GENERAL NOTES (THESE NOTES PERTAIN TO ALL CIVIL DRAWINGS)

- EXISTING INFORMATION AND CONDITIONS NOT GUARANTEED; VERIFY AND TEST PIT EXISTING UTILITIES: THE CORRECTNESS AND COMPLETENESS OF THE INFORMATION SHOWING EXISTING CONDITIONS IS NOT GUARANTEED. BEFORE BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL PERFORM THE FOLLOWING TASKS:
- (a) NOTIFY MISS UTILITY AT 1-800-257-7777, AND MAKE SURE THEY COMPLETE THE MARKING OF UTILITIES WITHIN THE LIMITS OF CONSTRUCTION AT LEAST 48 HOURS PRIOR TO INSTALLING SEDIMENT CONTROL MEASURES. MAINTAIN ALL MARKINGS THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL ALSO INCLUDE IN HIS BID PRICE MARKING OF ON-SITE UTILITIES THAT MIGHT NOT BE MARKED BY MISS UTILITY; THE CONTRACTOR SHALL EITHER MARK THESE ON-SITE UTILITIES HIMSELF

OR BY SUBCONTRACTING WITH A PRIVATE ON-SITE UTILITY LOCATION COMPANY. (b) VERIFY THE GENERAL ACCURACY OF THE EXISTING CONDITIONS SHOWN ON THE SITE DRAWINGS BY VISUAL INSPECTION OF THE SURFACE OF THE SITE AND ALL EXISTING STRUCTURES. PAVING AND UTILITY APPURTENANCES VISIBLE THEREON: (c) WITH REGARD TO THE STRUCTURES & APPURTENANCES OBSERVED AS REQUIRED

- PER ITEM (B) ABOVE, DETERMINE THE TYPE, SIZE, LOCATION AND ELEVATION OF ALL THOSE EXISTING UTILITIES (INCLUDING BUT NOT LIMITED TO ALL STORM DRAINS, SANITARY LINES, WATER LINES, GAS LINES, STEAM LINES, ELECTRIC LINES, TELEPHONE LINES, AND COMMUNICATION DUCTS, AND ALL MANHOLES, INLETS, CLEAN-OUTS, VALVES, HANDHOLES, ETC. RELATED THERETO) WITHIN THE LIMITS OF CONSTRUCTION IN ORDER TO: (I) AVOID DAMAGING OR DISRUPTING SERVICE, AND (II) TO COORDINATE AND FACILITATE CONSTRUCTION OF PROPOSED UTILITIES AND OTHER IMPROVEMENTS. IN ADDITION TO THE CONTRACTOR'S VISUAL OBSERVATION AND THE UTILITY MARKING (AS REQUIRED ABOVE), THE CONTRACTOR SHALL SCHEDULE AND COMPLETE TEST PITTING OF ALL EXISTING UTILITIES (FOR THE PURPOSES SET FORTH ABOVE) AND SHALL DO SO IN A TIMELY MANNER IN ORDER TO ALLOW TIME FOR ANALYSIS AND REDESIGN BY SITE RESOURCES AND/OR OTHER CONSULTANTS, WITHOUT DELAYING THE PROJECT SCHEDULE.
- (d) IMMEDIATELY REPORT TO SITE RESOURCES, INC. THE RESULTS OF STEPS (A), (B) AND (C) WHICH MIGHT INDICATE ANY DISCREPANCY BETWEEN ACTUAL CONDITIONS 14. ABBREVIATIONS: AND THOSE SHOWN ON THE PLAN, AND ANY POTENTIAL CONFLICTS BETWEEN PROPOSED IMPROVEMENTS AND EXISTING CONDITION.

TEST PITTING DEFINED: FOR THE PURPOSES OF THIS CONTRACT, EXCAVATION OF UTILITY TRENCHES DOES NOT CONSTITUTE TEST PITTING. TEST PITTING IS A SEPARATE OPERATION COMPLETED AT LEAST SEVEN DAYS BEFORE UTILITY INSTALLATION IS SCHEDULED TO BEGIN. TEST PITTING MEANS EXCAVATION TO EXPOSE EXISTING UTILITIES IN TWO SITUATIONS: (I) WHERE PROPOSED IMPROVEMENTS CROSS EXISTING UTILITIES (PIPES, LINES, STRUCTURES, APPURTENANCES) AND; (II) WHERE PROPOSED UTILITIES ARE DESIGNED TO CONNECT TO EXISTING UTILITIES. TEST PITTING INCLUDES RECORDING THE TYPE, SIZE, LOCATION AND ELEVATION OF THE EXPOSED UTILITIES, AND FAXING AND MAILING THE RECORD TO SITE RESOURCES, INC. AND THE OWNER. THE RECORD MAY BE A LEGIBLE HAND-WRITTEN FIELD SKETCH.

- EXISTING AND PROPOSED GAS LINES, ELECTRIC LINES, TELEPHONE LINES. COMMUNICATION LINES AND OTHER UTILITIES: EXISTING AND PROPOSED GAS LINES, STEAM LINES, ELECTRIC LINES, TELEPHONE LINES, COMMUNICATION DUCTS AND OTHER SUCH UTILITIES ARE NOT PART OF THE SCOPE OF WORK SHOWN ON THESE SITE PLANS AND SITE RESOURCES, INC. HAS NO RESPONSIBILITY FOR DESIGN, SPECIFICATION OR INSTALLATION OF SAID UTILITIES. TO THE EXTENT THAT SOME OR ALL OF SUCH UTILITIES (WHETHER EXISTING OR PROPOSED) APPEAR ON THE SITE DRAWINGS, THE CORRECTNESS AND COMPLETENESS OF THE INFORMATION SHOWING THESE UTILITIES IS NOT GUARANTEED.
- 3. UTILITIES TO REMAIN OPERATIONAL; ADJUSTMENT FOR FINAL GRADE: ALL EXISTING UTILITIES SHALL BE RETAINED UNLESS MARKED OTHERWISE. EXISTING UTILITIES NOT TO BE REMOVED ARE TO REMAIN OPERATIONAL AT ALL TIMES. EXISTING UTILITIES TO BE REPLACED OR RELOCATED SHALL REMAIN IN SERVICE UNTIL REPLACED OR RELOCATED UTILITIES ARE OPERATIONAL. ALL EXISTING UTILITY APPURTENANCES SHALL BE ADJUSTED FOR FINAL GRADE.
- OR DETAILED ON THE DRAWINGS, ALL CONSTRUCTION SHALL FOLLOW THE LATEST ST. MARY'S COUNTY STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AS AMENDED TO DATE.
- SEDIMENT CONTROL: THE CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL UTILITIES TO AVOID CONSTRUCTION PROBLEMS/CONFLICTS WITH SEDIMENT AND EROSION CONTROL MEASURES. ANY DISTURBANCE TO SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REPAIRED AT THE END OF EACH WORKING DAY. CONTRACTOR SHALL, WITHOUT EXTRA COST TO THE PROJECT, REPAIR AND MAINTAIN EXISTING SEDIMENT CONTROL DEVICES UNTIL ALL AREAS WITHIN LIMITS OF CONSTRUCTION ARE STABILIZED. WITH THE APPROVAL OF SEDIMENT CONTROL INSPECTOR, ALL SEDIMENT CONTROL DEVICES SHALL BE REMOVED AND AREAS RESTORED AND STABILIZED. ALL SEDIMENT CONTROL MEASURES REFERRED TO ON THESE PLANS SHALL BE IN ACCORDANCE WITH THE PUBLICATION ENTITLED 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- DISTURBED AREAS: ALL AREAS DISTURBED BY THE CONTRACTOR DURING OR PRIOR TO CONSTRUCTION, NOT DESIGNATED TO RECEIVE PAVING, MULCH OR SOLID SOD SHALL BE FINE GRADED, SEEDED AND MULCHED IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES AND SPECIFICATIONS SHOWN ON THE SEDIMENT CONTROL DRAWINGS.
- REPAIR AND REPLACEMENT OF DAMAGE CAUSED BY CONTRACTOR AND SUBCONTRACTORS: IN THE EVENT THAT THE CONTRACTOR OR ANY OF HIS SUBCONTRACTORS DAMAGE ANY EXISTING CURB, GUTTER, PAVING, UTILITIES, SIDEWALKS, TREES, SHRUBS, LAWNS, OR ANY OTHER EXISTING CONDITIONS (NOT INDICATED TO BE DEMOLISHED), OR ANY NEWLY INSTALLED PROPOSED IMPROVEMENT, THE GENERAL CONTRACTOR SHALL REPAIR AND REPLACE SAID DAMAGE TO OWNER'S SATISFACTION, AT GENERAL CONTRACTOR'S SOLE COST AND EXPENSE.
- BENCHMARKS: SEE EXISTING CONDITIONS & DEMOLITION PLAN.
- ELEVATION AND LABELING: ALL SPOT GRADE ELEVATIONS IN ROADWAYS AND PARKING LOTS ARE FOR BOTTOM OF CURB UNLESS OTHERWISE NOTED. ELEVATIONS ON HARD SURFACES (ROADS, WALKS, WALLS, STEPS, MANHOLES, INLETS, ETC.) ARE LABELED TO THE HUNDREDTH OF A FOOT (E.G. 245.45). ELEVATIONS ON PROPOSED LAWN AND PLANTING AREAS ARE LABELED TO THE TENTH OF A FOOT (E.G. 245.5).
- 10. DIMENSIONS: UNLESS OTHERWISE NOTED ON THE DRAWING, ALL DIMENSIONS SHOWN ON THE SITE DRAWINGS FOLLOW THESE CONVENTIONS:
 - (a) DIMENSIONS TO A BUILDING OR RETAINING WALL ARE TO THE FACE OF THE WALL; (b) DIMENSIONS TO A CURB ARE TO THE FACE (NOT THE BACK) OF THE CURB; (c) DIMENSIONS TO A FENCE ARE TO THE CENTERLINE OF THE FENCE; (d) DIMENSIONS FOR SIDEWALKS ABUTTING A CURB ARE FROM THE FACE OF CURB TO
- THE BACK EDGE OF THE WALK; (e) DIMENSIONS FOR OTHER SIDEWALKS OR OPEN PAVING SECTIONS ARE MEASURED TO THE EDGE OF PAVING;
- (f) DIMENSIONS TO A MANHOLE, INLET, CLEANOUT, PIPE BEND, VALVE, FIRE HYDRANT OR OTHER UTILITY APPURTENANCE ARE TO THE CENTER OF THE STRUCTURE; (g) DIMENSIONS FOR STEPS ARE TO THE OUTER EDGE OF THE STAIRCASE AND THE NOSE OF THE TOP OR BOTTOM STEP;
- (h) LAYOUT OF SEDIMENT CONTROL MEASURES AND PLANT MATERIAL SHALL BE SCALED.

11. GRADING: IT IS THE INTENT OF THE GRADING DESIGN TO ACHIEVE POSITIVE DRAINAGE AND AESTHETICALLY PLEASING VERTICAL CURVES AND LINES. TRANSITIONS BETWEEN EXISTING AND PROPOSED PAVEMENT SHALL BE SMOOTH AND JOINTS FLUSH. UNLESS OTHERWISE EXPRESSLY NOTED ON THE PLAN (BY ARROW WITH THE PERCENT SLOPE LABELED), ALL PROPOSED BITUMINOUS PAVING SHALL HAVE A SLOPE OF AT LEAST 2 PERCENT AND ALL CONCRETE SHALL HAVE A MINIMUM SLOPE OF 1.5 PERCENT IN THE DIRECTION INDICATED BY PROPOSED CONTOURS. UNPAVED AREAS SHALL HAVE A MINIMUM SLOPE OF 2 PERCENT AND A MAXIMUM SLOPE OF 2:1. FINAL GRADING SHALL ACHIEVE POSITIVE SURFACE DRAINAGE AWAY FROM BUILDINGS AND TOWARD DRAINAGE FACILITIES (SWALES, GUTTERS, INLETS, ETC.).

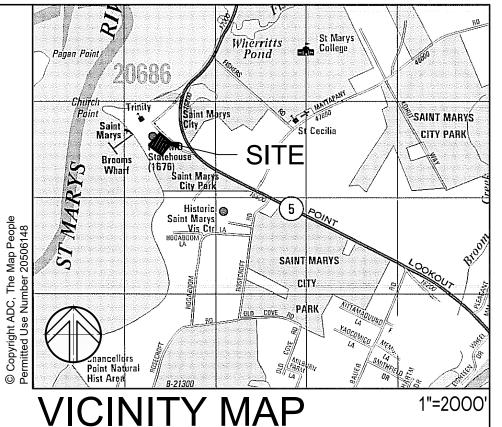
> ROUND TOP AND BOTTOM OF SLOPES. CORRECT METHOD INCORRECT METHOD

- 12. COMPACTION: ALL EARTH FILL MATERIAL UNDER SLABS, FOOTINGS AND PAVED AREAS SHALL BE PLACED IN 8" LOOSE LAYERS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D 698. ALL OTHER FILL SHALL BE COMPACTED TO 90%.
- 13. HEADINGS: THE HEADINGS CONTAINED IN THESE GENERAL NOTES ARE FOR THE CONVENIENCE OF THE READER ONLY AND SHALL NOT LIMIT THE RESPONSIBILITY OF THE CONTRACTOR, IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLETING SUCH WORK.

PROP EX ASPH CONC M OR MH SD I SAN FF BE	PROPOSED* EXISTING ASPHALT CONCRETE MANHOLE STORM DRAIN INLET SANITARY SEWER FINISHED FLOOR ELEVATION BASEMENT FLOOR FLEVATION	DIP PVC HDPE CMP RCCP C&G INV FDC FH	DUCTILE IRON PIPE POLYVINYL CHLORIDE PIPE HIGH DENSITY POLYETHYLENE PIPE CORRUGATED METAL PIPE REINFORCED CONCRETE PIPE CONCRETE CURB & GUTTER INVERT ELEVATION FIRE DEPARTMENT CONNECTION FIRE HYDRANT
BF TC TS TW PC PT PI AGIP	BASEMENT FLOOR ELEVATION TOP OF CURB TOP OF STEP TOP OF WALL POINT OF CURVATURE POINT OF TANGENCY POINT OF INTERSECTION AT-GRADE INLET PROTECTION		BOTTOM OF CURB BOTTOM OF STEP BOTTOM OF WALL PARKING SPACE HANDICAPPED PARKING SPACE TYPICAL CURB INLET PROTECTION
COIP FB RPS SFD SP TS	COMBINATION INLET PROTECTION FILTER BAG REMOVABLE PUMPING STATION SUPER FENCE DIVERSION SUMP PIT TEMPORARY SWALE	ED IB SCE SIP SSF TSOS	EARTH DIKE INLET BLOCKING STABILIZED CONSTRUCTION ENTRANCE STANDARD INLET PROTECTION SUPER SILT FENCE TEMPORARY STONE OUTLET STRUCTURE

- *PROPOSED MEANS WORK INCLUDED IN THE BASE CONTRACT UNLESS ACCOMPANIED BY THE PHRASES "N.I.C." OR "BY OTHERS."
- 15. ALL SIDEWALKS, PATHS AND OTHER PAVED AREAS SHALL BE FINISH GRADED WITH A MAXIMUM LONGITUDINAL SLOPE OF 5% (1:20) AND A MAXIMUM CROSS SLOPE OF 2% (1:50) UNLESS OTHERWISE NOTED.
- 4. STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS: UNLESS OTHERWISE NOTED 16. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL SITE ELEMENTS ARE CONSTRUCTED IN ACCORDANCE WITH THE ADA 2010 STANDARDS FOR ACCESSIBLE DESIGN OR MOST CURRENT.
 - 17. TO THE EXTENT THAT QUANTITIES MAY BE LISTED ON THESE PLANS, THEY ARE FOR PERMITTING PURPOSES ONLY AND NOT FOR BIDDING PURPOSES. CONTRACTOR SHALL FORM HIS OWN CONCLUSIONS ABOUT THE QUANTITIES OF ALL MATERIALS AND OPERATIONS NECESSARY TO COMPLETE THE PROJECT.

DRAWING INDEX				
DRAWING NO.	DRAWING NAME			
C001	Civil Notes			
C101	Existing Conditions & Demolition Plan			
C111	Proposed Site Plan			
C201	Site Details			
C202	Site Details			
C203	Site Details			
E0.1	Electrical Abbreviations, Symbols, General Notes			
E1.1	Site Lighting Plan			
E2.1	Site Lighting Calculation			
ESC101	Erosion & Sediment Control Overlay Plan			
ESC201	Erosion & Sediment Control Notes			
ESC202	Erosion & Sediment Control Notes			
ESC203	Erosion & Sediment Control Details			
L101	Landscape Plan			





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MARYLAND HERITAGE INTERPRETIVE CENTER PARKING LOT

ST. MARY'S CITY. MD

PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 42977,

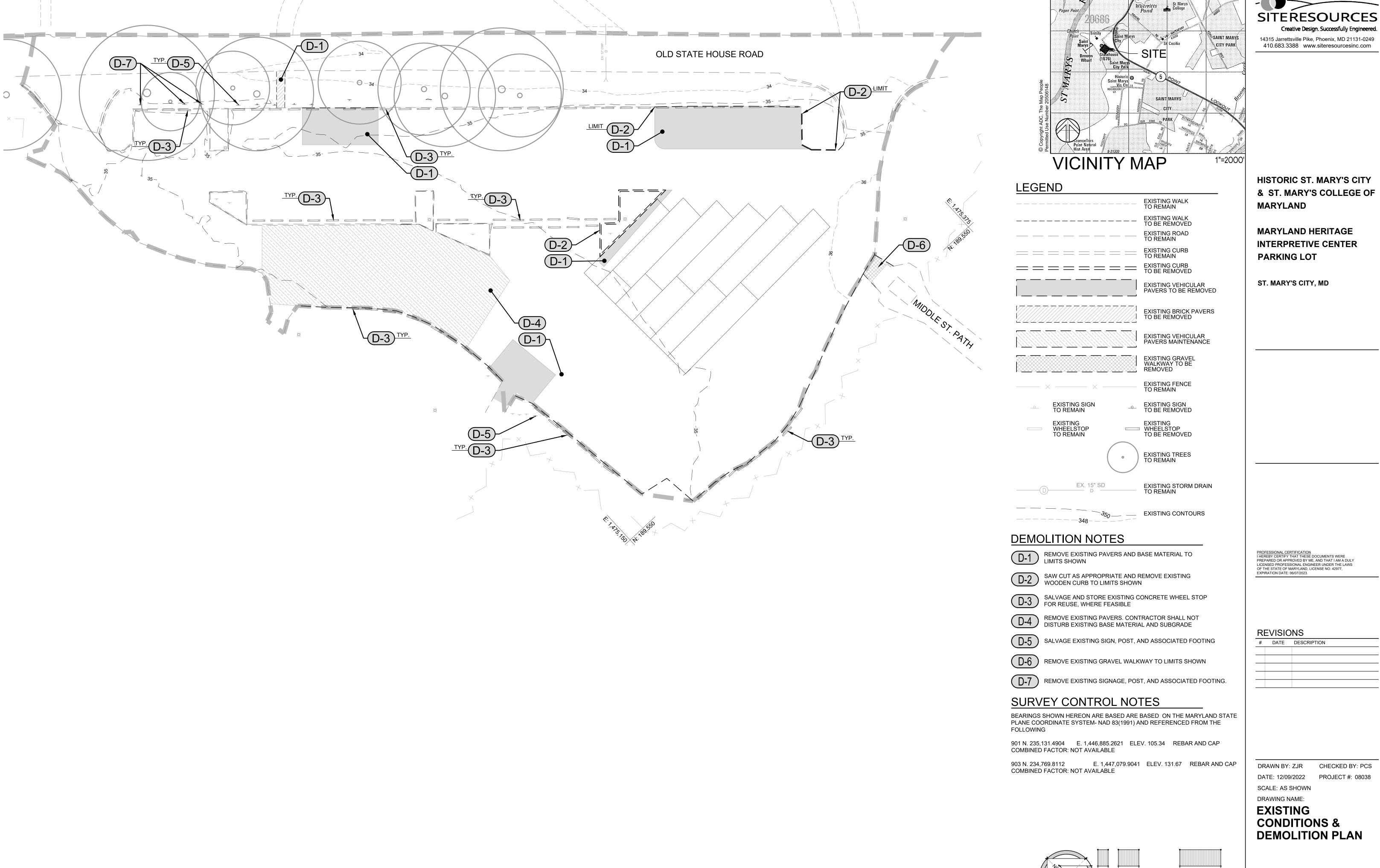
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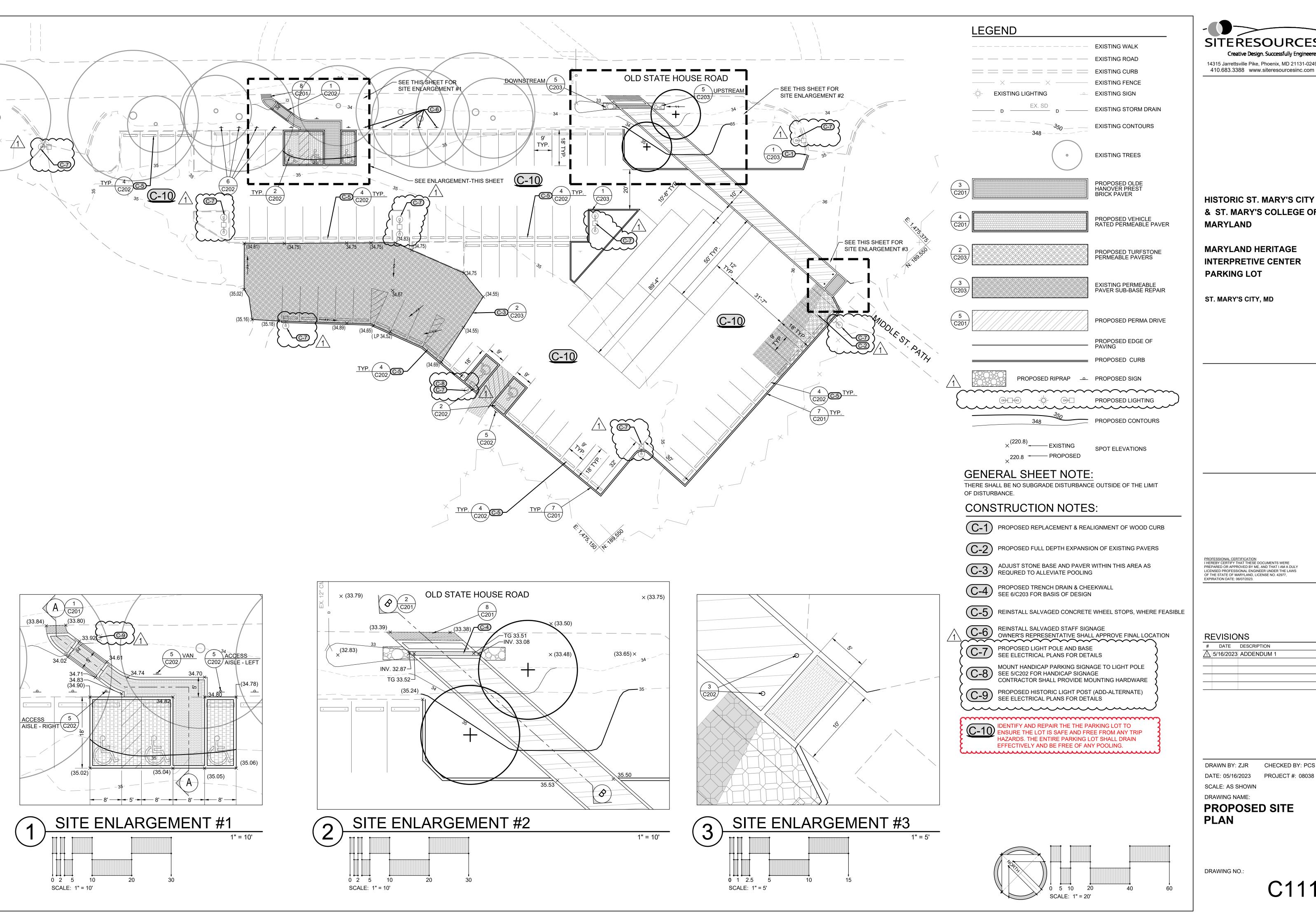
DRAWN BY: ZJR CHECKED BY: PCS DATE: 12/09/2022 PROJECT #: 08038

SCALE: AS SHOWN DRAWING NAME:

CIVIL NOTES







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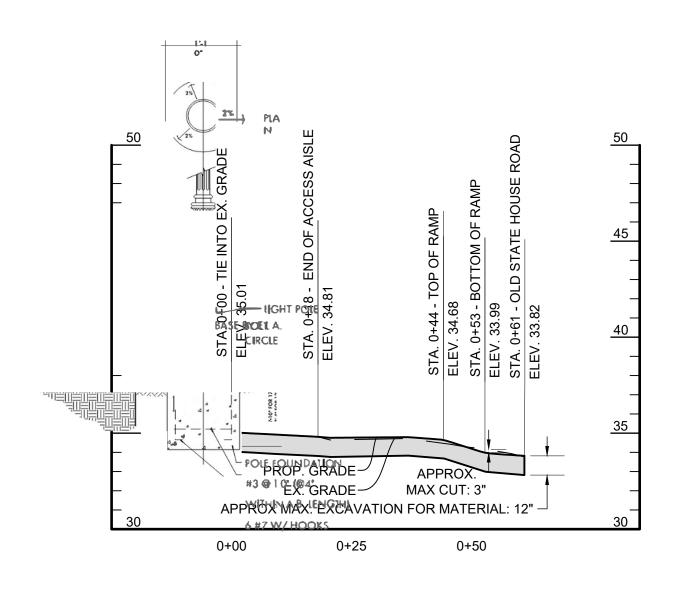
REVISIONS

DATE DESCRIPTION ↑ 5/16/2023 ADDENDUM 1

DRAWN BY: ZJR CHECKED BY: PCS DATE: 05/16/2023 PROJECT #: 08038 SCALE: AS SHOWN

DRAWING NAME:

PROPOSED SITE **PLAN**



PROP. TRENCH DRAIN-MAX CUT: 14" EX. GRADE-PROP. GRADE-APPROX MAX. EXCAVATION FOR MATERIAL: 19.5" -0+00 0+50

· 3" X 9" X 2 3/8" OLDE HANOVER PREST BRICK, RUSSET SQUARE EDGE NATURAL JOINTS BETWEEN PAVERS TO BE POLYMERIC SAND, FULLY SWEPT AND VIBRATED TO FILL JOINTS HANOVER ARCHITECTURAL PRODUCTS OR APPROVED EQUAL - 1" ASPHALT SETTING BED - 5" THICK CONCRETE PAVEMENT (MDSHA MIX #3) - 6" X 6" #9 WWM - 1/2" R EACH SIDE - 6" GRADED AGGREGATE BASE COURSE - COMPACTED SUBGRADE

- NOTES:

 1. PAVERS SHALL BE FLUSH WITH SURROUNDING EXISTING PAVEMENT. 2. JOINT BETWEEN PAVERS AND ADJACENT TO EXISTING CONCRETE SHALL BE FILLED WITH POLYMERIC SAND. POLYMERIC SAND SHALL BE FULLY SWEPT AND VIBRATED
- 3. PROVIDE ISOLATION JOINTS WHERE POUR MEETS ALL PROPOSED VERTICAL

BRICK PAVERS

SECTION A-A ADA RAMP PROFILE

SECTION B-B PERMADRIVE PROFILE

- POWERBLOCK PERMEABLE PAVER ACF ENVIRONMENTAL OR APPROVED EQUAL — 1/4" OPEN JOINT - 12" COURSE AGGREGATE #57 STONE

— CONCRETE BAND, MSHA MIX #3 /— 1/2" R EACH SIDE — ADJACENT PAVEMENT / FINISHED GRADE

- ACF M200 WOVEN GEOTEXTILE FABRIC 6" COMPACTED GRADED AGGREGATE BASE

- 1 1/2" PERMADRIVE PAVEMENT ATLANTIC POWER & INFRASTRUCTURE OR APPROVED EQUAL - 12" COURSE AGGREGATE #57 STONE 95% COMPACTION PER AASHTO T-18. - CONCRETE BAND, MSHA MIX #3 ← 1/2" R EACH SIDE - ADJACENT PAVEMENT ─ ACF M200 WOVEN GEOTEXTILE FABRIC - 6" COMPACTED GRADED AGGREGATE BASE

CONTRACTION JOINT (SCORE LINE) EDGE EACH SIDE W/ 1/8" RADIUS. · 6"X 6" W 2.9 x W 2.9 WELDED WIRE FABRIC, EPOXY COATED 1/2" PREFORMED EXPANSION JOINT, ASTM D-1751 OR D 1752. EDGE EACH SIDE W/ 1/8" - 1/2" X 16" LONG SPEED DOWELS @ 24" O.C., EPOXY COATED WITH GREASE WRAPPED WITH ASPHALT PAPER FOR 60% OF ITS LENGTH AT ALTERNATE 2" CLR.

1" = 1'-0"

- 1. PLACE EXPANSION JOINTS NOT MORE THAN 20'-25' APART AND AT THE END OF EACH CONTIGUOUS POUR.
- 2. PLACE CONTRACTION JOINTS AT INTERVAL MATCHING WIDTH OF SIDEWALK BUT NOT MORE THAN 6' APART. 3. PROVIDE EXPANSION JOINTS WHERE POUR MEETS EXISTING CONCRETE PAVING OR CURB.
- 4. EXPANSION JOINTS TO BE RECESSED 1/4" BELOW SURFACE OF SIDEWALK. 6. WHEN SIDEWALK ABUTS EXISTING CONCRETE WALK, CORE DRILL AND INSTALL DOWELS PER DETAIL.
- 7. MATCH SCORE PATTERN OF ADJACENT SIDEWALK WHERE PRACTICAL.
- 8. UNLESS OTHERWISE SHOWN ON PLAN, CONTRACTOR TO SUBMIT LAYOUT OF PROPOSED CONTRACTION EXPANSION JOINTS FOR APPROVAL PRIOR TO POURING CONCRETE.

NOTES:

1. PAVER SHALL BE FLUSH WITH SURROUNDING EXISTING PAVERS.

POWERBLOCK PERMEABLE PAVER

PERMADRIVE PAVEMENT



EXPANSION & CONTRACTION JOINTS

1"=1'-0"

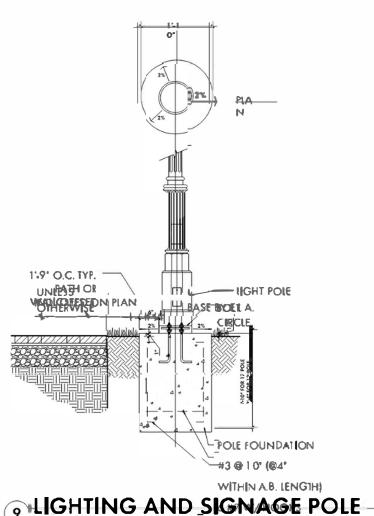
1" = 1'-0"

TURFSTONE PERMEABLE PAVERS SEE 2/C203 FOR DETAILS CONCRETE CURB EDGE MSHA MIX #3 1/2" R EACH SIDE - BACKFILLED WITH EARTH

CONCRETE CURB EDGING

11 3/4" X 11 3/4" X 2" HANOVER PREST DETECTABLE PAVER JOINTS BETWEEN PAVERS TO BE POLYMERIC SAND, FULLY SWEPT AND VIBRATED TO FILL JOINTS HANOVER ARCHITECTURAL PRODUCTS OR APPROVED EQUAL - 1" ASPHALT SETTING BED - 5" THICK CONCRETE PAVEMENT(MDSHA MIX #3) — 6" X 6" #9 WWM - x - x - x - x - x - x - x - x - 6" GRADED AGGREGATE BASE COURSE COMPACTED SUBGRADE

DETECTABLE WARNING PAVER



9 LIGHTING AND SIGNAGE POLE BASE AND FOOTING SCALE 1" - 1'-0"

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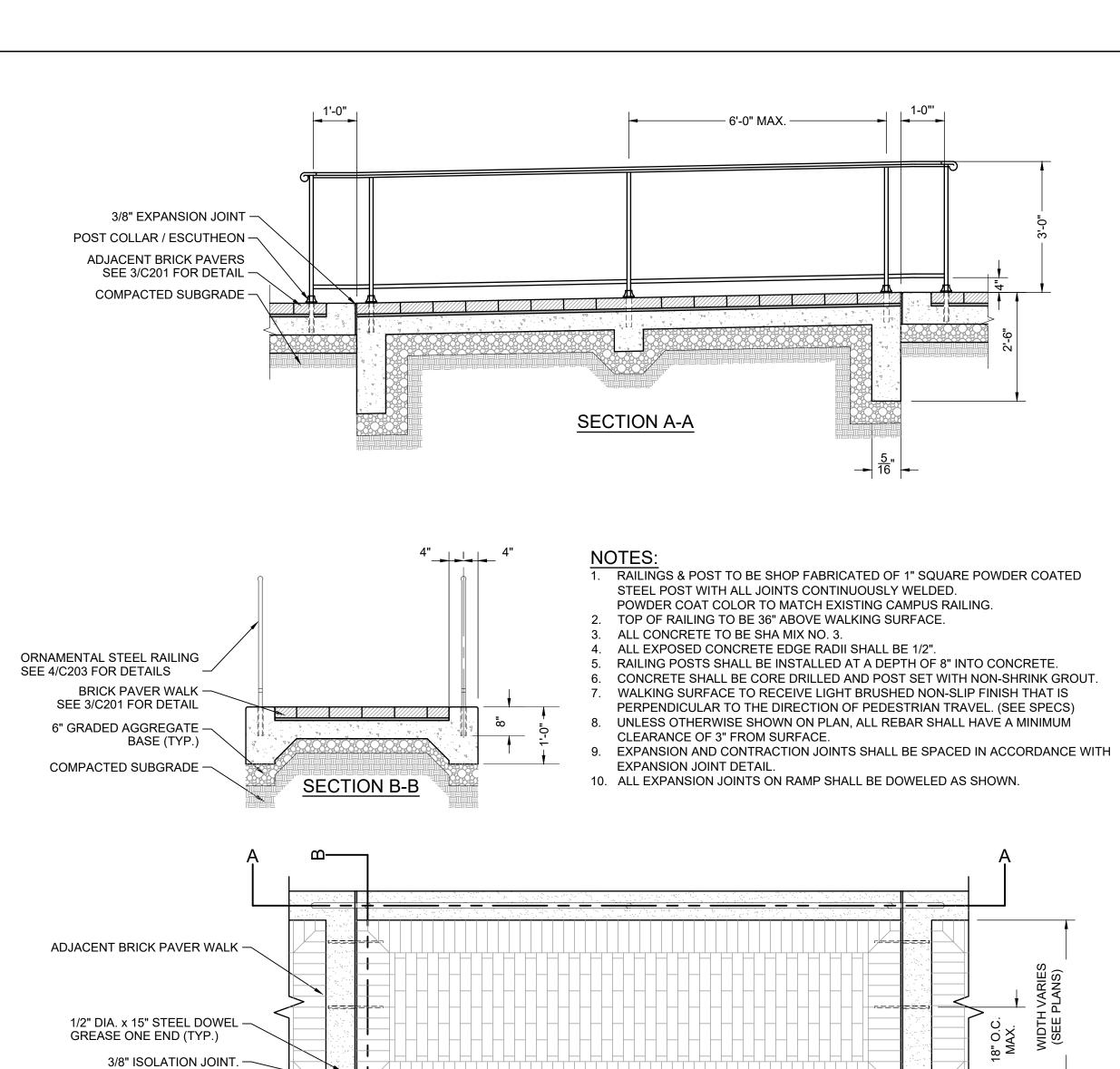
REVISIONS

DATE DESCRIPTION 1 6/27/23 Lighting & Pole Base Update

DRAWN BY: ZJR CHECKED BY: PCS PROJECT #: 08038 DATE: 12/09/2022

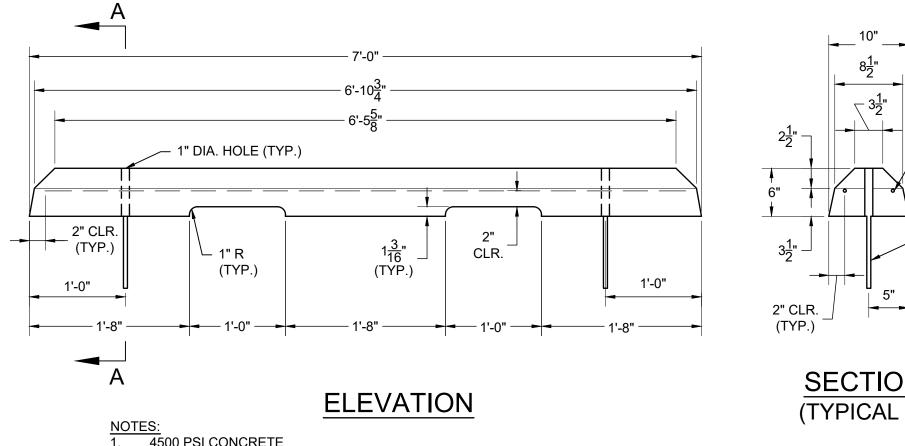
SCALE: AS SHOWN DRAWING NAME:

SITE DETAILS



RAILING -<u>PLAN</u>

RAMP



4500 PSI CONCRETE ANCHOR PINS SHALL NOT PROTRUDE ABOVE TOP OF WHEELSTOP WHEELSTOPS 24" FROM EDGE OF PAVING.

HANDICAP ACCESSIBLE SIGNAGE

LEFE VEHICLE SIGNAGE

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- 1" CHAMFER ON ALL SIDES AT

TREATMENT TO BE RATED

FOR GROUND CONTACT

PERMADRIVE PAVEMENT

SEE 5/C201 FOR DETAILS

TOP OF BOLLARD

- 60" X 6" X 6" TREATED

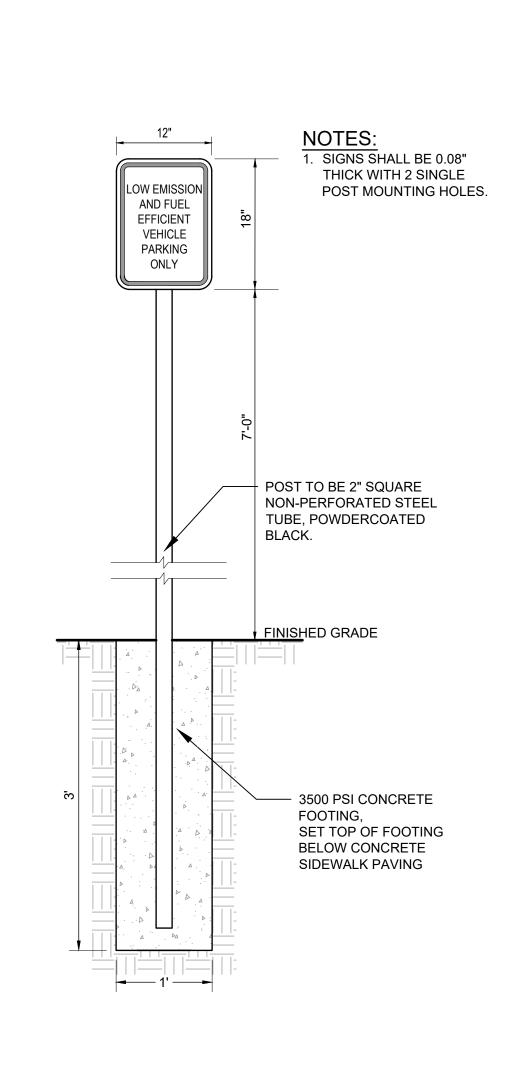
LUMBER BOLLARD

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WOOD BOLLARD



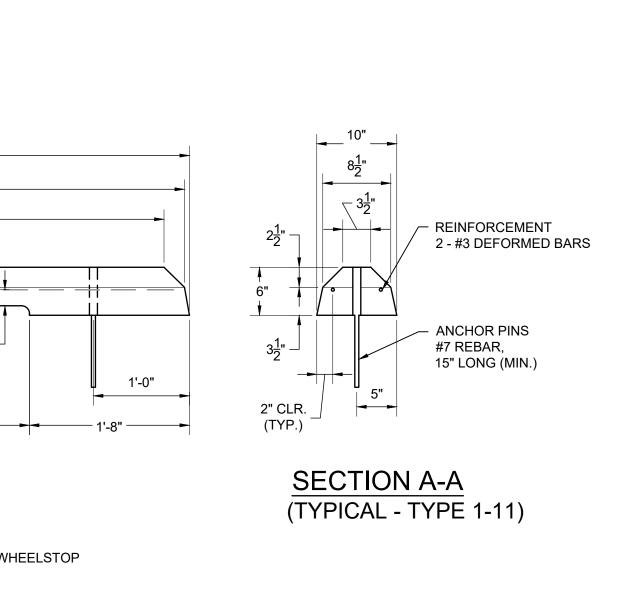
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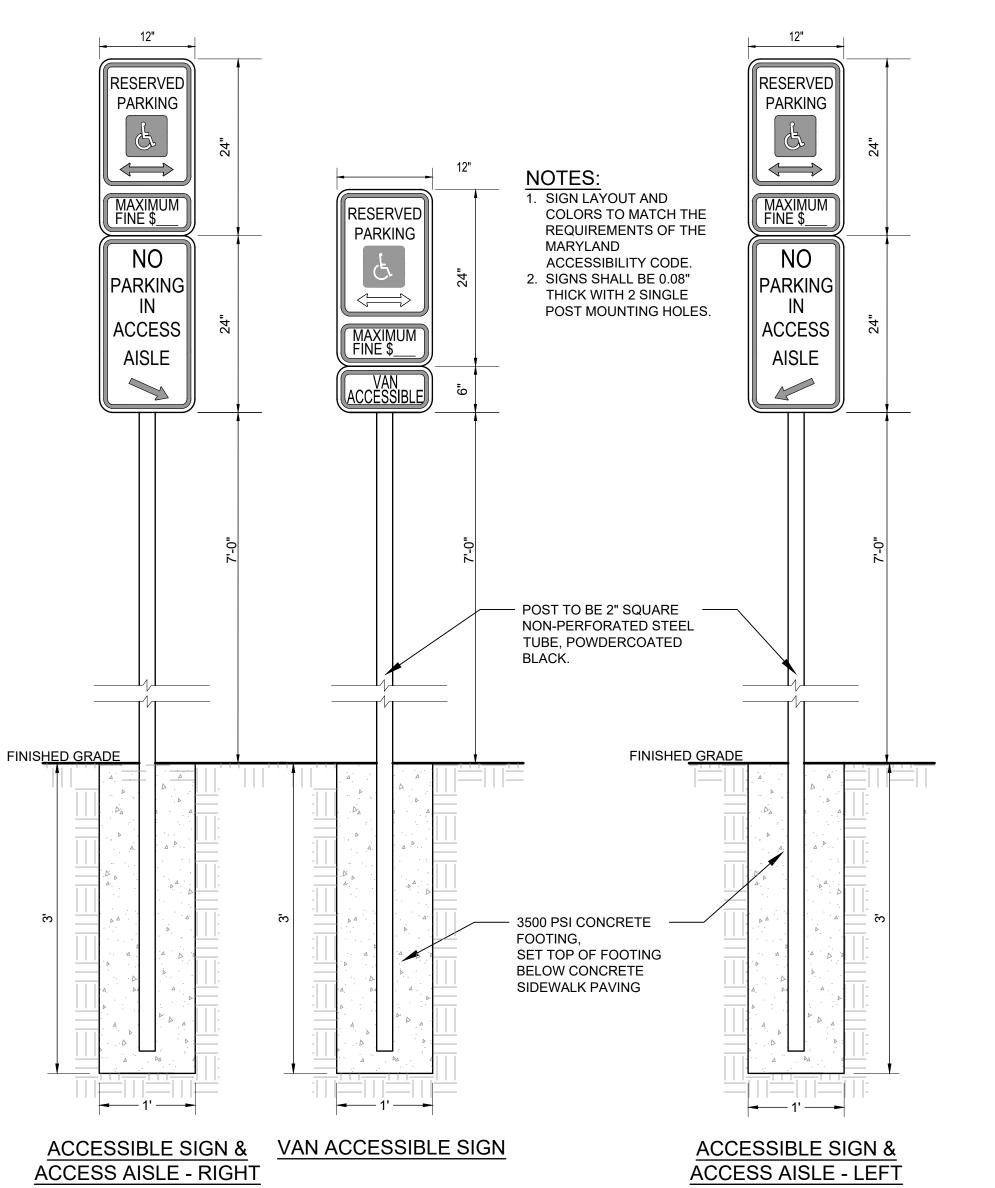
REVISIONS # DATE DESCRIPTION

DRAWN BY: ZJR CHECKED BY: PCS DATE: 12/09/2022 PROJECT #: 08038 SCALE: AS SHOWN

DRAWING NAME: SITE DETAILS

DRAWING NO.:





- H.C. SIGNS SHALL BE INSTALLED 1'-6"

INSTALLED 1'-6" BEHIND SIDEWALK)

— CONCRETE WHEEL STOP

TYPICAL HANDICAP PARKING SPACE STRIPING

- EDGE OF PAVEMENT

6'-4"

5'-0" (OR 8'-0" IF ADJACENT TO A

DESIGNATED VAN

SPACE - SEE PLAN)

LINE SPACING SHALL BE 6" WIDE PAINTED LINES

12" O.C. WITH 6" WIDE PAINTED BORDER

COLOR TO BE WHITE

SEE 4/C202 FOR DETAILS

BEHIND EDGE OF CURB (NOTE: IF SIDEWALK

ADJOINS CURB, HC SIGNS SHALL SHALL BE

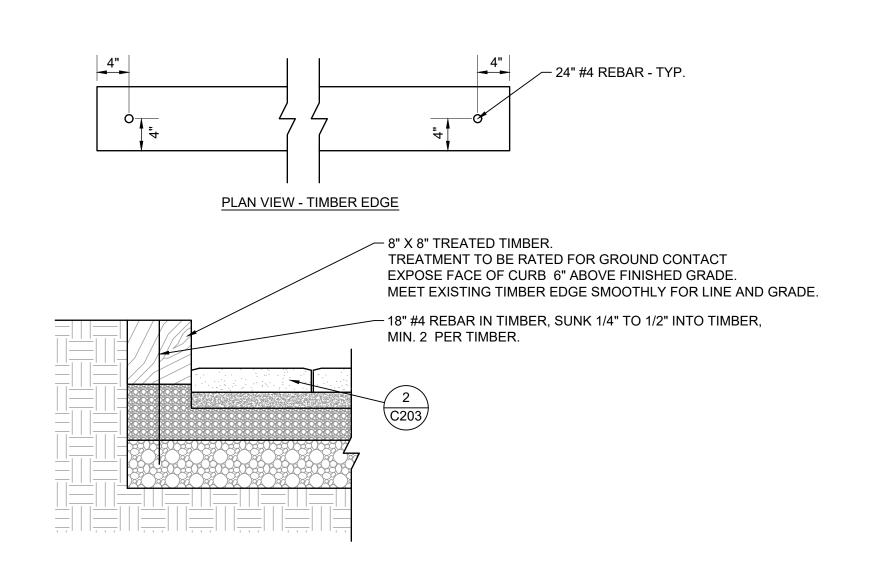
1" = 1'-0"

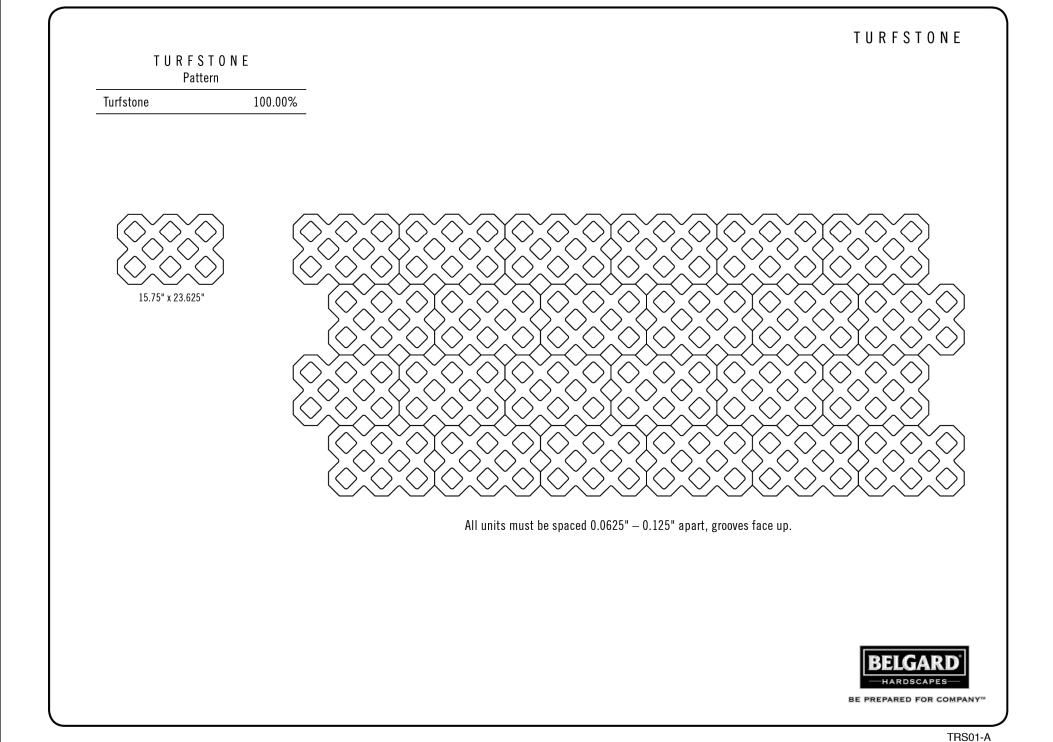
1"=1'-0"

PRECAST CONCRETE WHEEL STOP

ANCHOR PINS SHALL NOT PROTRUDE ABOVE TOP OF WHEELSTOP SET WHEELSTOPS 24" FROM EDGE OF PAVING.

NOT TO SCALE





TURFSTONE PERMEABLE PAVERS

1" = 1'-0"

- PAVERS TO BE BACKFILLED WITH WASHED

FLOWS INTO PAVEMENT VOID OPENINGS)

- BELGARD TURFSTONE PERMEABLE PAVING

(COLOR TO MATCH EXISTING PERMEABLE

CRUSHED STONE (SURFACE WATER

STONES, OR APPROVED EQUAL.

PAVERS ON CAMPUS)

- 4" OPEN GRADED BASE

- 6" NO.2 STONE SUB-BASE

(NO. 8 STONE)

(NO.57 STONE)

— EXISTING SUBGRADE

2" DRAINAGE AGGREGATE

TIMBER EDGING

1" = 1'-0"

- CONTRACTOR SHALL REPLACE PERMEABLE PAVERS AS REQUIRED. BELGARD TURFSTONE PERMEABLE PAVING STONES, OR APPROVED EQUAL. (COLOR TO MATCH EXISTING PERMEABLE PAVERS ON CAMPUS) - 2" DRAINAGE AGGREGATE (NO. 8 STONE) - 4" OPEN GRADED BASE - EXISTING SUB-BASE TO BE ADJUSTED TO ALLEVIATE SURFACE WATER POOLING.

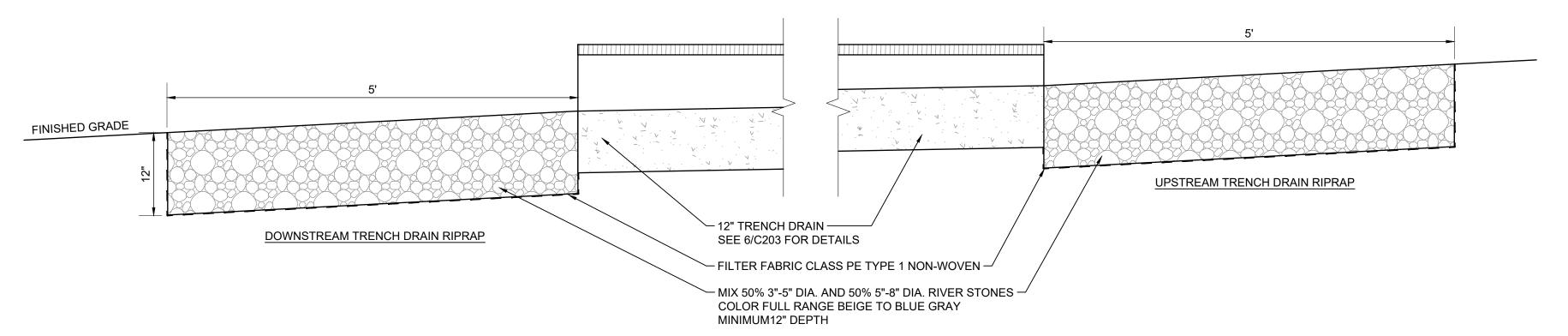
← EXISTING SUBGRADE

SEE C111 FOR SPOT ELEVATIONS.

PERMEABLE PAVER SUB BASE REPAIR

#4534 BRONZE HANDRAIL TOP JULIUS BLUM & CO. INC. OR - 3/8" LENGTH SPOT WELD @ 6" O.C. APPROVED EQUAL — → → 1 15/16" FOR HANDRAIL, GROUND SMOOTH 1 1/4" X 3/4" SOLID CARBON STEEL BOTTOM RAIL SECTION — FULL FILLET WELD @ POST & CHANNEL -1" SOLID STEEL BAR POST -- WELD & GRIND ALL JOINTS SMOOTH BRONZE VOLUTE TO MATCH — #4534 BRONZE HANDRAIL TOP TOP RAIL SECTION JULIUS BLUM & CO. INC. OR JULIUS BLUM & CO. INC. OR APPROVED EQUAL APPROVED EQUAL PLACE VOLUTE END PIECE AS CLOSE TO POST AS POSSIBLE - FULL FILLET WELDS - 1" SQ. STEEL POST MAXIMUM SPACING 5'-0"

ORNAMENTAL STEEL RAILING NOT TO SCALE



TRENCH DRAIN RIP RAP

-19.57" [497mm]-Series Number: TR12-12.504E.FB-F21E Ductile Iron per ASTM A536 Grade 80-55-06 (Uncoated) • Open Area: 0.30 FT² per Lineal Foot [0.09 M² per Lineal Meter] Load Rating: 620 PSI (AASHTO M-306 Test Method) Made in the USA 2. Form Release: Non-Petroleum Based 3. Concrete: Concrete Thickness and Reinforcement per Structural Engineer's Specification for the Application. 0.27" [7mm]— **GRATE TOP VIEW** (ROTATED 90°) ——13.71" [348mm]——— ⊢1.5" [38mm] Part #12.504E.FB Locking Device Part #1811A **GRATE END VIEW** 1.75" X 1.75" X 0.19" [44.5mm X 44.5mm X 4.8mm] Black Polymer Coated Steel Angle with Anchor Studs ——14" [356mm]—— Part #F21E —Concrete Slab —`12" [305mm]*∤* Expansion Joint Both Sides (Recommended) Varies Part #TR12 Monolithic Pour 6" [152mm] No-Float Minimum All Sides #4 Rebar U-Leg 3" [76mm] Minimum 1" [26mm] Minimum **END CROSS SECTION VIEW** TFX12 - 12" [305mm] ID Trench Former® System with Longitudinal ADA/Heel Proof Slotted Grate P.O. BOX 837, 259 MURDOCK ROAD TR12-12.504E.FB-F21E TROUTMAN, NC 28166 (704) 528-9806 Proprietary rights of ABT, Inc. are included in the information disclosed herein. The recipient, by accepting this document, agrees that neither this document nor the information disclosed herein nor any part thereof shall be copied, reproduced or transferred to others for manufacturing or for any other purpose except as specifically authorized in writing by ABT, Inc. DISCLAIMER: The customer and the customer's architects, engineers, consultants and other professionals are completely responsible for the selection, installation, and maintenance of any product purchased from ABT, and EXCEPT AS EXPRESSLY PROVIDED IN ABT'S STANDARD WARRANTIES, ABT MAKES NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE SUITABILITY, DESIGN, MERCHANTABILITY, OR FITNESS OF THE PRODUCT FOR CUSTOMER'S APPLICATION. Copies of ABT's standard warranties are available upon request.

TRENCH DRAIN - BASIS OF DESIGN

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MARYLAND HERITAGE **INTERPRETIVE CENTER PARKING LOT**

ST. MARY'S CITY, MD

1" = 1'-0"

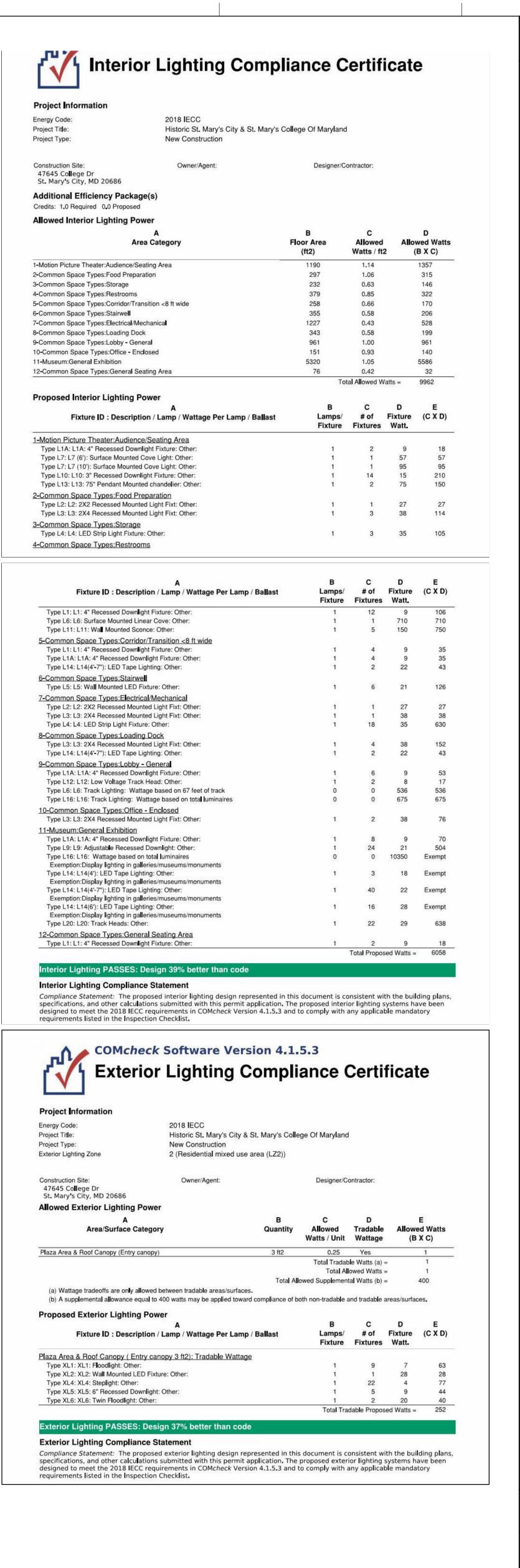
PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 42977, EXPIRATION DATE: 06/07/2023.

REVISIONS # DATE DESCRIPTION

DRAWN BY: ZJR CHECKED BY: PCS DATE: 12/09/2022 PROJECT #: 08038 SCALE: AS SHOWN

DRAWING NAME:

SITE DETAILS



A		<u> </u>	MINIMUM AIDOUT AND ACITY
A AC AF	AMPERES ALTERNATING CURRENT	MCA MCB MCC	MINIMUM CIRCUIT AMPACITY MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER
AFC	AMPERE FRAME (BREAKER RATING) ABOVE FINISHED COUNTER	MECH	MECHANICAL
AFF AFG	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE	MFR MH	MANUFACTURER MANHOLE
AHU AIC	AIR HANDLING UNIT AMPERE INTERRUPTING CAPACITY	MIN MISC	MINIMUM MISCELLANEOUS
ALT	ALTERNATE	MLO	MAIN LUGS ONLY
ARCH AT	ARCHITECT AMPERES TRIP	MOCP MTD	MAXIMUM OVERCURRENT PROTECTION MOUNTED
ATS AUTO	AUTOMATIC TRANSFER SWITCH AUTOMATIC	MTG	MOUNTING
AWG	AMERICAN WIRE GAUGE		
В		N	
BRKR, BKR BLDG	BREAKER BUILDING	N	NEUTRAL NORMALI V. CLOSED
C	BUILDING	NC NEC	NORMALLY CLOSED NATIONAL ELECTRICAL CODE
		NEMA	NATIONAL ELECTRICAL MANUFACTURE ASSOCIATION
C CB	CONDUIT CIRCUIT BREAKER	NIC NO	NOT IN CONTRACT NORMALLY OPEN
CATV CCTV	CABLE TELEVISION CLOSED CIRCUIT TELEVISION	NO., NUM, #	NUMBER
CKT	CIRCUIT	NTS	NOT TO SCALE
CLG	CEILING		
COM, COMM CP	COMMUNICATIONS CONTROL PANEL	OC OCPD	ON CENTER OVERCURRENT PROTECTION DEVICE
CPT CT	CONTROL POWER TRANSFORMER CURRENT TRANSFORMER	OFCI	
CU	COPPER	OFOI OH	OWNER FURNISHED, OWNER INSTALLED OVERHEAD
D	DIDECT CURRENT		
DC DISC	DIRECT CURRENT DISCONNECT	P	
DIST DIV	DISTRIBUTION DIVISION	P PB	POLE PULL BOX
DN DP	DOWN DISTRIBUTION PANEL	PE	PHOTO ELECTRIC
DWG	DRAWING	PF PH, ∅	POWER FACTOR PHASE
		PNL PRI	PANEL PRIMARY
С		PT	POTENTIAL TRANSFORMER
E		PVC PWR	POLYVINYL CHLORIDE POWER
EG ELEC	EQUIPMENT GROUND ELECTRIC, ELECTRICAL		
EM, EMERG	EMERGENCY	\sim	
ELEV EMT	ELEVATOR ELECTRIC METALLIC CONDUIT	Q	
ENCL	ENCLOSURE	QTY _	QUANTITY
EQ, EQUIP EWC	EQUIPMENT ELECTRIC WATER COOLER	R	
EWH	ELECTRIC WATER HEATER	R, RE	RELOCATE AS SHOWN
E, EX, EXIS	T EXISTING	RCLP RCPT	REMOTE CONTROL LIGHTING PANEL RECEPTACLE
F		RF	RADIO FREQUENCY
F	FUSE	RSC RLA	RIGID STEEL CONDUIT RATED (RUNNING) LOAD AMPS
FA FAAP	FIRE ALARM FIRE ALARM ANNUNCIATOR PANEL	RM	ROOM
FACP	FIRE ALARM CONTROL PANEL	RP	RECEPTACLE PANELBOARD
FAEP FDR	FIRE ALARM EXTENDER PANEL FEEDER	S	
FL, FLR	FLOOR	SCH, SCHED	SCHEDULE
FLA FLEX	FULL LOAD AMPS FLEXIBLE	SEC	SECONDARY
FT	FOOT/FEET (')	SF SPKR	SQUARE FOOT SPEAKER
		SPEC(S) STD	SPECIFICATION(S) STANDARD
G		SW	SWITCH
G, GND, GF	D GROUND	SWBD SWGR	SWITCHBOARD SWITCHGEAR
GEN GFI	GENERATOR GROUND FAULT INTERRUPTER	SYM	SYMMETRICAL
Н	SHOUND I MOLI INTERNOTTER		
1 1		<u> </u>	
НОА	HAND-OFF-AUTOMATIC		
HP HPS	HORSEPOWER HIGH PRESSURE SODIUM	TC	TIME CLOCK
HR HT	HOUR HEIGHT	TEL,TELE TELECOM	TELEPHONE TELECOMMUNICATIONS
HTR	HEATER		
HVAC	HEATING VENTILATION AND AIR CONDITIONING	TV TYP	TELEVISION TYPICAL
HZ	HERTZ	11	-
		<u> </u>	IMPERCE CONT.
IG IN	ISOLATED GROUND	UG UGP	UNDERGROUND UNDERGROUND PRIMARY
IN INCAND	INCH/INCHES (") INCANDESCENT	UGS	UNDERGROUND SECONDARY
1		UGT UL	UNDERGROUND TELEPHONE UNDERWRITER'S LABORATORY
J ID IDOX	IIINOTION POY	UON UPS	UNLESS OTHERWISE NOTED UNINTERRUPTIBLE POWER SUPPLY
JB, JBOX	JUNCTION BOX		3011 E1
K			
K Kcmil	KEY INTERLOCK 1000 CIRCULAR mils	V VA	VOLTS VOLT-AMPERES
KV	KILOVOLTS (THOUSAND VOLTS)	VFD	VARIABLE FREQUENCY DRIVE
KVA	KILOVOLTS—AMPERES (THOUSAND VOLT—AMPS)	W	
KWH	KILOWATTS (THOUSAND WATTS)	W	WIRE
KWH	KILOWATT-HOURS	W/	WITH
L		W/O WHM	WITHOUT WATT HOUR METER
LA	LIGHTNING ARRESTOR	WP	WEATHERPROOF
LAN LC, LCP	LOCAL AREA NETWORK LIGHTING CONTROL PANEL	X	
LP	LIGHTING PANEL	X	REMOVE DEVICE
L-L L-N	LINE TO LINE LINE TO NEUTRAL	XFMR	TRANSFORMER
L-G	LINE TO GROUND	Ζ	
LTG LV	LIGHTING LOW VOLTAGE (BELOW 50 VOLTS)		PERCENT IMPEDANCE
			_
	REFERENCE	SYMBOLS	
	THE ENERGE		

TRAWING NUMBER WHERE DRAWN

(1) KEY NOTE

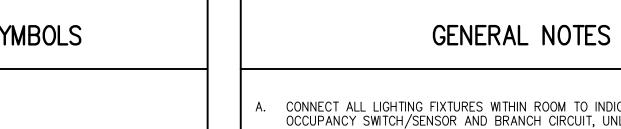
	ELECTRICAL LIGHTING SYMBOLS	E	LECTRICAL EQUIPMENT SYMBOLS
	WALL MOUNTED LIGHTING FIXTURES— TYPE AS INDICATED (SUBSCRIPT INDICATES SWITCH CONTROL ZONE) LIGHTING FIXTURE — TYPE AS INDICATED (SUBSCRIPT INDICATES SWITCH CONTROL ZONE) STRIP LIGHTING FIXTURE — TYPE AS INDICATED	(M) 	MOTOR AND CONNECTION DISCONNECT SWITCH, NON-FUSED, PROVIDE SWITCH AMPACITY EQUAL TO OR GREATER THAN FEEDER AMPACITY, UON MANUAL MOTOR STARTER WITH PILOT LIGHT AS INDICATED.
	PENDANT MOUNTED LIGHT FIXTURE		SECURITY SYSTEM SYMBOLS
	ADJUSTABLE LIGHT FIXTURE LIGHTING TRACK — "X" DENOTES TYPE LIGHT FIXTURE ON EMERGENCY GENERATOR CIRCUIT	A AL C	CCTV IP CAMERA OUTLET — CEILING MTD EMERGENCY NOTIFICATION ALARM / LOCKDOWN BUTTON AUDIBLE ALARM WHEN OPEN CARD READER — ELECTRONIC LOCK DOOR POSITION SENSOR
lacktriangledown	EXIT LIGHT — WALL/CEILING MOUNTED — DIRECTIONAL ARROWS AS INDICATED SHADING INDICATES ILLUMINATED FACE SITE LIGHTING FIXTURE TYPE AS INDICATED	TE	LECOMMUNICATIONS OUTLET SYMBOLS
	DOUBLE HEADS SITE LIGHT FIXTURE SINGLE HEAD SITE LIGHT FIXTURE ADD ALTERNATE 16' HISTORIC SITE LIGHT FIXTURE SITE LIGHT FIXTURE BASE SITE LIGHT FIXTURE HEAD	▼ ▼ •	TELECOMMUNICATIONS COMBINATION VOICE/DATA OUTLET, WALL MTD. TELECOMMUNICATIONS COMBINATION VOICE/DATA OUTLET, FLOOR MTD SERVICE FITTING, SURFACE TYPE ("F" DENOTES FLUSH TYPE, "P" DENOTES POKE THRU TYPE). RECESSED CEILING MOUNTED COMMUNICATIONS AUDIO / VISUAL (A/V) OUTLET. PROVIDE 1" EMT WITH PULL LINE FROM A/V LOCATION TO CONTROL ROOM FOR SIGNAL CONTROL.
SP SK SD	SITE LIGHT FIXTURE CALCULATION DISTRIBUTION PATTERN SINGLE POLE SWITCH WITH PILOT LIGHT KEY OPERATED SWITCH WALL MOUNTED DIMMER SWITCH	AVW «	WALL MOUNTED J-BOX FOR A/V EXIBIT. PROVIDE 1" EMT WITH PULL LINE FROM A/V LOCATION TO CONTROL ROOM FOR SIGNAL CONTROL. CEILING OR WALL MOUNTED WIRELESS ACCESS POINT. PROVIDE 1" E.C. TO IT/AV CONDUIT AS REQUIRED. REFER TO AV DRAWINGS FOR ADDITIONAL REQUIREMENTS.
SDO	WALL MOUNTED OCCUPANCY SENSOR WITH DIMMING OVERRIDE	DI	STRIBUTION AND DIAGRAM SYMBOLS
\$0 \$0\$ \$V\$ ® © @	WALL MOUNTED OVERRIDE SWITCH WALL MOUNTED VACANCY SENSOR CEILING MOUNTED DAYLIGHT SENSOR CEILING MOUNTED OCCUPANCY SENSOR PHOTO CELL	± T VFD	GROUND POWER DISTRIBUTION PANELBOARD — RATING AS INDICATED TRANSFORMER VARIABLE FREQUENCY DRIVE
	ELECTRICAL POWER SYMBOLS		ELECTRICAL WIRING SYMBOLS
ФФD Ф ФD Ф Ф Ф Ф Ф Ф Ф Ф Ф Ф Ф Ф Ф Ф Ф	SINGLE RECEPTACLE, 20A, 125V, 2P, 3W. SINGLE RECEPTACLE, 20A, 125V, 2P, 3W, DEDICATED CIRCUIT. DUPLEX RECEPTACLE, 20A, 125V, 2P, 3W. DUPLEX RECEPTACLE, 20A, 125V, 2P, 3W, DEDICATED CIRCUIT. DUPLEX RECEPTACLE ABOVE FINISHED COUNTER, 20A, 125V, 2P, 3W. GFI, SIMPLEX RECEPTACLE, 20A, 125V, 2P, 3W. GFI, DUPLEX RECEPTACLE, 20A, 125V, 2P, 3W. QUADRUPLEX RECEPTACLE, (2)20A, 125V, 2P, 3W, DUPLEX RECEPTACLES WITH A COMMON FACEPLATE. CEILING MOUNTED DUPLEX RECEPTACLE, 20A, 125V, 2P, 3W. CEILING MOUNTED QUADRUPLEX RECEPTACLE, (2)20A, 125V, 2P, 3W WITH A COMMON FACEPLATE. FLOOR MOUNTED DRUPLEX RECEPTACLE, 20A, 125V, 2P, 3W WITH A COMMON FACEPLATE. FLOOR MOUNTED QUADRUPLEX RECEPTACLE, 20A, 125V, 2P, 3W WITH A COMMON FACEPLATE. FLOOR MOUNTED QUADRUPLEX RECEPTACLE, (2)20A, 125V, 2P, 3W, DUPLEX RECEPTACLES WITH A COMMON FACEPLATE. SPECIAL PURPOSE RECEPTACLE. TYPE AS INDICATED ON DRAWINGS. COORDINATE RECEPTACLE TYPE WITH ACTUAL EQUIPMENT PRIOR TO INSTALLATION.	G GB CB CB CB CB CB CB CB CB CB	HOMERUN TO PANEL WITH CIRCUIT NUMBER(S) AS INDICATED CONDUIT RUN CONCEALED IN FINISHED AREAS, EXPOSED IN UNFINISHED AREAS OR BELOW ACCESS FLOORS CONDUIT CAST IN CONCRETE OR BELOW SLAB UNDERGROUND CONDUIT/DUCTBANK GROUND CABLE, SIZE AS INDICATED GROUND BUS CONDUIT TURNED UP CONDUIT TURNED DOWN ELECTRIC MANHOLE TELEPHONE MANHOLE GROUND ROD
Φ	SPECIAL PURPOSE RECEPTACLE. TYPE AS INDICATED ON DRAWINGS. COORDINATE RECEPTACLE TYPE WITH ACTUAL EQUIPMENT PRIOR TO INSTALLATION. DEDICATED CIRCUIT.		

JUNCTION BOX (RECESSED/SURFACE) - CEILING OR WALL MOUNTED -

INDICATED IN POWER, LIGHTING & FIRE ALARM SYSTEMS PLANS.

RAISE / LOWERED SWITCH FOR MOTORIZED PROJECTION SCREEN

JUNCTION BOX — FLOOR MOUNTED



A. CONNECT ALL LIGHTING FIXTURES WITHIN ROOM TO INDICATED SWITCH OR OCCUPANCY SWITCH/SENSOR AND BRANCH CIRCUIT, UNLESS OTHERWISE NOTED.

B. REFER TO ARCH. REFLECTED CEILING PLANS FOR EXACT LOCATION OF CEILING MOUNTED DEVICES AND LIGHT FIXTURES.

WHERE MULTIPLE SWITCHES, RECEPTACLES, AND OTHER OUTLETS (EXCEPT WALL PHONES) ARE INDICATED PROVIDE MULTI-GANG BACK BOXES WITH GANG BARRIERS AND A COMMON FACEPLATE. WHERE DIFFERENT RECESSED ELECTRICAL DEVICES WITH THE SAME MOUNTING

HEIGHTS ARE INDICATED SIDE-BY-SIDE, MOUNT THE DEVICES SO THAT THERE IS FOUR INCHES BETWEEN ADJACENT VERTICAL EDGES OF THE FACEPLATES, UON. WHERE ELECTRICAL DEVICES WITH DIFFERENT MOUNTING HEIGHTS ARE LOCATED IN THE SAME AREA ALIGN DEVICES VERTICALLY THROUGH THEIR CENTERLINES.

PROVIDE SEPARATE NEUTRAL WIRES FOR 120 VOLT MULTI-RECEPTACLE BRANCH CIRCUITS FED FROM PANELBOARDS SPECIFIED OR INDICATED FOR NONLINEAR LOADS. WHERE EXIT SIGNS ARE INDICATED ABOVE DOOR MOUNT AS FOLLOWS: CENTER THE EXIT SIGN BETWEEN TOP OF DOOR FRAME AND CEILING IF DISTANCE BETWEEN TOP OF DOOR FRAME AND CEILING IS 24 INCHES OR LESS; OTHERWISE

WALL MOUNTED EXIT SIGNS IN THE SAME AREA AT THE SAME HEIGHT. H. EXIT SIGNS ARE TO BE TYPE "X1", UON.

REFER TO "FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE - NONLINEAR LOADS" FOR CIRCUIT DESIGNATIONS WITH AN "NL" SUFFIX (e.g. 100A, 5W-NL) AND FOR APPLICATIONS WHERE CIRCUITS WITH SEPARATE NEUTRALS ARE RUN IN CONDUIT. PROVIDE SEPARATE NEUTRALS FOR DIMMING CIRCUITS.

MOUNT BOTTOM OF EXIT SIGN 6 INCHES FROM TOP OF DOOR FRAME, MOUNT OTHER

FOR MOTORS CONTROLLED BY VARIABLE FREQUENCY DRIVE (VFD) WHICH ARE PROVIDED BY DIVISION 15, PROVIDE FEEDER FROM MCC TO VFD AND FROM VFD TO MOTOR. FOR MOTORS NOT CONTROLLED BY VFD WHICH ARE PROVIDED BY DIVISION 15, PROVIDE FEEDER AND LOCAL DISCONNECT SWITCH / VFD FROM MCC TO MOTOR

PROVIDE FEEDERS AND BRANCH CIRCUITS WHICH HAVE AN AMPACITY EQUAL TO OR GREATER THAN THE CIRCUIT OVERCURRENT PROTECTIVE DEVICE RATING, U.O.N. REFER TO CIRCUIT SIZING SCHEDULE FOR SIZES OF FEEDERS AND BRANCH

M. FURNITURE LAYOUTS, WHERE SHOWN ON THE DRAWING ARE FOR REFERENCE ONLY. THE FINAL LOCATION OF ALL ELECTRICAL DEVICES AND OUTLETS SHALL BE COORDINATED WITH ARCHITECT, OWNER AND FINAL FURNITURE PLANS PRIOR TO INSTALLATION.

N. ALL DEVICES SHALL BE FLUSH MOUNTED WITH CONCEALED CONDUIT, EXCEPT AS NOTED ON THE DRAWINGS AND IN ELECTRICAL EQUIPMENT ROOMS.

PROVIDE ARC FLASH HAZARD WARNING SIGNS CLEARLY VISIBLE ON ALL ELECTRICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO THE FOLLOWING: SWITCHBOARDS, METER SOCKET ENCLOSURES AND OTHER EQUIPMENT THAT REQUIRES EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED.

THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDUIT AND CONDITIONS PRIOR

PROVIDE 3-CIRCUIT SURFACE RACEWAY AND CONNECT RECEPTACLES TO ALTERNATE CIRCUITS AS FOLLOWS - U.O.N. PROVIDE POWER OUTLETS EVERY FOOT AND DATA OUTLETS EVERY TWO FEET.

MOUNTING HEIGHTS

WALL SWITCHES 4'-0" AFF

l	RECEPTACLES -	- 1'-6" AFF
l	TELECOMMUNICATIONS OUTLETS-	- 1'-6" AFF
l	TELECOMMUNICATIONS OUTLETS - WALL PHONE-	- 4'-6" AFF
l	CLOCK OUTLETS	- 7'-6" AFF
l	TV OUTLETS -	- 7'-6" AFF
l	PUSHBUTTONS —	- 4'-0" AFF
l	DISCONNECT SWITCHES -	- 5'-6" AFF
l	MOTOR STARTERS	- 5'-6" AFF
١	PANELS & CABINETS	- 6'-0" TO TOP
l	DIMMERS —	- 4'-0" AFF
l	INDIVIDUAL CIRCUIT BREAKERS-	- 5'-6" TO TOP
l	ACCESS CONTROL DEVICES	4'-0" AFF
l	VANITY LIGHT IN TOILET—	6" ABOVE THE MIRROR
l	FIREMAN'S PHONE	- 4'-6" AFF
	FIRE ALARM — PULL STATIONS—————	4'-0" AFF
	FIRE ALARM DEVICES HORN/SPEAKERS/STROBES -	BETWEEN +80

MOUNTING HEIGHT NOTES:

1. ALL ELEVATIONS ARE TO CENTER LINE OF DEVICE, UNLESS OTHERWISE NOTED. 2. REFER TO EQUIPMENT ELEVATION DRAWINGS FOR COORDINATION WITH

AND 96"AFF. (MOUNTING HEIGHT AT THE BOTTOM OF THE FIRE ALARM DEVICE

3. MOUNT MANUAL MOTOR STARTER ADJACENT TO OR ON UNIT.

OR 6" BELOW CEILING WHICH IS LOWER)

* CONSULT WITH PROJECT ARCHITECT REGARDING MOUNTING HEIGHTS SHOWN ON AO SERIES DRAWINGS. DELETE MOUNTING HEIGHTS SCHEDULE ON THIS DRAWING. USE THE MOUNTING HEIGHT SCHEDULE ONLY IF THE AO SERIES DRAWINGS WILL

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MEP Engineers 1801 Research Blvd Suite 100 Rockville, MD 20850 T 301.230.0811 Structural Engineer Washington, DC 20036 T 202 628 1600

Site Resources Civil Engineer 14315 Jarrettsville Pike, P.O. Box 249 Phoenix, MD 21131-0249 T 410.683.3388 Michael Vergason Landscape Architects

Landscape Architect 907 King Street, Suite 200 Alexandria, VA 22314 T 703.836.5557

SITE LIGHTING		05.02.23
RFI 005	02	03.03.23
ADDENDUM 01	01	04.26.22
ISSUED FOR PERMIT		03.04.22
100% CONSTRUCTION DOCUMENTS		01.09.12

REV DATE

SEALS AND SIGNATURES

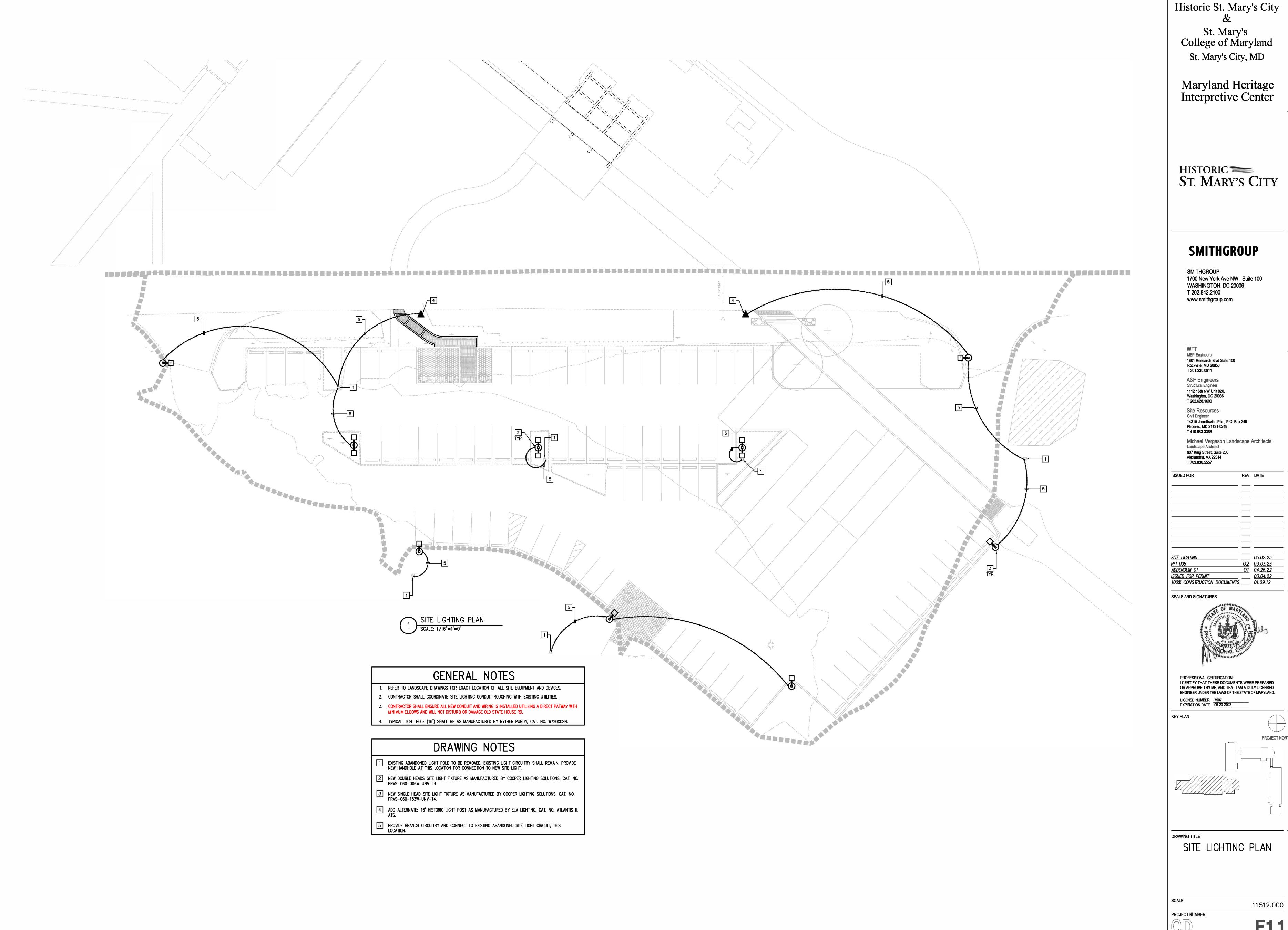
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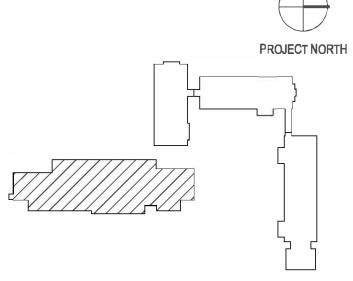
ELECTRICAL ABBREVIATIONS, SYMBOLS AND GENERAL NOTES

11512.000 PROJECT NUMBER DRAWING NUMBER



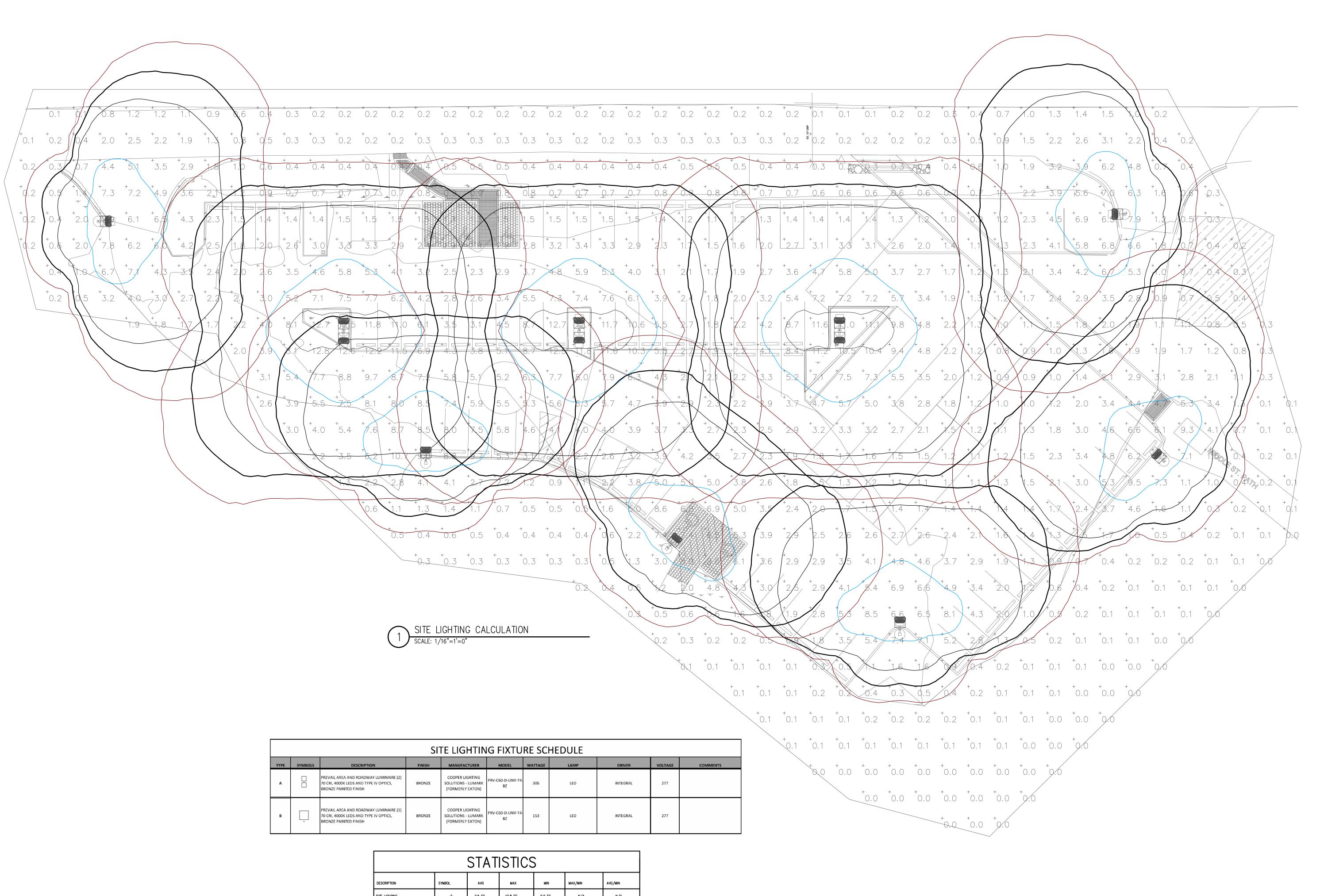
Historic St. Mary's City St. Mary's College of Maryland

ISSUED FOR	REV	DATE
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SITE LIGHTING	_	05.02.23
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ISSUED FOR PERMIT		03.04.22
100% CONSTRUCTION DOCUMENTS		01.09.12



E1.1

DRAWING NUMBER



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Maryland Heritage Interpretive Center

St. Mary's City, MD

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WFT MEP Engineers 1801 Research Blvd Suite 100

Washington, DC 20036 T 202.628.1600

Civil Engineer 14315 Jarrettsville Pike, P.O. Box 249 Phoenix, MD 21131-0249 T 410.683.3388

Site Resources

Michael Vergason Landscape Architects Landscape Architect 907 King Street, Suite 200 Alexandria, VA 22314 T 703.836.5557

ISSUED FOR REV DATE 05.02.23 02 03.03.23 01 04.26.22 ____ <u>03.04.22</u> ISSUED FOR PERMIT 100% CONSTRUCTION DOCUMENTS _____ 01.09.12

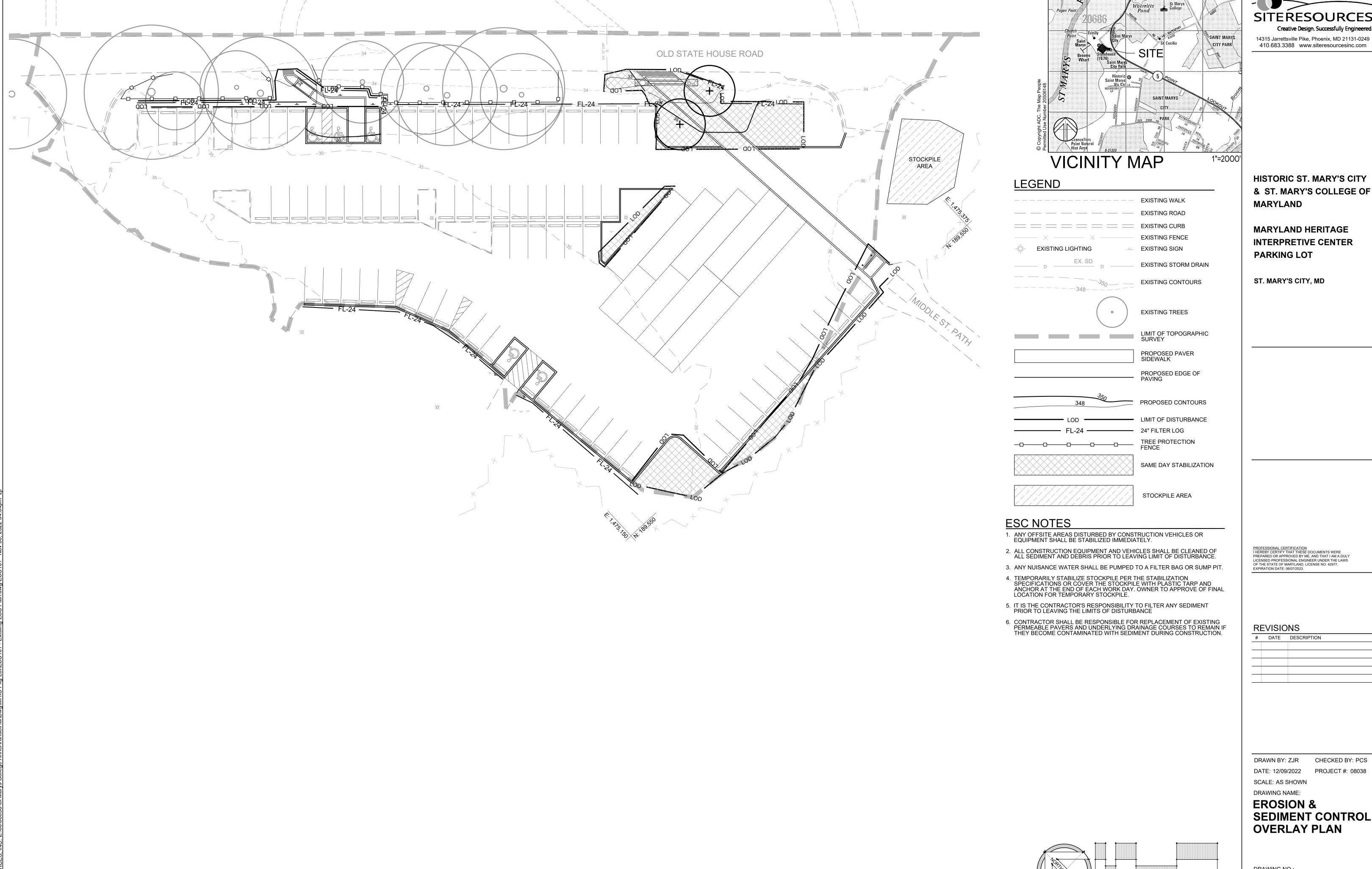
SEALS AND SIGNATURES



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SITE LIGHTING CALCULATION

11512.000 PROJECT NUMBER DRAWING NUMBER



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INTERPRETIVE CENTER

1 11	TAL VIOLOTO				
#	DATE	DESCRIPTION			
-					

SEDIMENT CONTROL

DRAWING NO.:

ESC101

B-4 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

USING VEGETATION AS COVER TO PROTECT EXPOSED SOIL FROM EROSION.

<u>PURPOSE</u>
TO PROMOTE THE ESTABLISHMENT OF VEGETATION ON EXPOSED SOIL.

CONDITIONS WHERE PRACTICE APPLIES ON ALL DISTURBED AREAS NOT STABILIZED BY OTHER METHODS. THIS SPECIFICATION IS DIVIDED INTO SECTIONS ON INCREMENTAL STABILIZATION; SOIL PREPARATION, SOIL AMENDMENTS AND TOPSOILING; SEEDING AND MULCHING: TEMPORARY STABILIZATION: AND PERMANENT STABILIZATION.

EFFECTS ON WATER QUALITY AND QUANTITY

STABILIZATION PRACTICES ARE USED TO PROMOTE THE ESTABLISHMENT OF VEGETATION ON EXPOSED SOIL. WHEN SOIL IS STABILIZED WITH VEGETATION, THE SOIL IS LESS LIKELY TO ERODE AND MORE LIKELY TO ALLOW INFILTRATION OF RAINFALL, THEREBY REDUCING SEDIMENT LOADS AND RUNOFF TO DOWNSTREAM AREAS.

PLANTING VEGETATION IN DISTURBED AREAS WILL HAVE AN EFFECT ON THE WATER BUDGET, ESPECIALLY ON VOLUMES AND RATES OF RUNOFF, INFILTRATION, EVAPORATION, TRANSPIRATION, PERCOLATION, AND GROUNDWATER RECHARGE. OVER TIME, VEGETATION WILL INCREASE ORGANIC MATTER CONTENT AND IMPROVE THE WATER HOLDING CAPACITY OF THE SOIL AND SUBSEQUENT PLANT GROWTH.

VEGETATION WILL HELP REDUCE THE MOVEMENT OF SEDIMENT, NUTRIENTS, AND OTHER CHEMICALS CARRIED BY RUNOFF TO RECEIVING WATERS. PLANTS WILL ALSO HELP PROTECT GROUNDWATER SUPPLIES BY ASSIMILATING THOSE SUBSTANCES PRESENT WITHIN THE ROOT ZONE.

SEDIMENT CONTROL PRACTICES MUST REMAIN IN PLACE DURING GRADING, SEEDBED PREPARATION, SEEDING, MULCHING, AND VEGETATIVE ESTABLISHMENT.

ADEQUATE VEGETATIVE ESTABLISHMENT

INSPECT SEEDED AREAS FOR VEGETATIVE ESTABLISHMENT AND MAKE NECESSARY REPAIRS, REPLACEMENTS, AND RESERVINGS WITHIN THE PLANTING SEASON.

- 1. ADEQUATE VEGETATIVE STABILIZATION REQUIRES 95 PERCENT GROUNDCOVER.
- 2. IF AN AREA HAS LESS THAN 40 PERCENT GROUNDCOVER, RESTABILIZE FOLLOWING THE ORIGINAL RECOMMENDATIONS FOR LIME, FERTILIZER, SEEDBED PREPARATION, AND SEEDING.
- 3. IF AN AREA HAS BETWEEN 40 AND 94 PERCENT GROUNDCOVER. OVER-SEED AND FERTILIZE USING HALF OF THE RATES ORIGINALLY
- 4. MAINTENANCE FERTILIZER RATES FOR PERMANENT SEEDING ARE SHOWN IN TABLE B.6.

B-4-1 STANDARDS AND SPECIFICATIONS FOR INCREMENTAL **STABILIZATION**

ESTABLISHMENT OF VEGETATIVE COVER ON CUT AND FILL SLOPES.

TO PROVIDE TIMELY VEGETATIVE COVER ON CUT AND FILL SLOPES AS WORK

CONDITIONS WHERE PRACTICE APPLIES

ANY CUT OR FILL SLOPE GREATER THAN 15 FEET IN HEIGHT. THIS PRACTICE ALSO APPLIES TO STOCKPILES.

- A. INCREMENTAL STABILIZATION CUT SLOPES
- EXCAVATE AND STABILIZE CUT SLOPES IN INCREMENTS NOT TO EXCEED 15 FEET IN HEIGHT. PREPARE SEEDBED AND APPLY SEED AND MULCH ON ALL CUT SLOPES AS THE WORK PROGRESSES.
- 2. CONSTRUCTION SEQUENCE EXAMPLE (REFER TO FIGURE a. CONSTRUCT AND STABILIZE ALL TEMPORARY SWALES OR DIKES THAT WILL BE USED TO CONVEY RUNOFF AROUND THE EXCAVATION.
- PERFORM PHASE 1 EXCAVATION, PREPARE SEEDBED, AND
- STABILIZE PERFORM PHASE 2 EXCAVATION, PREPARE SEEDBED, AND STABILIZE. OVERSEED PHASE 1 AREAS AS NECESSARY.
- PERFORM FINAL PHASE EXCAVATION, PREPARE SEEDBED, AND STABILIZE. OVERSEED PREVIOUSLY SEEDED AREAS AS NECESSARY.

NOTE: ONCE EXCAVATION HAS BEGUN, THE OPERATION SHOULD BE CONTINUOUS FROM GRUBBING THROUGH THE COMPLETION OF GRADING AND PLACEMENT OF TOPSOIL (IF REQUIRED) AND PERMANENT SEED AND MULCH. ANY INTERRUPTIONS IN THE OPERATION OR COMPLETING THE OPERATION OUT OF THE SEEDING SEASON WILL NECESSITATE THE APPLICATION OF TEMPORARY STABILIZATION.

- B. INCREMENTAL STABILIZATION FILL SLOPES
- 1. CONSTRUCT AND STABILIZE FILL SLOPES IN INCREMENTS NOT TO EXCEED 15 FEET IN HEIGHT. PREPARE SEEDBED AND APPLY SEED AND MULCH ON ALL SLOPES AS THE WORK PROGRESSES.
- 2. STABILIZE SLOPES IMMEDIATELY WHEN THE VERTICAL HEIGHT OF A LIFT REACHES 15 FEET, OR WHEN THE GRADING OPERATION CEASES AS PRESCRIBED ON THE PLANS.
- 3. AT THE END OF EACH DAY, INSTALL TEMPORARY WATER CONVEYANCE PRACTICE(S), AS NECESSARY, TO INTERCEPT SURFACE RUNOFF AND CONVEY IT DOWN THE SLOPE IN A NON-EROSIVE MANNER.
- 4. CONSTRUCTION SEQUENCE EXAMPLE (REFER TO FIGURE B.2): a. CONSTRUCT AND STABILIZE ALL TEMPORARY SWALES OR DIKES THAT WILL BE USED TO DIVERT RUNOFF AROUND THE FILL. CONSTRUCT SILT FENCE ON LOW SIDE OF FILL UNLESS OTHER
- METHODS SHOWN ON THE PLANS ADDRESS THIS AREA. b. AT THE END OF EACH DAY, INSTALL TEMPORARY WATER CONVEYANCE PRACTICE(S), AS NECESSARY, TO INTERCEPT SURFACE RUNOFF AND CONVEY IT DOWN THE SLOPE IN A NON-EROSIVE MANNER.
- PLACE PHASE 1 FILL, PREPARE SEEDBED, AND STABILIZE. PLACE PHASE 2 FILL, PREPARE SEEDBED, AND STABILIZE.
- PLACE FINAL PHASE FILL, PREPARE SEEDBED, AND STABILIZE. OVERSEED PREVIOUSLY SEEDED AREAS AS NECESSARY.

NOTE: ONCE THE PLACEMENT OF FILL HAS BEGUN, THE OPERATION SHOULD BE CONTINUOUS FROM GRUBBING THROUGH THE COMPLETION OF GRADING AND PLACEMENT OF TOPSOIL (IF REQUIRED) AND PERMANENT SEED AND MULCH. ANY INTERRUPTIONS IN THE OPERATION OR COMPLETING THE OPERATION OUT OF THE SEEDING SEASON WILL NECESSITATE THE APPLICATION OF TEMPORARY STABILIZATION.

B-4-2 STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING AND SOIL AMENDMENTS

<u>DEFINITION</u>
THE PROCESS OF PREPARING THE SOILS TO SUSTAIN ADEQUATE VEGETATIVE STABILIZATION.

TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH.

CONDITIONS WHERE PRACTICE APPLIES WHERE VEGETATIVE STABILIZATION IS TO BE ESTABLISHED.

- A. SOIL PREPARATION
- 1. TEMPORARY STABILIZATION
- a. SEEDBED PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT, SUCH AS DISC HARROWS OR CHISEL PLOWS OR RIPPERS MOUNTED ON CONSTRUCTION EQUIPMENT. AFTER THE SOIL IS LOOSENED, IT MUST NOT BE ROLLED OR DRAGGED SMOOTH BUT LEFT IN THE ROUGHENED CONDITION. SLOPES 3:1 OR FLATTER ARE TO BE TRACKED WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE.
- APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.
- PERMANENT STABILIZATION a. A SOIL TEST IS REQUIRED FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE. THE MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT **VEGETATIVE ESTABLISHMENT ARE:**
- SOIL PH BETWEEN 6.0 AND 7.0. SOLUBLE SALTS LESS THAN 500 PARTS PER MILLION (PPM).
- SOIL CONTAINS LESS THAN 40 PERCENT CLAY BUT ENOUGH FINE GRAINED MATERIAL (GREATER THAN 30 PERCENT SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MOISTURE. AN EXCEPTION: IF LOVEGRASS WILL BE PLANTED, THEN A SANDY SOIL (LESS THAN 30 PERCENT SILT PLUS CLAY) WOULD BE ACCEPTABLE.
- SOIL CONTAINS 1.5 PERCENT MINIMUM ORGANIC MATTER BY WEIGHT. SOIL CONTAINS SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT
- PENETRATION. APPLICATION OF AMENDMENTS OR TOPSOIL IS REQUIRED IF ON-SITE SOILS DO NOT MEET THE ABOVE CONDITIONS.
- GRADED AREAS MUST BE MAINTAINED IN A TRUE AND EVEN GRADE AS SPECIFIED ON THE APPROVED PLAN, THEN SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5 INCHES.
- APPLY SOIL AMENDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED BY THE RESULTS OF A SOIL TEST.
- e. MIX SOIL AMENDMENTS INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. RAKE LAWN AREAS TO SMOOTH THE SURFACE, REMOVE LARGE OBJECTS LIKE STONES AND BRANCHES, AND READY THE AREA FOR SEED APPLICATION. LOOSEN SURFACE SOIL BY DRAGGING WITH A HEAVY CHAIN OR OTHER EQUIPMENT TO ROUGHEN THE SURFACE WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDBED PREPARATION. TRACK SLOPES 3:1 OR FLATTER WITH TRACKED EQUIPMENT LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE. LEAVE THE TOP 1 TO 3 INCHES OF SOIL LOOSE AND FRIABLE. SEEDBED LOOSENING MAY BE UNNECESSARY ON NEWLY DISTURBED AREAS.

B. TOPSOILING

- TOPSOIL IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION. THE PURPOSE IS TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.
- TOPSOIL SALVAGED FROM AN EXISTING SITE MAY BE USED PROVIDED IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-NRCS.
- 3. TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE: a. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT
- ADEQUATE TO PRODUCE VEGETATIVE GROWTH THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
- c. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
- THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE. 4. AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION
- 5. TOPSOIL SPECIFICATIONS: SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING CRITERIA:
- a. TOPSOIL MUST BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. TOPSOIL MUST NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND MUST CONTAIN LESS THAN 5 PERCENT BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 11/2
- b. TOPSOIL MUST BE FREE OF NOXIOUS PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACK GRASS, JOHNSON GRASS, NUT SEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
- TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL
- **TOPSOIL** 6. TOPSOIL APPLICATION

INCHES IN DIAMETER.

- a. EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING TOPSOIL
- UNIFORMLY DISTRIBUTE TOPSOIL IN A 5 TO 8 INCH LAYER AND LIGHTLY COMPACT TO A MINIMUM THICKNESS OF 4 INCHES. SPREADING IS TO BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS MUST BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
- TOPSOIL MUST NOT BE PLACED IF THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.
- C. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)
 - SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OF 5 ACRES OR MORE. SOIL ANALYSIS MAY BE PERFORMED BY A RECOGNIZED PRIVATE OR COMMERCIAL LABORATORY. SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO BE USED FOR CHEMICAL ANALYSES.
 - FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROPRIATE EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE APPROPRIATE APPROVAL AUTHORITY. FERTILIZERS MUST ALL BE DELIVERED TO THE SITE FULLY LABELED ACCORDING TO THE APPLICABLE LAWS AND MUST BEAR THE NAME, TRADE NAME OR TRADEMARK AND WARRANTY OF THE PRODUCER.

- 3. LIME MATERIALS MUST BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED EXCEPT WHEN HYDROSEEDING) WHICH CONTAINS AT LEAST 50 PERCENT TOTAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE). LIMESTONE MUST BE GROUND TO SUCH FINENESS THAT AT LEAST 50 PERCENT WILL PASS THROUGH A #100 MESH SIEVE AND 98 TO 100 PERCENT WILL PASS THROUGH A #20 MESH SIEVE.
- 4. LIME AND FERTILIZER ARE TO BE EVENLY DISTRIBUTED AND INCORPORATED INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.
- WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, SPREAD GROUND LIMESTONE AT THE RATE OF 4 TO 8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF

B-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING

THE APPLICATION OF SEED AND MULCH TO ESTABLISH VEGETATIVE COVER.

TO PROTECT DISTURBED SOILS FROM EROSION DURING AND AT THE END OF CONSTRUCTION.

CONDITIONS WHERE PRACTICE APPLIES TO THE SURFACE OF ALL PERIMETER CONTROLS, SLOPES, AND ANY DISTURBED AREA NOT UNDER ACTIVE GRADING.

A. SEEDING

- 1. SPECIFICATIONS
- a. ALL SEED MUST MEET THE REQUIREMENTS OF THE MARYLAND STATE SEED LAW. ALL SEED MUST BE SUBJECT TO RE-TESTING BY A RECOGNIZED SEED LABORATORY. ALL SEED USED MUST HAVE BEEN TESTED WITHIN THE 6 MONTHS IMMEDIATELY PRECEDING THE DATE OF SOWING SUCH MATERIAL ON ANY PROJECT. REFER TO TABLE B.4 REGARDING THE QUALITY OF SEED. SEED TAGS MUST BE AVAILABLE UPON REQUEST TO THE INSPECTOR TO VERIFY TYPE OF SEED AND SEEDING RATE.
- MULCH ALONE MAY BE APPLIED BETWEEN THE FALL AND SPRING SEEDING DATES ONLY IF THE GROUND IS FROZEN. THE APPROPRIATE SEEDING MIXTURE MUST BE APPLIED WHEN THE
- **GROUND THAWS.** INOCULANTS: THE INOCULANT FOR TREATING LEGUME SEED IN THE SEED MIXTURES MUST BE A PURE CULTURE OF NITROGEN FIXING BACTERIA PREPARED SPECIFICALLY FOR THE SPECIES. INOCULANTS MUST NOT BE USED LATER THAN THE DATE INDICATED ON THE CONTAINER. ADD FRESH INOCULANTS AS DIRECTED ON THE PACKAGE. USE FOUR TIMES THE RECOMMENDED RATE WHEN HYDROSEEDING. NOTE: IT IS VERY IMPORTANT TO KEEP INOCULANT AS COOL AS POSSIBLE UNTIL USED. TEMPERATURES ABOVE 75 TO 80 DEGREES FAHRENHEIT CAN WEAKEN BACTERIA AND MAKE THE INOCULANT LESS EFFECTIVE.
- SOD OR SEED MUST NOT BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.
- 2. APPLICATION a. DRY SEEDING: THIS INCLUDES USE OF CONVENTIONAL DROP OR
- **BROADCAST SPREADERS** INCORPORATE SEED INTO THE SUBSOIL AT THE RATES
- PRESCRIBED ON TEMPORARY SEEDING TABLE B.1, PERMANENT SEEDING TABLE B.3. OR SITE-SPECIFIC SEEDING SUMMARIES. APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION. ROLL THE SEEDED AREA WITH A WEIGHTED ROLLER TO PROVIDE GOOD SEED TO SOIL CONTACT.
- DRILL OR CULTIPACKER SEEDING: MECHANIZED SEEDERS THAT APPLY AND COVER SEED WITH SOIL.
- CULTIPACKING SEEDERS ARE REQUIRED TO BURY THE SEED IN SUCH A FASHION AS TO PROVIDE AT LEAST 1/4 INCH OF SOIL COVERING. SEEDBED MUST BE FIRM AFTER PLANTING.
- APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION. HYDROSEEDING: APPLY SEED UNIFORMLY WITH HYDROSEEDER
- (SLURRY INCLUDES SEED AND FERTILIZER). i. IF FERTILIZER IS BEING APPLIED AT THE TIME OF SEEDING, THE APPLICATION RATES SHOULD NOT EXCEED THE FOLLOWING: NITROGEN, 100 POUNDS PER ACRE TOTAL OF SOLUBLE NITROGEN; P2O5 (PHOSPHOROUS), 200 POUNDS PER ACRE; K2O (POTASSIUM), 200 POUNDS PER ACRE.
- LIME: USE ONLY GROUND AGRICULTURAL LIMESTONE (UP TO 3 TONS PER ACRE MAY BE APPLIED BY HYDROSEEDING). NORMALLY, NOT MORE THAN 2 TONS ARE APPLIED BY HYDROSEEDING AT ANY ONE TIME. DO NOT USE BURNT OR HYDRATED LIME WHEN HYDROSEEDING.
- iii. MIX SEED AND FERTILIZER ON SITE AND SEED IMMEDIATELY AND WITHOUT INTERRUPTION. iv. WHEN HYDROSEEDING DO NOT INCORPORATE SEED INTO THE

B. MULCHING

- 1. MULCH MATERIALS (IN ORDER OF PREFERENCE) a. STRAW CONSISTING OF THOROUGHLY THRESHED WHEAT, RYE, OAT, OR BARLEY AND REASONABLY BRIGHT IN COLOR. STRAW IS TO BE FREE OF NOXIOUS WEED SEEDS AS SPECIFIED IN THE MARYLAND SEED LAW AND NOT MUSTY, MOLDY, CAKED, DECAYED, OR EXCESSIVELY DUSTY. NOTE: USE ONLY STERILE STRAW MULCH
- IN AREAS WHERE ONE SPECIES OF GRASS IS DESIRED. WOOD CELLULOSE FIBER MULCH (WCFM) CONSISTING OF SPECIALLY PREPARED WOOD CELLULOSE PROCESSED INTO A UNIFORM FIBROUS PHYSICAL STATE.
- WCFM IS TO BE DYED GREEN OR CONTAIN A GREEN DYE IN THE PACKAGE THAT WILL PROVIDE AN APPROPRIATE COLOR TO FACILITATE VISUAL INSPECTION OF THE UNIFORMLY SPREAD
- WCFM, INCLUDING DYE, MUST CONTAIN NO GERMINATION OR GROWTH INHIBITING FACTORS. iii. WCFM MATERIALS ARE TO BE MANUFACTURED AND
- PROCESSED IN SUCH A MANNER THAT THE WOOD CELLULOSE FIBER MULCH WILL REMAIN IN UNIFORM SUSPENSION IN WATER UNDER AGITATION AND WILL BLEND WITH SEED, FERTILIZER AND OTHER ADDITIVES TO FORM A HOMOGENEOUS SLURRY. THE MULCH MATERIAL MUST FORM A BLOTTER-LIKE GROUND COVER, ON APPLICATION, HAVING MOISTURE ABSORPTION AND PERCOLATION PROPERTIES AND MUST COVER AND HOLD GRASS SEED IN CONTACT WITH THE SOIL WITHOUT INHIBITING THE GROWTH OF THE GRASS SEEDLINGS.
- WCFM MATERIAL MUST NOT CONTAIN ELEMENTS OR COMPOUNDS AT CONCENTRATION LEVELS THAT WILL BE PHYTO-TOXIC.
- WCFM MUST CONFORM TO THE FOLLOWING PHYSICAL REQUIREMENTS: FIBER LENGTH OF APPROXIMATELY 10 MILLIMETERS, DIAMETER APPROXIMATELY 1 MILLIMETER, PH RANGE OF 4.0 TO 8.5, ASH CONTENT OF 1.6 PERCENT MAXIMUM

AND WATER HOLDING CAPACITY OF 90 PERCENT MINIMUM.

- 2. APPLICATION a. APPLY MULCH TO ALL SEEDED AREAS IMMEDIATELY AFTER
- SEEDING. WHEN STRAW MULCH IS USED, SPREAD IT OVER ALL SEEDED AREAS AT THE RATE OF 2 TONS PER ACRE TO A UNIFORM LOOSE DEPTH OF 1 TO 2 INCHES. APPLY MULCH TO ACHIEVE A UNIFORM DISTRIBUTION AND DEPTH SO THAT THE SOIL SURFACE IS NOT EXPOSED. WHEN USING A MULCH ANCHORING TOOL, INCREASE
- THE APPLICATION RATE TO 2.5 TONS PER ACRE. WOOD CELLULOSE FIBER USED AS MULCH MUST BE APPLIED AT A NET DRY WEIGHT OF 1500 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER TO ATTAIN A MIXTURE WITH A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.
- ANCHORING
- a. PERFORM MULCH ANCHORING IMMEDIATELY FOLLOWING APPLICATION OF MULCH TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS (LISTED BY PREFERENCE), DEPENDING UPON THE SIZE OF THE AREA AND **EROSION HAZARD:**
- A MULCH ANCHORING TOOL IS A TRACTOR DRAWN IMPLEMENT DESIGNED TO PUNCH AND ANCHOR MULCH INTO THE SOIL SURFACE A MINIMUM OF 2 INCHES. THIS PRACTICE IS MOST EFFECTIVE ON LARGE AREAS, BUT IS LIMITED TO FLATTER SLOPES WHERE EQUIPMENT CAN OPERATE SAFELY. IF USED ON SLOPING LAND, THIS PRACTICE SHOULD FOLLOW THE CONTOUR.
- WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. APPLY THE FIBER BINDER AT A NET DRY WEIGHT OF 750 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER AT A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.
- SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRO-TACK), DCA-70, PETROSET, TERRA TAX II. TERRA TACK AR OR OTHER APPROVED EQUAL MAY BE USED. FOLLOW APPLICATION RATES AS SPECIFIED BY THE MANUFACTURER. APPLICATION OF LIQUID BINDERS NEEDS TO BE HEAVIER AT THE EDGES WHERE WIND CATCHES MULCH, SUCH AS IN VALLEYS AND ON CRESTS OF BANKS. USE OF ASPHALT BINDERS IS STRICTLY PROHIBITED.
- LIGHTWEIGHT PLASTIC NETTING MAY BE STAPLED OVER THE MULCH ACCORDING TO MANUFACTURER RECOMMENDATIONS. NETTING IS USUALLY AVAILABLE IN ROLLS 4 TO 15 FEET WIDE AND 300 TO 3,000 FEET LONG.

B-4-4 STANDARDS AND SPECIFICATIONS FOR TEMPORARY **STABILIZATION**

TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS.

TO USE FAST GROWING VEGETATION THAT PROVIDES COVER ON DISTURBED SOILS.

CONDITIONS WHERE PRACTICE APPLIES EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR A PERIOD OF 6 MONTHS OR LESS. FOR LONGER DURATION OF TIME, PERMANENT

- SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE B.1 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3), AND ENTER THEM IN THE TEMPORARY SEEDING SUMMARY BELOW ALONG WITH APPLICATION RATES, SEEDING DATES AND SEEDING DEPTHS IF THIS SUMMARY IS NOT PUT ON THE PLAN AND COMPLETED, THEN TABLE
- B.1 PLUS FERTILIZER AND LIME RATES MUST BE PUT ON THE PLAN. FOR SITES HAVING SOIL TESTS PERFORMED, USE AND SHOW THE RECOMMENDED RATES BY THE TESTING AGENCY. SOIL TESTS ARE NOT
- REQUIRED FOR TEMPORARY SEEDING. 3. WHEN STABILIZATION IS REQUIRED OUTSIDE OF A SEEDING SEASON, APPLY SEED AND MULCH OR STRAW MULCH ALONE AS PRESCRIBED IN SECTION B-4-3.A.1.B AND MAINTAIN UNTIL THE NEXT SEEDING SEASON.

TEMPORARY SEEDING SUMMARY

STABILIZATION PRACTICES ARE REQUIRED.

TEIMI STUTT SEEDING SOMMATT						
	HARDINESS ZONE 7 <u>B</u>					
SPECIES	APPLICATION RATE (LBS./AC.)	SEEDING DATES	SEEDING DEPTH	FERTILIZER RATE (10-20-20)	LIME RATE	
ANNUAL RYEGRASS	40 LBS./AC.	2/15 - 4/30 8/15 - 11/30	1/2"	436 LB./AC.	2 TONS/AC.	
FOXTAIL MILLET	30 LBS./AC.	5/1 - 8/14	1/2"	(10 LB./1000 S.F.)	(90 LB./1000 S.F.)	

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DRAWN BY: ZJR CHECKED BY: PCS PROJECT #: 08038 DATE: 12/09/2022

SCALE: AS SHOWN DRAWING NAME:

EROSION & SEDIMENT CONTROL NOTES

B-4-5 STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION

TO STABILIZE DISTURBED SOILS WITH PERMANENT VEGETATION.

TO USE LONG-LIVED PERENNIAL GRASSES AND LEGUMES TO ESTABLISH PERMANENT GROUND COVER ON DISTURBED SOILS.

CONDITIONS WHERE PRACTICE APPLIES

EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR 6 MONTHS OR MORE.

A. SEED MIXTURES

- GENERAL USE
- SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE B.3 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3) AND BASED ON THE SITE CONDITION OR PURPOSE FOUND ON TABLE B.2. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.
- ADDITIONAL PLANTING SPECIFICATIONS FOR EXCEPTIONAL SITES SUCH AS SHORELINES, STREAM BANKS, OR DUNES OR FOR SPECIAL PURPOSES SUCH AS WILDLIFE OR AESTHETIC TREATMENT MAY BE FOUND IN USDA-NRCS TECHNICAL FIELD OFFICE GUIDE, SECTION 342 - CRITICAL AREA PLANTING.
- C. FOR SITES HAVING DISTURBED AREA OVER 5 ACRES, USE AND SHOW THE RATES RECOMMENDED BY THE SOIL TESTING AGENCY. D. FOR AREAS RECEIVING LOW MAINTENANCE, APPLY UREA FORM FERTILIZER (46-0-0) AT 3 ½ POUNDS PER
- 1000 SQUARE FEET (150 POUNDS PER ACRE) AT THE TIME OF SEEDING IN ADDITION TO THE SOIL AMENDMENTS SHOWN IN THE PERMANENT SEEDING SUMMARY.
- 2. TURFGRASS MIXTURES A. AREAS WHERE TURFGRASS MAY BE DESIRED INCLUDE LAWNS, PARKS, PLAYGROUNDS, AND COMMERCIAL SITES WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE.
- B. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED BELOW BASED ON THE SITE CONDITIONS OR PURPOSE. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.
 - i. KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN AREAS THAT RECEIVE INTENSIVE MANAGEMENT. IRRIGATION REQUIRED IN THE AREAS OF CENTRAL MARYLAND AND EASTERN SHORE. RECOMMENDED CERTIFIED KENTUCKY BLUEGRASS CULTIVARS SEEDING RATE: 1.5 TO 2.0 POUNDS PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.
 - ii. KENTUCKY BLUEGRASS/PERENNIAL RYE: FULL SUN MIXTURE: FOR USE IN FULL SUN AREAS WHERERAPID ESTABLISHMENT IS NECESSARY AND WHEN TURF WILL RECEIVE MEDIUM TO INTENSIVE MANAGEMENT. CERTIFIED PERENNIAL RYEGRASS CULTIVARS/CERTIFIED KENTUCKY BLUEGRASS SEEDING RATE: 2 POUNDS MIXTURE PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.
 - iii. TALL FESCUE/KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN DROUGHT PRONE AREAS AND/OR FOR AREAS RECEIVING LOW TO MEDIUM MANAGEMENT IN FULL SUN TO MEDIUM SHADE. RECOMMENDED MIXTURE INCLUDES; CERTIFIED TALL FESCUE CULTIVARS 95 TO 100 PERCENT, CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 0 TO 5 PERCENT. SEEDING RATE: 5 TO 8 POUNDS PER 1000 SQUARE FEET. ONE OR MORE CULTIVARS MAY BE BLENDED.
 - iv. KENTUCKY BLUEGRASS/FINE FESCUE: SHADE MIXTURE: FOR USE IN AREAS WITH SHADE IN BLUEGRASS LAWNS. FOR ESTABLISHMENT IN HIGH QUALITY, INTENSIVELY MANAGED TURF AREA. MIXTURE INCLUDES; CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 30 TO 40 PERCENT AND CERTIFIED FINE FESCUE AND 60 TO 70 PERCENT. SEEDING RATE: 1½ TO 3 POUNDS PER 1000 SQUARE FEET.

SELECT TURFGRASS VARIETIES FROM THOSE LISTED IN THE MOST CURRENT UNIVERSITY OF MARYLAND PUBLICATION, AGRONOMY MEMO #77, TURFGRASS CULTIVAR RECOMMENDATIONS FOR MARYLAND"

- CHOOSE CERTIFIED MATERIAL. CERTIFIED MATERIAL IS THE BEST GUARANTEE OF CULTIVAR PURITY. THE CERTIFICATION PROGRAM OF THE MARYLAND DEPARTMENT OF AGRICULTURE. TURF AND SEED SECTION, PROVIDES A RELIABLE MEANS OF CONSUMER PROTECTION AND ASSURES A PURE GENETIC LINE.
- IDEAL TIMES OF SEEDING FOR TURF GRASS MIXTURES WESTERN MD: MARCH 15 TO JUNE 1, AUGUST 1 TO OCTOBER 1 (HARDINESS ZONES: 5B. 6A) CENTRAL MD: MARCH 1 TO MAY 15. AUGUST 15 TO OCTOBER 15 (HARDINESS ZONE: 6B) SOUTHERN MD, EASTERN SHORE: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONES: 7A, 7B)
- D. TILL AREAS TO RECEIVE SEED BY DISKING OR OTHER APPROVED METHODS TO A DEPTH OF 2 TO 4 INCHES, LEVEL AND RAKE THE AREAS TO PREPARE A PROPER SEEDBED. REMOVE STONES AND DEBRIS OVER 1 1/2 INCHES IN DIAMETER. THE RESULTING SEEDBED MUST BE IN SUCH CONDITION THAT FUTURE MOWING OF GRASSES WILL POSE NO DIFFICULTY.
- E. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT GROWTH (1/2 TO 1 INCH EVERY 3 TO 4 DAYS DEPENDING ON SOIL TEXTURE) UNTIL THEY ARE FIRMLY ESTABLISHED. THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE LATE IN THE PLANTING SEASON, IN ABNORMALLY DRY OR HOT SEASONS, OR ON ADVERSE SITES.

PERMANENT SEEDING SUMMARY

MIXTURE AND RATE AND PARAGRAPH A.2.C FOR TURFGRASS SEEDING DATES.

HARDINESS ZONE <u>7B</u>						FERTILIZER RATE (10-20-20)		
NO.	SPECIES	APPLICATION RATE (LB/AC)		SEEDING DEPTHS	N	P ₂ 0 ₅	K₂0	RATE
***	TALL FESCUE*	285 LB/AC**	3/1 - 5/15 8/15 - 10/15	1/4" - 1/2"	45 LB/AC (1.0 LB/	90 LB/AC (2 LB/ 1000 SF)	90 LB/AC (2 LB/ 1000 SF)	2 TONS/AC (90LB/ 1000 SF)
	KENTUCKY BLUEGRASS*	15 LB/AC	3/1 - 5/15 8/15 - 10/15	1/4" - 1/2"	1000SF)			

- SELECT TUREGRASS VARIETIES FROM THOSE LISTED AS ELIGIBLE "RECOMMENDED VARIETIES" CONTAINED IN THE CURRENT "MARYLAND." TURFGRASS VARIETY LIST" PUBLISHED BY THE STATE OF MARYLAND, DEPARTMENT OF AGRICULTURE (MDA), TURF & SEED ADMINISTRATION. st FOR TALL FESCUE CHOOSE 3 PROVEN CULTIVARS TO BE USED IN EQUAL PROPORTIONS IN THE SEED MIX. *** SEE 2011 MD STANDARDS & SPECIFICATIONS FOR SOIL EROSION & SEDIMENT CONTROL, SECTION B-4-5, PARAGRAPH A.2.B.III FOR TURFGRASS
- B. SOD: TO PROVIDE QUICK COVER ON DISTURBED AREAS (2:1 GRADE OR FLATTER).
- GENERAL SPECIFICATIONS A. CLASS OF TURFGRASS SOD MUST BE MARYLAND STATE CERTIFIED. SOD LABELS MUST BE MADE AVAILABLE TO THE JOB FOREMAN AND INSPECTOR.
- B. SOD MUST BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF ¾ INCH, PLUS OR MINUS ¼ INCH, AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS MUST EXCLUDE TOP GROWTH AND THATCH. BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE ACCEPTABLE.
- C. STANDARD SIZE SECTIONS OF SOD MUST BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION.
- D. SOD MUST NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR
- WET) MAY ADVERSELY AFFECT ITS SURVIVAL. SOD MUST BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPLANTED WITHIN THIS PERIOD MUST BE APPROVED BY AN AGRONOMIST OR SOIL SCIENTIST PRIOR TO ITS INSTALLATION.
- 2. SOD INSTALLATION A. DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL, LIGHTLY IRRIGATE THE SUBSOIL IMMEDIATELY PRIOR TO LAYING THE SOD.
- B. LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO IT AND TIGHTLY WEDGED AGAINST EACH OTHER. STAGGER LATERAL JOINTS TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. ENSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE AIR DRYING OF THE ROOTS.
- WHEREVER POSSIBLE, LAY SOD WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH STAGGERING JOINTS. ROLL AND TAMP, PEG OR OTHERWISE SECURE THE SOD TO PREVENT SLIPPAGE ON SLOPES. ENSURE SOLID CONTACT EXISTS BETWEEN SOD ROOTS AND THE UNDERLYING SOIL SURFACE.
- WATER THE SOD IMMEDIATELY FOLLOWING ROLLING AND TAMPING UNTIL THE UNDERSIDE OF THE NEW SOD PAD AND SOIL SURFACE BELOW THE SOD ARE THOROUGHLY WET. COMPLETE THE OPERATIONS OF LAYING, TAMPING AND IRRIGATING FOR ANY PIECE OF SOD WITHIN EIGHT HOURS. 3. SOD MAINTENANCE
- A. IN THE ABSENCE OF ADEQUATE RAINFALL, WATER DAILY DURING THE FIRST WEEK OR AS OFTEN AND SUFFICIENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF 4 INCHES. WATER SOD DURING
- THE HEAT OF THE DAY TO PREVENT WILTING. AFTER THE FIRST WEEK, SOD WATERING IS REQUIRED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE CONTENT.
- DO NOT MOW UNTIL THE SOD IS FIRMLY ROOTED. NO MORE THAN 1/3 OF THE GRASS LEAF MUST BE REMOVED BY THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. MAINTAIN A GRASS HEIGHT OF AT LEAST 3 INCHES UNLESS OTHERWISE SPECIFIED.

TEMPORARY STOCKPILE NOTE

TEMPORARY STOCKPILES SHALL BE:

- 1. LOCATED WITHIN THE LIMIT OF DISTURBANCE (LOD).
- 2. DRAIN TO A FUNCTIONING SEDIMENT CONTROL DEVICE.
- 3. POSITIONED TO NOT IMPEDE UPON, OR IMPAIR THE FUNCTION OF SAID DEVICES.
- 4. POSITIONED TO NOT ALTER DRAINAGE DIVIDES.

STANDARD STABILIZATION NOTE

FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND SEVEN (7) DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

SAME DAY STABILIZATION NOTE

THE WORK IN THIS AREA SHALL BE DONE USING THE METHOD OF "SAME DAY STABILIZATION". NO MORE AREA SHALL BE DISTURBED THAN CAN BE STABILIZED BY THE END OF THE WORKDAY. ALL DISTURBED AREAS THAT DO NOT DRAIN TO A SEDIMENT CONTROL DEVICE SHALL BE STABILIZED AT THE END OF THE WORKDAY. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT UNLESS THE RUNOFF IS DIRECTED TO AN MDE APPROVED SEDIMENT CONTROL DEVICE.

STABILIZATION SHALL BE AS FOLLOWS:

- FOR AREAS TO BE PAVED : APPLICATION OF STONE SUBBASE.

- FOR AREAS TO BE VEGETATIVELY STABILIZED : PERMANENT SEED AND EROSION CONTROL MATTING FOR ALL SWALES/CHANNELS AND PERMANENT SEED AND MULCH FOR ALL OTHER AREAS.

MAINTENANCE OF SEDIMENT CONTROL

CONTRACTOR SHALL, WITHOUT EXTRA COST TO THE PROJECT, REPAIR AND MAINTAIN EXISTING SEDIMENT CONTROL DEVICES UNTIL ALL AREAS WITHIN LIMITS OF CONSTRUCTION ARE STABILIZED. ALL SEDIMENT CONTROL MEASURES REFERRED TO ON THESE PLANS SHALL BE IN ACCORDANCE WITH THE PUBLICATION ENTITLED 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL. EROSION AND SEDIMENT CONTROL WILL BE STRICTLY ENFORCED.

STANDARD ENFORCEMENT NOTE

NOTE TO CONTRACTOR: EROSION/SEDIMENT CONTROL WILL BE STRICTLY ENFORCED

SEQUENCE OF CONSTRUCTION

- 1. CONTACT REPRESENTATIVES OF UTILITY OWNERS AND MISS UTILITY AT 1-800-257-7777 AT LEAST THREE
- DAYS IN ADVANCE OF STARTING WORK SHOWN ON THE PLANS.
- 2. BEFORE PERFORMING ANY WORK, CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION FENCING AROUND ALL ACTIVE WORK AREAS TO RESTRICT ACCESS TO CONSTRUCTION OPERATIONS. ANY WALKS, ROADS, CURBS, ETC. OR ANY UTILITY OR STRUCTURE DAMAGED DURING CONSTRUCTION, NOT SCHEDULED FOR DEMOLITION, SHALL BE REPLACED IN KIND BY THE CONTRACTOR.
- 3. CONTRACTOR SHALL REDIRECT AND MAINTAIN PEDESTRIAN PATH ACCESS FROM THE MIDDLE STREET PATH DURING CONSTRUCTION.
- 4. CLEAR AND GRUB MINIMUM AREA REQUIRED FOR INSTALLATION OF THE PERIMETER SEDIMENT AND EROSION CONTROL MEASURES. INSTALL FILTER LOG AND TREE PROTECTION FENCING.
- CLEAR AND GRUB REMAINDER OF SITE.
- 6. BEGIN GRADING THE SITE AND REMOVAL OF EXISTING PERMEABLE PAVERS AND SUB-BASE AS DIRECTED ON THE PLANS. ALL SLOPES STEEPER THAN 5:1 SHALL BE STABILIZED WITH PERMANENT SEED AND SOIL STABILIZATION MATTING. CONTRACTOR SHALL INSPECT AND MAINTAIN ALL EROSION & SEDIMENT CONTROL MEASURES AND DEVICES AFTER EACH STORM EVENT. MAINTENANCE SHALL INCLUDE, BUT NOT LIMITED TO, REMOVAL OF ALL ACCUMULATED SEDIMENT.
- BEGIN CONSTRUCTION OF PROPOSED IMPROVEMENTS AS SHOWN ON THE PLANS. 8. AFTER PERMANENT STABILIZATION OF THE SITE WITH ESTABLISHED VEGETATION AND/OR PAVEMENT AND
- REMOVE EROSION AND SEDIMENT CONTROL MEASURES OR DEVICES AND STABILIZE THOSE AREAS DISTURBED BY THIS PROCESS.



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MARYLAND

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY ICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 42977,

REVISIONS

	#	DATE	DESCRIPTION	
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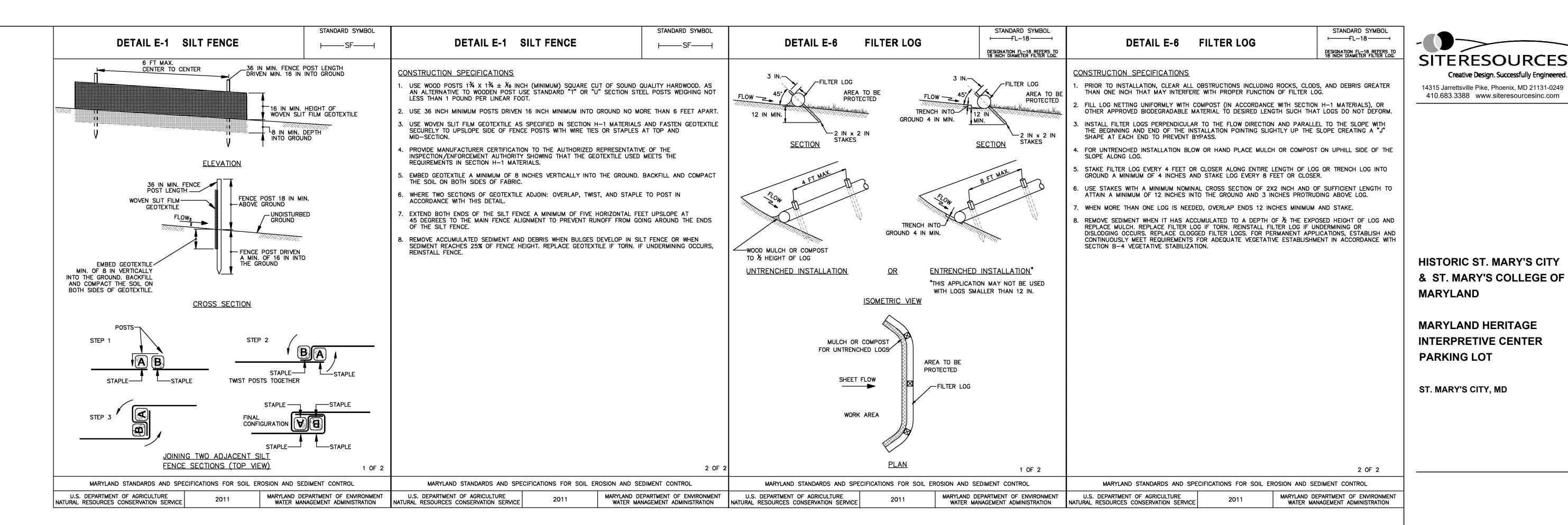
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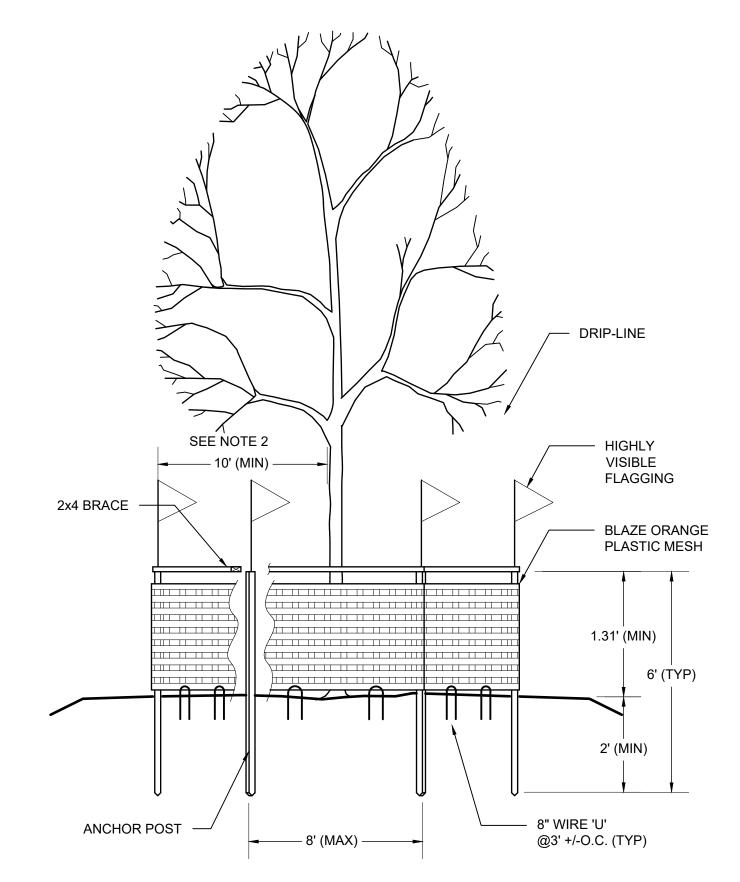
DRAWING NAME:

DATE: 12/09/2022 PROJECT #: 08038

SCALE: AS SHOWN

EROSION & SEDIMENT CONTROL NOTES





1. TREE PROTECTION FENCE SHALL BE BLAZE ORANGE PLASTIC MESH WITH ANCHOR POSTS. ANCHOR POSTS SHALL BE MINIMUM 2" STEEL 'U' CHANNEL OR 'T' POST, 6' IN LENGTH, SPACED 8' O.C. (MAXIMUM) MARKED WITH HIGHLY VISIBLE FLAGGING. ANCHOR POSTS MUST BE INSTALLED TO A DEPTH OF NO LESS THAN 1/3 OF THE TOTAL HEIGHT OF THE POST. USE 2" x 4" LUMBER FOR CROSS BRACING ALONG TOP OF FENCE. USE 8" WIRE 'U' TO SECURE FENCE BOTTOM.

2. PLACE FENCE AS SHOWN ON PLAN, AT DRIPLINE AROUND TREES WITH GREATER THAN 20' SPREAD. FOR SMALLER TREES, PLACE FENCE 10' (MINIMUM) FROM TRUNK.

3. ROOT DAMAGE SHOULD BE AVOIDED DURING INSTALLATION OF ANCHOR POSTS AND FENCE.

4. PLACE PROTECTION SIGNAGE IN ACCORDANCE WITH STAE AND LOCAL REQUIREMENTS.

5. NO CONSTRUCTION EQUIPMENT, MATERIALS, OR EXCAVATED EARTH PERMITTED INSIDE TREE

7. THIS FENCE IS A TREE PROTECTION DEVICE ONLY.

PROTECTION FENCES.

TREE PROTECTION FENCE

6. MAINTAIN TREE PROTECTION DEVICES THROUGHOUT CONSTRUCTION.

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EXPIRATION DATE: 06/07/2023.

REVISIONS						
	#	DATE	DESCRIPTION			

DRAWN BY: ZJR CHECKED BY: PCS

DATE: 12/09/2022 PROJECT #: 08038

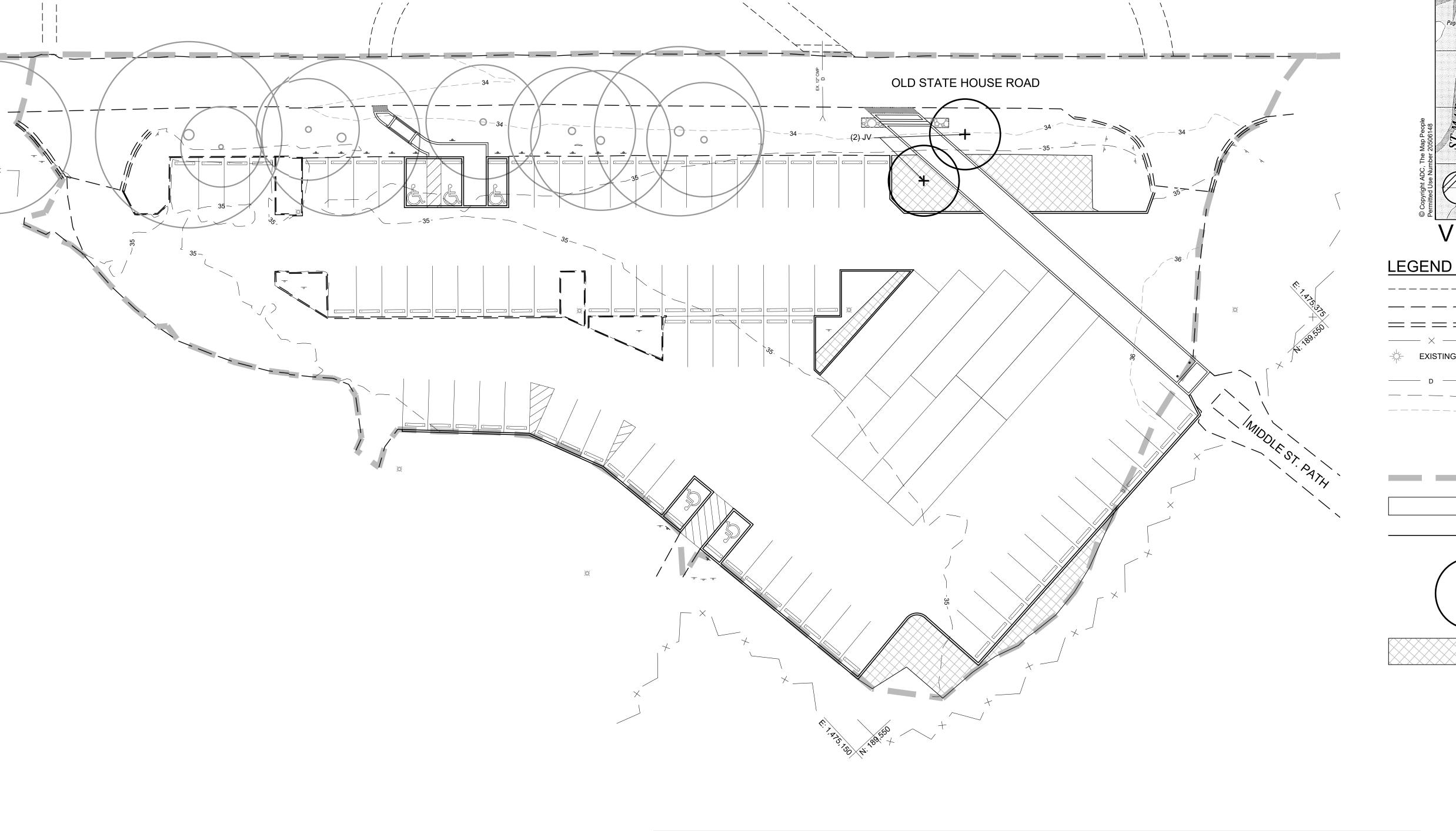
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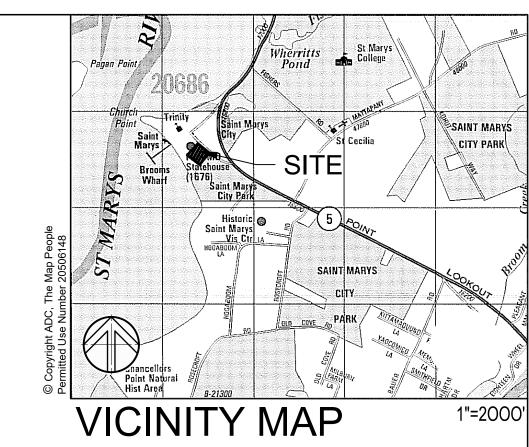
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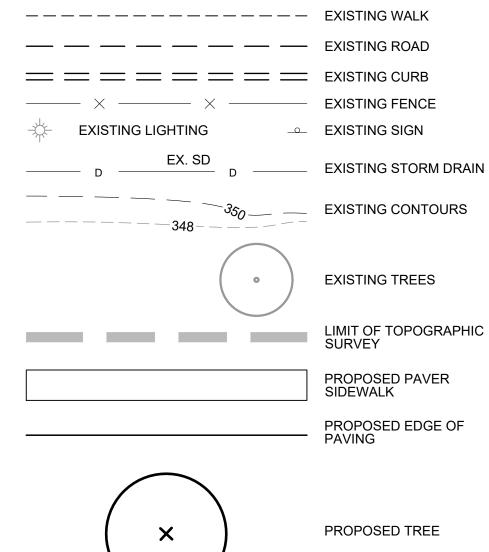
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DETAILS

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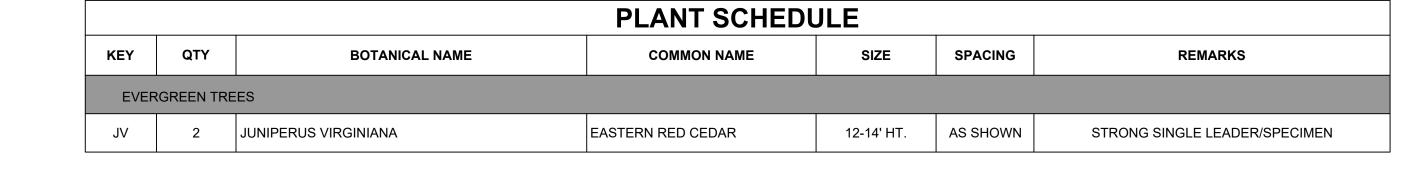
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DRAWING NO.:

DATE: 12/09/2022 PROJECT #: 08038

SCALE: AS SHOWN DRAWING NAME:

LANDSCAPE PLAN



KEEP MULCH 3" FROM TRUNK - CUT AND REMOVE BURLAP AND/OR WIRE BASKET TO

- GENERAL LANDSCAPE NOTES (THESE NOTES APPLY TO ALL PLANTING IN THIS CONTRACT)
- 1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACCURACY OF EXISTING AND UTILITY INFORMATION PROVIDED ON THE PLANS, AS WELL AS EXISTING SITE CONDITIONS PRIOR TO PLANTING. IF DISCREPANCIES ARE FOUND, THE CONTRACTOR SHALL IMMEDIATELY REPORT THE INCONSISTENCIES TO THE LANDSCAPE ARCHITECT.
- 2. THE CONTRACTOR SHALL CONTACT THE LOCAL UTILITY LOCATING SERVICE AS REQUIRED BY LAW PRIOR TO BEGINNING ANY PLANTING
- 3. QUANTITIES SHOWN ON THE PLANT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. PLANT SYMBOLS SHOWN ON THE PLANS TAKE PRECEDENCE OVER THE QUANTITIES NOTED. AS SUCH, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PLANTINGS AS
- 4. PLANT MATERIAL SUBSTITUTIONS WILL NOT BE ACCEPTABLE WITHOUT ADVANCE WRITTEN AUTHORIZATION FROM THE OWNER AND/OR
- LANDSCAPE ARCHITECT. MATERIAL PLANTED WITHOUT PRIOR APPROVAL WILL BE SUBJECT TO REJECTION.
- 5. REFER TO SPECIFICATION SECTION 329300 "PLANTS" FOR ADDITIONAL PLANTING REQUIREMENTS.
- BREAK DOWN SIDES OF PLANTING PIT WHEN BACKFILLING PLANTING MIX
- 1/3 COMPOSTED ORGANICS 1/3 SHARP SAND

1. THE CENTRAL LEADER SHALL NOT BE CUT. 2. CONTRACTOR SHALL LOOSEN ROOTS OF ALL

3. CONTRACTOR SHALL SCARIFY SIDES OF

#10 GAUGE WIRE W/ BLACK RUBBER HOSE @ TRUNK (LEAVE SLACK IN WIRE TO ALLOW FREE

(2) EVENLY SPACED 2"X2" HARDWOOD STAKES

FIRST LATERAL ROOT FLUSH WITH FINISH

- 3" SOIL WELL TO HOLD WATER

SHOVEL CUT EDGE

FINISHED GRADE UNDISTURBED SOIL

← 1' MIN. —

← 1' MIN. →

EVERGREEN TREE DETAIL

GRADE; CLEANLY CUT ANY GIRDLING ROOTS

MIN. TOP 1/3 OF ROOT BALL - COMPLETELY REMOVE ALL NON-BIODEGRADABLE ROOT BALL COVERING

TREE PIT TO ELIMINATE SPADE GLAZING.

LATERAL GROWTH OF ROOTS.

MOVEMENT OF TRUNK)

CONTAINER GROWN MATERIAL TO ENCOURAGE

1/3 SOIL FROM HOLE GENTLY COMPACT & WATER TO ELIMINATE LARGE AIR POCKETS — TAMP TO PREVENT SETTLING