

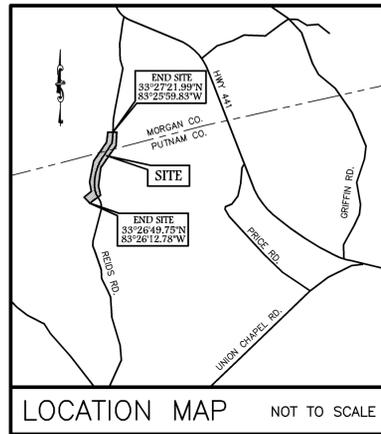
REIDS ROAD

ROAD IMPROVEMENT PLAN

LAND LOTS 94, 95 & 81 - 4th DISTRICT
PUTNAM COUNTY, GEORGIA

- EROSION CONTROL NOTES**
- EROSION CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
 - EARTH DISTURBING ACTIVITIES SHALL BE KEPT AT A MINIMUM. SEDIMENT PONDS, AND FILL SLOPES WHERE CONSTRUCTION ACTIVITY WILL NOT BE ON GOING; SHALL BE GRASSED AS SOON AS GRADING OF AREAS IS COMPLETED.
 - ANY ADDITIONAL EROSION CONTROL DEVICES NECESSARY TO PROHIBIT SEDIMENT FROM LEAVING THE SITE SHALL BE PROVIDED AS DIRECTED BY THE ENGINEER AND/OR LOCAL INSPECTOR.
 - EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
 - SEDIMENT BARRIERS, TRAPS, AND PONDS SHALL BE INSPECTED AND MAINTAINED AS OFTEN AS NECESSARY SUCH THAT ALL DEVICES ARE FUNCTIONING PROPERLY. ANYTIME THAT USEFUL VOLUMES ARE FILLED TO 22 CY/ACRE OR 1/3 CAPACITY, INSTALL STAKE INDICATING THIS LEVEL. DEVICES SHALL BE CLEANED OF SEDIMENT AND RETURNED TO ORIGINAL USEFUL VOLUME. SILT BARRIERS, CONSTRUCTION EXITS, CHECK DAMS SHALL BE REPLACED, ADDED TO OR OTHERWISE MAINTAINED TO INSURE PROPER FUNCTION.
 - FREQUENT INSPECTIONS, MAINTENANCE AND/OR REPAIR OF EROSION AND SEDIMENT CONTROL PRACTICES INCLUDING PROPER VEGETATION COVER SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND/OR PROPERTY OWNER.
 - CONSTRUCTION EXITS SHALL BE MAINTAINED AT ALL TIMES, AND ANY MUD TRACKED ONTO STREETS SHALL BE CLEANED IMMEDIATELY.
 - AREAS SHALL BE FLOWED TO A DEPTH OF 4 INCHES OR MORE FOR SHOULDERS AND FILL SLOPES AND 6 INCHES OR MORE FOR CUT SLOPES. AREAS SHALL BE CLEANED, HARROWED UNTIL WELL PULVERIZED FOR A SMOOTH, UNIFORM, WELL BROKEN SOIL. LIME AND FERTILIZER SHALL BE THOROUGHLY MIXED IN THE TOP 4 INCHES OF PREVIOUSLY LOOSE SOIL AND SOIL RETURNED TO A SMOOTH UNIFORM CONDITION. AFTER PLANTING AREAS TO BE MULCHED WITH HAY OR STRAW OF APPROVED GRASSES OR GRASS CROPS.
 - EROSION CONTROL DEVICES SHALL INCLUDE BUT NOT BE LIMITED TO: CONSTRUCTION EXIT AS DETAILED; STORM DRAIN INLET & OUTLET PROTECTION; SILT BARRIERS AT TOE OF FILL SLOPES.
 - ALL DRAINAGE EASEMENTS & DETENTION PONDS SHALL BE STABILIZED UPON COMPLETION.
 - THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY INSTALLATION OF EROSION 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.
 - MUST PROVIDE A 50 FOOT NATURAL UNDISTURBED STREAM BUFFER ADJACENT TO THE BANKS OF ALL CREEKS, STREAMS, LAKES, PONDS, AND SPRINGS MEASURED FROM THE STREAM BANKS.
 - A 25' TRIBUTARY BUFFER WILL BE MAINTAINED FROM THE BANKS ON ALL STATE WATERS THAT ARE NOT CONVEYED BY APPROVED DRAINAGE STRUCTURES.
 - CUT AND FILL SLOPES NOT EXCEED 2H:1V.
 - LENGTH OF RIP-RAP AREA SHALL BE SIX TIMES THE DIAMETER OF THE STORM DRAIN AND WIDTH SHALL BE THREE TIMES THE DIAMETER OF THE STORM DRAIN. THIS IS MINIMUM AND CAN INCREASE.
 - GRADING OPERATIONS OR OTHER SOIL DISTURBING ACTIVITIES THAT ARE SUSPENDED FOR MORE THAN SEVEN (7) CALENDAR DAYS SHALL HAVE TEMPORARY VEGETATION, MULCHING, SILT FENCE, AND/OR OTHER EROSION CONTROL MEASURES, AT THE DISCRETION OF PUTNAM COUNTY, EMPLOYED TO PROTECT THE SOIL FROM EROSION ELEMENTS.
 - GRADING OPERATIONS OR OTHER SOIL DISTURBING ACTIVITIES THAT ARE ABANDONED OR WITHOUT ACTIVITY FOR THIRTY (30) CALENDAR DAYS SHALL HAVE PERMANENT GRASSING, SILT FENCE AND/OR OTHER EROSION CONTROL MEASURES EMPLOYED TO PROTECT THE AREA. IF THE SITE INCLUDES PROPOSED ROADBEDS, IT SHALL BE REGRADED TO REMOVE ANY GRASS, WEED OR OTHER PERISHABLE MATTER PRIOR TO FINAL ACCEPTANCE OF SUBGRADE.
 - LENGTH OF RIP-RAP AREA SHALL BE DESIGNED PER MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION.

ITEM NUMBER	UNITS	DESCRIPTION
ROADWAY ITEMS		
150-1000	LS 1	TRAFFIC CONTROL
151-1000	LS 1	MOBILIZATION
201-1500	LS 1	CLEARING AND GRUBBING
210-0100	LS 1	GRADING COMPLETE
610-6515	EA 2	REM HIGHWAY SIGN, STD
636-1028	EA 5	HIGHWAYS SIGNS, TP2 MATL, REFL SHEETING, TP3
636-2010	EA 5	GALV STEEL POSTS, TP1
653-1501	LF 7315	THERMOPLASTIC SOLID TRAF STRIPE, 5IN, WHITE
653-1502	LF 7402	THERMOPLASTIC SOLID TRAF STRIPE, 5IN, YELLOW
653-1704	LF 38	THERMOPLASTIC SOLID TRAF STRIPE, 24IN, WHITE
653-2810	LF 420	THERMOPLASTIC SOLID TRAF STRIPE, 10IN, WHITE
PAVEMENT		
402-3102	TN 895	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, TYPE II, BLEND 1
402-3141	TN 1193	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 1 OR 2
402-3190	TN 1790	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2
413-1000	GL 2700	BITUM TACK COAT
310-5040	SY 5750	GR AGGR BASE CRS, 4 INCH, INCL MATL
310-5060	SY 4980	GR AGGR BASE CRS, 6 INCH, INCL MATL
DRAINAGE		
550-1240	LF 95	STORM DRAIN PIPE, 24 IN, H 1-10 (RCP)
550-3324	EA 4	SAFETY END SECTION 24 IN, STORM DRAIN, 4:1 SLOPE
610-1880	LF 71	REM STORM DRAIN PIPE
EROSION CONTROL		
162-1300	EA 8	EROSION CONTROL CHECK DAM
183-0232	AC 2.55	TEMPORARY GRASSING
165-0030	LF 560	MAINTENANCE OF TEMPORARY SILT FENCE
171-0010	LF 560	TEMPORARY SILT FENCE, TYPE A
603-1018	SY 150	STN FLIN RIP RAP, 18IN
700-6910	AC 2.55	PERMANENT GRASSING
700-7000	TN 1.9	AGRICULTURAL LIME (3000 LBS/AC)
700-8000	TN 1.9	FERTILIZER MIXED GRADE (1500 LBS/AC)
700-8100	LB 250	FERTILIZER NITROGEN CONTENT (100 LBS/AC)
MISC.		
	EA 1	POWER POLE RELOCATION
	EA 1	SIGN RELOCATION



DATE: AUGUST 26, 2014

NO.	DATE	REVISION	BY
1	11/4/14	PER PROJECT MANAGER	NR

OWNER:
PUTNAM COUNTY BOARD OF COMMISSIONERS
C/O PAUL VAN HAUTE, COUNTY MANAGER
117 PUTNAM DRIVE, SUITE "A"
EATONTON, GA 31024
PH: 706-485-5826

PROJECT MANAGER:
COLLABORATIVE INFRASTRUCTURE SERVICES, INC.
945 BANK ST. NE
CONYERS, GA 30012
PHONE: 404-909-5616
CONTACT: LAWRENCE K. KAISER, P.E.

ENGINEER/SURVEYOR:
PATRICK & ASSOCIATES, INC.
928 BLACKLAWN ROAD SW
CONYERS, GA 30094
PHONE: 770-483-9745
CONTACT: MARK WALTON, P.E.

24 HOUR CONTACT:
LAWRENCE K. KAISER, P.E.
PHONE: 404-909-5616

GENERAL NOTES:

- *TOTAL AREA: 4.66 ACRES
- *EXISTING USE: PUBLIC GRAVEL ROAD
- *PROPOSED USE: PUBLIC PAVED ROAD
- *THERE ARE NO STATE WATERS ON OR WITHIN 200 FEET OF THIS PROJECT.
- *THIS PROPERTY IS NOT LOCATED WITHIN 200' OF A WETLAND AND/OR STATE WATERS AREA.
- *THIS PROPERTY IS NOT LOCATED IN A FEDERAL FLOOD AREA AS INDICATED BY F.I.A. OFFICIAL HAZARD MAP PANEL NO. 13237C0050C, DATED SEPTEMBER 2008.
- *GROUND TOPOGRAPHICAL SURVEY BY PATRICK & ASSOCIATES DATED 7/23/14
- *HOR. DATUM: NAD 83
- *VERT. DATUM: NAVD 88
- *BID DOCUMENTS AND TECHNICAL SPECIFICATIONS WILL ACCOMPANY THESE PLANS.

UTILITY NOTE:
PATRICK & ASSOCIATES, INC. NOR THE LICENSED PROFESSIONAL ASSUME ANY LIABILITY FOR THE EXISTENCE, LOCATION, MATERIAL OR SIZE OF ANY UNDERGROUND UTILITY SHOWN ON THIS SURVEY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, EXACT LOCATION, MATERIAL AND SIZE OF ANY UNDERGROUND UTILITY BEFORE BIDDING OR EXCAVATING ON THIS PROJECT. PATRICK & ASSOCIATES, INC. IS NOT RESPONSIBLE FOR OBTAINING ANY OFFSITE EASEMENTS.

AT&T
Phillip Guy
114 E. Marion Street
Eatonton, GA 31024
pg1788@att.com

Central GA EMC
David Pinholster
923 S Mulberry St.
Jackson, GA 30233
770-504-7863 (Office)
404-502-3877 (Cell)
770-775-1714 (Fax)
dpinholster@cgemc.com

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BOARD OF COMMISSIONERS
Stephen J. Hersey – Chairman
Frederick Ward – Commissioner, District 1
Janie B. Reid – Commissioner, District 2
Alan Foster – Commissioner, District 3
Billy Webster – Commissioner, District 4

DISTURBED AREA = 4.66 AC

NOTE: THE ROAD MUST REMAIN OPEN TO 2-WAY TRAFFIC WHEN THE CONTRACTOR IS NOT ON SITE. DURING CONSTRUCTION, THE ROAD IS TO REMAIN OPEN TO 1-WAY TRAFFIC WITH FLAGMEN.



If You Dig Georgia...Call Us First!
1-800-282-7411
UTILITY LOCATION & COORDINATION COUNCIL
UNIFORM COLOR CODE
WHITE- PROPOSED EXCAVATION
PINK- TEMPORARY SURVEY MARKINGS
RED- ELECTRIC POWER LINES, CABLES, CONDUIT AND LIGHTING CABLES
YELLOW- GAS, OIL, STEAM, PETROLEUM OR GASOLINE MATERIALS
ORANGE- COMMUNICATION, ALARM OR SIGNAL LINES, CABLES OR CONDUIT
BLUE- POTABLE WATER
PURPLE- RECLAIMED WATER, IRRIGATION AND SLURRY LINES
GREEN- SEWERS AND DRAIN LINES



Know what's below
Call before you dig

CONSTRUCTION PLANS

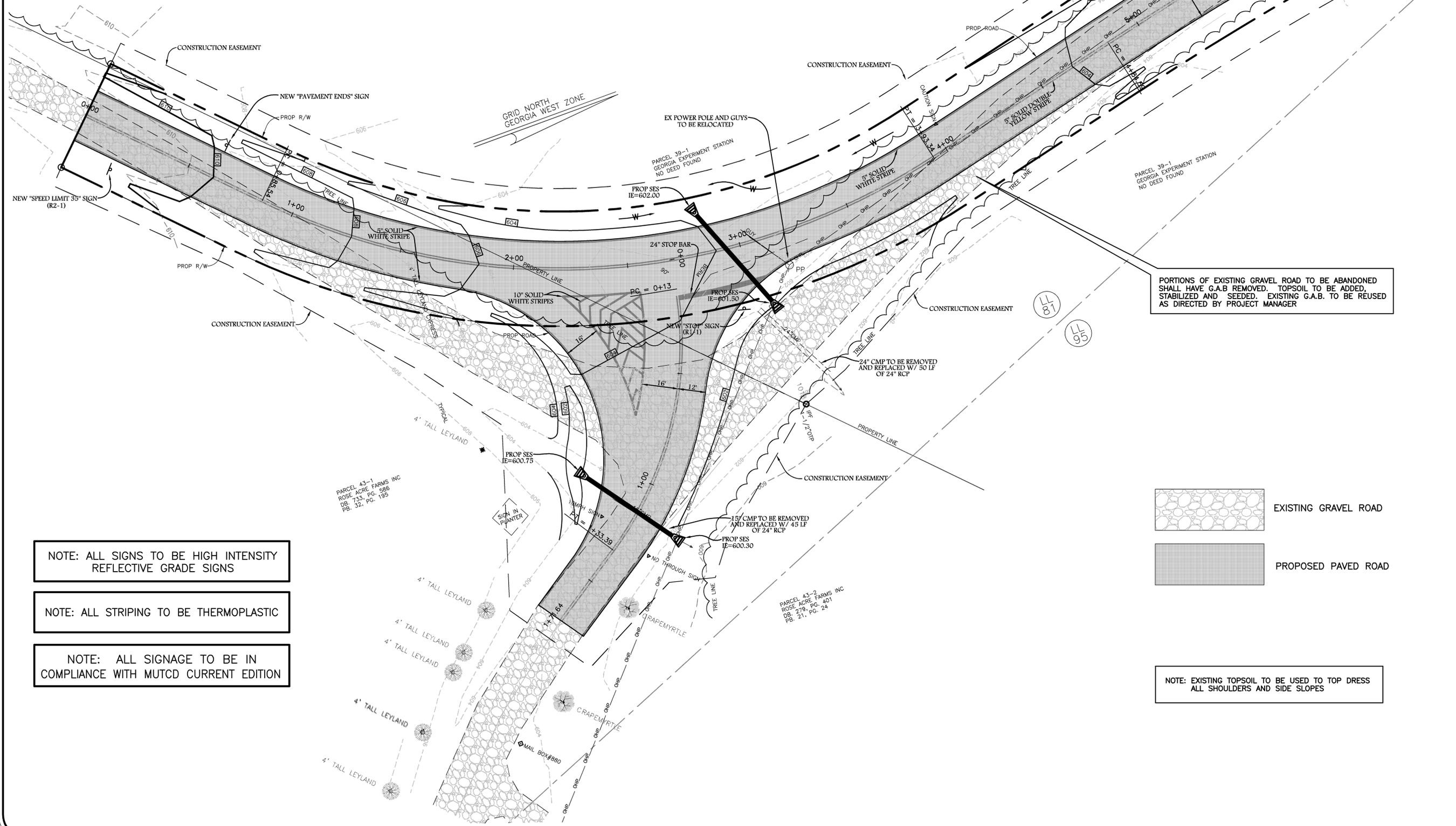
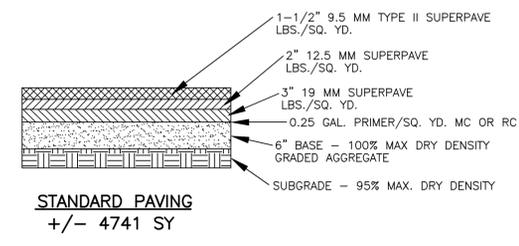
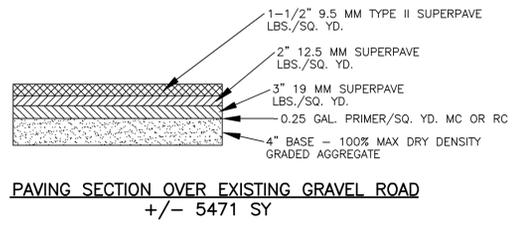
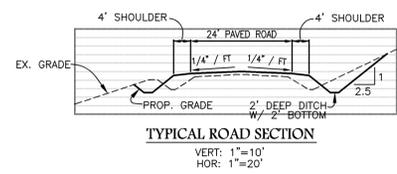


SURVEYING & ENGINEERING
928 BLACKLAWN ROAD
CONYERS, GEORGIA 30094
PHONE: (770) 483-9745
FAX: (770) 483-9219

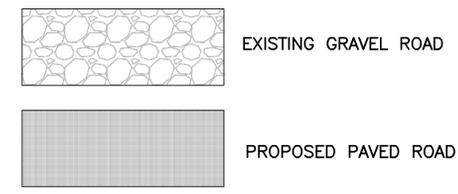


GSWCC #2494
CERTIFIED DESIGN PROF.
EXP. 11/16/2014

JOB# 14-192
DWG# 29494E



PORTIONS OF EXISTING GRAVEL ROAD TO BE ABANDONED SHALL HAVE G.A.B. REMOVED. TOPSOIL TO BE ADDED, STABILIZED AND SEEDED. EXISTING G.A.B. TO BE REUSED AS DIRECTED BY PROJECT MANAGER



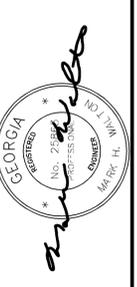
NOTE: EXISTING TOPSOIL TO BE USED TO TOP DRESS ALL SHOULDERS AND SIDE SLOPES

NOTE: ALL SIGNS TO BE HIGH INTENSITY REFLECTIVE GRADE SIGNS

NOTE: ALL STRIPING TO BE THERMOPLASTIC

NOTE: ALL SIGNAGE TO BE IN COMPLIANCE WITH MUTCD CURRENT EDITION

SURVEYING & ENGINEERING
 578 BLACKLAWN ROAD
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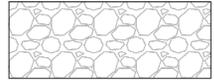
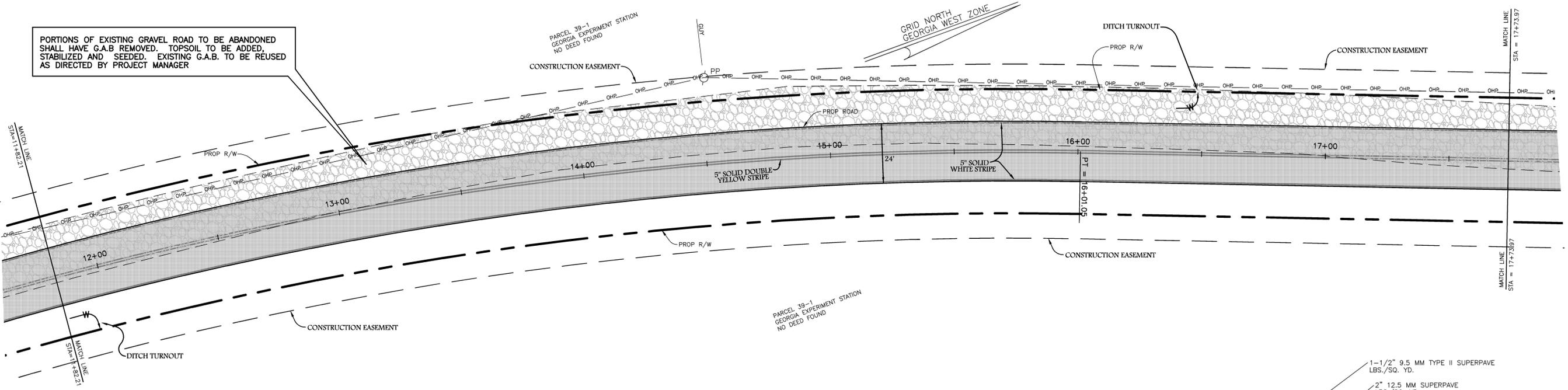
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DRAWN BY: MR	CHECKED BY: MW
DATE: 8/28/14	SCALE: 1"=20'

NO.	DATE	REVISION	BY
1	11/14/14	PER PROJECT MANAGER	MW

REDS ROAD PLAN FOR:
PUTNAM COUNTY BOARD OF COMMISSIONERS
 LAND LOTS 94, 95 & 81
 4th LAND DISTRICT
PUTNAM COUNTY, GEORGIA

DRAWING NUMBER 29494	
SHEET: 1	OF: 18

PORTIONS OF EXISTING GRAVEL ROAD TO BE ABANDONED SHALL HAVE G.A.B REMOVED. TOPSOIL TO BE ADDED, STABILIZED AND SEEDDED. EXISTING G.A.B. TO BE REUSED AS DIRECTED BY PROJECT MANAGER



EXISTING GRAVEL ROAD



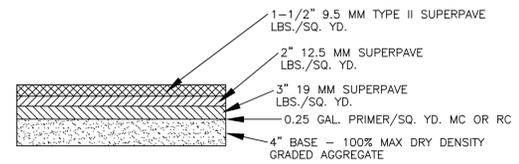
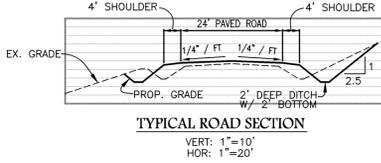
PROPOSED PAVED ROAD

NOTE: ALL SIGNS TO BE HIGH INTENSITY REFLECTIVE GRADE SIGNS

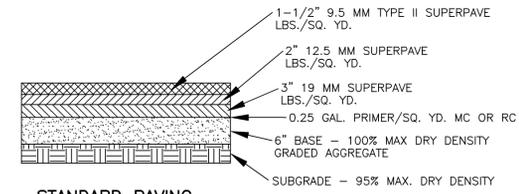
NOTE: ALL STRIPING TO BE THERMOPLASTIC

NOTE: ALL SIGNAGE TO BE IN COMPLIANCE WITH MUTCD CURRENT EDITION

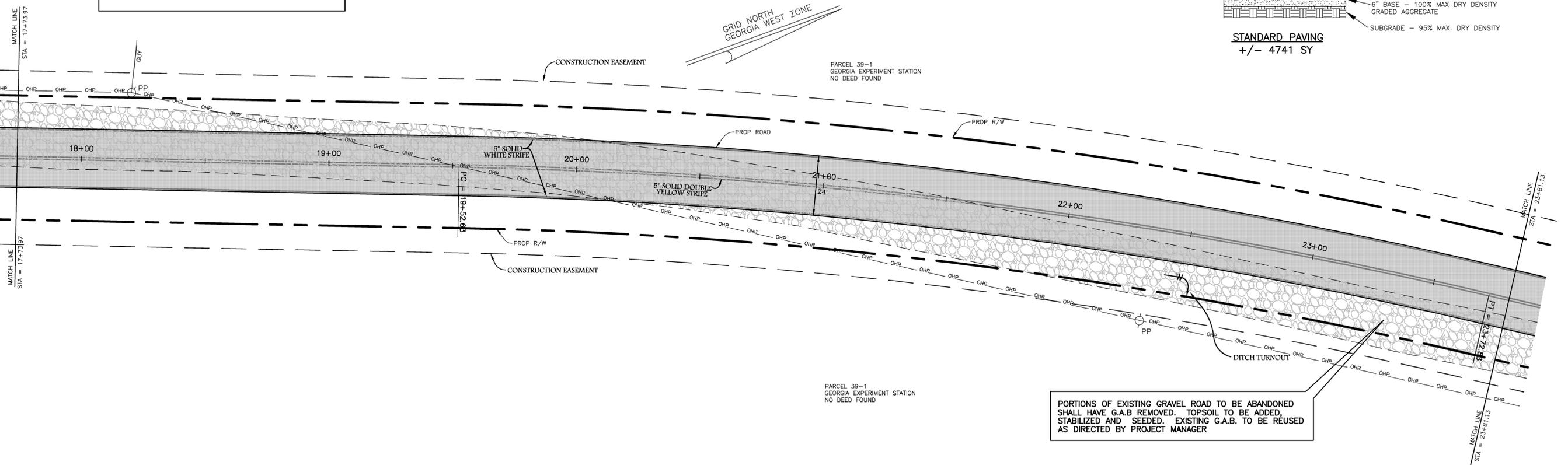
NOTE: EXISTING TOPSOIL TO BE USED TO TOP DRESS ALL SHOULDERS AND SIDE SLOPES



PAVING SECTION OVER EXISTING GRAVEL ROAD +/- 5471 SY



STANDARD PAVING +/- 4741 SY



PORTIONS OF EXISTING GRAVEL ROAD TO BE ABANDONED SHALL HAVE G.A.B REMOVED. TOPSOIL TO BE ADDED, STABILIZED AND SEEDDED. EXISTING G.A.B. TO BE REUSED AS DIRECTED BY PROJECT MANAGER

SURVEYING & ENGINEERING
528 BLACKLAWN ROAD
CONOVERS, GEORGIA 30094
PHONE: (770) 485-9745
FAX: (770) 483-9289



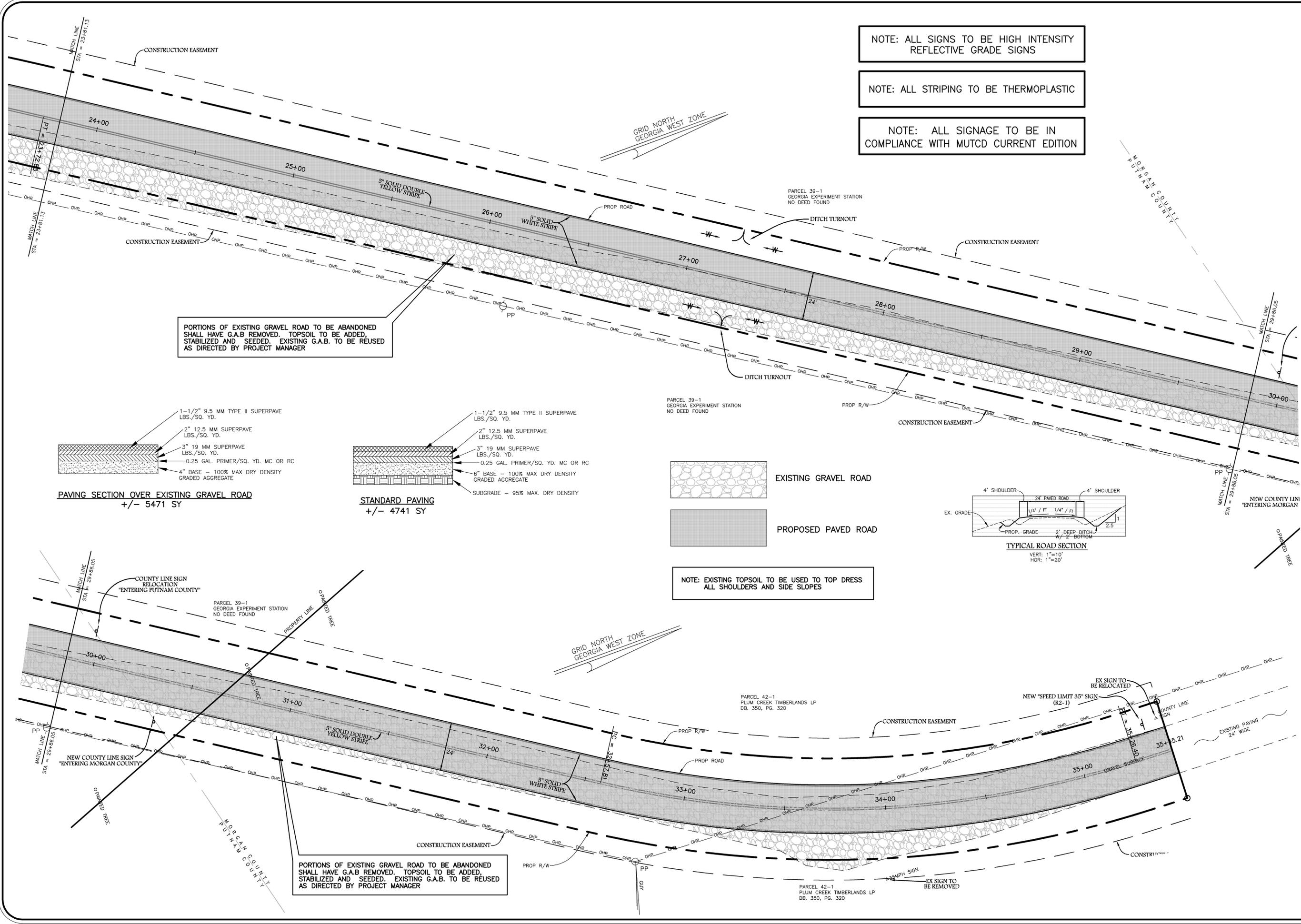
Georgia Professional Engineer Seal for Matthew A. Patrick, No. 21588, State of Georgia, Exp. 12/31/2016.

JOB NO. 14-192	COMPUTED NO.	BY	DATE
	117/14/14	MR	11/14/14
DRAWN BY: NR	CHECKED BY: MW	REVISION	NO.
DATE: 9/28/14	SCALE: 1"=20'	PER PROJECT MANAGER	

REVISION	NO.	DATE

REIDS ROAD PLAN FOR:
PUTNAM COUNTY BOARD OF COMMISSIONERS
LAND LOTS 94, 95 & 81
4th LAND DISTRICT
PUTNAM COUNTY, GEORGIA

DRAWING NUMBER	29494
SHEET	3
OF	18

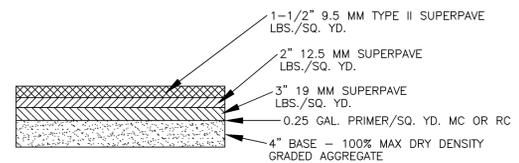


NOTE: ALL SIGNS TO BE HIGH INTENSITY REFLECTIVE GRADE SIGNS

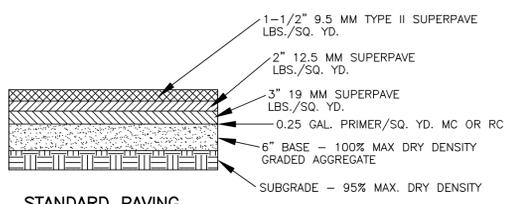
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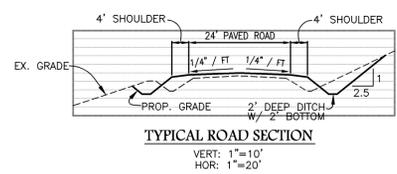
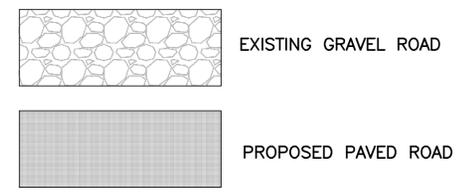
PORTIONS OF EXISTING GRAVEL ROAD TO BE ABANDONED SHALL HAVE G.A.B REMOVED. TOPSOIL TO BE ADDED, STABILIZED AND SEEDED. EXISTING G.A.B. TO BE REUSED AS DIRECTED BY PROJECT MANAGER



PAVING SECTION OVER EXISTING GRAVEL ROAD +/- 5471 SY



STANDARD PAVING +/- 4741 SY

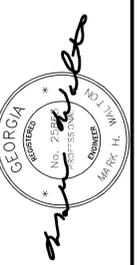


TYPICAL ROAD SECTION
VERT: 1"=10'
HOR: 1"=20'

NOTE: EXISTING TOPSOIL TO BE USED TO TOP DRESS ALL SHOULDERS AND SIDE SLOPES

PORTIONS OF EXISTING GRAVEL ROAD TO BE ABANDONED SHALL HAVE G.A.B REMOVED. TOPSOIL TO BE ADDED, STABILIZED AND SEEDED. EXISTING G.A.B. TO BE REUSED AS DIRECTED BY PROJECT MANAGER

SURVEYING & ENGINEERING
578 BLACKLAWN ROAD
CONYERS, GEORGIA 30094
PHONE: (770) 483-9745
FAX: (770) 483-9229



JOB NO. 14-192	COMPUTED BY: JWR
DRAWN BY: NR	CHECKED BY: MW
DATE: 8/28/14	SCALE: 1"=20'

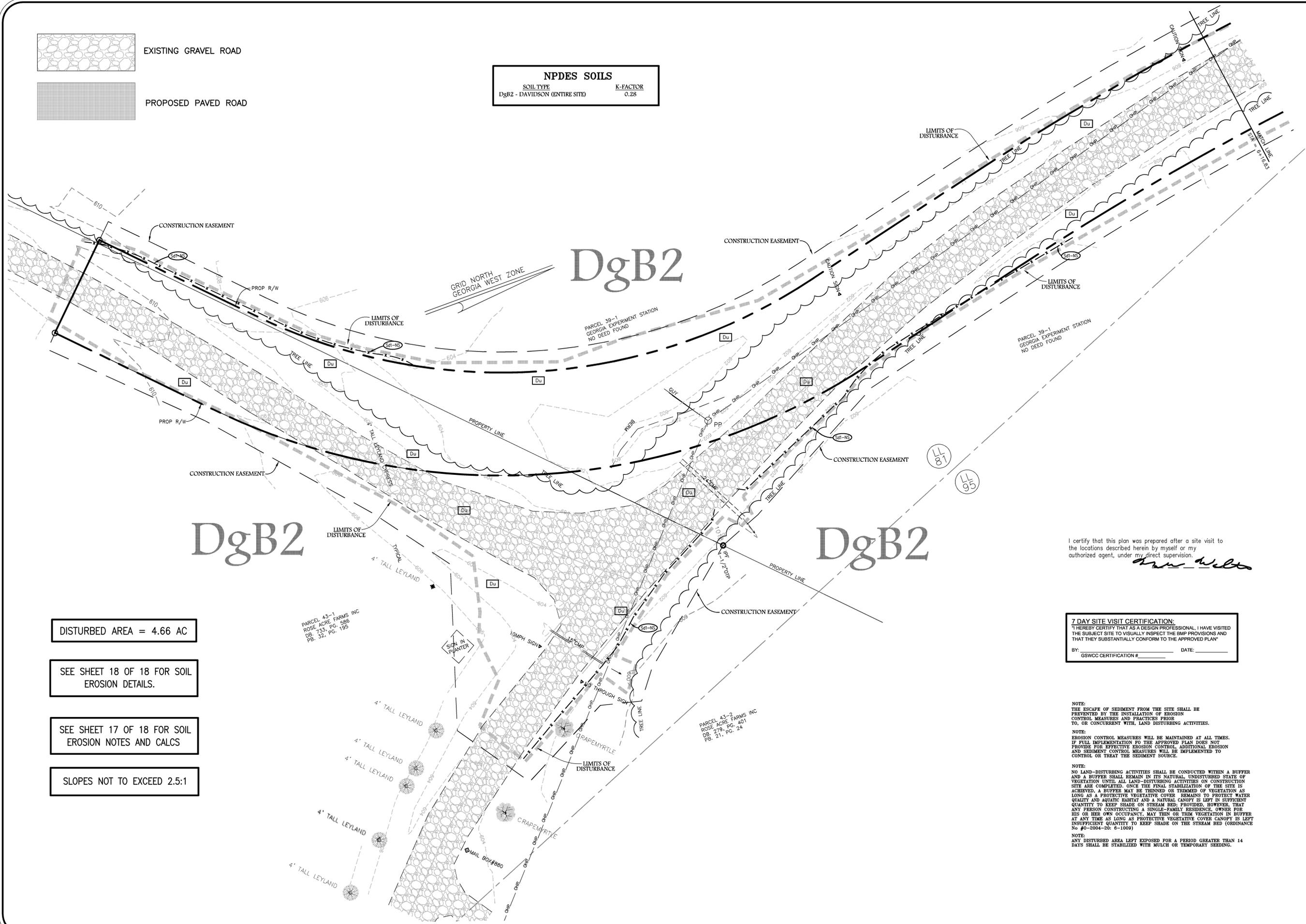
NO.	DATE	REVISION
1	11/14/14	PER PROJECT MANAGER

REIDS ROAD PLAN FOR:
PUTNAM COUNTY BOARD OF COMMISSIONERS
LAND LOTS 94, 95 & 81
4th LAND DISTRICT
PUTNAM COUNTY, GEORGIA

DRAWING NUMBER 29494
SHEET: 4 OF: 18

EXISTING GRAVEL ROAD
 PROPOSED PAVED ROAD

NPDES SOILS
 SOIL TYPE: DgB2 - DAVIDSON (ENTIRE SITE)
 K-FACTOR: 0.28



DISTURBED AREA = 4.66 AC

SEE SHEET 18 OF 18 FOR SOIL EROSION DETAILS.

SEE SHEET 17 OF 18 FOR SOIL EROSION NOTES AND CALCS

SLOPES NOT TO EXCEED 2.5:1

7 DAY SITE VISIT CERTIFICATION:
 I HEREBY CERTIFY THAT AS A DESIGN PROFESSIONAL, I HAVE VISITED THE SUBJECT SITE TO VISUALLY INSPECT THE BMP PROVISIONS AND THAT THEY SUBSTANTIALLY CONFORM TO THE APPROVED PLAN.
 BY: _____ DATE: _____
 GSWCC CERTIFICATION # _____

NOTE:
 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.
NOTE:
 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 WILL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
NOTE:
 NO LAND-DISTURBING ACTIVITIES SHALL BE CONDUCTED WITHIN A BUFFER AND A BUFFER SHALL REMAIN IN ITS NATURAL, UNDISTURBED STATE OF VEGETATION UNTIL ALL LAND-DISTURBING ACTIVITIES ON CONSTRUCTION SITE ARE COMPLETED. ONCE THE FINAL STABILIZATION OF THE SITE IS ACHIEVED, A BUFFER MAY BE THINNED OR TRIMMED OF VEGETATION AS LONG AS A PROTECTIVE VEGETATIVE COVER REMAINS TO PROTECT WATER QUALITY AND AQUATIC HABITAT AND A NATURAL CANOPY IS LEFT IN SUFFICIENT QUANTITY TO KEEP SHADE ON STREAM BED; PROVIDED, HOWEVER, THAT ANY PERSON CONSTRUCTING A SINGLE-FAMILY RESIDENCE, OWNER FOR HIS OR HER OWN OCCUPANCY, MAY THIN OR TRIM VEGETATION IN BUFFER AT ANY TIME AS LONG AS PROTECTIVE VEGETATIVE COVER CANOPY IS LEFT INSUFFICIENT QUANTITY TO KEEP SHADE ON THE STREAM BED (ORDINANCE No #0-2004-20: 6-1009)
NOTE:
 ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

SURVEYING & ENGINEERING
 578 BLACKLAWN ROAD
 CONYERS, GEORGIA 30094
 PHONE: (770) 485-9745
 FAX: (770) 483-9229

PA
 ATRICK &
 ASSOCIATES, INC.

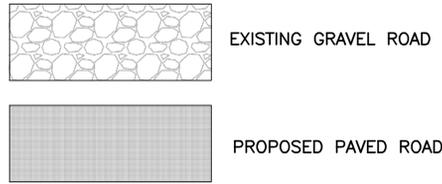
GEORGIA REGISTERED PROFESSIONAL ENGINEER
 No. 21568
 No. 11714
 No. 11714
 No. 11714

JOB NO. 14-192
 COMPUTED BY: MVR
 DRAWN BY: MVR
 CHECKED BY: MW
 DATE: 9/26/14
 SCALE: 1"=20'

NO.	DATE	REVISION	BY
1	11/14/14	PER PROJECT MANAGER	MVR

INITIAL EROSION CONTROL PLAN FOR:
PUTNAM COUNTY BOARD OF COMMISSIONERS
 LAND LOTS 94, 95 & 81
 4th LAND DISTRICT
PUTNAM COUNTY, GEORGIA

DRAWING NUMBER
29494
 SHEET: 5 OF: 18



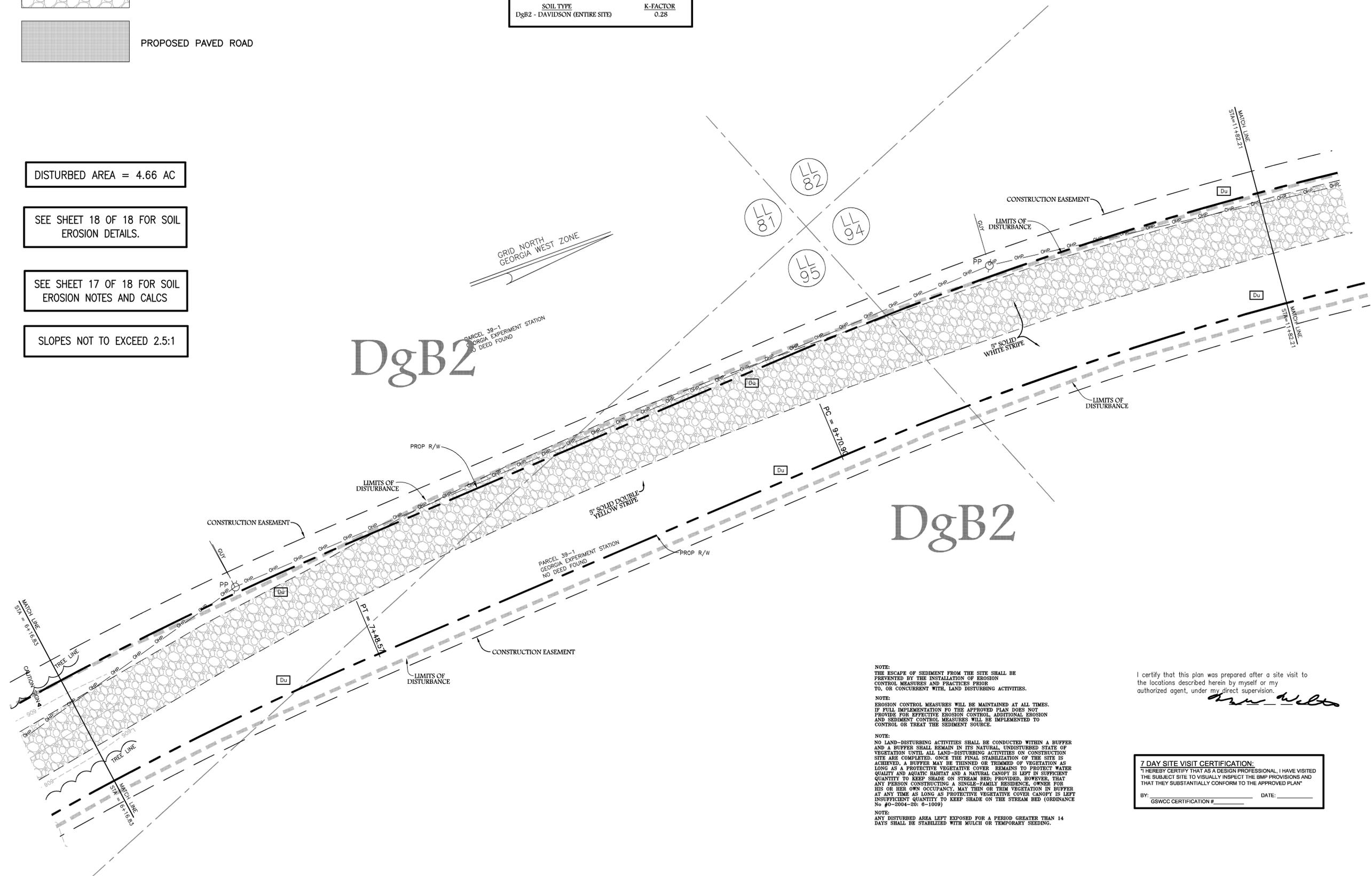
NPDES SOILS
 SOIL TYPE: DgB2 - DAVIDSON (ENTIRE SITE) K-FACTOR: 0.28

DISTURBED AREA = 4.66 AC

SEE SHEET 18 OF 18 FOR SOIL EROSION DETAILS.

SEE SHEET 17 OF 18 FOR SOIL EROSION NOTES AND CALCS

SLOPES NOT TO EXCEED 2.5:1



NOTE:
 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.

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

I certify that this plan was prepared after a site visit to the locations described herein by myself or my authorized agent, under my direct supervision.

Ann White

7 DAY SITE VISIT CERTIFICATION:
 I HEREBY CERTIFY THAT AS A DESIGN PROFESSIONAL, I HAVE VISITED THE SUBJECT SITE TO VISUALLY INSPECT THE BMP PROVISIONS AND THAT THEY SUBSTANTIALLY CONFORM TO THE APPROVED PLAN.
 BY: _____ DATE: _____
 GSWCC CERTIFICATION # _____

SURVEYING & ENGINEERING
 578 BLACKLAWN ROAD
 CONYERS, GEORGIA 30094
 PHONE: (770) 485-9745
 FAX: (770) 483-9229

PA TRICK & ASSOCIATES, INC.

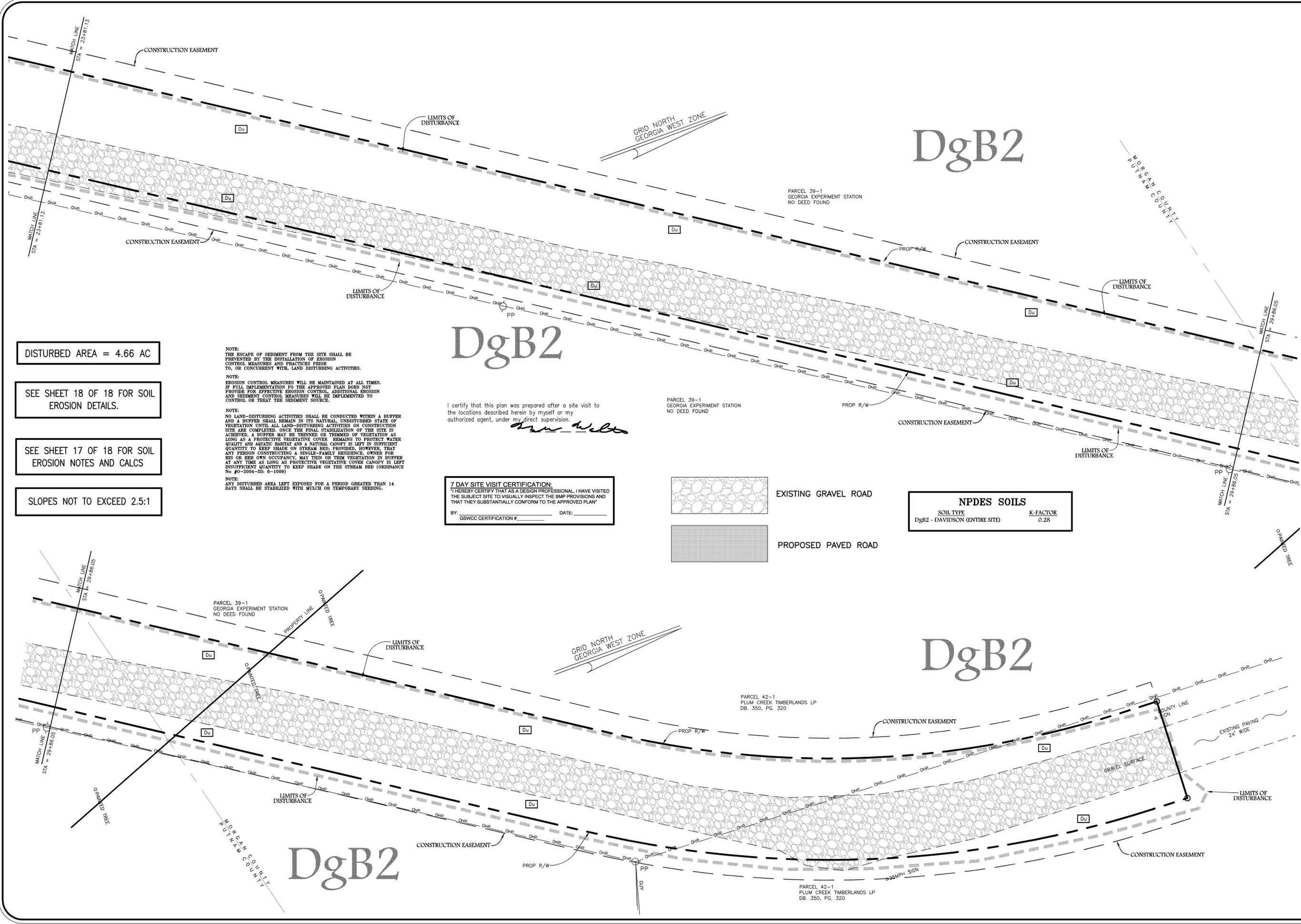
GEORGIA REGISTERED PROFESSIONAL ENGINEER
 No. 21564
 Exp. 12/31/14
 Ann White

JOB NO. 14-192	COMPUTED BY: _____	BY: _____
	DRAWN BY: MR	DATE: 11/14/14
	CHECKED BY: MW	REVISION: _____
	DATE: 02/26/14	PER PROJECT MANAGER
	SCALE: 1"=20'	

INITIAL EROSION CONTROL PLAN FOR:
PUTNAM COUNTY BOARD OF COMMISSIONERS
 LAND LOTS 94, 95 & 81
 4th LAND DISTRICT
PUTNAM COUNTY, GEORGIA

DRAWING NUMBER
29494

SHEET: **6** OF: **18**



DISTURBED AREA = 4.66 AC

SEE SHEET 18 OF 18 FOR SOIL EROSION DETAILS.

SEE SHEET 17 OF 18 FOR SOIL EROSION NOTES AND CALCS

SLOPES NOT TO EXCEED 2.5:1

NOTE:
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NOTE:
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NOTE:
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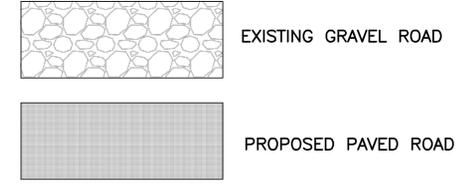
DgB2

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Tom Wilts

7 DAY SITE VISIT CERTIFICATION:
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BY: _____ DATE: _____
GSWCC CERTIFICATION # _____

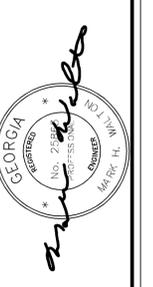


NPDES SOILS

SOIL TYPE	K-FACTOR
DgB2 - DAVIDSON (ENTIRE SITE)	0.28

DgB2

SURVEYING & ENGINEERING
578 BLACKLAWN ROAD
CONYERS, GEORGIA 30094
PHONE: (770) 483-9745
FAX: (770) 483-9229



JOB NO. 14-192	COMPUTED NO.	DATE: 8/28/14
BY: _____	DRAWN BY: MR	CHECKED BY: MW
REVISION	NO. DATE	SCALE: 1"=20'

NO.	DATE	BY	REVISION
1	11/14/14	PER PROJECT MANAGER	

INITIAL EROSION CONTROL PLAN FOR:
PUTNAM COUNTY BOARD OF COMMISSIONERS
LAND LOTS 94, 95 & 81
4th LAND DISTRICT
PUTNAM COUNTY, GEORGIA

DRAWING NUMBER 29494	
SHEET: 8	OF: 18

I certify that this plan was prepared after a site visit to the locations described herein by myself or my authorized agent, under my direct supervision.

Ann White

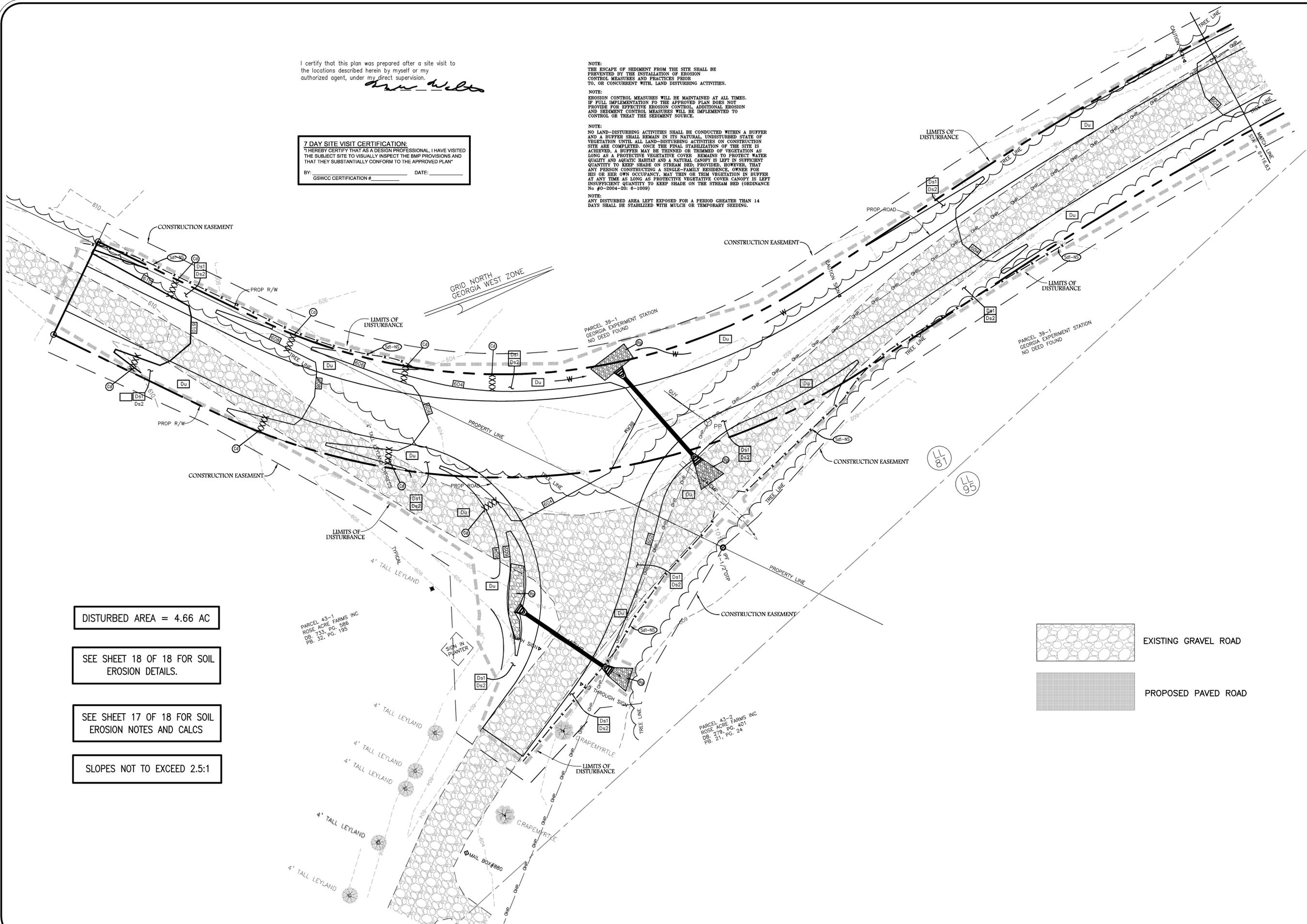
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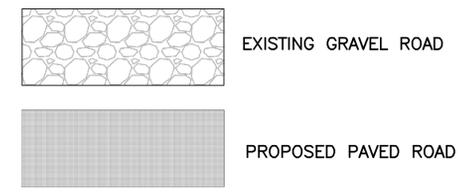


DISTURBED AREA = 4.66 AC

SEE SHEET 18 OF 18 FOR SOIL EROSION DETAILS.

SEE SHEET 17 OF 18 FOR SOIL EROSION NOTES AND CALCS

SLOPES NOT TO EXCEED 2.5:1



SURVEYING & ENGINEERING
 578 BLACKLAWN ROAD
 CONYERS, GEORGIA 30094
 PHONE: (770) 485-9745
 FAX: (770) 483-9209



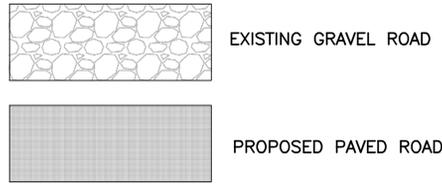
Ann White
 No. 2156
 No. 11714
 No. 87

JOB NO. 14-192	COMPUTED BY: MW
DRAWN BY: MW	CHECKED BY: MW
DATE: 8/28/14	SCALE: 1"=20'

NO.	DATE	REVISION	BY
1	11/14/14	PER PROJECT MANAGER	MW

INTERMEDIATE EROSION CONTROL PLAN FOR:
PUTNAM COUNTY BOARD OF COMMISSIONERS
 LAND LOTS 94, 95 & 81
 4th LAND DISTRICT
PUTNAM COUNTY, GEORGIA

DRAWING NUMBER	29494
SHEET	9
OF	18

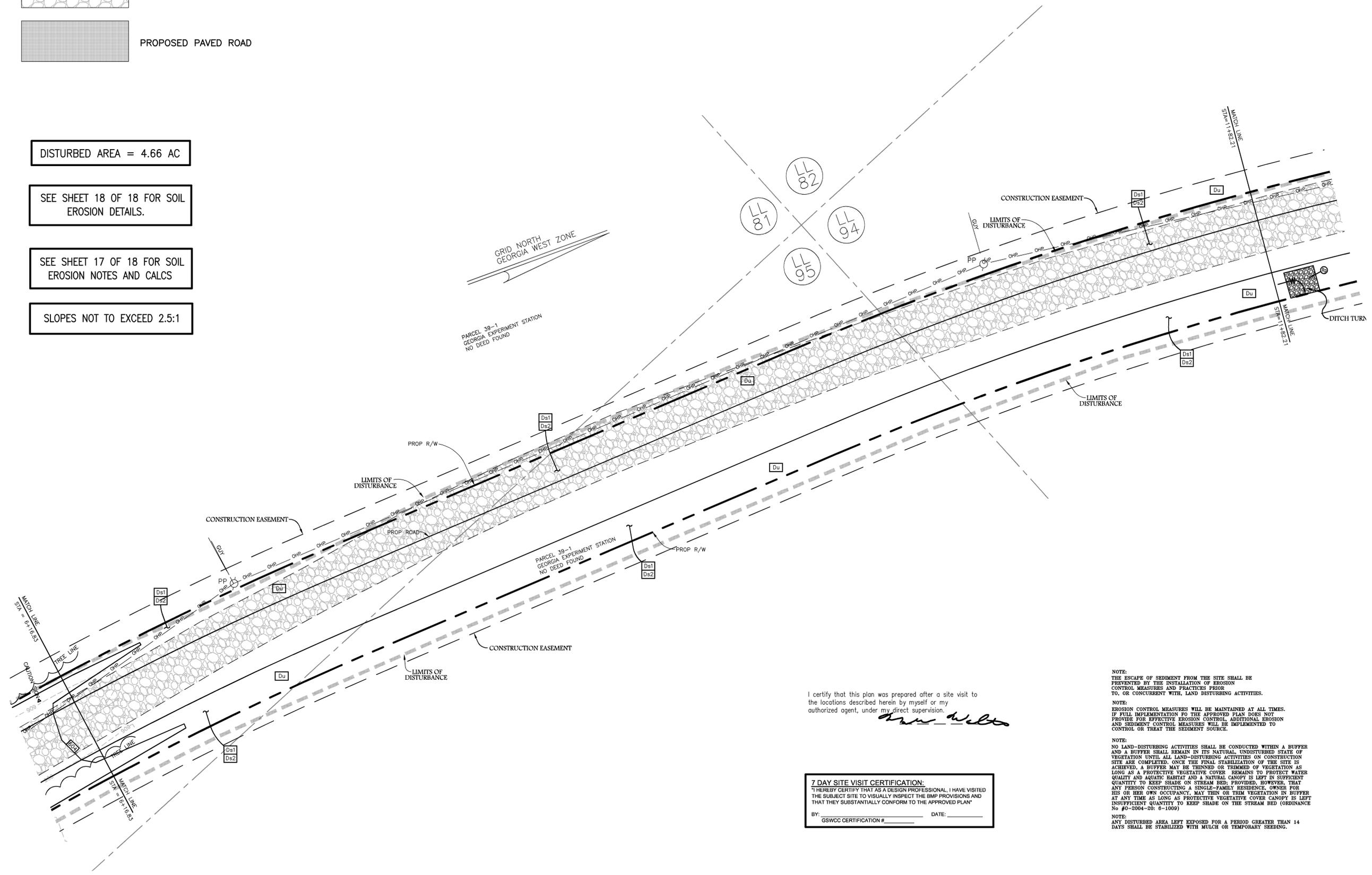


DISTURBED AREA = 4.66 AC

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SEE SHEET 17 OF 18 FOR SOIL EROSION NOTES AND CALCS

SLOPES NOT TO EXCEED 2.5:1



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[Signature]

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SURVEYING & ENGINEERING
 578 BLACKLAWN ROAD
 CONYERS, GEORGIA 30094
 PHONE: (770) 485-9745
 FAX: (770) 483-9229



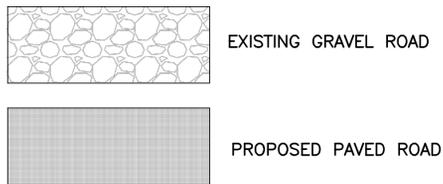
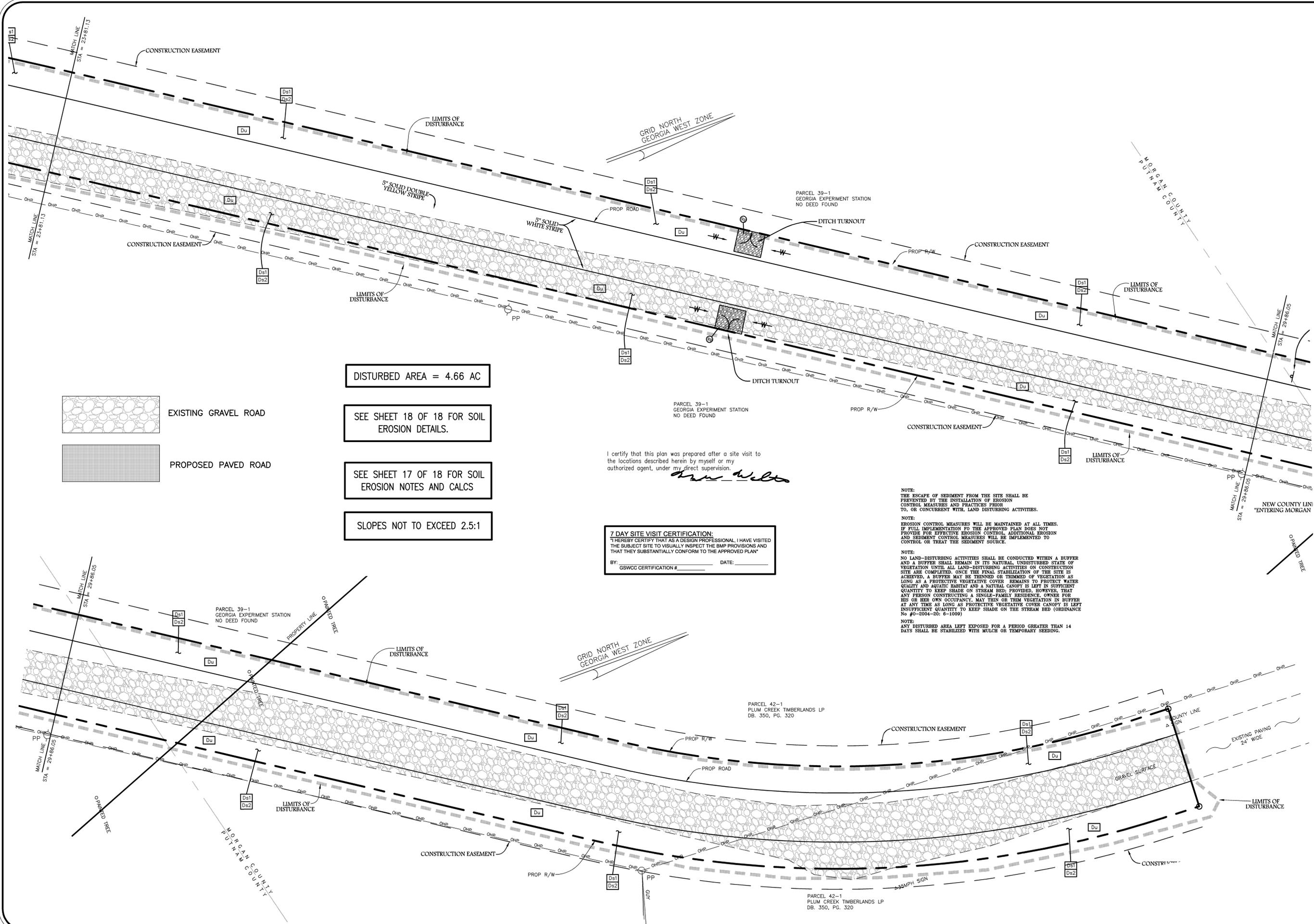
Georgia Professional Engineer
 No. 21568
 State of Georgia
 License Expires 12/31/2014
[Signature]

JOB NO. 14-192	COMPUTED NO.	BY
		JR
	DRAWN BY: NR	
	CHECKED BY: MW	
	DATE: 8/28/14	
	SCALE: 1"=20'	

NO.	DATE	REVISION	BY
1	11/14/14	PER PROJECT MANAGER	JR

INTERMEDIATE EROSION CONTROL PLAN FOR:
PUTNAM COUNTY BOARD OF COMMISSIONERS
 LAND LOTS 94, 95 & 81
 4th LAND DISTRICT
PUTNAM COUNTY, GEORGIA

DRAWING NUMBER
29494
 SHEET: 10 OF: 18



DISTURBED AREA = 4.66 AC

SEE SHEET 18 OF 18 FOR SOIL EROSION DETAILS.

SEE SHEET 17 OF 18 FOR SOIL EROSION NOTES AND CALCS

SLOPES NOT TO EXCEED 2.5:1

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[Signature]

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SURVEYING & ENGINEERING
 578 BLACKLAWN ROAD
 CONYERS, GEORGIA 30094
 PHONE: (770) 485-9745
 FAX: (770) 483-9229



JOB NO. 14-192	COMPUTED BY: JWR
DRAWN BY: MR	CHECKED BY: MW
DATE: 8/28/14	SCALE: 1"=20'

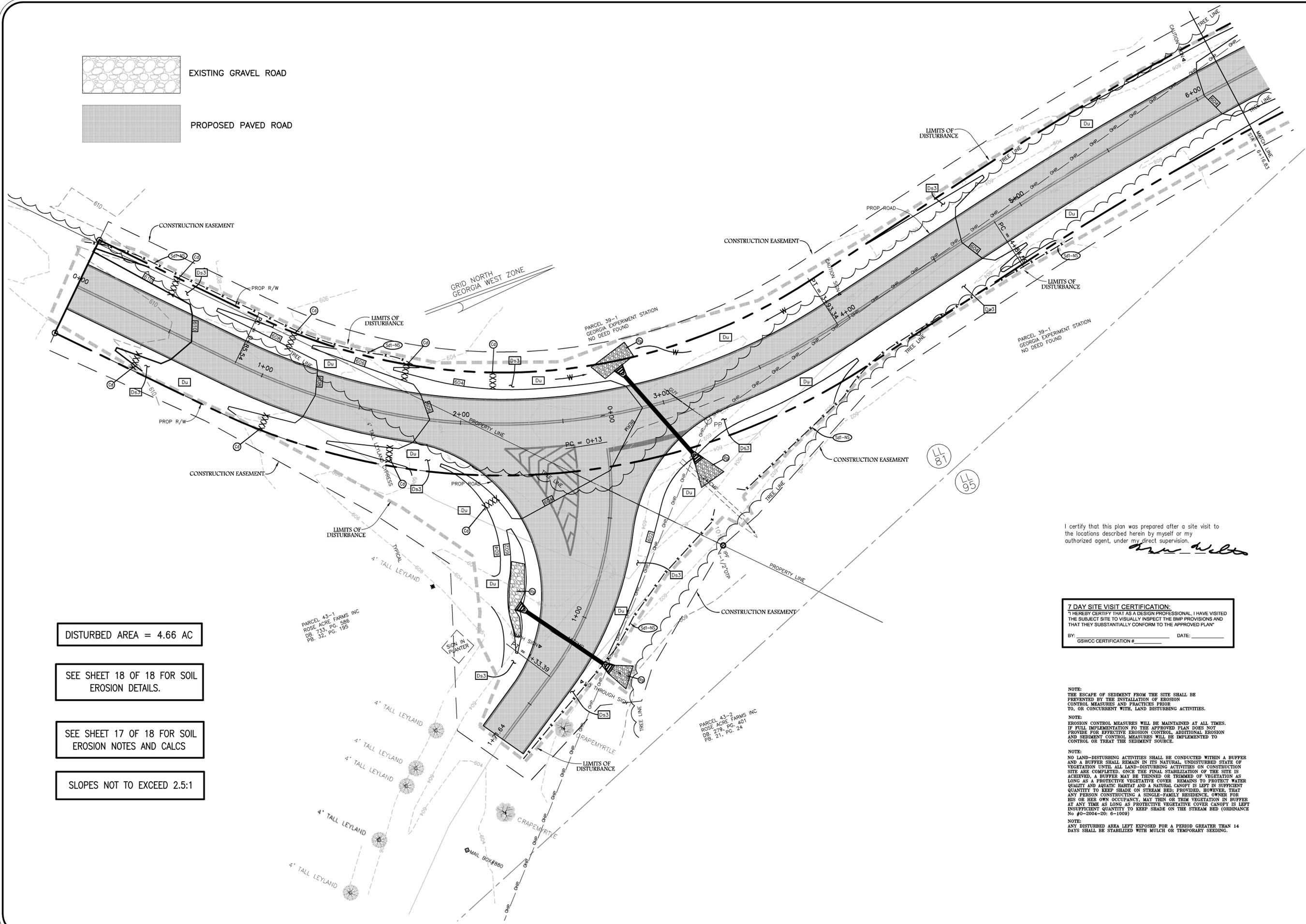
NO.	DATE	REVISION
1	11/14/14	PER PROJECT MANAGER

INTERMEDIATE EROSION CONTROL PLAN FOR:
PUTNAM COUNTY BOARD OF COMMISSIONERS
 LAND LOTS 94, 95 & 81
 4th LAND DISTRICT
PUTNAM COUNTY, GEORGIA

DRAWING NUMBER
29494

SHEET: **12** OF: **18**

EXISTING GRAVEL ROAD
 PROPOSED PAVED ROAD



DISTURBED AREA = 4.66 AC

SEE SHEET 18 OF 18 FOR SOIL EROSION DETAILS.

SEE SHEET 17 OF 18 FOR SOIL EROSION NOTES AND CALCS

SLOPES NOT TO EXCEED 2.5:1

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Ann Wilts

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NOTE:
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SURVEYING & ENGINEERING
 578 BLACKLAWN ROAD
 CONYERS, GEORGIA 30094
 PHONE: (770) 485-9745
 FAX: (770) 483-9229



ANN WILTS
 REGISTERED PROFESSIONAL ENGINEER
 No. 21564
 Exp. 12/31/2014
 AIR POK HL

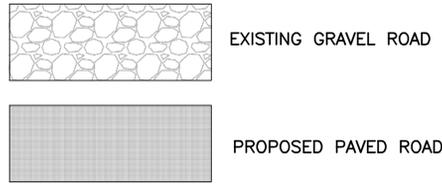
JOB NO. 14-192
 COMPUTED BY: _____
 DRAWN BY: NR
 CHECKED BY: MW
 DATE: 8/28/14
 SCALE: 1"=20'

NO.	DATE	REVISION	BY
1	11/14/14	PER PROJECT MANAGER	NR

FINAL EROSION CONTROL PLAN FOR:
PUTNAM COUNTY BOARD OF COMMISSIONERS
 LAND LOTS 94, 95 & 81
 4th LAND DISTRICT
PUTNAM COUNTY, GEORGIA

DRAWING NUMBER
29494

SHEET: **13** OF: **18**

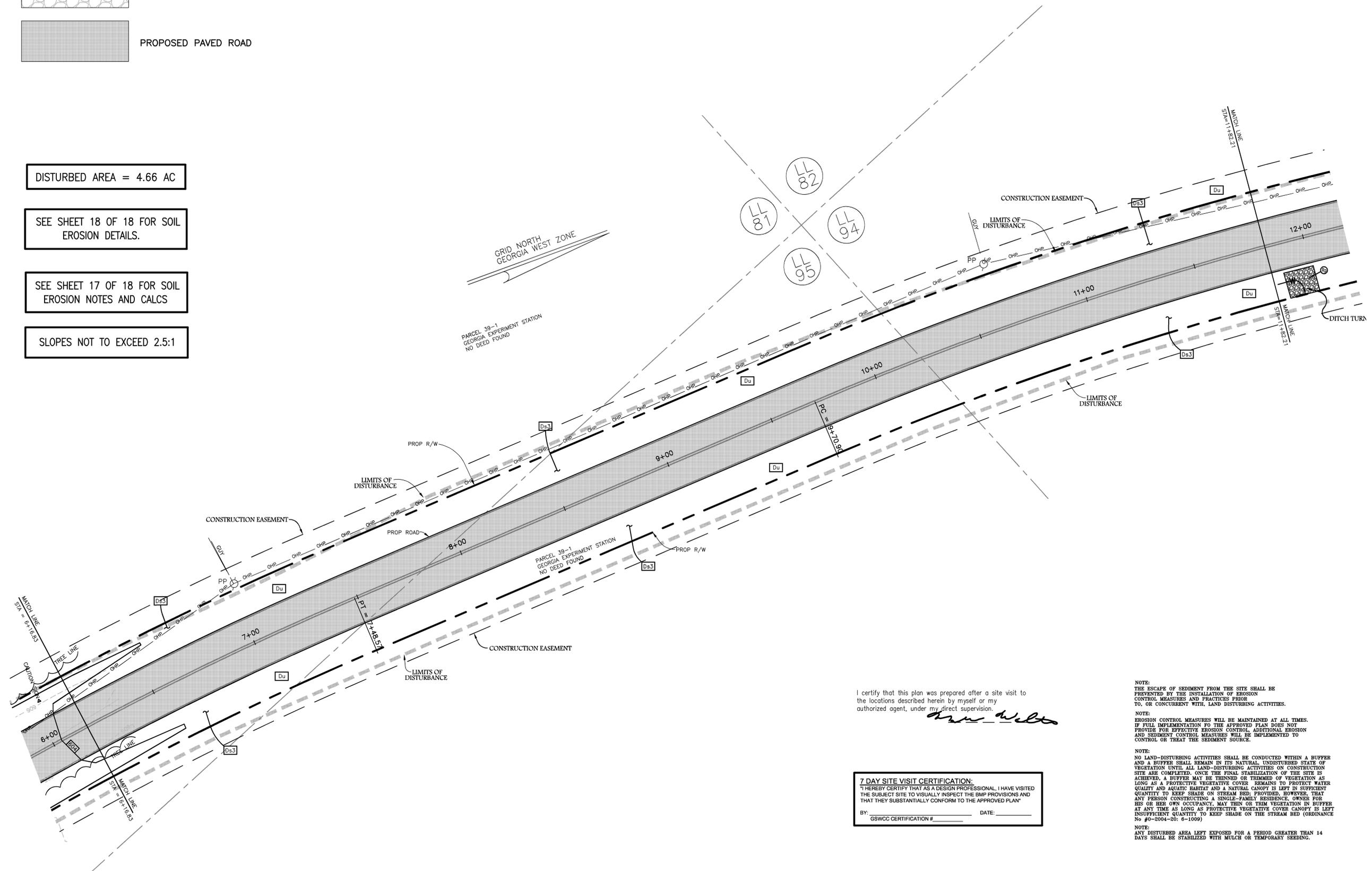


DISTURBED AREA = 4.66 AC

SEE SHEET 18 OF 18 FOR SOIL EROSION DETAILS.

SEE SHEET 17 OF 18 FOR SOIL EROSION NOTES AND CALCS

SLOPES NOT TO EXCEED 2.5:1



I certify that this plan was prepared after a site visit to the locations described herein by myself or my authorized agent, under my direct supervision.

John Wilts

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SURVEYING & ENGINEERING
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 CONYERS, GEORGIA 30094
 PHONE: (770) 483-9745
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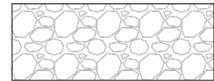
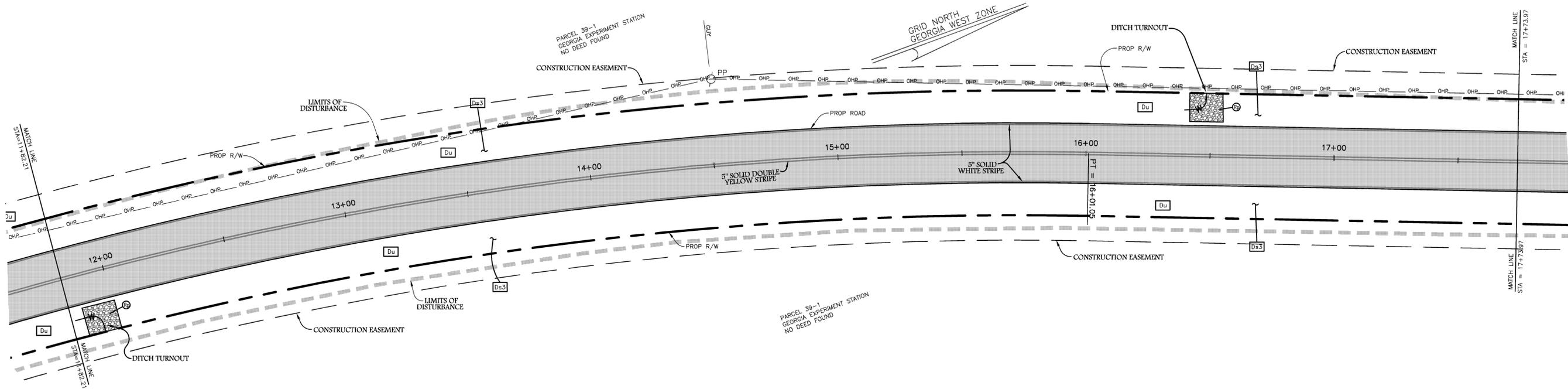


JOB NO. 14-192
 COMPUTED BY: _____
 DRAWN BY: MR
 CHECKED BY: MW
 DATE: 8/28/14
 SCALE: 1"=20'

NO.	DATE	REVISION	BY
1	11/14/14	PER PROJECT MANAGER	MR

FINAL EROSION CONTROL PLAN FOR:
PUTNAM COUNTY BOARD OF COMMISSIONERS
 LAND LOTS 94, 95 & 81
 4th LAND DISTRICT
PUTNAM COUNTY, GEORGIA

DRAWING NUMBER
29494
 SHEET: 14 OF: 18



EXISTING GRAVEL ROAD



PROPOSED PAVED ROAD

I certify that this plan was prepared after a site visit to the locations described herein by myself or my authorized agent, under my direct supervision.

Ann Wilts

7 DAY SITE VISIT CERTIFICATION:
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 BY: _____ DATE: _____
 GSWCC CERTIFICATION # _____

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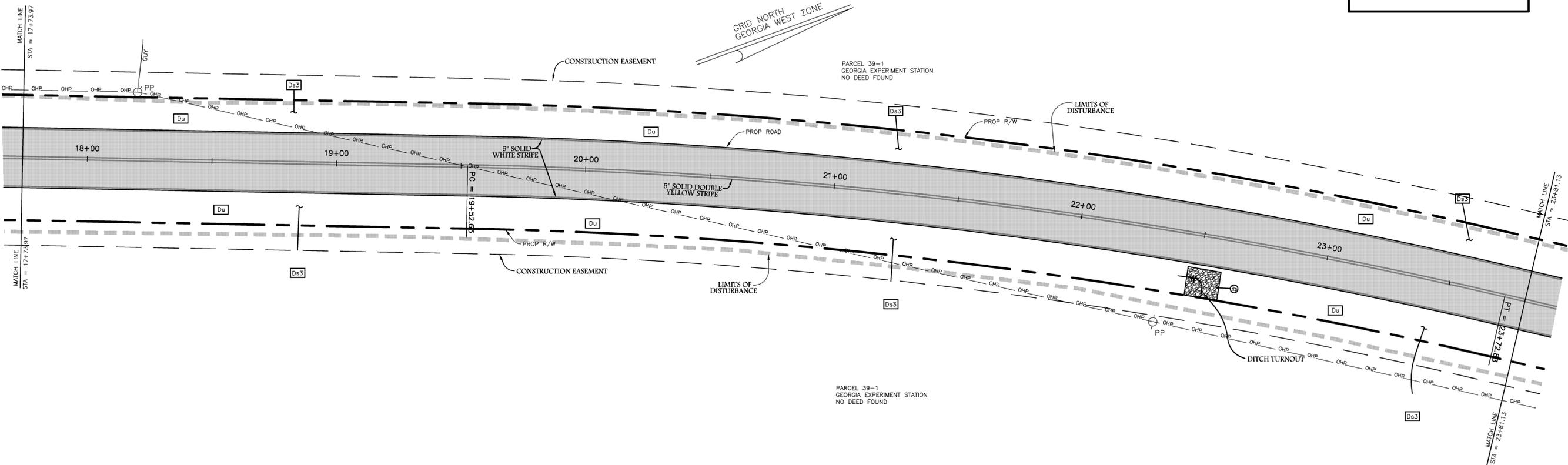
NOTE:
 ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

DISTURBED AREA = 4.66 AC

SEE SHEET 18 OF 18 FOR SOIL EROSION DETAILS.

SEE SHEET 17 OF 18 FOR SOIL EROSION NOTES AND CALCS

SLOPES NOT TO EXCEED 2.5:1

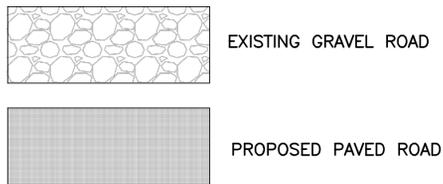
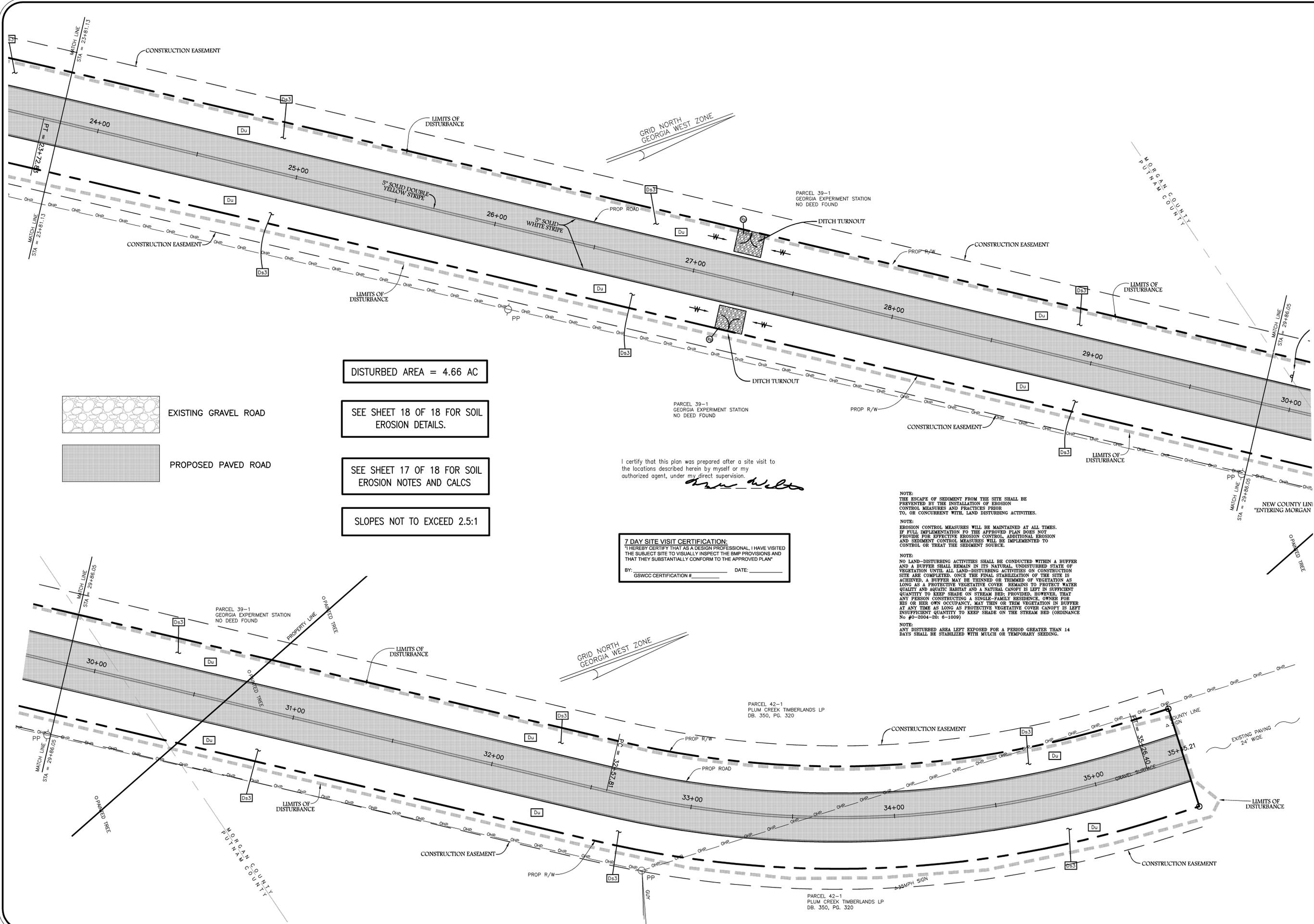


JOB NO. 14-192	COMPUTED BY: JWR
DRAWN BY: MR	CHECKED BY: MW
DATE: 9/26/14	SCALE: 1"=20'

NO.	DATE	REVISION	BY
1	11/14/14	PER PROJECT MANAGER	JWR

FINAL EROSION CONTROL PLAN FOR:
PUTNAM COUNTY BOARD OF COMMISSIONERS
 LAND LOTS 94, 95 & 81
 4th LAND DISTRICT
PUTNAM COUNTY, GEORGIA

DRAWING NUMBER 29494	
SHEET: 15	OF: 18



DISTURBED AREA = 4.66 AC

SEE SHEET 18 OF 18 FOR SOIL EROSION DETAILS.

SEE SHEET 17 OF 18 FOR SOIL EROSION NOTES AND CALCS

SLOPES NOT TO EXCEED 2.5:1

I certify that this plan was prepared after a site visit to the locations described herein by myself or my authorized agent, under my direct supervision.

Ann Wilco

7 DAY SITE VISIT CERTIFICATION:
 I HEREBY CERTIFY THAT AS A DESIGN PROFESSIONAL, I HAVE VISITED THE SUBJECT SITE TO VISUALLY INSPECT THE BMP PROVISIONS AND THAT THEY SUBSTANTIALLY CONFORM TO THE APPROVED PLAN.
 BY: _____ DATE: _____
 GSWCC CERTIFICATION # _____

NOTE:
 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.

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

NOTE:
 NO LAND-DISTURBING ACTIVITIES SHALL BE CONDUCTED WITHIN A BUFFER AND A BUFFER SHALL REMAIN IN ITS NATURAL, UNDISTURBED STATE OF VEGETATION UNTIL ALL LAND-DISTURBING ACTIVITIES ON CONSTRUCTION SITE ARE COMPLETED. ONCE THE FINAL STABILIZATION OF THE SITE IS ACHIEVED, A BUFFER MAY BE THINNED OR TRIMMED OF VEGETATION AS LONG AS A PROTECTIVE VEGETATIVE COVER REMAINS TO PROTECT WATER QUALITY AND AQUATIC HABITAT AND A NATURAL CANOPY IS LEFT IN SUFFICIENT QUANTITY TO KEEP SHADE ON STREAM BED; PROVIDED, HOWEVER, THAT ANY PERSON CONSTRUCTING A SINGLE-FAMILY RESIDENCE, OWNER FOR HIS OR HER OWN OCCUPANCY, MAY THIN OR TRIM VEGETATION IN BUFFER AT ANY TIME AS LONG AS PROTECTIVE VEGETATIVE COVER CANOPY IS LEFT INSUFFICIENT QUANTITY TO KEEP SHADE ON THE STREAM BED (ORDINANCE No #0-2004-20: 6-1009)

NOTE:
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SURVEYING & ENGINEERING
 578 BLACKLAWN ROAD
 CONYERS, GEORGIA 30094
 PHONE: (770) 485-9745
 FAX: (770) 483-9299



JOB NO. 14-192	COMPUTED BY: MW
DRAWN BY: MW	CHECKED BY: MW
DATE: 8/28/14	SCALE: 1"=20'

NO.	DATE	REVISION	BY
1	11/14/14	PER PROJECT MANAGER	MW

FINAL EROSION CONTROL PLAN FOR:
PUTNAM COUNTY BOARD OF COMMISSIONERS
 LAND LOTS 94, 95 & 81
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DRAWING NUMBER	29494
SHEET	16
OF	18

GEORGIA UNIFORM CODING SYSTEM FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

GEORGIA SOIL AND WATER CONSERVATION COMMISSION

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

STRUCTURAL PRACTICES

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

STRUCTURAL PRACTICES

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

VEGETATIVE PRACTICES

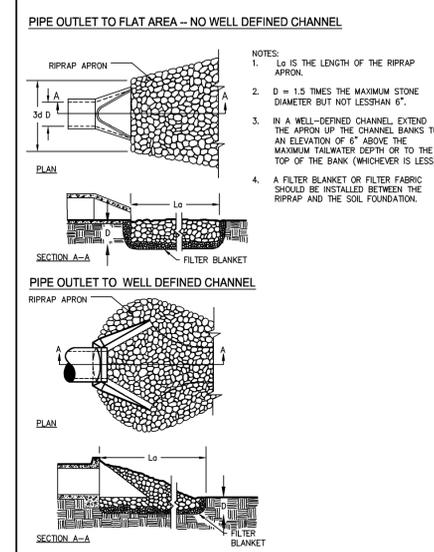
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	CONSTANT DUNE STABILIZATION (WITH VEGETATION)			Planting vegetation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

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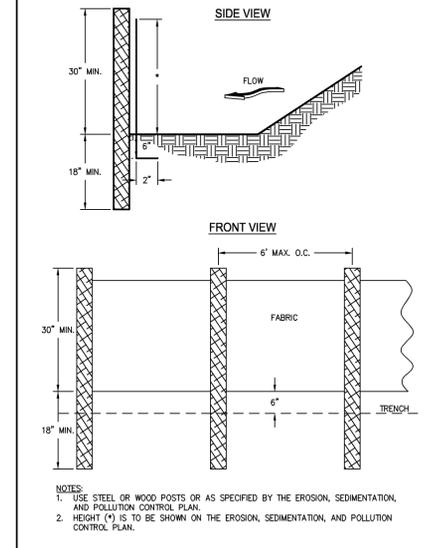
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RIPRAP OUTLET PROTECTION

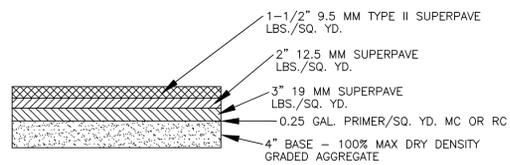


SILT FENCE - TYPE NON-SENSITIVE

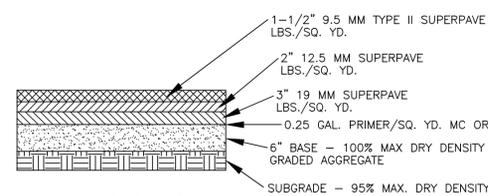


ACTIVITY SCHEDULE

ACTIVITY	BEGIN	COMPLETE
INSTALLATION OF SEDIMENT CONTROL MEASURES	WEEK 1	WEEK 2
CLEARING & GRUBBING	WEEK 2	WEEK 3
GRADING	WEEK 2	WEEK 8
GRASSING (TEMP)	WEEK 2	WEEK 8
STORM	WEEK 8	WEEK 9
PAVING	WEEK 9	WEEK 11
MAINTENANCE OF EROSION & SEDIMENT CONTROL MEASURES	WEEK 9	WEEK 11
FINAL GRASSING	WEEK 11	WEEK 12



PAVING SECTION OVER EXISTING GRAVEL ROAD
+/- 5471 SY



STANDARD PAVING
+/- 4741 SY

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST

Plan Page #	Included	ES&PC PLAN	DESCRIPTION
COVER	Y	Y	1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed.)
COVER	Y	Y	2 Level II certification number issued by the Commission, signature and seal of the certified design professional (Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed.)
COVER	Y	Y	3 The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution control.
COVER	Y	Y	4 Provide the name, address and phone number of primary permits.
COVER	Y	Y	5 Note tabs and disturbed acreage of the project or phase under construction.
COVER	Y	Y	6 Provide the GPS locations of the Beginning and End of the Infrastructure project. Give the Latitude and Longitude in decimal degrees.
COVER	Y	Y	7 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
COVER	Y	Y	8 Description of the nature of construction activity.
COVER	Y	Y	9 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
COVER	Y	Y	10 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, etc. which may be affected.
COVER	Y	Y	11 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on page 15 of the permit.
COVER	Y	Y	12 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on page 15 of the permit.
COVER	Y	Y	13 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for representative sampling as stated on page 26 of permit as applicable.
COVER	Y	Y	14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements, perimeter control BMPs and sediment basins in accordance with part IV A.5 within 7 days after installation."
COVER	Y	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 arched vegetation without first acquiring the necessary variances and permits."
COVER	Y	Y	16 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional."
COVER	Y	Y	17 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a section 404 permit."
COVER	Y	Y	18 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."
COVER	Y	Y	19 Clearly note statement that "Erosion control measures will be maintained at all times. If/when 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."
COVER	Y	Y	20 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
COVER	Y	Y	21 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 Impaired Stream Segment must comply with Part III C. of the Permit. Include a completed Appendix I listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment."
COVER	Y	Y	22 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (cited in Item 21 above) attached to records prior to construction of the ES&PC Plan, must address any site-specific conditions or requirements included in the TMDL Implementation Plan."
COVER	Y	Y	23 BMPs for concrete washwater of trucks, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited."
COVER	Y	Y	24 Provide BMPs for the remediation of all petroleum spills and leaks.
COVER	Y	Y	25 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."
COVER	Y	Y	26 Description of the practices that will be used to reduce the pollutants in storm water discharges."
COVER	Y	Y	27 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., fill, perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
COVER	Y	Y	28 Provide complete requirements of inspections and record keeping by the primary permittee."
COVER	Y	Y	29 Provide complete requirements of reporting and reporting of sampling results."
COVER	Y	Y	30 Provide complete details for retention of records as per Part IV F. of the permit."
COVER	Y	Y	31 Description of analytical methods to be used to collect and analyze the samples from each location."
COVER	Y	Y	32 Appendix B rationale for NTU values at all outfall sampling points where applicable."
COVER	Y	Y	33 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which stormwater is discharged also provide a summary chart of the justification and analysis for a representative sampling as applicable."
COVER	Y	Y	34 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 steps into a single phase."
COVER	Y	Y	35 Grading scale and north arrow.
COVER	Y	Y	36 Existing and proposed control lines with contour lines drawn at an interval in accordance with the following: Existing Contours USGS 1" 2007 Topographical Sheets Proposed Contours 1" 400 Contourline Profile
COVER	Y	Y	37 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 EPA or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gswcc.org.
COVER	Y	Y	38 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.
COVER	Y	Y	39 Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
COVER	Y	Y	40 Delineation and acreage of contributing drainage basins on the project site.
COVER	Y	Y	41 Delineate on-site drainage and off-site watersheds using USGS 1" 2007 topographical sheets.
COVER	Y	Y	42 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
COVER	Y	Y	43 Storm-drain pipe and water vaults with appropriate outfall protection to accommodate discharges without erosion, locally delineate all storm water discharge points.
COVER	Y	Y	44 Soil series for the project site and their delineation.
COVER	Y	Y	45 The limits of disturbance for each phase of construction.
COVER	Y	Y	46 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin (retained) detention pond, and/or excavated and lined sediment traps for each common drainage location. Sediment storage volume must be in place prior to any 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. Watersheds from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging to sediment basins and impoundments, permittees are required to utilize silt collection structures that allow water from the surface, unless otherwise stated. Filled structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the plan.
COVER	Y	Y	47 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 8, with legend.
COVER	Y	Y	48 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.
COVER	Y	Y	49 Provide vegetative plan, noting all temporary and permanent vegetative practices. Includes species, planting dates and spacing, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year seeding will take place and for the appropriate geographic region of Georgia.
COVER	Y	Y	50 Using this checklist for a project that is less than 1 acre and not part of a common development but within 200 feet of a perennial stream the "checked" items would be N/A.

Effective January 1, 2014

SURVEYING & ENGINEERING
578 BLACKLAWN ROAD
CONYERS, GEORGIA 30094
PHONE: (770) 483-9745
FAX: (770) 483-9729

PATRICK & ASSOCIATES, INC.

GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. 2586
Exp. 11/16/2014

JOB NO. 14-192
COMPUTED NO.
DRAWN BY: NR
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REVISION
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DETAILS FOR:
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LAND LOTS 94, 95 & 81
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SHEET: 18 OF: 18