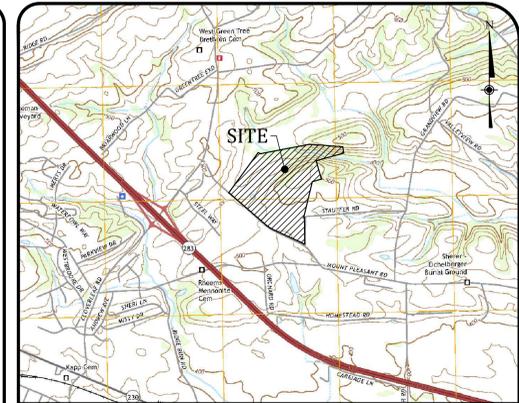


POST-CONSTRUCTION STORMWATER MANAGEMENT PLAN

FOR 283 COMMERCE CENTER - BUILDING #1

FOR
PDC NORTHEAST LP IV, LLC
MOUNT JOY TOWNSHIP
LANCASTER COUNTY, PENNSYLVANIA
JANUARY 04, 2023



LOCATION MAP

SCALE: 1" = 2000'

UNIFORM PARCEL IDENTIFIER
#461-89922-0

INDEX OF DRAWINGS

SHEET NO.	TITLE
C-100	COVER SHEET
C-200	OVERALL EXISTING CONDITIONS PLAN
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C-1501 - C-1503	POST-CONSTRUCTION STORMWATER MANAGEMENT DETAIL
10 SHEETS IN SET	

ACT 287

LANDWORKS CIVIL DESIGN, LLC HEREBY STATES THAT, PURSUANT TO THE PROVISIONS OF ACT 287 OF 1974, OF 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 THESE DRAWINGS:

- PURSUANT TO SECTION 4, CLAUSE (2) OF SAID ACT, LANDWORKS CIVIL DESIGN, LLC 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.
- PURSUANT TO SECTION 4, CLAUSE (5) OF SAID ACT, LANDWORKS CIVIL DESIGN, LLC HAS MET THEIR OBLIGATIONS OF CLAUSE (2) BY CALLING THE ONE CALL SYSTEM SERVING THE LOCATION WHERE EXCAVATION IS TO BE PERFORMED.
- PURSUANT TO SECTION 4, CLAUSE (3) OF SAID ACT, LANDWORKS CIVIL DESIGN, LLC 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.

AND LANDWORKS CIVIL DESIGN, LLC 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 LANDWORKS CIVIL DESIGN, LLC IS REFLECTING SAID INFORMATION ON THESE DRAWINGS ONLY DUE TO THE REQUIREMENTS OF THE SAID ACT NO. 181 OF 2006.

ONE CALL SYSTEM SERIAL NO. NOTIFICATION:

DATE: 2022

ONE CALL SYSTEM SERIAL NUMBER: #20221612420 & #20213161628



CALL BEFORE YOU DIG
PENNSYLVANIA LAW REQUIRES
(3) WORKING DAYS NOTICE FOR
CONSTRUCTION PHASE AND (10) WORKING
DAYS IN DESIGN STAGE - STOP CALL

ENGINEER'S CERTIFICATION

I, JOSHUA C. GEORGE, P.E., A REGISTERED PROFESSIONAL ENGINEER OF THE COMMONWEALTH OF PENNSYLVANIA, HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE, THIS PLAN IS ACCURATE AND CORRECT AS INDICATED.

01/04/23

JOSHUA C. GEORGE, P.E. REG. NO. 056897-E



APPLICANT

PDC NORTHEAST LP IV, LLC
6059 ALLENTOWN BLVD SUITE 127
HARRISBURG, PA 17112
(717) 649-8588
ATTN: JOE PETERS

OWNER

FRANKLIN B. GREINER JR.
700 CORNWALL MOUNTAIN ROAD
LITIZ, PA 17543

LIST OF UTILITIES

SERIAL NUMBER - [20221612420]-[000] & [20213161628]-[000]

COMPANY: COMCAST
ADDRESS: 339 BALTIMORE RD
SHIPPENSBURG, PA. 17257
CONTACT: WILLIAM MAYS
EMAIL: william_mays@comcast.com

COMPANY: FIRST ENERGY PENELEC
ADDRESS: 21 S MAIN ST
AKRON, OH. 44308
CONTACT: GARA WARREN
EMAIL: GARAWARREN@FIRSTENERGYCORP.COM

COMPANY: VERIZON BUSINESS FORMERLY MCI
ADDRESS: 400 INTERNATIONAL PARKWAY
RICHARDSON, TX. 75081
CONTACT: DEAN BOYERS
EMAIL: investigation@verizon.com

COMPANY: MOUNT JOY TOWNSHIP LANCASTER COUNTY
ADDRESS: 8883 ELIZABETHTOWN RD
ELIZABETHTOWN, PA. 17022
CONTACT: KEN EBERSOLE
EMAIL: KEN@MOUNTJOYTWP.ORG

COMPANY: PPL ELECTRIC UTILITIES CORPORATION
ADDRESS: 434 SUSQUEHANNA TRAIL
NORTHUMBERLAND, PA. 17857
CONTACT: DOUG HAUPT
EMAIL: dhaupt@pplweb.com

COMPANY: LUMEN/CENTURYLINK
ADDRESS: 200 TECHNOLOGY DRIVE
PITTSBURGH, PA. 15219
CONTACT: DAN SHEINTO
EMAIL: DAN.SHEINTO@LUMEN.COM

COMPANY: UGI UTILITIES INC
ADDRESS: 1301 AIP DR
MIDDLETOWN, PA. 17057
CONTACT: STEPHEN BATEMAN
EMAIL: sbateman@ugi.com

COMPANY: ELIZABETHTOWN AREA WATER AUTHORITY
ADDRESS: 211 W HUMMELSTOWN STREET
ELIZABETHTOWN, PA. 17022
CONTACT: DEL BECKER

COMPANY: ELIZABETHTOWN REGIONAL SEWER AUTHORITY
ADDRESS: 235 ERSB DR
ELIZABETHTOWN, PA. 17022
CONTACT: STEVEN RETTEW
EMAIL: steve@ersapa.com

COMPANY: MET ED FIRSTENERGY
ADDRESS: 2800 POTTSVILLE PIKE
READING, PA. 19605
CONTACT: PETE HACHEM
EMAIL: PHACHEM@FIRSTENERGYCORP.COM

PROJECT NAME
283 COMMERCE CENTER - BUILDING #1

PROJECT NO. **22-0123-005** C-100

LANDWORKS
CIVIL DESIGN, LLC
land development consultants

1195 VIRGINIA AVENUE YORK, PA 17403
p (717) 891-1195 www.landworkscd.com

CONSTRUCTION SEQUENCE

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED AND IMMEDIATELY STABILIZED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO ONE STAGE IN EACH STAGE AREA. ANY DEVIATION FROM THE FOLLOWING SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL COUNTY CONSERVATION DISTRICT.

- AT LEAST SEVEN (7) SEVEN DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, ALL 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 OF THE LOCAL COUNTY CONSERVATION DISTRICT TO AN ON-SITE PRE-CONSTRUCTION MEETING.
- AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INCORPORATED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- THE LIMITS OF DISTURBANCE (LOD) SHOULD BE MARKED PRIOR TO DISTURBANCE ACTIVITIES (I.E. SURVEY STAKES, POSTS & ROPE, CONSTRUCTION FENCE, ETC.).
- UPON THE INSTALLATION OR STABILIZATION OF ALL PERMETER SEDIMENT CONTROL BMPs AND AT LEAST 3 DAYS PRIOR TO PROCEEDING WITH THE BULK EARTH DISTURBANCE ACTIVITIES, THE PERMITTEE OR CO-PERMITTEE SHALL PROVIDE NOTIFICATION TO THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT.
- INITIAL EROSION AND SEDIMENTATION CONTROL MEASURES AND BMPs MUST BE CONSTRUCTED, STABILIZED, AND OPERATIONAL BEFORE ANY EARTH DISTURBANCE WHICH IS TRIBUTARY TO THOSE MEASURES BEGINS.

PHASE 1

- CLEAR AND GRUB, REMOVE TOPSOIL, PERFORM NECESSARY INITIAL GRADING IN ONLY THE AREA NEEDED FOR EXTENDED ROCK CONSTRUCTION ENTRANCE #1 ON MOUNT PLEASANT ROAD, AND INSTALL EXTENDED ROCK CONSTRUCTION ENTRANCE #1. VEHICLES AND EQUIPMENT MAY NOT ENTER OR EXIT THE PROJECT SITE AT ANY OTHER LOCATION. THE EXISTING DRIVEWAY AND GRAVEL AREA MAY BE USED AS ACCESS INTO THE SITE AND AS A CONTRACTOR STAGING AREA.
- INSTALL FILTER SOCKS #1-61 & #70-71 AND ROCK FILTERS #1-2 THROUGHOUT THE SITE AS SHOWN ON THE PLAN.
- CONDUCT SITE DEMOLITION ACTIVITIES AND REMOVE ALL WASTE FROM THE SITE IN ACCORDANCE WITH THE DEP REGULATIONS. VEHICULAR ACCESS AND RIPRAP APRON, CONSTRUCT ANTI-SEEP COLLARS AND CONCRETE CRADLES ON THE OUTLET PIPES AS PER THE DETAILS PRESENTED ON THE PLAN, WITH A STEEL PLATE OR SIMILAR DEVICE, BLOCK OS-1A TO PREVENT STORMWATER FROM EXITING THE FACILITY THROUGH THIS STRUCTURE.
- CONSTRUCT TEMPORARY FACILITY #1 AND TEMPORARY SEDIMENT BASIN #2 & #3 IN ACCORDANCE WITH THE DESIGN DETAILS PRESENTED ON THE PLAN. INSTALL THE PERMANENT EMBANKMENT BERM, IMPERVIOUS CORE, EMERGENCY SPILLWAY & CHANNEL, AND FOREBAYS TO FORESHED THE DESIGN ELEVATIONS. CLAY CORE MATERIAL SHALL BE AVAILABLE FOR PLACEMENT AS SOON AS EXCAVATION PERMITS PLACE EXCESS FILL MATERIAL IN THE FILL AREAS AS SHOWN ON THE PLANS.
- AS APPLICABLE TO EACH BMP, INSTALL THE EMERGENCY SPILLWAY LINER, SKIMMER CONFIGURATION WITH STONE LANDING BERM, BAFFLES(S), AND CLEANOUT MARKER(S) AS SHOWN ON THE PLAN AND DETAILS. IMMEDIATELY STABILIZE THE FACILITIES' INTERNAL AND EXTERNAL SLOPES WITH THE PRESCRIBED SEED MIX, MULCH, MATTING, AND SLOPE PROTECTION, AS APPLICABLE. ATTACH THE SKIMMER TO THE UNDERDRAIN OR DEWATERING CRIBS. DO NOT INSTALL THE GRATES ON THE OUTLET STRUCTURES AT THIS TIME.
- CONSTRUCT INLET CONVEYANCE SYSTEMS 1-1 TO 1-6 AND 3-3 TO 3-3 AS SHOWN ON THE PLANS. BEGIN AT THE DOWNSTREAM STRUCTURE AND RIPRAP APRON AND PROCEEDING UPSTREAM. CONSTRUCT ANTI-SEEP COLLARS AND CONCRETE CRADLES ON THE OUTLET PIPES AS PER THE DETAILS PRESENTED ON THE PLAN, WITH A STEEL PLATE OR SIMILAR DEVICE, BLOCK OS-1A TO PREVENT STORMWATER FROM EXITING THE FACILITY THROUGH THIS STRUCTURE.

- CONSTRUCT TEMPORARY FACILITY #1 AND TEMPORARY SEDIMENT BASIN #2 & #3 IN ACCORDANCE WITH THE DESIGN DETAILS PRESENTED ON THE PLAN. INSTALL THE PERMANENT EMBANKMENT BERM, IMPERVIOUS CORE, EMERGENCY SPILLWAY & CHANNEL, AND FOREBAYS TO FORESHED THE DESIGN ELEVATIONS. CLAY CORE MATERIAL SHALL BE AVAILABLE FOR PLACEMENT AS SOON AS EXCAVATION PERMITS PLACE EXCESS FILL MATERIAL IN THE FILL AREAS AS SHOWN ON THE PLANS.
- AS APPLICABLE TO EACH BMP, INSTALL THE EMERGENCY SPILLWAY LINER, SKIMMER CONFIGURATION WITH STONE LANDING BERM, BAFFLES(S), AND CLEANOUT MARKER(S) AS SHOWN ON THE PLAN AND DETAILS. IMMEDIATELY STABILIZE THE FACILITIES' INTERNAL AND EXTERNAL SLOPES WITH THE PRESCRIBED SEED MIX, MULCH, MATTING, AND SLOPE PROTECTION, AS APPLICABLE. ATTACH THE SKIMMER TO THE UNDERDRAIN OR DEWATERING CRIBS. DO NOT INSTALL THE GRATES ON THE OUTLET STRUCTURES AT THIS TIME.
- CONSTRUCT INLET CONVEYANCE SYSTEMS 1-1 TO 1-6 AND 3-3 TO 3-3 AS SHOWN ON THE PLANS. BEGIN AT THE DOWNSTREAM STRUCTURE AND RIPRAP APRON AND PROCEEDING UPSTREAM. CONSTRUCT ANTI-SEEP COLLARS AND CONCRETE CRADLES ON THE OUTLET PIPES AS PER THE DETAILS PRESENTED ON THE PLAN, WITH A STEEL PLATE OR SIMILAR DEVICE, BLOCK OS-1A TO PREVENT STORMWATER FROM EXITING THE FACILITY THROUGH THIS STRUCTURE.

- CONSTRUCT TEMPORARY FACILITY #1 AND TEMPORARY SEDIMENT BASIN #2 & #3 IN ACCORDANCE WITH THE DESIGN DETAILS PRESENTED ON THE PLAN. INSTALL THE PERMANENT EMBANKMENT BERM, IMPERVIOUS CORE, EMERGENCY SPILLWAY & CHANNEL, AND FOREBAYS TO FORESHED THE DESIGN ELEVATIONS. CLAY CORE MATERIAL SHALL BE AVAILABLE FOR PLACEMENT AS SOON AS EXCAVATION PERMITS PLACE EXCESS FILL MATERIAL IN THE FILL AREAS AS SHOWN ON THE PLANS.
- AS APPLICABLE TO EACH BMP, INSTALL THE EMERGENCY SPILLWAY LINER, SKIMMER CONFIGURATION WITH STONE LANDING BERM, BAFFLES(S), AND CLEANOUT MARKER(S) AS SHOWN ON THE PLAN AND DETAILS. IMMEDIATELY STABILIZE THE FACILITIES' INTERNAL AND EXTERNAL SLOPES WITH THE PRESCRIBED SEED MIX, MULCH, MATTING, AND SLOPE PROTECTION, AS APPLICABLE. ATTACH THE SKIMMER TO THE UNDERDRAIN OR DEWATERING CRIBS. DO NOT INSTALL THE GRATES ON THE OUTLET STRUCTURES AT THIS TIME.
- CONSTRUCT INLET CONVEYANCE SYSTEMS 1-1 TO 1-6 AND 3-3 TO 3-3 AS SHOWN ON THE PLANS. BEGIN AT THE DOWNSTREAM STRUCTURE AND RIPRAP APRON AND PROCEEDING UPSTREAM. CONSTRUCT ANTI-SEEP COLLARS AND CONCRETE CRADLES ON THE OUTLET PIPES AS PER THE DETAILS PRESENTED ON THE PLAN, WITH A STEEL PLATE OR SIMILAR DEVICE, BLOCK OS-1A TO PREVENT STORMWATER FROM EXITING THE FACILITY THROUGH THIS STRUCTURE.

- CLEAR AND GRUB AND REMOVE TOPSOIL IN THE AREA OF DYNAMIC BERM #1. CONSTRUCT DYNAMIC BERM #1 AND PERMANENT RIP-RAP CHANNEL IN ACCORDANCE WITH THE PLANS DESIGN DETAILS. STORE TOPSOIL IN THE TEMPORARY TOPSOIL STOCKPILE.
- WHEN INLET 3-3 AND THE DOWNSTREAM CONVEYANCE SYSTEM IS INSTALLED AND FUNCTIONAL, DIRECT RUNOFF DIVERSION SOAK #1 TO DISCHARGE INTO THIS INLET.

- CONTACT THE LOCAL COUNTY CONSERVATION DISTRICT FOR AN INSPECTION AND VERIFICATION THAT ALL INITIAL E&S BMPs CONSTRUCTED IN PHASE 1 ARE FUNCTIONAL AND OPERATING PER THE DESIGN DRAWINGS PRIOR TO PROCEEDING TO PHASE 2.

- CONTACT THE LOCAL COUNTY CONSERVATION DISTRICT FOR AN INSPECTION AND VERIFICATION THAT ALL INITIAL E&S BMPs CONSTRUCTED IN PHASE 1 ARE FUNCTIONAL AND OPERATING PER THE DESIGN DRAWINGS PRIOR TO PROCEEDING TO PHASE 2.

PHASE 2

- CLEAR AND GRUB THE ENTIRE SITE. STRIP TOPSOIL AND STOCKPILE IN THE PERMANENT TOPSOIL BERMS OR DESIGNATED TEMPORARY AREA AS SHOWN ON THE PLAN. APPLY TEMPORARY SEEDING TO THE STOCKPILE. ALL EXCESS TOPSOIL NOT REQUIRED TO BE REAPPLIED TO DISTURBED AREAS OF THE PROJECT SHALL BE REMOVED FROM THE SITE. THE RECIPIENT SITE SHALL HAVE AN APPROVED EROSION & SEDIMENTATION CONTROL PLAN PRIOR TO RECEIVING ANY TOPSOIL.

STAGES #13-15 MAY BE PERFORMED SIMULTANEOUSLY AS DIFFERENT AREAS OF THE SITE ARE BROUGHT TO SUBGRADE ELEVATIONS AND VARIOUS CONVEYANCE SYSTEMS, DYNAMIC BERMS, TOP OF SLOPE BERMS, AND OTHER BMPs ARE CONSTRUCTED.

- PROCEED WITH BULK SITE EXCAVATION AND ROUGH GRADING ACTIVITIES ON THE ENTIRE SITE AND BRING THE SITE AREAS TO SUBGRADE ELEVATIONS WHILE MAINTAINING ALL DYNAMIC BERM, TEMPORARY SEDIMENT BASIN, AND TEMPORARY FACILITY ELEVATIONS AND FUNCTIONALITY. CONTINUALLY ADJUST THE DYNAMIC BERM TO THE TOP OF FILL SLOPES TO INTERCEPT THE MAXIMUM AMOUNT OF SEDIMENT REFER TO THE PERMITS FOR THE PLAN. THE REMAINING STORM SEWER CONVEYANCE SYSTEMS SHALL BE INSTALLED. REGULARLY MONITOR AND MAINTAIN ALL SEDIMENT BASIN ELEVATIONS AND OUTLET STRUCTURE CONFIGURATIONS TO ENSURE THAT THE BASINS ARE FULLY FUNCTIONAL. ALSO, APPLY EROSION CONTROL, MATTING TO THE INDICATED AREAS ON THE PLAN, AND ACCUMULATE THE RUNOFF FROM THE PLAN. APPROPRIATE STABILIZATION SHALL BE APPLIED TO FILL SLOPES, LAWN AREAS, LANDSCAPE BERMS, ETC. TO MINIMIZE ACCELERATED EROSION.

- EXTENDED ROCK CONSTRUCTION ENTRANCE #2 MAY BE CONSTRUCTED AT THIS TIME. IF CONSTRUCTED, EXTENDED ROCK CONSTRUCTION ENTRANCE #1 MAY BE REMOVED.

- RETAINING WALL CONSTRUCTION MAY BEGIN AT THIS TIME.

- WHEN THE FINAL FILL SLOPES ALONG THE PERIMETER OF THE SITE BEING TO OCCUR, CONVERT DYNAMIC BERM #1 TO TOP OF SLOPE BERMS AS SHOWN ON THE PLANS.

- WHILE THE TOP OF SLOPE BERMS ARE BEING CONSTRUCTED AND THE SITE IS BROUGHT TO SUBGRADE ELEVATIONS, CONSTRUCT THE REMAINING STORM SEWER CONVEYANCE SYSTEMS, AS SHOWN ON THE PHASE 2 PLAN. THE STORM SEWER SYSTEMS SHOULD BE INSTALLED BEGINNING AT THE DOWNSTREAM STRUCTURE AND RIPRAP APRON AND PROCEEDING UPSTREAM. AFTER INLETS ARE INSTALLED, INLET TOPS SHALL REMAIN PROpped UP WITH BRICKS TO ALLOW RUNOFF TO ENTER THE STORM SEWER CONVEYANCE SYSTEMS. TRIM ANY TO THE SEDIMENT BASIN PRIOR TO CURB INSTALLATION AND PAYING OCCURRING. PROVIDE MASTIC OR EQUIVALENT IN ALL INLETS LOCATED WITH GRASSED AREAS TO PREVENT SOIL FROM WASHING INTO THE STORM SEWER THROUGH UNSEALED JOINTS IN THE INLET BOX AND TOP. ALL STORM SEWER PIPES SHALL BE PERIODICALLY FLUSHED TO PREVENT EXCESSIVE SEDIMENT AND DEBRIS FROM BUILDING UP WITH PIPES AND STRUCTURES. ANY WATER PUMPED FROM STORM SEWER TRENCHES SHALL BE DIRECTED TO A SEDIMENT REMOVAL FACILITY SUCH AS A FILTER BAG OR APPROVED EQUAL. AS THE REMAINING AREAS OF THE SITE REACH SUBGRADE ELEVATIONS, APPROPRIATE STABILIZATION SHALL BE APPLIED TO FILL SLOPES, LAWN AREAS, LANDSCAPE BERMS, ETC. TO MINIMIZE ACCELERATED EROSION.

- INSTALL ROCK FILTERS #3 & #4 AROUND HW 5-1A & HW 5-3A, RESPECTIVELY, PRIOR TO EACH STRUCTURE RECEIVING STORMWATER FLOWS.

- CONSTRUCT PERMANENT CHANNELS #2A, #2B, #2C, #3, #4, #5A, & #5B AS THEIR RESPECTIVE RECEIVING CONVEYANCE SYSTEMS ARE COMPLETED. IMMEDIATELY INSTALL THE SPECIFIED STABILIZATION IN EACH CHANNEL.

- ONCE ROCK FILTERS #3 & #4 ARE INSTALLED AND FUNCTIONAL, FILTER SOCKS #60 & #61 MAY BE REMOVED AND/OR ADJUSTED AS NEEDED TO COMPLETE INSTALLATION OF NEARBY CHANNELS.

- INSTALL INLET PROTECTION ON THE SPECIFIED INLETS IMMEDIATELY AFTER THEY ARE CONSTRUCTED.

- ONCE THE SITE IS BROUGHT TO SUBGRADE ELEVATIONS, CONSTRUCT SANITARY SEWER MAIN LINES, MANHOLES, AND BUILDING SEWER LATERALS. ALSO, INSTALL OTHER UTILITY SERVICE LINES AND OTHER RELATED UNDERGROUND WORK AT THIS TIME. ANY WATER PUMPED FROM UTILITY TRENCHES SHALL BE DIRECTED TO A SEDIMENT REMOVAL FACILITY SUCH AS A FILTER BAG OR APPROVED EQUAL, WHEN PERFORMING ANY OFF-SITE UTILITY WORK. ONLY TRENCHING WORK THAT CAN BE COMPLETED AND PERMANENTLY STABILIZED EACH WORKING DAY SHALL BE PERFORMED IN ORDER TO PREVENT SEDIMENT EROSION LEAVING THE WORK AREA. DURING TRENCHING, STOCKPILE OF THE MATERIALS USED FOR TRENCHING, INCLUDING SEEDING, MULCHING, AND MATTING.

- ONCE THE BUILDING PAD IS BROUGHT TO SUBGRADE ELEVATIONS, BUILDING CONSTRUCTION MAY NOW COMMENCE AT ANY TIME.

- CONSTRUCT SITE CURBING AND PLACE SUBGRADE MATERIAL TO STABILIZE THE SITE DRIVEWAYS, TRUCK COURTS, TRUCK STORAGE AREAS AND PARKING AREAS AS SOON AS PRACTICABLE. THIS WILL ELIMINATE THE NEED FOR TOP OF SLOPE BERMS.

- CONTINUE WITH GENERAL BUILDING CONSTRUCTION AND CONSTRUCTION OF OTHER LOCALIZED SITE ITEMS SUCH AS SITE LIGHTING, SIDEWALK SYSTEMS, FENCING, UTILITY CONNECTIONS, ETC.

- INSTALL BITUMINOUS BINDER COURSE ON THE SITE DRIVEWAYS, TRUCK COURTS, TRUCK STORAGE AREAS AND PARKING AREAS ONCE MAJOR EXTERIOR BUILDING CONSTRUCTION AND ALL UTILITY CONSTRUCTION ARE SUBSTANTIALLY COMPLETED.

- CONDUCT FINE GRADING ACTIVITIES AND PLACE TOPSOIL ON ALL REMAINING AREAS. APPLY PERMANENT SEEDING, SOIL SUPPLEMENTS, MULCHING, AND MATTING WHERE APPLICABLE IN ACCORDANCE WITH THE PERMANENT SEEDING SPECIFICATIONS PRESENTED ON THE PLAN. INSTALL FINAL LANDSCAPE PLANTINGS PER PROJECT REQUIREMENTS AND PROCEDURES PRESENTED ON THE APPROVED PCSM PLAN.

- 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 FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPs.

- AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY E&S BMPs MUST BE REMOVED OR CONVERTED TO PERMANENT PCSM BERMS. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPs MUST BE STABILIZED IMMEDIATELY IN ACCORDANCE WITH THE PERMANENT SEEDING SPECIFICATIONS PRESENTED ON THE PLAN, IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS. SUCH REMOVAL/CONVERSIONS SHOULD BE DONE ONLY DURING THE GERMINATING SEASON.

- REMOVE ALL SECONDARY EROSION AND SEDIMENTATION CONTROL MEASURES ONCE THE SITE IS STABILIZED (70 PERCENT UNIFORM STABILIZATION) SUCH AS DIVERSION SWALES/BERMS, FILTER SOCK, ROCK FILTER, INLET PROTECTION, AND THE LIKE. PERMANENTLY RE-SEED, MULCH AND MAT WHERE APPLICABLE. ANY REMAINING AREAS WHICH REMAIN DISTURBED OR HAVE NOT BEEN ESTABLISHED FROM PREVIOUS SEEDING APPLICATIONS IN ACCORDANCE WITH THE PERMANENT SEEDING SPECIFICATIONS PRESENTED ON THE PLAN.

- CRITICAL STAGE:** WHEN THE ENTIRE WATERSHED AREAS TO THEM ARE COMPLETELY STABILIZED, CONVERT ALL TEMPORARY SEDIMENT BASINS AND FACILITIES INTO THEIR RESPECTIVE PERMANENT MRC OR SWMBMP FACILITIES AS PER THE DETAILS PROVIDED ON THE PCSM PLAN. AS APPLICABLE, PLACE THE SKIMMER AND CLEANOUT MARKERS, BAFFLES, AND CLEANOUT MARKERS ON THE PLAN. REMOVE ALL SEDIMENT FROM GRATES ONCE EACH PERMANENT OUTLET STRUCTURE AND REMOVE ANY TEMPORARY STEEL PLATES. REMOVE ALL SEDIMENT FROM THE FACILITIES AND EITHER INCORPORATE INTO THE SITE OR DISPOSE OF IN ACCORDANCE WITH DEP REGULATIONS. INSTALL THE SOIL MIXTURES AND UNDERDRAINS IN EACH FACILITY PER THE DETAILS ON THE PLAN. RE-SEED AND STABILIZE ANY AREAS DISTURBED DURING CONVERSION OF THE BASIN PER THE PROJECT'S SPECIFICATIONS.

- CONSTRUCT THE PERMANENT EMBANKMENT, CLAY CORE, AND EMERGENCY SPILLWAY BETWEEN MRC #1 AND SWMBMP FACILITY #2.

- CRITICAL STAGE:** WHEN THE ENTIRE SITE HAS BEEN STABILIZED, INSTALL THE LANDSCAPE RESTORATION SEED MIXTURE. THE SEED FORMULA SHALL BE VERIFIED BEFORE BEING INSTALLED.

- INSTALL SITE SIGNAGE, FINAL WEARING COURSE, PAVEMENT MARKINGS, AND OTHER INCIDENTAL CONSTRUCTION ITEMS AS NECESSARY.

- UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES, REMOVAL OF ALL TEMPORARY BMPs, INSTALLATION OF ALL PERMANENT PCSM BMPs, AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATORS SHALL CONTACT THE LOCAL COUNTY CONSERVATION DISTRICT FOR A FINAL INSPECTION.

- 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 NOTICE OF TERMINATION (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.

STEEL WAY CONSTRUCTION

IF NECESSARY, THE IMPROVEMENTS AND EXTENSION TO STEEL WAY CAN BE COMPLETED AS A SEPARATE SEQUENCE FROM THE MAIN PROJECT SITE. COORDINATE WITH NEIGHBORING PROPERTY OWNERS TO MAINTAIN ACCESS TO THEIR SITE TO THE GREATEST EXTENT PRACTICABLE.

- PERFORM STAGES #1-5 AS DESCRIBED ABOVE.

- CLEAR AND GRUB, REMOVE TOPSOIL, PERFORM NECESSARY INITIAL GRADING IN ONLY THE AREA NEEDED FOR EXTENDED ROCK CONSTRUCTION ENTRANCE #3 ON MOUNT PLEASANT ROAD, AND INSTALL EXTENDED ROCK CONSTRUCTION ENTRANCE #3.

- INSTALL FILTER SOCKS #62-69 AS SHOWN ON THE PLAN.

- CONDUCT SITE DEMOLITION ACTIVITIES AND REMOVE ALL WASTE FROM THE SITE IN ACCORDANCE WITH THE DEP REGULATIONS. VEHICULAR ACCESS AND RIPRAP APRON, CONSTRUCT ANTI-SEEP COLLARS AND CONCRETE CRADLES ON THE OUTLET PIPES AS PER THE DETAILS PRESENTED ON THE PLAN.

- CRITICAL STAGE:** CLEAR AND GRUB, REMOVE TOPSOIL, PERFORM NECESSARY INITIAL GRADING ONLY WITHIN THE AREAS DESIGNATED FOR TEMPORARY SEDIMENT BASIN #4, ASSOCIATED INLET AND OUTLET CONVEYANCE SYSTEMS, AND PIPE RUN #9. STORE TOPSOIL DURING EXCAVATION OF THIS BMP IN THE MAIN SITE'S TEMPORARY TOPSOIL STOCKPILE.

- A. BEGIN EXCAVATION OF TEMPORARY SEDIMENT BASIN #4 AND USE EXCESS MATERIAL TO BEGIN BRINGING STEEL WAY TO SUBGRADE ELEVATIONS. MAINTAIN THE EXISTING CHANNEL NEXT TO TEMPORARY SEDIMENT BASIN #4 TO PREVENT OFFSITE STORMWATER FROM ENTERING THE BASIN.

- B. CONSTRUCT CONVEYANCE SYSTEM 9-2 TO 9-4, BEGINNING AT THE DOWNSTREAM STRUCTURE AND RIPRAP APRON, AND PROCEEDING UPSTREAM. CONSTRUCT ANTI-SEEP COLLARS AND CONCRETE CRADLES ON THE OUTLET PIPES AS PER THE DETAILS PRESENTED ON THE PLAN.

- C. CONSTRUCT OUTLET CONVEYANCE SYSTEM OS-4A TO OS-4C, BEGINNING AT THE DOWNSTREAM STRUCTURE AND RIPRAP APRON, AND PROCEEDING UPSTREAM. CONSTRUCT ANTI-SEEP COLLARS AND CONCRETE CRADLES ON THE OUTLET PIPES AS PER THE DETAILS PRESENTED ON THE PLAN.

- D. CONSTRUCT TEMPORARY SEDIMENT BASIN #4 IN ACCORDANCE WITH THE DESIGN DETAILS PRESENTED ON THE PLAN. INSTALL THE PERMANENT EMBANKMENT BERM AND IMPERVIOUS CORE TO THE DESIGN ELEVATIONS. CLAY CORE MATERIAL SHALL BE AVAILABLE FOR PLACEMENT AS SOON AS EXCAVATION PERMITS. PLACE EXCESS FILL MATERIAL IN AREAS NEEDED FOR STEEL WAY.

- E. INSTALL THE SKIMMER CONFIGURATION WITH STONE LANDING BERM, BAFFLES, AND CLEANOUT MARKER AS SHOWN ON THE PLAN AND DETAILS. IMMEDIATELY STABILIZE THE FACILITIES' INTERNAL AND EXTERNAL SLOPES WITH THE PRESCRIBED SEED MIX, MULCH, MATTING, AND SLOPE PROTECTION, AS APPLICABLE. ATTACH THE SKIMMER TO THE UNDERDRAIN CRIBS. DO NOT INSTALL THE GRATES ON THE OUTLET STRUCTURES AT THIS TIME.

- FOLLOW THE CONSTRUCTION SEQUENCE DESCRIBED IN STAGES #12-28 FOR COMPLETION OF STEEL WAY, INCLUDING THE CRITICAL STAGE DESCRIBED IN STAGE #24 FOR BMP CONVERSION.

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NPDES PERMIT NOTICES

- PCSM REQUIREMENTS

- A LICENSED PROFESSIONAL OR A DESIGNEE SHALL BE PRESENT ON-SITE AND BE RESPONSIBLE DURING CRITICAL STAGES OF IMPLEMENTATION OF THE APPROVED PCSM PLAN. THE CRITICAL STAGES MAY INCLUDE THE INSTALLATION OF UNDERGROUND TREATMENT OR STORAGE BMPs, STRUCTURALLY ENGINEERED BMPs, OR OTHER BMPs AS DEEMED APPROPRIATE BY THE DEPARTMENT OR THE CONSERVATION DISTRICT.

- B. THE PCSM PLAN, INSPECTION REPORTS, AND MONITORING RECORDS SHALL BE AVAILABLE FOR REVIEW AND INSPECTION BY THE DEPARTMENT OR THE CONSERVATION DISTRICT.

- PCSM LONG TERM OPERATIONS AND MAINTENANCE REQUIREMENTS

- A. THE PERMITTEE OR CO-PERMITTEE SHALL BE RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF PCSM BMPs UNLESS A DIFFERENT PERSON IS IDENTIFIED IN THE NOTICE OF TERMINATION AND HAS AGREED TO LONG-TERM OPERATION AND MAINTENANCE OF PCSM BMPs.

- B. THE PERMITTEE OR CO-PERMITTEE THAT FAILS TO TRANSFER LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMP OR OTHERWISE FAILS TO COMPLY WITH THIS REQUIREMENT SHALL REMAIN JOINTLY AND SEVERALLY RESPONSIBLE WITH THE LANDOWNER FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPs LOCATED ON THE PROPERTY.

- PERMIT TERMINATION

- A. UPON PERMANENT STABILIZATION OF EARTH DISTURBANCE ACTIVITY AND INSTALLATION OF BMPs IN ACCORDANCE WITH AN APPROVED PLAN, THE PERMITTEE OR CO-PERMITTEE SHALL SUBMIT A NOTICE OF TERMINATION TO THE DEPARTMENT OR CONSERVATION DISTRICT.

- B. THE NOTICE OF TERMINATION MUST INCLUDE:

- (1) THE FACILITY NAME, ADDRESS AND LOCATION

- (2) THE OPERATOR NAME AND ADDRESS

- (3) THE NPDES PERMIT NUMBER

- (4) THE REASON FOR PERMIT TERMINATION

- (5) IDENTIFICATION OF THE PERSONS WHO HAVE AGREED TO AND WILL BE RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPs.

- (6) COPY OF LEGAL INSTRUMENT: FOR ANY PROPERTY CONTAINING A POSM BMP, THE PERMITTEE OR CO-PERMITTEE SHALL RECORD AN INSTRUMENT WITH THE RECORDER OF DEEDS WHICH WILL ASSURE DISCLOSURE OF THE PCSM BMP AND THE RELATED OBLIGATION IN THE ORDINARY COURSE OF A TITLE SEARCH OF THE SUBJECT PROPERTY. THE RECORDED INSTRUMENT MUST IDENTIFY THE PCSM BMP, PROVIDE FOR NECESSARY ACCESS RELATED TO LONG-TERM OPERATION AND MAINTENANCE FOR PCSM BMPs AND PROVIDE FOR THE RESPONSIBILITY FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMP IF A COVENANT THAT RUNS WITH THE LAND THAT IS BINDING UPON AND ENFORCEABLE BY SUBSEQUENT GRANTEE, AND PROVIDE PROOF OF FILING WITH THE NOTICE OF TERMINATION.

- (7) FINAL CERTIFICATION: THE PERMITTEE SHALL INCLUDE WITH THE NOTICE OF TERMINATION "RECORD DRAWINGS" WITH A FINAL CERTIFICATION STATEMENT FROM A LICENSED PROFESSIONAL, WHICH READS AS FOLLOWS:

- (8) THE PERMITTEE SHALL RETAIN A COPY OF THE RECORD DRAWINGS AS PART OF THE APPROVED PCSM PLAN.

- (9) THE PERMITTEE SHALL PROVIDE A COPY OF THE RECORD DRAWINGS AS PART OF THE APPROVED PCSM PLAN TO THE PERSON IDENTIFIED IN THIS SECTION AS BEING RESPONSIBLE FOR THE LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPs.

- (10) THE PERMITTEE SHALL PROVIDE A COPY OF THE RECORD DRAWINGS AS PART OF THE APPROVED PCSM PLAN TO THE PERSON IDENTIFIED IN THIS SECTION AS BEING RESPONSIBLE FOR THE LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPs.

- (11) THE PERMITTEE SHALL PROVIDE A COPY OF THE RECORD DRAWINGS AS PART OF THE APPROVED PCSM PLAN TO THE PERSON IDENTIFIED IN THIS SECTION AS BEING RESPONSIBLE FOR THE LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPs.

- (12) THE PERMITTEE SHALL PROVIDE A COPY OF THE RECORD DRAWINGS AS PART OF THE APPROVED PCSM PLAN TO THE PERSON IDENTIFIED IN THIS SECTION AS BEING RESPONSIBLE FOR THE LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPs.

- (13) THE PERMITTEE SHALL PROVIDE A COPY OF THE RECORD DRAWINGS AS PART OF THE APPROVED PCSM PLAN TO THE PERSON IDENTIFIED IN THIS SECTION AS BEING RESPONSIBLE FOR THE LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPs.

- (14) THE PERMITTEE SHALL PROVIDE A COPY OF THE RECORD DRAWINGS AS PART OF THE APPROVED PCSM PLAN TO THE PERSON IDENTIFIED IN THIS SECTION AS BEING RESPONSIBLE FOR THE LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPs.

- (15) THE PERMITTEE SHALL PROVIDE A COPY OF THE RECORD DRAWINGS AS PART OF THE APPROVED PCSM PLAN TO THE PERSON IDENTIFIED IN THIS SECTION AS BEING RESPONSIBLE FOR THE LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPs.

- (16) THE PERMITTEE SHALL PROVIDE A COPY OF THE RECORD DRAWINGS AS PART OF THE APPROVED PCSM PLAN TO THE PERSON IDENTIFIED IN THIS SECTION AS BEING RESPONSIBLE FOR THE LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPs.

- (17) THE PERMITTEE SHALL PROVIDE A COPY OF THE RECORD DRAWINGS AS PART OF THE APPROVED PCSM PLAN TO THE PERSON IDENTIFIED IN THIS SECTION AS BEING RESPONSIBLE FOR THE LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPs.

- (18) THE PERMITTEE SHALL PROVIDE A COPY OF THE RECORD DRAWINGS AS PART OF THE APPROVED PCSM PLAN TO THE PERSON IDENTIFIED IN THIS SECTION AS BEING RESPONSIBLE FOR THE LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPs.

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- (20) THE PERMITTEE SHALL PROVIDE A COPY OF THE RECORD DRAWINGS AS PART OF THE APPROVED PCSM PLAN TO THE PERSON IDENTIFIED IN THIS SECTION AS BEING RESPONSIBLE FOR THE LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPs.

- (21) THE PERMITTEE SHALL PROVIDE A COPY OF THE RECORD DRAWINGS AS PART OF THE APPROVED PCSM PLAN TO THE PERSON IDENTIFIED IN THIS SECTION AS BEING RESPONSIBLE FOR THE LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPs.

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- (23) THE PERMITTEE SHALL PROVIDE A COPY OF THE RECORD DRAWINGS AS PART OF THE APPROVED PCSM PLAN TO THE PERSON IDENTIFIED IN THIS SECTION AS BEING RESPONSIBLE FOR THE LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPs.

- (24) THE PERMITTEE SHALL PROVIDE A COPY OF THE RECORD DRAWINGS AS PART OF THE APPROVED PCSM PLAN TO THE PERSON IDENTIFIED IN THIS SECTION AS BEING RESPONSIBLE FOR THE LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPs.

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- (31) THE PERMITTEE SHALL PROVIDE A COPY OF THE RECORD DRAWINGS AS PART OF THE APPROVED PCSM PLAN TO THE PERSON IDENTIFIED IN THIS SECTION AS BEING RESPONSIBLE FOR THE LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPs.

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SOIL LIMITATIONS & RESOLUTIONS

IN GENERAL, THERE ARE NO KNOWN UNSUAL SITE CHARACTERISTICS THAT ARE UNLIKE THOSE FOUND ELSEWHERE IN THE REGION WHERE SIMILAR SOILS ARE PRESENT. HOWEVER, REFERENCE IS HEREBY MADE TO THE SITE'S GEOTECHNICAL ENGINEERING REPORT FOR ANY GEOTECHNICAL RECOMMENDATIONS PROVIDED SPECIFICALLY FOR THE SUBJECT PROJECT.

ANY ROCK ENCOUNTERED WILL BE RIPPED OR BLASTED AS NECESSARY, AND USED FOR COMPACTED FILL IN OTHER AREAS OR REMOVED FROM THE SITE.

IF BLASTING IS NECESSARY, USE CONTROLLED TECHNIQUES TO CONTAIN VIBRATIONS WITHIN THE REQUIRED BLASTING AREA. A CERTIFIED BLASTING PROFESSIONAL MUST OVERSEE ALL BLASTING ACTIVITIES. THE PROFESSIONAL SHALL BE FAMILIAR WITH BLASTING TECHNIQUES IN A KARST ENVIRONMENT AND THE PREVENTION OF SINKHOLE. AFTER BLASTING OPERATIONS, THE BLASTING PROFESSIONAL SHALL PERFORM INSPECTIONS TO LOCATE POSSIBLE AREAS OF CONCERN. IF ANY SINKHOLEs ARE ENCOUNTERED, DIVERT SURFACE WATER AWAY FROM THE SINKHOLE AND IMMEDIATELY FOLLOW THE SINKHOLE REPAIR AND REMEDIATION PROCEDURES ALONG WITH ANY RECOMMENDATIONS OF THE BLASTING PROFESSIONAL. ADDITIONALLY, BEFORE PLACING THE FINAL ENGINEERED SOIL MIXTURE WITHIN EACH SWM / BMP FACILITY, INSPECT AND REPAIR THE SUBGRADE FOR SINKHOLE

