CORPORATION ADOPTION

KNOW ALL MEN BY THESE PRESENTS, that _____
(Name of Corporation)
a corporation, by virtue of a resolution of the Board of Directors, thereof does hereby adopt this as its plan of lots of its property situate in the Borough of Big Beaver, Beaver County, Pennsylvania, and for divers advantages accruing to it, does hereby dedicate forever, for public use and for highway purposes, all drives, roads, streets, lands and ways and other public highways shown upon the plan with the same force and effect as if the same has been opened through legal proceedings, and in consideration of the approval of said plan and any future acceptance of said public highways by the said Borough of Big Beaver, its successors or assigns from any liability for damage arising and to arise from the appropriation of said ground for public highways and the physical grading thereof to any grades that may be established. This dedication and release shall be binding upon _____
(Name of Corporation)
its successors and assigns and purchasers of lots in this plan.

IN WITNESS WHEREOF, the said corporation has caused its corporate seal to be affixed by the hand of its president and the same to be attested by its secretary this _____ day of _____, A.D., 20_____

ATTEST: _____
(Name of Corporation)

_____ _____
(Secretary) (President)

The foregoing adoption and dedication is made by _____

_____
(Name of Individual or Corporate Owner)
with the full understanding and agreement that the approval of the Borough Council of the Borough of Big Beaver, if hereto attached, will become null and void unless this plan is recorded in the Recorder of Deeds Office of Beaver County, County Court House, Beaver, Pennsylvania, within ninety (90) calendar days of the date of said approval.

BOROUGH OF BIG BEAVER PLANNING COMMITTEE

The within Plat of Subdivision has been reviewed and recommendations concerning sme was dispatched to Borough Council of the Borough of Big Beaver on the _____ day of _____ _____

DATED this _____ day of _____, A.D. 20_____

BOROUGH OF BIG BEAVER PLANNING COMMITTEE

_____ _____
(Secretary) (Chairman)

BEAVER COUNTY PLANNING COMMISSION REVIEW

MCS division and/or Land Development Municipality with a SALDO FOR the meeting:

The Beaver County Planning Commission hereby gives public notice that it has reviewed this PLAN FOR RECORDING PURPOSES ONLY AT A MEETING HELD ON _____, 20___, AS REQUIRED BY THE PENNSYLVANIA MUNICIPALITIES PLANNING CODE, ACT 247 OF 1968, AS AMENDED. A COPY OF THE REVIEW IS ON FILE AT THE BEAVER COUNTY OFFICE OF PLANNING AND REDEVELOPMENT. THE COMMENTS HAVE BEEN FORWARDED TO _____ IN A LETTER DATED _____. THE BEAVER COUNTY PLANNING COMMISSION DOES NOT REPRESENT OR GUARANTEE THAT THIS PLAN COMPLIES WITH THE VARIOUS ORDINANCES, RULES, REGULATIONS OR LAWS OF THE LOCAL MUNICIPALITY, THE COMMONWEALTH OF PENNSYLVANIA, OR THE FEDERAL GOVERNMENT. The review of the subdivision by the Beaver County Planning Commission does not constitute an acceptance of any services or improvements shown on this plan or an assumption of maintenance responsibilities. (Municipality) has the only and final authority for such conditions.

_____ _____ _____
PLAN TRACKING NUMBER DIRECTOR SIGNATURE DATE

OWNER'S ACCEPTANCE OF RESPONSIBILITY FOR PROVIDING STORMWATER DRAINAGE FACILITIES AND CONTROL OF STORMWATER DRAINAGE

KNOW ALL MEN BY THESE PRESENTS, that (I, We) of the Borough of Big Beaver, County of Beaver, Commonwealth of Pennsylvania, for ourselves, our heirs, executors, administrators and assigns, and for our grantees and their subsequent purchasers, do hereby accept full and complete responsibility, liability, expense and provision of facilities for the control of stormwater drainage over, across and through this Subdivision of land until such time as (I or We), our heirs, executors, administrators and assigns construct stormwater drainage facilities in accordance with the Borough Council specifications and requirements and the same is officially accepted by action of Borough of Big Beaver, and until such formal acceptance (I or We) for ourselves, our heirs, executors, administrators, and assigns do hereby release Borough of Big Beaver from any responsibility in connection therewith. This acceptance of responsibility shall be binding upon _____ our heirs, executors, administrators and assigns, and all purchasers of lots in this plan of subdivision.

IN WITNESS WHEREOF, WE HEREUNTO SET OUR HANDS AND SEALS THIS _____ day of _____, A.D., 20_____

_____ SEAL
(Owner or Owners)

SURVEYOR'S CERTIFICATE

I, _____, a Professional Land Surveyor of the Commonwealth of Pennsylvania, do hereby certify that this plan correctly represents the lots, lands, streets and highways as surveyed arid plotted by me for the owners or agents, and that all property monumentation/iron pins shown on the plan actually exist or will be set in the field.

(SEAL) _____
(Surveyor)

_____
(Registration No.)

_____
(Date)

APPROVAL BY COUNCIL OF BOROUGH OF BIG BEAVER

The Council of the Borough of Big Beaver, Beaver County, Pennsylvania, hereby approves this plan of subdivision for recording purposes only. This approval by the Borough of Big Beaver does not constitute an acceptance of the roads, streets, storm and sanitary drainage facilities, easements or rights-of-way, water mains or any other services or improvements shown on this plan, nor an assumption of maintenance responsibility, nor will the same be accepted or maintained until constructed in accordance with all borough specifications and requirements and officially accepted by action of the Borough Council. This approval shall in no way be deemed an authorization to commence construction or related activities. This plan of subdivision approved by resolution of the Borough Council of the Borough of Big Beaver, Beaver County, PA, on this _____ day of _____, A.D., 20___

ATTEST:

_____ _____
(Secretary) (Chairman)

(SEAL)

BOROUGH ENGINEER'S CERTIFICATE

I, _____, a Registered Professional Engineer, certify that this plan meets applicable engineering and design requirements of the current applicable standards and ordinance provisions of the Borough of Big Beaver, except as departures have been authorized by appointed or elected officials of the Borough.

(SEAL) _____
(Surveyor)

_____
(Registration No.)

_____
(Date)

PRELIMINARY LAND DEVELOPMENT PLANS

FOR

switch

PIT 01-03 PHASE I EARLY WORKS

PARCEL I, II, III
(TAX PARCELS #531030389000 & 531030391000)
201 PENNDALE ROAD & 0 BIG BEAVER BLVD.,
BIG BEAVER BOROUGH, PA

INDEX OF DRAWINGS

SHEET NO.	SHEET NAME	SHEET NO.	SHEET NAME	SHEET NO.	SHEET NAME
C001	COVER SHEET	C336	STORMWATER PROFILES	C515	STAGE II EROSION & SEDIMENT CONTROL PLAN
C002	GENERAL NOTES	C337	STORMWATER PROFILES	C516	STAGE II EROSION & SEDIMENT CONTROL PLAN
C100	EXISTING CONDITIONS	C338	STORMWATER PROFILES	C517	STAGE II EROSION & SEDIMENT CONTROL PLAN
C101	STEEP SLOPES EXHIBIT	C339	STORMWATER PROFILES	C520	STAGE III EROSION & SEDIMENT CONTROL OVERALL PLAN
C110	OVERALL DEMOLITION PLAN	C340	STORMWATER PROFILES	C521	STAGE III EROSION & SEDIMENT CONTROL PLAN
C111	DEMOLITION PLAN	C341	STORMWATER PROFILES	C522	STAGE III EROSION & SEDIMENT CONTROL PLAN
C112	DEMOLITION PLAN	C342	STORMWATER PROFILES	C523	STAGE III EROSION & SEDIMENT CONTROL PLAN
C113	DEMOLITION PLAN	C343	STORMWATER PROFILES	C524	STAGE III EROSION & SEDIMENT CONTROL PLAN
C114	DEMOLITION PLAN	C344	STORMWATER PROFILES	C525	STAGE III EROSION & SEDIMENT CONTROL PLAN
C115	DEMOLITION PLAN	C345	STORMWATER PROFILES	C526	STAGE III EROSION & SEDIMENT CONTROL PLAN
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C301	UTILITY PLAN	C403	GRADING & DRAINAGE PLAN	C609	POST CONSTRUCTION STORMWATER MANAGEMENT PLAN DETAILS
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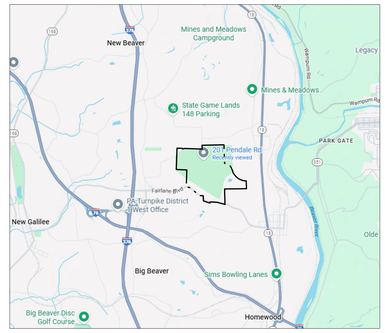
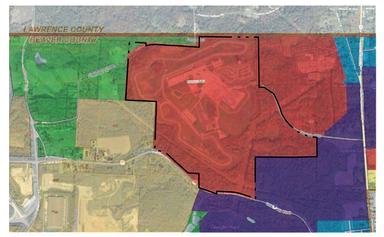
C335	STORMWATER PROFILES	C514	STAGE II EROSION & SEDIMENT CONTROL PLAN	L115	LANDSCAPE PLAN



LOCATION MAP

NOT TO SCALE



ZONING MAP

NOT TO SCALE

CERTIFICATION OF TITLE AND CONCURRENCE OF MORTGAGE WHERE APPLICABLE

I/We hereby certify that the title to the property contained in the _____ is in the name of _____
(Name of Land Development)
_____ and is recorded in Deed Book
(Owner or Owners)
Volume _____, page _____

_____ _____
(Witness) (Owner or Owners)

_____ mortgage of the property contained in the
(Name of Land Mortgage)
_____ consents to the recording of said plan
(Name of Land Development)
and to the dedications and all other matters appearing in the plan.

_____ _____
(Witness) (Name, Title, and Mortgage)

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSVILLE, MD 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076453

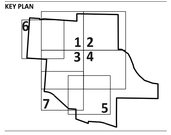
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
B	60% Review	06/08/26
C	90% Review	06/23/26
0	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

THIS DOCUMENT CONSTITUTES THE CONFIDENTIAL AND PROPRIETARY INFORMATION OF SWITCH. NOT TO BE SHARED, MODIFIED, OR DUPLICATED WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF SWITCH.

DRAWING INFORMATION

DATE: JUNE 2026
PROJECT NUMBER: 25010482

DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

SHEET TITLE

COVER

SHEET NUMBER

C001

GENERAL NOTES

1. THE EXISTING CONDITIONS, BOUNDARY, TOPOGRAPHIC, AND/OR ALTA/NSPS SURVEY INFORMATION SHOWN HEREON IS BASED ON A SURVEY PREPARED BY KEYSTONE SURVEYING & MAPPING INC., DATED 10/28/2025, ENTITLED "MAP OF ALTA/NSPS LAND TITLE SURVEY."
2. THE VERTICAL DATUM FOR THIS PROJECT IS NAVD 1988. THE HORIZONTAL DATUM FOR THIS PROJECT IS NAD 1983. COORDINATE SYSTEM: PENNSYLVANIA STATE PLANE. CONTOURS SHOWN HEREON ARE AT 2-FOOT INTERVALS UNLESS OTHERWISE NOTED.
3. AS PER THE NATIONAL FLOOD INSURANCE PROGRAM FIRM MAP TITLED "BOROUGH OF BIG BEAVER, BEAVER COUNTY, PENNSYLVANIA" COMMUNITY PANEL NUMBER 422307, MAP NUMBER 42007C0052D EFFECTIVE DATE: AUGUST 17, 2015. A PORTION OF THE SUBJECT PROPERTY LIES WITHIN FLOOD ZONES AS SHOWN.
4. NO DISTURBANCE SHALL OCCUR WITHIN REGULATED ENVIRONMENTAL FEATURES OR ASSOCIATED BUFFERS EXCEPT AS SHOWN ON THE APPROVED PLANS AND AUTHORIZED BY APPLICABLE PERMITS.
5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPROVED PLANS, PROJECT SPECIFICATIONS, PERMIT CONDITIONS, AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, ORDINANCES, RULES, REGULATIONS, AND STANDARDS.
6. THESE GENERAL NOTES APPLY TO THE ENTIRE CIVIL PLAN SET. ADDITIONAL NOTES MAY BE PROVIDED ON INDIVIDUAL SHEETS AND SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS.
7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL REVIEW ALL PLANS, DETAILS, SPECIFICATIONS, REPORTS, APPROVALS, PERMITS, CONDITIONS OF APPROVAL, AND REFERENCED DOCUMENTS, AND SHALL CONFIRM THAT THE LATEST APPROVED VERSION OF ALL DOCUMENTS IS BEING USED FOR CONSTRUCTION.
8. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, APPROVALS, INSPECTION RELEASES, AND AUTHORIZATIONS PRIOR TO STARTING THE ASSOCIATED WORK. COPIES OF ALL REQUIRED PERMITS, APPROVALS, AND THE CURRENT APPROVED, SIGNED, AND SEALED PLAN SET SHALL BE KEPT ON SITE AT ALL TIMES DURING CONSTRUCTION.
9. THE CONTRACTOR SHALL NOTIFY THE OWNER, ATWELL LLC, AND APPLICABLE GOVERNING AGENCIES PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY PERMIT CONDITIONS AND APPLICABLE REGULATIONS.
10. THE CONTRACTOR SHALL COORDINATE AND ATTEND ALL REQUIRED PRE-CONSTRUCTION MEETINGS WITH THE OWNER, ATWELL LLC, GOVERNING AGENCIES, UTILITY PROVIDERS, AND OTHER REQUIRED PARTIES PRIOR TO COMMENCING WORK, AS REQUIRED.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH ALL SUBCONTRACTORS AND SHALL ENSURE THAT ALL SUBCONTRACTORS COMPLY WITH THE APPROVED PLANS, SPECIFICATIONS, PERMIT CONDITIONS, AND THESE NOTES.
12. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, GRADES, ELEVATIONS, UTILITY LOCATIONS, UTILITY INVERTS, STRUCTURES, PAVEMENTS, CURBS, SIDEWALKS, SITE FEATURES, AND LAYOUT REQUIREMENTS PRIOR TO ORDERING MATERIALS, FABRICATION, OR CONSTRUCTION.
13. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND ATWELL LLC IN WRITING OF ANY CONFLICTS, ERRORS, OMISSIONS, AMBIGUITIES, OR DISCREPANCIES BETWEEN THE PLANS, FIELD CONDITIONS, SPECIFICATIONS, REPORTS, OR OTHER CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT PROCEED WITH AFFECTED WORK UNTIL WRITTEN DIRECTION OR APPROVAL HAS BEEN PROVIDED BY THE APPROPRIATE PARTY.
14. THE CONTRACTOR SHALL NOT SCALE DRAWINGS. FIGURED DIMENSIONS, WRITTEN NOTES, AND SPECIFIED ELEVATIONS SHALL GOVERN OVER GRAPHIC REPRESENTATIONS.
15. WHERE NEW WORK MEETS EXISTING CONDITIONS, THE CONTRACTOR SHALL FIELD VERIFY EXISTING LOCATIONS AND ELEVATIONS AND SHALL TRANSITION PROPOSED IMPROVEMENTS SMOOTHLY TO MATCH EXISTING CONDITIONS UNLESS OTHERWISE SHOWN.
16. THE CONTRACTOR SHALL COORDINATE CIVIL PLANS WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, LANDSCAPE, AND OTHER PROJECT DOCUMENTS, AS APPLICABLE. THE CONTRACTOR SHALL REFER TO APPROVED ARCHITECTURAL AND BUILDING PLANS FOR EXACT BUILDING DIMENSIONS, ENTRY AND EXIT LOCATIONS, DOOR LOCATIONS, UTILITY ENTRANCE LOCATIONS, AND BUILDING-SPECIFIC REQUIREMENTS.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCING, PROCEDURES, SUPERVISION, AND JOB SITE SAFETY. ATWELL LLC IS NOT RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCING, PROCEDURES, JOB SITE SAFETY, OR THE CONTRACTOR'S COMPLIANCE WITH SAFETY REQUIREMENTS.
18. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OSHA REQUIREMENTS AND ALL OTHER APPLICABLE SAFETY REGULATIONS.
19. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TEMPORARY BARRICADES, FENCING, SIGNAGE, LIGHTING, TRAFFIC CONTROL DEVICES, PEDESTRIAN PROTECTION, SAFE ACCESS, AND OTHER TEMPORARY CONTROLS REQUIRED TO PROTECT THE PUBLIC, WORKERS, ADJACENT PROPERTIES, EXISTING IMPROVEMENTS, ROADWAYS, WALKWAYS, AND FACILITIES DURING CONSTRUCTION.
20. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, UTILITIES, PAVEMENT, CURB, SIDEWALK, LANDSCAPING, TREES, FENCING, SIGNAGE, LIGHTING, AND OTHER IMPROVEMENTS TO REMAIN. EXISTING DAMAGE SHALL BE DOCUMENTED PRIOR TO CONSTRUCTION AND REPORTED TO THE OWNER IN WRITING. DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO A CONDITION EQUAL TO OR BETTER THAN THE CONDITION EXISTING PRIOR TO CONSTRUCTION AND IN ACCORDANCE WITH APPLICABLE STANDARDS.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL INSTALLED WORK UNTIL FINAL ACCEPTANCE.
22. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION, DEMOLITION, EXCAVATION, UTILITY SHUTDOWN, RELOCATION, CONNECTION, ABANDONMENT, OR REMOVAL.
23. PRIOR TO EXCAVATION, THE CONTRACTOR SHALL CONTACT THE APPLICABLE UTILITY NOTIFICATION CENTER AND SHALL COMPLY WITH ALL UTILITY MARK-OUT REQUIREMENTS.
24. UTILITY INFORMATION SHOWN ON THE PLANS IS BASED ON AVAILABLE RECORDS AND FIELD INFORMATION WHERE AVAILABLE. THE LOCATION, SIZE, DEPTH, MATERIAL, AND CONDITION OF EXISTING UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
25. THE CONTRACTOR SHALL PERFORM TEST PITS BY HAND OR OTHER APPROVED SOFT-DIG METHODS AT ALL UTILITY CROSSINGS, CONNECTION POINTS, AND AREAS OF POTENTIAL CONFLICT WELL IN ADVANCE OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL CLEARANCES BETWEEN PROPOSED AND EXISTING UTILITIES PRIOR TO INSTALLATION.
26. IF UTILITY CLEARANCES DIFFER FROM THOSE SHOWN ON THE PLANS, IF CONFLICTS ARE IDENTIFIED, OR IF UNKNOWN, OMITTED, OR ADDITIONAL UTILITIES ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE OWNER, ATWELL LLC, AND THE AFFECTED UTILITY PROVIDER PRIOR TO PROCEEDING.
27. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ACTIVE UTILITIES TO REMAIN IN SERVICE THROUGHOUT CONSTRUCTION UNLESS SHUTDOWN HAS BEEN APPROVED AND COORDINATED IN ADVANCE WITH THE OWNER, AFFECTED UTILITY PROVIDERS, GOVERNING AGENCIES, AND AFFECTED USERS.
28. THE CONTRACTOR SHALL COORDINATE FINAL UTILITY SERVICE LOCATIONS, MATERIALS, DEPTHS, CONNECTIONS, METERING, VAULTS, VALVES, BACKFLOW PREVENTION, AND APPURTENANCES WITH THE APPLICABLE UTILITY PROVIDERS AND GOVERNING AGENCIES.
29. UTILITY POLES, OVERHEAD UTILITIES, AND UNDERGROUND UTILITIES SHALL BE BRACED, SUPPORTED, RELOCATED, OR PROTECTED AS REQUIRED BY THE UTILITY PROVIDER. THE CONTRACTOR SHALL COORDINATE THIS WORK PRIOR TO CONSTRUCTION.
30. THE CONTRACTOR SHALL MAINTAIN A RECORD SET OF PLANS ON SITE SHOWING ALL AS-INSTALLED UTILITIES, UTILITY DEVIATIONS, ABANDONED UTILITIES, CAPPED UTILITIES, RELOCATED UTILITIES, AND FIELD CHANGES. AS-BUILT OR RECORD DRAWINGS SHALL BE PREPARED AND SUBMITTED IN ACCORDANCE WITH PROJECT REQUIREMENTS, PERMIT CONDITIONS, AND GOVERNING AGENCY REQUIREMENTS.
31. ALL STORM DRAINAGE, STORMWATER MANAGEMENT, WATER, SANITARY SEWER, AND OTHER UTILITY WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH APPROVED PLANS, PROJECT SPECIFICATIONS, UTILITY PROVIDER REQUIREMENTS, AND APPLICABLE GOVERNING AGENCY STANDARDS.
32. SHOP DRAWINGS, MATERIAL CERTIFICATIONS, PRODUCT DATA, TEST REPORTS, AND OTHER SUBMITTALS SHALL BE PROVIDED WHERE REQUIRED BY THE CONTRACT DOCUMENTS, UTILITY PROVIDERS, OR GOVERNING AGENCIES. THE CONTRACTOR SHALL NOT INSTALL MATERIALS OR STRUCTURES REQUIRING APPROVAL UNTIL SUCH APPROVAL HAS BEEN OBTAINED.
33. MODIFICATIONS TO STANDARD DETAILS, STRUCTURES, OR MATERIALS SHALL BE APPROVED BY THE APPLICABLE GOVERNING AGENCY AND ATWELL LLC PRIOR TO INSTALLATION WHERE REQUIRED.
34. CONCRETE, ASPHALT, PIPE, STRUCTURES, CASTINGS, BACKFILL, BEDDING, AGGREGATE, AND OTHER MATERIALS SHALL MEET THE REQUIREMENTS OF THE APPROVED PLANS, PROJECT SPECIFICATIONS, AND APPLICABLE STANDARDS.
35. EXISTING MANHOLES, INLETS, VALVE BOXES, CLEANOUTS, UTILITY COVERS, AND OTHER STRUCTURE CASTINGS SHALL BE ADJUSTED TO MATCH PROPOSED FINISHED GRADES.
36. THE GEOTECHNICAL REPORT USED IN PREPARATION OF THESE PLANS WAS PREPARED BY GEO-TECHNOLOGY ASSOCIATES, INC., DATED JUNE 30, 2026, ENTITLED "GEOTECHNICAL ENGINEERING REPORT FOR STORMWATER MANAGEMENT". THE CONTRACTOR SHALL REVIEW AND COMPLY WITH THE REPORT, INCLUDING RECOMMENDATIONS FOR SUBGRADE PREPARATION, FILL, BACKFILL, COMPACTION, PAVEMENT SECTIONS, TRENCHING, GROUNDWATER, DRAINAGE, UNSUITABLE MATERIALS, AND CONSTRUCTION OBSERVATION. IN THE EVENT OF A CONFLICT BETWEEN THE APPROVED PLANS AND THE PROJECT GEOTECHNICAL REPORT, THE MORE STRINGENT REQUIREMENT SHALL APPLY UNLESS OTHERWISE DIRECTED IN WRITING BY THE OWNER AND GEOTECHNICAL ENGINEER.
37. ALL WORK SHALL COMPLY WITH THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL REPORT, IF PROVIDED. IF NO GEOTECHNICAL REPORT IS PROVIDED, THE CONTRACTOR SHALL OBTAIN APPROPRIATE GEOTECHNICAL GUIDANCE PRIOR TO EARTHWORK, PAVEMENT, FOUNDATION-RELATED SITE WORK, OR UTILITY BACKFILL. IN THE EVENT OF A CONFLICT BETWEEN THE PLANS AND THE GEOTECHNICAL REPORT, THE MORE STRINGENT REQUIREMENT SHALL APPLY UNLESS OTHERWISE DIRECTED IN WRITING BY THE OWNER AND GEOTECHNICAL ENGINEER. THE FOLLOWING IS RECOMMENDED:

37.1. STORMWATER MANAGEMENT FACILITIES - DESIGN NOTES

A. IF THE FIELD VERIFIED INFILTRATION RATES ARE EXCESSIVELY HIGH (GREATER THAN 6 INCHES PER HOUR) AND CATION EXCHANGE CAPACITY IS UNKNOWN OR IF BEDROCK IS ENCOUNTERED WITHIN THE REQUIRED LIMITING ZONE BUFFER:

- IF IN HIGHLY PERMEABLE SOILS: CONTACT GTA TO DETERMINE THE EXTENT OF THE HIGHLY PERMEABLE SOILS AN OVER-EXCAVATE THE MATERIALS TO THE DEPTH WHERE THE MATERIAL TYPE CHANGES OR A MAXIMUM DEPTH OF 2 FEET, WHICHEVER IS ENCOUNTERED FIRST.
- IF IN BEDROCK: OVER-EXCAVATE TO A DEPTH OF 2 FEET. REPLACE THE EXCAVATED SOILS WITH FINER GRAINED SOIL MEDIA APPROVED BY GTA. PLEASE REFER TO THE TABLE BELOW FOR GUIDANCE ON USDA SOIL CLASSIFICATIONS AND TYPICAL INFILTRATION RATES. ON-SITE, IMPORTED, OR BLENDED SOIL MAY BE UTILIZED.
- MATERIALS PLACED IN NON-STRUCTURAL AREAS SHOULD NOT BE TRACKED ON TO THE EXTENT FEASIBLE.
- MATERIALS PLACED IN STRUCTURAL AREAS SHOULD BE COMPACTED IN ACCORDANCE WITH STRUCTURAL FILL SPECIFICATIONS. CONTACT GTA FOR SITE SPECIFIC RECOMMENDATIONS.
- INFILTRATION TESTING OF THE NEW SOIL MEDIA SHOULD BE CONDUCTED WITHIN THE FACILITY OR IN TEST STRIPS TO VERIFY THE FIELD INFILTRATION RATE.

B. IF THE FIELD VERIFIED INFILTRATION RATES ARE EXCESSIVELY LOW (LESS THAN 0.1 IN/HR):

- CONTACT GTA TO DETERMINE THE EXTENT OF THE RESTRICTIVE SOILS.
- OVER-EXCAVATE THE MATERIALS TO THE DEPTH WHERE THE MATERIAL TYPE CHANGES OR A MAXIMUM DEPTH OF 2 FEET, WHICHEVER IS ENCOUNTERED FIRST.
- REPLACE THE EXCAVATED MATERIAL WITH MORE COARSELY GRAINED MATERIALS APPROVED BY GTA. THE FINAL MIX DESIGN WILL BE DEPENDENT ON THE DESIGN RATE IN A GIVEN FACILITY. SUITABLE SOIL MIXTURES MAY CONSIST OF MATERIALS BLENDED BY VOLUME RATIOS AS DETERMINED BY GTA. ON-SITE, IMPORTED, OR BLENDED SOIL MAY BE UTILIZED.
- MATERIALS PLACED IN NON-STRUCTURAL AREAS SHOULD NOT BE TRACKED ON TO THE EXTENT FEASIBLE.
- MATERIALS PLACED IN STRUCTURAL AREAS SHOULD BE COMPACTED IN ACCORDANCE WITH STRUCTURAL FILL SPECIFICATIONS. CONTACT GTA FOR SITE SPECIFIC RECOMMENDATIONS.
- INFILTRATION TESTING OF THE NEW SOIL MEDIA SHOULD BE CONDUCTED WITHIN THE FACILITY OR IN TEST STRIPS TO VERIFY THE FIELD INFILTRATION RATE.

C. IF REDOXIMORPHIC FEATURES (SOIL MOTTLING AND COLORATION PATTERNS FORMED BY THE REDUCTION OF IRON AND/OR MANGANESE FROM SATURATED CONDITIONS IN THE SOIL), GROUNDWATER, OR SEEPS ARE ENCOUNTERED, PLEASE CONTACT GTA FOR EVALUATION.

37.2 SITE LAYOUT RECOMMENDATIONS:

WE GENERALLY RECOMMEND THE PLACEMENT OF SWM FACILITIES INCLUDE A MINIMUM BUFFER OF 25 FEET FROM ADJACENT EDGE OF THE SWM FACILITY TO THE OUTSIDE OF ADJACENT BUILDING FOUNDATION, WALL, OR SLOPE (5H:1V OR GREATER). IF DESIRED, GTA CAN REVIEW THE FINAL PLANS TO DETERMINE IF A SMALLER BUFFER IS ACCEPTABLE ON A LOCATION-SPECIFIC BASIS. A LESSER BUFFER WILL GENERALLY NOT NEGATIVELY AFFECT THE FUNCTIONALITY OF THE SWM FACILITY, BUT THE INFLUX OF WATER FROM THE ADJACENT SWM FACILITY MAY NEGATIVELY IMPACT THE ADJACENT BUILDING, WALL, OR SLOPE, SPECIFICALLY THE BEARING CAPACITY AND GLOBAL STABILITY. THE ALLOWABLE BUFFER DISTANCE IS HIGHLY DEPENDENT ON-SITE SPECIFIC CONSTRAINTS INCLUDING BUT NOT LIMITED TO, STRUCTURAL LOADING, SOIL TYPE, INFILTRATION RATE, BEDROCK TYPE, BOTTOM OF FOOTING ELEVATION, AND BOTTOM OF SWM FACILITY ELEVATION.

37.3 CONSTRUCTION RECOMMENDATIONS:

INFILTRATION RATES CAN BE HIGHLY DEPENDENT ON THE SECONDARY POROSITY CREATED BY THE BIOLOGICAL ACTIVITY (ROOTS AND BURROWS), DESICCATION CRACKS, AND WEATHERED ROCK FRACTURING. THESE DELICATE SECONDARY FEATURES ARE DIFFICULT TO PRESERVE DURING CONSTRUCTION. THEREFORE, IT IS LIKELY THAT THE INFILTRATION FACILITIES MAY FUNCTION DIFFERENTLY THAN PLANNED, DEPENDING UPON LOCALIZED SUBSURFACE CONDITIONS, CARE TAKEN DURING CONSTRUCTION, AND THE PASSAGE OF TIME.

THE NATURAL SUBGRADE CONDITIONS MUST BE CAREFULLY PROTECTED FROM COMPACTION DURING CONSTRUCTION. EXCAVATION OF THE FINAL 2 FEET ABOVE THE BOTTOM OF THE FACILITY SHOULD TAKE PLACE FROM THE PERIMETER OF THE FACILITY WITH A HYDRAULIC EXCAVATOR OR LOW GROUND PRESSURE EQUIPMENT, IS POSSIBLE. DESIGN AND CONSTRUCTION MEASURES SHOULD BE PROVIDED TO LIMIT DISTURBANCE AND COMPACTION OF THE SUBGRADES ANDSOIL EROSION INTO THE FACILITIES, AND THUS THE POTENTIAL TO REDUCE THE INFILTRATION CHARACTERISTICS OF THE SURFACE SOILS.

AT THE TIME OF CONSTRUCTION, IT IS RECOMMENDED THE FACILITY SUBGRADE CONDITIONS BE VERIFIED BY A QUALIFIED TESTING AGENCY. HAND PROBING TO OBSERVE THE ABSENCE OF PRESENCE OF BEDROCK WITHIN THE NECESSARY BUFFER BELOW THE FACILITY SUBGRADE SHOULD BE COMPLETED IN A GRID PATTERN ACROSS THE FACILITY.

IT IS OUR PROFESSIONAL OPINION THAT THE DESIGN RATES BE VERIFIED AT THE TIME OF CONSTRUCTION BY A QUALIFIED TESTING AGENCY.

37.4 LIMITATIONS:

THIS REPORT, INCLUDING ALL SUPPORTING LOGS, FIELD DATA, FIELD NOTES, LABORATORY TEST DATA, CALCULATIONS, ESTIMATES AND OTHER DOCUMENTS PREPARED BY GTA IN CONNECTION WITH THIS PROJECT HAVE BEEN PREPARED FOR THE EXCLUSIVE USE OF ATWELL PURSUANT TO AGREEMENTS BETWEEN GTA AND ATWELL IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICE. ALL TERMS AND CONDITIONS SET FORTH IN THE AGREEMENT AND THE GENERAL PROVISIONS ATTACHED THERETO ARE INCORPORATED HEREIN BY REFERENCE. NO WARRANTY, EXPRESS OR IMPLIED, IS MADE HEREIN. USE AND REPRODUCTION OF THIS REPORT BY ANY OTHER PERSON WITHOUT THE EXPRESSED WRITTEN PERMISSION OF GTA AND ATWELL IS UNAUTHORIZED AND SUCH USE IS AT THE SOLE RISK OF THE USER.

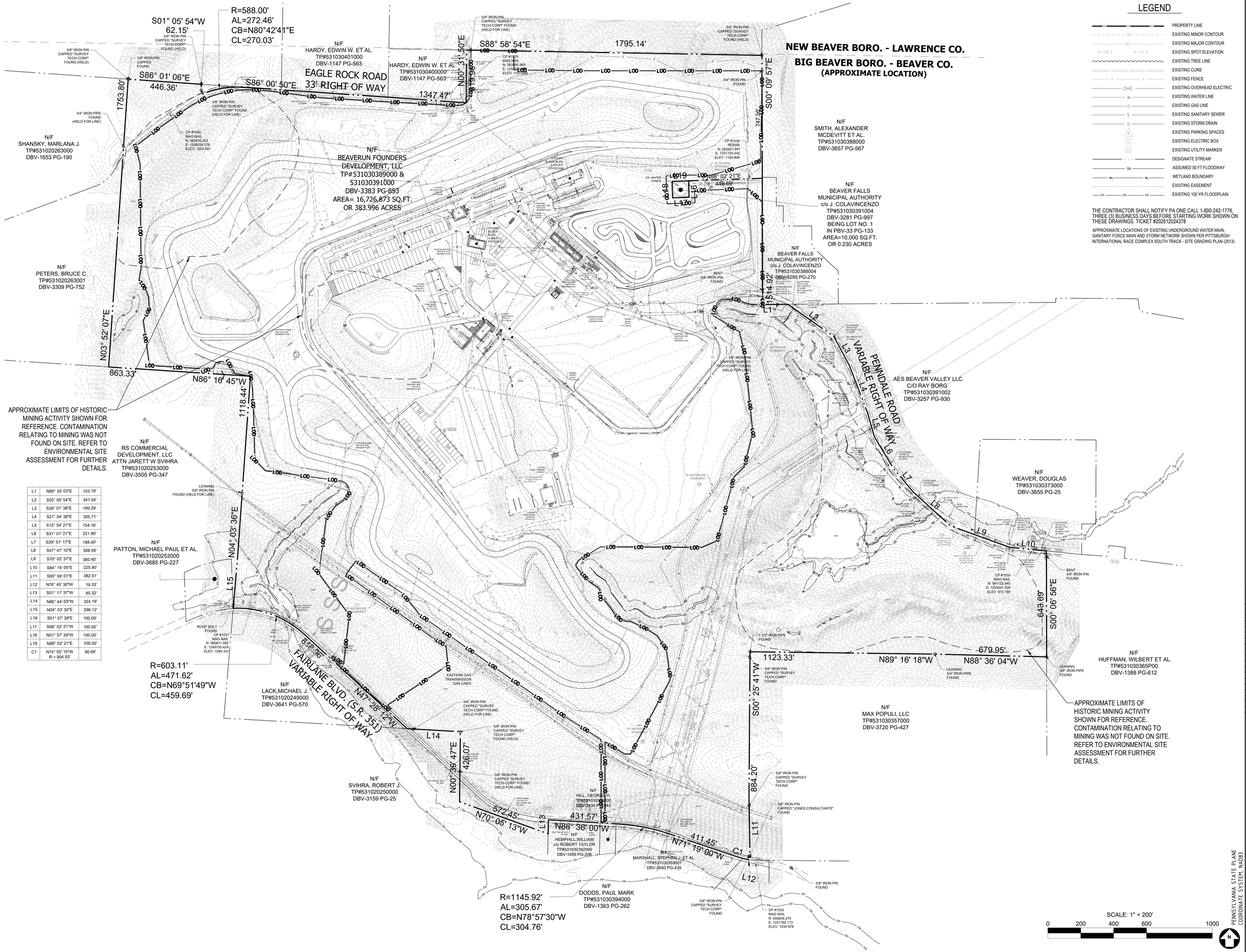
THE ANALYSIS AND RECOMMENDATIONS CONTAINED IN THIS REPORT ARE BASED ON THE DATA OBTAINED FROM LIMITED OBSERVATION AND TESTING OF THE ENCOUNTERED MATERIALS. EXPLORED LOCATIONS INDICATE SOIL CONDITIONS ONLY AT SPECIFIC LOCATIONS AND TIMES AND ONLY AT THE DEPTHS PENETRATED. THEY DO NOT NECESSARILY REFLECT STRATA OR VARIATIONS THAT MAY EXIST BETWEEN TEST LOCATIONS. CONSEQUENTLY, THE ANALYSIS AND RECOMMENDATIONS MUST BE CONSIDERED PRELIMINARY UNTIL THE SUBSURFACE CONDITIONS CAN BE VERIFIED BY DIRECT OBSERVATION AT THE TIME OF CONSTRUCTION. IF VARIATIONS OF SUBSURFACE CONDITIONS FROM THOSE DESCRIBED IN THIS REPORT ARE NOTED DURING CONSTRUCTION, RECOMMENDATIONS IN THIS REPORT MAY NEED TO BE REEVALUATED.

IN THE EVENT THAT ANY CHANGES IN THE NATURE, DESIGN, OR LOCATION OF THE FACILITIES ARE PLANNED, THE CONCLUSIONS AND RECOMMENDATIONS CONTAINED IN THIS REPORT SHOULD NOT BE CONSIDERED VALID UNLESS THE CHANGES ARE REVIEWED AND CONCLUSIONS OF THIS REPORT ARE VERIFIED IN WRITING. GTA IS NOT RESPONSIBLE FOR ANY CLAIMS, DAMAGES, OR LIABILITY ASSOCIATED WITH INTERPRETATION OF SUBSURFACE DATA OR REUSE OF THE SUBSURFACE DATA OR ENGINEERING ANALYSIS WITHOUT THE EXPRESSED WRITTEN AUTHORIZATION OF GEO-TECHNOLOGY ASSOCIATES, INC.

THE SCOPE OF OUR SERVICES FOR THIS GEOTECHNICAL EXPLORATION DID NOT INCLUDE ANY ENVIRONMENTAL ASSESSMENT OR INVESTIGATION FOR THE PRESENCE OR ABSENCE OF WETLANDS, OR HAZARDOUS OR TOXIC MATERIALS IN THE SOIL, SURFACE WATER, GROUNDWATER OR AIR, ON OR BELOW OR AROUND THIS SITE. ANY STATEMENTS IN THIS REPORT OR ON THE LOGS REGARDING ODORS OR UNUSUAL OR SUSPICIOUS ITEMS OR CONDITIONS OBSERVED ARE STRICTLY FOR THE INFORMATION OF OUR CLIENT.

THIS REPORT AND THE ATTACHED LOGS ARE INSTRUMENTS OF SERVICE. THE SUBJECT MATTER OF THIS REPORT IS LIMITED TO THE FACTS AND MATTERS STATED HEREIN. ABSENCE OF A REFERENCE TO ANY OTHER CONDITIONS OR SUBJECT MATTER SHALL NOT BE CONSTRUED BY THE READER TO IMPLY APPROVAL BY THE WRITER.

38. ALL WORK SHALL COMPLY WITH THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL REPORT, IF PROVIDED. IF NO GEOTECHNICAL REPORT IS PROVIDED, THE CONTRACTOR SHALL OBTAIN APPROPRIATE GEOTECHNICAL GUIDANCE PRIOR TO EARTHWORK, PAVEMENT, FOUNDATION-RELATED SITE WORK, OR UTILITY BACKFILL. IN THE EVENT OF A CONFLICT BETWEEN THE PLANS AND THE GEOTECHNICAL REPORT, THE MORE STRINGENT REQUIREMENT SHALL APPLY UNLESS OTHERWISE DIRECTED IN WRITING BY THE OWNER AND GEOTECHNICAL ENGINEER.
39. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE SUITABILITY OF ONSITE MATERIALS FOR REUSE AS FILL AND FOR REMOVING AND REPLACING UNSUITABLE MATERIALS IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND APPLICABLE SPECIFICATIONS.
40. FILL, BACKFILL, SUBGRADE PREPARATION, COMPACTION, MOISTURE CONDITIONING, LIFT THICKNESS, AND TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT, PROJECT SPECIFICATIONS, AND APPLICABLE AGENCY REQUIREMENTS.
41. COMPACTION TESTING, MATERIAL TESTING, GEOTECHNICAL INSPECTIONS, REPORTS, AND CERTIFICATIONS SHALL BE PERFORMED OR PREPARED BY A QUALIFIED GEOTECHNICAL ENGINEER OR TESTING AGENCY WHERE REQUIRED AND SHALL BE SUBMITTED IN ACCORDANCE WITH PROJECT SPECIFICATIONS, OWNER REQUIREMENTS, AND GOVERNING AGENCY REQUIREMENTS.
42. THE CONTRACTOR SHALL IMPORT FILL OR EXPORT EXCESS MATERIAL AS NECESSARY TO ACHIEVE THE PROPOSED GRADES, PROFILES, PAVEMENT SECTIONS, AND UTILITY INSTALLATIONS. OFFSITE BORROW OR SPOIL AREAS SHALL BE APPROVED, PERMITTED, AND STABILIZED IN ACCORDANCE WITH APPLICABLE REQUIREMENTS.
43. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE DURING ALL PHASES OF CONSTRUCTION AND SHALL PREVENT PONDING, EROSION, SEDIMENT TRANSPORT, OR DAMAGE TO ADJACENT PROPERTIES. EXISTING DRAINAGE PATTERNS SHALL NOT BE ALTERED EXCEPT AS SHOWN ON THE APPROVED PLANS OR AS OTHERWISE APPROVED BY THE GOVERNING AGENCY.
44. ALL DISTURBED AREAS SHALL BE STABILIZED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN, SWPPP, PROJECT SPECIFICATIONS, AND APPLICABLE REGULATORY REQUIREMENTS.
45. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO LAND DISTURBANCE AND SHALL BE INSPECTED, MAINTAINED, REPAIRED, REPLACED, ADJUSTED, AND KEPT OPERATIONAL UNTIL CONTRIBUTING AREAS ARE PERMANENTLY STABILIZED. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES IF FIELD CONDITIONS REQUIRE ADDITIONAL PROTECTION OR IF DIRECTED BY THE GOVERNING AGENCY, OWNER, OR ENGINEER.
46. NO EROSION OR SEDIMENT CONTROL DEVICE SHALL BE REMOVED UNTIL THE AREA DRAINING TO THE DEVICE HAS BEEN PERMANENTLY STABILIZED AND REMOVAL HAS BEEN APPROVED WHERE REQUIRED.
47. THE CONTRACTOR SHALL PREVENT TRACKING OF MUD, SEDIMENT, STONE, DEBRIS, OR CONSTRUCTION MATERIALS ONTO PUBLIC OR PRIVATE ROADS. TRACKED MATERIAL SHALL BE REMOVED IMMEDIATELY.
48. THE CONTRACTOR SHALL MAINTAIN AN ONSITE STORMWATER POLLUTION PREVENTION PLAN WHERE REQUIRED AND SHALL COMPLY WITH ALL INSPECTION, LOGGING, CORRECTIVE ACTION, AND REPORTING REQUIREMENTS. THE CONTRACTOR SHALL IDENTIFY AND MANAGE LOCATIONS FOR WASTE CONTAINERS, FUEL STORAGE, CONCRETE WASHOUT, CHEMICAL STORAGE, EQUIPMENT MAINTENANCE, AND OTHER POTENTIAL POLLUTANT SOURCES IN ACCORDANCE WITH THE APPROVED SWPPP AND APPLICABLE REQUIREMENTS.
49. DEMOLITION, CLEARING, GRUBBING, AND REMOVAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPROVED PLANS, PROJECT SPECIFICATIONS, AND APPLICABLE REGULATIONS. DEMOLITION PLANS ARE INTENDED TO IDENTIFY GENERAL ITEMS TO BE REMOVED OR TO REMAIN, AND THE CONTRACTOR SHALL INCLUDE ALL INCIDENTAL REMOVALS NECESSARY TO COMPLETE THE PROPOSED IMPROVEMENTS.
50. THE CONTRACTOR SHALL COORDINATE UTILITY DISCONNECTIONS, CAPPING, ABANDONMENT, AND REMOVALS WITH THE APPLICABLE UTILITY PROVIDERS PRIOR TO DEMOLITION. EXISTING UTILITIES TO BE ABANDONED SHALL BE DISCONNECTED, CAPPED, REMOVED, OR ABANDONED IN PLACE IN ACCORDANCE WITH UTILITY PROVIDER AND GOVERNING AGENCY REQUIREMENTS.
51. DEBRIS, RUBBISH, DEMOLITION MATERIALS, UNSUITABLE MATERIAL, EXCESS SOIL, AND CONSTRUCTION WASTE SHALL NOT BE BURIED ON SITE AND SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT APPROVED OFFSITE FACILITIES IN ACCORDANCE WITH APPLICABLE REQUIREMENTS.
52. THE CONTRACTOR SHALL MAINTAIN RECORDS DOCUMENTING PROPER DISPOSAL OF DEMOLITION AND CONSTRUCTION WASTE AND SHALL PROVIDE SUCH RECORDS TO THE OWNER UPON REQUEST.
53. IF HAZARDOUS MATERIALS, CONTAMINATED SOILS, UNDERGROUND STORAGE TANKS, OR SUSPECT MATERIALS ARE ENCOUNTERED, THE CONTRACTOR SHALL STOP WORK IN THE AFFECTED AREA AND IMMEDIATELY NOTIFY THE OWNER. HAZARDOUS MATERIALS SHALL BE HANDLED, REMOVED, TRANSPORTED, AND DISPOSED OF ONLY IN ACCORDANCE WITH APPLICABLE LAWS AND BY PROPERLY LICENSED PERSONNEL.
54. THE CONTRACTOR SHALL PROVIDE DUST CONTROL, NOISE CONTROL, AND OTHER TEMPORARY CONTROLS AS REQUIRED TO MINIMIZE IMPACTS TO ADJACENT PROPERTIES, ROADWAYS, AND THE PUBLIC.
55. PAVEMENT, CURB, SIDEWALK, AND OTHER HARD SURFACES TO BE REMOVED SHALL BE SAWCUT IN STRAIGHT, NEAT LINES UNLESS OTHERWISE SHOWN.
53. TRAFFIC CONTROL FOR WORK AFFECTING PUBLIC OR PRIVATE TRAVELWAYS SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR IN ACCORDANCE WITH THE MUTCD, APPROVED TRAFFIC CONTROL PLANS, AND APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.
54. THE CONTRACTOR SHALL REMOVE AND REPLACE OR RESTORE ANY PAVEMENT MARKINGS, SIGNS, TRAFFIC CONTROL DEVICES, SIDEWALKS, CURBS, RAMPS, OR OTHER TRANSPORTATION FEATURES DAMAGED OR DISTURBED DURING CONSTRUCTION.
55. ALL SIGNS, PAVEMENT MARKINGS, AND TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS, MUTCD, AND APPLICABLE GOVERNING AGENCY REQUIREMENTS.
56. ACCESSIBLE ROUTES, RAMPS, CURB RAMPS, PARKING SPACES, ACCESS AISLES, LANDINGS, DOORWAY APPROACHES, CROSS SLOPES, RUNNING SLOPES, SURFACE OPENINGS, AND GRADE TRANSITIONS SHALL COMPLY WITH APPLICABLE ADA, ACCESSIBILITY, BUILDING CODE, AND GOVERNING AGENCY REQUIREMENTS.
57. THE CONTRACTOR SHALL VERIFY FORMS, GRADES, AND SLOPES FOR ACCESSIBLE IMPROVEMENTS PRIOR TO PLACING CONCRETE OR PAVEMENT. NONCONFORMING WORK SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE UNLESS OTHERWISE DIRECTED BY THE OWNER.
58. LIGHTING, ELECTRICAL, AND COMMUNICATIONS WORK SHOWN ON CIVIL PLANS IS SCHEMATIC UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL COORDINATE FINAL LOCATIONS OF LIGHT POLES, UTILITY POLES, SIGNS, DRAINAGE STRUCTURES, UTILITIES, CONDUIT, WIRING, SERVICE POINTS, CONTROLS, POWER REQUIREMENTS, AND OTHER APPURTENANCES WITH THE ELECTRICAL PLANS, UTILITY PROVIDERS, AND APPLICABLE CODES TO AVOID CONFLICTS.
59. THE CONTRACTOR SHALL NOTIFY THE OWNER AND ATWELL LLC IN WRITING OF PROPOSED FIELD CHANGES OR DEVIATIONS FROM THE APPROVED PLANS PRIOR TO IMPLEMENTING SUCH CHANGES. CHANGES TO APPROVED PLANS MAY REQUIRE REVIEW AND APPROVAL BY THE OWNER, ATWELL LLC, UTILITY PROVIDERS, AND GOVERNING AGENCIES PRIOR TO CONSTRUCTION.
60. FAILURE TO SPECIFICALLY IDENTIFY AN ITEM OF WORK THAT IS REASONABLY REQUIR



L1	N89° 35' 03"E	153.19'
L2	S55° 05' 54"E	341.54'
L3	S28° 01' 38"E	199.29'
L4	S21° 04' 38"E	305.71'
L5	S15° 54' 21"E	154.18'
L6	S31° 01' 21"E	221.90'
L7	S39° 51' 17"E	188.40'
L8	S47° 47' 10"E	308.59'
L9	S70° 02' 37"E	380.40'
L10	S84° 14' 05"E	225.90'
L11	S00° 59' 01"E	382.51'
L12	N76° 45' 30"W	19.33'
L13	S01° 11' 37"W	85.32'
L14	N86° 44' 03"W	324.19'
L15	N04° 53' 30"E	296.12'
L16	S01° 57' 39"E	100.00'
L17	S88° 02' 21"W	100.00'
L18	N01° 57' 39"W	100.00'
L19	N88° 02' 21"E	100.00'
C1	N74° 02' 15"W R = 954.93'	90.66'

LEGEND

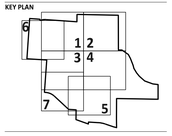
- PROPERTY LINE
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING SPOT ELEVATION
- EXISTING TREE LINE
- EXISTING CURB
- EXISTING FENCE
- EXISTING OVERHEAD ELECTRIC
- EXISTING WATER LINE
- EXISTING GAS LINE
- EXISTING SANITARY SEWER
- EXISTING STORM DRAIN
- EXISTING PARKING SPACES
- EXISTING ELECTRIC BOX
- EXISTING UTILITY MARKER
- DESIGNATE STREAM
- ASSUMED 50 FT FLOODWAY
- WETLAND BOUNDARY
- EXISTING EASEMENT
- EXISTING 100 YR FLOODPLAIN

THE CONTRACTOR SHALL NOTIFY PA ONE CALL 1-800-242-1776, THREE (3) BUSINESS DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TICKET #20261204378

APPROXIMATE LOCATIONS OF EXISTING UNDERGROUND WATER MAIN, SANITARY FORCE MAIN AND STORM NETWORK SHOWN PER PITTSBURGH INTERNATIONAL RACE COMPLEX SOUTH TRACK - SITE GRADING PLAN (2013)

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
B	60% Review	06/08/26
C	90% Review	06/22/26
D	ISSUED FOR PERMIT	07/07/26

DESIGN TEAM PRIME
ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSBURG, KY 40731
ISO: 430.2000

STAMP
COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

OWNER
switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL
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DRAWING INFORMATION
DATE: JUNE 2026
PROJECT NUMBER: 25010482
DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

SHEET TITLE
EXISTING CONDITIONS PLAN

SHEET NUMBER
C100

PROJECT INFORMATION
SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

EAGLE ROCK ROAD
33' RIGHT OF WAY

PENNDALE ROAD
VARIABLE RIGHT OF WAY

FAIRLANE BLVD. (S.R. 351)
VARIABLE RIGHT OF WAY

25' WATERLINE EASEMENT

Slopes Table							
Number	Minimum Slope	Maximum Slope	Color	AREA (SF)	AREA (AC)	MAXIMUM ALLOWABLE DISTURBANCE	PROPOSED STEEP SLOPE DISTURBANCE
1	15.00%	24.99%		2,713,101	62.28	80%	11.4%
2	25.00%	39.99%		2,320,675	53.28	60%	11.4%
3	40.00%	100.00%		1,218,489	27.97	*	0%

* DISTURBANCE ALLOWED ONLY BY VARIANCE

LEGEND

- PROPERTY LINE
- SLOPES 15-25%
- SLOPES 15-25% - WITHIN LOD
- SLOPES 25-40%
- SLOPES 25-40% - WITHIN LOD
- SLOPES 40%+
- SLOPES 40%+ - WITHIN LOD

SCALE: 1" = 200'

0 200 400 600 1000

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELVILLE, MD 20721
SDVOSB

STAMP

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453

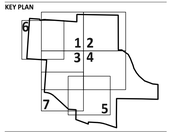
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	90% Review	05/26/26
B	90% Review	06/08/26
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OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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DRAWING INFORMATION

DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

STEEP SLOPES EXHIBIT

SHEET NUMBER

C101

NEW BEAVER BORO. - LAWRENCE CO.

BIG BEAVER BORO. - BEAVER CO.
(APPROXIMATE LOCATION)

LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- LIMIT OF DISTURBANCE
- BOUNDARY OF EXISTING FEATURES TBR (TO BE REMOVED)
- EXISTING TREE LINE
- PROPOSED TREE LINE
- EXISTING CURB
- EXISTING FENCE TO BE REMOVED
- EXISTING FENCE TO REMAIN
- EXISTING OVERHEAD ELECTRIC
- EXISTING PARKING SPACES
- EXISTING ELECTRIC BOX
- EXISTING UTILITY MARKER
- REGULATED STREAM (CENTERLINE)
- ASSUMED FLOODWAY BUFFER
- NONTIDAL WETLAND
- EXISTING EASEMENT
- EXISTING FLOODPLAIN
- FLOODPLAIN BUFFER
- EXISTING FEATURE TO BE REMOVED

THE CONTRACTOR SHALL NOTIFY PA ONE CALL 1-800-242-1776, THREE (3) BUSINESS DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TICKET #202612024378

DEMOLITION NOTES:

EXTENTS OF UNDERGROUND UTILITIES SHOWN PER ALTA PREPARED BY KEYSTONE SURVEYING & MAPPING INC., DATED: 10/28/2025, FILE NUMBER: PAFN25-4582 MM, DRAWINGS #3 - #7.

UTILITIES TO BE CUT AND CAPPED AND ABANDONED IN PLACE.

RED FEATURES ON SITE INTERIOR (GUARDRAILS, UTILITIES, ETC) TO BE REMOVED.

CONTRACTORS TO NOT DISTURB WITHIN EXISTING FLOODPLAIN OR FLOODWAYS. IF REQUIRED, CONTRACTOR TO NOTIFY ENGINEER PRIOR TO DISTURBING WITHIN THESE LIMITS.

N/F
SHANSKY, MARLANA J.
TP#531020263000
DBV-1653 PG-190

N/F
PETERS, BRUCE C.
TP#531020263001
DBV-3309 PG-752

N/F
RS COMMERCIAL DEVELOPMENT, LLC
ATTN JARETT W SVIHRA
TP#531020253000
DBV-3505 PG-347

N/F
PATTON, MICHAEL PAUL ET AL.
TP#531020252000
DBV-3685 PG-227

N/F
LACK,MICHAEL J.
TP#531020249000
DBV-3641 PG-570

N/F
SVIHRA, ROBERT J.
TP#531020250000
DBV-3159 PG-25

N/F
HARDY, EDWIN W. ET AL.
TP#531030401000
DBV-1147 PG-563

EAGLE ROCK ROAD
33' RIGHT OF WAY

N/F
HARDY, EDWIN W. ET AL.
TP#531030400000
DBV-1147 PG-563

N/F
BEAVERUN FOUNDERS DEVELOPMENT, LLC
TP#531030389000 &
531030391000
DBV-3383 PG-853
AREA= 16,726,873 SQ.FT.
OR 383.996 ACRES

N/F
SMITH, ALEXANDER
MCDEVITT ET AL.
TP#531030388000
DBV-3657 PG-567

N/F
BEAVER FALLS MUNICIPAL AUTHORITY
c/o J. COLAVINCENZO
TP#531030391004
DBV-3281 PG-997
BEING LOT NO. 1
IN PBV-33 PG-133
AREA=10,000 SQ.FT.
OR 0.230 ACRES

N/F
BEAVER FALLS MUNICIPAL AUTHORITY
c/o J. COLAVINCENZO
TP#531030388004
DBV-3295 PG-270

N/F
AES BEAVER VALLEY LLC
C/O RAY BORG
TP#531030391002
DBV-3257 PG-930

N/F
WEAVER, DOUGLAS
TP#531030373000
DBV-3655 PG-25

N/F
HUFFMAN, WILBERT ET AL.
TP#531030365P00
DBV-1388 PG-612

N/F
MAX POPULI, LLC
TP#531030357000
DBV-3720 PG-427

N/F
HILL, GEORGE H.
TP#531030392000
DBV-3435 PG-943

N/F
HEMPHILL,WILLIAM
c/o ROBERT TAYLOR
TP#531030392000
DBV-1099 PG-208

N/F
MARSHALL, STEPHEN J. ET AL.
TP#531030393000
DBV-3690 PG-439

N/F
DODDS, PAUL MARK
TP#531030394000
DBV-1363 PG-262

L1	N89° 35' 03"E	153.19'
L2	S55° 05' 54"E	341.54'
L3	S28° 01' 38"E	199.29'
L4	S21° 04' 38"E	305.71'
L5	S15° 54' 21"E	154.18'
L6	S31° 01' 21"E	221.90'
L7	S39° 51' 17"E	188.40'
L8	S47° 47' 10"E	308.59'
L9	S70° 02' 37"E	380.40'
L10	S84° 14' 05"E	225.90'
L11	S00° 59' 01"E	382.51'
L12	N76° 45' 30"W	19.33'
L13	S01° 11' 37"W	85.32'
L14	N86° 44' 03"W	324.19'
L15	N04° 53' 30"E	296.12'
L16	S01° 57' 39"E	100.00'
L17	S88° 02' 21"W	100.00'
L18	N01° 57' 39"W	100.00'
L19	N88° 02' 21"E	100.00'
C1	N74° 02' 15"W R = 954.93'	90.66'

R=603.11'
AL=471.62'
CB=N69°51'49"W
CL=459.69'

R=1145.92'
AL=305.67'
CB=N78°57'30"W
CL=304.76'

SCALE: 1" = 200'
0 200 400 600 1000

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSBURG, 20721
301.430.2000

STAMP

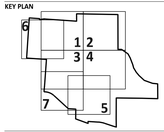
COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076453
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
B	60% Review	06/08/26
C	90% Review	06/22/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

THIS DOCUMENT CONSTITUTES THE CONFIDENTIAL AND PROPRIETARY INFORMATION OF SWITCH. NOT TO BE SHARED, MODIFIED, OR DUPLICATED WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF SWITCH.

DRAWING INFORMATION

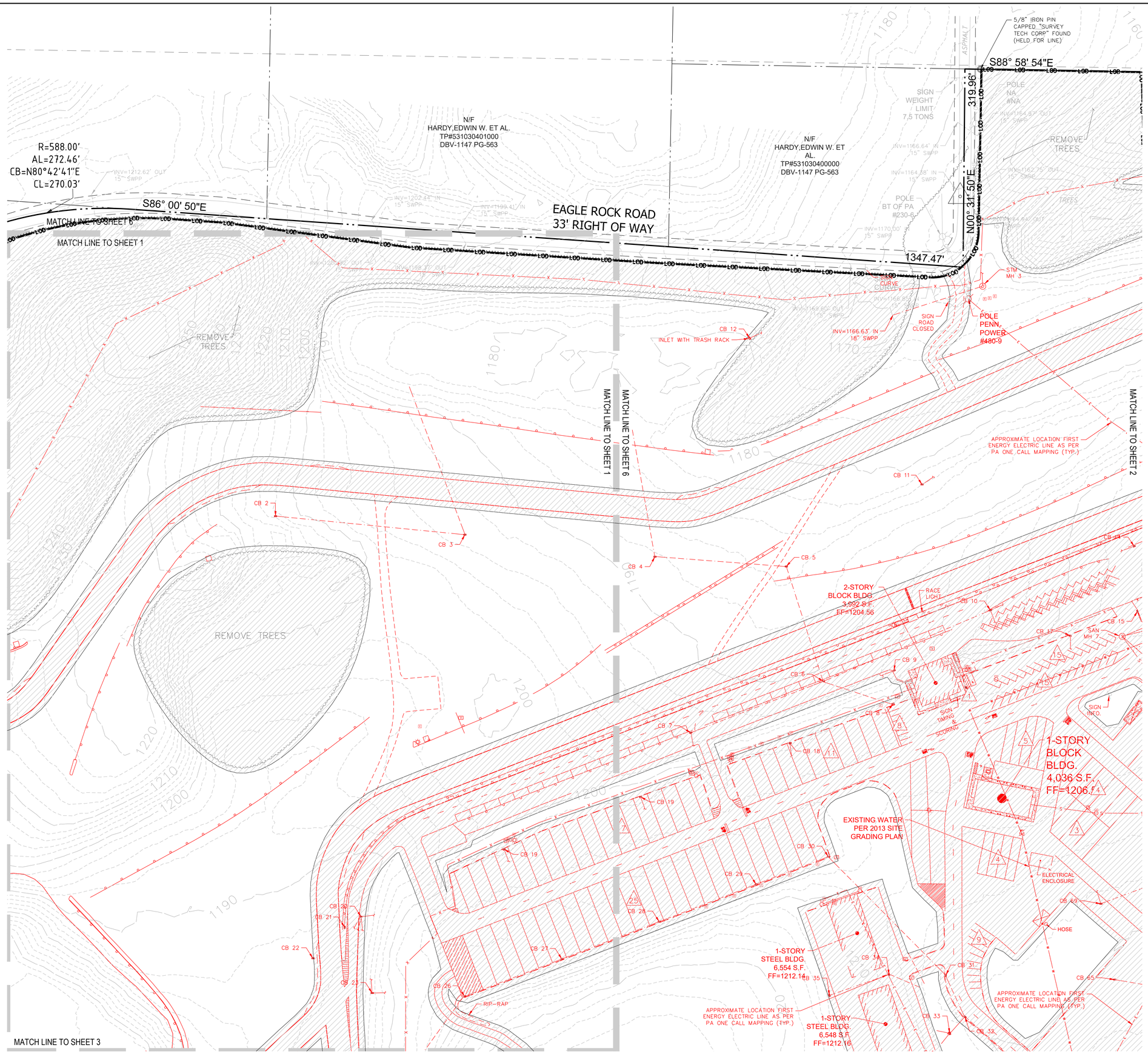
DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

OVERALL DEMOLITION PLAN

SHEET NUMBER

C110



LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- LIMIT OF DISTURBANCE
- BOUNDARY OF EXISTING FEATURES TBR (TO BE REMOVED)
- EXISTING TREE LINE
- PROPOSED TREE LINE
- EXISTING CURB
- EXISTING FENCE TO BE REMOVED
- EXISTING FENCE TO REMAIN
- EXISTING OVERHEAD ELECTRIC
- PARKING SPACES
- ELECTRIC BOX
- UTILITY MARKER
- REGULATED STREAM
- ASSUMED FLOODWAY BUFFER
- NONTIDAL WETLAND
- EXISTING EASEMENT
- EXISTING FLOODPLAIN
- FLOODPLAIN BUFFER
- EXISTING FEATURE TO BE REMOVED

THE CONTRACTOR SHALL NOTIFY PA ONE CALL 1-800-242-1776, THREE (3) BUSINESS DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TICKET #20261204378

DEMOLITION NOTES:

EXTENTS OF UNDERGROUND UTILITIES SHOWN PER ALTA PREPARED BY KEYSTONE SURVEYING & MAPPING INC., DATED: 10/28/2025, FILE NUMBER: PAFN25-4582 MM, DRAWINGS #3 - #7.

UTILITIES TO BE CUT AND CAPPED AND ABANDONED IN PLACE.

RED FEATURES ON SITE INTERIOR (GUARDRAILS, UTILITIES, ETC) TO BE REMOVED.

CONTRACTORS TO NOT DISTURB WITHIN EXISTING FLOODPLAIN OR FLOODWAYS. IF REQUIRED, CONTRACTOR TO NOTIFY ENGINEER PRIOR TO DISTURBING WITHIN THESE LIMITS.

SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE
COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITHCELLVILLE, MD 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453

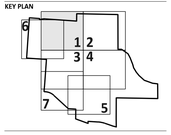
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
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OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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DRAWING INFORMATION

DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

DEMOLITION PLAN

SHEET NUMBER

C111

LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- LIMIT OF DISTURBANCE
- BOUNDARY OF EXISTING FEATURES TBR (TO BE REMOVED)
- EXISTING TREE LINE
- PROPOSED TREE LINE
- EXISTING CURB
- EXISTING FENCE TO BE REMOVED
- EXISTING FENCE TO REMAIN
- EXISTING OVERHEAD ELECTRIC
- PARKING SPACES
- ELECTRIC BOX
- UTILITY MARKER
- REGULATED STREAM
- ASSUMED FLOODWAY BUFFER
- NONTIDAL WETLAND
- EXISTING EASEMENT
- EXISTING FLOODPLAIN
- FLOODPLAIN BUFFER
- EXISTING FEATURE TO BE REMOVED

THE CONTRACTOR SHALL NOTIFY PA ONE CALL 1-800-242-1776, THREE (3) BUSINESS DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TICKET #20261202437 8

DEMOLITION NOTES:

EXTENTS OF UNDERGROUND UTILITIES SHOWN PER ALTA PREPARED BY KEYSTONE SURVEYING & MAPPING INC., DATED: 10/28/2025, FILE NUMBER: PAFN25-4582 MM, DRAWINGS #3 - #7.

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1795.14'

5/8" IRON PIN CAPPED "SURVEY TECH CORP" FOUND (HELD)

S00° 09' 57"E

3/4" IRON PIN FOUND

747.56'

REMOVE TREES

CB 13

CB 114

CB 94

CB 93

CB 91

CB 92

CB 81

CB 80

APPROXIMATE LOCATION FIRST ENERGY ELECTRIC LINE AS PER PA ONE CALL MAPPING (TYP.)

MATCH LINE TO SHEET 1

2-STORY BLOCK BLDG. 6,874 S.F. FF=1215.84

UNDERGROUND FUEL TANK

ABOVE GRADE BUILDINGS AND PARKING PAVEMENT TO REMAIN. UNDERGROUND UTILITIES TO BE CAPPED

EX. WATER TOWER

N/F BEAVER FALLS MUNICIPAL AUTHORITY c/o J. COLAVINCENZO TP#531030391004 DBV-3281 PG-997 BEING LOT NO. 1 IN PBV-33 PG-133 AREA=10.000 SQ.FT. OR 0.230 ACRES

30' ACCESS EASEMENT PBV-34 PG-133

100.00'

N88° 02' 21"E

448.69'

N88° 02' 21"E

N/F SMITH, ALEXANDER MCDEVITT ET AL. TP#531030388000 DBV-3657 PG-567

N01° 57' 39"W

100.00'

WATER TOWER

S01° 57' 39"E

100.00'

S88° 02' 21"W

100.00'

ANTENNA

EXISTING SANITARY PER 2013 SITE GRADING PLAN

1-STORY STEEL BLDG. 796 S.F.

SIGN EXIT DIR.

HOSE

1-STORY STEEL BLDG. 2,250 S.F.

1-STORY STEEL BLDG. 2,304 S.F.

1-STORY STEEL BLDG. 1,656 S.F.

1-STORY STEEL BLDG. 149 S.F. FF=1201.76

EXISTING SANITARY PER 2013 SITE GRADING PLAN

ELECTRICAL ENCLOSURE

FUEL PUMPS

FUEL TANKS

CHARGING STATIONS

SIGN SUNOCO

20' PENNSYLVANIA POWER COMPANY EASEMENT

BLEACHERS

CB 102

REMOVE TREES

CATCH BASIN T/G=1141.82' INV=1137.37' IN 15" SWPP INV=1137.37' OUT 18" SWPP

CATCH BASIN T/G=1141.61' INV=1136.39' IN 18" SWPP INV=1136.31' OUT 18" SWPP

CATCH BASIN T/G=1166.91' INV=1162.51' IN 15" SWPP INV=1162.46' OUT 15" SWPP

CATCH BASIN T/G=1166.53' INV=1157.41' OUT

BENT 5/8" IRON PIN FOUND

CATCH BASIN T/G=1136.85' INV=1124.70' OUT 15" SWPP

STORM MANHOLE

CATCH BASIN T/G=1141.35' INV=1106.55' IN 15" SWPP INV=1106.40' OUT 15" SWPP

SIGN DEER X-ING

5/8" IRON PIN CAPPED "SURVEY TECH CORP" FOUND (HELD FOR LINE)

PENNDALE ROAD VARIABLE RIGHT OF WAY

N89° 35' 03"E

153.19'

S55° 0

N/F BEAVER FALLS MUNICIPAL AUTHORITY c/o J. COLAVINCENZO TP#531030388004 DBV-3295 PG-270

MATCH LINE TO SHEET 4

SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

N

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITHCELLVILLE, MD 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076453

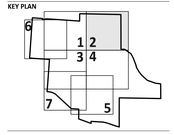
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
B	60% Review	06/08/26
C	90% Review	06/23/26
A	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

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DRAWING INFORMATION

DATE: JUNE 2026
PROJECT NUMBER: 25010482

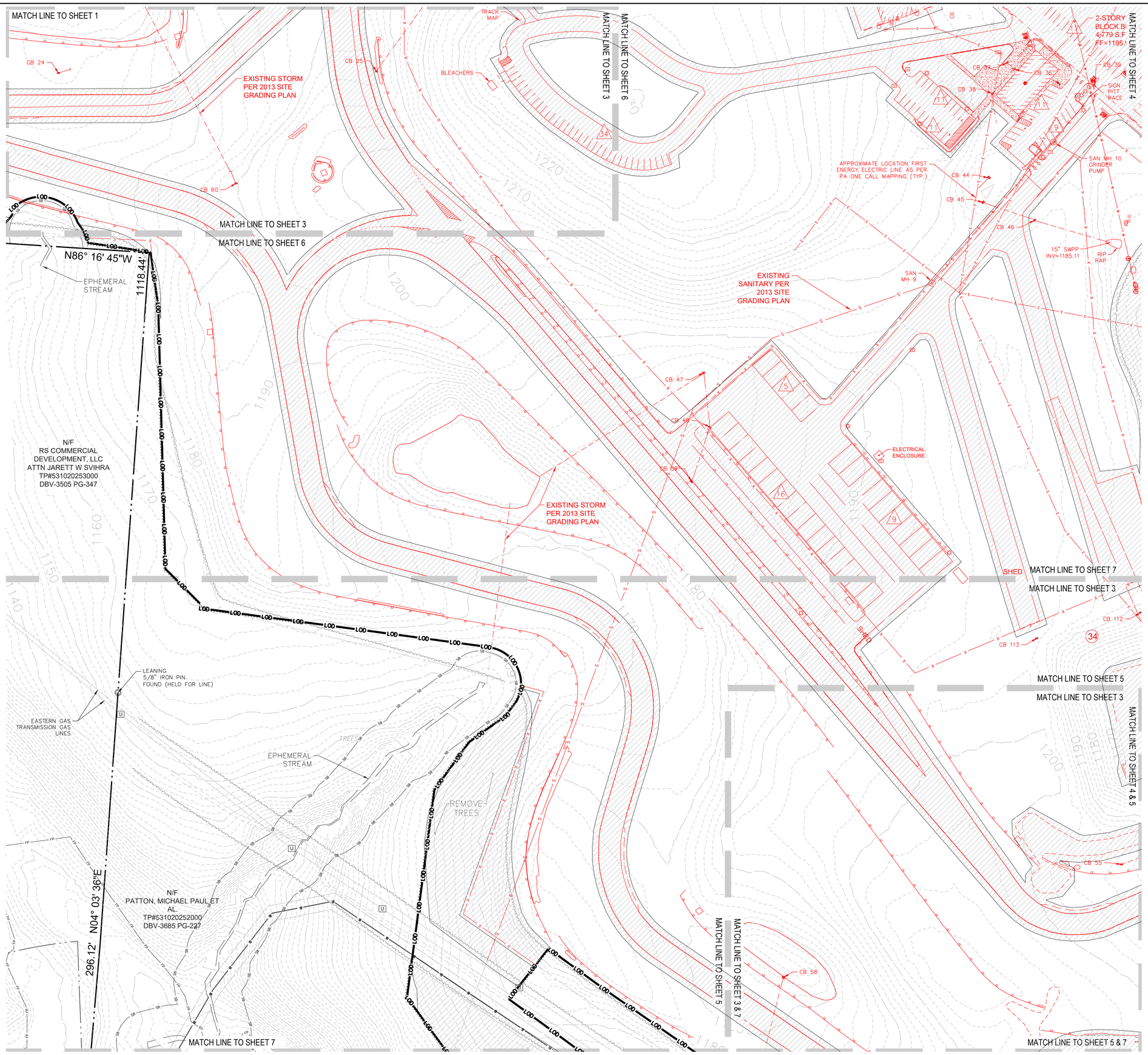
DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

SHEET TITLE

DEMOLITION PLAN

SHEET NUMBER

C112



SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- LIMIT OF DISTURBANCE
- BOUNDARY OF EXISTING FEATURES TBR (TO BE REMOVED)
- EXISTING TREE LINE
- PROPOSED TREE LINE
- EXISTING CURB
- EXISTING FENCE TO BE REMOVED
- EXISTING FENCE TO REMAIN
- EXISTING OVERHEAD ELECTRIC
- PARKING SPACES
- ELECTRIC BOX
- UTILITY MARKER
- REGULATED STREAM
- ASSUMED FLOODWAY BUFFER
- NONTIDAL WETLAND
- EXISTING EASEMENT
- EXISTING FLOODPLAIN
- FLOODPLAIN BUFFER
- EXISTING FEATURE TO BE REMOVED

THE CONTRACTOR SHALL NOTIFY PA ONE CALL 1-800-242-1776, THREE (3) BUSINESS DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TICKET #20261202437B

DEMOLITION NOTES:

EXTENTS OF UNDERGROUND UTILITIES SHOWN PER ALTA PREPARED BY KEYSTONE SURVEYING & MAPPING INC., DATED: 10/28/2025, FILE NUMBER: PAFN25-4582 MM, DRAWINGS #3 - #7.

UTILITIES TO BE CUT AND CAPPED AND ABANDONED IN PLACE.

RED FEATURES ON SITE INTERIOR (GUARDRAILS, UTILITIES, ETC) TO BE REMOVED.

CONTRACTORS TO NOT DISTURB WITHIN EXISTING FLOODPLAIN OR FLOODWAYS. IF REQUIRED, CONTRACTOR TO NOTIFY ENGINEER PRIOR TO DISTURBING WITHIN THESE LIMITS.

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITHCELLVILLE, MD 20721
301.430.2000

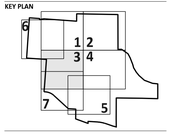
STAMP

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
B	60% Review	06/08/26
C	90% Review	06/29/26
0	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

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DRAWING INFORMATION

DATE: JUNE 2026
PROJECT NUMBER: 25010482

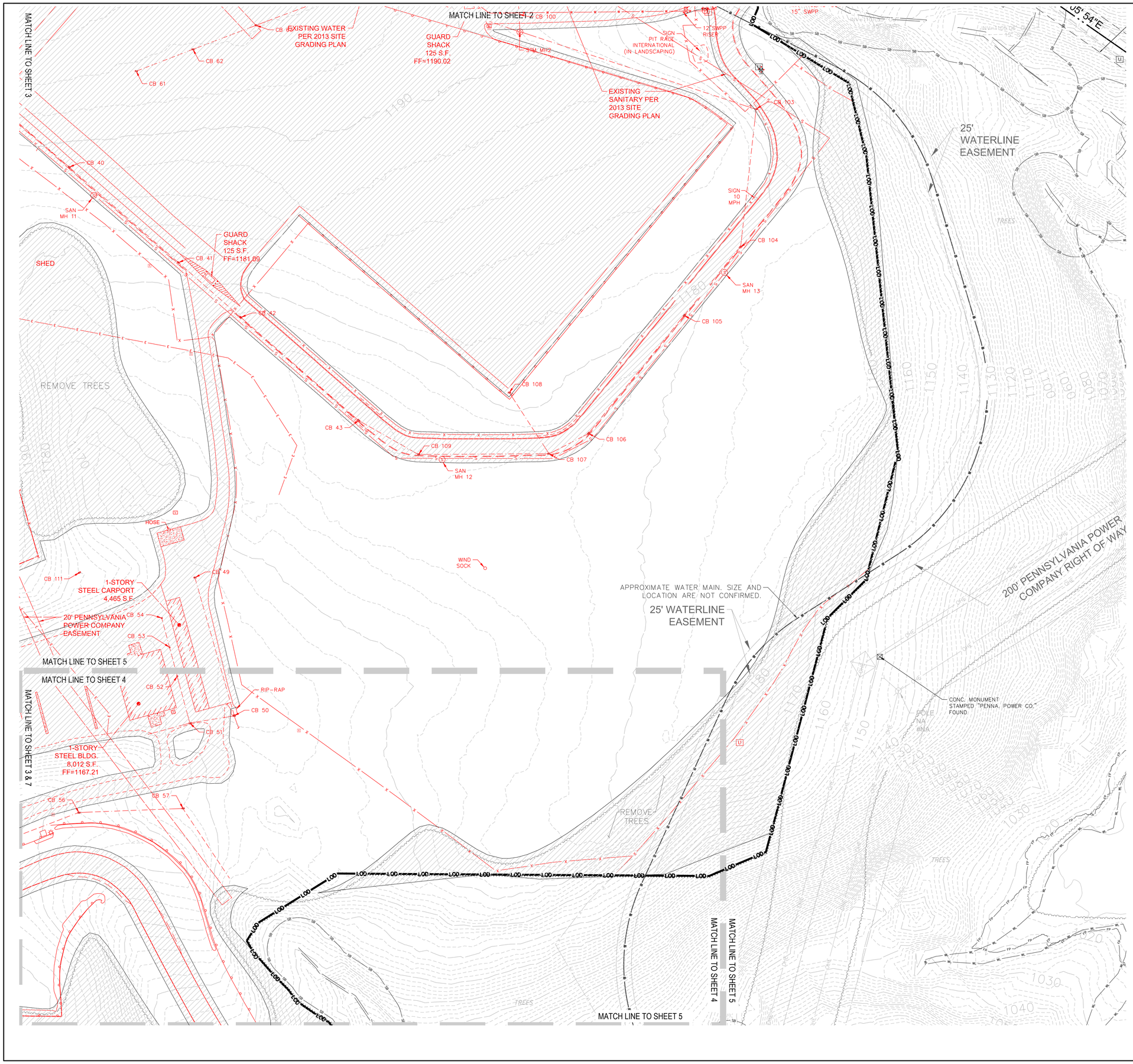
DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

SHEET TITLE

DEMOLITION PLAN

SHEET NUMBER

C113



LEGEND

	PROPERTY LINE
78	EXISTING CONTOUR
LOD LOD	LIMIT OF DISTURBANCE
	BOUNDARY OF EXISTING FEATURES TBR (TO BE REMOVED)
	EXISTING TREE LINE
	PROPOSED TREE LINE
	EXISTING CURB
X X	EXISTING FENCE TO BE REMOVED
X X	EXISTING FENCE TO REMAIN
OHE	EXISTING OVERHEAD ELECTRIC
	PARKING SPACES
E	ELECTRIC BOX
U	UTILITY MARKER
	REGULATED STREAM
SB	ASSUMED FLOODWAY BUFFER
WL WL	NONTIDAL WETLAND
	EXISTING EASEMENT
FP FP FP	EXISTING FLOODPLAIN
FB FB FB	FLOODPLAIN BUFFER
	EXISTING FEATURE TO BE REMOVED

THE CONTRACTOR SHALL NOTIFY PA ONE CALL 1-800-242-1776, THREE (3) BUSINESS DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TICKET #202612024378

DEMOLITION NOTES:

EXTENTS OF UNDERGROUND UTILITIES SHOWN PER ALTA PREPARED BY KEYSTONE SURVEYING & MAPPING INC., DATED: 10/28/2025, FILE NUMBER: PAFN25-4582 MM, DRAWINGS #3 - #7.

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RED FEATURES ON SITE INTERIOR (GUARDRAILS, UTILITIES, ETC) TO BE REMOVED.

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SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD., SUITE 200
MITCHELLVILLE, MD 20721
301.430.2000

STAMP

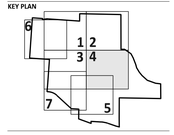
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



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OWNER

switch
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702-468-5873

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DRAWING INFORMATION

DATE: JUNE 2026
PROJECT NUMBER: 25010482

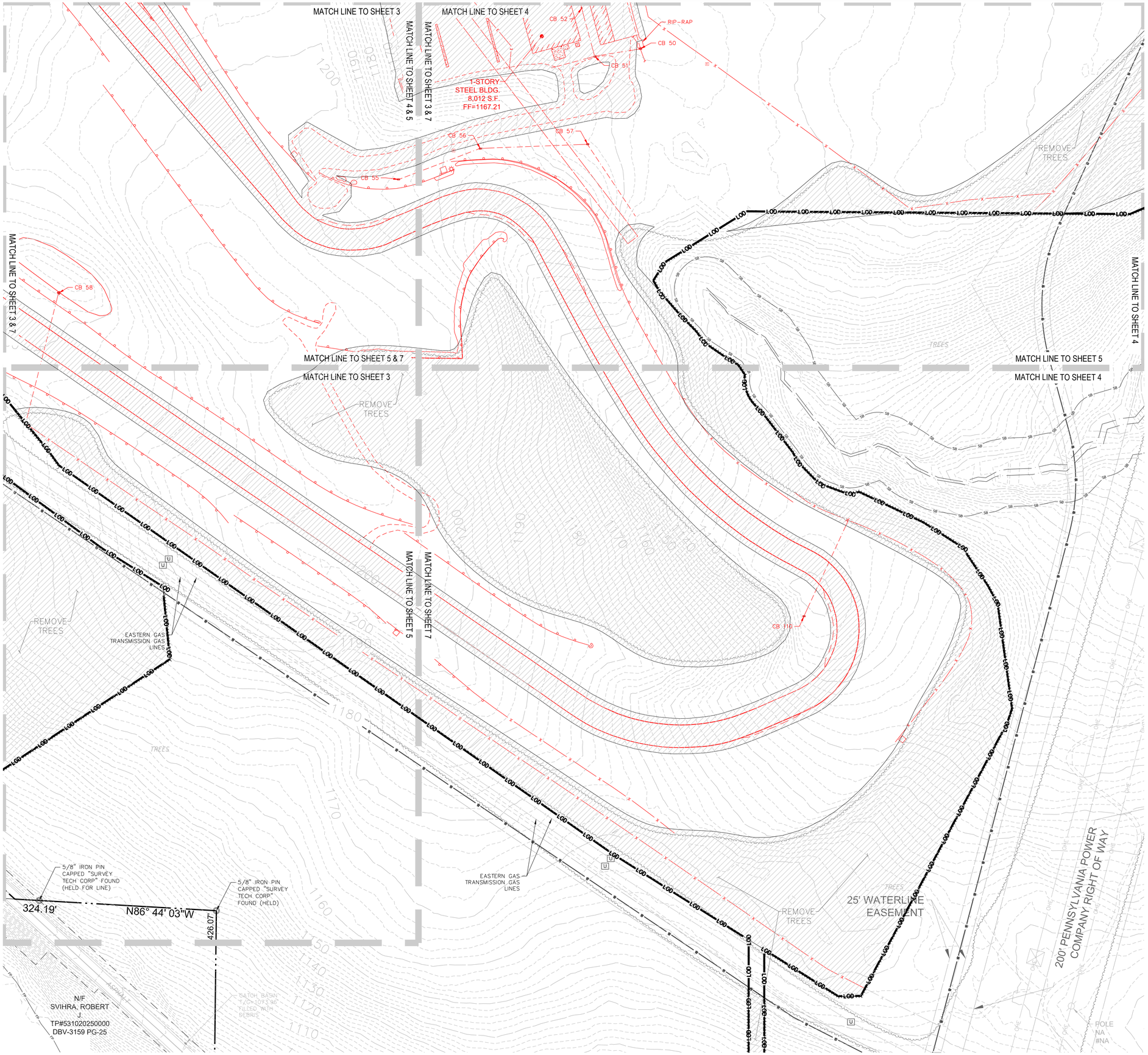
DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

SHEET TITLE

DEMOLITION PLAN

SHEET NUMBER

C114



LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- LIMIT OF DISTURBANCE
- BOUNDARY OF EXISTING FEATURES TBR (TO BE REMOVED)
- EXISTING TREE LINE
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- EXISTING EASEMENT
- EXISTING FLOODPLAIN
- FLOODPLAIN BUFFER
- EXISTING FEATURE TO BE REMOVED

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SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLVILLE, MD 20721
301.430.2000

STAMP

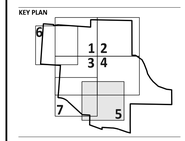
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
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OWNER

switch
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702-468-5873

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DRAWING INFORMATION

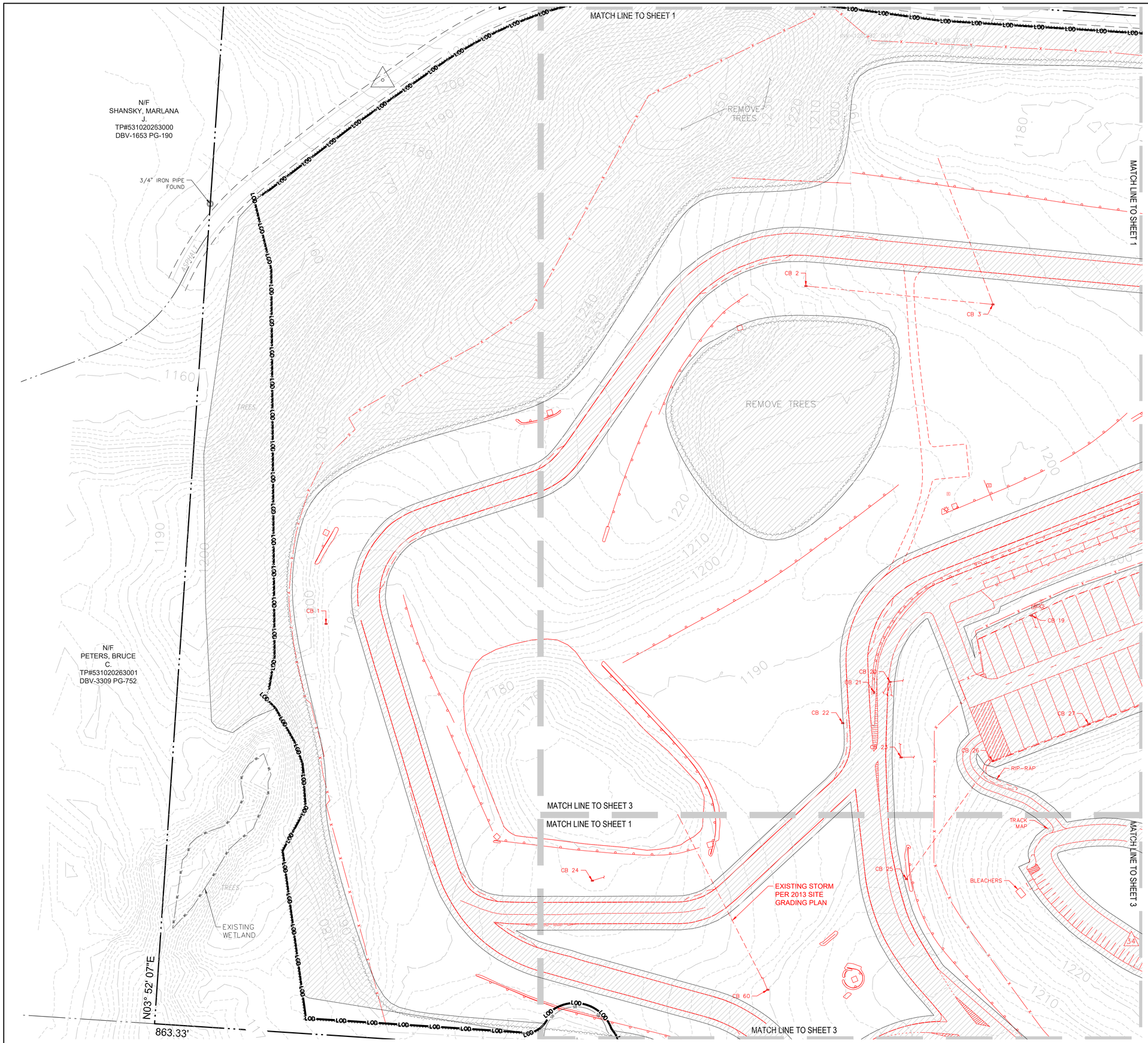
DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

DEMOLITION PLAN

SHEET NUMBER

C115



LEGEND

- PROPERTY LINE
- 78 EXISTING CONTOUR
- LOD LOD LIMIT OF DISTURBANCE
- BOUNDARY OF EXISTING FEATURES TBR (TO BE REMOVED)
- EXISTING TREE LINE
- PROPOSED TREE LINE
- EXISTING CURB
- x x EXISTING FENCE TO BE REMOVED
- x x EXISTING FENCE TO REMAIN
- OHE EXISTING OVERHEAD ELECTRIC
- PARKING SPACES
- E ELECTRIC BOX
- U UTILITY MARKER
- REGULATED STREAM
- SB ASSUMED FLOODWAY BUFFER
- WL WL NONTIDAL WETLAND
- EXISTING EASEMENT
- FP FP FP EXISTING FLOODPLAIN
- FB FB FB FLOODPLAIN BUFFER
- EXISTING FEATURE TO BE REMOVED

THE CONTRACTOR SHALL NOTIFY PA ONE CALL 1-800-242-1776, THREE (3) BUSINESS DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TICKET #20261204378

DEMOLITION NOTES:

EXTENTS OF UNDERGROUND UTILITIES SHOWN PER ALTA PREPARED BY KEYSTONE SURVEYING & MAPPING INC., DATED: 10/28/2025, FILE NUMBER: PAFN25-4582 MM, DRAWINGS #3 - #7.

UTILITIES TO BE CUT AND CAPPED AND ABANDONED IN PLACE.

RED FEATURES ON SITE INTERIOR (GUARDRAILS, UTILITIES, ETC) TO BE REMOVED.

CONTRACTORS TO NOT DISTURB WITHIN EXISTING FLOODPLAIN OR FLOODWAYS. IF REQUIRED, CONTRACTOR TO NOTIFY ENGINEER PRIOR TO DISTURBING WITHIN THESE LIMITS.

SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

N

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITHCELLVILLE, MD 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA
REGISTERED
PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453

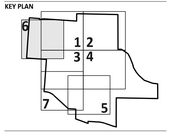
GEORGE J. HARTMAN III
PROFESSIONAL
ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
B	60% Review	06/08/26
C	90% Review	06/23/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

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DRAWING INFORMATION

DATE: JUNE 2026
PROJECT NUMBER: 25010482

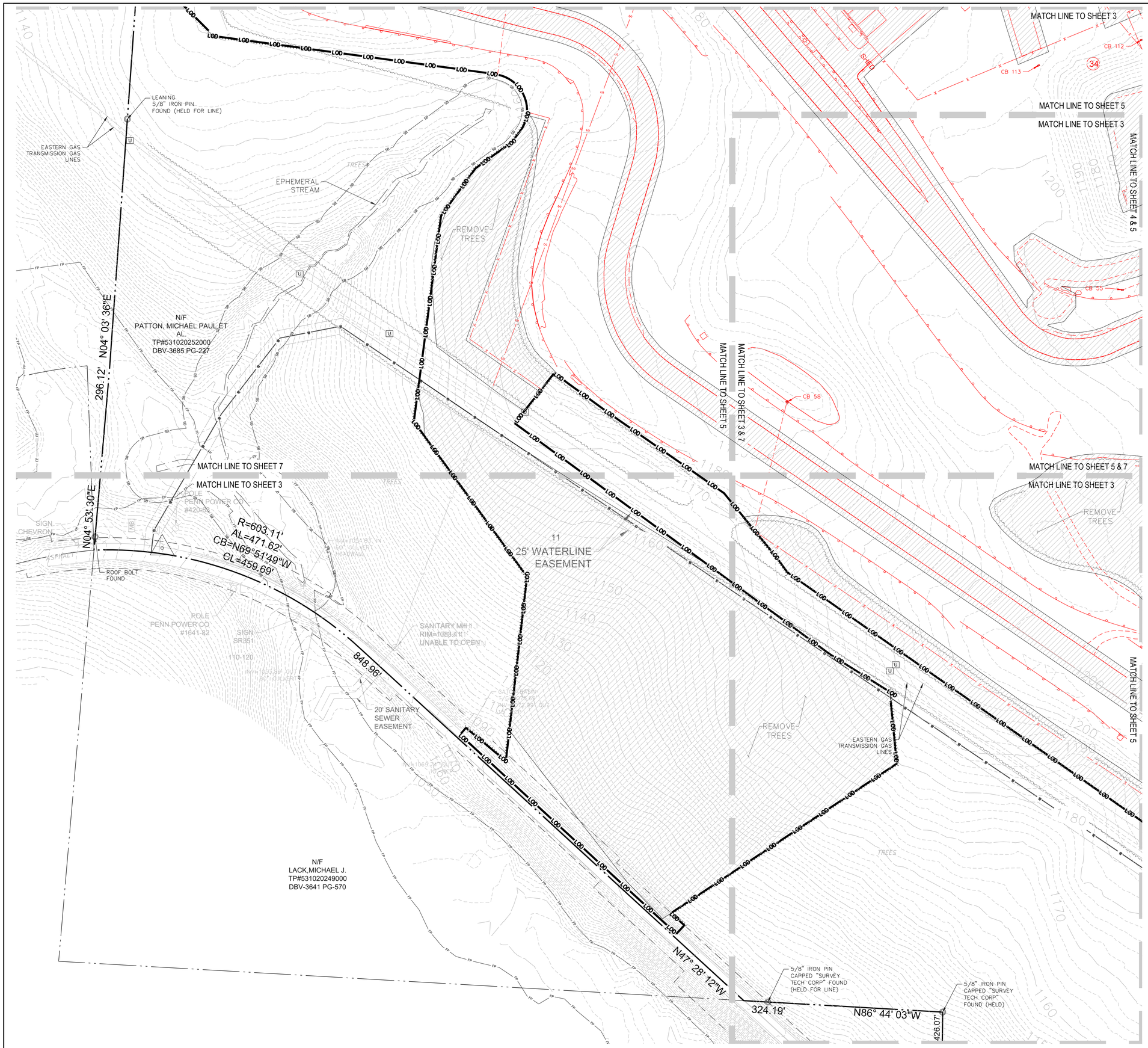
DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

SHEET TITLE

DEMOLITION PLAN

SHEET NUMBER

C116



LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- LIMIT OF DISTURBANCE
- BOUNDARY OF EXISTING FEATURES TBR (TO BE REMOVED)
- EXISTING TREE LINE
- PROPOSED TREE LINE
- EXISTING CURB
- EXISTING FENCE TO BE REMOVED
- EXISTING FENCE TO REMAIN
- EXISTING OVERHEAD ELECTRIC
- PARKING SPACES
- ELECTRIC BOX
- UTILITY MARKER
- REGULATED STREAM
- ASSUMED FLOODWAY BUFFER
- NONTIDAL WETLAND
- EXISTING EASEMENT
- EXISTING FLOODPLAIN
- FLOODPLAIN BUFFER
- EXISTING FEATURE TO BE REMOVED

THE CONTRACTOR SHALL NOTIFY PA ONE CALL 1-800-242-1776, THREE (3) BUSINESS DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TICKET #20261202437B

DEMOLITION NOTES:

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SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

N

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSVILLE, MD 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076453

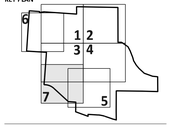
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



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D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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DRAWING INFORMATION

DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

DEMOLITION PLAN

SHEET NUMBER

C117

NEW BEAVER BORO. - LAWRENCE CO.

BIG BEAVER BORO. - BEAVER CO.
(APPROXIMATE LOCATION)

S01° 05' 54"W
62.15'
R=588.00'
AL=272.46'
CB=N80°42'41"E
CL=270.03'
S88° 58' 54"E
1795.14'
N00° 31' 50"E
S86° 01' 06"E
446.36'
S88° 08' 50"E
1347.47'
1753.80'
100' B.R.L.
S00° 09' 57"E
747.56'
SWM POND 1
825'
1266.5'
1306.62'
HEAVY DUTY ASPHALT PAVING
PROPOSED 15' CMU WALL
3-STORY BLOCK BLDG 6,874 S.F. FF=1018.00
R-1 - RURAL RESIDENTIAL ZONE
I - INDUSTRIAL ZONE
WATER TOWER
L19
L18
L16
L17
N88° 02' 21"E
448.69'
PROPOSED CLEARVU GATE
SWM POND 6
1514.92'
910.14'
SWM POND 2
1370.53'
PROPOSED SWITCH GEAR
HEAVY DUTY ASPHALT PAVING
BUILDING 03
3xEVO
201,688 SF
100' B.R.L.
595.20'
N03° 52' 07"E
863.33'
N86° 16' 45"W
797.05'
867.70'
SWM POND 4
1118.44'
BUILDING 02
3xEVO
201,688 SF
PROPOSED 8' RETAINING WALL WITH 4' HIGH CHAIN LINK FENCE, DELEGATED DESIGN BY CONTRACTOR
901.04'
BUILDING 01
3xEVO
201,688 SF
SWM POND 5
20' WATERLINE EASEMENT
C-1 - COMMERCIAL ZONE
I - INDUSTRIAL ZONE
PROPOSED 15' CMU WALL
PROPOSED GUARDRAIL
HEAVY DUTY ASPHALT PAVING
N04° 03' 36"E
100' B.R.L.
L15
1015.88'
SWM POND 3
PROPOSED 15' RETAINING WALL WITH 4' HIGH CHAIN LINK FENCE, BY OTHERS
1091.64'
PIT SUB 01
FIRST ENERGY SUBSTATION
PROPOSED 15' RETAINING WALL WITH 4' HIGH CHAIN LINK FENCE, BY OTHERS
PROPOSED GUARDRAIL
626.65'
221.56'
516.20'
370.30'
100' B.R.L.
L14
N47° 38' 12"W
819.96'
R=603.11'
AL=471.62'
CB=N69°51'49"W
CL=459.69'
PROPOSED 150' WIDE OVERHEAD TRANSMISSION LINE EASEMENT
N00° 39' 47"E
426.07'
572.45'
N70° 05' 13"W
L13
431.57'
N86° 36' 00"W
411.45'
N71° 19' 00"W
C1
L12
R=1145.92'
AL=305.67'
100' B.R.L.
L11
884.20'
S00° 25' 41"W
1123.33'
N89° 16' 18"W
679.95'
N88° 36' 04"W
643.69'
S00° 06' 56"E
I - INDUSTRIAL ZONE
MUN - MULTI-USE NEIGHBORHOOD ZONE
L1
L2
L3
L4
L5
L6
L7
L8
L9
L10

L1	N89° 35' 03"E	153.19'
L2	S55° 05' 54"E	341.54'
L3	S28° 01' 38"E	199.29'
L4	S21° 04' 38"E	305.71'
L5	S15° 54' 21"E	154.18'
L6	S31° 01' 21"E	221.90'
L7	S39° 51' 17"E	188.40'
L8	S47° 47' 10"E	308.59'
L9	S70° 02' 37"E	380.40'
L10	S84° 14' 05"E	225.90'
L11	S00° 59' 01"E	382.51'
L12	N76° 45' 30"W	19.33'
L13	S01° 11' 37"W	85.32'
L14	N86° 44' 03"W	324.19'
L15	N04° 53' 30"E	296.12'
L16	S01° 57' 39"E	100.00'
L17	S88° 02' 21"W	100.00'
L18	N01° 57' 39"W	100.00'
L19	N88° 02' 21"E	100.00'
C1	N74° 02' 15"W R = 954.93'	90.66'

LEGEND

- PROPERTY LINE
- PROPOSED BUILDING
- PROPOSED GRAVEL AREA
- PROPOSED CONCRETE PAVING
- PROPOSED HEAVY DUTY ASPHALT PAVING
- PROPOSED POND
- EXISTING CURB
- PROPOSED CURB
- PROPOSED SWM POND
- LIMITS OF DESIGNATED STREAM
- SB — ASSUMED FLOODWAY BUFFER
- WL — NONTIDAL WETLAND
- EXISTING EASEMENT
- FP — EXISTING FLOODPLAIN

THE CONTRACTOR SHALL NOTIFY PA ONE CALL 1-800-242-1776, THREE (3) BUSINESS DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TICKET #20261024378

NOTES:
BUILDINGS, SUBSTATION, AND SWITCH STATION SHOWN HEREIN ARE FOR REFERENCE ONLY ARE WILL BE DETAILED AND PERMITTED UNDER A SEPARATED PACKAGE.

SEPARATE PENNDOT PERMIT WILL BE ACQUIRED FOR PROPOSED FAIRLANE BOULEVARD ACCESS DRIVE.

SCALE: 1" = 200'
0 200 400 600 1000

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSBURG, 20721
301.430.2000

STAMP

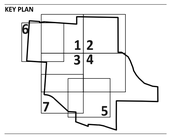
COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076453
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/29/26
B	60% Review	06/08/26
C	90% Review	06/23/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

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DRAWING INFORMATION

DATE: JUNE 2026
PROJECT NUMBER: 25010482

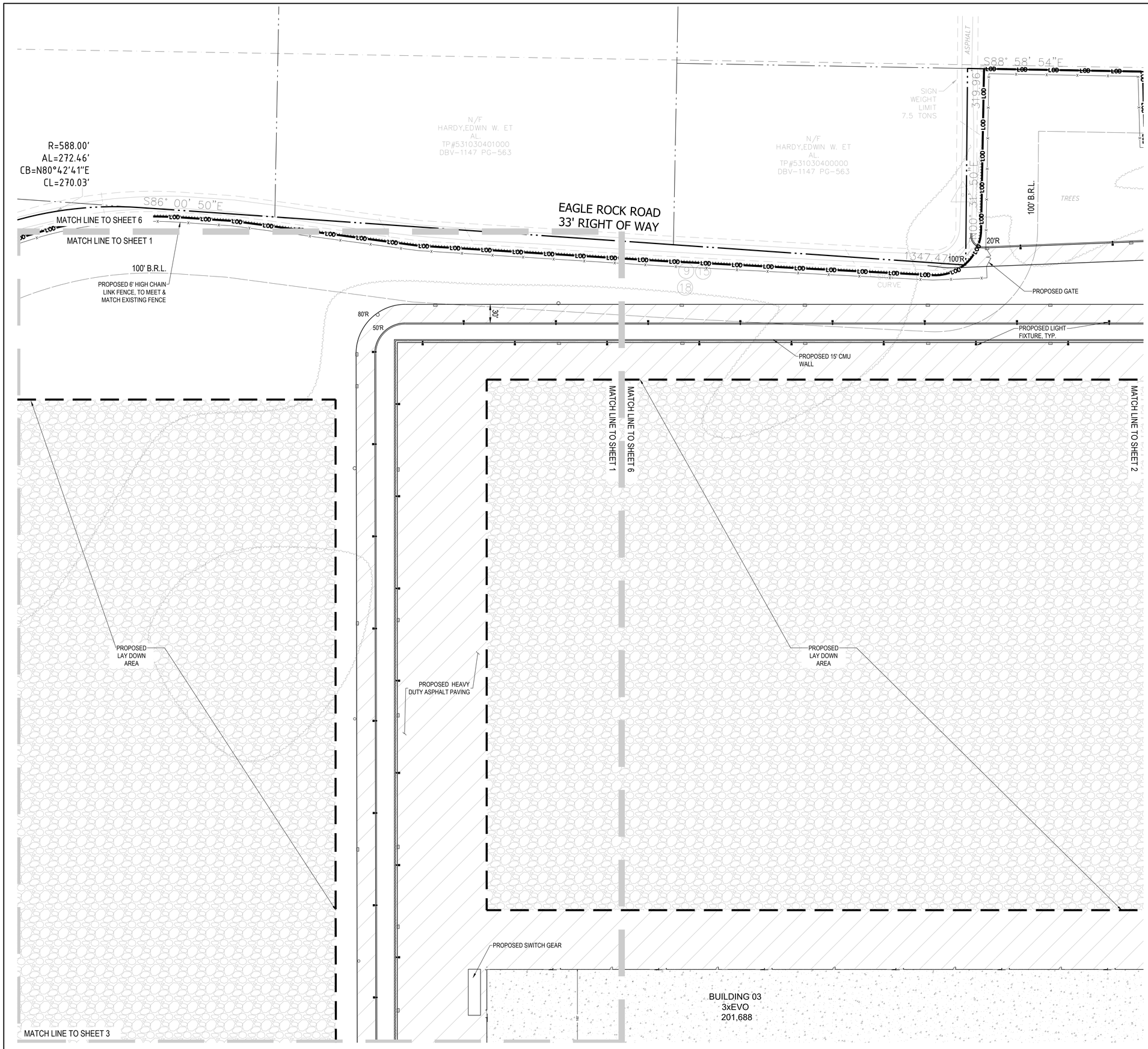
DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

SHEET TITLE

OVERALL SITE PLAN

SHEET NUMBER

C200



LEGEND

- PROPERTY LINE
- PROPOSED BUILDING
- PROPOSED GRAVEL AREA
- PROPOSED CONCRETE PAVING
- PROPOSED HEAVY DUTY ASPHALT PAVING
- PROPOSED POND
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- PROPOSED SWM POND
- REGULATED STREAM (CENTERLINE)
- SB — ASSUMED FLOODWAY BUFFER
- WL — NONTIDAL WETLAND
- EXISTING EASEMENT
- FP — EXISTING FLOODPLAIN

THE CONTRACTOR SHALL NOTIFY PA ONE CALL 1-800-242-1776, THREE (3) BUSINESS DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TICKET #202612024378

SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITHCELLVILLE, MD, 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076453

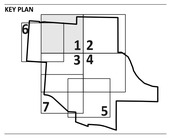
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
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0	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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DRAWING INFORMATION

DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

SITE PLAN

SHEET NUMBER

C201

LEGEND

- PROPERTY LINE
- PROPOSED BUILDING
- PROPOSED GRAVEL AREA
- PROPOSED CONCRETE PAVING
- PROPOSED HEAVY DUTY ASPHALT PAVING
- PROPOSED POND
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- PROPOSED SWM POND
- REGULATED STREAM (CENTERLINE)
- ASSUMED FLOODWAY BUFFER
- NONTIDAL WETLAND
- EXISTING EASEMENT
- EXISTING FLOODPLAIN

THE CONTRACTOR SHALL NOTIFY PA ONE CALL 1-800-242-1776, THREE (3) BUSINESS DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TICKET #202612024378

1795.14'

100' B.R.L.

PROPOSED 6' HIGH CHAIN LINK FENCE, TO MEET & MATCH EXISTING FENCE

S00° 09' 57"E

30'

42'R

72.2'R

PROPOSED 15' CMU WALL

PROPOSED LIGHT FIXTURE, TYP.

PROPOSED HEAVY DUTY ASPHALT PAVING

MATCH LINE TO SHEET 1

2-STORY BLOCK BLDG. 6,874 S.F. FF=1215.84

GRAVEL

29

31

20

SWM POND 1

100' B.R.L.

347.58'

N/F
BEAVER FALLS MUNICIPAL AUTHORITY
c/o J. COLAVINCENZO
TP#531030391004
DBV-3281 PG-897
BEING LOT NO. 1

30' ACCESS EASEMENT PBV-[illegible]

N/F
SMITH, ALEXANDER MCDEVITT ET AL.
TP#531030388000
DBV-3657 PG-567

EX. WATER TOWER

100.00'

N88° 02' 21"E

448.69'

GRAVEL

WATER TOWER

N01° 57' 39"W

100.00'

S88° 02' 21"W

100.00'

ANTENNA

S01° 57' 39"E

PROPOSED 15' CMU WALL

PROPOSED 6' HIGH CHAIN LINK FENCE, TO MEET & MATCH EXISTING FENCE

PROPOSED CLEARVU GATE

50'R

36'

108'

200'R

230'R

200'R

100' B.R.L.

N/F
BEAVER FALLS MUNICIPAL AUTHORITY
c/o J. COLAVINCENZO
TP#531030388004
DBV-3295 PG-270

SWM POND 6

TIE-IN TO EX. PENNDALE ROAD

PROPOSED GATE

100'R

100'R

230'R

200'R

PENNDALE ROAD
VARIABLE RIGHT OF WAY

N89° 35' 03"E

153.19'

PROPOSED LAY DOWN AREA

PROPOSED SWITCH GEAR

BUILDING 03
3xEVO
201,688

MATCH LINE TO SHEET 4

SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSBURG, OH 45731
937.430.2000

STAMP

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GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

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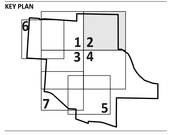
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



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D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
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702-468-5873

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DRAWING INFORMATION

DATE: JUNE 2026
PROJECT NUMBER: 25010482

DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

SHEET TITLE

SITE PLAN

SHEET NUMBER

C202

MATCH LINE TO SHEET 1

100' B.R.L.

MATCH LINE TO SHEET 3

MATCH LINE TO SHEET 6

N86° 16' 45"W

111.47'

100' B.R.L.

SWM POND 4

N/F
RS COMMERCIAL
DEVELOPMENT, LLC
ATTN JARETT W SVIHRA
TP#531020253000
DBV-3505 PG-347

148'

30' 30'

PROPOSED 15' CMU WALL

PROPOSED LIGHT FIXTURE, TYP.

MATCH LINE TO SHEET 3

MATCH LINE TO SHEET 6

MATCH LINE TO SHEET 4

BUILDING 03
3xEVO
201,688 SF

PARKING ZONE: 33 SPACES (3 HANDICAP ACCESSIBLE)

PARKING ZONE: 33 SPACES (3 HANDICAP ACCESSIBLE)

PROPOSED SWITCH GEAR

80'R

50'R

PROPOSED CLEARVU GATE

36'

36'

36'

60'R

BUILDING 02
3xEVO
201,688 SF

PROPOSED HEAVY DUTY ASPHALT PAVING

200'R

230'R

PARKING ZONE: 33 SPACES (3 HANDICAP ACCESSIBLE)

PROPOSED SWITCH GEAR

MATCH LINE TO SHEET 7

MATCH LINE TO SHEET 3

PROPOSED GUARDRAIL, TYP.

PROPOSED 8' RETAINING WALL #2 WITH 4' HIGH FENCE, DELEGATED DESIGN BY CONTRACTOR

BUILDING 01
3xEVO
201,688 SF

30' 30'

135'

MATCH LINE TO SHEET 5

MATCH LINE TO SHEET 3

PROPOSED 6' HIGH CHAIN LINK FENCE, TO MEET & MATCH EXISTING FENCE

50' ASSUMED FLOODWAY

50' ASSUMED FLOODWAY

TREES

PARKING ZONE: 33 SPACES (3 HANDICAP ACCESSIBLE)

18'

85'

MATCH LINE TO SHEET 4 & 5

30'

30'

120'R

50'R

100'R

110'R

PROPOSED LIGHT FIXTURE, TYP.

40'R

40'R

80'R

30'R

30'R

38'

150'R

100'R

MATCH LINE TO SHEET 5

MATCH LINE TO SHEET 3 & 7

N/F
PATTON, MICHAEL PAUL
ET AL
TP#531020252000
DBV-3885 PG-227

296.12'N04° 03' 36"E

100' B.R.L.

80'R

50'R

500'

MATCH LINE TO SHEET 7

MATCH LINE TO SHEET 5 & 7

LEGEND

- PROPERTY LINE
- PROPOSED BUILDING
- PROPOSED GRAVEL AREA
- PROPOSED CONCRETE PAVING
- PROPOSED HEAVY DUTY ASPHALT PAVING
- PROPOSED POND
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- PROPOSED SWM POND
- REGULATED STREAM (CENTERLINE)
- SB — ASSUMED FLOODWAY BUFFER
- WL — NONTIDAL WETLAND
- EXISTING EASEMENT
- FP — EXISTING FLOODPLAIN

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SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

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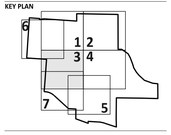
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
B	60% Review	06/08/26
C	90% Review	06/22/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

THIS DOCUMENT CONSTITUTES THE CONFIDENTIAL AND PROPRIETARY INFORMATION OF SWITCH. NOT TO BE SHARED, MODIFIED, OR DUPLICATED WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF SWITCH.

DRAWING INFORMATION

DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

SITE PLAN

SHEET NUMBER

C203

MATCH LINE TO SHEET 3

MATCH LINE TO SHEET 2

BUILDING 03
3xEVO
201,688 SF

PARKING ZONE: 33 SPACES (3 HANDICAP ACCESSIBLE)

PROPOSED HEAVY DUTY ASPHALT PAVING

PROPOSED SWITCH GEAR, TYP.

BUILDING 02
3xEVO
201,688 SF

PARKING ZONE: 33 SPACES (3 HANDICAP ACCESSIBLE)

PROPOSED LIGHT FIXTURE, TYP.

PROPOSED SWITCH GEAR

PROPOSED 15' CMU WALL

BUILDING 01
3xEVO
201,688 SF

MATCH LINE TO SHEET 5

MATCH LINE TO SHEET 4

MATCH LINE TO SHEET 3 & 7

PARKING ZONE: 33 SPACES (3 HANDICAP ACCESSIBLE)

PROPOSED HEAVY DUTY ASPHALT PAVING

PROPOSED GUARDRAIL, TYP.

PROPOSED 15' RETAINING WALL #3 WITH 4' HIGH FENCE

PROPOSED 6' HIGH CHAIN LINK FENCE, TO MEET & MATCH EXISTING FENCE

SWM POND 3

SWM POND 5

130'R

100'R

100' B.R.L.

500'R

530'R

50'R

80'R

30'R

25' WATERLINE EASEMENT

200' PENNSYLVANIA POWER COMPANY RIGHT OF WAY

TREES

MATCH LINE TO SHEET 5

MATCH LINE TO SHEET 4

MATCH LINE TO SHEET 5

LEGEND

- PROPERTY LINE
- PROPOSED BUILDING
- PROPOSED GRAVEL AREA
- PROPOSED CONCRETE PAVING
- PROPOSED HEAVY DUTY ASPHALT PAVING
- PROPOSED POND
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- PROPOSED SWM POND
- REGULATED STREAM (CENTERLINE)
- ASSUMED FLOODWAY BUFFER
- NONTIDAL WETLAND
- EXISTING EASEMENT
- EXISTING FLOODPLAIN

THE CONTRACTOR SHALL NOTIFY PA ONE CALL 1-800-242-1776, THREE (3) BUSINESS DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TICKET #20261202437B

SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITHCELLSBURG, MD 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076453

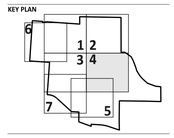
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	50% Review	05/26/26
B	60% Review	06/08/26
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OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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DRAWING INFORMATION

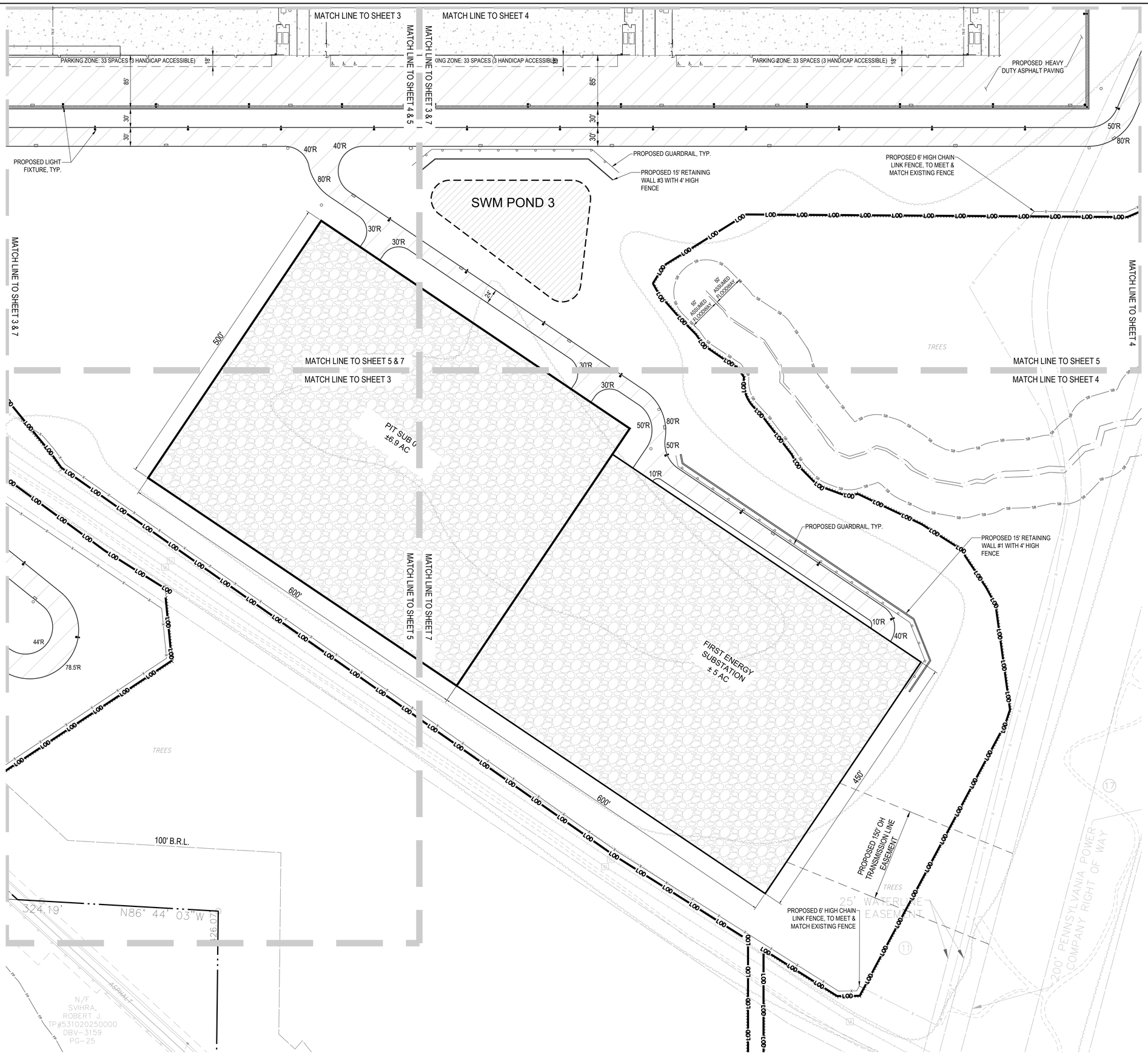
DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

SITE PLAN

SHEET NUMBER

C204



LEGEND

- PROPERTY LINE
- PROPOSED BUILDING
- PROPOSED GRAVEL AREA
- PROPOSED CONCRETE PAVING
- PROPOSED HEAVY DUTY ASPHALT PAVING
- PROPOSED POND
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- PROPOSED SWM POND
- REGULATED STREAM (CENTERLINE)
- ASSUMED FLOODWAY BUFFER
- NONTIDAL WETLAND
- EXISTING EASEMENT
- EXISTING FLOODPLAIN

THE CONTRACTOR SHALL NOTIFY PA ONE CALL 1-800-242-1776, THREE (3) BUSINESS DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TICKET #202612024378

SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD., SUITE 200
MITCHELLVILLE, MD 20721
301.430.2000

STAMP

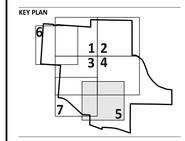
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
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OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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DRAWING INFORMATION

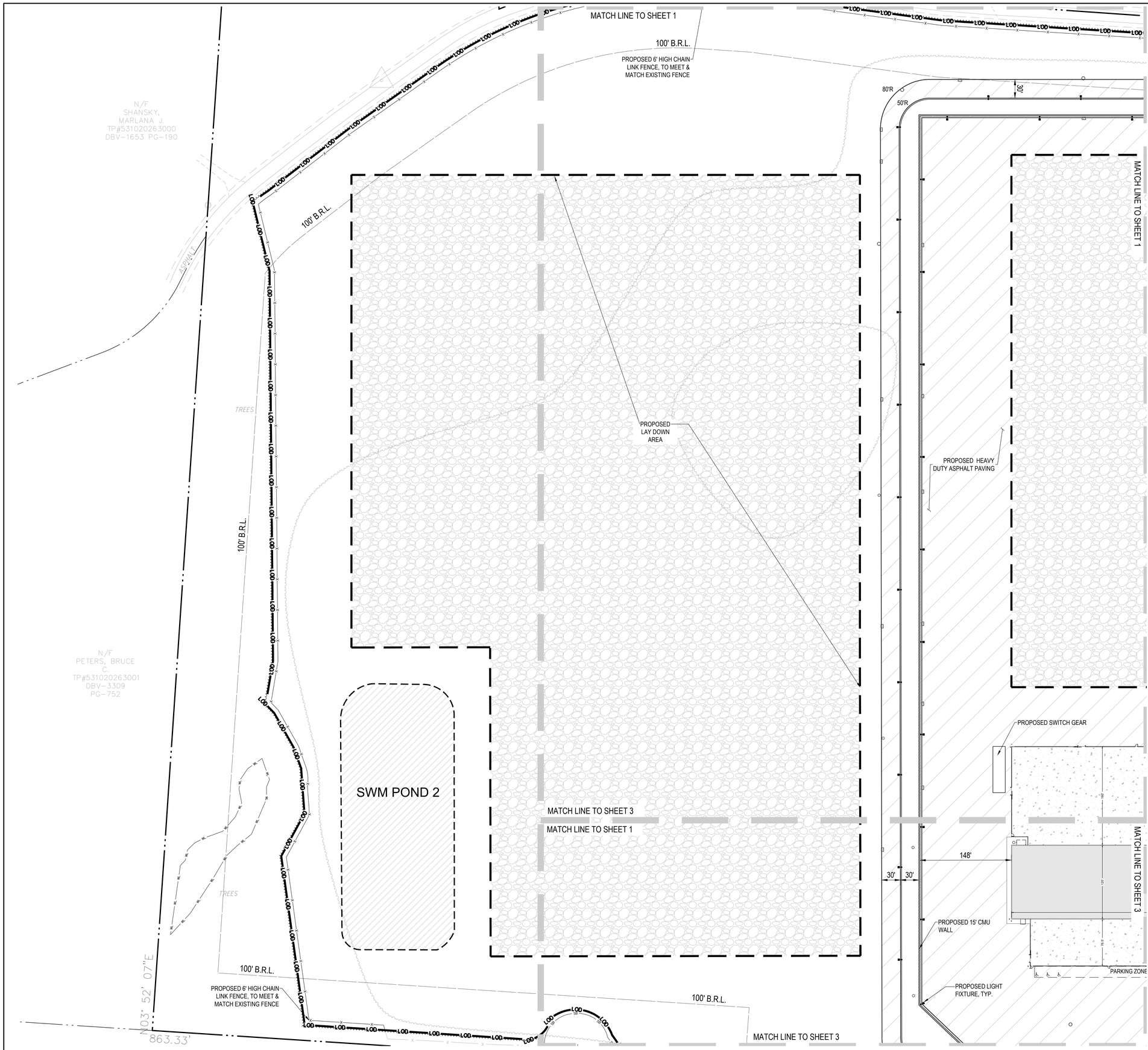
DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

SITE PLAN

SHEET NUMBER

C205



LEGEND

- PROPERTY LINE
- PROPOSED BUILDING
- PROPOSED GRAVEL AREA
- PROPOSED CONCRETE PAVING
- PROPOSED HEAVY DUTY ASPHALT PAVING
- PROPOSED POND
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- PROPOSED SWM POND
- REGULATED STREAM (CENTERLINE)
- SB — ASSUMED FLOODWAY BUFFER
- WL — NONTIDAL WETLAND
- EXISTING EASEMENT
- FP — EXISTING FLOODPLAIN

THE CONTRACTOR SHALL NOTIFY PA ONE CALL 1-800-242-1776, THREE (3) BUSINESS DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TICKET #20261202437B

SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

N

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITHCELLSVILLE, 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076453

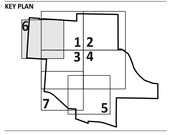
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
B	60% Review	06/08/26
C	90% Review	06/23/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

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DRAWING INFORMATION

DATE: JUNE 2026
PROJECT NUMBER: 25010482

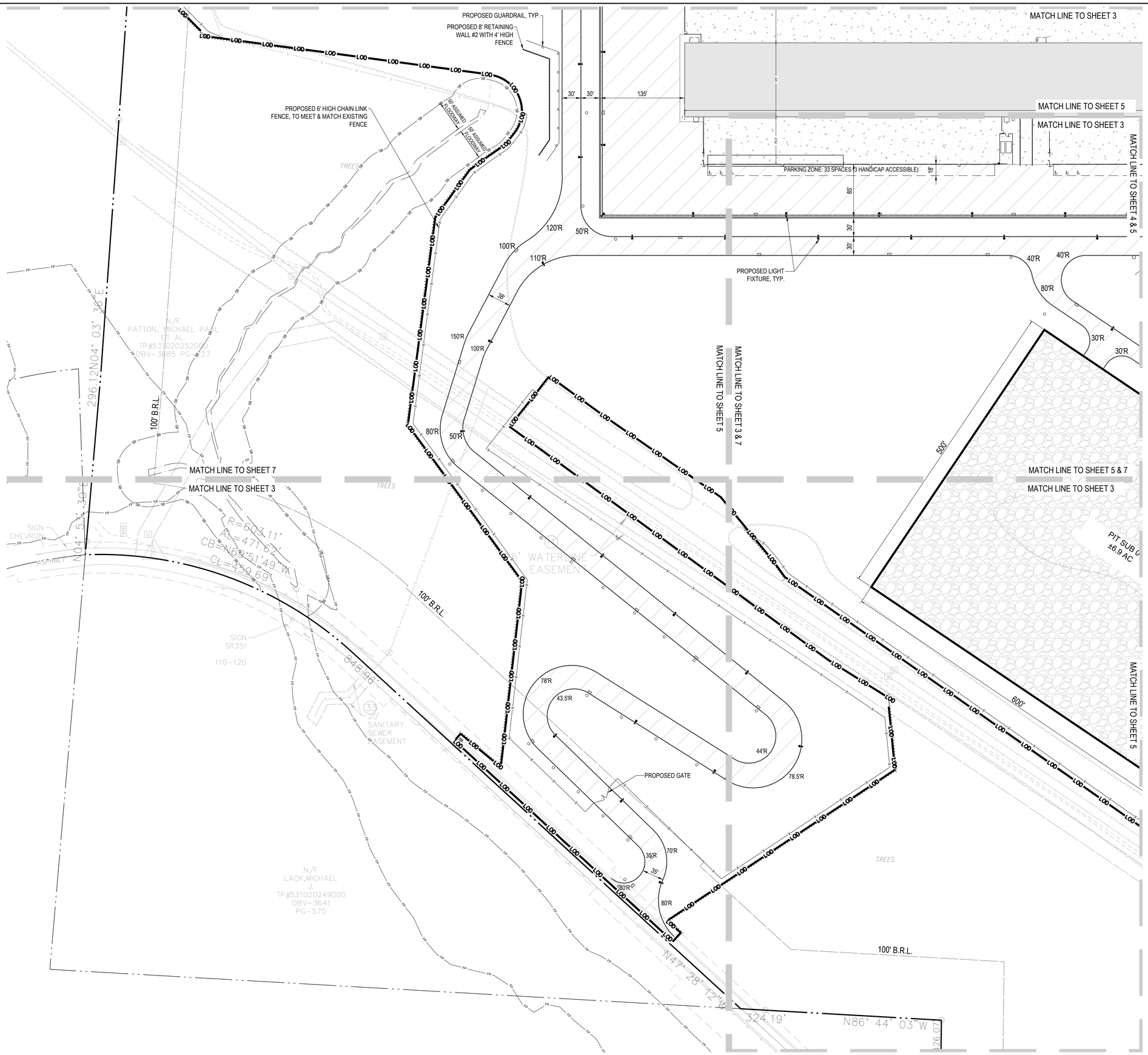
DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

SHEET TITLE

SITE PLAN

SHEET NUMBER

C206



LEGEND

- PROPERTY LINE
- PROPOSED BUILDING
- PROPOSED GRAVEL AREA
- PROPOSED CONCRETE PAVING
- PROPOSED HEAVY DUTY ASPHALT PAVING
- PROPOSED POND
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- PROPOSED SWM POND
- REGULATED STREAM (CENTERLINE)
- ASSUMED FLOODWAY BUFFER
- NONTIDAL WETLAND
- EXISTING EASEMENT
- EXISTING FLOODPLAIN

THE CONTRACTOR SHALL NOTIFY PA ONE CALL 1-800-242-1776, THREE (3) BUSINESS DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TICKET #202612024378

SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLVILLE, MD 20721
301.430.2000

STAMP

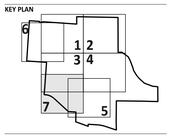
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	06/26/24
B	60% Review	06/08/24
C	90% Review	06/23/24
D	ISSUED FOR PERMIT	07/07/24

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

SITE PLAN

SHEET NUMBER

C207

EAGLE ROCK ROAD
33' RIGHT OF WAY

SIGN
WEIGHT
LIMIT
7.5 TONS

EX. WATER TOWER

WATER TOWER

ANTENNA

PENNDALE ROAD
VARIABLE RIGHT-OF-WAY

25' WATERLINE EASEMENT

FAIRLANE BLVD (S.R. 351)
VARIABLE RIGHT-OF-WAY

SIGN
CHEVRON

SIGN
SR351
110-120

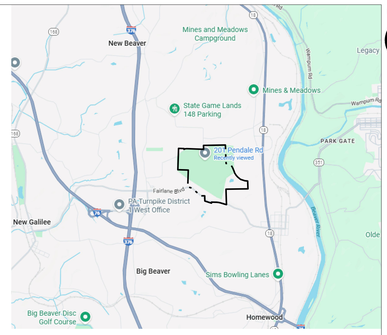
25' WATERLINE EASEMENT

25' WATERLINE EASEMENT

LOD

VICINITY MAP

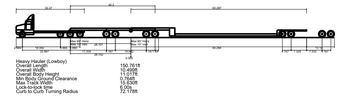
NOT TO SCALE



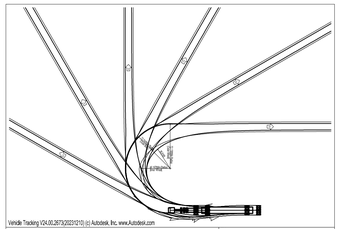
LEGEND

PROPERTY LINE

PROPOSED CURB



Heavy Hauler (Lowboy)	
Overall Length	150.7618
Overall Width	11.0556
Overall Body Height	15.4167
Min Body Ground Clearance	0.7500
Max Track Width	11.0556
Lock to Lock Time	6.0000
Curb to Curb Turning Radius	72.7764



Vehicle Tracking V24.00.2673(20231210) (c) Autodesk, Inc. www.Autodesk.com

Notes:	Title:
Turn(s) based upon front axle following a circular arc starting tangentially.	Heavy Hauler (Lowboy)

SCALE: 1" = 150'

0 150 300 450 750

PENNSYLVANIA STATE PLANE
COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITHCELLVILLE, MD 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA
REGISTERED
PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453

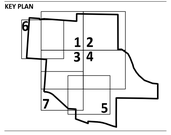
GEORGE J. HARTMAN III
PROFESSIONAL
ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
B	60% Review	06/09/26
C	90% Review	06/23/26
0	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

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DRAWING INFORMATION

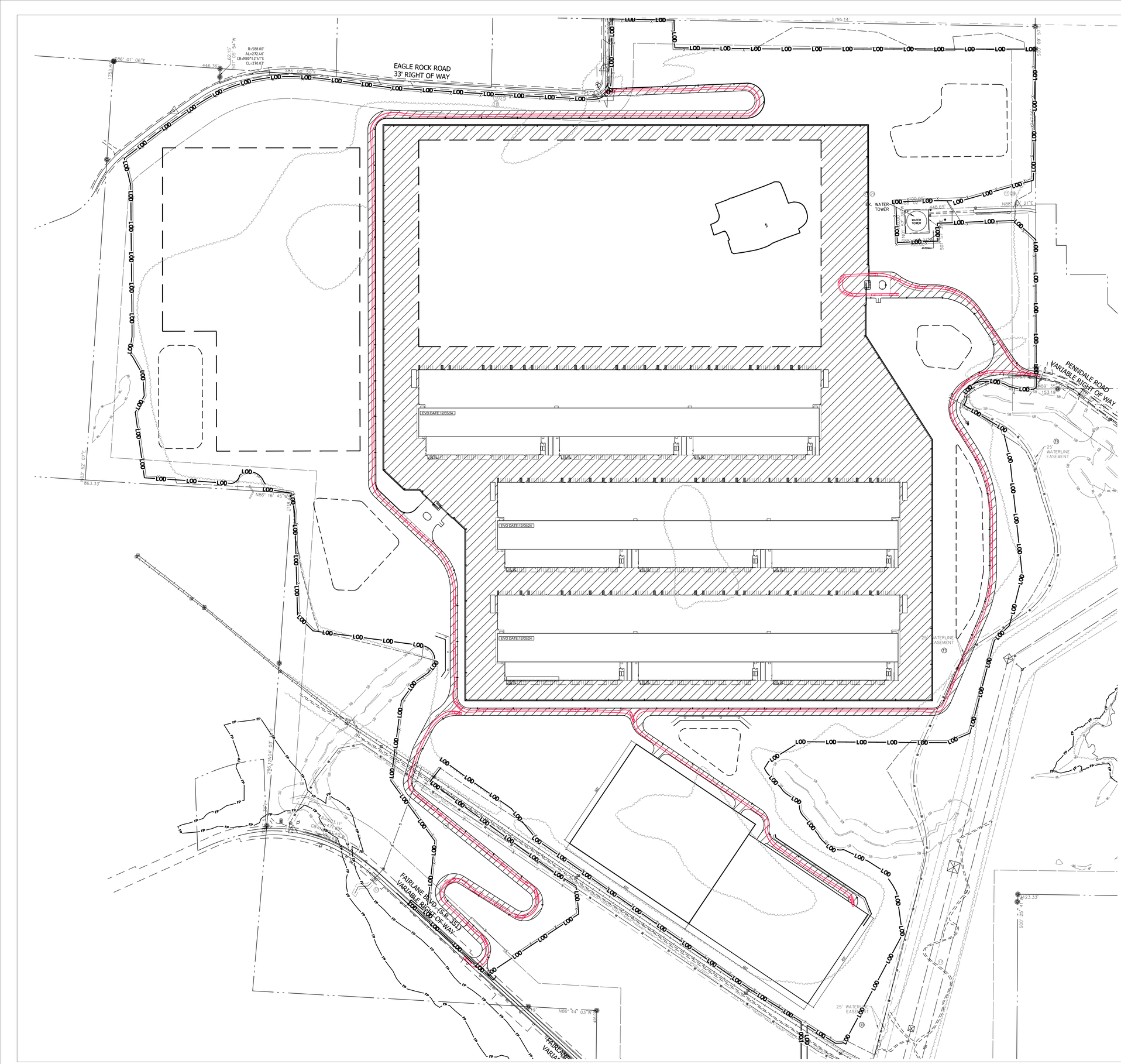
DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

LOWBOY TRUCK TURNING EXHIBIT

SHEET NUMBER

C210


EAGLE ROCK ROAD
33' RIGHT OF WAY
PENNDALE ROAD
VARIABLE RIGHT OF WAY
FAIRLANE BLVD. (S.R. 351)
VARIABLE RIGHT OF WAY
EVO DATE: 12/05/24
EVO DATE: 12/05/24
EVO DATE: 12/05/24
EK WATER TOWER
WATER TOWER
25' WATERLINE EASEMENT
25' WATER EASEMENT
LOD
FP
N86° 01' 06"E
1795.14
N86° 16' 45"W
863.33
N88° 21'E
N88° 44' 03"W
S89° 38' 30"E
153.19
S23° 33'E
448.69
446.36'
R=588.00'
AL=272.46'
CB=N87°42'47"E
CL=270.03'
R=25.00'
AL=39.11'
CB=S43°45'42"E
CL=35.29'
R=1,000.00'
AL=1,000.00'
CB=S89°59'59"E
CL=1,000.00

EAGLE ROCK ROAD
33' RIGHT OF WAY

PENNDALE ROAD
VARIABLE RIGHT OF WAY

FAIRLANE BLVD. (S.R. 351)
VARIABLE RIGHT OF WAY

EVO DATE: 12/05/24

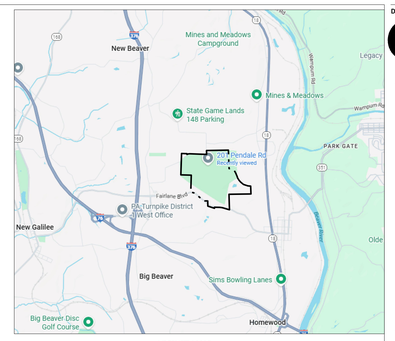
EVO DATE: 12/05/24

EVO DATE: 12/05/24

25' WATERLINE EASEMENT

25' WATERLINE EASEMENT

25' WATERLINE EASEMENT



VICINITY MAP
NOT TO SCALE

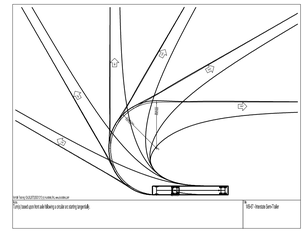
LEGEND

PROPERTY LINE

PROPOSED CURB

WB-67 - Interstate Semi-Trailer

Overall Length	74.000ft
Overall Width	8.500ft
Overall Body Height	12.727ft
Min Body Ground Clearance	1.422ft
Track Width	8.500ft
Lock-to-lock time	6.0s
Curb to Curb Turning Radius	45.000ft



SCALE: 1" = 150'

0 150 300 450 750

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITHCELLVILLE, MD 20721
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STAMP

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ENGINEER
No. PE076453

GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
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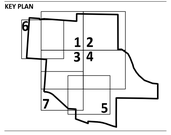
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



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switch
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702-468-5873

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DRAWING INFORMATION

DATE: JUNE 2026
PROJECT NUMBER: 25010482

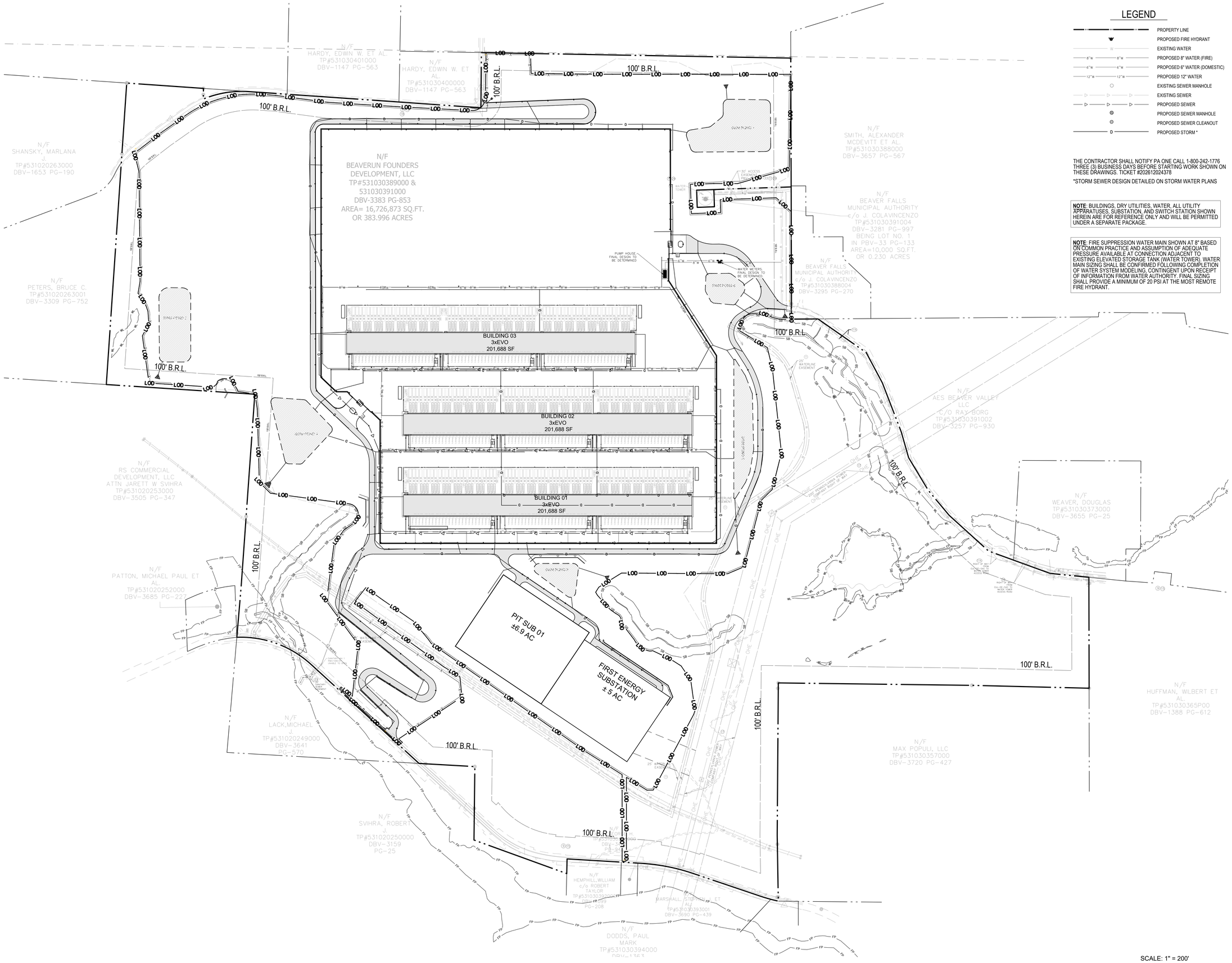
DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

SHEET TITLE

WB67 TRUCK TURN EXHIBIT

SHEET NUMBER

C212



LEGEND

- PROPERTY LINE
- PROPOSED FIRE HYDRANT
- EXISTING WATER
- PROPOSED 8" WATER (FIRE)
- PROPOSED 6" WATER (DOMESTIC)
- PROPOSED 12" WATER
- EXISTING SEWER MANHOLE
- EXISTING SEWER
- PROPOSED SEWER
- PROPOSED SEWER MANHOLE
- PROPOSED SEWER CLEANOUT
- PROPOSED STORM *

THE CONTRACTOR SHALL NOTIFY PA ONE CALL 1-800-242-1776 THREE (3) BUSINESS DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TICKET #20261024378

*STORM SEWER DESIGN DETAILED ON STORM WATER PLANS

NOTE: BUILDINGS, DRY UTILITIES, WATER, ALL UTILITY APPARATUSES, SUBSTATION, AND SWITCH STATION SHOWN HEREIN ARE FOR REFERENCE ONLY AND WILL BE PERMITTED UNDER A SEPARATE PACKAGE.

NOTE: FIRE SUPPRESSION WATER MAIN SHOWN AT 8" BASED ON COMMON PRACTICE AND ASSUMPTION OF ADEQUATE PRESSURE AVAILABLE AT CONNECTION ADJACENT TO EXISTING ELEVATED STORAGE TANK (WATER TOWER). WATER MAIN SIZING SHALL BE CONFIRMED FOLLOWING COMPLETION OF WATER SYSTEM MODELING, CONTINGENT UPON RECEIPT OF INFORMATION FROM WATER AUTHORITY. FINAL SIZING SHALL PROVIDE A MINIMUM OF 20 PSI AT THE MOST REMOTE FIRE HYDRANT.

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSBURG, KY, 20751
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076453

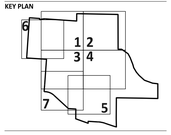
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	50% Review	05/26/26
B	60% Review	06/08/26
C	90% Review	06/23/26
0	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

THIS DOCUMENT CONSTITUTES THE CONFIDENTIAL AND PROPRIETARY INFORMATION OF SWITCH. NOT TO BE SHARED, MODIFIED, OR DUPLICATED WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF SWITCH.

DRAWING INFORMATION

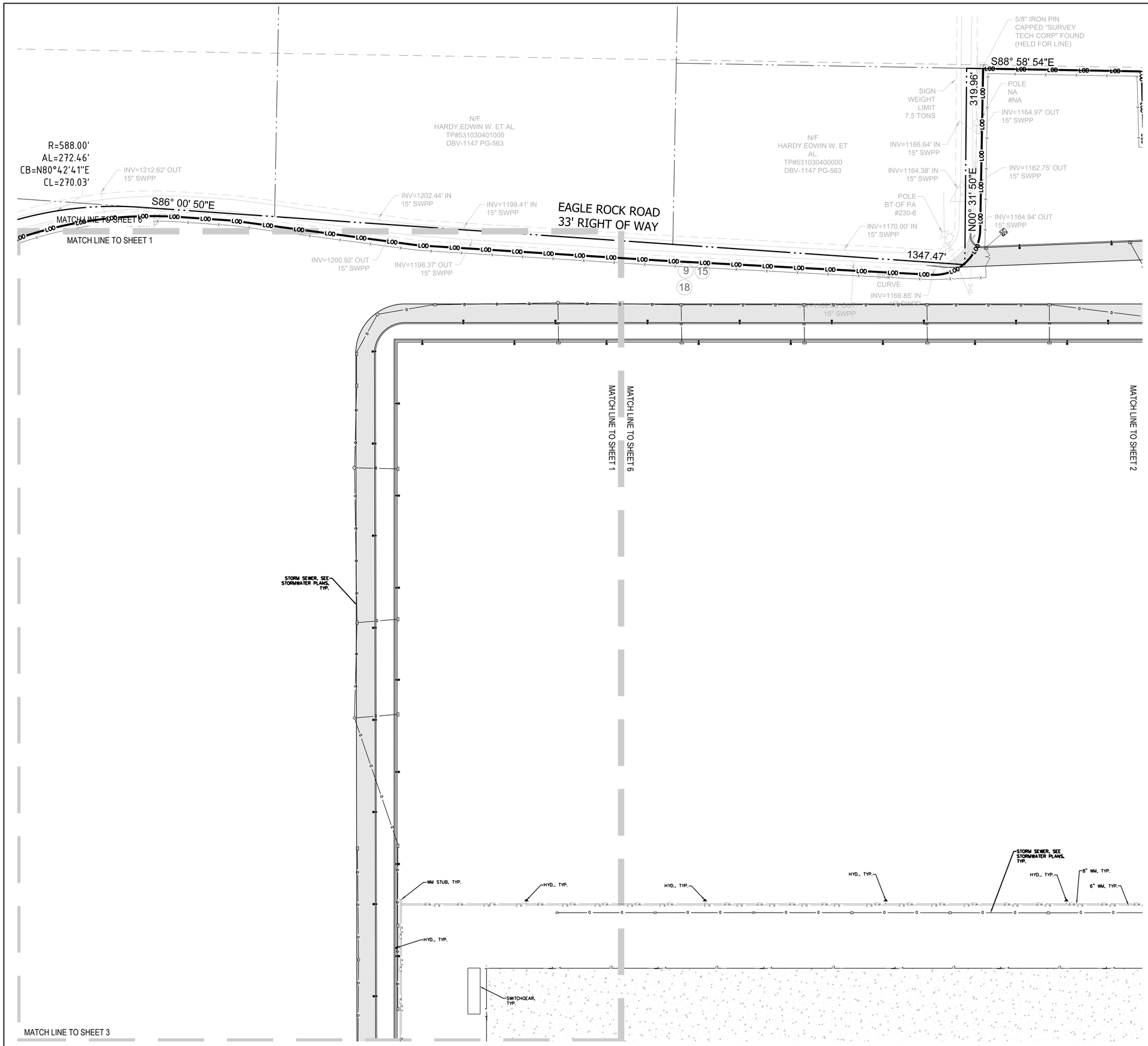
DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

OVERALL UTILITY PLAN

SHEET NUMBER

C300



LEGEND

	PROPERTY LINE
	PROPOSED FIRE HYDRANT
W	EXISTING WATER
8"W 8"W	PROPOSED 8" WATER (FIRE)
6"W 6"W	PROPOSED 6" WATER (DOMESTIC)
12"W 12"W	PROPOSED 12" WATER
	EXISTING SEWER MANHOLE
	EXISTING SEWER
	PROPOSED SEWER
	PROPOSED SEWER MANHOLE
	PROPOSED SEWER CLEANOUT
D	PROPOSED STORM *

THE CONTRACTOR SHALL NOTIFY PA ONE CALL 1-800-242-1776 THREE (3) BUSINESS DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TICKET #202612024378

*STORM SEWER DESIGN DETAILED ON STORM WATER PLANS

NOTE: BUILDINGS, DRY UTILITIES, WATER, ALL UTILITY APPARATUSES, SUBSTATION, AND SWITCH STATION SHOWN HEREIN ARE FOR REFERENCE ONLY AND WILL BE PERMITTED UNDER A SEPARATE PACKAGE.

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SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD., SUITE 200
MITCHELLVILLE, MD 20721
301.430.2000

STAMP

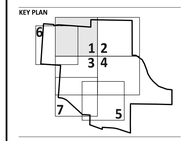
COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
B	60% Review	06/26/26
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OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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DRAWING INFORMATION

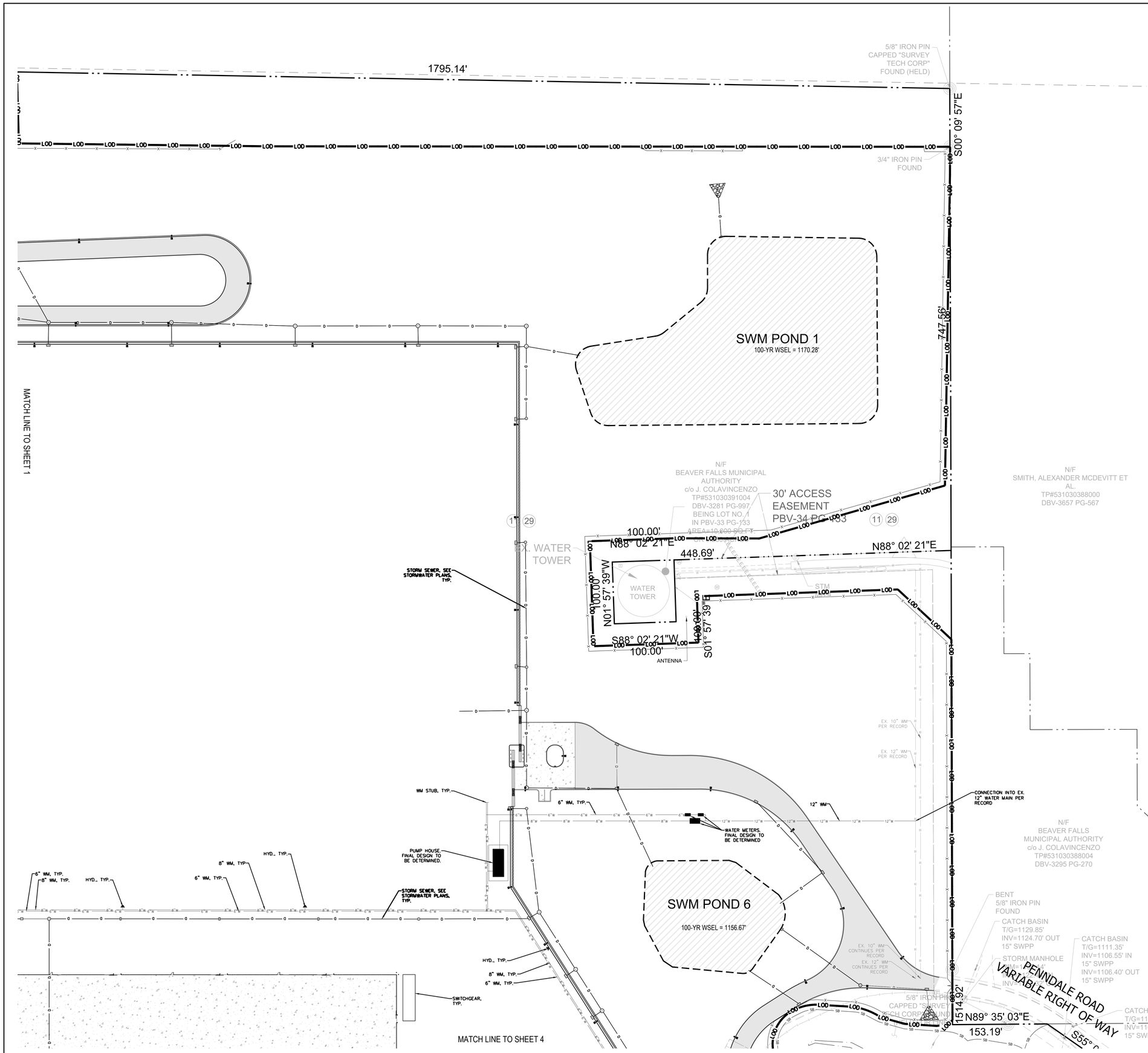
DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

UTILITY PLAN

SHEET NUMBER

C301



LEGEND

- PROPERTY LINE
- PROPOSED FIRE HYDRANT
- EXISTING WATER
- PROPOSED 8" WATER (FIRE)
- PROPOSED 6" WATER (DOMESTIC)
- PROPOSED 12" WATER
- EXISTING SEWER MANHOLE
- EXISTING SEWER
- PROPOSED SEWER
- PROPOSED SEWER MANHOLE
- PROPOSED SEWER CLEANOUT
- PROPOSED STORM *

THE CONTRACTOR SHALL NOTIFY PA ONE CALL 1-800-242-1776 THREE (3) BUSINESS DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TICKET #20261202437 8

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PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

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11721 WOODMORE RD, SUITE 200
MITCHELLSBURG, KY, 40751
502.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076453

GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

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PROJECT INFORMATION

SWITCH PIT 01-03
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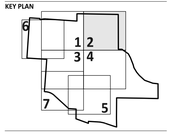
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



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OWNER

switch
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702-468-5873

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PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

UTILITY PLAN

SHEET NUMBER

C302

MATCH LINE TO SHEET 1

N86° 16' 45"W
1118.44'

N04° 03' 36"E
296.12'

N/F
RS COMMERCIAL
DEVELOPMENT, LLC
ATTN JARETT W SVIHRA
TP#531020253000
DBV-3505 PG-347

N/F
PATTON, MICHAEL PAUL ET
AL
TP#531020252000
DBV-3685 PG-2

LEANING
5/8" IRON PIN
FOUND (HELD FOR LINE)

EASTERN GAS
RANSMISSION GAS
LINES

100-YR WSEL = 1176.18'

SWM POND 4

MATCH LINE TO SHEET 3
MATCH LINE TO SHEET 6
MATCH LINE TO SHEET 4
MATCH LINE TO SHEET 7
MATCH LINE TO SHEET 5
MATCH LINE TO SHEET 4 & 5
MATCH LINE TO SHEET 3 & 7
MATCH LINE TO SHEET 5 & 7

8" WM, TYP.
6" WM, TYP.
HYD., TYP.
SCO, TYP.
6" PVC SAN
8" PVC SAN
SMH-H
SMH-I
SMH-J
SMH-K
SMH-L
STORM SEWER, SEE STORMWATER PLANS, TYP.
SMH-G
SMH-F
SMH-E
SMH-P
SMH-Q
SMH-R
SWITCHGEAR, TYP.
SMH-D
SMH-B
SMH-C
SMH-W
SMH-X
SMH-Y
SMH-A
CONNECT INTO EX. SAN
CONTRACTOR TO VERIFY THE ACTUAL HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES THAT REQUIRE TEST PITS. CONTRACTOR TO NOTIFY ATWELL LLC IMMEDIATELY IF THERE ARE ANY DISCREPANCIES
APPROX LOCATION OF EX. SCO
LOD
FP
500'

LEGEND

- PROPERTY LINE
- PROPOSED FIRE HYDRANT
- EXISTING WATER
- PROPOSED 8" WATER (FIRE)
- PROPOSED 6" WATER (DOMESTIC)
- PROPOSED 12" WATER
- EXISTING SEWER MANHOLE
- EXISTING SEWER
- PROPOSED SEWER
- PROPOSED SEWER MANHOLE
- PROPOSED SEWER CLEANOUT
- PROPOSED STORM *

THE CONTRACTOR SHALL NOTIFY PA ONE CALL 1-800-242-1776 THREE (3) BUSINESS DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TICKET #20261202437 8

*STORM SEWER DESIGN DETAILED ON STORM WATER PLANS

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SCALE: 1" = 60'
0 60 120 180 300

PENNSYLVANIA STATE PLANE
COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME
ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSVILLE, MD 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453

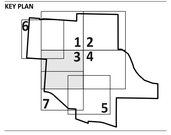
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	09/26/25
B	60% Review	06/08/26
C	90% Review	06/23/26
0	ISSUED FOR PERMIT	07/20/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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DRAWING INFORMATION

DATE: JUNE 2026
PROJECT NUMBER: 25010482

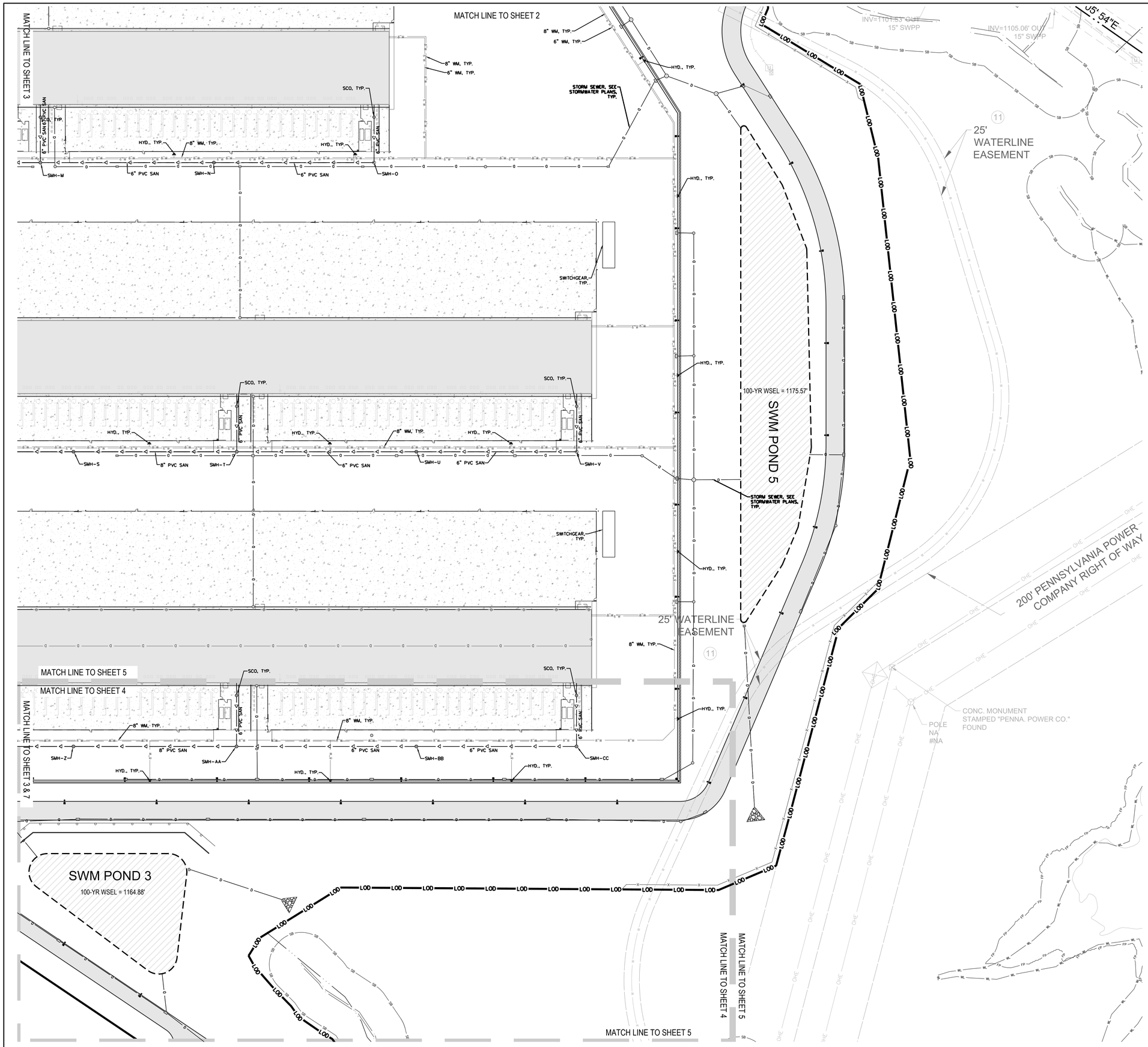
DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

SHEET TITLE

UTILITY PLAN

SHEET NUMBER

C303



LEGEND

	PROPERTY LINE
	PROPOSED FIRE HYDRANT
	EXISTING WATER
8"W 8"W	PROPOSED 8" WATER (FIRE)
6"W 6"W	PROPOSED 6" WATER (DOMESTIC)
12"W 12"W	PROPOSED 12" WATER
	EXISTING SEWER MANHOLE
	EXISTING SEWER
	PROPOSED SEWER
	PROPOSED SEWER MANHOLE
	PROPOSED SEWER CLEANOUT
D	PROPOSED STORM *

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SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD., SUITE 200
MITCHELLVILLE, MD 20721
301.430.2000

STAMP

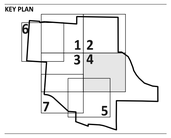
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
B	60% Review	06/08/26
C	90% Review	06/23/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

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DRAWING INFORMATION

DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

UTILITY PLAN

SHEET NUMBER

C304

MATCH LINE TO SHEET 3

MATCH LINE TO SHEET 4

MATCH LINE TO SHEET 3 & 7

MATCH LINE TO SHEET 3 & 5

MATCH LINE TO SHEET 4

MATCH LINE TO SHEET 5 & 7

MATCH LINE TO SHEET 3

MATCH LINE TO SHEET 5

MATCH LINE TO SHEET 4

MATCH LINE TO SHEET 7

MATCH LINE TO SHEET 5

8" WM, TYP.

8" PVC SAN

6" PVC SAN

SMH-X

SMH-Y

SMH-Z

SMH-AA

SMH-BB

SMH-CC

HYD., TYP.

STORM SEWER, SEE STORMWATER PLANS, TYP.

SWM POND 3

100-YR WSEL = 1164.88'

59.0

500'

600'

450'

PIT SUB 01
±6.9 AC

FIRST ENERGY
SUBSTATION
± 5 AC

LOD

EASTERN GAS
TRANSMISSION GAS
LINE

EASTERN GAS
TRANSMISSION GAS
LINES

25' WATERLINE
EASEMENT

200' PENNSYLVANIA POWER
COMPANY RIGHT OF WAY

OHE

POLE
NA
#NA

5/8" IRON PIN
CAPPED "SURVEY
TECH CORP" FOUND
(HELD FOR LINE)

324.19'

N86° 44' 03"W

426.07'

5/8" IRON PIN
CAPPED "SURVEY
TECH CORP"
FOUND (HELD)

N/F
SVIHRA, ROBERT
J.
TP#531020250000
DBV-3159 PG-25

CATCH BASIN
T/G=1073.96'
FILLED WITH
DEBRIS

LEGEND

- PROPERTY LINE
- PROPOSED FIRE HYDRANT
- EXISTING WATER
- PROPOSED 8" WATER (FIRE)
- PROPOSED 6" WATER (DOMESTIC)
- PROPOSED 12" WATER
- EXISTING SEWER MANHOLE
- EXISTING SEWER
- PROPOSED SEWER
- PROPOSED SEWER MANHOLE
- PROPOSED SEWER CLEANOUT
- PROPOSED STORM *

THE CONTRACTOR SHALL NOTIFY PA ONE CALL 1-800-242-1776 THREE (3) BUSINESS DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TICKET #20261202437 8

*STORM SEWER DESIGN DETAILED ON STORM WATER PLANS

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SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

N

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITHDELL, MD 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA
REGISTERED
PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453

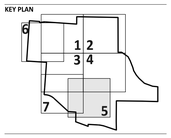
GEORGE J. HARTMAN III
PROFESSIONAL
ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



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A	30% Review	05/26/26
B	60% Review	06/26/26
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OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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DRAWING INFORMATION

DATE: JUNE 2026
PROJECT NUMBER: 25010482

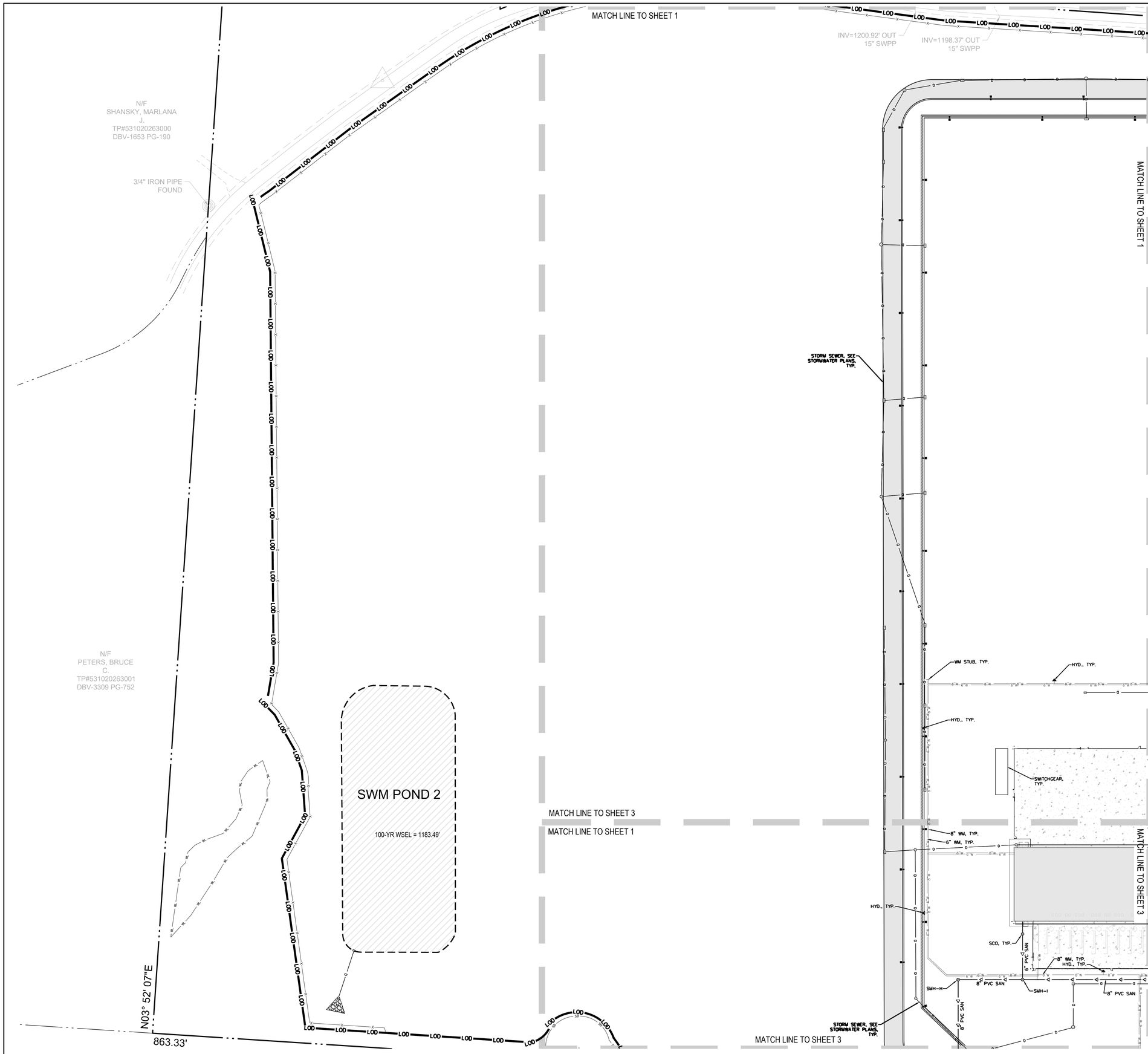
DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

SHEET TITLE

UTILITY PLAN

SHEET NUMBER

C305



LEGEND

- PROPERTY LINE
- PROPOSED FIRE HYDRANT
- EXISTING WATER
- PROPOSED 8" WATER (FIRE)
- PROPOSED 6" WATER (DOMESTIC)
- PROPOSED 12" WATER
- EXISTING SEWER MANHOLE
- EXISTING SEWER
- PROPOSED SEWER
- PROPOSED SEWER MANHOLE
- PROPOSED SEWER CLEANOUT
- PROPOSED STORM *

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SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

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STAMP

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GEORGE J. HARTMAN III
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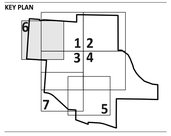
SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/29/26
B	60% Review	06/09/26
C	90% Review	06/23/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

THIS DOCUMENT CONSTITUTES THE CONFIDENTIAL AND PROPRIETARY INFORMATION OF SWITCH. NOT TO BE SHARED, MODIFIED, OR DUPLICATED WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF SWITCH.

DRAWING INFORMATION

DATE: JUNE 2026
PROJECT NUMBER: 25010482

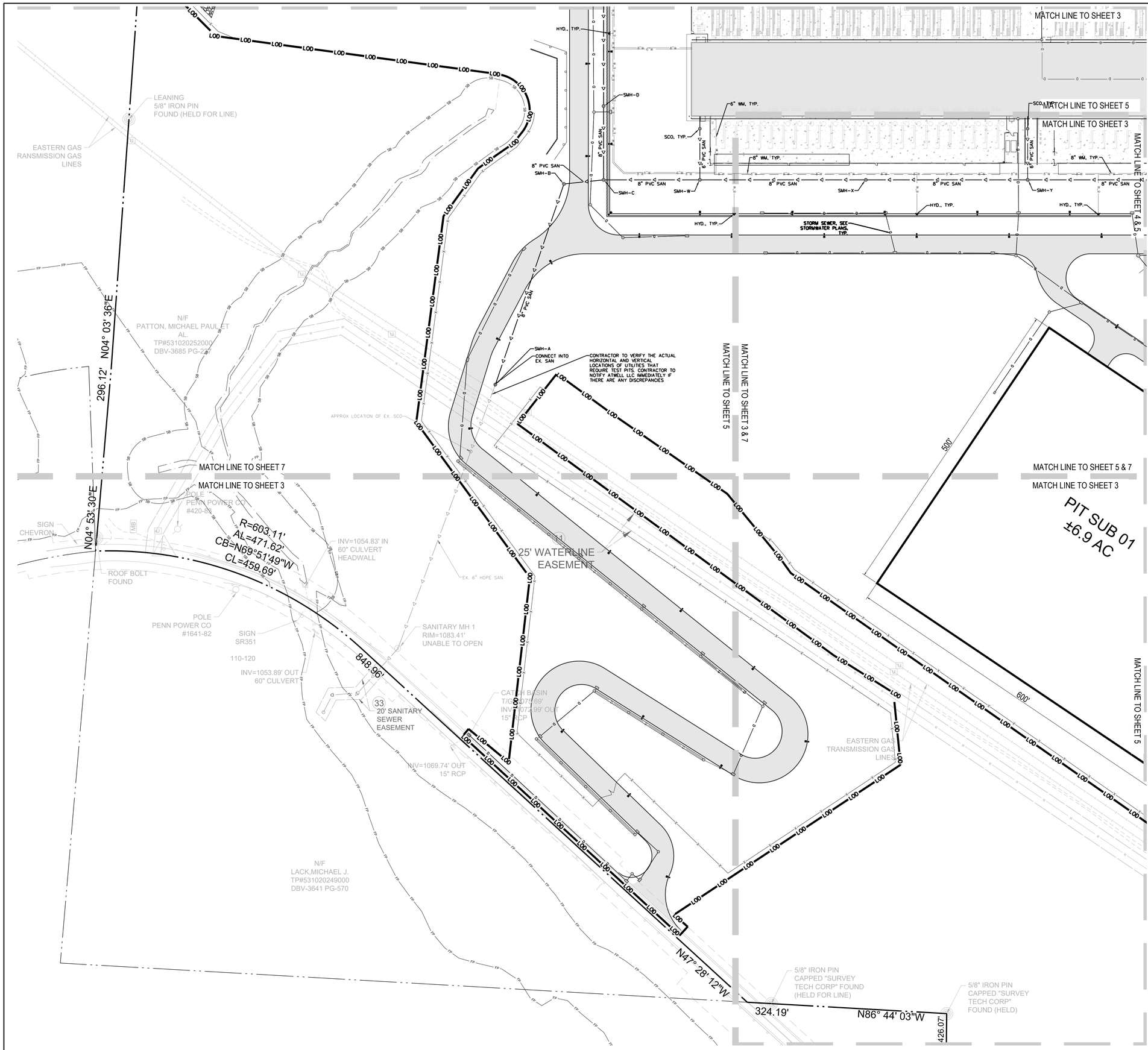
DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

SHEET TITLE

UTILITY PLAN

SHEET NUMBER

C306



LEGEND

- PROPERTY LINE
- PROPOSED FIRE HYDRANT
- EXISTING WATER
- PROPOSED 8" WATER (FIRE)
- PROPOSED 6" WATER (DOMESTIC)
- PROPOSED 12" WATER
- EXISTING SEWER MANHOLE
- EXISTING SEWER
- PROPOSED SEWER
- PROPOSED SEWER MANHOLE
- PROPOSED SEWER CLEANOUT
- PROPOSED STORM *

THE CONTRACTOR SHALL NOTIFY PA ONE CALL 1-800-242-1776 THREE (3) BUSINESS DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TICKET #20261204378

*STORM SEWER DESIGN DETAILED ON STORM WATER PLANS

NOTE: BUILDINGS, DRY UTILITIES, WATER, ALL UTILITY APPARATUSES, SUBSTATION, AND SWITCH STATION SHOWN HEREIN ARE FOR REFERENCE ONLY AND WILL BE PERMITTED UNDER A SEPARATE PACKAGE.

NOTE: FIRE SUPPRESSION WATER MAIN SHOWN AT 8" BASED ON COMMON PRACTICE AND ASSUMPTION OF ADEQUATE PRESSURE AVAILABLE AT CONNECTION ADJACENT TO EXISTING ELEVATED STORAGE TANK (WATER TOWER). WATER MAIN SIZING SHALL BE CONFIRMED FOLLOWING COMPLETION OF WATER SYSTEM MODELING, CONTINGENT UPON RECEIPT OF INFORMATION FROM WATER AUTHORITY. FINAL SIZING SHALL PROVIDE A MINIMUM OF 20 PSI AT THE MOST REMOTE FIRE HYDRANT.

SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD. SUITE 200
MITCHELLSBURG, 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076453

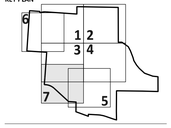
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	04/26/26
B	60% Review	06/08/26
C	90% Review	06/19/26
D	ISSUED FOR PERMIT	07/20/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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DRAWING INFORMATION

DATE: JUNE 2026
PROJECT NUMBER: 25010482

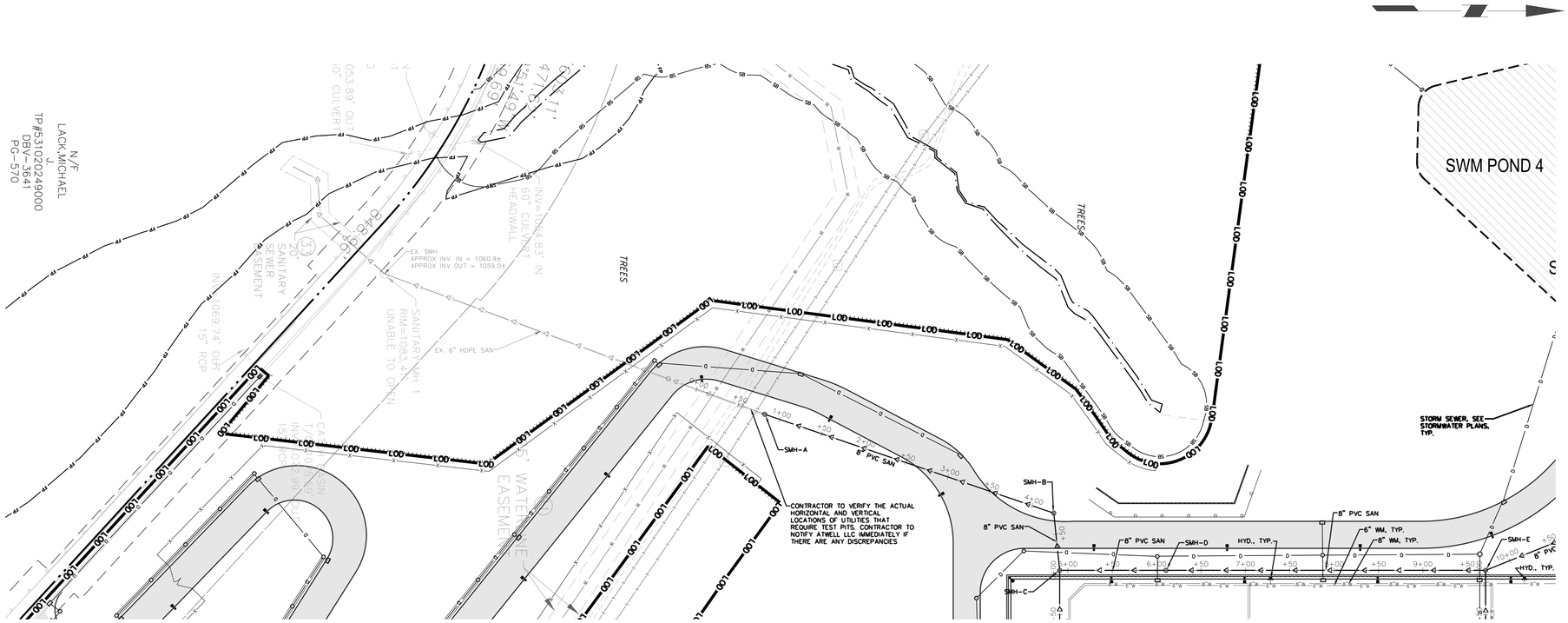
DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

SHEET TITLE

UTILITY PLAN

SHEET NUMBER

C307



LEGEND

- PROPERTY LINE
- PROPOSED FIRE HYDRANT
- EXISTING WATER
- PROPOSED 8" WATER (FIRE)
- PROPOSED 6" WATER (DOMESTIC)
- PROPOSED 12" WATER
- EXISTING SEWER MANHOLE
- EXISTING SEWER
- PROPOSED SEWER
- PROPOSED SEWER MANHOLE
- PROPOSED SEWER CLEANOUT
- PROPOSED STORM *

THE CONTRACTOR SHALL NOTIFY PA ONE CALL 1-800-242-1776 THREE (3) BUSINESS DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TICKET #20261024378

*STORM SEWER DESIGN DETAILED ON STORM WATER PLANS

NOTE: BUILDINGS, DRY UTILITIES, WATER, ALL UTILITY APPARATUSES, SUBSTATION, AND SWITCH STATION SHOWN HEREIN ARE FOR REFERENCE ONLY AND WILL BE PERMITTED UNDER A SEPARATE PACKAGE.

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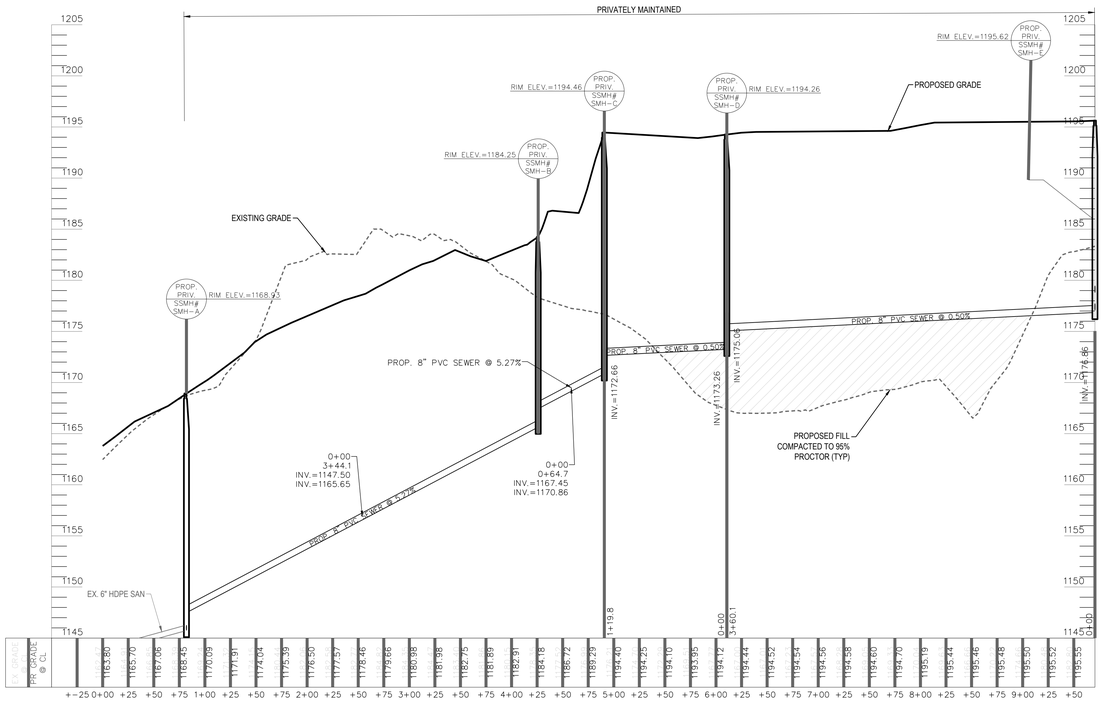


SEWER MAIN SMH-A TO SMH-E

GRAPHIC SCALE: 1"=60' (H), 1"=6' (V)

0 6 12 24 ft.

0 60 120 240 ft.

PENNSYLVANIA STATE PLANE
COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITHCELLSVILLE, 20721
301.430.2000

STAMP

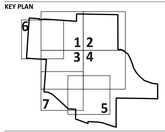
COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



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OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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DRAWING INFORMATION

DATE: JUNE 2026
PROJECT NUMBER: 25010482

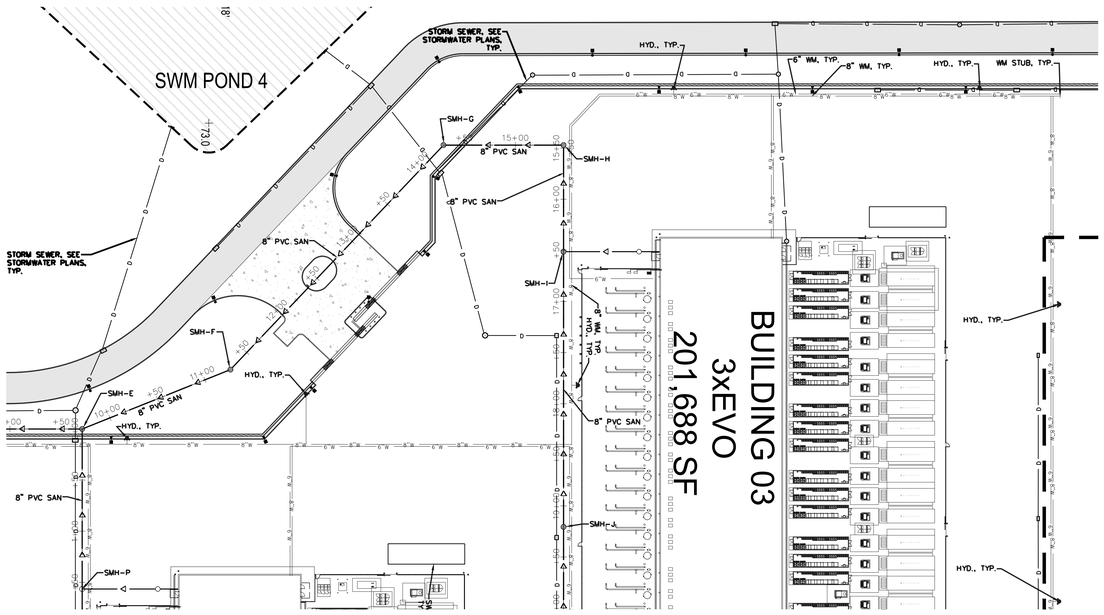
DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

SHEET TITLE

SANITARY UTILITY PROFILES

SHEET NUMBER

C310



PENNSYLVANIA STATE PLANE
COORDINATE SYSTEM, NAD83

LEGEND

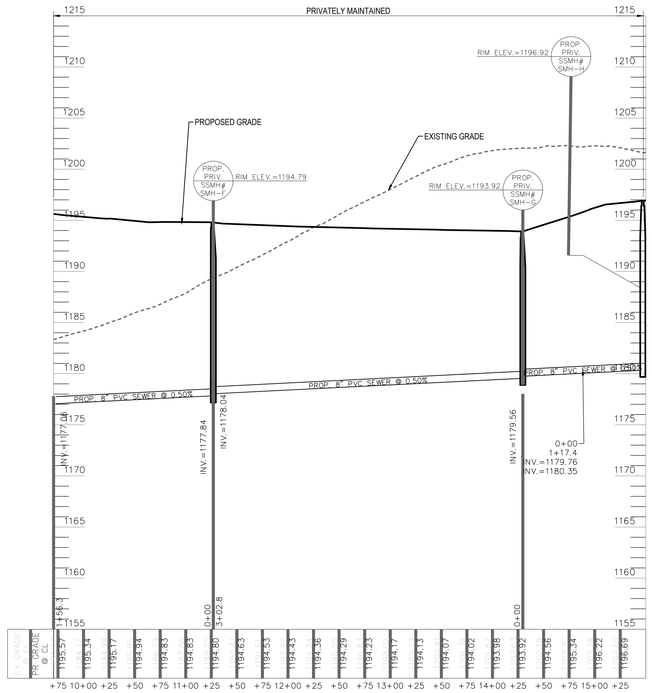
- PROPERTY LINE
- PROPOSED FIRE HYDRANT
- EXISTING WATER
- PROPOSED 8" WATER (FIRE)
- PROPOSED 6" WATER (DOMESTIC)
- PROPOSED 12" WATER
- EXISTING SEWER MANHOLE
- EXISTING SEWER
- PROPOSED SEWER
- PROPOSED SEWER MANHOLE
- PROPOSED SEWER CLEANOUT
- PROPOSED STORM *

THE CONTRACTOR SHALL NOTIFY PA ONE CALL 1-800-242-1776 THREE (3) BUSINESS DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TICKET #20261202437 8

*STORM SEWER DESIGN DETAILED ON STORM WATER PLANS

NOTE: BUILDINGS, DRY UTILITIES, WATER, ALL UTILITY APPARATUSES, SUBSTATION, AND SWITCH STATION SHOWN HEREIN ARE FOR REFERENCE ONLY AND WILL BE PERMITTED UNDER A SEPARATE PACKAGE.

NOTE: FIRE SUPPRESSION WATER MAIN SHOWN AT 8" BASED ON COMMON PRACTICE AND ASSUMPTION OF ADEQUATE PRESSURE AVAILABLE AT CONNECTION ADJACENT TO EXISTING ELEVATED STORAGE TANK (WATER TOWER). WATER MAIN SIZING SHALL BE CONFIRMED FOLLOWING COMPLETION OF WATER SYSTEM MODELING, CONTINGENT UPON RECEIPT OF INFORMATION FROM WATER AUTHORITY. FINAL SIZING SHALL PROVIDE A MINIMUM OF 20 PSI AT THE MOST REMOTE FIRE HYDRANT.



SEWER MAIN SMH-E TO SMH-H

PENNSYLVANIA STATE PLANE
COORDINATE SYSTEM, NAD83

GRAPHIC SCALE: 1"=60' (H), 1"=6' (V)
0 6 12 24 ft.
0 60 120 240 ft.

N

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD. SUITE 200
MITCHELLVILLE, MD 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076453

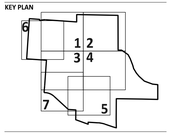
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/29/26
B	60% Review	06/08/26
C	90% Review	06/23/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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DRAWING INFORMATION

DATE: JUNE 2026
PROJECT NUMBER: 25010482

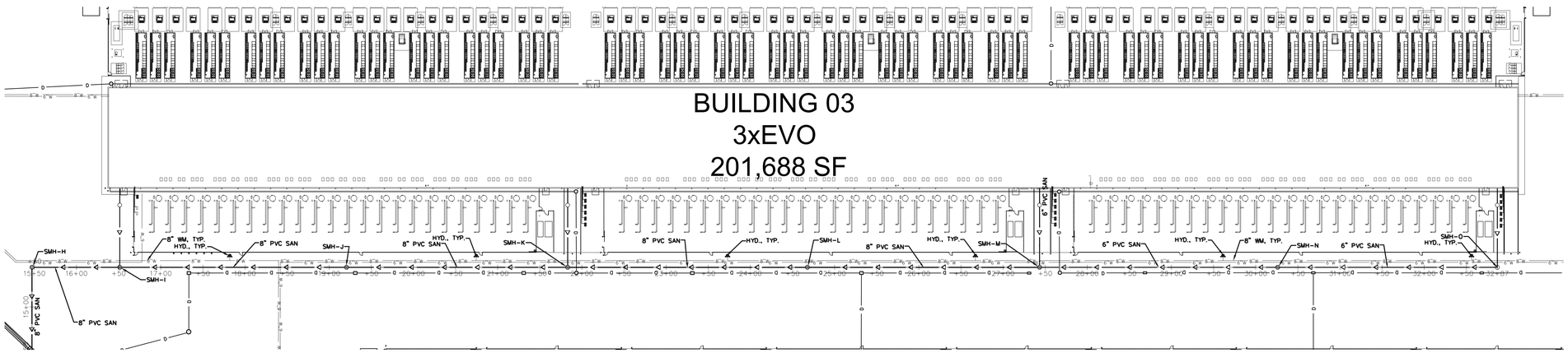
DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

SHEET TITLE

SANITARY UTILITY PROFILES

SHEET NUMBER

C311



PENNSYLVANIA STATE PLANE
COORDINATE SYSTEM, NAD83

LEGEND

- PROPERTY LINE
- PROPOSED FIRE HYDRANT
- EXISTING WATER
- PROPOSED 8" WATER (FIRE)
- PROPOSED 6" WATER (DOMESTIC)
- PROPOSED 12" WATER
- EXISTING SEWER MANHOLE
- EXISTING SEWER
- PROPOSED SEWER
- PROPOSED SEWER MANHOLE
- PROPOSED SEWER CLEANOUT
- PROPOSED STORM *

THE CONTRACTOR SHALL NOTIFY PA ONE CALL 1-800-242-1776 THREE (3) BUSINESS DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TICKET #20261224378

*STORM SEWER DESIGN DETAILED ON STORM WATER PLANS

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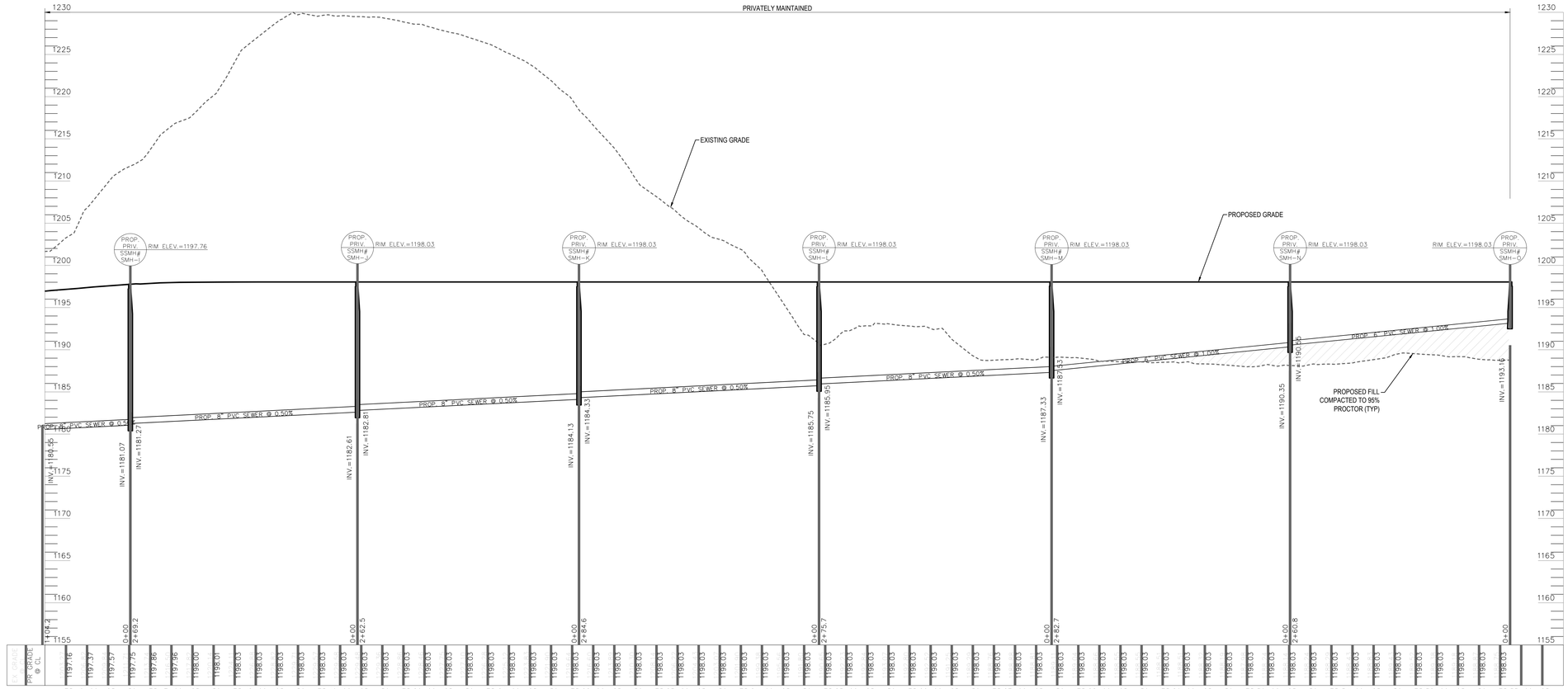


SEWER MAIN SMH-I TO SMH-O

GRAPHIC SCALE: 1"=60' (H), 1"=6' (V)

0 6 12 24 ft.
0 60 120 240 ft.

PENNSYLVANIA STATE PLANE
COORDINATE SYSTEM, NAD83

N

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD. SUITE 200
MITCHELLSVILLE, MD 20721
301.430.2000

STAMP

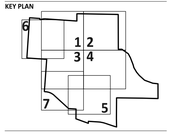
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
B	60% Review	06/08/26
C	90% Review	06/23/26
0	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

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DRAWING INFORMATION

DATE: JUNE 2026
PROJECT NUMBER: 25010482

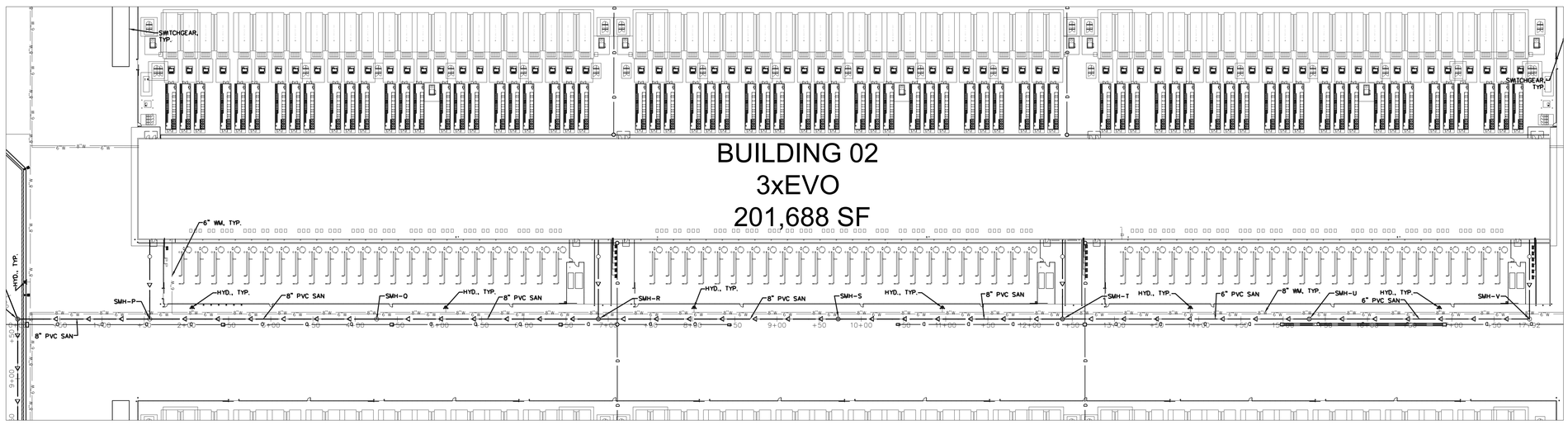
DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

SHEET TITLE

SANITARY UTILITY PROFILES

SHEET NUMBER

C312



PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

LEGEND

- PROPERTY LINE
- PROPOSED FIRE HYDRANT
- EXISTING WATER
- PROPOSED 8" WATER (FIRE)
- PROPOSED 6" WATER (DOMESTIC)
- PROPOSED 12" WATER
- EXISTING SEWER MANHOLE
- EXISTING SEWER
- PROPOSED SEWER
- PROPOSED SEWER MANHOLE
- PROPOSED SEWER CLEANOUT
- PROPOSED STORM *

THE CONTRACTOR SHALL NOTIFY PA ONE CALL 1-800-242-1776 THREE (3) BUSINESS DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TICKET #202612024378

*STORM SEWER DESIGN DETAILED ON STORM WATER PLANS

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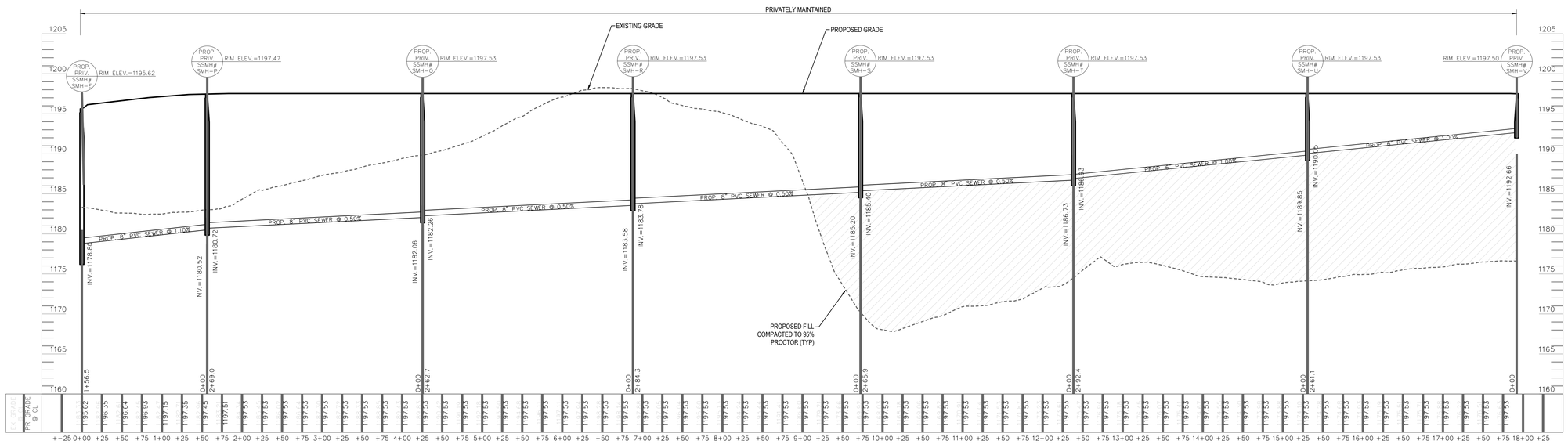


SEWER MAIN SMH-E TO SMH-V

GRAPHIC SCALE: 1"=60' (H), 1"=6' (V)

0 6 12 24 ft.

0 60 120 240 ft.

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLVILLE, MD 20721
301.430.2000

STAMP

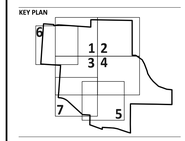
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



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OWNER

switch
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702-468-5873

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DRAWING INFORMATION

DATE: JUNE 2026
PROJECT NUMBER: 25010482

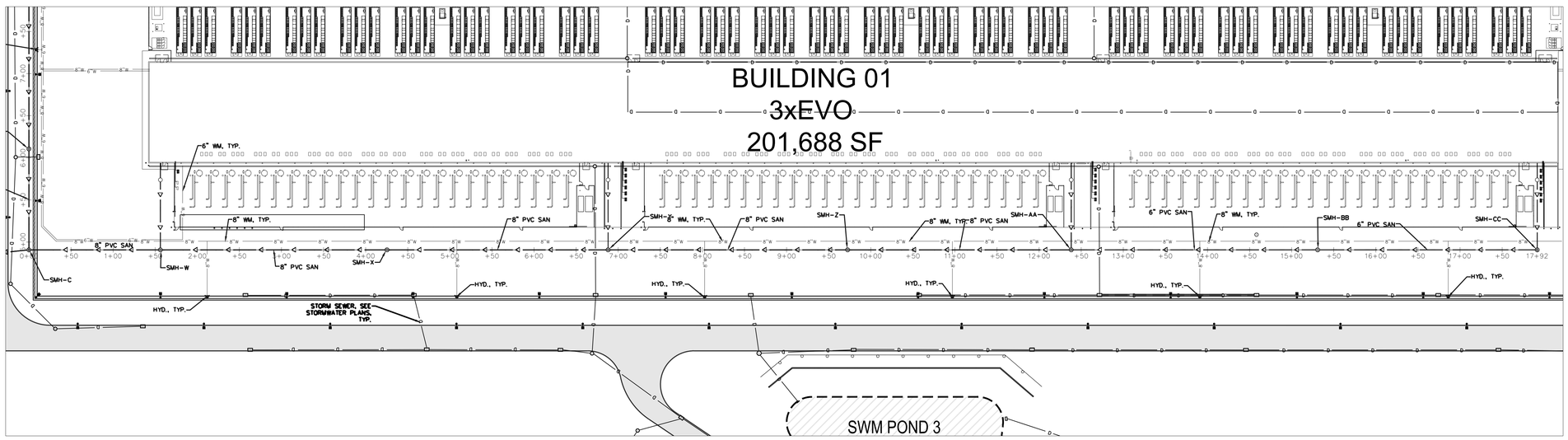
DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

SHEET TITLE

SANITARY UTILITY PROFILES

SHEET NUMBER

C313



PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

LEGEND

- PROPERTY LINE
- PROPOSED FIRE HYDRANT
- EXISTING WATER
- PROPOSED 8" WATER (FIRE)
- PROPOSED 6" WATER (DOMESTIC)
- PROPOSED 12" WATER
- EXISTING SEWER MANHOLE
- EXISTING SEWER
- PROPOSED SEWER
- PROPOSED SEWER MANHOLE
- PROPOSED SEWER CLEANOUT
- PROPOSED STORM *

THE CONTRACTOR SHALL NOTIFY PA ONE CALL 1-800-242-1776 THREE (3) BUSINESS DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TICKET #202612024378

*STORM SEWER DESIGN DETAILED ON STORM WATER PLANS

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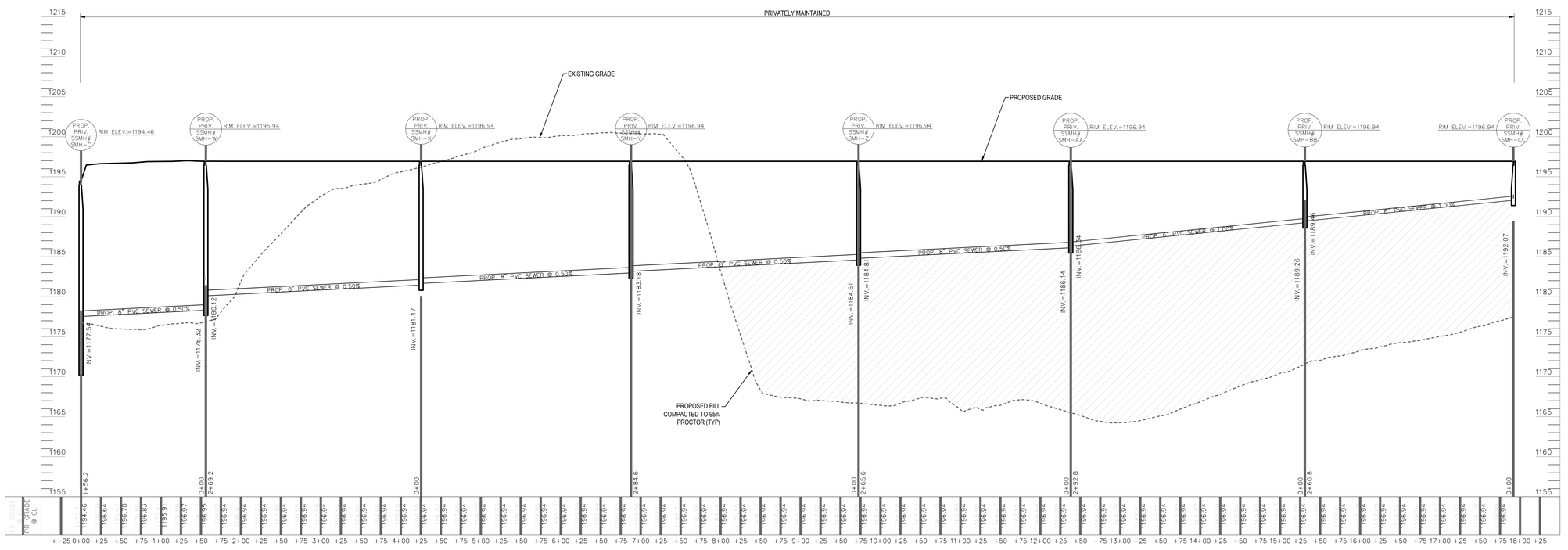


SEWER MAIN SMH-C TO SMH-CC

GRAPHIC SCALE: 1"=60' (H), 1"=6' (V)

0 6 12 24 ft.

0 60 120 240 ft.

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD., SUITE 200
MITCHELLVILLE, MD 20721
301.430.2000

STAMP

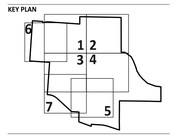
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
B	60% Review	06/08/26
C	90% Review	06/23/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

THIS DOCUMENT CONSTITUTES THE CONFIDENTIAL AND PROPRIETARY INFORMATION OF SWITCH. NOT TO BE SHARED, MODIFIED, OR DUPLICATED WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF SWITCH.

DRAWING INFORMATION

DATE: JUNE 2026
PROJECT NUMBER: 25010482

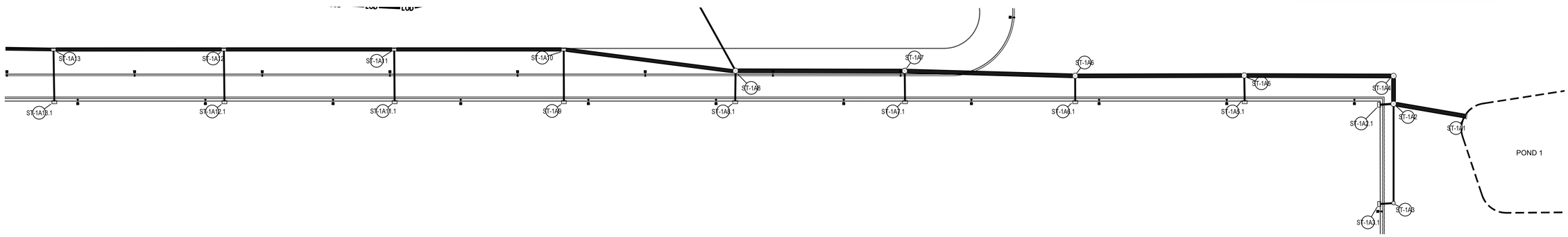
DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

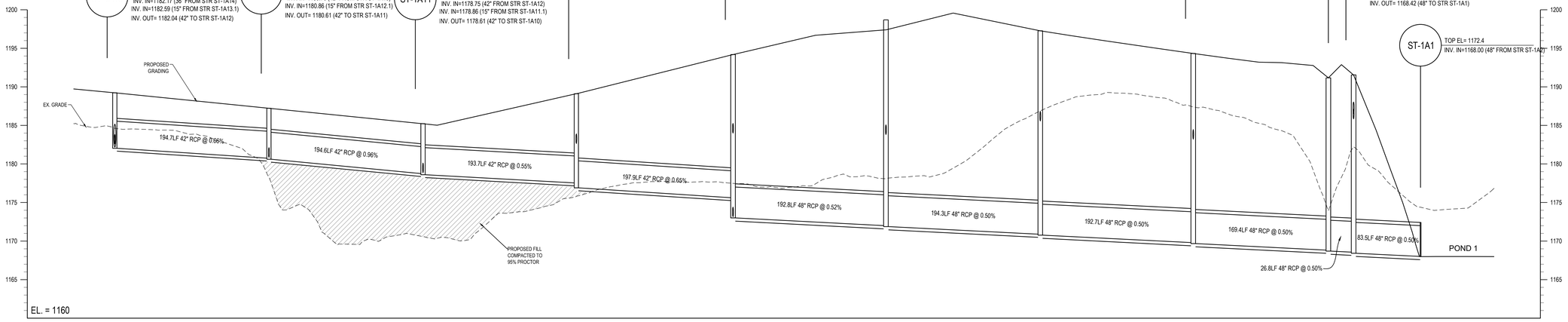
SHEET TITLE

SANITARY UTILITY PROFILES

SHEET NUMBER

C314





1A
HORZ: 1"=60'
VERT: 1"=6'

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

N

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSVILLE, MD 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453

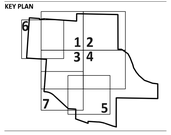
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
B	60% Review	06/08/26
C	90% Review	06/19/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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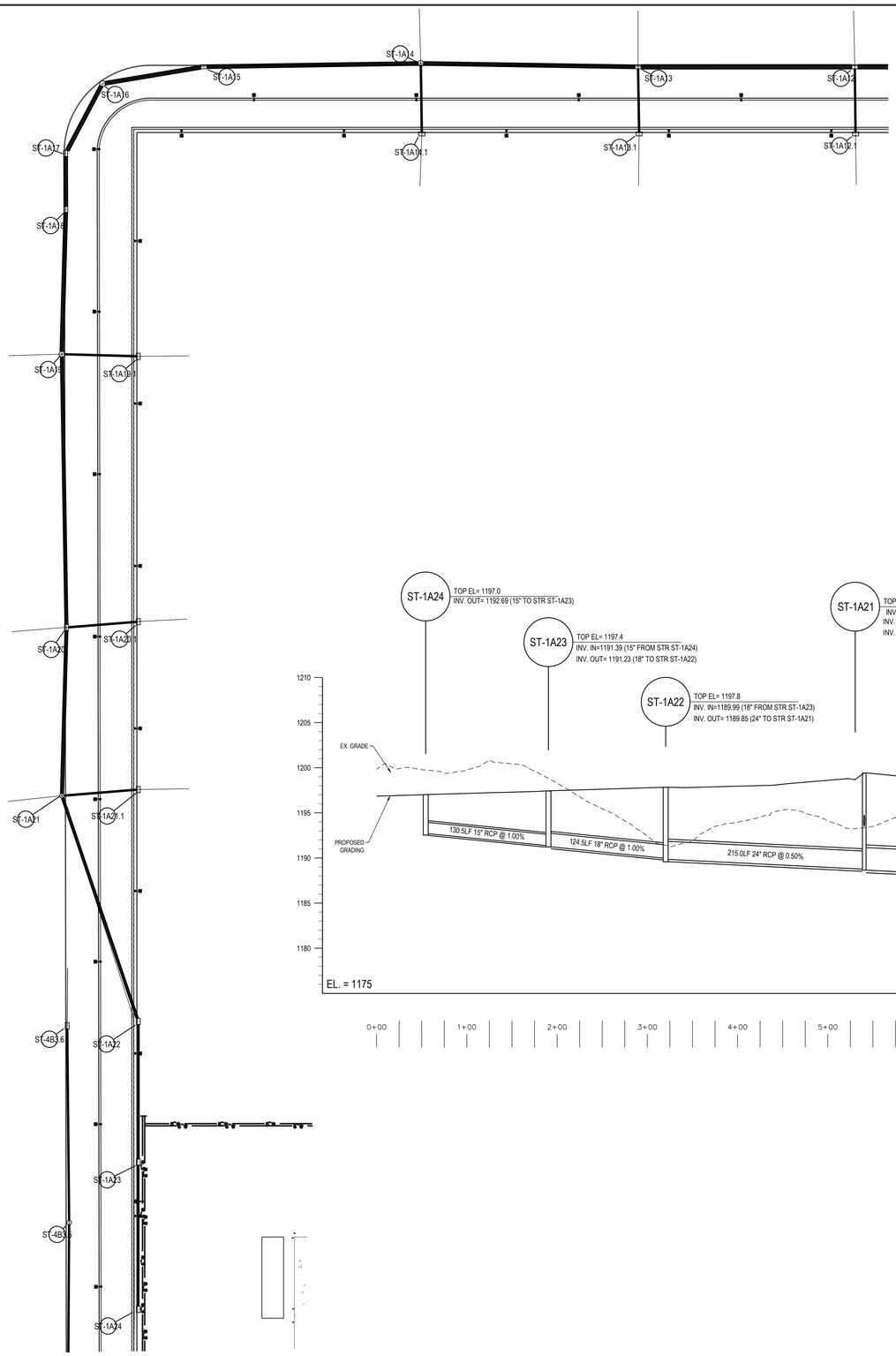
DRAWING INFORMATION

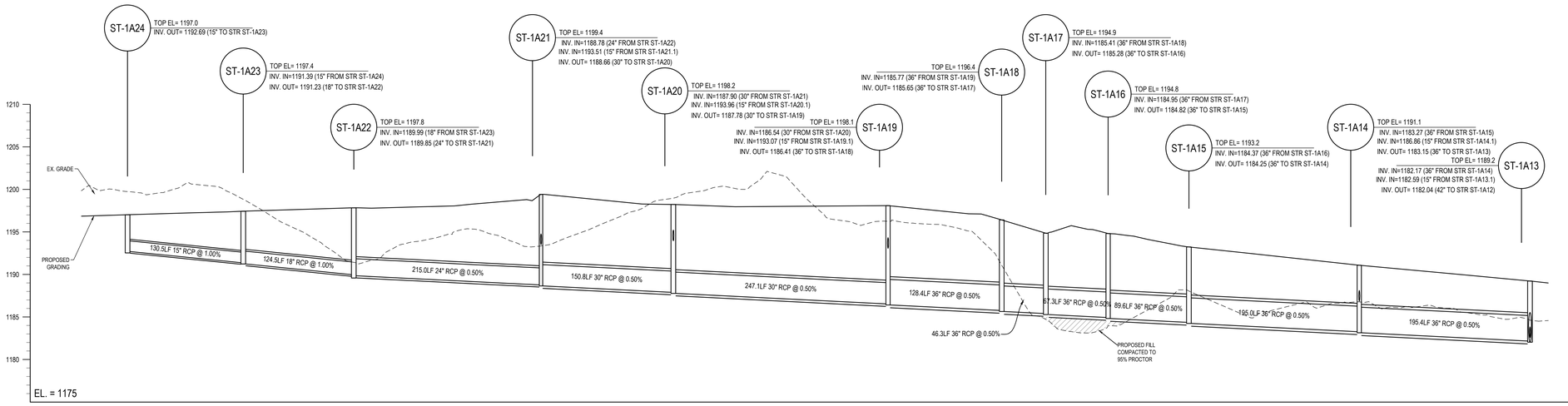
DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

STORMWATER PROFILES

SHEET NUMBER C330





1A
HORZ: 1"=60'
VERT: 1"=6'

SCALE IN FEET
0 10 20 30 50

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITHCELLSVILLE, 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453

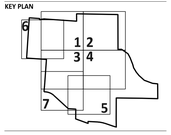
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	90% Review	05/26/26
B	90% Review	06/08/26
C	90% Review	06/23/26
0	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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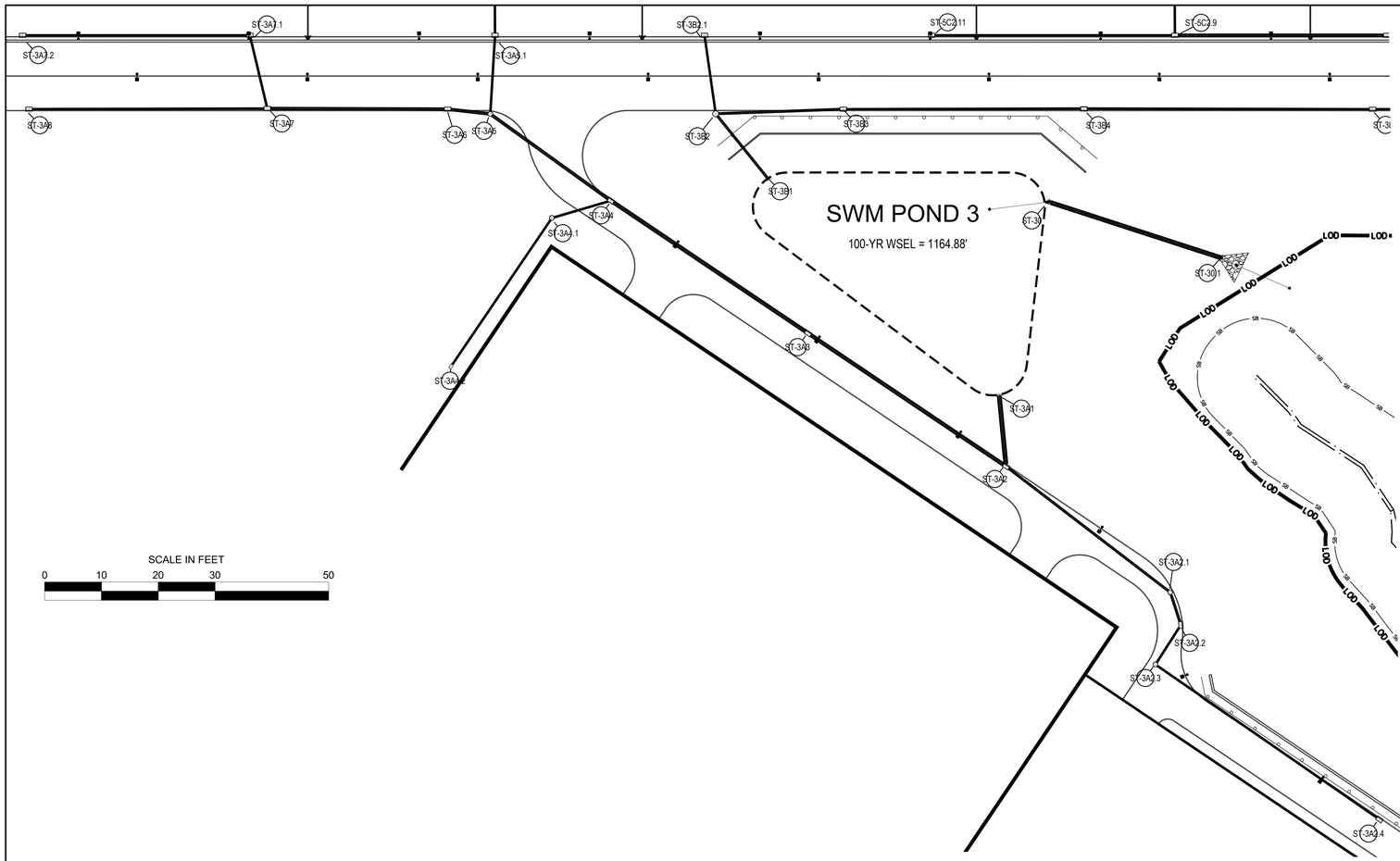
DRAWING INFORMATION

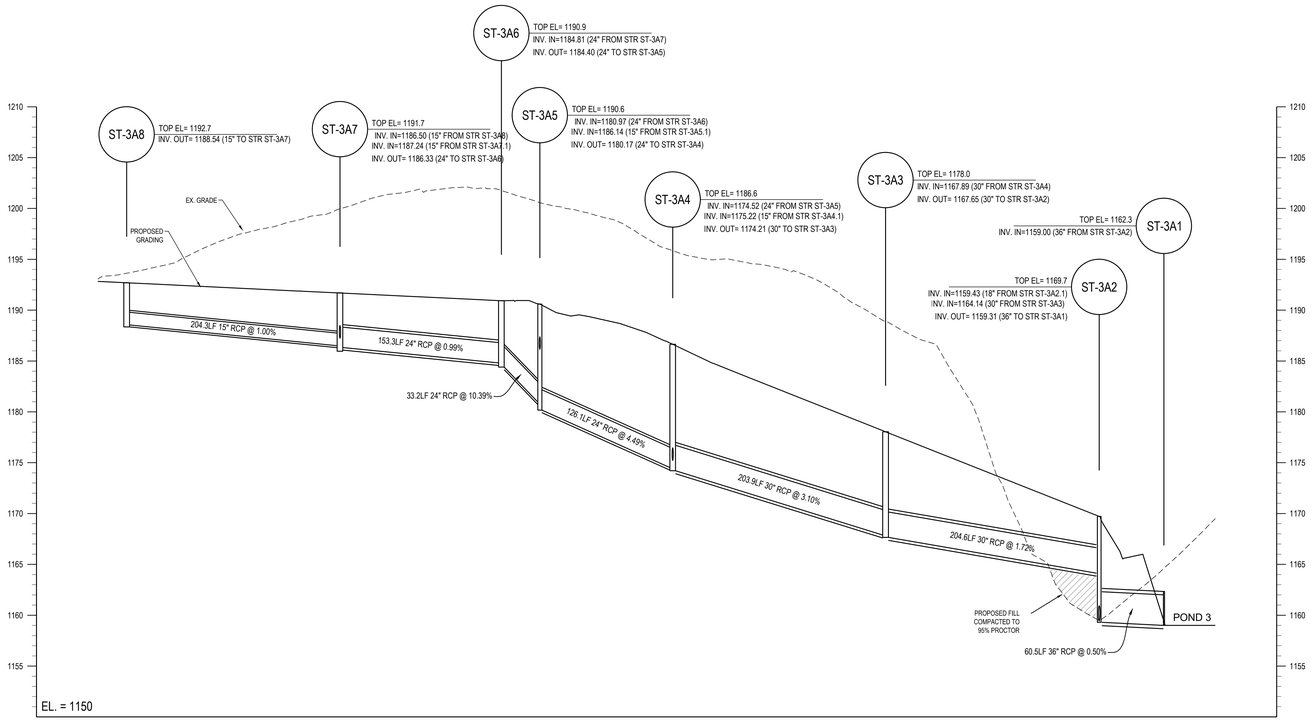
DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

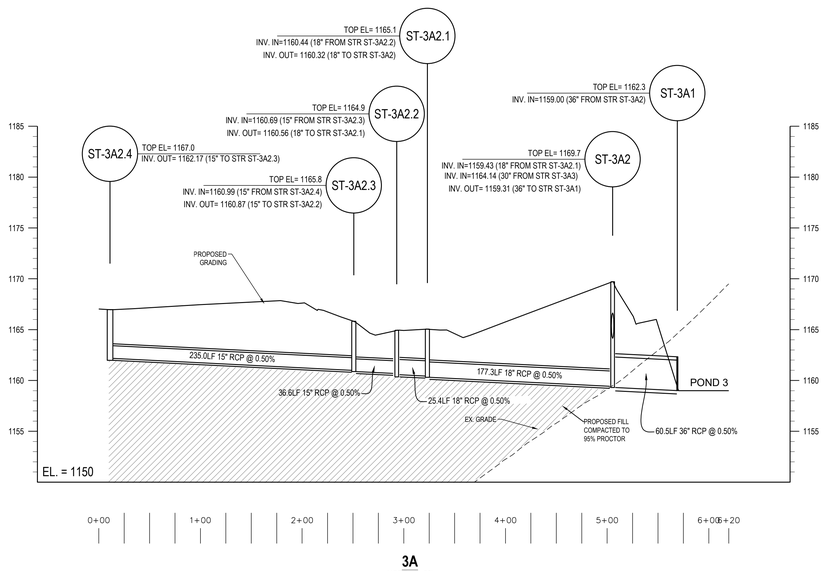
STORMWATER PROFILES

SHEET NUMBER C331





3A
HORZ: 1"=60'
VERT: 1"=6'



3A
HORZ: 1"=60'
VERT: 1"=6'

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME
ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSBURG, KY 40731
501.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076453

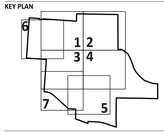
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
B	60% Review	06/08/26
C	90% Review	06/23/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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DRAWING INFORMATION

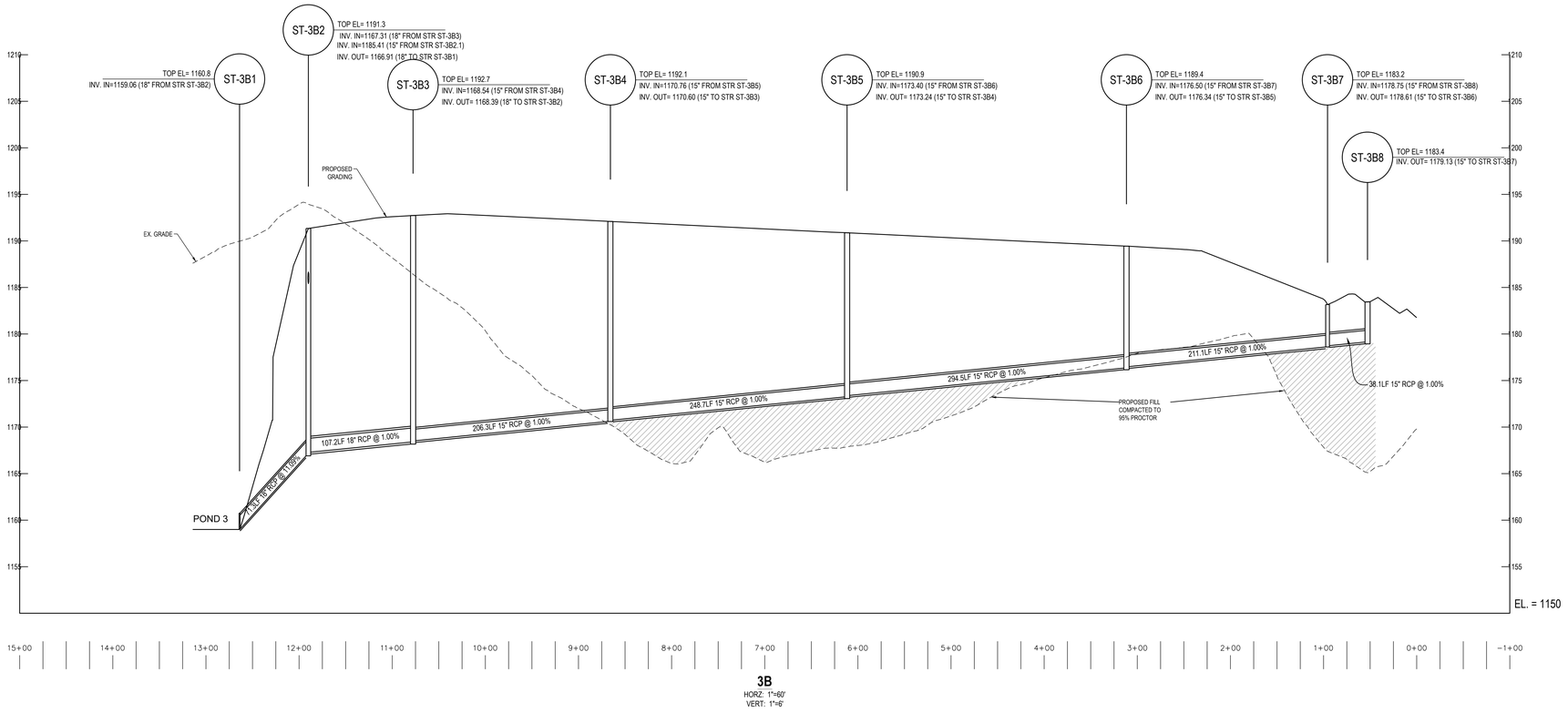
DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

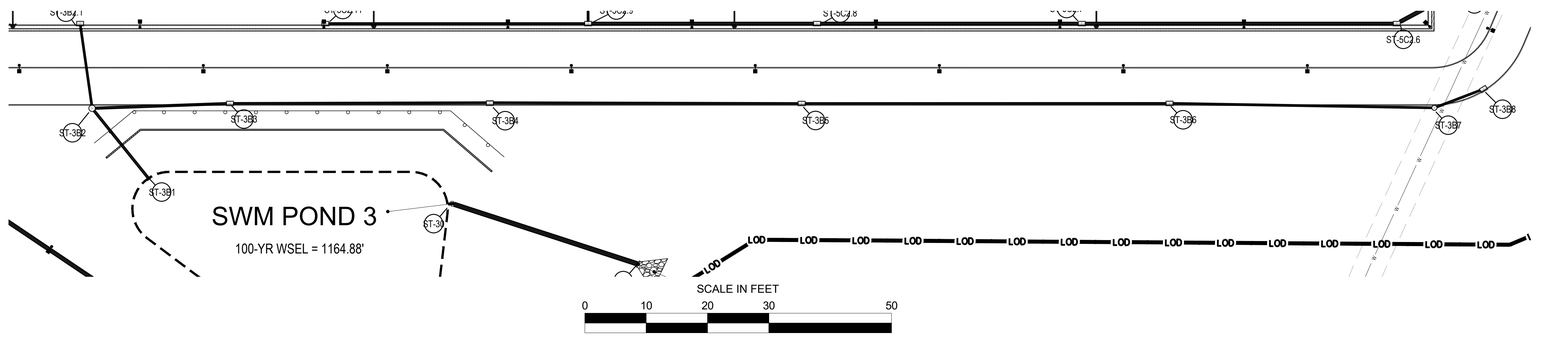
SHEET TITLE

STORMWATER PROFILES

SHEET NUMBER

C332





DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITHCELLVILLE, MD 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453

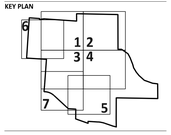
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/29/26
B	60% Review	04/09/26
C	90% Review	05/22/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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DRAWING INFORMATION

DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

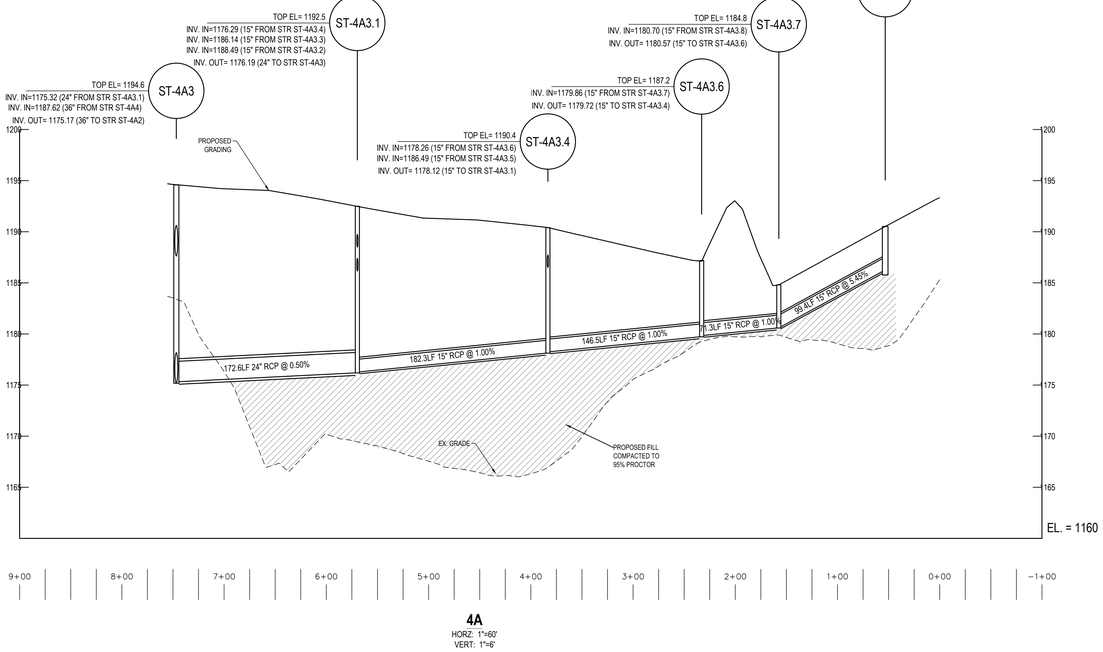
STORMWATER PROFILES

SHEET NUMBER

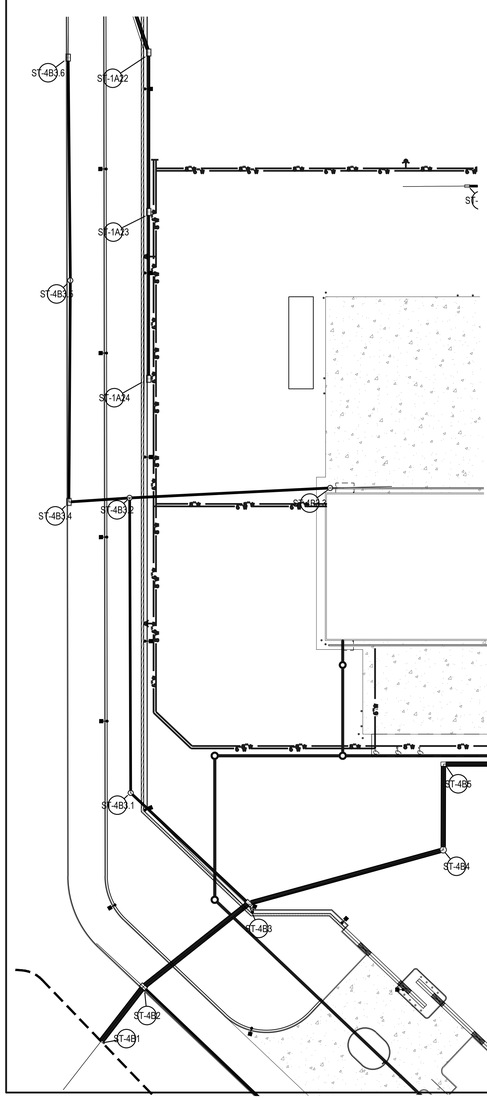
C333

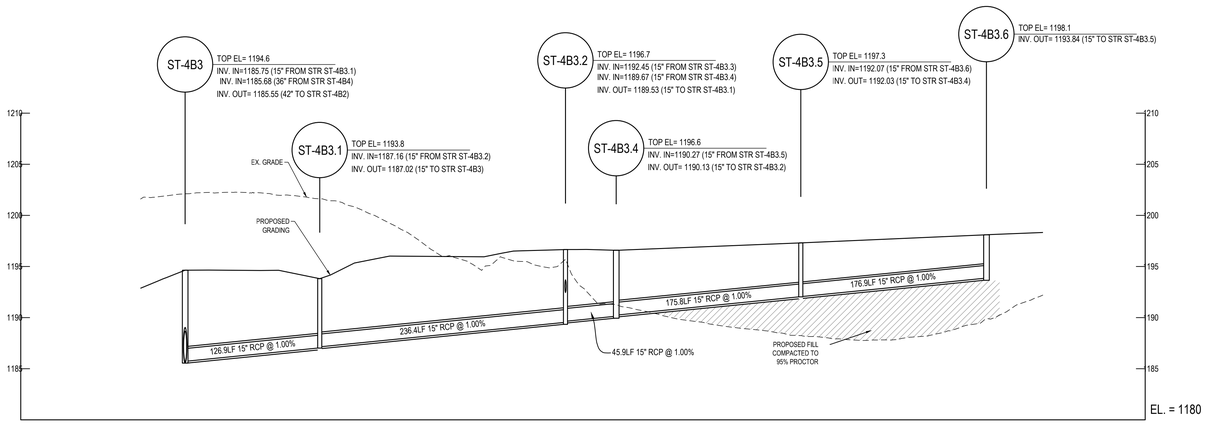
PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

N

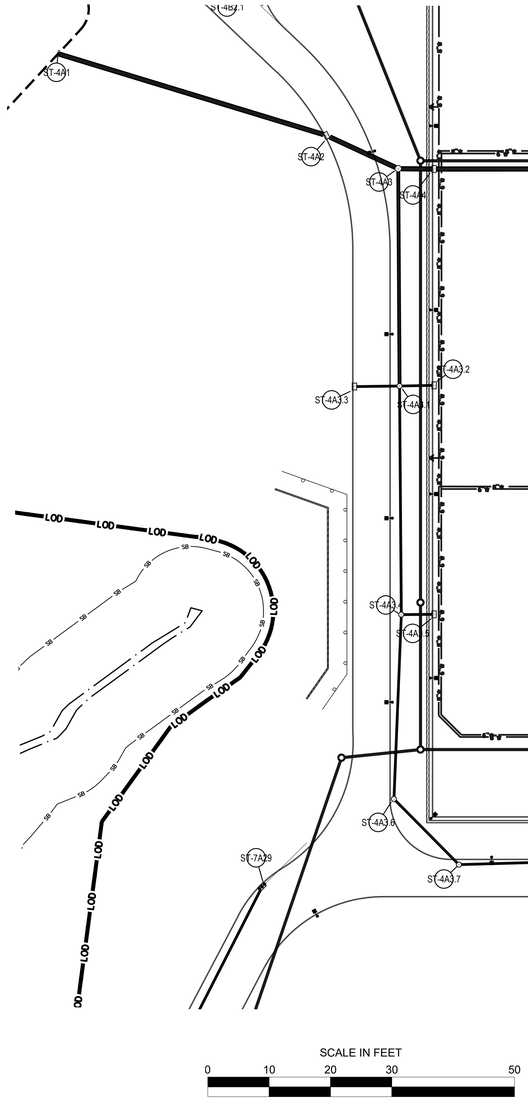


4A
HORZ: 1"=60'
VERT: 1"=6'

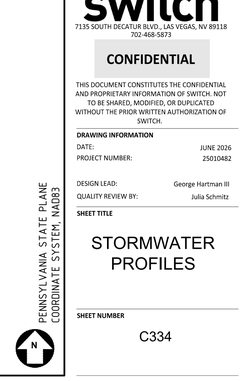




4B
HORZ: 1"=60'
VERT: 1"=6'



PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83



DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSBURG, 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453

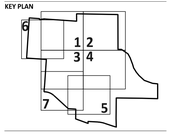
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	90% Review	05/26/26
B	90% Review	05/28/26
C	90% Review	06/23/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

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DRAWING INFORMATION

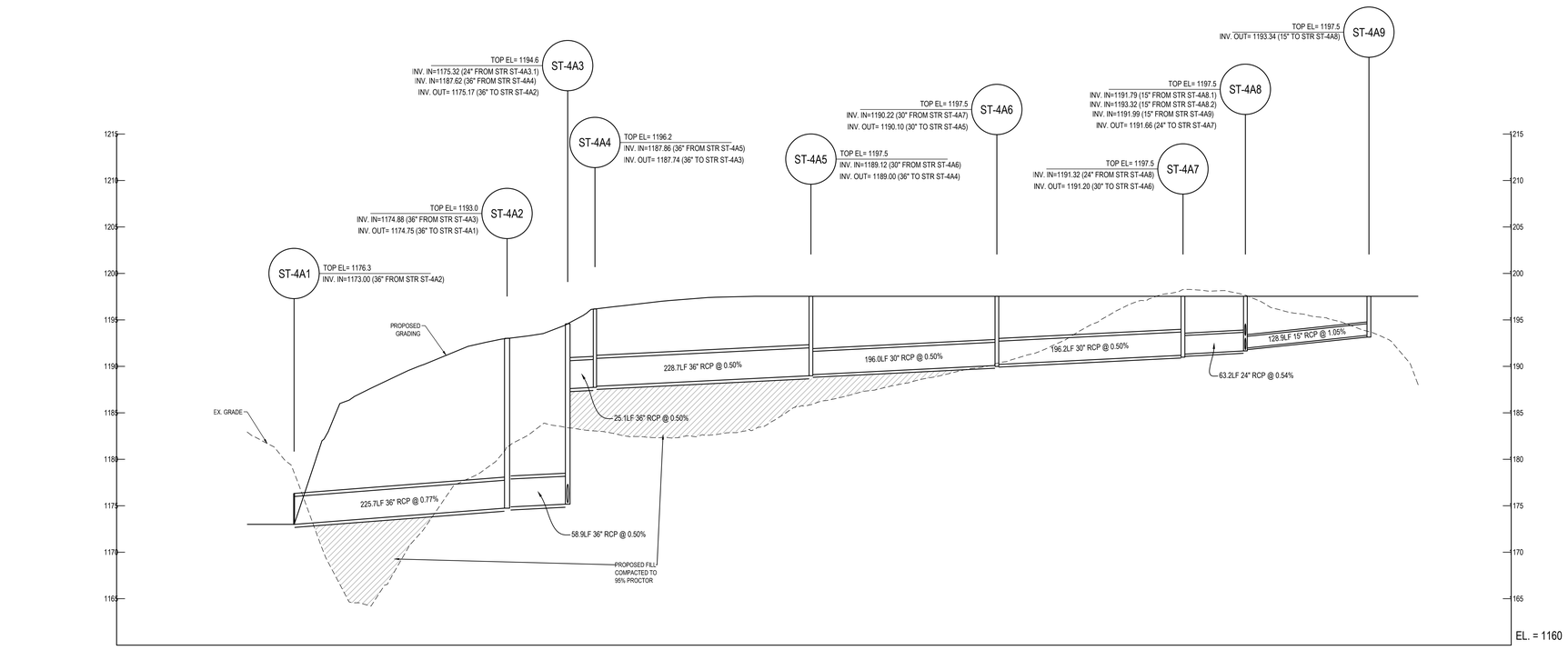
DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

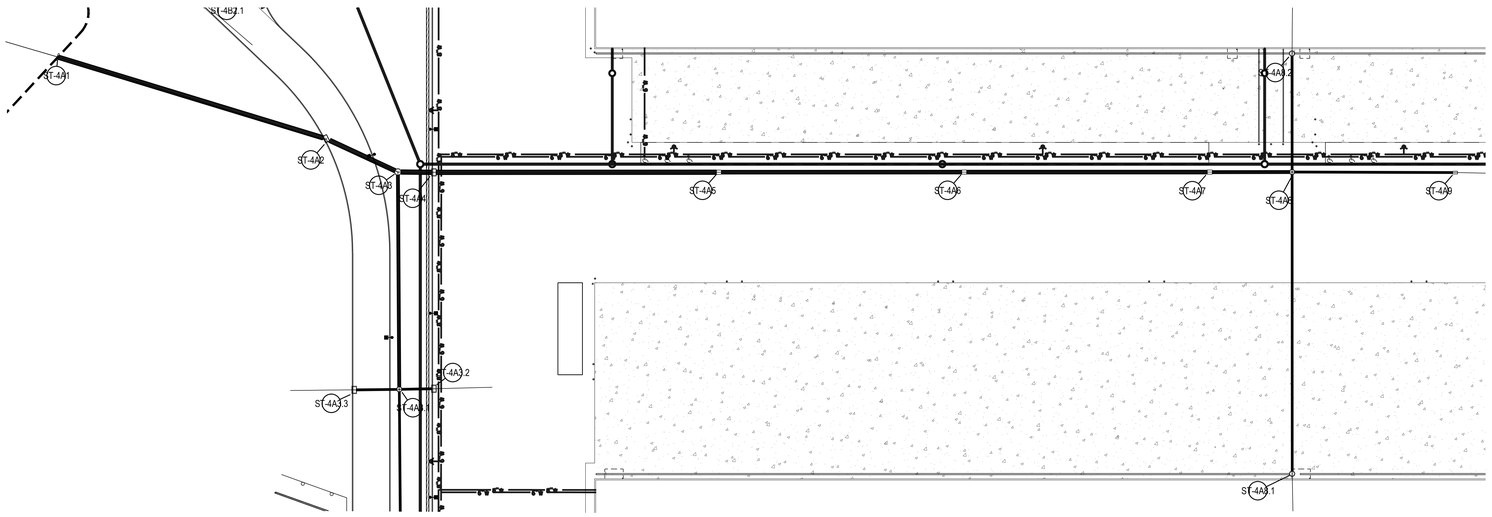
STORMWATER PROFILES

SHEET NUMBER

C334



4A
HORZ: 1"=60'
VERT: 1"=6'



SCALE IN FEET
0 10 20 30 50

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

N

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSBURG, 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453

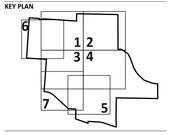
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	90% Review	05/26/26
B	90% Review	05/28/26
C	90% Review	06/23/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

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DRAWING INFORMATION

DATE: JUNE 2026
PROJECT NUMBER: 25010482

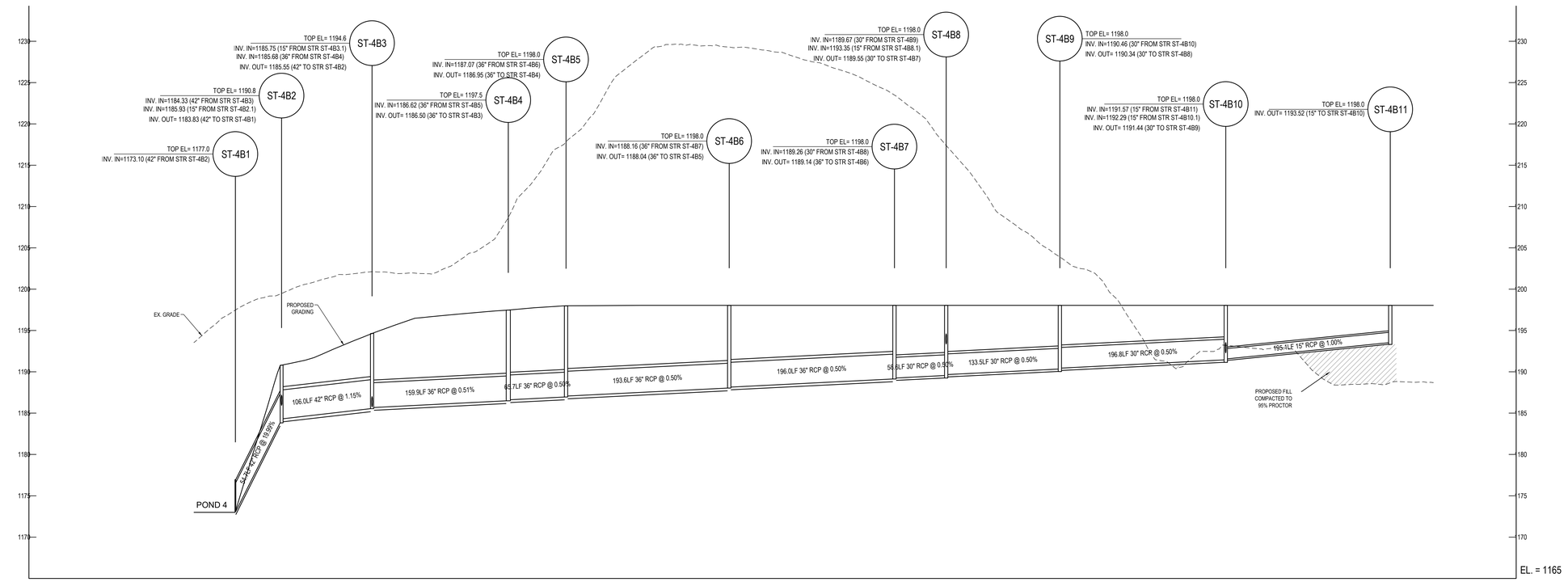
DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

SHEET TITLE

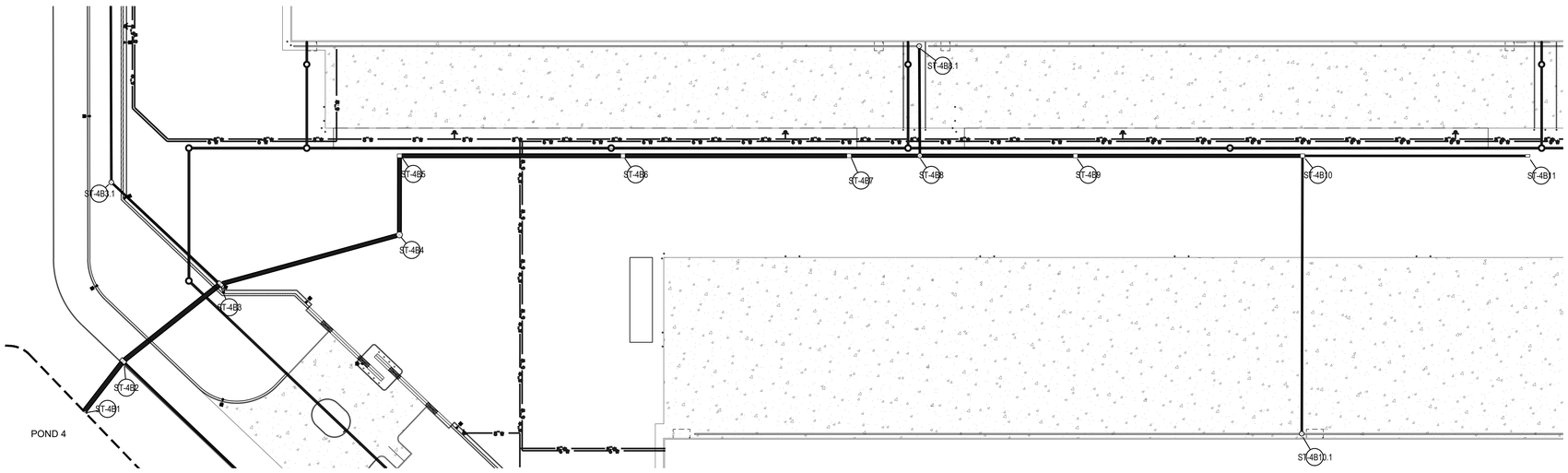
STORMWATER PROFILES

SHEET NUMBER

C335



4B
HORZ: 1"=60'
VERT: 1"=6'



SCALE IN FEET
0 10 20 30 50

PENNSYLVANIA STATE PLANE
COORDINATE SYSTEM, NAD83

N

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITHCELLSBURG, 20721
301.430.2000

STAMP

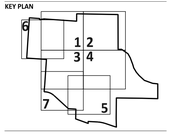
COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/29/26
B	60% Review	06/09/26
C	90% Review	06/23/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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DRAWING INFORMATION

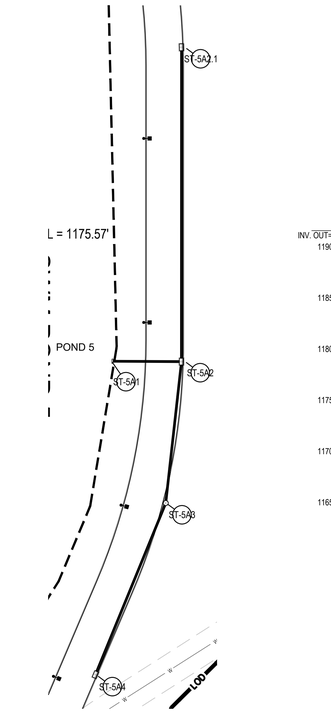
DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

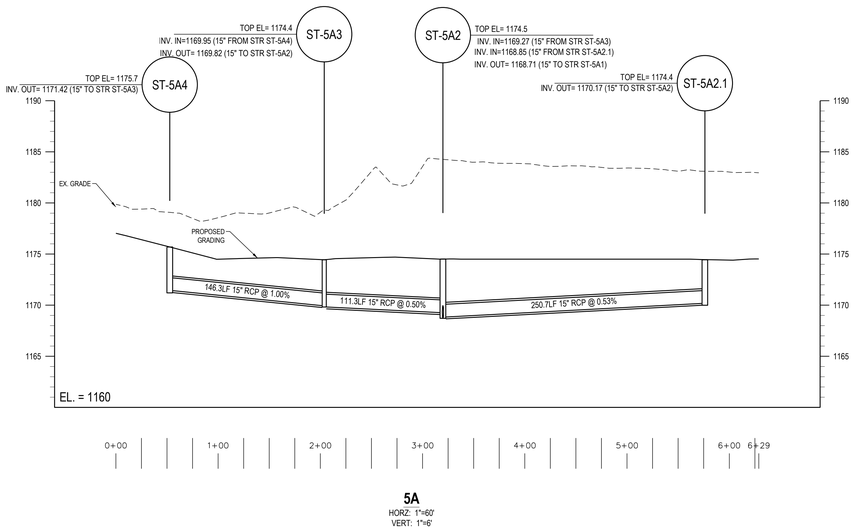
STORMWATER PROFILES

SHEET NUMBER

C336



SCALE IN FEET
0 10 20 30 50



5A
HORZ: 1"=60'
VERT: 1"=6'

PENNSYLVANIA STATE PLANE
COORDINATE SYSTEM, NAD83

N

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSVILLE, 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453

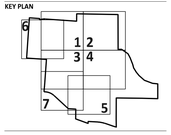
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/29/26
B	60% Review	06/08/26
C	90% Review	06/23/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

THIS DOCUMENT CONSTITUTES THE CONFIDENTIAL AND PROPRIETARY INFORMATION OF SWITCH. NOT TO BE SHARED, MODIFIED, OR DUPLICATED WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF SWITCH.

DRAWING INFORMATION

DATE: JUNE 2026
PROJECT NUMBER: 25010482

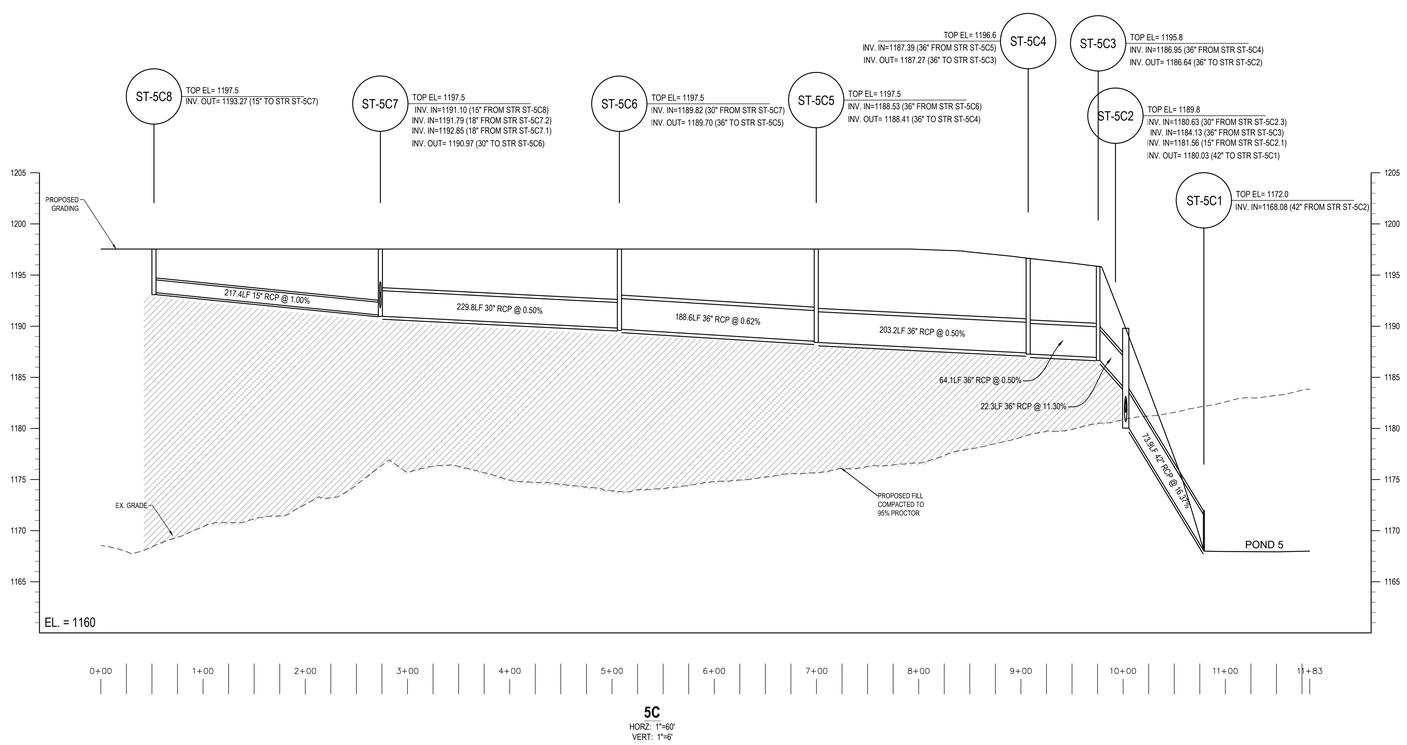
DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

SHEET TITLE

STORMWATER PROFILES

SHEET NUMBER

C337



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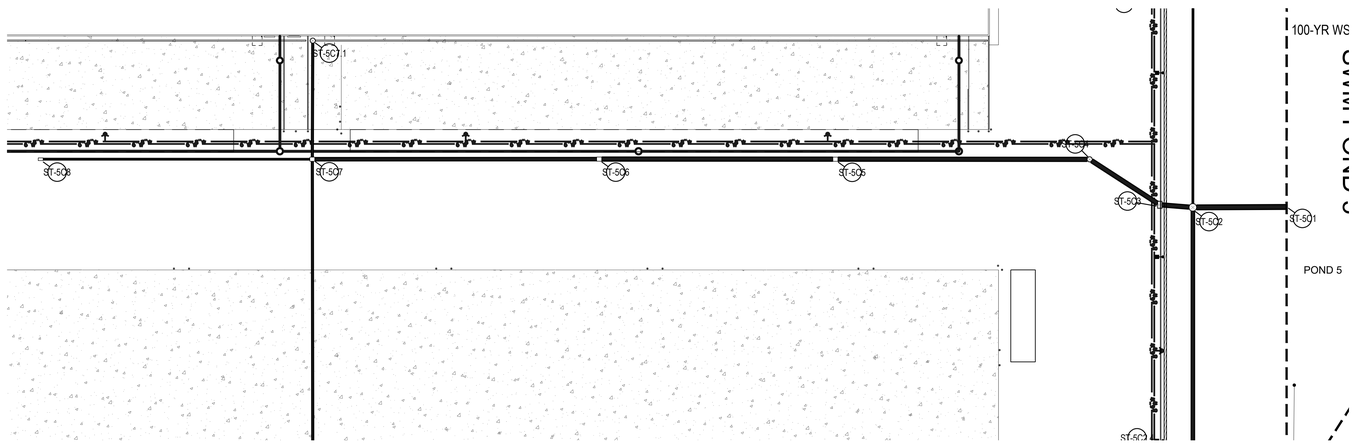
HORZ: 1"=60'
VERT: 1"=6'



SCALE IN FEET
0 10 20 30 50

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

N

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSBURG, 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453

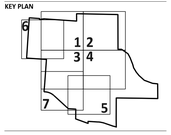
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/29/26
B	60% Review	06/08/26
C	90% Review	06/23/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

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DRAWING INFORMATION

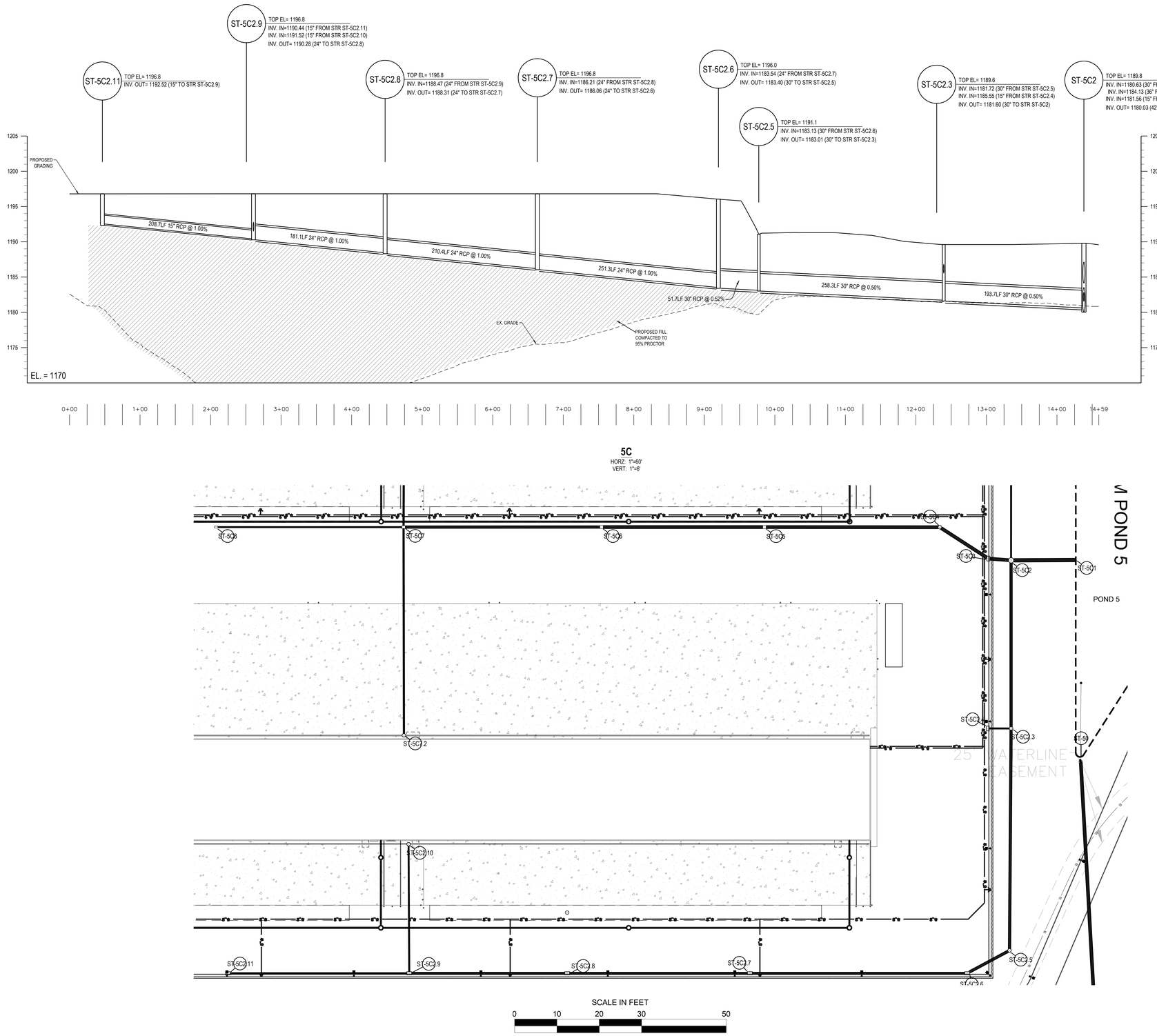
DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

STORMWATER PROFILES

SHEET NUMBER

C338



DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSBURG, 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453

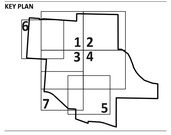
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
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OWNER

switch
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702-468-5873

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DRAWING INFORMATION

DATE: JUNE 2026
PROJECT NUMBER: 25010482

DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

SHEET TITLE

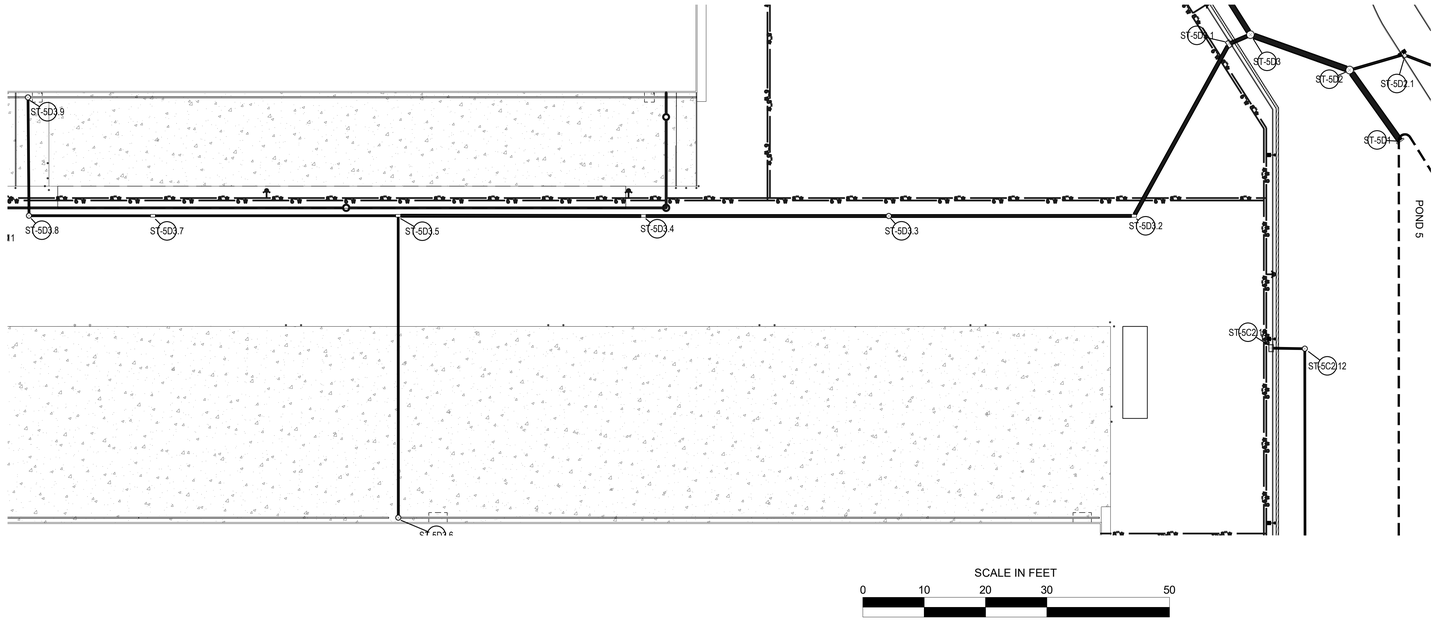
STORMWATER PROFILES

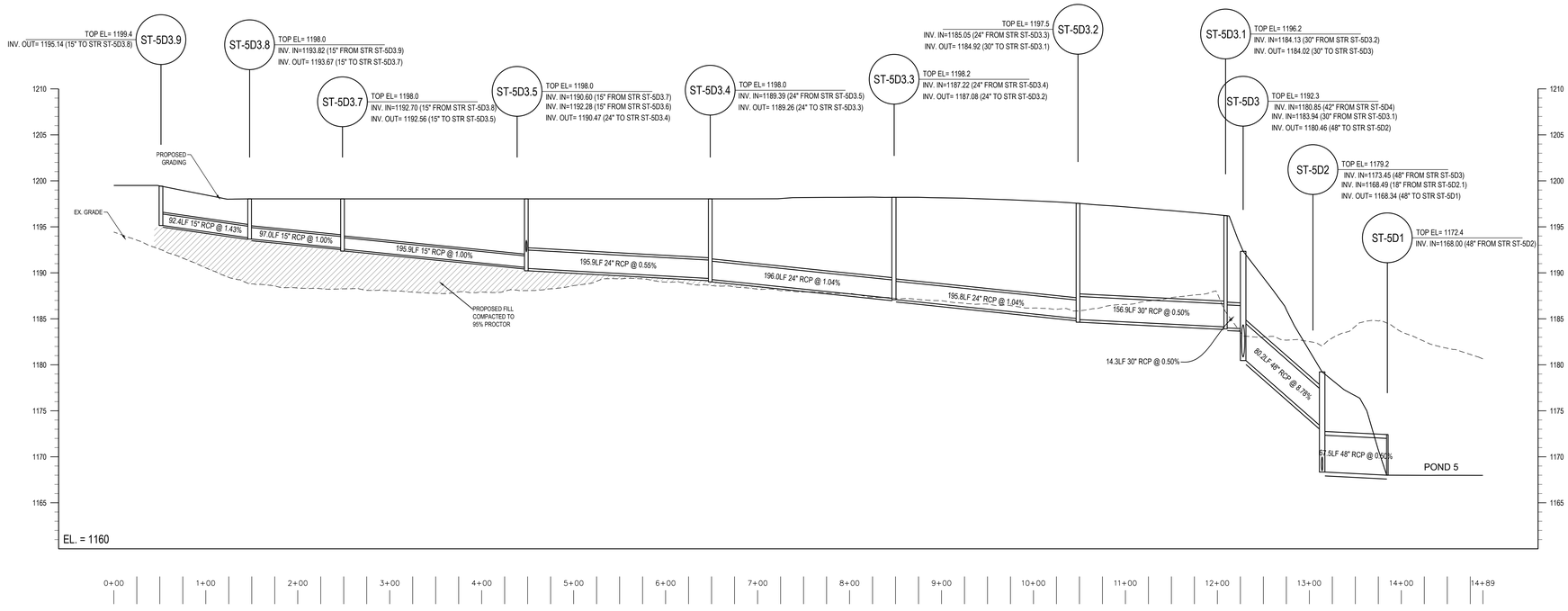
SHEET NUMBER

C339

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

N





5D
HORZ: 1"=60'
VERT: 1"=6'

PENNSYLVANIA STATE PLANE
COORDINATE SYSTEM, NAD83

N

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSBURG, 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453

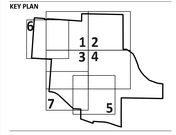
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
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OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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DRAWING INFORMATION

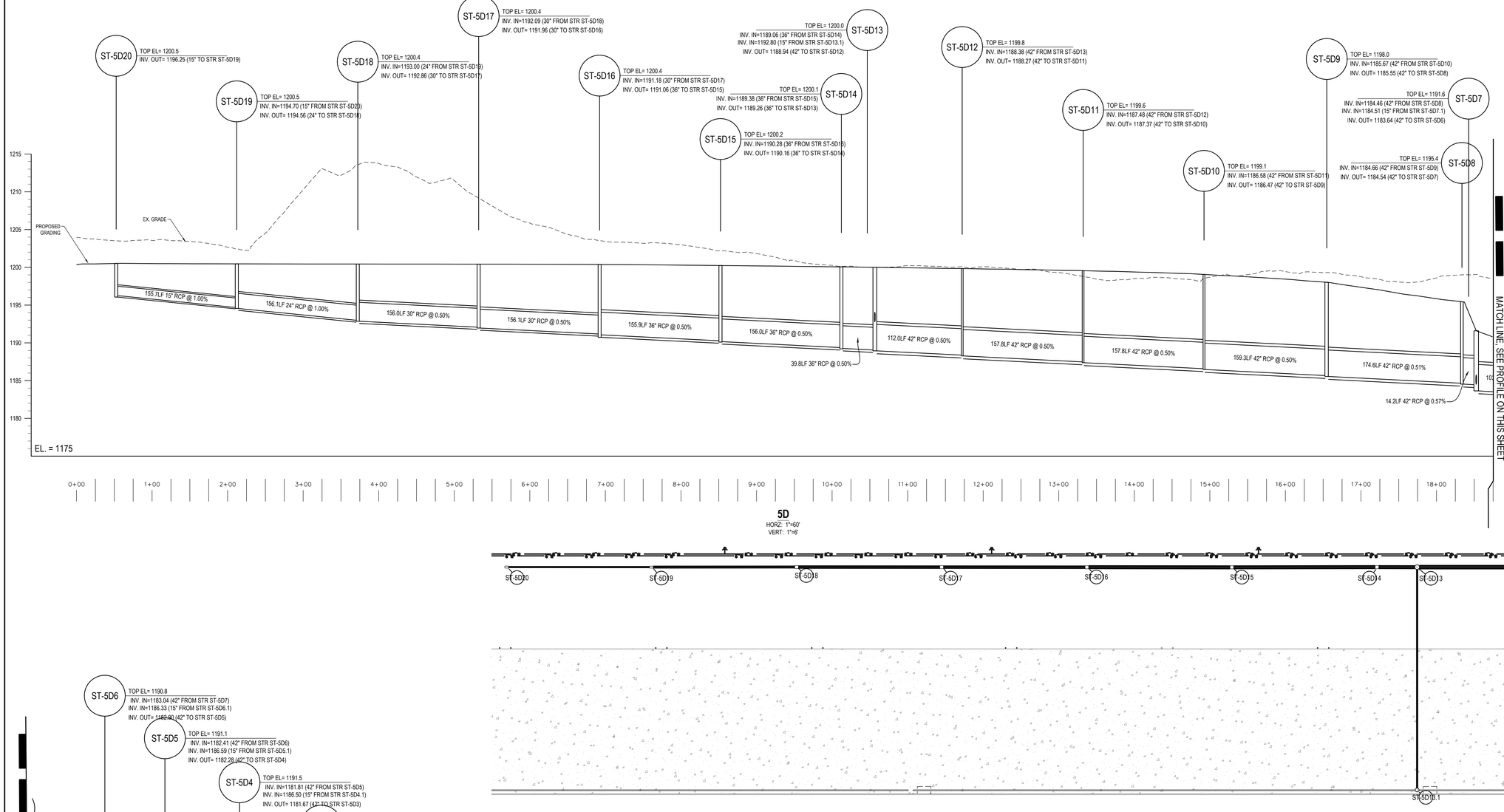
DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

STORMWATER PROFILES

SHEET NUMBER

C340



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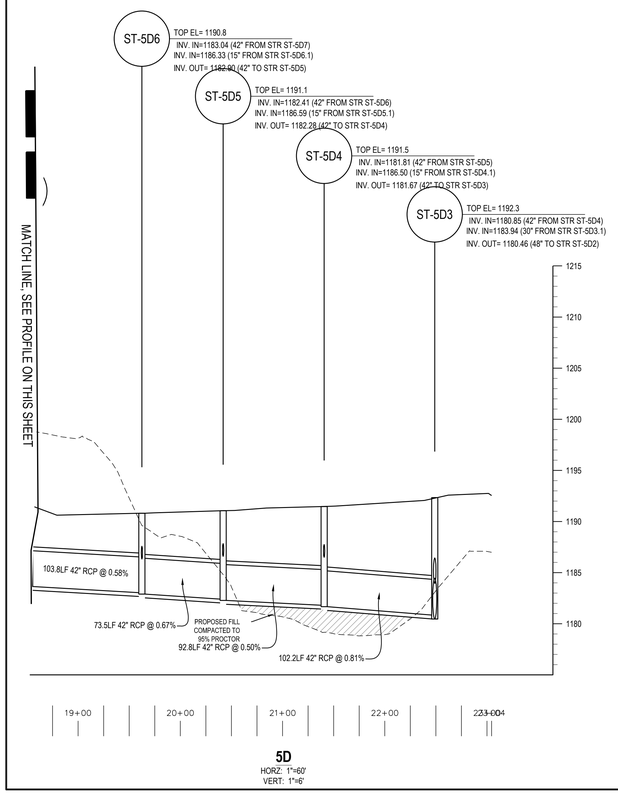

5D
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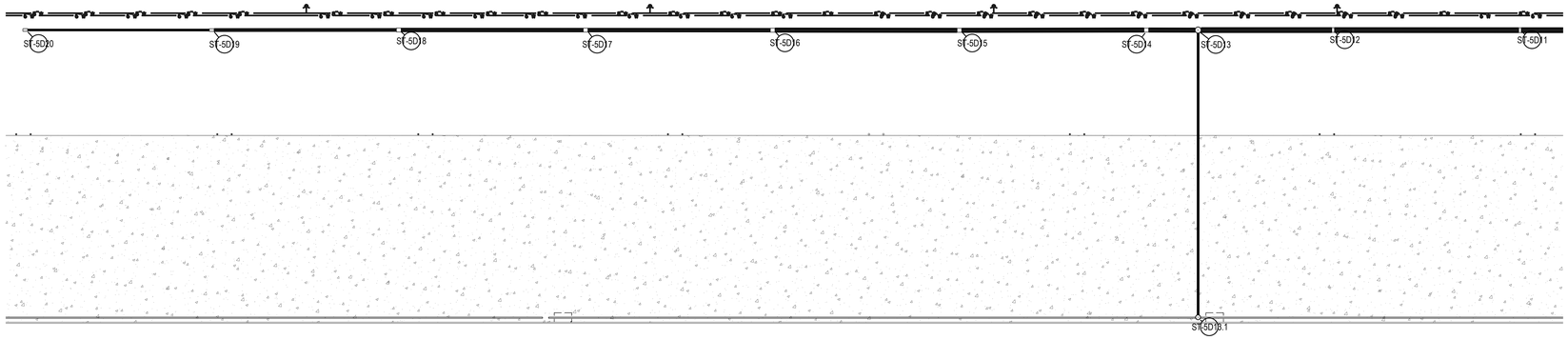
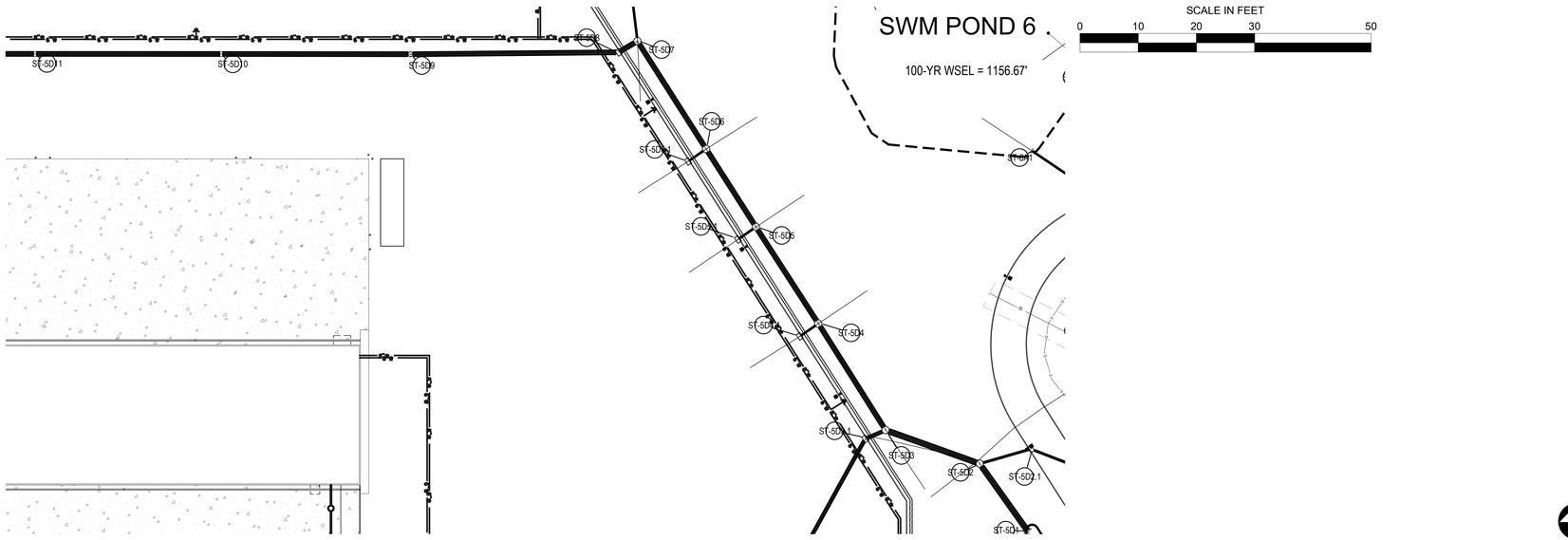
VERT: 1"=6'





DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSBURG, 20721
301.430.2000

STAMP

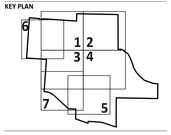
COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	90% Review	05/26/26
B	90% Review	05/28/26
C	90% Review	06/23/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

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DRAWING INFORMATION

DATE: JUNE 2026
PROJECT NUMBER: 25010482

DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

SHEET TITLE

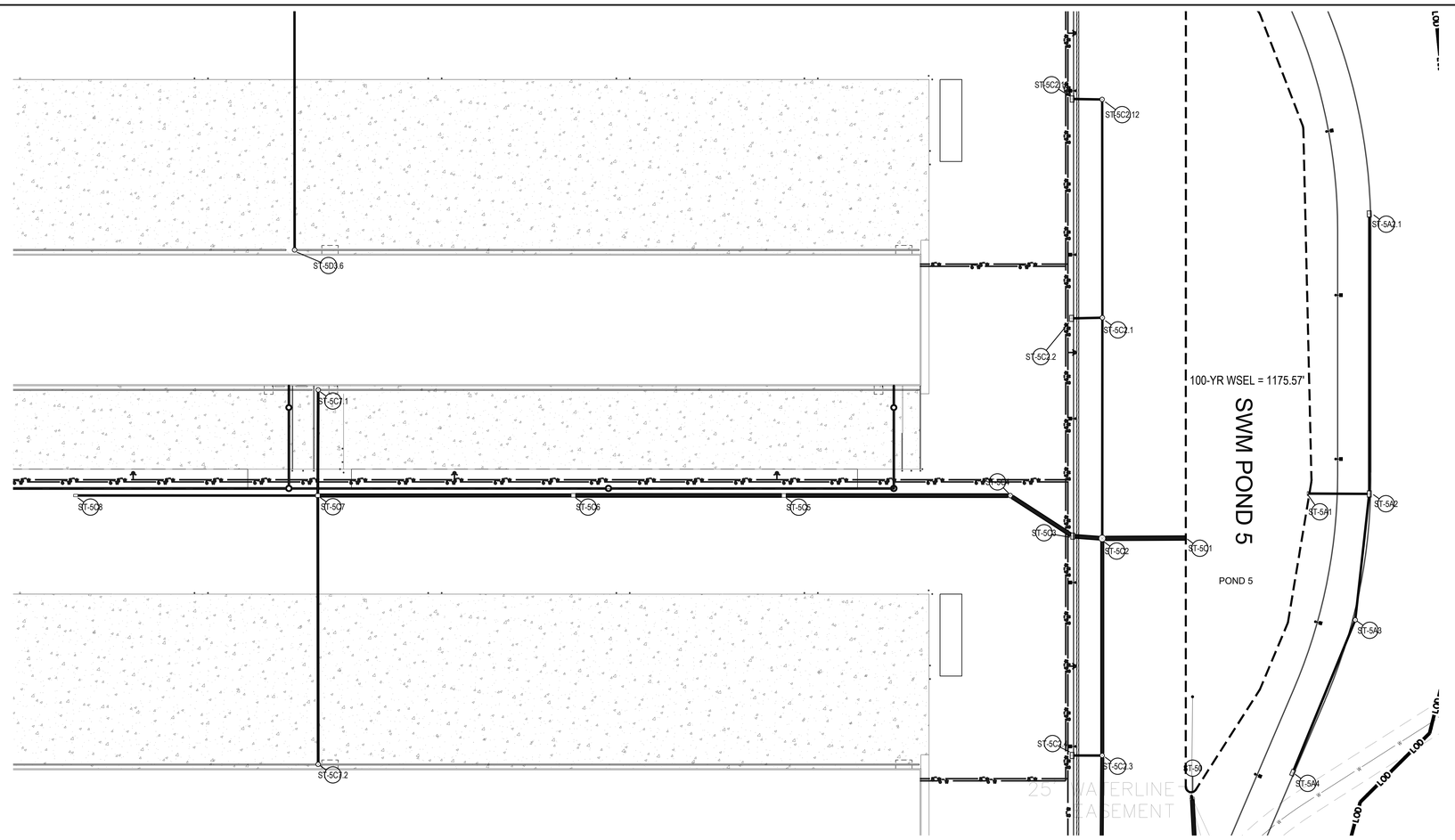
STORMWATER PROFILES

SHEET NUMBER

C341

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

N



SCALE IN FEET

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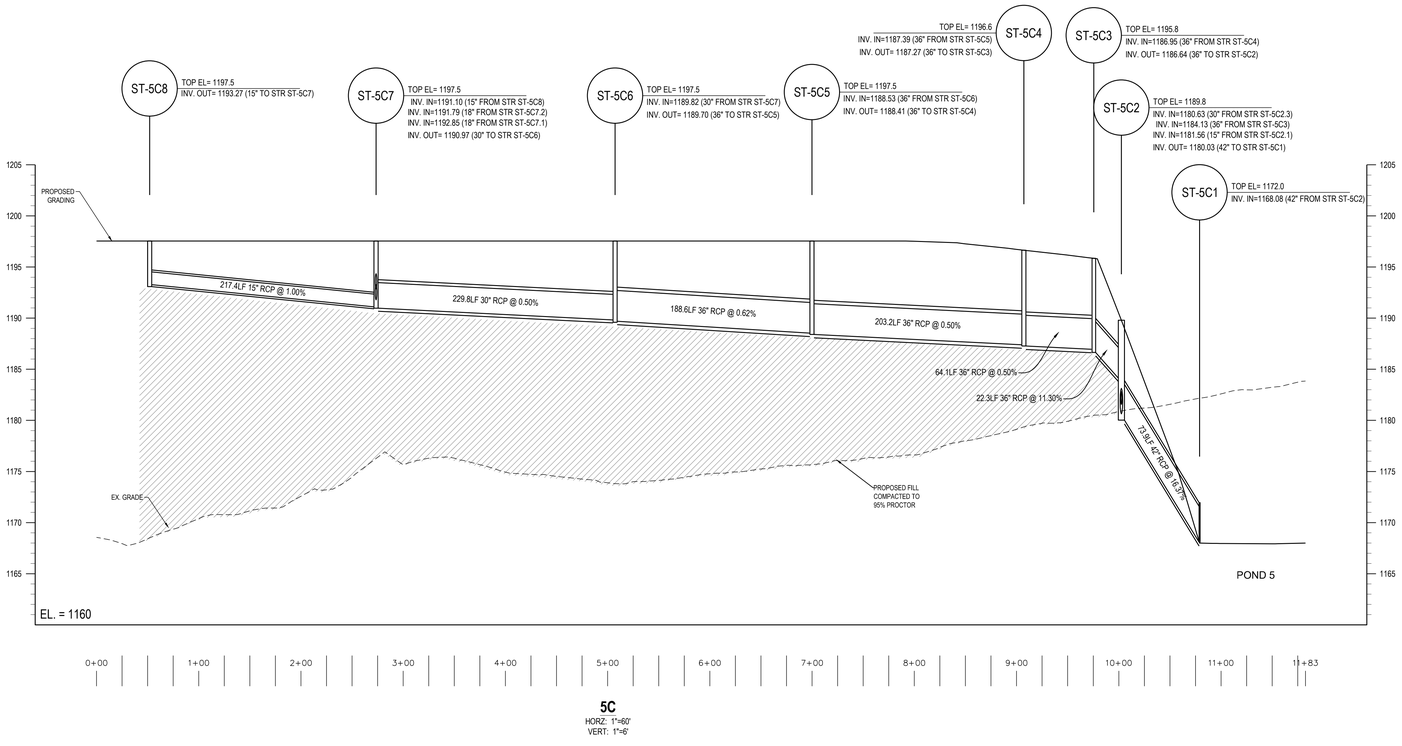

5C
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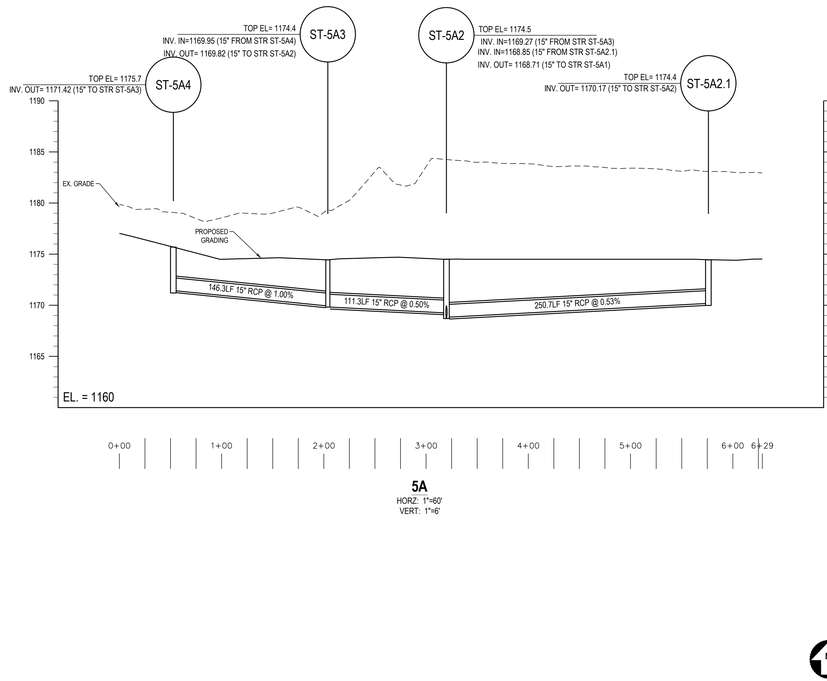


5A
HORZ: 1"=60'
VERT: 1"=6'

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

N

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSBURG, KY, 40731
501.420.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453

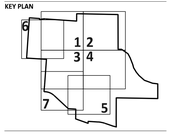
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
B	60% Review	06/05/26
C	90% Review	06/22/26
0	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

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DRAWING INFORMATION

DATE: JUNE 2026
PROJECT NUMBER: 25010482

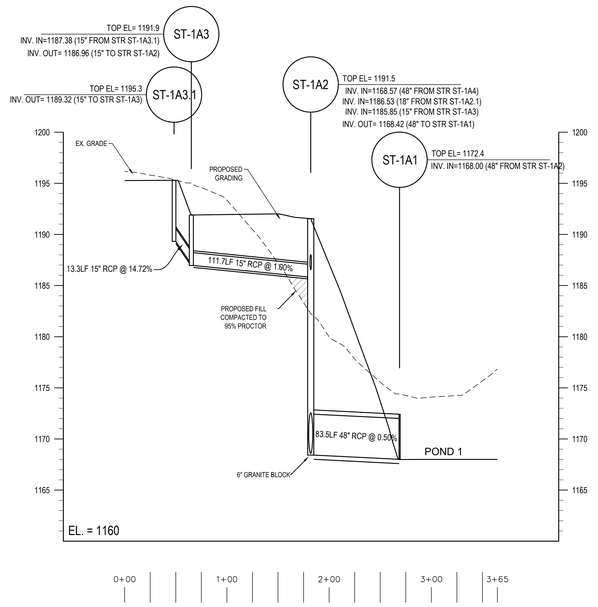
DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

SHEET TITLE

STORMWATER PROFILES

SHEET NUMBER

C342



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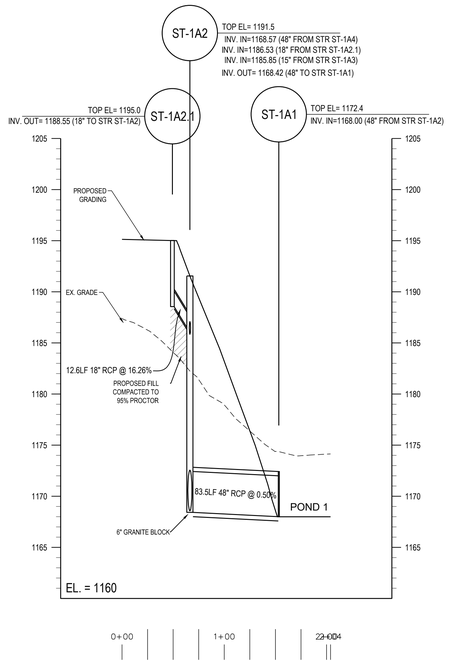
VERT: 1"=6'



1A
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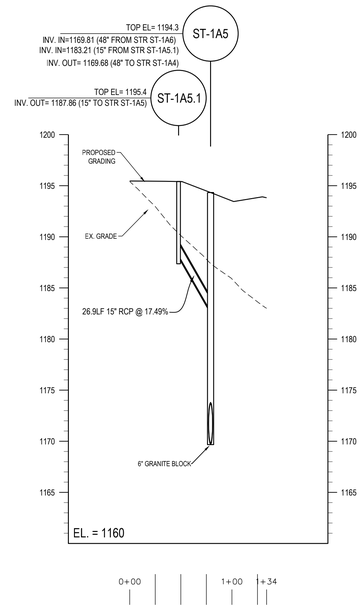
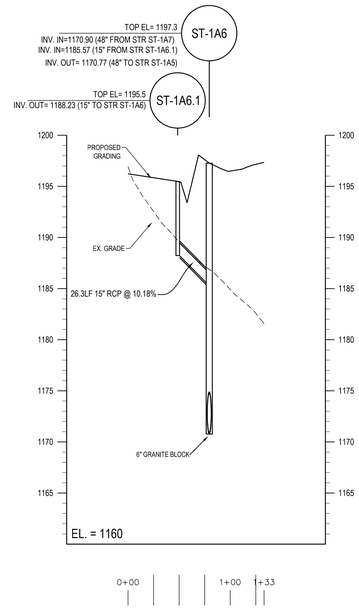
VERT: 1"=6'



1A
HORZ: 1"=60'
VERT: 1"=6'



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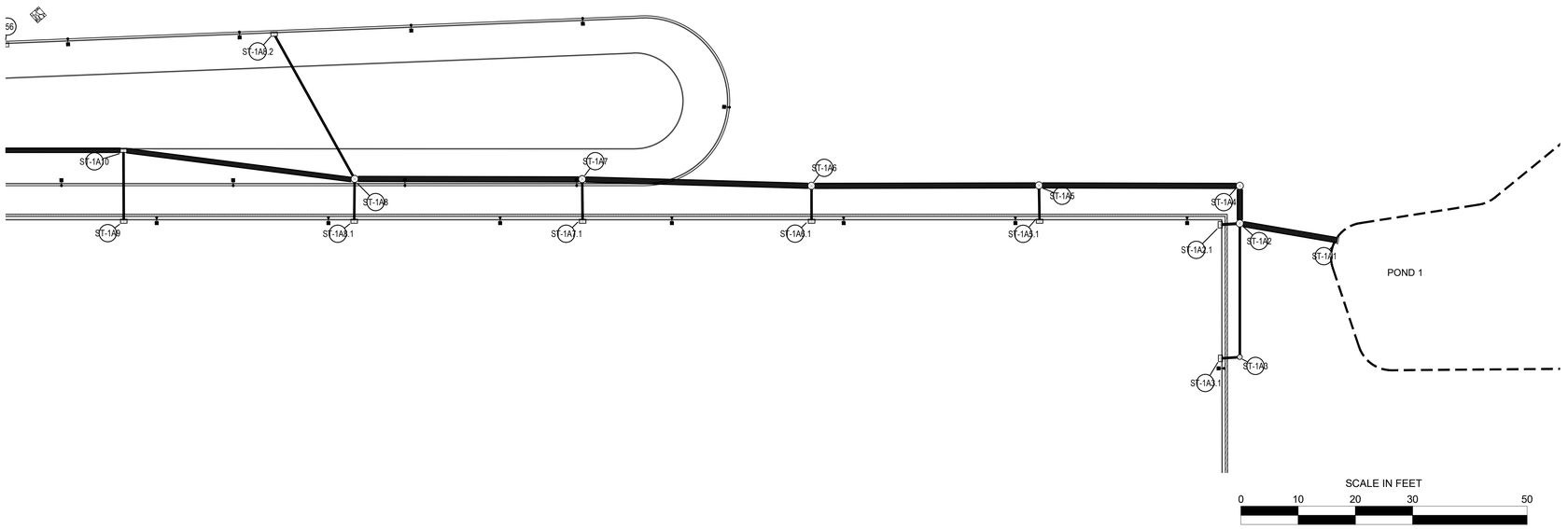


PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

N

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITHCELLVILLE, MD 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076453

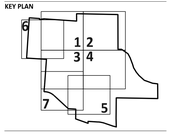
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	90% Review	05/26/26
B	90% Review	05/28/26
C	90% Review	06/23/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

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DRAWING INFORMATION

DATE: JUNE 2026
PROJECT NUMBER: 25010482

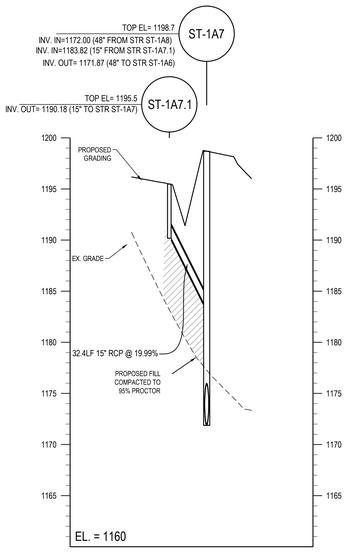
DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

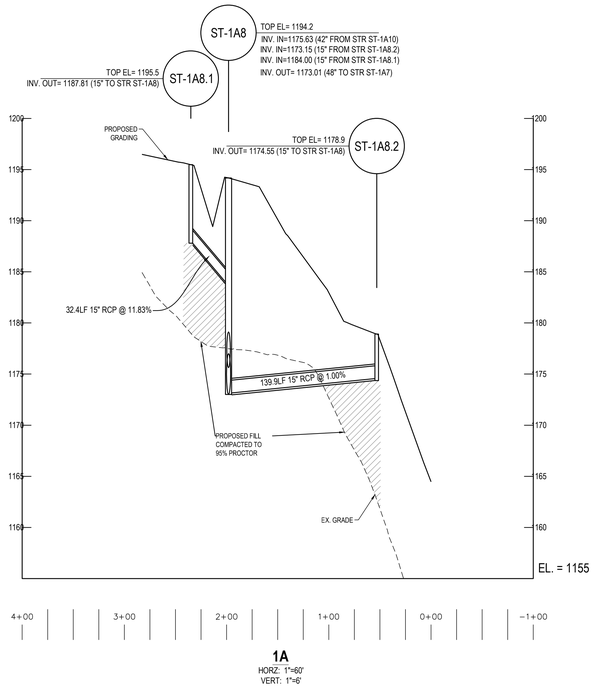
SHEET TITLE

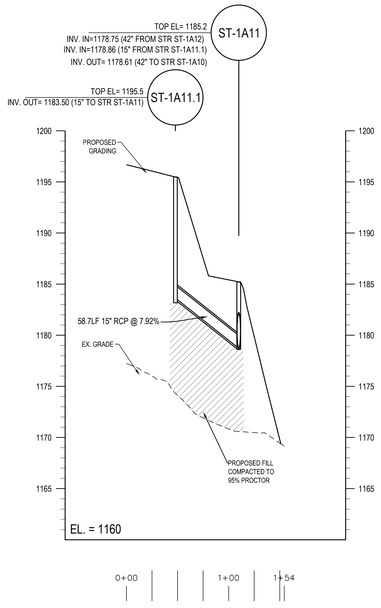
STORMWATER PROFILES

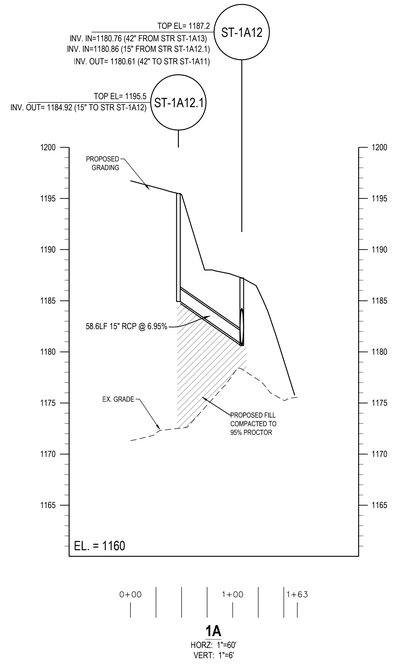
SHEET NUMBER

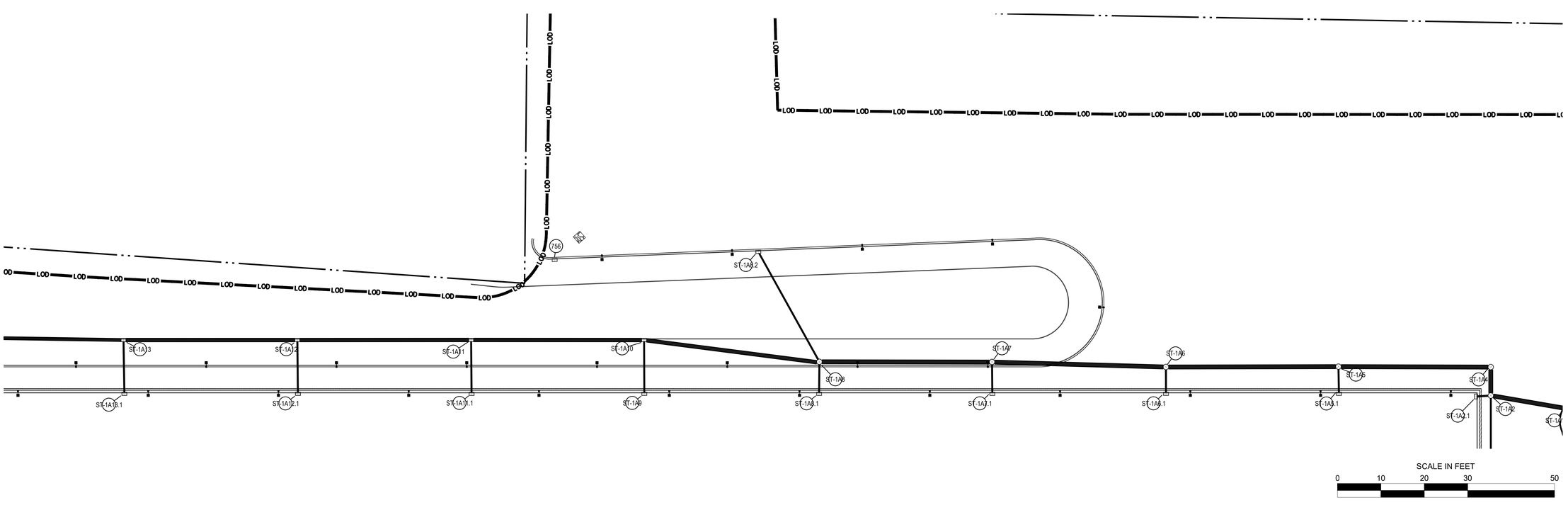
C343











PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

N

DESIGN TEAM PRIME
ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSBURG, 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076453

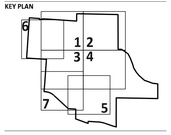
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03 EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



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OWNER

switch
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DRAWING INFORMATION

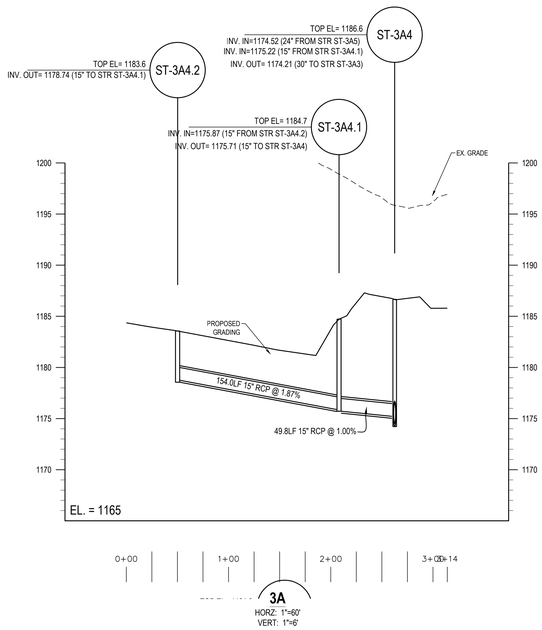
DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

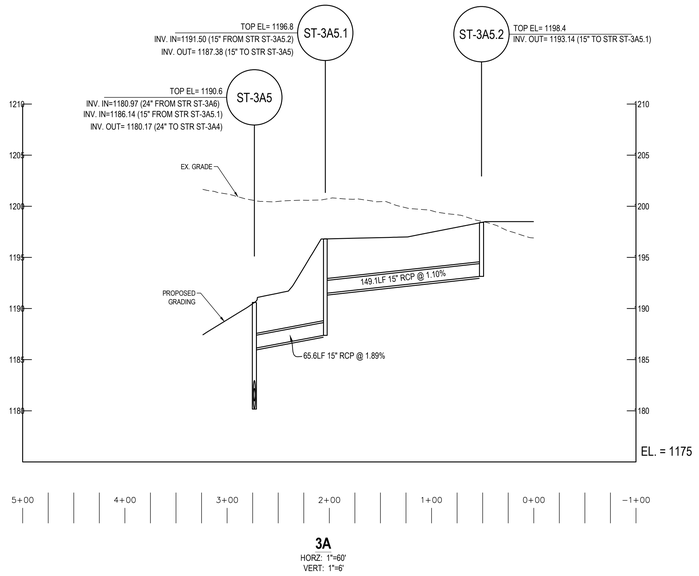
SHEET TITLE

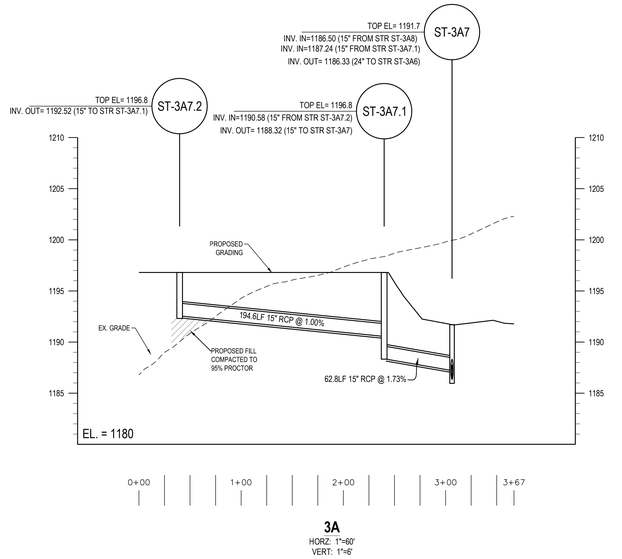
STORMWATER PROFILES

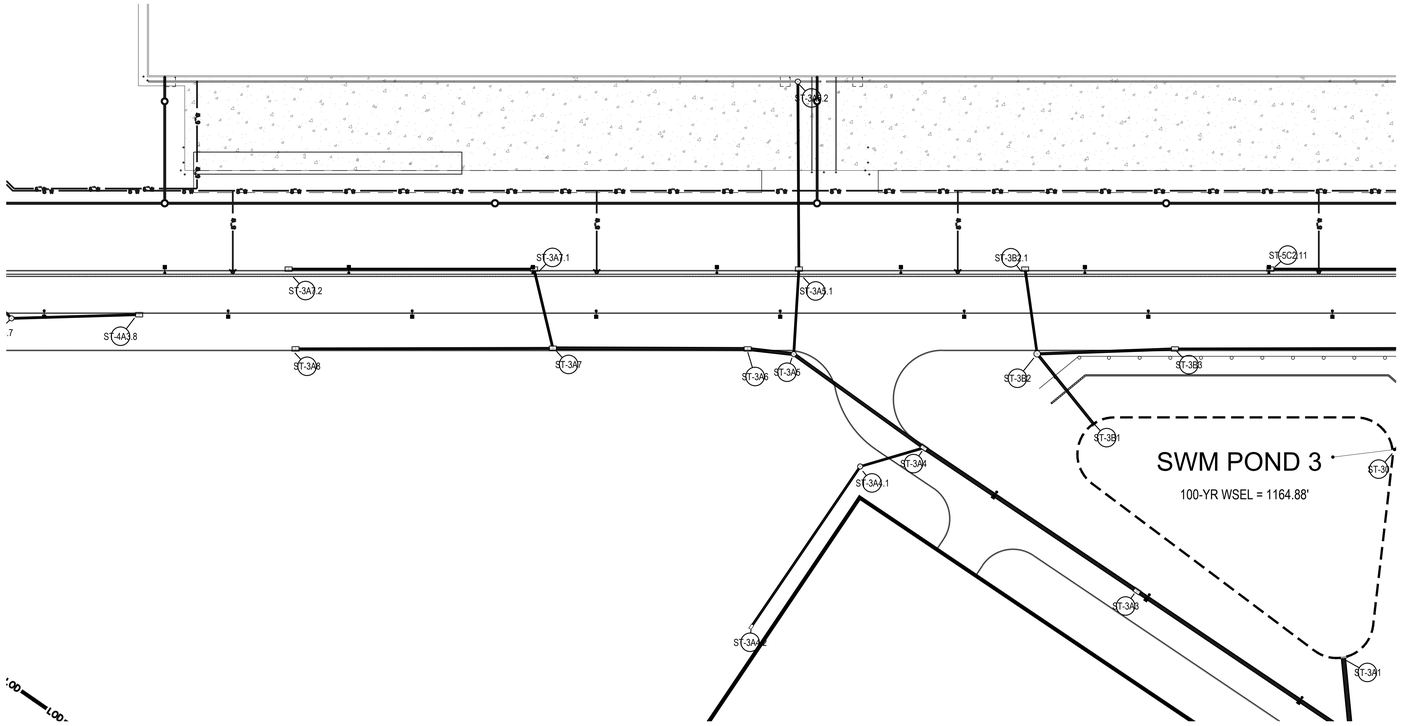
SHEET NUMBER

C344









DESIGN TEAM PRIME
ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITHCELLSVILLE, 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076453

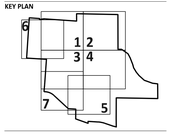
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
B	60% Review	06/08/26
C	90% Review	06/22/26
0	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

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DRAWING INFORMATION

DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

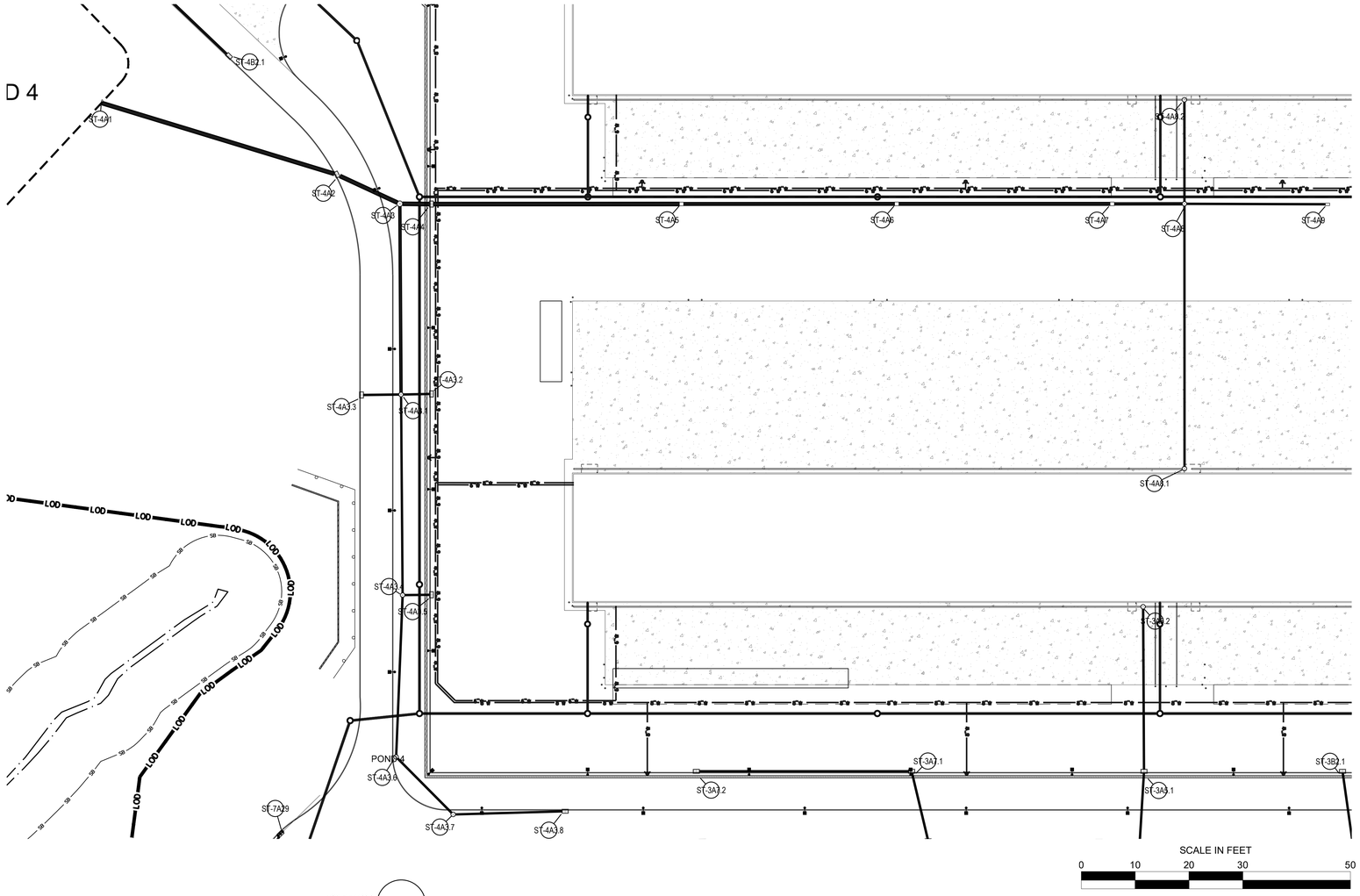
STORMWATER PROFILES

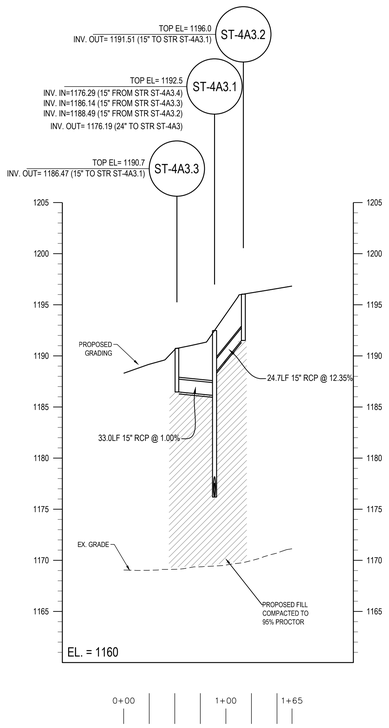
SHEET NUMBER

C345

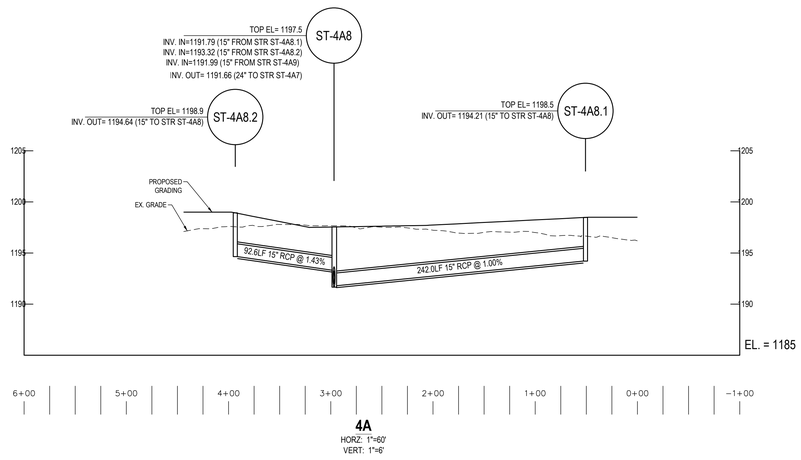
PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

N





4A
HORZ: 1"=60'
VERT: 1"=6'



4A
HORZ: 1"=60'
VERT: 1"=6'

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSBURG, 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453

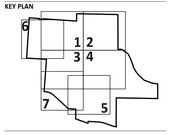
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
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C	90% Review	06/29/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702.468.5873

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PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

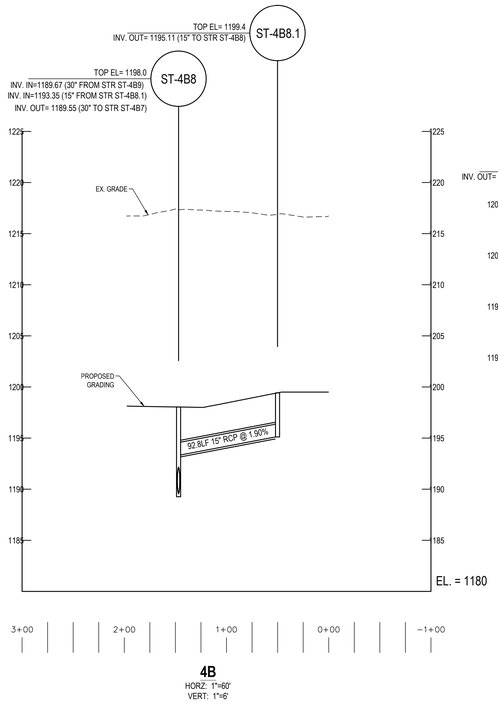
STORMWATER PROFILES

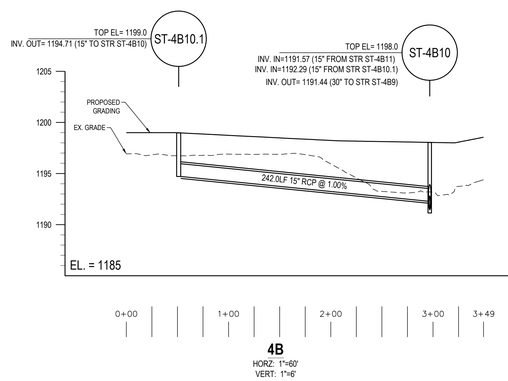
SHEET NUMBER

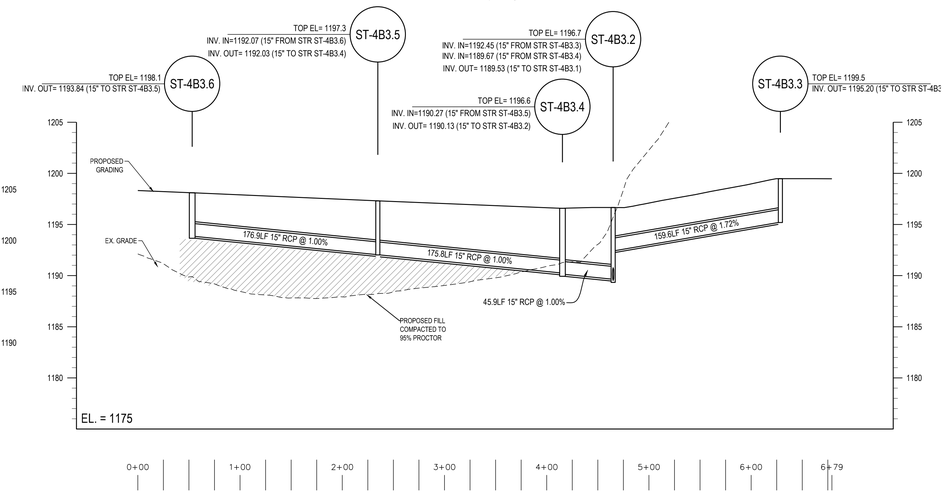
C346

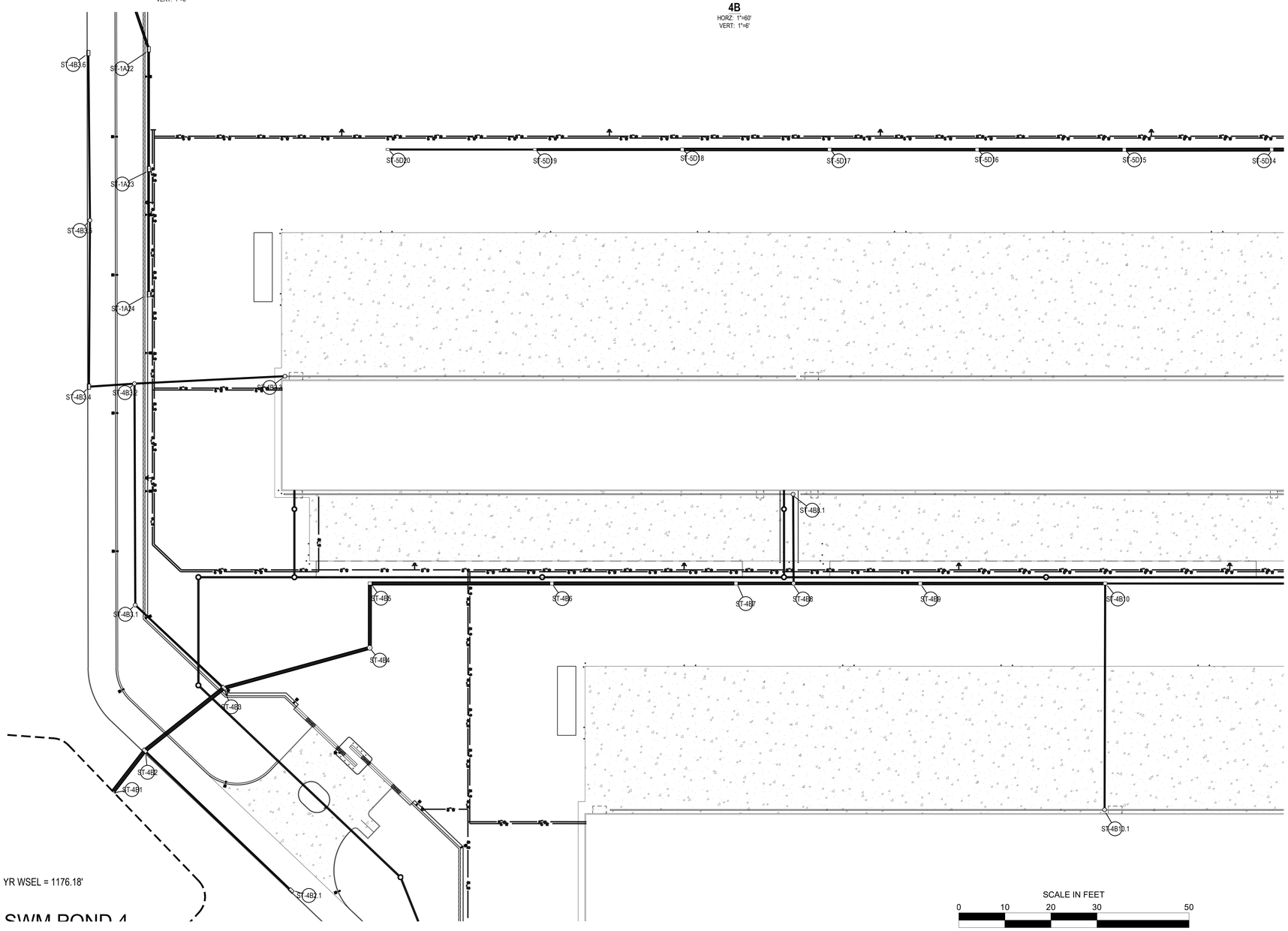
PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

N









PENNSYLVANIA STATE PLANE
COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME
ATWELL
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11721 WOODMORE RD, SUITE 200
MITCHELLSBURG, 20721
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STAMP

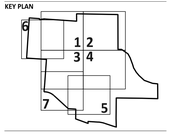
COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



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OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

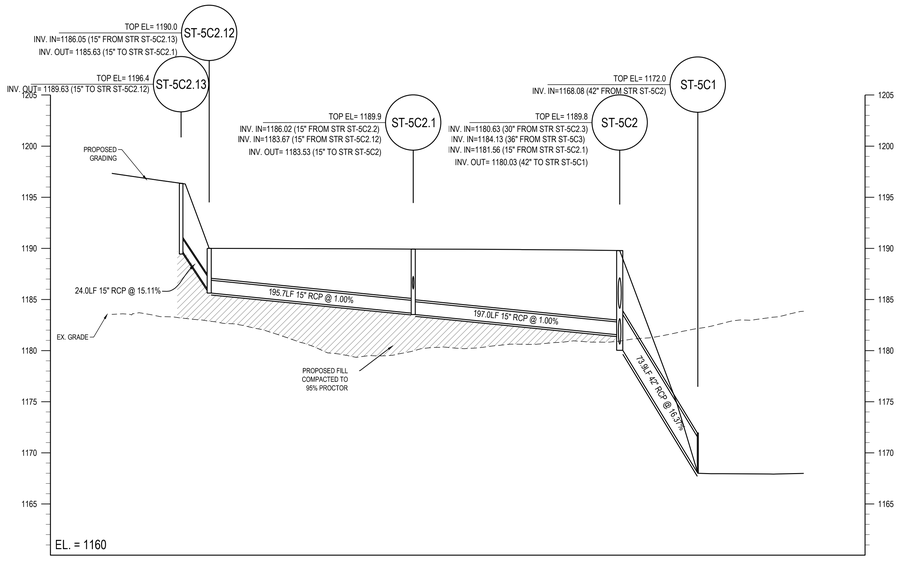
STORMWATER PROFILES

SHEET NUMBER

C347

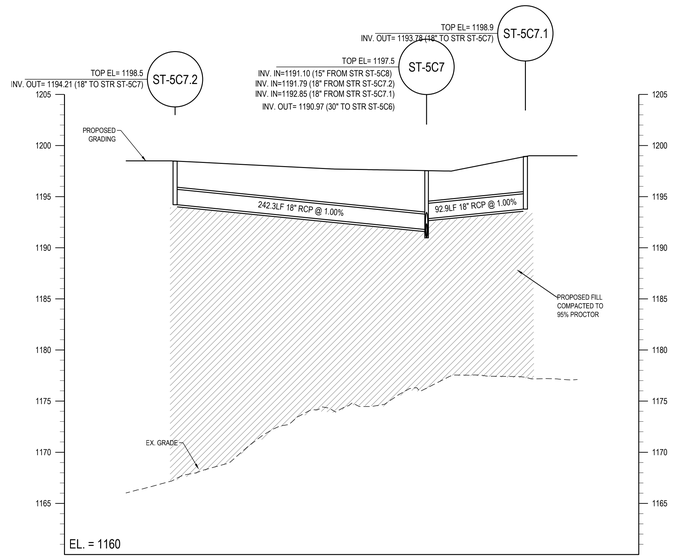
5C

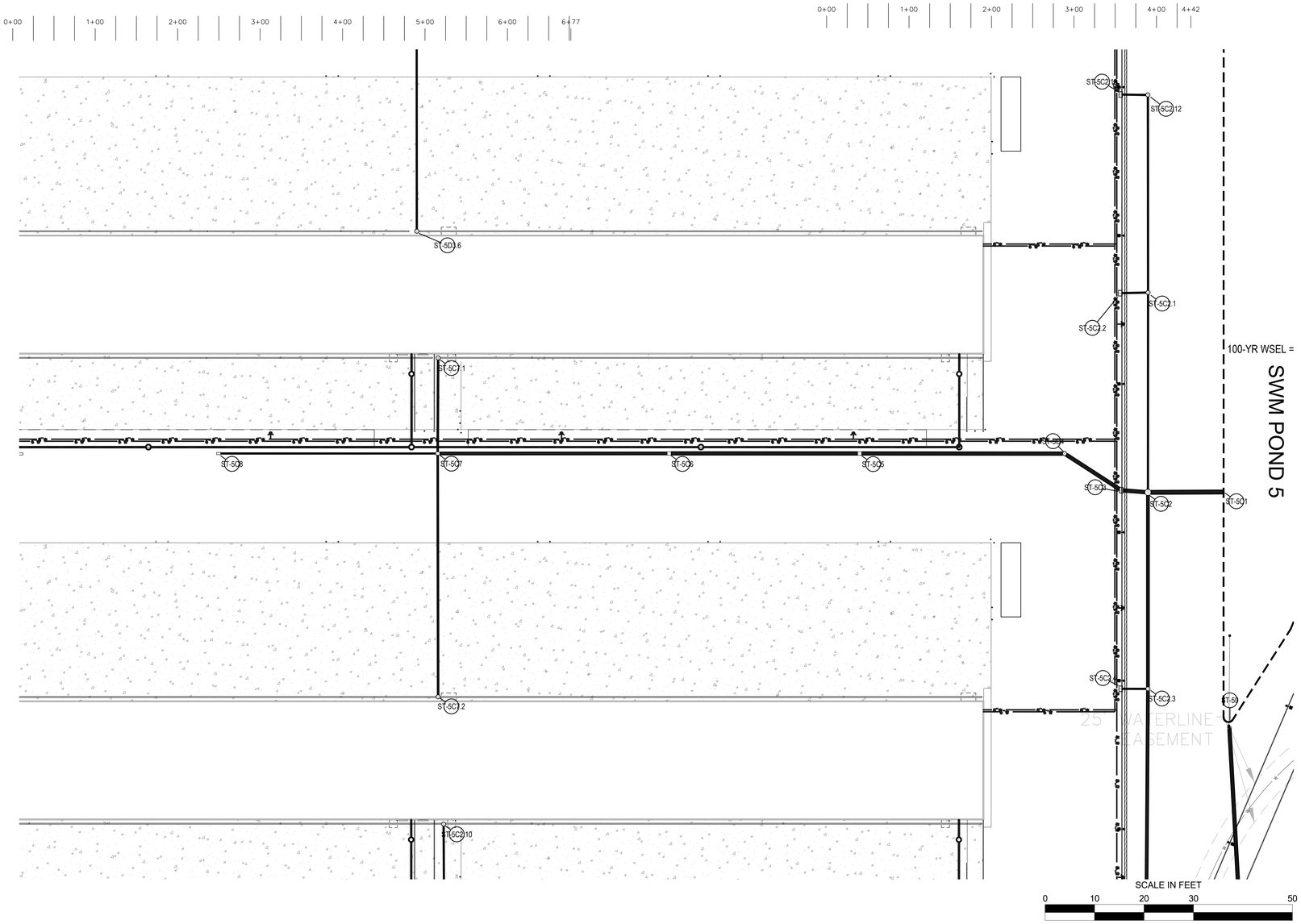
HORZ: 1"=60'
VERT: 1"=6'



5C

HORZ: 1"=60'
VERT: 1"=6'





PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

N

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSBURG, KY 40731
501.420.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453

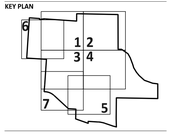
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/29/26
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OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
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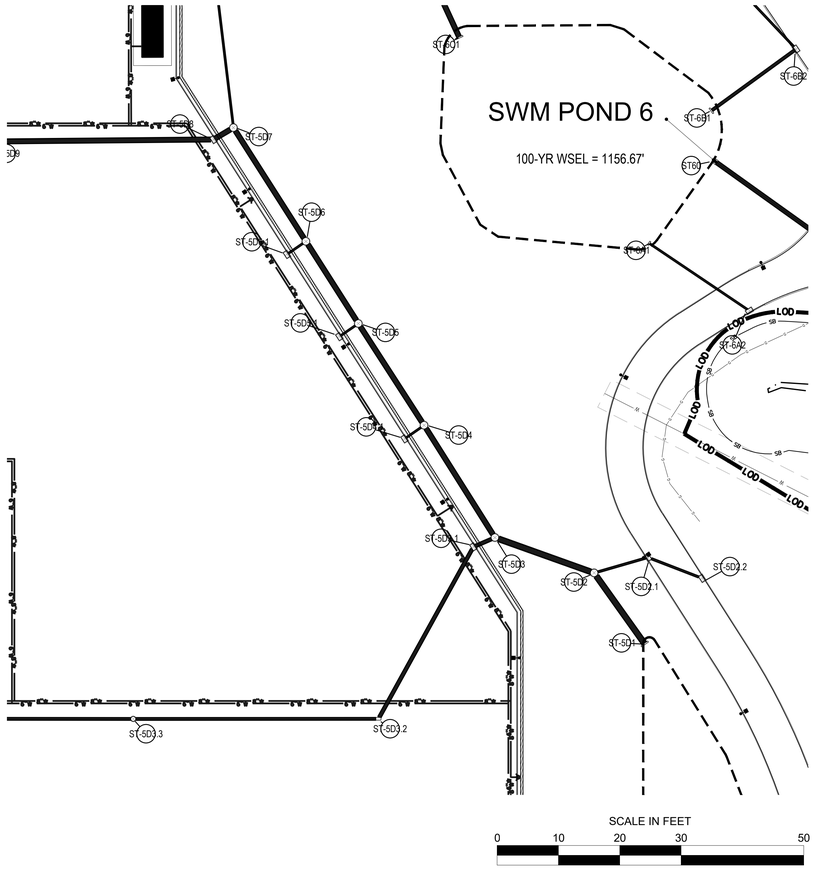
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

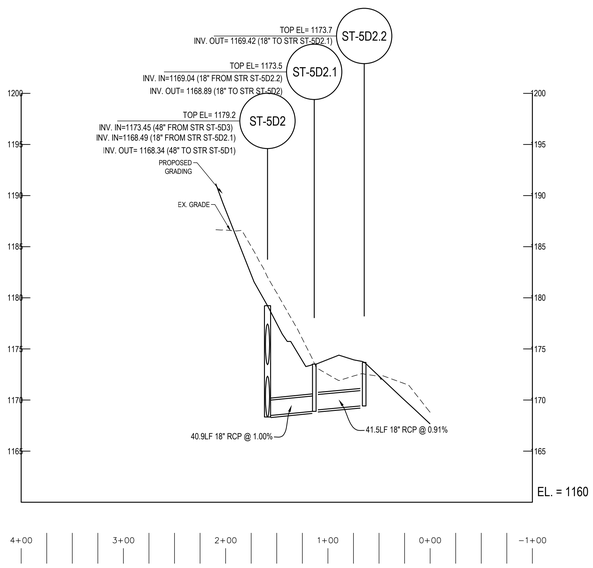
SHEET TITLE

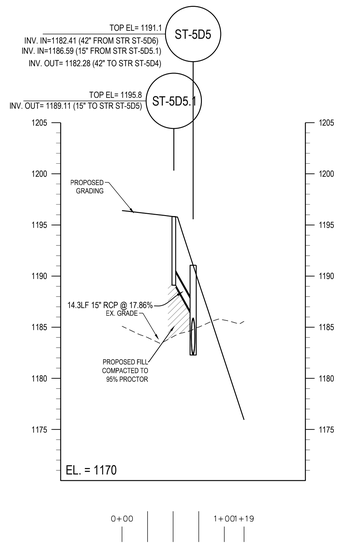
STORMWATER PROFILES

SHEET NUMBER

C348







DESIGN TEAM PRIME

ATWELL
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11721 WOODMORE RD, SUITE 200
MITCHELLVILLE, MD 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453

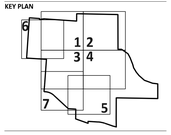
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/29/26
B	60% Review	06/08/26
C	90% Review	06/23/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

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DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

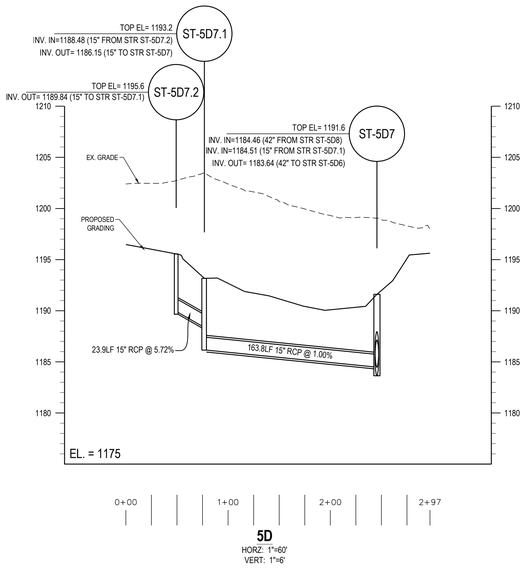
STORMWATER PROFILES

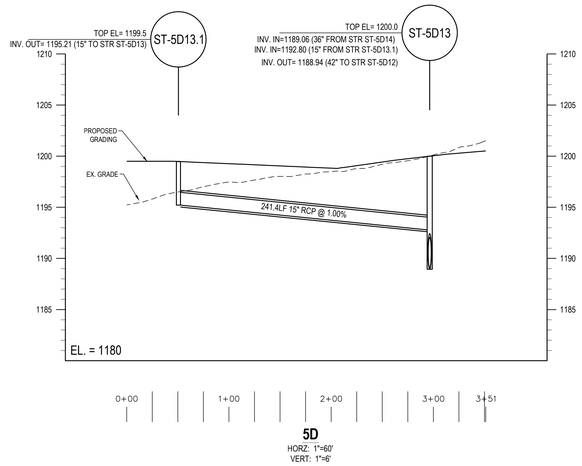
SHEET NUMBER

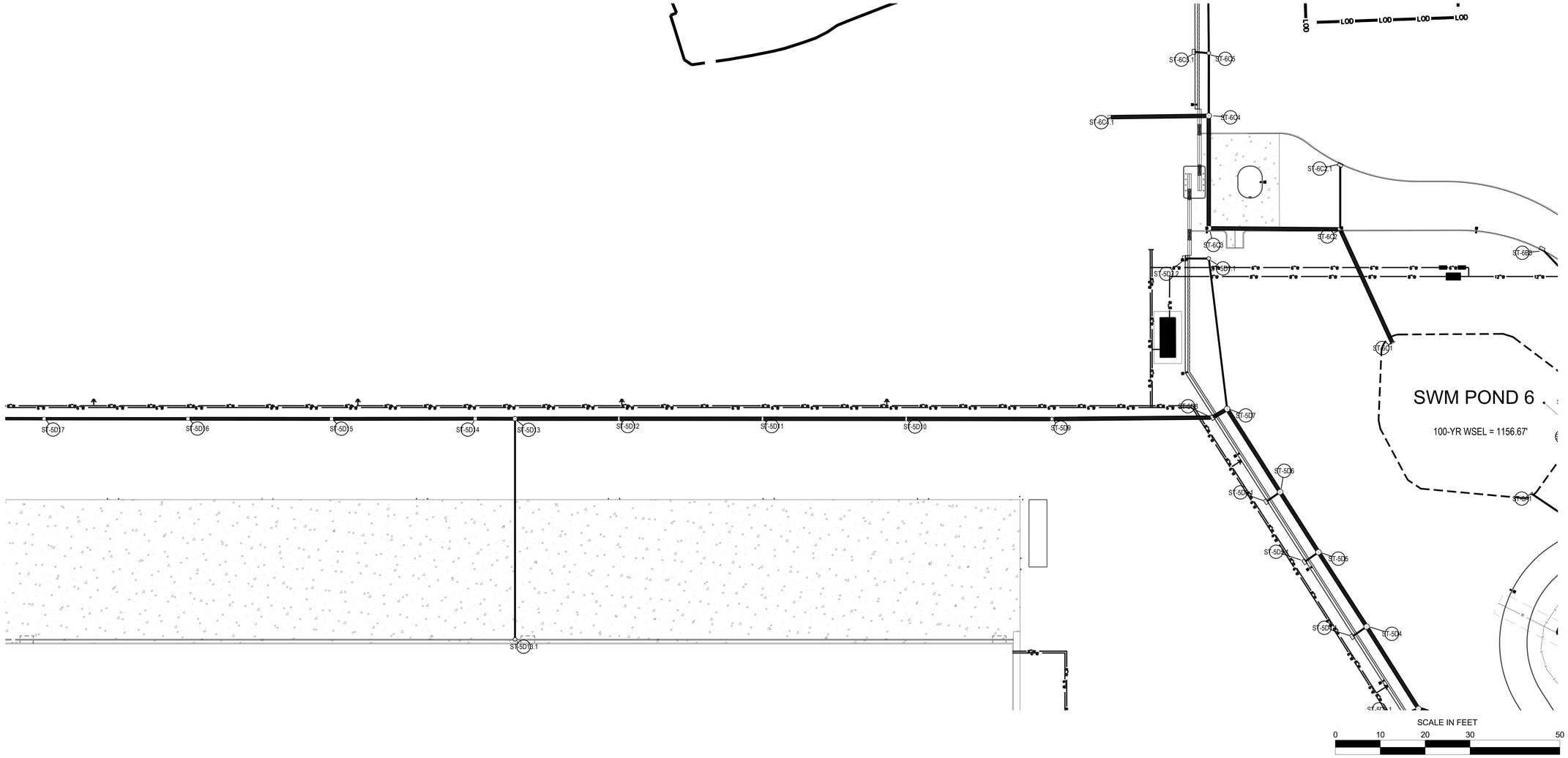
C349

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

N







DESIGN TEAM PRIME
ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSVILLE, 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453

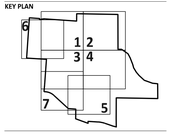
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



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A	30% Review	05/26/26
B	60% Review	06/08/26
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D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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DRAWING INFORMATION

DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

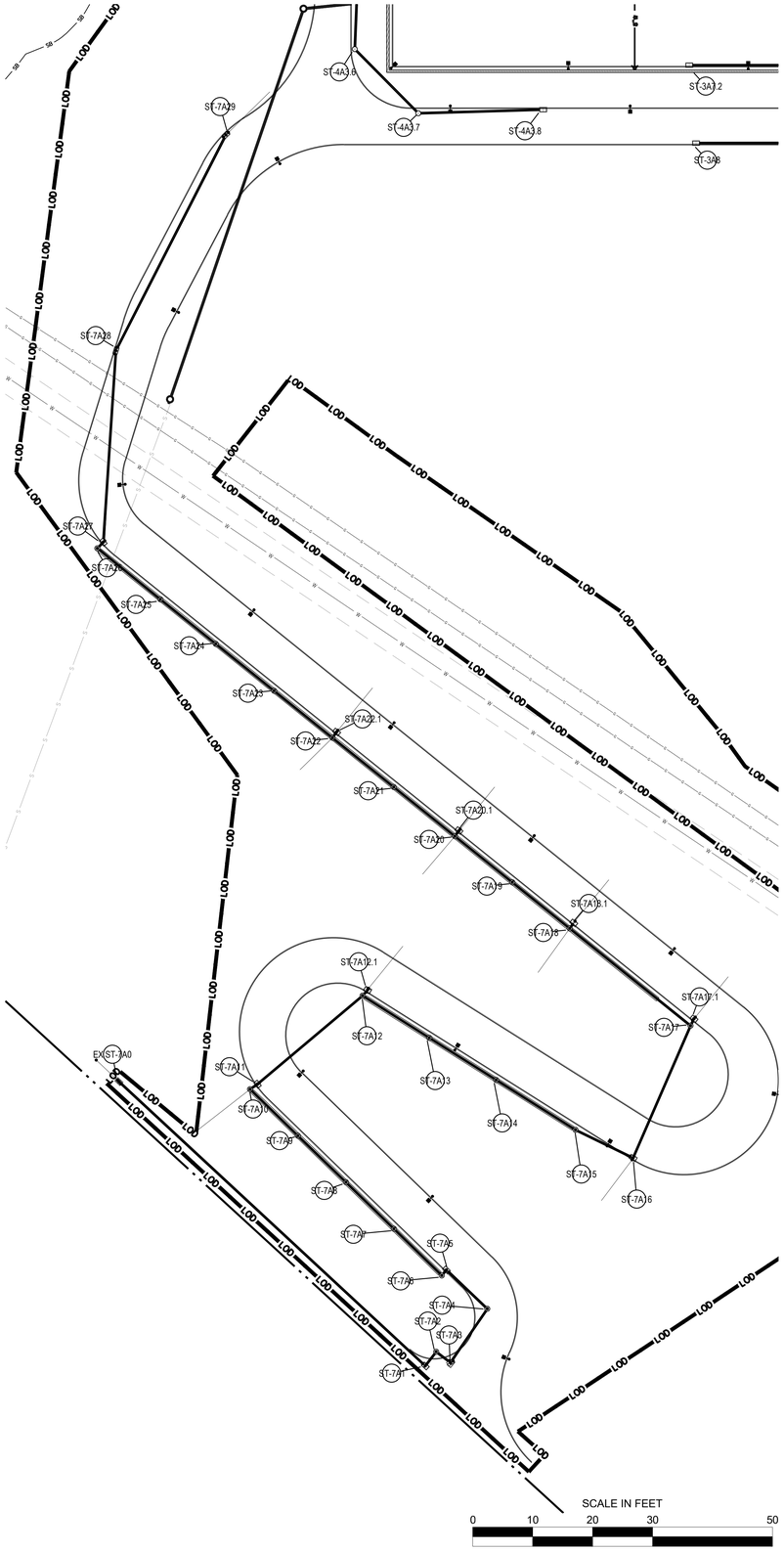
STORMWATER PROFILES

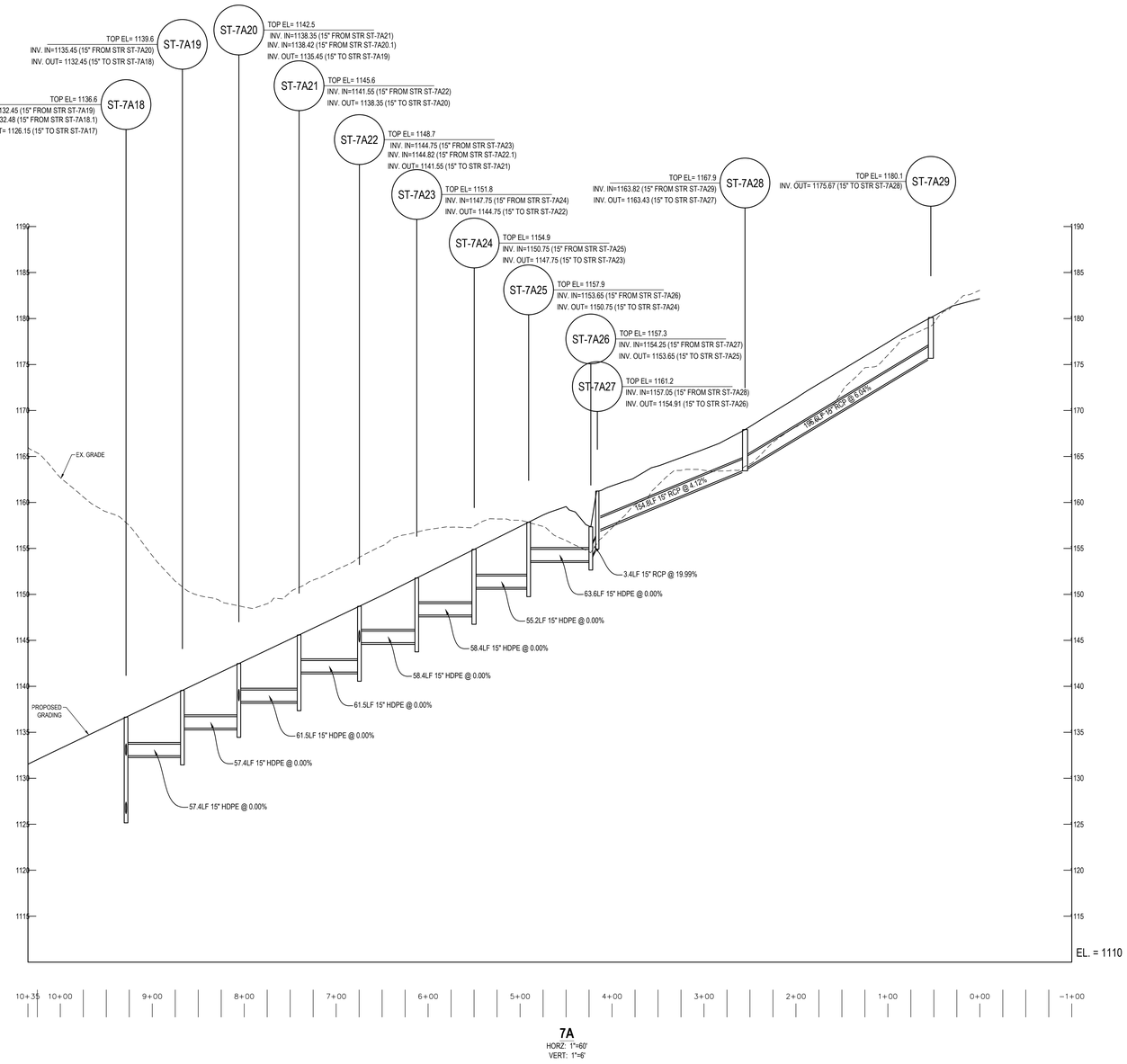
SHEET NUMBER

C350

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

N





7A
HORZ: 1"=60'
VERT: 1"=6'

PENNSYLVANIA STATE PLANE
COORDINATE SYSTEM: NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSBURG, KY 40731
501.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453

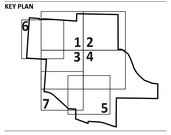
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



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OWNER

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DRAWING INFORMATION

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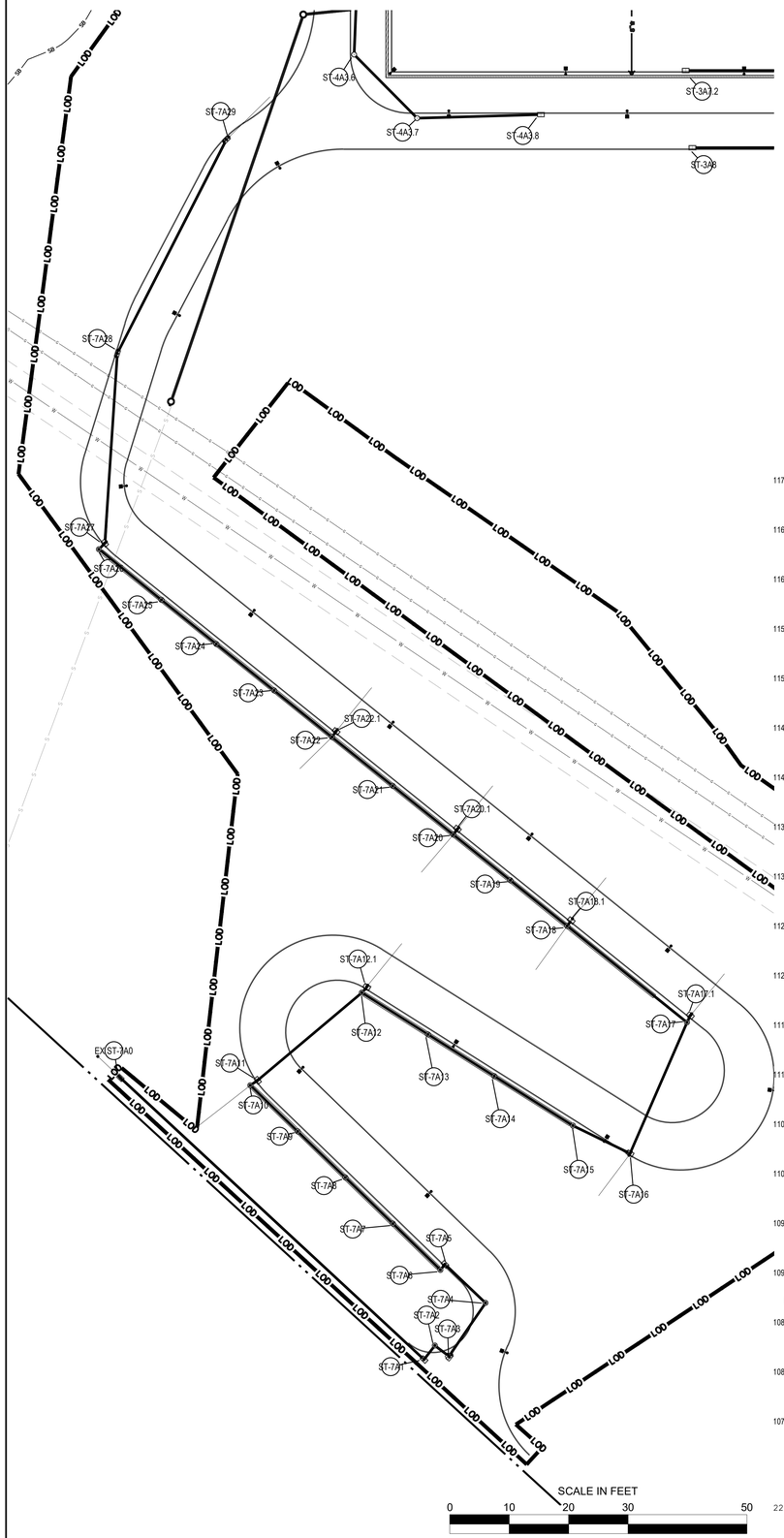
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

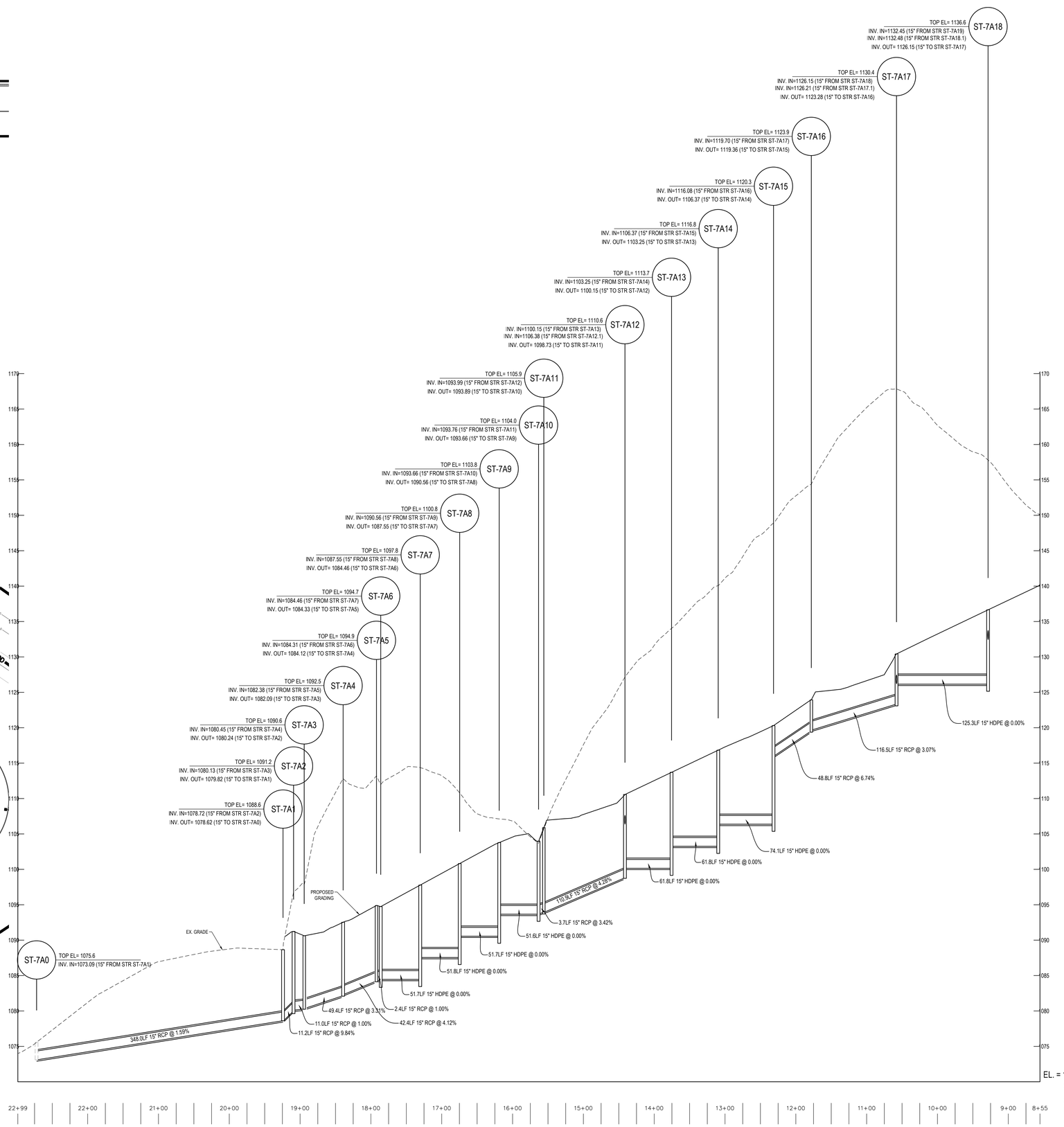
SHEET TITLE

STORMWATER PROFILES

SHEET NUMBER

C351





7A
HORZ: 1"=60'
VERT: 1"=6'

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

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866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSBURG, KY 40731
501.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453

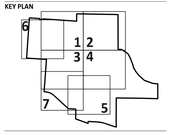
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
B	60% Review	06/08/26
C	90% Review	06/23/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

THIS DOCUMENT CONSTITUTES THE CONFIDENTIAL AND PROPRIETARY INFORMATION OF SWITCH. NOT TO BE SHARED, MODIFIED, OR DUPLICATED WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF SWITCH.

DRAWING INFORMATION

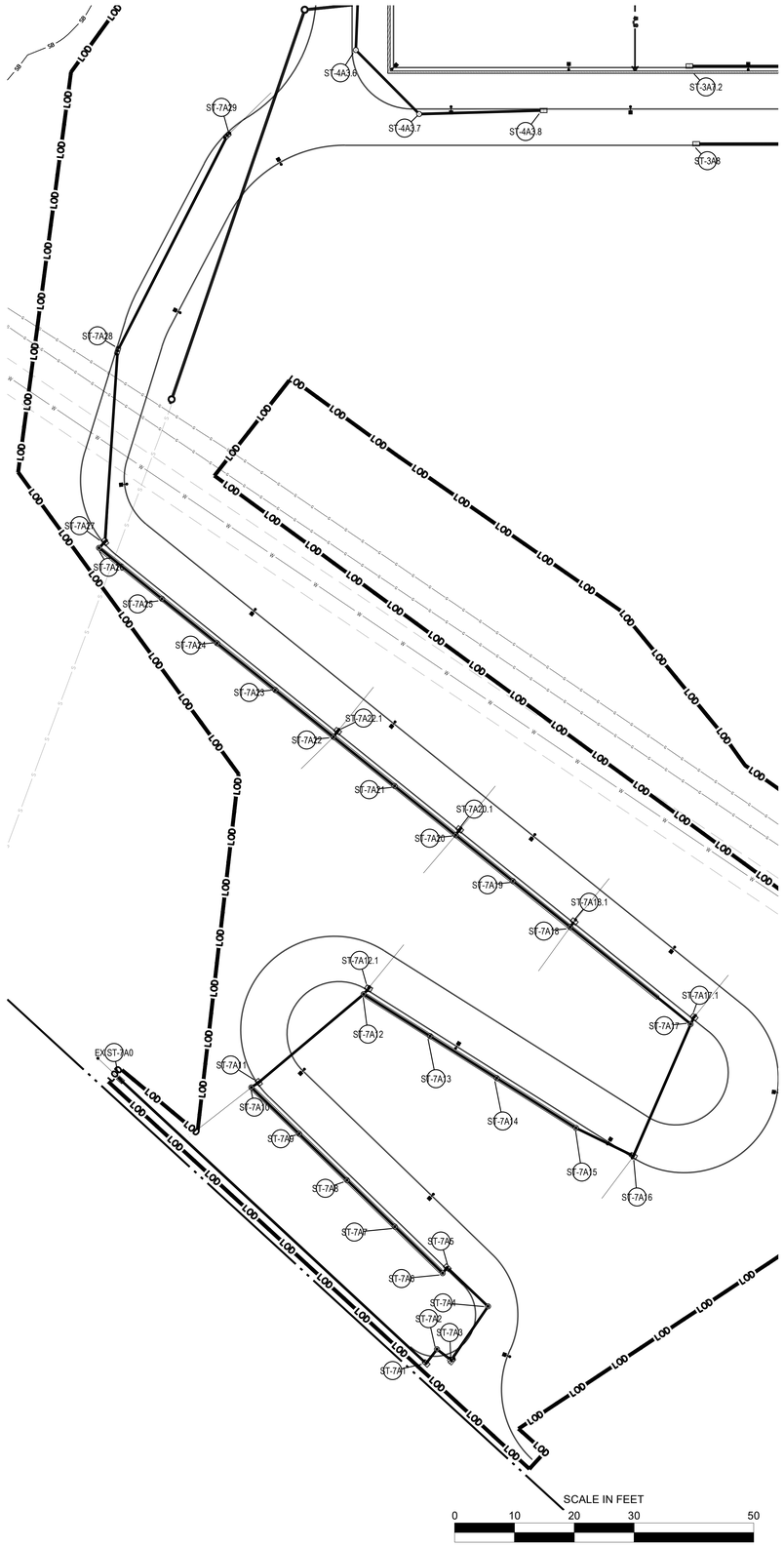
DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

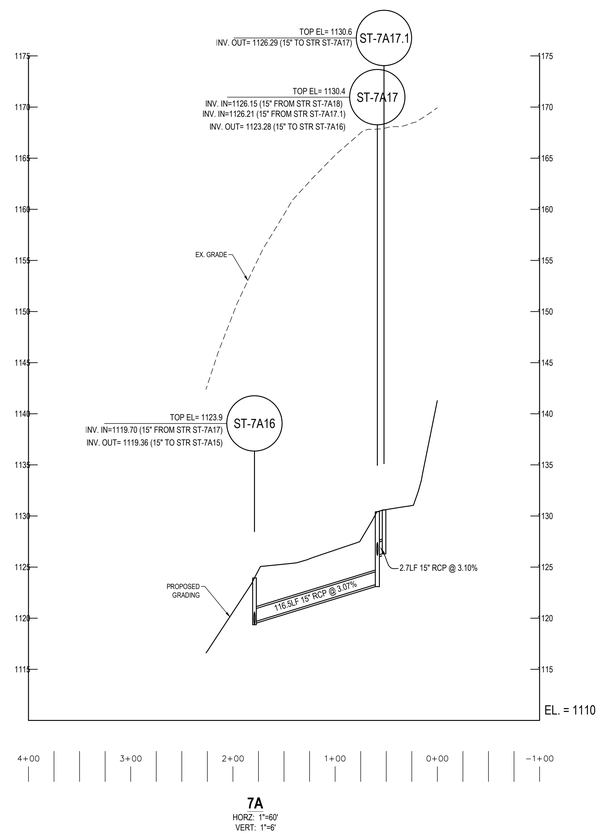
SHEET TITLE

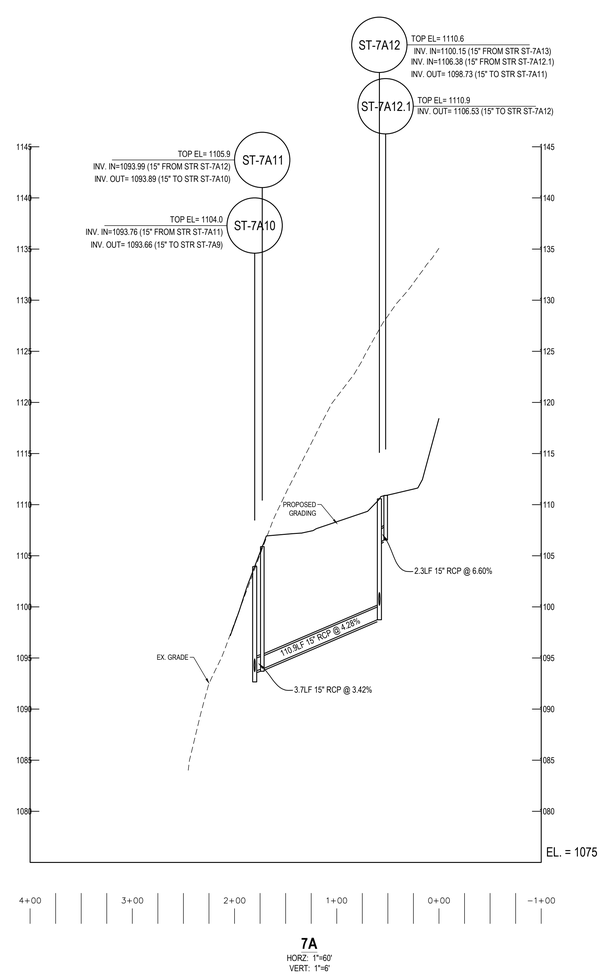
STORMWATER PROFILES

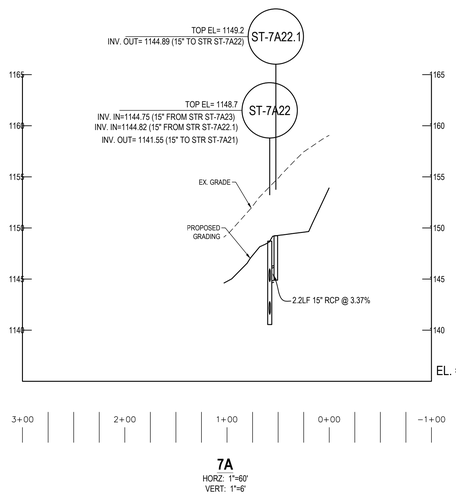
SHEET NUMBER

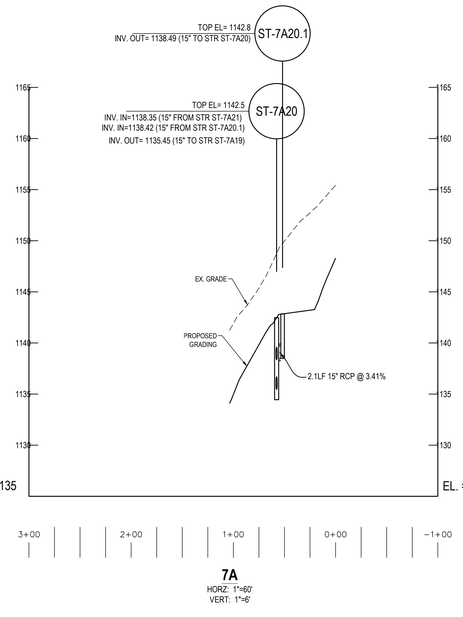
C352

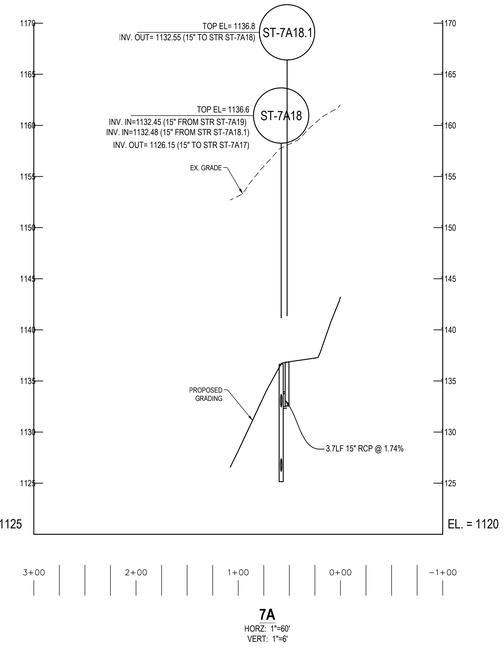












PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSBURG, 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA
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GEORGE J. HARTMAN III
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DESIGN TEAM DISCIPLINE

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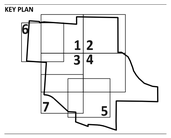
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	03/26/26
B	60% Review	04/08/26
C	90% Review	05/23/26
0	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

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DRAWING INFORMATION

DATE: JUNE 2026
PROJECT NUMBER: 25010482

DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

SHEET TITLE

STORMWATER PROFILES

SHEET NUMBER

C353

PRIVATE STRUCTURE SCHEDULE

STR NO.	INV. ELEV.	INV. ELEV. (AS-BUILT)	TOP ELEV.	TOP ELEV. (AS-BUILT)	STD. DETAIL
ST-1A1	1168.00		1172.42		SS-02 TYPE 'DW' ENDWALLSS-02 TYPE 'DW' ENDWALL
ST-1A2	1168.42		1191.55		SS-09 STORM MANHOLE 72"SS-09 STORM MANHOLE 72"
ST-1A2.1	1188.55		1195.02		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-1A3	1186.96		1191.90		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-1A3.1	1189.32		1195.29		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-1A4	1168.70		1191.18		SS-09 STORM MANHOLE 72"SS-09 STORM MANHOLE 72"
ST-1A5	1169.68		1194.33		SS-09 STORM MANHOLE 72"SS-09 STORM MANHOLE 72"
ST-1A5.1	1187.36		1195.41		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-1A6	1170.77		1197.27		SS-09 STORM MANHOLE 72"SS-09 STORM MANHOLE 72"
ST-1A6.1	1188.23		1195.48		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-1A7	1171.87		1198.69		SS-09 STORM MANHOLE 72"SS-09 STORM MANHOLE 72"
ST-1A7.1	1190.18		1195.48		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-1A8	1173.01		1194.18		SS-09 STORM MANHOLE 72"SS-09 STORM MANHOLE 72"
ST-1A8.1	1187.81		1195.48		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-1A8.2	1174.36		1178.92		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-1A9	1185.53		1195.48		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-1A10	1176.90		1189.11		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-1A11	1178.61		1185.22		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-1A11.1	1183.17		1195.48		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-1A12	1180.61		1187.22		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-1A12.1	1184.92		1195.48		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-1A13	1182.04		1189.23		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-1A13.1	1186.71		1195.48		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-1A14	1183.15		1191.08		SS-09 STORM MANHOLE 60"SS-09 STORM MANHOLE 60"
ST-1A14.1	1188.33		1195.48		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-1A15	1184.25		1193.23		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-1A16	1184.82		1194.82		SS-09 STORM MANHOLE 60"SS-09 STORM MANHOLE 60"
ST-1A17	1185.28		1194.85		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-1A18	1185.65		1196.41		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-1A19	1186.41		1198.09		SS-09 STORM MANHOLE 60"SS-09 STORM MANHOLE 60"
ST-1A19.1	1193.55		1198.16		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-1A20	1187.78		1198.23		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-1A20.1	1194.41		1198.95		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-1A21	1188.66		1199.42		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-1A21.1	1193.95		1198.48		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-1A22	1189.58		1197.84		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-1A23	1191.23		1197.43		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-1A24	1192.53		1197.02		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-3A1	1159.00		1162.34		SS-02 TYPE 'DW' ENDWALLSS-02 TYPE 'DW' ENDWALL
ST-3A2	1159.31		1169.71		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-3A2.1	1160.32		1165.05		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-3A2.2	1160.35		1164.93		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-3A2.3	1160.87		1165.82		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-3A2.4	1161.98		1166.96		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-3A3	1167.65		1178.04		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-3A4	1174.21		1186.65		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-3A4.1	1175.71		1184.72		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-3A4.2	1178.56		1183.56		SS-15 TYPE 'M' INLETSS-15 TYPE 'M' INLET
ST-3A5	1180.17		1190.59		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-3A5.1	1187.38		1196.81		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-3A5.2	1193.14		1198.42		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-3A6	1184.40		1190.93		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-3A7	1185.96		1191.70		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-3A7.1	1188.32		1196.81		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-3A7.2	1192.31		1196.81		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-3A8	1188.36		1192.69		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-3B1	1159.06		1160.76		SS-02 TYPE 'DW' ENDWALLSS-02 TYPE 'DW' ENDWALL
ST-3B2	1166.91		1191.34		SS-09 STORM MANHOLE 60"SS-09 STORM MANHOLE 60"
ST-3B2.1	1190.98		1196.81		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-3B3	1168.18		1192.73		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-3B4	1170.60		1192.09		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-3B5	1173.06		1190.87		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-3B6	1176.16		1189.44		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-3B7	1178.61		1183.16		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-3B8	1178.94		1183.45		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-4A1	1173.00		1176.34		SS-02 TYPE 'DW' ENDWALLSS-02 TYPE 'DW' ENDWALL
ST-4A2	1174.75		1193.03		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-4A3	1175.17		1194.58		SS-09 STORM MANHOLE 60"SS-09 STORM MANHOLE 60"
ST-4A3.1	1176.19		1192.48		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-4A3.2	1191.51		1196.04		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-4A3.3	1186.47		1190.74		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-4A3.4	1178.12		1190.40		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-4A3.5	1190.42		1195.90		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-4A3.6	1179.72		1187.19		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-4A3.7	1180.57		1184.80		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-4A3.8	1185.77		1190.51		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-4A4	1187.74		1196.18		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-4A5	1189.00		1197.54		SS-15 TYPE 'M' INLET EXTRA WIDESS-15 TYPE 'M' INLET EXTRA WIDE
ST-4A6	1189.99		1197.54		SS-15 TYPE 'M' INLET EXTRA WIDESS-15 TYPE 'M' INLET EXTRA WIDE
ST-4A7	1190.99		1197.54		SS-15 TYPE 'M' INLET EXTRA WIDESS-15 TYPE 'M' INLET EXTRA WIDE
ST-4A8	1191.66		1197.54		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-4A8.1	1194.21		1198.48		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-4A8.2	1194.64		1198.92		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-4A9	1193.16		1197.54		SS-15 TYPE 'M' INLETSS-15 TYPE 'M' INLET
ST-4B1	1173.10		1176.97		SS-02 TYPE 'DW' ENDWALLSS-02 TYPE 'DW' ENDWALL
ST-4B2	1183.83		1190.81		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-4B2.1	1186.01		1192.35		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-4B3	1185.55		1194.64		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-4B3.1	1187.02		1193.81		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-4B3.2	1189.34		1196.66		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"

PRIVATE STRUCTURE SCHEDULE

STR NO.	INV. ELEV.	INV. ELEV. (AS-BUILT)	TOP ELEV.	TOP ELEV. (AS-BUILT)	STD. DETAIL
ST-4B3.3	1195.20		1199.48		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-4B3.4	1189.94		1196.59		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-4B3.5	1192.03		1197.31		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-4B3.6	1193.65		1198.11		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-4B4	1186.50		1197.48		SS-09 STORM MANHOLE 60"SS-09 STORM MANHOLE 60"
ST-4B5	1186.95		1197.99		SS-15 TYPE 'M' INLET EXTRA WIDESS-15 TYPE 'M' INLET EXTRA WIDE
ST-4B6	1188.04		1198.04		SS-15 TYPE 'M' INLET EXTRA WIDESS-15 TYPE 'M' INLET EXTRA WIDE
ST-4B7	1189.14		1198.04		SS-15 TYPE 'M' INLET EXTRA WIDESS-15 TYPE 'M' INLET EXTRA WIDE
ST-4B8	1189.26		1198.04		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-4B8.1	1195.11		1199.42		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-4B9	1190.04		1198.04		SS-15 TYPE 'M' INLET EXTRA WIDESS-15 TYPE 'M' INLET EXTRA WIDE
ST-4B10	1191.14		1198.04		SS-15 TYPE 'M' INLET EXTRA WIDESS-15 TYPE 'M' INLET EXTRA WIDE
ST-4B10.1	1194.71		1198.98		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-4B11	1193.32		1198.04		SS-15 TYPE 'M' INLETSS-15 TYPE 'M' INLET
ST-5A1	1168.01		1169.44		SS-02 TYPE 'DW' ENDWALLSS-02 TYPE 'DW' ENDWALL
ST-5A2	1168.71		1174.51		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-5A2.1	1169.99		1174.44		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-5A3	1169.82		1174.44		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-5A4	1171.20		1175.69		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-5C1	1168.08		1171.96		SS-02 TYPE 'DW' ENDWALLSS-02 TYPE 'DW' ENDWALL
ST-5C2	1180.03		1189.79		SS-09 STORM MANHOLE 72"SS-09 STORM MANHOLE 72"
ST-5C2.1	1183.53		1189.93		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-5C2.2	1189.57		1196.39		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-5C2.3	1181.60		1189.61		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-5C2.4	1189.64		1195.87		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-5C2.5	1183.01		1191.07		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-5C2.6	1183.40		1196.05		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-5C2.7	1186.06		1196.81		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-5C2.8	1188.31		1196.81		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-5C2.9	1190.28		1196.81		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-5C2.10	1193.31		1198.41		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-5C2.11	1192.34		1196.81		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-5C2.12	1185.63		1190.00		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-5C2.13	1189.45		1196.36		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-5C3	1186.64		1195.85		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-5C4	1187.27		1196.64		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-5C5	1188.41		1197.54		SS-15 TYPE 'M' INLET EXTRA WIDESS-15 TYPE 'M' INLET EXTRA WIDE
ST-5C6	1189.59		1197.54		SS-15 TYPE 'M' INLET EXTRA WIDESS-15 TYPE 'M' INLET EXTRA WIDE
ST-5C7	1190.97		1197.54		SS-15 TYPE 'M' INLET EXTRA WIDESS-15 TYPE 'M' INLET EXTRA WIDE
ST-5C7.1	1193.78		1198.92		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-5C7.2	1194.21		1198.48		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-5C8	1193.09		1197.54		SS-15 TYPE 'M' INLETSS-15 TYPE 'M' INLET
ST-5D1	1168.00		1172.42		SS-02 TYPE 'DW' ENDWALLSS-02 TYPE 'DW' ENDWALL
ST-5D2	1168.34		1179.23		SS-09 STORM MANHOLE 72"SS-09 STORM MANHOLE 72"
ST-5D2.1	1168.89		1173.52		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-5D2.2	1169.42		1173.68		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-5D3	1180.46		1192.34		SS-09 STORM MANHOLE 72"SS-09 STORM MANHOLE 72"
ST-5D3.1	1183.91		1196.22		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-5D3.2	1184.63		1197.55		SS-15 TYPE 'M' INLETSS-15 TYPE 'M' INLET
ST-5D3.3	1187.08		1198.20		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-5D3.4	1189.01		1198.04		SS-15 TYPE 'M' INLETSS-15 TYPE 'M' INLET
ST-5D3.5	1190.22		1198.04		SS-15 TYPE 'M' INLETSS-15 TYPE 'M' INLET
ST-5D3.6	1194.71		1198.98		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-5D3.7	1192.36		1198.04		SS-15 TYPE 'M' INLETSS-15 TYPE 'M' INLET
ST-5D3.8	1193.67		1198.04		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-5D3.9	1195.14		1199.42		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-5D4	1181.67		1191.47		SS-09 STORM MANHOLE 72"SS-09 STORM MANHOLE 72"
ST-5D4.1	1188.97		1196.01		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-5D5	1182.28		1191.06		SS-09 STORM MANHOLE 72"SS-09 STORM MANHOLE 72"
ST-5D5.1	1189.11		1195.81		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-5D6	1182.90		1190.81		SS-09 STORM MANHOLE 72"SS-09 STORM MANHOLE 72"
ST-5D6.1	1189.16		1195.66		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-5D7	1183.64		1191.61		SS-09 STORM MANHOLE 72"SS-09 STORM MANHOLE 72"
ST-5D7.1	1186.15		1193.16		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-5D7.2	1189.66		1195.55		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-5D8	1184.54		1195.44		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-5D9	1185.55		1198.02		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-5D10	1186.47		1199.06		SS-15 TYPE 'M' INLETSS-15 TYPE 'M' INLET
ST-5D11	1187.37		1199.55		SS-15 TYPE 'M' INLETSS-15 TYPE 'M' INLET
ST-5D12	1188.27		1199.84		SS-15 TYPE 'M' INLETSS-15 TYPE 'M' INLET
ST-5D13	1188.94		1200.00		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-5D13.1	1195.21		1199.48		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-5D14	1189.20		1200.06		SS-15 TYPE 'M' INLET EXTRA WIDESS-15 TYPE 'M' INLET EXTRA WIDE
ST-5D15	1190.10		1200.24		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-5D16	1190.73		1200.38		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-5D17	1191.96		1200.42		SS-15 TYPE 'M' INLET EXTRA WIDESS-15 TYPE 'M' INLET EXTRA WIDE
ST-5D18	1192.86		1200.44		SS-15 TYPE 'M' INLET EXTRA WIDESS-15 TYPE 'M' INLET EXTRA WIDE
ST-5D19	1194.56		1200.46		SS-15 TYPE 'M' INLETSS-15 TYPE 'M' INLET
ST-5D20	1196.07		1200.52		SS-15 TYPE 'M' INLETSS-15 TYPE 'M' INLET
ST-6A1	1150.03		1151.46		SS-02 TYPE 'DW' ENDWALLSS-02 TYPE 'DW' ENDWALL
ST-6A2	1152.33		1156.69		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-6B1	1150.00		1152.25		SS-02 TYPE 'DW' ENDWALLSS-02 TYPE 'DW' ENDWALL
ST-6B2	1150.50		1157.72		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-6B3	1161.12		1168.93		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-6C1	1150.09		1153.97		SS-02 TYPE 'DW' ENDWALLSS-02 TYPE 'DW' ENDWALL
ST-6C2	1175.40		1184.90		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-6C2.1	1179.99		1187.38		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-6C3	1182.02		1193.63		SS-09 STORM MANHOLE 72"SS-09 STORM MANHOLE 72"
ST-6C4	1183.43		1196.87		SS-09 STORM MANHOLE 72"SS-09 STORM MANHOLE 72"
ST-6C4.1	1184.11		1190.62		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET

PRIVATE STRUCTURE SCHEDULE

STR NO.	INV. ELEV.	INV. ELEV. (AS-BUILT)	TOP ELEV.	TOP ELEV. (AS-BUILT)	STD. DETAIL
ST-6C5	1186.60		1199.60		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-6C5.1	1191.98		1196.24		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-6C6	1188.93		1193.29		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-6C7	1190.88		1195.77		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-7A0	1073.09		1075.58		Existing StructureExisting Structure
ST-7A1	1078.62		1088.65		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-7A2	1079.63		1091.23		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-7A3	1080.24		1090.62		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-7A4	1082.09		1092.53		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-7A5	1084.12		1094.89		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-7A6	1083.33		1094.75		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-7A7	1083.46		1097.78		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-7A8	1086.55		1100.82		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-7A9	1089.56		1103.78		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-7A10	1092.66		1103.95		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-7A11	1093.70		1105.90		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-7A12	1098.73		1110.57		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-7A12.1	1106.53		1110.90		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-7A13	1099.15		1113.69		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-7A14	1102.25		1116.83		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-7A15	1105.37		1120.30		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-7A16	1119.36		1123.94		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-7A17	1123.09		1130.42		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-7A17.1	1126.29		1130.59		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-7A18	1125.15		1136.64		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-7A18.1	1132.55		1136.84		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-7A19	1131.45		1139.56		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-7A20	1134.45		1142.47		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-7A20.1	1138.49		1142.85		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-7A21	1137.35		1145.59		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-7A22	1140.55		1148.71		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-7A22.1	1144.89		1149.24		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-7A23	1143.75		1151.77		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-7A24	1146.75		1154.89		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-7A25	1149.75		1157.85		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-7A26	1152.65		1157.35		SS-09 STORM MANHOLE 48"SS-09 STORM MANHOLE 48"
ST-7A27	1154.91		1161.23		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-7A28	1163.43		1167.93		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-7A29	1175.67		1180.11		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-10	1167.99		1173.91		SS-15 TYPE 'M' INLETSS-15 TYPE 'M' INLET
ST-10.1	1167.67		1172.09		SS-02 TYPE 'DW' ENDWALLSS-02 TYPE 'DW' ENDWALL
ST-20	1179.70		1184.21		SS-15 TYPE 'M' INLETSS-15 TYPE 'M' INLET
ST-20.1	1179.60		1182.39		SS-02 TYPE 'DW' ENDWALLSS-02 TYPE 'DW' ENDWALL
ST-30	1158.82		1163.81		SS-15 TYPE 'M' INLETSS-15 TYPE 'M' INLET
ST-30.1	1158.23		1161.56		SS-02 TYPE 'DW' ENDWALLSS-02 TYPE 'DW' ENDWALL
ST-40	1172.99		1178.36		SS-15 TYPE 'M' INLETSS-15 TYPE 'M' INLET
ST-40.1	1172.29		1176.17		SS-02 TYPE 'DW' ENDWALLSS-02 TYPE 'DW' ENDWALL
ST-50	1167.66		1172.83		SS-15 TYPE 'M' INLETSS-15 TYPE 'M' INLET
ST-50.1	1166.51		1169.85		SS-02 TYPE 'DW' ENDWALLSS-02 TYPE 'DW' ENDWALL
ST-60	1149.75		1154.75		SS-15 TYPE 'M' INLETSS-15 TYPE 'M' INLET
ST-60.1	1138.71		1147.95		SS-09 STORM MANHOLE 60"SS-09 STORM MANHOLE 60"
ST-60.2	1130.59		1138.41		SS-12 TYPE 'C' INLETSS-12 TYPE 'C' INLET
ST-60.3	1130.50		1133.83		SS-02 TYPE 'DW' ENDWALLSS-02 TYPE 'DW' ENDWALL

SCALE IN FEET

0 10 20 30 50

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

N

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSBURG, KY, 40731
501.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE079453

GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 079453

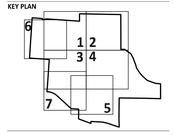
DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03 EARLY WORKS PRELIMINARY LAND DEVELOPMENT PLANS

BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
B	60% Review	06/09/26
C	90% Review	06/23/26
0	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

THIS DOCUMENT CONSTITUTES THE CONFIDENTIAL AND PROPRIETARY INFORMATION OF SWITCH. NOT TO BE SHARED, MODIFIED, OR DUPLICATED WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF SWITCH.

DRAWING INFORMATION

DATE: JUNE 2026
PROJECT NUMBER: 25010482

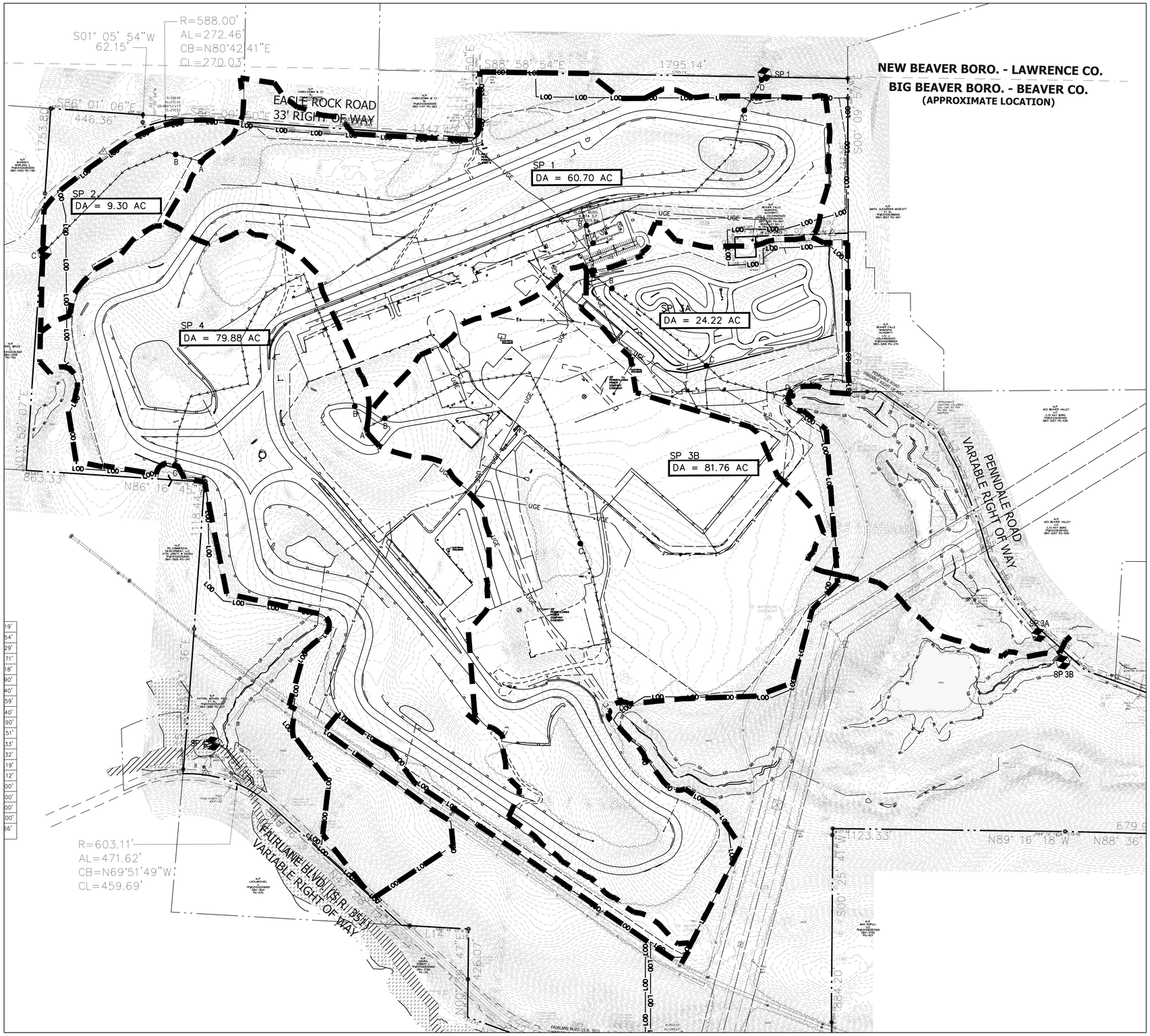
DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

SHEET TITLE

STORM STRUCTURE TABLES

SHEET NUMBER

C354



DA 1 to SP 1								
	Area (Ac)	CN	Tc (Hrs)	2 Yr CFS	10 Yr CFS	25 Yr CFS	50 Yr CFS	100 Yr CFS
Existing	60.7	84	0.352	36.63	60.09	81.35	141.27	170.99
Proposed (w/o SMM)	46.73	88	0.24	73.83	99.91	121.84	178.83	204.9
Proposed (w/ SMM)	46.73	88	0.24	35.1	49.03	60.66	95.03	112.86

DA 2 to SP 2								
	Area (Ac)	CN	Tc (Hrs)	2 Yr CFS	10 Yr CFS	25 Yr CFS	50 Yr CFS	100 Yr CFS
Existing	9.3	74	0.157	6.31	10.37	14.09	24.63	29.89
Proposed (w/o SMM)	5.4	78	0.193	3.79	6.14	8.28	14.28	17.24
Proposed (w/ SMM)	5.4	78	0.193	3.79	6.14	8.28	14.28	17.24

DA 3A to SP 3A								
	Area (Ac)	CN	Tc (Hrs)	2 Yr CFS	10 Yr CFS	25 Yr CFS	50 Yr CFS	100 Yr CFS
Existing	24.22	85	0.325	13.86	22.89	31.07	64	65.34
Proposed (w/o SMM)	30.7	91	0.17	62	81.23	97.28	138.21	157.14
Proposed (w/ SMM)	30.7	91	0.17	10.72	16.59	21.87	36.16	43.09

DA 3B to SP 3B								
	Area (Ac)	CN	Tc (Hrs)	2 Yr CFS	10 Yr CFS	25 Yr CFS	50 Yr CFS	100 Yr CFS
Existing	81.76	79	0.413	40.42	67.24	91.45	160.31	193.86
Proposed (w/o SMM)	92.39	93	0.171	204.38	262.63	310.5	433.01	489.03
Proposed (w/ SMM)	92.39	93	0.171	32.47	49.85	64.26	103.37	121.2

DA 4 to SP 4								
	Area (Ac)	CN	Tc (Hrs)	2 Yr CFS	10 Yr CFS	25 Yr CFS	50 Yr CFS	100 Yr CFS
Existing	79.88	79	0.218	49.1	81.78	111.65	195.94	237.84
Proposed (w/o SMM)	80.35	89	0.193	142.59	190.7	231.06	335.05	382.76
Proposed (w/ SMM)	80.35	89	0.193	41.16	63.54	82.56	134	159.53

ET Switch Pit 01-03
Existing SP
Beaver County, Pennsylvania

Sub-Area Land Use and Curve Number Details

Sub-Area Identifier	Land Use	Hydrologic Soil Group	Sub-Area Area (ac)	Curve Number
SP1	Paved parking lots, roofs, driveways	C	8.64	98
	Paved parking lots, roofs, driveways	D	14.03	98
	Meadow -cont. grass (non grazed)	C	9.89	71
	Meadow -cont. grass (non grazed)	D	16.06	78
	Woods (good)	C	4.6	70
	Woods (good)	D	7.48	77
	Total Area / Weighted Curve Number		60.7	84
SP2	Woods (good)	C	3.54	70
	Woods (good)	D	5.76	77
	Total Area / Weighted Curve Number		9.3	74
SP4	Paved parking lots, roofs, driveways	C	4.74	98
	Paved parking lots, roofs, driveways	D	7.71	98
	Meadow -cont. grass (non grazed)	C	17.89	71
	Meadow -cont. grass (non grazed)	D	29.06	78
	Woods (good)	C	7.8	70
	Woods (good)	D	12.68	77
	Total Area / Weighted Curve Number		79.88	79
SP3A	Paved parking lots, roofs, driveways	C	3.79	98
	Paved parking lots, roofs, driveways	D	6.15	98
	Meadow -cont. grass (non grazed)	C	4.53	71
	Meadow -cont. grass (non grazed)	D	7.27	78
	Woods (good)	C	.94	70
	Woods (good)	D	1.54	77
	Total Area / Weighted Curve Number		24.22	85
SP3B	Paved parking lots, roofs, driveways	C	5.38	98
	Paved parking lots, roofs, driveways	D	8.75	98
	Meadow -cont. grass (non grazed)	C	20.02	71
	Meadow -cont. grass (non grazed)	D	32.53	78
	Woods (good)	C	5.83	70
	Woods (good)	D	9.25	77
	Total Area / Weighted Curve Number		81.76	79

ET Switch Pit 01-03
Proposed SP Analysis
Beaver County, Pennsylvania

Sub-Area Land Use and Curve Number Details

Sub-Area Identifier	Land Use	Hydrologic Soil Group	Sub-Area Area (ac)	Curve Number
SP 1	Open space; grass cover > 75% (good)	C	4.1	74
	Open space; grass cover > 75% (good)	D	6.67	80
	Paved parking lots, roofs, driveways	D	23.96	98
	Meadow -cont. grass (non grazed)	C	4.57	71
	Meadow -cont. grass (non grazed)	D	7.43	78
	Total Area / Weighted Curve Number		46.73	88
SP 2	Meadow -cont. grass (non grazed)	C	2.06	71
	Meadow -cont. grass (non grazed)	D	3.34	78
	Total Area / Weighted Curve Number		5.4	75
SP 3B	Open space; grass cover > 75% (good)	C	6.9	74
	Open space; grass cover > 75% (good)	D	11.22	80
	Paved parking lots, roofs, driveways	D	69.05	98
	Meadow -cont. grass (non grazed)	C	1.99	71
	Meadow -cont. grass (non grazed)	D	3.23	78
	Total Area / Weighted Curve Number		92.39	93
SP 4	Open space; grass cover > 75% (good)	C	8.74	74
	Open space; grass cover > 75% (good)	D	14.19	80
	Paved parking lots, roofs, driveways	D	44.52	98
	Meadow -cont. grass (non grazed)	C	4.91	71
	Meadow -cont. grass (non grazed)	D	7.99	78
	Total Area / Weighted Curve Number		80.35	89
SP 3A	Open space; grass cover > 75% (good)	C	2.04	74
	Open space; grass cover > 75% (good)	D	3.32	80
	Paved parking lots, roofs, driveways	D	20.6	98
	Meadow -cont. grass (non grazed)	C	1.81	71
	Meadow -cont. grass (non grazed)	D	2.93	78
	Total Area / Weighted Curve Number		30.7	91

LEGEND

- PROPERTY BOUNDARY
- PROPOSED CONTOUR (78)
- EXISTING 10 FT. CONTOUR (180)
- EXISTING 2 FT. CONTOUR (178)
- SP DRAINAGE DIVIDE
- POINT OF INVESTIGATION
- PROPOSED FLOW PATH (A → B)

SCALE: 1" = 200'

0 200 400 600 1000

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MONTGOMERY, 20731
SO.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453

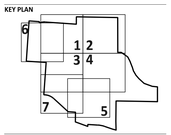
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/25/26
B	60% Review	06/09/26
C	90% Review	06/23/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

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DRAWING INFORMATION

DATE: JUNE 2026
PROJECT NUMBER: 25010482

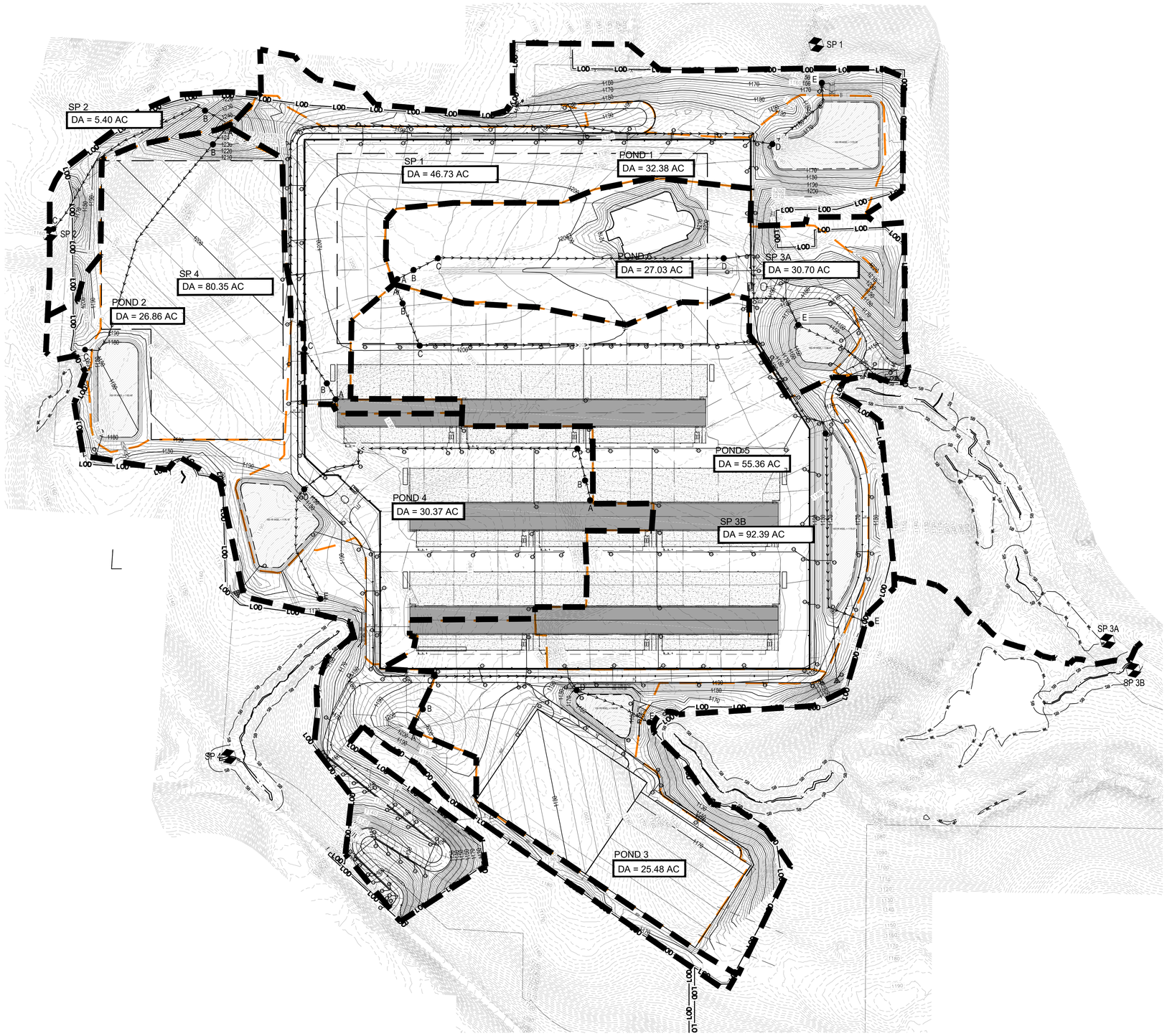
DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

SHEET TITLE

EXISTING DRAINAGE AREA MAP

SHEET NUMBER C355

PENNSYLVANIA STATE PLANE
COORDINATE SYSTEM, NAD83



DA 1 to SP 1								
	Area (Ac)	CN	Tc (Hrs)	2 Yr CFS	10 Yr CFS	25 Yr CFS	50 Yr CFS	100 Yr CFS
Existing	60.7	84	0.352	36.63	60.09	81.35	141.27	170.99
Proposed (w/o SWM)	46.73	88	0.24	73.83	99.91	121.84	178.83	204.9
Proposed (w/ SWM)	46.73	88	0.24	35.1	49.03	60.66	95.03	112.86

DA 2 to SP 2								
	Area (Ac)	CN	Tc (Hrs)	2 Yr CFS	10 Yr CFS	25 Yr CFS	50 Yr CFS	100 Yr CFS
Existing	9.3	74	0.157	6.31	10.37	14.09	24.63	29.89
Proposed (w/o SWM)	5.4	78	0.193	3.79	6.14	8.28	14.28	17.24
Proposed (w/ SWM)	5.4	78	0.193	3.79	6.14	8.28	14.28	17.24

DA 3A to SP 3A								
	Area (Ac)	CN	Tc (Hrs)	2 Yr CFS	10 Yr CFS	25 Yr CFS	50 Yr CFS	100 Yr CFS
Existing	24.22	85	0.325	13.86	22.89	31.07	54	65.34
Proposed (w/o SWM)	30.7	91	0.17	62	81.23	97.28	138.21	157.14
Proposed (w/ SWM)	30.7	91	0.17	10.72	16.59	21.87	36.16	43.09

DA 3B to SP 3B								
	Area (Ac)	CN	Tc (Hrs)	2 Yr CFS	10 Yr CFS	25 Yr CFS	50 Yr CFS	100 Yr CFS
Existing	81.76	79	0.413	40.42	67.24	91.45	160.31	193.86
Proposed (w/o SWM)	92.39	93	0.171	204.38	262.63	310.5	433.01	489.03
Proposed (w/ SWM)	92.39	93	0.171	32.47	49.85	64.26	103.37	121.2

DA 4 to SP 4								
	Area (Ac)	CN	Tc (Hrs)	2 Yr CFS	10 Yr CFS	25 Yr CFS	50 Yr CFS	100 Yr CFS
Existing	79.88	79	0.218	49.1	81.78	111.65	195.94	237.84
Proposed (w/o SWM)	80.35	89	0.193	142.59	190.7	231.06	335.05	382.76
Proposed (w/ SWM)	80.35	89	0.193	41.16	63.54	82.56	134	159.53

ET Switch Pit 01-03
Existing SP
Beaver County, Pennsylvania

Sub-Area Land Use and Curve Number Details

Sub-Area Identifier	Land Use		Hydrologic Soil Group	Sub-Area Area (ac)	Curve Number
SP1	Meadow -cont. grass (non grazed)		C	7.31	71
	Meadow -cont. grass (non grazed)		D	11.88	78
	Woods	(good)	C	15.82	70
	Woods	(good)	D	25.69	77
	Total Area / Weighted Curve Number			60.7	75
SP2	Woods	(good)	C	3.54	70
	Woods	(good)	D	5.76	77
	Total Area / Weighted Curve Number			9.3	74
SP4	Meadow -cont. grass (non grazed)		C	2.22	71
	Meadow -cont. grass (non grazed)		D	3.6	78
	Woods	(good)	C	28.22	70
	Woods	(good)	D	45.84	77
	Total Area / Weighted Curve Number			79.88	74
SP3A	Meadow -cont. grass (non grazed)		C	6.2	71
	Meadow -cont. grass (non grazed)		D	10.08	78
	Woods	(good)	C	3.02	70
	Woods	(good)	D	4.92	77
	Total Area / Weighted Curve Number			24.22	75
SP3B	Meadow -cont. grass (non grazed)		C	10.61	71
	Meadow -cont. grass (non grazed)		D	17.24	78
	Woods	(good)	C	20.54	70
	Woods	(good)	D	33.37	77
	Total Area / Weighted Curve Number			81.76	75

ET Switch Pit 01-03
Proposed SP Analysis
Beaver County, Pennsylvania

Sub-Area Land Use and Curve Number Details

Sub-Area Identifier	Land Use		Hydrologic Soil Group	Sub-Area Area (ac)	Curve Number
SP 1	Open space; grass cover > 75%	(good)	C	4.1	74
	Open space; grass cover > 75%	(good)	D	6.67	80
	Paved parking lots, roofs, driveways		D	23.96	98
	Meadow -cont. grass (non grazed)		C	4.57	71
	Meadow -cont. grass (non grazed)		D	7.43	78
	Total Area / Weighted Curve Number			46.73	88
SP 2	Meadow -cont. grass (non grazed)		C	2.06	71
	Meadow -cont. grass (non grazed)		D	3.34	78
	Total Area / Weighted Curve Number			5.4	75
SP 3B	Open space; grass cover > 75%	(good)	C	6.9	74
	Open space; grass cover > 75%	(good)	D	11.22	80
	Paved parking lots, roofs, driveways		D	69.05	98
	Meadow -cont. grass (non grazed)		C	1.99	71
	Meadow -cont. grass (non grazed)		D	3.23	78
	Total Area / Weighted Curve Number			92.39	93
SP 4	Open space; grass cover > 75%	(good)	C	8.74	74
	Open space; grass cover > 75%	(good)	D	14.19	80
	Paved parking lots, roofs, driveways		D	44.52	98
	Meadow -cont. grass (non grazed)		C	4.91	71
	Meadow -cont. grass (non grazed)		D	7.99	78
	Total Area / Weighted Curve Number			80.35	89
SP 3A	Open space; grass cover > 75%	(good)	C	2.04	74
	Open space; grass cover > 75%	(good)	D	3.32	80
	Paved parking lots, roofs, driveways		D	20.6	98
	Meadow -cont. grass (non grazed)		C	1.81	71
	Meadow -cont. grass (non grazed)		D	2.93	78
	Total Area / Weighted Curve Number			30.7	91

LEGEND

- PROPERTY BOUNDARY
- PROPOSED CONTOUR (78)
- EXISTING 10 FT. CONTOUR (180)
- EXISTING 2 FT. CONTOUR (178)
- SP DRAINAGE DIVIDE
- POND DRAINAGE DIVIDE
- POINT OF INVESTIGATION
- PROPOSED FLOW PATH (A → B)

SCALE IN FEET
0 200 400 600 1000

PENNSYLVANIA STATE PLANE
COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSBURG, OH 45701
937.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453

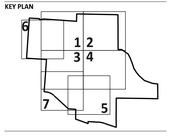
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
B	60% Review	06/08/26
C	90% Review	06/22/26
0	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

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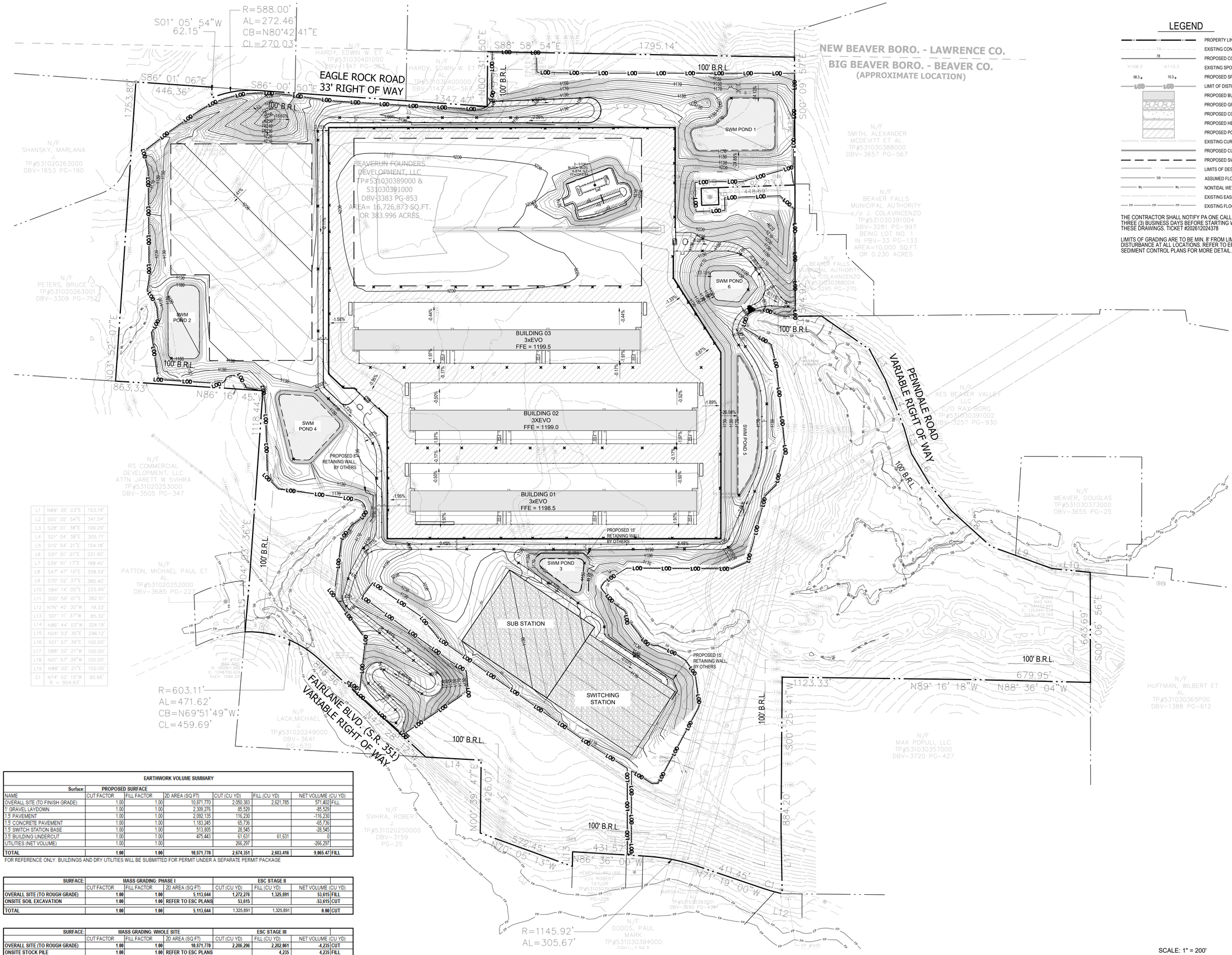
DRAWING INFORMATION

DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

PROPOSED DRAINAGE AREA MAP

SHEET NUMBER C356



L1	N89° 35' 03"E	153.19'
L2	S55° 05' 54"E	341.54'
L3	S28° 01' 38"E	199.29'
L4	S21° 04' 38"E	305.71'
L5	S15° 54' 21"E	154.18'
L6	S31° 01' 21"E	221.90'
L7	S39° 51' 17"E	188.40'
L8	S47° 47' 10"E	308.59'
L9	S70° 02' 37"E	380.40'
L10	S84° 14' 05"E	225.90'
L11	S00° 59' 01"E	382.51'
L12	N76° 45' 30"W	19.33'
L13	S01° 11' 37"W	85.32'
L14	N86° 44' 03"W	324.19'
L15	N04° 53' 30"E	296.12'
L16	S01° 57' 39"E	100.00'
L17	S88° 02' 21"W	100.00'
L18	N01° 57' 39"W	100.00'
L19	N88° 02' 21"E	100.00'
C1	N74° 02' 15"W R = 954.93'	90.66'

LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- LIMIT OF DISTURBANCE
- PROPOSED BUILDING
- PROPOSED GRAVEL AREA
- PROPOSED CONCRETE PAVING
- PROPOSED HEAVY DUTY ASPHALT PAVING
- PROPOSED POND
- EXISTING CURB
- PROPOSED CURB
- PROPOSED SWM POND
- LIMITS OF DESIGNATED STREAM
- ASSUMED FLOODWAY BUFFER
- NONTIDAL WETLAND
- EXISTING EASEMENT
- EXISTING FLOODPLAIN

THE CONTRACTOR SHALL NOTIFY PA ONE CALL 1-800-242-1776, THREE (3) BUSINESS DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TICKET #202612024378

LIMITS OF GRADING ARE TO BE MIN. 8' FROM LIMIT OF DISTURBANCE AT ALL LOCATIONS. REFER TO EROSION AND SEDIMENT CONTROL PLANS FOR MORE DETAIL.

EARTHWORK VOLUME SUMMARY

Surface:	PROPOSED SURFACE						
NAME	CUT FACTOR	FILL FACTOR	2D AREA (SQ FT)	CUT (CU YD)	FILL (CU YD)	NET VOLUME (CU YD)	
OVERALL SITE (TO FINISH GRADE)	1.00	1.00	10,871,770	2,050,383	2,621,785	571,402	FILL
1' GRAVEL LAYDOWN	1.00	1.00	2,309,276	85,529		-85,529	
1.5' PAVEMENT	1.00	1.00	2,092,135	116,230		-116,230	
1.5' CONCRETE PAVEMENT	1.00	1.00	1,183,245	65,736		-65,736	
1.5' SWITCH STATION BASE	1.00	1.00	513,805	28,545		-28,545	
3.5' BUILDING UNDERCUT	1.00	1.00	475,443	61,631	61,631	0	
UTILITIES (NET VOLUME)	1.00	1.00		266,297		-266,297	
TOTAL	**1.00**	**1.00**	**10,871,770**	**2,674,351**	**2,683,416**	**9,065.47**	**FILL**

FOR REFERENCE ONLY. BUILDINGS AND DRY UTILITIES WILL BE SUBMITTED FOR PERMIT UNDER A SEPARATE PERMIT PACKAGE

SURFACE:	MASS GRADING: PHASE I			ESC STAGE II			
	CUT FACTOR	FILL FACTOR	2D AREA (SQ FT)	CUT (CU YD)	FILL (CU YD)	NET VOLUME (CU YD)	
OVERALL SITE (TO ROUGH GRADE)	**1.00**	**1.00**	**5,113,644**	**1,272,276**	**1,325,891**	**53,615**	**FILL**
ONSITE SOIL EXCAVATION	**1.00**	**1.00**	**REFER TO ESC PLANS**	**53,615**		**-53,615**	**CUT**
TOTAL	**1.00**	**1.00**	**5,113,644**	1,325,891	1,325,891	**0.00**	**CUT**

SURFACE:	MASS GRADING: WHOLE SITE			ESC STAGE III			
	CUT FACTOR	FILL FACTOR	2D AREA (SQ FT)	CUT (CU YD)	FILL (CU YD)	NET VOLUME (CU YD)	
OVERALL SITE (TO ROUGH GRADE)	**1.00**	**1.00**	**10,871,770**	**2,286,296**	**2,282,061**	**-4,235**	**CUT**
ONSITE STOCK PILE	**1.00**	**1.00**	**REFER TO ESC PLANS**		**4,235**	**4,235**	**FILL**
TOTAL	**1.00**	**1.00**	**10,871,770**	2,286,296	2,286,296	**0.00**	**CUT**

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
919 CONESTOGA ROAD BUILDING 3, SUITE 213
BRYN MAWR, PA 19010
610.527.3030

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER GEORGE J. HARTMAN III ENGINEER PA. PE074453

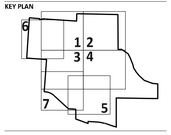
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 074453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/29/26
B	60% Review	06/08/26
C	90% Review	06/23/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

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DRAWING INFORMATION

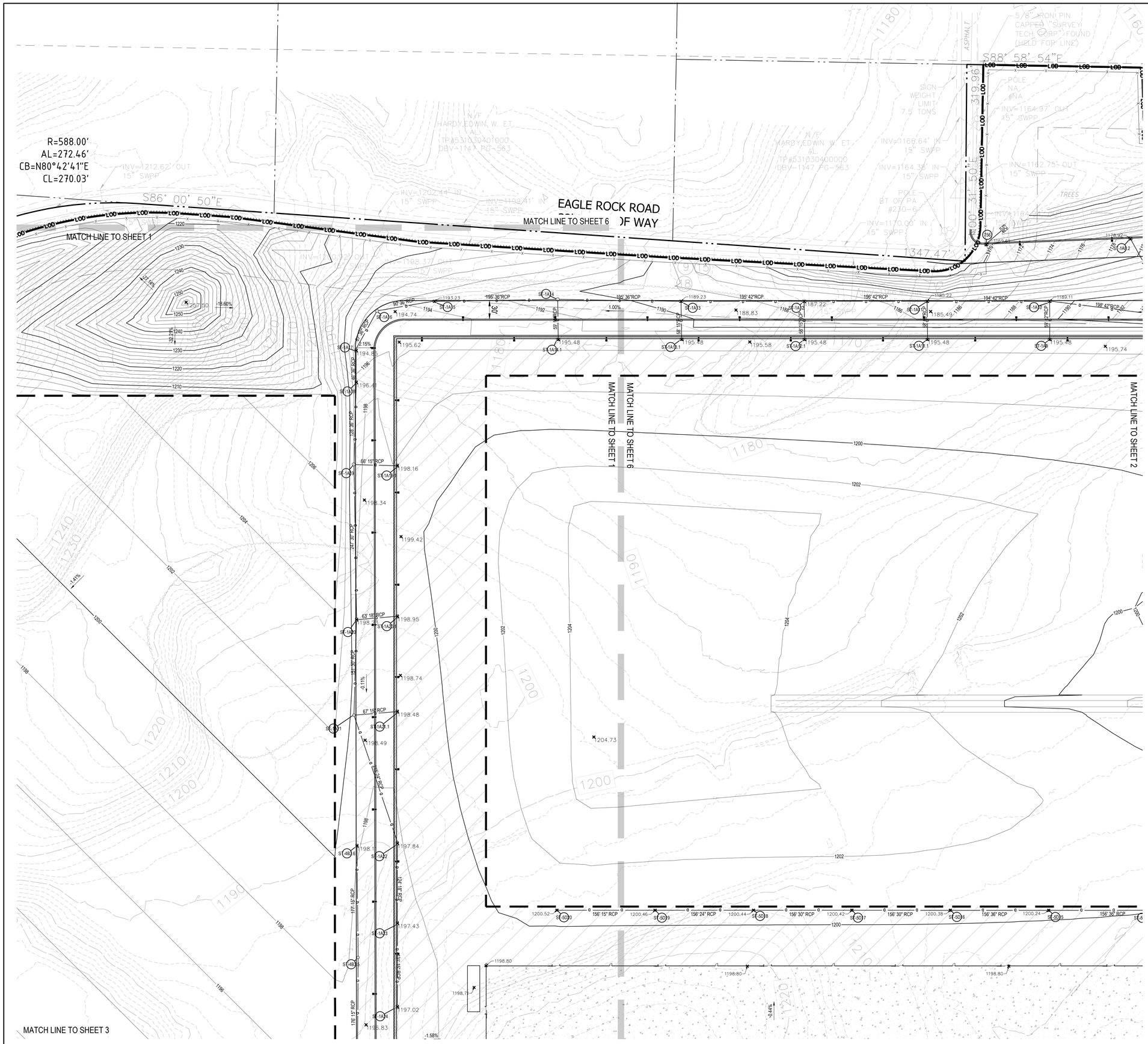
DATE:	JUNE 2026
PROJECT NUMBER:	25010482
SCALE:	1" = 200'
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

OVERALL GRADING & DRAINAGE PLAN

SHEET NUMBER

C400



LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- LIMIT OF DISTURBANCE
- PROPOSED BUILDING
- PROPOSED GRAVEL AREA
- PROPOSED CONCRETE PAVING
- PROPOSED HEAVY DUTY ASPHALT PAVING
- PROPOSED POND
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- PROPOSED STORM DRAIN
- LIMITS OF DESIGNATED STREAM
- ASSUMED FLOODWAY BUFFER
- NONTIDAL WETLAND
- EXISTING EASEMENT
- EXISTING FLOODPLAIN

THE CONTRACTOR SHALL NOTIFY PA ONE CALL 1-800-242-1776, THREE (3) BUSINESS DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. PICKET PA 1-800-242-1776.

NOTE: WATER TO SPOTS SHOWN ON MAXIMUM 2.5% SLOPE WITHOUT BENCHING.

LIMITS OF GRADING ARE TO BE MIN. 8' FROM LIMIT OF DISTURBANCE AT ALL LOCATIONS. REFER TO EROSION AND SEDIMENT CONTROL PLANS FOR MORE DETAIL.

SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
919 CONESTOGA ROAD BUILDING 3, SUITE 213
BRYN MAWR, PA 19010
610.527.3030

STAMP

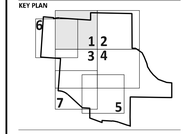
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
B	60% Review	06/08/26
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D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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DRAWING INFORMATION

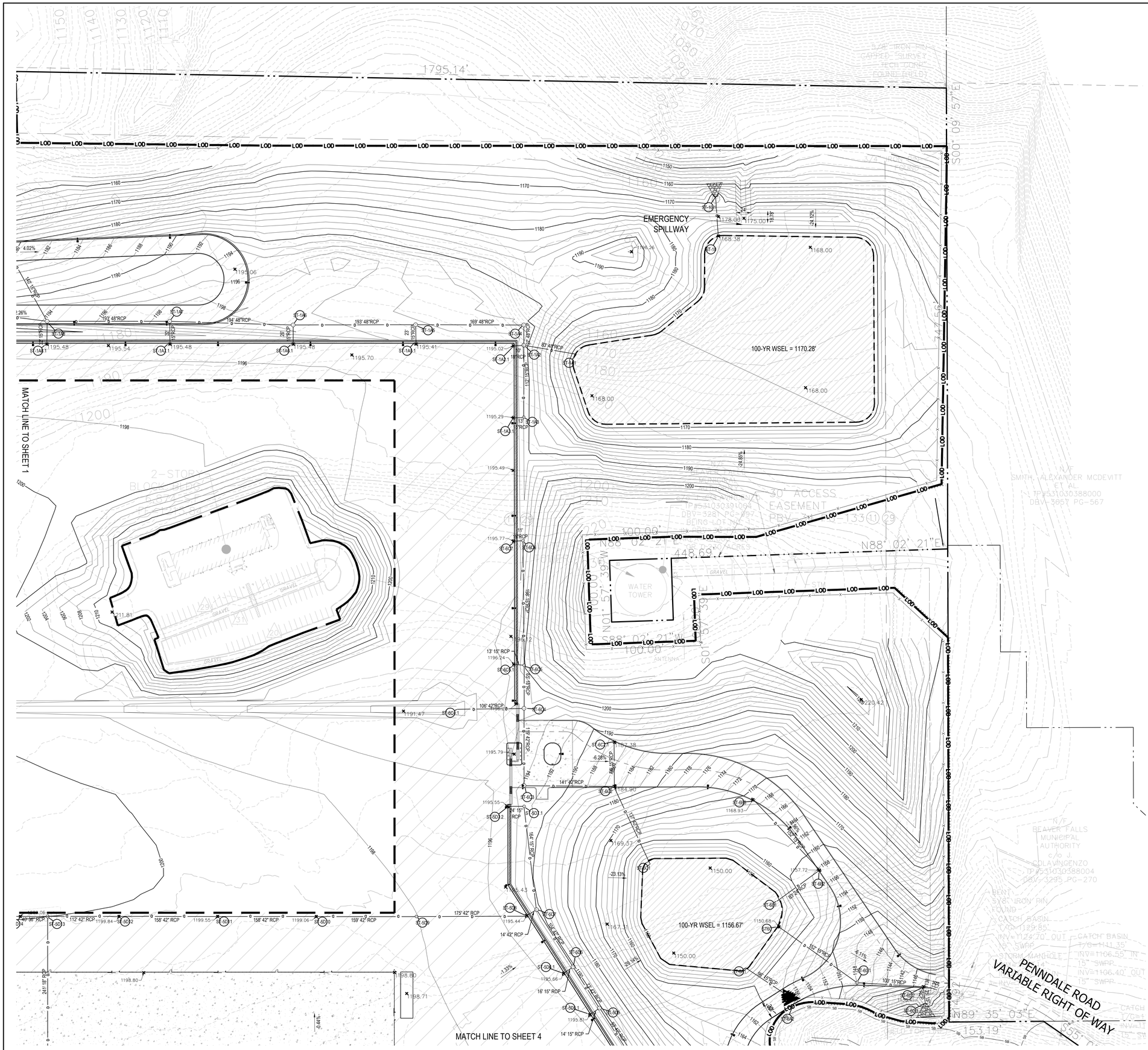
DATE:	JUNE 2026
PROJECT NUMBER:	25010482
SCALE:	1" = 200'
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

GRADING & DRAINAGE PLAN

SHEET NUMBER

C401



LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- LIMIT OF DISTURBANCE
- PROPOSED BUILDING
- PROPOSED GRAVEL AREA
- PROPOSED CONCRETE PAVING
- PROPOSED HEAVY DUTY ASPHALT PAVING
- PROPOSED POND
- EXISTING CURB
- PROPOSED CURB
- PROPOSED SWM POND
- EXISTING STORM DRAIN
- PROPOSED STORM DRAIN
- LIMITS OF DESIGNATED STREAM
- ASSUMED FLOODWAY BUFFER
- NONTIDAL WETLAND
- EXISTING EASEMENT
- EXISTING FLOODPLAIN

THE CONTRACTOR SHALL NOTIFY PA ONE CALL 1-800-242-1776, THREE (3) BUSINESS DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TICKET #20251224378

LIMITS OF GRADING ARE TO BE MIN. 8' FROM LIMIT OF DISTURBANCE AT ALL LOCATIONS. REFER TO EROSION AND SEDIMENT CONTROL PLANS FOR MORE DETAIL.

SCALE: 1" = 60'

0 60 120 180 300

N

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
919 CONESTOGA ROAD BUILDING 3, SUITE 215
BRYN MAWR, PA 19010
610.527.3030

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076453

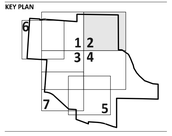
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



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A	30% Review	05/26/26
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D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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DRAWING INFORMATION

DATE:	JUNE 2026
PROJECT NUMBER:	25010482
SCALE:	1" = 200'
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

GRADING & DRAINAGE PLAN

SHEET NUMBER

C402

LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- LIMIT OF DISTURBANCE
- PROPOSED BUILDING
- PROPOSED GRAVEL AREA
- PROPOSED CONCRETE PAVING
- PROPOSED HEAVY DUTY ASPHALT PAVING
- PROPOSED POND
- EXISTING CURB
- PROPOSED CURB
- PROPOSED SWM POND
- EXISTING STORM DRAIN
- PROPOSED STORM DRAIN
- LIMITS OF DESIGNATED STREAM
- ASSUMED FLOODWAY BUFFER
- NONTIDAL WETLAND
- EXISTING EASEMENT
- EXISTING FLOODPLAIN

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LIMITS OF GRADING ARE TO BE MIN. 8' FROM LIMIT OF DISTURBANCE AT ALL LOCATIONS. REFER TO EROSION AND SEDIMENT CONTROL PLANS FOR MORE DETAIL.

SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE
COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
919 CONESTOGA ROAD BUILDING 3, SUITE 215
BRYN MAWR, PA 19010
610.527.3030

STAMP

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453

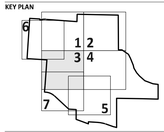
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	90% Review	05/08/26
B	90% Review	06/08/26
C	90% Review	06/23/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

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DRAWING INFORMATION

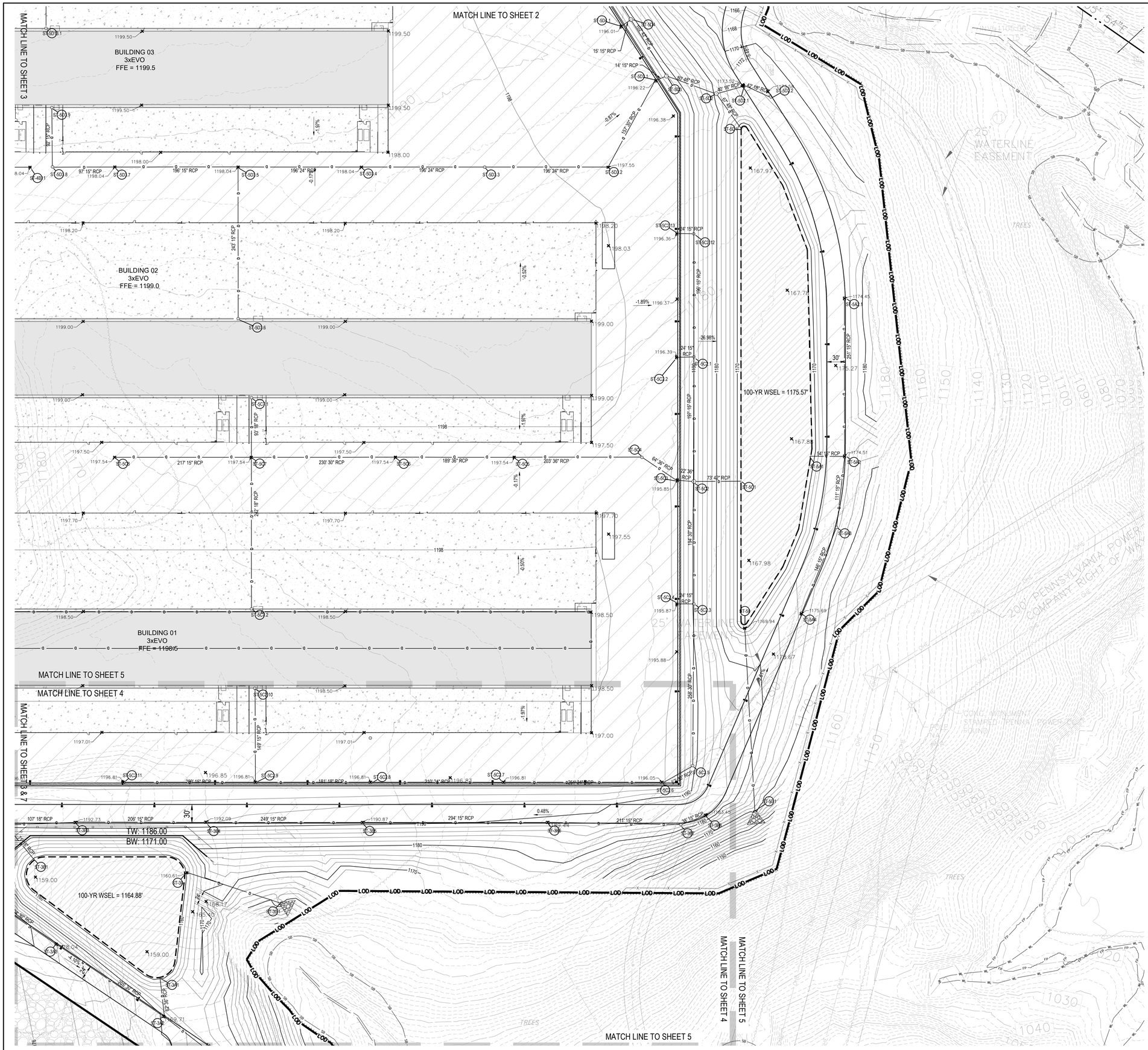
DATE:	JUNE 2026
PROJECT NUMBER:	25010482
SCALE:	1" = 200'
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

GRADING & DRAINAGE PLAN

SHEET NUMBER

C403



LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- LIMIT OF DISTURBANCE
- PROPOSED BUILDING
- PROPOSED GRAVEL AREA
- PROPOSED CONCRETE PAVING
- PROPOSED HEAVY DUTY ASPHALT PAVING
- PROPOSED POND
- EXISTING CURB
- PROPOSED CURB
- PROPOSED SWM POND
- EXISTING STORM DRAIN
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- EXISTING EASEMENT
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LIMITS OF GRADING ARE TO BE MIN. 8' FROM LIMIT OF DISTURBANCE AT ALL LOCATIONS. REFER TO EROSION AND SEDIMENT CONTROL PLANS FOR MORE DETAIL.

SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
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BRYN ATHYN, PA 19009
610.527.3030

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076453

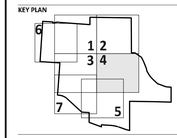
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	90% Review	05/08/26
B	90% Review	05/08/26
C	90% Review	06/23/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

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DRAWING INFORMATION

DATE:	JUNE 2026
PROJECT NUMBER:	25010482
SCALE:	1" = 200'
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

GRADING & DRAINAGE PLAN

SHEET NUMBER

C404

MATCH LINE TO SHEET 3

MATCH LINE TO SHEET 4

MATCH LINE TO SHEET 3 & 7

MATCH LINE TO SHEET 4 & 5

MATCH LINE TO SHEET 3 & 7

MATCH LINE TO SHEET 5 & 7

MATCH LINE TO SHEET 3

MATCH LINE TO SHEET 5

MATCH LINE TO SHEET 4

MATCH LINE TO SHEET 7

MATCH LINE TO SHEET 5

LW: 1186.00

BW: 1171.00

100-YR WSEL = 1164.88'

500'

600'

600'

450'

TREES

TREES

TREES

1180

1170

1160

1150

1140

1130

1120

1110

5/8" IRON PIN CAPPED "SURVEY TECH CORP" FOUND (HELD FOR LINE)

324.19'

N86° 44' 03"W

426.07'

5/8" IRON PIN CAPPED "SURVEY TECH CORP" FOUND (HELD)

EASTERN GAS TRANSMISSION GAS LINES

25' WATERLINE EASEMENT

200' PENNSYLVANIA POWER COMPANY RIGHT OF WAY

ASPHALT

SWPA PONDER PROPERTY TM#53-32-202.B0000 DBV 2198 PG- 25

SATCH BASIN T/G=1073.96' FILLED WITH DEBRIS

HOLE NA #NA

LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- LIMIT OF DISTURBANCE
- PROPOSED BUILDING
- PROPOSED GRAVEL AREA
- PROPOSED CONCRETE PAVING
- PROPOSED HEAVY DUTY ASPHALT PAVING
- PROPOSED POND
- EXISTING CURB
- PROPOSED CURB
- PROPOSED SWM POND
- EXISTING STORM DRAIN
- PROPOSED STORM DRAIN
- LIMITS OF DESIGNATED STREAM
- ASSUMED FLOODWAY BUFFER
- NONTIDAL WETLAND
- EXISTING EASEMENT
- EXISTING FLOODPLAIN

THE CONTRACTOR SHALL NOTIFY PA ONE CALL 1-800-242-1776, THREE (3) BUSINESS DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TICKET #20261202437B

LIMITS OF GRADING ARE TO BE MIN. 8' FROM LIMIT OF DISTURBANCE AT ALL LOCATIONS. REFER TO EROSION AND SEDIMENT CONTROL PLANS FOR MORE DETAIL.

SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

N

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
919 CONESTOGA ROAD BUILDING 3, SUITE 213
BRYN MAWR, PA 19010
610.527.3030

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076451

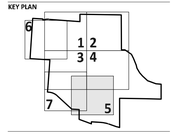
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



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switch
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702-468-5873

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DRAWING INFORMATION

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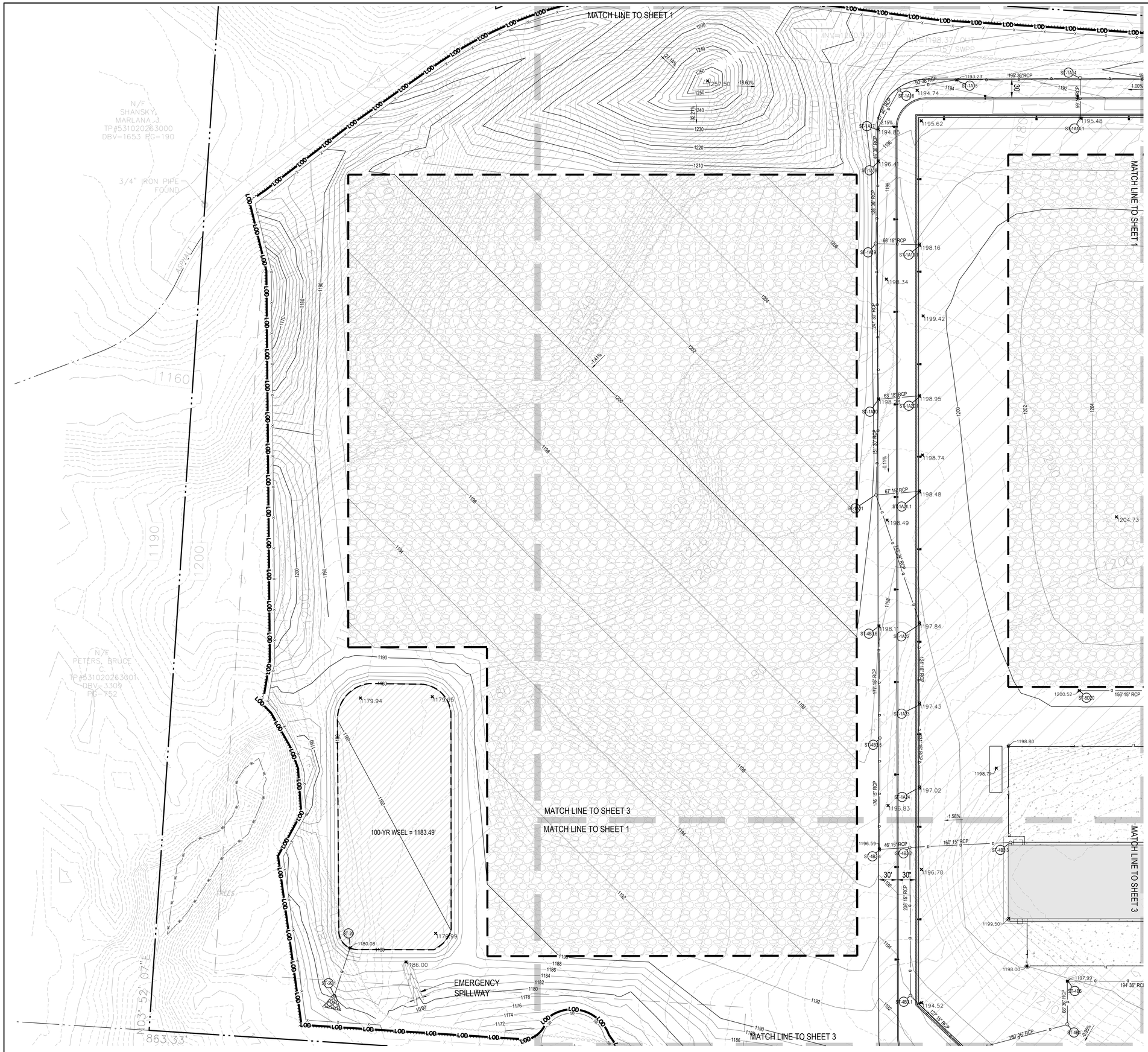
PROJECT NUMBER:	25010482
SCALE:	1" = 200'
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

GRADING & DRAINAGE PLAN

SHEET NUMBER

C405


MATCH LINE TO SHEET 1
MATCH LINE TO SHEET 3
MATCH LINE TO SHEET 1
MATCH LINE TO SHEET 3
MATCH LINE TO SHEET 3
100-YR WSEL = 1183.49'
EMERGENCY SPILLWAY
N/F SHANSKY, MARLANA J. TP#531020263000 DBV-1653 PG-190
N/F PETERS, BRUCE C. TP#531020263001 DBV-3309 PG-752
3/4" IRON PIPE FOUND
TREES
INV=1192.92' OUT
INV=1198.37' OUT
157 SWPP
ST-1A1
ST-1A2
ST-1A3
ST-1A4
ST-1A5
ST-1A6
ST-1A7
ST-1A8
ST-1A9
ST-1A10
ST-1A11
ST-1A12
ST-1A13
ST-1A14
ST-1A15
ST-1A16
ST-1A17
ST-1A18
ST-1A19
ST-1A20
ST-1A21
ST-1A22
ST-1A23
ST-1A24
ST-1A25
ST-1A26
ST-1A27
ST-1A28
ST-1A29
ST-1A30
ST-1A31
ST-1A32
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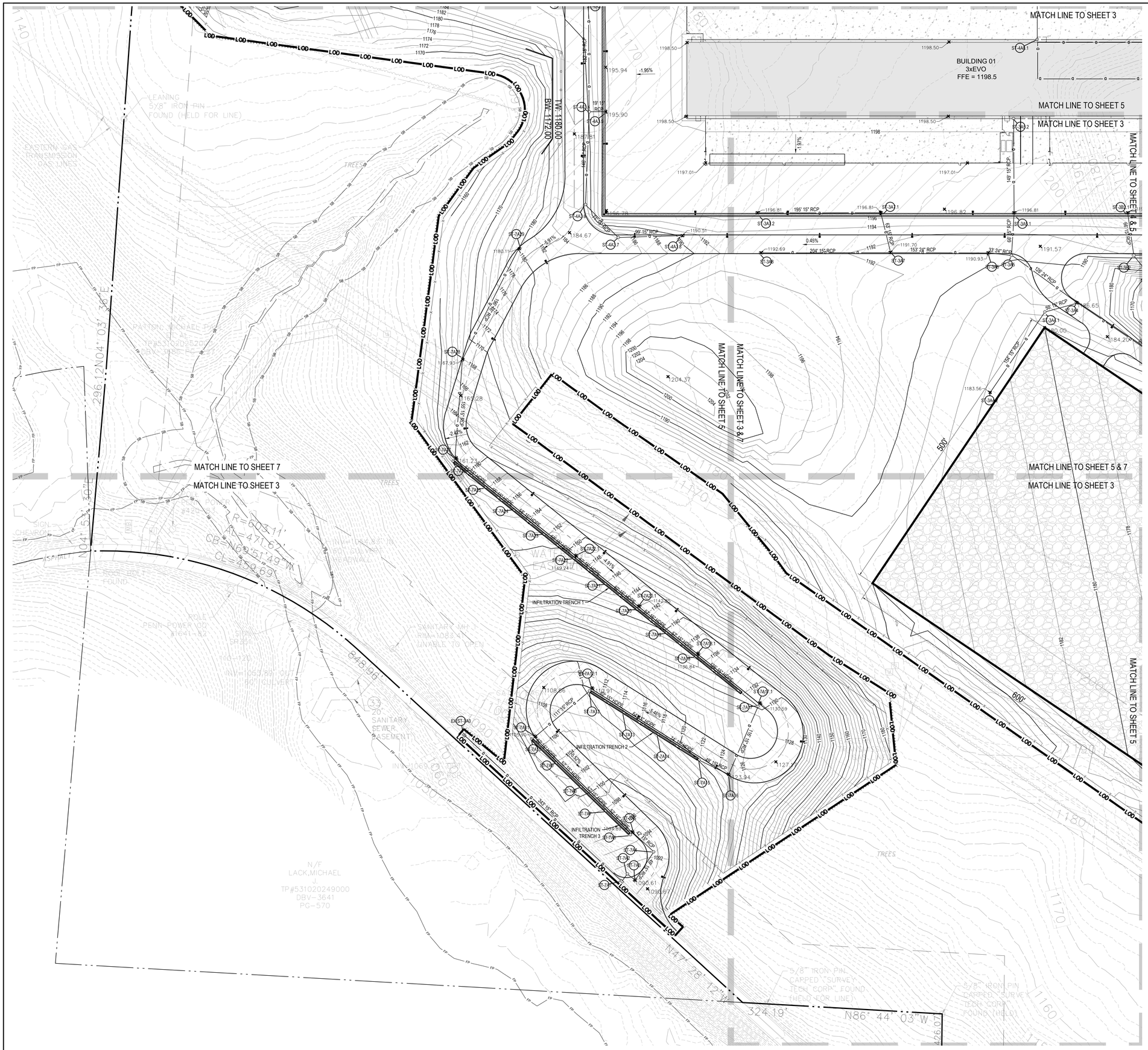
ST-1A40


MATCH LINE TO SHEET 3
MATCH LINE TO SHEET 5
MATCH LINE TO SHEET 3
MATCH LINE TO SHEET 3 & 7
MATCH LINE TO SHEET 5
MATCH LINE TO SHEET 7
MATCH LINE TO SHEET 3
MATCH LINE TO SHEET 5 & 7
MATCH LINE TO SHEET 3
MATCH LINE TO SHEET 5
BUILDING 01
3xEVO
FFE = 1198.5
INFILTRATION TRENCH 1
INFILTRATION TRENCH 2
INFILTRATION TRENCH 3
BW: 1172.00
TW: 1180.00
-1.95%
-1.97%
0.45%
2.44%
4.91%
5.48%
24.57%
-2.91%
-4.91%
195' 15" RCP
204' 15" RCP
153' 24" RCP
33' 24" RCP
45' 15" RCP
99' 18" RCP
45' 18" RCP
45' 24" RCP
45' 30" RCP
45' 36" RCP
45' 42" RCP
45' 48" RCP
45' 54" RCP
45' 60" RCP
45' 66" RCP
45' 72" RCP
45' 78" RCP
45' 84" RCP
45' 90" RCP
45'

LEGEND

- DRAINAGE AREA BOUNDARY
- CFL — COMPOST FILTER SOCK (CFL)
- CLEARWATER DIVERSION CHANNEL (CWDC)
- TEMPORARY DIVERSION CHANNEL (TDC)
- LOD — LIMIT OF DISTURBANCE (LOD)
- BbF, BaD — EXISTING SOIL BOUNDARY
- TRIPLE SILT FENCE
- ROCK CONSTRUCTION ENTRANCE
- CONSTRUCTION ACCESS ROAD
- CSST — COMPOST SOCK SEDIMENT TRAP (CSST)
- RRIP — RIPRAP OUTLET PROTECTION (RROP)
- IP — INLET PROTECTION (IP)

Summary of Soil Types

Soil Type	Hydric Rating	K-factor	Ksat	Hydrologic Soil Group	Drainage Class
Bethesda channery silt loam 0-8% slopes (BaB)	5	0.2	1.5	C	W
Bethesda channery silt loam 8-25% slopes (BaD)	5	0.2	1.5	C	W
Bethesda and Fairpoint channery silt loams 25-70% slopes (BbF)	0	0.2	1.5	C	W
Canfield silt loam 3-8% slopes (CdB)	0	0.37	5.5	C/D	MW
Cavode silt loam 3-8% slopes (CeB)	5	0.32	9.17	C/D	SP
Fairpoint channery silt loam 0-8% slopes (FaB)	5	0.24	0.1	D	W
Gilpin silt loam 8-15% slopes (GnC)	0	0.37	9.17	C	W
Gilpin silt loam 15-25% slopes (GnD)	0	0.37	9.17	C	W
Gilpin-Weikert channery silt loam 25-70% slopes (GsF)	0		92	C	W
Loudonville gravelly silt loam 15-25% slopes (LoD)	0	0.37	9.17	C	W
Ravenna silt loam 3-8% slopes (RaB)	5	0.37	5.5	D	SP
Urban land – Arents complex (Ub)	2				
Wharton silt loam 8-15% slopes (WhC)	0	0.32	9	C/D	MW

NOTES:

1. EROSION AND SEDIMENT CONTROL WILL BE STRICTLY ENFORCED.
2. TRACKING OF SEDIMENT ONTO PUBLIC ROADWAYS IS PROHIBITED. ANY TRACKED SEDIMENT SHALL BE REMOVED IMMEDIATELY.
3. STOCKPILES SHALL BE STABILIZED AND PROTECTED AT ALL TIMES AND SURROUNDED BY APPROPRIATE SEDIMENT CONTROLS.
4. INLET PROTECTION SHALL BE INSTALLED ON ALL EXISTING INLETS SUBJECT TO SEDIMENT-LADEN RUNOFF.
5. SEDIMENT BASINS SHALL BE CONSTRUCTED PRIOR TO CONTRIBUTING DRAINAGE AND MAINTAINED UNTIL FINAL STABILIZATION IS ACHIEVED.
6. DISTURBED AREAS SHALL BE GRADED TO DIRECT RUNOFF TO APPROVED SEDIMENT CONTROL BASINS AND PRACTICES.
7. THE CONTRACTOR SHALL PROPERLY DISPOSE OF ALL WASTE MATERIALS IN ACCORDANCE WITH APPROVED PLANS.
8. NO MATERIAL SHALL BE BURIED, DUMPED, OR DISCHARGED ON-SITE EXCEPT AS PERMITTED.
9. ALL DAMAGED OR INEFFECTIVE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REPAIRED AND REPLACED IMMEDIATELY.
10. TEMPORARY STABILIZATION SHALL BE APPLIED TO DISTURBED AREAS AS REQUIRED BY THE PERMIT.
11. WORK SHALL NOT PROCEED TO SUBSEQUENT PHASES WITHOUT REQUIRED APPROVALS WHERE APPLICABLE.
12. REFER TO EROSION AND SEDIMENT CONTROL NARRATIVE AND EROSION AND SEDIMENT CONTROL DETAILS.

SCALE: 1" = 200'

0 200 400 600 1000

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITHCELLVILLE, MD 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076453

GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

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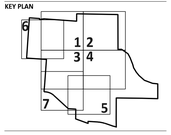
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



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OWNER

switch
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DRAWING INFORMATION

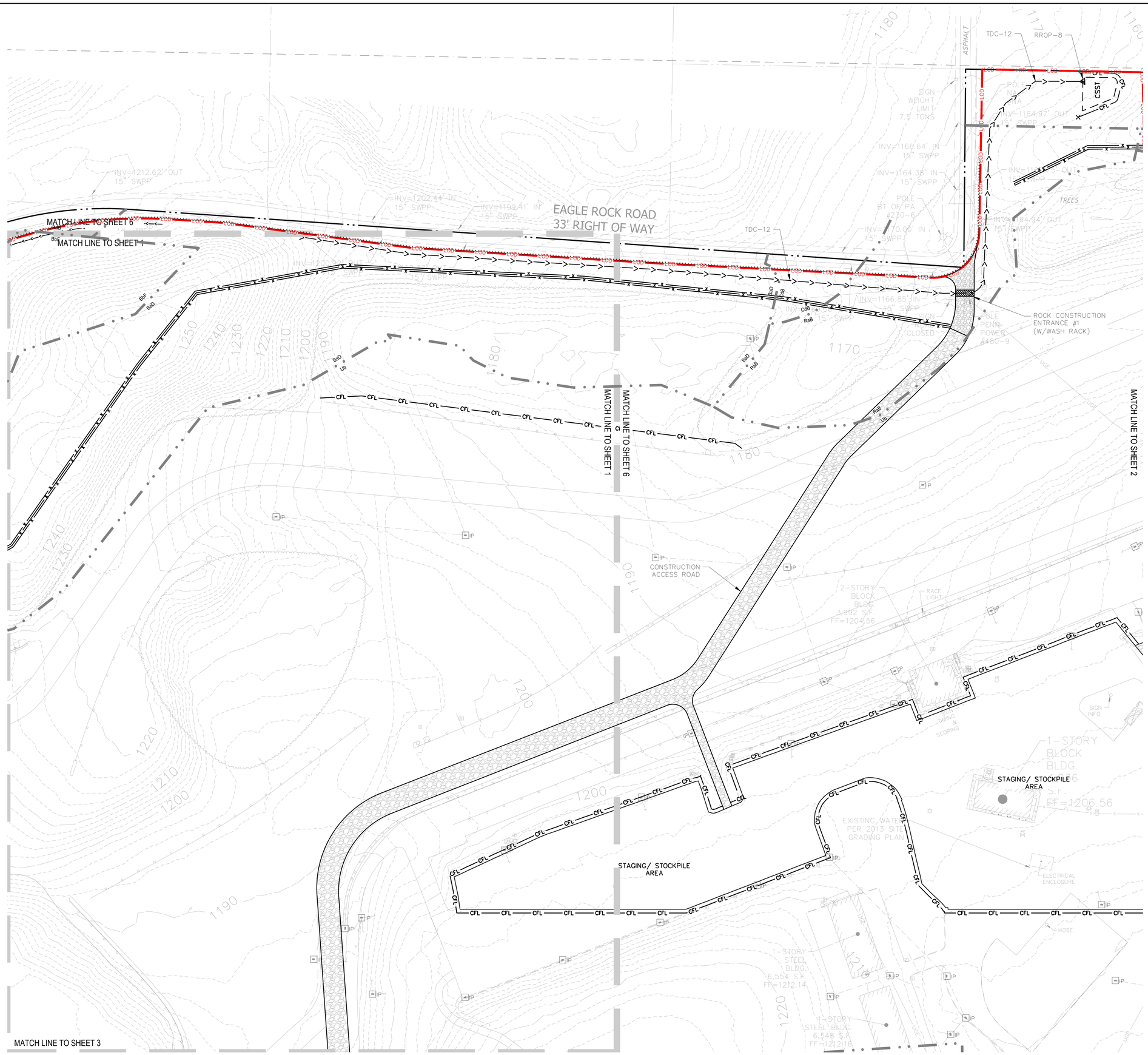
DATE:	JUNE 2026
PROJECT NUMBER:	25010482
	1" = 200'
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

STAGE 1
EROSION &
SEDIMENT CONTROL
OVERALL PLAN

SHEET NUMBER

C500



LEGEND

- CFL — CFL — COMPOST FILTER SOCK (CFL)
- CLEARWATER DIVERSION CHANNEL (CWDC)
- TEMPORARY DIVERSION CHANNEL (TDC)
- LOD — LOD — LIMIT OF DISTURBANCE (LOD)
- PROPOSED TREELINE
- BbF BaD — BbF BaD — EXISTING SOIL BOUNDARY
- TRIPLE SILT FENCE (SF)
- ROCK CONSTRUCTION ENTRANCE
- CONSTRUCTION ACCESS ROAD
- CSST — COMPOST SOCK SEDIMENT TRAP (CSST)
- RRIPRAP OUTLET PROTECTION (RROP)
- IP — INLET PROTECTION (IP)

SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

N

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITHCELLVILLE, MD 20721
301.430.2000

STAMP

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GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

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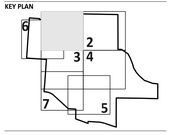
SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



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switch
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702-468-5873

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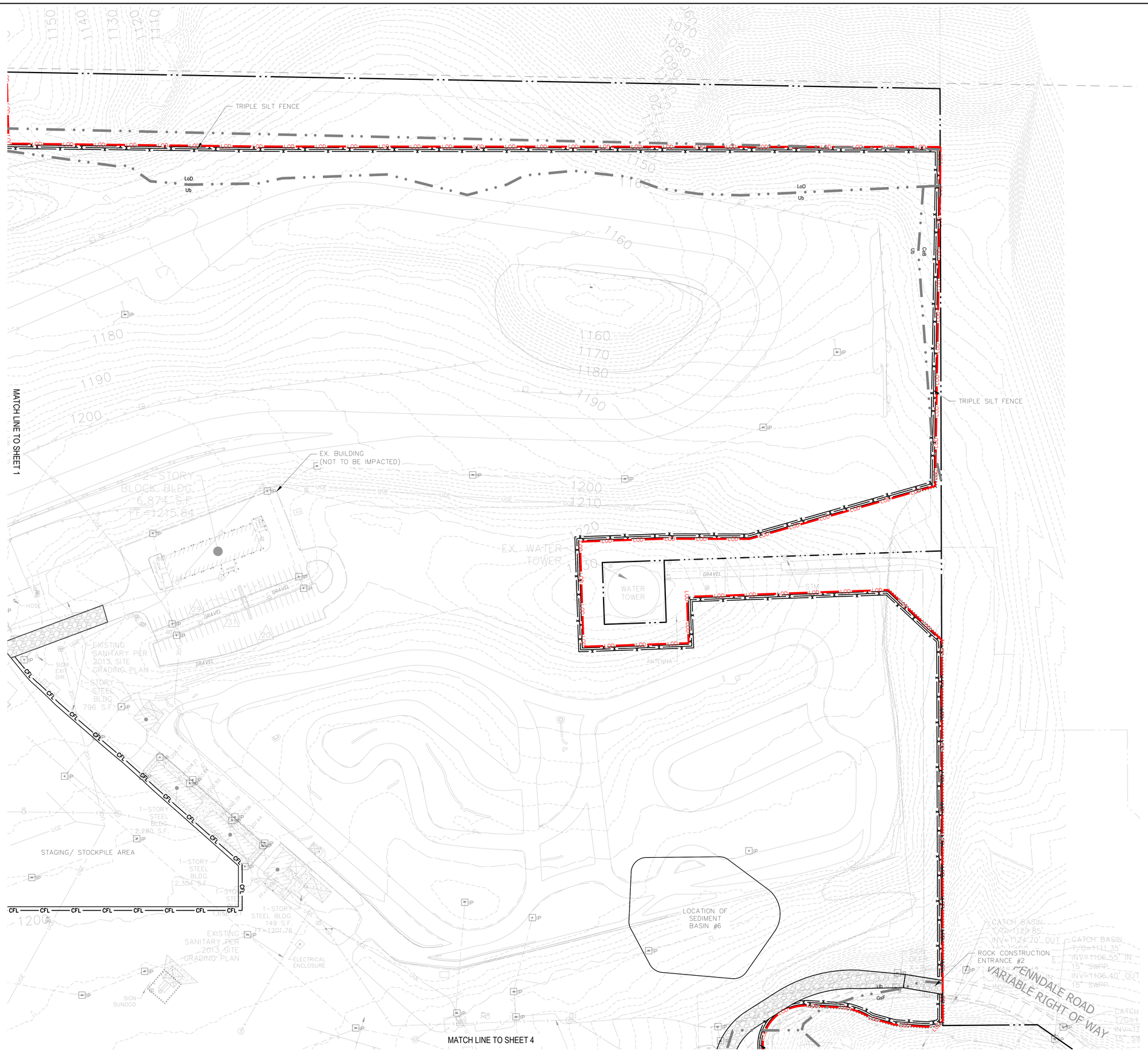
DATE:	JUNE 2026
PROJECT NUMBER:	25010482
	1" = 60'
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

STAGE 1 EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER

C501



LEGEND

- COMPOST FILTER SOCK (CFL)
- CLEARWATER DIVERSION CHANNEL (CWDC)
- TEMPORARY DIVERSION CHANNEL (TDC)
- LIMIT OF DISTURBANCE (LOD)
- PROPOSED TREELINE
- EXISTING SOIL BOUNDARY
- TRIPLE SILT FENCE (SF)
- ROCK CONSTRUCTION ENTRANCE
- CONSTRUCTION ACCESS ROAD
- COMPOST SOCK SEDIMENT TRAP (CSST)
- RIPRAP OUTLET PROTECTION (RROP)
- INLET PROTECTION (IP)

SCALE: 1" = 60'

0 60 120 180 300

N

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITHCELLVILLE, MD 20721
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GEORGE J. HARTMAN III
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No. PE076453

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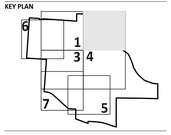
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



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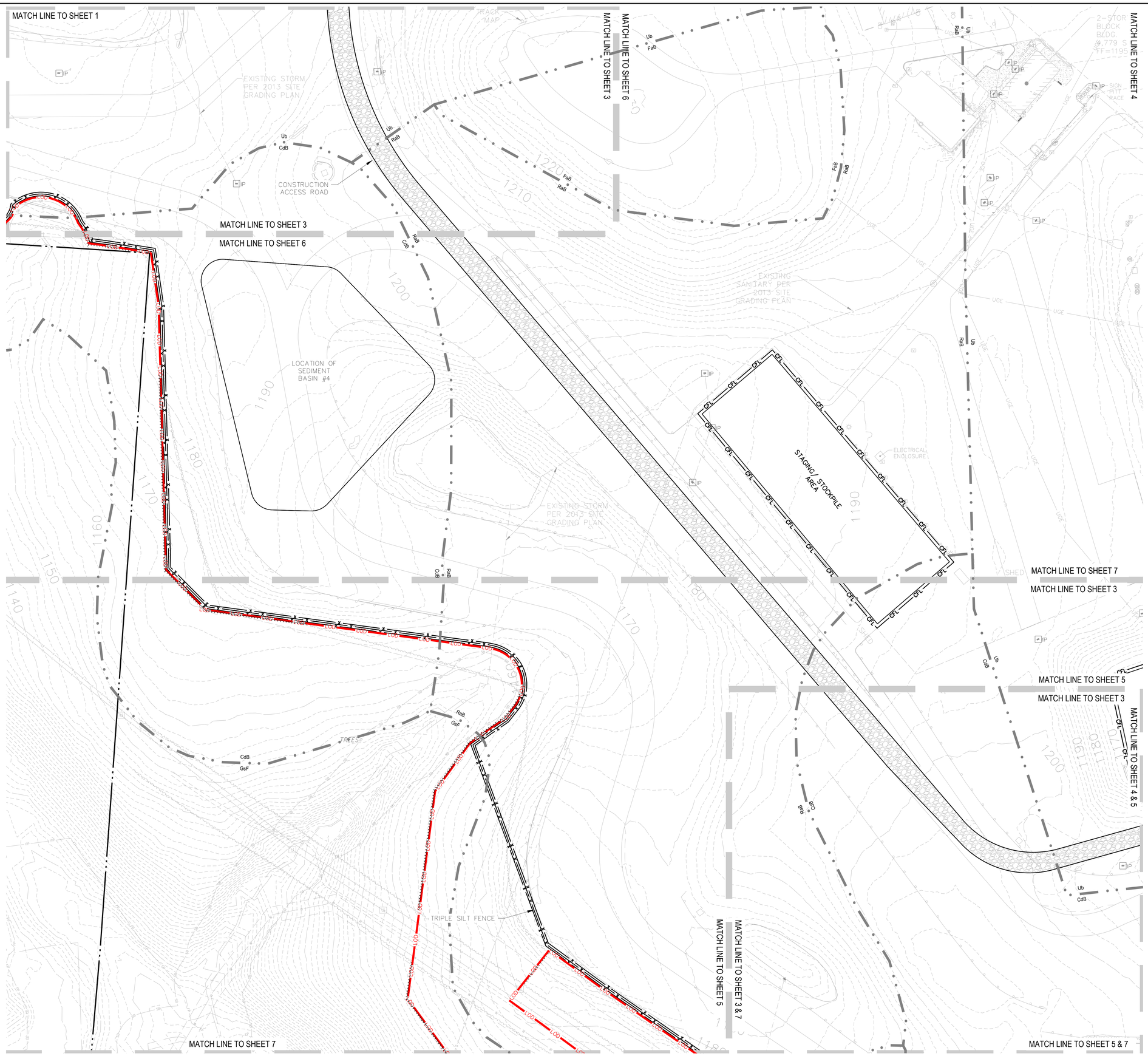
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

STAGE 1 EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER

C502



LEGEND

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- ROCK CONSTRUCTION ENTRANCE
- CONSTRUCTION ACCESS ROAD
- CSST — COMPOST SOCK SEDIMENT TRAP (CSST)
- RRIOP — RIPRAP OUTLET PROTECTION (RROP)
- IP — INLET PROTECTION (IP)

SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITHCELLVILLE, MD 20721
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GEORGE J. HARTMAN III
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PENNSYLVANIA LICENSE No. 076453

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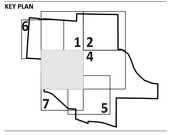

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QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

STAGE 1 EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER

C503

MATCH LINE TO SHEET 2

MATCH LINE TO SHEET 3

MATCH LINE TO SHEET 5

MATCH LINE TO SHEET 4

MATCH LINE TO SHEET 3 & 7

MATCH LINE TO SHEET 5

MATCH LINE TO SHEET 4

MATCH LINE TO SHEET 5

EXISTING WATER PER 2013 SITE GRADING PLAN

GUARD SHACK 125 S.F. FF=1181.09

SHED

1-STORY STEEL CARPORT 4,465 S.F.

HOSE

STAGING/ STOCKPILE AREA

STOCKPILE AREA

1-STORY STEEL BLDG 8,012 S.F. FF=1167.21

SIGN PIT RACE INTERNATIONAL (IN LANDSCAPING)

EXISTING SANITARY PER 2013 SITE GRADING PLAN

SIGN 30 MPH

LOCATION OF SEDIMENT BASIN #3

LOCATION OF SEDIMENT BASIN #2

CONSTRUCTION ACCESS ROAD

TRIPLE SILT FENCE

TREES

INV=1105.06 OUT 15" SMP

INV=1105.06 IN 15" SMP

CFL — COMPOST FILTER SOCK (CFL)

CWDC — CLEARWATER DIVERSION CHANNEL (CWDC)

TDC — TEMPORARY DIVERSION CHANNEL (TDC)

LOD — LIMIT OF DISTURBANCE (LOD)

PROPOSED TREELINE

BbF, BaD — EXISTING SOIL BOUNDARY

TRIPLE SILT FENCE (SF)

ROCK CONSTRUCTION ENTRANCE

CONSTRUCTION ACCESS ROAD

CSST — COMPOST SOCK SEDIMENT TRAP (CSST)

RROP — RIPRAP OUTLET PROTECTION (RROP)

IP — INLET PROTECTION (IP)

SCALE: 1" = 60'

0 60 120 180 300

N

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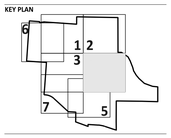
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
B	60% Review	06/08/26
C	90% Review	06/23/26
0	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

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DRAWING INFORMATION

DATE:	JUNE 2026
PROJECT NUMBER:	25010482
	1" = 60'
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

STAGE 1 EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER

C504

MATCH LINE TO SHEET 3

MATCH LINE TO SHEET 4

MATCH LINE TO SHEET 4 & 5

MATCH LINE TO SHEET 3 & 7

MATCH LINE TO SHEET 5 & 7

MATCH LINE TO SHEET 3

MATCH LINE TO SHEET 5

MATCH LINE TO SHEET 4

MATCH LINE TO SHEET 7

MATCH LINE TO SHEET 5

STOCKPILE AREA

CONSTRUCTION ACCESS ROAD

LOCATION OF SEDIMENT BASIN #3

TRIPLE SILT FENCE

TREES

ASPHALT

CATCH BASIN T/G=1073.96 FILLED WITH DEBRIS

25' WATERLINE EASEMENT

LEGEND

- CFL — COMPOST FILTER SOCK (CFL)
- CLEARWATER DIVERSION CHANNEL (CWDC)
- TEMPORARY DIVERSION CHANNEL (TDC)
- LOD — LIMIT OF DISTURBANCE (LOD)
- PROPOSED TREELINE
- EXISTING SOIL BOUNDARY
- TRIPLE SILT FENCE (SF)
- ROCK CONSTRUCTION ENTRANCE
- CONSTRUCTION ACCESS ROAD
- CSST — COMPOST SOCK SEDIMENT TRAP (CSST)
- RRIOP — RIPRAP OUTLET PROTECTION (RROP)
- IP — INLET PROTECTION (IP)

SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITHCELLVILLE, MD 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453

GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

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BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

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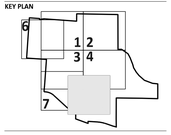

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	1" = 60'
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

STAGE 1 EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER

C505

LEGEND

- COMPOST FILTER SOCK (CFL)
- CLEARWATER DIVERSION CHANNEL (CWDC)
- TEMPORARY DIVERSION CHANNEL (TDC)
- LIMIT OF DISTURBANCE (LOD)
- PROPOSED TREELINE
- EXISTING SOIL BOUNDARY
- TRIPLE SILT FENCE (SF)
- ROCK CONSTRUCTION ENTRANCE
- CONSTRUCTION ACCESS ROAD
- COMPOST SOCK SEDIMENT TRAP (CSST)
- RIPRAP OUTLET PROTECTION (RROP)
- INLET PROTECTION (IP)

SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

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11721 WOODMORE RD, SUITE 200
MITCHELLVILLE, MD 20721
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GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

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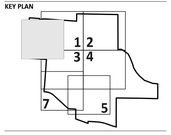

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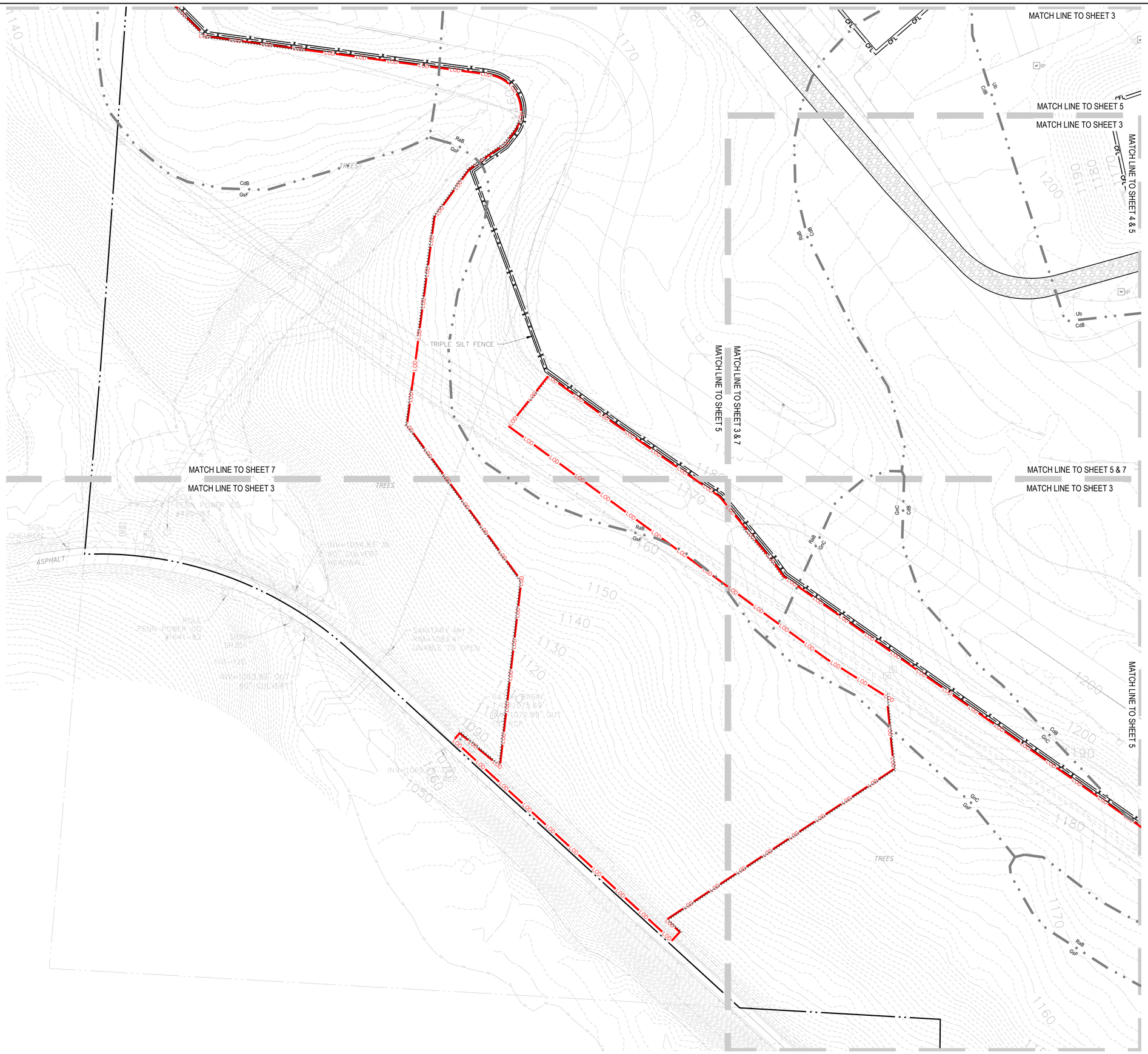
	1" = 60'
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

STAGE 1 EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER

C506



LEGEND

- COMPOST FILTER SOCK (CFL)
- CLEARWATER DIVERSION CHANNEL (CWDC)
- TEMPORARY DIVERSION CHANNEL (TDC)
- LIMIT OF DISTURBANCE (LOD)
- PROPOSED TREELINE
- EXISTING SOIL BOUNDARY
- TRIPLE SILT FENCE (SF)
- ROCK CONSTRUCTION ENTRANCE
- CONSTRUCTION ACCESS ROAD
- COMPOST SOCK SEDIMENT TRAP (CSST)
- RIPRAP OUTLET PROTECTION (RROP)
- INLET PROTECTION (IP)

SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

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MITCHELLVILLE, MD 20721
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PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

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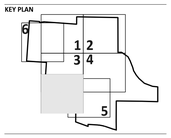

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DATE:	JUNE 2026
PROJECT NUMBER:	25010482
	1" = 60'
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

STAGE 1 EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER

C507

LEGEND

- DRAINAGE AREA BOUNDARY
- COMPOST FILTER SOCK (CFL)
- CLEARWATER DIVERSION CHANNEL (CWDC)
- TEMPORARY DIVERSION CHANNEL (TDC)
- LIMIT OF DISTURBANCE (LOD)
- EXISTING SOIL BOUNDARY
- TRIPLE SILT FENCE
- ROCK CONSTRUCTION ENTRANCE
- CONSTRUCTION ACCESS ROAD
- COMPOST SOCK SEDIMENT TRAP (CSST)
- RIPRAP OUTLET PROTECTION (RROP)
- INLET PROTECTION (IP)

Summary of Soil Types

Soil Type	Hydric Rating	K-factor	Ksat	Hydrologic Soil Group	Drainage Class
Bethesda channery silt loam 0-8% slopes (BaB)	5	0.2	1.5	C	W
Bethesda channery silt loam 8-25% slopes (BaD)	5	0.2	1.5	C	W
Bethesda and Fairpoint channery silt loams 25-70% slopes (BbF)	0	0.2	1.5	C	W
Canfield silt loam 3-8% slopes (CdB)	0	0.37	5.5	C/D	MW
Cavode silt loam 3-8% slopes (CeB)	5	0.32	9.17	C/D	SP
Fairpoint channery silt loam 0-8% slopes (FaB)	5	0.24	0.1	D	W
Gilpin silt loam 8-15% slopes (GnC)	0	0.37	9.17	C	W
Gilpin silt loam 15-25% slopes (GnD)	0	0.37	9.17	C	W
Gilpin-Weikert channery silt loam 25-70% slopes (GsF)	0		92	C	W
Loudonville gravelly silt loam 15-25% slopes (LoD)	0	0.37	9.17	C	W
Ravenna silt loam 3-8% slopes (RaB)	5	0.37	5.5	D	SP
Urban land – Arents complex (Ub)	2				
Wharton silt loam 8-15% slopes (WhC)	0	0.32	9	C/D	MW

NOTES:

1. EROSION AND SEDIMENT CONTROL WILL BE STRICTLY ENFORCED.
2. TRACKING OF SEDIMENT ONTO PUBLIC ROADWAYS IS PROHIBITED. ANY TRACKED SEDIMENT SHALL BE REMOVED IMMEDIATELY.
3. STOCKPILES SHALL BE STABILIZED AND PROTECTED AT ALL TIMES AND SURROUNDED BY APPROPRIATE SEDIMENT CONTROLS.
4. DISTURBED AREAS SHALL BE GRADED TO DIRECT RUNOFF TO APPROVED SEDIMENT CONTROL BASINS AND PRACTICES.
5. THE STORMDRAIN SYSTEM SHALL REMAIN INACTIVE. INLET CLOSED AND PROTECTED UNTIL CONTRIBUTING DRAINAGE ARE STABILIZED OR UNTIL APPROVAL IS GRANTED.
6. ALL DAMAGED OR INEFFECTIVE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REPAIRED AND REPLACED IMMEDIATELY.
7. TEMPORARY STABILIZATION SHALL BE APPLIED TO DISTURBED AREAS AS REQUIRED BY THE PERMIT.
8. WORK SHALL NOT PROCEED TO SUBSEQUENT PHASES WITHOUT REQUIRED APPROVALS WHERE APPLICABLE.
9. CONTRACTOR SHALL SEQUENCE WORK TO MINIMIZE DISTURBED AREAS AT ANY GIVEN TIME.
10. REFER TO EROSION AND SEDIMENT CONTROL NARRATIVE AND EROSION AND SEDIMENT CONTROL DETAILS.

SCALE : 1" = 200'

0 200 400 600 1000

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSBURG, KY 40731
502.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076453

GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

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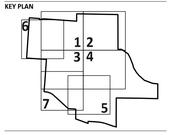
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



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switch
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702-468-5873

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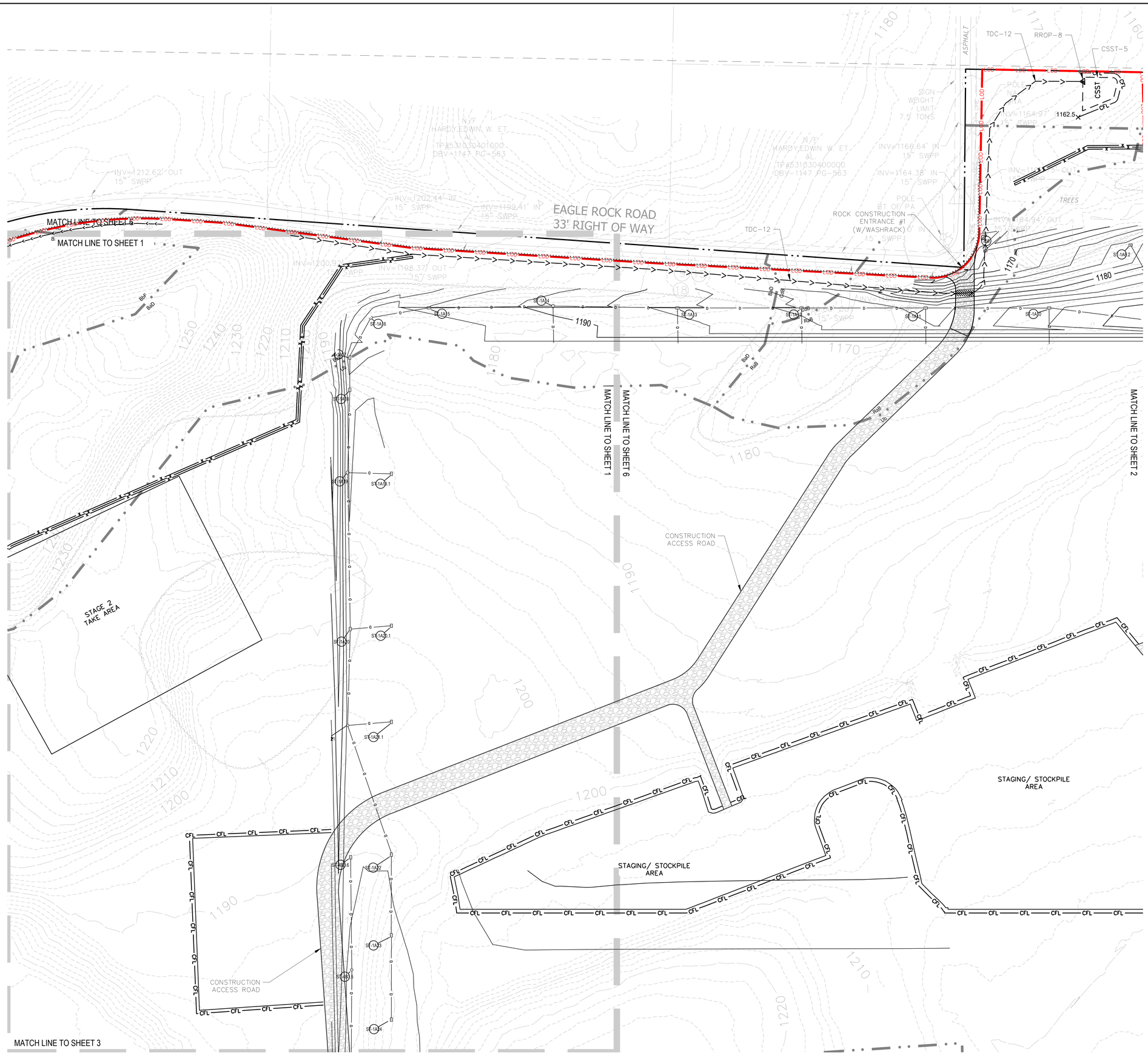
	1" = 200'
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

STAGE 2
EROSION & SEDIMENT CONTROL
OVERALL PLAN

SHEET NUMBER

C510



LEGEND

- CFL — COMPOST FILTER SOCK (CFL)
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- TEMPORARY DIVERSION CHANNEL (TDC)
- LOD — LIMIT OF DISTURBANCE (LOD)
- PROPOSED TREELINE
- EXISTING SOIL BOUNDARY
- TRIPLE SILT FENCE (SF)
- ROCK CONSTRUCTION ENTRANCE
- CONSTRUCTION ACCESS ROAD
- COMPOST SOCK SEDIMENT TRAP (CSST)
- RIPRAP OUTLET PROTECTION (RROP)
- INLET PROTECTION (IP)

SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITHCELLVILLE, MD 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076453

GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
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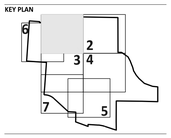
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



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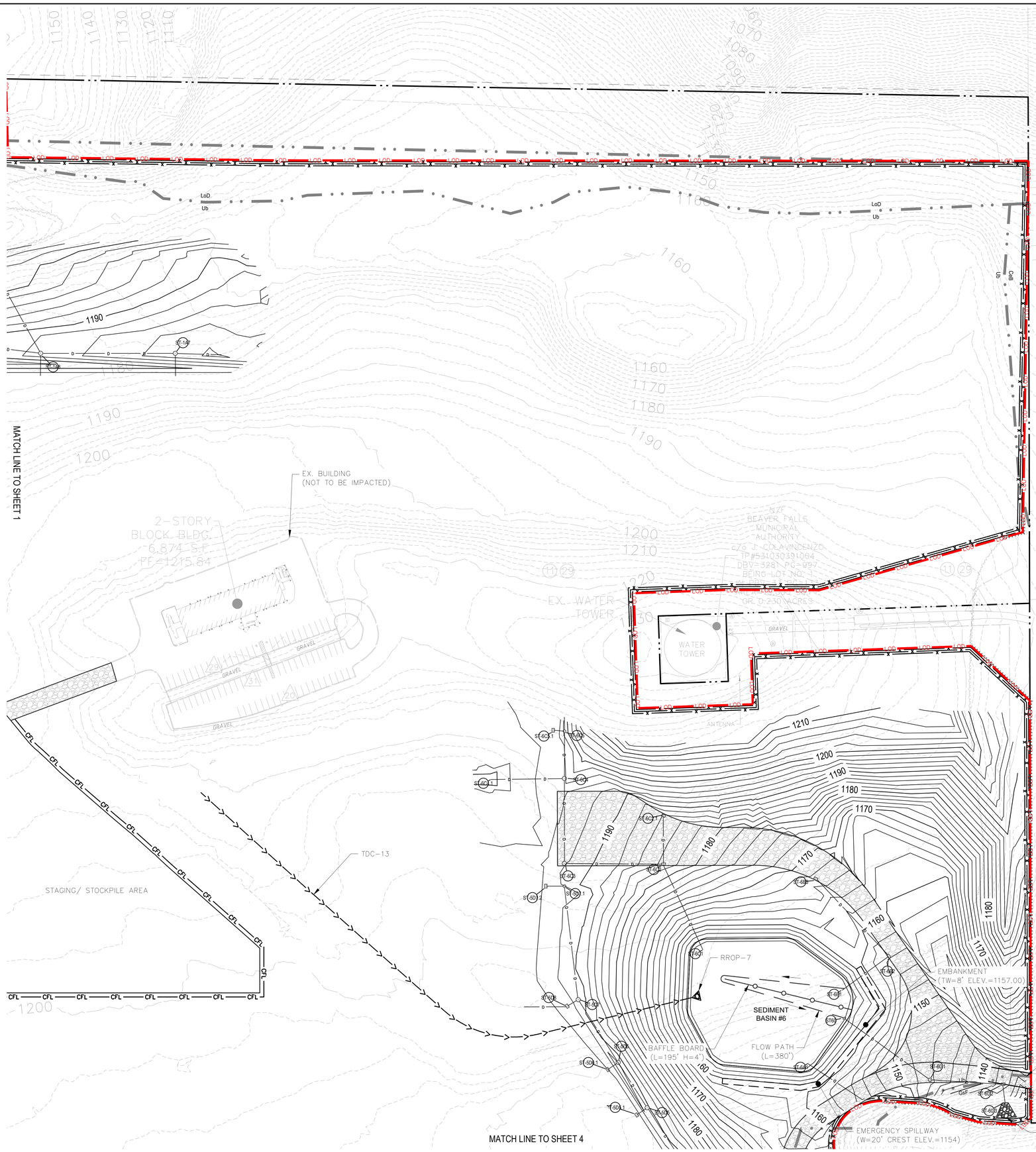
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

STAGE 2 EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER

C511



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PROJECT INFORMATION

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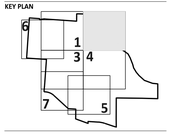
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



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DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

STAGE 2
EROSION &
SEDIMENT
CONTROL PLAN

SHEET NUMBER

C512

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

MATCH LINE TO SHEET 1

MATCH LINE TO SHEET 3

MATCH LINE TO SHEET 6

MATCH LINE TO SHEET 4

TDC-11

CONSTRUCTION ACCESS ROAD

RROP-6

BAFFLE BOARD (L=255' H=2')

RROP-5

TDC-6

TDC-7

SEDIMENT BASIN #4

FLOW PATH (L=575')

STAGING/ STOCKPILE AREA

TDC-5

N/F
RS COMMERCIAL DEVELOPMENT, LLC
ATTN: JARETT W. SVIHRA
TP#53102025300D
DBV-3505 PG-349

OUTFALL #4
(ROP: R-6, L=29', W=39.5')

EMBANKMENT
(TW=8' ELEV.=1181.00)

EMERGENCY SPILLWAY
(W=26' CREST ELEV.=1178.00)

STAGING/ STOCKPILE AREA

TREES

CONSTRUCTION ACCESS ROAD

TDC-5

MATCH LINE TO SHEET 7

MATCH LINE TO SHEET 3

MATCH LINE TO SHEET 5

MATCH LINE TO SHEET 4 & 5

MATCH LINE TO SHEET 3 & 7

MATCH LINE TO SHEET 5 & 7

LEGEND

- CFL — COMPOST FILTER SOCK (CFL)
- CLEARWATER DIVERSION CHANNEL (CWDC)
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- LOD — LIMIT OF DISTURBANCE (LOD)
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- CONSTRUCTION ACCESS ROAD
- COMPOST SOCK SEDIMENT TRAP (CSST)
- RIPRAP OUTLET PROTECTION (RROP)
- INLET PROTECTION (IP)

SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

N

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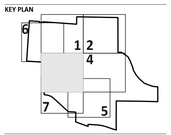

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QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

STAGE 2 EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER

C513

MATCH LINE TO SHEET 2

MATCH LINE TO SHEET 3

MATCH LINE TO SHEET 5

MATCH LINE TO SHEET 4

MATCH LINE TO SHEET 3 & 4

MATCH LINE TO SHEET 4

MATCH LINE TO SHEET 5

MATCH LINE TO SHEET 5

STAGING/ STOCKPILE AREA

STAGING/ STOCKPILE AREA

CONSTRUCTION ACCESS ROAD

SEDIMENT BASIN #5

SEDIMENT BASIN #3

BAFFLE BOARD (L=85' H=3')

BAFFLE BOARD (L=175' H=4')

FLOW PATH (L=290')

FLOW PATH (L=353')

EMBANKMENT (TW=8' ELEV.=1176.00)

EMERGENCY SPILLWAY (W=20' CREST ELEV.=1172)

EMBANKMENT (TW=8' ELEV.=1167.00)

EMERGENCY SPILLWAY (W=24' CREST ELEV.=1164.50)

OUTFALL #5 (ROP: R-6, L=20.8', W=29.8')

OUTFALL #3 (ROP: R-6, L=20', W=29')

RROP-4

RROP-3

CSST

CSST-3

TDC-4

TDC-3

25' WATERLINE EASEMENT

TREES

LEGEND

CFL — CFL	COMPOST FILTER SOCK (CFL)
	CLEARWATER DIVERSION CHANNEL (CWDC)
	TEMPORARY DIVERSION CHANNEL (TDC)
LOD — LOD	LIMIT OF DISTURBANCE (LOD)
	PROPOSED TREELINE
BbE BaD	EXISTING SOIL BOUNDARY
	TRIPLE SILT FENCE (SF)
	ROCK CONSTRUCTION ENTRANCE
	CONSTRUCTION ACCESS ROAD
CSST	COMPOST SOCK SEDIMENT TRAP (CSST)
RROP	RIPRAP OUTLET PROTECTION (RROP)
IP-1	INLET PROTECTION (IP)

SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITHCELLVILLE, MD 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076453

GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

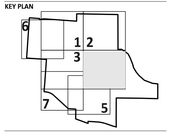
PROJECT INFORMATION

SWITCH PIT 01-03 EARLY WORKS

PRELIMINARY LAND DEVELOPMENT PLANS

BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
B	60% Review	06/08/26
C	90% Review	06/23/26
0	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

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DRAWING INFORMATION

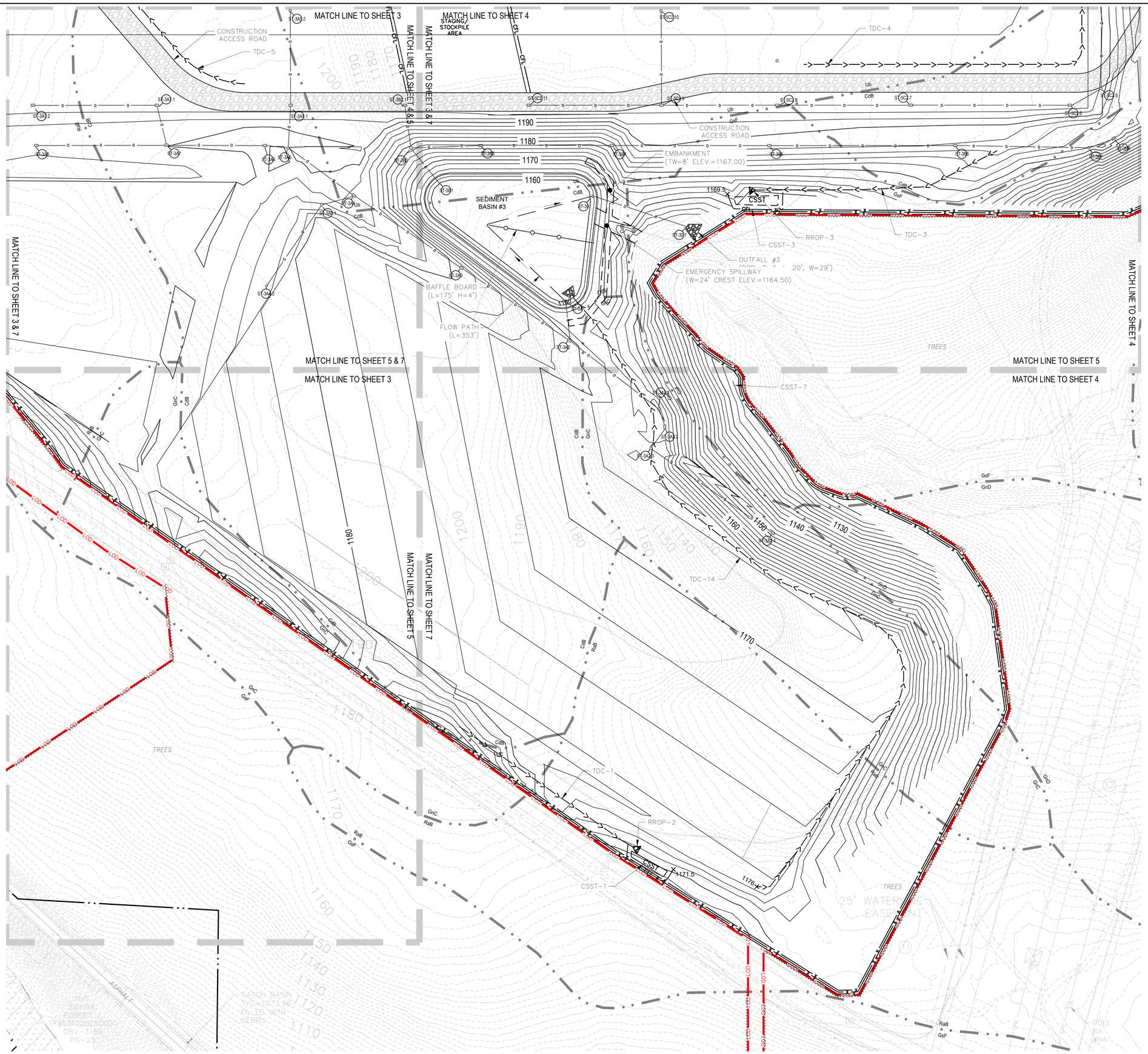
DATE:	JUNE 2026
PROJECT NUMBER:	25010482
	1" = 60'
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

STAGE 2 EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER

C514



LEGEND

CFL	COMPOST FILTER SOCK (CFL)
	CLEARWATER DIVERSION CHANNEL (CWDC)
	TEMPORARY DIVERSION CHANNEL (TDC)
LOD	LIMIT OF DISTURBANCE (LOD)
	PROPOSED TREELINE
BbF BaD	EXISTING SOIL BOUNDARY
	TRIPLE SILT FENCE (SF)
	ROCK CONSTRUCTION ENTRANCE
	CONSTRUCTION ACCESS ROAD
CSST	COMPOST SOCK SEDIMENT TRAP (CSST)
RROP	RIPRAP OUTLET PROTECTION (RROP)
	INLET PROTECTION (IP)

SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

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11721 WOODMORE RD, SUITE 200
MITCHELLVILLE, MD 20721
301.430.2000

STAMP

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PENNSYLVANIA LICENSE No. 076453

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BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

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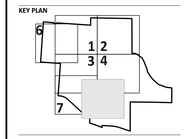

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PROJECT NUMBER:	25010482
	1" = 60"
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

STAGE 2 EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER

C515

MATCH LINE TO SHEET 1

MATCH LINE TO SHEET 3

MATCH LINE TO SHEET 1

MATCH LINE TO SHEET 3

MATCH LINE TO SHEET 3

LEGEND

- CFL — CFL — COMPOST FILTER SOCK (CFL)
- CLEARWATER DIVERSION CHANNEL (CWDC)
- TEMPORARY DIVERSION CHANNEL (TDC)
- LOD — LOD — LIMIT OF DISTURBANCE (LOD)
- PROPOSED TREELINE
- BsF BaD — EXISTING SOIL BOUNDARY
- TRIPLE SILT FENCE (SF)
- ROCK CONSTRUCTION ENTRANCE
- CONSTRUCTION ACCESS ROAD
- CSST — COMPOST SOCK SEDIMENT TRAP (CSST)
- RRIOP — RIPRAP OUTLET PROTECTION (RROP)
- IP-1 — INLET PROTECTION (IP)

N/F SHANSKY, MARLANA J. TP#531020263000 DBV-1653 PG-190

N/F PETERS, BRUCE C. TP#531020263001 DBV-3309 PG-752

CWDC-2

RROP-9

TDC-11

TDC-10

TDC-9

TDC-2

CSST-4

CSST-2

STAGE 2 TAKE AREA

CONSTRUCTION ACCESS ROAD

CONSTRUCTION ACCESS ROAD

ASPHALT

TREES

TREES

SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

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866.850.4200 www.atwell.com
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ENGINEER
No. PE076453

GEORGE J. HARTMAN III
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PENNSYLVANIA LICENSE
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PROJECT INFORMATION

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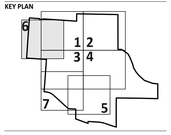
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



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OWNER

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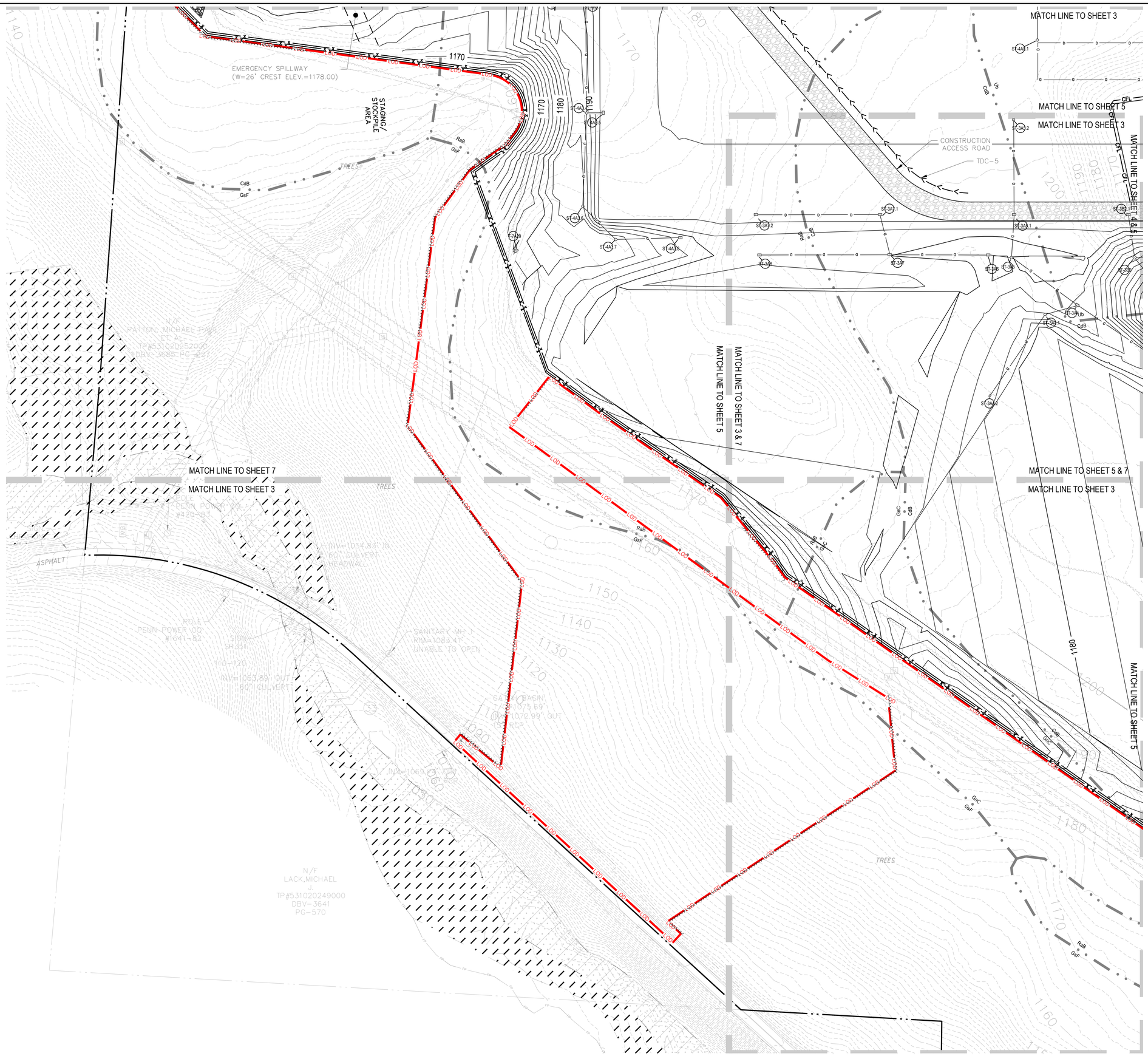
DATE:	JUNE 2026
PROJECT NUMBER:	25010482
	1" = 60'
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

STAGE 2 EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER

C516



LEGEND

- COMPOST FILTER SOCK (CFL)
- CLEARWATER DIVERSION CHANNEL (CWDC)
- TEMPORARY DIVERSION CHANNEL (TDC)
- LIMIT OF DISTURBANCE (LOD)
- PROPOSED TREELINE
- EXISTING SOIL BOUNDARY
- TRIPLE SILT FENCE (SF)
- ROCK CONSTRUCTION ENTRANCE
- CONSTRUCTION ACCESS ROAD
- COMPOST SOCK SEDIMENT TRAP (CSST)
- RIPRAP OUTLET PROTECTION (RROP)
- INLET PROTECTION (IP)

SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

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ENGINEER
No. PE076453

GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

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SWITCH PIT 01-03
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BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

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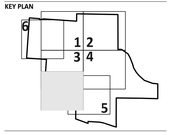

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DRAWING INFORMATION

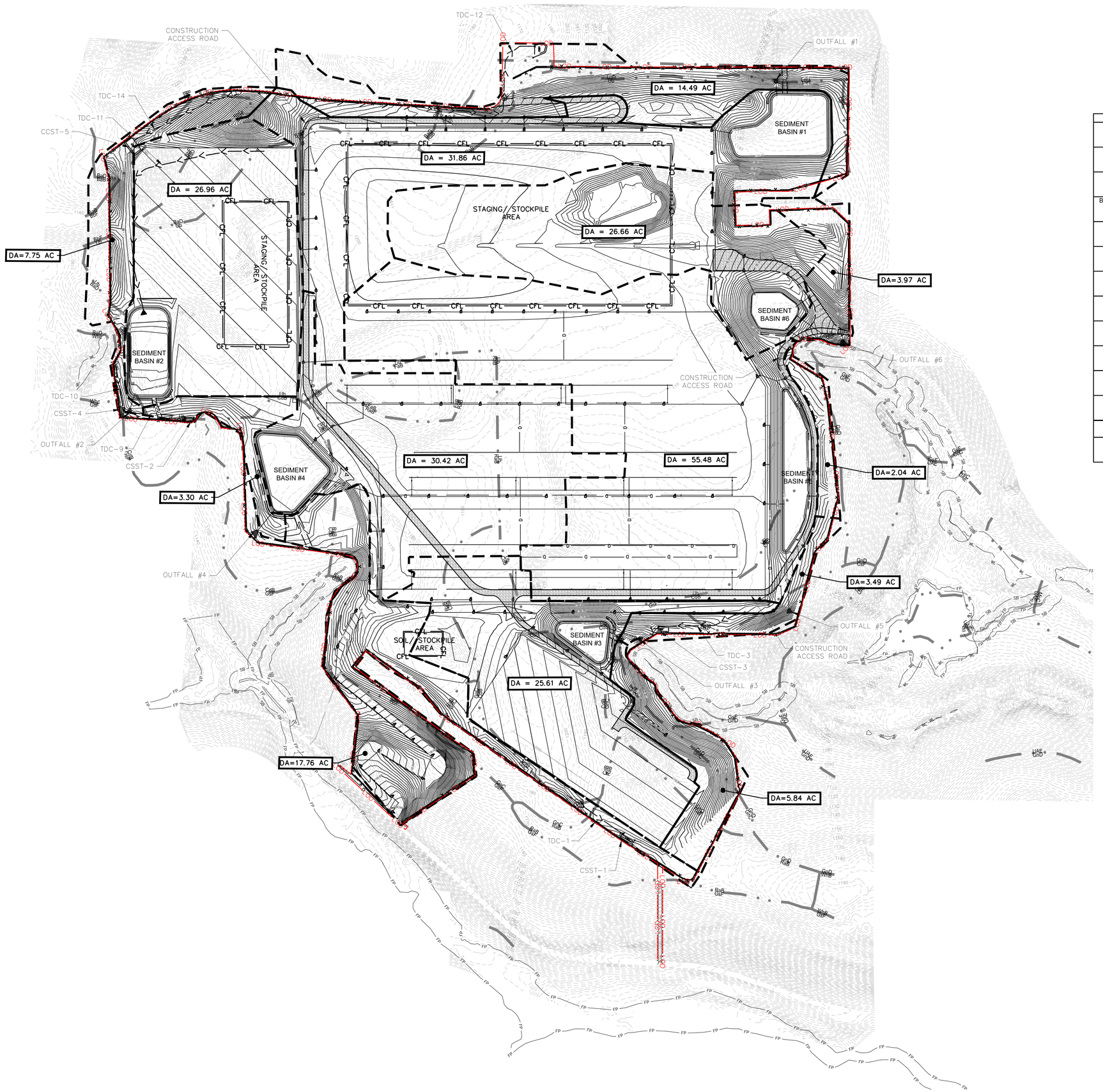
DATE:	JUNE 2026
PROJECT NUMBER:	25010482
	1" = 60'
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

STAGE 2 EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER

C517



LEGEND

- CFL — COMPOST FILTER SOCK (CFL)
- CLEARWATER DIVERSION CHANNEL (CWDC)
- TEMPORARY DIVERSION CHANNEL (TDC)
- LOD — LIMIT OF DISTURBANCE (LOD)
- LIMIT OF GRADING
- TRIPLE SILT FENCE
- STORM DRAIN
- ROCK CONSTRUCTION ENTRANCE
- CONSTRUCTION ACCESS ROAD
- CSST — COMPOST SOCK SEDIMENT TRAP (CSST)
- RROP — RIPRAP OUTLET PROTECTION (RROP)
- INLET PROTECTION (IP)

Summary of Soil Types

Soil Type	Hydric Rating	K-factor	Ksat	Hydrologic Soil Group	Drainage Class
Bethesda channery silt loam 0-8% slopes (BaB)	5	0.2	1.5	C	W
Bethesda channery silt loam 8-25% slopes (BaD)	5	0.2	1.5	C	W
Bethesda and Fairpoint channery silt loams 25-70% slopes (BbF)	0	0.2	1.5	C	W
Canfield silt loam 3-8% slopes (CdB)	0	0.37	5.5	C/D	MW
Cavode silt loam 3-8% slopes (CeB)	5	0.32	9.17	C/D	SP
Fairpoint channery silt loam 0-8% slopes (FaB)	5	0.24	0.1	D	W
Gilpin silt loam 8-15% slopes (GnC)	0	0.37	9.17	C	W
Gilpin silt loam 15-25% slopes (GnD)	0	0.37	9.17	C	W
Gilpin-Weikert channery silt loam 25-70% slopes (GsF)	0		92	C	W
Loudonville gravelly silt loam 15-25% slopes (LoD)	0	0.37	9.17	C	W
Ravenna silt loam 3-8% slopes (RaB)	5	0.37	5.5	D	SP
Urban land – Arents complex (Ub)	2				
Wharton silt loam 8-15% slopes (WhC)	0	0.32	9	C/D	MW

NOTES:

1. EROSION AND SEDIMENT CONTROL WILL BE STRICTLY ENFORCED.
2. TRACKING OF SEDIMENT ONTO PUBLIC ROADWAYS IS PROHIBITED. ANY TRACKED SEDIMENT SHALL BE REMOVED IMMEDIATELY.
3. STOCKPILES SHALL BE STABILIZED AND PROTECTED AT ALL TIMES AND SURROUNDED BY APPROPRIATE SEDIMENT CONTROLS.
4. CONSTRUCT SEDIMENT BASINS 1 & 2 AS SHOWN ON THE PLANS PRIOR TO ANY DISTURBANCES WITHIN THEIR TRIBUTARY AREAS.
5. DISTURBED AREAS SHALL BE GRADED TO DIRECT RUNOFF TO APPROVED SEDIMENT CONTROL BASINS AND PRACTICES.
6. ALL DAMAGED OR INEFFECTIVE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REPAIRED AND REPLACED IMMEDIATELY.
7. SEQUENCE REMAINING MASS GRADING OPERATIONS TO MINIMIZE EXPOSED SOIL AND MAINTAIN COMPLIANCE WITH EROSION AND SEDIMENT CONTROL REQUIREMENTS.
8. TEMPORARY STABILIZATION SHALL BE APPLIED TO DISTURBED AREAS AS REQUIRED BY THE PERMIT.
9. REFER TO STORMWATER AND UTILITY PLANS FOR INSTALLATION OF STRUCTURES (MANHOLES, UTILITY PIPES, TRENCH DRAINS, ETC.). PROTECT STRUCTURES FROM DAMAGE AS REQUIRED.
10. WORK SHALL NOT PROCEED TO SUBSEQUENT PHASES WITHOUT REQUIRED APPROVALS WHERE APPLICABLE.
11. REFER TO EROSION AND SEDIMENT CONTROL NARRATIVE AND EROSION AND SEDIMENT CONTROL DETAILS.

SCALE: 1" = 200'

0 200 400 600 1000

N

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSBURG, KY 40731
501.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076453

GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

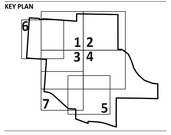
DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03 EARLY WORKS PRELIMINARY LAND DEVELOPMENT PLANS

BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



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OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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DRAWING INFORMATION

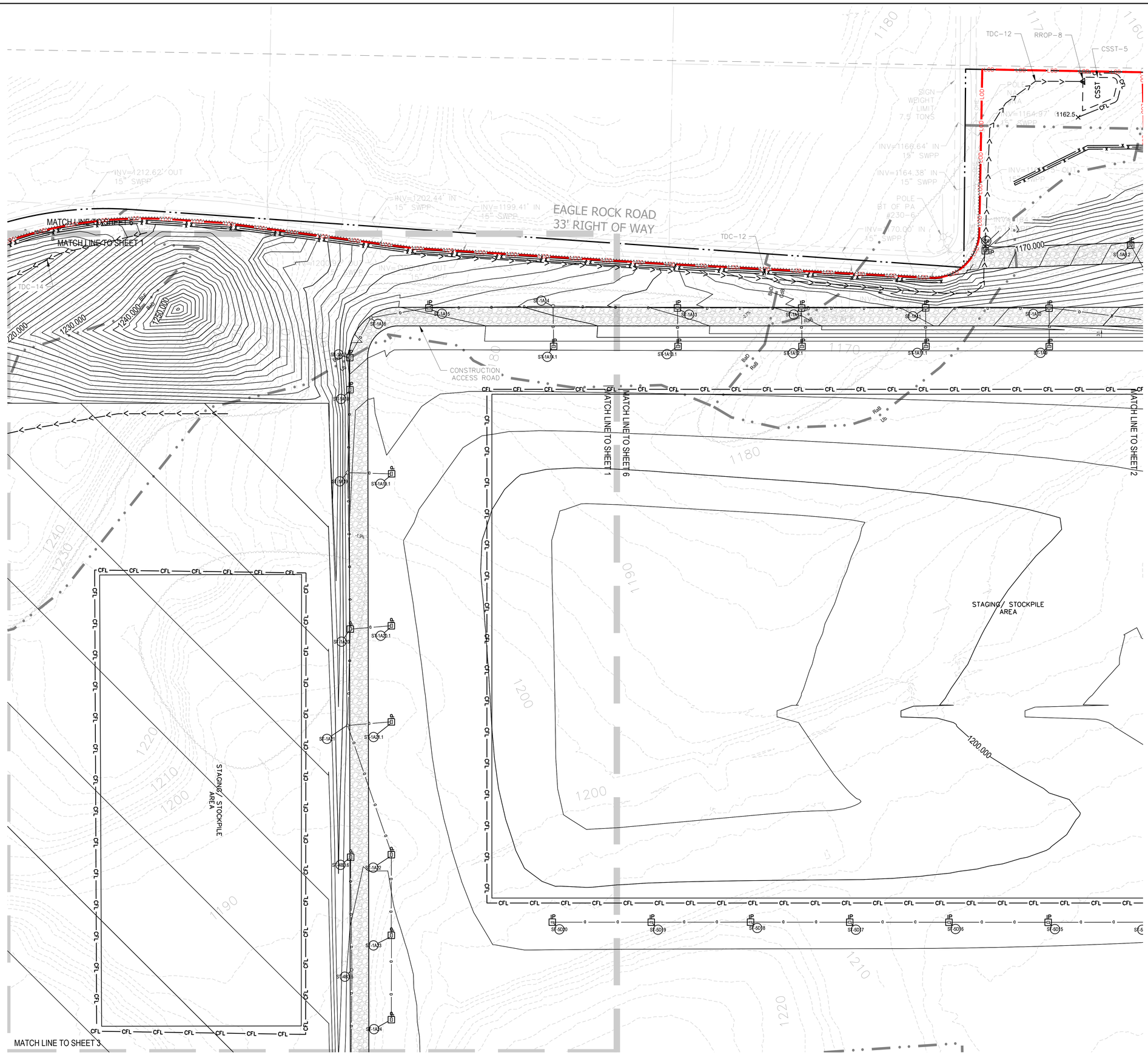
DATE:	JUNE 2026
PROJECT NUMBER:	25010482
	1" = 200'
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

STAGE 3 EROSION & SEDIMENT CONTROL OVERALL PLAN

SHEET NUMBER

C520



LEGEND

- CFL — COMPOST FILTER SOCK (CFL)
- CLEARWATER DIVERSION CHANNEL (CWDC)
- TEMPORARY DIVERSION CHANNEL (TDC)
- LOD — LIMIT OF DISTURBANCE (LOD)
- PROPOSED TREELINE
- BsF BaD — EXISTING SOIL BOUNDARY
- TRIPLE SILT FENCE (SF)
- ROCK CONSTRUCTION ENTRANCE
- CONSTRUCTION ACCESS ROAD
- CSST — COMPOST SOCK SEDIMENT TRAP (CSST)
- RRIP — RIPRAP OUTLET PROTECTION (RROP)
- IP — INLET PROTECTION (IP)

SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
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PENNSYLVANIA LICENSE
No. 076453

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PROJECT INFORMATION

SWITCH PIT 01-03
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BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

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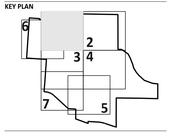

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DRAWING INFORMATION

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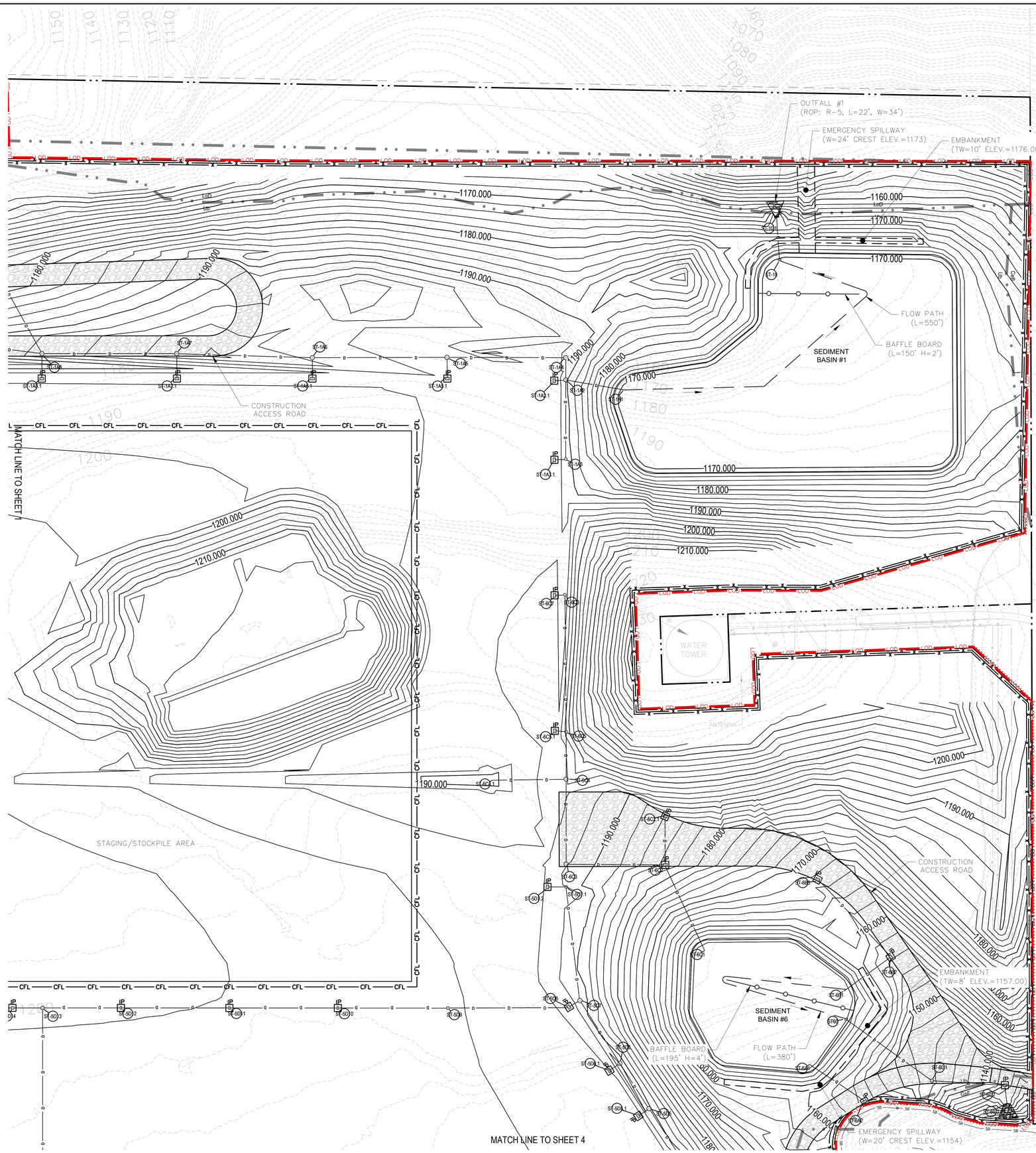
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

STAGE 3 EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER

C521



LEGEND

- COMPOST FILTER SOCK (CFL)
- CLEARWATER DIVERSION CHANNEL (CWDC)
- TEMPORARY DIVERSION CHANNEL (TDC)
- LIMIT OF DISTURBANCE (LOD)
- PROPOSED TREELINE
- EXISTING SOIL BOUNDARY
- TRIPLE SILT FENCE (SF)
- ROCK CONSTRUCTION ENTRANCE
- CONSTRUCTION ACCESS ROAD
- COMPOST SOCK SEDIMENT TRAP (CSST)
- RIPRAP OUTLET PROTECTION (RROP)
- INLET PROTECTION (IP)

SCALE: 1" = 60'

0 60 120 180 300

N

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

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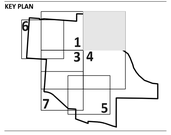
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



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DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

STAGE 3 EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER

C522

MATCH LINE TO SHEET 1

MATCH LINE TO SHEET 3

MATCH LINE TO SHEET 6

CONSTRUCTION ACCESS ROAD

BAFFLE BOARD (L=255' H=2')

SEDIMENT BASIN #4

FLOW PATH (L=575')

EMBANKMENT (TW=8' ELEV.=1181.00)

OUTFALL #4 (ROP: R-6, L=29', W=39.5')

EMERGENCY SPILLWAY (W=26' CREST ELEV.=1178.00)

SOIL STOCKPILE AREA

MATCH LINE TO SHEET 5

MATCH LINE TO SHEET 3 & 7

MATCH LINE TO SHEET 7

MATCH LINE TO SHEET 5 & 7

MATCH LINE TO SHEET 4

MATCH LINE TO SHEET 8.5

LEGEND

- CFL — COMPOST FILTER SOCK (CFL)
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SCALE: 1" = 60'

0 60 120 180 300

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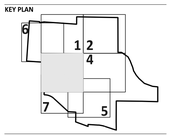
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
B	60% Review	06/05/26
C	90% Review	06/23/26
0	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

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DRAWING INFORMATION

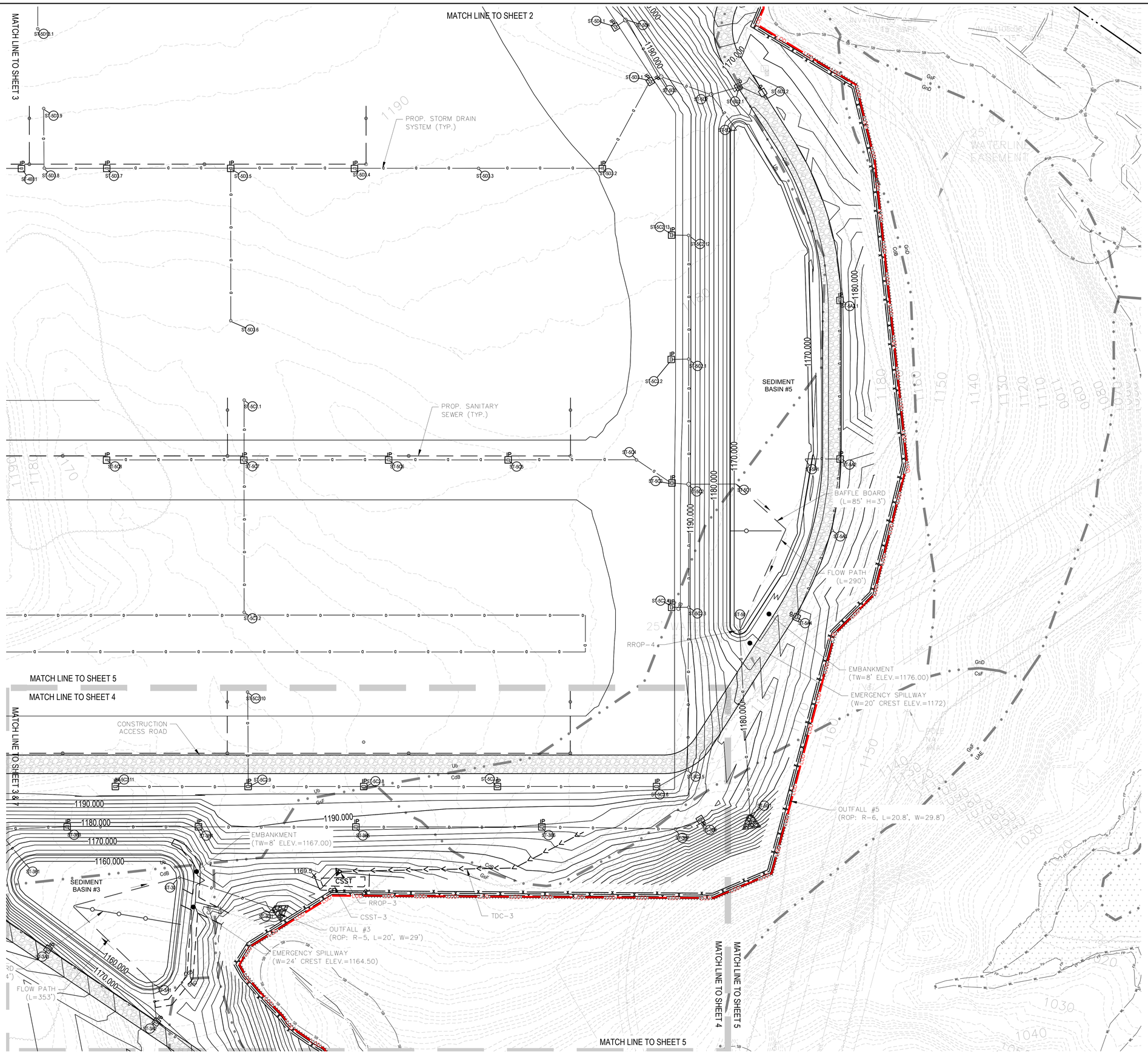
DATE:	JUNE 2026
PROJECT NUMBER:	25010482
	1" = 60"
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

STAGE 3 EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER

C523



LEGEND

- COMPOST FILTER SOCK (CFL)
- CLEARWATER DIVERSION CHANNEL (CWDC)
- TEMPORARY DIVERSION CHANNEL (TDC)
- LIMIT OF DISTURBANCE (LOD)
- PROPOSED TREELINE
- EXISTING SOIL BOUNDARY
- TRIPLE SILT FENCE (SF)
- ROCK CONSTRUCTION ENTRANCE
- CONSTRUCTION ACCESS ROAD
- COMPOST SOCK SEDIMENT TRAP (CSST)
- RIPRAP OUTLET PROTECTION (RROP)
- INLET PROTECTION (IP)

SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLVILLE, MD 20721
301.430.2000

STAMP

GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN

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QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

STAGE 3 EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER

C524

MATCH LINE TO SHEET 3

MATCH LINE TO SHEET 4

MATCH LINE TO SHEET 3 & 7

MATCH LINE TO SHEET 4 & 5

CONSTRUCTION ACCESS ROAD

EMBANKMENT (TW=8' ELEV.=1167.00)

SEDIMENT BASIN #3

BAFFLE BOARD (L=175' H=4')

FLOW PATH (L=353')

OUTFALL #3 (ROP: R-5, L=20', W=29')

EMERGENCY SPILLWAY (W=24' CREST ELEV.=1164.50)

CSST-3

RROP-3

TDC-3

CSST-7

TDC-1

RROP-2

CSST-1

CSST

STOCKPILE

MATCH LINE TO SHEET 5 & 7

MATCH LINE TO SHEET 5

MATCH LINE TO SHEET 7

CATCH BASIN TYG=1073.96' FILLED WITH DEBRIS

25' WATERLINE EASEMENT

POLE #NA

LEGEND

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SCALE: 1" = 60'

0 60 120 180 300

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301.430.2000

STAMP

REGISTERED PROFESSIONAL ENGINEER
GEORGE J. HARTMAN III
No. PE076453

GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

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QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

STAGE 3 EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER

C525

LEGEND

- CFL — COMPOST FILTER SOCK (CFL)
- CLEARWATER DIVERSION CHANNEL (CWDC)
- TEMPORARY DIVERSION CHANNEL (TDC)
- LOD — LIMIT OF DISTURBANCE (LOD)
- PROPOSED TREELINE
- BbF / BaD — EXISTING SOIL BOUNDARY
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- CONSTRUCTION ACCESS ROAD
- CSST — COMPOST SOCK SEDIMENT TRAP (CSST)
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SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE
COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
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STAMP

COMMONWEALTH OF PENNSYLVANIA
REGISTERED
PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453

GEORGE J. HARTMAN III
PROFESSIONAL
ENGINEER
PENNSYLVANIA LICENSE
No. 076453

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PROJECT INFORMATION

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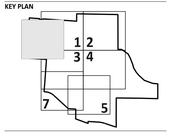
KEY PLAN



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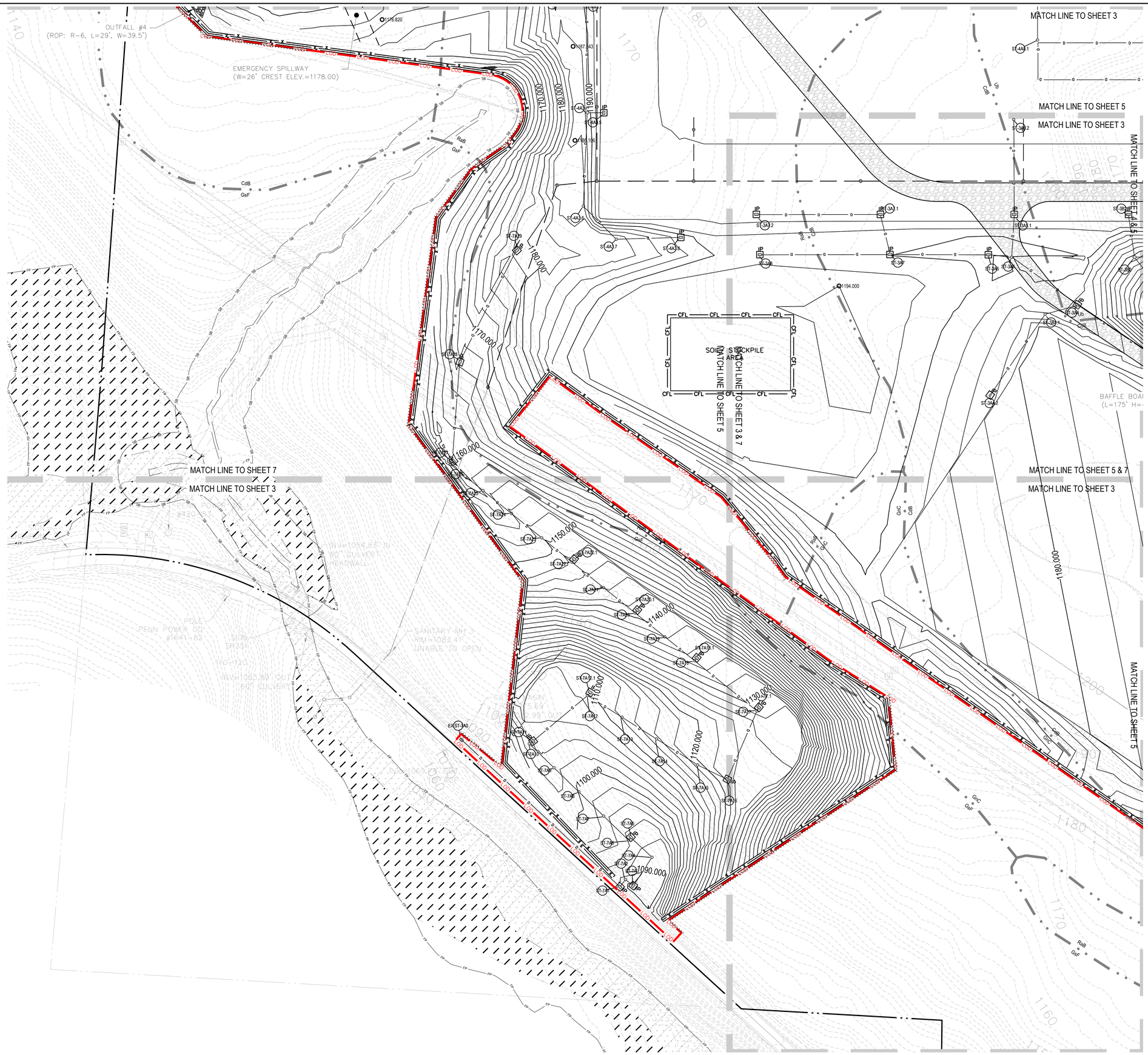
SHEET TITLE

STAGE 3 EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER

C526



LEGEND

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N

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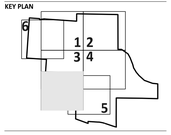
KEY PLAN



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QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

STAGE 3
EROSION &
SEDIMENT
CONTROL PLAN

SHEET NUMBER

C527

EROSION AND SEDIMENT CONTROL GENERAL NOTES

1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS 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, IF IT DEEMS IT NECESSARY.
2. 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, THE PENNSYLVANIA MUNICIPAL OFFICIALS, 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.
3. 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.
4. 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 LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
5. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
6. CLEARING, GRUBBING AND 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.
7. 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 BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
8. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAPS(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 SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.
9. 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.
10. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
11. 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.
12. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM PA-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.
13. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
14. VEHICLES AND EQUIPMENT MAY ENTER / EXIT DIRECTLY FROM / TO PENDALE ROAD OR EAGLE ROCK ROAD.
15. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
16. 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.
17. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED OF IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
18. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
19. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES – 6 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.
20. 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.
21. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
22. 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.
23. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
24. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
25. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
26. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED 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.
27. 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.
28. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% 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.
29. E&S BMPS SHALL 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.
30. 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.
31. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER 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 ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
32. 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.
33. 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.
34. 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.
35. 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.
36. 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 A MANNER DESCRIBED IN THIS PLAN UNTIL SUCH RESTORATION IS COMPLETE.
37. 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.
38. 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.
39. SEDIMENT BASINS SHALL BE PROTECTED FROM UNAUTHORIZED ACTS BY THIRD PARTIES.
40. 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.
41. 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.
42. 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.
43. FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN MAXIMUM 6" LAYERED LIFTS AT 95% DENSITY.

EROSION AND SEDIMENT CONTROL GENERAL NOTES CONTINUED

1. A PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (PA D.E.P.) NOTICE OF INTENT (NOI) GENERAL PERMIT FOR CONSTRUCTION ACTIVITY IS REQUIRED FOR ALL CONSTRUCTION ACTIVITY IN PENNSYLVANIA WITH A PLANNED TOTAL DISTURBANCE OF 1 ACRE OR MORE.
2. AS MANDATED BY THE NOTICE OF INTENT (NOI) GENERAL PERMIT ISSUED BY THE PA D.E.P., AN INSPECTION MUST BE PERFORMED ONSITE OF ALL SEDIMENT CONTROLS ON A WEEKLY BASIS AND AFTER EVERY RAINFALL EVENT. ALL SELF INSPECTIONS MUST BE MAINTAINED ALONG WITH ALL APPLICABLE GOVERNING AGENCY INSPECTION REPORTS IN A LOG BOOK, TO BE KEPT ONSITE AT ALL TIMES.
3. UPON TEMPORARY CESSATION OF AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY WHERE A CESSATION OF EARTH DISTURBANCE ACTIVITIES WILL EXCEED 4 DAYS, THE SITE SHALL BE IMMEDIATELY SEEDED, MULCHED, OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND SEDIMENT POLLUTION AS DESCRIBED IN EARTH DISTURBANCE ACTIVITIES. FOR AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY TO BE CONSIDERED TEMPORARILY STABILIZED, THE DISTURBED AREAS SHALL BE CONVERTED WITH ONE OF THE FOLLOWING:
   (i) A MINIMUM UNIFORM COVERAGE OF MULCH AND SEED, WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION AND SEDIMENTATION.
   (ii) AN ACCEPTABLE BMP WHICH TEMPORARILY MINIMIZES ACCELERATED EROSION AND SEDIMENTATION.
4. CERTIFICATION BY OWNER OR DEVELOPER THAT (1) ANY CLEARING, GRADING, CONSTRUCTION OR DEVELOPMENT, OR ALL OF THESE WILL BE DONE PURSUANT TO THIS PLAN; (2) THAT RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE CERTIFICATION OF TRAINING AT THE DEPARTMENT APPROVED TRAINING PROGRAM I.E., GREEN CARD CERTIFICATION FOR THE CONTROL OF SEDIMENT AND EROSION, BEFORE BEGINNING THE PROJECT (CERTIFICATION MAY BE WAIVED BY THE APPROVAL AUTHORITY ON ANY PROJECT INVOLVING FOUR OR FEWER RESIDENTIAL UNITS AND AS APPLICABLE PER COUNTY); AND (3) THE DEVELOPER WILL POST AT LEAST ONE COPY OF A RED LINE AS-BUILT DRAWING OF EACH FACILITY REQUIRING A STATE POND PERMIT.
5. OWNER/DEVELOPER OR REPRESENTATIVE MUST CONTACT THE APPROPRIATE ENFORCEMENT AUTHORITY OR OWNER/DEVELOPER OR REPRESENTATIVE MUST CONTACT THE APPROPRIATE ENFORCEMENT AUTHORITY OR ITS AGENT AT THE FOLLOWING STAGES OF THE PROJECT:
   5.1. PRIOR TO THE START OF EARTH DISTURBANCE
   5.2. UPON COMPLETION OF THE INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING;
   5.3. PRIOR TO THE START OF ANOTHER PHASE OF CONSTRUCTION OR OPENING OF ANOTHER GRADING UNIT;
   5.4. PRIOR TO THE REMOVAL OF THE SEDIMENT CONTROL PRACTICES;
6. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE THAT STABILIZED AREAS CONTINUALLY MEET THE REQUIREMENTS OF THE "PENNSYLVANIA EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL" TECHNICAL GUIDE 363-2124-008, MARCH 2012.
7. APPROVED PLANS REMAIN VALID FOR 2 YEARS FROM THE DATE OF APPROVAL, EXCEPT SURFACE MINES AND LANDFILL PLANS, WHICH REMAIN VALID FOR 5 YEARS FROM THE DATE OF APPROVAL UNLESS SPECIFICALLY EXTENDED OR RENEWED BY THE APPROVAL AUTHORITY.
8. ALL AREAS NOT COVERED BY PAVEMENT SHALL BE SEEDED USING PERMANENT SEED MIXTURE SHOWN ON THIS PLAN (USE SOD WHERE INDICATED.)
9. SEEDING: (PERMANENT)
   9.1. SHALL BE CONDUCTED BETWEEN MARCH 1 TO MAY 15 OR AUGUST 15 TO OCTOBER 31
   9.2. SEED BED PREPARATION: APPLY 5 LBS. OF 10-20-20 FERTILIZER PER 1,000 SQUARE FT; HARROW OR DISC INTO SOIL TO A DEPTH OF 3 TO 4 INCHES; APPLY PULVERIZED GROUND LIMESTONE AT 90 LBS. PER 1,000 SQUARE FT.
   9.3. SEEDING: IN INFILTRATION BASIN AREAS SEE THE PLANTING PLAN. IN OTHER AREAS, APPLY 0.93 LBS. PER 1,000 SQUARE FT. OF WOLFPACK TURF-TYPE TALL FESCUE ON A MOIST SEED BED WITH SUITABLE EQUIPMENT -- MINIMUM COVERAGE INCH, 14 INCH.
   9.4. MULCHING: IMMEDIATELY AFTER SEEDING, UNIFORMLY MULCH ENTIRE AREA WITH UNWEATHERED SMALL GRAIN STRAW AT A RATE OF 2 TONS PER ACRES. MULCH TO BE ANCHORED WITH MULCH ANCHORING TOOL ON THE CONTOUR OR OTHER TIE-DOWN METHODS (ON DITCHES ONLY). WHEN USING A MULCH ANCHORING TOOL, INCREASE THE APPLICATION RATE TO 2.5 TONS PER ACRE.
10. UPON COMPLETION OF STOCKPILING TOPSOIL, SEED AND MULCH THE STOCKPILE USING TEMPORARY SEED MIXTURE SPECIFICATIONS IF TO REMAIN IN PLACE LONGER THAN SEVEN (7) DAYS.
11. TEMPORARY STABILIZATION:
   11.1. SEED BED PREPARATION: APPLY 100 LBS. OF 10-10-20 PER 1,000 SQUARE FT.
   11.2. PROVIDE TEMPORARY SEEDING AS SHOWN ON THE TEMPORARY SEEDING SUMMARY: BETWEEN FALL AND SPRING SEEDING DATES USE MULCH ONLY IF GROUND IS FROZEN AND RSEED WHEN THAWED.
   11.3. MULCH PER NOTE 9.4 ABOVE
12. IF TEMPORARY STABILIZATION IS REQUIRED, PERMANENT SEEDING SHALL BE PERFORMED DURING THE NEXT APPLICABLE PERIOD PER NOTE 9.1 ABOVE.
13. PUMPING/DEWATERING:
   13.1. CLEAN WATER MAY BE DIRECTED INTO THE STORM DRAIN SYSTEM. UNDER NO CIRCUMSTANCES SHALL SEDIMENT LADEN WATER BE DIRECTED INTO THE STORM DRAIN SYSTEM, INTO DITCHES OR SWALES, OR ANY OTHER SYSTEM THAT DRAINS INTO THE RIVER.
   13.2. SEDIMENT-LADEN WATER SHOULD BE DIRECTED INTO A SEDIMENT TRAP (PORTABLE OR EXCAVATED) OR DIRECTED THROUGH AN APPROVED FILTER MEDIUM.
   13.3. DISCHARGE ENDS OF ALL PIPES OR HOSES SHALL HAVE AN APPROVED ENERGY DISSIPATER INSTALLED PRIOR TO PUMPING.
14. REVIEW AND/OR APPROVAL OF THE EROSION AND SEDIMENT CONTROL PLAN SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OR HER RESPONSIBILITIES FOR COMPLIANCE WITH THE REQUIREMENTS OF THE EROSION AND SEDIMENT CONTROL REGULATIONS, NOR SHALL IT RELIEVE THE CONTRACTOR FROM ERRORS OR OMISSIONS OF THE APPROVED PLAN.
15. ALL STOCKPILING OR STORAGE OF MATERIAL AND EQUIPMENT SHALL BE PROVIDED BY THE CONTRACTOR AT AN OWNER APPROVED LOCATION.
16. ALL FILL SLOPE AREAS SHOWN HEREON ARE TO BE STABILIZED IMMEDIATELY AFTER COMPLETION OF GRADING ALL FILL SLOPE AREAS SHOWN HERON ARE TO BE STABILIZED IMMEDIATELY AFTER COMPLETION OF GRADING OPERATIONS FOR THESE SLOPES. ALL FILL SLOPES 3:1 OR STEEPER SHALL BE STABILIZED WITH TEMPORARY SOIL STABILIZATION MATTING SLOPE APPLICATION ANCHORED TO SURFACE OR ASPHALT TIE DOWN METHOD.
17. SEDIMENT CONTROL FOR UTILITY CONSTRUCTION OUTSIDE OF DESIGNED CONTROLS: SEDIMENT CONTROL FOR UTILITY CONSTRUCTION OUTSIDE OF DESIGNED CONTROLS:
   17.1. EXCAVATED TRENCH MATERIAL SHALL BE PLACED ON THE HIGH SIDE OF TRENCH.
   17.2. TRENCHES FOR UTILITY INSTALLATION SHALL BE BACKFILLED, COMPACTED AND STABILIZED WITH EITHER TEMPORARY OR PERMANENT SEEDING, OR STRAW MULCH AS PER PADPE SPECIFICATIONS AT THE END OF EACH WORKING DAY, NO MORE TRENCH SHALL BE OPENED THAN CAN BE COMPLETED THE SAME DAY.
18. ALL STREETS OUTSIDE THE IMMEDIATE WORK AREA SHALL BE SWEPT TO REMAIN FREE OF SEDIMENT.
19. TEMPORARY VEGETATIVE COVER, MULCHING AND/OR SPRINKLING WATER AS NECESSARY TO CONTROL DUST.
20. ALL SPOIL SHALL BE DISPOSED OF AT AN OFFSITE AREA. FOR THE PURPOSES OF THIS PLAN, AN APPROVED OFFSITE AREA IS ONE HAVING A CURRENT SEDIMENT AND EROSION CONTROL PLAN.
21. ANY DITCHES, STREAMS, OR OTHER WATERWAYS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION.
22. THE PENNSYLVANIA D.E.P., BEAVER COUNTY, AND BIG BEAVER BOROUGH, RESERVE THE RIGHT TO REQUIRE ADDITIONAL SEDIMENT AND EROSION MEASURES DURING THE CONSTRUCTION OF THIS PROJECT.

RECYCLING OR DISPOSAL OF MATERIALS

THE RECYCLING AND DISPOSAL OF MATERIALS SHALL BE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. COMPLY WITH AIR QUALITY, WATER QUALITY, SOLID WASTE MANAGEMENT POLICIES, ETC.

CONSTRUCTION WASTES MAY INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

- EXCESS SOIL MATERIALS(1)
- TREES, SHRUBS AND BRUSH REMOVED DURING CLEARING AND GRUBBING(2)
- SANITARY WASTES(3)
- CONCRETE WASH WATER(3)
- PACKAGING MATERIALS (WOOD, PAPER, PLASTIC, STYROFOAM, ETC.)(3)
- SCRAP OR SURPLUS BUILDING MATERIALS (METALS, RUBBER, PLASTIC, GLASS, MASONRY PRODUCTS, AND OTHER SOLID WASTE MATERIALS)(3)
- PETROLEUM PRODUCTS, PAINT AND THINNERS, CLEANING SOLVENTS, CURING COMPOUNDS AND SIMILAR MATERIALS(3)
- DEMOLITION DEBRIS(3)

1. UNLESS OTHERWISE DIRECTED, EXCESS SOIL AND EXCAVATED MATERIAL MAY BE USED FOR FILL MATERIAL ON SITE OR OFF SITE. COORDINATE WITH OWNER AND AGENCIES HAVING JURISDICTION.
2. TREES, SHRUBS AND BRUSH SHALL BE CHIPPED WHEN POSSIBLE AND REUSED AS MULCH. DO NOT BURN WITHOUT PERMISSION.
3. WHERE POSSIBLE WASTES SHALL BE RECYCLED. WHERE NOT PRACTICAL, WASTES SHALL BE PROPERLY DISPOSED OF AT A PERMITTED LANDFILL FACILITY. THE CONTRACTOR IS ENCOURAGED TO CONSULT THE RECYCLING HOTLINE OR LOCAL SOLID WASTE MANAGEMENT AGENCY.

CONTRACTOR SHALL PRACTICE GOOD HOUSEKEEPING, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- NEAT, ORDERLY AND CENTRALIZED STORAGE OF MATERIALS AND WASTES
- CONTROL OF LITTER PROVIDING CONTAINERS WITH LIDS IF NEEDED
- REGULAR DISPOSAL
- PROMPT CLEANUP OF ANY SPILLS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS OR IN ACCORDANCE WITH REGULATORY REQUIREMENTS. UTILIZE A SPECIALTY FIRM IF REQUIRED.
- PROMPT CLEANUP OF SEDIMENTS WITHIN THE SITE AND ONTO ADJACENT ROADWAYS
- KEEP DUST WITHIN TOLERABLE LIMITS BY USING WATER OR OTHER APPROVED DUST SUPPRESSERS

PRACTICES AND PROCEDURES MUST BE IN PLACE TO ENSURE PROPER HANDLING , STORAGE AND CONTROL, DISPOSAL AND RECYCLING OF GARBAGE FUELS OR ANY SUBSTANCE WHICH MAY BE HARMFUL TO HUMAN, AQUATIC OR FISH LIFE. THESE ITEMS SHALL BE PREVENTED FROM ENTERING SPRINGS, STREAMS, PONDS, LAKES, WETLANDS OR ANY WATER COURSE OR WATERBODY. OILS, FUELS, LUBRICANTS AND COOLANTS SHALL BE PLACE IN SUITABLE CONTAINERS AND DISPOSED OF PROPERLY. ALL TRASH AND GARBAGE SHALL BE COLLECTED AND DISPOSED AT A LOCATION WITH A PADEP APPROVED PLAN.

ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET. SEQ., 271.1 AND 287.1 ET. SEQ. 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 COUNTY CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.

SEEDING SPECIFICATIONS

VEGETATIVE STABILIZATION

VEGETATIVE STABILIZATION: ALL DISTURBED AREAS THAT HAVE NOT OTHERWISE BEEN STABILIZED AND HAVE SIGNIFICANT POTENTIAL FOR EROSION SHOULD BE STABILIZED WITH VEGETATION. THIS INCLUDES GRADED AREAS WHERE IT IS ANTICIPATED THAT FUTURE EARTHMOVING WILL TAKE PLACE WITHIN THE COMING YEAR. AREAS THAT WILL BE SUBJECT TO EARTHMOVING WITHIN 12 MONTHS MAY BE STABILIZED WITH TEMPORARY SEED MIXTURES, PREDOMINANTLY ANNUAL GRASSES. ALL OTHERS SHOULD BE STABILIZED WITH PERMANENT SEED MIXTURES, PREDOMINANTLY PERENNIAL GRASSES. WHEN FINAL GRADE IS ACHIEVED DURING NON-GERMINATING MONTHS, THE AREA SHOULD BE MULCHED UNTIL THE BEGINNING OF THE NEXT PLANTING SEASON. HOWEVER, THE AREA WILL NOT BE CONSIDERED STABILIZED UNTIL A MINIMUM UNIFORM 70% VEGETATIVE COVER OF EROSION RESISTANT PERENNIAL SPECIES HAS BEEN ACHIEVED.

AS DISTURBED AREAS WITHIN A PROJECT APPROACH FINAL GRADE, PREPARATIONS SHOULD BE MADE FOR SEEDING AND MULCHING TO BE DONE IN STAGES AS WELL. 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.

TOPSOIL APPLICATION

TOPSOIL SHOULD BE UNIFORMLY DISTRIBUTED ACROSS THE DISTURBED AREA TO A DEPTH OF 8". REQUIRED SOIL AMENDMENTS SHOULD BE WORKED INTO THE SOIL TO A DEPTH OF 4"-6". IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR PLACEMENT SHOULD BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS. TOPSOIL SHOULD NOT BE PLACED WHILE 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.

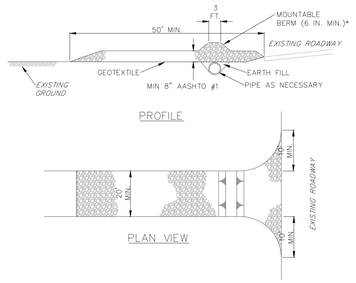
SOIL AMENDMENTS:

- TEMPORARY SEEDING - APPLY AGRICULTURAL LIME AT A RATE OF 1 TON PER ACRE AND 10-10-10 FERTILIZER AT A RATE OF 500 LBS. PER ACRE.
- PERMANENT SEEDING - APPLY AGRICULTURAL LIME AT A RATE OF 6 TONS PER ACRE AND 10-20-20 FERTILIZER OR EQUIVALENT AT A RATE OF 1,000 LBS. PER ACRE.

NOTE: A COMPOST BLANKET WHICH MEETS THE ABOVE STANDARDS MAY BE SUBSTITUTED FOR THE SOIL AMENDMENTS.

SEEDING

- TEMPORARY SEEDING SHALL CONSIST OF MIXES SPECIFIED IN THE SEED MIX TABLE BELOW AND SHALL CONFORM TO THE REQUIREMENTS OF THE PA DEPARTMENT OF TRANSPORTATION (PADOT) SPECIFICATIONS FOR SEED MIXTURE. SEED SHALL BE APPLIED AT A RATE OF 10 LBS./1,000 SQ. YDS. SEED SHALL BE APPLIED BETWEEN THE DATES OF MARCH 15TH TO OCTOBER 15TH.
- PERMANENT SEEDING SHALL CONSIST OF THE FOLLOWING:
  - FORMULA B. THIS IS A REFINED LAWN TYPE, SOD FORMING GRASS FORMULA CONTAINING A LARGE P



* MOUNTABLE BERM USED TO PROVIDE PROPER COVER FOR PIPE

NOTES:

REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.

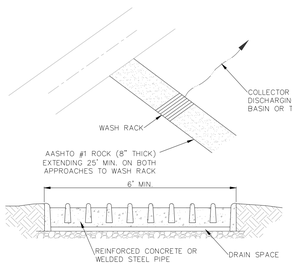
RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.

MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.

MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

STANDARD CONSTRUCTION DETAIL #3-1
ROCK CONSTRUCTION ENTRANCE

NOT TO SCALE



NOTES:

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

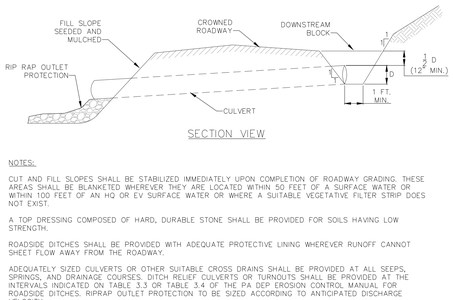
WASH RACK SHALL BE DESIGNED AND CONSTRUCTED TO ACCOMMODATE ANTICIPATED CONSTRUCTION VEHICULAR TRAFFIC.

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.

STANDARD CONSTRUCTION DETAIL #3-2
ROCK CONSTRUCTION ACCESS WITH WASH RACK

NOT TO SCALE



NOTES:

CUT AND FILL SLOPES SHALL BE STABILIZED IMMEDIATELY UPON COMPLETION OF ROADWAY GRADING. THESE AREAS SHALL BE BLANKETED WHEREVER THEY ARE LOCATED WITHIN 50 FEET OF A SURFACE WATER OR WITHIN 100 FEET OF AN HQ OR EV SURFACE WATER OR WHERE A SUITABLE VEGETATIVE FILTER STRIP DOES NOT EXIST.

A TOP DRESSING COMPOSED OF HARD, DURABLE STONE SHALL BE PROVIDED FOR SOILS HAVING LOW STRENGTH.

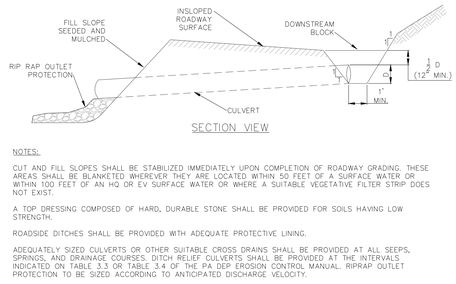
ROADSIDE DITCHES SHALL BE PROVIDED WITH ADEQUATE PROTECTIVE LINING WHEREVER RUNOFF CANNOT SHEET FLOW AWAY FROM THE ROADWAY.

ADEQUATELY SIZED CULVERTS OR OTHER SUITABLE CROSS DRAINS SHALL BE PROVIDED AT ALL SEEPS, SPRINGS, AND DRAINAGE COURSES. DITCH RELIEF CULVERTS OR TURNOUTS SHALL BE PROVIDED AT THE INTERVALS INDICATED ON TABLE 3.3 OR TABLE 3.4 OF THE PA DEP EROSION CONTROL MANUAL FOR ROADSIDE DITCHES. RIPRAP OUTLET PROTECTION TO BE SIZED ACCORDING TO ANTICIPATED DISCHARGE VELOCITY.

ROADWAY SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED ROADWAYS, DITCHES, OR CROSS DRAINS SHALL BE REPAIRED IMMEDIATELY.

STANDARD CONSTRUCTION DETAIL #3-3
CROWNED ROADWAY

NOT TO SCALE



NOTES:

CUT AND FILL SLOPES SHALL BE STABILIZED IMMEDIATELY UPON COMPLETION OF ROADWAY GRADING. THESE AREAS SHALL BE BLANKETED WHEREVER THEY ARE LOCATED WITHIN 50 FEET OF A SURFACE WATER OR WITHIN 100 FEET OF AN HQ OR EV SURFACE WATER OR WHERE A SUITABLE VEGETATIVE FILTER STRIP DOES NOT EXIST.

A TOP DRESSING COMPOSED OF HARD, DURABLE STONE SHALL BE PROVIDED FOR SOILS HAVING LOW STRENGTH.

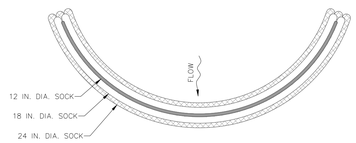
ROADSIDE DITCHES SHALL BE PROVIDED WITH ADEQUATE PROTECTIVE LINING.

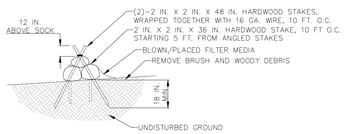
ADEQUATELY SIZED CULVERTS OR OTHER SUITABLE CROSS DRAINS SHALL BE PROVIDED AT ALL SEEPS, SPRINGS, AND DRAINAGE COURSES. DITCH RELIEF CULVERTS SHALL BE PROVIDED AT THE INTERVALS INDICATED ON TABLE 3.3 OR TABLE 3.4 OF THE PA DEP EROSION CONTROL MANUAL. RIPRAP OUTLET PROTECTION TO BE SIZED ACCORDING TO ANTICIPATED DISCHARGE VELOCITY.

ROADWAY SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED ROADWAYS, DITCHES, OR CROSS DRAINS SHALL BE REPAIRED IMMEDIATELY.

STANDARD CONSTRUCTION DETAIL #3-4
INSLOPED ROADWAY

NOT TO SCALE





DESIGN NOTES:

1. COMPOST SOCK SEDIMENT TRAP SHALL BE SIZED TO PROVIDE 2000 CUBIC FEET OF STORAGE CAPACITY FOR EACH ACRE TRIBUTARY TO THE TRAP.
2. MINIMUM BASE WIDTH IS EQUAL TO THE HEIGHT.
3. SEDIMENT ACCUMULATION SHALL NOT EXCEED 1/3 THE TOTAL HEIGHT OF THE TRAP.
4. SOCKS SHALL BE OF LARGER DIAMETER AT THE BASE OF THE TRAP AND DECREASE IN DIAMETER FOR SUCCESSIVE LAYERS AS SHOWN ON THE PLAN VIEW.
5. ENDS OF THE TRAP SHALL BE A MINIMUM OF 1 FOOT HIGHER IN ELEVATION THAN THE MID-SECTION, WHICH SHALL BE LOCATED AT THE POINT OF DISCHARGE.

NOTES:

SOCK MATERIAL SHALL MEET THE STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

COMPOST SOCK SEDIMENT TRAPS SHALL NOT EXCEED THREE SOCKS IN HEIGHT AND SHALL BE STACKED IN PYRAMIDAL FORM AS SHOWN ABOVE. MINIMUM TRAP HEIGHT IS ONE 24" DIAMETER SOCK. ADDITIONAL STORAGE MAY BE PROVIDED BY MEANS OF AN EXCAVATED SUMP 12" DEEP EXTENDING 1 TO 3 FEET UPSLOPE OF THE SOCKS ALONG THE LOWER SIDE OF THE TRAP.

COMPOST SOCK SEDIMENT TRAPS SHALL PROVIDE 2,000 CUBIC FEET STORAGE CAPACITY WITH 12" FREEBOARD FOR EACH TRIBUTARY DRAINAGE ACRE. (SEE MANUFACTURER FOR ANTICIPATED SETTLEMENT.)

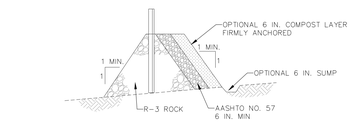
THE MAXIMUM TRIBUTARY DRAINAGE AREA IS 5.0 ACRES. SINCE COMPOST SOCKS ARE "FLOW-THROUGH," NO SPILLWAY IS REQUIRED.

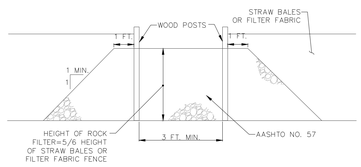
COMPOST SOCK SEDIMENT TRAPS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/3 THE HEIGHT OF THE SOCKS.

PHOTODEGRADABLE AND BIODEGRADABLE SOCKS SHALL NOT BE USED FOR MORE THAN 1 YEAR.

STANDARD CONSTRUCTION DETAIL #3-11
COMPOST SOCK SEDIMENT TRAP

NOT TO SCALE





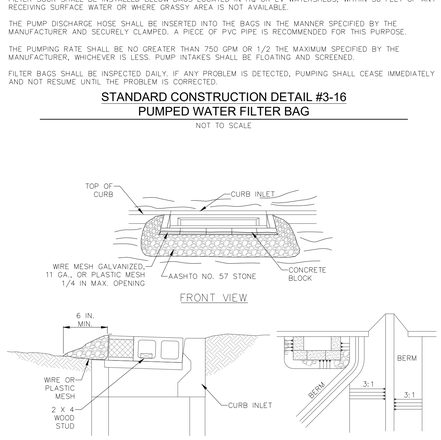
NOTES:

A ROCK FILTER OUTLET SHALL BE INSTALLED WHERE FAILURE OF A SILT FENCE OR STRAW BALE BARRIER HAS OCCURRED DUE TO CONCENTRATED FLOW. ANCHORED COMPOST LAYER SHALL BE USED ON UPSLOPE FACE IN HQ AND EV WATERSHEDS.

SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE OUTLET.

STANDARD CONSTRUCTION DETAIL #4-6
ROCK FILTER OUTLET

NOT TO SCALE



NOTES:

LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 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%
AOS % RETAINED	ASTM D-4751	80 SIEVE

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 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.

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 FILTER STONE 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.

NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

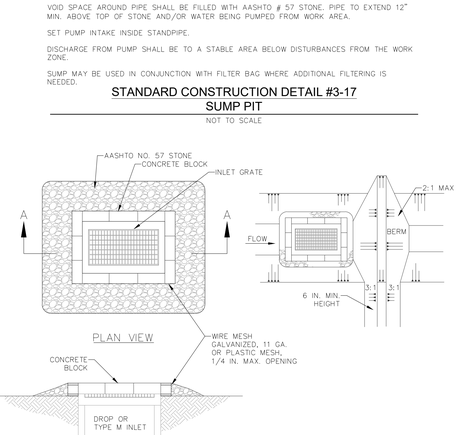
THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

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.

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

STANDARD CONSTRUCTION DETAIL #3-16
PUMPED WATER FILTER BAG

NOT TO SCALE



NOTES:

LOCATE SUMP AT LOW POINT IN WORK AREA AND OUTSIDE OF CONSTRUCTION ACTIVITY. WHEREVER RUNOFF FROM A WORK AREA FLOWS DIRECTLY TO THE SUMP AREA, A FILTER BAG SHALL BE ATTACHED AT THE DISCHARGE POINT UNLESS PUMPING TO A SEDIMENT BASIN OR SEDIMENT TRAP.

MINIMUM DIAMETER OF PIT BOTTOM SHALL BE 24" LARGER THAN PIPE DIAMETER. MINIMUM DEPTH OF PIT SHALL BE 24" BELOW WATER LEVEL IN WORK AREA (INCLUDING THE AASHTO #57 STONE). 12" TO 24" PERFORATED CMP OR PVC PIPE SHALL BE SET ON 12" OF CLEAN AASHTO # 57 STONE.

VOID SPACE AROUND PIPE SHALL BE FILLED WITH AASHTO # 57 STONE. PIPE TO EXTEND 12" MIN. ABOVE TOP OF STONE AND/OR WATER BEING PUMPED FROM WORK AREA.

SET PUMP INTAKE INSIDE STANDPIPE.

DISCHARGE FROM PUMP SHALL BE TO A STABLE AREA BELOW DISTURBANCES FROM THE WORK ZONE.

SUMP MAY BE USED IN CONJUNCTION WITH FILTER BAG WHERE ADDITIONAL FILTERING IS NEEDED.

STANDARD CONSTRUCTION DETAIL #3-17
SUMP PIT

NOT TO SCALE

NOTES:

SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

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.

STANDARD CONSTRUCTION DETAIL #4-1
COMPOST FILTER SOCK

NOT TO SCALE

NOTES:

MAXIMUM DRAINAGE AREA = 1 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 PROVIDED AND MAINTAINED IMMEDIATELY DOWN GRADIENT OF THE PROTECTED INLET UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT.

SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE HEIGHT OF THE STONE, DAMAGED OR CLOGGED INSTALLATIONS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

FOR SYSTEMS DISCHARGING TO HQ OR EV SURFACE WATER, A 6 INCH THICK COMPOST LAYER SHALL BE SECURELY ANCHORED ON OUTSIDE AND OVER TOP OF STONE.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

STANDARD CONSTRUCTION DETAIL #4-17
STONE AND CONCRETE BLOCK INLET PROTECTION - TYPE C INLET

NOT TO SCALE

NOTES:

MAXIMUM DRAINAGE AREA =1 ACRE.

INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS NOT LOCATED AT A LOW POINT.

ROLLED EARTHEN BERM IN ROADWAY SHALL BE PROVIDED AND MAINTAINED IMMEDIATELY DOWN GRADIENT OF THE PROTECTED INLET 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 TO REMAIN PERMANENTLY.

TOP OF BLOCK SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADS IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC.

SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE HEIGHT OF THE STONE. DAMAGED OR CLOGGED INSTALLATIONS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

FOR SYSTEMS DISCHARGING TO HQ OR EV SURFACE WATER, A 6 INCH THICK COMPOST LAYER SHALL BE SECURELY ANCHORED ON OUTSIDE AND OVER TOP OF STONE. COMPOST SHALL MEET THE STANDARDS IN TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

STANDARD CONSTRUCTION DETAIL #4-18
STONE AND CONCRETE BLOCK INLET PROTECTION - TYPE M INLET

NOT TO SCALE

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
919 CONESTOGA ROAD BUILDING 3, SUITE 213
BRYN ATHYN, PA 19009
610.527.3030

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076453

GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03 EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN

REV	DESCRIPTION	DATE
A	30% Review	05/29/26
B	60% Review	06/08/26
C	90% Review	06/23/26
		07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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DRAWING INFORMATION

DATE:	JUNE 2026
PROJECT NUMBER:	25010482
SCALE:	NOT TO SCALE
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

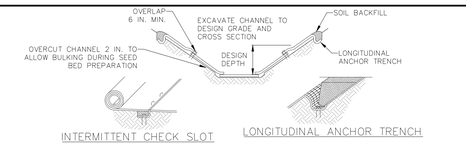
EROSION & SEDIMENT CONTROL DETAILS

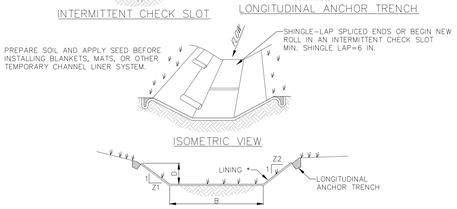
SHEET NUMBER

C540

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

N





* SEE MANUFACTURER'S LINING INSTALLATION DETAIL FOR STAPLE PATTERNS, VEGETATIVE STABILIZATION FOR SOIL AMENDMENTS, SEED MIXTURES AND MULCHING INFORMATION.

CHANNEL NO.	STATIONS	BOTTOM WIDTH B (FT)	DEPTH D (FT)	TOP WIDTH W (FT)	Z1 (FT)	Z2 (FT)	LINING
TDC-1	AS SHOWN ON PLANS	1	1.25	2.12	1	1	C125BN
TDC-2	-	1	2.75	4.96	1	1	S150BN
TDC-3	-	1	2	3.42	1	1	S150BN
TDC-4	-	1	2.5	4.4	1	1	S75BN
TDC-5	-	1	2.5	4.54	1	1	S75BN
TDC-6	-	1	1.75	3.34	1	1	SC150BN
TDC-7	-	1	1.75	5.04	1	1	Shoremax
TDC-8	-	1	1.75	3.18	1	1	S75BN
TDC-9A	-	1	1.5	2.6	1	1	C125BN
TDC-9B	-	1	0.75	1.54	1	1	S75BN
TDC-10	-	1	1.25	2.36	1	1	S75BN
TDC-11	-	1	3	5.48	1	1	S150BN
TDC-12	-	1	1.5	2.92	1	1	Shoremax
TDC-13	-	1	2.75	4.8	1	1	S150BN
TDC-14	-	1	1.23	3.46	1	1	C350
CWDC-1	-	1	7.25	13.7	1	1	S75BN
CWDC-2	-	1	1	1.66	1	1	S75BN

NOTES:

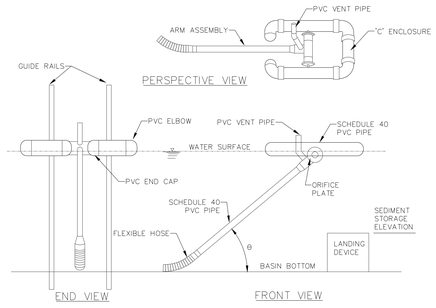
ANCHOR TRENCHES SHALL BE INSTALLED AT BEGINNING AND END OF CHANNEL IN THE SAME MANNER AS LONGITUDINAL ANCHOR TRENCHES.

CHANNEL DIMENSIONS SHALL BE CONSTANTLY MAINTAINED. CHANNEL SHALL BE CLEANED WHENEVER TOTAL CHANNEL DEPTH IS REDUCED BY 25% AT ANY LOCATION.
SEDIMENT DEPOSITS SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OR AS SOON AS SOIL CONDITIONS PERMIT ACCESS TO CHANNEL WITHOUT FURTHER DAMAGE. DAMAGED LINING SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS OF DISCOVERY.

NO MORE THAN ONE THIRD OF THE SHOOT (GRASS LEAF) SHALL BE REMOVED IN ANY MOWING. GRASS HEIGHT SHALL BE MAINTAINED BETWEEN 2 AND 3 INCHES UNLESS OTHERWISE SPECIFIED. EXCESS VEGETATION SHALL BE REMOVED FROM PERMANENT CHANNELS TO ENSURE SUFFICIENT CHANNEL CAPACITY.

STANDARD CONSTRUCTION DETAIL #6-1
VEGETATED CHANNEL

NOT TO SCALE



BASIN NO.	WATER SURFACE ELEVATION (FT)	ARM LENGTH (FT)	ARM DI. (IN)	ORIFICE SIZE (IN)*	TOP OF LANDING DEVICE ELEVATION (FT)	FLEXIBLE HOSE LENGTH (IN)	FLEXIBLE HOSE ATTACHMENT ELEV (FT)
1	1170.00	12	6	5	1169.00	48	1168.00
2	1175.00	12	6	4	1174.00	48	1173.00
3	1163.00	12	6	4	1161.25	48	1159.00
4	1175.00	12	6	4	1174.00	48	1173.00
5	1171.00	12	6	4	1170.25	48	1168.00
6	1153.00	12	4	3	1151.25	48	1149.00

NOTES:

ORIFICE DIAMETER MUST BE EQUAL TO OR LESS THAN ARM DIAMETER

A ROPE SHALL BE ATTACHED TO THE SKIMMER ARM TO FACILITATE ACCESS TO THE SKIMMER ONCE INSTALLED.

SKIMMER SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT.
ANY MALFUNCTIONING SKIMMER SHALL BE REPAIRED OR REPLACED WITHIN 24 HOURS OF INSPECTION.

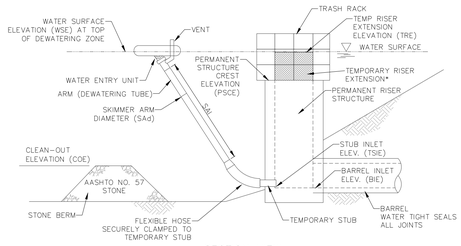
ICE OR SEDIMENT BUILDUP AROUND THE PRINCIPAL SPILLWAY SHALL BE REMOVED SO AS TO ALLOW THE SKIMMER TO RESPOND TO FLUCTUATING WATER ELEVATIONS.

SEDIMENT SHALL BE REMOVED FROM THE BASIN WHEN IT REACHES THE LEVEL MARKED ON THE SEDIMENT CLEAN-OUT STAKE OR THE TOP OF THE LANDING DEVICE.

A SEMI-CIRCULAR LANDING ZONE MAY BE SUBSTITUTED FOR THE GUIDE RAILS (STANDARD CONSTRUCTION DETAIL # 7-3).

STANDARD CONSTRUCTION DETAIL #7-1
SKIMMER

NOT TO SCALE



BASIN NO.	WATER SURFACE ELEV. WSE (FT)	SKIMMER							
		ORIFICE		ARM			FLEXIBLE HOSE		
		DIA. (IN)	HEAD (FT)	DIA. SAd (IN)	LENGTH SAl (FT)	MAT'L	DIA. (IN)	LENGTH (IN)	MAT'L
1	1170.00	5	4	6	12	PVC	6	24	FLEX
2	1175.00	4	4	6	12	PVC	6	24	FLEX
3	1163.00	3	3	4	12	PVC	4	24	FLEX
4	1175.00	4	4	6	12	PVC	6	24	FLEX
5	1171.00	4	4	6	12	PVC	6	24	FLEX
6	1153.00	3	3	4	12	PVC	4	24	FLEX

BASIN NO.	TEMPORARY STUB				PERMANENT RISER			RISER EXTENSION			BARREL
	INSIDE DIA (IN)	INVERT ELEV TSIE (FT)	MAT'L	LENGTH (FT)	CREST ELEV. PSCE (FT)	HORIZ OPENING LENGTH El (FT)	HORIZ OPENING WIDTH EW (FT)	CREST ELEV. TRE (FT)	HORIZ OPENING LENGTH (FT)	HORIZ OPENING WIDTH (FT)	INLET ELEV. BI (FT)
1	6	1168.00	PVC	2	1169.00	4	2	1170.00	4	2	1168.00
2	6	1173.00	PVC	2	1174.00	4	2	1175.00	4	2	1173.00
3	4	1159.00	PVC	2	1161.25	4	2	1163.00	4	2	1159.00
4	6	1173.00	PVC	2	1174.00	6	2	1175.00	6	2	1173.00
5	6	1168.00	PVC	2	1170.25	4	2	1171.00	4	2	1168.00
6	4	1149.00	PVC	2	1151.25	4	2	1153.00	4	2	1149.00

NOTES:

ALL ORIFICES ON PERMANENT RISER BELOW TEMPORARY RISER EXTENSION SHALL HAVE WATER-TIGHT TEMPORARY SEALS PROVIDED. TEMPORARY STUB INVERT ELEVATION SHALL BE SET AT OR BELOW SEDIMENT CLEAN-OUT ELEVATION.

A ROPE SHALL BE ATTACHED TO THE SKIMMER ARM TO FACILITATE ACCESS TO THE SKIMMER ONCE INSTALLED.

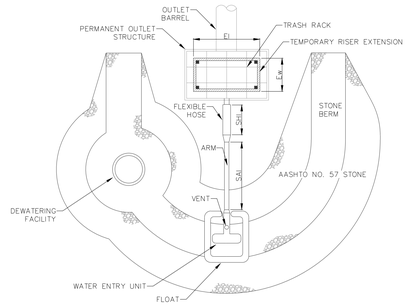
SKIMMER SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT.
ANY MALFUNCTIONING SKIMMER SHALL BE REPAIRED OR REPLACED WITHIN 24 HOURS OF INSPECTION.

ICE OR SEDIMENT BUILDUP AROUND THE PRINCIPAL SPILLWAY SHALL BE REMOVED SO AS TO ALLOW THE SKIMMER TO RESPOND TO FLUCTUATING WATER ELEVATIONS.

SEDIMENT SHALL BE REMOVED FROM THE BASIN WHEN IT REACHES THE LEVEL MARKED ON THE SEDIMENT CLEAN-OUT STAKE OR THE TOP OF THE STONE BERM. SEE STANDARD CONSTRUCTION DETAIL #7-3 FOR CONFIGURATION OF STONE BERM.

STANDARD CONSTRUCTION DETAIL #7-2
SKIMMER ATTACHED TO PERMANENT RISER

NOT TO SCALE



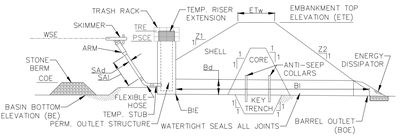
NOTES:

NO GUIDE RAILS SHALL BE REQUIRED FOR THIS INSTALLATION.

THIS DETAIL SHALL BE USED IN CONJUNCTION WITH STANDARD CONSTRUCTION DETAILS #7-2 AND #7-4.

STANDARD CONSTRUCTION DETAIL #7-3
SKIMMER WITH STONE LANDING BERM

NOT TO SCALE



BASIN NO.	Z1 (FT)	Z2 (FT)	TEMP RISER EXT. ELEV. TRE (FT)	EMBANKMENT				CLEAN OUT ELEV. COE (FT)	BOTTOM ELEV. BE (FT)
				TOP ELEV. ETE (FT)	TOP WIDTH ETW (FT)	KEY TRENCH DEPTH (FT)	KEY TRENCH WIDTH (FT)		
1	3	3	1170.00	1176.00	10	2	4	1169.00	1168.00
2	3	3	1175.00	1181.00	8	2	4	1174.00	1173.00
3	3	3	1163.00	1167.00	8	2	4	1161.25	1159.00
4	3	3	1175.00	1181.00	8	2	4	1174.00	1173.00
5	3	3	1171.00	1176.00	8	2	4	1170.25	1168.00
6	3	3	1153.00	1157.00	8	2	4	1151.25	1149.00

BASIN NO.	SKIMMER			OUTLET BARREL				
	DIA Sad (IN)	LENGTH Sal (FT)	MAT'L	DIA BD (IN)	INLET ELEV BIE (FT)	MAT'L	LENGTH B1 (FT)	OUTLET ELEV BOE (FT)
1	6	12	PVC	24	1168.00	RCP	80	1163.00
2	6	12	PVC	24	1173.00	RCP	275	1164.00
3	4	12	PVC	24	1159.00	RCP	130	1155.00
4	6	12	PVC	24	1173.00	RCP	280	1170.00
5	6	12	PVC	24	1168.00	RCP	195	1158.00
6	4	12	PVC	24	1149.00	RCP	210	1134.00

NOTES:

SEDIMENT BASINS, INCLUDING ALL APPURTENANT WORKS, SHALL BE CONSTRUCTED TO THE DETAIL AND DIMENSIONS SHOWN ON THE E&S PLAN DRAWINGS.

AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO A DEPTH OF TWO FEET PRIOR TO ANY PLACEMENT AND COMPACTION OF EARTHEN FILL. IN ORDER TO FACILITATE MAINTENANCE AND RESTORATION, THE POOL AREA SHALL BE CLEARED OF ALL BRUSH, TREES, AND OBJECTIONABLE MATERIAL. FILL MATERIAL FOR THE EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN LAYERED LIFTS OF NOT MORE THAN 6 TO 9 IN. THE MAXIMUM ROCK SIZE SHALL BE NO GREATER THAN 2/3 THE LIFT THICKNESS.

UPON COMPLETION, THE EMBANKMENT SHALL BE SEEDED, MULCHED, BLANKETED OR OTHERWISE STABILIZED ACCORDING TO THE SPECIFICATIONS OF THE E&S PLAN DRAWINGS. TREES SHALL NOT BE PLANTED ON THE EMBANKMENT.

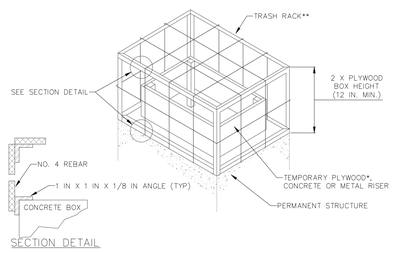
INSPECT ALL SEDIMENT BASINS ON AT LEAST A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. PROVIDE ACCESS FOR SEDIMENT REMOVAL AND OTHER REQUIRED MAINTENANCE ACTIVITIES. A CLEAN OUT STAKE SHALL BE PLACED NEAR THE CENTER OF EACH BASIN. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED THE CLEAN OUT ELEVATION ON THE STAKE AND THE BASIN RESTORED TO ITS ORIGINAL DIMENSIONS. DISPOSE OF MATERIALS REMOVED FROM THE BASIN IN THE MANNER DESCRIBED IN THE E&S PLAN.

BASIN EMBANKMENTS, SPILLWAYS, AND OUTLETS SHALL BE INSPECTED FOR EROSION, PIPING AND SETTLEMENT. NECESSARY REPAIRS SHALL BE IMMEDIATELY. DISPLACED RIPRAP WITHIN THE OUTLET ENERGY DISSIPATER SHALL BE REPLACED IMMEDIATELY.

ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISTURBED AREAS SHALL BE STABILIZED INSIDE THE BASIN BEFORE CONVERSION TO A STORMWATER MANAGEMENT FACILITY. THE DEVICE SHOWN IN STANDARD CONSTRUCTION DETAIL #7-16 MAY BE USED TO DEWATER SATURATED SEDIMENT PRIOR TO ITS REMOVAL. ROCK FILTERS SHALL BE ADDED AS NECESSARY.

STANDARD CONSTRUCTION DETAIL #7-4
SEDIMENT BASIN EMBANKMENT AND SPILLWAY DETAILS - SKIMMER

NOT TO SCALE



* 3/4 IN. PRESSURE TREATED PLYWOOD BOX WITH 2 IN. X 2 IN. PRESSURE TREATED CORNER SUPPORTS, SET INTO 1-1/2 IN. GRATE OFFSETS, CAULK ALL SEAMS TO FORM WATERTIGHT SEALS.
** TRASH RACK COMPOSED OF 1 IN. X 1 IN. X 1/8 IN. L (TYP.) AND #4 BARS (TYP.) WELDED TO THE ANGLES AND AT EACH INTERSECTION OF THE BARS; #4 BARS SPACED AT HALF THE DIAMETER OF THE BARREL MAX.

NOTES:

BOX SHALL BE BOLTED, STRAPPED, OR OTHERWISE SECURED TO THE PERMANENT RISER.

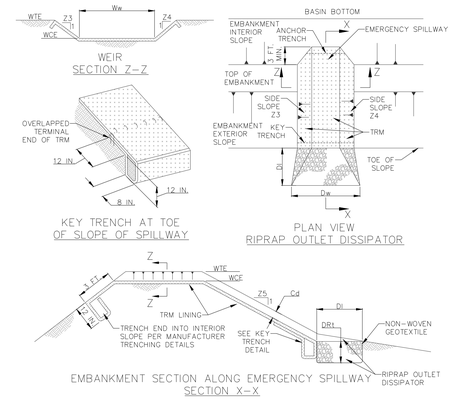
TOP OF TEMPORARY RISER EXTENSION SHALL BE AT LEAST AS HIGH AS SEDIMENT BASIN TEMPORARY RISER AND SHALL BE 6 IN. (MINIMUM) BELOW CREST OF EMERGENCY SPILLWAY.

ALL JOINTS SHALL BE WATER TIGHT.

CLOGGED OR DAMAGED SPILLWAYS SHALL BE REPAIRED IMMEDIATELY. TRASH AND OTHER DEBRIS SHALL BE REMOVED FROM THE BASIN AND RISER.

STANDARD CONSTRUCTION DETAIL #7-10
TEMPORARY RISER EXTENSION AND TRASH RACK FOR PERMANENT STRUCTURE

NOT TO SCALE



BASIN NO.	WEIR					LINING		CHANNEL		DISSIPATER			
	Z3 (FT)	Z4 (FT)	TOP ELEV WTE (FT)	CREST ELEV WCE (FT)	WIDTH Ww (FT)	TRM Type	Staple Pattern	Z5 (FT)	DEPTH Cd (FT)	LENGTH Di (FT)	WIDTH Dw (FT)	RIPRAP SIZE (R_)	RIPRAP THICK. DRI (IN)
1	3	3	1176.00	1173.00	24	ECP-2	E	3	1	10	24	3	9
2	3	3	1181.00	1176.00	8	ECP-2	E	3	1	10	8	3	9
3	3	3	1167.00	1164.50	24	ECP-2	E	3	1	10	24	3	9
4	3	3	1181.00	1178.00	26	ECP-2	E	3	1	10	26	3	9
5	3	3	1176.00	1172.00	20	ECP-2	E	3	1	10	20	3	9
6	3	3	1157.00	1154.00	20	ECP-2	E	3	1	10	20	3	9

NOTES:

HEAVY EQUIPMENT SHALL NOT CROSS OVER SPILLWAY WITHOUT PRECAUTIONS TAKEN TO PROTECT TRM LINING.

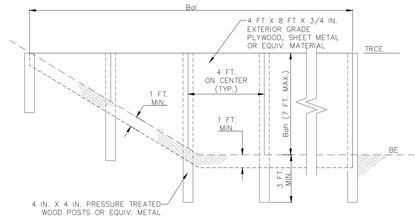
DISPLACED LINER WITHIN THE SPILLWAY AND/OR OUTLET CHANNEL SHALL BE REPLACED IMMEDIATELY.

RIPRAP AT TOE OF EMBANKMENT SHALL BE EXTENDED A SUFFICIENT LENGTH IN BOTH DIRECTIONS TO PREVENT SCOUR.

THE USE OF BAFFLES THAT REQUIRE SUPPORT POSTS ARE RESTRICTED FROM USE IN BASINS REQUIRING IMPERVIOUS LINERS.

STANDARD CONSTRUCTION DETAIL #7-13
SEDIMENT BASIN EMERGENCY SPILLWAY WITH TRM LINING

NOT TO SCALE



BASIN OR TRAP NO.	BAFFLE		TEMPORARY RISER	BOTTOM
	LENGTH Bal (FT)	HEIGHT Bah (FT)	CREST ELEV TRCE (FT)	BOTTOM ELEV BE (FT)
1	150	2	1170.00	1168.00
2	-	-	-	-
3	175	4	1163.00	1159.00
4	255	2	1175.00	1173.00
5	85	3	1171.00	1168.00
6	195	4	1153.00	1149.00

NOTES:

SEE APPROPRIATE BASIN DETAIL FOR PROPER LOCATION AND ORIENTATION.

AN ACCEPTABLE ALTERNATIVE IS TO INSTALL A SUPER SILT FENCE AT THE BAFFLE LOCATION

IN POOLS WITH DEPTHS EXCEEDING 7', THE TOP OF THE PLYWOOD BAFFLE DOES NOT NEED TO EXTEND TO THE TEMPORARY RISER CREST. SUPER SILT FENCE BAFFLES NEED NOT EXTEND TO TRCE ELEVATION.

BAFFLES SHALL BE TIED INTO ONE SIDE OF THE BASIN UNLESS OTHERWISE SHOWN ON THE PLAN DRAWINGS.

SUBSTITUTION OF MATERIALS NOT SPECIFIED IN THIS DETAIL SHALL BE APPROVED BY THE DEPARTMENT OR THE LOCAL CONSERVATION DISTRICT BEFORE INSTALLATION.

DAMAGED OR WARPED BAFFLES SHALL BE REPLACED WITHIN 7 DAYS OF INSPECTION.

BAFFLES REQUIRING SUPPORT POSTS SHALL NOT BE INSTALLED IN BASINS REQUIRING IMPERVIOUS LINERS.

STANDARD CONSTRUCTION DETAIL #7-14
BAFFLE

NOT TO SCALE

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

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866.850.4200 www.atwell.com
919 CONESTOGA ROAD BUILDING 3, SUITE 213
BRYN MAWR, PA 19010
610.527.3030

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076453

GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN

REV	DESCRIPTION	DATE
A	30% Review	06/26/26
B	60% Review	06/08/26
C	90% Review	06/23/26
		07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

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DRAWING INFORMATION

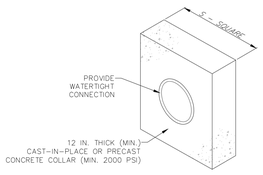
DATE:	JUNE 2026
PROJECT NUMBER:	25010482
SCALE:	NOT TO SCALE
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

EROSION & SEDIMENT CONTROL DETAILS

SHEET NUMBER

C541



BASIN NO.	TEMP OR PERM	Y (FT)	Z	Ls (FT)	Lf (FT)[1]	V (IN)	BARREL DIA (IN)	MIN COLLAR SIZE (IN)	NO. COLLARS	MIN COLLAR SPACING (FT)	MAX COLLAR SPACING (FT)	DISTANCE TO 1ST COLLAR (FT)
1	Permanent	2.00	3:1	14.6	16.8	14	24	58	1	5.9	16.4	7.3
2	Permanent	2.00	3:1	14.6	16.8	14	24	58	1	5.9	16.4	7.3
3	Permanent	4.00	3:1	29.2	33.6	27	24	84	1	11.3	31.5	14.6
4	Permanent	2.00	3:1	14.6	16.8	14	24	58	1	5.9	16.4	7.3
5	Permanent	3.00	3:1	21.9	25.2	20	24	70	1	8.4	23.4	11.0
6	Permanent	4.00	3:1	29.2	33.6	27	24	84	1	11.3	31.5	14.6

1. For a temporary basin, a minimum 10% increase should be provided. For a permanent basin, a minimum 15% increase should be provided.

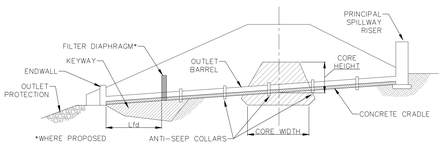
NOTES:

ALL COLLARS SHALL BE INSTALLED SO AS TO BE WATERTIGHT.

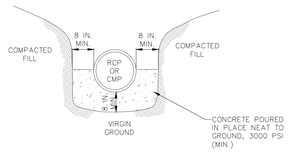
COLLAR SIZE AND SPACING SHALL BE AS INDICATED WITHIN TABLE.

STANDARD CONSTRUCTION DETAIL #7-16
CONCRETE ANTI-SEEP COLLAR FOR PERMANENT BASINS OR TRAPS

NOT TO SCALE



EMBANKMENT ALONG PRINCIPAL SPILLWAY



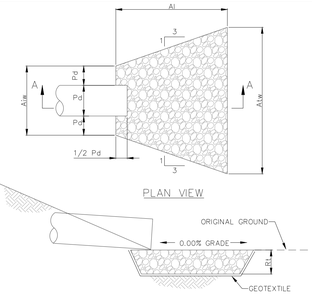
CROSS-SECTION AT OUTLET BARREL

NOTES:

A CONCRETE CRADLE MAY BE USED IN CONJUNCTION WITH ANTI-SEEP COLLARS AND/OR FILTER DIAPHRAGM.
ANTI-SEEP COLLAR NUMBER, SIZE AND SPACING SHALL BE AS SHOWN ELSEWHERE IN PLAN.
FILTER DIAPHRAGM LOCATION (Lfd) SHALL BE AS SHOWN IN FIGURE 7.8 OF THE PA DEP EROSION CONTROL MANUAL.

STANDARD CONSTRUCTION DETAIL #7-17
CONCRETE CRADLE FOR BASIN OR TRAP OUTLET BARREL

NOT TO SCALE



SECTION A-A

OUTLET NO.	PIPE DIA. Do (in.)	RIPRAP		APRON		
		RIPRAP SIZE	Rt (in)	A1 (ft)	Atw (ft)	Atw (ft)
OUTFALL #1	48	R-5	27	22	12	34
OUTFALL #2	30	R-5	27	23.2	7.5	30.7
OUTFALL #3	36	R-5	27	20	9	29
OUTFALL #4	42	R-6	36	29	10.5	39.5
OUTFALL #5	36	R-6	36	20.8	9	29.8
OUTFALL #6	36	R-5	27	21.9	9	30.9

NOTES:

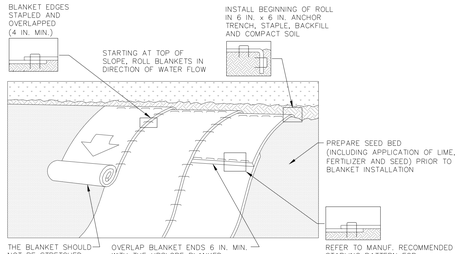
ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. TERMINAL WIDTHS SHALL BE ADJUSTED AS NECESSARY TO MATCH RECEIVING CHANNELS.

ALL APRONS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT. DISPLACED RIPRAP WITHIN THE APRON SHALL BE REPLACED IMMEDIATELY.

EXTEND RIPRAP ON BACK SIDE OF APRON TO AT LEAST 1/2 DEPTH OF PIPE ON BOTH SIDES TO PREVENT SCOUR AROUND THE PIPE.

STANDARD CONSTRUCTION DETAIL #9-2
RIPRAP APRON AT PIPE OUTLET NO FLARED ENDWALL

NOT TO SCALE



NOTES:

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 WEEKLY 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.

STANDARD CONSTRUCTION DETAIL #11-1
EROSION CONTROL BLANKET INSTALLATION

NOT TO SCALE

NOTES:

FABRIC SHALL HAVE THE MINIMUM PROPERTIES AS SHOWN IN TABLE 4.3 OF THE PA DEP EROSION CONTROL MANUAL.

FABRIC WIDTH SHALL BE 36 IN. MINIMUM. STAKES SHALL BE HARDWOOD OR EQUIVALENT STEEL (U OR T) STAKES.

TRIPLE SILT FENCE SHALL BE PLACED AT LEVEL EXISTING GRADE. ENDS OF THE FENCE SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT.

OVERLAP BARRIERS 18" WHEN USING MULTIPLE TYPES OF SEDIMENT BARRIERS IN A SINGLE RUN ALONG THE PERMETER ON A SITE.

INTERMINGLE BRUSH, WOODCHIPS, BALES OF STRAW OR HAY SO AS NOT TO FORM A SOLID DAM. THE HEIGHT OF THE BRUSH BARRIER SHOULD NOT EXCEED 24".

SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH HALF THE ABOVE GROUND HEIGHT OF THE FENCE.

ANY SECTION OF TRIPLE SILT FENCE WHICH HAS BEEN UNDERMINED OR TOPPED SHALL BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET (STANDARD CONSTRUCTION DETAIL # 4-6).

FENCE SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN TRIBUTARY AREA IS PERMANENTLY STABILIZED.

TRIPLE SILT FENCE (30" HIGH)

NOT TO SCALE

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
919 CONESTOGA ROAD BUILDING 3, SUITE 213
BRYN MAWR, PA 19010
610.527.3030

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076453

GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03 EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN

REV	DESCRIPTION	DATE
A	30% Review	05/26/26
B	60% Review	06/08/26
C	90% Review	06/23/26
		07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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DRAWING INFORMATION

DATE:	JUNE 2026
PROJECT NUMBER:	25010482
SCALE:	NOT TO SCALE
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

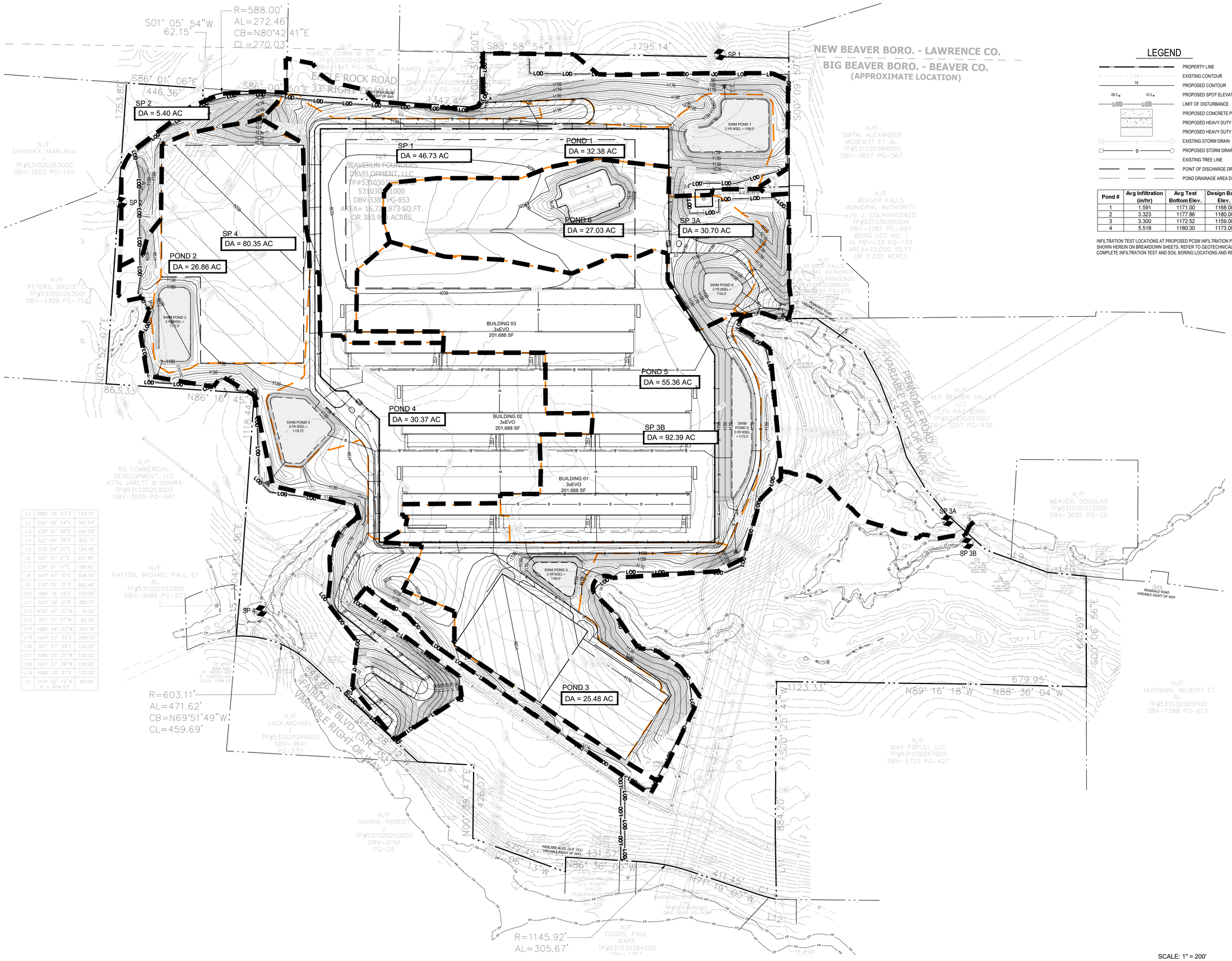
EROSION & SEDIMENT CONTROL DETAILS

SHEET NUMBER

C542

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

N



LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- LIMIT OF DISTURBANCE
- PROPOSED CONCRETE PAVING
- PROPOSED HEAVY DUTY CONCRETE PAVING
- PROPOSED HEAVY DUTY ASPHALT PAVING
- EXISTING STORM DRAIN
- PROPOSED STORM DRAIN
- EXISTING TREE LINE
- POINT OF DISCHARGE DRAINAGE AREA DIVIDE
- POND DRAINAGE AREA DIVIDE

Pond #	Avg Infiltration (in/hr)	Avg Test Bottom Elev.	Design Basin Elev.
1	1.591	1171.00	1188.00
2	3.323	1177.86	1180.00
3	3.300	1172.52	1159.00
4	5.518	1180.30	1173.00

INFILTRATION TEST LOCATIONS AT PROPOSED PCSM INFILTRATION PONDS ARE SHOWN HEREIN ON BREAKDOWN SHEETS. REFER TO GEOTECHNICAL REPORT FOR COMPLETE INFILTRATION TEST AND SOIL BORING LOCATIONS AND RESULTS.

SCALE: 1" = 200'

0 200 400 600 1000

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELL, MD 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE074453

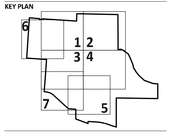
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 074453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	90% Review	05/26/26
B	90% Review	06/08/26
C	90% Review	06/23/26
0	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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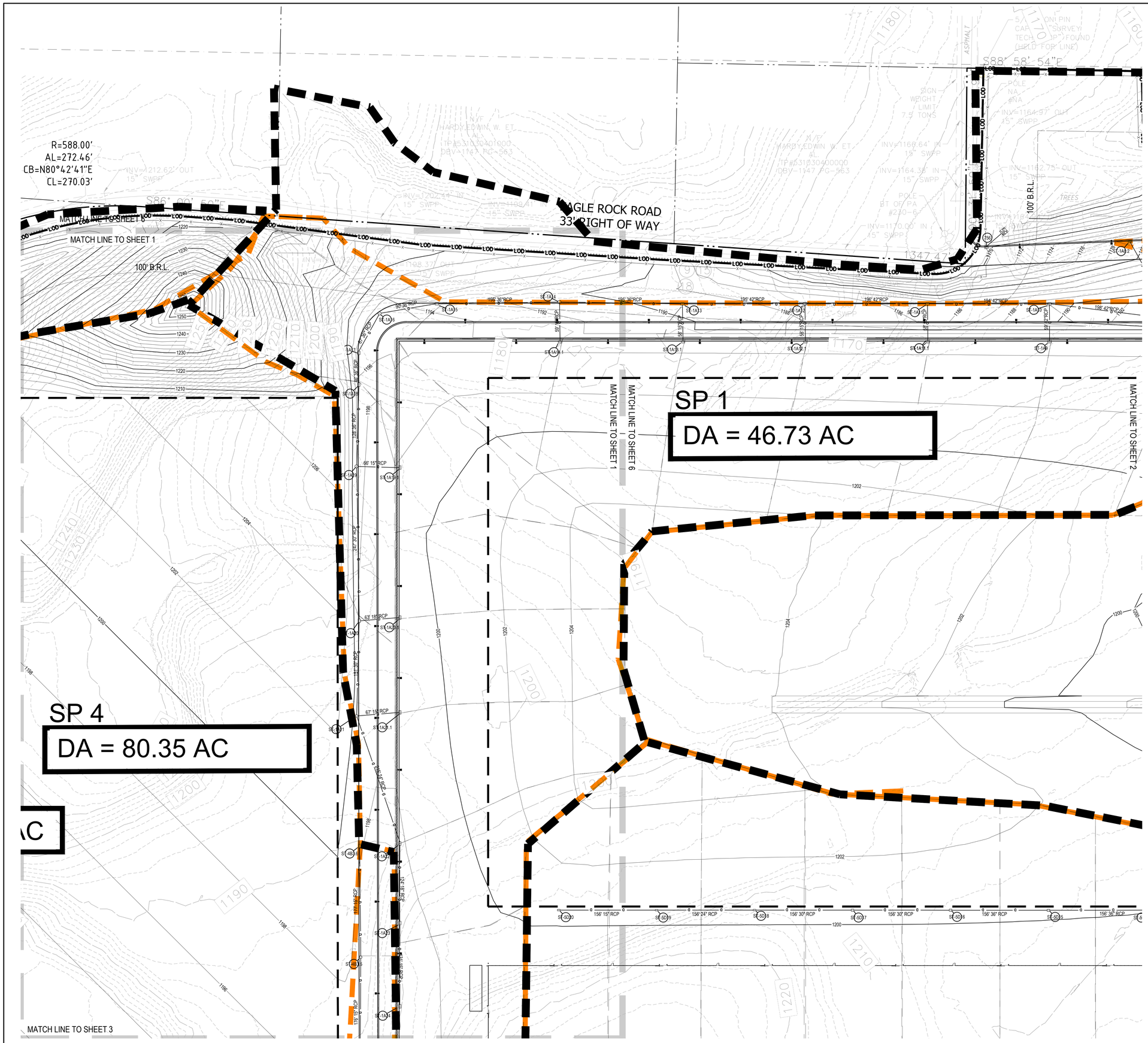
DRAWING INFORMATION

DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

OVERALL POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

SHEET NUMBER C600



LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- LIMIT OF DISTURBANCE
- PROPOSED CONCRETE PAVING
- PROPOSED HEAVY DUTY CONCRETE PAVING
- PROPOSED HEAVY DUTY ASPHALT PAVING
- EXISTING STORM DRAIN
- PROPOSED STORM DRAIN
- EXISTING TREE LINE
- STORM DRAIN LABEL
- POINT OF DISCHARGE DRAINAGE AREA DIVIDE
- POND DRAINAGE AREA DIVIDE
- INLET DRAINAGE AREA DIVIDE
- GTA INFILTRATION TEST LOCATION
- POINT OF INVESTIGATION

Pond #	Avg Infiltration (in/hr)	Avg Test Bottom Elev.	Design Basin Elev.
1	1.591	1171.00	1168.00
2	3.323	1177.86	1180.00
3	3.300	1172.52	1159.00
4	5.518	1180.30	1173.00

INFILTRATION TEST LOCATIONS AT PROPOSED PCSM INFILTRATION PONDS ARE SHOWN HEREIN. REFER TO GEOTECHNICAL REPORT FOR COMPLETE INFILTRATION TEST AND SOIL BORING LOCATIONS AND RESULTS.

SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSBURG, 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
GEORGE J. HARTMAN III
ENGINEER
No. PE076453

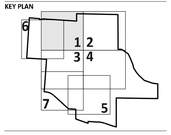
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE
No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
B	60% Review	06/26/26
C	90% Review	06/23/26
0	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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DRAWING INFORMATION

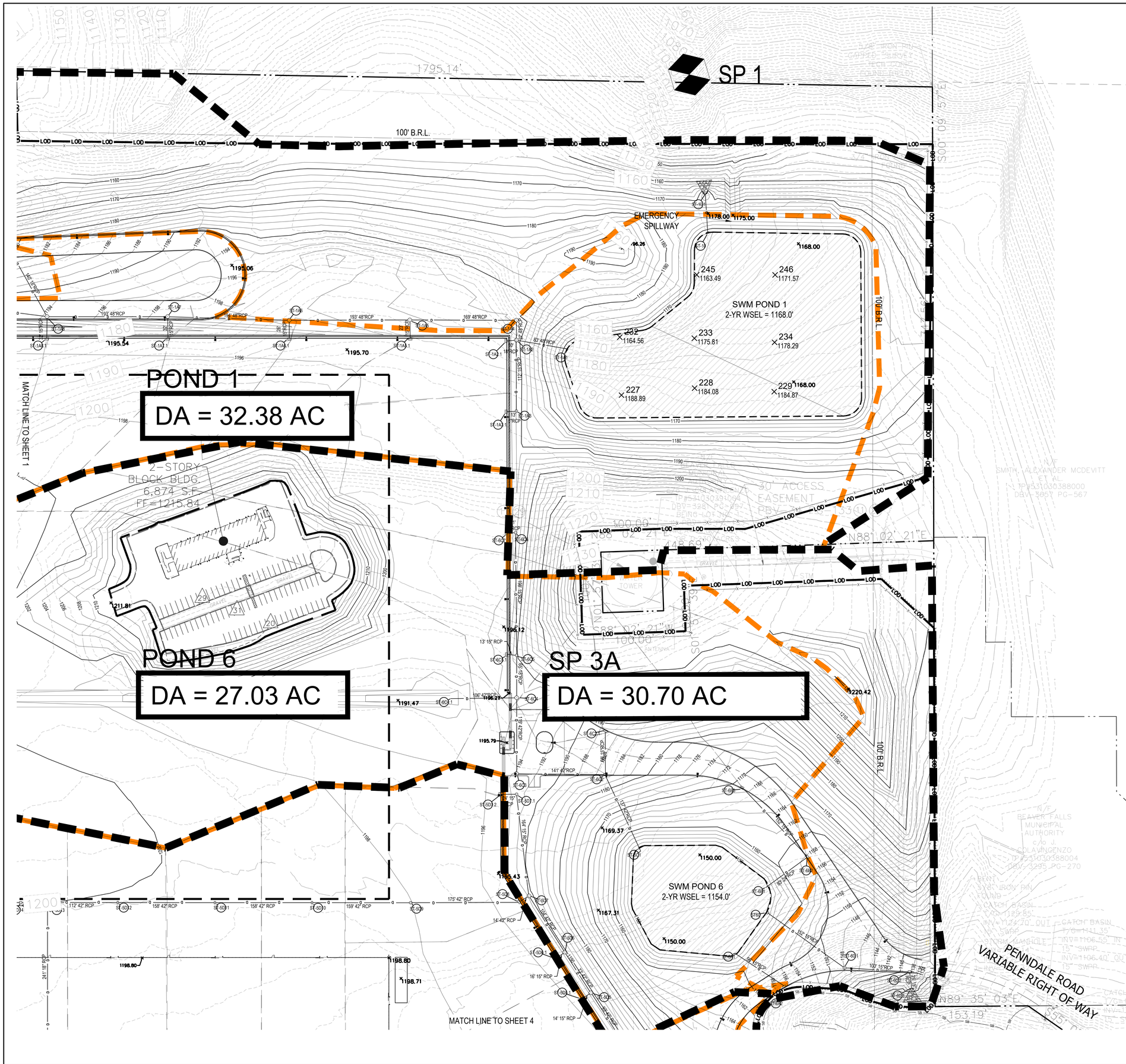
DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

SHEET NUMBER

C601


SP 1
SP 3A
POND 1
DA = 32.38 AC
POND 6
DA = 27.03 AC
SWM POND 1
2-YR WSEL = 1168.0'
SWM POND 6
2-YR WSEL = 1154.0'
EMERGENCY SPILLWAY
100' B.R.L.
2-STORY BLOCK BLDG. 6,874 S.F. FF=1215.84
MATCH LINE TO SHEET 1
MATCH LINE TO SHEET 4
PENNDALE ROAD
VARIABLE RIGHT OF WAY
BEAVER FALLS MUNICIPAL AUTHORITY
c/o J. SOLAVINCENZO
TP#43030388004
DBV. 3295 PG-270
SMITH, ALEXANDER MCDEVITT
TP#43030388000
DBV. 3057 PG-567
30' ACCESS EASEMENT
DBV. 328 PG. 281
DBV. 3301 PG. 567
BEING LOT 2
TP#43030391004
N/F
RENT
5/8" IRON PIN FOUND
CATCH BASIN
INV=1129.85
5" SWPP
INV=1124.70 OUT
CATCH BASIN
INV=1141.35'
INV=1106.55' IN
15" SWPP
INV=1106.40' OUT
5" SWPP
CATCH BASIN
INV=1141.35'
INV=1106.55' IN
15" SWPP
INV=1106.40' OUT
5" SWPP
N88° 02' 21"E 448.69'
N89° 35' 03"E 153.19'
S00° 09' 57"E
ANTENNA
TOWER
GRAVEL
1795.14'
1195.06
1195.54
1195.70
1196.12
1191.47
1195.79
1198.80
1198.71
1220.42
1169.37
1167.31
1198.43
1211.81
1168.00
1175.00
1178.00
245 1163.49
246 1171.57
232 1164.56
233 1175.81
234 1178.29
227 1188.89
228 1184.08
229 1184.87
150.00
150.00
193' 48"RCP
169' 48"RCP
80' 48"RCP
112' 42" RCP
158' 42" RCP
159' 42" RCP
175' 42" RCP
141' 42" RCP
14' 42" RCP
13' 15" RCP
103' 15"RCP
152' 15"RCP
16' 15" RCP
14' 15" RCP
241' 18" RCP
105' 42"RCP
ST-1A 1
ST-1A 2
ST-1A 3
ST-1A 4
ST-1A 5
ST-1A 6
ST-1A 7
ST-1A 8
ST-1A 9
ST-1A 10
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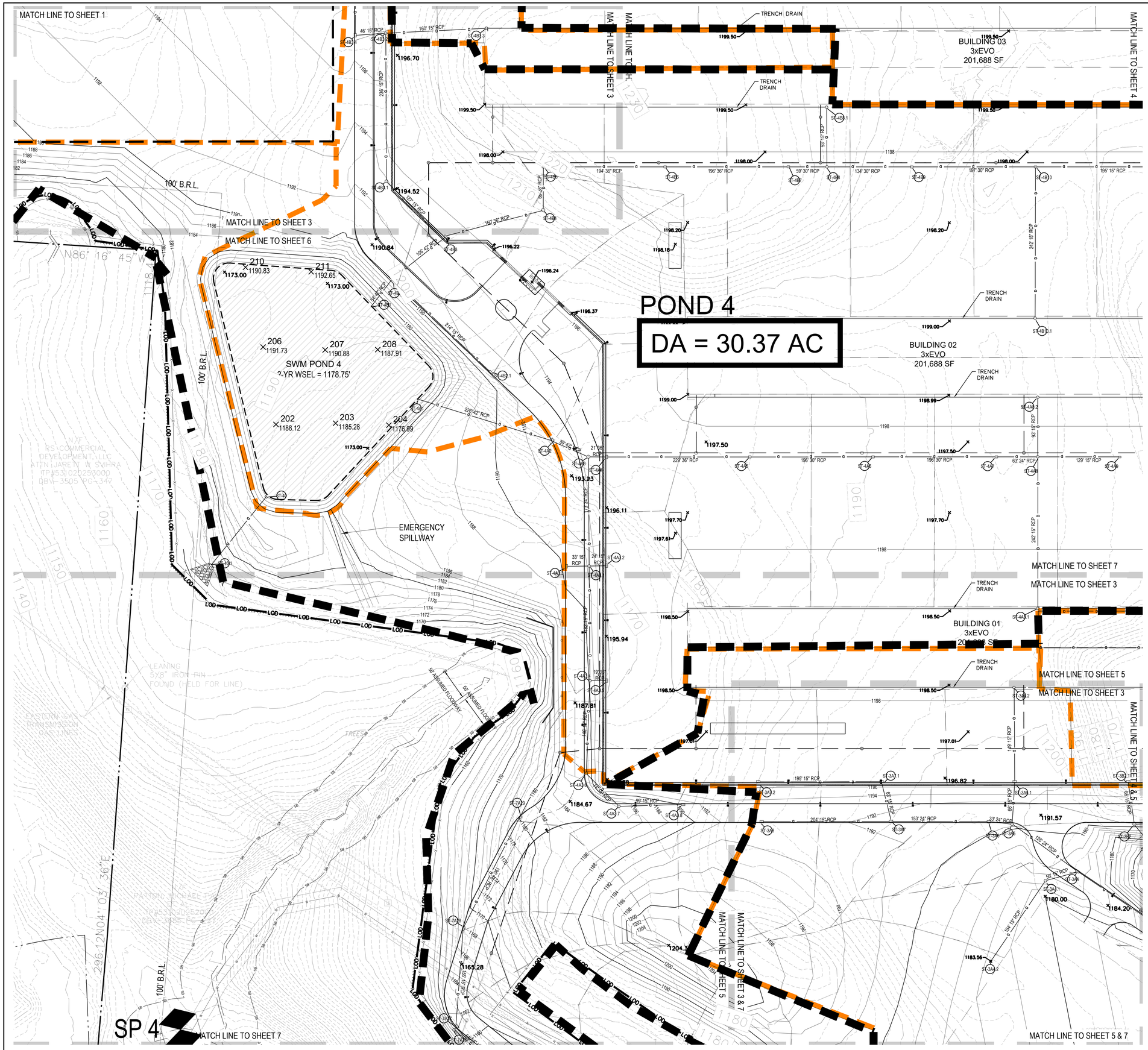
ST-1A 12
ST-1A 13
ST-1A 14
ST-1A 15
ST-1A 16
ST-1A 17
ST-1A 18
ST-1A 19
ST-1A 20
ST-1A



LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- LIMIT OF DISTURBANCE
- PROPOSED CONCRETE PAVING
- PROPOSED HEAVY DUTY CONCRETE PAVING
- PROPOSED HEAVY DUTY ASPHALT PAVING
- EXISTING STORM DRAIN
- PROPOSED STORM DRAIN
- EXISTING TREE LINE
- STORM DRAIN LABEL
- POINT OF DISCHARGE DRAINAGE AREA DIVIDE
- POND DRAINAGE AREA DIVIDE
- INLET DRAINAGE AREA DIVIDE
- TEST # EX. GROUND — GTA INFILTRATION TEST LOCATION
- POINT OF INVESTIGATION

Pond #	Avg Infiltration (in/hr)	Avg Test Bottom Elev.	Design Basin Elev.
1	1.591	1171.00	1168.00
2	3.323	1177.86	1180.00
3	3.300	1172.52	1159.00
4	5.518	1180.30	1173.00

INFILTRATION TEST LOCATIONS AT PROPOSED PCSM INFILTRATION PONDS ARE SHOWN HEREIN. REFER TO GEOTECHNICAL REPORT FOR COMPLETE INFILTRATION TEST AND SOIL BORING LOCATIONS AND RESULTS.

SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD., SUITE 200
MITCHELLVILLE, MD 20721
301.430.2000

STAMP

GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

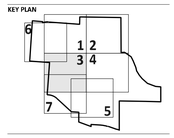
PROJECT INFORMATION

SWITCH PIT 01-03 EARLY WORKS

PRELIMINARY LAND DEVELOPMENT PLANS

BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
B	60% Review	06/08/26
C	90% Review	06/23/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

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DRAWING INFORMATION

DATE: JUNE 2026
PROJECT NUMBER: 25010482

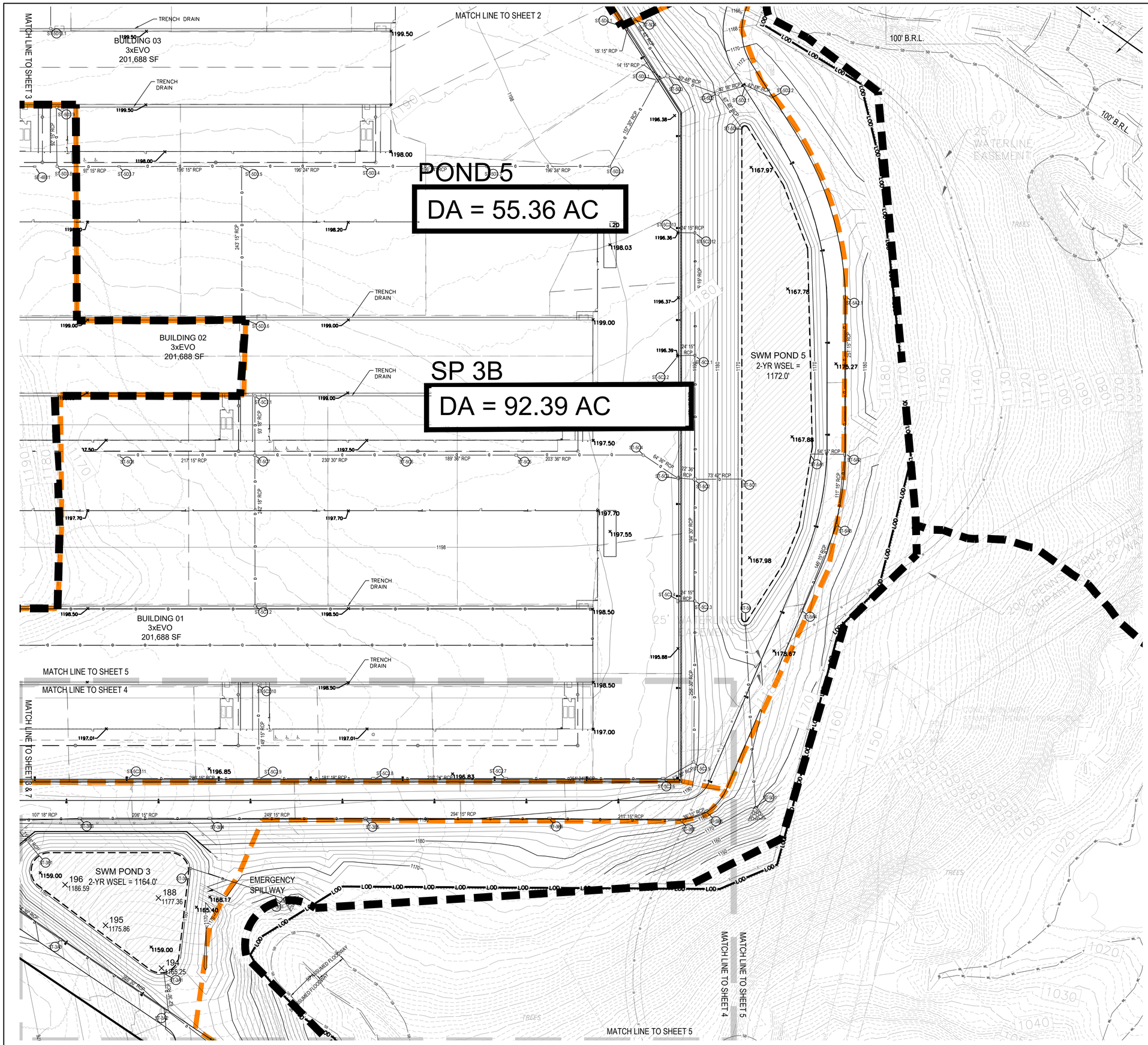
DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

SHEET TITLE

POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

SHEET NUMBER

C603



LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- LIMIT OF DISTURBANCE
- PROPOSED CONCRETE PAVING
- PROPOSED HEAVY DUTY CONCRETE PAVING
- PROPOSED HEAVY DUTY ASPHALT PAVING
- EXISTING STORM DRAIN
- PROPOSED STORM DRAIN
- EXISTING TREE LINE
- STORM DRAIN LABEL
- POINT OF DISCHARGE DRAINAGE AREA DIVIDE
- POND DRAINAGE AREA DIVIDE
- INLET DRAINAGE AREA DIVIDE
- TEST # / EX. GROUND — GTA INFILTRATION TEST LOCATION
- POINT OF INVESTIGATION

Pond #	Avg Infiltration (in/hr)	Avg Test Bottom Elev.	Design Basin Elev.
1	1.591	1171.00	1168.00
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4	5.518	1180.30	1173.00

INFILTRATION TEST LOCATIONS AT PROPOSED PCSM INFILTRATION PONDS ARE SHOWN HEREIN. REFER TO GEOTECHNICAL REPORT FOR COMPLETE INFILTRATION TEST AND SOIL BORING LOCATIONS AND RESULTS.

SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME
ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITHCELLVILLE, 20721
301.430.2000

STAMP

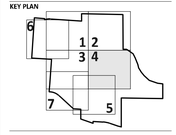
COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076453
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	90% Review	05/26/26
B	90% Review	05/28/26
C	90% Review	06/23/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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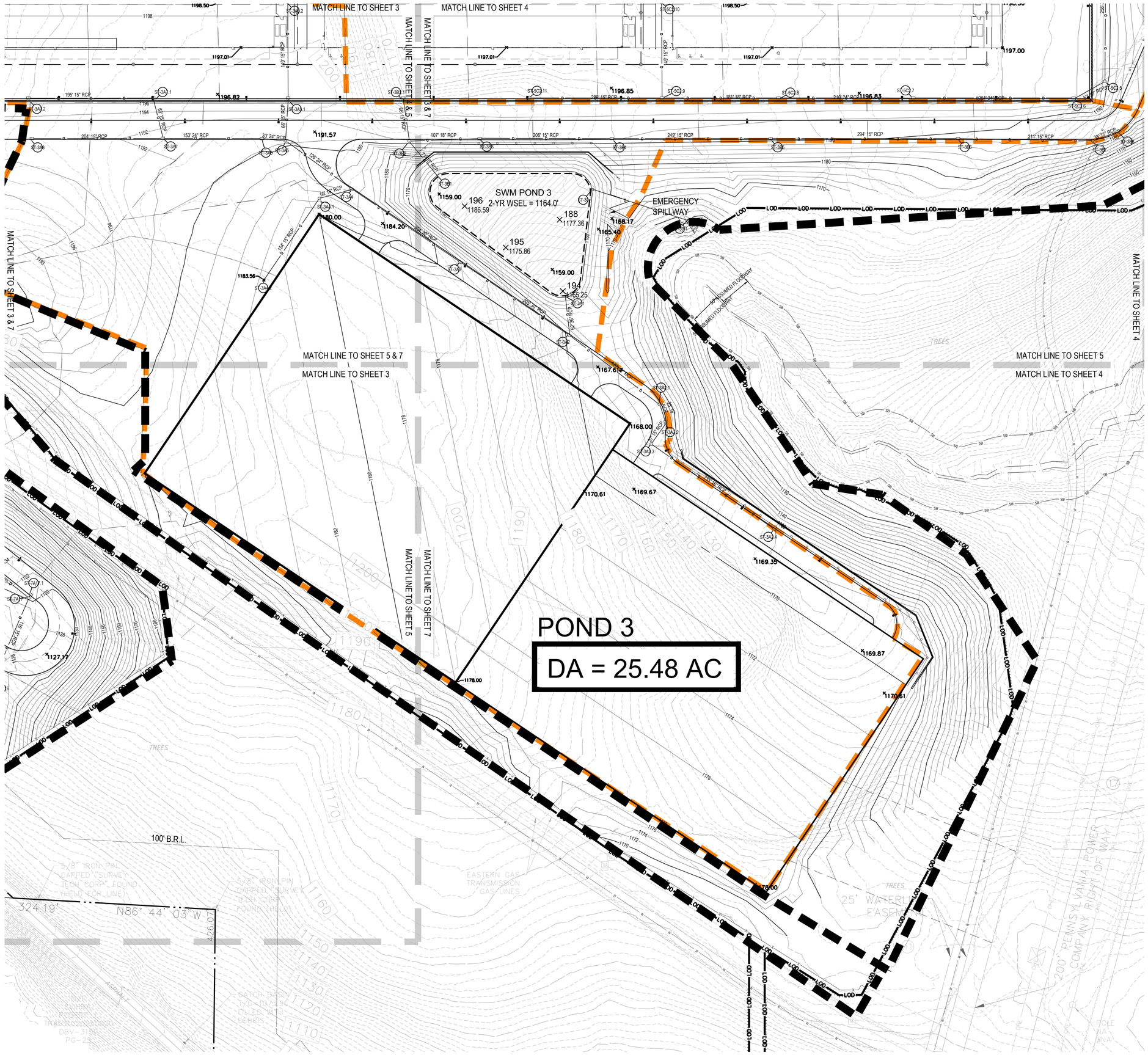
DRAWING INFORMATION

DATE: JUNE 2026
PROJECT NUMBER: 25010482

DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

SHEET TITLE
POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

SHEET NUMBER
C604



LEGEND

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- POND DRAINAGE AREA DIVIDE
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- GTA INFILTRATION TEST LOCATION
- POINT OF INVESTIGATION

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DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITHCELLVILLE, MD 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076453

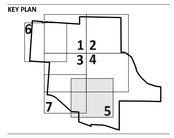
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/06/26
B	60% Review	06/09/26
C	90% Review	06/23/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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DRAWING INFORMATION

DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

SHEET NUMBER

C605

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

SP 2

DA = 5.40 AC

SP 4

DA = 80.35 AC

POND 2

DA = 26.86 AC

SWM POND 2
2-YR WSEL = 1177.0'

EMERGENCY SPILLWAY

MATCH LINE TO SHEET 1

MATCH LINE TO SHEET 3

MATCH LINE TO SHEET 3

MATCH LINE TO SHEET 1

100' B.R.L.

N/F SHANSKY, MARLANA J. TP#53102026300 DBV-1653 PG-190

N/F PETERS, BRUCE TP#53102026300 DBV-3308 PG-352

3/4" IRON PIPE FOUND

TREES

LEGEND

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- PROPOSED HEAVY DUTY ASPHALT PAVING
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SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITHCELVILLE, MD 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076453

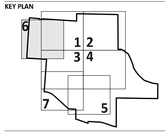
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	50% Review	05/26/26
B	60% Review	06/08/26
C	90% Review	06/23/26
0	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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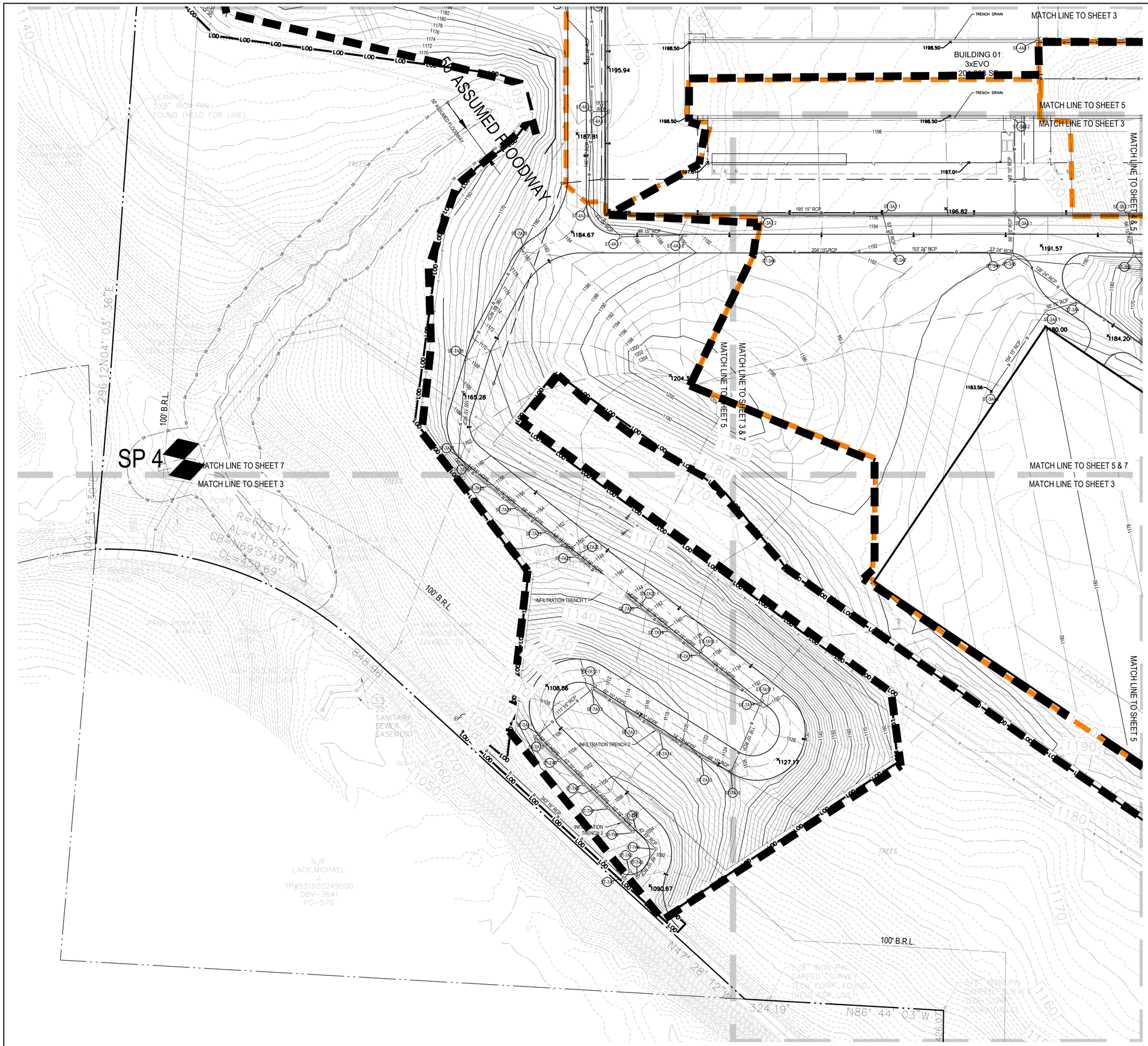
DRAWING INFORMATION

DATE: JUNE 2026
PROJECT NUMBER: 25010482

DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

SHEET TITLE
POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

SHEET NUMBER
C606



LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- LIMIT OF DISTURBANCE
- PROPOSED CONCRETE PAVING
- PROPOSED HEAVY DUTY CONCRETE PAVING
- PROPOSED HEAVY DUTY ASPHALT PAVING
- EXISTING STORM DRAIN
- PROPOSED STORM DRAIN
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- POINT OF DISCHARGE DRAINAGE AREA DIVIDE
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- GTA INFILTRATION TEST LOCATION
- POINT OF INVESTIGATION

Pond #	Avg Infiltration (in/hr)	Avg Test Bottom Elev.	Design Basin Elev.
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SCALE: 1" = 60'

0 60 120 180 300

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME
ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLVILLE, MD 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076453

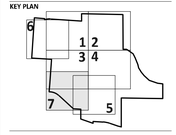
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



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A	90% Review	05/26/26
B	90% Review	06/08/26
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0	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

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DRAWING INFORMATION

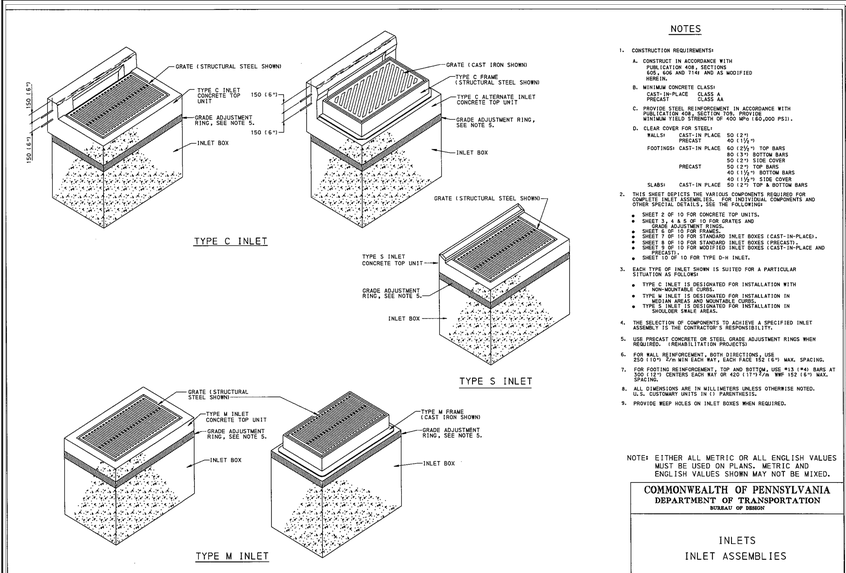
DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE

POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

SHEET NUMBER

C607



NOTES

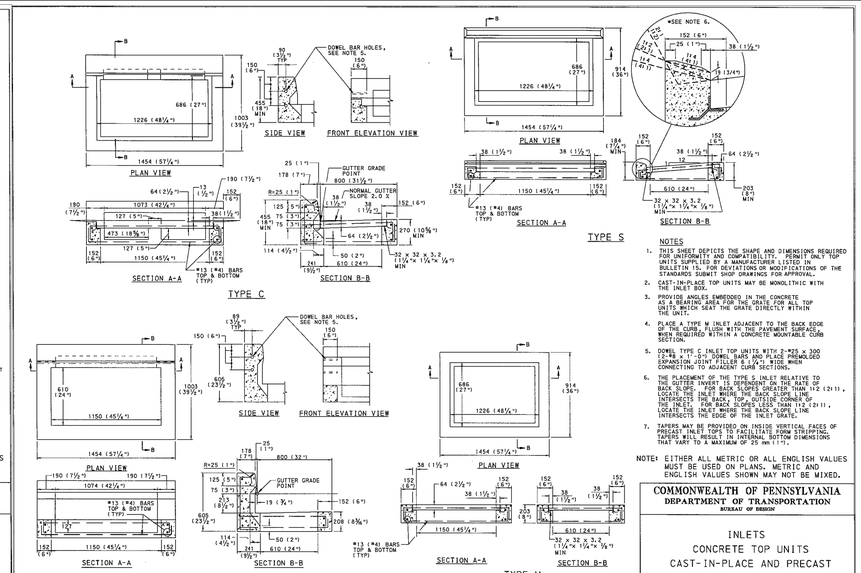
1. CONSTRUCTION REQUIREMENTS:
   - A. CONSTRUCT IN ACCORDANCE WITH PUBLICATION 408, SECTIONS 605, 606 AND 7140 AND AS MODIFIED HEREIN.
   - B. MINIMUM CONCRETE CLASS: CAST-IN-PLACE CLASS A PRECAST CLASS 6A
   - C. PROVIDE STEEL REINFORCEMENT IN ACCORDANCE WITH PUBLICATION 408, SECTION 1101, PROVIDE MINIMUM YIELD STRENGTH OF 400 MPa (60,000 PSI).
   - D. CLEAR COVER FOR STEEL:
     - WALLS: CAST-IN-PLACE 50 (2")
       PRECAST 40 (1½")
     - FOOTINGS: CAST-IN PLACE 60 (2½") TOP BARS
       80 (3¼") BOTTOM BARS
       PRECAST 50 (2") SIDE COVER
       50 (2") TOP BARS
       40 (1½") BOTTOM BARS
     - SLABS: CAST-IN PLACE 40 (1½") SIDE COVER
       50 (2") TOP & BOTTOM BARS
2. THIS SHEET DEPICTS THE VARIOUS COMPONENTS REQUIRED FOR COMPLETE INLET ASSEMBLIES. FOR INDIVIDUAL COMPONENTS AND OTHER SPECIAL DETAILS, SEE THE FOLLOWING:
   - SHEET 2 OF 10 FOR CONCRETE TOP UNITS.
   - SHEET 3 & 5 OF 10 FOR GRATES AND ACCESSORIES.
   - SHEET 5 OF 10 FOR FRAMES.
   - SHEET 7 OF 10 FOR STANDARD INLET BOXES (CAST-IN-PLACE).
   - SHEET 8 OF 10 FOR STANDARD INLET BOXES (PRECAST).
   - SHEET 9 OF 10 FOR MODIFIED INLET BOXES (CAST-IN-PLACE AND PRECAST).
   - SHEET 10 OF 10 FOR TYPE D-H INLET.
3. EACH TYPE OF INLET SHOWN IS SUITED FOR A PARTICULAR SITUATION AS FOLLOWS:
   - TYPE C INLET IS DESIGNATED FOR INSTALLATION WITH CURB AND GUTTER.
   - TYPE M INLET IS DESIGNATED FOR INSTALLATION IN MEDIAN AREAS AND MOUNTABLE CURBS.
   - TYPE S INLET IS DESIGNATED FOR INSTALLATION IN SHOULDER SWALE AREAS.
4. THE SELECTION OF COMPONENTS TO ACHIEVE A SPECIFIED INLET ASSEMBLY IS THE CONTRACTOR'S RESPONSIBILITY.
5. USE PRECAST CONCRETE OR STEEL GRADE ADJUSTMENT RINGS WHEN REQUIRED. (REHABILITATION PROJECTS)
6. FOR WALL REINFORCEMENT, BOTH DIRECTIONS, USE 250 mm²/m (0.12 in²/ft) EACH WAY, EACH FACE (6") MAX. SPACING.
7. FOR FOOTING REINFORCEMENT: TOP AND BOTTOM, USE #13 (#4) BARS AT 300 (12") CENTERS EACH WAY OR 420 mm²/m (0.20 in²/ft) WWF 152 (6") MAX SPA.
8. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. (U.S. CUSTOMARY UNITS IN (") PARENTHESIS).
9. PROVIDE WEEP HOLES ON INLET BOXES WHEN REQUIRED.

NOTE: EITHER ALL METRIC OR ALL ENGLISH VALUES MUST BE USED ON PLANS. METRIC AND ENGLISH VALUES SHOWN MAY NOT BE MIXED.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF DESIGN

INLETS
INLET ASSEMBLIES

RECOMMENDED APR. 16, 2001 — DIRECTOR, BUREAU OF DESIGN
RECOMMENDED APR. 16, 2001 — CHIEF ENGINEER
SHT 1 OF 10
RC-34M



NOTES

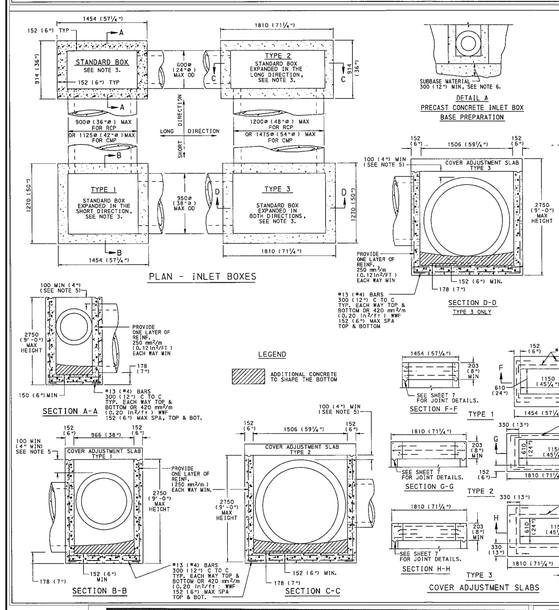
1. THIS SHEET DEPICTS THE SHAPE AND DIMENSIONS REQUIRED FOR UNIFORMITY AND COMPATIBILITY. PERMIT ONLY TOP UNITS SUPPLIED BY A MANUFACTURER LISTED IN BULLETIN 15. FOR DEVIATIONS OR MODIFICATIONS OF THE STANDARDS, SUBMIT SHOP DRAWINGS FOR APPROVAL.
2. CAST-IN-PLACE TOP UNITS MAY BE MONOLITHIC WITH THE INLET BOX.
3. PROVIDE ANGLES EMBEDDED IN THE CONCRETE TOP UNITS AT THE CURB LINE OF PRECAST TOP UNITS WIDTH SEAT THE GRATE DIRECTLY WITHIN THE UNIT.
4. PLACE A TYPE M INLET ADJACENT TO THE BACK EDGE OF THE CURB, FLUSH WITH THE PAVEMENT SURFACE, WHEN REQUIRED WITHIN A CONCRETE MOUNTABLE CURB SECTION.
5. DOWEL TYPE C INLET TOP UNITS WITH 2-#25 x 300 (2-#8 x 1'-0") DOWEL BARS AND PLACE PREMOLDED EXPANSION JOINT FILLER 6 (¼") WIDE WHEN CONNECTING TO ADJACENT CURB SECTIONS.
6. THE PLACEMENT OF THE TYPE S INLET RELATIVE TO THE GUTTER INVERT IS DEPENDENT ON THE RATE OF BACK SLOPE. FOR BACK SLOPES GREATER THAN 1:2 (2:1), LOCATE THE INLET WHERE THE BACK SLOPE LINE INTERSECTS THE BACK, TOP, OUTSIDE CORNER OF THE INLET. FOR BACK SLOPES LESS THAN 1:2 (2:1), LOCATE THE INLET WHERE THE BACK SLOPE LINE INTERSECTS THE EDGE OF THE INLET GRATE.
7. TAPERS MAY BE PROVIDED ON INSIDE VERTICAL FACES OF PRECAST INLET TOPS TO FACILITATE FORM STRIPPING. TAPERS WILL RESULT IN INTERNAL BOTTOM DIMENSIONS THAT VARY TO A MAXIMUM OF 25 mm (1").

NOTE: EITHER ALL METRIC OR ALL ENGLISH VALUES MUST BE USED ON PLANS. METRIC AND ENGLISH VALUES SHOWN MAY NOT BE MIXED.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF DESIGN

INLETS
CONCRETE TOP UNITS
CAST-IN-PLACE AND PRECAST

RECOMMENDED APR. 16, 2001 — DIRECTOR, BUREAU OF DESIGN
RECOMMENDED APR. 16, 2001 — CHIEF ENGINEER
SHT 2 OF 10
RC-34M



NOTES

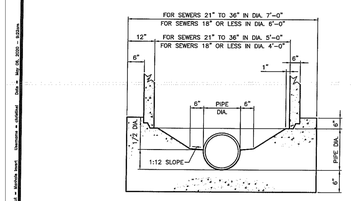
1. CONSTRUCT INLET BOXES IN ACCORDANCE WITH THE REQUIREMENTS OF PUBLICATION 408, SECTION 710.
2. PRECAST INLET BOXES SUPPLIED BY A MANUFACTURER LISTED IN BULLETIN 15, USE CLASS 6A CEMENT CONC FOR PRECAST BOXES. FOR DEVIATIONS OR MODIFICATIONS OF THE STANDARDS, SUBMIT SHOP DRAWINGS FOR APPROVAL.
3. PROVIDE STANDARD INLET BOXES AND COVER ADJUSTMENT SLABS WITH A 610 x 1150 (24"x 46") OPENING TO ACCOMMODATE STANDARD TOP COMPONENTS.
4. FOR INLETS THAT DEVIATE FROM THE STANDARD SUBMIT SPECIAL DETAILS AND DESIGN FOR THE INLET WALLS AND BASE TO THE BUREAU OF CONSTRUCTION FOR REVIEW AND APPROVAL. CONSTRUCT INLETS THAT EXCEED 1500 (5') IN HEIGHT WITH STEPS SIMILAR TO MANHOLES (SEE RC-752M). DESIGN FOR INLETS OTHER THAN STANDARD BOXES SHALL BE REINFORCED CONCRETE BASED ON PUL 33 (MS 25) LOADING AND IN ACCORDANCE WITH PUBLICATION 408M.
5. LOCATE PIPE OR PIPES, AS INDICATED, WITH THE INLET BOTTOM SHAPED TO CHANNEL THE FLOW TOWARD THE OUTLET PIPE. WHEN PROJECT CONDITIONS REQUIRE PIPE BLOCKOUTS TO BE FORMED WITHIN 100 (4") FROM THE TOP OF THE INLET BOX, PROVIDE AN ADDITIONAL #10 (#3) REINFORCEMENT BAR AROUND THE PERIMETER OF THE BLOCKOUT. AFTER PIPE HAS BEEN PLACED IN THE INLET FACE, REMOVE ANY VISIBLE PORTION OF THE BAR, IF REQUIRED DURING INSTALLATION AND PRIOR TO JOINTING THE PIPE TO THE INLET, IF CONCRETE HAS BEEN REMOVED FROM THE INLET, REPAIR THE BLOCKOUT AND "FILLOUT" WITH THE INLET BASE. LIMIT PIPE BLOCKOUT OR WALL TO 25 mm (1").
6. PLACE SUBBASE MATERIAL MEETING THE REQUIREMENTS OF PUBLICATION 408, SECTION 350.2, IN LAYERS 150 (6") THICK, COMPACTED TO A DENSITY SATISFACTORY TO THE ENGINEER AND INCIDENTAL TO THE INLET PAY ITEM.
7. FOR PIPE DIAMETERS LARGER THAN 1200 (48") RCP OR 1350 (54") CMP, USE A MODIFIED INLET BOX, SHEET 9.
8. PROVIDE CONSTRUCTION JOINTS AS REQUIRED FOR INLET BOXES THAT ARE NOT MONOLITHIC. SEE DETAILS A & B SHEET 7.
9. TAPERS MAY BE PROVIDED ON VERTICAL FACES OF PRECAST INLET BOX BASE UNITS TO FACILITATE FORM STRIPPING. TAPERS WILL RESULT IN INTERNAL BOTTOM DIMENSIONS THAT VARY TO A MAXIMUM OF 25 mm (1").
10. PROVIDE SUITABLE LIFTING DEVICES FOR HANDLING AND INSTALLATION. GALVANIZE METAL DEVICES AS SPECIFIED IN PUB. 408 SECTION 1105. TAPERS MAY BE PROVIDED ON INSIDE VERTICAL FACES OF PRECAST INLET BOX RISER UNITS TO FACILITATE FORM STRIPPING. TAPERS WILL RESULT IN INTERNAL BOTTOM DIMENSIONS THAT VARY TO A MAXIMUM OF 25 mm (1").

NOTE: EITHER ALL METRIC OR ALL ENGLISH VALUES MUST BE USED ON PLANS. METRIC AND ENGLISH VALUES SHOWN MAY NOT BE MIXED.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF DESIGN

INLETS
STANDARD INLET BOXES
(PRECAST)

RECOMMENDED APR. 16, 2001 — DIRECTOR, BUREAU OF DESIGN
RECOMMENDED APR. 16, 2001 — CHIEF ENGINEER
SHT 8 OF 10
RC-34M



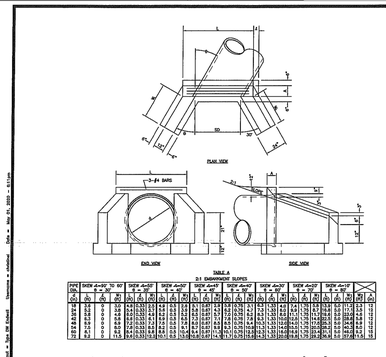
NOTES:
1. INVERTS SHALL BE IMPLEMENTED IN ALL SANITARY SEWER MANHOLES.
2. INVERTS SHALL BE IMPLEMENTED IN ALL STORM SEWER MANHOLES EXCEPT FOR THOSE WHICH REQUIRE A TWO FOOT SUMP AS STATED ON THE PLANS.

MANHOLE INVERT
N. T. S.

LENNON, SMITH, SOULERET ENGINEERING INC. 846 Fourth Avenue Coraopolis, PA 15108 (412)262-2830 Fax(412)264-1200 E-mail: info@lsse.com

DATE: April 2020
FILE NAME: ManholeInvert.dwg
SCALE: N.T.S.

Big Beaver Borough
Manhole Invert Detail
SS-05



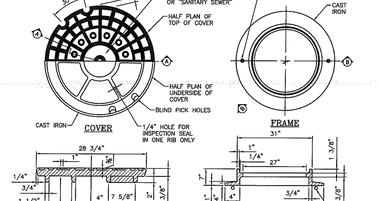
NOTES:
1. CONSTRUCT ENDWALL IN ACCORDANCE WITH THE REQUIREMENTS OF PENNDOT PUBLICATION 408, SECTION 605, FOR CAST-IN-PLACE UNITS AND SECTION 714 FOR PRECAST CONCRETE CONCRETE UNITS.
2. FURNISH AND INSTALL ENDWALLS IN ACCORDANCE WITH PENNDOT PUBLICATION 72M STANDARDS FOR ROADWAY CONSTRUCTION, LATEST EDITION – RC-31M.
3. ONLY PRECAST ENDWALLS SUPPLIED BY MANUFACTURER LISTED IN PENNDOT BULLETIN 15 WILL BE PERMITTED.
4. USE CLASS A CEMENT CONCRETE OR BETTER.
5. CHAMFER EXPOSED EDGES ONE INCH.
6. FITTINGS SHALL BE DOWELED TO PIPE.
7. SEE TABLE A BELOW FOR DIMENSIONS NOT INDICATED.

TYPE 'DW' ENDWALL
N. T. S.

LENNON, SMITH, SOULERET ENGINEERING INC. 846 Fourth Avenue Coraopolis, PA 15108 (412)262-2830 Fax(412)264-1200 E-mail: info@lsse.com

DATE: April 2020
FILE NAME: type DW Endwall.dwg
SCALE: N.T.S.

Big Beaver Borough
Type 'DW' Endwall Detail
SS-02

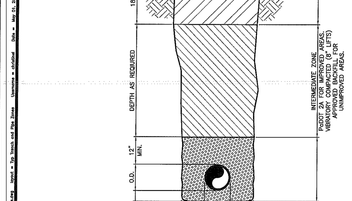


TYPICAL STORM AND SANITARY
MANHOLE FRAME AND COVER
N. T. S.

LENNON, SMITH, SOULERET ENGINEERING INC. 846 Fourth Avenue Coraopolis, PA 15108 (412)262-2830 Fax(412)264-1200 E-mail: info@lsse.com

DATE: April 2020
FILE NAME: Manhole Frame and Cover.dwg
SCALE: N.T.S.

Big Beaver Borough
Typical Storm And Sanitary Manhole Frame And Cover Detail
SS-07

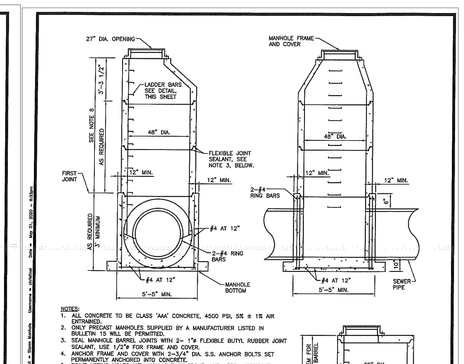


TYPICAL
TRENCH AND PIPE ZONES
N. T. S.

LENNON, SMITH, SOULERET ENGINEERING INC. 846 Fourth Avenue Coraopolis, PA 15108 (412)262-2830 Fax(412)264-1200 E-mail: info@lsse.com

DATE: April 2020
FILE NAME: Typ Trench and Pipe Zones.dwg
SCALE: N.T.S.

Big Beaver Borough
Typical Trench and Pipe Zones
SS-01



NOTES:
1. ALL CONCRETE TO BE CLASS "AA" CONCRETE, 4500 PSI, 5% ± 1% AIR ENTRAINED.
2. ONLY PRECAST MANHOLES SUPPLIED BY A MANUFACTURER LISTED IN BULLETIN 15 WILL BE PERMITTED.
3. SEAL MANHOLE BARREL JOINTS WITH 2- 1"ø FLEXIBLE BUTYL RUBBER JOINT SEALANT, USE 1/2"ø FOR FRAME AND COVER.
4. ANCHOR FRAME AND COVER WITH 2-3/4" DIA. S.S. ANCHOR BOLTS SET PERMANENTLY ANCHORED INTO CONCRETE.
5. POINT LIFTING HOLES WITH NON-SHRINK GROUT, AND LEFT WATERTIGHT, NEAT AND SMOOTH.
6. ADJUSTMENT OF FRAME AND COVER TO FINISHED GRADE USING PRECAST GRADE RINGS SHALL NOT EXCEED SIX INCHES (6").
7. CONFORM PRECAST SECTIONS TO ASTM C-478 AS REVISED.
8. IF THIS DIMENSION IS LESS THAN 3'-3" USE PRECAST SLAB TOP DESIGNED TO MEET LOAD CONDITIONS (H-20 MIN).
9. COAT EXTERIOR OF ALL MANHOLE BARREL SECTIONS WITH APPROVED BITUMINOUS COATING.
10. CAST LADDER BARS INTO BARREL SECTIONS AND SHALL CONFORM TO ASTM A-615, AS REVISED.
11. WHERE MANHOLES ARE INSTALLED IN IMPROVED AREAS, THE ENTIRE EXCAVATED AREA SHALL BE BACKFILLED WITH PENNDOT 2A OR AASHTO 57 CRUSHED AGGREGATE.
12. WHERE MANHOLES ARE CONSTRUCTED IN UNIMPROVED AREAS, BACKFILL THE ENTIRE EXCAVATED AREA WITH PENNDOT 2A OR AASHTO 57 CRUSHED AGGREGATE FROM THE BOTTOM OF THE EXCAVATED AREA TO 12 INCHES ABOVE THE HIGHEST PIPE ENTERING THE MANHOLE. PROVIDE FLANGED BASE.

CAST-IN PLACE OR PRECAST CONCRETE
STORM MANHOLE
N. T. S.

LENNON, SMITH, SOULERET ENGINEERING INC. 846 Fourth Avenue Coraopolis, PA 15108 (412)262-2830 Fax(412)264-1200 E-mail: info@lsse.com

DATE: April 2020
FILE NAME: Storm Manhole.dwg
SCALE: N.T.S.

Big Beaver Borough
Storm Manhole Detail
SS-09

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSBURG, 20721
301.430.2000

STAMP

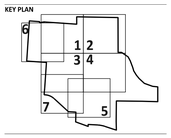
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 074451

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
B	60% Review	06/26/26
C	90% Review	06/29/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

THIS DOCUMENT CONSTITUTES THE CONFIDENTIAL AND PROPRIETARY INFORMATION OF SWITCH, NOT TO BE SHARED, MODIFIED, OR DUPLICATED WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF SWITCH.

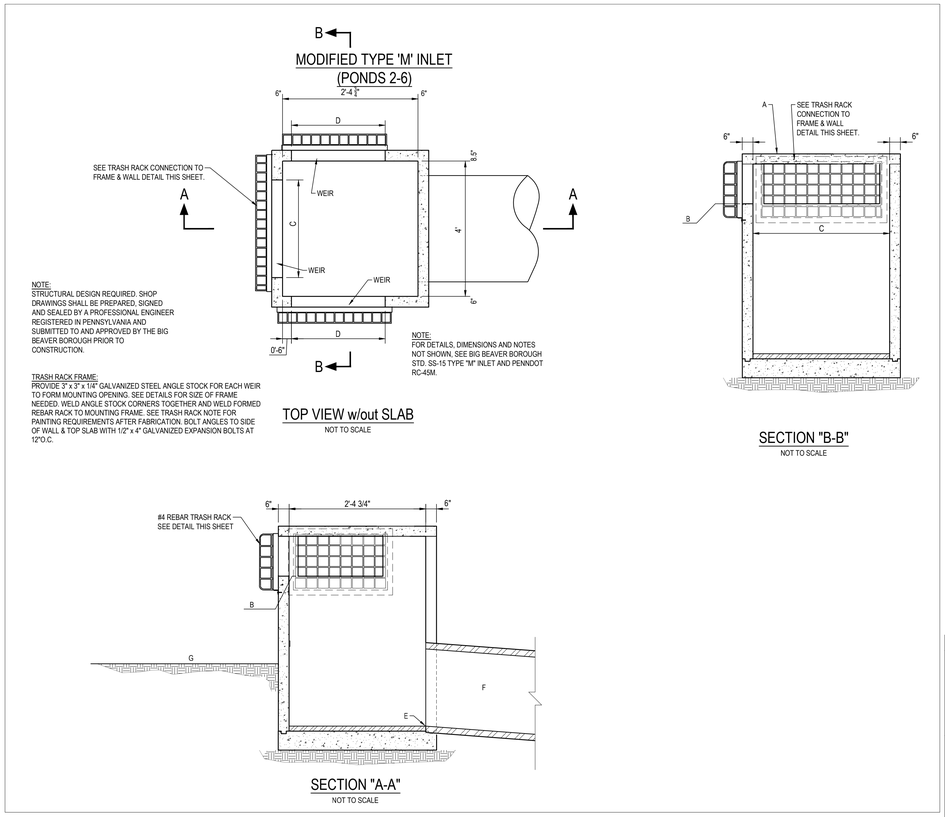
DRAWING INFORMATION

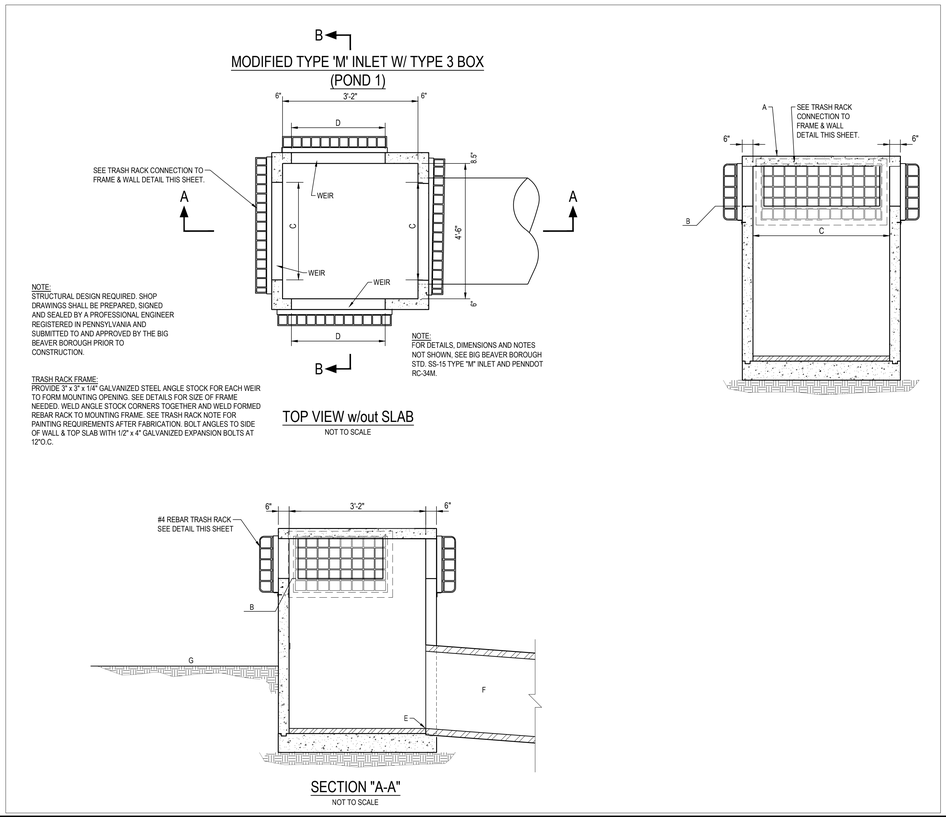
DATE:	JUNE 2026
PROJECT NUMBER:	25010482
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

SHEET TITLE
POST CONSTRUCTION STORMWATER MANAGEMENT DETAILS

SHEET NUMBER
C608

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83





POND OUTFALL STRUCTURES

	DESCRIPTION	POND 1	POND 2	POND 3	POND 4	POND 5	POND 6
A	STRUCTURE TOP EL. (FT)	1173.9	1184.2	1163.8	1178.4	1172.8	1154.8
B	WEIR EL. (FT)	1169.0	1181.25	1161.25	1174.25	1170.50	1152.25
C	FRONT/BACK WEIR WIDTH (FT)	4	3	2	3	1	1
D	SIDE WEIR WIDTH (FT)	2	–	–	2	–	–
E	INVERT EL. (FT)	1168.0	1180.0	1159.0	1173.0	1168.0	1150.0
F	OUTLET PIPE SIZE (IN)	48	30	36	42	36	36
G	POND BOTTOM EL. (FT)	1168.0	1180.0	1159.0	1173.0	1168.0	1150.0

LONG–TERM OPERATION AND MAINTENANCE SCHEDULE

§102.8(f)(10)

1. UNTIL THE SITE IS STABILIZED AND DURING THE CONSTRUCTION ACTIVITIES, ALL BMPs MUST BE MAINTAINED PROPERLY BY CONTRACTOR. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL BMPs AS SPECIFIED. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN–OUT, REPAIR, REPLACEMENT, RE–GRADING, RE–SEEDING, RE–MULCHING AND RE–NETTING MUST BE PERFORMED IMMEDIATELY AND IN ACCORDANCE WITH THESE PROCEDURES, PLANS, AND DETAILS. ANY AREA DISTURBED DURING MAINTENANCE MUST BE STABILIZED IMMEDIATELY IN ACCORDANCE WITH THE GENERAL CONSERVATION NOTES AND SPECIFICATIONS.
2. ALL SITE INSPECTIONS MUST BE DOCUMENTED IN AN INSPECTION LOG KEPT FOR THIS PURPOSE INDICATING THE COMPLIANCE ACTIONS AND THE DATE, TIME AND NAME OF THE PERSON CONDUCTION THE INSPECTION. THE INSPECTION LOG MUST BE KEPT ON SITE AT ALL TIMES AND MADE AVAILABLE TO THE DISTRICT UPON REQUEST.
3. SHOULD ON–SITE EROSION OCCUR FROM THE LANDSCAPED AREA, THE SOURCE OF EROSION SHALL BE IMMEDIATELY STABILIZED AND THE INLETS AND STORMWATER PIPING SHALL BE CHECKED FOR ACCUMULATION AND CLEARED IF ACCUMULATION OF SEDIMENT EXISTS.
4. HEAVY CONSTRUCTION VEHICLES SHALL NOT BE PARKED ON OR DRIVEN OVER BMP FACILITIES AND CARE SHOULD BE TAKEN TO AVOID EXCESSIVE COMPACTION BY EQUIPMENT, INCLUDING MOWERS.
5. INSPECT INFILTRATION FACILITIES AFTER RUNOFF EVENTS AND MAKE SURE THAT RUNOFF DRAINS DOWN WITHIN 72 HOURS. INSPECT FOR ACCUMULATION OF SEDIMENT, DAMAGE TO OUTLET CONTROL STRUCTURES, SIGNS OF WATER CONTAMINATION/SPILLS, AND SIGNS OF EROSION
6. REMOVE ACCUMULATED SEDIMENT FROM THE FACILITIES AS REQUIRED. RESTORE ORIGINAL CROSS–SECTION IF NECESSARY. PROPERLY DISPOSE OF SEDIMENT AS SPECIFIED. FOR ABOVE–GROUND INFILTRATION FACILITIES, REMOVE AND REPLACE SOIL MEDIA LAYER AS NECESSARY IF FACILITY DEWATERING TIME EXCEEDS 72 HOURS.

SWITCH, LTD IS RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE STORMWATER MANAGEMENT BMPs AS DESCRIBED HEREIN.

BMP No.	DESCRIPTION	SCHEDULE	INSPECTION TASK	MAINTENANCE	FAILURE INDICATORS
STORM DRAINAGE SYSTEM	INLETS, MANHOLES AND STORMWATER PIPING.	EVERY 3 MONTHS	•INSPECT INLETS, MANHOLES, AND STORMWATER PIPING	CLEAR SEDIMENT AND DEBRIS FROM ALL ON–SITE INLETS, MANHOLE, AND STORMWATER PIPING.	EXCESSIVE PONDING AROUND THE INLET GRATES COULD INDICATE THAT THERE MAYBE SEDIMENT/DEBRIS BUILDUP
BMP 6.4.2 INFILTRATION BASIN	AN INFILTRATION BASIN IS A SHALLOW IMPOUNDMENT THAT STORES AND INFILTRATES RUNOFF OVER A LEVEL, UNCOMPACTED, (PREFERABLY UNDISTURBED AREA) WITH RELATIVELY PERMEABLE SOILS.	AFTER EACH STORM >.1"	•INSPECT WATER DRAWDOWN TIME TO BE WITHIN 72 HOURS	ACCUMULATED DEBRIS AND SEDIMENT IN INLETS OR YARD DRAINS SHOULD BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LOCAL STATE AND FEDERAL REGULATIONS.	IF ANY INFILTRATION BASIN IS OBSERVED TO FAIL TO DEWATER WITHIN THE ALLOWABLE 72 HOURS THE OWNER SHALL NOTIFY THE ENGINING OF RECORD OR QUALIFIED GEOTECHNICAL ENGINING TO DEVELOP A PLAN TO ADDRESS THE DEFICIENCY.
		4 TIMES PER YEAR	•INSPECT FOR ANY PONDING WATER		
		2 TIMES PER YEAR	•INSPECT STRUCTURES •INSPECT FOR SEDIMENT ACCUMULATION •INSPECT FOR VEGETATIVE COVER CONDITION		
		ANNUALLY	•INSPECT STRUCTURES •INSPECT FOR SEDIMENT ACCUMULATION •INSPECT FOR VEGETATIVE COVER CONDITION		

PCSM – GENERAL BMP NOTES

1. A SITE INSPECTION AND APPROVAL BY THE COUNTY CONSERVATION DISTRICT IS REQUIRED PRIOR TO THE REMOVAL OR CONVERSION OF SEDIMENT BASINS AND TRAPS.
2. ATWELL SHALL BE NOTIFIED OF PRE–CONSTRUCTION MEETING DATE AND BMP CONSTRUCTION SCHEDULE.
3. THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO LIMIT THE COMPACTION IN THE PROPOSED BMP BOTTOMS.
4. REFER TO THE BMP CONSTRUCTION DETAILS FOR THE CONSTRUCTION OF ALL PROPOSED STORMWATER MANAGEMENT BMPs.
5. REFER TO THE PCSWM PLAN AND DETAILS FOR SPECIFIC BMP CONSTRUCTION GUIDELINES.
6. AS–BUILT PLANS OF THE STORMWATER BMPs FOR EACH PROJECT PHASE SHALL BE PROVIDED WITHIN SIX MONTHS OF THE COMPLETION OF EACH PHASE. THE AS–BUILT PLANS SHALL BE SIGNED AND SEALED BY A PA REGISTERED PROFESSIONAL SURVEYOR.
7. A NOTICE OF TERMINATION (NOT) WILL BE REQUIRED TO BE SUBMITTED FOLLOWING APPROVAL OF THE FINAL AS–BUILT PLANS. PRIOR TO ACCEPTING THE NOT, THE DEPARTMENT AND/OR CONSERVATION DISTRICT STAFF WILL PERFORM A FINAL INSPECTION TO ENSURE SITE STABILIZATION AND VERIFY ADEQUATE INSTALLATION AND FUNCTION OF STORMWATER BMPs.

GENERAL CONSTRUCTION SEQUENCE FOR INFILTRATION FACILITIES

1.) PROTECT INFILTRATION AREA, THE EXISTING SUBGRADE UNDER THE BED AREAS SHOULD NOT BE COMPACTED OR SUBJECT TO EXCESSIVE CONSTRUCTION EQUIPMENT TRAFFIC PRIOR TO ACHIEVING FINAL SUBGRADE.

2.) INSTALL AND MAINTAIN PROPER EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION. DO NOT REMOVE INLET PROTECTION OR OTHER EROSION AND SEDIMENT CONTROL MEASURES UNTIL SITE IS FULLY STABILIZED. DIVERT SEDIMENT LADEN RUNOFF AWAY FROM AREAS TO BE USED FOR INFILTRATION.

3.) INSTALL UPSTREAM AND DOWNSTREAM CONTROL STRUCTURES, CLEANOUTS, PERFORATED PIPING, AND ALL OTHER NECESSARY STORMWATER STRUCTURES.

4.) EXCAVATE INFILTRATION FACILITY BOTTOM TO A UNIFORM, LEVEL UNCOMPACTED SUBGRADE FREE FROM ROCKS AND DEBRIS. DO NOT COMPACT SUBGRADE. USE NON–MECHANICAL METHODS FOR FINAL GRADING. INFILTRATION TESTING SHALL BE CONDUCTED BY THE CONTRACTOR AND/OR OWNER ON THE BED BOTTOM TO CONFIRM DESIGN RATES INDICATED ON THE B.M.P. DETAIL.

5.) WHEN THE BASIN IS EXPOSED TO EITHER COMPACTION FROM HEAVY CONSTRUCTION TRAFFIC AND / OR SEDIMENT LADEN WATER, EXCAVATE INFILTRATION BASIN SOILS TO PROVIDE AN UNCOMPACTED SUBGRADE FREE FROM ROCKS AND DEBRIS. THIS MATERIAL SHOULD BE REMOVED WITH LOW GROUND PRESSURE EQUIPMENT AND THE UNDERLYING SOILS SCARIFIED TO A MINIMUM DEPTH OF 6 INCHES WITH A YORK RAKE (OR EQUIVALENT) AND LIGHT TRACTOR. ALL FINAL GRADING SHOULD BE DONE BY HAND. ALL BED BOTTOMS SHOULD BE AT LEVEL GRADE.

6.) PROVIDE TOPSOIL MEETING PROJECT SPECIFICATIONS. SEED AND STABILIZE TOPSOIL. DO NOT REMOVE INLET PROTECTION OR OTHER EROSION AND SEDIMENT CONTROL MEASURES UNTIL SITE IS FULLY STABILIZED.

RECYCLING OR DISPOSAL OF MATERIALS

§102.8(f)(11)

THE FOLLOWING IS A LIST THAT INCLUDES, BUT THAT IS NOT LIMITED TO, THE POTENTIAL POST–CONSTRUCTION WASTES THAT MAY EXIST ON–SITE:

- TRASH (CANS, BOTTLES, ETC.)
- YARD WASTE (LEAVES, GRASS CLIPPINGS, ETC.)
- DEBRIS COLLECTED IN INLETS
- SEDIMENT CAPTURED IN ANY PCSM BMP

PCSM WASTES SHALL BE DISPOSED OF PER LOCAL ORDINANCES AND REGULATION

CRITICAL STAGES

- CONVERSION OF SEDIMENT BASINS TO PERMANENT INFILTRATION FACILITIES (BMP#1)

LOCATION OF ALL SURFACE WATERS AND THEIR CLASSIFICATION UNDER CHAPTER 93

§102.4(b)(5)(v)

THE SUBJECT SITE DRAINS TO UNNAMED TRIBUTARY TO BEAVER RIVER AND STOCKMAN RUN, WHICH HAS A WARM WATER FISHES (WWF) CHAPTER 93 CLASSIFICATION.

RECEIVING SURFACE WATERS

§102.8(f)(5)

1. THE SUBJECT SITE DRAINS TO UNNAMED TRIBUTARY TO BEAVER RIVER AND STOCKMAN RUN, WHICH HAS A WARM WATER FISHES (WWF) CHAPTER 93 CLASSIFICATION.
2. THE DEVELOPMENT IS IN NEITHER AN HQ NOR AN EV WATERSHED AND THEREFORE, NO BOUNDARIES ARE SHOWN.
3. THERE ARE WETLANDS LOCATED ON THE PROJECT SITE AND NO DISTRUBANCE OF WETLANDS IS PROPOSED.

GEOLOGICAL FORMATION CONDITION THAT MAY HAVE THE POTENTIAL TO CAUSE POLLUTION

§102.4(b)(5)(xii)

THERE ARE NO EXISTING CONTAMINANTS ON SITE AND THERE ARE NO GEOLOGIC FORMATIONS OR SOIL CONDITIONS THAT COULD CAUSE POLLUTION AFTER EARTH DISTURBANCE ACTIVITIES ARE COMPLETED.

DEFINITION OF CLEAN FILL AND IMPORT/EXPORT MATERIAL NOTES

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 APPLICANT.

1.) CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON–WATER SOLUBLE, NON–DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED 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).

2.) CLEAN FILL AFFECTED BY A 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".

3.) 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 THESE INSTRUCTIONS.

4.) 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 SUBJECTED TO A SPILL OR RELEASE OF REGULATED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A 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. THE REGULATIONS ARE AVAILABLE ON–LINE AT WWW.PACODE.COM

Infiltration Basin Specifications

1. Site Preparation
   a. All excavation areas, embankments, and where structures are to be installed shall be cleared and grubbed as necessary, but trees and existing vegetation should be retained and incorporated within the basin area where possible.
   b. Where feasible, trees and other native vegetation should be protected. A minimum 10- foot radius around the inlet and outlet structures can be cleared to allow construction.
   c. Any cleared material should be used as mulch for erosion control or soil stabilization.
2. Excavation
   a. The area to be used for the basin bottom should be excavated to the required depth below the desired bottom elevation to accommodate the underdrain and amended soil mix.
   b. Minimize compaction of the existing soils by using a backhoe or tracked equipment for the last 2 feet of excavation at the bottom of the basins.
   c. Where embankment fill is required, a key trench a minimum of 2 feet deep and 4 feet wide shall be excavated before placing the fill.
3. Subsoil Preparation
   a. Subsoil shall be free from hard clods, stiff clay, hardpan, ashes, slag, construction debris, petroleum hydrocarbons, or other undesirable material. Subsoil must not be delivered in a frozen or muddy state.
   b. Scarify the subsoil in embankment fill areas to a depth of 8 to 10 inches with a disk, rototiller, or similar equipment.
4. Basin Bottom Sub-Soiling to Relieve Compaction
   a. Before the time the amended soil mix is placed and preferably when excavation is completed, the subsoil shall be in a loose, friable condition to a depth of 20 inches below final topsoil grade and there shall be no erosion rills or washouts in the subsoil surface exceeding 3 inches in depth.
   b. To achieve this condition, subsoiling, ripping, or scarification of the subsoil will be required as directed by the owners s representative, wherever the subsoil has been compacted by equipment operation or has become dried out and crusted, and where necessary to obliterate erosion rills. Sub-soiling shall be required to reduce soil compaction in all areas where plant establishment is planned. Sub-soiling shall be performed by the prime or excavating contractor and shall occur before compost placement.
   c. Subsoiled areas shall be loosened to less than 1400 kPa (200 psi) to a depth of 20 inches below final topsoil grade. When directed by the owner's representative, the Contractor shall verify that the sub-soiling work conforms to the specified depth.
   d. Sub-soiling shall form a two-directional grid. Channels shall be created by a commercially available, multi-shanked, parallelogram implement (solid-shank ripper). The equipment shall be capable of exerting a penetration force necessary for the site. No disc cultivators chisel plows, or spring-loaded equipment will be allowed. The grid channels shall be spaced a minimum of 12 inches to a maximum of 36 inches apart, depending on equipment, site conditions, and the soil management plan. The channel depth shall be a minimum of 20 inches or as specified in the soil management plan. If soils are saturated, the Contractor shall delay operations until the soil will not hold a ball when squeezed.
5. Earth Fill Material & Placement
   a. The fill material should be taken from approved designated excavation areas. It should be free of roots, stumps, wood, rubbish, stones greater than 6 inches, or other objectionable materials. Materials on the outer surface of the embankment must have the capability to support vegetation.
   b. Embankment fill material shall be clay material conforming to Unified Soil Classification GC, SC, CH or CL and approved by a licensed geotechnical engineer. Given the stony nature of the native material, it may be necessary to import good clean clay. If the material will need to be imported from an off-site location, the responsibility for performing the environmental due diligence and determination of clean fill will reside with the contractor.
   c. The fill material shall be placed in 8-inch lifts and compacted to 95% standard proctor dry density using a sheepsfoot roller. Compaction shall be monitored by a licensed geotechnical engineer. The principal spillway should be installed concurrently with fill placement and not excavated into the embankment.
   d. The movement of the hauling and spreading equipment over the site should be controlled. For the embankment, each lift should be compacted to 95% of the standard proctor. Fill material should contain sufficient moisture so that if formed into a ball it will not crumble, yet not be so wet that water can be squeezed out.
6. Embankment Core
   a. The core should be parallel to the centerline of the embankment as shown on the plans. The top width of the core should be at least four feet. The height should extend up to at least the 10-year water elevation or as shown on the plans. The side slopes should be 1 to 1 or flatter. The core should be compacted with construction equipment, rollers, or hand tampers to assure maximum density and minimum permeability. The core should be placed concurrently with the outer shell of the embankment.
7. Amended Soil Placement
   a. Amended soil mix shall consist of 15% wood chips, 35% topsoil and 50% sand. The amended soil shall be uniformly mixed prior to placement in the bottom of the basins. Wood chips shall be used from the tree removal on site.
   b. Spread 2-3 inches of amended soil mixture on the existing subsoil using light tractors or tracked equipment. Till in the added soil into the existing subsoil with a rotary tiller set to a depth of 6 inches. Then add the remaining amended soil mixture to achieve a minimum depth of 24 inches. The surface shall be shaped with a tracked bobcat to achieve the design grades shown on the plan.
8. Structure Backfill
   a. Backfill adjacent to pipes and structures should be of the type and quality conforming to that specified for the adjoining fill material. The outlet pipe through the embankment core shall be bedded and backfilled with clean clay. The fill should be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other manually directed compaction equipment. The material should fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation should driven equipment be allowed to operate closer than four feet to any part of the structure. Equipment should not be driven over any part of a concrete structure or pipe unless there is a compacted fill of 24 inches or greater over the structure or pipe.
   b. Structure backfill may be flowable fill meeting the requirements of the PennDOT Standard Specifications for Construction. Material should be placed so that a minimum of 6 inches of flowable fill should be under (bedding), over and, on the sides of the pipe. It only needs to extend up to the spring line for rigid conduits. Average slump of the fill material should be 7 inches to assure flowability of the mixture. Adequate measures should be taken (sandbags, etc.) to prevent floating the pipe. When using flowable fill all metal pipe should be bituminous coated. Adjoining soil fill should be placed in horizontal layers not to exceed 4 inches in thickness and compacted by hand tampers or other manually directed compaction equipment.
   c. Refer to Chapter 220 0f PennDOT Pub. 408 (2000).
9. Rock Riprap
   a. Rock riprap should meet the requirements of Pennsylvania Department of Transportation Standard Specifications.
10. Stabilization
    a. All borrow areas should be graded to provide proper drainage and left in a sightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and berms should be stabilized by seeding, planting and mulching.
11. Anti-Grazing
    a. Install chain link fence around the basin at the top of the embankment. Deer will jump the chain link fence so install a temporary construction fence on 6' high metal posts using two tiers of high-visibility plastic fence at a 5-foot offset to the permanent chain link fence. Maintain the secondary construction fence for at least one growing season and remove when the native vegetation within the basin is well established.
12. Operation and Maintenance
    a. Follow the Operation and Maintenance Plan on the Post Construction Stormwater Management Plan. As a minimum, a dam and inspection checklist should be included as part of the operation and maintenance plan and performed at least annually.

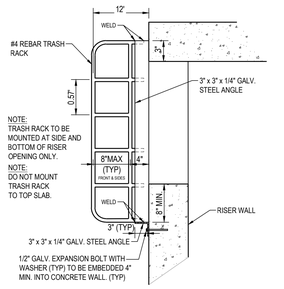
NOTES:

1. TEXTURE OF PLANTING SOIL SHOULD CONFORM TO THE CLASSIFICATION WITHIN THE USDA TRIANGLE FOR SANDY LOAM OR LOAMY SAND. PLANTING SOIL SHOULD BE A MIXTURE OF SAND, SILT, AND CLAY PARTICLES AS REQUIRED TO MEET THE CLASSIFICATION. RANGES OF PARTICLE SIZE DISTRIBUTION, AS DETERMINED BY PIPETTE METHOD IN COMPLIANCE WITH ASTM F-1632:

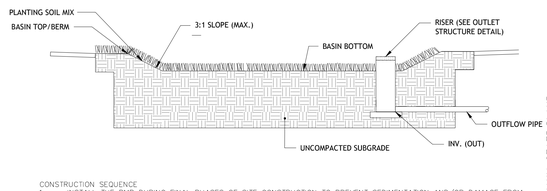
SAND	(0.05-2.0 mm)	50 - 85%
SILT	(0.002 TO 0.05 mm)	40% MAXIMUM
CLAY	(LESS THAN 0.002 mm)	10% MAXIMUM
GRAVEL	(2.0 TO 12.7 mm)	15% MAXIMUM

2. PLANTING SOIL SHOULD BE SCREENED AND FREE OF STONES LARGER THAN A HALF-INCH (½"; 12.7 mm) IN ANY DIMENSION. NO MORE THAN TEN PERCENT (10%) OF THE SOIL VOLUME SHOULD BE COMPOSED OF SOIL PEDS GREATER THAN ONE INCH (1").
3. CLODS, OR NATURAL CLUMPS OF SOILS, GREATER THAN THREE INCHES (3") IN ANY DIMENSION SHOULD BE ABSENT FROM THE PLANTING SOIL. SMALL CLODS RANGING FROM ONE TO THREE INCHES (1-3") AND PEDS, NATURAL SOIL CLUMPS UNDER ONE INCH (1") IN ANY DIMENSION, MAY BE PRESENT BUT SHOULD NOT MAKE UP MORE THAN TEN PERCENT (10%) OF THE SOIL BY VOLUME.
4. THE pH OF THE PLANTING SOIL SHOULD HAVE A RANGE OF 5.8-7.1.
5. SOLUBLE SALTS SHOULD BE LESS THAN 2.0 mmhos/cm (dS/m), TYPICALLY AS MEASURED BY 1:2 SOIL-WATER RATIO BASIC SOIL SALINITY TESTING. SODIC SOILS (EXCHANGEABLE SODIUM PERCENTAGE (ESP) GREATER THAN 15 AND/OR SODIUM ADSORPTION RATIO (SAR) GREATER THAN 13) SHALL NOT BE ACCEPTABLE FOR USE REGARDLESS OF AMENDMENT.
6. ORGANIC CONTENT OF PLANTING SOIL SHOULD HAVE A RANGE OF THREE TO FIFTEEN PERCENT (3-15%) BY WEIGHT AS DETERMINED BY LOSS ON IGNITION (ASTM D2974). TO ADJUST ORGANIC CONTENT, PLANTING SOIL MAY BE AMENDED, PRIOR TO PLACING AND FINAL GRADING, WITH THE ADDITION OF ORGANIC COMPOST.
7. ALL AGGREGATE WITHIN THE STONE STORAGE BED SHALL BE CLEAN-WASHED, DEFINED AS HAVING LESS THAN 0.5% WASH LOSS, BY MASS, WHEN TESTED PER THE AASHTO T-11 WASH LOST TEST.
8. GEOTEXTILE SHALL CONSIST OF POLYPROPYLENE FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:

   GRAB TENSILE STRENGTH (ASTM-D4632) > OR = 120 LBS.
   MULLEN BURST STRENGTH (ASTM-D3786) > OR = 225 LBS.
   FLOW RATE (ASTM-D4491) > OR = 95 GAL./MIN./FT²
   UV RESISTANCE AFTER 500 HRS. (ASTM-D4355) > OR = 70%
   HEAT-SET OR HEAT CALENDARED FABRICS ARE NOT PERMITTED



TRASH RACK CONNECTION TO FRAME, WEIR & TOP SLAB DETAIL
NOT TO SCALE



CONSTRUCTION SEQUENCE

1. INSTALL THE BMP DURING FINAL PHASES OF SITE CONSTRUCTION TO PREVENT SEDIMENTATION AND/OR DAMAGE FROM CONSTRUCTION ACTIVITY. AFTER INSTALLATION, PREVENT SEDIMENT–LADEN WATER FROM ENTERING THE FACILITY.
2. INSTALL AND MAINTAIN PROPER E&S BMPS DURING CONSTRUCTION.
3. THE BOTTOM SHOULD BE UN–COMPACTED, FREE FROM ROCKS AND DEBRIS. DO NOT COMPACT THE SUBGRADE.
4. INSTALL OUTLET CONTROL STRUCTURES, REINFORCED SPILLWAY, AND PIPE BEDDING.
5. SEED AND STABILIZE DISTURBED AREA. VEGETATE WITH NATIVE PLANTINGS.
6. MAINTAIN INLET PROTECTION AND OTHER E&S CONTROLS UNTIL THE SITE IS FULLY STABILIZED.

INFILTRATION BASIN DETAIL
NOT TO SCALE

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLSVILLE, 20721
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL GEORGE J. HARTMAN III ENGINEER No. PE076453

GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 076453

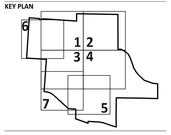
DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03 EARLY WORKS PRELIMINARY LAND DEVELOPMENT PLANS

BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/26/26
B	60% Review	06/26/26
C	90% Review	06/29/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

THIS DOCUMENT CONSTITUTES THE CONFIDENTIAL AND PROPRIETARY INFORMATION OF SWITCH. NOT TO BE SHARED, MODIFIED, OR DUPLICATED WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF SWITCH.

DRAWING INFORMATION

DATE: JUNE 2026
PROJECT NUMBER: 25010482

DESIGN LEAD: George Hartman III
QUALITY REVIEW BY: Julia Schmitz

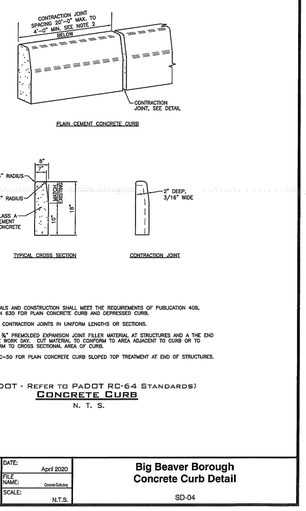
SHEET TITLE

POST CONSTRUCTION STORMWATER MANAGEMENT DETAILS

SHEET NUMBER

C609

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83



NOTES:

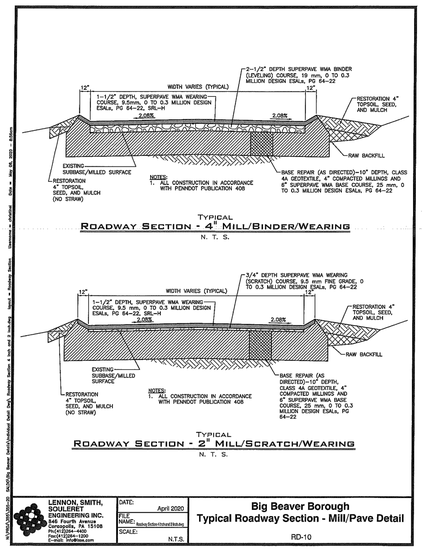
1. MATERIALS AND CONSTRUCTION SHALL MEET THE REQUIREMENTS OF PUBLICATION 408, SECTION 630 FOR PLAIN CONCRETE CURB AND DEPRESSED CURB.
2. SPACE CONTRACTION JOINTS IN UNIFORM LENGTHS OR SECTIONS.
3. PLACE ½" PREMOLDED EXPANSION JOINT FILLER MATERIAL AT STRUCTURES AND A THE END OF THE WORK DAY. CUT MATERIAL TO CONFORM TO AREA ADJACENT TO CURB OR TO CONFORM TO CROSS SECTIONAL AREA OF CURB.
4. SEE RC-50 FOR PLAIN CONCRETE CURB SLOPED TOP TREATMENT AT END OF STRUCTURES.

(PADOT - Refer to PADOT RC-64 Standards)

Concrete Curb

N. T. S.

LENNON, SMITH, SOULERET ENGINEERING INC. 846 Fourth Avenue Coraopolis, PA 15108 Ph(412)264-4400 Fax(412)264-1200 E-mail: bls@lsse.com	DATE: April 2020 FILE NAME: Type Trench and Pipe Zone.dwg SCALE: N.T.S.	**Big Beaver Borough** **Concrete Curb Detail** SD-04



NOTES:
1. ALL CONSTRUCTION IN ACCORDANCE WITH PENNDOT PUBLICATION 408

Typical Roadway Section - 4" Mill/Binder/Wearing

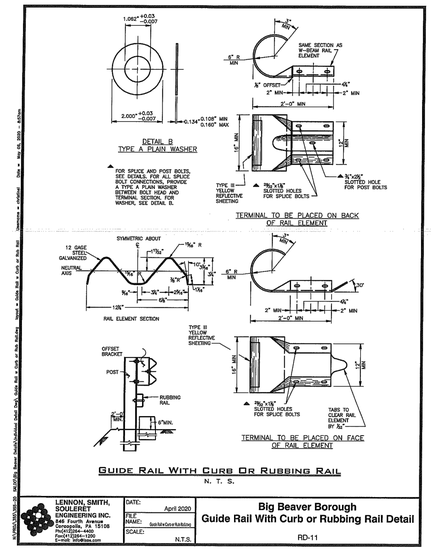
N. T. S.

NOTES:
1. ALL CONSTRUCTION IN ACCORDANCE WITH PENNDOT PUBLICATION 408

Typical Roadway Section - 2" Mill/Scratch/Wearing

N. T. S.

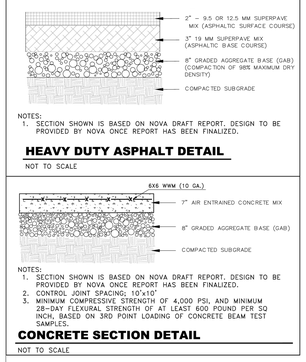
LENNON, SMITH, SOULERET ENGINEERING INC. 846 Fourth Avenue Coraopolis, PA 15108 Ph(412)264-4400 Fax(412)264-1200 E-mail: bls@lsse.com	DATE: April 2020 FILE NAME: Roadway Section Mill and Wearing.dwg SCALE: N.T.S.	**Big Beaver Borough** **Typical Roadway Section - Mill/Pave Detail** RD-10



Guide Rail With Curb Or Rubbing Rail

N. T. S.

LENNON, SMITH, SOULERET ENGINEERING INC. 846 Fourth Avenue Coraopolis, PA 15108 Ph(412)264-4400 Fax(412)264-1200 E-mail: bls@lsse.com	DATE: April 2020 FILE NAME: Guide Rail With Curb or Rubbing Rail.dwg SCALE: N.T.S.	**Big Beaver Borough** **Guide Rail With Curb or Rubbing Rail Detail** RD-11



NOTES:
1. SECTION SHOWN IS BASED ON NOVA DRAFT REPORT. DESIGN TO BE PROVIDED BY NOVA ONCE REPORT HAS BEEN FINALIZED.

Heavy Duty Asphalt Detail

NOT TO SCALE

NOTES:
1. SECTION SHOWN IS BASED ON NOVA DRAFT REPORT. DESIGN TO BE PROVIDED BY NOVA ONCE REPORT HAS BEEN FINALIZED.
2. CONTROL JOINT SPACING; 10'x10'
3. MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI, AND MINIMUM 28-DAY FLEXURAL STRENGTH OF AT LEAST 600 POUND PER SQ INCH, BASED ON 3RD POINT LOADING OF CONCRETE BEAM TEST SAMPLES.

Concrete Section Detail

NOT TO SCALE

Typical Trench and Pipe Zones

N. T. S.

LENNON, SMITH, SOULERET ENGINEERING INC. 846 Fourth Avenue Coraopolis, PA 15108 Ph(412)264-4400 Fax(412)264-1200 E-mail: bls@lsse.com	DATE: April 2020 FILE NAME: Typ Trench and Pipe Zone.dwg SCALE: N.T.S.	**Big Beaver Borough** **Typical Trench and Pipe Zones** SS-01

NOTES:
1. INVERTS SHALL BE IMPLEMENTED IN ALL SANITARY SEWER MANHOLES.
2. INVERTS SHALL BE IMPLEMENTED IN ALL STORM SEWER MANHOLES EXCEPT FOR THOSE WHICH REQUIRE A TWO FOOT SUMP AS STATED ON THE PLANS.

Manhole Invert

N. T. S.

LENNON, SMITH, SOULERET ENGINEERING INC. 846 Fourth Avenue Coraopolis, PA 15108 Ph(412)264-4400 Fax(412)264-1200 E-mail: bls@lsse.com	DATE: April 2020 FILE NAME: SCALE: N.T.S.	**Big Beaver Borough** **Manhole Invert Detail** SS-05

Typical Storm and Sanitary Manhole Frame and Cover

N. T. S.

LENNON, SMITH, SOULERET ENGINEERING INC. 846 Fourth Avenue Coraopolis, PA 15108 Ph(412)264-4400 Fax(412)264-1200 E-mail: bls@lsse.com	DATE: April 2020 FILE NAME: Manhole Frame and Cover.dwg SCALE: N.T.S.	**Big Beaver Borough** **Typical Storm And Sanitary Manhole Frame And Cover Detail** SS-07

NOTES:
1. ALL CONTACT SURFACES MACHINED.
2. PROVIDE SECURITY SADDLE OVER EYEBOLT IF SPECIFIED.
3. REFER TO STANDARD SANITARY MANHOLE FRAME AND COVER DETAIL FOR DETAIL ON COVER.

Watertight Sanitary Manhole Frame and Cover

N. T. S.

LENNON, SMITH, SOULERET ENGINEERING INC. 846 Fourth Avenue Coraopolis, PA 15108 Ph(412)264-4400 Fax(412)264-1200 E-mail: bls@lsse.com	DATE: April 2020 FILE NAME: W.T. Manhole W Cover for Grinding.dwg SCALE: N.T.S.	**Big Beaver Borough** **Watertight Sanitary Manhole Frame And Cover (With Inner Cover Option) Detail** SS-11

NOTE:
LIMIT CLEARING & GRUBBING TO A DISTANCE EQUAL TO TWO TIMES THE LENGTH OF PIPE INSTALLATION THAT CAN BE COMPLETED IN ONE DAY AND LIMIT TRENCH EXCAVATION TO THE LENGTH OF PIPE INSTALLATION, PLUG INSTALLATION, AND BACKFILLING THAT CAN BE COMPLETED IN ONE DAY.

SOURCE:
PA DEPARTMENT OF ENVIRONMENTAL PROTECTION EROSION AND SEDIMENTATION CONTROL STANDARD WORKSHEETS JANUARY 1998

Trench Plug

N. T. S.

LENNON, SMITH, SOULERET ENGINEERING INC. 846 Fourth Avenue Coraopolis, PA 15108 Ph(412)264-4400 Fax(412)264-1200 E-mail: bls@lsse.com	DATE: April 2020 FILE NAME: Trench Plug.dwg SCALE: N.T.S.	**Big Beaver Borough** **Trench Plug Detail** SS-17

NOTES:
1. GRADE ADJUSTMENT RINGS MAY NOT BE UTILIZED FOR MANHOLES.
2. ALL ADJUSTMENTS MUST BE COMPLETED PRIOR TO THE PLACEMENT OF THE WEARING COURSE

Typical Manhole Adjustment

N. T. S.

LENNON, SMITH, SOULERET ENGINEERING INC. 846 Fourth Avenue Coraopolis, PA 15108 Ph(412)264-4400 Fax(412)264-1200 E-mail: bls@lsse.com	DATE: April 2020 FILE NAME: Manhole Adjustment.dwg SCALE: N.T.S.	**Big Beaver Borough** **Typical Manhole Adjustment Detail** SS-08

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
919 CONESTOGA ROAD BUILDING 3, SUITE 213
BRYN MAWR, PA 19010
610.527.3030

STAMP

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER GEORGE J. HARTMAN III PA. PE074451

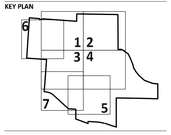
GEORGE J. HARTMAN III
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 074451

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	30% Review	05/25/26
B	60% Review	06/08/26
C	90% Review	06/23/26
D	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

THIS DOCUMENT CONSTITUTES THE CONFIDENTIAL AND PROPRIETARY INFORMATION OF SWITCH. NOT TO BE SHARED, MODIFIED, OR DUPLICATED WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF SWITCH.

DRAWING INFORMATION

DATE:	JUNE 2026
PROJECT NUMBER:	25010482
SCALE:	1" = 200'
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Julia Schmitz

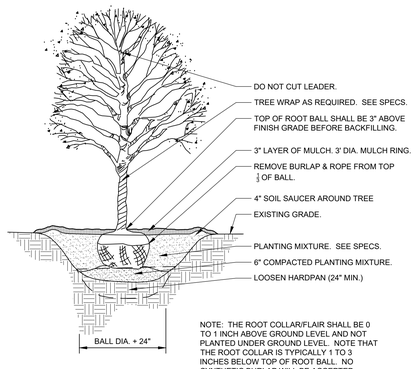
SHEET TITLE

SITE DETAILS

SHEET NUMBER

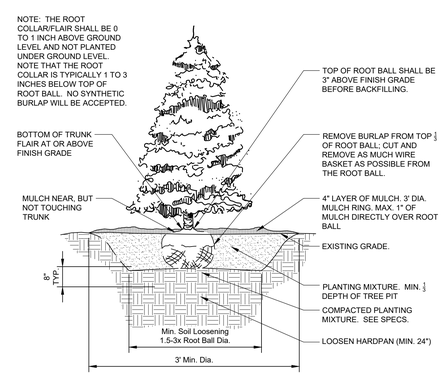
C820

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83



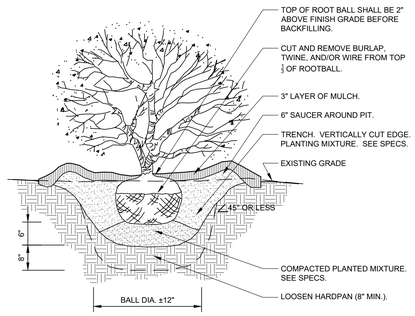
1 DECIDUOUS TREE PLANTING

1/4" = 1'-0" 329343.33-20



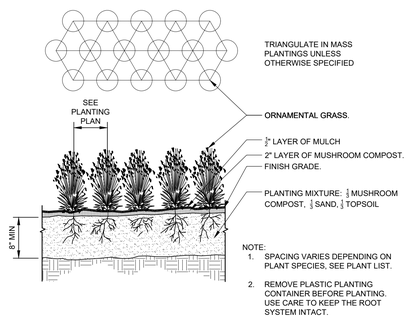
2 CONIFER TREE PLANTING- ANSI A300

1/4" = 1'-0" 329343.23-01



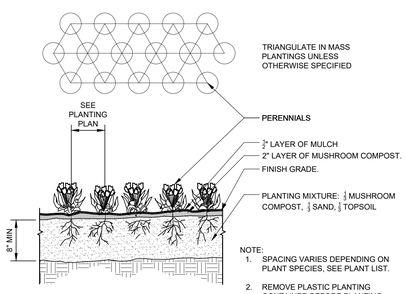
3 SHRUB PLANTING DETAIL

3/4" = 1'-0" 329333.16-05



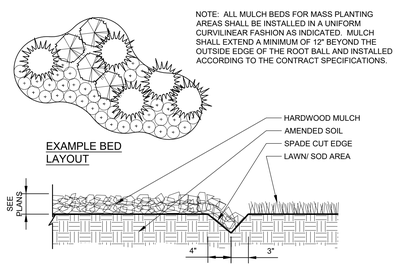
4 ORNAMENTAL GRASS PLANTING

1" = 1'-0" 329313-01



5 PERENNIAL / ANNUAL PLANTING

1" = 1'-0" 329313-02



6 CONTINUOUS MULCH EDGING

1" = 1'-0" 329113.26-01

Beaver County Required Landscaping

PERIMETER REQUIREMENT

Requirement: Only landscaping, bufferyards, common open space, and underground piping or lines for water, sewer, gas, and electric collection and/or distribution shall be permitted within the perimeter setback.

BUFFERYARD PLANTING REQUIREMENT

Side Yard Requirement: All other uses adjoining C-1, C-2, and I Uses where a mutual agreement is provided in writing by the adjoining property owners, no side yard shall be required where two 92) or more industrial uses adjoin side to side.

A single continuous bufferyard along the perimeter of the Industrial Park may be installed in lieu of separate bufferyards for each use, provided:

a. A plan for installation and maintenance of the bufferyard is:
   i. Submitted as part of the development plan.
   ii. Submitted as part of the request for Industrial Park designation.
   iii. Submitted to Borough Council for approval.

b. Such bufferyards shall be:
   i. Twenty-five (25) feet in depth around the entire perimeter.
   ii. Excluding roadway and utility entrances.
   iii. Maintained by the owner, developer, or jointly by all owners.

CONCEPT PLANT SCHEDULE

	EVERGREEN TREE	111
	SHADE TREE	41
	LOW MEADOW MIX	2,621,061 sf
	TURF SEED MIX	1,046,440 sf
	NATIVE STORMWATER SEED MIX	420,574 sf

Landscape Notes:

1. Seed/ Sod limit line is approximate. Seed/ Sod to limits of grading and disturbance. Contractor responsible for restoration of any unauthorized disruption outside of designated construction area.
2. Contractor responsible for erosion control in all seeded/ sodded areas. Tree mulch rings in turf areas are 5' diameter. Contractor shall provide a mulch ring around all existing trees within the limits of work. Remove all existing grass from area to be mulched and provide a typical spade cut edge. Landscape Fabric shall not be installed under mulch. Root flares shall be at or above grade, per specifications, and all rope/cord shall be removed from the base of tree trunks.
3. Bedlines are to be spade cut to a minimum depth of 3". Curved bedlines are to be smooth and not segmented.
4. All planting, beds shall receive top dressing of mulch. Landscape fabric shall not be installed under mulch.
5. Do not locate plants within 10' of utility structures or within 5' horizontally of underground utility lines unless otherwise shown on plans. Consult with Landscape Architect if these conditions exist.
6. For Lump Sum Contracts, plants and other materials are quantified and summarized for the convenience of the Owner and jurisdictional agencies only. Confirm and install sufficient quantities to complete the work as drawn and specified. No additional payments will be made for materials required to complete the work as drawn and specified.
7. For Unit Price Contracts, payments will be made based on actual quantities installed as measured in place by the Owner's Representative.
8. It is the responsibility of the contractor to locate and provide plant material as specified on this plan. The contractor may submit a request to provide substitutions for the specified plant material under the following conditions:
   a. Any substitutions proposed shall be submitted to the project owner's representative within two weeks of the award of contract. Substitutions must meet equivalent design and functional goals of the original materials as determined by the owner's representative. Any changes must have the approval of the owner's representative,
   b. The request will be accompanied by at least three notices from plant material suppliers that the plant material specified is not available and will not be available prior to construction.
10. Verify site conditions and information on drawings. Promptly report any concealed conditions, mistakes, discrepancies or deviations from the information shown in the Contract Documents. The Owner is not responsible for unauthorized changes or extra work required to correct unreported discrepancies. Commencement of work shall constitute acceptance of conditions and responsibility for corrections
11. A minimum of two working days before performing any digging, call underground service alert for information on the location of natural gas lines, electric cables, telephone cables, etc. The contractor shall be responsible for location and protection of all utilities, and repair of any damage resulting from his work at no additional cost to the owner.
12. Contractor shall promptly repair all damages to existing site at no cost to owner.
13. Refer to landscape specifications for additional conditions, standards, and notes.

SEAL Date: 06/26/2026

Myles Urbano Aburto, ASLA, PLA
Pennsylvania Registered Landscape Architect
#LA003533
Expires 5/31/2027

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11720 BOWMAN DR, SUITE 300
BUTLER, PA 16001
724.430.2000

STAMP

SEAL Date: 06/26/2026

Myles Urbano Aburto, ASLA, PLA
Pennsylvania Registered Landscape Architect
#LA003533
Expires 5/31/2027

DESIGN TEAM DISCIPLINE

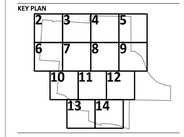
PROJECT INFORMATION

SWITCH PIT 01-03 EARLY WORKS

PRELIMINARY LAND DEVELOPMENT PLANS

BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	90% Review	06/26/26
0	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

THIS DOCUMENT CONSTITUTES THE CONFIDENTIAL AND PROPRIETARY INFORMATION OF SWITCH. NOT TO BE SHARED, MODIFIED, OR DUPLICATED WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF SWITCH.

DRAWING INFORMATION

DATE:	JUNE 2026
PROJECT NUMBER:	25010482
SCALE:	As Noted
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Myles U. Aburto

SHEET TITLE

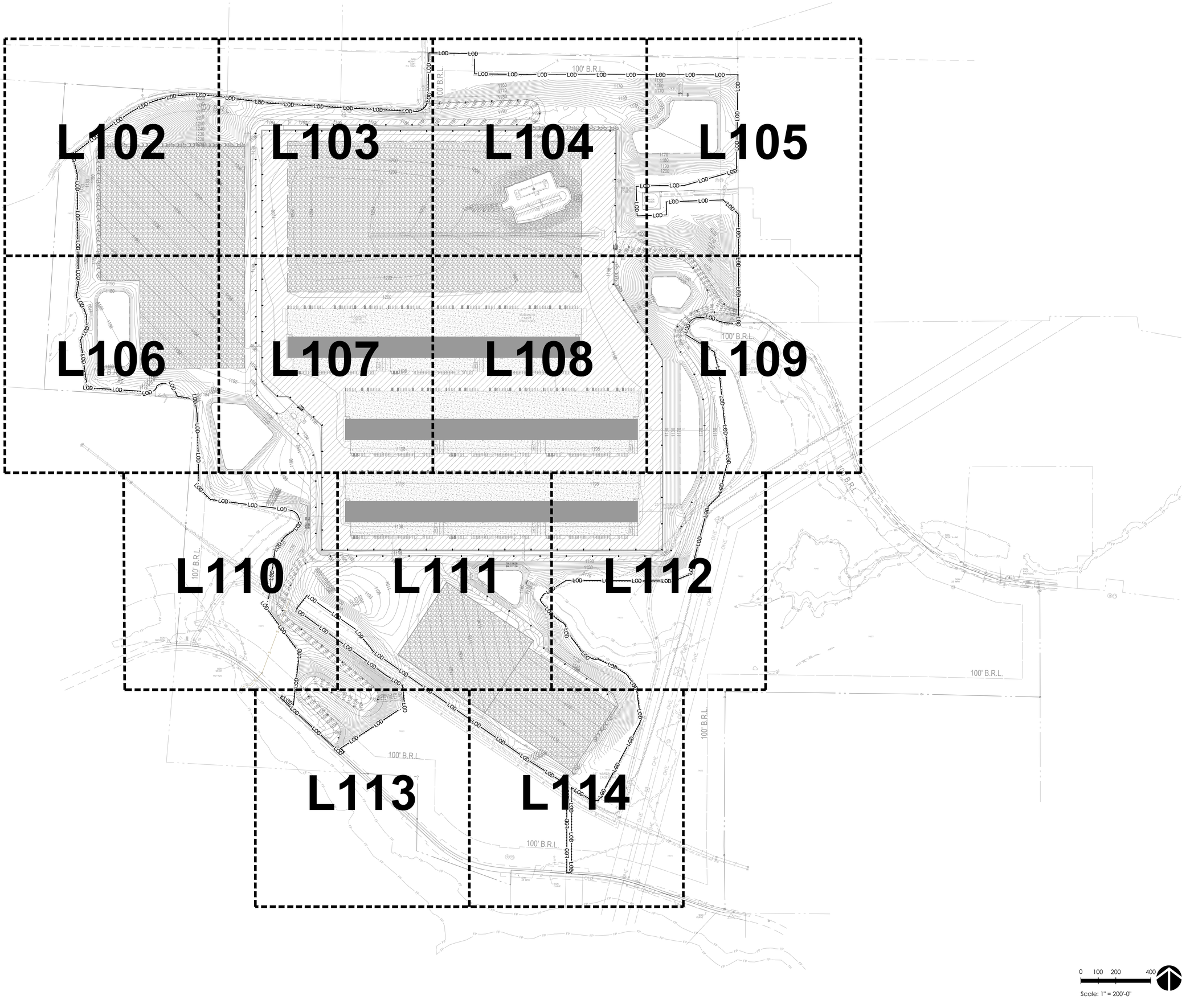
LANDSCAPE SUMMARY & DETAILS

SHEET NUMBER

L100

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

N



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PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 ROCKVILLE PK, SUITE 300
ROCKVILLE, MD 20852
301.430.2000

STAMP

COMMONWEALTH OF PENNSYLVANIA
MYLES URBANO ABURTO
REGISTERED LANDSCAPE ARCHITECT
LA003533

SEAL

Date: 06/26/2026

Myles Urbano Aburto, ASLA, PLA
Pennsylvania Registered Landscape Architect
#LA003533
Expires 5/31/2027

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

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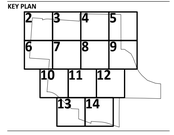

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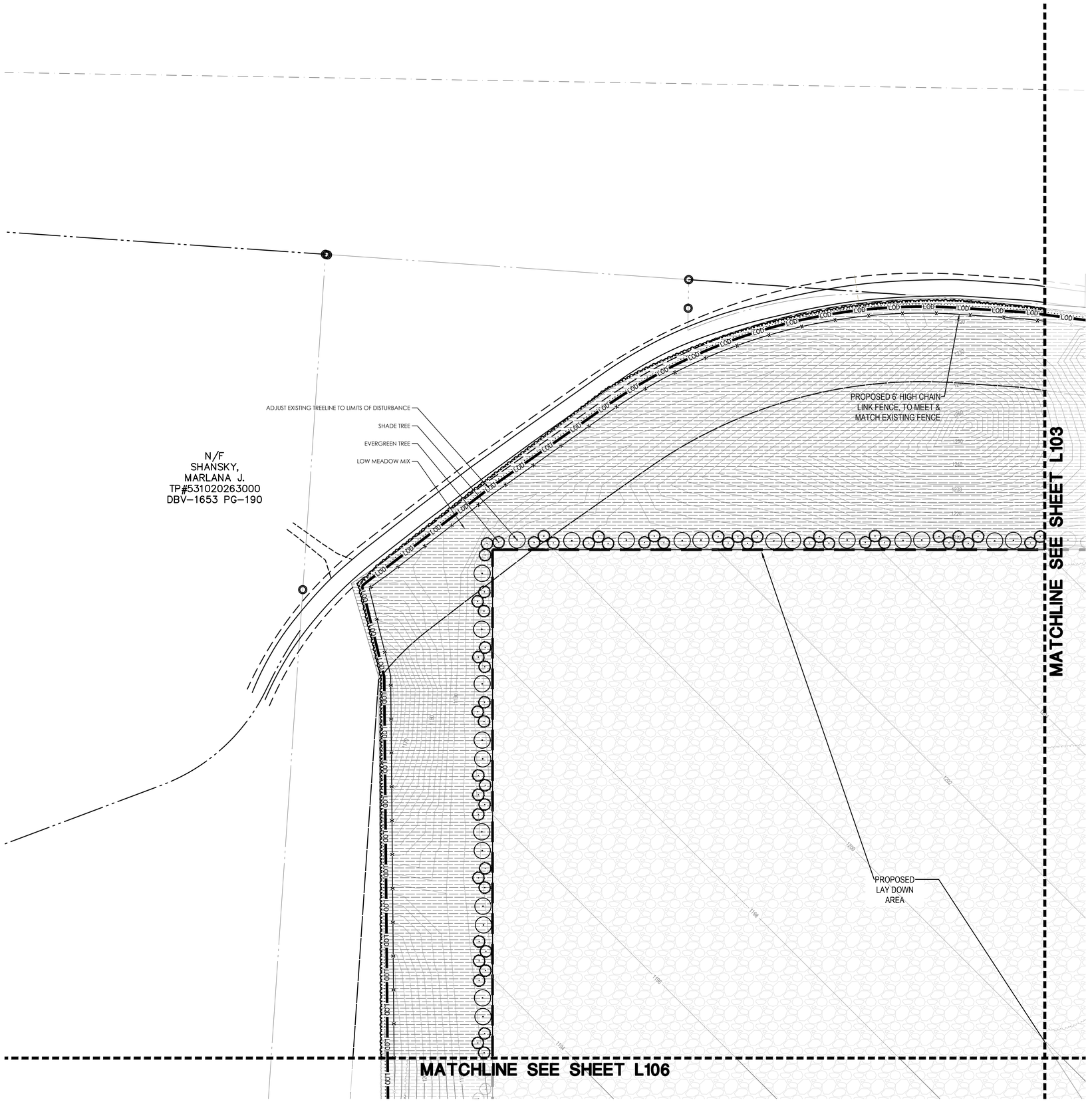
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Myles U. Aburto

SHEET TITLE

OVERALL
LANDSCAPE PLAN

SHEET NUMBER

L101



CONCEPT PLANT SCHEDULE

- EVERGREEN TREE
- SHADE TREE
- LOW MEADOW MIX
- TURF SEED MIX
- NATIVE STORMWATER SEED MIX

0 25 50 100

Scale: 1" = 50'-0"

PENNSYLVANIA STATE PLANE
COORDINATE SYSTEM, NAD83

N

DESIGN TEAM PRIME

ATWELL
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11721 ROCKVILLE PK, SUITE 300
ROCKVILLE, MD, 20721
301.430.2000

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SEAL

Date: 06/26/2026

Myles Urbano Aburto, ASLA, PLA
Pennsylvania Registered Landscape Architect
#LA003533
Expires 5/31/2027

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
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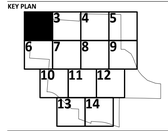
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
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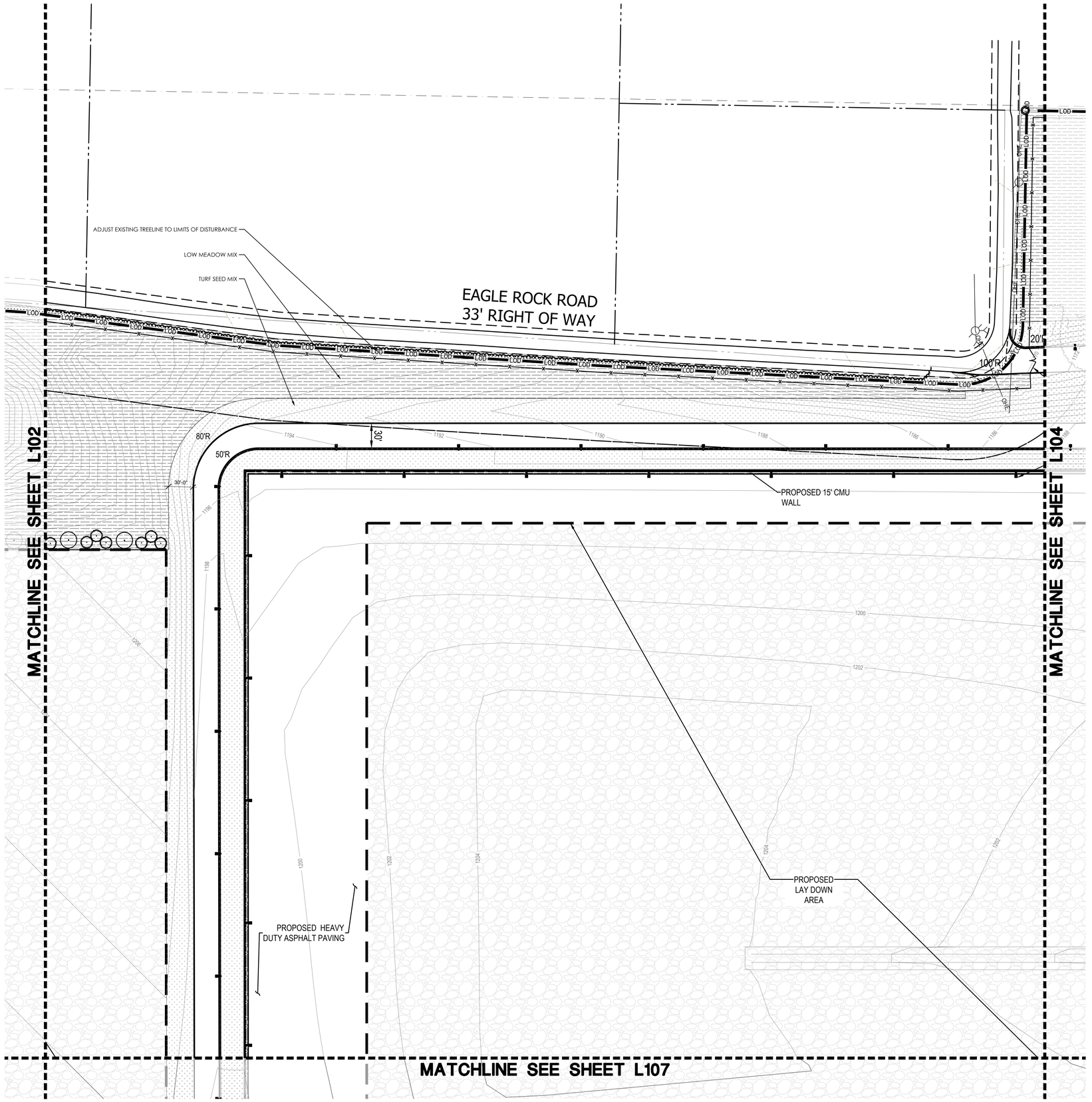
QUALITY REVIEW BY:	Myles U. Aburto

SHEET TITLE

LANDSCAPE PLAN

SHEET NUMBER

L102



CONCEPT PLANT SCHEDULE

- EVERGREEN TREE
- SHADE TREE
- LOW MEADOW MIX
- TURF SEED MIX
- NATIVE STORMWATER SEED MIX

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
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MITCHELLVILLE, MD 20721
301.430.2000

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PENNSYLVANIA REGISTERED LANDSCAPE ARCHITECT

SEAL

Date: 06/26/2026

Myles Urbano Aburto, ASLA, PLA
Pennsylvania Registered Landscape Architect
#LA003533
Expires 5/31/2027

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

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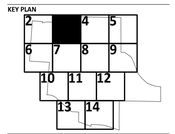

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QUALITY REVIEW BY:	Myles U. Aburto

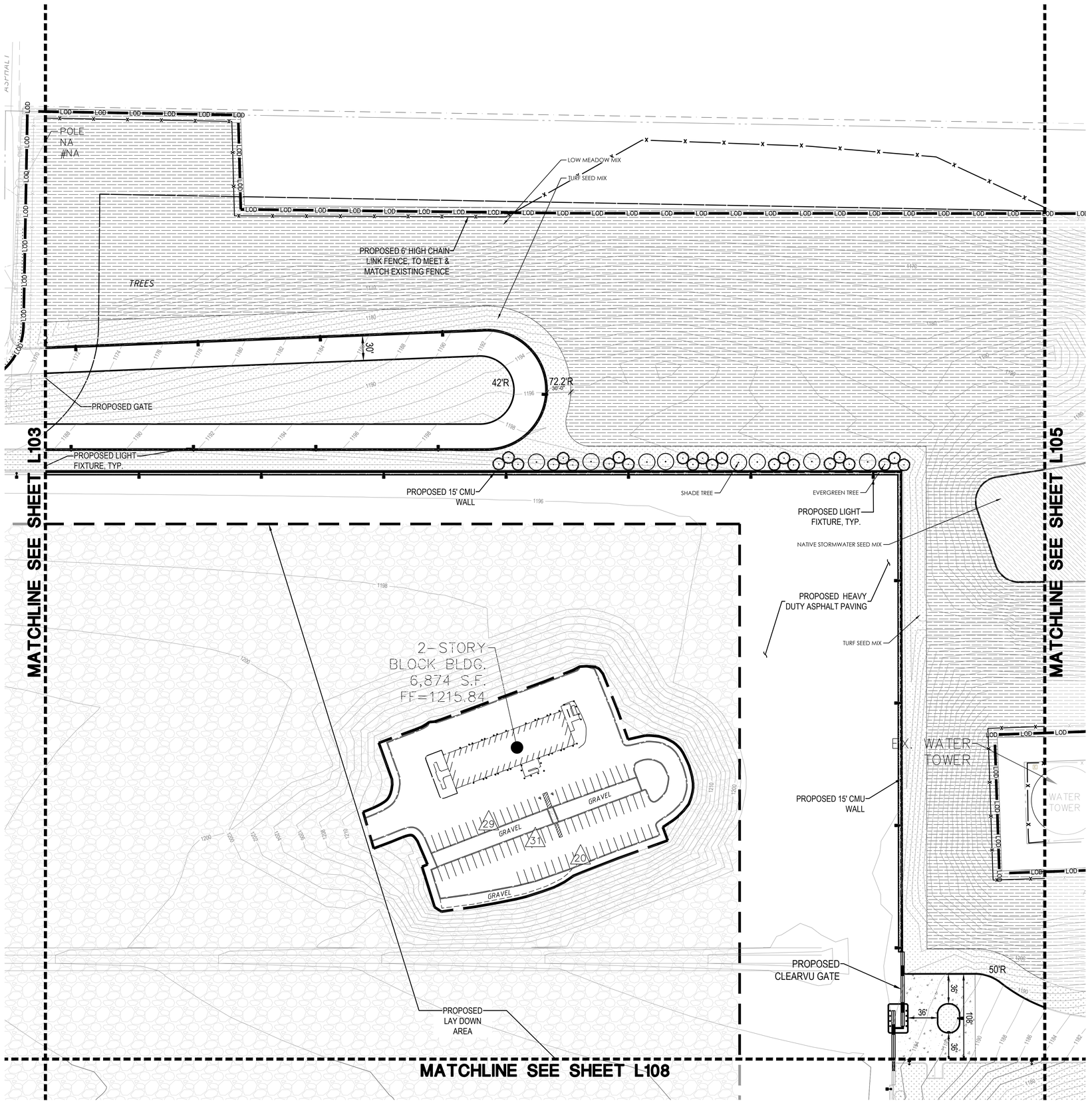
PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

SHEET TITLE

LANDSCAPE PLAN

SHEET NUMBER

L103



CONCEPT PLANT SCHEDULE

- EVERGREEN TREE
- SHADE TREE
- LOW MEADOW MIX
- TURF SEED MIX
- NATIVE STORMWATER SEED MIX

DESIGN TEAM PRIME

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PENNSYLVANIA
MYLES URBANO ABURTO
REGISTERED LANDSCAPE ARCHITECT
SEAL
Date: 06/26/2026
Myles Urbano Aburto, ASLA, PLA
Pennsylvania Registered Landscape Architect
#LA003533
Expires 5/31/2027

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
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BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

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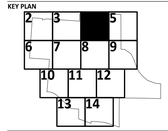

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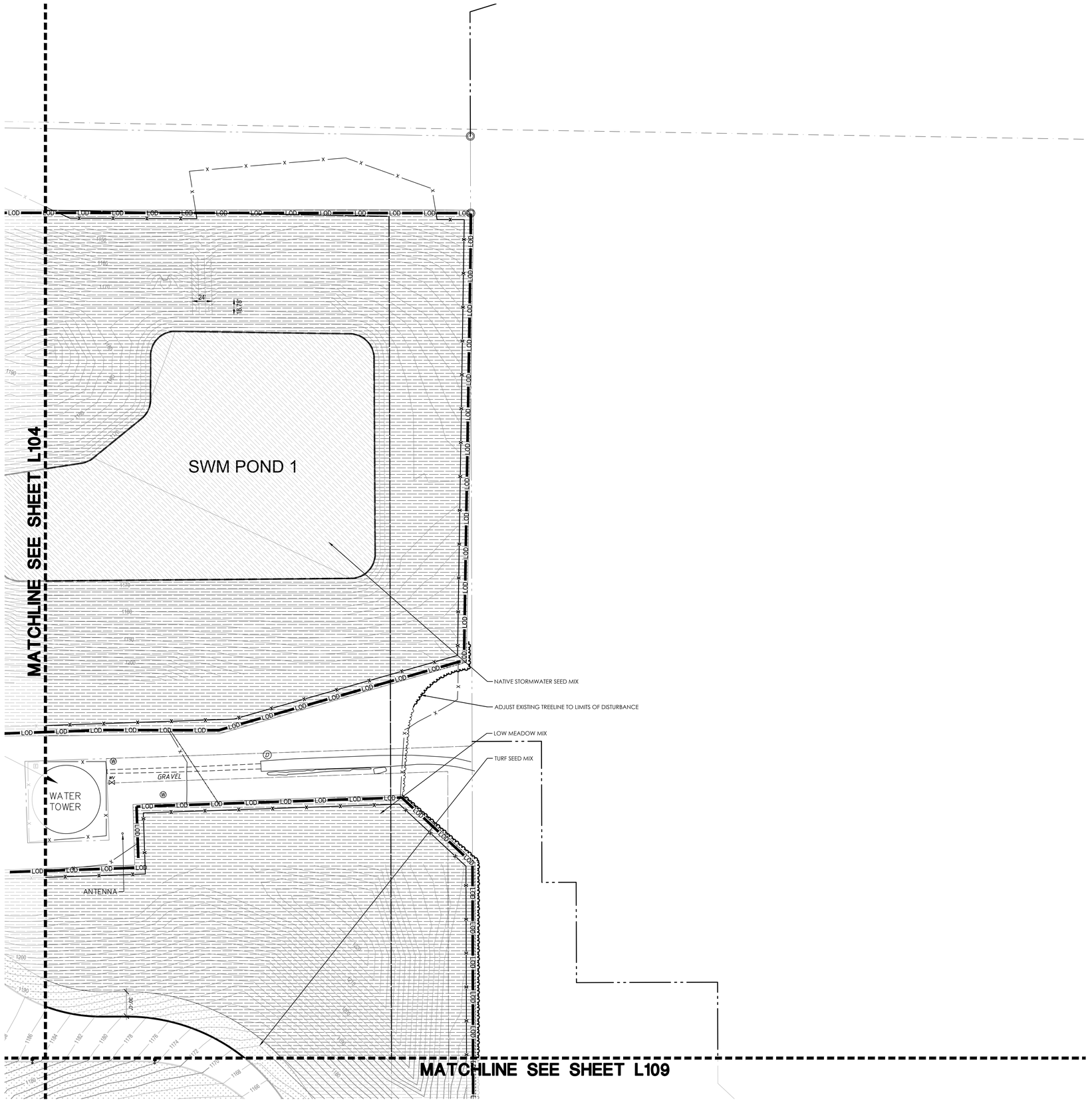
SHEET TITLE

LANDSCAPE PLAN

SHEET NUMBER

L104

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83



CONCEPT PLANT SCHEDULE

- EVERGREEN TREE
- SHADE TREE
- LOW MEADOW MIX
- TURF SEED MIX
- NATIVE STORMWATER SEED MIX

DESIGN TEAM PRIME

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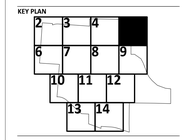
PENNSYLVANIA
MYLES URBANO ABURTO
REGISTERED LANDSCAPE ARCHITECT
SEAL
Date: 06/26/2026
Myles Urbano Aburto, ASLA, PLA
Pennsylvania Registered Landscape Architect
#LA003533
Expires 5/31/2027

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



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DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Myles U. Aburto

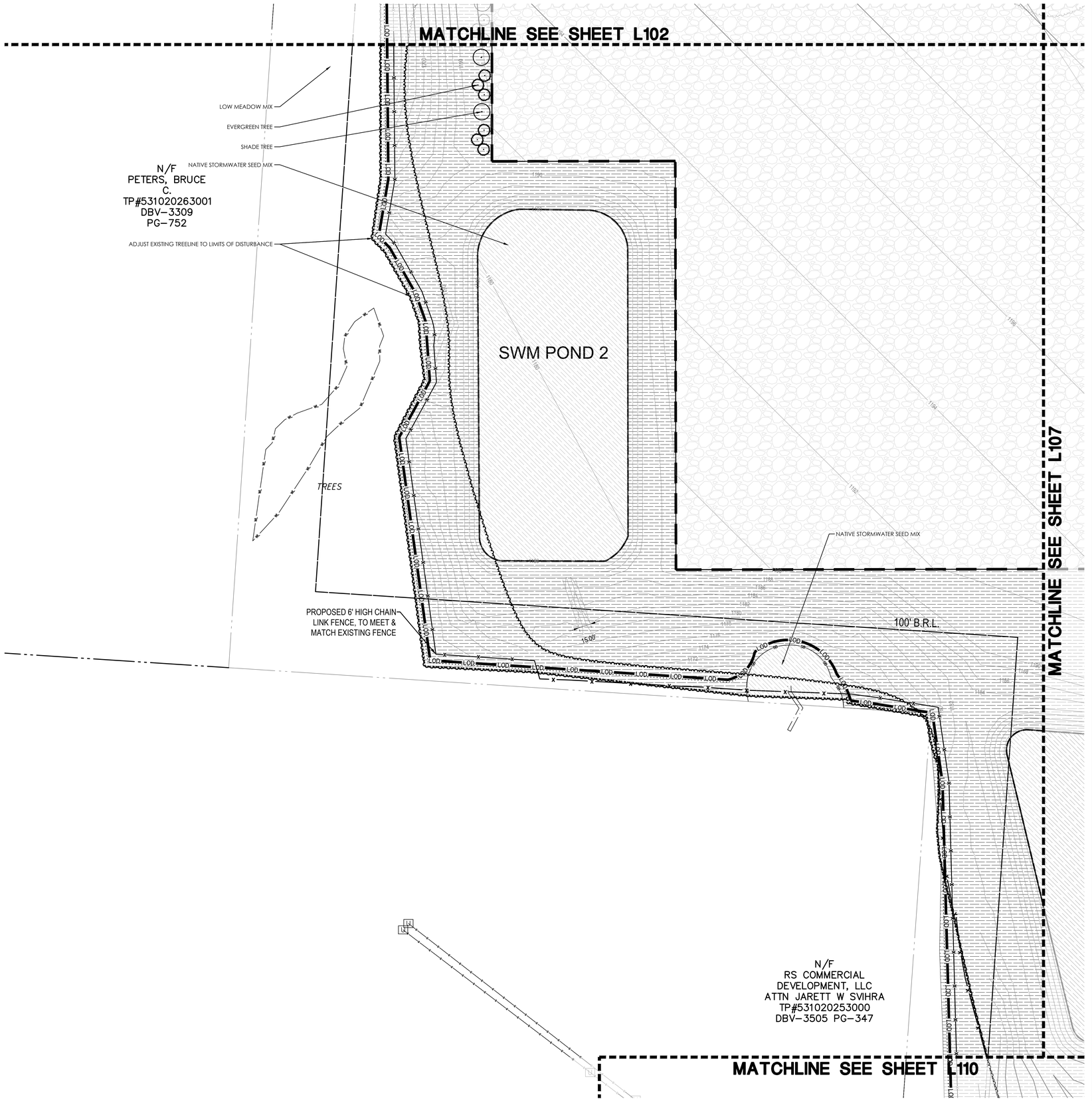
SHEET TITLE

LANDSCAPE PLAN

SHEET NUMBER

L105

PENNSYLVANIA STATE PLANE
COORDINATE SYSTEM, NAD83



CONCEPT PLANT SCHEDULE

- EVERGREEN TREE
- SHADE TREE
- LOW MEADOW MIX
- TURF SEED MIX
- NATIVE STORMWATER SEED MIX

DESIGN TEAM PRIME

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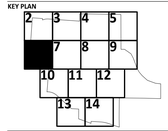
PENNSYLVANIA
MYLES URBANO ABURTO
REGISTERED LANDSCAPE ARCHITECT
SEAL
Date: 06/26/2026
Myles Urbano Aburto, ASLA, PLA
Pennsylvania Registered Landscape Architect
#LA003533
Expires 5/31/2027

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
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DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Myles U. Aburto

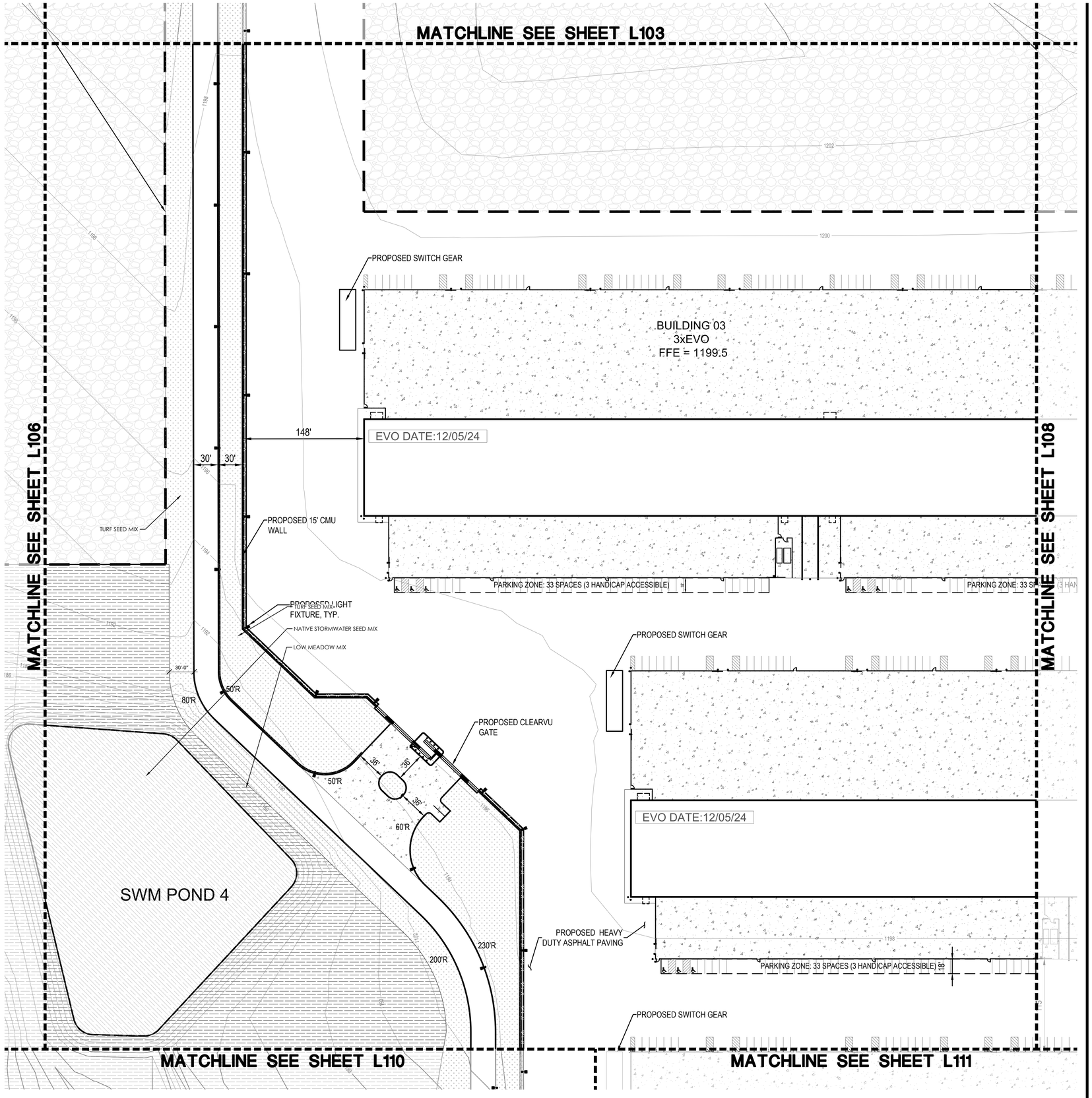
SHEET TITLE

LANDSCAPE PLAN

SHEET NUMBER

L106

PENNSYLVANIA STATE PLANE
COORDINATE SYSTEM, NAD83



CONCEPT PLANT SCHEDULE

- EVERGREEN TREE
- SHADE TREE
- LOW MEADOW MIX
- TURF SEED MIX
- NATIVE STORMWATER SEED MIX

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLVILLE, MD 20721
301.430.2000

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SEAL

Date: 06/26/2026

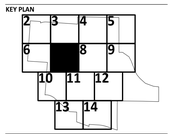
Myles Urbano Aburto, ASLA, PLA
Pennsylvania Registered Landscape Architect
#LA003533
Expires 5/31/2027

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	90% Review	06/26/26
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DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Myles U. Aburto

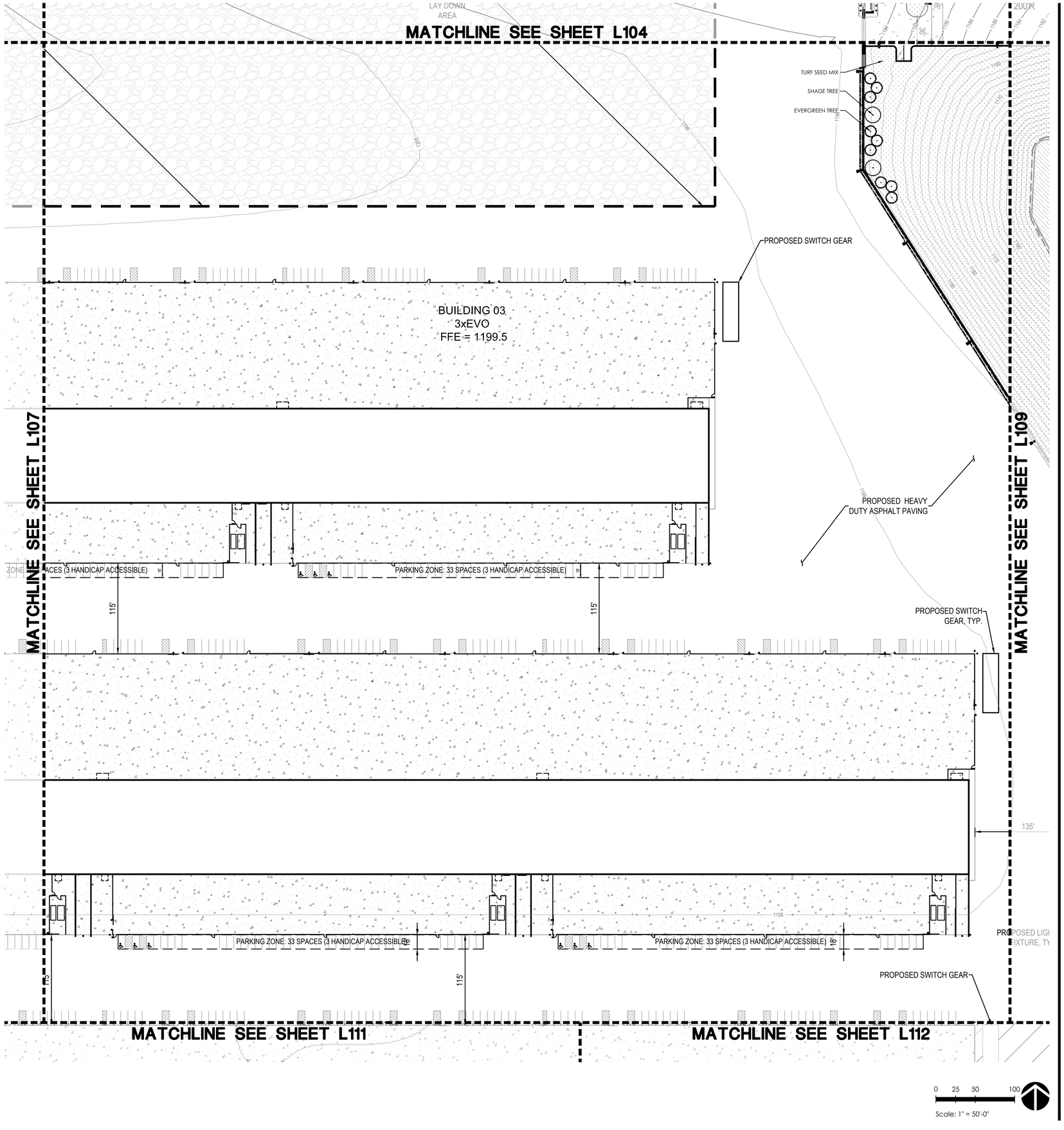
SHEET TITLE

LANDSCAPE PLAN

SHEET NUMBER

L107

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83



CONCEPT PLANT SCHEDULE

- EVERGREEN TREE
- SHADE TREE
- LOW MEADOW MIX
- TURF SEED MIX
- NATIVE STORMWATER SEED MIX

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODBURN RD, SUITE 200
MITCHELLVILLE, MD 20721
301.430.3000

STAMP

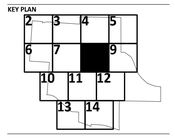
PENNSYLVANIA REGISTERED LANDSCAPE ARCHITECT
MYLES URBANO ABURTO
SEAL
Date: 06/26/2026
Myles Urbano Aburto, ASLA, PLA
Pennsylvania Registered Landscape Architect
#LA003533
Expires 5/31/2027

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
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DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Myles U. Aburto

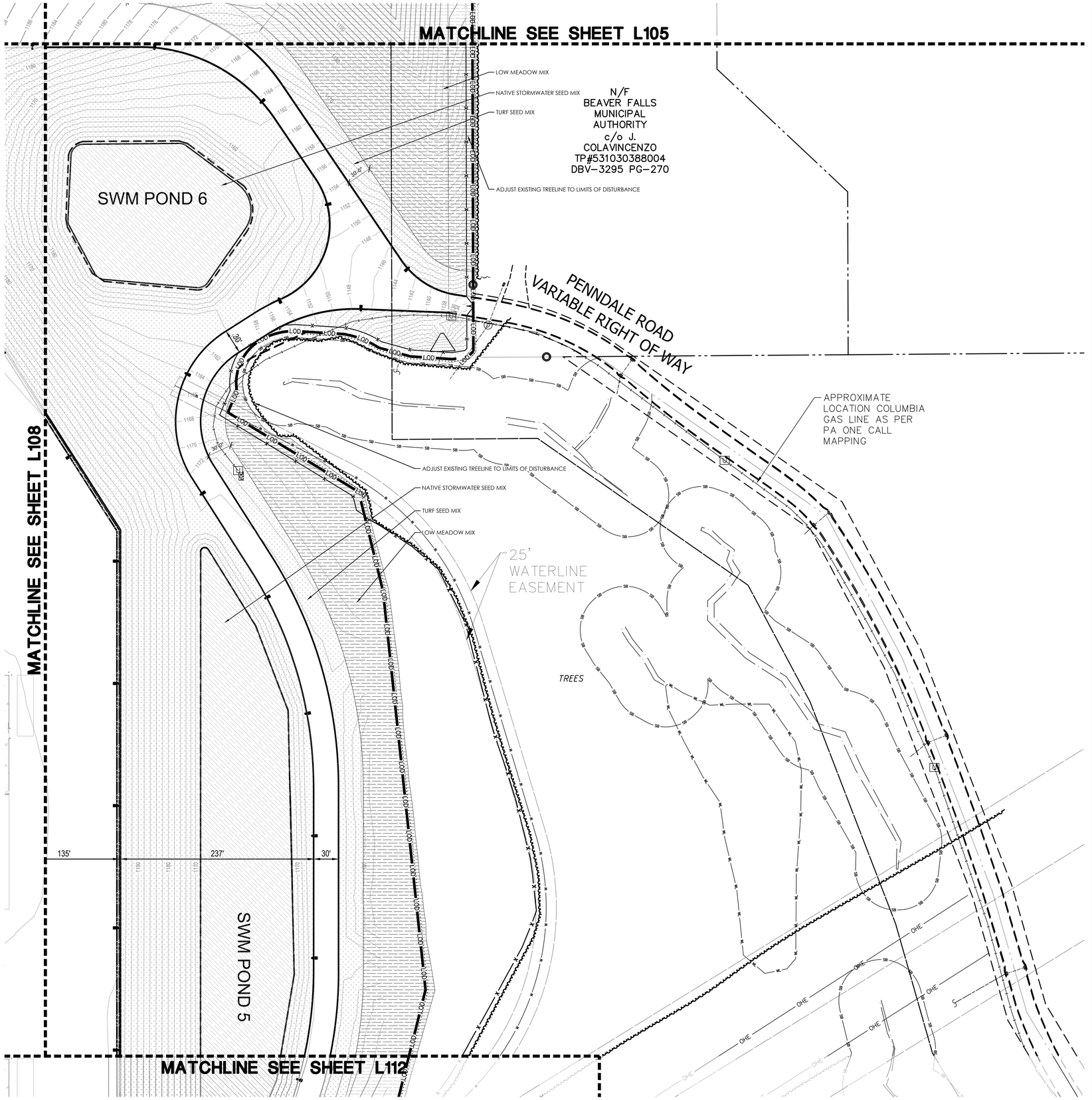
SHEET TITLE

LANDSCAPE PLAN

SHEET NUMBER

L108

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83



CONCEPT PLANT SCHEDULE

- EVERGREEN TREE
- SHADE TREE
- LOW MEADOW MIX
- TURF SEED MIX
- NATIVE STORMWATER SEED MIX

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
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301.430.2000

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COMMONWEALTH OF PENNSYLVANIA
MYLES URBANO ABURTO
REGISTERED LANDSCAPE ARCHITECT
LA003533

SEAL Date: 06/26/2026

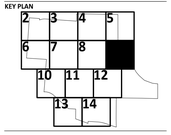
Myles Urbano Aburto, ASLA, PLA
Pennsylvania Registered Landscape Architect
#LA003533
Expires 5/31/2027

DESIGN TEAM DISCIPLINE

PROJECT INFORMATION

SWITCH PIT 01-03
EARLY WORKS
PRELIMINARY LAND DEVELOPMENT PLANS
BIG BEAVER BOROUGH, BEAVER COUNTY, PENNSYLVANIA

KEY PLAN



REV	DESCRIPTION	DATE
A	90% Review	06/26/26
0	ISSUED FOR PERMIT	07/07/26

OWNER

switch
7135 SOUTH DECATUR BLVD., LAS VEGAS, NV 89118
702-468-5873

CONFIDENTIAL

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DRAWING INFORMATION

DATE:	JUNE 2026
PROJECT NUMBER:	25010482
SCALE:	As Noted
DESIGN LEAD:	George Hartman III
QUALITY REVIEW BY:	Myles U. Aburto

SHEET TITLE

LANDSCAPE PLAN

SHEET NUMBER

L109

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

N

MATCHLINE SEE SHEET L106

MATCHLINE SEE SHEET L107

MATCHLINE SEE SHEET L111

MATCHLINE SEE SHEET L113

PROPOSED 8' RETAINING WALL #2 WITH 4' HIGH FENCE, TO BE DELEGATED DESIGN BY CONTRACTOR

LOW MEADOW MIX

TURF SEED MIX

ADJUST EXISTING TREELINE TO LIMITS OF DISTURBANCE

TW: 1180.00
BW: 1172.00

SIGN
CHEVRON

SIGN
SR351

110–120

LOD

FP

SS

Scale: 1" = 50'-0"

CONCEPT PLANT SCHEDULE

- EVERGREEN TREE
- SHADE TREE
- LOW MEADOW MIX
- TURF SEED MIX
- NATIVE STORMWATER SEED MIX

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11720 ROCKVILLE PK, SUITE 300
ROCKVILLE, MD 20852
301.430.2000

STAMP

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2 3 4 5
6 7 8 9
11 12
13 14

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LANDSCAPE PLAN

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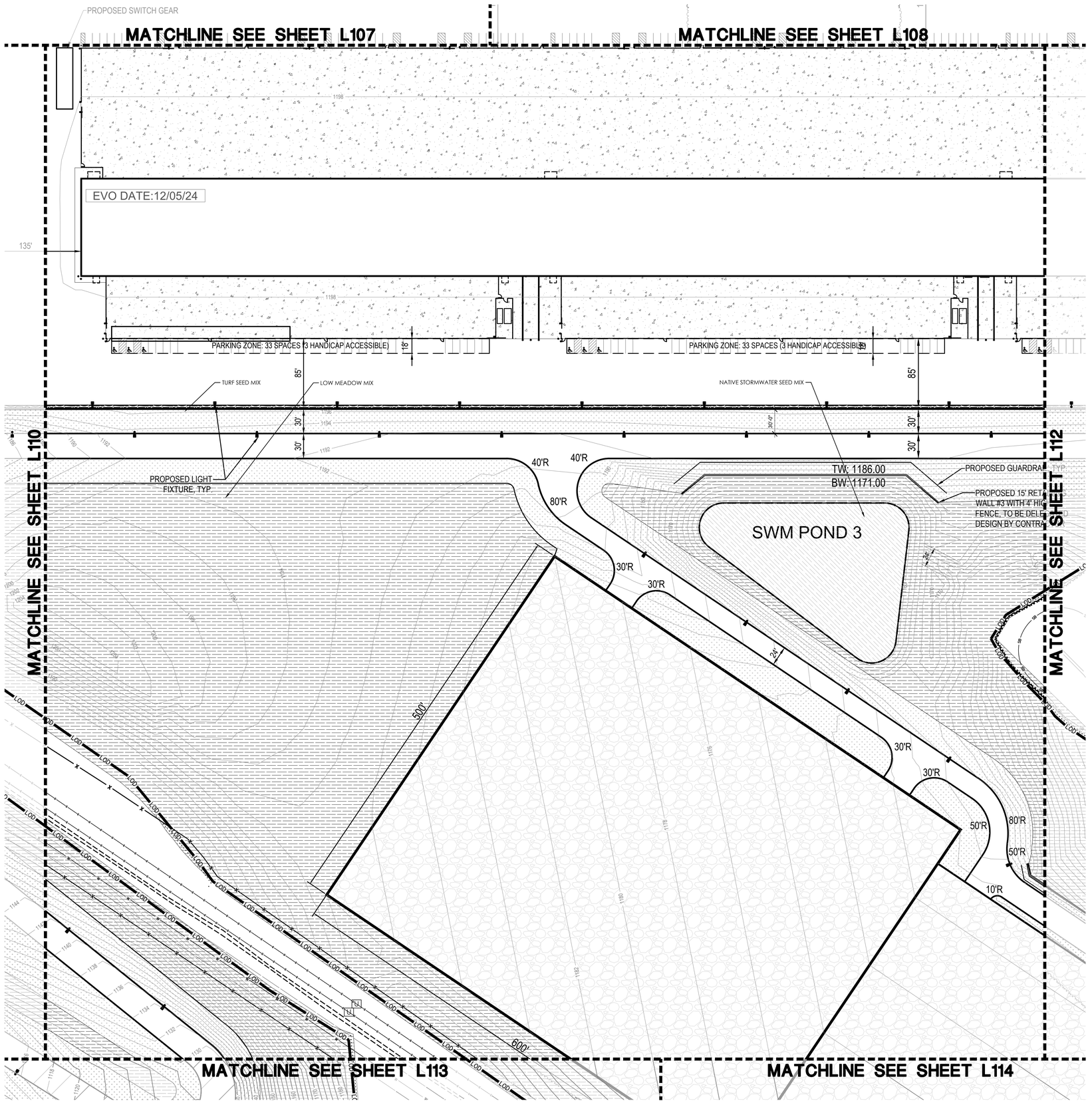
L110



CONCEPT PLANT SCHEDULE

- EVERGREEN TREE
- SHADE TREE
- LOW MEADOW MIX
- TURF SEED MIX
- NATIVE STORMWATER SEED MIX

DESIGN TEAM PRIME

ATWELL
866.850.4200 www.atwell.com
11721 WOODMORE RD, SUITE 200
MITCHELLVILLE, MD 20721
301.430.2000

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PENNSYLVANIA REGISTERED LANDSCAPE ARCHITECT
MYLES URBANO ABURTO
LA-003533
MARINER
LANDSCAPE ARCHITECT

SEAL

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Pennsylvania Registered Landscape Architect
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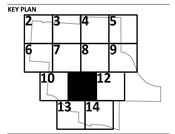

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PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

SHEET TITLE

LANDSCAPE PLAN

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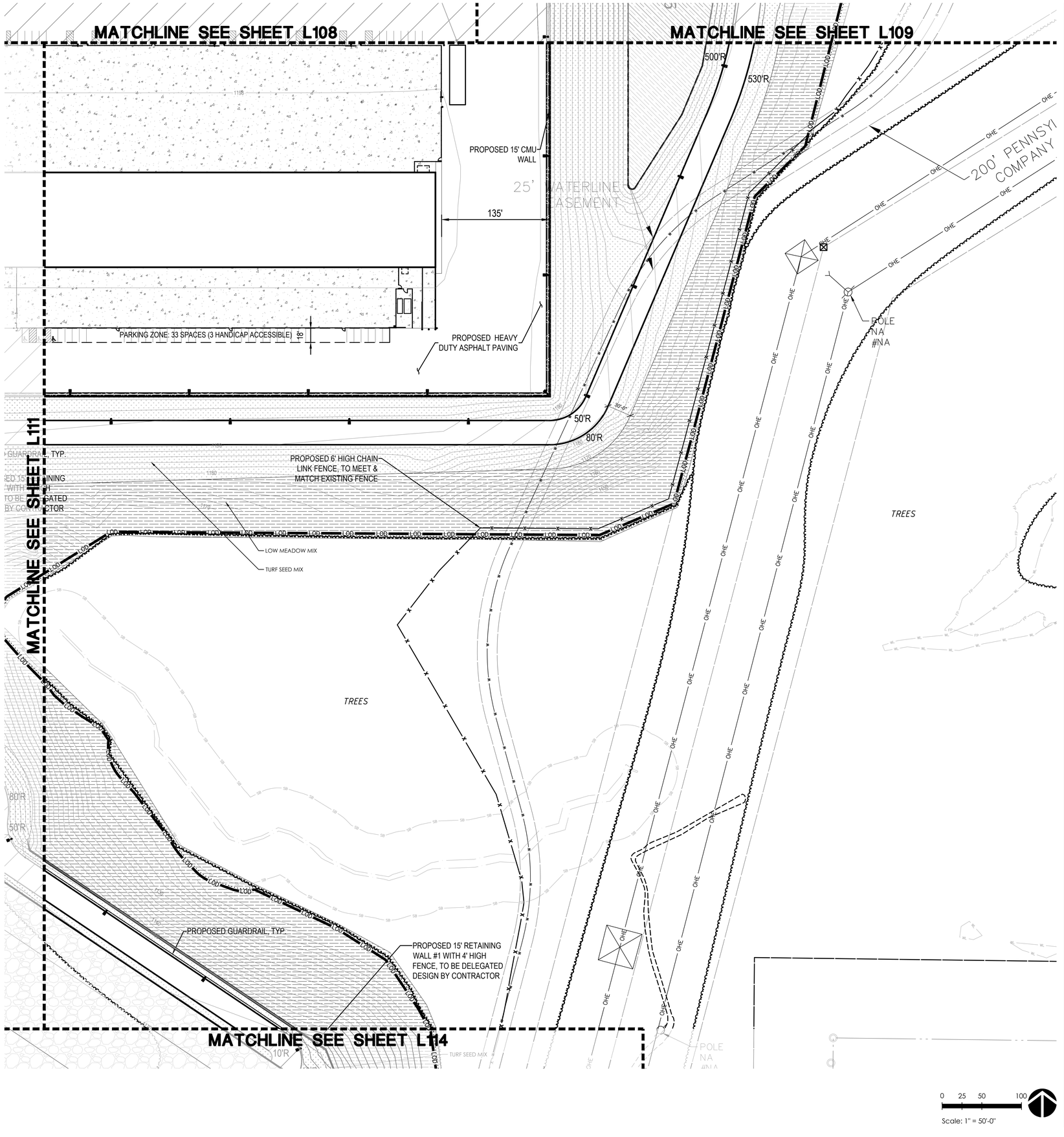
L111



CONCEPT PLANT SCHEDULE

- EVERGREEN TREE
- SHADE TREE
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DESIGN TEAM PRIME

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PENNSYLVANIA REGISTERED LANDSCAPE ARCHITECT MYLES URBANO ABURTO

SEAL

Date: 06/26/2026
Myles Urbano Aburto, ASLA, PLA
Pennsylvania Registered Landscape Architect
#LA003533
Expires 5/31/2027

DESIGN TEAM DISCIPLINE

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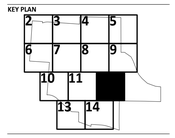

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LANDSCAPE PLAN

SHEET NUMBER

L112

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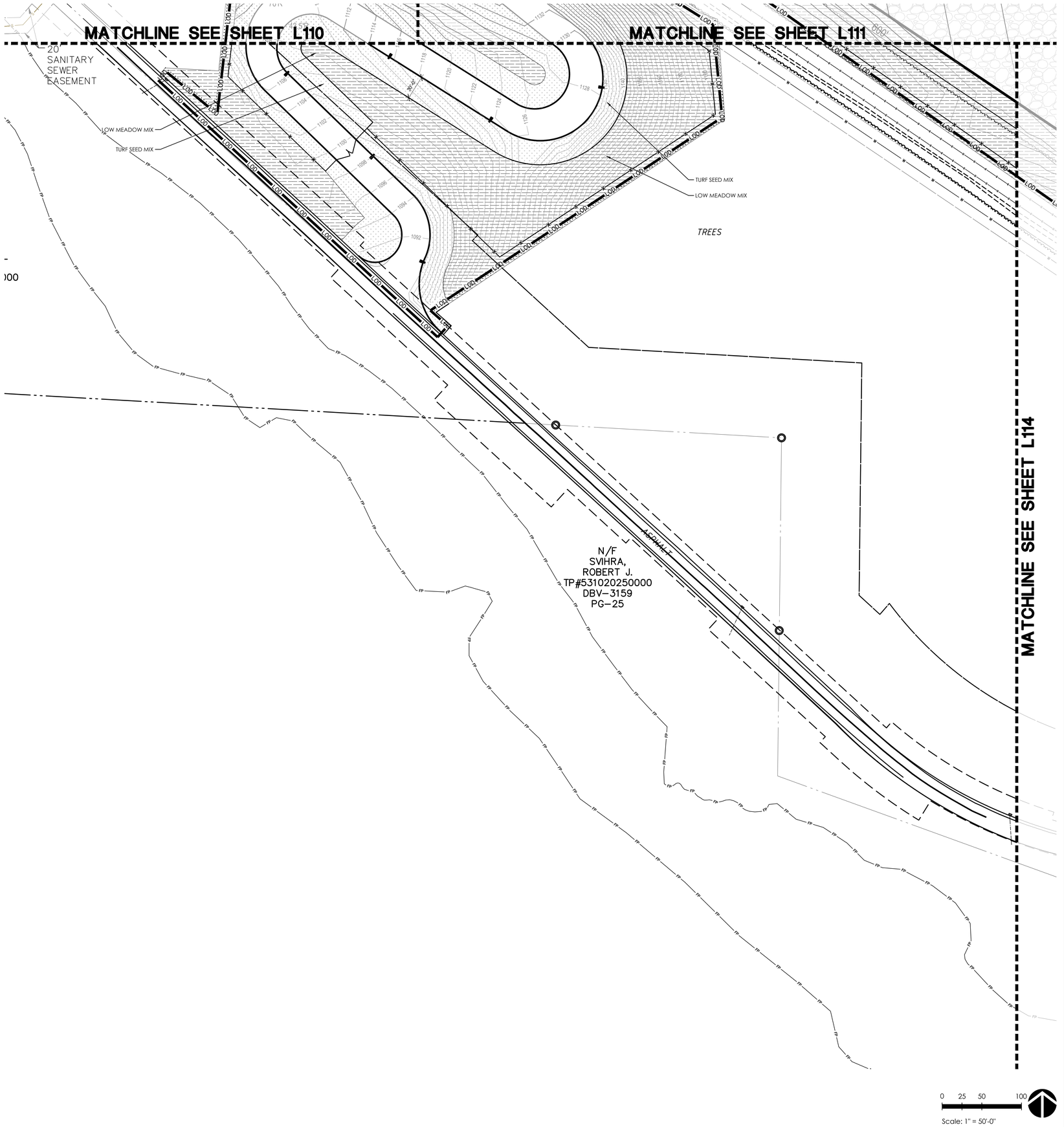

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- EVERGREEN TREE
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PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

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ATWELL
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ROCKVILLE, MD, 20852
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COMMONWEALTH OF PENNSYLVANIA
MYLES URBANO ABURTO
REGISTERED LANDSCAPE ARCHITECT
LA003533
EXPIRES

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Date: 06/26/2026

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#LA003533
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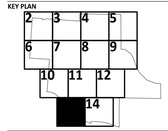

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LANDSCAPE PLAN

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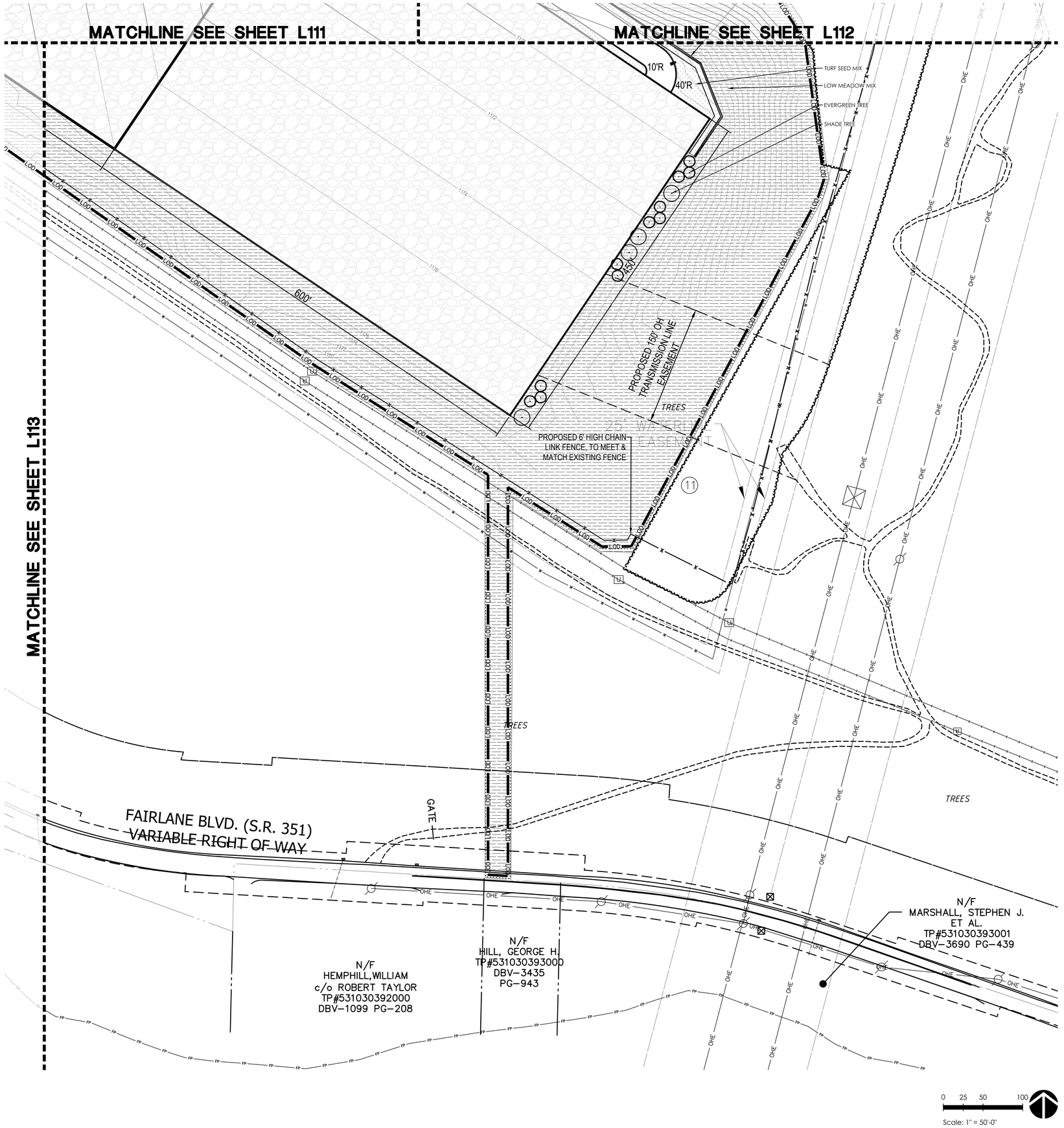
L113



CONCEPT PLANT SCHEDULE

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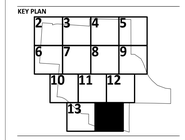

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LANDSCAPE PLAN

SHEET NUMBER

L114

PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD83

GENERAL PLANTING SPECIFICATIONS:

PART 1 - GENERAL

1-01 DESCRIPTION:

A. PROVIDE TREES, SHRUBS, PERENNIALS AND GROUNDCOVERS AS SHOWN AND SPECIFIED. THIS WORK INCLUDES:
   1. SPREADING OF TOPSOIL OR SOIL PREPARATION
   2. TREES, SHRUBS, PERENNIALS AND GROUNDCOVERS
   3. PLANTING MIXES
   4. MULCH AND PLANTING ACCESSORIES
   5. FERTILIZER AND HERBICIDE
   6. MAINTENANCE
   7. WARRANTY OF PLANT MATERIAL

B. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO BIDDING AND REPORT ANY DISCREPANCIES TO THE OWNER OR HIS/HER REPRESENTATIVE.

1-02 QUALITY ASSURANCE:

A. COMPLY WITH SITE WORK REQUIREMENTS

B. PLANT NAMES INDICATED MUST COMPLY WITH 'STANDARDIZED PLANT NAMES' AS ADOPTED BY THE LATEST EDITION OF THE AMERICAN JOINT COMMITTEE OF HORTICULTURAL NOMENCLATURE. NAMES OF VARIETIES WHICH ARE NOT LISTED SHOULD CONFORM WITH THOSE GENERALLY ACCEPTED BY THE NURSERY TRADE. STOCK SHOULD BE LEGIBLY TAGGED.

C. ALL PLANT MATERIALS SHALL CONFORM TO THE 'AMERICAN STANDARDS FOR NURSERY STOCK' (ASNS), LATEST EDITION, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, WASHINGTON, D.C.

D. ALL PLANT MATERIAL SHALL BE GROWN AND SUPPLIED WITHIN A 50 MILE RADIUS OF THE PROJECT FOR A MINIMUM OF TWO FULL GROWING SEASONS.

E. ADHERE TO SIZING REQUIREMENTS AS LISTED IN THE PLANT LIST AND/OR BID FORM FOR THE PROJECT. A PLANT SHALL BE MEASURED IN ITS NATURAL STANDING POSITION.

F. STOCK THAT IS FURNISHED SHALL BE AT LEAST THE MINIMUM SIZE SHOWN. WITH PERMISSION OF THE LANDSCAPE ARCHITECT, SUBSTITUTION FROM THE SPECIFIED PLANT LIST WILL BE ACCEPTED ONLY WHEN SATISFACTORY EVIDENCE IN WRITING IS SUBMITTED TO THE LANDSCAPE ARCHITECT, SHOWING THAT THE PLANT SPECIFIED IS NOT AVAILABLE. REQUESTS FOR APPROVAL OF SUBSTITUTE PLANT MATERIAL SHALL INCLUDE COMMON AND BOTANICAL NAMES AND SIZE OF SUBSTITUTE MATERIAL. ONLY THOSE SUBSTITUTIONS OF AT LEAST EQUIVALENT SIZE AND CHARACTER TO THAT OF THE SPECIFIED MATERIAL WILL BE APPROVED. STOCK WHICH IS LARGER THAN THAT WHICH IS SPECIFIED IS ACCEPTABLE WITH PERMISSION OF THE LANDSCAPE ARCHITECT, PROVIDING THERE IS NO ADDITIONAL COST AND THAT THE LARGER PLANT MATERIAL WILL NOT BE CUT DOWN IN ORDER TO CONFORM TO THE SIZE INDICATED.

G. ALL SHRUBS SHALL BE DENSE IN FORM. SHRUB LINERS DO NOT MEET THESE SPECIFICATIONS. SHRUBS SPECIFIED BY HEIGHT SHALL HAVE A SPREAD THAT IS EQUAL TO THE HEIGHT MEASUREMENT. SHRUBS WHICH ARE SPECIFIED BY SPREAD SHALL EXHIBIT THE NATURAL GROWTH HABIT OF THE PLANT BY HAVING A GREATER SPREAD THAN HEIGHT.

H. ALL PLANT MATERIALS ARE SUBJECT TO INSPECTION AND APPROVAL. THE LANDSCAPE ARCHITECT AND OWNER RESERVE THE RIGHT TO SELECT AND TAG ALL PLANT MATERIAL AT THE NURSERY PRIOR TO PLANTING. THE LANDSCAPE ARCHITECT AND OWNER RESERVE THE RIGHT TO INSPECT PLANT MATERIAL FOR SIZE AND CONDITION OF ROOT SYSTEMS, THE PRESENCE OF INSECTS AND DISEASES, INJURIES AND LATENT DEFECTS (DUE TO CONTRACTOR NEGLIGENCE OR OTHERWISE), AND TO REJECT UNACCEPTABLE PLANT MATERIAL AT ANY TIME DURING PROGRESS OF THE PROJECT.

I. CONTAINER GROWN DECIDUOUS AND/OR EVERGREEN SHRUBS WILL BE ACCEPTABLE IN LIEU OF BALLED AND BURLAPPED SHRUBS SUBJECT TO SPECIFIED LIMITATIONS FOR CONTAINER GROWN STOCK. SIZE OF CONTAINER GROWN MATERIAL MUST CONFORM TO SIZE/HEIGHT REQUIREMENTS OF PLANT LIST.

1-03 DELIVERY, STORAGE & HANDLING:

A. FERTILIZER SHALL BE DELIVERED IN ORIGINAL, UNOPENED AND UNDAMAGED PACKAGING. CONTAINERS SHALL DISPLAY WEIGHT, ANALYSIS AND MANUFACTURER'S NAME. STORE FERTILIZER IN A MANNER THAT WILL PREVENT WETTING AND DETERIORATION.

B. TAKE ALL PRECAUTIONS CUSTOMARY CONCERNING PROPER TRADE PRACTICE IN PREPARING PLANTS FOR TRANSPORT. PLANTS SHALL BE DUG, PACKED AND TRANSPORTED WITH CARE TO ENSURE PROTECTION AGAINST INJURY. INSPECTION CERTIFICATES REQUIRED BY LAW SHALL ACCOMPANY EACH SHIPMENT INVOICE OR ORDER TO STOCK AND ON ARRIVAL, THE CERTIFICATE SHALL BE FILED WITH THE LANDSCAPE ARCHITECT . ALL PLANTS MUST BE PROTECTED FROM DRYING OUT. IF PLANT MATERIAL CANNOT BE PLANTED IMMEDIATELY UPON DELIVERY, SAID MATERIAL SHOULD BE PROPERLY PROTECTED IN A MANNER THAT IS ACCEPTABLE TO THE LANDSCAPE ARCHITECT . HEELED-IN PLANTS MUST BE WATERED DAILY. NO PLANT SHALL BE BOUND WITH ROPE OR WIRE IN A MANNER THAT COULD STRIP BARK OR BREAK OR SHEAR BRANCHES.

C. PLANT MATERIAL TRANSPORTED ON OPEN VEHICLES SHOULD BE COVERED WITH A PROTECTIVE COVERING TO PREVENT WIND BURN.

D. DRY, LOOSE TOPSOIL SHALL BE PROVIDED FOR PLANTING BED MIXES. MUDDY OR FROZEN TOPSOIL IS UNACCEPTABLE AS WORKING WITH MEDIUM IN THIS CONDITION WILL DESTROY ITS STRUCTURE, MAKING ROOT DEVELOPMENT MORE DIFFICULT.

1-04 PROJECT CONDITIONS:

A. NOTIFY LANDSCAPE ARCHITECT AT LEAST SEVEN (7) WORKING DAYS PRIOR TO INSTALLATION OF PLANT MATERIAL.

B. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ALL EXISTING ABOVE AND BELOW GROUND UTILITIES. UTILITIES CAN BE LOCATED AND MARKED (IN ILLINOIS) BY CALLING J.U.L.I.E. AT (800)892-0123.

C. THE CONTRACTOR SHALL PROVIDE, AT HIS/HER OWN EXPENSE, PROTECTION AGAINST TRESPASSING AND DAMAGE TO SEEDED AREAS, PLANTED AREAS, AND OTHER CONSTRUCTION AREAS UNTIL THE PRELIMINARY ACCEPTANCE. THE CONTRACTOR SHALL PROVIDE BARRICADES, TEMPORARY FENCING, SIGNS, AND WRITTEN WARNING OR POLICING AS MAY BE REQUIRED TO PROTECT SUCH AREAS. THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY THE OWNER AFTER SUCH WARNING HAS BEEN ISSUED.

D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF CROWNS, TRUNKS AND ROOTS OF EXISTING TREES, PLUS SHRUBS, LAWNS, PAVED AREAS AND OTHER LANDSCAPED AREAS THAT ARE TO REMAIN INTACT. EXISTING TREES, WHICH MAY BE SUBJECT TO CONSTRUCTION DAMAGE, SHALL BE BOXED, FENCED OR OTHERWISE PROTECTED BEFORE ANY WORK IS STARTED. THE OWNER DESIRES TO PRESERVE THOSE TREES WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION EXCEPT THOSE SPECIFICALLY INDICATED TO BE REMOVED ON THE DRAWINGS. THE CONTRACTOR SHALL ERECT PROTECTIVE TREE FENCING AND TREE ARMOR AT LOCATIONS INDICATED ON THE DRAWINGS AND AROUND ALL TREES ON SITE WHICH ARE TO BE PRESERVED. PROTECTIVE FENCING SHALL BE ERECTED BETWEEN THE LIMITS OF CONSTRUCTION AND ANY TREE PRESERVATION AREAS SHOWN ON THE DRAWINGS.

E. A COMPLETE LIST OF PLANTS INCLUDING A SCHEDULE OF SIZES, QUANTITIES AND OTHER REQUIREMENTS IS SHOWN ON THE DRAWINGS AND ON THE BID FORM. IN THE EVENT THAT QUANTITY DISCREPANCIES OR MATERIAL OMISSIONS OCCUR IN THE PLANT MATERIALS LIST, THE PLANTING PLANS SHALL GOVERN.

1-05 PRELIMINARY ACCEPTANCE:

A. ALL PLANTINGS SHALL BE MAINTAINED BY THE CONTRACTOR FOR A PERIOD OF 90 DAYS AFTER PRELIMINARY ACCEPTANCE BY THE OWNER OR HIS/HER REPRESENTATIVE. MAINTENANCE SHALL INCLUDE, BUT IS NOT LIMITED TO: MOWING AND EDGING TURF, PULLING WEEDS, WATERING TURF AND PLANT MATERIAL AND ANNUAL FLOWER MAINTENANCE.

1-06 WARRANTY:

A. ALL PLANT MATERIAL (EXCLUDING ANNUAL COLOR), SHALL BE WARRANTEED FOR ONE (1) YEAR AFTER THE END OF THE 90 DAY MAINTENANCE PERIOD. THE END OF THE MAINTENANCE PERIOD IS MARKED BY THE FINAL ACCEPTANCE OF THE CONTRACTOR'S WORK BY THE OWNER OR HIS/HER REPRESENTATIVE. PLANT MATERIALS WILL BE WARRANTEED AGAINST DEFECTS INCLUDING DEATH AND UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM ABUSE OR DAMAGE BY OTHERS, OR UNUSUAL PHENOMENA OR INCIDENTS WHICH ARE BEYOND THE CONTROL OF THE CONTRACTOR. THE WARRANTY COVERS A MAXIMUM OF ONE REPLACEMENT PER ITEM.

PART 2 - PRODUCTS

2-01 PLANT MATERIALS:

A. PLANTS: PROVIDE TYPICAL OF THEIR SPECIES OR VARIETY, WITH NORMAL, DENSELY DEVELOPED BRANCHES AND VIGOROUS, FIBROUS ROOT SYSTEMS. ONLY SOUND, HEALTHY, VIGOROUS PLANTS WHICH ARE FREE FROM SUNSCALD INJURIES, DISFIGURING KNOTS, FROST CRACKS, ABRASIONS OF THE BARK, PLANT DISEASES, INSECT EGGS, BORERS, AND ALL FORMS OF INFESTATION SHALL BE PROVIDED. ALL PLANTS SHALL HAVE A FULLY DEVELOPED FORM WITHOUT VOIDS AND OPEN PATCHES.
   1. BALLED AND BURLAPPED PLANTS SHALL HAVE A FIRM NATURAL BALL OF EARTH OF SUFFICIENT DIAMETER AND DEPTH TO ENCOMPASS A ROOT SYSTEM NECESSARY FOR A FULL RECOVERY OF THE PLANT. ROOT BALL SIZES SHALL COMPLY WITH THE LATEST EDITION OF THE 'AMERICAN STANDARDS FOR NURSERY STOCK' (ASNS). ROOT BALLS THAT ARE CRACKED OR MUSHROOMED ARE UNACCEPTABLE.
   2. CONTAINER GROWN STOCK SHOULD BE GROWN FOR AN AMOUNT OF TIME THAT IS OF SUFFICIENT LENGTH FOR THE ROOT SYSTEM TO HAVE DEVELOPED ENOUGH TO HOLD ITS SOIL TOGEHTER, FIRM AND WHOLE. PLANTS WILL NOT BE LOOSE IN THEIR CONTAINERS, NOR SHALL THEY BE POT-BOUND AND ALL CONTAINER GROWN STOCK WILL COMPLY WITH THE SIZES STATED ON THE PLANT LIST.
   3. NO EVIDENCE OF WOUNDS OR PRUNING CUTS SHALL BE ALLOWED UNLESS APPROVED BY THE LANDSCAPE ARCHITECT.
   4. EVERGREEN TREES SHALL BE BRANCHED TO THE GROUND, THE HEIGHT OF EVERGREEN TREES ARE DETERMINED BY MEASURING FROM THE GROUND TO THE FIRST LATERAL BRANCH CLOSEST TO THE TOP. HEIGHT AND/OR WIDTH OF OTHER TREES ARE MEASURED BY THE MASS OF THE PLANT NOT THE VERY TIP OF THE BRANCHES.
   5. SHRUBS AND SMALL PLANTS SHALL MEET THE REQUIREMENTS FOR SPREAD AND/OR HEIGHT INDICATED IN THE PLANT LIST. THE HEIGHT MEASUREMENT SHALL BE TAKEN FROM GROUND LEVEL TO THE AVERAGE HEIGHT OF THE TOP OF THE PLANT, NOT THE LONGEST BRANCH. SINGLE STEM OR THIN PLANTS WILL NOT BE ACCEPTED. SIDE BRANCHES SHALL BE FLUSHED WITH GROWTH AND HAVE GOOD FORM TO THE GROUND. PLANTS SHALL BE IN A MOIST, VIGOROUS CONDITION, FREE FROM DEAD WOOD, BRUISES OR OTHER ROOT OR BRANCH INJURIES.

2-02 ACCESSORIES:

A. TOPSOIL:
   1. TOPSOIL SHALL BE FERTILE, NATURAL TOPSOIL OF A LOAMY CHARACTER, WITHOUT ADMIXTURE OF SUBSOIL MATERIAL. TOPSOIL SHALL BE REASONABLY FREE FROM CLAY, LUMPS, COARSE SAND, STONES, PLANTS, ROOTS, STICKS AND OTHER FOREIGN MATERIALS WITH A PH BETWEEN 6.5 TO 7.0.

B. TOPSOIL FOR SEED AREAS SHALL BE A MINIMUM OF 6".

C. SOIL AMENDMENTS SHALL BE AS FOLLOWS:
   1. FOR TREES AND SHRUBS THE PLANT PIT WILL BE BACKFILLED WITH PULVERIZED BLACK DIRT.
   2. FOR PERENNIALS AND ORNAMENTAL GRASSES THE SOIL MIXTURE WILL BE AS FOLLOWS: CM-63 GENERAL PURPOSE PEAT BASED MIX AS SUPPLIED BY MIDWEST TRADING. TOP BEDS WITH 8" OF CM-63 AND TILL INTO EXISTING BEDS TO A DEPTH OF 8". SOIL MIXTURES ARE AVAILABLE FROM MIDWEST TRADING. MIDWEST TRADING, ST. CHARLES, IL 60174 (630) 365-1990

D. FERTILIZER:
   1. FOR TREES AND SHRUBS USE: 14-4-6 BRIQUETTES 17 G OR EQUIVALENT AVAILABLE FROM ARTHUR CLESEN, INC. FOLLOW MANUFACTURER'S RECOMMENDATION FOR APPLICATION. ARTHUR CLESEN, INC. 543 DIENS DRIVE, WHEELING, IL 60090 (847)537-2177
   2. FOR TURF AREAS USE 6-24-16 CLESEN FAIRWAY WITH MICRONUTRIENTS WITH MINOR ELEMENTS 3.0 % S, .02% B, .05% CU, 1.0% FE, .0006% MO, .10% MN AVAILABLE FROM ARTHUR CLESEN OR APPROVED EQUAL.

E. HERBICIDE:
   1. ROUND-UP OR APPROVED EQUAL

F. MULCH:
   1. BARK MULCH SHALL BE FINELY SHREDDED HARDWOOD BARK WHICH HAS BEEN SCREENED AND IS FREE OF ANY GREEN FOLIAGE, TWIGS, ROCKS, SAWDUST, WOOD SHAVINGS, GROWTH OR GERMINATION INHIBITING INGREDIENTS, OR OTHER FOREIGN MATERIALS. BARK MULCH IS AVAILABLE FROM MIDWEST TRADING.
   2. MUSHROOM COMPOST AS AVAILABLE FROM MIDWEST TRADING.

G. WATER:
   1. WATER SERVICE WILL BE AVAILABLE ON THE SITE, WITH THE COST OF WATER BEING PAID BY THE OWNER. TRANSPORTING OF THE WATER FROM THE SOURCE TO THE WORK AREAS SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR. ALL NECESSARY HOSE, PIPING, TANK TRUCK, ETC. SHALL BE SUPPLIED BY THE LANDSCAPE CONTRACTOR.

H. GUYING:
   1. STAKES: 5/8" X 40" STEEL EYE ANCHOR WITH 4" HELIX
   2. CABLE:
      a. TREES UNDER 5": FLEXIBLE 1/8" GALVANIZED AIRCRAFT CABLE, 7X7 STRAND OR APPROVED EQUAL
      b. TREES 5" AND OVER: FLEXIBLE 3/16" GALVANIZED AIRCRAFT CABLE, 7X7 STRAND OR APPROVED EQUAL.
   3. TURNBUCKLES: 5/16", EYE AND EYE, WITH 4" TAKEUP.
   4. HOSE: NEW TWO-PLY REINFORCED RUBBER HOSE, MINIMUM 1/2" I.D.

I. TREE WRAP: BURLAP TREE WRAP 4" WIDE.

J. TWINE: SOFT NURSERY JUTE.

PART 3 - INSTALLATION OF PLANT MATERIAL

3-01 FIELD VERIFICATION:

A. EXAMINE PROPOSED PLANTING AREAS AND CONDITIONS OF INSTALLATION. DO NOT START PLANTING WORK UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED.

3-02 PREPARATION:

A. ALL PLANTING TECHNIQUES AND METHODS SHALL BE CONSISTENT WITH THE LATEST EDITION OF 'HORTICULTURE STANDARDS OF NURSERYMEN, INC.' AND AS DETAILED ON THESE DRAWINGS.

B. PLANTING SHALL BE PERFORMED BY EXPERIENCED WORKMEN FAMILIAR WITH PLANTING PROCEDURES UNDER THE SUPERVISION OF A QUALIFIED SUPERVISOR.

C. ALL UNDERGROUND UTILITIES MUST BE LOCATED AND MARKED CLEARLY.

D. APPLY ROUND-UP OR APPROVED EQUIVALENT TO KILL ANY EXISTING VEGETATION IN ALL AREAS TO BE PLANTED. CONFIRM LENGTH OF WAITING PERIOD BETWEEN CHEMICAL APPLICATION AND PLANT INSTALLATION WITH MANUFACTURER. DO NOT BEGIN PLANTING OPERATIONS UNTIL PRESCRIBED POST-APPLICATION WAITING PERIOD HAS ELAPSED. TAKE EXTREME CARE TO AVOID CHEMICAL DRIFT TO ADJOINING PROPERTIES OF LANDSCAPE PLANTINGS.

E. PRIOR TO ALL PLANTING, ROTOTILL ALL AREAS TO BE LANDSCAPED TO PREPARE FOR PLANT INSTALLATION TO A MINIMUM DEPTH OF 12". ELIMINATE UNEVEN AREAS AND LOW SPOTS. MAINTAIN LINES, LEVELS, PROFILES AND CONTOUR. CHANGES IN GRADE ARE TO BE GRADUAL, BLEND SLOPES INTO LEVEL AREAS. REMOVE ALL DEBRIS, WEEDS AND UNDESIRABLE PLANTS AND THEIR ROOTS FROM AREAS TO BE PLANTED. REMOVE ALL CONCRETE SLAG LARGER THAN 2" IN DIAMETER.

F. TOPSOIL SHALL BE SPREAD OVER THE SITE AT A MINIMUM DEPTH OF 6". FOR THOSE AREAS WHICH ARE INDICATED AS PRAIRIE OR NATURAL AREAS ON THE DRAWINGS, A TOPSOIL DEPTH OF 18" IS RECOMMENDED WHERE POSSIBLE.

G. IT SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO PREPARE ALL SEEDED AREAS BY DISKING AND RAKING PRIOR TO PLANTING SEED. SOIL SHALL BE LOOSENED AND SCARIFIED TO A MINIMUM DEPTH OF 6". FINE GRADING OF ALL SEEDED AREAS IS REQUIRED. MAXIMUM SIZE OF STONE OR TOPSOIL LUMP IS 1".

H. LOCATE ALL PLANT MATERIAL AS INDICATED OR AS APPROVED IN THE FIELD BY THE LANDSCAPE ARCHITECT. IF OBSTRUCTIONS ARE ENCOUNTERED WHICH ARE NOT SHOWN ON THE DRAWINGS, THEN DO NOT PROCEED WITH PLANTING OPERATIONS UNTIL ALTERNATE PLANT LOCATIONS HAVE BEEN SELECTED.

I. PLANTING HOLES SHALL BE CONSTRUCTED AS SHOWN ON THE PLANTING DETAILS. HOLES SHALL BE HAND DUG OR MACHINE DUG. GREAT CARE WILL BE TAKEN TO NOT EXCAVATE THE HOLE DEEPER THAN THE ROOT BALL AND THE DIAMETER SHALL BE A MINIMUM OF TWO TIMES THE ROOT BALL WIDTH. REMOVE ANY MATERIALS ENCOUNTERED IN EXCAVATION THAT MAY BE INJURIOUS TO PLANT GROWTH, INCLUDING STONES LARGER THAN 2" IN DIAMETER OR OTHER DEBRIS. SOIL TO BE USED AS BACKFILL SHOULD BE PULVERIZED.

J. PROVIDE PRE-MIXED PLANTING MIXTURE FOR USE AROUND ROOT SYSTEMS AND ROOT BALLS OF THE PLANTS. THE MIXTURES ARE OUTLINED IN SECTION B OF PART 2-02.

K. PRIOR TO PLANTING, PROVIDE ADDITIONAL TOPSOIL TO ALL PLANTING BEDS TO BRING THE FINISH GRADE OF THE BED TO 2" ABOVE LAWN GRADE AND TO FINISH GRADE OF ADJACENT HARD SURFACE GRADES.

L. ADD 2" THICKNESS OF MUSHROOM COMPOST TO ALL ANNUAL, PERENNIAL AND GROUNDCOVER BEDS. FINISH GRADE BED AND INSTALL PLANTS.

3-03 PLANTING PROCEDURES:

A. SET PLANT MATERIAL IN THE PLANTING HOLE TO PROPER GRADE AND ALIGNMENT. SET PLANTS UPRIGHT AND PLUMB. SET PLANT MATERIAL 2" ABOVE THE ADJACENT FINISH GRADE. REMOVE BURLAP FROM TOP 1/3 OF ROOT BALL. REMOVE TREATED BURLAP (GREEN). CUT AND REMOVE OR CUT AND FOLD DOWN UPPER HALF OF WIRE BASKET, DEPENDENT UPON TREE SIZE. BACKFILL HOLE BY FIRMLY TAMPING SOIL TO AVOID ANY AIR POCKETS OR VOIDS.

B. SET BALLED AND BURLAPPED PLANTS IN THE PLANTING HOLE AND COMPACT 8" OF SOIL AROUND THE BASE OF THE BALL. BACKFILL REMAINING SPACE WITH PLANTING MIXTURE. WATER PLANTS IMMEDIATELY AFTER PLANTING TO ELIMINATE ALL VOIDS AND THOROUGHLY SOAK THE PLANT ROOT BALL.

C. SPACE GROUNDCOVER PLANTS ACCORDING TO DIMENSIONS GIVEN ON THE PLANS. ADJUST SPACING AS NECESSARY TO EVENLY FILL PLANTING BED WITH INDICATED NUMBER OF PLANTS. PLANT TO WITHIN 18" OF THE TRUNKS OF TREES AND SHRUBS OR AT THE EDGE OF THE PLANT BALL, WHICHEVER IS CLOSEST. PLANT TO WITHIN 12" OF EDGE OF BED.

D. MULCHING:
   1. INSTALL 4" DEPTH OF MULCH AROUND ALL TREE AND SHRUB BEDS AS INDICATED ON DRAWINGS OR PLANTING DETAILS. MULCH SHRUB PLANTING AREAS AS CONTINUOUS BEDS. DO NOT PLACE MULCH DIRECTLY AGAINST TREE TRUNK; FORM MULCH TO CREATE AN INVERTED CONE AROUND TRUNK.
   2. MULCH PERENNIAL, GROUNDCOVER AND ANNUAL PLANTING BEDS WITH 2" MUSHROOM COMPOST. WATER MULCHED AREAS THOROUGHLY AFTER PLACING MULCH.

E. TREE WRAPPING IS NOT REQUIRED, UNLESS THE CONTRACTOR FEELS IT IS NECESSARY DUE TO CHARACTERISTICS OF A PARTICULAR SPECIES OR PAST EXPERIENCE WITH THE SPECIES. THE LANDSCAPE ARCHITECT WILL BE NOTIFIED AS TO WHICH TREES ARE TO BE WRAPPED AND SHALL INSPECT THE TRUNK(S) BEFORE WRAPPING. TREE WRAP WILL NOT BE USED TO COVER DAMAGE OR DEFECTS. WHEN WRAPPING IS DONE, TRUNKS WILL BE WRAPPED SPIRALLY WITH APPROVED TREE WRAPPING TAPE THAT IS NOT LESS THAN 4" WIDE, AND SECURELY TIED WITH SUITABLE CORD AT THE TOP, BOTTOM AND 2" INTERVALS ALONG THE TRUNK. WRAP FROM GROUND TO THE HEIGHT OF THE FIRST BRANCH.

F. STAKING AND GUYING OF TREES IS OPTIONAL. IF THE CONTRACTOR CHOOSES TO STAKE ALL OR PART OF THE TREES, HE/SHE SHALL USE THE METHOD SPECIFIED IN THE PLANTING DETAILS. ONE (1) STAKE IS TO BE USED ON TREES OF 1" CALIPER AND UNDER, OR 4' HEIGHT AND UNDER. TWO (2) STAKES ARE TO BE USED ON TREES OF 1" TO 2 3/4" CALIPER. GUY TREES OF 3" CALIPER OR LARGER AT THREE (3) PER TREE. THE ROOT BALL WILL NOT BE PIERCED WITH A STAKE. STAKES ARE TO BE DRIVEN AT LEAST EIGHTEEN (18) INCHES INTO SUBSOIL BELOW THE PLANTING HOLE. STAKES AND WIRE ATTACHMENTS SHALL BE REMOVED AFTER THREE MONTHS FOR SPRING PLANTED MATERIAL AND BY THE FOLLOWING MAY FOR FALL PLANTED STOCK BY THE CONTRACTOR. STAKING AND GUYING SHOULD BE DONE IMMEDIATELY AFTER LAWN SEEDING OR SODDING OPERATIONS.

G. SEEDING OF SPECIFIED LAWN AREAS ON PLANS WILL BE TREATED AS FOLLOWS.
   1. TOPSOIL SHALL BE SPREAD OVER ALL AREAS TO BE SEEDED TO A MINIMUM DEPTH OF 6" WHEN COMPACTED (TO BE PERFORMED BY OTHERS).
   2. SEED MIXTURE AND APPLICATION RATE - USE FIELD OF DREAMS GAMEDAY SEED MIX (70% BLUEGRASS / 30% RYEGRASS) AS SUPPLIED BY NATIONAL SEED. APPLY AT A RATE OF 3-4 LBS./1000 S.F.
   3. APPLY FERTILIZERS AND CONDITIONERS AT THE RATE SPECIFIED PER SOIL TEST FINDINGS. IN LIEU OF SOIL TEST RESULTS, APPLY TWO (2) TONS OF GROUND AGRICULTURAL LIMESTONE AND 1000 LBS. 10-10-10 OR EQUIVALENT ANALYSIS FERTILIZER PER ACRE. AT LEAST 40% OF THE FERTILIZER NITROGEN SHALL BE OF AN ORGANIC ORIGIN.
   4. SOIL PREPARATION AREAS WHERE VEHICULAR TRAFFIC HAS COMPACTED THE SOIL SHALL BE LOOSENED/SCARIFIED TO A MINIMUM DEPTH OF 6" BEFORE FERTILIZING AND SEEDING. FINE GRADING OF ALL SEEDED AREAS IS REQUIRED. MAXIMUM SIZE OF STONE OR TOPSOIL LUMP IS 1".
   5. WATERING SEEDED AREAS SHALL BE DONE TO ENSURE PROPER GERMINATION. ONCE SEEDS HAVE GERMINATED, WATERING MAY BE DECREASED BUT THE SEEDLINGS MUST NEVER BE ALLOWED TO DRY OUT COMPLETELY. FREQUENT WATERING SHOULD BE CONTINUED APPROXIMATELY FOUR (4) WEEKS AFTER GERMINATION OR UNTIL GRASS HAS BECOME SUFFICIENTLY ESTABLISHED TO WARRANT WATERING ON AN 'AS NEEDED' BASIS.
   6. TURF IS BEING ESTABLISHED ON A VARIETY OF SLOPE CONDITIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND IMPLEMENT WHATEVER PROCEDURES HE/SHE DEEMS NECESSARY TO ESTABLISH THE TURF AS PART OF HIS/HER WORK. SEEDED AREAS WILL BE ACCEPTED WHEN ALL AREAS SHOW A UNIFORM STAND OF THE SPECIFIED GRASS IN HEALTHY CONDITION AND AT LEAST 90 DAYS HAVE ELAPSED SINCE THE COMPLETION OF THIS WORK. THE CONTRACTOR SHALL SUBMIT WITH HIS/HER BID A DESCRIPTION OF THE METHODS AND PROCEDURES HE/SHE INTENDS TO USE.

H. EROSION CONTROL BLANKET
   1. EROSION CONTROL BLANKET SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION IN ALL AREAS SHOWN ON THE PLAN.
   2. INSTALL S-75 EROSION CONTROL BLANKET AS MANUFACTURED BY NORTH AMERICAN GREEN OR APPROVED EQUAL.
   3. BLANKET SHOULD BE PREMARKED WITH STAPLE PATTERN.
   4. STAPLES SHOULD BE 8" WIRE STAPLES, APPLIED AT TWO (2) PER SQUARE YARD MINIMUM.
   5. SUITABLE EROSION CONTROL PRACTICES SHALL BE MAINTAINED BY THE CONTRACTOR IN ACCORDANCE WITH ILLINOIS URBAN MANUAL AND ALL APPLICABLE SOIL EROSION AND SEDIMENTATION CONTROL ORDINANCES AND THE PLANS.

I. SODDING OF SPECIFIED LAWN AREAS ON PLANS WILL BE COMPLETED AS FOLLOWS:
   1. RAKE SOIL SURFACE TO RECEIVE SOD TO COMPLETELY REMOVE ANY SOIL CRUST NO MORE THAN ONE DAY PRIOR TO LAYING SOD.
   2. MOISTEN PREPARED SURFACE IMMEDIATELY PRIOR TO LAYING SOD. WATER THOROUGHLY AND ALLOW SURFACE MOISTURE TO DRY BEFORE PLANTING LAWNS. DO NOT CREATE A MUDDY SOIL CONDITION.
   3. SOD SHALL BE LAID WITHIN 24 HOURS FROM THE TIME OF STRIPPING. DO NOT PLANT DORMANT SOD OR IF THE GROUND IS FROZEN.
   4. LAY SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD STRIPS; DO NOT OVERLAP. STAGGER STRIPS TO OFFSET JOINTS IN ADJACENT COURSES. WORK FROM BOARDS TO AVOID DAMAGE TO SUBGRADE OR SOD. WORK SIFTED SOIL INTO MINOR CRACKS BETWEEN PIECES OF SOD; REMOVE EXCESS TO AVOID SMOTHERING OF ADJACENT SOD.
   5. PLACE TOP ELEVATION OF SOD 1/2 INCH BELOW ADJOINING EDGING OR PAVING.
   6. WATER SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING.
   7. AFTER SOD AND SOIL HAVE DRIED, ROLL SEEDED AREAS TO ENSURE A GOOD BOND BETWEEN THE SOD AND SOIL, AND TO REMOVE MINOR DEPRESSIONS AND IRREGULARITIES.
   8. SODDED SLOPES 3:1 OR GREATER SHALL BE STAKED TO PREVENT EROSION AND WASHOUT.
   9. WARRANTY SODDING FOR A PERIOD OF ONE (1) YEAR FROM THE END OF THE 90 DAY MAINTENANCE PERIOD. IF SOD FAILS OR LACKS VIGOR AND FULL GROWTH AS DETERMINED BY THE LANDSCAPE ARCHITECT, THE CONTRACTOR WILL REPEAT SITE PREPARATION OPERATIONS AND RE-SOD AFFECTED AREAS AT THE CONTRACTOR'S EXPENSE.
   10. NOTE: SOD SHALL BE A PREMIUM KENTUCKY BLUEGRASS BLEND, AND IS REQUIRED IN ALL AREAS INDICATED ON THE PLANS AS WELL AS AREAS WHICH HAVE BEEN AFFECTED BY CONSTRUCTION. SOD CAN BE PLACED AS LONG AS WATER IS AVAILABLE AND THE GROUND SURFACE CAN BE PROPERLY PREPARED. SOD SHALL NOT BE LAID ON FROZEN OR SNOW-COVERED GROUND. SOD SHALL BE STRONGLY ROOTED, NOT LESS THAN TWO (2) YEARS OLD AND FREE OF WEEDS AND UNDESIRABLE NATIVE GRASSES. SOD SHOULD BE MACHINE CUT TO PAD THICKNESS OF 3/4" (PLUS OR MINUS 1/4"), EXCLUDING TOP GROWTH AND THATCH. PROVIDE ONLY SOD CAPABLE OF VIGOROUS GROWTH AND DEVELOPMENT WHEN PLANTED (VIABLE, NOT DORMANT). PROVIDE SOD OF UNIFORM PAD SIZES WITH MAXIMUM 5% DEVIATION IN EITHER LENGTH OR WIDTH. BROKEN PADS OR PADS WITH UNEVEN ENDS WILL NOT BE ACCEPTABLE. SOD PADS INCAPABLE OF SUPPORTING THEIR OWN WEIGHT WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10% OF PAD WILL NOT BE ACCEPTED.

J. TIMING OF PLANT MATERIAL AND SEEDING OPERATIONS:
   1. SEEDING OF SPECIFIED AREAS SHALL OCCUR WHEN THE SOIL TEMPERATURE IS ABOVE 55° F. NO SEED SHALL BE SOWN DURING PERIODS OF HIGH WINDS, OR WHEN THE GROUND IS NOT IN PROPER CONDITION FOR SEEDING (SEE SECTION 3-02 (G)). SEEDING OPERATIONS FOR THE SPECIFIED MIXES SHALL OCCUR IN THE SPRING TIME FRAME OF APRIL 15 THROUGH JUNE 30 AND IN THE SUMMER TIME FRAME OF AUGUST 15 THROUGH DECEMBER 1. THE MIXES CONTAINING BLUEGRASS AND FESCUE SEED MUST HAVE SIX WEEKS TO HARDEN OFF FOR WINTER SURVIVAL.
   2. SOD SHALL BE INSTALLED WHEN THE GROUND IS NOT FROZEN OR SNOW COVERED AND TEMPERATURES ARE LESS THAN 80° F. IT SHALL NOT BE PLACED DURING A PERIOD OF EXTENDED DROUGHT.
   3. HERBACEOUS ORNAMENTAL PLANTS SHALL BE PLANTED BETWEEN MAY 1 AND JUNE 15 OR BETWEEN AUGUST 15 AND DECEMBER 1.
   4. SPRING PLANTING OF WOODY ORNAMENTAL PLANTS SHALL BE PERFORMED FROM THE TIME THE SOIL CAN BE EASILY WORKED UNTIL JUNE 1, EXCEPT THAT EVERGREEN PLANTING SHALL END ON MAY 15. OAK, HAWTHORN AND RED MAPLE SPECIES WILL ONLY BE PLANTED DURING THIS SPRING PLANTING PERIOD. FALL PLANTING WILL BEGIN AUGUST 15 AND WILL CONTINUE UNTIL THE GROUND CANNOT BE WORKED SATISFACTORILY, EXCEPT THAT EVERGREE