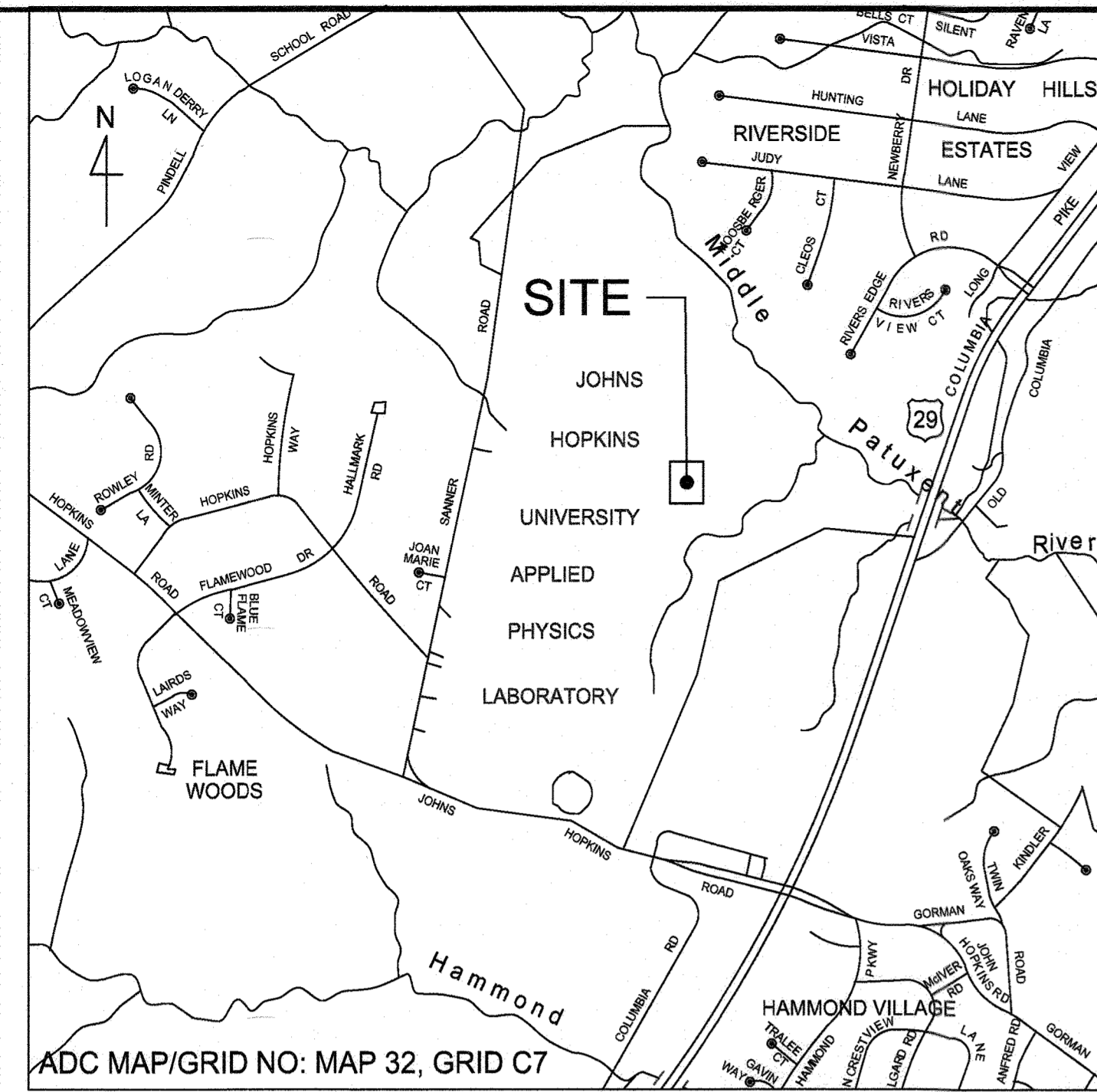


JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY GATE 4 IMPROVEMENTS ECP SUBMISSION



VICINITY MAP
SCALE: 1"=2000'

| Sheet Index | | |
|--------------|-------------|----------------------------------|
| Sheet Number | Sheet Title | Sheet Name |
| 01 | G-001 | COVER SHEET |
| 02 | C-201 | ENVIRONMENTAL CONCEPT PLAN I |
| 03 | C-202 | ENVIRONMENTAL CONCEPT PLAN II |
| 04 | C-601 | EROSION SEDIMENT CONTROL PLAN I |
| 05 | C-602 | EROSION SEDIMENT CONTROL PLAN II |

| ADDRESS CHART | |
|---------------|--------------------------|
| LOT/PARCEL # | STREET ADDRESS |
| 1/123 | 11100 JOHNS HOPKINS ROAD |

| PERMIT INFORMATION CHART | | | | | |
|--------------------------|--------|--------------|----------------|----------------|--------------|
| SUBDIVISION NAME | | SECTION/AREA | LOT/PARCEL NO. | | |
| N/A | | N/A | 1/123 | | |
| PLAT # or L.F. | GRID # | ZONING | TAX MAP NO. | ELECT DISTRICT | CENSUS TRACT |
| 18988 | 16 | PEC | 41 | 5 | 605102 |
| WATER CODE | | SEWER CODE | | | |
| E21 | | 6480000 | | | |

SITE ANALYSIS DATA SHEET

| ENVIRONMENTAL AREAS | | SITE AREAS | |
|---------------------|---------|--------------------|------------------|
| WETLANDS | NONE | TOTAL PROJECT AREA | 357.976 acres |
| FLOODPLAIN | NONE | LOD AREA | 2.28 acres |
| FORESTS | NONE | PROPOSED SITE USE | LIGHT INDUSTRIAL |
| STEEP SLOPES | 0 acres | PROPOSED OPEN AREA | 0.70 acres |
| ERODIBLE SOILS | 0 acres | IMPERVIOUS AREA | 1.58 acres |

*IMPERVIOUS AREA INCLUDES AREAS OF UTILITY TRENCHING.

NOTE: INFORMATION IS FOR WORK IN THE PROPOSED LOD ONLY. HIGHLY ERODIBLE SOILS CRITERIA ARE: SLOPE > 15% OR K-FACTOR = Kw-FACTOR > 0.35 WITH SLOPES > 5%.

SITE ANALYSIS DATA CHART

TOTAL PROJECT AREA: 357.976 AC.
AREA OF PLAN SUBMISSION: 2.69 AC.
LIMIT OF DISTURBANCE: 2.28 AC.
PRESENT ZONING: PEC
PROPOSED USE: LIGHT INDUSTRIAL USES
EXISTING NUMBER OF JHU/APL EMPLOYEES: 4,600
EXISTING MAXIMUM NUMBER OF PARKING SPACES REQUIRED BY ZONING: 2,850 (SDP-05-133)
EXISTING ONSITE PARKING SPACES: 4,798 (SDP 05-133)
PROPOSED ONSITE PARKING SPACES: 4,786

PROPOSED ASSIGNABLE OFFICE SPACE: 0 GSF
NO ADDITIONAL JHU/APL EMPLOYEES ARE PROPOSED AS PART OF THIS SUBMISSION
PROPOSED BUILDING GROSS FT²: 2,525 GSF

EXISTING OPEN SPACE AREA: 278.89 ACRES (77.9% OF TOTAL LOT AREA)
PROPOSED OPEN SPACE AREA: 279.22 ACRES (78.0% OF TOTAL LOT AREA)

NATURAL STEEP SLOPES (>15%) = 0.03 ACRES
HIGHLY ERODIBLE SOILS = 0.00 ACRES

CASE NUMBERS APPLICABLE:
F-02-40, SDP-02-140

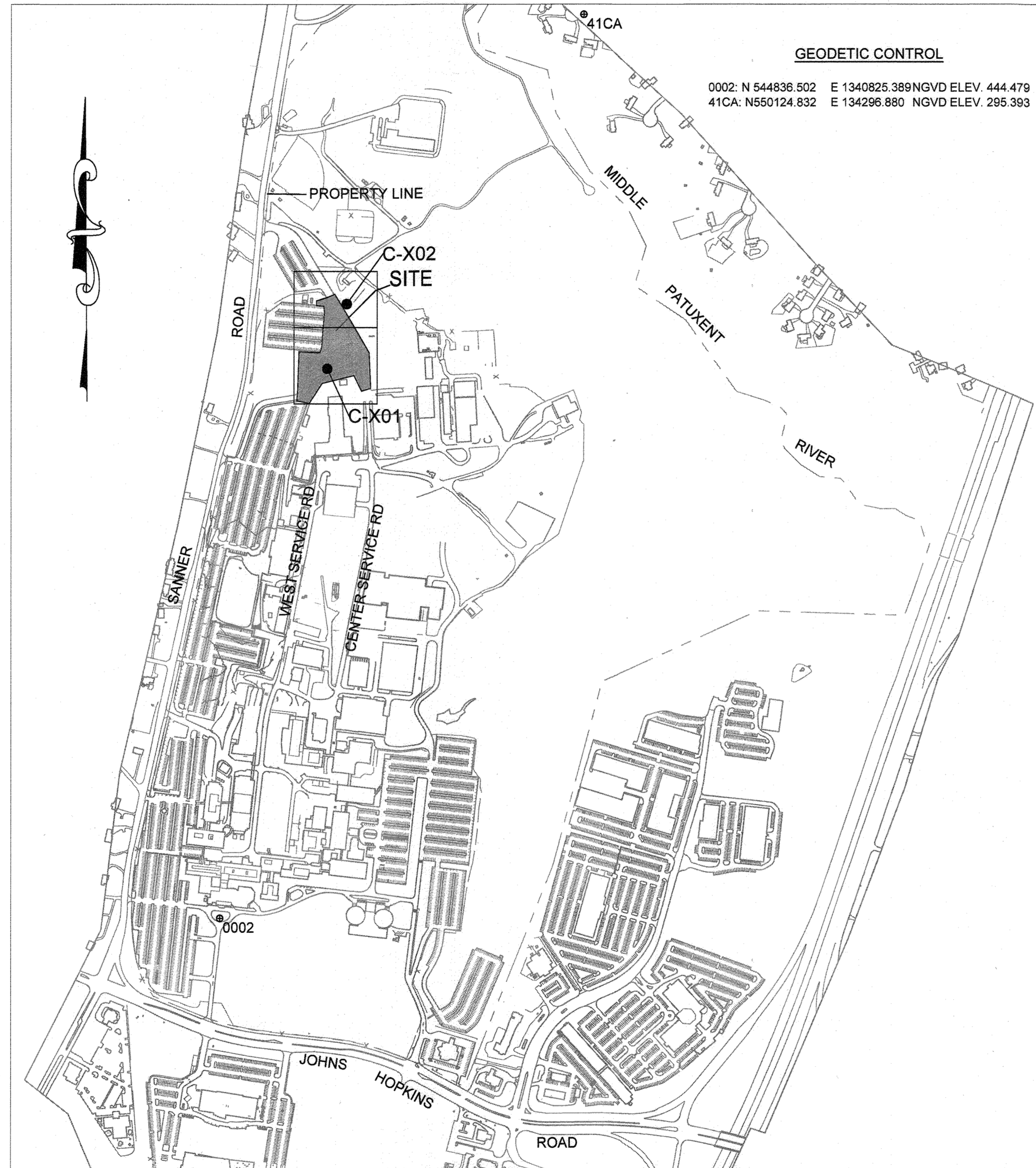
SANITARY SEWER / WATER SERVICE:
PRIVATE ONSITE SYSTEM, PUBLIC CONNECTION

EXISTING TOTAL BUILDING COVERAGE:
25.57 ACRES (7.1%)

PROPOSED BUILDING COVERAGE:
0.05 ACRES (2,525 SF)

TOTAL PROPOSED BUILDING COVERAGE:
25.62 ACRES (7.2%)

NO FLOODPLAINS OR FOREST CONSERVATION EASEMENTS PRESENT WITHIN THE LIMITS OF DISTURBANCE.



CAMPUS SITE PLAN
SCALE: 1"=500'

NARRATIVE

THE GATE 4 SITE WILL INCLUDE A 2,525 SQUARE FOOT BUILDING WITH CONCRETE UTILITY PADS AND SURROUNDING GRAVEL. THE SITE DRAINS TOWARD EXISTING BASIN B AND G ON THE JHU-APL CAMPUS. THIS PROJECT IS LOCATED WITHIN THE PATUXENT RIVER WATERSHED. NEITHER FOREST CONSERVATION EASEMENTS NOR FLOODPLAINS EXIST WITHIN THE PROJECT LIMITS.

TO ACHIEVE STORMWATER MANAGEMENT REQUIREMENTS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) AND HOWARD COUNTY, THE USE OF ENVIRONMENTAL SITE DESIGN (ESD) TO THE MAXIMUM EXTENT PRACTICABLE (MEP) WILL BE IMPLEMENTED.

STORMWATER MANAGEMENT REQUIREMENTS WILL BE ACHIEVED WITH THREE FOCAL POINT FACILITIES. THE FOCAL POINT FACILITY IS LISTED AS AN ACCEPTABLE PRACTICE BY HOWARD COUNTY AND MDE. QUANTITY CONTROL REQUIREMENTS ARE MET THROUGH THE REDUCTION OF CONTRIBUTING IMPERVIOUS AREA AND FLOW RATES TO BASIN B AND G IN THE PROPOSED CONDITION FROM THE EXISTING CONDITION. THROUGH THE USE OF THESE STORMWATER MANAGEMENT DEVICES, ESD TO THE MEP IS ACHIEVED.

PURPOSE STATEMENT

THE PURPOSE OF THESE PLANS IS TO PROVIDE INFORMATION ON EXISTING SITE CONDITIONS AND PROPOSED IMPROVEMENTS FOR A 2,525 GSF GUARD CENTER BUILDING AND SECURITY INFRASTRUCTURE.

GENERAL NOTES

- THE SUBJECT PROPERTY ZONED PEC (PLANNED EMPLOYMENT CENTER) PER THE OCTOBER 6, 2013 COMPREHENSIVE ZONING PLAN.
- COORDINATES, BEARINGS AND DISTANCES SHOWN HEREON ARE REFERRED TO THE MARYLAND COORDINATE SYSTEM (NAD83/2011). ELEVATIONS SHOWN HEREON ARE REFERRED TO THE NAVD83 DATUM.
- TOPOGRAPHIC SURFACE AND UTILITY INFORMATION SHOWN WAS OBTAINED FROM FIELD SURVEY BY ACCURATE INFRASTRUCTURE DATA, INC., COMPLETED SEPTEMBER 5, 2023.
- NO CEMETERIES EXIST ON THIS SITE BASED ON A SITE VISIT AND ON AN EXAMINATION OF THE HOWARD COUNTY CEMETERY INVENTORY MAP.
- NO HISTORIC STRUCTURES EXIST ON THE SUBJECT PROPERTY.
- THERE ARE NO EXISTING DWELLINGS ON THIS SITE.
- PREVIOUS DEPARTMENT OF PLANNING AND ZONING FILE NUMBERS:
SDP-04-76: SERVICES AREA COMPLEX
F-02-40: SWM BASIN 'A', APFO, FOREST CONSERVATION
SDP-05-042: JHU/LIBRARIES SERVICES CENTER (FOREST CONSERVATION & WETLANDS UPDATES)
SDP-03-043: SANNER ROAD IMPROVEMENTS (NEW APFO NUMBER: 4,600)
F-04-188: FOREST CONSERVATION EASEMENTS RE-PLAT
F-07-035: FOREST CONSERVATION, RE-PLAT EASEMENT
SDP-08-084: SERVICES AND SUPPORT AREA INFRASTRUCTURE FACILITY PHASE I
F-02-077: FINAL PLAN STORMWATER MANAGEMENT FACILITIES DRAINAGE AREA B AS-BUILT
SDP-04-035: STORMWATER MANAGEMENT BASIN G AS-BUILT
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL.
- THE PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT.
- EXISTING WATER WITHIN THE PROPERTY BOUNDARIES IS PRIVATE. EXISTING SEWER WITHIN THE PROPERTY BOUNDARIES IS PRIVATE.
- SOILS INFORMATION TAKEN FROM NRCS WEB SOIL SURVEY DATED OCTOBER 13, 2023.
- STORMWATER MANAGEMENT WILL BE PROVIDED IN ACCORDANCE WITH THE 2010 MDE, CHAPTER 5 REGULATIONS (ESD TO MEP) AND THE LATEST HOWARD COUNTY DESIGN MANUAL, VOL. 1, CHAPTER 5, ADOPTED ON OR ABOUT OCTOBER 7, 2019. ALL FACILITIES WILL BE PRIVATELY OWNED AND MAINTAINED BY JOHNS HOPKINS UNIVERSITY.
- THIS PROJECT COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION BY F-02-40, F-04-188, AND F-07-035. FOREST CONSERVATION OBLIGATION WAS FULFILLED UNDER F-04-188 AND F-07-035.
- HEALTH DEPARTMENT APPROVAL OF THIS DEVELOPMENT PLAN DOES NOT ENSURE APPROVAL OF BUILDING PERMIT APPLICATIONS ASSOCIATED WITH THIS PLAN. PLANS FOR CERTAIN FACILITIES TO BE CONSTRUCTED WITHIN THE LIMITS DESCRIBED BY THIS PLAN WILL REQUIRE REVIEW AND APPROVAL BY THE HEALTH DEPARTMENT. SUCH FACILITIES MAY INCLUDE, BUT ARE NOT LIMITED TO, THOSE WHICH HAVE SWIMMING POOLS, OR THAT SELL PREPARED OR PACKAGED FOODS, OR THAT MAY HAVE EQUIPMENT THAT EMITS RADIATION.
- NO WORK IS PROPOSED IN THE COUNTY RIGHT-OF-WAY. ALL PROPOSED WORK IS INTERIOR TO THE SITE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MD-SHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST (5) WORKING DAYS PRIOR TO START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST FIVE DAYS PRIOR TO ANY EXCAVATION WORK.
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- THERE ARE NO FLOODPLAIN, WETLANDS, OR STREAMS WITHIN THE PROJECT BOUNDARY AREA.
- STEEP SLOPES (GREATER THAN 15%) EXIST ON SITE; SEE SITE ANALYSIS DATA SHEET.
- TRASH PICK UP WILL BE PRIVATELY MAINTAINED.
- NO OFF-SITE ACTIVITIES ARE PROPOSED FOR THIS PROJECT.
- THE SITE IS NOT IN THE AIRPORT ZONE.
- THE CONTRACTOR IS REQUIRED TO OBTAIN ALL NECESSARY PERMITS AND INSPECTIONS.
- ALL GRADING AND EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S REPORT AND INSPECTED BY A GEOTECHNICAL ENGINEER.
- CONSTRUCTION OF SUBGRADE, UNDERDRAINS, AND PAVING SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER.
- EXISTING UTILITIES WHICH ARE NOT TO BE REMOVED OR ABANDONED SHALL REMAIN OPERATIONAL AT ALL TIMES. APPROPRIATE EXISTING UTILITIES SHALL REMAIN IN SERVICE UNTIL REPLACEMENT/RELOCATED UTILITIES ARE OPERATIONAL.
- ALL DISTURBED AREAS NOT STABILIZED WITH STRUCTURES, PAVING, AND/OR PLANTINGS SHALL BE STABILIZED WITH FOUR INCHES OF TOPSOIL, SEED, MULCH AND WATERED TO ESTABLISH AN ADEQUATE GROWTH OF GRASS AS SPECIFIED ON THE EROSION AND SEDIMENT CONTROL PLANS.
- NUMERICAL DIMENSIONS AND ELEVATIONS SHOWN SHALL SUPERSEDE ANY DISCREPANCY IN THE SCALING ON THE DRAWINGS.
- CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL EXISTING AND PROPOSED BUILDING ENTRANCES DURING ALL PHASES OF CONSTRUCTION, UNLESS OTHERWISE NOTED IN THESE DOCUMENTS. CONTRACTOR SHALL NOTIFY ENGINEER / OWNER IF EXISTING OR PROPOSED CONDITIONS RESTRICT ABILITY TO ACHIEVE POSITIVE DRAINAGE FROM BUILDINGS PRIOR TO THE START OF CONSTRUCTION.
- PERIMETER LANDSCAPING IS NOT REQUIRED WITH THIS SDP BECAUSE THE PROPOSED BUILDING IS LOCATED INTERNAL TO THE SITE.
- NO WAIVERS OR ALTERNATIVE COMPLIANCE ARE REQUESTED.
- APPROVAL OF THIS ECP DOES NOT CONSTITUTE AN APPROVAL OF ANY SUBSEQUENT AND ASSOCIATED SUBDIVISION PLAN, SITE DEVELOPMENT PLAN, OR GRADING OR BUILDING PERMIT PLAN. REVIEW OF THIS PROJECT FOR COMPLIANCE WITH THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE HOWARD COUNTY ZONING REGULATIONS SHALL OCCUR AT THE SUBDIVISION, SITE DEVELOPMENT PLAN, OR GRADING AND BUILDING PERMIT STAGES. THE APPLICANT AND CONSULTANT SHOULD EXPECT ADDITIONAL AND MORE DETAILED REVIEW COMMENTS AS THIS PROJECT PROGRESSES THROUGH THE PLAN REVIEW PROCESS.

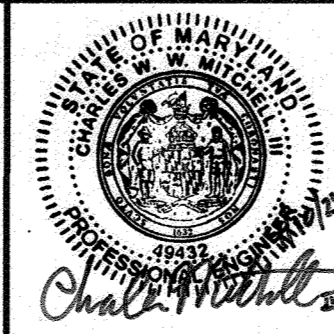
APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature]
Chief, Development Engineering Division
Date: 4/25/24

[Signature]
Chief, Division of Land Development
Date: 4/23/24



700 East Pratt Street, Suite 500
Baltimore, MD 21202
PH: 410.729.2900
www.rk.com



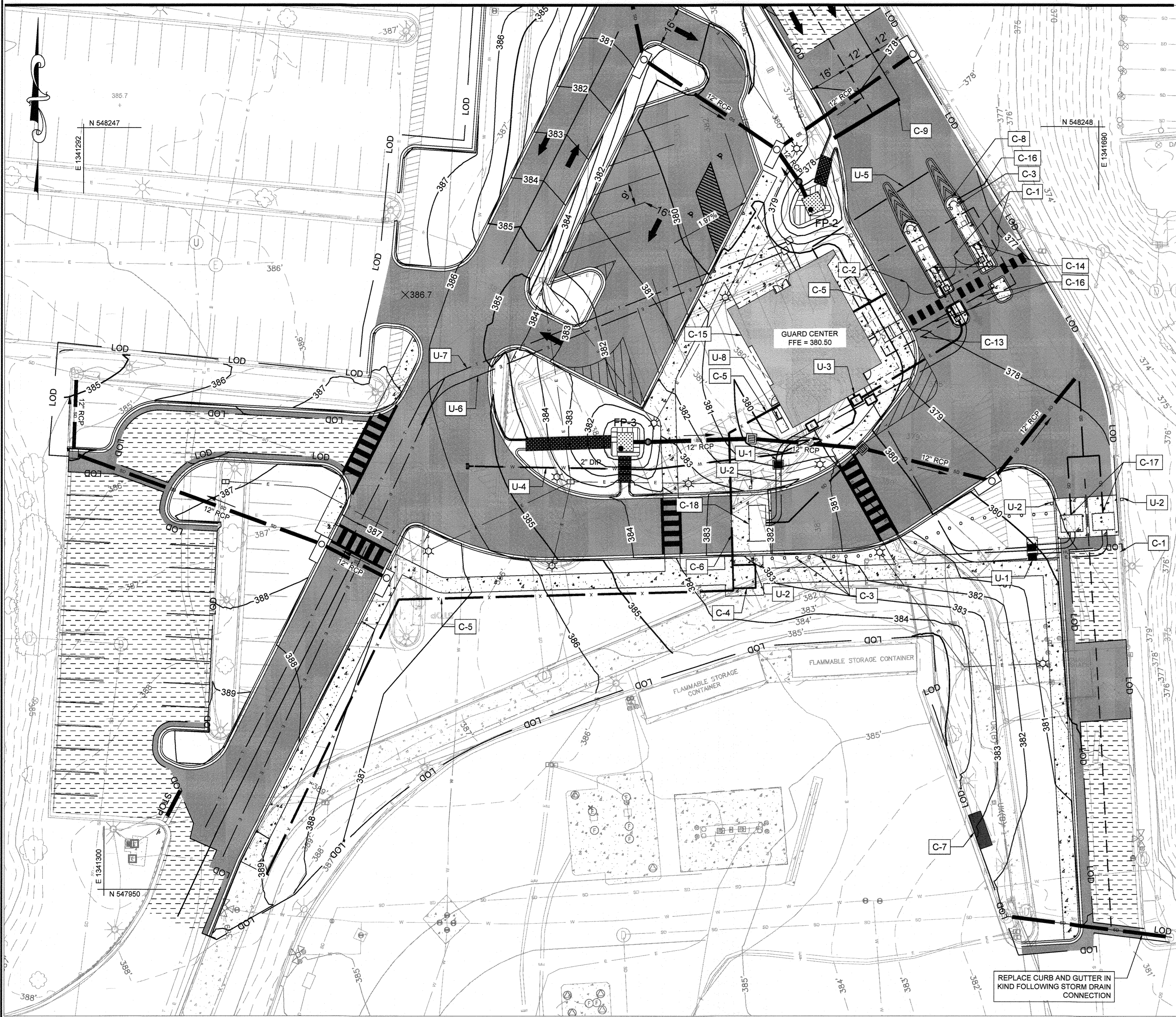
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TCM
CHECKED BY:
EKM/CWMM
DATE:
04/10/24

| BY | NO. | REVISION | DATE |
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OWNER/DEVELOPER
JOHNS HOPKINS
APPLIED PHYSICS LABORATORY
11100 JOHNS HOPKINS ROAD
LAUREL, MARYLAND 20723

COVER SHEET
JOHNS HOPKINS UNIVERSITY - APPLIED PHYSICS LABORATORY
B108 GATE4 IMPROVEMENTS PROJECT
11100 JOHNS HOPKINS ROAD
TAX MAP: 41 PARCEL: 123 GRID: 16 ZONED: PEC
ELECTION DISTRICT 5 - HOWARD COUNTY, MARYLAND
SHEET 01 OF 05

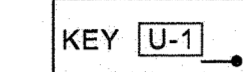
G-001
RK&K PROJECT NUMBER 23187
SCALE: As Shown



GENERAL NOTES

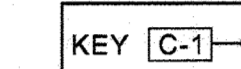
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2. BEARINGS, COORDINATES AND ELEVATIONS SHOWN ON THIS PLAN ARE SHOWN IN MARYLAND STATE PLANE. ALL VERTICAL CONTROLS ARE BASED ON NAVD 88.
3. ALL DISTURBED AREAS NOT SCHEDULED TO BE PAVED SHALL RECEIVE 4" TOPSOIL AND SEED MIX CONTAINING 70% TURF TYPE FALL FESCUE WITH 30% PERENNIAL RYE, WITH CURLEX COVERING. LOOSE STRAW IS NOT PERMITTED.
4. FOR PROJECT GENERAL NOTES, SEE THE COVER SHEET.

UTILITY PLAN NOTES



- | | |
|---|---|
| 1. PROPOSED HYDRAULIC POWER UNIT CABINET (TYP) | 5. PROPOSED SANITARY SEWER SERVICE |
| 2. PROPOSED TRAFFIC SIGNAL FOR WEDGE BARRIER SYSTEM | 6. PROPOSED ELECTRICAL DUCT BANK SERVICE |
| 3. CONNECT TO ELECTRICAL ROOM | 7. PROPOSED TELECOMMUNICATION DUCT BANK SERVICE |
| 4. PROPOSED WATER SERVICE | 8. EQUIPMENT PADS |

SITE PLAN NOTES



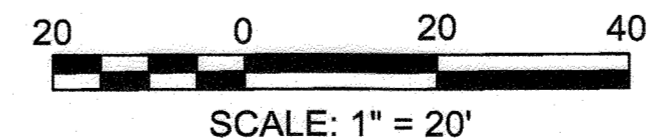
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|--|---|
| 1. 14' SWING GATE (TYP. 2) | 12. SPEED HUMP |
| 2. 18' SWING GATE (TYP. 1) | 13. GUARD CENTER CANOPY |
| 3. K12 RATED BOLLARDS (TYP.) | 14. GUARD BOOTHS |
| 4. SECURITY TURNISLE | 15. GUARD CENTER |
| 5. 8' CHAIN-LINK FENCE WITH RAZOR WIRE | 16. BARRIER GATE ARM |
| 6. 24' CANTILEVER GATE | 17. 8 FOOT RAPID DEPLOYMENT K12 WEDGE BARRIER (TYP. 2) |
| 7. BUS SHELTER | 18. 14 FOOT RAPID DEPLOYMENT K12 WEDGE BARRIER (TYP. 1) |
| 8. CRASH ATTENUATOR (TYP. 2) | |
| 9. STOP LINE | |
| 10. WHITE DASHED LINE | |
| 11. YELLOW SOLID LINE (HC DETAIL T-7.01, 5'DY) | |

EXISTING LEGEND

- MINOR CONTOUR
- MAJOR CONTPUR
- SANITARY SEWER
- ELECTRIC
- TELE COMMUNICATION
- WATER LINE
- LIGHT POLE
- STORM DRAIN MANHOLE
- STORM DRAIN INLET
- COMMUNICATION MANHOLE
- ELECTRIC CABINET
- VALVE

PROPOSED LEGEND

- MINOR CONTOUR
- MAJOR CONTOUR
- WATER LINE
- TELE COMMUNICATION
- SANITARY SEWER
- ELECTRIC
- SITE FENCE
- LOD
- HYDRAULIC POWER LINE
- FULL DEPTH ASPHALT
- MILL AND RESURFACE EXISTING ASPHALT PAVEMENT
- CONCRETE PAVING
- PAVEMENT MARKINGS
- HYDRAULIC POWER UNIT
- LIGHT POLE
- TYPE A-10 STORM CURB INLET
- TYPE S STORM GRATE INLET
- FOCAL POINT FACILITY (SURFACE STORAGE & FOCAL POINT BED)



APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division
 Date: 4/25/24
 Date: 4/25/24

RK&K
 RUMMEL, KLEPPER & KAHL, LLP
 ENGINEERS/CONSTRUCTION MANAGERS/PLANNERS/SCIENTISTS
 RESPONSIVE PEOPLE • CREATIVE SOLUTIONS
 700 East Pratt Street, Suite 500
 Baltimore, MD 21202
 Ph: 410.728.2900 Contact: Mark Thomasson
 www.rk.com

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 6452. EXPIRATION DATE: MAY 31, 2024

| | | | |
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| DESIGN BY: TCM | | | |
| DRAWN BY: TCM | | | |
| CHECKED BY: EKM/CWMM | | | |
| DATE: 04/10/24 | | | |
| BY | NO. | REVISION | DATE |

OWNER/DEVELOPER
 JOHNS HOPKINS
 APPLIED PHYSICS LABORATORY
 11100 JOHNS HOPKINS ROAD
 LAUREL, MARYLAND 20723

ENVIRONMENTAL CONCEPT PLAN
 JOHNS HOPKINS UNIVERSITY - APPLIED PHYSICS LABORATORY
B108 GATE4 IMPROVEMENTS PROJECT
 11100 JOHNS HOPKINS ROAD
 TAX MAP: 41 PARCEL: 123 GRID: 18 ZONED: PEG
 ELECTION DISTRICT 5 - HOWARD COUNTY, MARYLAND
 SHEET 02 OF 05

C-201
 RK&K PROJECT NUMBER 23187
 SCALE: As Shown

GENERAL NOTES

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UTILITY PLAN NOTES

KEY [U-1]

- | | |
|---|---|
| 1. PROPOSED HYDRAULIC POWER UNIT CABINET (TYP.) | 5. PROPOSED SANITARY SEWER SERVICE |
| 2. PROPOSED TRAFFIC SIGNAL FOR WEDGE BARRIER SYSTEM | 6. PROPOSED ELECTRICAL DUCT BANK SERVICE |
| 3. CONNECTON TO ELECTRICAL ROOM | 7. PROPOSED TELECOMMUNICATION DUCT BANK SERVICE |
| 4. PROPOSED WATER SERVICE | 8. EQUIPMENT PADS |

SITE PLAN NOTES

KEY [C-1]

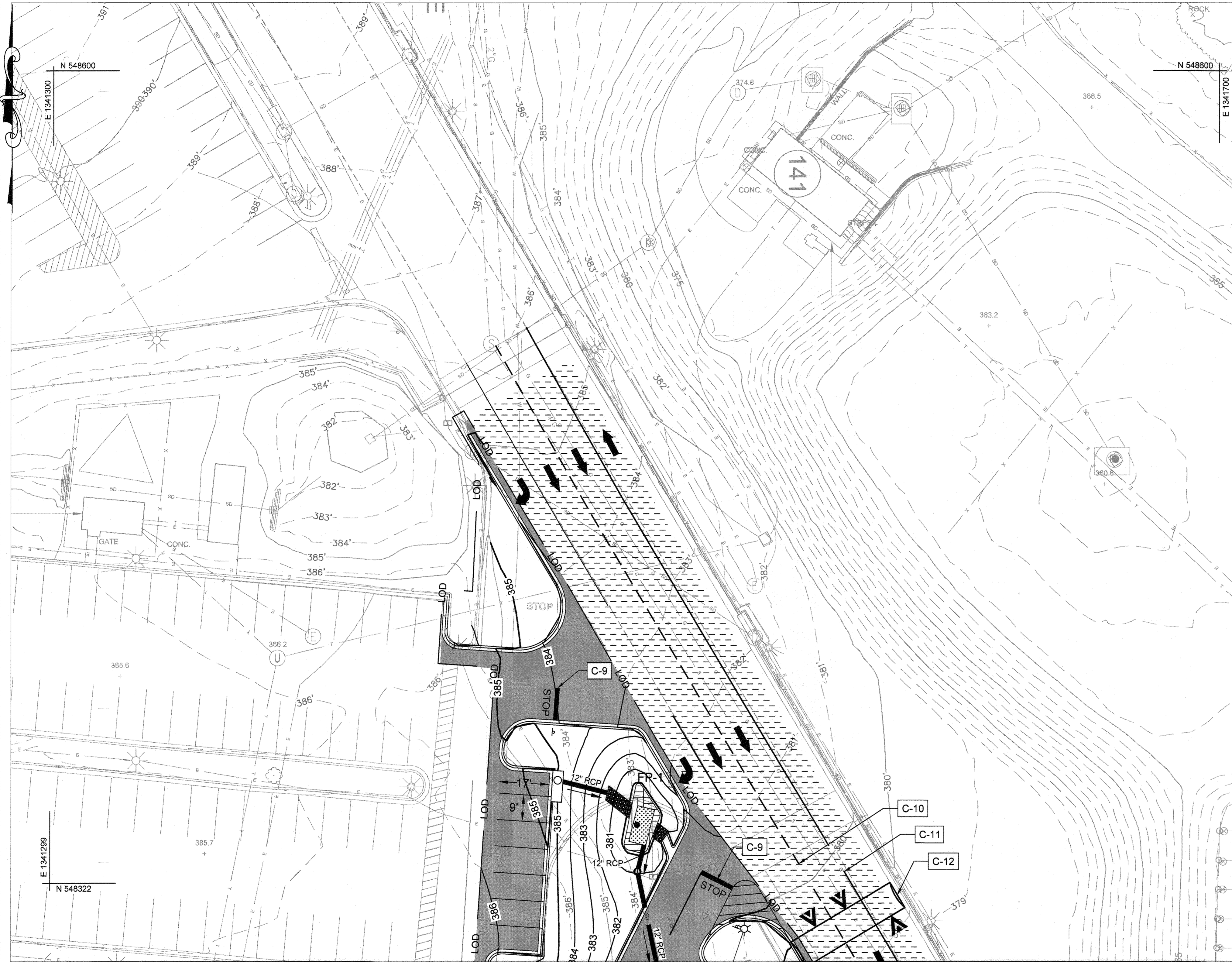
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EXISTING LEGEND

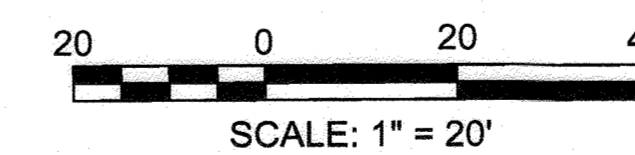
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- TELE COMMUNICATION
- WATER LINE
- ☼ LIGHT POLE
- ⊙ STORM DRAIN MANHOLE
- ⊙ STORM DRAIN INLET
- ⊙ COMMUNICATION MANHOLE
- ⊙ ELECTRIC CABINET
- ⊙ VALVE

PROPOSED LEGEND

- MINOR CONTOUR
- MAJOR CONTOUR
- W --- WATER LINE
- T --- TELE COMMUNICATION
- S --- SANITARY SEWER
- E --- ELECTRIC
- X --- SITE FENCE
- LOD --- LIMIT OF DISTURBANCE
- HL --- HYDRAULIC POWER LINE
- FULL DEPTH ASPHALT
- ▨ MILL AND RESURFACE EXISTING ASPHALT PAVEMENT
- ▨ CONCRETE PAVING
- ↙ ↘ PAVEMENT MARKINGS
- HYDRAULIC POWER UNIT
- ☼ LIGHT POLE
- ⊙ (I-10) TYPE A-10 STORM CURB INLET
- ⊙ (I-10) AT GRADE STORM GRATE INLET
- FP-X FOCAL POINT FACILITY (SURFACE STORAGE & FOCAL POINT BED)



MATCHLINE - SEE SHEET C-201



APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature]
Chief, Development Engineering Division
Date: 4.25.24
[Signature]
Chief, Division of Land Development
Date: 4/23/24



PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 46432. EXPIRATION DATE: MAY 31, 2024



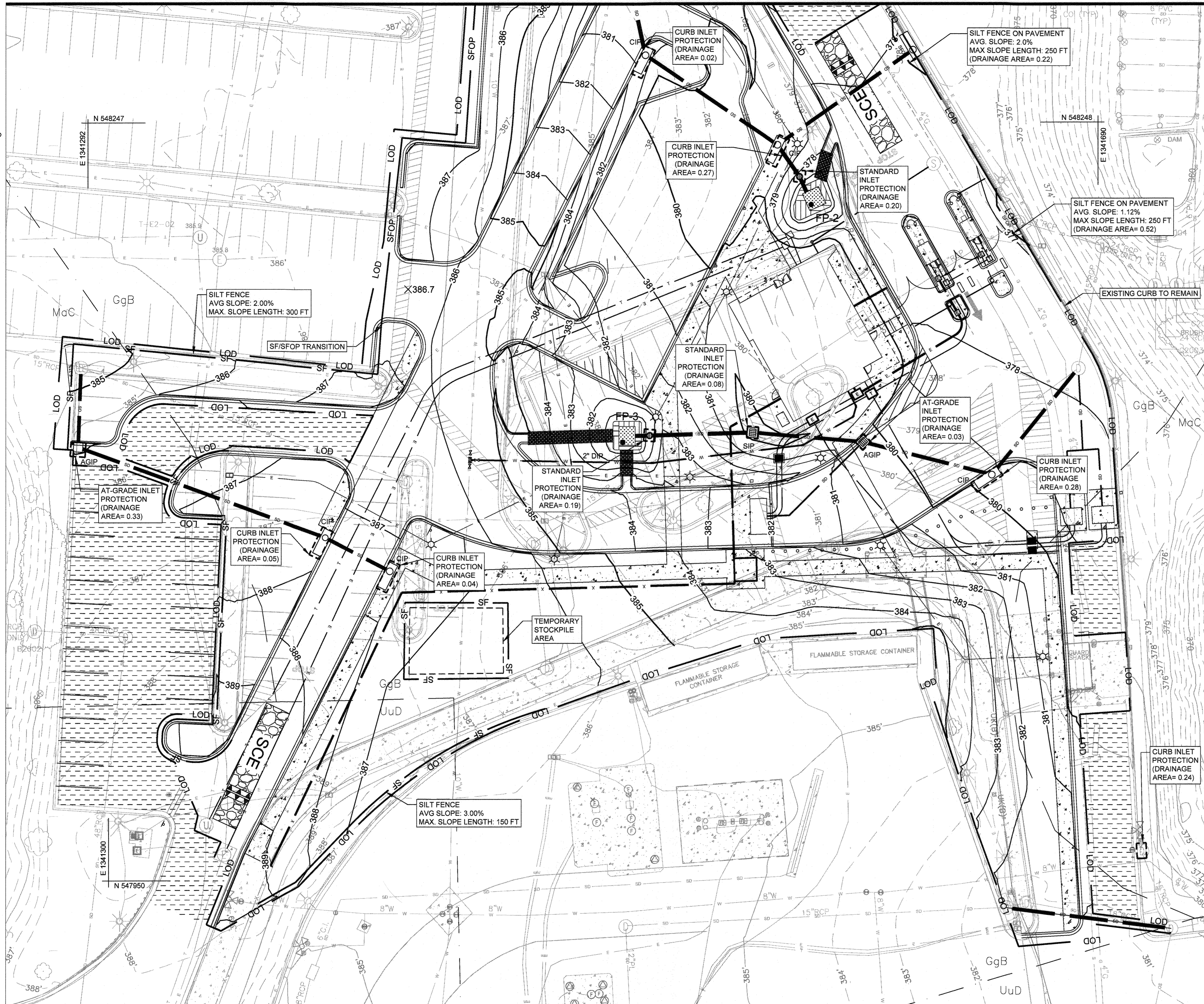
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DRAWN BY: TCM
CHECKED BY: EKM/CWMM
DATE: 04/10/24

| BY | NO. | REVISION | DATE |
|----|-----|----------|------|
| | | | |

OWNER/DEVELOPER
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LAUREL, MARYLAND 20723

ENVIRONMENTAL CONCEPT PLAN
JOHNS HOPKINS UNIVERSITY - APPLIED PHYSICS LABORATORY
B108 GATE4 IMPROVEMENTS PROJECT
11100 JOHNS HOPKINS ROAD
TAX MAP: 41 PARCEL: 123 GRID: 16 ZONED: PEC
ELECTION DISTRICT 5 - HOWARD COUNTY, MARYLAND
SHEET 03 OF 05

C-202
RK&K PROJECT NUMBER 23187
SCALE: As Shown



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3. FOR PROJECT GENERAL NOTES, SEE THE COVER SHEET.

STANDARD STABILIZATION NOTE

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, SEEDING FOR 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 GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING. ONCE VEGETATION IS ESTABLISHED, THE SITE SHALL HAVE 95% GROUND COVER TO BE CONSIDERED ADEQUATELY STABILIZED.

PERMANENT STABILIZATION NOTE

UNLESS OTHERWISE NOTED, ALL DISTURBED AREAS SHOULD RECEIVE 4" OF TOPSOIL AND SEED MIX CONTAINING 70% TURF TYPE TALL FESCUE AND 30% PERENNIAL RYE, WITH A CURLEX COVERING. LOOSE STRAW IS NOT PERMITTED.

ESC LEGEND

- LOD — LIMIT OF DISTURBANCE / LIMIT OF WORK
- SF — SILT FENCE
- SSF — SUPER SILT FENCE
- SFOP — SILT FENCE ON PAVEMENT
- — SOIL BOUNDARY
- CIP [] CURB INLET PROTECTION
- AGIP [] AT-GRADE INLET PROTECTION
- SIP [] STANDARD INLET PROTECTION
- [] SCE [] STABILIZED ENTRANCE CONSTRUCTION

SOIL SUMMARY TABLE

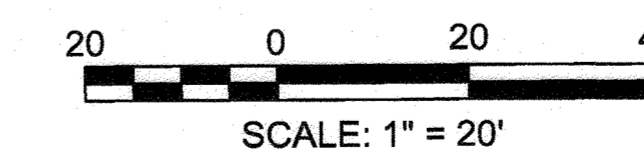
| SOIL | K-FACTOR | HYDROLOGIC SOIL GROUP |
|--------------------------------|----------|-----------------------|
| Ggb (GLENELG LOAM, 3-8% SLOPE) | 0.24 | B |
| MaC (MANOR LOAM, 8-15% SLOPE) | 0.28 | B |
| UuD (URBAN LAND (8-25% SLOPE)) | N/A | D |

TEMPORARY STOCKPILE NOTE

EXCESS CUT OR REQUIRED BORROW MATERIAL STOCKPILED ON SITE PRIOR TO ITS DISPOSAL OR USE SHALL BE LOCATED WITHIN THE DESIGNATED LIMIT OF DISTURBANCE IN SUCH A MANNER SO AS NOT TO INTERFERE WITH THE FUNCTION OF ANY EROSION/SEDIMENT CONTROL DEVICES.

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 DEVICE.
4. POSITIONED TO NOT ALTER DRAINAGE DIVIDES.



APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature]
 Chief, Development Engineering Division
 Date: 4/25/24
 Date: 4/24/23
 Chief, Division of Land Development

RK&K
 RUMMEL, KLEPPER & KAMM, LLP
 ENGINEERS/CONSTRUCTION MANAGERS/PLANNERS/SCIENTISTS
 RESPONSIVE PEOPLE • CREATIVE SOLUTIONS
 700 East Pratt Street, Suite 500
 Baltimore, MD 21202
 Ph: 410.728.2500 Contact: Matt Thomason
 www.rkk.com

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 48452. EXPIRATION DATE: MAY 31, 2024



DESIGN BY:
TCM
 DRAWN BY:
TCM
 CHECKED BY:
EKM/CWMM
 DATE:
04/10/24

| BY | NO. | REVISION | DATE |
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| | | | |

OWNER/DEVELOPER
JOHNS HOPKINS
APPLIED PHYSICS LABORATORY
 11100 JOHNS HOPKINS ROAD
 LAUREL, MARYLAND 20723

EROSION AND SEDIMENT CONTROL PLAN
 JOHNS HOPKINS UNIVERSITY - APPLIED PHYSICS LABORATORY
B108 GATE4 IMPROVEMENTS PROJECT

11100 JOHNS HOPKINS ROAD
 TAX MAP: 41 PARCEL: 123 GRID: 16 ZONED: PEC
 ELECTION DISTRICT 5 - HOWARD COUNTY, MARYLAND
 SHEET 04 OF 05

C-601

RK&K PROJECT NUMBER 23187

SCALE: As Shown

GENERAL NOTES

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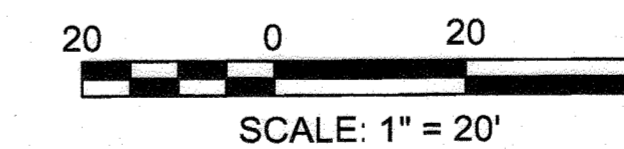
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MATCHLINE - SEE SHEET C-601



APPROVED: DEPARTMENT OF PLANNING AND ZONING

Ch/PLL
Chief, Development Engineering Division
Date: 4/25/24
Date: 4/24/23
Chief, Division of Land Development

RK&K
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700 East Pratt Street, Suite 500
Baltimore, MD 21202
Ph: 410.729.2300 Contact: Matt Thomason
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TAX MAP: 41 PARCEL: 123 GRID: 16 ZONED: PEC
ELECTION DISTRICT 5 - HOWARD COUNTY, MARYLAND
SHEET 05 OF 05

C-602
RK&K PROJECT NUMBER 23187
SCALE: As Shown