

S:\Darien\Maine Township HS 207\240173_Summer 2025 Projects\01\11 Drawings\02 CD\MAINE WEST - SYNTHETIC TURF FIELD\240173 MW_CO.00 COVER SHEET.dwg hcongletton Dec 09, 2025 11:50:37 am
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MAINE TOWNSHIP HIGH SCHOOL DISTRICT 207 MAINE WEST - SYNTHETIC TURF FIELD IMPROVEMENTS

1755 S WOLF RD
 DES PLAINES, IL 60018

PROJECT TEAM

CLIENT:

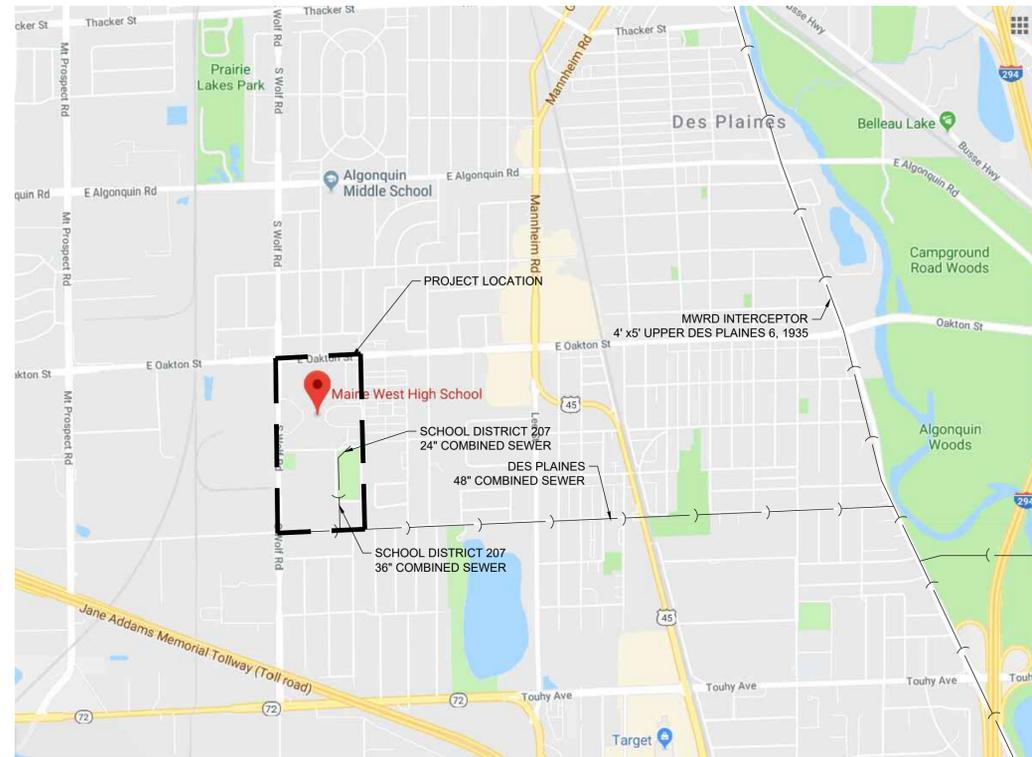
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 DARIEN, IL 60561
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 FAX: (630) 969-7979
 CONTACT: SHAWN BENSON
 Design Firm Registration #184-000451

LOCATION MAP

Section 30 / Township 41N / Range 12E



INDEX OF DRAWINGS

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UTILITY LOCATE

FOR UNDERGROUND UTILITY
 LOCATIONS, CALL J.U.L.I.E.
 TOLL FREE (800) 892-0123

JULIE SUBURBS & DIGG CHICAGO

- YELLOW ——— GAS
- RED ——— ELECTRICAL
- ORANGE ——— PHONE / TV COMMUNICATION
- BLUE ——— WATER
- GREEN ——— SEWERS
- WHITE ——— SAFE TO DIG

BENCHMARKS

BENCHMARK - AJ2823 GPS MONUMENT
 LOCATED ON DEVON AVENUE ACROSS FROM
 THE ENESCO BUILDING
 ELEVATION: 673.15 (NAVD88)

SITE BM 1
 ARROW BOLT ON HYDRANT DIRECTLY
 NORTHEAST OF NORTHEAST WING OF SCHOOL
 ELEVATION: 653.83 (NAVD88)

SITE BM 2
 ARROW BOLT ON HYDRANT DIRECTLY NORTH
 OF SOUTHEAST WING OF SCHOOL AND SOUTH
 OF EAST BUILDING
 ELEVATION: 653.40 (NAVD88)

SITE BM 3
 ARROW BOLT ON HYDRANT DIRECTLY SOUTH
 OF SOUTHWEST WING OF SCHOOL AND ALONG
 THE SOUTH SIDE OF THE PARKING LOT
 ENTRANCE ROAD
 ELEVATION: 652.89 (NAVD88)

**Contact the Metropolitan
 Water Reclamation District
 of Greater Chicago 2 days
 before starting work.**

P (708) 588-4055
E WMOJobStart@mwrdd.org



MAINE TOWNSHIP HS
 DISTRICT 207



Wight & Company
 wightco.com

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 Darien, IL 60561

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ISSUED FOR BID	12/09/2025
REV	DESCRIPTION DATE

MAINE TOWNSHIP HS DISTRICT 207

SYNTHETIC TURF FIELD IMPROVEMENTS

MAINE WEST HIGH SCHOOL

1755 SOUTH WOLF ROAD
 DES PLAINES, IL 60018

COVER SHEET

Project Number:
 240173
 Drawn By:
 VO
 Sheet:

C0.00

GENERAL

- EXISTING SITE TOPOGRAPHY, UTILITIES, AND HORIZONTAL CONTROL SHOWN ON THE DRAWINGS WERE FIELD MEASURED BY DLZ, DATED 04/19/2019. UNDERGROUND UTILITY LOCATIONS ARE BASED ON BEST AVAILABLE INFORMATION. TRADE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITY LOCATIONS, INVERTS, RIMS, PIPE SIZE, MATERIAL, TYPE, ETC. PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- ELEVATIONS ARE BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM NAVD 88 DATUM.
- THE TRADE CONTRACTOR SHALL SUBSCRIBE TO ALL GOVERNING REGULATIONS AND SHALL ABIDE BY THE REQUIREMENTS OF ALL APPLICABLE PERMITS.
- ALL APPLICABLE PROVISIONS OF THE CURRENT OCCUPATIONAL HEALTH AND SAFETY ACT ARE HEREIN INCORPORATED BY REFERENCE.
- NO BURNING OR INCINERATION OF RUBBISH IS PERMITTED ON THE SITE.
- STREET AND DRIVEWAY PAVEMENT SHALL BE PROTECTED FROM DAMAGE, ANY DAMAGE SHALL BE REPAIRED PER THE CITY OF DES PLAINES REQUIREMENTS. MATERIALS AND WORKMANSHIP OF REPAIRS SHALL CONFORM TO THE "DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS, (LATEST EDITION), THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS (LATEST EDITION), HEREIN AFTER REFERRED TO AS "STANDARD SPECIFICATIONS" AND THE CITY OF DES PLAINES REQUIREMENTS.
- THE "DEVELOPMENT REGULATIONS", LATEST EDITION, AS ADOPTED BY THE CITY OF DES PLAINES, ILLINOIS, HEREIN AFTER REFERRED TO AS THE "DEVELOPMENT REGULATIONS", INCLUDING ALL CITY STANDARD DETAILS AND SPECIFICATIONS; THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION)" AND THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS (LATEST EDITION)" PREPARED BY ILLINOIS DEPARTMENT OF TRANSPORTATION (DOT), HEREIN AFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"; AND ILLINOIS ENVIRONMENTAL PROTECTION AGENCY ILLINOIS URBAN MANUAL, LATEST EDITION, AND "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", HEREIN AFTER REFERRED TO AS "ISPE STANDARDS" SHALL GOVERN THE CONSTRUCTION OF THESE IMPROVEMENTS EXCEPT AS MODIFIED BY THE CONTRACT DOCUMENTS.
- ALL CONNECTIONS TO EXISTING UTILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATIONS OF THE CITY OF DES PLAINES, ILLINOIS AND THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, HEREIN AFTER REFERRED TO AS ISPE STANDARDS.
- ALL FACILITIES OR LANDSCAPING DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION BY THE RESPONSIBLE TRADE CONTRACTOR.
- PROPOSED ELEVATIONS INDICATE FINISHED GRADES. FOR SUBGRADE ELEVATIONS, ALLOW FOR THICKNESS OF PROPOSED PAVING OR TOPSOIL THICKNESS.
- THE TRADE CONTRACTOR SHALL NOTIFY THE CITY OF DES PLAINES, ILLINOIS 48 HOURS BEFORE THE COMMENCEMENT OF CONSTRUCTION.
- SHOULD THE TRADE CONTRACTOR ENCOUNTER FIELD DRAINAGE TILE NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY CONTACT ENGINEER AND THE CITY OF DES PLAINES FOR INSTRUCTIONS. SHOULD THE ENGINEER OR CITY OF DES PLAINES INSTRUCT THAT DAMAGED FIELD TILES BE RESTORED TO THEIR ORIGINAL CONDITION, THAT REPAIR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE LOCATION OF FOUND DRAINAGE TILE SHALL BE INDICATED ON THE RECORD DRAWINGS.
- ALL TRENCHES SHOULD FOLLOW THE CITY OF DES PLAINES STANDARD DETAILS INCLUDED IN THE CIVIL DETAILS. TRENCHES ARE TO BE BACKFILLED WITH TRENCH BACKFILL AND COMPACTED TO 95% MODIFIED PROCTOR DENSITY, AS REQUIRED BY THE CITY OF DES PLAINES AND THE ISPE STANDARDS.
- TRADE CONTRACTOR IS RESPONSIBLE FOR CALLING J.U.L.I.E. AT 1-800-892-0123 OR 811 AND NOTIFYING THE CONSTRUCTION MANAGER AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING UTILITY MARKINGS THROUGHOUT CONSTRUCTION.
- ALL DIMENSIONS, CURB RADI AND ELEVATIONS REFER TO THE BACK OF CURB WHERE CURB IS SHOWN. COORDINATES ARE TO BACK OF CURB, CENTER OF STRUCTURES OR AS SHOWN.
- WHERE PAVEMENT, CURB OR SIDEWALK REMOVAL IS REQUIRED, THE TRADE CONTRACTOR SHALL SAW CUT THE BOUNDARIES OF THE AREA TO BE REMOVED PRIOR TO DEMOLITION.
- TRADE CONTRACTOR IS RESPONSIBLE FOR LAYOUT, LINE AND GRADE FOR ITEMS INCLUDED IN THE CONTRACT SCOPE OF WORK. CONTRACTOR TO USE CAD FILES AS PROVIDED BY THE ENGINEER FOR GEOMETRIC LAYOUT.
- TRADE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE PUBLIC STREET CLEAN OF DEBRIS.
- "BAND SEAL" JOINTS WITH STAINLESS STEEL STRAPS AND BOLTS SHALL BE USED WHEN CONNECTING DISSIMILAR MATERIALS.
- ALL EXISTING UTILITY STRUCTURES SHALL BE ADJUSTED AS NECESSARY TO MATCH FINISH GRADE. ALL EXISTING UTILITY STRUCTURES REQUIRING ADJUSTMENT OR RECONSTRUCTION SHALL BE COMPLETED BY THE CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER. ADJUSTMENTS AND/OR RECONSTRUCTIONS NOT CALLED FOR ON THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. NO MORE THAN A TOTAL OF 12 INCHES OF ADJUSTING RINGS AND/OR 2 ADJUSTING RINGS SHALL BE ALLOWED.
- IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT IN LOCATION AND/OR ELEVATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND CONSTRUCTION MANAGER SO THAT THE CONFLICT MAY BE RESOLVED.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL AS-BUILT SURVEYS. ALL AS-BUILT SURVEYS SHALL BE COMPLETED BY A PROFESSIONAL LAND SURVEYOR AND BE SIGNED AND SEALED. THE CONTRACTOR SHALL SUBMIT TWO SETS OF THE "AS-BUILT" FINAL ENGINEERING DRAWINGS (I.E. RECORD DRAWINGS) AND STORMWATER MANAGEMENT CALCULATIONS UPON COMPLETION OF IMPROVEMENTS AND INCLUDE ELECTRONIC CAD FILES. THE RECORD DRAWINGS SHOULD AT LEAST INCLUDE THE FOLLOWING INFORMATION: AS-BUILT DETENTION CONTOURS, ELEVATIONS (INCLUDING DETENTION BASIN TOP OF BERM AND OVERFLOW WEIR GRADES) AND VOLUME (VERIFIED, SIGNED, & SEALED BY A PROFESSIONAL ENGINEER (PE) OR PROFESSIONAL LAND SURVEYOR (PLS)); ELEVATION AND LOCATION (TIES TO TWO POINTS) OF ALL NEW STRUCTURES INCLUDING FIRE HYDRANTS, VALVE BOXES AND VAULTS, LINESPOST SLEEVES, WATER SERVICE CORPORATION STOPS, WATER MAIN FITTINGS/BENDES, MANHOLES, SANITARY SERVICE WYES (MEASURED FROM DOWNSTREAM MANHOLE), ALL STORM/SANITARY SEWER STRUCTURES (INCLUDING INVERTS AND PIPE SIZES), ALL PIPES (LOCATIONS, SIZES, LENGTHS, ETC.), OUTLET CONTROL STRUCTURES (INCLUDING RESTRICTOR SIZES AND ELEVATIONS PLUS TOP OF WALL) AND ABANDONED WATER OR SANITARY SERVICE LINES. DETAILED TOPOGRAPHIC SURVEY OF ALL HIGH POINTS, LOW POINTS, CHANGE OF SLOPE INCLUDING GUTTER GRADES, TOP OF CURB GRADES, PAVEMENT GRADES, SIDEWALK GRADES, RAMP GRADES, ETC., TO VERIFY POSITIVE DRAINAGE. ALL ELEVATIONS SHOULD BE REFERENCED TO THE SAME BENCHMARK DATUM AS THE ORIGINAL DESIGN PLANS. HORIZONTAL TIES SHALL BE REFERENCED TO LOT LINES, BACK OF CURB, OR PROPERTY CORNERS. WITHIN DETENTION/BMP AREAS: FOR VERIFICATION OF DETENTION VOLUME AND SUBBASE GRADES, PRIOR TO BACK FILLING WITH CA-7, THE CONTRACTOR SHALL PROVIDE ENGINEER WITH A CERTIFIED TOPO SURVEY OF AS-BUILT SUBBASE GRADES FOR ENGINEER APPROVAL AND ALSO A COPY OF RECEIPT OF THE CA-7 AGGREGATE.
- EMERGENCY VEHICLE ACCESS IS TO BE MAINTAINED THROUGHOUT DURATION OF PROJECT. VEHICLE ACCESS IS TO BE CLEARLY MARKED. ANY ALTERATION OF EMERGENCY VEHICLE ROUTE OR ACCESS IS TO BE APPROVED BY THE CITY OF DES PLAINES, ILLINOIS.

HOT MIX ASPHALT PAVING

- PREPARATION, BASE COURSE PLACEMENT, AND HMA PAVEMENT SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
- DEPRESSIONS OF FINAL HMA SURFACES SHALL NOT EXCEED 1/4 INCH FROM PROPOSED CORRECTIONS TO NON-COMPLIANT AREAS ORDERED BY THE CONSTRUCTION MANAGER SHALL BE MADE AT NO ADDITIONAL CHARGE.
- ALL SIGNAGE AND STRIPING SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.

TRAFFIC CONTROL

- THE TRADE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL (DOT STANDARD 701006) AT ALL TIMES WHEN ANY VEHICLES, EQUIPMENT, WORKER, OR ACTIVITY ENCRDACH ADJACENT ROADWAYS FROM 15 FEET TO THE EDGE OF PAVEMENT. THE TRADE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL (DOT STANDARD 701701) WHEN ACTIVITY ENCRDACHES THE EDGE OF PAVEMENT FOR THESE ROADS.
- IF THE OPERATION IS 15 FEET OR MORE, OFF THE EDGE OF PAVEMENT, NO SIGNING WILL BE REQUIRED UNLESS TWO OR MORE VEHICLES CROSS THE 15 FOOT CLEAR ZONE IN ONE HOUR
- WHEN WORKING WITHIN 2 FEET OF THE PAVEMENT EDGE, CONES, DRUMS, OR BARRICADES SHALL BE PLACED ACCORDING TO THE STANDARD 70101 REQUIREMENTS.
- CONTRACTOR MUST FOLLOW ALL CITY OF DES PLAINES AND COOK COUNTY DEPARTMENT OF TRANSPORTATION AND HIGHWAYS REQUIREMENTS FOR TRAFFIC CONTROL.

STORM SEWER

- CONTRACTOR TO FOLLOW ALL CITY OF DES PLAINES REQUIREMENTS.
- ALL STORM STRUCTURES AND SEWERS ARE TO BE CLEANED PRIOR TO FINAL ACCEPTANCE. THE TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING SEDIMENT FROM THE STORM SEWER STRUCTURES AND PIPES DURING CONSTRUCTION AND UNTIL 90% OF VEGETATION IS ESTABLISHED.
- MANHOLES, CATCH BASINS, INLETS, BEDDING AND TRENCH BACKFILL SHALL CONFORM TO THE CONSTRUCTION DETAILS, STANDARD SPECIFICATIONS AND ISPE SPECIFICATIONS.

EARTHWORK

- ALL AREAS SHALL BE CLEARED AND TILLED IN PREPARATION TO RECEIVE SEED. REFER TO SPECIFICATIONS FOR REQUIREMENTS.
- THE TRADE CONTRACTOR SHALL APPLY FERTILIZER AND SEED TO ALL DISTURBED AREAS, AS NOTED ON THE CONSTRUCTION DRAWINGS. TRADE CONTRACTOR SHALL APPLY FERTILIZER AND SEED USING THE HYDROSEED METHOD. FERTILIZER AND SEED QUANTITIES AND SEEDING PROCEDURES SHALL CONFORM TO THE SPECIFICATIONS.
- THE TRADE CONTRACTOR WILL INSPECT THE SEEDED AREAS AFTER SEEDING. TO RECEIVE FINAL ACCEPTANCE, SEEDED AREAS MUST SUPPORT DENSE, THRIVING GRASSES SUFFICIENT TO PROTECT THE SOIL FROM EROSION IN A MODERATE RAINFALL AREAS THAT, IN THE OPINION OF THE OWNER & ENGINEER, DO NOT MEET THIS REQUIREMENT. MUST BE IMMEDIATELY RESEDED. REFER TO SPECIFICATIONS FOR ALL REQUIREMENTS.
- TOPSOIL FOR RESTORATION AREAS SHALL COMPLY WITH THE STANDARD SPECIFICATIONS. TOPSOIL MAY BE SALVAGED FROM THE SITE AND STOCKPILED FOR REUSE WHEN ALL WORK IS COMPLETED. ADDITIONAL TOPSOIL REQUIRED TO COMPLETE THE JOB SHALL BE OBTAINED FROM OFF-SITE SOURCES AT THE TRADE CONTRACTOR'S EXPENSE. SALVAGED TOPSOIL SHALL BE SUBJECT TO THE ENGINEER'S APPROVAL AND WILL BE REJECTED IF NOT CLEAN, UNCONTAMINATED MATERIAL.
- THE CROWNS AND ROOT OF TREES WHICH ARE TO BE PRESERVED IN THE PROJECT AREA, BUT WHICH COULD BE NEGATIVELY AFFECTED DURING THE CONSTRUCTION PROCESS, SHALL BE PRUNED BY A QUALIFIED ARBORIST ACCORDING TO THE TREE PRUNING STANDARDS SET BY ANSI Z100 CODE.
- POROUS GRANULAR EMBANKMENT, SUBGRADE
THIS WORK CONSISTS OF FURNISHING, PLACING, AND COMPACTING POROUS GRANULAR MATERIAL AS DIRECTED BY THE ENGINEER. POROUS GRANULAR EMBANKMENT SHALL CONSIST OF CA-1 AGGREGATE CAPPED WITH A 3 INCHES NOMINAL THICKNESS TOP LIFT OF CA-6 CAPPING AGGREGATE. THE MATERIAL SHALL BE USED AS A BRIDGING LAYER OVER SOFT, PUMPY, AND LOOSE SOIL AND SHALL CONFORM.
THE POROUS GRANULAR MATERIAL SHALL BE PLACED IN ONE LIFT WHEN THE TOTAL THICKNESS TO BE PLACED IS 2 FEET OR LESS OR AS DIRECTED BY THE ENGINEER. EACH LIFT OF THE POROUS GRANULAR MATERIAL SHALL BE ROLLED WITH A VIBRATORY ROLLER MEETING THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS TO OBTAIN THE DESIRED KEYING OR INTERLOCK AND COMPACTION. THE ENGINEER SHALL VERIFY THAT ADEQUATE KEYING HAS BEEN OBTAINED.
CONSTRUCTION EQUIPMENT NOT NECESSARY FOR THE COMPLETION OF THE REPLACEMENT MATERIAL WILL NOT BE ALLOWED ON THE UNDERCUT AREAS UNTIL COMPLETION OF THE RECOMMENDED THICKNESS OF THE POROUS GRANULAR EMBANKMENT/SUBGRADE.
FULL DEPTH SUBGRADE UNDERCUT SHOULD OCCUR AT LIMITS DETERMINED BY THE ENGINEER. A TRANSITION SLOPE TO THE FULL DEPTH OF UNDERCUT SHALL BE MADE OUTSIDE OF THE UNDERCUT LIMITS AT A TAPER OF 1 FOOT LONGITUDINAL PER 1 INCH DEPTH BELOW THE PROPOSED SUBGRADE OR BOTTOM OF THE PROPOSED AGGREGATE SUBGRADE WHEN INCLUDED IN THE CONTRACT.

THIS WORK WILL BE MEASURED FOR PAYMENT IN ACCORDANCE THE STANDARD SPECIFICATIONS. WHEN SPECIFIED ON THE CONTRACT, THE THEORETICAL ELEVATION OF THE BOTTOM OF THE AGGREGATE, SUBGRADE SHALL BE USED TO DETERMINE THE UPPER LIMIT OF POROUS GRANULAR EMBANKMENT, SUBGRADE. THE VOLUME WILL BE COMPUTED BY THE METHOD OF AVERAGE END AREAS.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR POROUS GRANULAR EMBANKMENT, SUBGRADE WHICH PRICE SHALL INCLUDE THE CAPPING AGGREGATE, WHEN REQUIRED.

THE POROUS GRANULAR EMBANKMENT, SUBGRADE SHALL BE USED AS FIELD CONDITIONS WARRANT AT THE TIME OF CONSTRUCTION.

7. SPECIAL EXCAVATION
WORK UNDER THIS ITEM SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS EXCEPT AS HEREIN MODIFIED.

SPECIAL EXCAVATION SHALL INCLUDE THE SATISFACTORY REMOVAL AND OFF-SITE DISPOSAL OF ALL UNSUITABLE MATERIAL BELOW THE SUBGRADE ELEVATION.

AFTER EXCAVATING TO THE REQUIRED SUBGRADE LEVEL, THE ENGINEER & GEOTECH ENGINEER SHALL INSPECT THE SUBGRADE. PRIOR TO PLACING ANY PAVEMENT SECTION MATERIAL THE EXCAVATION LEVEL OR SUBGRADE LEVEL SHALL BE COMPACTED AND, WHERE POSSIBLE, PROOF ROLLED WITH A 40,000 LB TANDEM AXLE TRUCK BY MAKING AT LEAST 4 PASSES. THE COMPACTING AND PROOF ROLLING WILL DETECT SOFT OR UNSUITABLE POCKETS OF MATERIAL WHICH SHALL BE REMOVED AND REPLACED AS HEREIN SPECIFIED. THE COMPACTING AND PROOF ROLLING SHALL BE INCIDENTAL TO THE WORK AND NO ADDITIONAL COMPENSATION WILL BE PAID.

IF THE EXISTING SUBGRADE SOIL IS NOT SUITABLE FOR PROVIDING AN IER SOIL SUPPORT VALUE OF 2, THE TRADE CONTRACTOR SHALL REMOVE THE UNSUITABLE SUBGRADE SOIL BELOW THE PROPOSED SUBGRADE LEVEL TO A DEPTH AS DIRECTED BY THE ENGINEER, COMPACT AND PROOF ROLL THE EXCAVATED AREA. IF UPON PROOF ROLLING THE SUBGRADE IS STILL UNSUITABLE, ADDITIONAL EXCAVATION MAY BE REQUIRED. NO ADDITIONAL COMPENSATION WILL BE MADE REGARDLESS OF THE NUMBER OF TIMES THE AREA IS COMPACTED AND PROOF ROLLED.

CA-1 SHALL BE USED TO BRING THE SUBGRADE TO THE PROPOSED ELEVATION AS INDICATED UNDER THE ITEM POROUS GRANULAR EMBANKMENT, SUBGRADE. POROUS GRANULAR EMBANKMENT, SUBGRADE IS NOT CONSIDERED PART OF THIS ITEM.

THOSE AREAS OF SUBGRADE WHICH ARE NOT OVER EXCAVATED SHALL ALSO BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.

SPECIAL EXCAVATION AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER WILL BE MEASURED FOR PAYMENT IN PLACE AND THE VOLUME IN CUBIC YARDS COMPUTED BY THE METHOD OF AVERAGE END AREAS. EXCAVATION IN EXCESS OF THAT AUTHORIZED SHALL NOT BE MEASURED FOR PAYMENT.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT CUBIC YARD FOR SPECIAL EXCAVATION, WHICH PRICE SHALL INCLUDE ALL COSTS ASSOCIATED WITH UNSUITABLE MATERIAL REMOVAL AND LEGAL DISPOSAL, GRADING COMPACTING AND PROOF ROLLING OF SUBGRADE.

8. THE OWNER IS REQUIRED TO HAVE A GEOTECHNICAL ENGINEER ON-SITE TO MONITOR EARTHWORK, AND THE GRADING ACTIVITY, IN ORDER TO IDENTIFY UNSUITABLE SOILS FOR REMOVAL FROM THE SITE. CONTRACTOR TO ENSURE REQUIREMENTS ARE MET.

MWRD GENERAL NOTES

A. REFERENCED SPECIFICATIONS

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING, EXCEPT AS MODIFIED HEREIN OR ON THE PLANS:
 - STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (DOT SS)
 - STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION (SSWS) FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION
 - STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION (SSWS) FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION
 - VILLAGE OF ORLAND PARK MUNICIPAL CODE.
 - VILLAGE OF ORLAND PARK WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRD) WATERSHED MANAGEMENT ORDINANCE AND TECHNICAL GUIDANCE MANUAL.
- IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION.

B. NOTIFICATIONS

- THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-288-4055 OR SEND EMAIL NOTIFICATION WITH PROJECT NAME, LOCATION AND PERMIT NUMBER TO MAWRD@MWRD.ORG).
- THE VILLAGE OF ORLAND PARK ENGINEERING DEPARTMENT AND PUBLIC MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO EACH PHASE OF WORK. CONTRACTOR SHALL DETERMINE ITEMS REQUIRING INSPECTION PRIOR TO START OF CONSTRUCTION OR EACH PHASE OF WORK.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE EXACT LOCATIONS OF UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION. IF EXISTING UTILITIES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED. CALL J.U.L.I.E. AT 1-800-892-0123.

C. GENERAL NOTES

- ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). CONVERSION FACTOR IS _____
- MWRD, THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.
- THE CONTRACTOR(S) SHALL INDEMNIFY THE OWNER, ENGINEER, MUNICIPALITY, MWRD, AND THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, OR TESTING OF THIS WORK ON THE PROJECT.
- THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY MWRD AND THE MUNICIPALITY UNLESS CHANGES ARE APPROVED BY MWRD, THE MUNICIPALITY, OR AUTHORIZED AGENT. THE CONSTRUCTION DETAILS, AS PRESENTED ON THE PLANS, MUST BE CONSIDERED THE PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THE IMPROVEMENTS INDICATED ON THE PLANS.
- THE LOCATION OF VARIOUS UNDERGROUND UTILITIES WHICH ARE SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. VERIFY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING THE CONSTRUCTION OPERATIONS.
- ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC. DAMAGED DURING CONSTRUCTION OPERATIONS AND NOT CALLED FOR TO BE REMOVED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY, MWRD, AND OWNER.
- THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.
- ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.
- RECORD DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS UNDERGROUND IMPROVEMENTS ARE COMPLETED. FINAL PAYMENTS TO THE CONTRACTOR SHALL BE HELD UNTIL THEY ARE RECEIVED. ANY CHANGES IN LENGTH, LOCATION OR ALIGNMENT SHALL BE SHOWN IN RED. ALL WYES OR BENDS SHALL BE LOCATED FROM THE DOWNSTREAM MANHOLE. ALL VALVES, 6-BOWES, TEES OR BENDS SHALL BE TIED TO A FIRE HYDRANT.

D. SANITARY SEWER

- THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWER.
- A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER CONNECTION PRIOR TO COMMENCING ANY SEWER CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL REMOVAL IS AUTHORIZED BY THE MUNICIPALITY AND/OR MWRD AFTER THE SEWERS HAVE BEEN TESTED AND ACCEPTED.
- DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OF LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL FROM THE MUNICIPALITY OR MWRD.
- ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).
- ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
- ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.
- ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO THE FOLLOWING:

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
VITRIFIED CLAY PIPE	ASTM C-700	ASTM C-425
REINFORCED CONCRETE SEWER PIPE	ASTM C-76	ASTM C-443
CAST IRON SOIL PIPE	ASTM A-714	ASTM C-564
DUCTILE IRON PIPE	ANSI A21.51	ANSI A21.11
POLYVINYL CHLORIDE (PVC) PIPE		
6-INCH TO 15-INCH DIAMETER SDR 26	ASTM D-2034	ASTM D-3212
18-INCH TO 24-INCH DIAMETER SDR 35	ASTM D-2746	ASTM D-3139
HIGH DENSITY POLYETHYLENE (HDPE)	ASTM D-3350	ASTM D-3261F-2620 (HEAT FUSION)
WATER MAIN QUALITY PVC	ASTM D-3035	ASTM D-3212F-477 (GASKETED)
4-INCH TO 36-INCH	ASTM D-2241	ASTM D-3139
18-INCH TO 12-INCH	AWWA C905	ASTM D-3139
14-INCH TO 48-INCH	AWWA C905	ASTM D-3139

THE FOLLOWING MATERIALS ARE ALLOWED ON A QUALIFIED BASIS SUBJECT TO DISTRICT REVIEW AND APPROVAL PRIOR TO PERMIT ISSUANCE. A SPECIAL CONDITION WILL BE ADDED TO THE PERMIT WHEN THE PIPE MATERIAL BELOW IS USED FOR SEWER CONSTRUCTION OR A CONNECTION IS MADE.

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
POLYPROPYLENE (PP) PIPE		
12-INCH TO 24-INCH DOUBLE WALL	ASTM F-2736	D-3212, F-477
30-INCH TO 60-INCH TRIPLE WALL	ASTM F-2764	D3212, F-477

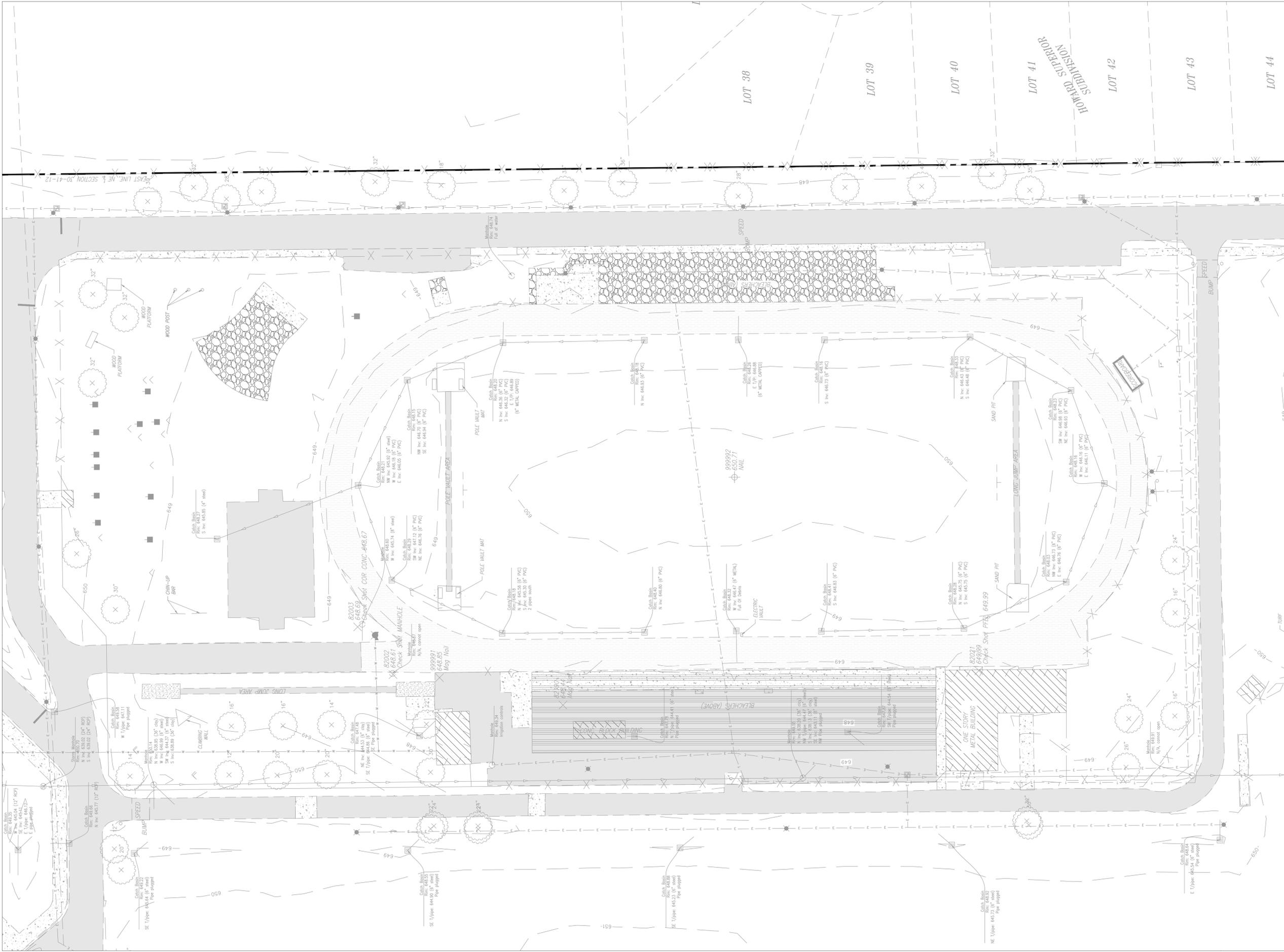
- NON-SHAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR PIPE MATERIALS.
- ALL MANHOLES SHALL BE PROVIDED WITH BOLTED, WATERHOOT COVERS. SANITARY LIDS SHALL BE CONSTRUCTED WITH A CONCEALED PICKHOLE AND WATERPROOF GASKET WITH THE WORD "GASKET" CAST INTO THE LID.
- WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
 - SEWER MAIN BY PROPER TOOLS (SEWER-TAP MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUBWYE SADDLE OR HUB-TEE SADDLE.
 - REMOVE AN ENTIRE SECTION OF PIPE (BREAKING INTO THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
 - REMOVE AN ENTIRE SECTION OF PIPE (BREAKING INTO THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION. THE PERMITEE SHALL ENSURE THAT THE ENTIRE SECTION OF PIPE IS FULLY INSERTED AND PROPERLY FITTING. USING "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.
- WHENEVER A SANITARY COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. IF THE MINIMUM HORIZONTAL DISTANCE IS 10 FEET BETWEEN SANITARY COMBINED SEWERS AND WATERMANS SHALL BE MAINTAINED UNLESS, THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION OR THE SEWER IS LAID AT THE SAME TRENCH AS THE WATERMAIN, BUT AT A DEPTH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS OR IT SHALL BE ENCASED WITH A WATER MAIN QUALITY CARRIER PIPE WITH THE ENDS SEALED.
- ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.
- ALL SANITARY MANHOLES (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.
- ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE PRECAST RUBBER BOOTS THAT CONFORM TO ASTM C-923 FOR ALL PIPE CONNECTIONS. PRECAST SECTIONS SHALL CONSIST OF MODIFIED GROOVE TONGUE AND RUBBER GASKET TYPE JOINTS.
- ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG.
- EXCEPT FOR FOUNDATION/RETAINING WALLS OR PRECASTED RINGS ASSOCIATED WITH VOLUME CONTROL FACILITIES, DRAIN TILES/FIELD TILES/UNDERDRAINS/PERFORATED PIPES ARE NOT ALLOWED TO BE CONNECTED TO OR TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS OR STORM SEWERS. TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS OR STORM SEWERS SHALL BE PLUGGED OR REMOVED, AND ALL EXISTING DRAIN TILES AND PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND SHALL NOT BE TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS OR STORM SEWERS.
- A BACKFLOW PREVENTER IS REQUIRED FOR ALL DETENTION BASINS TRIBUTARY TO COMBINED SEWERS. REQUIRED BACKFLOW PREVENTERS SHALL BE INSPECTED AND EXERCISED ANNUALLY BY THE PROPERTY OWNER TO ENSURE PROPER OPERATION, AND ANY NECESSARY MAINTENANCES SHALL BE PERFORMED TO ENSURE FUNCTIONALITY. THE PERMITEE SHALL ENSURE THAT CLEAN UP AND WASH OUT OF SEWAGE TAKES PLACE WITHIN 48 HOURS OF THE STORM EVENT.

E. EROSION AND SEDIMENT CONTROL

- THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
- EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC DISTURBANCE OF THE SITE.
- ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
 - BEFORE CONSTRUCTION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOIL DISTURBANCE.
 - ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE CO-PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
- A STABILIZED MAT OF BRUSHED STONE MEETING THE STANDARDS OF THE ILLINOIS URBAN MANUAL SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE, SEDIMENT OR SOIL BEING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR DRIVEWAY. THE MAT SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL AND SHALL BE INSTALLED PRIOR TO ANY ON SITE CONSTRUCTION ACTIVITIES INVOLVING EROSION AND SEDIMENT CONTROL. FACILITIES SHALL NOT BE USED AS TEMPORARY SEDIMENT BASINS.
- MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES.
- TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN. VOLUME CONTROL FACILITIES SHALL NOT BE USED AS TEMPORARY SEDIMENT BASINS.
- DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) DAYS.
- ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT).
- VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
- SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN FLOOD PROTECTION AREAS OR SEWER STRIKE AREAS.
- EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL BLANKET.
- STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.
- THE CONTRACTOR SHALL EITHER REMOVE OR REPLACE ANY EXISTING DRAIN TILES AND INCORPORATE THEM INTO THE DRAINAGE PLAN FOR THE DEVELOPMENT. DRAIN TILES CANNOT BE TRIBUTARY TO A SANITARY OR COMBINED SEWER. DRAIN TILES ALLOWED IN COMBINED SEWER AREA FOR GREEN INFRASTRUCTURE PRACTICES.
- IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE SITE INSPECTOR MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMANS AS WELL AS THEIR SERVICES AND OTHER APPURTENANCES. ANY TRENCH DEWATERING, WHICH CONTAINS SEDIMENT SHALL PASS THROUGH A SEDIMENT SETTLING POND OR EQUIVALENT EFFICIENT SEDIMENT CONTAINING POND. ALL SEDIMENT CONTAINING POND TO A SUMP TRIP FILTER BAG OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATERS SHALL NOT BE DISCHARGE TO WATERWAYS, FLOOD PROTECTION AREAS OR THE COMBINED SEWER SYSTEM.
- ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF CONSTRUCTION SHUTDOWN UNTIL PERMANENT STABILIZATION IS ACHIEVED.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.
- THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, SITE INSPECTOR, OR MWRD.

ABBREVIATIONS

A	ARC LENGTH	MH	MANHOLE
B/C	BACK OF CURB	N.D.L	NO DISTURB LINE
B-C/B	BACK-TO-BACK OF CURB	N.I.C	NOT IN CONTRACT
BIT	BITUMINOUS PAVEMENT	N.W.E.	NORMAL WATER ELEVATION
B.L.	BUILDING LINE	P.I.	POINT OF INTERSECTION
BENCH MARK	BENCH MARK	P.R.C.	POINT OF REVERSE CURVATURE
BRW	BOTTOM OF RETAINING WALL	P.L.	PROPERTY LINE
B/W	BACK OF SIDEWALK	P.T.	POINT OF TANGENCY
CHDPE	CORRUGATED HIGH DENSITY POLYETHYLENE PIPE	P.V.	PROPERTY LINE
CO	CLEAN OUT	P.W	POINT OF VERTICAL INTERSECTION
C & G	CURB AND GUTTER	P.G.	PROFILE GRADE
CP	CATCH BASIN	R	RADIUS
C.B.	CATCH BASIN	RCP	REINFORCED CONCRETE PIPE
DWG.	DRAWING	REC.	RECORD DIMENSION
D.I.P.	DUCTILE IRON PIPE	R.O.W.	RIGHT-OF-WAY
DIA.	DIAMETER	RT	RIGHT
DISTANCE	DISTANCE	S	SHEET
DC	DEPRESSED CURB	S	SLOPE
D.E.	DRAINAGE EASEMENT	STA	STATION
D.V.	DETENTION VOLUME	STMH	STORM MANHOLE
DS	DOWNSPOUT	SMH	SANITARY MANHOLE
ELEV./EL.	ELEVATION	T/E	TOP ELEVATION
E/P	EDGE OF PAVEMENT	T.C.	TOP OF CURB
E.J.	EXPANSION JOINT	T.P.	TOP OF PIPE
EX.	EXISTING	T	TELEPHONE
F.G.	FINISH GRADE	T.R.W.	TOP OF RETAINING WALL
F-F	FACE-TO-FACE OF CURB OR STALL	TYP	TYPICAL
F/L	FLOW LINE	U.E.	UTILITY EASEMENT
F.H.	FIRE HYDRANT	V.C.	VERTICAL CURVE
F.E.S.	FLARED END SECTION	V.I.F.	VERIFY IN FIELD
FR	FOUND IRON PIPE	V.I.T.	VERIFIED HUB TILE
F/F	FINISHED FLOOR	V.B.	VALVE BOX
GA	GAS VALVE	V.V.	VALVE VAULT
GF	GRADE AT FOUNDATION	V.C.P.	VERIFIED CLAY PIPE
G.L.	GUTTER LINE	VER.	VERT



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ISSUED FOR BID 12/09/2025

REV	DESCRIPTION	DATE

MAINE TOWNSHIP HS DISTRICT 207

SYNTHETIC TURF FIELD IMPROVEMENTS

MAINE WEST HIGH SCHOOL

1755 SOUTH WOLF ROAD
DES PLAINES, IL 60018

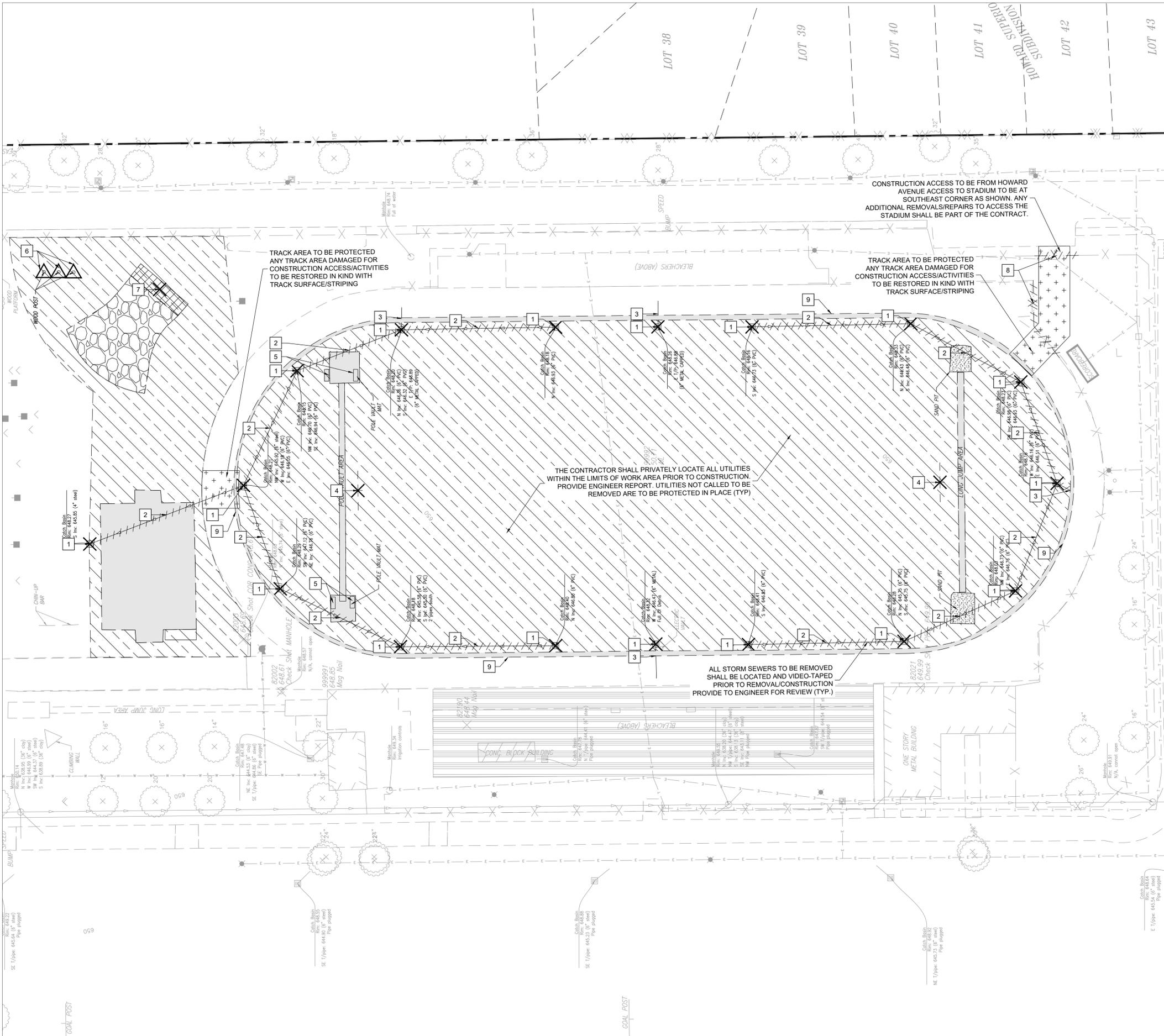
EXISTING CONDITIONS

Project Number: 240173
Scale: 1" = 40'
Drawn By: VO

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LEGEND

- ITEM REMOVAL
- LINEAR ITEM REMOVAL
- ITEM TO BE SALVAGED/RELOCATED
- TREE PROTECTION FENCE
- PROPERTY LINE
- HMA PAVEMENT/TRACK SURFACE AND STONE BASE REMOVAL
- CONCRETE AND STONE BASE REMOVAL
- GRAVEL REMOVAL; SALVAGE GRAVEL FOR REUSE
- SAND REMOVAL; SALVAGE FOR REUSE
- TURF AND TOPSOIL REMOVAL
- STABILIZED CONSTRUCTION ENTRANCE

DEMO KEY NOTES

1	REMOVE EXISTING STORM STRUCTURE
2	REMOVE EXISTING STORM SEWER
3	CUT AND CAP EXISTING STORM SEWER AT LIMITS OF FIELD; CONTRACTOR TO CONFIRM STORM SEWER ROUTING AND REPORT FINDINGS TO ENGINEER PRIOR TO REMOVAL
4	REMOVE EXISTING FOOTBALL GOALPOST AND FOUNDATION
5	REMOVE POLE VAULT PAD AREAS
6	REMOVE EXISTING WOOD POSTS, FOUNDATIONS AND ROPE APPARATUS; SALVAGE POSTS AND ROPE TO OWNER FOR RELOCATION
7	REMOVE EXISTING SHOT PUT TOEBOARDS
8	REMOVE EXISTING FENCE AS NECESSARY FOR CONSTRUCTION ENTRANCE/EXIT
9	SAWCUT EXISTING TRACK

DEMOLITION NOTES

1. CONTRACTOR TO PROTECT ALL EXISTING UTILITIES DURING DEMOLITION & CONSTRUCTION ACTIVITIES, WHETHER SHOWN ON THE PLANS OR NOT, UNLESS OTHERWISE SPECIFIED. ANY RELOCATION, ADJUSTMENTS, CONFLICTS, ETC. SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY. CONTRACTOR TO LOCATE ALL PUBLIC & PRIVATE UTILITIES ON SITE PRIOR TO CONSTRUCTION.
2. ALL EXISTING CURB TO REMAIN UNLESS OTHERWISE SPECIFIED. ANY CURB DAMAGED DURING DEMOLITION SHALL BE REPLACED IN KIND.
3. ALL EXISTING SIGNS & LIGHT POLES TO REMAIN AND BE PROTECTED UNLESS OTHERWISE SPECIFIED. ANY SIGNS RETURNED TO OWNER.
4. ANY UTILITY ADJUSTMENTS, CONFLICTS, RELOCATIONS, ETC. REQUIRED SHALL BE COORDINATED WITH ENGINEER AND UTILITY OWNER/PROVIDER.
5. ALL EXISTING TREES TO REMAIN AND TO BE PROTECTED UNLESS OTHERWISE SPECIFIED.
6. ALL DEMOLITION AND CONSTRUCTION IN THE RIGHT-OF-WAY SHALL BE COORDINATED AND APPROVED BY THE CITY OF DES PLAINES. THE CONTRACTOR IS TO CONTACT THE INSPECTORS AT THE CITY OF DES PLAINES PRIOR TO CONSTRUCTION.
7. COORDINATE ALL ELECTRICAL, CABLE FIBER, ETC. REMOVAL/RELOCATION WITH MEP PLANS. CONTRACTOR SHALL PROTECT ALL EXISTING ELECTRIC SERVICES DURING CONSTRUCTION AND NOTIFY ENGINEER IMMEDIATELY OF ANY CONFLICTS.
8. ALL EXISTING SHRUBS AND LANDSCAPING IN CONFLICT WITH SITE IMPROVEMENTS SHALL BE REMOVED.
9. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY DAMAGED PUBLIC/PRIVATE PROPERTY OR ROADWAY AS A RESULT OF CONSTRUCTION ON THIS SITE. THE RIGHT-OF-WAY MUST BE RESTORED TO EXISTING OR BETTER CONDITION.
10. ITEMS NOTED AS REMOVE AND RELOCATE, SEE LAYOUT PLAN FOR NEW LOCATIONS.



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**MAINE TOWNSHIP HS
DISTRICT 207**

SYNTHETIC TURF FIELD IMPROVEMENTS

MAINE WEST HIGH SCHOOL

1755 SOUTH WOLF ROAD
DES PLAINES, IL 60018

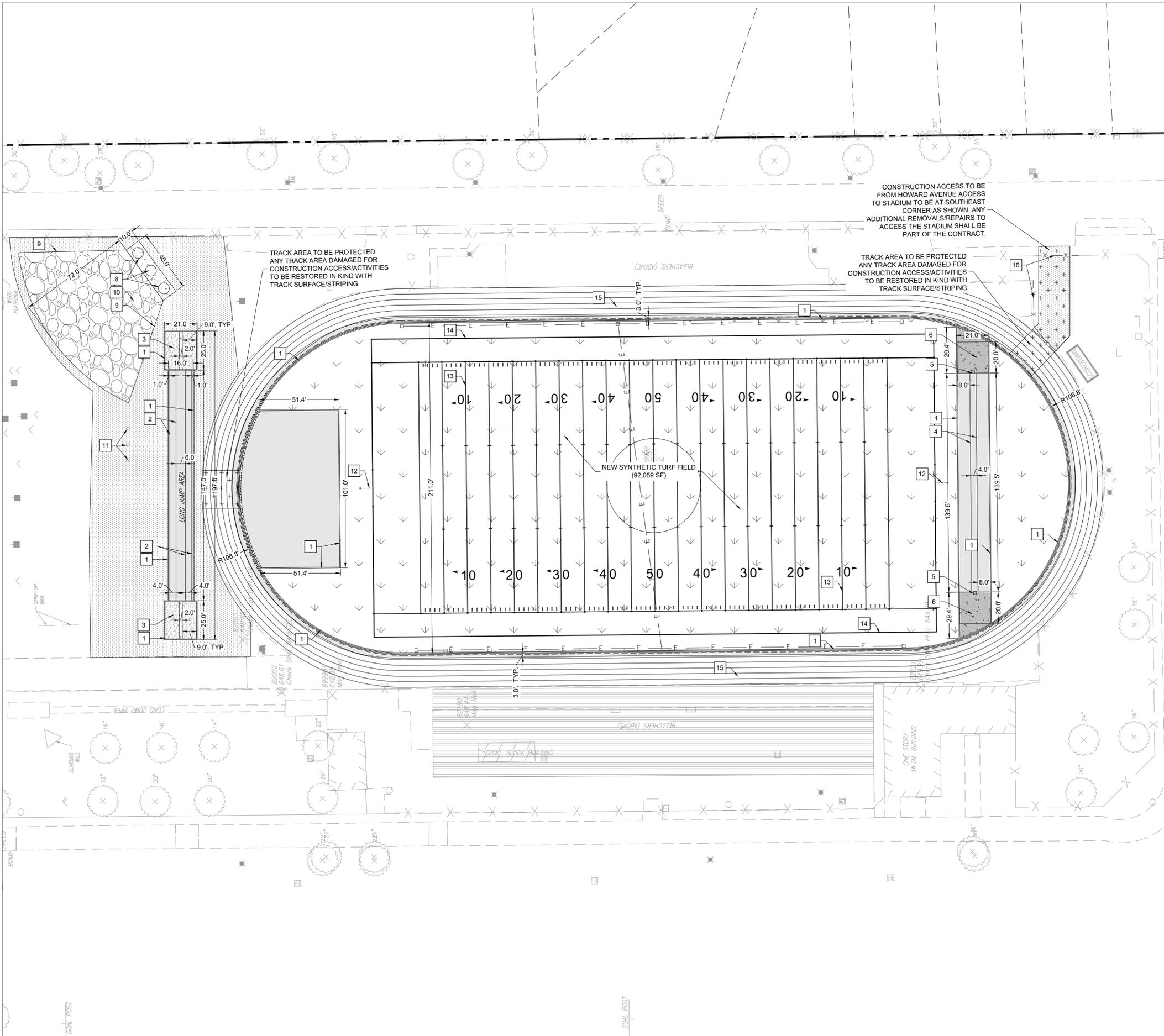
DEMOLITION PLAN

Project Number: 240173
Scale: 1" = 30'
Drawn By: VO

Sheet:



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LEGEND

-  HMA / TRACK SURFACE
-  SYNTHETIC TURF
-  SAND
-  HEAVY DUTY CONCRETE PAVING AND STONE BASE
-  LIMESTONE SCREENINGS
-  NEW SEED AND BLANKET
-  STABILIZED CONSTRUCTION ENTRANCE
-  PROPERTY LINE

SITE KEY NOTES

- | | |
|----|---|
| 1 | 6" WIDE FLUSH CONCRETE CONTAINMENT CURB |
| 2 | LONG JUMP / TRIPLE JUMP STRIPED PER HIGH SCHOOL STANDARDS WITH TAKE-OFF BOARDS |
| 3 | LONG JUMP / TRIPLE JUMP PITS PER HIGH SCHOOL STANDARDS. COVERS INCLUDED W/ TRACK SURFACE |
| 4 | POLE VAULT STRIPED PER HIGH SCHOOL STANDARDS |
| 5 | POLE VAULT BOX WITH COVER/ TRACK SURFACE |
| 6 | CONCRETE PAD FOR POLE VAULT WITH TRACK SURFACE |
| 7 | HIGH JUMP STRIPED PER HIGH SCHOOL STANDARDS |
| 8 | THREE (3) RECESSED RINGS AND TOE BOARDS FOR SHOT PUT ON CONCRETE PAD |
| 9 | METAL EDGING |
| 10 | LIMESTONE SCREENINGS SHOT PUT LANDING AREA |
| 11 | RELOCATED WOOD POSTS, FOUNDATIONS, AND ROPE APPARATUS. CONFIRM EXACT LOCATION WITH OWNER |
| 12 | FOOTBALL GOAL POST WITH ANCHOR SYSTEM |
| 13 | FOOTBALL FIELD STRIPING PER HIGH SCHOOL STANDARDS |
| 14 | SOCCER FIELD STRIPING PER HIGH SCHOOL STANDARDS |
| 15 | ENTIRE TRACK TO BE RE-STRIPED PER IHSA STANDARD. ALL EXISTING STRIPING INCLUDING MAINE WEST LETTERING TO BE INCLUDED. |
| 16 | RESTORE FENCE TO EXISTING CONDITIONS OR BETTER ONCE CONSTRUCTION HAS ENDED |
| 17 | MEASURE LINE |

SITE PLAN NOTES

- INSTALL ALL IMPROVEMENTS IN ACCORDANCE WITH AGENCY REQUIREMENTS. IN CASE OF DISCREPANCY BETWEEN THESE PLANS AND THE AGENCY REQUIREMENTS, THE MOST STRINGENT REQUIREMENTS WILL APPLY.
- ALL EXISTING CURB TO BE REMOVED UNLESS OTHERWISE SPECIFIED.
- ALL DIMENSIONS ARE TO THE BACK OF CURB/EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN. ALL RADII DIMENSIONS ARE TO THE BACK OF CURB/EDGE OF PAVEMENT.
- ALL DISTURBED AREAS ON-SITE AND IN THE RIGHT-OF-WAY SHALL BE RESTORED TO EXISTING CONDITION. ALL ITEMS DISTURBED SHALL BE REPLACED INCLUDING ALL LANDSCAPING, CURB, SIDEWALK, PAVEMENT, ETC.
- ALL EXISTING TREES TO REMAIN AND TO BE PROTECTED UNLESS OTHERWISE NOTED.
- CONTRACTOR TO COORDINATE WITH CITY OF DES PLAINES ON FINAL LOCATIONS OF SIGNS.

LAYOUT NOTE:

- ALL LAYOUT FOR SITE IMPROVEMENTS SHALL BE COMPLETED BY A PROFESSIONAL LAND SURVEYOR HIRED BY THE CONTRACTOR. LAYOUT SHALL BE COMPLETED USING THE ELECTRONIC CAD FILES PROVIDED BY THE ENGINEER.



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MAINE TOWNSHIP HS DISTRICT 207
SYNTHETIC TURF FIELD IMPROVEMENTS

MAINE WEST HIGH SCHOOL
1755 SOUTH WOLF ROAD
DES PLAINES, IL 60018

SITE PLAN

Project Number: 240173
Scale: 1" = 30'
Drawn By: ZM

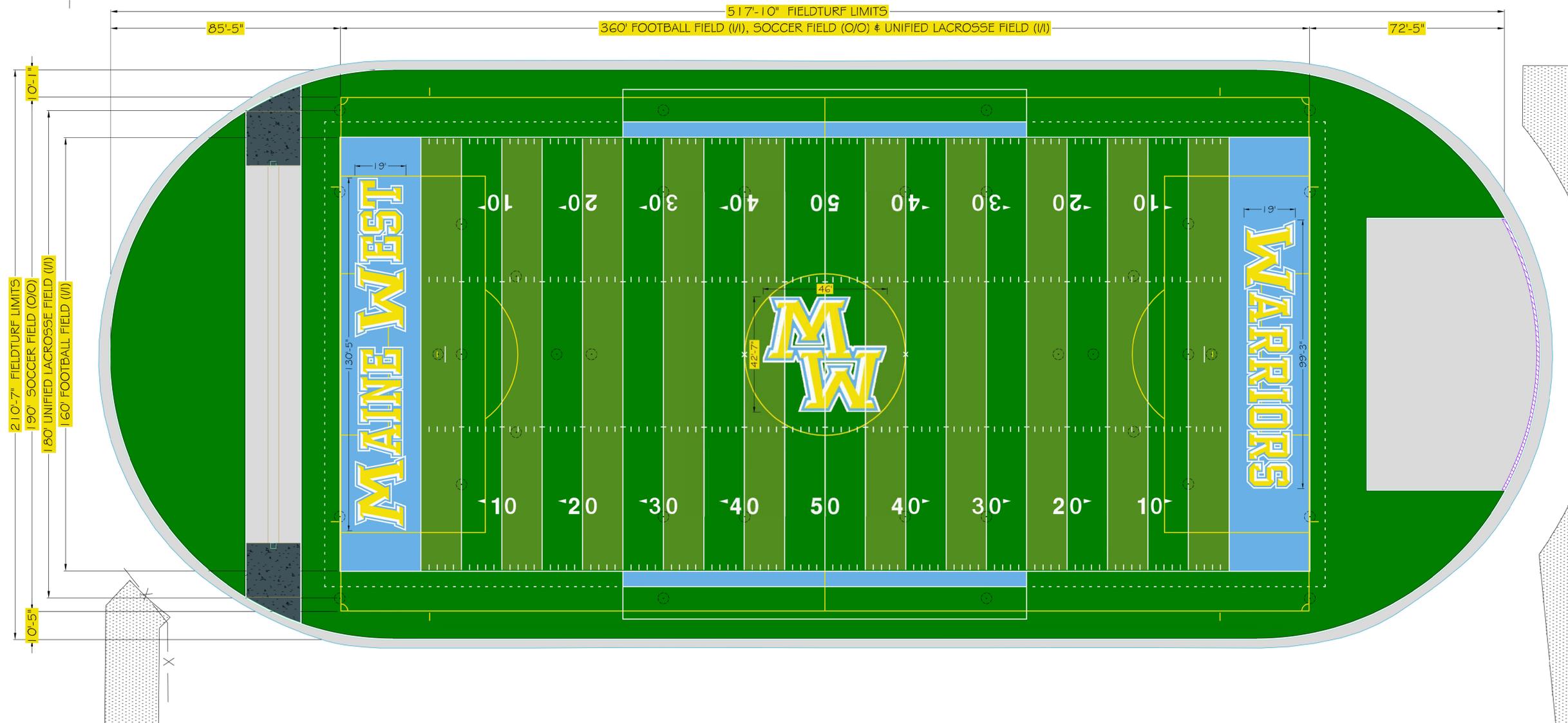
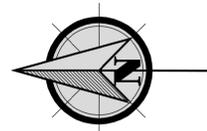
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- SPORT COLORS:**
-  FOOTBALL
COMPLETE COLOR NAME: WHITE / LAGOON BLUE
PANTONE COLOR NUMBER: WHITE / 292C
 -  SOCCER
COMPLETE COLOR NAME: CANARY YELLOW
PANTONE COLOR NUMBER: 136C
 -  UNIFIED LACROSSE TICK MARKS
COMPLETE COLOR NAME: BLACK
PANTONE COLOR NUMBER: BLACK

- END ZONE COLOR:**
-  COMPLETE COLOR NAME: LAGOON BLUE
PANTONE COLOR NUMBER: 292C

- LOGO COLORS:**
-  COMPLETE COLOR NAME: CANARY YELLOW
PANTONE COLOR NUMBER: 136C
 -  COMPLETE COLOR NAME: LAGOON BLUE
PANTONE COLOR NUMBER: 292C
 -  COMPLETE COLOR NAME: WHITE
PANTONE COLOR NUMBER: WHITE

- LEGEND:**
-  FIELD GREEN / SUMMER GREEN FIELDTURF
91,944 sq. ft.

*END-ZONE LOGOS AND CENTER FIELD LOGO TO MATCH MAINE WEST AND SCHOOL DISTRICT FONT AND DESIGN. ALL LETTERS TO BE HAVE SHADOW OUTLINE AND DOUBLE COLOR OUTLINE AS SHOWN.

SHEET C2.0 SITE PLAN SHALL BE USED FOR ALL MEASUREMENTS AND SQUARE FOOTAGE FOR TURF BID. TURF FIELD COLORS, END-ZONES, LOGOS SHALL BE PER SHEET C2.01 AND C2.02 ALTERNATES.

- FIELD LAYOUT NOTES (sports are in order of dominance):**
1. FOOTBALL MARKINGS ARE 4" WHITE / LAGOON BLUE NFHS STANDARDS.
 2. SOCCER MARKINGS ARE 4" CANARY YELLOW NFHS STANDARDS.
 3. UNIFIED LACROSSE TICK MARKS ARE 4" BLACK NFHS STANDARDS.
- FIELD DOMINANCY IS ONLY WITHIN THE FOOTBALL FIELD OF PLAY.
- COLOR DASHED CIRCLES ARE TO INDICATE PLACEMENT OF THE 4" X 4" INLAID TICK MARKS.
- ALL DIMENSIONS TO BE VERIFIED BEFORE ANY CONSTRUCTION BEGINS.

NFHS STANDARDS



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**MAINE TOWNSHIP HS
DISTRICT 207
SYNTHETIC TURF FIELD IMPROVEMENTS**

MAINE WEST HIGH SCHOOL
1755 SOUTH WOLF ROAD
DES PLAINES, IL 60018

**ALTERNATE 1: ARTIFICIAL
TURF SYSTEM**

Project Number: 240173
Scale: 

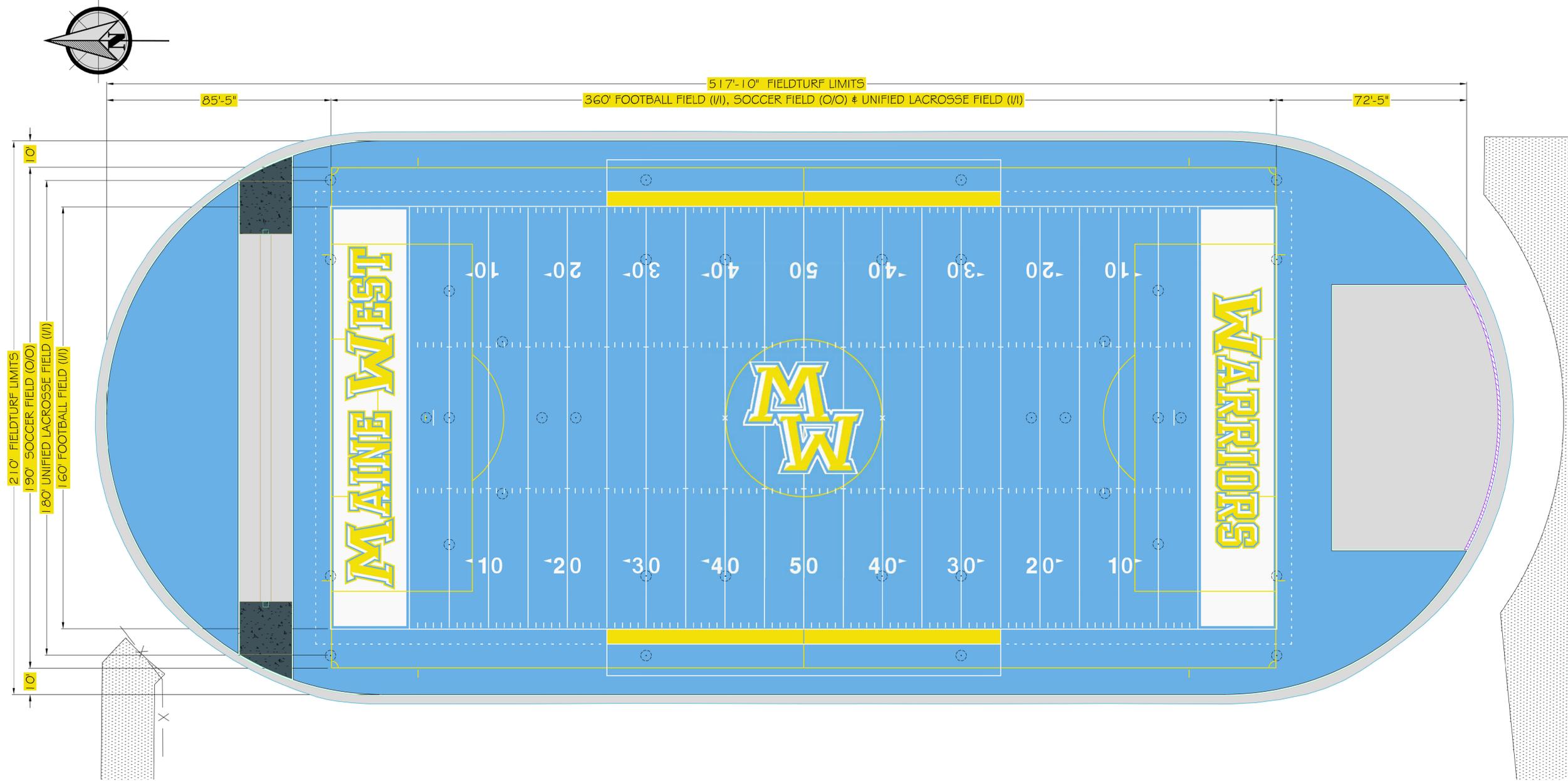
Drawn By:
ZM



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- SPORT COLORS:**
- FOOTBALL
COMPLETE COLOR NAME: WHITE / CANARY YELLOW
PANTONE COLOR NUMBER: WHITE / 136C
 - SOCCER
COMPLETE COLOR NAME: CANARY YELLOW / LAGOON BLUE
PANTONE COLOR NUMBER: 136C / 292C
 - UNIFIED LACROSSE TICK MARKS
COMPLETE COLOR NAME: BLACK
PANTONE COLOR NUMBER: BLACK
- END ZONE COLOR:**
- COMPLETE COLOR NAME: WHITE
PANTONE COLOR NUMBER: WHITE

- LOGO COLORS:**
- COMPLETE COLOR NAME: LAGOON BLUE
PANTONE COLOR NUMBER: 292C
 - COMPLETE COLOR NAME: CANARY YELLOW
PANTONE COLOR NUMBER: 136C
 - COMPLETE COLOR NAME: WHITE
PANTONE COLOR NUMBER: WHITE
- *END-ZONE LOGOS AND CENTER FIELD LOGO TO MATCH MAINE WEST AND SCHOOL DISTRICT FONT AND DESIGN. ALL LETTERS TO BE HAVE SHADOW OUTLINE AND DOUBLE COLOR OUTLINE AS SHOWN.
- *BLUE TURF COLOR MUST BE LAGOON BLUE PANTONE COLOR 292C

LEGEND:

- LAGOON BLUE FIELDTURF
91,944 sq. ft.

SHEET C2.0 SITE PLAN SHALL BE USED FOR ALL MEASUREMENTS AND SQUARE FOOTAGE FOR TURF BID. TURF FIELD COLORS, END-ZONES, LOGOS SHALL BE PER SHEET C2.01 AND C2.02 ALTERNATES.

- FIELD LAYOUT NOTES (sports are in order of dominance):**
1. FOOTBALL MARKINGS ARE 4" WHITE / CANARY YELLOW NFHS STANDARDS.
 2. SOCCER MARKINGS ARE 4" CANARY YELLOW / LAGOON BLUE NFHS STANDARDS.
 3. UNIFIED LACROSSE TICK MARKS MARKINGS ARE 4" BLACK NFHS STANDARDS.
- FIELD DOMINANCY IS ONLY WITHIN THE FOOTBALL FIELD OF PLAY.
- COLOR DASHED CIRCLES ARE TO INDICATE PLACEMENT OF THE 4" X 4" INLAID TICK MARKS.
- ALL DIMENSIONS TO BE VERIFIED BEFORE ANY CONSTRUCTION BEGINS.

NFHS STANDARDS



MAINE TOWNSHIP HS
DISTRICT 207

Wight

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REV	DESCRIPTION	DATE
	ISSUED FOR BID	12/09/2025

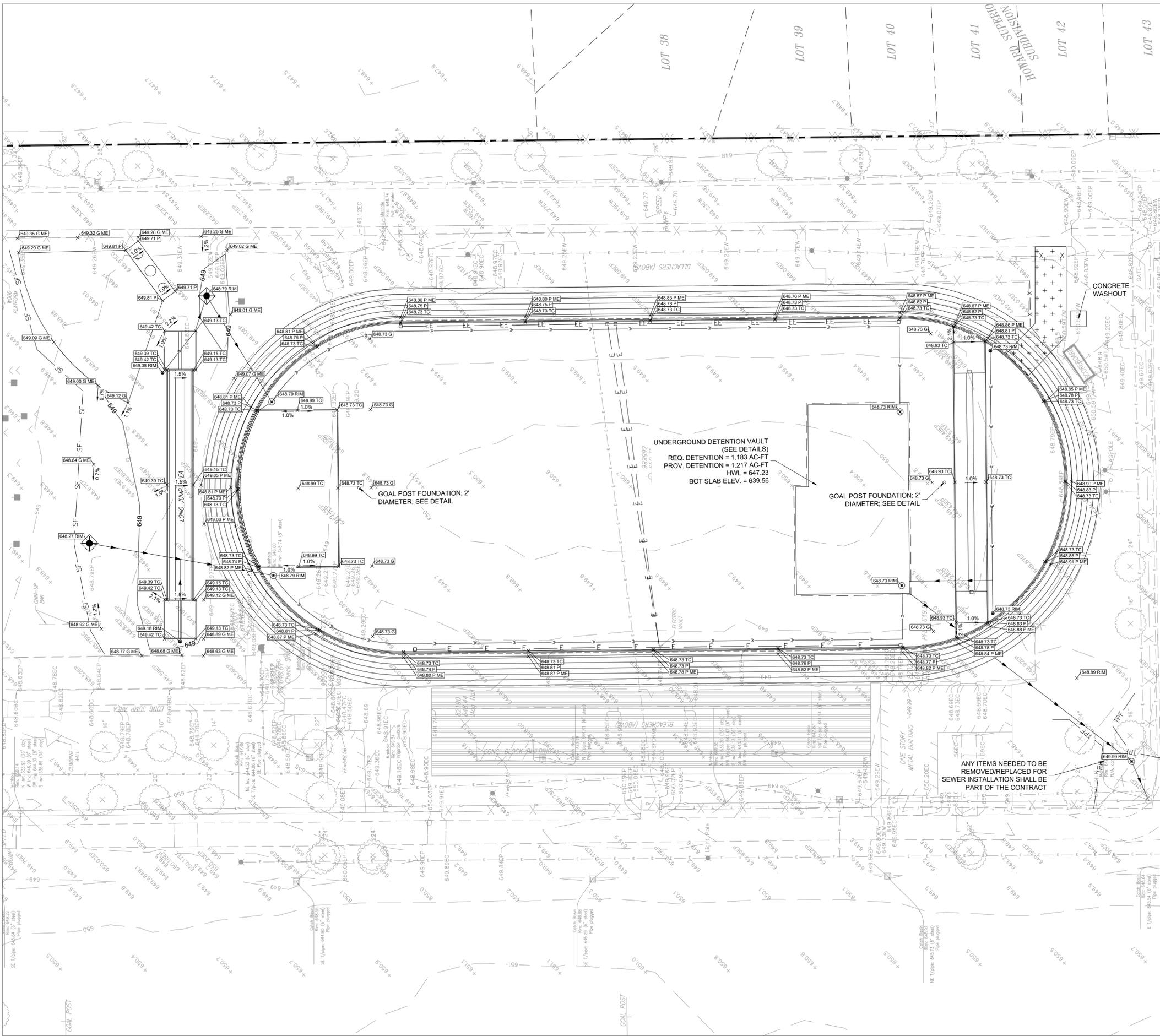
**MAINE TOWNSHIP HS
DISTRICT 207**
SYNTHETIC TURF FIELD IMPROVEMENTS
MAINE WEST HIGH SCHOOL
1755 SOUTH WOLF ROAD
DES PLAINES, IL 60018

**ALTERNATE 2: ARTIFICIAL
TURF SYSTEM**

Project Number: 240173
Scale:

Drawn By: ZM
Sheet: **C2.02**

NORTH



LEGEND

- ME MATCH EXISTING ELEVATION
- HP HIGH POINT
- (11.77 G) TOP OF PAVEMENT ELEVATION
- (11.77 G) GROUND ELEVATION
- (11.77 RIM) RIM ELEVATION
- 745 EXISTING CONTOUR LINE
- 745 PROPOSED CONTOUR LINE
- 2.0% SLOPE/FLOW DIRECTION
- OVERLAND FLOW ROUTE
- CATCH BASIN
- MANHOLE
- SF SILT FENCE
- TPF TREE PROTECTION FENCE
- DROP INLET PROTECTION
- STABILIZED CONSTRUCTION ENTRANCE

- ### NOTES:
- CONTRACTOR TO VERIFY ALL EXISTING UTILITY LOCATIONS, SIZES, SLOPES, INVERTS, ETC. AND CONTACT ENGINEER IMMEDIATELY IF THERE ARE ANY CONFLICTS/DISCREPANCIES.
 - CONTRACTOR TO COORDINATE LOCATIONS, SIZE AND INVERTS WITH MEP PLANS.
 - THE CONTRACTOR SHALL PROTECT ANY AND ALL TREES EITHER SHOWN OR NOT SHOWN ON THE PLANS UNLESS OTHERWISE SPECIFIED. MINIMUM PROTECTION FOR TREES SHALL BE 4" SNOW FENCE INSTALLED ALONG THE DRIP LINE OF TREES.
 - CONTRACTOR TO PROTECT ALL EXISTING UTILITIES. ALL EXISTING UTILITY STRUCTURES SHALL BE ADJUSTED AS NECESSARY TO MATCH FINISH GRADE. ALL EXISTING UTILITY STRUCTURES REQUIRING ADJUSTMENT OR RECONSTRUCTION SHALL BE COMPLETED BY THE CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER. ADJUSTMENTS AND/OR RECONSTRUCTIONS NOT CALLED FOR ON THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. NO MORE THAN A TOTAL OF 12 INCHES OF ADJUSTING RINGS AND/OR 2 ADJUSTING RINGS SHALL BE ALLOWED.
 - ALL SITE WORK SHALL BE IN CONFORMANCE WITH THE ILLINOIS ACCESSIBILITY CODE AND WITH THE AMERICANS WITH DISABILITIES ACT.
 - RAMPS SHALL NOT EXCEED A RUNNING SLOPE OF 1:12 (8.33%).
 - MAXIMUM CROSS-SLOPE ON ANY WALK OR RAMPS SHALL BE 2%. ALL ACCESSIBLE PARKING SPACES AND LOADING ZONES SHALL HAVE A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.
 - SEE SWPPP PLAN FOR ALL EROSION AND SEDIMENT CONTROL NOTES, STANDARDS, INSPECTIONS, MAINTENANCE AND PRACTICES THAT NEED TO BE FOLLOWED.

GEOTECH NOTES:

FOLLOW ALL RECOMMENDATIONS, REQUIREMENTS, REMEDIATION, ETC. AS SPECIFIED IN THE "SURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING REPORT" PROVIDED BY ECS MIDWEST LLC. ANY DISCREPANCIES BETWEEN THE REPORTS, NOTES AND SPECIFICATIONS, THE MORE STRINGENT SHALL APPLY.

EARTHWORK NOTES:

CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXACT EARTHWORK REQUIREMENTS (CUT, FILL, HAUL, INVOFF, ETC.) TO BRING SITE TO FINISHED GRADE. ANY ON-SITE RE-USE OF ON-SITE DEMOLITION DEBRIS/MATERIALS MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER.

AS-BUILT NOTES:

THE CONTRACTOR IS RESPONSIBLE FOR ALL AS-BUILT SURVEYS. ALL AS-BUILT SURVEYS SHALL BE COMPLETED BY A PROFESSIONAL LAND SURVEYOR AND BE SIGNED AND SEALED. THE CONTRACTOR SHALL SUBMIT TWO SETS OF THE "AS-BUILT" FINAL ENGINEERING DRAWINGS (I.E. RECORD DRAWINGS) AND STORMWATER MANAGEMENT CALCULATIONS UPON COMPLETION OF IMPROVEMENTS AND INCLUDE ELECTRONIC CAD FILES. THE RECORD DRAWINGS SHOULD AT LEAST INCLUDE THE FOLLOWING INFORMATION: AS-BUILT DETENTION CONTOURS, ELEVATIONS (INCLUDING DETENTION BASIN TOP OF BERM AND OVERFLOW WEIR GRADES) AND VOLUME (VERIFIED, SIGNED, & SEALED BY A PROFESSIONAL ENGINEER (PE) OR PROFESSIONAL LAND SURVEYOR (PLS)); ELEVATION, AND LOCATION (TIES TO TWO POINTS) OF ALL NEW STRUCTURES INCLUDING FIRE HYDRANTS, VALVE BOXES AND VAULTS, LINES TOP SLEEVES, WATER SERVICE CORPORATION STOPS, WATER MAIN FITTINGS/BENDS, MANHOLES, SANITARY SERVICE WYES (MEASURED FROM DOWNSTREAM MANHOLE), ALL STORM/SANITARY SEWER STRUCTURES (INCLUDING INVERTS AND PIPE SIZES), ALL PIPES (LOCATIONS, SLOPES, LENGTHS, ETC.), OUTLET CONTROL STRUCTURES INCLUDING RESTRICTOR SIZES AND ELEVATIONS PLUS TOP OF WALL) AND ABANDONED WATER OR SANITARY SERVICE LINES. DETAILED TOPOGRAPHIC SURVEY OF ALL HIGH POINTS, LOW POINTS, CHANGE OF SLOPE INCLUDING GUTTER GRADES, TOP OF CURB GRADES, PAVEMENT GRADES, SIDEWALK GRADES, RAMP GRADES, ETC. TO VERIFY POSITIVE DRAINAGE. ALL ELEVATIONS SHOULD BE REFERENCED TO THE SAME BENCHMARK DATUM AS THE ORIGINAL DESIGN PLANS. HORIZONTAL TIES SHALL BE REFERENCED TO LOT LINES, BACK OF CURB, OR PROPERTY CORNERS. WITHIN DETENTION/BMP AREAS, FOR VERIFICATION OF DETENTION VOLUME AND SUBBASE GRADES, PRIOR TO BACK FILLING WITH CA-7, THE CONTRACTOR SHALL PROVIDE ENGINEER WITH A CERTIFIED TOPO SURVEY OF AS-BUILT SUBBASE GRADES FOR ENGINEER APPROVAL AND ALSO A COPY OF RECEIPT OF THE CA-7 AGGREGATE.



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MAINE TOWNSHIP HS DISTRICT 207 SYNTHETIC TURF FIELD IMPROVEMENTS

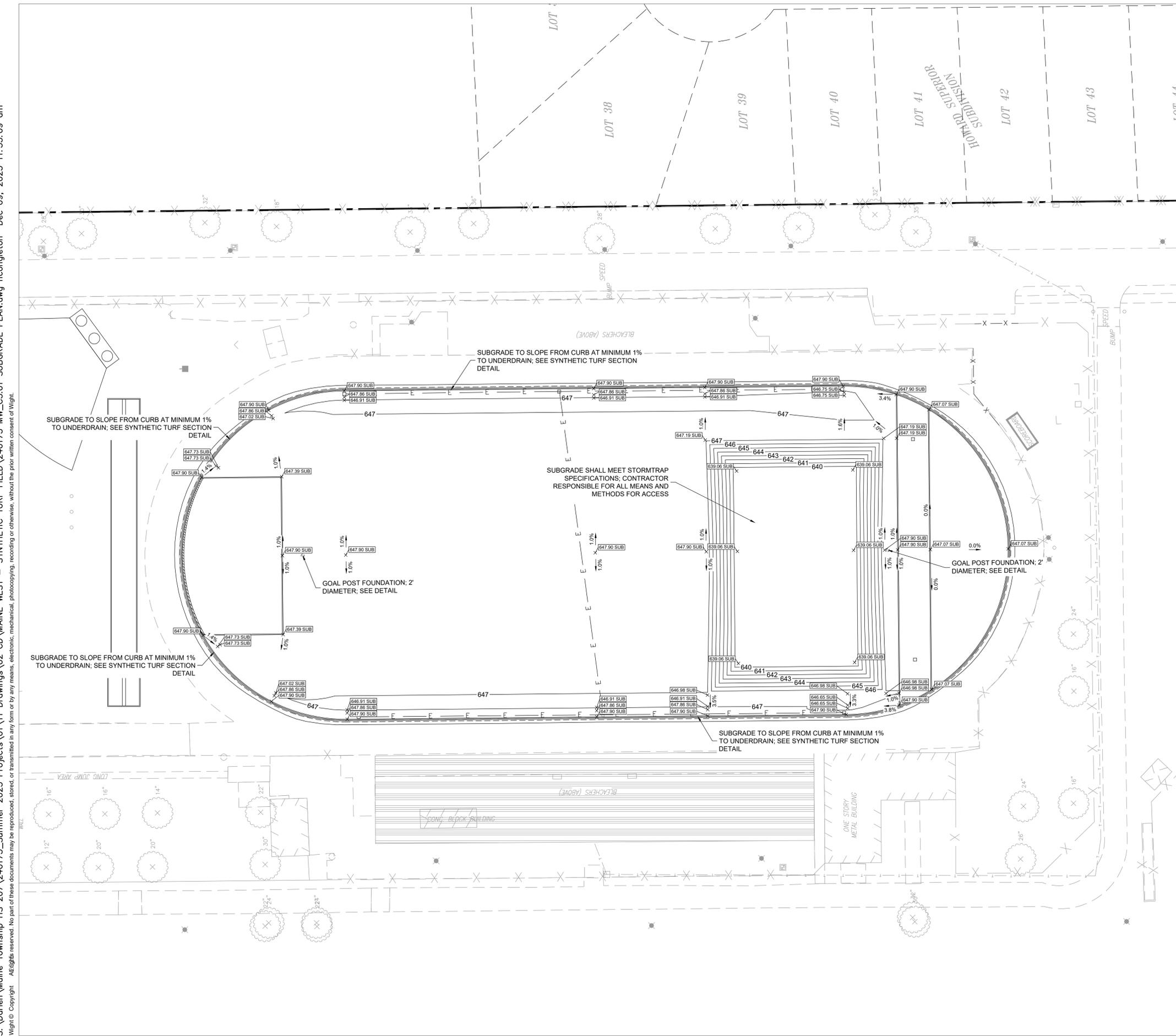
MAINE WEST HIGH SCHOOL
1755 SOUTH WOLF ROAD
DES PLAINES, IL 60018

GRADING AND EROSION CONTROL PLAN

Project Number: 240173
Scale: 1" = 30'
Drawn By: ZM



S:\Darien\Maine Township HS 207\240173_Summer 2025 Projects\01\11 Drawings\02 CD MAINE WEST - SYNTHETIC TURF FIELD 240173 MW_C3.01 SUBGRADE PLAN.dwg hcongleton Dec 09, 2025 11:53:09 am



LEGEND

- SUBGRADE ELEVATION
- PROPOSED CONTOUR LINE
- SLOPE/FLOW DIRECTION

NOTES:

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SYNTHETIC TURF FIELD IMPROVEMENTS**

MAINE WEST HIGH SCHOOL
1755 SOUTH WOLF ROAD
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SUBGRADE GRADING PLAN

Project Number: 240173
Scale: 1" = 30'
Drawn By: ZM

Sheet:



C3.01

CONTRACTOR IS REQUIRED TO COMPLETE ALL SWPPP INSPECTIONS, INSPECTION SHALL BE COMPLETED BY A QUALIFIED INSPECTOR MEETING IEPA REQUIREMENTS, SWPPP DOCUMENTS, PLANS, AND SPECIFICATIONS

SEEDING AND EROSION CONTROL

- TRADE CONTRACTOR SHALL ABIDE BY EROSION CONTROL MEASURES OUTLINED IN THE "ILLINOIS URBAN MANUAL, LATEST EDITION" BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA).
- SILT FENCING AND OTHER EROSION CONTROL DEVICES SHALL BE INSTALLED BY THE TRADE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION ACTIVITIES TO THE LIMITS DELINEATED ON THE PLANS. NO DISTURBANCE OF LAND IS ALLOWED OUTSIDE THE SILT FENCE AND PROJECT LIMITS AS INDICATED ON THE PLANS.
- REQUIRED EROSION CONTROL MEASURES INCLUDING DETENTION BASIN CONSTRUCTION SHALL BE IN PLACE PRIOR TO ANY OTHER SITE DISTURBANCE.
- ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES MUST BE INSPECTED WEEKLY AND MAINTAINED. INSPECTIONS SHALL ALSO BE MADE AFTER A RAINFALL EVENT OF 1/2 INCH OR GREATER OR EQUIVALENT SNOW FALL EVENT. IF NECESSARY, REPAIR OR REPLACEMENT MUST BE PERFORMED IMMEDIATELY TO ASSURE EFFECTIVE PERFORMANCE OF THEIR INTENDED FUNCTIONS.
- IF DEWATERING DEVICES ARE USED, DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. ALL PUMPED DISCHARGES SHALL BE ROUTED THROUGH APPROPRIATELY DESIGNED SEDIMENT TRAPS, BASINS, SEDIMENT FILTER BAGS OR EQUIVALENT MEASURES.
- STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WITHIN 1 WORKING DAY OR PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE BUT NOT LATER THAN 14 DAYS FROM THE INITIATION OF STABILIZATION WORK IN AN AREA.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DISPOSED OF WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED WITH PERMANENT SOIL STABILIZATION MEASURES.
- MAJOR AMENDMENTS OF THE SITE DEVELOPMENT OR EROSION AND SEDIMENTATION CONTROL PLANS SHALL BE SUBMITTED TO THE MUNICIPALITY TO BE APPROVED IN THE SAME MANNER AS THE ORIGINAL PLANS.
- THE TRADE CONTRACTOR SHALL STABILIZE THE SIDE SLOPES GREATER THAN 10:1 OR WHERE SHOWN ON THE PLANS BY INSTALLING NORTH AMERICAN GREEN SCISSOR EROSION CONTROL BLANKET, WITHIN 5 DAYS AFTER FINAL GRADE IS ACHIEVED AND FOLLOWING SEEDING WITH THE TEMPORARY SEED MATRIX. THE EROSION CONTROL BLANKET SHALL BE INSTALLED AS REQUIRED BY THE MANUFACTURER'S STANDARDS AND SPECIFICATIONS.
- TEMPORARY STOCKPILES SHALL HAVE A SILT FENCE ERECTED AROUND THE PERIMETER OF THE PILE. IF A PILE IS TO REMAIN IN PLACE FOR MORE THAN 14 DAYS, IT SHALL BE TEMPORARILY SEEDED.
- SOIL STOCKPILE LOCATIONS MAY BE LOCATED BY THE CONTRACTOR AS NECESSARY ONSITE AND DO NOT NEED TO MATCH EXACT LOCATION AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN. PROVIDE SILT FENCE AROUND ALL STOCKPILE LOCATIONS. NO STOCKPILES SHALL BE PLACED IN THE PROPOSED DETENTION POND OR BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.
- ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY EXISTING STORM DRAINAGE SYSTEM BY THE USE OF STRAW WATTLES, ROCK CHECK DAMS OR OTHER APPROVED METHODS. THE TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT RESULTING FROM THIS PROJECT FROM ALL SEWERS AND DRAINAGE STRUCTURES (NO FLUSHING DOWNSTREAM) UNTIL 90% OF VEGETATION IS ESTABLISHED.
- TEMPORARY SEDIMENT BARRIERS, STRAW WATTLE PROTECTION, FOR STORM SEWER GRATES SHALL BE CONSTRUCTED WITHIN THE DETAIL AND WITHIN THE PLANS AND THE ILLINOIS URBAN MANUAL.
- THE TRADE CONTRACTOR SHALL PRESCRIBE THE METHODS OUTLINED IN THE ILLINOIS URBAN MANUAL TO CONTROL DUST. ACCEPTABLE MEASURES INCLUDE VEGETATIVE COVER (TEMPORARY SEEDING), MULCH, IRRIGATION, STONE, AND PERMANENT VEGETATION (PERMANENT SEEDING). TEMPORARY DUST CONTROL MEASURES (BY MEANS ACCEPTABLE TO LOCAL AUTHORITIES) SHALL BE APPLIED AS NEEDED TO ACCOMPLISH DUST CONTROL.
- IF AN EXISTING ON-SITE ASPHALT CEILING IS NOT PRESENT THEN, THE TRADE CONTRACTOR SHALL PROVIDE A CONSTRUCTION ACCESS ROAD CONSTRUCTED OF 100T CA-1 FOR 100 FEET IN LENGTH. THE TRADE CONTRACTOR SHALL MAINTAIN THE AREAS FREE OF MUD AND SEDIMENT AT ALL TIMES. REFER TO THE ILLINOIS URBAN MANUAL STANDARD DRAWING IL-630.
- ALL ACCESS TO AND FROM THE CONSTRUCTION SITE IS TO BE RESTRICTED TO THE CONSTRUCTION ENTRANCE.
- TRADE CONTRACTOR IS RESPONSIBLE FOR KEEPING PUBLIC STREETS CLEAR OF DIRT, DUST, DEBRIS AND MUD ON A DAILY BASIS FOR THE ENTIRE CONSTRUCTION PERIOD BY A MEANS ACCEPTABLE TO LOCAL AUTHORITIES.
- ANY MATERIAL REACHING A PUBLIC OR PRIVATE ROAD SHALL BE REMOVED BY SHOVELING OR STREET CLEANING (NOT FLUSHING) BEFORE THE END OF EACH WORKDAY AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL.
- CONTRACTOR IS TO SUBMIT ALL REPORTS, CORRESPONDENCE AND DOCUMENTATION REQUIRED BY THE SWPPP AND IEPA PERMIT TO THE CIVIL ENGINEER FOR REVIEW AND RECORD.

DUST CONTROL MEASURES

	DESCRIPTION
STABILIZED CONSTRUCTION ENTRANCE ACTIVITY	A STABILIZED PAD OF EXISTING ASPHALT OR NEW AGGREGATE LOCATED WHERE TRAFFIC IS ENTERING OR LEAVING THE CONSTRUCTION SITE. ALSO, USED AS A TEMPORARY PARKING FACILITY TO REDUCE TRAFFIC ON DISTURBED SOILS.
PERMANENT VEGETATION	ESTABLISHING PERMANENT VEGETATIVE COVER TO STABILIZE DISTURBED AREAS. APPROPRIATELY SELECTED PLANTS WILL BE ESTABLISHED TO REDUCE EROSION AND STABILIZE THE SITE IN A MANNER THAT ADOPTS TO SITE CONDITIONS.
WATERING TRUCK	A WATERING TRUCK SHALL BE PROVIDED BY THE CONTRACTOR. USAGE OF THE TRUCK WILL BE BASED ON THE REQUEST OF THE OWNER, OWNER'S REPRESENTATIVE, ENGINEER AND/OR MUNICIPALITY TO KEEP THE DUST DOWN.

SEEDING INFORMATION AND SCHEDULE

STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.
PERMANENT SEEDING				A,B,C,D							
SODDING											
TEMPORARY SEEDING		E									

- SEEDING SPECS
- (1) STANDARD LAWN MIXTURE
 100 LBS/ACRE
 MIXED WITH PERENNIAL RYEGRASS 60 LBS/ACRE
 CREEPING RED FESCUE 40 LBS/ACRE
 - (1A) SALT TOLERANT LAWN MIXTURE
 BLUE GRASS 60 LBS/ACRE
 PERENNIAL RYEGRASS 20 LBS/ACRE
 DANSONS RED FESCUE 20 LBS/ACRE
 SCALDIS HARD FESCUE 20 LBS/ACRE
 FULLTS SALT GRASS 60 LBS/ACRE
 - (4A) LOW PROFILE NATIVE GRASS MIXTURE
 ANDROPOGON SCOPARIUS (LITTLE BLUE STEM) 5 LBS/ACRE
 SOUTHELOW CURTIFENDULA (SIDE OATS GRAMA) 5 LBS/ACRE
 ELYMUS CANADENSIS (WLD RYE) 1LB/ACRE
 SPOROBOLUS HETEROLEPIS (PRAIRIE DROPSEED) 0.5 LB/ACRE
 ANNUAL RYE GRASS 25 LBS/ACRE
 OATS, SPRING 25 LBS/ACRE
 PERENNIAL RYE GRASS 15 LBS/ACRE
 - (4B) WETLAND GRASS AND SEDGE MIXTURE
 ANNUAL RYE GRASS 25 LBS/ACRE
 OATS, SPRING 25 LBS/ACRE
 WETLAND GRASSES 6 LBS/ACRE
 - (7) TEMPORARY EROSION CONTROL MIXTURE PERENNIAL RYEGRASS 60 LBS/ACRE
 SPRING OATS 64 LBS/ACRE
 - SOD

STORM WATER POLLUTION PREVENTION NOTES

THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE NPDES PERMIT NUMBER LR10, ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA) FOR STORMWATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES.

THE PERMITTEE MUST COMPLY WITH ALL CONDITIONS OF THE GENERAL PERMIT. ANY NON-COMPLIANCE CONSTITUTES A VIOLATION OF THE IEPA ACT AND THE CLEAN WATER ACT AND CAN BE GROUNDS FOR ENFORCEMENT ACTION. PERMIT REVOCATION, MODIFICATION, RE-ISSUANCE, TERMINATION, OR DENIAL OF A PERMIT RENEWAL.

- PERMIT DESCRIPTION
 - THE CONSTRUCTION ACTIVITY CONSISTS OF CLEARING AND GRUBBING, MASS GRADING, CONSTRUCTION OF UTILITIES, CONSTRUCTION OF PARKING LOTS, DRIVES AND SIDEWALKS, A PROPOSED BUILDING, A PROPOSED DETENTION BASIN AND SITE LANDSCAPING.
 - THE INTENDED SEQUENCE OF MAJOR ACTIVITIES WHICH DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION IS: TOPSOIL STRIPPING, MASS GRADING, UTILITY CONSTRUCTION, PROPOSED BUILDING FOUNDATIONS, HARD SURFACE CONSTRUCTION, FINE GRADING, PLACEMENT OF TOPSOIL AND ESTABLISHMENT OF PERMANENT VEGETATION.
 - THE TOTAL AREA OF THE SITE IS 74.37 ACRES. 3.05 ACRES ARE EXPECTED TO BE DISTURBED BY THE CONSTRUCTION, GRADING, OR OTHER ACTIVITIES. THE PROPOSED RUNOFF COEFFICIENT FOR THE DISTURBANCE AREA IS 0.74.
 - THE SOIL TYPES THAT ARE PREVALENT ON THE SITE ARE MARKHAM-ASHKUM-BEECHER COMPLEX. THE PROJECT CONSISTS OF PREDOMINANTLY TYPE C SOILS ACCORDING TO THE NRCS SOIL SURVEY.
 - THIS PLAN INDICATES DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED BEFORE AND AFTER MAJOR GRADING ACTIVITIES, LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AND CONTROLS TO PREVENT OFFSITE SEDIMENT TRACKING, AREAS OF SOIL DISTURBANCE, THE LOCATION OF MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS AS IDENTIFIED IN THE PLAN, THE LOCATION OF AREAS WHERE STABILIZATION PRACTICES ARE EXPECTED TO OCCUR, SURFACE WATERS (INCLUDING WETLANDS), AND LOCATIONS WHERE STORM WATER IS DISCHARGED TO A SURFACE WATER.
 - THE RECEIVING WATER IS THE DES PLAINES RIVER THROUGH EXISTING STORM SEWERS THAT WILL BE CONNECTED TO AS PART OF THE PROPOSED PROJECT. NO WETLANDS WERE PRESENT ON-SITE.

PROVIDE AND INSPECT, ADEQUATE EROSION CONTROL MEASURES ON THE SITE. ALL EROSION CONTROL MEASURES SHALL BE IN COMPLIANCE WITH THE "STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST REVISION) BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND WITH THE ILLINOIS URBAN MANUAL.

- ESTABLISH THE STABILIZED CONSTRUCTION ENTRANCE.
- INSTALL SILT FENCE.
- INSTALL TREE PROTECTION AS NOTED.
- PERFORM SITE CLEARING AND DEMOLITION ACTIVITIES AS SHOWN ON PLANS.
- PERFORM MAJOR SITE GRADING AND FINISH GRADING AS SHOWN ON GRADING PLANS.
- STOCK PILE TOP SOIL, PROVIDING SILT FENCE AROUND PILE.
- TEMPORARILY STABILIZE ANY BARREN AREAS.
- CONSTRUCTION OF SYNTHETIC TURF FIELD, TRACK AND FIELD EVENTS AND UTILITIES. INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AS NEEDED AS MINIMUM.
- PERFORM FINE GRADING AS SHOWN ON GRADING PLANS.
- ACHIEVE FINAL SITE STABILIZATION.
- REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES UPON THE ESTABLISHMENT OF PERMANENT GROUND COVER.

- CONTROLS
 THIS PLAN ADDRESSES THE VARIOUS CONTROLS THAT WILL BE IMPLEMENTED FOR EACH OF THE MAJOR CONSTRUCTION ACTIVITIES DESCRIBED ABOVE. FOR EACH MEASURE, THE CONTRACTOR(S) WILL BE RESPONSIBLE FOR ITS IMPLEMENTATION.

- EROSION AND SEDIMENT CONTROLS – THE PERMITTEE SHALL DESIGN, INSTALL AND MAINTAIN EFFECTIVE EROSION CONTROLS AND SEDIMENT CONTROLS TO MINIMIZE THE DISCHARGE POLLUTANTS. AT A MINIMUM, SUCH CONTROLS MUST BE DESIGNED, INSTALLED AND MAINTAINED TO:
 - CONTROL STORM WATER VOLUME AND VELOCITY WITHIN THE SITE TO MINIMIZE SOIL EROSION
 - CONTROL STORM WATER DISCHARGES, INCLUDING BOTH PEAK FLOW RATES AND TOTAL STORM WATER VOLUME, TO MINIMIZE EROSION AT OUTLETS AND TO MINIMIZE DOWNSTREAM CHANNEL AND STREAM BANK EROSION
 - MINIMIZE THE AMOUNT OF SOIL EXPOSED DURING CONSTRUCTION ACTIVITY
 - MINIMIZE THE DISTURBANCE OF STEEP SLOES
 - MINIMIZE SEDIMENT DISCHARGES FROM THE SITE, THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES AS NEEDED AS MINIMUM. THE GENERATION OF SOIL PARTICLE SIZES EXPECTED TO BE PRESENT ON THE SITE.
 - PROVIDE AND MAINTAIN NATURAL BUFFERS AROUND SURFACE WATER, DIRECT STORM WATER TO VEGETATED AREAS, AND PREVENT EROSION OF SOILS, MINIMIZE THE GENERATION OF SILT AND SEDIMENT, UNLESS INFEASIBLE
 - MINIMIZE SOIL COMPACTED AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
 - MINIMIZE SEDIMENT TRACK-OUT, WHERE SEDIMENT HAS BEEN TRACKED-OUT FROM YOUR SITE ONTO PAVED ROADS, SIDEWALKS, OR OTHER PAVED AREAS OUTSIDE OF YOUR SITE, REMOVE THE DEPOSITED SEDIMENT BY THE END OF EACH BUSINESS DAY IN WHICH THE TRACK-OUT OCCURS OR BY THE END OF THE NEXT BUSINESS DAY IF TRACK-OUT OCCURS ON A NON-BUSINESS DAY. REMOVE THE TRACK-OUT BY SWEEPING, SHOVELING, OR VACUUMING THESE SURFACES, OR BY USING OTHER SIMILARLY EFFECTIVE MEANS
 - IF SEDIMENT TRACKING IS OBSERVED FROM TRACKED-OUT SEDIMENT INTO ANY WATER OF THE U.S., OR TO ANY STORMWATER CONVEYANCE OR STORM DRAIN INLET, OR CONSTRUCTED OR NATURAL SITE DRAINAGE FEATURES, UNLESS THE FEATURE IS CONNECTED TO A SEDIMENT BASIN, SEDIMENT TRAP, OR SIMILARLY EFFECTIVE CONTROL.
 - MINIMIZE DUST BY EXPOSING SOFT SOILS, MINIMIZE THE GENERATION OF DUST THROUGH THE APPROPRIATE APPLICATION OF WATER OR OTHER DUST SUPPRESSION TECHNIQUES.

- STABILIZATION PRACTICES – STABILIZATION OF DISTURBED AREAS MUST, AT A MINIMUM, BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATION OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WITHIN 1 WORKING DAY OR PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE BUT NOT LATER THAN 14 DAYS FROM THE INITIATION OF STABILIZATION WORK IN AN AREA. STABILIZATION PRACTICES MAY INCLUDE:
 - SOIL SEEDING, PLANT SEEDING, MULCHING, GEOTEXTILES, SOD STABILIZATION, VEGETATIVE BUFFER STRIPS, PROTECTION OF TREES, PRESERVATION OF MATURE VEGETATION, STAGES OR STAGGERED DEVELOPMENT, AND OTHER APPROPRIATE MEASURES. A RECORD OF THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR, WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE, AND WHEN STABILIZATION MEASURES ARE INITIATED, SHALL BE INCLUDED IN THE PLAN. EXCEPTIONS TO THESE TIME FRAMES ARE SPECIFIED PROVIDED IN PARAGRAPHS (c) AND (b) BELOW:
 - WHERE THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.
 - ON AREAS WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED AND WILL RESUME AFTER 14 DAYS, A TEMPORARY STABILIZATION METHOD CAN BE USED.
 - STABILIZATION IS NOT REQUIRED FOR EXIT POINTS AT LINEAR UTILITY CONSTRUCTION SITES THAT ARE USED ONLY EPISODICALLY AND FOR VERY SHORT DURATIONS OVER THE LIFE OF THE PROJECT, PROVIDED OTHER EXIT POINT CONTROLS ARE IMPLEMENTED TO MINIMIZE SEDIMENT TRACK-OUT.

- STRUCTURAL PRACTICES – PRACTICES INSTALLED TO DIVERT FLOWS FROM EXPOSED SOILS, STORE FLOWS OR RUNOFF AND OTHERWISE FILTER OR LIMIT THE DISCHARGE OF POLLUTANTS FROM THE SITE SUCH AS, BUT NOT LIMITED TO: SILT FENCES, EARTH DIKES, DRAINAGE SWALES, SEDIMENT TRAPS, CHECK DAMS, SUBSURFACE DRAINS, PIPE SLOPE DRAINS, LEVEL SPREADERS, STORM DRAIN INLET PROTECTION, ROCK OUTLET PROTECTION, REINFORCED SOIL PROTECTION SYSTEMS, GABIONS, AND TEMPORARY OR PERMANENT SEDIMENT BASINS. STRUCTURAL PRACTICES SHOULD BE ON UPLAND SOILS TO THE DEGREE PRACTICABLE.
 - THE FOLLOWING REQUIREMENTS APPLY TO SEDIMENT BASINS IF SUCH STRUCTURAL PRACTICES WILL BE INSTALLED TO REDUCE SEDIMENT DISCHARGES:
 - WHEN DISCHARGING FROM THE SEDIMENT BASIN, UTILIZE OUTLET STRUCTURES THAT WITHDRAW WATER FROM THE SURFACE IN ORDER TO MINIMIZE THE DISCHARGE.
 - PREVENT EROSION OF THE SEDIMENT BASIN USING STABILIZATION CONTROLS (E.G., EROSION CONTROL BLANKETS), AT THE INLET AND OUTLET USING EROSION CONTROL AND VELOCITY DISSIPATION DEVICES.
 - SEDIMENT BASINS SHALL BE DESIGNED TO FACILITATE MAINTENANCE, INCLUDING SEDIMENT REMOVAL FROM THE BASINS, AS NECESSARY.
 - THE FOLLOWING REQUIREMENTS APPLY TO PROTECTING STORM DRAIN INLETS:
 - INSTALL INLET PROTECTION MEASURES THAT MINIMIZE SEDIMENT FROM DISCHARGES PRIOR TO ENTRY INTO ANY STORM DRAIN INLET THAT CARRIES STORMWATER FLOW FROM YOUR SITE TO A WATER OF THE U.S., PROVIDED YOU HAVE AUTHORITY TO ACCESS THE STORM DRAIN INLET.
 - CLEAN, OR REMOVE AND REPLACE, THE PROTECTION MEASURES AS SEDIMENT ACCUMULATES, THE FILTER BECOMES CLOGGED, AND/OR PERFORMANCE IS COMPROMISED, WHEN THERE IS EVIDENCE OF SEDIMENT ACCUMULATION ADJACENT TO THE INLET PROTECTION MEASURES, REMOVE THE DEPOSITED SEDIMENT BY THE END OF THE SAME BUSINESS DAY IN WHICH IT IS FOUND OR BY THE END OF THE FOLLOWING BUSINESS DAY IF REMOVAL BY THE SAME BUSINESS IS NOT FEASIBLE.

- USE OF TREATMENT CHEMICALS – THE USE OF ALL POLYMER FLOCCULANTS OR TREATMENT CHEMICALS AT THE SITE SHALL BE IDENTIFIED. DOSAGE OF TREATMENT CHEMICALS SHALL BE IDENTIFIED ALONG WITH ANY INFORMATION FROM ANY MATERIAL SAFETY DATA SHEET. STORAGE AREAS FOR CHEMICALS AND ANY INFORMATION FROM THE MANUFACTURER'S SPECIFICATIONS SHALL BE PROVIDED. TREATMENT CHEMICALS MUST BE STORED IN AREAS WHERE THEY WILL NOT BE EXPOSED TO PRECIPITATION.

- BEST MANAGEMENT PRACTICES FOR IMPAIRED WATERS – THIS SITE DOES NOT DISCHARGE DIRECTLY TO AN IMPAIRED WATER IDENTIFIED ON THE AGENCY'S WEBSITE FOR 303(d) LISTING FOR SUSPENDED SOLIDS, TURBIDITY, OR SILTATION

- POLLUTION PREVENTION – POLLUTION PREVENTION MEASURES SHALL BE DESIGNED, INSTALLED, IMPLEMENTED, AND MAINTAINED TO MINIMIZE THE DISCHARGE OF POLLUTANTS. AT A MINIMUM, SUCH MEASURES MUST BE DESIGNED, INSTALLED, AND MAINTAINED TO:
 - MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WELL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
 - MINIMIZE THE EXPOSURE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS PRESENT ON THE SITE TO PRECIPITATION AND TO STORM WATER. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM SPILLS AND LEAKS AND IMPLEMENT CHEMICAL SPILL AND LEAK PREVENTION AND RESPONSE PROCEDURES.
 - MINIMIZE THE EXPOSURE OF FUEL, OIL, HYDRAULIC FLUIDS, OTHER PETROLEUM PRODUCTS, AND OTHER CHEMICALS BY STORING IN COVERED AREAS OR CONTAINMENT AREAS. ANY CHEMICAL CONTAINERS WITH A STORAGE CAPACITY OF 55 GALLONS OR MORE MUST BE STORED A MINIMUM OF 50 FEET FROM RECEIVING WATERS, CONSTRUCTED OR NATURAL SITE DRAINAGE FEATURES, AND STORM DRAIN INLETS. IF INFEASIBLE DUE TO SITE CONSTRAINTS, STORE CONTAINERS AS FAR AWAY AS THE SITE PERMITS AND DOCUMENT IN THE SWPPP THE SPECIFIC REASONS WHY THE 50-FOOT SETBACK IS INFEASIBLE AND HOW THE CONTAINERS WILL BE STORED.

- OTHER CONTROLS
 - WASTE DISPOSAL THE SOLID WASTE MATERIALS INCLUDING TRASH, CONSTRUCTION DEBRIS, EXCESS CONSTRUCTION MATERIAL, MACHINERY, TOOLS AND OTHER SOLID ITEMS WILL BE COLLECTED AND DISPOSED OFF-SITE BY THE CONTRACTOR.
 - THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING THE NECESSARY PERMITS FOR SUCH DISPOSAL.
 - SPILL PREVENTION AND RESPONSE MEASURES SHALL BE KEPT ON THE SITE AT ALL TIMES.
 - NO SOLID MATERIALS SHALL BE DISCHARGED TO WATERS OF THE STATE.
 - THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE STATE AND/OR LOCAL WASTE DISPOSAL AND SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS. SANITARY SEWAGE SHALL BE DISCHARGED TO THE PROPOSED SANITARY SEWER OR SEPTIC SYSTEM IN ACCORDANCE WITH ALL APPLICABLE STANDARDS. APPROPRIATE CONTROLS AND MEASURES SHALL BE IN PLACE TO REDUCE OR ELIMINATE DISCHARGES FROM CONCRETE OR ASPHALT.
 - CONTRACTOR TO INCLUDES SPILL RESPONSE PROCEDURES AND PROVISIONS FOR REPORTING IF THERE ARE RELEASES IN EXCESS OF REPORTABLE QUANTITIES.
 - CONTRACTOR TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM ALL WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR OTHER CONTROL.
 - MINIMIZE THE EXPOSURE OF BUILDING PRODUCTS, CONSTRUCTION WASTE, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHER MATERIALS PRESENT ONSITE TO PRECIPITATION EXPOSURE.
 - MINIMIZE THE DISCHARGE OF POLLUTANTS FROM SPILLS AND LEAKS AND IMPLEMENT CHEMICAL SPILL AND LEAK PREVENTION AND RESPONSE MEASURES.

- SPILL PREVENTION AND RESPONSE PROCEDURES – THE CONTRACTOR WILL TRAIN ALL PERSONNEL IN THE PROPER HANDLING OF SPILLS OF HAZARDOUS SUBSTANCES OR OIL. NO SPILLED HAZARDOUS SUBSTANCES OR OIL WILL BE ALLOWED TO COME IN CONTACT WITH STORM WATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORM WATER DISCHARGE WILL BE CONTAINED ON SITE BY MEASURES SUCH AS, BUT NOT LIMITED TO, ABSORBENTS, BOOMS, STATIC RESISTANT PADS, SUMPS, BOOMS AND OTHER CLEAN UP EQUIPMENT UNTIL APPROPRIATE REMEDIATION STANDARDS ARE MET. FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORM WATER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR'S SUPERINTENDENT TO BE PROPERLY TRAINED, AND TO TRAIN ALL PERSONNEL IN SPILL PREVENTION AND CLEAN UP PROCEDURES.
- IN ORDER TO PREVENT OR MINIMIZE THE POTENTIAL FOR A SPILL OF HAZARDOUS SUBSTANCES OR OIL TO COME INTO CONTACT WITH STORM WATER, THE FOLLOWING STEPS WILL BE IMPLEMENTED:
 - ALL HAZARDOUS SUBSTANCES OR OIL (SUCH AS PESTICIDES, PETROLEUM PRODUCTS, FERTILIZERS, DETERGENTS, CONSTRUCTION MATERIALS, PAINTS, PAINT SOLVENTS, CLEANING SOLVENTS, ADDITIVES FOR SOIL STABILIZATION, CONCRETE CURING COMPOUNDS AND ADDITIVES, ETC.) WILL BE STORED IN A SECURE LOCATION, WITH THEIR LIDS ON, PREFERABLY UNDER COVER, WHEN NOT IN USE.
 - THE MINIMUM PRACTICAL QUANTITY OF ALL SUCH MATERIALS WILL BE KEPT AT THE PROJECT.
 - A SPILL CONTROL AND CONTAINMENT KIT WILL BE PROVIDED AT THE PROJECT SITE.
 - MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED INSIDE THE JOB TRAILER WALL AND SITE PERSONNEL WILL BE TRAINED REGARDING THESE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.

- IF THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL HAZARDOUS WASTE DISCOVERED OR GENERATED AT THE PROJECT SITE IS DISPOSED OF PROPERLY BY A LICENSED HAZARDOUS MATERIAL DISPOSAL COMPANY, THE CONTRACTOR IS RESPONSIBLE FOR NOT EXCEEDING HAZARDOUS WASTE STORAGE REQUIREMENTS MANDATED BY THE EPA OR STATE AND LOCAL AUTHORITIES.
- IN THE EVENT OF A SPILL OF HAZARDOUS SUBSTANCES OR OIL THE FOLLOWING PROCEDURES MUST BE FOLLOWED:
 - ALL MEASURES MUST BE TAKEN TO CONTAIN AND ABATE THE SPILL AND TO PREVENT THE DISCHARGE OF THE HAZARDOUS SUBSTANCE OR OIL TO WATERS OF THE STATE.
 - ALL PERSONNEL ENTERING THE SPILL AREA MUST BE WELL VENTILATED AND PERSONNEL MUST WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH THE HAZARDOUS SUBSTANCE(S).
 - IF THE SPILL IS DETERMINED TO BE IN EXCESS OF A REPORTABLE QUANTITY, THE SWPPP MUST BE MODIFIED WITHIN SEVEN (7) CALENDAR DAYS OF KNOWLEDGE OF THE DISCHARGE TO PROVIDE A DESCRIPTION OF THE RELEASE, THE CIRCUMSTANCES LEADING TO THE RELEASE, AND THE DATE OF THE RELEASE. THE SWPPP MUST IDENTIFY MEASURES TO PREVENT THE REOCCURRENCE OF SUCH RELEASES AND TO RESPOND TO SUCH RELEASES.
 - IF THE RELEASE IS DETERMINED TO NOT BE REPORTABLE (LESS THAN A REPORTABLE QUANTITY) IT SHALL BE NOTED ON AN INSPECTION REPORT AS AN UNSATISFACTORY ITEM AND THE CORRECTIVE ACTION ITEM SHALL BE NOTED AND DATED FOR COMPLETION.

- THE CONTRACTOR'S SUPERINTENDENT WILL BE THE SPILL PREVENTION AND RESPONSE COORDINATOR. HE WILL DESIGNATE THE INDIVIDUALS WHO WILL RECEIVE SPILL PREVENTION AND RESPONSE TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND RESPONSE. THE NAMES OF THESE PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ONSITE.

- BEST MANAGEMENT PRACTICES FOR POST-CONSTRUCTION STORM WATER MANAGEMENT – STRUCTURAL MEASURES SHOULD BE PLACED ON UPLAND SOILS TO THE DEGREE ATTAINABLE, THIS PERMIT ONLY ADDRESSES THE INSTALLATION OF STORM WATER MANAGEMENT MEASURES, AND NOT THE ULTIMATE OPERATION AND MAINTENANCE OF SUCH STRUCTURES AFTER THE CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION. THE CONTRACTOR IS RESPONSIBLE FOR ONLY THE INSTALLATION AND MAINTENANCE OF STORM WATER MANAGEMENT MEASURES PRIOR TO FINAL STABILIZATION OF THE SITE, AND IS NOT RESPONSIBLE FOR MAINTENANCE AFTER STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY HAVE BEEN ELIMINATED FROM THE SITE.
 - POST-CONSTRUCTION STORM WATER MANAGEMENT PRACTICES HAVE BEEN DESIGNED AND INCLUDED TO RETAIN THE GREATEST AMOUNT OF POST-DEVELOPMENT STORM WATER RUN-OFF PRACTICABLE, GIVEN THE SITE AND PROJECT CONSTRAINTS. THREE INFILTRATION TRENCHES HAVE BEEN INCLUDED IN THE DESIGN. THE INFILTRATION TRENCHES WILL BE FILLED OUT POLLUTANTS BY INFILTRATION OF THE RUN-OFF THROUGH AGGREGATE AND A GEOTEXTILE FABRIC. POST-DEVELOPMENT FLOWS THAT EXCEED PRE-DEVELOPMENT FLOWS WILL BE CONTROLLED BY THE INFILTRATION TRENCHES. THE INFILTRATION TRENCH WILL CAPTURE AND RETAIN RUNOFF ON-SITE TO OFFSET THE ADDITIONAL POST DEVELOPMENT FLOWS.
 - VELOCITY DISSIPATION DEVICES SHALL BE PLACED AT DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL AS NECESSARY TO PROVIDE A NON-EROSIVE VELOCITY FLOW FORM THE STRUCTURE TO A WATER COURSE THAT THE NATIONAL AND REGIONAL HYDROLOGICAL AND HYDRAULIC FUNCTIONS ARE MAINTAINED AND PROTECTED (E.G. MAINTENANCE OF HYDROLOGICAL CONDITIONS, SUCH AS THE HYDROPERIOD AND HYDRODYNAMICS PRACTICES PRIOR TO THE INITIATION OF CONSTRUCTION).

- MAINTENANCE
 - THE CONTRACTOR SHALL MAINTAIN, IN GOOD AND EFFECTIVE OPERATING CONDITIONS, THE SEDIMENT AND EROSION CONTROL MEASURES IDENTIFIED ON THIS PLAN UNTIL THE SITE IS STABILIZED. ITEMS IN NEED OF REPAIR SHALL BE ADDRESSED AS SOON AS PRACTICABLE.
 - SILT FENCE – ALL DAMAGED SILT FENCE SHALL BE REPAIRED TO MEET THE STANDARDS OR REMOVED AND REPLACED AS NEEDED. SEDIMENT SHALL BE REMOVED AND LEGALLY DISPOSED OF WHEN IT HAS REACHED 1/3 THE HEIGHT OF THE FABRIC.

- STABILIZED CONSTRUCTION ENTRANCE – THE ENTRANCE SHALL BE MAINTAINED TO PREVENT TRACKING OF SEDIMENT ONTO PUBLIC STREETS. THIS SHALL BE DONE BY TOP DRESSING WITH ADDITIONAL STONES, REMOVE AND REPLACED TOP LAYER OR WASHING THE ENTRANCE. THE SEDIMENT WASHED ON THE PUBLIC RIGHT OR WAY WILL BE REMOVED IMMEDIATELY.
- SEDIMENTATION BASINS/TRAPS – SEDIMENTS SHALL BE REMOVED WHEN 50% OF THE TOTAL ORIGINAL CAPACITY IS OCCUPIED BY THE SEDIMENT. IN NO CASE SHALL THE SEDIMENT BE BUILT UP TO REMOVE THAT 1 FOOT BELOW THE CREST ELEVATION. AT THIS STAGE, THE BASIN SHALL BE CLEANED OUT TO RESTORE ITS ORIGINAL VOLUME.
- INLET/OUTLET PROTECTION – SEDIMENT SHALL BE REMOVED WHEN 50% OF THE TOTAL ORIGINAL CAPACITY IS OCCUPIED BY THE SEDIMENT. ALL SEDIMENT SHALL BE REMOVED PRIOR TO LARGE RAIN EVENTS. FILTER MATERIAL FOR BASKET TYPE INLET PROTECTION SHALL BE POWER WASHED.
- ROCK DAMS/FILTERS – SEDIMENT SHALL BE REMOVED WHEN 50% OF THE TOTAL ORIGINAL CAPACITY IS OCCUPIED BY THE SEDIMENT. ADDITIONAL STONE SHALL BE ADDED OR DAM/FILTER STABILIZED AS NECESSARY.
- SEDIMENT FILTER BAG – SEDIMENT SHALL BE REMOVED WHEN 50% OF THE TOTAL ORIGINAL CAPACITY IS OCCUPIED BY THE SEDIMENT. BAG SHALL BE REPLACED AND DISPOSED OF PROPERLY. BAG SHALL BE INSPECTED FOR HOLES, DAMAGE, ETC. AND REPLACED AS NECESSARY.
- VEGETATIVE EROSION CONTROL MEASURES – THE VEGETATIVE GROWTH OF TEMPORARY AND PERMANENT SEEDING, SODDING, VEGETATIVE CHANNELS, VEGETATIVE FILTERS, ETC SHALL BE MAINTAINED FREQUENTLY AND SUPPLY ADEQUATE WATERING AND FERTILIZER. THE VEGETATIVE COVER SHALL BE RESEDED AS NECESSARY.
- STRAW WATTLES – STRAW WATTLES SHALL BE INSPECTED FREQUENTLY AND SHALL BE REPAIRED OR REMOVED AND REPLACED AS NEEDED.
- RIP RAP – RIP RAP SHALL BE INSPECTED AFTER HIGH FLOWS FOR ANY SCOUR BENEATH THE RIP RAP OR FOR STONES THAT HAVE BEEN DISLOADED. REPAIRS SHALL BE MADE IMMEDIATELY.

- INSPECTIONS
 - QUALIFIED PERSONNEL (PROVIDED BY THE CONTRACTOR) SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM OR BY THE END OF THE FOLLOWING BUSINESS OR WORK DAY THAT IS 0.5 INCHES OR GREATER. QUALIFIED PERSONNEL MEANS A PERSON KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICES OF EROSION CONTROL MEASURES, SUCH AS A LICENSED PROFESSIONAL ENGINEER (P.E.), A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC), A CERTIFIED EROSION SEDIMENT AND STORM WATER INSPECTOR (CESSW), A CERTIFIED STORMWATER INSPECTOR (CSI), A PERSON THAT HAS SUCCESSFULLY COMPLETED THE FEDERAL CGP INSPECTOR TRAINING OFFERED BY USEPA, OR OTHER KNOWLEDGEABLE PERSON WHO POSSESSES THE SKILL TO ASSESS CONDITIONS AT THE CONSTRUCTION SITE THAT COULD IMPACT STORM WATER QUALITY AND TO ASSESS THE EFFECTIVENESS OF ANY SEDIMENT AND EROSION CONTROL MEASURES SELECTED TO CONTROL THE QUALITY OF STORM WATER DISCHARGES FROM THE CONSTRUCTION ACTIVITIES. AREAS INACCESSIBLE DURING INSPECTIONS DUE TO FLOODING OR OTHER UNSAFE CONDITIONS SHALL BE INSPECTED WITHIN 72 HOURS OF BECOMING ACCESSIBLE.
 - INSPECTIONS MAY BE REDUCED TO ONCE PER MONTH WHEN CONSTRUCTION ACTIVITIES HAVE CEASED DUE TO FROZEN CONDITIONS. WEEKLY INSPECTION WILL RECOMMENCE WHEN CONSTRUCTION ACTIVITIES ARE CONDUCTED, OR IF THERE IS 0.5" OR GREATER RAIN EVENT, OR A DISCHARGE DUE TO SNOW MELT OCCURS.
 - DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION AND ALL AREAS WHERE STORMWATER TYPICALLY FLOWS WITHIN THE SITE SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. ALL LOCATIONS WHERE STABILIZATION MEASURES HAVE BEEN IMPLEMENTED MUST BE OBSERVED TO ENSURE THAT THEY ARE STILL STABILIZED. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICATION IMPACTS TO RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OR OFFSITE SEDIMENT TRACKING.
 - BASED ON THE RESULTS OF THE INSPECTION, THE DESCRIPTION OF POTENTIAL POLLUTANT SOURCES IDENTIFIED IN THE PLAN IN ACCORDANCE WITH PARAGRAPH 1 (SITE DESCRIPTION) OF THESE NOTES AND POLLUTION PREVENTION MEASURES IDENTIFIED IN THE PLAN IN ACCORDANCE WITH PARAGRAPH 2 (CONTROLS) OF THESE NOTES SHALL BE REVISED AS APPROPRIATE AS SOON AS PRACTICABLE AFTER SUCH INSPECTION. SUCH MODIFICATIONS SHALL PROVIDE FOR TIMELY IMPLEMENTATION OF ANY CHANGES TO THE PLAN WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE INSPECTION.

- A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PARAGRAPH B ABOVE, SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE PERMIT COVERAGE EXPIRES OR IS TERMINATED. ALL INSPECTION REPORTS SHALL BE RETAINED AT THE CONSTRUCTION SITE. THE REPORT SHALL BE SIGNED BY THE CONTRACTOR, ANY FLOODING OR OTHER UNSAFE CONDITIONS THAT DELAY INSPECTIONS SHALL BE DOCUMENTED IN THE INSPECTION REPORT.
- THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE AGENCY FIELD OPERATIONS SECTION OFFICE BY EMAIL AT: [ADDRESS] AND BY TELEPHONE OR FAX WITHIN 24 HOURS OF AN INCIDENT OF NONCOMPLIANCE FOR ANY VIOLATION OF THE STORM WATER POLLUTION PREVENTION PLAN OBSERVED DURING ANY INSPECTION CONDUCTED, OR FOR VIOLATIONS OF ANY CONDITION OF THIS PERMIT. THE PERMITTEE SHALL COMPLETE AND SUBMIT WITHIN 5 DAYS AN "INCIDENCE OF NONCOMPLIANCE" (ION) REPORT FOR ANY VIOLATION OF THE STORM WATER POLLUTION PREVENTION PLAN OBSERVED DURING AN INSPECTION CONDUCTED, OR FOR VIOLATIONS OF ANY CONDITION OF THIS PERMIT. SUBMISSION SHALL BE ON FORMS PROVIDED BY THE AGENCY AND INCLUDE SPECIFIC INFORMATION ON THE CAUSE OF NONCOMPLIANCE, ACTIONS WHICH WERE TAKEN TO PREVENT ANY FURTHER CAUSES OF NONCOMPLIANCE, AND A STATEMENT DETAILING ANY SIGNIFICATION IMPACT WHICH HAVE RESULTED FROM THE NONCOMPLIANCE. CORRECTIVE ACTIONS MUST BE UNDERTAKEN IMMEDIATELY TO ADDRESS THE IDENTIFIED NON-COMPLIANCE ISSUE(S).
- ALL REPORTS OF NONCOMPLIANCE SHALL BE SIGNED BY THE PERMITTEE.
- AFTER THE INITIAL CONTACT HAS BEEN MADE WITH THE APPROPRIATE AGENCY FIELD OPERATIONS SECTION OFFICE, ALL REPORTS OF NONCOMPLIANCE SHALL BE MAILED TO THE AGENCY AT THE FOLLOWING ADDRESS:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
 DIVISION OF WATER POLLUTION CONTROL
 COMPLIANCE ASSURANCE SECTION
 1021 NORTH GRAND AVENUE EAST
 POST OFFICE BOX 19276
 SPRINGFIELD, ILLINOIS 62794-9276

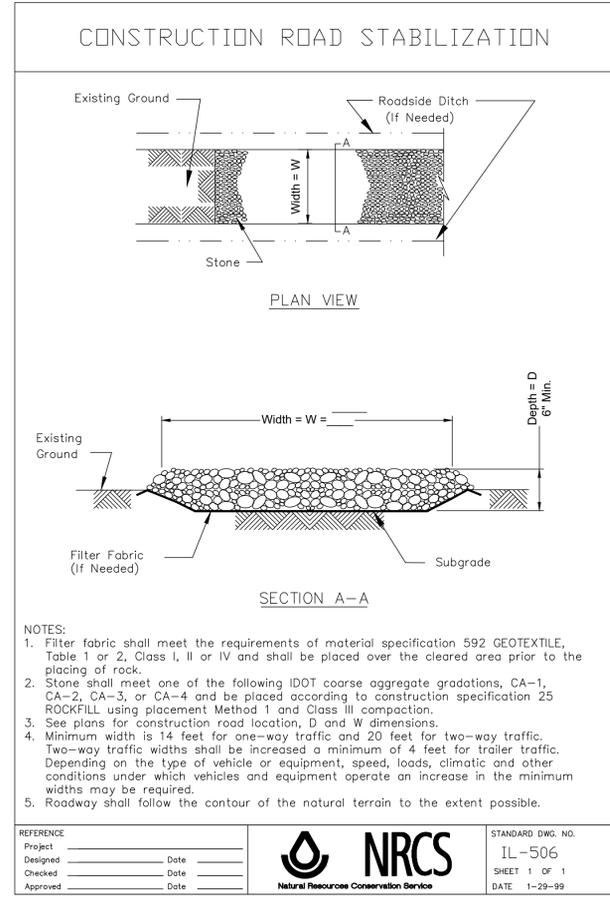
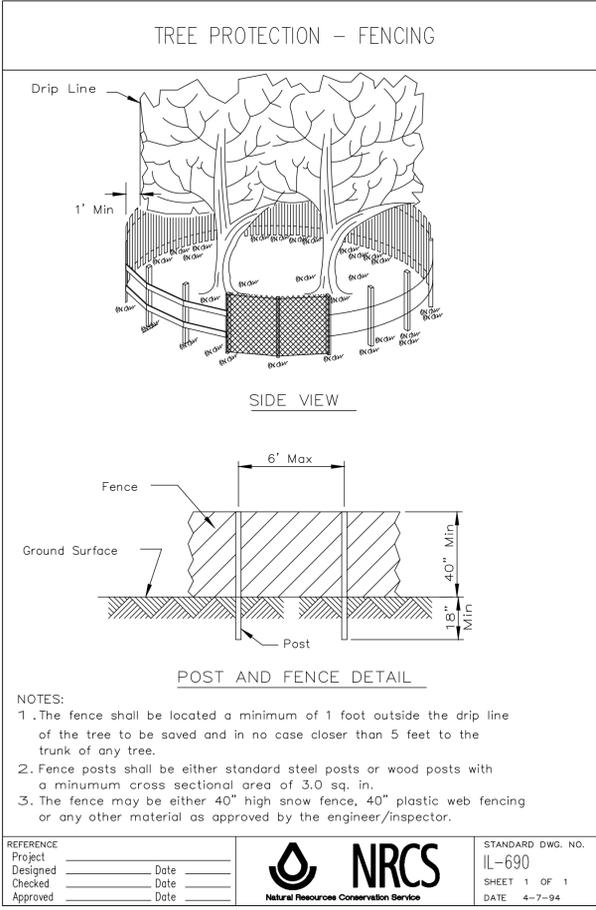
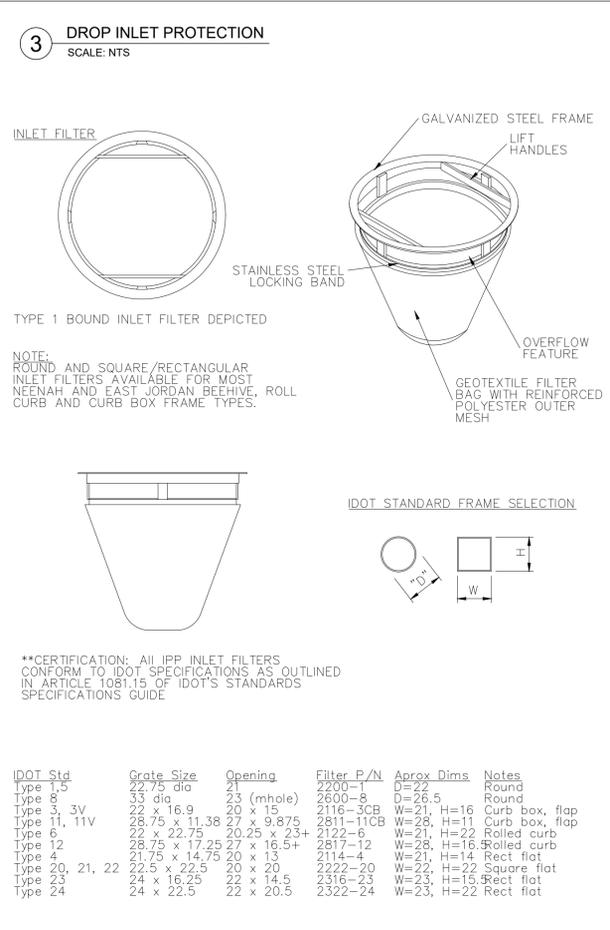
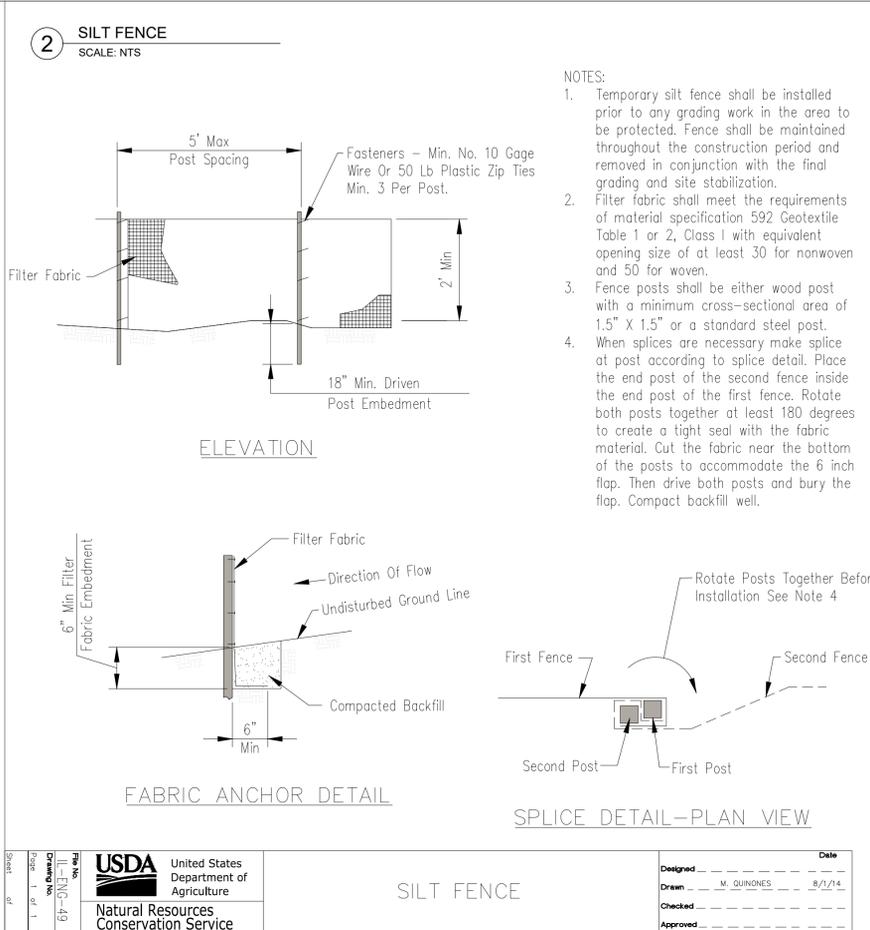
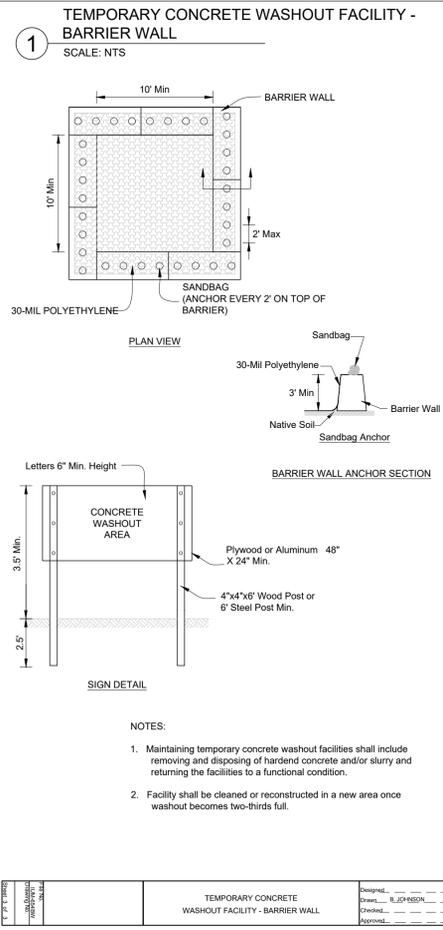
- CORRECTIVE ACTIONS MUST BE TAKEN TO ADDRESS ANY OF THE FOLLOWING CONDITIONS IDENTIFIED AT THE SITE:
 - A STORMWATER CONTROL NEEDS REPAIR OR REPLACEMENT;
 - A STORMWATER CONTROL NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT WAS NEVER INSTALLED OR WAS INSTALLED INCORRECTLY;
 - DISCHARGES ARE CAUSING AN EXCESS OF APPLICABLE WATER QUALITY STANDARDS; OR
 - A PROHIBITED DISCHARGE HAS OCCURRED.
- CORRECTIVE ACTIONS MUST BE COMPLETED AS SOON AS POSSIBLE AND DOCUMENTED WITHIN 7 DAYS IN AN INSPECTION REPORT OR REPORT OF NONCOMPLIANCE. IF IT IS INFEASIBLE TO COMPLETE THE INSTALLATION OR REPAIR WITHIN 7 CALENDAR DAYS, IT MUST BE DOCUMENTED IN THE RECORDS WHY IT IS INFEASIBLE TO COMPLETE THE INSTALLATION OR REPAIR WITHIN THE 7-DAY TIMEFRAME AND DOCUMENT THE SCHEDULE FOR THE STORMWATER CONTROL(S) AND MAKING IT OPERATIONAL AS SOON AS FEASIBLE AFTER THE 7-DAY TIMEFRAME. IF MAINTENANCE IS REQUIRED FOR THE SAME STORMWATER CONTROL AT THE SAME LOCATION THREE OR MORE TIMES, THE CONTROL MUST BE REPAIRED IN A MANNER THAT PREVENTS CONTINUED FAILURE TO THE EXTENT FEASIBLE, AND THE CONDITION AND HOW IT WAS REPAIRED MUST BE RECORDED. ALTERNATIVELY, IT MUST BE DOCUMENTED IN THE RECORDS WHY THE SPECIFIC REOCCURRENCE OF THIS SAME ISSUE SHOULD CONTINUE TO BE ADDRESSED AS A ROUTINE MAINTENANCE FIX.

- NON-STORM WATER DISCHARGES
 THE FOLLOWING SOURCES OF NON-STORMWATER MAY BE COMBINED WITH STORMWATER DISCHARGES ASSOCIATED WITH THE INDUSTRIAL ACTIVITY ADDRESSED IN THIS PLAN.

- FIRE FIGHTING ACTIVITIES
- WATER MAIN/ HOB/ANT FLUSHING
- WATERING FOR DUST CONTROL
- IRRIGATION DRAINAGE FOR VEGETATIVE GROWTH
- WASH WATER WHERE DETERGENTS ARE NOT USED UNCONTAMINATED GROUND WATER
- NON-FIRE FIGHTING DISCHARGES FROM WATER MAINS AND PUMPS SHALL NOT BE PERMITTED TO FLOW DIRECTLY ONTO THE SOIL WITHOUT ENERGY DISSIPATORS SUFFICIENT TO REDUCE VELOCITIES TO A NON-EROSIVE RATE. ALL SITE DE-WATERING, INCLUDING PUMP DISCHARGE SHALL PASS THROUGH SEDIMENT CONTROL DEVICES PRIOR TO LEAVING THE SITE.
- THE FOLLOWING SOURCES OF NON-STORMWATER ARE PROHIBITED FROM BEING COMBINED WITH STORM WATER DISCHARGES:
 - CONCRETE AND WASTEWATER FROM WASHOUT OF CONCRETE (UNLESS MANAGED BY AN APPROPRIATE CONTROL
 - DRYWALL COMPOUND
 - WASTEWATER FROM WASHOUT AND CLEANOUT FOR STUCCO AND PAINT
 - FORM RELEASE OILS
 - CURING COMPOUNDS
 - CONSTRUCTION MATERIALS, FUELS, OILS OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE
 - SOAPS, SOLVENTS, OR DETERGENTS
 - TOXIC OR HAZARDOUS SUBSTANCES FORM A SPILL OR OTHER RELEASE
 - OR ANY OTHER POLLUTANT THAT COULD CAUSE OR TEND TO CAUSE WATER POLLUTION

S:\Darrien\Maine\Township HS 207\240173_Summer 2025\Projects\01\1 Drawings\02 CD MAINE WEST - SYNTHETIC TURF FIELD\05.00 CIVIL DETAILS.dwg hcongletan Dec 09, 2025 11:53:28 am

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MAINE TOWNSHIP HS
DISTRICT 207

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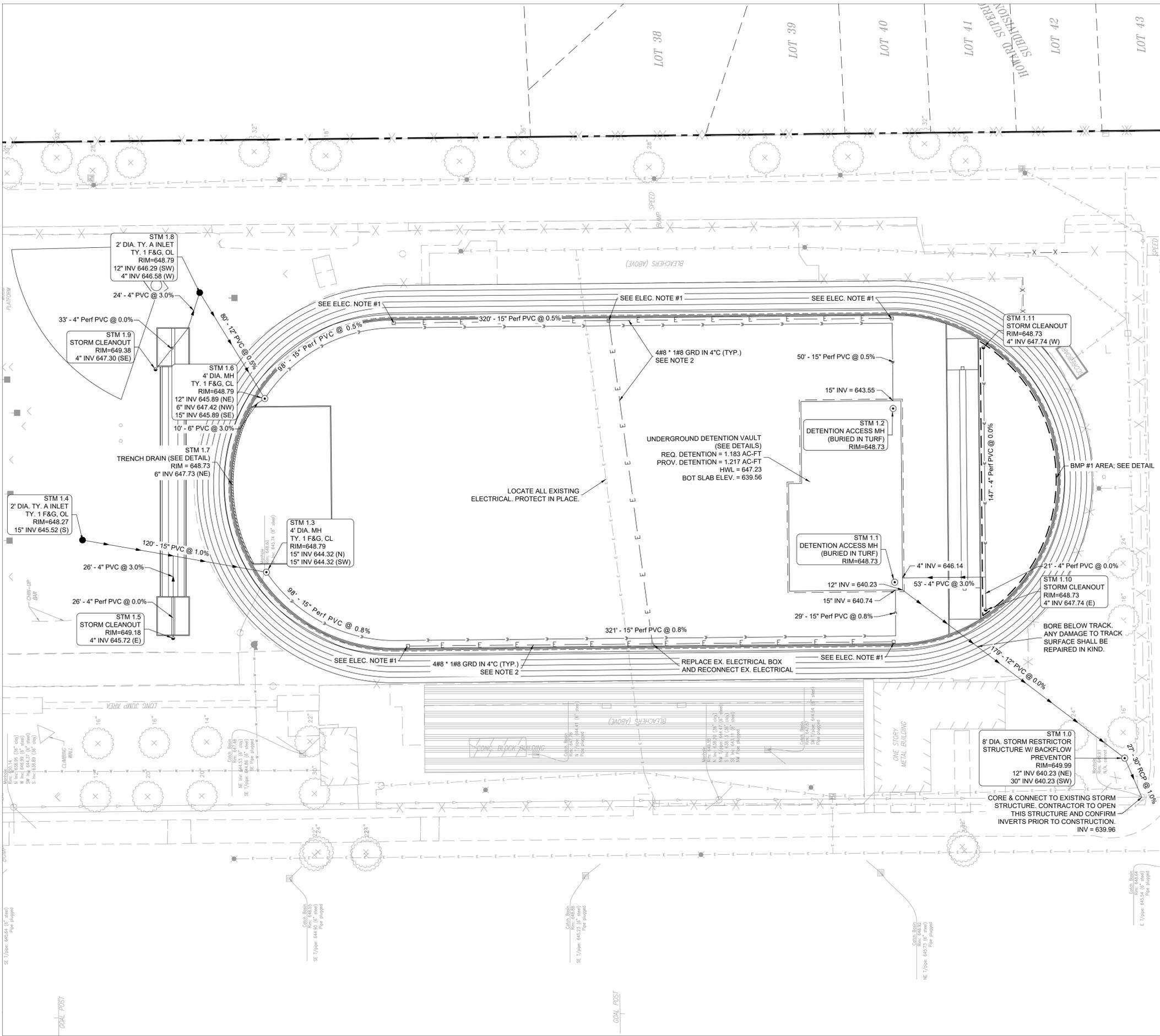
MAINE TOWNSHIP HS DISTRICT 207
SYNTHETIC TURF FIELD IMPROVEMENTS
MAINE WEST HIGH SCHOOL
1755 SOUTH WOLF ROAD
DES PLAINES, IL 60018

EROSION CONTROL DETAILS

Project Number:
240173
Drawn By:
ZM
Sheet:

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LEGEND

- STORM SEWER
- UNDERDRAIN
- OPEN LID STORM CATCH BASIN
- CLOSE LID MANHOLE
- CLEANOUT
- DETENTION FOOTPRINT

- ### UTILITY NOTES:
- CONTRACTOR TO VERIFY ALL EXISTING UTILITY LOCATIONS, SIZES, SLOPES, INVERTS, ETC. AND CONTACT ENGINEER IMMEDIATELY IF THERE ARE ANY CONFLICTS/DISCREPANCIES.
 - CONTRACTOR TO PROTECT ALL EXISTING UTILITIES.
 - ALL EXISTING UTILITY STRUCTURES SHALL BE ADJUSTED AS NECESSARY TO MATCH FINISH GRADE. ALL EXISTING UTILITY STRUCTURES REQUIRING ADJUSTMENT OR RECONSTRUCTION SHALL BE COMPLETED BY THE CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER. ADJUSTMENTS AND/OR RECONSTRUCTIONS NOT CALLED FOR ON THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. NO MORE THAN A TOTAL OF 12 INCHES OF ADJUSTING RINGS AND/OR 2 ADJUSTING RINGS SHALL BE ALLOWED.
 - CONTRACTOR TO COORDINATE ALL UTILITY CONNECTIONS AT THE BUILDING WITH THE MEP TO VERIFY CONNECTION LOCATION, PIPE SIZE, AND INVERT.
 - CONTRACTOR TO SEE MEP PLANS FOR ALL DETAILS, LOCATION, ROUTING, SIZE, ETC. REGARDING GAS, TELEPHONE, ELECTRIC, AND LIGHTING DESIGN. FOLLOW ALL REQUIREMENTS OF UTILITY PROVIDERS.
 - ALL STORM SEWER SHOULD BE PVC SDR 26 OR STRONGER.

AS-BUILT NOTES:

THE CONTRACTOR IS RESPONSIBLE FOR ALL AS-BUILT SURVEYS. ALL AS-BUILT SURVEYS SHALL BE COMPLETED BY A PROFESSIONAL LAND SURVEYOR AND BE SIGNED AND SEALED. THE CONTRACTOR SHALL SUBMIT TWO SETS OF THE "AS-BUILT" FINAL ENGINEERING DRAWINGS (I.E. RECORD DRAWINGS) AND STORMWATER MANAGEMENT CALCULATIONS UPON COMPLETION OF IMPROVEMENTS AND INCLUDE ELECTRONIC CAD FILES. THE RECORD DRAWINGS SHOULD AT LEAST INCLUDE THE FOLLOWING INFORMATION: AS-BUILT DETENTION CONTOURS, ELEVATIONS (INCLUDING DETENTION BASIN TOP OF BERM AND OVERFLOW WEIR GRADES) AND VOLUME (VERIFIED, SIGNED, & SEALED BY A PROFESSIONAL ENGINEER (PE) OR PROFESSIONAL LAND SURVEYOR (PLS)); ELEVATION, AND LOCATION (TIES TO TWO POINTS) OF ALL NEW STRUCTURES INCLUDING FIRE HYDRANTS, VALVE BOXES AND VAULTS, LINESTOP SLEEVES, WATER SERVICE CORPORATION STOPS, WATER MAIN FITTINGS/BENDS, MANHOLES, SANITARY SERVICE WYES (MEASURED FROM DOWNSTREAM MANHOLE), ALL STORM/SANITARY SEWER STRUCTURES (INCLUDING INVERTS AND PIPE SIZES), ALL PIPES (LOCATIONS, SLOPES, LENGTHS, ETC.), OUTLET CONTROL STRUCTURES (INCLUDING RESTRICTOR SIZES AND ELEVATIONS PLUS TOP OF WALL) AND ABANDONED WATER OR SANITARY SERVICE LINES. DETAILED TOPOGRAPHIC SURVEY OF ALL HIGH POINTS, LOW POINTS, CHANGE OF SLOPE INCLUDING GUTTER GRADES, TOP OF CURB GRADES, PAVEMENT GRADES, SIDEWALK GRADES, RAMP GRADES, ETC. TO VERIFY POSITIVE DRAINAGE. ALL ELEVATIONS SHOULD BE REFERENCED TO THE SAME BENCHMARK DATUM AS THE ORIGINAL DESIGN PLANS. HORIZONTAL TIES SHALL BE REFERENCED TO LOT LINES, BACK OF CURB, OR PROPERTY CORNERS.

WITHIN DETENTION/BMP AREAS: FOR VERIFICATION OF DETENTION VOLUME AND SUBBASE GRADES, PRIOR TO BACK-FILLING WITH CA-7, THE CONTRACTOR SHALL PROVIDE ENGINEER WITH A CERTIFIED TOPO SURVEY OF AS-BUILT SUBBASE GRADES FOR ENGINEER APPROVAL AND ALSO A COPY OF RECEIPT OF THE CA-7 AGGREGATE.

- ### ELECTRICAL NOTES:
- ELECTRICAL CONTRACTOR SHALL ROUTE CONDUITS TO HANDHOLES AS REQUIRED. ELECTRICAL CONTRACTOR SHALL INSTALL A SPORTSFIELD SPECIALTIES COMBOX PLUS, OR APPROVED EQUAL, TWO COMPARTMENT HANDLE INSTALLED IN TURF (3500 SERIES) PER MANUFACTURER'S RECOMMENDATIONS. POWER COMPARTMENT SHALL INCLUDE 8X8 NEMA 6P JUNCTION BOX CONNECTED TO A 2-GANG BELL BOX WITH (2) GFI RECEPTACLES AND IN USE COVERS VIA A WATER RESISTANT CORD WITH 1/2" NPS STAIN RELIEF AND INSULATING BUSHINGS ON BOTH ENDS, AND A LOW VOLTAGE COMPARTMENT FOR FUTURE LOW VOLTAGE WIRING (IF INDICATED). HANDHOLE SHALL HAVE A LOCKABLE CIRCULAR COVER WITH TURF INFILL PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE EXACT LOCATIONS WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.
 - ELECTRICAL CONTRACTOR SHALL TEST CONDUITS VIA CAMERA TO VERIFY CONDITION OF CONDUIT AFTER COMPLETION OF FIELD BASE INSTALLATION. COORDINATE WITH ARCHITECT AND PROJECT MANAGER AS TO WHEN TESTING SHALL BE CONDUCTED. ELECTRICAL CONTRACTOR SHALL PROVIDE VIDEO TO ARCHITECT DEMONSTRATING THAT CONDUITS HAVE NOT BEEN DAMAGED DURING FIELD BASE INSTALLATION. ELECTRICAL CONTRACTOR SHALL PULL WIRING ONLY AFTER RECEIVING APPROVAL FROM THE ARCHITECT.

SITE LIGHTING PLAN NOTES:

UNLESS OTHERWISE NOTED, ALL EXTERIOR LIGHTING WIRING SHALL BE #10 AWG, COPPER. ALL EXTERIOR LIGHTING WIRING SHALL BE ROUTED IN PVC SCHEDULE 40 CONDUIT AND ALL ELBOWS SHALL BE RIGID TYPE, A MINIMUM 3\"/>

SERVICE / UTILITY NOTES:

COORDINATE EXACT ROUTING OF SECONDARY SERVICE WITH COMED REPRESENTATIVE AND GENERAL CONTRACTOR. CONTRACTOR SHALL MEET WITH COMED REPRESENTATIVE AND INCLUDE ALL CONTRACTOR COSTS FOR SERVICE IN BASE BID.

VISIT AND EXAMINE CAREFULLY THE SITE SO AS TO BECOME FAMILIAR WITH CONDITIONS AND DIFFICULTIES THAT WILL BE ENCOUNTERED DURING THE EXECUTION OF THE WORK, BEFORE SUBMITTING PROPOSALS. SUBMISSION OF A PROPOSAL WILL BE EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIAL BECAUSE OF DIFFICULTIES ENCOUNTERED, WILL NOT BE RECOGNIZED.

INCLUDE COSTS IN THE BID PROPOSAL TO LOCATE AND MARK EXISTING UNDERGROUND UTILITIES WHERE NEW UNDERGROUND WORK IS INDICATED. PRIOR TO ANY CONSTRUCTION ACTIVITIES, FOR THE LOCATION OF UTILITIES, CALL J.U.L.I.E. AT 1-800-892-0123.

UNDERGROUND INSTALLATION OF AN ELECTRICAL SERVICE CAN NOT BE LOCATED IN THE SAME TRENCH WITH PLUMBING OR GAS SERVICES(S) UNLESS THE MINIMUM DISTANCE BETWEEN UTILITY SERVICES LOCATED IN THE SAME TRENCH, SHALL BE A MINIMUM OF TWELVE(12) INCHES MEASURED IN A HORIZONTAL DIMENSION. UTILITY SERVICES LOCATED IN SEPARATE TRENCHES SHALL BE LOCATED A MINIMUM OF TWELVE(12) INCHES APART HORIZONTALLY.



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MAINE TOWNSHIP HS DISTRICT 207 SYNTHETIC TURF FIELD IMPROVEMENTS

MAINE WEST HIGH SCHOOL
1755 SOUTH WOLF ROAD
DES PLAINES, IL 60018

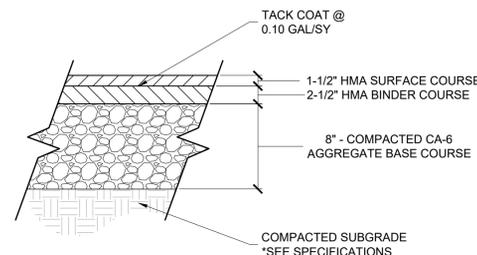
UTILITY PLAN

Project Number: 240173
Scale: 1" = 30'
Drawn By: VO
Sheet:



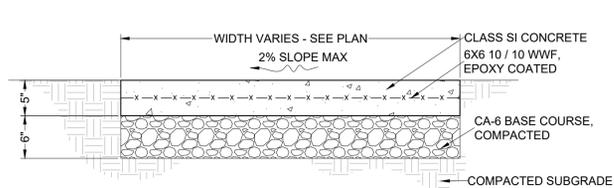
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1 HMA PAVEMENT - FULL DEPTH
SCALE: NTS



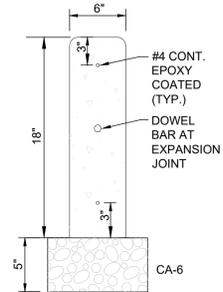
NOTES:
1. FOR UNSUITABLE SUBGRADES UNDERCUT 2 ADDITIONAL FOOT MAXIMUM.

2 PCC SIDEWALK
SCALE: NTS



NOTES:
1. ALL SIDEWALKS SHALL BE CONSTRUCTED WITH IDOT CLASS SI CONCRETE, NOT LESS THAN 3500 P.S.I. CONCRETE AT 14 DAYS.
2. SIDEWALK THICKNESS CROSS DRIVEWAY SHALL BE A MINIMUM 8\"/>

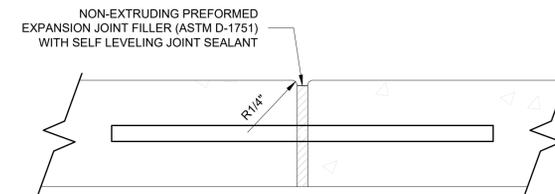
3 6\"/>



NOTES:
1. ALL CURB AND GUTTER SHALL BE CONSTRUCTED W/ IDOT CLASS SI CONCRETE.
2. REFER TO EXPANSION JOINT DETAIL.
3. REINFORCEMENT: PROVIDE THREE (3) #5 REINFORCING BARS CONTINUOUS BETWEEN EXPANSION JOINTS.
4. EXPANSION JOINT: 3\"/>

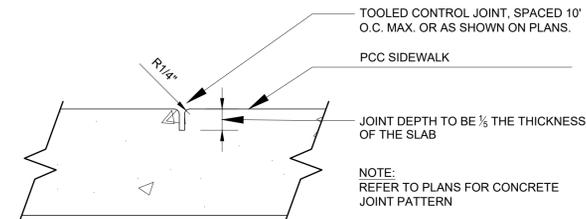
4 JOINT DETAILS
SCALE: NTS

EXPANSION JOINT



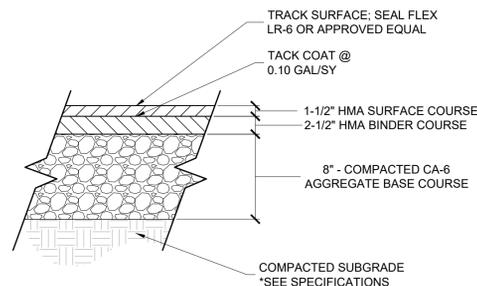
NOTES:
1. PREFORMED FLEXIBLE FOAM EXPANSION JOINT FILLER NOT ACCEPTED.
2. EACH EXPANSION JOINT SHALL HAVE (2) 3\"/>

CONTROL JOINT



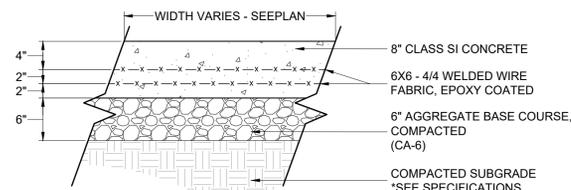
NOTE:
REFER TO PLANS FOR CONCRETE JOINT PATTERN

5 HMA PAVEMENT - TRACK
SCALE: NTS



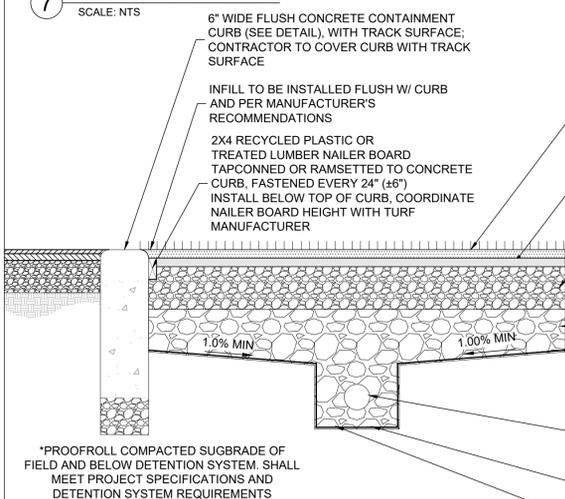
NOTES:
1. FOR UNSUITABLE SUBGRADES UNDERCUT 2 ADDITIONAL FOOT MAXIMUM.

6 HEAVY DUTY CONCRETE PAVEMENT
SCALE: 1\"/>



NOTES:
1. PROVIDE CONTRACTION JOINT EVERY 10' O.C.
2. PROVIDE EXPANSION JOINT AT LOCATIONS WHERE NEW CONCRETE POURS BEGIN/END.

7 SYNTHETIC TURF FIELD SECTION
SCALE: NTS



ALTERNATE 1 AND 2
SYNTHETIC TURF SYSTEM W/ INFILL / SHOCK PAD AND FINAL GRADING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS

SHOCK PAD

PROVIDE 4\"/>

*PROOFROLL COMPACTED SUBGRADE OF FIELD AND BELOW DETENTION SYSTEM. SHALL MEET PROJECT SPECIFICATIONS AND DETENTION SYSTEM REQUIREMENTS

CURB NOTES
1. CONSTRUCTION CONTRACTION JOINTS AT 20' MAXIMUM SPACING.
2. REFER TO EXPANSION JOINT DETAIL

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MAINE TOWNSHIP HS DISTRICT 207
SYNTHETIC TURF FIELD IMPROVEMENTS

MAINE WEST HIGH SCHOOL
1755 SOUTH WOLF ROAD
DES PLAINES, IL 60018

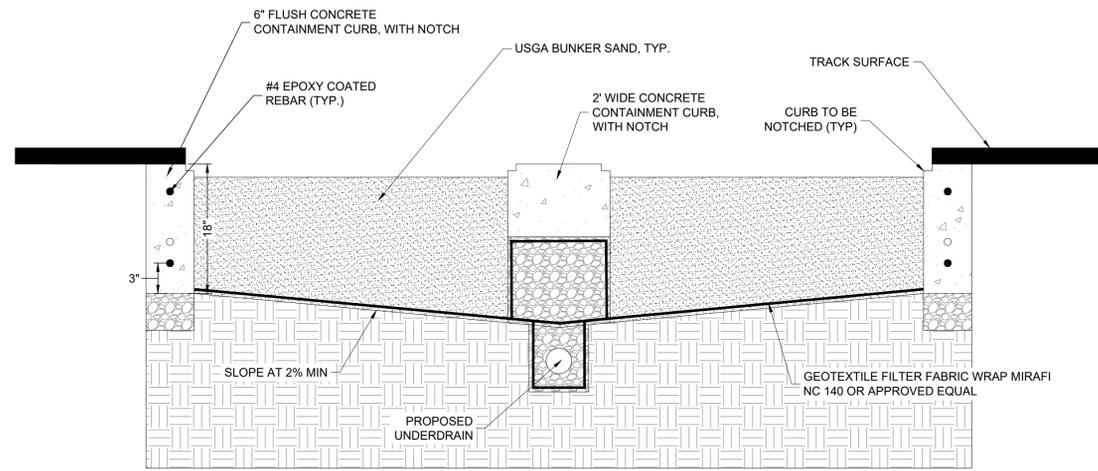
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Project Number:
240173
Drawn By:
HC
Sheet:

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1 LONG JUMP AND TRIPLE JUMP PIT
SCALE: NTS



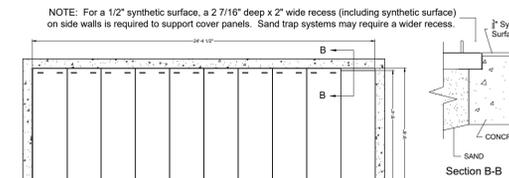
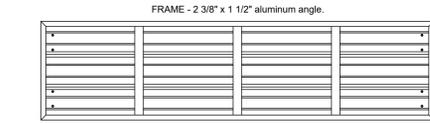
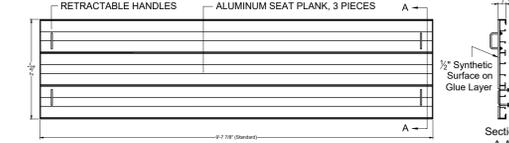
CURB NOTES
1. EXPANSION JOINTS AT 20' MAXIMUM SPACING.
2. REFER TO EXPANSION JOINT DETAIL

2 LONG JUMP AND TRIPLE JUMP PIT COVERS
SCALE: NTS

BASIS OF DESIGN
INSTALL PER MANUFACTURER'S SPECIFICATIONS.
INCLUDE TRACK SURFACING ON PIT COVERS.
SEE SITE PLAN FOR DETAILS, ALL PITS SHALL BE CUSTOM-MEASURED AND DESIGNED IN THE FIELD

SE730148 - LONG & TRIPLE JUMP SAND PIT COVER

SPECIFICATIONS
The SE730148 Long Jump & Triple Jump Sand Pit Cover is fabricated from 9 5/8" x 1 3/4" x 1/8" wall, extruded 6061-T6 aluminum seat plank. Three planks per panel are securely welded together in a frame of 2 3/8" x 1 1/2" x 3/16" aluminum angle. Each panel comes with four retractable handles for easy installation and removal. A 2" wide supporting recess is required on each side wall for the panels. This recess is not required on the end walls. Standard panel width is 9' 7 7/8". To ensure proper fit, manufacture commences only upon receipt of form SE730148-2. A typical sand pit requires 10-11 cover panels. For longer pits, add 29 1/8" to the pit length for each additional panel. Measurements in brackets are in centimeters.



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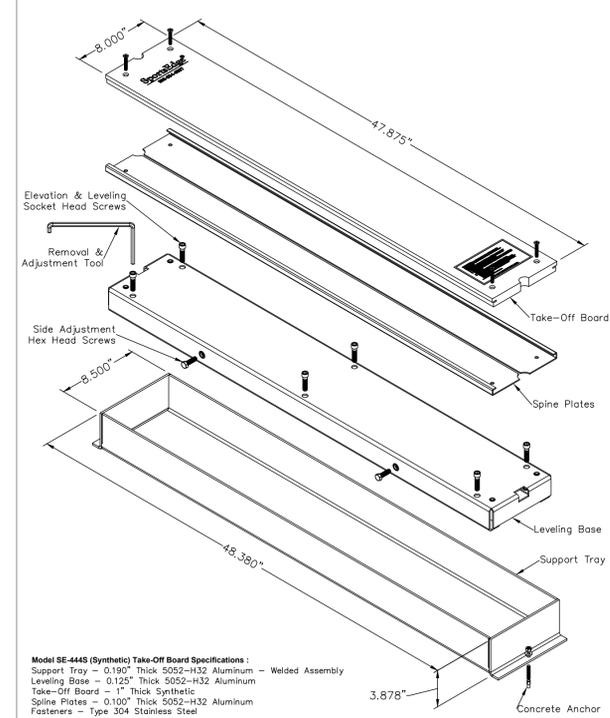
SportsEdge
A Division of ABT, Inc.
P.O. Box 837 • 219 Main Street
Trenton, NJ 08646
800-334-6057

SE730148 Long / Triple Jump Pit Cover
DRAWN: M.D.H. CHECKED: J.W.
SCALE: NONE DATE: 3/31/04 NUMBER: SE730148-1

DISCLAIMER: The customer and the contractor, architect, engineer, consultant and other professionals are completely responsible for the selection, installation and maintenance of any product purchased from ABT and EXCEPT AS EXPRESSLY PROVIDED IN ABT'S STANDARD WARRANTIES, ABT MAKES NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE SUITABILITY, DESIGN, MERCHANTABILITY, OR FITNESS OF THE PRODUCT FOR CUSTOMER'S APPLICATION. Copies of ABT's standard warranties are available upon request.

3 LONG JUMP AND TRIPLE JUMP TAKE OFF BOARD
SCALE: NTS

BASIS OF DESIGN
INSTALL PER MANUFACTURER'S SPECIFICATIONS.
TO BE SET IN CONCRETE

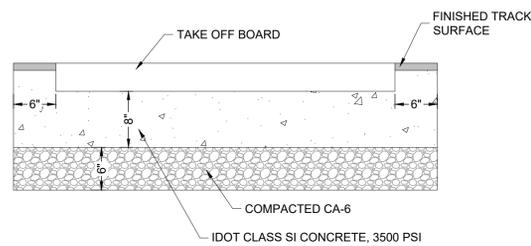


Model SE-444S (Synthetic) Take-Off Board Specifications:
Support Tray - 0.190" Thick 5052-H32 Aluminum - Welded Assembly
Leveling Base - 0.125" Thick 5052-H32 Aluminum
Take-Off Board - 1" Thick Synthetic
Spine Plates - 0.100" Thick 5052-H32 Aluminum
Fasteners - Type 304 Stainless Steel

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4 CONCRETE SETTING FOR TAKE OFF BOARD
SCALE: NTS



5 SHOT PUT THROWFORM
SCALE: NTS

SPORTSFIELD SPECIALTIES
Excellence from Design to Installation
4165 State Highway 15, P.O. Box 226, South, NY 10732 TEL: 888-975-3347 FAX: 847-766-6482

United States Patent #8,186,684, Issued May 29, 2012
United States Patent #8,578,678, Issued November 12, 2013
Meets and/or Exceeds Current NFHS, NCAA and WA Specifications, Rules and Requirements.

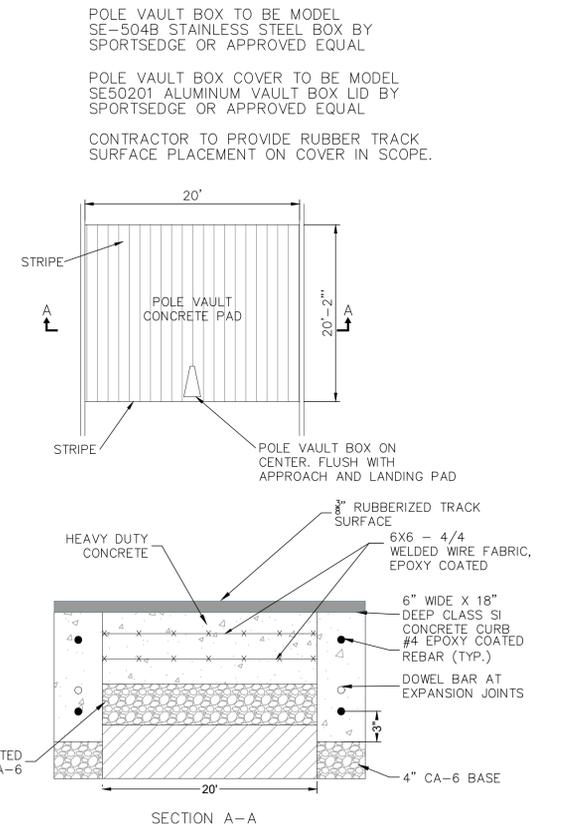
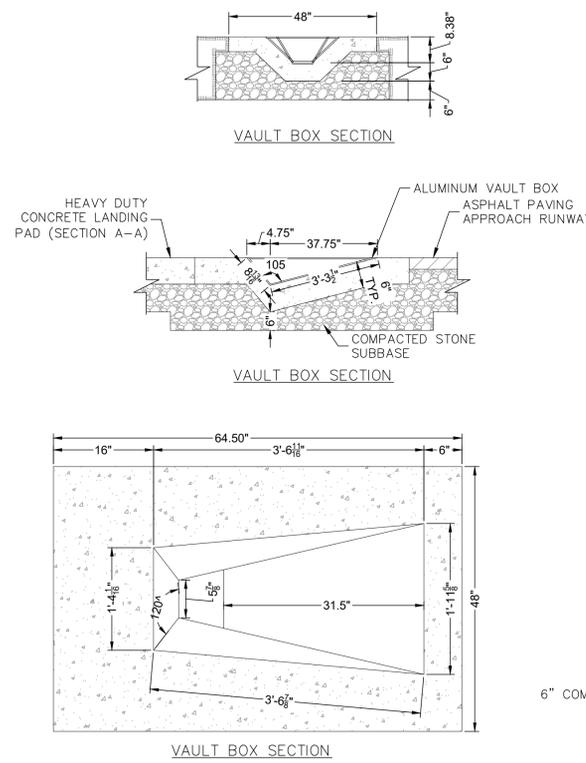
TFSP Shot Put/Hammer ThrowForm® System
Sportsfield Specialties Inc 11112021

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TWO (2) SHOT PUT THROW FORM PAD TO BE MODEL TFSP084 BY SPORTSFIELD SPECIALTIES OR APPROVED EQUAL

TWO (2) SHOT PUT TOE BOARD PAD TO BE MODEL TFSP001A BY SPORTSFIELD SPECIALTIES OR APPROVED EQUAL

6 HIGH SCHOOL POLE VAULT BOX & CONCRETE PAD FOR POLE VAULT WITH TRACK SURFACE
SCALE: NTS



POLE VAULT BOX TO BE MODEL SE-504B STAINLESS STEEL BOX BY SPORTSEGE OR APPROVED EQUAL

POLE VAULT BOX COVER TO BE MODEL SE50201 ALUMINUM VAULT BOX LID BY SPORTSEGE OR APPROVED EQUAL

CONTRACTOR TO PROVIDE RUBBER TRACK SURFACE PLACEMENT ON COVER IN SCOPE.



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MAINE TOWNSHIP HS DISTRICT 207
SYNTHETIC TURF FIELD IMPROVEMENTS

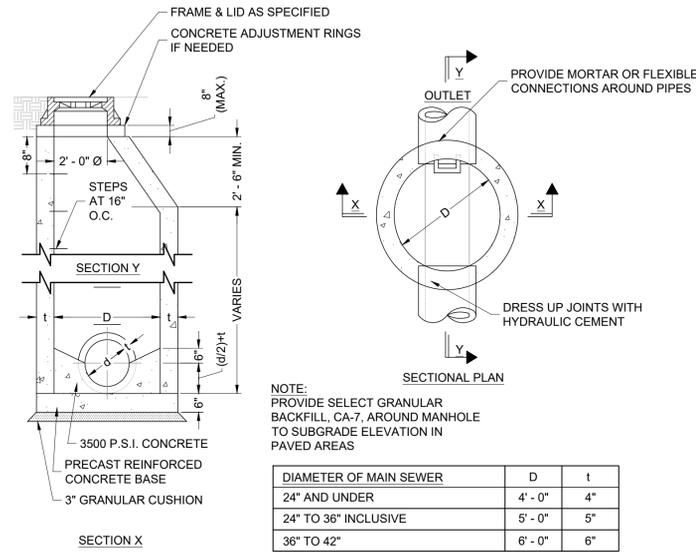
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CIVIL DETAILS

Project Number:
240173
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HC
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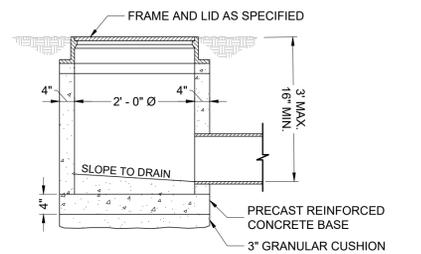
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1 STORM SEWER MANHOLE, TYPE A
SCALE: NTS



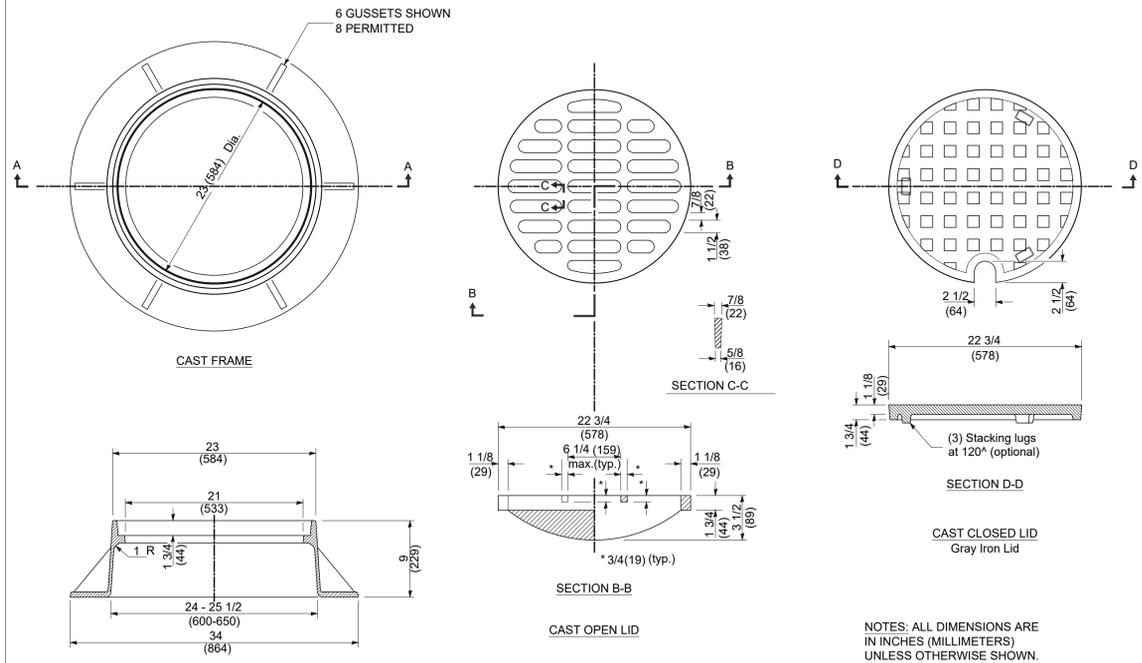
- NOTES:**
- ALL MANHOLES SHALL BE OF PRECAST REINFORCED CONCRETE SECTIONS.
 - PIPE OPENINGS SHALL BE CAST INTO WALL.
 - ALL MANHOLES SHALL BE CONSTRUCTED WITH A PRECAST REINFORCED CONCRETE BASE.
 - ALL JOINTS BETWEEN PRECAST RISER, TOP SLAB SECTIONS, ADJUSTMENT RINGS AND CASTINGS SHALL BE SEALED WITH A BITUMASTIC MATERIAL.
 - MORTAR SHALL NOT BE USED TO DRESS UP ADJUSTING RINGS.
 - STEPS SHALL BE EMBEDDED INTO THE WALL A MINIMUM OF 4" INCHES AND SHALL NOT BE EXTENDED ON THE OUTSIDE.
 - FRAME AND LID CASTINGS SHALL BE AS SPECIFIED ON THE PLANS. THE WORD "STORM" SHALL BE CAST IN THE LID.
 - THE CONTRACT UNIT PRICE FOR MANHOLES SHALL INCLUDE THE FRAME AND LID, STEPS AND THE GRANULAR CUSHION.
 - WHERE A FLAT TOP IS REQUIRED, IT SHALL BE PRECAST AND CONFORM TO IDOT STANDARDS.
 - ALL SANITARY MANHOLES (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE PRECAST "RUBBER BOOTS" THAT CONFORM TO ASTM C-923 FOR ALL PIPE CONNECTIONS DUE TO COMBINED SEWER AREA.

2 INLET, TYPE A
SCALE: NTS



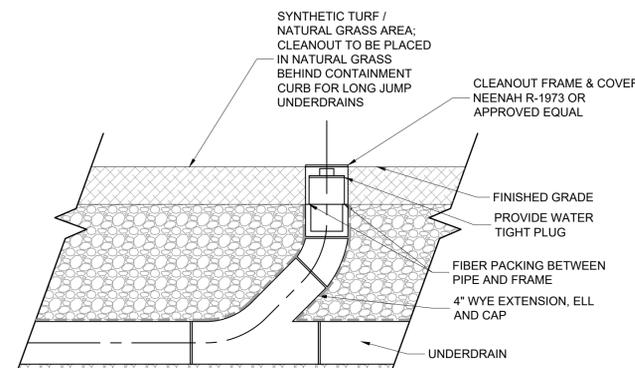
- NOTES:**
- INLETS SHALL BE OF PRECAST REINFORCED CONCRETE SECTIONS.
 - PIPE OPENINGS, AS INDICATED ON THE PLANS, SHALL BE CAST INTO THE WALL SECTIONS.
 - ALL INLETS SHALL BE CONSTRUCTED WITH A PRECAST REINFORCED CONCRETE BASE.
 - ALL JOINTS BETWEEN PRECAST RISER, TOP SLAB SECTIONS, ADJUSTMENT RINGS AND CASTINGS SHALL BE SEALED WITH A BITUMASTIC MATERIAL.
 - MORTAR SHALL NOT BE USED TO DRESS UP ADJUSTING RINGS.
 - STEPS SHALL BE EMBEDDED INTO THE WALL A MINIMUM OF 4" AND SHALL NOT BE EXTENDED ON THE OUTSIDE.
 - FRAME AND LID CASTINGS SHALL BE AS SPECIFIED ON THE PLANS.
 - THE CONTRACT UNIT PRICE FOR INLETS SHALL INCLUDE THE FRAME AND LID, STEPS AND THE GRANULAR CUSHION.
 - WHERE A FLAT TOP IS REQUIRED, IT SHALL BE PRECAST AND CONFORM TO IDOT STANDARDS.
 - ALL SANITARY MANHOLES (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE PRECAST "RUBBER BOOTS" THAT CONFORM TO ASTM C-923 FOR ALL PIPE CONNECTIONS DUE TO COMBINED SEWER AREA.

3 FRAME AND LIDS TYPE 1
SCALE: NTS

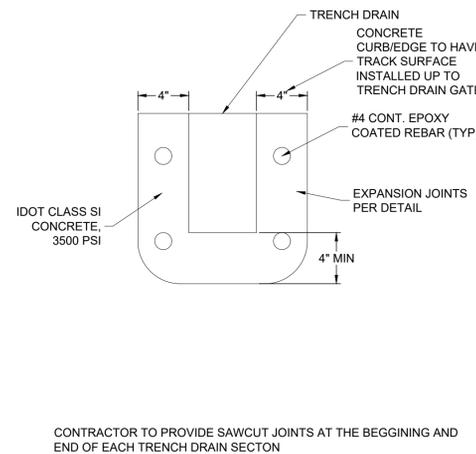


- NOTES:** ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

4 STORM CLEANOUT
SCALE: NTS



5 CONCRETE SETTING FOR TRENCH DRAIN
SCALE: NTS



CONTRACTOR TO PROVIDE SAWCUT JOINTS AT THE BEGINNING AND END OF EACH TRENCH DRAIN SECTION

6 TRENCH DRAIN
SCALE: NTS

BASIS OF DESIGN. INSTALL PER MANUFACTURER'S SPECIFICATIONS. TO BE SET IN CONCRETE.
ACO SYSTEM 4000 TRENCH DRAIN AND GRATE

ACO SPORT ADA plastic grate details

Description	Part No.	Length Inches (mm)	Width Inches (mm)	Weight lbs.
QuickLok grates ADA black plastic grate	97393	19.69 (500)	4.84 (123)	1.8
ADA gray plastic grate	97385	19.69 (500)	4.84 (123)	1.8
QuickLok locking bar	02899	-	-	0.2
QuickLok grate removal hook	01318	-	-	0.6

ACO Specification Information

ACO SPORT System 4000 Open channel trench drain system

Description	Part No.	Invert Depth	Overall Depth	Wgt
4000-1 Sloped channel - 39.37' (1 meter)	138001	4.61	117	5.51
4000-2 Constant depth channel - 39.37' (1 meter)	06562	4.61	117	5.51
4000-3 Sloped channel - 39.37' (1 meter)	138002	4.84	122	5.75
4000-4 Sloped channel - 39.37' (1 meter)	138003	5.08	129	5.98
4000-5 Sloped channel - 39.37' (1 meter)	138004	5.31	135	6.22
4000-6 Sloped channel - 39.37' (1 meter)	138005	5.55	141	6.46
4000-7 Sloped channel - 39.37' (1 meter)	138006	5.79	147	6.69
4000-8 Sloped channel - 39.37' (1 meter)	138007	6.02	153	6.93
4000-9 Sloped channel - 39.37' (1 meter)	138008	6.26	159	7.17
4000-10 Sloped channel - 39.37' (1 meter)	138009	6.50	165	7.40
4010 Constant depth channel - 39.37' (1 meter)	06561	6.50	165	7.40
4010-1 Constant depth channel - 19.69' (0.5 meter)	138013	6.50	165	7.40
4000-11 Sloped channel - 39.37' (1 meter)	138010	6.73	171	7.64
4000-12 Sloped channel - 39.37' (1 meter)	138011	6.97	177	7.87
4000-13 Sloped channel - 39.37' (1 meter)	138012	7.20	183	8.11
4000-14 Sloped channel - 39.37' (1 meter)	138013	7.44	189	8.35
4000-15 Sloped channel - 39.37' (1 meter)	138014	7.68	195	8.58
4000-16 Sloped channel - 39.37' (1 meter)	138015	7.91	201	8.82
4000-17 Sloped channel - 39.37' (1 meter)	138016	8.15	207	9.06
4000-18 Sloped channel - 39.37' (1 meter)	138017	8.39	213	9.29
4000-19 Sloped channel - 39.37' (1 meter)	138018	8.62	219	9.53
4000-20 Sloped channel - 39.37' (1 meter)	138019	8.86	225	9.76
4000-21 Sloped channel - 39.37' (1 meter)	138020	9.09	231	10.00
4020-1 Constant depth channel - 39.37' (1 meter)	06563	8.86	225	9.76
4020-2 Constant depth channel - 19.69' (0.5 meter)	138023	8.86	225	9.76
4000-22 Sloped channel - 39.37' (1 meter)	138021	9.33	237	10.24
4000-23 Sloped channel - 39.37' (1 meter)	138022	9.57	243	10.47
4000-24 Sloped channel - 39.37' (1 meter)	138023	9.80	249	10.71
4000-25 Sloped channel - 39.37' (1 meter)	138024	10.04	255	10.94
4000-26 Sloped channel - 39.37' (1 meter)	138025	10.28	261	11.18
4000-27 Sloped channel - 39.37' (1 meter)	138026	10.51	267	11.42
4000-28 Sloped channel - 39.37' (1 meter)	138027	10.75	273	11.65
4000-29 Sloped channel - 39.37' (1 meter)	138028	10.98	279	11.89
4000-30 Sloped channel - 39.37' (1 meter)	138029	11.22	285	12.13
4030 Constant depth channel - 39.37' (1 meter)	138036	11.22	285	12.13
4030-1 Constant depth channel - 19.69' (0.5 meter)	138033	11.22	285	12.13
4000-31 Sloped channel - 39.37' (1 meter)	138030	11.46	291	12.36

- Part I - General**
- 1.1 Related Work** - Work specified in other sections includes: Excavation and backfill, cast-in-place concrete, and mechanical equipment.
 - 1.2 System Description** - Interconnecting, polymer concrete modular trench drainage system.
 - 1.3 Submittals** - On request, shop drawings showing schematic plan of total drainage system listing all parts with center-line dimensions. Copies of manufacturer's recommended installation instructions.
 - 1.4 Project History** - Manufacturer to provide list of installed projects, if requested.
 - 1.5 Warranty** - Limited one year product warranty based on installation according to manufacturer's installation instructions (see below).
- Part II - Product**
- 2.1 Products** - Manufactured by ACO, Inc.
 - 2.2 Physical & Mechanical Characteristics**
 - Overall width - 5.91 inches (150mm)
 - Internal width - 4.00 inches (100mm)
 - Unit depth - varies - see Product Table
 - Unit length - 39.37 inches (1000mm), or 19.69 inches (500mm)
 - Compressive strength - 14,000 psi
 - Flexural strength - 4,000 psi
 - Water absorption rate - <0.1% by weight.
 - ACO compliant to American Disabilities Act of 1990 Section 4.5.4 with appropriate grate (4940/4950)
 - 2.3 Channel Profile** - Each unit features a full radius in trench bottom, and male to female interconnecting ends. Horizontal cast-in anchoring features on outside walls to ensure maximum mechanical bond to surrounding bedding material.
 - 2.4 Catch Basins** - Manufactured from polymer concrete, be one half meter (19.69') in length and include a trash basket feature.
 - 2.5 Grates** - A choice of QuickLok grates are available. See separate Spec info sheets for details.
- Part III - Installation**
- 3.1 Site Preparation** - Excavate area to accommodate trench bottom, and allow ends to interconnect. Channel sections shall be placed on brick, rebar basket, outside depth, or base concrete during concrete pour. Channel installation shall be made, if required, by rebar or concrete sub. Product channel from concrete splash during concrete pour. Place concrete in a manner that will not dislodge channels.
 - 3.2 Installation** - Start at outlet or catch basin. Insert channels from above to allow ends to interconnect. Channel sections shall be placed on brick, rebar basket, outside depth, or base concrete during concrete pour. Channel installation shall be made, if required, by rebar or concrete sub. Product channel from concrete splash during concrete pour. Place concrete in a manner that will not dislodge channels.
 - 3.3 Finishing and Clean-up** - Following final set of concrete, remove channel protection and thoroughly flush system to remove debris.
 - 3.4** Install in strict accordance with manufacturer's recommendations and drawings. Full details available at www.ACOsport.us.

- Notes:**
- Preformed 4" dia. & 6" flared drill-out outlet cast on underside of half meter channels only.
 - Closing cap can be cast down to suit all channels.
 - Invert depths are at the most downstream end; subtract 0.24" (6mm) for female invert depth EXCEPT constant depth channels where the invert is the same both ends.

ACO, Inc.
West Sales Office: 825 W. Birchcroft Street, Casa Grande, AZ 85122
Northeast Sales Office: 9470 Pinecone Drive, Fort Mill, SC 29708
Southeast Sales Office: 4211 Pleasant Road, Fort Mill, SC 29708
Follow us on: Facebook, Twitter, LinkedIn, YouTube, Instagram, Email: info@aco.com

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ISSUED FOR BID 12/09/2025

REV	DESCRIPTION	DATE

MAINE TOWNSHIP HS
DISTRICT 207
SYNTHETIC TURF FIELD IMPROVEMENTS

MAINE WEST HIGH SCHOOL

1755 SOUTH WOLF ROAD
DES PLAINES, IL 60018

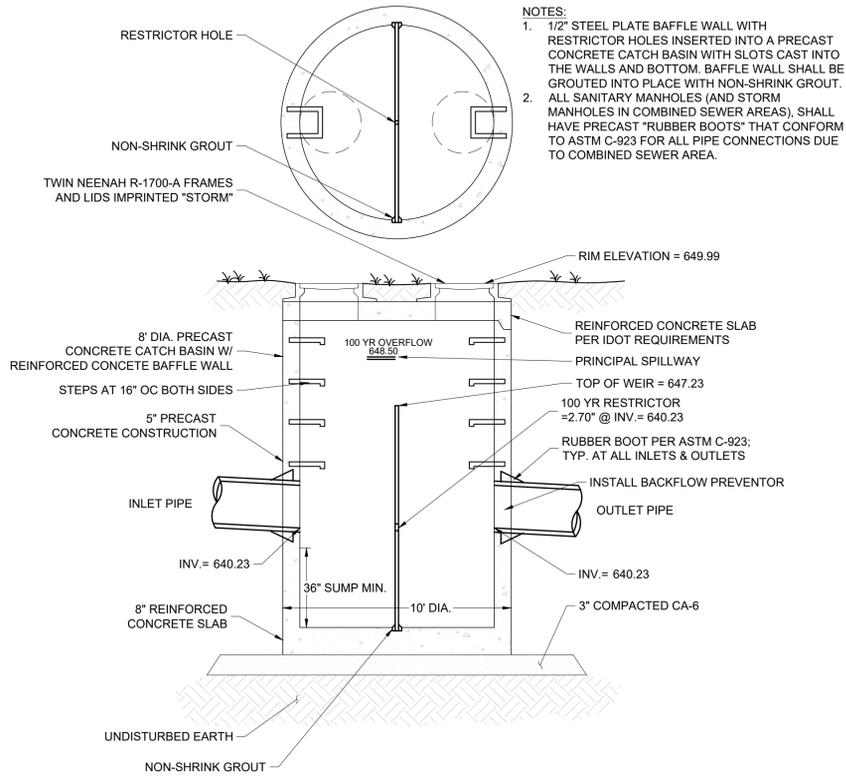
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240173
Drawn By:
HC
Sheet:

C5.03

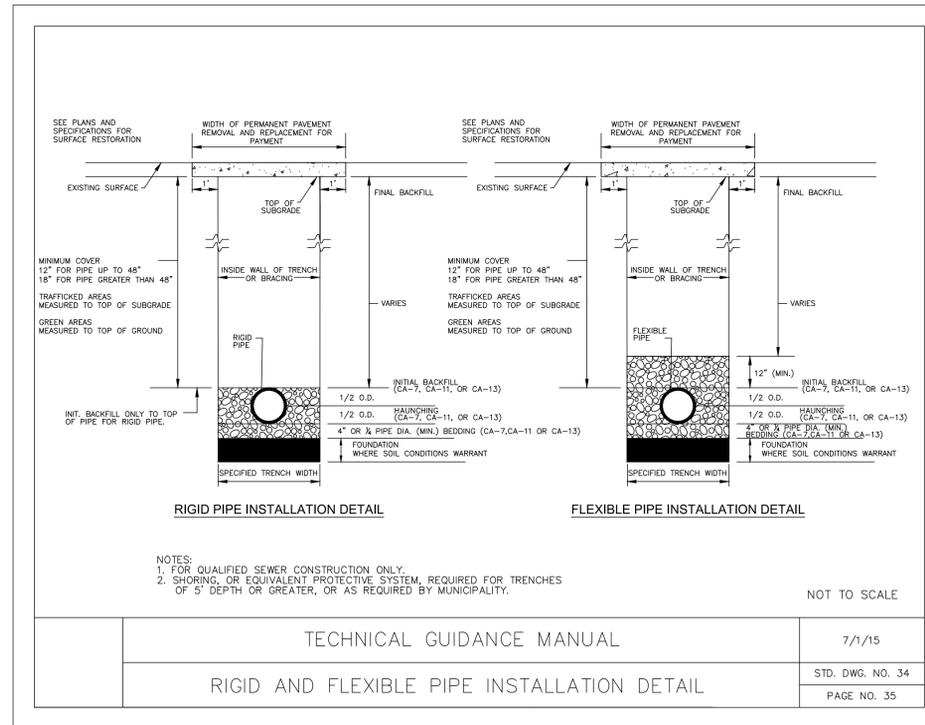
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1 STM 1.0 RESTRICTOR STRUCTURE
SCALE: NTS

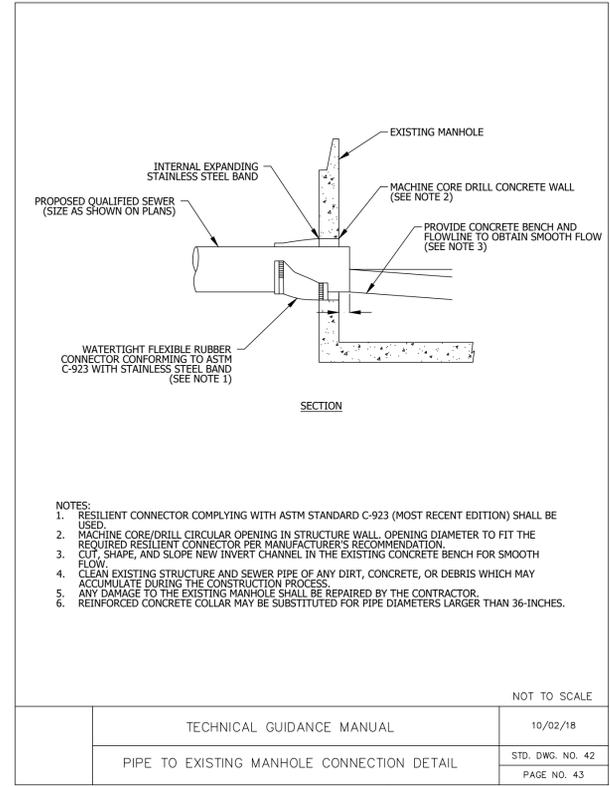


- NOTES:
- 1/2" STEEL PLATE BAFFLE WALL WITH RESTRICTOR HOLES INSERTED INTO A PRECAST CONCRETE CATCH BASIN WITH SLOTS CAST INTO THE WALLS AND BOTTOM. BAFFLE WALL SHALL BE GROUTED INTO PLACE WITH NON-SHRINK GROUT.
 - ALL SANITARY MANHOLES (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE PRECAST "RUBBER BOOTS" THAT CONFORM TO ASTM C-923 FOR ALL PIPE CONNECTIONS DUE TO COMBINED SEWER AREA.

2 MWRD STANDARD DETAILS
SCALE: NTS

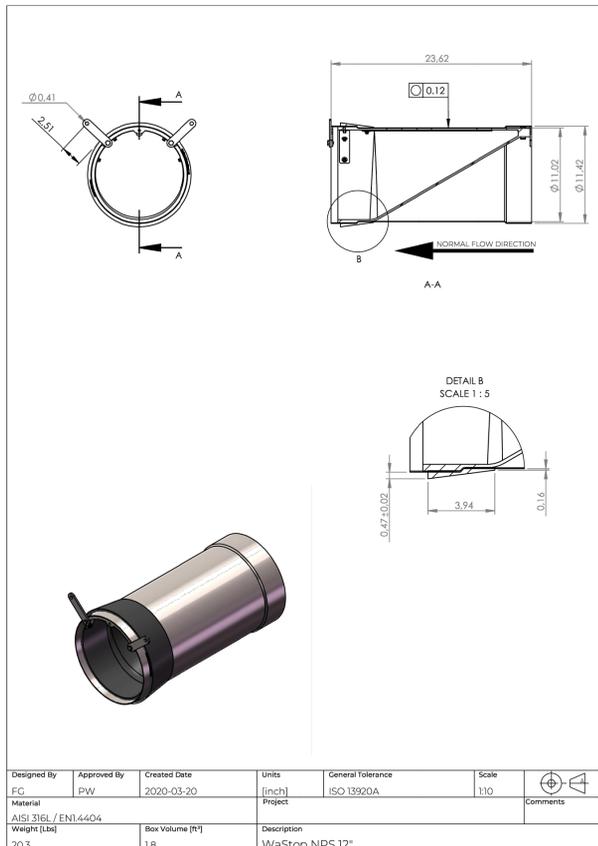


TECHNICAL GUIDANCE MANUAL		7/1/15
RIGID AND FLEXIBLE PIPE INSTALLATION DETAIL		STD. DWG. NO. 34
		PAGE NO. 35



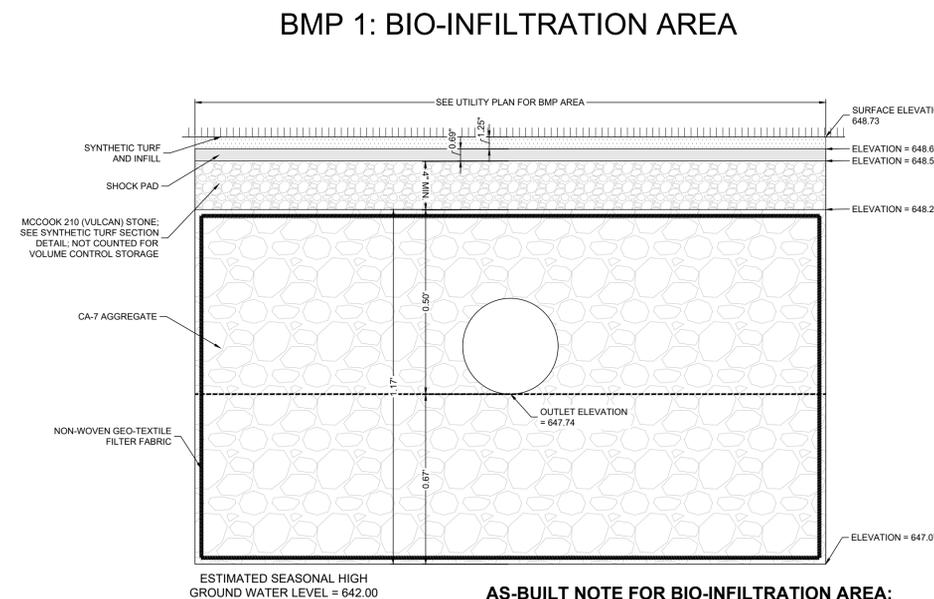
TECHNICAL GUIDANCE MANUAL		10/02/18
PIPE TO EXISTING MANHOLE CONNECTION DETAIL		STD. DWG. NO. 42
		PAGE NO. 43

3 BACKFLOW PREVENTOR
SCALE: NTS



Designed by FC	Approved by PW	Created Date 2020-03-20	Units [inch]	General Tolerance ISO 13920A	Scale 1/10	Comments
Material AISI 316L / EN1.4404	Box Volume [ft³] 1.8	Description WaStop NPS 12"				

4 BMP #1: BIO-INFILTRATION
SCALE: NTS



AS-BUILT NOTE FOR BIO-INFILTRATION AREA:
WITHIN BMP AREAS: FOR VERIFICATION OF BMP VOLUME AND SUBBASE GRADES, PRIOR TO BACK FILLING WITH CA-7. THE CONTRACTOR SHALL PROVIDE ENGINEER WITH A CERTIFIED TOPO SURVEY OF AS-BUILT SUBBASE GRADES FOR ENGINEER APPROVAL AND ALSO A COPY OF RECEIPT OF THE CA-7 AGGREGATE.

- NOTES:
- THE PERIMETER OF THE VOLUME CONTROL FACILITY SHALL MAINTAIN THE MINIMUM HORIZONTAL SEPARATION DISTANCE OF: 10- FEET FROM FOUNDATIONS, UNLESS WATERPROOFED; 20- FEET FROM ROADWAY GRAVEL SHOULDER; AND 100- FEET FROM POTABLE WATER WELLS, SEPTIC TANKS/FIELDS, OR OTHER UNDERGROUND TANKS.
 - SANITARY OR COMBINED SEWERS SHALL NOT BE LOCATED WITHIN THE VOLUME CONTROL FACILITY. SANITARY OR COMBINED SEWERS SHALL NOT BE LOCATED BELOW THE FOOTPRINT OF THE VOLUME CONTROL FACILITY. WHEN LOCAL CONDITIONS PREVENT THE SEWER FROM BEING LOCATED OUTSIDE THE FOOTPRINT OF THE FACILITY THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN QUALITY STANDARDS, OR IT SHALL BE ENCASED WITH A WATER MAIN QUALITY CARRIER PIPE WITH THE ENDS SEALED.
 - AVOID INSTALLATION ON SLOPES GREATER THAN 3.00%. AVOID COMPACTING NATIVE SOILS. SCARIFY ANY COMPACTED SOIL.
 - GEOTEXTILE FABRIC SHALL MEET REQUIREMENTS OF IUM MATERIAL SPECIFICATION 592. FOR WOVEN: APPARENT OPENING SIZE OF 0.50 MM (TABLE 1, CLASS I). FOR NON WOVEN: APPARENT OPENING SIZE OF 0.30 MM (TABLE 2, CLASS II).
 - STONE STORAGE OPTIONS ARE IDOT CA-1, CA-3, CA-7, DISTRICT VULCAN MIX, OR APPROVED ALTERNATE. NO RECYCLED MATERIALS.
 - MINIMUM DISTANCE OF 2 FEET (3.5 FEET IN COMBINED SEWER AREAS) BETWEEN BOTTOM OF BMP AND SEASONALLY HIGH GROUNDWATER LEVEL.
 - UNDERDRAINS ARE REQUIRED IN TYPICAL CLAYEY SOILS WHERE INFILTRATION RATES ARE LESS THAN 0.5 INCH/HOUR. NO MORE THAN 1 UNDERDRAIN EVERY 30 FEET ON CENTER. PROVIDE A SOIL REPORT DOCUMENTING NATIVE INFILTRATION RATE TO FOREGO UNDERDRAINS. NO FILTER FABRIC COVER/SOCK.
 - MINIMUM UNDERDRAIN BEDDING OF 2 INCHES. MAXIMUM OF 12 INCHES.
 - FOLLOW THE REQUIRED PRETREATMENT MEASURES LISTED ON THE VOLUME CONTROL PRETREATMENT MEASURES DETAIL.

BOTTOM OF THE FACILITY:	ELEV. 647.00
SEASONALLY HIGH GROUNDWATER:	ELEV. 642.00
SEPARATION:	FEET 5.00

VOLUME TYPE	SURFACE AREA	DEPTH	POROSITY	STORAGE VOLUME	VOLUME PROVIDED
V _A : SURFACE STORAGE	0	0.00	1.00	1.00 X V _A	0
V _B : SOIL MEDIA MIX	0	0.00	0.25	0.50 X 0.25 X V _B	0
V _C : COARSE AGGREGATE (ABOVE INVERT)	6,320	0.50	0.36	0.50 X 0.36 X V _C	569
V _D : COARSE AGGREGATE (BELOW INVERT)	6,320	0.67	0.36	0.36 X V _D	1,524
				TOTAL	2,093

SEQUENCING NOTE FOR BIO-INFILTRATION AREA:
BMP AREAS TO BE CONSTRUCTED TOWARDS THE END OF CONSTRUCTION, PRIOR TO INSTALLATION OF LANDSCAPE AND FINAL SITE STABILIZATION. CONSTRUCTION EQUIPMENT IS NOT ALLOWED IN THE AREAS OF THE BMP SUBGRADE



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REV	DESCRIPTION DATE

**MAINE TOWNSHIP HS
DISTRICT 207**

SYNTHETIC TURF FIELD IMPROVEMENTS

MAINE WEST HIGH SCHOOL

1755 SOUTH WOLF ROAD
DES PLAINES, IL 60018

CIVIL DETAILS

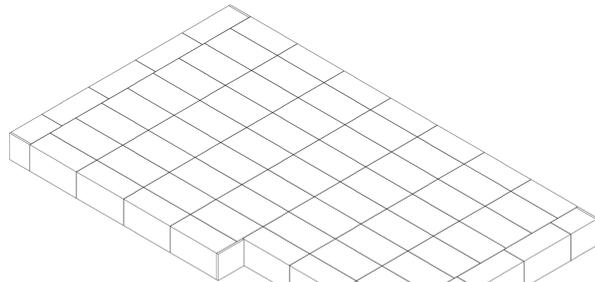
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240173
Drawn By:
HC
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THE STORMTRAP DRAWINGS SHALL NOT BE ALTERED OR MANIPULATED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT OF STORMTRAP. USE OF THESE DRAWINGS IS STRICTLY GRANTED TO YOU, OUR CLIENT, FOR THE SPECIFIED AND NAMED PROJECT ONLY. THESE DRAWINGS ARE FOR YOUR REFERENCE ONLY AND SHALL NOT BE USED FOR MANUFACTURING PURPOSES.



Maine West HS Turf Field Improvements
Park Ridge, IL

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2.0	SINGLETRAP SYSTEM LAYOUT
2.1	SINGLETRAP FOUNDATION LAYOUT
3.0	SINGLETRAP INSTALLATION SPECIFICATION
3.1	SINGLETRAP INSTALLATION SPECIFICATION
3.2	MAC WRAP DETAILS
4.0	SINGLETRAP BACKFILL SPECIFICATION
5.0	PIPE ACCESS OPENING SPECIFICATION
6.0	SINGLETRAP MODULE TYPES



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PROJECT INFORMATION:
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COVER SHEET

SHEET NUMBER:
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GENERAL NOTES:

- STRUCTURE PROXIMITY LOADING DISCLAIMER:**
STORMTRAP MODULES AND FOUNDATION ARE NOT DESIGNED TO ACCEPT ANY ADDITIONAL LOADING FROM ANY NEARBY STRUCTURES NEXT TO OR OVER THE TOP OF STORMTRAP. EXAMPLES OF NEARBY STRUCTURES MAY INCLUDE BUT ARE NOT LIMITED TO BUILDINGS, FOUNDATION ELEMENTS, RETAINING WALLS, LIGHT POLES, BOLLARDS, SIGNPOSTS, FENCES, ADDITIONALLY, STORMTRAP IS NOT RESPONSIBLE FOR INSTALLATION CONFLICTS ARISING FROM ANY OF THESE NEARBY STRUCTURES. IF ADDITIONAL LOADING CONSIDERATIONS ARE REQUIRED FOR STRUCTURAL DESIGN OF STORMTRAP, PLEASE CONTACT STORMTRAP IMMEDIATELY. FOR LIGHT POLES SHOWN OVER THE TOP OF THE SYSTEM, STORMTRAP WILL PROVIDE A 5'-0" LATERAL DISTANCE CAVITY AROUND THE LIGHT POLE TO ACCOMMODATE IT. THE EOR TO TAKE RESPONSIBILITY FOR ENSURING THE LIGHT POLE IS NOT INFLECTING ANY LOADING ON THE STORMTRAP MODULES AND FOUNDATION.
- TREE LOADING DISCLAIMER:**
THE NUMBER OF TREES OR WEIGHT OF TOTAL PLANT MATERIAL PRESENT ON TOP OF A SINGLE STORMTRAP MODULE SHALL NOT EXCEED 16,000 LBS. THE REQUIREMENTS LISTED HERE APPLY AT BOTH THE TIME OF INSTALLATION AND FOR THE LIFE OF THE TREES AND PLANTS IN QUESTION. THE EOR AND LANDSCAPE ARCHITECT ARE RESPONSIBLE FOR ENSURING THAT TREE AND OTHER PLANT ROOTS DO NOT INTERFERE WITH OR COMPROMISE THE FUNCTIONAL AND STRUCTURAL INTEGRITY OF STORMTRAP'S UNDERGROUND MODULES. APPROPRIATE MEASURES SHOULD BE TAKEN TO PREVENT ROOT GROWTH INTO THE STORMTRAP SYSTEM FROM ADJACENT OR OVERHEAD TREES. FURTHERMORE, THE ROOTS OF THE TREES MUST BE CONTAINED TO PREVENT FUTURE DAMAGE TO THE STORMTRAP SYSTEM. STORMTRAP ACCEPTS NO LIABILITY FOR DAMAGES CAUSED BY TREES OR OTHER VEGETATION PLACED AROUND OR ON TOP OF THE SYSTEM.
- PRE-TREATMENT/SEDIMENT/FILTER CHAMBER DISCLAIMER:**
FOR SYSTEMS CONTAINING PRE-TREATMENT, SEDIMENTATION AND/OR FILTER CHAMBERS; IF REQUIRED TO BE SEALED TO PREVENT SAND AND/OR PRE-TREATED WATER FROM MIGRATING INTO ADJOINING MODULES, IT IS THE SOLE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO ENSURE THAT THOSE MODULES ARE SEALED.
- OUTLET CONTROL STRUCTURE DISCLAIMER (IF SHOWN ON THESE PLANS):**
IF A WATERTIGHT SOLUTION IS REQUIRED FOR AN OUTLET CONTROL STRUCTURE, ALL EXTERIOR JOINTS, INCLUDING JOINT BETWEEN TOP AND BASE MODULES, BETWEEN TOP AND BASE OF ADJOINING SYMONS WALLS, AND JOINTS BETWEEN MODULE AND ADJACENT END PANELS WILL BE THE SOLE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO PROVIDE AND INSTALL THE WATERTIGHT APPLICATION PER THE EOR'S SPECIFICATION.



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GENERAL NOTES

SHEET NUMBER:
1.0



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STRUCTURAL DESIGN LOADING CRITERIA	STORMTRAP SYSTEM INFORMATION	SITE SPECIFIC DESIGN CRITERIA
<p>LIVE LOADING: AASHTO HS-20 HIGHWAY LOADING</p> <p>GROUND WATER TABLE: @ ELEV. 642.00'</p> <p>SOIL BEARING CAPACITY: 3000PSF</p> <p>SOIL DENSITY: 120 PCF</p> <p>EQUIVALENT UNSATURATED LATERAL ACTIVE EARTH PRESSURE: 35 PSF / FT.</p> <p>EQUIVALENT SATURATED LATERAL ACTIVE EARTH PRESSURE: 80 PSF/FT. (IF WATER TABLE PRESENT)</p> <p>APPLICABLE CODES: ASTM C857 A61-318</p> <p>BACKFILL TYPE: SEE SHEET 4.0 FOR BACKFILL OPTIONS</p>	<p>UNIT HEADROOM: 7'-0" SINGLETRAP</p> <p>TOTAL STORAGE PROV: 53,012.67 CUBIC FEET</p>	<p>1. STORMTRAP UNITS SHALL BE MANUFACTURED AND INSTALLED ACCORDING TO SHOP DRAWINGS APPROVED BY THE INSTALLING CONTRACTOR AND ENGINEER OF RECORD. THE SHOP DRAWINGS SHALL INDICATE SIZE AND LOCATION OF ROOF OPENINGS AND INLET/OUTLET PIPE TYPES, SIZES, INVERT ELEVATIONS AND SIZE OF OPENINGS.</p> <p>2. COVER RANGE: MIN. 0.83' MAX. 2.00' CONSULT STORMTRAP FOR ADDITIONAL COVER OPTIONS.</p> <p>3. ALL DIMENSIONS AND SOIL CONDITIONS, INCLUDING BUT NOT LIMITED TO GROUNDWATER AND SOIL BEARING CAPACITY ARE REQUIRED TO BE VERIFIED IN THE FIELD BY OTHERS PRIOR TO STORMTRAP INSTALLATION. IF UNSTABLE SOIL BELOW THE PROPOSED FOOTPRINT OF THE STORMTRAP SYSTEM IS FOUND, THE CONTRACTOR SHALL TAKE MEASURES APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER TO INCREASE THE STABILITY OF THE SOIL TO ACCEPTABLE LEVEL.</p> <p>4. FOR STRUCTURAL CALCULATIONS THE GROUND WATER TABLE IS ASSUMED TO BE @ ELEV. 642.00' IF WATER TABLE IS DIFFERENT THAN ASSUMED, CONTACT STORMTRAP.</p> <p>5. SYSTEM DESIGN INTENT IS TO CONTAIN WATER AND / OR PREVENT GROUNDWATER MIGRATION INTO THE SYSTEM AND WILL NOT BE SUBJECT TO LEAKAGE TESTING. THE CONCRETE RIBBON BACKFILL IS REQUIRED FOR SEALING OF THE SYSTEM AT THE HORIZONTAL JOINT. CONCRETE RIBBON BACKFILL TO BE PROVIDED AND INSTALLED IN THE FIELD, BY THE CONTRACTOR, IN ACCORDANCE WITH THE DETAILS LOCATED ON SHEET 3.0.</p>



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SHEET TITLE:
SINGLETRAP DESIGN CRITERIA

SHEET NUMBER:
1.1

BILL OF MATERIALS		
QTY	UNIT TYPE	WEIGHT
46	I 7'-0" SINGLETRAP	18680
0	II 7'-0" SINGLETRAP	0
19	III 7'-0" SINGLETRAP	20234
2	IV 7'-0" SINGLETRAP	22267
0	VII 7'-0" SINGLETRAP	0
0	VII-1 7'-0" SINGLETRAP	0
0	VII-2 7'-0" SINGLETRAP	0
0	VII-3 7'-0" SINGLETRAP	0
0	VII-4 7'-0" SINGLETRAP	0
0	SPH 7'-0" SINGLETRAP	VARIES
3	SPW 7'-0" SINGLETRAP	VARIES
1	12 PANEL 6" THICK PANEL	4734
4	14 PANEL 6" THICK PANEL	3727
0	17 PANEL 6" THICK PANEL	0
1.4	JOINTWAF 150' PER ROLL	
32	JOINTWAF 14.5' PER ROLL	
	TOTAL PIECES = 70	
	TOTAL PANELS = 5	
	HEAVIEST PICK WEIGHT = 22.267	

DESIGN CRITERIA
ALLOWABLE MAX GRADE = 649.23'
ALLOWABLE MIN GRADE = 648.56'
INSIDE HEIGHT ELEVATION = 647.23'
SYSTEM INVERT = 640.23'

NOTES:
1. DIMENSIONS OF STORMTRAP SYSTEM SHOWN BELOW ALLOW FOR A 3/4" GAP BETWEEN EACH MODULE.
2. ALL DIMENSIONS TO BE VERIFIED IN THE FIELD BY OTHERS.
3. SEE SHEET 3.0 FOR INSTALLATION SPECIFICATIONS.
4. SP - INDICATES A MODULE WITH MODIFICATIONS.
5. P - INDICATES A MODULE WITH A PANEL ATTACHMENT.
6. CONTRACTOR'S RESPONSIBILITY TO ENSURE CONSISTENCY/ACCURACY TO FINAL ENGINEER OF RECORD PLAN SET.
7. IN ORDER FOR STORMTRAP TO GENERATE APPROVAL DRAWINGS, CIVIL ENGINEERING DRAWINGS MUST BE PROVIDED TO STORMTRAP AND SHALL INCLUDE ALL PIPE SIZES, PIPE MATERIAL, PIPE INVERT ELEVATIONS, ACCESS OPENING SIZE AND SHAPE. IN ADDITION, FINAL GRADING PLANS SHALL ALSO INCLUDE MINIMUM AND MAXIMUM GRADES OVER THE TOP OF THE STORMTRAP SYSTEM.



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P815-941-4549 / F331-318-5347

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PROJECT INFORMATION:
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Turf Field
Improvements
Park Ridge, IL
CURRENT ISSUE DATE:
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SHEET TITLE:
SINGLETRAP SYSTEM LAYOUT

SHEET NUMBER:
2.0

*NOTE: DESIGN OF SYSTEM IS BY MANUFACTURER. ALL DESIGNS SHALL BE SIGNED & SEALED BY A STRUCTURAL ENGINEER. GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL COMPONENTS AND INSTALLATION OF THE SYSTEM INCLUDING THE CONCRETE BASE.

Project Number:
240173
Drawn By:
HC
Sheet:

C5.05

StormTrap
MEMBER LISTED AS PERMITS/STORMWATER/CONCRETE
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SHEET NUMBER:
2.1

CONCRETE FOUNDATION NOTES:

- CONCRETE FOUNDATION TO BE SUPPLIED AND INSTALLED BY OTHERS.
- CONCRETE STRENGTH 8 DAYS (HS-20) IN-TRENCH AIR, 3"-5" MAX SLUMP.
- NET ALLOWABLE SOIL PRESSURE AS INDICATED ON SHEET 1.1.
- SOIL CONDITIONS TO BE VERIFIED ON SITE BY OTHERS.
- REBAR: ASTM A615 GRADE 60, BLACK BAR.
- DIMENSION OF FOUNDATION MUST HAVE 1"-0" OVERHANG BEYOND EXTERNAL FACE OF MODULE.
- DIMENSION OF STORMTRAP SYSTEM ALLOW FOR A 3/4" GAP BETWEEN EACH MODULE.
- ALL DIMENSIONS TO BE VERIFIED IN THE FIELD BY OTHERS.
- SEE SHEET 3.0 FOR INSTALLATION SPECIFICATIONS.

HS-20 & HS-25 LOADING - (ACI 318, S13)

MAXIMUM SYSTEM COVER	SLAB THICKNESS	CONCRETE STRENGTH	REINFORCEMENT (BOTH DIRECTIONS)	'A' CLEAR COVER
0'-4" - 1'-0" (HS-20)	8"	4000 PSI	#4 @ 18" O.C.	3.5"
0'-6" - 1'-0" (HS-25)	8"	4000 PSI	#4 @ 16" O.C.	3.5"
1'-1" - 2'-0"	8"	4000 PSI	#4 @ 16" O.C.	3.5"
2'-1" - 3'-0"	8"	4000 PSI	#4 @ 12" O.C.	3.5"
3'-1" - 4'-0" (HS-20)	8"	4000 PSI	#5 @ 12" O.C.	3.5"
3'-1" - 4'-0" (HS-25)	8"	4000 PSI	#5 @ 16" O.C.	3.375"
4'-1" - 5'-0"	8"	4000 PSI	#5 @ 16" O.C.	3.375"
5'-1" - 6'-0"	8"	4000 PSI	#5 @ 16" O.C.	3.375"
6'-1" - 7'-0"	8"	4000 PSI	#5 @ 12" O.C.	3.375"
7'-1" - 8'-0"	9"	4000 PSI	#5 @ 12" O.C.	3.875"
8'-1" - 9'-0"	9"	4000 PSI	#5 @ 12" O.C.	3.875"
9'-1" - 10'-0"	9"	4000 PSI	#5 @ 12" O.C.	3.875"
10'-1" - 11'-0"	10"	4000 PSI	#5 @ 12" O.C.	4.375"
11'-1" - 12'-0"	10"	4000 PSI	#5 @ 12" O.C.	4.375"
12'-1" - 14'-0"	11"	4000 PSI	#5 @ 16" O.C. (T&B)	3.000"
14'-1" - 15'-0"	11"	4000 PSI	#5 @ 16" O.C. (T&B)	3.000"

STORMTRAP INSTALLATION SPECIFICATION

- STORMTRAP SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C891 (STANDARD PRACTICE FOR INSTALLATION OF UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES). THE FOLLOWING ADDITIONS AND/OR EXCEPTIONS ARE PROVIDED FOR EMPHASIS. THE INTENTION OF THESE ITEMS DOES NOT PRECLUDE THE INSTALLING CONTRACTOR FROM FOLLOWING ASTM C891 IN ITS ENTIRETY AND IMPLEMENTING ALL APPROPRIATE MEASURES. THE INSTALLING CONTRACTOR OWNS AND IS RESPONSIBLE FOR THE STORMTRAP SYSTEM UPON REMOVAL OF THE MODULES FROM THE DELIVERY TRUCK THROUGH "FINAL CONSTRUCTION". FINAL CONSTRUCTION IS ACHIEVED WHEN ALL MODULES ARE SET, FULLY BACKFILLED, AND WHEN FINAL FINISHED GRADES ARE REACHED. THE CONTRACTOR IS RESPONSIBLE FOR ANY COUNTERMEASURES NECESSARY TO RESIST UPLIFT/BUOYANCY BEFORE "FINAL CONSTRUCTION" IS ACHIEVED.
- IT IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO ENSURE THAT PROPER/ADEQUATE EQUIPMENT IS USED TO SET/INSTALL THE MODULES.
- STORMTRAP MODULES SHALL BE PLACED ON A LEVEL CONCRETE FOUNDATION (SEE SHEET 2.1) WITH A 1'-0" OVERHANG ON ALL SIDES THAT SHALL BE POURED IN PLACE BY INSTALLING CONTRACTOR. A QUALIFIED GEOTECHNICAL ENGINEER WILL BE EMPLOYED BY OWNER TO PROVIDE ASSISTANCE IN EVALUATING THE EXISTING SOIL CONDITIONS TO ENSURE THAT THE SOIL BEARING PRESSURE MEETS OR EXCEEDS THE STRUCTURAL DESIGN LOADING CRITERIA AS SPECIFIED ON SHEET 1.1.
- THE STORMTRAP MODULES SHALL BE PLACED SUCH THAT THE MAXIMUM SPACE BETWEEN ADJACENT MODULES DOES NOT EXCEED 2" (SEE DETAIL 2). IF THE SPACE EXCEEDS 2", THE MODULES SHALL BE RESET WITH APPROPRIATE ADJUSTMENT MADE TO LINE AND GRADE TO BRING THE SPACE INTO SPECIFICATION.
- STORMTRAP MODULES ARE NOT WATERPROOF.
- THE PERIMETER HORIZONTAL JOINT BETWEEN THE STORMTRAP MODULES AND THE CONCRETE FOUNDATION SHALL BE SEALED TO THE FOUNDATION WITH PRE-FORMED MASTIC JOINT SEALER ACCORDING TO ASTM C891, 8.8 AND 8.12 (SEE DETAIL 1). THE MASTIC JOINT TAPE DOES NOT PROVIDE A WATERPROOF SEAL.
- ALL EXTERIOR ROOF AND EXTERIOR VERTICAL WALL JOINTS BETWEEN ADJACENT STORMTRAP MODULES SHALL BE SEALED WITH 8" WIDE PRE-FORMED, COOL-APPLIED, SELF-ADHERING ELASTOMERIC RESIN, BONDED TO A WORKING HIGHLY PUNCTURE RESISTANT POLYMER WRAP, CONFORMING TO ASTM C891 AND SHALL BE INTEGRATED WITH PRIMER SEALANT AS APPROVED BY STORMTRAP (SEE DETAILS 2, 3 & 4). THE JOINT WRAP DOES NOT PROVIDE A WATERPROOF SEAL. THE SOLE PURPOSE OF THE JOINT WRAP IS TO PROVIDE A SILT AND SOIL TIGHT SYSTEM. THE ADHESIVE EXTERIOR JOINT WRAP SHALL BE INSTALLED ACCORDING TO THE FOLLOWING INSTALLATION INSTRUCTIONS:
 - USE A BRUSH OR WET CLOTH TO THOROUGHLY CLEAN THE OUTSIDE SURFACE AT THE POINT WHERE JOINT WRAP IS TO BE APPLIED.
 - A RELEASE PAPER PROTECTS THE ADHESIVE SIDE OF THE JOINT WRAP. PLACE THE ADHESIVE TAPE (ADHESIVE SIDE DOWN) AROUND THE STRUCTURE, REMOVING THE RELEASE PAPER AS YOU GO. PRESS THE JOINT WRAP FIRMLY AGAINST THE STORMTRAP MODULE SURFACE WHEN APPLYING.
 - IF THE CONTRACTOR NEEDS TO CANCEL ANY SHIPMENTS, THEY MUST DO SO 48 HOURS PRIOR TO THEIR SCHEDULED ARRIVAL AT THE JOB SITE. IF CANCELED AFTER THAT TIME, PLEASE CONTACT THE PROJECT MANAGER.
 - IF THE STORMTRAP MODULE(S) IS DAMAGED IN ANY WAY PRIOR, DURING, OR AFTER INSTALL, STORMTRAP MUST BE CONTACTED IMMEDIATELY TO ASSESS THE DAMAGE AND DETERMINE WHETHER OR NOT THE MODULE(S) WILL NEED TO BE REPLACED. IF ANY MODULE ARRIVES AT THE JOB SITE DAMAGED DO NOT UNLOAD IT; CONTACT STORMTRAP IMMEDIATELY. ANY DAMAGE NOT REPORTED BEFORE THE TRUCK IS UNLOADED WILL BE THE CONTRACTOR'S RESPONSIBILITY.
- STORMTRAP MODULES CANNOT BE ALTERED IN ANY WAY AFTER MANUFACTURING WITHOUT WRITTEN CONSENT FROM STORMTRAP.
- THE STORMTRAP SYSTEM SHALL BE BACKFILLED WITH A 3,000 PSI CONCRETE RIBBON 1'-6" PAST THE HORIZONTAL JOINT (WHERE THE STORMTRAP MODULE MEETS THE POURED FOUNDATION). THIS FILL MUST BE 1'-0" WIDE AROUND THE PERIMETER OF THE ENTIRE SYSTEM (SEE DETAIL 1).

StormTrap
MEMBER LISTED AS PERMITS/STORMWATER/CONCRETE
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SHEET NUMBER:
3.0

STORMTRAP MODULE LIFTING SPECIFICATION

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL (4) CHAINS/CABLES ARE SECURED PROPERLY TO THE LIFTING ANCHORS AND IN EQUAL TENSION WHEN LIFTING THE STORMTRAP MODULE.
- MINIMUM 3'-0" CHAIN/CABLE LENGTH TO BE USED TO LIFT STORMTRAP MODULES (SUPPLIED BY CONTRACTOR).
- CONTRACTOR TO ENSURE MINIMUM LIFTING ANGLE IS 60° FROM TOP SURFACE OF STORMTRAP MODULE. SEE DETAIL.
- IT IS UNDERSTOOD AND AGREED THAT AT ALL TIMES DURING WHICH HOISTING AND RIGGING EQUIPMENT IS BEING SUPPLIED TO THE PURCHASER, OPERATOR OF SUCH EQUIPMENT SHALL BE IN CHARGE OF HIS ENTIRE EQUIPMENT AND SHALL AT ALL TIMES BE THE JUDGE OF THE SAFETY AND PROPERITY OF ANY SUGGESTION TO HIM FROM THE SELLER, HIS AGENTS OR EMPLOYEES. PURCHASER AGREES TO SAVE, INDEMNIFY AND HOLD HARMLESS SELLER FROM ALL LOSS, CLAIMS, DEMANDS OR CAUSES OF ACTION, WHICH MAY ARISE FROM THE EXISTENCE OR OPERATION OF SAID EQUIPMENT.

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SHEET NUMBER:
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END PANEL ERECTION/INSTALLATION SPECIFICATION

- END PANELS WILL BE SUPPLIED TO CLOSE OFF OPEN ENDS OF ROWS.
- PANELS SHALL BE INSTALLED IN A TILT UP FASHION DIRECTLY ADJACENT TO OPEN END OF MODULE (REFER TO SHEET 2.0 FOR END PANEL LOCATIONS). SIDE WITH LIFTERS INDICATES OUTSIDE FACE.
- CONNECTION HOOKS WILL BE SUPPLIED WITH END PANELS TO SECURELY CONNECT PANEL TO ADJACENT STORMTRAP MODULE (SEE PANEL CONNECTION ELEVATION VIEW).
- ONCE CONNECTION HOOK IS ATTACHED, LIFTING CLUTCHES MAY BE REMOVED.
- JOINT WRAP SHALL BE PLACED AROUND PERIMETER JOINT PANEL (SEE SHEET 3.0).

TYPE III EXTERNAL SEALING BAND APPLICATION SPECIFICATION

- BEFORE SETTING PRECAST MODULES, PLACE 1" MASTIC JOINT SEALER ALONG THE PERIMETER OF THE SYSTEM SUCH THAT THE EXTERIOR WALLS OF THE MODULES WILL BE SET ON TOP OF THE MASTIC JOINT SEALER. THE MASTIC JOINT SEALER SHALL COMPLY WITH DOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, SECTION 1055. SEE DETAIL "B".
- ALL EXTERIOR JOINTS BETWEEN ADJACENT STORMTRAP MODULES AND END PANELS SHALL BE SEALED WITH AN APPROVED ASTM C877, TYPE IIIA OR IIIB, CHEMICALLY BONDED ADHESIVE BUTYL JOINT BAND/WRAP. ALL BONDING SURFACES SHOULD BE CLEAN, DRY AND FREE OF DIRT, DUST, DEBRIS, OILS AND OTHER CONTAMINANTS TO ENSURE PROPER ADHESION. A PRIMER MAY BE REQUIRED TO IMPROVE THE BONDING ACTION DURING WET CONDITIONS OR WHEN TEMPERATURES DROP BELOW 40 DEGREES F. THE SEALING BAND/WRAP SHALL BE APPLIED PER THE SEALING BAND/WRAP MANUFACTURER'S INSTRUCTIONS.
- AFTER TYPE III SEALING BAND/WRAP HAS BEEN APPLIED, THE PERIMETER OF THE STORMTRAP SYSTEM SHALL BE BACKFILLED WITH A 3,000 PSI CONCRETE RIBBON (18" HIGH BY 12" WIDE) ABOVE THE FLOOR JOINT, SEALING THE MODULE TO THE CONCRETE FOUNDATION, (SEE DETAIL "B").

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 MAC WRAP DETAILS

SHEET NUMBER:
3.2

SEQUENCE OF INSTALLATION

- CONCRETE FOUNDATION POURED AND LEVELED.
- INSTALL JOINT TAPE ON TOP OF CONCRETE FOUNDATION WHERE EXTERIOR WALL OF MODULES WILL BE SET.
- INSTALL STORMTRAP MODULES.
- APPLY 8" JOINT WRAP TO ALL EXTERIOR SIDES AND TOP OF STORMTRAP MODULES (PROVIDED BY STORMTRAP).
- APPLY TYPE III CHEMICALLY-BONDED ADHESIVE BUTYL BANDS ON TOP OF 8" JOINT WRAP ON ALL EXTERIOR SIDES AND TOP OF STORMTRAP (PROVIDED BY STORMTRAP).
- A CONCRETE CRADLE MUST BE INSTALLED AT EACH PIPE PENETRATION. SEE SHEET 5.0
- CONNECT ALL PIPES TO STORMTRAP SYSTEM.
- POUR A CONCRETE RIBBON AROUND PERIMETER OF STORMTRAP SYSTEM. A CONCRETE BONDING AGENT MAY BE USED BETWEEN CONCRETE FOUNDATION AND CONCRETE RIBBON. SEE DETAIL B.
- INSTALL CONCRETE COLLAR AT EACH PIPE CONNECTION TO STORMTRAP SYSTEM. SEE SHEET 5.0.

***NOTE: DESIGN OF SYSTEM IS BY MANUFACTURER. ALL DESIGNS SHALL BE SIGNED & SEALED BY A STRUCTURAL ENGINEER. GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL COMPONENTS AND INSTALLATION OF THE SYSTEM INCLUDING THE CONCRETE BASE.**



**MAINE TOWNSHIP HS
DISTRICT 207**

Wight

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**MAINE TOWNSHIP HS
DISTRICT 207**
 SYNTHETIC TURF FIELD IMPROVEMENTS

MAINE WEST HIGH SCHOOL
 1755 SOUTH WOLF ROAD
 DES PLAINES, IL 60018

CIVIL DETAILS

Project Number:
 240173
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 HC
 Sheet:

C5.06

S:\Darien\Maine\Township HS 207\240173_Summer 2025\Projects\01\11 Drawings\02 CD MAINE WEST - SYNTHETIC TURF FIELD\240173_MW_C5.00 CIVIL DETAILS.dwg hconglaton Dec 09, 2025 4:09:07 pm

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ZONE CHART		
ZONES	ZONE DESCRIPTIONS	REMARKS
ZONE 1	FOUNDATION AGGREGATE	#5 (3") STONE ANGIULAR AGGREGATE (SEE NOTE 4)
ZONE 2	BACKFILL	UNIFIED SOILS CLASSIFICATION (SW, SP, OW, WP, UP) OR SEE BELOW FOR APPROVED BACKFILL OPTIONS
ZONE 3	FINAL COVER OVERTOP	MATERIALS NOT TO EXCEED 120 PCF

FILL DEPTH	TRACK WIDTH	MAX VEHICLE WEIGHT (KIPS)	MAX GROUND PRESSURE (PSF)
12"	18"	51.9	1090 PSF
12"	18"	56.1	1219 PSF
12"	24"	68.1	1111 PSF
12"	30"	76.7	1050 PSF
12"	36"	85.0	924 PSF

NOTE: TRACK LENGTH NOT TO EXCEED 15'-4". ONLY TWO TRACKS PER VEHICLE.

STORMTRAP ZONE INSTALLATION SPECIFICATION/PROCEDURE

- THE FILL PLACED AROUND THE STORMTRAP MODULES MUST BE DEPOSITED ON BOTH SIDES AT THE SAME TIME AND TO APPROXIMATELY THE SAME ELEVATION. AT NO TIME SHALL THE FILL BEHIND ONE SIDE WALL BE MORE THAN 2'-0" HIGHER THAN THE FILL ON THE OPPOSITE SIDE. BACKFILL SHALL EITHER BE COMPACTED AND/OR VIBRATED TO ENSURE THAT BACKFILL AGGREGATE/STONE MATERIAL IS WELL SEATED AND PROPERLY INTER LOCKED. CARE SHALL BE TAKEN TO PREVENT ANY WELDING ACTION AGAINST THE STRUCTURE, AND ALL SLOPES WITHIN THE AREA TO BE BACKFILLED MUST BE STEPPED OR SERRATED TO PREVENT WELDING ACTION. CARE SHALL ALSO BE TAKEN AS NOT TO DISRUPT THE JOINT WRAP FROM THE JOINT DURING THE BACKFILL PROCESS. BACKFILL MUST BE FREE-DRAINING MATERIAL. SEE ZONE 2 BACKFILL CHART ON THIS PAGE FOR APPROVED BACKFILL OPTIONS. IF NATIVE EARTH IS SUSCEPTIBLE TO MIGRATION, CONFORM WITH GEOTECHNICAL ENGINEER AND PROVIDE PROTECTION AS REQUIRED (PROVIDED BY OTHERS). ALL MODULES MUST BE SET AND ALL SIDES MUST BE FULLY BACKFILLED BEFORE TRAVEL OVERTOP THE SYSTEM IS PERMITTED. SEE NOTE 2 FOR EXCEPTIONS AND LIMITATIONS.
- THE FILL PLACED OVERTOP THE SYSTEM SHALL BE PLACED IN MINIMUM 6" LIFTS. AT NO TIME SHALL MACHINERY OR VEHICLES GREATER THAN THE DESIGN LIVE LOAD LISTED ON SHEET 1.1 TRAVEL OVERTOP THE SYSTEM. IF TRAVEL OVER THE SYSTEM OCCURS BEFORE THE MINIMUM DESIGN COVER IS ACHIEVED, IT MAY BE NECESSARY TO REDUCE THE ULTIMATE LOAD/BURDEN OF THE OPERATING MACHINERY SO AS TO NOT EXCEED THE DESIGN CAPACITY OF THE SYSTEM. VEHICLES AND MACHINERY USED TO PLACE FILL MATERIAL ON TOP OF THE SYSTEM SHALL TRAVEL PARALLEL TO THE LONGITUDINAL AXIS OF THE STORMTRAP MODULES WHENEVER POSSIBLE.
- THE VIBRATORY FUNCTION OF ANY ROLLER, COMPACTOR, VEHICLE, ETC. SHALL NOT BE USED OVERTOP THE SYSTEM WITHOUT PRIOR APPROVAL FROM STORMTRAP. IN SOME CASES, HAND COMPACTION MAY BE NECESSARY TO ENSURE THAT THE ALLOWABLE DESIGN LOADING IS NOT EXCEEDED.
- STONE AGGREGATE FOUNDATION IN ZONE 1 IS FOR LEVELING PURPOSES.

OPTION	REMARKS
1" STONE AGGREGATE	THE STONE AGGREGATE SHALL CONSIST OF CLEAN AND FREE DRAINING ANGULAR MATERIAL. THE SIZE OF THIS MATERIAL SHALL HAVE 100% PASSING THE 1" SIEVE WITH 0% TO 5% PASSING THE #8 SIEVE. THIS MATERIAL SHALL BE SEPARATED FROM NATIVE MATERIAL USING GEOTEXTILE AROUND THE PERIMETER OF THE BACKFILL (ASTM SIZE #57) AS DETERMINED BY THE GEOTECHNICAL ENGINEER.
SAND	IMPORTED PURE SAND IS PERMITTED TO BE USED AS BACKFILL IF IT IS CLEAN AND FREE DRAINING. THE SAND USED FOR BACKFILLING SHALL HAVE LESS THAN 40% PASSING THE #40 SIEVE AND LESS THAN 0% PASSING THE #200 SIEVE. THIS MATERIAL SHALL BE SEPARATED FROM NATIVE MATERIAL USING GEOTEXTILE AROUND THE PERIMETER OF THE SAND BACKFILL.
ROAD PACK	CLEAN, FREE DRAINING CRUSHER CONCRETE AGGREGATE MATERIAL CAN BE USED AS BACKFILL FOR STORMTRAP'S MODULES. THE SIZE OF THIS MATERIAL SHALL HAVE 100% PASSING THE 1" SIEVE WITH 0% TO 5% PASSING THE #8 SIEVE. THIS MATERIAL SHALL BE SEPARATED FROM NATIVE MATERIAL USING GEOTEXTILE AROUND THE PERIMETER OF THE BACKFILL.

BACKFILL DETAIL

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TYPE I
TYPE II END PANEL
TYPE III
TYPE IV
TYPE IV END PANEL

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SHEET NUMBER: 6.0

NOTES:
1. OPENING LOCATIONS AND SHAPES MAY VARY.
2. SP - INDICATES A MODULE WITH MODIFICATIONS.
3. P - INDICATES A MODULE WITH A PANEL ATTACHMENT.
4. POCKET WINDOW OPENINGS ARE OPTIONAL.

ACCESS OPENING SPECIFICATION

- A TYPICAL ACCESS OPENING FOR THE STORMTRAP SYSTEM ARE 2'-0" IN DIAMETER. ACCESS OPENINGS LARGER THAN 4'-0" IN DIAMETER NEED TO BE APPROVED BY STORMTRAP. ALL OPENINGS MUST RETAIN AT LEAST 2'-0" OF CLEARANCE FROM THE END OF THE STORMTRAP MODULE UNLESS NOTED OTHERWISE. ALL ACCESS OPENINGS TO BE LOCATED ON INSIDE LEG UNLESS OTHERWISE SPECIFIED. SEE SHEET 2.0 FOR SIZES AND LOCATIONS.
- UNLESS OTHERWISE SPECIFIED, PLASTIC COATED STEPS ARE PROVIDED INSIDE ANY MODULE WHERE DEEMED NECESSARY. THE HIGHEST STEP IN THE MODULE IS TO BE PLACED A DISTANCE OF 1'-0" FROM THE INSIDE EDGE OF THE STORMTRAP MODULES. ALL ENSURING STEPS SHALL BE PLACED AT A DISTANCE BETWEEN 10" MIN AND 14" MAX BETWEEN THEM. STEPS MAY BE MOVED OR ALTERED TO AVOID OPENINGS OR OTHER IRREGULARITIES IN THE MODULE.
- STORMTRAP LIFTING INSERTS MAY BE RELOCATED TO AVOID INTERFERENCE WITH ACCESS OPENINGS OR THE CENTER OF GRAVITY OF THE MODULE AS NEEDED.
- STORMTRAP ACCESS OPENINGS MAY BE RELOCATED TO AVOID INTERFERENCE WITH INLET AND/OR OUTLET PIPE OPENINGS SO PLACEMENT OF STEPS IS ATTAINABLE.
- ACCESS OPENINGS SHOULD BE LOCATED IN ORDER TO MEET THE APPROPRIATE MUNICIPAL REQUIREMENTS. STORMTRAP RECOMMENDS AT LEAST TWO ACCESS OPENINGS PER SYSTEM FOR ACCESS AND INSPECTION.
- USE PRECAST ADJUSTING RINGS AS NEEDED TO MEET GRADE. STORMTRAP RECOMMENDS FOR COVER OVER 2' TO USE PRECAST BARREL OR CONE SECTIONS. (PROVIDED BY OTHERS)

PIPE OPENING SPECIFICATION

- MINIMUM EDGE DISTANCE FOR AN OPENING ON THE OUTSIDE WALL SHALL BE NO LESS THAN 1'-0".
- CONNECTING PIPES MAY BE INSTALLED WITH A 1'-0" CONCRETE COLLAR AND AN AGGREGATE CRADLE (AS REQUIRED) FOR AT LEAST ONE PIPE LENGTH (SEE PIPE CONNECTION DETAIL). A STRUCTURAL GRADE CONCRETE OR HIGH STRENGTH, NON-SHRINK GROUT WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI MAY BE USED.
- THE ANGULAR SPACE BETWEEN THE PIPE AND THE HOLE SHALL BE FILLED WITH HIGH STRENGTH NON-SHRINK GROUT.

PIPE INSTALLATION INSTRUCTIONS

- CLEAN AND LIGHTLY LUBRICATE ALL OF THE PIPE TO BE INSERTED INTO STORMTRAP.
- IF PIPE IS CUT, CARE SHOULD BE TAKEN TO ALLOW NO SHARP EDGES, BEVEL AND LUBRICATE LEAD END OF PIPE.
- ALIGN CENTER OF PIPE TO CORRECT ELEVATION AND INSERT INTO OPENING.

NOTE: ALL ANCILLARY PRODUCTS/SPECIFICATIONS RECOMMENDED AND SHOWN ON THIS SHEET INCLUDING BUT NOT LIMITED TO CONCRETE COLLARS, AGGREGATE CRADLES, GRADE RINGS, RISER SECTIONS, ETC., ARE RECOMMENDATIONS ONLY AND SUBJECT TO CHANGE PER THE INSTALLING CONTRACTOR AND/OR PER LOCAL MUNICIPAL CODE/REQUIREMENTS.

STEP DETAIL
RISER/STAIR DETAIL

PIPE CONNECTION DETAIL WHEN PIPE INVERT IS AT INVERT OF STORMTRAP SYSTEM

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SCALE: NTS
SHEET TITLE: PIPE / ACCESS OPENING SPECIFICATION
SHEET NUMBER: 5.0

*NOTE: DESIGN OF SYSTEM IS BY MANUFACTURER. ALL DESIGNS SHALL BE SIGNED & SEALED BY A STRUCTURAL ENGINEER. GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL COMPONENTS AND INSTALLATION OF THE SYSTEM INCLUDING THE CONCRETE BASE.



MAINE TOWNSHIP HS
DISTRICT 207



Wight & Company
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P 630.969.7000
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ISSUED FOR BID	12/09/2025	
REV	DESCRIPTION	DATE

**MAINE TOWNSHIP HS
DISTRICT 207**
SYNTHETIC TURF FIELD IMPROVEMENTS

MAINE WEST HIGH SCHOOL
1755 SOUTH WOLF ROAD
DES PLAINES, IL 60018

CIVIL DETAILS

Project Number:
240173
Drawn By:
HC
Sheet:

C5.07