OWNER

KR&S REALTY LTD 1800 MILL ROAD LEBANON, PA 17042

SOURCE OF TITLE

DEED BOOK: 2030 PAGE: 5352 PARCEL: 27-2352557-376465 ACRES: 55.19 ACRES

EQUITABLE OWNER

INCH'S PROPERTIES, LLC 2950 LEWISBERRY ROAD YORK, PA 17404 CONTACT. ADAM WHALEN 717-755-1565

ZONING COMPLIANCE CHART

LOT AREA LOT WIDTH LOT COVERAGE FRONT YARD SETBACK SIDE YARD SETBACK REAR YARD SETBACK

ZONING DISTRICT: "I" INDUSTRIAL ZONING DISTRICT <u>REQUIRED</u> 2 ACRES 200' 50% 100' 20' (EACH SIDE) 30' 75'

EXISTING: 90.37 AC.

INDUSTRIAL (I)

SITE DATA

BUILDING HEIGHT

SITE AREA: SITE ZONING: EXISTING USE: PROPOSED USE: SOURCE OF WATER: SOURCE OF SEWER: SITE ADDRESS:

AGRICULTURAL WAREHOUSE & TRAILER STORAGE PUBLIC PUBLIC 2225 E CUMBERLAN STREET, LEBANON, PA 17042

DEED BOOK: 2091 PAGE: 4724 PARCEL: 27–2351679–378229

ACRES: 35.18 ACRES

PARKING DATA

NORTH LEBANON TOWNSHIP MIN. LOADING & UNLOADING SPACE DIMENSIONS - 12'x55' (660s.f.)

EMPLOYEES: 300

STECKBECK ENGINEERING & SURVEYING, INC., HEREBY STATES THAT, PURSUAN TO THE PROVISIONS OF ACT NO. 287 OF 1974 AS AMENDED BY ACT 121 OF 2008 OF THE PENNSYLVANIA GENERAL ASSEMBLY, IT HAS PERFORMED THE FOLLOWING IN PREPARING THESE DRAWINGS REQUIRING EXCAVATION OR DEMOLITION WORK AT SITES WITHIN THE POLITICAL SUBDIVISION(S) SHOWN ON THE DRAWINGS: (1) PURSUANT TO SECTION 4, CLAUSE (2) OF SAID ACT, STECKBECK

(1) PORSUMNT TO SECTION 4, CLAUSE (2) OF SAID ACT, STECKBECK ENGINEERING & SURVEYING, INC. REQUESTED THE LINE AND FACILITY INFORMATION PRESCRIBED BY SECTION 2, CLAUSE (4) FROM A ONE CALL SYSTEM NOT LESS THAN TEN NOR MORE THAN NINETY WORKING DAYS BEFORE FINAL DESIGN IS TO BE COMPLETED.

(2) PURSUANT TO SECTION 4, CLAUSE (3) OF SAID ACT, STECKBECK ENGINEERING & SURVEYING, INC. SHOWN UPON THE DRAWING(S) THE POSITION AND TYPE OF EACH FACILITY OWNERS LINE, DERIVED PURSUANT TO THE REQUEST MADE AS REQUIRED BY SECTION 4, CLAUSE (2), AND THE NAME OF THE FACILITY OWNER, AND THE FACILITY OWNERS DESIGNATED OFFICE ADDRESS AND THE TELEPHONE NUMBER AS SHOWN ON THE LIST REFERRED TO IN SECTION 3

(3) PURSUANT TO SECTION 4, CLAUSE (4) OF SAID ACT, STECKBECK ENGINEERING & SURVEYING, INC. MADE A REASONABLE EFFORT TO PREPARE THE CONSTRUCTION DRAWING(S) TO AVOID DAMAGE TO AND MINIMIZE INTERFERENCE WITH A FACILITY OWNERS FACILITIES IN THE CONSTRUCTION REA BY MAINTAINING AN EIGHTEEN-INCH CLEARANCE OF THE FACILITY OWNERS FACILITIES WHERE POSSIBLE. (4) PURSUANT TO SECTION 4, CLAUSE (5) OF SAID ACT, STECKBECK

ÈNGINEERING & SURVEYING, INC., SHALL BE DEEMED TO HAVE MET THE OBLIGATIONS OF CLAUSE (2) BY CALLING A ONE CALL SYSTEM AND SHOWING AS PROOF THE SERIAL NUMBER OF THE ONE CALL NOTICE ON THE DRAWING(S). NORTH LEBANON TOWNSHIP LEBANON COUNTY ID NO. 20220833196.

REPRESENTATION, WARRANTY, ASSURANCE OR GUARANTEE THAT THE INFORMATION RECEIVED PURSUANT TO SAID REQUEST AND AS REFLECTED ON THESE DRAWINGS IS CORRECT OR ACCURATE, BUT STECKBECK ENGINEERING & SURVEYING, INC. IS REFLECTING SAID INFORMATION ON THESE DRAWINGS ONLY DUE TO THE REQUIREMENTS OF THE SAID ACT 187, DECEMBER 19, 1996.

AND STECKBECK ENGINEERING & SURVEYING, INC. DOES NOT MAKE ANY

CITY OF LEBANON AUTHORITY 2311 RIDGEVIEW ROAD LEBANON, PA 17042 CONTACT – BOB SENTZ BSENTZ@LEBANONAUT HORITY.ORG UGI UTILITIES INC

CONTACT – STEPHEN BATEMAN

1.301 AIP DR

NORTH LEBANON TOWNSHIP 725 KIMMERLINGS ROAD LEBANON, PA 17046 CONTACT – OFFICE PERSONNEL (MOLLY, ERIKA OR THERESA) VERIZON PENNSYLVANIA LLC 1026 HAY STREET PITTSBURGH, PA 15221 CONTACT - DEBORAH BARUM deborah.d.delia@verizon.com

FIRST ENERGY PENELEC 21 S. MAIN STREET AKRON, OH. 44308 CONTACT – CARA WARREN CARAWARREN@FIRSTENERGYCORP.COM

MIDDLETOWN, PA 17057

sbateman@ugi.com

TEXAS EASTERN/SPECTRA SUITE 400 2601 MARKET PLACE HARRISBURG, PA 17110 CONTACT - RYAN LUMBATIS Rvan.Lumbatis@enbridge.com

CONTACT - LOCATE DESK PERSONNEL locate.desk@windstream.com

DATE

NOTARY PUBLIC

1450 CENTER POINT ROAD HIAWATHA, IA 52233

WINDSTREAM

OWNERS CERTIFICATION AND ACKNOWLEDGMENT COMMONWEALTH OF PENNSYLVANIA COUNTY OF _____

ON THIS, THE _____ DAY OF _____, 2022, BEFORE ME, <u>A</u> NOTARY PUBLIC , THE UNDERSIGNED OFFICER, PERSONALLY APPEARED _ KNOWN TO ME (OR SATISFACTORILY PROVEN) TO BE THE PERSON(S) WHO BEING DULY SWORN ACCORDING TO LAW, DEPOSE AND SAY THAT HE/THEY ARE THE OWNERS OF THE PROPERTY SHOWN ON THIS PLAN, THAT THE PLAN THEREOF WAS MADE AT HIS/THEIR DIRECTION, THAT HE/THEY ACKNOWLEDGE THE SAME TO BE HIS/THEIR ACT AND PLAN AND DESIRES THE SAME TO BE RECORDED, AND THAT ALL STREETS AND OTHER PROPERTY IDENTIFIED AS PROPOSED PUBLIC PROPERTY (EXCEPTING THOSE AREAS LABELED "NOT FOR DEDICATION") ARE HEREBY DEDICATED TO PUBLIC USE.

Name/Title Company

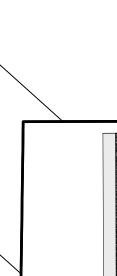
SERIAL NUMBER: 20220833196 NORTH LEBANON TWP) DATE: 03/24/2022

PLANNING COMMISSION TOWNSHIP OFFICE. DATE REVIEWED **CERTIFICATION OF PLAN ACCURACY** I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, THE PLAN SHOWN AND DESCRIBED HEREON IS TRUE AND CORRECT TO THE ACCURACY REQUIRED BY THE NORTH LEBANON TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE AND THE NORTH LEBANON TOWNSHIP AT A MEETING HELD ON STORMWATER MANAGEMENT ORDINANCE. I, STEPHEN A. SHERK, CERTIFY THAT THE PROPOSED DETENTION BASIN IS ÚNDERLAIN BY LIMESTONE. STEPHEN A. SHERK, P.E. DATE **CERTIFICATION OF SURVEY ACCURACY** I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, THE SURVEY

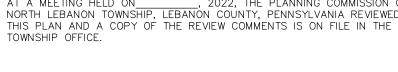
SHOWN AND DESCRIBED HEREON IS TRUE AND CORRECT TO THE ACCURACY REQUIRED BY THE NORTH LEBANON TOWNSHIP. NORTH LEBANON TOWNSHIP AND THE CITY OF LEBANON SUBDIVISION AND LAND DEVELOPMENT ORDINANCES.

JASON E. CHERNICH, P.L.S

LEBANON COUNTY PLANNING DEPARTMENT







CHAIRMAN OR VICE CHAIRMAN	

SUPERVISORS OF NORTH LEBANON TOWNSHIP, LEBANON COUNTY, PENNSYLVANIA APPROVED THE FINAL LAND DEVELOPMENT PLAN FOR THE PROPERTY AS SHOWN HEREON. NO OTHER PLAN OR PLANS SHALL BE RECOGNIZED. APPROVAL INCLUDES ALL DOCUMENTATION, INCLUDING THE COMMENTS OR REQUIREMENTS OF OFFICIAL REVIEWING INDIVIDUALS OR AGENCIES. APPROVAL IS BASED ON COMPLIANCE WITH APPLICABLE ORDINANCES, RULES AND REGULATIONS, AND SHALL NOT BE CONSTRUED AS A GUARANTEE TO ANY PERSON OR ORGANIZATION THAT THE DESIGN OF ANY PART OF THE PLAN WILL FUNCTION AS ANTICIPATED UNDER ANY OR ALL CONDITIONS OR SITUATIONS. ADDITIONALLY, THAT BY REVIEW AND/OR APPROVAL OF THE PLAN, THE TOWNSHIP EXPRESSLY DECLINES THE ASSUMPTION OF LIABILITY FREORS, OMISSIONS OF MISTAKES IN JUDGEMENT IN THE DESIGN, ENGINEERING, CONSTRUCTION, OR EXPECTED FUNCTION OF THE MATTERS REVIEWED AND/OR APPROVED. APPROVED

PPROVED	

APPROVED

DATE

PRELIMINARY/FINAL LAND DEVELOPMENT PLAN FOR NLT WAREHOUSE AND TRAILER STORAGE OWNER: INCH'S PROPERTIES, LLC LOCATED IN NORTH LEBANON TOWNSHIP LEBANON COUNTY, PENNSYLVANIA AUGUST 8, 2022 REVISION DATE BY _ — _ _ _ GRAPHIC Steckbeck Engineering & Surveying Inc. 279 North Zinns Mill Road / Suite A Lebanon, Pennsylvania 17042 Phone: (717) 272–7110 Fax: (717) 272-7348 **BMP/OUTFALL LOCATIONS** BMP LATITUDE LONGITUDE BASIN 1 40°21'57.00" 76°22'30.22" BASIN 2 40°21'31.24" 76°22'25.76" BASIN 3 40°21'21.82" 76°22'11.48" PURPOSE OF PLAN THE PURPOSE OF THIS PLAN IS TO CONSTRUCT A 1,000,000 SQ.FT. WAREHOUSE AND TRAILER STORAGE FACILITY WITH RELATED ASSOCIATED STORM WATER MANAGEMENT FACILITIES. NORTH LEBANON TOWNSHIP NORTH LEBANON TOWNSHIP SUPERVISORS AT A MEETING HELD ON_____, 2022, THE BOARD OF SUPERVISORS OF NORTH LEBANON TOWNSHIP, LEBANON COUNTY, PENNSYLVANIA APPROVED THE AT A MEETING HELD ON_____, 2022, THE PLANNING COMMISSION OF NORTH LEBANON TOWNSHIP, LEBANON COUNTY, PENNSYLVANIA REVIEWED LAND DEVELOPMENT PLAN OF THE PROPERTY AS SHOWN HEREON. DATE **REVIEWED & APPROVED** DATE **REVIEWED & APPROVED** DATE NORTH LEBANON TOWNSHIP SUPERVISORS , 2022, THE BOARD OF **REVIEWED & APPROVED** DATE NORTH LEBANON TWP PLANNING COMMISSION AT A MEETING HELD ON_____, 2022, THE PLANNING COMMISSION OF NORTH LEBANON TOWNSHIP, LEBANON COUNTY, PENNSYLVANIA RECOMMENDED FOR APPROVAL THE LAND DEVELOPMENT PLAN OF THE PROPERTY AS SHOWN HEREON. DATE CHAIRPERSON DATE NORTH LEBANON TOWNSHIP ENGINEER NORTH LEBANON TOWNSHIP REVIEWED BY THE NORTH LEBANON TOWNSHIP ENGINEER THIS ENGINEER REVIEW CERTIFICATION DAY OF_____, 2022. DATE REVIEWED BY THE NORTH LEBANON TOWNSHIP ENGINEER REVIEWED DATE IS _____ DAY OF_____, 20___. DATE



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	LAYOUT PLAN
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10	LAYOUT PLAN
11	OVERALL EASEMENT PLAN
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14	EASEMENT PLAN
15	OVERALL POST CONSTRUCTION STORMWATER MANAGEMENT PLAN
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NLTMA SANITARY SEWER NOTES

- EXISTING SEWER WILL NOT BE DISTURBED IN ANY WAY. ALL CONSTRUCTION SHALL BE IN ACCORDANCE W/NLTMA STANDARDS.
- 3. PROPOSED GRAVITY LATERALS SHALL BE SLOPED AT A MINIMUM 1/4" PER FOOT, UNLESS OTHERWISE NOTED ON THE PLAN.
- 4. STANDARD CLEANOUTS MUST BE "SCREWED ON" CAPS (PLUGS) AND THEY ARE TO BE WATER TIGHT
- SPACE BETWEEN TEST TEE & SEWER MAIN WILL BE AS REQUIRED BY NLTMA. TRENCH MUST REMAIN OPEN FOR INSPECTION. ANY TRENCH THAT IS FILLED MUST BE UNCOVERED FOR INSPECTION IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT
- NLTMA FOR INSPECTION A PRE-CONSTRUCTION MEETING WILL BE REQUIRED. 8. METAL MARKING TAPE WILL BE PLACED 12" ABOVE THE PIPE FOR THE ENTIRE
- HORIZONTAL RUN. AIR TESTING FOR ALL SEWER MAINS AND LATERALS SHALL BE 5LBS/5 MIN. NO DROP. 10. VACUUM TEST OF MANHOLES SHALL BE 10 LBS. VACUUM WITH AN ALLOWABLE DROP
- OF 1 | R / 1 | M | N11. VACUUM TEST UNIT SHALL BE PLACED IN THE FRAME AREA ONLY.
- 12. LINE WILL BE PLUGGED AT THE COMPLETION OF EACH WORKDAY TO PREVENT DEBRIS AND WATER FROM ENTERING THE LINE.
- 13. AN APPOINTED NLTMA INSPECTOR MUST BE PRESENT AT ALL TIMES WHEN ANY SEWER WORK IS PERFORMED.
- 14. INSPECTORS WILL BE AVAILABLE FROM 8 AM TO 3 PM. A 1/2 HOUR LUNCH BREAK WILL BE TAKEN DAILY DURING WHICH TIME NO SEWER WORK WILL BE ALLOWED.
- 15. ALL LINES SHALL BE FLUSHED WITH FRESH WATER TO CLEAR CONSTRUCTION DEBRIS UPON COMPLETION OF THE PROJECT.
- 16. MANDRELL TESTING WILL BE CONDUCTED FOR ALIGNMENT OF THE PIPE. 17. DAMAGED OR CRACKED MANHOLE SECTIONS WILL BE REJECTED.
- 18. DOUBLE MASTIC ON ALL JOINTS ON MANHOLES.
- 19. STEPS MUST BE ALIGNED. 20. NO CONCRETE PATCHING OF ANY KIND WILL BE ACCEPTED ON LEAKING JOINTS OR ON
- ANY CRACKED OR DAMAGED MANHOLES SECTIONS. 1. GROUTING OF THE INVERT IN ANY INVERT OUT PIPES SHALL BE DONE. 22. AFTER CONSTRUCTION IS COMPLETE THE CONSTRUCTED SEWER SHALL NOT BE TESTED
- UNTIL 30 DAYS HAS PASSED. 23. BASEMENT SERVICE IS ENCOURAGED, AS NO GRINDER PUMPS WILL BE ALLOWED.
- 24. NO DROP MANHOLES OR INSIDE SPLASH MANHOLES WILL BE ALLOWED. 25. RE-BAR MUST BE INSTALLED AT THE END OF EACH LATERAL CONNECTED TO THE MAIN TO FACILITATE LATERAL LOCATION.
- 26. BUILDING OWNER SHALL BE REQUIRED TO PARTICIPATE IN THE NLTMA "STRONG WASTE MANAGEMENT PROGRAM" WHICH REQUIRES AN AGREEMENT BY THE OWNER TO MONITOR, SAMPLE AND TEST SEWAGE DISCHARGE SEMI-ANNUALLY AT OWNER'S EXPENSE AND SUPPLY RESULTS TO NITMA 27. BUILDING OWNER GRANTS PERPETUAL RIGHT OF ACCESS TO THE SEWER LATERALS AND
- MANHOLES SHOWN HEREON FOR PURPOSE OF INSPECTION, MONITORING AND/OR SAMPLING 28. NO PRODUCTION AREA OR STORAGE AREA FLOOR DRAINS ARE ALLOWED.
- 29. THE APPLICANT ACKNOWLEDGES THAT APPROVAL OF THIS LAND DEVELOPMENT PLAN DOES NOT CONSTITUTE APPROVAL OF THE WASTEWATER DISCHARGE FROM THE PROPOSED FACILITY. APPLICANT ACKNOWLEDGES THAT DISCHARGE MUST COMPLY WITH THE CRITERIA SET FORTH IN THE NORTH LEBANON TOWNSHIP MUNICIPAL AUTHORITY (NLTMA) STRONG WASTE MANAGEMENT ORDINANCE. COMPLIANCE WITH THE ORDINANCE MIGHT NECESSITATE THAT APPLICANT CONSTRUCT PRETREATMENT FACILITIES TO TREAT WASTEWATER PRIOR TO DISCHARGE INTO THE NLTMA SEWER SYSTEM. APPLICANT ACKNOWLEDGES THEY ARE REQUIRED TO MAKE APPLICATION TO NLTMA FOR A STRONG WASTE MANAGEMENT PERMIT AND THAT NO DISCHARGE FROM THE SUBJECT FACILITY CAN COMMENCE UNTIL APPROVAL HAS BEEN GRANTED BY NLTMA AND/OR THE PERMIT HAS BEEN ISSUED IF PERMIT IS DEEMED NECESSARY BY NLTMA UNDER THE TERMS OF THE STRONG WASTE MANAGEMENT ORDINANCE.
- 30. IT IS A REQUIREMENT THAT A NEW LAND DEVELOPMENT PLAN SHALL BE FILED WITH THE TOWNSHIP AND COUNTY FOR ANY FUTURE EXPANSION OF THE FACILITIES ON THIS SITE. THE TOWNSHIP AND MUNICIPAL AUTHORITY SHALL HAVE THE RIGHT TO REVISE OR AMEND THE NOTES AND REQUIREMENTS SET FORTH ON THIS PLAN AND TO REVISE OR AMEND THE DEVELOPER AGREEMENTS WHENEVER A NEW LAND DEVELOPMENT PLAN IS
- 31. BUILDING OWNER GRANTS PERPETUAL RIGHT OF ACCESS TO NLTMA, IT'S EMPLOYEES, AGENTS OR ASSIGNS FOR THE SEWER LATERALS AND MANHOLES SHOWN HEREON FOR PURPOSES OF INSPECTION. MONITORING AND/OR SAMPLING.
- 32. THE GREASE INTERCEPTOR (OIL-WATER SEPARATOR) AS SHOWN ON THE DETAILS SHEET SHALL BE INSTALLED IN THE PRESENCE OF AN NLTMA INSPECTOR. LEAK TIGHTNESS TESTING SHALL BE PERFORMED BEFORE BACKFILLING AND IN THE PRESENCE THE NLTMA INSPECTOR. CONTRACTOR SHALL NOT BACKFILL UNTIL SPECIFICALLY AUTHORIZED TO DO SO BY THE NLTMA INSPECTOR.

STANDARD WATER SUPPLY NOTE

WATER SUPPLY FOR THE LOT OR LOTS SHALL BE PROVIDED BY EXTENSION OF THE EXISTING NLTMA PUBLIC WATER SYSTEM.

STANDARD SEWER SUPPLY NOTE

SEWAGE DISPOSAL FOR THE LOT SHALL BE PROVIDED BY EXTENSION OF THE EXISTING NLTMA PUBLIC SEWER SYSTEM.

BUILDING CODE NOTE

ALL CONSTRUCTION SHALL BE SUBJECT TO THE REQUIREMENTS OF THE PENNSYLVANIA UNIFORM CONSTRUCTION CODE, AS ADOPTED BY THE MUNICIPALITY. NPDES PERMIT

IS PROJECT HAS AUTHORIZATION FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES. GENERAL NPDES PERMIT ISSUED_____ EXPIRES ____

OPERATIONS STANDARDS NOTE: THE APPLICANT/OWNER/DEVELOPER SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 316

OPERATIONS AND PERFORMANCE STANDARDS OF THE ZONING ORDINANCE. COMPLIANCE REGULATIONS INCLUDE BUT NOT LIMITED TO AIR POLLUTION, AIRBORNE EMISSIONS, ODOR OPEN BURNING, ELECTRICAL, DIESEL, GAS OR OTHER SOURCES OF POWER, FIRE AND EXPLOSIVES, GLARE AND HEAT, MATERIALS AND WASTE STORAGE, HANDLING AND DISPOSAL F WASTE, NOISE POLLUTION, SEWAGE AND OTHER WASTE DISPOSAL, VIBRATION AND WATER

GEOTECHNICAL ENGINEERING NOTE

1. A GEOTECHNICAL ENGINEERING INVESTIGATION WAS CONDUCTED AND PREPARED BY ECS MID-ATLANTIC, LLC, RESULTS ARE PROVIDED IN THE GEOTECHNICAL REPORT DATED JULY 14,

PRE-CONSTRUCTION / INSPECTION NOTES APPLICANT AND HIS CONTRACTOR ARE REQUIRED TO SCHEDULE A PRE-CONSTRUCTION

MEETING WITH THE MUNICIPAL ENGINEERS AND MUNICIPALITIES PRIOR TO THE COMMENCEMENT THE APPLICANT AND HIS CONTRACTOR ARE RESPONSIBLE FOR PROVIDING A MINIMUM OF THREE BUSINESS DAYS NOTICE TO THE MUNICIPAL ENGINEERS OFFICE FOR INSPECTIONS OF ALL ESCROWED ITEMS:

NORTH LEBANON TOWNSHIP – ARRO ENGINEERING – 717–569–7021 IF ESCROWED ITEMS ARE INSTALLED, PLACED OR CONSTRUCTED WITHOUT THE REQUIRED NOTICE AND INSPECTION, THEN ITEMS WILL NEED TO BE REMOVED IN TOTALITY AND REPLACED AT NO

- COST TO THE MUNICIPALITY UNDER THE CONSTRICTION OBSERVATION OF THE MUNICIPAL ENGINEER THE MUNICIPAL ENGINEER SHALL INSPECT ALL PHASES OF DEVELOPMENT OF THE SITE, AND SHALL BE NOTIFIED OF THE COMMENCEMENT OF SUCH WORK AT LEAST 5 BUSINESS DAYS PRIOR O BEGINNING. IT IS THE RESPONSIBILITY OF THE OWNER, SUBDIVIDER, DEVELOPER OR HIS
- AGENT TO NOTIFY THE MUNICIPAL ENGINEER 24 HOURS IN ADVANCE OF THE COMPLETION OF EACH IDENTIFIED PHASE OF DEVELOPMENT. 4. ANY PORTION OF THE WORK WHICH DOES NOT COMPLY WITH THE APPROVED PLAN MUST BE CORRECTED BY THE DEVELOPER. NO WORK MAY PROCEED ON ANY SUBDIVISION OR LANE
- DEVELOPMENT OR BUILDING CONSTRUCTION UNTIL THE REQUIRED CORRECTIONS HAVE BEEN 5. IF AT ANY STATE OF THE WORK, THE MUNICIPALITY OR ITS ENGINEER DETERMINES THAT THE SOIL OR OTHER CONDITIONS ARE NOT AS STATED OR SHOWN ON THE PLAN, IT MAY REFUSE TO
- APPROVE FURTHER WORK AND THE MUNICIPALITY OR ITS DESIGNEE MAY REVOKE EXISTING APPROVALS UNTIL A REVISED PLAN IS SUBMITTED AND APPROVED. 6. A COPY OF ALL GEOTECHNICAL ENGINEER INSPECTIONS SHALL BE PROVIDED TO THE MUNICIPALITY.

CONTRACTOR NOTES

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS ON SITE PRIOR TO THE START OF CONSTRUCTION. UNDERGROUND UTILITIES HAVE BEEN SHOWN ACCORDING TO INFORMATION PROVIDED BY OTHERS AND MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION, EXCAVATION OR BLASTING. THE ACTUAL LOCATIONS OF THESE UTILITIES HAVE NOT BEEN FIELD VERIFIED AND THE LOCATIONS ARE APPROXIMATE. STECKBECK ENGINEERING & SURVEYING, INC. (SESI) DOES NOT MAKE ANY REPRESENTATION, WARRANTY, ASSURANCE OR GUARANTEE THAT THE UNDERGROUND UTILITY LOCATION INFORMATION PROVIDED BY OTHERS AND REFLECTED ON THESE DRAWINGS IS CORRECT AND ACCURATE. SESI ASSUMES NO LIABILITY FOR ANY DAMAGE INCURRED AS A RESULT OF UNDERGROUND UTILITIES OMITTED OR INACCURATELY SHOWN.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. DAMAGE TO ANY UTILITY SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER, UTILITY COMPANY OR AUTHORITY, AT THE CONTRACTOR'S EXPENSE.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY PERMITS FROM THE MUNICIPALITY, COUNTY, STATE OR AUTHORITY RELATIVE TO CONSTRUCTION SHOWN ON
- 4. THE CONTRACTOR IS RESPONSIBLE FOR ALL TESTING AND RECORD DRAWINGS AS MAY BE REQUIRED BY THE MUNICIPALITY AND/OR THE VARIOUS AUTHORITIES RELATIVE TO THE
- CONSTRUCTION SHOWN ON THESE PLANS. 5. PROVIDE 95% MODIFIED PROCTOR DENSITY PER ASTMD-698 IN AREAS WHERE PROPOSED UTILITIES ARE LOCATED ON FILL

STANDARD STORMWATER NOTES

- ALL STORM WATER MANAGEMENT FACILITIES SHOWN ON THIS PLAN SHALL BE CONSTRUCTED BY THE DEVELOPER IN ACCORDANCE WITH THE DESIGN, CONDITIONS AND SPECIFICATIONS IDENTIFIED ON THIS PLAN. OWNERSHIP AND MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE LANDOWNER, HIS SUCCESSORS AND ASSIGNS, UNLESS SPECIFICALLY IDENTIFIED OTHERWISE HEREIN.
- 2. STORM WATER MANAGEMENT FACILITIES SHALL BE MAINTAINED IN GOOD WORKING CONDITION SO THAT THEY ARE PERFORMING THEIR DESIGN FUNCTION, IN A MANNER ACCEPTABLE TO THE COUNTY, AS REQUIRED BY THE NORTH LEBANON TOWNSHIP SUBDIVISION & LAND DEVELOPMENT ORDINANCE. MAINTENANCE SHALL INCLUDE PERFORMING ROUTINE MAINTENANCE AND REPAIR OR REPLACEMENT OF DAMAGED FACILITIES, VEGETATION OR STORM WATER AREAS TO CONDITIONS AS SHOWN ON THE
- APPROVED PLAN AND IN ACCORDANCE WITH THE NORTH LEBANON TOWNSHIP SUBDIVISION & LAND DEVELOPMENT ORDINANCE ANY DRAINAGE AND UTILITY EASEMENTS SHOWN ON THE PLAN SHALL BE CONSTRUCTED. OWNED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED PLAN AND SHALL BE
- REFERENCED WITHIN THE PROPERTY DEED. 4. RUNOFF FROM THE LOT IMPROVEMENTS SHALL BE DIRECTED TO THE STORM WATER MANAGEMENT FACILITIES. STORM WATER RUNOFF FROM EXISTING NATURAL SWALES
- AND/OR OTHER EXISTING DRAINAGE CONVEYORS SHALL NOT BE DIRECTED TOWARDS OR INTERCEPTED BY THE STORM WATER MANAGEMENT FACILITIES. TOWNSHIP OFFICIALS AND THEIR AGENTS OR EMPLOYEES HAVE THE RIGHT OF ACCESS FOR INSPECTION AND, IN CASES OF CONSTRUCTION DEFAULT, CONSTRUCTION OF THE
- STORMWATER MANAGEMENT FACILITIES. 6. CONTACT NORTH LEBANON TOWNSHIP AT (717) 273-7132 PRIOR TO CONSTRUCTION TO COORDINATE INSPECTIONS OF STORMWATER MANAGEMENT FACILITIES BY THE TOWNSHIP
- ENGINEER. NO OCCUPANCY IS PERMITTED UNTIL STORMWATER MANAGEMENT FACILITIES HAVE BEEN INSTALLED AND APPROVED THROUGH INSPECTION BY THE TOWNSHIP ENGINEER 7. ROOF DRAINS SHALL NOT BE CONNECTED TO STREETS, SANITARY SEWERS OR ROADSIDE DITCHES.
- INFILTRATION FACILITIES HAVE BEEN TESTED AND DESIGNED IN ACCORDANCE WITH ACCEPTABLE MEASURES AND ONCE CONSTRUCTED MUST WORK AS DESIGNED. FAILURE OF INFILTRATION FACILITIES TO WORK AS DESIGNED WILL LEAD TO TESTING. IF TESTING INDICATES FACILITIES WERE COMPACTED OR OTHERWISE NOT CONSTRUCTED AS PER PLAN, THE INSTALLER OF THE FACILITIES WILL BE RESPONSIBLE FOR CONSTRUCTING THE FACILITIES TO THEIR DESIGNED WORKING CONDITION.

STORM WATER MANAGEMENT OWNERSHIP & MAINTENANCE PROGRAM STORM WATER FACILITIES WILL BE OWNED BY THE GRANTOR SUCCESSORS AND

- ASSIGNS. THIS INCLUDES ALL STORM WATER BMP'S AS SHOWN ON THESE PLANS. ALL DRAINAGE COURSES, SWALES, STORM WATER INLETS, PIPES, CONDUITS, DETENTION BASINS AND OTHER STORM WATER MANAGEMENT FACILITIES SHALL BE INSTALLED CONSTRUCTED AND MAINTAINED BY THE GRANTOR, ITS SUCCESSORS AND ASSIGNS, IN A FIRST-CLASS CONDITION IN CONFORMANCE WITH THE PLAN, AS APPROVED BY THE NORTH LEBANON TOWNSHIP BOARD OF SUPERVISORS, AND IN A MANNER SUFFICIENT TO MEET OR
- EXCEED THE DESIGN STANDARDS AND SPECIFICATIONS SET FORTH ON THE PLAN A. LIMING, FERTILIZING, SEEDING AND MULCHING OF VEGETATED CHANNELS AND ALL OTHER UNSTABILIZIED SOILS OR AREAS ACCORDING TO THE SPECIFICATIONS IN THE "EROSION AND SEDIMENT POLLUTION CONTROL MANUAL" PUBLISHED BY THE PENNSYLVANIA DEPARTMENT OF
- ENVIRONMENTAL PROTECTION OR SUCH SIMILAR ACCEPTED STANDARD. B. REESTABLISHMENT OF VEGETATION BY SEEDING, MULCHING, AND USE OF EROSION MATTING OR SODDING OF SCOURED AREAS OR AREAS WHERE VEGETATION HAS NOT BEEN SUCCESSEULLY ESTABLISHED
- MOWING AS NECESSARY TO MAINTAIN ADEQUATE STANDS OF GRASS AND TO CONTROL WEEDS. CHEMICAL WEED CONTROL MAY BE USED IF FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS ARE MET. SELECTION OF SEED MIXTURES SHALL BE SUBJECT TO APPROVAL BY THE NORTH LEBANON TOWNSHIP.
- D. REMOVAL OF SILT FROM ALL PERMANENT STRUCTURES WHICH TRAP SILT OR SEDIMENT IN ORDER TO KEEP THE MATERIAL FROM BUILDING UP IN GRASS WATERWAYS AND THUS REDUCING THEIR CAPACITY. REGULAR INSPECTION OF THE AREAS IN QUESTION TO ASSURE PROPER MAINTENANCE AND
- F. ALL PIPES, SWALES, AND DETENTION FACILITIES SHALL BE KEPT FREE OF ANY DEBRIS OR OTHER OBSTRUCTION. GRANTOR, ITS SUCCESSORS AND ASSIGNS, SHALL BE RESPONSIBLE FOR PERFORMING THE FOREGOING MAINTENANCE. 3. GRANTOR, FOR ITSELF, ITS SUCCESSORS AND ASSIGNS, AGREES THAT THE FAILURE TO
- MAINTAIN ALL DRAINAGE COURSES, SWALES, STORM WATER INLETS, PIPES, CONDUITS, DETENTION BASINS, AND OTHER STORM WATER MANAGEMENT FACILITIES IN A FIRST-CLASS CONDITION IN CONFORMANCE WITH THE AGREEMENT AND THE PLAN SHALL CONSTITUTE A NUISANCE AND SHALL BE ABATABLE BY THE NORTH LEBANON TOWNSHIP AS SUCH. 4. GRANTOR. FOR ITSELF, ITS SUCCESSORS AND ASSIGNS, AUTHORIZES NORTH LEBANON
- TOWNSHIP. AT ANY TIME AND FROM TIME TO TIME, BY ITS AUTHORIZED REPRESENTATIVES, TO ENTER UPON THE PREMISES TO INSPECT THE STORM WATER MANAGEMENT FACILITIES. 5 THE NORTH LEBANON TOWNSHIP MAY REQUIRE THAT GRANTOR. ITS SUCCESSORS AND ASSIGNS, OR ANY FUTURE OWNER OR OCCUPIER OF THE PREMISES, OR ANY PART THEREOF
- TAKE SUCH CORRECTIVE MEASURES AS THE NORTH I FRANON TOWNSHIP MAY DEFM REASONABLY NECESSARY TO BRING THE PREMISES INTO COMPLIANCE WITH THIS AGREEMENT AND WITH THE PLAN, AS APPROVED BY THE NORTH LEBANON TOWNSHIP BOARD OF SUPERVISORS
- 6. UPON THE FAILURE OF THE OWNER OR OCCUPIER OF THE PREMISES TO COMPLY WITH THE TERMS OF THE STORM WATER MANAGEMENT AGREEMENT OR TO TAKE CORRECTIVE MEASURES FOLLOWING THIRTY (30) DAYS' NOTICE FROM THE NORTH LEBANON TOWNSHIP, THE NORTH LEBANON TOWNSHIP, THROUGH ITS AUTHORIZED REPRESENTATIVES, MAY TAKE CORRECTIVE MEASURES AS IT DEEMS REASONABLY NECESSARY TO BRING THE PREMISES INTO
- COMPLIANCE WITH THE AGREEMENT AND WITH THE PLAN, INCLUDING, BUT NOT LIMITED TO HE REMOVAL OF ANY BLOCKAGE OR OBSTRUCTION FROM DRAINAGE PIPES. SWALES / DETENTION BASINS, AND MAY CHARGE THE COST THEREOF TO GRANTOR, ITS SUCCESSORS OR ASSIGNS, OR ANY OWNER OF THE PREMISES AND, IN DEFAULT OF SUCH PAYMENT, MAY
- CAUSE A MUNICIPAL LIEN TO BE IMPOSED UPON THE PREMISES OR ANY PART THEREOF. 7. GRANTOR HEREBY IMPOSES UPON THE PREMISES FOR THE BENEFIT OF ALL PRESENT AND FUTURE OWNERS OF THE PREMISES OR ANY PART OF THE PREMISES, NORTH LEBANON TOWNSHIP AND ALL OTHER PROPERTY OWNERS AFFECTED BY THE STORM WATER MANAGEMENT FACILITIES, THE PERPETUAL NONEXCLUSIVE RIGHT, PRIVILEGE AND EASEMENT FOR THE DRAINING OF STORM WATER IN AND THROUGH THE DRAINAGE COURSES, SWALES, STORM
- WATER INLETS, PIPES, CONDUITS, DETENTION BASINS AND OTHER STORM WATER MANAGEMENT FACILITIES DEPICTED ON THE PLAN OR PLANS SUBMITTED TO NORTH LEBANON TOWNSHIP OR HEREAFTER MADE OF RECORD AND NOW OR HEREAFTER INSTALLED ON OR CONSTRUCTED UPON THE PREMISES AND, IN ADDITION, EASEMENTS OF ACCESS TO THE STORM WATER MANAGEMENT FACILITIES
- 8. GRANTOR SHALL INCLUDE A SPECIFIC REFERENCE TO THE STORM WATER MANAGEMENT AGREEMENT AND DECLARATION OF EASEMENT IN ANY DEED OF CONVEYANCE FOR THE PREMISES OR ANY PART THEREOF 9. GRANTOR AGREES TO INDEMNIFY NORTH LEBANON TOWNSHIP, LEBANON CO., AND ALL OF IT'S
- ELECTED AND APPOINTED OFFICIALS; AGENTS AND EMPLOYEES (HEREINAFTER COLLECTIVELY REFERRED TO AS THE "INDEMNITEES") AGAINST AND HOLD INDEMNITEES HARMLESS FROM ANY AND ALL LIABILITY, LOSS OR DAMAGE, INCLUDING ATTORNEYS' FEES AND COSTS OF INVESTIGATION AND DEFENSE. AS A RESULT OF CLAIMS, DEMANDS, COSTS OR JUDGMENTS AGAINST INDEMNITEES WHICH ARISE AS A RESULT OF THE DESIGN, INSTALLATION, CONSTRUCTION OR MAINTENANCE OF THE STORM WATER MANAGEMENT FACILITÍES. 10. NORTH LEBANON TOWNSHIP MAY, IN ADDITION TO THE REMEDIES PRESCRIBED HEREIN,
- PROCEED WITH ANY ACTION AT LAW OR IN EQUITY TO BRING ABOUT COMPLIANCE WITH THE NORTH LEBANON TOWNSHIP STORM WATER MANAGEMENT ORDINANCE AND THE AGREEMENT. 11. GRANTOR'S PERSONAL LIABILITY UNDER THE AGREEMENT SHALL CEASE AT SUCH TIME AS (A) ALL STORM WATER MANAGEMENT FACILITIES HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE NORTH LEBANON TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE AND THE APPROVED PLANS; (B) THE STORMWATER MANAGEMENT FACILITIES HAVE BEEN INSPECTED AND APPROVED BY THE NORTH LEBANON TOWNSHIP ENGINEER; (C) ALL FINANCIAL SECURITY, INCLUDING ANY MAINTENANCE SECURITY, POSTED BY
- GRANTOR HAS BEEN RELEASED BY NORTH LEBANON TOWNSHIP; AND (D) GRANTOR HAS TRANSFERRED ALL LOTS TO BE CREATED FROM THE PREMISES TO THIRD PARTIES. NOTWITHSTANDING THE FOREGOING, GRANTOR'S PERSONAL LIABILITY SHALL CONTINUE FOR ANY VIOLATIONS OF THIS AGREEMENT AND DECLARATION OF EASEMENT WHICH OCCURRED DURING THE TIME THAT GRANTOR OWNED THE PREMISES OR ANY LOT CREATED FROM THE PREMISES OR IN THE EVENT THE STORM WATER MANAGEMENT FACILITIES WERE NOT COMPLETED,
- INSPECTED OR APPROVED AS SET FORTH HEREIN. 12. IT IS THE INTENT OF THE PARTIES TO THE AGREEMENT THAT PERSONAL LIABILITY AND MAINTENANCE OBLIGATIONS SHALL PASS TO SUBSEQUENT TITLE OWNERS UPON CHANGE IN OWNERSHIP OF THE PREMISES OR ANY LOT CREATED FROM THE PREMISES, AND SUCH SUBSEQUENT OWNERS SHALL ASSUME ALL PERSONAL LIABILITY AND MAINTENANCE OBLIGATIONS FOR THE TIME PERIOD DURING WHICH THEY HOLD TITLE. PERSONAL LIABILIT
- SHALL REMAIN FOR ANY VIOLATIONS OF THE AGREEMENT AND DECLARATION OF EASEMENT, WHICH OCCURRED DURING THE PERIOD IN WHICH AN OWNER HELD TITLE. 13. THIS AGREEMENT AND DECLARATION OF EASEMENT SHALL BE BINDING UPON GRANTOR, THE SUCCESSORS AND ASSIGNS OF GRANTOR, AND ALL PRESENT AND FUTURE OWNERS OF THI PREMISES, OR ANY PART THEREOF, AND IS INTENDED TO BE RECORDED IN ORDER TO GIVE
- NOTICE TO FUTURE OWNERS OF THE PREMISES, OR ANY PART THEREOF, OF THEIR DUTIES AND RESPONSIBILITIES WITH RESPECT TO THE STORM WATER MANAGEMENT FACILITIES. **FLOODPLAIN NOTE**

ACCORDANCE WITH FLOOD INSURANCE RATE MAP, FOR LEBANON COUNTY, MAP NUMBER 42075C0257E & 42075C0276E, EFFECTIVE 7/8/2020, NO FLOODPLAIN EXISTS ON THE SUBJECT

WETLAND NOTE

REGULATED WETLANDS EXIST ON THE SUBJECT PROPERTY. A WETLAND INVESTIGATION WAS PERFORMED BY BRAD GOCHNAUER OF VORTEX ENVIRONMENTAL ON 5/5/22. SEE EXISTING CONDITIONS PLAN FOR LIMITS OF EXISTING WETLANDS.

STANDARD WATER NOTES - CITY OF LEBANON AUTHORITY 1. CONTACT INFORMATION FOR THE CITY OF LEBANON AUTHORITY

CITY OF LEBANON AUTHORITY 2311 RIDGEVIEW ROAD

IFBANON, PA 17042

- CONTACT: BOB SENTZ, BSENTZ@LEBANONAUTHORITY.ORG, 717-272-2841
- 2. WATER SYSTEMS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH THE CITY OF LEBANON AUTHORITY'S "GENERAL SPECIFICATIONS FOR WATER SYSTEM CONSTRUCTION". 3. THE CONSTRUCTION OF WATER MAINS REQUIRES A WATER MAIN EXTENSION AGREEMENT
- BETWEEN THE DEVELOPER AND THE AUTHORITY. 4. EXISTING WATER MAINS ARE SHOWN AT AN APPROXIMATE LOCATION. THE CONTRACTOR SHALL EXCAVATE TEST PITS TO DETERMINE ACTUAL LOCATIONS AND VERIFY WATER MAIN SIZES AT
- UTILITY CROSSINGS. EXCAVATED AREAS. AND TIE-IN LOCATIONS. 5. WATER LATERAL CONNECTION REQUIRES AN APPLICATION AND PAYMENT FOR A CAPACITY FEE WITH THE AUTHORITY PRIOR TO MAKING THE WATER TAPS
- 6. FIRE SERVICE CONNECTION REQUIRES AN APPLICATION AND PAYMENT FOR A CAPACITY FEE WITH THE AUTHORITY PRIOR TO MAKING THE FIRE LINE TAP. 7. ANY WORK WITHIN PENNDOT RIGHT-OF-WAY REQUIRES A PENNDOT HIGHWAY OCCUPANCY
- PERMIT (HOP). THE PERMIT TYPICALLY IS REQUIRED TO BE IN THE AUTHORITY'S NAME, AND THE AUTHORITY REQUIRES THE CONTRACTOR TO PROVIDE A REFUNDABLE DEPOSIT TO THE AUTHORITY UNTIL PENNDOT SIGNS OFF ON THE PERMIT AFTER CONSTRUCTION IS COMPLETE. 8. ANY WORK WITHIN MUNICIPAL RIGHT-OF-WAY'S MIGHT REQUIRE A MUNICIPAL PERMIT. THE PERMIT SHALL BE ACQUIRED IN THE CONTRACTOR'S NAME.
- 9. THE AUTHORITY SHALL APPROVE ALL MATERIALS PRIOR TO CONSTRUCTION. 10. A MANDATORY PRE-CONSTRUCTION MEETING SHALL BE HELD BETWEEN THE AUTHORITY,
- BUREAU OF WATER, AND WATERLINE CONSTRUCTION CONTRACTOR. 11. THE BUREAU OF WATER WILL INSPECT THE WATER MAIN INSTALLATION AND TESTING. THERE ARE FEES CHARGED TO THE DEVELOPER / CONTRACTOR FOR INSPECTION SERVICES. WATER MAIN CONSTRUCTION AND FEES SHALL BE COORDINATED WITH THE AUTHORITY.
- 12. THE PROPERTY OWNER / DEVELOPER SHALL INSTALL THE WATER TAP AND SERVICE LINE TO THE CURB STOP UNDER THE INSPECTION OF THE BUREAU OF WATER. THE PROPERTY OWNER IS RESPONSIBLE FOR THE WATER SERVICE AFTER THE CURB STOP. THE BUREAU OF WATER WILL INSTALL THE WATER METER WITHIN THE BUILDING OR AN APPROVED METER PIT AS INSTRUCTED BY THE BUREAU OF WATER. CONTACT THE BUREAU OF WATER METER
- DEPARTMENT FOR METER INSTALLATION, 2200 WEST CHESTNUT STREET, 717-273-2506. 13. WATER SERVICE LATERALS OVER 100-FEET FROM THE CURB STOP TO THE ENTRANCE OF THE BUILDING REQUIRES THE INSTALLATION OF A METER PIT WITHIN 10-FEET OF THE CURB STOP. METER PITS SHALL BE APPROVED BY THE METER DEPARTMENT PRIOR TO INSTALLATION.
- 14. SEWER AND WATER MAINS SHALL HAVE A MINIMUM OF AN 18-INCH SEPARATION, OR THE SEWER MAIN SHALL BE CONCRETE ENCASED IN THE AREA WHERE THE 18-INCH SEPARATION CANNOT BE MAINTAINED. 15. WATER MAINS AND LATERALS THAT ARE LESS THAN 18-INCHES FROM A STORM SEWER OR
- CULVERT SHALL BE INSULATED WITH A FOAM WRAP. 16. AT THE CONCLUSION OF THE INSTALLATION OF THE WATER SYSTEM AND SERVICE LINES, AND SUCCESSFUL TESTING THEREOF, THE WATER SYSTEM WILL BE OFFERED FOR DEDICATION TO THE CITY OF LEBANON AUTHORITY.
- 17. ALL EXISTING WATER LATERALS SHALL BE TERMINATED AT THE WATER MAIN BY TURNING OFF THE CORPORATION STOP AT THE MAIN, AND THE SERVICE LINES CUT AND CRIMPED WITHIN ONE FOOT OF THE CORPORATION STOP. ALL WORK, INCLUDING SAW CUTTING, EXCAVATION, LATERAL TERMINATION, BACKFILL, AND PAVING, SHALL BE DONE BY THE CONTRACTOR AND INSPECTED BY THE BUREAU OF WATER.

SURVEY NOTES: 1. BENCHMAR

- BM1: CAPPED REBAR ON THE NORTH SIDE OF EAST CUMBERLAND STREET (SR-0422), APPROX 59'± EAST OF UTILITY POLE BT 1316.
- NORTHING: 375240.45 EASTING: 2352584.99
- ELEVATION: 507.55 BM2: CAPPED REBAR ON THE SOUTH SIDE OF EAST CUMBERLAND STREET (SR-0422), APPROX 63'± WEST OF UTILITY POLE 38487-37562. NORTHING: 375485.21 EASTING: 2353160.77
- ELEVATION: 509.68 VERTICAL DATUM: NAVD 88
- HORIZONTAL DATUM: NAD83 PA SOUTH ZONE 2. UNDERGROUND UTILITIES ARE SHOWN ACCORDING TO INFORMATION PROVIDED BY OTHERS AND MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION EXCAVATION OR BLASTING. THE ACTUAL LOCATIONS OF THESE UTILITIES HAVE NOT BEEN FIELD VERIFIED AND THE LOCATIONS ARE APPROXIMATE. STECKBECK ENGINEERING & SURVEYING, INC. DOES NOT MAKE ANY REPRESENTATION, WARRANTY, ASSURANCE, OR GUARANTEE THAT THE UNDERGROUND UTILITY LOCATION PROVIDED BY OTHERS AND REFLECTED ON THESE DRAWINGS ARE CORRECT AND ACCURATE. STECKBECK ENGINEERING & SURVEYING, INC. ASSUMES NO RESPONSIBILITY FOR ANY DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.
- IN ACCORDANCE WITH THE FLOOD INSURANCE RATE MAP NUMBER 42075C0276E, EFFECTIVE DATE JULY 8, 2020. THE ENTIRE SITE IS IN THE ZONE "X" FLOOD 4. IN ACCORDANCE WITH THE U.S. FISH AND WILDLIFE SERVICES NATIONAL WETLANDS
- INVENTORY THERE ARE NO WETLANDS ON THE SUBJECT PREMISES. 5. RIGHT-OF-WAY FOR EAST CUMBERLAND STREET (SR-0422) IS SHOWN IN ACCORDANCE WITH COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF HIGHWAYS FINAL DRAWINGS FOR CONSTRUCTION AND CONDEMNATION OF RIGHT-OF-WAY ROUTE NO. 149 SEC. NO. 2 IN LEBANON & BERKS COUNTY.

UTILITY NOTES

- SEWAGE DISPOSAL IS TO BE PROVIDED BY EXTENSION OF THE PUBLIC SEWER SYSTEM BY THE LAND DEVELOPER. AS SHOWN HEREON. CONNECTION TO THE PUBLIC SEWER SYSTEM IS REQUIRED.
- ALL WATER SUPPLY FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LEBANON AUTHORITY SPECIFICATIONS. ALL SANITARY SEWER CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE LATEST STANDARDS OF THE MUNICIPALITY AND SHALL BE SUBJECT TO APPROVAL BY THE MUNICIPALITY'S
- FNGINFFR 4. WATER AND SEWER LINES MUST MAINTAIN A MINIMUM HORIZONTAL SEPARATION OF 5'. OTHERWISE A VERTICAL SEPARATION OF 18" SHALL BE PROVIDED. IF NEITHER IS POSSIBLE, THEN A 6" CONCRETE ENCASEMENT SHALL BE PROVIDED FOR THE SEWER LINE.
- ALL UTILITIES SHALL BE INSTALLED UNDERGROUND INCLUDING BUT NOT LIMITED TO TELEPHONE. CABLE FLECTRIC GAS WATER AND SANITARY SEWER 6. ACCESS TO ALL UTILITY FACILITIES SHALL BE GRANTED TO REPRESENTATIVES OF THE MUNICIPALITY
- AT ALL TIMES FOR THE PURPOSES OF INSPECTION AND MAINTENANCE. CONSTRUCTION OF SEWER LATERALS SHALL COMPLY WITH THE RULES, REGULATIONS, AND SPECIFICATIONS OF THE NORTH CORNWALL TOWNSHIP AUTHORITY. DO NOT BACKFILL SEWER LATERAL
- TRENCHES UNTIL INSPECTED BY A REPRESENTATIVE OF THE AUTHORITY 8. CONSTRUCTION OF WATER LATERALS SHALL COMPLY WITH THE RULES, REGULATIONS, AND
- SPECIFICATIONS OF THE CITY OF LEBANON WATER AUTHORITY 9. ALL GREASE TRAPS SHALL BE PROVIDED AS REQUIRED IN THE GREASE AND OIL CONTROL ORDINANCE (ORDINANCE NO. 233), AS APPLICABLE. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL AT THE TIME OF PERMIT APPLICATION.

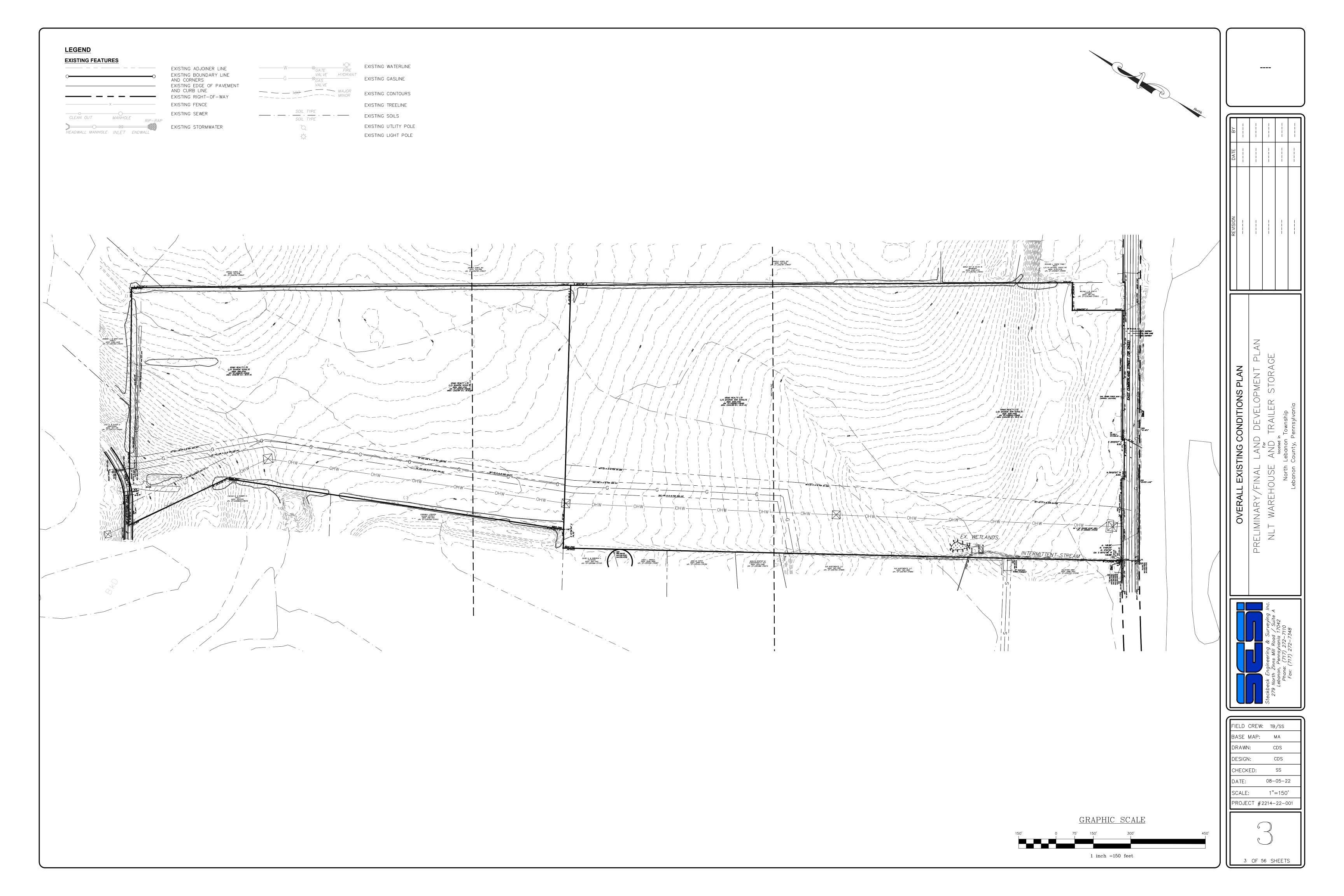
INFILTRATION NOTE:

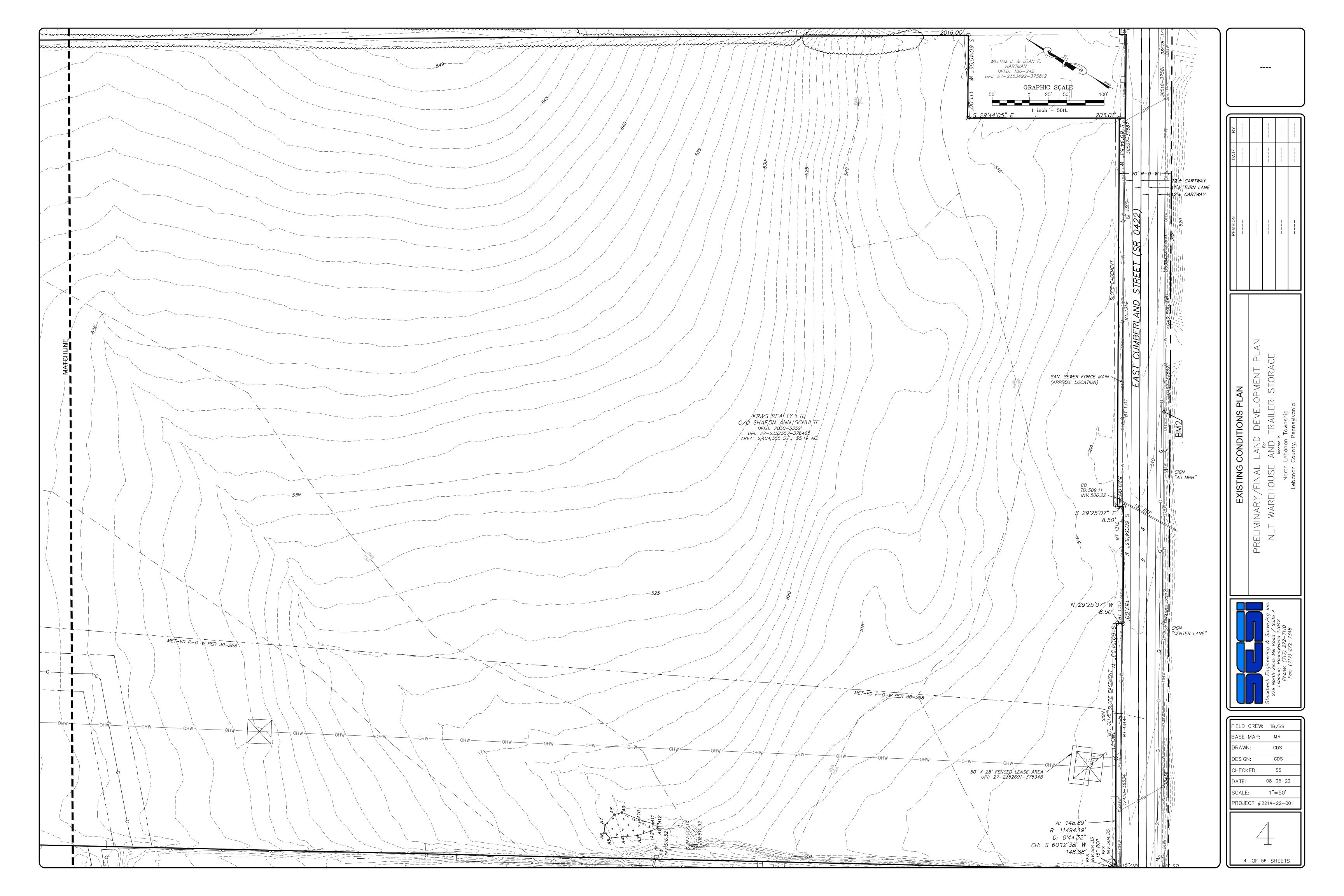
INFILTRATION FACILITIES RELY ON PERMEABLE SOIL CONDITIONS TO DEWATER AND FUNCTION PROPERLY. AS PART OF THE DESIGN PROCESS, INFILTRATION TESTING WAS CONDUCTED BY A QUALIFIED PROFESSIONAL, SOIL SCIENTIST LICENSED GEOLOGIST OR THEIR DESIGNATED REPRESENTATIVE TO ASSURE THAT CONDITIONS WERE CONDUCIVE TO UTILIZE THIS TYPE OF FACILITY FOR STORMWATER MANAGEMENT CONTROL. EVERY PRECAUTION MUST BE TAKEN BY THE CONTRACTOR DURING THE CONSTRUCTION OF THE INFILTRATION FACILITY TO ASSURE THAT COMPACTION DOES NOT OCCUR WHICH WOULD COMPROMISE THE PERMEABILITY OF THE FLOOR OF THE INFILTRATION FACILITY. IF AFTER INSTALLATION, ANY INFILTRATION FACILITY DOES NOT FUNCTION AS DESIGNED E CONTRACTOR WILL BE RESPONSIBLE TO PERFORM REMEDIATION, OUTLINED BY THE QUALIFIED PROFESSIONAL, TO RESTORE BEFORE CONSTRUCTION PERMEABILITY.

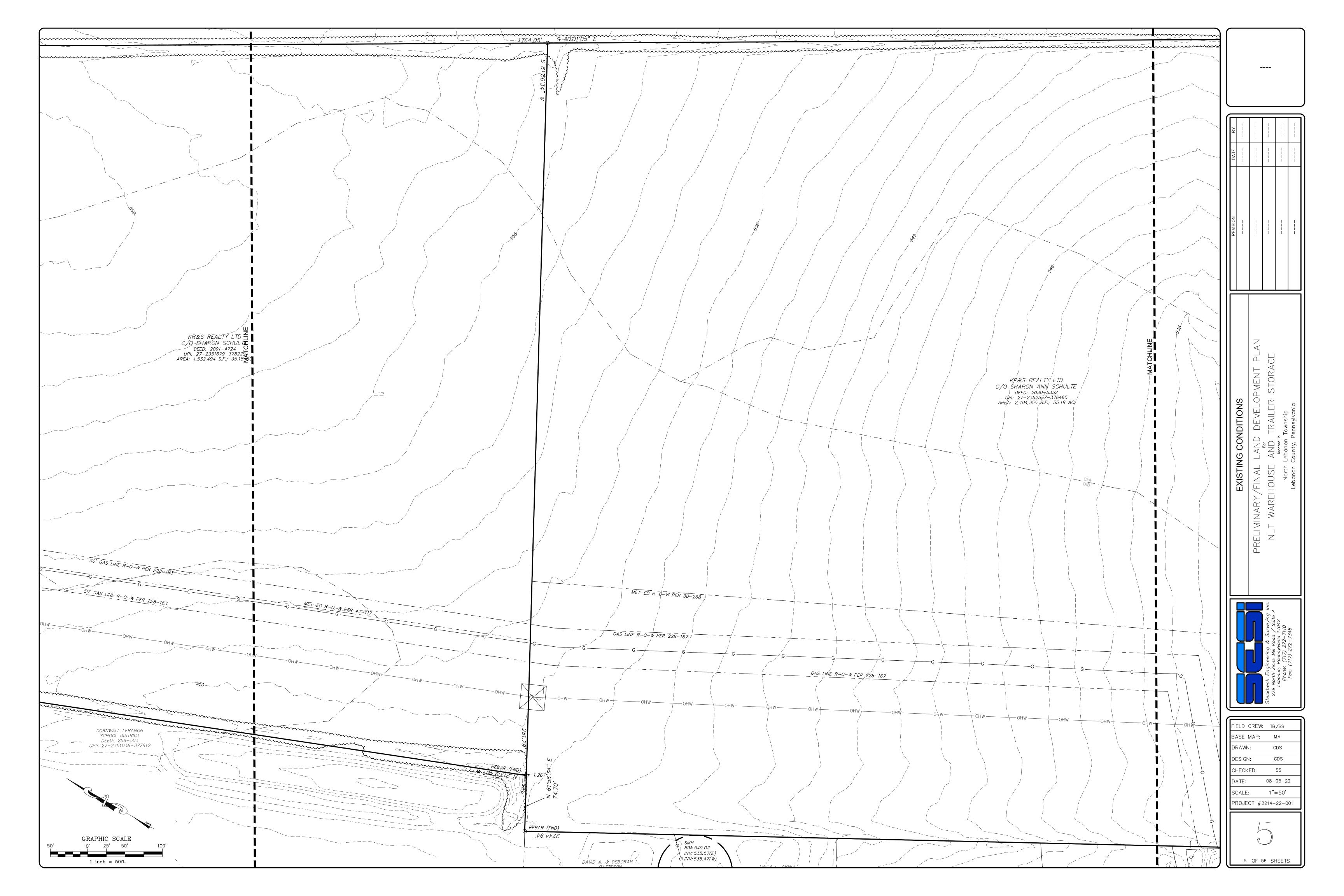
GENERAL NOTES

- TO THESE PLANS AFTER THE DATE OF PLAN PREPARATION (ANY REVISION REVISION DATE SHALL NOT BE THE RESPONSIBILITY OF STECKBECK ENGINEE SURVEYING. INC NO ONE SHALL SCALE FROM THESE PLANS FOR CONSTRUCTION PURPOSES.
- THE APPROVED POST-CONSTRUCTION STORMWATER MANAGEMENT REPORT CONSIDERED A PART OF THIS PLAN AND IS ENFORCEABLE AS IF IT APPEARED
- 4. NOTHING SHALL BE PLACED, PLANTED, SET, PUT OR MAINTAINED WITHIN THE ARE EASEMENT THAT MAY ADVERSELY AFFECT THE FUNCTION OF THE EASEMENT OR WITH THE PURPOSE OR ARRANGEMENT OF THE EASEMENT, WITH THE EXCEPTIC AREA OF THE EASEMENTS LOCATED WITHIN BUILDING LIMITS
- 5. THE INFORMATION SHOWN ON THIS DRAWING MAY HAVE ALSO BEEN PROVIDED IN DRAWING FORMAT. ONCE A DRAWING IS RELEASED FROM STECKBECK ENGIN SURVEYING, INC. IN A DIGITAL FORMAT, WE HAVE NO CONTROL OVER MANIPU MISUSE OF THE DATA CONTAINED IN THAT FILE. THE VIEWER IS THEREFORE CAU COMPARE ANY SUBSEQUENT REPRODUCTIONS OR MANIPULATIONS OF THIS DATA ORIGINAL HARD COPY SEALED PLAN PROVIDED BY STECKBECK ENGINEERING & INC. THE USER IS ALSO CAUTIONED THAT ANY USE OF THE DATA CONTAINE DIGITAL FILE THAT IS NOT SHOWN ON THE HARD COPY DRAWING, MUST BE AT TH
- THE USER. 6. ALL SITE DEVELOPMENT SHALL BE DONE IN ACCORDANCE WITH FEDERAL, STATE AND MUNICIPALITY STANDARDS AND REQUIREMENTS. 7. ANY SANITARY SEWER AND WATER MAIN EXTENSIONS AND CONNECTIONS HERETO
- CONSTRUCTED PER APPROVED DESIGNS IN ACCORDANCE WITH APPLICABLE REC AND APPROVALS 8. ALL JOINTS WHERE PROPOSED MACADAM MEETS EXISTING MACADAM SHALL BE AND SEALED WITH PG 64S-22.
- 9. ALL PROPOSED SIGNS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL ORDINANCES. 10. NORTH LEBANON TOWNSHIP SHALL NOT BE RESPONSIBLE FOR THE MAINTENANC AREA THAT IS NOT OFFERED FOR DEDICATION TO PUBLIC USE AND SUCH OFFER BY NORTH LEBANON TOWNSHIP. NO ALTERATION TO SWALES, BASINS, OR OTHER
- STRUCTURES SHALL BE PERMITTED WITHIN DRAINAGE EASEMENTS. 11. UTILITY TYPE AND LOCATION NOTICE: ALL EXISTING UTILITIES ARE SHOWN AS THE FIELD AND/OR ILLUSTRATED ON VARIOUS USER DRAWINGS. TO THE BES KNOWLEDGE THE LOCATIONS AND TYPES ARE CORRECT AND ACCURATE, BUT ENGINEERING & SURVEYING, INC. DOES NOT MAKE ANY REPRESENTATION, ASSURANCE, OR GUARANTEE THE INFORMATION RECEIVED AND REFLECTED DRAWINGS IS CORRECT OR ACCURATE. PURSUANT TO SECTION 5 CLAUSE (1) (AMENDING ACT 287 IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO THE LOCATION AND TYPE OF USERS LINES AT THE CONSTRUCTION SITE, INSPECTION OF THE DESIGNER'S DRAWING OR IF THERE BE NO SUCH DRAWINGS THE SAME MANNER AS THAT PRESCRIBED FOR A DESIGNER IN CLAUSE (1) AI SECTION 4. PURSUANT TO SECTION 5 CLAUSE (2) IT WILL BE THE
- RESPONSIBILITY NOT LESS THAN THREE NOR MORE THAN TEN WORKING DAYS PRIV DAY OF BEGINNING SUCH WORK, TO NOTIFY EACH USER OF THE CONTRACTOR'S PERFORM SUCH WORK AT ITS SITE OR SITES AND REQUEST THE INFORMATION F BY [SUBCLAUSES II AND III] OR CLAUSE (5) OF SECTION 2, FROM EACH USER'S OFFICE DESIGNATED ON THE DESIGNERS
- OR ON THE LIST OF USERS OBTAINED PURSUANT TO CLAUSE (1) OF SECTION 4. ALL UTILITIES SHALL BE INSTALLED UNDERGROUND INCLUDING BUT NOT TELEPHONE, CABLE, ELECTRIC, GAS, WATER, AND SANITARY SEWER. THE COMMONWEALTH OF PENNSYLVANIA HISTORICAL AND MUSEUM COMMISSION A SURVEY OF THE SUBJECT SITE IN ACCORDANCE WITH STATE AND FEDE SPECIFICALLY SECTION 106 OF THE NATIONAL HISTORIC PRESERVATION ACT OF THE IMPLEMENTING REGULATIONS (36 CER PART 800) OF THE ADVISORY (HISTORIC PRESERVATION. THE ENVIRONMENTAL RIGHTS AMENDMENT, ARTICLE 1 OF THE PENNSYLVANIA CONSTITUTION AND THE PENNSYLVANIA HISTORY COD CONS. STAT. SECTION 500 ET SEQ. (1988) AND FOUND THERE ARE NO NATIONAL ELIGIBLE OR LISTED HISTORIC OR ÀRCHÁEOLOGICAL PROPERTIES IN THE ARE
- PROJECT SITE 14. SITE IMPROVEMENTS AND DEVELOPMENTS SHALL BE IN ACCORDANCE WITH TH AND SEDIMENT CONTROL DETAILS WITHIN THIS PLAN AND THE APPROVED EROSION CONTROL PLAN.
- 15. ALL DRAINAGE AND UTILITY EASEMENTS OTHER THAN THOSE SHOWN WITHIN THE BUILDINGS AS SHOWN ON THIS PLAN SHALL BE MAINTAINED IN GRASSED OR IMPROVED CONDITION IN ACCORDANCE WITH THE GRADES AND DESIGNS SHOW APPROVED PRELIMINARY/FINAL PLANS. MAINTENANCE OF SUCH EASEMENTS SHAL RESPONSIBILITY OF THE INDIVIDUAL LOT OWNER. DRAINAGE EASEMENTS SHA PASSAGE OF STORM WATER IN UNDERGROUND STORM WATER SEWER F ASSOCIATED STRUCTURES, AND/OR ALLOW PASSAGE OF STORM WATER OVER THE OF THE GROUND AND SHALL ALLOW ACCESS ACROSS THE AREA FOR PUR MAINTENANCE OF THE STORM CONVEYANCE SYSTEMS. EXISTING AND PROPOSED
- GUTTERS OR SWALES SHALL NOT BE OBSTRUCTED BY DRIVEWAYS, FILL, OR S ALL DEEDS FOR THE LOT(S) SHALL INCLUDE A REFERENCE TO THE EASEMENT(S) LOCATED WITHIN THE LOT ALONG WITH ANY RIGHTS AND RESTRICTIONS OF EACH INCLUDING LOT OWNER RESPONSIBILITY FOR OWNERSHIP AND MAINTENANCE EASEMENT, PIPES AND STRUCTURES WITHIN THE EASEMENT. ALL STORMWATER RELATED STRUCTURES WITHIN THE DEVELOPMENT SHALL BE CONSTRUCTED DEVELOPER. THE STORM WATER MANAGEMENT FACILITIES (S.W.M.F.) SHALL BE CC PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE. STORM SEWER MAINS SMOOTH LINED CORRUGATED POLYETHYLENE PIPE (SLCPP) AND SHALL BE
- ENCASED WHEN COVER IS LESS THAN 12" TO SUBGRADE. INLETS HAVE BEEN O AND SHALL BE MANUFACTURED FOR THE INLET GRATE ELEVATIONS TO BE IN INCH SUMP CONDITION AND ALL INLETS SHALL BE SUPPLIED WITH BICYCLE SAF STORM WATER MAINS WHICH ARE LOCATED WITHIN A PUBLIC RIGHT-OF WAY OWNED AND MAINTAINED BY NORTH LEBANON TOWNSHIP. STORM SEWER MAINS LOCATED WITHIN ANY LOTS SHALL BE OWNED AND MAINTAINED BY THE INDIV OWNER. MUNICIPALITY OFFICIALS, INCLUDING THE MUNICIPALITIES BOARD OF SU WILL HAVE THE RIGHT TO INSPECT AND/OR CORRECT ANY DEFICIENCIES IN WATER COLLECTION SYSTEM WHICH IS LOCATED IN ANY OPEN SPACE OR EASEME
- THE DEVELOPMENT AT ANY TIME IF DEEMED NECESSARY 16. ALL STORM SEWER PIPING SHALL BE CONSTRUCTED UTILIZING A LASER TO ENSUF 17. TREES AND SHRUBS SHALL NOT BE PLANTED IN SWALES OR WITHIN 5 FEET
- UTILITY LINES. IN DEVELOPMENTS WITH SIDEWALKS, TREES SHALL NOT BE PLANTE FEET OF THE SIDEWALK. ANY TREES PLANTED ON LOTS SHALL NOT BE CLOSER ANY STREET RIGHT-OF-WAY. INDIVIDUAL TREES SHALL BE ESTABLISHED AT 6' OR IN HEIGHT AND SHALL BE AT LEAST 2 1/2" CALIBER. 18. MATERIALS AND DETAILS SPECIFIED ON THE APPROVED PLAN SHALL NOT E
- DURING CONSTRUCTION WITHOUT WRITTEN APPROVAL BY NORTH LEBANON TOWNSH 19. ALL PROPOSED LIGHTING SHALL COMPLY WITH THE REQUIREMENTS OF THE IL ENGINEERING SOCIETY OF NORTH AMERICA, IES LIGHTING HANDBOOK (NEW YO 1981, AS AMENDED). ALL LIGHTING SHALL BE DESIGNED AND ARRANGED SUCH LUX OR FOOTCANDLE VALUES ARE ZERO AT AND BEYOND THE PROPERTY LINES
- PROPERTY BEING DEVELOPED, AND ARE ALSO ZERO IN AN UPWARD DIRECTION. 20. AN AS-BUILT DRAWING SHALL BE PROVIDED TO NORTH LEBANON TOWNS COMPLETION OF THE SITE IMPROVEMENTS AND PRIOR TO THE FINAL RELEASE OF SECURITY HELD BY NORTH LEBANON TOWNSHIP. A PROFESSIONALLY SEALED CONSTRUCTION REPORT AND PLAN, INCLUDING RELATIVE DATES, NAME(S) OF CO (S). METHODS OF CONSTRUCTION. AND VERIFICATION OF CONFORMANCE SPÉCIFICATIONS AND GOOD ENGINEERING PRACTICES, SHALL BE PROVIDED TO ENGINEER PRIOR TO BOND REDUCTION REQUESTS RELATED TO THE BASIN (S).
- 21. A SIGN PERMIT SHALL BE OBTAINED FROM NORTH LEBANON TOWNSHIP PRIOR PLACEMENT OF ANY SIGNS. 22. DRIVEWAY PERMITS WILL BE REQUIRED TO BE OBTAINED FROM NORTH LEBANON FOR THE PROPOSED DRIVEWAYS.

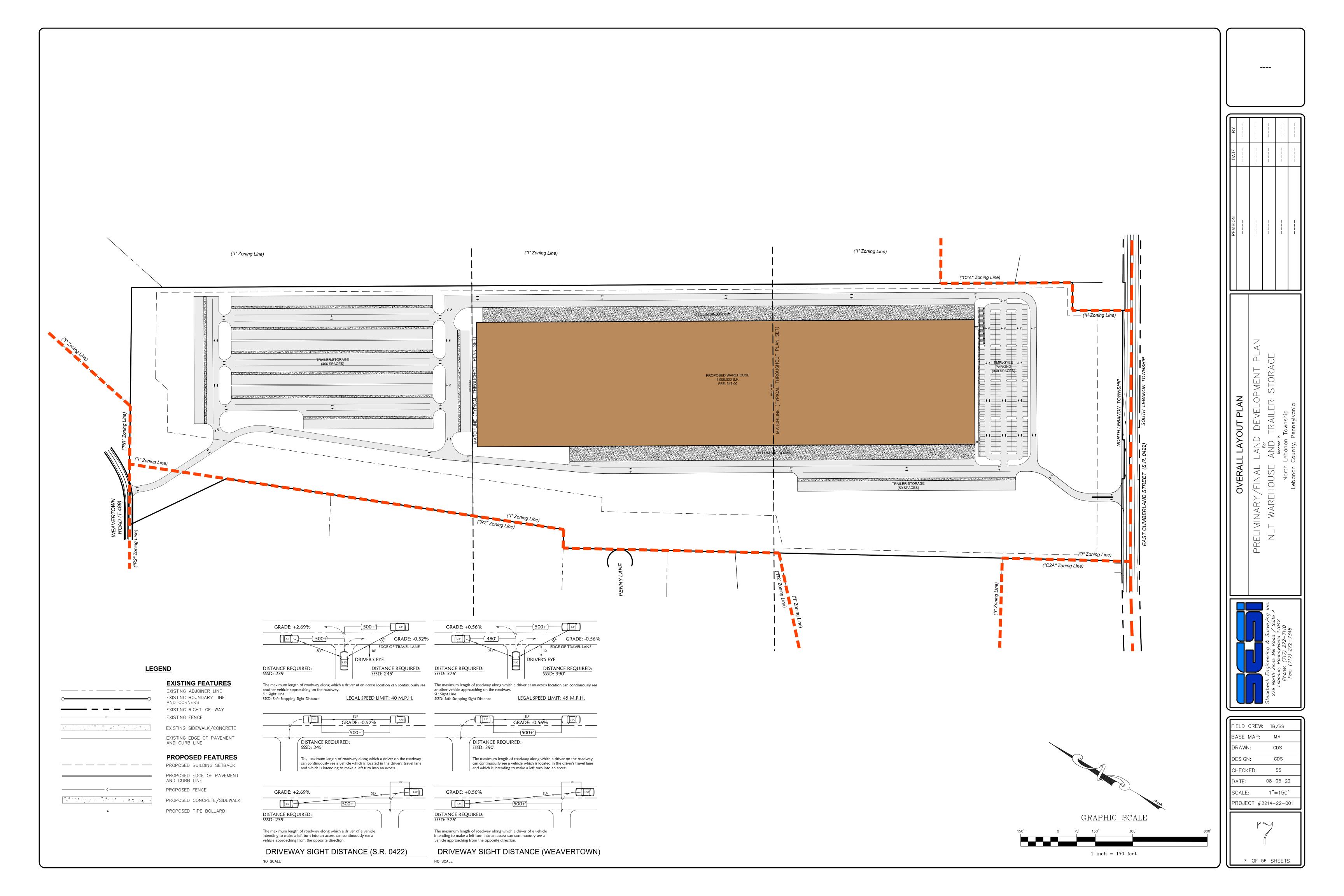
OR LATEST EERING AND SHALL BE ID IN TOTAL REA OF ANY OR CONFLICT ION OF THE	
INEERING & ULATION OR UILATION OR SURVEYING, VED IN THE THE RISK OF TE, COUNTY, O SHALL BE REGULATIONS E SAW-CUT ALITIES ICE OF ANY R ACCEPTED R DRAINAGE S FOUND IN ST OF OUR STECKBECK WARRANTY, ON THESE OF ACT 172) ASCERTAIN EITHER BY S, THEN BY	REVISION DATE BY
AND (2) OF SINRACTORS SINRACTORS SINRACTORS SINRENT TO FRESCRIED S DRAWINGS LIMIED TO PERFORMED ERAL LAWS, Table, 2018 CALL, AND COLLECT, AND COLLECT, AND COLLECT, AND COLLECT, AND SECTION 27 A OF THIS FRE FROST N SEDUENT E PROPOSED OTHERWISE WIN ON THE ALL BE THE LALL ALLOW PENNE AND D BY THE COLLECTE E SURFACE RPOSES OF SINRCTURES, THROUGHES, THROU	NOTES NOTES PRELIMINARY/FINAL LAND DEVELOPMENT PLAN NLT WAREHOUSE AND TRAILER STORAGE Incrth Lebanon Township Lebanon County, Pennsylvania
D THE CITY OR TO THE N TOWNSHIP	FIELD CREW: TB/SS BASE MAP: Maxwellic (2112) BASE MAP: Maxwellic (2112) BASE MAP: Maxwellic (2112) BASE CDS CHECKED: SS DATE: 08-05-22 SCALE: AS NOTED PROJECT #2214-22-001
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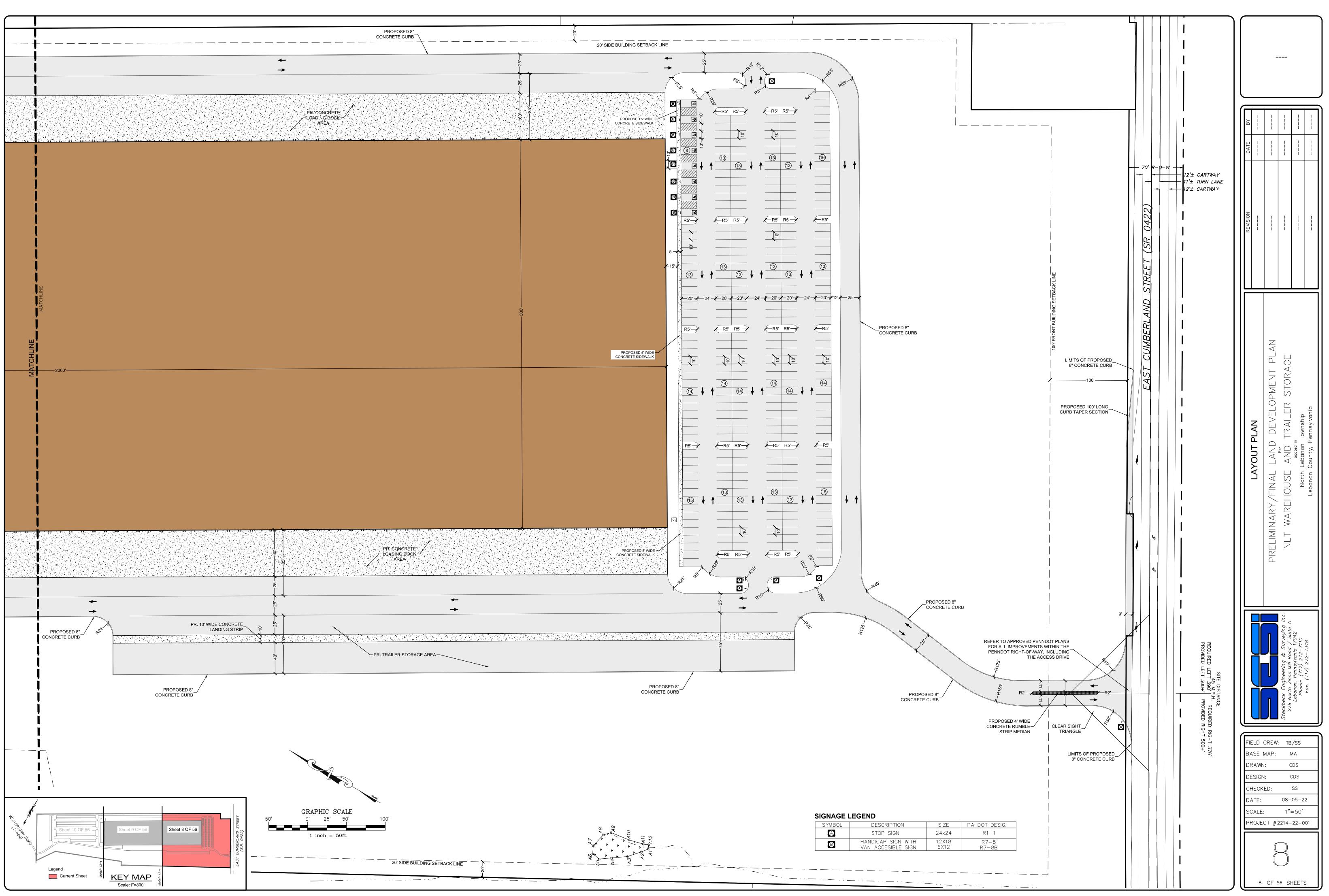




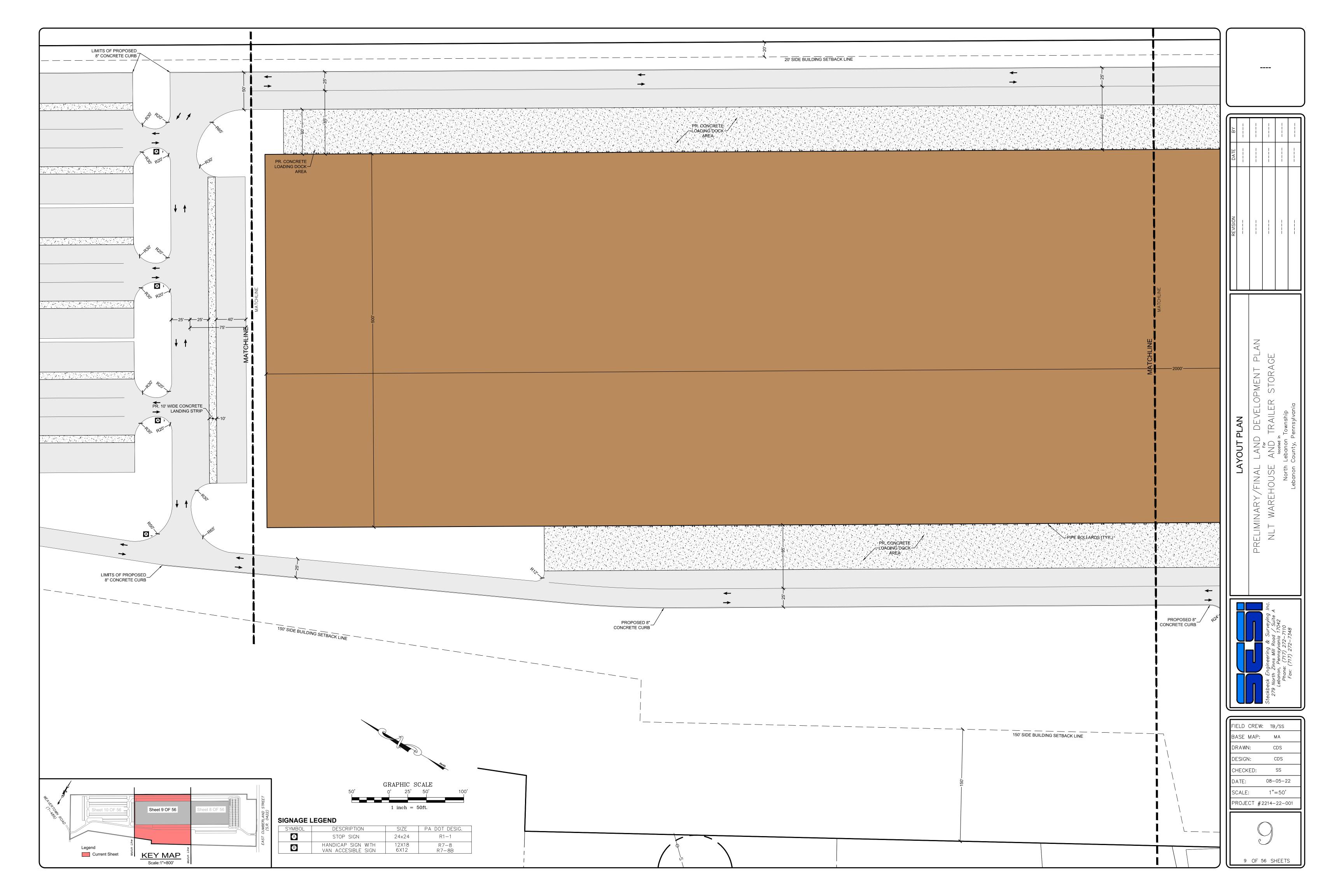


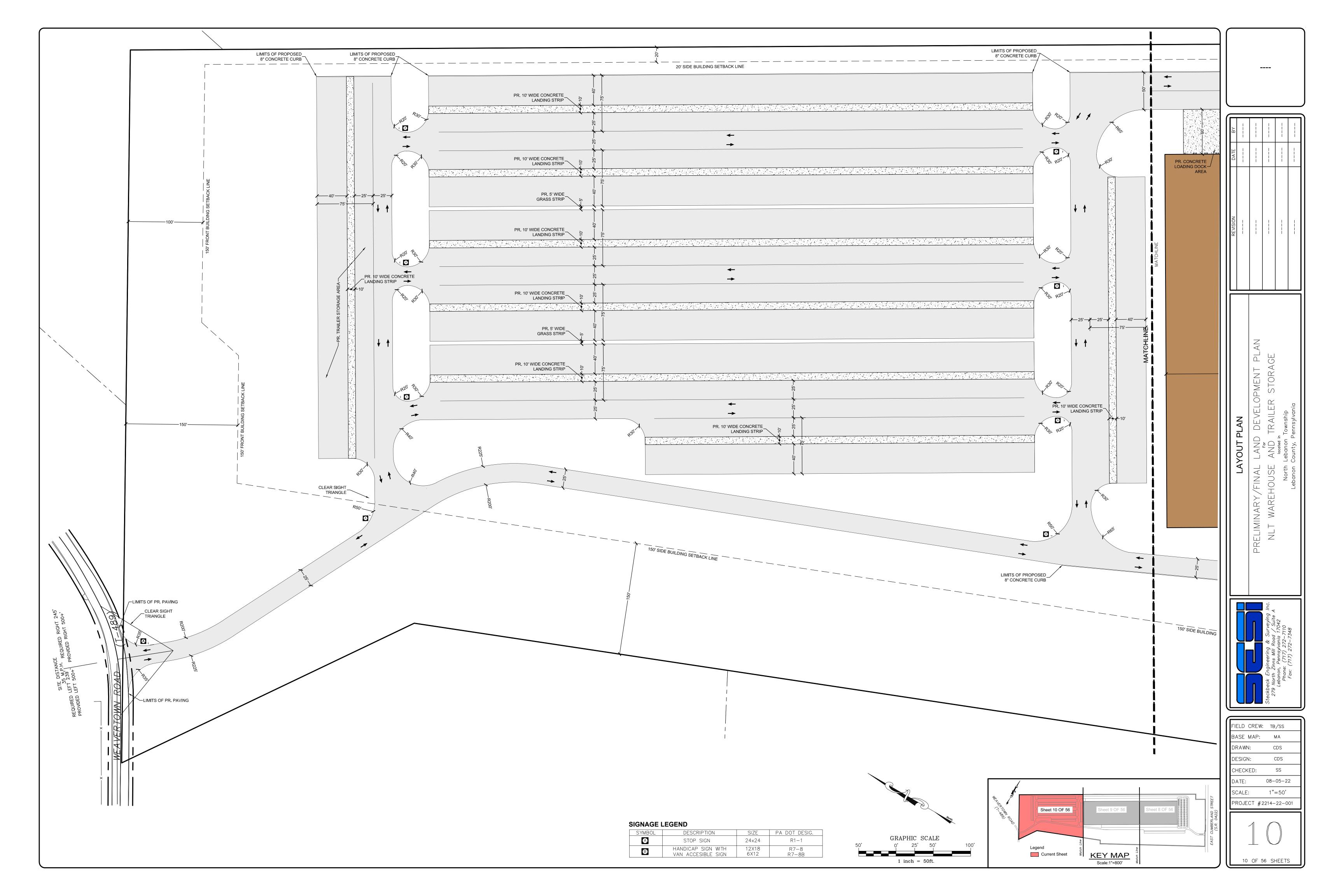


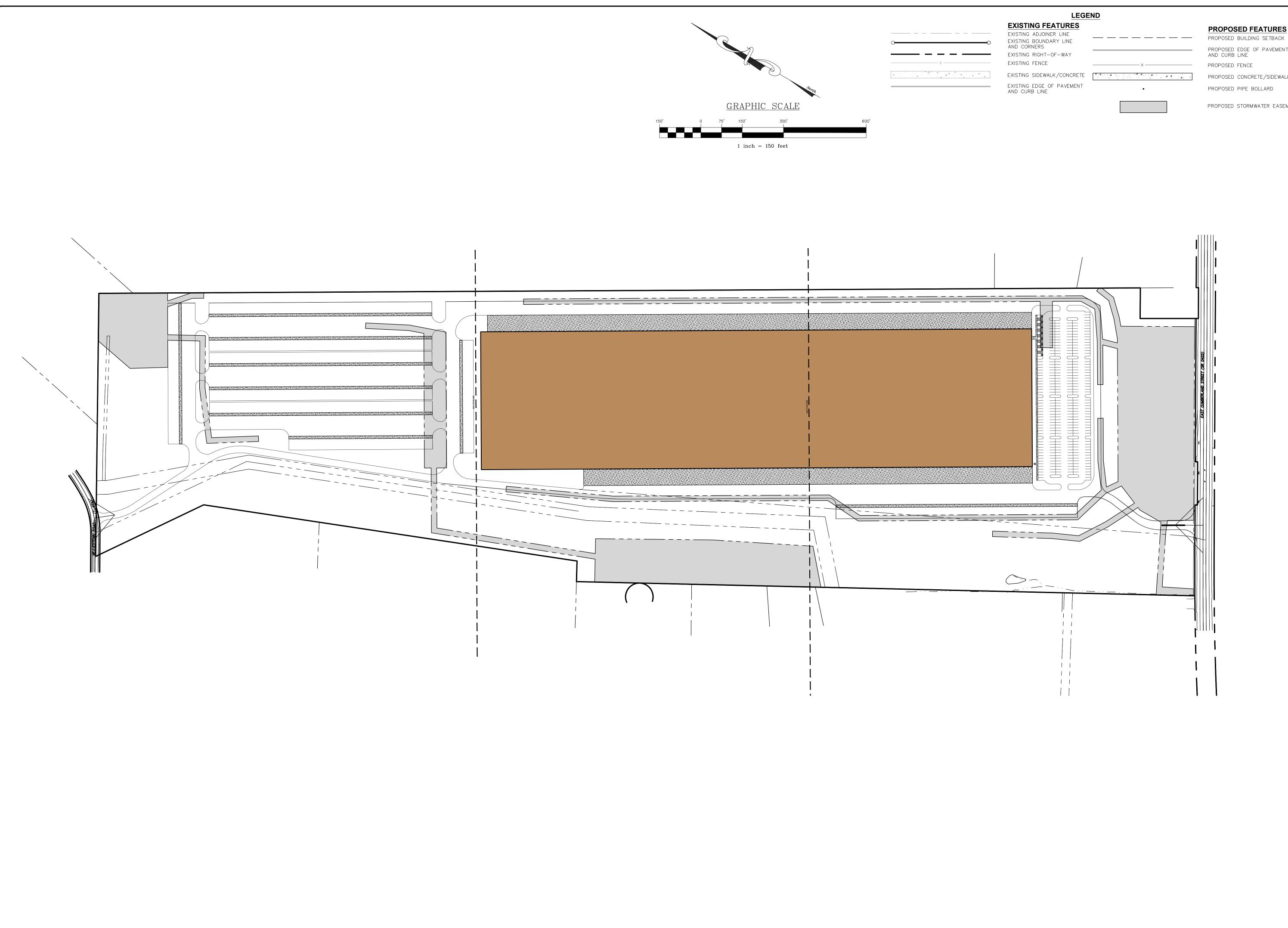


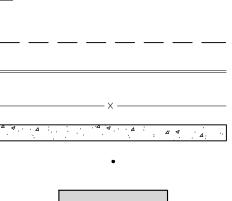


SYMBOL	DESCRIPTION
A	STOP SIGN
B	HANDICAP SIGN WITH VAN ACCESIBLE SIGN







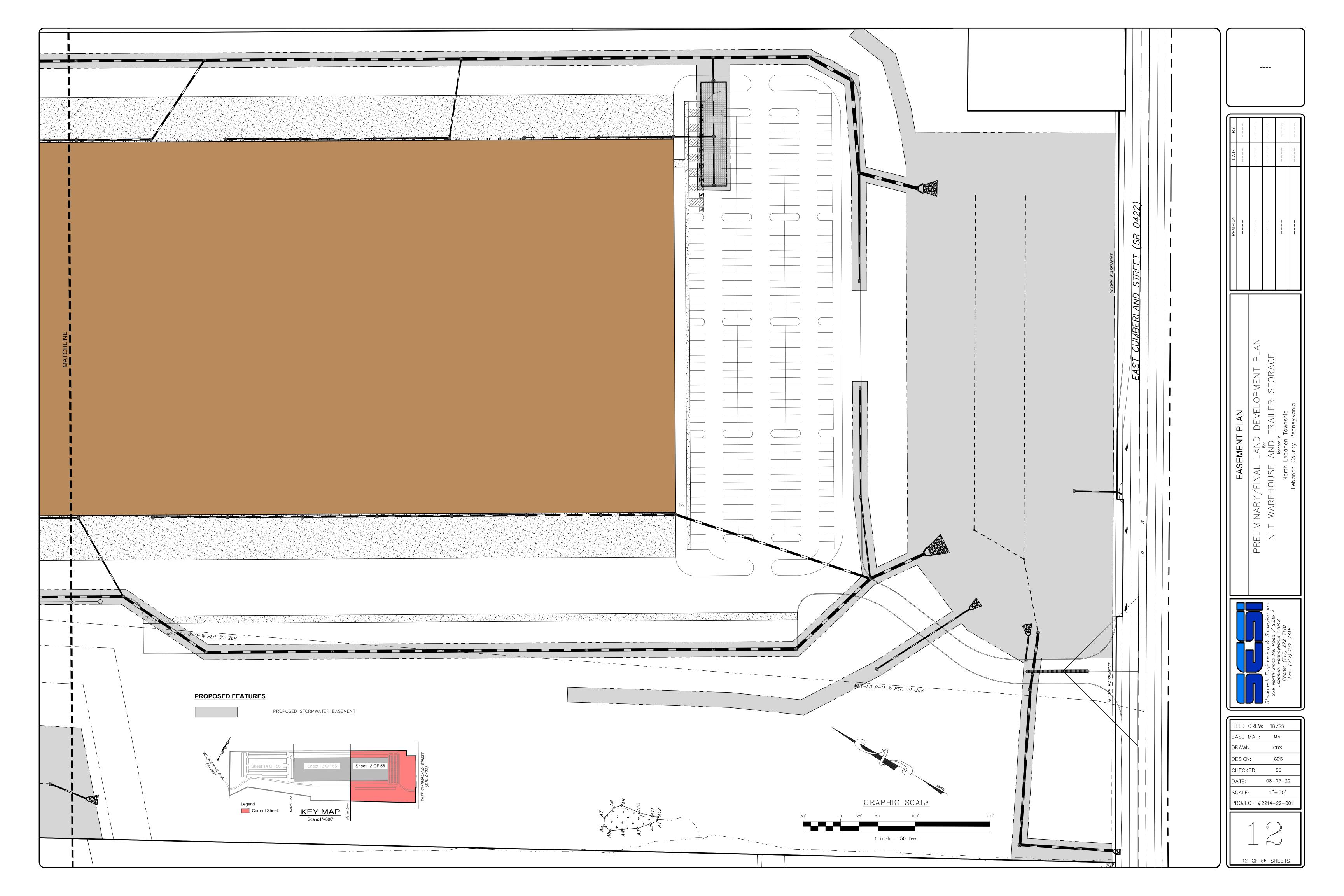


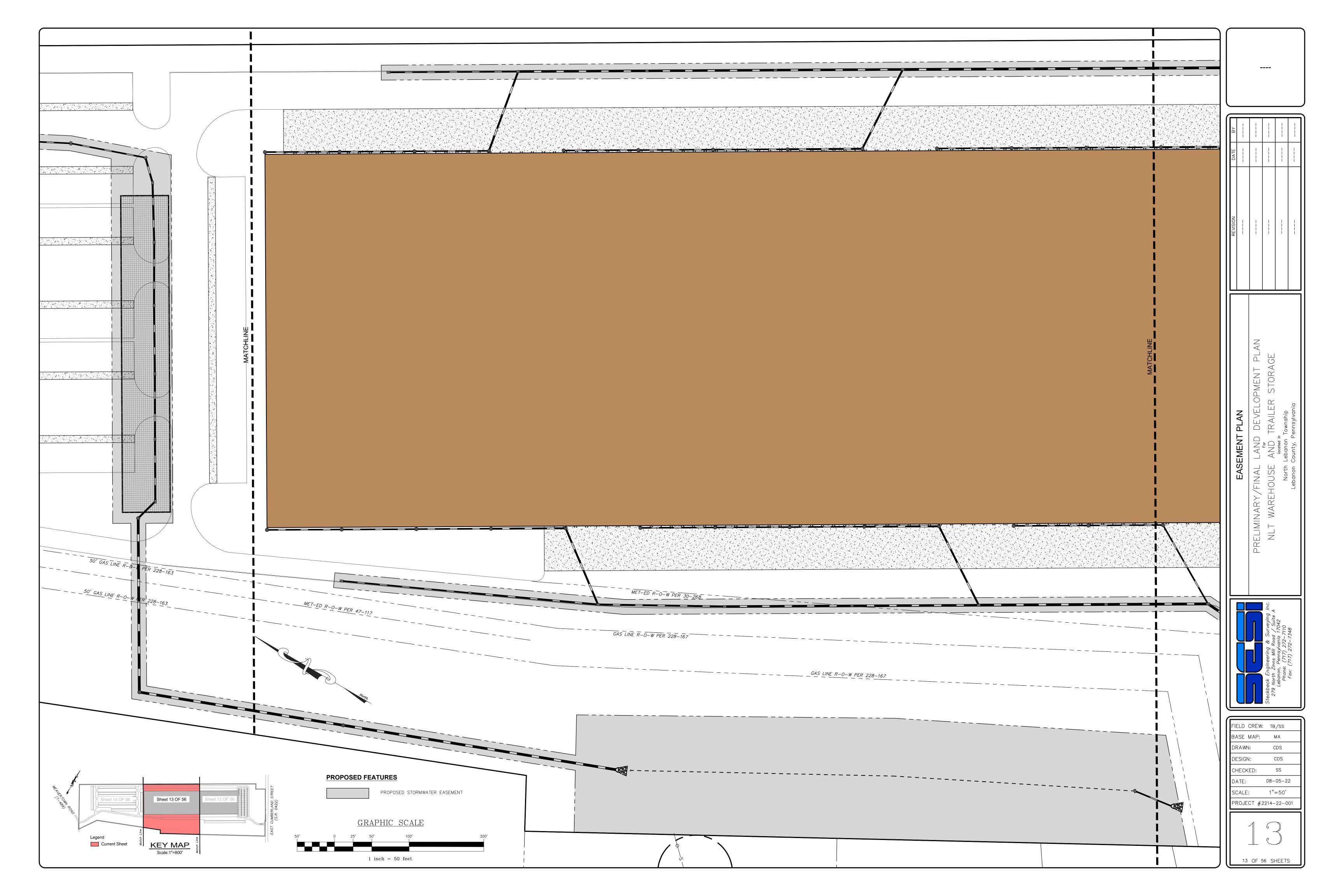
PROPOSED FEATURES

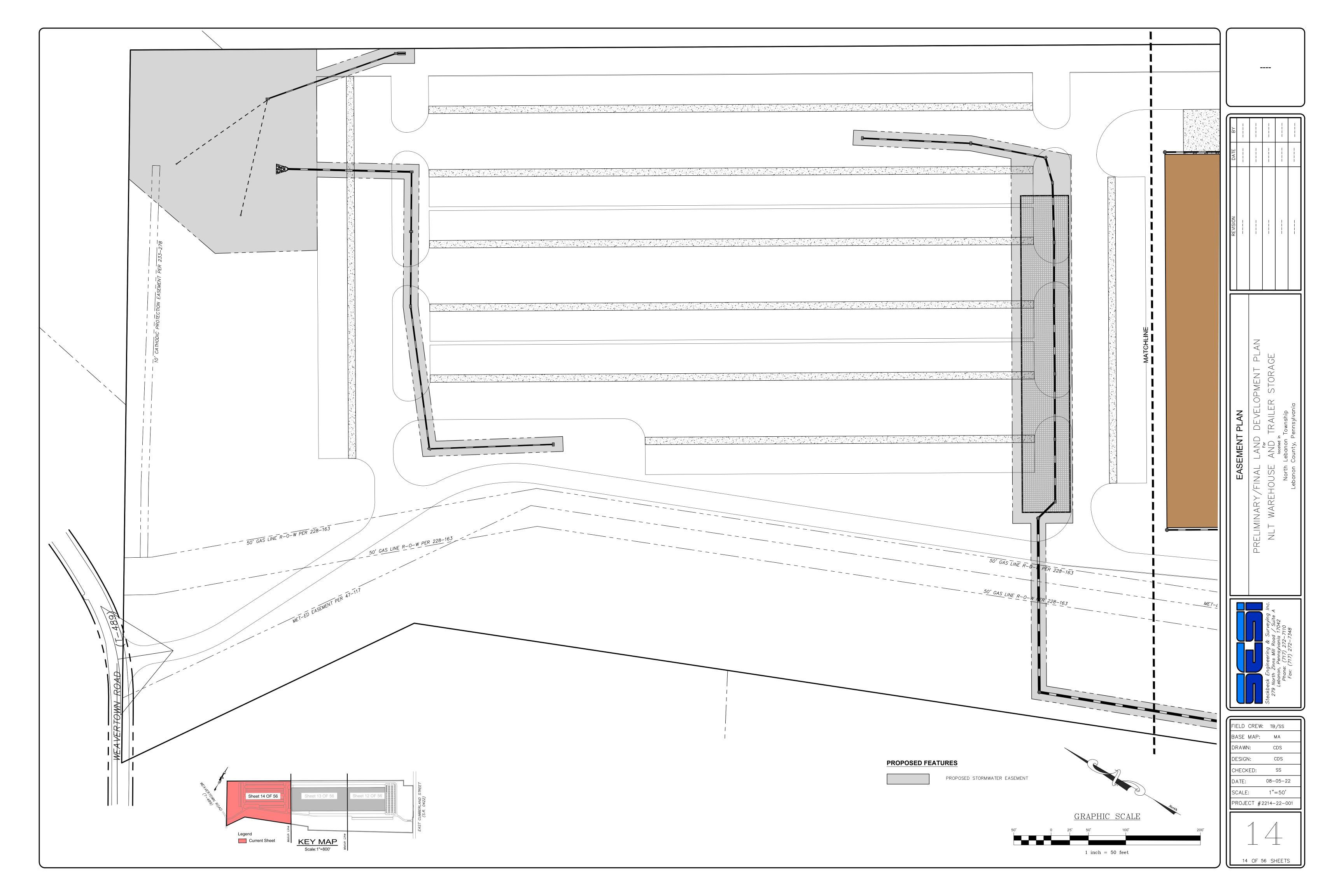
PROPOSED EDGE OF PAVEMENT AND CURB LINE PROPOSED FENCE PROPOSED CONCRETE/SIDEWALK

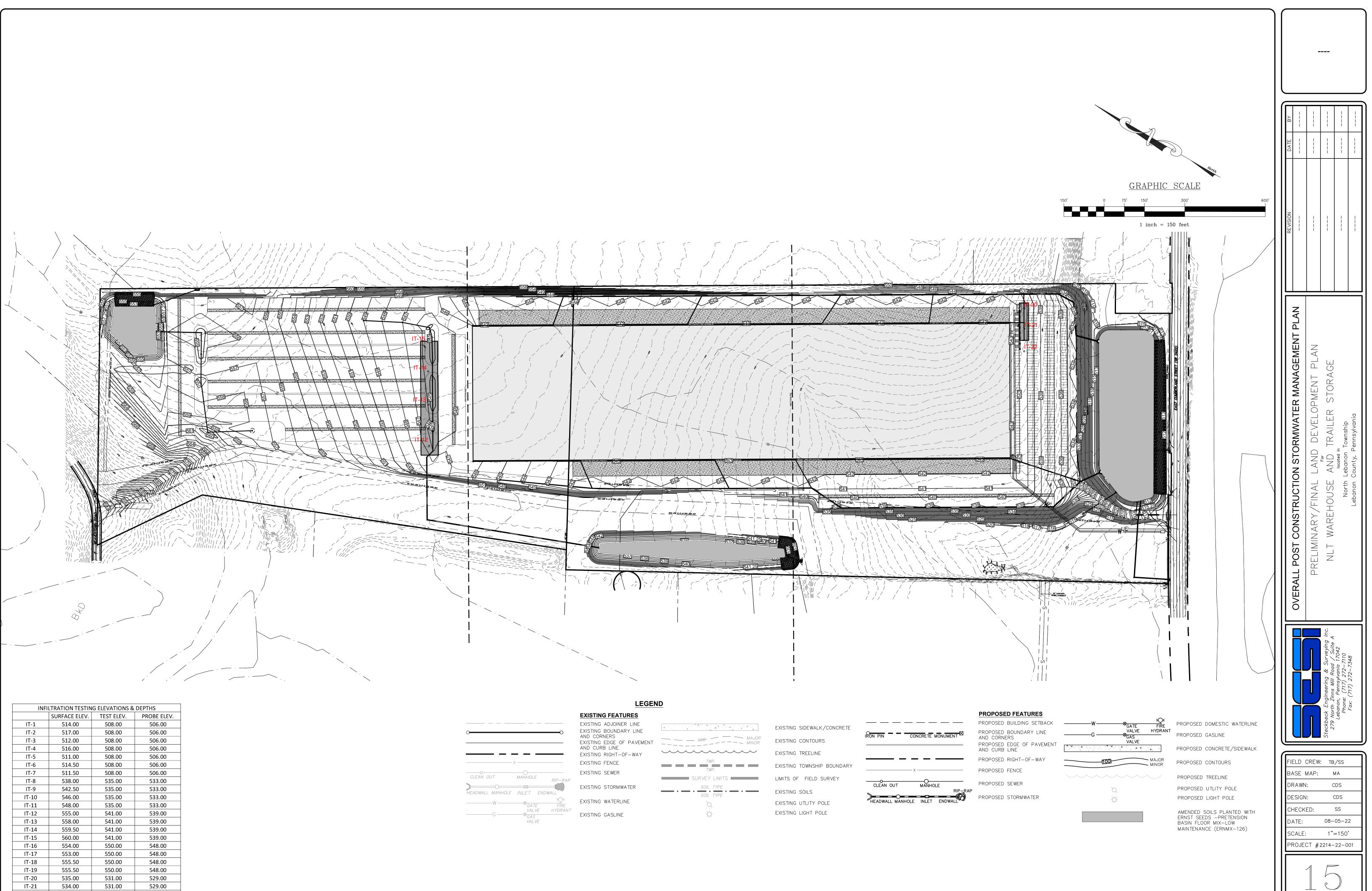
PROPOSED STORMWATER EASEMENT



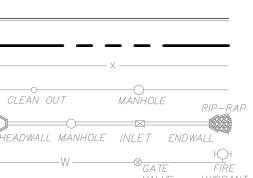


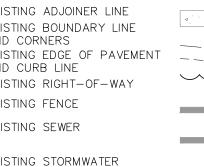






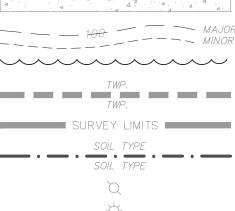
INFILTRATION TESTING ELEVATIONS & DEPTHS					
	SURFACE ELEV.	TEST ELEV.	PROBE ELEV.		
IT-1	514.00	508.00	506.00		
IT-2	517.00	508.00	506.00		
IT-3	512.00	508.00	506.00		
IT-4	516.00	508.00	506.00		
IT-5	511.00	508.00	506.00		
IT-6	514.50	508.00	506.00		
IT-7	511.50	508.00	506.00		
IT-8	538.00	535.00	533.00		
IT-9	542.50	535.00	533.00		
IT-10	546.00	535.00	533.00		
IT-11	548.00	535.00	533.00		
IT-12	555.00	541.00	539.00		
IT-13	558.00	541.00	539.00		
IT-14	559.50	541.00	539.00		
IT-15	560.00	541.00	539.00		
IT-16	554.00	550.00	548.00		
IT-17	553.00	550.00	548.00		
IT-18	555.50	550.00	548.00		
IT-19	555.50	550.00	548.00		
IT-20	535.00	531.00	529.00		
IT-21	534.00	531.00	529.00		
IT-22	533.00	531.00	529.00		

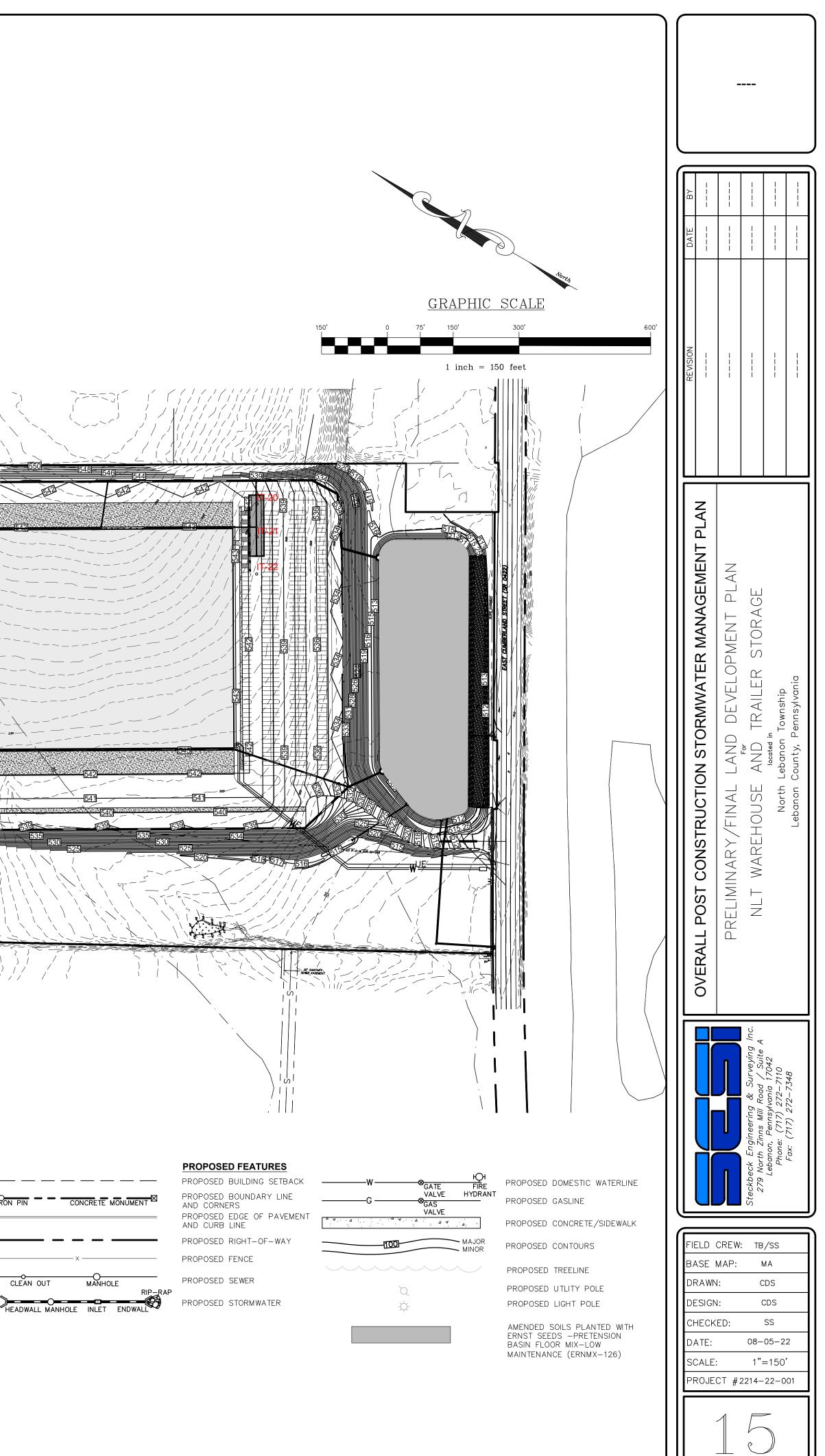




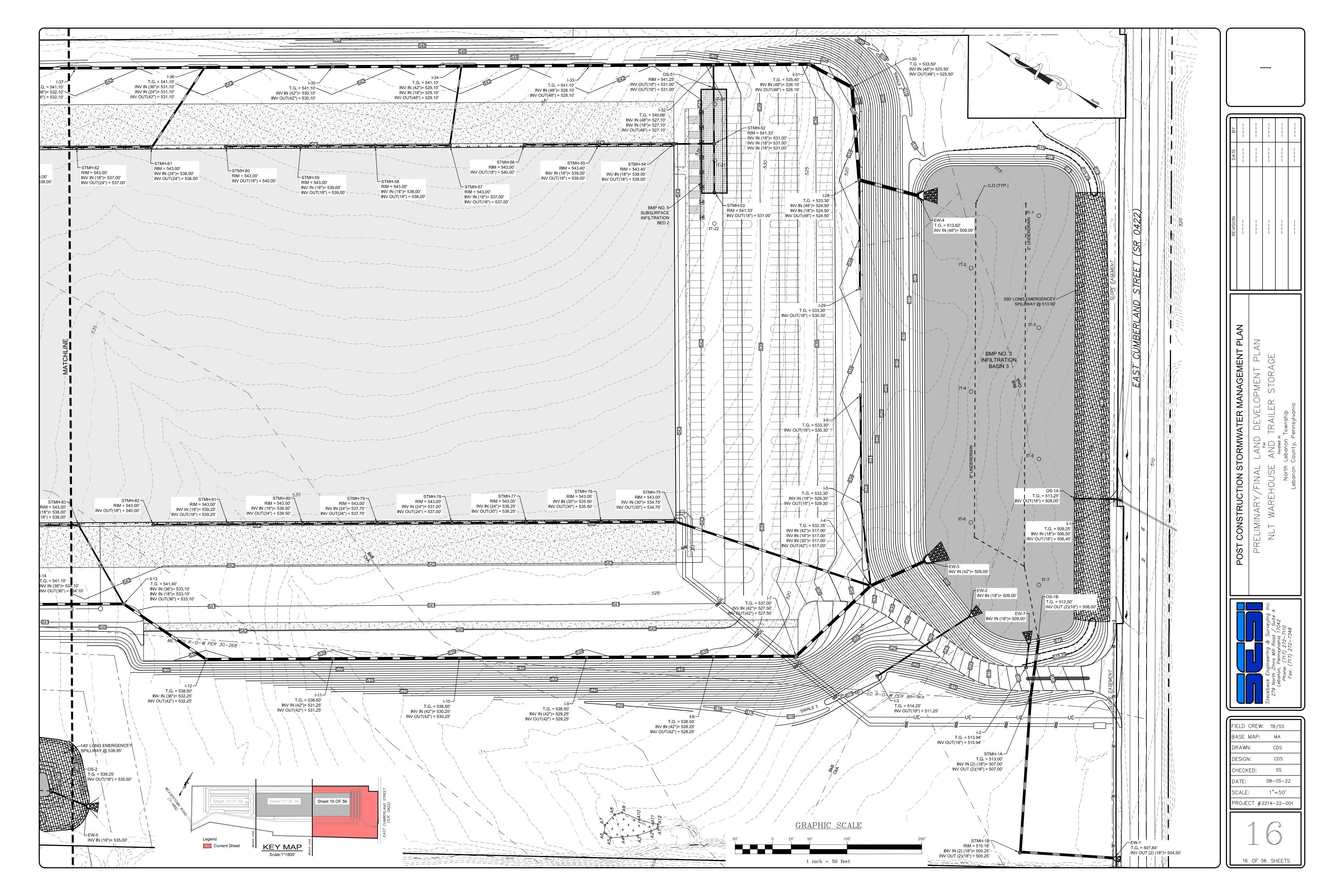


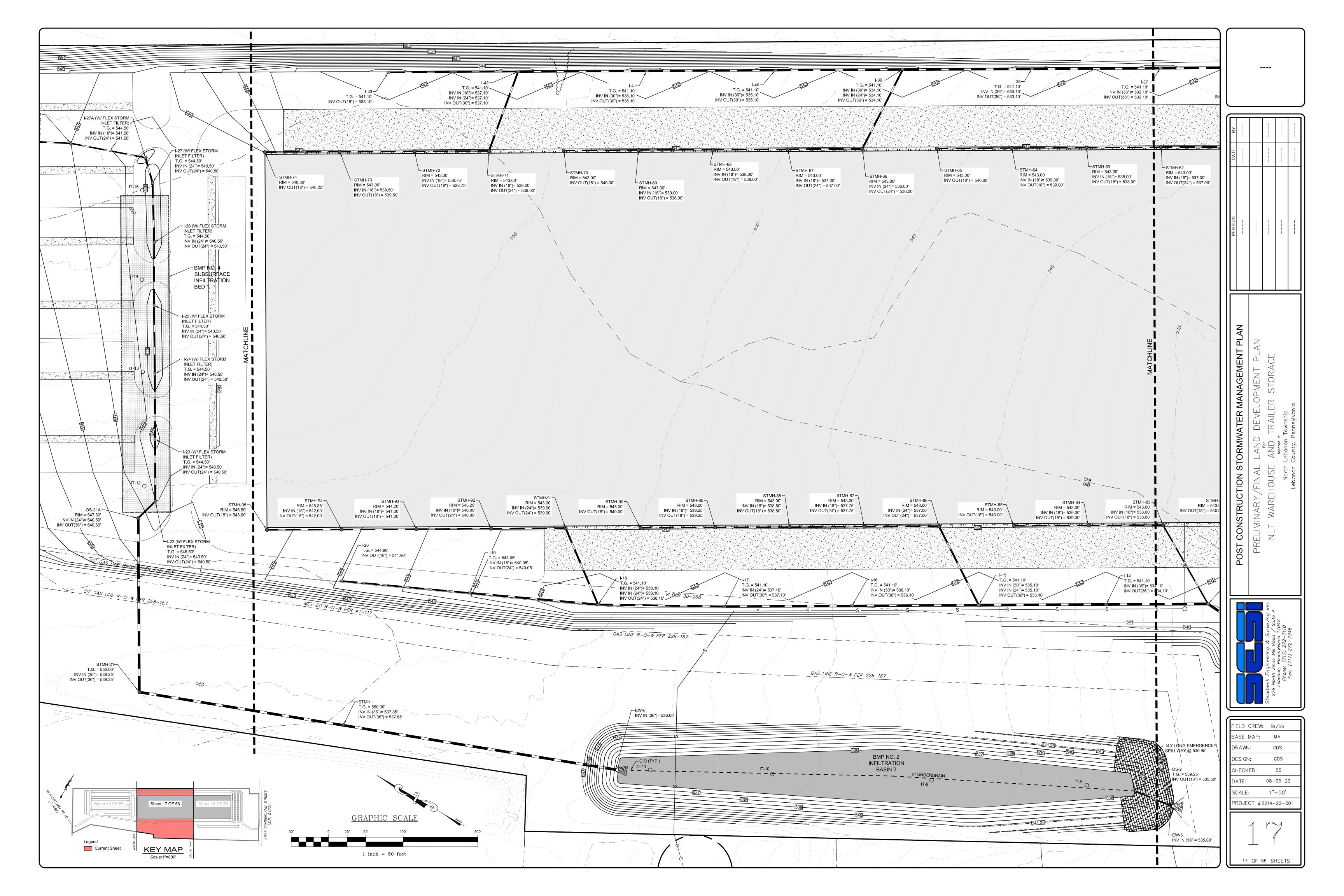


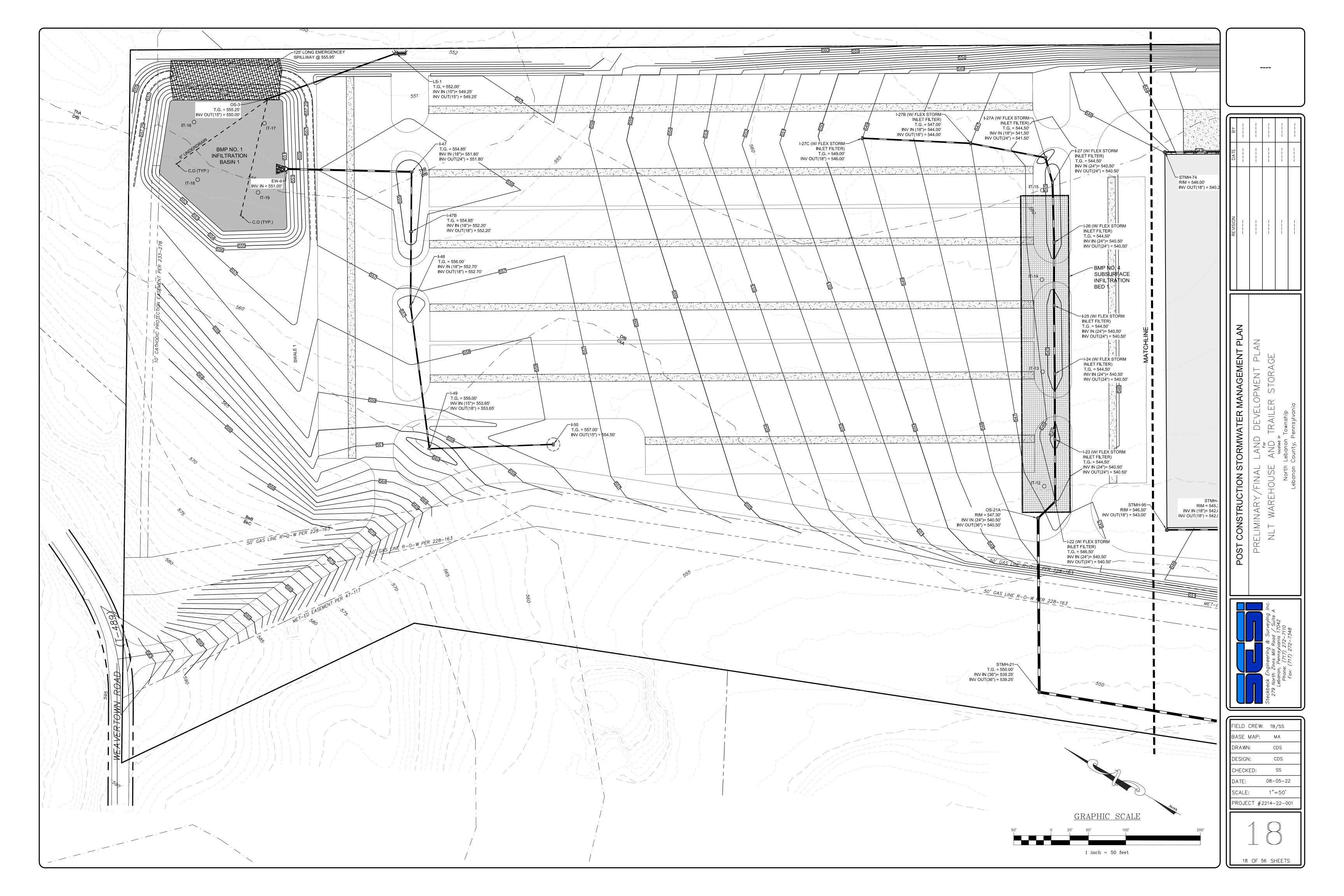




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POST CONSTRUCTION STORMWATER MANAGEMENT NARRATIVE NLT Warehouse and Trailer Storage

THE PROPOSED PRELIMINARY/FINAL LAND DEVELOPMENT PLAN FOR NLT WAREHOUSE AND TRAILER STORAGE, UPLANDS. SLOPE RANGES FROM 0 TO 80 PERCENT. PERMEABILITY IS MODERATE OR MODERATELY RAPID. MEAN LOCATED AT 2225 E. CUMBERLAND STREET IN NORTH LEBANON TOWNSHIP, LEBANON COUNTY. THIS NARRATIVE ANNUAL PRECIPITATION IS 42 INCHES. MEAN ANNUAL TEMPERATURE IS 52 DEGREES F. BERKS SOILS MAY BE SHALL BE CONSIDERED A PART OF THE POST CONSTRUCTION STORMWATER MANAGEMENT PLAN. PROJECT DETAILS

THE TOTAL TRACT OF PROPERTY IN QUESTION IS APPROXIMATELY 89.79 ACRES. THE TOTAL SITE AND EARTH CLARKSBURG SOILS - CLARKSBURG SOILS ARE SUBJECT TO WETNESS BUT NOT PONDING. THIS SOIL IS DISTURBANCE AS PART OF THIS PROJECT IS 80.74 ACRES. THE CURRENT SITE CONSISTS OF OPEN CONSIDERED TO BE EASILY ERODIBLE AND MAY HAVE A LOW DEPTH TO SATURATED ZONE/SEASONAL AGRICULTURAL FIELDS. BASED ON GOOGLE EARTH HISTORICAL IMAGERY, THE SITE HAS BEEN AGRICULTURAL HIGH-WATER TABLE. THIS SOIL IS SUSCEPTIBLE TO CAVING CUT BANKS AND CAN BE CORROSIVE TO BOTH SINCE THE EARLY 1990'S. BASED ON PENN PILOT HISTORICAL IMAGERY, THE SITE HAS BEEN AGRICULTURAL IN STEEL AND CONCRETE. THIS SOIL MAY BE SUBJECT TO HYDRIC INCLUSIONS, LOW STRENGTH, SLOW USE SINCE THE 1940S. THE SITE IS BORDERED TO THE NORTH BY WEAVERTOWN ROAD AND A RESIDENTIAL PERCOLATION, PIPING, FROST ACTION, AND SHRINK/SWELL. THIS SOIL MAY BE A POOR SOURCE OF TOPSOIL PROPERTY, TO THE WEST BY RESIDENTIAL PROPERTIES, COMMERCIAL PROPERTIES, AND THE UNION CANAL AND SUSCEPTIBLE TO SINKHOLE FORMATION. ELEMENTARY SCHOOL, TO THE EAST BY A RESIDENTIAL PROPERTY, COMMERCIAL PROPERTY, AND COMLY SOILS - THE COMLY SERIES CONSISTS OF VERY DEEP, MODERATELY WELL DRAINED. THESE SOILS AGRICULTURAL FIELD, AND TO THE SOUTH BY EAST CUMBERLAND STREET (SR 0422). PROPOSED FORMED COLLUVIUM WEATHERED FROM ACID BROWN AND GRAY SHALE, SANDSTONE, AND SILTSTONE. THEY ARE IMPROVEMENTS INCLUDE THE CONSTRUCTION OF A 1,000,000 SQUARE FOOT WAREHOUSE, EMPLOYEE PARKING ON CONCAVE UPLAND SLOPES OF 0 TO 25 PERCENT. PERMEABILITY IS MODERATE ABOVE THE FRAGIPAN AND SPACES, TRAILER STORAGE PARKING SPACES, ACCESS DRIVES, CONNECTION TO PUBLIC SEWER AND WATER, MODERATELY SLOW IN THE FRAGIPAN. MEAN ANNUAL PRECIPITATION IS 44 INCHES, MEAN ANNUAL AND ASSOCIATED STORMWATER MANAGEMENT FACILITIES. THE ANTICIPATED SITE DISTURBANCE SHALL INCLUDE GRADING AS WELL AS ADDITIONAL IMPERVIOUS AREA WHICH WILL BE TREATED ON-SITE BY STORMWATER MANAGEMENT BMPS. TWO (2) ABOVE GROUND INFILTRATION BASINS, TWO (2) SUBSURFACE INFILTRATION BEDS, SUSCEPTIBLE TO A SEASONALLY HIGH WATER TABLE, HYDRIC INCLUSIONS, PIPING, FROST ACTION, AND A POOR AND ONE (1) MRC BASIN ARE PROPOSED TO MANAGE THE SITE RUNOFF. STORMWATER RUNOFF FROM THE SITE SOURCE OF TOPSOIL. WILL REACH THE TULPEHOCKEN CREEK WHICH IS DESIGNATED AS COLD WATER FISHES (CWF). THE ULPEHOCKEN CREEK IS IMPAIRED ACCORDING TO CATEGORY 5 OF THE PA INTEGRATED WATER QUALITY MONITORING AND ASSESSMENT REPORT FOR AQUATIC LIFE: EROSION FROM DERELICT LAND - SILTATION, AQUATIC LIFE: AGRICULTURE - SILTATION, AND RECREATIONAL: SOURCE UNKNOWN - PATHOGENS.

CALCULATIONS

POST CONSTRUCTION STORMWATER MANAGEMENT FACILITIES WERE DESIGNED IN ACCORDANCE WITH THE STANDARDS ESTABLISHED IN THE PENNSYLVANIA STORMWATER MANAGEMENT BMP MANUAL (PA DEP BUREAU THORNDALE SOILS – THE THORNDALE SERIES CONSISTS OF VERY DEEP, POORLY DRAINED SOILS FORMED IN OF WATERSHED MANAGEMENT, DECEMBER 2006), PA CODE CHAPTER 102, AND THE NORTH LEBANON TOWNSHIP MEDIUM TEXTURED COLLUVIUM DERIVED FROM LIMESTONE, CALCAREOUS SHALE, AND SILTSTONE. SLOPES RANGE STORMWATER MANAGEMENT ORDINANCE (ORDINANCE NO. 6-2022).

HYDROLOGY

GENERATED BY THE PROPOSED IMPROVEMENTS AND TO CONTROL THE FLOW TO A RATE LESSER THAN OR SUSCEPTIBLE TO FROST ACTION, SHRINK-SWELL, SINKHOLES, AND WETNESS BUT NOT PONDING. EQUAL TO THE PRE-DEVELOPMENT RUNOFF. FOLLOWING THE REQUIREMENTS OF THE PA CODE CHAPTER 102.8 AND THE NORTH LEBANON TOWNSHIP STORMWATER MANAGEMENT ORDINANCE. IN ORDER TO PROVIDE WATER QUALITY, VOLUME CONTROL, AND RATE CONTROL, THE SITE WILL BE SERVED BY ONE (1) MANAGED RELEASE CONCEPT (MRC) BASIN, TWO (2) INFILTRATION BASINS, AND TWO (2) SUBSURFACE INFILTRATION BEDS. THE STRUCTURAL BMPS ARE DESIGNED TO MANAGE THE DISCHARGE RATE TO A RATE EQUAL OR LOWER THAN THE PREDEVELOPMENT RATE AND TO INFILTRATE THE 2-YR 24-HOUR VOLUME INCREASE. THE CURVE NUMBERS ARE TAKEN FROM THE NORTH LEBANON TOWNSHIP SWM ORDINANCE. SUPPORTING CALCULATIONS CAN BE SEEN N THE DEP PCSM SPREADSHEETS.

PER THE NORTH LEBANON TOWNSHIP STORMWATER MANAGEMENT ORDINANCE, THE SITE IS LOCATED WITHIN THE TULPEHOCKEN A - STORMWATER MANAGEMENT DISTRICT AND AS SUCH, POST-DEVELOPMENT DISCHARGE FLOW RATES MUST MEET THE FOLLOWING CRITERIA.

PRE-DEVELOPED		POST-DEVELOPED
2 – YEAR	<	OR = TO 1 - YR PRE
5 – YEAR	<	OR = TO 5 - YR PRE
10 – YEAR	<	OR = TO 10 - YR PRE
25 – YEAR	<	OR = TO 25 - YR PRE
100 – YEAR	<	OR = TO 100 - YR PRE

THE SCS METHOD WAS USED TO DETERMINE PEAK FLOW RATES FOR BOTH PRE- AND POST-DEVELOPED CONDITIONS. THE RESULTING POST DEVELOPMENT RUNOFE FLOW RATES HAVE BEEN REDUCED TO REQUIRED PRE-DEVELOPMENT RELEASE RATES AS SHOWN IN THE TABLE ABOVE. THE STORMWATER FACILITIES WILL SATISFY THE APPLICABLE STORMWATER MANAGEMENT RATE REQUIREMENTS, WHICH CAN BE SEEN IN THE FLOW SUMMARY TABLE. HYDROCAD V10.0 SOFTWARE WAS USED TO PERFORM ALL BASIN ROUTING CALCULATIONS.

THIS PCSM PLAN IS DESIGNED TO MINIMIZE ANY INCREASE IN STORMWATER RUNOFF VOLUME AND PREVENT AN INCREASE IN THE RATE OF STORMWATER RUNOFF. IN ORDER TO ANALYZE THE EFFECTIVENESS OF THE PROPOSED STORMWATER MANAGEMENT PLAN THE DRAINAGE PATTERN IS ANALYZED AS FOUR (4) POINTS OF INTEREST.

DISCHARGE POINT 001 (DP 001) IS LOCATED AT A LOW SPOT ALONG THE EASTERN PROPERTY LINE. RUNOFF WILL DISCHARGE OVERLAND FOR APPROXIMATELY 970 FEET PRIOR TO REACHING THE TULPEHOCKEN CREEK.

DISCHARGE POINT 002 (DP 002) IS LOCATED AT A LOW SPOT ALONG THE EASTERN PROPERTY LINE. RUNOFF WILL DISCHARGE OVERLAND FOR APPROXIMATELY 960 FEET PRIOR TO REACHING THE TULPEHOCKEN CREEK.

DISCHARGE POINT 003 (DP 003) IS LOCATED AT AN EXISTING 18" STORM PIPE CROSSING SR 0422 NEAR THE MIDDLE OF THE SOUTHERN PROPERTY LINE. RUNOFF REACHING THIS PIPE WILL DISCHARGE ACROSS THE ROAD TO THE EXISTING QUARRY.

DISCHARGE POINT 004 (DP 004) IS LOCATED AT AN EXISTING 15" STORM PIPE CROSSING SR 0422 AT THE SOUTHEAST CORNER OF THE PROPERTY. RUNOFF REACHING THIS PIPE WILL DISCHARGE ACROSS THE ROAD TO THE EXISTING QUARRY.

THERMAL IMPACTS ANALYSIS

ALL EXISTING SITE RUNOFF CURRENTLY LEAVES THE SITE UN-DETAINED WITH NO TREATMENT OF THIS RUNOFF TREAT THE MAJORITY OF PROPOSED IMPERVIOUS AREAS. RUNOFF REACHING THE TWO (2) INFILTRATION BASINS WILL BE COOLED BY THE NATIVE VEGETATION IN THE BASIN BOTTOM BEFORE BEING INFILTRATED THROUGH THE ENGINEERED SOIL MIX AND INTO THE GROUND. RUNOFF REACHING THE TWO (2) SUBSURFACE INFILTRATION BEDS WILL BE COOLED NATURALLY BY BEING DETAINED BENEATH THE GROUND AND AWAY FROM SUNLIGHT BEFORE BEING INFILTRATED INTO THE GROUND. RUNOFF REACHING THE MRC BASIN WILL BE COOLED BY THE NATIVE VEGETATION IN THE BASIN BOTTOM BEFORE BEING FILTERED THROUGH TWO FEET OF AMENDED SOILS AND SLOWLY RELEASED THROUGH THE UNDERDRAIN SYSTEM. TREES ARE ALSO PROPOSED IN AND AROUND THE PAVED AREAS TO SHADE A PORTION OF THESE AREAS WHICH WILL PROVIDE TEMPERATURE RELIEF FOR RUNOFF THAT FLOWS OVER THE IMPERVIOUS SURFACES.

WATER QUALITY AND NON-DISCHARGE ANALYSIS

THE SITE HAS BEEN DESIGNED TO MEET THE NPDES REQUIREMENTS AS CALCULATED IN THE DEP PCSM SPREADSHEET - QUALITY. THROUGH THE IMPLEMENTATION OF THE STRUCTURAL BMPS THE WATER QUALITY REQUIREMENTS HAVE BEEN MET FOR THIS SITE. PLEASE SEE THE STANDARD DEP PCSM SPREADSHEETS FOR A MORE IN-DEPTH DESCRIPTION OF HOW THE REQUIREMENTS ARE MET FOR THIS SITE.

PROPOSED BEST MANAGEMENT PRACTICES

– INFILTRATION BASIN – TWO (2) INFILTRATION BASINS WILL BE UTILIZED TO PROMOTE INFILTRATION, EVAPORATION. AND EVAPOTRANSPIRATION AND CONTROL FLOW AND VOLUME LEAVING THE SITE MRC INFILTRATION BASIN - ONE (1) MRC INFILTRATION BASIN WILL BE UTILIZED TO PROMOTE INFILTRATION TESTING REQUIREMENTS EVAPORATION, AND EVAPOTRANSPIRATION AND CONTROL FLOW AND VOLUME LEAVING THE SITE. - SUBSURFACE INFILTRATION BED - TWO (2) SUBSURFACE INFILTRATION BEDS WILL BE UTILIZED TO

PROMOTE INFILTRATION AND CONTROL FLOW AND VOLUME LEAVING THE SITE.

PROTECTION, ROCK CONSTRUCTION ENTRANCES, AND SEDIMENT BASINS.

OFFSITE DISCHARGE ANALYSIS

THE FOLLOWING IS AN EXCERPT FROM THE PA DEP FAQ SHEET LABELED CHAPTER 102 OFF-SITE DISCHARGES OF STORMWATER TO NON-SURFACE WATERS (JANUARY 2, 2019). FAQ #2 STATES, "PERSONS PROPOSING TO DISCHARGE MUST HAVE THE LEGAL AUTHORITY TO DISCHARGE THEIR STÖRMWATER EITHER THROUGH EITHER A COMMON LAW EASEMENT OR AN EXPRESS EASEMENT. FOR SITES THAT DISCHARGE TO EXISTING SWALES, CONTRACTOR (UNKNOWN AT THIS TIME), WHO SHALL BE LISTED AS THE CO-PERMITTEE ON THE NPDES PERMIT. DITCHES, STORM SEWERS OR SIMILAR STRUCTURES WHERE THE NEW ACTIVITIES WILL NOT RESULT IN A CHANGE IN VOLUME OR RATE OF STORMWATER RUNOFF (FOR ALL STORM EVENTS), THE EXISTING COMMON LAW

EASEMENT COULD BE RELIED UPON."

CHAPTER 102.8 (B) ANALYSIS

PRE-DEVELOPMENT.

THE STREAM CHANNEL IS PROTECTED BY THE FLOW REDUCTION PROVIDED FROM THE PROPOSED STORMWATER BMP 6.4.2: INFILTRATION BASIN (INCLUDING MRC DESIGN) MANAGEMENT FACILTIES. THE STRUCTURAL BMPS ALLOWS FOR REDUCED FLOW TO ALL DISCHARGE POINTS, AND THEREFORE THE DOWNSTREAM CHANNEL WILL NOT BE IMPACTED. THE SAME FLOW REDUCTION AND WATER AN INFILTRATION BASIN IS A SHALLOW IMPOUNDMENT THAT STORES AND INFILTRATES RUNOFF OVER A LEVEL, QUALITY BENEFITS PROVIDED BY THE STRUCTURAL AND NON-STRUCTURAL BMPS WILL ALSO SERVE TO UN-COMPACTED (PREFERABLY UNDISTURBED AREA) WITH RELATIVELY PERMEABLE SOILS. PROTECT THE EXISTING DRAINAGE FEATURES AND DOWNSTREAM VEGETATION.

SOIL INFORMATION AND GEOLOGY

ACTIVITIES. THESE SOILS CAN ERODE WHEN DISTURBED. EROSION WILL BE CONTROLLED WITH STANDARD PLANTED WITH ERNST SEEDS RETENTION BASIN FLOOR MIX - LOW MAINTENANCE (ERNMX-126) WHICH WILL

	SOIL DATA		
MAP SYMBOL	SOIL NAME	SLOPE	HYDROLOGIC GROUP
BeB	BEDINGTON SHALY SILT LOAM	3-8%	В
BkB	BERKS CHANNERY SILT LOAM	3-8%	В
BkC	BERKS CHANNERY SILT LOAM	8-15%	В
BkD	BERKS CHANNERY SILT LOAM	15-25%	В
CkA	CLARKSBURG SILT LOAM	0-3%	С
CmA	COMLY SILT LOAM	0-3%	С
DfB	DUFFIELD SITL LOAM	3-8%	В
ThA	THRONDALE SILT LOAM	0-3%	С
ThB	THRONDALE SILT LOAM	3-8%	С

* IF SOILS ARE BOLD THEY ARE DISTURBED DURING CONSTRUCTION ON THIS PROJECT

THE PA DEP'S EMAPPA DOES NOT IDENTIFY ANY KNOWN KARST FEATURES ON SITE. THE ENTIRE SITE UNDERLAIN BY THE HERSHEY AND MYERSTOWN FORMATIONS WHICH IS COMPRISED OF ARGILLACEOUS LIMESTONE AND LIMESTONE. LIMESTONE IS SUSCEPTIBLE TO KARST ACTIVITY. SHOULD A GEOTECHNICAL HAZARD BE ENCOUNTERED, THE COUNTY CONSERVATION DISTRICT WILL BE IMMEDIATELY CONTACTED, AND A CERTIFIED GEOTECHNICAL ADVISOR WILL BE REQUIRED TO OVERSEE MITIGATION OF THE HAZARDS.

BEDINGTON SOILS - THE BEDINGTON SERIES CONSISTS OF VERY DEEP, WELL DRAINED SOILS. BEDINGTON SOILS 2. DETRITUS MAY ALSO NEED TO BE REMOVED EVERY YEAR. PERENNIAL PLANTINGS MAY BE CUT DOWN AT FORMED IN RESIDUUM FROM DARK BROWN, GRAY AND OLIVE ACID, SEDIMENTARY, SILTSTONE AND SHALE, WITH SOME SANDSTONE INTERBEDS. THEY ARE ON NEARLY LEVEL TO STEEP CONVEX UPLANDS AND ON THE SIDESLOPES OF HILLS AND RIDGES. PERMEABILITY IS MODERATE. MEAN ANNUAL PRECIPITATION IS 42 INCHES. MEAN ANNUAL TEMPERATURE IS 52 DEGREES F. BEDINGTON SOILS MAY BE SUSCEPTIBLE TO CUT BANKS AND CAVE INS AND CORROSIVE TO CONCRETE. THIS SOIL MAY ALSO BE SUBJECT TO DROUGHT AND MAY BE EASILY

ERODIBLE. BEDINGTON SOILS MAY ALSO BE SUSCEPTIBLE TO HYDRIC INCLUSIONS, SLOW PERCOLATION, FROST 4. DURING PERIODS OF EXTENDED DROUGHT, AREAS MAY REQUIRE WATERING ACTION, AND A POOR SOURCE OF TOPSOIL.

BERKS SOILS - THE BERKS SERIES CONSISTS OF MODERATELY DEEP. WELL DRAINED SOILS FORMED IN THIS NARRATIVE IS INTENDED TO ACCOMPANY THE POST CONSTRUCTION STORMWATER MANAGEMENT PLAN FOR RESIDUUM WEATHERED FROM SHALE, SILTSTONE AND FINE-GRAINED SANDSTONE ON ROUNDED AND DISSECTED MAINTENANCE AND INSPECTION SUSCEPTIBLE TO CUT BANKS AND CAVE INS, CORROSIVE TO CONCRETE, DROUGHTY, AND EASILY ERODIBLE. THIS SOIL MAY ALSO BE SUBJECT TO HYDRIC INCLUSIONS, SLOW PERCOLATION, PIPING, AND A POOR SOURCE OF TOPSOIL

TEMPERATURE IS 51 DEGREES F. COMLY SOILS MAY BE SUSCEPTIBLE TO CUT BANKS AND CAVE I CORROSIVE TO STEEL AND CONCRETE DROUGHTY, AND FASILY FRODIBLE. THESE SOILS MAY ALSO BE

DUFFIELD SOILS - THE DUFFIELD SERIES CONSISTS OF DEEP AND VERY DEEP, WELL DRAINED SOILS FORMED IN RESIDUUM FROM LIMESTONE BEDROCK. SLOPES RANGE FROM 0 TO 35 PERCENT. PERMEABILITY IS MODERATE. MEAN ANNUAL PRECIPITATION IS 40 INCHES. MEAN ANNUAL TEMPERATURE IS 53 DEGREES F. DUFFIELD SOILS ARE SUSCEPTIBLE TO CUTBANKS AND CAVE INS AND MAY BE CORROSIVE TO STEEL AND CONCRETE. THIS SOIL MAY ALSO BE EASILY ERODIBLE AND SUBJECT TO HYDRIC INCLUSIONS. LOW STRENGTH, SLOW PERCOLATION PIPING, AND A POOR SOURCE OF TOPSOIL. THIS SOIL IS ALSO SUSCEPTIBLE TO SHRINK/SWELL AND HAS THE POTENTIAL FOR SINKHOLE FORMATION. THIS SOIL IS ALSO SUBJECT TO WETNESS BUT NOT PONDING. FROM 0 TO 8 PERCENT. SATURATED HYDRAULIC CONDUCTIVITY IS MODERATELY LOW TO MODERATELY HIGH MEAN ANNUAL PRECIPITATION IS ABOUT 40 INCHES. MEAN ANNUAL TEMPERATURE IS ABOUT 53 DEGREES I THORNDALE SOILS MAY BE SUSCEPTIBLE TO CUT BANKS AND CAVE INS. AND CORROSIVE TO CONCRETE AND THIS SOIL MAY ALSO BE SUBJECT TO SEASONAL HIGH-WATER TABLE, HYDRIC INCLUSIONS, LOW A STORMWATER MANAGEMENT CONTROL SYSTEM IS PROPOSED TO MINIMIZE THE ADDITIONAL RUNOFF VOLUME STRENGTH, SLOW PERCOLATION, PIPING, AND A POOR SOURCE OF TOPSOIL. THORNDALE SOILS MAY ALSO BE

- CUT-BANK CAVING: ALL APPLICABLE OSHA STANDARDS AND REGULATIONS SHALL BE IMPLEMENTED AT ALL TIMES DURING TRENCHING AND EXCAVATION OPERATIONS • CORROSION OF STEEL AND CONCRETE: ALL UNDERGROUND FOUNDATIONS AND STRUCTURES SHALL BE PROPERLY PROTECTED AGAINST CORROSION, WHICH MAY INCLUDE COATING THESE STRUCTURES WITH CORROSION-RESISTANT MATERIAL.
- EASILY ERODIBLE: EROSION AND SEDIMENT POLLUTION CONTROLS WILL BE IMPLEMENTED TO AVOID THE TRANSPORTATION OF SEDIMENT-LADEN WATER OFF-SITE. • DEPTH TO SATURATED ZONE/SEASONAL HIGH WATER TABLE: THE SITE MAY REQUIRE DEWATERING OF PITS
- THE GEOTECHNICAL REPORT DID IDENTIFY HIGH GROUNDWATER IN THE LOCATION OF BASIN 1. WHEN WATER SURFACE IS TYPICALLY BELOW THE FROST LINE. DEWATERING IS REQUIRED. A SUMP PIT AND FILTER BAG SHALL BE UTILIZED. AND WATER SHALL BE PUMPED TO AN UNDISTURBED AREA UPSTREAM OF A PERIMETER CONTROL BMP SUCH AS A FILTER SOCK. • HYDRIC SOILS/HYDRIC INCLUSIONS: A WETLAND FIELD SURVEY WAS CONDUCTED AND A PATCH OF WETLANDS WAS DELINEATED ALONG THE WESTERN PROPERTY LINE. THERE WILL BE NO DISTURBANCE T
- SAID WETLANDS. • LOW STRENGTH/LANDSLIDE PRONE: THE MAXIMUM PROPOSED SLOPE ON THE SITE IS 3:1. THIS WILL REDUCE THE POTENTIAL FOR EROSION AND LAND SLIDE ACTION. ALL PROPOSED BERMS SHALL COMPACTED FULLY IN ORDER TO PROTECT AGAINST LANDSLIDES, AND SHALL BE STABILIZED IMMEDIATELY. • SLOW PERCOLATION: ADEQUATE PRECAUTIONS WILL BE TAKEN TO ENSURE THAT THE PCSM BMPS INFILTRATE WITHIN THE REQUIRED TIME PERIOD. INCLUDING INFILTRATION TESTING AND SOIL
- MODIFICATION /UNDERDRAIN INSTALLATION IF NECESSARY INFILTRATION TESTS PREVIOUSLY PERFORMED INDICATED THAT THE INFILTRATION RATE AT THE SITE IS ADEQUATE IN THE PROPOSED INFILTRATION FACILITIES. AN MRC BASIN IS PROPOSED IN THE AREA WHERE LIMITING ZONES EXIST. • PIPING: ANTI-SEEP COLLARS WILL BE PROVIDED AS PART OF THE PCSM AND PIPELINE DESIGNS.
- POOR SOURCE OF TOPSOIL: THE ADEQUACY OF THE TOPSOIL WILL BE EVALUATED UPON THE COMMENCEMENT OF EXCAVATION. AS THE ENTIRE SITE IS AN AGRICULTURAL FIELD, THE TOPSOIL IS EXPECTED TO BE SUFFICIENT • FROST ACTION: THE PROJECT'S IMPERVIOUS SURFACES SHALL BE GRADED AT A MINIMUM OF 2% IN ONE
- DIRECTION, SO THAT WATER WILL NOT COLLECT ON THE SURFACE AND CAUSE DAMAGE DURING FREEZE/THAW CYCLES. CRACKS WHICH DEVELOP IN THE IMPERVIOUS SURFACES SHALL BE PROMPTLY SEALED • SHRINK/SWELL: ALL SITE GRADING SHALL DIRECT WATER AWAY FROM BUILDINGS AND OTHER IMPERVIOUS
- SURFACES TO REDUCE THE LIKELIHOOD OF WATER INFILTRATING NEAR OR UNDER THESE STRUCTURES. • SINKHOLE FORMATION: THE PA DEP'S EMAPPA DOES NOT IDENTIFY ANY KNOWN KARST FEATURES ON SITE. THE ENTIRE SITE IS UNDERLAIN BY THE HERSHEY AND MYERSTOWN FORMATIONS WHICH IS COMPRISED OF ARGILLACEOUS LIMESTONE AND LIMESTONE. LIMESTONE IS SUSCEPTIBLE TO KARST ACTIVITY. SHOULD A GEOTECHNICAL HAZARD BE ENCOUNTERED, THE COUNTY CONSERVATION DISTRICT WILL BE IMMEDIATELY CONTACTED, AND A CERTIFIED GEOTECHNICAL ADVISOR WILL BE REQUIRED TO OVERSEE MITIGATION OF THE
- WETNESS: THE SITE MAY REQUIRE DEWATERING OF PITS DURING CONSTRUCTION. I.E. WHEN POURING FOOTERS, DEWATERING BASINS, ETC. SHOULD DEWATERING BE REQUIRED, A SUMP PIT AND FILTER BAG SHALL BE UTILIZED, AND WATER SHALL BE PUMPED TO AN UNDISTURBED AREA UPSTREAM OF A PERIMETER CONTROL (FILTER SOCK).

GENERAL SOIL NOTES

HAZARDS

- BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL NEED TO HAVE APPROPRIATE E&S CONTROLS. 2. 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. MAINTENANCE SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- 3. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS. OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY THE RECOMMENDED MAINTENANCE EFFORTS:
- 5. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
- 6. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- 7. THE LOCAL CONSERVATION DISTRICT SHALL BE CONTACTED IF SEEPS OR SPRINGS ARE ENCOUNTERED AND THE DESIGNS ARE ALTERED DURING CONSTRUCTION AND THEY SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.

INFILTRATION TESTING HAS BEEN CONDUCTED AND HAS YIELDED FAVORABLE RESULTS IN THE PROPOSED INFILTRATION FACILITIES. HIGH GROUNDWATER WAS ENCOUNTERED IN THE VICINITY OF MRC BASIN 1. AS SUCH, THE BASIN WILL BE CONSTRUCTED WITH AN IMPERMEABLE LINER. PLEASE REFER TO THE GEOTECHNICAL REPORT FOUND IN APPENDIX D FOR FURTHER DISCUSSION AND RESULTS.

OWNERSHIP, OPERATIONS AND MAINTENANCE

SHORT-TERM OWNERSHIP, OPERATIONS AND MAINTENANCE OF THE PCSM BMPS IS THE RESPONSIBILITY OF THE LONG-TERM OWNERSHIP, OPERATIONS AND MAINTENANCE OF THE PCSM BMPS IS THE RESPONSIBILITY OF THE PROPERTY OWNER HEREIN IDENTIFIED AS INCH'S PROPERTIES, LLC

THE SITE DISCHARGES IN A SIMILAR MANNER TO ALL DISCHARGE POINTS AT A RATE THAT IS LESS THAN INDIVIDUAL BMP DESCRIPTION, CONSTRUCTION SEQUENCE, AND MAINTENANCE

GENERAL OVERALL BMP DESCRIPTION

TWO (2) STANDARD INFILTRATION BASINS AND ONE (1) MRC INFILTRATION BASIN WILL BE LOCATED ON SITE. NPDES PERMIT NOTES THE BOTTOMS WILL BE CONSTRUCTED WITH AN ENGINEERED SOIL MIXTURE TO ASSIST IN THE WATER QUALIT HE FOLLOWING SOILS ARE FOUND WITHIN OR ADJACENT TO THE AREA TO BE DISTURBED BY EARTH MOVING BENEFITS OF FILTRATION AS WELL AS TO PROMOTE VEGETATION GROWTH AND INFILTRATION. FACILITIES WILL BE EROSION CONTROLS SUCH AS FILTER SOCK, SLOPE AND SWALE MATTING, RIPRAP OUTLET PROTECTION, INLET PROMOTE POLLUTANT REMOVAL. THE PRIMARY FUNCTION OF THE BMP IS TO MANAGE STORMWATER RUNOFF VOLUME AND CONTROL THE PEAK RATE LEAVING THE SITE. PLEASE SEE THE PCSM PLAN AND REPORT FOR DETAILS, SPECIFICATIONS AND CALCULATIONS.

CONSTRUCTION SEQUENCE

- 1. PROTECT INFILTRATION BASIN AREA FROM COMPACTION PRIOR TO INSTALLATION.
- 2. IF POSSIBLE, INSTALL INFILTRATION BASIN DURING THE LATER PHASES OF SITE CONSTRUCTION TO PREVENT SEDIMENTATION AND/OR DAMAGE FROM CONSTRUCTION ACTIVITY. AFTER INSTALLATION, PREVENT
- SEDIMENT LADEN WATER FROM ENTERING INLETS AND PIPES. 3. INSTALL AND MAINTAIN PROPER EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION.
- 4. IF NECESSARY, EXCAVATE INFILTRATION BASIN BOTTOM TO AN UNCOMPACTED SUBGRADE FREE FROM ROCK AND DEBRIS. DO NOT COMPACT SUBGRADE.
- 5. INSTALL OUTLET CONTROL STRUCTURES.
- 6. SEED AND STABILIZE TOPSOIL. (VEGETATE IF APPROPRIATE WITH NATIVE PLANTINGS) 7. DO NOT REMOVE INLET PROTECTION OR OTHER EROSION AND SEDIMENT CONTROL MEASURES UNTIL SITE IS
- FULLY STABILIZED.

MAINTENANC 1. WHILE VEGETATION IS BEING ESTABLISHED, PRUNING AND WEEDING MAY BE REQUIRED.

- THE END OF THE GROWING SEASON. 3. AREAS SHOULD BE INSPECTED AT LEAST TWO TIMES PER YEAR FOR SEDIMENT BUILDUP, EROSION O OUTLET PIPE, ANTI-SEEP COLLAR, CLAY CORE INSTALLATION
- VEGETATIVE CONDITIONS ETC.

- 1. CATCH BASINS AND INLETS (UPGRADIENT OF INFILTRATION FACILITY) SHOULD BE INSPECTED AND CLEANED O STONE BACKFILL AT LEAST TWO TIMES PER YEAR AND AFTER MAJOR RUNOFF EVENTS (> 1-INCH RAINFALL DEPTH).
- THE VEGETATION ALONG THE SURFACE OF THE INFILTRATION FACILITY SHALL BE MAINTAINED IN GOOD. CONDITION, AND ANY BARE SPOTS SHALL BE RE-VEGETATED AS SOON AS POSSIBLE.
- 3. VEHICLES SHOULD NOT BE PARKED OR DRIVEN OVER AN INFILTRATION AREA, AND CARE SHOULD BE THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIAL TAKEN TO AVOID EXCESSIVE COMPACTION BY MOWERS.
- HOURS. MOSQUITO'S SHOULD NOT BE A PROBLEM IF THE WATER DRAINS IN 72 HOURS. MOSQUITOES THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WAST REQUIRE A CONSIDERABLY LONG BREEDING PERIOD WITH RELATIVELY STATIC WATER LEVELS.
- CONTROL MEASURES, SIGNS OF WATER CONTAMINATION/SPILLS, AND SLOPE STABILITY IN THE BERMS. 6. THE SEED MIXTURE PLANTED IN THE BOTTOM OF THE BASINS SHALL BE MOWED DOWN TO A HEIGHT OF • SEDIMENT DEPOSITED AND ACCUMULATED IN PCSM BMPS SHALL BE REMOVED FROM 8-INCHES WHEN IT REACHES A HEIGHT OF 24-INCHES DURING THE FIRST FULL GROWING SEASON ONLY. IN ALL SUBSEQUENT YEARS, ANY MATERIAL STILL STANDING FROM THE PREVIOUS GROWING SEASON SHALL BE • CUTTINGS AND TRIMMINGS FROM PCSM BMPS SHALL BE DISPOSED OF IN A LOCAL COMPOSTIN MOWED IN EARLY SPRING TO A HEIGHT OF 2-INCHES PRIOR TO THE CURRENT YEAR'S GROWTH REACHING • LITTER CLEANED FROM PCSM BMPS SHALL BE DISPOSED OF IN A TRASH RECEPTACLE FOR A HEIGHT OF 2-INCHES. THE SEED MIXTURE SHALL NOT BE MOWED AGAIN UNTIL THE FOLLOWING SPRING. IN ALL INSTANCES, CLIPPINGS SHALL BE COMPOSTED OR TAKEN TO AN APPROVED YARD WASTE STAGING OF EARTHMOVING RECYCLING FACILITY.
- 7. REMOVE ACCUMULATED SEDIMENT FROM BASIN AS REQUIRED. RESTORE ORIGINAL CROSS SECTION AND EARTHMOVING ACTIVITIES. EACH STAGE SHALL BE COMPLETED BEFORE A SUBSEQUENT STAGE IS INFILTRATION RATE.
- 8. SHOULD ANY INFILTRATION BASIN FAIL TO DEWATER WITHIN A 72-HOUR TIME PERIOD THE OWNER SHALL INVESTIGATE ALTERNATIVE SOLUTIONS. ALTERNATIVES INCLUDE:
- REPLACE THE ENGINEERED SOIL LAYER AND / OR THE UNDERDRAIN SYSTEM. THE ENGINEERED SOIL LAYER APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE THE POTENTIAL FOR ACCELERA SHOULD BE REMOVED. THE SOIL LAYER AT THE BOTTOM OF THE ENGINEERED SOIL SHALL BE SCARIFIED. AND/OR SEDIMENT POLLUTION. SHOULD ANY SINKHOLES OR GROUNDWATER SOURCES BE ENCOUN THE ENGINEERED SOIL LAYER SHALL BE REPLACED PER THE PCSM PLAN SPECIFICATIONS. - CONDUCT AN INVESTIGATION BY A QUALIFIED INDIVIDUAL IN ORDER TO DETERMINE THE CAUSE OF FAILURE OF SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP, SUCH AS A P THE ENGINEERED SOIL LAYER SHALL BE REPLACED PER THE PCSM PLAN SPECIFICATIONS. AND MAKE A DETERMINATION AS TO THE BEST COURSE OF ACTION AS TO RETURN THE SITE TO THE FILTER BAG OR EQUIVALENT SEDIMENT REMOVAL FACILITY, OVER UNDISTURBED VEGETATED AREAS STANDARDS OF THE LOCAL MUNICIPAL AUTHORITY AND THE PA DEP.

BMP 6.4.3: SUBSURFACE INFILTRATION BED

A SUBSURFACE INFILTRATION BED GENERALLY CONSISTS OF A STORMWATER DISTRIBUTION SYSTEM UNDERLAIN BY A UNIFORMLY GRADED AGGREGATE BED FOR TEMPORARY STORAGE OF STORMWATER RUNOFF. THE STORAGE MEDIA FOR SUBSURFACE BEDS TYPICALLY CONSIST OF CLEAN-WASHED, UNIFORMLY GRADED AGGREGATE OR PROPRIETARY CHAMBERS WHEN DESIGNED CONSTRUCTED AND MAINTAINED PER THE BMP MANUAL GUIDELINES DURING CONSTRUCTION, I.E. WHEN POURING FOOTERS, EXCAVATING TRENCHES, DEWATERING BASINS, ETC. WATER QUALITY PRACTICES. THEY HAVE THE ADDED BENEFIT OF FUNCTIONING YEAR-ROUND, GIVEN THAT THE SUBSURFACE INFILTRATION FEATURES CAN STAND-ALONE AS A SIGNIFICANT STORMWATER RUNOFF RATE AND

> SUBSURFACE INFILTRATION BED 1 IS LOCATED BENEATH THE PROPOSED PARKING LOT AND WILL TREAT RUNOFF FROM A PORTION OF THE MAJORITY OF THE PROPOSED BUILDING AND PARKING AREA. THE PRIMARY FUNCTION OF THIS RMP IS TO MANAGE THE STORMWATER RUNOFF RATE AND VOLUME PRIOR TO LEAVING THE SITE PLEASE SEE THE PCSM PLAN AND REPORT FOR DETAILS, SPECIFICATIONS AND CALCULATIONS.

CONSTRUCTION SEQUENCE

- 1. DUE TO THE NATURE OF CONSTRUCTION SITES, SUBSURFACE FACILITIES SHOULD BE INSTALLED TOWARD 3. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE THE END OF THE CONSTRUCTION PERIOD, IF POSSIBLE. (SUBSURFACE BEDS MAY BE USED AS TEMPORARY SEDIMENT BASINS OR TRAPS AS DISCUSSED ABOVE).
- 2. INSTALL AND MAINTAIN ADEQUATE EROSION AND SEDIMENT CONTROL MEASURES (AS PER THE PENNSYLVANIA EROSION AND SEDIMENTATION CONTROL PROGRAM MANUAL) DURING CONSTRUCTION. 3. ALL BED BOTTOMS SHOULD BE AT LEVEL GRADE.
- 4. INSTALL UPSTREAM AND DOWNSTREAM CONTROL STRUCTURES, CLEANOUTS, PERFORATED PIPING, AND ALL OTHER NECESSARY STORMWATER STRUCTURES.
- 5. IMPERVIOUS LINERS, GEOTEXTILE, AND BED AGGREGATE SHOULD BE PLACED IMMEDIATELY AFTER APPROVAL OF SUBGRADE PREPARATION AND INSTALLATION OF STRUCTURES. GEOTEXTILE SHOULD BE PLACED IN 6. LOCATE, STAKE, AND FLAG AREAS MARKED AS PCSM BMP'S (I.E. MRC BASIN 1, INFILTRATION ACCORDANCE WITH MANUFACTURER'S STANDARDS AND RECOMMENDATIONS. ADJACENT STRIPS OF GEOTEXTILE SHOULD OVERLAP A MINIMUM OF 16 INCHES. IT SHOULD ALSO BE SECURED AT LEAST 4 FEET OUTSIDE OF BED IN ORDER TO PREVENT ANY RUNOFF OR SEDIMENT FROM ENTERING THE STORAGE BED. THIS EDGE STRIP SHOULD REMAIN IN PLACE UNTIL ALL BARE SOLLS CONTIGUOUS TO BEDS ARE STABILIZED AND VEGETATED. AS THE SITE IS FULLY STABILIZED, EXCESS GEOTEXTILE ALONG BED EDGES CAN BE CUT BACK TO THE EDGE OF THE BED.
- 6. CLEAN-WASHED, UNIFORMLY GRADED AGGREGATE SHOULD BE PLACED IN THE BED IN MAXIMUM 8-INCH LIFTS. EACH LAYER SHOULD BE LIGHTLY COMPACTED, WITH CONSTRUCTION EQUIPMENT KEPT OFF THE BED BOTTOM AS MUCH AS POSSIBLE.
- 7. APPROVED SOIL MEDIA OR AGGREGATE SHOULD BE PLACED OVER SUBSURFACE BED IN MAXIMUM 6-INCH LIFTS.
- 8. SEED AND STABILIZE TOPSOIL. 9. DO NOT REMOVE INLET PROTECTION OR OTHER EROSION AND SEDIMENT CONTROL MEASURES UNTIL SITE IS FULLY STABILIZED.

SUBSURFACE DETENTION IS GENERALLY LESS MAINTENANCE INTENSIVE THAN OTHER PRACTICES OF ITS TYPE MAINTENANCE ACTIVITIES REQUIRED FOR THE SUBSURFACE BED ARE SIMILAR TO THOSE OF ANY STORM SEWER 4. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR CONVEYANCE SYSTEM AND FOCUS ON REGULAR SEDIMENT AND DEBRIS REMOVAL. THE FOLLOWING REPRESENTS

- THE SUBSURFACE FACILITY SHALL BE INSPECTED AT LEAST 2 TIMES PER YEAR TO ENSURE THAT THE FACILITY CONTINUES TO DEWATER WITHIN 72 HOURS AFTER A RAINFALL EVENT
- SHOULD THE SUBSURFACE DETENTION FACILITY FAIL TO DEWATER WITHIN 72 HOURS, A LICENSED PROFESSIONAL KNOWLEDGEABLE IN STORMWATER MANAGEMENT PRACTICES SHALL BE CONTACTED TO PROVIDE POTENTIAL REASONS FOR FAILURE AND A PLAN OF ACTION TO REPAIR THE PCSM BMPS TO WORKING CONDITION
- ALL INLETS TO THE SYSTEM SHOULD BE INSPECTED AND CLEANED OUT ANNUALLY. WRITTEN REPORTS DOCUMENTING ALL INSPECTIONS, REPAIRS, AND MAINTENANCE ACTIVITIES SHALL BE MAINTAINED ON SITE BY THE PROPERTY OWNER AT ALL TIMES.
- OVERALL PCSM CONSTRUCTION SEQUENCE 1. AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE OF THE COUNTY CONSERVATION DISTRICT TO AN ON-SITE PRE-CONSTRUCTION MEETING.
- 2. UPON INSTALLATION OF PERIMETER E&S CONTROLS (SEE CONSTRUCTION SEQUENCE), INSTALL SEDIMENT BASINS 1-3 AND SWALES 1-3.
- 3. AFTER ROUGH GRADING AND UTILITY INSTALLATIONS, INSTALL SUBSURFACE INFILTRATION BEDS 1-2. 4. AFTER THE BUILDINGS AND ROAD ARE CONSTRUCTED ADD TOPSOIL TO THE POST-CONSTRUCTION
- PERVIOUS AREAS TO BE PERMANENTLY STABILIZED 5. AFTER STABILIZATION OF THE SITE AREA, CONVERT SEDIMENT BASINS 1-3 TO PERMANENT STORMWATER BASINS 1-3 AS SEEN ON THE PCSM PLAN. CARE SHOULD BE TAKEN TO MINIMIZE SOIL COMPACTION IN THESE AREAS BEFORE AND AFTER CONSTRUCTION. SUCCESS HAS BEEN ACHIEVED WITH MINIMAL
- COMPACTION UTILIZING A "ROCK SLINGER". 6. APPLY THE SPECIFIED PERMANENT STABILIZATION ACROSS THE SITE.
- 1. PERMITTEE'S REQUESTING A RENEWAL OF COVERAGE UNDER GENERAL PERMIT MUST SUBMIT TO THE COUNTY CONSERVATION DISTRICT AN ADMINISTRATIVELY COMPLETE AND ACCEPTABLE NOI, AT LEAST 90 DAYS PRIOR TO THE EXPIRATION DATE OF THE COVERAGE.
- 2. PERMITTEE'S REQUESTING A RENEWAL OF COVERAGE UNDER INDIVIDUAL PERMIT MUST SUBMIT TO THE COUNTY CONSERVATION DISTRICT AN ADMINISTRATIVELY COMPLETE AND ACCEPTABLE NOI, AT LEAST 180 DAYS PRIOR TO THE EXPIRATION DATE OF THE COVERAGE.
- 3. ALL EARTHMOVING CONTRACTORS MUST BE ADDED AS CO-PERMITTEES TO THE NPDES PERMIT. 4. SITE INSPECTIONS AND MONITORING REPORTS - THE PERMITTEE AND CO-PERMITTEE(S) SHALL COMPLY
- WITH ALL OF THE MONITORING AND REPORTING REQUIREMENTS, AS OUTLINED IN PART A.2 OF THE NPDES PERMIT. THE PERMITTEE AND CO-PERMITTEE(S) SHALL ENSURE THAT SITE INSPECTIONS ARE CONDUCTED AT LEAST WEEKLY AND AFTER EACH MEASURABLE PRECIPITATION EVENT BY QUALIFIED PERSONNEL. A WRITTEN REPORT SHALL BE KEPT FOR EACH INSPECTION IN ACCORDANCE WITH THE REQUIREMENTS OF PART A.2.A.
- 5. THE DEP "VISUAL INSPECTION CHECKLIST" SHOULD BE COMPLETED FOR EACH INSPECTION AND SHOULD BE AVAILABLE ON-SITE FOR INSPECTION BY DEP OR COUNTY CONSERVATION DISTRICT PERSONNEL. 6. AFTER ALL EARTHMOVING ACTIVITY HAS CEASED AND THE ENTIRE PERMITTED AREA IS PERMANENTLY
- STABILIZED, THE PERMITTEE MUST SUBMIT A NOTICE OF TERMINATION TO THE LOCAL COUNTY CONSERVATION DISTRICT TO CLOSE OUT THE PERMIT. ALLOWING THE NPDES PERMIT TO EXPIRE IS DETERMINED TO BE A VIOLATION OF THE NPDES PERMIT. BMP CRITICAL STAGES

PER REQUIREMENTS OF THE PA DEP A LICENSED PROFESSIONAL OR DESIGNEE MUST BE PRESENT FOR THE INSTALLATION OF ALL BMP AND STORMWATER CONTROLS. PLEASE CONTACT THE DESIGN PROFESSIONAL OR ENSURE A LICENSED PROFESSIONAL IS PRESENT BEFORE BEGINNING THE FOLLOWING CONSTRUCTION ACTIVITIES:

- MRC BASIN 1 / INFILTRATION BASINS 2-3
- O EXCAVATION / ROUGH GRADING
- O UNDERDRAIN AND AMENDED SOILS INSTALLATION

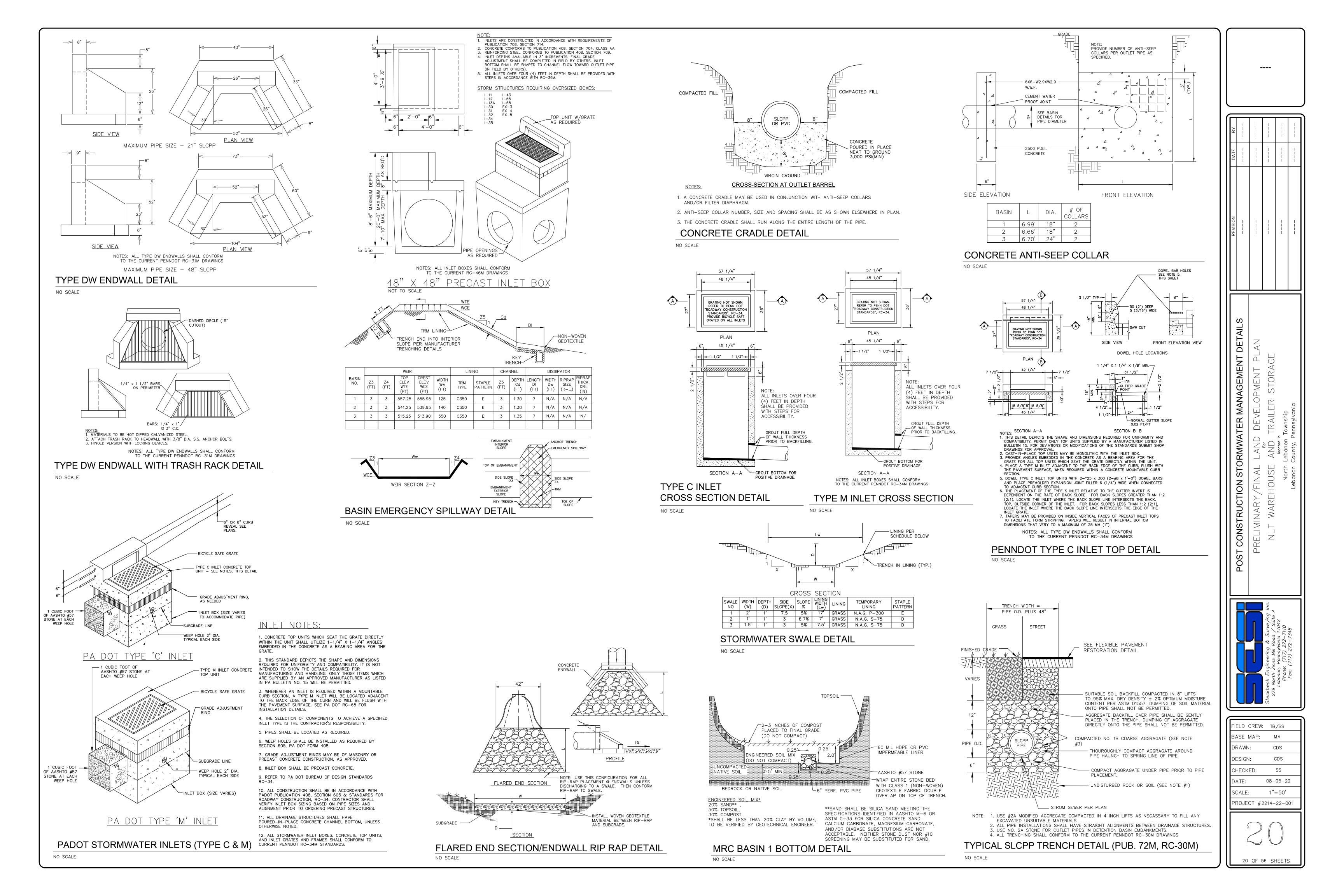
- SUBSURFACE INFILTRATION BEDS 1-2
- O EXCAVATION TO BED SUBGRADE GEOTEXTILE INSTALLATION
- OUTLET STRUCTURE AND DISTRIBUTION PIPING INSTALLATION
- PERMANENT SITE STABILIZATION

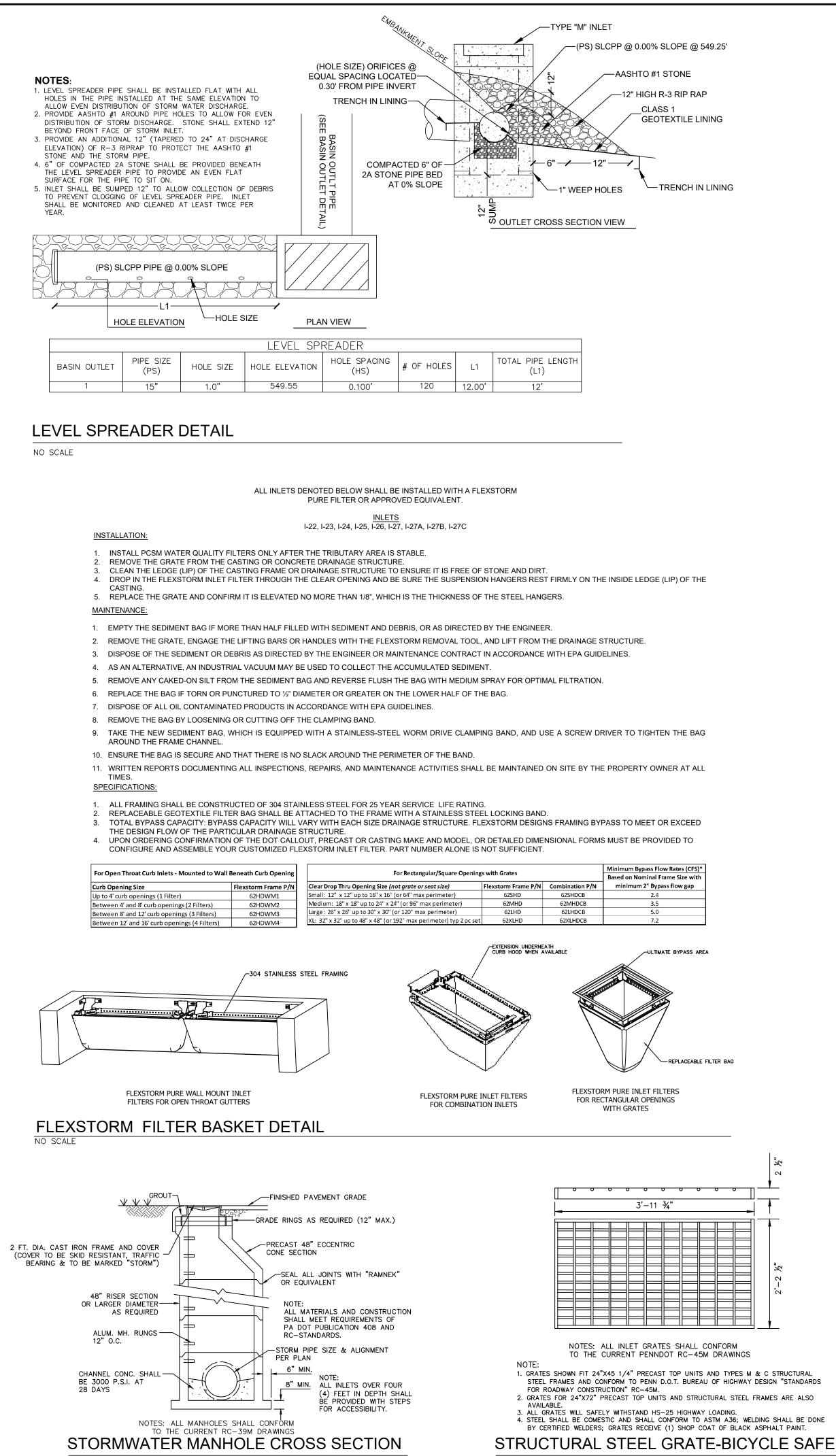
OR OFF THE SITE. THESE BUILDING WASTES INCLUDE, BUT ARE NOT LIMITED TO EXCESS SOIL MA BUILDING MATERIALS. CONCRETE WASH WATER. SANITARY WASTES. EXISTING ON-SITE REFUSE. E 4. INSPECT THE FACILITY AFTER RUNOFF EVENTS AND MAKE SURE THAT RUNOFF DRAINS DOWN WITHIN 72 COULD ADVERSELY IMPACT WATER QUALITY. ALL BUILDING MATERIALS AND WASTES SHALL BE RE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1., AND 287.1 ET SEQ. NO BUIL MATERIALS OR WASTES SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE. 5. ALSO INSPECT FOR ACCUMULATION OF SEDIMENT, DAMAGE TO OUTLET CONTROL STRUCTURES, EROSION WASTE MATERIALS WITH OR FROM THE POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) MANAGEMENT PRACTICES (BMPS):

- DISPOSED OF PROPERLY.
- THE LOCAL REFUSE HAULER.

- 1. AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING GRUBBING. THE CONTRACTOR SHALL INVITE ALL SUB-CONTRACTORS. THE LANDOWNER. ALL MUNICIPAL OFFICIALS. THE CIVIL ENGINEER, AND A REPRESENTATIVE OF THE LOCAL COUNTY DISTRICT TO AN ON-SITE PRE-CONSTRUCTION MEETING. PERIMETER E&S CONTROLS MAY PRIOR TO THE PRE-CONSTRUCTION MEETING.
- 2. AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACT IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INCOR 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FRO CONSERVATION DISTRICT OR BY DEP PRIOR TO IMPLEMENTATION.
- 4. INSTALL EXTENDED ROCK CONSTRUCTION ENTRANCES AS SHOWN ON THE ATTACHED PLAN.
- 5. THE LIMITS OF DISTURBANCE (LOD) SHOULD BE MARKED PRIOR TO DISTURBANCE ACTIVITIES STAKES, POSTS & ROPE, CONSTRUCTION FENCE, ETC.)
- 3, SUBSURFACE INFILTRATION BEDS 1 & 2). REFER TO PCSM PLAN FOR ADDITIONAL INFO LOCATION OF PCSM BMP'S. THESE AREAS SHOULD NOT BE COMPACTED DURING CONS CONSTRUCTION TRAFFIC SHALL OCCUR IN THESE AREAS EXCEPT AS NEC EXCAVATION/GRADING.
- 7. INSTALL PERIMETER SILT SOCK ON THE SITE AT LOCATIONS 1-28 AS INDICATED ON THE AT SILT SOCK IS TO BE INSTALLED ALONG THE CONTOUR WHERE POSSIBLE, AT A LEVEL GRA SOCK SHOULD BE POSITIONED IN SUCH A WAY AS TO PREVENT ANY SEDIMENT FROM LEA SEDIMENT ACCUMULATING TO HALF THE HEIGHT OF THE SILT SOCK SHALL BE REMOVED RESTORE THE SEDIMENT STORAGE CAPACITY OF THESE AREAS IN THE CASE OF A FAILURI SOCK DUE TO HIGH FLOWS, A NEW SECTION OF SILT SOCK SHALL BE INSTALLED ACROS PORTION OF THE SILT SOCK. AT NO POINT SHALL UN-STABILIZED AREA DRAIN OFFSITE U THE SILT SOCK IN LOCATIONS 29-31 IS TO ENSURE SEDIMENTATION OF THE ENGINEERED SC OCCUR AND SHOULD BE INSTALLED DURING CONVERSION OF THE SEDIMENT BASINS.
- 8. INSTALL INLET PROTECTION AT THE EXISTING INLETS ALONG SR 0422. INSTALL ROCK FILTER 2 AT THE SOUTHWEST CORNER OF THE SITE
- 9. PER NPDES REQUIREMENTS, "UPON THE INSTALLATION OR STABILIZATION OF ALL PERIME" CONTROL BMPS AND AT LEAST 3 DAYS PRIOR TO PROCEEDING WITH THE BULK EARTH ACTIVITIES, THE PERMITTEE OR CO-PERMITTEE SHALL PROVIDE NOTIFICATION TO THE DEF AUTHORIZED CONSERVATION DISTRICT."
- 10. INSTALL SEDIMENT BASINS 1, 2, AND 3 WHICH WILL SERVE AS SEDIMENT BASINS DURING AND BE CONVERTED TO PERMANENT STORMWATER BASINS UPON TRIBUTARY STABILIZATION. THE MINIMUM AREA NECESSARY TO INSTALL EACH SEDIMENT BASIN. THE SEDIMENT BAS CONSTRUCTED PRIOR TO ANY MAJOR FARTH DISTURBANCE. STRIPPING, OR CLEARING, EXCAN SEDIMENT BASINS SHALL ONLY BE TO THE ELEVATION IDENTIFIED ON THE PLAN. DO NOT FOR AMENDED SOILS AT THIS TIME. INSTALL THE OUTLET PIPE(S) FROM EACH BASIN ALC ASSOCIATED OUTLET STRUCTURE(S). CONSTRUCT IMPERVIOUS CLAY CORES, ANTI-SEEP BACKFILL EMBANKMENTS, COMPACTING TO 95% MAX DRY DENSITY. INSTALL NORTH AMERICAN SLOPE PROTECTION AT EMERGENCY SPILLWAYS, INSTALL TYPE 'DW' END WALLS AND LEVEL APPLICABLE AT BASIN OUTLETS. INSTALL RIPRAP OUTLET PROTECTION AT THE BASIN O SPECIFIED. INSTALL SEED IN THE INTERIOR SLOPES AND BERMS OF BASIN. INSTALL CLEAN BASIN BAFFLES, AND SKIMMERS WITHIN EACH SEDIMENT BASIN. PLEASE REFER TO THE E&S ADDITIONAL DETAIL. A LICENSED PROFESSIONAL OR DESIGNEE SHALL BE PRESENT C SEDIMENT BASIN EXCAVATION AND INSTALLATION OF THE OUTLET PIPES, ANTI-SEEP COLLAF CORES
- 11. INSTALL SWALES 1 THROUGH 3 WHICH ARE TRIBUTARY TO THE SEDIMENT BASINS AT THIS EROSION CONTROL LINING IS INSTALLED IN ACCORDANCE WITH THE PLAN DETAILS. INSTAL SEWER PIPING FROM 1-3 TO EW-2.
- 12. IF SOIL IS TAKEN TO OR BORROWED FROM ANOTHER CONSTRUCTION SITE, SAID SITE MU APPROVED E&SPC PLAN. SEE THE "SOIL LIMITATIONS AND RESOLUTIONS" SECTION OF THIS E FURTHER INFORMATION.
- 13. CLEAR AND STRIP TOPSOIL ACROSS THE AREA OF PROPOSED DISTURBANCE AND PLACE OF STOCKPILE AS SHOWN ON THE ATTACHED PLAN AND IN ACCORDANCE WITH PLAN DETAILS. SOCK BELOW EACH TOPSOIL STOCKPILE AS SHOWN ON THE ATTACHED PLAN. STOCKE RELOCATED AS REQUIRED DURING CONSTRUCTION TO BRING A SECTION OF THE SITE UP TO SILT SOCK SHALL BE INSTALLED BELOW EACH STOCKPILE. THE COUNTY CONSERVATION DIS BE NOTIFIED PRIOR TO THE RELOCATION OF ANY STOCKPILES.
- 14. ROUGH GRADE THE DISTURBED AREA TO CONSTRUCT THE BUILDING, ACCESS DRIVES, AREAS.
- 15. INSTALL WATER, SANITARY SEWER, STORM SEWER, AND ALL OTHER UTILITIES AT THIS TIME FOLLOWING STORM EVENTS PROVIDE A MEANS TO DEWATER PITS AND UTILITY TRENCHES. SP FROM EXCAVATION OF THE TRENCHES SHALL BE PLACED ON THE UP-SLOPE SIDE OF THE LENGTH OF OPEN TRENCH SHALL BE LIMITED TO THAT WHICH WILL BE BACKFILLED THE SA ANY AFFECTED BMP'S SHALL BE IMMEDIATELY STABILIZED AND REPAIRED. THE TOPSOIL EXC THE TRENCH SHALL BE CAREFULLY REMOVED AND STOCKPILED SEPARATELY FROM THE TOPSOIL SHALL BE RESTORED TO THE GRADED AREAS TO PRE-CONSTRUCTION COND PUMPED FROM PITS AND TRENCHES SHALL BE FILTERED BY MEANS OF A FILTER BAG. AFTER TRENCHES HAVE BEEN BACKFILLED, FINE-GRADE AREA. ENSURE INLET PROTECTION FOR ALL STORM INLETS.
- 16. AT THIS TIME, EXCAVATE AS REQUIRED TO INSTALL SUBSURFACE INFILTRATION BEDS 1 GEOTEXTILE, DISTRIBUTION PIPING SYSTEM, AND OUTLET STRUCTURES WITHIN EACH BED. PER PLAN DETAILS. A LICENSED PROFESSIONAL OR DESIGNEE SHALL BE PRESENT C SUBSURFACE INFILTRATION BED EXCAVATION AND INSTALLATION OF THE GEOTEXTILE, DISTRIE OUTLET STRUCTURE, AND BACKFILL.

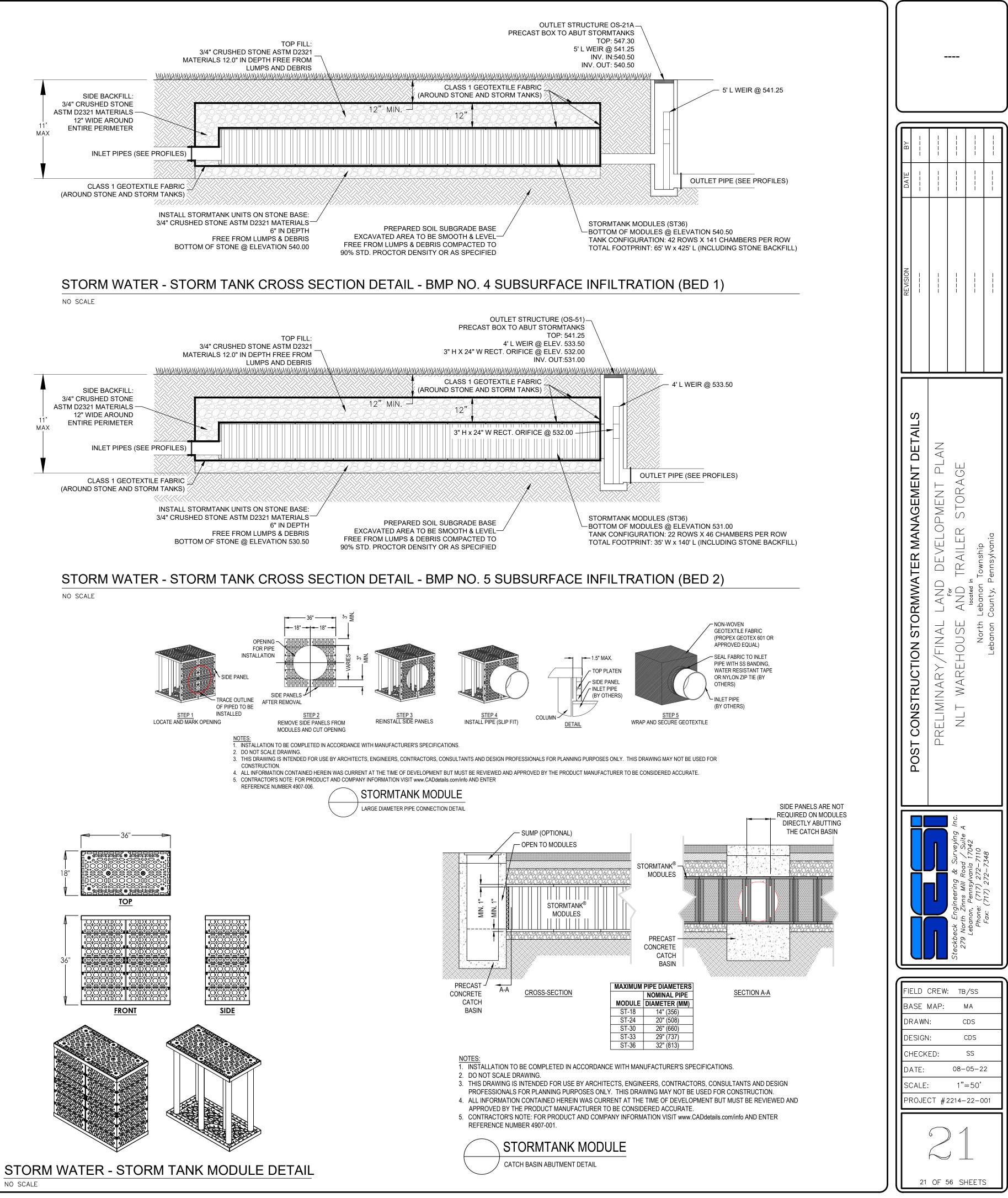
SUBSURFACE INFILTRATION BEDS 1–2 O EXCAVATION TO BED SUBGRADE GEOTEXTILE INSTALLATION	WATER CONNECTIONS, ETC.) IMMEDIATELY UPON COMPLETION OF EARTH DISTURBANCE ACTIVITIES FINAL GRADE AND STABILIZE THE LOT.	
 OUTLET STRUCTURE AND DISTRIBUTION PIPING INSTALLATION STONE BACKFILL PERMANENT SITE STABILIZATION PROJECT WASTES NOTES THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES ON 	20. FINE GRADE ANY REMAINING AREAS AS SHOWN ON THE GRADING PLAN. DURING THIS TIME, FRAME EARTH MOVING EQUIPMENT WILL BE EMPLOYED TO REMOVE TOPSOIL AND EXCESS 'FILL' MATERIAL, IF ANY EXISTS. SPREAD A MINIMUM OF 4-8 INCHES OF TOPSOIL ON FRESHLY GRADED AREAS; REFER TO THE TOPSOIL APPLICATION NOTES ON THE PLAN. FINAL PASSES DURING FINE GRADING SHALL BE MADE AT RIGHT ANGLES TO THE SLOPES. PREPARE THE REMAINDER OF THE DISTURBED AREA FOR PERMANENT STABILIZATION. SEEDBED SHALL BE PREPARED IN ACCORDANCE WITH ACCEPTED PRACTICES. EACH SEED MIXTURE SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RATES AND INSTRUCTIONS.	
OR OFF THE SITE. THESE BUILDING WASTES INCLUDE, BUT ARE NOT LIMITED TO EXCESS SOIL MATERIALS, BUILDING MATERIALS, CONCRETE WASH WATER, SANITARY WASTES, EXISTING ON-SITE REFUSE, ETC. THAT COULD ADVERSELY IMPACT WATER QUALITY. 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 SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE. WASTE MATERIALS WITH OR FROM THE POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) BEST MANAGEMENT PRACTICES (BMPS): • SEDIMENT DEPOSITED AND ACCUMULATED IN PCSM BMPS SHALL BE REMOVED FROM THE BMP AND	21. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE SPECIFIED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE STABILIZATION SPECIFICATIONS. DISTURBED AREAS WHICH ARE AT FINAL GRADE OR WHICH WILL NOT BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION SPECIFICATIONS.	
 SUBJICATE DEFOSITED AND ACCOMPLATED IN FOSM BMPS SHALL BE REMOVED FROM THE BMP AND DISPOSED OF PROPERLY. CUTTINGS AND TRIMMINGS FROM PCSM BMPS SHALL BE DISPOSED OF IN A LOCAL COMPOSTING FACILITY. LITTER CLEANED FROM PCSM BMPS SHALL BE DISPOSED OF IN A TRASH RECEPTACLE FOR PICK UP BY THE LOCAL REFUSE HAULER. STAGING OF EARTHMOVING ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING STAGING OF EARTHMOVING ACTIVITIES. EACH STAGE SHALL BE COMPLETED BEFORE A SUBSEQUENT STAGE IS INITIATED. 	22. PAVE THE ACCESS DRIVES AND PARKING AREAS. DO NOT INSTALL SURFACE (WEARING) COURSE UNTIL THE AREA IS STABILIZED (DEFINED AS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER, WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION AND SEDIMENTATION IN ALL AREAS TRIBUTARY TO THE CONTROLS). IF EARTHMOVING ACTIVITIES CEASE FOR FOUR (4) DAYS OR MORE TEMPORARY STABILIZATION SHALL BE APPLIED. SEE "STABILIZATION SPECIFICATIONS" IN THE E&S PLAN FOR FURTHER DETAILS.	DATE DATE
CONSTRUCTION OF THE SITE IMPROVEMENTS IS EXPECTED TO BEGIN IN THE SPRING OF 2023. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. CONSTRUCTION WILL PROCEED IN A TIMELY MANNER IN ORDER TO LIMIT THE POTENTIAL FOR ACCELERATED EROSION AND SEDIMENTATION. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION. SHOULD ANY SINKHOLES OR GROUNDWATER SOURCES BE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE GEOTECHNICAL ENGINEER IMMEDIATELY. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP, SUCH AS A PUMPED WATER FILTER BAG OR EQUIVALENT SEDIMENT REMOVAL FACILITY, OVER UNDISTURBED VEGETATED AREAS. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED AND IMMEDIATELY STABILIZED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING, GRUBBING AND TOPSOIL STRIPPING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE. ANY DEVIATION FROM THE FOLLOWING SEQUENCE MUST BE APPROVED IN WITING FROM THE COUNTY	 23. ALL SEDIMENT DEPOSITED WITHIN STORM SEWER CONVEYANCE PIPES SHALL BE REMOVED PRIOR TO COMPLETION OF THE PROJECT AND PRIOR TO CONVERSION OF THE SEDIMENT BASINS TO PERMANENT STORMWATER BASINS. ANY WATER PUMPED FROM A BASIN OR OTHER AREA OF THE SITE SHALL BE PUMPED THROUGH A FILTER BAG AND THE COLLECTED SEDIMENT SHALL BE DISPOSED OF PROPERLY. ALL AREAS DISTURBED DURING THIS PROCESS SHALL BE STABILIZED IMMEDIATELY THROUGH SEEDING AND MULCHING. THE COUNTY CONSERVATION DISTRICT SHOULD BE CONTACTED PRIOR TO CONVERSION OR REMOVAL OF ANY E&S BMPS AND MAY REQUIRE A SITE INSPECTION. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROLS ONCE THE SITE IS COMPLETELY STABILIZED (DEFINED AS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER, WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION AND SEDIMENTATION IN ALL AREAS TRIBUTARY TO THE CONTROLS) WITH APPROVAL OF THE COUNTY CONSERVATION DISTRICT. 24. UPON STABILIZATION OF ALL DISTURBED AREAS MODIFY SEDIMENT BASINS 1, 2, AND 3 AS REQUIRED TO 	REVISION
CONSERVATION DISTRICT.	INSTALL INFILTRATION BASINS 2 & 3 AND MRC BASIN 1 AS SHOWN ON THE PCSM PLAN. THE BASINS SHALL BE OVER-EXCAVATED AND SCARIFIED IN ACCORDANCE WITH THE PLAN DETAIL. THE EXCAVATOR SHOULD AVOID EXCAVATING TO THE FINAL DESIGN INVERT UNTIL THE ENGINEERED SOIL MIX IS READY TO BE PLACED. THIS WILL MINIMIZE THE EXPOSURE OF SUBGRADE SOIL AND AID IN REDUCING COMPACTION.	
1. AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE CONTRACTOR SHALL INVITE ALL SUB-CONTRACTORS, THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE CIVIL ENGINEER, AND A REPRESENTATIVE OF THE LOCAL COUNTY CONSERVATION DISTRICT TO AN ON-SITE PRE-CONSTRUCTION MEETING. PERIMETER E&S CONTROLS MAY BE INSTALLED PRIOR TO THE PRE-CONSTRUCTION MEETING.	WHEN EXCAVATING TO FINAL INVERT SUBGRADES UTILIZE A SMOOTH (TOOTHLESS) BLADE BUCKET TO AVOID LOCALIZED COMPACTION. DURING THE EXCAVATION OF EACH BASIN BOTTOM, INSTALL THE UNDERDRAIN SYSTEM IN ACCORDANCE WITH THE PLAN DETAILS. PLACE THE ENGINEERED SOIL MIX TO THE SPECIFIED ELEVATION WITHIN BASIN. ANY SOIL COMPACTION SHOULD BE AVOIDED IN THE BASIN BOTTOMS. REMOVE ALL SEDIMENT BASIN BAFFLES, CLEANOUT STAKES, AND SKIMMERS. WHEN SEEDING THE BASIN MIXES BE SURE TO HAND RAKE THE SEED INTO THE SOIL. A LICENSED PROFESSIONAL OR DESIGNEE SHALL BE PRESENT ONSITE DURING INSTALLATION OF THE UNDERDRAIN SYSTEM, ENGINEERED SOILS, AND FINAL	
2. AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INCORPORATED AT 1–800–242–1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.	GRADING/SEEDING OF INFILTRATION BASINS 2 & 3 AND MRC BASIN 1. 25. THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE OR DISPOSE OF ALL BUILDING MATERIALS AND	
3. 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 DEP PRIOR TO IMPLEMENTATION.	WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET SEQ., 271.1 ET SEQ., AND 287.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES ON OR OFF THE SITE. THESE BUILDING WASTES INCLUDE, BUT ARE NOT LIMITED TO, EXCESS SOIL MATERIALS, BUILDING MATERIALS, CONCRETE WASH WATER, SANITARY WASTES, ETC. THAT COULD ADVERSELY IMPACT WATER QUALITY.	AN NOTES
4. INSTALL EXTENDED ROCK CONSTRUCTION ENTRANCES AS SHOWN ON THE ATTACHED PLAN. 5. THE LIMITS OF DISTURBANCE (LOD) SHOULD BE MARKED PRIOR TO DISTURBANCE ACTIVITIES (I.E. SURVEY	26. PER NPDES REQUIREMENTS, "WITHIN 30 DAYS AFTER THE COMPLETION OF EARTH DISTURBANCE ACTIVITIES AUTHORIZED BY THIS PERMIT, INCLUDING THE PERMANENT STABILIZATION OF THE SITE AND PROPER INSTALLATION OF PCSM BMPS IN ACCORDANCE WITH THE APPROVED PCSM PLAN, OR UPON SUBMISSION	NT PL
STAKES, POSTS & ROPE, CONSTRUCTION FENCE, ETC.) 6. LOCATE, STAKE, AND FLAG AREAS MARKED AS PCSM BMP'S (I.E. MRC BASIN 1, INFILTRATION BASINS 2 & 3, SUBSURFACE INFILTRATION BEDS 1 & 2). REFER TO PCSM PLAN FOR ADDITIONAL INFORMATION AND LOCATION OF PCSM BMP'S. THESE AREAS SHOULD NOT BE COMPACTED DURING CONSTRUCTION. NO	OF THE NOT IF SOONER, THE PERMITTEE SHALL FILE WITH THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT A STATEMENT SIGNED BY A LICENSED PROFESSIONAL AND BY THE PERMITTEE CERTIFYING THAT WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THIS PERMIT AND THE APPROVED E&S AND PCSM PLANS. COMPLETION CERTIFICATES ARE NEEDED TO ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE PERMIT AND THE APPROVED E&S AND PCSM PLANS."	ANAGE OPMEN R STOI
CONSTRUCTION TRAFFIC SHALL OCCUR IN THESE AREAS EXCEPT AS NECESSARY FOR	CONTRACTOR NOTES	R M ALE ship Avanic
7. INSTALL PERIMETER SILT SOCK ON THE SITE AT LOCATIONS 1–28 AS INDICATED ON THE ATTACHED PLAN. SILT SOCK IS TO BE INSTALLED ALONG THE CONTOUR WHERE POSSIBLE, AT A LEVEL GRADE. THE SILT SOCK SHOULD BE POSITIONED IN SUCH A WAY AS TO PREVENT ANY SEDIMENT FROM LEAVING THE SITE. SEDIMENT ACCUMULATING TO HALF THE HEIGHT OF THE SILT SOCK SHALL BE REMOVED IN ORDER TO RESTORE THE SEDIMENT STORAGE CAPACITY OF THESE AREAS. IN THE CASE OF A FAILURE OF THE SILT SOCK DUE TO HIGH FLOWS, A NEW SECTION OF SILT SOCK SHALL BE INSTALLED ACROSS THE FAILED PORTION OF THE SILT SOCK. AT NO POINT SHALL UN–STABILIZED AREA DRAIN OFFSITE UNCONTROLLED. THE SILT SOCK IN LOCATIONS 29–31 IS TO ENSURE SEDIMENTATION OF THE ENGINEERED SOILS DOES NOT	 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 DEP PRIOR TO IMPLEMENTATION. PER NEW NPDES REQUIREMENTS, 'UPON THE INSTALLATION OR STABILIZATION OF ALL PERIMETER SEDIMENT CONTROL BMPS AND AT LEAST 3 DAYS PRIOR TO PROCEEDING WITH THE BULK EARTH DISTURBANCE ACTIVITIES, THE PERMITTEE OR CO-PERMITTEE SHALL PROVIDE NOTIFICATION TO THE DEPARTMENT OR 	DRMWATE LAND DE For AND TRA Lebanon Towns County, Pennsy
8. INSTALL INLET PROTECTION AT THE EXISTING INLETS ALONG SR 0422. INSTALL ROCK FILTER OUTLETS 1 &	AUTHORIZED CONSERVATION DISTRICT." 3. IF SOIL IT IS TAKEN TO OR BORROWED FROM ANOTHER CONSTRUCTION SITE, SAID SITE MUST HAVE AN	N ST NAL North banon
2 AT THE SOUTHWEST CORNER OF THE SITE.	APPROVED E&SPC PLAN. SEE THE "SOIL LIMITATIONS AND RESOLUTIONS" SECTION OF THIS E&S PLAN FOR FURTHER INFORMATION.	CTIO
9. PER NPDES REQUIREMENTS, "UPON THE INSTALLATION OR STABILIZATION OF ALL PERIMETER SEDIMENT CONTROL BMPS AND AT LEAST 3 DAYS PRIOR TO PROCEEDING WITH THE BULK EARTH DISTURBANCE ACTIVITIES, THE PERMITTEE OR CO-PERMITTEE SHALL PROVIDE NOTIFICATION TO THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT."	4. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE SPECIFIED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE STABILIZATION SPECIFICATIONS. DISTURBED AREAS WHICH ARE AT FINAL GRADE OR WHICH WILL NOT BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION SPECIFICATIONS.	NSTRUG IMINAR T WAR
10. INSTALL SEDIMENT BASINS 1, 2, AND 3 WHICH WILL SERVE AS SEDIMENT BASINS DURING CONSTRUCTION AND BE CONVERTED TO PERMANENT STORMWATER BASINS UPON TRIBUTARY STABILIZATION. DISTURB ONLY THE MINIMUM AREA NECESSARY TO INSTALL EACH SEDIMENT BASIN. THE SEDIMENT BASINS MUST BE CONSTRUCTED PRIOR TO ANY MAJOR EARTH DISTURBANCE, STRIPPING, OR CLEARING. EXCAVATION OF THE SEDIMENT BASINS SHALL ONLY BE TO THE ELEVATION IDENTIFIED ON THE PLAN. DO NOT OVEREXCAVATE FOR AMENDED SOILS AT THIS TIME. INSTALL THE OUTLET PIPE(S) FROM EACH BASIN ALONG WITH THE ASSOCIATED OUTLET STRUCTURE(S). CONSTRUCT IMPERVIOUS CLAY CORES, ANTI-SEEP COLLARS, AND BACKFILL EMBANKMENTS, COMPACTING TO 95% MAX DRY DENSITY. INSTALL NORTH AMERICAN GREEN C350 SLOPE PROTECTION AT EMERGENCY SPILLWAYS. INSTALL TYPE 'DW" END WALLS AND LEVEL SPREADERS AS	5. ALL SEDIMENT DEPOSITED WITHIN STORM SEWER CONVEYANCE PIPES SHALL BE REMOVED PRIOR TO COMPLETION OF THE PROJECT. ANY WATER PUMPED FROM THE STORMWATER BASIN OR OTHER AREA OF THE SITE SHALL BE PUMPED THROUGH A FILTER BAG AND THE COLLECTED SEDIMENT SHALL BE DISPOSED OF PROPERLY. ALL AREAS DISTURBED DURING THIS PROCESS SHALL BE STABILIZED IMMEDIATELY THROUGH SEEDING AND MULCHING. THE COUNTY CONSERVATION DISTRICT SHOULD BE CONTACTED PRIOR TO CONVERSION OR REMOVAL OF PRIMARY E&S BMPS AND MAY REQUIRE A SITE INSPECTION. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROLS ONCE THE SITE IS COMPLETELY STABILIZED (DEFINED AS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER, WITH A DENSITY CAPABLE OF RESISTING	POST CO PREL NL
APPLICABLE AT BASIN OUTLETS. INSTALL RIPRAP OUTLET PROTECTION AT THE BASIN OUTLETS WHERE SPECIFIED. INSTALL SEED IN THE INTERIOR SLOPES AND BERMS OF BASIN. INSTALL CLEAN OUT STAKES, BASIN BAFFLES, AND SKIMMERS WITHIN EACH SEDIMENT BASIN. PLEASE REFER TO THE E&S SHEETS FOR ADDITIONAL DETAIL. A LICENSED PROFESSIONAL OR DESIGNEE SHALL BE PRESENT ONSITE DURING	6. THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE OR DISPOSE OF ALL BUILDING MATERIALS AND	
SEDIMENT BASIN EXCAVATION AND INSTALLATION OF THE OUTLET PIPES, ANTI-SEEP COLLARS, AND CLAY CORES. 11. INSTALL SWALES 1 THROUGH 3 WHICH ARE TRIBUTARY TO THE SEDIMENT BASINS AT THIS TIME. ENSURE EROSION CONTROL LINING IS INSTALLED IN ACCORDANCE WITH THE PLAN DETAILS. INSTALL THE STORM	WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET SEQ., 271.1 ET SEQ., AND 287.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES ON OR OFF THE SITE. THESE BUILDING WASTES INCLUDE, BUT ARE NOT LIMITED TO, EXCESS SOIL MATERIALS, BUILDING MATERIALS, CONCRETE WASH WATER, SANITARY WASTES, ETC. THAT COULD ADVERSELY IMPACT WATER QUALITY.	sying Inc.
SEWER PIPING FROM I-3 TO EW-2. 12. IF SOIL IS TAKEN TO OR BORROWED FROM ANOTHER CONSTRUCTION SITE, SAID SITE MUST HAVE AN APPROVED E&SPC PLAN. SEE THE "SOIL LIMITATIONS AND RESOLUTIONS" SECTION OF THIS E&S PLAN FOR FURTHER INFORMATION.	7. PER NPDES REQUIREMENTS, "WITHIN 30 DAYS AFTER THE COMPLETION OF EARTH DISTURBANCE ACTIVITIES AUTHORIZED BY THIS PERMIT, INCLUDING THE PERMANENT STABILIZATION OF THE SITE AND PROPER INSTALLATION OF PCSM BMPS IN ACCORDANCE WITH THE APPROVED PCSM PLAN, OR UPON SUBMISSION OF THE NOT IF SOONER, THE PERMITTEE SHALL FILE WITH THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT A STATEMENT SIGNED BY A LICENSED PROFESSIONAL AND BY THE PERMITTEE	ring & Surve Mill Road / 5 nsyvania 170 7) 272–7148
13. CLEAR AND STRIP TOPSOIL ACROSS THE AREA OF PROPOSED DISTURBANCE AND PLACE ON THE TOPSOIL STOCKPILE AS SHOWN ON THE ATTACHED PLAN AND IN ACCORDANCE WITH PLAN DETAILS. INSTALL SILT SOCK BELOW EACH TOPSOIL STOCKPILE AS SHOWN ON THE ATTACHED PLAN. STOCKPILES MAY BE RELOCATED AS REQUIRED DURING CONSTRUCTION TO BRING A SECTION OF THE SITE UP TO GRADE. A 24" SILT SOCK SHALL BE INSTALLED BELOW EACH STOCKPILE. THE COUNTY CONSERVATION DISTRICT SHOULD BE NOTIFIED PRIOR TO THE RELOCATION OF ANY STOCKPILES.	CERTIFYING THAT WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THIS PERMIT AND THE APPROVED E&S AND PCSM PLANS. COMPLETION CERTIFICATES ARE NEEDED TO ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE PERMIT AND THE APPROVED E&S AND PCSM PLANS."	ckbeck Enginee 279 North Zinns Lebanon, Pen Phone: (71 Fax: (71)
14. ROUGH GRADE THE DISTURBED AREA TO CONSTRUCT THE BUILDING, ACCESS DRIVES, AND PARKING AREAS.		Ste
15. INSTALL WATER, SANITARY SEWER, STORM SEWER, AND ALL OTHER UTILITIES AT THIS TIME. DURING AND FOLLOWING STORM EVENTS PROVIDE A MEANS TO DEWATER PITS AND UTILITY TRENCHES. SPOIL MATERIAL FROM EXCAVATION OF THE TRENCHES SHALL BE PLACED ON THE UP-SLOPE SIDE OF THE TRENCH, THE LENGTH OF OPEN TRENCH SHALL BE LIMITED TO THAT WHICH WILL BE BACKFILLED THE SAME DAY, AND ANY AFFECTED BMP'S SHALL BE IMMEDIATELY STABILIZED AND REPAIRED. THE TOPSOIL EXCAVATED FROM THE TRENCH SHALL BE CAREFULLY REMOVED AND STOCKPILED SEPARATELY FROM THE SUBSOIL. THE TOPSOIL SHALL BE RESTORED TO THE GRADED AREAS TO PRE-CONSTRUCTION CONDITIONS. WATER PUMPED FROM PITS AND TRENCHES SHALL BE FILTERED BY MEANS OF A FILTER BAG. IMMEDIATELY AFTER TRENCHES HAVE BEEN BACKFILLED, FINE-GRADE AREA. ENSURE INLET PROTECTION IS PROVIDED FOR ALL STORM INLETS.		FIELD CREW:TB/SSBASE MAP:MADRAWN:CDSDESIGN:CDSCHECKED:SS
16. AT THIS TIME, EXCAVATE AS REQUIRED TO INSTALL SUBSURFACE INFILTRATION BEDS 1 & 2. INSTALL GEOTEXTILE, DISTRIBUTION PIPING SYSTEM, AND OUTLET STRUCTURES WITHIN EACH BED. BACKFILL BEDS PER PLAN DETAILS. A LICENSED PROFESSIONAL OR DESIGNEE SHALL BE PRESENT ONSITE DURING SUBSURFACE INFILTRATION BED EXCAVATION AND INSTALLATION OF THE GEOTEXTILE, DISTRIBUTION PIPING, OUTLET STRUCTURE, AND BACKFILL.		DATE: 08-05-22 SCALE: 1"=50' PROJECT #2214-22-001
17. INSTALL FLEXSTORM INLET FILTERS ON ALL INLETS TRIBUTARY TO THE SUBSURFACE INFILTRATION BEDS AS INDICATED ON THE PLANS.		
18. INSTALL THE STONE SUB-BASE FOR THE PARKING AREAS AND CONCRETE SLAB PER PLAN REQUIREMENTS.		
19. CONSTRUCT THE PROPOSED BUILDING AND ATTACHED UTILITIES (ROOF DRAINS, SANITARY CONNECTIONS,		19 OF 56 SHEETS

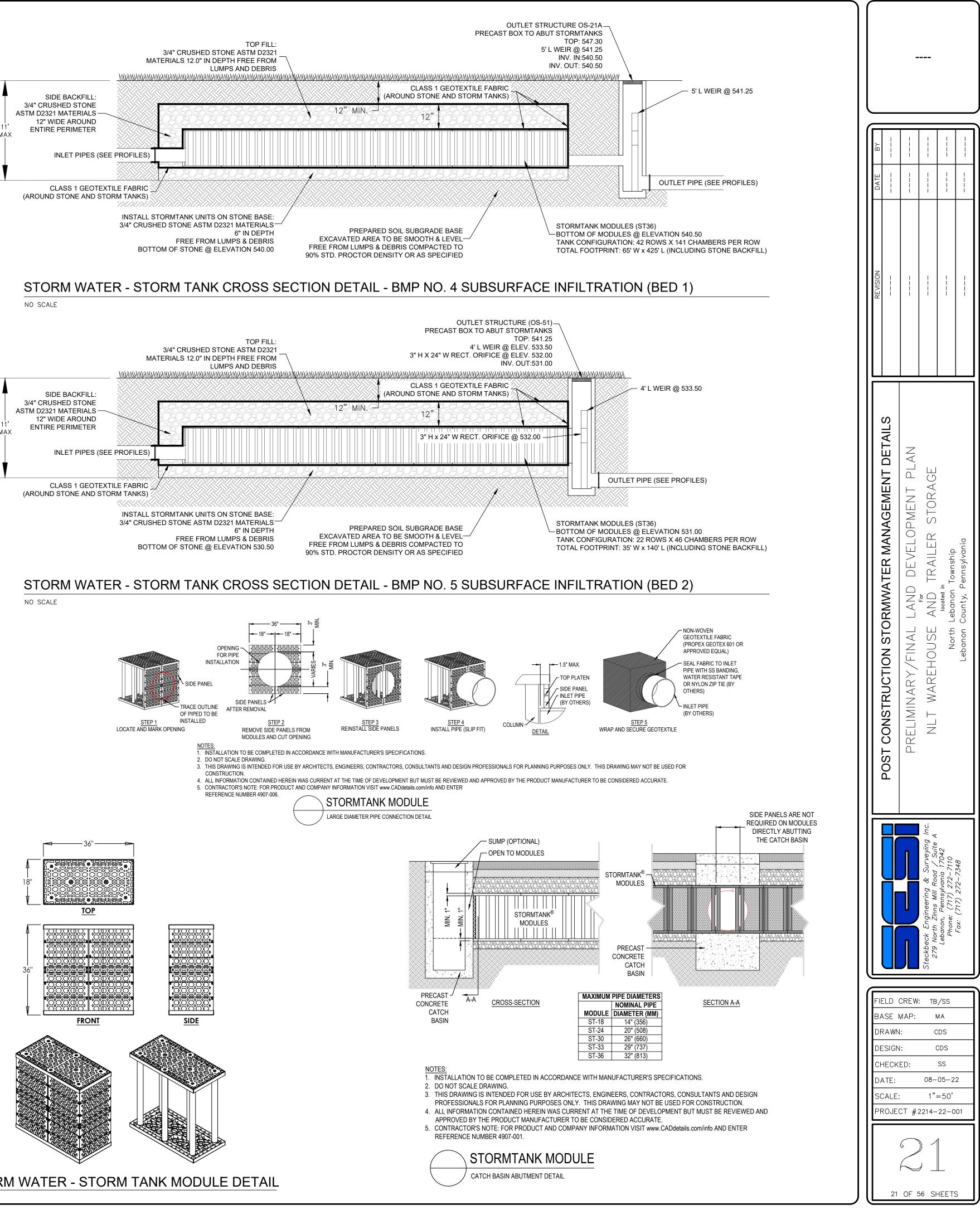


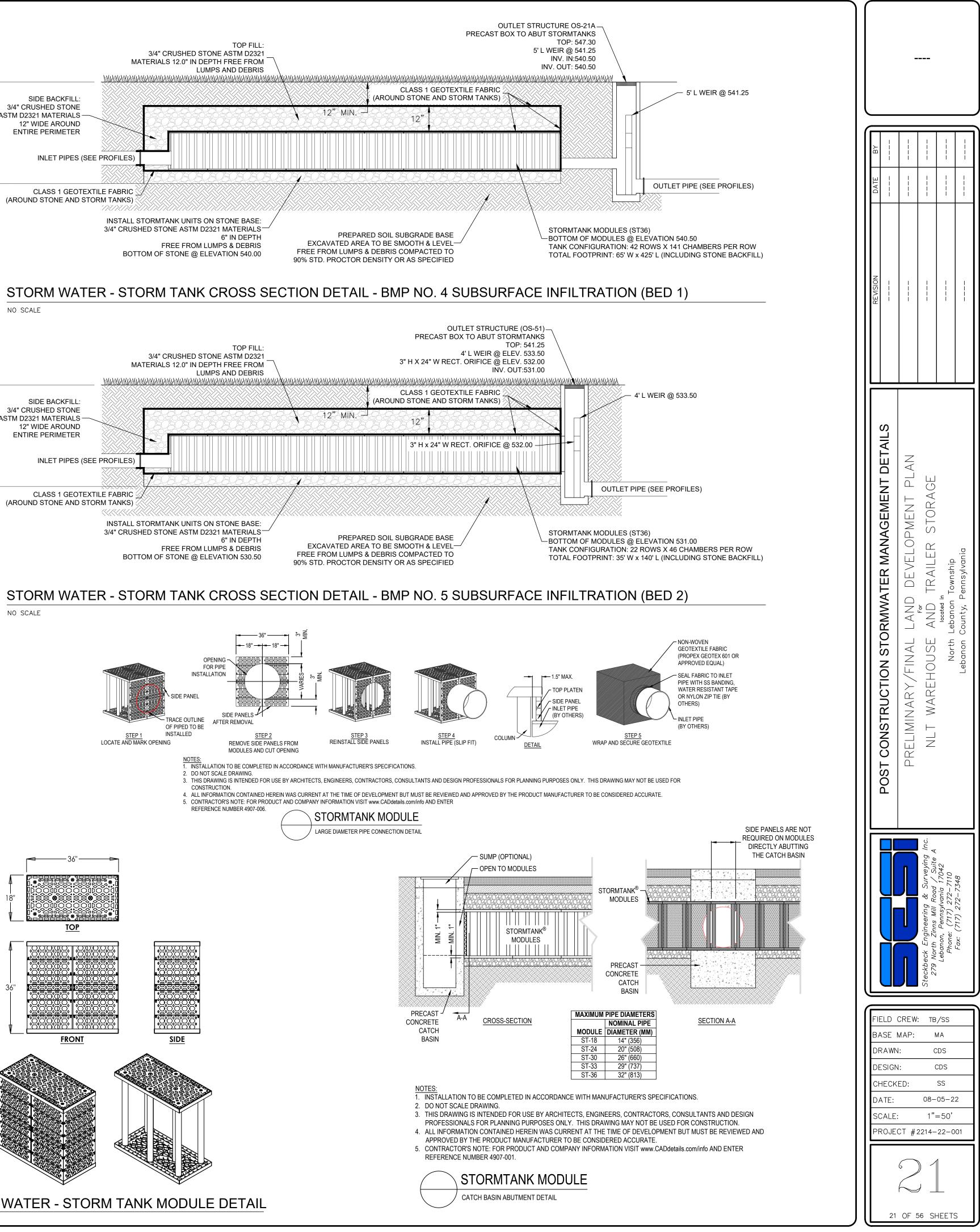


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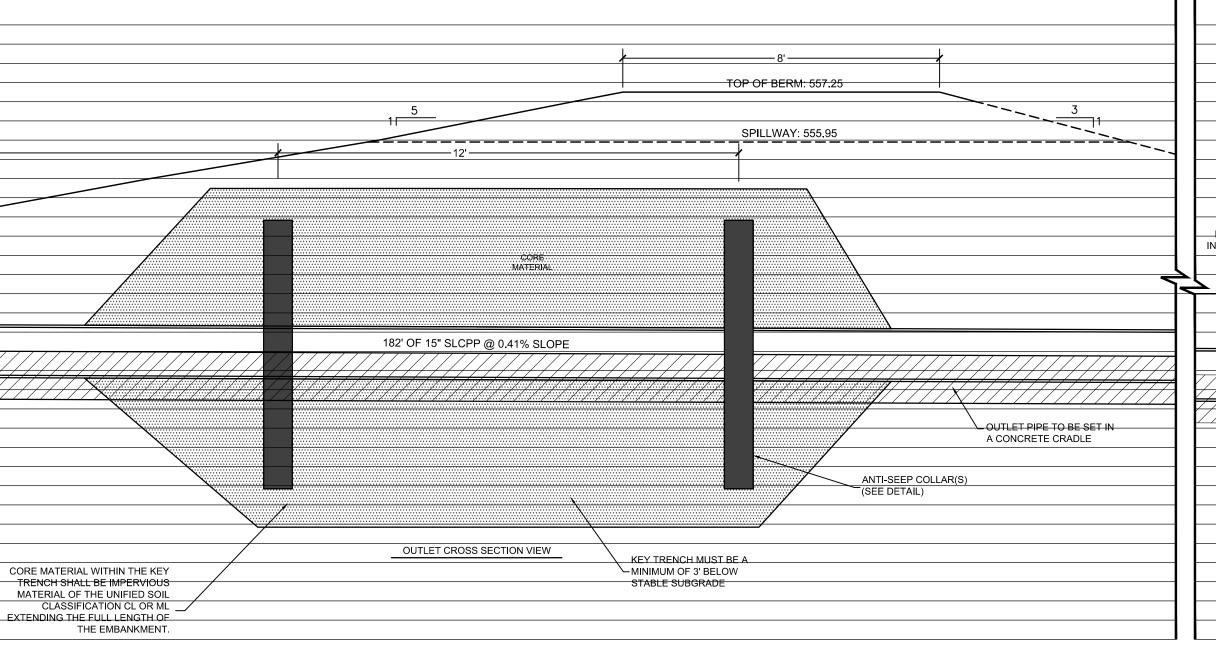
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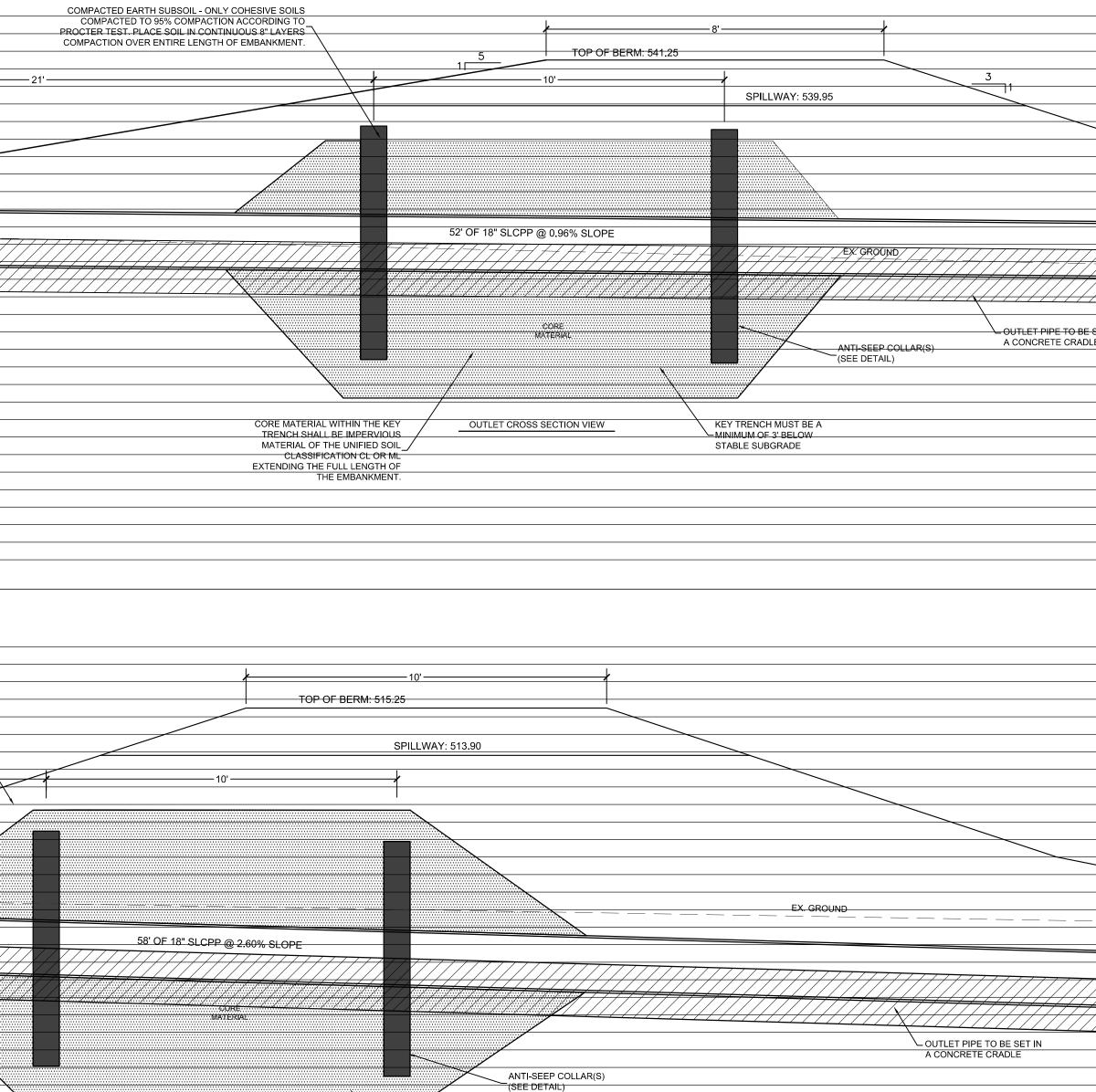






	BASIN 1 OUTLET (OS-3) TOP: 555.25 6"HX18"W RECT, ORIFICE: 553.00			
1.1"3	6"HX18"W RECT. ORIFICE: 553.00 3"Ø ORIFICE: 551.10 Ø ORIFICE (ON UNDERDRAIN): 550.00 BASIN OUTLET: 550.00	BOLT TYPE M FR	RAME TO INLET TOP	
	6"HX18"W ORIFICE: 553.00 BOTTOM BASIN: 551.00 3"Ø ORIFICE: 551.1	The second second second		
OUTLET STRUCTURE FRONT VIEV			OUTLET PIPE TO BE SE A CONCRETE CRADLE	т IN
	12" AMENDED SOILS 6" PERECUNDERD			
BASIN 1 OUTLET				1 [
SCALE: 1" = 2.5'				
	BOLT TYPE M FRAME TO INLET TO	P ~		
	BASIN 2 OUTLET (OS-2) TOP: 539.25 6"HX24"W RECT. ORIFICE: 537.25 BASIN OUTLET: 535.50			
	6"HX24"W ORIFICE: 537.25			
	BOTTOM BASIN: 536.00			
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OUTLET STRUCTURE FRONT VIEW	BOLT TYPE M FRAME TO INLE	• • •	ATION	
OUTLET STRUCTURE FRONT VIEW	BOLT TYPE M FRAME TO INLE BASIN 3 OUTLET (OS-1A) TOP: 513.25 3"HX24"W RECT. ORIFACE:512.00	• • •	ATION	
<u>OUTLET STRUCTURE FRONT VIEW</u>	BOLT TYPE M FRAME TO INLE BASIN 3 OUTLET (OS-1A) TOP: 513.25	• • •	COMPACTED EARTH SUBSOIL - ONLY COMPACTED TO 95% COMPACTIO PROCTER TEST. PLACE SOIL IN CONTH	
<u>OUTLET STRUCTURE FRONT VIEW</u>	BOLT TYPE M FRAME TO INLE BASIN 3 OUTLET (OS-1A) TOP: 513.25 3"HX24"W RECT. ORIFACE:512.00	• • •	COMPACTED EARTH SUBSOIL - ONLY COMPACTED TO 95% COMPACTIO PROCTER TEST. PLACE SOIL IN CONTH	
	BOLT TYPE M FRAME TO INLE BASIN 3 OUTLET (OS-1A) TOP: 513.25 3"HX24"W RECT. ORIFACE:512.00	• • •	COMPACTED EARTH SUBSOIL - ONLY COMPACTED TO 95% COMPACTIO PROCTER TEST. PLACE SOIL IN CONTIN COMPACTION OVER ENTIRE LENGTH (
OUTLET STRUCTURE FRONT VIEW OUTLET STRUCTURE FRONT VIEW BASIN 2 OUTLET SCALE: 1" = 2.5'	BOLT TYPE M FRAME TO INLE BASIN 3 OUTLET (OS-1A) TOP: 513.25 3"HX24"W RECT. ORIFACE:512.00 BASIN OUTLET: 508.00	• • •	COMPACTED EARTH SUBSOIL - ONLY COMPACTED TO 95% COMPACTIO PROCTER TEST. PLACE SOIL IN CONTIN COMPACTION OVER ENTIRE LENGTH (
	BOLT TYPE M FRAME TO INLE BASIN 3 OUTLET (OS-1A) TOP: 513.25 3"HX24"W RECT. ORIFACE:512.00 BASIN OUTLET: 508.00	• Image: Constraint of the second s	COMPACTED EARTH SUBSOIL - ONLY COMPACTED TO 95% COMPACTIO PROCTER TEST. PLACE SOIL IN CONTIN COMPACTION OVER ENTIRE LENGTH (
	BOLT TYPE M FRAME TO INLE BASIN 3 OUTLET (OS-1A) TOP: 513.25 3"HX24"W RECT. ORIFACE:512.00 BASIN OUTLET: 508.00	• Image: Constraint of the second s	COMPACTED EARTH SUBSOIL - ONLY COMPACTED TO 95% COMPACTIO PROCTER TEST. PLACE SOIL IN CONTIN COMPACTION OVER ENTIRE LENGTH (
	BOLT TYPE M FRAME TO INLE BASIN 3 OUTLET (OS-1A) TOP: 513.25 3"HX24"W RECT. ORIFACE:512.00 BASIN OUTLET: 508.00	• Image: Constraint of the second s	COMPACTED EARTH SUBSOIL - ONLY COMPACTED TO 95% COMPACTIO PROCTER TEST. PLACE SOIL IN CONTIN COMPACTION OVER ENTIRE LENGTH (N ACCORDING TO NOUS &" LAYERS OF EMBANKMENT.
	BOLT TYPE M FRAME TO INLE BOLT TYPE M FRAME TO INLE BASIN 3 OUTLET (OS-1A) TOP: 513.25 3"HX24"W RECT. ORIFACE:512.00 BASIN OUTLET: 508.00 BASIN OUTLET: 508.00	• Image: Constraint of the second s	COMPACTED EARTH SUBSOIL - ONLY COMPACTED TO 95% COMPACTIO PROCTER TEST. PLACE SOIL IN CONTIN COMPACTION OVER ENTIRE LENGTH (N ACCORDING TO NOUS &" LAYERS OF EMBANKMENT.
	BOLT TYPE M FRAME TO INLE BOLT TYPE M FRAME TO INLE BASIN 3 OUTLET (OS-1A) TOP: 513.25 3"HX24"W RECT. ORIFACE:512.00 BASIN OUTLET: 508.00 BASIN OUTLET: 508.00	PRATED RAIN KNIFE VALVE* KNIFE VALVE TO REMAI DURING NORMAL OPER	COMPACTED EARTH SUBSOIL - ONLY COMPACTED TO 95% COMPACTIO PROCTER TEST. PLACE SOIL IN CONTIN COMPACTION OVER ENTIRE LENGTH (N ACCORDING TO NOUS &" LAYERS OF EMBANKMENT.
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	BOLT TYPE M FRAME TO INLE BOLT TYPE M FRAME TO INLE BASIN 3 OUTLET (OS-1A) TOP: 513.25 3"HX24"W RECT. ORIFACE:512.00 BASIN OUTLET: 508.00 BASIN OUTLET: 508.00		COMPACTED EARTH SUBSOIL - ONLY COMPACTED TO 95% COMPACTIO PROCTER TEST. PLACE SOIL IN CONTIN COMPACTION OVER ENTIRE LENGTH (N ACCORDING TO NOUS &" LAYERS OF EMBANKMENT.
	BOLT TYPE M FRAME TO INLE BOLT TYPE M FRAME TO INLE BASIN 3 OUTLET (OS-1A) TOP: 513.25 3"HX24"W RECT. ORIFACE:512.00 BASIN OUTLET: 508.00 BASIN OUTLET: 508.00		COMPACTED EARTH SUBSOIL - ONLY COMPACTED TO 95% COMPACTIO PROCTER TEST. PLACE SOIL IN CONTIN COMPACTION OVER ENTIRE LENGTH (12'	N ACCORDING TO NOUS &" LAYERS OF EMBANKMENT.

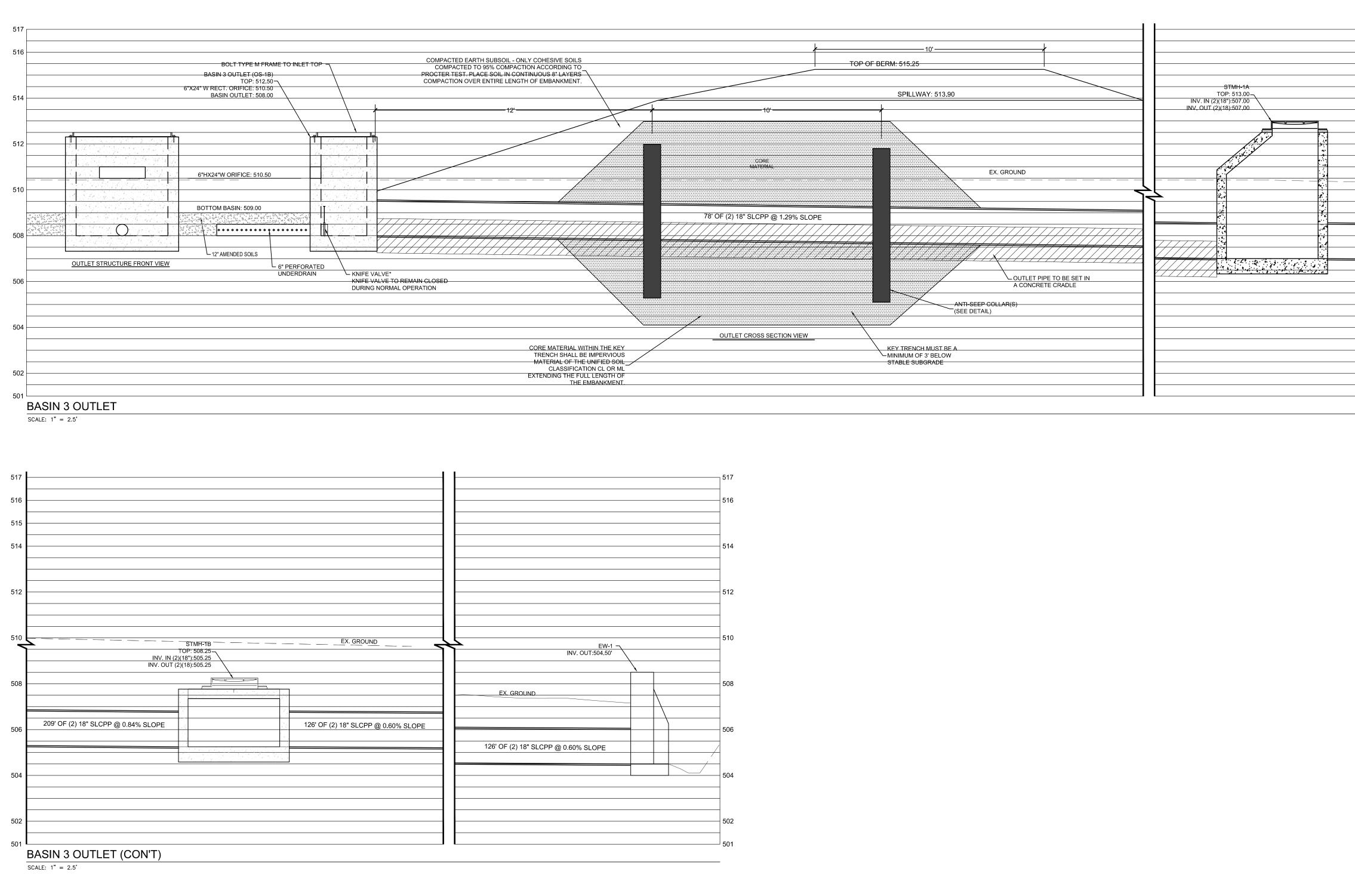




KEY TRENCH MUST BE A STABLE SUBGRADE

OUTLET CROSS SECTION VIEW

	559 558 556	
LS-1 TOP: 551.06 INV. IN : 549.25 INV. OUT: 549.25 CLEANOUT TOP:551.06 INV.: 549.25	554	DATE BY
12' OF 15" SLCPP @ 0.00% SLOPE I	550	RE VISION
	- 546 - 544 - 543	
<u>EW-5</u> INV: 535.00	543 542 540	ENT DETAILS PLAN AGE
PR. GROUND	538	STORMWATER MANAGEMENT VAL LAND DEVELOPMENT PL For JSE AND TRAILER STORAGE North Lebanon Township anon County, Pennsylvania
	534	FRUCTION STORMWATER N NARY∕FINAL LAND DEVE WAREHOUSE AND TRAIL Iscated in North Lebanon Township Lebanon County, Pennsylvar
	530 528 527	POST CONSTRUCTION PRELIMINARY/FIN NLT WAREHOU
	517 516 514	eering & Surveying Inc. eering & Surveying Inc. ennsyvania 17042 (717) 272–7348
I-1 TOP: 509.25 INV. IN: 506.50 INV. OUT: 506.40	512	Steckbeck Engineering & Su 279 North Zinns Mill Road , Lebanon, Pennsyvania 1 Fax: (717) 272–734
EX. 18" RCP	508	FIELD CREW:TB/SSBASE MAP:MADRAWN:CDSDESIGN:CDSCHECKED:SSDATE:08-05-22SCALE:1"=50'
	502	PROJECT #2214-22-001

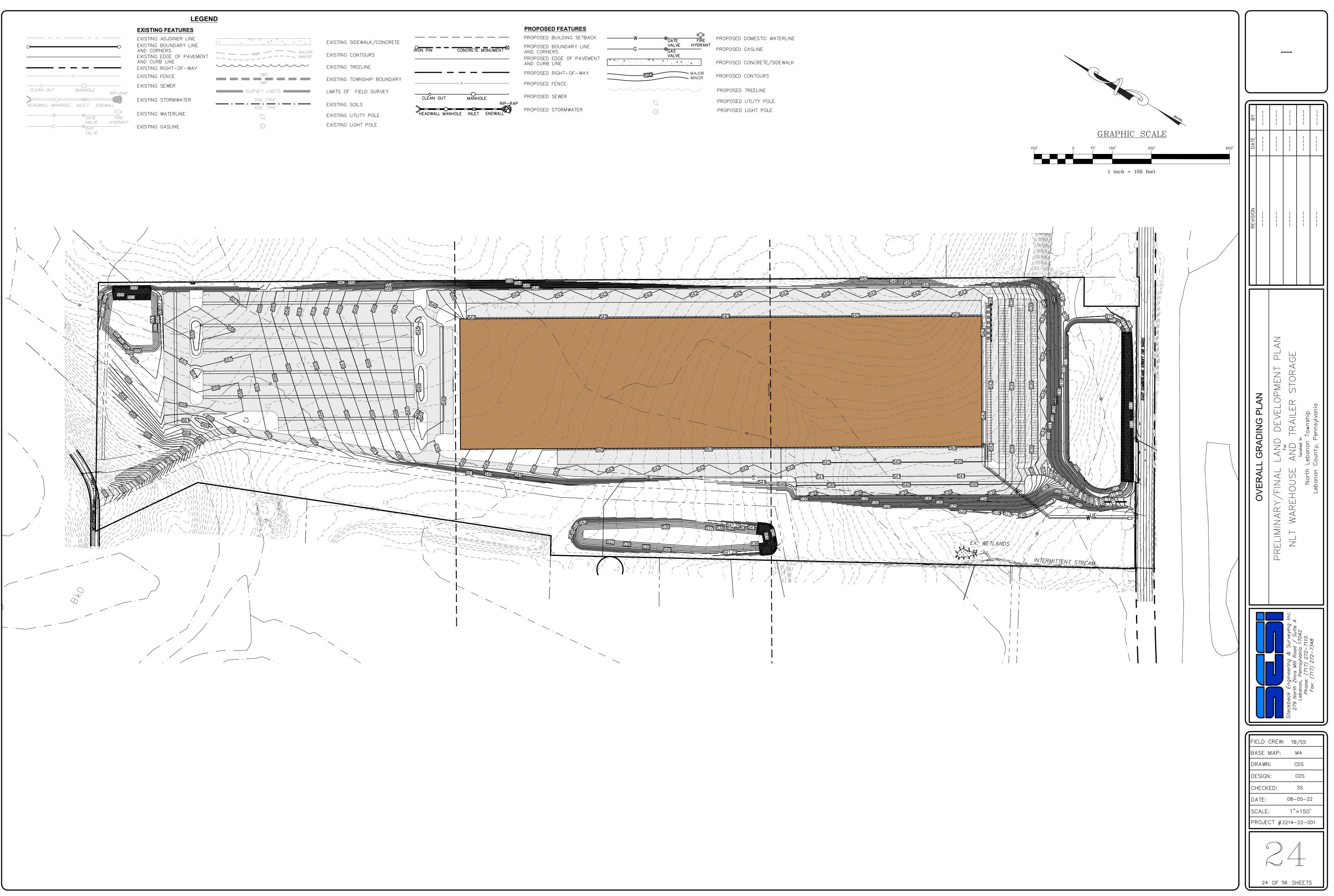


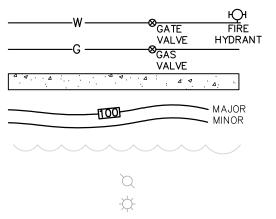
		-				
DATE BY						
REVISION						
	POST CONSTRUCTION STORMWATER MANAGEMENT DETAILS	PRELIMINARY/FINAL LAND DEVELOPMENT PLAN	NLT WAREHOUSE AND TRAILER STORAGE	Iocated in North Lebanon Township	Lebanon County, Pennsylvania	
			Steckbeck Engineering & Surveying Inc. 279 North Zinns Mill Road / Suite A	Lebanon, Pennsylvania 17042 Phone: (717) 272–7110	Fax: (717) 272–7348	
FIELD CREW: TB/SS BASE MAP: MA DRAWN: CDS DESIGN: CDS CHECKED: SS DATE: 08-05-22 SCALE: 1"=50' PROJECT #2214-22-001						
	4 23	OF 5	56 SH	HEETS	6	

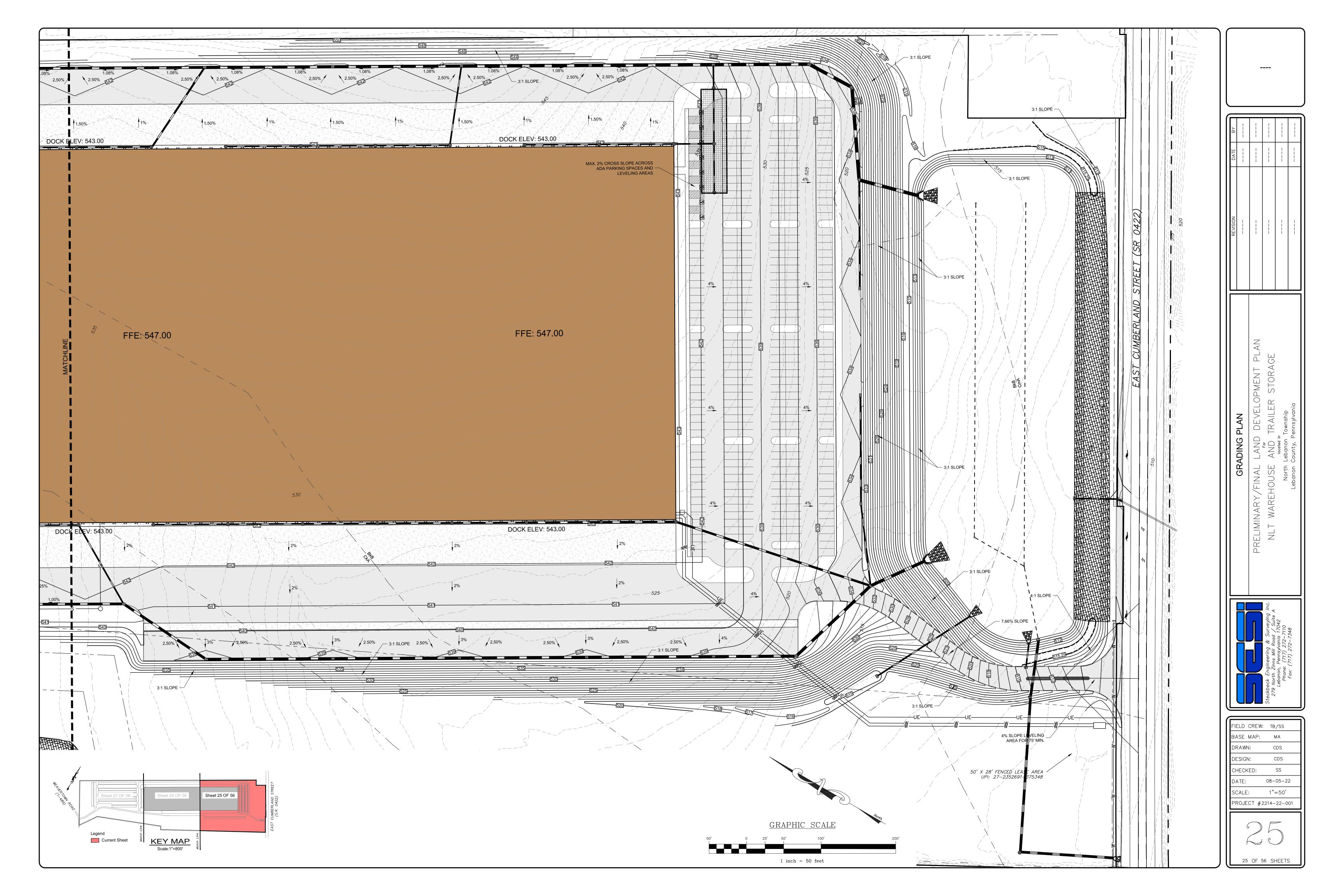
	517
	514
	512
	510
209' OF (2) 18" SLCPP @ 0.84% SLOPE	508
	506
	504
	502 501

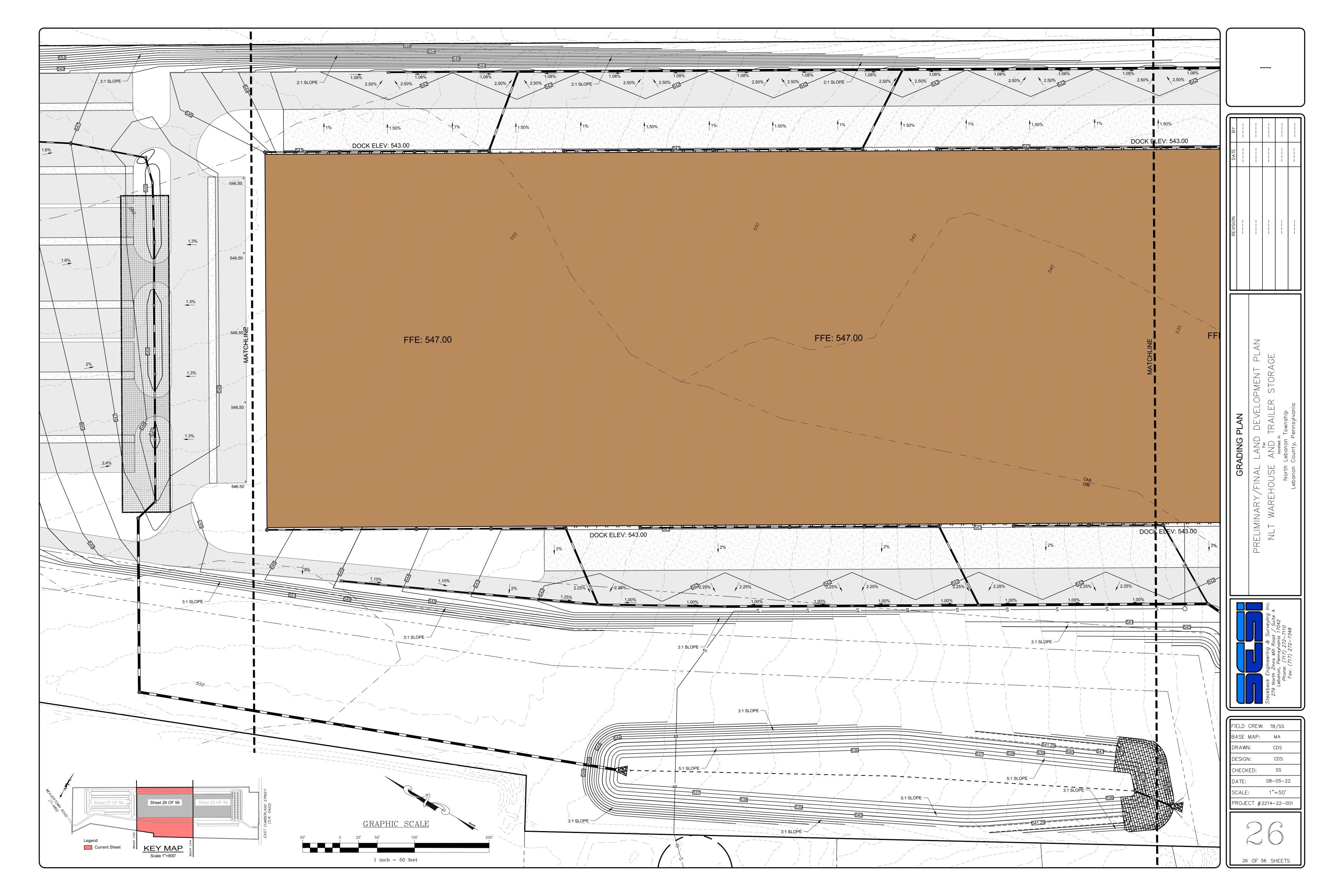


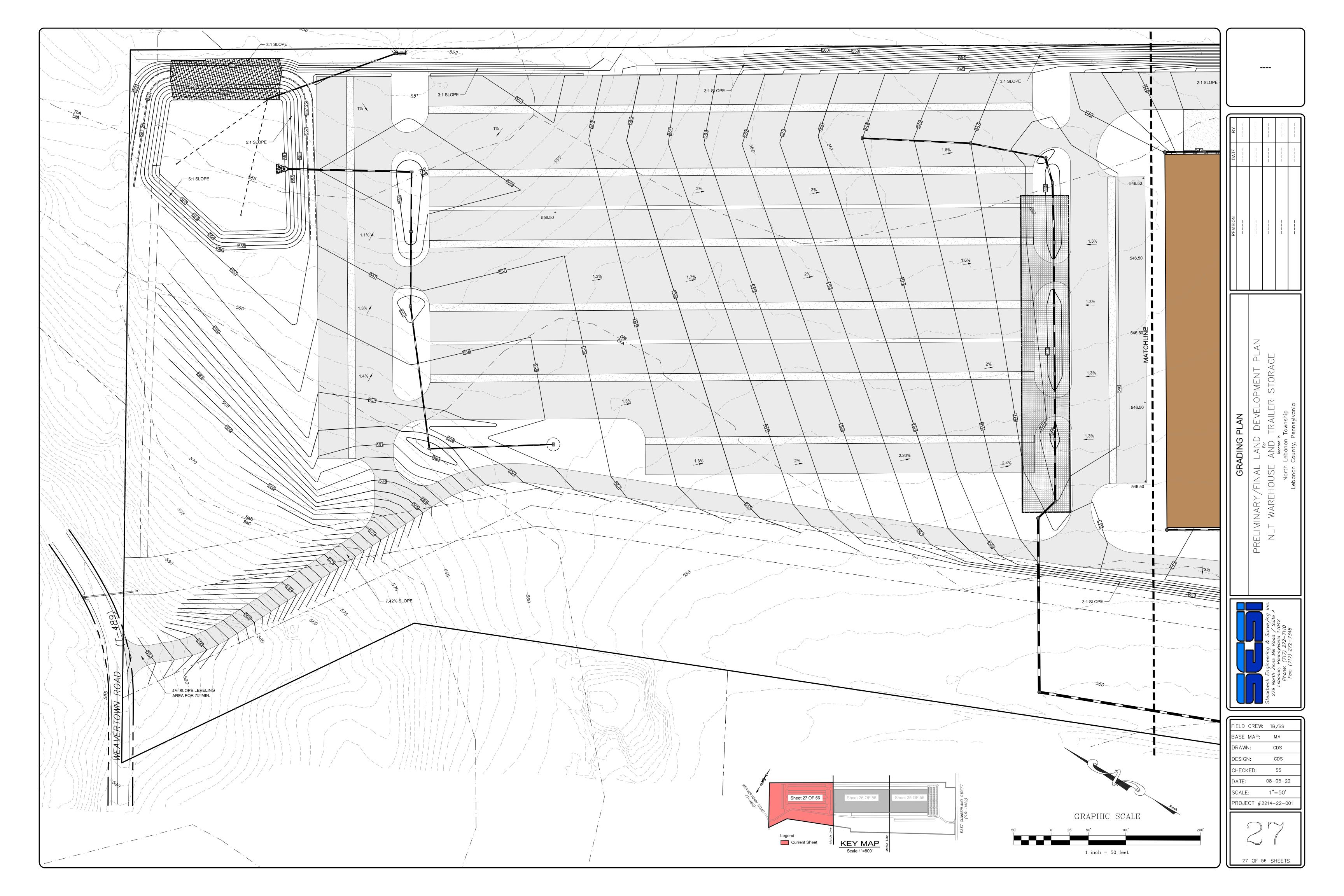
EXISTING ADJOINER LINE

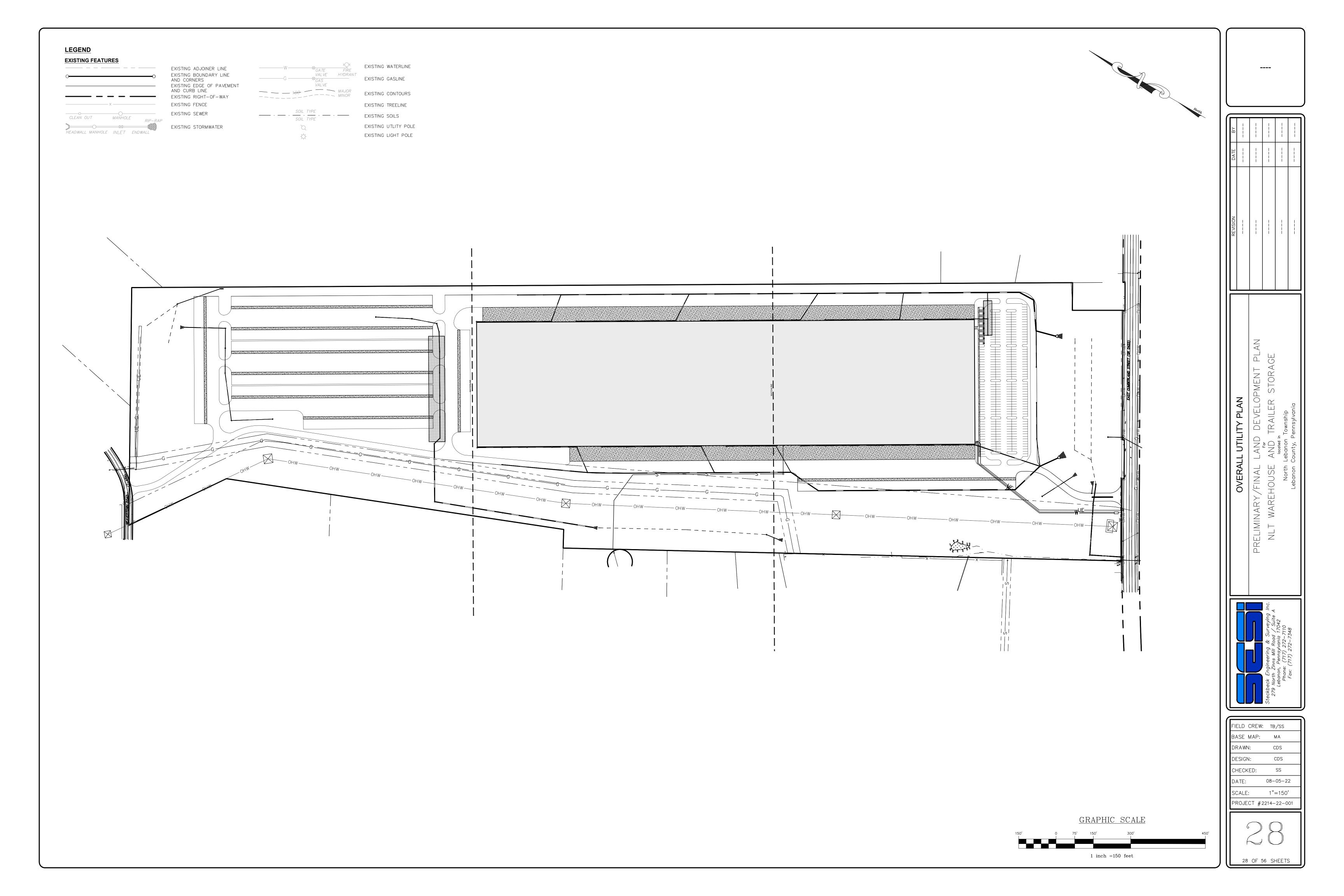


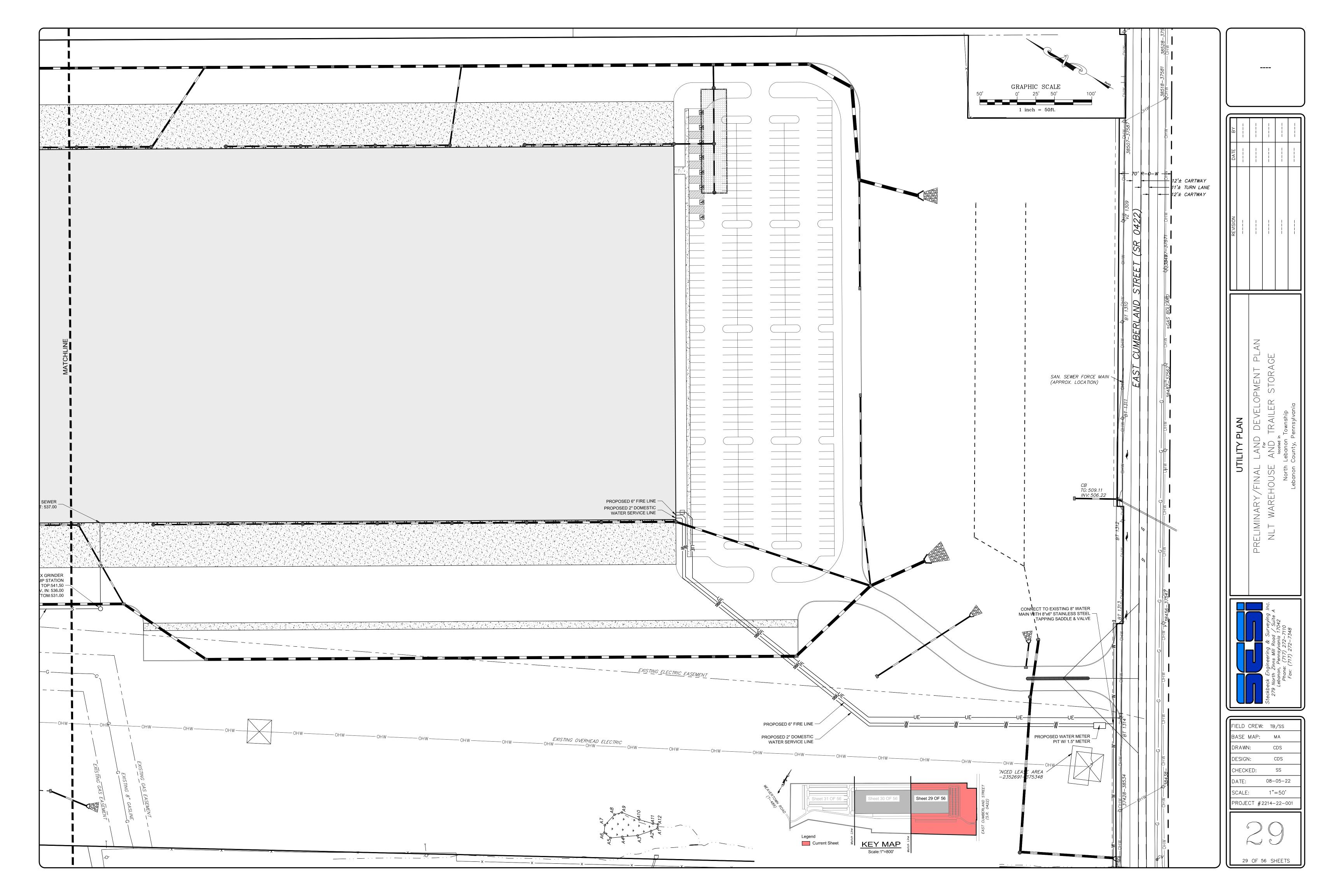


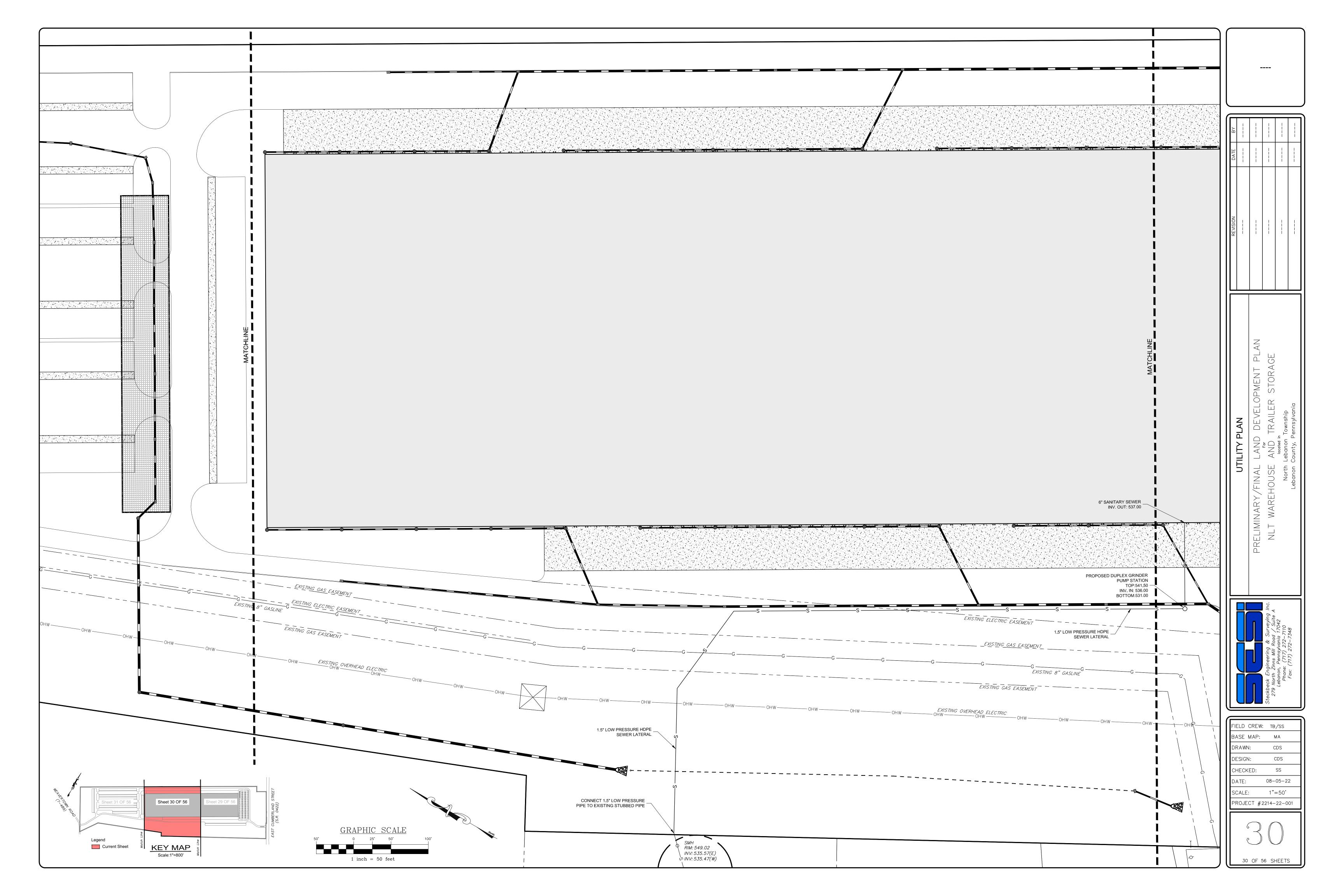


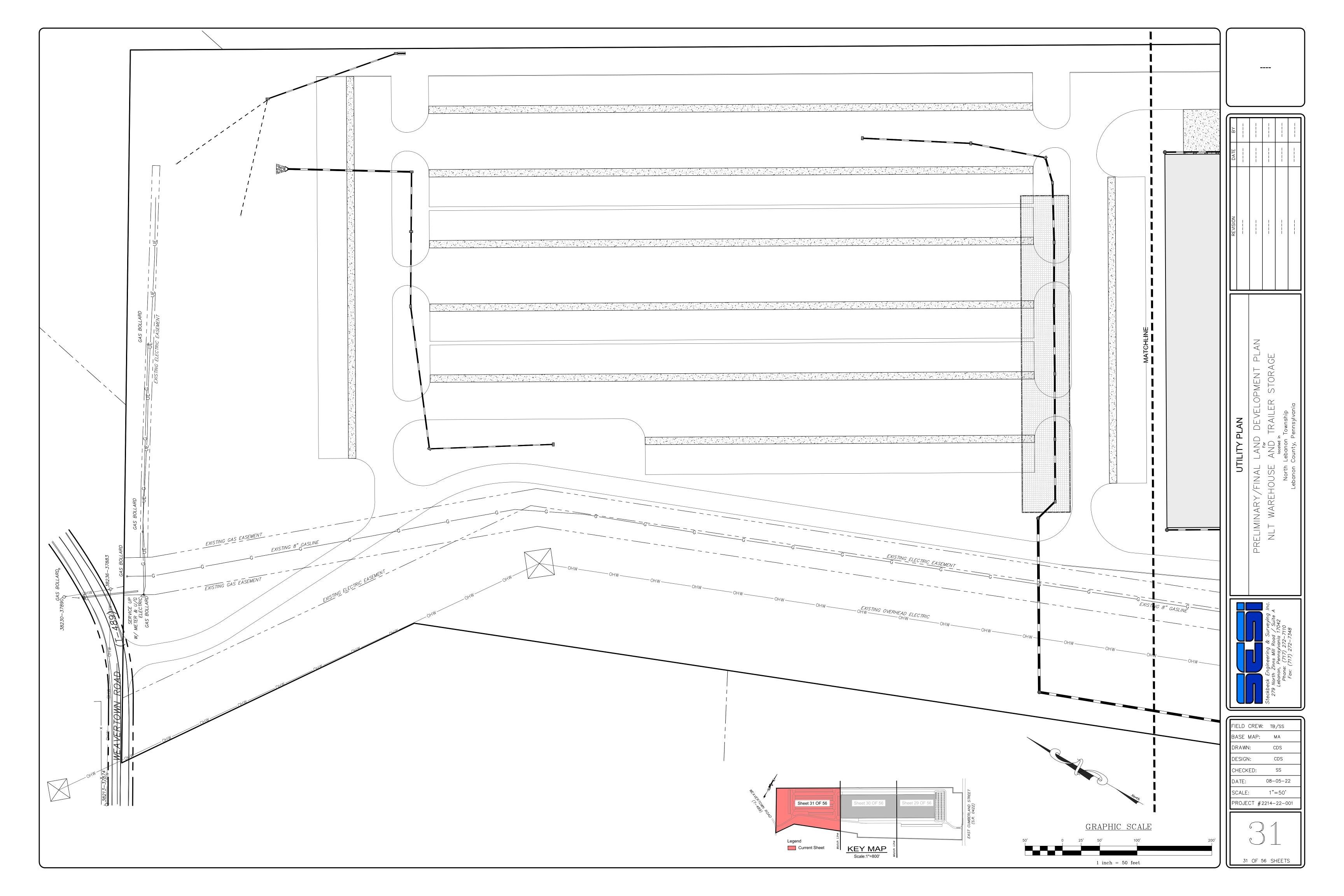


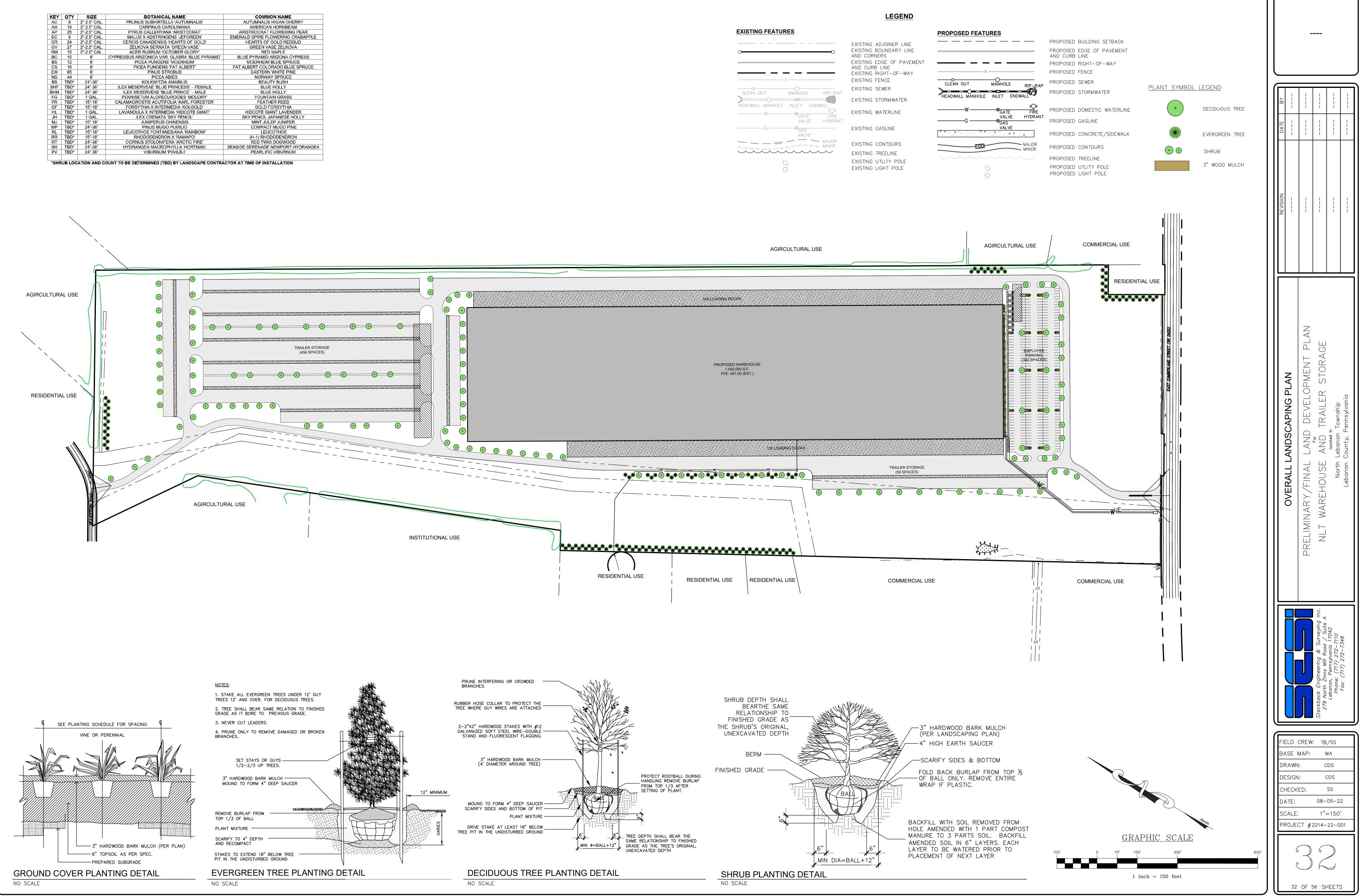


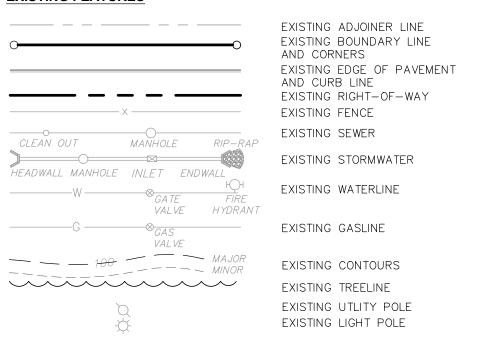


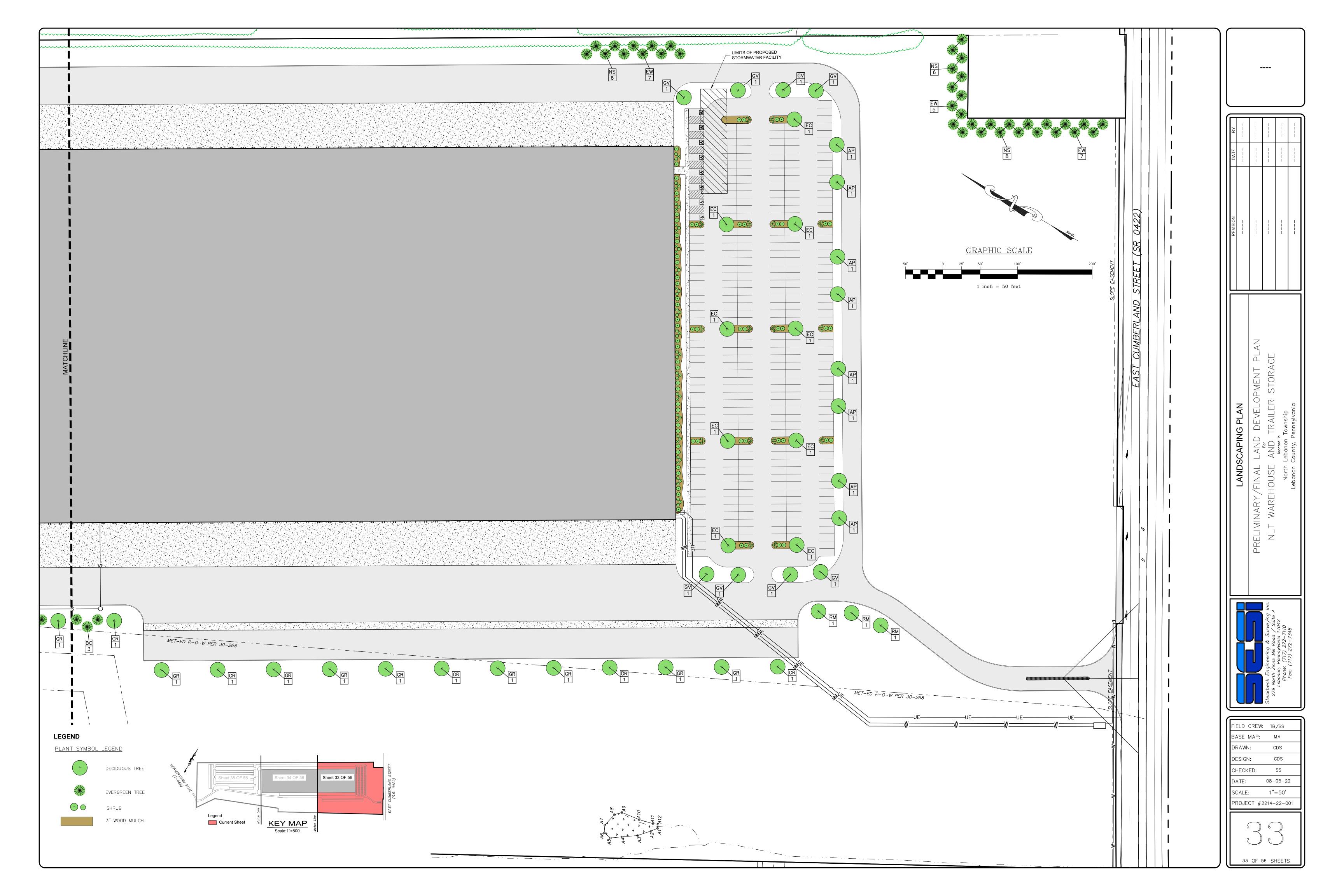


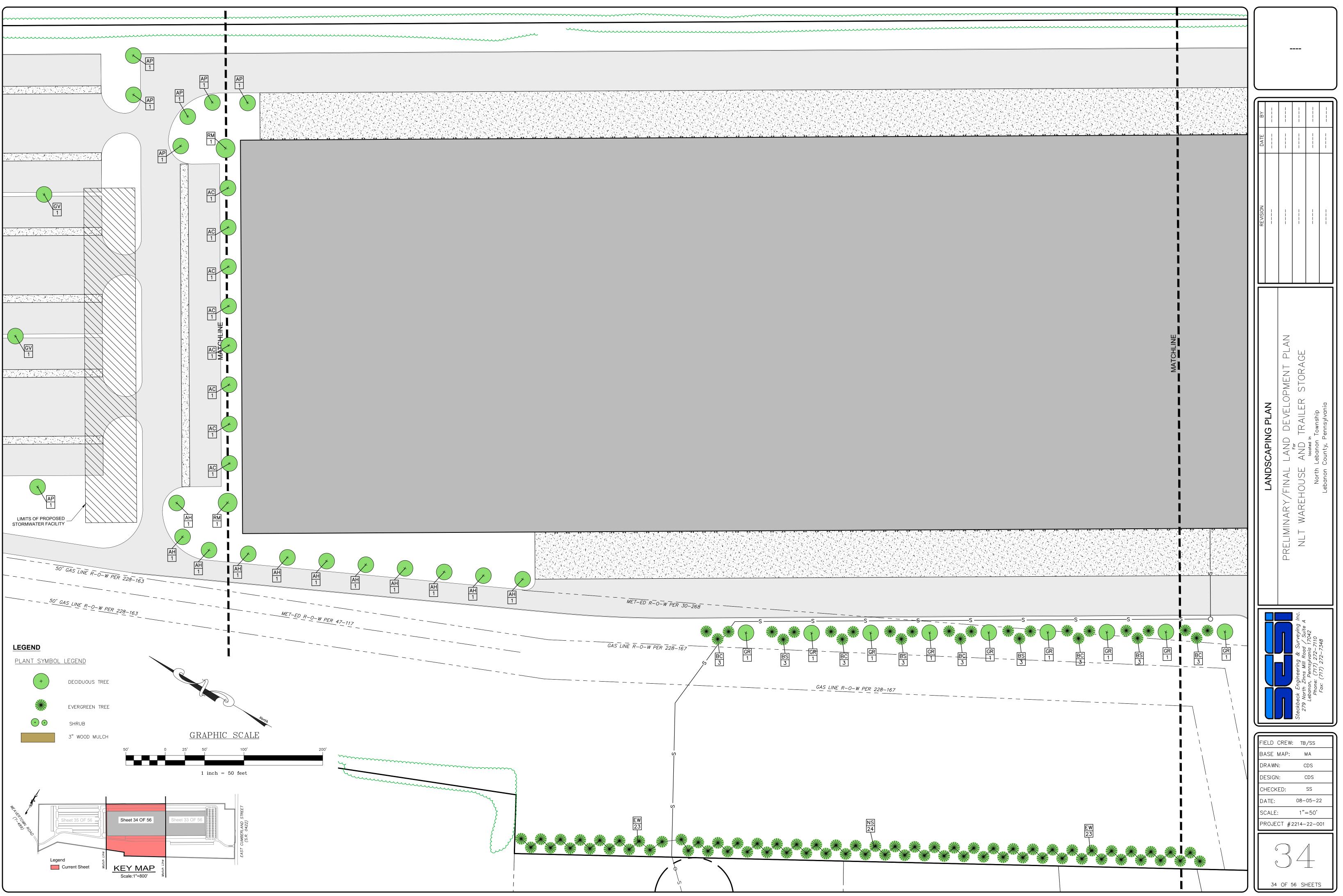




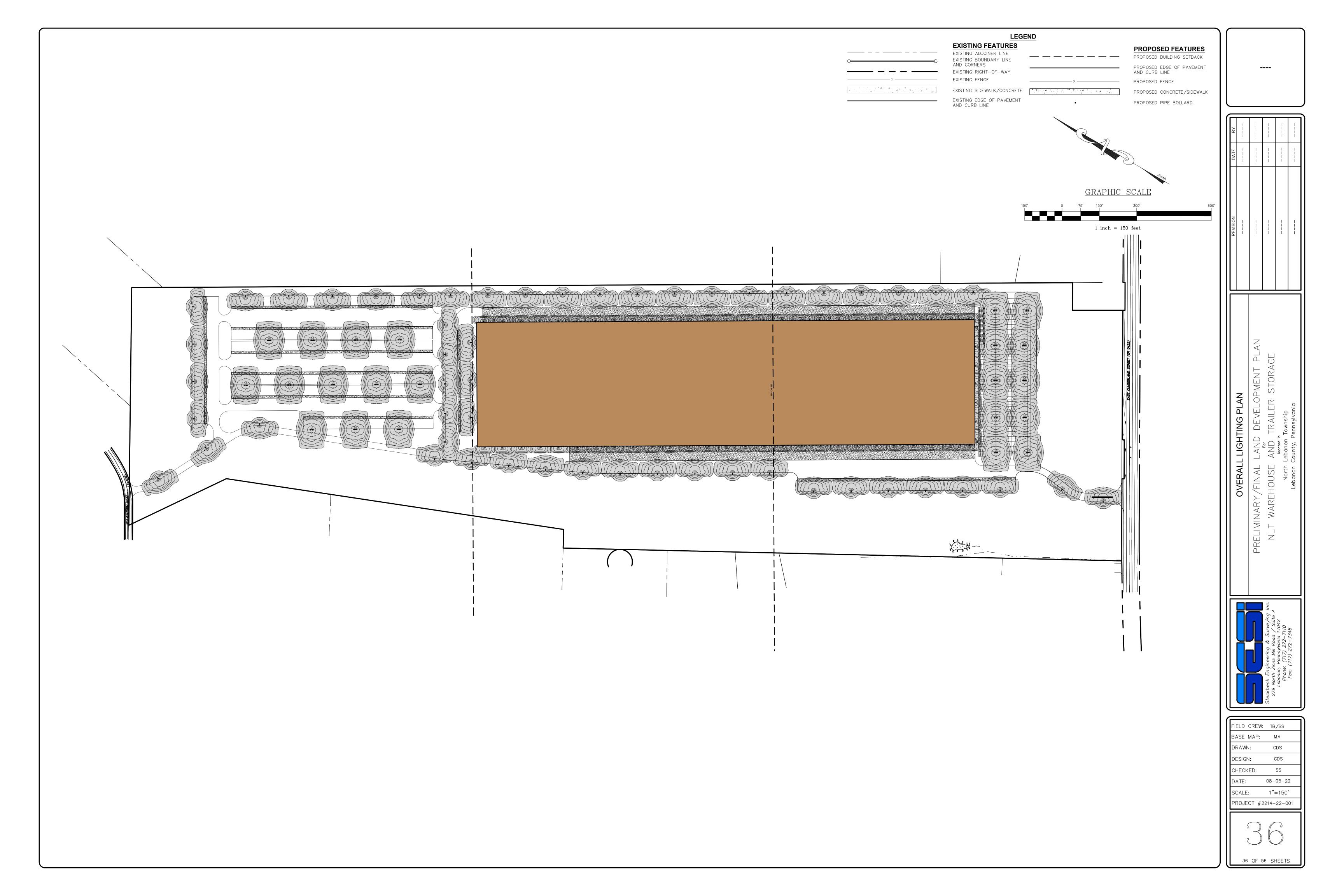


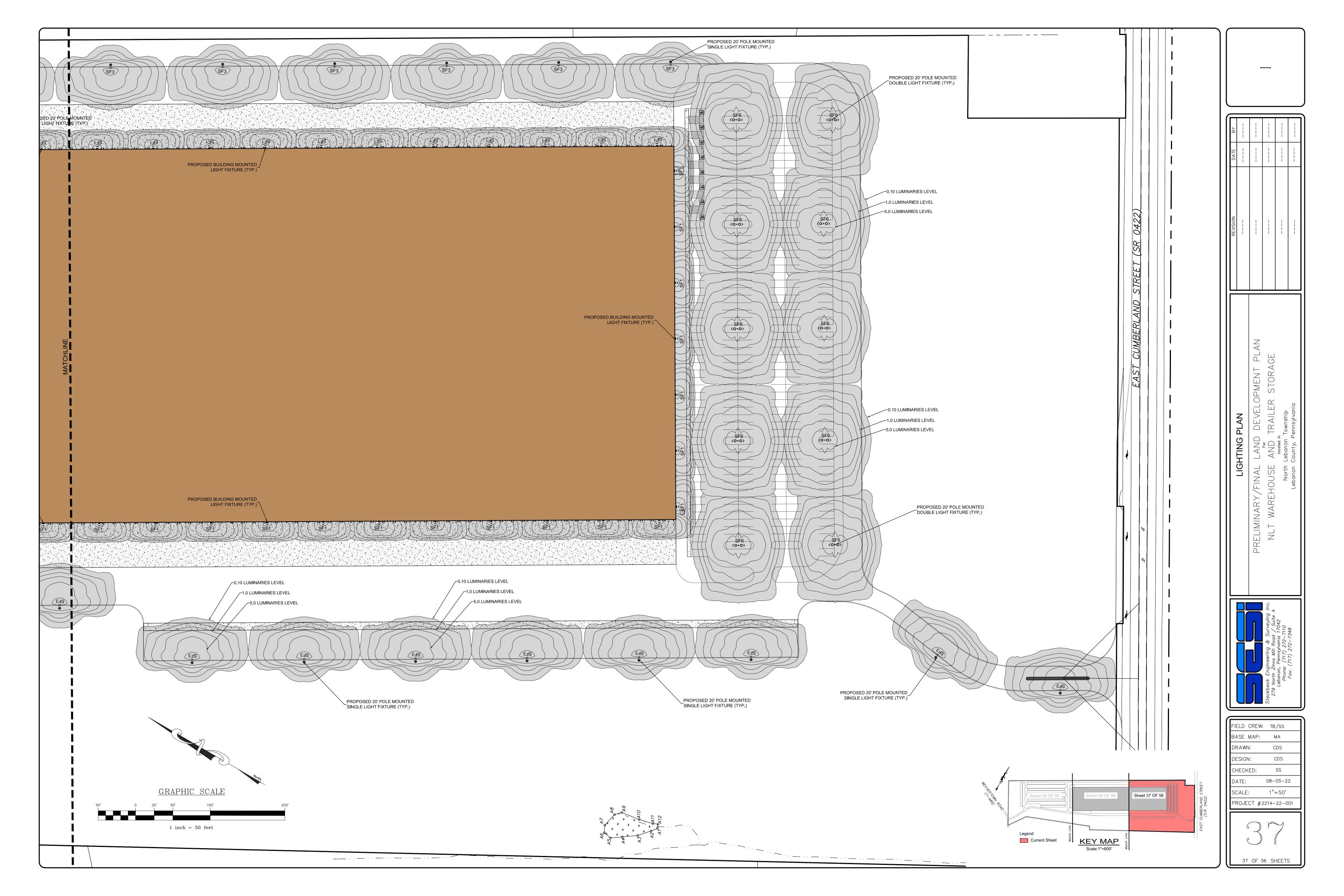


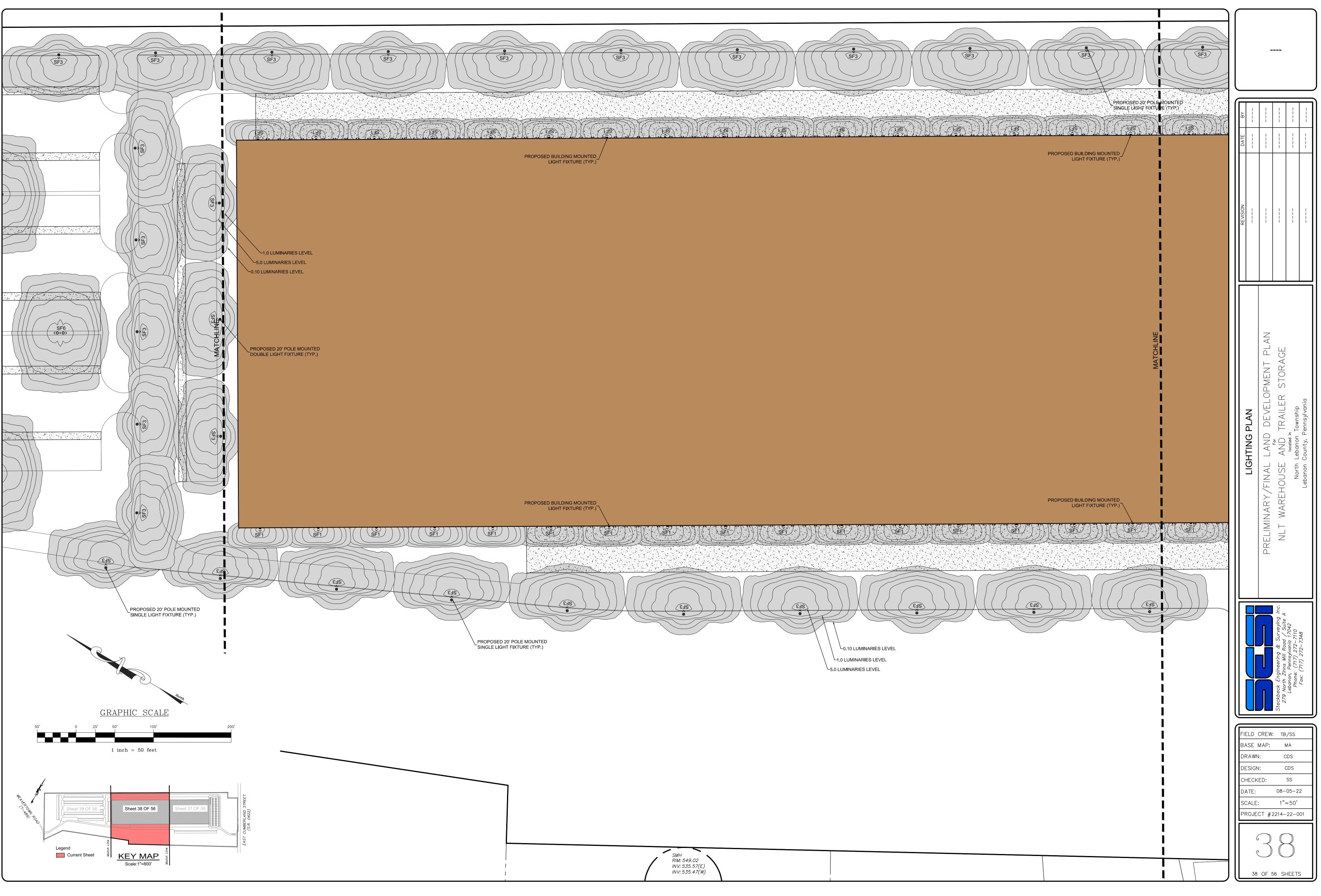




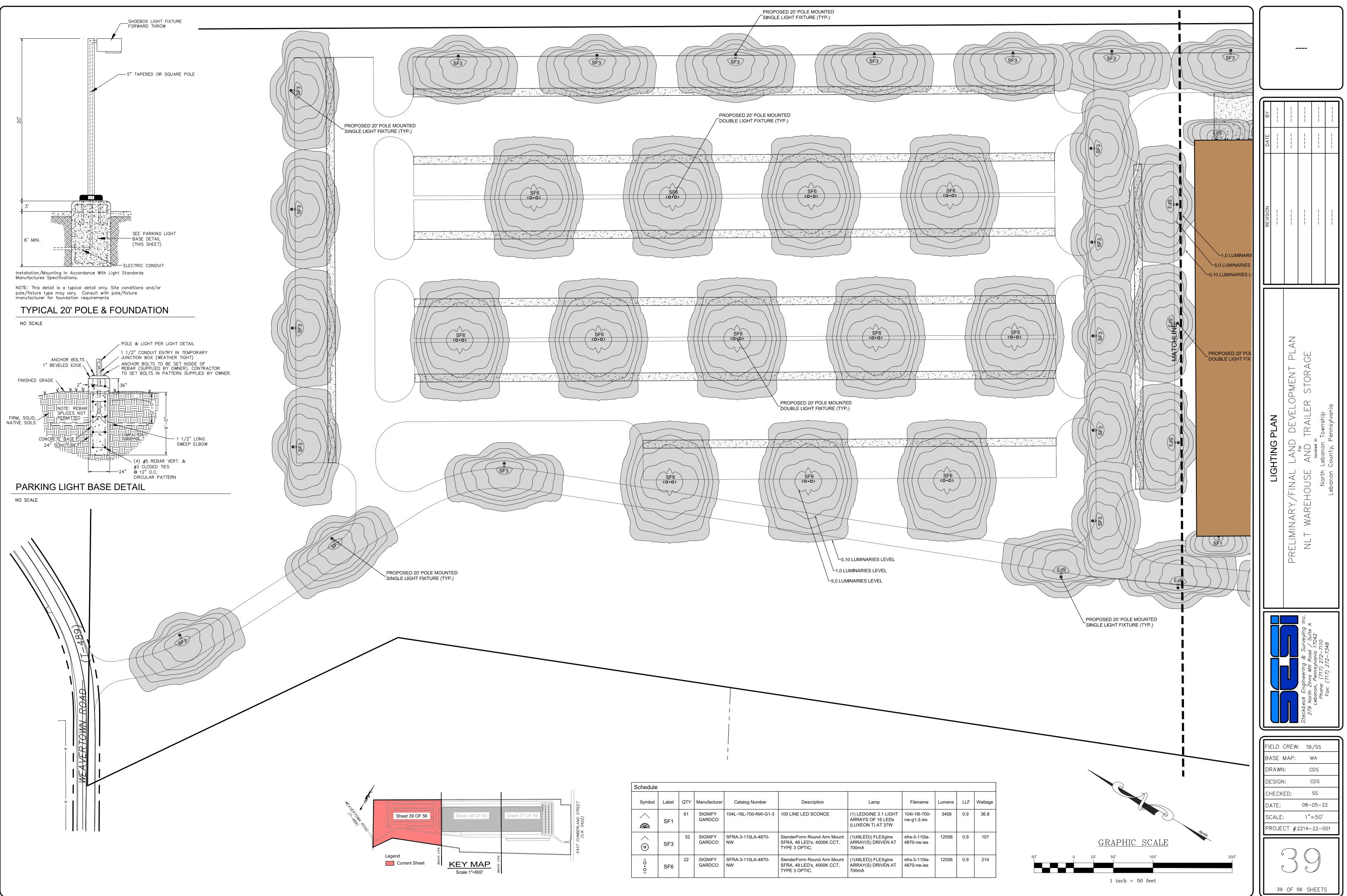




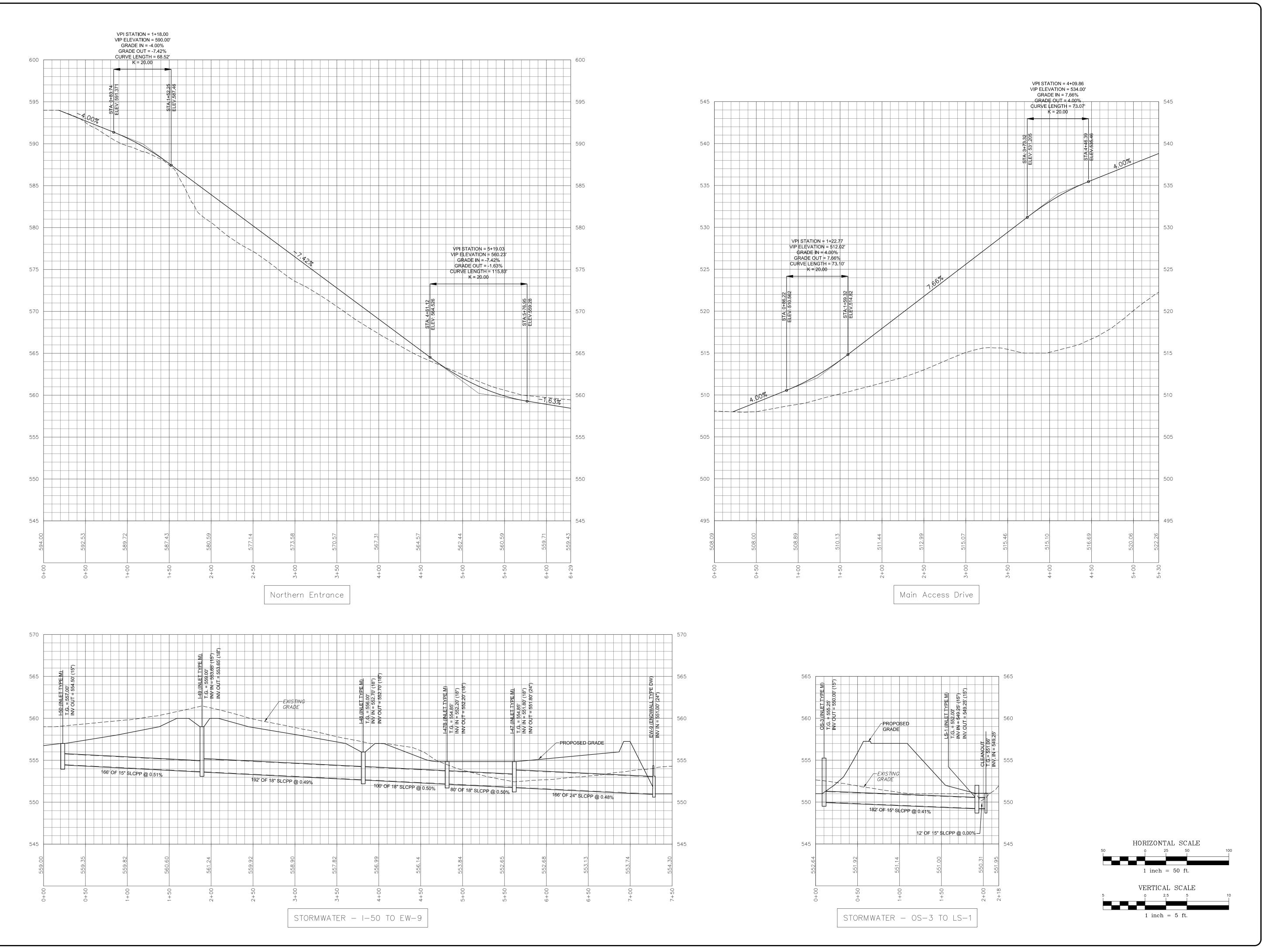




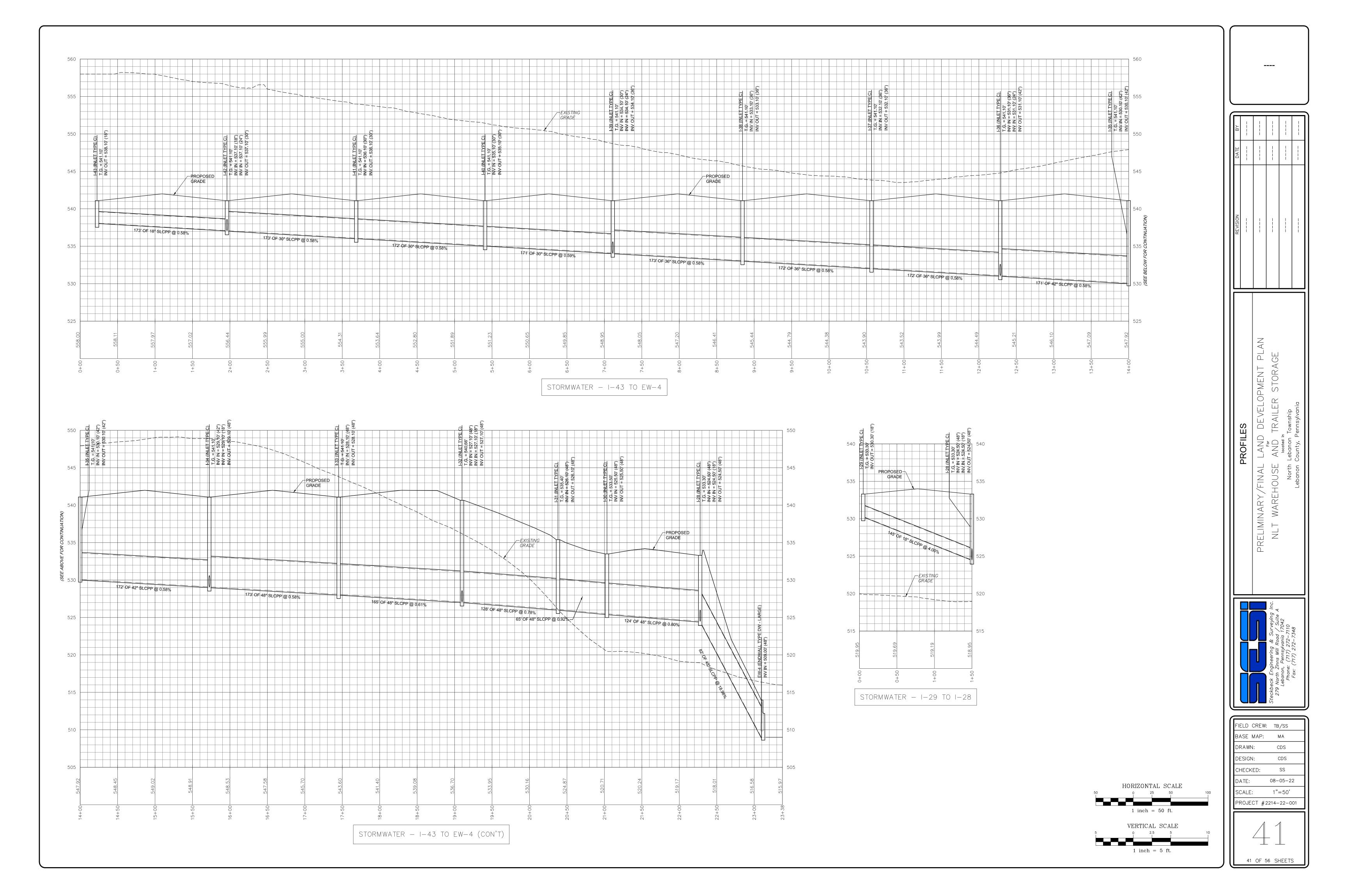
SMH RIM: 549.02	
RIM: 549.02 INV: 535.57(E) INV: 535.47(W)	

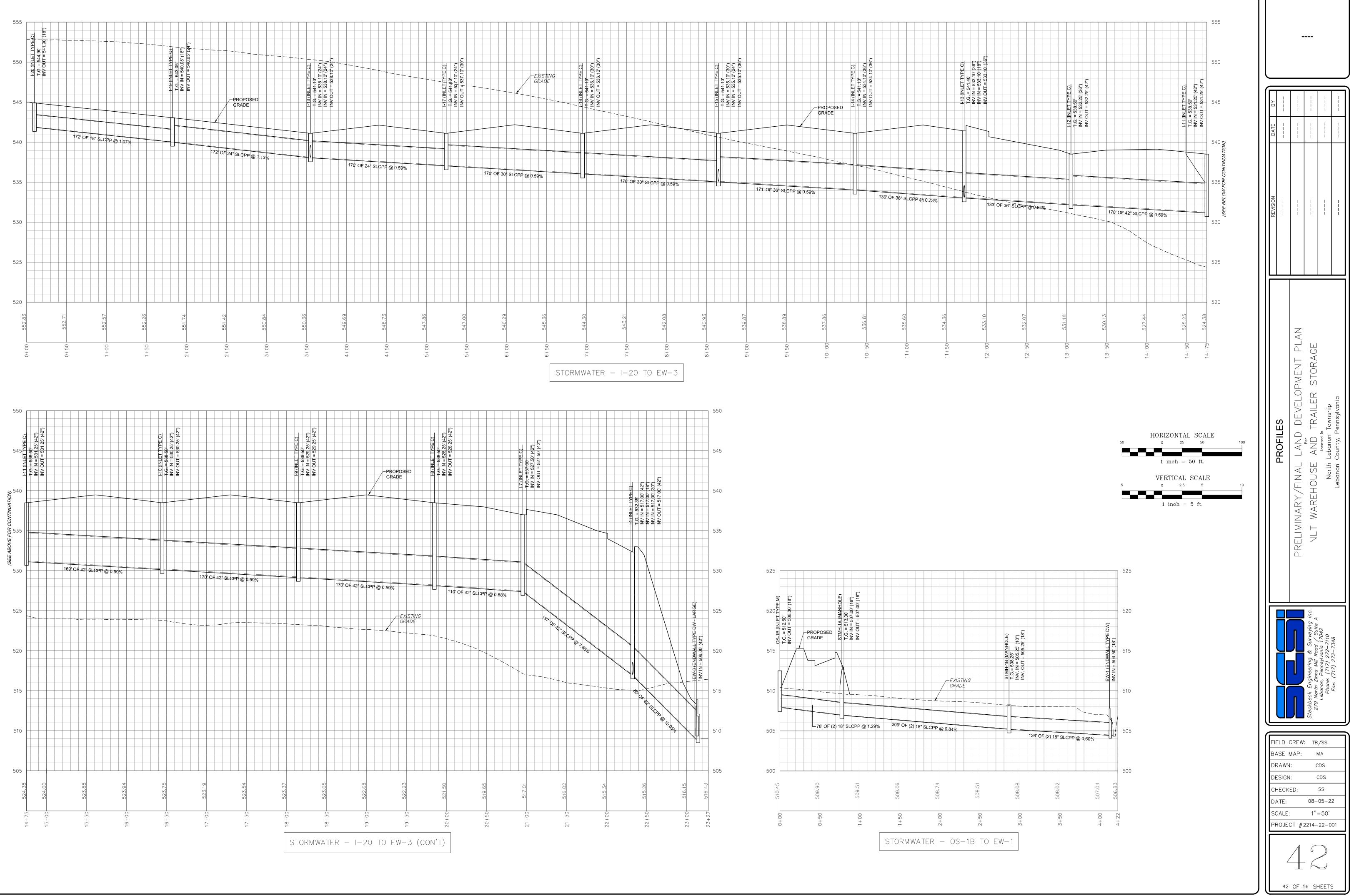


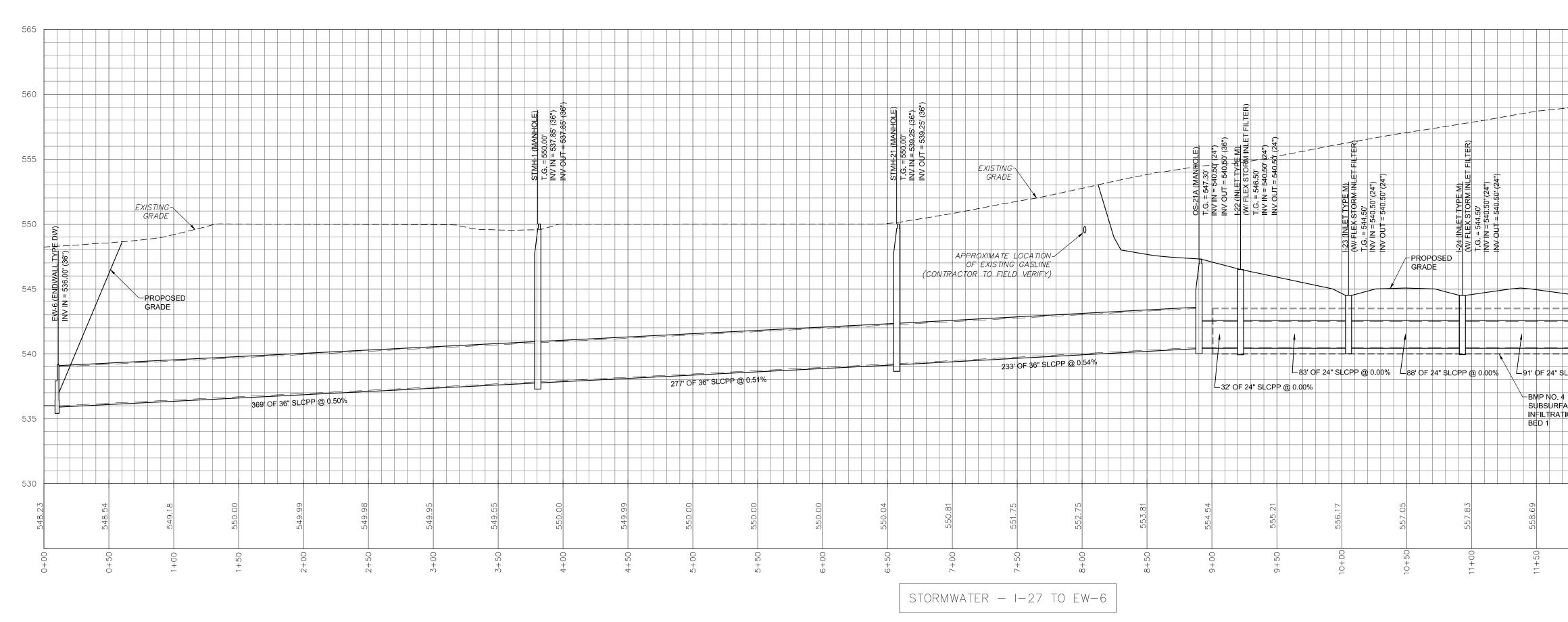
Scriedule								
Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Lamp	Filename	Lumen
\bigotimes	SF1	61	SIGNIFY GARDCO	104L-16L-700-NW-G1-3	100 LINE LED SCONCE	(1) LEDGINE 3.1 LIGHT ARRAYS OF 16 LEDs (LUXEON T) AT 37W	104I-16I-700- nw-g1-3.ies	3458
\bigcirc	SF3	52	SIGNIFY GARDCO	SFRA-3-110LA-4870- NW	SlenderForm Round Arm Mount SFRA, 48 LED's, 4000K CCT, TYPE 3 OPTIC,	(1(48LED)) FLEXgine ARRAY(S) DRIVEN AT 700mA	sfra-3-110la- 4870-nw.ies	12556
<0•0>	SF6	22	SIGNIFY GARDCO	SFRA-3-110LA-4870- NW	SlenderForm Round Arm Mount SFRA, 48 LED's, 4000K CCT, TYPE 3 OPTIC,	(1(48LED)) FLEXgine ARRAY(S) DRIVEN AT 700mA	sfra-3-110la- 4870-nw.ies	12556
		SF1 SF1 SF3	SF1 61 SF1 52 D SF3	Image: Second state	SF1 61 SIGNIFY GARDCO 104L-16L-700-NW-G1-3 Image: SF3 52 SIGNIFY GARDCO SFRA-3-110LA-4870- NW	Image: Second	SF1 61 SIGNIFY GARDCO 104L-16L-700-NW-G1-3 100 LINE LED SCONCE (1) LEDGINE 3.1 LIGHT ARRAYS OF 16 LEDS (LUXEON T) AT 37W Image: SF3 52 SIGNIFY GARDCO SFRA-3-110LA-4870- NW SlenderForm Round Arm Mount SFRA, 48 LED'S, 4000K CCT, TYPE 3 OPTIC, (1(48LED)) FLEXgine ARRAY(S) DRIVEN AT 700mA	Image: Second

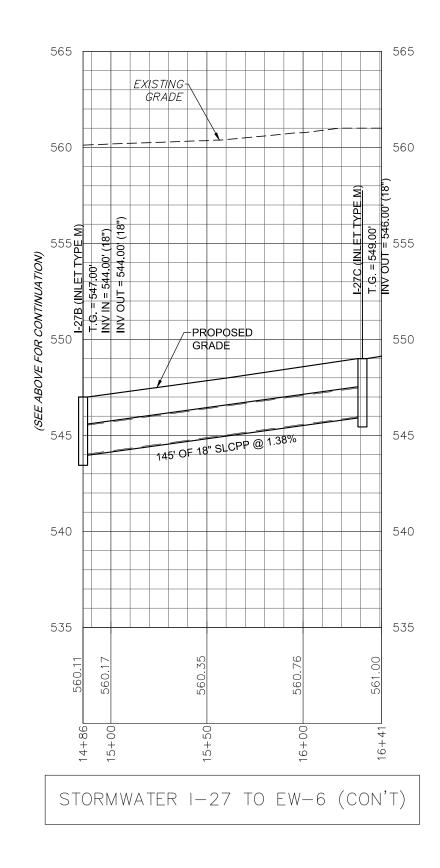


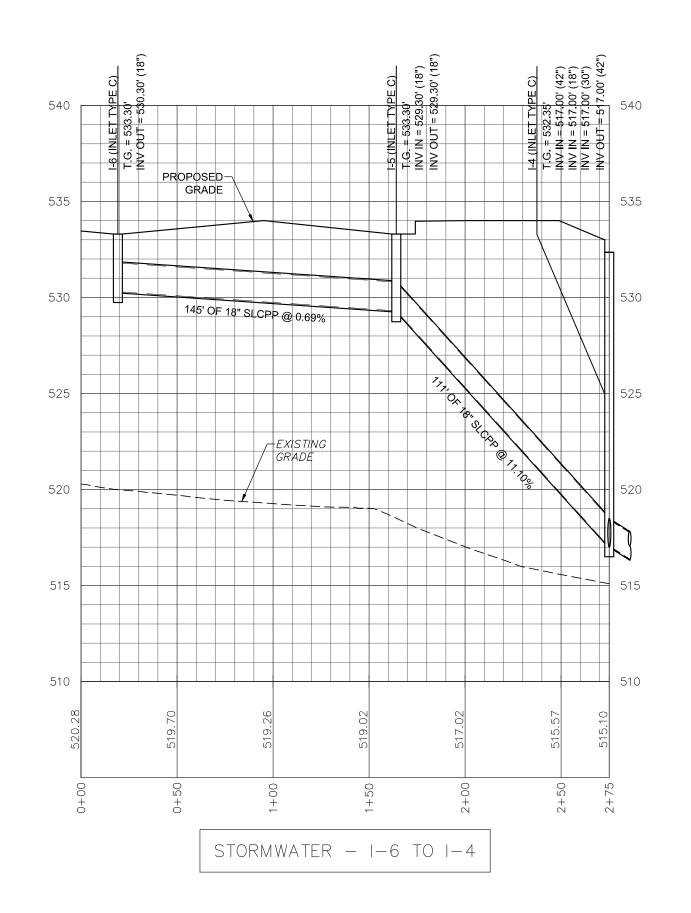


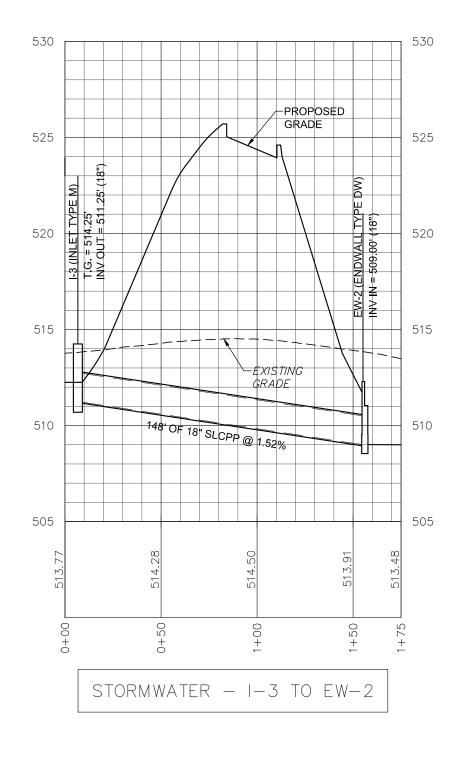


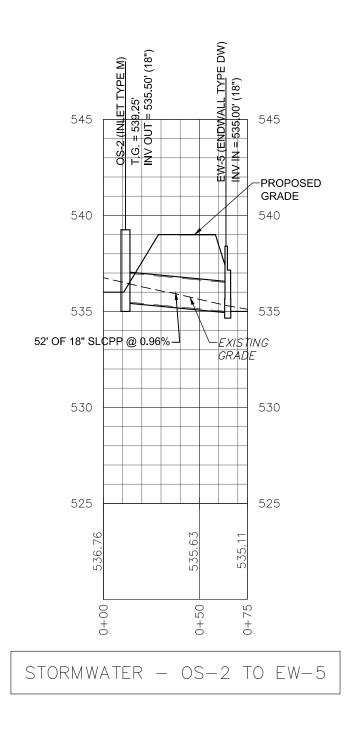


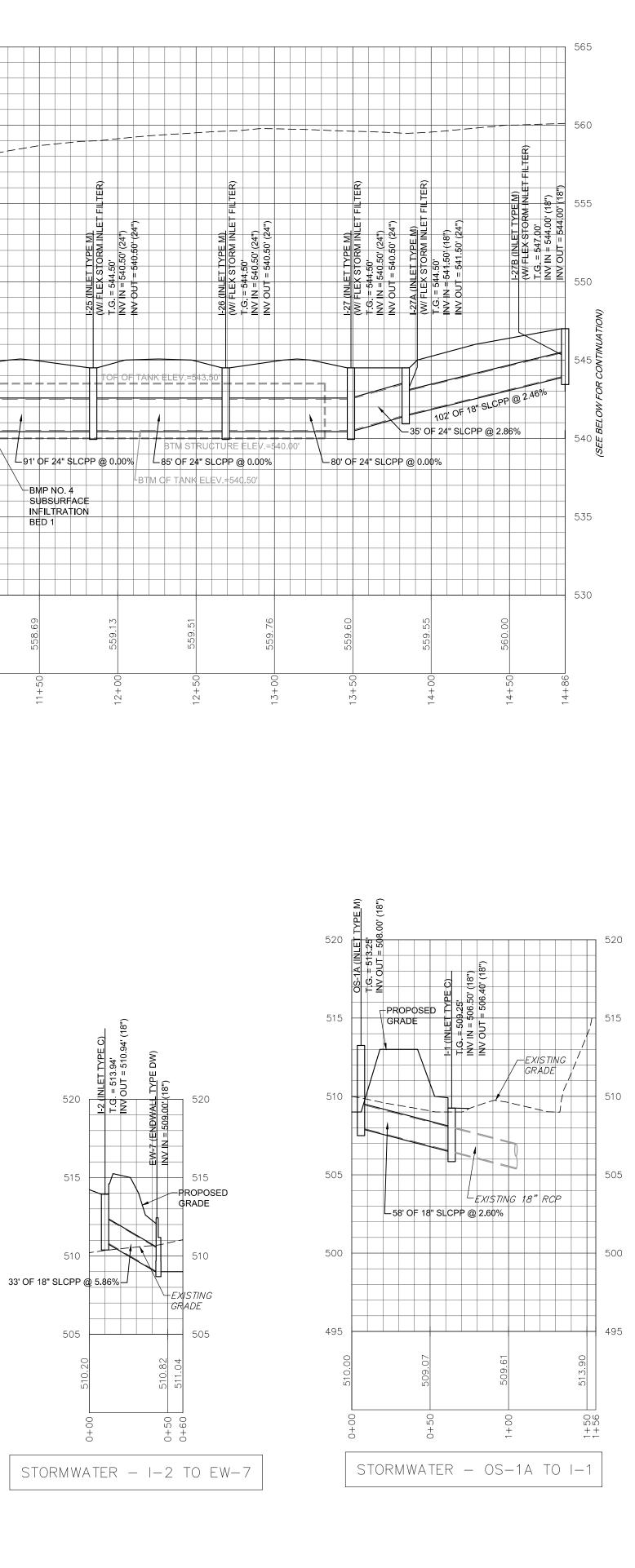














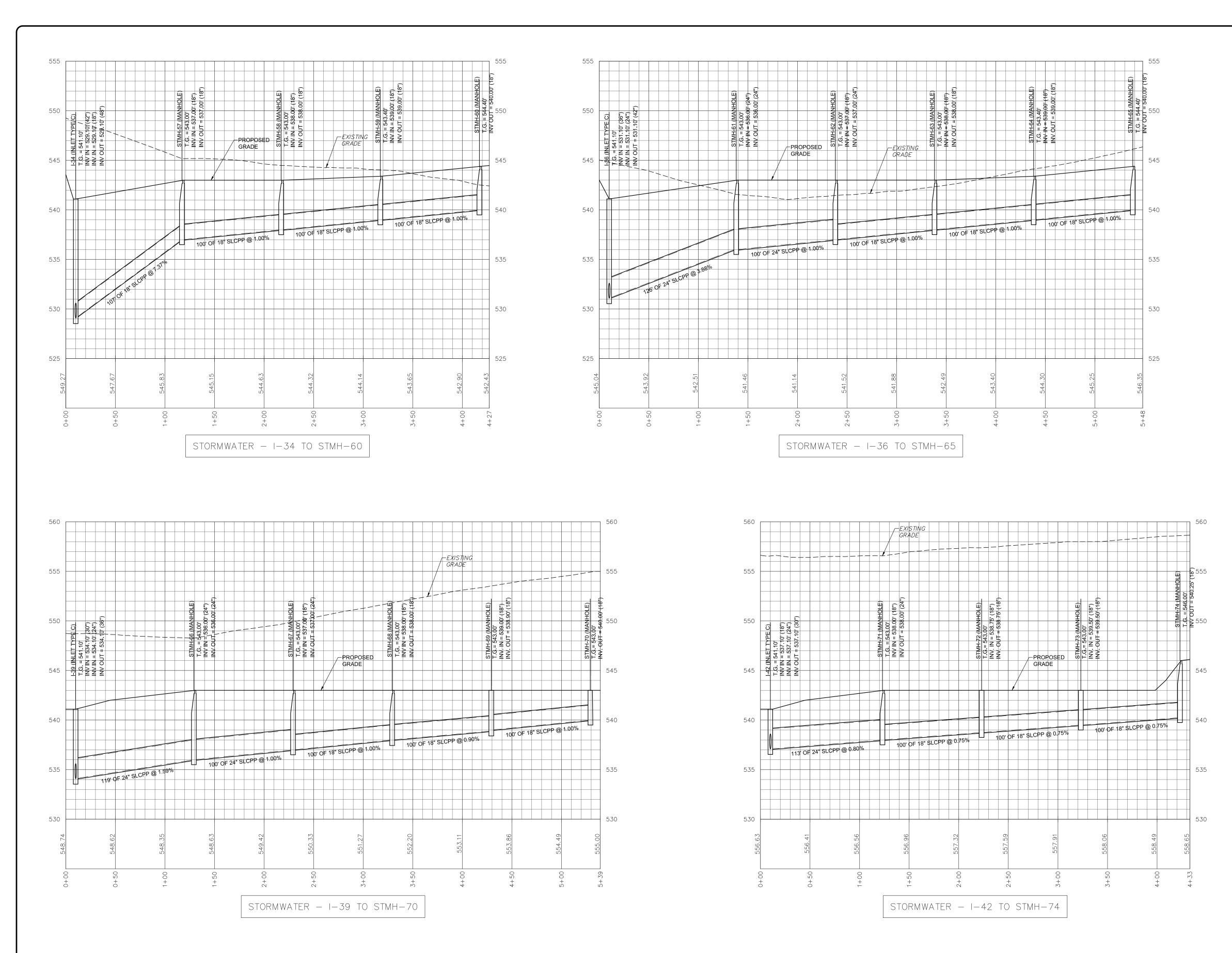
HORIZONTAL SCALE

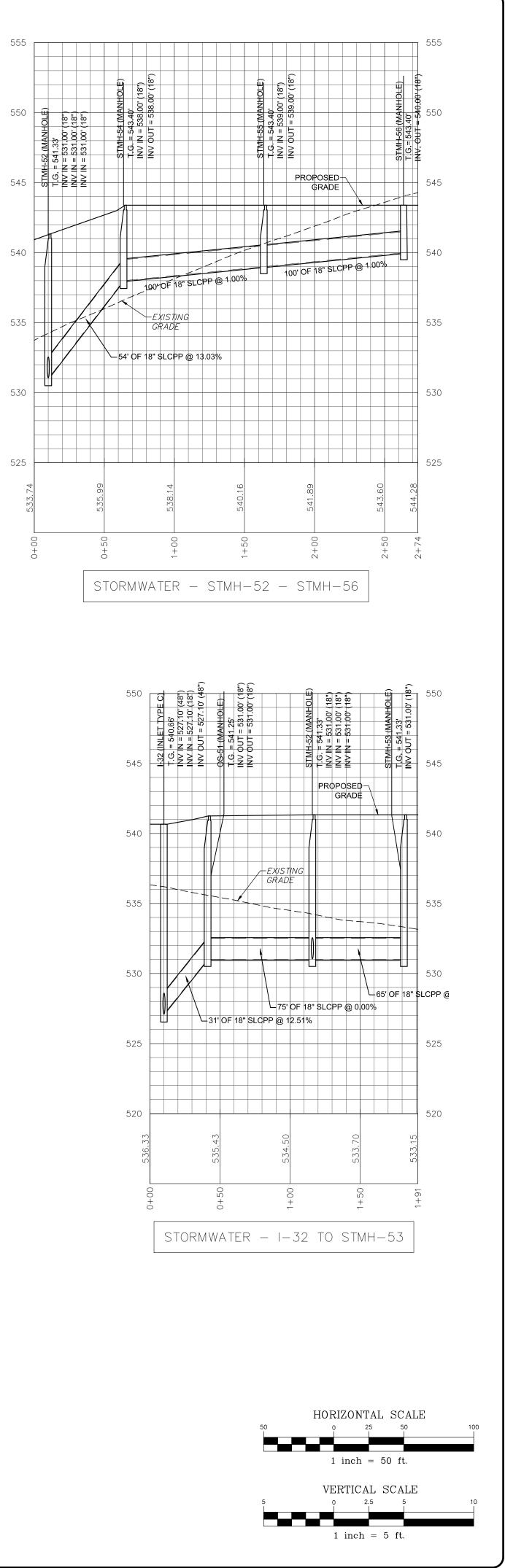
1 inch = 50 ft.

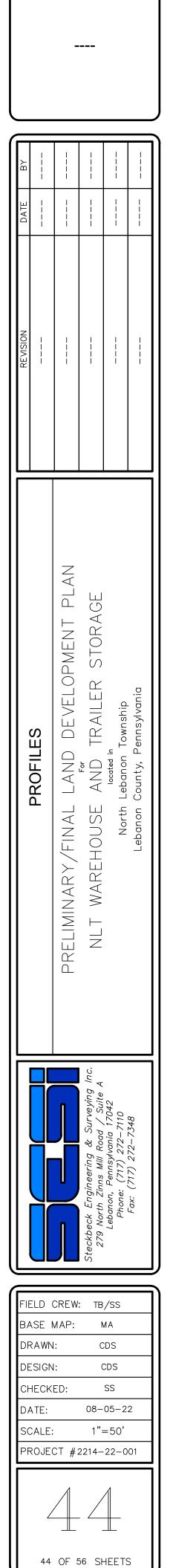
VERTICAL SCALE

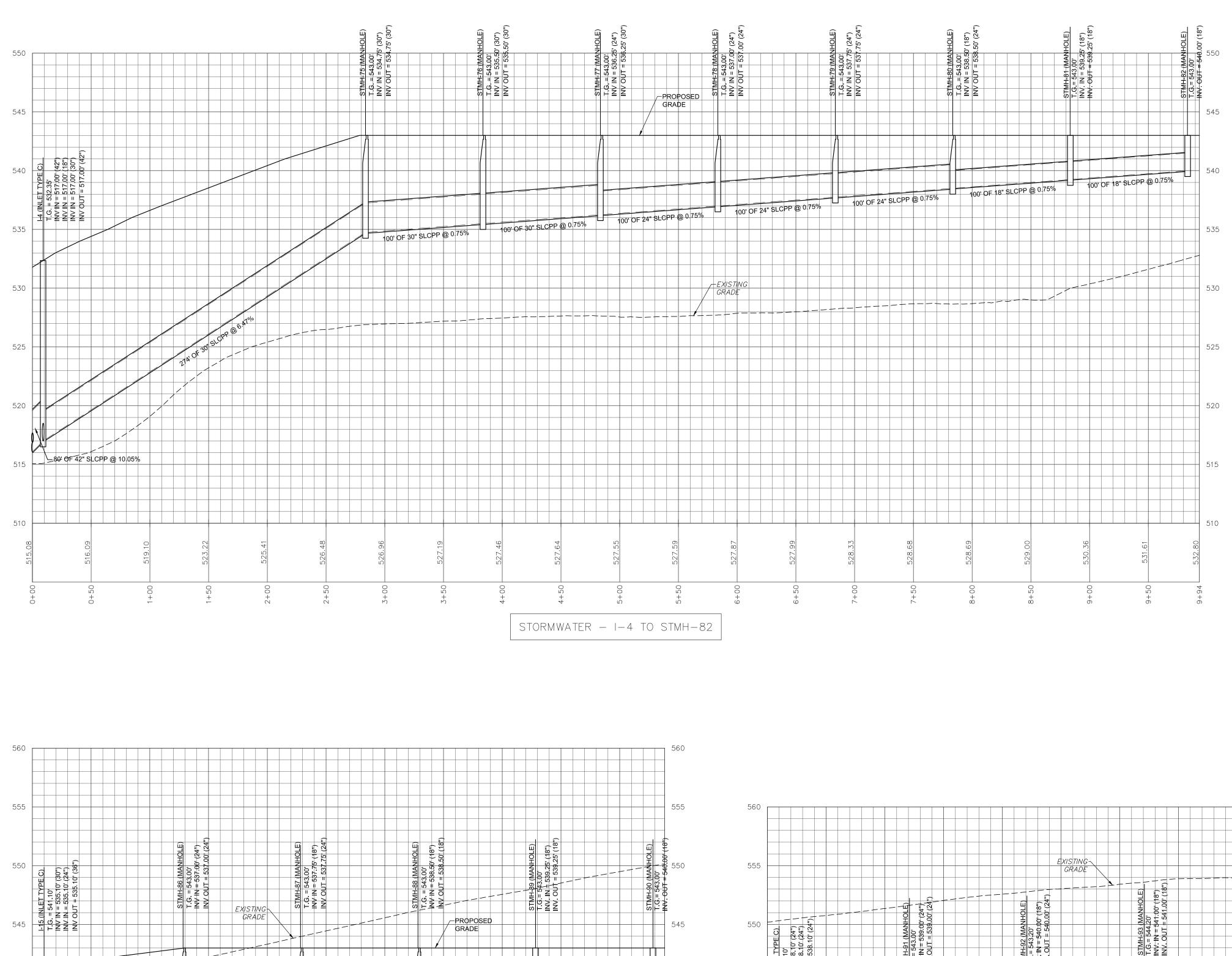
2.5

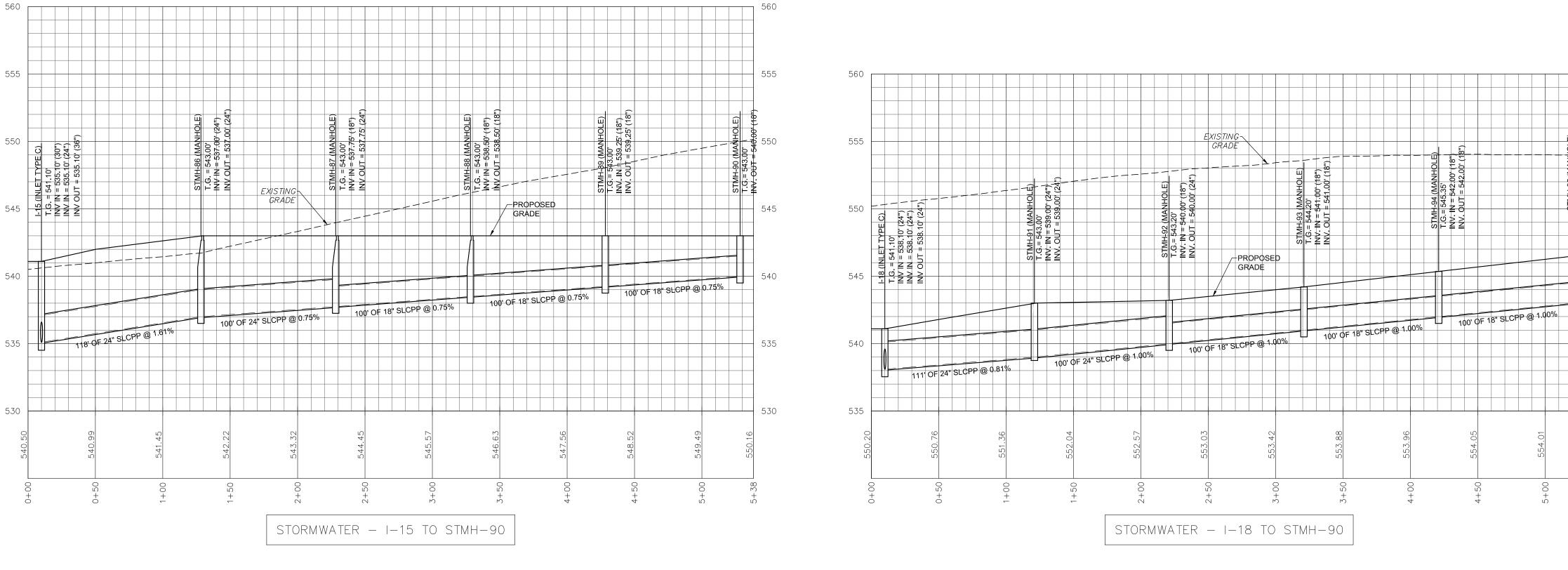
1 inch = 5 ft.

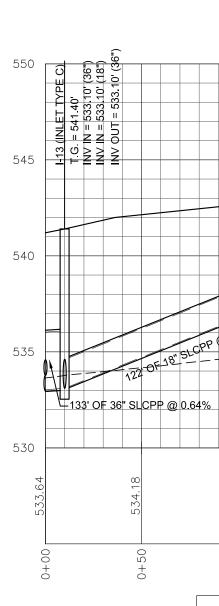


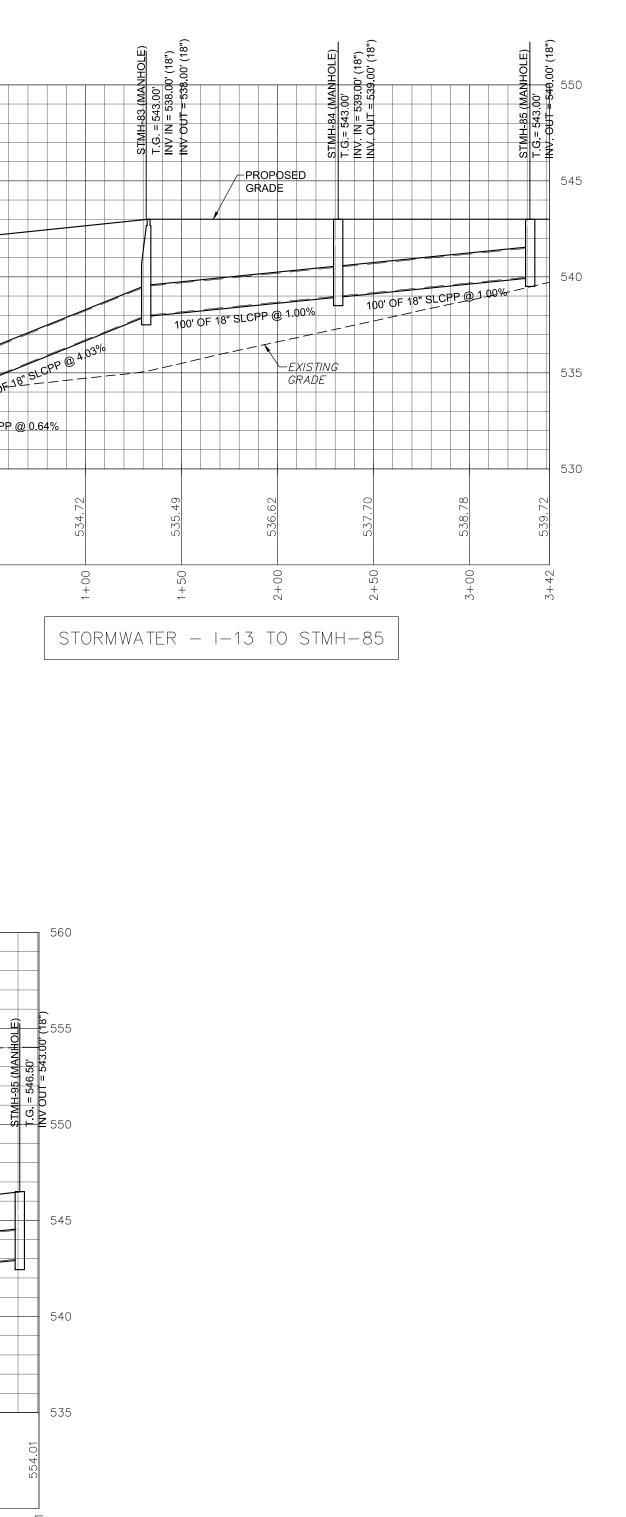












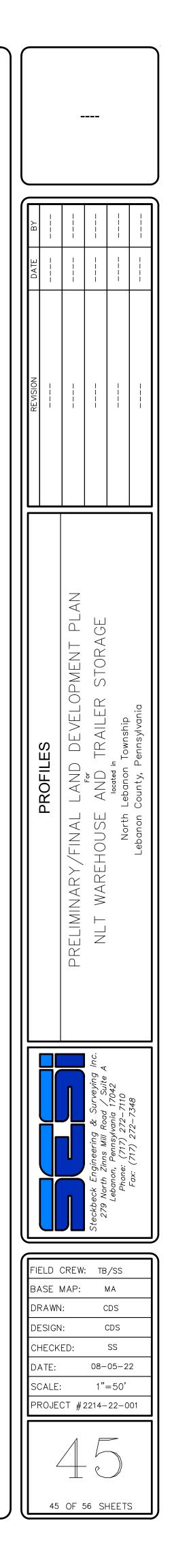
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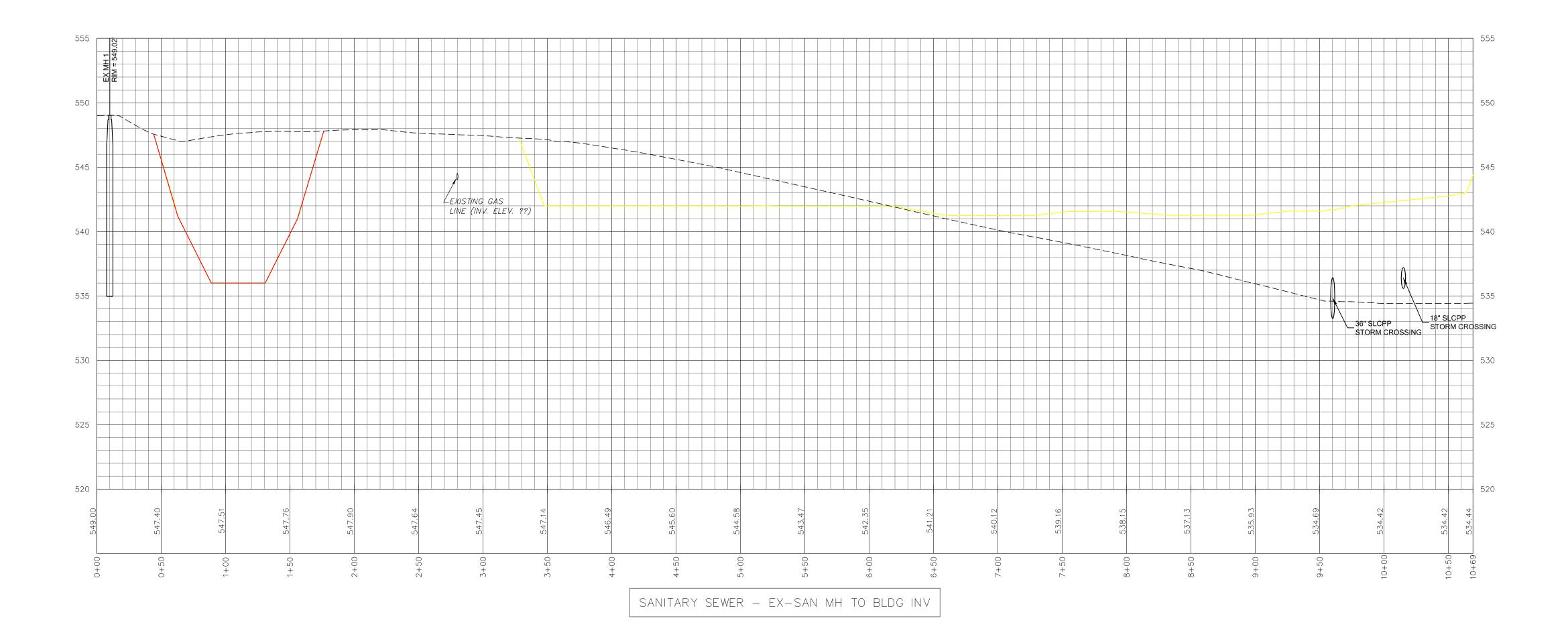
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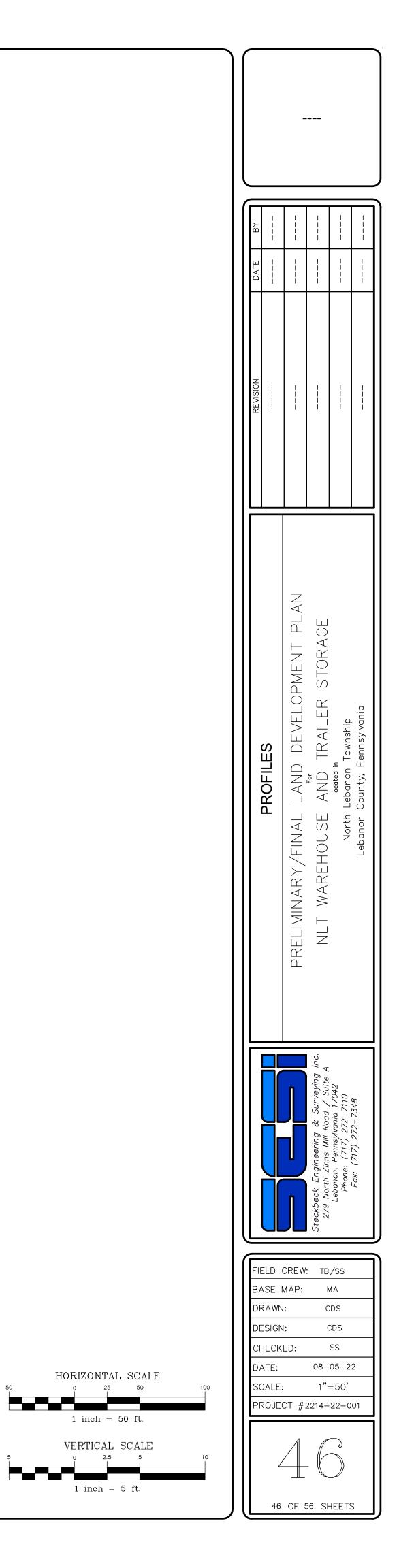
VERTICAL SCALE

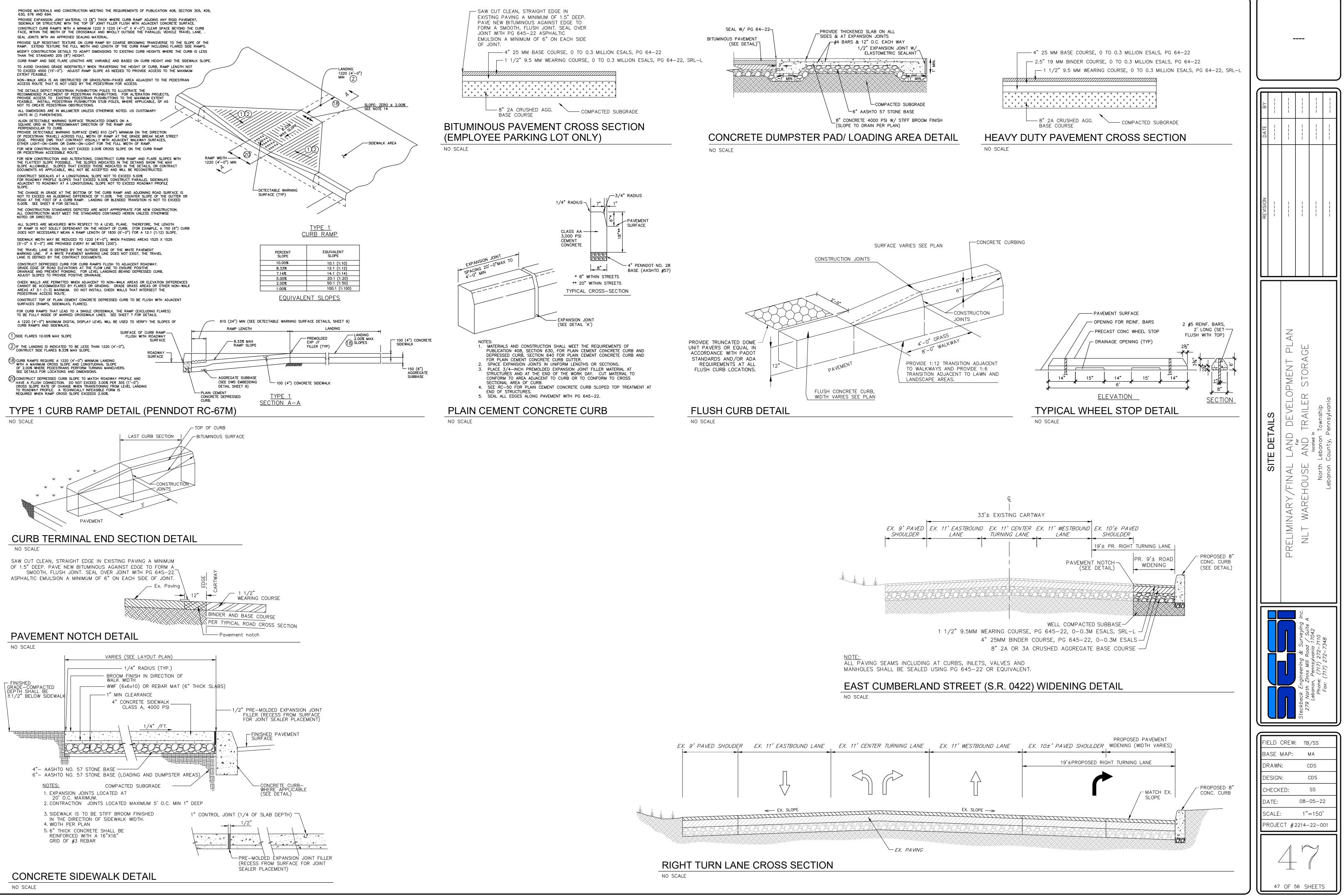
2.5

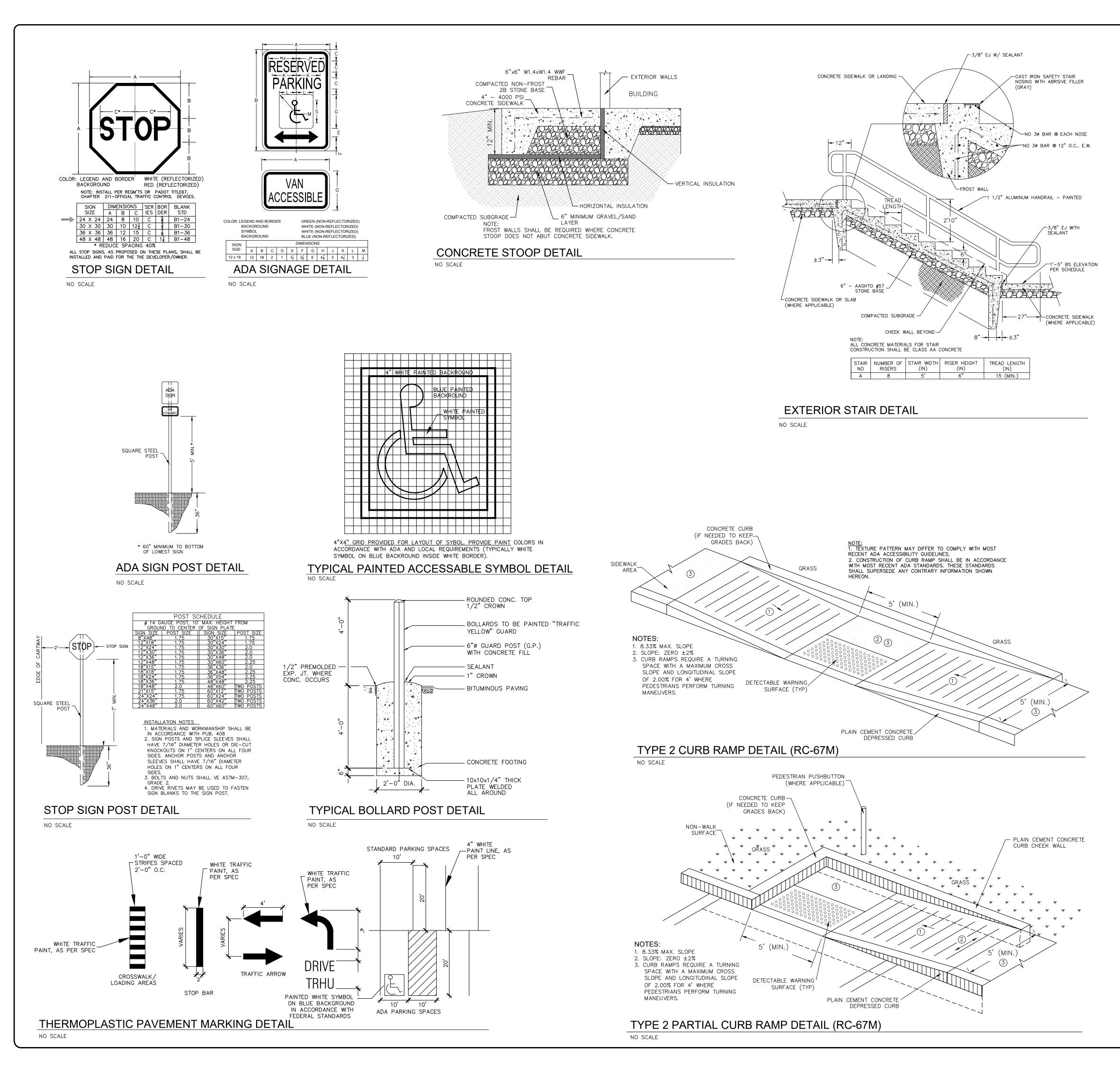
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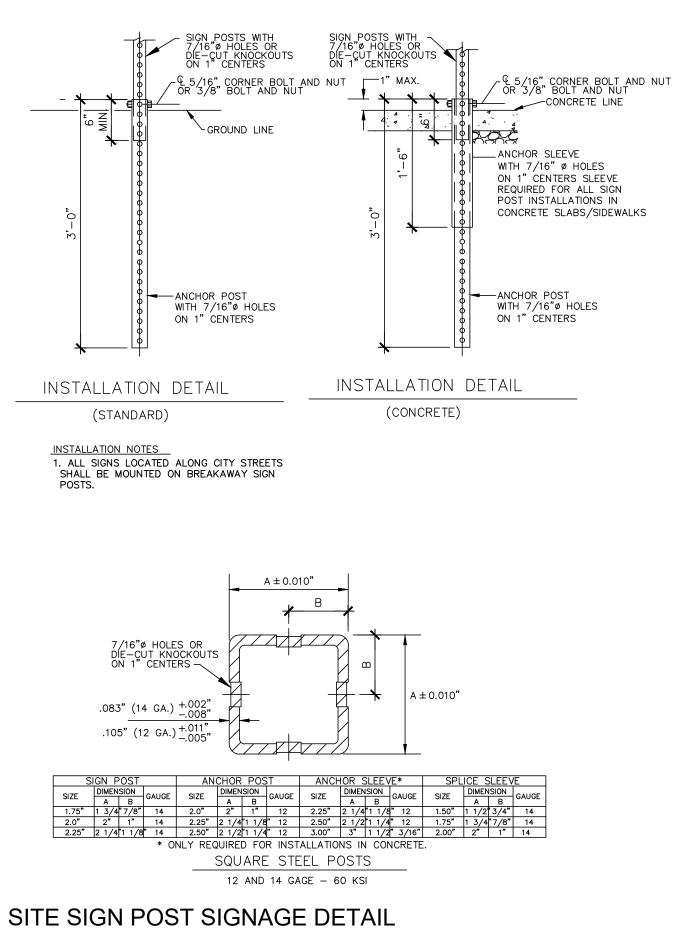




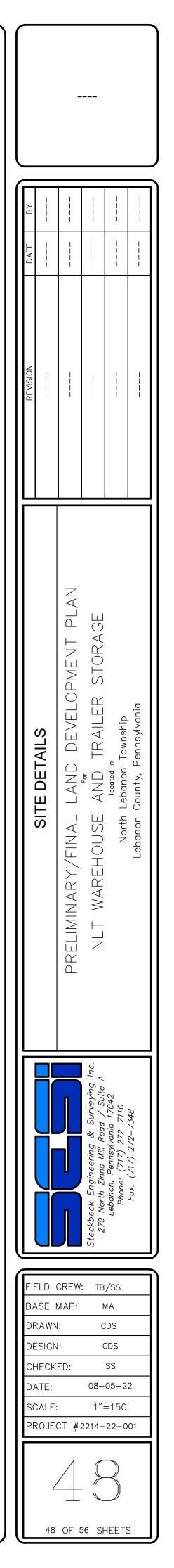


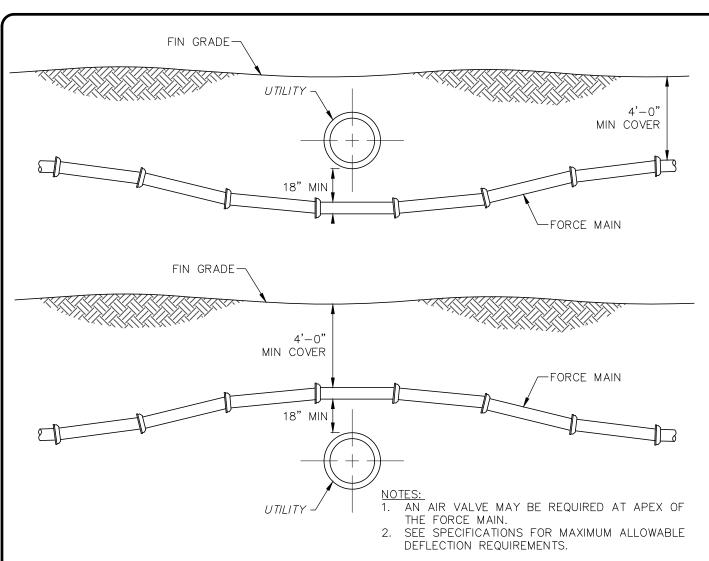


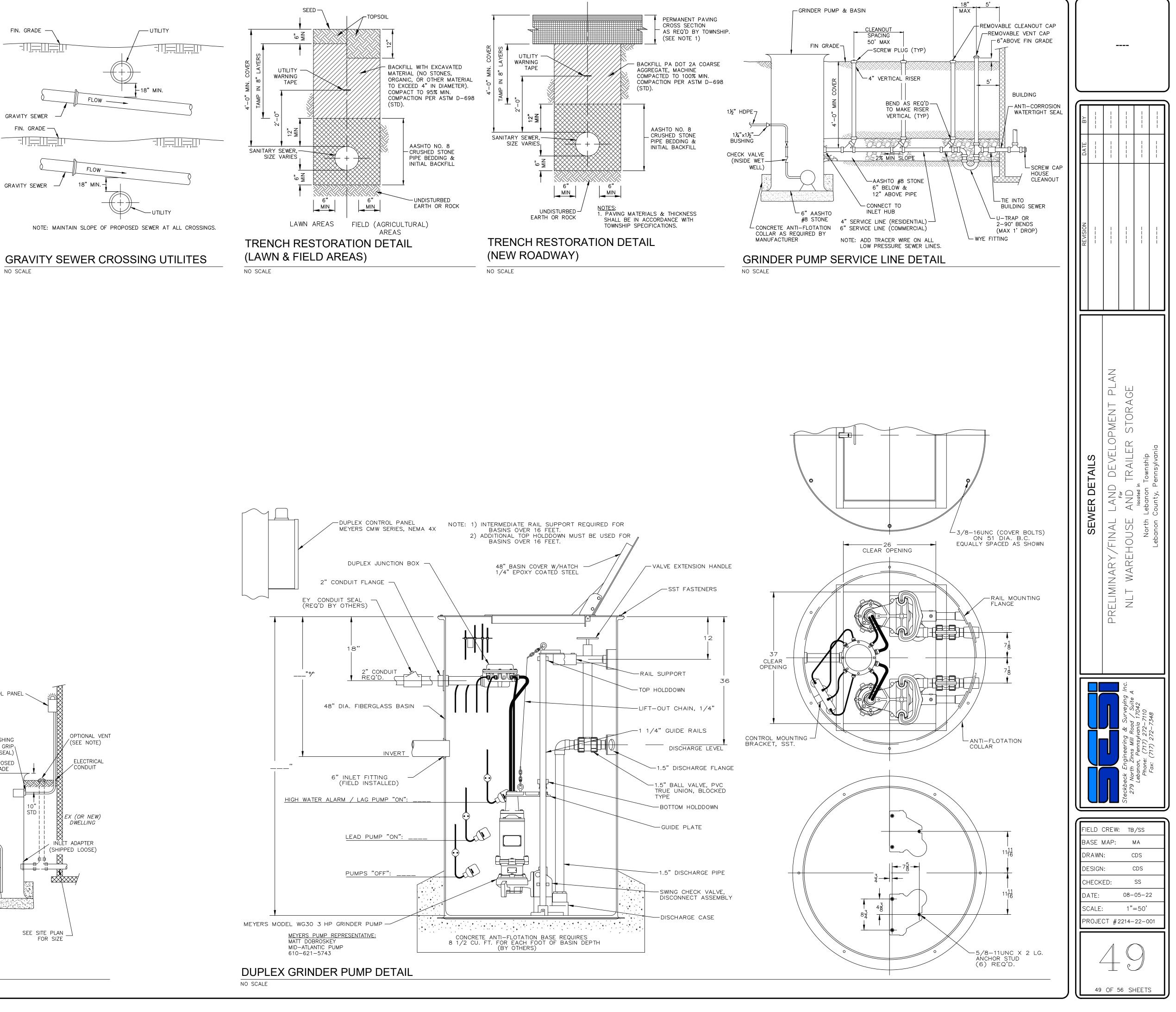




NO SCALE

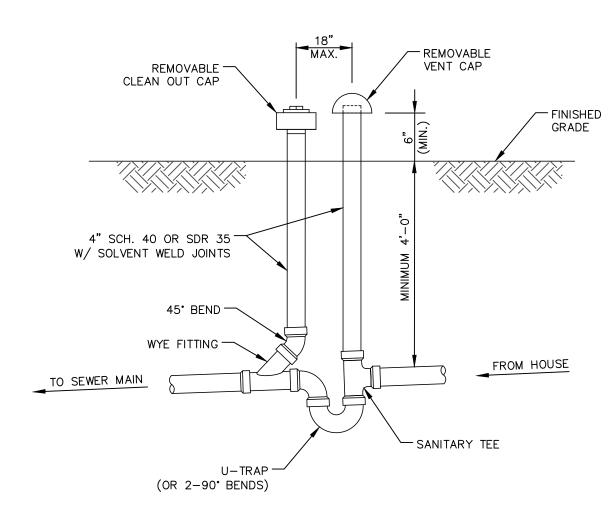




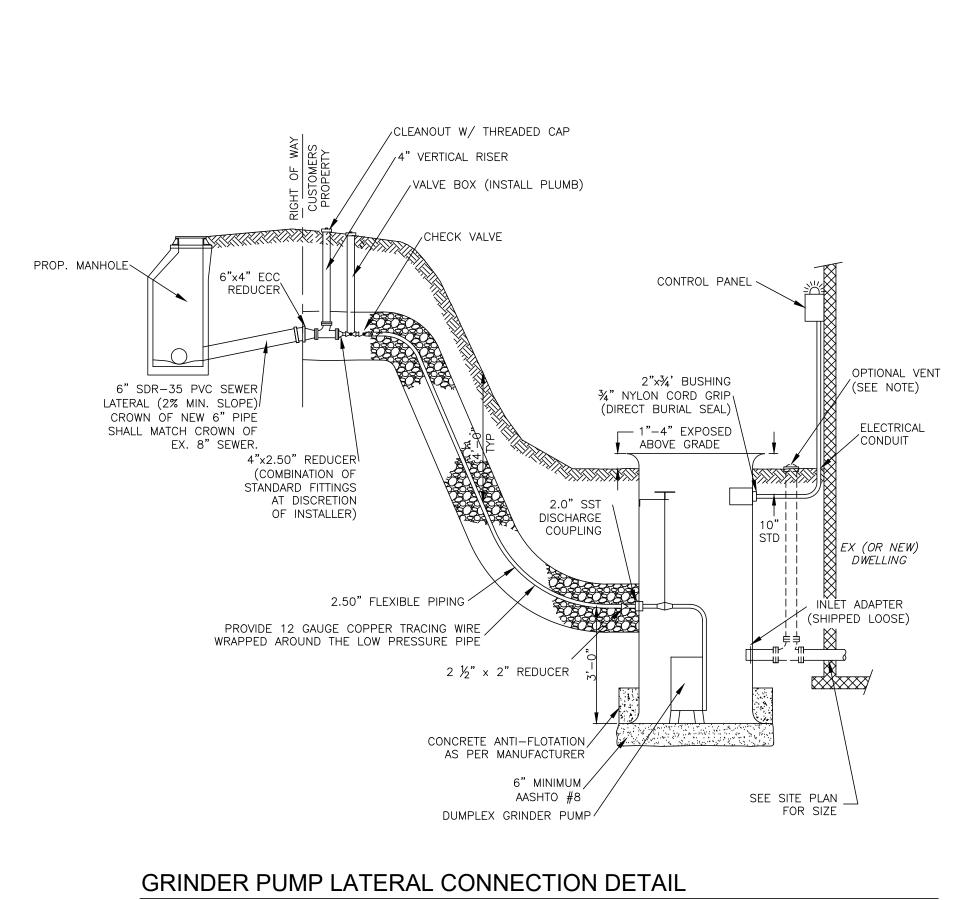


FORECE MAIN CROSSING UTILITIES

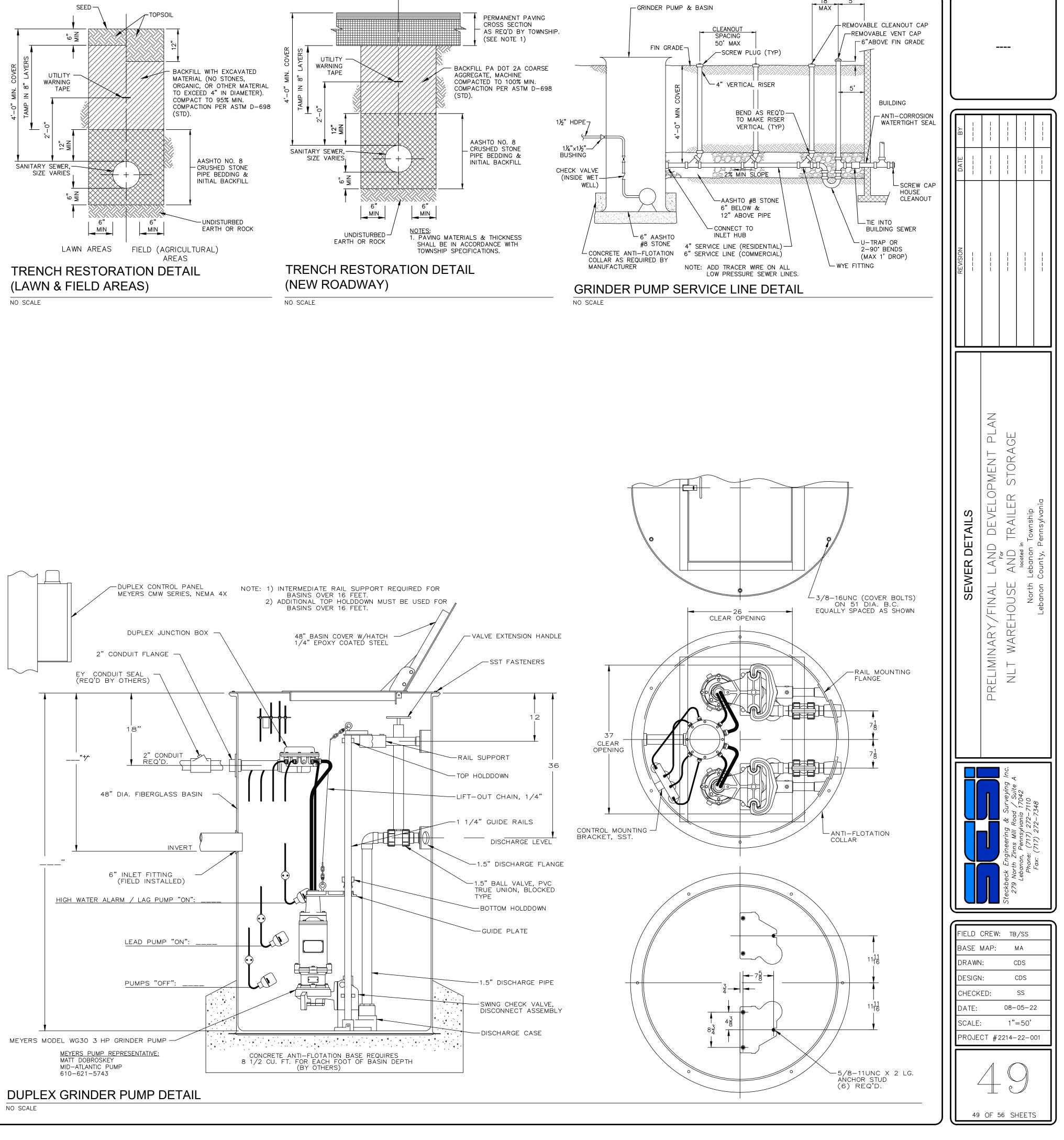
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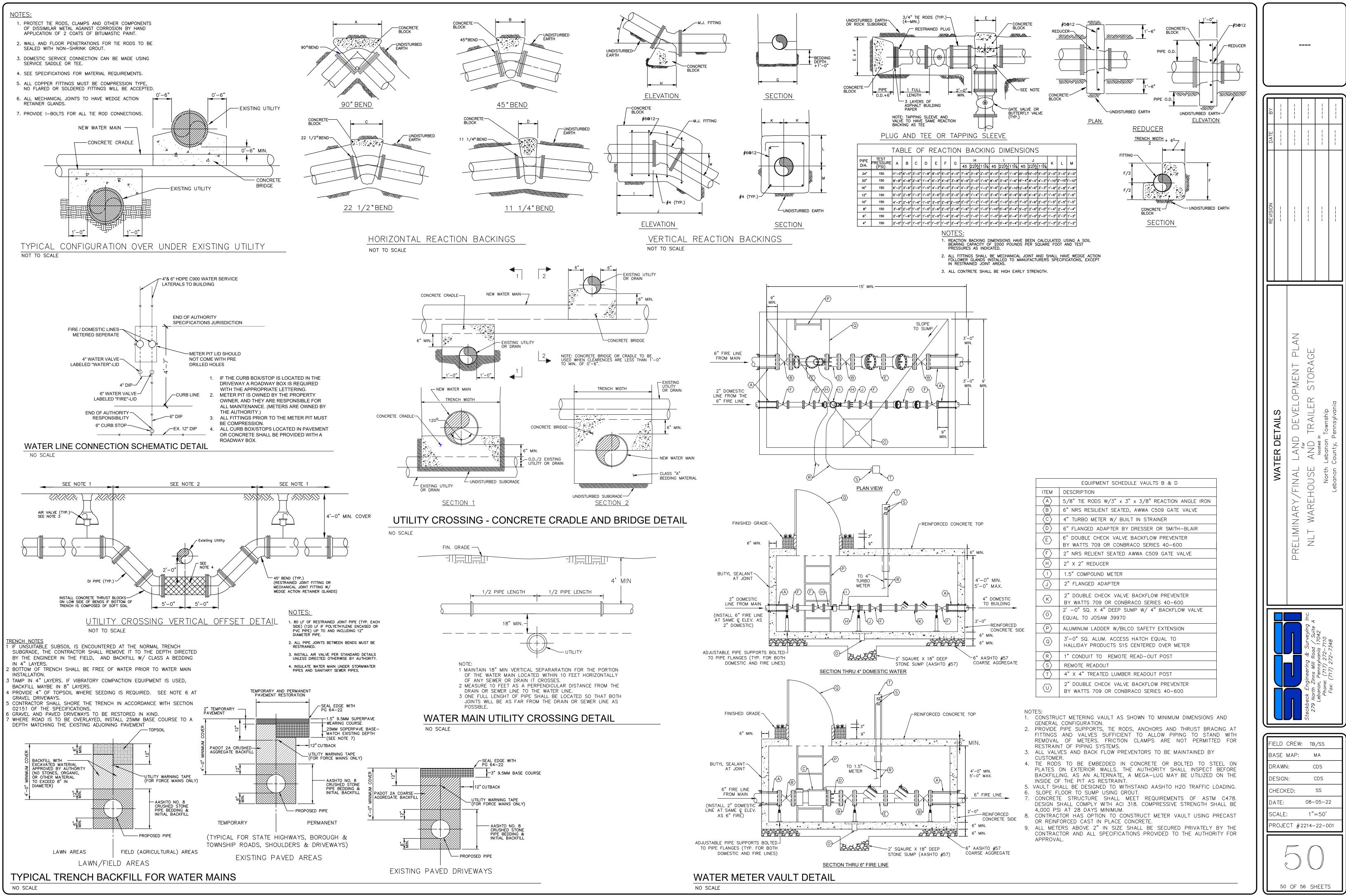


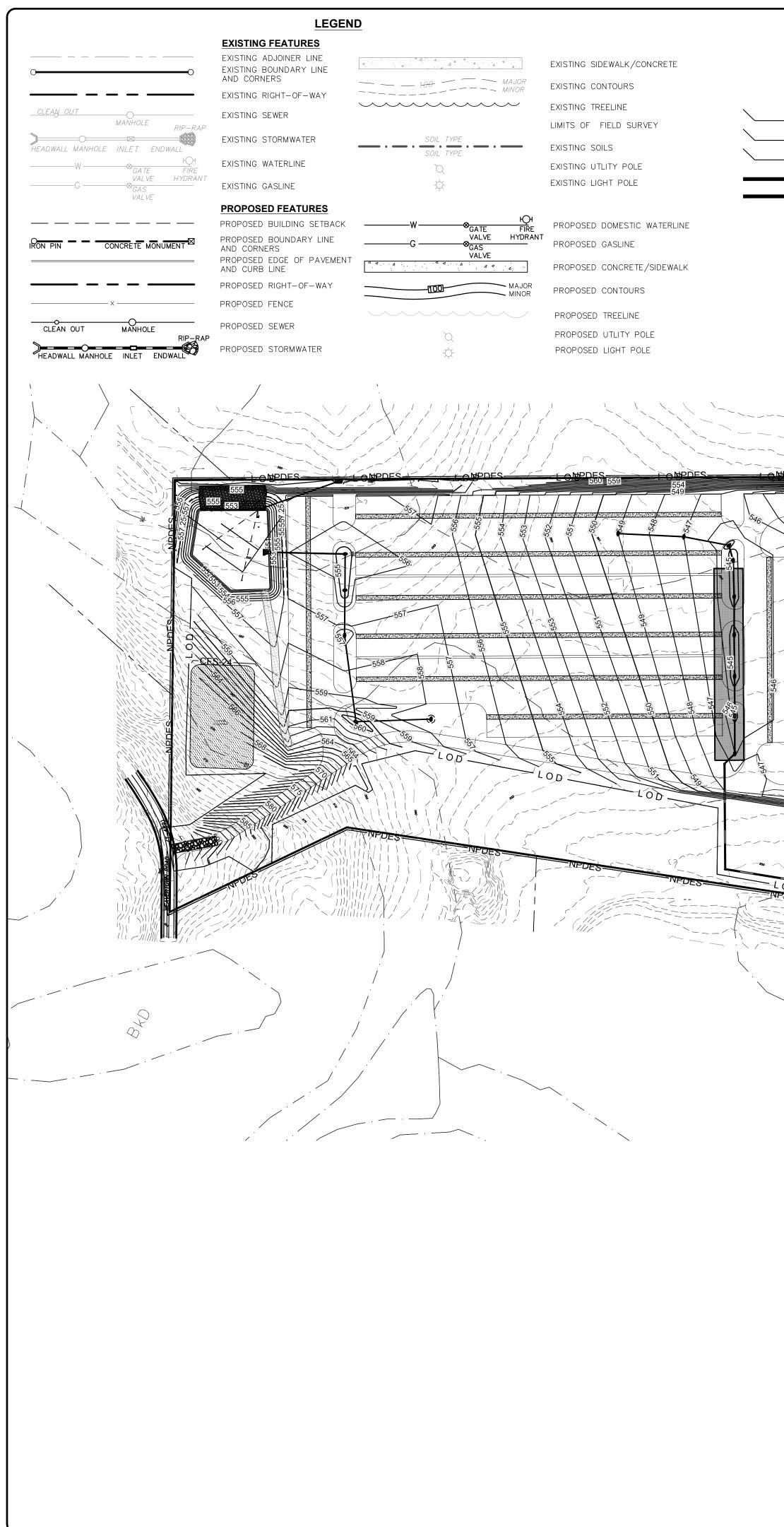
TYPICAL TRAP & VENT ASSEMBLY DETAIL NO SCALE



NO SCALE







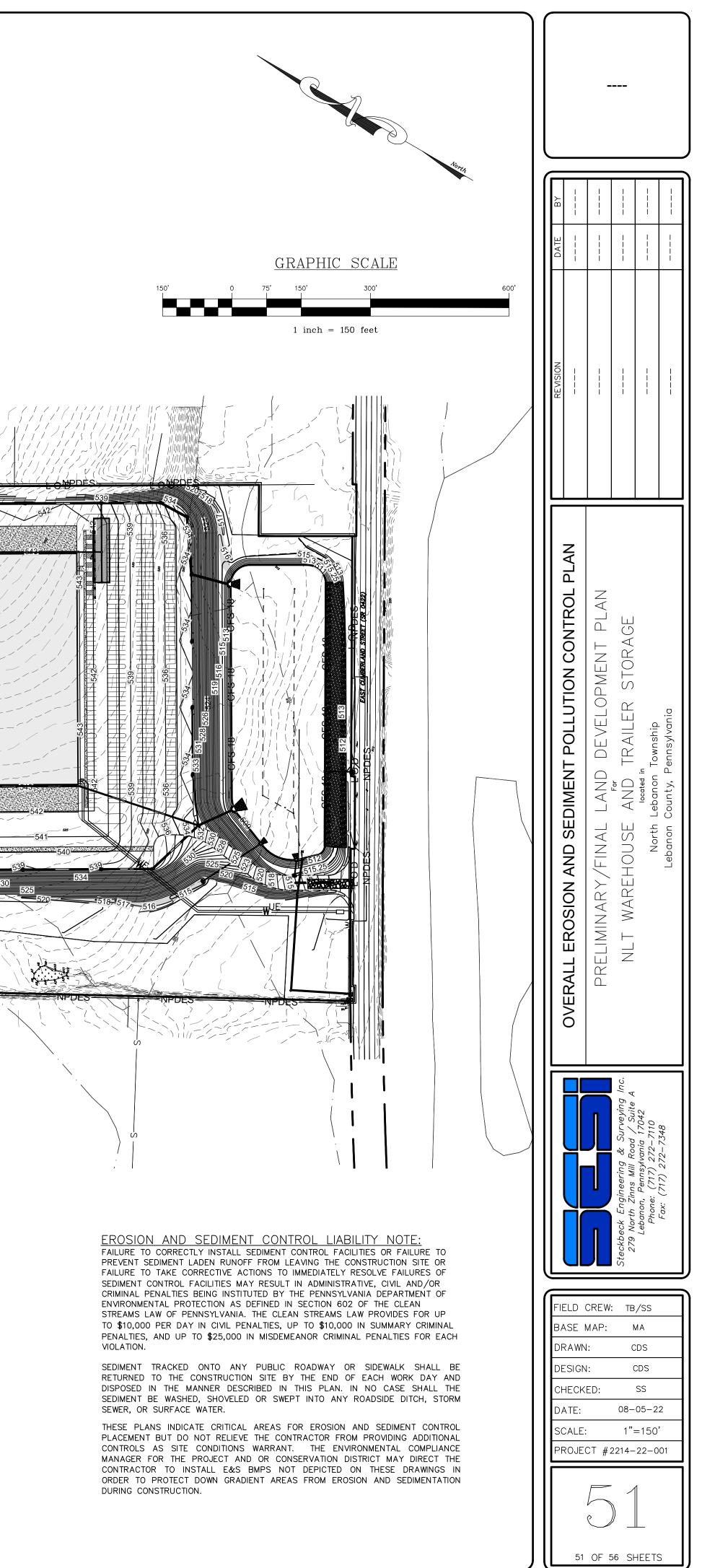
E&S LEGEND

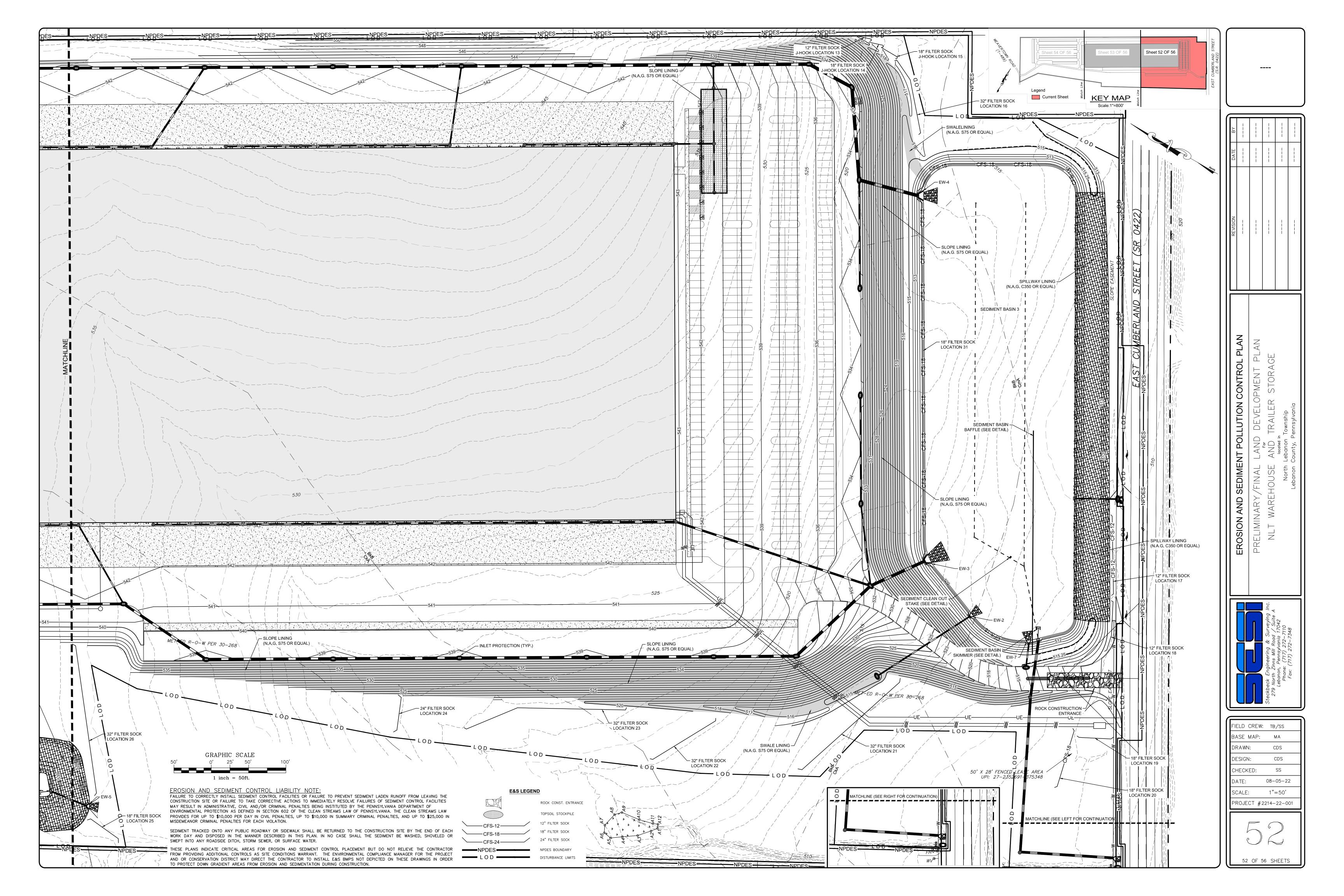
	ROCK CONST. ENTRAN
	TOPSOIL STOCKPILE
-CFS-12	12" FILTER SOCK
-CFS-18	18" FILTER SOCK
-CFS-24	24" FILTER SOCK
NPDES	NPDES BOUNDARY
	DISTURBANCE LIMITS

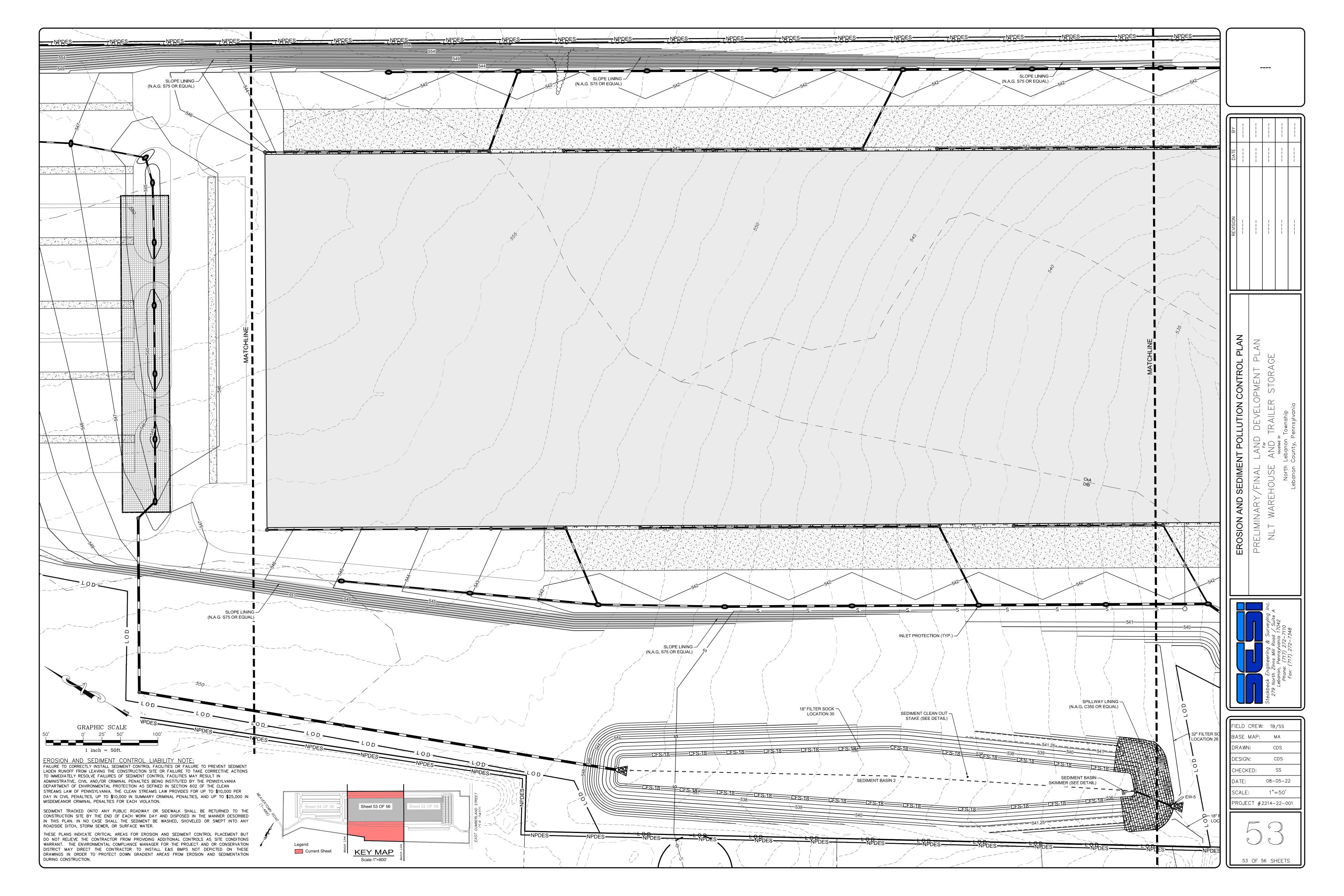
ROCK CONST. ENTRANCE
TOPSOIL STOCKPILE
12" FILTER SOCK
18" FILTER SOCK
24" FILTER SOCK

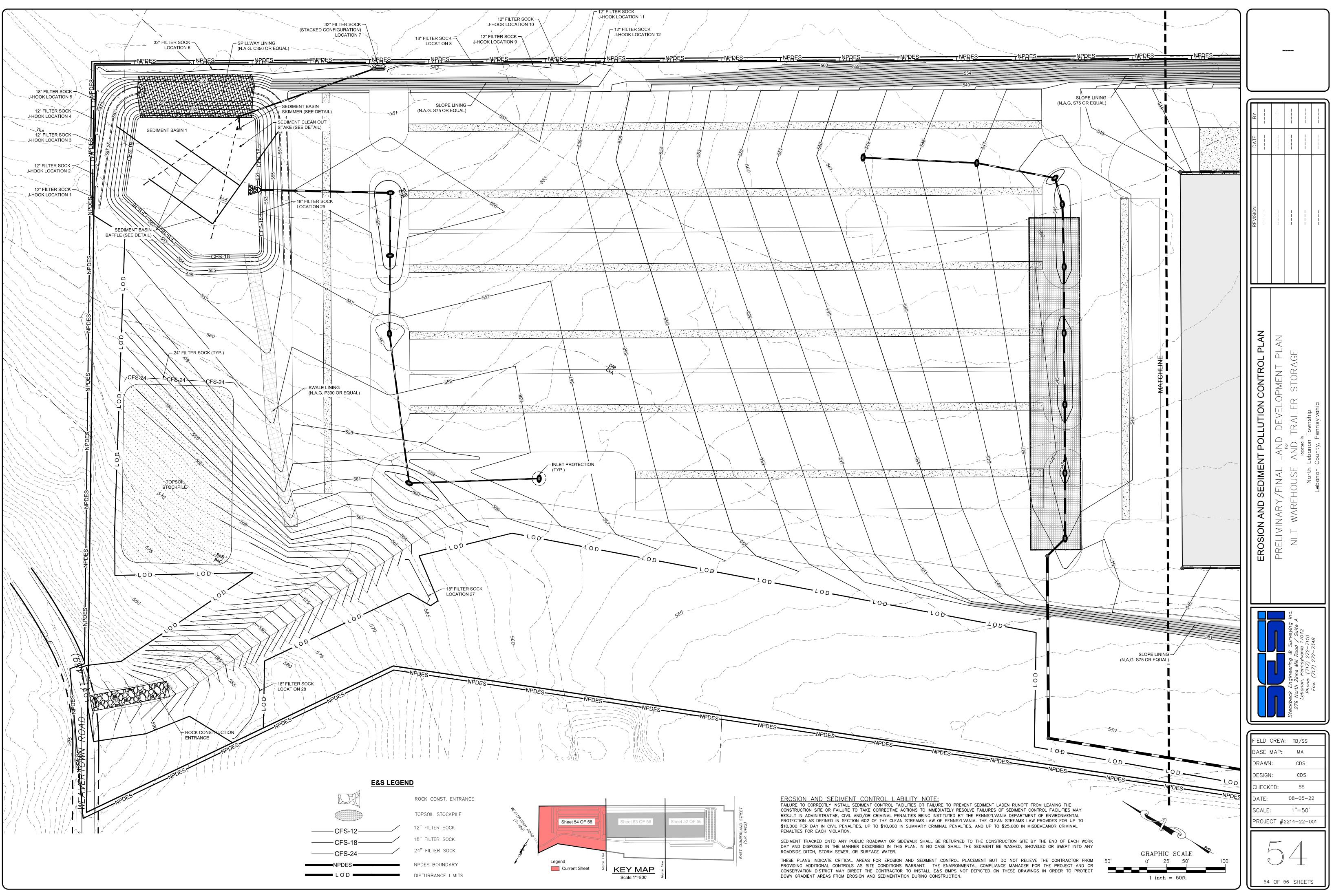
Map Symbol	Soil Name	Slope	Hydrologic Group
BeB	Bedington shaly silt loam	3–8%	В
BkB	Berks channery silt loam	3–8%	В
BkC	Berks channery silt loam	8–15%	В
BkD	Berks channery silt laom	15–25%	В
CkA	Clarksburg silt loam	0-3%	С
CmA	Comly silt loam	0-3%	С
DfB	Duffield silt loam	3–8%	В
ThA	Thorndale silt loam	0-3%	C/D
ThB	Thorndale silt loam	3–8%	C/D

	ES					ONPORS	548 546 544
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EROSION AND SEDIMENT POLLUTION CONTROL NARRATIVE NLT WAREHOUSE AND TRAILER STORAGE

THIS NARRATIVE IS INTENDED TO ACCOMPANY THE EROSION AND SEDIMENT POLLUTION CONTROL PLAN FOR • WETNESS: THE SITE MAY REQUIRE DEWATERING OF PITS DURING CONSTRUCTION, THE PROPOSED PRELIMINARY/FINAL LAND DEVELOPMENT PLAN FOR NLT WAREHOUSE AND TRAILER STORAGE, LOCATED AT 2225 E. CUMBERLAND STREET IN NORTH LEBANON TOWNSHIP, LEBANON COUNTY. THIS NARRATIVE SHALL BE CONSIDERED A PART OF THE EROSION AND SEDIMENT POLLUTION CONTROL PLAN.

PROJECT DESCRIPTION

THE TOTAL TRACT OF PROPERTY IN QUESTION IS APPROXIMATELY 89.79 ACRES. THE TOTAL SITE AND EARTH DISTURBANCE AS PART OF THIS PROJECT IS 80.74 ACRES. THE CURRENT SITE CONSISTS OF OPEN AGRICULTURAL FIELDS. BASED ON GOOGLE EARTH HISTORICAL IMAGERY, THE SITE HAS BEEN AGRICULTURAL SINCE THE EARLY 1990'S. BASED ON PENN PILOT HISTORICAL IMAGERY, THE SITE HAS BEEN AGRICULTURAL IN USE SINCE THE 1940S. THE SITE IS BORDERED TO THE NORTH BY WEAVERTOWN ROAD AND A RESIDENTIAL PROPERTY. TO THE WEST BY RESIDENTIAL PROPERTIES, COMMERCIAL PROPERTIES, AND THE UNION CANAL ELEMENTARY SCHOOL, TO THE EAST BY A RESIDENTIAL PROPERTY, COMMERCIAL PROPERTY, AND AGRICULTURAL FIELD, AND TO THE SOUTH BY EAST CUMBERLAND STREET (SR 0422). PROPOSED IMPROVEMENTS INCLUDE THE CONSTRUCTION OF A 1.000,000 SQUARE FOOT WAREHOUSE, EMPLOYEE PARKING SPACES, TRAILER STORAGE PARKING SPACES, ACCESS DRIVES, CONNECTION TO PUBLIC SEWER AND WATER, AND ASSOCIATED STORMWATER MANAGEMENT FACILITIES. THE ANTICIPATED SITE DISTURBANCE SHALL INCLUDE GRADING AS WELL AS ADDITIONAL IMPERVIOUS AREA WHICH WILL BE TREATED ON-SITE BY STORMWATER MANAGEMENT BMPS. TWO (2) ABOVE GROUND INFILTRATION BASINS, TWO (2) SUBSURFACE INFILTRATION BEDS, AND ONE (1) MRC BASIN ARE PROPOSED TO MANAGE THE SITE RUNOFF. STORMWATER RUNOFF FROM THE SITE WILL REACH THE TULPEHOCKEN CREEK WHICH IS DESIGNATED AS COLD WATER FISHES (CWF). THE TULPEHOCKEN CREEK IS IMPAIRED ACCORDING TO CATEGORY 5 OF THE PA INTEGRATED WATER QUALITY MONITORING AND ASSESSMENT REPORT FOR AQUATIC LIFE: EROSION FROM DERELICT LAND - SILTATION, 6.FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES. AQUATIC LIFE: AGRICULTURE - SILTATION, AND RECREATIONAL: SOURCE UNKNOWN - PATHOGENS.

THERMAL IMPACTS ANALYSIS ALL EXISTING SITE RUNOFF CURRENTLY LEAVES THE SITE UN-DETAINED WITH NO TREATMENT OF THIS RUNOFF IN ANY WAY. STRUCTURAL BMPS ARE PROPOSED TO TREAT THE MAJORITY OF THE DISTURBED SITE AND PROPOSED IMPERVIOUS AREAS. RUNOFF REACHING THE TWO (2) INFILTRATION BASINS WILL BE COOLED BY THE NATIVE VEGETATION IN THE BASIN BOTTOM BEFORE BEING INFILTRATED THROUGH THE ENGINEERED SOIL MIX AND INTO THE GROUND. RUNOFF REACHING THE TWO (2) SUBSURFACE INFILTRATION BEDS WILL BE COOLED NATURALLY BY BEING DETAINED BENEATH THE GROUND AND AWAY FROM SUNLIGHT BEFORE BEING INFILTRATED INTO THE GROUND. RUNOFF REACHING THE MRC BASIN WILL BE COLED BY THE NATIVE VEGETATION IN THE TEMPORARY AND PERMANENT EROSION CONTROL FACILITIES WERE DESIGNED IN ACCO BASIN BOTTOM BEFORE BEING FILTERED THROUGH TWO FEET OF AMENDED SOILS AND SLOWLY RELEASED STANDARDS ESTABLISHED IN THE EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM THROUGH THE UNDERDRAIN SYSTEM. TREES ARE ALSO PROPOSED IN AND AROUND THE PAVED AREAS TO BUREAU OF WATERWAYS ENGINEERING AND WETLANDS, MARCH 2012). SHADE A PORTION OF THESE AREAS WHICH WILL PROVIDE TEMPERATURE RELIEF FOR RUNOFF THAT FLOWS OVER THE IMPERVIOUS SURFACES.

DOWNSTREAM WATERCOURSE ANALYSIS THE FOLLOWING IS AN EXCERPT FROM THE PA DEP FAQ SHEET LABELED CHAPTER 102 OFF-SITE DISCHARGES OF STORMWATER TO NON-SURFACE WATERS (JANUARY 2, 2019). FAQ #2 STATES, "PERSONS PROPOSING TO DISCHARGE MUST HAVE THE LEGAL AUTHORITY TO DISCHARGE THEIR STÖRMWATER EITHER THROUGH EITHER A COMMON LAW EASEMENT OR AN EXPRESS EASEMENT. FOR SITES THAT DISCHARGE TO EXISTING SWALES, DITCHES. STORM SEWERS OR SIMILAR STRUCTURES WHERE THE NEW ACTIVITIES WILL NOT RESULT IN A CHANGE IN VOLUME OR RATE OF STORMWATER RUNOFF (FOR ALL STORM EVENTS), THE EXISTING COMMON LAW EASEMENT COULD BE RELIED UPON.'

THE SITE DISCHARGES TO ALL DISCHARGE POINTS IN A SIMILAR MANNER AT A RATE THAT IS LESS THAN PRE-DEVELOPMENT FOR ALL STORM EVENTS. DISCHARGE POINT 001 (DP 001) IS LOCATED AT A LOW SPOT ALONG THE EASTERN PROPERTY LINE. RUNOFF

WILL DISCHARGE OVERLAND FOR APPROXIMATELY 970 FEET PRIOR TO REACHING THE TULPEHOCKEN CREEK. DISCHARGE POINT 002 (DP 002) IS LOCATED AT A LOW SPOT ALONG THE EASTERN PROPERTY LINE. RUNOFF WILL DISCHARGE OVERLAND FOR APPROXIMATELY 960 FEET PRIOR TO REACHING THE TULPEHOCKEN CREEK.

DISCHARGE POINT 003 (DP 003) IS LOCATED AT AN EXISTING 18" STORM PIPE CROSSING SR 0422 NEAR THE MIDDLE OF THE SOUTHERN PROPERTY LINE. RUNOFF REACHING THIS PIPE WILL DISCHARGE ACROSS THE ROAD TO THE EXISTING QUARRY.

DISCHARGE POINT 004 (DP 004) IS LOCATED AT AN EXISTING 15" STORM PIPE CROSSING SR 0422 AT THE SOUTHEAST CORNER OF THE PROPERTY. RUNOFF REACHING THIS PIPE WILL DISCHARGE ACROSS THE ROAD TO THE EXISTING QUARRY. SOIL INFORMATION AND GEOLOGY

THE FOLLOWING SOILS ARE FOUND WITHIN OR ADJACENT TO THE AREA TO BE DISTURBED BY EARTH MOVING ACTIVITIES. THESE SOILS CAN ERODE WHEN DISTURBED. EROSION WILL BE CONTROLLED WITH STANDARD EROSION CONTROLS SUCH AS FILTER SOCK, SLOPE AND SWALE MATTING, RIPRAP OUTLET PROTECTION, INLET PROTECTION, ROCK CONSTRUCTION ENTRANCES, AND SEDIMENT BASINS.

	SOIL DATA				
MAP SYMBOL	SOIL NAME	SLOPE	HYDROLOGIC GROUP		
BeB	BEDINGTON SHALY SILT LOAM	3-8%	В		
BkB	BERKS CHANNERY SILT LOAM	3-8%	В		
BkC	BERKS CHANNERY SILT LOAM	8-15%	В		
BkD	BERKS CHANNERY SILT LOAM	15-25%	В		
CkA	CLARKSBURG SILT LOAM	0-3%	С		
CmA	COMLY SILT LOAM	0-3%	С		
DfB	DUFFIELD SITL LOAM	3-8%	В		
ThA	THRONDALE SILT LOAM	0-3%	С		
ThB	THRONDALE SILT LOAM	3-8%	С		
* IF SOILS ARE BOLD THEY ARE DISTURBED DURING CONSTRUCTION ON THIS PROJECT					

THE PA DEP'S EMAPPA DOES NOT IDENTIFY ANY KNOWN KARST FEATURES ON SITE. THE ENTIRE SITE IS UNDERLAIN BY THE HERSHEY AND MYERSTOWN FORMATIONS WHICH IS COMPRISED OF ARGILLACEOUS LIMESTONE AND LIMESTONE. LIMESTONE IS SUSCEPTIBLE TO KARST ACTIVITY. SHOULD A GEOTECHNICAL HAZARD ENCOUNTERED, THE COUNTY CONSERVATION DISTRICT WILL BE IMMEDIATELY CONTACTED, AND A CERTIFIED

GEOTECHNICAL ADVISOR WILL BE REQUIRED TO OVERSEE MITIGATION OF THE HAZARDS. BEDINGTON SOILS - THE BEDINGTON SERIES CONSISTS OF VERY DEEP, WELL DRAINED SOILS. BEDINGTON SOILS FORMED IN RESIDUUM FROM DARK BROWN, GRAY AND OLIVE ACID, SEDIMENTARY, SILTSTONE AND SHALE, WITH SOME SANDSTONE INTERBEDS. THEY ARE ON NEARLY LEVEL TO STEEP CONVEX UPLANDS AND ON THE SIDESLOPES OF HILLS AND RIDGES. PERMEABILITY IS MODERATE. MEAN ANNUAL PRECIPITATION IS 42 INCHES. MEAN ANNUAL TEMPERATURE IS 52 DEGREES F. BEDINGTON SOILS MAY BE SUSCEPTIBLE TO CUT BANKS AND CAVE INS AND CORROSIVE TO CONCRETE. THIS SOIL MAY ALSO BE SUBJECT TO DROUGHT AND MAY BE EASILY ERODIBLE. BEDINGTON SOILS MAY ALSO BE SUSCEPTIBLE TO HYDRIC INCLUSIONS, SLOW PERCOLATION, FROST ACTION, AND A POOR SOURCE OF TOPSOIL

BERKS SOILS - THE BERKS SERIES CONSISTS OF MODERATELY DEEP, WELL DRAINED SOILS FORMED IN RESIDUUM WEATHERED FROM SHALE, SILTSTONE AND FINE-GRAINED SANDSTONE ON ROUNDED AND DISSECTED UPLANDS. SLOPE RANGES FROM 0 TO 80 PERCENT. PERMEABILITY IS MODERATE OR MODERATELY RAPID. MEAN ANNUAL PRECIPITATION IS 42 INCHES. MEAN ANNUAL TEMPERATURE IS 52 DEGREES F. BERKS SOILS MAY BE SUSCEPTIBLE TO CUT BANKS AND CAVE INS. CORROSIVE TO CONCRETE, DROUGHTY, AND EASILY ERODIBLE. THIS SOIL MAY ALSO BE SUBJECT TO HYDRIC INCLUSIONS, SLOW PERCOLATION, PIPING, AND A POOR SOURCE OF TOPSOIL

CLARKSBURG SOILS - CLARKSBURG SOILS ARE SUBJECT TO WETNESS BUT NOT PONDING. THIS SOIL IS CONSIDERED TO BE EASILY ERODIBLE AND MAY HAVE A LOW DEPTH TO SATURATED ZONE/SEASONAL HIGH-WATER TABLE. THIS SOIL IS SUSCEPTIBLE TO CAVING CUT BANKS AND CAN BE CORROSIVE TO BOTH STEEL AND CONCRETE. THIS SOIL MAY BE SUBJECT TO HYDRIC INCLUSIONS, LOW STRENGTH, SLOW PERCOLATION, PIPING, FROST ACTION, AND SHRINK/SWELL. THIS SOIL MAY BE A POOR SOURCE OF TOPSOIL AND SUSCEPTIBLE TO SINKHOLE FORMATION.

COMLY SOILS - THE COMLY SERIES CONSISTS OF VERY DEEP, MODERATELY WELL DRAINED. THESE SOILS FORMED COLLUVIUM WEATHERED FROM ACID BROWN AND GRAY SHALE, SANDSTONE, AND SILTSTONE, THEY ARE ON CONCAVE UPLAND SLOPES OF 0 TO 25 PERCENT. PERMEABILITY IS MODERATE ABOVE THE FRAGIPAN AND MODERATELY SLOW IN THE FRAGIPAN. MEAN ANNUAL PRECIPITATION IS 44 INCHES, MEAN ANNUAL TEMPERATURE IS 51 DEGREES F. COMLY SOILS MAY BE SUSCEPTIBLE TO CUT BANKS AND CAVE CORROSIVE TO STEEL AND CONCRETE, DROUGHTY, AND EASILY ERODIBLE. THESE SOILS MAY ALSO BE SUSCEPTIBLE TO A SEASONALLY HIGH WATER TABLE, HYDRIC INCLUSIONS, PIPING, FROST ACTION, AND A POOR SOURCE OF TOPSOIL.

DUFFIELD SOILS - THE DUFFIELD SERIES CONSISTS OF DEEP AND VERY DEEP, WELL DRAINED SOILS FORMED RESIDUUM FROM LIMESTONE BEDROCK. SLOPES RANGE FROM 0 TO 35 PERCENT. PERMEABILITY IS MODERATE. MEAN ANNUAL PRECIPITATION IS 40 INCHES. MEAN ANNUAL TEMPERATURE IS 53 DEGREES F. DUFFIELD SOILS ARE SUSCEPTIBLE TO CUTBANKS AND CAVE INS AND MAY BE CORROSIVE TO STEEL AND CONCRETE. THIS SOIL MAY ALSO BE EASILY ERODIBLE AND SUBJECT TO HYDRIC INCLUSIONS, LOW STRENGTH, SLOW PERCOLATION, PIPING, AND A POOR SOURCE OF TOPSOIL. THIS SOIL IS ALSO SUSCEPTIBLE TO SHRINK/SWELL AND HAS THE POTENTIAL FOR SINKHOLE FORMATION. THIS SOIL IS ALSO SUBJECT TO WETNESS BUT NOT PONDING. THORNDALE SOILS - THE THORNDALE SERIES CONSISTS OF VERY DEEP, POORLY DRAINED SOILS FORMED IN MEDIUM TEXTURED COLLUVIUM DERIVED FROM LIMESTONE, CALCAREOUS SHALE, AND SILTSTONE, SLOPES RANGE FROM 0 TO 8 PERCENT, SATURATED HYDRAULIC CONDUCTIVITY IS MODERATELY LOW TO MODERATELY HIGH. MEAN ANNUAL PRECIPITATION IS ABOUT 40 INCHES. MEAN ANNUAL TEMPERATURE IS ABOUT 53 DEGREES F. THORNDALE SOILS MAY BE SUSCEPTIBLE TO CUT BANKS AND CAVE INS, AND CORROSIVE TO CONCRETE AND THIS SOIL MAY ALSO BE SUBJECT TO SEASONAL HIGH-WATER TABLE, HYDRIC INCLUSIONS, LOW STRENGTH, SLOW PERCOLATION, PIPING, AND A POOR SOURCE OF TOPSOIL. THORNDALE SOILS MAY ALSO BE SUSCEPTIBLE TO FROST ACTION, SHRINK-SWELL, SINKHOLES, AND WETNESS BUT NOT PONDING.

SOIL USE LIMITATIONS AND RESOLUTIONS

- CUT-BANK CAVING: ALL APPLICABLE OSHA STANDARDS AND REGULATIONS SHALL BE IMPLEMENTED AT ALL TIMES DURING TRENCHING AND EXCAVATION OPERATIONS. • CORROSION OF STEEL AND CONCRETE: ALL UNDERGROUND FOUNDATIONS AND STRUCTURES SHALL BE PROPERLY PROTECTED AGAINST CORROSION, WHICH MAY INCLUDE COATING THESE STRUCTURES WITH
- CORROSION-RESISTANT MATERIAL. • EASILY ERODIBLE: EROSION AND SEDIMENT POLLUTION CONTROLS WILL BE IMPLEMENTED TO AVOID THE
- TRANSPORTATION OF SEDIMENT-LADEN WATER OFF-SITE. • DEPTH TO SATURATED ZONE/SEASONAL HIGH WATER TABLE: THE SITE MAY REQUIRE DEWATERING OF PITS DURING CONSTRUCTION, I.E. WHEN POURING FOOTERS, EXCAVATING TRENCHES, DEWATERING BASINS, ETC. THE GEOTECHNICAL REPORT DID IDENTIFY HIGH GROUNDWATER IN THE LOCATION OF BASIN 1. WHEN DEWATERING IS REQUIRED. A SUMP PIT AND FILTER BAG SHALL BE UTILIZED. AND WATER SHALL BE PUMPED TO AN UNDISTURBED AREA UPSTREAM OF A PERIMETER CONTROL BMP SUCH AS A FILTER SOCK.
- HYDRIC SOILS/HYDRIC INCLUSIONS: A WETLAND FIELD SURVEY WAS CONDUCTED AND A PATCH OF WETLANDS WAS DELINEATED ALONG THE WESTERN PROPERTY LINE. THERE WILL BE NO DISTURBANCE TO SAID WETLANDS.
- LOW STRENGTH/LANDSLIDE PRONE: THE MAXIMUM PROPOSED SLOPE ON THE SITE IS 3:1. THIS WILL REDUCE THE POTENTIAL FOR EROSION AND LAND SLIDE ACTION. ALL PROPOSED BERMS SHALL BE COMPACTED FULLY IN ORDER TO PROTECT AGAINST LANDSLIDES, AND SHALL BE STABILIZED IMMEDIATELY. • SLOW PERCOLATION: ADEQUATE PRECAUTIONS WILL BE TAKEN TO ENSURE THAT THE PCSM BMPS
- INFILTRATE WITHIN THE REQUIRED TIME PERIOD, INCLUDING INFILTRATION TESTING AND SOIL MODIFICATION/UNDERDRAIN INSTALLATION, IF NECESSARY. INFILTRATION TESTS PREVIOUSLY PERFORMED INDICATED THAT THE INFILTRATION RATE AT THE SITE IS ADEQUATE IN THE PROPOSED INFILTRATION FACILITIES. AN MRC BASIN IS PROPOSED IN THE AREA WHERE LIMITING ZONES EXIST. • PIPING: ANTI-SEEP COLLARS WILL BE PROVIDED AS PART OF THE PCSM AND PIPELINE DESIGNS.
- POOR SOURCE OF TOPSOIL: THE ADEQUACY OF THE TOPSOIL WILL BE EVALUATED UPON THE
 COMMENCEMENT OF EXCAVATION. AS THE ENTIRE SITE IS AN AGRICULTURAL FIELD, THE TOPSOIL IS EXPECTED TO BE SUFFICIENT. • FROST ACTION: THE PROJECT'S IMPERVIOUS SURFACES SHALL BE GRADED AT A MINIMUM OF 2% IN ONE
- DIRECTION, SO THAT WATER WILL NOT COLLECT ON THE SURFACE AND CAUSE DAMAGE DURING FREEZE/THAW CYCLES. CRACKS WHICH DEVELOP IN THE IMPERVIOUS SURFACES SHALL BE PROMPTLY • SHRINK/SWELL: ALL SITE GRADING SHALL DIRECT WATER AWAY FROM BUILDINGS AND OTHER IMPERVIOUS
- SURFACES TO REDUCE THE LIKELIHOOD OF WATER INFILTRATING NEAR OR UNDER THESE STRUCTURES. • SINKHOLE FORMATION: THE PA DEP'S EMAPPA DOES NOT IDENTIFY ANY KNOWN KARST FEATURES ON SITE. 7. SEDIMENT SKIMMER THE ENTIRE SITE IS UNDERLAIN BY THE HERSHEY AND MYERSTOWN FORMATIONS WHICH IS COMPRISED OF ARGILLACEOUS LIMESTONE AND LIMESTONE. LIMESTONE IS SUSCEPTIBLE TO KARST ACTIVITY. SHOULD A

GEOTECHNICAL HAZARD BE ENCOUNTERED, THE COUNTY CONSERVATION DISTRICT $^{
m v}$ CONTACTED, AND A CERTIFIED GEOTECHNICAL ADVISOR WILL BE REQUIRED TO OVERSEE

FOOTERS, DEWATERING BASINS, ETC. SHOULD DEWATERING BE REQUIRED, A SUMP I SHALL BE UTILIZED, AND WATER SHALL BE PUMPED TO AN UNDISTURBED AREA PERIMETER CONTROL (FILTER SOCK).

HA7ARDS.

- 1. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL NEED TO HAVE APPROPRIAT 2.ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETT OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES,
- SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES. 3.ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHE 4. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION
- FILLS. 5.FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT INTO FILLS.
- 7 THE LEBANON COUNTY CONSERVATION DISTRICT SHALL BE CONTACTED IF SEEPS ENCOUNTERED AND THE DESIGNS ARE ALTERED DURING CONSTRUCTION AND THEY SH ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OF METHOD.

CALCULATIONS

- CONSERVATION DISTRICT GENERAL E&S NOTES 1. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABL SITE AT ALL TIMES. THE COUNTY CONSERVATION DISTRICT SHALL BE NOTIFIED OF AN APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE DISTRICT MAY SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
- 2.IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR ACCELERATED EROSION POLLUTION AND NOTIFY THE COUNTY CONSERVATION DISTRICT.
- 3.ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL PUMPED WATER FILTER BAG OR EQUIVALENT SEDIMENT REMOVAL FACILITY, OVER UNDIS AREAS.
- 4.FAILURE TO CORRECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT-LAD LEAVING THE EARTH DISTURBANCE ACTIVITY, OR FAILURE TO TAKE IMMEDIATE CORF RESOLVE FAILURE OF E&S BMPS MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PE STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN
- 5.ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECY OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATION 260.1 ET SEQ., 271.1., AND 287.1 ET SEQ. NO BUILDING MATERIALS OR WASTES OF MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- 6.THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF ANY EXCESS MATERIA THE SITE(S) RECEIVING THE EXCESS HAS AN APPROVED AND FULLY IMPLEMENTED EROS CONTROL PLAN THAT MEETS THE CONDITIONS OF CHAPTER 102 AND/OR OTHER REGULATIONS.
- 7.CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOS MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED AS BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEP WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLA WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. (THE TERM 'USED INCLUDE MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE.)
- 8.ANY PLACEMENT OF CLEAN FILL THAT HAS BEEN AFFECTED BY A SPILL OR RELEAS SUBSTANCE MUST USE FORM FP-001 TO CERTIFY THE ORIGIN OF THE FILL MATERIAL AN THE ANALYTICAL TESTING TO QUALIFY THE MATERIAL AS CLEAN FILL. FORM FP-001 BY THE OWNER OF THE PROPERTY RECEIVING THE FILL.
- 9. ENVIRONMENTAL DUE DILIGENCE MUST BE PERFORMED TO DETERMINE IF THE FILL MAT WITH THE PROJECT QUALIFY AS CLEAN FILL. ENVIRONMENTAL DUE DILIGENCI INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO; VISUAL PROPERTY INSPE DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE MAPS, ENVIRONMENTAL OUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TEST ASSESSMENTS OR AUDITS. ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE VISUAL INSPECTION AND/OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDIC, MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF A REGULATED SUBSTANCE. HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE, IT MI DETERMINE IF IT QUALIFIES AS CLEAN FILL. TESTING SHOULD BE PERFORMED IN APPENDIX A OF THE DEPARTMENT'S POLICY 'MANAGEMENT OF CLEAN FILL".

TEMPORARY CONTROL MEASURES

- 1. TOPSOIL STOCKPILE a. A STOCKPILE SHALL BE USED TO CONTAIN ALL STRIPPED TOPSOIL IN A LIMITED AREA DISTURBANCE TO A MINIMUM.
- b.STOCKPILES SHALL BE STABILIZED IMMEDIATELY IN ACCORDANCE WITH THE T SPECIFICATION CONTAINED HEREON. c.STOCKPILES SHALL BE LOCATED SO THAT ALL SWALES CAN FUNCTION AS DESIGNED.
- d.STOCKPILE HEIGHTS MUST NOT EXCEED 35' IN HEIGHT. SIDE SLOPES SHALL BE 2:1

2. SEDIMENT BASINS

THE PROPOSED STORMWATER BASINS 1, 2, AND 3 WILL SERVE AS SEDIMENT BASINS. THE CONSTRUCTION PHASE. REQUIRED SEDIMENT STORAGE AND DEWATERING VOLUMES THE STANDARD E&S WORKSHEETS PRESENTED LATER IN THIS REPORT. b. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM EACH BASIN WHEN IT HAS REAC ELEVATION NOTED ON THE CLEANOUT STAKE FOR THAT BASIN. ALL SEDIMENT REMOV SHALL BE DISPOSED WITHIN THE LIMITS OF DISTURBANCE. AWAY FROM STEEP SLOPE THAT WILL NOT CAUSE EROSION OR SEDIMENTATION. ALL AREAS DISTURBED DURING BE MULCHED AND PERMANENTLY STABILIZED WITH SEED.

3. SILT SOCK

- a.SILT SOCK SHALL BE USED TO INTERCEPT SEDIMENT-LADEN RUNOFF FROM SMALL WA b.SILT SOCK MUST BE INSTALLED AT LEVEL GRADE. BOTH ENDS OF THE SILT S UP-SLOPE AT A 45-DEGREE ANGLE TO THE MAIN FENCE/SOCK ALIGNMENT. C. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND
- d.ALL AREAS OF CONCENTRATED FLOW AND AT ALL AREAS WHERE THE SILT SOCK UNDERCUT DUE TO EXCESSIVE FLOWS, A NEW SECTION OF SOCK SHALL BE INSTALLED

4.ROCK FILTER OUTLET WITH COMPOST a. A GRAVEL BERM SHALL BE PROVIDED WHERE SHOWN ON THE PLAN AND AT ALL LOC

- CONCENTRATED FLOWS OR WHERE FAILURES IN THE SILT FENCE OCCUR DUE TO EXCEN SEDIMENTATION OR CONCENTRATED FLOWS. b.A 6" LAYER OF COMPOST SHALL BE ANCHORED TO THE UPSLOPE SIDE OF THE ROCK
- c.SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE d.ROCK FILTERS WILL BE REMOVED WHEN CLOGGED WITH SEDIMENT. THE STONE SHAL OF ALL SEDIMENT OR NEW STONE SHALL BE USED TO REBUILD THE FILTER.

5.INTERIM STABILIZATION / TEMPORARY EROSION CONTROL MATTING

- a. TEMPORARY SEEDING/MATTING AND MULCHING SHALL BE APPLIED WHERE INDICATED STABILIZATION TO EXPOSED AREAS.
- b. TEMPORARY SEEDING/MULCHING/MATTING SHALL BE AS APPLIED AS SPECIFIED SCHEDULE CONTAINED ON THE E&SPC PLAN.
- c.ANY DISTURBED AREA ON WHICH ACTIVITY HAS CEASED AND WHICH WILL REMAIN STABILIZED IMMEDIATELY. DURING NON-GERMINATING PERIODS, MULCH MUST BE RECOMMENDED RATES. DISTURBED AREAS THAT ARE NOT AT FINISHED GE RE-DISTURBED WITHIN 1 YEAR MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY SEEDING SPECIFICATION CONTAINED HEREON. DISTURBED AREAS THAT ARE AT FINISHED GRADE OR WILL NOT BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT SEEDING SPECIFICATIONS CONTAINED HEREON.

6. EXTENDED ROCK CONSTRUCTION ENTRANCE

a. A STABILIZED PAD OF CRUSHED STONE (AASHTO #1) SHALL BE LOCATED WHERE CONSTRUCTION TRAFFIC WILL BE ENTERING AND LEAVING THE SITE. THE ROCK CONSTRUCTION ENTRANCE IS USED TO ELIMINATE THE TRACKING OR FLOWING OF SEDIMENT ONTO THE EXISTING ROADWAY. b.ROCK CONSTRUCTION ENTRANCE SHALL BE A MINIMUM 100'L AND 20'W.

a.A ROPE SHALL BE ATTACHED TO THE SKIMMER ARM TO FACILITATE ACCESS TO THE SKIMMER ONCE

ILL BE IMMEDIATELY MITIGATION OF THE I.E. WHEN POURING PIT AND FILTER BAG	INSTALLED. b.SKIMMER SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. c.ANY MALFUNCTIONING SKIMMER SHALL BE REPAIRED OR REPLACED WITHIN 24 HOURS OF INSPECTION. d.ICE OR SEDIMENT BUILDUP AROUND THE PRINCIPAL SPILLWAY SHALL BE REMOVED TO ALLOW THE	EROSION AND SEDIMENTATION. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANC POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SH APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE THE POTENTIAL FOR ACCELE AND/OR SEDIMENT POLLUTION. SHOULD ANY SINKHOLES OR GROUNDWATER SOURCES BE ENCOL CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE GEOTECHNICAL ENGINEER IMMEDIATELY.
A UPSTREAM OF A	SKIMMER TO RESPOND TO FLUCTUATING WATER ELEVATIONS. e.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. f. A SEMI-CIRCULAR LANDING ZONE MAY BE SUBSTITUTED FOR THE GUIDE RAILS	OF SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP, SUCH AS A
TO REMOVE TREES, TE E&S CONTROLS. LEMENT, SUBSIDENCE	PERMANENT CONTROL MEASURES	STAGE. ANY DEVIATION FROM THE FOLLOWING SEQUENCE MUST BE APPROVED IN WRITING FRO CONSERVATION DISTRICT.
AND CONDUITS, ETC. ES IN THICKNESS. OTHER FOREIGN OR N OF SATISFACTORY	 a. ALL DISTURBED AREAS THAT ARE NOT PAVED SHALL BE PERMANENTLY STABILIZED WITH GRASS TO MINIMIZE EROSION. ALL SWALES SHALL BE PERMANENTLY SEEDED AS REQUIRED IN ACCORDANCE WITH THE SEEDING SPECIFICATION SHOWN ON THE ATTACHED E&SPC PLAN. b. PERMANENT GRASS COVER SHALL BE APPLIED AS SPECIFIED IN ACCORDANCE WITH THE SEEDING SCHEDULE AND NOTES CONTAINED ON THE ATTACHED E&SPC PLAN. 	SEQUENCE OF CONSTRUCTION 1. AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING GRUBBING, THE CONTRACTOR SHALL INVITE ALL SUB-CONTRACTORS, THE LANDOWNER, AL MUNICIPAL OFFICIALS, THE CIVIL ENGINEER, AND A REPRESENTATIVE OF THE LOCAL COUNTY DISTRICT TO AN ON-SITE PRE-CONSTRUCTION MEETING. PERIMETER E&S CONTROLS MAY
T BE INCORPORATED	 2.RIP - RAP OUTLET PROTECTION a.RIP-RAP SHALL BE USED AT ALL PIPE OUTLETS TO REDUCE THE OUTFLOW VELOCITY AND MINIMIZE EROSION POTENTIAL AT THE OUTLET PIPE. b.RIP-RAP SHALL BE INSTALLED IN ACCORDANCE WITH THE DIMENSIONS AND MATERIALS SHOWN ON THE ATTACHED PLAN. 	PRIOR TO THE PRE-CONSTRUCTION MEETING. 2.AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTO THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INCO
OR SPRINGS ARE ALL BE HANDLED IN R OTHER APPROVED	 3. CHANNEL LINING INSTALLATION a. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED. b. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH, BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. c. ROLL CENTER BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. 	1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES. 3.ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENC THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FI CONSERVATION DISTRICT OR BY DEP PRIOR TO IMPLEMENTATION.
ORDANCE WITH THE M MANUAL (PA DEP	 d.PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH A 6" OVERLAP, USE A DOUBLE ROW OF STAGGERED STAPLES 4" APART TO SECURE BLANKETS. e.FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. f. BLANKETS ON SIDE SLOPES MUST BE OVERLAPPED 4" OVER THE CENTER BLANKET AND STAPLED (2" FOR 	4.INSTALL EXTENDED ROCK CONSTRUCTION ENTRANCES AS SHOWN ON THE ATTACHED PLAN. 5.THE LIMITS OF DISTURBANCE (LOD) SHOULD BE MARKED PRIOR TO DISTURBANCE ACTIVITI
LE AT THE PROJECT Y CHANGES TO THE REQUIRE A WRITTEN	 BLANKETS ON SIDE SLOPES MOST BE OVERLAFFED & OVER THE CENTER BEAKKET AND STAFLED (2 FOR C350 MATTING). g.IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40-FOOT INTERVALS. USE A ROW OF STAPLES 4" APART OVER ENTIRE WIDTH OF THE CHANNEL. PLACE A SECOND ROW 4" BELOW THE FIRST ROW IN A STAGGERED PATTERN. h.THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL 	STAKES, POSTS & ROPE, CONSTRUCTION FENCE, ETC.) 6.LOCATE, STAKE, AND FLAG AREAS MARKED AS PCSM BMP'S (I.E. MRC BASIN 1, INFILTRATI 3, SUBSURFACE INFILTRATION BEDS 1 & 2). REFER TO PCSM PLAN FOR ADDITIONAL IN
	AND COMPACT THE TRENCH AFTER STAPLING.	LOCATION OF PCSM BMP'S. THESE AREAS SHOULD NOT BE COMPACTED DURING CON CONSTRUCTION TRAFFIC SHALL OCCUR IN THESE AREAS EXCEPT AS NECESSARY FOR EXCAV
L FOR ACCELERATED APPROPRIATE BEST AND/OR SEDIMENT L BMP, SUCH AS A	1. 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 SEDIMENTATION PENDING FUTURE EARTH DISTURBANCE ACTIVITIES.	7.INSTALL PERIMETER SILT SOCK ON THE SITE AT LOCATIONS 1-28 AS INDICATED ON THE A SILT SOCK IS TO BE INSTALLED ALONG THE CONTOUR WHERE POSSIBLE, AT A LEVEL G SOCK SHOULD BE POSITIONED IN SUCH A WAY AS TO PREVENT ANY SEDIMENT FROM LEA SEDIMENT ACCUMULATING TO HALF THE HEIGHT OF THE SILT SOCK SHALL BE REMOVED RESTORE THE SEDIMENT STORAGE CAPACITY OF THESE AREAS. IN THE CASE OF A FAILUF SOCK DUE TO HIGH FLOWS, A NEW SECTION OF SILT SOCK SHALL BE INSTALLED ACRO
STURBED VEGETATED	2.PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.	PORTION OF THE SILT SOCK. AT NO POINT SHALL UN-STABILIZED AREA DRAIN OFFSITE THE SILT SOCK IN LOCATIONS 29-31 IS TO ENSURE SEDIMENTATION OF THE ENGINEERED S OCCUR AND SHOULD BE INSTALLED DURING CONVERSION OF THE SEDIMENT BASINS.
DEN RUNOFF FROM RECTIVE ACTION TO CRIMINAL PENALTIES	3. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN DRAWINGS IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL	8.INSTALL INLET PROTECTION AT THE EXISTING INLETS ALONG SR 0422. INSTALL ROCK FILTE 2 AT THE SOUTHWEST CORNER OF THE SITE.
ENNSYLVANIA CLEAN CIVIL PENALTIES. YCLED OR DISPOSED	EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. TOPSOIL STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SIDE SLOPES MUST BE 2:1 OR FLATTER.	9.PER NPDES REQUIREMENTS, "UPON THE INSTALLATION OR STABILIZATION OF ALL PERIM CONTROL BMPS AND AT LEAST 3 DAYS PRIOR TO PROCEEDING WITH THE BULK EART ACTIVITIES, THE PERMITTEE OR CO-PERMITTEE SHALL PROVIDE NOTIFICATION TO THE E AUTHORIZED CONSERVATION DISTRICT."
IS AT 25 PA. CODE R UNUSED BUILDING	4. AREAS WHICH ARE TO BE TOP-SOILED 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 OUT-SLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.	10. INSTALL SEDIMENT BASINS 1, 2, AND 3 WHICH WILL SERVE AS SEDIMENT BASINS DURING AND BE CONVERTED TO PERMANENT STORMWATER BASINS UPON TRIBUTARY STABILIZATION THE MINIMUM AREA NECESSARY TO INSTALL EACH SEDIMENT BASIN. THE SEDIMENT B/ CONSTRUCTED PRIOR TO ANY MAJOR EARTH DISTURBANCE, STRIPPING, OR CLEARING. EXCA
AL AND MAKE SURE DSION AND SEDIMENT STATE OR FEDERAL	5.LIME AND FERTILIZER SHOULD BE APPLIED IN ACCORDANCE WITH SOIL TEST RECOMMENDATIONS. IF SOIL TEST RESULTS ARE NOT AVAILABLE, APPLY AT LEAST 6 TONS OF AGRICULTURAL GRADE LIMESTONE AND 1000 POUNDS OF 10-20-20 FERTILIZER PER ACRE.	SEDIMENT BASINS SHALL ONLY BE TO THE ELEVATION IDENTIFIED ON THE PLAN. DO NOT FOR AMENDED SOILS AT THIS TIME. INSTALL THE OUTLET PIPE(S) FROM EACH BASIN A ASSOCIATED OUTLET STRUCTURE(S). CONSTRUCT IMPERVIOUS CLAY CORES, ANTI-SEEP BACKFILL EMBANKMENTS, COMPACTING TO 95% MAX DRY DENSITY. INSTALL NORTH AMERIC, SLOPE PROTECTION AT EMERGENCY SPILLWAYS. INSTALL TYPE 'DW" END WALLS AND LEVEL
SABLE, INERT, SOLID SPHALT, AND BRICK, ARATE FROM OTHER ACED IN OR ON THE ASPHALT" DOES NOT	6.APPLY SEED AT REQUIRED RATES. IF LEGUMES ARE PLANTED, BE SURE TO INOCULATE THE SEED WITH THE CORRECT LEGUME INOCULANT. SEED MAY BE BROADCAST ON THE SURFACE AND A LAYER OF MULCH APPLIED AT THE NECESSARY RATES. HYDROSEEDING IS ANOTHER METHOD OF SEEDING, WHERE THE SEED, FERTILIZER, AND MULCH ARE MIXED WITH WATER TO FORM AN EMULSION. THIS METHOD SHOULD ONLY BE DONE WITH THE CORRECT EQUIPMENT OR BY PROFESSIONALS.	APPLICABLE AT BASIN OUTLETS. INSTALL RIPRAP OUTLET PROTECTION AT THE BASIN OF SPECIFIED. INSTALL SEED IN THE INTERIOR SLOPES AND BERMS OF BASIN. INSTALL CLEA BASIN BAFFLES, AND SKIMMERS WITHIN EACH SEDIMENT BASIN. PLEASE REFER TO THE EA ADDITIONAL DETAIL. A LICENSED PROFESSIONAL OR DESIGNEE SHALL BE PRESENT ONSITE D BASIN EXCAVATION AND INSTALLATION OF THE OUTLET PIPES, ANTI-SEEP COLLARS, AND CL
SE OF A REGULATED ND THE RESULTS OF	7. 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. COMPACTED SOILS SHOULD BE SCARIFIED 6 TO 12 INCHES ALONG CONTOUR WHENEVER POSSIBLE PRIOR TO SEEDING.	11. INSTALL SWALES 1 THROUGH 3 WHICH ARE TRIBUTARY TO THE SEDIMENT BASINS AT THI EROSION CONTROL LINING IS INSTALLED IN ACCORDANCE WITH THE PLAN DETAILS. INST, SEWER PIPING FROM I-3 TO EW-2.
MUST BE RETAINED TERIALS ASSOCIATED E IS DEFINED AS: ECTIONS, ELECTRONIC HISTORY, SANBORN NG, ENVIRONMENTAL	8.IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE, THE OPERATOR SHALL STABILIZE THE DISTURBED AREAS. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE SPECIFIED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE STABILIZATION SPECIFICATIONS. DISTURBED AREAS WHICH ARE AT FINAL GRADE OR WHICH WILL NOT BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION SPECIFICATIONS.	 12. IF SOIL IS TAKEN TO OR BORROWED FROM ANOTHER CONSTRUCTION SITE, SAID SITE APPROVED E&SPC PLAN. SEE THE "SOIL LIMITATIONS AND RESOLUTIONS" SECTION OF THIS FURTHER INFORMATION. 13. CLEAR AND STRIP TOPSOIL ACROSS THE AREA OF PROPOSED DISTURBANCE AND PLACE OF STOCKPILE AS SHOWN ON THE ATTACHED PLAN AND IN ACCORDANCE WITH PLAN DETAIL SOCK BELOW EACH TOPSOIL STOCKPILE AS SHOWN ON THE ATTACHED PLAN. STOCK RELOCATED AS REQUIRED DURING CONSTRUCTION TO BRING A SECTION OF THE SITE UP TO STOCK PLAN AND DURING CONSTRUCTION TO BRING A SECTION OF THE SITE UP TO STOCK PLAN AND DURING CONSTRUCTION TO BRING A SECTION OF THE SITE UP TO STOCK PLAN AND DURING CONSTRUCTION TO BRING A SECTION OF THE SITE UP TO STOCK PLAN AND DURING CONSTRUCTION TO BRING A SECTION OF THE SITE UP TO STOCK PLAN AND DURING CONSTRUCTION TO BRING A SECTION OF THE SITE UP TO STOCK PLAN AND DURING CONSTRUCTION TO BRING A SECTION OF THE SITE UP TO STOCK PLAN AND DURING CONSTRUCTION TO BRING A SECTION OF THE SITE UP TO STOCK PLAN AND DURING CONSTRUCTION TO BRING A SECTION OF THE SITE UP TO STOCK PLAN AND DURING CONSTRUCTION TO BRING A SECTION OF THE SITE UP TO STOCK PLAN AND DURING CONSTRUCTION TO BRING A SECTION OF THE SITE UP TO STOCK PLAN AND DURING CONSTRUCTION TO BRING A SECTION OF THE SITE UP TO STOCK PLAN AND DURING CONSTRUCTION TO BRING A SECTION OF THE SITE UP TO STOCK PLAN AND DURING CONSTRUCTION TO BRING A SECTION OF THE SITE UP TO STOCK PLAN AND DURING CONSTRUCTION TO BRING A SECTION OF THE SITE UP TO STOCK PLAN AND DURING CONSTRUCTION TO BRING A SECTION OF THE SITE UP TO STOCK PLAN AND DURING CONSTRUCTION TO BRING A SECTION OF THE SITE UP TO STOCK PLAN AND DURING CONSTRUCTION TO BRING A SECTION OF THE SITE UP TO STOCK PLAN AND DURING CONSTRUCTION TO BRING A SECTION OF THE SITE UP TO STOCK PLAN AND DURING CONSTRUCTION TO BRING A SECTION DURING CONSTRUCTION DURING CONSTR
E DILIGENCE UNLESS ATES THAT THE FILL . IF THE FILL MAY MUST BE TESTED TO ACCORDANCE WITH	9. AN EROSION CONTROL BLANKET WILL BE INSTALLED ON ALL DISTURBED SLOPES STEEPER THAN 3:1, ALL AREAS OF CONCENTRATED FLOWS, AND DISTURBED AREAS WITHIN 50' OF A SURFACE WATER.	SILT SOCK SHALL BE INSTALLED BELOW EACH STOCKPILE. THE COUNTY CONSERVATION D BE NOTIFIED PRIOR TO THE RELOCATION OF ANY STOCKPILES. 14. ROUGH GRADE THE DISTURBED AREA TO CONSTRUCT THE BUILDING, ACCESS DRIVES,
	MAINTENANCE 1. THE APPLICANT/OR HIS DESIGNEE SHALL BE RESPONSIBLE FOR MAINTAINING ALL FACILITATES SHOWN ON THIS PLAN.	AREAS. 15. INSTALL WATER, SANITARY SEWER, STORM SEWER, AND ALL OTHER UTILITIES AT THIS TIM
	2.DIVERSIONS, CHANNELS, AND STOCKPILES MUST BE STABILIZED IMMEDIATELY.	FOLLOWING STORM EVENTS PROVIDE A MEANS TO DEWATER PITS AND UTILITY TRENCHES. FROM EXCAVATION OF THE TRENCHES SHALL BE PLACED ON THE UP-SLOPE SIDE OF TH LENGTH OF OPEN TRENCH SHALL BE LIMITED TO THAT WHICH WILL BE BACKFILLED THE S
A IN ORDER TO KEEP	3. ANY PERMANENTLY SEEDED AREA THAT BECOMES ERODED OR DISTURBED SHALL HAVE THE TOPSOIL REPLACED, THE GRASS RE—SOWN AND MULCH REAPPLIED, OR, AT THE DISCRETION OF THE OWNER, SOD INSTALLED.	ANY AFFECTED BMP'S SHALL BE IMMEDIATELY STABILIZED AND REPAIRED. THE TOPSOIL EX THE TRENCH SHALL BE CAREFULLY REMOVED AND STOCKPILED SEPARATELY FROM THE TOPSOIL SHALL BE RESTORED TO THE GRADED AREAS TO PRE-CONSTRUCTION CONDITIONS. FROM PITS AND TRENCHES SHALL BE FILTERED BY MEANS OF A FILTER BAG. IMME TRENCHES HAVE BEEN BACKFILLED, FINE-GRADE AREA. ENSURE INLET PROTECTION IS PRO
OR FLATTER.	4.SILT SOCK MUST BE INSTALLED AT LEVEL GRADE ALONG THE CONTOURS. BOTH ENDS OF EACH SILT SOCK SECTION MUST EXTEND AT LEAST 8 FEET UP-SLOPE AT 45-DEGREE ANGLES TO THE MAIN ALIGNMENT. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH ½ THE ABOVE GROUND HEIGHT OF THE SILT SOCK.	STORM INLETS. 16. AT THIS TIME, EXCAVATE AS REQUIRED TO INSTALL SUBSURFACE INFILTRATION BEDS 1 GEOTEXTILE, DISTRIBUTION PIPING SYSTEM, AND OUTLET STRUCTURES WITHIN EACH BED. PER PLAN DETAILS. A LICENSED PROFESSIONAL OR DESIGNEE SHALL BE PRESENT
S ARE SPECIFIED ON HED THE CLEAN OUT 'ED FROM THE BASIN	5. ANY SILT SOCK SECTION THAT HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED WITH A NEW SECTION OF SILT SOCK.	SUBSURFACE INFILTRATION BED EXCAVATION AND INSTALLATION OF THE GEOTEXTILE, DISTR OUTLET STRUCTURE, AND BACKFILL.
6, AND IN A MANNER THIS PROCESS SHALL	6.STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET. STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.	17. INSTALL FLEXSTORM INLET FILTERS ON ALL INLETS TRIBUTARY TO THE SUBSURFACE INF AS INDICATED ON THE PLANS.
TERSHEDS. SOCK SHALL EXTEND	7.ANY DISTURBED AREA ON WHICH ACTIVITY HAS CEASED AND WHICH WILL REMAIN EXPOSED MUST BE STABILIZED IMMEDIATELY. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE RECOMMENDED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE RE-DISTURBED WITHIN ONE (1) YEAR MAY BE STABILIZED IN ACCORDANCE WITH TEMPORARY SEEDING	18. INSTALL THE STONE SUB-BASE FOR THE PARKING AREAS AND CONCRETE SLAB PER PLAN
HEIGHT OF SOCK. HAS COLLAPSED OR).	SPECIFICATIONS. DISTURBED AREAS WHICH ARE EITHER AT FINISHED GRADE OR WILL NOT BE RE-DISTURBED WITHIN ONE (1) YEAR MUST BE STABILIZED IN ACCORDANCE WITH PERMANENT SEEDING SPECIFICATIONS.	WATER CONNECTIONS, ETC.) IMMEDIATELY UPON COMPLETION OF EARTH DISTURBANCE A GRADE AND STABILIZE THE LOT. 20. FINE GRADE ANY REMAINING AREAS AS SHOWN ON THE GRADING PLAN. DURING THIS TIME, FRAM
ATIONS OF SSIVE FILTER.	8.AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED (DEFINED AS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER, WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION AND SEDIMENTATION IN ALL AREAS TRIBUTARY TO THE CONTROLS), TEMPORARY EROSION AND SEDIMENTATION CONTROLS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS MUST BE STABILIZED IMMEDIATELY.	EQUIPMENT WILL BE EMPLOYED TO REMOVE TOPSOIL AND EXCESS "FILL" MATERIAL, IF ANY EXISTS. SF OF 4-8 INCHES OF TOPSOIL ON FRESHLY GRADED AREAS; REFER TO THE TOPSOIL APPLICATION NOT FINAL PASSES DURING FINE GRADING SHALL BE MADE AT RIGHT ANGLES TO THE SLOPES. PREPARE TH THE DISTURBED AREA FOR PERMANENT STABILIZATION. SEEDBED SHALL BE PREPARED IN AC ACCEPTED PRACTICES. EACH SEED MIXTURE SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFA AND INSTRUCTIONS.
E OUTLET. LL BE WASHED FREE	9.UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT CONTROL BMPS MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROL BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEANOUT, REPAIR, REPLACEMENT, RE-GRADING, RESEEDING, RE-MULCHING AND RE-NETTING MUST BE PERFORMED IMMEDIATELY. IF EROSION AND SEDIMENT CONTROL BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.	21. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE SPECIFIED RATES. DISTURB ARE NOT AT FINISHED GRADE AND WHICH WILL BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED WITH THE TEMPORARY VEGETATIVE STABILIZATION SPECIFICATIONS. DISTURBED AREAS WHICH ARE OR WHICH WILL NOT BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH VEGETATIVE STABILIZATION SPECIFICATIONS.
TO PROVIDE INTERIM ON THE SEEDING EXPOSED MUST BE E APPLIED AT THE ADE AND WILL BE	10. ANY SEDIMENT REMOVED FROM BMPS DURING CONSTRUCTION WILL BE RETURNED TO UPLAND AREAS ON SITE AND INCORPORATED INTO THE SITE GRADING IN A MANNER THAT WILL NOT CAUSE EROSION OR SEDIMENTATION. ALL AREAS DISTURBED DURING THIS PROCESS WILL BE MULCHED AND PERMANENTLY STABILIZED WITH SEED.	22. PAVE THE ACCESS DRIVES AND PARKING AREAS. DO NOT INSTALL SURFACE (WEARING) COURSE U STABILIZED (DEFINED AS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER, WITH A DENS RESISTING ACCELERATED EROSION AND SEDIMENTATION IN ALL AREAS TRIBUTARY TO THE EARTHMOVING ACTIVITIES CEASE FOR FOUR (4) DAYS OR MORE TEMPORARY STABILIZATION SHALL "STABILIZATION SPECIFICATIONS" IN THE E&S PLAN FOR FURTHER DETAILS.

11. E&S BMPS SHALL BE INSPECTED FOLLOWING EACH MEASURABLE RAINFALL THROUGH THE DURATION OF THE PROJECT. INSPECTIONS SHALL BE LOGGED ON DEP FORM 3800-FM-BCW0271D (DATED 12/2019) AND SHALL SHOW THE DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND 23. ALL SEDIMENT DEPOSITED WITHIN STORM SEWER CONVEYANCE PIPES SHALL BE REMOVED PRIOR TO THE DATE THAT THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO THE COUNTY CONSERVATION DISTRICT OR OTHER REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.

STAGING OF EARTHMOVING

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING STAGING OF EARTHMOVING ACTIVITIES. EACH STAGE SHALL BE COMPLETED BEFORE A SUBSEQUENT STAGE IS INITIATED. CONSTRUCTION OF THE SITE IMPROVEMENTS IS EXPECTED TO BEGIN IN THE SPRING OF 2023. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE AT ALL CONSTRUCTION WILL PROCEED IN A TIMELY MANNER IN ORDER TO LIMIT THE POTENTIAL FOR ACCELERATED

THE PROJECT AND PRIOR TO CONVERSION OF THE SEDIMENT BASINS TO PERMANENT STORMWA WATER PUMPED FROM A BASIN OR OTHER AREA OF THE SITE SHALL BE PUMPED THROUGH A FILT COLLECTED SEDIMENT SHALL BE DISPOSED OF PROPERLY. ALL AREAS DISTURBED DURING THIS PRO STABILIZED IMMEDIATELY THROUGH SEEDING AND MULCHING. THE COUNTY CONSERVATION DIST CONTACTED PRIOR TO CONVERSION OR REMOVAL OF ANY E&S BMPS AND MAY REQUIRE A SITE INSP ALL TEMPORARY EROSION AND SEDIMENT CONTROLS ONCE THE SITE IS COMPLETELY STABILIZED MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER, WITH A DENSITY CAPABLE OF RESISTING EROSION AND SEDIMENTATION IN ALL AREAS TRIBUTARY TO THE CONTROLS) WITH APPROVAL CONSERVATION DISTRICT.

RCUMSTANCES POSING THE ERATOR SHALL IMPLEMENT OR ACCELERATED EROSION S BE ENCOUNTERED DURING MMEDIATELY. ALL PUMPING JCH AS A PUMPED WATER TATED AREAS. TOLLOWING SEQUENCE. EACH DWING STAGE IS INITIATED. AREAS DESCRIBED IN EACH WRITING FROM THE COUNTY	24. UPON STABILIZATION OF ALL DISTURBED AREAS MODIFY SEDIMENT BASINS 1, 2, AND 3 AS REQUIRED TO INSTALL INFILTRATION BASINS 2 & 3 AND MRC BASIN 1 AS SHOWN ON THE PCSM PLAN. THE BASINS SHALL BE OVER-EXCAVATED AND SCARIFIED IN ACCORDANCE WITH THE PLAN DETAIL. THE EXCAVATOR SHOULD AVOID EXCAVATING TO THE FINAL DESIGN INVERT UNTIL THE ENGINEERED SOIL MIX IS READY TO BE PLACED. THIS WILL MINIMIZE THE EXPOSURE OF SUBGRADE SOIL AND AID IN REDUCING COMPACTION. WHEN EXCAVATING TO FINAL INVERT SUBGRADES UTILIZE A SMOOTH (TOOTHLESS) BLADE BUCKET TO AVOID LOCALIZED COMPACTION. DURING THE EXCAVATION OF EACH BASIN BOTTOM, INSTALL THE UNDERDRAIN SYSTEM IN ACCORDANCE WITH THE PLAN DETAILS. PLACE THE ENGINEERED SOIL MIX TO THE SPECIFIED ELEVATION WITHIN BASIN. ANY SOIL COMPACTION SHOULD BE AVOIDED IN THE BASIN BOTTOMS. REMOVE ALL SEDIMENT BASIN BAFFLES, CLEANOUT STAKES, AND SKIMMERS. WHEN SEEDING THE BASIN MIXES BE SURE TO HAND RAKE THE SEED INTO THE SOIL. A LICENSED PROFESSIONAL OR DESIGNEE SHALL BE PRESENT ONSITE DURING INSTALLATION OF THE UNDERDRAIN SYSTEM, ENGINEERED SOILS, AND FINAL GRADING/SEEDING OF INFILTRATION BASINS 2 & 3 AND MRC BASIN 1.		-			
INCLUDING CLEARING AND DOWNER, ALL APPROPRIATE CAL COUNTY CONSERVATION NTROLS MAY BE INSTALLED	25. THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET SEQ., 271.1 ET SEQ., AND 287.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES ON OR OFF THE SITE. THESE BUILDING WASTES INCLUDE, BUT ARE NOT LIMITED TO, EXCESS SOIL MATERIALS, BUILDING MATERIALS, CONCRETE WASH WATER, SANITARY WASTES, ETC. THAT COULD ADVERSELY IMPACT WATER QUALITY.	BY 				
CONTRACTORS INVOLVED IN STEM INCORPORATED AT HE SEQUENCE PROVIDED ON I WRITING FROM THE LOCAL HED PLAN.	26.PER NPDES REQUIREMENTS, "WITHIN 30 DAYS AFTER THE COMPLETION OF EARTH DISTURBANCE ACTIVITIES AUTHORIZED BY THIS PERMIT, INCLUDING THE PERMANENT STABILIZATION OF THE SITE AND PROPER INSTALLATION OF PCSM BMPS IN ACCORDANCE WITH THE APPROVED PCSM PLAN, OR UPON SUBMISSION OF THE NOT IF SOONER, THE PERMITTEE SHALL FILE WITH THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT A STATEMENT SIGNED BY A LICENSED PROFESSIONAL AND BY THE PERMITTEE CERTIFYING THAT WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THIS PERMIT AND THE APPROVED E&S AND PCSM PLANS. COMPLETION CERTIFICATES ARE NEEDED TO ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE APPROVED E&S AND PCSM PLANS."	DATE				
CE ACTIVITIES (I.E. SURVEY	CONTRACTOR NOTES					
, INFILTRATION BASINS 2 & DITIONAL INFORMATION AND	1. 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 DEP PRIOR TO IMPLEMENTATION.	REVISION				
DURING CONSTRUCTION. NO FOR EXCAVATION/GRADING. D ON THE ATTACHED PLAN.	2.PER NEW NPDES REQUIREMENTS, "UPON THE INSTALLATION OR STABILIZATION OF ALL PERIMETER SEDIMENT CONTROL BMPS AND AT LEAST 3 DAYS PRIOR TO PROCEEDING WITH THE BULK EARTH DISTURBANCE ACTIVITIES, THE PERMITTEE OR CO-PERMITTEE SHALL PROVIDE NOTIFICATION TO THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT."					
A LEVEL GRADE. THE SILT T FROM LEAVING THE SITE. BE REMOVED IN ORDER TO OF A FAILURE OF THE SILT ALLED ACROSS THE FAILED	3.IF SOIL IT IS TAKEN TO OR BORROWED FROM ANOTHER CONSTRUCTION SITE, SAID SITE MUST HAVE AN APPROVED E&SPC PLAN. SEE THE "SOIL LIMITATIONS AND RESOLUTIONS" SECTION OF THIS E&S PLAN FOR FURTHER INFORMATION.					
IN OFFSITE UNCONTROLLED. NGINEERED SOILS DOES NOT NS. ROCK FILTER OUTLETS 1 &	4.DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE SPECIFIED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE STABILIZATION SPECIFICATIONS. DISTURBED AREAS WHICH ARE AT FINAL GRADE OR WHICH WILL NOT BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION SPECIFICATIONS.					
ALL PERIMETER SEDIMENT BULK EARTH DISTURBANCE TO THE DEPARTMENT OR	5. ALL SEDIMENT DEPOSITED WITHIN STORM SEWER CONVEYANCE PIPES SHALL BE REMOVED PRIOR TO COMPLETION OF THE PROJECT. ANY WATER PUMPED FROM THE STORMWATER BASIN OR OTHER AREA OF THE SITE SHALL BE PUMPED THROUGH A FILTER BAG AND THE COLLECTED SEDIMENT SHALL BE DISPOSED OF PROPERLY. ALL AREAS DISTURBED DURING THIS PROCESS SHALL BE STABILIZED IMMEDIATELY THROUGH SEEDING AND MULCHING. THE COUNTY CONSERVATION DISTRICT SHOULD BE CONTACTED PRIOR TO CONVERSION OR REMOVAL OF PRIMARY E&S BMPS AND MAY REQUIRE A SITE INSPECTION. REMOVE ALL	TES	AN			
SINS DURING CONSTRUCTION ABILIZATION. DISTURB ONLY EDIMENT BASINS MUST BE ARING. EXCAVATION OF THE N. DO NOT OVEREXCAVATE	TEMPORARY EROSION AND SEDIMENT CONTROLS ONCE THE SITE IS COMPLETELY STABILIZED (DEFINED AS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER, WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION AND SEDIMENTATION IN ALL AREAS TRIBUTARY TO THE CONTROLS). 6. THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE OR DISPOSE OF ALL BUILDING MATERIALS AND	ROL NOT		RAGE		
CH BASIN ALONG WITH THE ANTI-SEEP COLLARS, AND RTH AMERICAN GREEN C350 AND LEVEL SPREADERS AS HE BASIN OUTLETS WHERE STALL CLEAN OUT STAKES,	WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET SEQ., 271.1 ET SEQ., AND 287.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES ON OR OFF THE SITE. THESE BUILDING WASTES INCLUDE, BUT ARE NOT LIMITED TO, EXCESS SOIL MATERIALS, BUILDING MATERIALS, CONCRETE WASH WATER, SANITARY WASTES, ETC. THAT COULD ADVERSELY IMPACT WATER QUALITY.	CONT	ELOPMEN	ER STO		nia
TO THE E&S SHEETS FOR T ONSITE DURING SEDIMENT RS, AND CLAY CORES.	7.PER NPDES REQUIREMENTS, "WITHIN 30 DAYS AFTER THE COMPLETION OF EARTH DISTURBANCE ACTIVITIES AUTHORIZED BY THIS PERMIT, INCLUDING THE PERMANENT STABILIZATION OF THE SITE AND PROPER INSTALLATION OF PCSM BMPS IN ACCORDANCE WITH THE APPROVED PCSM PLAN, OR UPON SUBMISSION OF THE NOT IF SOONER, THE PERMITTEE SHALL FILE WITH THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT A STATEMENT SIGNED BY A LICENSED PROFESSIONAL AND BY THE PERMITTEE CERTIFYING THAT	LUTION	DEVE	TRAIL		Ψ
SINS AT THIS TIME. ENSURE TAILS. INSTALL THE STORM	WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THIS PERMIT AND THE APPROVED E&S AND PCSM PLANS. COMPLETION CERTIFICATES ARE NEEDED TO ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE PERMIT AND THE APPROVED E&S AND PCSM PLANS."	L POLL	AND.	AND	located in _ebanon	ounty, P
SAID SITE MUST HAVE AN DN OF THIS E&S PLAN FOR		DIMENT	NAL	USЕ		ebanon C
ND PLACE ON THE TOPSOIL LAN DETAILS. INSTALL SILT LAN. STOCKPILES MAY BE SITE UP TO GRADE. A 24" ERVATION DISTRICT SHOULD		AND SED	ARY/FIN	WAREHOU		Leb
ESS DRIVES, AND PARKING	OPEN, SUNNY LOCATIONS AND WELL-DRAINED SOILS SPECIES PERCENTAGE APP. RATE* FERTILIZER** SEED DATES KENTUCKY BLUEGRASS 100% 2–3	ROSION A	ELIMINAR	NLT W		
AT THIS TIME. DURING AND TRENCHES. SPOIL MATERIAL SIDE OF THE TRENCH, THE ILLED THE SAME DAY, AND TOPSOIL EXCAVATED FROM	KENTUCKY BLUEGRASS 80–90% 3–4 PERENNIAL RYEGRASS 10–20% 100–200–200 MARCH 15–JUNE 15 & OR 100–200–200 MARCH 15–JUNE 15 & KENTUCKY BLUEGRASS 40–60% 3–4 N–P ₂ 0 ₅ –K ₂ 0 AUGUST 30–OCTOBER 15 FINE FESCUES 30–40% PERENNIAL RYEGRASS 10–20% 100–200 AUGUST 30–0CTOBER 15	ER0(P R I	_		
FROM THE SUBSOIL. THE CONDITIONS. WATER PUMPED BAG. IMMEDIATELY AFTER TION IS PROVIDED FOR ALL	TURF-TYPE TURF-TYPE TURF-TYPE 100% 6-8 TURF-TYPE PERENN. RYEGRASS 100% 4-5					
ION BEDS 1 & 2. INSTALL	MODERATE TO PARTIAL SHADE SPECIES PERCENTAGE APP. RATE* FERTILIZER** SEED DATES		<u> </u>	_		┛
EACH BED. BACKFILL BEDS PRESENT ONSITE DURING XTILE, DISTRIBUTION PIPING,	$ \begin{array}{c ccccc} FINE \ FESCUES & 40-50\% & 4 \\ KENTUCKY \ BLUEGRASS & 40-50\% \\ PERENNIAL \ RYEGRASS & 10-20\% & 100-200 & MARCH \ 15-JUNE \ 15 \ \& \\ OR \\ FINE \ FESCUES & 100\% & 4-5 \\ OR \\ OR \\ PERENNIAL \ RYEGRASS & 10-20\% & 100-200 & MARCH \ 15-JUNE \ 15 \ \& \\ N-P_2 \ 0_5-K_2 \ 0 & AUGUST \ 30-OCTOBER \ 15 \\ OR \\ OR \\ OR \\ OR \end{array} $			eying Inc. Suite A	042	
URFACE INFILTRATION BEDS	TURF-TYPE TALL FESCUE 100% 6-8 HEAVY SHADE, WELL-DRAINED SOILS SPECIES PERCENTAGE SPECIES PERCENTAGE APP. RATE* FERTILIZER** SEED DATES			g & Sur Road /	17 17 172–711 172–734	0+01-212
3 PER PLAN REQUIREMENTS.	FINE FESCUES 100% 4-5 N-P ₂ 0 ₅ -K ₂ 0 AUGUST 30-OCTOBER 15			ri' Mii	enns) (717)	
S, SANITARY CONNECTIONS, URBANCE ACTIVITIES FINAL	HEAVY SHADE, POORLY-DRAINED SOILS SPECIES PERCENTAGE APP. RATE* FERTILIZER** SEED DATES			eck Enginee North Zinns	Lebanon, F Phone: Eave C	<i>F ах</i> : (,
S TIME, FRAME EARTH MOVING	ROUGH BLUEGRASS 100% 2-3 100-200-200 N-P205-K20 MARCH 15-JUNE 15 & AUGUST 30-OCTOBER 15			steckbeck 279 Nor	-	
ICATION NOTES ON THE PLAN. . PREPARE THE REMAINDER OF 'ARED IN ACCORDANCE WITH THE MANUFACTURER'S RATES	* LBS PER 1,000 S.F. ** LBS PER ACRE			S S		
ES. DISTURBED AREAS WHICH	 APPLY LIME IN ACCORDANCE WITH SOIL TEST RESULTS. APPLY 6 TONS OF AGRICULTURAL GRADE LIMESTONE/AC OF LAND DISTURBED BY DIVERSIONS AND DAMS. ALL SEEDED AREAS SHALL BE MULCHED WITH HAY OR STRAW APPLIED AT A RATE OF 3 TONS/ACRE. MULCH TO BE ANCHORED WITH WOOD CELLULOSE FIBER © 750 LBS/AC. 	FIELD		TB	/SS	
ES. DISTORBED AREAS WHICH E STABILIZED IN ACCORDANCE WHICH ARE AT FINAL GRADE DANCE WITH THE PERMANENT	3. ALL DIVERSIONS, CHANNELS, SED TRAPS AND STOCKPILE'S MUST BE STABILIZED IMMEDIATELY.	BASE I	1:	С	MA CDS	
G) COURSE UNTIL THE AREA IS		DESIGN CHECK			SS	-
WITH A DENSITY CAPABLE OF RY TO THE CONTROLS). IF ATION SHALL BE APPLIED. SEE	STEEP SLOPES SPECIES PERCENTAGE APP. RATE* FERTILIZER** SEED DATES BIRDSFOOT TREFOIL 98% 10 100-200-200 MARCH 15-JUNE 15 & CROWN VETCH 1-2% 20 N-P205-K20 AUGUST 30-OCTOBER 15 TALL FESCUE 1-2% 30 30 N-P205-K20 AUGUST 30-OCTOBER 15	DATE: SCALE:		08-	05–22 =50'	<u>}</u>
VED PRIOR TO COMPLETION OF IT STORMWATER BASINS. ANY OUGH A FILTER BAG AND THE RING THIS PROCESS SHALL BE	* LBS PER 1,000 S.F. ** LBS PER ACRE	PROJE	 CT #2	2214-	22-00	D1
VATION DISTRICT SHOULD BE E A SITE INSPECTION. REMOVE Y STABILIZED (DEFINED AS A OF RESISTING ACCELERATED APPROVAL OF THE COUNTY	 APPLY LIME IN ACCORDANCE WITH SOIL TEST RESULTS. APPLY 6 TONS OF AGRICULTURAL GRADE LIMESTONE/AC OF LAND DISTURBED BY DIVERSIONS AND DAMS. ALL SEEDED AREAS SHALL BE MULCHED WITH HAY OR STRAW APPLIED AT A RATE OF 3 TONS/ACRE. MULCH TO BE ANCHORED WITH WOOD CELLULOSE FIBER © 750 LBS/AC. ALL DIVERSIONS, CHANNELS, SED TRAPS AND STOCKPILES MUST BE STABILIZED IMMEDIATELY. STEEP SLOPE SEEDING SPECIFICATIONS NOT TO SCALE 	(55				

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