B-4-2 STANDARDS AND SPECIFICATIONS

FOR

SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

Definition

The process of preparing the soils to sustain adequate vegetative stabilization.

Purpose

To provide a suitable soil medium for vegetative growth.

Conditions Where Practice Applies

Where vegetative stabilization is to be established.

Criteria

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.
   b. Apply fertilizer and lime as prescribed on the plans.
   c. Incorporate lime and fertilizer into the top 3 to 5 inches of soil by disking or other suitable means.
2. 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:
      i. Soil pH between 6.0 and 7.0.
      ii. Soluble salts less than 500 parts per million (ppm).
      iii. 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.
      iv. Soil contains 1.5 percent minimum organic matter by weight.
      v. Soil contains sufficient pore space to permit adequate root penetration.
   b. Application of amendments or topsoil is required if on-site soils do not meet the above conditions.
   c. 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.
   d. 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

1. 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.
2. 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.
   b. 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.
   d. The soil is so acidic that treatment with limestone is not feasible.
4. Areas having slopes steeper than 2:1 require special consideration and design.
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 1½ inches in diameter.
   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.
   c. 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
   a. Erosion and sediment control practices must be maintained when applying topsoil.
   b. 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.
   c. 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

B-4-3 STANDARDS AND SPECIFICATIONS

FOR

SEEDING AND MULCHING

Definition

The application of seed and mulch to establish vegetative cover.

Purpose

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.

Criteria

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.
   b. 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.
   c. 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.
   d. 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.
      i. 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.
      ii. 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.
   b. Drill or Cultipacker Seeding: Mechanized seeders that apply and cover seed with soil.
      i. 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.
      ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction.
   c. 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; P_2O_5 (phosphorous), 200 pounds per acre; K_2O (potassium), 200 pounds per acre.
      ii. 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 soil.

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.**
   b. Wood Cellulose Fiber Mulch (WCFM) consisting of specially prepared wood cellulose processed into a uniform fibrous physical state.
      i. 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 slurry.
      ii. 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.
      iv. WCFM material must not contain elements or compounds at concentration levels that will be phyto-toxic.
      v. 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.
   b. 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.
   c. 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.
3. 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:
      i. 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.
      ii. 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.
      iii. 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**.
      iv. 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.

PERMANENT SEEDING SUMMARY

SEED MIXTURE (HARDINESS ZONE 7A) (FROM TABLE 25)					FERTILIZER RATE (10-20-20)			LIME RATE
NO.	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS	N	P205	K20	
3	TALL FESCUE (85%) PERENNIAL RYEGRASS (10%), KENTUCKY BLUEGRASS (5%)	125 15 10	3/1 - 5/15 8/15 - 11/15	1/4" - 1/2"	45 LB/AC (1.0 LB/1000 SF)	90 LB/AC (2 LB/1000 SF)	90 LB/AC (2 LB/1000 SF)	2 TONS/AC (90 LB/1000 SF)
N/A	TEMPORARY SEEDING	SEE TEMP. SEED. SUMMARY	11/15 -11/30	SEE TEMP SEED SUMMARY	SEE TEMP SEED SUMMARY	SEE TEMP SEED SUMMARY	SEE TEMP SEED SUMMARY	SEE TEMP SEED SUMMARY
N/A	MULCH	SEE MULCH SPEC	12/1 -1/31	SEE MULCH SPEC	N/A	N/A	N/A	N/A

TREE BRANCH PRUNNING

TREE BRANCH PRUNNING SHALL BE PERFORMED OR DIRECTLY SUPERVISED BY A MARYLAND LICENSED TREE EXPERT IN CONFORMANCE WITH ANSI A300 STANDARDS PER SECTION 712 AS MECESSARY FOR ANY OF THE FOLLOWING:

1. TO INSTALL TEMPORARY ORANGE CONSTRUCTION FENCE (TOCF) ALONG DELINEATIONS ON PLANS.
2. TO PERFORM TREE ROOT PRUNING ALONG DELINEATIONS ON PLANS.
3. TO PROVIDE 8 – 10 FOOT CLEARANCE ABOVE SIDEWALK PAVEMENTS AND 16 FOOT CLEARANCE ABOVE ROADWAY PAVEMENTS.
4. TO REPAIR TREE WOUNDS.
5. TO PERFORM OTHER RECOMMENDED CLEANING, THINNING, REDUCING AND PRANING NECESSARY TO ACOMODATE UTILITIES AND CONSTRUCTION.

TREE PRESERVATION AREA

TEMPORARY ORANGE CONSTRUCTION FENCE (TOCF) SHALL BE INSTALLED IN LOCATIONS DELINEATED ON THE PLANS IN CONFORMANCE WITH SECTION 120 OF THE SHA SPECIFICATIONS TO PROTECT EXISTING TREES AND OTHER VEGETATION DURING CONSTRUCTION. AREAS WITHIN THE TOCF SHALL BE PROTECTED FROM ALL AREAS WITHIN THE TPCF SHALL BE PROTECTED FROM ALL PROHIBITED AND RESTRICTED ACTIVITIES AS SPECIFIED IN SECTION 120.

TREE ROOT PRUNING

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.

	QUANTITY
TREE PROTECTION FENCE	15 TREES
TREE BRANCH PRUNING	15 TREES
TREE ROOT PRUNING	15 TREES
TREE BROADCAST FERTILIZER PER TREE	1500 S.F. (500 S.Y.)

NOTES:

1. PLAN SHEET DEPICTS APPROXIMATE LOCATION OF PLANTINGS.
2. THE LIMIT OF DISTURBANCE IS SHOWN FOR INFORMATION ONLY. THE PROPOSED PLANTINGS ARE FOR THE PURPOSE OF CRITICAL AREA COMMISSION MITIGATION AND DOES NOT REPRESENT ADDITIONAL AREA REQUIRING STORMWATER MANAGEMENT MITIGTION.
3. PHRAGMITE DELINEATION AND REMOVAL BY OTHERS. WETLAND DISTURBING / VEGATATION REMOVAL
4. TPF - TO BE EXTENDED OUT TO TMP LINE
5. TREE ROOT PRUNING TO BE COMPLETED PRIOR TO CONSTRUCTION AS NEEDED, ALONG LINE OF TREE PROTECTION FENCE.

ST. MARY'S COLLEGE OF MARYLAND

ST. MARY'S COLLEGE OF MARYLAND PEDESTRIAN AND BICYCLE TRAIL PROJECT

McCORMICK TAYLOR
509 South Exeter Street
4th Floor
Baltimore, Maryland 21202
(410) 662-7400

LEGEND

- TURFGRASS ESTABLISHMENT
- BOARDWALK
- POROUS ASPHALT TRAIL (NON-STAMP)
- TPF — TREE PROTECTION FENCE
- TREE REMOVAL
- TIDALLY INFLUENCED AND NON TIDAL WETLANDS

0 10 20 40
SCALE: 1" = 20'

CROSS REFERENCE

ITEM	SHEET NOs.
ABBREVIATIONS /GENERAL NOTES /TYPICAL SECTIONS SHEETS,	2-3
PAVEMENT, SIDEWALK, & DRIVEWAY DETAIL SHEETS	4-6
GEOMETRY SHEET	7
TRAIL PLAN & TRAIL PROFILE SHEETS	8-17
DRAINAGE DESIGN PROFILE SHEETS	18-19
MISC. QUANTITY, STORMWATER DETAIL, & AS-BUILST SHEETS,	20-22
EROSION AND SEDIMENT CONTROL NOTES, DETAILS, & PLANS,	23-40
SIGNING AND PAVEMENT MARKING SHEET	41
MAINTENANCE OF TRAFFIC NOTES SHEET	42
BRIDGE, STRUCTURE & BORING SHEETS	43-51
LANDSCAPE PLAN SHEETS & DETAIL SHEET	52-57
LIGHTING PLAN SHEETS	58-62

R /W PLAT NUMBER

REVISIONS

LANDSCAPE PLAN DETAILS

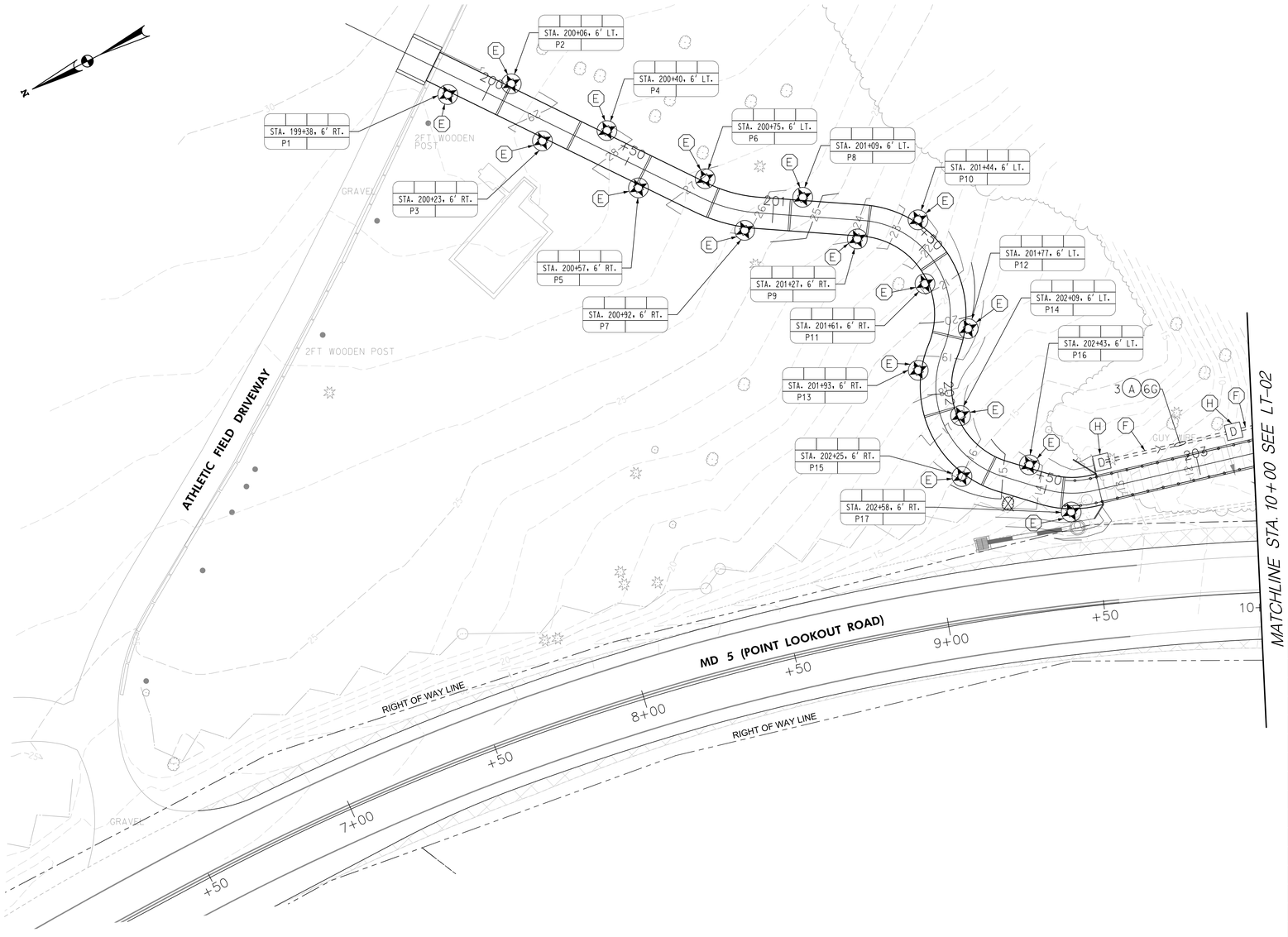
SCALE 1" = 20' ADVERTISED DATE DEC 2021 CONTRACT NO. SM193B51

DESIGNED BY KKM COUNTY ST. MARY'S
DRAWN BY PNK LOGMILE 11.19 TO 11.59
CHECKED BY ABA HORIZONTAL SCALE N/A
MDE/PRD SEE TITLE SHEET VERTICAL SCALE N/A

DRAWING NO. LD-06 OF LD-06 SHEET NO. 57 OF 62

BY: ggwissman –

PLOTTED: Friday, November 05, 2021 AT 10:15 AM
FILE: I:\5370 – St. Mary's College\01 – MD 5 – St Mary's College\Design\Engineering\PlanSet\Tepp\Tepp Planset\pLD-D001-MD5_Tepp.dgn



LIGHTING LEGEND

- (A) ELECTRICAL CABLE 1-CONDUCTOR NO. 6 AWG-RHW
- (B) ELECTRICAL CABLE 1-CONDUCTOR NO. 2 AWG-USE
- (6G) NO 6 AWG STRANDED BARE COPPER GROUND WIRE
- BOLLARD WITH SOLAR-POWERED LED LIGHT CAP, WITH CONCRETE FOUNDATION
- ELA LIGHTING ATS/19 POST TOP LUMINAIRE WITH 40 WATT LED (TYPE V5 OPTICS); MOUNTED ON ELA ROUND TAPERED 12 FOOT FLUTED POLE, P3050H12.
- ELA LIGHTING ATS/22 POST TOP LUMINAIRE WITH 150 WATT HPS (TYPE H5 OPTICS); MOUNTED ON ELA ROUND TAPERED 18 FOOT FLUTED POLE, P3052. WITH 2-36 IN. BREAKAWAY BANNER ARMS WITH BALL FINIAL AND 1" BREAKAWAY STEEL ANCHOR BOLTS.
- EXISTING PENDANT LUMINAIRE (UTILITY POLE MOUNTED) TO REMAIN
- EXISTING PENDANT LUMINAIRE (LIGHT POLE MOUNTED) TO REMAIN
- (R) EXISTING POST MOUNTED LANTERN AND POLE TO BE REMOVED
- EXISTING PENDANT LUMINAIRE (UTILITY POLE MOUNTED) TO BE REMOVED
- [H] PROPOSED ELECTRICAL HANDHOLE
- [D] PROPOSED BOARDWALK MOUNTED WEATHERPROOF JUNCTION BOX SIZED TO CONTAIN LED DRIVER(S) AND WIRING SPLICES FOR LED LINEAR LIGHTING.
- [P] PROPOSED METERED SERVICE PEDESTAL AND LIGHTING CONTROL CABINET
- PROPOSED GROUND ROD
- DIRECTION OF CIRCUIT FLOW

1 (A) (6G)
- GROUND WIRE DESIGNATION
- DUCT WIRE DESIGNATION
- TOTAL NUMBER OF CABLES IN CONDUIT

HH #
TYPE I | TYPE IV
- HANDHOLE ID NO.
- QUANTITY OF CONNECTOR KITS

TYPE I | TYPE II | TYPE III | TYPE IV
STATION & OFFSET
POLE NO. | CIRCUIT NO.
- QUANTITY OF CONNECTOR KITS

POLE NUMBER	POLE HEIGHT	LUMINAIRE WATTAGE	TYPE OF BASE
1	3'	–	NON-BREAKAWAY
2	3'	–	NON-BREAKAWAY
3	3'	–	NON-BREAKAWAY
4	3'	–	NON-BREAKAWAY
5	3'	–	NON-BREAKAWAY
6	3'	–	NON-BREAKAWAY
7	3'	–	NON-BREAKAWAY
8	3'	–	NON-BREAKAWAY
9	3'	–	NON-BREAKAWAY
10	3'	–	NON-BREAKAWAY
11	3'	–	NON-BREAKAWAY
12	3'	–	NON-BREAKAWAY
13	3'	–	NON-BREAKAWAY
14	3'	–	NON-BREAKAWAY
15	3'	–	NON-BREAKAWAY
16	3'	–	NON-BREAKAWAY
17	3'	–	NON-BREAKAWAY

SOLAR-POWERED LIGHT BOLLARD

STATION	EA	REMARKS
199+38 TO 202+58	17	

ELECTRICAL CABLE, 1-COND. NO. 6 AWG - RHW

STATION	LF	REMARKS
202+70 TO 203+18	225	

NO. 6 AWG STRANDED BARE COPPER GND. WIRE

STATION	LF	REMARKS
202+70 TO 203+18	75	

1-1/2 INCH SCHD. 80 PVC CONDUIT - EXPOSED, WITH THERMAL EXPANSION COUPLINGS

STATION	LF	REMARKS
202+70 TO 203+18	50	BOARDWALK

JUNCTION BOX, BOARDWALK MOUNTED

STATION	EA	REMARKS
202+78 TO 203+13	2	

NOTE:
1. CONTRACTOR SHALL ADJUST UNDERDRAIN LOCATION WHERE PROPOSED LIGHT POSTS ARE TO BE INSTALLED.
2. ITEM QUANTITIES ARE FOR INFORMATION ONLY.

0 10 20 40
SCALE: 1" = 20'

GEOMETRIC LEGEND
- EXISTING
- PROPOSED

UTILITY LEGEND
- STORM DRAIN
- G GAS MAIN
- W WATER MAIN
- SAN SEWER MAIN
- E ELECTRIC CABLES
- A AERIAL CABLES
- T TELEPHONE CABLES
- FO FIBER-OPTIC

CONSTRUCTION DETAILS

A. INSTALL 12 FT. FLUTED POLE, POLE BASE AND FOUNDATION WITH DECORATIVE 40 WATT LED POST TOP MOUNTED LUMINAIRE (INSTALL 2-2 INCH PVC 90-DEGREE BENDS).
B. REMOVE EXISTING PENDANT LUMINAIRE FROM UTILITY POLE.
C. INSTALL 100 AMP 120/240 VOLT METERED SERVICE PEDESTAL AND LIGHTING CONTROL CABINET WITH INTERGAL PHOTO ELECTRIC CONTROL.
D. EXISTING POST MOUNTED LUMINAIRE TO REMAIN.
E. INSTALL SOLAR POWERED LIGHT BOLLARD AND FOUNDATION.
F. INSTALL 1 1/2 IN. SCHEDULE 80 PVC CONDUIT (MOUNTED ON STRUCTURE). PROVIDE THERMAL EXPANSION COUPLINGS PER NATIONAL ELECTRICAL CODE REQUIREMENTS.
G. INSTALL 18 FT. FLUTED POLE, POLE BASE, FOUNDATION, AND BANNER ARMS WITH DECORATIVE 150 WATT HPS POST TOP MOUNTED LUMINAIRE (INSTALL 2-2 INCH PVC 90-DEGREE BENDS).
H. INSTALL BOARDWALK MOUNTED JUNCTION BOX.
I. REPLACE POST TOP LUMINAIRE ON EXISTING POLE WITH LED LUMINAIRE.
J. INSTALL 3 IN. SCHEDULE 80 PVC CONDUIT (TRENCHED) FOR PROPOSED ELECTRICAL SERVICE. CAP AND MARK CONDUIT 2 FT. ABOVE GRADE AT SMECO UTLITY POLE FOR USE BY OTHERS.
K. INSTALL 3 IN. SCHEDULE 80 PVC CONDUIT (TRENCHED).
L. INSTALL 2 IN. SCHEDULE 80 PVC CONDUIT (TRENCHED).
M. INSTALL 4 IN. SCHEDULE 80 PVC CONDUIT (BORED).
N. INSTALL ELECTRICAL HANDHOLE.

BOARDWALK LINEAR LED LIGHTING SYSTEM NOTES

1. THE LINEAR LIGHTING SYSTEM SHALL BE INSTALLED UNDER THE EAST SIDE OF BOARDWALK HANDRAIL.
2. THE LIGHTING SYSTEM SHALL BE A CONTINUOUS RUN WITH NO BREAKS BETWEEN SECTIONS OF LINEAR LED STRIPS.
3. LED DRIVERS SHALL BE MOUNTED IN WEATHERPROOF JUNCTION BOXES AT APPROXIMATELY 60 FT SPACING.
5. JUNCTION BOXES AND CONDUIT SHOULD BE MOUNTED OUTSIDE OR UNDER THE BOARDWALK WALKWAY AND SHOULD BE CONCEALED TO PRESERVE THE AESTHETIC NATURE OF THE TIMBER FRAMED BOARDWALK.
6. ACCESS TO ALL JUNCTION BOXES SHALL BE PROVIDED FROM THE BOARDWALK WALKWAY FOR SERVICING LED DRIVER UNITS AND WIRING SPLICES.

McCORMICK TAYLOR
509 South Exeter Street
4th Floor
Baltimore, Maryland 21202
(410) 662-7400

BY: ggwissman –

APPROVALS
- TEAM LEADER
- ASST. DIV. CHIEF
- DIVISION CHIEF
- OFFICE DIRECTOR

REVISIONS

ST. MARY'S COLLEGE OF MARYLAND

ST. MARY'S COLLEGE OF MARYLAND PEDESTRIAN AND BICYCLE TRAIL PROJECT

LIGHTING PLAN

SCALE 1" = 20' ADVERTISED DATE DEC 2021 CONTRACT NO. SM193B51

DESIGNED BY CAG
DRAWN BY CJG
CHECKED BY BSH
MDE/PRD SEE TITLE SHEET
COUNTY ST. MARY'S
LOGMILE 11.19 TO 11.59
T.I.M.S. NO. PENDING
TOD NO.

DRAWING NO. LT-01 OF LT-05
SHEET NO. 58 OF 62

PLOTTED: Friday, November 05, 2021 AT 10:16 AM
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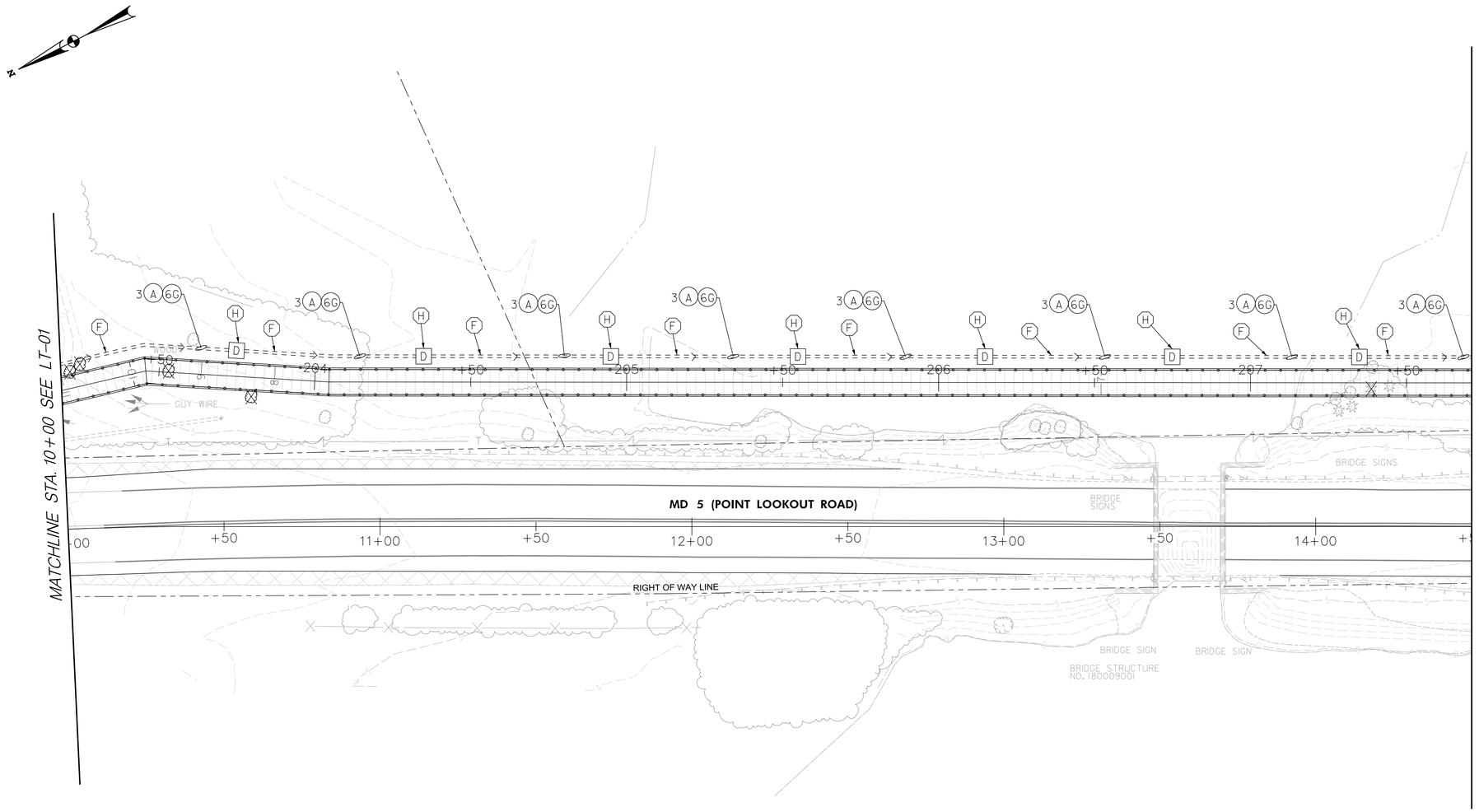

LIGHTING LEGEND

- (A) ELECTRICAL CABLE 1-CONDUCTOR NO. 6 AWG-RHW
- (B) ELECTRICAL CABLE 1-CONDUCTOR NO. 2 AWG-USE
- (6G) NO 6 AWG STRANDED BARE COPPER GROUND WIRE
- BOLLARD WITH SOLAR-POWERED LED LIGHT CAP, WITH CONCRETE FOUNDATION
- ELA LIGHTING ATS/19 POST TOP LUMINAIRE WITH 40 WATT LED (TYPE V5 OPTICS); MOUNTED ON ELA ROUND TAPERED 12 FOOT FLUTED POLE, P3050H12.
- ELA LIGHTING ATS/22 POST TOP LUMINAIRE WITH 150 WATT HPS (TYPE H5 OPTICS); MOUNTED ON ELA ROUND TAPERED 18 FOOT FLUTED POLE, P3052. WITH 2-36 IN. BREAKAWAY BANNER ARMS WITH BALL FINIAL AND 1" BREAKAWAY STEEL ANCHOR BOLTS.
- (LU) EXISTING PENDANT LUMINAIRE (UTILITY POLE MOUNTED) TO REMAIN
- (LU) EXISTING PENDANT LUMINAIRE (LIGHT POLE MOUNTED) TO REMAIN
- (R) EXISTING POST MOUNTED LANTERN AND POLE TO BE REMOVED
- (LU) EXISTING PENDANT LUMINAIRE (UTILITY POLE MOUNTED) TO BE REMOVED
- [H] PROPOSED ELECTRICAL HANDHOLE
- [D] PROPOSED BOARDWALK MOUNTED WEATHERPROOF JUNCTION BOX SIZED TO CONTAIN LED DRIVER(S) AND WIRING SPLICES FOR LED LINEAR LIGHTING.
- [P] PROPOSED METERED SERVICE PEDESTAL AND LIGHTING CONTROL CABINET
- PROPOSED GROUND ROD
- DIRECTION OF CIRCUIT FLOW

1 (A) (6G)
- GROUND WIRE DESIGNATION
- DUCT WIRE DESIGNATION
- TOTAL NUMBER OF CABLES IN CONDUIT

HH # | TYPE I | TYPE IV
- HANDHOLE ID NO.
- QUANTITY OF CONNECTOR KITS

TYPE I | TYPE II | TYPE III | TYPE IV
STATION & OFFSET
POLE NO. | CIRCUIT NO.
- QUANTITY OF CONNECTOR KITS

ELECTRICAL CABLE, 1-COND. NO. 6 AWG - RHW

STATION	LF	REMARKS
203+13 TO 207+71	1750	

NO. 6 AWG STRANDED BARE COPPER GND. WIRE

STATION	LF	REMARKS
203+13 TO 207+71	575	

1-1/2 INCH SCHD. 80 PVC CONDUIT - EXPOSED, WITH THERMAL EXPANSION COUPLINGS

STATION	LF	REMARKS
203+13 TO 207+71	475	BOARDWALK

JUNCTION BOX, BOARDWALK MOUNTED

STATION	EA	REMARKS
203+13 TO 207+71	7	

0 10 20 40
SCALE: 1" = 20'

GEOMETRIC LEGEND
- EXISTING
- PROPOSED

UTILITY LEGEND
- STORM DRAIN
- G GAS MAIN
- W WATER MAIN
- SAN SEWER MAIN
- E ELECTRIC CABLES
- A AERIAL CABLES
- T TELEPHONE CABLES
- FO FIBER-OPTIC

CONSTRUCTION DETAILS

A. INSTALL 12 FT. FLUTED POLE, POLE BASE AND FOUNDATION WITH DECORATIVE 40 WATT LED POST TOP MOUNTED LUMINAIRE (INSTALL 2-2 INCH PVC 90-DEGREE BENDS).

B. REMOVE EXISTING PENDANT LUMINAIRE FROM UTILITY POLE.

C. INSTALL 100 AMP 120/240 VOLT METERED SERVICE PEDESTAL AND LIGHTING CONTROL CABINET WITH INTERGAL PHOTO ELECTRIC CONTROL.

D. EXISTING POST MOUNTED LUMINAIRE TO REMAIN.

E. INSTALL SOLAR POWERED LIGHT BOLLARD AND FOUNDATION.

F. INSTALL 1 1/2 IN. SCHEDULE 80 PVC CONDUIT (MOUNTED ON STRUCTURE). PROVIDE THERMAL EXPANSION COUPLINGS PER NATIONAL ELECTRICAL CODE REQUIREMENTS.

G. INSTALL 18 FT. FLUTED POLE, POLE BASE, FOUNDATION, AND BANNER ARMS WITH DECORATIVE 150 WATT HPS POST TOP MOUNTED LUMINAIRE (INSTALL 2-2 INCH PVC 90-DEGREE BENDS).

H. INSTALL BOARDWALK MOUNTED JUNCTION BOX.

I. REPLACE POST TOP LUMINAIRE ON EXISTING POLE WITH LED LUMINAIRE.

J. INSTALL 3 IN. SCHEDULE 80 PVC CONDUIT (TRENCHED) FOR PROPOSED ELECTRICAL SERVICE. CAP AND MARK CONDUIT 2 FT. ABOVE GRADE AT SMECO UTLITY POLE FOR USE BY OTHERS.

K. INSTALL 3 IN. SCHEDULE 80 PVC CONDUIT (TRENCHED).

L. INSTALL 2 IN. SCHEDULE 80 PVC CONDUIT (TRENCHED).

M. INSTALL 4 IN. SCHEDULE 80 PVC CONDUIT (BORED).

N. INSTALL ELECTRICAL HANDHOLE.

BOARDWALK LINEAR LED LIGHTING SYSTEM NOTES

1. THE LINEAR LIGHTING SYSTEM SHALL BE INSTALLED UNDER THE EAST SIDE OF BOARDWALK HANDRAIL.
2. THE LIGHTING SYSTEM SHALL BE A CONTINUOUS RUN WITH NO BREAKS BETWEEN SECTIONS OF LINEAR LED STRIPS.
3. LED DRIVERS SHALL BE MOUNTED IN WEATHERPROOF JUNCTION BOXES AT APPROXIMATELY 60 FT SPACING.
5. JUNCTION BOXES AND CONDUIT SHOULD BE MOUNTED OUTSIDE OR UNDER THE BOARDWALK WALKWAY AND SHOULD BE CONCEALED TO PRESERVE THE AESTHETIC NATURE OF THE TIMBER FRAMED BOARDWALK.
6. ACCESS TO ALL JUNCTION BOXES SHALL BE PROVIDED FROM THE BOARDWALK WALKWAY FOR SERVICING LED DRIVER UNITS AND WIRING SPLICES.

NOTE:
1. CONTRACTOR SHALL ADJUST UNDERDRAIN LOCATION WHERE PROPOSED LIGHT POSTS ARE TO BE INSTALLED.
2. ITEM QUANTITIES ARE FOR INFORMATION ONLY.

McCORMICK TAYLOR
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ST. MARY'S COLLEGE OF MARYLAND

ST. MARY'S COLLEGE OF MARYLAND PEDESTRIAN AND BICYCLE TRAIL PROJECT

LIGHTING PLAN

SCALE 1" = 20' ADVERTISED DATE DEC 2021 CONTRACT NO. SM193B51

DESIGNED BY CAG
DRAWN BY CJG
CHECKED BY BSH
MDE/PRD SEE TITLE SHEET

COUNTY ST. MARY'S
LOGMILE 11.19 TO 11.59
T.I.M.S. NO. PENDING
TOD NO.

DRAWING NO. LT-02 OF LT-05
SHEET NO. 59 OF 62

BY: ggwissman –

PLOTTED: Friday, November 05, 2021 AT 10:16 AM
FILE: \\baserver\Projects\5370 – St. Mary's College\01 – MD 5 – St Mary's College\Design\Engineering\PlanSet\Tepp\Tepp Planset\pLT-P002-MD5_Tepp.dgn

40W LED POST TOP LUMINAIRE, 12 FT POLE		
STATION	EA	REMARKS
211+82	1	

CONCRETE FOR LIGHT FOUNDATION		
STATION	CY	REMARKS
211+82	0.5	

ELECTRICAL CABLE, 1-COND. NO. 6 AWG - RHW		
STATION	LF	REMARKS
207+71 TO 212+22	1850	

NO. 6 AWG STRANDED BARE COPPER GND. WIRE		
STATION	LF	REMARKS
207+71 TO 212+22	625	

3/4" X 10 FT GROUND ROD		
STATION	EA	REMARKS
211+82	1	

CONNECTOR KITS		
STATION	EA	REMARKS
211+82	1	TYPE I
	1	TYPE II
		TYPE III
		TYPE IV

1-1/2 INCH SCHD. 80 PVC CONDUIT - EXPOSED, WITH THERMAL EXPANSION COUPLINGS		
STATION	LF	REMARKS
207+71 TO 210+61	250	BOARDWALK

JUNCTION BOX, BOARDWALK MOUNTED		
STATION	EA	REMARKS
207+71 TO 210+42	5	

2 INCH SCHD. 80 PVC CONDUIT - TRENCHED		
STATION	LF	REMARKS
210+97 TO 212+22	375	

4 INCH SCHD. 80 PVC CONDUIT - BORED		
STATION	LF	REMARKS
210+61 TO 210+97	50	

ELECTRIC HANDHOLE (MD 811.01-03)		
STATION	EA	REMARKS
210+61 AND 210+97	2	

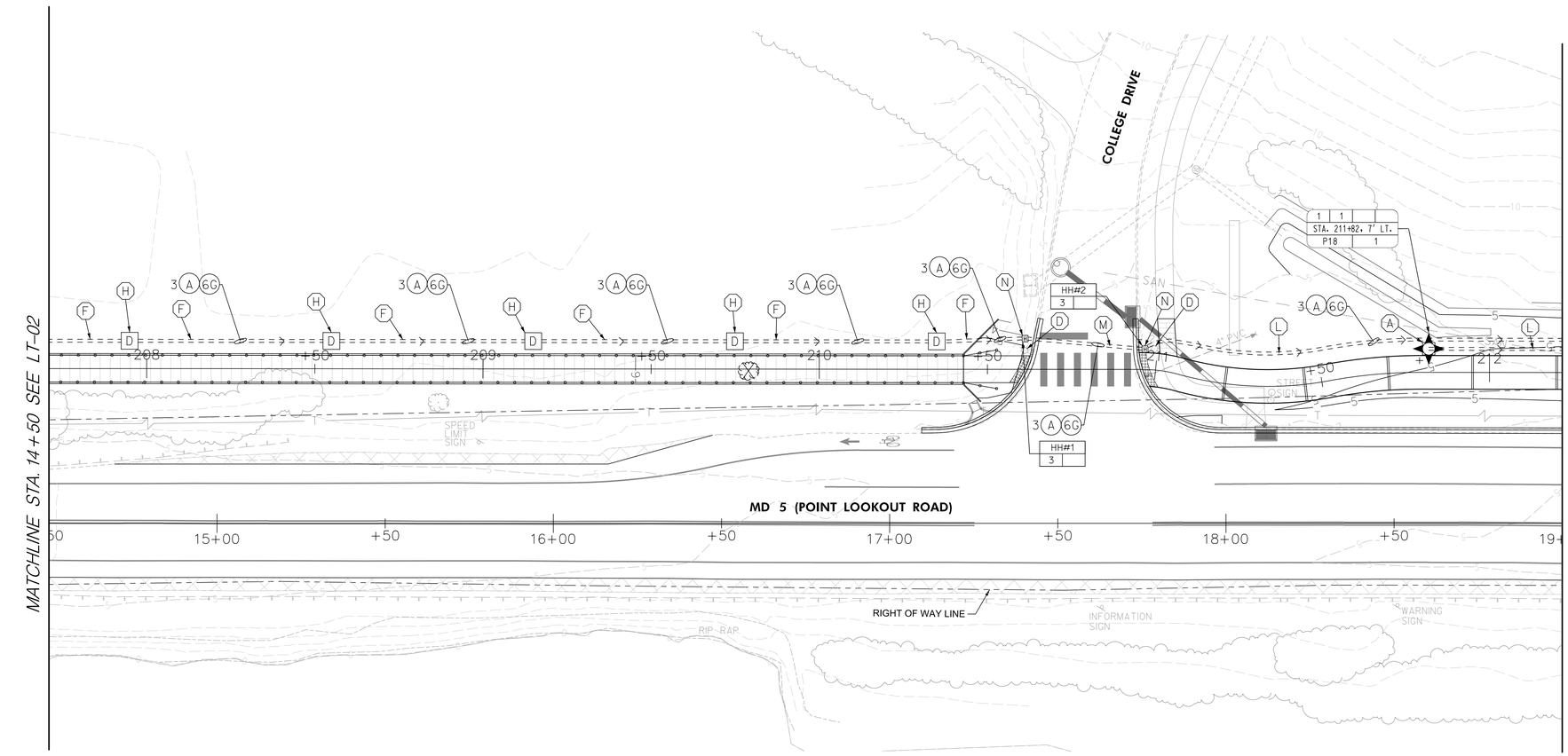
LIGHTING LEGEND

- (A) ELECTRICAL CABLE 1-CONDUCTOR NO. 6 AWG-RHW
- (B) ELECTRICAL CABLE 1-CONDUCTOR NO. 2 AWG-USE
- (6G) NO 6 AWG STRANDED BARE COPPER GROUND WIRE
- BOLLARD WITH SOLAR-POWERED LED LIGHT CAP, WITH CONCRETE FOUNDATION
- ELA LIGHTING ATS/19 POST TOP LUMINAIRE WITH 40 WATT LED (TYPE V5 OPTICS); MOUNTED ON ELA ROUND TAPERED 12 FOOT FLUTED POLE, P3050H12.
- ELA LIGHTING ATS/22 POST TOP LUMINAIRE WITH 150 WATT HPS (TYPE H5 OPTICS); MOUNTED ON ELA ROUND TAPERED 18 FOOT FLUTED POLE, P3052. WITH 2-36 IN. BREAKAWAY BANNER ARMS WITH BALL FINIAL AND 1" BREAKAWAY STEEL ANCHOR BOLTS.
- (LL) EXISTING PENDANT LUMINAIRE (UTILITY POLE MOUNTED) TO REMAIN
- (LL) EXISTING PENDANT LUMINAIRE (LIGHT POLE MOUNTED) TO REMAIN
- (R) EXISTING POST MOUNTED LANTERN AND POLE TO BE REMOVED
- (LL) EXISTING PENDANT LUMINAIRE (UTILITY POLE MOUNTED) TO BE REMOVED
- [H] PROPOSED ELECTRICAL HANDHOLE
- [D] PROPOSED BOARDWALK MOUNTED WEATHERPROOF JUNCTION BOX SIZED TO CONTAIN LED DRIVER(S) AND WIRING SPLICES FOR LED LINEAR LIGHTING.
- [P] PROPOSED METERED SERVICE PEDESTAL AND LIGHTING CONTROL CABINET
- PROPOSED GROUND ROD
- DIRECTION OF CIRCUIT FLOW

1 (A 6G)
- GROUND WIRE DESIGNATION
- DUCT WIRE DESIGNATION
- TOTAL NUMBER OF CABLES IN CONDUIT

HH # | TYPE I | TYPE IV
- HANDHOLE ID NO.
- QUANTITY OF CONNECTOR KITS

TYPE I | TYPE II | TYPE III | TYPE IV
STATION & OFFSET
POLE NO. | CIRCUIT NO.
- QUANTITY OF CONNECTOR KITS



POLE NUMBER	POLE HEIGHT	LUMINAIRE WATTAGE	TYPE OF BASE
18	12'	40W/LED	NON-BREAKAWAY

0 10 20 40
SCALE: 1" = 20'

GEOMETRIC LEGEND
- EXISTING
- PROPOSED

UTILITY LEGEND
- STORM DRAIN
- G GAS MAIN
- W WATER MAIN
- SAN SEWER MAIN
- E ELECTRIC CABLES
- A AERIAL CABLES
- T TELEPHONE CABLES
- FO FIBER-OPTIC

CONSTRUCTION DETAILS

A. INSTALL 12 FT. FLUTED POLE, POLE BASE AND FOUNDATION WITH DECORATIVE 40 WATT LED POST TOP MOUNTED LUMINAIRE (INSTALL 2-2 INCH PVC 90-DEGREE BENDS).

B. REMOVE EXISTING PENDANT LUMINAIRE FROM UTILITY POLE.

C. INSTALL 100 AMP 120/240 VOLT METERED SERVICE PEDESTAL AND LIGHTING CONTROL CABINET WITH INTERGAL PHOTO ELECTRIC CONTROL.

D. EXISTING POST MOUNTED LUMINAIRE TO REMAIN.

E. INSTALL SOLAR POWERED LIGHT BOLLARD AND FOUNDATION.

F. INSTALL 1 1/2 IN. SCHEDULE 80 PVC CONDUIT (MOUNTED ON STRUCTURE). PROVIDE THERMAL EXPANSION COUPLINGS PER NATIONAL ELECTRICAL CODE REQUIREMENTS.

G. INSTALL 18 FT. FLUTED POLE, POLE BASE, FOUNDATION, AND BANNER ARMS WITH DECORATIVE 150 WATT HPS POST TOP MOUNTED LUMINAIRE (INSTALL 2-2 INCH PVC 90-DEGREE BENDS).

H. INSTALL BOARDWALK MOUNTED JUNCTION BOX.

I. REPLACE POST TOP LUMINAIRE ON EXISTING POLE WITH LED LUMINAIRE.

J. INSTALL 3 IN. SCHEDULE 80 PVC CONDUIT (TRENCHED) FOR PROPOSED ELECTRICAL SERVICE. CAP AND MARK CONDUIT 2 FT. ABOVE GRADE AT SMECO UTLITY POLE FOR USE BY OTHERS.

K. INSTALL 3 IN. SCHEDULE 80 PVC CONDUIT (TRENCHED).

L. INSTALL 2 IN. SCHEDULE 80 PVC CONDUIT (TRENCHED).

M. INSTALL 4 IN. SCHEDULE 80 PVC CONDUIT (BORED).

N. INSTALL ELECTRICAL HANDHOLE.

BOARDWALK LINEAR LED LIGHTING SYSTEM NOTES

1. THE LINEAR LIGHTING SYSTEM SHALL BE INSTALLED UNDER THE EAST SIDE OF BOARDWALK HANDRAIL.
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ST. MARY'S COLLEGE OF MARYLAND PEDESTRIAN AND BICYCLE TRAIL PROJECT

LIGHTING PLAN

SCALE 1" = 20' ADVERTISED DATE DEC 2021 CONTRACT NO. SM193B51

DESIGNED BY CAG
DRAWN BY CJG
CHECKED BY BSH
MDE/PRD SEE TITLE SHEET
COUNTY ST. MARY'S
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TOD NO.

DRAWING NO. LT-03 OF LT-05 SHEET NO. 60 OF 62

BY: ggwissman –

PLOTTED: Friday, November 05, 2021 AT 10:16 AM
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40W LED POST TOP LUMINAIRE, 12 FT POLE		
STATION	EA	REMARKS
212+86, 214+65, 215+45 & 216+23	4	

40W LED POST TOP LUMINAIRE, ON EXIST. POLE		
STATION	EA	REMARKS
213+89	1	

CONCRETE FOR LIGHT FOUNDATION		
STATION	CY	REMARKS
212+86, 214+65, 215+45 & 216+23	2	

ELECTRICAL CABLE, 1-COND. NO. 6 AWG - RHW		
STATION	LF	REMARKS
212+22 TO 216+90	2725	

NO. 6 AWG STRANDED BARE COPPER GND. WIRE		
STATION	LF	REMARKS
212+22 TO 216+90	925	

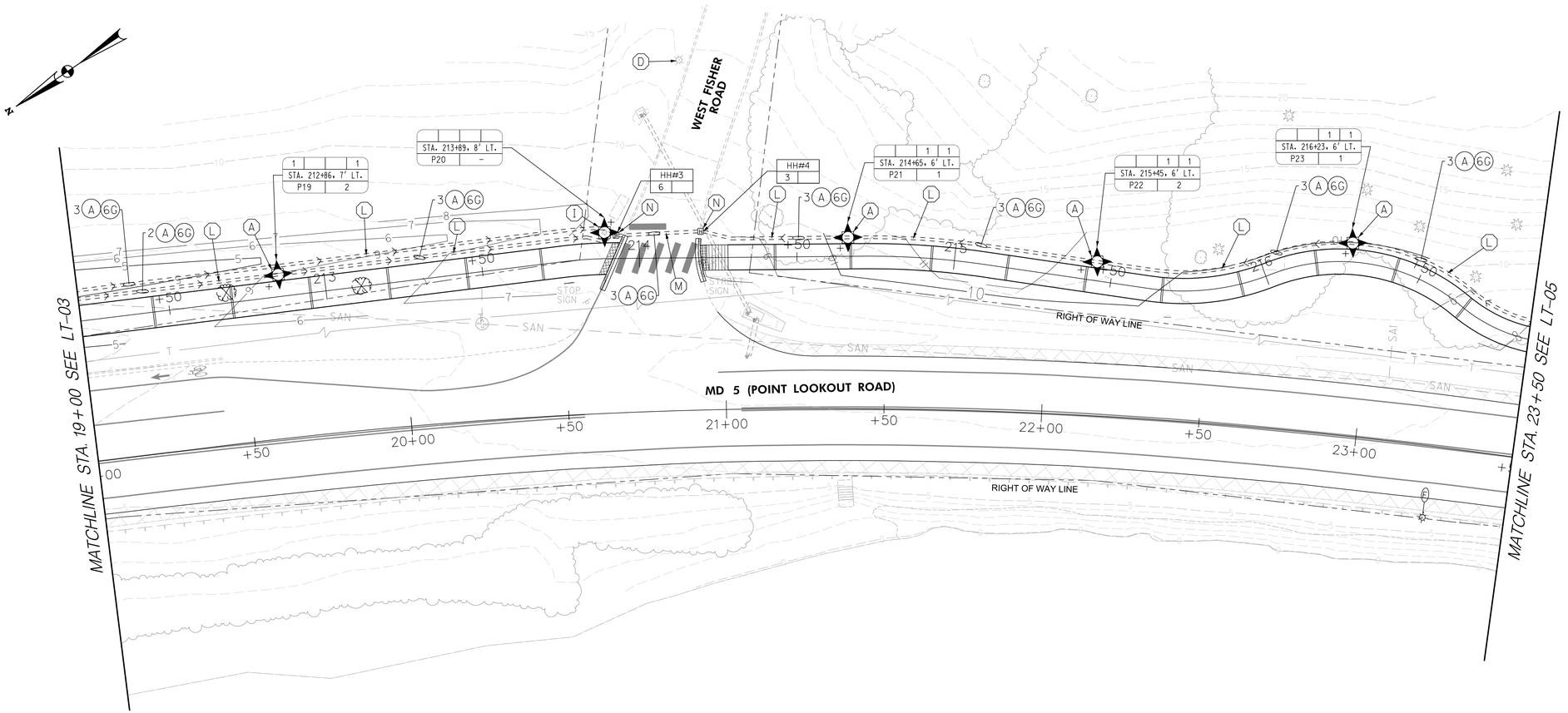
3/4" X 10 FT GROUND ROD		
STATION	EA	REMARKS
212+86 TO 216+23	4	

CONNECTOR KITS		
STATION	EA	REMARKS
212+86, 213+89, 214+65, 215+45 AND 216+23	1	TYPE I
	0	TYPE II
	3	TYPE III
	4	TYPE IV

2 INCH SCHD. 80 PVC CONDUIT - TRENCHED		
STATION	LF	REMARKS
212+22 TO 213+90, 214+20 TO 216+90	700	2 RUNS HH2-HH3

4 INCH SCHD. 80 PVC CONDUIT - BORED		
STATION	LF	REMARKS
213+90 TO 214+20	25	

ELECTRIC HANDHOLE (MD 811.01-03)		
STATION	EA	REMARKS
213+90 AND 214+20	2	



LIGHTING LEGEND

- (A) ELECTRICAL CABLE 1-CONDUCTOR NO. 6 AWG-RHW
- (B) ELECTRICAL CABLE 1-CONDUCTOR NO. 2 AWG-USE
- (6G) NO 6 AWG STRANDED BARE COPPER GROUND WIRE
- BOLLARD WITH SOLAR-POWERED LED LIGHT CAP, WITH CONCRETE FOUNDATION
- ELA LIGHTING ATS/19 POST TOP LUMINAIRE WITH 40 WATT LED (TYPE V5 OPTICS); MOUNTED ON ELA ROUND TAPERED 12 FOOT FLUTED POLE, P3050H12.
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- (LL) EXISTING PENDANT LUMINAIRE (UTILITY POLE MOUNTED) TO REMAIN
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- (P) PROPOSED METERED SERVICE PEDESTAL AND LIGHTING CONTROL CABINET
- PROPOSED GROUND ROD
- DIRECTION OF CIRCUIT FLOW

I (A) (6G)
- GROUND WIRE DESIGNATION
- DUCT WIRE DESIGNATION
- TOTAL NUMBER OF CABLES IN CONDUIT

HH #
TYPE I | TYPE IV
- HANDHOLE ID NO.
- QUANTITY OF CONNECTOR KITS

TYPE I | TYPE II | TYPE III | TYPE IV
STATION & OFFSET
POLE NO. | CIRCUIT NO.
- QUANTITY OF CONNECTOR KITS

POLE NUMBER	POLE HEIGHT	LUMINAIRE WATTAGE	TYPE OF BASE
19	12'	40W/LED	NON-BREAKAWAY
20	12'	40W/LED	EXISTING POLE
21	12'	40W/LED	NON-BREAKAWAY
22	12'	40W/LED	NON-BREAKAWAY
23	12'	40W/LED	NON-BREAKAWAY

NOTE:
1. CONTRACTOR SHALL ADJUST UNDERDRAIN LOCATION WHERE PROPOSED LIGHT POSTS ARE TO BE INSTALLED.
2. ITEM QUANTITIES ARE FOR INFORMATION ONLY.

0 10 20 40
SCALE: 1" = 20'

GEOMETRIC LEGEND
- EXISTING
- PROPOSED

UTILITY LEGEND
- STORM DRAIN
- G GAS MAIN
- W WATER MAIN
- SAN SEWER MAIN
- E ELECTRIC CABLES
- A AERIAL CABLES
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CONSTRUCTION DETAILS

A. INSTALL 12 FT. FLUTED POLE, POLE BASE AND FOUNDATION WITH DECORATIVE 40 WATT LED POST TOP MOUNTED LUMINAIRE (INSTALL 2-2 INCH PVC 90-DEGREE BENDS).

B. REMOVE EXISTING PENDANT LUMINAIRE FROM UTILITY POLE.

C. INSTALL 100 AMP 120/240 VOLT METERED SERVICE PEDESTAL AND LIGHTING CONTROL CABINET WITH INTERGAL PHOTO ELECTRIC CONTROL.

D. EXISTING POST MOUNTED LUMINAIRE TO REMAIN.

E. INSTALL SOLAR POWERED LIGHT BOLLARD AND FOUNDATION.

F. INSTALL 1 1/2 IN. SCHEDULE 80 PVC CONDUIT (MOUNTED ON STRUCTURE). PROVIDE THERMAL EXPANSION COUPLINGS PER NATIONAL ELECTRICAL CODE REQUIREMENTS.

G. INSTALL 18 FT. FLUTED POLE, POLE BASE, FOUNDATION, AND BANNER ARMS WITH DECORATIVE 150 WATT HPS POST TOP MOUNTED LUMINAIRE (INSTALL 2-2 INCH PVC 90-DEGREE BENDS).

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I. REPLACE POST TOP LUMINAIRE ON EXISTING POLE WITH LED LUMINAIRE.

J. INSTALL 3 IN. SCHEDULE 80 PVC CONDUIT (TRENCHED) FOR PROPOSED ELECTRICAL SERVICE. CAP AND MARK CONDUIT 2 FT. ABOVE GRADE AT SMECO UTLITY POLE FOR USE BY OTHERS.

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L. INSTALL 2 IN. SCHEDULE 80 PVC CONDUIT (TRENCHED).

M. INSTALL 4 IN. SCHEDULE 80 PVC CONDUIT (BORED).

N. INSTALL ELECTRICAL HANDHOLE.

SCHEDULE OF SERVICE A							
SERVICE 120/240 VOLTS, 1 PHASE, 3 WIRES		60 AMP LIGHTING CONTACTOR			100 AMP MAIN BREAKER, NEMA 3R ENCLOSURE		
		CONNECTED LOAD			BRANCH CIRCUIT BREAKERS		
CIRCUIT NUMBER	EQUIPMENT SERVED	KW	AMPS	PHASE AND VOLTS	NUMBER OF POLES	FRAME SIZE	TRIP SIZE
1	POLES:18.21.23	0.135	1.13	1/120	3	100	20A
2	POLES:19.22.24	0.135	1.13	1/120			
3	LINEAR LED LTG CKT A	0.75	6.25	1/120	2	100	20A
4	LINEAR LED LTG CKT B	0.75	6.25	1/120			
5	POLES:25.27	0.241	2.01	1/120	2	100	20A
6	POLES:26.28	0.392	3.27	1/120			
	TOTAL	2.099	17.49				

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ELECTRICAL CABLE, 1-COND. NO. 2 AWG - USE		
STATION	LF	REMARKS
217+81, 8' LT TO 217+87, 56' LT	150	SERVICE CABLE

NO. 6 AWG STRANDED BARE COPPER GND. WIRE		
STATION	LF	REMARKS
216+90 TO 220+47	475	

3 INCH SCHD. 80 PVC CONDUIT - TRENCHED		
STATION	LF	REMARKS
217+81, 8' LT TO 217+87, 56' LT	50	SERVICE

3/4" X 10 FT GROUND ROD		
STATION	EA	REMARKS
217+11 TO 220+47	5	

CONNECTOR KITS		
STATION	EA	REMARKS
217+11, 217+86, 218+86, 219+66 AND 220+47	1	TYPE I
	2	TYPE II
	3	TYPE III
	4	TYPE IV

ELECTRICAL UTILITY SERVICE EQUIPMENT, 100 AMP, 120/240 VOLT		
STATION	EA	REMARKS
217+87, 33' LT	1	

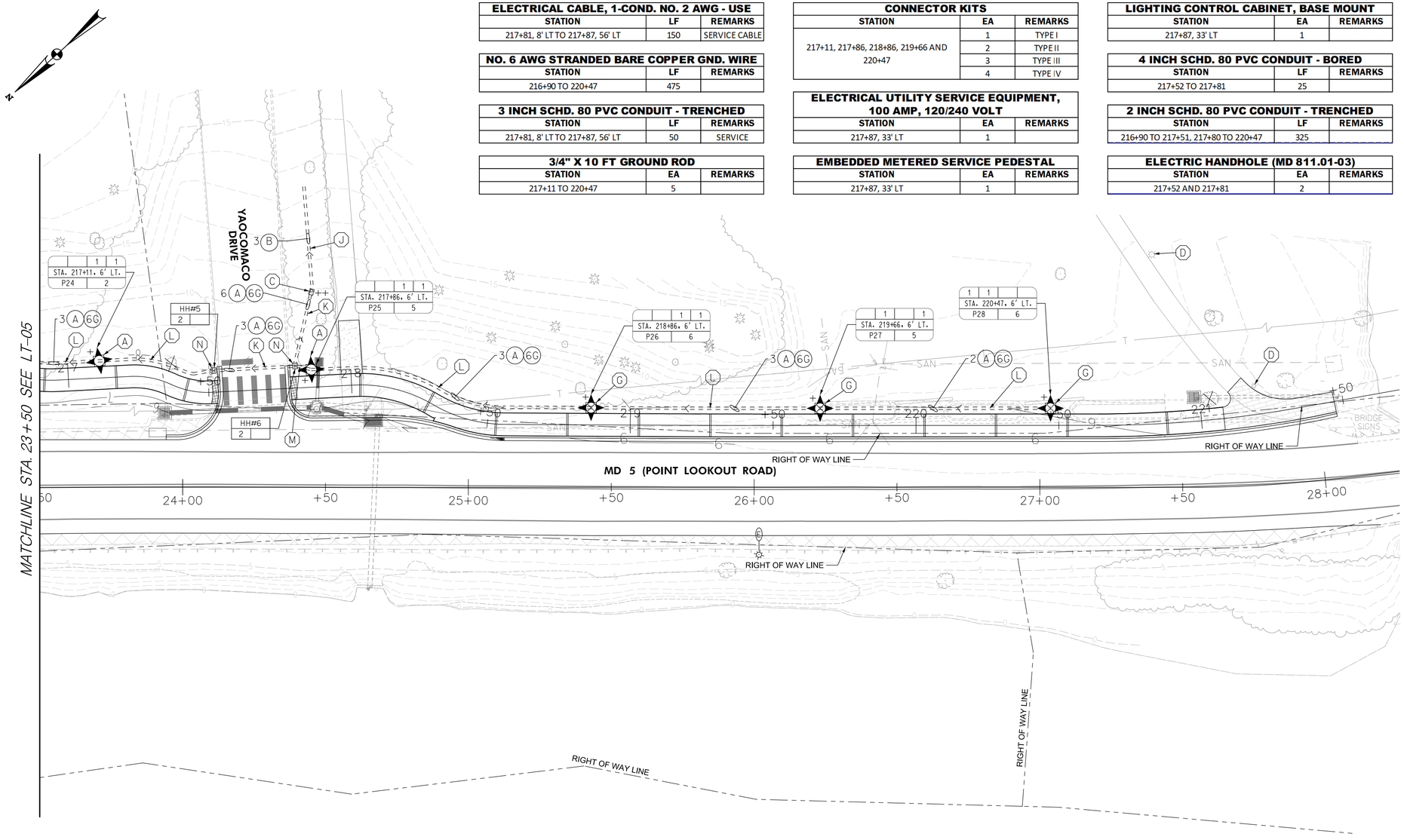
EMBEDDED METERED SERVICE PEDESTAL		
STATION	EA	REMARKS
217+87, 33' LT	1	

LIGHTING CONTROL CABINET, BASE MOUNT		
STATION	EA	REMARKS
217+87, 33' LT	1	

4 INCH SCHD. 80 PVC CONDUIT - BORED		
STATION	LF	REMARKS
217+52 TO 217+81	25	

2 INCH SCHD. 80 PVC CONDUIT - TRENCHED		
STATION	LF	REMARKS
216+90 TO 217+51, 217+80 TO 220+47	325	

ELECTRIC HANDHOLE (MD 811.01-03)		
STATION	EA	REMARKS
217+52 AND 217+81	2	



LIGHTING LEGEND

- (A) ELECTRICAL CABLE 1-CONDUCTOR NO. 6 AWG-RHW
- (B) ELECTRICAL CABLE 1-CONDUCTOR NO. 2 AWG-USE
- (6G) NO 6 AWG STRANDED BARE COPPER GROUND WIRE
- BOLLARD WITH SOLAR-POWERED LED LIGHT CAP, WITH CONCRETE FOUNDATION
- ELA LIGHTING ATS/19 POST TOP LUMINAIRE WITH 40 WATT LED (TYPE V5 OPTICS); MOUNTED ON ELA ROUND TAPERED 12 FOOT FLUTED POLE, P3050H12.
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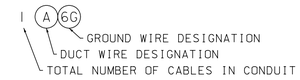
- (R) EXISTING POST MOUNTED LANTERN AND POLE TO BE REMOVED
- (LL) EXISTING PENDANT LUMINAIRE (UTILITY POLE MOUNTED) TO BE REMOVED
- (H) PROPOSED ELECTRICAL HANDHOLE
- (D) PROPOSED BOARDWALK MOUNTED WEATHERPROOF JUNCTION BOX SIZED TO CONTAIN LED DRIVER(S) AND WIRING SPLICES FOR LED LINEAR LIGHTING.
- (P) PROPOSED METERED SERVICE PEDESTAL AND LIGHTING CONTROL CABINET
- PROPOSED GROUND ROD
- DIRECTION OF CIRCUIT FLOW



150W HPS POST TOP LUMINAIRE, 18 FT POLE		
STATION	EA	REMARKS
218+86, 219+66 AND 220+47	3	

40W LED POST TOP LUMINAIRE, 12 FT POLE		
STATION	EA	REMARKS
217+11 AND 217+86	2	

CONCRETE FOR LIGHT FOUNDATION		
STATION	CY	REMARKS
217+11, 217+86, 218+86, 219+66 & 220+47	5	

ELECTRICAL CABLE, 1-COND. NO. 6 AWG - RHW		
STATION	LF	REMARKS
216+90 TO 220+47	1075	

0 10 20 40

SCALE: 1" = 20'

GEOMETRIC LEGEND
- EXISTING
- PROPOSED

UTILITY LEGEND
- STORM DRAIN
- G GAS MAIN
- W WATER MAIN
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C. INSTALL 100 AMP 120/240 VOLT METERED SERVICE PEDESTAL AND LIGHTING CONTROL CABINET WITH INTERGAL PHOTO ELECTRIC CONTROL.

D. EXISTING POST MOUNTED LUMINAIRE TO REMAIN.

E. INSTALL SOLAR POWERED LIGHT BOLLARD AND FOUNDATION.

F. INSTALL 1 1/2 IN. SCHEDULE 80 PVC CONDUIT (MOUNTED ON STRUCTURE). PROVIDE THERMAL EXPANSION COUPLINGS PER NATIONAL ELECTRICAL CODE REQUIREMENTS.

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K. INSTALL 3 IN. SCHEDULE 80 PVC CONDUIT (TRENCHED).

L. INSTALL 2 IN. SCHEDULE 80 PVC CONDUIT (TRENCHED).

M. INSTALL 4 IN. SCHEDULE 80 PVC CONDUIT (BORED).

N. INSTALL ELECTRICAL HANDHOLE.

POLE NUMBER	POLE HEIGHT	LUMINAIRE WATTAGE	TYPE OF BASE
24	12'	40W/LED	NON-BREAKAWAY
25	12'	40W/LED	NON-BREAKAWAY
26	18'	150W/HPS	BREAKAWAY
27	18'	150W/HPS	BREAKAWAY
28	18'	150W/HPS	BREAKAWAY

NOTE:
1. CONTRACTOR SHALL ADJUST UNDERDRAIN LOCATION WHERE PROPOSED LIGHT POSTS ARE TO BE INSTALLED.
2. ITEM QUANTITIES ARE FOR INFORMATION ONLY.

McCORMICK TAYLOR
509 South Exeter Street
4th Floor
Baltimore, Maryland 21202
(410) 662-7400

ST. MARY'S COLLEGE OF MARYLAND

ST. MARY'S COLLEGE OF MARYLAND PEDESTRIAN AND BICYCLE TRAIL PROJECT

LIGHTING PLAN

SCALE 1" = 20' ADVERTISED DATE DEC 2021 CONTRACT NO. SM193B51

DESIGNED BY CAG
DRAWN BY CJG
CHECKED BY BSH
MDE/PRD SEE TITLE SHEET

COUNTY ST. MARY'S
LOGMILE 11.19 TO 11.59
T.I.M.S. NO. PENDING
TOD NO.

DRAWING NO. LT-05 OF LT-05
SHEET NO. 62 OF 62

PLOTTED: Friday, November 05, 2021 AT 10:16 AM
FILE: \\baserver\Projects\5370 - St. Mary's College\01 - MD 5 - St Mary's College\Design\Engineering\PlanSet\Tepp\Tepp Planset\pLT-P005-MD5_Tepp.dgn
BY: ggwissman -