FINAL LAND DEVELOPMENT SITE PLANS FOR WELLSTAR HEALTH SYSTEM, INC. - SENOIA GEORGIA HIGHWAY 16, CITY OF SENOIA, COWETA COUNTY, GEORGIA 30276

PROPERTY: 8075 WELLS STREET (GEORGIA HIGHWAY 16) SENOIA, GA 30276 COWETA COUNTY

PARCEL ID: 163 1278 022 TRACT: A-1 DISTRICT: 4 AREA: 1.986 AC.

ZONING USE: GC (GENERAL COMMERCIAL)

OWNER/APPLICANT WELLSTAR HEALTH SYSTEM 793 SAWYER ROAD MARIETTA, GA 30062 PHONE: (470) 644-0265 EMAIL: MILVIA.GONZALES@WELLSTAR.ORG

ENGINEER INDEPENDENCE ENGINEERING LLC 1777 SENTRY PARKWAY WEST BUILDING 12, SUITE 103 BLUE BELL, PENNSYLVANIA, 19422 PHONE: (215) 798-4450 EMAIL: INDEPENDENCE@INDEPENDENCE.ENGINEERING

ARCHITECT: ALIGN DESIGN ASSOCIATES LLC 145 CHURCH STREET MARIETTA, GA 30060 PHONE: (404) 424-4488

SURVEYOR: REFERENCE POINT LAND SURVEYING LLC **5 NORTH LEE STREET** PO BOX 824 FORSYTH, GA 31029

PHONE: (478) 365-9809

DEVELOPMENT DESCRIPTION: THIS DEVELOPMENT PROPOSES THE CONSTRUCTION OF A PRIMARY CARE FACILITY, ASSOCIATED AND PAVED PARKING, AND A STORM WATER COLLECTION SYSTEM TO COLLECT ANY RUNOFF AND DISCHARGE IT. THE SITE HAS 2 GENERAL EXISTING DRAINAGE AREAS, A SMALL SECTION OF THE SITE (DRAINAGE AREA B) DRAINS FROM THE HIGH RIDGE IN THE NORTHEAST OF THE PROPERTY TOWARDS THE GEORGIA HIGHWAY 16 AND TUCKER ROAD INTERSECTION. THE LARGER AREA DESIGNATED AS DRAINAGE AREA A FLOWS TOWARDS THE SOUTHWEST. THE SITE HAS AN APPROXIMATE AVERAGE SLOPE OF 5.9%.

LOT REQUIREMENTS FOR GC (GENERAL COMMERCIAL) DISTRICT FOR THE CITY OF SENOIA:

BULK & AREA CRITERIA	REQUIRED	EXISTING	PROPOSED*
MINIMUM TOTAL LOT AREA (SQUARE FEET)	43,560	86,519	69,098
MINIMUM WIDTH (FEET)	100	-	-
MAXIMUM BUILDING HEIGHT (FEET)	40	N/A	26.5
MAXIMUM LOT SURFACE COVERAGE (%)	90%	0%	49.6%
FRONT YARD SETBACK (ARTERIAL) (FEET)	75	75	75
FRONT YARD SETBACK (LOCAL) (FEET)	30	30	30
SIDE YARD SETBACK (ARTERIAL)(FEET)	50	N/A	N/A
SIDE YARD SETBACK (LOCAL)(FEET)	20	20	20
REAR YARD SETBACK (ARTERIAL)(FEET)	80	N/A	N/A
REAR YARD SETBACK (LOCAL)(FEET)	30	N/A	N/A

* TRACT A-1 PROPERTY LINES TO BE REVISED FOR TUCKER ROAD REALIGNMENT

PARKING REQUIREMENTS (COMMERCIAL CORRIDOR OVERLAY)

	REQUIRED	PROVIDED					
SPACES	24*	41					
SPACE PER 300 SF OF COMMERCIAL FLOOR AREA AVAILABLE TO THE PUBLIC.							

APPROVAL OF PLANS SHALL BE EFFECTIVE FOR A PERIOD OF ONE YEAR AND THEREAFTER EXPIRE AND BE NULL AND VOID UNLESS A TIME EXTENSION IS APPROVED PRIOR TO EXPIRATION.





SHEET INDEX

SHEET NO.	REFERENCE	SHEET TITLE
1	C000	COVER SHEET
2	C300	DEMOLITION PLAN
3	C400	SITE PLAN
4	C500	GRADING PLAN
5	C600	UTILITY PLAN
6	C700	STORM PROFILES
7	C710	SANITARY PROFILES
8	C720	TUCKER ROAD PLAN & PROFILE
9	C800	DETAIL SHEET A
10	C810	DETAIL SHEET B
11	C820	DETAIL SHEET C
12	C830	DETAIL SHEET D
13	C840	DETAIL SHEET E
14	C850	BASIN DETAILS SHEET 1
15	C860	BASIN DETAILS SHEET 2
16	C900	SR-16 GDOT PLANS A
17	C910	SR-16 GDOT PLANS B
18	C2000	SOIL EROSION & SEDIMENT CONTROL PLAN PHASE 1
19	C2100	SOIL EROSION & SEDIMENT CONTROL PLAN PHASE 2
20	C2200	SOIL EROSION & SEDIMENT CONTROL PLAN PHASE 3
21	C2300	SOIL EROSION & SEDIMENT CONTROL DETAILS
22	C2400	SOIL EROSION & SEDIMENT CONTROL NOTES
23	C2500	SOIL EROSION & SEDIMENT CONTROL NOTES

LANDSCAPING PLAN (BY BILSON & ASSOCIATES)

SHEET NO.	REFERENCE	SHEET TITLE							
1	L1-01	TREE PROTECTION PLAN							
2	L1-02	LANDSCAPE PLAN							
3 L1-03 LANDSCAPE PLAN NOTES & DETAILS									
4 L1-04 SITE FURNISHINGS / SPEC SHEETS									
THE LANDSCAPING	THE LANDSCAPING PLANS ARE A SEPARATE DESIGN SET MADE PART OF THE OVERALL FINAL LAND DEVELOPMENT SITE PLANS.								

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FINAL LAND DEVELOPMENT SITE PLANS FOR COVER SHEET FOR FOR ROLESTAR HEALTH SYSTEM, INC SENOIA WELLSTAR HEALTH SYSTEM, INC SENOIA GEORGIA HIGHWAY 16, CITY OF SENOIA, COWETA COUNTY, GEORGIA 30276 INDEPENDENCE@INDEPENDENCE.ENGINEERING INDEPENDENCE@INDEPENDENCE.ENGINEERING INDEPENDENCE@INDEPENDENCE.ENGINEERING INDEPENDENCE@INDEPENDENCE.ENGINEERING INDEPENDENCE@INDEPENDENCE.ENGINEERING INDEPENDENCE@INDEPENDENCE.ENGINEERING INDEPENDENCE@INDEPENDENCE.ENGINEERING INDEPENDENCE@INDEPENDENCE.ENGINEERING INDEPENDENCE@INDEPENDENCE.ENGINEERING INDEPENDENCE@INDEPENDENCE.ENGINEERING INDEPENDENCE@INDEPENDENCE.ENGINEERING INDEPENDENCE@INDEPENDENCE.ENGINEERING INDEPENDENCE@INDEPENDENCE.ENGINEERING INDEPENDENCE@INDEPENDENCE.ENGINEERING INDEPENDENCERING INDEPENDENCERING INDEPENDENCERING INDEPENDENCERING	REV	1	5					
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S	OILS: MAP UNIT SYMBOL MdB MfC2	MAP UNIT NAME MADISON GRAVELLY SANDY LOAM 2% - 6% MADISON GRAVELLY SANDY CLAY LOAM 6% - 10%	RATING B B	DRAINAGE WELL DRAINED WELL DRAINED	TEXTURE GRAVELLY SANDY LOAM GRAVELLY FINE SANDY LOAM	FINAL LAND DEVELOPMENT SITE PLANS		DEMOLITION PLAN	FOR	WELLSTAK HEALTH SYSTEW, INC SEINUTA GEORGIA HIGHWAY 16, CITY OF SENOIA, COWETA COUNTY, GEORGIA 30276
22. 23. 24. 25. 26.	REGULATIONS ALL UTILITIES PRIOR TO THE PRIOR TO DIS ALL UTILITY AGENCIES SH ALL EXISTING CONTRACTOR TEMPORARY PROPER DISP OR DEMOLISH	S, AND PROCEDURES ENFORCED BY THE FIRE DEPART SERVICING STRUCTURES TO BE DEMOLISHED SHAL COMMENCEMENT OF DEMOLITION. ALL UTILITY, DRA CONNECTION, AND ALL ACTIVE LINES SHALL BE PROT SERVICES TO BE INTERRUPTED SHALL BE CLEARLY ALL BE NOTIFIED TO ENSURE THE CONTINUATION OF S UTILITIES SHALL BE REMOVED, AS NECESSARY, IN ACC SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTION SEEDING TO BE IN ACCORDANCE WITH LOCAL AND STA OSAL OF DEMOLISHED ITEMS SHALL BE IN APPROPRIA	MENT AND C IL BE DISCO INAGE, AND FECTED CON Y MARKED I SERVICE. CORDANCE ONS NECESS ATE EROSION ATE LANDFIL	OTHER AUTHORITIE NNECTED, SHUT (SANITARY LINES S SISTENT WITH AC PRIOR TO DEMOL WITH LOCAL UTILI ARY. N AND SEDIMENT (L. NO ON-SITE BU	ES HAVING JURISDICTION. DFF, AND SEALED IN CONCRETE SHALL BE MARKED FOR POSITION CEPTED INDUSTRY STANDARDS ITION, AND ALL LOCAL UTILITY TY AGENCY REQUIREMENTS. CONTROL STANDARDS. RIAL OF CONSTRUCTION DEBRIS	***		erne	1777 SENT	BLUE BELL, (INDEPENDENCE@II NIFWI IFPCEV & PENN.
19. 20. 21.	DEMOLITION S BELOW GRAD SOIL MATERIA OTHER ORGA MAY NOT BE DEBRIS PRIOF DEPTH, AND CONTOURS AI ALL DEBRIS, I SITE AT THE HAZARDOUS	E AREAS AND VOIDS RESULTING FROM DEMOLITION ALS CONSISTING OF STONE, GRAVEL, AND SAND, FR NIC MATTER. STONES LARGER THAN SIX (6) INCHES USED AS FILL. AREAS TO BE FILLED SHALL BE FREE R TO FILLING. FILL MATERIALS SHALL BE PLACED IN H EACH COMPACTED TO 95% OPTIMUM DRY DENSIT ND TO PROVIDE ADEQUATE SURFACE DRAINAGE AWAY RUBBISH, SALVAGEABLE ITEMS, AND HAZARDOUS AN EARLIEST POSSIBLE TIME. MATERIALS TO BE REM AND COMPLISTIBLE MATERIALS SHALL BE REMOVED	OF STRUCT OF STRUCT REE FROM D IN DIMENSIO E STANDING IORIZONTAL Y. THE SU Y FROM FILL ID COMBUST MOVED MAY	Y PERSONS TO TH URES AND FOUNI EBRIS, TRASH, FF ON SHALL NOT BE WATER, FROST, LAYERS NOT EXCI RFACE SHALL BE AREA. TBLE MATERIALS NOT BE STOREI	E SITE AT ANY TIME. DATIONS SHALL BE FILLED WITH ROZEN MATERIALS, ROOTS, AND USED. DEMOLITION MATERIALS FROZEN MATERIAL, TRASH, AND EEDING SIX (6) INCHES IN LOOSE E GRADED TO MEET ADJACENT SHALL BE REMOVED FROM THE D, SOLD, OR BURNED ON SITE L FEDERAL STATE AND LOCAL			UCMUUUUU <u> <u> </u> ENGINEERING I </u>	RY PARKWAY WEST ING 12, SUITE 103	PENNSYLVANIA 19422 215) 798-4450 NDEPENDENCE.ENGINE evt vy anta 🔶 Massa
18.	BY AUTHORIT WATERING, T MINIMIZE THE AND DEBRIS EXISTENCE A	IES HAVING JURISDICTION. EMPORARY ENCLOSURES, AND/OR OTHER APPROP AMOUNT OF DUST LEAVING THE DEMOLITION SITE. CAUSED BY DEMOLITION OPERATIONS. ALL ADJAC THE COMMENCEMENT OF WORK.	PRIATE METH ADJACENT I CENT AREAS	HODS SHALL BE MPROVEMENTS S S SHALL BE RETI	EMPLOYED AS NECESSARY TO HALL BE CLEANED OF ALL DUST JRNED TO THE CONDITIONS IN			D S		ERING
16. 17.	BUILDINGS, AI EXPLOSIVES S DEMOLITION S STREETS, WA HAVING JURIS	ND INJURY TO PERSONS. SHALL NOT BE USED WITHOUT PRIOR WRITTEN CONSE SHALL BE PERFORMED TO MINIMIZE INTERFERENCE LKS, AND OTHER WAYS SHALL NOT BE CLOSED WITH SDICTION ALTERNATE TRAVEL ROUTES SHALL BE PRO	NT OF OWNE WITH ROAD OUT PRIOR	ER AND AUTHORIT S, STREETS, WAL WRITTEN CONSEN IND CLOSED OR C	IES HAVING JURISDICTION. KS, AND OTHER WAYS. ROADS IT OF OWNER AND AUTHORITIES DESTRUCTED WAYS IF REQUIRED	REV DATI	1 05/11/20	2 07/24/20		
15.	DEMOLISHED. BELOW THE G SEALED WITH COVERED PA PEDESTRIANS	ALL OTHER FOUNDATION SYSTEMS SHALL BE DEMO GRADE OF PROPOSED PAVEMENT. BASEMENT FLOOR CONCRETE. ASSAGEWAYS SHALL BE ERECTED ADJACENT TO G. ALL DEMOLITION OPERATIONS SHALL BE PERFORM	OLISHED TO SLABS SHAL AREAS OF MED TO PRE	A DEPTH OF NO I IL BE BROKEN. AL DEMOLITION TO EVENT DAMAGE T	LESS THAN TWELVE (12) INCHES L OPEN UTILITY LINES SHALL BE PROVIDE SAFE PASSAGE TC O STRUCTURES AND ADJACENT	E DESCRIP	023 REVISED	023 REVISED		
12. 13. 14.	DEMOLITION E TO AVOID THE INTERIOR AND AND COLLAPS ALL FOUNDAT	EQUIPMENT SHALL BE LOCATED SPARSELY THROUGHO IMPOSITION OF EXCESSIVE LOADS ON REMAINING ST D EXTERIOR SHORING, BRACING, AND/OR SUPPORTS SE OF STRUCTURES TO BE DEMOLISHED AND ADJACEN FION WALLS, FOOTINGS, AND OTHER MATERIALS WIT	OUT THE STF RUCTURAL F SHALL BE P IT FACILITIES THIN THE FO	RUCTURE AND MA ELEMENTS. ROVIDED TO PRE S. OTPRINT OF THE	TERIALS REMOVED IN A MANNER VENT MOVEMENT, SETTLEMENT FUTURE STRUCTURE SHALL BE	NOIL	PER MULTIPLE	PER MULTIPLE		
9. 10. 11.	STRUCTURAL INDUSTRY-AC CONCRETE SI	MEMBERS SHALL BE REMOVED AND LOWERED TO CEPTED METHODS. LABS-ON-GRADE SHALL BE BROKEN UP UNLESS OTHER	DNS. D THE GRO RWISE DIREC	UND USING HOIS	TS, DERRICKS, AND/OR OTHER		REVIEW LE	REVIEW LE		
8.	ALL DEMOLITI	ON WORK SHALL BE COMPLETED ON A GIVEN FLOOR RS ARE DISTURBED.	OF A BUILDI	NG BEFORE ANY	STRUCTURAL ELEMENTS OF THE		ITERS	TERS		
5. 6.	CONTRACTOR SHALL BE IDE ALL DEMOLITI	R IS RESPONSIBLE FOR FIELD VERIFYING ANY EXISTIN NTIFIED TO THE ENGINEER IN WRITING PRIOR TO COM ON SHALL BE PERFORMED IN STRICT ACCORDANCE W	NG SITE IMP MENCEMEN /ITH ALL FED	ROVEMENTS AND OF CONSTRUCTI ERAL, STATE, AND	UTILITIES. ALL DISCREPANCIES ON. DOCAL REGULATIONS.					
4.	CONTRACTOR	R IS RESPONSIBLE TO CALL DIG GEORGIA FOR UTILITY	MARK OUT F	RIOR TO ANY EXC	AVATION.					

GENERAL DEMOLITION NOTES:

883.8 **+**

1. BASE MAP AND BOUNDARY INFORMATION SHOWN HERON TAKEN FROM A PLAN ENTITLED "ALTA/NSPS LAND TITLE SURVEY"

2. BY GRAPHICAL PLOTTING ONLY AND PER FEMA FIRM PANEL 13077C0291D FOR THE CITY OF SENOIA AND COWETA COUNTY, GA,

PREPARED BY REFERENCE POINT LAND SURVEYING, OF FORSYTH GEORGIA, DATED 04/05/2020.

3. THERE ARE NO MAPPED WETLANDS OR STATE WATERS LOCATED ON TRACT A-1.

DATED 2/6/2013, TRACT A-1 LIE WITHIN FLOOD HAZARD ZONE "X" (AREAS OF MINIMAL FLOOD HAZARD).



SI	TE PLAN NOTES:	ВΥ	APR	APR			
1.	PROPERTY: 8075 WELLS STREET (GEORGIA HIGHWAY 16) SENOIA, GA 30276 COWETA COUNTY						
	PARCEL ID: 163 1278 022 TRACT: A-1 DISTRICT: 4 AREA: 1.986 AC. ZONING USE: GC (GENERAL COMMERCIAL)						
2.	OWNER/APPLICANT: WELLSTAR HEALTH SYSTEM 793 SAWYER ROAD MARIETTA, GA 30062 PHONE: (470) 644-0265 EMAIL: MILVIA.GONZALES@WELLSTAR.ORG		E REVIEW LETTERS	E REVIEW LETTERS			
3.	ENGINEER: INDEPENDENCE ENGINEERING LLC 1777 SENTRY PARKWAY WEST BUILDING 12, SUITE 103 BLUE BELL, PENNSYLVANIA, 19422 PHONE: (215) 798-4450 EMAIL: INDEPENDENCE@INDEPENDENCE.ENGINEERING	DESCRIPTION	REVISED PER MULTIPLI	REVISED PER MULTIPLI			
4.	ARCHITECT: ALIGN DESIGN ASSOCIATES LLC 145 CHURCH STREET MARIETTA, GA 30060 PHONE: (404) 424-4488	REV DATE	1 05/11/2023	2 07/24/2023			
5.	SURVEYOR: REFERENCE POINT LAND SURVEYING, LLC 5 NORTH LEE STREET PO BOX 824 FORSYTH, GA 31029 PHONE: (487) 365-9809	Π					NEERING ACHUSETTS
6.	ALL CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO SUBMITTING A BID, AND SHALL BE ADJUSTED IF NECESSARY. NO ADDITIONAL COMPENSATION WILL BE GRANTED AFTER A BID AWARD FOR ANY EQUIPMENT, MATERIAL, OR LABOR REQUIRED TO MODIFY THE DESIGN TO MATCH FIELD CONDITIONS. BASE MAP AND BOUNDARY INFORMATION SHOWN HERON TAKEN FROM A PLAN ENTITLED "ALTA/NSPS LAND TITLE SUBVEY"			UCNU VEERING	VAY WEST	ITE 103 VANIA 1942 50	INCE.ENGI
8.	PREPARED BY REFERENCE POINT LAND SURVEYING, OF FORSYTH GEORGIA, DATED 04/05/2020. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUESTED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS PROVIDED BY ALL APPLICABLE PERMITTING AUTHORITIES	*		ENGIN	TRY PARKV	DING 12, SU , PENNSYL' (215) 798-445	NDEPENDE NSYLVANIA
9.	ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL COVERNING AUTHORITY	*	~	5	SEN	BELL,	CE@I
10.	STANDARDS OF THE LOCAL GOVERNING AUTHORITY. SITE CLEARING SHALL INCLUDE THE LOCATION AND REMOVAL OF ALL UNDERGROUND TANKS, PIPES, VALVES, ETC. CONTRACTOR		* +	\mathbf{Z}^{+}	1777	EUE]	IDEN
11.	SOLID WASTE SHALL BE DISPOSED OF BY CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.		0			В	EPEN RSEY
12. 13.	ALL UNSUITABLE EXCAVATED MATERIAL SHALL BE TRANSPORTED TO AN APPROVED DISPOSAL LOCATION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING REQUIRED DURING CONSTRUCTION. SHORING SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH CURRENT OSHA STANDARDS. CONTRACTOR SHALL MAKE SUFFICIENT ADDITIONAL PROVISIONS TO ENSURE STABILITY OF ALL CONTIGUOUS AND ADJACENT STRUCTURES, AS FIELD CONDITIONS MAY DICTATE.			•			INDI NEW JEI
14.	CONTRACTOR AND ANY SUBCONTRACTORS SHALL CARRY STATUTORY WORKERS' COMPENSATION INSURANCE, EMPLOYERS' LIABILITY INSURANCE, AND COMMERCIAL GENERAL LIABILITY INSURANCE AT REQUIRED LIMITS OF COVERAGE. ALL CONTRACTORS SHALL HAVE CGL POLICIES ISSUED TO INCLUDE INDEPENDENCE ENGINEERING LLC, WITH ITS SUBCONSULTANTS LISTED AS ADDITIONAL INSURED. ALL CONTRACTORS MUST FURNISH INDEPENDENCE ENGINEERING LLC WITH CERTIFICATES OF INSURANCE PRIOR TO THE COMMENCEMENT OF WORK, AND UPON RENEWAL OF EACH POLICY DURING THE TERM OF CONSTRUCTION. CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS INDEPENDENCE ENGINEERING LLC AND ITS SUBCONSULTANTS AGAINST ANY DAMAGES, LIABILITIES, OR COSTS, INCLUDING REASONABLE ATTORNEYS' FEES AND DEFENSE COSTS CONNECTED WITH THE PROJECT, INCLUDING ALL CLAIMS BY CONTRACTOR'S EMPLOYEES, TO THE FULLEST EXTENT PERMITTED BY LAW.	SN				OIA	
15.	NEITHER THE PROFESSIONAL ACTIVITIES OF INDEPENDENCE ENGINEERING LLC NOR THE PRESENCE OF ITS EMPLOYEES AT THE PROJECT SITE SHALL RELIEVE THE CONTRACTOR OF ITS DUTIES, OBLIGATIONS, AND/OR RESPONSIBILITIES, INCLUDING BUT NOT LIMITED TO CONSTRUCTION MEANS, METHODS, SEQUENCING AND/OR PROTOCOLS NECESSARY FOR PERFORMING, COORDINATING, AND/OR SUPERINTENDING THE WORK IN ACCORDANCE WITH THE PROJECT DOCUMENTS AND APPLICABLE HEALTH AND SAFETY REGULATIONS. THE CONTRACTOR SHALL BEAR SOLE RESPONSIBILITY FOR SITE SAFETY PLANNING, PROVISIONING, IMPLEMENTATION, AND MAINTENANCE. INDEPENDENCE ENGINEERING LLC BEARS NO AUTHORITY TO EXERCISE CONTROL OVER CONTRACTOR OR ITS EMPLOYEES IN CONNECTION WITH CONSTRUCTION.	T SITE PLA				INC SEN	JF SENOIA, IA 30276
16.	INDEPENDENCE ENGINEERING LLC SHALL REVIEW AND TAKE APPROPRIATE ACTION ON SUBMITTALS TO BE SUBMITTED BY CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PRODUCT, DATA, AND MATERIAL SAMPLES. INDEPENDENCE ENGINEERING LLC SHALL REVIEW SUBMITTALS ONLY FOR CONSISTENCY WITH THE DESIGN DRAWINGS. SUBMITTALS SHALL NOT BE REVIEWED FOR CONSTRUCTION MEANS AND METHODS, COORDINATION OF TRADES, OR SITE SAFETY, WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. INDEPENDENCE ENGINEERING LLC SHALL NOT BE LIABLE FOR DEVIATIONS OR THE RESULTS THEREFROM FROM THE APPROVED CONSTRUCTION DRAWINGS, UNLESS SAID DEVIATIONS ARE PROVIDED IN WRITING BY THE CONTRACTOR PRIOR TO IMPLEMENTATION, AND APPROVED IN	ELOPMEN'		E PLAN	FOR	H SYSTEM,	VAY 16, CITY (JNTY, GEORG
17.	WRITING BY INDEPENDENCE ENGINEERING LLC. THE CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE NOTES THEREON, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM INDEPENDENCE ENGINEERING LLC AND THE PROJECT OWNER. SHOULD THE CONTRACTOR DEVIATE FROM THE APPROVED PROJECT DOCUMENTS, HE SHALL BEAR SOLE RESPONSIBILITY FOR FINES, PENALTIES, AND ALL COMPENSATORY AND PUNITIVE DAMAGES RESULTING THEREFROM. IN SUCH CASE, THE CONTRACTOR SHALL INDEMNIFY AND HOLD INDEPENDENCE ENGINEERING LLC HARMLESS AGAINST ANY DAMAGES, LIABILITIES, OR COSTS, INCLUDING DESCRIPTION FROM THE APPROVED PROJECE OSTS CONNECTED WITH THE PROJECT. INCLUDING ALL CLAIMS PY	AND DEV		SIT		R HEALTI	XGIA HIGHV DWETA COU
19	CONTRACTOR'S EMPLOYEES, TO THE FULLEST EXTENT PERMITTED BY LAW.					STA	CC
19.	MEDIATION UNLESS THE PARTIES MUTUALLY AGREE OTHERWISE. THE CONTRACTOR AND ITS SUBCONTRACTORS SHALL INCLUDE A PROVISION IN THEIR CONTRACTS WITH THEIR SUBCONTRACTORS, SUBCONSULTANTS, AND SUPPLIERS, PROVIDING FOR MEDIATION AS THE PRIMARY METHOD OF DISPUTE RESOLUTION BETWEEN THOSE PARTIES.	FINA	7 7 7 7			MELL &)
20.	ALL TRAFFIC SIGNS AND STRIPING SHALL FOLLOW THE REQUIREMENTS SPECIFIED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS," PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION, INCLUDING LOCALLY						
21.	ADOPTED REVISIONS THERETO. BUILDING SETBACKS SHOWN HEREON ARE MEASURED FROM THE EXTERIOR FACE OF BUILDING WALLS. SETBACKS DO NOT ACCOUNT FOR ROOF OVERHANGS, ORNAMENTAL ARCHITECTURAL ELEMENTS, SIGNAGE, OR OTHER EXTERIOR EXTENSION UNLESS OTHERWISE NOTED.						
22. 23.	LOCATION OF ALL EXISTING AND PROPOSED SERVICES AND CONNECTION POINTS ARE APPROXIMATE AND MUST BE CONFIRMED INDEPENDENTLY IN THE FIELD AND WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. ALL DISCREPANCIES SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY "GEORGIA 811" 72 HOURS PRIOR TO ANY EXCAVATION ON SITE.		()	15	30	
24	CONTRACTOR SHALL ALSO NOTIFY LOCAL WATER AND SEWER AUTHORITIES TO MARK OUT THEIR SYSTEMS. THE CONTRACTOR SHALL COMPLETELY FILL BELOW-GRADE AREAS AND VOIDS RESULTING FROM THE DEMOLITION OF		GR/	APHIC	SCALE	: 1" = 3	30'
	STRUCTURES AND FOUNDATIONS WITH SOIL MATERIALS CONSISTING OF STONE, GRAVEL, AND SAND, FREE FROM DEBRIS, TRASH, FROZEN MATERIALS, ROOTS, AND OTHER ORGANIC MATTER. STONES SHALL NOT BE LARGER THAN 6 INCHES IN ANY DIMENSION.			PR 02	OJEC	Т З	
0-	DEMOLITION MATERIALS MAY NOT BE USED AS FILL. FILL MATERIALS SHALL BE PLACED IN HORIZONTAL LAYERS NOT EXCEEDING 6 INCHES IN LOOSE DEPTH CONTOURS AND TO PROVIDE SURFACE DRAINAGE.	┝		E	DATE	-	
25.	ALL DEBRIS, RUBBISH, SALVAGE, HAZARDOUS AND COMBUSTIBLE MATERIALS SHALL BE REMOVED AT THE EARLIEST POSSIBLE TIME. REMOVED MATERIALS MAY NOT BE STORED, SOLD, OR BURNED ON SITE. HAZARDOUS AND COMBUSTIBLE MATERIALS SHALL BE REMOVED IN ACCORDANCE WITH PROCEDURES ADOPTED BY THE LOCAL FIRE DEPARTMENT AND OTHER	<u> </u>	SC /	09	/15/2	2 • • ¶	A/NI
26.	JURISDICTIONAL AGENCIES. PROPOSED DEVELOPMENT SIGNAGE IS SHOWN FOR REFERENCE ONLY. A SEPARATE PERMIT SHALL BE REQUIRED FOR ALL		1" =	30'		JEH	H
27.	SIGNAGE EXCEPT REGULATORY STREET SIGNAGE. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST	D	ESIC A I	GNED PR		CHEC IW	KED T

28. ALL STREETLIGHTS WITH IN THE RIGHT-OF-WAY OF TUCKER ROAD SHALL UTILIZE DECORATIVE LIGHT POLES AND FIXTURES CONSISTENT WITH THE DESIGN ADOPTED BY THE CITY OF SENOIA FOR THE OVERLAY. THE LIGHT SOURCE SHALL BE HIGH-PRESSURE SODIUM.

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GRADING NOTES: 1. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT REFERENCED IN THIS PLAN SET. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL SOFT, YIELDING, OR UNSUITABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE SOILS REPORT (IF ONE HAS BEEN PREPARED). ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM TEST D-1557. MOISTURE CONTENT AT THE TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 3% BELOW OPTIMUM. CONTRACTOR SHALL SUBMIT A COMPACTION REPORT PREPARED BY A QUALIFIED SOILS ENGINEER, REGISTERED IN THE STATE IN WHICH THE WORK IS PERFORMED, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT. 2. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO ENSURE 1% MINIMUM SLOPE AGAINST ALL ISLANDS,

- GUTTERS, CURBS, AND MINIMUM 1% SLOPE ON ALL CONCRETE AND ASPHALT SURFACES TO PREVENT PONDING. ANY DISCREPANCIES THAT MAY AFFECT THE PUBLIC SAFETY OF PROJECT COST MUST BE IDENTIFIED TO THE ENGINEER IN WRITING IMMEDIATELY. PROCEEDING WITH CONSTRUCTION WITH KNOWN DESIGN TOLERANCE DISCREPANCIES SHALL BE AT THE CONTRACTOR'S RISK.
- 3. SUBBASE MATERIAL FOR SIDEWALKS, CURB, OR ASPHALT SHALL BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD SUBBASE BE DEEMED UNSUITABLE, SUBBASE IS TO BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL COMPACTED TO 95% OPTIMUM DENSITY, AS DETERMINED BY MODIFIED PROCTOR METHOD. 4. IN CASE OF DISCREPANCIES BETWEEN THE PLANS, THE SITE PLAN SHALL SUPERSEDE. CONTRACTOR SHALL NOTIFY ENGINEER
- OF ANY CONFLICT IMMEDIATELY. 5. MAXIMUM CROSS-SLOPE OF 2.0% ON ALL SIDEWALKS, ACCESSIBLE PARKING SPACES, ACCESSIBLE ROUTES, AND ACCESSIBLE
- STRIPING AREAS. 6. OWNER SHALL RETAIN A QUALIFIED GEOTECHNICAL ENGINEER TO TEST PERMEABILITY AND PROVIDE CONSTRUCTION PHASE INSPECTIONS OF BASIN BOTTOM MATERIALS, INCLUDING INFILTRATION AND RETENTION BASINS. CONTRACTOR SHALL REMOVE UNSUITABLE OR OVERLY COMPACT SOIL OR ROCK MATERIAL AS NEEDED TO ACHIEVE REQUIRED PERMEABILITY AS DIRECTED BY THE OWNER'S GEOTECHNICAL ENGINEER, AND PLACED FILL SHALL HAVE A PERMEABILITY GREATER THAN OR EQUAL TO DESIGN CRITERIA.
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNER'S GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION TO CONFIRM MEANS, METHODS, AND MATERIALS, AND TO SCHEDULE REQUIRED INSPECTIONS.
- 8. CONTRACTOR IS RESPONSIBLE FOR AS-BUILT PLANS AND GRADE CONTROL UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.
- 9. PERMANENT SEEDING TO BE IN ACCORDANCE WITH LOCAL AND STATE EROSION AND SEDIMENT CONTROL STANDARDS. 10. REFER TO SITE PLAN NOTES FOR ADDITIONAL NOTES.





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EXISTING RIGHT-OF-WAY - EXISTING PROPERTY LINE ----- EXISTING EASEMENT EXISTING FENCE - EXISTING CONTOUR LINE - MAJOR EXISTING CONTOUR LINE - MINOR

EXISTING TREE

EXISTING UTILITY POLE EXISTING TELEPHONE MANHOLE EXISTING STORM MANHOLE EXISTING GAS VALVE EXISTING WATER VALVE PROPOSED STORM PIPE PROPOSED CONTOUR - MAJOR PROPOSED CONTOUR - MINOR PROPOSED STORM MANHOLE PROPOSED STORM INLET PROPOSED STORM INLET PROPOSED AREA LIGHT PROPOSED FLARED END SECTION PROPOSED SANITARY CLEANOUT PROPOSED WATER VALVE PROPOSED SEWER GATE VALVE PROPOSED BACKFLOW PREVENTER PROPOSED STOP SIGN (R1-1) PROPOSED DO NOT ENTER SIGN (R5-1) PEDESTRIAN CROSSING SIGN (R560-5) 25 MPH SIGN (R2-1) YIELD SIGN (R1-2)





- PROGRESS UP GRADIENT. PROPOSED CROSSINGS WITH EXISTING UTILITIES SHALL BE FIELD VERIFIED BY TEST PIT PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 3. CONTRACTOR IS RESPONSIBLE TO NOTIFY GEORGIA 811 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO ANY EXCAVATION ON SITE. CONTRACTOR SHALL ALSO NOTIFY LOCAL UTILITY AGENCIES AND AUTHORITIES TO MARK OUT FACILITIES PRIOR TO EXCAVATION.
- 4. EXACT LOCATIONS AND SERVICE SIZES OF BUILDING UTILITY CONNECTIONS ARE SHOWN ON THE ARCHITECTURAL PLANS. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION. 5. ALL PROPOSED UTILITIES TO BE INSTALLED UNDERGROUND UNLESS OTHERWISE SPECIFIED.
- 6. ALL SEWER AND WATER FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE CITY OF SENOIA DEPARTMENT OF PUBLIC WORKS.
- 7. WATER SERVICE MATERIALS SHALL BE SPECIFIED BY THE LOCAL WATER UTILITY. ENGINEER IS NOT RESPONSIBLE FOR THE COSTS ASSOCIATED WITH FEES AND APPURTENANCES REQUIRED BY THE LOCAL WATER UTILITY.
- 8. SANITARY SEWER MAINS SHALL BE SEPARATED FROM WATER MAINS BY AT LEAST TEN (10) FEET HORIZONTALLY. WHERE SUCH SEPARATION IS NOT POSSIBLE, SEWER AND WATER MAINS SHALL BE IN SEPARATE TRENCHES, WITH THE SEWER MAIN AT LEAST EIGHTEEN (18) INCHES BELOW THE WATER MAIN.
- 9. GAS, ELECTRIC, AND TELECOMMUNICATIONS LINES LOCATED HEREON ARE APPROXIMATE. ACTUAL LOCATION AND LAYOUT FOR GAS, ELECTRIC, AND TELECOMMUNICATIONS SHALL BE AT THE DIRECTION OF THE APPROPRIATE PROVIDER.
- 10. MEANS, METHODS, AND MATERIALS SHALL BE DONE IN ACCORDANCE WITH THE OWNER'S SPECIFICATIONS. IF SAID SPECIFICATIONS DO NOT EXIST, ALL MEANS, METHODS, AND MATERIALS SHALL BE PROVIDED CONSISTENT WITH ACCEPTED INDUSTRY STANDARDS



EXISTING RIGHT-OF-WAY EXISTING PROPERTY LINE EXISTING DOMESTIC WATER SERVICE EXISTING TREE EXISTING UTILITY POLE EXISTING TELEPHONE MANHOLE

EXISTING STORM MANHOLE EXISTING GAS VALVE EXISTING FIRE HYDRANT EXISTING WATER VALVE PROPOSED CONTOUR - MAJOR PROPOSED CONTOUR - MINOR PROPOSED GAS SERVICE PROPOSED UNDERGROUND ELECTRIC PROPOSED STORM MANHOLE PROPOSED STORM INLET PROPOSED STORM INLET PROPOSED FLARED END SECTION PROPOSED AREA LIGHT PROPOSED SANITARY CLEANOUT PROPOSED WATER VALVE PROPOSED SEWER GATE VALVE PROPOSED BACKFLOW PREVENTER PROPOSED STOP SIGN (R1-1) PROPOSED DO NOT ENTER SIGN (R5-1) PEDESTRIAN CROSSING SIGN (R560-5) 25 MPH SIGN (R2-1) YIELD SIGN (R1-2)

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	***	REV	DATE	DESCRIPTION
		1	05/11/2023	REVISED PER MULTIPLE REVIEV
	U MACHEMACNICE	2	07/24/2023	REVISED PER MULTIPLE REVIEV
	* * ENGINEERING LLC			
	1777 SENTRY PARKWAY WEST			
	BUILDING 12, SUILE 103 BLUE BELL, PENNSYLVANIA 19422			
	(215) 798-4450 Inidepenidenice@inidepenidenice engineering			
	NEW JERSEY * PENNSYLVANIA * MASSACHUSETTS			

FINAL LAND DEVELOPMENT SITE PLANS	UTILITY PLAN	FOR	WELLSTAR HEALTH SYSTEM, INC SENOL Georgia Highway 16, city of senola, coweta county, georgia 30276					
G		15 SCALE	30 E: 1" = 30'					
	PR	OJEC	CT 3					
DATE								
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1"	= 30'		MAS					
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Line No.	Line ID	Drainage Area	Runoff Coeff.	Inlet Time	Line Length	Line Slope	Line Size	Line Material	Inlet Eff. (10-yr)	Vel. Up	Vel. Dn	Gutter Spread	HGL Up (100-yr)	HGL Dn (100-yr)
		(ac)	(C)	(min)	(ft)	(%)	(in)		(%)	(ft/s)	(ft/s)	(ft)	(ft)	(ft)
1	102 to 100	0.100	0.98	5	8	0.65	24	HDPE	100	3.8	3.8	5.52	871.66	871.64
2	104 to 102	0.037	0.98	5	53	0.94	24	HDPE	100	3.51	3.51	2.15	871.92	871.81
3	106 to 104	0.048	0.98	5	56	0.50	24	HDPE	100	3.43	3.43	2.63	872.15	872.04
4	108 to 106	0.066	0.98	5	28	0.53	24	HDPE	100	3.29	3.29	4.08	872.32	872.27
5	110 to 108	0.069	0.98	5	63	0.51	24	HDPE	100	2.57	2.57	4.08	872.53	872.46
6	112 to 110	0.119	0.98	5	51	0.51	24	HDPE	100	2.37	2.37	11.45	872.65	872.6
7	114 to 112	0.278	0.62	5	60	1.01	15	HDPE	100	1.67	1.67	9.37	872.78	872.73
8	116 to 112	0.032	0.98	5	75	0.51	15	RCP	100	3.6	3.6	1.92	872.93	872.63
9	118 to 116	0.146	0.98	5	145	0.50	15	RCP	100	3.47	3.47	7.92	873.61	873.07
10	120 to 118	0.254	0.55	5	28	0.50	15	RCP	100	2.14	2.14	7.92	873.83	873.79
11	Roof Leader to 108	0.163	0.98	5	41	3.57	12	HDPE	100	3.98	2.42	20.43	873.36	872.46
12	302 to 300	0.133	0.98	5	104	0.50	18	RCP	100	2.57	1.91	8.4	874.57	874.5
13	304 to 302	0.161	0.98	5	41	1.00	18	RCP	93	2.19	1.28	5.85	874.66	874.68
14	200 to UG	0.363	0.77	5	36	0.00	24	HDPE	100	2.71	2.71	16.92	871.91	871.83
15	122 to 120	0.120	0.71	5	39	0.67	15	RCP	100	0.83	0.83	3.39	873.92	873.92







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3 ALIGNDESIGN/033 WELLSTAR SENOIA GA/PROJECT ENGINEERING/DRAWINGS/028033-S-PROF - ANDREW ROTH-2023-07-25





1"=30' Horizontal 1"=3' Vertical

	ВҮ	APR	APR							
	EV DATE DESCRIPTION	1 05/11/2023 REVISED PER MULTIPLE REVIEW LETTERS	2 07/24/2023 REVISED PER MULTIPLE REVIEW LETTERS							
	R		e nachenaence	* * ENGINEERING LLC	1777 SENTRY PARKWAY WEST	BLUE BELL, PENNSYLVANIA 19422	(215) 798-4450 INDEPENDENCE@INDEPENDENCE ENGINEERING	NEW JERSEY 🖈 PENNSYLVANIA 🖈 MASSACHUSETTS		
	FINAL L'AND DEVELOPMENT SITE PLANS		SANITARY PROFILES		FOR	WELLSTAR HEALTH SYSTEM, INC SENOIA	GEORGIA HIGHWAY 16, CITY OF SENOIA,	COWETA COUNTY, GEORGIA 30276		
	PROJECT 028-033									
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1"=30' Horizontal 1"=3' Vertical



	ВΥ	APR	APR					
	REV DATE DESCRIPTION	1 05/11/2023 REVISED PER MULTIPLE REVIEW LETTERS	2 07/24/2023 REVISED PER MULTIPLE REVIEW LETTERS					
	H * * *		Undependence	* * ENGINEERING LLC	1777 SENTRY PARKWAY WEST	BUILDING 12, SUITE 103 BLUE BELL, PENNSYLVANIA 19422	(215) 798-4450 INDEPENDENCE@INDEPENDENCE.ENGINEERING	NEW JERSEY * PENNSYLVANIA * MASSACHUSETTS
	FINAL LAND DEVELOPMENT SITE PLANS		TUCKER ROAD PLAN & PROFILE		FOR	WELLSTAR HEALTH SYSTEM, INC SENOIA	GEORGIA HIGHWAY 16, CITY OF SENOIA,	COWETA COUNTY, GEORGIA 30276
•	PROJECT 028-033 DATE 09/15/22 SCALE DRAWN AS NOTED JEH DESIGNED CHECKED APR JWJ							
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TYPICAL 50' ROW ROAD CROSS SECTION NTS





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- IN CASE OF DISCREPANCIES BETWEEN THE PLAN DETAILS AND LOCAL REQUIRED DETAILS, THE LOCAL REQUIRED DETAILS SHALL SUPERSEDE. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICT IF

ANY DETAILS NEEDED FOR BIDDING AND/OR CONSTRUCTION OF THIS JOB, SHOWN OR NOT SHOWN ON THESE PLANS, ARE TO BE IN ACCORDANCE WITH LOCAL MUNICIPAL, COUNTY, STATE, AND FEDERAL REGULATIONS AND STANDARDS. IF ANY DETAIL SHOWN ON THESE PLANS DOES NOT MEET THESE STANDARDS, IT IS THE CONTRACTORS' RESPONSIBILITY TO BID AND/OR CONSTRUCT THE

ВΥ	APR	APR							
DATE DESCRIPTION	05/11/2023 REVISED PER MULTIPLE REVIEW LETTERS	07/24/2023 REVISED PER MULTIPLE REVIEW LETTERS							
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× × *		Undependence	* * ENGINEERING LLC	1777 SENTRY PARKWAY WEST	BLUE BELL, PENNSYLVANIA 19422	(215) 798-4450 INDEPENDENCE@INDEPENDENCE.ENGINEERIN(NEW JERSEY * PENNSYLVANIA * MASSACHUSI		
FINAL LAND DEVELOPMENT SITE PLANS	FINAL LAND DEVELOPMENT SITE PLANS DETAIL SHEET C FOR WELLSTAR HEALTH SYSTEM, INC SENOIA, GEORGIA HIGHWAY 16, CITY OF SENOIA, COWETA COUNTY, GEORGIA 30276								
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GENERAL DETAIL NOTE:

- 1. ALL DETAILS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY.
- 2. DETAILS TO BE "OR EQUIVALENT".
- CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF LOCAL REQUIRED DETAILS TO COMPLETE THE 3.

DESIGN.

- IN CASE OF DISCREPANCIES BETWEEN THE PLAN DETAILS AND LOCAL REQUIRED DETAILS, THE LOCAL 4. REQUIRED DETAILS SHALL SUPERSEDE. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICT IF NEEDED.
- REFER TO PREVIOUS SHEETS FOR ADDITIONAL NOTES. 5.
- ANY DETAILS NEEDED FOR BIDDING AND/OR CONSTRUCTION OF THIS JOB, SHOWN OR NOT SHOWN 6. ON THESE PLANS, ARE TO BE IN ACCORDANCE WITH LOCAL MUNICIPAL, COUNTY, STATE, AND FEDERAL REGULATIONS AND STANDARDS. IF ANY DETAIL SHOWN ON THESE PLANS DOES NOT MEET THESE STANDARDS, IT IS THE CONTRACTORS' RESPONSIBILITY TO BID AND/OR CONSTRUCT THE APPROPRIATE STANDARD DETAILS.

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BY	APR	APR							
DESCRIPTION	3 REVISED PER MULTIPLE REVIEW LETTERS	3 REVISED PER MULTIPLE REVIEW LETTERS							
DATE	05/11/2023	07/24/2023							
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***		UNDEPENDENCE	* * ENGINEERING LLC	1777 SENTRY PARKWAY WEST	BUILDING 12, SUITE 103 BLUE BELL, PENNSYLVANIA 19422	(215) 798-4450 INDEPENDENCE@INDEPENDENCE ENGINEERING	NEW JERSEY * PENNSYLVANIA * MASSACHUSET		
FINAL LAND DEVELOPMENT SITE PLANS		DETAIL SHEET E		FOR	WELLSTAR HEALTH SYSTEM, INC SENOIA	GEORGIA HIGHWAY 16, CITY OF SENOIA,	COWETA COUNTY, GEORGIA 30276		
PROJECT 028-033 DATE 09/15/22									
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	DESIGNED APR JWJ OR CHECKED JWJ No. PEO46186 POCTOSIONA Mul Vernetur E. SNUDE 07/24/2023								
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GENERAL DETAIL NOTE:

- 1. ALL DETAILS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY.
- 2. DETAILS TO BE "OR EQUIVALENT".
- 3. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF LOCAL REQUIRED DETAILS TO COMPLETE THE
- DESIGN.
 4. IN CASE OF DISCREPANCIES BETWEEN THE PLAN DETAILS AND LOCAL REQUIRED DETAILS, THE LOCAL REQUIRED DETAILS SHALL SUPERSEDE. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICT IF NEEDED.
- 5. REFER TO PREVIOUS SHEETS FOR ADDITIONAL NOTES.
- 6. ANY DETAILS NEEDED FOR BIDDING AND/OR CONSTRUCTION OF THIS JOB, SHOWN OR NOT SHOWN ON THESE PLANS, ARE TO BE IN ACCORDANCE WITH LOCAL MUNICIPAL, COUNTY, STATE, AND FEDERAL REGULATIONS AND STANDARDS. IF ANY DETAIL SHOWN ON THESE PLANS DOES NOT MEET THESE STANDARDS, IT IS THE CONTRACTORS' RESPONSIBILITY TO BID AND/OR CONSTRUCT THE APPROPRIATE STANDARD DETAILS.

APPROPRIATE STANDARD DETAILS.

THESE STANDARDS, IT IS THE CONTRACTORS' RESPONSIBILITY TO BID AND/OR CONSTRUCT THE

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	MATERIAL LOCATION	DESCRIPTION	A/ C
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.	
С	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.	3, 357, 4, 46
В	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	
А	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	
ASE NOTE:	•		

GENERAL DETAIL NOTE:

- ALL DETAILS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY.
- DETAILS TO BE "OR EQUIVALENT".
- CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF LOCAL REQUIRED DETAILS TO COMPLETE THE DESIGN.

No. PE046186

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- IN CASE OF DISCREPANCIES BETWEEN THE PLAN DETAILS AND LOCAL REQUIRED DETAILS, THE LOCAL 4. REQUIRED DETAILS SHALL SUPERSEDE. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICT IF NEEDED.
- REFER TO PREVIOUS SHEETS FOR ADDITIONAL NOTES 5

ANY DETAILS NEEDED FOR BIDDING AND/OR CONSTRUCTION OF THIS JOB, SHOWN OR NOT SHOWN ON THESE PLANS, ARE TO BE IN ACCORDANCE WITH LOCAL MUNICIPAL, COUNTY, STATE, AND FEDERAL REGULATIONS AND STANDARDS. IF ANY DETAIL SHOWN ON THESE PLANS DOES NOT MEET THESE STANDARDS, IT IS THE CONTRACTORS' RESPONSIBILITY TO BID AND/OR CONSTRUCT THE APPROPRIATE STANDARD DETAILS.

3 ALIGNDESIGN/033 WELLSTAR SENOIA GA/PROJECT ENGINEERING/DRAWINGS/028033-S-GDOT - ANDREW ROTH-2023-07-25

LIGNDESIGN/033 WELLSTAR SENOIA GA/PROJECT ENGINEERING/DRAWINGS/028033-S-GDOT - ANDREW ROTH-2023-07

<form></form>	SOIL EROSION AND SEDIMENT CON	TROL NOTES:	ВΥ	APR	APR			
<form></form>	OVERALL SITE AREA: 1.986 AC. TOTAL DISTURBED AREA: 2.75 AC.							
<form></form>	RECEIVING WATER(S): DEAD OAK CREEK							
<form></form>	24-HOUR CONTACT: MILVIA GONZALEZ PHONE: (470) 644-0265							
<form></form>	EMAIL: MILVIA.GONZALEZ@WELLSTA	NR.ORG						
<form></form>	NATIONAL RESPONSE CENTER (NRC) SPILL RESPONSE: 1	-800-424-8802		ERS	ERS			
<form></form>	THE AREA OF THE SITE IS 1.986 AC. THE SURFACE WATE THE RECEIVING WATER IS SUPPORTING OF WARM W	R DRAINAGE AREA FROM THE SITE IS LESS THAN 5 SQUARE MILES AND ATER FISHES. USING THE APPENDIX B RATIONALE THE ALLOWABLE		V LETTI	V LETTI			
<form></form>	TURBIDITY IS 75 NTU AT THE SAMPLING POINT. THE DESIGN PROFESSIONAL WHO PREPARED THE ES&F STORAGE REQUIREMENTS AND PERIMETER CONTROL BMI	C PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT		REVIEV	REVIEV			
	NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITH THE POINT OF WRESTED VEGETATION OR WITHIN 25-FE	HIN 25 OR 50-FOOT UNDISTURBED STREAM BUFFER AS MEASURED FROM TET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE		LTIPLE	LTIPLE			
<form></form>	JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST AC AMENDMENTS/REVISIONS TO THE ES&PC PLAN HAVE A SI	QUIRING THE NECESSARY VARIANCES AND PERMITS. GNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE	NOI	PER MU	PER MU			
	WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATE	RS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.	SCRIPT	[VISED]	I VISED 1			
	MEASURES AND PRACTICES PRIOR TO LAND DISTURBING EROSION CONTROL MEASURES WILL BE MAINTAINED AT A	ACTIVITIES. LL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT	ID I)23 RF)23 RI			
	PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDIT IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SO	TONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE JRCE.	DATI	05/11/20	07/24/20			
<form></form>	TEMPORARY SEEDING. ALL TEMPORARY AND PERMANENT SEEDING SHALL BE I	N ACCORDANCE WITH APPLICABLE REGULATIONS AND THE APPROVED	REV	1	2			-
<form></form>	LANDSCAPE PLANS THAT ACCOMPANY THIS PLAN. STORMWATER MANAGEMENT FACILITIES, OUTLET STRU	CTURES, AND TEMPORARY SEDIMENT POND FEATURES ARE TO BE						-
	CONSTRUCTED AND FULLY OPERATIONAL PRIOR TO ANY O DEVELOPER IS TO CLEAN OUT ACCUMULATED SILT IN DI HAVE BEEN STABILIZED TO MATCH THE INTENDED DESIGN	OTHER CONSTRUCTION OR GRADING. ETENTION POND AT END OF CONSTRUCTION WHEN DISTURBED AREAS				2		
	EQUENCE OF CONSTRUCTION	(PHASE 1):		(び	1 2 L	422	
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NEIL E SANDER LEVEL II CERTIFIED DESIGN PROFESSIONAL CERTIFICATION NUMBER: 0000102294 ISSUED: 04/21/2023 EXPIRES: 04/21/2026

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 Including GRADE, ANEAS TO BE IMPROVED. INSTALL PIPE RUNGS) AS NEEDED. INSTALL EXCAVATED INLET SEDIMENT TARSES ON ALL INCLETS. (2) MONTHS TO 6 MONTHS) BEGIN CONSTRUCTION OF TUCKER ROAD. ONCE CONSTRUCTION OF TUCKER ROAD HAS PROGRESSED TO BASE COURSE RECOATE CONSTRUCTION FIR TRANSMICTION FOR PROPOSED BUILDING FOUNDATION. CONSTRUCT THE FOUNDANCE WITH THE APPROVED ARCHITECTURAL PLANS. (3) MONTHS TO 8 MONTHS) INSTALL UTLITES AS SHOWN. (3) MONTHS TO 7 MONTHS) START TO INSTALL PARED RAKING AREAS AS ALLOWED. (6) MONTHS TO 10 MONTHS) CONSTRUCT PROPOSED BUILDING. (7) MONTHS TO 12 MONTHS) CONSTRUCT PROPOSED BUILDING. (7) MONTHS TO 12 MONTHS) "ORTIFICAL STAGE" START EXCAVATION AND CONSTRUCTION THE SUBBURFACE DRY EXTENDED DETENTION BASIN. ENSURE TO AVOID EXCESSIVE COMPACTION IN THE AREA OF THE SUBSURFACE BASIN. ONCE 99% OF THE DRAINAGE AREA IS STABILIZED AND IN FINAL CONDITION THE SUBJERACE DRY EXTENDED DETENTION BASIN. ENSURE TO AVOID EXCESSIVE COMPACTION IN THE AREA. OF THE SUBSURFACE BASIN. ONCE 99% OF THE DRAINAGE AREA IS STABILIZED AND IN FINAL CONDITION ITHE EXCAVATED INLET SEMENT TO AN MONTHS) INSTALL THE REMAINING PARKING AREAS AS ALLOWED. (6) MONTHS TO 14 MONTHS) INSTALL THE REMAINING PARKING AREAS AS ALLOWED. (6) MONTHS TO 14 MONTHS) INSTALL THE REMAINING PARKING AREAS AS ALLOWED. (6) MONTHS TO 14 MONTHS) INSTALL THE REMAINING PARKING AREAS AS ALLOWED. (6) MONTHS TO 14 MONTHS) INSTALL THE REMAINING PARKING BAREAS AS ALLOWED. (6) MONTHS TO 14 MONTHS) INSTALL THE REMAINING PARKING BAREAS AS ALLOWED. (6) MONTHS TO 14 MONTHS) INSTALL THE DISCRETION OF ANY AUTHORIZED AGENCY.) 	REV DATE DESCRIPTION	1 05/11/2023 REVISED PER MULTIPLE REVIEW LETTERS	2 07/24/2023 REVISED PER MULTIPLE REVIEW LETTERS		
 START TO INSTALL PAVED PARKING AREAS AS ALLOWED. (6 MONTHS TO 10 MONTHS) CONSTRUCT PROPOSED BUILDING. (7 MONTHS TO 12 MONTHS) ""CRITICAL STAGE": START EXCAVATION AND CONSTRUCTION OF THE SUBSURFACE DRY EXTENDED DIFFENTION BASIN. ENSURE TO AVOID EXCESSIVE COMPACTION IN THE AREA OF THE SUBSURFACE BASIN. ONCE 90% OF THE DRAINAGE AREA IS TRAILIZED AND IN FINAL CONDITION THE EXCAVATED INLET SEDIMENT TRAPS CAN BE DECOMMISSIONED AND FLOW DIRECTED TO THE SUBSURFACE BASIN. DECOMMISSION OF THE EXCAVATED INLET SEDIMENT TRAPS SHALL BE COORDINATED WITH THE APPLICABLE AGENCIES. (12 MONTHS TO 14 MONTHS) INSTALL THE REMAINING PARKING AREAS AS ALLOWED. (9 MONTHS TO 14 MONTHS) INSTALL THE REMAINING PARKING AREAS AS ALLOWED. (9 MONTHS TO 14 MONTHS) MONTHS ARE MEASURED FROM THE START OF CONSTRUCTION. MULTIPLE CONSTRUCTION ACTIVITIES CAN OCCUR TO ONCE AS LOGG AS ADEQUATE EROSION AND SEDIMENT CONTROL. MEASURES ARE INSTALLED AND WORKING "ROPERLY AND AT THE DISCRETION OF ANY AUTHORIZED AGENCY.) 	REV DATE DESCRIPTION	1 05/11/2023 REVISED PER MULTIPLE REVIEW LETTERS	2 07/24/2023 REVISED PER MULTIPLE REVIEW LETTERS		
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		a por a	MULCIUC NGINEERING LLC	ARKWAY WEST 12, SUITE 103	NSYLVANIA 19422
<u>NOTE</u> :	***	1. Achab	erueru	1777 SENTRY I BUILDING	BLUE BELL, PEN (215)
CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCE'S WHICH MAY AFFECT HIS OPERATION JURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO THE SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR GAS LINES OR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH. LEGEND 	E PLANS		, PLAN PHASE		- SENUIA
X X X X EXISTING FENCE	IENT SITE		DNTROL		EM, INC.
C C EXISTING CABLE/COMMS WIRE G G G G K G G G K G G G K G G G K G G G	OPN		Ц Ц С	OR	YSII V
W W EXISTING DOMESTIC WATER SERVICE SAN SAN EXISTING SANITARY PIPE EXISTING STORM PIPE EXISTING SOILS-TYPE BOUNDARY EXISTING SOILS-TYPE BOUNDARY EXISTING SONTARY MANHOLE Image: Construct The second seco	FINAL LAND DEVELO		SOIL EROSION & SEDIMEN		WELLSTAK HEALTH S
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PROPOSED STORM INLET PROPOSED AREA LIGHT PROPOSED TREELINE PROPOSED FORCE MAIN E PROPOSED UNDERGROUND ELECTRIC PROPOSED STORM PIPE		SCA	02 I 09 ALE	28-033 DATE 9/15/22 DF	RAV
100 PROPOSED CONTOUR - MAJOR 101 PROPOSED CONTOUR - MINOR SF SF LOD LOD LOD LOD	DE	l" = ESIG AP	30' GNEC PR	CH	API ECH JW
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SEQUENCE OF CONSTRUCTION	(PHASE 3) [.]	ВΥ	APR	APR			
 FINISH GRADE THE SITE. INSTALL SURFACE COURSE OF PA REPLAT TOPSOIL. STABILIZE AND SEED EXPOSED AREAS. (REMOVE PERIMETER CONTROLS. (15 MONTHS TO 16 MONTH INSTALL FINAL LANDSCAPING/SEEDING. (15 MONTHS TO 16 	VEMENT. (14 MONTHS TO 15 MONTHS) (14 MONTHS TO 15 MONTHS) HS) MONTHS)						
(MONTHS ARE MEASURED FROM THE START OF CONSTRUCTIO AT ONCE AS LONG AS ADEQUATE EROSION AND SEDIMENT O PROPERLY AND AT THE DISCRETION OF ANY AUTHORIZED AGEI	N. MULTIPLE CONSTRUCTION ACTIVITIES CAN OCCUR CONTROL MEASURES ARE INSTALLED AND WORKING NCY.)						
		DATE DESCRIPTION	05/11/2023 REVISED PER MULTIPLE REVIEW LETTERS	07/24/2023 REVISED PER MULTIPLE REVIEW LETTERS			
		REV	1	7			
NOTE:		***		C MUCHCMUCNUCC	1777 SENTRY PARKWAY WEST RITE DING 12 SUITE 103	BLUE BELL, PENNSYLVANIA 19422 (215) 798-4450 INDEPENDENCE@INDEPENDENCE.ENGINEERING	NEW JERSEY 🖈 PENNSYLVANIA 🖈 MASSACHUSETT
THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDER PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVE SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND A DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY A PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR LEGEND $\begin{array}{c} & & & & & \\ & & & & \\ \hline \end{array}$	RGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE ECORDS. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE ICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR ND OVERHEAD INTERFERENCE'S WHICH MAY AFFECT HIS OPERATION RECAUTIONS TO AVOID DAMAGE TO THE SAME. THE CONTRACTOR & LINES OR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL R ALL COST AND LIABILITY IN CONNECTION THEREWITH.	FINAL LAND DEVELOPMENT SITE PLANS		SOIL EROSION & SEDIMENT CONTROL PLAN PHASE 3	FOR	WELLSTAR HEALTH SYSTEM, INC SENOIA GEORGIA HIGHWAY 16, CITY OF SENOIA, COMFTA COLINITY CEOPCIA 20276	COWEIA COUNTI, GEORGIA 302/0
G ~ 1 ~ 2 ~ 3 ~ 4 ~ 5 ~	PROPOSED GAS METER PROPOSED FLARED END SECTION PROPOSED STOP SIGN (R1-1) PROPOSED DO NOT ENTER SIGN (R5-1) PEDESTRIAN CROSSING SIGN (R560-5) 25 MPH SIGN (R2-1) YIELD SIGN (R1-2) PROPOSED STORM INLET PROPOSED STORM INLET		(GR/	APHIC S	15 SCALE: OJECT 8-033	30 1" = 30'	
FM FM E 100 101 SF SF LOD LOD JUII TP TP TP TP MdB	PROPOSED AREA LIGHT PROPOSED TREELINE PROPOSED FORCE MAIN PROPOSED UNDERGROUND ELECTRIC PROPOSED STORM PIPE PROPOSED CONTOUR - MAJOR PROPOSED CONTOUR - MINOR PROPOSED SILT FENCE PROPOSED SILT FENCE PROPOSED PRES LIMIT OF DISTURBANCE PROPOSED NDPES BOUNDARY PROPOSED TEMPORARY CONTOURS (MJR/MNR) PROPOSED TREE PROTECTION PROPOSED INLET PROTECTION EXISTING SOIL TYPE	D	SCA 1" = ESIC AI	09, ALE 30' GNED PR	DATE /15/22 CI STER	2 DRAWN APR HECKEL JWJ	
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STORM SEWER RIPRAP APRON OUTLET PROTECTION

	Temporary				100-yr	100-yr					RIPRA	Р		OPTIONA	L RENO
OUTLET	(E&S) or	Mannings	PIPE DIA	PIPE	Flow	FLOW	APF	RON		STONE		FIL	TER	MAT/G	ABION
No.	Permanent	'n'	Do	SLOPE	Q	V	La	W	SIZE	THICK	d50	THICK	SIZE	THICK	SIZE
	Condition		(in)	(ft/ft)	(cfs)	(fps)	(ft)	(ft)	(NSA No.)	(in)	(in)	(in)	(NSA No.)	(in)	(in)
FES 300	Permanent	0.012	18	0.0050	8.65	5.07	8	12.5	R-4	18	6	4	FS-2	6	3 to 6
OS 2	Permanent	0.012	15	0.0050	5.32	4.44	8	11.8	R-4	18	6	4	FS-2	6	3 to 6

CONCRETE WASHOUT SYSTEM N.T.S.

NOTES: WASH OUT AREA FOR CHUTES, TOOLS, HOPPERS, REAR OF THE VEHICLES AND WHEELS ONLY. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED. CONCRETE WASHOUT MUST BE RECYCLED NOT DISCARDED IN LANDFILL OR BURIED ON-SITE.

BLOCK AND GRAVEL PERSPECTIVE

BLOCK AND GRAVEL SECTION

NEIL E SANDER LEVEL II CERTIFIED DESIGN PROFESSION DATE

09/15/22

DESIGNED CHECKED

No. PE04618

DRAWN

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07/24/20

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CERTIFICATION NUMBER: 0000102294 ISSUED: 04/21/2023 EXPIRES: 04/21/2026

REPORTING:

- 1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORMWATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. SAMPLING REPORTS MUST BE SUBMITTED TO EPD USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.
- 2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:
- A. THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS; B. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND
- MEASUREMENTS
- C. THE DATE(S) ANALYSES WERE PERFORMED; D. THE TIME(S) ANALYSES WERE INITIATED;
- E. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;
- F. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR
- METHODS USED: G. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS O TAPES.
- ETC., USED TO DETERMINE THESE RESULTS;
- H. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU;" AND I. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.
- 3. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI

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 THIS PERMIT
- D. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
- E. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THIS PERMIT F. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN
- ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND
- G. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2). OF THIS 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.

INSPECTIONS:

- 1. EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING, THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
- 2. MEASURE AND RECORD RAINFALL WITHIN DISTURBED AREAS OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY. THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION
- 3. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION: AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
- 4. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION HAS BEEN SUBMITTED) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).
- 5. BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.
- 6. A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION SITE THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.

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 STORMWATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN IN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.
- 2. HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORMWATER DISCHARGE.

3. SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:

- A. FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL. THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS. IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION;
- B. IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL. THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST;

SAMPLING FREQUENCY CONT'D:

- INSTALLED AND MAINTAINED:

*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK

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 HOMES WHICH ARE NOT PART OF A SUBDIVISION OR PLANNED COMMON DEVELOPMENT UNLESS FIVE (5) ACRES OR MORE WILL BE DISTURBED. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY.

a. SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:

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

(2). A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT, HANDLE AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY 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) 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 WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND

(4). ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL.

a. SAMPLE TYPE. ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

(3). LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.

(4). MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED

(5). SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

a. SAMPLING POINTS.

(1). FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S). OR ALL OUTFALL(S). OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S), SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORMWATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:

(A). THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORMWATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORMWATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.

(B). THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORMWATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORMWATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC

(C). IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR

AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.

THE STORMWATER OUTFALL CHANNEL(S).

(D). CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORMWATER CHANNEL.

(E). THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.

(F). THE 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.

MATERIAL STORAGE AREAS:

ALL BUILDING MATERIAL, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHER MATERIAL SHALL BE COVERED WHEN NOT IN USE. PERMITTED COVERING PRACTICES INCLUDE SECURED PLASTIC SHEETING/TARPS OR TEMPORARY ROOFS, SECURELY FITTED LID OR INSIDE THE BUILDING ONCE THE ROOF HAS BEEN CONSTRUCTED, IF ALLOWED BY REGULATION.

C. AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED.

D. WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.A.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE; AND

E. EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.

(1). SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.

(2). SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.

SPILL CLEANUP AND CONTROL PRACTICES

ALL CONTAINERS SHALL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLES AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. THE STORAGE OF MATERIAL ON-SITE SHALL BE LOCATED AWAY FROM STATE WATERS, NATURAL DRAINS, AND STORM WATER DRAINAGE INLETS.

PETROLEUM BASED PRODUCTS:

- 1. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGO LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
- 2. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
- 3. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY, ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL. STATE, AND FEDERAL REGULATIONS.
- 4. ANY PETROLEUM PRODUCTS STORED IN THE EQUIPMENT STAGING AREA MUST BE IN CLOSED CONTAINERS IN GOOD CONDITION TO PREVENT LEAKING. MAINTENANCE ON EQUIPMENT SHOULD BE DONE WITH DRIP PANS, AND USED FLUIDS CAPTURED AND PROPERLY DISPOSED OF OFF THE SITE. FUEL TANKS WILL HAVE SECONDARY CONTAINMENT, AND ANY FUEL TANK OVER 1320 GALLONS, WILL HAVE A SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN DEVELOPED AND AVAILABLE AT THE SITE.
- 5. PAINTS/FINISHES/SOLVENTS

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

WASTE MATERIALS

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEE ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ON SITE. ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

DISTURBED AREA DUST CONTROL

CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADS, AND DEMOLITION SITES.

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.

METHODS & MATERIALS A. TEMPORARY METHODS

MULCHES. SEE STANDARD Ds1 - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY).

VEGETATION COVER. SEE STANDARD Ds2 - DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

TILLAGE. THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE WIND EROSION STARTS. BEGIN PLOWING ON WINDWARD SIDE OF THE SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH 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 FENCE, SNOW FENCES, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVENT CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION.

B. PERMANENT METHODS

PERMANENT VEGETATION. SEE STANDARDS Ds3 - DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION). EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE, PROTECT IF LEFT IN PLACE.

TOPSOILING. THIS ENTAILS COVERING THE SURFACE WITH LESS EROSIVE SOIL MATERIALS. SEE STANDARD Tp - TOPSOILING.

GEORGIA UNIFORM CODING SYSTEM

FOR SOIL EROSION AND SEDIMENTATION CONTROL PRACTICES GEORGIA SOIL AND WATER CONSERVATION COMMISSION

S.	TYP	ICAL	
GI	ES.	CAT	

arking areas and other on-site vehic ble conduit of heavy-duty fabric or oth A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope. Dn2 PERMANENT DOWNDRAIN STRUCTURE temporary stone barrier constructed at ain inlets and pond outlets. ock filter baskets which are hand-placed in stition forming soil stabilizing structures. LEVEL SPREADER A wall installed to stabilize cut and fill slop there maximum permissible slopes are not obtainable. Each situation will require specic A device or structure placed in front of a permanent stormwater detention pond outle structure to serve as a temporary sedimen (Sd1) SEDIMENT BARRIER TEMPORARY SEDIMENT BASIN allowing the bulk of the sediment t

STRUCTURAL PRACTICES

DESCRIPTION

A small temporary barrier or dam constructed across a swale, drainage ditch or area of

proving, constructing or stabilizing an open nannel, existing stream, or ditch.

CODE PRACTICE DETAIL MAP

CHECKDAM

(Ch) CHANNEL STABILIZATION

STRUCTURAL PRACTICES CODE PRACTICE DETAIL MAP DESCRIPTION

			SYMBOL	
ē)	TEMPORARY STREAM CROSSING		I C	A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
	STORMORAIN OUTLET PROTECTION			A paved or short section of riprop channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
5	SURFACE ROUGHENING		Ę	A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
0	TURBIDITY CURTAIN	No.	R B	A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
D	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
9	TREE PROTECTION	\odot	DEMONSTRATE CONTINUES	To protect desirable trees from injury during construction activity.
	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL		ŦŦ	Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES

DDE	PRACTICE	DETAIL	SYMBOL	DESCRIPTION
3f	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.
)s	COASTAL DUNE STABILIZATION (WITH VEGETATION)	A CONTRACTOR OF THE OWNER OWNER OF THE OWNER	Cs	Planting vegetation on dunes that are denuded, artificially constructed, or re-nourished.
s1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)	No.	Ds1	Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
s2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		Ds2	Establishing a temporary vegetative cover with fast grawing seedings on disturbed areas.
s3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)	A CONTRACTOR	Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
s4	DISTURBED AREA STABILIZATION (SODDING)		Ds4	A permanent vegetative cover using sods on highly erodable or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.
·Со	FLOCCULANTS AND COAGULANTS		F⊦Co	Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)		Sb	The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
S	SLOPE STABILIZATION	Æ	Ss	A protective covering used to prevent erosion and establish temporary or permonent vegetation on steep slopes, shore lines, or channels.
ac	TACKIFIERS AND BNIDERS		Tac	Substance used to anchor straw or hay mulch by cousing the organic material to bind together.

GSWCC 2016 Edition

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NEIL E SANDER LEVEL II CERTIFIED DESIGN PROFESSION CERTIFICATION NUMBER: 0000102294 ISSUED: 04/21/2023 EXPIRES: 04/21/2026

DSI	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY):	Ds3	DISTURBED AREA STAI
	DEFINITION: APPLY PLANT RESIDUES OR OTHER SUITABLE MATERIALS, PRODUCED ON THE SITE IF POSSIBLE, TO THE SOIL SURFACE.		THE PLANTING OF PERENNIAL VEGETA FINAL PERMANENT STABILIZATION. PER
	<u>CONDITIONS:</u> MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. MULCH CAN BE USED AS A SINGLE EROSION CONTROL DEVICE FOR UP TO SIX MONTHS, BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH, DEPENDING ON THE MATERIAL USED, ANCHORED, AND HAVE A CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE, MAINTENANCE SHALL BE REQUIRED TO MAINTAIN APPROPRIATE DEPTH AND 90% COVER. TEMPORARY VEGETATION		CONDITIONS: PERMANENT PERENNIAL VEGETATION I DAMS, AND OTHER DENUDED AREAS.
	MAY BE EMPLOYED INSTEAD OF MULCH IF THE AREA WILL REMAIN UNDISTURBED FOR LESS THAN SIX MONTHS. IF AN AREA WILL REMAIN UNDISTURBED FOR LESS THAN SIX MONTHS. IF AN AREA WILL REMAIN UNDISTURBED FOR GREATER THAN SIX MONTHS, PERMANENT VEGETATIVE TECHNIQUES SHALL BE EMPLOYED.		SEEDING RATES AS FOLLOWS: BAHIA: 1.4 POUNDS PER 1,000 SF (PLAN BERMUDA: 0.2 POUNDS PER 1,000 SF (P CENTIPEDE: BLOCK SOD ONLY (PLANTIF LESPEDEZA: 1.7 POUNDS PER 1,000 SE (
	THIS STANDARD APPLIES TO GRADES OR CLEARED AREAS WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDANT COVER, BUT CAN BE STABILIZED WITH A MULCH COVER.		WEEPING LOVE GRASS: 0.1 POUNDS PER SWITCH GRASS: 0.9 POUNDS PER 1,000
	 GRADE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH. INSTALL NEEDED EROSION CONTROL MEASURES AS REQUIRED SUCH AS DIKES, DIVERSIONS, BERMS, TERRACES AND SEDIMENT BARRIERS. LOOSEN COMPACT SOIL TO A MINIMUM DEPTH OF 3 INCHES. 		ALL DISTURBED AREAS SHALL BE TEMP LIME AND FERTILIZER: AGRICULTURAL LIME IS REQUIRED UN TON PER ACRE. GRADED AREAS REQUI
	<u>MULCH MATERIALS:</u> SELECT ONE OF THE FOLLOWING MATERIALS AND APPLY AT THE DEPTH INDICATED: 1. DRY STRAW OR HAY SHALL BE APPLIED AT A DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE SOIL COVERAGE. ONE ADVANTAGE OF THIS MATERIAL IS EAST APPLICATION		REASONABLY FERTILE SOILS OR SOIL M POUNDS OF 10-10-10 FERTILIZER OR SHOULD BE APPLIED BEFORE LAND PRE
	 WOOD WASTE (CHIPS, SAWDUST OR BARK) SHALL BE APPLIED AT A DEPTH OF 2 TO 3 INCHES. ORGANIC MATERIAL FROM THE CLEARING STAGE OF DEVELOPMENT SHOULD REMAIN ON SITE, BE CHIPPED, AND APPLIED AS MULCH. THIS METHOD OF MULCHING CAN GREATLY REDUCE EROSION CONTROL COSTS. 		<u>GRADING AND SHAPING:</u> GRADING AND SHAPING MAY NOT BE F BANKS SHALL BE SLOPED TO ENABLE P
	 CUTBACK ASPHALT (SLOW CURING) SHALL BE APPLIED AT 1200 GALLONS PER ACRE (OR ¹/₄ GALLON PER SQ.YD.). POLYETHYLENE FILM SHALL BE SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR TEMPORARY PROTECTION. THIS MATERIAL CAN BE SALVAGED AND REUSED. <u>APPLYING MULCH:</u> 		WHEN CONVENTIONAL SEEDING AND F EQUIPMENT CAN BE USED SAFELY AND OF THE VEGETATION. CONCENTRATION OUTLET. DIVERSIONS AND OTHER T
	 WHEN MULCH IS USED WITHOUT SEEDING, MULCH SHALL BE APPLIED TO PROVIDE FULL COVERAGE OF THE EXPOSED AREA. 1. DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL BE APPLIED UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT. 2. IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION, 20-30 POUNDS OF NITROGEN PER ACRE IN ADDITION TO THE NORMAL AMOUNT SHALL BE APPLIED TO OFFSET THE UPTAKE OF NITROGEN CAUSED BY THE DECOMPOSITION OF THE ORGANIC MULCHES. 		SPECIFICATIONS. <u>SEEDBED PREPARATION:</u> WHEN A HYDRAULIC SEEDER IS USED USING CONVENTIONAL OR HAND-SEEDI
	 CUTBACK ASPHALT SHALL BE APPLIED UNIFORMLY. CARE SHOULD BE TAKEN IN AREAS OF PEDESTRIAN TRAFFIC DUE TO PROBLEMS OF "TRACKING IN" OR DAMAGE TO SHOES, CLOTHING, ETC. APPLY POLYETHYLENE FILM ON EXPOSED AREAS. 		BROADCAST PLANTINGS 1. TILLAGE, AT A MINIMUM, SHALL ADE INCORPORATE LIME AND FERTILIZEF OR PLANTS: AND ALLOW FOR THE AN
	ANCHORING MULCH: 1. STRAW OF HAY MULCH CAN BE PRESSED INTO THE SOIL WITH A DISH HARROW WITH THE DISK SET STRAIGHT OR WITH A SPECIAL "PACKER DISK". DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISK SHOULD BE DULL ENOUGH NOT TO CUT THE MULCH BUT PRESS IT INTO THE SOIL LEAVING MUCH OF IT IN AN ERECT POSITION. STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION. STRAW OR HAY MULCH SPREAD WITH SPECIAL BLOWER-TYPE EQUIPMENT MAY BE ANCHORED WITH EMULSIFIED ASPHALT		 2. TILLAGE MAY BE DONE WITH ANY SUI 3. TILLAGE SHOULD BE DONE ON THE C 4. ON SLOPES TOO STEEP FOR THE TRENCHED ACROSS THE SLOPE WIT SEED MAY LODGE AND GERMINATE.
	 (GRADE AE-5 OR SS-1). THE ASPHALT EMULSION SHALL BE SPRAYED ONTO THE MULCH AS IT IS EJECTED FROM THE MACHINE. USE 100 GALLONS OF EMULSIFIED ASPHALT AND 100 GALLONS OF WATER PER TON OF MULCH. TACKIIERS AND BINDERS CAN BE SUBSTITUTED FOR EMULSIFIED ASPHALT. PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH SHALL BE INSTALLED ACCORDING TO MANUFACTURE'S SPECIFICATIONS. 2. NETTING OF THE APPROPRIATE SIZE SHALL BE USED TO ANCHOR WOOD WASTE. OPENINGS OF THE NETTING SHALL NOT BE 		 INDIVIDUAL PLANTS 1. WHERE INDIVIDUAL PLANTS ARE TO DIBBLE PLANTING. 2. FOR NURSERY STOCK PLANTS, HOLE 3. WHERE DIME SEED LINGS ARE TO BE
	LARGER THAN THE AVERAGE SIZE OF THE WOOD WASTE CHIPS. 3. POLYETHYLENE FILM SHALL BE ANCHOR TRENCHED AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY.		MONTHS PRIOR TO PLANTING. SU SEPTEMBER.
2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING):		HYDRAULIC SEEDING MIX THE SEED (INOCULATED IF NEEDE APPLY IN A SLURRY UNIFORMLY OVER ⁻
	¹ <u>DEFINITION:</u> THE ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS FOR SEASONAL PROTECTION ON DISTURBED OR DENUDED AREAS.		
	<u>CONDITIONS:</u> 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).		
	SEEDING RATES AS FOLLOWS: RYE: 3.9 POUNDS PER 1,000 SF (PLANTING DATES 9/1-3/1) RYEGRASS: 0.9 POUNDS PER 1,000 SF (PLANTING DATES 8/15-4/1) ANNUAL LESPEDEZA: 0.9 POUNDS PER 1,000 SF (PLANTING DATES 1/15-3/15) WEEPING LOVEGRASS: 0.1 POUNDS PER 1,000 SF (PLANTING DATES 2/15-6/15) SUDANGRASS: 1.4 POUNDS PER 1,000 SF (PLANTING DATES 3/1-8/1) BROWNTOP MILLET: 0.9 POUNDS PER 1,000 SF (PLANTING DATES 4/1-7/15) WHEAT: 4.1 POUNDS PER 1,000 SF (PLANTING DATES 9/15-2/1)		
	ALL DISTURBED AREAS SHALL BE TEMPORARY OR PERMANENTLY SEEDED AFTER 14 DAYS.		
	LIME AND FERTILIZER: AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE. GRADED AREAS REQUIRE LIME APPLICATION. SOILS CAN BE TESTED TO DETERMINE IF FERTILIZER IS NEEDED. ON REASONABLY FERTILE SOILS OR SOIL MATERIAL, FERTILIZER IS NOT REQUIRED. FOR SOILS WITH VERY LOW FERTILITY, 500 TO 700 POUNDS OF 10-10-10 FERTILIZER OR THE EQUIVALENT PER ACRE (12-16 LBS./1,000 SQ. FT.) SHALL BE APPLIED. FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER OR CHISEL.		
	<u>GRADING AND SHAPING:</u> 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 USED.		
	<u>SEEDBED PREPARATION:</u> 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.		
	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.		
	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 VEGETATION ESTABLISHMENT. MULCH WITHOUT SEEDING SHOULD BE CONSIDERED FOR SHORT TERM PROTECTION. REFER TO Ds1 - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY).		

STABILIZATION (WITH PERMANENT SEEDING):

EGETATION SUCH AS TREES, SHRUBS, VINES, GRASSES, OR LEGUMES ON EXPOSED AREAS FOR IN. PERMANENT PERENNIAL VEGETATION SHALL BE USED TO ACHIEVE FINAL STABILIZATION.

ATION IS USED TO PROVIDE A PROTECTIVE COVER FOR EXPOSED AREAS INCLUDING CUTS, FILLS, REAS.

(PLANTING DATES 1/1-12/31) D SF (PLANTING DATES 2/15-7/1) PLANTING DATES 4/1-7/1) 000 SF (PLANTING DATES 1/1-12/31) NDS PER 1,000 SF (PLANTING DATES 2/1-6/15) R 1,000 SF (PLANTING DATES 3/15-6/1)

E TEMPORARY OR PERMANENTLY SEEDED AFTER 14 DAYS.

ED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE OF ONE REQUIRE LIME APPLICATION. SOILS CAN BE TESTED TO DETERMINE IF FERTILIZER IS NEEDED. ON SOIL MATERIAL, FERTILIZER IS NOT REQUIRED. FOR SOILS WITH VERY LOW FERTILITY, 500 TO 700 R OR THE EQUIVALENT PER ACRE (12-16 LBS./1,000 SQ. FT.) SHALL BE APPLIED. FERTILIZER ND PREPARATION AND INCORPORATED WITH A DISK, RIPPER OR CHISEL.

DT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS USED. VERTICAL ABLE PLANT ESTABLISHMENT.

AND FERTILIZING ARE USED, GRADE AND SHAPE WHERE FEASIBLE AND PRACTICAL, SO THAT LY AND EFFICIENTLY DURING SEEDBED PREPARATION, SEEDING, MULCHING AND MAINTENANCE RATIONS OF WATER THAT WILL CAUSE EXCESSIVE SOIL EROSION SHALL BE DIVERTED TO A SAFE HER TREATMENT PRACTICES SHALL CONFORM WIT THE APPROPRIATE STANDARDS AND

S USED, SEEDBED PREPARATION IS NOT REQUIRED, BUT IS STRONGLY RECOMMENDED. WHEN -SEEDING, SEEDBED PREPARATION WILL BE DONE AS FOLLOWS:

ALL ADEQUATELY LOOSEN THE SOIL TO A DEPTH OF 4 TO 6 INCHES; ALLEVIATE COMPACTION; TILIZER; SMOOTH AND FIRM THE SOIL; ALLOW FOR THE PROPER PLACEMENT OF SEED, SPRIGS, THE ANCHORING OF STRAW OR HAY MULCH IF A DISK IS USED. NY SUITABLE EQUIPMENT.

THE CONTOUR WHERE FEASIBLE.

R THE SAFE OPERATION OF TILLAGE EQUIPMENT, THE SOIL SURFACE SHALL BE PITTED OR OPE WITH APPROPRIATE HAND TOOLS TO PROVIDE TWO PLACES 6 TO 8 INCHES APART IN WHICH INATE. HYDRAULIC SEEDING MAY ALSO BE USED.

RE TO BE SET, THE SOIL SHALL BE PREPARED BY EXCAVATING HOLES, OPENING FURROWS, OR

S, HOLES SHALL BE LARGE ENOUGH TO ACCOMMODATE ROOTS WITHOUT CROWDING. E TO BE PLANTED, SUBSOIL UNDER THE ROW 36 INCHES DEEP ON THE CONTOUR FOUR TO SIX NG. SUBSOILING SHOULD BE DONE WHEN THE SOIL IS DRY, PREFERABLY IN AUGUST OR

NEEDED), FERTILIZER, AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH WITH WATER AND OVER THE AREA TO BE TREATED. APPLY WITHIN ONE HOUR AFTER THE MIXTURE IS MADE.

ВΥ	APR	APR						
REV DATE DESCRIPTION	1 05/11/2023 REVISED PER MULTIPLE REVIEW LETTERS	2 07/24/2023 REVISED PER MULTIPLE REVIEW LETTERS						
***	Me La	e nachenaence	* FINGINEERING LLC	1777 SENTRY PARKWAY WEST	BUILDING 12, SUITE 103 BLUE BELL, PENNSYLVANIA 19422	(215) 798-4450 INDEPENDENCE@INDEPENDENCE ENGINEERING	NEW JERSEY * PENNSYLVANIA * MASSACHUSETTS	
FINAL LAND DEVELOPMENT SITE PLANS		SOIL EROSION & SEDIMENT CONTROL NOTES		FOR	WELLSTAR HEALTH SYSTEM, INC SENOIA	GEORGIA HIGHWAY 16, CITY OF SENOIA,	COWETA COUNTY, GEORGIA 30276	
D	SCA N' ESIC Al	F (CALE TS GNE PR	PRO 1028 DA 199/1	JEC -033 ATE 5/22 C	T 3 DRA JE HEC JV	.WN H CKE VJ	D	
	DESIGNED APR JWJ OFFORMATION No. PEO46186 PROFESSION No. PROFESSION NO. PROFESSIO							
\mid	SHI 2	EET 3	\	_ [F 3	_	

I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR100001.

Mil C' Sander 7/24/23 NEIL E. SANDER, P.E. DATE

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

Muil C' Saucher 7/24/23 NEIL E. SANDER, P.E. DATE

NEIL E SANDER LEVEL II CERTIFIED DESIGN PROFESSIONAL CERTIFICATION NUMBER: 0000102294 ISSUED: 04/21/2023 EXPIRES: 04/21/2026

SPECIMEN TREES TO BE REMOVED						EXIST	EXISTING TREES TO REMAIN				
NO.	TYPE	SIZE	LOCATION	SPECIMEN	STATUS	NO.	TYPE	SIZE (INCHES)	LOCATION	SPECIMEN	STATUS
		(
374	WATER OAK	26	ON SITE	YES	REMOVE	1321	WATER OAK	14	ON SITE	NO	TO REMAIN
1232	RED OAK	26	ON SITE	YES	REMOVE	1322	WATER OAK	12	ON SITE	NO	TO REMAIN
1245	RED OAK	26	ON SITE	YES	REMOVE	1324	WATER OAK	12	ON SITE	NO	TO REMAIN
1274	RED OAK	28	ON SITE	YES	REMOVE	1325	WATER OAK	12	ON SITE	NO	TO REMAIN
1319	RED OAK	30	ON SITE	YES	REMOVE	15217	WATER OAK	12	ON SITE	NO	TO REMAIN
15261	WATER OAK	60	OFF SITE	YES	REMOVE	15223	WATER OAK	20	ON SITE	NO	TO REMAIN

ATTA-JO-THOT OVO CAME TO - LEDIN OCI STABILIZE DISTURBED AREA AS SHOWN ON CIVIL PLANS -SEE EROSION-CONTROL PLAN FOR TEMPORARY AND PERMANENT GRASSING (TYP) ANN LANDSCAPE PLAN SCALE: 1" = 20'-0" ***CAUTION*** THE UTILITIES SHOWN HEREON ARE FOR THE CONTRACTORS CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE LANDSCAPE ARCHITECT ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ALWAYS CALL 811 BEFORE YOU DIG IN GEORGIA UTILITIES PROTECTION CENTER IT'S THE LAW PLANT LIST TREES SYMBOLQTYBOTANICAL NAMEAR6ACER RUBRUM 'OCTOBER GLORY' MIN. SIZE COND. SPACING COMMON NAME OCT. GLORY RED MAPLE 3-3.5" CAL/14-16' HT. B&B 30' O.C. 10 CERCIS CANADENSIS EASTERN RED BUD 2-2.5" CAL./10-11' HT. CC B&B INRS 6 ILEX X NELLIE R STEVENS NELLIE R STEVENS HOLLY 8-9' HT. (2" CAL) B&B IV 21 ILEX VOMITORIA YAUPON HOLLY 8-9' HT. (2" CAL) B&B MG 6 MAGNOLIA GRANDIFLORA SOUTHERN MAGNOLIA 8-9' HT. (2" CAL) B&B 4 PISTACHIA CHINENSIS PC CHINESE PISTACHE 3-3.5" CAL/14-16' HT. B&B 5 QUERCUS PHELLOS QP WILOW OAK 3-3.5" CAL/14-16' HT. B&B TD 6 TAXODIUM DISTICHUM BALD CYPRESS 3-3.5" CAL/14-16' HT. B&B UAP 6 ULMUS AMERICANA 'PRINCETON' PRINCETON AMERICAN ELM 3-3.5" CAL/14-16' HT. B&B SHRUBS BMG 6 BUXUS 'GREEN MOUNTAIN' GREEN MOUNTAIN BOXWOOD 3' HT. MIN. CONT 109 ILEX CRENATA 'SOFT TOUCH' SOFT TOUCH HOLLY ICS 3 GAL./18" HT. CONT. 23 LIRIOPE MUSCARI 'BIG BLUE' BIG BLUE LIRIOPE CONT. LM 1 GAL. 85 LIRIOPE MUSCARI 'VARIEGATA' CONT. LMV VARIGATED LIRIOPE 1 GAL. LOR 76 LOROPETALUM CHINENSIS 'PURPLE DIAMOND' PURPLE DIAMOND FRINGE FLOWER 3 GAL./18" HT. CONT. PMG 16 MUHLENBERGI CAPILLARIS CONT. PINK MUHLY GRASS 3 GAL./18" HT. 62 ROSA 'MEIGALPIO' RED DRIFT ROSE 3 GAL./18" HT. CONT ROS 12 MISCANTHUS SINENSIS 'ADAGIO' DWARF MAIDEN GRASS 3 GAL./18" HT. CONT. MIS HOWARD'S LIGUSTRUM LJH 10 LIGUSTRUM JAPONICA 'HOWARDI' 3 GAL./18" HT. CONT 3 GAL./18" HT. CONT. VJD 36 DISTYLIUM 'VINTAGE JADE' VINTAGE JADE DISTYLLIUM SOD BERMUDA SOD, OR OTHER (TO MATCH EXISTING) SOD PALLETS

NO. 231 232 234 236 237 241 242 244 245 246 247 248 250 257 277 308 309 310 318 320 321 322 323 325 326 327 320 321 322 323 325 326 327 330 321 322 323 325 326 327 330 331 334 335 336 337 339 371 373 374 1151 1152 1153 1154 1157 1160 1171 1152 1153 1154 1157 1160 1171 1152 1153 1154 1157 1160 1171 1193 1194 1197 1198 1200 1201 1203 1206 1207 1201 1203 1206 1207 1232 1216 1227 1232 1236 1207 1208 1208 1207 1208 1207 1208 120	TYPE WATER OAK WATER OAK PINE PINE PINE WATER OAK WATER OAK RED OAK	SIZE (INCHES) 10 10 12 8 8 18 10 18 10 18 10 18 10 18 10 8 12 8 12 8 22 8 20 8 20 8 20 8 20 8 20 8 24 8 14 10 12 18 10 12 8 14 10 12 8 14 10 15 12 18 22 16 12 <	LOCATION ON SITE ON SITE	SPECIMEN NO	STATUS REMOVE
231 232 234 236 237 241 242 244 245 246 247 248 250 257 277 308 309 310 318 320 321 322 323 325 326 327 330 321 322 323 325 326 327 330 331 333 334 335 336 337 339 371 373 374 1151 1152 1153 1154 1157 1160 1171 1193 1201	WATER OAK PINE PINE PINE PINE WATER OAK WATER OAK RED OAK	10 10 12 8 8 18 10 18 10 18 10 18 10 8 20 8 20 8 20 8 20 8 24 8 24 8 14 10 12 18 10 12 18 10 12 14 10 12 8 14 10 12 8 14 10 15 12 18 22 16 12 18 22 16 12	ON SITE ON SITE	NO	REMOVE REMOVE
236 237 241 242 244 245 246 247 248 250 257 277 308 309 310 318 320 310 318 320 310 318 320 321 322 323 325 326 327 320 321 322 323 325 326 327 330 331 332 325 326 327 330 331 332 325 326 327 330 331 332 325 326 327 330 331 332 327 320 321 322 323 325 326 327 330 331 331 332 327 330 331 331 332 331 333 334 335 336 337 339 371 373 374 1151 1152 1153 1154 1157 1154 1157 1153 1154 1157 1160 1171 1198 1194 1197 1198 1200 1201 1201 1203 1201 1203 1201 1203 1201 1203 1201 1203 1201 1203 1203	PINE PINE PINE WATER OAK WATER OAK WATER OAK WATER OAK WATER OAK WATER OAK WATER OAK PINE CEDAR MAPLE BIRCH MAPLE WATER OAK WATER OAK RED OAK	8 8 18 10 18 10 8 12 10 8 22 8 20 8 20 8 24 8 14 12 18 10 8 22 16 10 12 8 14 10 12 18 10 12 14 10 12 14 10 12 14 10 15 12 14 10 15 12 18 22 16 12 18 22 16	ON SITE ON SITE	NO	REMOVE REMOVE
241 242 244 245 246 247 248 250 257 277 308 309 310 318 320 321 322 323 325 326 327 320 321 322 323 325 326 327 330 331 333 334 333 334 335 336 337 339 331 333 334 335 336 337 339 371 373 373 374 1151 1152 1153 1154 1157 1150 1157 1150 1171 1193 1194 1197 1198 1200 1201 1201 1201 1203 1209 1210 1201 1203 1209 1210 1203 1209 1210 1203 1209 1210 1203 1205 1207 1232 1234 1234 1235	WATER OAK WATER OAK WATER OAK WATER OAK WATER OAK WATER OAK WATER OAK WATER OAK MAPLE BIRCH MAPLE BIRCH MAPLE WATER OAK WATER OAK RED OAK	0 18 10 18 16 8 12 10 8 22 8 20 8 20 8 24 8 14 12 18 10 8 22 16 10 14 10 12 8 14 10 12 8 14 10 12 8 14 10 12 14 10 15 12 18 22 16 12 18 22 16 12 18 22 16	ON SITE ON SITE	NO	REMOVE REMOVE
245 246 247 248 250 257 277 308 309 310 318 320 321 322 323 325 326 327 320 321 322 323 325 326 327 320 321 322 323 325 326 327 330 331 333 334 335 336 337 339 371 333 334 335 336 337 339 371 373 374 1151 1152 1153 1154 1157 1152 1153 1154 1157 1152 1153 1154 1157 1154 1157 1160 1171 1193 1194 1197 1198 1200 1201 1201 1203 1201 1203 1201 1203 1201 1203 1201 1203 1201 1203 1201 1203 1203	WATER OAK WATER OAK WATER OAK WATER OAK PINE CEDAR MAPLE BIRCH MAPLE WATER OAK WATER OAK RED OAK	18 16 8 12 10 8 22 8 20 8 24 8 14 12 18 10 8 24 8 14 10 8 22 16 10 12 8 14 10 12 8 14 10 12 8 14 10 12 14 10 15 12 18 22 16 12 18 22 16 12 18 22 16 12 24	ON SITE ON SITE	NO	REMOVE REMOVE
2-47 248 250 257 277 308 309 310 318 320 321 322 323 325 326 327 330 331 333 334 335 336 337 339 371 373 374 1151 1152 1153 1154 1157 1160 1171 1193 1194 1197 1198 1200 1201 1203 1209 1210 1203 1209 1210 1223 1216 1227 1232 1234 1236 1237 1238	WATER OAK WATER OAK PINE CEDAR MAPLE BIRCH MAPLE WATER OAK WATER OAK RED OAK	12 10 8 22 8 20 8 24 8 14 12 18 10 8 22 16 10 14 10 14 10 12 8 14 10 12 8 14 10 12 8 14 10 12 14 10 15 12 14 10 15 12 18 22 16 12 18 22 16 12 24 12 12 14 12 <tr< td=""><td>ON SITE ON SITE</td><td>NO NO NO</td><td>REMOVE REMOVE</td></tr<>	ON SITE ON SITE	NO	REMOVE REMOVE
257 2777 308 309 310 318 320 321 322 323 325 326 327 326 327 330 331 333 334 334 335 336 337 339 371 373 374 1151 1152 1153 1154 1157 1152 1153 1154 1157 1151 1152 1153 1154 1157 1154 1157 1153 1154 1157 1198 1200 1210 1201 1201 1203 1209 1210 1201 1203 1209 1210 1201 1203 1209 1210 1203 1203 1203 1203 1203 1203 1203	PINE CEDAR MAPLE BIRCH MAPLE WATER OAK WATER OAK RED OAK	8 22 8 20 8 24 8 14 12 18 10 8 22 16 10 14 10 14 10 14 10 12 8 14 16 12 14 16 12 14 16 12 14 26 14 10 15 12 18 22 16 12 18 22 16 12 24 12 12 12 12 12 12 12 12 <	ON SITE ON SITE	NO	REMOVE REMOVE
300 309 310 318 320 321 322 323 325 326 327 330 331 33 334 335 336 337 339 371 373 374 1151 1152 1153 1154 1157 1160 1171 1193 1194 1197 1198 1200 1201 1203 1201 1203 1201 1203 1201 1223 1216 1227 1234 1236 1237	BIRCH MAPLE WATER OAK WATER OAK RED OAK	20 8 24 8 14 12 18 10 8 22 16 10 14 10 14 10 12 8 14 10 12 8 14 10 12 14 26 14 10 15 12 18 22 16 12 13 14 10 15 12 18 22 16 12 14 12 14 12 14 12 12 12 12 12 12	ON SITE ON SITE	NO	REMOVE REMOVE
318 320 321 322 323 325 326 327 330 331 333 334 335 336 337 339 371 373 374 1151 1152 1153 1154 1157 1160 1171 1193 1194 1196 1201 1203 1201 1203 1201 1203 1201 1203 1201 1223 1216 1227 1234 1235 1234 1236 1237	WATER OAK WATER OAK RED OAK	24 8 14 12 18 10 8 22 16 10 14 10 14 10 14 10 12 8 14 16 12 14 26 14 10 15 12 14 10 15 12 14 10 15 12 18 22 16 12 18 22 16 12 24 12 12 12 12 12 12 12 12 12 12 12	ON SITE ON SITE	NO	REMOVE REMOVE
321 322 323 325 326 327 330 331 33 334 334 335 336 337 339 371 373 374 1151 1152 1153 1154 1157 1153 1154 1157 1154 1157 1151 1157 1160 1171 1193 1194 1197 1198 1200 1201 1203 1209 1210 1201 1203 1209 1210 1203 1209 1210 1203 1209 1210 1203 1203 1203 1203 1203 1203 1203	WATER OAK WATER OAK RED OAK	14 12 18 10 8 22 16 10 14 10 12 8 14 10 12 8 14 16 12 8 14 16 12 14 26 14 10 15 12 18 22 16 12 18 22 16 12 18 22 16 12 24 12 12 12 12 12 12 12 12 12 12	ON SITE ON SITE	NO	REMOVE REMOVE
325 326 327 330 331 33 334 335 336 337 339 371 373 374 1151 1152 1153 1154 1157 1150 1157 1150 1154 1157 1160 1171 1193 1194 1197 1198 1200 1201 1201 1203 1209 1210 1201 1203 1209 1210 1223 1216 1227 1232 1234 1236 1237	WATER OAK WATER OAK RED OAK	10 8 22 16 10 14 10 12 8 14 16 12 8 14 16 12 14 26 14 10 15 12 18 22 16 12 24 12 12 12	ON SITE ON SITE	NO	REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE
327 330 331 333 334 335 336 337 339 371 373 374 1151 1152 1153 1154 1157 1160 1171 1193 1194 1197 1198 1200 1201 1203 1209 1210 1203 1209 1210 1223 1216 1227 1232 1234 1236 1237 1238	WATER OAK WATER OAK RED OAK	$\begin{array}{c} 22 \\ 16 \\ 10 \\ 14 \\ 10 \\ 12 \\ 8 \\ 14 \\ 16 \\ 12 \\ 14 \\ 16 \\ 12 \\ 14 \\ 26 \\ 14 \\ 10 \\ 15 \\ 12 \\ 12 \\ 12 \\ 12 \\ 18 \\ 22 \\ 16 \\ 12 \\ 24 \\ 12 \\ 24 \\ 12 \\ 12 \\ 12 \\ 12$	ON SITE ON SITE	NO	REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE
33 334 335 336 337 339 371 373 374 1151 1152 1153 1154 1157 1160 1171 1193 1194 1196 1197 1198 1200 1201 1203 1201 1203 1210 1223 1216 1227 1234 1236 1237 1238	WATER OAK WATER OAK WATER OAK WATER OAK WATER OAK WATER OAK WATER OAK WATER OAK WATER OAK RED OAK	14 10 12 8 14 16 12 14 16 12 14 26 14 10 15 12 18 22 16 12 24 12 12 12 12 14	ON SITE ON SITE	NO	REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE
335 336 337 339 371 373 374 1151 1152 1153 1154 1157 1160 1171 1193 1194 1196 1197 1198 1200 1201 1203 1201 1203 1201 1203 1201 1223 1216 1227 1234 1236 1237 1238	WATER OAK WATER OAK WATER OAK WATER OAK WATER OAK WATER OAK WATER OAK RED OAK	12 8 14 16 12 14 26 14 10 15 12 18 22 16 12 18 22 16 12 12 12 13 12 12 14 10 12 13 14 15 12 12 13 14 15 16 12 12 14 12 12 12 12 12 12 12 12 12 12 12 12 13 14 15 <t< td=""><td>ON SITE ON SITE</td><td>NO NO NO NO NO NO YES NO NO</td><td>REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE</td></t<>	ON SITE ON SITE	NO NO NO NO NO NO YES NO	REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE
339 371 373 374 1151 1152 1153 1154 1157 1160 1171 1193 1194 1196 1197 1198 1200 1201 1203 1209 1210 1223 1216 1227 1232 1234 1236 1237 1238	WATER OAK WATER OAK WATER OAK RED OAK	16 12 14 26 14 10 15 12 18 22 16 12 24 12 12	ON SITE ON SITE	NO NO YES NO NO NO NO NO NO NO NO	REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE
373 374 1151 1152 1153 1154 1157 1160 1171 1193 1194 1196 1197 1198 1200 1201 1203 1209 1210 1203 1209 1210 1223 1216 1227 1232 1234 1236 1237	WATER OAK WATER OAK RED OAK BIRCH RED OAK BIRCH RED OAK	14 26 14 10 15 12 12 12 12 18 22 16 12 24 12 12 12 12 12 12 12 12 12 12	ON SITE ON SITE ON SITE ON SITE ON SITE ON SITE ON SITE ON SITE ON SITE ON SITE	NO YES NO NO NO NO NO NO NO NO	REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE
1152 1152 1153 1154 1157 1160 1171 1193 1194 1196 1197 1198 1200 1201 1203 1209 1210 1223 1216 1227 1232 1234 1236 1237 1238	RED OAK RED OAK	10 15 12 12 12 18 22 16 12 24 12 12 12 12	ON SITE ON SITE ON SITE ON SITE ON SITE ON SITE ON SITE	NO NO NO NO NO NO	REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE
1154 1157 1160 1171 1193 1194 1196 1197 1198 1200 1201 1203 1209 1210 1223 1216 1227 1232 1234 1236 1237 1238	RED OAK RED OAK RED OAK RED OAK RED OAK RED OAK RED OAK RED OAK RED OAK BIRCH RED OAK RED OAK	12 12 18 22 16 12 24 12 12 12 12	ON SITE ON SITE ON SITE ON SITE ON SITE ON SITE	NO NO NO NO	REMOVE REMOVE REMOVE REMOVE
1171 1193 1194 1196 1197 1198 1200 1201 1203 1209 1210 1203 1209 1210 1223 1216 1227 1232 1234 1236 1237 1238	RED OAK RED OAK RED OAK RED OAK RED OAK RED OAK RED OAK BIRCH RED OAK RED OAK	10 22 16 12 24 12 12 12	ON SITE ON SITE ON SITE	NO NO	REMOVE REMOVE
1194 1196 1197 1198 1200 1201 1203 1209 1210 1223 1216 1227 1232 1234 1236 1237 1238	RED OAK RED OAK RED OAK RED OAK RED OAK BIRCH RED OAK RED OAK	12 24 12 12	ON SITE	'	
1198 1200 1201 1203 1209 1210 1223 1210 1223 1216 1227 1232 1234 1236 1237 1238	RED OAK RED OAK RED OAK BIRCH RED OAK RED OAK	12	ON SITE	NO NO	REMOVE REMOVE
1201 1203 1209 1210 1223 1216 1227 1232 1234 1236 1237 1238	RED OAK BIRCH RED OAK RED OAK	12	ON SITE ON SITE	NO NO	REMOVE REMOVE
1205 1210 1223 1216 1227 1232 1234 1236 1237 1238	RED OAK	12 12	ON SITE ON SITE	NO NO	REMOVE REMOVE
1216 1227 1232 1234 1236 1237 1238	RED UAK	12 12 24	ON SITE ON SITE ON SITE	NO NO NO	REMOVE REMOVE
1232 1234 1236 1237 1238	SWEETGUM RED OAK	15 15	ON SITE ON SITE	NO NO	REMOVE REMOVE
1237 1238	RED OAK RED OAK	20 24 12	ON SITE ON SITE ON SITE	NO NO	REMOVE REMOVE
1244	RED OAK RED OAK	12 15	ON SITE ON SITE	NO NO	REMOVE REMOVE
1241 1243 1245	RED OAK RED OAK RED OAK	24 26	ON SITE ON SITE ON SITE	NO NO YES	REMOVE
1251 1253	RED OAK RED OAK	12 12	ON SITE ON SITE	NO NO	REMOVE REMOVE
1254 1256 1257	RED OAK RED OAK RED OAK	12 12 12	ON SITE ON SITE ON SITE	NO NO NO	REMOVE REMOVE
1271 1274	RED OAK RED OAK	12 28	ON SITE ON SITE	NO YES	REMOVE REMOVE
1284 1315 1317	RED OAK RED OAK RED OAK	12 15 14	ON SITE ON SITE ON SITE	NO NO NO	REMOVE REMOVE
1319 1321	RED OAK WATER OAK	30 14	ON SITE ON SITE	YES NO	REMOVE TO REMAIL
1323 1324	WATER OAK WATER OAK WATER OAK	12 12 12	ON SITE ON SITE ON SITE	NO NO NO	REMOVE TO REMAIL
1325 1326	WATER OAK WATER OAK	12 12	ON SITE OFF SITE	NO NO	TO REMAIL TO REMAIL
15217 15219 15220	WATER OAK WATER OAK WATER OAK	12 18 18	ON SITE ON SITE ON SITE	NO NO NO	REMOVE REMOVE
15221 15222	WATER OAK WATER OAK	14 12	ON SITE ON SITE	NO NO	REMOVE REMOVE
15223 15224 15225	WATER OAK WATER OAK WATER OAK	20 24 12	OFF SITE OFF SITE	NO NO NO	TO REMAIL TO REMAIL
15229 15230	WATER OAK SWEETGUM	14 14	OFF SITE OFF SITE	NO NO	TO REMAIL TO REMAIL
15231 15234 15235	WATER OAK CHERRY	14 24 14	OFF SITE ON SITE OFF SITE	NO NO YES	REMOVE REMOVE
15240 15243	WATER OAK WATER OAK	12 14	ON SITE OFF SITE	NO NO	REMOVE REMOVE
15244 15249 15254	PINE PINE	14 12 14	OFF SITE OFF SITE ON SITE	NO NO NO	REMOVE REMOVE
15261 15270	WATER OAK WATER OAK	60 15	ON SITE OFF SITE	YES NO	REMOVE REMOVE
15272 15273 15274	WATER OAK WATER OAK WATER OAK	14 14 16	OFF SITE OFF SITE	NO NO NO	REMOVE REMOVE REMOVE
15280 15281	PINE PINE	12 12	OFF SITE OFF SITE	NO NO	TO REMAIL TO REMAIL
15283 15284 15285	PINE PINE PINE	12 12 12	OFF SITE OFF SITE OFF SITE	NO NO NO	TO REMAIL TO REMAIL
15286 15288	PINE PINE	12 12	OFF SITE OFF SITE	NO NO	TO REMAIL TO REMAIL
15299 15290 15291	PINE PINE PINE	16 16 18	OFF SITE OFF SITE OFF SITE	NO NO NO	TO REMAIL TO REMAIL
15292 15293	PINE PINE	20 18	OFF SITE OFF SITE	NO NO	TO REMAIL TO REMAIL
15294 15295 15296	PINE PINE PINE	10 12 12	OFF SITE OFF SITE OFF SITE	NO NO NO	TO REMAIL TO REMAIL
15297 15299 15200	PINE PINE	12 18	OFF SITE OFF SITE	NO NO	TO REMAIL TO REMAIL
15300 15302 15303	PINE PINE PINE	12 12 12	OFF SITE OFF SITE	NO NO	TO REMAI
15304 15305	PINE	14 20	OFF SITE	NO NO	TO REMAIL
15306 15310 15311	PINE PINE PINE	18 14 14	OFF SITE OFF SITE	NO NO NO	TO REMAIL TO REMAIL
15318 15319	PINE PINE	14 14	OFF SITE	NO NO	TO REMAIL TO REMAIL
15324 15325 15326	RED OAK SWEETGUM	14 14 14	OFF SITE OFF SITE	NO NO NO	TO REMAIN
15331 15332	WATER OAK WATER OAK	18 14	OFF SITE OFF SITE	NO NO	TO REMAIL TO REMAIL
15333 15338 15339	HICKORY SWEETGUM SWEETGUM	18 14 14	OFF SITE OFF SITE OFF SITE	NO NO NO	TO REMAIL TO REMAIL TO REMAIL
15340 15341	WATER OAK WATER OAK	12 16	OFF SITE	NO NO	REMAIN TO REMAIN
15350 15353 15356	CHERRY CHERRY WATER OAK	12 12 14	OFF SITE OFF SITE ON SITE	NO NO NO	REMOVE REMOVE
15357 15358	WATER OAK WATER OAK	14 18	OFF SITE OFF SITE	NO NO	REMAIN
15384 15385 15386	WATER OAK WATER OAK	12 15 16	ON SITE	NO NO	REMOVE REMOVE
	1315 1317 1317 1321 1323 1324 1325 1326 1327 1328 1327 1328 1327 1328 1329 1321 1323 1324 1325 1326 15217 15220 15223 15224 15254 15230 15240 15231 15241 15233 15244 15241 15253 15241 15243 15244 15245 15240 15241 15253 15243 15244 15245 15281 15283 15284 15284 15285 15286 15297 15298 15291 15292 15293 15294 15305 15306 15310 15331 153326 15331 <td>1315 RED OAK 1317 RED OAK 1319 RED OAK 1321 WATER OAK 1322 WATER OAK 1323 WATER OAK 1324 WATER OAK 1325 WATER OAK 1326 WATER OAK 15217 WATER OAK 15219 WATER OAK 15220 WATER OAK 15221 WATER OAK 15222 WATER OAK 15223 WATER OAK 15224 WATER OAK 15225 WATER OAK 15224 WATER OAK 15225 WATER OAK 15230 SWEETGUM 15231 SWEETGUM 15234 WATER OAK 15243 WATER OAK 15244 RED OAK 15245 CHERY 15246 PINE 15254 PINE 15261 WATER OAK 15272 WATER OAK 15283 PINE</td> <td>1315 RED OAK 15 1317 RED OAK 30 1321 WATER OAK 14 1322 WATER OAK 12 1323 WATER OAK 12 1324 WATER OAK 12 1325 WATER OAK 12 1326 WATER OAK 12 1327 WATER OAK 12 15217 WATER OAK 18 15220 WATER OAK 14 15221 WATER OAK 14 15222 WATER OAK 14 15223 WATER OAK 14 15224 WATER OAK 14 15230 SWEETGUM 14 15231 SWEETGUM 14 15234 WATER OAK 12 15235 CHERRY 14 15240 WATER OAK 14 15241 RED OAK 14 15242 PINE 12 15243 WATER OAK 14 15244 RED OAK 14 15270 WATER OAK 14<!--</td--><td>1315 RED OAK 14 ON SITE 1317 RED OAK 14 ON SITE 1321 WATER OAK 12 ON SITE 1322 WATER OAK 12 ON SITE 1323 WATER OAK 12 ON SITE 1324 WATER OAK 12 ON SITE 1325 WATER OAK 12 ON SITE 1326 WATER OAK 12 ON SITE 15219 WATER OAK 18 ON SITE 15220 WATER OAK 18 ON SITE 15221 WATER OAK 14 ON SITE 15223 WATER OAK 20 ON SITE 15224 WATER OAK 14 OFF SITE 15225 WATER OAK 14 OFF SITE 15231 SWEETGUM 14 OFF SITE 15234 WATER OAK 14 OFF SITE 15240 WATER OAK 14 OFF SITE 15241 PINE 14 ON SITE <</td><td>1315 RED OAK 15 ON SITE NO 1317 RED OAK 30 ON SITE NO 1321 WATER OAK 14 ON SITE NO 1322 WATER OAK 12 ON SITE NO 1323 WATER OAK 12 ON SITE NO 1324 WATER OAK 12 ON SITE NO 1325 WATER OAK 12 ON SITE NO 1326 WATER OAK 12 ON SITE NO 15217 WATER OAK 12 ON SITE NO 15220 WATER OAK 12 ON SITE NO 15221 WATER OAK 12 ON SITE NO 15224 WATER OAK 12 OFF SITE NO 15235 WATER OAK 12 OFF SITE NO 15244 WATER OAK 14 OFF SITE NO 15235 WATER OAK 14 OFF SITE NO 15240 <t< td=""></t<></td></td>	1315 RED OAK 1317 RED OAK 1319 RED OAK 1321 WATER OAK 1322 WATER OAK 1323 WATER OAK 1324 WATER OAK 1325 WATER OAK 1326 WATER OAK 15217 WATER OAK 15219 WATER OAK 15220 WATER OAK 15221 WATER OAK 15222 WATER OAK 15223 WATER OAK 15224 WATER OAK 15225 WATER OAK 15224 WATER OAK 15225 WATER OAK 15230 SWEETGUM 15231 SWEETGUM 15234 WATER OAK 15243 WATER OAK 15244 RED OAK 15245 CHERY 15246 PINE 15254 PINE 15261 WATER OAK 15272 WATER OAK 15283 PINE	1315 RED OAK 15 1317 RED OAK 30 1321 WATER OAK 14 1322 WATER OAK 12 1323 WATER OAK 12 1324 WATER OAK 12 1325 WATER OAK 12 1326 WATER OAK 12 1327 WATER OAK 12 15217 WATER OAK 18 15220 WATER OAK 14 15221 WATER OAK 14 15222 WATER OAK 14 15223 WATER OAK 14 15224 WATER OAK 14 15230 SWEETGUM 14 15231 SWEETGUM 14 15234 WATER OAK 12 15235 CHERRY 14 15240 WATER OAK 14 15241 RED OAK 14 15242 PINE 12 15243 WATER OAK 14 15244 RED OAK 14 15270 WATER OAK 14 </td <td>1315 RED OAK 14 ON SITE 1317 RED OAK 14 ON SITE 1321 WATER OAK 12 ON SITE 1322 WATER OAK 12 ON SITE 1323 WATER OAK 12 ON SITE 1324 WATER OAK 12 ON SITE 1325 WATER OAK 12 ON SITE 1326 WATER OAK 12 ON SITE 15219 WATER OAK 18 ON SITE 15220 WATER OAK 18 ON SITE 15221 WATER OAK 14 ON SITE 15223 WATER OAK 20 ON SITE 15224 WATER OAK 14 OFF SITE 15225 WATER OAK 14 OFF SITE 15231 SWEETGUM 14 OFF SITE 15234 WATER OAK 14 OFF SITE 15240 WATER OAK 14 OFF SITE 15241 PINE 14 ON SITE <</td> <td>1315 RED OAK 15 ON SITE NO 1317 RED OAK 30 ON SITE NO 1321 WATER OAK 14 ON SITE NO 1322 WATER OAK 12 ON SITE NO 1323 WATER OAK 12 ON SITE NO 1324 WATER OAK 12 ON SITE NO 1325 WATER OAK 12 ON SITE NO 1326 WATER OAK 12 ON SITE NO 15217 WATER OAK 12 ON SITE NO 15220 WATER OAK 12 ON SITE NO 15221 WATER OAK 12 ON SITE NO 15224 WATER OAK 12 OFF SITE NO 15235 WATER OAK 12 OFF SITE NO 15244 WATER OAK 14 OFF SITE NO 15235 WATER OAK 14 OFF SITE NO 15240 <t< td=""></t<></td>	1315 RED OAK 14 ON SITE 1317 RED OAK 14 ON SITE 1321 WATER OAK 12 ON SITE 1322 WATER OAK 12 ON SITE 1323 WATER OAK 12 ON SITE 1324 WATER OAK 12 ON SITE 1325 WATER OAK 12 ON SITE 1326 WATER OAK 12 ON SITE 15219 WATER OAK 18 ON SITE 15220 WATER OAK 18 ON SITE 15221 WATER OAK 14 ON SITE 15223 WATER OAK 20 ON SITE 15224 WATER OAK 14 OFF SITE 15225 WATER OAK 14 OFF SITE 15231 SWEETGUM 14 OFF SITE 15234 WATER OAK 14 OFF SITE 15240 WATER OAK 14 OFF SITE 15241 PINE 14 ON SITE <	1315 RED OAK 15 ON SITE NO 1317 RED OAK 30 ON SITE NO 1321 WATER OAK 14 ON SITE NO 1322 WATER OAK 12 ON SITE NO 1323 WATER OAK 12 ON SITE NO 1324 WATER OAK 12 ON SITE NO 1325 WATER OAK 12 ON SITE NO 1326 WATER OAK 12 ON SITE NO 15217 WATER OAK 12 ON SITE NO 15220 WATER OAK 12 ON SITE NO 15221 WATER OAK 12 ON SITE NO 15224 WATER OAK 12 OFF SITE NO 15235 WATER OAK 12 OFF SITE NO 15244 WATER OAK 14 OFF SITE NO 15235 WATER OAK 14 OFF SITE NO 15240 <t< td=""></t<>

EXIST	ING I REES				
		SIZE			
NO.	NO. TYPE		LOCATION	SPECIMEN	STATUS
1321	WATER OAK	14	ON SITE	NO	TO REMAIN
1322	WATER OAK	12	ON SITE	NO	TO REMAIN
1324	WATER OAK	12	ON SITE	NO	TO REMAIN
1325	WATER OAK	12	ON SITE	NO	TO REMAIN
15217	WATER OAK	12	ON SITE	NO	TO REMAIN
15223	WATER OAK	20	ON SITE	NO	TO REMAIN

SPECIMEN TREES TO BE REMOVED									
NO.	TYPE	SIZE (INCHES)	LOCATION	SPECIMEN	STATUS				
374	WATER OAK	26	ON SITE	YES	REMOVE				
1232	RED OAK	26	ON SITE	YES	REMOVE				
1245	RED OAK	26	ON SITE	YES	REMOVE				
1274	RED OAK	28	ON SITE	YES	REMOVE				
1319	RED OAK	30	ON SITE	YES	REMOVE				
15261	WATER OAK	60	OFF SITE	YES	REMOVE				

PLANT L	IST								
TREES									
SYMBOL	QTY	BOTANICAL NAME	COMMON NAME	MIN. SIZE	COND.	SPACING	COMMENTS	TYPE	INCHES
AR	6	ACER RUBRUM 'OCTOBER GLORY'	OCT. GLORY RED MAPLE	3-3.5" CAL/14-16' HT.	B&B	30' O.C.	MATCHING CROWNS	OVERSTORY	18
CC	10	CERCIS CANADENSIS	EASTERN RED BUD	2-2.5" CAL./10-11' HT.	B&B	15' O.C.	FULL AND WELL FORMED	UNDERSTORY	20
INRS	6	ILEX X NELLIE R STEVENS	NELLIE R STEVENS HOLLY	8-9' HT. (2" CAL)	B&B	8' O.C.	FULL AND WELL FORMED	UNDERSTORY	12
IV	21	ILEX VOMITORIA	YAUPON HOLLY	8-9' HT. (2" CAL)	B&B	10' 0.C.	FULL AND WELL FORMED	UNDERSTORY	42
MG	6	MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA	8-9' HT. (2" CAL)	B&B	20' O.C.	FULL AND WELL FORMED	OVERSTORY	12
PC	4	PISTACHIA CHINENSIS	CHINESE PISTACHE	3-3.5" CAL/14-16' HT.	B&B	SHOWN	MATCHING CROWNS	OVERSTORY	12
QP	5	QUERCUS PHELLOS	WILOW OAK	3-3.5" CAL/14-16' HT.	B&B	35' O.C.	MATCHING CROWNS	OVERSTORY	15
	58								131.0
SHRUBS									
BMG	6	BUXUS 'GREEN MOUNTAIN'	GREEN MOUNTAIN BOXWOOD	3' HT. MIN.	CONT.	SHOWN	FULL AND WELL FORMED		
ICS	109	ILEX CRENATA 'SOFT TOUCH'	SOFT TOUCH HOLLY	3 GAL./18" HT.	CONT.	2.5' O.C.	FULL AND WELL FORMED		
LM	23	LIRIOPE MUSCARI 'BIG BLUE'	BIG BLUE LIRIOPE	1 GAL.	CONT.	16" O.C.	FULL AND WELL FORMED		
LMV	85	LIRIOPE MUSCARI 'VARIEGATA'	VARIGATED LIRIOPE	1 GAL.	CONT.	16" O.C.	FULL AND WELL FORMED		
LOR	76	LOROPETALUM CHINENSIS 'PURPLE DIAMOND'	PURPLE DIAMOND FRINGE FLOWER	3 GAL./18" HT.	CONT.	3' O.C.	FULL AND WELL FORMED		
PMG	16	MUHLENBERGI CAPILLARIS	PINK MUHLY GRASS	3 GAL./18" HT.	CONT.	3' O.C.	FULL AND WELL FORMED		
ROS	74	ROSA 'MEIGALPIO'	RED DRIFT ROSE	3 GAL./18" HT.	CONT	2.5' O.C.	FULL AND WELL FORMED		
MIS	12	MISCANTHUS SINENSIS 'ADAGIO'	DWARF MAIDEN GRASS	3 GAL./18" HT.	CONT.	3' O.C.	FULL AND WELL FORMED		
LJH	10	LIGUSTRUM JAPONICA 'HOWARDI'	HOWARD'S LIGUSTRUM	3 GAL./18" HT.	CONT.	3.5' O.C.	FULL AND WELL FORMED		
VJD	36	DISTYLIUM 'VINTAGE JADE'	MNTAGE JADE DISTYLLIUM	3 GAL./18" HT.	CONT.	3' O.C.	FULL AND WELL FORMED		
SOD									
SOD		BERMUDA SOD. OR OTHER (TO MATCH EXIS			PALLETS		CERTIFIED		

TREE PLANTING DETAIL CONIFEROUS TREE NOT TO SCALE

TREE PROTECTION FENCE NOT TO SCALE

1. ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASE.

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2. ALL PLANTS MUST BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED IN THE PLANT LIST. 3. ALL TREES MUST BE STRAIGHT TRUNKED AND FULL HEADED AND

MEET ALL REQUIREMENTS SPECIFIED. 4. ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE

ARCHITECT BEFORE, DURING, AND AFTER INSTALLATION. ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DETAILS. ALL PLANTING AREAS MUST BE COMPLETELY MULCHED AS SPECIFIED

TO A DEPTH OF 4". PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION

THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK.

9. THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING (INCLUDING BUT NOT LIMITED TO: WATERING, SPRAYING,

MULCHING, FERTILIZING, ETC.) OF THE PLANTING AREAS AND LAWN UNTIL THE WORK IS ACCEPTED IN TOTAL BY THE OWNER

10. THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR BEGINNING ON THE DATE OF TOTAL ACCEPTANCE. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE GUARANTEE PERIOD. 11. THE ARCHITECT SHALL APPROVE THE STAKING LOCATION OF ALL PLANT MATERIAL PRIOR TO INSTALLATION.

12. AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES IN LEAF SHALL BE ACCLIMATED FOR TWO (2) WEEKS UNDER A MIST SYSTEM PRIOR TO INSTALLATION.

13. ANY PLANT MATERIAL WHICH DIES, TURNS BROWN, OR DEFOLIATES (PRIOR TO TOTAL ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS

14. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL. 15. ALL SHRUB, GROUND COVER AND SEASONAL COLOR ANNUAL PLANTING BEDS ARE TO BE COMPLETELY COVERED WITH HARDWOOD

MULCH TO A MINIMUM DEPTH OF FOUR INCHES 16. LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF UTILITY LINES AND ADJACEN TO THE WORK AREA. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD. 17. SAFE, CLEARLY MARKED PEDESTRIAN AND VEHICULAR ACCESS TO ALL ADJACENT PROPERTIES MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS.

18. DURING THE GROWING SEASON ALL ANNUALS SHALL REMAIN IN A HEALTHY, VITAL CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. 19. ALL PLANT MATERIALS QUANTITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANTING BEDS AT SPACING SHOWN.

20. ALL DISTURBED AREAS ARE TO RECEIVE 4" OF TOP SOIL MIXED WITH 20 PERCENT MR. NATURAL COMPLETE LANDSCAPE MIX, MULCH, AND WATER UNTIL A HEALTHY STAND OF GRASS IS OBTAINED. 21. REFER TO SPECIFICATIONS FOR ALL INFORMATION NEEDED FOR IMPLEMENTATION OF PLANTING PLANS.

22. A MINIMUM SEPARATION OF 36" SHALL BE MAINTAINED BETWEEN LANDSCAPING AND FIRE HYDRANTS UNLESS OTHERWISE SPECIFIED BY LOCAL CODE.

23. THIS PLAN IS FOR LANDSCAPING PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL LOCAL BUILDING AND SAFETY CODES (GUARDRAILS, MINIMUM SLOPES, ETC.)

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CITY OF SENOIA LANDSCAPE NOTES:

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ALL LANDSCAPING SHALL BE IN PLACE PRIOR TO THE CONNECTION OF PERMANENT POWER OR RECORDING OF A FINAL PLAT 2.CONTACT THE CITY MANAGER, 770-599-3679, FOR A SITE INSPECTION UPON COMPLETION OF LANDSCAPE INSTALLATION. 3. IF THE LANDSCAPE DESIGN OR PLANT MATERIAL ARE CHANGED IN ANY WAY FROM THE SENOIA CITY PERMITTED PLAN, YOU SHALL SUBMIT TWO SETS OF REVISED PLANS TO THE CITY ARBORIST'S OFFICE PRIOR TO ANY LANDSCAPE INSTALLATION.

CONTACT SENOIA CITY HALL AT 770-599-3679 TO ARRANGE A **PRE-CONSTRUCTION CONFERENCE** WITH THE CITY ARBORIST OR DESIGNATED AGENT(S) PRIOR TO ANY LAND DISTURBANCE.

ALL TREE PROTECTION AND EROSION CONTROL MEASURES MUST BE **INSTALLED PRIOR TO GRADING.**

UNDISTURBED BUFFERS SHALL BE **REPLANTED TO BUFFER STANDARDS** WHERE SPARSLEY VEGETATED OR WHERE DISTURBED AT APPROVED UTILITY CROSSINGS. REPLANTINGS ARE SUBJECT TO CITY ARBORIST OR DESIGNATED AGENT(S) APPROVAL.

LANDSCAPE CALCULATIONS

TOTAL SITE AREA: 1.6 AC. +/- (69,592 SF +/-) 80 INCHES PER ACRE REQUIRED FOR TREE REPLACEMENT 1.6 AC. x 80 INCHES = 128 INCHES REQUIRED (5) EXISTING TREES TO REMAIN: 70 INCHES 20" WATER OAK 12" WATER OAK 12" WATER OAK 14" WATER OAK 12" WATER OAK PROPOSED TREES: 131 INCHES MIN. 8% OF PARKING LOT SHALL BE LANDSCAPED: 22,039 SF PARKING LOT AREA 22,039 SF x 0.08 = 1,763 SF REQUIRED, 1,957 SF PROVIDED (8.9%) MIN. 20% OF ALL EXISTING TREES 12" OR GREATER SHALL BE RETAINED.

57 EXISTING TREES ARE 12" OR GREATER. 5 EXISTING TREES 12" OR GREATER WILL BE RETAINED = 8.7% (VARIANCE REQUIRED)

ONE CANOPY TREE PER 250 SF OF LANDSCAPED AREA REQUIRED 33,200 SF+/- LANDSCAPED AREA / 250 = 133 TREES REQUIRED, 58 TREES PROVIDED (VARIANCE REQUIRED)

THREE SHRUBS PER 250 SF OF LANDSCAPED AREA REQUIRED 33,200 SF LANDSCAPED AREA / 250 = 133 133 x 3 = 399 SHRUBS REQUIRED, 447 SHRUBS PROVIDED

OPEN SPACE CALCULATIONS

TOTAL SITE AREA: 1.6 AC. +/- (69,592 SF +/-) (DOES NOT INCL. R/W FOR TUCKER ROAD) TOTAL OPEN SPACE: 50,049 SF+/- = 57.8%

TREE REPLACEMENT FUND NOTE:

THREE (3) ESTIMATES WILL BE PROVIDED FOR (75) - 2-2.5" CALIPER TREES TO THE CITY OF SENOIA TO FIND AN AVERAGE COST TO BE CONTRIBUTED TO THE TREE REPLACEMENT FUND FOR THE CITY.

LANDSCAPE PLAN NOTES & DETAILS

Landscape Architects & Land Planners Marietta, Georgia 30061 www.bilsonassociates.com

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	145 Church Street NE, Suite 24 Marietta, Georgia 3006 Phone: 404.424.448 www.aligndesignassociates.com
WELLSTAR MEDICAL GROUP PROTOTYPE MEDICAL OFFICE BUILDING	ACCROSS - 7970 WELLS ST, SENOIA, GA 30276
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SD-42 Side-door litter receptacles are a marvel of detail and structural integrity. The side-door hinges have stainless steel hinge pins and all-impregnated bronze bushings. Standard tap cred formed lid. Latch. Bottom receased pedestal. STANDARD All fabricated metal components are steel shotblasted, etched, phosphatized, preheated and electrostatially powder-coated with VGIC polyester powder coatings. Other standard features include a formed lid attached to the frame, a high-density plastic liner, and rubber-tipped leveling feet on the base.

Interior plastic liners for our litter receptacies of fer substantial value and are produced on mold s that we designed and own. Th see plastic cans are reinforced, ribbed, and molded for datability, case of use, and greater capacity. OPTIONS

Victor Sanley Relay¹⁰ Sensor and Service available with dome, rain bornet, spherical dome, or enclosed d'one lids. Keyed locking mechanism. Dome lid (asitrays available). Convex lid (selfclose door available). Rain hormet lid (ashtnys available). Spherical done lid (self-close door avalable). Enclosed dome Ed (ashtrays available). Recycle Eds. Galvanized steel liner (powder coat available). Halif-Moon in ers. Custom decals and plaques.

6' BENCH

VICTOR STANLEY BENCH, RB-28, STEELSITES RB COLLECTION, 6', BLACK, SURFACE MOUNTED. (OR SIMILAR)

LITTER RECEPTACLE SURFACE MOUNTED. (OR SIMILAR)

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VICTOR STANLEY LITTER RECEPTACLE, SD-42, BLACK, WITH DOME LID,

BIKE RACK

VICTOR STANLEY BIKE RACK, BRWS-101, BLACK, SURFACE MOUNTED (OR SIMILAR)

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SITE F

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	VICTOR ST	ANLEY°		Create a timeless moment.*		DESIGNASSOCIATES 145 Church Street NE, Suite 240 Marietta, Georgia 30060 Phone: 404.424.4488 www.aligndesignassociates.com
	A-1-424 Designed to best accommodate the way in while integrated searing. Our goal was to create a des confort while offering the greatest case of ing use of an innovative trapezoi dal seat shape, na Unexpectedly, we found in our sampling that of and exit the seating area, but also created come to more easily rotate, the design encourages or upon this by surrounding the slats with a fully rotation and greater visual definition of the spit 42 in (1067 mm) injund steel tabletop. Four bat backs). Independent part. ADA Compilant. Fai "Covered by one or more of the following: US biolog78 S, D690;79 S, D694;56 S, D694;55 J077;351 S, D697;352 S.	check of the series of the ser	CAPACITY 5 Person MOUNT In-Ground Surface LENGTH 42 in (1067 mm) Round	Tabletop		ELLSTAR MEDICAL GROUP PROTOTYPE MEDICAL OFFICE BUILDING ACCROSS - 7970 WELLS ST, SENOIA, GA 30276
	OPTIONS TABLE VICTOR STANLEY T SURFACE MOUNTED WITH SLOTTED PAT	ABLE, A-I-424, 42" RO D, ADA COMPLIANT, TERN, BLACK. (OR S	ADA Compliant Perforated Tabletop	E TOP, ED TOP		
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		Distance of the second	CHITTECTS &	THE STREET STREE	RS 061 om	SITE FURNISHINGS / SPEC SHEETS JOB NUMBER: 21204.00
		ALWAYS CALL 811 BEFORE YOU DIG IN GEORGIA UTILITIES PROTECTION CENTER IT'S THE LAW	THE UTILITIES SHOWN ONLY. THERE MAY BE LANDSCAPE ARCHITED SHOWN AND IT SHALL UTILITIES WITHIN THE UTILITIES BY THE CON CONTRACTOR.	HEREON ARE FOR THE CONTRAC OTHER UTILITIES NOT SHOWN OF ASSUMES NO RESPONSIBILITY BE THE CONTRACTOR'S RESPON LIMITS OF THE WORK. ALL DAMA ITRACTOR SHALL BE THE SOLE	CTORS CONVENIENCE N THESE PLANS. THE FOR THE LOCATIONS ISIBILITY TO VERIFY ALL GE MADE TO EXISTING RESPONSIBILITY OF THE	L1-04

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