

PRELIMINARY / FINAL LAND DEVELOPMENT PLAN

FOR REGIONAL TRAFFIC MANAGEMENT CENTER AND PARKING STRUCTURE

FOR PENNSYLVANIA DEPARTMENT OF GENERAL SERVICES & DEPARTMENT OF TRANSPORTATION

UPPER MERION TOWNSHIP, MONTGOMERY COUNTY, PENNSYLVANIA

JUNE 21, 2020

UPPER MERION TOWNSHIP BOARD OF SUPERVISORS

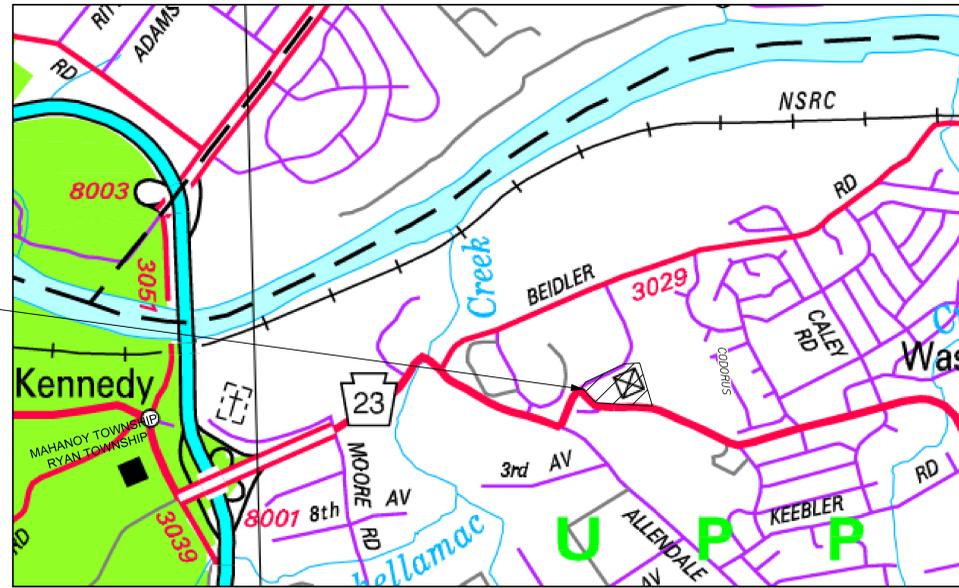
AT A MEETING HELD ON _____, THE BOARD OF SUPERVISORS OF THE TOWNSHIP OF UPPER MERION APPROVED THE LAND DEVELOPMENT PLAN OF THE PROPERTY OF _____, AS SHOWN HEREON.

CHAIRPERSON

TOWNSHIP MANAGER

TOWNSHIP ENGINEER (REVIEW BY)

PROJECT LOCATION



LOCATION MAP

1" = 2000'
0 1000 2000 FEET

PARCEL IDENTIFICATION

58-00-07814-80-4
DEED BOOK 5282 PAGE 02243
8.2329 ACRES
358,624.6600 SQUARE FEET

SHEET NO.	TITLE	SHEETS
CS-1	COVER SHEET *	1
C-100	EXISTING SITE AND PROPERTY*	1
C-200	DEMOLITION PLAN	1
C-300	SITE LAYOUT PLAN*	1
C-301	CURB LAYOUT PLAN	1
C-400	GRADING AND POST CONSTRUCTION PLAN*	1
C-401	UTILITY PLAN	1
C-402	CONDUIT PLAN	1
C-500	DRIVEWAY PROFILE	1
C-501	STORM PROFILES	1
C-600 TO C-601	LANDSCAPING PLAN AND DETAILS	2
C-602	LIGHTING PLAN	1
C-700	CONSTRUCTION LOGISTICS PLAN	1
C-800 TO C-802	EROSION & SEDIMENTATION POLLUTION CONTROL PLAN	3
C-900 TO C-901	EROSION & SEDIMENTATION POLLUTION CONTROL NOTES	2
C-902 TO C-904	EROSION & SEDIMENTATION POLLUTION CONTROL DETAILS	4
C-1000 TO C-1004	SITE CONSTRUCTION DETAILS	5
TOTAL SHEETS		27

* PLANS TO BE RECORDED IN THE MONTGOMERY COUNTY RECORDER OF DEEDS OFFICE.

NOT APPROVED FOR CONSTRUCTION

Rev	Date	By	Chk'd	Description

CHRISTOPHER GEORGE BENTZ
ENGINEER
NO. 19406
STATE OF PENNSYLVANIA

Alfred Benesch & Company
400 One Norwegian Plaza
Pottsville, Pennsylvania 17901
570-622-4055

KEVIN R. RICHARDS
ENGINEER
PE08742
STATE OF PENNSYLVANIA

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UPPER MERION TOWNSHIP ZONING VARIANCE

THE APPLICANT REQUESTED AND WAS GRANTED THE BELOW LISTED ZONING VARIANCES FOLLOWING THE CONCLUSION OF THE PUBLIC HEARING ON WEDNESDAY, JUNE 3, 2020:

1. A MINIMUM FRONT YARD SETBACK OF 38 FEET ALONG VALLEY FORGE ROAD
2. A MINIMUM 34 FOOT FRONT YARD ALONG PENNDOT POINTS.
3. A REDUCTION IN THE NUMBER OF REQUIRED PARKING SPACES TO 448 PARKING SPACES.
4. PARKING SPACE DIMENSIONS OF 9 FEET WIDE BY 18 FEET LONG.

SUMMARY OF WAIVERS

THE DEVELOPER IS REQUESTING THE FOLLOWING WAIVERS AS PART OF THIS PLAN:

CHAPTER 145-27A - PLAN SIZE - PENDING

RELATIVE TO THIS SECTION, THE APPLICANT IS REQUESTING TO HAVE THE MAXIMUM SHEET SIZE OF 36 INCHES BY 24 INCHES WAIVED AND ACCEPT THE LARGER SHEET SIZE OF 42 INCHES BY 30 INCHES ON THE BASIS THAT THE PLAN PROVIDES ADEQUATE DETAIL TO ACCOMPLISH THE INTENT OF THE PLAN WITHOUT EXCESS NUMBER OF SHEETS.

CHAPTER 140B-13.B.1(b) - RELEASE RATE - PENDING

RELATIVE TO THIS SECTION, THE APPLICANT IS REQUESTING TO WAIVE THE REQUIREMENT STATING PEAK DISCHARGES FROM THE SITE FOR A TEN-YEAR, TWENTY-FOUR HOUR STORM OF 5.0 INCHES SHALL NOT EXCEED THE BEFORE-DISTURBANCE PEAK DISCHARGE FROM A TWO-YEAR, TWENTY-FOUR HOUR STORM OF 3.2 INCHES OF RAINFALL. THE APPLICANT PROPOSED THE PEAK DISCHARGES OF ALL STORM EVENTS IN THE POST-DEVELOPMENT CONDITION SHALL NOT EXCEED 80% OF THE PEAK DISCHARGES FROM THE SITE OF THE SAME STORMS IN THE PRE-DEVELOPMENT CONDITION.

CHAPTER 140B-13.B.2(a)(2)(c) - BASIN BOTTOM SLOPE - PENDING

RELATIVE TO THIS SECTION, THE APPLICANT IS REQUESTING TO WAIVE THE REQUIREMENT STATING THE BASIN BOTTOM SHALL HAVE A MINIMUM GRADES. THE PROPOSED BASIN IS TO BE OVER-EXCAVATED AND BACKFILLED WITH A PLANTING SOL MEDIA WHICH IS DESIGNED TO EVAPOTRANSPIRE STORMWATER TO MEET CURRENT PAPER STORMWATER CRITERIA.

CHAPTER 140B-13.B.2(a)(2)(b) - BASIN BERM WIDTH - PENDING

RELATIVE TO THIS SECTION, THE APPLICANT IS REQUESTING TO WAIVE THE REQUIREMENT STATING THE MINIMUM TOP WIDTH OF THE BASIN BERM SHALL BE 10 FEET AND ALLOW A BASIN BERM WIDTH OF 8 FEET DUE TO SITE CONSTRAINTS.

CHAPTER 140B-13.B.2(a)(2)(c) - BASIN SIDE SLOPES - PENDING

RELATIVE TO THIS SECTION, THE APPLICANT IS REQUESTING TO WAIVE THE REQUIREMENT STATING THE MAXIMUM SLOPES OF A DETENTION BASIN SHALL BE THREE TO ONE AND ALLOW CUT SLOPES WITHIN THE DETENTION BASIN BE TWO TO ONE DUE TO SITE CONSTRAINTS. THE BERM IS PROPOSED TO HAVE THREE TO ONE SLOPES.

COUNTY RECORDER OF DEEDS

RECORDED IN THE OFFICE OF THE RECORDER OF DEEDS IN NORRISTOWN, PENNSYLVANIA IN PLAN

BOOK NO. _____ PAGE NO. _____ ON THE _____ DAY OF _____, 202__

COUNTY RECORDER OF DEEDS

ACT 287 NOTIFICATION

ALFRED BENESCH & COMPANY HEREBY STATES THAT, PURSUANT TO THE PROVISIONS OF ACT NO. 287 OF 1974, AS AMENDED THE PENNSYLVANIA LEGISLATURE, IT HAS PERFORMED THE FOLLOWING IN PREPARING THESE DRAWINGS REQUIRING EXCAVATION OR DEMOLITION WORK AT SITES WITHIN THE POLITICAL SUBDIVISION(S) SHOWN ON THE DRAWINGS:

1. PURSUANT TO SECTION 4, CLAUSE (2) OF SAID ACT, ALFRED BENESCH & COMPANY REQUESTED FROM EACH USER'S OFFICE DESIGNATED ON SUCH LIST PROVIDED BY THE ONE CALL SYSTEM NOTIFICATION, THE INFORMATION PRESCRIBED BY SECTION 2, CLAUSE (4) OF SAID ACT, NOT LESS THAN (10) NOR MORE THAN (90) WORKING DAYS BEFORE FINAL DESIGN IS TO BE COMPLETED.
2. PURSUANT TO SECTION 4, CLAUSE (5) OF SAID ACT, ALFRED BENESCH & COMPANY HAS MET THEIR OBLIGATION OF CLAUSE (2) BY CALLING THE ONE CALL SYSTEM SERVING THE LOCATION WHERE EXCAVATION IS TO BE PERFORMED.
3. PURSUANT TO SECTION 4, CLAUSE (3) OF SAID ACT, ALFRED BENESCH & COMPANY HAS SHOWN UPON THESE DRAWINGS THE POSITION AND TYPE OF EACH LINE, AS DERIVED PURSUANT TO THE REQUEST MADE AS REQUIRED BY CLAUSE (2), THE SERIAL NUMBER PROVIDED BY THE ONE CALL SYSTEM, THE TOLL-FREE ONE CALL SYSTEM PHONE NUMBER, AND THE NAME OF THE USER, THE USER'S DESIGNATED OFFICE ADDRESS AND PHONE NUMBER AS SHOWN ON THE LIST REFERRED TO IN SECTION 4, CLAUSE (5) OF SAID ACT.

ALFRED BENESCH & COMPANY DOES NOT MAKE ANY REPRESENTATION, WARRANTY, ASSURANCE OR GUARANTEE THAT THE INFORMATION RECEIVED PURSUANT TO SAID REQUEST AND AS REFLECTED ON THESE DRAWINGS IS CORRECT OR ACCURATE, BUT ALFRED BENESCH & COMPANY IS REFLECTING SAID INFORMATION ON THESE DRAWINGS ONLY DUE TO THE REQUIREMENTS OF THE SAID ACT NO. 121 OF 2008.

ONE CALL SYSTEM SERIAL NO. NOTIFICATION:

DATE: 02/08/2020

ONE CALL SYSTEM SERIAL NUMBER: 20200390258

LIST OF UTILITIES

- | | |
|---|--|
| AT&T
7555 E PLEASANT VALLEY ROAD SUITE 140
INDEPENDENCE, OH, 44131
CONTACT: MIKE DIEDERICH
EMAIL: md4145@att.com | PECO ENERGY C/O USIC
450 S HENDERSON RD SUITE B
KING OF PRUSSIA, PA 19406
CONTACT: NIKKIA SIMPKINS
EMAIL: nikkiasimpkins@usicil.com |
| COMCAST
1 APOLLO ROAD
PLYMOUTH MEETING, PA 19462
CONTACT: TOM DEMSEY | CENTURY LINK
1025 ELDORADO BLVD
BROOMFIELD, CO 80021
CONTACT: CENTURY LINK OPERATOR PERSONNEL
EMAIL: nationdrel@centurylink.com |
| UPPER MERION TOWNSHIP
175 W VALLEY FORGE ROAD
KING OF PRUSSIA, PA, 19406
CONTACT: TODD LACHENMAYER
EMAIL: tlachenmayer@umt.township.org | VERIZON BUSINESS FORMERLY MCI
400 INTERNATIONAL PARKWAY
RICHARDSON, TX 75081
DEAN BOYERS
EMAIL: investigations@verizon.com |
| UPPER MERION SANITARY AND STORMWATER AUTHORITY
175 W VALLEY FORGE ROAD
KING OF PRUSSIA, PA, 19406
CONTACT: DAN LEGERTON
EMAIL: dlegerton@umt.township.org | ZAYO BANDWIDTH FORMERLY PPL TELECOM LLC
1060 HARDESS DRIVE UNIT H
ABERDEEN, MD, 21001
CONTACT: GEORGE HUSS
EMAIL: george.huss@zayo.com |
| COMCAST
4400 WAYNE AVENUE
PHILADELPHIA, PA, 19140
CONTACT: ROBERT HARVEY
EMAIL: bob_harvey@cable.comcast.com | TERRADEX INC
855 EL CAMINO REAL #309
PALO ALTO, CA, 94301
CONTACT: KEITH HOOPER
EMAIL: operator@terradex.com |
| AQUA PENNSYLVANIA INC
762 W LANCASTER AVE
BRYN MAWR, PA 19010
CONTACT: STEVE PIZZI
EMAIL: sbpizzi@aquamerica.com | VERIZON PENNSYLVANIA, LLC
FORT WASHINGTON, PA 19034
CONTACT: DARLINE LEPPERD JOHNSON |



Dial 8-1-1 or 1-800-242-1776 not less than 3 business days nor more than 10 business days prior to the start of excavation

Pennsylvania One Call System Serial Number
20200390258

ENGINEER'S CERTIFICATION

CERTIFICATION OF ACCURACY AND COMPLETENESS

I, CHRISTOPHER G. BENTZ, A REGISTERED PROFESSIONAL ENGINEER OF THE COMMONWEALTH OF PENNSYLVANIA DO HEREBY CERTIFY THAT THE PLAN SHOWN AND DESCRIBED HEREON, IS TRUE AND CORRECT TO THE ACCURACY AND COMPLETENESS REQUIRED BY THE SUBDIVISION AND LAND DEVELOPMENT ORDINANCE OF UPPER MERION TOWNSHIP.

Christopher G. Bentz

6/21/2020

SIGNATURE OF PROFESSIONAL
CHRISTOPHER G. BENTZ, P.E.

DATE

SIGNATURE OF OFFICER _____ TITLE _____

THE UNDERSIGNED HEREBY CERTIFIED THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF THE INFORMATION AND STATEMENTS GIVEN ARE TRUE AND CORRECT.

SIGNATURE OF NOTARY PUBLIC _____

MY COMMISSION EXPIRES _____

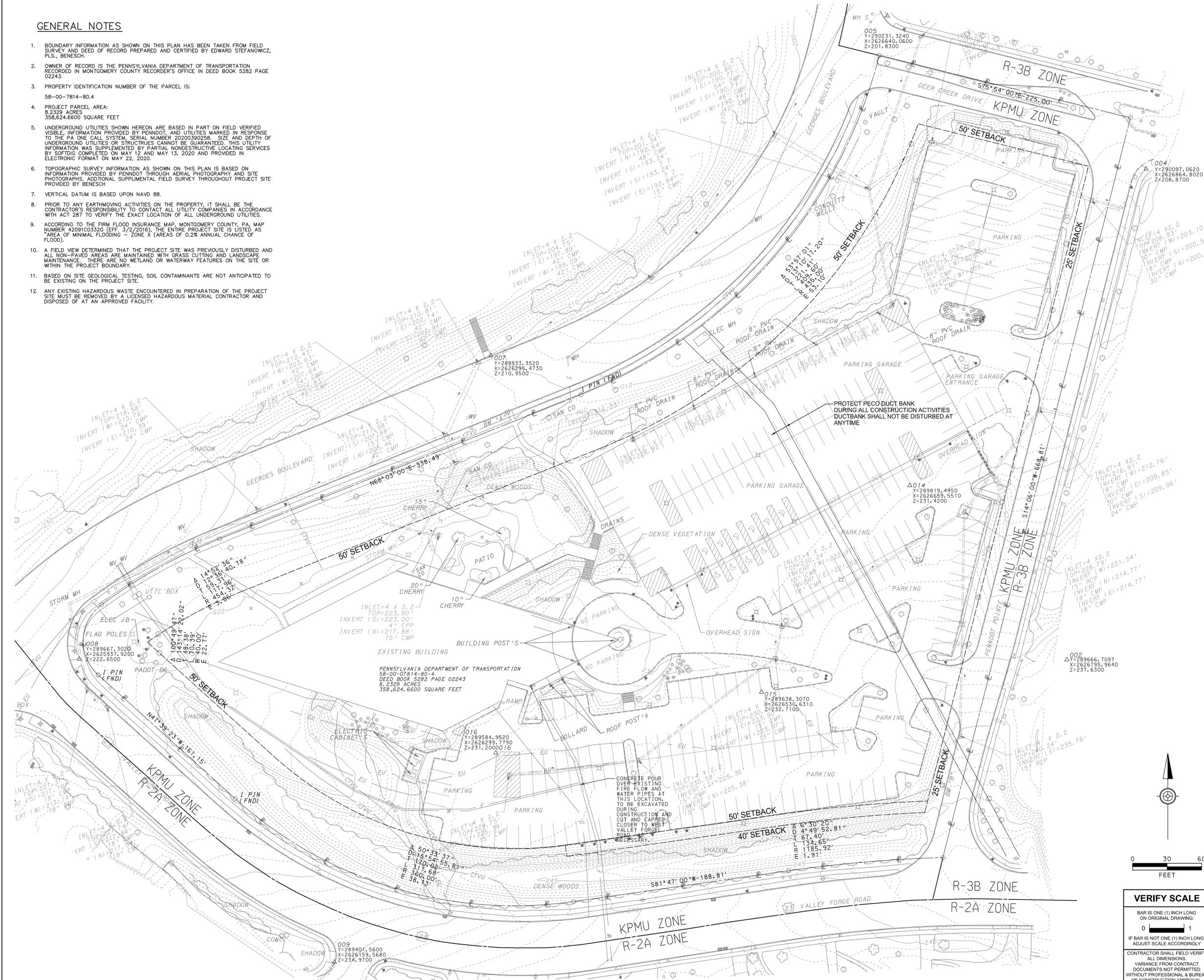
NAME & ADDRESS OF OWNER & APPLICANT

PENNSYLVANIA DEPARTMENT OF GENERAL SERVICES
PENNSYLVANIA DEPARTMENT OF TRANSPORTATION
7000 GERDES BOULEVARD
KING OF FRUSSIA, PA 19406
PHONE: (610) 205-6661
ATTN: MR. CRAIG ZIMMERMAN
ATTN: MR. KENNETH M. MCCLAIN

MONTGOMERY COUNTY PLANNING COMMISSION

GENERAL NOTES

- BOUNDARY INFORMATION AS SHOWN ON THIS PLAN HAS BEEN TAKEN FROM FIELD SURVEY AND DEED OF RECORD PREPARED AND CERTIFIED BY EDWARD STEFANOWICZ, P.L.S., BENESCH.
- OWNER OF RECORD IS THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION RECORDED IN MONTGOMERY COUNTY RECORDER'S OFFICE IN DEED BOOK 5282 PAGE 02243.
- PROPERTY IDENTIFICATION NUMBER OF THE PARCEL IS:
58-00-7814-80.4
- PROJECT PARCEL AREA:
8.2329 ACRES
358,624.6600 SQUARE FEET
- UNDERGROUND UTILITIES SHOWN HEREON ARE BASED IN PART ON FIELD VERIFIED VISIBLE, INFORMATION PROVIDED BY PENNDOT, AND UTILITIES MARKED IN RESPONSE TO THE PA ONE CALL SYSTEM, SERIAL NUMBER 20200390258. SIZE AND DEPTH OF UNDERGROUND UTILITIES OR STRUCTURES CANNOT BE GUARANTEED. THIS UTILITY INFORMATION WAS SUPPLEMENTED BY PARTIAL NONDESTRUCTIVE LOCATING SERVICES BY SOFTDIG COMPLETED ON MAY 12 AND MAY 13, 2020 AND PROVIDED IN ELECTRONIC FORMAT ON MAY 22, 2020.
- TOPOGRAPHIC SURVEY INFORMATION AS SHOWN ON THIS PLAN IS BASED ON INFORMATION PROVIDED BY PENNDOT THROUGH AERIAL PHOTOGRAPHY AND SITE PHOTOGRAPHS. ADDITIONAL SUPPLEMENTAL FIELD SURVEY THROUGHOUT PROJECT SITE PROVIDED BY BENESCH.
- VERTICAL DATUM IS BASED UPON NAVD 88.
- PRIOR TO ANY EARTHMOVING ACTIVITIES ON THE PROPERTY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES IN ACCORDANCE WITH ACT 287 TO VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES.
- ACCORDING TO THE FIRM FLOOD INSURANCE MAP, MONTGOMERY COUNTY, PA, MAP NUMBER 42091C03326 (EFF. 3/2/2016), THE ENTIRE PROJECT SITE IS LISTED AS AREA OF MINIMAL FLOODING - ZONE X (AREAS OF 0.2% ANNUAL CHANCE OF FLOOD).
- A FIELD VIEW DETERMINED THAT THE PROJECT SITE WAS PREVIOUSLY DISTURBED AND ALL NON-PAVED AREAS ARE MAINTAINED WITH GRASS CUTTING AND LANDSCAPE MAINTENANCE. THERE ARE NO WETLAND OR WATERWAY FEATURES ON THE SITE OR WITHIN THE PROJECT BOUNDARY.
- BASED ON SITE GEOLOGICAL TESTING, SOIL CONTAMINANTS ARE NOT ANTICIPATED TO BE EXISTING ON THE PROJECT SITE.
- ANY EXISTING HAZARDOUS WASTE ENCOUNTERED IN PREPARATION OF THE PROJECT SITE MUST BE REMOVED BY A LICENSED HAZARDOUS MATERIAL CONTRACTOR AND DISPOSED OF AT AN APPROVED FACILITY.



PROTECT PECO DUCT BANK
DURING ALL CONSTRUCTION ACTIVITIES
DUCT BANK SHALL NOT BE DISTURBED AT
ANYTIME

PENNSYLVANIA DEPARTMENT OF TRANSPORTATION
58-00-07814-80-4
DEED BOOK 5282 PAGE 02243
8.2329 ACRES
358,624.6600 SQUARE FEET

NOT APPROVED FOR CONSTRUCTION

RECORD REVISIONS



benesch
Alfred Benesch & Company
250 Cetronia Road, Suite 150
Allentown, Pennsylvania 18104
610-439-7056

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
DGS C-0251-0095 PHASE 1-1

REGIONAL TRAFFIC MANAGEMENT
CENTER AND PARKING STRUCTURE
DEPARTMENT OF TRANSPORTATION
King of Prussia, Upper Merion Township
Montgomery County, PA

EXISTING SITE AND PROPERTY



VERIFY SCALE

BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 1

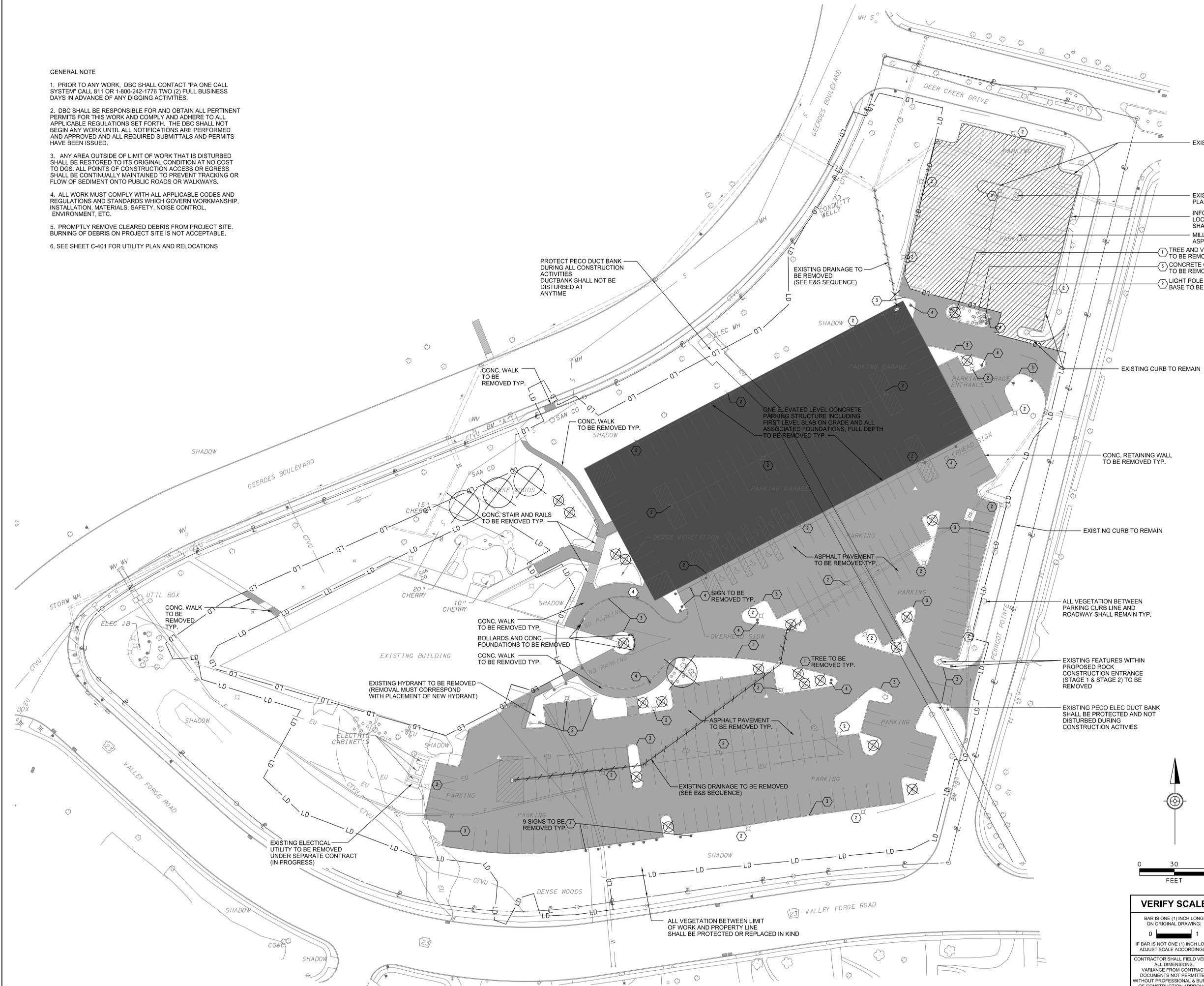
IF BAR IS NOT ONE (1) INCH LONG
ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY
ALL DIMENSIONS.
VARIANCE FROM CONTRACT
DOCUMENTS NOT PERMITTED
WITHOUT PROFESSIONAL & BUREAU
OF CONSTRUCTION APPROVAL.

DRAWN BY RMD	DATE 06/21/2020	DRAWING No. C-100
CHECKED BY CGB	SCALE 1" = 30 FT	

GENERAL NOTE

1. PRIOR TO ANY WORK, DBC SHALL CONTACT "PA ONE CALL SYSTEM" CALL 811 OR 1-800-242-1776 TWO (2) FULL BUSINESS DAYS IN ADVANCE OF ANY DIGGING ACTIVITIES.
2. DBC SHALL BE RESPONSIBLE FOR AND OBTAIN ALL PERTINENT PERMITS FOR THIS WORK AND COMPLY AND ADHERE TO ALL APPLICABLE REGULATIONS SET FORTH. THE DBC SHALL NOT BEGIN ANY WORK UNTIL ALL NOTIFICATIONS ARE PERFORMED AND APPROVED AND ALL REQUIRED SUBMITTALS AND PERMITS HAVE BEEN ISSUED.
3. ANY AREA OUTSIDE OF LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO DGS. ALL POINTS OF CONSTRUCTION ACCESS OR EGRESS SHALL BE CONTINUALLY MAINTAINED TO PREVENT TRACKING OR FLOW OF SEDIMENT ONTO PUBLIC ROADS OR WALKWAYS.
4. ALL WORK MUST COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS AND STANDARDS WHICH GOVERN WORKMANSHIP, INSTALLATION, MATERIALS, SAFETY, NOISE CONTROL, ENVIRONMENT, ETC.
5. PROMPTLY REMOVE CLEARED DEBRIS FROM PROJECT SITE. BURNING OF DEBRIS ON PROJECT SITE IS NOT ACCEPTABLE.
6. SEE SHEET C-401 FOR UTILITY PLAN AND RELOCATIONS



- EXISTING CURB TO REMAIN
- EXISTING TREE AND PLANTING TO REMAIN
- INFORMATION TECHNOLOGY LOCATED ON LIGHT POLE SHALL REMAIN UNDISTURBED
- MILL EXISTING ASPHALT PAVEMENT
- 1 TREE AND VEGETATION TO BE REMOVED TYP.
- 3 CONCRETE CURB TO BE REMOVED TYP.
- 2 LIGHT POLE AND CONC. BASE TO BE REMOVED TYP.

LEGEND

- 1 (with cross) TREE TO BE REMOVED
- 2 (with cross) LIGHT POLE AND CONCRETE BASE TO BE REMOVED
- 3 (with cross) CONCRETE CURB TO BE REMOVED
- 4 (with cross) SIGN TO BE REMOVED
- ASPHALT/CONCRETE PAVEMENT TO BE REMOVED
- PARKING GARAGE TO BE REMOVED
- ASPHALT PAVEMENT TO BE MILLED
- LD LIMIT OF DISTURBANCE NOT APPROVED FOR CONSTRUCTION

RECORD REVISIONS



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No. DGS C-0251-0095 PHASE 1-1

REGIONAL TRAFFIC MANAGEMENT CENTER AND PARKING STRUCTURE
DEPARTMENT OF TRANSPORTATION
King of Prussia, Upper Merion Township
Montgomery County, PA

DEMOLITION PLAN

DRAWN BY: RMD	DATE: 06/21/2020	DRAWING No.:
CHECKED BY: CGB	SCALE: 1" = 30 FT	C-200



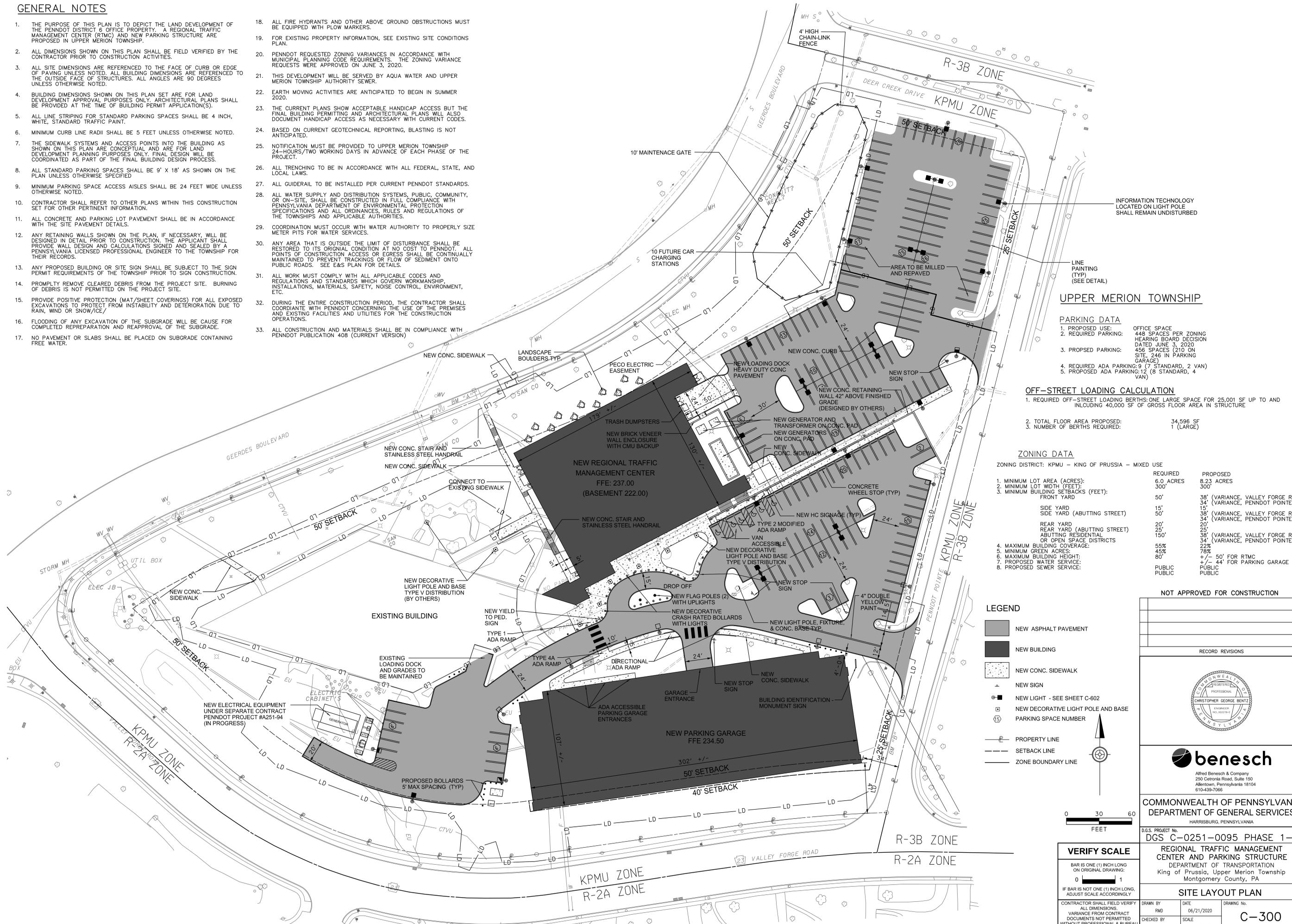
VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

GENERAL NOTES

- THE PURPOSE OF THIS PLAN IS TO DEPICT THE LAND DEVELOPMENT OF THE PENNDOT DISTRICT 6 OFFICE PROPERTY. A REGIONAL TRAFFIC MANAGEMENT CENTER (RTMC) AND NEW PARKING STRUCTURE ARE PROPOSED IN UPPER MERION TOWNSHIP.
- ALL DIMENSIONS SHOWN ON THIS PLAN SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION ACTIVITIES.
- ALL SITE DIMENSIONS ARE REFERENCED TO THE FACE OF CURB OR EDGE OF PAVING UNLESS NOTED. ALL BUILDING DIMENSIONS ARE REFERENCED TO THE OUTSIDE FACE OF STRUCTURES. ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE NOTED.
- BUILDING DIMENSIONS SHOWN ON THIS PLAN SET ARE FOR LAND DEVELOPMENT APPROVAL PURPOSES ONLY. ARCHITECTURAL PLANS SHALL BE PROVIDED AT THE TIME OF BUILDING PERMIT APPLICATION(S).
- ALL LINE STRIPING FOR STANDARD PARKING SPACES SHALL BE 4 INCH, WHITE, STANDARD TRAFFIC PAINT.
- MINIMUM CURB LINE RADII SHALL BE 5 FEET UNLESS OTHERWISE NOTED.
- THE SIDEWALK SYSTEMS AND ACCESS POINTS INTO THE BUILDING AS SHOWN ON THIS PLAN ARE CONCEPTUAL AND ARE FOR LAND DEVELOPMENT PLANNING PURPOSES ONLY. FINAL DESIGN WILL BE COORDINATED AS PART OF THE FINAL BUILDING DESIGN PROCESS.
- ALL STANDARD PARKING SPACES SHALL BE 9' X 18' AS SHOWN ON THE PLAN UNLESS OTHERWISE SPECIFIED
- MINIMUM PARKING SPACE ACCESS AISLES SHALL BE 24 FEET WIDE UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION.
- ALL CONCRETE AND PARKING LOT PAVEMENT SHALL BE IN ACCORDANCE WITH THE SITE PAVEMENT DETAILS.
- ANY RETAINING WALLS SHOWN ON THE PLAN, IF NECESSARY, WILL BE DESIGNED IN DETAIL PRIOR TO CONSTRUCTION. THE APPLICANT SHALL PROVIDE WALL DESIGN AND CALCULATIONS SIGNED AND SEALED BY A PENNSYLVANIA LICENSED PROFESSIONAL ENGINEER TO THE TOWNSHIP FOR THEIR RECORDS.
- ANY PROPOSED BUILDING OR SITE SIGN SHALL BE SUBJECT TO THE SIGN PERMIT REQUIREMENTS OF THE TOWNSHIP PRIOR TO SIGN CONSTRUCTION.
- PROMPTLY REMOVE CLEARED DEBRIS FROM THE PROJECT SITE. BURNING OF DEBRIS IS NOT PERMITTED ON THE PROJECT SITE.
- PROVIDE POSITIVE PROTECTION (MAT/SHEET COVERINGS) FOR ALL EXPOSED EXCAVATIONS TO PROTECT FROM INSTABILITY AND DETERIORATION DUE TO RAIN, WIND OR SNOW/ICE/
- FLOODING OF ANY EXCAVATION OF THE SUBGRADE WILL BE CAUSE FOR COMPLETED REPAIR AND REAPPROVAL OF THE SUBGRADE.
- NO PAVEMENT OR SLABS SHALL BE PLACED ON SUBGRADE CONTAINING FREE WATER.
- ALL FIRE HYDRANTS AND OTHER ABOVE GROUND OBSTRUCTIONS MUST BE EQUIPPED WITH PLOW MARKERS.
- FOR EXISTING PROPERTY INFORMATION, SEE EXISTING SITE CONDITIONS PLAN.
- PENNDOT REQUESTED ZONING VARIANCES IN ACCORDANCE WITH MUNICIPAL PLANNING CODE REQUIREMENTS. THE ZONING VARIANCE REQUESTS WERE APPROVED ON JUNE 3, 2020.
- THIS DEVELOPMENT WILL BE SERVED BY AQUA WATER AND UPPER MERION TOWNSHIP AUTHORITY SEWER.
- EARTH MOVING ACTIVITIES ARE ANTICIPATED TO BEGIN IN SUMMER 2020.
- THE CURRENT PLANS SHOW ACCEPTABLE HANDICAP ACCESS BUT THE FINAL BUILDING PERMITTING AND ARCHITECTURAL PLANS WILL ALSO DOCUMENT HANDICAP ACCESS AS NECESSARY WITH CURRENT CODES.
- BASED ON CURRENT GEOTECHNICAL REPORTING, BLASTING IS NOT ANTICIPATED.
- NOTIFICATION MUST BE PROVIDED TO UPPER MERION TOWNSHIP 24-HOURS/TWO WORKING DAYS IN ADVANCE OF EACH PHASE OF THE PROJECT.
- ALL TRENCHING TO BE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS.
- ALL GUIDERAIL TO BE INSTALLED PER CURRENT PENNDOT STANDARDS.
- ALL WATER SUPPLY AND DISTRIBUTION SYSTEMS, PUBLIC, COMMUNITY, OR ON-SITE, SHALL BE CONSTRUCTED IN FULL COMPLIANCE WITH PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION SPECIFICATIONS AND ALL ORDINANCES, RULES AND REGULATIONS OF THE TOWNSHIPS AND APPLICABLE AUTHORITIES.
- COORDINATION MUST OCCUR WITH WATER AUTHORITY TO PROPERLY SIZE METER PITS FOR WATER SERVICES.
- ANY AREA THAT IS OUTSIDE THE LIMIT OF DISTURBANCE SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO PENNDOT. ALL POINTS OF CONSTRUCTION ACCESS OR EGRESS SHALL BE CONTINUALLY MAINTAINED TO PREVENT TRACKINGS OR FLOW OF SEDIMENT ONTO PUBLIC ROADS. SEE E&S PLAN FOR DETAILS.
- ALL WORK MUST COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS AND STANDARDS WHICH GOVERN WORKMANSHIP, INSTALLATIONS, MATERIALS, SAFETY, NOISE CONTROL, ENVIRONMENT, ETC.
- DURING THE ENTIRE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL COORDINATE WITH PENNDOT CONCERNING THE USE OF THE PREMISES AND EXISTING FACILITIES AND UTILITIES FOR THE CONSTRUCTION OPERATIONS.
- ALL CONSTRUCTION AND MATERIALS SHALL BE IN COMPLIANCE WITH PENNDOT PUBLICATION 408 (CURRENT VERSION)



INFORMATION TECHNOLOGY LOCATED ON LIGHT POLE SHALL REMAIN UNDISTURBED

LINE PAINTING (TYP) (SEE DETAIL)

UPPER MERION TOWNSHIP

PARKING DATA

- PROPOSED USE: OFFICE SPACE
- REQUIRED PARKING: 448 SPACES PER ZONING HEARING BOARD DECISION DATED JUNE 3, 2020
- PROPOSED PARKING: 456 SPACES (210 ON SITE, 246 IN PARKING GARAGE)
- REQUIRED ADA PARKING: 9 (7 STANDARD, 2 VAN)
- PROPOSED ADA PARKING: 12 (8 STANDARD, 4 VAN)

OFF-STREET LOADING CALCULATION

- REQUIRED OFF-STREET LOADING BERTHS: ONE LARGE SPACE FOR 25,001 SF UP TO AND INCLUDING 40,000 SF OF GROSS FLOOR AREA IN STRUCTURE
- TOTAL FLOOR AREA PROPOSED: 34,596 SF
- NUMBER OF BERTHS REQUIRED: 1 (LARGE)

ZONING DATA

ZONING DISTRICT: KPMU - KING OF PRUSSIA - MIXED USE

	REQUIRED	PROPOSED
1. MINIMUM LOT AREA (ACRES):	6.0 ACRES	8.23 ACRES
2. MINIMUM LOT WIDTH (FEET):	300'	300'
3. MINIMUM BUILDING SETBACKS (FEET):		
FRONT YARD	50'	38' (VARIANCE, VALLEY FORGE RD)
SIDE YARD	15'	15' (VARIANCE, PENNDOT POINTE)
SIDE YARD (ABUTTING STREET)	50'	38' (VARIANCE, VALLEY FORGE RD)
REAR YARD	20'	34' (VARIANCE, PENNDOT POINTE)
REAR YARD (ABUTTING STREET)	25'	25'
ABUTTING RESIDENTIAL OR OPEN SPACE DISTRICTS	150'	38' (VARIANCE, VALLEY FORGE RD)
4. MAXIMUM BUILDING COVERAGE:	55%	22%
5. MINIMUM GREEN ACRES:	45%	78%
6. MAXIMUM BUILDING HEIGHT:	80'	+/- 50' FOR RTMC
7. PROPOSED WATER SERVICE:	PUBLIC	PUBLIC
8. PROPOSED SEWER SERVICE:	PUBLIC	PUBLIC

LEGEND

- NEW ASPHALT PAVEMENT
- NEW BUILDING
- NEW CONC. SIDEWALK
- NEW SIGN
- NEW LIGHT - SEE SHEET C-602
- NEW DECORATIVE LIGHT POLE AND BASE
- PARKING SPACE NUMBER
- PROPERTY LINE
- SETBACK LINE
- ZONE BOUNDARY LINE



NOT APPROVED FOR CONSTRUCTION

RECORD REVISIONS

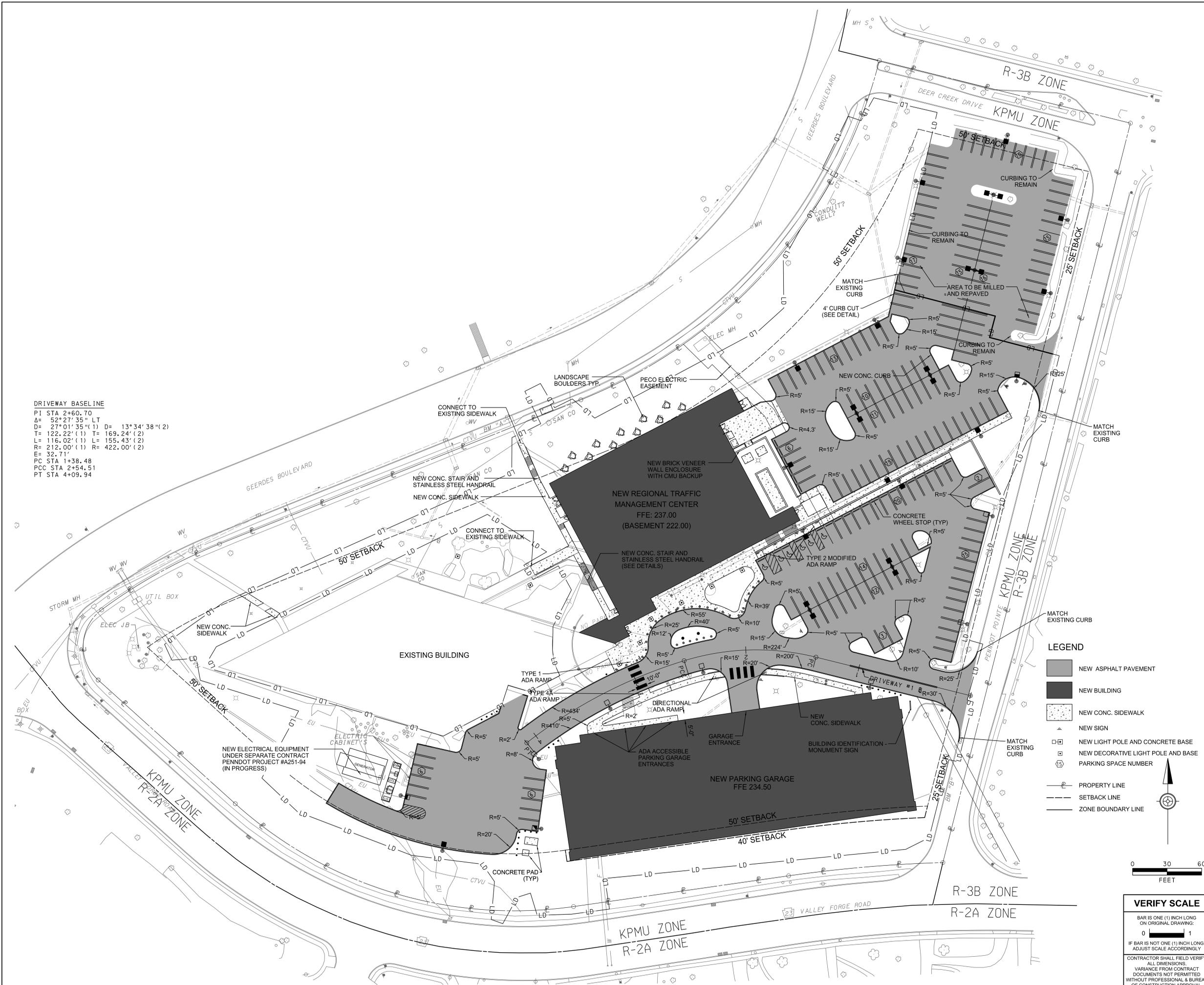
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No. DGS C-0251-0095 PHASE 1-1
REGIONAL TRAFFIC MANAGEMENT CENTER AND PARKING STRUCTURE
DEPARTMENT OF TRANSPORTATION
King of Prussia, Upper Merion Township
Montgomery County, PA

SITE LAYOUT PLAN

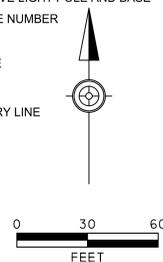
DRAWN BY: RMD	DATE: 06/21/2020	DRAWING No.:
CHECKED BY: CGB	SCALE: 1" = 30 FT	C-300

DRIVEWAY BASELINE
 PI STA 2+60.70
 Δ= 52°27'35" LT
 D= 27°01'35" (1) D= 13°34'38" (2)
 T= 122.22' (1) T= 169.24' (2)
 L= 116.02' (1) L= 155.43' (2)
 R= 212.00' (1) R= 422.00' (2)
 E= 32.71'
 PC STA 1+38.48
 PCC STA 2+54.51
 PT STA 4+09.94



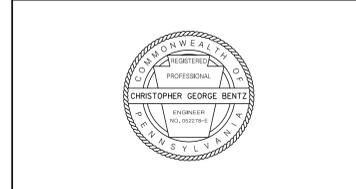
LEGEND

- NEW ASPHALT PAVEMENT
- NEW BUILDING
- NEW CONC. SIDEWALK
- NEW SIGN
- NEW LIGHT POLE AND CONCRETE BASE
- NEW DECORATIVE LIGHT POLE AND BASE
- PARKING SPACE NUMBER
- PROPERTY LINE
- SETBACK LINE
- ZONE BOUNDARY LINE



NOT APPROVED FOR CONSTRUCTION

RECORD REVISIONS



benesch
 Alfred Benesch & Company
 250 Catronia Road, Suite 150
 Allentown, Pennsylvania 18104
 E10-429-7066

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF GENERAL SERVICES
 HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
DGS C-0251-0095 PHASE 1-1

REGIONAL TRAFFIC MANAGEMENT CENTER AND PARKING STRUCTURE
 DEPARTMENT OF TRANSPORTATION
 King of Prussia, Upper Merion Township
 Montgomery County, PA

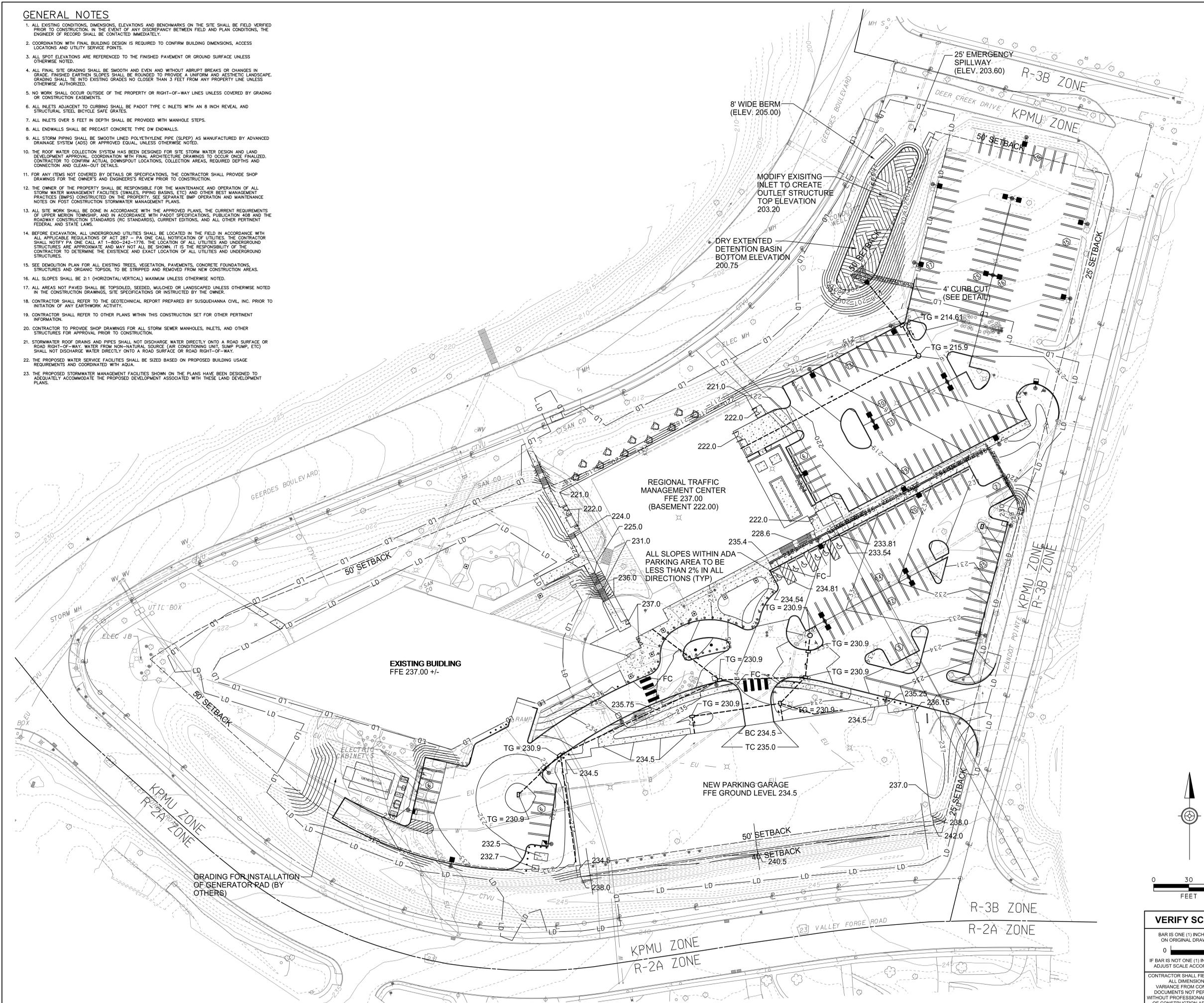
CURB LAYOUT PLAN

DRAWN BY RMD	DATE 06/21/2020	DRAWING No. C-301
CHECKED BY CGB	SCALE 1" = 30' FT	

VERIFY SCALE
 BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING.
 0 1
 IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY.
 CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
 VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

GENERAL NOTES

- ALL EXISTING CONDITIONS, DIMENSIONS, ELEVATIONS AND BENCHMARKS ON THE SITE SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. IN THE EVENT OF ANY DISCREPANCY BETWEEN FIELD AND PLAN CONDITIONS, THE ENGINEER OF RECORD SHALL BE CONTACTED IMMEDIATELY.
- COORDINATION WITH FINAL BUILDING DESIGN IS REQUIRED TO CONFIRM BUILDING DIMENSIONS, ACCESS LOCATIONS AND UTILITY SERVICE POINTS.
- ALL SPOT ELEVATIONS ARE REFERENCED TO THE FINISHED PAVEMENT OR GROUND SURFACE UNLESS OTHERWISE NOTED.
- ALL FINAL SITE GRADING SHALL BE SMOOTH AND EVEN AND WITHOUT ABRUPT BREAKS OR CHANGES IN GRADE. FINISHED EARTHEN SLOPES SHALL BE ROUNDED TO PROVIDE A UNIFORM AND AESTHETIC LANDSCAPE. GRADING SHALL BE INTO EXISTING GRADES NO CLOSER THAN 3 FEET FROM ANY PROPERTY LINE UNLESS OTHERWISE AUTHORIZED.
- NO WORK SHALL OCCUR OUTSIDE OF THE PROPERTY OR RIGHT-OF-WAY LINES UNLESS COVERED BY GRADING OR CONSTRUCTION EASEMENTS.
- ALL INLETS ADJACENT TO CURBING SHALL BE PADOT TYPE C INLETS WITH AN 8 INCH REVEAL AND STRUCTURAL STEEL BICYCLE SAFE GRATES.
- ALL INLETS OVER 5 FEET IN DEPTH SHALL BE PROVIDED WITH MANHOLE STEPS.
- ALL ENDWALLS SHALL BE PRECAST CONCRETE TYPE DW ENDWALLS.
- ALL STORM PIPING SHALL BE SMOOTH LINED POLYETHYLENE PIPE (SLPEP) AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEM (ADS) OR APPROVED EQUAL, UNLESS OTHERWISE NOTED.
- THE ROOF WATER COLLECTION SYSTEM HAS BEEN DESIGNED FOR SITE STORM WATER DESIGN AND LAND DEVELOPMENT APPROVAL. COORDINATION WITH FINAL ARCHITECTURE DRAWINGS TO OCCUR ONCE FINALIZED. CONTRACTOR TO CONFIRM ACTUAL DOWNSPOUT LOCATIONS, COLLECTION AREAS, REQUIRED DEPTHS AND CONNECTION AND CLEAN-OUT DETAILS.
- FOR ANY ITEMS NOT COVERED BY DETAILS OR SPECIFICATIONS, THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR THE OWNER'S AND ENGINEER'S REVIEW PRIOR TO CONSTRUCTION.
- THE OWNER OF THE PROPERTY SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND OPERATION OF ALL STORM WATER MANAGEMENT FACILITIES (SWALES, PIPING BASINS, ETC) AND OTHER BEST MANAGEMENT PRACTICES (BMPs) CONSTRUCTED ON THE PROPERTY. SEE SEPARATE BMP OPERATION AND MAINTENANCE NOTES ON POST CONSTRUCTION STORMWATER MANAGEMENT PLANS.
- ALL SITE WORK SHALL BE DONE IN ACCORDANCE WITH THE APPROVED PLANS, THE CURRENT REQUIREMENTS OF UPPER MERION TOWNSHIP, AND IN ACCORDANCE WITH PADOT SPECIFICATIONS, PUBLICATION 408 AND THE ROADWAY CONSTRUCTION STANDARDS (RC STANDARDS), CURRENT EDITIONS, AND ALL OTHER PERTINENT FEDERAL AND STATE LAWS.
- BEFORE EXCAVATION, ALL UNDERGROUND UTILITIES SHALL BE LOCATED IN THE FIELD IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS OF ACT 287 - PA ONE CALL NOTIFICATION OF UTILITIES. THE CONTRACTOR SHALL NOTIFY PA ONE CALL AT 1-800-242-1776. THE LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES ARE APPROXIMATE AND MAY NOT ALL BE SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND EXACT LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES.
- SEE DEMOLITION PLAN FOR ALL EXISTING TREES, VEGETATION, PAVEMENTS, CONCRETE FOUNDATIONS, STRUCTURES AND ORGANIC TOPSOIL TO BE STRIPPED AND REMOVED FROM NEW CONSTRUCTION AREAS.
- ALL SLOPES SHALL BE 2:1 (HORIZONTAL:VERTICAL) MAXIMUM UNLESS OTHERWISE NOTED.
- ALL AREAS NOT PAVED SHALL BE TOPSOILED, SEEDED, MULCHED OR LANDSCAPED UNLESS OTHERWISE NOTED IN THE CONSTRUCTION DRAWINGS, SITE SPECIFICATIONS OR INSTRUCTED BY THE OWNER.
- CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT PREPARED BY SUSQUEHANNA CIVIL, INC. PRIOR TO INITIATION OF ANY EARTHWORK ACTIVITY.
- CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION.
- CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL STORM SEWER MANHOLES, INLETS, AND OTHER STRUCTURES FOR APPROVAL PRIOR TO CONSTRUCTION.
- STORMWATER ROOF DRAINS AND PIPES SHALL NOT DISCHARGE WATER DIRECTLY ONTO A ROAD SURFACE OR ROAD RIGHT-OF-WAY. WATER FROM NON-NATURAL SOURCE (AIR CONDITIONING UNIT, SUMP PUMP, ETC) SHALL NOT DISCHARGE WATER DIRECTLY ONTO A ROAD SURFACE OR ROAD RIGHT-OF-WAY.
- THE PROPOSED WATER SERVICE FACILITIES SHALL BE SIZED BASED ON PROPOSED BUILDING USAGE REQUIREMENTS AND COORDINATED WITH AQUA.
- THE PROPOSED STORMWATER MANAGEMENT FACILITIES SHOWN ON THE PLANS HAVE BEEN DESIGNED TO ADEQUATELY ACCOMMODATE THE PROPOSED DEVELOPMENT ASSOCIATED WITH THESE LAND DEVELOPMENT PLANS.



LEGEND

- 230 — EXISTING CONTOUR
- 230 — NEW CONTOUR
- + 230.12 NEW SPOT ELEVATION
- TC TOP OF CURB
- BC BOTTOM OF CURB
- TG TOP OF GRATE
- TW TOP OF WALL
- BW BOTTOM OF WALL
- FC FLUSH CURB
- LD — LIMIT OF DISTURBANCE
- [Hatched Box] DRY EXTENDED DETENTION BASIN BOTTOM FOOTPRINT

NOT APPROVED FOR CONSTRUCTION

RECORD REVISIONS

Alfred Benesch & Company
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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
DGS C-0251-0095 PHASE 1-1

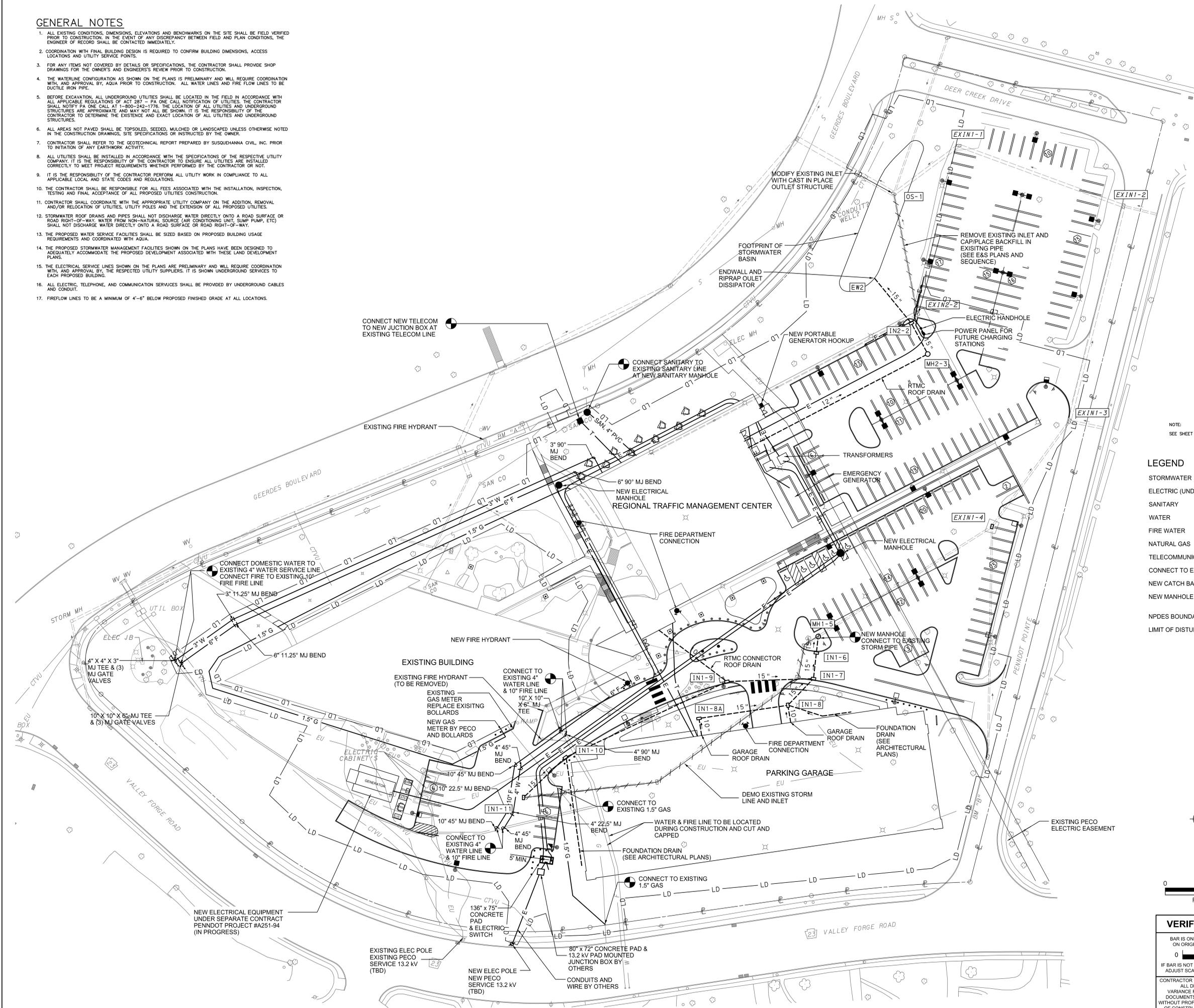
REGIONAL TRAFFIC MANAGEMENT CENTER AND PARKING STRUCTURE
DEPARTMENT OF TRANSPORTATION
King of Prussia, Upper Merion Township
Montgomery County, PA

GRADING AND POST CONSTRUCTION PLAN

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	DRAWN BY: RMD	DATE: 06/21/2020	DRAWING No.:
	CHECKED BY: CGB	SCALE: 1" = 30 FT	C-400

GENERAL NOTES

1. ALL EXISTING CONDITIONS, DIMENSIONS, ELEVATIONS AND BENCHMARKS ON THE SITE SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. IN THE EVENT OF ANY DISCREPANCY BETWEEN FIELD AND PLAN CONDITIONS, THE ENGINEER OF RECORD SHALL BE CONTACTED IMMEDIATELY.
2. COORDINATION WITH FINAL BUILDING DESIGN IS REQUIRED TO CONFIRM BUILDING DIMENSIONS, ACCESS LOCATIONS AND UTILITY SERVICE POINTS.
3. FOR ANY ITEMS NOT COVERED BY DETAILS OR SPECIFICATIONS, THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR THE OWNER'S AND ENGINEER'S REVIEW PRIOR TO CONSTRUCTION.
4. THE WATERLINE CONFIGURATION AS SHOWN ON THE PLANS IS PRELIMINARY AND WILL REQUIRE COORDINATION WITH, AND APPROVAL BY, AQUA PRIOR TO CONSTRUCTION. ALL WATER LINES AND FIRE FLOW LINES TO BE DUCTILE IRON PIPE.
5. BEFORE EXCAVATION, ALL UNDERGROUND UTILITIES SHALL BE LOCATED IN THE FIELD IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS OF ACT 287 - PA ONE CALL NOTIFICATION OF UTILITIES. THE CONTRACTOR SHALL NOTIFY PA ONE CALL AT 1-800-242-1776. THE LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES ARE APPROXIMATE AND MAY NOT ALL BE SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND EXACT LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES.
6. ALL AREAS NOT PAVED SHALL BE TOPSOILED, SEED, MULCHED OR LANDSCAPED UNLESS OTHERWISE NOTED IN THE CONSTRUCTION DRAWINGS, SITE SPECIFICATIONS OR INSTRUCTED BY THE OWNER.
7. CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT PREPARED BY SUSQUEHANNA CIVIL, INC. PRIOR TO INITIATION OF ANY EARTHWORK ACTIVITY.
8. ALL UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE RESPECTIVE UTILITY COMPANY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE ALL UTILITIES ARE INSTALLED CORRECTLY TO MEET PROJECT REQUIREMENTS WHETHER PERFORMED BY THE CONTRACTOR OR NOT.
9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL UTILITY WORK IN COMPLIANCE TO ALL APPLICABLE LOCAL AND STATE CODES AND REGULATIONS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES ASSOCIATED WITH THE INSTALLATION, INSPECTION, TESTING AND FINAL ACCEPTANCE OF ALL PROPOSED UTILITIES CONSTRUCTION.
11. CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE UTILITY COMPANY ON THE ADDITION, REMOVAL AND/OR RELOCATION OF UTILITIES, UTILITY POLES AND THE EXTENSION OF ALL PROPOSED UTILITIES.
12. STORMWATER ROOF DRAINS AND PIPES SHALL NOT DISCHARGE WATER DIRECTLY ONTO A ROAD SURFACE OR ROAD RIGHT-OF-WAY. WATER FROM NON-NATURAL SOURCE (AIR CONDITIONING UNIT, SUMP PUMP, ETC) SHALL NOT DISCHARGE WATER DIRECTLY ONTO A ROAD SURFACE OR ROAD RIGHT-OF-WAY.
13. THE PROPOSED WATER SERVICE FACILITIES SHALL BE SIZED BASED ON PROPOSED BUILDING USAGE REQUIREMENTS AND COORDINATED WITH AQUA.
14. THE PROPOSED STORMWATER MANAGEMENT FACILITIES SHOWN ON THE PLANS HAVE BEEN DESIGNED TO ADEQUATELY ACCOMMODATE THE PROPOSED DEVELOPMENT ASSOCIATED WITH THESE LAND DEVELOPMENT PLANS.
15. THE ELECTRICAL SERVICE LINES SHOWN ON THE PLANS ARE PRELIMINARY AND WILL REQUIRE COORDINATION WITH, AND APPROVAL BY, THE RESPECTED UTILITY SUPPLIERS. IT IS SHOWN UNDERGROUND SERVICES TO EACH PROPOSED BUILDING.
16. ALL ELECTRIC, TELEPHONE, AND COMMUNICATION SERVICES SHALL BE PROVIDED BY UNDERGROUND CABLES AND CONDUIT.
17. FIREFLOW LINES TO BE A MINIMUM OF 4'-6" BELOW PROPOSED FINISHED GRADE AT ALL LOCATIONS.



NOTE:
SEE SHEET C-402 AND C-1003 FOR UNDERGROUND ELECTRIC AND CONDUIT INFORMATION

LEGEND

	EXISTING	PROPOSED
STORMWATER	---	---
ELECTRIC (UNDERGROUND)	— EU —	— E —
SANITARY	— S —	— SAN —
WATER	— W —	— W —
FIRE WATER	— W —	— F —
NATURAL GAS	— G —	— G —
TELECOMMUNICATIONS (UNDERGROUND)	— TU —	— T —
CONNECT TO EXISTING	●	●
NEW CATCH BASIN	○	○
NEW MANHOLE	■	■
NPDES BOUNDARY	— NPDES —	— NPDES —
LIMIT OF DISTURBANCE	— LD —	— LD —

NOT APPROVED FOR CONSTRUCTION

RECORD REVISIONS

Professional Engineer Seal for Christopher George Bentz, State of Pennsylvania, License No. 002719-B.

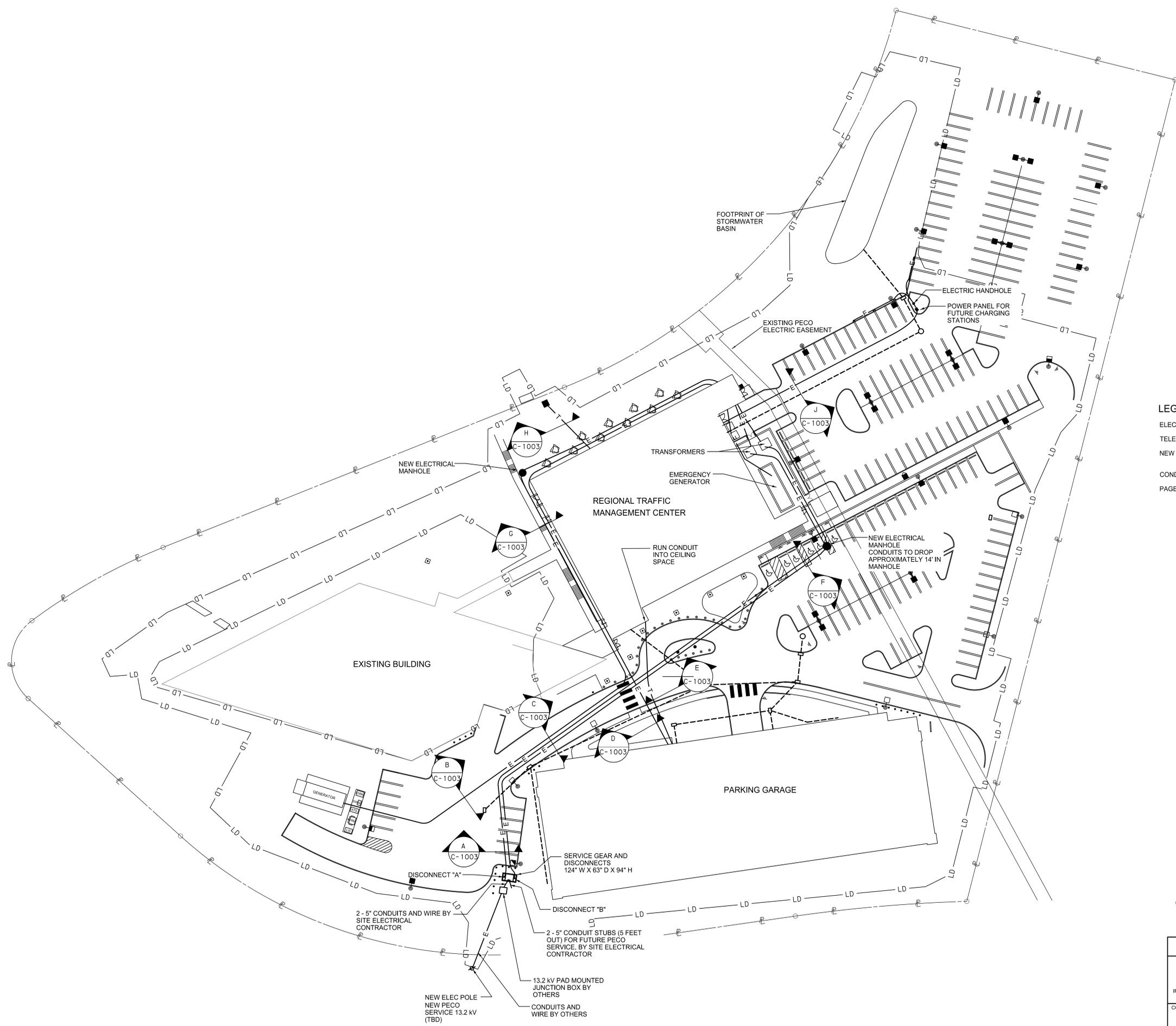
benesch
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610-439-7056

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No. DGS C-0251-0095 PHASE 1-1

REGIONAL TRAFFIC MANAGEMENT CENTER AND PARKING STRUCTURE
DEPARTMENT OF TRANSPORTATION
King of Prussia, Upper Merion Township
Montgomery County, PA

UTILITY PLAN	
DRAWN BY: RMD	DATE: 06/21/2020
CHECKED BY: CGB	SCALE: 1" = 30 FT
C-401	



LEGEND

ELECTRIC (UNDERGROUND)	EXISTING EU	PROPOSED E
TELECOMMUNICATIONS (UNDERGROUND)	TU	T
NEW MANHOLE	●	
CONDUIT CROSS SECTION NUMBER	▲ B C-1003	
PAGE NUMBER		

NOT APPROVED FOR CONSTRUCTION

RECORD REVISIONS



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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
DGS C-0251-0095 PHASE 1-1

REGIONAL TRAFFIC MANAGEMENT
CENTER AND PARKING STRUCTURE
DEPARTMENT OF TRANSPORTATION
King of Prussia, Upper Merion Township
Montgomery County, PA

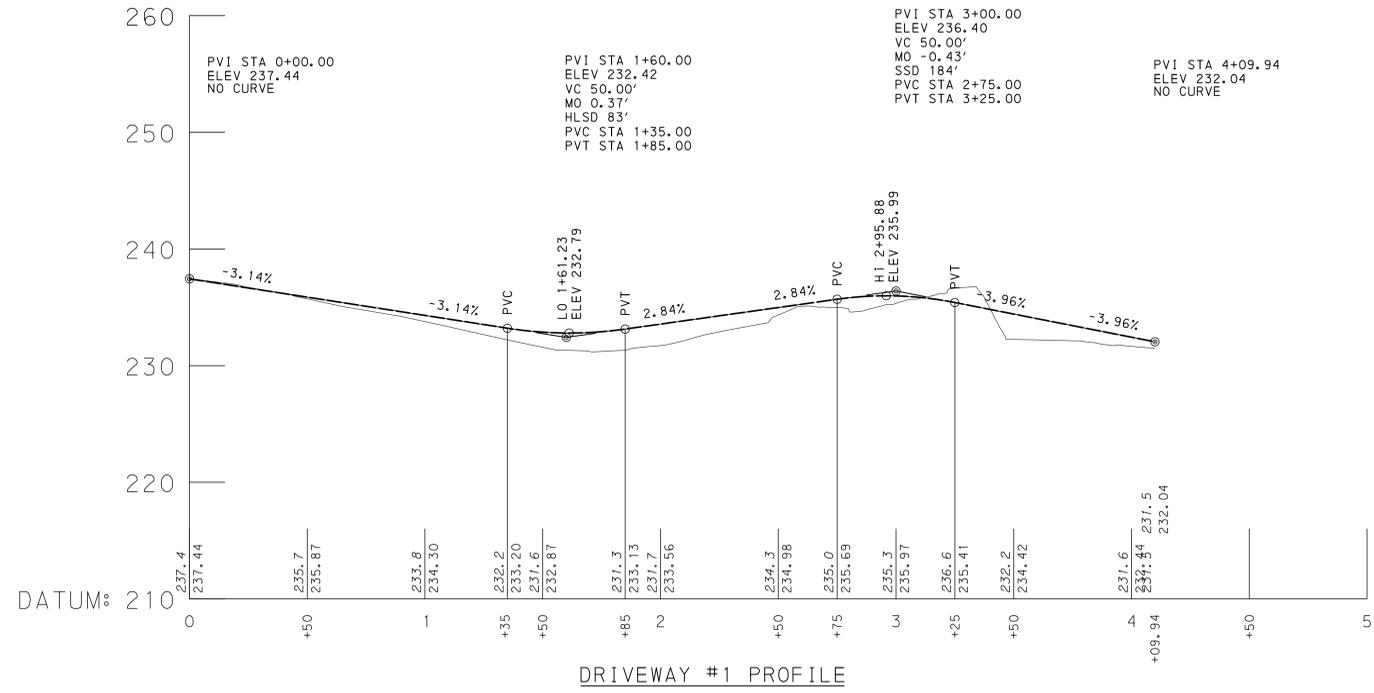
CONDUIT PLAN

VERIFY SCALE

BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG,
ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY
ALL DIMENSIONS.
VARIANCE FROM CONTRACT
DOCUMENTS NOT PERMITTED
WITHOUT PROFESSIONAL & BUREAU
OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
RMD	06/21/2020	C-402
CHECKED BY	SCALE	
CGB	1" = 30 FT	



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RECORD REVISIONS

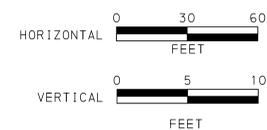


COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
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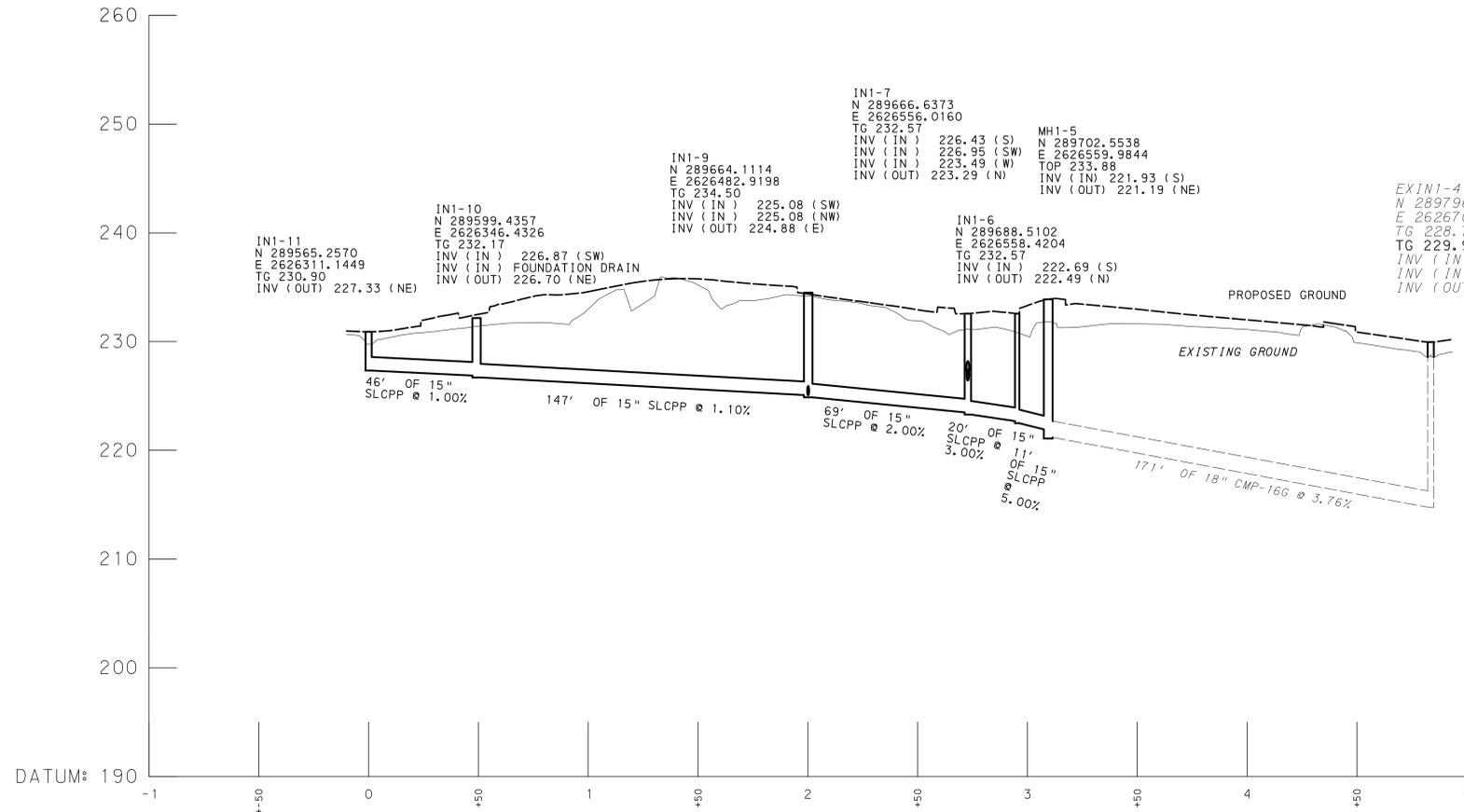
REGIONAL TRAFFIC MANAGEMENT
CENTER AND PARKING STRUCTURE
DEPARTMENT OF TRANSPORTATION
King of Prussia, Upper Merion Township
Montgomery County, PA

DRIVEWAY PROFILE

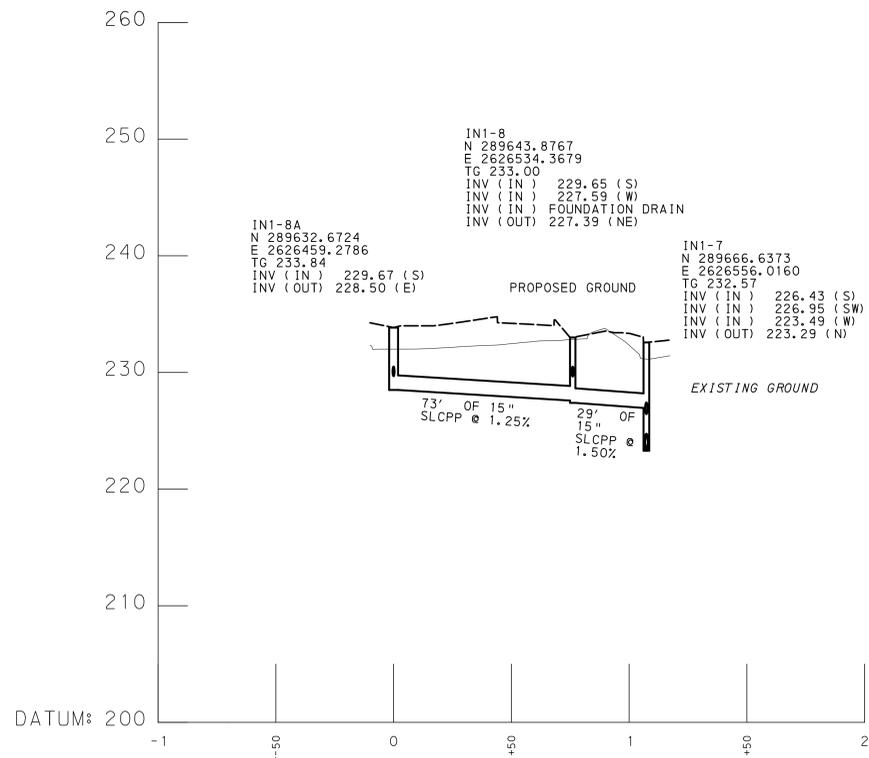


VERIFY SCALE
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IF BAR IS NOT ONE (1) INCH LONG,
ADJUST SCALE ACCORDINGLY

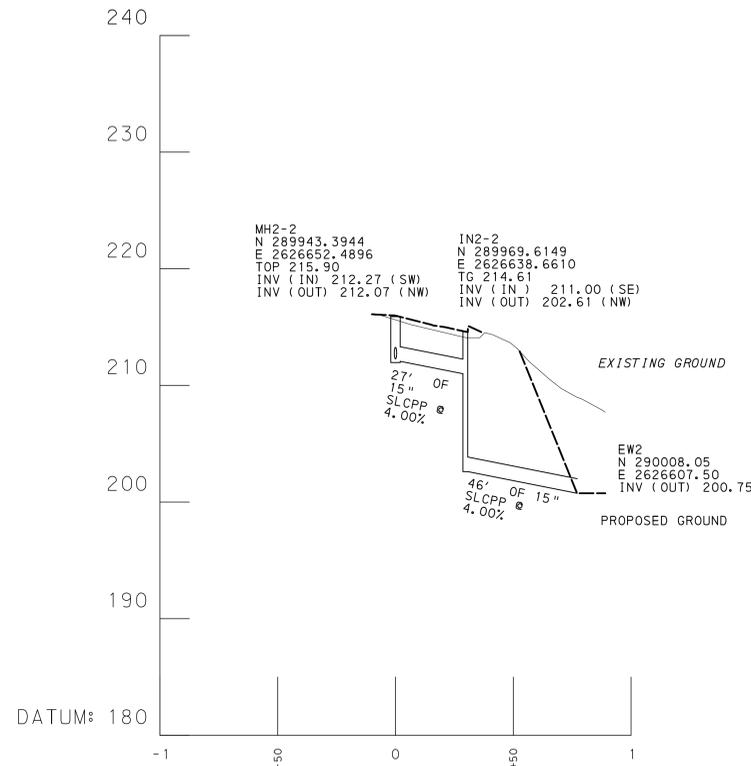
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	DRAWN BY RMD	DATE 06/21/2020	DRAWING No. C-500
	CHECKED BY CGB	SCALE AS NOTED	



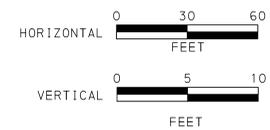
IN1-11 TO EXIN1-4



IN1-8A TO IN1-7



MH2-2 TO EW2

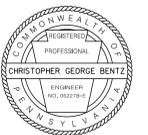


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0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

NOT APPROVED FOR CONSTRUCTION

RECORD REVISIONS



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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No. DGS C-0251-0095 PHASE 1-1

REGIONAL TRAFFIC MANAGEMENT
CENTER AND PARKING STRUCTURE
DEPARTMENT OF TRANSPORTATION
King of Prussia, Upper Merion Township
Montgomery County, PA

STORM PROFILES

DRAWN BY RMD	DATE 06/21/2020	DRAWING No. C-501
CHECKED BY CGB	SCALE AS NOTED	

PLANT SCHEDULE

TREES & SHRUBS					
KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE & ROOT	SPACING
AR	8	ACER RUBRUM 'FRANK JR.'	REDPOINTE RED MAPLE	2-2 1/2" CAL. B&B 6'-8" HT. (MIN)	AS SHOWN
AS	2	ACER SACCHARUM 'LEGACY'	LEGACY SUGAR MAPLE	2-2 1/2" CAL. B&B 6'-8" HT. (MIN)	AS SHOWN
BN	3	BETULA NIGRA 'BNMTF'	DURA HEAT RIVER BIRCH	6'-8" B&B / 3-5 STEAMS	AS SHOWN
CC	4	CERCIS CANADENSIS 'FOREST PANSY'	FOREST PANSY REDBUD	1 1/2" - 2" CAL. 6' HT. (MIN)	AS SHOWN
CK	3	CORNUS KOUSA	KOUSA DOGWOOD	1 1/2" - 2" CAL. 6' HT. (MIN)	AS SHOWN
EA	7	EUONYMUS ALATUS 'COMPACTUS'	DWARF WINGED EUONYMOUS	CONT. 30"-34" HT	5' O.C.
HS	85	HEMEROCALLIS 'STELLA DE ORO'	STELLA DE ORO DAYLILY	CONT. 8"-12" HT / 5-8 BIB	18" O.C.
IC	10	ILEX CRENATA 'HELLER'	HELLER JAPANESE HOLLY	CONT. 15"-18" HT	4.5' O.C.
ICC	46	ILEX CRENATA 'HETZ'	HETZ JAPANESE HOLLY	CONT. 30"-34" HT	5' O.C.
IG	41	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY	CONT. 30"-34" HT	5' O.C.
IN	7	ILEX X 'NELLIE R STEVENS'	NELLIE STEVENS HOLLY	6"-8" B&B SINGLE STEM	18" O.C.
JH	136	JUNIPERUS HORIZONTALIS 'BLUE RUG'	BLUE RUG JUNIPER	CONT. 6"-10" HT / 16"-20" SPD	5.25' O.C.
JC	47	JUNIPERUS CHINENSIS 'SARGENT'	SARGENT'S JUNIPER	CONT. 6"-10" HT / 16"-20" SPD	5.25' O.C.
MP	2	MALUS 'PRAIRIFIRE'	PRAIRIFIRE CRABAPPLE	CONT. 14"-16" HT	4' O.C.
MC	3	MYRICA CERIFERA	SOUTHERN BAYBERRY	CONT. 36"-42" HT	10' O.C.
LM	1404	LIRIOPE MUSCARI 'VARIEGATA'	VARIEGATED LIRIOPE	CONT. 5-8 BIB / 10"-12" HT	18" O.C.
PA	4	PICEA ABIES	NORWAY SPRUCE	6'-8" HT. B&B	AS SHOWN
QC	4	QUERCUS COCCINEA	SCARLET OAK	2-2 1/2" CAL. B&B 6'-8" HT. (MIN)	AS SHOWN
IC	9	SPIRAE X BUMALDA 'ANTHONY WATERER'	ANTHONY WATERER SPIREA	CONT. 14"-16" HT	4' O.C.
TO	13	THUJA OCCIDENTALIS 'SMARAGD'	EMERALD GREEN ARBORVITAE	6' HT. B&B	AS SHOWN
TS	13	THUJA STANDISHII X PPLICATA 'GREEN GIANT'	GREEN GIANT ARBORVITAE	8' HT. B&B	AS SHOWN
TC	4	TILIA CORDATA 'GREENSPIRE'	GREENSPIRE LITTLELEAF LINDEN	2-2 1/2" CAL. B&B 6'-8" HT. (MIN)	AS SHOWN
TM	63	TAXUS X MEDIA 'DENSIFORMIS'	DENSE YEW	CONT. 15"-18" HT	4' O.C.

NOTE:
SEE SHEET C-601 FOR LANDSCAPE PLANTING DETAILS AND NOTES.

UPPER MERION CODE: LANDSCAPING REQUIREMENTS

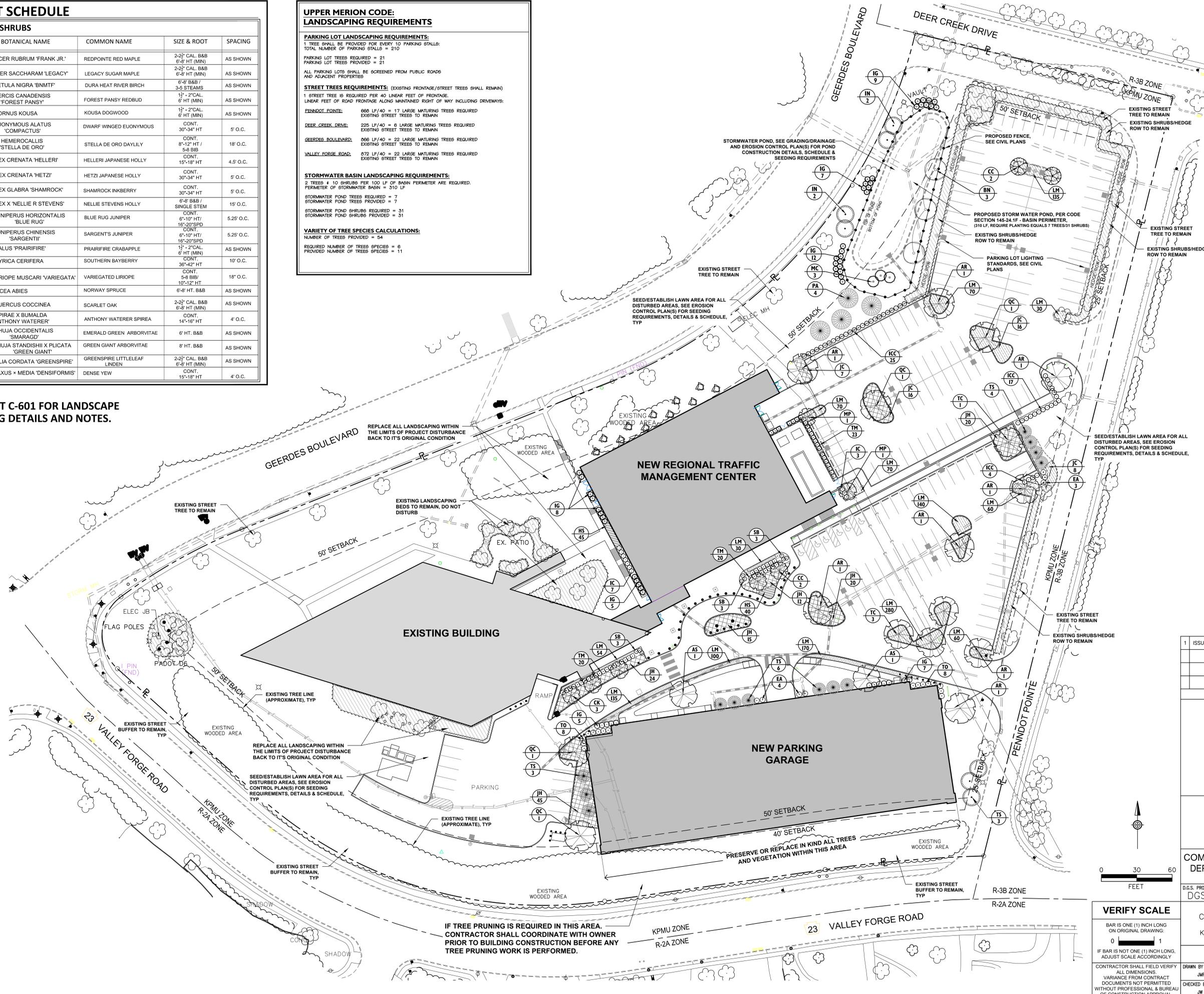
PARKING LOT LANDSCAPING REQUIREMENTS:
1 TREE SHALL BE PROVIDED FOR EVERY 10 PARKING STALLS:
TOTAL NUMBER OF PARKING STALLS = 210
PARKING LOT TREES REQUIRED = 21
PARKING LOT TREES PROVIDED = 21

ALL PARKING LOTS SHALL BE SCREENED FROM PUBLIC ROADS AND ADJACENT PROPERTIES

STREET TREES REQUIREMENTS: (EXISTING FRONTAGE/STREET TREES SHALL REMAIN)
1 STREET TREE IS REQUIRED PER 40 LINEAR FEET OF FRONTAGE.
LINEAR FEET OF ROAD FRONTAGE ALONG MAINTAINED RIGHT OF WAY INCLUDING DRIVEWAYS:
PENNDOT POINTE: 660 LF/40 = 17 LARGE MATURING TREES REQUIRED EXISTING STREET TREES TO REMAIN
DEER CREEK DRIVE: 225 LF/40 = 6 LARGE MATURING TREES REQUIRED EXISTING STREET TREES TO REMAIN
GEERDES BOULEVARD: 666 LF/40 = 22 LARGE MATURING TREES REQUIRED EXISTING STREET TREES TO REMAIN
VALLEY FORGE ROAD: 872 LF/40 = 22 LARGE MATURING TREES REQUIRED EXISTING STREET TREES TO REMAIN

STORMWATER BASIN LANDSCAPING REQUIREMENTS:
2 TREES & 10 SHRUBS PER 100 LF OF BASIN PERIMETER ARE REQUIRED.
PERIMETER OF STORMWATER BASIN = 310 LF
STORMWATER POND TREES REQUIRED = 7
STORMWATER POND TREES PROVIDED = 7
STORMWATER POND SHRUBS REQUIRED = 31
STORMWATER POND SHRUBS PROVIDED = 31

VARIETY OF TREE SPECIES CALCULATIONS:
NUMBER OF TREES PROVIDED = 64
REQUIRED NUMBER OF TREE SPECIES = 6
PROVIDED NUMBER OF TREE SPECIES = 11



LEGEND

- SIGN
- EXISTING LIGHT POLE
- EXISTING UTILITY POLE
- ACCESSIBLE SPACE
- EXISTING FIRE HYDRANT
- EXISTING TREE TO REMAIN
- PLANT LABEL
- PLANT QUANTITY
- EXISTING CURB AND GUTTER
- PROPOSED CURB AND GUTTER
- PROPERTY LINE
- EXISTING FENCE
- PROPOSED FENCE
- UGE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING OVERHEAD UTILITY LINE
- EXISTING TREE LINE
- PROPOSED TREE LINE AFTER CLEARING
- PROPOSED MULCH LINE
- PROPOSED STORM DRAINAGE PIPE
- SS
- SANITARY SEWER LINE
- W
- WATER LINE

1 ISSUED FOR PERMIT 06/21/2020

RECORD REVISIONS

REGISTERED PROFESSIONAL ARCHITECT
PENNSYLVANIA
JEROME WOOD
REGISTRATION NUMBER 000007
06.22.2020

benesch
Alfred Benesch & Company
250 Cetronia Road, Suite 150
Allentown, Pennsylvania 18104
610-439-7056

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No. DGS C-0251-0095 PHASE 1-1

REGIONAL TRAFFIC MANAGEMENT CENTER AND PARKING STRUCTURE
DEPARTMENT OF TRANSPORTATION
King of Prussia, Upper Merion Township
Montgomery County, PA

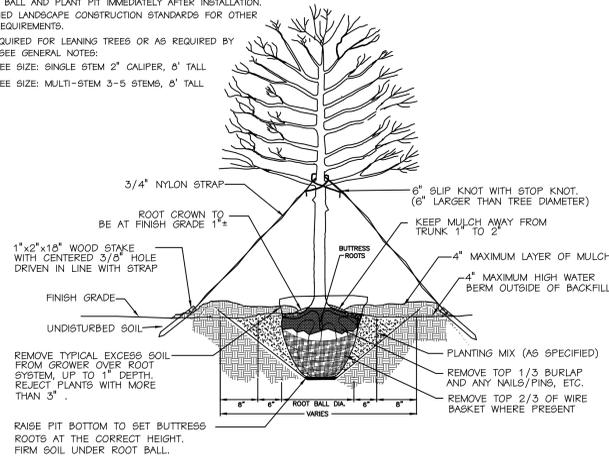
LANDSCAPING PLAN

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY: JMF DATE: 06/03/2020 DRAWING No. C-600
CHECKED BY: JW SCALE: 1"=30'-0"

NOTES:

1. REMOVE WIRE OR NYLON TWINE FROM BALL.
2. SOAK ROOT BALL AND PLANT PIT IMMEDIATELY AFTER INSTALLATION.
3. SEE ATTACHED LANDSCAPE CONSTRUCTION STANDARDS FOR OTHER PLANTING REQUIREMENTS.
4. STAKING REQUIRED FOR LEANING TREES OR AS REQUIRED BY CONTRACT. SEE GENERAL NOTES.
5. MINIMUM TREE SIZE: SINGLE STEM 2" CALIPER, 6' TALL.
6. MINIMUM TREE SIZE: MULTI-STEM 3-5 STEMS, 6' TALL.

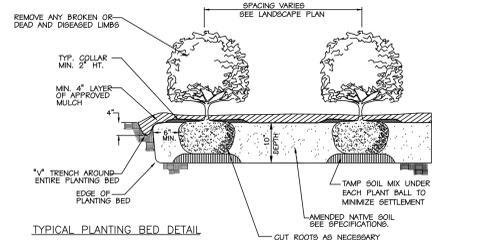


ALL TREES SHALL MEET AMERICAN STANDARD FOR NURSERY STOCK (AMS, 1990, PART 1, "SHADE AND FLOWERING TREES")

FOR EXAMPLE:	CALIPER	HEIGHT (RANGE)	MAX. HEIGHT	MIN. ROOT BALL DIA.	MIN. ROOT BALL DEPTH
	2"	12-14'	16'	24"	16"
	3"	14-16'	18'	32"	21"

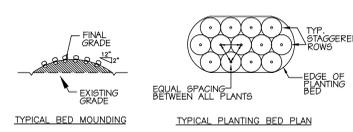
(FOR SINGLE AND MULTI-STEM TREES)

1 Tree Planting
N.T.S.

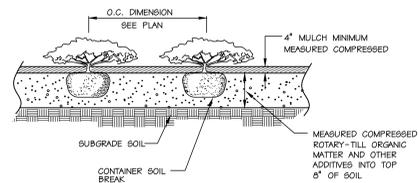
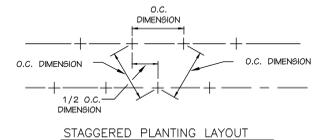


NOTES:

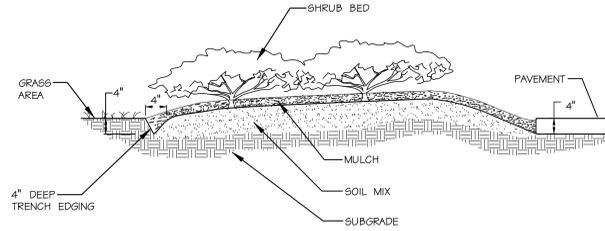
1. GIRT COLLAR AROUND EACH SHRUB WHEN IRRIGATION SYSTEM IS PRESENT.
2. INSTALL TOP OF PLANT BALL 2" ABOVE ADJACENT GRADE.
3. TEMP PLANTING MIX FINELY AS FIT IS FILLED AROUND EACH PLANT BALL.
4. SOAK EACH PLANT BALL AND PIT IMMEDIATELY AFTER INSTALLATION.
5. SEE SPECIFICATIONS FOR FURTHER SOIL AND PLANTING REQUIREMENTS.



2 Shrub Planting
N.T.S.



3 Groundcover Planting
N.T.S.



4 Planting Bed Edging
N.T.S.

LANDSCAPE NOTES

1. PROPOSED TREES AND OTHER VEGETATION SHALL BE GROWN IN A CLIMATE SIMILAR TO THAT OF MONTGOMERY COUNTY, PENNSYLVANIA. PLANTS SHALL BE IN GOOD HEALTH AND VIGOROUS, FREE OF DISEASE, LARVAE, INSECTS, AND INSECT EGGS.
2. THE REQUIREMENTS FOR THE MEASUREMENTS, BRANCHING, QUALITY, AND BALLING OR BURLAPPING OF TREES SHALL FOLLOW THE CODE OF STANDARDS RECOMMENDED BY THE AMERICAN ASSOCIATION OF NURSERMEN, INC. IN THE "AMERICAN STANDARD FOR NURSERY STOCK, ANS260, 1-1973, AS AMENDED."
3. PROPOSED TREES SHALL BE PLANTED, GUYED, STAKED, AND HANDLED IN COMPLIANCE WITH ACCEPTED HORTICULTURAL STANDARDS AND STANDARDS SET FORTH BY THE AMERICAN ASSOCIATION OF NURSERMEN, INC. IN THE "AMERICAN STANDARD FOR NURSERY STOCK, ANS260, 1-1973, AS AMENDED."
4. MINIMUM TREE SIZE AT PLANTING IS 2-INCH CALIPER (FOR SINGLE STEM TREES). ALL MULTI-STEM PLANTS MUST BE TREE FORM, MAXIMUM 3 TO 5 TRUNKS, AND MINIMUM 8 FEET TALL.
5. FOR NEW PLANTING AREAS, REMOVE ALL PAVEMENT, GRAVEL, SUB-BASE AND CONSTRUCTION DEBRIS; REMOVE COMPACTED SOIL AND ADD 24" NEW TOPSOIL, OR TILL AND AMEND THE TOP 24" OF EXISTING SOIL TO MEET TOPSOIL/ PLANTING MIX STANDARDS FOR TREES.
6. TREES LESS THAN 3" IN CALIPER SHALL BE PROPERLY STAKED AND TREES GREATER THAN 3" SHALL BE GUYED AND PROPERLY PROTECTED FOR A PERIOD OF ONE YEAR FROM THE DATE OF PLANTING. SEE TREE PLANTING DETAIL.
7. ALL SAUCERS SHALL BE SOAKED WITH WATER AND MULCHED IMMEDIATELY FOLLOWING PLANTING. INSTALL MULCH 4" OFF OF TREE TRUNK.
8. THE TOP OF ALL ROOT BALLS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE, AS BORN TO PREVIOUS GROWING CONDITIONS.
9. ALL ROOT BALLS REMOVED FROM CONTAINERS SHALL BE SCARIFIED PRIOR TO BACKFILLING.
10. ALL STRAPPING AND TOP 2/3 OF WIRE BASKET MUST BE CUT AWAY AND REMOVED FROM ROOT BALL PRIOR TO BACKFILLING PLANTING PIT. REMOVE TOP 1/3 OF THE BURLAP FROM ROOT BALL.
11. MULCH A MINIMUM 4 FOOT AREA AROUND EACH TREE AND - MULCH A CONTINUOUS AREA AROUND ALL SHRUB BEDS, AS INDICATED ON THE PLAN. MULCH SHALL BE 3-4" THICK. SEE SPECIFICATIONS FOR TYPE.
12. FERTILIZE ALL PLANTINGS IN ACCORDANCE WITH PENNDOT PUBLICATION 408 SPECIFICATIONS AND MULCH WITH MIN. 3" SHREDDED AND TANNED OAK BARK AROUND ALL NEW PLANTS IN CONTINUOUS BEDS (FERTILIZE IN SPRING ONLY). A SOIL TEST SHALL BE PERFORMED BY A QUALIFIED LABORATORY. ADJUSTMENT TO PLANT AND FERTILIZER MATERIAL AND APPLICATION SHALL BE MADE AS AUTHORIZED BY OWNER, UNDER THE DIRECTION OF THE DESIGN PROFESSIONAL, IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
13. PRE-EMERGENT HERBICIDE SHALL NOT BE USED ON GROUND COVER AREAS.
14. ALL DISTURBED AREAS NOT LANDSCAPED, PAVED OR BUILT UPON SHALL BE SEEDED, FERTILIZED AND MULCHED IN ACCORDANCE WITH PENNDOT SPECIFICATIONS, PUBLICATION 408 FOR THE FORMULA SPECIFIED UNLESS OTHERWISE NOTED. REFER TO SEEDING SCHEDULE AND EROSION AND SEDIMENTATION CONTROL PLAN FOR OTHER REQUIREMENTS.
15. DECIDUOUS TREES THAT OVERHANG PEDESTRIAN OR VEHICULAR ROUTES SHALL BE MAINTAINED TO KEEP AWAY FROM GROUND TO A HEIGHT OF 8' FREE OF BRANCHES AND FOLIAGE.
16. WEDD BARRIERS MAT SHALL BE INSTALLED ON ALL LANDSCAPED AREAS AND INTERIOR ISLANDS EXCEPT GROUND COVER AREAS (UNLESS OTHERWISE NOTED) IN ACCORDANCE WITH PENNDOT PUBLICATION 408, SPECIFICATIONS.
17. NO IRRIGATION SYSTEM IS REQUIRED.
18. ALL PLANT MATERIAL IS SUBJECT TO APPROVAL AND ACCEPTANCE FROM A LANDSCAPE ARCHITECT OR OTHER QUALIFIED DESIGN PROFESSIONAL BEFORE, DURING AND AFTER INSTALLATION.
19. ALL PLANTING AREAS AND BEDS TO BE MULCHED SHALL CONFORM TO SPECIFICATIONS DEFINED IN PENNDOT PUBLICATION 408, SECTION 805.
20. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE QUANTITY OF PLANTS SHOWN ON THE PLAN, ANY DISCREPANCIES BETWEEN QUANTITIES ON PLAN AND PLANT LIST SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT AND ANY FIELD ADJUSTMENTS OR QUANTITY ADJUSTMENTS MUST BE AUTHORIZED PRIOR TO PLANTING.
21. CONTRACTOR IS RESPONSIBLE FOR HAVING ALL UNDERGROUND UTILITIES LOCATED AND CLEARLY PAINTED WITHIN 10 DAYS OF ANY GROUND DISTURBING ACTIVITY. OWNER WILL NOT PAY FOR UTILITY REPAIRS DUE TO FAILURE TO MARK AND OBSERVE UTILITY LOCATIONS.
22. ADJUST TREE PLANTING LOCATIONS TO AVOID UNDERGROUND UTILITIES- PLANT 15' FROM ALL UNDERGROUND UTILITIES (SEWER AND STORM DRAINAGE, GAS WATER, PHONE AND ELECTRICAL LINES).
23. LARGE MATURING TREES MAY NOT BE PLANTED WHERE OVERHEAD DISTRIBUTION OR TRANSMISSION LINES EXIST. IF TREES CONFLICT WITH POWER LINES
24. THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL VEGETATION WITHIN PLANTING BEDS AND LAWN AREAS UNTIL THE WORK IS ACCEPTED BY THE OWNER. MAINTENANCE INCLUDES, BUT IS NOT LIMITED TO, WATERING, SPRAYING, MULCHING, AND FERTILIZING.
25. THE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR BEGINNING ON THE DATE OF ACCEPTANCE. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE GUARANTEE PERIOD.
26. AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES IN LEAF SHALL BE ACCLIMATED FOR TWO (2) WEEKS UNDER A MIST SYSTEM PRIOR TO INSTALLATION.
27. ANY PLANT MATERIAL WHICH DIES, TURNS BROWN, OR DEFOLIATES PRIOR TO TOTAL ACCEPTANCE OF THE WORK SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE, AND MEET ALL PLANT LIST SPECIFICATIONS.
28. STANDARDS SET FORTH ON "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
29. ALL SHRUB, GROUND COVER AND PERENNIAL PLANTING BEDS ARE TO BE COMPLETELY COVERED WITH HARDWOOD MULCH TO A MINIMUM DEPTH OF THREE INCHES.
30. ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 4" OF TOPSOIL PRIOR TO FINAL SEEDING AND MULCHING. APPLY SEED, MULCH AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.
31. ALL DAMAGED AREAS SHALL BE REPAIRED AND REFINISHED WITH MATERIALS TO MATCH EXISTING ADJACENT SURFACES.
32. THE OWNER MAY SUPPLEMENT THIS PLAN WITH ADDITIONAL PLANTINGS AS APPROVED BY THE LANDSCAPE ARCHITECT OR OTHER QUALIFIED DESIGN PROFESSIONAL.
33. EXISTING STORMWATER BASINS SHALL BE CLEARED OF VEGETATION AND RE-SEEDED.
34. VIOLATION OF TREE PROTECTION REQUIREMENTS ARE SUBJECT TO FINES AND/OR IMMEDIATE CORRECTIVE ACTION/MITIGATION.

SEEDING & MULCHING SPECIFICATIONS

SEEDING, MULCHING AND SOIL SUPPLEMENTS SHALL MEET THE REQUIREMENTS OF THE PA DEPARTMENT OF TRANSPORTATION (PADOT) SPECIFICATIONS, PUBLICATION 408, LATEST EDITION, SECTIONS 804 AND 805 AND SHALL BE APPLIED DURING THE PRESCRIBED PLANTING PERIOD.

SEEDING:

- TEMPORARY SEEDING SHALL CONSIST OF 100 PERCENT ANNUAL RYE GRASS AND SHALL CONFORM TO THE REQUIREMENTS OF THE PA DEPARTMENT OF TRANSPORTATION (PADOT) SPECIFICATIONS FOR FORMULA E SEED MIXTURE. THE SEEDING APPLICATION RATE SHALL BE 10 LBS./1,000 SQ. YDS.
- PERMANENT SEEDING SHALL CONSIST OF PERENNIAL GRASSES (I.E., KENTUCKY BLUEGRASS, FESCUE, PERENNIAL RYE) AND SHALL MEET THE REQUIREMENTS OF PADOT FOR THE FOLLOWING APPLICATIONS:
 - o LAWN AREAS - FORMULA B SEED MIXTURE WITH A SEEDING APPLICATION RATE OF 21 LBS./1,000 SQ. YDS.
 - o ALL OTHER AREAS - SEE LANDSCAPING PLAN AND BMP SEEDING SCHEDULE FOR SEEDING APPLICATIONS.

- BOTTOM OF THE SWM / BMP FACILITIES - REFERENCE THE PLANTING SCHEDULE ON THE LAND DEVELOPMENT PLANS FOR THE PLACEMENT OF GRASSES AND VEGETATION WITHIN THESE FACILITIES.

MULCHING:

- MULCHING SHALL CONSIST OF STRAW MULCH AND SHALL MEET THE SPECIFICATIONS AND APPLICATION RATES AS PRESCRIBED IN SECTION 805 OF PUBLICATION 408.
- THE MULCHING SHALL ALSO BE UTILIZED DURING WINTER MONTHS FOR GROUND COVER STABILIZATION ON TOPSOIL STOCKPILES, GRADED SLOPES AND OTHER AREAS TO BE GRASSED IN THE FUTURE.
- STRAW MULCH SHALL BE APPLIED AT THE RATE OF 1,200 POUNDS PER 1,000 SQUARE YARDS AND APPLIED WITHIN 48 HOURS OF PLACING SEEDING. ON STEEP SLOPES OF 3:1 OR GREATER, MULCH SHALL BE SECURED THROUGH THE USE OF SPECIFIED NETTING MATERIAL.
- MULCH SHOULD BE ANCHORED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDBLOWN. ANCHOR MULCH WITH SPECIFIED MULCH BINDERS APPLIED IN ACCORDANCE WITH SECTION 805.3.

SOIL SUPPLEMENTS:

- SUPPLEMENTS SHALL CONFORM TO THE REQUIREMENTS OF PADOT PUBLICATION 408, SECTION 804 AND SHALL BE APPLIED DURING THE APPROPRIATE TIMES.

TEMPORARY APPLICATION:

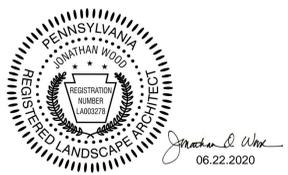
LIME: AGRICULTURAL LIME AT 410 LBS./1,000 SQ. YDS.
FERTILIZER: 10-10-10 ANALYSIS COMMERCIAL FERTILIZER TO BE APPLIED AT 100 LBS./1,000 SQ. YDS.

PERMANENT APPLICATION:

LIME: AGRICULTURAL LIME AT 2,480 LBS./1,000 SQ. YDS.
FERTILIZER: 10-10-20 ANALYSIS COMMERCIAL FERTILIZER TO BE APPLIED AT 210 LBS./1,000 SQ. YDS.

1	ISSUED FOR PERMIT 06/21/2020

RECORD REVISIONS



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
DGS C-0251-0095 PHASE 1-1

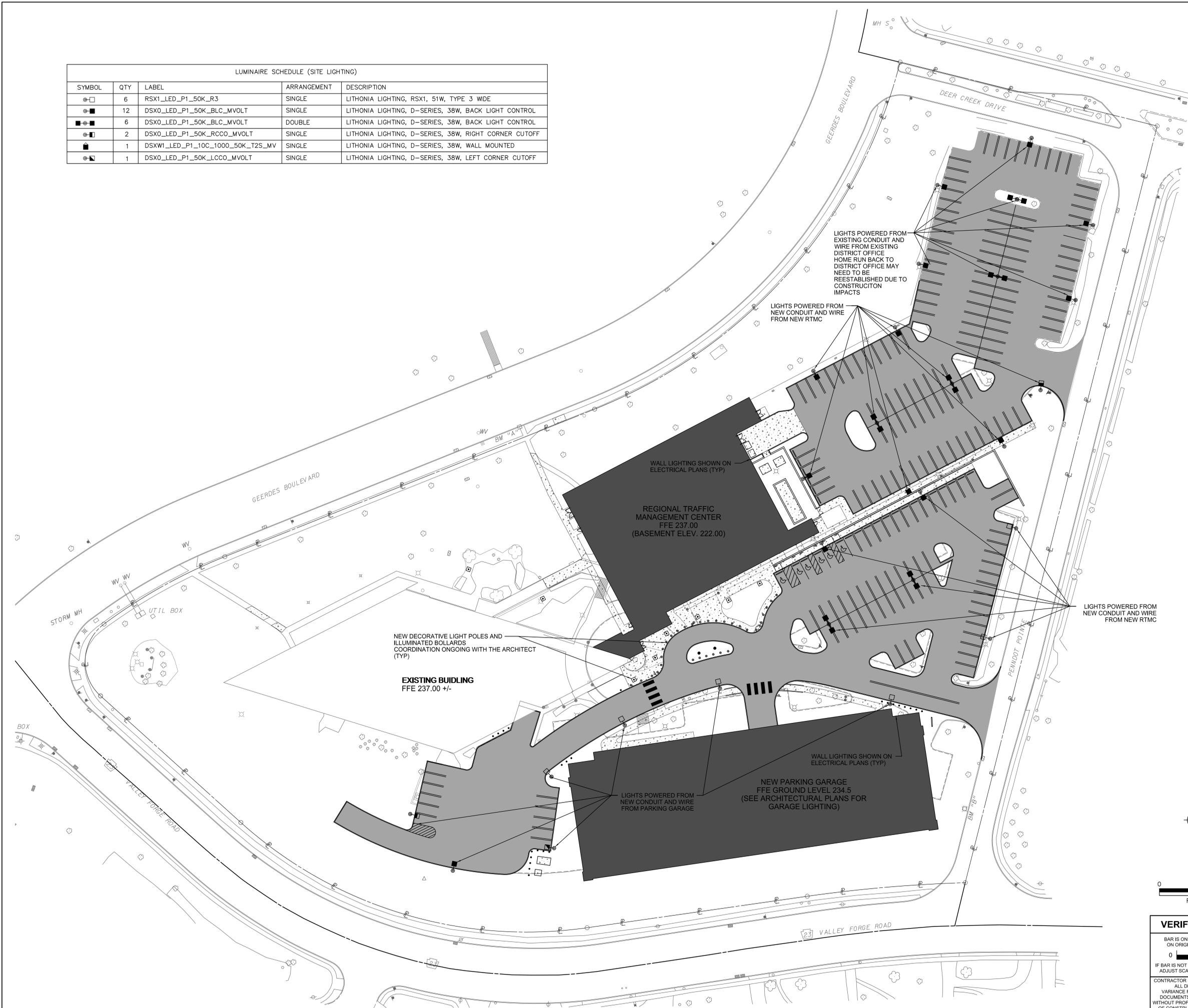
REGIONAL TRAFFIC MANAGEMENT
CENTER AND PARKING STRUCTURE
DEPARTMENT OF TRANSPORTATION
King of Prussia, Upper Merion Township
Montgomery County, PA

LANDSCAPING DETAILS & NOTES

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING.
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY.
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

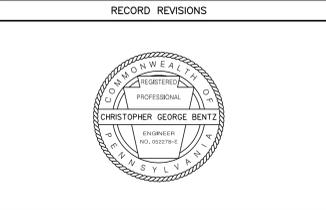
DRAWN BY	DATE	DRAWING No.
JMF	06/03/2020	C-601
CHECKED BY	SCALE	
JW	NTS	

LUMINAIRE SCHEDULE (SITE LIGHTING)				
SYMBOL	QTY	LABEL	ARRANGEMENT	DESCRIPTION
⊕-□	6	RSX1_LED_P1_50K_R3	SINGLE	LITHONIA LIGHTING, RSX1, 51W, TYPE 3 WIDE
⊕-■	12	DSX0_LED_P1_50K_BLC_MVOLT	SINGLE	LITHONIA LIGHTING, D-SERIES, 38W, BACK LIGHT CONTROL
■-⊕	6	DSX0_LED_P1_50K_BLC_MVOLT	DOUBLE	LITHONIA LIGHTING, D-SERIES, 38W, BACK LIGHT CONTROL
⊕-L	2	DSX0_LED_P1_50K_RCCO_MVOLT	SINGLE	LITHONIA LIGHTING, D-SERIES, 38W, RIGHT CORNER CUTOFF
■	1	DSXW1_LED_P1_10C_1000_50K_T2S_MV	SINGLE	LITHONIA LIGHTING, D-SERIES, 38W, WALL MOUNTED
⊕-L	1	DSX0_LED_P1_50K_LCCO_MVOLT	SINGLE	LITHONIA LIGHTING, D-SERIES, 38W, LEFT CORNER CUTOFF



NOT APPROVED FOR CONSTRUCTION

RECORD REVISIONS



benesch
 Alfred Benesch & Company
 250 Catronia Road, Suite 150
 Allentown, Pennsylvania 18104
 610-429-7066

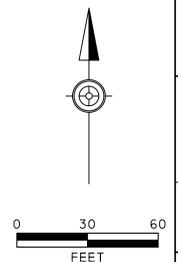
COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF GENERAL SERVICES
 HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
DGS C-0251-0095 PHASE 1-1

REGIONAL TRAFFIC MANAGEMENT CENTER AND PARKING STRUCTURE
 DEPARTMENT OF TRANSPORTATION
 King of Prussia, Upper Merion Township
 Montgomery County, PA

SITE LIGHTING PLAN

DRAWN BY RMD	DATE 06/21/2020	DRAWING No. C-602
CHECKED BY CGB	SCALE 1" = 30 FT	

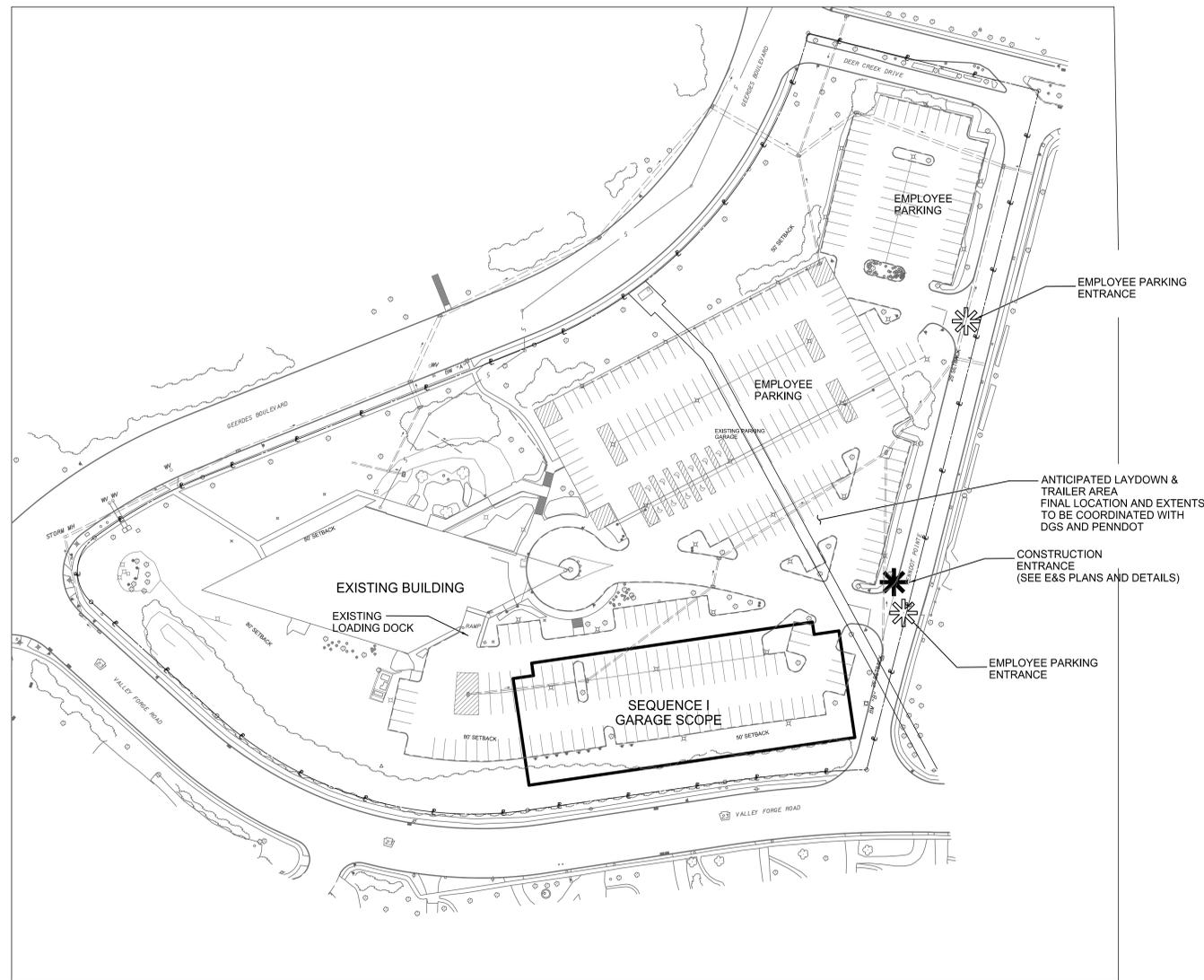


VERIFY SCALE

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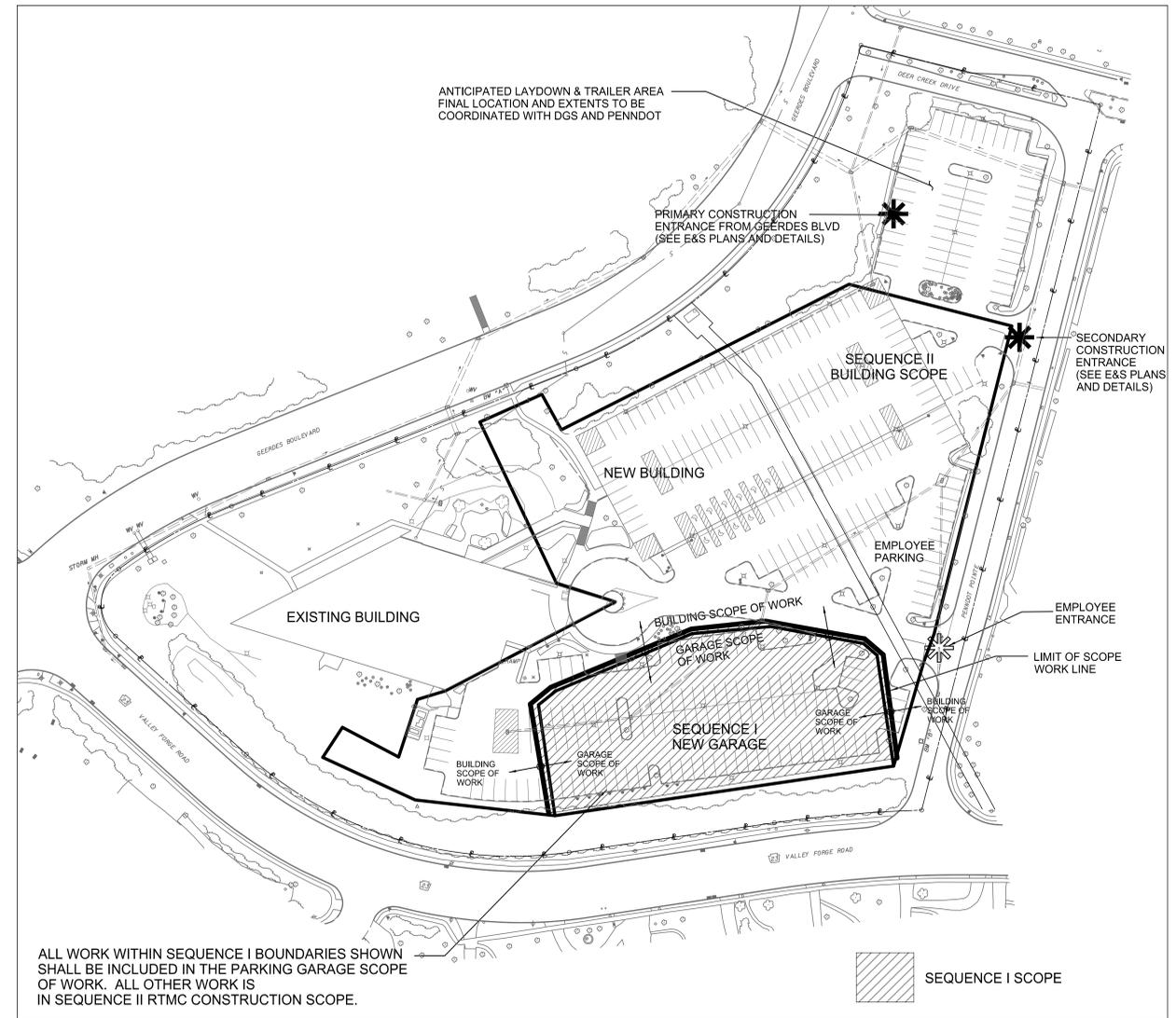
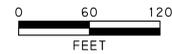
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CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
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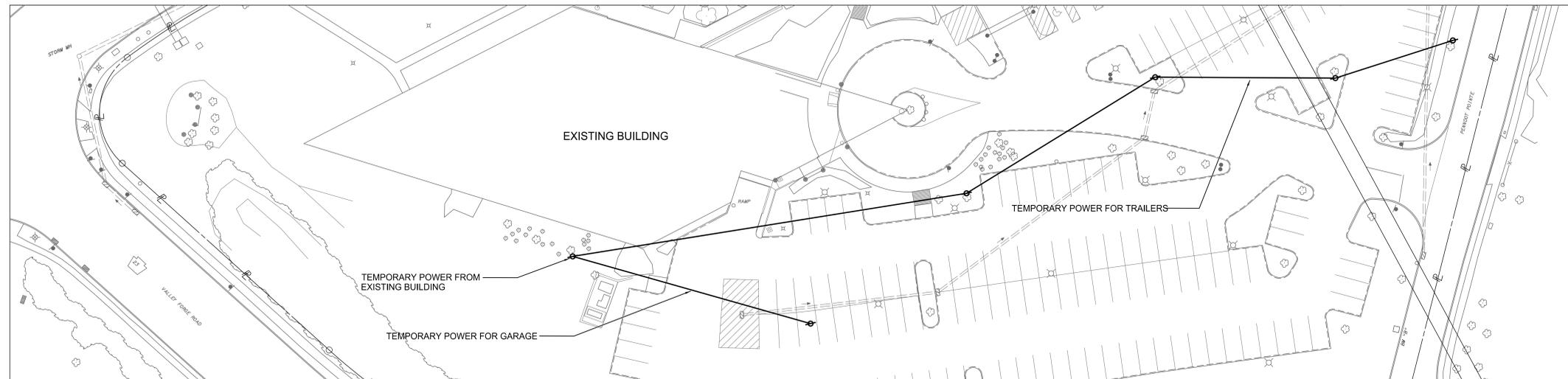
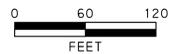
SEQUENCE I - CONSTRUCTION OF PARKING GARAGE

- PROVIDE FENCING AS REQUIRED TO SEGREGATE CONSTRUCTION ACTIVITIES FROM PUBLIC ACTIVITIES TO PROVIDE A SAFE AND SECURE SITE
- MAINTAIN EXISTING SURFACE LOTS AND DECK FOR EMPLOYEE PARKING - PENNDOT REQUIRES APPROX. 350 SPACES FOR EMPLOYEE AND VISITOR USE.
- DEMOLISH EXISTING SOUTH PARKING LOT
- CONSTRUCT NEW GARAGE
- INSTALL NEW UTILITIES AND UTILITY RELOCATIONS WITHIN SEQUENCE I LIMITS
- MAINTAIN ACCESS TO EXISTING LOADING DOCK
- DBC SHALL TO PROVIDE FIRE EGRESS PLANS FOR EACH SEQUENCE OF CONSTRUCTION. THE PLANS SHALL INCLUDE FIRE ESCAPE ROUTES FROM THE EXISTING BUILDING TO MUSTER POINTS
- PROVIDE AND MAINTAIN A SAFE AND BARRIER FREE PUBLIC/STAFF ENTRANCE TO THE BUILDING AT ALL TIMES.



SEQUENCE II - CONSTRUCTION OF RTMC BUILDING, UTILITIES, WALKWAYS, SURFACE PARKING LANDSCAPING, AND DEMOLITION WORK

- PROVIDE FENCING AS REQUIRED TO SEGREGATE CONSTRUCTION ACTIVITIES FROM PUBLIC ACTIVITIES TO PROVIDE A SAFE AND SECURE SITE
- MAINTAIN EXISTING SURFACE LOTS AND DECK FOR EMPLOYEE PARKING - PENNDOT REQUIRES APPROX. 350 SPACES FOR EMPLOYEE AND VISITOR USE.
- DEMOLISH EXISTING PARKING LOT - NORTH
- DEMOLISH EXISTING PARKING DECK - NORTH
- CONSTRUCT NEW BUILDING
- CONSTRUCT NEW SURFACE PARKING LOTS
- INSTALL NEW UTILITIES AND UTILITY RELOCATIONS WITHIN SEQUENCE II LIMITS
- DBC SHALL TO PROVIDE FIRE EGRESS PLANS FOR EACH SEQUENCE OF CONSTRUCTION. THE PLANS SHALL INCLUDE FIRE ESCAPE ROUTES FROM THE EXISTING BUILDING TO MUSTER POINTS.
- PROVIDE AND MAINTAIN A SAFE AND BARRIER FREE PUBLIC/STAFF ENTRANCE TO THE BUILDING AT ALL TIMES.
- PRIMARY AND SECONDARY CONSTRUCTION ACCESS IS IDENTIFIED ON DRAWINGS. SECONDARY ACCESS POINTS ARE NOT TO BE USED DAILY. THIS IS TO REDUCE TRAFFIC AND DAMAGE ON RESIDENTIAL STREETS.



SEQUENCE I - TEMPORARY POWER LAYOUT FROM EXISTING BUILDING



NOT APPROVED FOR CONSTRUCTION

RECORD REVISIONS



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
DGS C-0251-0095 PHASE 1-1

REGIONAL TRAFFIC MANAGEMENT
CENTER AND PARKING STRUCTURE
DEPARTMENT OF TRANSPORTATION
King of Prussia, Upper Merion Township
Montgomery County, PA

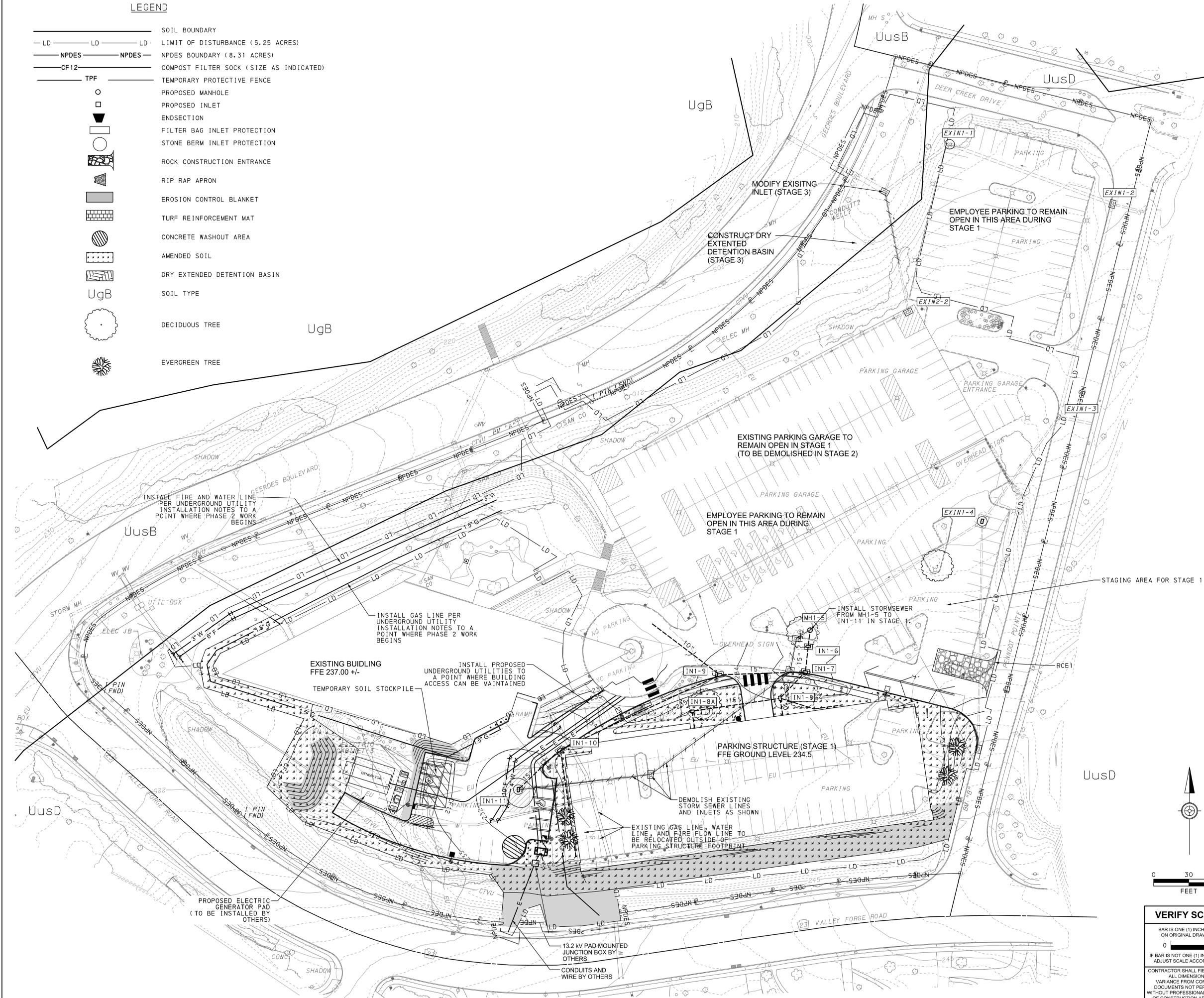
CONSTRUCTION LOGISTICS PLAN

VERIFY SCALE
BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG,
ADJUST SCALE ACCORDINGLY
CONTRACTOR SHALL FIELD VERIFY
ALL DIMENSIONS.
VARIANCE FROM CONTRACT
DOCUMENTS NOT PERMITTED
WITHOUT PROFESSIONAL & BUREAU
OF CONSTRUCTION APPROVAL.

DRAWN BY RMD	DATE 06/21/2020	DRAWING No. C-700
CHECKED BY CGB	SCALE AS NOTED	

LEGEND

- LD — LD — SOIL BOUNDARY
- LD — LD — LIMIT OF DISTURBANCE (5.25 ACRES)
- NPDES — NPDES — NPDES BOUNDARY (8.31 ACRES)
- CF12 — COMPOST FILTER SOCK (SIZE AS INDICATED)
- TPF — TEMPORARY PROTECTIVE FENCE
- PROPOSED MANHOLE
- ◻ PROPOSED INLET
- ▽ ENDSECTION
- ◻ FILTER BAG INLET PROTECTION
- STONE BERM INLET PROTECTION
- ▨ ROCK CONSTRUCTION ENTRANCE
- ▨ RIP RAP APRON
- ▨ EROSION CONTROL BLANKET
- ▨ TURF REINFORCEMENT MAT
- ▨ CONCRETE WASHOUT AREA
- ▨ AMENDED SOIL
- ▨ DRY EXTENDED DETENTION BASIN
- UgB SOIL TYPE
- DECIDUOUS TREE
- ◉ EVERGREEN TREE



NOTE:
SEE SITE LANDSCAPING PLAN
FOR ADDITIONAL TREE AND
SHRUB LOCATIONS

NOT APPROVED FOR CONSTRUCTION

RECORD REVISIONS



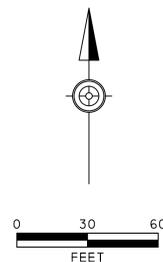
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
DGS C-0251-0095 PHASE 1-1

REGIONAL TRAFFIC MANAGEMENT
CENTER AND PARKING STRUCTURE
DEPARTMENT OF TRANSPORTATION
King of Prussia, Upper Merion Township
Montgomery County, PA

EROSION & SEDIMENTATION
POLLUTION CONTROL PLAN - STAGE 1

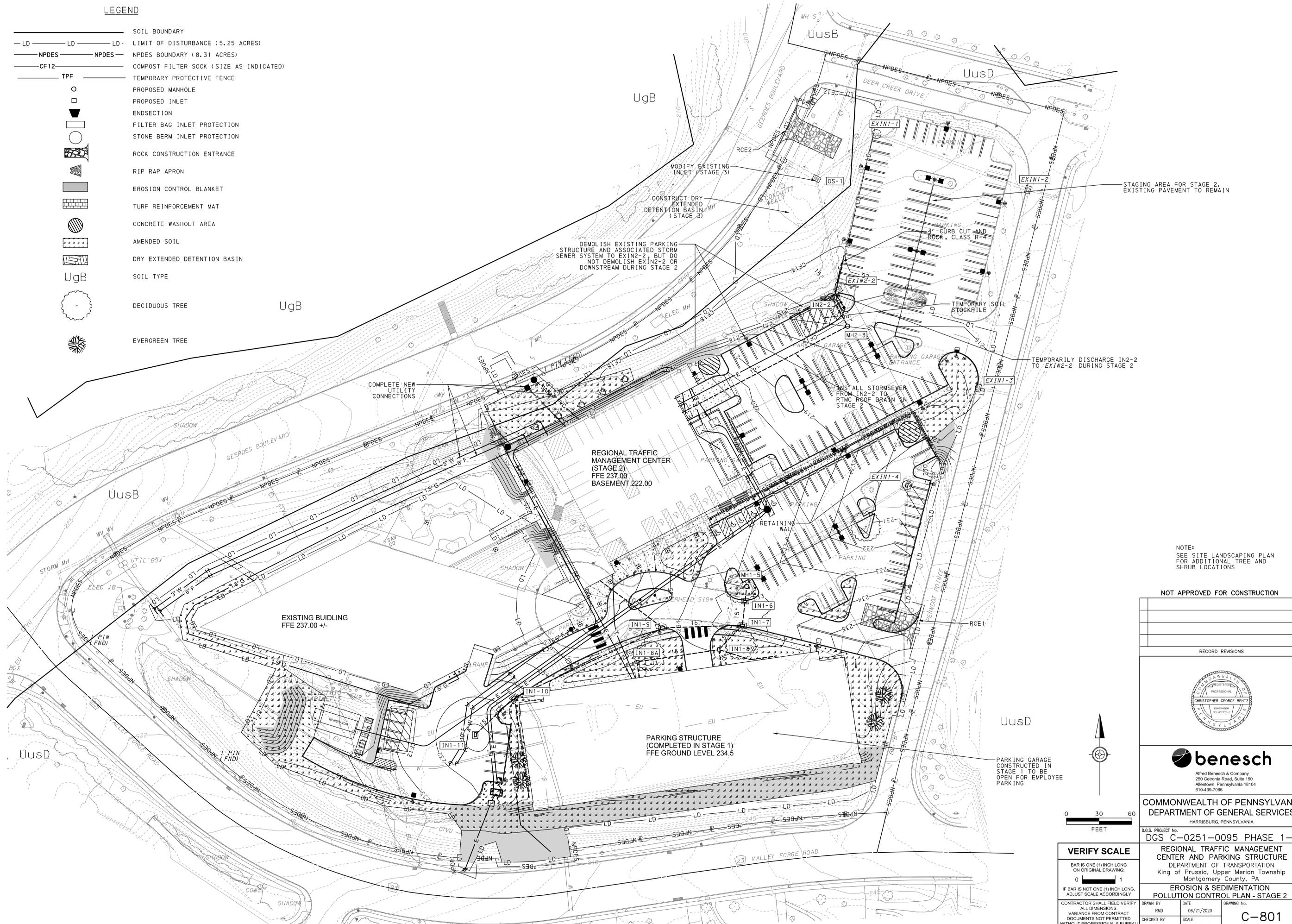
DRAWN BY RMD	DATE 06/21/2020	DRAWING No. C-800
CHECKED BY CGB	SCALE 1" = 30 FT	



VERIFY SCALE
BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG,
ADJUST SCALE ACCORDINGLY
CONTRACTOR SHALL FIELD VERIFY
ALL DIMENSIONS.
VARIANCE FROM CONTRACT
DOCUMENTS NOT PERMITTED
WITHOUT PROFESSIONAL & BUREAU
OF CONSTRUCTION APPROVAL.

LEGEND

- LD — LD — LD — SOIL BOUNDARY
- LD — LD — LD — LIMIT OF DISTURBANCE (5.25 ACRES)
- NPDES — NPDES — NPDES — NPDES BOUNDARY (8.31 ACRES)
- CF12 — COMPOST FILTER SOCK (SIZE AS INDICATED)
- TPF — TEMPORARY PROTECTIVE FENCE
- PROPOSED MANHOLE
- PROPOSED INLET
- ▽ ENDSECTION
- ▭ FILTER BAG INLET PROTECTION
- ▭ STONE BERM INLET PROTECTION
- ▭ ROCK CONSTRUCTION ENTRANCE
- ▭ RIP RAP APRON
- ▭ EROSION CONTROL BLANKET
- ▭ TURF REINFORCEMENT MAT
- ▭ CONCRETE WASHOUT AREA
- ▭ AMENDED SOIL
- ▭ DRY EXTENDED DETENTION BASIN
- UgB SOIL TYPE
- DECIDUOUS TREE
- EVERGREEN TREE



STAGING AREA FOR STAGE 2. EXISTING PAVEMENT TO REMAIN

TEMPORARILY DISCHARGE IN2-2 TO EXIN2-2 DURING STAGE 2

NOTE:
SEE SITE LANDSCAPING PLAN FOR ADDITIONAL TREE AND SHRUB LOCATIONS

NOT APPROVED FOR CONSTRUCTION

RECORD REVISIONS



Alfred Benesch & Company
250 Catronia Road, Suite 150
Allentown, Pennsylvania 18104
610-439-7066

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
DGS C-0251-0095 PHASE 1-1

REGIONAL TRAFFIC MANAGEMENT CENTER AND PARKING STRUCTURE
DEPARTMENT OF TRANSPORTATION
King of Prussia, Upper Merion Township
Montgomery County, PA

EROSION & SEDIMENTATION POLLUTION CONTROL PLAN - STAGE 2

DRAWN BY RMD	DATE 06/21/2020	DRAWING No. C-801
CHECKED BY CGB	SCALE 1" = 30 FT	



VERIFY SCALE

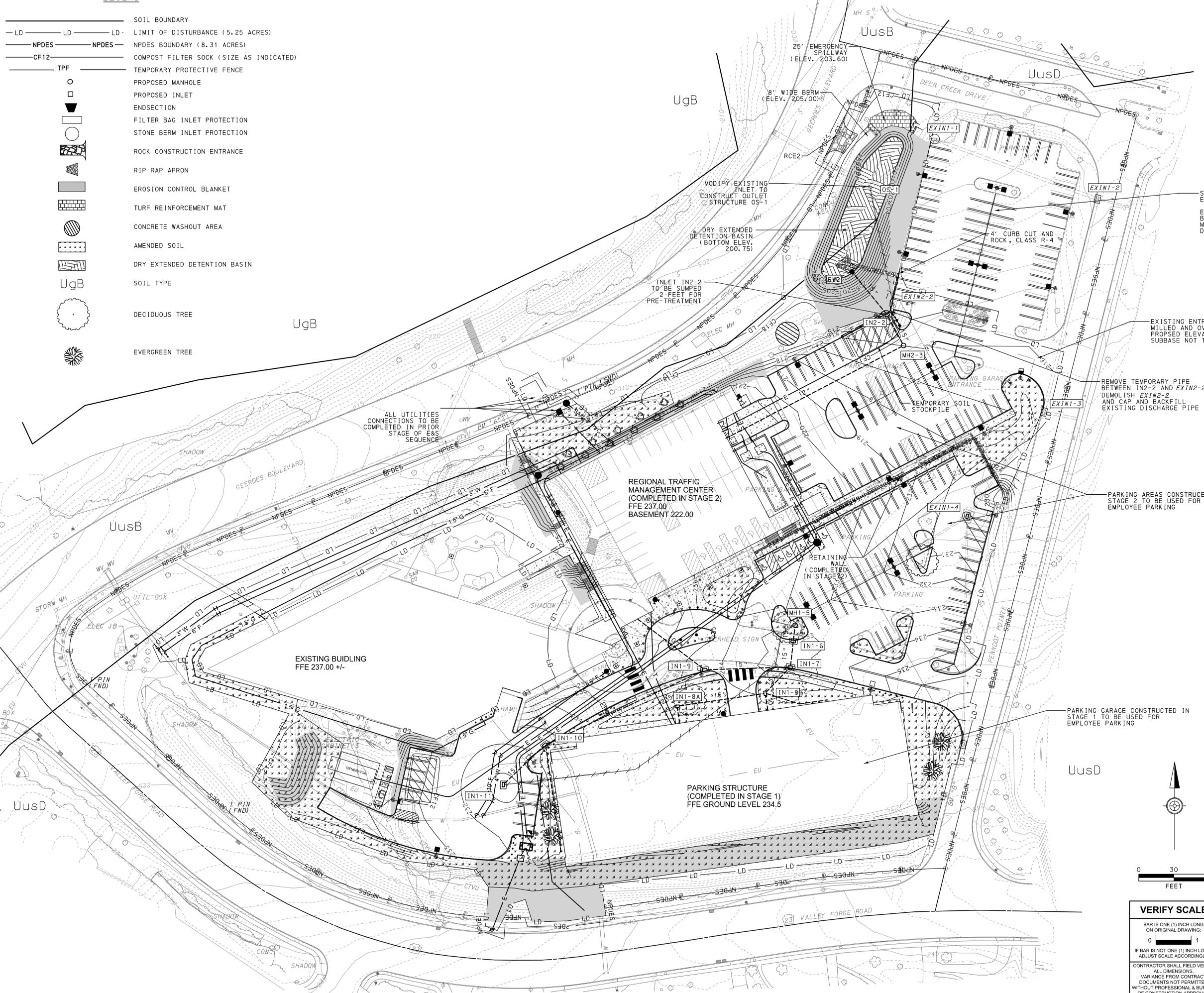
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING.
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY.

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

LEGEND

- SOIL BOUNDARY
- LD — LD — LD — LIMIT OF DISTURBANCE (5.25 ACRES)
- NPDES — NPDES — NPDES BOUNDARY (8.31 ACRES)
- CF12 — COMPOST FILTER SOCK (SIZE AS INDICATED)
- TPF — TEMPORARY PROTECTIVE FENCE
- PROPOSED MANHOLE
- PROPOSED INLET
- ▽ ENDSECTION
- FILTER BAG INLET PROTECTION
- STONE BERM INLET PROTECTION
- ▨ ROCK CONSTRUCTION ENTRANCE
- ▨ RIP RAP APRON
- ▨ EROSION CONTROL BLANKET
- ▨ TURF REINFORCEMENT MAT
- ▨ CONCRETE WASHOUT AREA
- ▨ AMENDED SOIL
- ▨ DRY EXTENDED DETENTION BASIN
- UgB SOIL TYPE
- DECIDUOUS TREE
- EVERGREEN TREE

NOTE:
THE EMERGENCY SPILLWAY WATER ELEVATION FOR THE PEAK FLOW RATE OF THE ONE-HUNDRED YEAR DESIGN STORM UNDER OUTLET BLOCKED CONDITIONS IS 203.98'. THIS PROVIDES A MINIMUM 1-FOOT FREEBOARD TO THE BASIN BERM ELEVATION OF 205.00'



STAGING AREA FOR STAGE 3. EXISTING PAVEMENT TO REMAIN

EXISTING PARKING LOT AREA TO BE MILLED AND OVERLAID TO MATCH EXISTING CONTOURS (NO DISTURBANCE)

EXISTING ENTRANCE AREA TO BE MILLED AND OVERLAID TO OBTAIN PROPOSED ELEVATION (EXISTING SUBBASE NOT TO BE DISTURBED)

REMOVE TEMPORARY PIPE BETWEEN IN2-2 AND EXIN2-2 AND CAP AND BACKFILL EXISTING DISCHARGE PIPE

PARKING AREAS CONSTRUCTED IN STAGE 2 TO BE USED FOR EMPLOYEE PARKING

PARKING GARAGE CONSTRUCTED IN STAGE 1 TO BE USED FOR EMPLOYEE PARKING

NOTE:
SEE SITE LANDSCAPING PLAN FOR ADDITIONAL TREE AND SHRUB LOCATIONS
NOT APPROVED FOR CONSTRUCTION

RECORD REVISIONS



benesch
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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
DGS C-0251-0095 PHASE 1-1

REGIONAL TRAFFIC MANAGEMENT CENTER AND PARKING STRUCTURE
DEPARTMENT OF TRANSPORTATION
King of Prussia, Upper Merion Township
Montgomery County, PA

EROSION & SEDIMENTATION POLLUTION CONTROL PLAN - STAGE 3

DRAWN BY	DATE	DRAWING No.
RMD	06/21/2020	C-802
CHECKED BY	SCALE	1" = 30 FT
CGB		

0 30 60
FEET

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING.
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

EROSION AND SEDIMENTATION CONTROL POLICIES

- ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILL SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
- AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.
- AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE MONTGOMERY COUNTY CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
- AREAS TO BE FILLED SHOULD BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
- CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPs SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
- AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF IN CERTAIN LOCATIONS AS NOTED ON THE PLAN BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
- TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAP(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET. STOCKPILE SLOPES MUST BE 2H:1V OR FLATTER.
- IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
- ALL BUILDING MATERIALS AND WASTES MUST BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS (25 PA. CODE 281.1, 281.11, AND 281.12). NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
- ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
- UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPs MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPs AFTER EACH RUNOFF EVENT AND ON A DAILY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF E&S BMPs FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPs, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
- A LOG SHOWING DATES THAT E&S BMPs WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
- SEDIMENT TRACKS ON ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEPED INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
- ALL SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
- AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARPED TO A MINIMUM DEPTH OF 3 TO 35 INCHES TO 12 INCHES ON COMPACTED SOILS. PRIOR TO PLACEMENT OF TOPSOIL, AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
- ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES, AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
- FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
- FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
- ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDING AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
- IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
- PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70 PERCENT VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
- E&S BMPs MUST REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
- CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.
- ALL CHANNELS SHALL BE KEPT FREE OF OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO FILL, ROCKS, LEAVES, WOODY DEBRIS, ACCUMULATED SEDIMENT, EXCESS VEGETATION, AND CONSTRUCTION MATERIAL/WASTES.
- UNDERGROUND UTILITIES CUTTING THROUGH ANY ACTIVE CHANNEL SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL RESTORED TO ITS ORIGINAL CROSS-SECTION AND PROTECTIVE LINING. ANY BASE FLOW WITHIN THE CHANNEL SHALL BE CONVEYED PAST THE WORK AREA IN THE MANNER DESCRIBED IN THIS PLAN UNTIL SUCH RESTORATION IS COMPLETE.
- CHANNELS HAVING RIPRAP, RENO MATTRESS, OR GABION LININGS MUST BE SUFFICIENTLY OVER-EXCAVATED SO THAT THE DESIGN DIMENSIONS WILL BE PROVIDED AFTER PLACEMENT OF THE PROTECTIVE LINING.
- SEDIMENT BASINS AND/OR TRAPS SHALL BE KEPT FREE OF ALL CONSTRUCTION WASTE, WASH WATER, AND OTHER DEBRIS HAVING POTENTIAL TO CLOG THE BASIN/TRAP OUTLET STRUCTURES AND/OR POLLUTE THE SURFACE WATERS.
- SEDIMENT BASINS SHALL BE PROTECTED FROM UNAUTHORIZED ACTS BY THIRD PARTIES.
- ANY DAMAGE THAT OCCURS IN WHOLE OR IN PART AS A RESULT OF BASIN OR TRAP DISCHARGE SHALL BE IMMEDIATELY REPAIRED BY THE PERMITTEE IN A PERMANENT MANNER SATISFACTORY TO THE MUNICIPALITY, LOCAL CONSERVATION DISTRICT, AND THE OWNER OF THE DAMAGED PROPERTY.
- UPON REQUEST, THE APPLICANT OR HIS CONTRACTOR SHALL PROVIDE AN AS-BUILT (RECORD DRAWING) FOR ANY SEDIMENT BASIN OR TRAP TO THE MUNICIPAL INSPECTOR, LOCAL CONSERVATION DISTRICT, OR THE DEPARTMENT.
- EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS.
- FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS.
- AS DISTURBED AREAS WITHIN THE PROJECT APPROACH FINAL GRADE, PREPARATIONS SHOULD BE MADE FOR SEEDING AND MULCHING TO BEGIN (ANTICIPATE THE COMPLETION DATE AND SCHEDULE THE SEEDER). THE DISTURBED AREAS WHICH ARE TO BE STABILIZED WITH VEGETATION ONCE FINAL GRADE IS REACHED SHOULD BE MINIMIZED TO THE GREATEST EXTENT POSSIBLE.
- EROSION AND SEDIMENT BMPs MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMPs.
- UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPs.
- AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPs MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION TRAFFIC MANAGEMENT BMPs. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPs SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS SHOULD BE DONE ONLY DURING THE GERMINATING SEASON.
- FAILURE TO CORRECTLY INSTALL E&S BMPs, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPs MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.

FILL MATERIALS NOTES AND ENVIRONMENTAL DUE DILIGENCE

IF THE SITE WILL NEED TO IMPORT OR EXPORT MATERIAL FROM THE SITE, THE RESPONSIBILITY FOR PERFORMING ENVIRONMENTAL DUE DILIGENCE AND DETERMINATION OF CLEAN FILL WILL REST WITH THE OPERATOR.

CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREGGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. (THE TERM *USED ASPHALT* DOES NOT INCLUDE MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE).

CLEAN FILL AFFECTED BY SPILL OR RELEASE OF A REGULATED SUBSTANCE: FILL MATERIALS AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE STILL QUALIFIES AS CLEAN FILL PROVIDED THE TESTING REVEALS THAT THE FILL MATERIAL CONTAINS CONCENTRATIONS OF REGULATED SUBSTANCES THAT ARE BELOW THE RESIDENTIAL LIMITS IN TABLES FP-1A AND FP-1B FOUND IN THE DEPARTMENT'S POLICY *MANAGEMENT OF FILL*.

ANY PERSON PLACING CLEAN FILL THAT HAS BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE MUST USE FORM FP-001 TO CERTIFY THE ORIGIN OF THE FILL MATERIAL AND THE RESULTS OF THE ANALYTICAL TESTING TO QUALIFY THE MATERIAL AS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE OWNER OF THE PROPERTY RECEIVING THE FILL. A COPY OF FORM FP-001 CAN BE FOUND AT THE END OF THE NOI INSTRUCTIONS.

ENVIRONMENTAL DUE DILIGENCE: THE APPLICANT MUST PERFORM ENVIRONMENTAL DUE DILIGENCE TO DETERMINE IF THE FILL MATERIALS ASSOCIATED WITH THE PROJECT QUALIFY AS CLEAN FILL. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS, ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND/OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECT TO A SPILL OR RELEASE OF REGULATED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE IF IT QUALIFIES AS CLEAN FILL. TESTING SHOULD BE PERFORMED IN ACCORDANCE WITH APPENDIX A OF THE DEPARTMENT'S POLICY *MANAGEMENT OF FILL*.

FILL MATERIAL THAT DOES NOT QUALIFY AS CLEAN FILL IS REGULATED FILL. REGULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH THE DEPARTMENT'S MUNICIPAL OR RESIDUAL WASTE REGULATIONS BASED ON 25 PA. CODE CHAPTERS 287 RESIDUAL WASTE MANAGEMENT OR 271 MUNICIPAL WASTE MANAGEMENT, WHICHEVER IS APPLICABLE. THESE REGULATIONS ARE AVAILABLE ON-LINE AT WWW.PACODE.COM.

WATERS OF THE COMMONWEALTH

THERE ARE NO WATERCOURSES WITHIN THE PROJECT BOUNDARIES, BUT THE PROJECT IS WITHIN THE TROUT CREEK WATERSHED WHICH RUNS SOUTH TO NORTH WEST OF THE PROJECT SITE. TROUT CREEK HAS A DESIGNATED USE AS A WARM WATER FISHES (WWF) WITH MIGRATORY FISHES (MF) BY PENNSYLVANIA CODE, TITLE 25, CHAPTER 93.

TROUT CREEK IS NOT AN APPROVED TROUT WATER, DOES NOT SUPPORT THE NATURAL REPRODUCTION OF TROUT, AND IS NOT A CLASS A WILD TROUT STREAM. THERE ARE NO STREAM IMPACTS TO TROUT CREEK.

TROUT CREEK IS NON-ATTAINING IMPAIRED STREAM FOR AQUATIC LIFE BY A SOURCE CAUSE OF WATER/FLOW VARIABILITY AND SILTATION.

TROUT CREEK IS LISTED AS HAVING NO ACTIVE TMDL'S.

AN EROSION & SEDIMENTATION POLLUTION CONTROL PLAN HAS BEEN PREPARED IN ACCORDANCE WITH CHAPTER 102 OF THE PA CODE, THE PA E&S MANUAL, AND THE DESIGN STANDARDS SET FORTH BY THE APPLICABLE MUNICIPAL ORDINANCES. THIS PLAN, THE BMPs PROPOSED AND THE PROPER SEQUENCING OF CONSTRUCTION ACTIVITIES WILL PROTECT THE RECEIVING WATERS FROM RECEIVING SEDIMENT LADEN RUNOFF DURING CONSTRUCTION ACTIVITIES.

NOT APPROVED FOR CONSTRUCTION

RECORD REVISIONS



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
DGS C-0251-0095 PHASE 1-1

VERIFY SCALE BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 1 IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY	REGIONAL TRAFFIC MANAGEMENT CENTER AND PARKING STRUCTURE DEPARTMENT OF TRANSPORTATION King of Prussia, Upper Merion Township Montgomery County, PA	
	EROSION & SEDIMENTATION POLLUTION CONTROL NOTES	
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	DRAWN BY: RMD CHECKED BY: CGB	DATE: 06/21/2020 SCALE: NO SCALE
		C-900

CONSTRUCTION SEQUENCE

THE OPERATOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED.

THE OPERATOR SHALL ASSURE THAT AN EROSION AND SEDIMENT CONTROL PLAN HAS BEEN PREPARED BY THE APPLICANT, SUBMITTED TO AND APPROVED BY THE MONTGOMERY COUNTY CONSERVATION DISTRICT, AND IS BEING IMPLEMENTED AND MAINTAINED FOR ALL SOIL AND/OR ROCK SPOIL AND BORROW AREAS, REGARDLESS OF THEIR LOCATIONS.

CESSATION OF ANY ACTIVITY SPECIFIED IN THE BELOW SEQUENCE FOR FOUR (4) DAYS OR LONGER REQUIRES TEMPORARY STABILIZATION.

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE.

AS DISTURBED AREAS WITHIN A PROJECT APPROACH FINAL GRADE, PREPARATIONS SHOULD BE MADE FOR SEEDING AND MULCHING TO BEGIN (I.E. ANTICIPATE THE COMPLETION DATE AND SCHEDULE SEEDER). IN NO CASE SHOULD AN AREA EXCEEDING 15,000 SQUARE FEET, WHICH IS TO BE STABILIZED BY VEGETATION, REACH FINAL GRADE WITHOUT BEING SEEDED AND MULCHED. WAITING UNTIL EARTHMOVING IS COMPLETED BEFORE MAKING PREPARATIONS FOR SEEDING AND MULCHING IS NOT ACCEPTABLE.

THE MAXIMUM BARE AREA OF A TRACT (WITHOUT STABILIZATION) SHALL NOT EXCEED 25% OF THE TOTAL AREA OF THE TRACT AT ANY ONE TIME.

STONE BERM INLET PROTECTION SHOULD BE REPLACED WITH INLET FILTER BAGS ONCE ADJACENT DRAINAGE AREA IS PAVED.

FILL SLOPES SHOULD BE SEEDED AND MULCHED AT REGULAR INTERVALS 15 TO 25 FEET MAXIMUM AS THE FILL IS BEING CONSTRUCTED. THIS WILL ALLOW THE BOTTOM OF THE FILL TO PROGRESS TOWARD STABILIZATION WHILE WORK CONTINUES ON THE UPPER PORTION, MAKING FINAL STABILIZATION EASIER TO ACHIEVE AND PROVIDING SOME VEGETATIVE BUFFERING AT THE BOTTOM OF THE FILL.

UNDERGROUND UTILITY INSTALLATION NOTE: FOR ALL UNDERGROUND UTILITY INSTALLATION INCLUDING STORM SEWER, SANITARY SEWER, WATER LINES, AND ALL OTHER UNDERGROUND UTILITIES BEING INSTALLED, THE TOTAL LENGTH OF EXCAVATED TRENCH OPEN AT ANY ONE TIME SHOULD NOT BE GREATER THAN THE TOTAL LENGTH OF UTILITY LINE THAT CAN BE PLACED IN THE TRENCH AND BACK-FILLED IN ONE WORKING DAY. ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE UPSLOPE SIDE OF THE TRENCH. NO MORE THAN 50 LINEAL FEET OF OPEN TRENCH SHOULD EXIST WHEN UTILITY LINE INSTALLATION CEASES AT THE END OF THE WORKDAY. SOIL SUPPLEMENTS, SEED AND MULCH MUST BE APPLIED ACCORDING TO PERMANENT STABILIZATION SPECIFICATIONS.

STAGE 1 – CONSTRUCTION PROPOSED PARKING STRUCTURE

1. THE MAXIMUM LIMITS OF EARTH DISTURBANCE FOR THE ENTIRE PROJECT MUST BE FIELD STAKED/MARKED FOR THE CONTRACTOR. WATERS OF THE COMMONWEALTH AND WETLAND AREAS NOT PERMITTED TO BE DISTURBED THAT ARE IN CLOSE PROXIMITY TO THE AREA OF DISTURBANCE SHALL BE FIELD STAKED/MARKED/FLAGGED AS NOT TO BE DISTURBED. STAKING/MARKING/FLAGGING CAN BE DONE BY USING STAKES AND ROPE, ORANGE CONSTRUCTION FENCE, OR ANY OTHER MEANS EASILY VISIBLE.
2. INSTALL ROCK CONSTRUCTION ENTRANCE RCE1, COMPOST FILTER SOCK, AND CONCRETE WASHOUT AS SHOWN ON THE E&S CONTROL PLAN. CONSTRUCTION STAGING AREA TO BE LOCATED AS SHOWN ON THE E&S CONTROL PLAN.
3. INSTALL INLET STORM SEWER PROTECTION AT EXISTING INLET LOCATIONS AS SHOWN ON THE E&S CONTROL PLANS AND DETAILS.
4. BEGIN CLEARING AND GRUBBING AND STRIPPING AND STOCKPILING OF TOPSOIL. STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET. STOCKPILE SLOPES MUST BE 2H:1V OR FLATTER.
5. PLACE PROPOSED STORM SEWER SYSTEM FROM MH1-5 TO IN1-11 WORKING DOWNSTREAM TO UPSTREAM. INSTALL INLET PROTECTION ON NEW INLET LOCATIONS AS SHOWN ON THE E&S CONTROL PLANS AND DETAILS.
6. REMOVE EXISTING PAVEMENT AND STORM SEWER SYSTEM AND RELOCATE EXISTING UTILITIES LOCATED WITHIN THE FOOTPRINT OF THE PROPOSED PARKING STRUCTURE. COMPLETE BULK GRADING ACTIVITIES.
7. BEGIN PARKING STRUCTURE CONSTRUCTION.
8. INSTALL ANY PROPOSED UNDERGROUND UTILITIES WITHIN THE AREAS SPECIFIED AS STAGE 1 ON THE E&S PLANS PER THE ABOVE UNDERGROUND UTILITY INSTALLATION NOTES.
9. COMPLETE SITE GRADING IN THE AREAS SPECIFIED AS STAGE 1 ON THE E&S PLANS AND BRING SITE TO FINAL SUBGRADE ELEVATION.
10. UPON REACHING FINAL SUBGRADE ELEVATION, INSTALL CURBING AND STONE SUBBASE. PAVING AND SIDEWALK CONSTRUCTION CAN BE COMPLETED AT THIS POINT OR ANY POINT AFTER BASED ON TRAFFIC CIRCULATION REQUIREMENTS.
11. INSTALL COMPOST AMENDED SOILS IN STAGE 1 OR AT ANY POINT AFTER IN CONSTRUCTION WHILE MAINTAINING PERIMETER CONTROLS AS SPECIFIED ON THE E&S CONTROL PLANS AND DETAILS. CRITICAL STAGE: A LICENSED PROFESSIONAL SHOULD BE PRESENT DURING THE INSTALLATION OF COMPOST AMENDED SOIL.
12. IMPLEMENT PERMANENT VEGETATIVE STABILIZATION OF ALL AREAS DISTURBED ASSOCIATED WITH THE CONSTRUCTION OF THE PARKING STRUCTURE AND INSTALL EROSION CONTROL BLANKET ON ANY DISTURBED AREA SPECIFIED ON THE E&S CONTROL PLAN TO CONTAIN EROSION CONTROL BLANKET OR ANY OTHER DISTURBED AREAS WITH SLOPES OF 3:1 OR STEEPER.

STAGE 2 – DEMOLISH EXISTING PARKING STRUCTURE AND CONSTRUCT REGIONAL TRAFFIC MANAGEMENT CENTER

13. MAINTAIN ROCK CONSTRUCTION ENTRANCE RCE1 AND INSTALL ROCK CONSTRUCTION ENTRANCE RCE2 AND CONCRETE WASHOUT AS SHOWN ON THE E&S CONTROL PLAN. CONSTRUCTION STAGING AREA TO BE LOCATED AS SHOWN ON THE E&S CONTROL PLAN.
14. INSTALL INLET STORM SEWER PROTECTION AT EXISTING INLET LOCATIONS AS SHOWN ON THE E&S CONTROL PLANS AND DETAILS.
15. BEGIN CLEARING AND GRUBBING AND STRIPPING AND STOCKPILING OF TOPSOIL. STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET. STOCKPILE SLOPES MUST BE 2H:1V OR FLATTER.
16. PLACE REQUIRED SHORING AND BEGIN DEMOLITION OF EXISTING PARKING STRUCTURE INCLUDING DEMOLITION OF EXISTING STORM SEWER SYSTEM.
17. AS EXISTING PARKING STRUCTURE IS BEING DEMOLISHED, CONSTRUCT RETAINING WALL.
18. REMOVE EXISTING PAVEMENT AND BEGIN BULK SITE GRADING ACTIVITIES. ONCE BUILDING PAD IS FINALIZED, BEGIN CONSTRUCTION OF REGIONAL TRAFFIC MANAGEMENT CENTER.
19. PLACE PROPOSED STORM SEWER SYSTEM TO IN2-2 TO MH2-3. IN2-1 IS TO BE TEMPORARILY DIRECTED TO EXISTING IN2-1.
20. INSTALL INLET PROTECTION ON NEW INLET LOCATIONS AS SHOWN ON THE E&S CONTROL PLANS AND DETAILS. CONNECT RTMC ROOF DRAINAGE ONCE INSTALLED.
21. INSTALL ANY PROPOSED UNDERGROUND UTILITIES WITHIN THE AREAS SPECIFIED AS STAGE 2 ON THE E&S PLANS PER THE ABOVE UNDERGROUND UTILITY INSTALLATION NOTES.
22. UPON REACHING FINAL SUBGRADE ELEVATION, INSTALL CURBING AND STONE SUBBASE. PAVING AND SIDEWALK CONSTRUCTION CAN BE COMPLETED AT THIS POINT OR ANY POINT AFTER BASED ON TRAFFIC CIRCULATION REQUIREMENTS.
23. INSTALL COMPOST AMENDED SOILS IN STAGE 2 OR AT ANY POINT AFTER IN CONSTRUCTION WHILE MAINTAINING PERIMETER CONTROLS AS SPECIFIED ON THE E&S CONTROL PLANS AND DETAILS. CRITICAL STAGE: A LICENSED PROFESSIONAL SHOULD BE PRESENT DURING THE INSTALLATION OF COMPOST AMENDED SOIL.
24. IMPLEMENT PERMANENT VEGETATIVE STABILIZATION OF ALL AREAS DISTURBED ASSOCIATED WITH THE CONSTRUCTION OF THE RTMC AND INSTALL EROSION CONTROL BLANKET ON ANY DISTURBED AREA SPECIFIED ON THE E&S CONTROL PLAN TO CONTAIN EROSION CONTROL BLANKET OR ANY OTHER DISTURBED AREAS WITH SLOPES OF 3:1 OR STEEPER.

STAGE 3 – CONSTRUCT DRY EXTENDED DETENTION BASIN, PLACE PLANTING SOIL MEDIA, AND COMPLETE INCIDENTAL ITEMS OF CONSTRUCTION

25. REMOVE ROCK CONSTRUCTION ENTRANCE RCE 1 AND MODIFY ROCK CONSTRUCTION ENTRANCE RCE2. INSTALL CONCRETE WASHOUT AS SHOWN ON THE E&S CONTROL PLAN. MAINTAIN CONSTRUCTION STAGING AREA TO BE LOCATED AS SHOWN ON THE E&S CONTROL PLAN.
26. INSTALL ALL PROPOSED TREES IF NOT PREVIOUSLY INSTALLED, INCLUDING THE TREES CREDITED AS A BMP TREE PLANTING TREE. CRITICAL STAGE: A LICENSED PROFESSIONAL SHALL VERIFY ALL EVERGREEN AND DECIDUOUS BMP TREES HAVE BEEN PLANTED.
27. REMOVE TEMPORARY STUB PIPE FROM IN2-2 TO EXISTING INLET 2-2. DEMOLISH EXISTING IN2-2 AND CAP OR BACKFILL EXISTING DISCHARGE PIPE.
28. CONSTRUCT STORM SEWER SYSTEM FROM ES2 TO IN2-2, INCLUDING RIPRAP APRON.
29. COMPLETE MODIFICATION OF EXISTING INLET TO CONSTRUCT OUTLET STRUCTURE OS-1 AS SHOWN ON THE E&S CONTROL PLAN AND DETAILS. CRITICAL STAGE: A LICENSED PROFESSIONAL SHALL CONFIRM CONFIGURATION OF PERMANENT OUTLET STRUCTURE.
30. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES ASSOCIATED WITH THE CONSTRUCTION OF THE PARKING STRUCTURE AND THE REGIONAL TRAFFIC MANAGEMENT CENTER, THE OWNER AND/OR OPERATORS SHALL CONTACT THE MONTGOMERY COUNTY CONSERVATION DISTRICT AND THE LICENSED PROFESSIONAL FOR A PRE-FINAL INSPECTION PRIOR TO CONSTRUCTION OF DRY EXTENDED DETENTION BASIN AND PLACEMENT OF COMPOST AMENDED SOILS.
31. ALL TRIBUTARY AREAS TO THE DRY EXTENDED DETENTION BASIN SHALL BE COMPLETELY STABILIZED PRIOR TO CONSTRUCTION AND THE STORM SEWER SYSTEMS DRAINING TO THE BASIN HAVE BEEN FLUSHED OUT BY AT LEAST ONE STORM EVENT. A MINIMUM OF 70 PERCENT PERENNIAL VEGETATIVE COVER MUST EXIST PRIOR TO CONSTRUCTION OF DRY EXTENDED DETENTION BASIN AND PLACEMENT OF PLANTING SOIL MEDIA.
32. BEGIN GRADING OF DRY EXTENDED DETENTION BASIN AND OVER-EXCAVATE TO THE DEPTH REQUIRED FOR INSTALLATION OF THE SPECIFIED PLANTING SOIL MEDIA.
33. ONCE BASIN IS OVER-EXCAVATED, INSTALL IMPERVIOUS LINER AND PLANTING SOIL MEDIA ALONG THE BOTTOM AS SPECIFIED IN THE E&S CONTROL PLANS AND DETAILS. SEDIMENT SHALL BE PREVENTED FROM ENTERING THE BASIN DURING CONSTRUCTION. CRITICAL STAGE: A LICENSED PROFESSIONAL SHALL BE PRESENT DURING PLANTING SOIL MEDIA PLACEMENT.
34. ONCE PLANTING SOIL MEDIA PLACEMENT IS COMPLETE, IMMEDIATELY IMPLEMENT VEGETATIVE STABILIZATION OF THE BOTTOM WITH THE BASIN BOTTOM SEED MIXTURE SPECIFIED IN THE PCSM PLANS FOR BASIN. INSTALL EROSION CONTROL BLANKET ON ANY AREAS DISTURBED DURING BASIN CONSTRUCTION WITH SIDE SLOPES OF 3:1 OR STEEPER.
35. IMPLEMENT PERMANENT VEGETATIVE STABILIZATION OF ALL AREAS DISTURBED ASSOCIATED WITH THE INSTALLATION OF THE PLANTING SOIL MEDIA AND INSTALL EROSION CONTROL BLANKET ON ANY DISTURBED AREA SPECIFIED ON THE E&S CONTROL PLAN TO CONTAIN EROSION CONTROL BLANKET OR ANY OTHER DISTURBED AREAS WITH SLOPES OF 3:1 OR STEEPER.
36. SITE SIGNAGE, PAVEMENT MARKING, AND OTHER INCIDENTAL ITEMS OF CONSTRUCTION AS NECESSARY TO COMPLETE WORK.
37. AFTER FINAL SITE PERMANENT STABILIZATION OF AREAS ASSOCIATED WITH ALL STAGES HAVE BEEN ACHIEVED, ALL TEMPORARY EROSION AND SEDIMENT BMPs IN PROJECT AREA MUST BE REMOVED INCLUDING INLET PROTECTION, ETC. AREAS DISTURBED DURING REMOVAL OF THE BMPs SHALL BE STABILIZED IMMEDIATELY IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS SHOULD BE DONE ONLY DURING THE GERMINATING SEASON.
38. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70 PERCENT VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.

FINAL GENERAL CONSTRUCTION SEQUENCE ITEMS

1. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE MONTGOMERY COUNTY CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION AS NECESSARY.
2. WITHIN 30 DAYS AFTER THE COMPLETION OF EARTH DISTURBANCE ACTIVITIES AUTHORIZED BY THIS PERMIT, INCLUDING THE PERMANENT STABILIZATION OF THE SITE AND PROPER INSTALLATION OF PCSM BMPs IN ACCORDANCE WITH THE APPROVED PCSM PLAN, OR UPON SUBMISSION OF THE NOT IF SOONER, THE PERMITTEE SHALL FILE WITH THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT A STATEMENT SIGNED BY A LICENSED PROFESSIONAL AND BY THE PERMITTEE CERTIFYING THAT WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THIS PERMIT AND THE APPROVED E&S AND PCSM PLANS. COMPLETION CERTIFICATES ARE NEEDED TO ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE PERMIT AND THE APPROVED E&S AND PCSM PLANS.

MAINTENANCE OF E&S CONTROL DEVICES

THE SOIL EROSION AND SEDIMENTATION CONTROLS UTILIZED IN THE DEVELOPMENT OF THIS PLAN SHALL BE ROUTINELY MAINTAINED IN ORDER TO KEEP THEM FUNCTIONING PROPERLY UNTIL SITE STABILIZATION OCCURS. THE CONTRACTOR SHALL PERFORM CERTAIN PERIODIC DUTIES IN ORDER TO ASSURE PROPER CONTROL MAINTENANCE OF THE VARIOUS EROSION AND SEDIMENTATION CONTROLS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING GENERAL MAINTENANCE PROCEDURES OUTLINED BELOW.

MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENTATION MEASURES AFTER EACH RUNOFF EVENT EQUAL TO OR GREATER THAN 0.25 INCHES AND ON A DAILY BASIS UNLESS MORE FREQUENTLY SPECIFIED IN DETAILS BY A QUALIFIED PERSON TRAINED AND EXPERIENCED IN EROSION AND SEDIMENTATION CONTROL AND WHO HAS SITE SUPERVISION RESPONSIBILITIES, TO ASCERTAIN THAT THE EROSION CONTROL MEASURES ARE OPERATIONAL AND EFFECTIVE IN PREVENTING SEDIMENT FROM LEAVING THE SITE. A WRITTEN REPORT OF EACH INSPECTION SHALL BE KEPT AND INCLUDE: A SUMMARY OF SITE CONDITIONS, BMPs AND COMPLIANCE, AND THE DATE, TIME AND THE NAME OF THE PERSON CONDUCTING THE INSPECTION. ALL SITE INSPECTIONS WILL BE DOCUMENTED IN AN INSPECTION LOG KEPT FOR THIS PURPOSE INCLUDING THE COMPLIANCE ACTIONS, DATE, TIME AND NAME OF THE PERSON CONDUCTING THE INSPECTION. THE INSPECTION LOG SHALL BE KEPT ON SITE AT ALL TIMES AND MADE AVAILABLE TO THE CONSERVATION DISTRICT UPON REQUEST.

MISCELLANEOUS ADJUSTMENTS AND CORRECTIONS SHALL BE MADE TO ANY EROSION CONTROL STRUCTURE AS DEEMED NECESSARY BY THE ENGINEER, TOWNSHIP OFFICIAL, OR COUNTY CONSERVATION DISTRICT REPRESENTATIVE IN ORDER TO CORRECT UNFORESEEN PROBLEMS CAUSED BY A STORM PRIOR TO STABILIZATION.

SEE DETAILS FOR MAINTENANCE OR EROSION & SEDIMENTATION CONTROL DEVICES.

NPDES PERMIT NOTES

1. UPON REDUCTION, LOSS OR FAILURE OF THE BMP'S, THE PERMITTEE AND CO-PERMITTEE SHALL TAKE IMMEDIATE ACTION TO RESTORE THE BMP'S OR PROVIDE AN ALTERNATIVE METHOD OF TREATMENT.
2. WHERE E&S BMP'S ARE FOUND TO BE INOPERATIVE OR INEFFECTIVE DURING AN INSPECTION, OR ANY OTHER TIME, THE PERMITTEE SHALL IMMEDIATELY CONTACT THE COUNTY CONSERVATION DISTRICT, BY PHONE OR PERSONAL CONTACT, FOLLOWED BY THE SUBMISSION OF A WRITTEN REPORT WITHIN 5 DAYS OF THE INITIAL CONTACT.
3. PERMITTEE'S REQUESTING RENEWAL OF COVERAGE UNDER INDIVIDUAL NPDES PERMIT MUST SUBMIT TO THE COUNTY CONSERVATION DISTRICT AN ADMINISTRATIVELY COMPLETE AND ACCEPTABLE NOI, AT LEAST 90 DAYS PRIOR TO THE EXPIRATION DATE OF THE COVERAGE.
4. NOTICE OF TERMINATION, WHERE ALL STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT ARE AUTHORIZED BY THIS PERMIT ARE ELIMINATED, AND BMP'S IDENTIFIED IN THE POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) PLAN HAVE BEEN INSTALLED, THE PERMITTEE CO-PERMITTEE OF THE FACILITY MUST SUBMIT A NOTICE OF TERMINATION (NOT) FORM THAT IS SIGNED IN ACCORDANCE WITH PART B.1.C (SIGNATORY REQUIREMENTS) OF THIS PERMIT TO THE COUNTY CONSERVATION DISTRICT.

PREPAREDNESS, PREVENTION AND CONTINGENCY PLANS

IF THE POTENTIAL EXISTS FOR CAUSING ACCIDENTAL POLLUTION OF AIR, LAND, OR WATER, OR FOR CAUSING ENDANGERMENT OF PUBLIC HEALTH AND SAFETY THROUGH ACCIDENTAL RELEASE OF TOXIC, HAZARDOUS, OR OTHER POLLUTING MATERIALS, THE PERMITTEE OR CO-PERMITTEE MUST DEVELOP A PREPAREDNESS, PREVENTION AND CONTINGENCY (PPC) PLAN. THE PPC PLAN SHALL BE DEVELOPED IN ACCORDANCE WITH APPLICABLE DEP REGULATIONS. THE PPC PLAN SHALL IDENTIFY AREAS WHICH MAY INCLUDE, BUT ARE NOT LIMITED TO, WASTE MANAGEMENT AREAS, RAW MATERIAL STORAGE AREAS, TEMPORARY AND PERMANENT SPOILS STORAGE AREAS, MAINTENANCE AREAS, AND ANY OTHER AREAS THAT MAY HAVE THE POTENTIAL TO CAUSE NON-COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE NPDES PERMIT DUE TO THE STORAGE, HANDLING OR DISPOSAL OF ANY TOXIC OR HAZARDOUS SUBSTANCES SUCH AS OIL, GASOLINE, PESTICIDES, HERBICIDES, SOLVENTS, ETC. BMP'S SHALL BE DEVELOPED AND IMPLEMENTED FOR EACH IDENTIFIED AREA. THE PPC PLAN SHALL BE MAINTAINED ON SITE AT ALL TIMES AND SHALL BE MADE AVAILABLE FOR REVIEW AT THE DEPARTMENT'S OR AUTHORIZED COUNTY CONSERVATION DISTRICT'S REQUEST.

CRITICAL STAGES OF BMP IMPLEMENTATION

AS A CONDITION OF THE NPDES PERMIT, THE PCSM PLAN MUST IDENTIFY THE CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN THAT A LICENSED PROFESSIONAL OR A DESIGNEE OF THE APPLICANT MUST BE PRESENT ONSITE DURING SPECIFIC STAGE AND TIMES OF CONSTRUCTION OF BMP'S. THESE CRITICAL STAGES ARE AS FOLLOWS:

1. CONFIGURATION OF OUTLET STRUCTURE OS-1. VERIFY ORIFICE SIZE AND HEIGHT FROM BOTTOM OF BASIN TO TOP OF STRUCTURE.
2. INSTALLATION OF PLANTING SOIL MEDIA. VERIFY COMPOSITION OF PLANTING SOIL MEDIA AND DEPTH OF PLANTING SOIL.
3. INSTALLATION OF COMPOST AMENDED SOIL. VERIFY COMPOSITION OF SOIL AND PLACEMENT.
4. VERIFICATION THAT ALL EVERGREEN AND DECIDUOUS BMP TREE PLANTING TREES HAVE BEEN PLANTED AND ARE ALIVE.

SOILS INFORMATION, LIMITATIONS & RESOLUTIONS

MAP UNIT SYMBOL	MAP UNIT NAME	SOIL LIMITATIONS AND RATINGS		
		LOCAL ROADS AND STREETS	FILL SOURCE	TOPSOIL SOURCE
UgB	URBAN LAND, 0 TO 8 PERCENT SLOPES	VERY LIMITED	POOR	POOR
UusB	URBAN LAND-URDORTMENTS, SHALE AND SANDSTONE COMPLEX, 0 TO 8 PERCENT SLOPES	VERY LIMITED	POOR	POOR
UssD	URBAN LAND-URDORTMENTS, SHALE AND SANDSTONE COMPLEX, 8 TO 25 PERCENT SLOPES	VERY LIMITED	POOR	POOR

THE SOIL LIMITATIONS FOR ROADS & STREETS & ROAD FILL MATERIAL WILL BE ACCOMMODATED BY REMOVING THE UNSUITABLE MATERIAL, COMPACTING THE EXISTING SUBGRADE AND PLACING SUBBASE MATERIAL TO ACHIEVE A STABLE BASE. IN THE EVENT A SEASONABLY HIGH WATER TABLE IS ENCOUNTERED OR SURFACE RUNOFF REACHES THE WORK AREAS, DEWATERING WILL BE COMPLETED WITH PUMPS AND PUMPED WATER FILTER BAGS. IF THE ONSITE MATERIAL IS DEEMED UNACCEPTABLE FOR THE USE OF TOPSOIL, SUITABLE FILL MATERIAL AND TOPSOIL WILL BE IMPORTED FROM OFFSITE SOURCES AS NEEDED.

EXCESS FILL TO BE REMOVED FROM THE PROJECT WILL BE DISPOSED AT A SITE WITH A SEPARATE E&S PLAN APPROVED BY THE CONSERVATION DISTRICT. ADDITIONALLY, ALL TOPSOIL STOCKPILES NOT SHOWN ON THE PLAN ARE TO BE LOCATED ON A SITE WITH AN E&S PLAN APPROVED BY THE CONSERVATION DISTRICT. THESE SITES AND THEIR NECESSARY APPROVALS ARE THE RESPONSIBILITY OF THE CONTRACTOR AFTER PROJECT AWARD.

TO ACCOMMODATE PUMPED WATER ENTERING WORK AREAS, DEWATERING WILL BE COMPLETED THROUGH THE USE OF PUMPS AND PUMPED WATER FILTER BAGS.

NOT APPROVED FOR CONSTRUCTION

RECORD REVISIONS

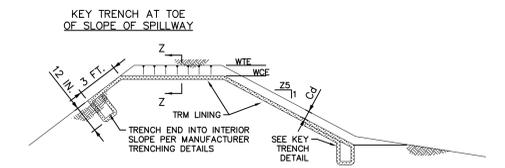
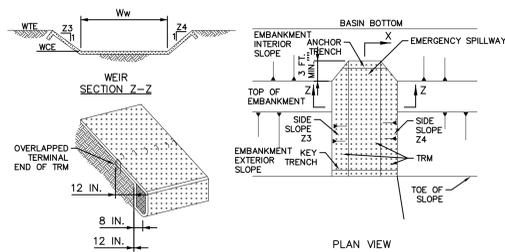



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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
DGS C-0251-0095 PHASE 1-1

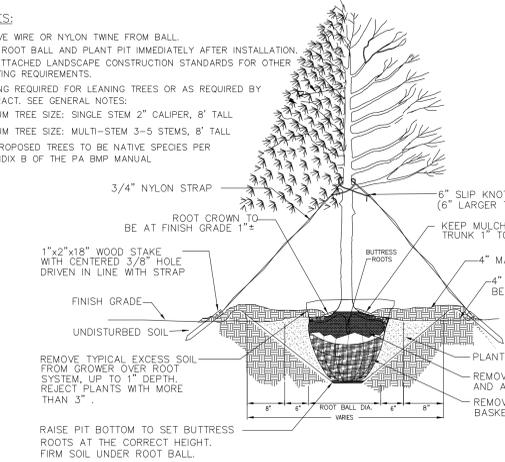
VERIFY SCALE BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0  1 IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY	REGIONAL TRAFFIC MANAGEMENT CENTER AND PARKING STRUCTURE DEPARTMENT OF TRANSPORTATION King of Prussia, Upper Merion Township Montgomery County, PA		
	EROSION & SEDIMENTATION POLLUTION CONTROL NOTES		
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	DRAWN BY: RMD CHECKED BY: CGB	DATE: 06/21/2020 SCALE: NO SCALE	DRAWING No. C-901



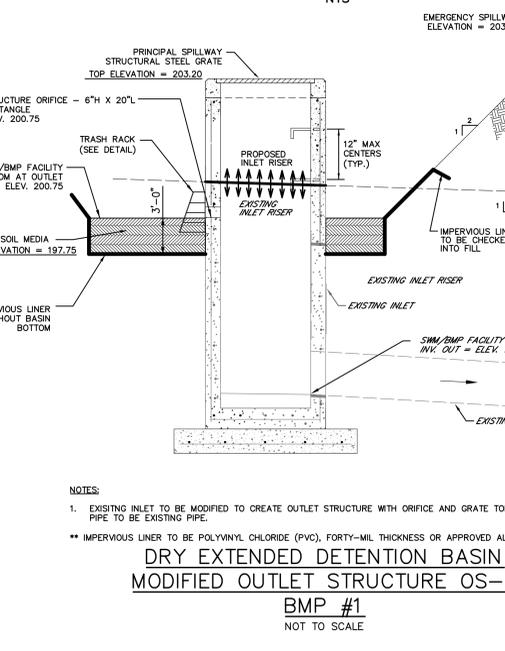
FACILITY NO.	WEIR		CREST ELEV WCE (FT)	WIDTH Ww (FT)	LINING		CHANNEL DEPTH Cd (FT)
	Z3 (FT)	Z4 (FT)			TRM TYPE	STAPLE PATTERN	
1	3	3	205.00	203.60	25	N.A.G P-300 SHINGLE STYLE	3

- NOTES:
- HEAVY EQUIPMENT SHALL NOT CROSS OVER SPILLWAY WITHOUT PRECAUTIONS TAKEN TO PROTECT TRM LINING.
 - DISPLACED LINER WITHIN THE SPILLWAY AND/OR OUTLET CHANNEL SHALL BE REPLACED IMMEDIATELY.
 - THE USE OF BASKETS THAT REQUIRE SUPPORT POSTS ARE RESTRICTED FROM USE IN BASINS REQUIRING IMPERVIOUS LINERS.
 - NORTH AMERICAN GREEN P-300 OR APPROVED ALTERNATE MUST BE USED.

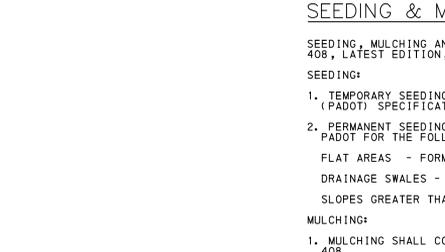
EMERGENCY SPILLWAY WITH TRM LINING
NOT TO SCALE



TREE PLANTING - BMP #3
NOT TO SCALE



DRY EXTENDED DETENTION BASIN MODIFIED OUTLET STRUCTURE OS-1
BMP #1 NOT TO SCALE



ORIFICE TRASH RACK
NOT TO SCALE



RIPRAP APRON AT PIPE OUTLET WITH FLARED END SECTION
NOT TO SCALE

OUTLET	FROM STRUCTURE	PIPE DIA (IN)	TAILWATER CONDITION (MAX/MIN)	Q (CFS)	V (FPS)	RIPRAP SIZE	Rt (IN)	At (FT)	Alw (FT)	Alw (FT)
ES2	IN2-2	15	MIN	6.03	11.00	R-5	27	8	3.75	9.083

COMPOST AMENDED SOIL INSTALLATION NOTES - BMP #2

SPREAD 2-3 INCHES OF APPROVED COMPOST IN EXISTING SOIL. TILL ADDED SOIL INTO EXISTING SOIL WITH ROTARY TILLER THAT IS SET TO A DEPTH OF 6 INCHES. ADD AN ADDITIONAL 4 INCHES OF COMPOST TO BRING THE AREA UP TO GRADE.



PLANTING SOIL MEDIA NOTES

- NOTES:
- PLANTING SOIL MEDIA TO BE WELL BLENDED SANDY LOAM TOPSOIL WITH MIN. 50% SAND, ORGANIC MATTER (COMPOST) SHALL COMPRISE 20% NATIVE TOPSOIL TO COMPRISE 30%.
 - 3" OF PLANTING SOIL MEDIA TO BE PLACED IN THE DRY EXTENDED DETENTION BASIN.
 - THE PLANTING SOIL MIXTURE SHALL BE APPLIED TO THE BOTTOM CONTOUR AREAS SPECIFIED ON THE PLANS.
 - THE PLANTING SOIL MIXTURE SHOULD BE FREE OF SUBSOIL, CLAY LUMPS, BRUSH, ROOTS, WEEDS AND ANY OTHER FOREIGN MATTER.
 - THE SAND BEING USED IN THE PLANTING MIX SHOULD BE WASHED SHARP SAND PER ASTM C-33.
 - IT IS IMPORTANT TO NOTE THAT THE SAND SHOULD ALWAYS BE COURSE, SHARP SAND. IT SHOULD NEVER BE A CONTRACTOR BUILDING SAND.

DEPTH (IN)	CY PER 1,000 SQUARE FEET	CY PER ACRE
1	3.1	134
2	6.2	268
3	9.3	403
4	12.4	537
5	15.5	672
6	18.6	806
7	21.7	940
8	24.8	1,074

TOPSOIL APPLICATION RATES

- NOTES:
- GRADED AREAS SHOULD BE SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5 INCHES TO PERMIT BONDING OF THE TOPSOIL TO THE SURFACE AREAS AND TO PROVIDE A ROUGHENED SURFACE TO PREVENT TOPSOIL FROM SLIDING DOWN SLOPE.
 - TOPSOIL SHOULD BE UNIFORMLY DISTRIBUTED ACROSS THE DISTURBED AREA TO A DEPTH OF 4 TO 8 INCHES MINIMUM - 2 INCHES ON FILL OUTSLOPES. SPREADING SHOULD BE DONE IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL PREPARATION OR TILLAGE. IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOIL PLACEMENT SHOULD BE CORRECTED IN ORDER TO PREVENT FORMATION OF DEPRESSIONS UNLESS SUCH DEPRESSIONS ARE PART OF THE PCSM PLAN.
 - TOPSOIL SHOULD NOT BE PLACED WITH 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, COMPACTED SOILS SHOULD BE 6 TO 12 INCHES ALONG CONTOUR WHEREVER POSSIBLE PRIOR TO SEEDING.

SEEDING & MULCHING SPECIFICATIONS

SEEDING, MULCHING AND SOIL SUPPLEMENTS SHALL MEET THE REQUIREMENTS OF THE PA DEPARTMENT OF TRANSPORTATION (PADOT) SPECIFICATIONS, PUBLICATION 408, LATEST EDITION, SECTIONS 804 AND 805 AND SHALL BE APPLIED DURING THE PRESCRIBED PLANTING PERIOD.

- SEEDING:
- TEMPORARY SEEDING SHALL CONSIST OF 100 PERCENT ANNUAL RYE GRASS AND SHALL CONFORM TO THE REQUIREMENTS OF THE PA DEPARTMENT OF TRANSPORTATION (PADOT) SPECIFICATIONS FOR FORMULA E SEED MIXTURE. THE SEEDING APPLICATION RATE SHALL BE 10 LBS./1,000 SQ. YDS.
 - PERMANENT SEEDING SHALL CONSIST OF PERENNIAL GRASSES (I.E., KENTUCKY BLUEGRASS, FESCUE, PERENNIAL RYE) AND SHALL MEET THE REQUIREMENTS OF PADOT FOR THE FOLLOWING APPLICATIONS:
FLAT AREAS - FORMULA L SEED MIXTURE WITH A SEEDING APPLICATION RATE OF 48 LBS./1,000 SQ. YDS.
DRAINAGE SWALES - FORMULA D SEED MIXTURE WITH A SEEDING APPLICATION RATE OF 5 OLBLS./1,000 SQ. YDS.
SLOPES GREATER THAN 3:1 - FORMULA N SEED MIXTURE WITH A SEEDING APPLICATION RATE OF 30 LBS./1,000 SQ. YDS.

- MULCHING:
- MULCHING SHALL CONSIST OF STRAW MULCH AND SHALL MEET THE SPECIFICATIONS AND APPLICATION RATES AS PRESCRIBED IN SECTION 805 OF PUBLICATION 408.
 - THE MULCHING SHALL ALSO BE UTILIZED DURING WINTER MONTHS FOR GROUND COVER STABILIZATION ON TOPSOIL STOCKPILES, GRADED SLOPES AND OTHER AREAS TO BE GRASSED IN THE FUTURE.
 - STRAW MULCH SHALL BE APPLIED AT THE RATE OF 1,200 POUNDS PER 1,000 SQUARE YARDS AND APPLIED WITHIN 48 HOURS OF PLACING SEEDING. ON STEEP SLOPES OF 3:1 OR GREATER, MULCH SHALL BE SECURED THROUGH THE USE OF SPECIFIED NETTING MATERIAL.
 - MULCH SHOULD BE ANCHORED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDBLOWN. ANCHOR MULCH WITH SPECIFIED MULCH BINDERS APPLIED IN ACCORDANCE WITH SECTION 805.3.

SOIL SUPPLEMENTS:

- SUPPLEMENTS SHALL CONFORM TO THE REQUIREMENTS OF PADOT PUBLICATION 408, SECTION 804 AND SHALL BE APPLIED DURING THE APPROPRIATE TIMES.

TEMPORARY APPLICATION:
LIME: AGRICULTURAL LIME AT 410 LBS./1,000 SQ. YDS.
FERTILIZER: 10-10-10 ANALYSIS COMMERCIAL FERTILIZER TO BE APPLIED AT 100 LBS./1,000 SQ. YDS.

PERMANENT APPLICATION:
LIME: AGRICULTURAL LIME AT 2,480 LBS./1,000 SQ. YDS.
FERTILIZER: 10-10-20 ANALYSIS COMMERCIAL FERTILIZER TO BE APPLIED AT 210 LBS./1,000 SQ. YDS.

FORMULA AND SPECIES	WEIGHT	MINIMUM %			SEEDING RATE PER 1000 SQ. YD. (LBS.)
		PURITY	GERMINATION	WEED SEED	
FORMULA B MIX: PERENNIAL RYEGRASS MIXTURE (LOLIUM PERENNE) - A COMBINATION OF IMPROVED CERTIFIED VARIETIES WITH NO ONE VARIETY EXCEEDING 50% OF THE TOTAL RYEGRASS COMPONENT.	20	97	90	0.10	44.0 TOTAL 8.5
CREeping RED FESCUE OR CHEWINGS FESCUE (FESTUCA RUBRA OR SSP COMMUTATE) (IMPROVED AND CERTIFIED)	30	97	85	0.10	12.5
KENTUCKY BLUEGRASS MIXTURE (POA PRATENSIS) - A COMBINATION OF IMPROVED CERTIFIED VARIETIES WITH NO ONE VARIETY EXCEEDING 50% OF THE TOTAL BLUEGRASS COMPONENT.	45	97	80	0.15	21.0
ANNUAL RYEGRASS (LOLIUM MULTIFLORUM)	5	95	90	0.10	2.0
FORMULA E: ANNUAL RYEGRASS (LOLIUM MULTIFLORUM)	100	95	90	0.10	10.0 TOTAL 10.0
FORMULA N CONSERVATION MIX: HARD FESCUE MIXTURE (FESTUCA LONGIFLOIA) - A COMBINATION OF IMPROVED CERTIFIED VARIETIES WITH NO ONE VARIETY EXCEEDING 50% OF THE TOTAL HARD FESCUE COMPONENT.	30	97	85	0.10	30.0 TOTAL 9.0
CREeping RED FESCUE (FESTUCA RUBRA) (IMPROVED AND CERTIFIED)	30	97	85	0.10	9.0
LITTLE BLUESTEM (ANDROPOGON SCOPARIUS)	4	80	70	0.20	1.2
CANADA WILD RYE (ELYMUS CANADEIS)	6	85	70	0.20	1.8
VIRGINIA WILD RYE (ELYMUS VIRGINICUS)	4	85	70	0.20	1.2
INDIANGRASS (SORGHASRUM NUTANS)	3	85	70	0.20	0.9
ANNUAL RYEGRASS (LOLIUM MULTIFLORUM)	10	95	90	0.10	3.0
BLACK EYED SUSAN (RUDBECKIA HIRTA)	5	80	60	0.20	1.5
NEW ENGLAND ASTER (SYMPHYOTRICHUM NOVAE-ANGLIE)	3	80	50	0.20	0.9
OX-EYE SUNFLOWER (HELOPSIS HELIANTHOIDES)	5	80	60	0.20	1.5
FORMULA W WETLAND CONSERVATION MIX: TALL FESCUE (FESTUCA ARUNDINACEA VAR. KENTUCKY 31)	30	96	85	0.10	15.0 TOTAL 4.5
BIRDSFOOT TREFLOIL (LOTUS CORNICULATUS)	10	92	80	0.10	1.5
REDDTOP (ARGOSTIS ALBA)	10	92	80	0.20	1.5
VIRGINIA WILD RYE (ELYMUS VIRGINICUS)	24	85	70	0.20	3.6
TOGA DEERTONGUE (PANICUM CLADESTINUM)	14	95	80	0.20	2.1
FOX SEDGE (CAREX VULPINOIDES)	12	85	60	0.20	1.8

* INCLUDING HARSEED AND NORMAL SEEDLINGS.

TEMPORARY AND PERMANENT STABILIZATION SPECIFICATIONS

MULCH TYPE	PER ACRE	PER 1,000 SF	PER 1,000 SY	NOTES
APPLICATION RATE FOR SLOPES LESS THAN 3:1				
STRAW	3 TONS	140 LB	1,240 LB	EITHER WHEAT OR OAT STRAW, FREE OF WEEDS, NOT CHOPPED OR FINELY BROKEN
HAY	3 TONS	140 LB	1,240 LB	TIMOTHY, MIXED CLOVER AND TIMOTHY OR OTHER NATIVE FORAGE GRASSES
WOOD CHIPS	4-6 TONS	185-275 LB	1,650-2,500 LB	MAY PREVENT GERMINATION OF GRASSES AND LEGUMES
HYDROMULCH	1 TON	47 LB	415 LB	SEE NOTES.
SLOPES 3:1 AND GREATER				
EROSION CONTROL MULCH BLANKET	APPLY BLANKET AND ANCHOR PER MANUFACTURERS' INSTRUCTIONS.		NORTH AMERICAN GREEN S150 (3:1) AND SC150 (2:1) OR APPROVED EQUALS	

- NOTES:
- SHREDDED PAPER HYDROMULCH SHOULD NOT BE USED ON SLOPES STEEPER THAN 5X.
 - WOOD FIBER HYDROMULCH MAY BE APPLIED ON STEEPER SLOPES PROVIDED A TACKIFIER IS USED.
 - THE APPLICATION RATE FOR ANY HYDROMULCH SHOULD BE 2,000 LB/ACRE AT A MINIMUM.

FORMULA AND SPECIES	WEIGHT	MINIMUM %			SEEDING RATE PER 1000 SQ. YD. (LBS.)
		PURITY	GERMINATION	WEED SEED	
FORMULA B MIX: PERENNIAL RYEGRASS MIXTURE (LOLIUM PERENNE) - A COMBINATION OF IMPROVED CERTIFIED VARIETIES WITH NO ONE VARIETY EXCEEDING 50% OF THE TOTAL RYEGRASS COMPONENT.	20	97	90	0.10	44.0 TOTAL 8.5
CREeping RED FESCUE OR CHEWINGS FESCUE (FESTUCA RUBRA OR SSP COMMUTATE) (IMPROVED AND CERTIFIED)	30	97	85	0.10	12.5
KENTUCKY BLUEGRASS MIXTURE (POA PRATENSIS) - A COMBINATION OF IMPROVED CERTIFIED VARIETIES WITH NO ONE VARIETY EXCEEDING 50% OF THE TOTAL BLUEGRASS COMPONENT.	45	97	80	0.15	21.0
ANNUAL RYEGRASS (LOLIUM MULTIFLORUM)	5	95	90	0.10	2.0
FORMULA E: ANNUAL RYEGRASS (LOLIUM MULTIFLORUM)	100	95	90	0.10	10.0 TOTAL 10.0
FORMULA N CONSERVATION MIX: HARD FESCUE MIXTURE (FESTUCA LONGIFLOIA) - A COMBINATION OF IMPROVED CERTIFIED VARIETIES WITH NO ONE VARIETY EXCEEDING 50% OF THE TOTAL HARD FESCUE COMPONENT.	30	97	85	0.10	30.0 TOTAL 9.0
CREeping RED FESCUE (FESTUCA RUBRA) (IMPROVED AND CERTIFIED)	30	97	85	0.10	9.0
LITTLE BLUESTEM (ANDROPOGON SCOPARIUS)	4	80	70	0.20	1.2
CANADA WILD RYE (ELYMUS CANADEIS)	6	85	70	0.20	1.8
VIRGINIA WILD RYE (ELYMUS VIRGINICUS)	4	85	70	0.20	1.2
INDIANGRASS (SORGHASRUM NUTANS)	3	85	70	0.20	0.9
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NEW ENGLAND ASTER (SYMPHYOTRICHUM NOVAE-ANGLIE)	3	80	50	0.20	0.9
OX-EYE SUNFLOWER (HELOPSIS HELIANTHOIDES)	5	80	60	0.20	1.5
FORMULA W WETLAND CONSERVATION MIX: TALL FESCUE (FESTUCA ARUNDINACEA VAR. KENTUCKY 31)	30	96	85	0.10	15.0 TOTAL 4.5
BIRDSFOOT TREFLOIL (LOTUS CORNICULATUS)	10	92	80	0.10	1.5
REDDTOP (ARGOSTIS ALBA)	10	92	80	0.20	1.5
VIRGINIA WILD RYE (ELYMUS VIRGINICUS)	24	85	70	0.20	3.6
TOGA DEERTONGUE (PANICUM CLADESTINUM)	14	95	80	0.20	2.1
FOX SEDGE (CAREX VULPINOIDES)	12	85	60	0.20	1.8

* INCLUDING HARSEED AND NORMAL SEEDLINGS.

SEEDING & MULCHING SPECIFICATIONS

MULCH TYPE	PER ACRE	PER 1,000 SF	PER 1,000 SY	NOTES
APPLICATION RATE FOR SLOPES LESS THAN 3:1				
STRAW	3 TONS	140 LB	1,240 LB	EITHER WHEAT OR OAT STRAW, FREE OF WEEDS, NOT CHOPPED OR FINELY BROKEN
HAY	3 TONS	140 LB	1,240 LB	TIMOTHY, MIXED CLOVER AND TIMOTHY OR OTHER NATIVE FORAGE GRASSES
WOOD CHIPS	4-6 TONS	185-275 LB	1,650-2,500 LB	MAY PREVENT GERMINATION OF GRASSES AND LEGUMES
HYDROMULCH	1 TON	47 LB	415 LB	SEE NOTES.
SLOPES 3:1 AND GREATER				
EROSION CONTROL MULCH BLANKET	APPLY BLANKET AND ANCHOR PER MANUFACTURERS' INSTRUCTIONS.		NORTH AMERICAN GREEN S150 (3:1) AND SC150 (2:1) OR APPROVED EQUALS	

- NOTES:
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 - WOOD FIBER HYDROMULCH MAY BE APPLIED ON STEEPER SLOPES PROVIDED A TACKIFIER IS USED.
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FORMULA AND SPECIES	WEIGHT	MINIMUM %			SEEDING RATE PER 1000 SQ. YD. (LBS.)
		PURITY	GERMINATION	WEED SEED	
FORMULA B MIX: PERENNIAL RYEGRASS MIXTURE (LOLIUM PERENNE) - A COMBINATION OF IMPROVED CERTIFIED VARIETIES WITH NO ONE VARIETY EXCEEDING 50% OF THE TOTAL RYEGRASS COMPONENT.	20	97	90	0.10	44.0 TOTAL 8.5
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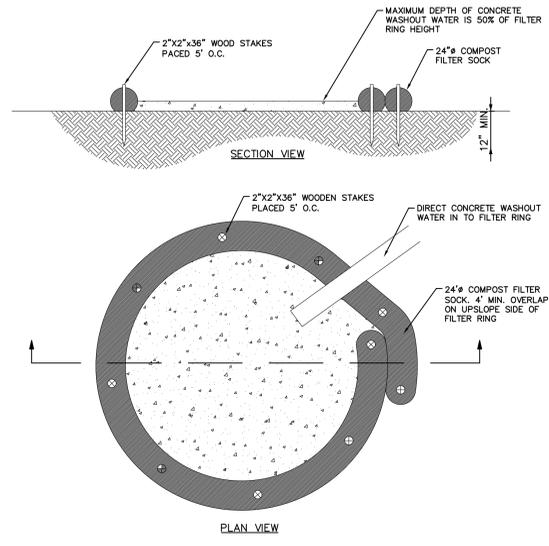
* INCLUDING HARSEED AND NORMAL SEEDLINGS.

TEMPORARY AND PERMANENT STABILIZATION SPECIFICATIONS

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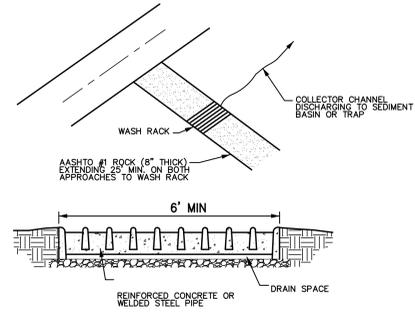
FORMULA AND SPECIES	WEIGHT	MINIMUM %			SEEDING RATE PER 1000 SQ. YD. (LBS.)
		PURITY	GERMINATION	WEED SEED	
FORMULA B MIX: PERENNIAL RYEGRASS MIXTURE (LOLIUM PERENNE) - A COMBINATION OF IMPROVED CERTIFIED VARIETIES WITH NO ONE VARIETY EXCEEDING 50% OF THE TOTAL RYEGRASS COMPONENT.	20	97	90	0.10	44.0 TOTAL 8.5
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ANNUAL RYEGRASS (LOLIUM MULTIFLORUM)	5	95	90	0.10	2.0
FORMULA E: ANNUAL RYEGRASS (LOLIUM MULTIFLORUM)	100	95	90	0.10	10.0 TOTAL 10.0
FORMULA N CONSERVATION MIX:<					



COMPOST SOCK WASHOUT DETAIL
NOT TO SCALE

CONCRETE WASHOUT NOTES

1. PREFABRICATED WASHOUT CONTAINERS MAY BE USED AS A SUITABLE ALTERNATIVE. CARE SHOULD BE TAKEN TO ENSURE THAT THE CONTAINERS ARE INTENDED BY THE MANUFACTURER FOR USE AS CONCRETE WASHOUT BMPs, THAT THEY ARE WATERTIGHT, AND APPROPRIATELY SIZED. ACCUMULATED MATERIALS MUST BE PROPERLY DISPOSED OF WHEN THEY REACH THE CLEANOUT LEVEL.
2. INSPECT WASHOUT FACILITIES DAILY. DEACTIVATE AND REPAIR OR REPLACE DAMAGE OR LEAKING WASHOUTS IMMEDIATELY.
3. ACCUMULATED MATERIALS SHOULD BE REMOVED WHEN THEY REACH 75% CAPACITY.
5. PLASTIC LINERS SHOULD BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.
6. COMPOST SOCKS MAY BE STACKED AND STAKED SO AS TO FORM A TRIANGULAR CROSS SECTION. SEE COMPOST SOCK SEDIMENT TRAP DETAIL.



ROCK CONSTRUCTION ACCESS WITH WASH RACK
NOT TO SCALE

NOTES:

ROCK CONSTRUCTION ENTRANCES SHALL BE CLEANED AND REDRESSED WHEN VOIDS BECOME CHOKED WITH MUD OR SEDIMENT.

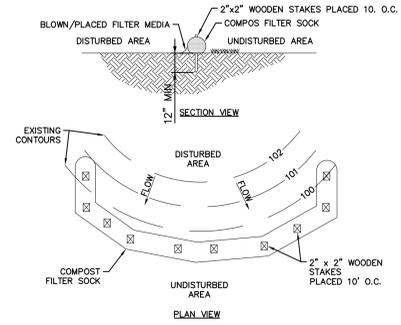
GEOTEXTILE FABRIC SHALL BE INSTALLED UNDER ALL ROCK CONSTRUCTION ENTRANCES TO KEEP SOIL FROM PUMPING AND PENETRATING INTO THE STRUCTURE.

WASH RACK SHALL BE 20 FEET (MIN.) WIDE OR TOTAL WIDTH OF ACCESS.

WASH RACK SHALL BE DESIGNED AND CONSTRUCTED TO ACCOMMODATE ANTICIPATED CONSTRUCTION VEHICULAR TRAFFIC.

A WATER SUPPLY SHALL BE MADE AVAILABLE TO WASH THE WHEELS OF ALL VEHICLES EXITING THE SITE.

MAINTENANCE- ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. DRAIN SPACE UNDER WASH RACK SHALL BE KEPT OPEN AT ALL TIMES. DAMAGE TO THE WASH RACK SHALL BE REPAIRED PRIOR TO FURTHER USE OF THE RACK. ALL SEDIMENT DEPOSITED ON ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.



COMPOST FILTER SOCK
NOT TO SCALE

- NOTES:
1. SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2.
 2. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 1 FEET UP SLOPE AT 45 DEGREES TO THE MAIN SOCK ALIGNMENT (FIGURE 4.1). MAXIMUM SLOPE LENGTH ABOVE ANY SOCK SHALL NOT EXCEED THAT SHOWN ON FIGURE 4.2. STAKES MAY BE INSTALLED IMMEDIATELY DOWNSLOPE OF THE SOCK IF SO SPECIFIED BY THE MANUFACTURER.
 3. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
 4. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVEGROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
 5. SOCKS SHALL BE INSPECTED DAILY AND AFTER EACH RUNOFF EVENT GREATER THAN 0.25 INCHES DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF WITHIN 24 HOURS OF INSPECTION.
 6. BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
 7. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

COMPOST SOCK FABRIC MINIMUM SPECIFICATIONS					
MATERIAL TYPE	3 MIL HDPE	5 MIL HDPE	5 MIL HDPE	MULTI-FILAMENT POLYPROPYLENE (MFPF)	HEAVY DUTY MULTI-FILAMENT POLYPROPYLENE (HDMFPF)
MATERIAL CHARACTERISTICS	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE	BIO-DEGRADABLE	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE
SOCK DIAMETERS	12" 18"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"
MESH OPENING	3/8"	3/8"	3/8"	3/8"	1/8"
TENSILE STRENGTH		26 PSI	26 PSI	44 PSI	202 PSI
ULTRAVIOLET STABILITY % ORIGINAL STRENGTH (ASTM-G-155)	23% AT 1000 HR	23% AT 1000 HR		100% AT 1000 HR	100% AT 1000 HR
MINIMUM FUNCTIONAL LONGEVITY	6 MONTHS	9 MONTHS	6 MONTHS	1 YEAR	2 YEARS

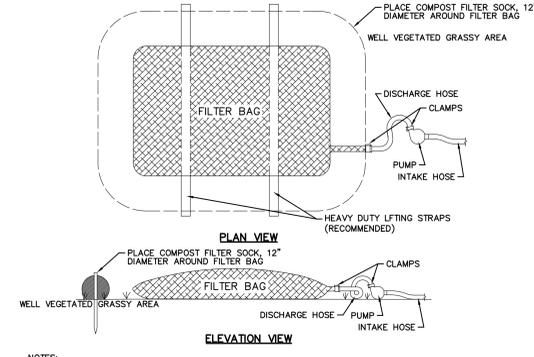
TWO-PLY SYSTEMS	
INNER CONTAINMENT NETTING	HDPE BIAXIAL NET
	CONTINUOUSLY WOUND
	FUSION-WELDED JUNCTURES
OUTER FILTRATION MESH	3/4" X 3/4" MAX APERTURE SIZE
	COMPOSITE POLYPROPYLENE FABRIC (WOVEN LAYER AND NON-WOVEN FLEECE MECHANICALLY FUSED VIA NEEDLE PUNCH)
	3/16" MAX APERTURE SIZE

SOCK FABRICS COMPOSED OF BURLAP MAY BE USED ON PROJECTS LASTING 6 MONTHS OR LESS.

COMPOST SHOULD BE A WELL DECOMPOSED, WEED-FREE ORGANIC MATTER DERIVED FROM AGRICULTURE, FOOD, STUMP GRINDINGS, AND YARD OR WOOD/BARK ORGANIC MATTER SOURCES. THE COMPOST SHOULD BE AEROBICALLY COMPOSTED. THE COMPOST SHOULD POSSESS NO OBJECTIONABLE ODORS AND SHOULD BE SEASONABLY FREE (<1% BY DRY WEIGHT) OF MAN-MADE FOREIGN MATTER. THE COMPOST PRODUCT SHOULD NOT RESEMBLE THE RAW MATERIAL FROM WHICH IT WAS DERIVED. WOOD AND BARK CHIPS, GROUND CONSTRUCTION DEBRIS OR REPROCESSED WOOD PRODUCTS ARE NOT ACCEPTABLE AS THE ORGANIC COMPONENT OF THE MIX.

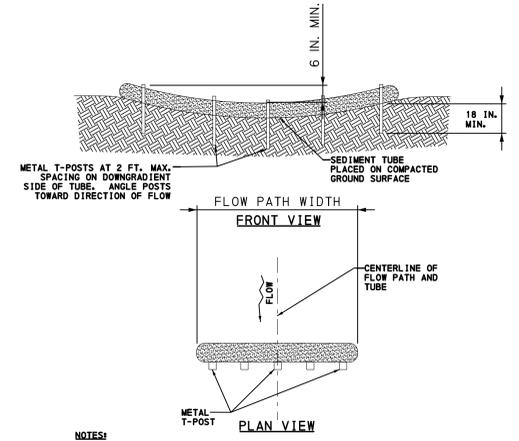
THE PHYSICAL PARAMETERS OF THE COMPOST SHOULD COMPLY WITH THE STANDARDS AS SHOWN IN THE TABLE BELOW. THE STANDARDS CONTAINED IN THE PENNDOT PUBLICATION 408 ARE AN ACCEPTABLE ALTERNATIVE.

COMPOST STANDARDS	
ORGANIC MATTER CONTENT	25% - 100% (DRY WEIGHT BASIS)
ORGANIC PORTION	FIBROUS AND ELONGATED
pH	5.5 - 8.5
MOISTURE CONTENT	30% - 60%
PARTICLE SIZE	30% - 50% PASS THROUGH 3/8" SCREEN
SOLUBLE SALT CONCENTRATION	5.0 DS/M (MMHOS/CM) MAXIMUM



- NOTES:
1. LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH DOUBLE STITCHES. AT THE SEAMS, THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN LOW MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:
- | PROPERTY | TEST METHOD | MINIMUM STANDARD |
|--------------------------|-------------|------------------|
| AVG. WIDE WIDTH STRENGTH | ASTM D-4884 | 60 LB/IN |
| GRAB TENSILE | ASTM D-4632 | 205 LB |
| PUNCTURE | ASTM D-4833 | 110 LB |
| MULLEN BURST | ASTM D-3786 | 350 PSI |
| UV RESISTANCE | ASTM D-4355 | 70% |
| ADS % RETAINED | ASTM D-4751 | 80 SIEVE |
2. A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 3/4 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.
 3. BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS WHERE THIS IS NOT POSSIBLE A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILL TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5% FOR SLOPES EXCEEDING 5% CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.
 4. NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BEAM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HO OR FV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.
 5. THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.
 6. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.
 7. FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

PUMPED WATER FILTER BAG
NOT TO SCALE



- NOTES:
- THIS DETAIL APPLICABLE TO FLOW PATHS WITH WIDTHS LESS THAN OR EQUAL TO ONE TUBE LENGTH.
- METAL T-POSTS SHALL BE INSTALLED AT THE CENTER AND AT EACH END OF THE TUBE. ADDITIONAL T-POSTS SHALL BE INSTALLED AS NEEDED TO MEET THE MAXIMUM 2-FOOT SPACING.
- SEDIMENT TUBES SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT.
- ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE HEIGHT OF THE TUBE AND DISPOSED AS DIRECTED ELSEWHERE IN THE E&S PLAN.
- DAMAGED TUBES SHALL BE REPAIRED OR REPLACED WITHIN 24 HOURS OF INSPECTION. A SUPPLY OF TUBES SHALL BE KEPT ON SITE FOR THIS PURPOSE.

WEIGHTED SEDIMENT FILTER TUBE INSTALLATION
CONCENTRATED FLOW AREA DETAIL
NOT TO SCALE

NOT APPROVED FOR CONSTRUCTION

RECORD REVISIONS



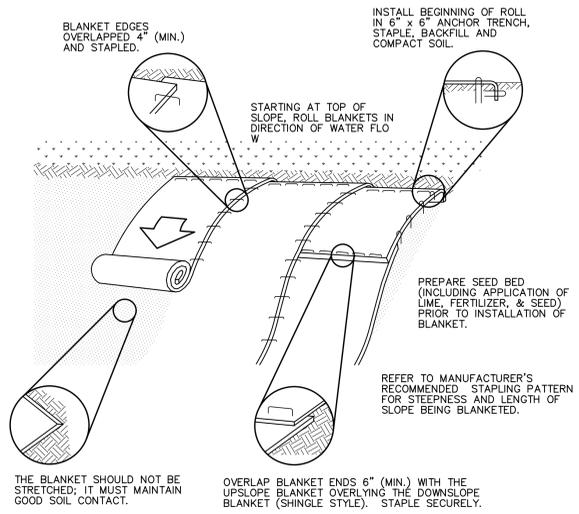
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No. DGS C-0251-0095 PHASE 1-1

REGIONAL TRAFFIC MANAGEMENT CENTER AND PARKING STRUCTURE
DEPARTMENT OF TRANSPORTATION
King of Prussia, Upper Merion Township
Montgomery County, PA

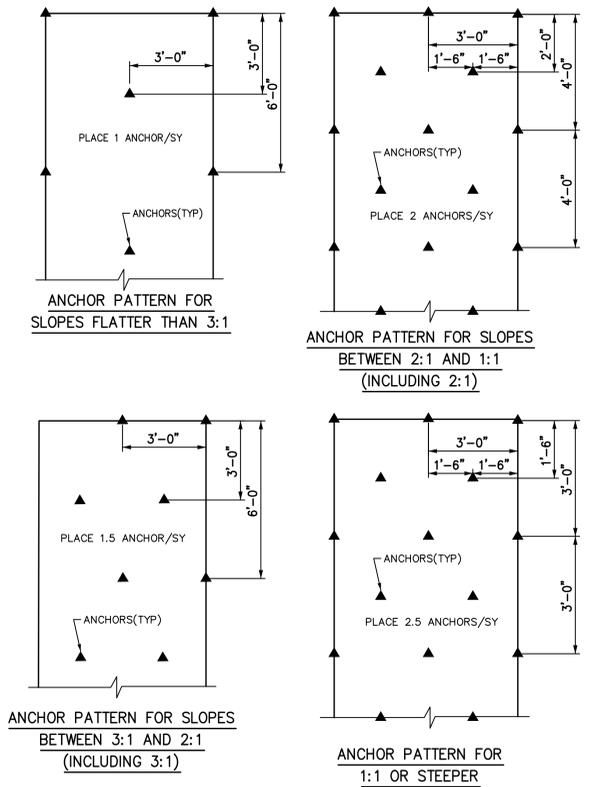
EROSION & SEDIMENTATION POLLUTION CONTROL DETAILS
DRAWN BY: RMD
DATE: 06/21/2020
CHECKED BY: CGB
SCALE: NO SCALE

C-903

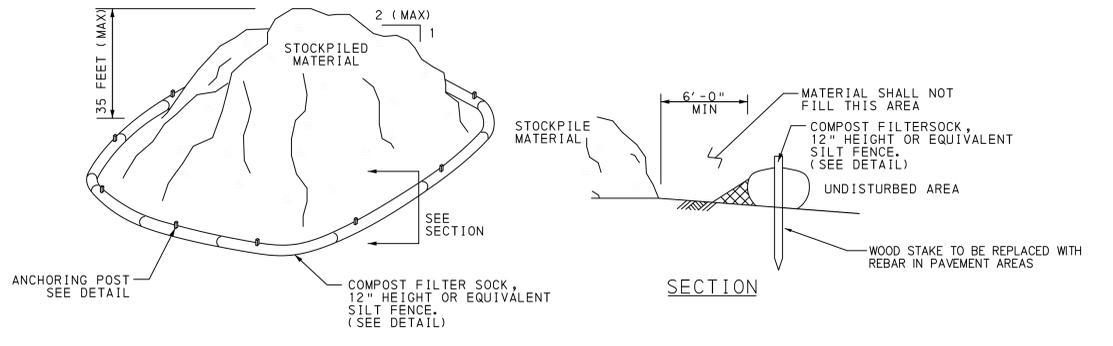


EROSION CONTROL BLANKET INSTALLATION
NOT TO SCALE

- NOTE:
- SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET.
 - PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.
 - SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.
 - BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.
 - THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 - BLANKETED AREAS SHALL BE INSPECTED DAILY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.



EROSION CONTROL BLANKET STAPLE PATTERNS
NOT TO SCALE



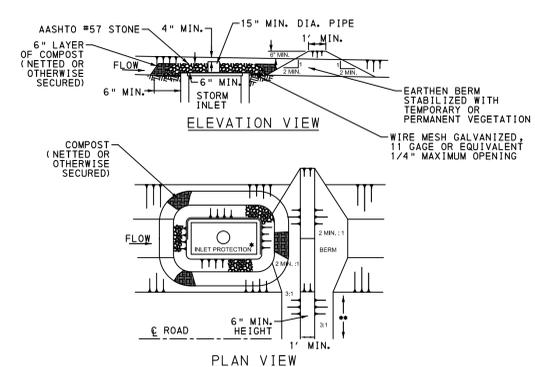
STOCKPILE CONTROL DETAIL
NOT TO SCALE

- NOTE:
- THE CONTRACTOR WILL BE REQUIRED TO SUBMIT AN E&S PLAN TO THE CONSERVATION DISTRICT DESIGNATING SPOIL STORAGE AREAS AND RELATED INFORMATION.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER CONSTRUCTION, STABILIZATION, AND MAINTENANCE OF ALL EROSION AND SEDIMENTATION CONTROLS AND RELATED ITEMS INCLUDED WITHIN THE PROJECT.

INLET PROTECTION SCHEDULE

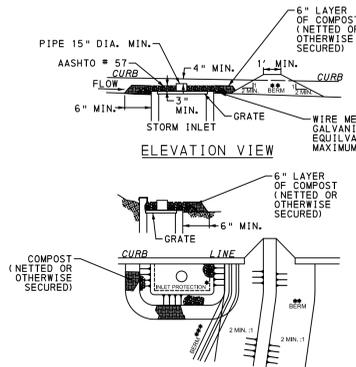
INLET ID	DRAINAGE AREA (ACRES)	E&S INLET PROTECTION
EXIN1-1	0.80	STONE BERM - TYPE C
EXIN1-2	0.23	FILTER BAG - TYPE C
EXIN1-3	0.30	FILTER BAG - TYPE C
EXIN1-4	0.58	STONE BERM - TYPE M
IN1-6	0.21	FILTER BAG - TYPE C
IN1-7	0.25	FILTER BAG - TYPE C
IN1-8	0.06	FILTER BAG - TYPE C
IN1-9	0.08	FILTER BAG - TYPE M
IN1-10	0.09	FILTER BAG - TYPE C
IN1-11	0.71	STONE BERM - TYPE M
IN2-2 & EXIN2-2	0.40	FILTER BAG - TYPE C

- NOTES:
- ALL EXISTING INLETS, EXCLUDING EXIN1-1, EXIN1-4, AND IN1-11 WILL REQUIRE FILTER BAG INLET PROTECTION DUE TO DRAINAGE AREAS LESS THAN 0.5 ACRE.
 - STONE BERM INLET PROTECTION CAN BE REPLACED WITH INLET FILTER BAGS ONCE ADJACENT DRAINAGE AREAS ARE PAVED AND STABILIZED WITH THE ASSUMPTION THAT SEDIMENT RUNOFF WOULD BE DRASTICALLY REDUCED.



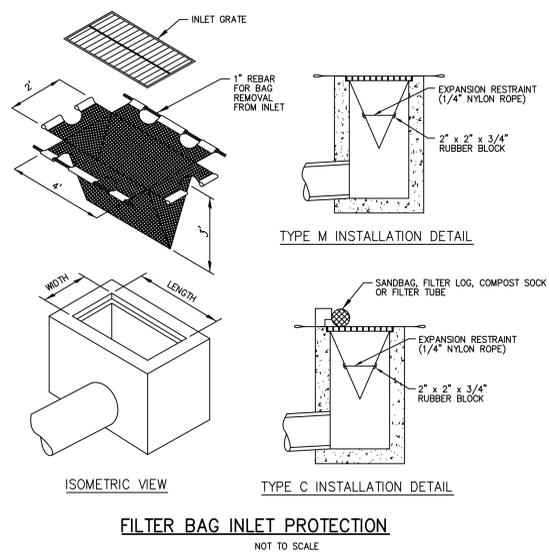
STONE INLET PROTECTION AND BERM-TYPE M INLET
NOT TO SCALE

- *STONE INLET PROTECTION IS NOT REQUIRED FOR INLETS TRIBUTARY TO SEDIMENT BASINS OR SEDIMENT TRAPS. BERMS ARE REQUIRED FOR ALL INSTALLATIONS NOT LOCATED AT LOW POINTS.
- **EARTHEN BERMS IN ROADWAYS SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR SHALL REMAIN PERMANENTLY.



STONE INLET PROTECTION AND BERM-TYPE C INLET
NOT TO SCALE

- *STONE INLET PROTECTION IS NOT REQUIRED FOR INLETS TRIBUTARY TO SEDIMENT BASINS OR SEDIMENT TRAPS. BERMS ARE REQUIRED FOR ALL INSTALLATIONS NOT LOCATED AT LOW POINTS.
- **EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED.
- ***6" MIN. HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT.



- NOTES:
- MAXIMUM DRAINAGE AREA = 1/2 ACRE.
 - INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.
 - ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT.
 - AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS, A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.
 - INLET FILTER BAGS SHALL BE INSPECTED ON A DAILY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.
 - DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

EROSION AND SEDIMENTATION POLLUTION CONTROL PLAN

NOT APPROVED FOR CONSTRUCTION

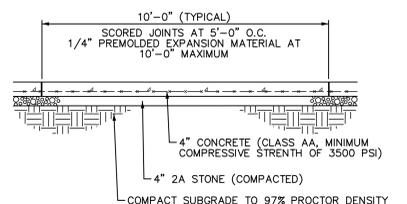
RECORD REVISIONS

benesch
Alfred Benesch & Company
250 Catronia Road, Suite 150
Allentown, Pennsylvania 18104
610-439-7056

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

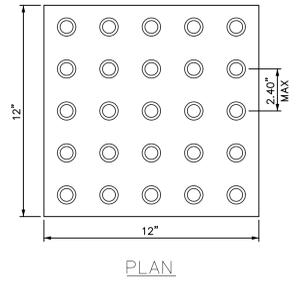
D.G.S. PROJECT No.
DGS C-0251-0095 PHASE 1-1

VERIFY SCALE BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 1 IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY	REGIONAL TRAFFIC MANAGEMENT CENTER AND PARKING STRUCTURE DEPARTMENT OF TRANSPORTATION King of Prussia, Upper Merion Township Montgomery County, PA	
	EROSION & SEDIMENTATION POLLUTION CONTROL DETAILS	
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	DRAWN BY: RMD CHECKED BY: CGB	DATE: 06/21/2020 SCALE: NO SCALE
		DRAWING No. C-904



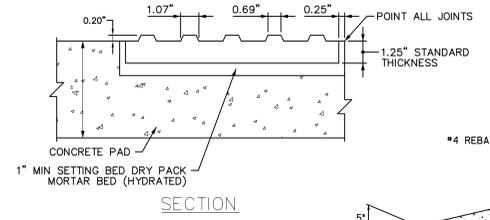
- NOTES:
1. SIDEWALK SHALL SLOPE 1% MINIMUM TOWARD CURB.
 2. PLACE 1/4" EXPANSION MATERIAL AT ALL LOCATIONS ABUTTING EXISTING CONCRETE.
 3. A NONSLIP FINISH SHALL BE PROVIDED ON ALL PEDESTRIAN PAVEMENTS.
 4. ALL EXTERIOR CONCRETE SHALL BE AIR ENTRAINED AND HAVE A MINIMUM COMPRESSIVE STRESS OF 3500 PSI.
 5. ALL SIDEWALKS SHALL CONFIRM TO PENNDOT STANDARDS AND SPECIFICATIONS.

TYPICAL SIDEWALK SECTION



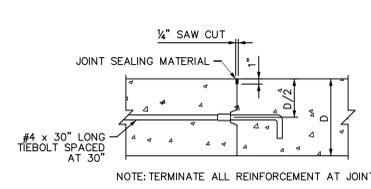
DETECTABLE WARNING SURFACE

NOT TO SCALE



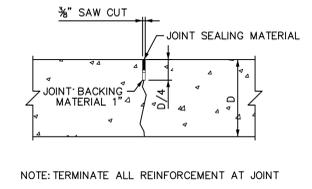
TYPICAL CONCRETE CAR BUMPER

NOT TO SCALE



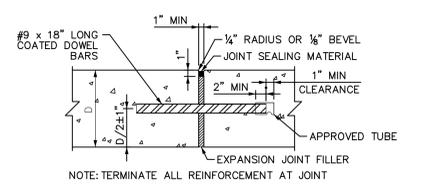
TYPICAL CONSTRUCTION JOINT

NOT TO SCALE



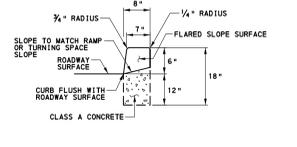
TYPICAL CONTRACTION JOINT

NOT TO SCALE

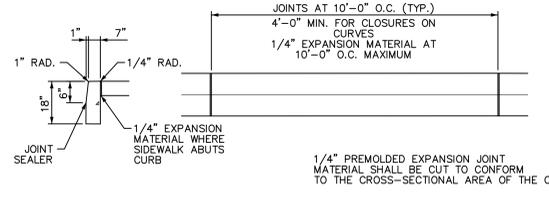


TYPICAL EXPANSION JOINT

NOT TO SCALE

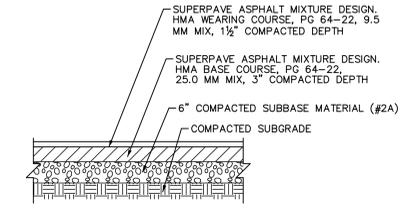


DEPRESSED CURB DETAIL



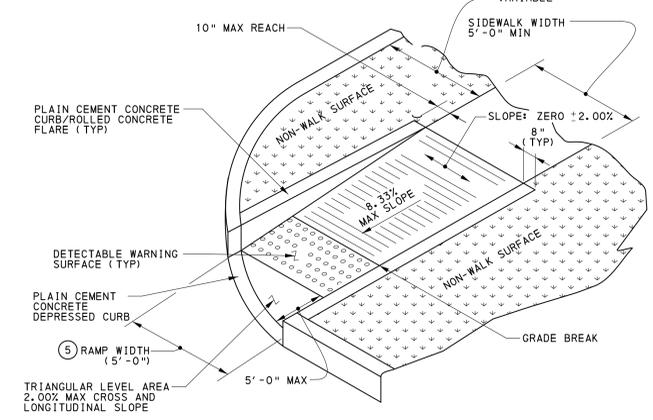
PLAIN CEMENT CONCRETE CURB DETAIL

NOT TO SCALE



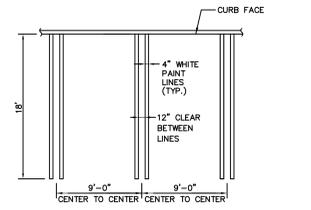
TYPICAL PARKING LOT PAVING SECTION

NOT TO SCALE



DIRECTIONAL CURB RAMP

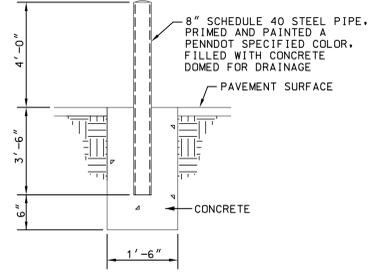
NOT TO SCALE



STANDARD LINE PAINTING

NOT TO SCALE

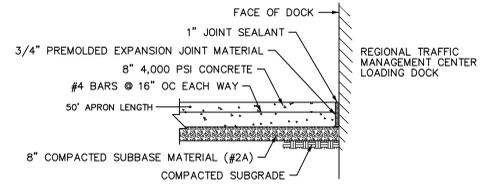
- NOTES:
1. A NONSLIP FINISH SHALL BE PROVIDED ON ALL PEDESTRIAN PAVEMENTS.
 2. ALL EXTERIOR CONCRETE SHALL BE AIR ENTRAINED AND HAVE A MINIMUM COMPRESSIVE STRESS OF 3500 PSI.
 3. ALL SIDEWALKS SHALL CONFIRM TO PENNDOT STANDARDS AND SPECIFICATIONS.
 4. FINISHED CONCRETE CURB SHALL BE CURED BY THE USE OF AN APPROVED WHITE-PIGMENTED CURING COMPOUND.



TYPICAL BOLLARD DETAIL

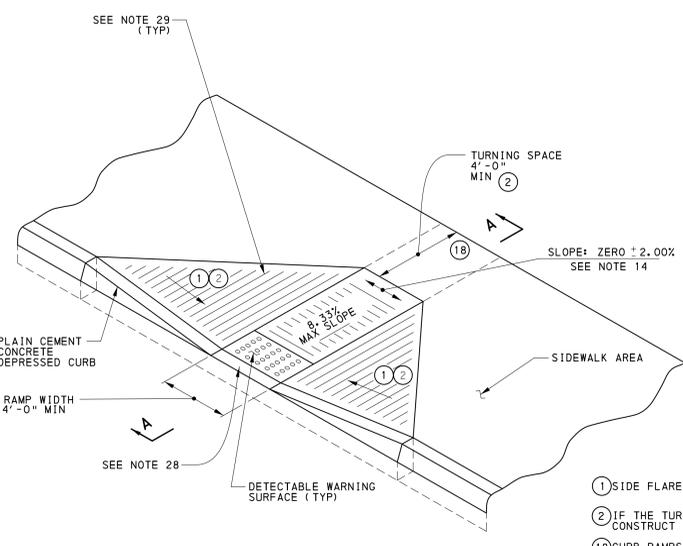
NOT TO SCALE

- NOTES:
1. STANDARD BOLLARD SPACING TO BE 5' CENTER TO CENTER.
 2. BOLLARDS TO BE PLACED MINIMUM OF 1' BEHIND FRONT FACE OF CURBING.
 3. BOLLARD COLOR TO BE SPECIFIED BY PENNDOT PRIOR TO INSTALLATION.



TYPICAL CONCRETE APRON AT LOADING DOCK

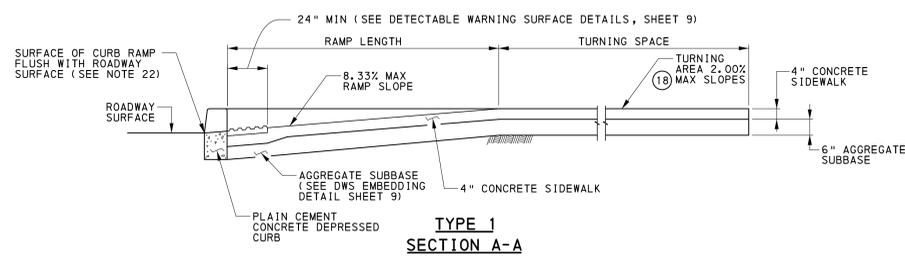
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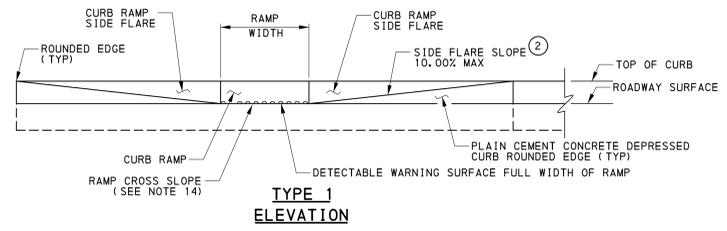
TYPE 1 CURB RAMP

NOT TO SCALE

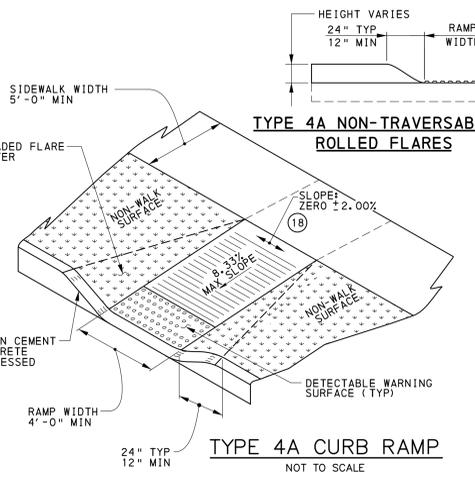
- 1) SIDE FLARES 10.00% MAX SLOPE
- 2) IF THE TURNING SPACE IS INDICATED TO BE LESS THAN 4'-0", CONSTRUCT SIDE FLARES 8.33% MAX SLOPE.
- 18) CURB RAMP REQUIRE A TURNING SPACE WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SEE DETAILS FOR LOCATIONS AND DIMENSIONS.



TYPE 1 SECTION A-A



TYPE 1 ELEVATION



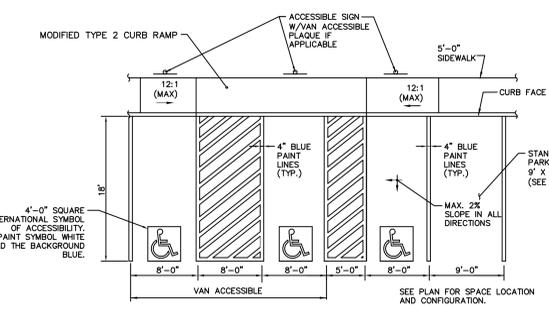
TYPE 4A NON-TRAVERSABLE ROLLED FLARES

NOT TO SCALE



TYPE 4A CURB RAMP

NOT TO SCALE



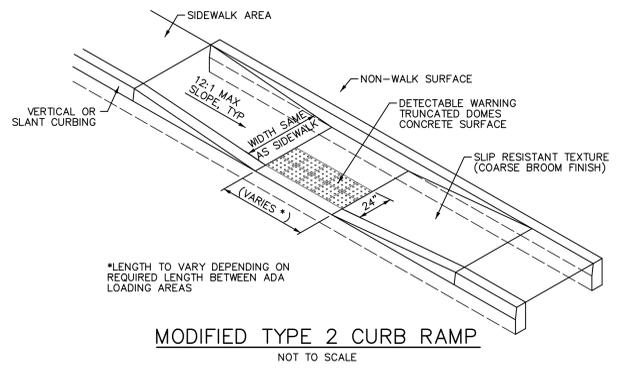
ADA SIGN PLACEMENT DETAIL

NOT TO SCALE

NOTE: FOR SIGN POST INSTALLATION, REFER TO TC 8702B, RECOMMENDED ON JUNE 13, 2013.

*SIGN C ONLY TO BE PLACED FOR ADA PARKING SPACES ADJACENT TO 8' LOADING ZONE

SIGNAGE DATA						
SIGN TYPE	TYPE	ITEM #	QUANTITY	WIDTH	HEIGHT	SF (EA) SF (TOT)
RESERVE PARKING	A	R7-B	6	12"	18"	1.5 9.0
VIOLATION SIGN	B	R7-BB	6	12"	18"	1.5 9.0
VAN ACCESSIBLE	C	R7-BA	2	12"	6"	0.5 0.5



MODIFIED TYPE 2 CURB RAMP

NOT TO SCALE

NOT APPROVED FOR CONSTRUCTION

RECORD REVISIONS



Alfred Benesch & Company
250 Catronia Road, Suite 150
Allentown, Pennsylvania 18104
610-439-7066

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
DGS C-0251-0095 PHASE 1-1

REGIONAL TRAFFIC MANAGEMENT CENTER AND PARKING STRUCTURE
DEPARTMENT OF TRANSPORTATION
King of Prussia, Upper Merion Township
Montgomery County, PA

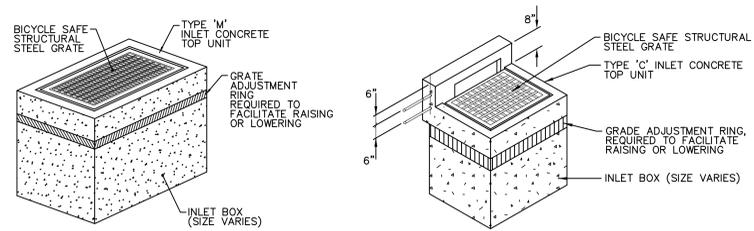
SITE CONSTRUCTION DETAILS

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY: RMD
CHECKED BY: CGB
DATE: 06/21/2020
SCALE: NO SCALE

DRAWING No.
C-1000



CONSTRUCTION NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH PENNDOT PUBLICATION 408, SECTION 605 AND STANDARDS FOR ROADWAY CONSTRUCTION, RC-45M & 46M. CONTRACTOR SHALL VERIFY INLET BOX SIZING BASED ON PIPE SIZES AND ALIGNMENT PRIOR TO ORDERING PRECAST STRUCTURES.
2. NO PIPES SHALL ENTER INLET BOX AT CORNER.
3. PLACE CONTINUOUS GROUT AROUND PIPE PRIOR TO BACKFILLING. (TYP.)
4. SEE PLAN FOR INLET AND BOX TYPE.
5. PROVIDE MANHOLE STEPS IN ALL INLET BOXES OVER 5 FEET IN DEPTH.

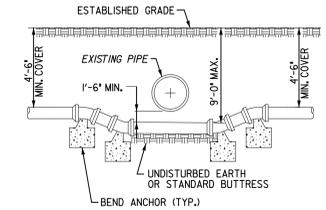
TYPE 'M' INLET
NOT TO SCALE

CONSTRUCTION NOTES:

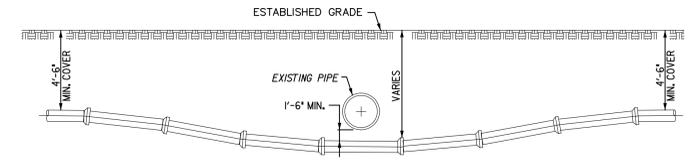
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH PENNDOT PUBLICATION 408, SECTION 605 AND STANDARDS FOR ROADWAY CONSTRUCTION, RC-45M & 46M IN LATEST EDITION. CONTRACTOR SHALL VERIFY INLET BOX SIZING BASED ON PIPE SIZES AND ALIGNMENT PRIOR TO ORDERING PRECAST STRUCTURES.
2. NO PIPES SHALL ENTER INLET BOX AT CORNER.
3. PLACE CONTINUOUS GROUT AROUND PIPE PRIOR TO BACKFILLING. (TYP.)
4. SEE PLAN FOR INLET AND BOX TYPE.
5. PROVIDE MANHOLE STEPS IN ALL INLET BOXES OVER 5 FEET IN DEPTH.

TYPE 'C' INLET
NOT TO SCALE

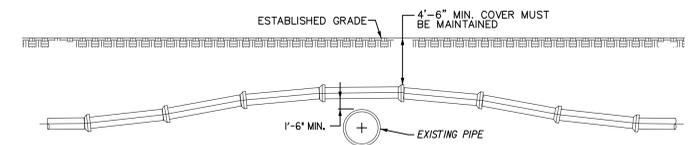
UTILITY CROSSING NOTE:
ALL UTILITY CROSSINGS THAT DO NOT PROVIDE THE MINIMUM 18" VERTICAL SEPARATION MUST BE ENGAGED WITH CONCRETE AS PER CONCRETE ENCASEMENT DETAIL.
DUE TO LOCAL CONDITIONS, THE MAXIMUM FEASIBLE UNDISTURBED TRENCH WALL SEPARATION SHALL BE ATTAINED, IF LESS THAN 18". PARALLEL WATERLINE SHALL BE CONCRETE ENCASED.
CONTRACTOR SHALL MAKE EVERY ATTEMPT TO UTILIZE ALTERNATIVE NO. 2 AND NO. 3. CONTRACTOR SHALL OBTAIN ENGINEERS APPROVAL TO UTILIZE ALTERNATIVE NO. 1.
CONTRACTOR SHALL NOT BE PAID FOR ANY ADDITIONAL VERTICAL BENDS WHEN UTILIZING ALTERNATIVE NO. 1. PRICE SHALL BE INCLUDED IN LINEAL FOOT PRICE FOR USE OF ALTERNATIVE NO. 1.



ALTERNATIVE NO. 1

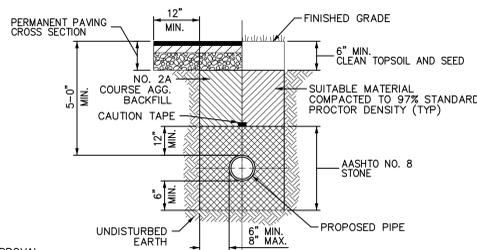


ALTERNATIVE NO. 2



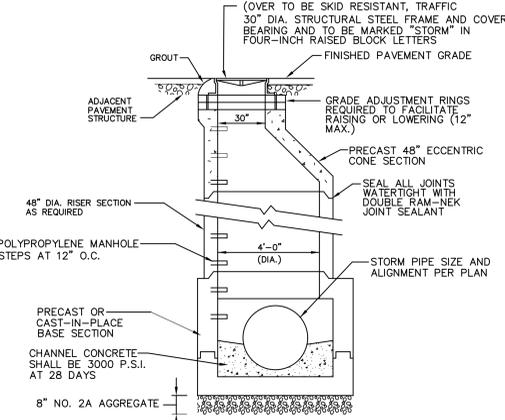
ALTERNATIVE NO. 3

UTILITY CROSSING DETAILS
NOT TO SCALE



SANITARY SEWER TRENCH DETAIL
NOT TO SCALE

- NOTES:**
1. ALL BACKFILL MATERIAL IS SUBJECT TO OWNER APPROVAL.
 2. SUITABLE MATERIAL: MATERIAL CONTAINING NO DEBRIS, ORGANIC MATTER, FROZEN MATERIAL, OR LARGE STONES WITH A DIAMETER GREATER THAN ONE-HALF THE THICKNESS OF THE COMPACTED LAYERS BEING PLACED.
 3. EXCEPT TOPSOIL, ALL BACKFILL MATERIALS MUST BE COMPACTED TO 97% STANDARD PROCTOR DENSITY.



TYPICAL STORM SEWER MANHOLE
NOT TO SCALE

- NOTE:**
1. CONSTRUCT MANHOLE IN ACCORDANCE WITH PENNDOT PUBLICATION 72, RC-39M, LATEST EDITION FOR PRECAST CONCRETE MANHOLES.
 2. ALL MATERIALS AND CONSTRUCTION SHALL MEET THE REQUIREMENTS OF PENNDOT PUBLICATION 408.
 3. USE FLAT TOP MANHOLES WHERE DEPTHS ARE LESS THAN 6' DEEP.

45', 22.5', 11.25' BENDS

PIPE DIA	11.25'	22.5'	45'	90'
24"	11.0	21.5	42.0	77.5
12"	3.0	5.5	10.5	19.5
6" & 8"	1.5	2.5	5.0	9.0
4" OR LESS	1.0	1.0	1.5	2.5

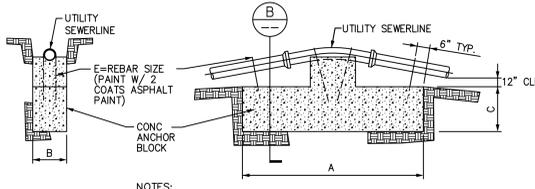
DESIGNED FOR 150 PSI

THRUST BLOCKING FOR HORIZONTAL BENDS
NOT TO SCALE

ANCHOR BLOCK DIMENSIONS

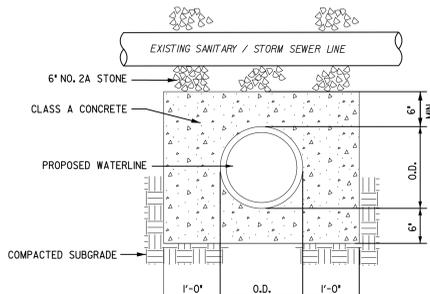
BEND	4" OR LESS	6"	8"	12"
A	11.25'	22.5'	45'	11.25'
B	2.0'	4.0'	8.0'	4.0'
C	1.5'	3.0'	6.0'	3.0'
E	No. 5	No. 5	No. 5	No. 5

DESIGNED FOR 150 PSI



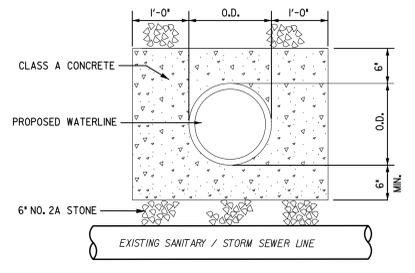
- NOTES:**
- 1.) VERTICAL BEND BUTTRESS SHALL HAVE SAME DIMENSION. ANCHOR STRAPS ARE NOT REQUIRED.
 - 2.) ALL PROPOSED WATERLINE AND FIRE LOOP BENDS TO CONTAIN APPROPRIATE THRUST BLOCKS AND MEGALUG OR APPROVED EQUIVALENT JOINT CONNECTIONS, INCLUDING ANY BENDS BELOW THE BUILDING SLAB.

THRUST BLOCKING FOR VERTICAL BENDS
NOT TO SCALE



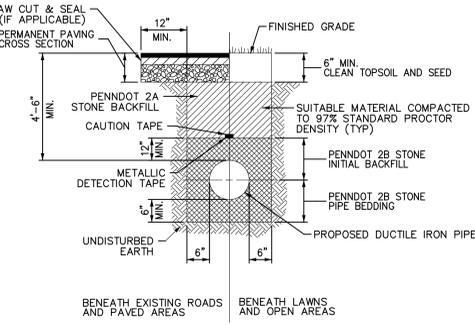
CONCRETE ENCASEMENT FOR WATERLINE WITHIN 18" OF SANITARY / STORM SEWER LINE
NOT TO SCALE

NOTE: WATERMAIN SHALL BE ENCASED FOR A DISTANCE OF 10 FEET LEFT AND RIGHT OF THE CROSSING.



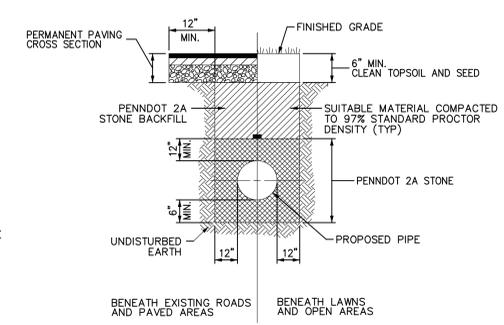
PECO GASLINE SERVICE TRENCH DETAIL
NOT TO SCALE

- NOTES:**
1. ALL BACKFILL MATERIAL IS SUBJECT TO OWNER APPROVAL.
 2. SUITABLE MATERIAL: MATERIAL CONTAINING NO DEBRIS, ORGANIC MATTER, FROZEN MATERIAL, OR LARGE STONES WITH A DIAMETER GREATER THAN ONE-HALF THE THICKNESS OF THE COMPACTED LAYERS BEING PLACED.
 3. EXCEPT TOPSOIL, ALL BACKFILL MATERIALS MUST BE COMPACTED TO 97% STANDARD PROCTOR DENSITY.



WATERLINE/FIRELINE TRENCH DETAIL
NOT TO SCALE

- NOTES:**
1. ALL BACKFILL MATERIAL IS SUBJECT TO OWNER APPROVAL.
 2. SUITABLE MATERIAL: MATERIAL CONTAINING NO DEBRIS, ORGANIC MATTER, FROZEN MATERIAL, OR LARGE STONES WITH A DIAMETER GREATER THAN ONE-HALF THE THICKNESS OF THE COMPACTED LAYERS BEING PLACED.
 3. EXCEPT TOPSOIL, ALL BACKFILL MATERIALS MUST BE COMPACTED TO 97% STANDARD PROCTOR DENSITY.



STORM SEWER DETAIL
NOT TO SCALE

- NOTES:**
1. ALL BACKFILL MATERIAL IS SUBJECT TO OWNER APPROVAL.
 2. SUITABLE MATERIAL: MATERIAL CONTAINING NO DEBRIS, ORGANIC MATTER, FROZEN MATERIAL, OR LARGE STONES WITH A DIAMETER GREATER THAN ONE-HALF THE THICKNESS OF THE COMPACTED LAYERS BEING PLACED.
 3. EXCEPT TOPSOIL, ALL BACKFILL MATERIALS MUST BE COMPACTED TO 97% STANDARD PROCTOR DENSITY.

NOT APPROVED FOR CONSTRUCTION

RECORD REVISIONS



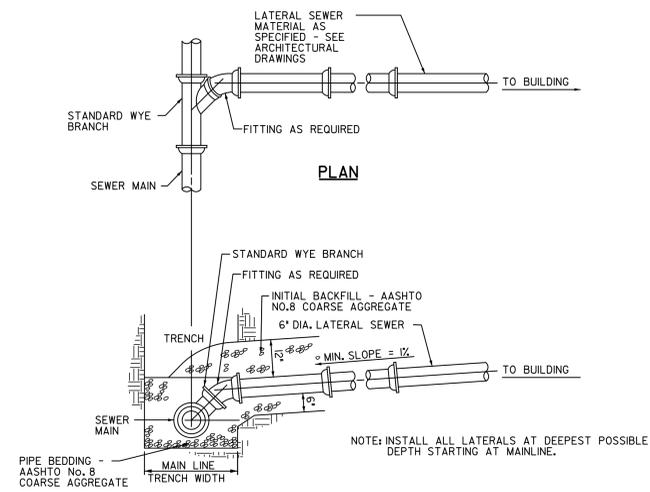
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No. DGS C-0251-0095 PHASE 1-1

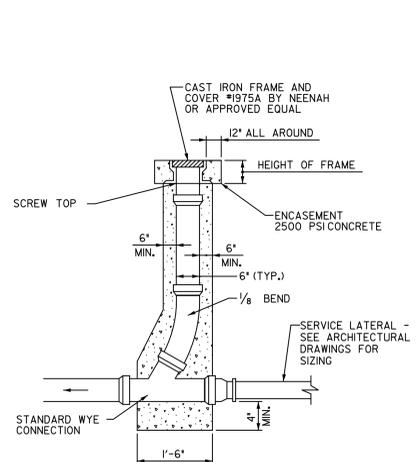
REGIONAL TRAFFIC MANAGEMENT CENTER AND PARKING STRUCTURE
DEPARTMENT OF TRANSPORTATION
King of Prussia, Upper Merion Township
Montgomery County, PA

SITE CONSTRUCTION DETAILS

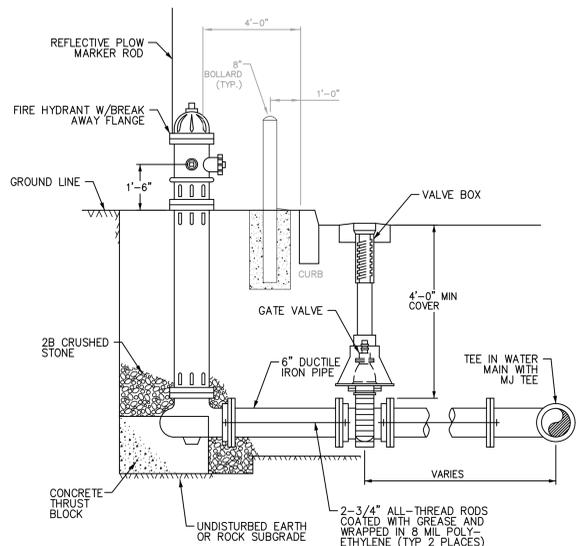
VERIFY SCALE	BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY	
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	DRAWN BY: RMD CHECKED BY: CGB
DATE: 06/21/2020 SCALE: NO SCALE	DRAWING No. C-1001



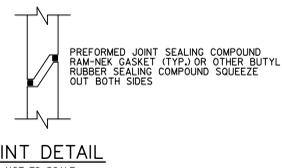
STANDARD LATERAL DETAIL
NOT TO SCALE



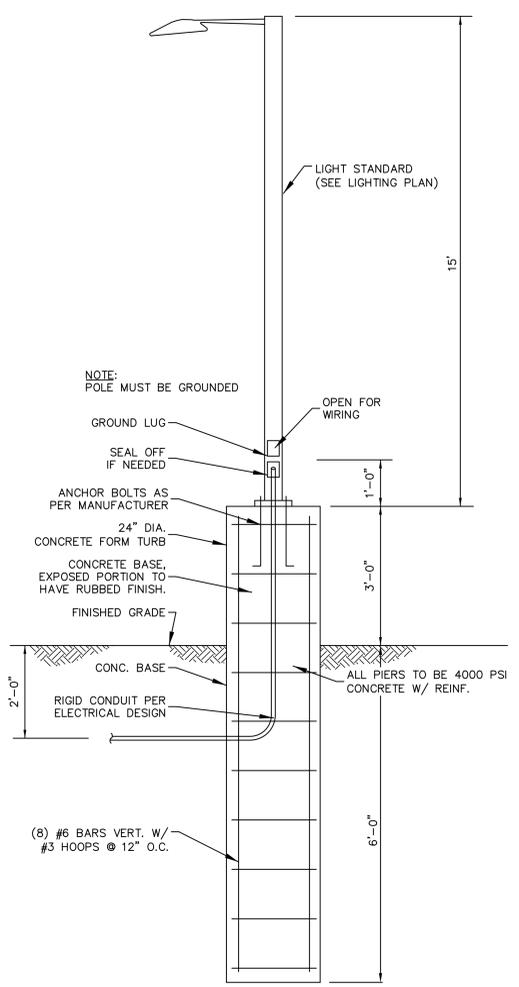
TYPICAL CLEANOUT DETAIL
NOT TO SCALE



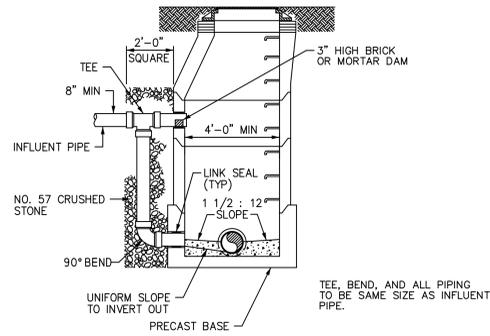
FIRE HYDRANT DETAIL
NOT TO SCALE



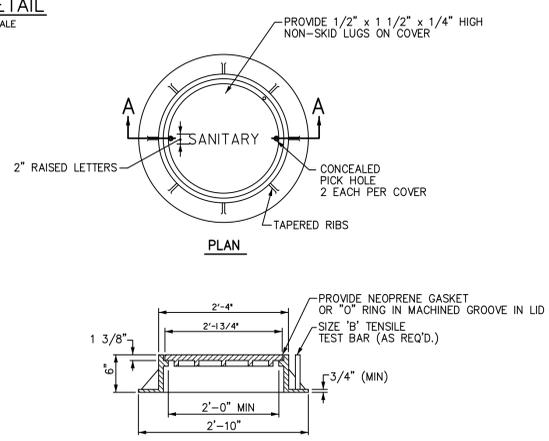
JOINT DETAIL
NOT TO SCALE



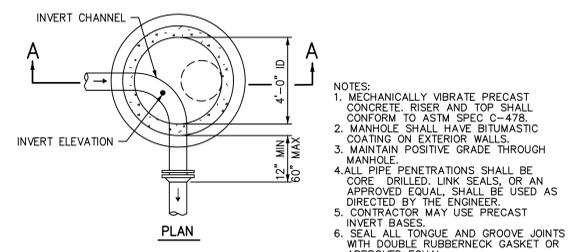
TYPICAL LIGHT STANDARD DETAIL
NOT TO SCALE



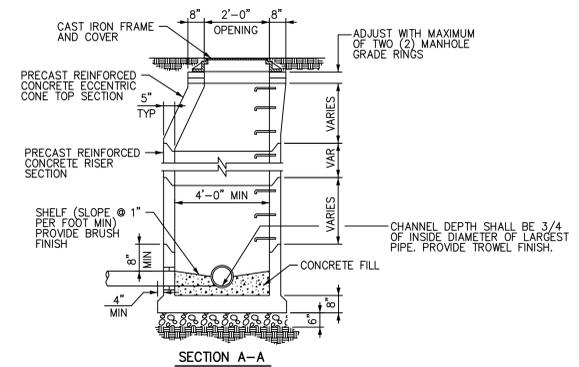
MANHOLE DROP WITH CONNECTION
NOT TO SCALE



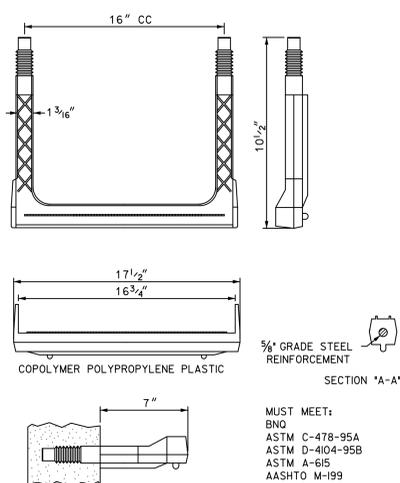
STANDARD MANHOLE FRAME AND COVER
NOT TO SCALE



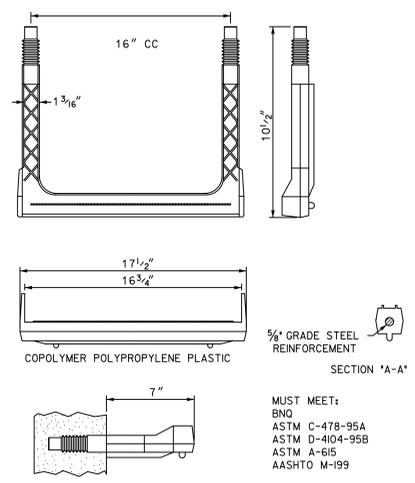
INVERT CHANNEL PLAN



STANDARD PRECAST CONCRETE MANHOLE
NOT TO SCALE



MANHOLE STEP
NOT TO SCALE



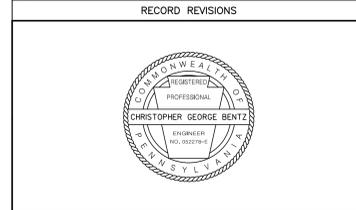
MANHOLE STEP
NOT TO SCALE

- NOTES:
- MECHANICALLY VIBRATE PRECAST CONCRETE. RISER AND TOP SHALL CONFORM TO ASTM SPEC C-478.
 - MANHOLE SHALL HAVE BITUMASTIC COATING ON EXTERIOR WALLS.
 - MAINTAIN POSITIVE GRADE THROUGH MANHOLE.
 - ALL PIPE PENETRATIONS SHALL BE CORE DRILLED, LINK SEALS, OR AN APPROVED EQUAL. SHALL BE USED AS DIRECTED BY THE ENGINEER.
 - CONTRACTOR MAY USE PRECAST INVERT BASES.
 - SEAL ALL TONGUE AND GROOVE JOINTS WITH DOUBLE RUBBERNECK GASKET OR APPROVED EQUAL.

- NOTES:
- ALL MANHOLE FRAME AND COVER DIMENSIONS SHALL BE CONSIDERED MINIMUM, UNLESS OTHERWISE NOTED, WITH THE EXCEPTION OF THE BOLT HOLE AND CORED HOLE DIMENSIONS.
 - ALL MANHOLE FRAMES AND COVERS SHALL BE FOR HEAVY DUTY TRAFFIC.
 - ALL COVERS SHALL BE SELF SEALING AND GASKETED WITH A MACHINE GROOVE AND NEOPRENE COMPRESSION GASKET.

NOT APPROVED FOR CONSTRUCTION

NO.	REVISION



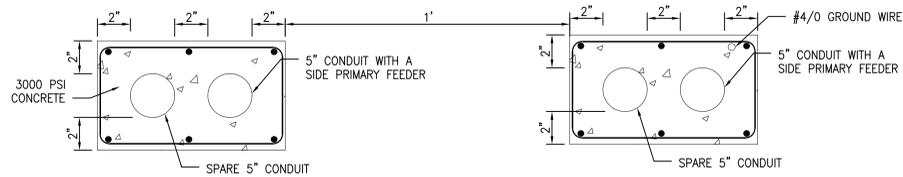
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No. DGS C-0251-0095 PHASE 1-1

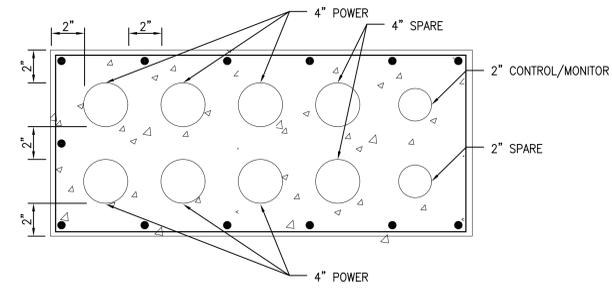
REGIONAL TRAFFIC MANAGEMENT CENTER AND PARKING STRUCTURE
DEPARTMENT OF TRANSPORTATION
King of Prussia, Upper Merion Township
Montgomery County, PA

SITE CONSTRUCTION DETAILS

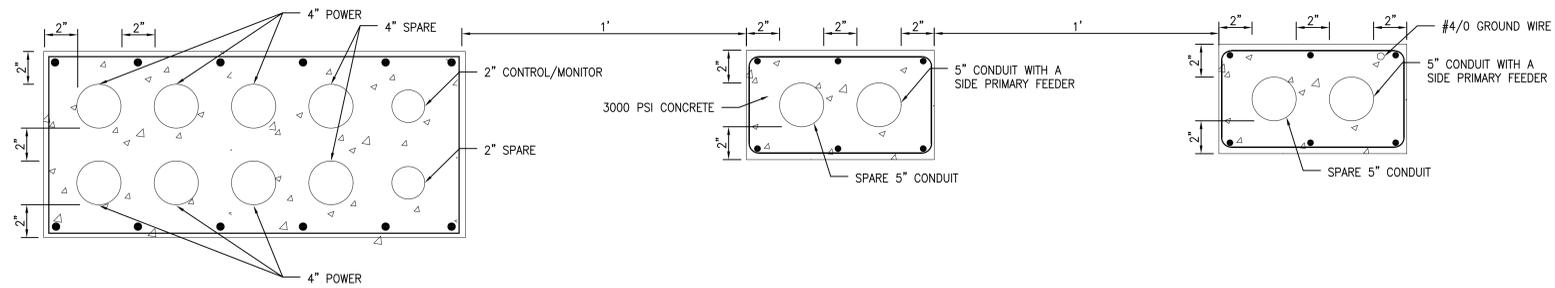
VERIFY SCALE	REGIONAL TRAFFIC MANAGEMENT CENTER AND PARKING STRUCTURE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 1	DEPARTMENT OF TRANSPORTATION King of Prussia, Upper Merion Township Montgomery County, PA
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY	SITE CONSTRUCTION DETAILS
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	DRAWN BY: RMD CHECKED BY: CGB
	DATE: 06/21/2020 SCALE: NO SCALE
	DRAWING No. C-1002



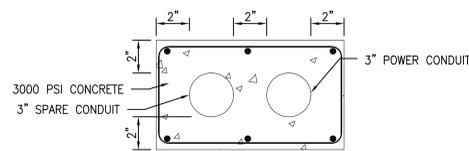
A ELECTRICAL-DUCTBANK
C-1003 NOT TO SCALE



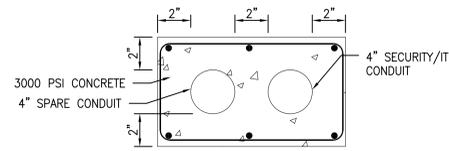
B ELECTRICAL-DUCTBANK
C-1003 NOT TO SCALE



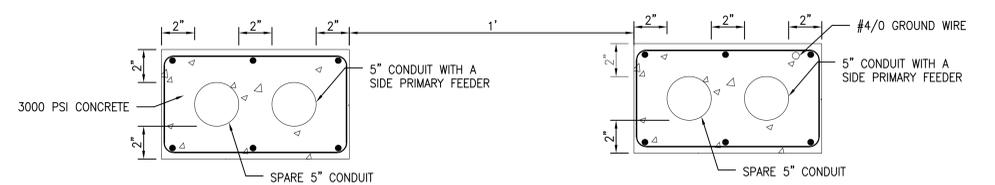
C ELECTRICAL-DUCTBANK
C-1003 NOT TO SCALE



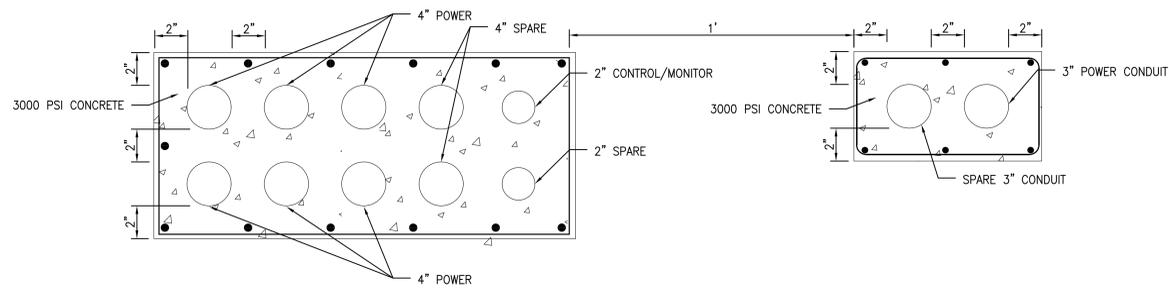
D ELECTRICAL-DUCTBANK
C-1003 NOT TO SCALE



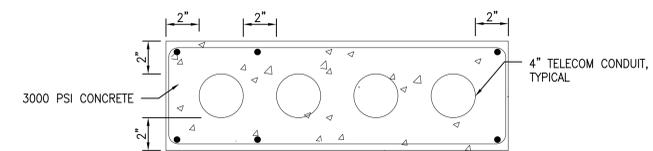
E TELECOM-DUCTBANK
C-1003 NOT TO SCALE



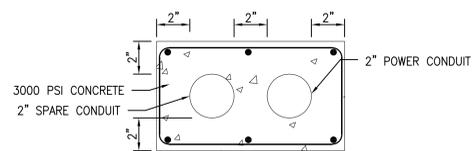
F ELECTRICAL-DUCTBANK
C-1003 NOT TO SCALE



G ELECTRICAL-DUCTBANK
C-1003 NOT TO SCALE



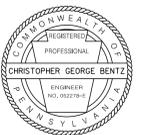
H TELECOM-DUCTBANK
C-1003 NOT TO SCALE



J ELECTRICAL-DUCTBANK
C-1003 NOT TO SCALE

NOT APPROVED FOR CONSTRUCTION

RECORD REVISIONS



Alfred Benesch & Company
250 Catronia Road, Suite 150
Allentown, Pennsylvania 18104
E10-429-7066

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HARRISBURG, PENNSYLVANIA

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REGIONAL TRAFFIC MANAGEMENT
CENTER AND PARKING STRUCTURE
DEPARTMENT OF TRANSPORTATION
King of Prussia, Upper Merion Township
Montgomery County, PA

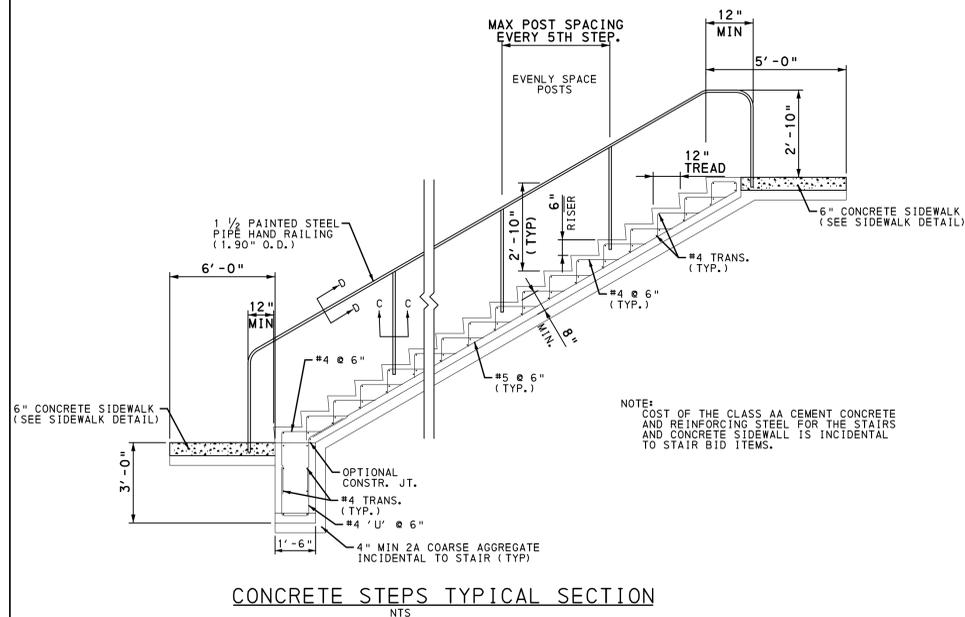
SITE CONSTRUCTION DETAILS

VERIFY SCALE

BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG,
ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY
ALL DIMENSIONS.
VARIANCE FROM CONTRACT
DOCUMENTS NOT PERMITTED
WITHOUT PROFESSIONAL & BUREAU
OF CONSTRUCTION APPROVAL.

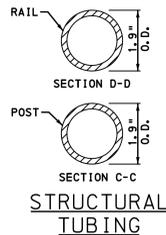
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RMD	06/21/2020	C-1003
CHECKED BY	SCALE	
CGB	NO SCALE	



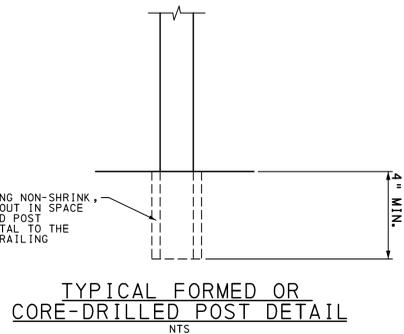
CONCRETE STEPS TYPICAL SECTION
NTS

NOTE: SEE SITE PLANS FOR ELEVATIONS AND DIMENSIONS

NOTES:
COST OF THE CLASS AA CEMENT CONCRETE AND REINFORCING STEEL FOR THE STAIRS AND CONCRETE SIDEWALK IS INCIDENTAL TO STAIR BID ITEMS.



STRUCTURAL TUBING

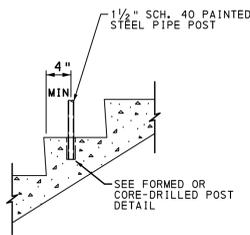


TYPICAL FORMED OR CORE-DRILLED POST DETAIL
NTS

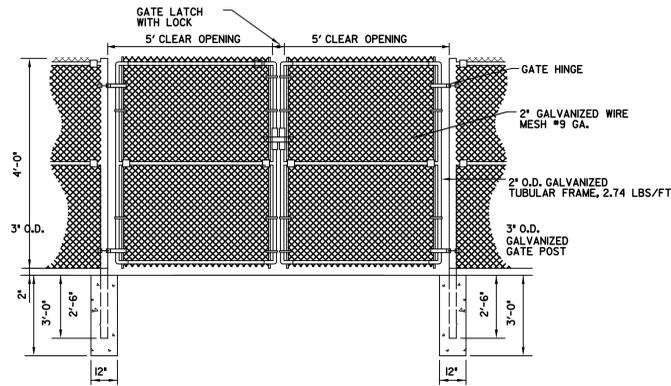
ANCHOR POST USING NON-SHRINK, NON-METALLIC GROUT IN SPACE BETWEEN HOLE AND POST. COST IS INCIDENTAL TO THE BID ITEM STAIR RAILING

NOTES FOR HANDRAILS:

1. ALL HANDRAILS TO BE SCHEDULE 40 STEEL PIPE, ASTM A53, GRADE B.
2. STEPS SHALL BE FIELD MEASURED FOR FABRICATION OF HANDRAIL.
3. HANDRAIL SHALL BE GIVEN 2 TOPCOATS OF BLACK ALKYD ENAMEL PAINT.
4. ALL RAILING CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE.

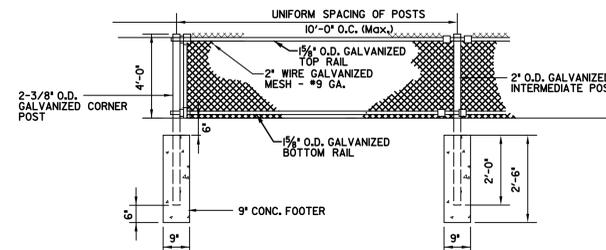


HANDRAIL DETAILS
NTS



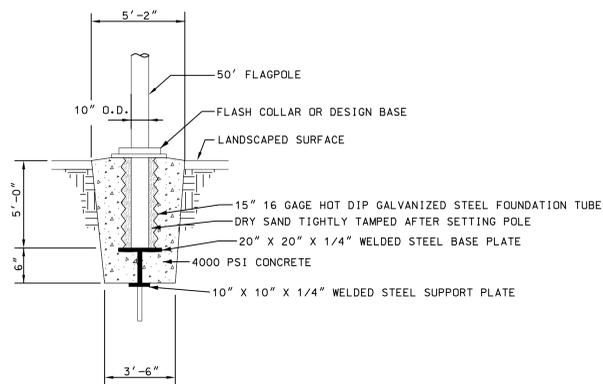
FENCE GATE DETAIL

NOT TO SCALE
NOTE: GATE FRAME SHALL BE WELDED 1 7/8" O.D. MOUNTED ON BALL AND SOCKET TYPE HINGE. LATCH TO BE POSITIVE PIVOT DROP TYPE WITH HOLE TO MATCH POST MOUNTED RECEIVER FOR PADLOCKING.
NOTE: SELVAGE TO BE KNUCKLED



TYPICAL 4'-0" CHAIN LINK FENCE DETAIL

NOT TO SCALE
NOTES:
SELVAGE TO BE KNUCKLED
POSTS TO BE GALVANIZED COATED POSTS



TYPICAL FLAGPOLE FOUNDATION DETAIL
NOT TO SCALE

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RECORD REVISIONS



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
DGS C-0251-0095 PHASE 1-1

VERIFY SCALE BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 1 IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY	REGIONAL TRAFFIC MANAGEMENT CENTER AND PARKING STRUCTURE DEPARTMENT OF TRANSPORTATION King of Prussia, Upper Merion Township Montgomery County, PA	DRAWN BY RMD	DATE 06/21/2020	DRAWING No. C-1004
	SITE CONSTRUCTION DETAILS	CHECKED BY CGB	SCALE NO SCALE	