INSPIRED PEOPLE ▲ CREATIVE DESIGN ▲ TRANSFORMING COMMUNITIES

PRIVATE SITE IMPROVEMENT PLAN

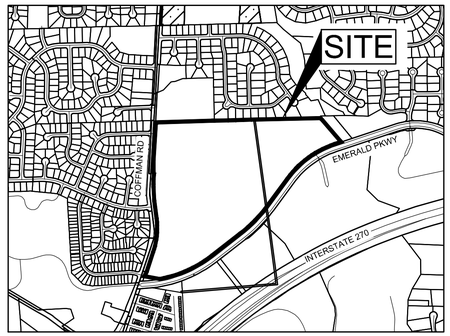
DUBLIN COFFMAN HIGH SCHOOL TURF FIELDS

6780 COFFMAN RD

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO 43017

2024

PID: 273-000325

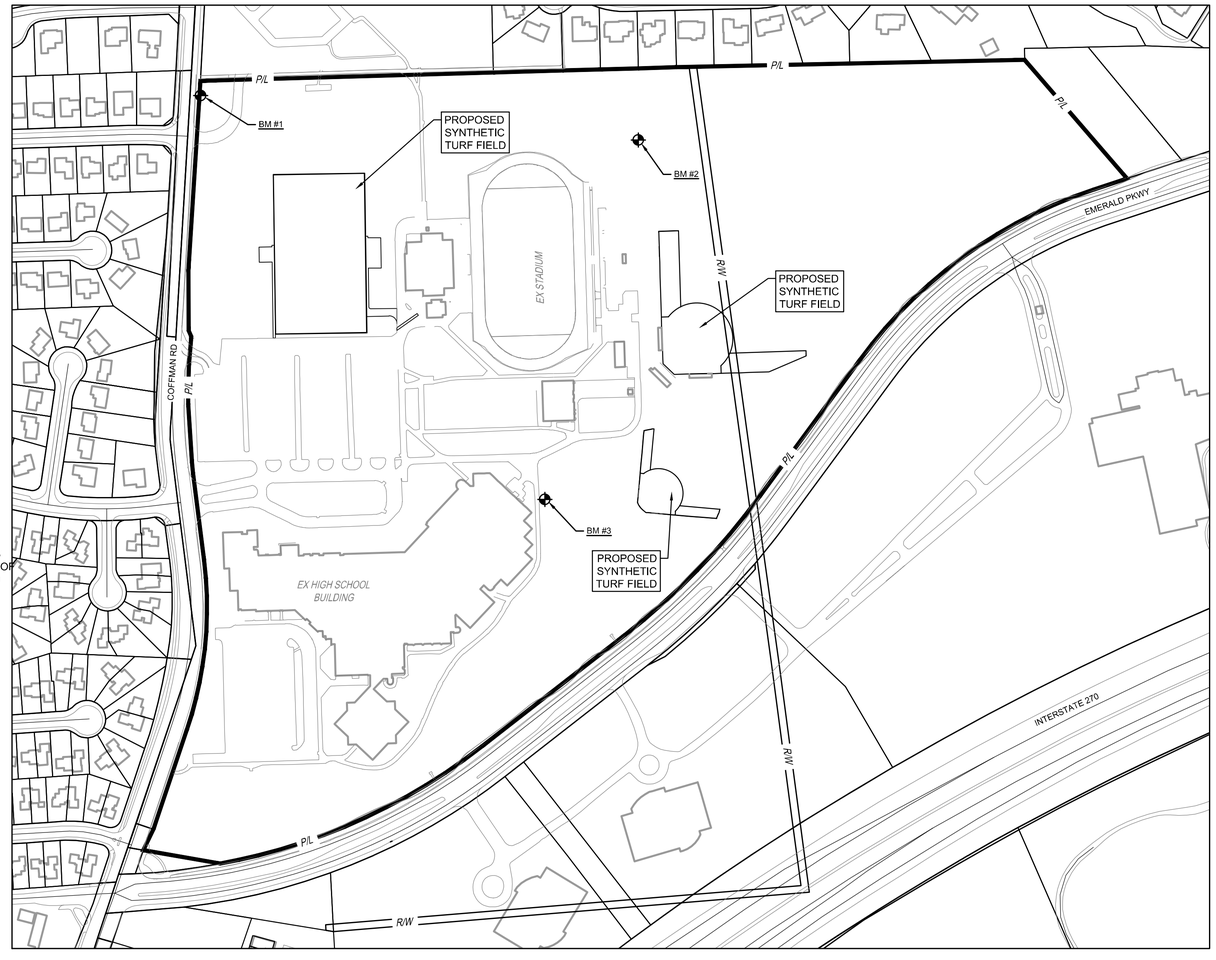


LOCATION MAP
1"=1000'
0 500 1000 2000

LEGEND

CITY OF DUBLIN CORPORATION LIMITS

WASHINGTON TOWNSHIP



BENCHMARKS

HORIZONTAL (NAD 83) AND VERTICAL (NAVD 88) DATUMS ARE BASED UPON SOURCE CORS STATION "COLB", THIS IS A CONTINUOUSLY OPERATING REFERENCE STATION LOCATED ON THE GROUNDS OF AN ODOT FACILITY LOCATED AT 1960 WEST BROAD STREET IN COLUMBUS, OHIO. PUBLISHED ELEVATION IS 722.39.

BENCHMARK #1
CUT BOX X ON NE CORNER OF CONC. CONTROL BOX BASE
N 769505.09 ELEVATION = 893.70
E 1791657.86

BENCHMARK #2
CUT BOX IN SOUTH RIM OF MH GRATE
N 769387.69 ELEVATION = 879.13
E 1792812.88

BENCHMARK #3
CUT BOX X ON NORTH RIM OF MH
N 768439.63 ELEVATION = 888.36
E 1792565.93

BASIS OF BEARINGS

BEARINGS ARE BASED ON THE STATE PLANE COORDINATE SYSTEM, OHIO SOUTH ZONE (NAD83-2011). AS DETERMINED BY A GPS SURVEY UTILIZING CORS STATION "OHUN". THE PROJECT COORDINATES ARE BASED ON STATE PLANE COORDINATES AND HAVE BEEN SCALED TO GROUND BY USING A PROJECT ADJUSTMENT FACTOR OF 1.0000209728 APPLIED AT BASE POINT N 768750.00 E 1792500.00 GRID AND GROUND COORDINATES ARE IDENTICAL AT THE BASE POINT.

SURVEY SOURCE:
XXX

UTILITY NOTES

CONNECTIONS TO EXISTING PUBLIC INFRASTRUCTURE SHALL BE CORE DRILLED.
CONNECTIONS TO EXISTING UTILITIES REQUIRE CITY OF DUBLIN INSPECTION.

RELATED PERMITS

OEPA FACILITY PERMIT NUMBER (NOI) 4GC10253*AG

STANDARD DRAWINGS

CITY OF COLUMBUS	CITY OF DUBLIN	ODOT
AA-S102	ST-01	CB 2-5
AA-S106	ST-03	
AA-S107	ST-05	
AA-S108		
AA-S112		
AA-S117		
AA-S119		
AA-S133A		
AA-S133B		
AA-S139		
AA-S141		
AA-S149		
AA-S150		
AA-S161		
AA-S168		
2230 (04/30/2018)		

OHIO811.org Before You Dig

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE INSTALLATION OF SYNTHETIC TURF AT THE ATHLETIC FIELDS OF DUBLIN COFFMAN HIGH SCHOOL.

INDEX MAP
1"=200'
0 100 200 400

THIS IS TO CERTIFY THAT GOOD ENGINEERING PRACTICES HAVE BEEN UTILIZED IN THE DESIGN OF THIS PROJECT AND THAT ALL OF THE MINIMUM STANDARDS AS SET FORTH BY THE CITY OF DUBLIN, INCLUDING THOSE STANDARDS GREATER THAN MINIMUM WHERE, IN MY OPINION, THEY ARE NEEDED TO PROTECT THE SAFETY OF THE PUBLIC.

MICHAEL J. COUVREUR, PE
REGISTERED PROFESSIONAL ENGINEER No. E-70851
10/28/2024
DATE

ENGINEER

THE KLEINGERS GROUP
350 WORTHINGTON ROAD, SUITE H
WESTERVILLE, OH 43082
PHONE: (614) 882-4311
FAX: (614) 882-4479
CONTACT: MIKE COUVREUR
EMAIL: MIKE.COUVREUR@KLEINGERS.COM

OWNER

DUBLIN CITY SCHOOLS
5175 EMERALD PARKWAY
DUBLIN, OH 43017
CONTACT: JEFF STARK, COO
PHONE: (614) 760-4323
EMAIL: STARK_JEFF@DUBLINSCHOOLS.NET

SHEET INDEX

SITE DEVELOPMENT DATA

EXISTING USE:	HIGH SCHOOL CAMPUS
PROPOSED USE:	HIGH SCHOOL CAMPUS
ZONING DISTRICT:	PUD
TOTAL SITE AREA:	72.56 ACRES
EXISTING IMPERVIOUS AREA:	21.90 ACRES
EXISTING OPEN SPACE AREA:	50.66 ACRES
EXISTING TOTAL SITE COVERAGE:	30.18%
PROPOSED IMPERVIOUS AREA:	4.11 ACRES
POST IMPERVIOUS AREA:	26.01 ACRES
POST OPEN SPACE AREA:	46.55 ACRES
POST TOTAL SITE COVERAGE:	35.85 %
FLOOD ZONE DESIGNATION:	ZONE X MAP 39049C0018K, 06/17/2008

*INCLUDES PARKING LOT PAVING, DRIVEWAY AND SIDEWALKS

APPROVALS

SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSES AND GENERAL LOCATION OF THE PROJECT AND DOES NOT CONSTITUTE ASSURANCE TO OPERATE AS INTENDED. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE PROFESSIONAL CIVIL ENGINEER PREPARING THE PLANS.

APPROVED:

DIRECTOR OF ENGINEERING/CITY ENGINEER — DATE
CITY OF DUBLIN, OHIO
PAUL A. HAMMERSMITH, P.E.

DIRECTOR OF COMMUNITY PLANNING AND DEVELOPMENT — DATE
CITY OF DUBLIN, OHIO
JENNIFER M. RAUCH, AICP

THE KLEINGERS GROUP
CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE
www.kleingers.com
350 Worthington Rd
Suite H
Westerville, OH 43082
614.882.4311

SEAL:
STATE OF OHIO
MICHAEL J. COUVREUR
E-70851
REGISTERED
PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION

DUBLIN COFFMAN HIGH SCHOOL TURF FIELDS
6780 COFFMAN ROAD
CITY OF DUBLIN
DUBLIN, OH 43017

PROJECT NO: **240173.001**
DATE: **10/28/2024**
SCALE: **AS SHOWN**
SHEET NAME: **TITLE SHEET**
1/18
SHEET NO. **C101**

H:\Columbus\2024\240173\001_DWG_Sheet\240173T1L001.dwg, 10/24/2024 5:39 PM, Mike Couvreur

GENERAL NOTES

1. CITY OF COLUMBUS AND OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITIONS, AND ANY SUPPLEMENTS THERETO (HEREAFTER REFERRED TO AS STANDARD SPECIFICATIONS), SHALL GOVERN ALL CONSTRUCTION ITEMS UNLESS OTHERWISE NOTED. IF A CONFLICT BETWEEN SPECIFICATIONS IS FOUND, THE MORE STRICT SPECIFICATION WILL APPLY AS DECIDED BY THE CITY ENGINEER. ITEM NUMBERS LISTED REFER TO CITY OF COLUMBUS ITEM NUMBERS UNLESS OTHERWISE NOTED.

2. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES OF CONSTRUCTION THAT ARE NOT SPECIFIED HEREIN. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR SAFETY ON THE WORK SITE, OR FOR FAILURE BY THE CONTRACTOR TO PERFORM WORK ACCORDING TO CONTRACT DOCUMENTS.

3. THE DEVELOPER OR CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS INCLUDING BUT NOT LIMITED TO OHIO EPA PERMITS TO INSTALL (PTI) AND NOTICES OF INTENT (NOI), BUILDING PERMITS, ETC.

4. THE CONTRACTOR SHALL NOTIFY THE CITY OF DUBLIN DIVISION OF ENGINEERING IN WRITING AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.

5. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970. THE CONTRACTOR SHALL EXERCISE PRECAUTION ALWAYS FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT SHALL ALSO BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, INCLUDING THE REQUIREMENTS FOR CONFINED SPACES PER 29 CFR 1910.146.

6. FOLLOWING COMPLETION OF CONSTRUCTION OF THE SITE IMPROVEMENTS AND BEFORE REQUESTING OCCUPANCY, A PROOF SURVEY SHALL BE PROVIDED TO THE DIVISION OF ENGINEERING THAT DOCUMENTS "AS-BUILT" ELEVATIONS, DIMENSIONS, SLOPES AND ALIGNMENTS OF ALL ELEMENTS OF THIS PROJECT. THE PROOF SURVEY SHALL BE PREPARED, SIGNED AND SUBMITTED BY THE PROFESSIONAL ENGINEER WHO SEALED THE CONSTRUCTIONS DRAWINGS.

7. THE CONTRACTOR SHALL RESTRICT CONSTRUCTION ACTIVITY TO PUBLIC RIGHT-OF-WAY AND AREAS DEFINED AS PERMANENT AND/OR TEMPORARY CONSTRUCTION EASEMENTS, UNLESS OTHERWISE AUTHORIZED BY THE CITY ENGINEER.

8. THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, REFERENCE POINTS, STAKES AND OTHER SURVEY REFERENCE MONUMENTS OR MARKERS. IN CASES OF WILLFUL OR CARELESS DESTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATIONS. RESETTING OF MARKERS SHALL BE PERFORMED BY AN OHIO PROFESSIONAL SURVEYOR AS APPROVED BY THE CITY ENGINEER.
9. NON-RUBBER TIRED VEHICLES SHALL NOT BE MOVED ON OR ACROSS PUBLIC STREETS OR HIGHWAYS WITHOUT THE WRITTEN PERMISSION OF THE CITY ENGINEER.

10. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAN EXISTED BEFORE CONSTRUCTION. DRAINAGE DITCHES OR WATERCOURSES THAT ARE DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THE GRADES AND CROSS-SECTIONS THAT EXISTED BEFORE CONSTRUCTION.

11. TRACKING OR SPILLING MUD, DIRT OR DEBRIS UPON STREETS, RESIDENTIAL OR COMMERCIAL DRIVES, SIDEWALKS OR BIKE PATHS IS PROHIBITED ACCORDING TO SECTION 97.38 OF THE DUBLIN CODE OF ORDINANCES. ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE CITY. IF THE CONTRACTOR FAILS TO REMOVE SAID MUD, DIRT, DEBRIS, OR SPILLAGE, THE CITY RESERVES THE RIGHT TO REMOVE THESE MATERIALS AND CLEAN AFFECTED AREAS, THE COST OF WHICH SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

12. DISPOSAL OF EXCESS EXCAVATION WITHIN SPECIAL FLOOD HAZARD AREAS (100-YEAR FLOODPLAIN) IS NOT PERMITTED.

13. ALL SIGNS, LANDSCAPING, STRUCTURES OR OTHER APPURTENANCES WITHIN RIGHT-OF-WAY DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

14. ALL FIELD TILE BROKEN OR ENCOUNTERED DURING EXCAVATION SHALL BE REPLACED OR REPAIRED AND CONNECTED TO THE PUBLIC STORM SEWER SYSTEM AS DIRECTED BY THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

15. ALL PRECAST CONCRETE PRODUCTS SHALL BE INSPECTED AT THE LOCATION OF MANUFACTURE. APPROVED PRECAST CONCRETE PRODUCTS WILL BE STAMPED OR HAVE SUCH IDENTIFICATION NOTING THAT INSPECTION HAS BEEN CONDUCTED BY THE CITY OF COLUMBUS. PRECAST CONCRETE PRODUCTS WITHOUT PROOF OF INSPECTION SHALL NOT BE APPROVED FOR INSTALLATION.

16. BACKFILL WITHIN A 1:1 INFLUENCE LINE OF EXISTING STRUCTURES (HOUSES, GARAGES, ETC.) OR PUBLIC INFRASTRUCTURE (PAVEMENT, CURBS, SIDEWALKS, BIKE PATHS, ETC.) SHALL BE COMPACTED GRANULAR BACKFILL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR FLOWABLE CDF, TYPE II ACCORDING TO ITEM 613. ITEM 911 OF THE STANDARD SPECIFICATIONS SHALL BE USED ELSEWHERE.

17. THE CONTRACTOR SHALL SUBMIT A COPY OF THE APPROVED CONSTRUCTION DRAWINGS AND A LIST OF PROPOSED PRECAST CONCRETE PRODUCT MANUFACTURERS TO THE CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION BEFORE COMMENCING CONSTRUCTION.

SEND THE INFORMATION TO THE FOLLOWING ADDRESS:

CONSTRUCTION INSPECTION DIVISION
CITY OF COLUMBUS
1800 EAST 17TH AVENUE
COLUMBUS, OHIO 43219

SEND A COPY OF THE TRANSMITTAL LETTER TO THE FOLLOWING ADDRESS:

DIVISION OF ENGINEERING
CITY OF DUBLIN
6555 SHIER RINGS ROAD
DUBLIN, OHIO 43016

18. ALL TRENCHES WITHIN PUBLIC RIGHT-OF-WAY SHALL BE BACKFILLED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS OR SECURELY PLATED DURING NONWORKING HOURS. TRENCHES OUTSIDE THESE AREAS SHALL BE BACKFILLED OR SHALL BE PROTECTED BY APPROVED TEMPORARY FENCING OR BARRICADES DURING NONWORKING HOURS. CLEAN UP SHALL FOLLOW CLOSELY BEHIND THE TRENCHING OPERATION.

19. ALL TREES WITHIN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. TREES TO BE PRESERVED SHALL BE PROTECTED WITH HIGH VISIBILITY FENCING PLACED A MINIMUM 15 FEET FROM THE TREE TRUNK. TREES 6 – INCHES OR GREATER AT DBH (DIAMETER BREAST HEIGHT) MUST BE PROTECTED WITH FENCING PLACED AT THE CRITICAL ROOT ZONE OR 15 FEET, WHICHEVER IS GREATER. TREES NOT INDICATED ON THE APPROVED CONSTRUCTION DRAWINGS FOR REMOVAL MAY NOT BE REMOVED WITHOUT PRIOR APPROVAL OF THE DIVISION OF ENGINEERING.

20. CONDUIT MUST BE DIRECTIONALLY BORED ACROSS STREETS INSTEAD OF OPEN CUT, UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER. USE OF PNEUMATIC AIR RAM DEVICES IS NOT PERMITTED. PERMITS TO CONSTRUCT IN THE RIGHT-OF-WAY OF EXISTING STREETS MUST BE OBTAINED FROM THE CITY OF DUBLIN DIVISION OF ENGINEERING BEFORE COMMENCING CONSTRUCTION. SHOULD OPEN CUTTING OF EXISTING PAVEMENT BE PERMITTED, CONTROLLED DENSITY BACKFILL (TYPE II) SHALL BE USED IN PLACE OF COMPACTED GRANULAR BACKFILL, ACCORDING TO ITEM 613 OF THE STANDARD SPECIFICATIONS.

21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION OF TRENCHES WITHIN THE RIGHT-OF-WAY AND PUBLIC EASEMENTS FOR A PERIOD OF ONE YEAR FROM THE FINAL ACCEPTANCE OF THE WORK, AND SHALL MAKE ANY NECESSARY REPAIRS AT NO COST TO THE CITY.

22. PAVEMENTS SHALL BE CUT IN NEAT, STRAIGHT LINES THE FULL DEPTH OF THE EXISTING PAVEMENT, OR AS REQUIRED BY THE CITY ENGINEER. PAVEMENT REPLACEMENT SHALL BE CONDUCTED ACCORDING TO CITY OF COLUMBUS STANDARD DRAWING 1441 DR. A AND APPLICABLE CITY OF DUBLIN STANDARD DRAWINGS. THE REPLACEMENT OF DRIVEWAYS, HANDICAPPED RAMPS, SIDEWALKS, BIKE PATHS, PARKING LOT PAVEMENT, ETC. SHALL BE PROVIDED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS AND CITY OF DUBLIN STANDARD CONSTRUCTION DRAWINGS.

23. TREE TRIMMING WITHIN THE CONSTRUCTION ZONE IS TO BE COMPLETED BY A CERTIFIED ARBORIST. AT THE COMPLETION OF THE PROJECT, THE ARBORIST IS TO RETURN AND TRIM ANY BROKEN BRANCHES AS NEEDED.

24. ANY MODIFICATION TO THE WORK SHOWN ON DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE CITY ENGINEER, CITY OF DUBLIN.

25. ALL INLETS SHALL BE CHANNELIZED.

26. PARK AREAS SHALL BE FINE-GRADED AND SEEDED WITH THE FOLLOWING MIXTURE:
    -IMPROVED KENTUCKY BLUEGRASS: 40% OF WEIGHT (2 VARIETIES IN EQUAL PARTS)
    -IMPROVED PERENNIAL RYE: 60% OF WEIGHT (2 VARIETIES IN EQUAL PARTS)
    -GERMINATION RATE: 85%
    -APPLICATION RATE: 7 LBS PER 1000 SQ FT OR AS DIRECTED BY THE DIVISION OF PARKS AND RECREATION, CITY OF DUBLIN, OHIO.

27. TRAFFIC CONTROL AND OTHER REGULATORY SIGNS SHALL BE TYPE S WITH A SQUARE POST ANCHOR BASE INSTALLATION AND MEET ALL REQUIREMENTS OF ODOT TC-41.20 AND APPLICABLE CITY OF DUBLIN SPECIFICATIONS.

28. STREET SIGNS SHALL MEET ALL CITY OF DUBLIN SPECIFICATIONS WITH LETTERING COLORED IN WHITE DISPLAYED OVER A BROWN BACKGROUND. SIGN TUBING SHALL BE BROWN IN COLOR AND CONFORM WITH THE TYPE S, SQUARE POST ANCHOR BASE INSTALLATION REQUIREMENTS OF ODOT TC-41.20.

UTILITIES

1. THE FOLLOWING UTILITIES ARE KNOWN TO BE LOCATED WITHIN THE LIMITS OF THIS PROJECT:

AEP
PAUL PAXTON
777 HOPEWELL DRIVE
HEATH, OHIO 43056
(800) 672-2231
ptpaxton@aep.com

CITY OF COLUMBUS
910 DUBLIN ROAD
COLUMBUS, OH 43215
(614) 883-6829

FIBERTECH
JON TARNOWSKI
720 B LAKEVIEW PLAZA
WORTHINGTON, OH 43085
(866) 697-5100
jon.tarnowski@crowncastle.com

AT&T
DONALD G. MARSHALL JR.
111 NORTH 4TH STREET
COLUMBUS, OHIO 43215
(614) 223-7276
G01553@att.com

CITY OF DUBLIN
6555 SHIER RINGS RD
DUBLIN, OH 43016
(614) 410-4740

2. THE CONTRACTOR SHALL GIVE NOTICE OF INTENT TO CONSTRUCT TO OHIO UTILITIES PROTECTION SERVICE (TELEPHONE NUMBER 800-362-2764), PRODUCER'S UNDERGROUND PROTECTION SERVICE (TELEPHONE NUMBER 614-587-0486), AND TO OWNERS OF UNDERGROUND UTILITIES THAT ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE. NOTICE SHALL BE GIVEN AT LEAST 2 WORKING DAYS BEFORE START OF CONSTRUCTION.

3. THE IDENTITY AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY. THE CITY OF DUBLIN AND THE CITY ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR DEPTHS OF UNDERGROUND FACILITIES SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF THE SAME AND FOR ANY RESULTING CONTINGENT DAMAGE.

4. LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

5. WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE CITY ENGINEER.

6. PUBLIC STREET LIGHTING MAY BE IN THE VICINITY OF THIS PROJECT. CONTACT THE CITY OF DUBLIN, DIVISION OF ENGINEERING AT 410-4637, TWO DAYS PRIOR TO BEGINNING WORK.

TRAFFIC CONTROL

1. TRAFFIC CONTROL SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR ACCORDING TO OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), CURRENT EDITION.

2. ALL TRAFFIC LANES OF PUBLIC ROADWAYS SHALL BE FULLY OPEN TO TRAFFIC FROM 7:00 AM TO 9:00 AM AND FROM 4:00 PM TO 6:00 PM UNLESS AUTHORIZED DIFFERENTLY BY THE CITY ENGINEER. AT ALL OTHER HOURS THE CONTRACTOR SHALL MAINTAIN MINIMUM 2-WAY, 1-LANE TRAFFIC OPERATION ON LIGGETT ROAD WITH FLAGGERS DURING WORKING HOURS PER TA-10. UNIFORMED, OFF-DUTY POLICE OFFICERS SHALL REPLACE FLAGGERS DESIGNATED BY THE OMUTCD, AND SHALL BE PRESENT WHENEVER ONE-LANE, TWO-WAY TRAFFIC CONTROL IS IN EFFECT. POLICE CRUISERS MAY BE REQUIRED AS DIRECTED BY THE CITY ENGINEER.

3. IF THE CITY ENGINEER DETERMINES THAT THE CONTRACTOR IS NOT PROVIDING PROPER PROVISIONS FOR TRAFFIC CONTROL, THE CITY ENGINEER SHALL ASSIGN UNIFORMED, OFF-DUTY POLICE OFFICERS TO THE PROJECT AT NO COST TO THE CITY.

4. STEADY-BURNING, TYPE "C" LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS, AND SIMILAR TRAFFIC CONTROL DEVICES IN USE AT NIGHT.

5. ACCESS FROM PUBLIC ROADWAYS TO ALL ADJOINING PROPERTIES FOR EXISTING RESIDENTS OR BUSINESSES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT FOR MAIL, PUBLIC WATER AND SANITARY SEWER SERVICE, AND EMERGENCY VEHICLES. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN DETAILING THE PROPOSED MAINTENANCE OF TRAFFIC PROCEDURES. THE TRAFFIC CONTROL PLAN MUST INCORPORATE ANY TRAFFIC CONTROL DETAILS CONTAINED HEREIN. THE TRAFFIC CONTROL PLAN PROPOSED BY THE CONTRACTOR MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.

EROSION AND SEDIMENT CONTROL

1. THE CONTRACTOR OR DEVELOPER IS RESPONSIBLE FOR SUBMITTING A NOTICE OF INTENT (NOI) TO BE REVIEWED AND APPROVED BY THE OHIO EPA. THE NOI MUST BE SUBMITTED TO OEPA 45 DAYS PRIOR TO THE START OF CONSTRUCTION AND MAY ENTITLE COVERAGE UNDER THE OHIO EPA GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. A PROJECT LOCATION MAP MUST BE SUBMITTED WITH THE NOI. A SEDIMENT AND EROSION CONTROL PLAN MUST BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL IF A SEDIMENT AND EROSION CONTROL PLAN HAS NOT ALREADY BEEN INCLUDED WITH THE APPROVED CONSTRUCTION DRAWINGS. THIS PLAN MUST BE MADE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE DESIGN OF EROSION CONTROL SYSTEMS SHALL FOLLOW THE REQUIREMENTS OF OHIO EPA, ITEM 207 OF OHIO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND THE CITY ENGINEER. AN INDIVIDUAL NPDES STORMWATER DISCHARGE PERMIT MAY BE REQUIRED. THE CONTRACTOR SHALL BE CONSIDERED THE PERMITTEE.

2. THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL AT ALL POINTS WHERE STORM WATER RUNOFF LEAVES THE PROJECT, INCLUDING WATERWAYS, OVERLAND SHEET FLOW, AND STORM SEWERS.

3. ACCEPTED METHODS OF PROVIDING EROSION/SEDIMENT CONTROL INCLUDE BUT ARE NOT LIMITED TO: SEDIMENT BASINS, SILT FILTER FENCE, AGGREGATE CHECK DAMS, AND TEMPORARY GROUND COVER. HAY OR STRAW BALES ARE NOT PERMITTED.

4. THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE OF THE WORK AREA AT ALL TIMES CONSISTENT WITH EROSION CONTROL PRACTICES.

5. DISTURBED AREAS THAT WILL REMAIN UNWORKED FOR 30 DAYS OR MORE SHALL BE SEEDED OR PROTECTED WITHIN SEVEN CALENDAR DAYS OF THE DISTURBANCE. OTHER SEDIMENT CONTROLS THAT ARE INSTALLED SHALL BE MAINTAINED UNTIL VEGETATIVE GROWTH HAS BEEN ESTABLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY SEDIMENT DEVICES AT THE CONCLUSION OF CONSTRUCTION BUT NOT BEFORE GROWTH OF PERMANENT GROUND COVER.

BLASTING (IF PERMITTED)

1. THE CONTRACTOR MUST OBTAIN A BLASTING PERMIT FROM WASHINGTON TOWNSHIP FIRE DEPARTMENT PRIOR TO BLASTING FOR ROCK EXCAVATION. THE CONTRACTOR SHALL SUBMIT BLASTING REPORTS UPON COMPLETION OF BLASTING TO THE CITY ENGINEER, THE OWNER, AND THE OWNER'S ENGINEER. TOP OF ROCK ELEVATIONS SHALL BE SHOWN ON "AS-BUILT" CONSTRUCTION DRAWINGS.

SANITARY SEWERS

1. CONNECTIONS TO THE SANITARY SEWER WILL BE PERMITTED UPON RECEIVING AN OEPA PERMIT TO INSTALL(PTI), AND UPON RECEIVING A SATISFACTORY LETTER FROM THE DESIGN ENGINEER STATING THAT THE PROJECT HAS BEEN CONSTRUCTED AS PER THE PLANS, AND ALL OF THE CONDITIONS OF THE PTI HAVE BEEN MET. THE DEVELOPER IS RESPONSIBLE FOR OBTAINING ALL REQUIRED OHIO EPA APPROVALS AND PAYING REVIEW FEES.

2. SANITARY SEWAGE COLLECTION SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RULES, REGULATIONS, STANDARDS AND SPECIFICATIONS OF THE CITY OF DUBLIN, OHIO EPA, OHIO DEPARTMENT OF HEALTH AND THE CURRENT EDITION OF THE GREAT LAKES-UPPER MISSISSIPPI RIVER BOARD (TEN STATES) - RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES.

3. THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPE WITH DIAMETERS 8 INCHES TO 10 INCHES SHALL BE PVC SEWER PIPE ASTM D3034, SDR 35. PIPE FOR 6 INCH DIAMETER HOUSE SERVICE LINES SHALL BE PVC PIPE ASTM D3034, SDR 35. PVC PIPE SHALL NOT BE USED AT DEPTHS GREATER THAN 28 FEET. PIPE MATERIALS AND RELATED STRUCTURES SHALL BE SHOP TESTED IN ACCORDANCE WITH CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION QUALITY CONTROL REQUIREMENTS.

4. THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPES WITH DIAMETERS 12 INCHES TO 30 INCHES SHALL BE PVC SEWER PIPE, ASTM D3034, SDR 35 OR SANITITE HP PIPE, ASTM F2736. SANITARY SEWER PIPES WITH DIAMETERS 30 INCHES TO 60 INCHES SHALL BE PVC SEWER PIPE, ASTM D3034, SDR 35 OR SANITITE HP PIPE, ASTM F2764.

5. ALL IN-LINE WYE AND TEE CONNECTIONS IN CONCRETE SEWERS, 18-INCH DIAMETER AND LARGER, SHALL BE EITHER KOR-N-TEE OR KOR-N-SEAL CONNECTIONS CONFORMING TO THE MANUFACTURER'S RECOMMENDATIONS.

6. GRANULAR BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR CONTROLLED DENSITY BACKFILL ACCORDING TO ITEM 613, TYPE II OF THE STANDARD SPECIFICATIONS AS DIRECTED BY THE CITY ENGINEER.

7. ALL MANHOLE LIDS SHALL BE PROVIDED WITH CONTINUOUS SELF-SEALING GASKETS. THE APPROVED CONSTRUCTION DRAWINGS SHALL SHOW WHERE BOLT-DOWN LIDS ARE REQUIRED. SANITARY SEWER MANHOLES SHALL BE PRECAST CONCRETE OR AS APPROVED BY THE CITY ENGINEER AND CONFORM TO THE CITY OF DUBLIN SANITARY MANHOLE STANDARD DRAWING. MANHOLE LIDS SHALL INCLUDE CITY OF DUBLIN LOGO.
8. ALL PVC SEWER PIPES SHALL BE DEFLECTION TESTED NO LESS THAN 60 DAYS AFTER COMPLETION OF BACKFILLING OPERATIONS. ALL OTHER REQUIREMENTS SHALL BE ACCORDING TO ITEM 901.21 OF THE STANDARD SPECIFICATIONS.

9. TEMPORARY BULKHEADS SHALL BE PLACED IN PIPES AT LOCATIONS SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AND SHALL REMAIN IN PLACE UNTIL THE PERMIT TO INSTALL (PTI) HAS BEEN ISSUED BY THE OEPA AND THE SEWERS HAVE BEEN APPROVED FOR USE BY THE CITY ENGINEER. THE COST FOR FURNISHING, INSTALLING, MAINTAINING, AND REMOVING BULKHEADS SHALL BE INCLUDED IN THE CONTRACT UNIT BID PRICE FOR THE VARIOUS SANITARY SEWER ITEMS.

10. ALL SANITARY SEWERS INCLUDING SANITARY SEWER SERVICE LINES SHALL BE SUBJECTED TO AND PASS INFILTRATION OR EXFILTRATION TESTS ACCORDING TO ITEM 901 OF THE STANDARD SPECIFICATIONS AND MUST BE APPROVED FOR USE BY THE CITY ENGINEER BEFORE ANY SERVICE CONNECTIONS ARE TAPPED INTO SEWERS.

11. FOR SANITARY SEWER INFILTRATION, LEAKAGE THROUGH JOINTS SHALL NOT EXCEED 100 GALLONS PER INCH OF TRIBUTARY SEWER DIAMETER PER 24 HOURS PER MILE OF LENGTH OR THE COMPUTED EQUIVALENT. ALL SANITARY SEWERS SHALL BE TESTED.

12. AT THE DETERMINATION OF THE CITY ENGINEER, THE CONTRACTOR MAY BE REQUIRED TO PERFORM A TV INSPECTION OF THE SANITARY SEWER SYSTEM PRIOR TO FINAL ACCEPTANCE BY THE CITY. THIS WORK SHALL BE COMPLETED BY THE CONTRACTOR AT HIS EXPENSE.

13. VISIBLE LEAKS OR OTHER DEFECTS OBSERVED OR DISCOVERED DURING TV INSPECTION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER.

14. ROOF DRAINS, FOUNDATION DRAINS, FIELD TILE OR OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE STRICTLY PROHIBITED ACCORDING TO SECTION 51.23 OF THE DUBLIN CODE OF ORDINANCES.

15. 15. ALL WATER LINES SHALL BE LOCATED AT LEAST 10 FEET HORIZONTALLY AND 18 INCHES VERTICALLY, FROM SANITARY SEWERS AND STORM SEWERS, TO THE GREATEST EXTENT PRACTICABLE. WHERE SANITARY SEWERS CROSS WATER MAINS OR OTHER SEWERS OR OTHER UTILITIES, TRENCH BACKFILL SHALL BE PLACED BETWEEN THE PIPES CROSSING AND SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS. IN THE EVENT THAT A WATER LINE MUST CROSS WITHIN 18 INCHES OF A SANITARY SEWER, THE SANITARY SEWER SHALL BE CONCRETE ENCASED OR CONSIST OF DUCTILE IRON PIPE MATERIAL.

16. SERVICE RISERS SHALL BE INSTALLED WHERE THE DEPTH FROM WYES TO PROPOSED GROUND ELEVATION EXCEEDS 10 FEET. TOPS OF RISERS SHALL BE NO LESS THAN 9 FEET BELOW PROPOSED GROUND ELEVATION IF BASEMENT SERVICE IS INTENDED.

17. WHERE SERVICE RISERS ARE NOT INSTALLED, A MINIMUM 5-FOOT LENGTH OF SANITARY SEWER SERVICE PIPE OF THE SAME SIZE AS THE WYE OPENING SHALL BE INSTALLED.

18. THE CONTRACTOR SHALL FURNISH AND PLACE, AS DIRECTED, APPROVED WYE POLES MADE OF 2 INCHES X 2 INCHES LUMBER AT ALL WYE LOCATIONS, ENDS OF EXTENDED SERVICES, OR AT THE END OF EACH RISER WHERE RISERS ARE REQUIRED. WYE POLES SHALL BE VISIBLE BEFORE ACCEPTANCE BY THE CITY. THE COST OF THESE POLES SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS SEWER ITEMS.

19. EXISTING SANITARY SEWER FLOWS SHALL BE MAINTAINED AT ALL TIMES. COSTS FOR PUMPING AND BYPASSING SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PRICE BID FOR THE RELATED ITEMS.

20. THE CONTRACTOR SHALL FURNISH ALL MATERIAL, EQUIPMENT, AND LABOR TO MAKE CONNECTIONS TO EXISTING MANHOLES. THE SEWER PIPE TO MANHOLE CONNECTIONS FOR ALL SANITARY SEWERS SHALL BE FLEXIBLE AND WATERTIGHT. ALL HOLES SHALL BE NEATLY CORED. THE SEWER PIPE BARREL AT THE SPRINGLINE SHALL NOT EXTEND MORE THAN 1 INCH BEYOND THE INSIDE FACE OF THE MANHOLE. TO MAINTAIN FLEXIBILITY IN THE CONNECTION, A 1-INCH SPACE SHALL BE LEFT BETWEEN THE END OF THE PIPE INSIDE THE MANHOLE AND THE CONCRETE CHANNEL; THIS SPACE SHALL BE FILLED WITH A WATERPROOF FLEXIBLE JOINT FILLER. ANY METAL THAT IS USED SHALL BE TYPE 300 SERIES STAINLESS STEEL. THE CONNECTION MAY BE ANY OF THE FOLLOWING TYPES:

    A. RUBBER SLEEVE WITH STAINLESS STEEL BANDING.
        1) KOR-N-SEAL AS MANUFACTURED BY NATIONAL POLLUTION CONTROL SYSTEMS, INC.
        2) LOCK JOINT FLEXIBLE MANHOLE SLEEVE AS MANUFACTURED BY INTERPACE CORPORATION.
        3) OR EQUAL AS APPROVED BY THE CITY ENGINEER.

    B. RUBBER GASKET COMPRESSION.
        1) PRESS WEDGE II AS MANUFACTURED BY PRESS-SEAL GASKET CORPORATION.
        2) DURA SEAL III AS MANUFACTURED BY DURA TECH, INC.
        3) LINK-SEAL AS MANUFACTURED BY THUNDERLINE CORPORATION.
        4) OR EQUAL AS APPROVED BY THE CITY ENGINEER.

    THE COST FOR THIS WORK ALONG WITH A NEW CHANNELIZED BASE FOR THE MANHOLE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE RELATED ITEMS OF WORK.

WATER LINE

1. ALL WATER LINE MATERIALS SHALL BE PROVIDED AND INSTALLED ACCORDING TO CURRENT SPECIFICATIONS OF THE CITY OF COLUMBUS DIVISION OF WATER.

2. ALL PUBLIC WATER PIPE WITH A DIAMETER 3 INCHES TO 8 INCHES SHALL BE DUCTILE IRON, CLASS 53. PUBLIC WATER PIPE 12 INCHES IN DIAMETER OR LARGER SHALL BE DUCTILE IRON, CLASS 54. PUBLIC WATER PIPE 20 INCHES IN DIAMETER OR LARGER MAY BE PRESTRESSED CONCRETE PIPE. PRIVATE WATER PIPE SHALL MEET THE APPROVAL OF THE CITY OF COLUMBUS DIVISION OF WATER PRIOR TO APPROVAL OF THE CONSTRUCTION DRAWINGS.

3. ONLY FIRE HYDRANTS CONFORMING TO CITY OF COLUMBUS STANDARDS WILL BE APPROVED FOR USE.

4. PUBLIC WATER LINES SHALL BE DISINFECTED BY THE CITY OF COLUMBUS DIVISION OF WATER. REQUESTS FOR WATER LINE CHLORINATION SHALL BE MADE THROUGH THE CITY OF DUBLIN DIVISION OF ENGINEERING. THE COST FOR CHLORINATION SHALL BE PAID FOR BY THE CONTRACTOR.

5. ALL WATER LINES SHALL BE DISINFECTED ACCORDING TO ITEM 801.13 OF THE STANDARD SPECIFICATIONS. SPECIAL ATTENTION IS DIRECTED TO APPLICABLE SECTIONS OF AMERICAN WATER WORKS ASSOCIATION SPECIFICATION C-651, PARTICULARLY FOR FLUSHING (SECTION 5) AND FOR CHLORINATING VALVES AND FIRE HYDRANTS (SECTION 7). PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 801.12 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS. WHEN WATER LINES ARE READY FOR DISINFECTION, THE CITY OF DUBLIN SHALL SUBMIT TWO (2) SETS OF "AS-BUILT" PLANS, AND A LETTER STATING THAT THE WATER LINES HAVE BEEN PRESSURE TESTED AND NEED TO BE DISINFECTED, TO THE CITY OF COLUMBUS,DIVISION OF WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE DISINFECTION OF ALL WATER LINES CONSTRUCTION PER THIS PLAN. PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 801.12 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS.

6. THE CONTRACTOR SHALL PAINT ALL FIRE HYDRANTS ACCORDING TO CITY OF DUBLIN STANDARDS. THE COST OF PAINTING FIRE HYDRANTS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR FIRE HYDRANTS.

7. NO WATER TAPS OR SERVICE CONNECTIONS (E.G., TO CURB STOPS OR METER PITS) MAY BE ISSUED UNTIL ADJACENT PUBLIC WATER LINES SERVING THE CONSTRUCTION SITE HAVE BEEN DISINFECTED BY THE CITY OF COLUMBUS DIVISION OF WATER AND HAVE BEEN ACCEPTED BY THE CITY ENGINEER. A TAP PERMIT FOR EACH WATER SERVICE MUST BE OBTAINED FROM THE CITY OF DUBLIN AND THE CITY OF COLUMBUS DIVISION OF WATER BEFORE MAKING ANY TAPS INTO PUBLIC WATER LINES.

8. THE CONTRACTOR SHALL NOTIFY THE CITY OF COLUMBUS DIVISION OF WATER AT 645-7788 AND THE CITY OF DUBLIN DIVISION OF ENGINEERING AT LEAST 24 HOURS BEFORE TAPPING INTO EXISTING WATER LINES.

9. ALL WATER MAIN STATIONING SHALL BE BASED ON STREET CENTERLINE STATIONING.

10. ALL BENDS, JOINT DEFLECTIONS AND FITTINGS SHALL BE BACKED WITH CONCRETE PER CITY OF COLUMBUS STANDARDS.

11. THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ALL AFFECTED PROPERTY OWNERS AT LEAST 1 WORKING DAY BUT NOT MORE THAN 3 WORKING DAYS PRIOR TO ANY TEMPORARY INTERRUPTION OF WATER SERVICE. INTERRUPTION OF WATER SERVICE SHALL BE MINIMIZED AND MUST BE APPROVED BY THE CITY ENGINEER.

12. WATER METERS SHALL BE INSTALLED INSIDE PROPOSED STRUCTURES UNLESS A METER PIT INSTALLATION IS APPROVED BY THE CITY OF COLUMBUS DIVISION OF WATER. METER PITS MUST CONFORM TO STANDARD DRAWINGS L-7103, A&B FOR 5/8" THROUGH 1" METERS OR L-6317, A, B, C&D FOR 1-1/2" OR LARGER METERS.

13. WATER LINES TO BE INSTALLED IN EMBANKMENT AREAS SHALL BE PLACED AFTER THE EMBANKMENT HAS BEEN PLACED AND COMPACTED ACCORDING TO THE STANDARD SPECIFICATIONS.

14. CURB STOP BOXES SHALL BE LOCATED AT LEAST 1 FOOT INSIDE THE RIGHT-OF-WAY AND SET AT FINISHED GRADE.

15. IF THE TOP OF THE OPERATING NUT OF ANY VALVE IS GREATER THAN 36 INCHES BELOW FINISHED GRADE, AN EXTENSION STEM SHALL BE FURNISHED TO BRING THE TOP OF THE OPERATING NUT TO WITHIN 24 INCHES OF FINISHED GRADE ELEVATION.

16. ALL WATER LINES SHALL BE PLACED AT A MINIMUM DEPTH OF 4 FEET MEASURED FROM TOP OF FINISHED GRADE TO TOP OF WATER LINE. WATER LINES SHALL BE SET DEEPER AT ALL POINTS WHERE NECESSARY TO CLEAR EXISTING OR PROPOSED UTILITY LINES OR OTHER UNDERGROUND RESTRICTIONS BY A MINIMUM OF 18 INCHES.

17. TWO ¾ INCH TAPS SHALL BE INSTALLED WITHIN 2 FEET OF THE END OF THE LINE ON ALL DEAD-END WATER LINES.

STORM SEWER

1. ALL STORM WATER DETENTION AND RETENTION AREAS AND MAJOR FLOOD ROUTING SWALES SHALL BE CONSTRUCTED TO FINISH GRADE AND HYDRO-SEEDED AND HYDRO-MULCHED ACCORDING TO ITEMS 203 AND 659 OF THE STANDARD SPECIFICATIONS.

2. WHERE PRIVATE STORM SEWERS CONNECT TO PUBLIC STORM SEWERS, THE LAST RUN OF PRIVATE STORM SEWER CONNECTING TO THE PUBLIC STORM SEWER SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM DESIGNATION C76, WALL B, CLASS IV FOR PIPE DIAMETERS 12 INCHES TO 15 INCHES, CLASS III FOR 18 INCHES TO 24 INCH PIPES, AND 27 INCHES AND LARGER PIPE SHALL BE CLASS II, UNLESS OTHERWISE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. INSPECTION IS REQUIRED BY THE CITY OF DUBLIN'S DIVISION OF ENGINEERING.

3. GRANULAR BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR CONTROLLED DENSITY BACKFILL ACCORDING TO ITEM 613, TYPE II OF THE STANDARD SPECIFICATIONS AS DIRECTED BY THE CITY ENGINEER.

4. ALL STORM SEWERS SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM DESIGNATION C76, WALL B, CLASS IV FOR PIPE DIAMETERS 12 INCHES TO 15 INCHES, CLASS III FOR 18 INCHES TO 24 INCH PIPES, AND 27 INCHES AND LARGER PIPE SHALL BE CLASS II, UNLESS OTHERWISE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS.

5. HEADWALLS AND ENDWALLS SHALL BE REQUIRED AT ALL STORM SEWER INLETS OR OUTLETS TO AND FROM STORMWATER MANAGEMENT FACILITIES. NATURAL STONE AND/OR BRICK APPROVED BY THE CITY ENGINEER SHALL BE PROVIDED ON ALL VISIBLE HEADWALLS AND/OR ENDWALLS SURFACES.

6. STORM INLETS OR CATCH BASINS SHALL BE CHANNELIZED AND HAVE BICYCLE SAFE GRATES. MANHOLE LIDS SHALL INCLUDE CITY OF DUBLIN LOGO AND ALL CURB INLET AND CATCH BASIN GRATES SHALL INDLUCE ENGRAVED LETTERING: "DUMP NO WASTE; DRAINS TO RIVER."

7. STORM SEWER OUTLETS GREATER THAN 18 INCHES IN DIAMETER ACCESSIBLE FROM STORMWATER MANAGEMENT FACILITIES OR WATERCOURSES SHALL BE PROVIDED WITH SAFETY GRATES, AS APPROVED BY THE CITY ENGINEER.

8. HP STORM AND HP SANITITE OR APPROVED EQUAL ARE APPROVED ALTERNATIVES TO REINFORCED CONCRETE PIPE IN PAVED AND NON PAVED AREAS AS APPROVED BY THE CITY ENGINEER. THIS INCLUDES APPLICATIONS INSIDE THE RIGHT-OF-WAY.

9. HP STORM AND HP SANITITE OR APPROVED EQUAL PIPE JOINTS SHALL BE WATERTIGHT ACCORDING TO REQUIREMENTS OF ASTM D3212. PIPES SHALL BE JOINED WITH A GASKETED INTEGRAL BELL & SPIGOT JOINT MEETING THE REQUIREMENTS OF ASTM F2881 (HP STORM) AND ASTM F2764 (HP SANITITE). GASKETS SHALL BE INSTALLED BY PIPE MANUFACTURER AND COVERED WITH REMOVABLE, PROTECTIVE WRAP TO ENSURE THE GASKET IS FREE FROM DEBRIS. A JOINT LUBRICANT AVAILABLE FROM THE MANUFACTURER SHALL BE USED ON THE GASKET AND BELL DURING JOINT ASSEMBLY.

10. ALL BEDDING MATERIAL SHALL BE IN ACCORDANCE WITH CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S149.

11. BACKFILL MATERIAL SHALL BE PLACED IN ACCORDANCE WITH ITEM 911 OR ITEM 912 OF THE CITY OF COLUMBUS CONSTRUCTION MATERIAL SPECIFICATIONS (CMS).

12. BACKFILL MATERIAL IN AREAS LOCATED OUTSIDE THE PUBLIC RIGHT-OF-WAY SHALL BE PLACED IN ACCORDANCE WITH ITEM 901 OF THE CITY OF COLUMBUS (CMS).

13. ALL HP STORM AND HP SANITITE PIPE (FOR STORM SEWER) SHALL BE MANDREL TESTED IN ACCORDANCE WITH CITY OF COLUMBUS ITEM 901.21, WITH THE EXCEPTION THAT THE WAITING PERIOD PRIOR TO TESTING SHALL BE 30 DAYS.

MAIL DELIVERY

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT US MAIL DELIVERY WITHIN THE PROJECT LIMITS IS NOT DISRUPTED BY CONSTRUCTION OPERATIONS. THIS RESPONSIBILITY IS LIMITED TO RELOCATION OF MAILBOXES TO A TEMPORARY LOCATION THAT WILL ALLOW THE COMPLETION OF THE WORK AND SHALL ALSO INCLUDE THE RESTORATION OF MAILBOXES TO THEIR ORIGINAL LOCATION OR APPROVED NEW LOCATION. ANY RELOCATION OF MAILBOX SERVICES MUST BE FIRST COORDINATED WITH THE US POSTAL SERVICE AND THE HOMEOWNER.

2. BEFORE RELOCATING ANY MAILBOXES, THE CONTRACTOR SHALL CONTACT THE U.S. POSTAL SERVICE AND RELOCATE MAILBOXES ACCORDING TO THE REQUIREMENTS OF THE POSTAL SERVICE.

USE OF FIRE HYDRANTS

1. THE CONTRACTOR SHALL MAKE PROPER ARRANGEMENTS WITH THE DUBLIN SERVICE DEPARTMENT AND THE COLUMBUS DIVISION OF WATER FOR THE USE OF FIRE HYDRANTS WHEN USED FOR WORK PERFORMED UNDER THIS CONTRACT AND PROVIDE THE CITY OF DUBLIN A COPY OF THE HYDRANT USAGE PERMIT OBTAINED FROM THE CITY OF COLUMBUS. THE CONTRACTOR SHALL ALSO SEND A COPIES OF PERMITS OBTAINED FROM DUBLIN AND COLUMBUS TO THE WASHINGTON AND/OR PERRY TOWNSHIP FIRE DEPARTMENT. PERMITS SHALL BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES.

2. BEFORE THE FINAL ESTIMATE IS PAID, THE CONTRACTOR SHALL SUBMIT A LETTER FROM THE CITY OF COLUMBUS DIVISION OF WATER TO THE CITY ENGINEER STATING THAT THE CONTRACTOR HAS RETURNED THE SIAMESE VALVE TO THE CITY OF COLUMBUS AND HAS PAID ALL COSTS ARISING FROM THE USE OF THE FIRE HYDRANTS.

ITEM	QUANTITY	UNIT	DESCRIPTION
201	1	LS	CLEARING AND GRUBBING
201	24	EA	TREE REMOVED, 18-INCH SIZE
201	3	EA	TREE REMOVED, 30-INCH SIZE
202	3	EA	CATCH BASIN REMOVED
202	476	LF	STORM SEWER REMOVED
207	4	CY	ROCK CHANNEL PROTECTION TYPE C WITHOUT FILTER
207	2,198	LF	STRAW WATTLE
207	1	EA	CONCRETE WASHOUT AREA
207	6	EA	DANDY SACK INLET PROTECTION
207	1	LS	STABILIZED CONSTRUCTION ENTRANCE
207	3	EA	COMPOST SOCK CHECK DAM
604	1	EA	HEADWALL (COC-AA-S168) WITH STONE VENEER
604	3	EA	MODIFIED ODOT CB 2-5
604	2	EA	CATCH BASIN (COC-AA-S133A 3'X3')
604	1	EA	MANHOLE (AA-S102)
604	4	EA	NYLOPLAST DRAIN BASIN
659	3,226	SY	SEEDING AND MULCHING, CLASS 1
660	550	SY	SODDING
901	531	LF	12" STORM SEWER WITH TYPE 1 BEDDING
901	1,032	LF	24" STORM SEWER WITH TYPE 1 BEDDING
SPEC	4,585	CY	NO. 57 STONE
SPEC	168,971	SF	TURF INFILL (SYNTHETIC TURF, FINISH GRAVEL, DRAINAGE GRAVEL, UNDERDRAINS)

THE KLEINGERS GROUP
CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE
www.kleingers.com
350 Worthington Rd
Suite H
Westerville, OH 43082
614.882.4311

SEAL:
MICHAEL J. COUVREUR
E-70851

NO. DATE DESCRIPTION

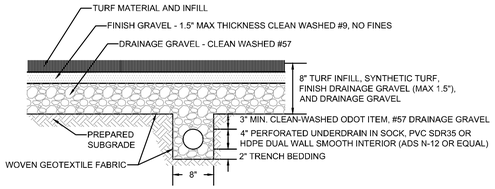
DUBLIN COFFMAN HIGH SCHOOL TURF FIELDS
6780 COFFMAN ROAD
CITY OF DUBLIN
DUBLIN, OH 43017

PROJECT NO: 240173.001
DATE: 10/28/2024
SCALE: NOT TO SCALE
SHEET NAME: GENERAL NOTES

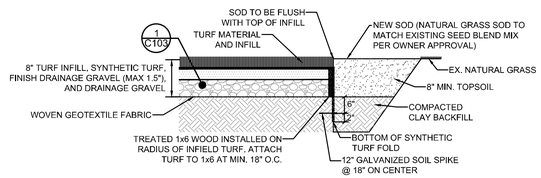
2/18

SHEET NO.
C102

INSPIRED PEOPLE ▲ CREATIVE DESIGN ▲ TRANSFORMING COMMUNITIES



1 C103 FIELD UNDERDRAIN DETAIL
N.T.S.



5 C103 SYNTHETIC TURF @ NATURAL GRASS INTERFACE
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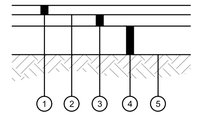
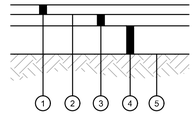


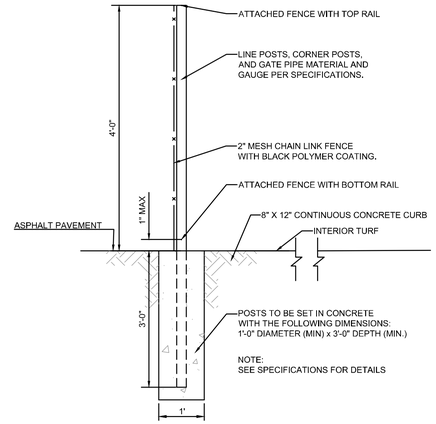
1. 1 1/2" CMSC ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
2. CMSC ITEM 407 TACK COAT, APPLY IF TIME BETWEEN ASPHALT LIFTS EXCEEDS 30 DAYS
3. 2" CMSC ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
4. 8" CMSC ITEM 304 AGGREGATE BASE
5. SUBGRADE COMPACTION, REFERENCE CMSC ITEM 204, EARTHWORK SPECIFICATION 312000 AND SOILS REPORT

9 C103 STANDARD DUTY ASPHALT PAVEMENT DETAIL
N.T.S.

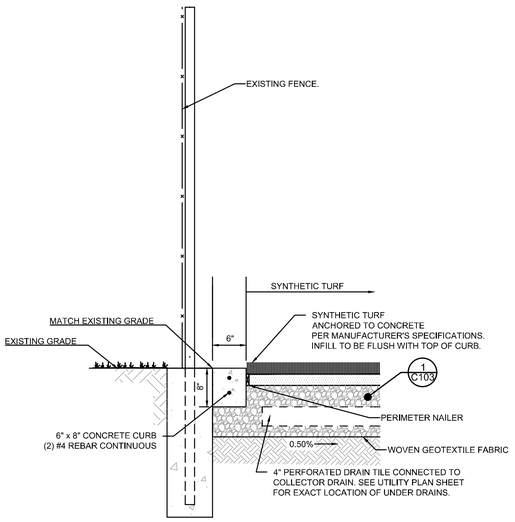


1. 1 1/2" CMSC ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
2. CMSC ITEM 407 TACK COAT, APPLY IF TIME BETWEEN ASPHALT LIFTS EXCEEDS 30 DAYS
3. 2" CMSC ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
4. 4" CMSC ITEM 304 AGGREGATE BASE
5. SUBGRADE COMPACTION, REFERENCE CMSC ITEM 204, EARTHWORK SPECIFICATION 312000 AND SOILS REPORT

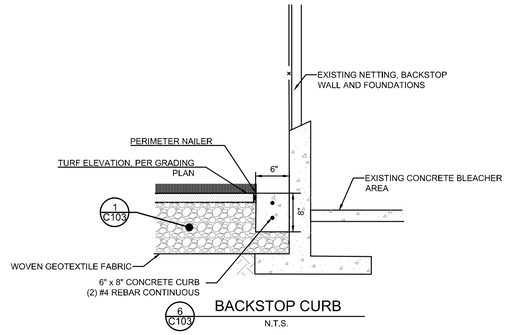
10 C103 LIGHT DUTY ASPHALT PAVEMENT DETAIL
N.T.S.



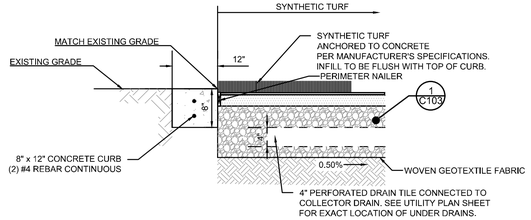
13 C103 4' VINYL COATED CHAIN LINK FENCE SET IN 1' CURB
N.T.S.



2 C103 SYNTHETIC TURF CURB & UNDERDRAIN AT EXISTING FENCE DETAIL
N.T.S.



6 C103 BACKSTOP CURB
N.T.S.



7 C103 SYNTHETIC TURF CURB & UNDERDRAIN DETAIL
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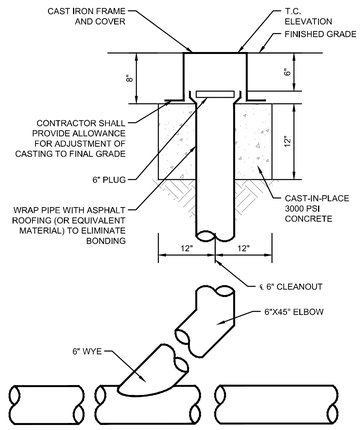

11 C103 CLEANOUT DETAIL
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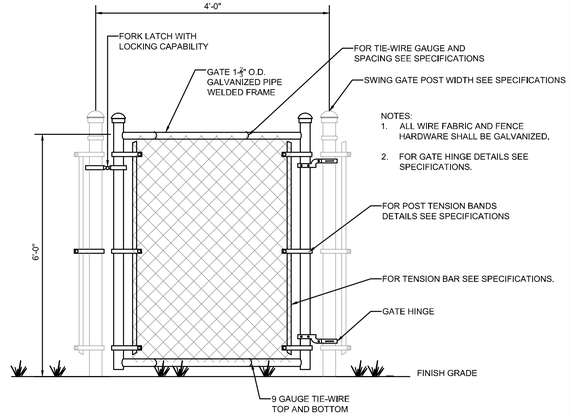

14 C103 VINYL COATED CHAIN LINK FENCE GATE DETAIL
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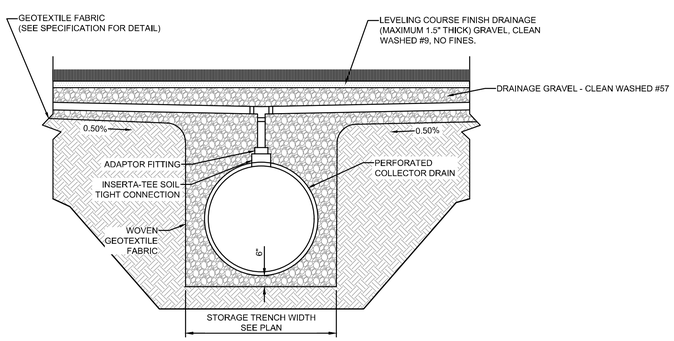
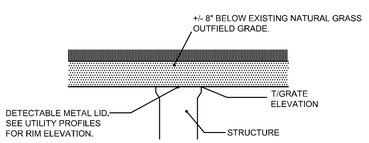


3 C103 SYNTHETIC TURF COLLECTOR PIPE
N.T.S.



4 C103 CLEANOUT SETTING WITHIN FIELD LIMITS
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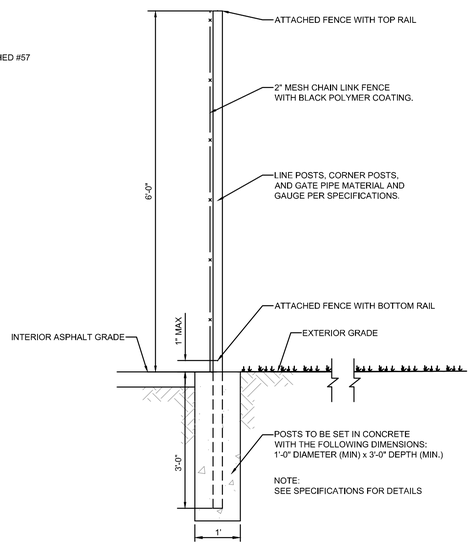
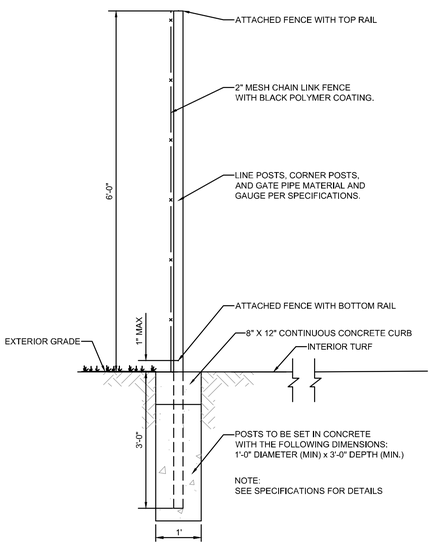
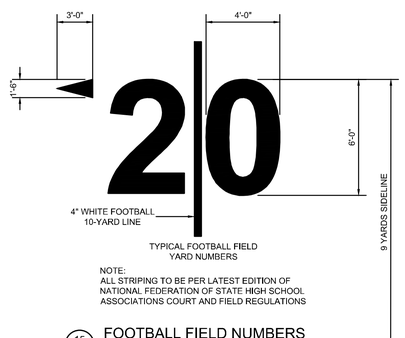


8 C103 6' VINYL COATED CHAIN LINK FENCE
N.T.S.



12 C103 6' VINYL COATED CHAIN LINK FENCE SET IN 1' CURB
N.T.S.



TYPICAL FOOTBALL FIELD YARD NUMBERS

NOTE:
ALL STRIPING TO BE PER LATEST EDITION OF NATIONAL FEDERATION OF STATE HIGH SCHOOL ASSOCIATIONS COURT AND FIELD REGULATIONS

15 C103 FOOTBALL FIELD NUMBERS
N.T.S.

THE KLEINGERS GROUP
CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE
www.kleingers.com
350 Worthington Rd
Suite H
Westerville, OH 43082
614.882.4311

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SEAL:

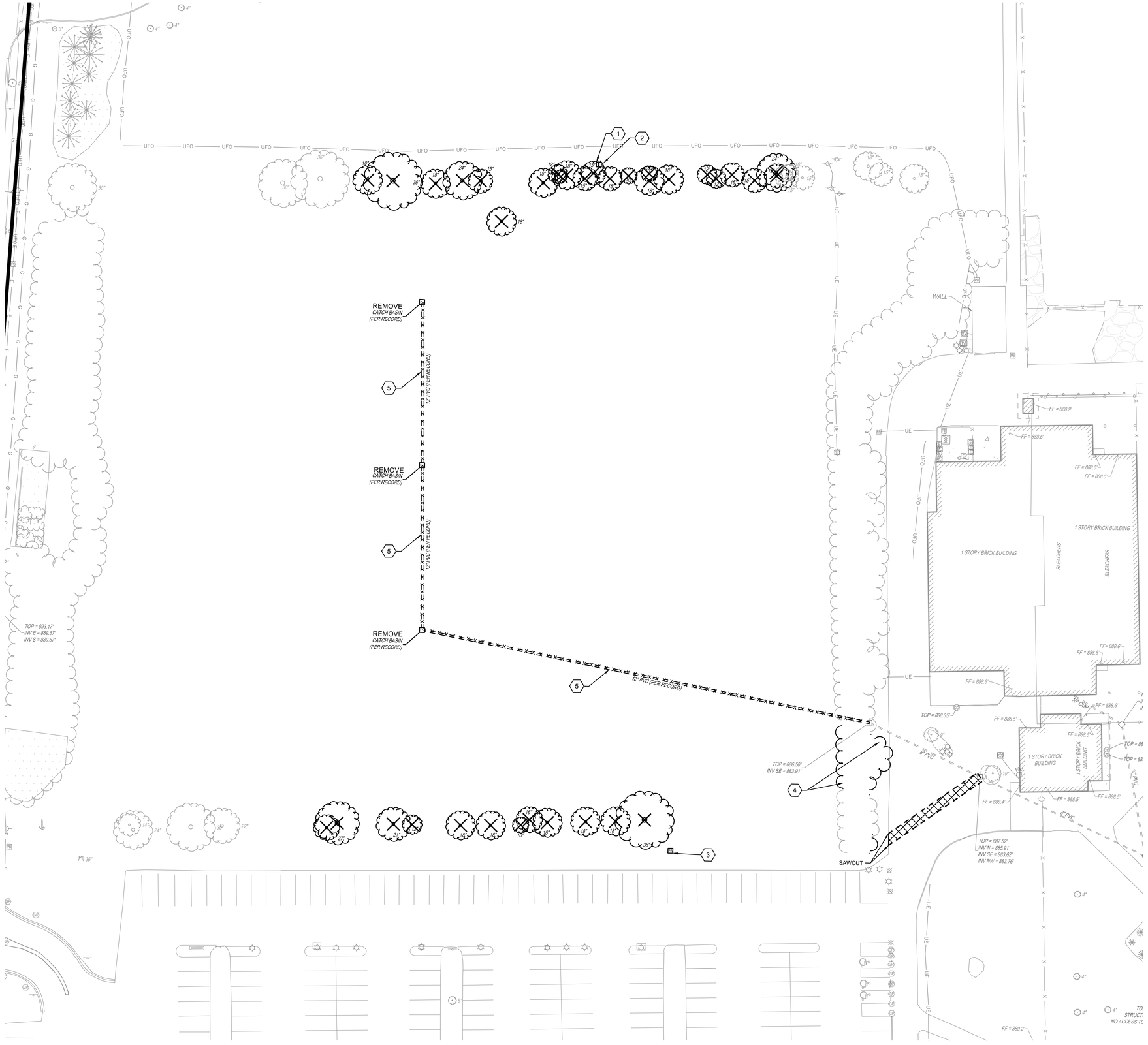
STATE OF OHIO
MICHAEL J. COUVREUR
E-70851
REGISTERED
PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION

DUBLIN COFFMAN HIGH SCHOOL TURF FIELDS
6780 COFFMAN ROAD
CITY OF DUBLIN
DUBLIN, OH 43017

PROJECT NO:	240173.001
DATE:	10/28/2024
SCALE:	NOT TO SCALE
SHEET NAME:	TYPICAL DETAILS
	3/18
SHEET NO.	C103

INSPIRED PEOPLE ▲ CREATIVE DESIGN ▲ TRANSFORMING COMMUNITIES



DEMOLITION LEGEND

- REMOVE EXISTING TREE
- REMOVE EXISTING ASPHALT
- SAWCUT
- x x x x x x x REMOVE UTILITY

CODED NOTES

1. REMOVE ELECTRIC BOX
2. REMOVE EXISTING LAMP POLE
3. REMOVE EXISTING PULL BOX
4. REMOVE TREELINE
5. REMOVE EXISTING STORM SEWER (PER RECORD)

NOTES

1. REMOVE IRRIGATION LINES AND HEADS WITHIN PROPOSED FIELD LIMITS. ANY ZONES NOT COMPLETELY REMOVED SHALL BE RECONNECTED OUTSIDE OF THE PROPOSED FIELD AREA. CAP AND PLUG IRRIGATION ZONES THAT HAVE BEEN REMOVED AT THE VALVE CONTROL BOX. ANY VALVE CONTROL BOXES WITHIN THE PROPOSED FIELD LIMITS SHALL BE RELOCATED TO OUTSIDE THE SYNTHETIC TURF.

THE KLEINGERS GROUP

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SEAL:

STATE OF OHIO
MICHAEL J COUVREUR
E-70851
REGISTERED
PROFESSIONAL ENGINEER

NO. DATE DESCRIPTION

DUBLIN COFFMAN HIGH SCHOOL TURF FIELDS

6780 COFFMAN ROAD
CITY OF DUBLIN
DUBLIN, OH 43017

PROJECT NO: 240173.001
DATE: 10/28/2024
SCALE: 0 15 30 60

SHEET NAME:
MULTIPURPOSE FIELD DEMOLITION PLAN
4/18

SHEET NO.
C104

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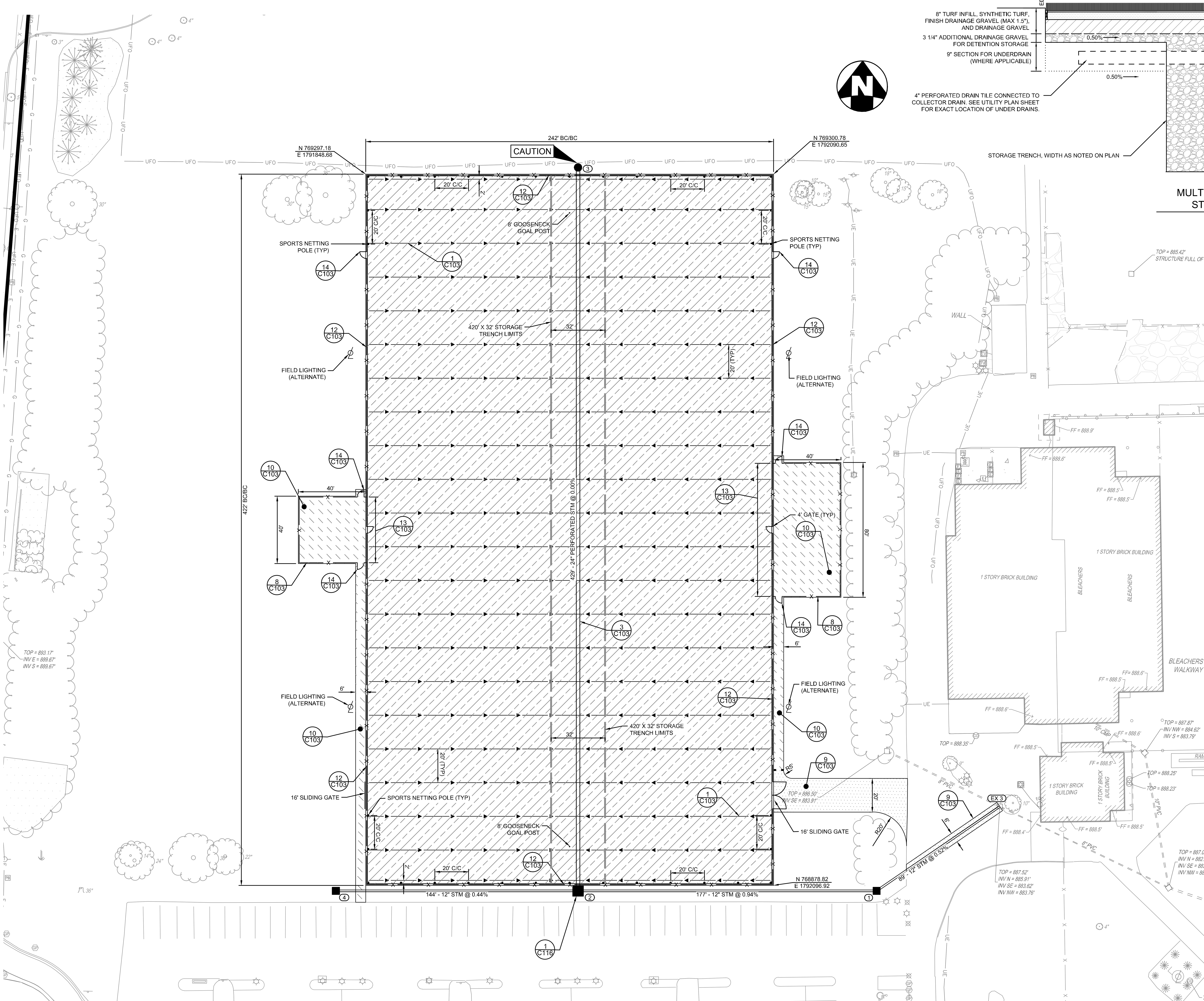

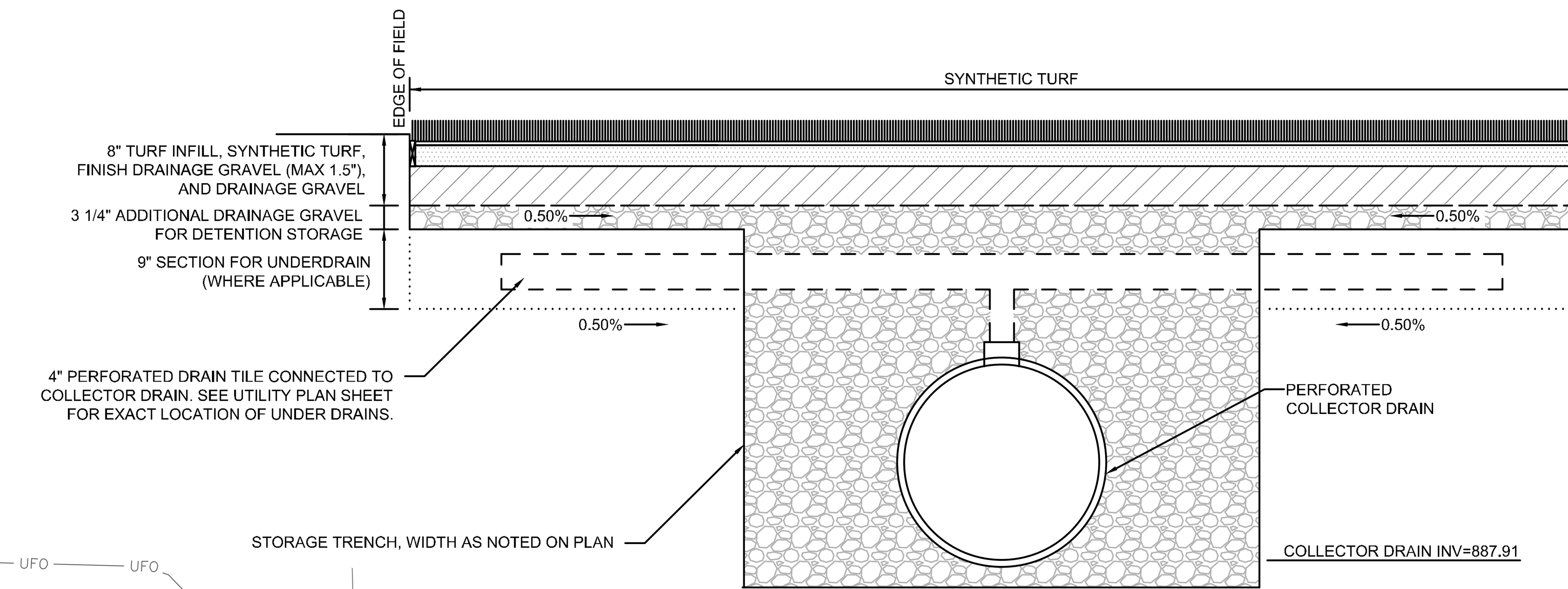

MULTIPURPOSE FIELD DETENTION STORAGE TYPICAL SECTION

N.T.S.

PROPOSED LEGEND

- STM — STORM SEWER PIPE
- STORM UNDERDRAIN
- (100) CATCH BASIN
- (100) MANHOLE
- X — FENCING
- SYNTHETIC TURF
- STANDARD DUTY ASPHALT PAVEMENT, SEE DETAIL 9, SHEET C103
- LIGHT DUTY ASPHALT PAVEMENT, SEE DETAIL 10, SHEET C103

MULTIPURPOSE FIELD DETENTION VOLUME CALCULATIONS

STORM EVENT	VOLUME REQ'D (CF)	PONDING ELEV	DISCHARGE (CFS)
1 YEAR	8,576	889.63	0.32
2 YEAR	9,868	889.89	0.93
5 YEAR	12,663	890.14	1.68
10 YEAR	15,295	890.26	2.06
25 YEAR	19,107	890.39	2.48
50 YEAR	22,319	890.48	2.79
100 YEAR	25,708	890.58	3.10
TOTAL STORAGE VOLUME PROVIDED = 30,142 CF			

*STONE STORAGE VOID SPACE CALCULATED AT 35%

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PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION

DUBLIN COFFMAN HIGH SCHOOL TURF FIELDS

6780 COFFMAN ROAD
CITY OF DUBLIN
DUBLIN, OH 43017

PROJECT NO: 240173.001

DATE: 10/28/2024

SCALE: 0 15 30 60

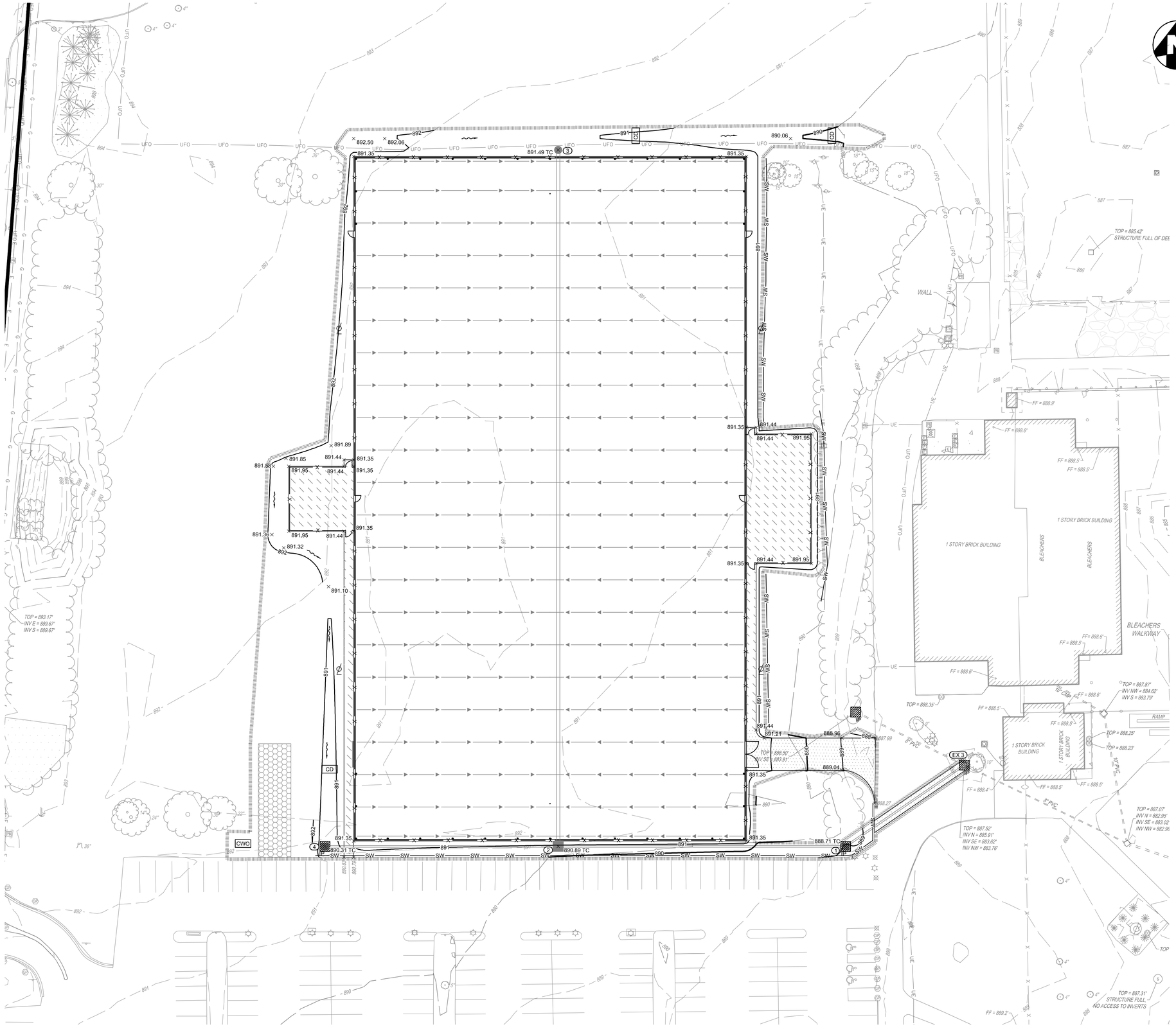
SHEET NAME:

MULTIPURPOSE FIELD UTILITY PLAN

SHEET NO.

C105

INSPIRED PEOPLE ▲ CREATIVE DESIGN ▲ TRANSFORMING COMMUNITIES



GRADING LEGEND

- 1215 — EXISTING MAJOR CONTOUR
- 1216 — EXISTING MINOR CONTOUR
- 1215 — PROPOSED MAJOR CONTOUR
- 1216 — PROPOSED MINOR CONTOUR
- × 1215.00 PROPOSED SPOT ELEVATION
- PROPOSED SWALE

PROPOSED EROSION CONTROL LEGEND

- IP — DANDY SACK INLET PROTECTION
- SW — STRAW WATTLE
- CD — COMPOST SOCK CHECK DAM
- CWO — CONCRETE WASHOUT
- TEMPORARY CONSTRUCTION ENTRANCE PER COC STD DWG 2230
- LIMITS OF DISTURBANCE

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MICHAEL J COUVREUR
E-70851
REGISTERED
PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION

DUBLIN COFFMAN HIGH SCHOOL TURF FIELDS

6780 COFFMAN ROAD
CITY OF DUBLIN
DUBLIN, OH 43017

PROJECT NO:	240173.001
DATE:	10/28/2024
SCALE:	0 15 30 60

SHEET NAME:
MULTIPURPOSE FIELD GRADING PLAN 6/18

SHEET NO.
C106

INSPIRED PEOPLE ▲ CREATIVE DESIGN ▲ TRANSFORMING COMMUNITIES

SPORT COLORS:

FOOTBALL
COLOR NAME: WHITE
PANTONE COLOR: WHITE

SOCCER
COLOR NAME: BLACK
PANTONE COLOR: BLACK

BOY'S LACROSSE
COLOR NAME: VEGAS GOLD
PANTONE COLOR: 466

GIRL'S LACROSSE
COLOR NAME: TAN
PANTONE COLOR: 728

FIELD HOCKEY
COLOR NAME: GREY
PANTONE COLOR: COOL GREY

LOGO COLORS:

COLOR NAME: WHITE
PANTONE COLOR: WHITE

COLOR NAME: BLACK
PANTONE COLOR: BLACK

LEGEND:

TURF
COLOR NAME: FIELD GREEN
PANTONE COLOR: 575
100,800 SQ. FT.

STRIPING PLAN GENERAL NOTES:

1. FOOTBALL MARKINGS ARE 4" WHITE NFHS STANDARDS.
2. FOOTBALL SIDELINE AND ENDLINE MARKINGS ARE 12" WHITE NFHS STANDARDS.
3. SOCCER MARKINGS ARE 4" BLACK NFHS STANDARDS.
4. BOY'S LACROSSE MARKINGS ARE 4" TAN NFHS STANDARDS.
5. GIRL'S LACROSSE MARKINGS ARE 4" VEGAS GOLD NFHS STANDARDS.
6. FIELD HOCKEY MARKINGS ARE 4" GREY NFHS STANDARDS.

FIELD DOMINANCY IS ONLY WITHIN THE FOOTBALL FIELD OF PLAY.

ALL DIMENSIONS TO BE VERIFIED BEFORE ANY CONSTRUCTION BEGINS.

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MICHAEL J COUVREUR
E-70851
REGISTERED PROFESSIONAL ENGINEER

NO. DATE DESCRIPTION

DUBLIN COFFMAN HIGH SCHOOL TURF FIELDS

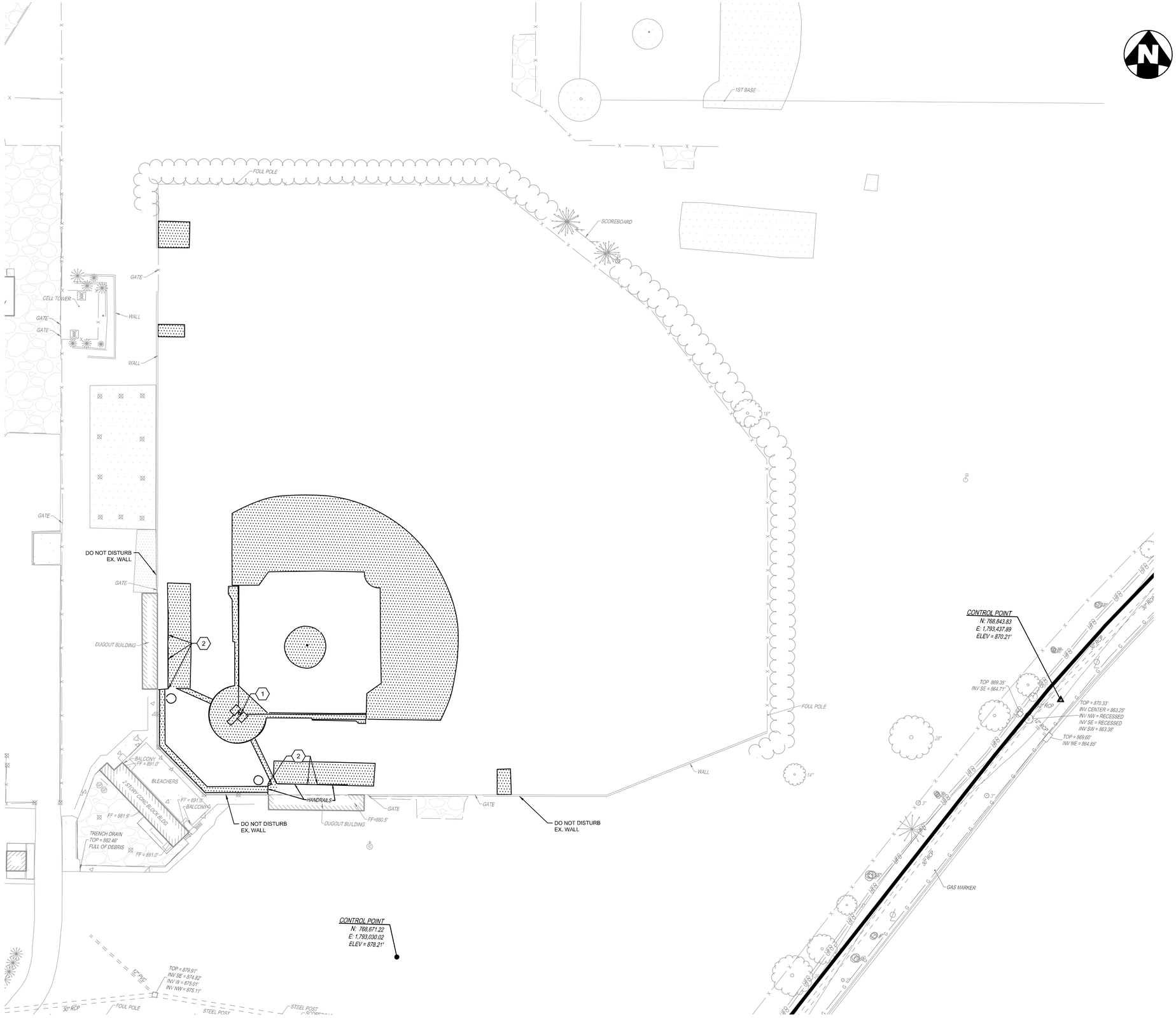
6780 COFFMAN ROAD
CITY OF DUBLIN
DUBLIN, OH 43017

PROJECT NO: 240173.001
DATE: 10/28/2024
SCALE: 0 10 20 40

SHEET NAME:
MULTIPURPOSE FIELD STRIPING PLAN 7/18

SHEET NO.
C107

INSPIRED PEOPLE ▲ CREATIVE DESIGN ▲ TRANSFORMING COMMUNITIES



DEMOLITION LEGEND

REMOVE DIRT INFIELD/SYNTHETIC TURF

CODED NOTES

1. REMOVE HOMEPLATE
2. REMOVE DUGOUT FENCING

NOTES

1. REMOVE IRRIGATION LINES AND HEADS WITHIN PROPOSED FIELD LIMITS. ANY ZONES NOT COMPLETELY REMOVED SHALL BE RECONNECTED OUTSIDE OF THE PROPOSED FIELD AREA. CAP AND PLUG IRRIGATION ZONES THAT HAVE BEEN REMOVED AT THE VALVE CONTROL BOX. ANY VALVE CONTROL BOXES WITHIN THE PROPOSED FIELD LIMITS SHALL BE RELOCATED TO OUTSIDE THE SYNTHETIC TURF.

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NO.	DATE	DESCRIPTION

DUBLIN COFFMAN HIGH SCHOOL TURF FIELDS

6780 COFFMAN ROAD
CITY OF DUBLIN
DUBLIN, OH 43017

PROJECT NO:	240173.001
DATE:	10/28/2024
SCALE:	0 15 30 60

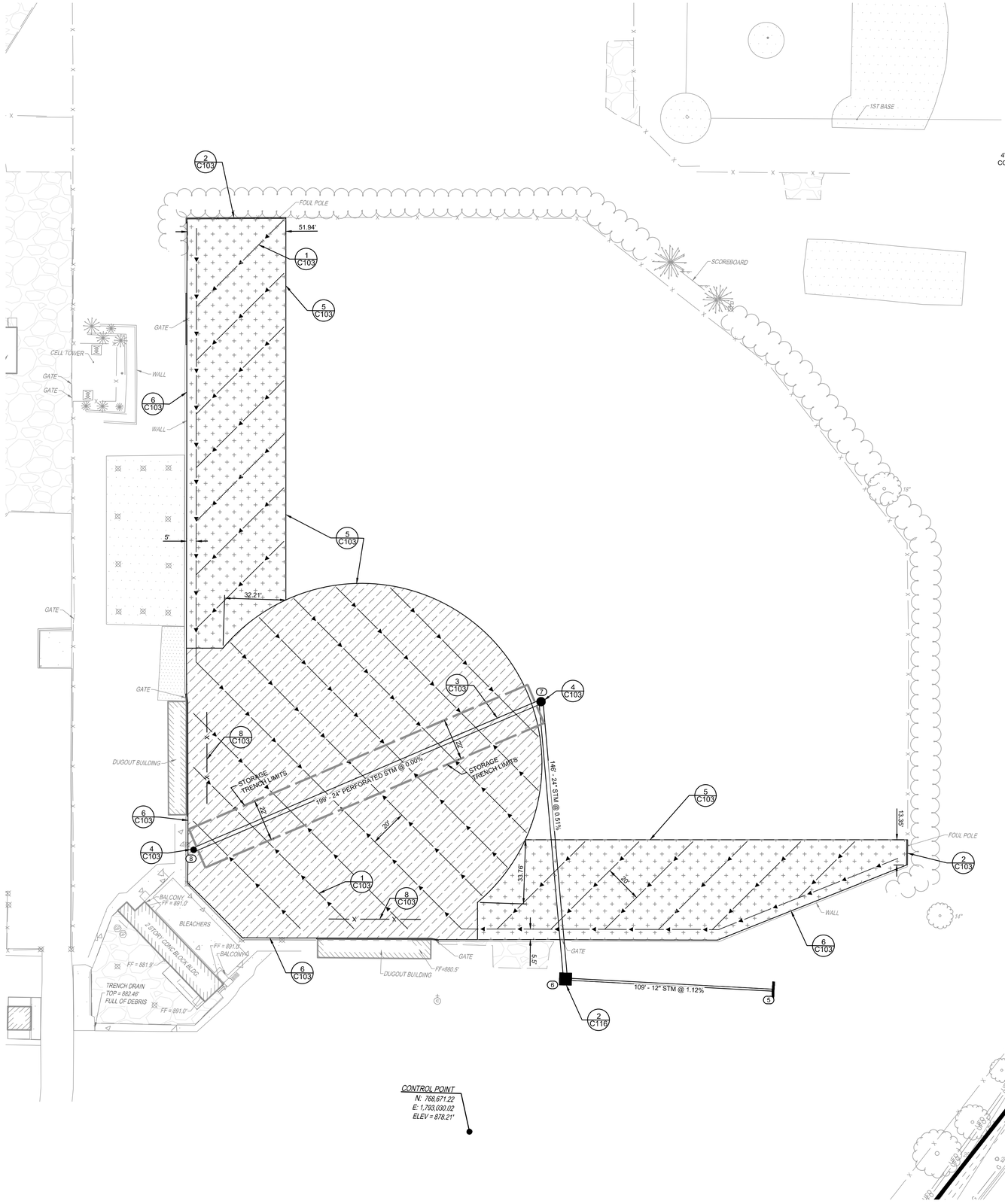
SHEET NAME:

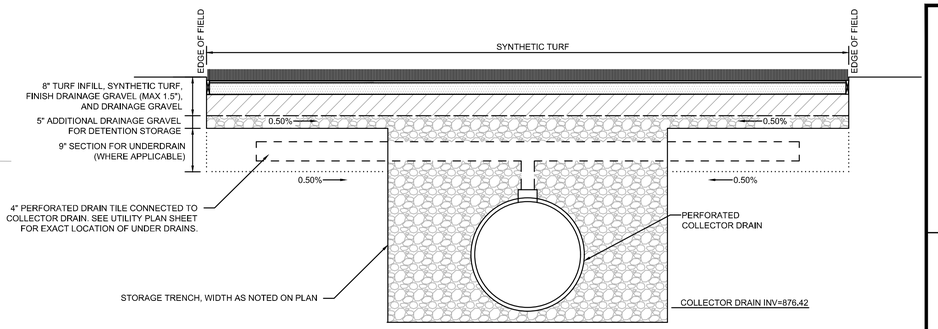
VARSITY BASEBALL FIELD DEMOLITION PLAN 8/18

SHEET NO.

C108

INSPIRED PEOPLE ▲ CREATIVE DESIGN ▲ TRANSFORMING COMMUNITIES





BASEBALL FIELD DETENTION STORAGE
TYPICAL SECTION
N.T.S.

BASEBALL FIELD DETENTION VOLUME CALCULATIONS			
STORM EVENT	VOLUME REQ'D (CF)	PONDING ELEV	DISCHARGE (CFS)
1 YEAR	3,953	878.46	0.18
2 YEAR	4,465	878.62	0.49
5 YEAR	5,561	878.80	1.04
10 YEAR	6,502	878.91	1.42
25 YEAR	7,811	879.03	1.89
50 YEAR	8,865	879.13	2.26
100 YEAR	9,948	879.24	2.61
TOTAL STORAGE VOLUME PROVIDED = 10,995 CF			

*STONE STORAGE VOID SPACE CALCULATED AT 35%

PROPOSED LEGEND

- STM — STORM SEWER PIPE
- STORM UNDERDRAIN
- 100 — CATCH BASIN
- 100 — MANHOLE
- 100 — YARD DRAIN
- 100 — HEADWALL
- SYNTHETIC TURF
- SYNTHETIC TURF ALTERNATE LIMITS

NOTES:

1. PROVIDE PROTECTIVE PADDING ON DUGOUT FENCING POSTS AND RAILS.

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NO.	DATE	DESCRIPTION

DUBLIN COFFMAN HIGH SCHOOL TURF FIELDS

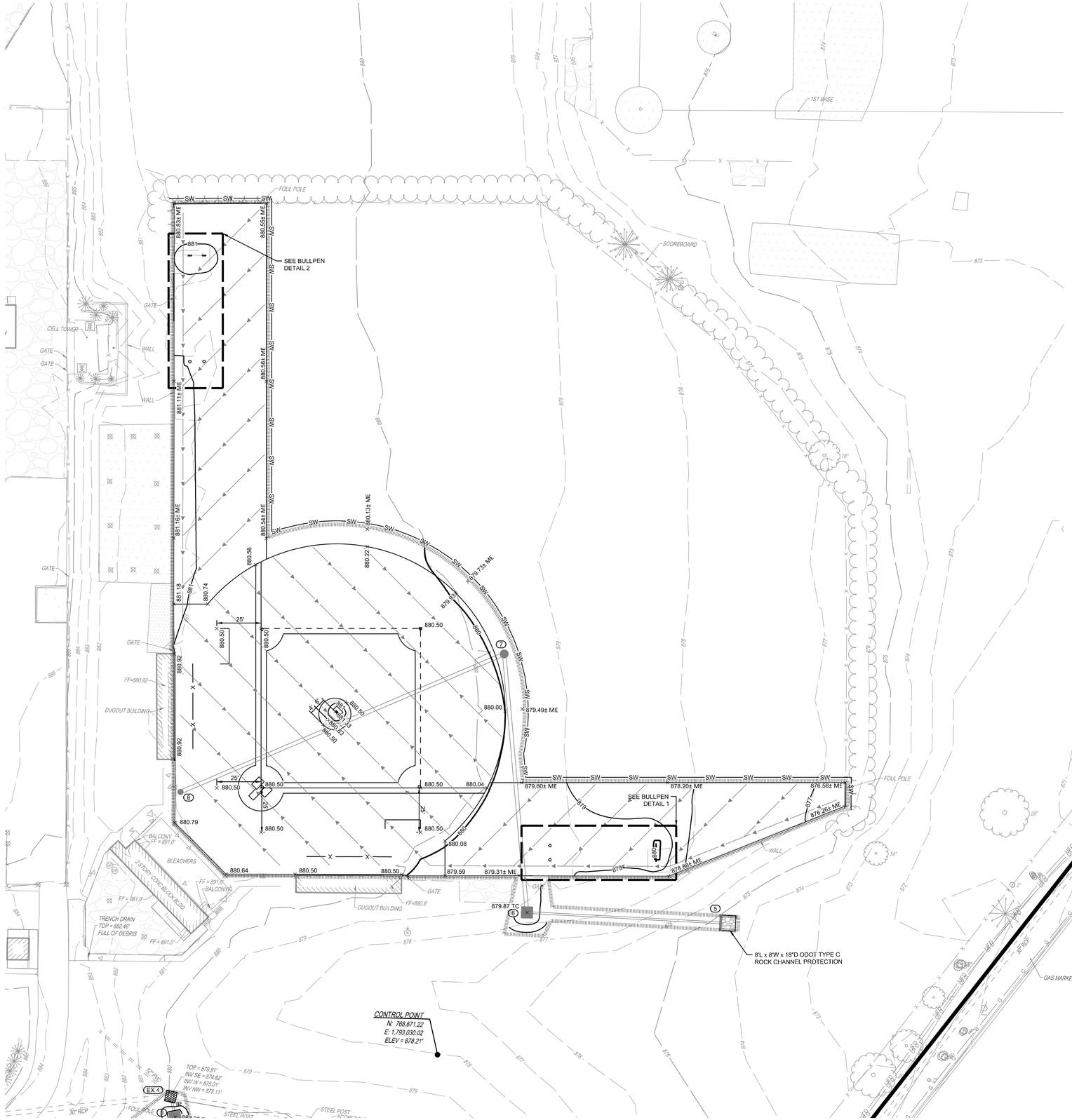
6780 COFFMAN ROAD
CITY OF DUBLIN
DUBLIN, OH 43017

PROJECT NO: 240173.001
DATE: 10/28/2024
SCALE: 0 15 30 60

SHEET NAME:
VARSITY BASEBALL FIELD UTILITY PLAN 9/18

SHEET NO.
C109

INSPIRED PEOPLE ▲ CREATIVE DESIGN ▲ TRANSFORMING COMMUNITIES

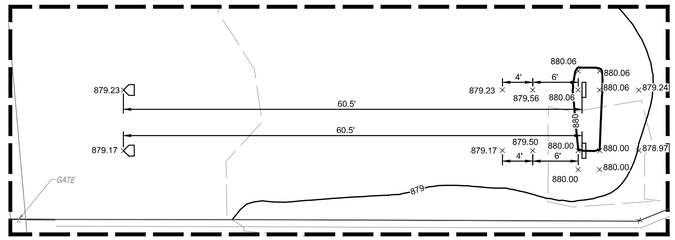


GRADING LEGEND

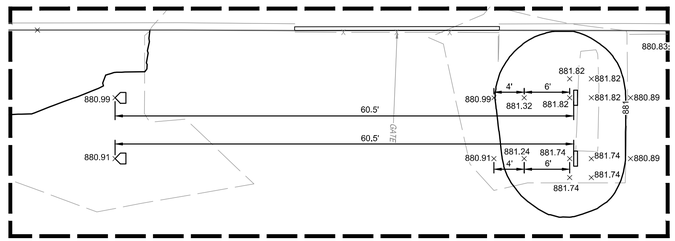
- 1215 — EXISTING MAJOR CONTOUR
- 1216 — EXISTING MINOR CONTOUR
- 1215 — PROPOSED MAJOR CONTOUR
- 1216 — PROPOSED MINOR CONTOUR
- × 1215.00 PROPOSED SPOT ELEVATION

PROPOSED EROSION CONTROL LEGEND

- IP — DANDY SACK INLET PROTECTION
- SW — STRAW WATTLE
- LIMITS OF DISTURBANCE



BULLPEN DETAIL 1
SCALE: 1"=10'



BULLPEN DETAIL 2
SCALE: 1"=10'

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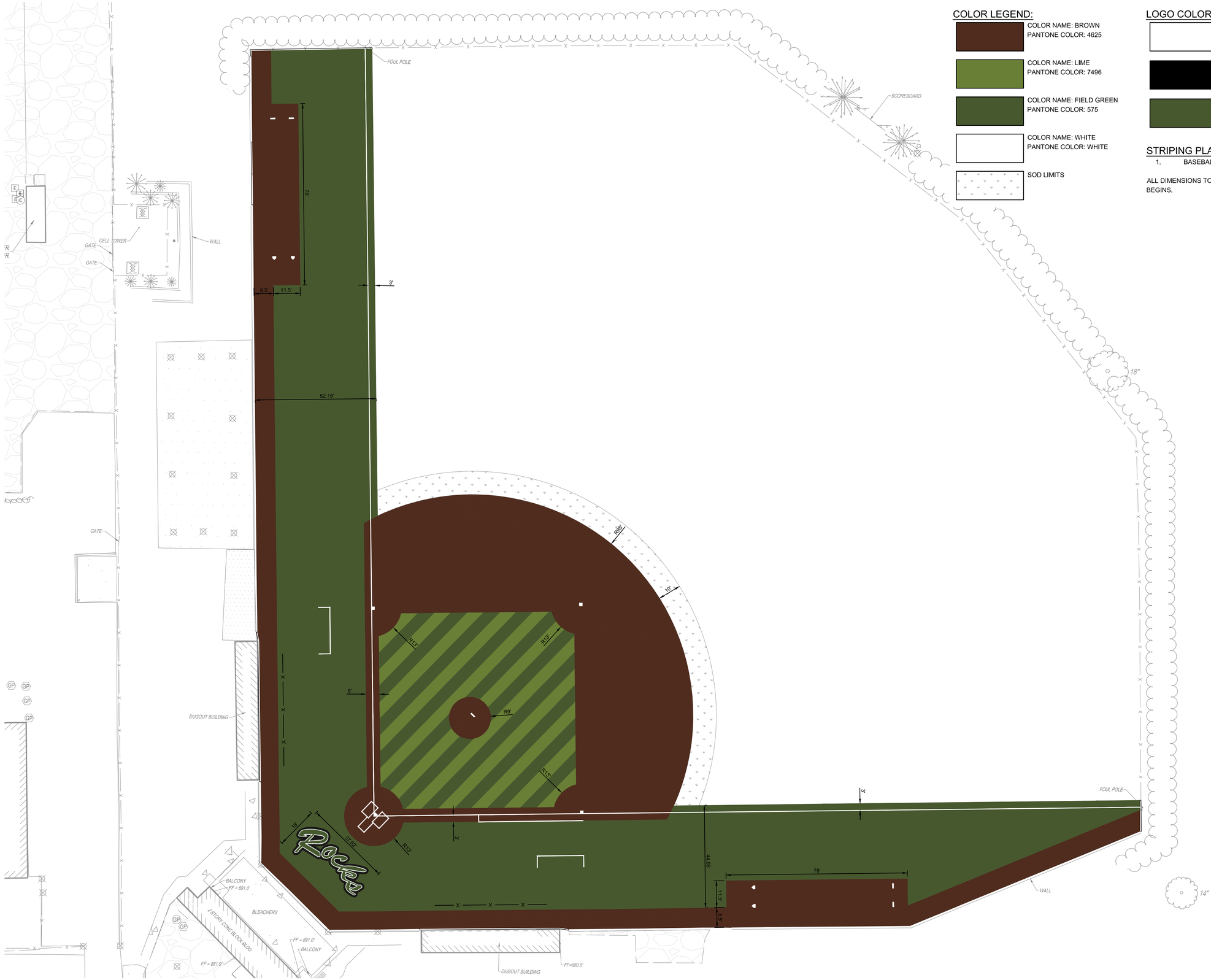
NO.	DATE	DESCRIPTION

DUBLIN COFFMAN HIGH SCHOOL TURF FIELDS

6780 COFFMAN ROAD
CITY OF DUBLIN
DUBLIN, OH 43017

PROJECT NO:	240173.001
DATE:	10/28/2024
SCALE:	0 15 30 60
SHEET NAME:	VARSITY BASEBALL FIELD GRADING PLAN 10/18
SHEET NO.	C110

INSPIRED PEOPLE ▲ CREATIVE DESIGN ▲ TRANSFORMING COMMUNITIES



COLOR LEGEND:

- COLOR NAME: BROWN
  PANTONE COLOR: 4625
- COLOR NAME: LIME
  PANTONE COLOR: 7496
- COLOR NAME: FIELD GREEN
  PANTONE COLOR: 575
- COLOR NAME: WHITE
  PANTONE COLOR: WHITE
- SOD LIMITS

LOGO COLORS:

- COLOR NAME: WHITE
  PANTONE COLOR: WHITE
- COLOR NAME: BLACK
  PANTONE COLOR: BLACK
- COLOR NAME: FIELD GREEN
  PANTONE COLOR: 575

STRIPING PLAN GENERAL NOTES:

1. BASEBALL MARKINGS ARE 2-1/2" WHITE NFHS STANDARDS.

ALL DIMENSIONS TO BE VERIFIED BEFORE ANY CONSTRUCTION BEGINS.

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NO.	DATE	DESCRIPTION

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6780 COFFMAN ROAD
CITY OF DUBLIN
DUBLIN, OH 43017

PROJECT NO:	240173.001
DATE:	10/28/2024
SCALE:	0 10 20 40

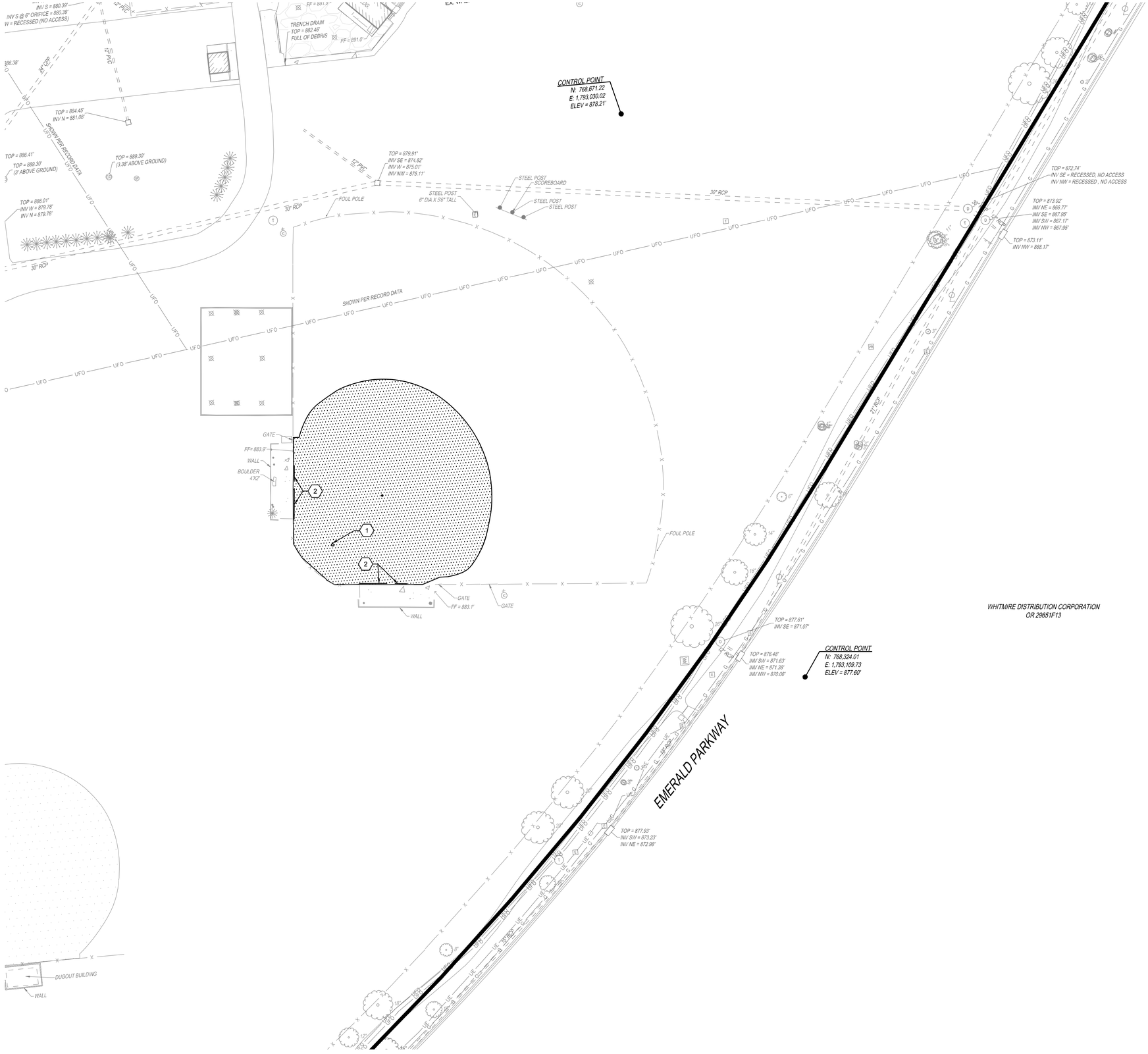
SHEET NAME:

VARSITY BASEBALL FIELD STRIPING PLAN 11/18

SHEET NO.

C111

INSPIRED PEOPLE ▲ CREATIVE DESIGN ▲ TRANSFORMING COMMUNITIES



DEMOLITION LEGEND

REMOVE DIRT INFIELD/SYNTHETIC TURF

CODED NOTES

1. REMOVE HOMEPLATE
2. REMOVE DUGOUT FENCING

NOTES

1. REMOVE IRRIGATION LINES AND HEADS WITHIN PROPOSED FIELD LIMITS. ANY ZONES NOT COMPLETELY REMOVED SHALL BE RECONNECTED OUTSIDE OF THE PROPOSED FIELD AREA. CAP AND PLUG IRRIGATION ZONES THAT HAVE BEEN REMOVED AT THE VALVE CONTROL BOX. ANY VALVE CONTROL BOXES WITHIN THE PROPOSED FIELD LIMITS SHALL BE RELOCATED TO OUTSIDE THE SYNTHETIC TURF.

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NO.	DATE	DESCRIPTION

DUBLIN COFFMAN HIGH SCHOOL TURF FIELDS

6780 COFFMAN ROAD
CITY OF DUBLIN
DUBLIN, OH 43017

PROJECT NO:	240173.001
DATE:	10/28/2024
SCALE:	0 15 30 60

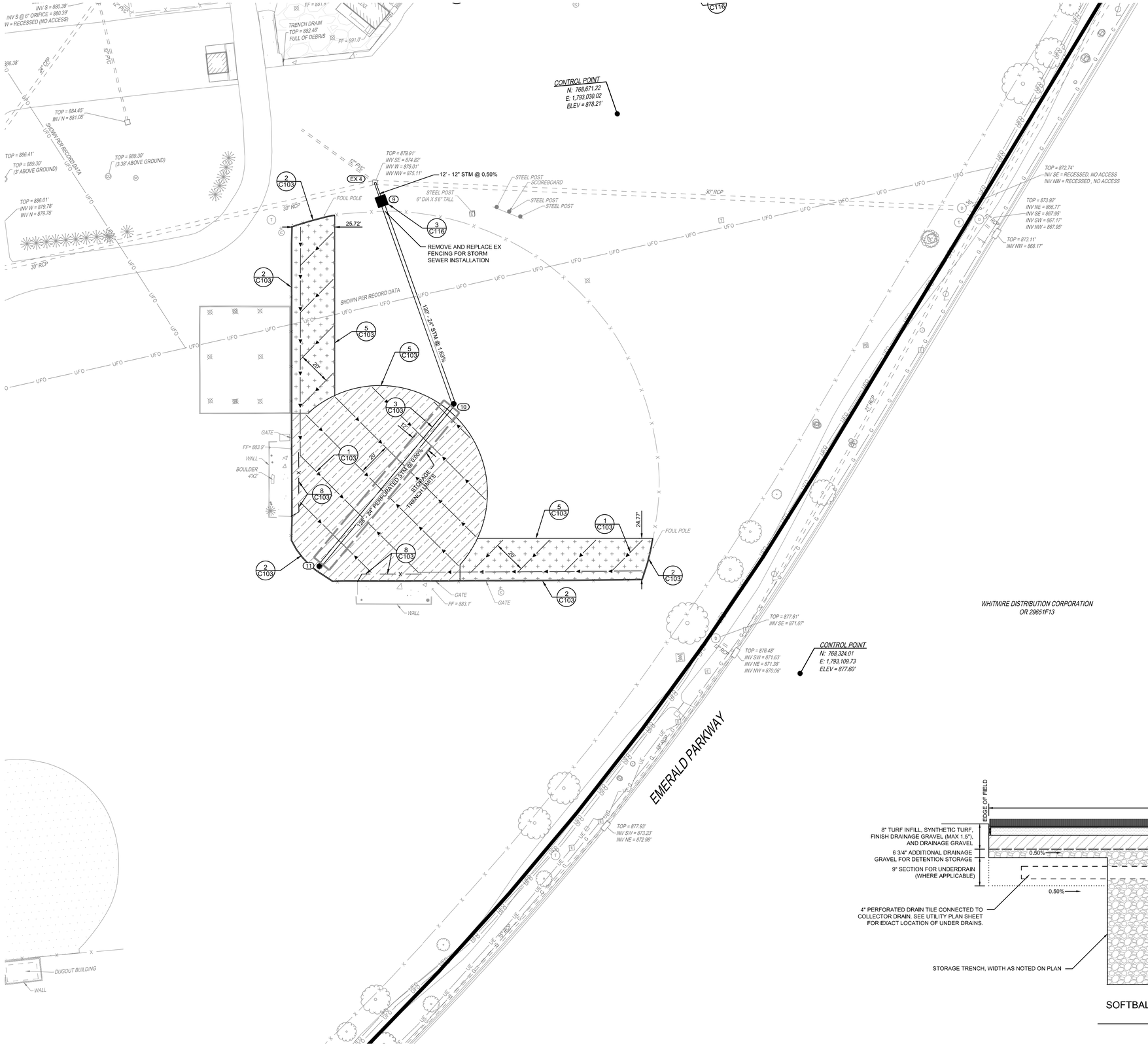
SHEET NAME:

VARSITY SOFTBALL FIELD DEMOLITION PLAN 12/18

SHEET NO.

C112

INSPIRED PEOPLE ▲ CREATIVE DESIGN ▲ TRANSFORMING COMMUNITIES



PROPOSED LEGEND

- STM — STORM SEWER PIPE
- STORM UNDERDRAIN
- 100 — CATCH BASIN
- 100 — MANHOLE
- 100 — STORM SEWER CLEANOUT
- SYNTHETIC TURF
- SYNTHETIC TURF ALTERNATE LIMITS

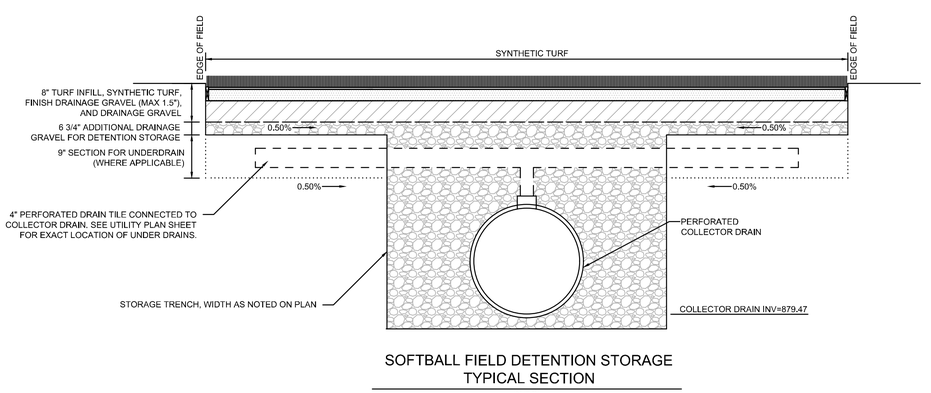
NOTES:

1. PROVIDE PROTECTIVE PADDING ON DUGOUT FENCING POSTS AND RAILS.

SOFTBALL FIELD DETENTION VOLUME CALCULATIONS

STORM EVENT	VOLUME REQ'D (CF)	PONDING ELEV	DISCHARGE (CFS)
1 YEAR	1,629	881.40	0.03
2 YEAR	1,721	881.54	0.12
5 YEAR	2,062	881.71	0.29
10 YEAR	2,431	881.80	0.36
25 YEAR	2,965	881.93	0.43
50 YEAR	3,410	882.04	0.48
100 YEAR	3,877	882.15	0.53
TOTAL STORAGE VOLUME PROVIDED = 4,640 CF			

*STONE STORAGE VOID SPACE CALCULATED AT 35%



SOFTBALL FIELD DETENTION STORAGE
TYPICAL SECTION
N.T.S.

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SEAL:

STATE OF OHIO
MICHAEL J COUVREUR E-70851 REGISTERED
PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION

DUBLIN COFFMAN HIGH SCHOOL TURF FIELDS

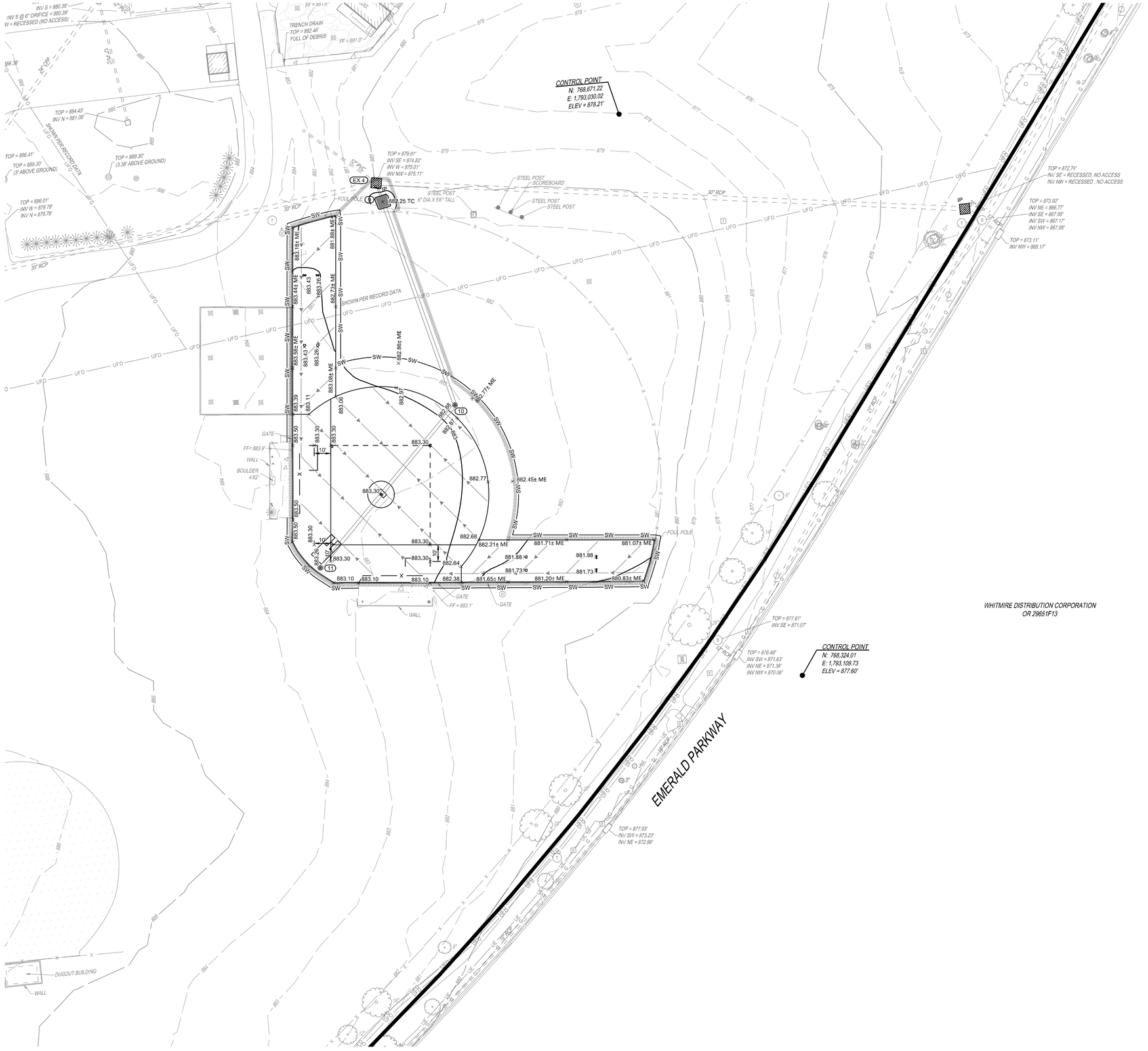
6780 COFFMAN ROAD
CITY OF DUBLIN
DUBLIN, OH 43017

PROJECT NO: 240173.001
DATE: 10/28/2024
SCALE: 0 15 30 60

SHEET NAME:
VARSITY SOFTBALL FIELD UTILITY PLAN 13/18

SHEET NO.
C113

INSPIRED PEOPLE ▲ CREATIVE DESIGN ▲ TRANSFORMING COMMUNITIES



WHITMIRE DISTRIBUTION CORPORATION
OR 29651F13

GRADING LEGEND

- 1215 — EXISTING MAJOR CONTOUR
- 1216 — EXISTING MINOR CONTOUR
- 1215 — PROPOSED MAJOR CONTOUR
- 1216 — PROPOSED MINOR CONTOUR
- × 1215.00 PROPOSED SPOT ELEVATION

PROPOSED EROSION CONTROL LEGEND

- IP DANDY SACK INLET PROTECTION
- SW STRAW WATTLE
- LIMITS OF DISTURBANCE

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MICHAEL J COUVREUR E-70851
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION

DUBLIN COFFMAN HIGH SCHOOL TURF FIELDS

6780 COFFMAN ROAD
CITY OF DUBLIN
DUBLIN, OH 43017

PROJECT NO:	240173.001
DATE:	10/28/2024
SCALE:	0 15 30 60

SHEET NAME:

VARSITY SOFTBALL FIELD GRADING PLAN 14/18

SHEET NO.

C114

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INSPIRED PEOPLE ▲ CREATIVE DESIGN ▲ TRANSFORMING COMMUNITIES

COLOR LEGEND:

COLOR NAME: BROWN
PANTONE COLOR: 4625

COLOR NAME: FIELD GREEN
PANTONE COLOR: 575

COLOR NAME: WHITE
PANTONE COLOR: WHITE

SOD LIMITS

LOGO COLORS:

COLOR NAME: WHITE
PANTONE COLOR: WHITE

COLOR NAME: BLACK
PANTONE COLOR: BLACK

COLOR NAME: FIELD GREEN
PANTONE COLOR: 575

STRIPING PLAN GENERAL NOTES:

1. SOFTBALL MARKINGS ARE 2-1/2" WHITE NFHS STANDARDS.

ALL DIMENSIONS TO BE VERIFIED BEFORE ANY CONSTRUCTION BEGINS.

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NO.	DATE	DESCRIPTION

DUBLIN COFFMAN HIGH SCHOOL TURF FIELDS

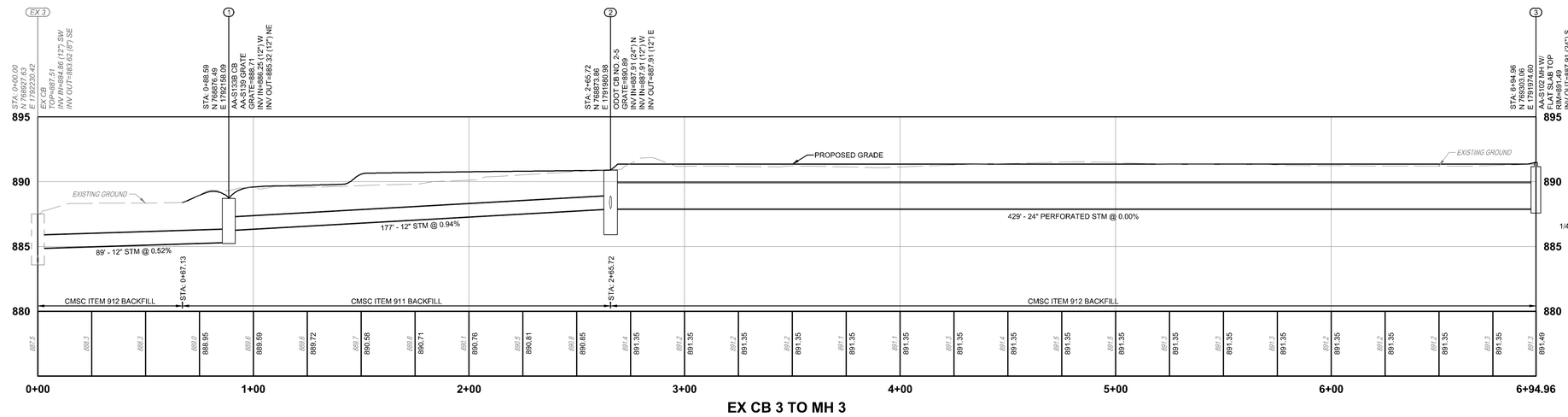
6780 COFFMAN ROAD
CITY OF DUBLIN
DUBLIN, OH 43017

PROJECT NO: 240173.001
DATE: 10/28/2024
SCALE: 0 10 20 40

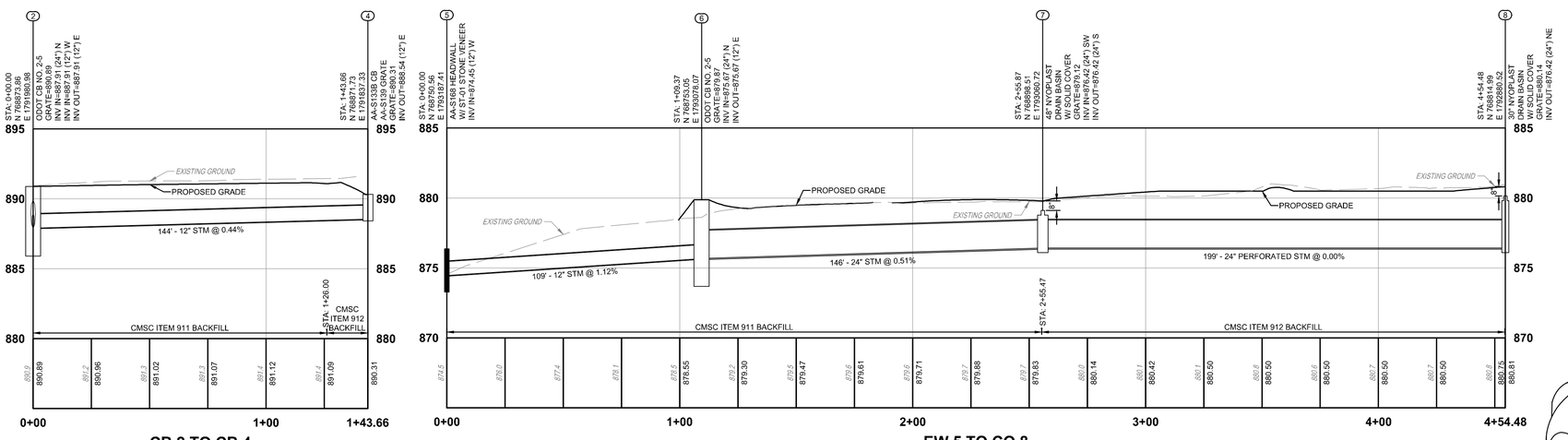
SHEET NAME:
VARSITY SOFTBALL FIELD STRIPING PLAN 15/18

SHEET NO.
C115

INSPIRED PEOPLE ▲ CREATIVE DESIGN ▲ TRANSFORMING COMMUNITIES

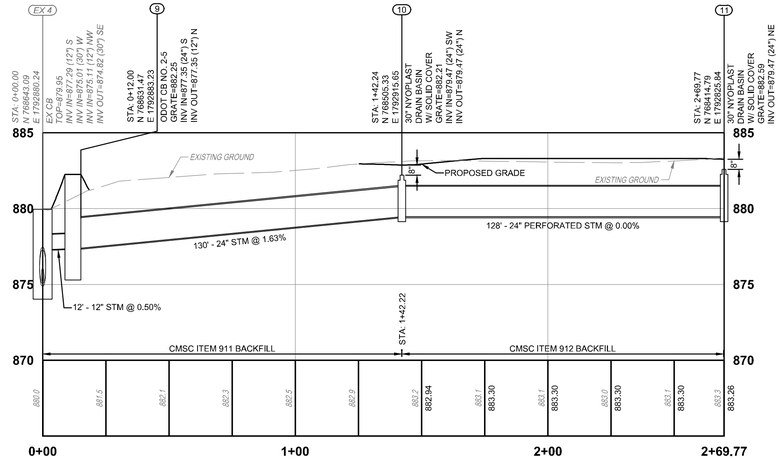


EX CB 3 TO MH 3



CB 2 TO CB 4

EW 5 TO CO 8



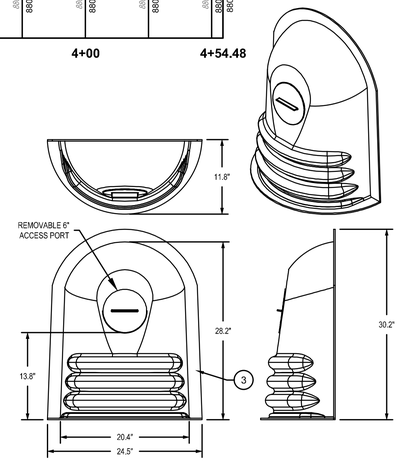
EX CB 4 TO CO 11

STRUCTURE COORDINATES

STRUCTURE #	NORTHING - PLAN	EASTING - PLAN	NORTHING - AS BUILT	EASTING - AS BUILT
EX 4	768643.09	1792880.24		
EX 3	768927.63	1792230.42		
1	768876.49	1792158.09		
2	768873.86	1791980.98		
3	769303.06	1791974.60		
4	768871.73	1791837.33		
5	768750.56	1793187.41		
6	768753.05	1793078.07		
7	768898.51	1793060.72		
8	768814.99	1792880.52		
9	768631.47	1792883.23		
10	768505.33	1792915.65		
11	768414.79	1792825.84		

STORM SEWER TABLE

LINE	BEARING	Length	SIZE
1-2	N89° 08' 57.70"E	177.13	12"
2-3	S00° 51' 02.30"E	429.24	24"
2-4	N89° 08' 57.74"E	143.66	12"
5-6	S88° 42' 00.58"E	109.37	12"
6-7	S06° 48' 01.07"E	146.50	24"
7-8	N65° 07' 58.63"E	198.61	24"
9-10	N14° 24' 49.51"W	130.24	24"
10-11	N44° 46' 07.33"E	127.53	24"
EX 3-1	N54° 44' 25.89"E	88.59	12"
EX 4-9	N14° 24' 49.51"W	12.00	12"



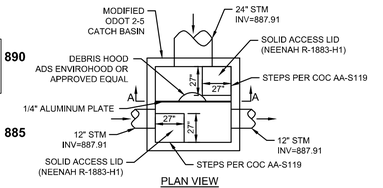
INSTALLATION INSTRUCTIONS:
1. MEASURE 3.5" UP FROM THE INVERT OF THE OUTLET PIPE & MAKE A HORIZONTAL MARK.
2. INSERT THE ENVIROHOOD & PLACE THE TOP EDGE OF THE FLANGE ON THE HORIZONTAL MARK. POSITION THE ENVIROHOOD DIRECTLY OVER THE OUTLET PIPE SO THAT THE ENTIRE OUTLET IS COVERED & THE FLANGES OF THE ENVIROHOOD DO NOT BLOCK THE INLET PIPES.
3. MARK & PRE-DRILL (TO MATCH THE HOLES IN THE ENVIROHOOD) 3/16" PILOT HOLES, FOR THE #14 X 1 1/4" SS SELF TAPPING HEX DRIVE SCREWS, THAT ARE PROVIDED IN THE INSTALL KIT. INSTALL 1/4 X 1" NEOPRENE BACKED WASHERS ON EACH SCREW.
4. ATTACH THE ENVIROHOOD TO THE DRAIN BASIN WITH THE #14 SS SCREWS, & TIGHTEN TO APPROXIMATELY 10-15 LBS.

MAINTENANCE INSTRUCTIONS:
1. THE STRUCTURE SHOULD BE INSPECTED AT LEAST ONCE PER MONTH FOR THE FIRST YEAR, OR UNTIL THE SITE HAS STABILIZED.
2. THE STRUCTURE SHALL BE CLEANED IF ACCUMULATED DEBRIS IS EQUAL OR GREATER TO THE FOLLOWING:
   A. DEBRIS IN SUMP - 18" MAX
   B. FLOATABLE DEBRIS - 6" MAX
3. THE DEBRIS SHALL BE CLEANED AND RINSED THOROUGHLY AS SPECIFIED BY ENGINEER BASED ON SITE CONDITIONS.

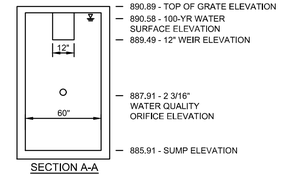
ADS ENVIROHOOD DETAIL
N.T.S.

UTILITY NOTES

1. CONNECTIONS TO EXISTING PUBLIC INFRASTRUCTURE SHALL BE CORE DRILLED. CONNECTIONS TO EXISTING UTILITIES REQUIRE CITY OF DUBLIN INSPECTION.
2. CONTRACTOR TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES BEFORE CONSTRUCTION BEGINS, USE CAUTION WHEN EXCAVATING, IF EXISTING UTILITIES ARE IN CONFLICT WITH PROPOSED UTILITIES, PLEASE NOTIFY THE DESIGN ENGINEER.



PLAN VIEW

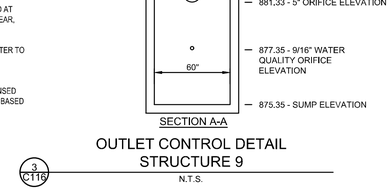


SECTION A-A

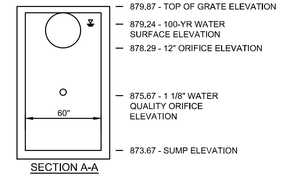
OUTLET CONTROL DETAIL STRUCTURE 2

1 / C116

N.T.S.



PLAN VIEW

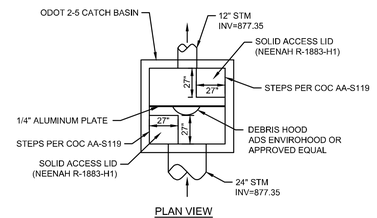


SECTION A-A

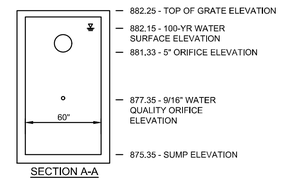
OUTLET CONTROL DETAIL STRUCTURE 6

2 / C116

N.T.S.



PLAN VIEW



SECTION A-A

OUTLET CONTROL DETAIL STRUCTURE 9

3 / C116

N.T.S.

THE KLEINGERS GROUP

CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE

www.kleingers.com
350 Worthington Rd
Suite H
Westerville, OH 43082
614.882.4311

SEAL:

STATE OF OHIO
MICHAEL J. COUVREUR
E-70851
REGISTERED
PROFESSIONAL ENGINEER

NO. DATE DESCRIPTION

DUBLIN COFFMAN HIGH SCHOOL TURF FIELDS

6780 COFFMAN ROAD
CITY OF DUBLIN
DUBLIN, OH 43017

PROJECT NO: 240173.001
DATE: 10/28/2024
SCALE: V 0 2.5 5 10 / H 0 15 30 60

SHEET NAME:

STORM SEWER PROFILES

16/18

SHEET NO.

C116

INSPIRED PEOPLE ▲ CREATIVE DESIGN ▲ TRANSFORMING COMMUNITIES

PROJECT DATA

PROJECT DESCRIPTION
THIS PROJECT CONSISTS OF TURF REPLACEMENT AT THE ATHLETIC FIELDS OF DUBLIN COFFMAN HIGH SCHOOL

LATITUDE:	N 40°06'28.73"
LONGITUDE:	W 83°07'49.44"
ESTIMATED CONSTRUCTIONS DATES:	05/01/2025 - 11/30/2025
TOTAL SITE AREA:	72.56 ACRES
TOTAL DISTURBED AREA:	4.75 ACRES
EXISTING IMPERVIOUS AREA:	21.90 ACRES
PROPOSED IMPERVIOUS AREA:	4.11 ACRES
TOTAL IMPERVIOUS AREA AFTER CONSTRUCTION:	26.01 ACRES
PRE-CONSTRUCTION RUNOFF COEFFICIENT :	C=0.57
POST-CONSTRUCTION RUNOFF COEFFICIENT:	C=0.60
IMMEDIATE RECEIVING WATER/MS4:	SOUTH FORK INDIAN RUN
ULTIMATE RECEIVING STREAM:	SCIOTO RIVER
EXISTING LAND USE:	HIGH SCHOOL CAMPUS
SOILS:	MoB - MILTON SILT LOAM, 2 TO 6 PERCENT SLOPES RhB - RITCHEY SILT LOAM, 2 TO 6 PERCENT SLOPES

CONSTRUCTION SEQUENCE

THE PROPOSED SEDIMENT BASIN WILL PERFORM TEMPORARY SEDIMENT CONTROL AND STORAGE DURING THE PROPOSED CONSTRUCTION. WORK WILL GENERALLY PROCEED FROM DOWNSTREAM TO UPSTREAM IN THE WORK AREA. THE GENERAL CONSTRUCTION SEQUENCE IS AS FOLLOWS:

A. INSTALL TREE PROTECTION, PERIMETER CONTROLS AND INLET PROTECTION. EXCAVATE SEDIMENT BASIN AND INSTALL OUTLET AND SKIMMER DEVICE.
B. STRIP AND STOCKPILE TOPSOIL AND ANY UNSUITABLE MATERIAL THROUGH THE INCREMENTAL WORK AREA. MAINTAIN STOCKPILES WITH TEMPORARY SEEDING.
C. INSTALL ALL TEMPORARY SEDIMENT CONTROLS WITHIN 24 HOURS FOLLOWING THE STRIPPING OPERATION. PERFORM MASS GRADING FOR FIELDS.
D. INSTALL SITE UTILITIES AND INLET PROJECTION ON NEW STORM STRUCTURES AS WORK PROGRESSES. ANY DISTURBED AREAS SHALL BE STABILIZED PER OEPA TEMPORARY AND PERMANENT STABILIZATION.
E. INSTALL SYNTHETIC TURF.
F. PROVIDE PERMANENT STABILIZATION FOR ANY DISTURBED AREAS AND REMOVE TEMPORARY SEDIMENT CONTROLS, SKIMMER DEVICE, PERIMETER CONTROLS, AND INLET PROTECTION.
G. MAINTAIN POST CONSTRUCTION BMPS AS REQUIRED.

ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF THE CITY OF DUBLIN AND/OR THE OHIO EPA.

EMERGENCY ACTION & SPILL PREVENTION PLAN

THE SCOPE OF WORK COVERED BY THIS PLAN INCLUDES EMERGENCY RESPONSE TO SPILLS, CONTAINMENT OF SPILLED LIQUIDS, EMERGENCY NOTIFICATION NUMBERS, AND SOIL EXCAVATION FOR SPILL CLEAN-UP.

IN THE EVENT OF A SPILL EVENT THE EMPLOYEE SHALL ASSESS THE SPILL AND IMMEDIATELY NOTIFY THE SAFETY OFFICER AND SUPERVISOR IN CHARGE, OR OTHER INDIVIDUALS AS LISTED BELOW.

TITLE	NAME	PHONE NUMBER
SITE SUPERINTENDENT	_____	
PROJECT ENGINEER	THE KLEINGERS GROUP	(614) 882-4311

IMMEDIATELY AFTER NOTIFICATION, THE EMPLOYEE WILL BE DIRECTED BY THE SAFETY OFFICER, OR RESPONSIBLE PARTY TO START CONTAINMENT PROCEDURES TO PREVENT THE MATERIAL FROM REACHING THE STORM SEWERS, DRAINAGE DITCH, AND OTHER OUTLETS USING THE FOLLOWING ACTIONS OR ANY OTHER MEANS NECESSARY WITHOUT COMPROMISING WORKER SAFETY:

1) CLEAR PERSONNEL FROM THE SPILL AREA AND ROPE OFF AREA.
2) STOP THE SPILL.
3) USE SORBENT MATERIALS, PLUG PUTTY, OR HOLE PUTTY AS NECESSARY TO CONTROL THE SPILL AT THE SOURCE.
4) CONSTRUCT A TEMPORARY CONTAINMENT DIKE OF SORBENT MATERIALS OR DIRT TO CONTAIN SPILL.

SPILL KITS WILL BE LOCATED ON THE PROJECT AS DESIGNATED ON THE SWPPP PLAN.

UPON COMPLETION OF CONTAINMENT OPERATIONS, PROPER CLEAN-UP PROCEDURES WILL BE IMPLEMENTED IN ACCORDANCE WITH REGULATORY PROCEDURES.

ADDITIONAL EMERGENCY CONTACT NUMBERS:	24 HOUR PHONE NO.:
OHIO EPA	614-728-3898

GENERAL NOTES

THE CONTRACTOR IS HEREBY ADVISED THAT STRICTER POLLUTION CONTROL STANDARDS AND ENFORCEMENT HAVE BEEN IMPOSED BY THE OHIO EPA SINCE MARCH 10, 2003 AND WITH A REVISION IN APRIL 2023. ALSO, MANY PRIVATE CITIZEN ENVIRONMENTAL GROUPS, WHO HAVE BEEN KNOWN TO FILE CIVIL LEGAL ACTIONS, ARE PRESENT IN THE AREA AND OBSERVE ALL CONSTRUCTION OPERATIONS.

THE CONTRACTOR SHALL INFORM ALL SUBCONTRACTORS OF THE REQUIREMENTS AND RESPONSIBILITIES OF THE SWPPP AND SHALL DOCUMENT ALL SUCH NOTIFICATIONS AND/OR DISCUSSIONS.

THE CONTRACTOR WILL BE REQUIRED TO PARTICIPATE IN SEDIMENT AND EROSION CONTROL INSPECTIONS ON A WEEKLY BASIS AND SIGN AN APPROVED INSPECTION SHEET THAT SHALL BE KEPT ON FILE AT THE JOB SITE.

UNLESS OTHERWISE NOTED, STANDARDS AND SPECIFICATIONS ESTABLISHED IN THE LATEST EDITION OF THE OEPA "RAINWATER AND LAND DEVELOPMENT" HANDBOOK SHALL GOVERN THE EROSION AND SEDIMENT CONTROL INSTALLATIONS SPECIFIED ON THIS PLAN.

THIS PROJECT WILL INVOLVE SEVERAL CONSTRUCTION PHASES AND SEQUENCING THROUGHOUT ITS LIFETIME. IT IS VERY IMPORTANT THAT ALL TEMPORARY SEDIMENT AND EROSION CONTROL (S&EC) FIELD METHODS ALONG WITH THIS PLAN, ARE UPDATED TO REFLECT THE ACTUAL FIELD CONDITIONS, CURRENT WEATHER CONDITIONS AND SITE GRADE CHANGES. THE ENGINEER OR THE OHIO EPA CAN AND WILL MODIFY THIS PLAN AS NECESSARY.

THE CONTRACTOR WILL VOLUNTARILY SELF REPORT ANY POTENTIAL VIOLATIONS OF THE OEPA NPDES PERMIT TO THE ENGINEER AND THE OEPA.

THE CONTRACTOR SHALL REMOVE EXISTING GROUND COVER ONLY AS NECESSARY FOR THE PROJECT PHASE CURRENTLY UNDER CONSTRUCTION.

CONSTRUCTION AND DEMOLITION DEBRIS SHALL BE PROPERLY DISPOSED OF ACCORDING TO OHIO EPA REQUIREMENTS.

THE CONTRACTOR WILL BE REQUIRED TO INSTALL EROSION CONTROL ITEMS TO CONTROL SEDIMENT RUNOFF TO ACCEPTABLE EPA STANDARDS BEFORE RELEASING RUNOFF INTO THE EXISTING DETENTION BASIN AND/OR OTHER DOWNSTREAM SOURCES.

THERE SHALL BE NO TURBID DISCHARGES TO SURFACE WATERS, RESULTING FROM DEWATERING ACTIVITIES. SEDIMENT-LADEN WATER MUST PASS THROUGH A SETTLING POND, FILTER BAG, OR OTHER COMPARABLE PRACTICE, PRIOR TO DISCHARGE.

NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF.

ALL PROCESS WASTEWATER (EQUIPMENT WASHING, LEACHATE FROM ON-SITE WASTE DISPOSAL, ETC.) SHALL BE COLLECTED AND DISPOSED OF AT A PUBLICLY OWNED TREATMENT WORKS.

ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH ALL LOCAL EROSION/SEDIMENT CONTROL, WASTE DISPOSAL, SANITARY AND HEALTH REGULATIONS.

OTHER EROSION CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND IMPLEMENTATION OF ADDITIONAL EROSION CONTROL ITEMS, AT THE ENGINEER'S DISCRETION.

NO SOIL, ROCK, DEBRIS OR OTHER MATERIAL SHALL BE DUMPED OR PLACED IN ANY AREAS NOT ADEQUATELY PROTECTED BY EROSION CONTROL INSTALLATIONS.

IT IS PREFERRED TO USE PERMANENT EROSION CONTROL ITEMS AS SHOWN IN THE PLANS TO CONTROL CONSTRUCTION POLLUTION WHEN POSSIBLE. OTHERWISE, THE TEMPORARY POLLUTION PREVENTION ITEMS ARE TO BE USED.

MOST TEMPORARY S&EC METHODS, INCLUDING BUT NOT LIMITED TO, SILT FENCE AND DITCH CHECKS MAY ALL HAVE TO BE PERIODICALLY REMOVED AND REPLACED, OR MOVED FROM THE EXISTING ROAD DITCH OR STRIPPED AREAS AS WORK PROGRESSES. ANY CHANGES SHALL BE NOTED IN THE PLAN BY RED LINE AND DATED ON A CORRECTIVE ACTION LOG.

ALL TEMPORARY SEDIMENT CONTROLS AND STORM WATER QUALITY METHODS WILL BE BUILT/INSTALLED AS THE PROJECT PROGRESSES TO ELIMINATE UNNECESSARY DISTURBANCE AND REDUNDANCY. ALL TEMPORARY CONTROLS SHALL BE IN PLACE AND FUNCTIONING PROPERLY WHEN THREATENING WEATHER IS IMMINENT.

"TEMPORARY STABILIZATION" MEANS THE ESTABLISHMENT OF TEMPORARY VEGETATION, MULCHING, GEOTEXTILES, SOD, PRESERVATION OF EXISTING VEGETATION AND OTHER TECHNIQUES CAPABLE OF QUICKLY ESTABLISHING COVER OVER DISTURBED AREAS TO PROVIDE EROSION CONTROL BETWEEN CONSTRUCTION OPERATIONS.

"PERMANENT STABILIZATION" MEANS THE ESTABLISHMENT OF PERMANENT VEGETATION, DECORATIVE LANDSCAPE MULCHING, MATTING, SOD, RIP RAP AND LANDSCAPING TECHNIQUES TO PROVIDE PERMANENT EROSION CONTROL ON AREAS WHERE CONSTRUCTION OPERATIONS ARE COMPLETE OR WHERE NO FURTHER DISTURBANCE IS EXPECTED FOR AT LEAST A YEAR.

OFF-SITE TRACKING OF SEDIMENTS SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. ALL PAVED STREETS ADJACENT TO THE SITE WILL BE SWEPT DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP.

STABILIZATION PRACTICES

PERMANENT SEEDING AND MULCHING STABILIZATION SHALL BE PROVIDED PER OEPA GUIDELINES AS SET FORTH IN PART II.B OF OHIO EPA PERMIT NO.: OHC000006. (SEE TABLE 1)

TABLE 1: PERMANENT STABILIZATION

AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE
ANY AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE
ANY OTHER AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA

TEMPORARY SEEDING AND MULCHING STABILIZATION SHALL BE PROVIDED PER OEPA GUIDELINES AS SET FORTH IN PART II.B OF OHIO EPA PERMIT NO.: OHC000006. (SEE TABLE 2)

TABLE 2: TEMPORARY STABILIZATION

AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY DISTURBED AREAS WITH 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST SEVEN DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S).
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	PRIOR TO THE ONSET OF WINTER WEATHER

ALL TEMPORARY EROSION AND SEDIMENT CONTROL INSTALLATIONS SHALL BE REMOVED WHEN 70% VEGETATION HAS BEEN REACHED.

SEEDING & MULCHING

MULCH AND/OR 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 14 DAYS OR ON AREAS AND PORTIONS OF THE SITE WHICH CAN BE BROUGHT TO FINAL GRADE.

MULCH SHALL CONSIST OF UNROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 2 TONS/AC. OR 90 LB./1000 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 1000-SQ.-FT. SECTIONS AND PLACE TWO 45-LB. BALES OF STRAW IN EACH SECTION.

MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR RUNOFF. THE FOLLOWING ARE ACCEPTABLE METHODS FOR ANCHORING MULCH:

1) 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 IN.
2) MULCH NETTINGS-USE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, FOLLOWING ALL PLACEMENT AND ANCHORING SUGGESTIONS. USE IN AREAS OF WATER CONCENTRATION AND STEEP SLOPES TO HOLD MULCH IN PLACE.
3) 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 WATERS OF THE STATE.
4) 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 LB./ACRE. 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.

TEMPORARY SEEDING & MULCHING FOR EROSION CONTROL

SEED TYPE	PER 1,000 SQ FT	PER ACRE
MARCH 1 TO AUGUST 15		
OATS TALL FESCUE ANNUAL RYEGRASS	3 POUNDS 1 POUND 1 POUND	128 POUNDS (4 BUSHELS) 40 POUNDS 40 POUNDS
PERENNIAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS	1 POUND 1 POUND 1 POUND	40 POUNDS 40 POUNDS 40 POUNDS
ANNUAL RYEGRASS PERENNIAL RYEGRASS CREEPING RED FESCUE KENTUCKY BLUEGRASS	1.25 POUNDS 3.25 POUNDS 0.4 POUNDS 0.4 POUNDS	55 POUNDS 142 POUNDS 17 POUNDS 17 POUNDS
SMALL GRAIN STRAW	90 POUNDS	2 TONS
FERTILIZER	6 POUNDS OF 10-10-10 OR 12-12-12	250 POUNDS OF 10-10-10 OR 12-12-12
AUGUST 16 TO NOVEMBER		
RYE TALL FESCUE ANNUAL RYEGRASS	3 POUNDS 1 POUND 1 POUND	112 POUNDS (2 BUSHELS) 40 POUNDS 40 POUNDS
WHEAT TALL FESCUE ANNUAL RYEGRASS	3 POUNDS 1 POUND 1 POUND	120 POUNDS (2 BUSHELS) 40 POUNDS 40 POUNDS
PERENNIAL RYE TALL FESCUE ANNUAL RYEGRASS	1 POUND 1 POUND 1 POUND	40 POUNDS 40 POUNDS 40 POUNDS
ANNUAL RYEGRASS PERENNIAL RYEGRASS CREEPING RED FESCUE KENTUCKY BLUEGRASS	1.25 POUNDS 3.25 POUNDS 0.4 POUNDS 0.4 POUNDS	40 POUNDS 40 POUNDS 40 POUNDS

PERMANENT SEEDING

SEED MIX	PER 1,000 SQ FT	PER ACRE	NOTES
GENERAL USE			
CREEPING RED FESCUE DOMESTIC RYEGRASS KENTUCKY BLUEGRASS	0.5 - 1 POUND 0.25 - 0.5 POUND 0.5 - 1 POUND	20 - 40 POUNDS 10 - 20 POUNDS 20 - 40 POUNDS	FOR CLOSE MOWING & FOR WATERWAYS W/ <2.0 FPS VELOCITY
TALL FESCUE	1 - 1.25 POUNDS	40 - 50 POUNDS	
TURF-TYPE (DWARF) FESCUE	2.25 POUNDS	90 POUNDS	
STEEP BANKS OR CUT SLOPES			
TALL FESCUE	1 - 1.25 POUNDS	40 - 50 POUNDS	
CROWN VETCH TALL FESCUE	0.25 - 0.5 POUND 0.5 - 0.75 POUND	10 - 20 POUNDS 20 - 30 POUNDS	DO NOT SEED LATER THAN AUG.
FLAT PEA TALL FESCUE	0.5 - 0.75 POUND 0.5 - 0.75 POUND	20 - 25 POUNDS 20 - 30 POUNDS	DO NOT SEED LATER THAN AUG.
ROAD DITCHES AND SWALES			
TALL FESCUE	1 - 1.25 POUNDS	40 - 50 POUNDS	
TURF-TYPE (DWARF) FESCUE KENTUCKY BLUEGRASS	2.25 POUNDS 0.1 POUND	90 POUNDS 5 POUNDS	
LAWNS			
KENTUCKY BLUEGRASS PERENNIAL RYEGRASS	2 POUNDS 2 POUNDS	100 - 120 POUNDS	
KENTUCKY BLUEGRASS CREEPING RED FESCUE	2 POUNDS 1.5 POUNDS	100 - 120 POUNDS	FOR SHADED AREAS

STOCKPILE

SILT FENCING SHALL BE INSTALLED AROUND TEMPORARY SPOIL STOCKPILES. THESE STOCKPILES SHALL BE STRAW MULCHED AND/OR TEMPORARILY SEEDED WITHIN 7 WORKING DAYS IF LEFT DORMANT FOR 14 DAYS OR LONGER.

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, CONSTRUCTION ENTRANCE(S) AND SILT FENCE WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. SEDIMENT CONTROL DEVICES SHALL BE IMPLEMENTED FOR ALL AREAS REMAINING DISTURBED LONGER THAN 14 DAYS AND/OR WITHIN 7 DAYS OF ANY GRUBBING ACTIVITIES. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 14 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN 2 DAYS OF THE LAST DISTURBANCE IF THE AREA IS WITHIN 50 FEET OF A STREAM, AND WITHIN 7 DAYS OF THE LAST DISTURBANCE IF THE AREA IS MORE THAN 50 FEET AWAY FROM A STREAM. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE BASIN.

STABILIZATION TYPE	J	F	M	A	M	J	J	A	S	O	N	D
PERMANENT SEEDING			●	●	●	*	*	*	●	●		
DORMANT SEEDING	●	●	●							●	●	●
TEMPORARY SEEDING			●	●	●	*	*	*	●	●		
SODDING				**	**	**	**	**	**	**		
MULCHING	●	●	●	●	●	●	●	●	●	●	●	●

* IRRIGATION NEEDED
** IRRIGATION NEEDED FOR 2-3 WEEKS AFTER SOD IS APPLIED

INSPECTIONS

ALL BMPS ON THIS SITE SHALL BE INSPECTED BY "QUALIFIED INSPECTION PERSONNEL" ASSIGNED BY THE CONTRACTOR OR DESIGNATED REPRESENTATIVE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND BY THE END OF THE NEXT CALENDAR DAY, EXCLUDING WEEKENDS AND HOLIDAYS UNLESS WORK IS SCHEDULED, AFTER A RAIN EVENT OF 0.5 INCHES PER 24 HOUR PERIOD. A RECORD OF THESE INSPECTIONS SHALL BE MAINTAINED IN THE CONSTRUCTION OFFICE WITH THE SWPPP FOR PUBLIC VIEWING. ANY VIOLATIONS WILL BE REPORTED THROUGH THE PROJECT PERSONNEL. A RAIN GAUGE WILL BE LOCATED WITHIN THE PROJECT LIMITS.

FOLLOWING EACH INSPECTION, A CHECKLIST MUST BE COMPLETED AND SIGNED BY THE QUALIFIED INSPECTION PERSONNEL REPRESENTATIVE. AT A MINIMUM, THE INSPECTION REPORT SHALL INCLUDE:

1. THE INSPECTION DATE;
2. NAMES, TITLES, AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION;
3. WEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPECTION (OR SINCE COMMENCEMENT OF CONSTRUCTION ACTIVITY IF THE FIRST INSPECTION) INCLUDING A BEST ESTIMATE OF THE BEGINNING OF EACH STORM EVENT, DURATION OF EACH STORM EVENT, APPROXIMATE AMOUNT OF RAINFALL FOR EACH STORM EVENT (IN INCHES), AND WHETHER ANY DISCHARGES OCCURRED;
4. WEATHER INFORMATION AND A DESCRIPTION OF ANY DISCHARGES OCCURRING AT THE TIME OF THE INSPECTION;
5. LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE;
6. LOCATION(S) OF BMPS THAT NEED TO BE MAINTAINED;
7. LOCATION(S) OF BMPS THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION;
8. LOCATION(S) WHERE ADDITIONAL BMPS ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION; AND
9. CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO THE SWP3 NECESSARY AND IMPLEMENTATION DATES.

MAINTENANCE

THE CONTRACTOR SHALL MAINTAIN, REPAIR, OR REPLACE ALL EROSION CONTROL INSTALLATIONS AS NEEDED TO ENSURE THE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL REPAIRS TO BMPS SHALL BE MADE WITHIN 3 DAYS (OR SOONER IF POSSIBLE) OF NOTIFICATION OF DEFICIENCIES. IF THE CORRECTIONS ARE NOT MADE WITHIN THE 3 DAY PERIOD, LIQUIDATED DAMAGES MAY BE ASSESSED AS PER THE ODOT CMS SECTION 108.27.

ONGOING INSPECTION OF INSTALLATIONS WILL BE PERFORMED BY THE CONTRACTOR OR DESIGNATED REPRESENTATIVE.

ANY TRAPPED SEDIMENT OR DEBRIS REMOVED DURING CLEANING OF OR REMOVAL OF BMP INSTALLATIONS SHALL BE PLACED IN AREAS NOT SUBJECT TO EROSION AND PERMANENTLY STABILIZED.

DUST CONTROL

DUST CONTROL INVOLVES PREVENTING OR REDUCING DUST FROM EXPOSED SOILS OR OTHER SOURCES DURING LAND DISTURBING, DEMOLITION AND CONSTRUCTION ACTIVITIES TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY PRESENT HEALTH HAZARDS, TRAFFIC SAFETY PROBLEMS OR HARM ANIMAL OR PLANT LIFE.

THE FOLLOWING SPECIFICATIONS FOR DUST CONTROL SHALL BE FOLLOWED ONSITE:

1. VEGETATIVE COVER AND/MULCH - APPLY TEMPORARY OR PERMANENT SEEDING AND MULCH TO AREAS THAT WILL REMAIN IDLE FOR OVER 14 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.
2. WATERING - SPRAY SITE WITH WATER UNTIL THE SURFACE IS WET BEFORE AND DURING GRADING AND REPEAT AS NEEDED, 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.

ADHESIVE	WATER DILUTION (ADHESIVE: WATER)	NOZZLE TYPE	APPLICATION RATE (GAL/AC)
LATEX EMULSION	12.5:1	FINE	235
RESIN 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

THE KLEINGERS GROUP
CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE
www.kleingers.com
350 Worthington Rd
Suite H
Westerville, OH 43082
614.882.4311

SEAL:

STATE OF OHIO
MICHAEL J. COUVREUR
E-70851
REGISTERED
PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION

DUBLIN COFFMAN HIGH SCHOOL TURF FIELDS
6780 COFFMAN ROAD
CITY OF DUBLIN
DUBLIN, OH 43017

PROJECT NO: 240173.001
DATE: 10/28/2024
SCALE: NOT TO SCALE

SHEET NAME:
EROSION CONTROL NOTES
17/18

SHEET NO.
C117

INSPIRED PEOPLE ▲ CREATIVE DESIGN ▲ TRANSFORMING COMMUNITIES

SPILL PREVENTION

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

GOOD HOUSEKEEPING:

1. AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
2. ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
3. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
4. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
5. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
6. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
7. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.

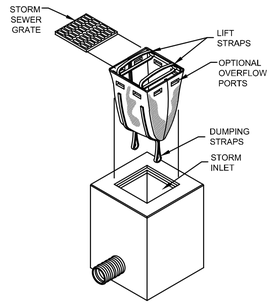
HAZARDOUS PRODUCTS:

1. PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
2. ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
3. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

1. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
2. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
3. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
4. SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE. SPILLS OF 25 OR MORE GALLONS OF PETROLEUM WASTE MUST BE REPORTED TO OHIO EPA (1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MINUTES OF THE SPILL. ALL SPILLS, WHICH RESULT IN CONTACT WITH WATERS OF THE STATE, MUST BE REPORTED TO THE OHIO EPA'S HOTLINE.
5. SOILS CONTAMINATED BY PETROLEUM OR OTHER CHEMICAL SPILLS MUST BE TREATED/DISPOSED AT AN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITY OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITY (TSDF).
6. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
7. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE WILL DESIGNATE SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ONSITE.



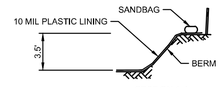
SPECIFICATIONS

MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	KN (LBS)	1.62 (365) X 0.89 (200)
GRAB TENSILE ELONGATION	ASTM D 4632	%	24 X 10
PUNCTURE STRENGTH	ASTM D 4833	KN (LBS)	0.40 (90)
MULLEN BURST STRENGTH	ASTM D 3786	KPA (PSI)	3097 (450)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	KN (LBS)	0.51 (115) X 0.33 (75)
UV RESISTENCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	MM (US STD SIEVE)	0.425 (40)
FLOW RATE	ASTM D 4491	l/MIN/M²(GAL/MIN/FT²)	5907 (145)
PERMITTIVITY	ASTM D 4491	SEC⁻¹	2.1

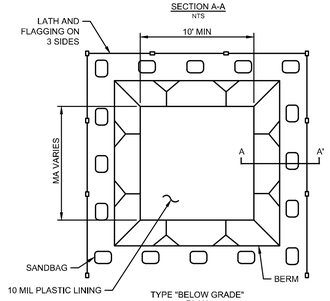
INSTALLATION: REMOVE THE GRATE FROM THE CATCH BASIN. IF USING OPTIONAL OIL ABSORBENTS, PLACE ABSORBENT PILLOW IN POUCH ON BOTTOM OF THE UNIT. STAND THE GRATE ON END. MOVE THE TOP LIFTING STRAPS OUT OF THE WAY AND PLACE THE GRATE INTO THE DANDY SACK SO THAT THE GRATE IS BELOW THE TOP STRAPS AND ABOVE THE LOWER STRAPS. HOLDING THE LIFTING STRAPS, INSERT THE GRATE INTO THE INLET.

MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM THE VICINITY OF THE UNIT AFTER EACH STORM EVENT. AFTER STORM EVENT AND AT REGULAR INTERVALS, LOOK INTO DANDY SACK. IF CONTAINMENT AREA IS MORE THAN ½ FULL OF SEDIMENT, THE UNIT MUST BE EMPTIED. TO EMPTY UNIT, SIMPLY LIFT THE UNIT USING LIFTING STRAPS AND REMOVE THE GRATE. IF USING OPTIONAL OIL ABSORBENTS, REPLACE ABSORBENT PILLOW WHEN NEAR SATURATION.

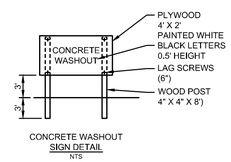
DANDY SACK DETAIL
N.T.S.



SECTION A-A
NTS



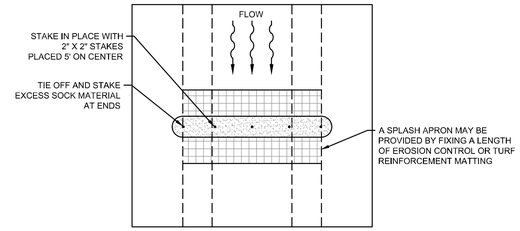
TYPE "BELOW GRADE"
PLAN
NTS



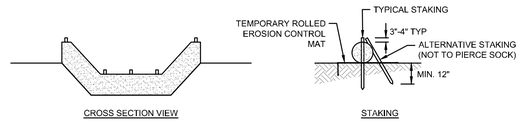
CONCRETE WASHOUT
SIGN DETAIL
NTS

NOTES:
1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

CONCRETE WASHOUT DETAIL
N.T.S.



PLAN VIEW



CROSS SECTION VIEW | STAKING

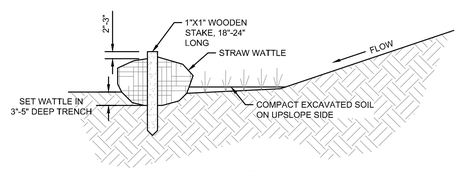
NOTES:

1. COMPOST SOCK NETTING SHALL USE A KNITTED MESH FABRIC WITH 1/8-3/8 INCH OPENINGS, AND COMPOST MEDIA WITH PARTICLE SIZES 99% < 3 INCHES, AND 60% > 3/8 INCHES .
2. COMPOST SOCK CHECK DAMS SHALL BE USED IN AREAS THAT DRAIN 5 ACRES OR LESS.
3. SEDIMENT SHALL BE REMOVED FROM BEHIND THE SOCK WHEN IT REACHES ½ THE HEIGHT OF THE CHECK DAM.
4. COMPOST SOCK CHECK DAMS SHALL BE CONSTRUCTED WITH 12, 18, OR 24 IN DIAMETER COMPOST SOCKS, AND SHALL COMPLETELY COVER THE WIDTH OF THE CHANNEL. THE MIDPOINT OF THE COMPOST SOCK CHECK DAM SHALL BE A MINIMUM OF 6 INCHES LOWER THAN THE SIDES IN ORDER TO DIRECT FLOW ACROSS THE CENTER AND AWAY FROM THE CHANNEL SIDES. FILTER SOCK CHECK DAMS SHALL BE FILLED TO A DENSITY SUCH THAT THEY SHALL REACH THEIR INTENDED HEIGHT (DIAMETER). AFTER INSTALLATION AND USE, THEY SHALL BE CONSIDERED UNSUITABLE AND IN NEED OF REPLACEMENT AFTER FALLING BELOW 80% OF THEIR MINIMUM REQUIRED HEIGHT (DIAMETER).
5. ALTHOUGH NO TRENCHING IS NECESSARY, COMPOST SOCK CHECK DAMS SHALL BE PLACED ON A GRADED SURFACE WHERE CONSISTENT CONTACT WITH THE SOIL SURFACE IS MADE WITHOUT BRIDGING OVER GAPS, RILLS, GULLIES, STONES OR OTHER IRREGULARITIES.
6. PLACE COMPOST SOCK CHECK DAMS SO THAT THE ENDS EXTEND TO THE TOP OF BANK. STAKING FOR COMPOST SOCK CHECK DAMS SHALL USE 2 INCH X 2 INCH WOODEN STAKES, PLACED 5 FOOT ON CENTER. STAKE LENGTH SHALL ALLOW THEM TO BE DRIVEN 12 INCHES INTO EXISTING SOIL AND ALLOW AT LEAST 2 INCHES ABOVE THE SOCK.
7. SPACE COMPOST SOCK CHECK DAMS SO THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION OR LOWER ELEVATION AS THE TOP OF THE DOWNSTREAM COMPOST SOCK CHECK DAM (AT THE CENTER OF THE CHANNEL). THIS WILL BE INFLUENCED BY THE HEIGHT OF THE SOCK AND GRADIENT OF THE WATERWAY.
8. A SPLASH APRON MAY BE NEEDED WHERE FLOWS OVER THE SOCK MAY ERODE THE CHANNEL AND UNDERCUT THE COMPOST SOCK CHECK DAM. CREATE THE APRON BY FIXING A LENGTH OF TEMPORARY ROLLED EROSION CONTROL PRODUCT (EROSION CONTROL MATTING) OR TURF REINFORCEMENT MATTING STARTING UPSTREAM OF THE SOCK A DISTANCE EQUAL TO THE SOCK HEIGHT AND EXTENDING A LENGTH TWO TIMES THE HEIGHT OF THE COMPOST SOCK CHECK DAM. SEE CHAPTER 7 FOR INFORMATION REGARDING THESE MATERIALS. MATERIALS USED SHOULD BE ABLE TO BE LEFT IN PLACE (E.G. BIODEDEGRADABLE/PHOTODEGRADABLE TRECP) WITHOUT CREATING PROBLEMS FOR FUTURE MOWING OR MAINTANANCE OF THE CHANNEL.

MAINTENANCE

9. SEDIMENT SHALL BE REMOVED FROM BEHIND CHECK DAM ONCE IT ACCUMULATES TO ONE-HALF THE ORIGINAL HEIGHT OF THE CHECK DAM.

COMPOST SOCK CHECK DAM DETAIL
N.T.S.



SECTION

NOTES:

1. MATERIALS – WATTLE SHALL BE COMPOSED OF 100% WEED FREE AGRICULTURAL STRAW AND/OR COCONUT FIBER BE WRAPPED IN TUBULAR UV STABILIZED SYNTHETIC NET.
2. THE NETTING WEIGHT SHALL BE APPROXIMATELY 0.35 OUNCES/LINEAR FT. AND SHALL BE MADE FROM HDPE (HIGH DENSITY POLYETHYLENE) PHOTODEGRADABLE ORIENTED NET WITH UV INHIBITION. THE NETTING SHALL HAVE A DIAMOND SHAPED APERTURE MEASURING 0.50 X 0.50 INCHES (1.27 X 1.27 CM).
3. THE WATTLE ENDS WILL BE SECURED WITH CLOSURES.
4. MINIMUM WATTLE DIAMETER IS 12 INCHES AND SHALL HAVE A MINIMUM WEIGHT OF 2.5 LBS/LF.

INSTALLATION:

5. WATTLES 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 WATTLES SHALL BE PROVIDED AT THE TOP AND AS NEEDED MIDSLOPE.
6. USE A HAND TOOL SUCH AS A MADDOX OR PICK TO SCORE THE GROUND. USING A SHOVEL, DIG THE TRENCH TO THE NEEDED DEPTH. SOIL FROM EXCAVATING THE TRENCHES CAN BE PLACED ON THE UPHILL, OR FLOW SIDE, OF THE TRENCH TO BE USED DURING INSTALLATION.
7. LAY THE FIRST STRAW WATTLE SNUGLY IN THE TRENCH. NO DAYLIGHT SHOULD BE SEEN UNDER THE WATTLE. PACK SOIL FROM TRENCHING AGAINST THE WATTLE ON THE UPHILL SIDE. WHEN INSTALLING RUNNING LENGTHS OF STRAW WATTLES, BUTT THE SECOND WATTLE TIGHTLY AGAINST THE FIRST WATTLE. DO NOT OVERLAP THE ENDS ON TOP OF EACH OTHER. STAKE THE STRAW WATTLES AT EACH END AND 3-4 FEET ON CENTER.
8. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE, LEAVING 2-3 INCHES OF THE STAKE PROTRUDING ABOVE THE WATTLE. WHEN STRAW WATTLES ARE USED FOR FLAT GROUND APPLICATIONS, DRIVE THE STAKES STRAIGHT DOWN; WHEN INSTALLING WATTLES ON SLOPES, DRIVE THE STAKES PERPENDICULAR TO THE SLOPE.
9. WATTLES ARE NOT TO BE USED IN CONCENTRATED FLOW SITUATIONS OR IN RUNOFF CHANNELS.

MAINTENANCE:

10. ROUTINELY INSPECT WATTLES AFTER EACH SIGNIFICANT RAIN, MAINTAINING WATTLES IN A FUNCTIONAL CONDITION AT ALL TIMES.
11. REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE WATTLES WHEN THEY REACH 1/3 OF THE EXPOSED HEIGHT OF THE PRACTICE.
12. WHERE THE WATTLE DETERIORATES OR FAILS, IT WILL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE ALTERNATIVE.
13. REMOVAL – WATTLES WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED IN SUCH AS WAY AS TO FACILITATE AND NOT OBSTRUCT SEEDINGS.

STRAW WATTLE DETAIL
N.T.S.

THE KLEINGERS GROUP
CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE
www.kleingers.com
350 Worthington Rd
Suite H
Westerville, OH 43082
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SEAL:

STATE OF OHIO
MICHAEL J. COUVREUR
E-70851
REGISTERED
PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION

DUBLIN COFFMAN HIGH SCHOOL TURF FIELDS
6780 COFFMAN ROAD
CITY OF DUBLIN
DUBLIN, OH 43017

PROJECT NO: 240173.001
DATE: 10/28/2024
SCALE: NOT TO SCALE

SHEET NAME: **EROSION CONTROL NOTES & DETAILS 18/18**

SHEET NO. **C118**