|PREDEVELOPED| = 0.00 AC. = 0.00%|POSTDEVELOPED| = 0.00 AC. = 0.00%|TOTAL SITE AREA = 0.00 AC.

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Reg. No.: 61709

CLIENT:

OWNER:

Issue Date 12-19-2024

04-21-2025

CITY OF HUDSON COUNTY OF SUMMIT STATE OF OHIO

American Firework ke Forest Country Club



CONSTRUCTION OF THE SITE WORK AND UTILITIES SHALL BE GOVERNED BY THE CITY OF HUDSON'S "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION". LATEST EDITION.

- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS REQUIRED
- 3. THE CONTRACTOR MUST ALERT THE OHIO UTILITY PROTECTION SERVICES AT 1-800-362-2764 AT LEAST 48 HOURS BEFORE ANY EXCAVATION IS TO BEGIN.
- ALL EXISTING APPURTENANCES (UTILITY POLES, VALVES, HYDRANTS, MANHOLES, ETC.) ARE TO BE MAINTAINED BY THE CONTRACTOR UNLESS OTHERWISE SHOWN ON THE PLANS.
- THE DESIGN ENGINEER CERTIFIES THAT ALL UTILITIES ARE SHOWN AS THEY APPEAR ON EXISTING
- ALL KNOWN ABOVE AND UNDERGROUND SERVICES HAVE BEEN NOTED ON THE DRAWINGS. THE CONTRACTOR ACCEPTS FULL RESPONSIBILITY FOR ANY SERVICES DAMAGED DURING THE CONSTRUCTION OF THE PROJECT WHETHER SHOWN OR NOT ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING THE SERVICE AS SOON AS POSSIBLE AT THE CONTRACTOR'S
- VIDEO TAPING OF PROJECT SHALL BE DELIVERED AND ACCEPTED BY THE CITY OF HUDSON ENGINEERING DEPARTMENT A MINIMUM OF 14 CALENDAR DAYS PRIOR TO START OF CONSTRUCTION
- NOTIFY THE CITY OF HUDSON ENGINEERING DEPARTMENT A MINIMUM OF FORTY-EIGHT HOURS (2

WORKING DAYS) PRIOR TO THE START OF CONSTRUCTION.

- A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED A MINIMUM OF 48 HOURS (2 WORKING DAYS) AFTER SUBMISSION OF A MINIMUM OF 6 APPROVED SETS OF PLANS AND ALL SHOP DRAWINGS APPLICABLE TO THE PROPOSED IMPROVEMENTS. A PRE-CONSTRUCTION MEETING MUST BE HELD PRIOR TO START OF ANY CONSTRUCTION.
- THE LIMITS OF CLEARING AND GRADING SHALL BE FIELD STAKED AND LINED WITH ORANGE CONSTRUCTION FENCING 48 HOURS (2 WORKING DAYS) PRIOR TO THE PRE-CONSTRUCTION MEETING. AREAS BEYOND THE LIMITS OF CLEARING AND GRADING SHALL NOT BE DISTURBED INCLUDING THE STOCKPILE OF ANY MATERIALS OR CONSTRUCTION TRAFFIC
- ALL ROAD SURFACES, EASEMENTS, OR RIGHT-OF-WAY DISTURBED BY THE CONSTRUCTION OF ANY PART OF THESE IMPROVEMENTS ARE TO BE RESTORED ACCORDING TO THE CITY OF HUDSON "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION" AS DIRECTED BY THE CITY OF **HUDSON AND/OR ITS ENGINEER**
- 12. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CITY OF HUDSON OR ITS REPRESENTATIVE IF SUSPECTED HAZARDOUS MATERIAL OR ANY OTHER MATERIAL THAT MAY CREATE A HEALTH RISK IS
- ALL DISTURBED STORM SEWERS AND/OR APPURTENANCES, SIGNS, GUARD RAILING, MAIL AND/OR PAPER BOXES, DRIVE CULVERTS, FENCES, TREES, LANDSCAPING, OR OTHER ITEMS DISTURBED BY THE CONSTRUCTION SHALL BE RESTORED OR REPAIRED TO AT LEAST THE BEFORE-CONSTRUCTION
- 14. ANY DEFECTS DISCOVERED IN NEW CONSTRUCTION, WORKMANSHIP, EQUIPMENT OR MATERIALS SHALL BE REPAIRED, OR CORRECTED BY APPROVED METHODS AS DIRECTED BY THE CITY OF
- 15. NUCLEAR COMPACTION TESTING SHALL BE REQUIRED FOR ALL FILL AREAS OVER TWO FEET (2') IN
- APPROVAL BY THE CITY OF HUDSON ENGINEER CONSTITUTES NEITHER EXPRESSED NOR IMPLIED WARRANTIES AS TO THE FITNESS, ACCURACY, OR SUFFICIENCY OF PLANS, DESIGNS OR
- 17. DURING TAPPING OF EXISTING UTILITIES, ANY TRAFFIC CONTROL REQUESTED OR REQUIRED BY THE
- 18. COMPLIANCE WITH THE OCCUPATIONAL AND SAFETY ACT OF 1970 IS REQUIRED BY ALL

CITY OF HUDSON WILL BE PROVIDED BY THE CONTRACTOR AT NO COST TO THE CITY.

- 19. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY
- 20. ALL DISTURBED AREAS SHALL RECEIVE 4" OF TOPSOIL AND BE SEEDED AND MULCHED AS PER SECTION 9 - LANDSCAPING AND STREET TREES OF THE CITY'S "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION", LATEST EDITION.
- 21. IF MUD, SOIL, OR OTHER DEBRIS IS DEPOSITED ON ADJACENT STREETS, ROADS, OR OTHER PROPERTY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF SUCH AS DIRECTED BY THE CITY OF HUDSON OR ITS ENGINEER AT THE END OF EACH WORK DAY, OR AS REQUIRED DURING THE WORK
- 22. ALL PROPOSED SLOPES 3:1 OR STEEPER AND ALL EARTHEN DRAINAGE WAYS SHALL RECEIVE JUTE OR EXCELSIOR MATTING AS PER O.D.O.T. 667 OR 668.
- ALL STORM SEWERS WITHIN PUBLIC RIGHTS-OF-WAY AND CITY OF HUDSON EASEMENTS SHALL BE PER SECTION 4 - STORM COLLECTION OF THE CITY'S "ENGINEERING STANDARDS FOR
- 24. ALL PIPES SHALL BE PLACED OVER 4" OF BEDDING, BEDDING MATERIAL SHALL BE AS SPECIFIED IN CITY'S "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION", LATEST EDITION, FOR
- 25. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND PROTECTING THE FLOW OF VEHICULAR AND PEDESTRIAN TRAFFIC AROUND THE JOB SITE. TRAFFIC CONTROL SHALL BE COORDINATED WITH THE CITY OF HUDSON POLICE DEPARTMENT
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PLANT TICKETS FOR ALL MATERIALS DELIVERED TO THE SITE. PLANT TICKETS MUST SHOW NET QUANTITY OF DELIVERED MATERIAL. MATERIAL DELIVERED OR PLACED WITHOUT PLANT TICKETS SHALL BE REMOVED AND PROPERLY DISPOSED AT THE EXPENSE OF THE CONTRACTOR.
- ALL DELIVERED MATERIALS SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF HUDSON OR OTHER APPLICABLE AGENCIES. THE CITY OF HUDSON, OR ITS REPRESENTATIVE, RESERVES THE RIGHT TO REJECT ANY DELIVERED MATERIAL WHICH DOES NOT CONFORM TO THE APPLICABLE STANDARDS AND SPECIFICATIONS.
- 28. THE CITY OF HUDSON OR ITS REPRESENTATIVE, RESERVES, THE RIGHT TO HALT ALL CONSTRUCTION ACTIVITY FOR NONCONFORMANCE OF PLANS, SPECIFICATIONS AND OTHER APPLICABLE STANDARDS
- 29. ALL CHANGES TO APPROVED DRAWINGS AND/OR SPECIFICATIONS MUST BE RE-APPROVED BY THE CITY OF HUDSON PRIOR TO CONSTRUCTION.
- ALL PAVING MATERIAL MUST BE PROVIDED BY O.D.O.T. CERTIFIED SUPPLIER. WRITTEN PROOF SHAL BE REQUIRED UPON DELIVERY OF MATERIALS. THE CERTIFIED MIX DESIGN MUST BE SUBMITTED TO, AND APPROVED BY, THE CITY OF HUDSON PRIOR TO SCHEDULING A PRE-CONSTRUCTION MEETING.
- . CONTRACTOR/DEVELOPER SHALL PROVIDE ALL REQUIRED ROADWAY SIGNAGE AS PER ODOT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES INCLUDING STREET IDENTIFICATION SIGNAGE PER CITY STANDARDS FOR ALL ASPECTS OF THE IMPROVEMENT.
- 32. ALL BONDS AND OR LETTERS OF CREDIT SHALL NOT BE RELEASED OR REDUCED AND NO WATER OR SANITARY SEWER CUSTOMERS CAN BE CONNECTED UNTIL ALL RECORD DRAWINGS HAVE BEEN SUBMITTED, REVIEWED AND APPROVED BY THE CITY OF HUDSON 33. ALL WORK, EXCEPT SIDEWALKS, STREET TREES AND STREET LIGHTS, AS PART OF THESE PLANS SHALL
- OF APPROVAL BY THE CITY ENGINEER. SIDEWALKS, STREET TREES AND STREET LIGHTS SHALL BE COMPLETED WITHIN TWO YEARS OF THE DATE OF APPROVAL BY THE CITY ENGINEER. 34. FAILURE TO COMPLETE THE PROJECT IN ITS ENTIRETY AS APPROVED BY THE PLANNING COMMISSION,

INCLUDING PUNCH LIST ITEMS, WILL RESULT IN THE CITY OF HUDSON HOLDING ALL FUTURE ZONING

BE COMPLETED, INCLUDING PUNCH LIST ITEMS AND DEFICIENCY WORK WITHIN 1 YEAR OF THE DATE

MANUFACTURERS OR SUPPLIERS AFFIDAVIT FOR ALL CONSTRUCTION MATERIALS SHALL BE PROVIDED AS PER THE CITY'S "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION", LATEST EDITION PRIOR TO THE START OF CONSTRUCTION.

CERTIFICATES UNTIL ALL WORK HAS BEEN COMPLETED AND APPROVED.

- 36. THE CONSTRUCTION OF SANITARY SEWERS, WATER MAINS, LIFT STATIONS AND APPURTENANCES IS PROHIBITED UNTIL ALL PLANS HAVE BEEN APPROVED BY THE OHIO ENVIRONMENTAL PROTECTION
- 37. ALL SANITARY SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SUMMIT COUNTY DEPARTMENT OF SANITARY SEWER SERVICES.
- 38. ALL SANITARY SEWERS CONSTRUCTED IN SUMMIT COUNTY DEPARTMENT OF SANITARY SEWER SERVICES (D.S.S.S.) SERVICE DISTRICTS AND SERVED BY D.S.S.S. SHALL COMPLY WITH SC-DOES
- THE OWNER SHALL SUBMIT A NOTICE OF INTENT (N.O.I.) APPLICATION TO THE OHIO ENVIRONMENTAL PROTECTION AGENCY (E.P.A.) AND OBTAIN AUTHORIZATION FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (N.P.D.E.S.) OR THE LATEST FEDERAL, STATE AND/OR LOCAL REGULATIONS. THE OWNER SHALL SUBMIT A COPY OF THE N.P.D.E.S. PERMIT TO THE CITY OF HUDSON 48 HOURS (2 WORKING DAYS) PRIOR TO SCHEDULING A PRE-CONSTRUCTION MEETING
- 40. MAINTENANCE OF TRAFFIC NOTE: EQUIPMENT, MATERIALS AND PERSONAL VEHICLES SHALL NOT BE STAGED ON THE ROADWAY. TWO LANES OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES.



WATERWORK NOTES <u>CITY OF HUDSON WATER SERVICE AREA</u>

- NOTE: THESE WATER WORK NOTES APPLY TO AREAS OF HUDSON THAT ARE TO BE SERVED WITH CITY OF HUDSON WATER.
- ALL WATER MAINS AND APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF HUDSON "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION",
- CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY AND ALL AREAS ALONG THE ROUTE OF THE WATER MAIN. THIS WILL INCLUDE LAWNS, DRIVES, DITCHES, CULVERTS, LANDSCAPING, ETC, AND ANY OTHER AREAS DISTURBED DURING THE CONSTRUCTION
- 3. ALL TESTING SHALL BE IN ACCORDANCE WITH THE CITY OF HUDSON "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION" AND BE COORDINATED WITH THE CITY OF HUDSON. AWWA C-600 PRESSURE TESTING AND C-651 DISINFECTION BY CHLORINATION
- ALL PROPOSED TRENCHES LOCATED UNDER EXISTING OR PROPOSED PAVEMENT SHALL BE THE ENGINEER, SHALL CONFORM TO ODOT 613 TYPE 1. SLAG OR FLY ASH IS NOT PERMITTEI IN MIX. PAVEMENT INCLUDES, BUT IS NOT LIMITED TO, ROADWAY SURFACES, SIDEWALKS BIKE WAYS, DRIVEWAYS, SHOULDERS, ETC. THE LIMITS OF THE LOW STRENGTH MORTAR SHALL INCLUDE 450 ANGLE OF REPOSE FROM ALL EDGES OF PAVEMENT.
- FIELD STAKING AND RECORD DRAWINGS SHALL BE PROVIDED TO THE CITY BY THE CONTRACTOR, AS SUPERVISED AND STAMPED BY A LICENSED PROFESSIONAL SURVEYOR RECORD DRAWINGS (AS-BUILTS) IN BOTH REPRODUCIBLE AND DIGITAL FORMAT COMPATIBLE WITH THE CITY OF HUDSON STANDARDS TO BE SUBMITTED TO AND APPROVED BY THE CITY OF HUDSON PRIOR TO UTILITY SERVICE CONNECTIONS BEING MADE
- A 4' MINIMUM HORIZONTAL CLEARANCE AND A 12" MINIMUM VERTICAL CLEARANCE SHALL BE MAINTAINED FROM THE EDGE OF THE WATER MAIN PIPE TO THE EDGE OF THE STORM
- A 10' MINIMUM HORIZONTAL CLEARANCE AND AN 18" MINIMUM VERTICAL CLEARANCE SHALL BE MAINTAINED FROM THE EDGE OF THE WATER MAIN PIPE TO THE EDGE OF ALL SANITARY SEWERS AND/OR FORCE MAIN PIPE.
- 8. ALL VALVES, FITTINGS, BENDS, TEES, ETC. SHALL HAVE MEGALUG JOINT RESTRAINTS BY
- 9. ALL WATER MAINS WITHIN LOW STRENGTH MORTAR BACKFILL SHALL BE WRAPPED IN POLYETHYLENE AS PER AWWA C-105. OTHER AREAS TO BE WRAPPED IN POLYETHYLENE SHALL BE AS SHOWN ON THE DRAWINGS, AS DETERMINED FROM DIPRA REPORT OR AS
- 10. WHERE WATER MAINS CROSS SEWER TRENCHES, THE TRENCH IS TO BE BACKFILLED WITH ODOT 304 CRUSHED LIMESTONE
- 11. TAPPING SLEEVES SHALL BE ROMAC TYPE, WRAP AROUND STAINLESS STEEL WITH # 316 STAINLESS STEEL BOLTS AND NUTS.
- 12. MANUFACTURER'S AFFIDAVIT: THE MANUFACTURER SHALL FURNISH AN AFFIDAVIT INDICATING THAT ALL PIPE, FITTINGS, VALVES, FIRE HYDRANTS, AND APPURTENANCES HAVE BEEN MANUFACTURED AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE REFERENCED STANDARDS. A COPY OF EACH AFFIDAVIT, INDICATING THE PROJECT ON WHICH THE MATERIAL IS TO BE USED SHALL BE FORWARDED TO THE CITY OF HUDSON PRIOR TO THE PRECONSTRUCTION MEETING BEING SCHEDULED.
- BOOSTER PUMPS ARE NOT PERMITTED ON SERVICE CONNECTIONS. THE CITY MAY GRANT SPECIAL PERMISSION FOR BUILDINGS FOUR STORIES AND HIGHER WITH A FIRE SUPPRESSION
- 14. PROPOSED FACILITIES SHALL BE DESIGNED TO MAINTAIN A MINIMUM OF 35 PSI PRESSURE DELIVERED TO THE CURB STOP DURING NORMAL OPERATING CONDITIONS.
- 15. ALL WATER MAINS GREATER THAN 12 INCH DIAMETER SHALL BE LAID TO GRADE WITH HIGH POINTS AND LOW POINTS HAVING ADEQUATE BLOW-OFFS VIA USE OF HYDRANTS.
- 16. FOR ALL NON-RESIDENTIAL WATER SERVICE, A BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED PER CITY OF HUDSON AND OEPA STANDARDS AND REQUIREMENTS. FOR RESIDENTIAL WATER SERVICE A BACKFLOW PREVENTION DEVICE MAY BE REQUIRED FOR SWIMMING POOLS, IRRIGATION SYSTEMS, ETC. CONTACT THE CITY SERVICE/WATER DISTRIBUTION DEPARTMENT FOR THE REQUIREMENTS AND STANDARDS FOR BACKFLOW PREVENTION, THERMAL EXPANSION CONTROL, ETC.
- 17. ALL WATER METER SETTINGS MUST BE APPROVED BY THE CITY OF HUDSON. METERS SHALL BE MAGNETIC DRIVE, WITH A SCANCODE REMOTE READ, MUST READ IN CUBIC FEET, SET WITH VALVES BEFORE AND AFTER THE METER. IT IS THE RESPONSIBILITY OF THE OWNER/CONTRACTOR TO PROVIDE AND RUN A REMOTE WATER METER WIRE FROM THE PROPOSED WATER METER LOCATION TO THE VICINITY OF THE PROPOSED ELECTRIC METER LOCATION. CONTACT THE CITY SERVICE/WATER DISTRIBUTION DEPARTMENT FOR THE COMPLETE STANDARDS AND REQUIREMENTS FOR WATER METERS, PRESSURE REGULATORS,
- 18. FOR NEW WATER MAIN CONSTRUCTION THE DRAWINGS SHALL HAVE BEEN REVIEWED BY THE OHIO EPA AND WRITTEN APPROVAL RECEIVED PRIOR TO THE START OF CONSTRUCTION.
- 19. ALL WATER MAIN MATERIALS SHALL BE DOMESTIC MAKE MATERIALS ONLY

- ALL ROAD SURFACES, EASEMENTS OR RIGHT OF WAYS DISTURBED BY CONSTRUCTION OF ANY PART OF THIS IMPROVEMENT ARE TO BE RESTORED COMPLETELY TO THE EXISTING CONDITION OR BETTER, WHEN ORDERED BY THE CITY ENGINEER. ALL ITEMS ARE INCLUDED
- 2. PRICES BID PER FOOT FOR ALL PIPE IS COMPLETE IN PLACE REGARDLESS OF SOIL OR ROCK
- 3. THE LOCATIONS OF ALL GAS LINES AND GAS SERVICE LINES TO BE DETERMINED BY THE CONTRACTOR. EXISTING APPURTENANCES SUCH AS UTILITY POLES AND VALVE BOXES, ETC. ARE TO BE HELD BY THE CONTRACTOR DURING CONSTRUCTION.
- 4. THE CONSTRUCTION OF THIS PROJECT SHALL BE GOVERNED BY THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS (CURRENT EDITION) SUPPLEMENTED WHERE APPLICABLE BY THE CITY OF HUDSON ENGINEERING STANDARDS AND/OR LAND DEVELOPMENT CODE. CITY OF HUDSON REGULATIONS SHALL TAKE PRECEDENCE WHENEVER IN CONFLICT WITH O.D.O.T.
- 5. NOTIFY THE CITY OF HUDSON ENGINEER AT 330-342-1770, 48 HOURS BEFORE ANY CONSTRUCTION ACTIVITY.
- 6. FERTILIZING, SEEDING AND MULCHING FOR RESTORATION OF DISTURBED AREAS SHALL CONFORM TO SECTIONS 659.08 AND 659.09 AS SPECIFIED IN O.D.O.T. CONSTRUCTION AND MATERIAL SPECIFICATIONS (CURRENT EDITION).
- 7. ALL DISTURBED SIGNS, DRIVES AND DRIVE CULVERTS SHALL BE REPAIRED AND/OR REPLACED DURING THE CONSTRUCTION AT NO ADDITIONAL COST UNLESS OTHERWISE
- 3. ALL DISTURBED AND/OR DAMAGED STORM SEWER PIPES. STORM SEWER APPURTENANCES. PAVEMENTS, BERMS AND DITCHES SHALL BE REPAIRED AND/OR REPLACED AS DIRECTED BY
- 9. CALL THE OHIO UTILITIES PROTECTION 48 HOUR'S PRIOR TO START OF CONSTRUCTION AT 1-800-362-2764 OR 8-1-1.
- 0. TEMPORARY WATER POLLUTION, SOIL EROSION AND SILTATION CONTROL SHALL BE REQUIRED IN ACCORDANCE WITH THE APPROVED SWP3 AS DIRECTED BY THE CITY ENGINEER AND SUMMIT SOIL AND WATER CONSERVATION DISTRICT.
- 11. STORM SEWER PIPE MATERIALS SHALL CONSIST OF PVC MEETING ASTM D-3034 OR HIGH DENSITY POLYETHYLENE (HDPE) PIPE MEETING AASHTO M294, TYPE S. (PRIVATE PROPERTY ONLY). ALL STORM SEWER PIPE MATERIAL WITHIN THE R/W & STORM WATER MANAGEMENT
- 12. THE CITY ENGINEER IN APPROVING THESE PLANS AND DEDICATION PLAT THEREOF DOES NOT IN ANY WAY RELIEVE THE DEVELOPER'S ENGINEER OF THEIR RESPONSIBILITY FOR ACCURATE AND COMPLETE ENGINEERING DESIGN.
- 13. THE CITY ENGINEER SHALL NOT BE HELD LIABLE FOR DAMAGES OF ANY TYPE, WHICH OCCUR AS A RESULT OF ERROR AND/OR OMISSIONS IN THE ENGINEERING DESIGN DATA PRESENTED BY THE OWNER'S ENGINEER. NEITHER SHALL THE CITY ENGINEER BE LIABLE FOR DAMAGES RESULTING FROM THE DEVELOPER'S CONTRACTORS NOT COMPLYING WITH APPROVED PLANS OR BY USING CONSTRUCTION METHODS OR MATERIALS NOT APPROVED
- 14. ALL STORM WATER MANAGEMENT FACILITIES ARE TO BE PRIVATELY OWNED AND
- 15. A 12" MINIMUM VERTICAL CLEARANCE MUST BE MAINTAINED FROM THE EDGE OF ALL WATER MAINS TO THE EDGE OF ALL PROPOSED STORM SEWERS AND/OR INLET LEAD PIPE
- 16. A 10.0' MINIMUM HORIZONTAL CLEARANCE MUST BE MAINTAINED FROM THE EDGE OF THE WATER MAIN PIPE TO THE EDGE OF THE STORM SEWER PIPE.

WATER MAIN PIPE TO THE EDGE OF THE SANITARY SEWER AND/OR FORCE MAIN PIPE.

- 17. A 10.0' MINIMUM HORIZONTAL CLEARANCE MUST BE MAINTAINED FROM THE EDGE OF THE
- 18. AN 18" MINIMUM VERTICAL CLEARANCE MUST BE MAINTAINED FROM THE EDGE OF ALL WATER MAIN PIPES TO THE EDGE OF ALL SANITARY SEWER PIPE WHERE THEY CROSS.
- 19. EARTHWORK AND SITE PREPARATION SHALL BE AS SPECIFIED IN THE SOILS REPORT.
- 20. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS IN THE CITY ENGINEERING AND COUNTY BUILDING DEPARTMENTS

NECESSARY TO PREVENT SILT FROM LEAVING THE SITE.

22. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF DEMOLITION MATERIAL AND DEBRIS.

21. THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL SILTATION CONTROL MEASURES

- 23. ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE
- SANITARY SEWER ARE PROHIBITED. 24. ALL CURB CUTS MUST BE PERFORMED WITH A HORIZONTAL CONCRETE CUTTING SAW.
- 25. ELECTRICAL CONDUIT SHALL BE AS REQUIRED BY HUDSON PUBLIC POWER.
- 26. TELEPHONE CONDUIT SHALL BE AS REQUIRED BY LOCAL PHONE COMPANY.
- 27. ALL SANITARY SEWER MATERIAL SHALL CONSIST OF PVC SDR-35 MEETING ASTM D3034 WITH JOINTS CONFORMING TO ASTM D3212, UNLESS OTHERWISE NOTED ON THE PLANS.

SHEET NO.

C101 C102 C103 C104 C105 C106 C107-C110

DESCRIPTION

TITLE SHEET **DEMOLITION PLAN** SITE PLAN UTILITY PLAN GRADING PLAN SITE DETAILS **SWP3 DETAILS**



Before You Dig

SITE BENCH MARK

BENCH MARK #1
SANITARY M.H. RIM

ELEVATION = 1074.05

NOTES CORRESPONDING TO SCHEDULE BII

- (15) RESERVATIONS, RESTRICTIONS, COVENANTS, LIMITATIONS, EASEMENTS, AND/OR OTHER CONDITIONS AS SHOWN BY THE HUNT CLUB OF HUDSON PLAT FILED FOR RECORD AUGUST 24, 1988, IN PLAT CABINET D, SLIDE 516 OF SUMMIT COUNTY RECORDS.

 > PLOTTED AFFECTS SUBJECT PROPERTY.
- (16) RESERVATIONS, RESTRICTIONS, COVENANTS, LIMITATIONS, EASEMENTS, AND/OR OTHER CONDITIONS, BY AND BETWEEN EDWARD E. ROGERS AND CATHERINE A. ROGERS (GRANTORS) AND LONNIE J. LUSK (GRANTEE) AS ESTABLISHED IN INSTRUMENT, FILED FOR RECORD AUGUST 25, 1894, IN VOLUME 209, PAGE 319 OF SUMMIT COUNTY RECORDS.

 > NO LONGER AFFECTS SUBJECT PROPERTY. RIGHTS OF CYRUS FOX TO USE A CERTAIN SPRING AND CROSSING OVER AND UNDER THE TRACK OF SAID C. & R. CO. (BEFORE
- (17) RICFT-OF-WAY TO THE CLEVELAND AND PITTSBURCH RAIL ROAD COMPANY, FILED FOR RECORD APRIL 3, 1900, IN VOLUME 249, PAGE 377 OF SUMMIT COUNTY RECORDS. > NOT PLOTTED DOES NOT AFFECT SUBJECT PROPERTY. 10 FT. WIDE STRIP OF LAND, ADJACENT TO THE EASTERLY SIDE OF THE PRESENT (YEAR 1900) RICHT OF WAY OF THE CLEVELAND & PITTSBURGH RAILROAD.

PROPERTY, 36 AC., WAS DIVIDED)

- (8) EASEMENT BY AND BETWEEN WILLIAM R.
 BRAUN AND B.V. STEVENS (GRANTORS) AND
 RICHARD F. STEVENS (GRANTEE) FILED FOR
 RECORD MARCH 20, 1951, IN VOLUME 2817,
 PAGE 62 OF SUMMIT COUNTY RECORDS.
 > PLOTTED MAY AFFECT SUBJECT
 PROPERTY. RIGHT OF WAY AT ALL TIMES
 FREELY TO PASS AND RE-PASS ON FOOT OR
 WITH ANIMALS AND VEHICLES OF EVERY
 DESCRIPTION TO AND FRO FROM SAID
 PROSPECT ROAD. GRANTEE WOULD HAVE TO
 CROSS THE TRACKS TO UTILIZE THIS R.O.W.
- (9) EASEMENT TO THE OHIO TURNPIKE
 COMMISSION, FILED FOR RECORD OCTOBER 13,
 1953, IN VOLUME 3062, PAGE 236 OF
 SUMMIT COUNTY RECORDS.
 > NOT PLOTTED MAY AFFECT SUBJECT
 PROPERTY. CRANTOR, ITS SUCCESSORS AND
 ASSIGNS SHALL NOT ESTABLISH OR MAINTAIN
 OR PERMIT ANY NATURAL OR LEGAL PERSON
 TO ESTABLISH OR MAINTAIN ON ANY OF
 AFORESAID REMAINING LANDS ANY BILLBOARD,
 SIGN, NOTICE, POSTER, ADVERTISING DEVICE,
 OR OTHER DISPLAY WHICH IS VISIBLE FROM
 THE TRAVELWAY OF THE OHIO TURNPIKE
- (20) RESERVATIONS, RESTRICTIONS, COVENANTS, LIMITATIONS, EASEMENTS, AND/OR OTHER CONDITIONS BY AND BETWEEN BURT V. STEVENS, AKA B.V. STEVENS AND AUDREY B. STEVENS AND WILLIAM R. BRAUN AND ALICE JEAN BRAUN (GRANTORS) AND WESTERN CONTRACTING CORPORATION (GRANTEE) AS ESTABLISHED IN INSTRUMENT, FILED FOR RECORD SEPTEMBER 30, 1954, IN VOLUME 3161, PAGE 203 OF SUMMIT COUNTY RECORDS.
- > PLOTTED MAY AFFECT SUBJECT
 PROPERTY. RICHT OF WAY GRANTED BY THE
 GRANTORS HEREIN TO RICHARD F. STEVENS
 FOR INGRESS AND EGRESS ON AND OVER
 (SEE ITEM 18). GRANTEE WOULD HAVE TO
 CROSS THE TRACKS TO UTILIZE THIS R.O.W.

 21) RESERVATIONS, RESTRICTIONS, COVENANTS,
 LIMITATIONS, EASEMENTS, AND/OR OTHER
 CONDITIONS BY AND BETWEEN RICHARD F.
 STEVENS AND ISOBEL C. STEVENS
 (GRANTORS) AND CHARLES C. TROMMER AND
 DOROTHEA I. TROMMER (GRANTEE) AS
 ESTABLISHED IN INSTRUMENT, FILED FOR
 RECORD MAY 11, 1955, IN VOLUME 3185,
 PAGE 658 OF SUMMIT COUNTY RECORDS.
 > PLOTTED MAY AFFECT SUBJECT
 PROPERTY. RIGHT OF WAY (SEE ITEM NOS. 18
- AND 20)

 (22) EASEMENT TO OHIO EDISON COMPANY, FILEL FOR RECORD APRIL 27, 1956, IN VOLUME 3317, PAGE 317, OF SUMMIT COUNTY RECORDS.

 > PLOTTED AFFECTS SUBJECT PROPERTY (P.N. 30-03600 ~ PCL 2). 100 FT. WIDE RIGHT OF WAY FOR LINES FOR THE TRANSMISSION AND DISTRIBUTION OF ELECTRIC CURRENT, INCLUDING TELEPHONE AND TELEGRAPH, UPON, OVER, UNDER, AND ACROSS. TOCETHER WITH THE RIGHT TO INSTALL CUY WIRES AND ANCHORS WITHIN AND ADJACENT TO THE RIGHT-OF-WAY HEREIN GRANTED WHEREVER NECESSARY.
- (23) EASEMENT TO OHIO EDISON COMPANY, FILED FOR RECORD APRIL 27, 1956, IN VOLUME 3321, PAGE 218, OF SUMMIT COUNTY RECORDS.

 > PLOTTED AFFECTS SUBJECT PROPERTY (P.N. 30-01786 ~ PCL 1). 100 FT. WIDE RIGHT OF WAY FOR LINES FOR THE TRANSMISSION AND DISTRIBUTION OF ELECTRIC CURRENT, INCLUDING TELEPHONE AND TELEGRAPH, UPON, OVER, UNDER, AND ACROSS. GRANTORS RESERVE THE RIGHT TO USE THE GROUND BETWEEN SAID STRUCTURES AND BENEATH SAID WIRES, PROVIDED THAT SUCH USE DOES NOT INTERFERE WITH OR OBSTRUCT THE RIGHTS HEREIN GRANTED, AND THE GRANTORS AGREE THAT NO BUILDING, OBSTRUCTION OR IMPEDIMENT OF ANY KIND SHALL BE PLACED WITHIN SAID RIGHT-OF-WAY OR BETWEEN SAID STRUCTURES OR BENEATH SAID WIRES WITHOUT PRIOR WRITTEN APPROVAL OF THE
- (24) EASEMENT TO OHIO EDISON COMPANY, FILED FOR RECORD MAY 26, 1956, IN VOLUME 3321, PAGE 223, OF SUMMIT COUNTY RECORDS.
 > PLOTTED AFFECTS SUBJECT PROPERTY (P.N. 30-09247 ~ PCL 3). 100 FT. WIDE RIGHT OF WAY FOR LINES FOR THE TRANSMISSION AND DISTRIBUTION OF ELECTRIC CURRENT, INCLUDING TELEPHONE AND TELEGRAPH, UPON, OVER, UNDER, AND ACROSS.
- (25) OIL AND CAS LEASE BY AND BETWEEN ANNA R. SZARAZ AND STEVEN SZARAZ (LESSOR) AND K.S.T. OIL AND CAS COMPANY, INC. (LESSEE), FILED FOR RECORD APRIL 17, 1980 IN VOLUME 6316, PAGE 892, AND RE-RECORDED IN VOLUME 6553, PAGE 681, AND RE-RECORDED IN VOLUME 6729, PAGE 738 OF SUMMIT COUNTY RECORDS. > PLOTTED MAY AFFECT SUBJECT PROPERTY (P.N. 30-03600 ~ PCL 2). TWO-YEAR OIL & CAS LEASE.

- ULE BII

 © RIGHT-OF-WAY TO K.S.T. OIL AND GAS CO
 INC., FILED FOR RECORD MAY 17, 1985, II
- VOLUME 7088, PAGE 5 OF SUMMIT COUNTY
 RECORDS. PARTIAL RELEASE FILED FOR
 RECORD MARCH 23, 1988 IN OFFICIAL
 RECORD VOLUME 2, PAGE 744 OF SUMMIT
 COUNTY RECORDS.
 > PLOTTED MAY AFFECT SUBJECT
 PROPERTY (P.N. 30-03600 ~ PCL 2). THE
 RIGHT-OF-WAY TO LAY, MAINTAIN, OPERATE,
 REPLACE, RELOCATE AND REMOVE A PIPELINE,
 WITH DRIPS, VALVES AND OTHER NECESSARY
 27 APPURTENANCES THERETO, ON, OVER AND
- APPURTENANCES THERETO, ON, OVER AND THROUGH DESCRIBED LAND. PARTIAL RELEASE AFFECTED LAND TO THE EAST OF PROSPECT ROAD DUE TO THE HUNT CLUB OF HUDSON SUBD.

 EASEMENT AGREEMENT BY AND BETWEEN STEPHEN SZARAZ, AS EXECUTOR OF THE FITATE OF ANNA B. SZARAZ (GRANTOR) AND
- ESTATE OF ANNA R. SZARAZ (GRANTOR) AND
 THE TRIAD DEVELOPMENT COMPANY
 (GRANTEE), FILED FOR RECORD MARCH 23,
 1988, IN OFFICIAL RECORD VOLUME 2, PAGE
 755 OF SUMMIT COUNTY RECORDS.
 > PLOTTED DOES NOT AFFECT SUBJECT
 PROPERTY. 30 FT. WIDE SANITARY SEWER
 EASEMENT ON THE WEST SIDE OF THE
 RAILROAD PROPERTY.
- RESERVATIONS, RESTRICTIONS, COVENANTS, LIMITATIONS, EASEMENTS, AND/OR OTHER CONDITIONS BY AND BETWEEN STEPHEN SZARAZ, AS EXECUTOR OF THE ESTATE OF ANNA R. SZARAZ (GRANTOR) AND THE TRIAD DEVELOPMENT COMPANY (GRANTEE), FILED FOR RECORD MARCH 23, 1988, IN OFFICIAL RECORD VOLUME 2, PAGE 771 OF SUMMIT COUNTY RECORDS.

 > NOT PLOTTED MAY AFFECT SUBJECT
- 90 PROPERTY (P.N. 30-03600 ~ PCL 2).
 UNRECORDED TRANSMISSION LINE EASEMENT TO THE VILLAGE OF HUDSON, DATED FEBRUARY 22, 1980, PROVIDING FOR THE TRANSMISSION AND DISTRIBUTION OF ELECTRIC CURRENT OVER AN 18 FT. WIDE EASEMENT PARALLEL TO THE OHIO EDISON EASEMENT.
- REQUEST FOR MAINTENANCE AGREEMENT FOR RECORD AUGUST 24, 1988, IN OFFICIAL RECORD VOLUME 98, PAGE 956 OF SUMMIT COUNTY RECORDS.

 > NOT PLOTTED MAY AFFECT SUBJECT PROPERTY (P.N. 30-03600 ~ PCL 2). THIS MAINTENANCE AGREEMENT FOR DRAINAGE FACILITIES IS A PART OF THE DEVELOPMENT PLAN AND THE OBLIGATION TO PAY THE
- MAINTENANCE FEES SHALL PASS WITH TITLE

 NTS,
 HER
 EASEMENT TO OHIO EDISON COMPANY, FILED
 REY B. FOR RECORD SEPTEMBER 27, 1988, IN
 OFFICIAL RECORD VOLUME 119, PAGE 548 OF
 SUMMIT COUNTY RECORDS.

 AS
 FOR
 UME
 PLOTTED AFFECTS SUBJECT PROPERTY
 (P.N. 30-09247 ~ PCL 3).
 RIGHT TO INSTALL DISTRIBUTION POLE LINE
 FACILITIES 48 FT. NORTHEASTERLY FROM
 - THE CENTERLINE OF AN EXIST. 100 FT. WIDE

 OHIO EDISON ESMT. (ITEM 24) AS RECORDED
 IN VOL. 3321, PG. 223.

 EASEMENT TO OHIO EDISON COMPANY, FILED
 FOR RECORD SEPTEMBER 27, 1988, IN
 OFFICIAL RECORD VOLUME 119, PAGE 551 OF
 - SUMMIT COUNTY RECORDS.

 > PLOTTED AFFECTS SUBJECT PROPERTY
 (P.N. 30-03600 ~ PCL 2).
 RIGHT TO INSTALL DISTRIBUTION POLE LINE
 FACILITIES 48 FT. NORTHEASTERLY FROM
 THE CENTERLINE OF AN EXIST. 100 FT. WIDE
 OHIO EDISON ESMT. (ITEM 22) AS RECORDED
 (36) IN VOL. 3317, PG. 317.
 - EASEMENT TO OHIO EDISON COMPANY, FILED FOR RECORD OCTOBER 12, 1988, IN OFFICIAL RECORD VOLUME 129, PAGE 124 OF SUMMIT COUNTY RECORDS.

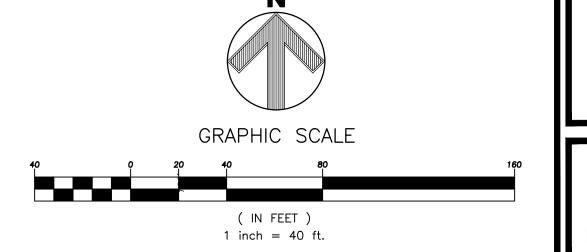
 > NOT-PLOTTED DOES NOT AFFECT SUBJECT PROPERTY. 10 FT. EASEMENT RESERVED FOR THE COUNTY OF SUMMIT EXECUTIVE ON THE FRONT, REAR AND ALL SIDES OF ALL LOTS IN THE HUNT CLUB OF
 - HUDSON AS RECORDED IN PLAT CABINET "D", SLIDES 516-519.

 EASEMENT TO THE VILLAGE OF HUDSON, FILED FOR RECORD JUNE 13, 1990, IN OFFICIAL RECORD VOLUME 488, PAGE 897 OF SUMMIT COUNTY RECORDS.

 > PLOTTED AFFECTS SUBJECT PROPERTY (P.N. 30-03600 ~ PCL 2).
 - RESERVATIONS, RESTRICTIONS, COVENANTS, LIMITATIONS, EASEMENTS, AND/OR OTHER CONDITIONS BY AND BETWEEN THE CITY OF HUDSON (GRANTOR) AND DALE MALM AND KATHRYN L. SCHARAR (GRANTEES) AS ESTABLISHED IN INSTRUMENT, FILED FOR RECORD MAY 14, 1997, IN RECEPTION NO. 54017732 OF SUMMIT COUNTY RECORDS. > PLOTTED THIS PROPERTY KNOWN AS P.N. 30-09247 (PARCEL 3)
 - ELECTRICAL TRANSMISSION EASEMENT BY AND BETWEEN THE CITY OF HUDSON (GRANTOR) AND DALE MALM AND KATHRYN L. SCHARAR (GRANTEES) FILED FOR RECORD MAY 14, 1997, IN RECEPTION NO. 54017733 OF SUMMIT COUNTY RECORDS.

 > NOT PLOTTED DOES NOT AFFECT SUBJECT PROPERTY.
 - RESERVATIONS, RESTRICTIONS, COVENANTS, LIMITATIONS, EASEMENTS, AND/OR OTHER CONDITIONS BY AND BETWEEN DALE MALM AND KATHRYN L. SCHARAR (GRANTORS) AND THE CITY OF HUDSON (GRANTEE) AS ESTABLISHED IN INSTRUMENT, FILED FOR RECORD MAY 14, 1997, IN RECEPTION NO. 54017734 OF SUMMIT COUNTY RECORDS. > NOT PLOTTED DOES NOT AFFECT SUBJECT PROPERTY.
- PHONE
 R, AND
 FOR RECORD OCTOBER 5, 2005, RECEPTION
 NO. 55242310 OF SUMMIT COUNTY RECORDS.
 ASSIGNMENT OF EASEMENT TO
 THOROUGHBRED TECHNOLOGY AND
 TELECOMMUNICATIONS, INC., FILED FOR
 RECORD DECEMBER 22, 2005, RECEPTION NO.
 55272379 OF SUMMIT COUNTY RECORDS.
 ASSIGNMENT OF EASEMENT TO
 THOROUGHBRED TECHNOLOGY AND
 SEE 681,
 PAGE
 TELECOMMUNICATIONS, LLC, FILED FOR
 RECORD OCTOBER 6, 2014, RECEPTION NO.
 55419322 OF SUMMIT COUNTY RECORDS.
 NOT PLOTTED MAY AFFECT SUBJECT
 PROPERTY. 20 FT. WIDE, MEASURED 10 FT.
 ON EACH SIDE OF THE CENTER LINE WHERE
 THE CONDUITS ARE LOCATED THEREIN.

EASEMENT TO AT&T CORP. AND AT&T
COMMUNICATIONS — EAST, INC. (FORMERLY
AT&T COMMUNICATIONS, INC.), FILED FOR
RECORD MARCH 2, 2007, IN RECEPTION NO.
55419322 OF SUMMIT COUNTY RECORDS.
> NOT PLOTTED — MAY AFFECT SUBJECT
PROPERTY 16.5 FT. WIDE EASEMENT.





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CLIENT:

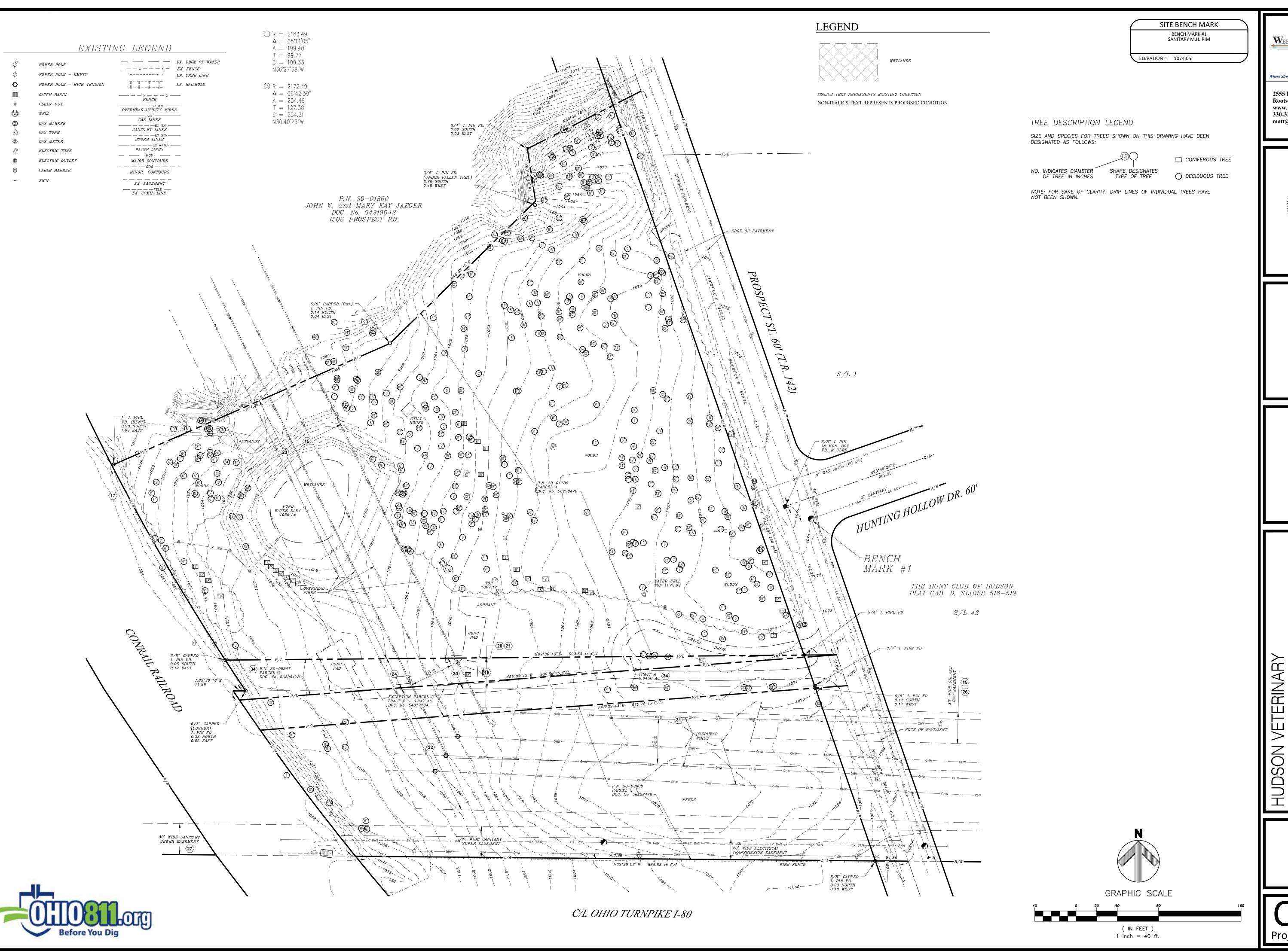
OWNER:

12-17-2024 12-19-2024 02-11-2025 03-17-2025 04-21-2025

UDSON VETERINARY IEW SITE UDSON, OHIO

DEMOLITION PLAN

C101
Project No. 2024-183



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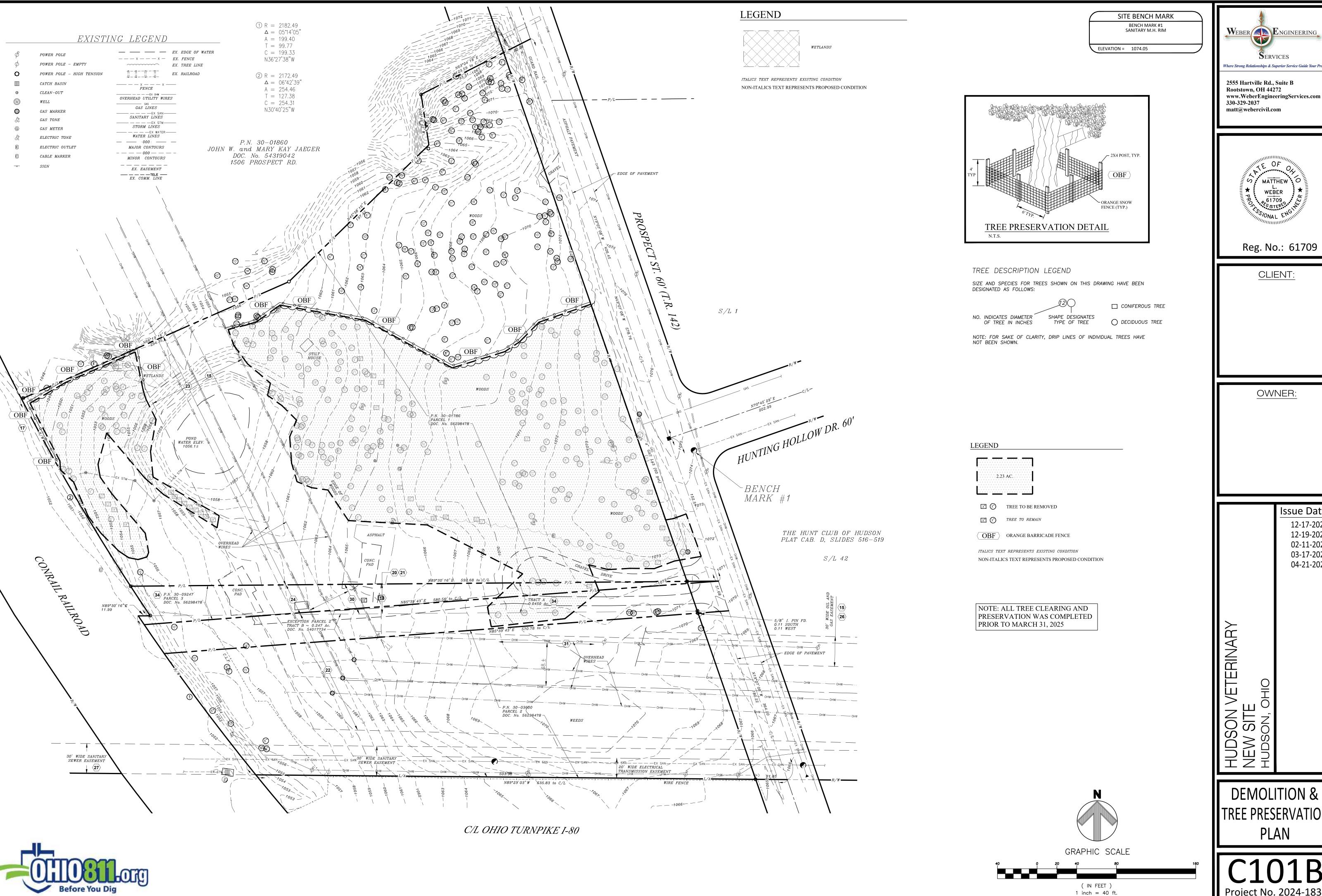
OWNER:

12-17-2024 12-19-2024 02-11-2025 03-17-2025 04-21-2025

SON VETERINARY V SITE SON, OHIO

> TREE SURVEY

C101A
Project No. 2024-183



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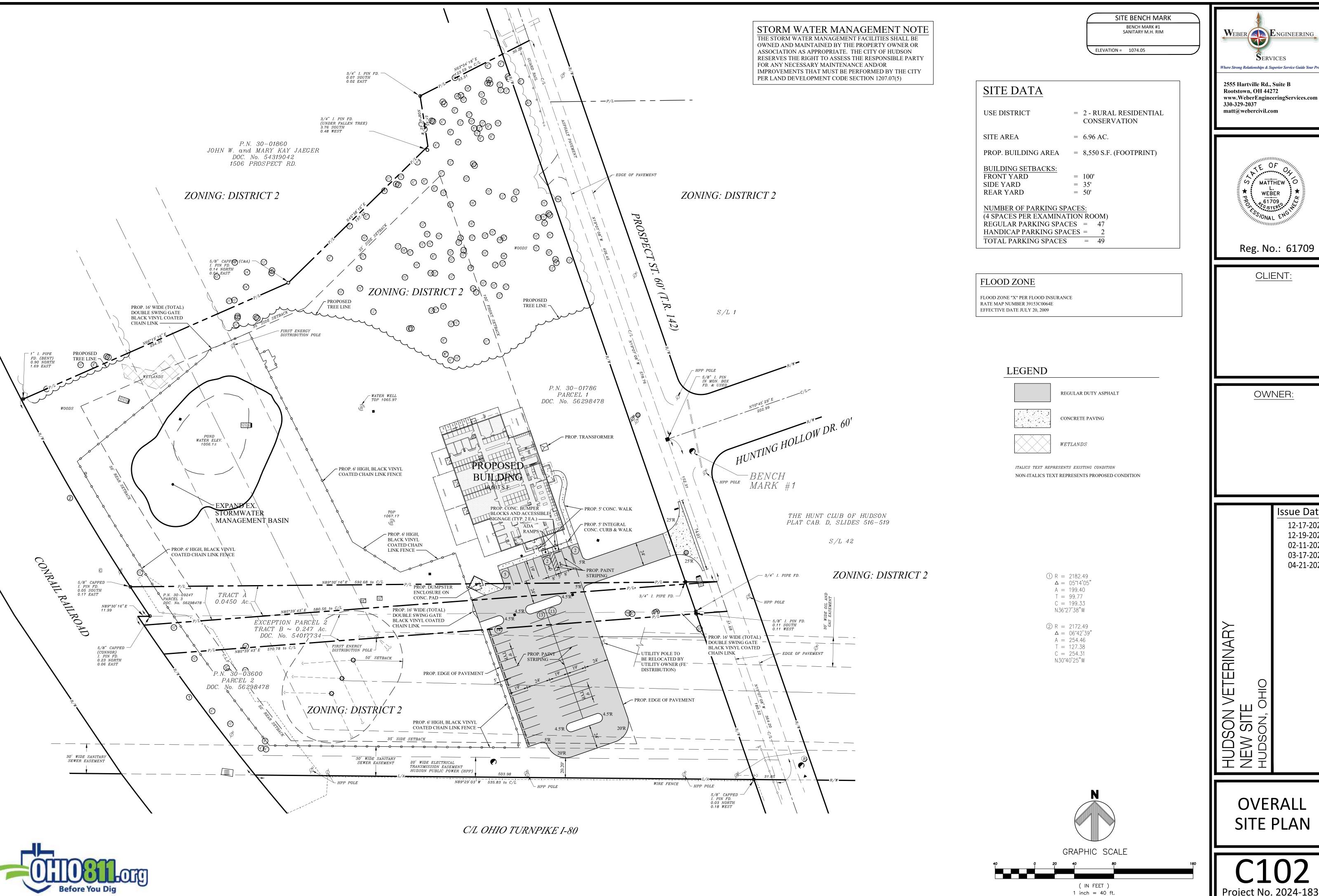
CLIENT:

OWNER:

Issue Date 12-17-2024 12-19-2024 02-11-2025 03-17-2025

04-21-2025

DEMOLITION & TREE PRESERVATION PLAN



SON / SITE ON, O

OVERALL SITE PLAN

Reg. No.: 61709

CLIENT:

OWNER:

Issue Date

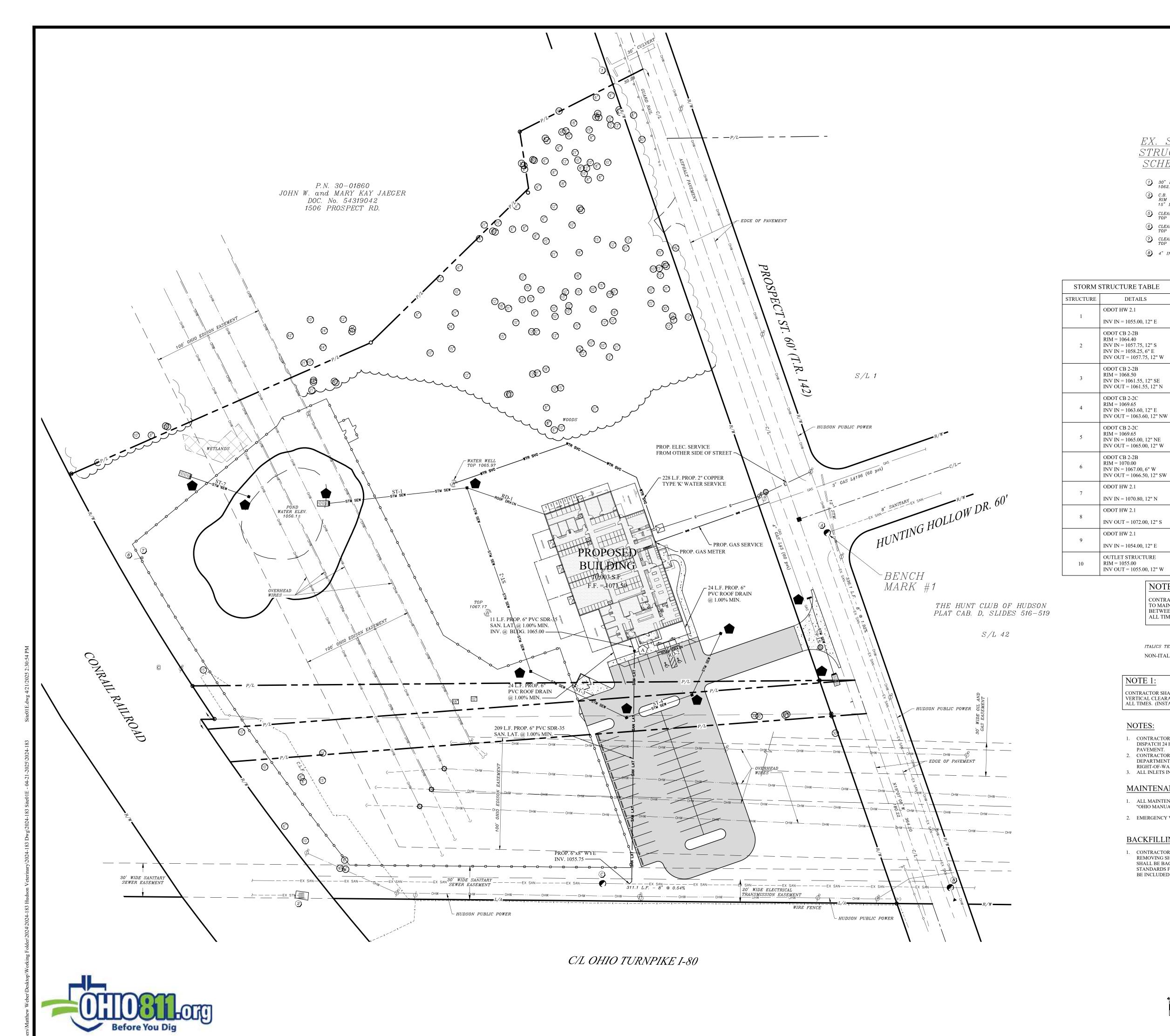
12-17-2024

12-19-2024

02-11-2025

03-17-2025

04-21-2025



SITE BENCH MARK BENCH MARK #1 SANITARY M.H. RIM

ELEVATION = 1074.05

EX. SANITARY

<u>STRUCTURE</u>

<u>SCHEDULE</u>

EX. STORM <u>SCHEDULE</u>

(A) SAN. M.H. HCKM RIM 1074.05 8" INV. 1063.70 NE,SE ② C.B. RIM 1050.75 15" INV. 1048.82 W

B SAN. M.H. HCKL RIM 1065.47 8" INV. 1057.27 N 8" INV. 1057.22 W (5) CLEANOUT TOP 1057.45 © SAN. M.H. RIM 1067.94 8" INV. 1055.54 E,W 6) CLEANOUT TOP 1056.38

CLEANOUT TOP 1052.35 8 4" INV. 1051.64

(1) 30" INV. 1062.12

DETAILS

PROPOSED SANITARY STRUCTURE SCHEDULE

A PROP. SANITARY CLEANOUT TOP 1071.40 INV. 1064.85, 6" NW & S

STORM PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	TYP
RD-1	6"	73.27'	1.00%	PVC
RD-2	6"	91.05'	1.00%	PVC
ST-1	12"	124.69'	2.21%	HDP
ST-2	12"	173.92'	2.18%	HDP
ST-3	12"	95.12'	2.16%	HDP
ST-4	12"	62.01'	2.26%	HDP
ST-5	12"	60.68'	2.47%	HDP
ST-6	12"	71.72'	1.67%	HDP
ST-7	12"	55.59'	1.80%	HDP

NOTE 1:

CONTRACTOR SHALL DEFLECT W.M. AS NECESSARY TO MAINTAIN 18" MIN. VERTICAL CLEARANCE BETWEEN W.M. & SAN. SEW. AND/OR STM. SEW. AT ALL TIMES. (INSTALL BENDS WHERE NECESSARY)

ITALICS TEXT REPRESENTS EXISTING CONDITION NON-ITALICS TEXT REPRESENTS PROPOSED CONDITION

NOTE 1:

CONTRACTOR SHALL DEFLECT W.M. AS NECESSARY TO MAINTAIN 18" MIN. VERTICAL CLEARANCE BETWEEN W.M. & SAN. SEW. AND/OR STM. SEW. AT ALL TIMES. (INSTALL BENDS WHERE NECESSARY)

NOTES:

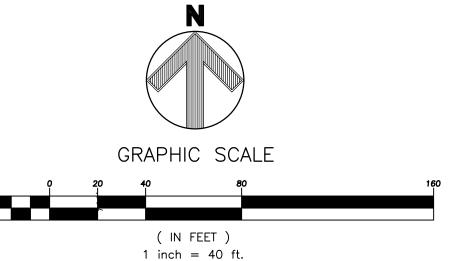
- 1. CONTRACTOR/OWNER SHALL NOTIFY THE CITY OF HUDSON POLICE DISPATCH 24 HRS IN ADVANCE OF ANY WORK WITHIN THE LIMITS OF THE
- 2. CONTRACTOR/OWNER SHALL NOTIFY THE CITY OF HUDSON ENGINEERING DEPARTMENT 48 HRS PRIOR TO START OF ANY AND ALL WORK WITHIN THE RIGHT-OF-WAY.
- 3. ALL INLETS IN PAVED AREAS SHALL HAVE FINGER DRAINS INSTALLED.

MAINTENANCE OF TRAFFIC NOTES:

- 1. ALL MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (OMUTCD).
- 2. EMERGENCY VEHICLE ACCESS SHALL BE MAINTAINED AT ALL TIMES.

BACKFILLING NOTE (WITHIN R/W):

1. CONTRACTOR SHALL BACKFILL AND COMPACT ALL TRENCHES PRIOR TO REMOVING SHORING. ALL UNDERMINING, NO MATTER WHAT THE AMOUNT, SHALL BE BACKFILLED AND COMPACTED PER THE CITY OF HUDSON STANDARDS FOR LSM, AS DIRECTED BY THE CITY OF HUDSON AND SHALL BE INCLUDED IN THE COST PER FOOT OF THE UTILITY.





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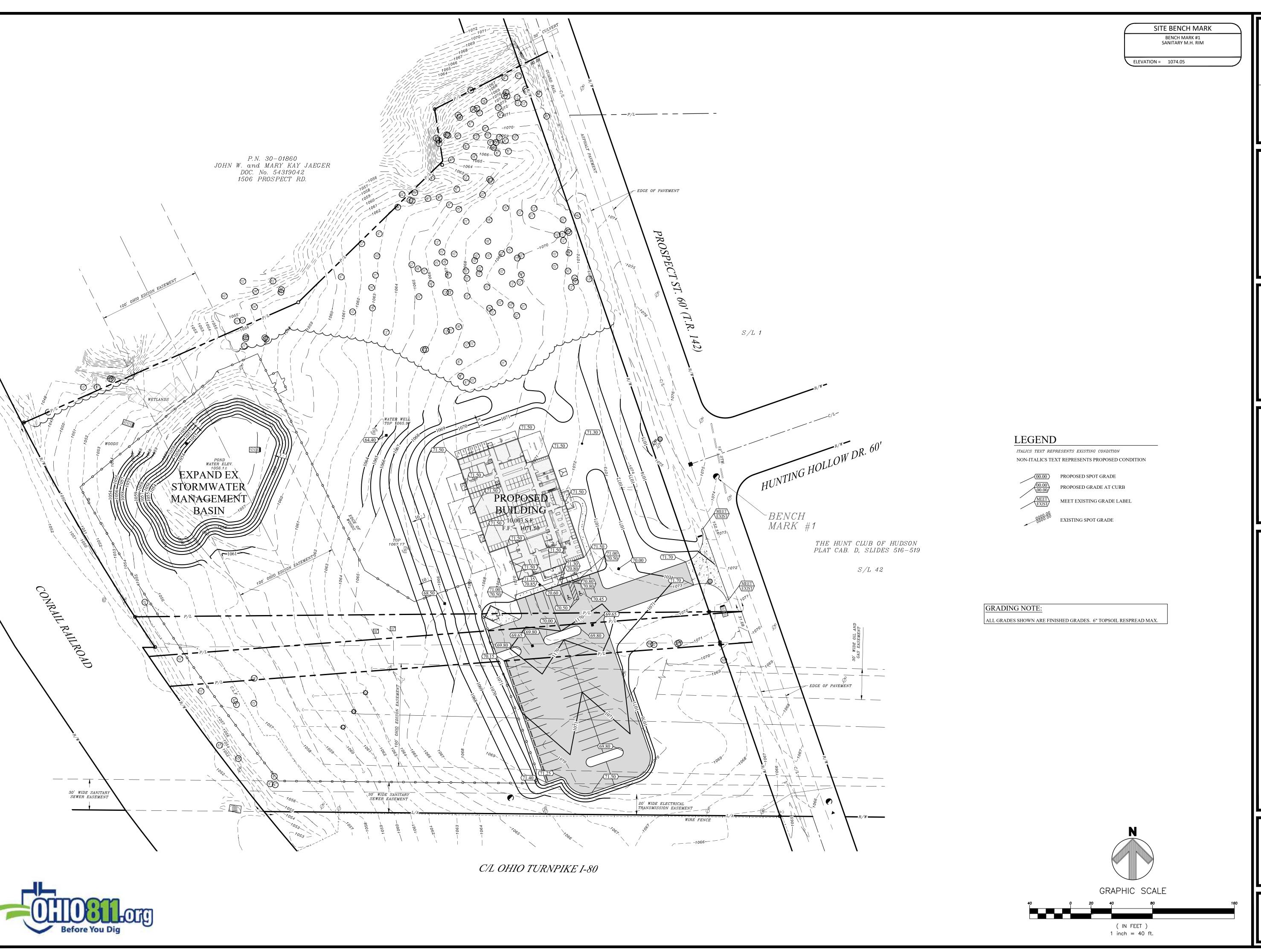
CLIENT:

OWNER:

Issue Date 12-17-2024 12-19-2024 02-11-2025 03-17-2025 04-21-2025

RINA SON \ SITE ON, O

> **OVERALL** UTILITY PLAN



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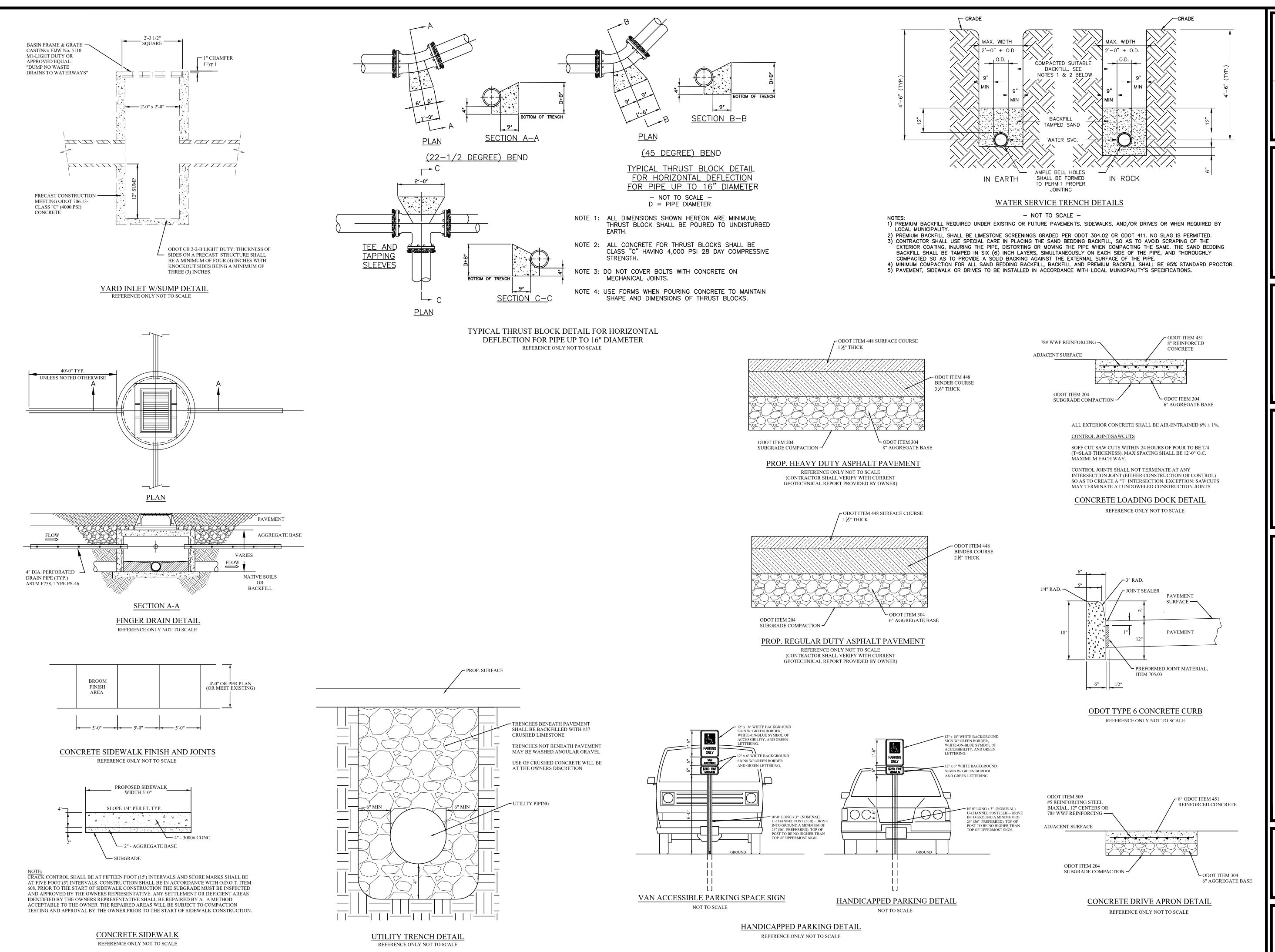
OWNER:

12-17-2024 12-19-2024 02-11-2025 03-17-2025 04-21-2025

SON VETERINARY SITE

> OVERALL GRADING PLAN

C104
Project No. 2024-183



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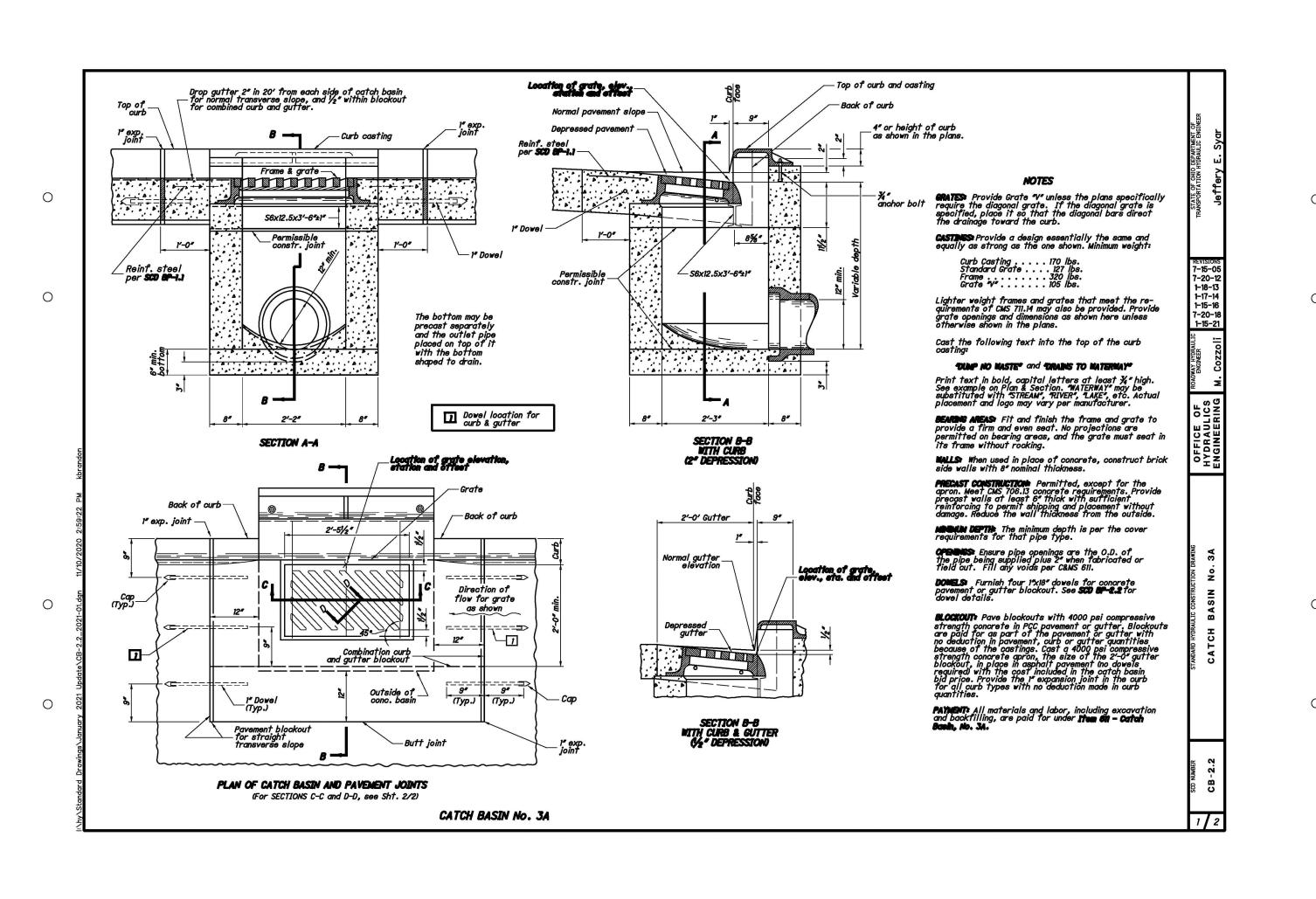
Issue Date
12-17-2024
12-19-2024
02-11-2025
03-17-2025

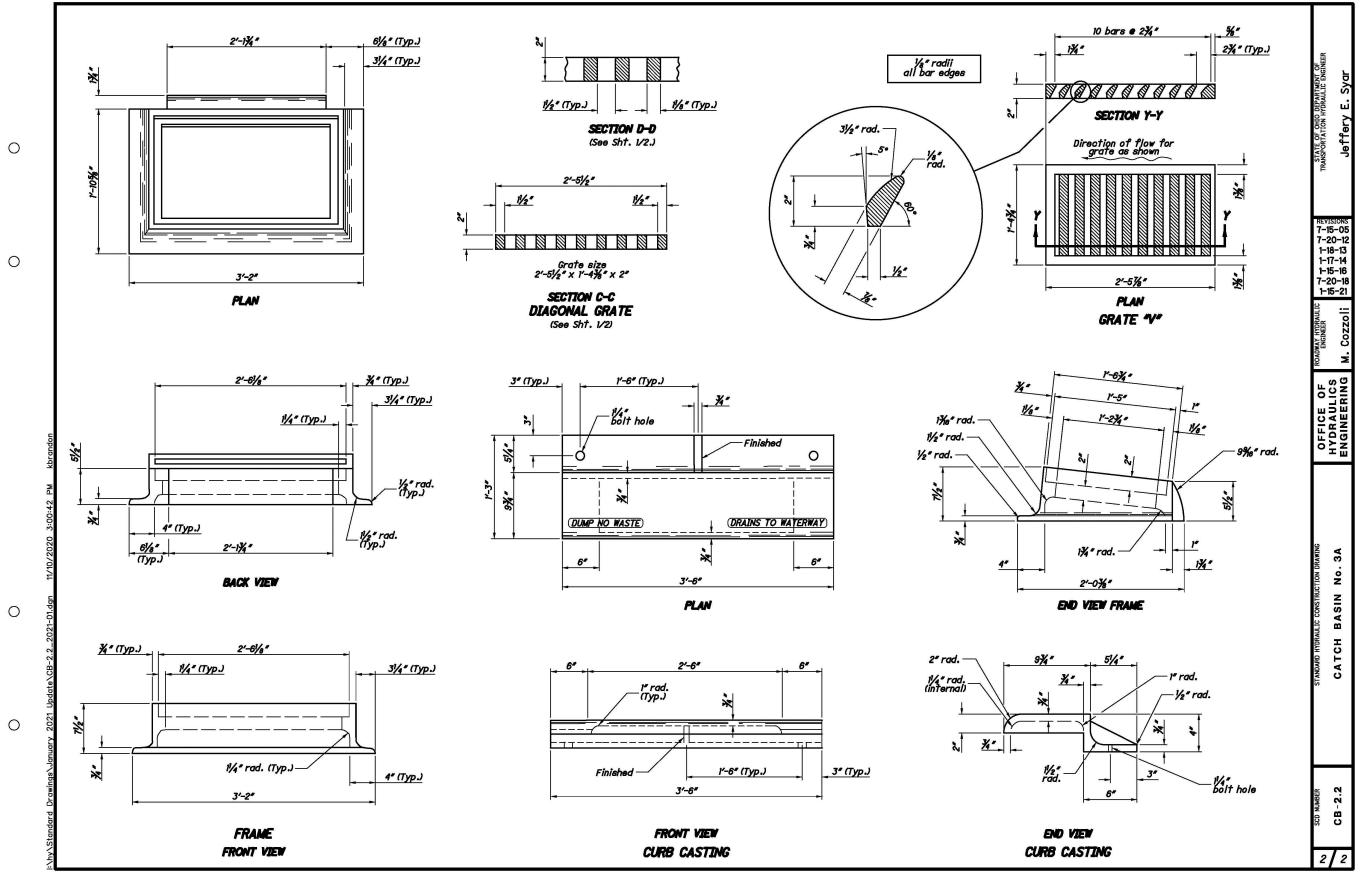
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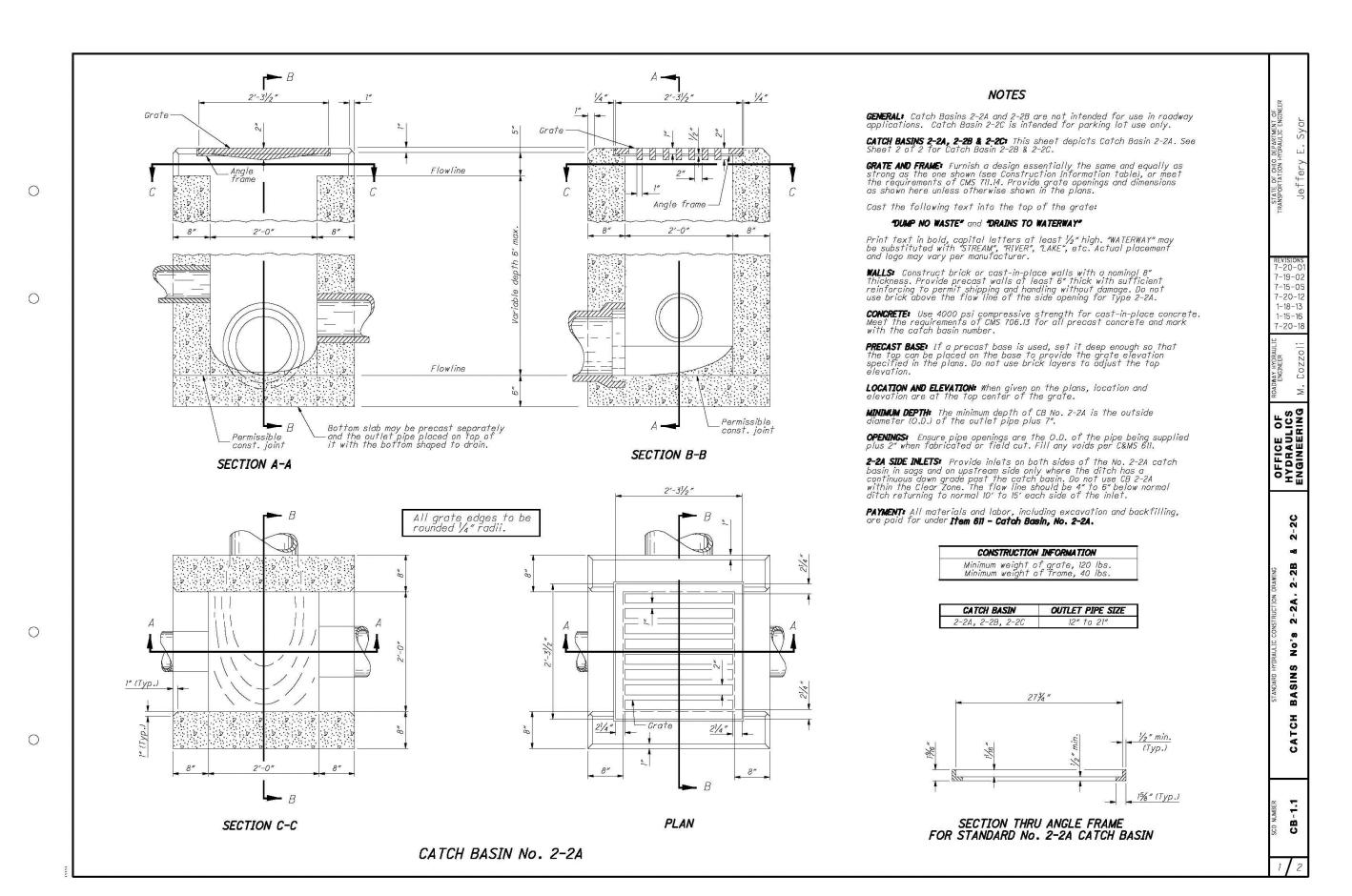
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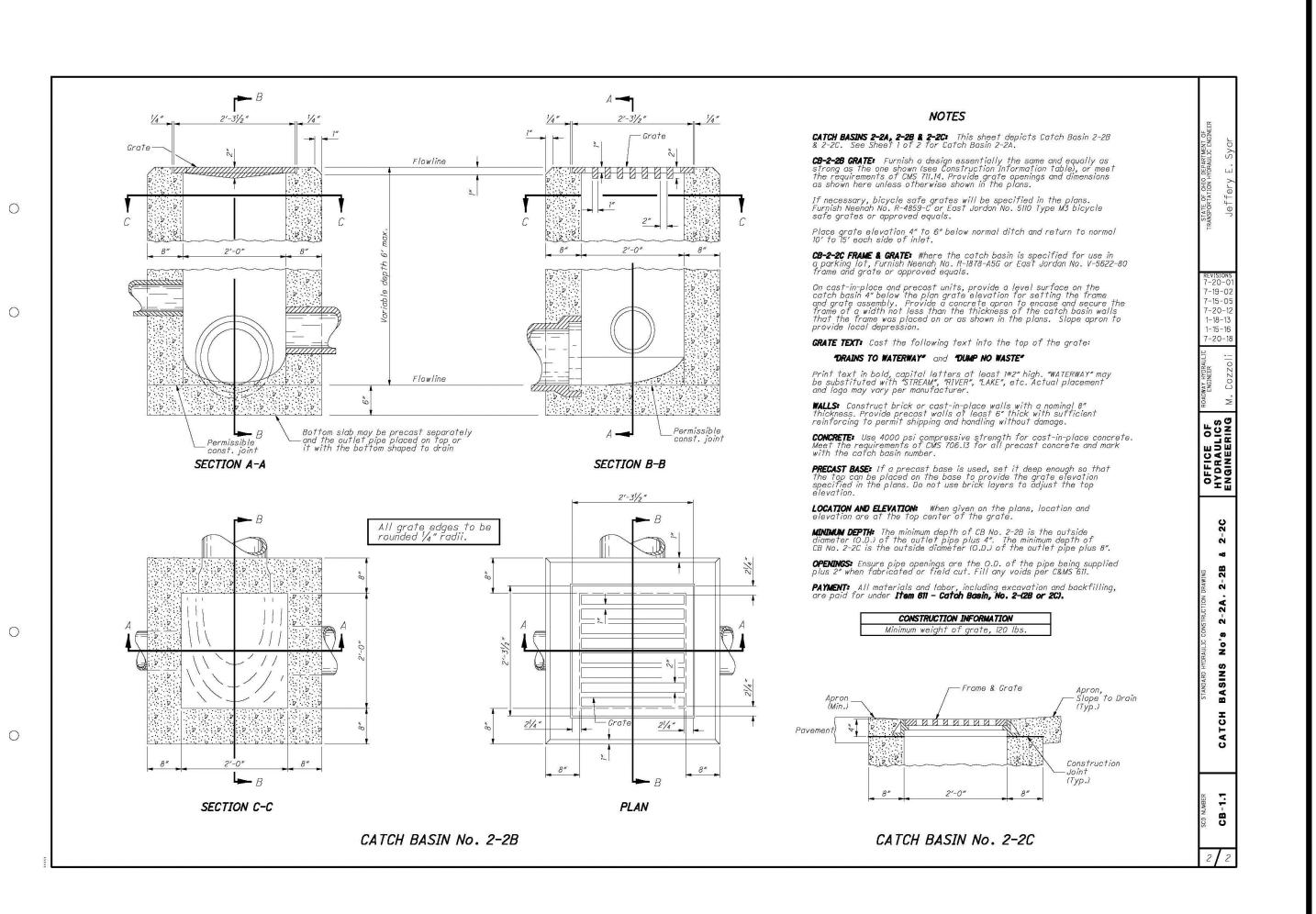
> SITE DETAILS

C105
Project No. 2024-183









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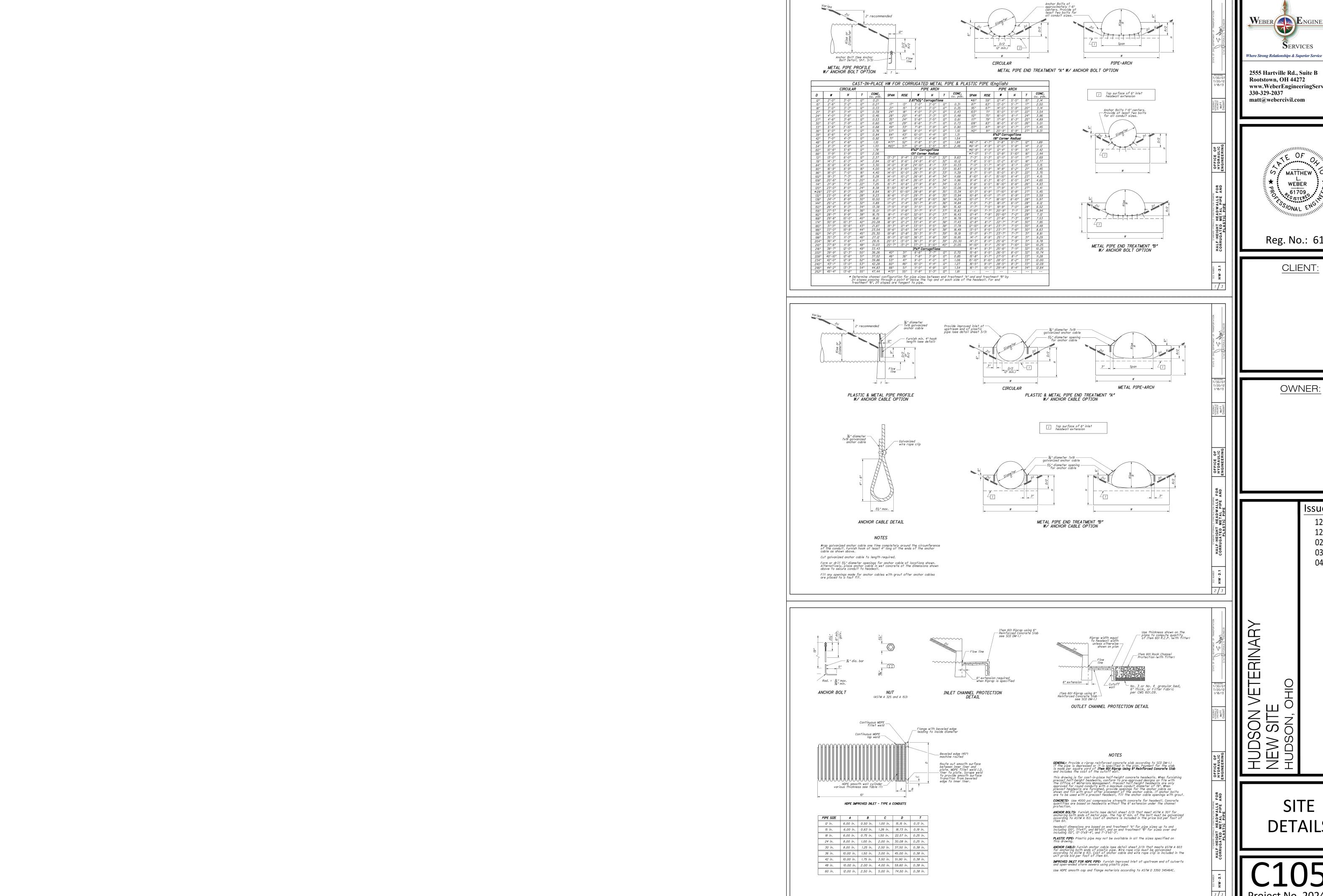
OWNER:

12-17-2024 12-19-2024 02-11-2025 03-17-2025 04-21-2025

UDSON VETERINARY IEW SITE UDSON, OHIO

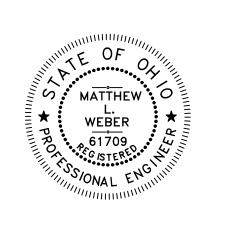
> SITE DETAILS

C105A
Project No. 2024-183



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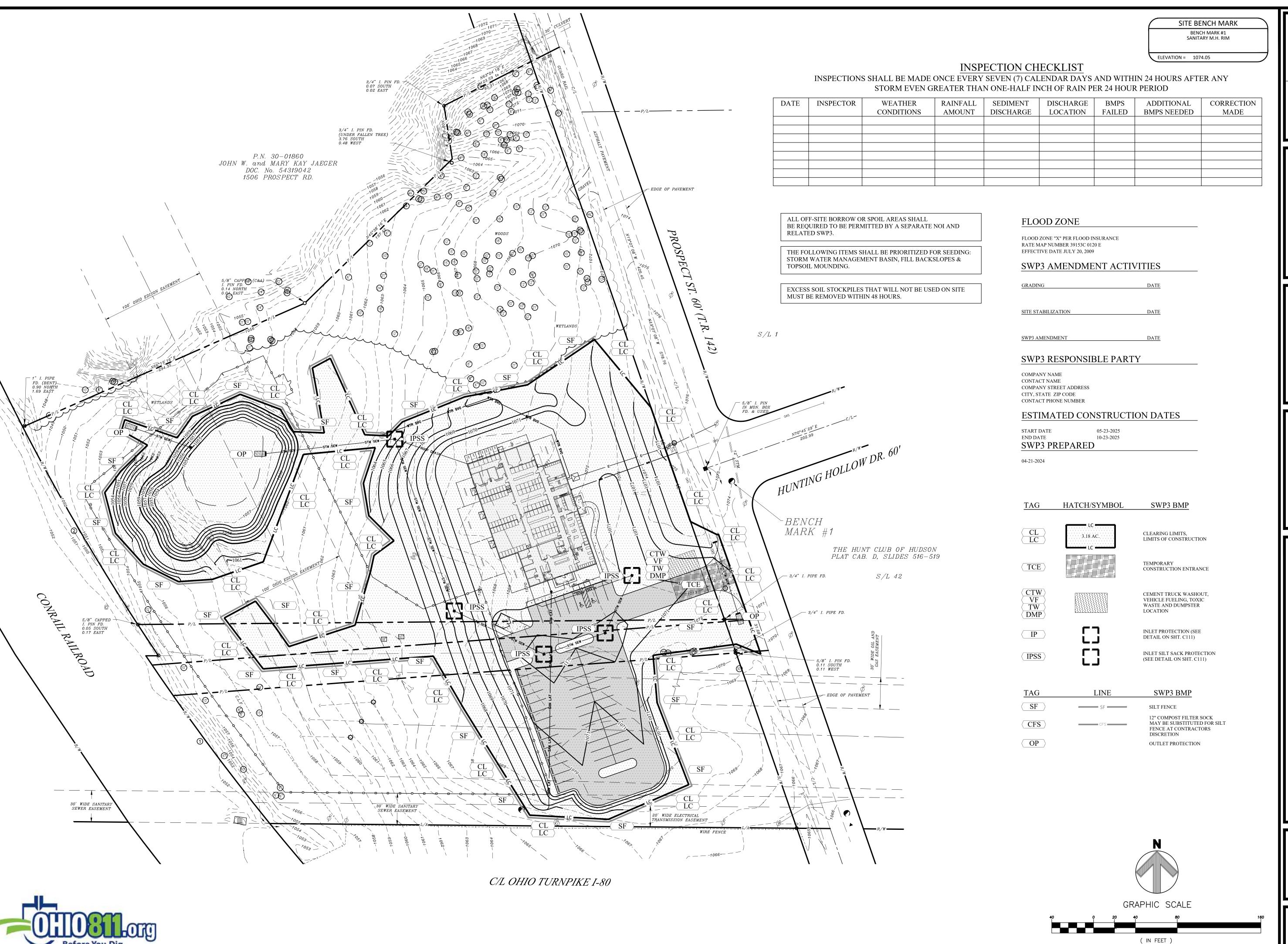
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Issue Date 12-17-2024 12-19-2024 02-11-2025 03-17-2025 04-21-2025

DETAILS



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CLIENT:

OWNER:

12-17-2024 12-19-2024 02-11-2025 03-17-2025 04-21-2025

HUDSOIN VEIEKIIN NEW SITE HUDSON, OHIO

> SWP3 PLAN

C106
Project No. 2024-183

1 inch = 40 ft.

SWP3 Amendment Log

Project Name: Hudson Veterinary Tree Clearing & ESCP

Amendment No.	Description of the Amendment	Date of Amendment	Amendment Prepared By

SWP3 Grading and Stabilization Activities Log

Project Name: Hudson Veterinary Tree Clearing & ESCP

Date Grading Activity Initiated	Description of Grading Activity	Date Grading Activity Ceased Indicate temporary or permanent	Data When Stabilization Measures are Initiated	Description of Stabilization Measure and Location

Subcontractor Certifications/Agreements

SUBCONTRACTOR CERTIFICATION STORMWATER POLLUTION PREVENTION PLAN

	2024-183
Project Title:	Hudson Veterinary Tree Clearing & ESCP
Operator(s):	Hudson Veterinary Hospital
work that you perfo substantial penaltie	you are required to comply with the Stormwater Pollution Prevention Plan (SWP3) for any rm on-site. Any person or group who violates any condition of the SWP3 may be subject to sor loss of contract. You are encouraged to advise each of the employees working on this rements of the SWP3. A copy of the SWP3 is available for review at the office trailer.
	engaged in activities at the construction site that could impact stormwater must be identifing certification statement:
	enalty of law that I have read and understand the terms and conditions of the SWP3 for
above designated p	roject and agree to follow the practices described in the SWP3.
This certification is h	nereby signed in reference to the above named project:
Company	
company:	
Address:	
Address: Telephone number: Type of construction	

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Reg. No.: 61709

CLIENT:

OWNER:

<u>Issue Date</u> 12-17-2024

12-19-2024 02-11-2025 03-17-2025 04-21-2025

ON VETERINARY SITE ON, OHIO

> SWP3 PLAN

C106A
Project No. 2024-183

Corrective Action Log

Project Name: Hudson Veterinary Tree Clearing & ESCP

Inspection Date	Inspector Name	Description of Corrective Action Needed (From Inspection Report)	Corrective Action Taken	Date Action Taken

SWP3 Inspection Report Log

Project Name: Hudson Veterinary Tree Clearing & ESCP

Inspection #	Name of Inspector	Date of Inspection	Rain Event	Type of Corrective Action Required
1				
2				
3				
3				
4				
5				
6				
7				
,				
8				
9				
10				
10				
11				
12				
10				
13				
14				
15				

CIIO Before You Dig

Delegation of Authority Form

Delegation of Authority

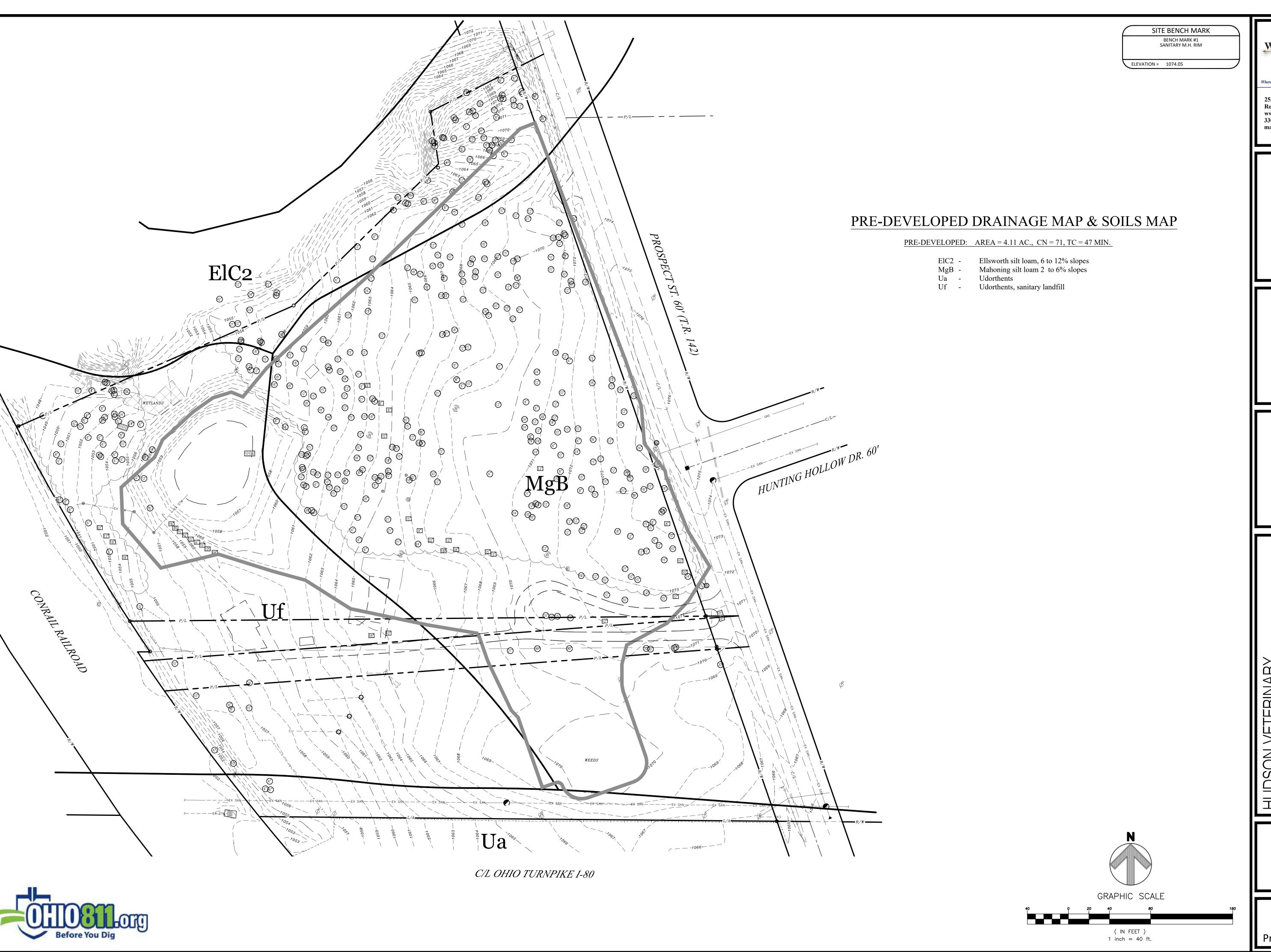
I, ______ (name), hereby designate the person or specifically described position below to be a duly authorized representative for the purpose of overseeing compliance with environmental requirements, including Ohio EPA's Construction General Permit (CGP), at the Hudson Veterinary Tree Clearing & ESCP construction site. The designee is authorized to sign any reports, stormwater pollution prevention plans, and all other documents required by the permit.

e of person or position
pany)
ess)
state, zip)
ie)

By signing this authorization, I confirm that I meet the requirements to make such a designation as set forth in Part V.G.2 of Ohio EPA's CGP.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: _	
Company: _	
Title:	
Signature:	
Date:	



Weber Engineering Services

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CLIENT:

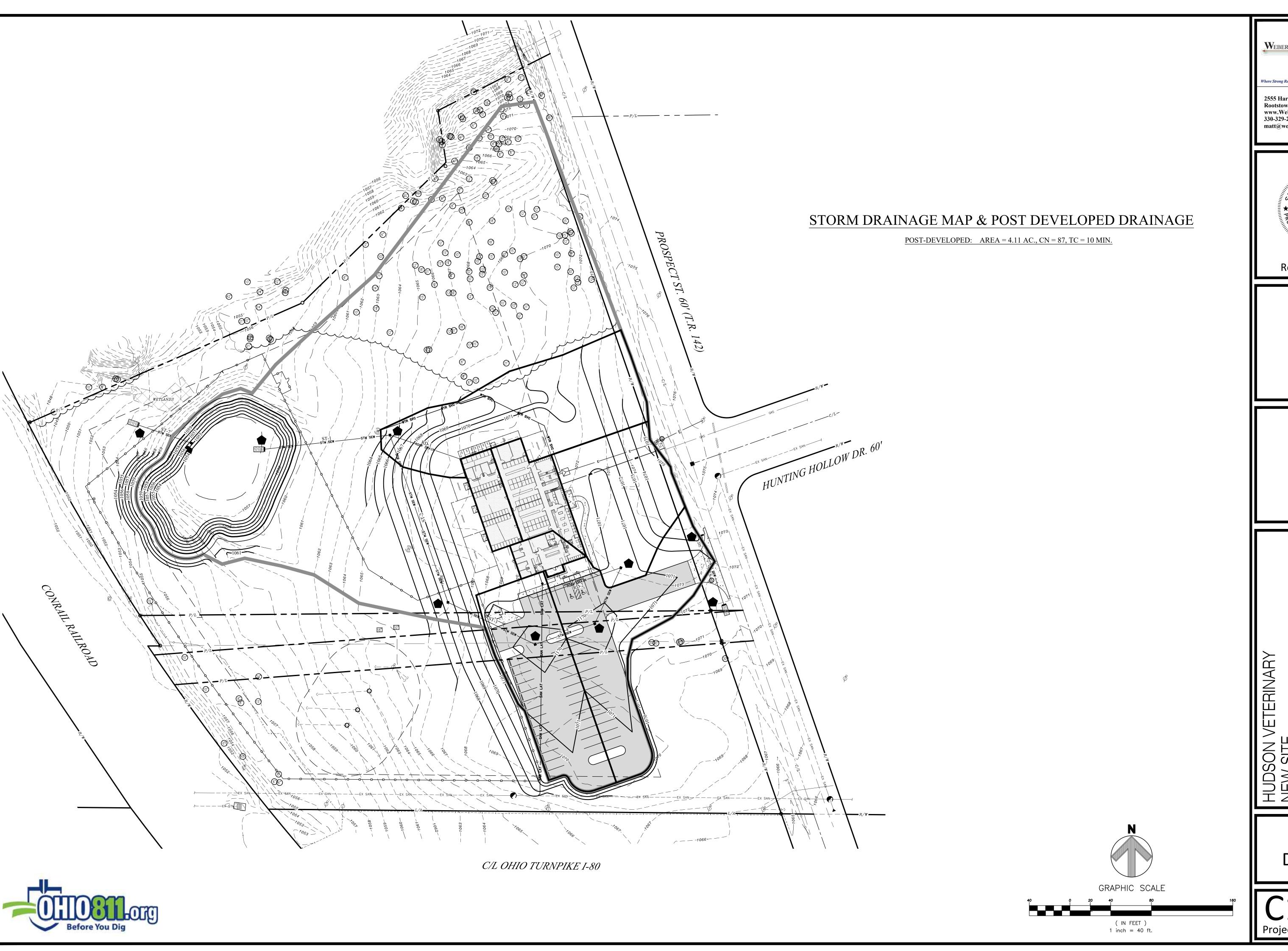
OWNER:

12-17-2024 12-19-2024 02-11-2025 03-17-2025 04-21-2025

DSON VETERINARY N SITE DSON, OHIO

> SWP3 DETAILS

C107
Project No. 2024-183



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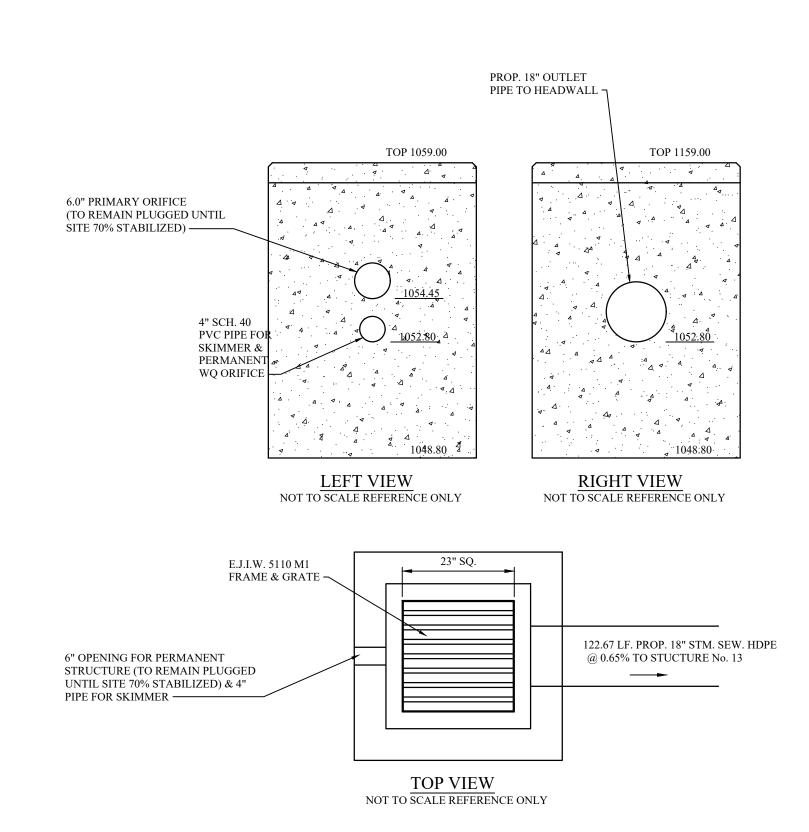
CLIENT:

OWNER:

Issue Date 12-17-2024 12-19-2024 02-11-2025 03-17-2025 04-21-2025

SWP3 **DETAILS**

VEGETATED EMERGENCY SPILLWAY ELEVATION 1059.50 TOP ELEVATION 1060.50 TOP ELEVATION 1060.50 EMERGENCY SPILLWAY REFERENCE ONLY



┌─ WATER-TIGHT SEALS

SHALL BE PROVIDED

122.67 LF. PROP. 18" STM. SEW. HDPE @ 0.65% TO STUCTURE No. 13

BETWEEN ALL STACKED, PRE-CAST RISER SECTIONS

PROP. GRADE

PROP. 12" THICK CLAY COLLAR ENTIRE WIDTH OF EXCAVATED TRENCH

O.D.O.T. CB 2-4

4" SCH. 40 PVC PIPE —

TOP 1059.00

=

TEMPORARY SKIMMER/OUTLET STRUCTURE No. 14

NOT TO SCALE REFERENCE ONLY

6.0" HOLE FOR MODIFICATION OF

MANAGEMENT ORIFICE ONCE SITE

IS 70% STABILIZED (<u>MUST</u> REMAIN PLUGGED/PLATED UNTIL SITE

PERMANENT STORM WATER

CONTRACTOR SHALL MAINTAN

UNTIL SITE IS STABILIZED ——

STABILIZED) —

AREA FREE OF DEBRIS



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OWNER:

Issue Date 12-19-2024 04-21-2025

DEWATERING ZONE 58,148 C.F. (PROVIDED) 10,386 C.F. (REQUIRED)

1052.80

BOTTOM 1044.00

SEDIMENT STORAGE ZONE _ 15,821 C.F. (PROVIDED) 5,770 C.F. (REQUIRED)

(2) #8 REBAR OR — T-CHANNEL GUIDE POSTS W/WIRE STOP SET AT TOP

PROP. $1\frac{1}{2}$ " SCH. 40 SOLID PVC

BARREL (SEE DETAIL THIS SHEET FOR DETAILS)

STONE PAD —

NO. 2 AGGREGATE PER CMS 703.01——

OF RISER

TEMPORARY 2.5"

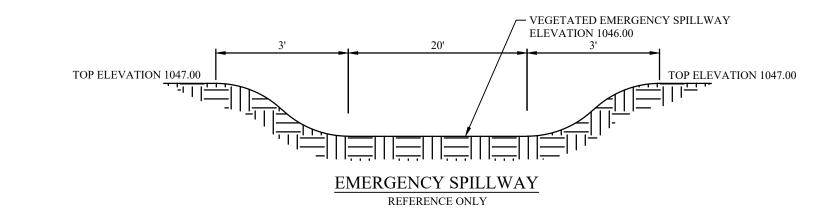
SKIMMER DEVICE W/ 1.9" ORIFICE —

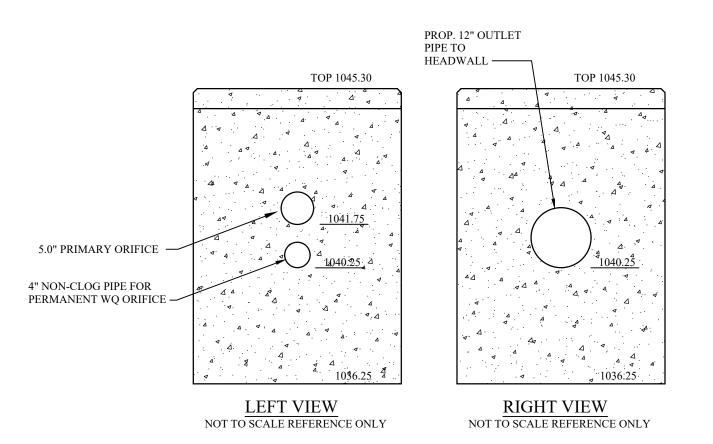
1052.80

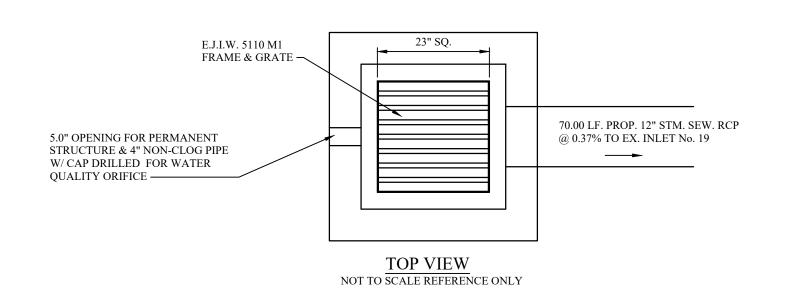
CONTRACTOR SHALL RE-ESTABLISH THE PERMANENT POND BOTTOM UPON

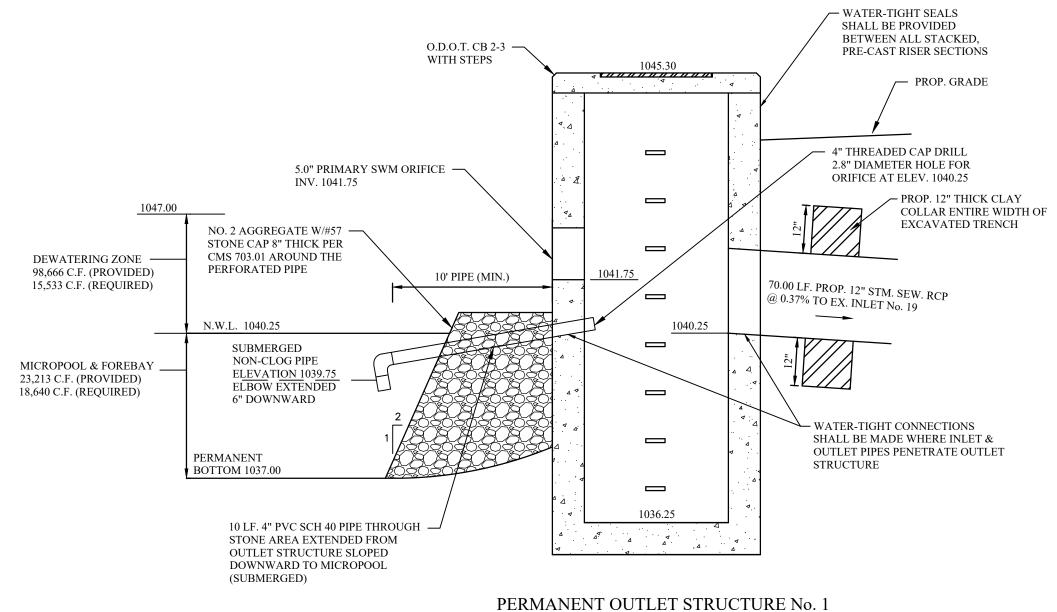
REMOVAL CONSTRUCTION SEDIMENT

CLEANOUT ELEVATION 1047.52









NON-CLOG FIGURE 2.6.3 OF OHIO RAINWATER AND LAND DEVELOPMENT MANUAL REFERENCE ONLY

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OWNER:

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VETERINARY HUDSON VETE NEW SITE HUDSON, OHIO

Prevent spills

•Use products up

• Follow label directions for disposal

•Remove lids from empty bottles and cans when disposing in trash

• Recycle wastes whenever possible

• Don't pour into waterways, storm drains or onto the ground

•Don't pour down the sink, floor drain or septic tanks

•Don't bury chemicals or containers

• Don't bum chemicals or containers

•Don't mix chemicals together

2. Containers shall be provided for the proper collection of all waste material including construction debris, trash, petroleum products and any hazardous materials used on-site. Containers shall be covered and not leaking. All waste material shall be disposed of at facilities approved for that material. Construction Demolition and Debris (CD&D) waste must be disposed of at an Ohio EPA approved CD&D landfill.

3. No construction related waste materials are to be buried on-site. By exception, clean fill (bricks, hardened concrete, soil) may be utilized in a way which does not encroach upon natural wetlands, streams or floodplains or result in the contamination of waters of the state.

4. Handling Construction Chemicals. Mixing. pumping. transferring or other handling of construction chemicals such as fertilizer. lime. asphalt. concrete drying compounds. and all other potentially hazardous materials shall be performed in an area away from any watercourse. ditch or storm drain.

5. Equipment Fueling and Maintenance, oil changing. etc .. shall be performed away from watercourses. ditches or storm drains. in an area designated for that purpose. The designated area shall be equipped for recycling oil and catching spills. Secondary containment shall be provided for all fuel oil storage tanks. These areas must be inspected every seven days and within 24 hrs. of a 0.5 inch or greater rain event to ensure there are no exposed materials which would contaminate storm water. Site operators must be aware that Spill Prevention Control and Countermeasures (SPCC) requirements may apply. An SPCC plan is required for sites with one single above ground tank of 660 gallons or more, accumulative above ground storage of 1330 gallons or more, or 42,000 gallons of underground storage. Contaminated soils must be disposed of in accordance with Item 8.

Concrete Wash Water shall not be allowed to flow to streams, ditches, storm drains, or any other water conveyance. A sump or pit with no potential for discharge shall be constructed if needed to contain concrete wash water. Field tile or other subsurface drainage structures within 10 ft. of the sump shall be cut and plugged.

Spill Reporting Requirements: Spills on pavement shall be absorbed with sawdust or kitty litter and disposed of with the trash at a licensed sanitary landfill. Hazardous or industrial wastes such as most solvents, gasoline, oil-based paints, and cement curing compounds require special handling. Spills shall be reported to Ohio EPA (1-800-282-9378). Spills of 25 gallons or more of petroleum products shall be reported to Ohio EPA, the local fire department, and the Local Emergency Planning Committee within 30 min. of the discovery of the release. All spills which contact waters of the state must be reported to Ohio EPA.

8. Contaminated Soils. If substances such as oil, diesel fuel, hydraulic fluid, antifreeze, etc. are spilled, leaked, or released onto the soil, the soil should be dug up and disposed of at licensed sanitary landfill or other approved petroleum contaminated soil remediation facility. (not a construction/demolition debris landfill). Note that storm water runoff associated with contaminated soils are not be authorized under Ohio EPA's General Storm Water Permit associated with Construction Activities.

Open Burning. No materials containing rubber, grease, asphalt, or petroleum products, such as tires, autoparts, plastics or plastic coated wire may be burned (OAC 3745-19). Open burning is not allowed in restricted areas, which are defined as: 1) within corporation limits; 2) within 1000 feet outside a municipal corporation having a population of 1000 to 10,000; and 3) a one mile zone outside of a corporation of 10, 000 or more. Outside of restricted areas, no open burning is allowed within a 1000 feet of an inhabited building on another property. Open burning is permissible in a restricted area for: heating tar, welding, smudge pots and similar occupational needs, and heating for warmth or outdoor barbeques. Outside of restricted areas, open burning is permissible for landscape or land-clearing wastes (plant material, with prior written permission from Ohio EPA), and agricultural wastes, excluding buildings.

10. Dust Control or dust suppressants shall be used to prevent nuisance conditions, in accordance with the manufacturer's specifications and in a manner, which prevent a discharge to waters of the state. Sufficient distance must be provided between applications and nearby bridges, catch basins, and other waterways. Application (excluding water) may not occur when rain is imminent as noted in the short term forecast. Used oil may not be applied for dust control.

11. Other Air Permitting Requirements: Certain activities associated with construction will require air permits including but not limited to: mobile concrete batch plants, mobile asphalt plants, concrete crushers, large generators, etc. These activities will require specific Ohio EPA Air Permits for installation and operation. Operators must seek authorization from the corresponding district of Ohio EPA. For demolition of all commercial sites, a Notification for Restoration and Demolition must be submitted to Ohio EPA to determine if asbestos corrective actions are required.

12. Process Waste Water/Leachate Management. Ohio EPA's Construction General Permit only allows the discharge of storm water and does not include other waste streams/discharges such as vehicle and/or equipment washing, on-site septic leachate concrete wash outs, which are considered process wastewaters. All process wastewaters must be collected and properly disposed at an approved disposal facility. In the event, leachate or septage is discharged; it must be isolated for collection and proper

disposal and corrective actions taken to eliminate the source of waste water.

13. A Permit To Install (PTn is required prior to the construction of all centralized sanitary systems, including sewer extensions, and sewerage systems (except those serving one, two, and three family dwellings) and potable water lines. Plans must be submitted and approved by Ohio EPA. Issuance of an Ohio EPA Construction General Storm Water Permit does not authorize the installation of any sewerage system where Ohio EPA has not approved a PTI.

OHIO EPA PERMIT NO. OHC000006

PART III G. SWP3 REQUIREMENTS

a. COMMERCIAL BUILDING EXPANSION

TOTAL SITE AREA - 0.00 AC. - DISTURBED AREA = 3.18AC.

PRE-CONSTRUCTION RUNOFF COEFFICIENT - C=0.90; POST-CONSTRUCTION RUNOFF COEFFICIENT C=0.90

IMPERVIOUS AREA = 0.00 AC. (ENTIRE SITE), PERCENT IMPERVIOUS = 00%.

• MgB MAHONING SILT LOAM

e. SOIL TYPES:

• ElC2 ELLSWORTH SILT LOAM

• Ln LORAIN SILTY CLAY LOAM

PRIOR LAND USE: UNDEVELOPED COMMERCIAL

CONSTRUCTION SEQUENCE - SEE IMPROVEMENT PLANS

UNNAMED TRIBUTARY TO CUYAHOGA RIVER

• NO WETLANDS

NOT SUBDIVIDED (MEASURES IDENTIFIED ON PLANS)

NOT APPLICABLE

k. PERMIT REQUIREMENTS ATTACHED. (FIELD COPY)

IDENTIFIED ON SHEET C106

m. IDENTIFIED ON SHEET C106

n. SITE MAP SHOWN ON PLANS

LIMITS OF CONSTRUCTION IDENTIFIED ON THE PLANS (LC).

SOIL TYPES IDENTIFIED ON THE PLANS

DRAINAGE WATER SHEDS IDENTIFIED ON THE PLANS.

THERE ARE NO WETLANDS ON THE SITE. NO SPRINGS, LAKES OR WATER WELLS WITHIN 200 FEET OF THE SITE.

EXISTING & PLANNED LOCATIONS OF BUILDINGS, ROADS, PARKING FACILITIES AND UTILITIES ARE IDENTIFIED ON THE PLANS.

THE PLANS. (vii) SEDIMENT & STORM WATER MANAGEMENT DATA IS IDENTIFIED ON

EROSION AND SEDIMENT CONTROL PRACTICES ARE IDENTIFIED ON

(viii) PERMANENT STORM WATER MANAGEMENT PRACTICES ARE

IDENTIFIED ON THE PLANS. CEMENT TRUCK WASHOUT, DUMPSTER & VEHICLE FUELING AREA

ARE IDENTIFIED ON THE PLANS. CONSTRUCTION ENTRANCE IS IDENTIFIED ON THE PLANS.

NOT APPLICABLE

2. A. NOT APPLICABLE.

B. TEMPORARY SEEDING AND PERMANENT SEEDING MEASURES ARE IDENTIFIED ON THE PLANS.

(I) TABLE 1 & TABLE 2 HAVE BEEN IDENTIFIED ON THE PLANS. (II)NOT APPLICABLE.

SHEET FLOW RUNOFF HAS BEEN CONTROLLED BY MEANS OF SILT FENCE AND DIRECTED TOWARDS UNDISTURBED SOILS. POINT DISCHARGES HAVE BEEN CONTAINED WITHIN STORM SEWERS.

D. SEDIMENT CONTROL HAS BEEN MANAGED BY MEANS OF SILT FENCE.

NOTED THROUGHOUT THE PLANS.

SILT FENCE UTILIZED.

SILT FENCE IS IDENTIFIED ON THE PLANS.

(IV) INLET PROTECTION IS IDENTIFIED ON THE PLANS.

NOT APPLICABLE.

(VI) NOTED ON THE IMPROVEMENT PLANS.

POST-CONSTRUCTION MAINTENANCE AND INSPECTION IS IDENTIFIED ON THE PLANS.

LARGE CONSTRUCTION ACTIVITIES - NOT APPLICABLE SMALL CONSTRUCTION ACTIVITIES - RATIONALE IDENTIFIED ON PLANS

F. SURFACE WATER PROTECTION - NOT APPLICABLE

G. OTHER CONTROLS

(I) CEMENT TRUCK WASHOUT AREA IS IDENTIFIED ON THE PLANS. (II)DUST CONTROL MEASURES AND VEHICLE TRACKING ARE IDENTIFIED

ON THE PLANS. ADDITIONAL NOTES ARE IDENTIFIED ON THE PLANS.

NOTED ON THE PLANS.

(V) NOTED ON THE PLANS.

H. NOTED THROUGHOUT THE PLANS.

I. INSPECTION FREQUENCY AND INSPECTION CHECKLIST IS NOTED ON THE PLANS.

NOTED ON THE PLANS.

NOTED ON THE PLANS.

STATEMENT NOTED.

APPROVED STATE OR LOCAL PLANS

STATEMENT NOTED.

4. EXCEPTIONS STATEMENT NOTED.

CONSTRUCTION SEQUENCE

(ALL ITEMS ARE TO BE THE RESPONSIBILITY OF THE GENERAL SITE

CONTRACTOR) SITE PREPARATION

PROVIDE SAFE AND SECURE PEDESTRIAN AND VEHICULAR TRAFFIC CIRCULATION THROUGHOUT THE ENTIRETY OF THE CONSTRUCTION SEQUENCE WITH WELL DEFINED CONSTRUCTION BOUNDARIES TO BE ACCESSED BY CONSTRUCTION PERSONNEL ONLY. ALL EROSION CONTROLS ARE TO BE THOROUGHLY INSPECTED BY THE CONTRACTOR UPON THE COMPLETION OF EACH WORK DAY AND MAINTAINED THROUGHOUT THE REQUIRED LIFE OF THE CONTROL, AS SPECIFIED BY THE APPROVED EROSION AND SEDIMENTATION CONTROL PLANS AND NARRATIVE. THE CONTRACTOR MUST REVIEW THE APPROVED EROSION AND SEDIMENTATION CONTROL PLANS AND NARRATIVE. THE CONTRACTOR MUST REVIEW THE APPROVED NPDES PERMIT AND SIGN THE PERMIT TO ACCEPT RESPONSIBILITIES AS THE CO-PERMITEE.

INITIAL PHASE (WITHIN 7 DAYS OF START OF GRUBBING)

1. INSTALL A TEMPORARY CONSTRUCTION ENTRANCE FOR ACCESS TO CONSTRUCTION AREAS OF SITE.

2. SETUP CONSTRUCTION TRAILER ON SITE AND ESTABLISH TEMPORARY POWER AND TELEPHONE SERVICE AS NECESSARY.

3. ALL TEMPORARY UTILITY SERVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

4. STAKEOUT LIMITS OF DISTURBANCE.

INSTALL TEMPORARY INLET PROTECTION ON ALL EXISTING CATCH BASINS WITHIN LIMITS OF CONSTRUCTION. REMOVE SILT PROTECTION FROM DESIGNATED INLETS ONLY WHEN INLET STRUCTURE IS TO BE REMOVED AS REQUIRED BY PROGRESSION OF CONSTRUCTION. REFER TO PLANS FOR IDENTIFICATION OF INLET STRUCTURES TO BE REMOVED.

6. INSTALL ALL FILTER FABRIC FENCE WHERE SHOWN ON PLANS.

7. BEGIN SITE CLEARING

8. REMOVE TOPSOIL FROM AREAS OF BUILDING AND PAVEMENT.

9. BEGIN EARTHWORK OPERATIONS.

10. CONSTRUCT STORM WATER BASIN.

11. IN THE EVENT OF RAIN, ALLOW STANDING WATER TO SETTLE PRIOR TO PUMPING. UTILIZE THE PUMPING SYSTEMS TO PUMP POLLUTED WATER PER E.P.A. REQUIREMENTS. ALLOW ONLY CLEAN WATER TO BE DISCHARGED TO THE EXISTING DRAINAGE SYSTEM. REMOVE SILT FROM BASINS AS NECESSARY PRIOR TO CONTINUING EARTHWORK. MATERIAL SHOULD BE MECHANICALLY SPREAD AND DRIED PRIOR TO INCORPORATION INTO THE EARTHWORK PROCEDURES. ADEQUACY OF THE DRIED MATERIAL IS TO BE DETERMINED BY A GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE AND ENSURE THAT PROPER MECHANISMS ARE IN PLACE TO CONTROL WASTE MATERIALS. CONSTRUCTION WASTES INCLUDES, BUT ARE NOT LIMITED TO, EXCESS SOIL MATERIALS, BUILDING MATERIALS, CONCRETE WASH WATER, SANITARY WASTES, ETC., THAT COULD ADVERSELY IMPACT WATER QUALITY. MEASURES SHALL BE PLANNED AND IMPLEMENTED FOR HOUSEKEEPING, MATERIALS MANAGEMENT, AND LITTER CONTROL. WHEREVER POSSIBLE, RECYCLING OF EXCESS MATERIALS IS PREFERRED, RATHER THAN DISPOSAL.

INTERIM PHASE GENERAL CONSTRUCTION

MAINTAIN TEMPORARY CONTROLS UNTIL REMOVAL IS WARRANTED DUE TO PROGRESSION OF WORK.

2. BEGIN EARTHMOVING OPERATIONS. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE COUNTY CONSERVATION DISTRICT OF LOCATION AND EROSION AND SEDIMENTATION CONTROL MEASURES IMPLEMENTED AT BORROW OR SPOIL SITE OF IMPORT/EXPORT MATERIAL. THE CONTRACTOR

IS TO COORDINATE WITH OWNER THE PLACEMENT OF SUCH MEASURES.

3. STORM SEWER, SANITARY SEWER, WATER LINE AND UTILITY LINE CONSTRUCTION MAY BEGIN IMMEDIATELY FOLLOWING ESTABLISHMENT OF GRADE AND WITH THE PERMISSION OF THE OWNER.

4. STABILIZE ALL UTILITY TRENCHES AT THE END OF EACH WORKDAY BY

MEANS OF GRAVEL BACKFILL TO SURFACE, REPAVING OR MULCHING.

5. REPLACE TOPSOIL, FINE GRADE AND SEED AS REQUIRED. 6. STABILIZE ALL DISTURBED AREAS WITH PERMANENT SEED AND MULCHING OR CROWNVETCH SEEDING IMMEDIATELY UPON REACHING FINAL GRADE.

7. INSTALL PAVEMENT SUBBASE. 8. BEGIN BITUMINOUS PAVING, REMOVING TEMPORARY CONSTRUCTION ENTRANCE ONLY WHEN NECESSARY.

9. RESEED AND REDRESS ANY AREAS THAT MAY REQUIRE ATTENTION IMMEDIATELY. NOTE THAT LAWN AREAS WILL NOT BE DEEMED STABLE

UNTIL A UNIFORM 80% COVERAGE IS ACHIEVED. 10. ALL EROSION MEASURES SHALL REMAIN IN PLACE UNTIL THE SITE IS STABILIZED. ALL AREAS OF VEGETATIVE SURFACE STABILIZATION, WHETHER TEMPORARY OR PERMANENT, SHALL BE CONSIDERED TO BE IN PLACE AND FUNCTIONAL WHEN THE REQUIRED UNIFORM RATE OF

FINAL PHASE POST-PAVING BASIN CONVERSION

COVERAGE (80%) IS OBTAINED.

IF, FOR ANY REASON, THE PROJECT IS SUSPENDED, THE CONTRACTOR SHALL INSURE THAT ALL INSTALLED EROSION MEASURES ARE FUNCTIONING AND PROPERLY MAINTAINED DURING THIS PERIOD, AND THAT ALL BARED SOILS ARE SEEDED AND MULCHED WITH TEMPORARY SEED MIXTURE.

2. THE FOLLOWING ITEMS MUST BE COMPLETED BY THE CONTRACTOR, IN ORDER, ONCE THE SITE HAS BEEN DEEMED STABLE:

A. REMOVE SEDIMENT CONTROL DEVICES AND ESTABLISH WATER QUALITY CONTROL ORIFICE.

B. REMOVE TEMPORARY CONSTRUCTION ENTRANCE PRIOR TO

COMPLETION OF PAVING.

C. SITE CLEAN UP.

RESEED ANY AREAS THAT REQUIRE ADDITIONAL SEED

FILTER FENCES ARE TO BE CLEANED, REMOVED, BACKFILLED AND SEEDED WITH PERMANENT SEEDING.

VERIFY POSITIVE CONVEYANCE FLOW IN ALL DRAINAGE STRUCTURES.

SPECIFICATIONS FOR TEMPORARY SEEDING

TEMPORARY SEEDING SPECIES SELECTION				
SEEDING DATES	SPECIES	LB/100 FT^2	LB/ACRE	
MARCH 1 TO AUGUST 15	OATS TALL FESCUE ANNUAL RYEGRASS	3 1 1	128 (4 BUSHEL) 40 40	
	PERENNIAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS	1 1 1	40 40 40	
	ANNUAL RYEGRASS PERENNIAL RYEGRASS CREEPING RED FESCUE KENTUCKY BLUEGRASS	1.25 3.25 0.4 0.4	55 142 17 17	
	OATS TALL FESCUE ANNUAL RYEGRASS	3 1 1	128 (3 BUSHELS) 40 40	
AUGUST 16TH TO NOVEMBER	RYE TALL FESCUE ANNUAL RYEGRASS	3 1 1	112 (2 BUSHEL) 40 40	
	WHEAT TALL FESCUE ANNUAL RYEGRASS	3 1 1	120 (BUSHEL) 40 40	
	PERENNIAL RYE TALL FESCUE ANNUAL RYEGRASS	1 1 1	40 40 40	
	ANNUAL RYEGRASS PERENNIAL RYEGRASS CREEPING RED FESCUE KENTUCKY BLUEGRASS	1.25 3.25 0.4 0.4	40 40 40	
NOVEMBER 1 TO FEB. 29	USE MULCH ONLY FOR DORMANT SEEDING			
NOTE: OTHER ADDROV	/ED SDECIES MAV DE SHRSTIT	THED		

NOTE: OTHER APPROVED SPECIES MAY BE SUBSTITUTED

STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS AND SEDIMENT TRAPS SHALL BE INSTALLED AND STABILIZED WITH TEMPORARY SEEDING PRIOR TO GRADING THE REST OF THE CONSTRUCTION-SITE

TEMPORARY SEED SHALL BE APPLIED BETWEEN CONSTRUCTION OPERATIONS ON SOIL THAT WILL NOT BE GRADED OR REWORKED FOR 14 DAYS OR MORE. THESE IDLE AREAS SHOULD BE SEEDED AS SOON AS POSSIBLE AFTER GRADING OR SHALL BE SEEDED WITHIN 7 DAYS. SEVERAL APPLICATIONS OF TEMPORARY SEEDING ARE NECESSARY ON TYPICAL CONSTRUCTION PROJECTS

THE SEEDBED SHALL BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION. HOWEVER, TEMPORARY SEEDING SHALL NOT BE POSTPONED IF IDEAL SEEDBED

4. SOIL AMENDMENTS--APPLICATIONS OF TEMPORARY VEGETATION SHALL ESTABLISHED ADEQUATE STANDS OF VEGETATION WHICH MAY REQUIRE THE USE OF SOIL AMENDMENTS. SOIL TESTS SHOULD BE TAKEN ON THE SITE TO PREDICT THE NEED FOR LIME AND FERTILIZER

5. SEEDING METHOD--SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. WHEN FEASIBLE, SEED THAT HAS BEEN BROADCAST SHALL BE COVERED BY RAKING OR DRAGGING AND THEN LIGHTLY TAMPED INTO PLACE USING A ROLLER OR CULTIPACKER. IF HYDROSEEDING IS USED, THE SEED AND FERTILIZER WILL BE MIXED ON-SITE AND THE SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT INTERRUPTION

MULCHING TEMPORARY SEEDING

APPLICATIONS OF TEMPORARY SEEDING SHALL INCLUDE MULCH WHICH SHALL BE APPLIED DURING OR IMMEDIATELY AFTER SEEDING. SEEDINGS MADE DURING OPTIMUM SEEDING DATES AND WITH FAVORABLE SOIL CONDITIONS AND ON VERY FLAT SOIL CONDITIONS MAY NOT NEED MULCH TO ACHIEVE ADEQUATE STABILIZATION.

MATERIALS: STRAW--IF STRAW IS USED, IT SHALL BE UNROTTED SMALL-GRAIN APPLIED AT 2 TONS/AC, OR 90 LB / 1 000 SO, FT. (TWO TO THREE BALES), THE MULCH, SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF 45 LB BALES OF STRAW IN EACH SECTION HYDROSEEDERS--IF WOOD CELLULOSE FIBER IS USED IT SHALL BE USED AT 2,000 LB. / AC. OR 46 LB. /1,000 SQ. FT. OTHER--OTHER ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OI WOOD CHIPS APPLIED AT 6 TONS / AC

STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER. ANCHORING METHODS: MECHANICAL --A DISK CRIMPER OR SIMILAR TYPE TOOL SHALL BE SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT, GENERALLY BE LEFT LONGER THAN 6 IN. MULCH NETTINGS--NETTINGS SHALL BE USED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS NETTING MAY BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATED RUNOFF AND ON CRITICAL SLOPES. SYNTHETIC BINDERS--SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC) DCA-70, PETROSET, TERRA-TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER. WOOD-CELLULOSE FIBRE--WOOD-CELLULOSE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LB. /AC. THE WOOD-CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB. / 100 GAL

BMP INSPECTION CHECKLIST

BMP	FREQUENCY	NOTES
GENERAL INSPECTION	EVERY 6 MO.	
STORM WATER BASIN	MONTHLY	
VEGETATION	MONTHLY	FIRST 2 GROWING
		SEASONS THEN TWICE
		A YEAR
SILT FENCE	MONTHLY	FIRST GROWING SEASON

REGULAR INSPECTION AND MAINTENANCE WILL BE PROVIDED FOR ALL EROSION AND SEDIMENT CONTROL PRACTICES, PERMANENT RECORDS OF MAINTENANCE AND INSPECTIONS MUST BE KEPT THROUGHOUT THE CONSTRUCTION PERIOD. INSPECTIONS MUST BE MADE A MINIMUM OF ONCE EVERY 7 DAYS AND IMMEDIATELY AFTER STORM EVENTS GREATER THAN 0.5 INCHES OF RAIN IN A 24 HOUR PERIOD. PROVIDED WILL BE NAME OF INSPECTOR, MAJOR OBSERVATIONS, DATED OF INSPECTION AND CORRECTIVE MEASURES TAKEN. RECORDS SHALL L BE SUBMITTED TO THE CITY OF HUDSON ENGINEERING DEPARTMENT FOR REVIEW BY MAY 1st OF EACH YEAR.

ALL CONTROL PRACTICES THAT REQUIRE REPAIR SHALL BE REPAIRED WITHIN THREE (3) DAYS OF THE INSPECTION.

ADDITIONAL SWP3 CONSIDERATIONS

NO OPEN BURNING

DUST CONTROL SHALL BE ACHIEVED BY USE OF WATERING TRUCKS. USE OF OIL IS STRICTLY PROHIBITED. INLET PROTECTION MUST BE IMPLEMENTED PRIOR TO DUST CONTROL MEASURES.

IN THE EVENT OF A PETROLEUM SPILL (>25 GALLONS) OR THE PRESENCE OF OIL SHEEN, THE CONTRACTOR SHALL CONTACT THE OHIO E.P.A. AT 800-282-9378, THE LOCAL FIRE DEPARTMENT.

SMALL SPILLS (<25 GALLONS) SHALL BE CLEANED UP USING AN ABSORBING AGENT, THE ABSORBING AGENT REMOVED AND DISPOSED OF ACCORDING TO FEDERAL REGULATIONS.

ALL TRENCH DEWATERING MEASURES SHALL BE DISCHARGED INTO SETTLING BASINS PRIOR TO DISCHARGE FROM SITE. BMP'S THAT REQUIRE REPAIR SHALL BE REPAIRED WITHIN 3 DAYS OF INSPECTION. SETTLING PONDS MUST BE REPAIRED WITHIN 10 DAYS OF INSPECTION.

STREETS ADJACENT TO SITE SHALL BE CLEANED AT THE END OF EACH WORK

POST-CONSTRUCTION BMP RATIONALE

STORM WATER MANAGEMENT AND POST CONSTRUCTION WATER QUALITY BMP'S HAVE BEEN ADDRESSED BY MEANS OF AN ON-SITE STORM WATER MANAGEMENT/WATER QUALITY BASIN.

MAINTENANCE F	OR PERMA	ANENT SE	EDINGS 1	FERTILIZATION AN	ID MOWING
MIXTURE	FORMULA	LBS./ACRE	LBS./1,000 SQ. FT	TIME	MOWING
CREEPING RE FESCUE RYEGRASS KEENTCKY BLUEGRASS	10-10-10	500	12	FALL, YEARLY AS NEEDED	NOT CLOSER THAN 3"
TALL FESCUE	10-10-10	500	12	TABLE DE	NOT CLOSE
TURF-TYPE FESCUE	10-10-10	500	12		THAN 4"
CROWN VETCH FESCUE	0-20-20	400	10	SPRING, YEARLY FOLLOWING ESTABLISHMENT AND EVERY 4-7	DO NOT MOW
FLAT PEA FESCUE	0-20-20	400	10	YEARS THEREAFTER	DO NOT MOV

SPECIFICATIONS FOR PERMANENT SEEDING

SITE PREPARATION

1. A SUBSOILER, PLOW OR OTHER IMPLEMENT SHALL BE USED TO REDUCE SOIL COMPACTION AND ALLOW MAXIMUM INFILTRATION (MAXIMIZING INFILTRATION WILL HELP CONTROL BOTH RUNOFF RATE AND WATER QUALITY.) SUBSOILING SHOULD BE DONE WHEN THE SOIL MOISTURE IS LOW ENOUGH TO ALLOW THE SOIL T CRACK OR FRACTURE. SUBSOILING SHALL NOT BE DONE ON SLIP-PRONE AREAS WHERE SOIL PREPARATION SHOULD BE LIMITED TO WHAT IS NECESSARY FOR

2. THE SITE SHALL BE GRADED AS NEEDED TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION AND SEEDING.

3. TOPSOIL SHALL BE APPLIED WHERE NEEDED TO

ESTABLISH VEGETATION, SEEDBED PREPARATION LIME--AGRICULTURAL GROUND LIMESTON SHALL BE APPLIED TO ACID SOIL AS

COMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, LIME SHALL BE APPLIED AT THE RATE OF 100 LB./1,000 SQ. FT. OR 2 TONS/ACRE. FERTILIZER--FERTILIZER SHALL BE APPLIED AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, FERTILIZER SHALL BE APPLIED AT A

RATE OF 25 LB./1,000 SO. FT. OR 1000 LB./ACRE OF 0-10-10 OR 12-12-12 ANALYSES. THE LIME AND FERTILIZER SHALL BE WORKED INTO THE SOIL WITH A DISK HARROW, SPRING-TOOTH HARROW OR OTHER SUITABLE FIELD IMPLEMENT TO A DEPTH OF 3 INCHES. ON SLOPING LAND, THE SOIL SHALL BE WORKED ON

EROSION PREVENTION PRACTICES SEEDING DATES AND SOIL CONDITIONS

ESTABLISHING VEGETATION

SEEDING SHOULD BE DONE MARCH 1 TO MAY 31 OR AUG 1 TO SEPTEMBER 30. IF SEEDING OCCURS OUTSIDE OF THE ABOVE SPECIFIED DATES ADDITIONAL MULCH AND IRRIGATION MAY BE REQUIRED TO ENSURE A MINIMUM OF 80% GERMINATION TILLAGE FOR SEEDBED PREPARATION SHOULD BE DONE WHEN SOIL IS DRY ENOUGH TO CRUMBLE AND NOT FORM RIBBONS WHEN COMPRESSED BY HAND, FOR WINTER SEEDING, SEE THE FOLLOWING SECTION ON

SEEDINGS SHOULD NOT BE MADE FROM OCTOBER THROUGH NOVEMBER 20. DURING THIS PERIOD, TH SEEDS ARE LIKELY TO GERMINATE BUT PROBABLY WILL NOT BE ABLE TO SURVIVE THE WINTER.

2. THE FOLLOWING METHODS MAY BE USED FOR

FROM OCTOBER 1 THROUGH NOVEMBER 20 PREPARI THE SEEDBED, ADD THE REQUIRED AMOUNTS OF LIME AND FERTILIZER, THEN MULCH AND ANCHOR. AFTER NOVEMBER 20, BROADCAST THE SELECTED SEED MIXTURE AT A 50% INCREASE IN THE SEEDING RATE.

FROM NOVEMBER 20 THROUGH MARCH 15 WHEN SOIL

ONDITIONS PERMIT, PREPARE THE SEEDBED,

MIXTURE, MULCH AND ANCHOR. INCREASE THE

SEEDING RATES BY 50% FOR THIS TYPE OF SEEDING APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER DRILL, CULTIPACKER SEEDER OR HYDRO-SEEDER (SLURRY MAY INCLUDE SEED AND FERTILIZER) ON A FIRM, MOIST SEEDBED.

FOLLOW THE CONTOUR WHERE FEASIBLE.

AND FERTILIZE, APPLY THE SELECTED SEED

WHERE FEASIBLE, EXCEPT WHEN A CULTIPACKER TYPE SEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A CULTIPACKER, ROLLER OR LIGHT DRAG. ON

SEED MIX

DOMESTIC RYEGRASS

KENTUCKY BLUEGRAS:

TALL FESCUE

TURF- TYPE (DWARF)

TALL FESCUE

TALL FESCUE

TALL FESCUE

TURF-TYPE

(DWARF) FESCUE

KENTUCKY BLUEGRASS

KENTUCKY BLUEGRASS

KENTUCKY BLUEGRASS

ANY AREAS WITHIN 50 FEET OF A SURFACE

DISTURBED AREAS THAT WILL BE IDLE OVER

WATER OF THE STATE

PERENNIAL RYEGRASS

CREEPING RED FESCUE

MULCH MATERIAL SHALL BE APPLIED IMMEDIATELY AFTER SEEDING. DORMANT SEEDING SHALL BE MULCHED, 100% OF THE GROUND SURFACE SHALL BE COVERED WITH AN APPROVED MATERIA

STRAW--IF STRAW IS USED IT SHALL BE UNROTTED SMALL-GRAIN STRAW APPLIED AT THE RATE OF 2 TONS/ACR OR 90 LB./1,000 SQ. FT. (TWO TO THREE BALES). THE MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICAL THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF DIVIDE AREA INTO APPROXIMATELY 1,000-SQ.-FT

HAND-SPREAD MULCH, SECTIONS AND SPREAD TWO 45-LB. BALES OF STRAW IN EACH SECTION. HYDROSEEDERS--IF WOOD CELLULOSE FIBER IS USED. IT SHALL BE USED AT 2,000 LB./ACRE. OR 46 LB./1,000 SQ. FT. OTHER--OTHER ACCEPTABLE MULCHES INCLUDE ROLLED EROSION CONTROL MATTINGS OR BLANKETS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6

STRAW AND MULCH ANCHORING METHODS STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER.

MECHANICAL--A DISK, CRIMPER OR SIMILAR TYPE TOOL SHALL BE SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT GENERALLY LEFT LONGER THAN 6 IN MULCH NETTINGS-NETTINGS SHALL BE USED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. NETTING MAY BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATED RUNOFF AND ON CRITICAL SLOPES.

SYNTHETIC BINDERS-SYNTHETIC BINDERS SUCH AS

ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TACK OR EQUIVALENT MAY BE USED AT RATES SPECIFIED BY THE MANUFACTURER

EROSION PREVENTION PRACTICES

WOOD CELLULOSE FIBER--WOOD CELLULOSE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LBS./ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED OF 50 LBS. CELLULOSE/100 GALLONS OF WATER IRRIGATION
I. PERMANENT SEEDING SHALL INCLUDE IRRIGATION TO

ON ADVERSE SITE CONDITIONS, WHICH REQUIRE DEQUATE MOISTURE FOR SEED GERMINATION AND

FROM EXCESSIVE RUNOFF.

PERMANENT SEEDING

LBS./ACRE LBS./1,000

1/4-1/2

1/2-1

 $1-1\frac{1}{4}$

 $2\frac{1}{4}$

1-1/4

1/4-1/2 1/2-3/4

1/2-3/4

1/2-3/4

1-1 1/4

2 1/4

1-1/2

GENERAL USE

STEEP BANKS OR CUT SLOPES

40-50

20-25 20-30

40-50

100-120

NOTE: OTHER APPROVAL SEED SPECIES MAY BE SUBSTITUTED.

ROAD DITCHES AND SWALES

LAWNS

SEEDING RATE

IRRIGATION RATES SHALL BE MONITORED TO

ESTABLISH VEGETATION DURING DRY WEATHER OR

PREVENT EROSION AND DAMAGE TO SEEDED AREAS

NOTES

FOR CLOSE MOWING &

FOR WATERWAYS

WITH<2.0 FT/SEC

VELOCITY

DO NOT SEED LATER

THAN AUGUST

DO NOT SEED LATER

THAN AUGUST

FOR SHADED AREAS

DISTURBANCE
WITHIN TWO DAYS OF REACHING FINAL GRADE

AREAS MUST BE STABILIZED AT LEAST SEVEN

DAYS PRIOR TO TRANSFER OF PERMIT

COVERAGE FOR THE INDIVIDUAL LOT(S)

PRIOR TO THE ONSET OF WINTER WEATHER

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WATER OF THE STATE AND AT FINAL GRADE WITHIN SEVEN DAYS OF REACHING FINAL ANY OTHER AREAS AT FINAL GRADE GRADE WITHIN THAT AREAS

TABLE 2: TEMPORARY STABILIZATION

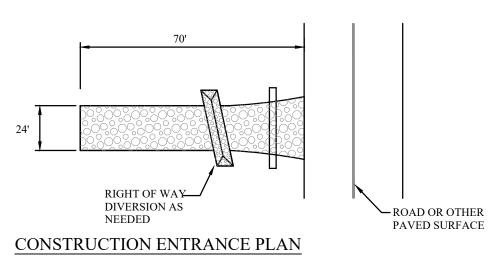
TABLE 1: PERMANENT STABILIZATION

AREA REQUIRING PERMANENT STABILIZATION TIME FRAME TO APPLY EROSION CONTROLS

ANY AREAS THAT WILL LIE DORMANT FOR ONE WITHIN SEVEN DAYS OF THE MOST RECENT

AREA REQUIRING TEMPORARY STABILIZATION TIME FRAME TO APPLY EROSION CONTROLS ANY DISTURBED AREAS WITHIN 50 FEET OF A WITHIN TWO DAYS OF THE MOST RECENT SURFACE WATER OF THE STATE AND NOT AT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS WITHIN SEVEN DAYS OF THE MOST RECENT FOR ALL CONSTRUCTION ACTIVITIES, AND DISTURBED AREAS THAT WILL BE DORMANT DISTURBANCE WITHIN THE AREA FOR MORE THAN 14 DAYS BUT LESS THAN ONE FOR RESIDENTIAL SUBDIVISIONS, DISTURBED YEAR, AND NOT WITHIN 50 FEET OF A SURFACE

WHERE VEGETATIVE STABILIZATION TECHNIQUES MAY CAUSE STRUCTURAL INSTABILITY OR ARE OTHERWISE UNOBTAINABLE, ALTERNATIVE STABILIZATION TECHNIQUES MUST BE EMPLOYED. PERMANENT AND TEMPORARY STABILIZATION ARE DEFINED IN PART VII.



ROAD OR OTHER PAVED SURFACE -

CULVERT AS NEEDED

CONSTRUCTION ENTRANCE PROFILE REFERENCE ONLY NOT TO SCALE

18" OR SUFFICIENT

TO DIVERT RUNOFF

REFERENCE ONLY NOT TO SCALE

1. STONE SIZE - ODOT #2 (1.5-2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.

- 2. LENGTH- THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABALIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE RESIDENCE LOTS.)
- 3. THICKNESS- THE STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES FOR HEAVY DUTY USE.
- 4. WIDTH- THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- 5. GEOTEXTILE- A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE AREA PRIOR TO PLACING STONE . IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS.

GEOTEXTILE SPECIFICATION FOR CONSTRUCTION ENTRANCE				
MINIMUM TENSILE STRENGTH	200 LBS.			
MINIIMUM PUNCTURE STRENGTH	80 PSI.			
MINIMUM TEAR STRENGTH	50 LBS.			
MINIMUM BURST STENGTH	320 PSI.			
MINIMUM ELONGATION	20%			
EQUIVALENT OPENIING SIZE	EOS<0.6MM.			
PFRMITTIVITY	1X10^3 CM/SEC			

6. TIMING- THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.

> 7. CULVERT- A PIPE OR CULVERT SHA CONSTRUCTED UNDER THE ENTRA TO PREVENT SURFACE WATER FRO ACROSS THE ENTRANCE OR TO PRE FROM BEING DIRECT OUT ONTO PA

8. WATER BAR- A WATER BAR SHALL CONSTRUCTED AS PART OF THE CO ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED 9. SURFACES.

MAINTENANCE- TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, 10. SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.

CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND 11. PREVENT OFF-SITE TRACKING, VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION-SITE SHALL BE RESTRICTED FROM MUDDY AREAS.

REMOVAL- THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.

TICABLE BLI ORE	REQUIREMENTS FOR GEOTEXTILES				
HALL BE	PROPERTY	TEST METHOD	WOVEN- CLASS I	NONWOVEN-I	
RANCE IF NEEDED ROM FLOWING	TENSILE STRENGTH (POUNDS) 1/	ASTM C 4632 GRAB TEST	200 MINIMUM IN ANY PRINCIPAL DIRECTION	180 MINIMUM	
REVENT RUNOFF PAVED SURFACES.	ELONGATION AT FAILURE (PERCENT) 1/	ASTM D 4632 GRAB TEST	<50	> 50	
	PUNCTURE (POUNDS) 1/	ASTM D 4833	90 MINIMUM	80 MINIMUM	
LL BE CONSTRUCTION	ULTRAVIOLET LIGHT (% RESIDUAL TENSILE	ASTM D 4355 150-HR EXPOSURE	70 MINIMUM	70 MINIMUM	

PRINCIPAL DIRECTION).

NOTE: CWO IS A USACE REFERENCE

RIPRAP SIZE CHART							
TYPE OF ROCK OR	"N" VALUE	SIZE OF ROCK					
RIPRAP (ODOT)		50%	85%				
TYPE D	.036	>6 IN.	3-12 IN.				
TYPE C	.04	>12 IN.	6-18 IN.				
TYPE B	.043	>18 IN.	12-24 IN.				
TYPE A	.045	>24 IN.	18-30 IN.				

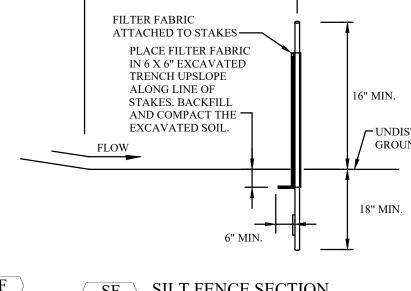
DEOLUDE AENTS FOR SECTEVILLES APPARENT OPENING SIZ ASTM D 4751 AS SPECIFIED MAX. #40 2/ ALLER THAN .212 (#70) (PERCENT) PERMITIVITY SEC-1 ASTM D 4491 0.10 MINIMUM 0.70 MINIMUM MINIMUM AVERAGE ROLL VALUE (WEAKEST U.S. STANDARD SIEVE SIZE

TCE > SPECIFICATIONS FOR CONSTRUCTION ENTRANCE

BOTTOM OF FENCE LEVEL CONTOUR ON SLOPE 10'-0" MAXIMUM SF SILT FENCE DETAIL

WRAP GEOTEXTILE AROUND STAKES BEFORE DRIVING





LENGTH OF RIPRAP OUTLET PROTECTION

PLANVIEW

PROFILE

1. SUBGRADE FOR THE FILTER OR BEDDING 5. GRAVEL BEDDING SHALL BE ODOT NO.

OVERLAPPING THE DOWNSTREAM STRIP. 9. ALL DISTURBED AREAS WILL BE

SPECIFICATIONS FOR ROCK OUTLET PROTECTION REFERENCE ONLY NOT TO SCALE

FLAT SLOPE IN FRONT OF BARRIER

67'S OR 57'S UNLESS SHOWN

GEOTEXTILE.

OPERATIONAL.

DIFFERENTLY ON THE DRAWINGS.

6. RIPRAP MAY BE PLACED BY EQUIPMENT

BUT SHALL BE PLACED IN A MANNER TO PREVENT SLIPPAGE OR DAMAGE TO THE

RIPRAP SHALL BE PLACED BY A METHOD

THAT DOES NOT CAUSE SEGREGATION

OF SIZES. EXTENSIVE PUSHING WITH A

DOZER CAUSES SEGREGATION AND

SHALL BE AVOIDED BY DELIVERING

RIPRAP NEAR ITS FINAL LOCATION

8. CONSTRUCTION SHALL BE SEQUENCED

PLACED AND FUNCTIONAL WHEN THE

STORM DRAIN, CULVERT, OR OPEN

VEGETATED AS SOON AS PRACTICAL.

SO THAT OUTLET PROTECTION IS

CHANNEL ABOVE IT BECOMES

WITHIN THE CHANNEL.

AND RIPRAP SHALL BE PREPARED TO THE

REOUIRED LINES AND GRADES AS

SHALL BE CLEARED OF ALL TREES,

2. RIPRAP SHALL CONFORM TO THE

3. GEOTEXTILE SHALL BE SECURELY

CREASES. WHERE JOINTS ARE

WITH THE UPSTREAM STRIP

4. GEOTEXTILE SHALL BE LAID WITH THE

LONG DIMENSION PARALLEL TO THE DIRECTION OF FLOW AND SHALL BE LAID

LOOSELY BUT WITHOUT WRINKLES AND

TO PROVIDE A 12-IN. MINIMUM OVERLAP,

NECESSARY, STRIPS SHALL BE PLACED

ANCHORED ACCORDING TO

OTHER MATERIAL.

SHOWN ON THE PLAN. THE SUBGRADE

STUMPS, ROOTS, SOD, LOOSE ROCK, OR

GRADING LIMITS AS SHOWN ON THE

MANUFACTURERS' RECOMMENDATIONS.

UNDISTURBED GROUND > SILT FENCE SECTION

1" REBAR FOR BAG REMOVAL FROM INLET (REBAR NOT INCLUDED) OPTIONAL OVERFLOW SILTSACK DUMP LOOPS (REBAR NOT INCLUDED)

DETAIL OF INLET SEDIMENT CONTROL DEVICE

WITH CURB DEFLECTOR

(IPSS) SILTSACK DETAIL

INLET PROTECTION NOT

PAVEMENT IS ESTABLISHED.

APPROVED EQUAL

1. THE TYPICAL INLET SILT FENCE DETAIL SHALL REMAIN IN PLACE UNTIL

2. ONCE PAVEMENT HAS BEEN INSTALLED, THE INLETS WITHIN THE PAVING

DEVICE AS MANUFACTURED BY ACF ENVIROMENTAL CONTROL INC., OR

LIMITS MUST BE FITTED WITH THE "SILTSACK" SEDIMENT CONTROL

3. SILT SACK MUST REMAIN IN PLACE UNTIL THE SITE HAS BEEN SEEDED &

SIDE VIEW INSTALLED INSTALLATION DETAIL

1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT

WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH. 3. TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING AROUND THE ENDS.

EACH END SHALL BE CONSTRUCTED UPSLOPE SO THAT THE ENDS ARE AT A HIGHER 4. WHERE POSSIBLE, SILT FENCE SHALL BE

PLACED ON THE FLATTEST AREA AVAILABLE. 5. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FT. (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE IF VEGETÁTION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.

6. THE HEIGHT OF THE SILT FENCE SHALL BE A MIN. OF 16 IN. ABOVE THE ORIGINAL GROUND SURFACE.

7. THE SILT FENCE SHALL BE PLACED IN A TRENCH CUT A MIN. OF 6 IN. DEEP. THE TRENCH SHALL BE CUT WITH A TRENCHER, CABLE LAYING MACHINE, OR OTHER SUITABLE DEVICE WHICH WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.

8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWN SLOPE SIDE OF THE GEOTEXTILE AND SO THAT 8 IN. OF CLOTH ARE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6 IN. DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC

9. SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6-IN. OVERLAP PRIOR TO DRIVING INTO THE

). MAINTENANCE--SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BÉ CHANGED, 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED.

SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELYONE-HALF OF THE HEIGHT

SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING A PROLONGED RAINFALL. THE LOCATION OF EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS, IF DAMAGED, THE SILT FENCE SHALL BE REPAIRED IMMEDIATELY.

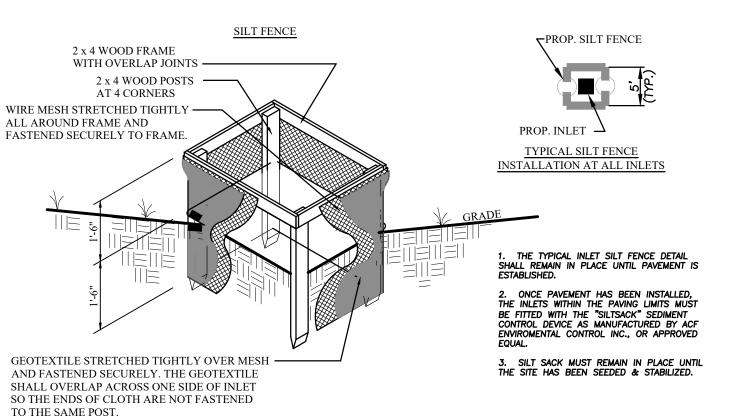
CRITERIA FOR SILT FENCE MATERIALS MINIMUM OF 32 IN. LONG. WOOD POSTS WILL BE 2-BY-2 IN. HARDWOOD OF SOUND QUALITY. THE MAXIMUM SPACING BETWEEN

2. SILT FENCE FABRIC (SEE CHART BELOW):

POSTS SHALL BE 10 FT.

MINIMUM CRITERIA FOR SILT FENCE FABRIC (ODOT, 2002)						
FABRIC PROPERTIES	VALUES	TEST METHOD				
MINIMUM TENSILE STRENGTH	120 LBS. (535 N)	ASTM D 4362				
MAXIMUM ELONGATION AT 60 LBS	50%	ASTM D 4632				
MINIMUM PUNCTURE STRENGTH	50 LBS (220 N)	ASTM D 4833				
MINIMUM TEAR STRENGTH	40 LBS (180 N)	ASTM D 4533				
APPARENT OPENING SIZE	<.84 MM	ASTM D 4751				
MINIMUM PERMITTIVITY	1X10^2 SEC^-1	ASTM D 4491				
UV EXPOSURE STRNEGTH RETENTION	70%	ASTM D 4355				

SPECIFICATIONS FOR SILT FENCE



1. INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM INLET BECOMES

THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH AT LEAST 18 INCHES.

3. THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2-BY-4-IN. CONSTRUCTION-GRADE LUMBER. THE 2-BY-4-IN. POSTS SHALL BE DRIVEN 1 FT. INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF 2-BY-4-IN. FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADS IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC.

4. WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.

GEOTEXTILE MATERIAL SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20-40- SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM TOP OF THE FRAME TO 18 INCHES BELOW THE INLET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAP ACROSS ON SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE

BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6-IN. LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.

A COMPACTED EARTH DIKE OR A CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION AND IF RUNOFF BYPASSING THE INLET WILL NOT FLOW TO A SETTLING POND. THE TOP OF EARTH DIKES SHALL BE AT LEAST 6 INCHES HIGHER THAN THE TOP OF THE FRAME.

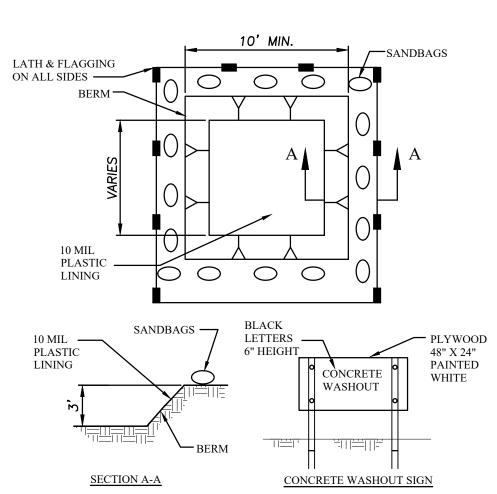
MAINTENANCE

EFFECTIVE STORM DRAIN INLET PROTECTION COLLECTS SEDIMENT AND THEREFORE MUST BE CLEANED REGULARLY TO PREVENT CLOGGING AND SUBSEQUENT FLOODING CONDITIONS, PIPING, OR OVERTOPPING OF THE CONTROL STRUCTURES. SEDIMENT BARRIERS THAT SAG, FALL OVER, OR ARE NOT PROPERLY SECURED, MUST BE PROMPTLY REPAIRED OR REPLACED.

INLET PROTECTION SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL EVENT. AREAS WHERE THERE IS ACTIVE TRAFFIC SHALL BE INSPECTED DAILY. REPAIRS SHALL BE MADE AS NEEDED TO ASSURE THE PRACTICE IS PERFORMING AS INTENDED. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION IS ONE-HALF THE HEIGHT OF THE TRAP. SEDIMENT SHALL NOT BE WASHED INTO THE INLET. SEDIMENT SHALL BE REMOVED AND PLACED IN A LOCATION WHERE IT IS STABLE AND NOT SUBJECT TO EROSION.

ONCE THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED, ALL FILTER MATERIAL AND COLLECTED SEDIMENT SHALL BE REMOVED AND PROPERLY DISPOSED.

SPECIFICATIONS FOR GEOTEXTILE INLET PROTECTION REFERENCE ONLY NOT TO SCALE



TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE LOCATED A MINIMUM OF 50 FT FROM STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES, AND WATERCOURSES. FACILITY SHALL BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OR ACCESS AREAS TO PREVENT DISTURBANCE OR TRACKING.

TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED AS SHOWN ON THE DETAIL WITH A MINIMUM LENGTH AND MINIMUM WIDTH OF 10' LATH AND FLAGGING SHALL BE COMMERCIAL TYPE. PLASTIC LINING MATERIAL SHALL BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND SHALL BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT

COMPROMISE THE IMPERMEABILITY OF THE MATERIAL A SIGN SHALL BE INSTALLED ADJACENT TO WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL HAVE A TEMPORARY PIT OR BERMED AREAS OF SUFFICIENT VOLUME TO COMPLETELY CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT PROCEDURES.

WASHOUT OF CONCRETE TRUCKS SHALL BE PERFORMED IN DESIGNATED AREAS ONLY CONCRETE FROM MIXER TRUCK CHUTES SHOULD BE WASHED INTO CONCRETE WASHOUT.

CONCRETE WASHOUT FROM CONCRETE PUMPER BINS CAN BE WASHED INTO CONCRETE PUMPER TRUCKS AND DISCHARGED INTO DESIGNATED WASHOUT AREA OR PROPERLY DISPOSED OF OFFSITE CONCRETE WASTES SHALL BE ALLOWED TO HARDEN THEN BROKEN UP,

REMOVED, AND PROPERLY DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATION ON A REGULAR BASIS. WHEN TEMPORARY WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHALL BE REMOVED AND DISPOSED OF. MATERIALS USED TO CONSTRUCT THE WASHOUT FACILITIES SHALL BE

TEMP. CONCRETE WASHOUT FACILITY

REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF.



HEADWALL

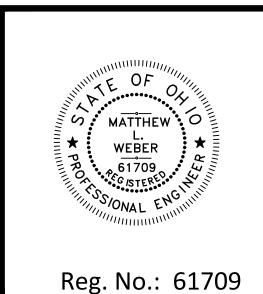
PIPE DIA

+ 4" MIN

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SPECIFICATIONS FOR TEMPORARY ROLLED EROSION CONTROL PRODUCT

- CHANNEL/SLOPE SOIL PREPARATION GRADE AND COMPACT AREA OF INSTALLATION, PREPARING SEEDBED BY LOOSENING 2"-3" OF TOPSOIL ABOVE FINAL GRADE. INCORPORATE AMENDMENTS SUCH AS LIME AND FERTILIZER INTO SOIL. REMOVE ALL ROCKS, CLODS, VEGETATION OR OTHER DEBRIS SO THAT INSTALLED RECP WILL HAVE DIRECT CONTACT WITH THE SOIL SURFACE.
- CHANNEL/SLOPE SEEDING APPLY SEED TO SOIL SURFACE PRIOR TO INSTALLATION. ALL CHECK SLOTS, ANCHOR TRENCHES, AND OTHER DISTURBED AREAS MUST BE RESEEDED, REFER TO THE PERMANENT SEEDING SPECIFICATION FOR SEEDING RECOMMENDATIONS.

SLOPE INSTALLATION

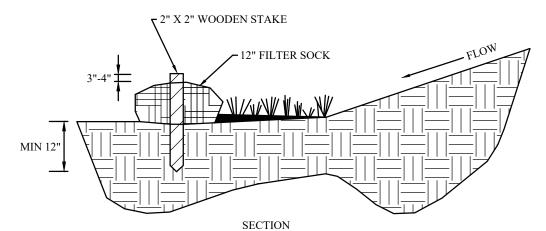
- 3. EXCAVATE TOP AND BOTTOM TRENCHES (12"X6"). INTERMITTENT EROSION CHECK SLOTS (6"X6") MAY BE REQUIRED BASED ON SLOPE LENGTH. EXCAVATE TOP ANCHOR TRENCH 2'X3' OVER CREST OF THE SLOPE
- 4. IF INTERMITTENT EROSION CHECK SLOTS ARE REQUIRED, INSTALL RECP IN 6"X6" SLOT AT A MAXIMUM OF 30' CENTERS OR THE MID POINT OF THE SLOPE. RECP SHOULD BE STAPLED INTO TRENCH ON 12" CENTERS.
- INSTALL RECP IN TOP ANCHOR TRENCH, ANCHOR ON 12" SPACING, BACKFILL AND COMPACT SOIL.
- 6. UNROLL RECP DOWN SLOPE WITH ADJACENT ROLLS OVERLAPPED A MINIMUM OF 3". ANCHOR THE SEAM EVERY 18". LAY THE RECP LOOSE TO MAINTAIN DIRECT SOIL CONTACT, DO NOT PULL TAUGHT
- 7. OVERLAP ROLL ENDS A MINIMUM OF 12" WITH UPSLOPE RECP ON TOP FOR A SHINGLE EFFECT. BEGIN ALL NEW ROLLS IN AN EROSION CHECK SLOT IF REQUIRED; DOUBLE ANCHOR ACROSS ROLL
- 8. INSTALL RECP IN BOTTOM ANCHOR TRENCH (12"X6"), ANCHOR EVERY 12", PLACE ALL OTHER STAPLES THROUGHOUT SLOPE AT 1 TO 2.5 PER SQUARE YARD DEPENDANT ON SLOPE. REFER TO MANUFACTURES ANCHOR GUIDE.

- 10. EXCAVATE INTERMITTENT CHECK SLOTS (6"X6") ACROSS THE CHANNEL AT 30'
- INTERVALS ALONG THE CHANNEL. 11. EXCAVATE LONGITUDINAL CHANNEL
- (DOWNSTREAM) ANCHOR EVERY 12".

ABOVE THE CREST OF CHANNEL SIDE SLOPES.

- 13. ROLL OUT RECP BEGINNING IN THE CENTER OF THE CHANNEL TOWARD THE INTERMITTENT CHECK SLOT. DO NOT PULL TAUGHT. UNROLL ADJACENT ROLLS UPSTREAM WITH A 3" MINIMUM OVERLAP SIDE SLOPE.
- 14. AT TOP OF CHANNEL SIDE SLOPES INSTALL ANCHOR EVERY 18".
- 15. INSTALL RECP IN INTERMITTENT CHECK ANCHORS EVERY 12", BACKFILL WITH SOIL AND COMPACT.
- 16. OVERLAP ROLL ENDS A MINIMUM OF 12" WITH UPSTREAM RECP ON TOP FOR A SHINGLING EFFECT. BEGIN ALL NEW ROLLS IN AN INTERMITTENT CHECK SLOT, DOUBLE ANCHOR EVERY 12".
- SUFFICIENT LENGTH TO RESIST PULLOUT. LONGER ANCHORS MAY BE REQUIRED IN

- 9. EXCAVATE INITIAL ANCHOR TRENCH (12"X6") ACROSS THE LOWER END OF THE PROJECT
- ANCHOR SLOTS (4"X4") ALONG BOTH SIDES OF THE CHANNEL TO BURY THE EDGES. WHENEVER POSSIBLE EXTEND THE RECP 2'-3'
- 12. INSTALL RECP IN INITIAL ANCHOR TRENCH BACKFILL AND COMPACT SOIL.
- (ANCHOR EVERY 18") AND UP EACH CHANNEL
- RECP IN THE LONGITUDINAL ANCHOR SLOTS,
- SLOTS. LAY INTO TRENCH AND SECURE WITH
- 17. INSTALL UPSTREAM END IN A TERMINAL ANCHOR TRENCH (12"X6"); ANCHOR EVERY 12", BACKFILL AND COMPACT.
- 18. COMPLETE ANCHORING THROUGHOUT CHANNEL AT 2.5 PER SQUARE YARD USING SUITABLE GROUND ANCHORING DEVICES (U SHAPED WIRE STAPLES, METAL GEOTEXTILE PINS, PLASTIC STAKES, AND TRIANGULAR WOODEN STAKES). ANCHORS SHOULD BE OF LOOSE SAND OR GRAVELLY SOILS.



- 1. MATERIALS-COMPOST USED FOR FILTER SOCKS SHALL BE WEED, PATHOGEN AND INSECT FREE AND FREE OF ANY REFUSE, CONTAMINANTS OR OTHER RUNOFF CHANNELS. MATERIALS TOXIC TO PLANT GROWTH, THEY SHALL BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER AND CONSIST OF
- 2. FILTER SOCKS SHALL BE 3 OR 5 MIL CONTINUOUS, TUBULAR, HDPE $\frac{3}{8}$ " KNITTED MESH NETTING MATERIAL, FILLED WITH COMPOST PASSING THE ABOVE SPECIFICATIONS FOR COMPOST PRODUCTS.

PARTICLES RANGING FROM $\frac{3}{8}$ " TO 2"

INSTALLATION:

- 3. FILTER SOCKS WILL BE PLACED ON A LEVEL LINE ACROSS SLOPES, GENERALLY PARALLEL TO THE BASE OF THE SLOPE OR OTHER AFFECTED AREA. ON SLOPES APPROACHING 2:1, ADDITIONAL SOCKS SHALL BE PROVIDED AT THE TOP AND AS NEEDED MID-SLOPE.
- 4. FILTER SOCKS INTENDED TO BE LEFT AS A PERMANENT FILTER OR PART OF THE NATURAL LANDSCAPE SHALL BE SEEDED AT THE TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION.

5. FILTER SOCKS ARE NOT TO BE USED IN CONCENTRATE FLOW SITUATIONS OR IN

- EACH SIGNIFICANT RAIN. MAINTAINING FILTER SOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES.
- REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE FILTER SOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES.

6. ROUTINELY INSPECT FILER SOCKS AFTER

- WHERE THE FILTER SOCK DETERIORATES OR FAILS, IT WILL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE ALTERNATIVE.
- 9. REMOVAL-FILTER SOCKS WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED IN SUCH A WAY AS TO FACILITATE AN NO OBSTRUCT SEEDINGS.

COMPOST FILTER SOCK DETAIL

REFERENCE ONLY NOT TO SCALE

1. DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURES, THE SOIL

THE FIRST ROW OF SOD SHALL BE LAID IN A STRAIGHT LINE WITH

BRICK-LIKE PATTERN. ENSURE THAT SOD IS NOT STRETCHED OR

LAID WITH THE LONG EDGE PARALLEL TO THE CONTOUR AND

STAGGERED JOINTS. THE SOD SHALL BE SECURED WITH PEGS OR

5. AS SODDING IS COMPLETED IN ANY ONE SECTION, THE ENTIRE AREA

IN THE ABSENCE OF ADEQUATE RAINFALL, WATERING SHALL BE

PERFORMED DAILY OR AS OFTEN AS NECESSARY DURING THE FIRST

WEEK WITH SUFFICIENT QUANTITIES TO MAINTAIN MOIST SOIL TO A

AFTER THE FIRST WEEK, SOD SHALL BE WATERED AS NECESSARY TO

MAINTAIN ADEQUATE MOISTURE AND ENSURE ESTABLISHMENT.

3. THE FIRST MOWING SHALL NOT BE ATTEMPTED UNTIL SOD IS FIRMLY

SHALL BE ROLLED OR TAMPED TO ENSURE SOLID CONTACT OF ROOTS

ROLLING OR TAMPING UNTIL THE SOD AND SOIL SURFACE BELOW THE

SOD ARE THOROUGHLY WET. THE OPERATIONS OF LAYING TAMPING

WITH THE SOIL SURFACE. SOD SHALL BE WATERED IMMEDIATELY AFTER

AND IRRIGATING FOR ANY PIECE OF SOD SHALL BE COMPLETED WITHIN 8

SUBSEQUENT ROWS PLACED PARALLEL TO AND TIGHTLY WEDGED

AGAINST EACH OTHER. LATERAL JOINTS SHALL BE STAGGERED IN A

OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO

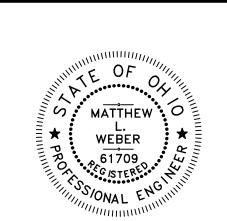
4. ON SLOPING AREAS WHERE EROSION MAY BE A PROBLEM, SOD SHALL BE

SOD SHALL NOT BE PLACED ON FROZEN SOIL.

PREVENT VOIDS THAT WOULD DRY THE ROOTS.

MAINTENANCE

SHALL BE LIGHTLY IRRIGATED IMMEDIATELY BEFORE LAYING THE SOD.



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SPECIFICATIONS FOR DUST CONTROL

ADHESIVES FOR DUST CONTROL						
ADHESIVE	WATER DILUTION (ADHESIVE WATER)	NOZZLE TYPE	APPLICATION RATE GAL./AC.			
LATEX EMULSION	12.5:1	FINE	235			
TESIN IN WATER ACRYLIC EMULSION (NO-TRAFFIC)	4:1	FINE	300			
ACRYLIC EMULSION (NO-TRAFFIC)	7:1	COARSE	450			
ACRYLIC EMULSION (TRAFFIC)	3.5:1	COARSE	350			

- 1. VEGETATIVE COVER AND/MULCH- APPLY TEMPORARY OR PERMANENT SEEDING AND MULCH TO AREAS THAT WILL REMAIN IDLE FOR OVER 21 DAYS. SAVING EXISTING TREES AND LARGE SHRUBS WILL ALSO REDUCE SOIL AND AIR MOVEMENT ACROSS DISTURBED AREAS. SEE TEMPORARY SEEDING; PERMANENT SEEDING; MULCHING PRACTICES; AND TREE AND NATURAL AREA PROTECTION PRACTICES.
- WATERING- SPRAY SITE WITH WATER UNTIL THE SURFACE IS WET BEFORE AND DURING GRADING AND REPEAT AS NEED, ESPECIALLY ON HAUL ROADS AND OTHER HEAVY TRAFFIC ROUTES. WATERING SHALL BE DONE AT A RATE THAT PREVENTS DUST BUT DOES NOT CAUSE SOIL EROSION. WETTING AGENTS SHALL BE UTILIZED ACCORDING TO MANUFACTURERS INSTRUCTIONS.
- 3. SPRAY-ON ADHESIVES-APPLY ADHESIVE ACCORDING TO THE
- FOLLOWING TABLE OR MANUFACTURERS' INSTRUCTIONS STONE - GRADED ROADWAYS AND OTHER SUITABLE AREAS WILL BE STABILIZED USING CRUSHED STONE OR COARSE GRAVEL AS SOON AS PRACTICABLE AFTER REACHING AN INTERIM OR FINAL GRADE. CRUSHED STONE OR COARSE GRAVEL CAN BE USED AS A PERMANENT
- COVER TO PROVIDE CONTROL OF SOIL EMISSIONS. BARRIERS- EXISTING WINDBREAK VEGETATION SHALL BE MARKED AND PRESERVED. SNOW FENCING OR OTHER SUITABLE BARRIER MAY BE PLACED PERPENDICULAR TO PREVAILING AIR CURRENTS AT INTERVALS OF ABOUT 15 TIMES THE BARRIER HEIGHT TO CONTROL AIR CURRENTS AND BLOWING SOIL
- CALCIUM CHLORIDE THIS CHEMICAL MAY BE APPLIED BY MECHANICAL SPREADER AS LOOSE, DRY GRANULES OR FLAKES AT A RATE THAT KEEPS THE SURFACE MOIST BUT NOT SO HIGH AS TO CAUSE WATER POLLUTION OR PLANT DAMAGE. APPLICATION RATES SHOULD BE STRICTLY IN ACCORDANCE WITH SUPPLIERS' SPECIFIED RATES.
- OPERATION AND MAINTENANCE WHEN TEMPORARY DUST CONTROL MEASURES ARE USED; REPETITIVE TREATMENT SHOULD BE APPLIED AS NEEDED TO ACCOMPLISH CONTROLS.

STREET CLEANING- PAVED ARES THAT HAVE ACCUMULATED SEDIMENT FROM CONSTRUCTION SHOULD BE CLEANED DAILY, OR AS NEED, UTILIZING A STREET SWEEPER OR BUCKET-TYPE ENDLOADER OR SCRAPER.

SPECIFICATIONS FOR MULCHING

- MULCH AND OTHER APPROPRIATE VEGETATIVE PRACTICES SHALL BE APPLIED TO DISTURBED AREAS WITHIN 7 DAYS OF GRADING IF THE AREA IS TO REMAIN DORMANT (UNDISTURBED) FOR MORE THAN 21 DAYS OR ON AREAS AND PORTIONS OF THE SITE WHICH CAN BE BROUGHT TO FINAL
- 2. MULCH SHALL CONSIST OF ONE OF THE FOLLOWING:

GRADE.

- STRAW SHALL BE UNROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 2 TONS/AC. OR 90 LB./1,000 SQ. FT. (TWO TO THREE BALES). THE STRAW MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000-SQ.-FT. SECTIONS AND PLACE TWO 45-LB.
- BALES OF STRAW IN EACH SECTION. • HYDROSEEDERS - WOOD CELLULOSE FIBER SHOULD BE USED AT 2,000 LB./AC. OR 46 LB./1,000 SQ. FT.
- OTHER ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS AND ROLLED EROSION CONTROL PRODUCTS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD MULCH/CHIPS APPLIED AT 10-20 TONS/AC.

- 3. MULCH ANCHORING MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR RUNOFF. THE FOLLOWING ARE ACCEPTABLE METHODS FOR ANCHORING MULCH:
- MECHANICAL USE A DISK, CRIMPER, OR SIMILAR TYPE TOOL SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT BE LEFT GENERALLY LONGER THAN 6 INCHES.
- MULCH NETTINGS USE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, FOLLOWING ALL PLACEMENT AND ANCHORING REQUIREMENTS. USE IN AREAS OF WATER CONCENTRATION AND STEEP SLOPES TO HOLD MULCH IN PLACE.
- SYNTHETIC BINDERS FOR STRAW MULCH, SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TACK, OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER. ALL APPLICATIONS OF SYNTHETIC BINDERS MUST BE CONDUCTED IN SUCH A MANNER WHERE THERE IS NO CONTACT WITH WATER OF THE STATE.
- WOOD CELLULOSE FIBER WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. THE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LBS./AC. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB./100 GAL. OF WOOD CELLULOSE FIBER.

MATERIALS 1. SOD SHALL BE HARVESTED, DELIVERED AND INSTALLED WITHIN A

- 2. THE SOD SHALL BE KEPT MOIST AN COVERED DURING HAULING AND
- 3. SOD SHALL BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 0.75 INCHES, PLUS OR MINUS 0.25 INCHES, AT THE TIME OF CUTTING. MEASUREMENTS FOR THICKNESS SHALL EXCLUDE TOP GROWTH AND
- SITE PREPARATION 1. A SUBSOILER, PLOW OR OTHER IMPLEMENT SHALL BE USED TO REDUCE SOIL COMPACTION AND ALLOW MAXIMUM INFILTRATION. MAXIMIZING INFILTRATION WILL HELP CONTROL BOTH RUNOFF RATE AND WATER OUALITY. SUBSOILING SHALL NOT BE CONDUCTED ON SLIP-PRONE AREAS WHERE SOIL PREPARATION SHOULD BE LIMITED ONLY TO WHAT IS NECESSARY FOR ESTABLISHING VEGETATION.

SOIL TEST. IN LIEU OF A 2 SOIL TEST FERTILIZER SHALL BE APPLIED AT

THE LIME AND FERTILIZER SHALL BE WORKED INTO THE SOIL WITH A DISK HARROW, SPRING-TOOTH HARROW, OR OTHER SUITABLE FIELD IMPLEMENT TO A DEPTH OF 3 INCHES.

SPECIFICATIONS FOR SODDING

- PERIOD OF 48 HOURS. SOD NOT TRANSPLANTED WITHIN THIS PERIOD SHALL BE INSPECTED AND APPROVED PRIOR TO INSTALLATION.
- PREPARATION FOR PLACEMENT.
- 2. THE AREA SHALL BE GRADED AND TOPSOIL SPREAD WHERE NEEDED.
- 3. SOIL AMENDMENTS

LIME- AGRICULTURAL GROUND LIMESTONE SHALL BE APPLIED TO ACIDIC SOILS AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, LIME SHALL BE APPLIED AT THE RATE OF 100 LB./1,000 SQ. FT OR 2 TONS/AC.

A RATE OF 12 LB./1,000 SQ. FT OR 500 LB./AC. OF 10-10-10 OR 12-12-12

FERTILIZER-FERTILIZER SHALL BE APPLIED AS RECOMMENDED BY A

4. BEFORE LAYING SOD, THE SURFACE SHALL BE UNIFORMLY GRADED AND CLEARED OF ALL DEBRIS, STONES AND CLODS LARGER THAN 3-IN.