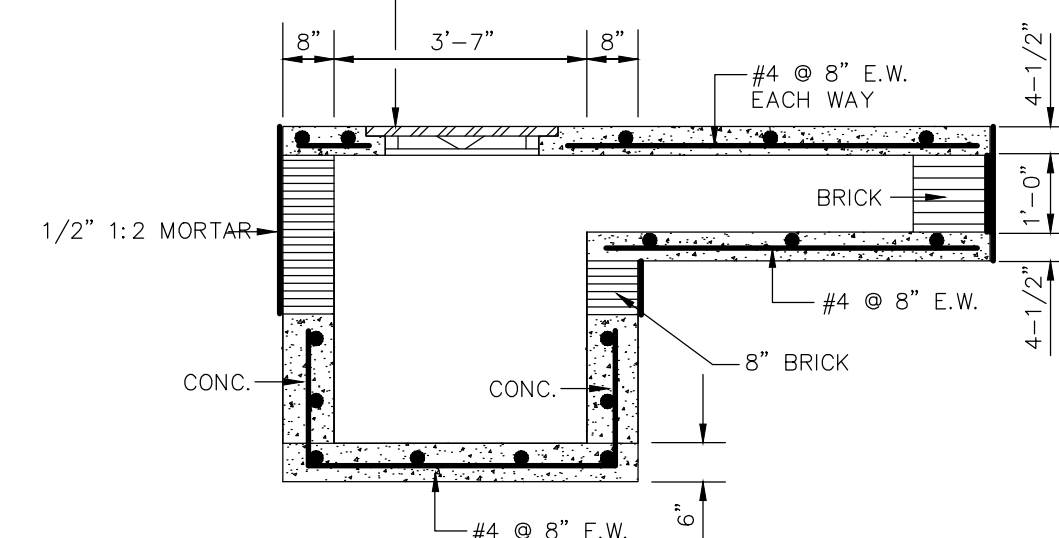
SCALE: N.T.S.



CURB INLET SECTION A-A

SCALE: N.T.S.

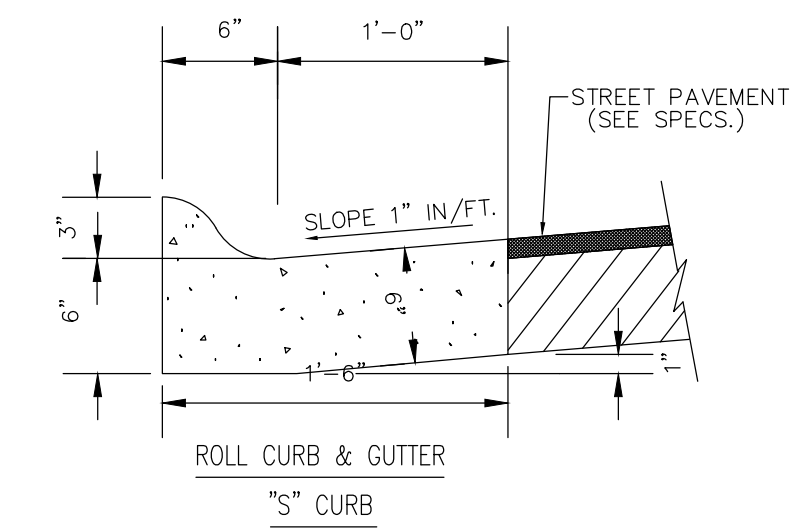
NOTE:
C.I. MANHOLE FRAME AND COVER EQUIVALENT TO NEENAH R-5900-F. FRAME AND COVER TO BE MACHINE FITTED PRIOR TO LEAVING SHOP. WEIGHT - 205 LBS.



CURB INLET SECTION B-B

SCALE: N.T.S.

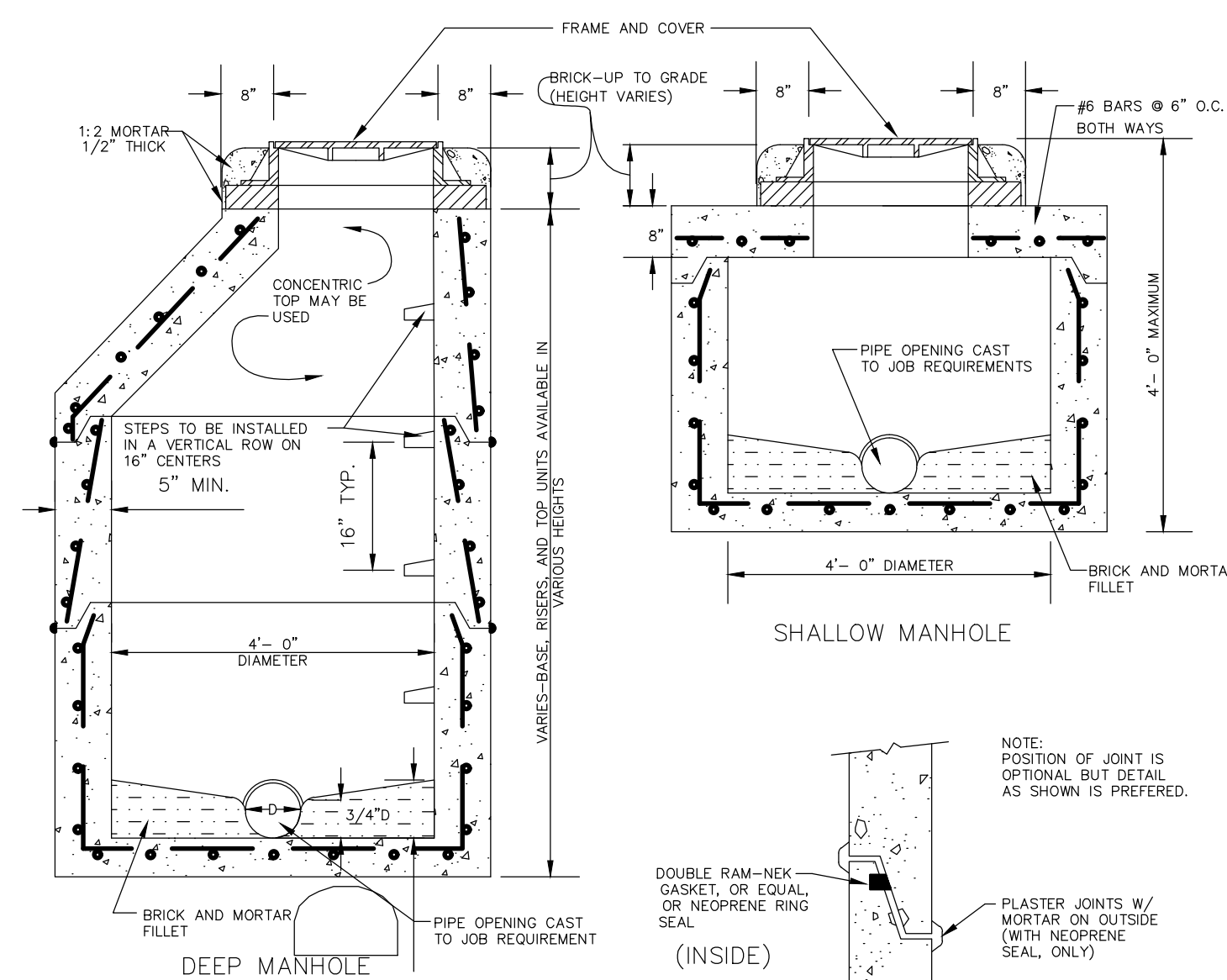
NOTES:
1. MATCH TOP OF PIPE ELEVATIONS WHEN DIFFERENT SIZE PIPES ARE CONSTRUCTED IN CURB INLET.
2. TYPE "B" INLET SHOWN



18" ROLL CURB AND GUTTER DETAIL

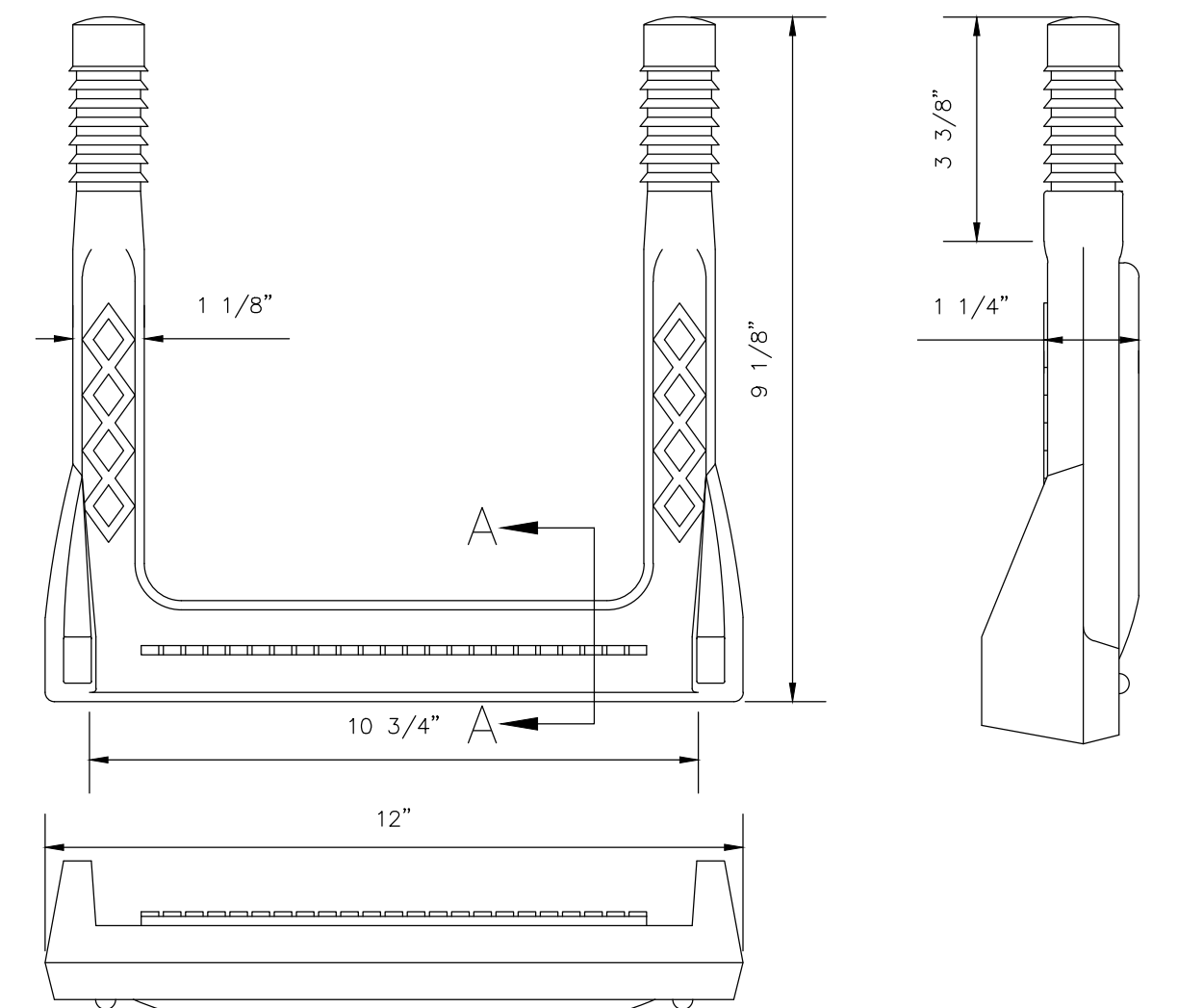
SCALE: N.T.S.

NOTES:
1. ALL CONSTRUCTION SHALL CONFORM TO THE EFFINGHAM CO. TECHNICAL SPECIFICATIONS.
2. BASE COMPACTION UNDER CURB TO BE 98% (ASTM D698).
3. CONTRACTION JOINTS TO BE SAW CUT NO LATER THAN 24 HOURS AFTER THE POUR.

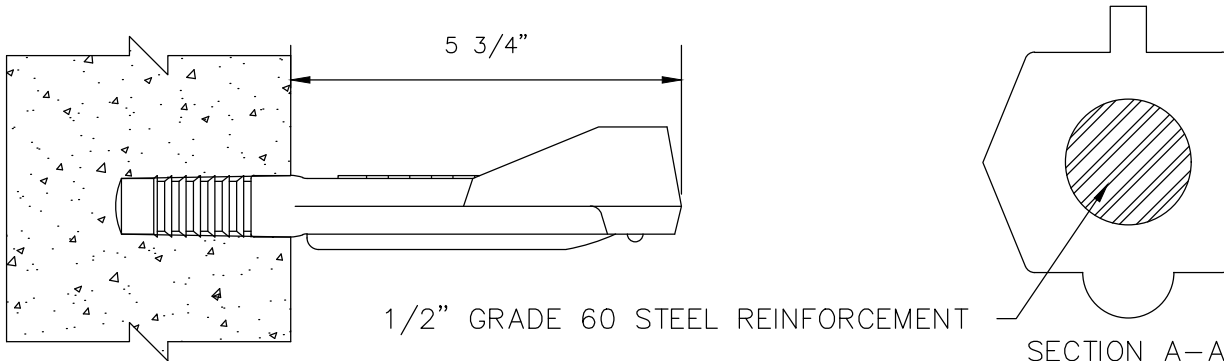


STANDARD PRECAST MANHOLE

SCALE: N.T.S.

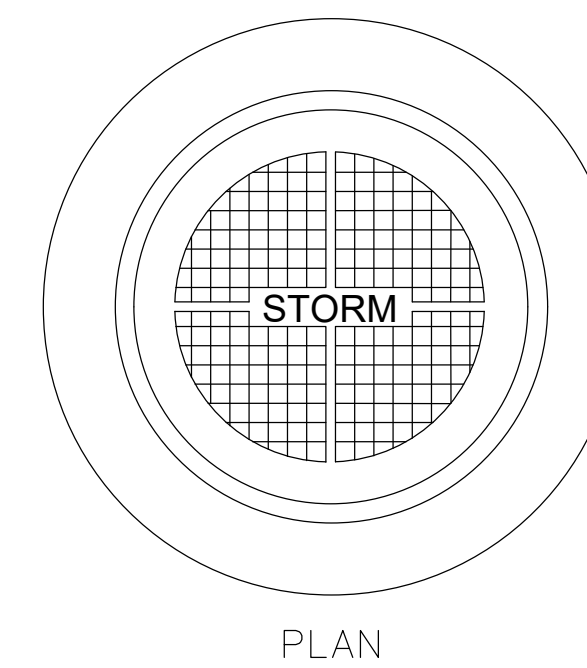


COPOLYMER POLYPROPYLENE PLASTIC

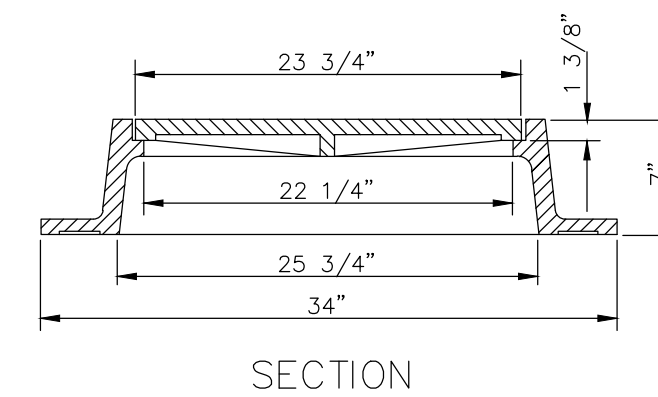


MANHOLE STEP-POLYPROPYLENE

SCALE: N.T.S.



PLAN

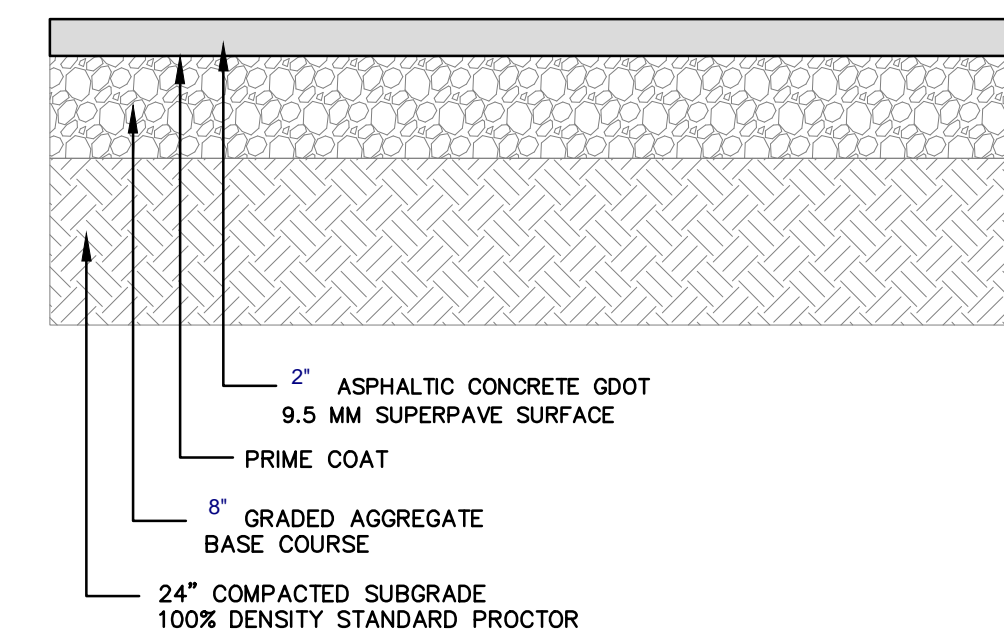


SECTION

STORM MANHOLE RING AND COVER

SCALE: N.T.S.

NOTE:
MANHOLE RIM & COVER SIMILAR TO NEENAH FOUNDRY CO. R-1412-A4. TOTAL WEIGHT 310#. TYPE "C" LID TO HAVE MACHINED BEARING SURFACES. LID TO BE LETTERED "STORM".

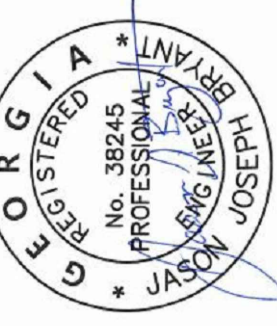


ASPHALT PAVEMENT SECTION

SCALE: N.T.S.

REV.	REVISIONS	BY	DATE

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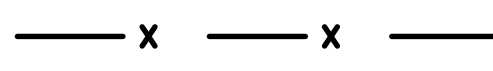
SITE CONSTRUCTION DETAILS
FREEDOM ROAD COMPLETION
GUYTON, GA
Prepared For
EFFINGHAM CO. GEORGIA

Project No. 21-266
Drawn By: JAF
Designed By: DMB
Checked By: JJB
Scale: 1"=20'
Date: 9/17/21

SHEET
C2.3

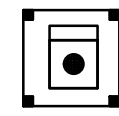
LEGEND

TEMPORARY SILT FENCE
NON-SENSITIVE



Sd1-NS

INLET SEDIMENT TRAP
FILTER FABRIC WITH
FRAME



Sd2-F

INLET SEDIMENT TRAP
CURB INLET PROTECTION
"PIGS IN A BLANKET"



Sd2-P

DUST CONTROL ON
DISTURBED AREAS

Du

DISTURBED AREA
STABILIZATION
(PERMANENT SEEDING)

Ds3

DISTURBED AREA
STABILIZATION
(SOD)

Ds4

SOIL DELINEATION LINE

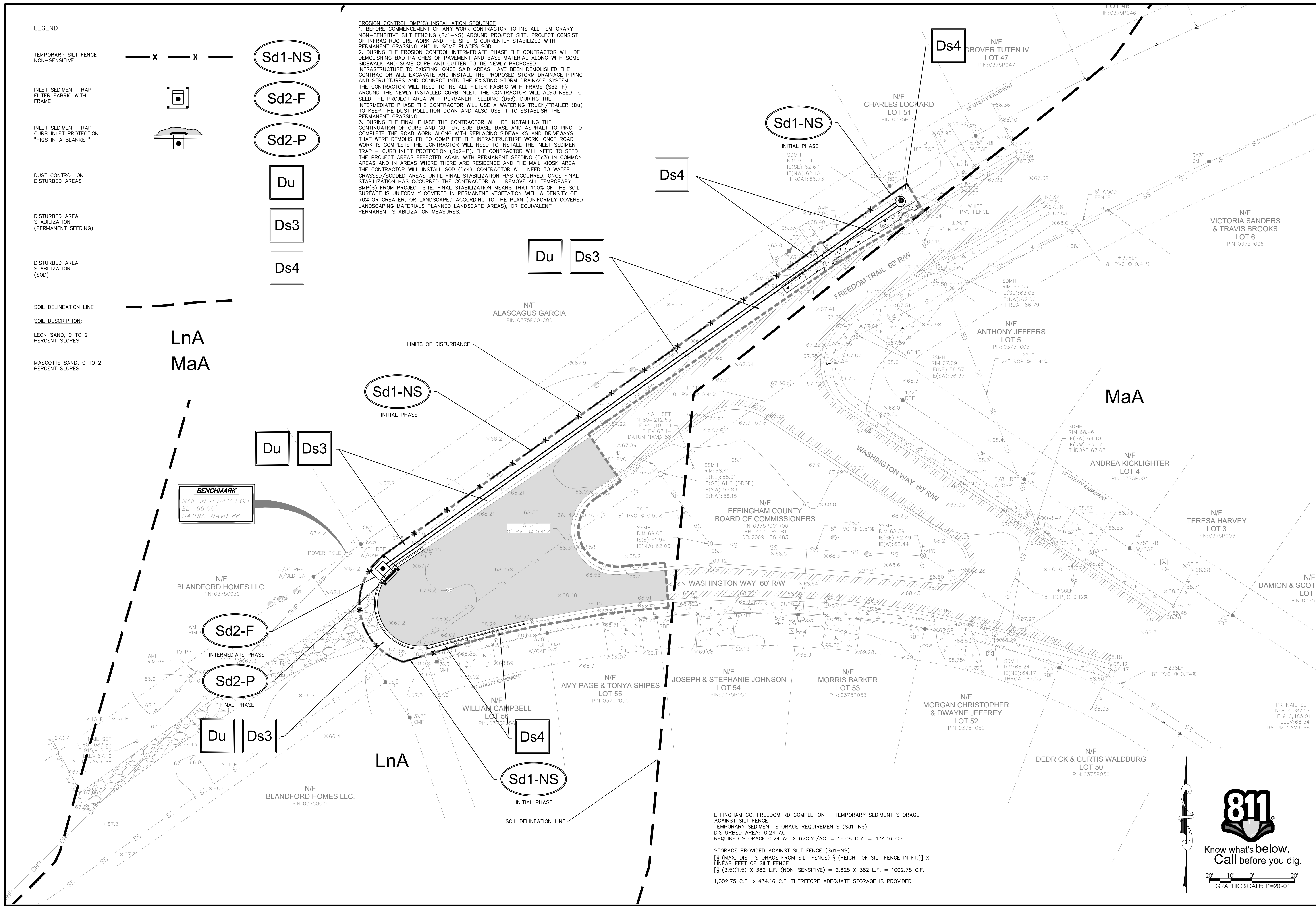
SOIL DESCRIPTION:

LEON SAND, 0 TO 2
PERCENT SLOPES

MASCOTTE SAND, 0 TO 2
PERCENT SLOPES

LnA
MaA

EROSION CONTROL BMP(S) INSTALLATION SEQUENCE
 1. BEFORE COMMENCEMENT OF ANY WORK CONTRACTOR TO INSTALL TEMPORARY NON-SENSITIVE SILT FENCING (Sd1-NS) AROUND PROJECT SITE. PROJECT CONSIST OF INFRASTRUCTURE WORK AND THE SITE IS CURRENTLY STABILIZED WITH PERMANENT GRASSING AND IN SOME PLACES SOD.
 2. DURING THE EROSION CONTROL INTERMEDIATE PHASE THE CONTRACTOR WILL BE DEMOLISHING BAD PATCHES OF PAVEMENT AND BASE MATERIAL ALONG WITH SOME SIDEWALK AND SOME CURB AND GUTTER TO THE NEWLY PROPOSED INFRASTRUCTURE TO EXISTING. ONCE SAID AREAS HAVE BEEN DEMOLISHED THE CONTRACTOR WILL EXCAVATE AND INSTALL THE PROPOSED STORM DRAINAGE PIPING AND STRUCTURES AND CONNECT INTO THE EXISTING STORM DRAINAGE SYSTEM. THE CONTRACTOR WILL NEED TO INSTALL FILTER FABRIC WITH FRAME (Sd2-F) AROUND THE NEWLY INSTALLED CURB INLET. THE CONTRACTOR WILL ALSO NEED TO SEED THE PROJECT AREA WITH PERMANENT SEEDING (Ds3). DURING THE INTERMEDIATE PHASE THE CONTRACTOR WILL USE A WATERING TRUCK/TRAILER (Du) TO KEEP THE DUST POLLUTION DOWN AND ALSO USE IT TO ESTABLISH THE PERMANENT GRASSING.
 3. DURING THE FINAL PHASE THE CONTRACTOR WILL BE INSTALLING THE CONTINUATION OF CURB AND GUTTER, SUB-BASE, BASE AND ASPHALT TOPPING TO COMPLETE THE ROAD WORK ALONG WITH REPLACING SIDEWALKS AND DRIVEWAYS THAT WERE DEMOLISHED TO COMPLETE THE INFRASTRUCTURE WORK. ONCE ROAD WORK IS COMPLETE THE CONTRACTOR WILL NEED TO INSTALL THE INLET SEDIMENT TRAP - CURB INLET PROTECTION (Sd2-P). THE CONTRACTOR WILL NEED TO SEED THE PROJECT AREAS EFFECTED AGAIN WITH PERMANENT SEEDING (Ds3) IN COMMON AREAS AND IN AREAS WHERE THERE ARE RESIDENCE AND THE MAIL KIOSK AREA THE CONTRACTOR WILL INSTALL SOD (Ds4). CONTRACTOR WILL NEED TO WATER GRASSED/SODDED AREAS UNTIL FINAL STABILIZATION HAS OCCURRED. ONCE FINAL STABILIZATION HAS OCCURRED THE CONTRACTOR WILL REMOVE ALL TEMPORARY BMP(S) FROM PROJECT SITE. FINAL STABILIZATION MEANS THAT 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 LANDSCAPING MATERIALS PLANNED LANDSCAPE AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES.



EFFINGHAM CO. FREEDOM RD COMPLETION - TEMPORARY SEDIMENT STORAGE
 AGAINST SILT FENCE
 TEMPORARY SEDIMENT STORAGE REQUIREMENTS (Sd1-NS)
 DISTURBED AREA: 0.24 AC
 REQUIRED STORAGE 0.24 AC X 67C.Y./AC. = 16.08 C.Y. = 434.16 C.F.
 STORAGE PROVIDED AGAINST SILT FENCE (Sd1-NS)
 [1] (MAX. DIST. STORAGE FROM SILT FENCE) X (HEIGHT OF SILT FENCE IN FT.) X
 LINEAR FEET OF SILT FENCE
 [2] (3.5)(1.5) X 382 L.F. (NON-SENSITIVE) = 2.625 X 382 L.F. = 1002.75 C.F.
 1,002.75 C.F. > 434.16 C.F. THEREFORE ADEQUATE STORAGE IS PROVIDED



Know what's below.
 Call before you dig.
 GRAPHIC SCALE: 1"=20'-0"

NO.	REVISIONS	BY	DATE

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 GSWCC LEVEL I
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EROSION CONTROL PLAN
FREEDOM ROAD COMPLETION
 GUYTON, GA
 Prepared For
EFFINGHAM CO. GEORGIA

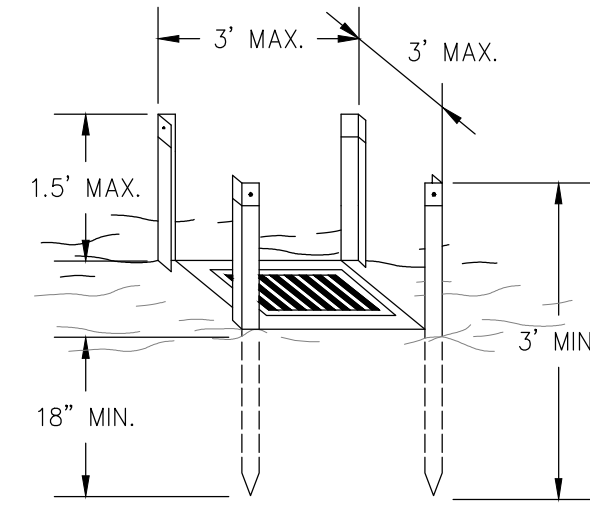
Project No. 21-266
 Drawn By: JAF
 Designed By: DMB
 Checked By: JJB
 Scale: 1"=20'
 Date: 9/17/21

SHEET
EC1.1

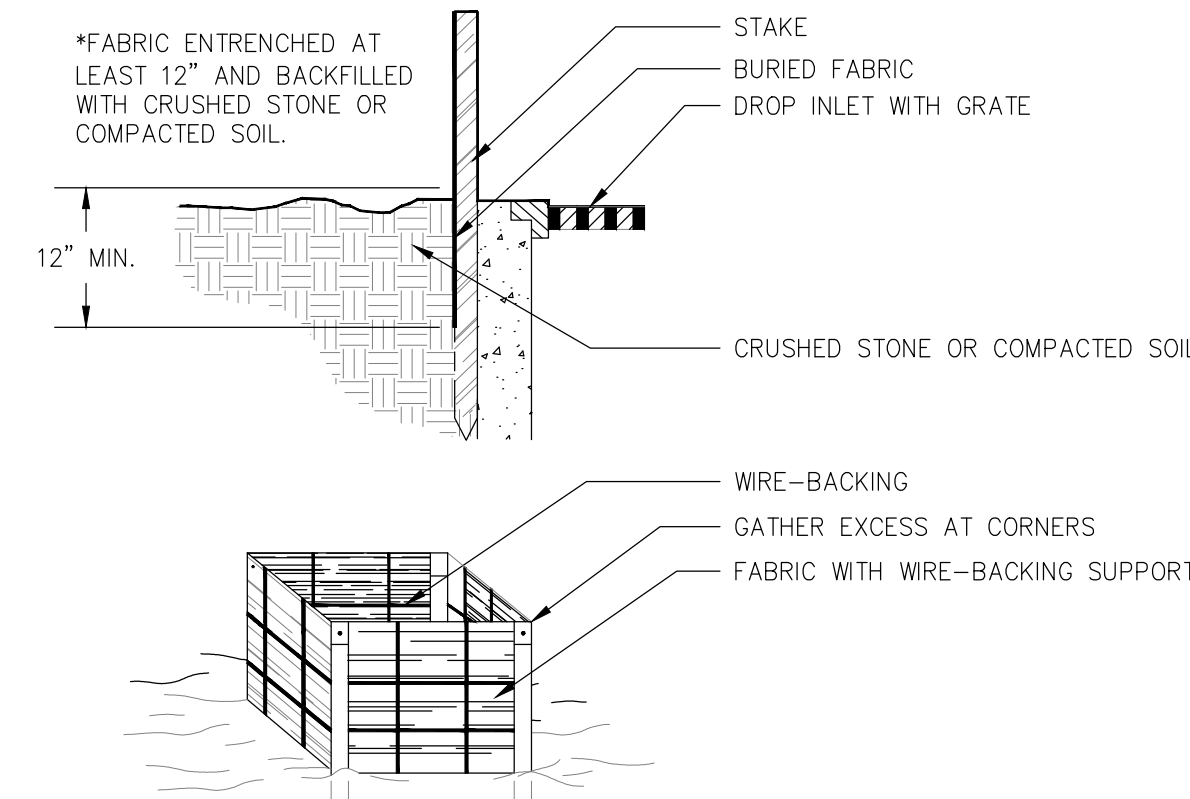
FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION

Sd2-F

STEEL FRAME AND SILT FENCE INSTALLATION

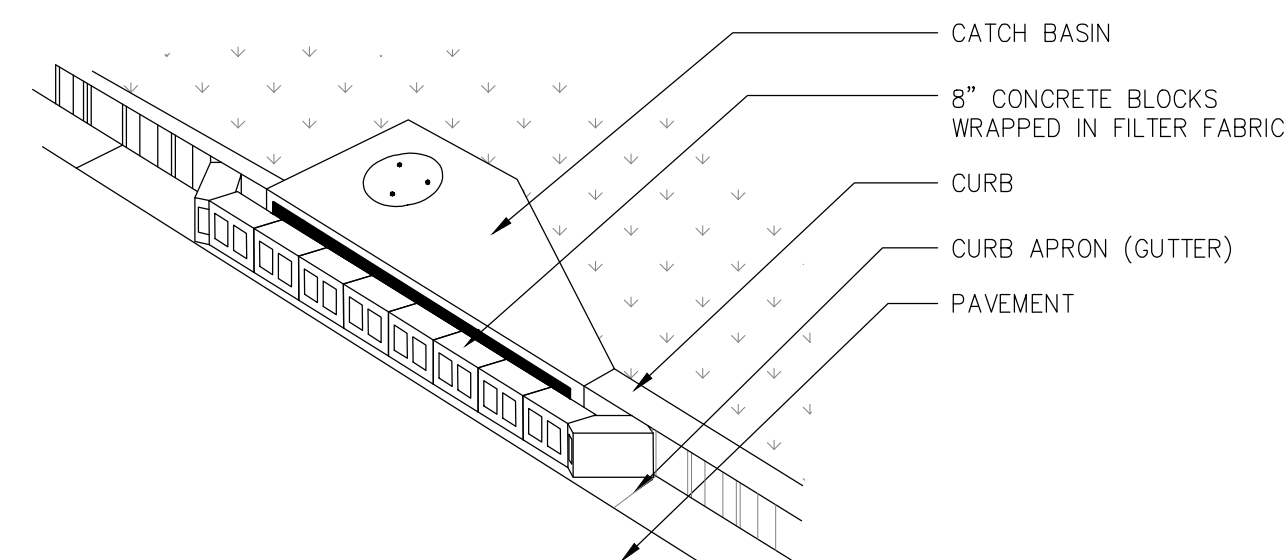
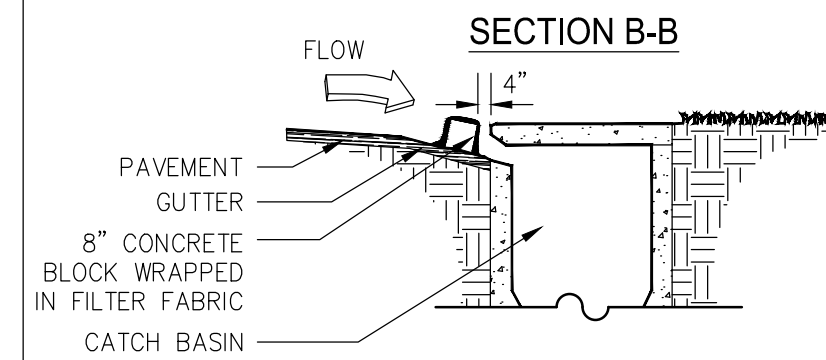
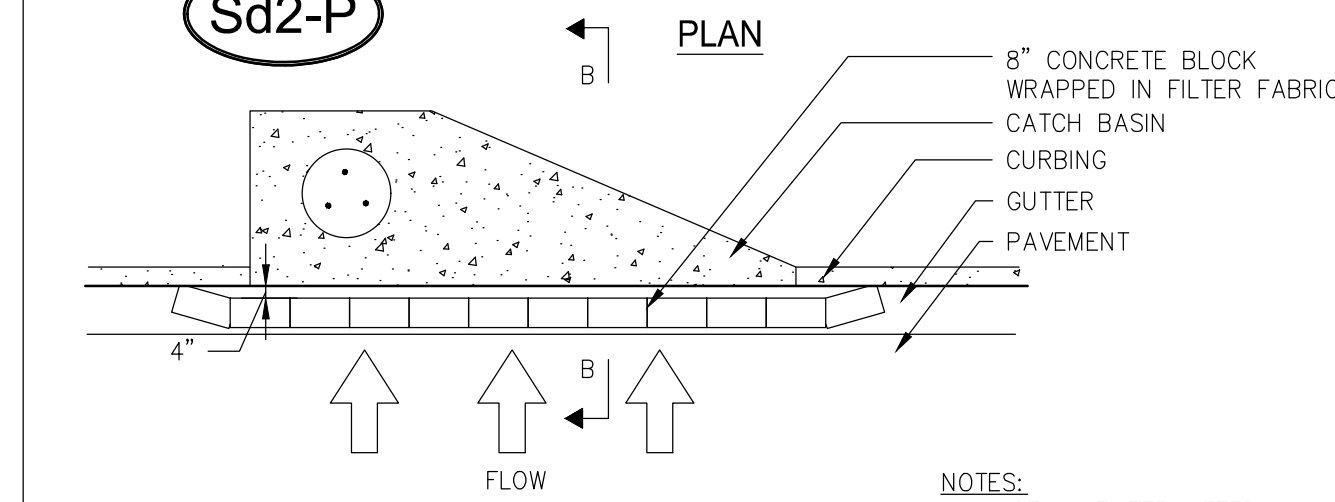


- NOTES:**
- DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
 - THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART).
 - THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
 - THE FABRIC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



CURB INLET FILTER "PIGS IN BLANKET"

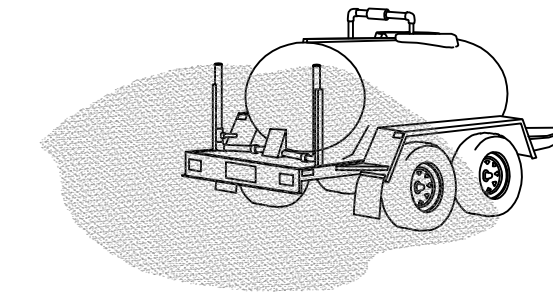
Sd2-P



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

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 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 specifications 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, snow fences, burlap fences, crate walls, bales of hay and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 15 times their height are effective in controlling wind erosion.
Calcium Chloride. Apply at rate that will keep surface moist. May need retreatment.

B. PERMANENT METHODS
Permanent Vegetation. See specification Ds3 - Disturbed Area Stabilization (With Permanent Vegetation). Existing trees and large shrubs may afford valuable protection if left in place.
Topsoiling. This entails covering the surface with less erosive soil material. See specification Tp - Topsoiling.
Stone. Cover surface with crushed stone or coarse gravel. See specification Cr - Construction Road Stabilization.

Ds3

DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

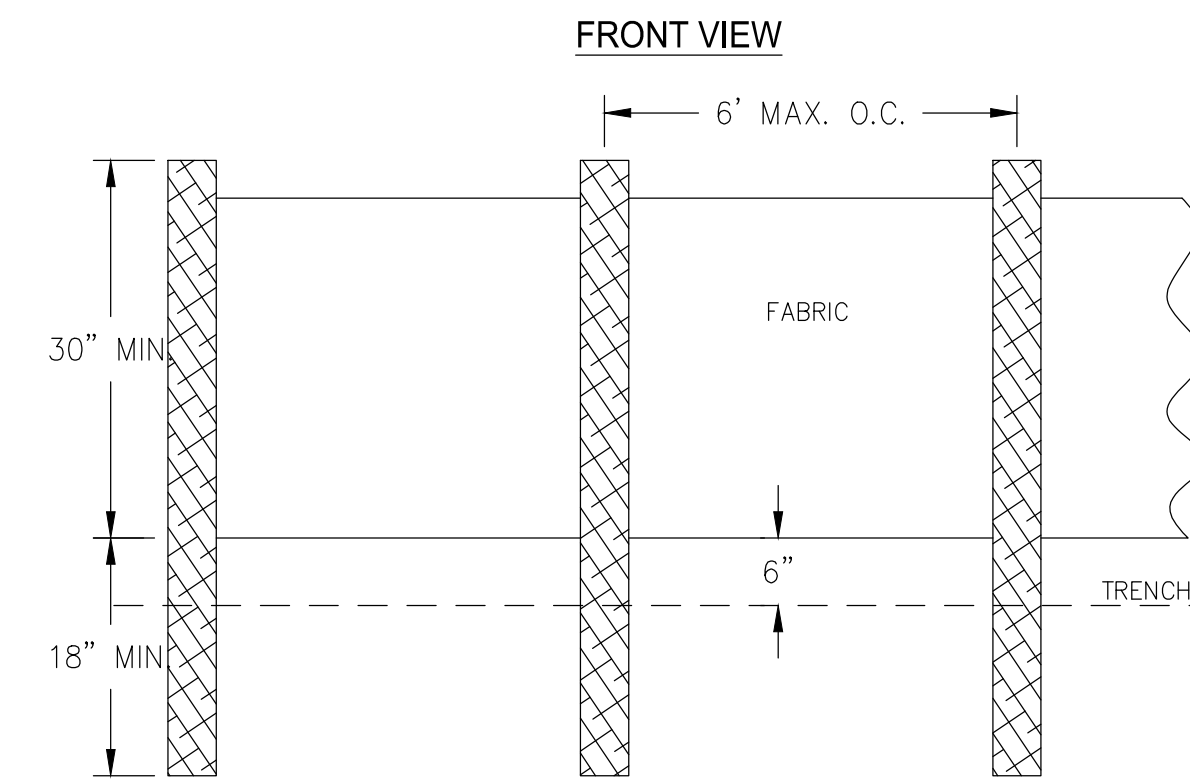
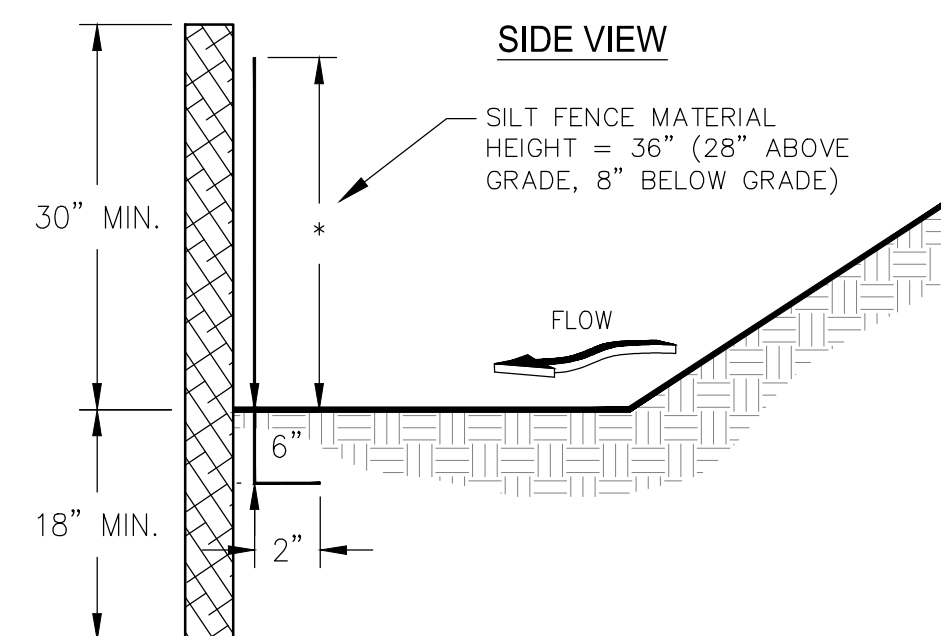
PLANTS, PLANTING RATES, AND PLANTING DATES FOR PERMANENT COVER

Species	Broadcast Rates 2-/PLS3/ Per Acre	Per 1000 sq. ft.	Area	Resource Planting Dates by Resource Area												Remarks	
				J	F	M	A	M	J	J	A	S	O	N	D		
BERMUDA, COMMON (Cynodon dactylon) Hulled seed alone with other perennials	10 lbs.	0.2 lb.	P C														1,787,000 seed per pound. Quick cover. Low growing and sod forming. Full sun. Good for athletic fields.
	6 lbs.	0.1 lb.															
BERMUDA, COMMON (Cynodon dactylon) Unhulled seed with temporary cover with other perennials	10 lbs.	0.2 lb.	P C														Plant with winter annuals. Plant with Tall fescue.
	6 lbs.	0.1 lb.															
BERMUDA SPRIGS (Cynodon dactylon) Coastal, Common, Midland, or Tift 44 Coastal, Common, or Tift 44	40 cu. ft.	0.9 cu. ft. or sod pulps 3'x 3'	M-L P C C														A cubic foot contains approximately 650 sprigs. A bushel contains 1.25 cubic feet or approximately 800 sprigs. Same as above Southern coastal Plain only.
	Tift 78																
CENTIPEDE (Eremochloa ophiuroides)	Block sod only		P C														Drought tolerant. Full sun or partial shade. Effective adjacent to concrete and in concentrated flow areas. Irrigation is needed until fully established. Do not plant near pastures. Winterhardy as far north as Athens and Atlanta.
LOVEGRASS, WEEPING (Eragrostis curvula) alone in mixtures	4 lbs.	0.1 lb.	M-L P C														1,500,000 Seed per pound. May last for several years. Mix with Setaria lepedeza.
	2 lbs.	0.05 lb.															

- Reduce seeding rates by 50% when drilled.
- PLS is an abbreviation for Pure Live Seed. Refer to Section V.E. of these specification.
- M-L represents the Mountain, Blue Ridge, and Ridges and Valleys MLRAs
P represents the Southern Piedmont MLRA; C represents Southern Coastal Plain; Sand Hills; Black Lands; and Atlantic Coast

SILT FENCE - TYPE NON-SENSITIVE

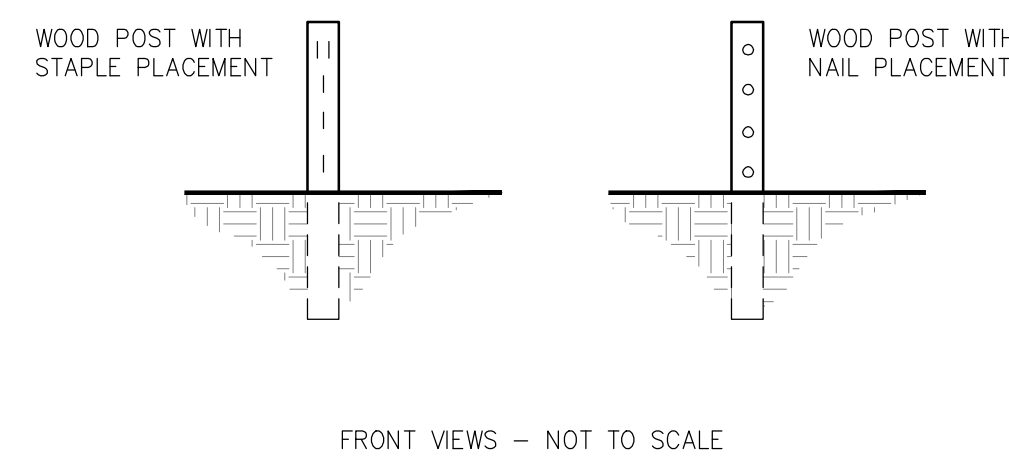
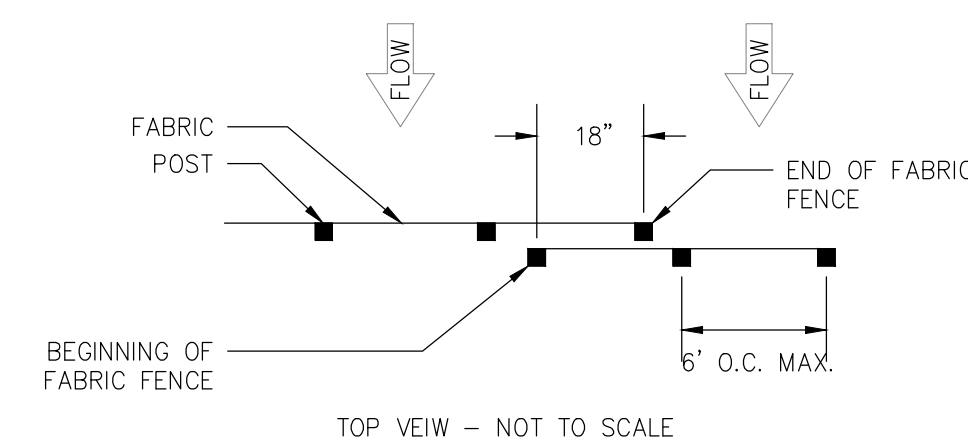
Sd1-NS



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

FASTENERS FOR SILT FENCES

OVERLAP AT FABRIC ENDS

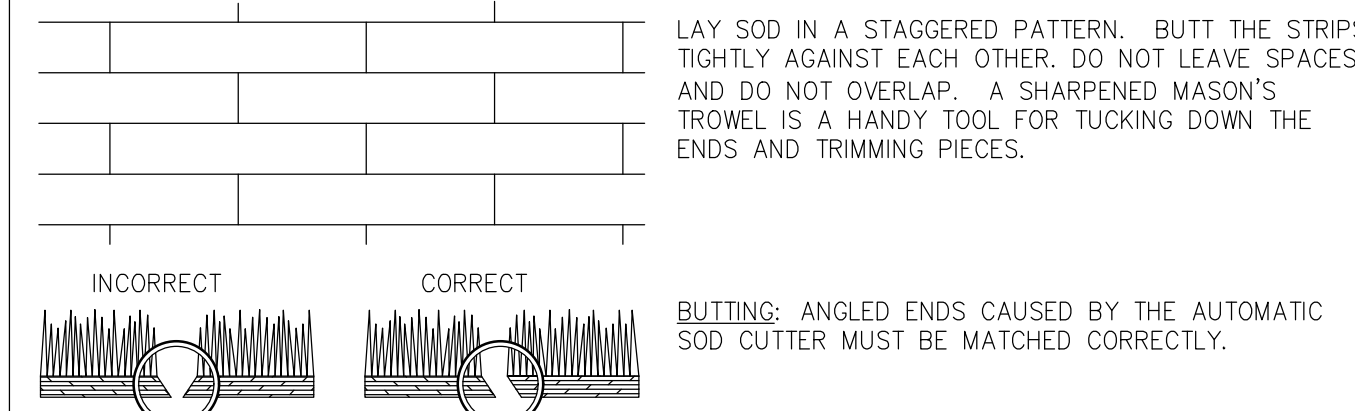


- NOTES:**
- THE FABRIC AND WIRE SHOULD BE SECURELY FASTENED TO POSTS AND FABRIC ENDS MUST BE OVERLAPPED A MINIMUM OF 18" OR WRAPPED TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS FABRIC BARRIER AROUND THE INLET.

Ds4

SOD MAINTENANCE AND INSTALLATION

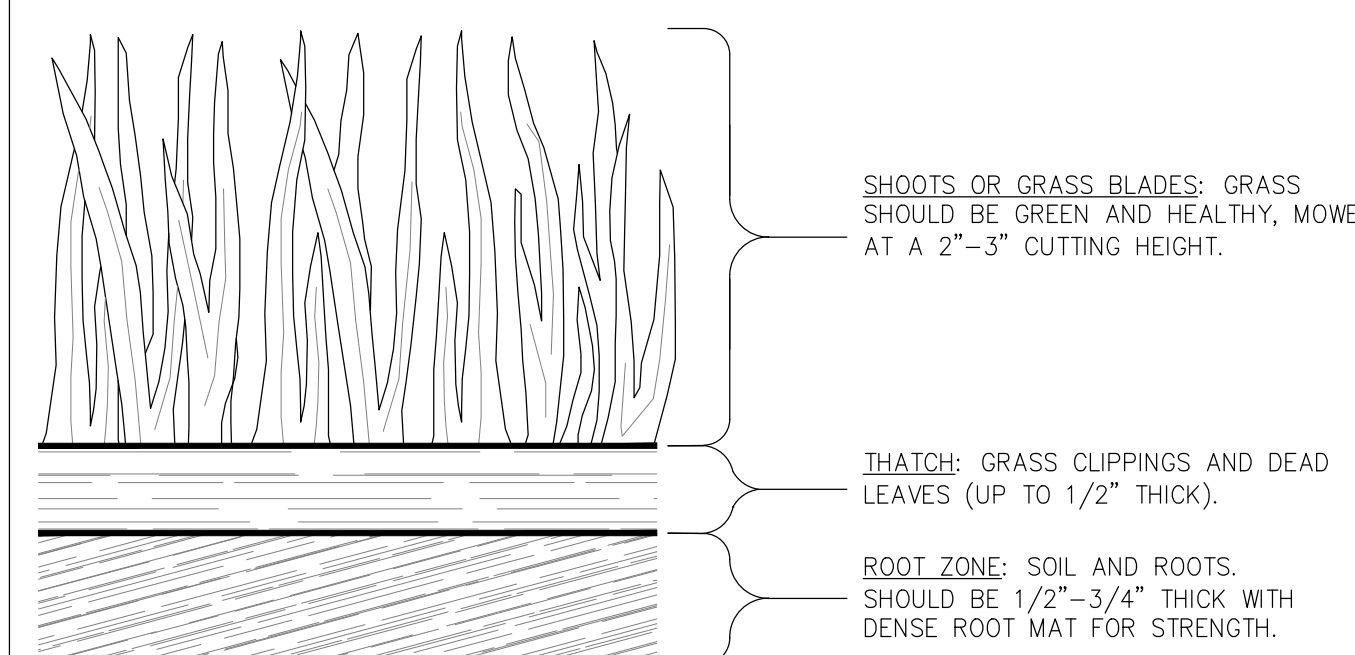
SOD LAYOUT AND PREPARATION



DIRECTIONS FOR INITIAL MAINTENANCE

- ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL
- WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAID.
- MOW WHEN THE SOD IS ESTABLISHED -- IN 2-3 WEEKS. SET THE MOWER HIGH (2"-3").

APPEARANCE OF GOOD SOD



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