

CLASS S

10.0 12.0 19 10.0 0.50 CLASS I 33% 13 11.0 1.79 0.36

(FT) (IN) (FT) (F

STRUCTURE La

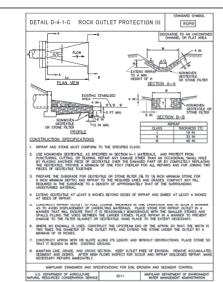
QTY CUTOFF

WALL

(LE)

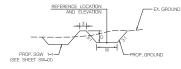
O10 V10 (FPS)

(CFS)



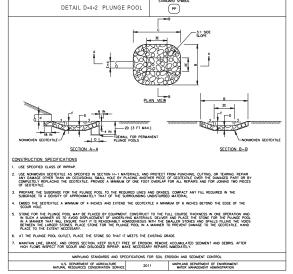
RIPRAP OUTFALL SCHEDULE										
STRUCTURE ID	L (FT)	W (FT)	T (IN)	H (FT)	CLASS	ASS TYPE QTY CUTOFF Q10 (SY) (LF) (CFS) (
EW 4-1	7.0	5.0	19	1.50	CLASS I	ROP III	4	N/A	1.78	1.01
ES 9-1	6.0	4.0	19	1.25	CLASS I	ROP III	3	4.0	1.48*	3.73*
NOTE, THE OLD AND MIC SHOWN FOR THIS CHITCHILL ARE THE O AND W FOR THE FOLL STORM. THIS CHITCHILL										

*NOTE: THE Q10 AND V10 SHOWN FOR THIS OUTFALL ARE THE Q AND V FOR THE ESDV STORM. THIS OUTFALL ONLY RECEIVES THE RUNOFF FOR THIS STORM DUE TO THE FLOW SPLITTER UPSTREAM.



DITCH TYPICAL SECTION

			DITCH	SCHEDULE						
ID	STATION FROM	STATION TO	BASELINE	STATION	OFFSET	ELEV. (FT)	W (LF)	D (LF)	REMARKS	STABILIZATION QTY (SY)
		201+31.3 202+13.3 0	CLARKSBURG	201+31.3	159.8 LT	645.00	2	1.0		TYPE A SSM: 357
			CLARKSBURG	201+77.0	137.9 LT	644.56	2	1.0		
			CLARKSBURG	202+22.0	114.8 LT	644.11	2	1.0		
DT-4-01	201+31.3		CLARKSBURG	202+33.6	108+5 LT	644.00	2	1.0	SEE SHEET DD-05 FOR SSM DETAIL	
			CLARKSBURG	202+41.4	97.5 LT	643.94	2	1.0		
			CLARKSBURG	202+37.0	78.5 LT	643.85	2	1.0		
			CLARKSBURG	202+13.3	62.8 LT	643.72	2	1.0		



PLUNGE POOL SCHEDULE											
STRUCTURE ID	B (FT)	C (FT)	D (IN)	d (IN)	E (FT)	F (FT)	CLASS	Q10 (CFS)	V10 (FPS)	QTY (SY)	CUTOFF WALL (LF)
EW 3-1	15.00	18.00	19	36	3.00	1.50	CLASS I	32.22	4.56	29	15



DIVERSION MANHOLE (MH 9-2) SCHEMATIC

- NOTES:

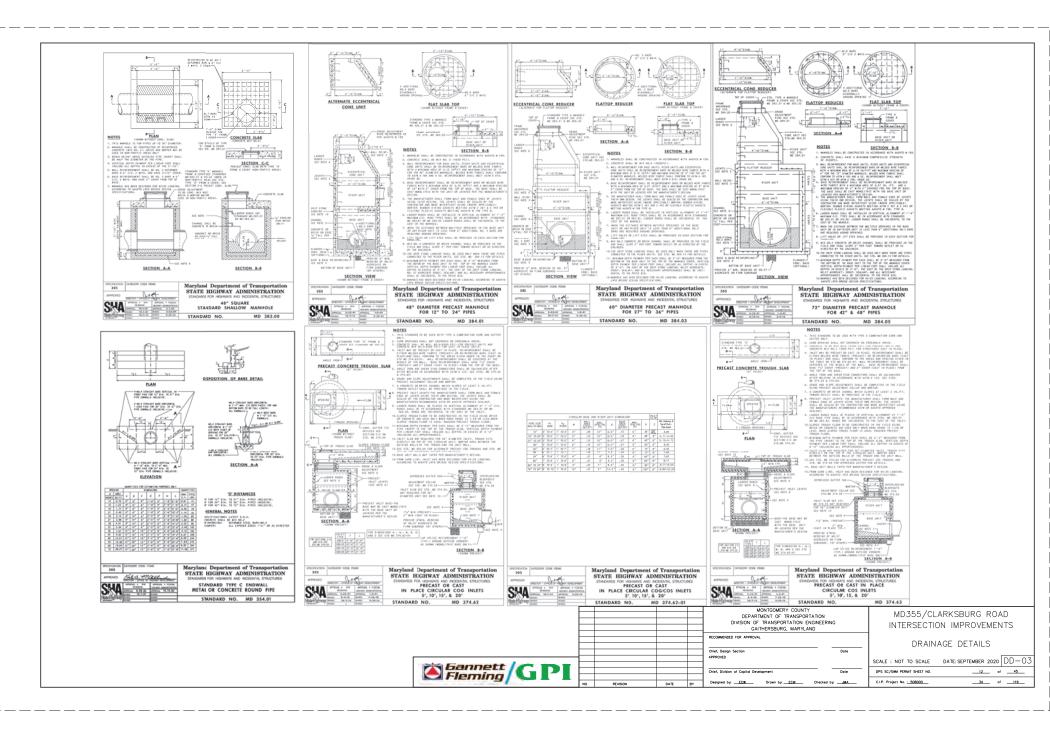
 1. CONTRACTOR MUST VERIFY THE DIMENSIONS BETWEEN THE DIVERSION PIPE AND THE OVERFLOW PIPE PRIOR TO BACKFILL OF THE STRUCTURE AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY OF ANY DISCREPANCY WITH THE DIMENSIONS ON THE APPROVED PLANS STRUCTURES BUILT INCORRECTLY WILL REQUIRE REMOVAL AND REPLACEMENT.
- 2. DIVERSION MANHOLE WILL BE MEASURED AND PAID FOR AS 48" DIAMETER PRECAST MANHOLE.

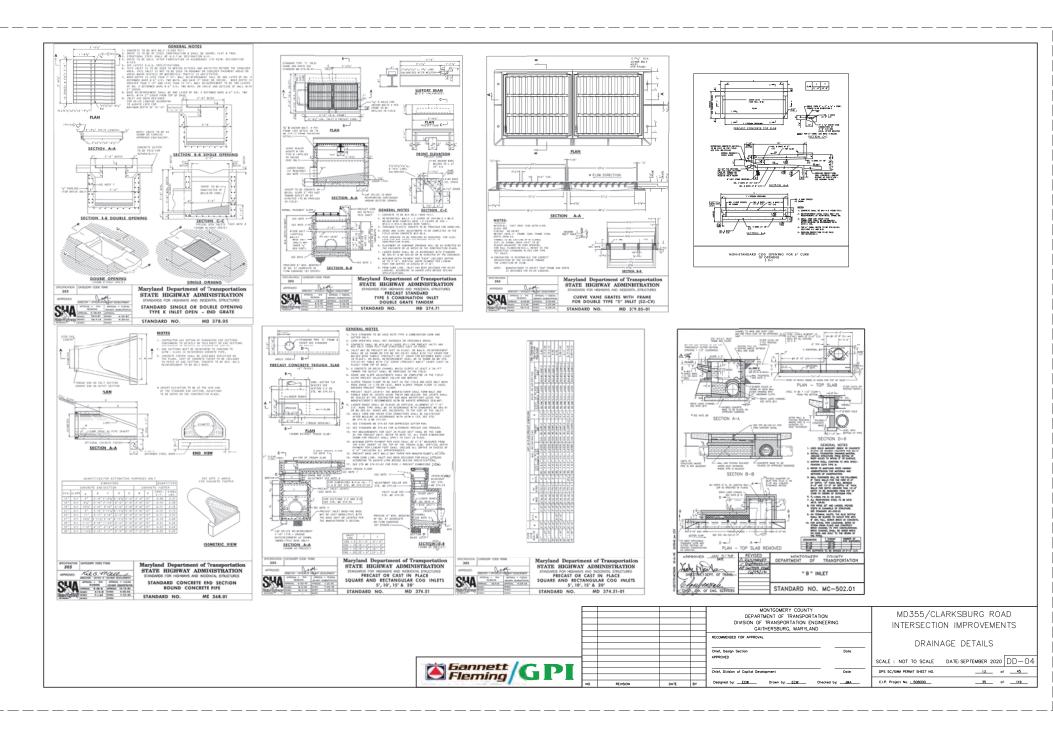
	NO.	REVISION	DATE	BY	Designed by: <u>ECW</u> Drown by: <u>ECW</u> Checked by: <u>JMA</u>	
Sannett GPI						\vdash
LIGITIELL /					Chief, Division of Capital Development Date	-
Fannett /					1	L
					APPROVED	
					Chief, Design Section Date	_
						_
				_	RECOMMENDED FOR APPROVAL	
				 	GAITHERSBURG, MARYLAND	
				-	DIVISION OF TRANSPORTATION ENGINEERING	
	_			-	DEPARTMENT OF TRANSPORTATION	
				_	MONTGOMERY COUNTY	- 1

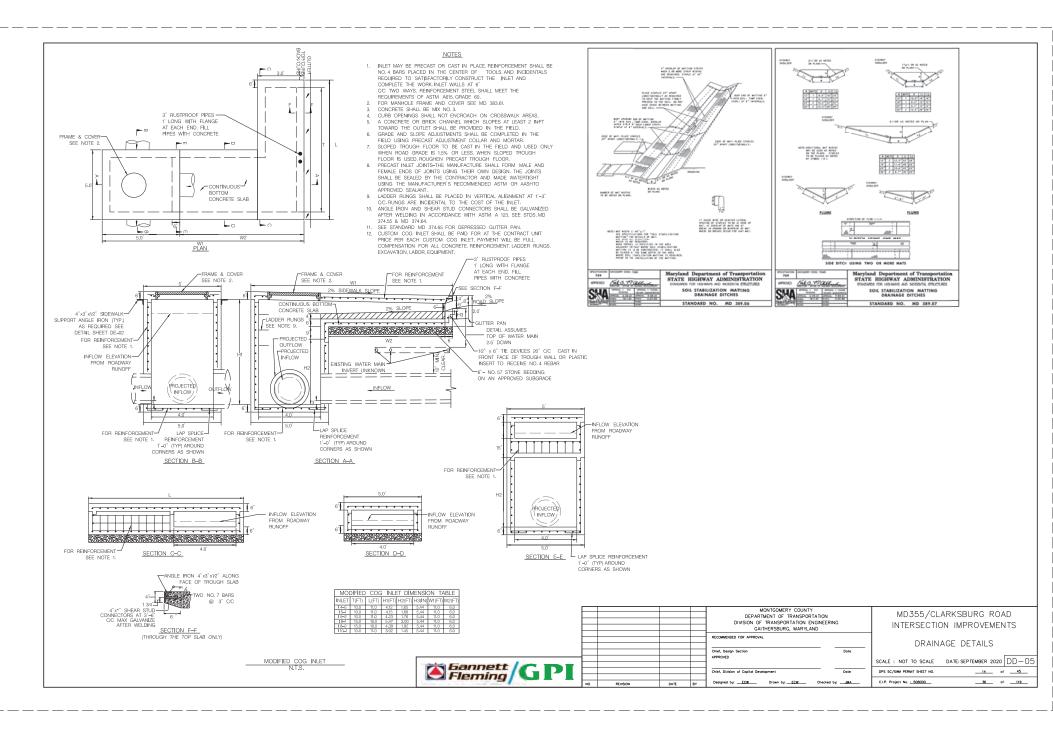
INTERSECTION IMPROVEMENTS DRAINAGE DETAILS

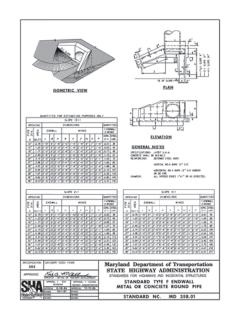
MD355/CLARKSBURG ROAD

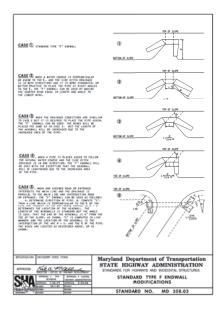
SCALE : NOT TO SCALE DATE: SEPTEMBER 2020 DD-02 DPS SC/SWM PERMIT SHEET NO. C.I.P. Project No. : 508000 _____33____of ____119___

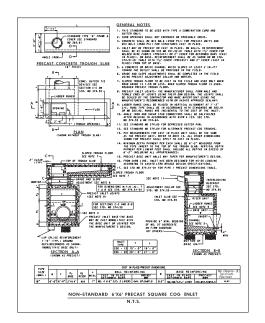


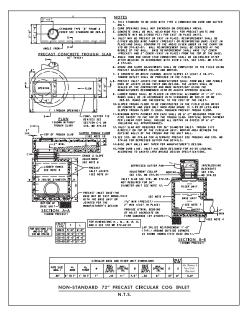




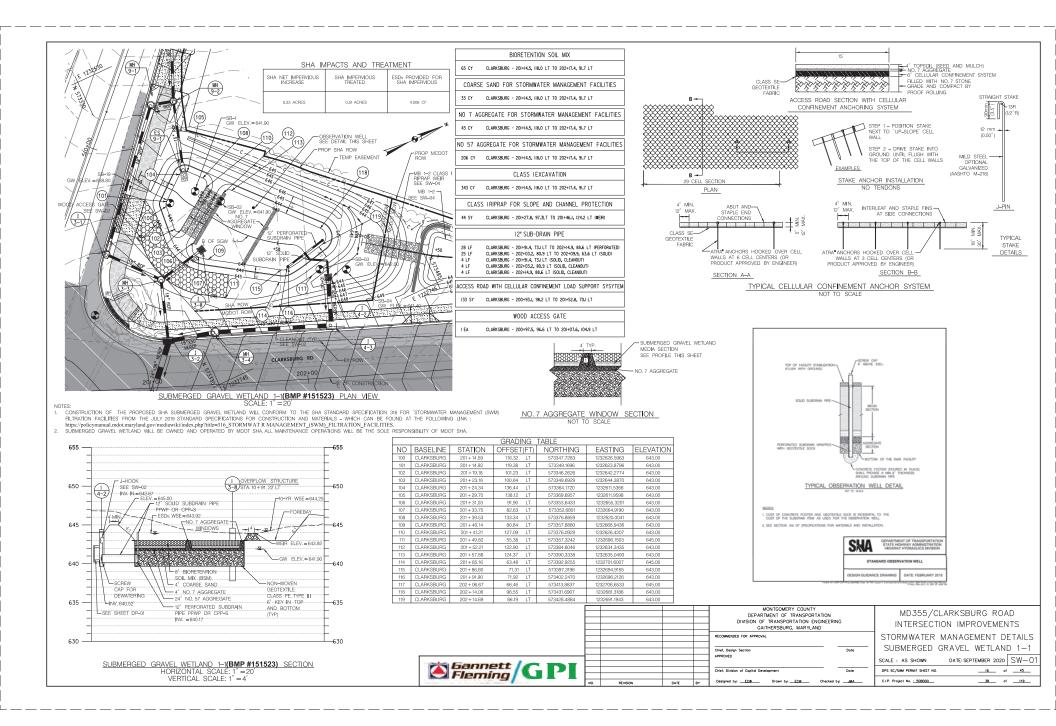


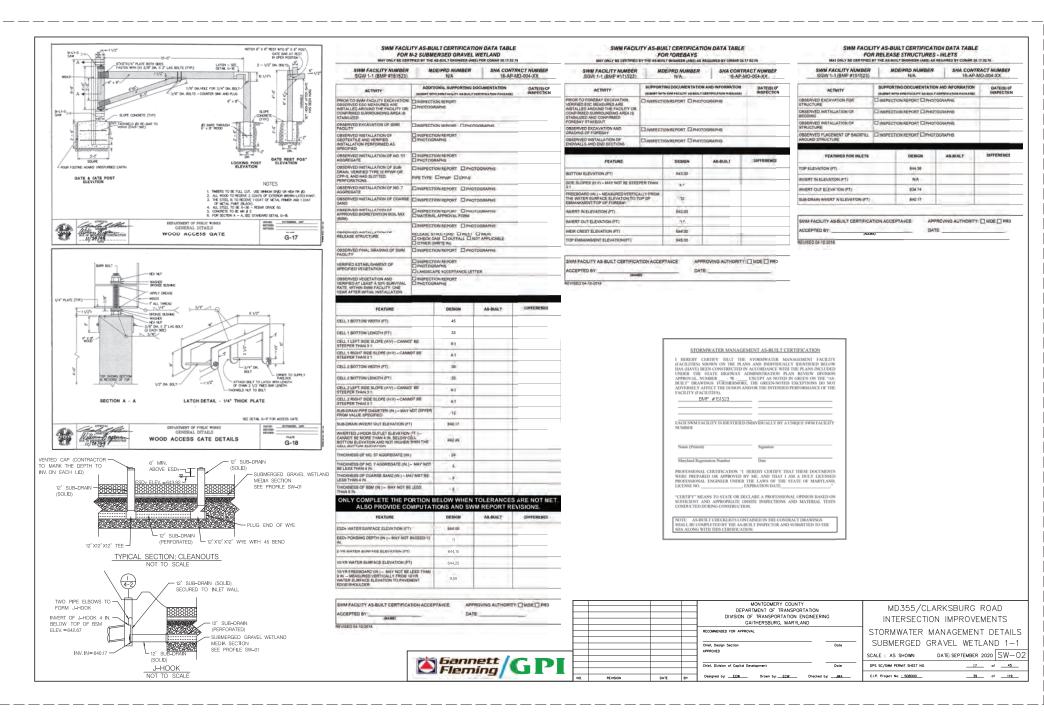












SPECIAL PROVISIONS (ONTACT NO. IFB_ContractNoIFB_ContractNo 300 — ACCESS ROAD WITH CELLULAR CONFINEMENT 1 of 2 SPECIAL PROVISIONS CONTACT NO. IFB_ContractNolFB_ContractNo 300 — ACCESS ROAD WITH CELLULAR CONFINEMENT 2 of 2 317 STORMWATER MANAGEMENT (SWM) FACILITY AS-BUILT CERTIFICATION appears in the photographs, the dates the photographs were taken, and he location necessary, cut the geogrid to shape or size. Lay the next peogrid panel in the same way, adjact to the first, and staple each of the eyes cell edges together to create a single panel out of the stap of the control of the stap (4) Verification of whether SWM facility as built construction is as specified, noting any deviations from the Contract Documents and how the deviations have been addressed. (b) Photographs of SWM facilities and practices after all landscaping has been installed and established, with nurrative descriptions of what appears in the photographs. ACCESS ROAD WITH CELLULAR CONFINEMENT LOAD SUPPORT SYSTEM (r) Copies of portinent material approval forms. notices to pulsage as south out final acceptance. 2014Att 1990A is deal fingular. The SVM As this Enginee (ΔE) is requestled for anomalog and entitying the SVM conflication people. Define include adaptancy documenting that the SVM confliction have been constructed as quartile, and princing inspection ording printer construction activates for SVM desilies and procision. The ASEE deal for a Peril-basineed Engineer (E E), regional of a limited in the low or all Associated and the section of the SVM desilies and procision. The ASEE deal for a Peril-basineed Engineer in SVM facility design and SVM desilies associated. Existing a section of the SVM facility of the SVM facility construction. Existing a section of the SVM facility construction. Existing a section of the SVM facility construction. Existing a section of the SVM facility construction of the SVM facility constr (d) Copies of pertinent material and installation test reports and results Do not stand on the empty accepted shelf useful completely filled. Fill each end of the geograd with a handful of aggregate to held it is place. However the geograf is in constant contains with the general standard of aggregate to held it is place. There the geograf is in constant contains with the general better contract contains in small. Could be not have been filled, remove the temperary peace or push them completely min the ground fir improved stability. The geograf may be filled manually or machinately. If filled mechanically, of their contractions of their co 500 Completed as while medication data abilities. Of these laws in the laws of particles signed and winded by a Professional Load Serveyor of the SDM delitties and practices signed and winded by a Professional Load Serveyor (FLS) white is registered and Serveyor (SLS) when it is explained to the State of Load Serveyor (SLS) white is required to the State State of State No. 7 Aggraphe
Contentile, Non-Wiven
Scouring Pins and Studies
Tepoul
Tepoul
Stury Middle
Wood Cellidore Fiber
Sool Subhizzion Matting (SSM)
Fanteness for SSM
Truffgrans Seed Mix
SIM A Turfgrans Seed Mix
Natar
Water M 43, No. 7 919.01, Class SE 919.03 920.01 920.03.01 920.04.01 920.04.02 920.05, Type A 920.05 02 920.06 920.06.03 920.06.03 (a) Full name of the ABE, License No. and expiration-date. (4) Contact information.
(4) Extract verb experience.
(4) Proof of valid contification of the Maryland Department of the Environment (MEE).
(4) Proof of valid contification and Sediment Control usining course (downey) "Green Cost").
Nate: All contifications for the former course MEE Repossible Presented Training for Enrole and Sediment Control ("Ottons Cost") expect on December 33, 2003 and are no longer vision. Placement of Topsoil. Place topsoil on the aggregate infill material to a minimum depth of 4 in. per 701.03. reacts some on our STMS lacetons and processes. QCD Desinger Structures, Includes all desinger structures within the toupriest of the SWM facility, Academy but not limited to infers, matches, flow apliture, stores, wrise, end sections, Readmill, and and with As should that abile include the size finished to the structure elevations, structure lengths, and structure widthe; pipe inverse; pipe store, materials, and flow directions; orfifee elevations; opening sizes, with elementors and elevations; check data becisions and directions; opening sizes, and reduced the real-Perform turfgrass establishment per Section 705 or turfgrass sod establishment per Section 708, whichever is specified. When turfgrass seed is specified, also install Type A soil stabilization matting (SSM) per Section 709. The ABE shall have the option to use designors, who are under the direct supervision of the ABE, to perform the following duties on behalf of the ABE. elevation, code described main defensions pare, and with relative Or Stope and Angues Sachskin dimensions of proposal under cross within the control of the control of the control of the control type of segregate or region included particles of the control (a) Documenting that the SWM facilities have been constructed as specified, including writin MEASUREMENT AND PAYMENT. Access Road with Cellular Confinement Load Support System will be measured and paid for at the Contract unit price per square yard for Access Road with Cellular Confinement Load Support System. The payment will be fall compensation for funnishing and instillation of all goodestife, geograf, aggregate, peps, Indenors, pins, staples, and for all material, Botto, equipments, took, and inschedulars (secondary to complete them and activity inspection reports, taking photographs, and obtaining copies of material approvals and Geogrid. Non-woven geotextile strips thermo-welded into a cellular system. Cells shall be at least 2 in. long, 4 1/4 in. wide, and 2 in. deep. When extended, the grid shall cover at least 107 sq. CONSTRUCTION, Prepare subgrade per 20103 and 211.03.02. Place gootenide on the prepared surface for the full width of the area to be covered. Unroll the gootenide particle of the beel line. Do not duty the gootenide amon the grade. Remove writakes applications, the produces of the surface of the produces for all ordine and not find event of the surface of the Topsoil will be measured and paid for per 701.04. 317.81.02 SWM Facility As-Built Certification Package. The SWM facility as-built certification package contains documentation that verifies that that all SWM facilities and practices on the Contract have been constructed as specified or are functionally equivalent to be designs in the approved SWM Report. (6) Pences. Includes fence that surrounds the footprint of the SWM facility or practic (8) Forces, Includes force the surrounds the looperint of the SNM facility or practice. OF SNM Facility Policies. Includes an every of genes fine as-shift date on SNM facility profiles and pipical sections including but not limited to short, dam specific, short, dam special content of facilities. Includes an every clear state, such date may be circulated, neglect and most fine facilities. Surrounds are profiled for such dates specially considered and soft disclarates, material types, day one dimension, and cut off trench dimension. Date that cannot be obtained from a field survey shall be provided by the ARE. for inclusion with the SNM facility as below turney. Turfgrass Establishment will be measured and paid for per 705.04 Replacement of damaged geotextile with undamaged geotextile will be at no additional cost to the (I) The SWM facility identification number (BMP Na or SWM Fac. No.) and type of SWM facility or marrier. (8) Certification. Stal, signature, license number, and date of license expiration of the PLS who completes the SWM facility as-built survey. 317 STORMWATER MANAGEMENT (SWM) FACILITY NS-BUILT CERTIFICATION 317 STORMWATER MANAGEMENT (SWM) FACILITY AS-BUILT CERTIFICATION (g) Applicable supporting computation demonstrating that the functionality of the SWM facilities and practices most the approved despites a presented in the approved SWM Report. This is odly accessively when inferences are not set and shall include but in one fitted to warm nature elevations, furthermore, support of symmetry, and other pertinent SWM functionality data that demonstrates the SWM facility performance ment the approved despite and the state of (d) Pipe Inverts. Elevations within 1.25 in. (0.10 ft) of values specified. (e) Rigrap. Dimensions within 3 in. (0.25 ft) of values specified (f) Freeboard. Not less than the values specified. (g) Aggregan, Sand, Biovenention Soil Mix (BSM), and Mulch Thicknesses. Not less than values specified. (b) A numerics of justification for as well deviations in SWM facilities and practices. This is only necessary when 317.01.02 (g) applies specified.
When commencious informance cannot be not due to sufferences site conditions or constraints, resoure that calculations are porference by the ARR per 31 ToTAT (a) white proceeding with the sent communities activity procedured with the feature communities activity procedured with the feature communities activity procedured with the feature communities and the sent that the SPAM facilities on the sent ment for functional presenters in the approach Feature SPAM facilities of the sent ment for functional presenters in the approach graduated sent formation and presented the SPAM facilities alone with the function sent the final-configuration. This is not provided for the first the sent formation activities are sent final-configuration and the sent formation and present formation and the sent formation and the sent final-configuration and the sent formation and the sent formation and the sent formation and the sent final-configuration and the sent final-configuration and the sent formation and the sent final-configuration and the sent f orditions or constraints and not due to negligence and inasequate quality of work, crase work on SWM (f) A copy of Final Acceptance from the Administration's Landscape Programs Division for the Interests and more on requests.

You completion of construcing SWM facilities and praction, perform an arbailt survey of the completed facility per 317.0182 (f). Complete installation and outablishment of landscaping items need not be completed to perform the as built survey of SWM facilities and practices. (I) Seal, signature, Scenar number, and date of Scenar expiration of the ARE. ary persons to as short usery of SSM Assistance and practices.

The state of SSM Assistance the exclusions peaking per 27 E.M. St. Update SSM Assistance as had userepted that adjustment on market to address common that may be notwised.

TALESAM ASSE Resourables Conterne that and Systems and for the prince of the foreign of the SSM Assistance and the state of the state of the SSM Assistance and the state of the SSM Assistance and the state of the SSM Assistance and the SSM Assis 387.88.03 Information Supplied by the Alministration, Upon written request, the Administration will provide CADO files in DGN format and se approved Final SWM Report in PDF format to facilitate complicate of the SMM station and commotine parkage. Sometime reports over Engineer. STATEAR Melhanistics and Augenousl' Promes. Profession and commission of season for parkage stations and stations. Stationary and stations are stationary and stationary and stationary and stationary and complete on commission activates and season SMM facilities and parkage while of deep ord completion of commercials existing and stationary and stationary and according to the stationary and station UT AS MEASUREMENT AND PAYMENT AN IELECATION TO AN PAYMONT

Somewhat Measurement (PND) Facility As shall Confusion will not be measured but will be paid for at
the Counts Along our piece and incommonly distributed per the greener shallon. The presents with being
the Counts Along our piece and incommonly distributed per the greener shallon. The present will be a
the Counts of the greener shallon of the counts of the counts of the greener shallon of the counts of the counts of the shallong commons covered on the shallond SIMM
facilities as both conflicted public, revision to the SIMM facility as will conflicted public, or an
construction activities according to the counts of the SIMM facility as well conflicted public, or
construction activities according to the counts of the SIMM facilities are shall conflicted to the counts of the SIMM facilities are shall conflicted to the counts of the SIMM facilities are shall conflicted to the counts of the SIMM facilities are shall conflicted to the counts of the SIMM facilities are shall conflicted to the counts of the SIMM facilities are shall conflicted to the shall be shall be considered to the counts of the shall be shall be considered to the counts of the shall be shall be considered to the counts of the shall be shall be considered to the counts of the shall be shall be considered to the shall be sh (b) Prepares written impection reports for construction activities associated with SWM facilities and practices. The ABE may elect to use a designer as specified in 317.01.00. the regions were some superior segons for commention activities according to the SSM facilities and practice. The All Ford service was found any other to are flattering regions of the 15 for flattering of the 15 for flattering and practice. The All Ford service was found to 15 for flattering and 15 for flat all Agencial.

An Agencial Association of STAM facility on both purkage with response to all Administration commons that may be arrived. Resolution as many times as recently, epidening the STAM facility as both plackage as method address all Administrations comments, and allowing my feet all adjustments as method to comment. Administration will consider the Administration of STAM facility pages maybe allow the Administration will consider the revised formation will study. Administration will consider the revised formation will study. io adjustment to the payment schedule will be made for partial submitals of the SWM facility as-built The Administration will constitute review and correspondence with NULL Conceivers with the Administration review of the SPMS facility as built confidence package for Structural Acceptance, ensure enablishment of land-caping items continues and ensure the area in personantity stabilities. Once land-caping it enablished, ensure the remaining data stable information is completed and submit the SPMS facility as with confidencing package for Final Approval. Submit the SWM facilities as-built packagebrough the Quality Assurance (QA) Toolkit. 317.82 MATERIALS 7.88.82 Construction Tolerances. As follows, Values outside of solerance may require com y 317.03.01(g). (b) Embankments, Clay Cores, and Cut-Off Trenches. Elevations not less than the value (e) Drainage Structures. Elevations within 1.25 in (0.10 ft) of values specified. 2019 Standard Specifications for Construction and Materials 2019 Standard Specifications for Construction and Materials MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING INTERSECTION IMPROVEMENTS GAITHERSBURG, MARYLAND

Seannett / GPI

SCALE : AS SHOWN

DPS SC/SWM PERMIT SHEET NO.

RECOMMENDED FOR APPROVAL

Designed by: <u>ECW</u> Drown by: <u>ECW</u> Checked by: <u>JMA</u>

Chief, Design Section APPROVED

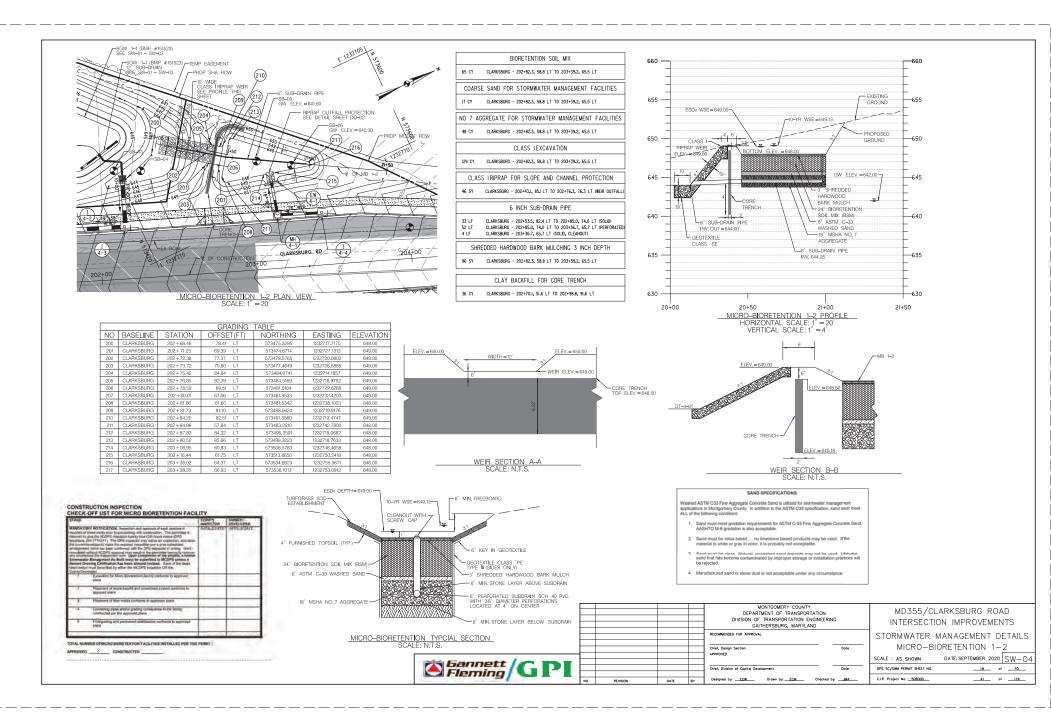
MD355/CLARKSBURG ROAD

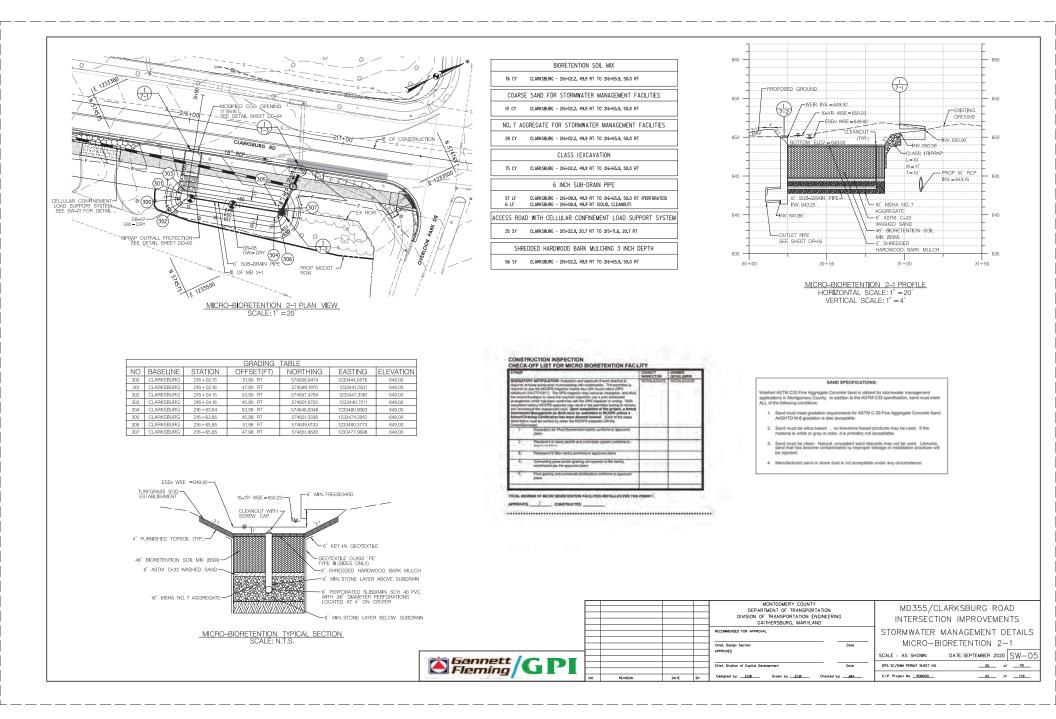
STORMWATER MANAGEMENT DETAILS SUBMERGED GRAVEL WETLAND 1-1

DATE: SEPTEMBER 2020 SW-03

__18___ of __45__

_____40____of ____119___





STANDARD EROSION AND SEDIMENT CONTROL NOTES

- 1. THE PERMITTEE SHALL NOTIFY THE DEPARTMENT OF PERMITTING SERVICES (DPS) FORTY-EIGHT (48) HOURS BEFORE COMMENCING ANY LAND DISTURBING ACTIVITY AND LINLESS WAIVED BY THE DEPARTMENT. SHALL BE REQUIRED TO HOLD A PRE-CONSTRUCTION MEETING BETWEEN THEM OR THEIR REPRESENTATIVE, THEIR ENGINEER AND AN AUTHORIZED REPRESENTATIVE OF THE DEPARTMENT
- THE PERMITTEE MUST OBTAIN INSPECTION AND APPROVAL BY DPS AT THE FOLLOWING POINTS:
- AT THE REQUIRED PRE-CONSTRUCTION MEETING.
 FOLLOWING INSTALLATION OF SEDIMENT CONTROL MEASURES AND PRIOR TO ANY OTHER LAND DISTURBING ACTIVITY
- DURING THE INSTALLATION OF A SEDIMENT BASIN OR STORMWATER MANAGEMENT STRUCTURE AT THE REQUIRED INSPECTION POINTS (SEE INSPECTION CHECKLIST ON PLAN), NOTIFICATION PRIOR TO COMMENCING CONSTRUCTION IS MANDATORY.
- RIOR TO REMOVAL OR MODIFICATION OF ANY SEDIMENT CONTROL STRUCTURE(S).
- PRIOR TO FINAL ACCEPTANCE
- THE PERMITTEE SHALL CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES PER THE APPROVED PLAN AND CONSTRUCTION SEQUENCE, SHALL HAVE THEM INSPECTED AND APPROVED BY THE DEPARTMENT PRIOR TO BEGINNING ANY OTHER LAND DISTURBANCES, SHALL ENSURE THAT ALL RUNOFF FROM DISTURBED AREAS IS DIRECTED TO THE SEDIMENT CONTROL DEVICES, AND SHALL NOT REMOVE ANY EROSION OR SEDIMENT CONTROL MEASURE WITHOUT PRIOR PERMISSION FROM THE DEPARTMENT
- 4. THE PERMITTEE SHALL PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ONTO TRAVERSED PUBLIC THOROUGHEARE(S). ALL MATERIALS DEPOSITED ONTO PUBLIC THOROUGHEARE(S) SHALL BE REMOVED
- 5. THE PERMITTEE SHALL INSPECT PERIODICALLY AND MAINTAIN CONTINUOUSLY IN EFFECTIVE OPERATING CONDITION. ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL SUCH TIME AS THEY ARE REMOVED WITH PRIOR PERMISSION FROM THE DEPARTMENT. THE DAMAGED OR REMOVED BY THE PERMITTEE OR ANY OTHER PERSON.
- 6. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED
- A. THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO I VERTICAL (3:1); AND SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADIN
- ALL AREAS DISTURBED OUTSIDE OF THE PERIMETER SEDIMENT CONTROL SYSTEM MUST BE MINIMIZED AND STABILIZED IMMEDIATELY MAINTENANCE MUST BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION
- THE PERMITTEE SHALL APPLY SOD, SEED, AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES TO ALL DISTURBED AREAS WITHIN SEVEN (7) CALENDAR DAYS AFTER STRIPPING AND GRADING ACTIVITIES HAVE CEASED ON THAT AREA MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION. ACTIVE CONSTRUCTION AREAS SUCH AS BORROW OR STOCKPILE AREAS, ROADWAY IMPROVEMENTS, AND AREAS WITHIN FIFTY (50) FEET OF A BUILDING UNDER CONSTRUCTION MAY BE EXEMPT FROM THIS REQUIREMENT, PROVIDED THAT EROSION AND SEDIMENT CONTROL MEASURES ARE INSTALLED AND MAINTAINED TO PROTECT THOSE AREAS.
- 8. PRIOR TO REMOVAL OF SEDIMENT CONTROL MEASURES, THE PERMITTEE SHALL STABILIZE ALL CONTRIBUTORY DISTURBED AREAS WITH REQUIRED SOIL AMENDMENTS AND TOPSOIL, USING SOD OR AN APPROVED PERMANENT SEED MIXTURE AND AN APPROVED ANCHORED MULCH, WOOD FIBER MULCH MAY ONLY BE USED IN SEEDING SEASON WHEN THE SLOPE DOES NOT EXCEED 10% AND GRADING HAS BEEN DONE TO PROMOTE SHEET FLOW DRAINAGE. AREAS BROUGHT TO FINISHED GRADE DURING THE SEEDING SEASON SHALL BE PERMANENTLY STABILIZED WITHIN SEVEN (7) CALENDAR DAYS OF ESTABLISHMENT. WHEN PROPERTY IS BROUGHT TO FINISHED GRADE DURING THE MONTHS OF NOVEMBER THROUGH FERRUARY. AND PERMANENT STABILIZATION IS FOUND TO BE IMPRACTICAL, AN APPROVED TEMPORARY SEED AND STRAW ANCHORED MULCH SHALL BE APPLIED TO DISTURBED AREAS. THE FINAL PERMANENT STABILIZATION OF SUCH PROPERTY SHALL BE COMPLETED PRIOR TO THE FOLLOWING APRIL 15
- 9. THE SITE PERMIT, WORK, MATERIALS, APPROVED SCISM PLANS, AND TEST REPORTS SHALL BE AVAILABLE AT THE SITE FOR INSPECTION BY DULY AUTHORIZED OFFICIALS OF MONTGOMERY COUNTY.
- 10. SURFACE DRAINAGE FLOWS OVER UNSTABILIZED CUT AND FILL SLOPES SHALL BE CONTROLLED BY EITHER PREVENTING DRAINAGE SON ACE DANIMORE LEONS OF A CONSTRUCTION OF THE STATE AND THE SLOPES OR BY INSTALLING MICHARD AT THE TOP OF CUT OR FILL SLOPES OF BY INSTALLING MICHARD AT THE TOP OF CUT OR FILL SLOPES UNTIL THE SLOPE AND DRAINAGE AREA TO IT ARE FULLY STABILIZED. AT WHICH TIME THEY MUST BE REMOVED AND FINAL GRADING DONE TO PROMOTI HEET FLOW DRAINAGE. MECHANICAL DEVICES MUST BE PROVIDED AT POINTS OF CONCENTRATED FLOW WHERE EROSION IS LIKELY
- 11 PERMANENT SWALES OR OTHER POINTS OF CONCENTRATED WATER FLOW SHALL BE STARILIZED WITHIN 3 CALENDAR DAYS OF ESTABLISHMENT WITH SOD OR SEED WITH AN APPROVED EROSION CONTROL MATTING OR BY OTHER APPROVED STABILIZATION
- 12. SEDIMENT CONTROL DEVICES SHALL BE REMOVED, WITH PERMISSION OF THE DEPARTMENT, WITHIN THIRTY (30) CALENDAR DAYS FOLLOWING ESTABLISHMENT OF PERMANENT STABILIZATION IN ALL CONTRIBUTORY DRAINAGE AREAS. STORMWATER MANAGEMENT STRUCTURES USED TEMPORARILY FOR SEDIMENT CONTROL SHALL BE CONVERTED TO THE PERMANENT CONFIGURATION WITHIN THIS TIME PERIOD AS WELL

STANDARD EROSION AND SEDIMENT CONTROL NOTES: CONTINUED

- 13. NO PERMANENT CUT OR FILL SLOPE WITH A GRADIENT STEEPER THAN 3:1 WILL BE PERMITTED IN LAWN MAINTENANCE AREAS OR ON NO FEMALE LOTS: A SLOPE GRADIENT OF UP TO 2: WILL BE PERMITTED IN NON-MAINTENANCE AREAS PROVIDED THAT THOSE AREAS
 ARE INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN WITH A LOW-MAINTENANCE GROUND COVER SPECIFIED FOR PERMANENT STABILIZATION, SLOPE GRADIENT STEEPER THAN 2:1 WILL NOT BE PERMITTED WITH VEGETATIVE STABILIZATION
- 14. THE PERMITTEE SHALL INSTALL A SPLASHBLOCK AT THE BOTTOM OF EACH DOWNSPOUT UNLESS THE DOWNSPOUT IS CONNECTED BY A DRAIN LINE TO AN ACCEPTABLE OUTLET
- 15. FOR FINISHED GRADING, THE PERMITTEE SHALL PROVIDE ADEQUATE GRADIENTS SO AS TO PREVENT WATER FROM STANDING ON THE SURFACE OF LAWNS MORE THAN TWENTY-FOUR (24) HOURS AFTER THE END OF A RAINFALL, EXCEPT IN DESIGNATED DRAINAGE COURSES AND SWALE FLOW AREAS, WHICH MAY DRAIN AS LONG AS FORTY-EIGHT (48) HOURS AFTER THE END OF A RAINFALL.
- 16. SEDIMENT TRAPS OR BASINS ARE NOT PERMITTED WITHIN 20 FEET OF A BUILDING WHICH IS EXISTING OR UNDER CONSTRUCTION, NO BUILDING MAY BE CONSTRUCTED WITHIN 20 FEET OF A SEDIMENT TRAP OR BASIN.
- 17. ALL INLETS IN NON-SUMP AREAS SHALL HAVE ASPHALT BERMS INSTALLED AT THE TIME OF BASE PAVING ESTABLISHMENT
- 18. THE SEDIMENT CONTROL INSPECTOR HAS THE OPTION OF REQUIRING ADDITIONAL SEDIMENT CONTROL MEASURES, AS DEEMED NECESSARY.
- 19. ALL TRAP ELEVATIONS ARE RELATIVE TO THE OUTLET ELEVATION, WHICH MUST BE ON EXISTING UNDISTURBED GROUND.
- 20. VEGETATIVE STABILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS FOR SOIL FROSION
- 21 SEDIMENT TRAP(S)/RASIN(S) SHALL BE CLEANED OUT AND RESTORED TO THE ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO THE POINT OF ONE-HALF (1/2) THE WET STORAGE DEPTH OF THE TRAP/BASIN (1/4 THE WET STORAGE DEPTH FOR ST-III) OR WHEN REQUIRED BY THE SEDIMENT CONTROL INSPECTOR.
- 22. SEDIMENT REMOVED FROM TRAPS/BASINS SHALL BE PLACED AND STABILIZED IN APPROVED AREAS, BUT NOT WITHIN A FLOODPLAIN
- 23. ALL SEDIMENT BASINS AND TRAPS MUST BE SURROUNDED WITH A WELDED WIRE SAFETY FENCE. THE FENCE MUST BE AT LEAST 42 INCHES HIGH, HAVE POSTS SPACED NO FARTHER APART THAN 8 FEET, HAVE MESH OPENINGS NO GREATER THE TWO AND FOUR INCHES IN HEIGHT, WITH A MINIMUM OF 14 GAUGE WIRE, SAFETY FENCE MUST BE MAINTAINED IN GOOD CONDITION AT ALL TIMES.
- 24. NO EXCAVATION IN THE AREAS OF EXISTING UTILITIES IS PERMITTED UNLESS THEIR LOCATION HAS BEEN DETERMINED. CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK.
- 25. OFF-SITE SPOIL OR BORROW AREAS MUST HAVE PRIOR APPROVAL BY DPS.
- 26. SEDIMENT TRAP/BASIN DEWATERING FOR CLEANOUT OR REPAIR MAY ONLY BE DONE WITH THE DPS INSPECTOR'S PERMISSION. THE INSPECTOR MUST APPROVE THE DEWATERING METHOD FOR EACH APPLICATION. THE FOLLOWING METHODS MAY BE CONSIDERED A. PUMP DISCHARGE MAY BE DIRECTED TO ANOTHER ON-SITE SEDIMENT TRAP OR BASIN, PROVIDED IT IS OF SUFFICIENT VOLUME
- AND THE PUMP INTAKE IS FLOATED TO PREVENT AGITATION OR SUCTION OF DEPOSITED SEDIMENTS; OR B. THE PUMP INTAKE MAY UTILIZE A REMOVABLE PUMPING STATION AND MUST DISCHARGE INTO AN UNDISTURBED AREA THROUGH
- NON-EROSIVE OUTLET; OR C. THE PUMP INTAKE MAY BE FLOATED AND DISCHARGE INTO A DIRT BAG (12 OZ. NON-WOVEN FABRIC), OR APPROVED EQUIVALENT, LOCATED IN AN UNDISTURBED BUFFER AREA.
- 27. THE PERMITTEE MUST NOTICY THE DEPARTMENT OF ALL LITHLITY CONSTRUCTION ACTIVITIES WITHIN THE PERMITTED LIMITS OF DISTURBANCE PRIOR TO THE COMMENCEMENT OF THOSE ACTIVITIES.
- 28. TOPSOIL MUST BE APPLIED TO ALL PERVIOUS AREAS WITHIN THE LIMITS OF DISTURBANCE PRIOR TO PERMANENT STABILIZATION IN ACCORDANCE WITH MDE "STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

AT-GRADE INLET PROTECTION ____AGIP WETLAND BUFFER BAFFLE BOARDS 100-YEAR FLOODPLAIN [ш]сві CATCH BASIN INSERT CMD - 12 ROCK OUTLET PROTECTION II CLEAR WATER DIVERSION PIPE NOTE DESIGNATION CHE-IZ REFERS TO CLEAR WATER DIVERSION WITH IZ INCH PIPE ROCK OUTLET PROTECTION II COMBINATION INLET PROTECTION COP SILT FENCE CURB INLET PROTECTION CIP CIP DIVERSION FENCE ----- DF -----SILT FENCE ON PAVEMENT EARTH DIKE PLACE DESIGNATION IN-L. B-2. 9702 ON PLOW CHANNEL SIDE EMERGENCY SPILLWAY ES MODIFIED STABILIZED CONSTRUCTION ENTRANCE FILTER BAG ØF8 STANDARD INLET PROTECTION |---FB-A---| |---FB-B---| FILTER BERM STOCKPILE AREA FILTER LOG MOTE DESIGNATION PLANETER STONE CHECK DAM GABION INFLOW PROTECTION GP STONE/RIPRAP OUTLET SEDIMENT TRAP ST GABION INLET PROTECTION [D] GIP SUBSURFACE DRAINS LIMIT OF DISTURBANCE —LOD— MEDIAN INLET PROTECTION [II]MP SUMP PIT ____WSIP MEDIAN SLIMP INLET PROTECTION SUPER SILT FENCE MOLINTARI E BERM TEMPORARY ACCESS CULVERT PERIMETER DIKE/SWALE ← PDS-I ← TEMPORARY ASPHALT BERM PERMANENT SOIL STABILIZATION MATTING-TYPE B TEMPORARY BARRIER DIVERSION PERMANENT SOIL STABILIZATION MATTING-TYPE C TEMPORARY GABION OUTLET STRUCTURE PIPE OUTLET SEDIMENT TRAP ST I ST-I PIPE SLOPE DRAIN NOTE DESIGNATION PSD-PLUNGE POOL ()PP PORTABLE SEDIMENT TANK ⊠PS1 REMOVABLE PLIMPING STATION RIPRAP INFLOW PROTECTION E RAP RIPRAP OUTLET SEDIMENT TRAP ST III ST-III ROCK OUTLET PROTECTION I ROPI SAME DAY STABLIZATION :::::

___ TPF ___

STANDARD SYMBOLS

ROPII

ROPIII

.....

[] SIP

ST-II

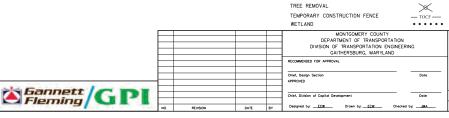
⊠sp

曲

_____ TAB____

TBD

TOOS



HOSE

TEMPORARY SOIL STABILIZATION MATTING-TYPE

TEMPORARY SOIL STABILIZATION MATTING-TYPE

TEMPORARY SOIL STABILIZATION MATTING-TYPE

TEMPORARY STONE OUTLET STRUCTURE

CONCRETE WASHOUT

TEMPORARY SWALE WASH RACK OPTION CHESAPEAKE BAY CRITICAL AREA DRAINAGE BOUNDARY EXISTING CONTOURS PROPOSED CONTOURS TREE PROTECTION FENCE

> MD355/CLARKSBURG ROAD INTERSECTION IMPROVEMENTS EROSION & SEDIMENT CONTROL GENERAL NOTES

DATE: SEPTEMBER 2020 ES-01 SCALE : NO SCALE DPS SC/SWM PERMIT SHEET NO. 43 of 119

SEQUENCE OF CONSTRUCTION

EROSION AND SEDIMENT CONTROL PHASE 1

- PROFE TO LELEARNO OF TREES INST. LEWIS SERVICE TO SERVICE SERVICE OF GRADING, A PRE CONSTRUCTION SERVICES OF GRADING, A PRE CONSTRUCTION SERVICES MCDEYS SERVICES OF THE OWNERS REPRESENTATIVE SERVICES MCDEYS SERVICES OF THE METERS OF THE METERS OF THE METERS OF THE OWNERS REPRESENTATIVE AND THE STEE SERVICES OF THE METERS OF THE METERS OF THE METERS OF THE OWNERS REPRESENTATIVE APPROVED SERVICES OF THE OWNERS REPRESENTATIVE OF THE OWNERS REPRESENTATIVE OF THE OWNERS REPRESENTATIVE OF THE OWNERS REPRESENTATIVE OF THE SERVICE SERVICES OF THE OWNERS REPRESENTATIVE OF THE OWNERS REPRESENTATIVE OWNERS SERVICES OF THE OWNERS REPRESENTATIVE OF THE OWNERS REPRESENTATIVE OWNERS AND THE OWNERS REPRESENTATIVE OF THE OWNERS REPRESENTATIVE OWNERS AND THE OWNERS AND THE OWNERS REPRESENT OWNERS.
- THE LIMITS OF DISTURBANCE MUST BE FIELD MARKED PRIOR TO CLEARING OF TREES, INSTALLATION OF SEDIMENT CONTROL MEASURES, CONSTRUCTION, OR OTHER LAND DISTURBING ACTIVITIES.

- PERFORM PERANNENT STABILIZATION TO THE OUT FALL OF BY H. AND DOWNSTEAM CHANNEL WITH THE WRITTEN APPROVAL DOWNSTEAM CHANNEL OF THE HILL OF THE CONSTRUCTION OF THE BILL OF THE CHANNEL OF T
- CONTRACTOR MAY PERFORM WEDGE AND LEVEL OPERATIONS AS SHOWN IN MOT STAGE 1 OPERATIONS. CONTRACTOR MAY INSTALL STAGE 2 MOT CONTROLS ASSOCIATED WITH MOT STAGE 2 OPERATIONS.
- INSTALL SCE 1-2 AND ALL REMAINING PERIMETER CONTROLS AS SHOWN ON E&S PHASE I PLANS (CWDP I-3, DF I-3, SB I-2, AND TRR I-2). THE EXISTING 36" RCP CULVERT SHALL BE USED AS A CLEARWATER DIVERSION BYPASS DURING PHASE I.
- INSTALL TGOS 1-1, TS 1-1, DF 1-4, SSF 1-1, SF 1-1, AND CWO 1-1, ONCE THE SEDIMENT CONTROL DEVICES ARE INSTALLED, THE PERMITTER MUST OBTAIN WRITTEN APPROVAL FROM THE MCDPS INSPECTOR BEFORE PROCEEDING WITH ANY ADDITIONAL CLEARING, GROBBING, OR GRADING.
- BEGIN GRADING FOR MICRO-BIORETENTION MB 1-2. BEGIN GRADING AND PAVING FOR ROADWAY AND SIDEWALK SECTIONS AS SHOWN ON EAS PHASE I PLANS. CONSTRUCT STORM BRAIN FW 4-1 TO 1-4. DURING A NOAA FORECASTED 3 DAY DRY PERIOD STABILIZE THE AREAD RANNING TO MB 1-2 AND DISTALL THE FILTER BURDLO OF MB 1-2. MINIMED AS FELTON, INSTALL LIST FERICE 1-2. ONCE THE MEDIA HAS BEEN INSTALLED THE CONTRACTOR SHALL PROVIDE ADDITIONAL PROTECTION TO THE AREA NOT TO ALLOW FOR SEDIMENT LADON RONOT TO DISTRET HE FACELITY.
- 12. PERFORM REMAINING GRADING ASSOCIATED WITH PHASE I. ONCE ALL CONSTRUCTION ASSOCIATED WITH PHASE I E&S IS PERMANENTLY STABILIZED AND WITH THE WRITTEN APPROVAL OF THE DPS INSPECTOR ALLOW RUNOFF TO ENTER I 4-2 AND I 4-3. REMOVE TGOS I-1, CVWD I-3, DF I-4, DF I-3, EPI I-4, DF I-2, EPI I-3, EPI I-4, DF I-4, DF I-3, EPI I-4, DF I-4, DF I-3, EPI I-4, DF I-4, DF
- MAINTAIN SCE 1-2, CWO 1-1 CWOP 1-1, CWOP 1-2, TOCF 1-1, AND TRR 1-1 TO BE USED DURING EAS PHASE 2 CONSTRUCTION ACTIVITIES. PROCEED TO EAS
 PHASE 2 WITH THE WRITTEN APPROVAL OF THE DPS INSPECTOR.

- BEGIN GRADING ASSOCIATED WITH THE CONSTRUCTION OF THE SUBMISSIGN CRAVIL WITLAND SKIN 1-1. CONSTRUCT IS SET TO THE CONSTRUCT STORM OF A SYSTEM FROM MISE 17 ON MISE 2-NOT THAT THIS STORM DANGED CONSTRUCTION ON THE STRUCTION OF THE SESSION MASSIGN ENHANCED CONTRACTOR MIST (SPECIAL PROPERTY OF THE OTHER PRICE AND THE DEVELOY OF THE OTHER PRICE AND THE PRICE AND THE DEVELOY OF THE OTHER PRICE AND THE OTHER P
- 18. STABILIZE ALL CONSTRUCTION AREAS, ALLOW RUNOFF INTO MH 9-1 FROM MH 9-2 AND BLOCK FLOW FROM MH 9-2 TO ES 9-1.
- ONCE ALL CONSTRUCTION ASSOCIATED WITH PHASE 2 E&S IS PERMANENTLY STABILIZED AND WITH THE WRITTEN APPROVAL OF THE DPS INSPECTOR REMOVE ALL SEDIMENT CONTROL MEASURES. MAINTAIN CWOP 1-1, CWOP 1-2 AND TRR 1-1 TO BE USED DURING EAS PHASE 3 CONSTRUCTION ACTIVITIES. PROCEED TO LESS PHASE 3 WITH THE WRITTEN APPROVAL OF THE DPS INSPECTOR.

- RISTALL SEE H, 48 H, 480 P, E. WITH ASSOCIATED PAID NOISES. PERFORM FINAL GRADING AND INSTALL MEID, 1905 CRIF I, IN A SAME DAY STABILIZATION MANNER, REMOVE THE EXEMINACIDATE AND ADDINISTRAM FROD MALL SEEK WILL AND EX WE JOST PHE RISTING SOFE REMOVE THE SECTIONS OF WE RETUDE DESIGNING ROAD EXECUTION OF THE THE DESTROYS OF WE RETUDE DESIGNING ROAD EXECUTION OF THE THE DESTROYS OF WE RETUDE THE SECTIONS OF WE RETUDE THE DESTROYS OF WE RETURN FOR THE DESTROYS OF WE RETURN FOR
- CONSTRUCT THE ROADWAY AND SIDEWALK AS SHOWN IN PHASE 3 PLANS IN A SAME DAY STABILIZATION MANNER AND PROVIDE PERMANENT STABILIZATION.
 ONCE ALL CONSTRUCTION ACTIVITIES ASSOCIATED WITH PHASE 3 ARE PERMANENTLY STABILIZED AND WITH THE WRITTEN APPROVAL OF THE DPS INSPECTOR PROCEED
 TO EAS PHASE 4.

EROSION AND SEDIMENT CONTROL PHASE 4

- 22. INSTALL ALL MOT STAGE 4 DEVICES, DURING A NOAA FORECASTED 5 DAY DRY PERIOD, CONSTRUCT STORM DRAIN FROM MH 3-T TOL 1-5. INSTALL INLET PROTECTION SIP 4-5 IMMEDIATELY AFFER 1-5 IS INSTALLED AS SHOWN ON THE PLANS. TEMPORARILY BLOCK FLOW FROM BETTERING TWO OTHER UPSTREAM OPENINGS IN MH 1-2.
- DERING A NOAA FORECASTED 1 DAY DRY PERIOD INSTALL MDF 4-1, MDF 4-2, AND SBD 4-1 WITH ASSOCIATED.

 OCCUPANT OF THE SECOND OF THE
- 24. REMOVE CWDP 1-1 AND CWDP 1-2. CONSTRUCT STORM DRAIN SECTION FROM MH 3-1 TO 1 3-4. REMOVE EXISTING 36" CULVERT HEADWALL AND FILL PIPE WITH FLOWABLE FILL AND BULKHEAD.
- CONSTRUCT REMAINING STORM DRAIN SYSTEM FROM MH3-1 TO 18-1, 13-6 TO MH3-2, AND FROM MH3-2 TO 15-2. INSTALL ALL INLET PROTECTIONS IMMEDIATELY AFTER THE INLET INSTALLATIONS AS SHOWN ON THE PLANS. AS EACH INLET PROTECTION IS INSTALLED ALL WORK UPSTREAM OF THAT INLETC AND BE COMPLETED. A PITER STORM FROM IS CONSTRUCTED, INSTALLATE 1-1 THROUGH 4-15-1 THRO
- BEGIN CONSTRUCTION OF STORM DRAIN SYSTEM FROM 17-3 TO 17-2. INSTALL SIP 4-14 AND CIP 4-12 IMMEDIATELY AFTER THE INLET INSTALLATIONS AS SHOWN ON THE PLANS. BEGIN CONSTRUCTION OF STORM DRAIN SYSTEM FROM 17-3 TO 16-2. INSTALL CIP 4-10 AND 4-11 IMMEDIATELY AFTER THE INLET INSTALLATIONS AS SHOWN ON THE PLANS. AS STORM DRAIN SYSTEM IS INSTALLED ASST 1-1, INSTALLATIONS AS SHOWN ON THE PLANS. AS STORM DRAIN SYSTEM IS INSTALLED ASST 1-1, INSTALLATION AS SHOWN ON THE PLANS. AS STORM DRAIN SYSTEM IS INSTALLED ASST 1-1, INSTALLATION AS SHOWN ON THE PLANS. AS STORM DRAIN SYSTEM IS INSTALLATION.
- PERFORM SURFACE GRADING FOR MICRO-BIORETENTION MB 2-1 AND ALL CONSTRUCTION ASSOCIATED WITH THE ROADWAY, SIDEWALK, AND RETAINING WALL.
- 28. INSTALL MIDIA SECTION FOR MERCHIORETENTION FACILITY MID 2.1 IMMEDIATELY AFTER INSTALLING MIDIA SECTION, INSTALL SILTENCE 4.25 AND BLOCK FLOW TO 17-1. NO DISTURBER PROPERTS ALL DIACENT DISTURBANCE
 NO DISTURBER PROPERTS ALL DIACENT DISTURBANCE
 29. ALL AREAS DESIGNATED AS ASSURE DAY STABILIZATION SHALL BE CONSTRUCTED IN A SAME DAY.
 20. SECTION OF THE MEDIA SHALL BE CONSTRUCTED IN A SAME DAY STABILIZATION MANNER
 SECTION OF THE MEDIA SHALL BE STABILIZED WITH GRADED AGGREGATE BASE
 (GAB) ALL OTHER REAS ASSURED. BEST ABOUT A STABILIZED WITH GRADED AGGREGATE BASE
 (GAB) ALL OTHER REAS ASSURED. BEST ABOUT A STABILIZED WITH GRADED AGGREGATE BASE
 (GAB) ALL OTHER REAS ASSURED. BEST ABOUT A STABILIZED WITH GRADED AGGREGATE BASE
 (GAB) ALL OTHER REAS ASSURED. BEST ABOUT A STABILIZED WITH GRADED AGGREGATE BASE
- STABILIZE ALL PHASE 4 WORK AREA AND PERFORM FINAL LANDSCAPE INSTALLATION. REMOVE TEMPORARY BLOCK OF INLET 1.7-1.
 WITH THE WRITTEN APPROVAL OF THE DPS ESC INSPECTOR, REMOVE ALL ESC MEASURES ASSOCIATED WITH PHASE 4 OF ERROSION
 AND SEDIMENT CONTROL, PLAN, IMMEDIATELY AFTER CWD4 -1 IS REMOVED, PERMANENTLY CLOSO POPING IS 3-5 USED FOR CWD9 4-1.
- AND SECURIST CONTROL FLAN ISSUED LET HE REVEN THE RESERVE FEMALE AT THE AND THE RESERVE FEMALE AT THE RESERVE FEMALE FEMALE

GENERAL NOTES FOR SEQUENCE OF CONSTRUCTION

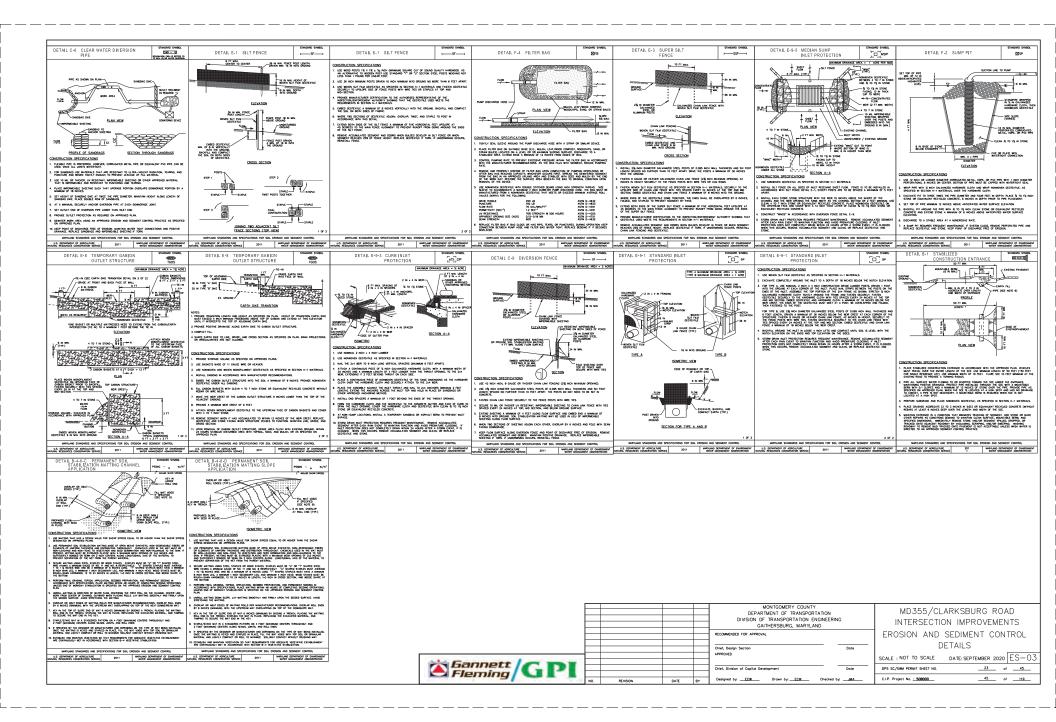
- STORM DRAIN SYSTEMS SHALL BE CONSTRUCTED FROM DOWNSTREAM ENDS UNLESS OTHERWISE NOTED ON THE PLANS. DITCHES AND STEEP SLOPES SHALL BE STABILIZED WITH SEEDING AND TYPE A SOIL STABILIZATION MATTING IMMEDIATELY AFTER FINAL GRADING.
- ONCE THE DRAINAGE AREA FOR THE STORM DRAIN SYSTEM IS STABILIZED, THE STORM DRAIN SYSTEM MUST BE FLUSHED, ANY TEMPORARY PIPES REMOVED, AND THE CONSTRUCTION OR UNBLOCKING OF ANY PERMANENT PIPES.
- 3. THE SEQUENCE OF CONSTRUCTION FOR EROSION AND SEDIMENT CONTROL SHALL BE COMPLETED IN THE FOLLOWING SEQUENCE AND IN ACCORDANCE WITH THE MAINTENANCE OF TRAFFIC PLANS.
- ANY DEVIATION FROM THE APPROVED SEQUENCE OR EROSION AND SEDIMENT CONTROL MEASURES MUST BE APPROVED BY MCDPS.
- THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND LOCATING A STORAGE AND STOCKPILE AREA. IF ADDITIONAL EROSION AND SEIDMENT CONTROL MEASURES ARE REQUIRED AS A RESULT OF THE LOCATION OF THE STORAGE AND STOCKPILE AREA THEN THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROVAL FOR THOSE MEASURES.
- ALL ABEAS DESIGNATIDA SAMEDAY STABILIZATION CHALL BE CONCERVETTED IN SAME DAY STABILIZATION ANAMBA NO BOSTONIURIA ARE SAME DAY STABILIZATION ANAMBA NOBI DAY BOSTONIURIA ARE SAME BARRA DE ARE TO EN SAME DAY STABILIZATION AND APPROVED SEDMENT CONTROL DEVICE. AREAS THAT ARE TO BE PAYED SHALL BE STABILIZED WITH GRADED AGREGATE BASE GABS, ALL OTHER AREAS SHALL BE STABILIZED ACCORDING TO SEN SPECIFICATION SECTION 7-4.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL INSPECTION REPORTS AND MATERIAL TICKETS THAT ARE
 TO BE PROVIDED FOR THE PREPARATION OF THE AS-BUILT PLANS.

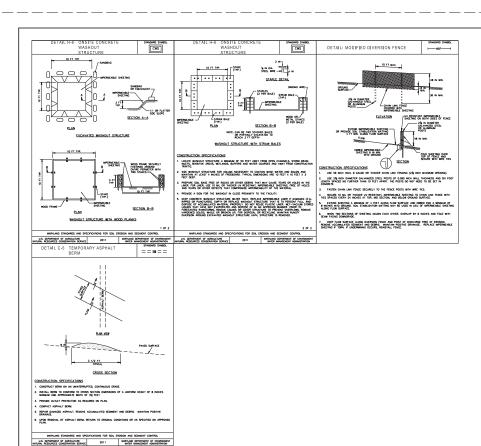
CE						
OL .					MONTGOMERY COUNTY	
	1			1	DEPARTMENT OF TRANSPORTATION	
					DIVISION OF TRANSPORTATION ENGINEERING	2
					GAITHERSBURG, MARYLAND	
				_	GATHERSBURG, MARTLAND	
	_			-	RECOMMENDED FOR APPROVAL	
	_			-		
				-		
					Chief, Design Section	Date
	1				APPROVED	
Sid Engagett / -						
Gannett GPI					Chief, Division of Capital Development	Date
Fleming /						
	NO.	REVISION	DATE	BY	Designed by: <u>ECW</u> Drown by: <u>ECW</u> Checked by:	JMA

INTERSECTION IMPROVEMENTS EROSION & SEDIMENT CONTROL SEQUENCE OF CONSTRUCTION

MD355/CLARKSBURG ROAD

SCALE : NO SCALE	DATE: SEPTEMBER 20	20	ES-02
DPS SC/SWM PERMIT SHEET NO.	22	of	45
C.I.P. Project No. : 508000	44	of	119





Maryland's Guidelines To Waterway Construction DETAIL 1.2: PUMP-AROUND PRACTICE

DESCRIPTI

THE WORK SHOULD CONSIST OF INSTALLING A TEMPORARY PUMP AROUND AND SUPPORTING MEASURES TO DIVERT FLOW AROUND INSTREAM CONSTRUCTION SITES.

IMPLEMENTATION SEQUENCE:

SEDIMENT CONTROL MEASURES, PUMP-AROUND PRACTICES, AND ASSOCIATED CHANNEL AND BANK CONSTRUCTION SHOULD BE COMPLETED IN THE FOLLOWING SEQUENCE (REFER TO DETAIL 1.2):

LCONSTRUCTION ACTIVITIES INCLUDING THE INSTALLATION OF EROSICN AND SELBMENT CONTROL MEASURES SHOULD NOT BEEN INTIL ALL INCESSARY ESSEMBITS AND/OR FRONT-CYF-MINE HAVE BEEN ACQUIRED, ALL ENSINES UTILITIES SHOULD BE AMBRED IN THE FIELD PRIFET TO CONSTRUCTION. THE CONTRICTION BY RESPONDING FOR AN DAMAGE TO DISTING UTILITIES THAT MAY RESILT FROM CONSTRUCTION AND SHOULD REPART THE DAMAGE AT HERHIS OWN EXPERTED TO ECOUNTY SE UTILITY COMPANY'S STRINGECTION.

2. THE CONTRICTOR SPEALD MOTIFY THE MAINTAIN DEPARTMENT OF THE ENHINMENT OF THAN SERVENT CONTRICTORS.

RESPECTION AT LOSTS SOME SERVER ERRORMUN CONTRICTOR MODIFICATION AND THE CONTRICTOR SHOULD INFORM HE CONTRICTOR SHOULD INFORM HE LOCAL ENHINMANDENTAL PROTECTION AND RESOURCE MANAGEMENT REPECTION AND ENFORCEMENT CHARGE AND THE PROVIDED OF LOCAL UTILITIES A MANAGEMENT REPORT STATEMENT CONSTRUCTION.

3. THE CONTRACTOR SHOULD CONDUCT A PRIE-CONSTRUCTION MEETING ON SITE WITH THE WAS SERIMENT CONTROL INSPECTOR THE COUNTY PROJECT MANAGER AND THE ENGINEER TO REMEW LIMITS OF DISTURBANCE, BROSEN AND SERIMENT CONTROL REQUIREMENTS, AND THE SEQUENCE OF CONSTRUCTION, THE CONTRACTOR SHOULD STATE OUT ALL LIMITS OF DISTURBANCE PRIOR TO THE PRIE-CONSTRUCTION MEETING SO THEY MAY BE RESHEED, THE PARTICIPANTS WILL AND DESIGNED THE CONTRICTOR'S SERIEM APERA AND FAM ALL RESES WITHIN THE LIMIT OF DISTURBANCE WITHIN THE REMANDED OFF CONTRICTORS SERIEM APERA AND FAM ALL RESES WITHIN THE LIMIT OF DISTURBANCE WITHINGT APPROVE, FROM THE WILL OF LOOK, AUTHORITY.

4. CONSTRUCTION SHOULD NOT BEGIN UNTIL ALL SEDIMENT AND EPOSION CONTROL MEASURES HAVE BEEN INSTALLED AND APPROVED BY THE ENGINEER AND THE SEDIMENT CONTROL, INSPECTIOR, THE CONTRACTOR SHOULD STAY WITHIN THE LIMITS OF THE DISTRIPANCE AS SHOWN ON THE PLANS AND IMMINES DESTRIPANCE WITHIN THE WORK APEX MYRENORY POSSIBLE.

S. LPON INSTALLATION OF ALL SEDMENT CONTROL MEASURES AND APPROVAL BY THE SEDMENT CONTROL INSPECTOR AND THE LOCAL ENVIRONMENTAL PROTECTION AND RESOURCE MANAGEMENT REPECTION AND BEFORE CONTROL INSPECTION AND RESOURCE MANAGEMENT REPECTION AND REPORTED AND THE SEDMENT OF A SERVICE OF CONTROL IN THE CONTROL OF THE SEDMENT OF A SERVICE OF CONTROL IN THE CONTROL OF THE SEDMENT OF THE S

6. SANDBAG DIKES SHOULD BE SITUATED AT THE UPSTREAM AND DOWNSTREAM ENDS OF THE WORK AREA AS SHOWN ON THE PUMP, AND STREAM FLOW SHOULD BE PUMPED AROUND THE WORK AREA. THE PUMP SHOULD DISCHARGE ONTO A STREAM FLOOR DESPATED HADO OF PRPAR OF SANDBAGS.

7. WATER FROM THE WORK AREA SHOULD BE PUMPED TO A SEDMENT FILTERING MEASURE SUCH AS A DEWATERING BASIN SEDMENT BAG OR OTHER APPROVED SCURICE THE MEASURE SHOULD BE LOCATED SUCH THAT THE WATER DEPAIRS BACK INTO THE CHANNEL BELOW THE COMMISTREMA SANDERG DIKE.

8. TRAVERSING A CHANNEL REACH WITH EQUIPMENT WITHIN THE WORK AREA WHERE NO WORK IS PROPOSED SHOULD BE AVOIDED. FE COUPMENT HAS TO TRAVERSE SUCH A REACH FOR ACCESS TO ANOTHER MEET, THOSE MIST OR SIMILAR MEASURES SHOULD BE USED TO MINUTED DISTURBANCE OF THE CHANNEL SENTOPROPEY STREAM FORCEMOS SHOULD BE USED ONLY WHEN NECESSARY AND CALLY WHEN EXCESSARY AND CALLY GREAT BY A WITH A STREAM CONSINGS, MEMORY GUIDELINS TO WATERIAWY CONSTRUCTION).

9. ALL STREAM RESTORATION MEASURES SHOULD BE INSTALLED AS INDICATED BY THE PLANS AND ALL BANKS GRADED IN ACCORDANCE WITH THE GRADING PLANS AND TYPICAL CROSS SECTIONS.

10. AFTER AN AREA IS COMPLETED AND STABLIZED, THE CLEAN WATER DIKE SHOULD BE REMOVED, AFTER THE FIRST SEDMENT FLUSH, A NEW CLEAN WATER DIKE SHOULD BE ESTABLISHED LYSTREAM FROM THE OLD SEDMENT LIKE, RINALLY, LYDNE STABLISHMENT OF A NEW SEDMENT DIKE SHOULD BE REMOVED.

THA FUND ARRIVAD WHET BE HERVILLED ON ANY TRIBUTIANY OF STOOM ORAN DITFILE WHETH CONTRIBUTED BRESTLOW TO THE WORK AREA HES SHOULD BE ACCOMMENSED BY LOCATIONS AS ROOMED ONE AT THE CONNETTION BROST THE TRIBUTIANY OR STOOM DEAN DUTFILL AND PLANING THE STREAM FLOW AROUND THE WORK AREA, THIS WATER SHOULD DECEMANDE KNOT THE SAME VELOCITY DESIRETER USED FOR THE WAYS TEST PUMP AROUND.

12, IF A THRUTARY IS TO BE RESTORED, CONSTRUCTION SHOULD TAKE PLACE ON THE THRUTARY BEFORE WORK ON THE MAIN STRM REACHES THE TRIBUTARY CONFLUENCE CONSTRUCTION IN THE THRUTARY INCLUDING PLANP AROUND PROFICINGS, SHOULD FOLLOW THE SAME SEQUENCE AS FOR THE MAIN STEM OF THE RHEN OF ISSTEMM, MENN CONSTRUCTION ON THE THRUTARY SECONDATION WORK ON THE MAIN STEM SHOULD RESUME, WATER FROM THE THRUTARY SHOULD CONTINUE TO BE FUNDED ANOWAD AND WORK AREA IN THE MAIN STEM.

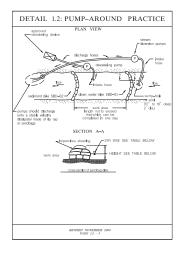
13. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ACCESS TO AND MAINTAINING ALL EROSION AND SEDIMENT CONTROL DEVICES INTILL THE SEDIMENT CONTROL INSPECTOR APPROVES THEIR REMOVAL.

14 AFTER CONSTRUCTION ALL DISTURBED AREAS SHOULD BE REGRADED AND REVEGETATED AS PER THE PLANTING PLAN.

TEMPORARY INSTREAM
CONSTRUCTION MEASURES

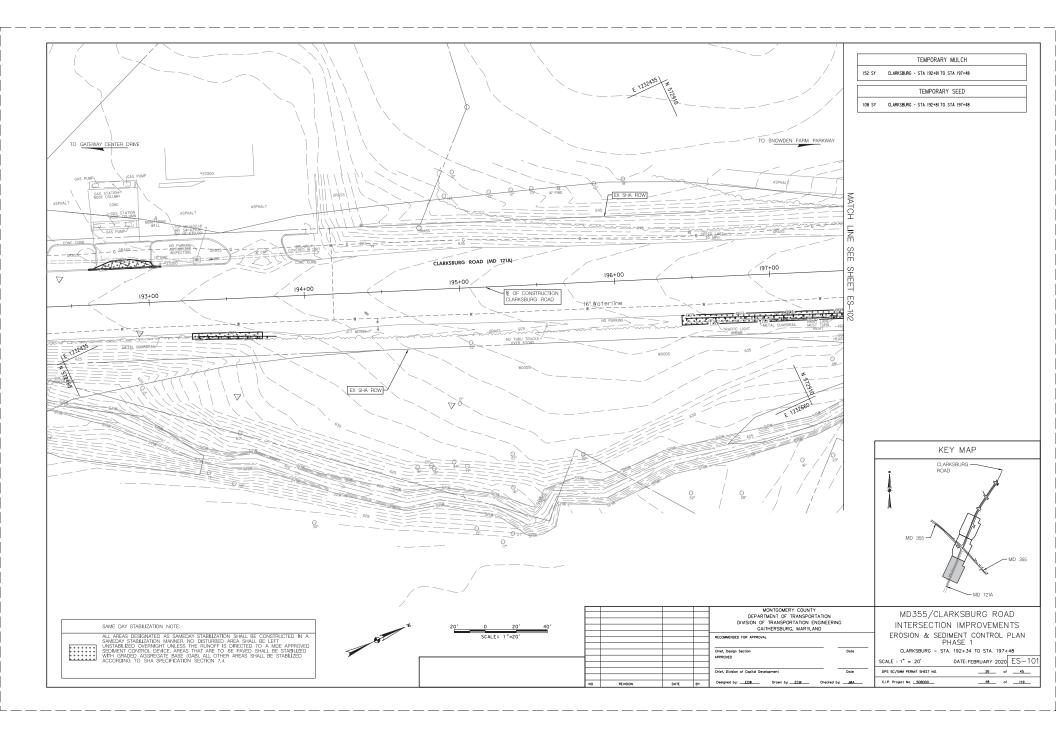
REVISED NOVEMBER 2000
PAGE 13 - 3

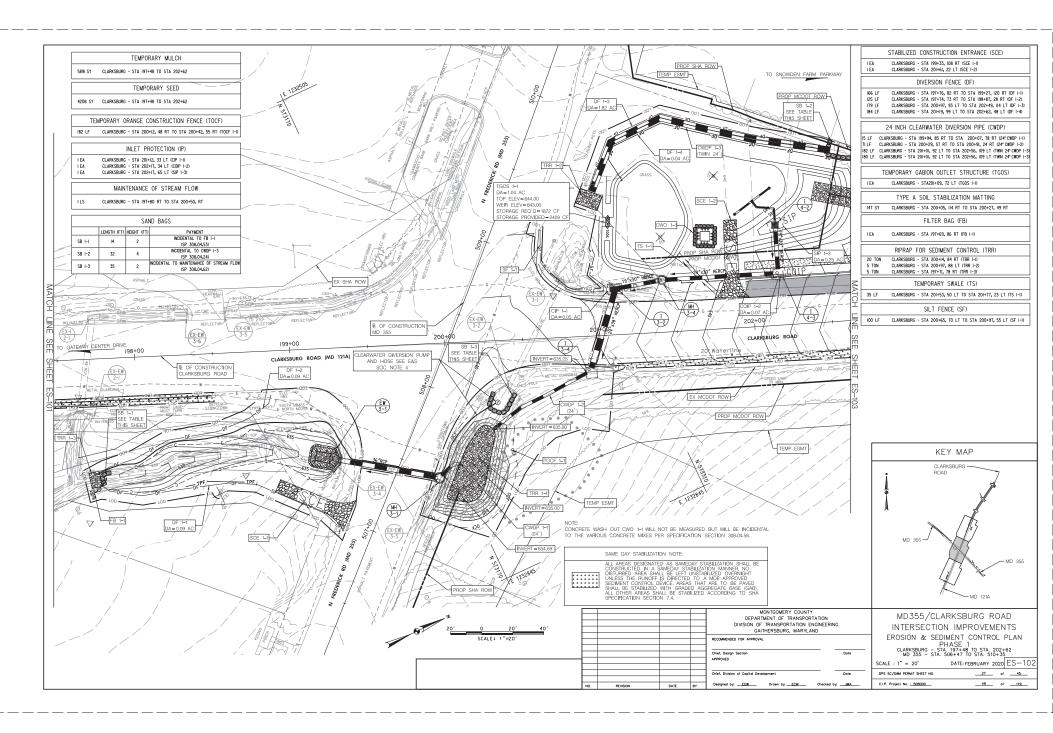
WATER MANAGEMENT ADMINISTRATION
WATER MANAGEMENT ADMINISTRATION

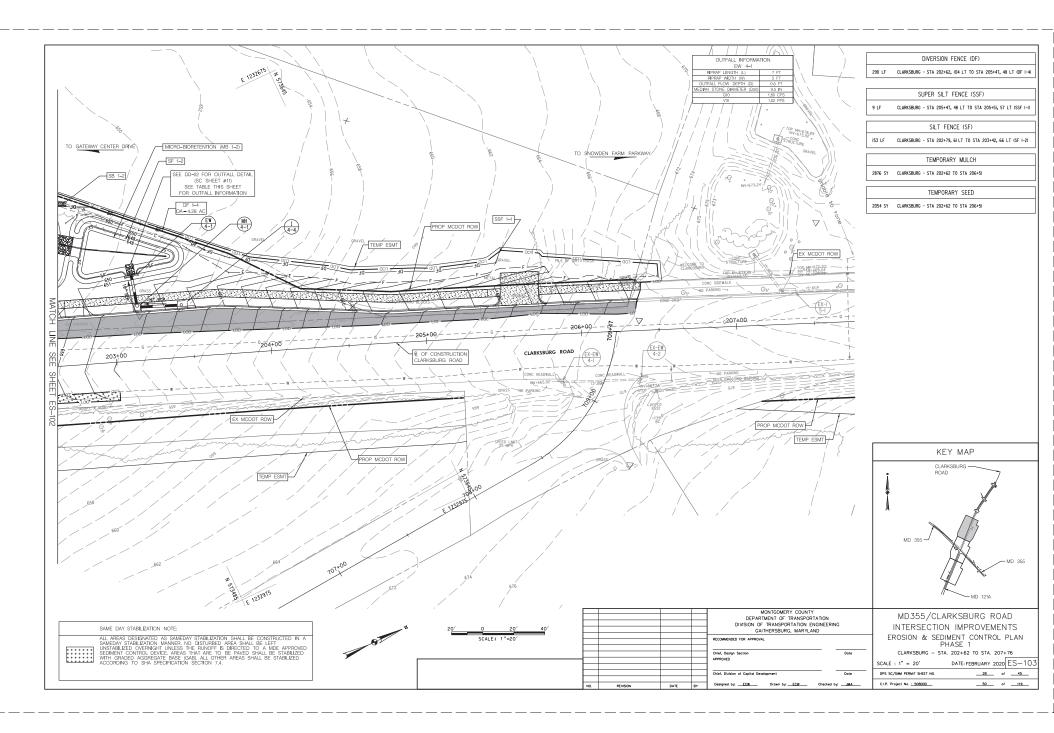


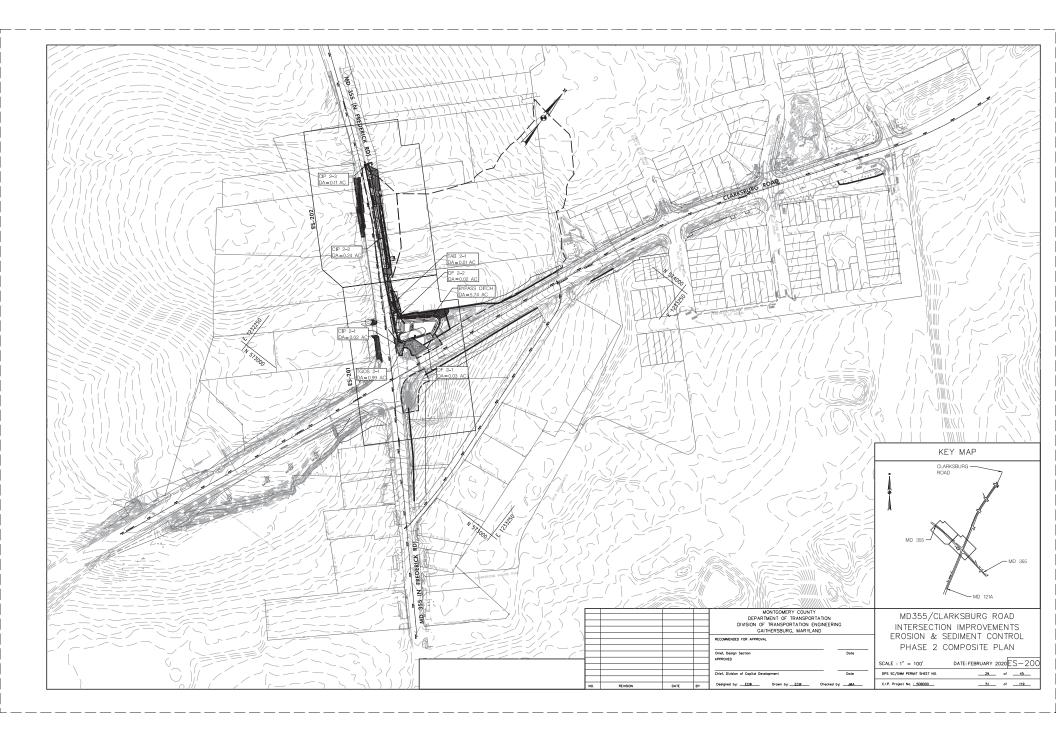


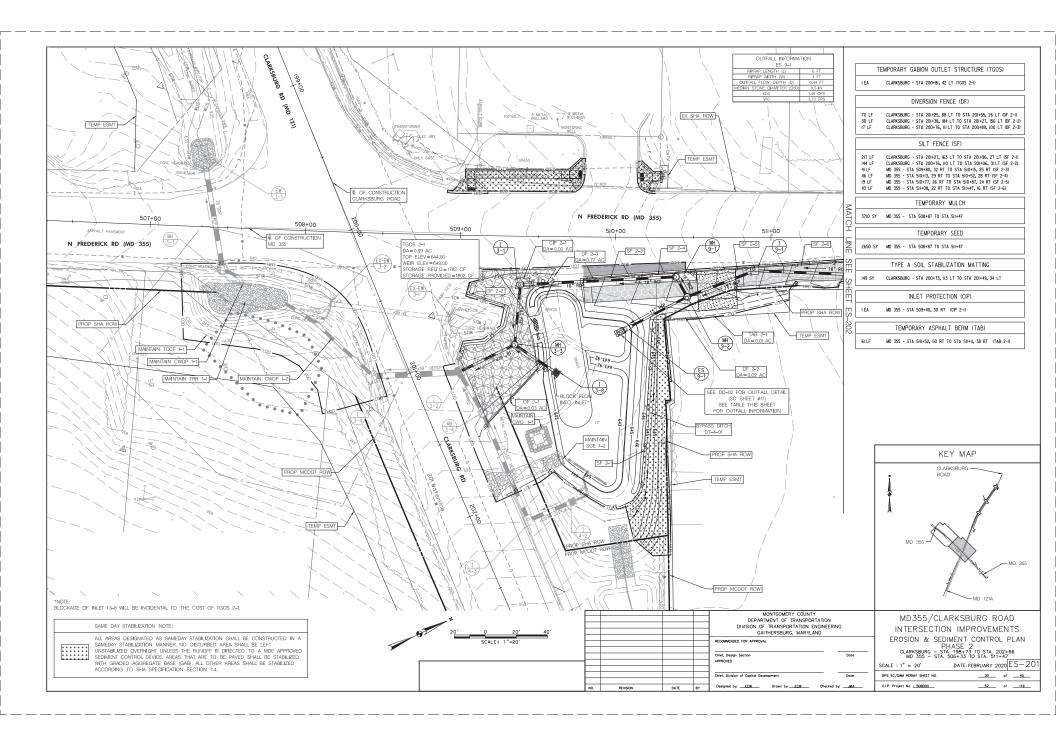


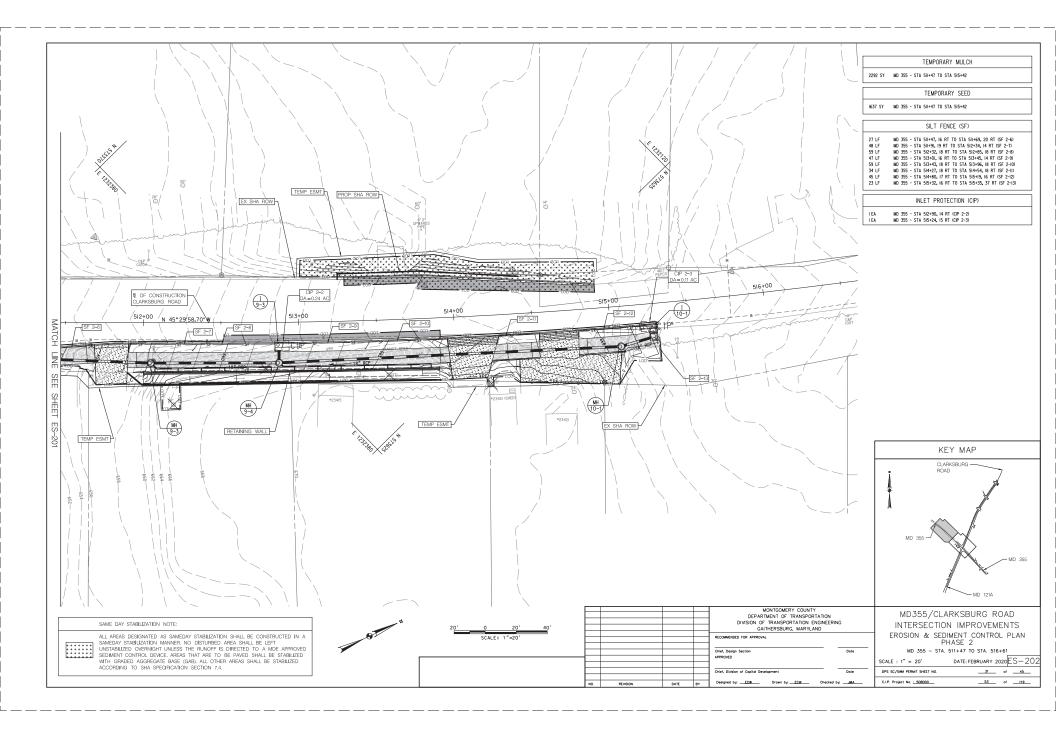


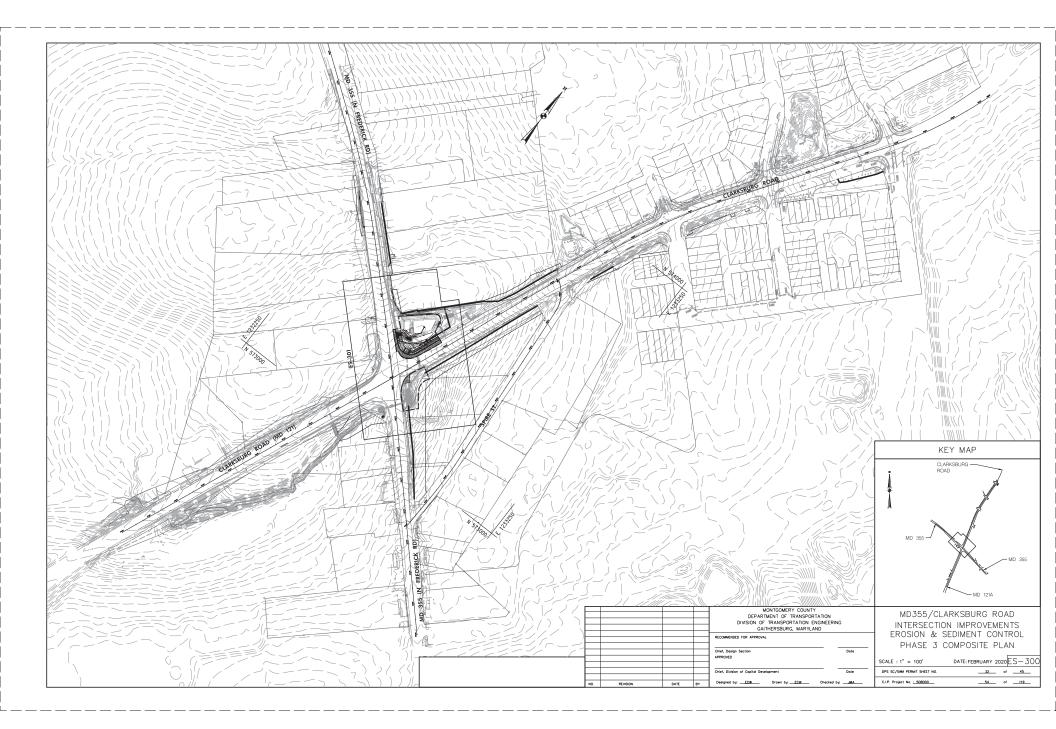


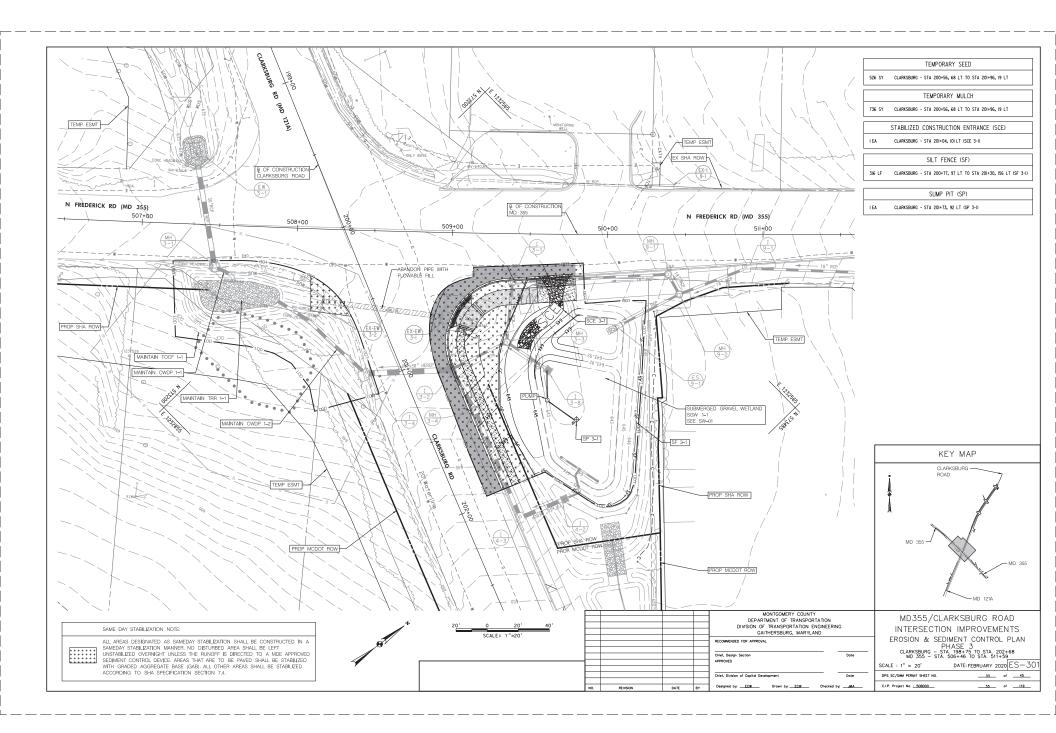


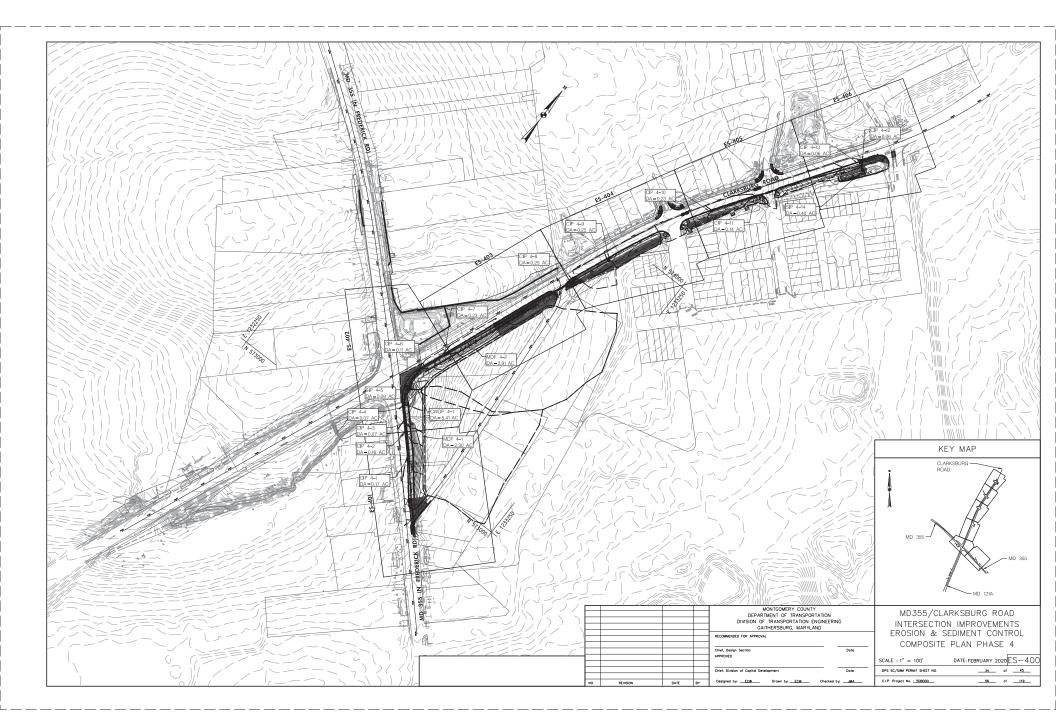


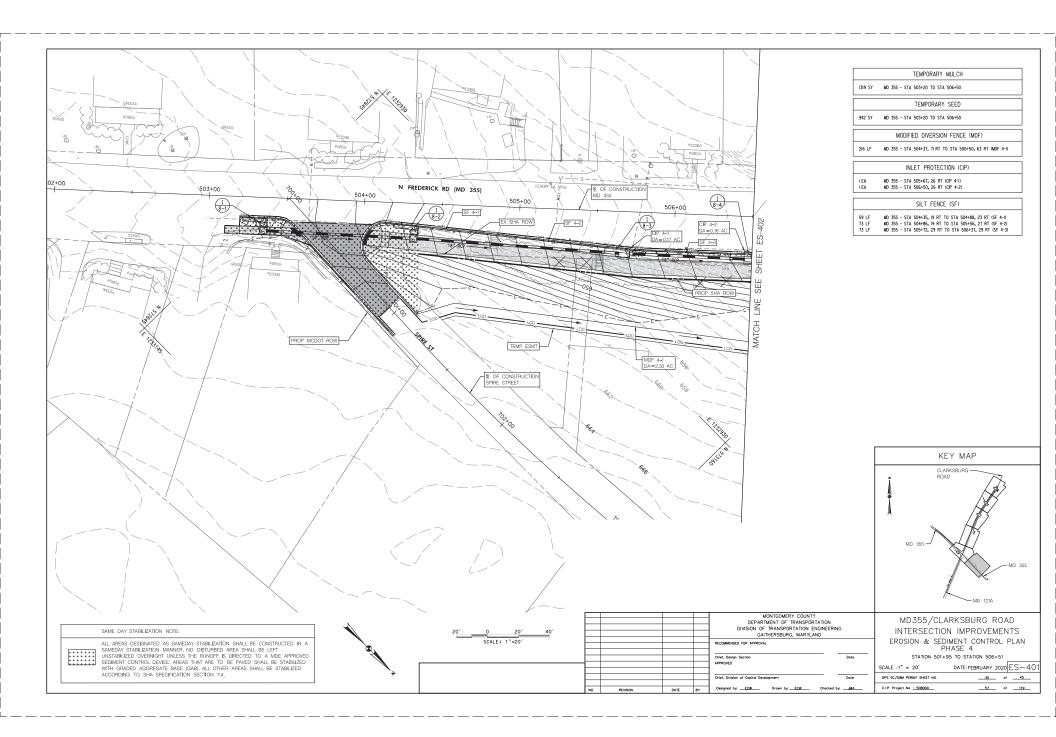


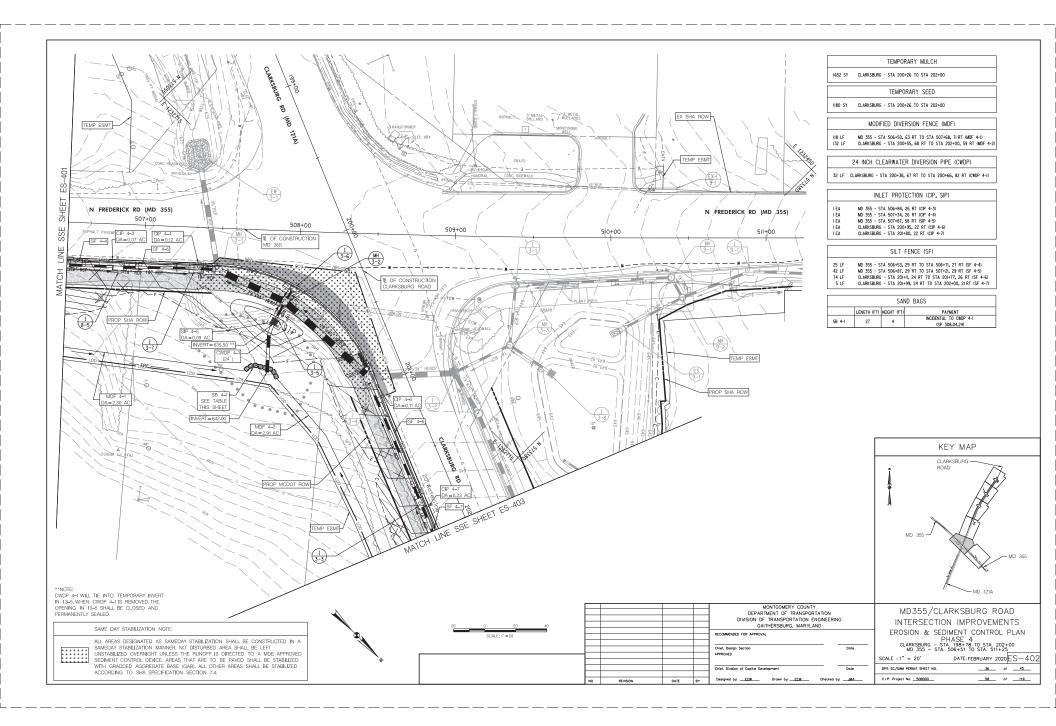


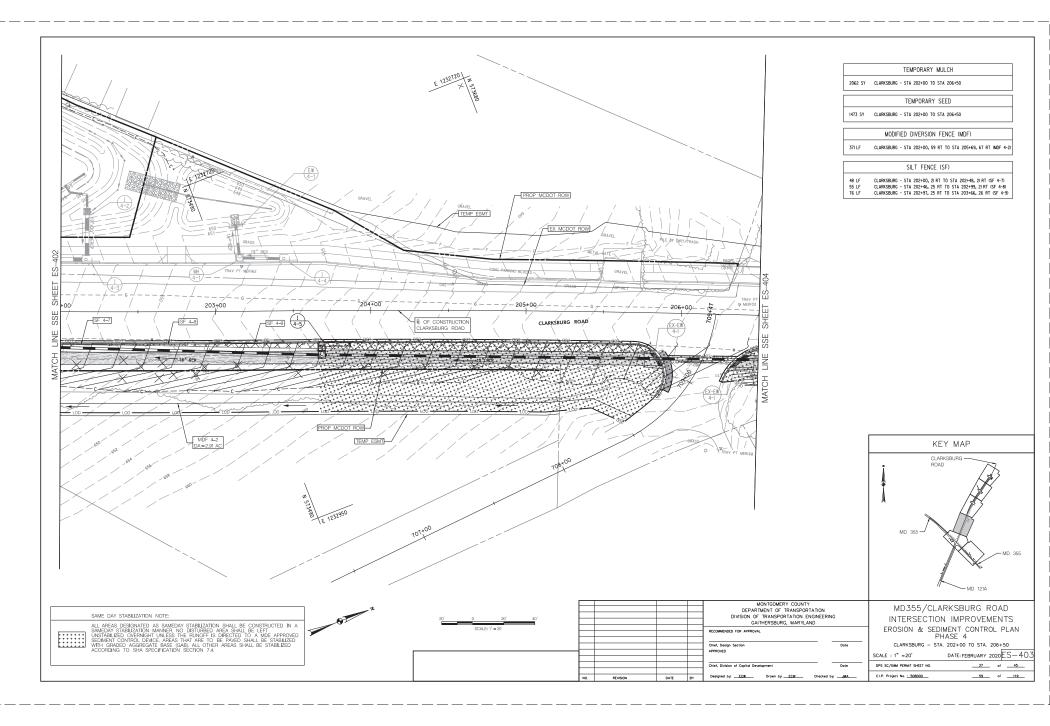


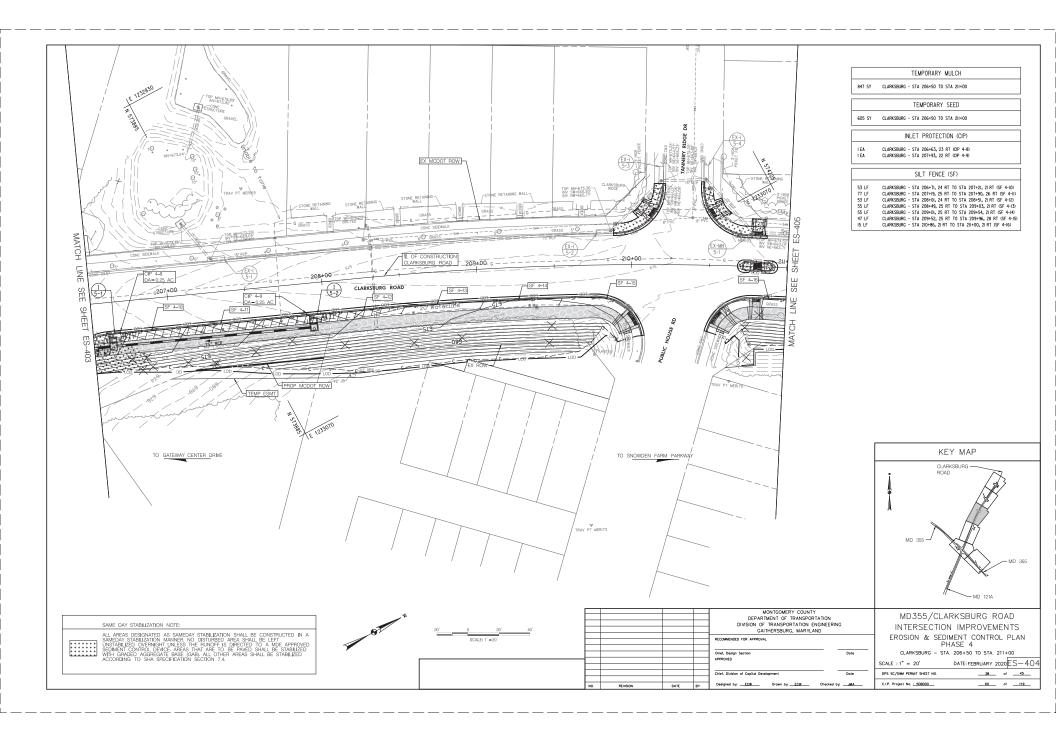


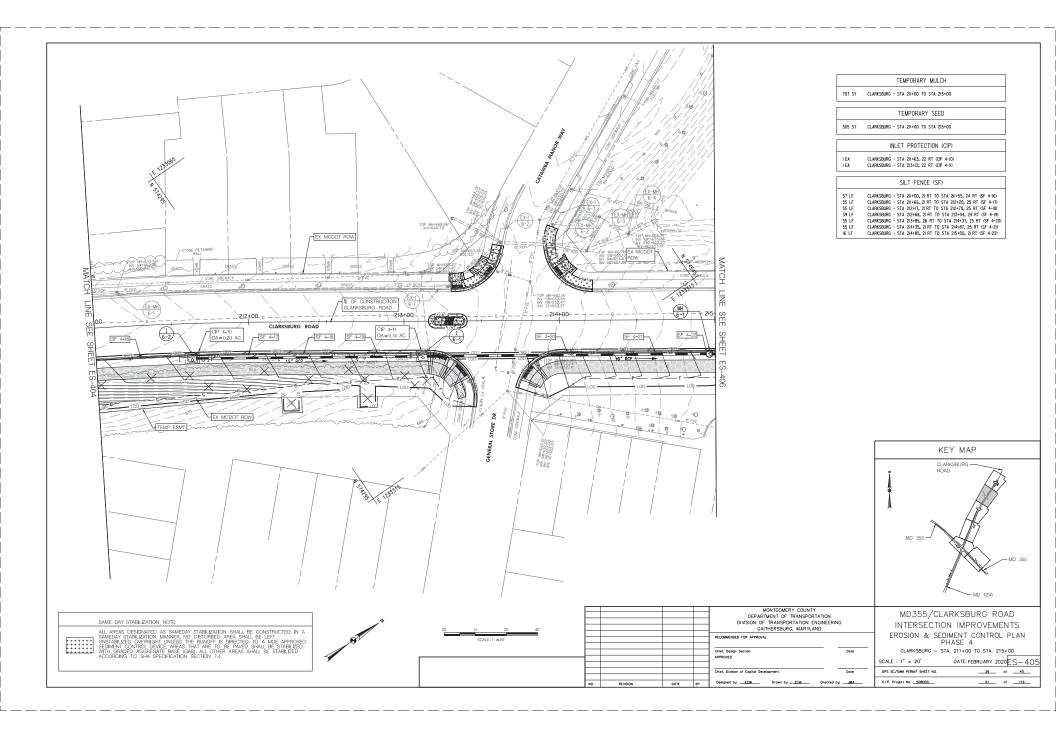


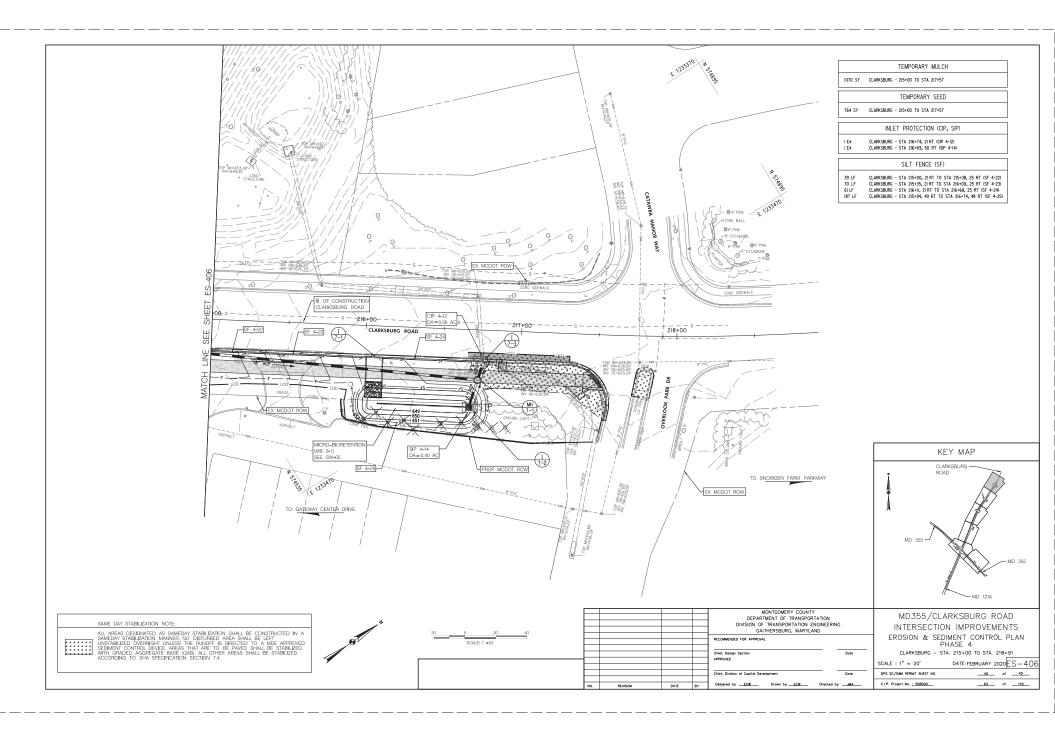












LANDSCAPING GENERAL NOTES

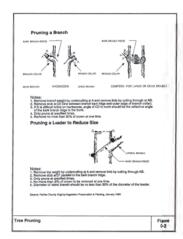
- SHA LANDSCAPE NOTES. LANDSCAPE CONSTRUCTION WITHIN RIGHTS OF WAY OF THE MARYLAND STATE HIGHWAY ADMINISTRATION (SHA) AND WITHIN SHA PROPERTY, EASEMENT AREAS AND LANDS TO BE CONVEYED TO SHA SHALL CONFORM TO THESE NOTES. FOR GUIDANCE REGARDING EDISIGN MODIFICATIONS DURING CONSTRUCTION, REFER TO SHAL ANDSCAPE DESIGN GUIDE, SHA LANDSCAPE ESTEMATING MANUAL, AND SHA ENVIRONMENTAL GUIDE FOR ACCESS AND DISTRICT PERMIT APPLICANTS AT http://www.roads.mayland.gov/index.apst/Pagled-25.
- SHA STANDARD SPECIFICATIONS. LANDSCAPE CONSTRUCTION SHALL CONFORM TO SECTIONS 701 THROUGH 716, AND LANDSCAPE MATERIALS SHALL CONFORM TO SECTION 20 OF THE MOST RECENT REVISION OF SHA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, INCLUDING ALL REVISIONS AND SUPPLEMENTS, AND AS SPECIFICATIONS FOR THE REFUGUREMENTS SHALL SUPERSED ALL OTHER SPECIFICATIONS FOR WORK ON SHA PROPERTY. ALL SHA SPECIFICATIONS FOR LANDSCAPING AND LANDSCAPE MATERIALS PUBLISHED IN 2008 HAVE BEEN REPLACED. CURRENT SPECIFICATIONS ARE AT Intro-Convencious manyland-good microscape (ATRICALS).

- TEMPORARY STABILIZATION SHALL BE INSTALLED IN CONFORMANCE WITH SECTION 704 TO ENSURE THAT AREAS OF SOIL DISTURBANCE ARE PROTECTED FROM WIND, RAINFALL AND FLOWING WATER UNTIL PERMANENT STABILIZATION IS INSTALLED.

 - TEMPORARY MULCIL ETTIER AS TEMPORARY STRAW MULCI OR TEMPORARY MATTING MULCIL SHALL BE INSTALLED AT THE END OF EACH WORKING DAY TO PROVIDE SAME DAY STABILIZATION IN LIES OF MIRE APPROVED STABILIZATION INSTALLED. TEMPORARY STRAW MULCII SHALL BE INSTALLED ON AREAS AND SLOPES FLATTER THAN 4:1; TEMPORARY MATTING MULCH SHALL BE APPLIED ON SLOPES 4:1 AND STEEPER, AND TO AREAS WITHIN CHANNELS.
 - APPLIED ON SUDE 341 AND STREETER, AND TO AREAS WITHIN SUBBRIDGE.

 TEMPORARY SEED SHALL BE INSTALLED IN LIEU OF TEMPORARY MULCH WHEN SOIL REDISTURBANCE IS EXPECTED MORE THAN 30 DAYS AFTER SOIL DISTURBANCE. THE REQUIRED APPLICATION RATE SHALL BE 100 LBS PER ACRE OF 37-0-0 (SCU) FERTILIZER.
- ROADWAY PAVEMENT REMOVAL. AREAS OF ROADWAY PAVEMENT REMOVAL SHALL BE EXCAVATED TO REMOVE PAVEMENTS, AGGREGAT BASE, AND COMPACTED SOIL TO A MINIMUM DEPTH OF 10 INCHES BELOW THE PAVEMENT SURFACE, OR AS NECESSARY TO REMOVE ALL RESTORATION. IN THE SURFACE AND AREAS SHALL BE RESTORATION. AND TOPS OIL AS PART OF SOIL.
- EXCAVATION AND DEBRIS REMOVAL. DEBRIS RELATED TO THE DEMOLITION OF SIDEWALKS, DRIVEWAYS, CURBS, TREES, STUMPS, ROOTS, FENCING, PIPES, AND OTHER MATERIALS THAT MAY INTERFERE WITH LANDSCAPE INSTALLATION OR FUTURE MAINTENANCE SHALL BE EXCAVATED AS NECESSARY FOR THEIR COMPLETE REMOVAL AND DISPOSAL.
- SOIL RESTORATION. AREAS OF PAVEMENT REMOVAL, EXCAVATION OR DRILLING IN LANDSCAPED AREAS SHALL REMOVE EXCAVATED DEBRIS AND RESTORE THE SUBGRADE WITH APPROVED SUBSOIL AND TOPSOIL PLACED IN CONFORMANCE WITH SECTION 701 OF THE SHA STANDARD SPECIFICATIONS.
 - A LAYER OF APPROVED TOPSOIL OF AT LEAST A 4-INCH DEPTH SHALL BE PLACED ON ALL DISTURBED AREAS FLATTER THAN 2:1 AND IN ALL CHANNELS PRIOR TO SEEDING, SODDING OR OTHER LANDSCAPING, UNLESS OTHERWISE SPECIFIED.
 - 2. A LAYER OF APPROVED TOPSOIL OF AT LEAST A 2-INCH DEPTH SHALL BE PLACED ON ALL DISTURBED AREAS 2:1 AND STEEPER PRIOR TO SEEDING, SODDING OR OTHER LANDSCAPING, UNLESS OTHERWISE SPECIFIED.
 - BIOBETENTION SOLD HER LANDSCAPING, UNLESS OF HERWISE SPECIFIED.

 BIOBETENTION SOLD MIX (BSM) AND OTHER MATERIALS INSTALLED IN CONJUNCTION WITH SPI 316 STORMWATER FILTRATION FACILITIES AND SHA STORMWATER DETAILS SHALL BE INSTALLED IN CONFORMANCE WITH SHA LANDSCAPE NOTES AND LANDSCAPE PLANS. PLANT MATERIALS AND MULCH SHALL BE INSTALLED IN BSM IN CONFORMANCE WITH STORMWATER DETAILS, SECTION 710 OR OTHER SHA SPECIFICATIONS.
- TURFGRASS SOD ESTABLISHMENT SHALL BE PERFORMED IN ALL DISTURBED AREAS, OR WITHIN THE AREAS INDICATED IN THE PLANS, IN CONFORMANCE WITH SECTION 708 OF THE SHA STANDARD SPECIFICATIONS, THE REQUIRED APPLICATION RATE OF 26-16-12 FERTILIZER SHALL BE 200 LIBS PER ACRE, AND NO FERTILIZER SHALL BE APPLIED FROM NOVEMBER IS TO MARCH I.
- TURFGRASS ESTABLISHMENT SHALL BE PERFORMED IN ALL DISTURBED AREAS, OR WITHIN THE AREAS INDICATED IN THE PLANS, IN CONFORMANCE WITH SECTION 30 OF THE SHA STANDARD SPECIFICATIONS. THE REQUIRED APPLICATION RATE OF 20-16-12 FERTILIZER SHALL BE 200 LBS PER ACRE, AND NO FERTILIZER SHALL BE 200KN NOVEMBER IS TO MARCH 1.





Sannett GPI

LANDSCAPING GENERAL NOTES: CONTINUED

- SOIL STABILIZATION MATTING SHALL BE INSTALLED IN CONFORMANCE WITH SECTION 709 OF THE SHA STANDARD SPECIFICATIONS, IN COOLUNCTION WITH TURKER/DASS ISSTABLISHMENT PER SECTION 705 OR FALED WE STABLISHMENT PER SECTION 707 AS FOLLOWS.

 A REAS FLATTER THAN 6:1, TYPE A OR TYPE E MATTING MAY BE INSTALLED IN LIEU OF STRAW MULCH AND HYDROMULCH BINDER IN CONJUNCTION WITH TURFGRASS ESTABLISHMENT.

 - AREAS STEEPER THAN 6:1 AND FLATTER THAN 4:1. TYPE A OR TYPE E MATTING SHALL BE INSTALLED IN LIEU OF STRAW MULCH AND HYDROMULCH BINDER IN CONJUNCTION WITH TURFGRASS ESTABLISHMENT, UNLESS DELINEATED AND NOTED OTHERWISE.
 - CHANNELS, STORMWATER MANAGEMENT FACILITIES, AND SLOPES 4:1 AND STEEPER TYPE A SOIL STABILIZATION MATTING SHALL BE INSTALLED IN LIEU OF STRAW MIGLET AND HYDROMULCH BINDER IN CONJUNCTION WITH TURFGRASS ESTABLISHMENT, UNLESS DELINEATED AND NOTED OTHERWISE.

 - 4. IN AREAS OF MEADOW ESTABLISHMENT WITH TYPE D SOIL STABILIZATION MATTING, THE MATTING SHALL BE INSTALLED IN LIEU OF STRAW MULCH AND HYDROMULCH BINDER WITHIN THE DELINEATED AREAS.

 5. IN HIGH VELOCITY CHANNELS WITH TURFGRASS ESTABLISHMENT, TYPE B SOIL STABILIZATION MATTING SHALL BE INSTALLED IN LIEU OF STRAW MULCH AND HYDROMULCH BINDER WITHIN THE DELINEATED AREAS.
- MEADOW ESTABLISHMENT OR SHRUB SEEDING ESTABLISHMENT SHALL BE PERFORMED IN AREAS AS INDICATED IN THE PLANS, IN CONFORMANCE WITH SECTIONS 706 AND 707 OF THE SHA STANDARD SPECIFICATIONS. THE REQUIRED APPLICATION RATE OF 20-16-12 FERTILIZER SHALL BE 200 LESS PER ACRE.
- TREE PRESERVATION AREAS. TEMPORARY ORANGE CONSTRUCTION FENCE (TOCF) SHALL BE INSTALLED IN LOCATIONS DELINEATED ON THE PLANS AS TREE PRESERVATION AREAS (TPA IN CONFORMANCE WITH SECTION) LOOF THE SIME ASTANDADES DETECTATION TO PROFITE CENSITING TREES AND OTHER VEGETATION DURING CONSTRUCTION. AREAS WITHIN TOCF SHALL BE PROTECTED FROM ALL PROHIBITED AND RESTRICTED ACTIVITIES, PER SECTION 120.
- ROADSIDE TREE PERMIT. TREE REMOVAL, TREE INSTALLATION, TREE ROOT AND BRANCH PRUNING, AND OTHER REGULATED IMPACTS TO TREES IN THE SHA RIGHT OF WAY SHALL CONFORM TO THE REQUIREMENTS OF THE ROADSIDE TREE PERMIT (RTP) ISSUED BY THE MARYLAND DEPARTMENT OF NATURAL RESOURCES, OR THE APPROVED FOREST CONSERVATION PLAN (FCP) OF THE LOCAL AUTHORITY.
- NATURAL RESOURCES, OR THE APPROVED FOREST CONSERVATION PLAN (FCP) OF THE LOCAL AUTHORITY.

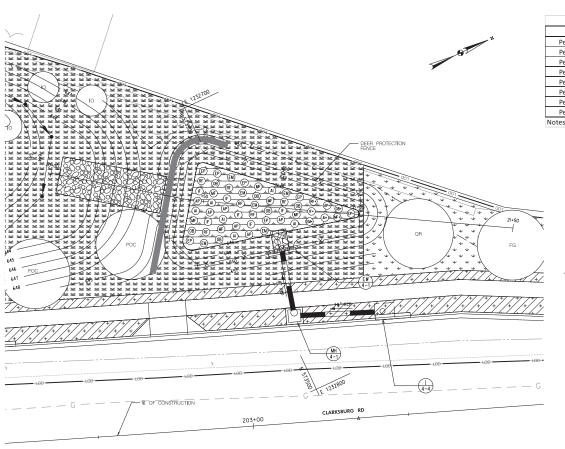
 A COPY OF THE RTP OR FCP SHALL BE SUBMITTED TO THE SHA OFFICE OF ENVIRONMENTAL DESIGN BEFORE WORK IS PERFORMED, AND A COPY OF THE FTP OR FCP SHALL BE REPRODUCED IN THE PLANS OR BE IN POSSESSION OF THE APPLICANT AT THE PROJECT SITE WHEN THE PERMITTED WORK IS PERFORMED.
- A MARYLAND LICENSED TREE EXPERT SHALL PERFORM THE SPECIFIED TREE OPERATIONS IN CONFORMANCE WITH THE SHA STANDARD SPECIFICATIONS AND ANSI A300 STANDARDS FOR TREE CARE OPERATIONS.
- TRIES AND OTHER PLANT MATERIAL INSTALLATION. TREES SURINGS PERSONIALS, ANNIALS, BILBS, LANDSCAPE BEDS BARK MULCH AND SIMILAR MATERIALS SHALL BE INSTALLED IN CONVENIENCE WAS RECORD THAN DAY I OF THE SHALL BE INSTALLED IN CONVENIENCE WAS RECORDED AT THE TIME OF INSTALLATION TO ENSURE SIDEWALK CLEARANCE FOR PEDESTRIANS IS MAINTAINED TO A HEIGHT OF 8 FEET. NO TREE OR SHRUB SHALL BE INSTALLED WITHIN 3 FEET OF CURBS, SIDEWALKS, OR PAYMEMENT EDGES.
- TREE BRANCH PRUNING SHALL BE PERFORMED OR DIRECTLY SUPERVISED BY A MARYLAND LICENSED TREE EXPERT IN CONFORMANCE WITH ANSI A390 STANDARDS PER SECTION 712 AS INCCESSARY FOR ANY OF THE FOLLOWING: TO INSTALL TEMPORARY ORANGE CONSTRUCTION FENCE (TOCF) ALLOW DELINAL TIONS ON PLANS. TO DEFENDENT REE BOOT PRUNING ALLOWS DELINEATIONS ON PLANS TO SUPERVISE AND THE SECOND FENCE (TOCF) AND THE SECOND FENCE (TOCF) AND THE SECOND FENCE (TOCF) AND THE SECOND FENCE (TOCF). TO SECOND FENCE (TOCF) AND THE SECOND FENCE (TOCF). THE SECOND FENCE (TOCF) AND THE SECOND FENCE (TO
- TREE ROOT PRUNING SHALL BE PERFORMED ALONG THE LINE SHOWN ON THE PLANS IN CONFORMANCE WITH SECTION 715. TREE ROOT PRUNING SHALL BE COMPLETED BEFORE BEGINNING EXCAVATION OR CONSTRUCTION ADJACENT TO TREES TO BE PRESERVED.
- TREE FERTILIZING SHALL BE PERFORMED IN CONFORMANCE WITH OPERATION 3 BROADCAST FERTILIZING PER SECTION 716. 20-16-12 FERTILIZER SHALL BE APPLIED TO THE SOIL SURFACE UNDER THE DRIPLINE OF TREES AT THE RATE OF 200 LBS. PER ACRE.
- FINISHED MATERIALS. THE SUITABILITY, COLOR AND TEXTURE OF APPLICANT TO INSERT NAME OF MATERIALS WITH REFERENCES TO PAGES OF THE PLANS WHICH SPECIFY THESE MATERIALS TO BE INSTALLED SHALL BE APPROVED BEFORE INSTALLATION. THE CONTRACTOR SHALL FURNISH SAMPLES OR MAKE ARRANGEMENTS FOR INSPECTION AND APPROVAL AT THE PROJECT STIP.
- FUTURE MAINTENANCE. ADDITIONAL MAINTENANCE THAT MAY BE REQUIRED AFTER HARDSCAPE, STREET FURNITURE OR PLANT MATERIALS ARE INSTALLED AND ACCEPTED BY SHA SUCH AS REPLACEMENT, WATERING, WEEDING, MULCHING OR PEST CONTROL MAY BE PROVIDED BY THE APPLICANT WHE A PERMIT FOR THE PROPOSED WORK IS ISSUED BY THE SHA DISTRICT OFFICE.
- INSTALL DEER PROTECTION CAGES AROUND ALL NEW TREES, DEER PROTCTION CAGES TO BE INSTALLED PER PLAN DETAILS.
- INSTALL DEER PROTECTION FENCING AROUND ALL PERENNIAL PLANTINGS WITHIN BIO-RETENTION AREAS. DEER PROTECTION FENCING TO BE PLACED A MINIMILM OF 5'BEYOND PLANTING AREAS AND PROVIDE AN ACCESS POINT TO ALLOW FOR MAINTENANCE OPERATIONS INSIDE THE FENCE.



					17,000
					MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND
ŀ					RECOMMENDED FOR APPROVAL
ŀ					Chief, Design Section Date APPROVED
ŀ					Onief, Division of Capital Development Date
İ	NO.	REVISION	DATE	84	Designed by:JAB Drawn by:JSK Checked by:BES

MD355/CLARKSBURG ROAD INTERSECTION IMPROVEMENTS LANDSCAPING GENERAL NOTES

	SCALE : NO SCALE	DATE: SEPTEMBER 2020	LD-00
-	DPS SC/SWM PERMIT SHEET NO.	41 of	45
	C.I.P. Project No. : 508000	63 of	119



DATUM: NAD 83/91 Horizontal NAVD 88 Vertical

SCALE: 1" - 10"

BIORETENTION PLANT SCHEDULE							
Form	Symbol	Quantity	Scientific Name	Common Name	Size	Spacing	
Perennial	EM	67	Eutrochium dubium	Coastal Plain Joe Pye Weed	Quart	24" o.c	
Perennial	RF	67	Rudbeckia fulgida	Orange Coneflower	Quart	24" o.c	
Perennial	IV	67	Iris Versicolor	Blue Flag	Quart	24" o.c	
Perennial	AP	67	Andropogon gerardii	Big Bluestem	Quart	24" o.c	
Perennial	Al	67	Asclepias incarnata	Butterfly Weed	Quart	24" o.c	
Perennial	MF	67	Monarda fistulosa	Wild Bergamot	Quart	24" o.c	
Perennial	OB	67	Oenothera biennis	Common Evening Primrose	Quart	24" o.c	
Perennial	EP	67	Echinacea purpurea	Eastern Purple Coneflower	Quart	24" o.c	

PLANT LOCATION KEY

Notes: Herbaceous plants to be planted in groups of to 10 to 15 plants

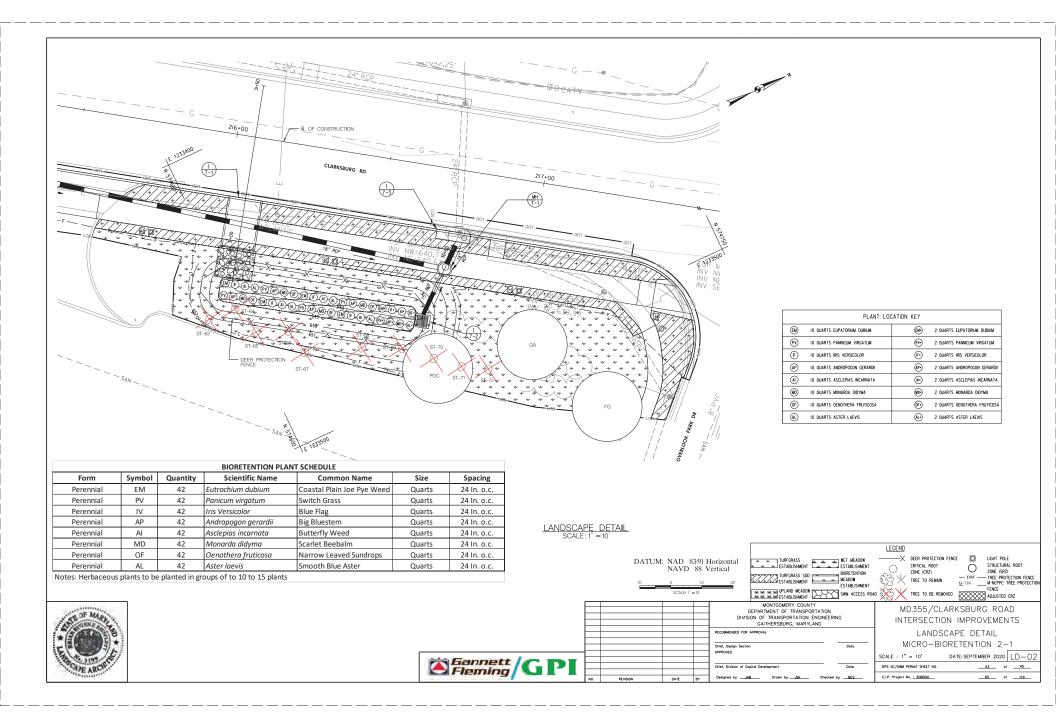
(EM)	IO QUARTS EUPATORIUM DUBIUS	EM•	7 QUARTS EUPATORIUM DUBIUS
(RF)	IO QUARTS RUDBECKIA FULGIDA	®F∙	7 QUARTS RUDBECKIA FULGIDA
(F)	IO QUARTS IRIS VERSICOLOR	€·	7 QUARTS IRIS VERSICOLOR
AP	IO QUARTS ANDROPOGON GERARDII	₽•	7 QUARTS ANDROPOGON GERARDII
AI	IO QUARTS ASCLEPIAS INCARNATA	Air	7 QUARTS ASCLEPIAS INCARNATA
₩F)	IO QUARTS MONARDA FISTULOSA	(MF•)	7 QUARTS MONARDA FISTULOSA
(B)	10 QUARTS DENOTHERA BIENNIS	(B•)	7 QUARTS GENOTHERA BIENNIS
(P)	IO QUARTS ECHINACEA PURPUREA	€₽•	7 QUARTS ECHINACEA PURPUREA

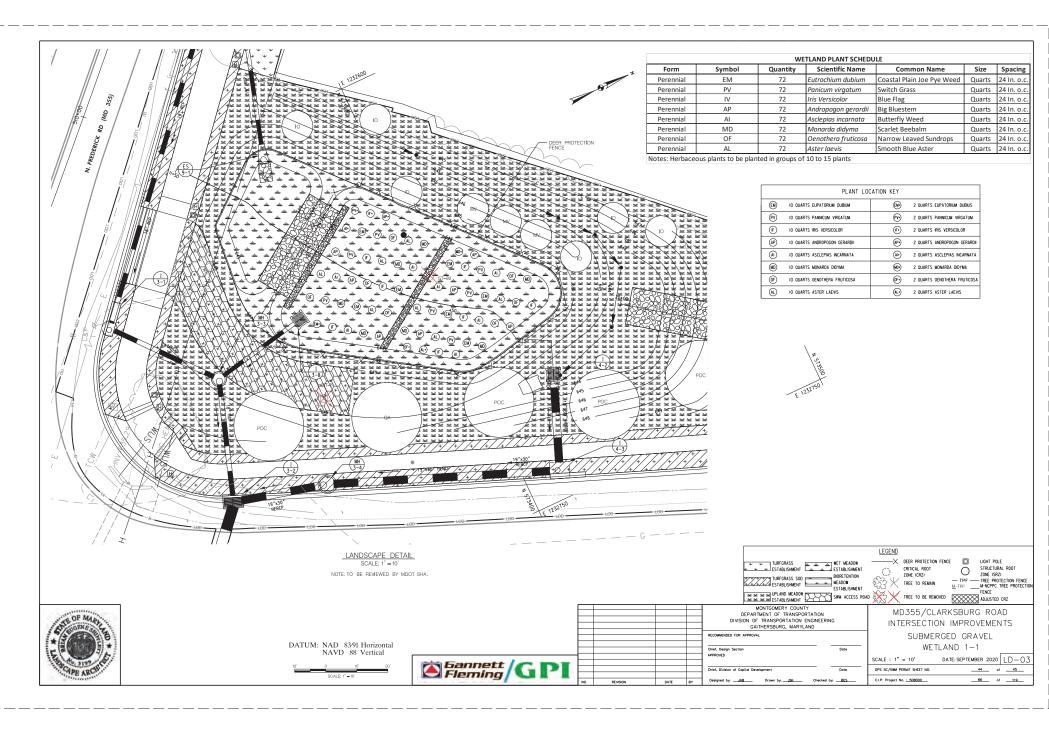
TURGRASS DEER PROTECTION FENCE UIGHT POLE
STABLISHMENT SET HALLOW
SET FENDENCE POLICY
STABLISHMENT SET HALLOW
MAN TIGGUERY COUNTY
MAN MAN SET HALLOW
STABLISHMENT SAM ACCESS ROLD

MONTGOURERY COUNTY
MONTGOURERY
MON

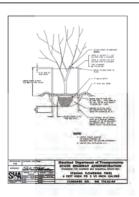


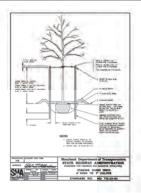
LEGEND

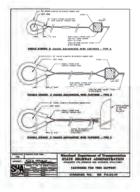


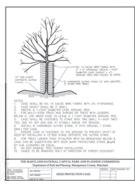


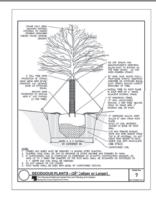










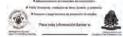






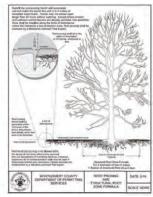
Zona de Protección de Arboles

NO ENTRE

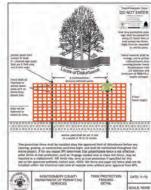




Use of stating and in the comments of the comments in arrange belt to the arrange belt to detect, a comment in a comment i	= =	L.	Trees shall name all for plant materials to AMS 200.1 security (Security for Namery (Security
In column with in marrie to one law dispersions of the dispersions of the dispersion of the dispersion of the dispersion of the tension of the dispersion to the dispersion of the dispersion to the dispersion of	- 3	1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 :	Print for part is seed took for an or epigenes, and many, and emission before before trust becomes generalist
di lesso con esple rost ball d'esplé le altere profe les que montre de pose di grand' (der pose di grand' (der)	W	/	Miles Common of J Section of Processing model Students MCF passes any could written J section of being board.
a cassod roug of tal- roug the fractional to increasing the parties of waters on sky or depart store.	-	// 2	Secure poster are mile, eggs, swine and harlige from top hall as those of read hall reting costs plented in mount of recovery
Signe jobe; of ' diserting hairs and free-lang glowd servers or some. Leave will of boar of printing hairs understanding to an one will be and			Ott orspect out to hand to an out and out aroundments printed aroundments printed aroundments out front and fertilize out front and fertilize out for the output out for the output out for the output
-	Placing laife with:	Tenthol	the set two.
(2)	MONTGOMERY COUNTY DEPARTMENT OF PERMITTING	TREE FLANTING DITTAL	DATE: 5/16
11.00	SERVICES	ALREERY STOCK	SCALE NONE



MONTGOMERY COUNTY



Symbol	Species	Size	Spacing	Planting Method	Comment	Quantity
FG	Fagus grandifalia (American Beech)	2 inch cal.	22.5 ft. O.C	Hand or Half Automatic Planting	Single Trunk	6
POC	Platanus occidentalis (American Sycamore)	2 inch cal.	22.5 ft. O.C	Hand or Half Automatic Planting	Single Trunk	6
QA	Quercus alba (White oak)	2 inch cal.	22.5 ft. O.C	Hand or Half Automatic Planting	Single Trunk	10
QR	Quercus rubra (Northern Red Oak)	2 inch cal.	22.5 ft. O.C	Hand or Half Automatic Planting	Single Trunk	12
UAJ	Ulmus americana 'Jefferson' (American elm 'Jefferson')	2 inch cal.	22.5 ft. O.C	Hand or Half Automatic Planting	Single Trunk	13
NS	Nyssa sylvatica (Black Gum)	2 inch cal.	15 ft. O.C.	Hand or Half Automatic Planting	Single Trunk	14
10	Ilex opaca (American Holly)	5 gallon and 5 ft.	15 ft. O.C.	Hand or Half Automatic Planting	Single Trunk	6
VPR	Viburnum prunifolium (Blackhaw)	5 gallon and 5 ft.	15 ft. O.C.	Hand or Half Automatic Planting	Single Trunk	6
HVA	Hamamelis virginiana (Witch-hazel)	5 gallon and 5 ft.	15 ft. O.C.	Hand or Half Automatic Planting	Single Trunk	3
MV	Magnalia virginiana (Sweetbay)	1 in. cal.	15 ft. O.C.	Hand or Half Automatic Planting	Single Trunk	3
EM	Eutrochium dubium (Coastal Plain Joe Pye Weed)	Quart	24" o.c	Hand Planting	Multi-Stemmed	181
PV	Panicum virgatum (Switchgrass)	Quart	24" o.c	Hand Planting	Multi-Stemmed	114
RF	Rudbeckia fulgida (Orange Coneflower)	Quart	24" o.c	Hand Planting	Multi-Stemmed	67
IV	Iris versicolor (Blue Flag)	Quart	24" o.c	Hand Planting	Multi-Stemmed	181
AP	Andropogon gerardii (Big Bluestem)	Quart	24" o.c	Hand Planting	Multi-Stemmed	181
Al	Asclepias incarnata (Butterfly Weed)	Quart	24" o.c	Hand Planting	Multi-Stemmed	181
MF	Monarda fistulosa (Wild Bergamot)	Quart	24" o.c	Hand Planting	Multi-Stemmed	67
MD	Monorda didyma (Scarlet Beebalm)	Quart	24" o.c	Hand Planting	Multi-Stemmed	114
OF	Oenothera fruticosa (Narrow Leaved Sundrops)	Quart	24" o.c	Hand Planting	Multi-Stemmed	114
08	Oenothera biennis (Common Evening Primrose)	Quart	24" o.c	Hand Planting	Multi-Stemmed	67
AL	Aster laevis (Smooth Blue Aster)	Quart	24" o.c	Hand Planting	Multi-Stemmed	114

e Trunk	12									
		Flowerin	ng Trees							
e Trunk	13		Botanical/	Comm	on Name	Size	Planting	Method		
		VPR	Viburnum p	prunifo	lium (Blackhaw)	6	5 gallon and 5 ft	Hand P	lanting	
e Trunk	14	10	Ilex opaca ((Amer	ican Holly)	6	5 gallon and 5 ft	ft Hand or Half Autom		
e Trunk	6	MV	Magnolia v	Vlagnolia virginiana (Sweetbay) 3 1 in. cal.				Hand or Half Automatic Pla		
e Trunk	6	HVA		amamelis virginiana (American Witchhazel) 3 5 gallon and 5 i				ft Hand Planting		
e Trunk	3	Note: To	otal trees to	be pla	nted within MDOT SHA Right of Way eq	ual to 23.				
e Trunk	3				Tree N	litigation	Planting Sumn	nary		
temmed	181		Syr	mbol	Species			Size	Spacir	
itemmed	114			FG	Fagus grandifolia (American Beech)		2 inch cal.	40 ft. C	
itemmed	67		P	POC Platanus occidentalis (American Sycamore)				2 inch cal.	40 ft. C	
itemmed	181			QA Quercus alba (White oak)				2 inch cal.	40 ft. C	
itemmed	181			OR Quercus rubra (Northern Red Oak)				2 inch cal.	40 ft. C	
itemmed	181		ī	UAJ Ulmus americana 'Jefferson' (American elm 'Jefferson')				2 inch cal.	40 ft. C	
itemmed	67			NS	Nyssa sylvatica (Black Gum)			2 inch cal.	40 ft. C	
temmed	114			10	Ilex opaca/American Holly			gallon and 5 ft	25 ft. C	
itemmed	114		N.	MV Magnolia virginiana (Sweet Bay)				1 inch cal.	25 ft. C	
itemmed	67		V	/PR	Viburnum prunifolium (Blackhaw)			gallon and 5 ft	25 ft. C	
itemmed	114		н	HVA Hamamelis virginiana (American Witchhazel)) :	gallon and 5 ft	25 ft. C	
itemmed	67		Total Number of Mitigation Trees to be Planted							
			_							

Spacing 22.5 ft. O.C 22.5 ft. O.C	Comments Single Trunk Single Trunk	CONTRACTOR CONTRACTOR TO AN EXTRACT PROCESS
Spacing 15 ft. O.C	Comments Tree Form	SPOUND HOS ARROS 2 FEET APART SO TOUR LINE SPOUND BY A
15 ft. O.C	Evergreen Broadleaf	MINIMUM OF 12 FROM GROUND FOMEN HOD RINGS AND MINISTER AND RINGS
15 ft. O.C	Single Trunk	T. HIGHER IN ACCOMMENDATION OVER APS GROUND 17
15 ft. O.C	Tree Form	LINE TELE TELALISM ENTER SHAPED RESAR STAVES SET SITO BOOK TENTOOLINE AT ON EQUIPMENT ACTIVE PORTS
tuantity 6		DEER FENCE

Tree Mitigation Planting Summary								
Symbol	Species	Size	Spacing	Quantity				
FG	Fagus grandifolia (American Beech)	2 inch cal.	40 ft. O.C	6				
POC	Platanus occidentalis (American Sycamore)	2 inch cal.	40 ft. O.C	6				
QA	Quercus alba (White oak)	2 inch cal.	40 ft. O.C	10				
QR	Quercus rubra (Northern Red Oak)	2 inch cal.	40 ft. O.C	12				
UAJ	Ulmus americana 'Jefferson' (American elm 'Jefferson')	2 inch cal.	40 ft. O.C	13				
NS	Nyssa sylvatica (Black Gum)	2 inch cal.	40 ft. O.C	14				
10	Ilex opaca/American Holly	5 gallon and 5 ft	25 ft. O.C	6				
MV	Magnolia virginiana (Sweet Bay)	1 inch cal.	25 ft. O.C	3				
VPR	Viburnum prunifolium (Blackhaw)	5 gallon and 5 ft	25 ft. O.C	6				
HVA	Hamamelis virginiana (American Witchhazel)	5 gallon and 5 ft	25 ft. O.C	3				

Tree Mitigation Planting Summary within MDOT SHA Right of Way

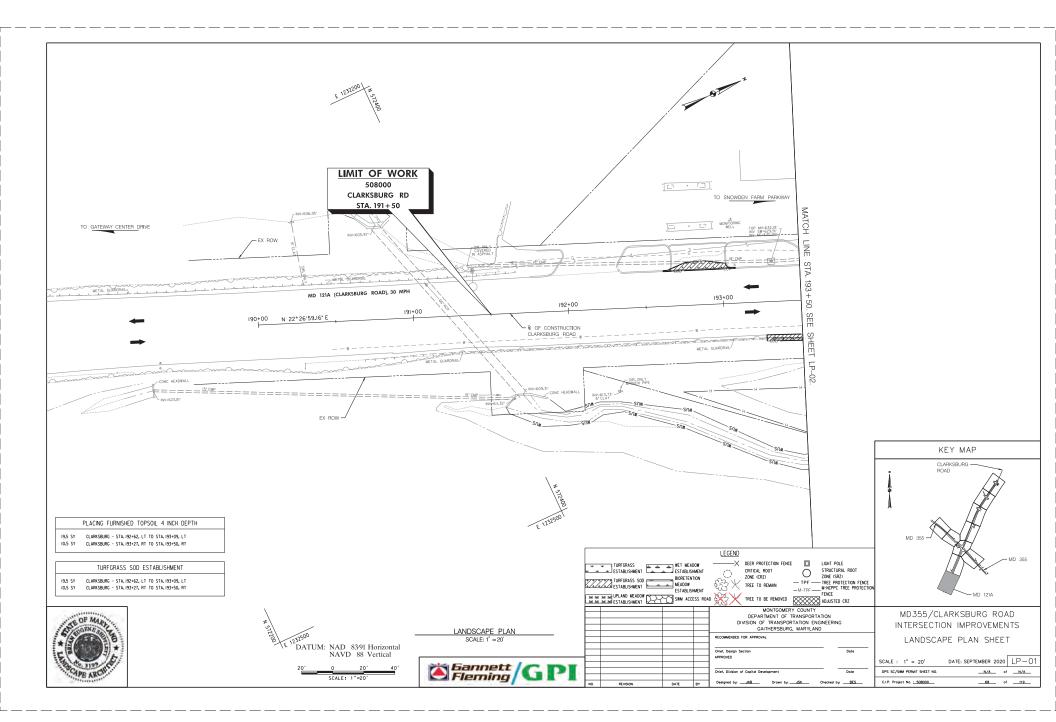
Existing Tree and Mature Shrub Removal Summary and Mitigation Summary within MDOT SHA Right of Way								
Number of rees to be Removed	Number of Trees to be Planted Within SHA Right of Way	Under Option 3, Number of Trees Planted on Adjacent MNCPPC property	Trees Requiring Additional Mitigation					
20	23	36	0					

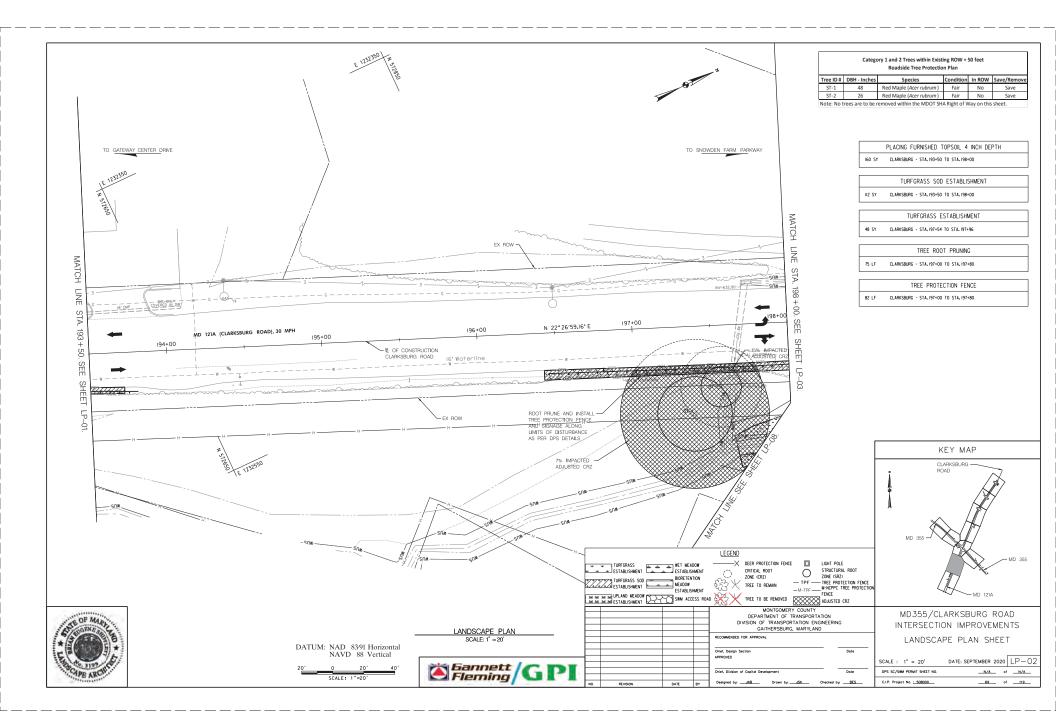


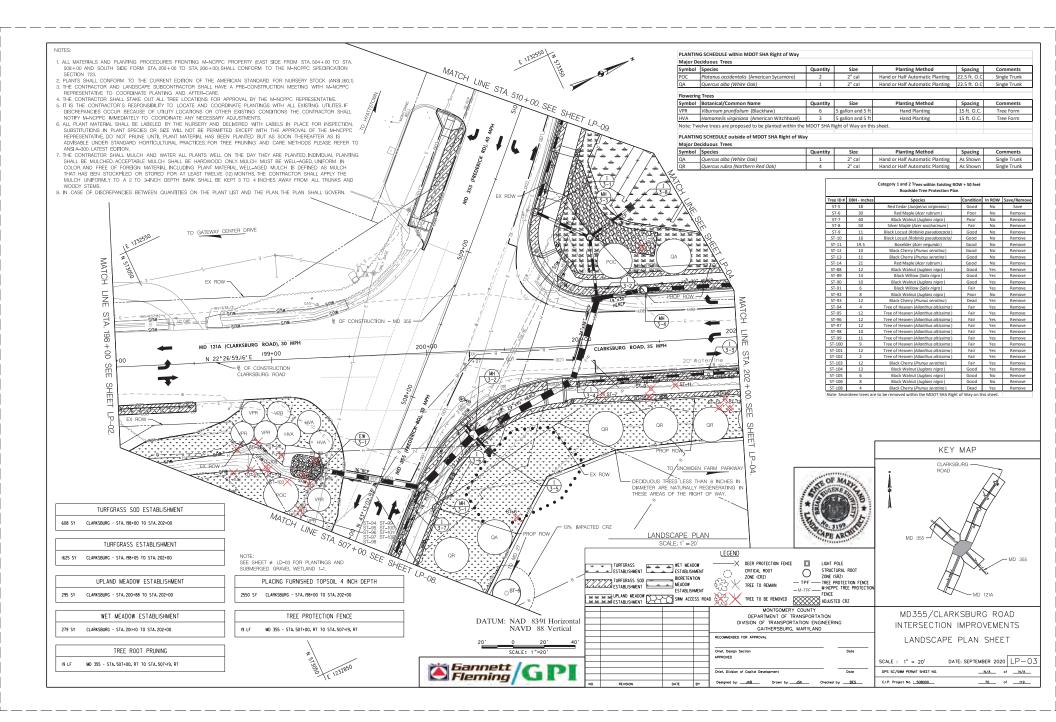
					DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
					RECOMMENDED FOR APPROVAL	1
					Chief, Design Section Date APPROVED	١
Sannett GPI					Onief, Division of Capital Development Date	ŀ
Seriening/	NO.	REVISION	DATE	84	Designed by:JAB Drown by:JSK Checked by:BES	

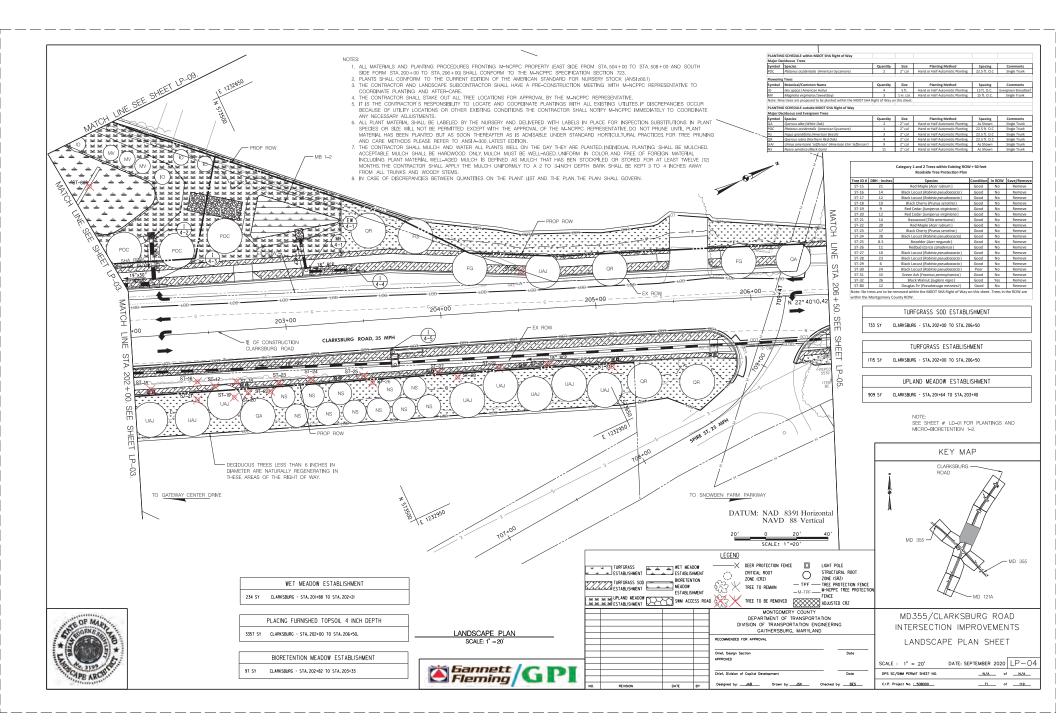
MD355/CLARKSBURG ROAD INTERSECTION IMPROVEMENTS LANDSCAPE DETAIL TREE PLANTINGS

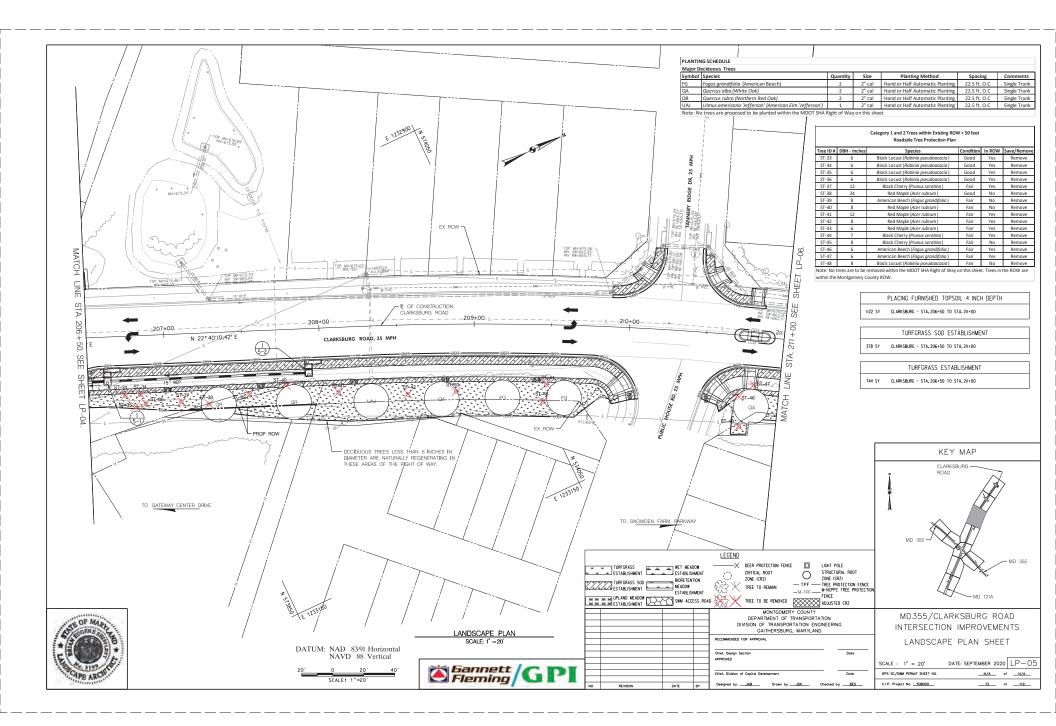
SCALE : N.T.S.	DATE: SEPTEMBER 2020	LD-04
DPS SC/SWM PERMIT SHEET NO.	45 o	45
C.I.P. Project No. : 508000	<u>_67</u> •	f <u>119</u>

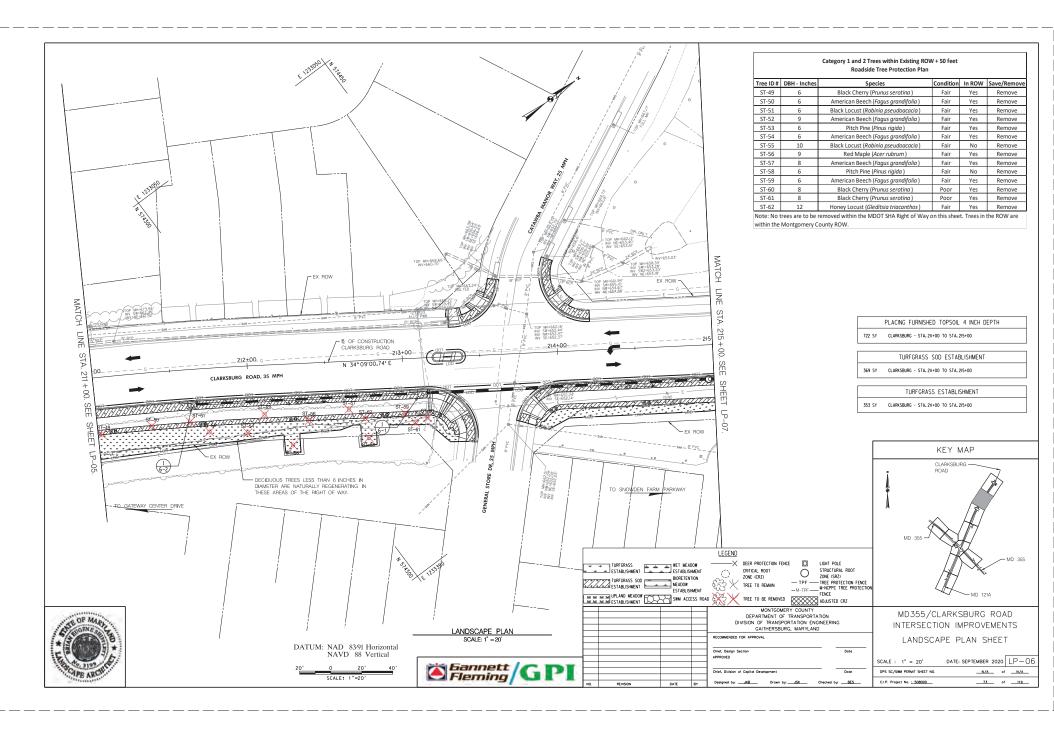


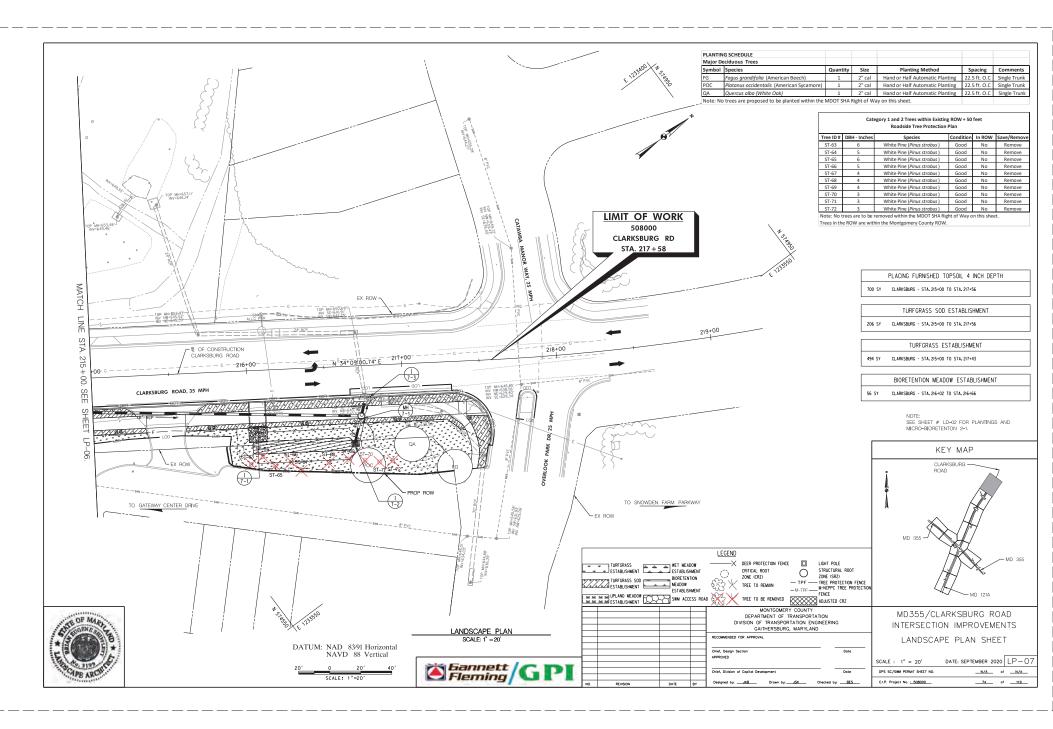


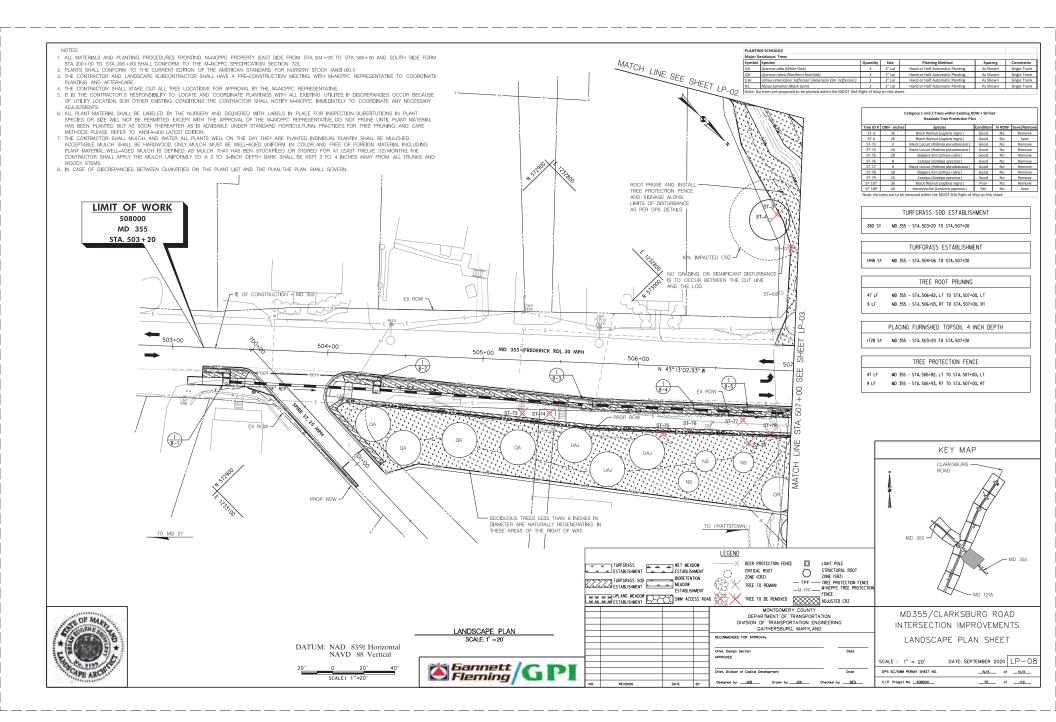


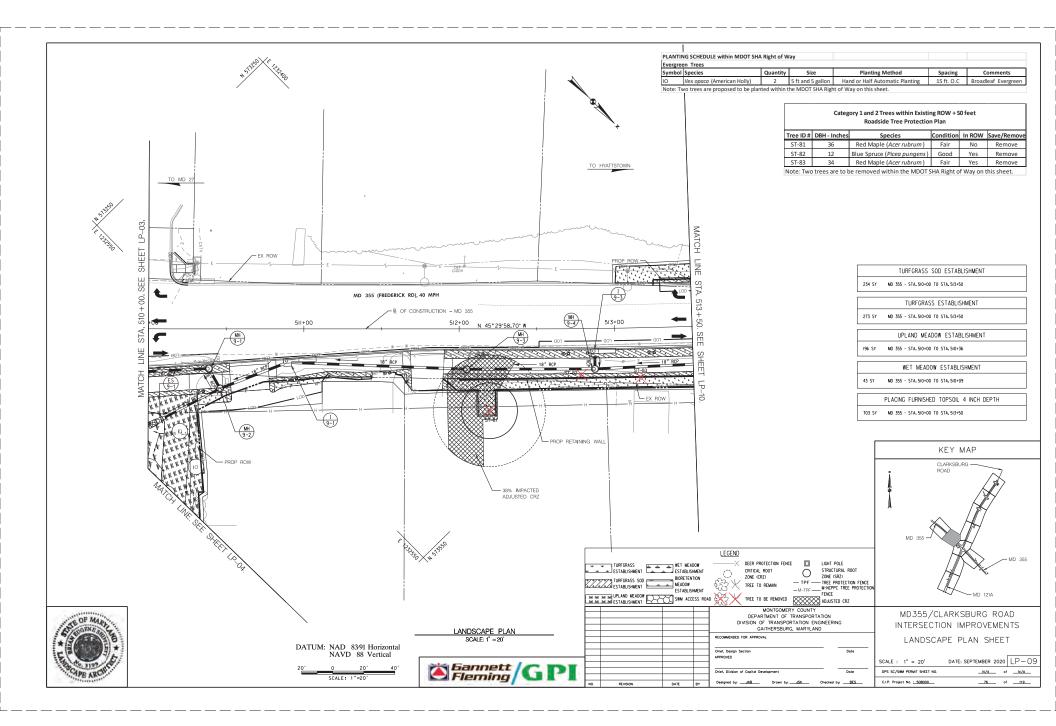


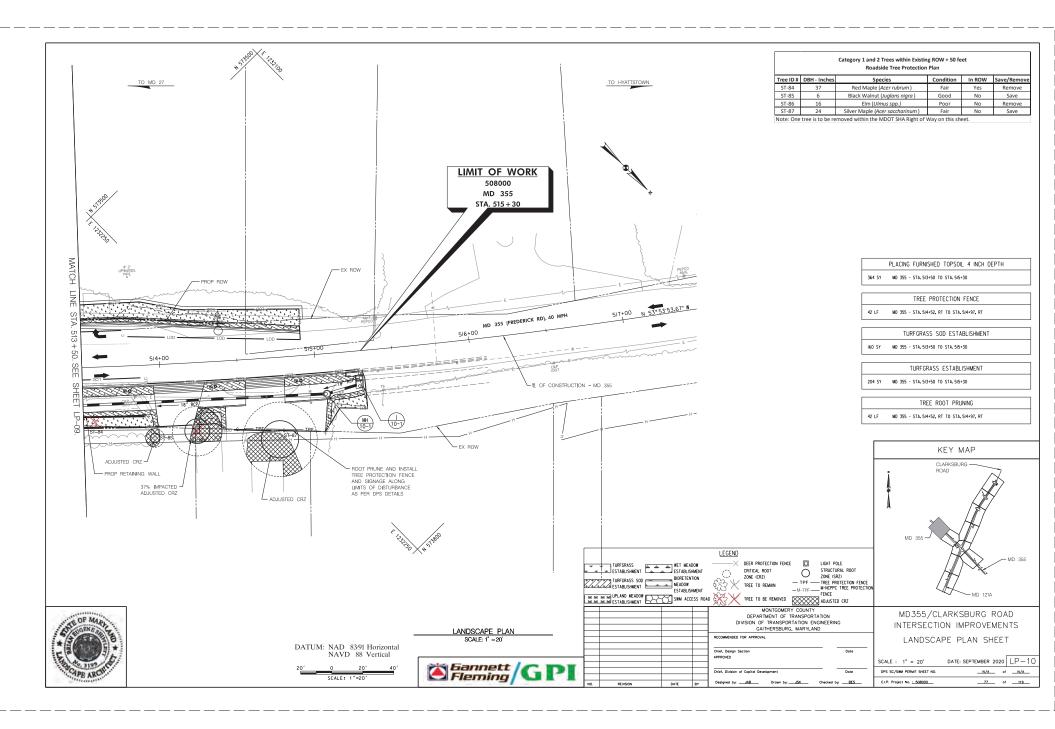












SPECIFICATIONS: - SHA SPECIFICATIONS DATED JULY 2020 - REVISIONS THEREOF AND ADDITIONS THERETO AND SPECIAL PROVISIONS FOR MATERIALS AND CONSTRUCTION. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS DATED 2017 AND ALL INTERIMS. DESIGN: CONCRETE: LOAD AND RESISTANCE FACTOR DESIGN METHOD. THE DESIGN COMPRESSIVE STRENGTH SHALL BE "C = 3000 PSI FOR ELEMENTS USING MIX NO.3 CONCRETE REINFORCING STEEL: fy = 60 000 PSI. ALL CONCRETE SHALL BE MIX NO. 3 (3500 PSI). CONCRETE: REINFORCING STEEL: REINFORCING STEEL SHALL CONFORM TO ASTM A 615 GRADE 60 ONLY GRADE 60 CAN BE USED ON THIS PROJECT. ALL SPUCES NOT SHOWN SHALL BE LAPPED AS PER BAR LAP CHARTS, MINIMUM COVER FOR ANY BAR SHALL BE 2" UNLESS OTHERMISE, NOTED, WITH THE EXCEPTION OF BARS AT THE BOTTOM AND SIDES OF ALL FOOTINGS WHICH SHALL HAVE 3" MINIMUM COVER. KEYS: ALL CONCRETE CONSTRUCTION KEYS ARE NOMINAL SIZE ALL DIMENSIONS AFFECTED BY THE GEOMETRICS ANDOR LOCATION OF THE EXISTING STRUCTURE(S) SHALL BE CHECKED IN THE FIELD OF THE CONTRACTOR BEFORE ANY CONSTRUCTION IS DONE, AND BEFORE ANY MATERIAL IS ORDERED OR FARBIOATED, IT SHALL BE THE ANY MATERIAL IS ORDERED ON FARBIOATED, IT SHALL BE THE WAY FOR THE CONTRACTOR OF THE SHALL BE THE THE CONTRACTOR OF THE SHALL BE THE THE SHALL BE AND STATIONS ON NOT SHALL BE AND THE SHALL EXISTING STRUCTURE: · EXISTING STRUCTURE(S) SHOWN IN LONG DASHED LINES. · PORTIONS OF EXISTING STRUCTURE/S) SHOWN HATCHED TO BE REMOVED. - POLITIONS OF EXISTING STRUCTURES SHOWN HATCHED TO BE REMOVED. THERE ARE RESTRICTIONS ON PLACING EQUIPMENT ON EXISTING AND NEW STRUCTURES) AND STORING MATERIALS ONOR AGAINST EXISTING AND NEW STRUCTURES SELEVISTS. THE LIMITATIONS ASSICALLY FLEATE TO LOADS THAT ARE BEYOND MARYLANDS LEGAL VEHICLES ANDOR POSTED LOAD UNITS (WHERE APPLICABLE) AND MATERIALS STOCKPLES OVER AGAINST STRUCTURES SET STRUCTURES ELEMENTS, FOR EXISTING PLACES AND AGAINST STRUCTURES ST STRUCTURES ELEMENTS, FOR STRUCTURES ON STRUCTURES TO STRUCTURES ON STRUCTURES ON STRUCTURES ON THE NO FIRST MATERIALS ONOR AGAINST STRUCTURES IN THE IN ORDER TO COMPLY WITH THIS ARTICLE THE CONTRACT OF COMPACT SHALL FRAD SECTION TO COMPACT ON STRUCTURES IN THIS SECTION TO STRUCTURES SHALL FRAD SECTION TO COMPACT ON STRUCTURES IN THIS CONTRACTOR SHALL FRAD SECTION TO STRUCTURES IN THIS CONTRACT ON STRUCTURES IN THIS CONTRACT ON STRUCTURES IN THIS CONTRACT ON STRUCTURES IN THIS CONTRACT. RESTRICTIONS FOR PLACING AND USING EQUIPMENT ON EXISTING OR NEW STRUCTUREOR STORING MATERIALS ONOR AGAINST STRUCTURES: DESIGN PARAMETERS: RETAINING WALLS FOLLOW MOOT SHA TYPE C STANDARD SECTIONS FOR "POOR" SOIL AND TWO FOOT SURCHARGE. DESIGN SAFE BEARING PRESSURE = 3.0 KSF EARTH PRESSURE CALCULATED BASED ON COULOMB THEORY. ANGLE OF INTERNAL FRICTION" = 30 DEGREES SAFE BEARING PRESSURES ARE FACTORED RESISTANCES. A THE FORM UNER FINISH SHALL MATCH THE TEXTURED FINISH SPECIFIED IN THE CONTRACT DOCUMENTS. THE MATERIALS USED IN CONSTRUCTION OF THE AGENIECTURAL TREATMENT SHALL COMPLY WITH SECTION 42002 FOR CONCRETE MATERIALS AND FORM WORK, THE CONTRACTOR SHALL SUBMIT SWAMPLES TO THE ENRINGEER FOR APPROVAL. CONCRETE FORM UNER: B-FORM LINERS SHALL BE A HIGH QUALITY REUSABLE PRODUCT MANUFACTURED OF HIGH STRENGTH URETHANG. THE FORM LINER MANUFACTURED OF HIGH STRENGTH URETHANG. THE FORM LINER COMPRESS MORE THAN QUET FWHEN POLICE VERTICALLY AT A RATE OF 10 FRICIAL THE LINERS SHALL BE CAPABLE OF MITHOUT LEARNING CAUSING PHYSICAL OF VISIAL DEFECTS. THE LINERS SHALL BE REMOVABLE WITHOUT CAUSING CONCRETE SURFACE DETERIORATION OF WEARNESS IN THE SUBSTRIVE. C.PRIOR TO EACH POUR THE FORM LINERS SHALL BE CLEANED AND FREE OF BUILD-UP. EACH LINER SHALL BE VISUALLY INSPECTED FOR BLEMISHES AND TEARS. REPAIRS SHALL BE MADE IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. D. FORM LINERS SHALL BE SECURELY ATTACHED TO FORMS IN CONFORMANCI WITH THE MANUFACTURER'S RECOMMENDATIONS, AND WITH LESS THAN A 14 INCH SEAM. E. WHEN FORM OR WALL TIES ARE USED WHICH RESULT IN A PORTION OF THE TIE PERMANENTLY EMBEDDED IN THE CONCRETE, THE CONTRACTOR SHALL SUBMIT THE TYPE OF FORM TIES TO THE ENGINEER FOR APPROVAL F. THE RELEASE AGENT SHALL BE COMPATIBLE WITH THE SURFACE FINISH AND CONCRETE STAIN TO BE APPLIED FORM PELESSE AGENT SHALL BE ADDRESSED FOR THE SHALL BE ADDRESSED FOR THE SHALL BE ADDRESSED FOR THE SHALL BE APPLIED IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

CONCRETE FORM G. SIMULATED STONE FORM LINERS SHALL BE INSTALLED, PREPARED. STRIPPED, HANDLED, OR COTHERWISE, UTILIZED, N. CONTORMANCE.

STRIPPED, HANDLED, OR COTHERWISE, UTILIZED, N. CONTORMANCE.

BY THE RENINEER, LINER BUTT JOINTS SHALL BE CAREFULLO FOR PROBLEMENT OF THE APPROVED PATTERN AND BE REMOVED DURING PROBLEMENT SHEEP, PROBLEMENT WITH AND THE PROBLEMENT OF THE SIMULATED STONE FORM LINERS WILL BE CAUSE FOR REJECTION, FORM THE PLOYER SHALL BE PLOYED IN THAT ALL MATERIA IN THE DEVICE BE TO A DEPTH OF AT LEAST 1 INCH BEHIND THE CONCRETE FACE BOTTOM OF GROUP PATTERN OF THE PROBLEMENT OF THE PROCESS OF THE PROBLEMENT OF THE PROBLEM

- H. COLOR AND SUPFICE FINISH.

 1. THE PAPPOPERS SAMPLE SPANELS SHALL BE THE BASIS FOR DETERMINING.
 1. THE PAPPOPERS AND PROPERTIES OF THE PAPPOPERS AND PROPAGATION OF THE PAPPOPERS AND PROPAGATION OF THE PAPPOPERS AND PROPAGATION OF THE ENGINEER AT NO ADDITIONAL COST TO THE COUNTY.
- 2.THE CONTRACTOR SHALL PRESSURE WASH THE SURFACE WITH WATER WITH A PRESSURE WASHER SET AT 3000 PSITO REMOVE LITTANCE. THE FAN NOZZLE SHALL BE HELD PERPENDICULAR TO HE SURFACE AT A DISTANCE SPECIFIED. THE COMPLETED SURFACE SHALL BE FREE OF BLEMSHES. DISCOLORATIONS, SURFACE PROIS, AND CONSIGNATION SURFACE PROIS, AND CONSIGNATION OF THE ENGINEER THE CONTRACTOR SHALL CORRECT ANY SURFACE PROBLEMS AT NO ADDITIONAL COST TO THE COUNTRACTOR.
- 3. ALL MATERIALS SHALL BE FURNISHED PREPARED, APPLIED, CURED, AND STORED IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR USE INTENDED AS SPECIFED HERN, WITH SPECIAL ATTENTION GIVEN TO RECOMMENDED TEMPERATURE RANGE.
- 4.THE EXPANSION JOINTS SHOWN ON THE PLANS SHALL BE FINISHED IN A MANUER THAT WILL VISUALLY CONTINUE AN UNINTERRUPTED SIMULATED STONE PATTERN, A SAMPLE OF THE COLOR EXPANSION JOINT MATERIAL SHALL BE INCLUDED IN THE SAMPLE PANEL FOR APPROVAL.
- 5. SPECIAL SURFACE FINISH SHALL BE APPUED TO ALL EXPOSED SIMULATED STONE FORMED CONCRETE SURFACES EXCEPT THE PARAPET CAPS, WHICH SHALL BE UNFINISHED AND SEALED WITH A MATTE FINISH TRANSPARENT WATERPROOFING COATING.
- I. THE FORM LINER PATTERN SHALL BE CUSTOM ROCK INTERNATIONAL PATTERN #1114 OR AN APPROVED EQUIVALENT. THE FORM LINER SHALL REPLICATE A REAL STONE PATTERN CONSISTING OF PARNOOM CUT STONE VENEER WITH THE FOLLOWING DIMENSIONAL RANGES FOR INDIVIDUAL STONE.
- 1. THE INDIVIDUAL STONE SIZES RANGE FROM BETWEEN 19 TO 53 INCHES.
- 2. THE DIMENSION OF FORM LINER REVEAL FROM THE OUTERMOST FACE OF STONE TO THE INSIDE FACE OF THE GROUT PATTERN SHALL BE AN AVERAGE OF 134 INCHES, BUT A MAXIMUM OF 2 12 INCHES.
- CONCRETE STAN. THERE COLORS (ONE BASE COLOR ONE SURFACE COLOR, AND ONE HIGHLIGHT COLOR) SHALL BE APPLIED TO GIVE THE APPEARANCE OF NATURAL STOKE THE BASE COLOR SHALL BE APPLIED TO THE ENTIRE SURFACE STOKES AND GROUT PATTERN JOINTS, THE SURFACE COLOR SHALL BE APPLIED TO 180%, OF THE SURFACE OF SURLANDED STOKES AND GROUT PATTERN JOINTS, THE SURFACE OF THE SMILLARDS STOKES SHALL BE APPLIED TO THE SIMPLAND HIGHLIGHT COLOR SHALL BE APPLIED TO THE SIMPLAND HIGHLIGHT COLOR SHALL BE APPLIED TO THE SMULTATE STOKES SIM A SPONSE AND SPALAL NOT BE APPLIED TO THE GROUT PATTERN JOINTS. THE COLORS AND APPLICATION PATES SHALL BE AS FOLIOWS.

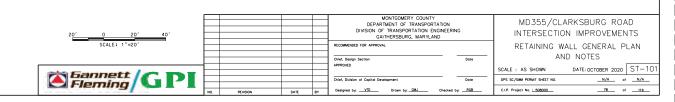
PERCENT COVERAGE 100 80% OF STONE SURFACE & EDGES 10-70 BASE COLOR SURFACE COLOR HIGHLIGHT 1

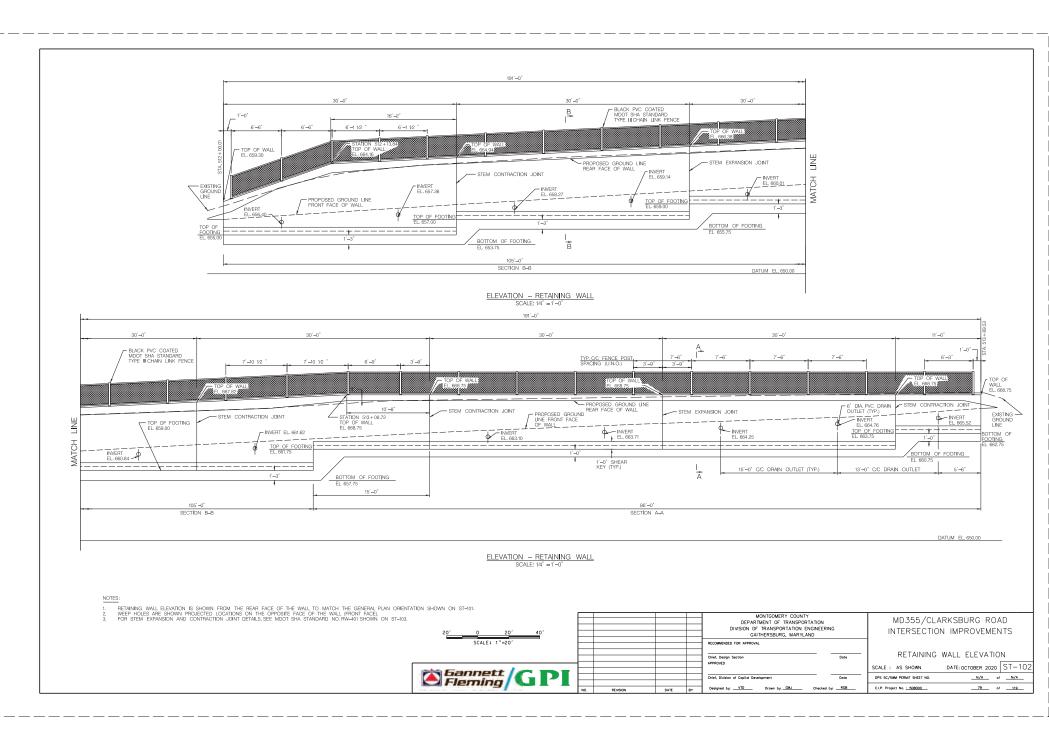
0 EXISTING STREET LIGHT (TYP.) CONSTRUCTION EASEMENT PROPOSED ROW 9-3 18" DIA, RCP (SEE PS-09) 8"S TO MD 27 SHA TYPE A"CURB"&"GUTTER-(SEE PS-09) TO HYATTSTOWN 512+00 514+00 N 45°29'58.70" W 513+00 AND UTILITIES EXISTING ROW STATION 512+00.01 OFFSET 33.46' RT T.O.W. EL. 659.30 0 PROP BOW -MANHOLE (TYP) EXISTING PARKING LOT TO BE PARTIALLY REMOVED - TEMPORARY CONSTRUCTION EASEMENT T.O.W. EL. 668.75 MH 9-4 6" DIA PVC DRAIN OUTLET TO 8" DIA PVC (TYP.) TEMPODADY EXISTING BUILDING #23415 TO REMAIN UNDISTURBED SHEETING/SHORING

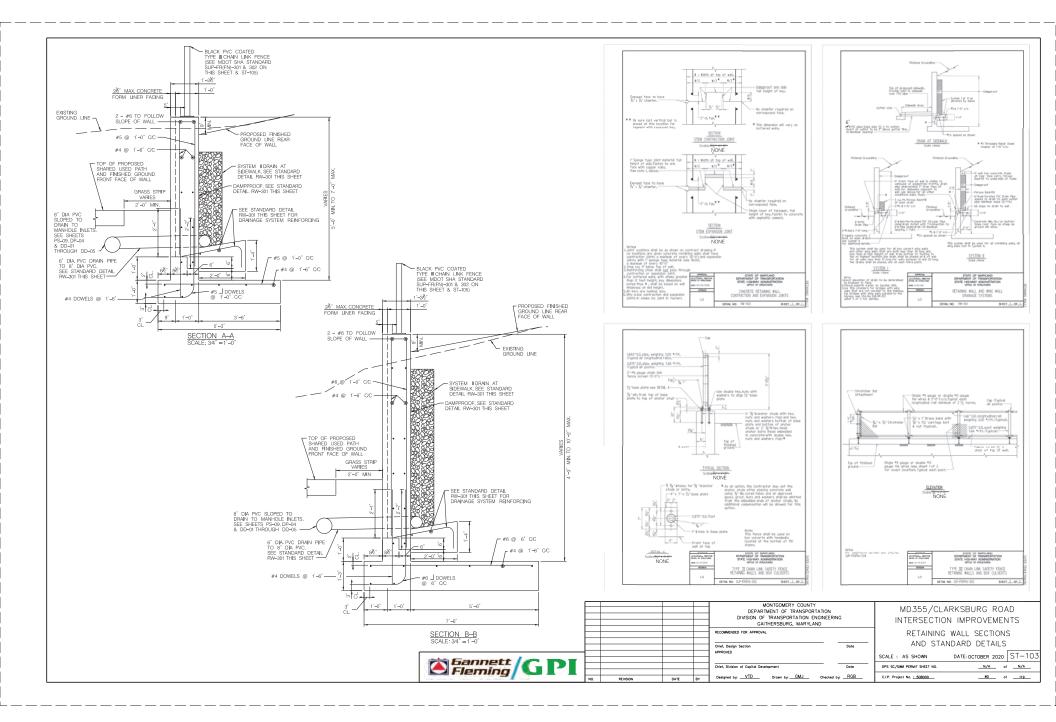
GENERAL PLAN - RETAINING WALL

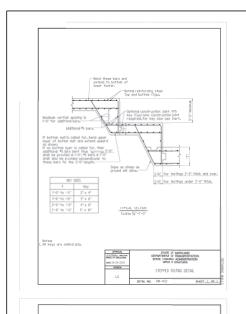
NOTES:

- 1. THE DESIGN OF THE TEMPORARY SHEETINGSHORING IS THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE DONE BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MARYLAND, AND SUBMITTED TO AREA ENGINEER FOR REVIEW AND
- 2. SHOP DRAWINGS FOR RETAINING WALL MUST BE REVIEWED AND APPROVED BY THE AREA ENGINEER & MCDOT.
- 3. FOR RETAINING WALL ELEVATION REFER TO SHEET ST-102.
- 4. FOR RETAINING WALL SECTION A-A & B-B, REFER TO SHEET ST-103.
- 5. FOR STANDARD JOINT AND WALL DRAINAGE SYSTEM DETAILS REFER TO SHEET ST-103.
- 6. FOR STANDARD REINFORCING DETAILS, REFER TO SHEETS ST-104 & ST-105.
- 7. FOR BORING LOGS REFER TO SHEET ST-106.
- 8. BASELINE OFFSETS ARE MEASURED TO THE REAR FACE OF THE RETAINING WALL.
- 9. FOR 8" DIA PVC AND ADDITIONAL DRAINAGE DETAILS SEE SHEETS PS-09, DP-04 & DD-01 THROUGH DD-05.





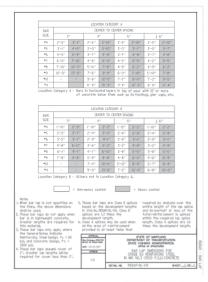


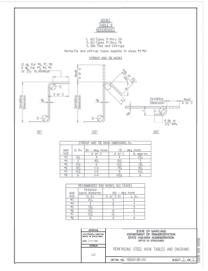


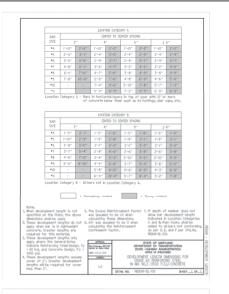
I, ACI Types I thru 25 2, SNI Shandard Pin Bending 3, SNI Radius Bendins

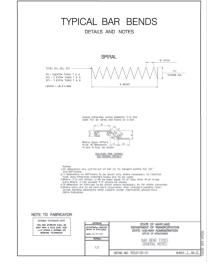
fer 180 - deg hook 90 - deg hook 80 a or 1 kr

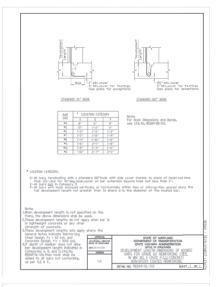
REINFORCING STEEL HOW TABLES AND DIAGRAMS

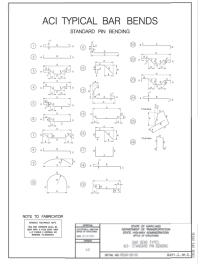


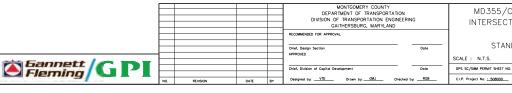












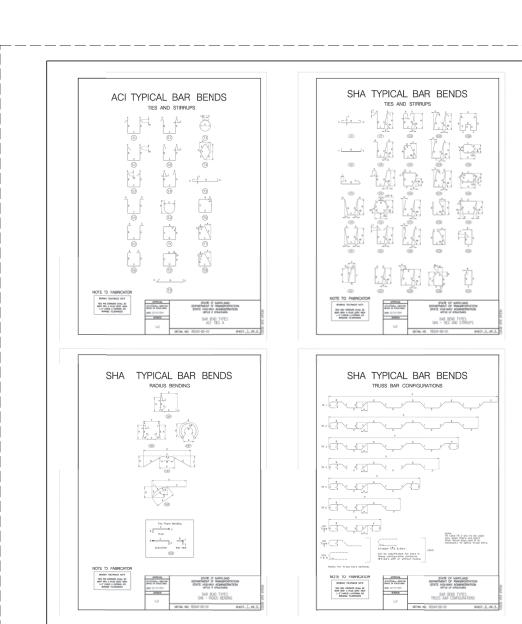
MD355/CLARKSBURG ROAD

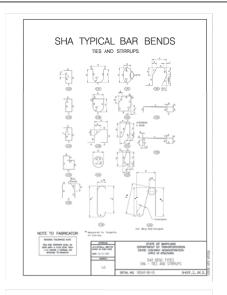
INTERSECTION IMPROVEMENTS

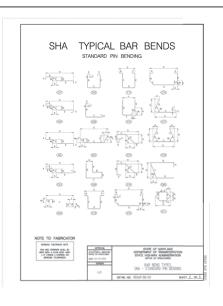
STANDARD DETAILS 1

DATE: OCTOBER 2020 ST-104

N/A of N/A









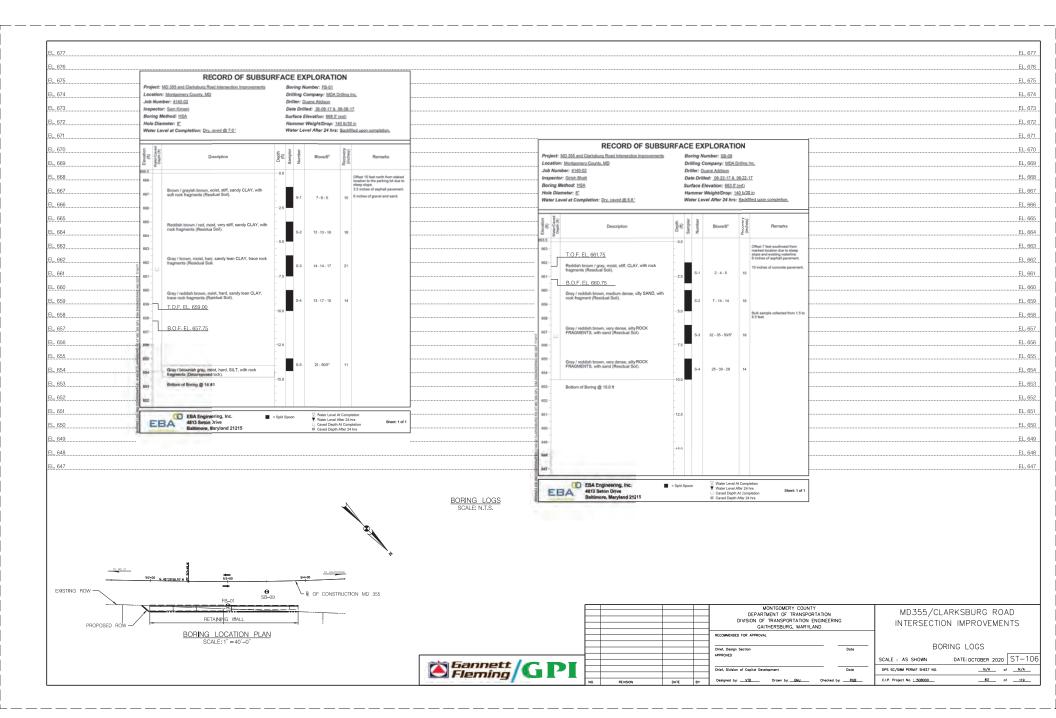


MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND RECOMMENDED FOR APPROVAL Chief, Design Section
APPROVED Seannett GPI

MD355/CLARKSBURG ROAD INTERSECTION IMPROVEMENTS

STANDARD DETAILS 2

DATE: OCTOBER 2020 ST-105 SCALE : N.T.S. DPS SC/SWM PERMIT SHEET NO. _N/A_ of _N/A_



GENERAL NOTES FOR MAINTENANCE OF TRAFFIC

- (I) ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE MONTGOMERY COUNTY, MD SHA WORK ZONE TRAFFIC CONTROL STANDARDS AND THE MD MUTCD AND SUBSEQUENT REVISIONS ADOPTED BY THE STATE OF MARYLAND, THE PROJECT BOOK OF SPECIAL PROVISIONS, AND THE OTHER CONTRACT DOCUMENTS.
- PAVEMENT MARKINGS NO LONGER APPLICABLE SHALL BE REMOVED COMPLETELY AS DIRECTED BY THE ENGINEER.
- TEMPORARY PAINT SHALL BE USED ON PAVED SURFACES ONLY AND IS TO BE MAINTAINED TO ENSURE CONTINUOUS REFLECTIVITY AND VISIBILITY, TEMPORARY PAINT SHALL NOT BE USED ON THE FINAL SURFACE, BLACK PAINT SHALL NOT BE PERMITTED.
- TEMPORARY TAPE SHALL BE PERMITTED ON EITHER ASPHALT OR CONCRETE SURFACES.
- ALL EXISTING SIGNS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE CONSTRUCTION UNLESS A CHANGE IS DIRECTED BY THE ENGINEER.
- VARIABLE MESSAGE SIGN(S) MESSAGES MAY BE MODIFIED AS DIRECTED BY THE ENGINEER.
- ADVANCE WARNING SIGNS SHALL BE INSTALLED AT A MINIMUM SPACING OF 200 FEET TO AN EXISTING SIGN, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- SIGNS USED FOR TEMPORARY TRAFFIC CONTROL THAT ARE NOT APPLICABLE FOR A PARTICULAR CONSTRUCTION STAGE SHALL BE REMOVED OR COMPLETELY COVERED WITH A NON-TRANSPARENT
- EXCAVATIONS IN AREAS WHERE THE WORK BUFFER IS LESS THAN ONE LANE SHALL BE BACKFILLED WITH GAB FOR MOT PRIOR TO THE END OF THE WORK DAY IN CONFORMANCE WITH STD. MD 104.01-28 OR APPLICABLE MONTGOMERY COUNTY STANDARDS.
- NO WORK IS TO BEGIN UNTIL ALL ADVANCE WARNING SIGNS, CHANNELIZATION DEVICES, AND PAVEMENT MARKINGS ARE IN PLACE AND OPERATIONAL.
- THE CONTRACTOR SHALL USE STEEL PLATES TO COVER ANY AND ALL OPEN TRENCHES AT THE END OF THE WORK DAY OR WHEN ALL LANES OF TRAFFIC ARE TO BE OPENED TO TRAFFIC.
- (12) TYPICAL APPLICATIONS TO BE USED FOR OFF-PEAK HOUR WORK MAY BE MODIFIED AS REQUIRED BASED ON FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- (13) FLAGGING OPERATIONS IDENTIFIED WITHIN SPECIFIC SEQUENCES OF CONSTRUCTION SHALL BE UTILIZED AT THE DISCRETION OF THE COUNTY TRAFFIC ENGINEER. THE COST OF FLAGGING OPERATIONS SHALL BE CONSIDERED INCIDENTAL TO MAINTENANCE OF TRAFFIC OPERATIONS.
- (14) THE CONTRACTOR SHALL MAINTAIN A MINIMUM II' TRAVEL LANE IN EACH DIRECTION.
- MAINTAIN TRAFFIC SIGNAL OPERATIONS AT ALL TIMES, CONTRACTOR SHALL CONTACT MR. KAMAL HAMUD OF MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION TO COORDINATE SIGNAL WORK.
- (16) ASPHALT AND GRADED AGGREGATE BASE FOR MAINTENANCE OF TRAFFIC WILL BE INCIDENTAL TO MAINTENANCE OF TRAFFIC COST.
- THE CONTRACTOR SHALL COORDINATE WITH MOCO AND WMATA REGARDING BUS STOPS WITHIN WORK ZONE.
- PORTABLE VARIABLE MESSAGE SIGNS SHALL BE LOCATED AND DISPLAY MESSAGES AS DIRECTED BY THE ENGINEER, PROTECT AND DELINEATE PORTABLE VARIABLE MESSAGE SIGNS IN ACCORDANCE WITH MDSHA STANDARD NO. MD 104.01-22.
- PORTABLE VARIABLE MESSAGE SIGNS SHALL BE INSTALLED AND OPERATIONAL ALERTING THE PUBLIC OF UPCOMING CONSTRUCTION AND NEW TRAFFIC PATTERNS AT LEAST 7 DAYS PRIOR TO BEGINNING OF CONSTRUCTION AND SHALL BE USED PRIOR TO ANY NEW PHASE.

SEQUENCE OF CONSTRUCTION - STAGE I

- REMOVE EXISTING TRAFFIC BARRIER ON NORTHEAST CORNER OF INTERSECTION (CLARKSBURG TRIANGLE) AND REPLACE WITH TEMPORARY CONCRETE BARRIER, PLACE TYPE E END TREATMENT ON EACH END. CONTRACTOR SHALL MAINTAIN BARRIER UNTIL STAGE 4 OF CONSTRUCTION WHEN ROADSIDE HAZARDS NO LONGER REQUIRE PROTECTION.
- (2) BEGIN CONSTRUCTION OF DRAINAGE FEATURES AS SHOWN ON EROSION AND SEDIMENT PHASE I PLANS UTILIZING FLAGGER OPERATIONS ROM 104-02-10) AND INTERSECTION FLAGGING OPERATIONS ROM 104-02-10, SHOULDER WORK WID 104-03-02 AND LEFT LANE CLOSURE WID 104-03-04) N RIGHT LANE CLOSURE WID 104-03-06) OR APPLICABLE MONTOWERY COUNTY STANDARDS.
 - (A) CONTRACTOR SHALL PERFORM AS MUCH WORK AS CAN BE ACCOMPLISHED DURING OFF PEAK HOURS.

 (B) AT THE END OF THE WORK DAY ROADWAY ELEVATION SHALL BE BROUGHT TO MAINTAIN A MAXIMUM 2 INCH DROP-OFF.
- (3) WEDGE AND LEVEL CLARKSBURG ROAD, MAINTAINING TRAFFIC ON MD 355 (N FREDERICK ROAD) AND CLARKSBURG ROAD UTILIZING FLAGGER OPERATIONS (MD 104.02-10) AND INTERSECTION FLAGGING OPERATIONS (MD 104.02-14) OR APPLICABLE MONTGOMERY COUNTY STANDARDS.
 - (A) CONTRACTOR SHALL PERFORM AS MUCH WORK AS CAN BE ACCOMPLISHED DURING OFF PEAK HOURS.

 (B) AT THE END OF THE WORK DAY ROADWAY ELEVATION SHALL BE BROUGHT TO MAINTAIN A MAXIMUM 2 INCH DROP-OFF.

SEQUENCE OF CONSTRUCTION - STAGE 2

- (I) MAINTAIN TWO WAY TRAFFIC ON EXISTING MD 355 (N FREDERICK ROAD) AND CLARKSBURG ROAD.
- (2) BEGIN GRADING AND CONSTRUCTION OF WIDENING ON MD 355 (N FREDERICK ROAD) AND CLARKSBURG ROAD UTILIZING SHOULDER WORK (MD 104,02-02 AND MD 104,03-02) AND RIGHT LANE CLOSURE (MD 104,03-06) OR APPLICABLE MONTGOMERY COUNTY STANDARDS.

 - (A) CONTRACTOR SHALL PERFORM AS MUCH WORK AS CAN BE ACCOMPLISHED DURING A WORK SHIFT.

 (B) AT THE END OF THE WORK DAY ROADWAY ELEVATION SHALL BE BROUGHT TO MAINTAIN A MAXIMUM 2 INCH DROP-OFF.
- (3) CONTRACTOR SHALL MAINTAIN ACCESS TO RESIDENTIAL STREETS/DRIVEWAYS AT ALL TIMES.

SEQUENCE OF CONSTRUCTION - STAGE 3

- (I) MAINTAIN TWO WAY TRAFFIC ON EXISTING MD 355 (N FREDERICK ROAD) AND CLARKSBURG ROAD.
- (2) BEGIN GRADING AND CONSTRUCTION OF WIDENING ON MD 355 (N FREDERICK ROAD) AND MD 121A (CLARKSBURG ROAD) UTILIZING SHOULDER WORK (MD 104,02-02 AND MD 104,03-02) OR APPLICABLE MONTGOMERY COUNTY STANDARDS.
 - (A) CONTRACTOR SHALL PERFORM AS MUCH WORK AS CAN BE ACCOMPLISHED DURING A WORK SHIFT.

 (B) AT THE END OF THE WORK DAY ROADWAY ELEVATION SHALL BE BROUGHT TO MAINTAIN A MAXIMUM 2 INCH DROP-OFF.
- (3) CONTRACTOR SHALL MAINTAIN ACCESS TO RESIDENTIAL STREETS/DRIVEWAYS AT ALL TIMES.

SEQUENCE OF CONSTRUCTION - STAGE 4

- (I) SHIFT TRAFFIC AS NEEDED TO MAINTAIN TWO WAY TRAFFIC ON EXISTING MD 355 (N FREDERICK ROAD) AND CLARKSBURG ROAD.
- (2) BEGIN GRADING AND CONSTRUCTION OF WIDENING/SHARED USE PATH ALONG MD 355 (N FREDERICK ROAD) AND CLARKSBURG ROAD UTILIZING SHOULDER WORK (MD 104.02-02 AND MD 104.03-02) OR APPLICABLE MONTGOMERY COUNTY STANDARDS.

 - (A) CONTRACTOR SHALL PERFORM AS MUCH WORK AS CAN BE ACCOMPLISHED DURING A WORK SHIFT.

 (B) AT THE END OF THE WORK DAY ROADWAY ELEVATION SHALL BE BROUGHT TO MAINTAIN A MAXIMUM 2 INCH DROP-OFF.
- (3) PERFORM FULL DEPTH CONSTRUCTION OF SPIRE INTERSECTION AT MD 355. UTILIZING DETOUR SIGNAGE AS SHOWN ON MT-06.
- (4) WEDGE AND LEVEL SPIRE INTERSECTION AT CLARKSBURG ROAD, UTILIZING DETOUR SIGNAGE AS SHOWN ON MT-07.
- (5) STEP 3 AND 4 OF THIS STAGE SHALL NOT BE PERFORMED CONCURRENTLY, ACCESS TO SPIRE STREET MUST BE MAINTAINED AT ALL TIMES.

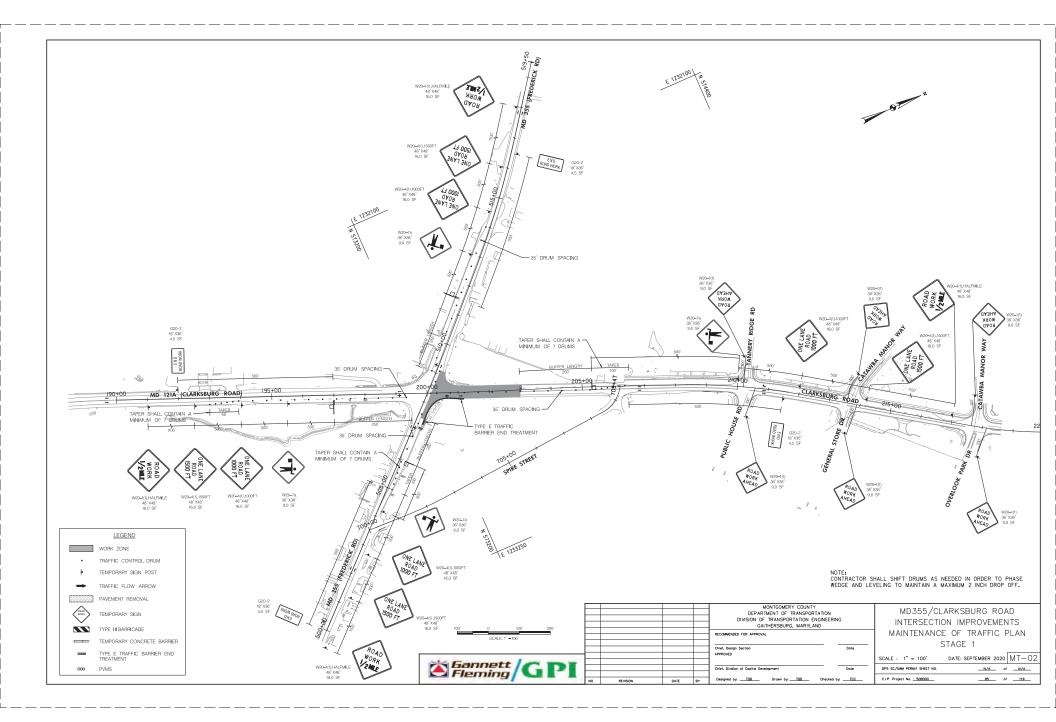
SEQUENCE OF CONSTRUCTION - STAGE 5

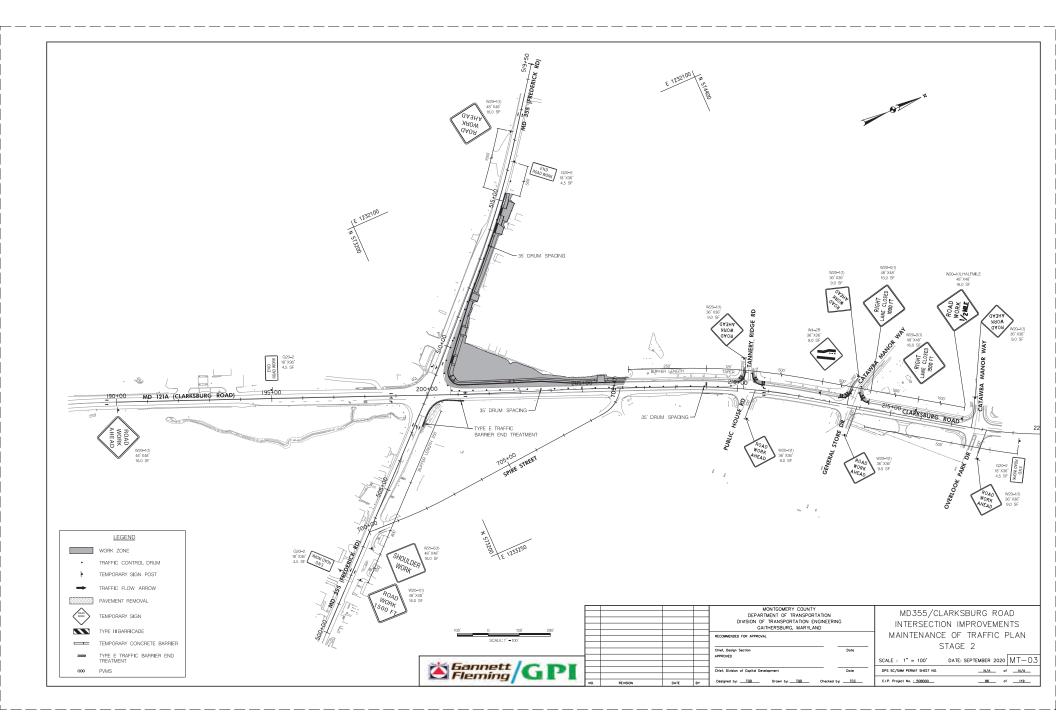
- (I) MAINTAIN TWO WAY TRAFFIC ON EXISTING MD 355 (N FREDERICK ROAD) AND CLARKSBURG ROAD.
- (2) BEGIN CONSTRUCTION OF PROPOSED SIGNALS UTILIZING SHOULDER WORK (MD 104.02-02 AND MD 104.03-02) OR APPLICABLE MONTGOMERY COUNTY STANDARDS.
 - (A) CONTRACTOR SHALL PERFORM AS MUCH WORK AS CAN BE ACCOMPLISHED DURING A WORK SHIFT.
- (3) CONTRACTOR SHALL INSTALL PROPOSED SIGNALS ON FINISHED ELEVATIONS PRIOR TO FINE MILLING AND RESURFACING ROADWAY,
- (4) CONTRACTOR SHALL TRANSFER OPERATIONS TO NEW TRAFFIC SIGNAL CONTRACTOR SHALL ALERT DRIVERS TO THE SIGNAL CHANGE TWO WEEKS PRIOR TO SIGNAL ACTIVATION USING G3-I(I) WITH ORANGE FLAGS.
- (5) ACTIVATE NEW TRAFFIC SIGNAL AT MD 355 (N FREDERICK ROAD) AND CLARKSBURG ROAD.
- (6) CONTRACTOR SHALL REMOVE EXISTING SIGNAL EQUIPMENT.
- PERFORM FINE MILLING AND RESURFACING AND INSTALL PAVEMENT MARKING ON FINAL PAVEMENT SURFACE.
- (8) BEGIN CONSTRUCTION OF MEDIAN ISLANDS ON CLARKSBURG ROAD UTILIZING WORK IN CENTER OF LOW VOLUME ROAD (MD 104.02-06) OR APPLICABLE MONTGOMERY COUNTY STANDARDS.

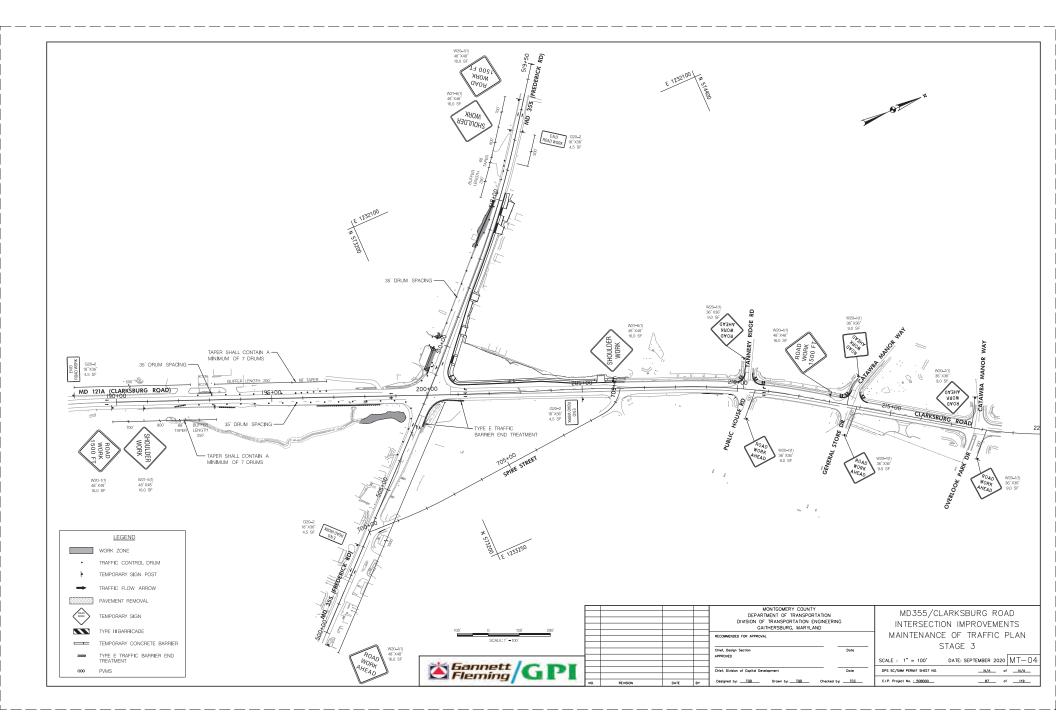
					RECOMMENDED FOR APPROVAL Chief, Design Section Date	MAINTENANCE OF TRAFFIC PLAN GENERAL NOTES & SEQUENCE
Sannett GPI					One, Despit Section APPROVED Child, Division of Capital Development Date	SCALE : N.T.S. DATE: SEPTEMBER 2020 MT-01
Z. Ichinig/	NO.	REVISION	DATE	84	Designed by: TGD Drown by: TGD Checked by: TCC	C.I.P. Project No. : 508000 84 of 119

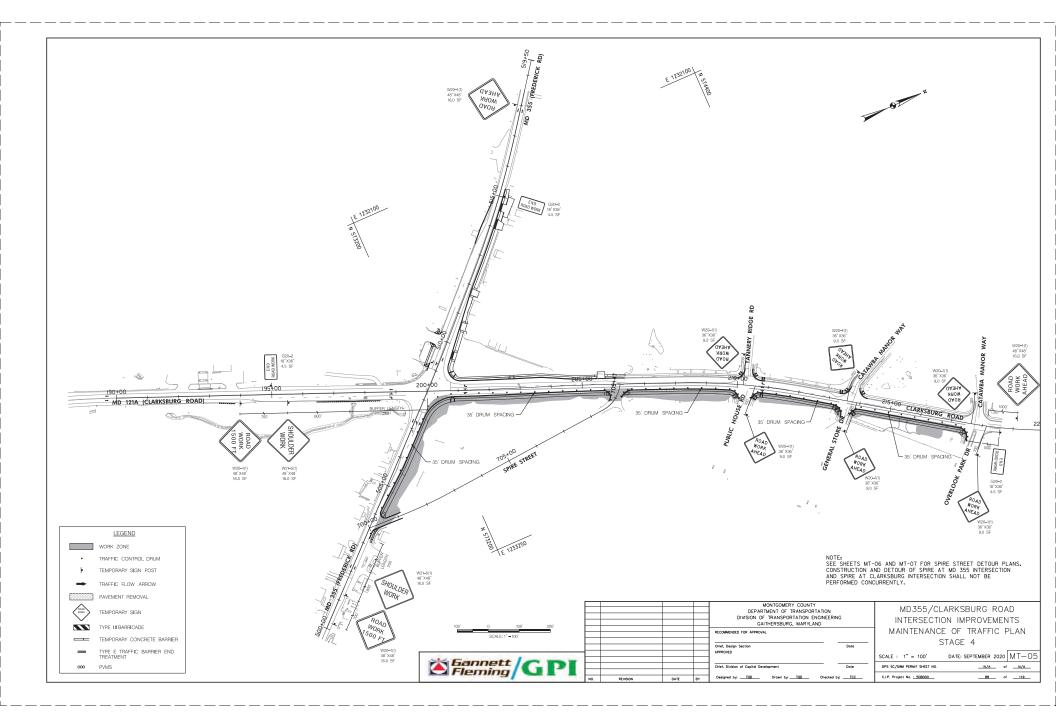
MONTGOMERY COUNTY

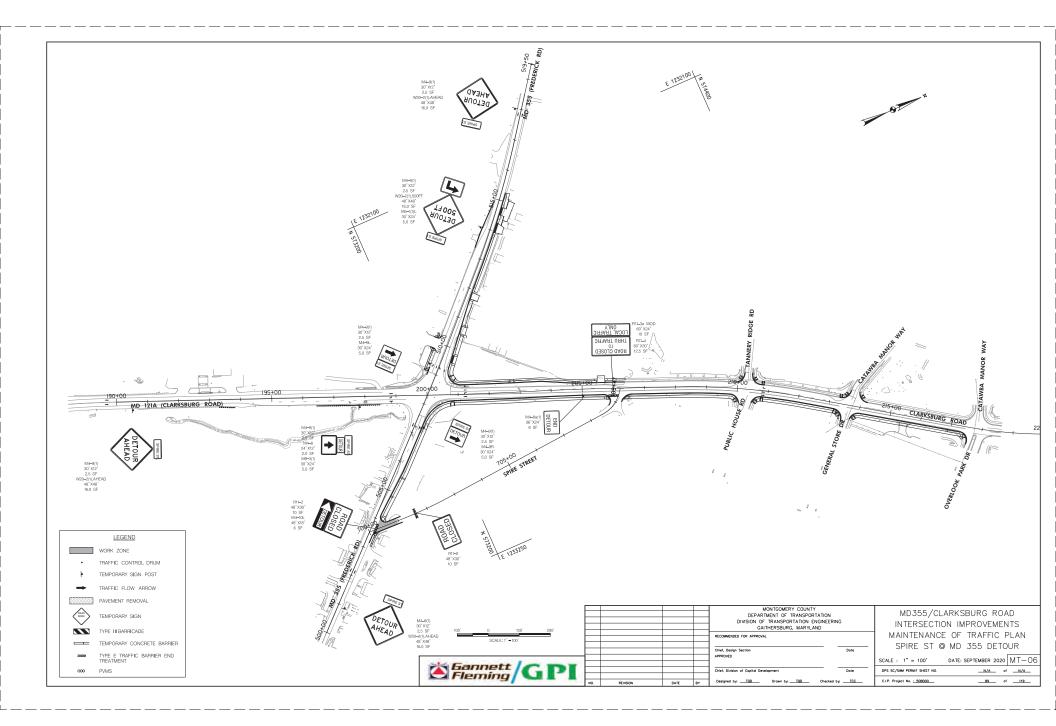
MOZEE /OLADICONIDO DOAD

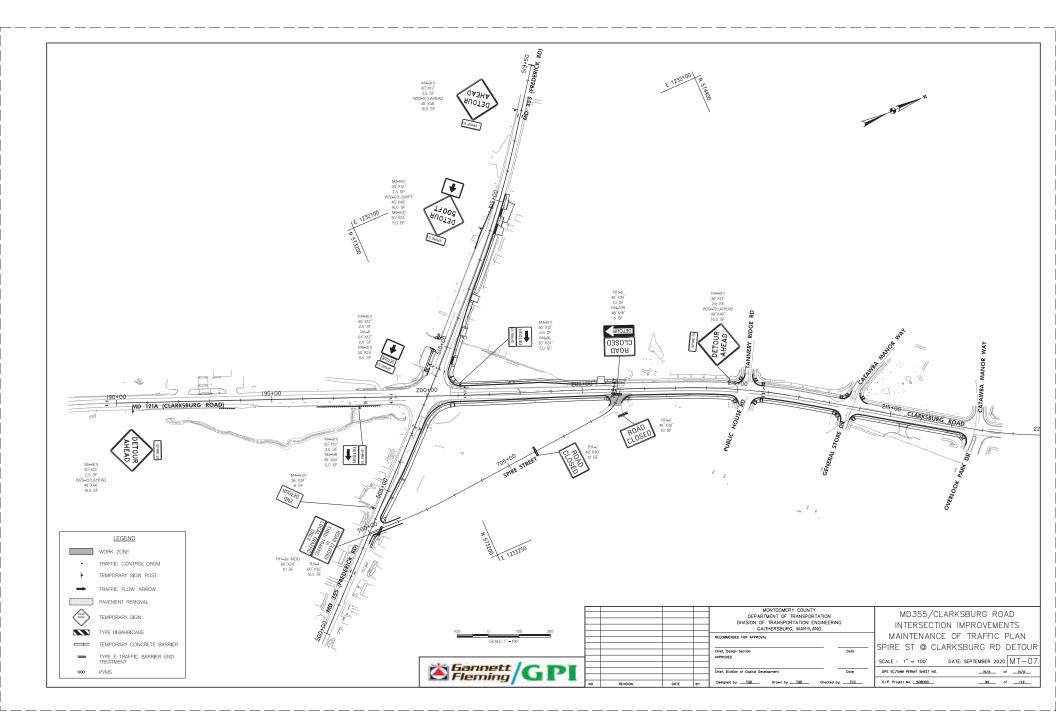


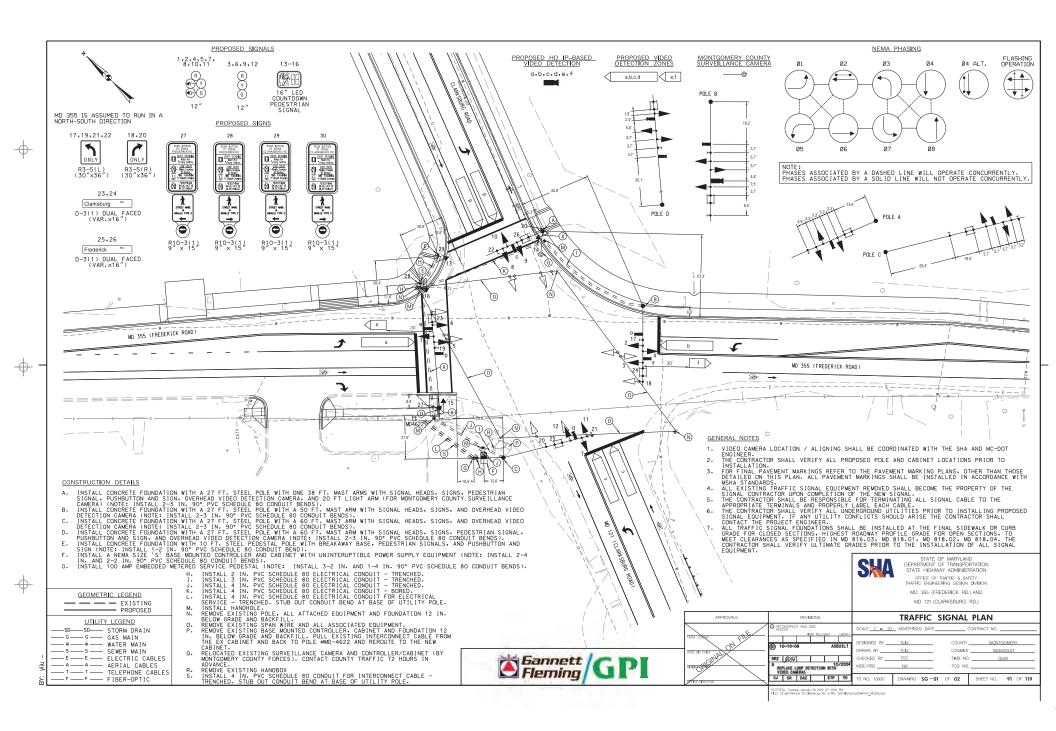


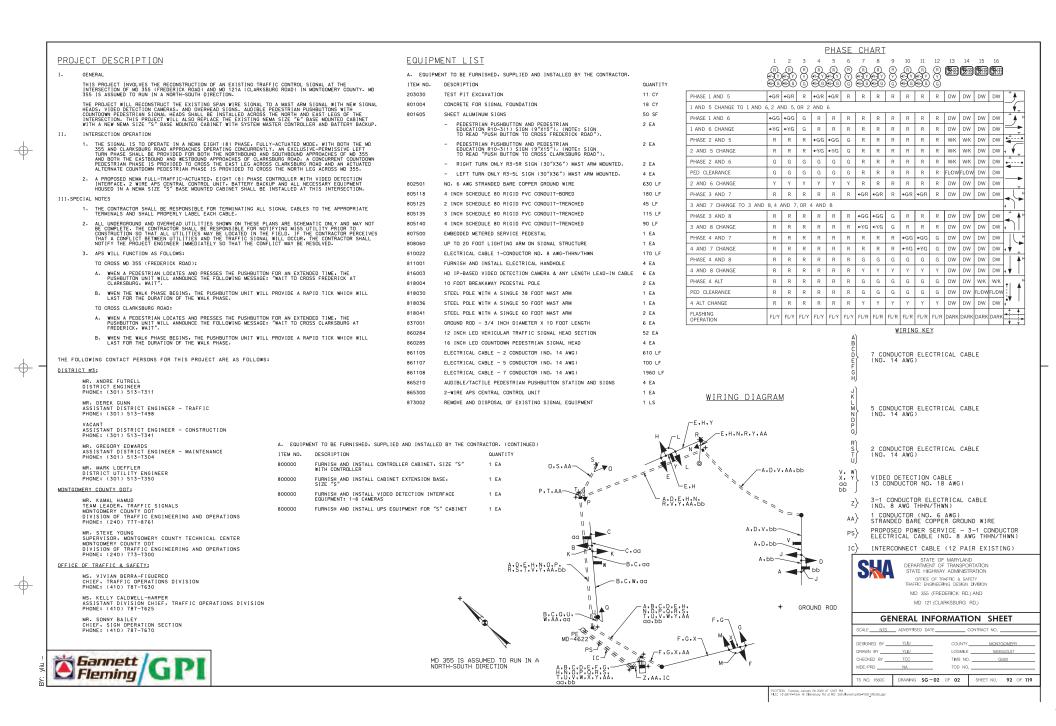












CRITERIA

THE CONTRACTOR SHALL BE GOVERNED BY THE STANDARDS AND REQUIREMENTS OF THE FOLLOWING PUBLICATIONS. EXCEPT AS MODIFIED BY THE SPECIAL PROVISIONS OF THIS CONTRACT:

MDOT SHA - 'MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES', 2011 EDITION AND SUBSEQUENT REVISIONS, (MDMUTCD)

A A S H T O - "HIGHWAY SAFETY DESIGN AND OPERATIONS GUIDE" -1997

A A S H T O - "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS LUMINAIRES AND TRAFFIC SIGNALS", 2001 EDITION (CATEGORY II FOR ALL OVERHEAD AND CANTILEVER SIGN STRUCTURES).

MATERIALS AND CONSTRUCTION

MDOT SHA - "STANDARD SPECIFICATIONS FOR CONSTRUCTION & MATERIALS", MOST CURRENT EDITION AND SUBSEQUENT REVISIONS AND SUPPLEMENTS.

MDOT SHA - "BOOK OF STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES",
MOST CURRENT EDITION AND SUBSEQUENT REVISIONS AND SUPPLEMENTS.

ALL DISTRICTS

DESIGN WIND

IOO MPH - WOOD SUPPORTS IO YEAR RECURRENCE INTERVAL

100 MPH - GROUND MOUNT SIGN STEEL SUPPORTS IO YEAR RECURRENCE INTERVAL

100 MPH - OVERHEAD AND CANTILEVER STRUCTURES 50 YEAR RECURRENCE INTERVAL

DESIGN STRESS

SOIL BEARING PRESSURE - S = 3,000 P.S.F. (ASSUMED) SEE MATERIAL & CONSTRUCTION ABOVE AND SPECIAL PROVISIONS FOR DESIGN STRESSES FOR STRUCTURAL STEEL, ALUMINUM, REINFORCING STEEL AND CONCRETE.

CHAMFER

ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" X 3/4" CHAMFER.

CLASSIFICATION OF SIGNS

SIGNS ARE DIVIDED INTO TWO (2) GENERAL CATEGORIES. B) PANELS

I, GUIDE SIGNS A) STRUCTURAL TYPES

COPY - DIRECT APPLIED OH - OVERHEAD I) HIGH INTENSITY (NEW SIGNS AND C - CANTILEVER REVISIONS TO EXISTING SIGNS)

GM - GROUND MOUNT, BREAKAWAY OR NON-BREAKWAY

B) PANELS 2. STANDARD SIGNS (REGULATORY, WARNING, ETC.)

A) STRUCTURAL TYPES WOOD SUPPORTS

MATERIAL - SHEET ALUMINUM COPY - DIRECT APPLIED

MATERIAL - EXTRUDED ALUMINUM

IDENTIFICATION OF SIGNS AND PANELS

GUIDE SIGNS

EACH GUIDE SIGN IS IDENTIFIED BY A SIGN NUMBER ON THE PLANS AND IN THE TABLILATIONS, (GM-I, GM-2, GM-3, etc.)

SIGNS ON STRUCTURES ARE IDENTIFIED WITH A NUMBER AND WHERE VARIATIONS OCCUR, A LOWER CASE LETTER, (OH-Ig. OH-Ib. OH-Ic)

STANDARD SIGNS

STANDARD SIGNS ARE IDENTIFIED BY PANEL NUMBERS AND ARE CLASSIFIED AS FOLLOWS

- R REGULATORY W - WARNING
- M ROUTE MARKERS AND ACCESSORIES D DESTINATION AND MILEAGE PANELS
- S SCHOOL

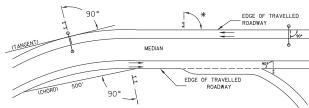
PANELS SHALL BE DESIGNATED TO AGREE WITH MARYLAND STANDARD SIGN BOOK. EACH STANDARD SIGN IS IDENTIFIED FIRST BY THE SHEET NUMBER, THEN BY THE NUMERICAL ORDER OF THE SIGN AS IT APPEARS ON THE PLAN.

FOR EXAMPLE SHEET SN 2.1-101,102,103, ETC. SHEET SN 2.2-201,202,203,ETC.

PANEL LAYOUT AND ALPHABETS

I. GUIDE SIGN PANEL LAYOUTS ARE BASED ON THE A.A.S.H.T.O. MANUALS NOTED ABOVE. 2. STANDARD SIGN PANEL LAYOUTS ARE BASED ON THE MOMITTOD WITH SPECIFICATIONS DETAILED IN THE MARYLAND STATE HIGHWAY ADMINISTRATION PUBLICATION, "STANDARD SIGN BOOK", AVAILABLE ONLINE AT http://apps.roads.maryland.gov/businesswithsha/ bizstdsspecs/desmanualstdpub/publicationsonline/oots/internet_signbook.asp

ORIENTATION OF SIGN FACES



* UNDER 30 FEET FROM TRAVELLED ROADWAY TO NEAR EDGE OF SIGN - 93° AWAY FROM THE ROAD TO AVOID SPECULAR REFLECTION AS INDICATED IN 813.03 OF THE MARYLAND STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS.

OVER 30 FEET FROM TRAVELLED ROADWAY TO NEAR EDGE OF SIGN - 90°

REFLECTORIZATION

BACKGROUNDS, BORDERS, TEXTS AND ALL OTHER FLEMENTS OF SIGN PANELS SHALL BE REFLECTORIZED EXCEPT WHERE NOTED. REFER TO PROJECT REQUIREMENTS FOR MORE DETAIL.

SIGN LOCATIONS

- I. GUIDE SIGNS ARE LOCATED ON THE PLANS BY DIMENSION TO SURVEY STATIONS, OR WHEN NECESSARY, TO IDENTIFIABLE PHYSICAL FEATURES
- 2. ALL CHANGES IN THE LOCATIONS OF SIGNS AS SHOWN ON THE PLAN SHALL HAVE THE PRIOR APPROVAL OF THE ENGINEER.

EXISTING UTILITIES

THE ENGINEER DOES NOT WARRANT OR GUARANTEE THE ACCURACY OR COMPLETENESS OF UTILITY INFORMATION SHOWN ON THE PLAN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING FACILITIES WHICH MIGHT BE AFFECTED BY THIS WORK OR HIS OPERATION.

ROADSIDE SIGNS

- I. VERTICAL ALIGNMENT
- POSITION PANEL SO FACE IS PLUMB. 2. HORIZONTAL ALIGNMENT (SEE DIAGRAM ABOVE)
- A) ON STRAIGHT ROADWAY SECTIONS, ANGLE OF SIGN FACE TO ROADWAY VARIES WITH
- DISTANCE FROM TRAVELLED ROADWAY TO NEAR EDGE OF SIGN SEE DIAGRAM. B) ON THE INSIDE OF HORIZONTAL CLIRVES POSITION SIGN SO FACE OF PANEL MAKES AN ANGLE OF 90° WITH A CHORD BETWEEN A POINT ON NEAR EDGE OF PAVEMENT AT SIGN LOCATION AND A POINT ON EDGE OF PAVEMENT 500' IN ADVANCE OF SIGN.
- C) ON THE OUTSIDE OF HORIZONTAL CURVES, POSITION SIGN SO FACE OF PANEL IS
 AT RIGHT ANGLES TO THE TANGENT OF THE CURVE AT THE SIGN LOCATION.
- D) POSITIONING OF SIGNS AT GORES AND RAMP SEPARATIONS IS REFERRED TO THE NORMAL EDGE OF THE MAINLINE ROADWAY.

OVERHEAD SIGNS

- I, VERTICAL ALIGNMENT
- POSITION PANELS FOR ALL OVERHEAD STRUCTURES SO THAT PANEL FACE IS PLUMB. 2. OVERHEAD SIGN STRUCTURES SHALL NOT BE ERECTED WITHOUT ATTACHING LUMINAIRES, SUPPORTS, AND/OR SIGNS,
- 3. HORIZONTAL ALIGNMENT A) POSITION ALL OVERHEAD SIGNS SO THAT THE FACE OF THE PANEL IS AT RIGHT ANGLES
- TO THE NORMAL EDGE OF ROADWAY, IF ON A STRAIGHT ROADWAY SECTION.
 B) POSITION ALL OVERHEAD SIGNS SO THAT THE FACE OF THE PANEL IS AT RIGHT ANGLES
- TO THE TANCENT OF THE CURVE AT SIGN LOCATION IF ON A HORIZONTAL CURVE C) POSITIONING OF SIGNS AT GORES AND RAMP SEPARATIONS IS REFERRED TO THE NORMAL EDGE OF THE MAINLINE ROADWAY.
- - A) OVERHEAD SIGNS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 17'-9" FROM ROADWAY TO THE BOTTOM OF LIGHT FIXTURES. ALL LIGHT FIXTURES ARE TO BE AT THE SAME ELEVATION.
 B) IF THE CONTRACTOR CANNOT OBTAIN 17'-9" (SEE 3A) CLEARANCE, HE IS TO CEASE WORK
 - AND CONTACT THE PROJECT ENGINEER FOR FURTHER INSTRUCTIONS. THE PROJECT ENGINEER MAY CONTACT THE TRAFFIC ENGINEERING DESIGN DIVISION FOR ASSISTANCE.
 - C) ON ALL OVERHEAD SIGNS, THE MINIMUM CLEARANCE TO BOTTOM OF DESIGN SIGN: 20'-9".

PROJECT REQUIREMENTS

ALL NEW SIGNS ON THIS PROJECT SHALL BE FABRICATED FROM SHEETING WHICH MEETS ALL OF THE FOLLOWING REQUIREMENTS, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, OR AS DIRECTED BY THE ENGINEER:

PROJECT REQUIREMENTS CONT'D

- I. SHEETING SHALL MEET THE REQUIREMENTS OF SECTIONS 813 AND 950.03 OF MDOT SHA'S STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS 2017 EDITION AND SUBSEQUENT
- 2. LISTED ON MDOT SHA OFFICE OF TRAFFIC AND SAFETY'S QUALIFIED PRODUCTS LIST (OPL).
- 3. THE FOLLOWING TYPES OF SHEETING SHALL BE USED FOR THE SPECIFIED SIGN CLASSIFICATIONS:

GENERAL NOTE: ALL COLORS SHALL BE RETRORFFIECTIVE EXCEPT BLACK REACK TEXT, BORDERS, SYMBOLS OR ANY BLACK ELEMENTS OF ANY SIGN SHALL BE NON-REFLECTIVE THIS APPLIES TO ALL MDOT SHA SIGNS AS SHOWN BELOW.

A) GUIDE, EXIT GORE, GENERAL INFORMATION, AND SERVICE SIGNS - FALL INTO TWO SUB CATEGORIES:

ALL RETRORESLECTIVE SHEETING FLEMENTS OF THESE SIGNS SHALL MEET OR EXCEED THE REQUIREMENTS FOR

(II). OVERHEAD STRUCTURE SIGNS AND OVERHEAD CANTILEVER SIGNS:
ALL RETROREFLECTIVE SHEETING ELEMENTS OF ALL OVERHEAD SIGNS SHALL MEET OR EXCEED THE REQUIREMENTS

FOR ASTM TYPE XI(II), (THIS SECTION DOES NOT APPLY TO OVERHEAD SIGNALIZED INTERSECTION SIGNING, MAST ARM OR SPAN WIRE, FOLLOW THE REQUIREMENTS FOR THE RESPECTIVE SIGN CLASSIFICATION FOR SIGNAL SIGNING,)

B) WARNING SIGNS - RETROREFLECTIVE SHEETING FOR WARNING SIGNS (FLUORESCENT YELLOW AND FLUORESCENT ORANGE) SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE IX (9), REGULATORY MESSAGES WITHIN WARNING SIGNS SHALL FOLLOW THE REQUIREMENTS FOR REGULATORY SIGNS.

C) SCHOOL SIGNS - RETROREFLECTIVE SHEETING FOR SCHOOL SIGNS (FLUORESCENT YELLOW AND FLUORESCENT YELLOW-GREEN) SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE IX (9). REGULATORY MESSAGES WITHIN SCHOOL SIGNS SHALL FOLLOW THE REQUIREMENTS FOR REGULATORY SIGNS.

D) REGULATORY SIGNS - FALL INTO THREE SUBCATEGORIES:

- (), "RED" REGULATORY SIGNS; (SPECIFICALLY STOP, YIELD, DO NOT ENTER AND WRONG WAY), ALL RETROREFLECTIVE SHEETING FLEMENTS OF THESE SIGNS SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE IX (9).
- (II), ALL R7 AND R8 SERIES PARKING RELATED SIGNS AND THEIR SUPPLEMENTAL PANELS, NO TRESPASSING SIGNS, AND SIGNS DIRECTED AT PEDESTRIANS AND BICYCLISTS ONLY, ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET THE REQUIREMENTS FOR ASTM TYPE IV (4).

(III). ALL OTHER REGULATORY SIGNS - ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET ASTM TYPE IV (4) INCLUDING RED ELEMENTS. WARNING MESSAGES WITHIN REGULATORY SIGNS SHALL FOLLOW THE REQUIREMENTS FOR WARNING SIGNS.

E) ROUTE MARKERS (INDEPENDENT USE AND GUIDE SIGN USE:

INDEPENDENT USE: ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET BUT NOT TO EXCEED THE REQUIREMENTS FOR ASTM TYPE IV (4).

GUIDE SIGN USE: WHEN INCORPORATED IN THE BODY OF A GUIDE SIGN, ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET THE SHEETING REQUIREMENTS OF THE GUIDE SIGNS FOR WHICH THEY ARE TO BE APPLIED; GROUND MOUNT ASTM TYPE IX (9) OR OVERHEAD ASTM TYPE XI(II).

F) LOGOS AND / OR GRAPHICS - WITHIN SIGNS SHALL FOLLOW THE REQUIREMENTS FOR THE RESPECTIVE SIGN CLASSIFICATION UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, OR AS DIRECTED BY THE ENGINEER.

G) SPECIFIC SERVICE (LOGO) SIGNING - ALL COPY DIVIDER BORDERS LOGOS AND ARROWS SHALL BE DEMOLINTARLE ALUMINUM OVERLAYS, .032 MINIMUM TO .063 MAXIMUM. ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE IX (9), DISTANCES ON DIRECTIONAL ARROWS WHEN SPECIFIED SHALL BE BLACK, THE OVERLAYS ARE TO BE APPLIED WITH J25 ALUMINUM POP RIVETS TO THE BODY OF

H) CIVIL DEFENSE SIGNS AND OTHER SIGNS - NOT SPECIFICALLY FALLING INTO ONE OF THE CATEGORIES ABOVE, SHALL FOLLOW THE GUIDELINES FOR THE SIGN CLASSIFICATION THAT MOST CLOSELY MATCHES THE COLOR(S) OF THE PROPOSED SIGN.

4. THE FOLLOWING MINIMUM THICKNESS SHALL BE USED FOR THE APPROPRIATE WIDTH OF SHEET ALUMINUM BLANKS:

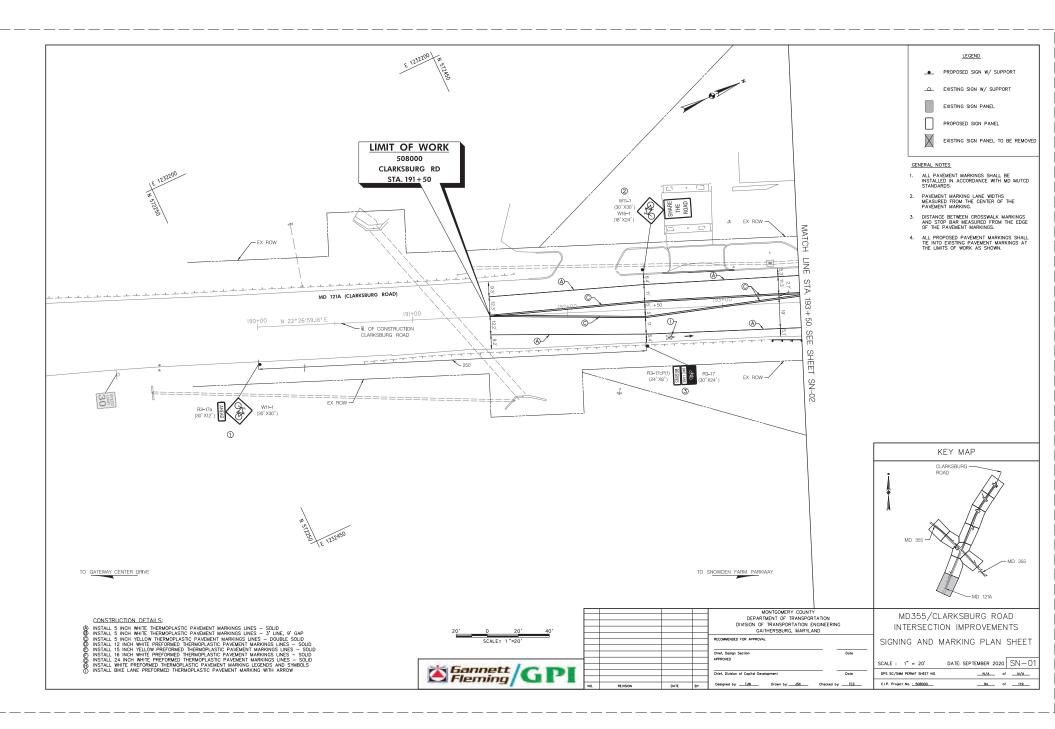
LONGEST DIMENSION MINIMUM THICKNESS HP TO 12" 0.040 GREATER THAN 12" TO 24".. GREATER THAN 24" TO 36" 0.080 GREATER THAN 36" TO 48". 0.100 OVER 48'... .0,125

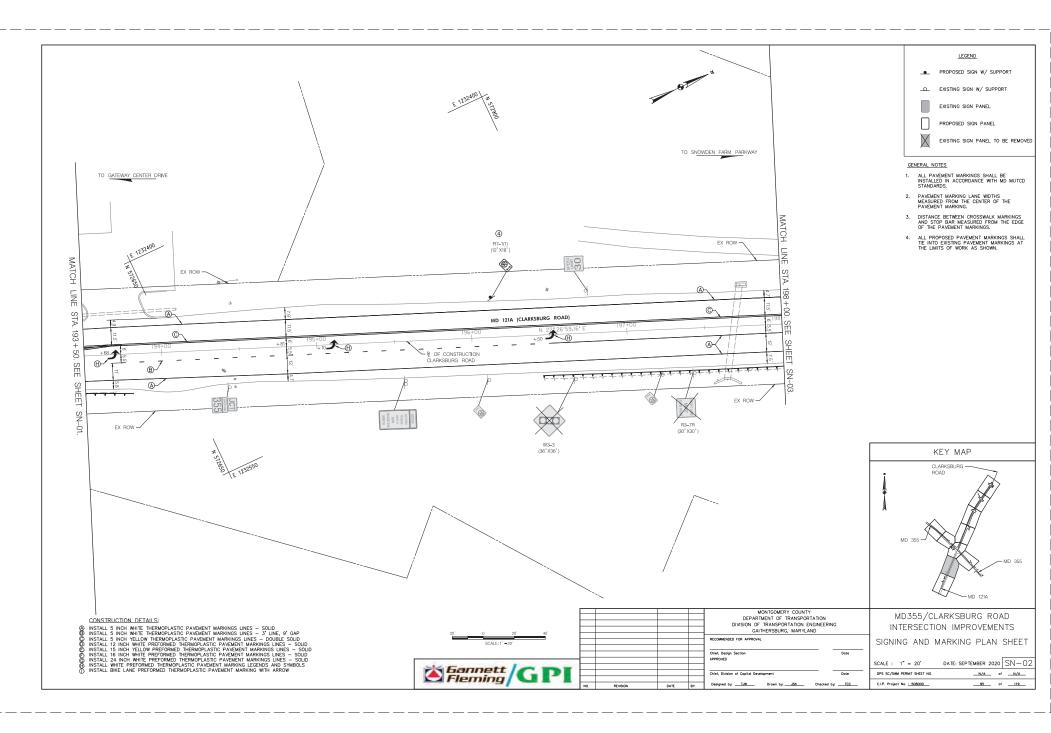
APPROVALS

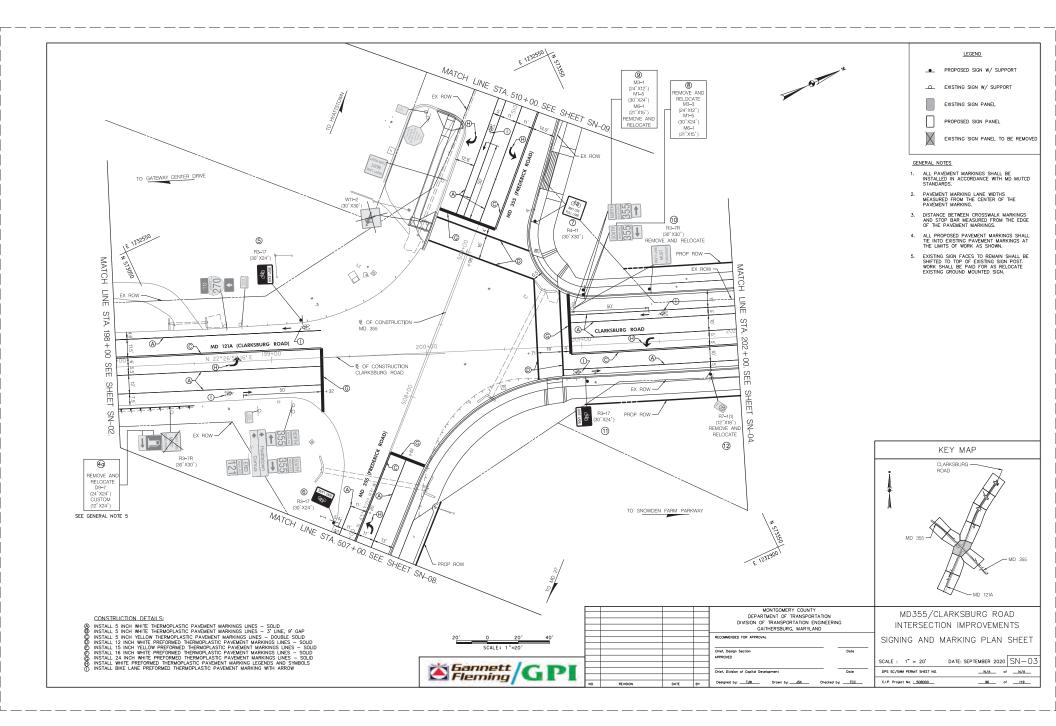
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND RECOMMENDED FOR APPROVAL SCALE : N.T.S. Sannett GP DPS SC/SWM PERMIT SHEET NO

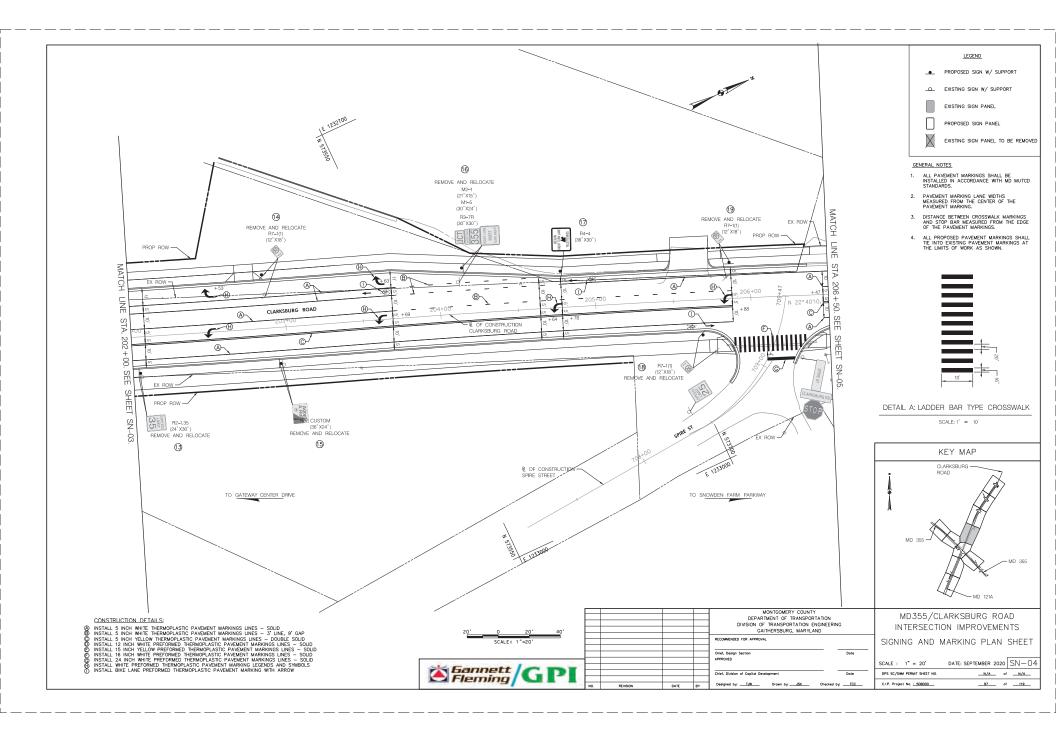
MD355/CLARKSBURG ROAD INTERSECTION IMPROVEMENTS SIGNING AND MARKING

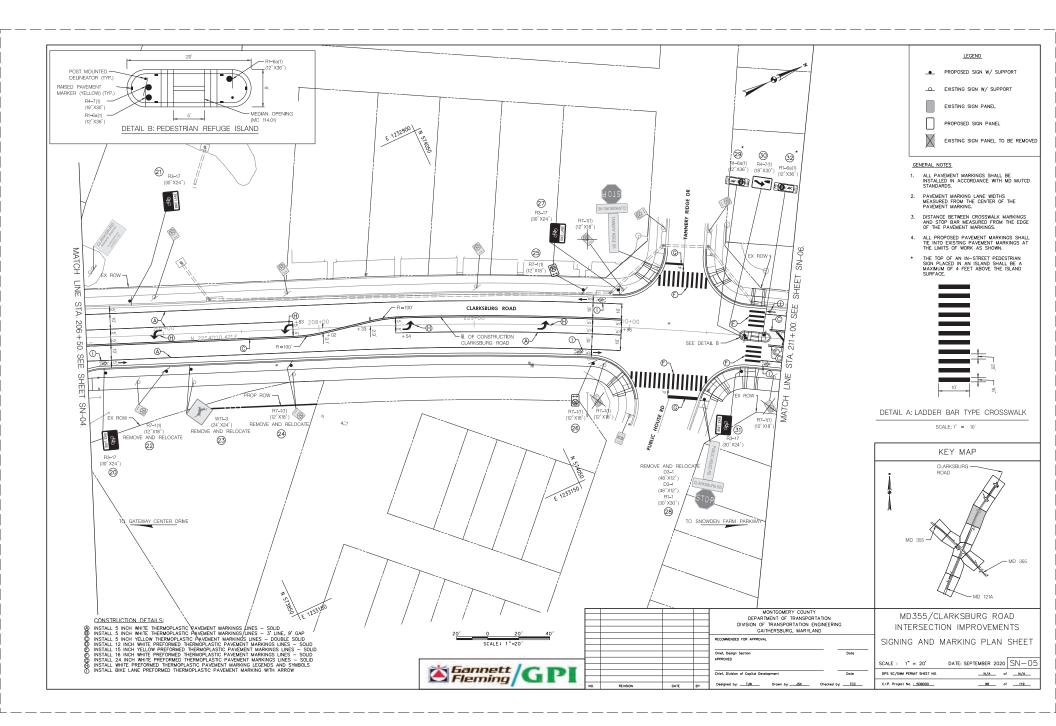
GENERAL NOTES AND PROPOSALS DATE: SEPTEMBER 2020 SN-00 N/A of N/A 93 of 119

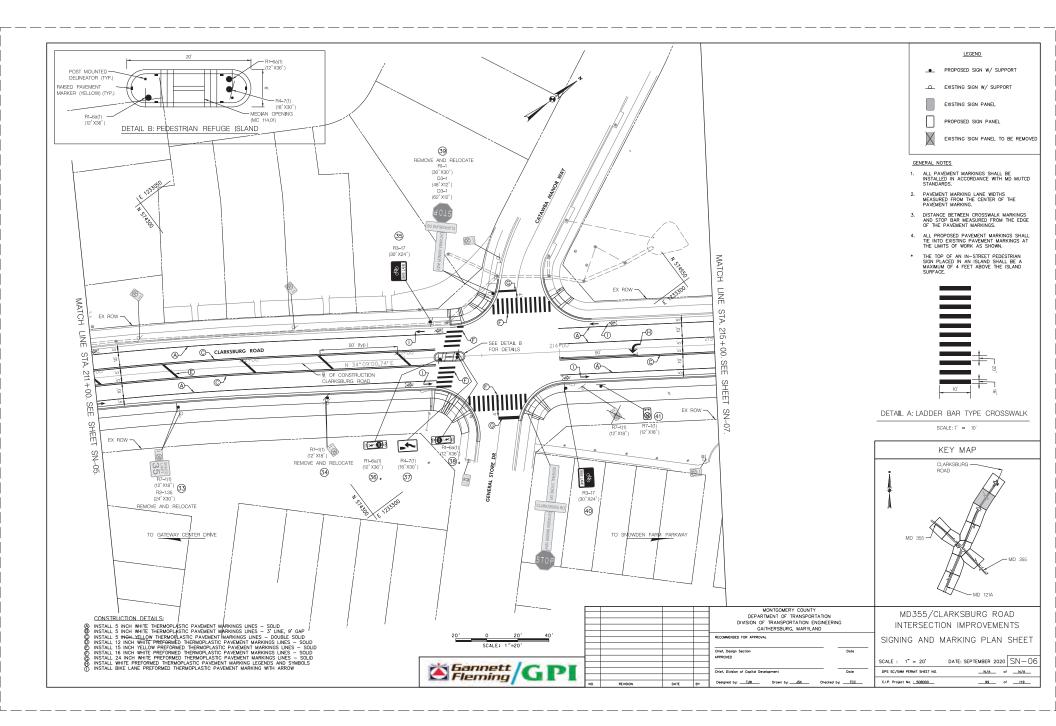


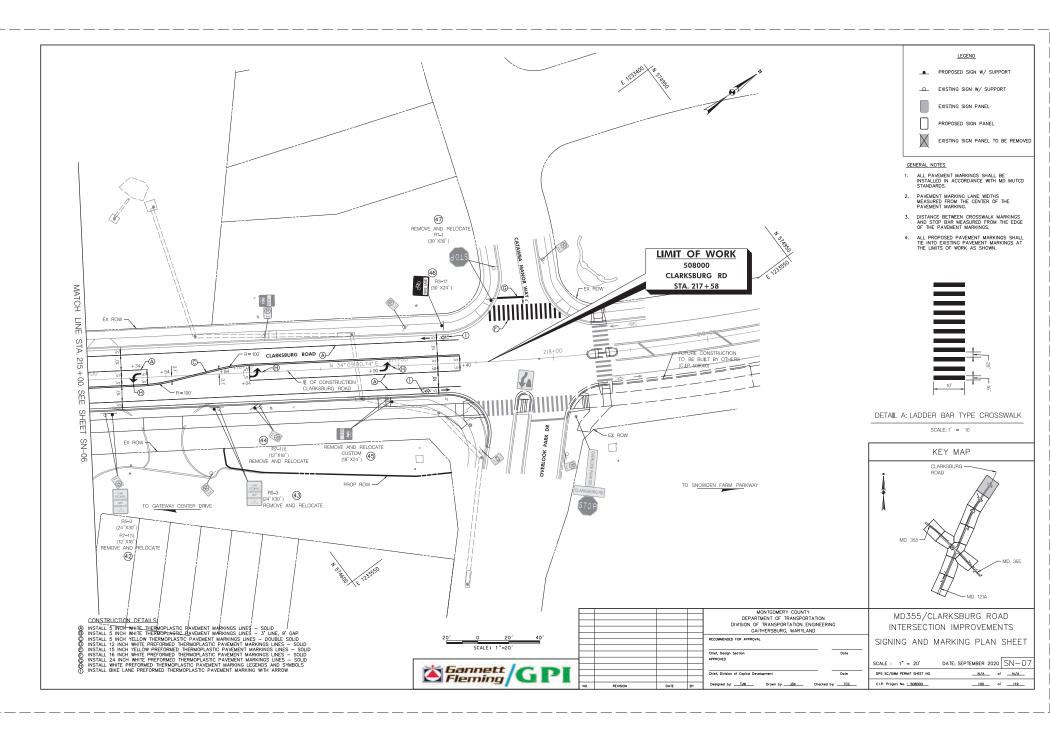


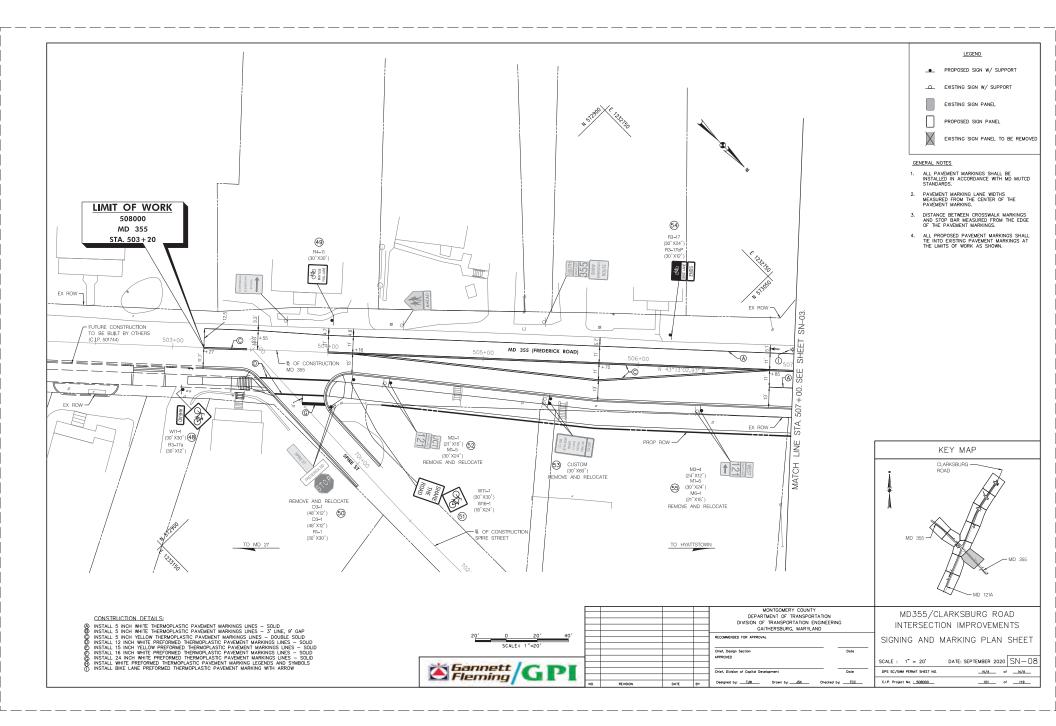


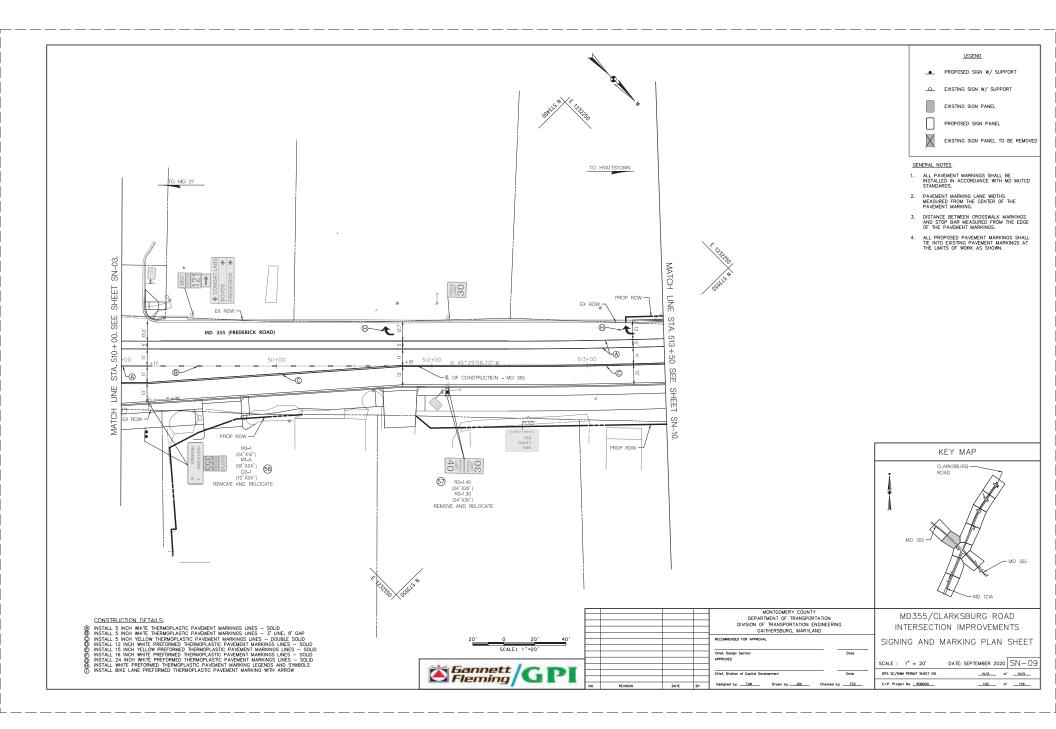


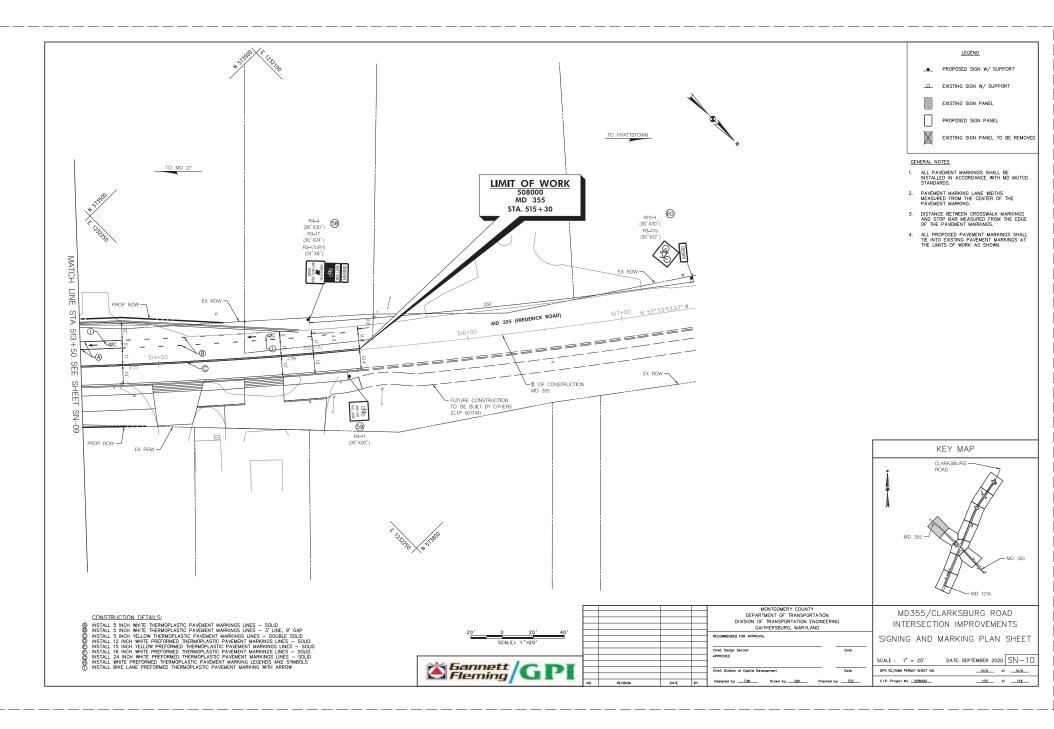












SHEET	SIGN NO.	REMARKS										DE NUMBERS					15 16 17 18 19					
NO. SN-OI	NO.	TEMATICS.	1	2	3	4	5	6	7	8	9	10	- 11	12	13	14	15	16	17	18	19	20
SN-UI		WILL L/201/201/ DZ 17- /201/201	8.75		-	-																-
		WII-I (30°X30°); R3-I7a (30°XI2°)		<u> </u>	-																	\vdash
	3	WII-I (30"X30"); WI6-I (18"X24")	9.25	1																		\vdash
	3	R3-17 (30'X24'); R3-17cP(I) (24'X8')	6.33	1	1			400														\vdash
		PAVEMENT MARKINGS/MISC.						400	801						10							-
SN-02																						\vdash
311 02	4	R7-I(I) ((2*XI8*)	1.5	<u> </u>																		\vdash
	<u> </u>	REMOVAL OF EXISTING SIGNS	1,13	<u> </u>			15.25															\vdash
		PAYEMENT MARKINGS/MISC.					10.25	1144	936					46.5								-
		TATEMENT WANTINGS WISC.						1144	330					40.5								\vdash
SN-03																						\vdash
511 05	40	RELOCATE D9-7 (24'X24'); CUSTOM ((2'X24')				6																\vdash
	5	R3-17 (30°X24°)	5	-	-	<u> </u>																\vdash
	6	R3-17 (30°X24°)	5	<u> </u>	-																	\vdash
	7	R4-II (30°X30°)	6.25	1	-																	-
	8	RELOCATE M3-3 (24'XI2'); MI-5 (30'X24'); M6-I (2I'XI5')	0123	1	i	9,19																\vdash
	9	RELOCATE M3-1 (24"X12"); M1-5 (30"X24"); M6-1 (21"X15")			<u> </u>	9,19																\vdash
	10	RELOCATE R3-7R (30°X30°)			-	6.25																-
	- 0	R3-17 (30°X24°)	5	1	-	0123																\vdash
	12	RELOCATE R7-I(I) (I2*XI8*)		1	1	1.5																-
		REMOVAL OF EXISTING SIGNS		<u> </u>	<u> </u>	1.5	12.5															-
		PAYEMENT MARKINGS/MISC.					1615	1153	763	258			142	77.5	50							\vdash
		TATEMENT MANNINGS/ MIDG.						1133	103	230			172	1113	30							-
SN-04																						_
311 04	13	RELOCATE R2-1.35 (24*X30*)				5																\vdash
	14	RELOCATE R7-I(I) (I2'XI8')			<u> </u>	1,5																-
	15	RELOCATE CUSTOM SIGN (36"X24")		<u> </u>	<u> </u>	6																-
	16	RELOCATE M2-I (2I'XI5'); MI-5 (30'X24'); R3-7R (30'X30')			-	13,44																\vdash
	17	R4-4 (36'X30')	7.5	1	1	10.11																_
	18	RELOCATE R7-I(I) (I2*XI8*)	1.3			1,5																\vdash
	19	RELOCATE R7-I(I) (I2*XI8*)		<u> </u>	-	1.5																\vdash
	- ''	PAVEMENT MARKINGS/MISC.				1.3		1058	783			148	18	93	30							\vdash
		TATEMENT MAININGS/ MISC.						1030	103			140	10	33	30							-
SN-05																						-
314 03	20	R3-17 (30"X24")	5																			-
	21	R3-17 (30°X24°)	5	-	-	1	<u> </u>				-	-	-						-			+
	22	RELOCATE R7-I(I) (I2'XI8')		<u> </u>	<u> </u>	1.5	-										-					+
	23	RELOCATE WII-3 (24°X24°)		1	-	4																\vdash
	24	RELOCATE R7-I(I) (I2'XI8')		<u> </u>	<u> </u>	1.5																\vdash
	25	R7-I(I) (I2*XI8*)	1.5	1	-	1.5																\vdash
	26	R7-I(I) (I2*XI8*)	1.5	- 	<u> </u>																	\vdash
	27	R3-17 (30°X24°)	5		-	1	-													 		\vdash
	28	RELOCATE RI-I (30°X30°); D3-I (48°X12°); D3-I (48°X12°)	5	+	-	14.25																\vdash
	29	RI-6a(I) (I2"X36")	3	+	<u> </u>	14.23																\vdash
	30	R4-7(I) (I8'X30")	3.75	-	-	-	-				-						-					+
	31	R3-17 (30°X24°)	5.75		-	-	-															\vdash
	32	R1-6a(I) ((2*X36*)				-	-										-					\vdash
	32		3	1	1	1	4.5										-					-
		REMOVAL OF EXISTING SIGNS		-		-	4.5	000	770			744	70				 			-		\vdash
		PAVEMENT MARKINGS/MISC. SUBTOTAL THIS SHEET						992 4747	732		19	344	32	62	50	2	6					

	CODE NUMBER DESCRIPTION & UNIT	
CODE NUMBERS	DESCRIPTION	UNIT
1	SHEET ALUMINUM SIGNS	SF
2	SOUARE PERFORATED TUBULAR STEEL SIGN POSTS	EA
3	SQUARE TUBULAR STEEL ANCHOR BASES	EA
4	RELOCATE EXISTING GROUND MOUNTED SIGNS	SF
5	REMOVE EXISTING GROUND MOUNTED SIGNS AND SUPPORTS	SF
6	5 INCH WHITE THERMOPLASTIC PAVEMENT MARKING LINES	LF
7	5 INCH YELLOW THERMOPLASTIC PAVEMENT MARKING LINES	LF
8	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES	LF
9	15 INCH YELLOW PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES	LF
10	16 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES	LF
II	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES	LF
12	WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS	SF
13	BIKE LANE PREFORMED THERMOPLASTIC PAVEMENT MARKING WITH ARROW	SF
14	POST MOUNTED DELINEATOR	EA
15	RAISED PAVEMENT MARKER	EA

a nennig	NO.	REVISION	DATE	84	Designed by:TJW Drawn by:JSK Checked by:Ti	cc	C.I.P. Project No. <u>: 508000</u>
Sannett GPI					Chief, Division of Capital Development Dat	ie [DPS SC/SWM PERMIT SHEET NO.
	1—			\vdash	APPROVED	- 1	SCALE : N.T.S.
					Chief, Design Section Dat	te	INDEX O
					RECOMMENDED FOR APPROVAL		SIGNING
					DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND		INTERSECTIO
	-				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION		MD355/CLA

 SCALE:
 N.T.S.
 DATE: SEPTEMBER 2020
 SN-11.1

 DPS 5C/59M PERMIT SHEET NO.
 N/A
 of
 N/A

 CLIP Project No.:
 1004
 of
 119

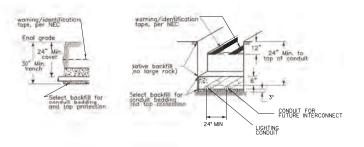
SHEET NO.	SIGN	DEMARKS									COL	DE NUMBERS	•								
	NO.	REMARKS	1	2	3	4	5	6	7	8	9	10	П	12	13	14	15	16	17	18	19
5N-06																		<u> </u>			
	33	RELOCATE R7-I(I) (I2*XI8*); R2-I.35 (24*X30*)		- 1	1	6.5															
	34	RELOCATE R7-I(I) (I2'XI8')		- 1	1	1.5												ــــــ			
	35	R3-17 (30°X24°)	5	- 1	- 1																
	36	RI-6a(I) (I2*X36*)	3	- 1	- 1																
	37	R4-7(I) (I8*X30*)	3.75	- 1	- 1																
	38	RI-6q(I) (I2"X36")	3	- 1	- 1																
	39	RELOCATE RI-I (30"X30"); D3-I (48"X12"); D3-I (62"X12")		- 1	- 1	16.91															
	40	R3-I7 (30°X24°)	5	- 1	- 1																
	41	R7-I(I) (I2"XI8")	1.5	- 1	- 1																
		REMOVAL OF EXISTING SIGNS					1.5														
		PAVEMENT MARKINGS/MISC.						748	1081		126	346	25	15.5	40	2	6				
N-07																					
	42	RELOCATE R5-3 (24'X30"); R7-I(I) ((2"XI8")		- 1	- 1	6.5															
	43	RELOCATE R5-3 (24'X30")		- 1	1	5													\Box		
	44	RELOCATE R7-I(I) (I2*XI8*)		- 1	1	1.5															
	45	RELOCATE CUSTOM SIGN (18*X24*)		1	1	3															
	46	R3-17 (30°X24°)	5	-	-																
	47	RELOCATE RI-I (30°X30°)		1		6.25													-		
		PAVEMENT MARKINGS/MISC.						649	481			143	17	46.5	20				-		
		TATEMENT MAINTON MISSI						0.13	101			115		1015				-	\vdash		
N-08																			\vdash		
JI 00	48	WII-I (30"X30"); R3-I7a (30"XI2")	8.75	1	1														\vdash		
	49	R4-II (30°X30°)	6.25	1	<u> </u>	_													\vdash		
	50		6.23	<u> </u>	i i	14.25													\vdash		
	51	RELOCATE D3-I (48"XI2"); D-3-I (48"XI2"); RI-I (30"X30")	9.25	_	-	14.25													\vdash		
	52	WII-I (30"X30"); WI6-I (18"X24")	9,25	1	<u> </u>	7.10													\vdash		
		RELOCATE M2-I (21'X15'); MI-5 (30'X24')			<u> </u>	7.19													\vdash		
	53	RELOCATE CUSTOM SIGN (30'X60')		2	2	12.5													\vdash		
	54	R3-17 (30*X24*); R3-17bP (30*X12*)	7.5	- 1	1														\vdash		
	55	RELOCATE M3-4 (24'XI2'); MI-5 (30'X24'); M6-I (2I'XI5')		1	1	9,19													\vdash		
		PAVEMENT MARKINGS/MISC.						395	1195	77			15		10				-		
																			\vdash		
N-09																					
	56	RELOCATE M3-1 (24"X12"); M1-5 (30"X24"); D2-1 (72"X24")		2	2	19													<u> </u>		
	57	RELOCATE R2-1,40 (24°X30°), R2-1,30 (24°X30°)		- 1	- 1	10															
		PAVEMENT MARKINGS/MISC.						768	701					31							
N-10																					
	58	R4-4 (36'X30'); R3-17 (30'X24'); R3-17cP(I) (24'X8')	13.83	- 1	- 1																
	59	R4-II (30"X30")	6.25	- 1	- 1																
	60	WII-I (30°X30°); R3-I7a (30°XI2°)	8.75	- 1	1																
		PAVEMENT MARKINGS/MISC.						139	360						20						
		SUBTOTAL THIS SHEET	86.83	30	30	119.29	1.5	2699	3818	77	126	489	57	93	90	2	6	-	-	-	-
																			\Box		
		PROJECT TOTAL	174.16	62	62	201.61	33.75	7446	7833	335	145	981	249	372	230	4	12	-	-	-	-
	_	PROJECT TOTAL (ROUNDED)	175	62	62	202	34	7446	7833	335	145	981	249	372	230	4	12	-	-	-	

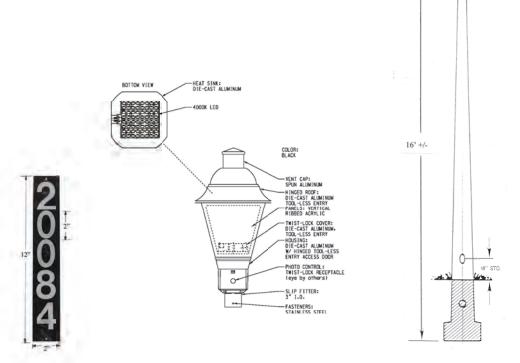
	CODE NUMBER DESCRIPTION & UNIT	
CODE NUMBERS	DESCRIPTION	UNIT
1	SHEET ALUMINUM SIGNS	SF
2	SOUARE PERFORATED TUBULAR STEEL SIGN POSTS	EA
3	SOUARE TUBULAR STEEL ANCHOR BASES	EA
4	RELOCATE EXISTING GROUND MOUNTED SIGNS	SF
5	REMOVE EXISTING GROUND MOUNTED SIGNS AND SUPPORTS	SF
6	5 INCH WHITE THERMOPLASTIC PAVEMENT MARKING LINES	LF
7	5 INCH YELLOW THERMOPLASTIC PAVEMENT MARKING LINES	LF
8	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES	LF
9	15 INCH YELLOW PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES	LF
10	16 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES	LF
II.	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES	LF
12	WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS	SF
13	BIKE LANE PREFORMED THERMOPLASTIC PAVEMENT MARKING WITH ARROW	SF
14	POST MOUNTED DELINEATOR	EA
15	RAISED PAVEMENT MARKER	EA

	NO.	REVISION	DATE	BY	Designed by: TJW Drawn by: JSK Checked by: TCC	С
Sannett GPI	-				Chief, Division of Capital Development Date	0
S Fannett / -						SC
	+			\vdash	APPROVED	
	_			-	Chief, Design Section Date	-
					RECOMMENDED FOR APPROVAL	
				1	GAITHERSBURG, MARYLAND	-
	-			+	DIVISION OF TRANSPORTATION ENGINEERING	
					DEPARTMENT OF TRANSPORTATION	
					MONTGOMERY COUNTY	- 1

GENERAL NOTES:

- ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF NATIONAL ELECTRICAL CODE AND THE REQUIREMENTS OF ALL LOCAL CODES AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION OVER THE WORK.
- 2. ALL UNDERGROUND UTILITIES ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL CONTACT 'MISS UTILITY' AT LEAST 48 HOURS PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE LICHTING STRUCTURE WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED.
- 3. ALL STREET LIGHT EQUIPMENT AND MATERIALS SHALL BE SUBMITTED TO MCDOT FOR APPROVAL PRIOR TO BEING INSTALLED ON THE PROJECT.
- 4. INSTALLATION OF ALL UNDERGROUND LIGHTING FACILITIES ARE ALSO SUBJECT TO POTOMAC EDISON INSPECTION AND WRITTEN APPROVAL BEFORE CONCEALMENT, FAILURE TO OBTAIN SUCH INSPECTION MILL RESULT IN THE UNCOVERING OF FACILITIES AT THE CONTRACTOR'S EXPENSE. CALL 301-629-7025 TWO WORKING DAYS IN ADVANCE TO ARRANGE INSPECTION.
- 5. ALL CONDUITS SHALL BE INSTALLED PRIOR TO SIDE PATH CONSTRUCTION.
- 6. RUN ONE WAY CONDUIT BETWEEN LIGHTING HANDHOLE AND THE POLE LOCATION.
- 7. MINIMUM TRENCH DIMENSIONS SHALL BE BASED ON PROVIDING ADEQUATE COVER PER NEC AND NESC CODES (DEPTH) AND ACCEPTABLE WORKING AREAS (WIDTH). CONDUIT IS TO HAVE TWO (2) FEET MINIMUM OF COVER OVER IT.
- 8. THE BOTTOM OF THE TRENCH SHALL BE RELATIVELY SMOOTH, UNDISTURBED EARTH, WELL-TAMPED EARTH, OR SAND, WHICH IS FREE OF ROCK, CINDERS OR SHARP OBJECTS.
- 9. ALL SWEEPBENDS SHALL BE A MINIMUM OF 36 INCHES RADIUS.
- 10. ALL JOINTS SHALL BE GLUED TOGETHER. CONDUIT SHALL BE CLEANED AND PLUGGED AT EACH END TO KEEP WATER AND DIRT OUT. 1/4 UNBROKEN NYLON OR POLYPROPYLENE PULL ROPE SHALL BE INSTALLED IN EACH CONDUIT DUCT.
- II. CONTRACTOR SHALL INSTALL MARKING TAPE ONE FOOT (I') ABOVE EACH CONDUIT RUN.
- 12. CONTRACTOR SHALL BACKFILL AROUND ALL CONDUITS WITH SIX (6) INCHES OF STONE DUST. THE REMAINDER OF THE TRENCH SHALL BE BACKFILLED WITH NATIVE SOIL AND NOT CONTAIN LARGE ROCKS (GREATER THAN 4 INCH) OR ROCKS WITH SHARP EDGES.
- 13. BACKFILL SHALL BE COMPACTED IN SIX INCH LAYERS BY HAND OR USING WITH PNEUMATIC OR VIBRATING TAMPING EQUIPMENT TO LESSEN THE EFFECTS OF SETTING.
- 14. ALL LIGHTING HANDHOLES SHALL BE PICKED UP FROM POTOMAC EDISON, CALL 301-829-7025 TWO WORKING DAYS IN ADVANCE TO ARRANGE PICK UP.
- 15. ALL LIGHTING HANDHOLES SHALL BE INSTALLED WITH THE LONG DIMENSION PARALLEL TO THE ROADWAY/SIDE PATH.
- 16. ALL LIGHTING HANDHOLES SHALL INCLUDE A GROUND ROD.
- 17. TOP OF LIGHTING HANDHOLE SHALL BE APPROXIMATELY ONE INCH (1") ABOVE FINAL GRADE.
- 18. CONTRACTOR SHALL PROVIDE PULL STRING FROM MD355 SIGNAL CONTROLLER TO OVERLOOK PARK DRIVE FOR FUTURE INSTALLATION OF INTERCONNECT CABLE.
- 19. PROPOSED TRAFFIC HANDBOX FOR FUTURE INTERCONNECT USE SHALL BE LOCATED A MAXIMUM 200FT APART.





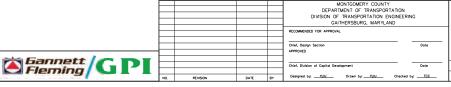
STREETLIGHT POST NUMBERING TAG

SCALE: N.T.S.

COLONIALPOST-TOP LED LUMINAIRE SCALE: N.T.S.

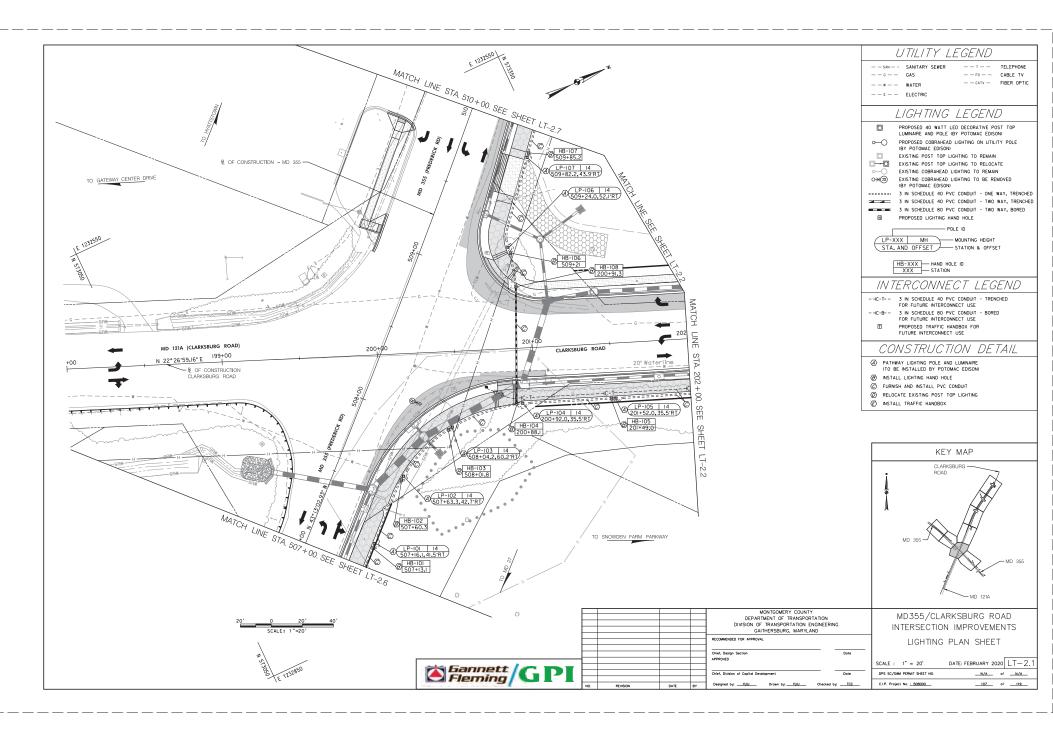
DIRECT BURIAL FIBERGLASS POLE SCALE: N.T.S.

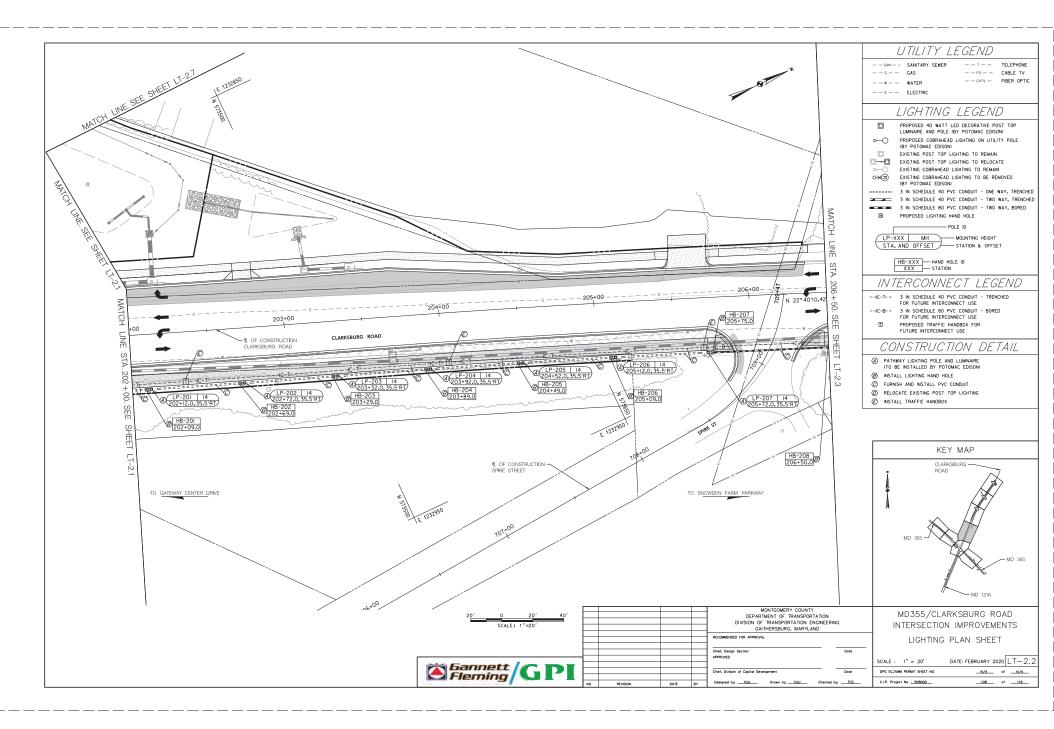
TRENCHED CONDUIT BEDDING AND TOP PROTECTION DETAIL SCALE: N.T.S.

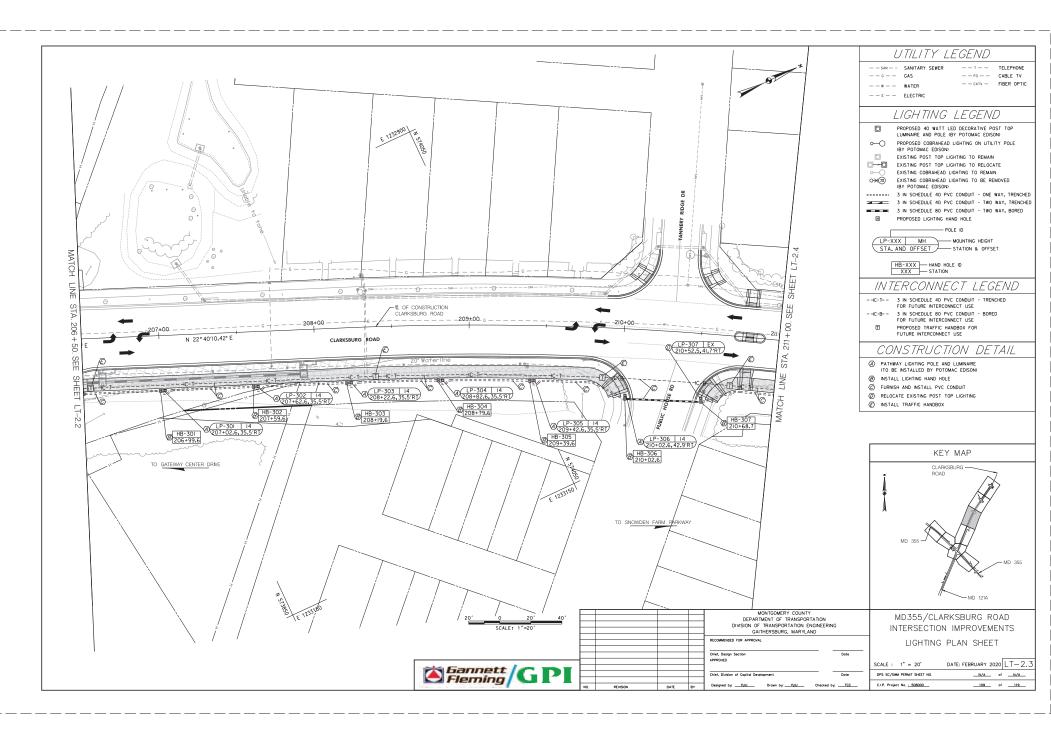


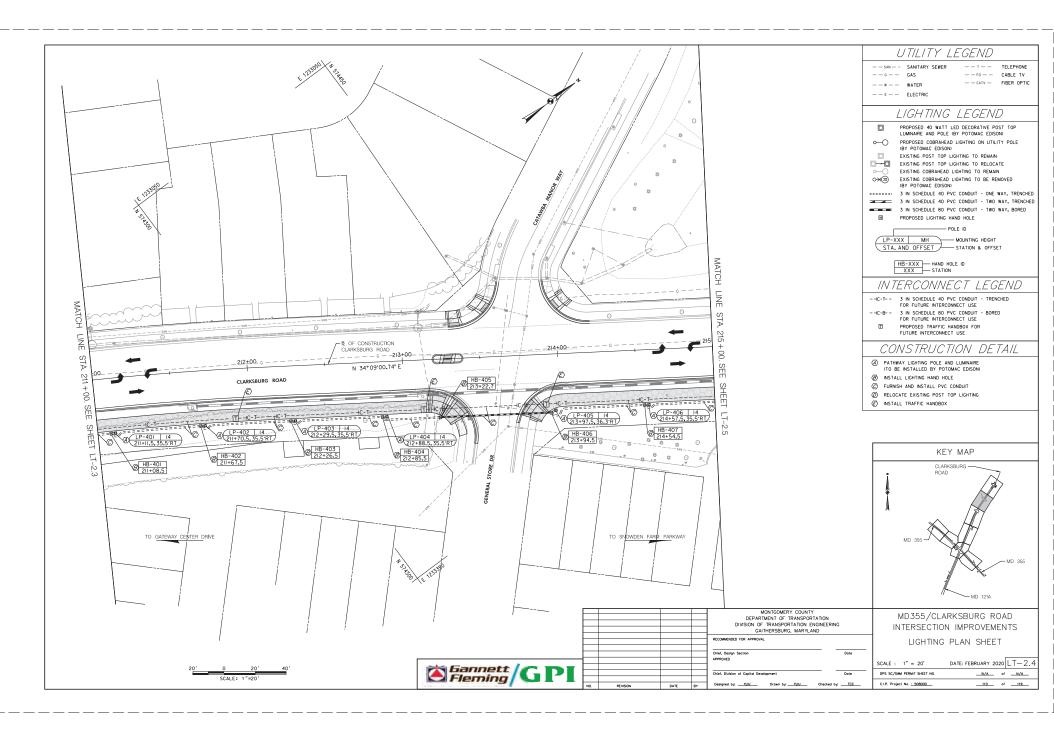
MD355/CLARKSBURG ROAD INTERSECTION IMPROVEMENTS

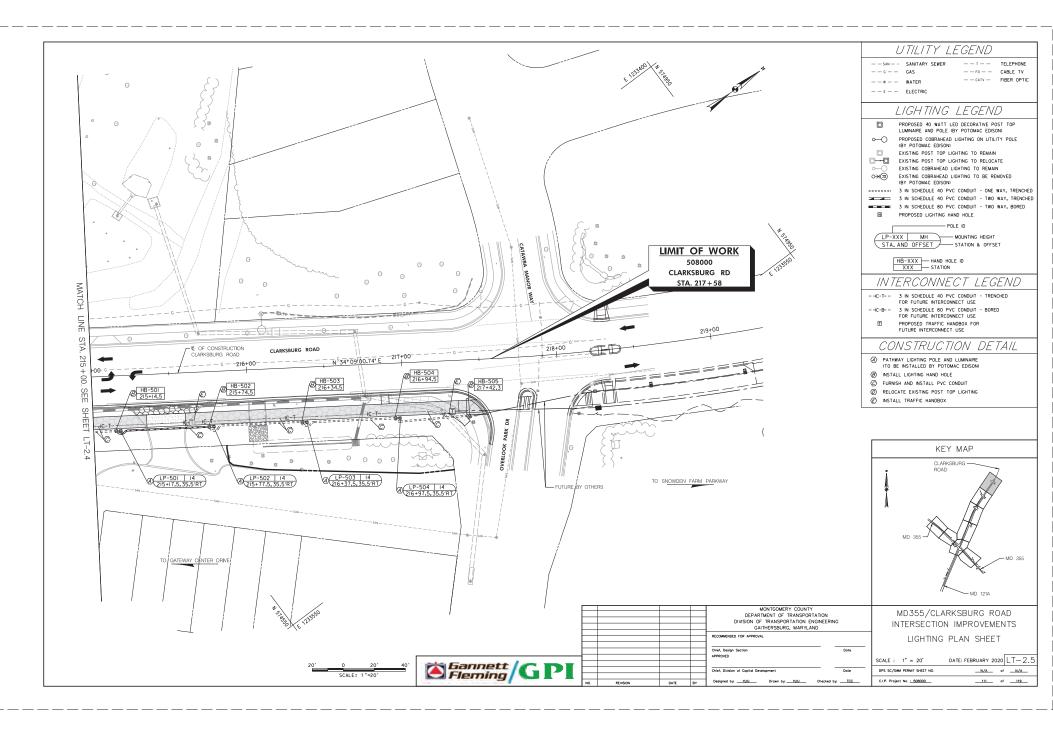
LIGHTING GENERAL NOTES
AND DETAILS

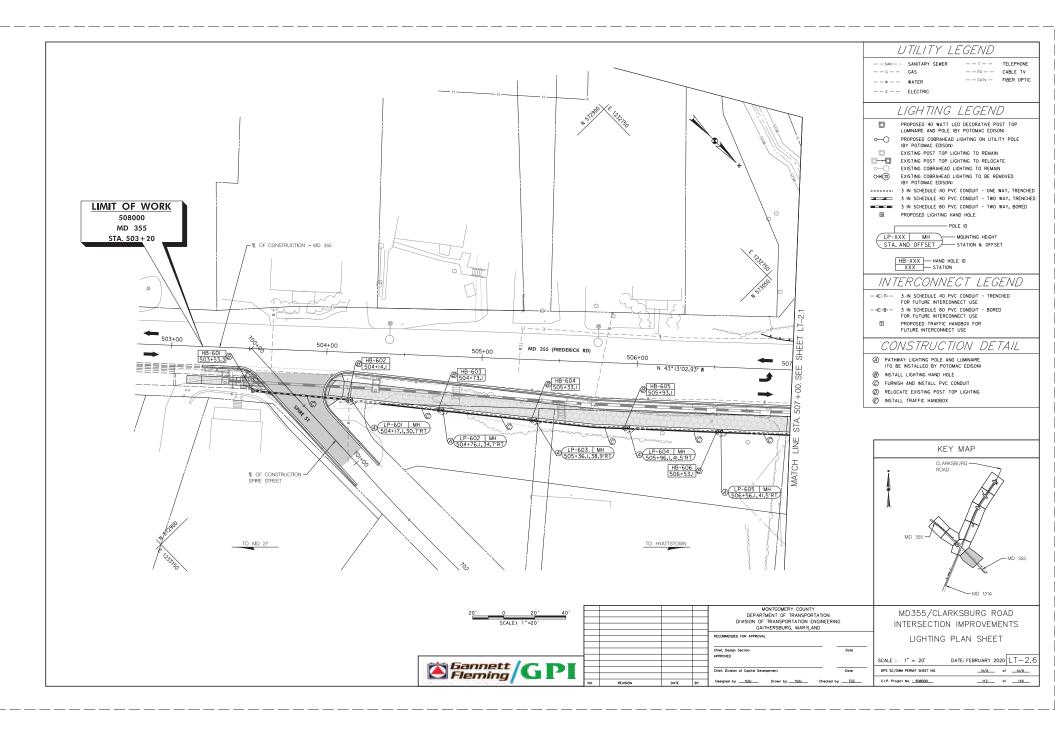


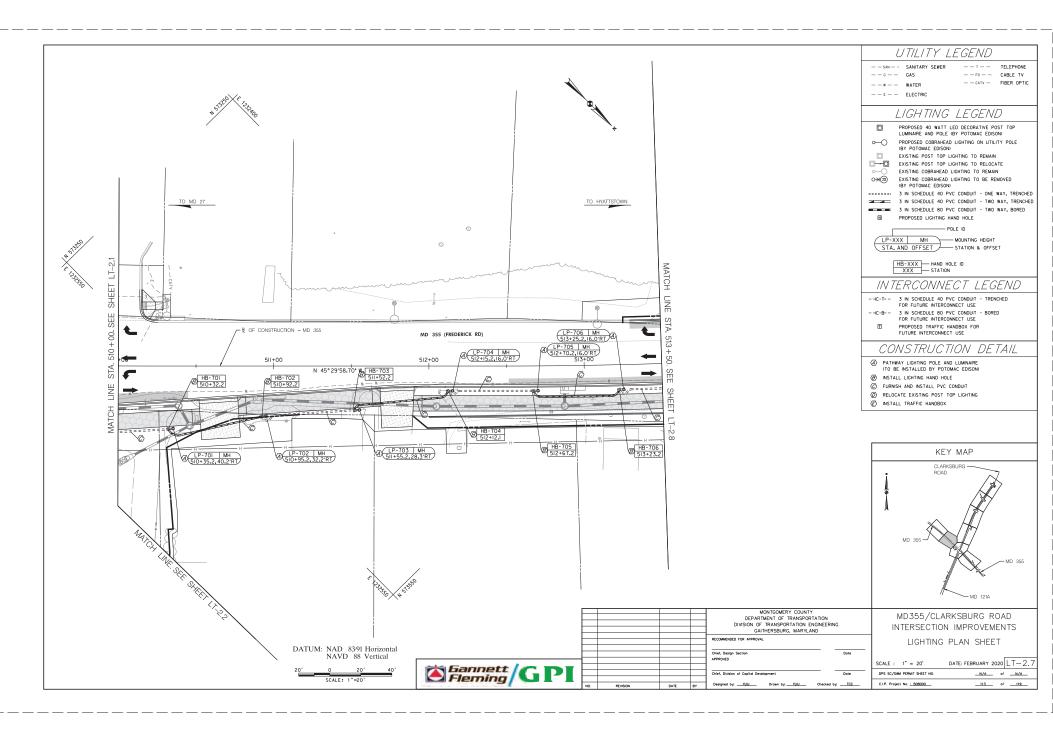


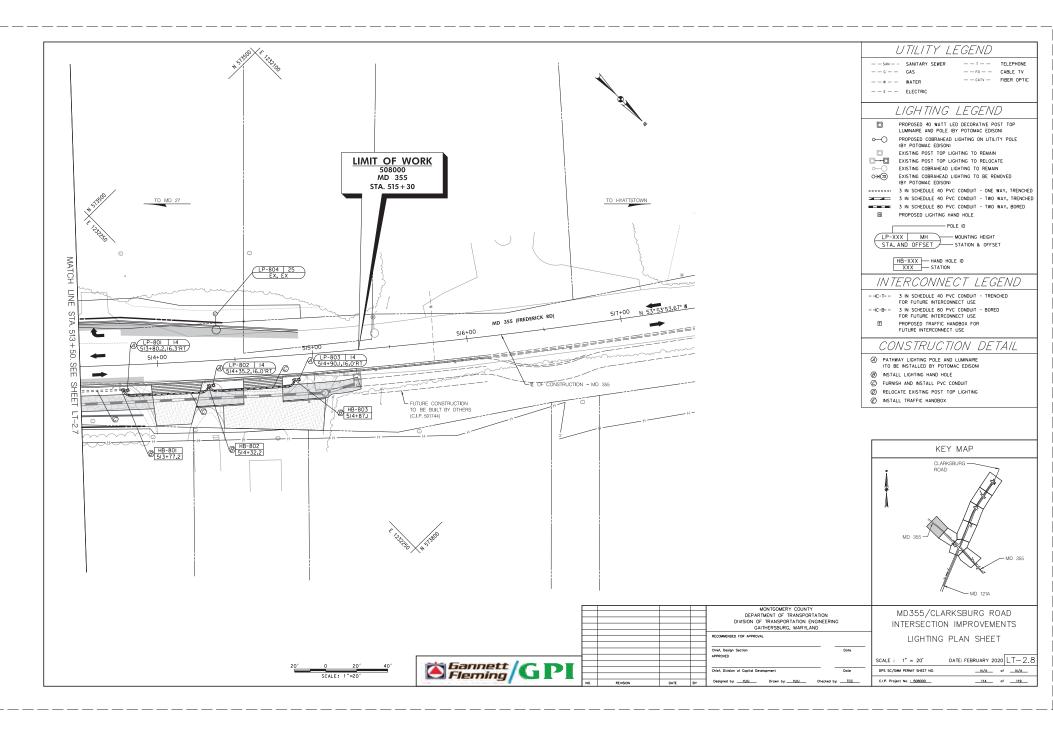








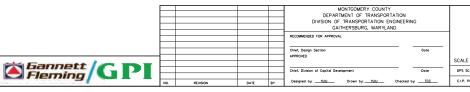




				POLE SCHEDULE			
POLE ID	DRAWING NUMBER	HEIGHT AND TYPE OF POLE	MAST ARM LENGTH	SETBACK FROM EDGE OF SHOULDER, FACE OF CURB OR FACE OF W-BEAM	LUMINAIRE/ WATTAGE	TYPE OF BASE	POLE LOCATION
LP-101	LT-2.1	16' ROUND FIBERGLASS POLE	-	17.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	507 + 16.1, 41.5 RT
LP-102	LT-2.1	16' ROUND FIBERGLASS POLE	-	17.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	507 + 63.3, 42.7 RT
LP-103	LT-2.1	16' ROUND FIBERGLASS POLE	-	17.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	508 + 04.2, 60.2 RT
LP-104	LT-2.1	16' ROUND FIBERGLASS POLE	-	15.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	200 + 92.0, 35.5 RT
LP-105	LT-2.1	16' ROUND FIBERGLASS POLE	-	15.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	201 + 52.0, 35.5 RT
LP-106	LT-2.1	16' ROUND FIBERGLASS POLE	-	17.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	509 + 24.0, 52.1 RT
LP-107	LT-2.1	16' ROUND FIBERGLASS POLE	-	17.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	509 + 82.2, 43.9 RT
LP-201	LT-2.2	16' ROUND FIBERGLASS POLE	-	15.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	202+12.0, 35.5 RT
LP-202	LT-2.2	16' ROUND FIBERGLASS POLE	-	15.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	202 + 72.0, 35.5 RT
LP-203	LT-2.2	16' ROUND FIBERGLASS POLE	-	15.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	203+32.0, 35.5 RT
LP-204	LT-2.2	16' ROUND FIBERGLASS POLE	-	15.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	203+92.0, 35.5°RT
LP-205	LT-2.2	16' ROUND FIBERGLASS POLE	-	15.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	204+52.0, 35.5 RT
LP-206	LT-2.2	16' ROUND FIBERGLASS POLE	-	15.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	205 + 12.0, 35.5 RT
LP-207	LT-2.2	16' ROUND FIBERGLASS POLE	-	14.9' FACE OF CURB	40 WATT LED	DIRECT BURIAL	205 + 72.0, 35.5 RT
LP-301	LT-2.3	16' ROUND FIBERGLASS POLE	-	15.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	207+02.6, 35.5 RT
LP-302	LT-2.3	16' ROUND FIBERGLASS POLE	-	15.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	207 + 62.6, 35.5 RT
LP-303	LT=2.3	16' ROUND FIBERGLASS POLE	-	15.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	208 + 22.6, 35.5 RT
LP-304	LT-2.3	16' ROUND FIBERGLASS POLE	-	15.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	208 + 82.6, 35.5 RT
LP-305	LT-2.3	16' ROUND FIBERGLASS POLE	-	15.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	209 + 42.6, 35.5 RT
LP-306	LT-2.3	16' ROUND FIBERGLASS POLE	-	3.0' FACE OF CURB	40 WATT LED	DIRECT BURIAL	210 + 02.6, 42.9 RT
LP-307	LT-2.3	EX TO RELOCATE	-	3.0' FACE OF CURB	-	-	210 + 52.5, 41.7 RT
LP-401	LT-2.4	16' ROUND FIBERGLASS POLE	-	15.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	211 + 11.5, 35.5 RT
LP-402	LT-2.4	16' ROUND FIBERGLASS POLE	-	15.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	211 + 70.5, 35.5' RT
LP-403	LT-2.4	16' ROUND FIBERGLASS POLE	-	15.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	212 + 29.5, 35.5 RT
LP-404	LT-2.4	16' ROUND FIBERGLASS POLE	-	15.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	212 + 88.5, 35.5 RT
LP-405	LT-2.4	16' ROUND FIBERGLASS POLE	-	15.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	213 + 97.5, 36.3 RT
LP-406	LT-2.4	16' ROUND FIBERGLASS POLE	-	15.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	214 + 57.5, 35.5 RT
LP-501	LT=2.5	16' ROUND FIBERGLASS POLE	-	15.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	215 + 17.5, 35.5' RT
LP-502	LT-2.5	16' ROUND FIBERGLASS POLE	-	15.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	215 + 77.5, 35.5 RT
LP-503	LT-2.5	16' ROUND FIBERGLASS POLE	-	15.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	216 + 37.5, 35.5 RT
LP-504	LT-2.5	16' ROUND FIBERGLASS POLE	-	15.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	216 + 97.5, 35.5 RT
LP-601	LT-2.6	16' ROUND FIBERGLASS POLE	-	17.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	504 + 17.1, 30.7 RT
LP-602	LT-2.6	16' ROUND FIBERGLASS POLE	-	17.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	504 + 76.1, 34.7 RT
LP-603	LT-2.6	16' ROUND FIBERGLASS POLE	-	17.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	505 + 36.1, 38.9 RT
LP-604	LT-2.6	16' ROUND FIBERGLASS POLE	-	17.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	505 + 96.1, 41.5' RT
LP-605	LT-2.6	16' ROUND FIBERGLASS POLE	-	17.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	506 + 56.1, 41.5' RT
LP-701	LT-2.7	16' ROUND FIBERGLASS POLE	-	17.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	510 + 35.2, 40.2 RT
LP-702	LT-2.7	16' ROUND FIBERGLASS POLE	-	13.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	510 + 95.2, 32.2 RT
LP-703	LT-2.7	16' ROUND FIBERGLASS POLE	-	13.5' FACE OF CURB	40 WATT LED	DIRECT BURIAL	511 + 55.2, 28.3' RT
LP-704	LT-2.7	16' ROUND FIBERGLASS POLE	-	3.0' FACE OF CURB	40 WATT LED	DIRECT BURIAL	512 + 15.2, 16.0° RT
LP-705	LT-2.7	16' ROUND FIBERGLASS POLE	-	3.0' FACE OF CURB	40 WATT LED	DIRECT BURIAL	512 + 70.2, 16.0' RT
LP-706	LT-2.7	16' ROUND FIBERGLASS POLE	-	3.0' FACE OF CURB	40 WATT LED	DIRECT BURIAL	513 + 25.2, 16.0' RT
LP-801	LT-2.8	16' ROUND FIBERGLASS POLE	-	3.0' FACE OF CURB	40 WATT LED	DIRECT BURIAL	513 + 80.2, 16.3' RT
LP-802	LT-2.8	16' ROUND FIBERGLASS POLE	-	3.0' FACE OF CURB	40 WATT LED	DIRECT BURIAL	514 + 35.2, 16.0' RT
LP-803	LT-2.8	16' ROUND FIBERGLASS POLE	-	3.0' FACE OF CURB	40 WATT LED	DIRECT BURIAL	514 + 90.1, 16.0° RT
LP-804	LT-2.8	EX UTILITY POLE	10 FT	EX	145 WATT LED	EX	EX
				R LINE OF PROPOSED LIGHT POLE			

ALL DIMENSIONS SHOWN ARE MEASURED FROM OBJECT TO CENTER LINE OF PROPOSED LIGHT POLE.

LIGHTING		HOLE SCHEDULE
HAND HOLE ID	DRAWING NUMBER	STATION
HB-101	LT-2.1	507 + 13.1, 41.5' RT
HB-102	LT-2.1	507 + 60.3, 42.2° RT
HB-103	LT-2.1	508 + 01.8, 58.4 RT
HB-104	LT-2.1	200 + 88.1, 35.5 RT
HB-105	LT-2,1	201 + 49.0, 35.5 RT
HB-106	LT-2.1	509 + 21.0, 55.0 RT
HB-107	LT-2.1	509 + 85.2, 43.9 RT
HB-108	LT-2.1	200 + 91.3, 39.8 LT
HB-201	LT-2.2	202+09.0, 35.5 RT
HB-202	LT-2.2	202 + 69.0, 35.5 RT
HB-203	LT-2.2	203 + 29.0, 35.5' RT
HB-204	LT-2.2	203 + 89.0, 35.5 RT
HB-205	LT-2.2	204 + 49.0. 35.5 RT
HB-206	LT-2.2	205 + 09.0. 35.5 BT
HB-207	LT-2.2	205 + 75.0. 35.5 RT
HB-208	LT-2.2	206+50.0, 35.5° RT
HB-301	LT-2.3	206+99.6, 35.5 RT
HB-302	LT-2.3	207 + 59.6, 35.5 RT
HB-303	LT-2.3	208 + 19.6, 35.5 RT
HB-304	LT-2.3	208 + 79.6. 35.5 RT
HB-305	LT-2.3	209 + 39 6, 35 5' BT
HB-306	LT-2.3	210 + 02.6, 42.9 RT
HB-307	LT-2.3	210+52.6, 44.0 RT
HB-401	LT-2.4	211 + 08.5, 35.5 RT
HB-402	LT-2.4	211+67.5, 35.5 RT
HB-403	LT-2.4	212+26.5, 35.5 RT
HB-404	LT-2.4	212+26.5, 35.5 RT
HB-405	LT-2.4	
HB-406	LT-2.4	213 + 22.7, 37.5 'RT
		213 + 94.5, 37.8 RT
HB-407	LT-2.4 LT-2.5	214 + 54.5, 35.5 RT
110 001		215 + 14.5, 35.5' RT
HB-502	LT-2.5	215 + 74.5, 35.5 RT
HB-503	LT-2.5	216+34.5, 35.5°RT
HB-504	LT-2.5	216+94.5, 35.5 RT
HB-505	LT-2.5	217 + 42.3, 36.6' RT
HB-601	LT-2.6	503 + 53.3, 27.4 RT
HB-602	LT-2.6	504 + 14.1, 30.4 RT
HB-603	LT-2.6	504 + 73.1, 34.5 RT
HB-604	LT-2.6	505 + 33.1, 38.7 RT
HB-605	LT-2.6	505 + 93.1, 41.5 RT
HB-606	LT-2.6	506 + 53.1, 41.5 RT
HB-701	LT-2.7	510 + 32.2, 40.4 RT
HB-702	LT-2.7	510+92.2, 32.4 RT
HB-703	LT-2.7	511 + 55.2, 28.5 RT
HB-704	LT-2.7	512 + 12.2, 16.0 RT
HB-705	LT-2.7	512 + 67.2, 16.0' RT
HB-706	LT-2.7	513 + 22.2, 16.0 RT
HB-801	LT-2.8	513 + 77.2, 16.3 RT
110 001		
HB-802	LT-2.8	514 + 32.2, 16.0 RT



SCALE : 1" = 20'	DATE: FEBRUARY 2020 LT-03
DPS SC/SWM PERMIT SHEET NO.	N/A ofN/A
C.I.P. Project No. : 508000	115 of119

									GR.	ADI	NG	TΑ	BLE									
\A					CLA	SS 1	AVATION					1	CLASS 2		EROSION 8	SEDIMENT				NKMENT		
ROADWAY	STAT FROM	IONS TO	CUT FROM XSECTS	TOP: CUT		ROO	TMAT FILL	TOTAL	SUITABLE FOR EMBANK	SHRINK/SWELL FACTOR (%)	AVAIL. FOR EMBANK.	TOTAL FROM XSECS	LOSS DUE TO HANDUNG	AVAIL. FOR EMBANK	OFIGINAL EXCAVATION	CLEAN-OUT EXCAVATION	F	TOT, REO, BEFORE	CAPPING	BORROW	SELECT FROM XSECT	BORROW
l L≌	0	0	3	<u> </u>	(5)	©	0	8	9	00	III)	®	(3)	(4)	(5)	(6)	(T)	TOT, RED, BETORE DEPORT EASTERS	(9)	TOT, RED, AFTICR DISNIFFE AT EXA	2	(2)
واا	192 + 62 193 + 50	193 + 50 198 + 00	0 16					0 16									0	0				
ROAD	198 + 00	202+00	736					736									183	183				
22	202+00 206+50	206 + 50 211 + 00	503 329					503 329									419 112	419 112				-
l l gg	211+00	215+00	101					101									96	96				
CLARKSBURG	215+00 POI1		37 686					37 686									31 202	31 202				-
°	POI1 SWN	MEDIA)	472					472									0	0				
	MB 2-1	2-1 (MEDIA)	74 75					74 75									12	12				—
	503+00	507+00	703					703									20	20				
355	507 + 00	510 + 00	90					90									890	890				
₽	513 + 50	513 + 50 515 + 30	342 239					342 239									100	100				
l	STREAM	OUTFALL	83					83								150	23	23				
ESC		1-1													169	5						
<u> </u>	TGO	S 1-1													131	5						
																						
																						
																						
																						
																						—
															-							—
									_									_				
									_	_					_			_				
									_	_					_			_				
						-			_	_					_			_				
			\vdash			-	 	-		_		-			-	 						
		TOTAL	4486		l	L	I	4486							300	160	2089	2089				Ц
l																			\vdash	1		+-

SUMMARY OF EARTHWORK

EX	CAVATION		
(A)	TOTAL CLASS EXCAVATION (COL. 8)	4486	c.
B	TOTAL CLASS 2 EXCAVATION (COL, I2)		c.
O	TOTAL EXCAVATION AVAILABLE FOR EMBANKMENT (COL. + COL. 4)		C.
0	TOTAL EROSION & SEDIMENT CONTROL EXCAVATION (COL. 15 + COL. 16)	460	C.'
FIV	IBANKMENT		
Ð	TOTAL COMMON BORROW REQUIRED (COL. 18) (COLS. 17 + 5 + 7)	2089	C.
Ø	TOTAL CAPPING BORROW REQUIRED (COL. 20)		C.
©	TOTAL SELECT BORROW REQUIRED (COL. 22)		C.
Θ	WASTE		C.
0	COMMON BORROW REQUIRED	2089	C.
0	BORROW DENSIFIED (25%)	523	C.
®	TOTAL COMMON BORROW REQUIRED	2612	c.
PR	OPOSAL QUANTITIES		
	CLASS EXCAVATION	4500	C.
	CLASS I-A EXCAVATION	50	C.
	CLASS 2 EXCAVATION		C.
	COMMON BORROW	2620	C.
	CAPPING BORROW		C.
	SELECT BORROW	50	C.

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
CATHERSBURG, MARYLAND

RECOMMODED FOR APPROVAL

ONEL Design Section
APPROVAL

ONEL Division of Copied Development
Dete

MD355/CLARKSBURG ROAD INTERSECTION IMPROVEMENTS GRADING TABLE AND SUMMARY OF EARTHWORK

