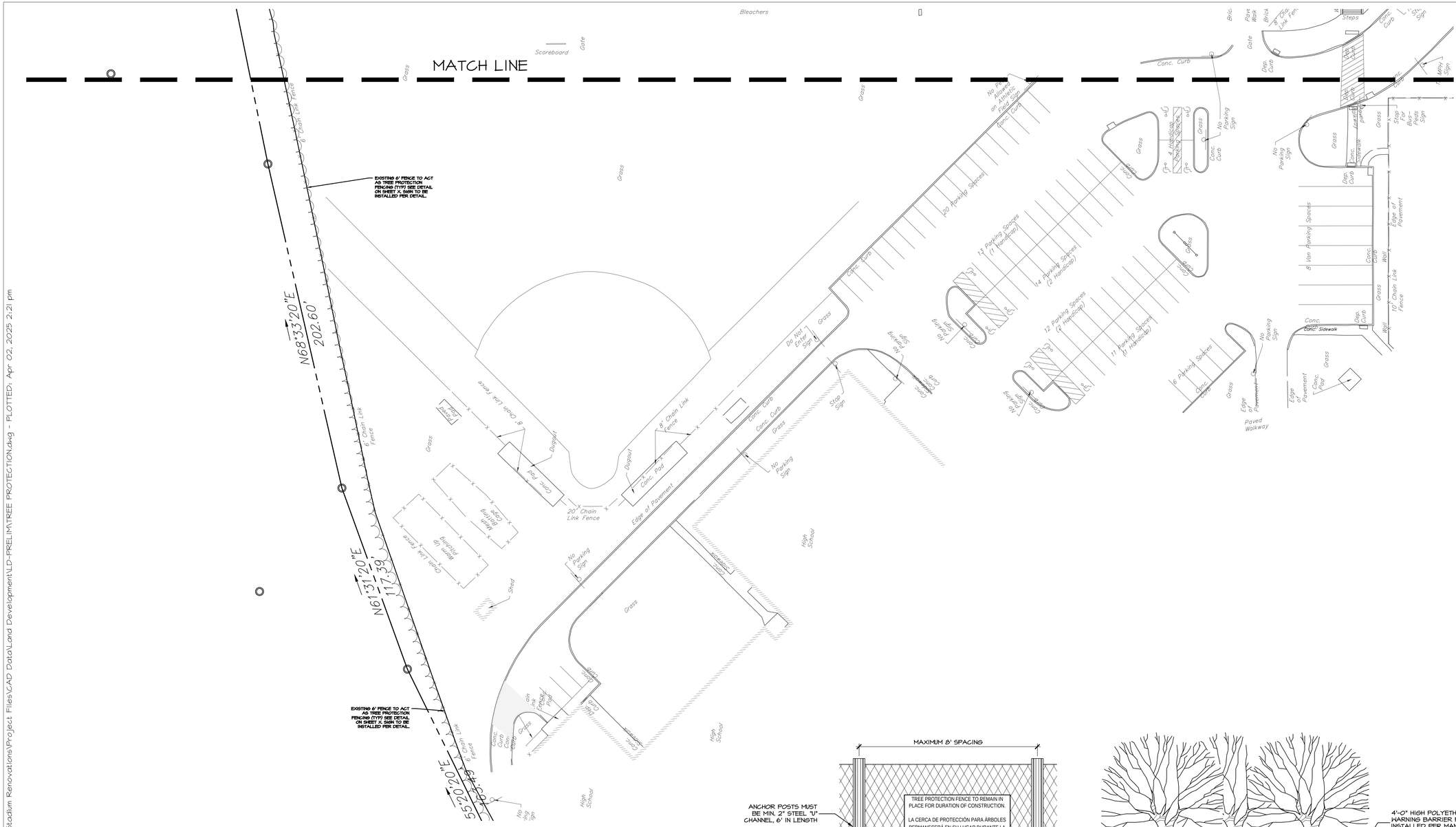
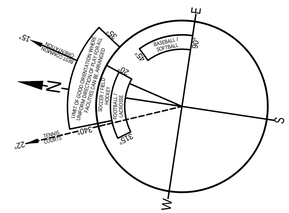


SITE LAYOUT LEGEND

- PROPERTY LINE
- EASEMENT LINE
- CENTERLINE
- RIGHT OF WAY LINE
- BUILDING SETBACK LINE
- FENCE LINE
- CONCRETE CURB
- CLEAR SIGHT TRIANGLE
- PROPOSED STORMWATER BASIN
- TREE LINE
- CONCRETE PAVING
- BITUMINOUS PAVING
- PROPOSED SANITARY SEWER MANHOLE
- CONCRETE MONUMENT
- PROPOSED STORM WATER INLET
- IRON PIN
- PROPOSED YARD DRAIN
- SIGNAGE
- PROPOSED STORM WATER MANHOLE
- PROPOSED FIRE HYDRANT
- HEADWALL/ENDWALL
- HANDICAP ACCESSIBLE PARKING
- NEW SITE LIGHT-SINGLE FIXTURE
- NEW SITE LIGHT-DOUBLE FIXTURE



SCALE IN FEET: 1" = 30'

0 15 30 60 90

TREE PROTECTION NOTES

TREE PROTECTION NOTES:
(SEE TREE PROTECTION SHEET FOR DETAIL)

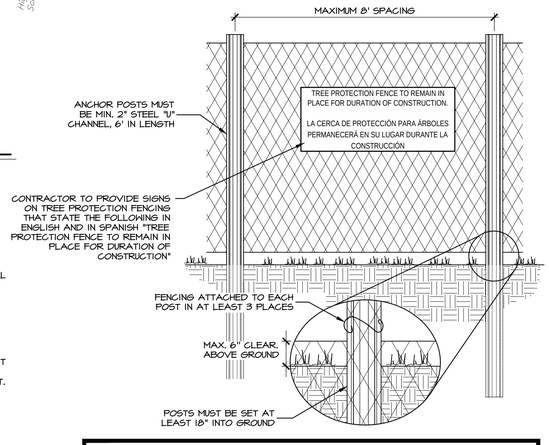
1. CONTRACTOR SHALL INSTALL ALL TREE PROTECTION FENCING AS INDICATED ON THE DRAWINGS AND DETAILS PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES ON THE PROJECT SITE.
2. EQUIPMENT SHALL NOT BE PERMITTED TO TRAVEL WITHIN A TREE PROTECTION ZONE, NOR ANY CONSTRUCTION MATERIALS/EQUIPMENT STORED WITHIN THE PROTECTION ZONE.
3. CUT AND FILL, GRADE CHANGE OR SOIL COMPACTION WITHIN A PROTECTION ZONE SHALL BE AVOIDED.
4. ALL UNDERGROUND UTILITIES SHALL BE ROUTED AROUND AND AWAY FROM ALL TREE PROTECTION ZONES. IF APPROVED BY THE PUBLIC WORKS DEPARTMENT, THE CITY ARBORIST OR THE URBAN FORESTER, TUNNELING, BORING OR OTHER METHOD OF PROJECT MODIFICATION UNDER OR AROUND THE TREE SHALL BE USED WHEN NEEDED TO PROTECT THE CONDITION AND SURVIVABILITY OF THE TREE.
5. NO TREE ROOTS OVER 2 INCHES IN DIAMETER SHALL BE PRUNED WITHOUT A SIGNED PERMIT FROM THE CITY. IF DURING EXCAVATION, ROOTS OVER 2 INCHES ARE ENCOUNTERED, CONTACT THE CITY ARBORIST / URBAN FORESTER IMMEDIATELY AT 717-823-7172. UNDER THEIR DIRECTION, ROOTS MAY BE CLEANLY CUT WITH A SHARP PRUNING TOOL. PROTECT EXPOSED ROOTS FROM DESICCATION BY THE USE OF GEOTEXTILE OR STRAW, AND BACKFILLING SHALL BE COMPLETED AS SOON AS POSSIBLE. WATER IMMEDIATELY AFTER BACKFILLING.
6. IF THE ANY TREE IMPACTED BY CONSTRUCTION OCCURS WHEN IN FULL LEAF, CONTACT THE URBAN FORESTER FOR DIRECTION ON THE AMOUNT OF IRRIGATION REQUIRED TO MAINTAIN THE CONDITION OF THE TREE.
7. ANY DAMAGE SUSTAINED BY TREES DURING CONSTRUCTION, SUCH AS BROKEN LIMBS, SEVERED ROOTS, OR SCARRED BARK SHALL BE REPORTED IMMEDIATELY TO THE URBAN FORESTER AND TREATED ACCORDING TO THEIR RECOMMENDATION.
8. ALL MEASURES TAKEN TO FURTHER PROTECT OR TREAT SUCH DAMAGED TREE SHALL BE DONE UNDER THE SUPERVISION OF THE URBAN FORESTER.

YOUNG TREE PRUNING TO ESTABLISH TREE STRUCTURE:

1. PRUNE COMPETING BRANCHES ON NEWLY PLANTED TREES TO REDUCE CO-DOMINANT STEMS AND ESTABLISH A DOMINANT LEADER. OTHER PRUNING OF ALL NEWLY PLANTED TREES SHALL INCLUDE: I) REMOVAL OF MALFORMED BRANCHES, B) REMOVAL OF CROSSING OR RUBBING BRANCHES, C) REMOVAL OF BRANCHES GROWING AT SHARP/UNUSUAL ANGLES, D) REMOVAL OF BADLY BROKEN BRANCHES, E) REMOVAL OF SUCKERS AND WATER SPROUTS. DO NOT REMOVE MORE THAN 25% OF A YOUNG TREE CANOPY IN ANY GIVEN YEAR WITHOUT APPROVAL OF THE CITY ARBORIST OR URBAN FORESTER.
2. TO REDUCE SUNSCALD, FORMATION OF INTERIOR TRUNK AND LIMB DECAY COLUMNS AND TREE RISK, THE ESTABLISHMENT OF PROPER TREE STRUCTURE INCLUDING THE USE OF PRUNING FOR THE ELIMINATION OF CO-DOMINANT STEMS, PROPER SPACING OF LATERAL BRANCHES, PROPER DEVELOPMENT OF ASPECT RATIO (RATIO OF THE DIAMETER OF A LATERAL BRANCH TO ITS STEM) AND LIFTING CANOPY FOR VIEWS AND TRAFFIC SHOULD BE ESTABLISHED OVER THE FIRST 25 YEARS OF A TREE'S LIFE.
3. TREE PRUNING SHALL FOLLOW THE LATEST VERSION OF THE AMERICAN NATIONAL STANDARDS INSTITUTE PRUNING STANDARDS (ANSI A300) AND/OR THE INTERNATIONAL SOCIETY OF ARBORICULTURE TREE PRUNING BEST MANAGEMENT PRACTICES.

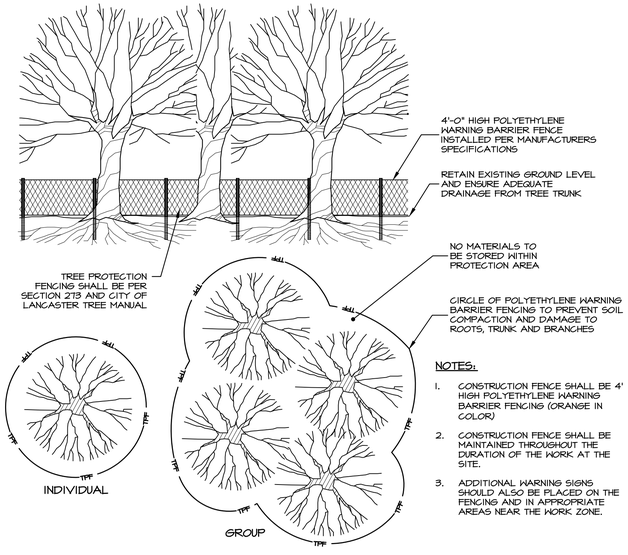
TREE PRESERVATION NOTES

1. PRIOR TO THE START OF ANY CLEARING, GRADING OR OTHER EARTH DISTURBANCE, ALL SHADE TREES AND OTHER VEGETATION TO BE PRESERVED SHALL BE PROTECTED BY A CONSPICUOUS FOUR-FOOT-HIGH TREE PROTECTION BARRIER TO PREVENT ENCROACHMENT INTO THE TREE PROTECTION ZONE BY PEOPLE, MATERIAL, AND VEHICLES. THE TREE PROTECTION BARRIER INSTALLATION MUST BE APPROVED BY THE ARBORIST AND MONITORED PERIODICALLY.
2. ALL LAND DEVELOPMENT PLANS OR LANDSCAPE PLANS SHALL SHOW ALL EXISTING TREES, CLEARLY LABELING ALL TREES PROPOSED TO BE PROTECTED AND THOSE SLATED FOR REMOVAL. ALL SHADE TREES ABUTTING SAID PROJECTS SHALL ALSO BE SHOWN ON THE PLANS ALONG WITH THE REQUIRED TREE PROTECTION ZONE.
3. A PROTECTED TREE ON PRIVATE PROPERTY SHALL INCLUDE ANY TREE WITH A DBH OF 12 INCHES OR MORE LOCATED ON ANY LOT WITHIN 20 FEET OF A STREET RIGHT-OF-WAY (INCLUDING AN APPROVED PRIVATE STREET OR OTHER ACCESS EASEMENT) OR ANY TREE WITH A DBH OF 24 INCHES OR MORE LOCATED ELSEWHERE ON THE LOT.



THE ENTIRE TREE CANOPY SHALL BE PROTECTED FROM ALL CONSTRUCTION RELATED ACTIVITIES. THE ARBORIST MAY APPROVE THE REMOVAL OF A SMALL PART OF THE CROWN TO FACILITATE CONSTRUCTION ACTIVITIES. SUCH WORK SHALL BE DONE UNDER THE DIRECT SUPERVISION OF THE ARBORIST, USING METHODS APPROVED BY THE ARBORIST. CONTACT ARBORIST TO DETERMINE WHETHER ANY CANOPY PRUNING IS NECESSARY TO PREVENT CONSTRUCTION INJURY TO PRESERVED TREES AND SCHEDULE ANY REQUESTS AND PRUNING WITH THE CITY ARBORIST TO CONSULT AND OVERSEE THIS WORK.

A TREE PROTECTION DETAIL
NO SCALE



NOTES:

1. CONSTRUCTION FENCE SHALL BE 4' HIGH POLYETHYLENE WARNING BARRIER FENCING (ORANGE IN COLOR)
2. CONSTRUCTION FENCE SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE WORK AT THE SITE.
3. ADDITIONAL WARNING SIGNS SHOULD ALSO BE PLACED ON THE FENCING AND IN APPROPRIATE AREAS NEAR THE WORK ZONE.

REVISIONS PER:		DATE:	BY:
1.	COL/LCCD COMMENTS	3/28/25	EWB
2.	-	-	-
3.	-	-	-
4.	-	-	-
5.	-	-	-

ELA SPORT
ATHLETIC FACILITIES DESIGN & CONSULTING
743 SOUTH BROAD STREET
LITITZ, PA 17543
(717) 626-7271 FAX (717) 626-7040
www.elasport.com

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — ELIZABETH WERNER BALDWIN — PE080726

PENNSYLVANIA — REGISTERED LANDSCAPE ARCHITECT — REGISTRATION NUMBER RA-414

STORMWATER MANAGEMENT PLAN

SUBJECT:
TREE PROTECTION PLAN
MCCASKEY HIGH SCHOOL
MCCASKEY HIGH SCHOOL STADIUM RENOVATIONS
CITY OF LANCASTER - LANCASTER COUNTY - PENNSYLVANIA

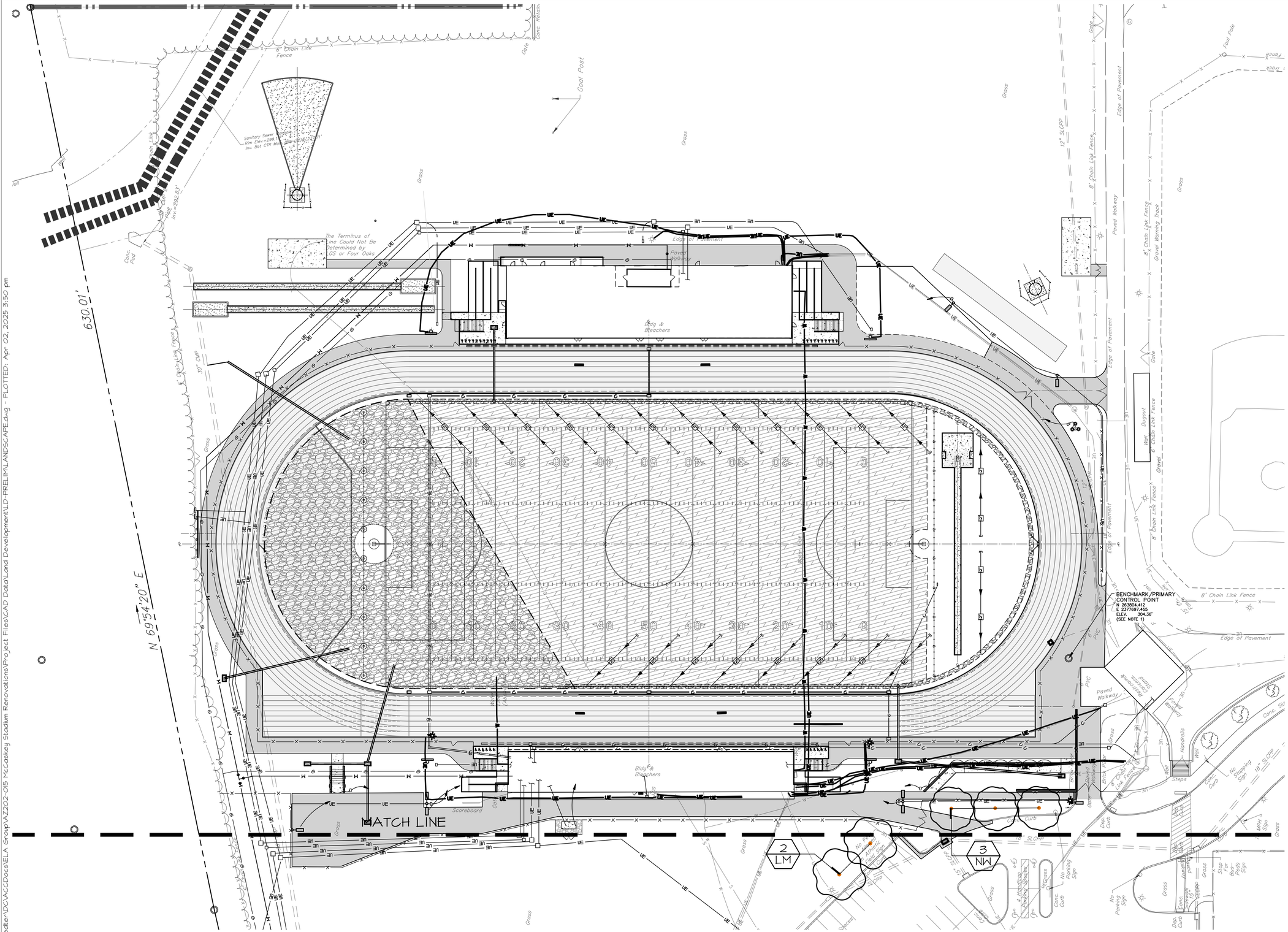
CLIENT:
MM ARCHITECTS
214 NORTH DUKE STREET
LANCASTER, PA 17602
(717) 393-3211

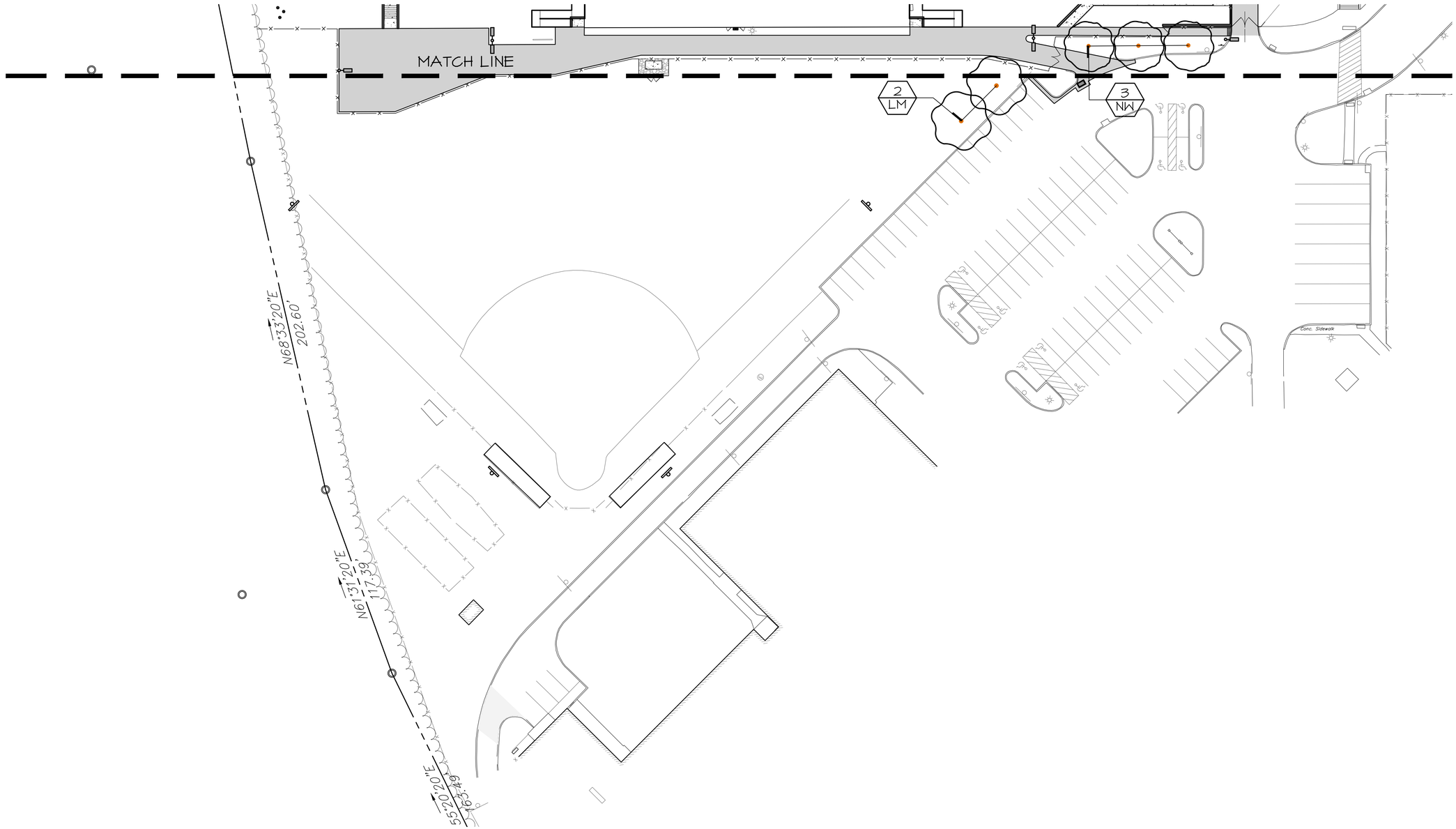
MANAGER:	HDC	DATE:	March 28, 2025
DESIGNER:	EWB	PROJECT NO.	AZ202-015
DRAWN BY:	JMT	SCALE:	########

DRAWING NO.
25 OF 53

DRAWING: C:\Users\jmoedter\DC\ACCDocs\ELA Group\AZ202-015 McCaskey Stadium Renovations\Project Files\CAD Data\Land Development\LD-PRELIMTREE PROTECTION.dwg - PLOTTED: Apr 02, 2025 2:21 pm

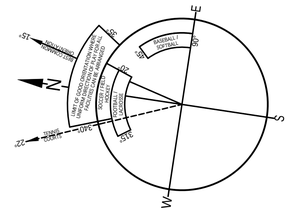
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630.01'
N 69°54'20" E
6' Chain Link Fence
Conc. Retain.
Gate
Goal Post
Grass
Sanitary Sewer Manhole
Rim Elev.=299.13'
Inv. Bot. CTE Min.=292.83'
Inv.=292.83'
Tall
Wall
Conc. Pad
Edge of Pavement
Paved Walkway
The Terminus of Line Could Not Be Determined by LGS or Four Oaks
Bldg. & Bleachers
8' Chain Link Fence
30" CMP
Gravel Warming Track
Gravel
Walk
Dugout
Foul Pole
Fence
Track
12" SLOPP
Scoreboard
MATCH LINE
BENCHMARK/PRIMARY CONTROL POINT
N 2638304.412
E 2377697.455
ELEV. 304.36'
(SEE NOTE 1)
2 LM
3 NW
Brick Paving
Steps
Handrails
Wall
Conc. Curb
No Stopping Sign
No Parking Sign
Stop For Bus-Pedestrian Sign
No Pedestrian Crossing Sign
Field Sign
4' Hydration Station
Bench
Flagpole
Trash Receptacle
Planter
Conc. Slab
Curb
Drop Curb
Ramp
Concrete Walk
Asphalt Walk
Pavement
Gutter
Inlet
Manhole
Hydrant
Valve
Post
Sign
Light
Tree
Shrub
Bush
Fence
Guard Rail
Utility Pole
Guy Wire
Overhead Wires
Underground Electric
Underground Telephone
Underground Cable TV
Underground Gas
Underground Water
Underground Storm Sewer
Underground Sanitary Sewer
Underground Combined Sewer
Underground Unknown
Underground Fiber Optic
Underground Communications
Underground Traffic Signal
Underground Irrigation
Underground Steam
Underground Chilled Water
Underground Hot Water
Underground Oil
Underground Gasoline
Underground Diesel
Underground Propane
Underground Natural Gas
Underground Liquid Petroleum
Underground Liquid Natural Gas
Underground Liquid Petroleum Gas



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SCALE IN FEET: 1" = 30'

0 15 30 60 90

CITY OF LANCASTER LANDSCAPE NOTES

LANDSCAPE CONTRACTOR NOTES:

1. CONTRACTOR SHALL CONTACT PA ONE CALL (8-1-1-), AND SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES WITHIN THE PROJECT AREA PRIOR TO INSTALLATION OF PLANT MATERIALS.
2. THE LANDSCAPE CONTRACTOR SHALL LOCATE AND VERIFY ALL UNDERGROUND UTILITIES PRIOR TO ANY PLANTING, AND SHALL FIELD-ADJUST THE LOCATIONS OF TREES AND SHRUBS, IF NECESSARY, TO AVOID CONFLICT WITH THESE UTILITIES. CONTACT THE LANDSCAPE ARCHITECT FOR APPROVAL OF ANY PROPOSED DESIGN CHANGES.
3. THIS PLAN IS FOR PLANTING INFORMATION ONLY. REFER TO GRADING, UTILITY, SITE LAYOUT AND SEDIMENT EROSION CONTROL PLANS FOR ALL RELATED INFORMATION.
4. ALL PLANTS AND SHRUBS SHALL BE AS SPECIFIED AND INSTALLED IN ACCORDANCE WITH THE DETAILS AND COMMENTS NOTED ON THESE DRAWINGS.
5. ALL PLANT MATERIALS SHALL BE SUBJECT TO APPROVAL OR REJECTION BY THE LANDSCAPE ARCHITECT OR THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. PLANT MATERIALS INSTALLED WITHOUT PRIOR APPROVAL ARE SUBJECT TO REPLACEMENT BY THE CONTRACTOR AS HIS/HER EXPENSE IF DETERMINED TO BE UNSATISFACTORY. REJECTED PLANT MATERIALS SHALL BE REMOVED IMMEDIATELY FROM PROJECT SITE.
6. PROPOSED LOCATIONS OF ALL NON-HERBACEOUS PLANT MATERIALS AND PLANTING BED OUTLINES SHALL BE STAKED AND OUTLINED IN THE FIELD BY THE CONTRACTOR FOR APPROVAL BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO PLANTING.
7. THE LANDSCAPE CONTRACTOR SHALL VERIFY ALL GRADES, DIMENSIONS AND EXISTING CONDITIONS, AND SHALL REPORT ANY IDENTIFIED DISCREPANCIES TO THE LANDSCAPE ARCHITECT. IF SITE WORK HAS BEEN MODIFIED AND DIFFERS FROM INFORMATION SHOWN ON THE APPROVED PLANS, AND POTENTIAL CHANGES TO THE PLANTING DESIGN ARE NECESSARY, THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT FOR INSTRUCTIONS.
8. PROCEED WITH WORK ONLY WHEN PRESENT AND FORECASTED WEATHER CONDITIONS PERMIT PLANTING WITHOUT EXCESSIVE SOIL COMPACTION AND/OR UNNECESSARY PLANT DAMAGE.
9. PLANT TREES, SHRUBS, AND OTHER PLANT MATERIALS AFTER FINISHED GRADES ARE ESTABLISHED, AND BEFORE PLANTING ANY TURF AREAS UNLESS OTHERWISE INDICATED.
10. THE CONTRACTOR SHALL INSPECT ALL PLANTING AREAS BEFORE ANY TOPSOIL IS PLACED OR PLANTING BEGINS TO ENSURE ADEQUATE DRAINAGE EXISTS. IF ANY AREAS TO BE PLANTED SHOW EVIDENCE OF POOR DRAINAGE, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY FOR CORRECTIVE ACTION. ANY PLANT MATERIAL THAT DIES DUE TO POOR OR INADEQUATE DRAINAGE SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
11. REMOVE ANY EXCESS SOIL FROM PLANT ROOT FLARES, IF PRESENT.
12. LANDSCAPE CONTRACTOR SHALL EXERCISE EXTREME CARE WHEN WORKING IN AREAS OF EXISTING VEGETATION THAT IS TO REMAIN AND TO BE PROTECTED. IF SUCH VEGETATION IS INJURED OR DESTROYED DURING CONSTRUCTION, IT SHALL BE REPLACED BY THE LANDSCAPE CONTRACTOR WITH PLANTS OF A SIZE AND SPECIES AS DETERMINED BY THE LANDSCAPE ARCHITECT, AND SUCH REPLACEMENT SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
13. PLANT QUANTITIES NOTED ON THE PLANT LIST SHOULD MATCH THE PLANT SYMBOL LABELS SHOWN ON THE DRAWINGS. CONTRACTOR SHALL PROVIDE AND INSTALL ALL PLANT MATERIAL BASED UPON THE LABEL FOR THAT PLANT AND SHALL CONTACT THE LANDSCAPE ARCHITECT IF A DIFFERENCE IS FOUND BETWEEN THE QUANTITIES NOTED IN THE PLANT LIST AND THE DRAWING LABELS.
14. ALL AREAS DISTURBED BY PLANTING OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT HIS/HER EXPENSE, AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.

SOIL PREPARATION:

1. PRIOR TO PLANTING, THE LANDSCAPE CONTRACTOR SHALL OBTAIN, AND FORWARD TO THE LANDSCAPE ARCHITECT, SOIL AGRONOMY TESTING REPORTS FROM AN APPROVED SOILS LABORATORY, SUCH AS PENNSYLVANIA STATE UNIVERSITY'S AGRICULTURAL ANALYTICAL SERVICES LABORATORY. TESTS SHALL BE COMPLETED FOR EACH EXISTING SOIL TYPE AND FOR EACH BATCH OF IMPORTED TOPSOIL. TESTS TO INCLUDE SOIL FERTILITY, PARTICLE SIZE, SAND SIEVE ANALYSIS, ORGANIC MATTER AND SOLUBLE SALTS. CONTRACTOR TO REQUEST SOIL AMENDMENT RECOMMENDATIONS FOR EACH CATEGORY OF TURF, PERENNIAL AND GROUNDCOVER TO BE INSTALLED IN THE SUBJECT SOIL. ALL SOIL AMENDMENTS SHALL BE INSTALLED FOR THE SOIL AGRONOMY REPORT IN AREAS OF LAWN, PERENNIAL AND GROUNDCOVER PLANTINGS ONLY, AND SHALL BE PROVIDED BY THE LANDSCAPE CONTRACTOR.
2. PERENNIAL AND BULB PLANTING AREAS SHALL HAVE AMENDED SOILS AS FOLLOWS:
   FOR EACH 100 SF AREA: 6 CU FT OF CLEAN COMPOST
   5-6 LBS HILORGANITE OR EQUAL
   2-3 LBS OF 0-20-20 FERTILIZER
3. NO FERTILIZERS TO BE PROVIDED FOR TREE OR SHRUB PLANTINGS.
4. APPLY AMENDMENTS ON-SITE, AND MIX SOIL TO FULLY ADDRESS ALL EXISTING SOIL DEFICIENCIES. DO NOT APPLY AMENDMENTS, NOR TILL IF EXISTING SOIL OR SUBGRADE IS FROZEN, MUDDY, OR EXCESSIVELY WET.
5. LANDSCAPE PLANTING AREAS SHALL BE FREE OF ANY DELETERIOUS MATERIALS OR LIQUID SUCH AS PAINT, PAINT WASHOUT, CONCRETE SLURRY, CONCRETE RUBBLE, CEMENT, PLASTER, OILS, GASOLINE, DIESEL FUEL, PAINT THINNER, TURPENTINE TAR, ROOFING COMPOUND, ACID, AND STONES LARGER THAN 3" IN ANY DIRECTION.
6. TOPSOIL SHALL BE PLACED AT A MINIMUM DEPTH OF 6".
7. IN ALL PLANTING AREAS, IF INSUFFICIENT TOPSOIL IS PRESENT PRIOR TO PLANTING, THE SITE CONTRACTOR SHALL PROVIDE AND PLACE THE REQUIRED TOPSOIL AT THE LANDSCAPE CONTRACTOR'S REQUEST. THE TOPSOIL SHALL BE ROUGH GRADED BY THE SITE CONTRACTOR AND FINISHED GRADED BY THE LANDSCAPE CONTRACTOR.
8. CONTRACTOR SHALL KILL OFF ANY EXISTING TURF AND UNWANTED VEGETATION WITHIN PROPOSED BED LIMITS. COMPLETE REMOVAL OF TURF BY MEANS OF A SOD CUTTER OR SCUFFING IS AN ACCEPTABLE ALTERNATIVE METHOD TO HERBICIDE APPLICATION. IF HERBICIDE IS NOT USED, THE CONTRACTOR SHALL COMPLETELY REMOVE ALL EXISTING PLANT ROOTS.

MULCH:

1. THE CONTRACTOR MAY APPLY A PRE-EMERGENT HERBICIDE PER THE MANUFACTURERS SPECIFICATIONS TO THE ENTIRE PLANTING BED FOR CONTROL OF WEED GERMINATION.
2. A LAYER OF NATURAL, NON-COLORED ORGANIC MULCH SHALL BE APPLIED ACROSS THE ENTIRE PLANTING BED AREA UNLESS OTHERWISE INDICATED ON THE PLAN. MULCH DEPTH SHALL NOT BE GREATER THAN 3" NOR LESS THAN 2".
3. MULCH SHALL BE ORGANIC, DOUBLE-CUT, NATURAL, UN-DYED AND FREE FROM DELETERIOUS MATERIALS.
4. MULCH SHALL NOT COVER THE CROWNS OF ANY HERBACEOUS PLANTS, NOR THE ROOT FLARES OF ANY WOODY PLANTS.
5. NO MULCH SHALL BE USED IN ANY BIORETENTION AREAS, IF THESE STORMWATER FACILITIES ARE INDICATED ON THE PLANS.

SEED ESTABLISHMENT NOTES:

1. GRASS SEED SHALL BE FRESH, CLEAN, DRY, NEW-CROP SEED COMPLYING WITH APSA'S "RULING FOR TESTING SEEDS" FOR PURITY AND GERMINATION TOLERANCES.
2. RECOMMENDED TIME FOR TURFGRASS SEEDING IS SEPTEMBER 1ST TO OCTOBER 15TH. WHERE SPRING SEEDINGS ARE NECESSARY, SEED NO LATER THAN APRIL 1ST FOR BEST RESULTS.
3. SOW RECOMMENDED SEED MIXTURE ADAPTED TO USE IN CLIMATIC CONDITIONS OF THE SPECIFIC SITE AREA.
4. PRIOR TO SEEDING, REMOVE ANY EXISTING VEGETATION FROM PROPOSED LAWN AREAS.
5. EXCESS DEAD VEGETATION SHOULD BE TURNED UNDER, IF THE SITE IS NOT TOO WET FOR TILLING WITHOUT EXCESSIVE SOIL COMPACTION.
6. IF TOPSOIL HAS BEEN DEPLETED OR REMOVED IN THE AREA TO BE SEEDED, PROVIDE SOIL AMENDMENTS PER THE AGRONOMY REPORT.
7. DIVIDE TOTAL SEED QUANTITY INTO TWO EQUAL LOTS, SOWING ONE LOT IN ONE DIRECTION, AND THE SECOND LOT AT RIGHT ANGLES TO THE REST WITH A MECHANICAL SEEDER OR SPREADER.
8. EXTRA CARE SHALL BE TAKEN TO ELIMINATE DEPRESSIONS OR AIR POCKETS BY ROLLING OR TAMPING LAWN BASE BEFORE INSTALLATION. ALL SOD MUST BE DELIVERED AND INSTALLED WITHIN 36 HOURS OF BEING CUT. SOD SHALL BE LAID SMOOTHLY, EDGE TO EDGE WITH STAGGERED JOINTS. IMMEDIATELY AFTER INSTALLATION, THE SOD SHALL BE WATERED TO A DEPTH OF 4" INTO THE SOIL.
9. MULCHING WITH STRAW, HYDROMULCH, OR FIBER MATS IS RECOMMENDED TO PROTECT SEED FROM DRYING OUT OR WASHING AWAY. HEAVY MULCHES SHOULD BE REMOVED FROM THE AREA WITHIN A FEW DAYS AFTER SEED GERMINATION.
10. BOUNDARIES OF NEWLY SEEDED AREAS SHALL BE WELL DEFINED WITH SIGNS OR OTHER MARKERS TO DETER INTRUSION UNTIL AREAS ARE FULLY ESTABLISHED.
11. CONTRACTOR IS RESPONSIBLE FOR TURF MAINTENANCE UNTIL SATISFACTORY TURF IS ESTABLISHED, AS DETERMINED BY THE LANDSCAPE ARCHITECT. MAINTENANCE TO INCLUDE WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING, REPLANTING, AND PERFORMING OTHER OPERATIONS AS REQUIRED TO ESTABLISH HEALTHY, VIABLE TURF, ROLL, REGRADE, AND REPLANT BARE OR ERODED AREAS AND REMULCH TO PRODUCE A UNIFORMLY SMOOTH TURF. PROVIDE MATERIALS AND INSTALLATION THE SAME AS THOSE USED IN THE ORIGINAL INSTALLATION.
    A. FILL IN AS NECESSARY SOIL SUBSIDENCE THAT MAY OCCUR BECAUSE OF SETTLING OR OTHER PROCESSES. REPLACE MATERIALS AND TURF DAMAGED OR LOST IN AREAS OF SUBSIDENCE.
    B. IN AREAS WHERE MULCH HAS BEEN DISTURBED BY WIND OR MAINTENANCE OPERATIONS, ADD NEW MULCH AND ANCHOR AS REQUIRED TO PREVENT DISPLACEMENT.
    C. APPLY TREATMENTS AS REQUIRED TO KEEP TURF AND SOIL FREE OF PESTS AND PATHOGENS OR DISEASE. USE INTEGRATED PEST MANAGEMENT PRACTICES WHENEVER POSSIBLE TO MINIMIZE THE USE OF PESTICIDES AND REDUCE HAZARDS.
12. WATERING: INSTALL AND MAINTAIN TEMPORARY PIPING, HOSES, AND TURF-WATERING EQUIPMENT TO CONVEY WATER FROM SOURCES AND TO KEEP TURF UNIFORMLY MOIST TO A DEPTH OF 4 INCHES.
    A. SCHEDULE WATERING TO PREVENT WILTING, PUDDLING, EROSION, AND DISPLACEMENT OF SEED OR MULCH. LAY OUT TEMPORARY WATERING SYSTEM TO AVOID WALKING OVER MUDDY OR NEWLY PLANTED AREAS.
    B. WATER TURF WITH FINE SPRAY AT A MINIMUM RATE OF 1 INCH PER WEEK UNLESS RAINFALL PRECIPITATION IS ADEQUATE.
13. MOW TURF AS SOON AS TOP GROWTH IS TALL ENOUGH TO CUT. REPEAT MOWING TO MAINTAIN SPECIFIED HEIGHT WITHOUT CUTTING MORE THAN ONE-THIRD OF GRASS HEIGHT. REMOVE NO MORE THAN ONE-THIRD OF GRASS-LEAF GROWTH IN INITIAL OR SUBSEQUENT MOWINGS. DO NOT DELAY MOWING UNTIL GRASS BLADES BEND OVER AND BECOME MATTED. DO NOT MOW WHEN GRASS IS WET.
14. TURF POST-FERTILIZATION. APPLY FERTILIZER AFTER INITIAL MOWING AND WHEN GRASS IS DRY. USE FERTILIZER THAT PROVIDES ACTUAL NITROGEN OF AT LEAST 1 LB/1000 SF OF TURF AREA.
15. SATISFACTORY TURF – TURF INSTALLATIONS SHALL MEET THE FOLLOWING CRITERIA AS DETERMINED BY LANDSCAPE ARCHITECT/ENGINEER. AT END OF MAINTENANCE PERIOD, A HEALTHY, UNIFORM, CLOSE STAND OF GRASS HAS BEEN ESTABLISHED, FREE OF WEEDS AND SURFACE IRREGULARITIES, WITH COVERAGE EXCEEDING 70 PERCENT OVER ANY 1- SF AREA AND BARE SPOTS NOT EXCEEDING 5 BY 5 INCHES.
16. CONTRACTOR TO USE SPECIFIED MATERIALS TO REESTABLISH TURF THAT DOES NOT COMPLY WITH REQUIREMENTS, AND CONTINUE MAINTENANCE UNTIL TURF IS SATISFACTORY.

PLANT STANDARDS:

1. ALL TREES SHALL HAVE BEEN NURSERY GROWN IN A CLIMATE SIMILAR TO THAT OF THE FINAL PLANTING SITE.
2. ALL PLANTS SHALL HAVE A NORMAL GROWTH HABIT AND SHALL BE SOUND, HEALTHY, AND VIGOROUS. THEY SHALL BE FREE FROM DISEASE, INSECTS, INSECT EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALE, INJURIES, ABRASIONS AND DISFIGUREMENT.
3. ALL PLANTING SHALL BE PERFORMED IN CONFORMANCE WITH GOOD NURSERY AND LANDSCAPE PRACTICE.
4. REQUIREMENTS FOR PLANT MEASUREMENTS, BRANCHING, GRADING, QUALITY, AND BALLING AND BURLAPPING SHALL FOLLOW THE CODE OF STANDARDS AS RECOMMENDED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC., IN THE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1, CURRENT EDITION, AS AMENDED AND A300 RESPECTIVELY. DO NOT PRUNE TO ATTAIN REQUIRED SIZES.
5. IF FORMAL PLANTING ARRANGEMENTS OR A CONSISTENT ORDER OF PLANTS IS INDICATED ON THE DRAWINGS, SELECT STOCK FOR UNIFORM HEIGHT AND SPREAD.
6. TREE PLANTING SHALL NOT COMMENCE UNTIL ALL CONSTRUCTION AND DISTURBANCE ACTIVITIES HAVE BEEN COMPLETED AND IN PROPER PLANTING SEASONS, WITH PRIOR APPROVAL BY THE CITY ARBORIST.
7. THE CONTRACTOR SHALL MAINTAIN ALL PLANTINGS PRIOR TO THE BEGINNING OF THE GUARANTEE PERIOD BY WATERING, DISEASE CONTROL, PRUNING AND WEEDING TO KEEP THE COMPLETED WORK AND/OR UNCOMPLETED WORK IN A CLEAN AND NEAT CONDITION AT ALL TIMES.

PLANT GUARANTEE:

1. ALL MATERIAL SHALL BE GUARANTEED FOR A PERIOD OF TWO FULL GROWING SEASONS AFTER INSTALLATION. FOLLOWING FINAL INSPECTION AND ACCEPTANCE OF THE WORK. PLANTS SHALL BE ALIVE AND IN SATISFACTORY GROWING CONDITION AT THE END OF THE GUARANTEE PERIOD.
2. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING GATOR BAGS FOR ALL NEWLY PLANTED TREES WITH A MINIMUM OF 10 GALLONS OF WATER PER INCH OF TRUNK DIAMETER PER WEEK. CONTRACTOR IS RESPONSIBLE FOR WATERING ALL SHRUB AND PERENNIAL PLANTINGS FOR THE DURATION OF THE GUARANTEE PERIOD (TWO FULL GROWING SEASONS) OR UNTIL WELL ESTABLISHED AND TO REMAIN HEALTHY, WHICHEVER IS GREATER.
3. THE CONTRACTOR SHALL GUARANTEE THAT PLANTS SHALL BE IN VIGOROUS AND THRIVING CONDITION AT THE END OF THE GUARANTEE PERIOD. SHOULD ANY PLANTS APPEAR TO BE IN POOR HEALTH OR LACK NORMAL GROWTH HABIT, AS DETERMINED BY THE LANDSCAPE ARCHITECT, THEY SHALL BE REMOVED AT ONCE AND REPLACED.
4. DURING THE TIME BETWEEN THE INSTALLATION OF PLANTS AND THE BEGINNING OF THE GUARANTEE PERIOD, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE SUPERINTENDENCE OF THE PLANTINGS. SHOULD ANY PLANT BE STOLEN OR OTHERWISE REMOVED, ANY SUCH PLANT SHALL BE REPLACED BY THE CONTRACTOR. THE GUARANTEE PERIOD WILL BEGIN WHEN ALL PLANS ARE INSTALLED AS SHOWN AND SPECIFIED IN THESE PLANS.
5. WITHIN THE GUARANTEE PERIOD, THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY MAINTENANCE PRACTICES BEING FOLLOWED OR OMITTED WHICH WOULD BE DETRIMENTAL TO THE HEALTHY VIGOROUS GROWING CONDITIONS OF THE PLANTS.
6. INSPECTION TO DETERMINE WORK COMPLETION FOR BEGINNING OF THE TWO FULL GROWING SEASONS PERIOD WILL BE MADE BY THE OWNER, LANDSCAPE ARCHITECT AND THE CITY ARBORIST/URBAN FORESTER UPON WRITTEN NOTICE OF REQUESTING SUCH INSPECTION SUBMITTED BY THE CONTRACTOR AT LEAST 5 BUSINESS DAYS PRIOR TO THE ANTICIPATED INSPECTION DATE.
7. ONCE ANY AND ALL DEFICIENCIES ARE ADDRESSED, THE CONTRACTOR WILL BE NOTIFIED OF THE DATE THAT WORK HAS BEEN APPROVED FOR BEGINNING OF THE GUARANTEE PERIOD. DURING THIS GUARANTEE PERIOD, THE CONTRACTOR IS RESPONSIBLE FOR PROPER WATERING THROUGH USE OF WATERING BAGS OR OTHER METHODS ACCEPTABLE TO THE CITY ARBORIST.
8. TWO FULL GROWING SEASONS FROM THE START OF THE PLANT GUARANTEE PERIOD, THE CONTRACTOR, OWNER, LANDSCAPE ARCHITECT AND CITY ARBORIST/URBAN FORESTER WILL INSPECT THE SITE TO LOCATE ANY PLANTS THAT ARE NOT IN VIGOROUS AND THRIVING CONDITION. A SITE INSPECTION REPORT WILL BE ISSUED TO THE CONTRACTOR. THE CONTRACTOR WILL HAVE 30 DAYS TO REPLACE ANY PLANTS IDENTIFIED AS FAILING THE GUARANTEE STANDARD.

REVISIONS PER:		DATE:	BY:
1.	COL/LCCD COMMENTS	3/28/25	EWB
2.	-	-	-
3.	-	-	-
4.	-	-	-
5.	-	-	-

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — ELIZABETH WERNER BALDWIN — ENGINEER — PE080728

PENNSYLVANIA — REGISTERED LANDSCAPE ARCHITECT

STORMWATER MANAGEMENT PLAN

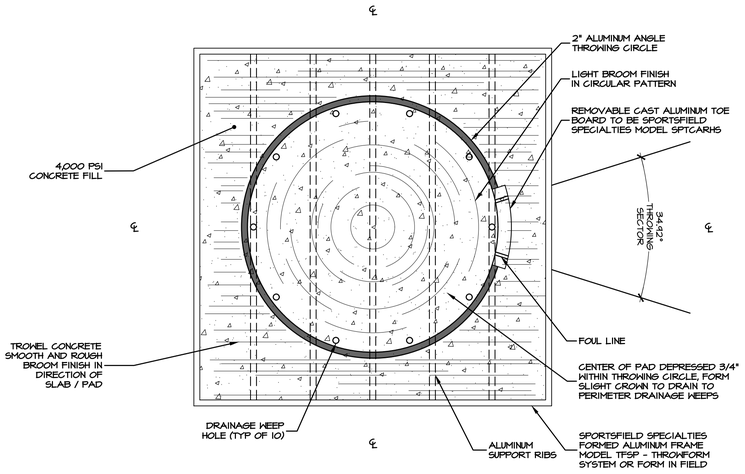
SUBJECT:
LANDSCAPE PLAN
MCCASKEY HIGH SCHOOL
MCCASKEY HIGH SCHOOL STADIUM RENOVATIONS
CITY OF LANCASTER - LANCASTER COUNTY - PENNSYLVANIA

CLIENT:
MM ARCHITECTS
214 NORTH DUKE STREET
LANCASTER, PA 17602
(717) 393-3211

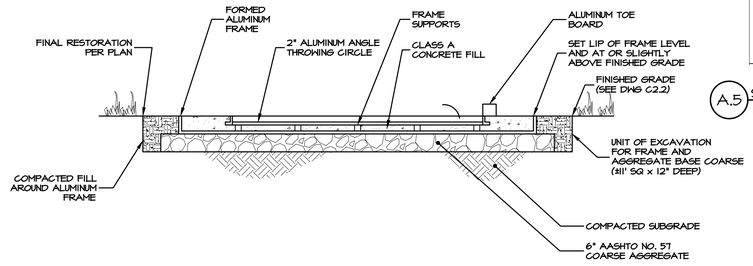
MANAGER:	HDC	DATE:	March 27, 2025
DESIGNER:	EWB	PROJECT NO.	AZ202-015
DRAWN BY:	JMT	SCALE:	1" = 30'

DRAWING NO.
27 OF 53

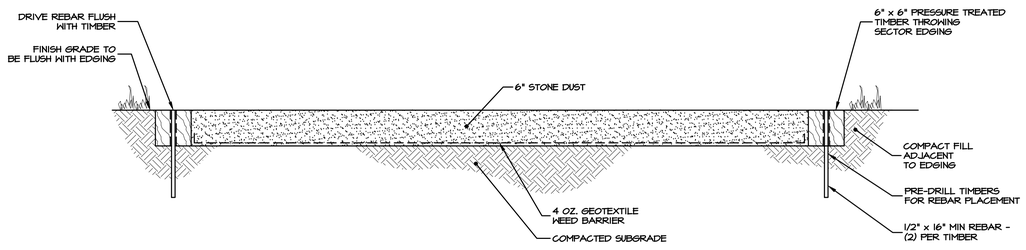
DRAWING: C:\Users\jmtoedter\DCACCDocs\ELA Group\AZ202-015 McCaskey Stadium Renovations\Project Files\CAD Data\Land Development\LD-PRELIMLANDSCAPE.dwg - PLOTTED: Apr 02, 2025 2:21 pm



A.1 SHOT PUT PLAN
SCALE: 1/2" = 1'-0"

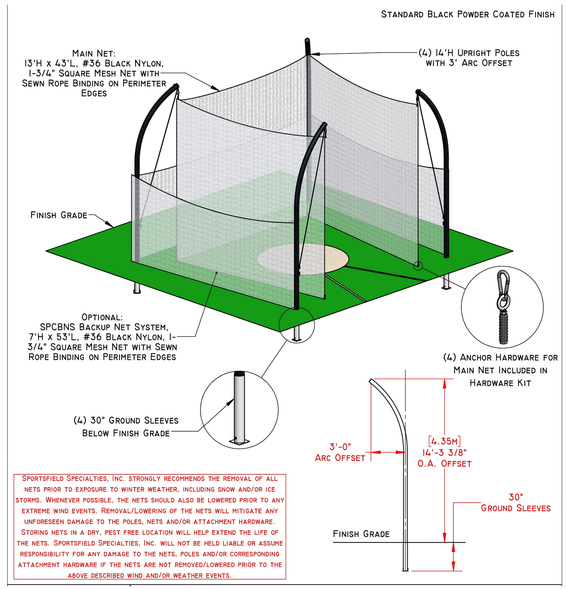


A.2 SHOT PUT SECTION
SCALE: 1/2" = 1'-0"

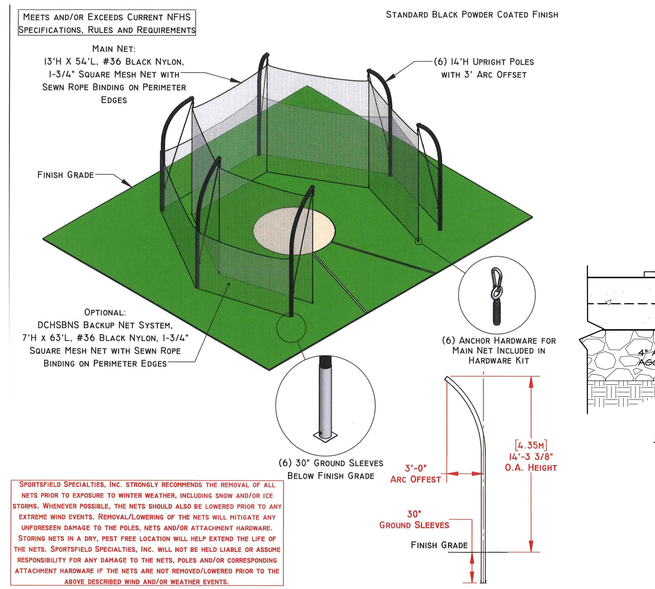


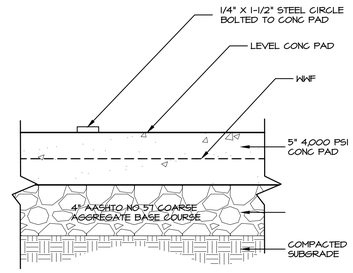
A.3 SHOT PUT THROWING SECTOR - TYPICAL SECTION
SCALE: 1" = 1'-0"

A/28 SHOT PUT PAD AND THROWING SECTOR
SCALE: AS NOTED

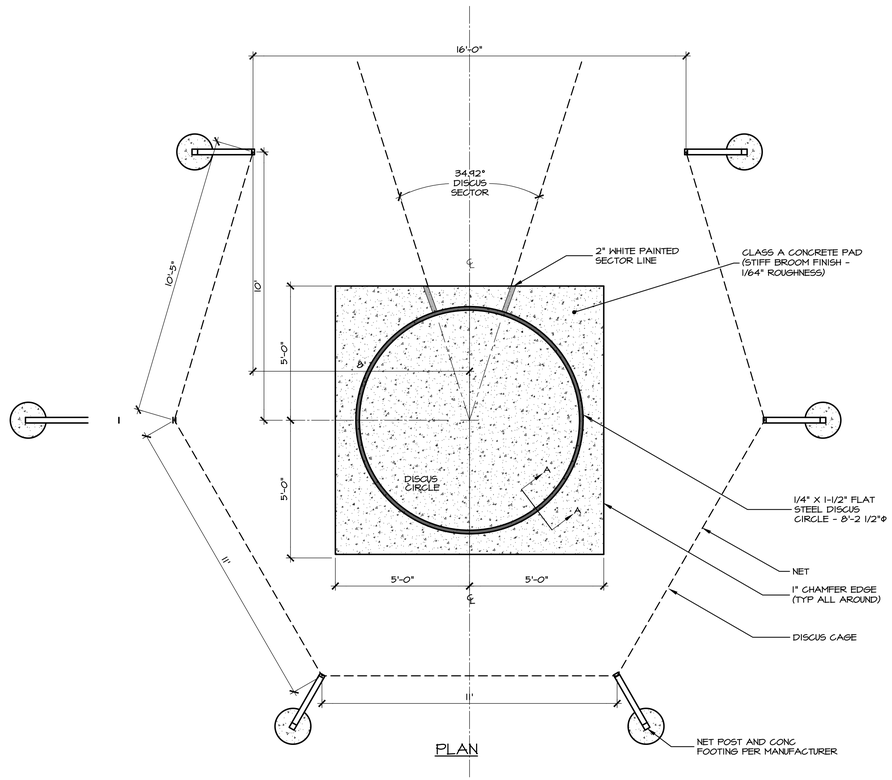


A.5 SHOT PUT THROWING CAGE - SPORTSFIELD SPECIALTIES CUT SHEET (SPC)
NOT TO SCALE





SECTION A-A



PLAN

B/28 34.92-DEGREE DISCUS PAD AND HIGH SCHOOL DISCUS CAGE
SCALE: 3/8" = 1'-0"

REVISIONS PER:		DATE:	BY:
1.	COL/LCCD COMMENTS	3/28/25	EWB
2.	-	-	-
3.	-	-	-
4.	-	-	-
5.	-	-	-

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ELIZABETH WERNER BALDWIN ENGINEER PE080758

PENNSYLVANIA REGISTERED LANDSCAPE ARCHITECT

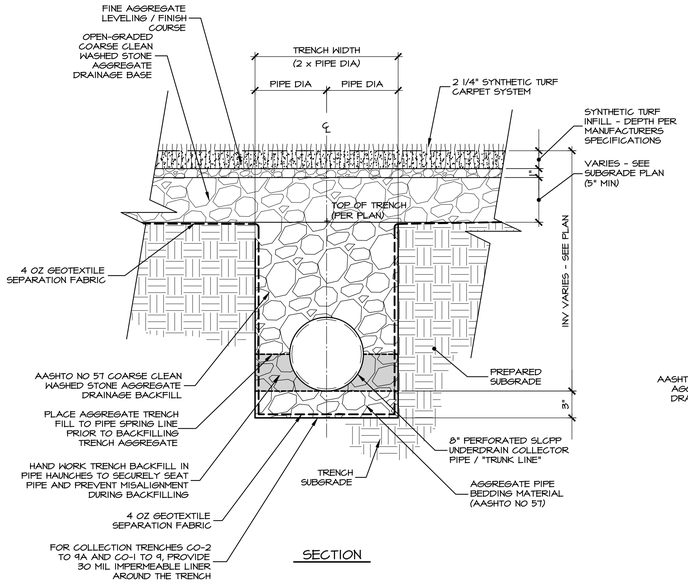
STORMWATER MANAGEMENT PLAN

SUBJECT:
SITE DETAILS
MCCASKEY HIGH SCHOOL
MCCASKEY HIGH SCHOOL STADIUM RENOVATIONS
CITY OF LANCASTER - LANCASTER COUNTY - PENNSYLVANIA

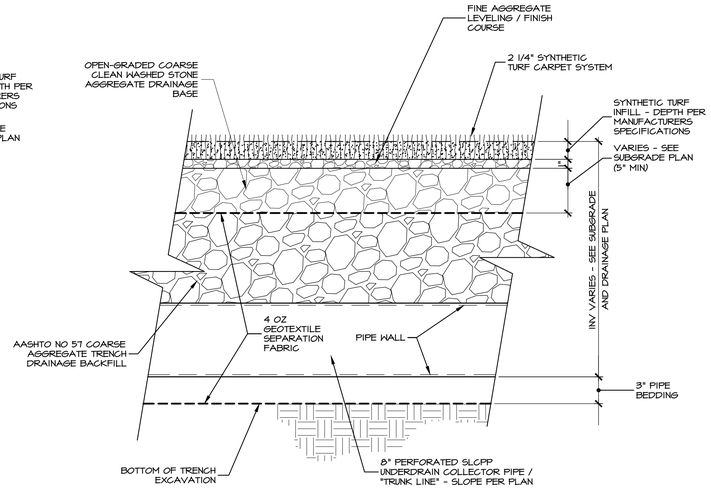
CLIENT:
MM ARCHITECTS
214 NORTH DUKE STREET
LANCASTER, PA 17602
(717) 393-3211

MANAGER:	HDC	DATE:	January 30, 2025
DESIGNER:	EWB	PROJECT NO.	AZ202-015
DRAWN BY:	JMT	SCALE:	AS SHOWN

DRAWING NO.
28 OF 53



SECTION



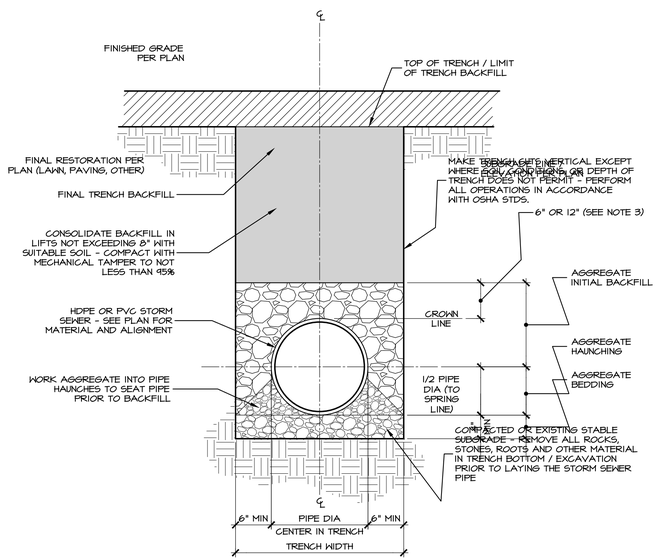
ELEVATION

A/29 TYPICAL SYNTHETIC TURF FIELD COLLECTION TRENCH

SCALE: 1 1/2" = 1'-0"

TRENCHING AND BACKFILL NOTES:

1. REMOVE UNSUITABLE SUBGRADE TO A MINIMUM DEPTH OF 2-FEET BELOW THE TRENCH INVERT ELEVATION. BACKFILL AND COMPACT TO THE REQUIRED DENSITY USING COARSE AGGREGATE AS APPROVED BY THE ENGINEER.
2. HAND TRIM EXCAVATIONS WHERE REQUIRED TO REMOVE ROCK PROTRUSIONS, LARGE STONES, ROOTS, AND OTHER IRREGULARITIES THAT COULD AFFECT PLACEMENT AND BACKFILLING OF THE DRAINAGE PIPE.
3. CONFORM TO OSHA EXCAVATION STANDARDS, 29 CFR, PART 1926, SUBPART B. PROTECT ALL OPEN TRENCH EXCAVATIONS FROM ACCIDENTAL ENCROACHMENT.
4. BEGIN EXCAVATION FOR TRENCHES AT THE LOWER INVERT AND PROCEED UPGRADE.
5. SEPARATE AND STORE SOIL MATERIALS SUITABLE FOR FINAL TRENCH BACKFILL. REMOVE UNSUITABLE MATERIALS FROM PROJECT SITE OR PLACE WHERE PERMITTED AS PART OF GENERAL FILLING PROCEDURES.
6. ALL TRENCH EXCAVATIONS SHALL BE COMPLETELY FREE OF STANDING WATER PRIOR TO BACKFILLING. DEWATER TRENCHES WHEN REQUIRED.
7. REMOVE ALL SLOUGHED AND LOOSE MATERIALS FROM THE TRENCH EXCAVATION PRIOR TO PLACEMENT OF ANY BACKFILL MATERIAL.
8. DO NOT BACKFILL TRENCHES WITH WET OR FROZEN MATERIAL.
9. PLACE EMBEDMENT AND BACKFILL MATERIALS IN LIFTS AND IN A MANNER THAT WILL NOT DISTURB OR DAMAGE THE DRAINAGE PIPE OR JOINTS. USE COMPACTION EQUIPMENT APPROPRIATE FOR THE TRENCH WIDTH AND TYPE OF BACKFILL MATERIAL. DO NOT PERMIT HEAVY EQUIPMENT TO OPERATE DIRECTLY OVER THE DRAINAGE PIPE UNTIL SUITABLE COVER IS ESTABLISHED.
10. COMPACT ALL TRENCH BACKFILL IN LIFTS TO ACHIEVE A UNIFORM MINIMUM DENSITY OF NOT LESS THE 95-PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557, MODIFIED PROCTOR.



B/29 TYPICAL HDPE STORM SEWER TRENCH AND BACKFILL - NON FIELD AREAS

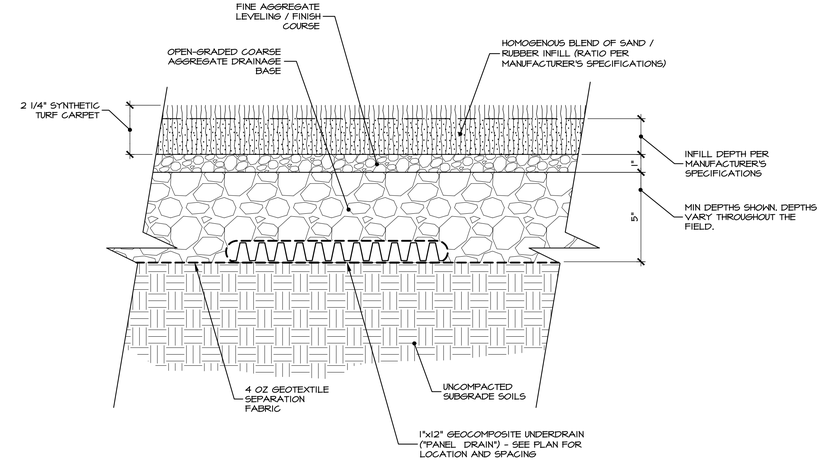
SCALE: 1" = 1'-0"

GENERAL NOTES:

1. MINIMUM AGGREGATE INITIAL BACK FILL COVER SHALL BE A MINIMUM OF 6" FOR POLYETHYLENE PIPE AND 12" FOR POLYVINYL CHLORIDE PIPE. COVER MAY BE INCREASED TO PROTECT PIPE DURING CONSTRUCTION LOADING CONDITIONS.
2. PROVIDE 6" BEDDING MATERIAL WHERE ROCK OR OTHER UNYIELDING MATERIAL IS PRESENT AT THE TRENCH SUBGRADE.

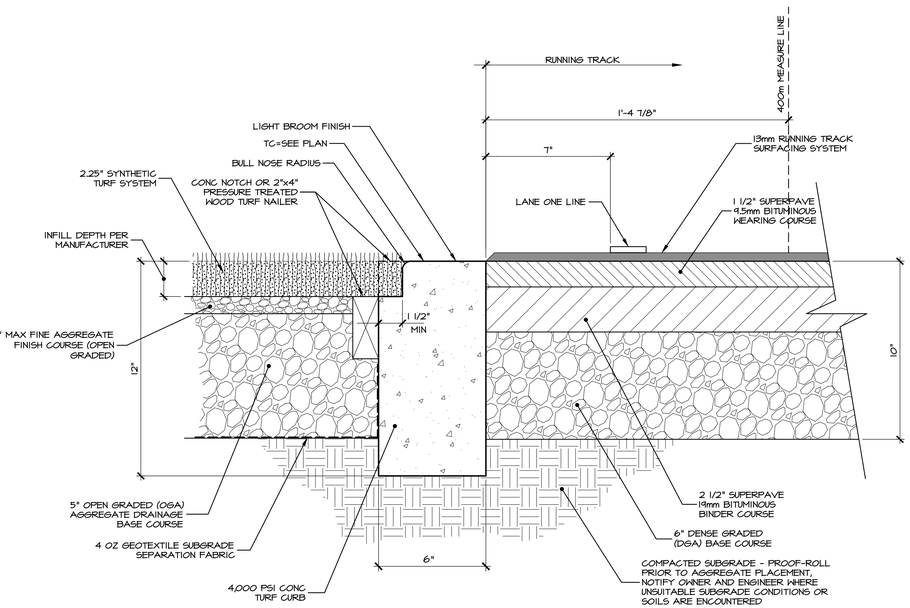
BEDDING, HAUNCHING, AND BACKFILL MATERIAL NOTES

1. BEDDING: BEDDING MATERIAL, MEASURED FROM THE TRENCH SUBGRADE TO BOTTOM OF DRAINAGE PIPE, SHALL BE OPEN-GRADED, CLEAN AGGREGATE CLASS-1A MATERIAL IN ACCORDANCE WITH ASTM-D2321. CLASS-1A BEDDING IS NOT RECOMMENDED FOR TRENCHES CONSTRUCTED IN SOILS SUBJECT TO GROUND WATER INFILTRATION DUE TO MIGRATION OF FINES FROM ADJACENT SOILS.
2. HAUNCHING: HAUNCHING MATERIAL, MEASURED FROM THE TOP OF THE BEDDING MATERIAL TO THE SPRING-LINE OF THE DRAINAGE PIPE, SHALL BE OPEN-GRADED, CLEAN AGGREGATE CLASS-1A MATERIAL IN ACCORDANCE WITH ASTM-D2321, OR DENSE-GRADED MANUFACTURED OR PROCESSED AGGREGATE CLASS-1B MATERIAL IN ACCORDANCE WITH ASTM-D2321.
3. INITIAL BACKFILL: INITIAL BACKFILL MATERIAL, MEASURED FROM THE TOP OF THE HAUNCHING MATERIAL TO SIX-INCHES ABOVE THE CROWN OF THE POLYETHYLENE DRAINAGE PIPE OR 12-INCHES ABOVE THE CROWN OF THE DRAINAGE PIPE FOR PVC MATERIAL, SHALL BE OPEN-GRADED, CLEAN AGGREGATE CLASS-1A MATERIAL IN ACCORDANCE WITH ASTM-D2321, OR DENSE-GRADED MANUFACTURED OR PROCESSED AGGREGATE CLASS-1B MATERIAL IN ACCORDANCE WITH ASTM-D2321.
4. FINAL TRENCH BACKFILL: FINAL BACKFILL MATERIAL, MEASURED FROM THE TOP OF THE INITIAL BACKFILL TO THE SUBGRADE ELEVATION, IN PAVED OR STRUCTURAL AREAS SHALL MEET THE REQUIREMENTS OF CLASS II OF III MATERIAL IN ACCORDANCE WITH ASTM-D2321 MEETING THE SOIL CLASSIFICATIONS OF GW, GP, SW, SP, GM, GC, SM, OR SC, PER ASTM-D2487; SELECT TRENCH EARTH FILL, CLASS IV MATERIALS AS DESCRIBED IN ASTM-D2321; GENERAL FILL MAY BE USED FOR FINAL TRENCH BACKFILL IN PAVED AREAS WHEN APPROVED FOR USE BY A REGISTERED GEOTECHNICAL ENGINEER RETAINED BY THE CONTRACTOR.



C/29 TYPICAL SYNTHETIC TURF FIELD AND AGGREGATE BASE CROSS-SECTION

SCALE: 3" = 1'-0"



D/29 TYPICAL SECTION AT CONC TURF CURB AND RUNNING TRACK

SCALE: 3" = 1'-0"

REVISIONS PER:	DATE:	BY:
1. COL/LCCD COMMENTS	3/28/25	EWB
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3. -	-	-
4. -	-	-
5. -	-	-

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — ELIZABETH WERNER BALDWIN — COMMONWEALTH OF PENNSYLVANIA

PENNSYLVANIA — REGISTERED LANDSCAPE ARCHITECT — REGISTRATION NUMBER RA-015

STORMWATER MANAGEMENT PLAN

SUBJECT:

SITE DETAILS

MCCASKEY HIGH SCHOOL

MCCASKEY HIGH SCHOOL STADIUM RENOVATIONS

CITY OF LANCASTER - LANCASTER COUNTY - PENNSYLVANIA

CLIENT:

MM ARCHITECTS

214 NORTH DUKE STREET

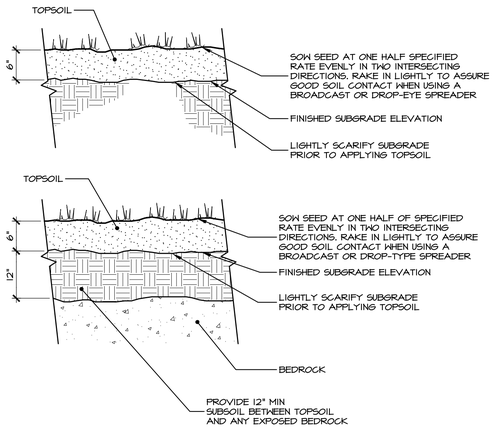
LANCASTER, PA 17602

(717) 393-3211

MANAGER:	HDC	DATE:	January 30, 2025
DESIGNER:	EWB	PROJECT NO.	AZ202-015
DRAWN BY:	JMT	SCALE:	AS SHOWN

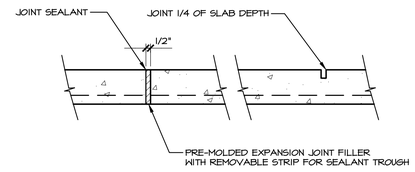
DRAWING NO.

29 OF 53

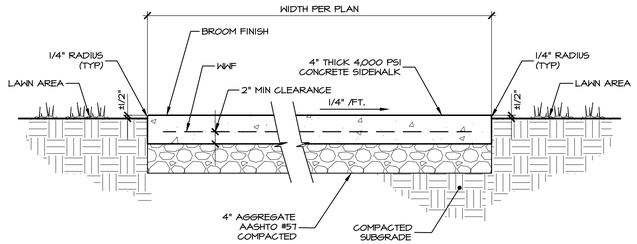


A 30 LAWN PLANTING DETAIL

NO SCALE

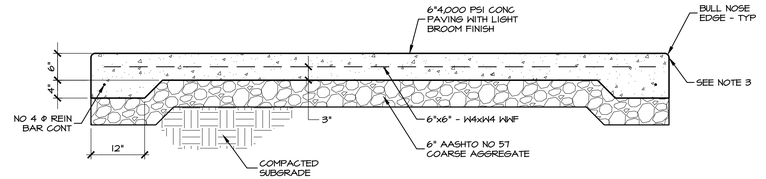


TYPICAL EXPANSION & CONTRACTION JOINTS



C 30 CONCRETE SIDEWALK DETAIL

NOT TO SCALE

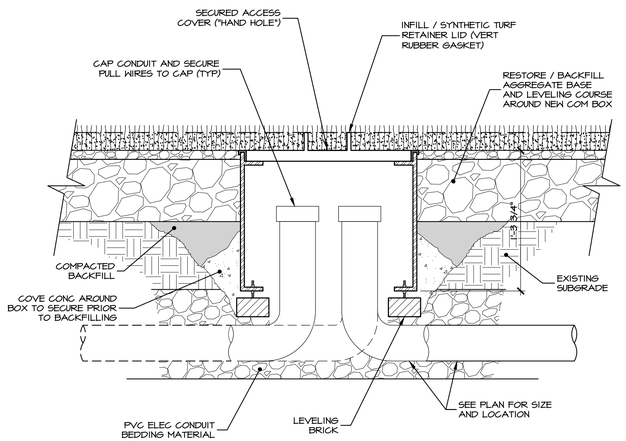


NOTES:

1. PROVIDE EJ WITH FILLER WHERE SLAB EXCEEDS 30' IN ANY DIMENSION. PLACE EJ AT MIDPOINT OF SLAB.
2. DIMENSIONS AS NOTED ON DRAWINGS. VERIFY SLAB DIMENSIONS WITH PORTABLE BLEACHER DIMENSIONS PRIOR TO CONSTRUCTION.
3. SEAL JOINT WITH AC-20 WHERE BITUMINOUS PAVING IS ADJACENT. PROVIDE EJ WITH SEALANT WHERE ADJACENT TO CONC PAVING.
4. SLOPE PAD TO DRAIN IN ONE DIRECTION AT 0.5% MIN TO 1.0% MAX.

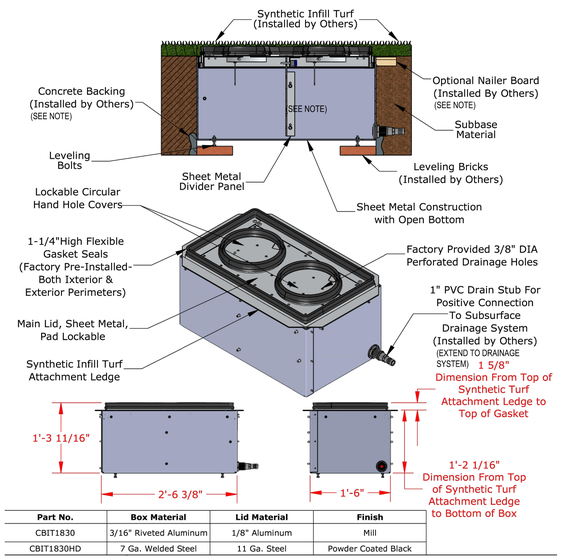
D 30 CONCRETE BLEACHER PAD

SCALE: 3/4" = 1' - 0"



B.1 TYPICAL SECTION - COMMUNICATION (COM) BOX

SCALE: 1 1/2" = 1'-0"



Part No.	Box Material	Lid Material	Finish
CBIT1830	3/16" Riveted Aluminum	1/8" Aluminum	Mill
CBIT1830HD	7 Ga. Welded Steel	11 Ga. Steel	Powder Coated Black

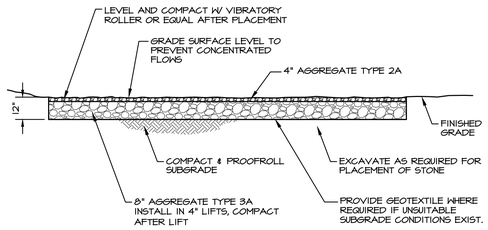
NOTE: "BY OTHERS" ON MANUFACTURER CUT SHEET MEANS FIELD INSTALL / PROVIDE UNDER THE WORK OF THIS CONTRACT.

B.2 MANUFACTURER CUT SHEET (CBIT1830)

NOT TO SCALE

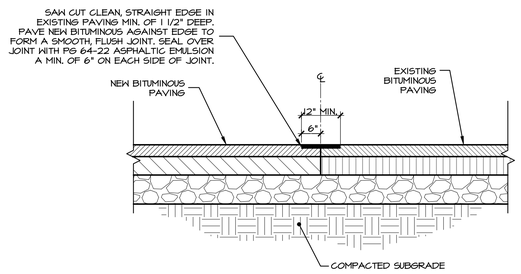
B 30 COMMUNICATION (COM) BOX - SYNTHETIC TURF INSTALLATION

SCALE: AS NOTED



E 30 STONE PAVING SECTION

NO SCALE



F 30 SAWCUT/BITUMINOUS PAVING JOINT

NOT TO SCALE

REVISIONS PER:	DATE:	BY:
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5. -	-	-

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ELIZABETH WERNER BALDWIN ENGINEER 082807 PENNSYLVANIA

PENNSYLVANIA HIGH SCHOOL REGISTRATION NUMBER 001-C REGISTERED LANDSCAPE ARCHITECT

STORMWATER MANAGEMENT PLAN

SUBJECT:

SITE DETAILS

MCCASKEY HIGH SCHOOL

MCCASKEY HIGH SCHOOL STADIUM RENOVATIONS

CITY OF LANCASTER - LANCASTER COUNTY - PENNSYLVANIA

CLIENT:

MM ARCHITECTS

214 NORTH DUKE STREET

LANCASTER, PA 17602

(717) 393-3211

MANAGER:	HDC	DATE:	January 30, 2025
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DRAWN BY:	JMT	SCALE:	AS SHOWN

DRAWING NO.

30 OF 53

CHAIN LINK FENCE NOTES AND SPECIFICATIONS

GENERAL

A. ALL FENCE MATERIALS SHALL BE MANUFACTURED OF STEEL PRODUCED IN THE U.S.A., EXCEPT POST TOPS, RAIL ENDS, AND TIES MAY BE MANUFACTURED OF ALUMINUM. ALL MATERIALS AND FABRICATION SHALL BE IN ACCORDANCE WITH THE STANDARDS LISTED HEREIN.

B. ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE NOMINAL. VERIFY ACTUAL DIMENSIONS, GATE OPENINGS, AND INSTALLATION REQUIREMENTS IN FIELD.

C. DETAILS PROVIDED ON DRAWINGS ARE TYPICAL AND MAY REQUIRE MODIFICATION FOR FIELD INSTALLATION OR MAY NOT DIRECTLY APPLY. PROVIDE FENCING AND GATES OF DIMENSIONS, MATERIALS, AND GENERAL CONFIGURATION AS INDICATED ON THE DRAWINGS. FINAL FENCING AND GATE COMPONENTS FABRICATION AND INSTALLATION SHALL BE IN ACCORDANCE WITH APPROVED SHOP DRAWINGS.

D. REVIEW ALL GATE INSTALLATIONS, SWING, AND EXTENT OF OPERATION WITH OWNER IN FIELD PRIOR TO INSTALLATION.

REFERENCES

A. ASTM F567 PRACTICE FOR INSTALLATION OF CHAIN LINK FENCE

B. ASTM F626 SPECIFICATION FOR FENCE FITTINGS

C. ASTM F668 SPECIFICATION FOR POLYVINYL CHLORIDE (PVC) AND OTHER ORGANIC POLYMER-COATED STEEL CHAIN LINK FENCE FABRIC

D. ASTM F900 SPECIFICATION FOR INDUSTRIAL AND COMMERCIAL SWING GATES

E. ASTM F1043 SPECIFICATION FOR STRENGTH AND PROTECTIVE COATINGS ON STEEL INDUSTRIAL CHAIN LINK FENCE FABRIC

F. ASTM F1083 SPECIFICATION FOR PIPE, STEEL, HOT-DIP ZINC COATED (GALVANIZED) WELDED, FOR FENCE STRUCTURES

G. ASTM F1184 SPECIFICATION FOR INDUSTRIAL AND COMMERCIAL HORIZONTAL SLIDE GATES

H. RR-F-191/3E FEDERAL SPECIFICATION FOR FENCING, WIRE AND POST METAL (AND GATES, CHAIN LINK, FENCE FABRIC AND ACCESSORIES) POSTS, TOP RAIL, BRACES

MATERIALS

A. CHAIN LINK FENCE FABRIC:

1. 1 3/4-INCH DIAMOND MESH WITH MINIMUM 9-GAUGE WIRE (0.148") DIAMETER. FABRIC FOR CHAIN LINK BACKSTOP SHALL BE 1 3/4" DIAMOND MESH WITH MINIMUM 6-GAUGE WIRE.
2. SELVAGE FINISH AT TOP AND BOTTOM SHALL BE KNUCKLED.
3. FABRIC HEIGHT AS SCHEDULED ON DRAWINGS AND AS VERIFIED IN FIELD BASED UPON EXISTING FENCE HEIGHT.
4. COATING: POLYMER-COATED CLASS 2B IN ACCORDANCE WITH ASTM F668, BLACK IN COLOR.

B. CHAIN LINK FENCE POSTS:

1. ASTM F1043 GROUP IA, ASTM 1083 STANDARD WEIGHT SCHEDULE 40 HOT-DIP GALVANIZED PIPE HAVING A ZINC COATING OF 1.8 OZ/SF ON THE OUTSIDE AND INSIDE SURFACE OF THE PIPE.
2. EXTERIOR OF FENCE POST PIPE TO HAVE THERMALLY FUSED POLYMER-COATING (ELECTROSTATIC POWDER COAT), 15 YEAR NO MAR WARRANTY, BLACK IN COLOR.
3. POST SIZE: BASED UPON THE HEIGHT OF THE FENCE AND DIAMETER NOT LESS THAN FEDERAL SPECIFICATION RR-F-191/3E, OR GUIDELINES OF THE CLFMI, EXCEPT AS NOTED FOR DUGOUT FOUL LINE FENCING WHICH SHALL UTILIZE LARGER POSTS AS NOTED.

C. HORIZONTAL AND BRACE RAILS:

1. PROVIDE HORIZONTAL BRACE RAILS AT TOP AND BOTTOM OF FENCE. USE OF TENSION WIRE IS NOT PERMITTED. PROVIDE IN ACCORDANCE WITH ASTM F1043, TABLE 3, HEAVY INDUSTRIAL, OR SPECIFICATION F1083.
2. EXTERIOR OF HORIZONTAL AND BRACE RAILS TO HAVE THERMALLY FUSED POLYMER-COATING IN ACCORDANCE WITH ASTM F1043, BLACK IN COLOR.

D. FITTINGS:

1. CONFIRM TO ASTM F626.
2. FITTINGS SHALL BE POLYMER COATED TO MATCH FABRIC AND FENCE FRAMEWORK.
3. WIRE TIES FOR AND HORIZONTAL RAIL SHALL BE MINIMUM 11-GUAGE STEEL AND POLYMER COATED TO MATCH FABRIC.

E. GATES:

1. GATES SHALL BE FABRICATED IN ACCORDANCE WITH SPECIFICATION ASTM F900 FOR SWING GATES OR ASTM F1184 FOR SLIDE GATES.
2. GATE FRAMES AND ACCESSORIES SHALL BE POLYMER-COATED AFTER WELDING / FABRICATION. "TOUCHED-UP" GATE FRAMES ARE NOT PERMITTED.
3. CHAIN LINK FABRIC SHALL BE POLY-VINYL COATED TO MATCH FENCE FABRIC AND SHALL BE MIN 11 GAUGE WIRE.
4. SWING GATES SHALL ME MANUFACTURED AND INSTALLED TO SWING OUTWARD (AWAY) FROM FIELD LINES, COURT AREAS, AND RUNNING TRACKS.

INSTALLATION

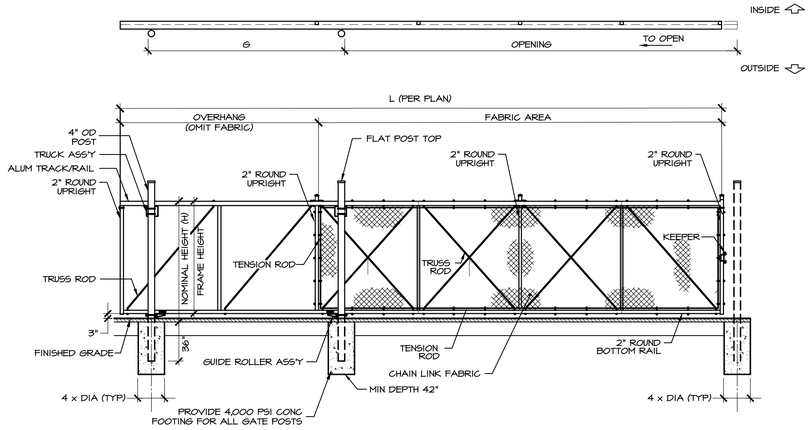
A. INSTALL CHAIN LINK FENCE IN ACCORDANCE WITH ASTM F567 AND DETAILS/DIAGRAMS AS INCLUDED ON DRAWINGS.

B. INSTALL FENCE FABRIC ON THE PLAYING SIDE OF THE FENCE FOR ALL ATHLETIC FIELDS, COURTS, AND RUNNING TRACKS.

C. BOTTOM OF FENCE FABRIC SHALL BE NO HIGHER THAN 1-INCH ABOVE FINISHED GRADE OR PAVED SURFACE OF COURT AREAS. TOP OF FENCE FABRIC SHALL NOT EXTEND ABOVE THE TOP RAIL. MAX DEVIATION OF 1/2 OF MESH DIMENSION TOLERANCE.

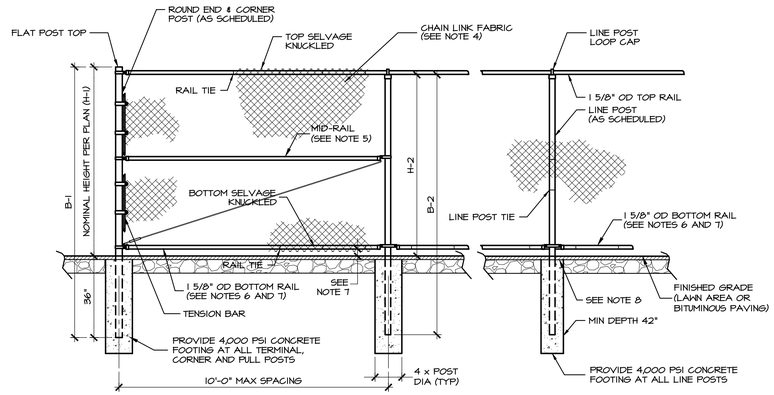
D. FENCES SHALL NOT HAVE ANY BARBS, SELVAGE ENDS, OR TIES EXPOSED OVER THE TOP RAIL OR WITHIN THE AREA OF THE FENCE.

E. FENCE AND GATE POST FOOTINGS SHALL BE PLACED BELOW FINISHED PAVING (OR AT SUBGRADE) FOR PAVED AREAS AND A MINIMUM OF 2-INCHES BELOW FINISHED GRADE FOR GRASS/LAWN AREAS. SAW CUTTING OR CORING FOR FOOTING PLACEMENT IN NEW ASPHALT PAVING IS NOT PERMITTED.



CANTILEVERED SLIDE GATE ELEVATION - (2) BAYS SHOWN

A/31 CHAIN LINK CANTILEVER SLIDE GATE
NOT TO SCALE

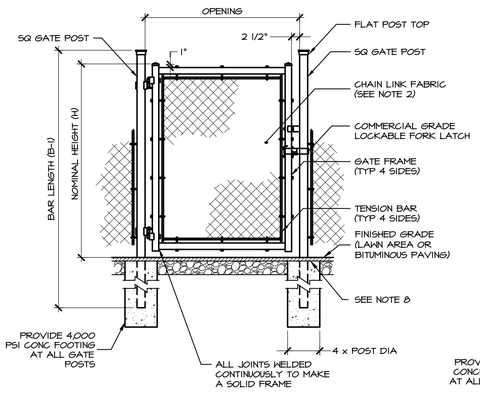


CHAIN LINK FENCE ELEVATION

FENCE HEIGHT	END & CORNER POSTS			LINE POSTS		
NOMINAL HEIGHT	B-1 BAR LENGTH	H-1 HEIGHT ABOVE GRADE	ROUND PIPE (OD)	B-2 BAR LENGTH	H-2 HEIGHT ABOVE GRADE	ROUND PIPE (OD)
3'-6"	6'-6"	3'-6 5/8"	2 1/2"	6'-2"	3'-2 7/8"	2"
6'-0"	9'-0"	6'-0 5/8"	2 1/2"	8'-8"	5'-8 7/8"	2"
8'-0"	11'-0"	8'-0 5/8"	3"	10'-8"	7'-8 7/8"	2 1/2"

C/31 CHAIN LINK FENCE
NOT TO SCALE

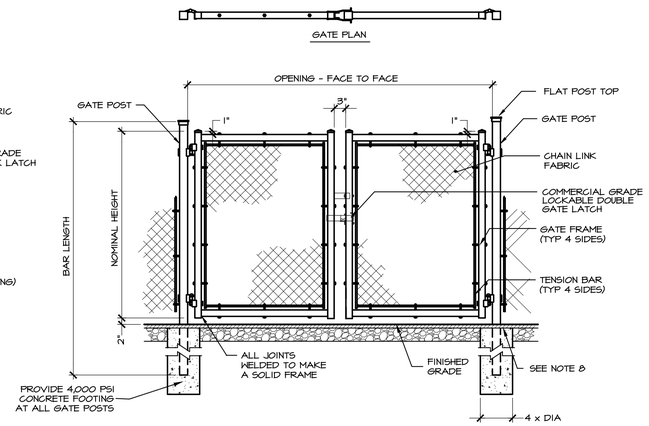
GATE PLAN



SINGLE SWING CHAIN LINK GATE ELEVATION

SINGLE LEAF SWING GATE		
NOMINAL HEIGHT (H)	UPRIGHT HEIGHT (U)	FRAME HEIGHT (F)
3'-6"	3'-4"	3'-2 1/2"
6'-0"	5'-10"	5'-8 1/2"
8'-0"	7'-10"	7'-8 1/2"
OPENING	GATE POSTS (SEE NOTE 2)	HINGE SPACE (S)
3' TO 6'	2 1/2" SQ	2 1/4"

GATE PLAN



DOUBLE SWING CHAIN LINK GATE ELEVATION

DOUBLE LEAF SWING GATE		
NOMINAL HEIGHT (H)	UPRIGHT HEIGHT (U)	FRAME HEIGHT (F)
3'-6"	3'-4"	3'-2 1/2"
6'-0"	5'-10"	5'-8 1/2"
8'-0"	7'-10"	7'-8 1/2"
OPENING	GATE POSTS	HINGE SPACE (S)
8'-12'	2 7/8" OD	2 1/4"
14'-24'	4" OD	2 1/4"

B/31 CHAIN LINK SWING GATES
NOT TO SCALE

CHAIN LINK FENCE AND GATE NOTES

1. ALL FENCE MATERIALS SHALL BE STEEL AND PRODUCED AND MANUFACTURED IN THE U.S.A. EXCEPT FENCE POST TOPS, RAIL ENDS, AND TIES MAY BE ALUMINUM. ALL MATERIALS AND FABRICATION SHALL CONFORM TO THE CHAIN LINK FENCE MANUFACTURERS INSTITUTE (CLFMI) PRODUCT MANUAL, LATEST EDITION.
2. PROVIDE MANUALLY OPERATED SWING GATES OR CANTILEVER SLIDE GATES AS DESIGNATED ON DRAWINGS.
3. ALL DIMENSIONS ARE NOMINAL. VERIFY ACTUAL FENCE DIMENSIONS AND GATE OPENINGS IN FIELD.
4. ALL FENCE FABRIC, POSTS, RAILS, GATE FRAMES, STRETCHER BARS, AND OTHER PARTS SHALL BE PVC COATED, MEETING THE REQUIREMENTS OF CLFMI STANDARD GUIDE FOR POLYVINYL CHLORIDE (PVC). ALL COATINGS SHALL CONFORM TO CLASS 2b (FUSED), BLACK, PER ASTM 934.
5. PROVIDE MID-RAIL AND TRUSS ROD AT ALL CORNERS OF FENCE, ADJOINING ALL GATES, AND AT ALL TERMINAL ENDS OF FENCE GREATER THAN FOUR (4) FEET IN HEIGHT.
6. PROVIDE BOTTOM RAIL AND TOP RAIL CONTINUOUS FOR ALL FENCE.
7. POSITION BOTTOM OF FABRIC 2" ABOVE FINISHED GRADE FOR PERIMETER FENCING. POSITION BOTTOM OF FABRIC 1" ABOVE FINISHED GRADE FOR ATHLETIC FIELD FENCING.
8. SET TOP OF FOOTING 3" MIN BELOW FINISHED GRADE IN GRASS/LAWN AREAS. SET TOP OF FOOTING AT FINISHED GRADE OF PAVEMENT AT BITUMINOUS PAVED AREAS.
9. DETAILS ARE TYPICAL - ALL DETAILS FOR FENCE AND GATES MAY NOT APPLY. PROVIDE FENCE AND GATES AS SCHEDULED ON THE DRAWINGS, IN ACCORDANCE WITH THE APPLICABLE DETAILS ON THIS SHEET, AND PER SUBMITTALS AS APPROVED BY THE OWNER.
10. COMPLY WITH ASTM F900 FOR FABRICATION OF ALL GATE FRAMES. FABRICATE USING RECTANGULAR TUBULAR MEMBERS, WELDED AT ALL CORNERS TO FORM A RIGID ONE-PIECE UNIT. POLYMER COAT ALL GATE FRAMES TO MATCH ADJOINING FENCE FRAMEWORK IN ACCORDANCE WITH ASTM F900.
11. USE SQUARE GATE POSTS FOR ALL GATES - WHERE A CONFLICT EXISTS BETWEEN THE SCHEDULE AND APPLICABLE STANDARDS, CONFORM TO ASTM F900 FOR FRAMING AND GATE POSTS.

REVISIONS PER:	DATE:	BY:
1. COL/LCCD COMMENTS	3/28/25	EWB
2. -	-	-
3. -	-	-
4. -	-	-
5. -	-	-

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED LANDSCAPE ARCHITECT — REGISTRATION NUMBER 001715

STORMWATER MANAGEMENT PLAN

SUBJECT:

SITE DETAILS

MCCASKEY HIGH SCHOOL

MCCASKEY HIGH SCHOOL STADIUM RENOVATIONS

CITY OF LANCASTER - LANCASTER COUNTY - PENNSYLVANIA

CLIENT:

MM ARCHITECTS
214 NORTH DUKE STREET
LANCASTER, PA 17602
(717) 393-3211

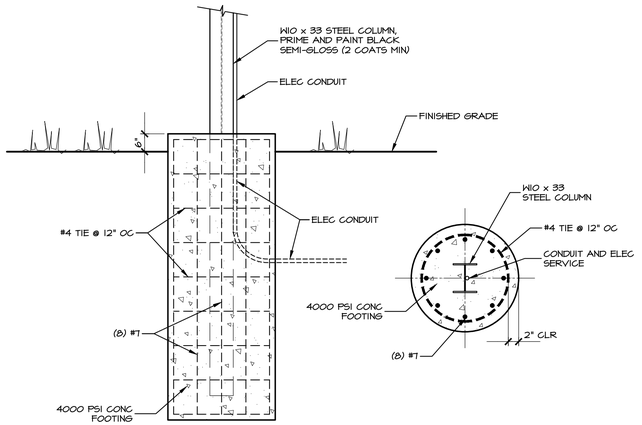
MANAGER:	HDC	DATE:	January 30, 2025
DESIGNER:	EWB	PROJECT NO.	AZ202-015
DRAWN BY:	JMT	SCALE:	AS SHOWN

DRAWING NO.

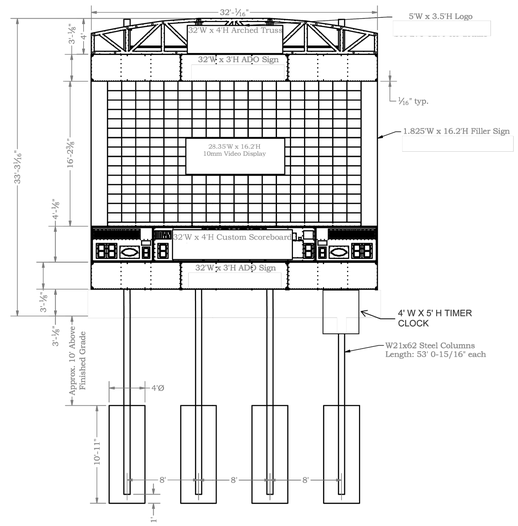
31 OF 53

NOTES:

1. COLUMN STEEL TO BE GRADE A992 (50 KSI STEEL MIN).
2. BRACING STEEL TO BE ASTM A500 GRADE B MIN.
3. MINIMUM BOLT GRADE: A307.
4. PER IBC STANDARDS, WELDS TO CONFORM TO AWS STANDARDS.
5. SCOREBOARD TO BE PROVIDED BY OWNER, INSTALLATION BY CONTRACTOR.



A.1 FOOTER
SCALE: 1/2" = 1'-0"



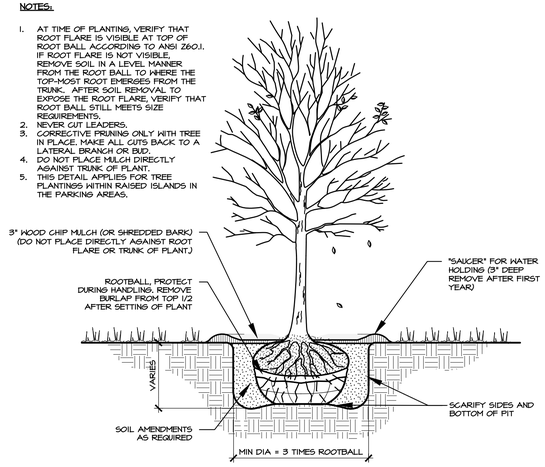
A.2 ELEVATION
NOT TO SCALE

A 32 SCOREBOARD INSTALLATION

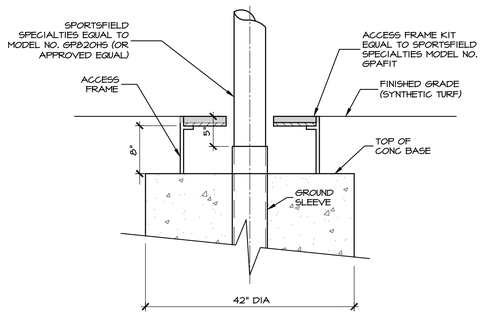
SCALE: AS NOTED

NOTES:

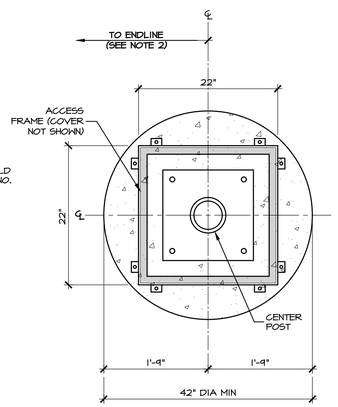
1. AT TIME OF PLANTING, VERIFY THAT ROOT FLARE IS VISIBLE AT TOP OF ROOT BALL ACCORDING TO ANSI Z60.1. IF ROOT FLARE IS NOT VISIBLE, REMOVE SOIL IN A LEVEL MANNER FROM THE ROOT BALL TO WHERE THE TOP-MOST ROOT EMERGES FROM THE TRUNK. AFTER SOIL REMOVAL TO EXPOSE THE ROOT FLARE, VERIFY THAT ROOT BALL STILL MEETS SIZE REQUIREMENTS.
2. NEVER CUT LEADERS.
3. CORRECTIVE PRUNING ONLY WITH TREE IN PLACE. MAKE ALL CUTS BACK TO A LATERAL BRANCH OR BUD.
4. DO NOT PLACE MULCH DIRECTLY AGAINST TRUNK OF PLANT.
5. THIS DETAIL APPLIES FOR TREE PLANTINGS WITHIN RAISED ISLANDS IN THE PARKING AREAS.



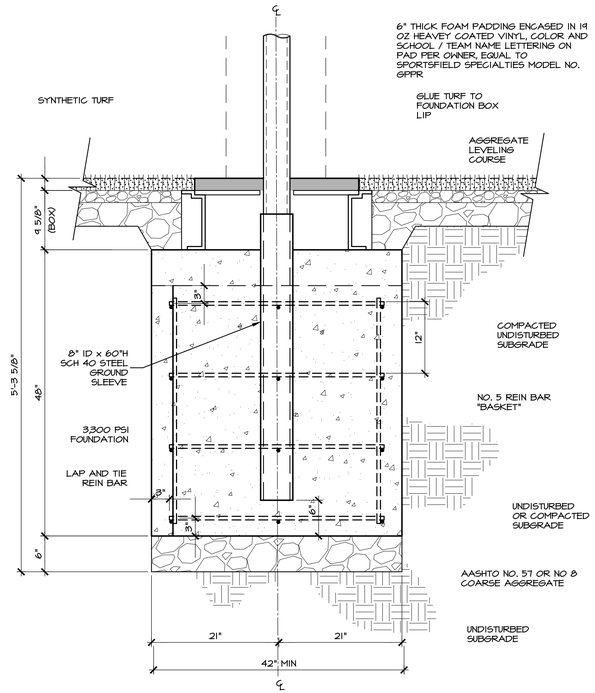
C 32 DECIDUOUS TREE PLANTING DETAIL
NOT TO SCALE



B.1 BASE SECTION
NOT TO SCALE



B.2 BASE / FOOTING PLAN
NOT TO SCALE



B.3 FOUNDATION AND BOX SECTION

NOTES:

1. PROVIDE A TWO-PIECE REMOVABLE ACCESS FRAME COVER AND A ONE-PIECE COVER (FOR USE WHEN THE GOAL IS REMOVED) AT EACH ACCESS FRAME. INSTALL APPROVED RESILIENT MATERIAL, ON THE ACCESS FRAME COVERS. THE COVERS SHALL FIT SNUG WHEN INSTALLED AND SHALL BE LEVEL WITH THE ADJOINING FIELD SURFACES.
2. VERIFY REQUIRED MOUNTING DISTANCE WITH MANUFACTURER'S DRAWINGS. THE GOAL POST SHALL BE LOCATED SO THAT THE "FACE" OF THE CROSSBAR ALIGNS WITH, AND IS PARALLEL TO, THE INSIDE EDGE OF THE END ZONE END LINE.
3. INSTALL GOAL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, SPECIFICATIONS AND SHOP DRAWINGS (AS REVIEWED AND APPROVED BY ENGINEER).

B 32 8' OFFSET GOAL POST BASE / FOOTING

NOT TO SCALE

D 32 PLAY CLOCK INSTALLATION
SCALE: 1/2" = 1'-0"

REVISIONS PER:	DATE:	BY:
1. COU/LCCD COMMENTS	3/28/25	EWB
2. -	-	-
3. -	-	-
4. -	-	-
5. -	-	-

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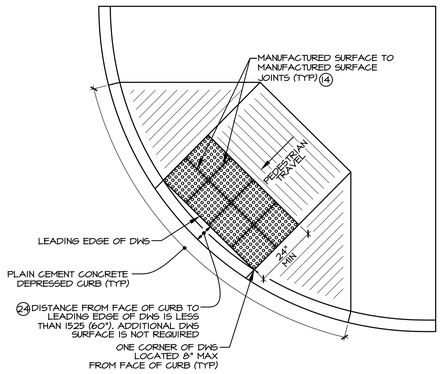
STORMWATER MANAGEMENT PLAN

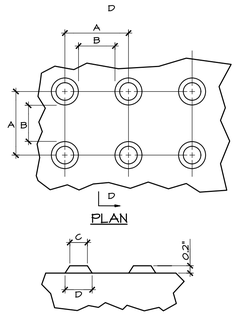
SUBJECT:
SITE DETAILS
MCCASKEY HIGH SCHOOL
MCCASKEY HIGH SCHOOL STADIUM RENOVATIONS
CITY OF LANCASTER - LANCASTER COUNTY - PENNSYLVANIA

CLIENT:
MM ARCHITECTS
214 NORTH DUKE STREET
LANCASTER, PA 17602
(717) 393-3211

MANAGER:	HDC	DATE:	January 30, 2025
DESIGNER:	EWB	PROJECT NO.	AZ202-015
DRAWN BY:	JMT	SCALE:	AS SHOWN

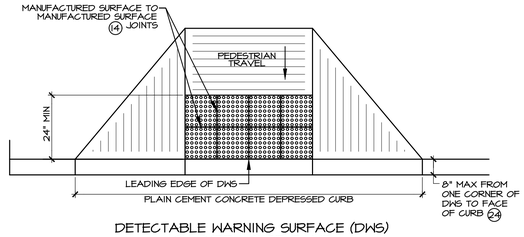
DRAWING NO.
32 OF 53



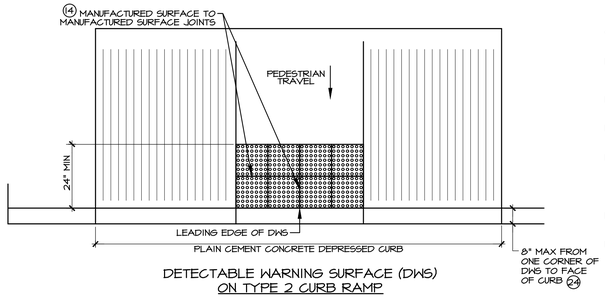


TRUNCATED DOME DIMENSIONS		
DIM	MIN inch	MAX inch
A	1.6"	2.4"
B	0.65"	1.5"
C	(13)	(13)
D	0.9"	1.4"

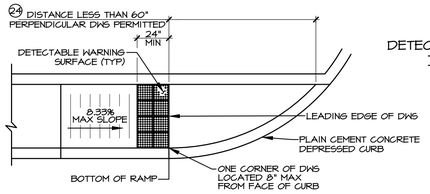
DETECTABLE WARNING SURFACE (DWS)
TRUNCATED DOME DETAILS

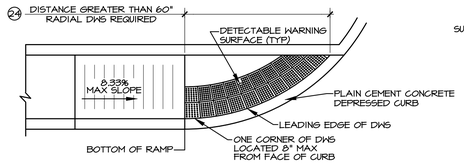


DETECTABLE WARNING SURFACE (DWS)
ON TYPE 1 CURB RAMP

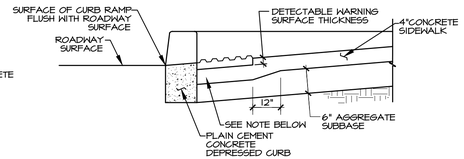


DETECTABLE WARNING SURFACE (DWS)
ON TYPE 2 CURB RAMP





DETECTABLE WARNING SURFACE
(DWS) ON CURVED SURFACES



NOTE: CONSTRUCT NOTCH AS SHOWN TO PROVIDE FULL THICKNESS SIDEWALK UNDER DETECTABLE WARNING SURFACE.

DETECTABLE WARNING SURFACE
EMBEDDING DETAIL

(13) THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

(14) CONSTRUCTION JOINTS ARE SHOWN TO DEPICT A 90 DEGREE GRID. ACTUAL SIZE AND SHAPE MAY VARY.

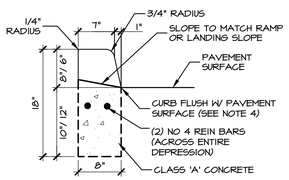
(24) ONE CORNER OF THE DWS MUST BE WITHIN 8" OF THE FACE OF CURB. NO OTHER POINT ON THE LEADING EDGE OF THE DWS MAY BE MORE THAN 60" AWAY FROM THE FACE OF CURB.

NOTES:

1. PROVIDE MATERIALS AND CONSTRUCTION MEETING THE REQUIREMENTS OF PUBLICATION 408, SECTIONS 350, 409, 630, 676 AND 694.
2. PROVIDE EXPANSION JOINT MATERIAL 1/2" THICK WHERE CURB RAMP ADJOINS ANY RIGID PAVEMENT, SIDEWALK OR STRUCTURE WITH THE TOP OF JOINT FILLER FLUSH WITH ADJACENT CONCRETE SURFACE.
3. CONSTRUCT DIAGONAL CURB RAMPS WITH A 4'-0" CLEARSPACE OUTSIDE OF TRAVEL LANES AT THE BOTTOM OF THE RAMP. IF DIAGONAL CURB RAMPS ARE PROVIDED AT MARKED CROSSINGS, THE 4'-0" CLEAR SPACE IS LOCATED WITHIN THE MARKINGS AND OUTSIDE OF THE TRAVEL LANES. SEE SHEET 7 FOR CROSSWALK DETAILS.
4. SEAL JOINTS WITH AN APPROVED SEALING MATERIAL.
5. PROVIDE SLIP RESISTANT TEXTURE ON CURB RAMP BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP. EXTEND TEXTURE THE FULL WIDTH AND LENGTH OF THE CURB RAMP INCLUDING FLARED SIDE RAMPS.
6. MODIFY CONSTRUCTION DETAILS TO ADAPT DIMENSIONS TO EXISTING CURB HEIGHTS WHERE THE CURB IS LESS THAN THE STANDARD 8" HEIGHT.
7. CURB RAMP AND SIDE FLARE LENGTHS ARE VARIABLE AND BASED ON CURB HEIGHT AND THE SIDEWALK SLOPE.
8. IT MAY BE NECESSARY TO LIMIT THE RUN OF A PARALLEL OR PERPENDICULAR CURB RAMP IN ORDER TO AVOID CHASING GRADE INDEFINITELY WHEN TRAVERSING THE HEIGHT OF CURB. RAMP LENGTH NOT TO EXCEED 15'-0", ADJUST RAMP SLOPE AS NEEDED TO PROVIDE ACCESS TO THE MAXIMUM EXTENT POSSIBLE.
9. MEASURE AND PAY FOR DEPRESSED CURB IN ACCORDANCE WITH SECTION 630.4.
10. THE DETAILS DEPICT PEDESTRIAN PUSH BUTTON POLES TO ILLUSTRATE THE PREFERRED PLACEMENT OF PEDESTRIAN PUSH BUTTONS. PEDESTRIAN PUSH BUTTONS ARE TO BE INSTALLED WHERE APPLICABLE.
11. CONSTRUCT BUILT-UP CURB RAMP OF BITUMINOUS MATERIAL AS INDICATED, INCLUDING SURFACE PREPARATION AND TACK COAT, AS REQUIRED.
12. ALIGN DETECTABLE WARNING DOMES ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF THE RAMP AND PERPENDICULAR TO CURB.
13. PROVIDE DETECTABLE WARNING SURFACES (DWS) 24" MINIMUM (IN THE DIRECTION OF PEDESTRIAN TRAVEL) ACROSS FULL WIDTH OF RAMP AT THE GRADE BREAK NEAR STREET EDGE. PROVIDE DWS THAT CONTRAST VISUALLY WITH ADJACENT WALKWAY SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT FOR THE FULL WIDTH OF RAMP.
14. FOR NEW CONSTRUCTION, DO NOT EXCEED 2.00% CROSS SLOPE ON THE CURB RAMP OR ACCESSIBLE ROUTE.
15. FOR NEW CONSTRUCTION AND ALTERATIONS, CONSTRUCT CURB RAMP AND FLARE SLOPES WITH THE FLATTEST SLOPE POSSIBLE. THE SLOPES INDICATED IN THE DETAILS SHOW THE MAX SLOPE ALLOWABLE. SLOPES THAT EXCEED THOSE INDICATED IN THE DETAILS, OR CONTRACT DOCUMENTS AS APPLICABLE, WILL NOT BE ACCEPTED AND WILL BE RECONSTRUCTED.
16. THE IMMEDIATE ADJOINING SURFACE AT THE BOTTOM AND TOP OF CURB RAMPS IS NOT TO EXCEED ROADWAY PROFILE SLOPE WHEN LOCATED ADJACENT TO THE ROADWAY. IN AREAS WHERE THE ADJOINING SURFACE IS NOT ADJACENT TO THE ROADWAY, THE LONGITUDINAL SLOPE IS NOT TO EXCEED 5.00%. FOR ALL LOCATIONS DO NOT EXCEED 2.00% CROSS SLOPE. FOR LOCATIONS THAT REQUIRE A TURNING MANEUVER, THE MAXIMUM SLOPE IS 2.00% IN ALL DIRECTIONS. THE CHANGE IN GRADE AT THE BOTTOM OF THE CURB RAMP AND ADJOINING ROAD SURFACE IS NOT TO EXCEED AN ALGEBRAIC DIFFERENCE OF 11.00%.
17. THE CONSTRUCTION STANDARDS DEPICTED ARE MOST APPROPRIATE FOR NEW CONSTRUCTION. ALL CONSTRUCTION MUST MEET THE STANDARDS CONTAINED HEREIN UNLESS OTHERWISE NOTED OR DIRECTED.
18. ALL SLOPES ARE MEASURED WITH RESPECT TO A LEVEL PLANE. THEREFORE, THE LENGTH OF RAMP IS NOT SOLELY DEPENDANT ON THE HEIGHT OF CURB. (FOR EXAMPLE, A 6" CURB DOES NOT NECESSARILY MEAN A RAMP LENGTH OF 6-0" FOR A 1:12 SLOPE.
19. SIDEWALK WIDTH MAY BE REDUCED TO 4'-0", WHEN PASSING AREAS 5'-0" X 5'-0" ARE PROVIDED EVERY 200'.
20. THE TRAVEL LANE IS DEFINED BY THE OUTSIDE EDGE OF THE WHITE PAVEMENT MARKING LINE. IF A WHITE PAVEMENT MARKING LINE DOES NOT EXIST, THE TRAVEL LANE IS DEFINED BY THE CONTRACT DOCUMENTS.
21. DEPRESSED CURB FOR CURB RAMPS MUST BE FLUSH TO ADJACENT ROADWAY. EDGE OF ROAD ELEVATIONS AT THE FLOW LINE SHALL BE GRADED TO ENSURE POSITIVE DRAINAGE AND PREVENT PONDING.

A 33 CURB RAMPS AND SIDEWALKS - NEW CONSTRUCTION OR ALTERATION DETAILS

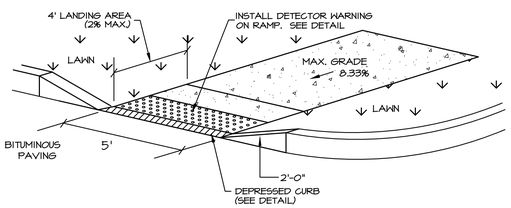
NOT TO SCALE



DEPRESSED CURB FOR CURB RAMPS

NOTES:

1. PROVIDE MATERIALS AND CONSTRUCTION MEETING THE REQUIREMENTS OF PUBLICATION 408, SECTIONS 350, 409, 630, 676 AND 694.
2. PROVIDE EXPANSION JOINT MATERIAL ½" THICK WHERE CURB RAMP ADJOINS ANY RIGID PAVEMENT, SIDEWALK OR STRUCTURE WITH THE TOP OF JOINT FILLER FLUSH WITH ADJACENT CONCRETE SURFACE.
3. SEAL JOINTS WITH AN APPROVED SEALING MATERIAL.
4. CONSTRUCT DEPRESSED CURB FOR CURB RAMPS FLUSH TO ADJACENT ROADWAY. GRADE EDGE OF ROAD ELEVATIONS AT THE FLOW LINE TO ENSURE POSITIVE DRAINAGE AND PREVENT PONDING. FOR LEVEL LANDINGS BEHIND DEPRESSED CURB, ADJUST SLOPES TO PROVIDE POSITIVE DRAINAGE.
5. CONSTRUCT TOP OF PLAIN CEMENT CONCRETE DEPRESSED CURB TO BE FLUSH WITH ADJACENT SURFACES (RAMPS, SIDEWALKS, FLARES).



B 33 ACCESSIBLE RAMP DETAIL

NO SCALE

PAV-516

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1. COL/LCCD COMMENTS	3/28/25	EWB
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ELIZABETH WERNER BALDWIN
ENGINEER
PE080726

PENNSYLVANIA
REGISTERED LANDSCAPE ARCHITECT

STORMWATER MANAGEMENT PLAN

SUBJECT:

SITE DETAILS

MCCASKEY HIGH SCHOOL

MCCASKEY HIGH SCHOOL STADIUM RENOVATIONS

CITY OF LANCASTER - LANCASTER COUNTY - PENNSYLVANIA

CLIENT:

MM ARCHITECTS

214 NORTH DUKE STREET

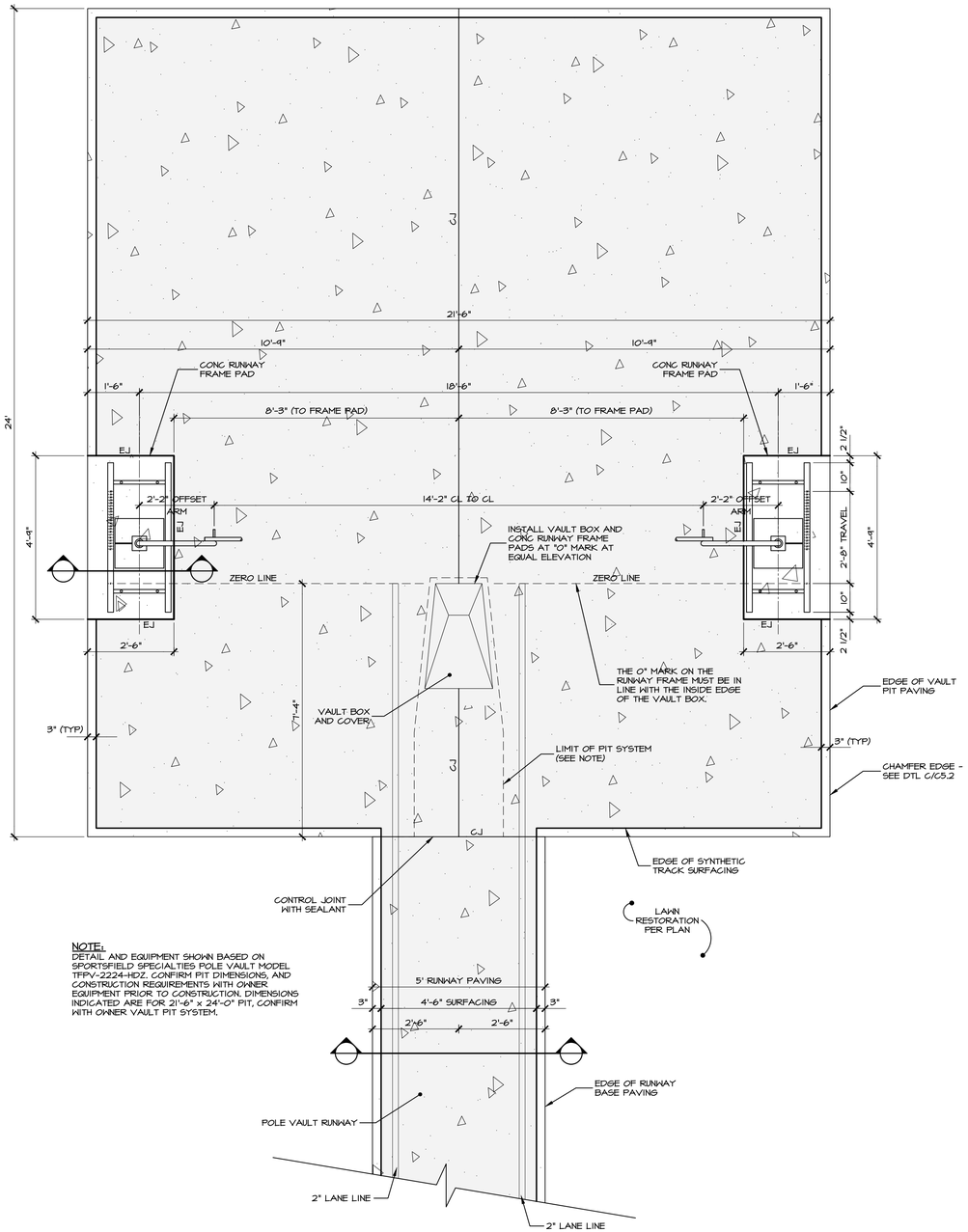
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(717) 393-3211

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DESIGNER:	EWB	PROJECT NO.	AZ202-015
DRAWN BY:	JMT	SCALE:	AS SHOWN

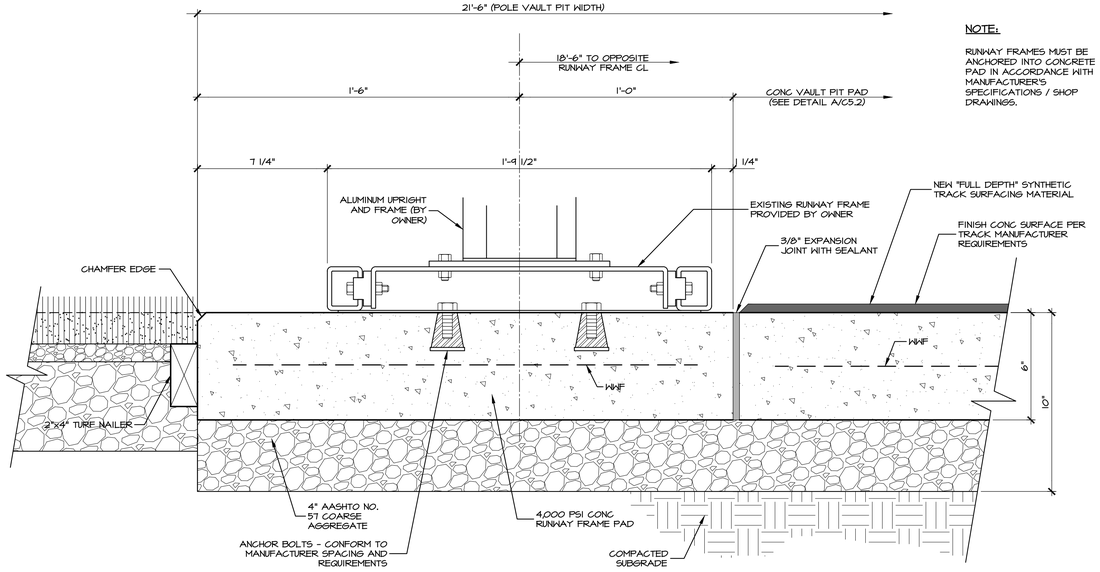
DRAWING NO.

33 OF 53



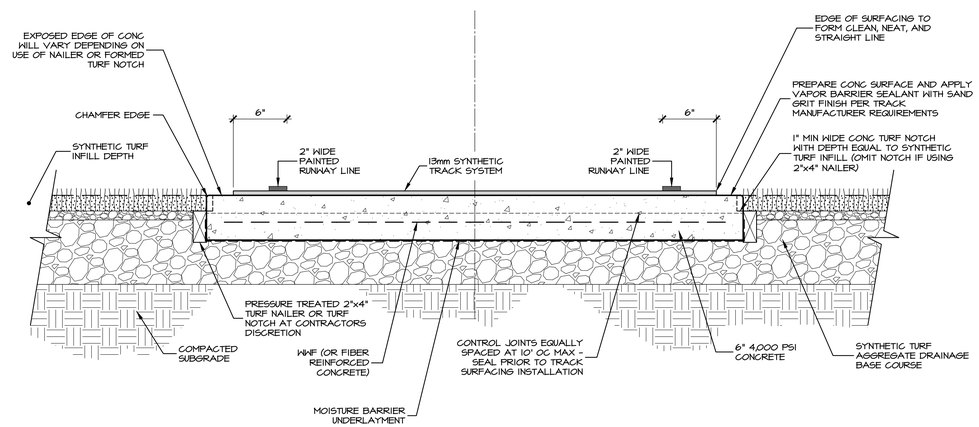
NOTE:
DETAIL AND EQUIPMENT SHOWN BASED ON SPORTSFIELD SPECIALTIES POLE VAULT MODEL TFPV-2224-HDZ. CONFIRM PIT DIMENSIONS, AND CONSTRUCTION REQUIREMENTS WITH OWNER EQUIPMENT PRIOR TO CONSTRUCTION. DIMENSIONS INDICATED ARE FOR 21'-6" x 24'-0" PIT, CONFIRM WITH OWNER VAULT PIT SYSTEM.

A/34 POLE VAULT PIT / PAD AREA LAYOUT
SCALE: 1/2" = 1'-0"



NOTE:
RUNWAY FRAMES MUST BE ANCHORED INTO CONCRETE PAD IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS / SHOP DRAWINGS.

B/34 POLE VAULT FRAME AND PIT AREA SECTION "A-A"
SCALE: 3" = 1'-0"



C/34 POLE VAULT RUNWAY CROSS-SECTION
SCALE: 1 1/2" = 1'-0"

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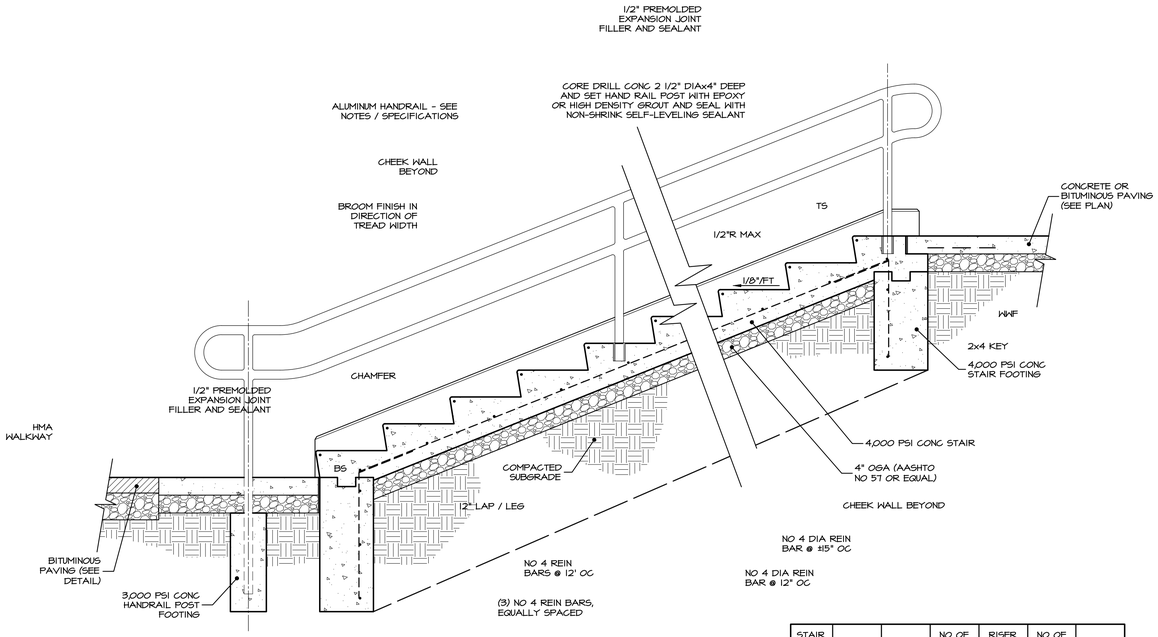
STORMWATER MANAGEMENT PLAN

SUBJECT:
SITE DETAILS
MCCASKEY HIGH SCHOOL
MCCASKEY HIGH SCHOOL STADIUM RENOVATIONS
CITY OF LANCASTER - LANCASTER COUNTY - PENNSYLVANIA

CLIENT:
MM ARCHITECTS
214 NORTH DUKE STREET
LANCASTER, PA 17602
(717) 393-3211

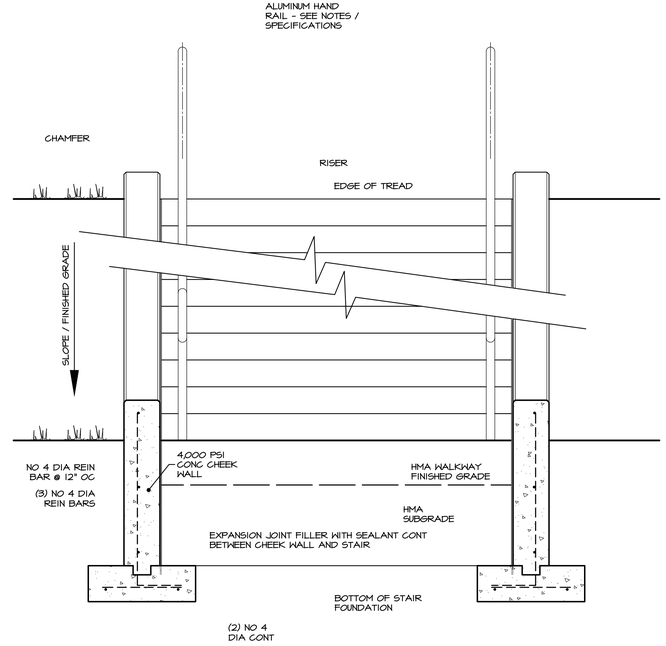
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DRAWN BY:	JMT	SCALE:	AS SHOWN

DRAWING NO.
34 OF 53



STAIR RUN	T5 ELEV	B5 ELEV	NO OF RISERS	RISER HEIGHT	NO OF TREADS	WIDTH
A	307.60	303.60	8	6"	7	8'

A.1 STAIR SECTION
SCALE: 3/4" = 1'-0"

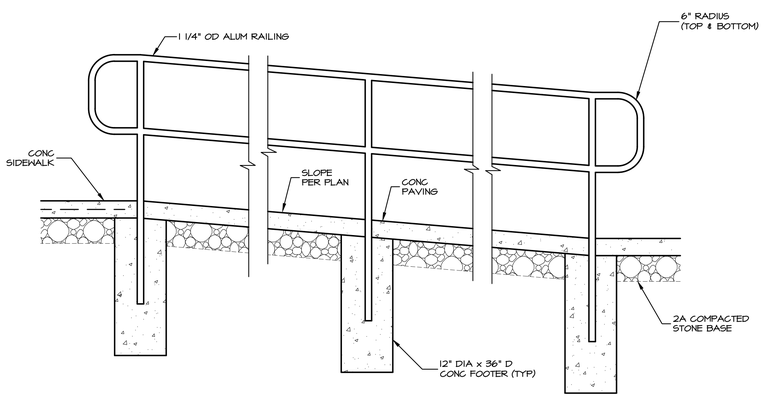


A.2 CHEEK WALL SECTION
SCALE: 3/4" = 1'-0"

HANDRAIL NOTES / SPECIFICATIONS

1. DESIGN, FABRICATE, AND INSTALL STAIR RAILINGS TO WITHSTAND A UNIFORMLY DISTRIBUTED LOAD OF 50 LBS/L.F. APPLIED IN ANY DIRECTION AND A CONCENTRATED LOAD OF 200 LBS APPLIED AT ANY POINT IN ANY DIRECTION. LOADS SHALL BE APPLIED SEPARATELY.
2. SHOP DRAWINGS: PROVIDE SUBMITTAL INDICATING SIZES, SHAPES, CONFIGURATION, SECTIONS, FABRICATION AND INSTALLATION DETAILS. CERTIFY RAILINGS MEET CODE REQUIREMENTS, ARE ADA COMPLIANT, AND MEET LOADING REQUIREMENTS (SEE NOTE 1).
3. SHOP ASSEMBLED MECHANICAL JOINTS SHALL FIT WITHIN 1/16". EACH ELEMENT OF AN ASSEMBLY SHALL BE CORRECT WITHIN 1/8" AND TOTAL SIZE OF A FREE-STANDING ASSEMBLY SHALL BE CORRECT TO WITHIN 1/2". INSTALL RAILINGS PLUMB AND ALIGNED WITHIN 1/4" IN 12-FEET AND PARALLEL WITH ADJACENT SURFACES TO WITHIN 1/4".
4. FIELD MEASUREMENTS: TAKE FIELD MEASUREMENTS PRIOR TO PREPARATION OF SHOP DRAWINGS AND FABRICATION.
5. MATERIALS:
   a. RAILS AND POSTS: 1 1/2-INCH MINIMUM TO 2-INCH MAXIMUM DIAMETER, EXTRUDED ALUMINUM TUBING, 6063 ALLOY, T5 OR T6, CONFORMING TO ASTM B221.
   b. FITTINGS: CAST OR MACHINED ALUMINUM.
   c. SPLICE CONNECTORS: CAST OR MACHINED ALUMINUM.
   d. EXPOSED FASTENERS: FLUSH COUNTERSUNK SCREWS OR BOLTS; CONSISTENT WITH DESIGN OF RAILING.
   e. FINISH: MILL FINISH.

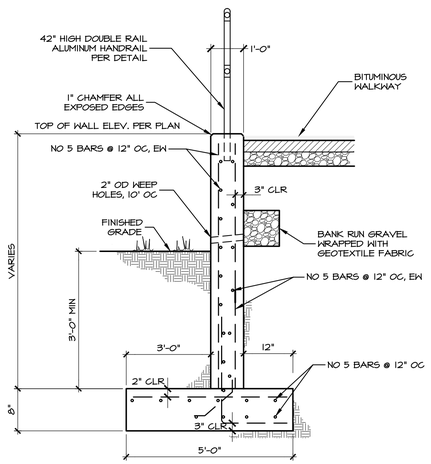
A 35 EXTERIOR CONC STAIR
SCALE: 3/4" = 1'-0"



B 35 ACCESSIBLE RAMP RAIL DETAIL
NOT TO SCALE

CONSTRUCTION NOTES:

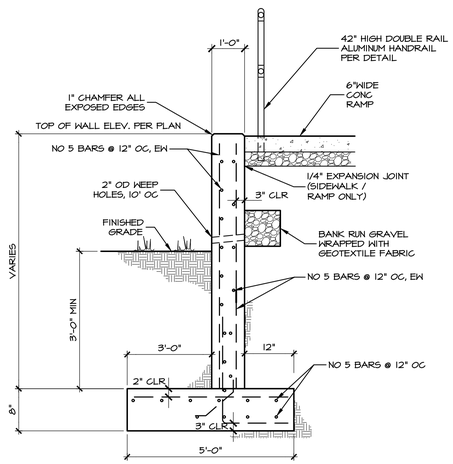
1. ALL CONCRETE SHALL BE f'c = 4000 p.s.i. @ 28 DAYS.
2. ALL STEEL REINFORCING BARS SHALL BE GRADE 60 (fy = 60,000p.s.i.) AND SHALL CONFORM TO A.S.T.M.. A-615.
3. MINIMUM LAP SPLICE FOR REINFORCING BARS SHALL BE 24 INCHES- UNLESS OTHERWISE NOTED.
4. CONTRACTOR MAY USE #2 BARS FOR VERTICAL TIES TO FACILITATE POURING OF VERTICAL WALLS, HOLD STEEL SPACING & CLEARANCE.
5. THE CLASS SURFACE FINISH FOR ALL CONCRETE SURFACES SHALL BE A GENERAL SURFACE FINISH.



C 35 TYPICAL WALL AT WALL AND ENTRY DRIVE
NO SCALE

CONSTRUCTION NOTES:

1. ALL CONCRETE SHALL BE f'c = 4000 p.s.i. @ 28 DAYS.
2. ALL STEEL REINFORCING BARS SHALL BE GRADE 60 (fy = 60,000p.s.i.) AND SHALL CONFORM TO A.S.T.M.. A-615.
3. MINIMUM LAP SPLICE FOR REINFORCING BARS SHALL BE 24 INCHES- UNLESS OTHERWISE NOTED.
4. CONTRACTOR MAY USE #2 BARS FOR VERTICAL TIES TO FACILITATE POURING OF VERTICAL WALLS, HOLD STEEL SPACING & CLEARANCE.
5. THE CLASS SURFACE FINISH FOR ALL CONCRETE SURFACES SHALL BE A GENERAL SURFACE FINISH.



D 35 TYPICAL WALL AT ACCESSIBLE RAMP
NO SCALE

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ELIZABETH WERNER BALDWIN ENGINEER 069070 PENNSYLVANIA

PENNSYLVANIA HIGH SCHOOL REGISTERED LANDSCAPE ARCHITECT REGISTRATION NUMBER 001-C

STORMWATER MANAGEMENT PLAN

SUBJECT:

SITE DETAILS

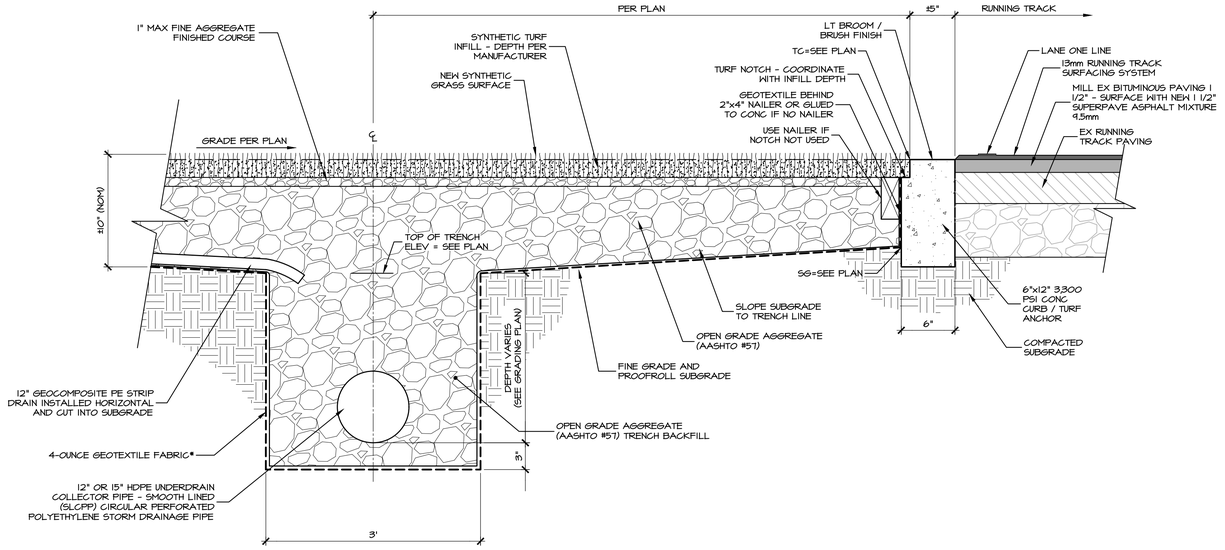
MCCASKEY HIGH SCHOOL
MCCASKEY HIGH SCHOOL STADIUM RENOVATIONS
CITY OF LANCASTER - LANCASTER COUNTY - PENNSYLVANIA

CLIENT:

MM ARCHITECTS
214 NORTH DUKE STREET
LANCASTER, PA 17602
(717) 393-3211

MANAGER:	HDC	DATE:	January 30, 2025
DESIGNER:	EWB	PROJECT NO.	AZ202-015
DRAWN BY:	JMT	SCALE:	AS SHOWN

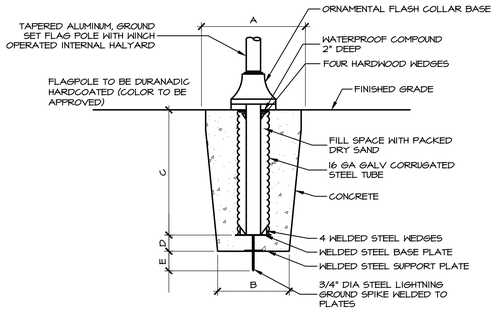
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* SEE GEOTEXTILE FABRIC SPECIFICATIONS

A/36 TYPICAL SYNTHETIC TURF PERIMETER UNDERDRAIN COLLECTOR AND CURB CROSS-SECTION - STADIUM FIELD

SCALE: 1 1/2" = 1'-0"



NOTES:

A1 - CONCRETE BASE DIAMETER AT LEAST FIVE TIMES THE OUTSIDE DIAMETER OF BUTT AND NEVER LESS THAN 30" DIAMETER.

B1 - CONCRETE BASE DIAMETER AT LEAST FOUR TIMES THE OUTSIDE DIAMETER OF BUTT AND NEVER LESS THAN THREE FEET.

C1 - POLE SHOULD BE SET IN FOUNDATION TEN PERCENT (10%) OF POLE HEIGHT ABOVE GRADE AND NEVER LESS THAN THREE FEET.

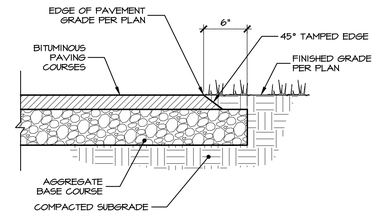
D1 - CONCRETE BASE FOOTING THICKNESS SHOULD BE 0.15 INCHES FOR EACH FOOT OF POLE HEIGHT ABOVE GRADE AND NEVER LESS THAN 4" THICK.

E1 - LIGHTNING ROD GROUND SPIKE SHOULD EXTEND INTO SOLID GROUND FOR THE SAME DISTANCE AS FOOTING THICKNESS.

NOTE: THE ABOVE DIMENSIONS ARE MINIMUM FOR DRY SOIL ONLY. WHERE HEAVY FROST CONDITIONS EXIST, INVERT DIMENSIONS A AND B. DIMENSIONS ARE BASED ON BAARTOL COMPANY INC. RECOMMENDATIONS. APPROVED ALTERNATE MANUFACTURERS MAY REQUIRE ALTERNATE FOUNDATION DESIGN/DIMENSIONS.

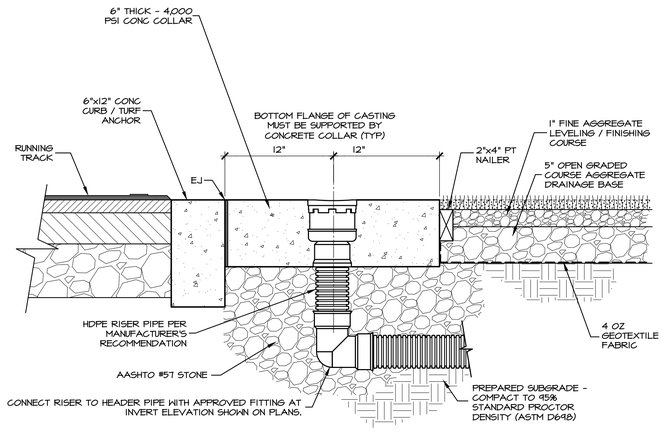
BUTT DIAMETER OF POLE	FOUNDATION TUBE DIAMETER	BASE PLATE SIZE	SUPPORT PLATE SIZE
UP TO 5-1/2" O.D.	8" I.D. X #16 GA.	14" X 14" X 3/16" OR 1/4"	6" X 6" X 3/16" OR 1/4"

C/36 FLAG POLE FOUNDATION DETAIL FOR 30'H POLE



E/31 PAVEMENT EDGE TREATMENT (NO CURB)

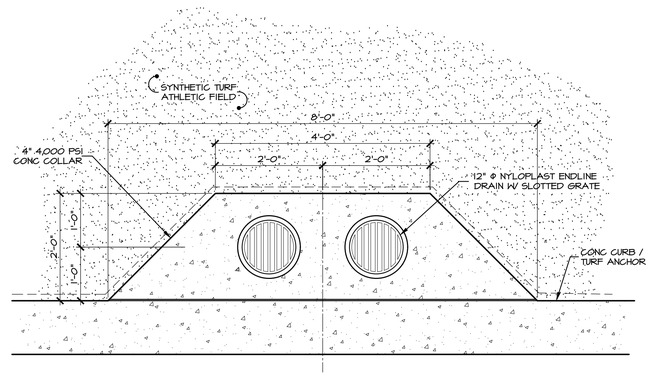
NOT TO SCALE



** THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS II MATERIAL AS DEFINED IN ASTM D2321, OR AS DETERMINED BY LOCAL STANDARDS & SITE ENGINEER. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

B.1/36 UNDERDRAIN CLEANOUT TYP SECTION

SCALE: 1 1/2" = 1'-0"



B.2/36 DOUBLE CLEANOUT / COLLAR PLAN VIEW

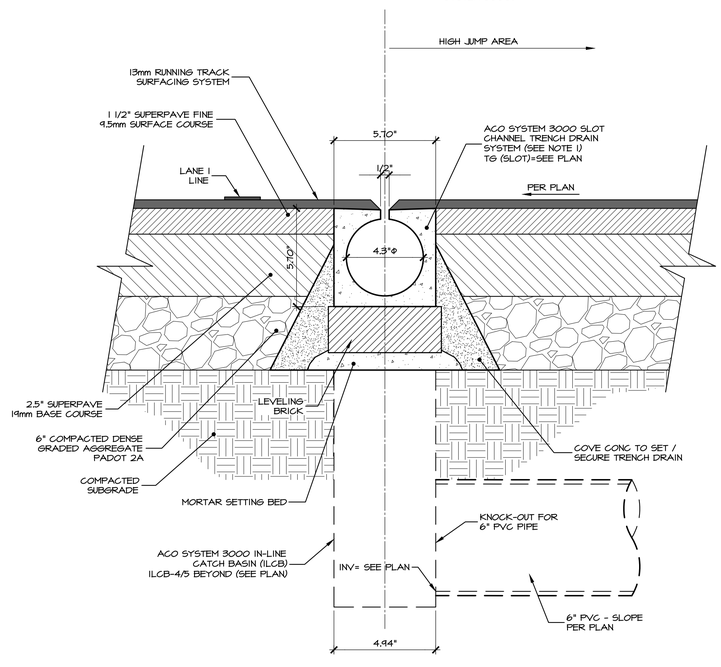
SCALE: 3/4" = 1'-0"

B/36 FIELD UNDERDRAIN CLEANOUT DETAIL IN SYNTHETIC TURF AREA

SCALE AS NOTED

NOTES:

1. TRENCH DRAIN DIMENSIONS ARE NOMINAL. VERIFY DIMENSIONS OF SELECTED TRENCH DRAIN SYSTEM. TRENCH DRAIN SHALL BE EQUAL TO ACO SPORT SYSTEM 3000.



NOTE

SEE ILCB DETAIL A ON SHEET 19 OF 32

D/36 SLOTTED TRENCH DRAIN AND IN-LINE CATCH BASIN

SCALE: 3" = 1'-0"

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COMMONWEALTH OF PENNSYLVANIA HOPE D. CADDICK REGISTERED LANDSCAPE ARCHITECT

CONSTRUCTION DOCUMENTS

SUBJECT:

SITE DETAILS

MCCASKEY HIGH SCHOOL
MCCASKEY HIGH SCHOOL STADIUM RENOVATIONS
CITY OF LANCASTER - LANCASTER COUNTY - PENNSYLVANIA

CLIENT:

MM ARCHITECTS
214 NORTH DUKE STREET
LANCASTER, PA 17602
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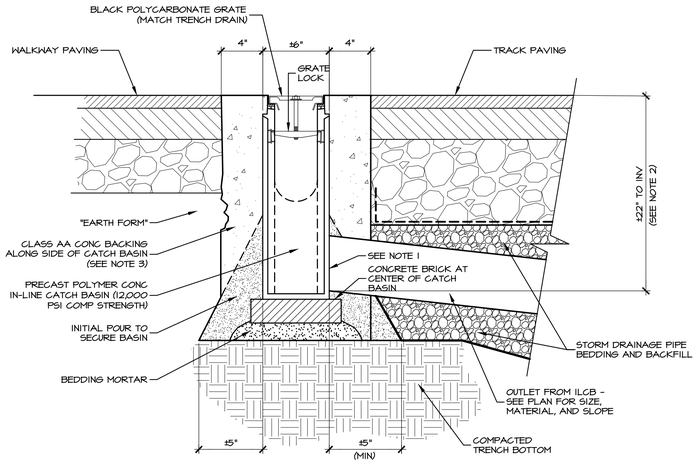
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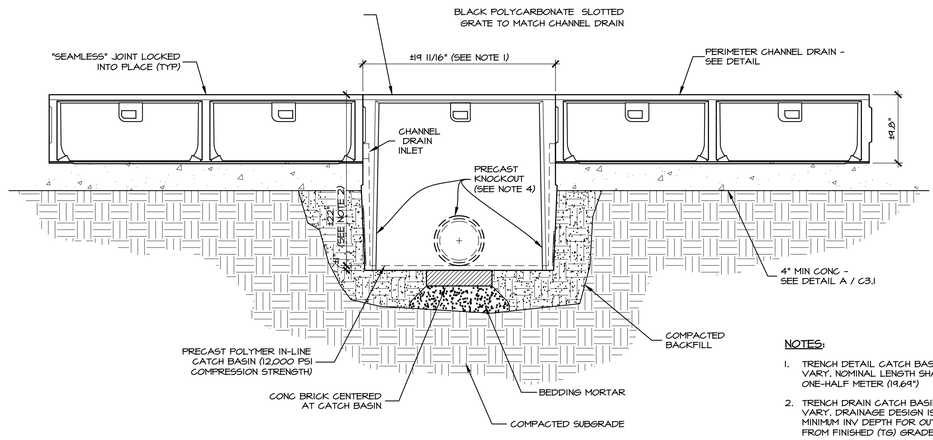
DRAWING: C:\Users\jmtoedter\DC\ACCDocs\ELA Group\AZ202-015 McCaskey Stadium Renovations\Project Files\CAD Data\Land Development\LD-PRELIM\DETAILS.dwg - PLOTTED: Apr 02, 2025 2:22 pm

NOTES:

1. IN-LINE CATCH BASIN DIMENSIONS ARE NOMINAL. VERIFY DIMENSIONS OF SELECTED CATCH BASIN AND OUTLET CONFIGURATION PRIOR TO CONSTRUCTION.
2. TOP OF GRATE TO INVERT OF CATCH BASIN / OUTLET IS APPROXIMATELY 22", OVERALL DEPTH IS APPROXIMATELY 24", VERIFY OUTLET ELEV AND CONFIGURATION TO MEET DRAINAGE SYSTEM REQUIREMENTS PRIOR TO CONSTRUCTION.
3. COORDINATE DEPTH OF "NOTCH" FOR TURF ANCHOR WITH SYNTHETIC TURF INSTALLER. DEPTH OF NOTCH TO BE EQUAL TO DEPTH OF TURF INFILL MATERIAL. A 2"X4" TREATED LUMBER NAILER MAY USED IN LIEU OF A NOTCH. DEPTH OF NAILER SHALL BE EQUAL TO DEPTH OF TURF INFILL MATERIAL.
4. PRIME TOP OF CURB/CONC. PRIOR TO PLACEMENT OF TRACK MATERIAL, BY OTHERS UNDER AEPA CONTRACT.



A.1 TYPICAL IN-LINE CATCH BASIN SECTION
NOT TO SCALE



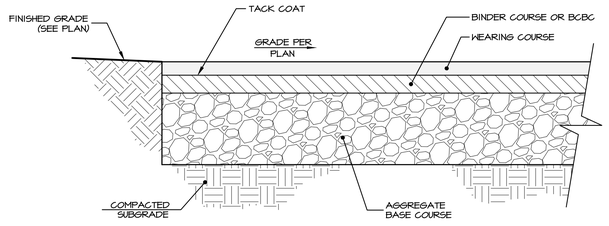
NOTES:

1. TRENCH DETAIL CATCH BASIN LENGTH MAY VARY. NOMINAL LENGTH SHALL BE ONE-HALF METER (19.69")
2. TRENCH DRAIN CATCH BASIN DEPTH MAY VARY. DRAINAGE DESIGN IS BASED ON A MINIMUM INV DEPTH FOR OUTLET OF 1.84' FROM FINISHED (TG) GRADE.
3. ALL CATCH BASINS (ILCB) SHALL INCLUDE A TRASH BUCKET AND REMOVABLE GRATING.
4. OUTLET CONFIGURATION PER PLAN. PROVIDE ACCESSORY OUTLET PIPE CONNECTORS FOR CONNECTION OF ILCB TO FIELD UNDERDRAIN OR SITE STORM SEWER SYSTEM.
5. IN-LINE CATCH BASIN DETAIL APPLIES TO SLOTTED TRENCH DRAIN AS WELL.

A.2 TYPICAL IN-LINE CATCH BASIN AND TRENCH / CHANNEL DRAIN SECTION / ELEVATION
NOT TO SCALE

A 37 TRENCH DRAIN ALONG GRANDSTANDS - IN-LINE CATCH BASIN ELEVATION AND SECTION

SCALE: 1 1/2" = 1'-0"

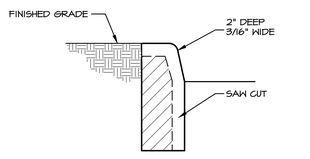


1. BITUMINOUS PAVEMENT MATERIALS ARE LISTED PER PENNSYLVANIA DEPARTMENT OF TRANSPORTATION, PUBLICATION 408 STANDARDS, LATEST REVISIONS.
2. RECLAIMED AGGREGATE MATERIAL SHALL MEET THE REQUIREMENTS OF PA DOT PUBLICATION 408, SECTION 703.1, TABLE A, OR 703.2, TABLE B.

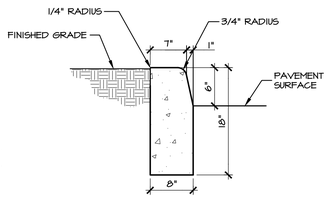
HOT MIX ASPHALT PAVING SCHEDULE

SYM	WEARING COURSE		BINDER COURSE		AGGREGATE BASE COURSE		LOCATION
	TYPE	COMPACTED THICKNESS	TYPE	COMPACTED THICKNESS	TYPE	COMPACTED THICKNESS	
A	SUPERPAVE ASPHALT MIXTURE DESIGN, 9.5mm, PG 64-22, HMA	2.5"	--	-	2A MODIFIED	6"	WALKWAYS
B	SUPERPAVE ASPHALT MIXTURE DESIGN, 9.5mm, PG 64-22, HMA	1.5"	SUPERPAVE ASPHALT MIXTURE DESIGN, 19mm, PG 64-22, HMA	2.5"	2A MODIFIED	6"	TRACK PAVING, PARKING AREA, DRIVES

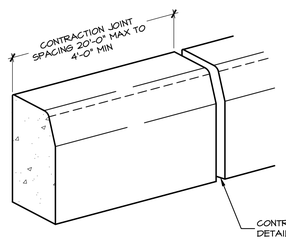
B 37 HOT MIX ASPHALT PAVEMENT SECTION / SCHEDULE
NOT TO SCALE



DETAIL 'A' CONTRACTION JOINT



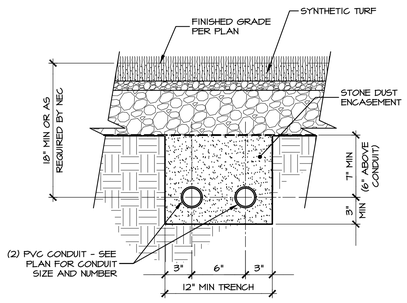
TYPICAL CROSS-SECTION



NOTES:

1. PROVIDE MATERIALS AND CONSTRUCTION MEETING THE REQUIREMENTS OF PADOT PUBLICATION 408, SECTION 630 FOR PLAIN CEMENT CONC CURB.
2. SPACE CONTRACTION JOINTS IN UNIFORM LENGTHS OR SECTIONS.
3. PLACE 3/4" THICK PRE-MOLDED EXPANSION JOINT MATERIAL AT STRUCTURES AND AT THE END OF THE WORK DAY. CUT MATERIAL TO CONFORM TO CROSS-SECTIONAL AREA OF CURB.
4. PROVIDE 6" MIN REVEAL AS INDICATED ON PLAN.
5. SEAL PAVEMENT JOINT AT CURB LINE WITH PG 64-22.

C 37 PADOT TYPE CONCRETE VERTICAL CURB
NOT TO SCALE



NOTES:

1. CONDUIT MAY BE STACKED VERTICALLY IN TRENCH WITH 6" MIN SEPARATION BETWEEN CONDUIT.
2. REFER TO PLAN FOR LOCATIONS OF MULTIPLE CONDUIT INSTALLATION AND SINGLE CONDUIT TRENCH. MIN TRENCH WIDTH FOR SINGLE CONDUIT IS PIPE DIA x 4.

D 37 ATHLETIC FIELD CONDUIT TRENCH
SCALE: 1 1/2" = 1'-0"

REVISIONS PER:		DATE:	BY:
1.	COL/LCCD COMMENTS	3/28/25	EWB
2.	-	-	-
3.	-	-	-
4.	-	-	-
5.	-	-	-

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ELIZABETH WERNER BALDWIN ENGINEER PE080728

PENNSYLVANIA REGISTERED LANDSCAPE ARCHITECT

CONSTRUCTION DOCUMENTS

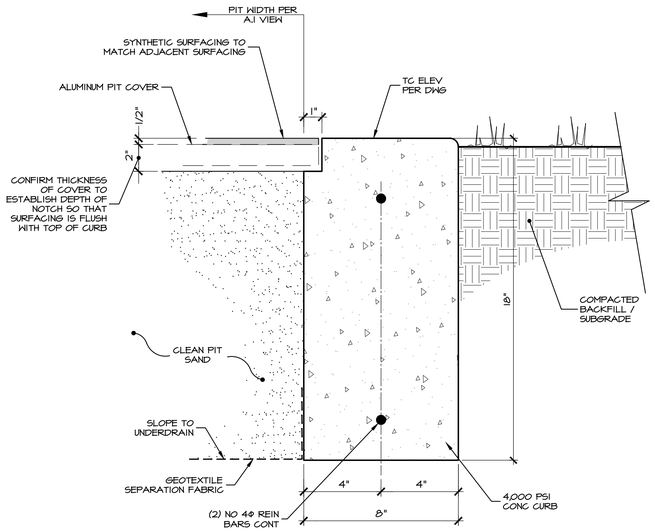
SUBJECT:
SITE DETAILS
MCCASKEY HIGH SCHOOL
MCCASKEY HIGH SCHOOL STADIUM RENOVATIONS
CITY OF LANCASTER - LANCASTER COUNTY - PENNSYLVANIA

CLIENT:
MM ARCHITECTS
214 NORTH DUKE STREET
LANCASTER, PA 17602
(717) 393-3211

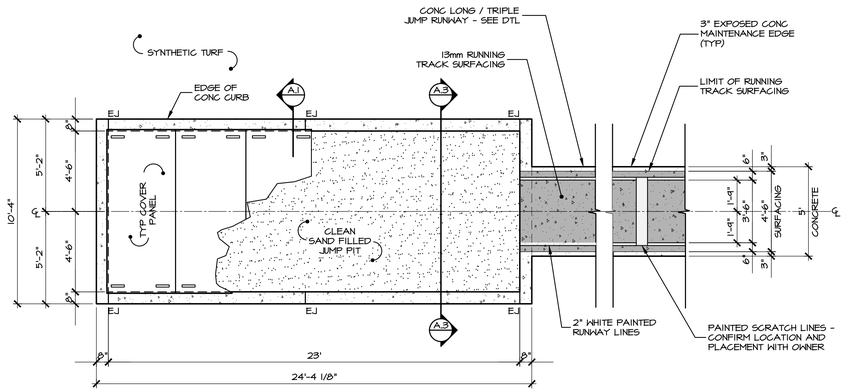
MANAGER:	HDC	DATE:	February 6, 2025
DESIGNER:	EWB	PROJECT NO.	AZ202-015
DRAWN BY:	JMT	SCALE:	AS SHOWN

DRAWING NO.
37 OF 33

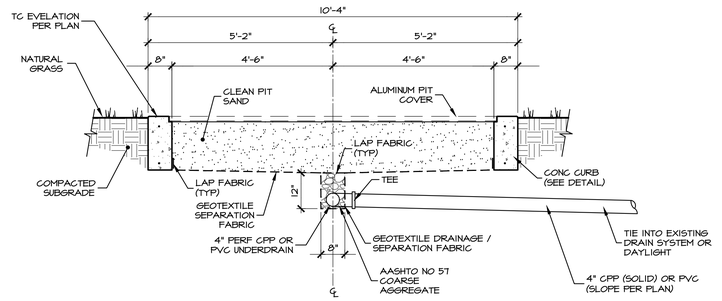
DRAWING: C:\Users\jmtoedter\DC\ACCDocs\ELA Group\AZ202-015 McCaskey Stadium Renovations\Project Files\CAD Data\Land Development\LD-FREL1MYDETAILS.dwg - PLOTTED: Apr 02, 2025 2:22 pm



A.1 JUMP PIT CURB SECTION
SCALE: 3" = 1'-0"

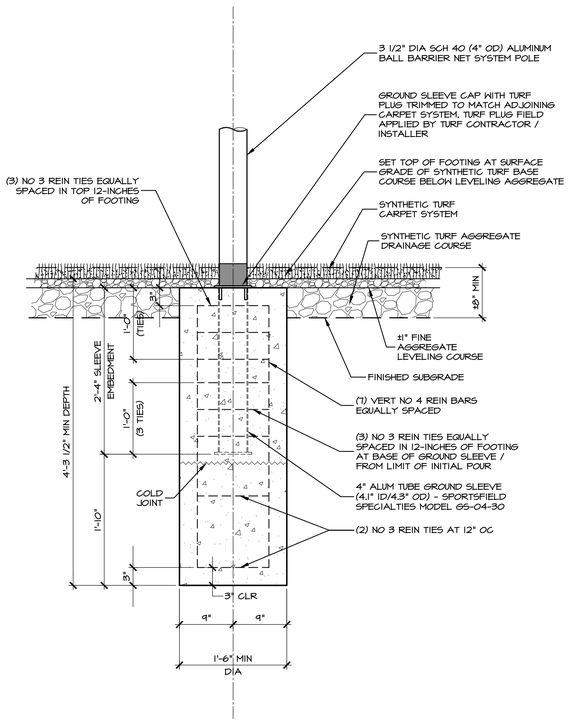


A.2 JUMP PIT PLAN
SCALE: 1/4" = 1'-0"

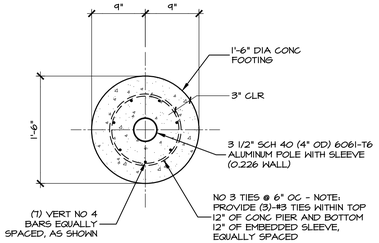


A.3 JUMP PIT SECTION
SCALE: 1/2" = 1'-0"

A 38 CONC JUMP PIT WITH ALUMINUM COVER
SCALE: AS NOTED



SECTION VIEW
SCALE: 1" = 1'-0"



PLAN VIEW
SCALE: 1" = 1'-0"

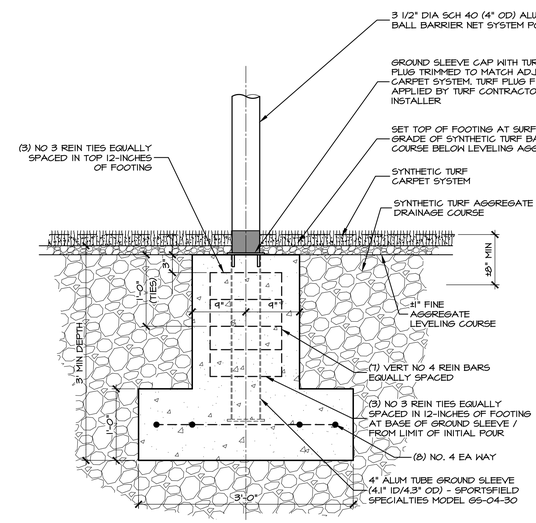
NOTES:

1. DESIGN PER ASCE 7-10 - 105 MPH (EXP B)
2. CONC SHALL MEET THE FOLLOWING
   a. 28 DAY STRENGTH = 4,000 PSI
   b. W/C RATIO = 0.46
   c. AIR ENTRAINMENT = 5.5 +/- 1%
3. REINFORCING BAR SHALL MEET ASTM A615, GRADE 60
4. UNIT WEIGHT OF SOIL = 115 PCF
5. SOIL INTERNAL ANGLE OF FRICTION USED FOR DESIGN = 28 DEGREES
6. MAX POLE HEIGHT / SPACING = 20'/20'
7. WATER TABLE ASSUMED TO BE 3'-6" BELOW GRADE FOR FOOTING DESIGN
8. PROVIDE BITUMINOUS OR ASPHALT COATING ON ALL BARE SURFACES OF EMBEDDED ALUMINUM
9. COMPACT SOIL SURROUNDING FOOTING TO 95% MODIFIED PROCTOR
10. CONTRACTOR SHALL NOTIFY ENGINEER WHERE SOIL CONDITIONS NOT MEETING THE ABOVE OR GROUND WATER IS ENCOUNTERED DURING EXCAVATION

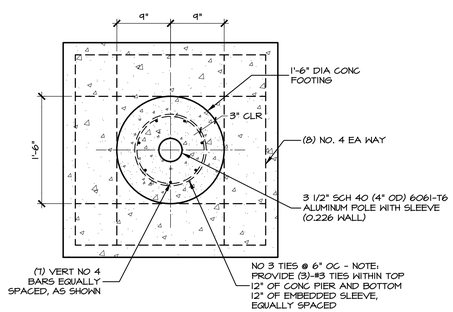
SYSTEM NOTES:

1. FOOTING FOR USE WITH #36 NYLON 1 3/4" SQUARE MESH NETTING
2. FOUNDATION TO BE UTILIZED WITH SPORTSFIELD SPECIALTIES "STORMGUARD" PRE-ENGINEERED BREAKAWAY SYSTEM ONLY
3. DESIGN WIND SPEED AT PIN FAILURE = 70 MPH
4. DESIGN WIND SPEED ON BARE POLE = 105 MPH

B 38 BALL BARRIER GROUND SLEEVE FOUNDATION
SCALE: 1" = 1'-0"



SECTION VIEW
SCALE: 1" = 1'-0"



PLAN VIEW
SCALE: 1" = 1'-0"

C 38 BALL BARRIER GROUND SLEEVE FOUNDATION - WITHIN BMP
SCALE: 1" = 1'-0"

REVISIONS PER:		DATE:	BY:
1.	COL/LCCD COMMENTS	3/28/25	EWB
2.	-	-	-
3.	-	-	-
4.	-	-	-
5.	-	-	-

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ENGINEER
PE080726
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REGISTERED LANDSCAPE ARCHITECT

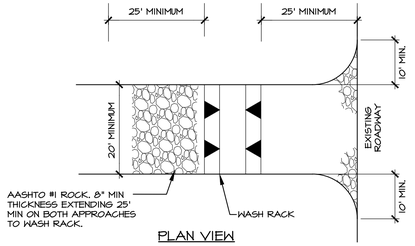
STORMWATER MANAGEMENT PLAN

SUBJECT:
SITE DETAILS
MCCASKEY HIGH SCHOOL
MCCASKEY HIGH SCHOOL STADIUM RENOVATIONS
CITY OF LANCASTER - LANCASTER COUNTY - PENNSYLVANIA

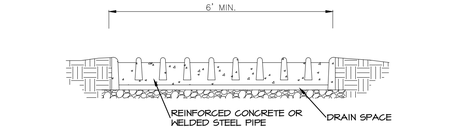
CLIENT:
MM ARCHITECTS
214 NORTH DUKE STREET
LANCASTER, PA 17602
(717) 393-3211

MANAGER:	HDC	DATE:	January 30, 2025
DESIGNER:	EWB	PROJECT NO.	AZ202-015
DRAWN BY:	JMT	SCALE:	AS SHOWN

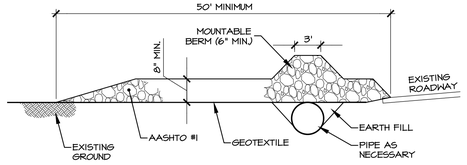
DRAWING NO.
38 OF 53



PLAN VIEW



WASH RACK SECTION



PROFILE

NOTES:

1. SEDIMENT DEPOSITED ON PUBLIC ROADWAYS SHOULD BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.
2. REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.
3. RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.
4. MAINTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.
5. WASH RACK SHALL BE 20 FEET (MIN.) WIDE OR TOTAL WIDTH OF ACCESS.
6. WASH RACK SHALL BE DESIGNED AND CONSTRUCTED TO ACCOMMODATE ANTICIPATED CONSTRUCTION VEHICULAR TRAFFIC.
7. A WATER SUPPLY SHALL BE MADE AVAILABLE TO WASH THE WHEELS OF ALL VEHICLES EXITING THE SITE.
8. WASH RACK SUBSTITUTE: PUBLIC STREET SWEEPING WITH A VACUUM SWEEPER AND ROLLING OF DIRT AND GRAVEL ROADS AT THE END OF EACH WORK DAY (OR MORE FREQUENTLY AS NEEDED); MANUAL CLEANING OF TIRES PRIOR TO SITE EGRESS IS PERMITTED. TOPOGRAPHY OR THE ABSENCE OF ELECTRICITY AND WATER CAN MAKE WASH RACKS UNFEASIBLE IN SOME LOCATIONS. VACUUM SWEEPERS CAN REMOVE ACCUMULATED SEDIMENT FROM STREETS BEFORE IT IS WASHED INTO SURFACE WATERS. TIRES CAN BE CLEANED OFF MANUALLY WITH A BROOM PRIOR TO EXITING. ROLLING OF DIRT ROADS CAN STABILIZE AREAS AFFECTED BY TRACKED MUD. REQUIRES CONTINUOUS MAINTENANCE.

ROCK CONSTRUCTION ENTRANCE MAINTENANCE PROGRAM

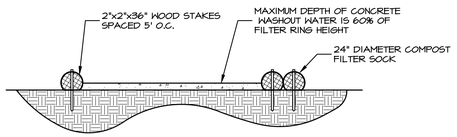
1. ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ONSITE FOR THIS PURPOSE.
2. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.
3. DRAIN SPACE UNDER WASH RACK SHALL BE KEPT OPEN AT ALL TIMES.
4. DAMAGE TO THE WASH RACK SHALL BE REPAIRED PRIOR TO FURTHER USE OF THE WASH RACK.

ROCK CONSTRUCTION ENTRANCE INSPECTION SCHEDULE AND REPORTING

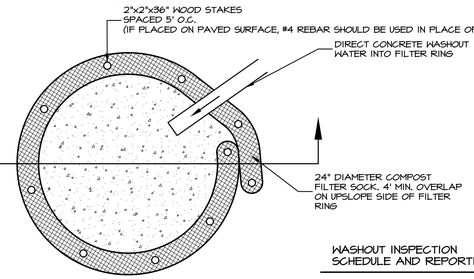
1. INSPECTION OF ROCK CONSTRUCTION ENTRANCES SHALL OCCUR AS FOLLOWS:
   - WEEKLY
   - AFTER EACH RUNOFF EVENT (THIS IS REQUIRED IN ADDITION TO THE REQUIRED WEEKLY INSPECTION)
2. A WRITTEN REPORT DOCUMENTING EACH INSPECTION AND ANY REPAIRS MADE SHALL BE KEPT AND SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:
   (1) A SUMMARY OF SITE CONDITIONS, E&S BMP AND PCSM BMP, IMPLEMENTATION AND MAINTENANCE AND COMPLIANCE ACTIONS; AND
   (2) THE DATE, TIME, NAME AND SIGNATURE OF THE PERSON CONDUCTING THE INSPECTION.

A 39 ROCK CONSTRUCTION ENTRANCE WITH WASH RACK

NOT TO SCALE



SECTION VIEW



PLAN VIEW

NOTES

1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.
2. 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.
3. A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WAHOUT PRIOR TO INSTALLING THE SOCKS.

WASHOUT MAINTENANCE PROGRAM

1. ALL CONCRETE WASHOUT FACILITIES SHOULD BE INSPECTED DAILY. DAMAGED OR LEAKING WASHOUTS SHOULD BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY.
2. ACCUMULATED MATERIALS SHOULD BE REMOVED WHEN THEY REACH 75% CAPACITY.
3. PLASTIC LINERS SHOULD BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.

CONCRETE WASHOUT - FOR ANY PROJECT ON WHICH CONCRETE WILL BE POURED OR OTHERWISE FORMED ON SITE, A SUITABLE WASHOUT FACILITY MUST BE PROVIDED FOR THE CLEANING OF CHUTES, MIXERS, AND HOPPERS OF THE DELIVERY VEHICLES UNLESS SUCH A FACILITY WILL BE USED AT THE SOURCE OF THE CONCRETE. UNDER NO CIRCUMSTANCES MAY WASH WATER FROM THESE VEHICLES BE ALLOWED TO ENTER ANY SURFACE WATERS. MAKE SURE THAT PROPER SIGNAGE IS PROVIDED TO RIVERS SO THAT THEY ARE AWARE OF THE PRESENCE OF WASHOUT FACILITIES.

WASHOUT FACILITIES SHOULD NOT BE PLACED WITHIN 50 FEET OF STORM DRAINS, OPEN DITCHES OR SURFACE WATERS. THEY SHOULD BE IN A CONVENIENT LOCATION FOR THE TRUCKS, PREFERABLE NEAR THE PLACE WHERE THE CONCRETE IS BEING POURED, BUT FAR ENOUGH FROM OTHER VEHICLAR TRAFFIC TO MINIMIZE THE POTENTIAL FOR ACCIDENTAL DAMAGE OR SPILLS. WHEREVER POSSIBLE, THEY SHOULD BE LOCATED ON SLOPES NOT EXCEEDING A 2% GRADE. ADDITIONAL INFORMATION ON WASHOUTS MAY BE OBTAINED FROM EPA'S STORMWATER WEBSITE.

COMPOST SOCK WASHOUT

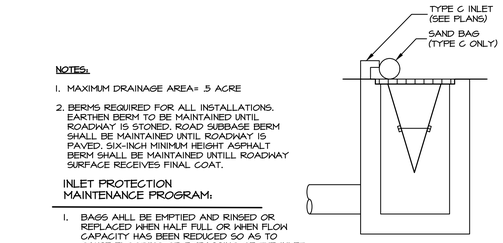
WHEREVER COMPOST SOCK WASHOUTS ARE USED, A SUITABLE IMPERVIOUS GEOMEMBRANE SHOULD BE PLACED AT THE LOCATION OF THE WASHOUT. COMPOST SOCKS SHOULD BE STAKED IN THE MANNER RECOMMENDED BY THE MANUFACTURER AROUND PERIMETER OF THE GEOMEMBRANCE SO AS TO FORM A RING WITH ENDS OF THE SOCK LOCATED A THE UPSLOPE CORNER. CARE SHOULD BE TAKEN TO ENSURE CONTINUOUS CONTACT OF THE SOCK WITH THE GEOMEMBRANCE AT ALL LOCATIONS. WHERE NECESSARY, SOCKS MAY BE STACKED AND STAKED SO AS TO FOR A TRIANGULAR CROSS-SECTION.

WASHOUT INSPECTION SCHEDULE AND REPORTING

1. INSPECTION OF COMPOST FILTER SOCK WASHOUT AREA SHALL OCCUR AS FOLLOWS:
   - DAILY
   - AFTER EACH RUNOFF EVENT (THIS IS REQUIRED IN ADDITION TO THE REQUIRED WEEKLY INSPECTION)
2. A WRITTEN REPORT DOCUMENTING EACH INSPECTION AND ANY REPAIRS MADE SHALL BE KEPT AND SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:
   (1) A SUMMARY OF SITE CONDITIONS, E&S BMP AND PCSM BMP, IMPLEMENTATION AND MAINTENANCE AND COMPLIANCE ACTIONS; AND
   (2) THE DATE, TIME, NAME AND SIGNATURE OF THE PERSON CONDUCTING THE INSPECTION.
3. FOR ADDITIONAL INSPECTION AND REPORTING REQUIREMENTS AND INFORMATION, SEE THE NPDES PERMIT CONDITIONS, EFFLUENT LIMITATIONS, MONITORING, AND REPORTING REQUIREMENTS.

B 39 FILTER SOCK CONCRETE WASHOUT

NOT TO SCALE



INSTALLATION DETAIL

NOTES:

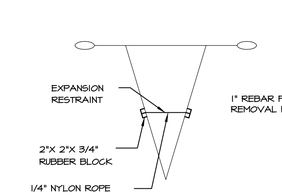
1. MAXIMUM DRAINAGE AREA= .5 ACRE
2. BERMS REQUIRED FOR ALL INSTALLATIONS. EARTHEN BERM TO BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX-INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTILL ROADWAY SURFACE RECEIVES FINAL COAT.

INLET PROTECTION MAINTENANCE PROGRAM:

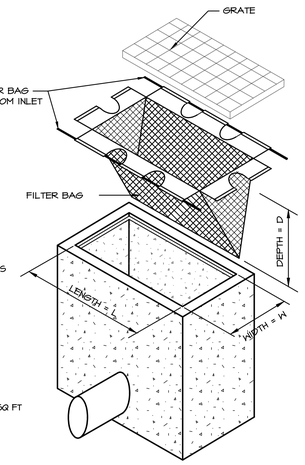
1. BAGS AHLL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET.
2. DAMAGED OR CLOGGED BAGS SHOULD BE REPLACED.
3. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER INSPECTION.

INLET FILTER BAG INSPECTION SCHEDULE AND REPORTING

1. INSPECTION OF THE INLET FILTER BAGS SHOULD OCCUR AS FOLLOWS:
   - WEEKLY
   - AFTER EACH RUNOFF EVENT
2. A WRITTEN REPORT DOCUMENTING EACH INSPECTION AND ANY REPAIRS MADE SHALL BE KEPT AND SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:
   (1) A SUMMARY OF SITE CONDITIONS, E&S BMP AND PCSM BMP, IMPLEMENTATION AND MAINTENANCE AND COMPLIANCE ACTIONS;
   (2) THE DATE, TIME, NAME AND SIGNATURE OF THE PERSON CONDUCTING THE INSPECTION.
3. FOR ADDITIONAL INSPECTION AND REPORTING REQUIREMENTS AND INFORMATION, SEE THE NPDES PERMIT CONDITIONS, EFFLUENT LIMITATIONS, MONITORING, AND REPORTING REQUIREMENTS.



BAG DETAIL



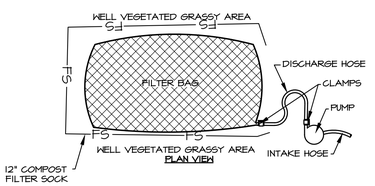
NOTE: THE SILT SACK WILL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS.

REGULAR FLOW SILT SACK ®

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	80 %
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	0.55 SEC -1

C 39 INLET PROTECTION - INLET FILTER BAG

NOT TO SCALE



PLAN VIEW



ELEVATION VIEW

1. LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS, THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

2. A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME ½ FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.
3. BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.
4. THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.
5. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR ½ THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.
6. FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

PUMPED WATER FILTER BAG MAINTENANCE PROGRAM

1. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED.
2. DISPOSE OF SEDIMENT REMOVED FROM FILTER BAGS IN AREAS WITHIN THE LIMIT OF DISTURBANCE REQUIRING FILL MATERIAL OR LEGALLY DISPOSE OFFSITE. USED/EMPTIED FILTER BAGS SHALL BE LEGALLY DISPOSED OFFSITE.

PUMPED WATER FILTER BAG INSPECTION SCHEDULE AND REPORTING

1. INSPECTION OF PUMPED WATER FILTER BAGS SHALL OCCUR AS FOLLOWS:
   - DAILY
2. A WRITTEN REPORT DOCUMENTING EACH INSPECTION AND ANY REPAIRS MADE SHALL BE KEPT AND SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:
   (1) A SUMMARY OF SITE CONDITIONS, E&S BMP AND PCSM BMP, IMPLEMENTATION AND MAINTENANCE AND COMPLIANCE ACTIONS; AND
   (2) THE DATE, TIME, NAME AND SIGNATURE OF THE PERSON CONDUCTING THE INSPECTION.
3. FOR ADDITIONAL INSPECTION AND REPORTING REQUIREMENTS AND INFORMATION, SEE THE NPDES PERMIT CONDITIONS, EFFLUENT LIMITATIONS, MONITORING, AND REPORTING REQUIREMENTS, ITEM NO. 2.A (VISUAL INSPECTIONS) FOUND ON SHEET ESC 1.0.

D 39 PUMPED WATER FILTER BAG DETAIL

NOT TO SCALE

REVISIONS PER:		DATE:	BY:
1.	COL/LCCD COMMENTS	3/28/25	EWB
2.	-	-	-
3.	-	-	-
4.	-	-	-
5.	-	-	-

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — ELIZABETH WERNER BALDWIN — ENGINEER — PE080726

PENNSYLVANIA — REGISTERED LANDSCAPE ARCHITECT

STORMWATER MANAGEMENT PLAN

SUBJECT:

ESC DETAILS

MCCASKEY HIGH SCHOOL

MCCASKEY HIGH SCHOOL STADIUM RENOVATIONS

CITY OF LANCASTER - LANCASTER COUNTY - PENNSYLVANIA

CLIENT:

MM ARCHITECTS

214 NORTH DUKE STREET

LANCASTER, PA 17602

(717) 393-3211

MANAGER:	HDC	DATE:	January 30, 2025
DESIGNER:	EWB	PROJECT NO.	AZ202-015
DRAWN BY:	JMT	SCALE:	AS SHOWN

DRAWING NO.

39 OF 53

TEMPORARY VEGETATIVE STABILIZATION

SPECIES	ANNUAL RYE (SPRING) OR WINTER RYE (FALL)
% PURE LIVE SEED	95%
APPLICATION RATE	200 LB/ACRE
FERTILIZER TYPE	10-10-10
FERTILIZER APPL. RATE	500 LB/ACRE
LIMING RATE	1 TON/ACRE
MULCH TYPE	HAY OR STRAW
MULCHING RATE	3 TONS/ACRE

PERMANENT VEGETATIVE STABILIZATION

TOPSOIL PLACEMENT DEPTH	4-8 IN.
SPECIES	KENTUCKY BLUEGRASS AND PERENNIAL RYEGRASS (1)
% PURE LIVE SEED	95%
APPLICATION RATE	87 LB/ACRE (BLUEGRASS); 240 LB/ACRE (RYEGRASS)
FERTILIZER TYPE	PER SOIL TEST (10-10-20 IF NO TEST DATA)
FERTILIZER APPL. RATE	PER SOIL TEST (1,000 LB/ACRE IF NO TEST DATA)
LIMING RATE	PER SOIL TEST (6 TONS/ACRE IF NO TEST DATA)
MULCH TYPE	HAY OR STRAW
MULCHING RATE	3 TONS/ACRE
ANCHOR MATERIAL	POLYMERIC TACKIFIER
ANCHORING METHOD	SPRAY APPLY W/ A HYDRO-SEEDER OR SIMILAR
RATE OF ANCHOR MATERIAL APPL.	20 LB/ACRE
SEEDING SEASON DATES	APRIL 1 - OCTOBER 15

PERMANENT VEGETATIVE STABILIZATION (SLOPES ≥ 8%)

TOPSOIL PLACEMENT DEPTH	4-8 IN.
SPECIES	KENTUCKY BLUEGRASS AND PERENNIAL RYEGRASS (1)
% PURE LIVE SEED	95%
APPLICATION RATE	87 LB/ACRE (BLUEGRASS); 240 LB/ACRE (RYEGRASS)
FERTILIZER TYPE	PER SOIL TEST (10-10-20 IF NO TEST DATA)
FERTILIZER APPL. RATE	PER SOIL TEST (1,000 LB/ACRE IF NO TEST DATA)
LIMING RATE	PER SOIL TEST (6 TONS/ACRE IF NO TEST DATA)
MULCH TYPE	HAY OR STRAW
MULCHING RATE	3 TONS/ACRE
ANCHOR MATERIAL	LIGHTWEIGHT PLASTIC, FIBER, OR PAPER NETTING
ANCHORING METHOD	APPLY/STAPLE TO MANUFACTURER'S SPECS
RATE OF ANCHOR MATERIAL APPL.	REFER TO MANUFACTURER'S SPECIFICATIONS
SEEDING SEASON DATES	APRIL 1 - OCTOBER 15

TEMPORARY SEEDING NOTES:

1. TOPSOIL STOCKPILES AND/OR ROUGH GRADED AREAS SHALL BE SEEDED AND MULCHED IMMEDIATELY IN ACCORDANCE WITH THE SEEDING/MULCHING SCHEDULE.
2. USE HAY OR STRAW MULCH AT THE SPECIFIED RATE FOR AREAS THAT HAVE BEEN SEEDED WITH A TEMPORARY SEED MIXTURE.
3. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE SPECIFIED RATES.

PERMANENT VEGETATIVE STABILIZATION SPECIFICATIONS:

PERMANENT SEEDING/VEGETATIVE STABILIZATION WILL BE IN ACCORDANCE WITH THE SEEDING SCHEDULE AND THE FOLLOWING PROCEDURES:

1. ROUGH GRADE AND REMOVE ALL DEBRIS, LARGE STONES, AND CONSTRUCTION MATERIALS.
2. APPLY AGRICULTURAL GRADE LIME AS SPECIFIED BY THE SOIL TEST OR AT A MINIMUM RATE OF 6 TONS/ACRE.
3. APPLY FERTILIZER IN ACCORDANCE WITH THE SOIL TEST. IN THE ABSENCE OF A SOIL TEST, APPLY 10-10-20 FERTILIZER AT A RATE OF 1,000 lbs/ACRE.
4. TILL ALL ABOVE MATERIALS THOROUGHLY INTO A 4"-6" SOIL DEPTH.
5. FINISH GRADE FOR SEEDING.
6. APPLY SEED AT THE SPECIFIED APPLICATION RATE AS INDICATED ON THE SEEDING SCHEDULE(S) - SEE GENERAL SEEDING NOTE 2.
7. RAKE OR DRAG TO COVER SEED LIGHTLY.
8. ROLL LIGHTLY TO PLACE SEED IN CONTACT WITH THE SOIL.
9. APPLY HAY OR STRAW MULCH AT A RATE OF 3 TONS/ACRE.
10. MULCH SHALL BE ANCHORED AS SPECIFIED OR IN ACCORDANCE WITH THE CURRENT PENN STATE UNIVERSITY AGRONOMY GUIDE.

GENERAL SEEDING NOTES:

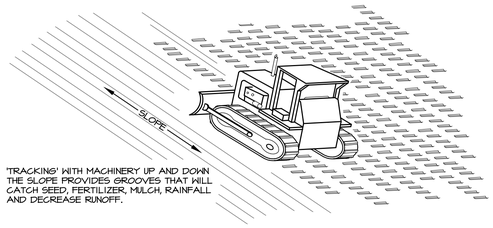
1. USE TWO (2) VARIETIES OF KENTUCKY BLUEGRASS AND TWO (2) VARIETIES OF PERENNIAL RYEGRASS IN THE PERMANENT/PERMANENT STEEP SLOPE MIXTURES, ALL IN EQUAL PARTS (I.E. 25% EACH).
2. IF PERMANENT SEEDING IS NOT PRACTICAL DUE TO THE TIME OF YEAR, DISTURBED AREA SHALL BE SEEDED WITH ANNUAL RYE (SPRING) OR WINTER RYE (FALL) GRASS AT A RATE OF 200 lbs/ACRE AND MULCHED WITH STRAW AT A RATE OF 3 TONS PER ACRE.
3. THE DEPARTMENT RECOMMENDS THAT SOIL TESTING BE DONE PRIOR TO SEEDING AND MULCHING TO DETERMINE THE PROPER SOIL AMENDMENTS AND APPLICATION RATES FOR THE PROPOSED SEED MIXTURE(S). SOIL TEST KITS ARE INEXPENSIVE AND MAY BE OBTAINED FROM THE COUNTY COOPERATIVE EXTENSION SERVICE OFFICES. WHEN DONE PROPERLY, SOIL TESTS CAN ACTUALLY SAVE MONEY THAT WOULD OTHERWISE BE LOST ON IMPROPER SOIL AMENDMENTS, UNSUCCESSFUL SEEDINGS, AND DAMAGE CAUSED BY EROSION OF UNSTABILIZED AREAS. IN THE ABSENCE OF A SOIL TEST, SOIL AMENDMENTS SHOULD BE ADDED AT THE RATES SPECIFIED BY THE SELECTED SEEDING REFERENCE.
4. FILL SLOPES SHOULD BE SEEDED AND MULCHED AT REGULAR VERTICAL INCREMENTS - 15 TO 25 FEET MAXIMUM - AS THE FILL IS BEING CONSTRUCTED. THIS WILL ALLOW THE BOTTOM OF THE FILL TO PROGRESS TOWARD STABILIZATION WHILE WORK CONTINUES ON THE UPPER PORTION, MAKING FINAL STABILIZATION EASIER TO ACHIEVE AND PROVIDING SOME VEGETATIVE BUFFERING AT THE BOTTOM OF THE SLOPE.
5. WHEREVER SEED AND MULCH IS APPLIED BY HYDROSEEDING METHODS, THE SEED AND MULCH SHOULD BE APPLIED IN SEPARATE APPLICATIONS WITH THE SEED BEING APPLIED FIRST AND THE MULCH SPRAYED ON TOP OF THE SEED. THIS IS TO ENSURE THAT THE SEED MAKES CONTACT WITH THE UNDERLYING SOIL. SOIL PREPARATION SHOULD BE COMPLETED PRIOR TO ADDING SEED TO THE HYDROSEEDING EQUIPMENT. RUNNING SEED THROUGH THE PUMPING SYSTEM CAN RESULT IN EXCESSIVE ABRASION OF THE SEED AND REDUCE THE PERCENTAGE OF PURE LIVE SEED IN THE APPLICATION. THEREFORE ALL SITE PREPARATION SHOULD BE COMPLETED PRIOR TO THE ARRIVAL OF THE HYDROSEEDER.
6. IN CRITICAL AREAS (E.G. ADJACENT TO OR WITHIN 50 FEET OF STREAMS, PONDS, OR WETLANDS) A PROTECTIVE BLANKET SHOULD BE PROVIDED FOR ALL SEEDED AREAS. CONSIDERATION SHOULD BE GIVEN TO USE OF MULCH WITH NETTING OR PROTECTIVE BLANKETS FOR ALL SEEDED AREAS ON SLOPES 3H:1V OR STEEPER.
7. NO WETLAND AREAS ARE APPROVED FOR DISTURBANCE BY THIS PERMIT APPLICATION.
8. VEHICULAR TRAFFIC SHOULD BE RESTRICTED FROM AREAS TO BE SEEDED TO PREVENT SOIL COMPACTION.
9. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
10. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE, THE OPERATOR SHALL STABILIZE ANY AREAS DISTURBED BY THE ACTIVITIES.
11. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE SPECIFIED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE REDISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE STABILIZATION SPECIFICATIONS.
12. DISTURBED AREAS WHICH ARE AT FINISHED GRADE OR WHICH WILL NOT BE REDISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION SPECIFICATIONS.

A 40 SEEDING SCHEDULE & NOTES
NO SCALE

NOTES:

1. GRADED AREAS SHOULD BE SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5 INCHES TO PERMIT BONDING OF THE TOPSOIL TO THE SURFACE AREAS AND TO PREVENT TOPSOIL FROM SLIDING DOWN SLOPE.
2. TOPSOIL SHOULD BE UNIFORMLY DISTRIBUTED ACROSS THE DISTURBED AREA TO A DEPTH OF 4 TO 8 INCHES MINIMUM - 2 INCHES ON FILL OUTSLOPES. SPREADING SHOULD BE DONE IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL PREPARATION OR TILLAGE. IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOIL PLACEMENT SHOULD BE CORRECTED IN ORDER TO PREVENT FORMATION OF DEPRESSIONS UNLESS SUCH DEPRESSIONS ARE PART OF THE PCSM PLAN.
3. TOPSOIL SHOULD NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION. COMPACTED SOILS SHOULD BE SCARIFIED 6 TO 12 INCHES ALONG CONTOUR WHEREVER POSSIBLE PRIOR TO SEEDING.

C 40 TOPSOIL APPLICATION / REPLACEMENT NOTES
NO SCALE



'TRACKING' WITH MACHINERY UP AND DOWN THE SLOPE PROVIDES GROOVES THAT WILL CATCH SEED, FERTILIZER, MULCH, RAINFALL AND DECREASE RUNOFF.

TRACKING

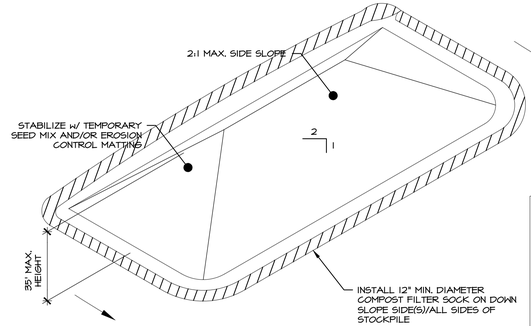
E 40 SLOPE TRACKING
NO SCALE

MULCH TYPE	APPLICATION RATES (MIN.) PER ACRE	PER 1,000 sq.ft.	PER 1,000 sq.yd.	NOTES
STRAW	3 TONS	140 lb.	1,240 lb.	EITHER WHEAT OR OAT STRAW, FREE OF WEEDS, NOT CHOPPED OR FINELY BROKEN
HAY	3 TONS	140 lb.	1,240 lb.	TIMOTHY, MIXED CLOVER AND TIMOTHY OR OTHER NATIVE FORAGE GRASSES
WOOD CHIPS	4-6 TONS	185-275 lb.	1,650-2,500 lb.	MAY PREVENT GERMINATION OF GRASSES AND LEGUMES
HYDROMULCH	1 TON	47 lb.	415 lb.	SEE NOTE 5 FOR LIMITATIONS

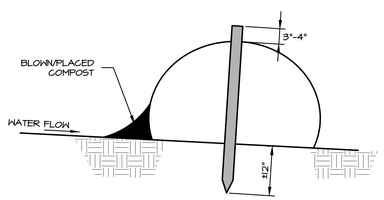
NOTES:

1. STRAW AND HAY MULCH SHOULD BE ANCHORED OR TACKIFIED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDBLOWN.
2. POLYMERIC AND GUM TACKIFIERS MIXED AND APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS MAY BE USED TO TACK MULCH. AVOID APPLICATION DURING RAIN AND ON WINDY DAYS. A 24-HR CURING PERIOD AND A SOIL TEMPERATURE OF 45° F ARE TYPICALLY REQUIRED.
3. SYNTHETIC BINDERS, OR CHEMICAL BINDERS, MAY BE USED AS RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH PROVIDED SUFFICIENT DOCUMENTATION IS PROVIDED TO SHOW THEY ARE NON-TOXIC TO NATIVE PLANT AND ANIMAL SPECIES.
4. MULCH ON SLOPES OF 8% OR STEEPER SHOULD BE HELD IN PLACE WITH NETTING. LIGHTWEIGHT PLASTIC, FIBER, OR PAPER NETS MAY BE STAPLED OVER THE MULCH ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
5. SHREDDED PAPER HYDROMULCH SHOULD NOT BE USED ON SLOPES STEEPER THAN 5%. WOOD FIBER HYDROMULCH MAY BE APPLIED ON STEEPER SLOPES PROVIDED A TACKIFIER IS USED. THE APPLICATION RATE FOR ANY HYDROMULCH SHOULD BE 2,000 LB/ACRE AT A MINIMUM.

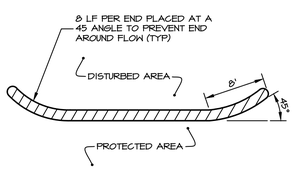
D 40 MULCH APPLICATION RATES
NO SCALE

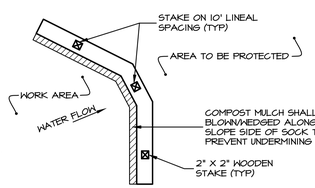


F 40 TOPSOIL STOCKPILE DETAIL
NO SCALE



FILTER SOCK COMPOST MATERIAL AS PER SPECIFICATIONS.





GENERAL NOTES:

1. WHERE SOCKS ARE PLACED ON PAVED SURFACES, CONCRETE BLOCKS SHOULD BE USED IMMEDIATELY DOWNSLOPE OF THE SOCKS (AT THE SAME INTERVALS RECOMMENDED FOR THE STAKES) TO HELP HOLD THE SOCK IN PLACE.
2. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN SOCK ALIGNMENT. STAKES MAY BE INSTALLED IMMEDIATELY DOWNSLOPE OF THE SOCK IF SO SPECIFIED BY THE MANUFACTURER.
3. TRAFFIC SHALL NOT BE PERMITTED TO CROSS SOCKS.
4. BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
5. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

FILTER SOCK FABRIC MINIMUM SPECIFICATIONS

MATERIAL TYPE	3 mil HDPE	5 mil HDPE	5 mil HDPE	MULTI-FILAMENT POLYPROPYLENE (MFPP)	HEAVY DUTY MULTI-FILAMENT POLYPROPYLENE (HDMFPP)
MATERIAL CHARACTERISTICS	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE	BIO-DEGRADABLE	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE
SOCK DIAMETERS	12" 18"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"
MESH OPENING	3/8"	3/8"	3/8"	3/8"	1/8"
TENSILE STRENGTH		26 psi	26 psi	44 psi	202 psi
ULTRAVIOLET STABILITY % ORIGINAL STRENGTH (ASTM G-155)	23% AT 1000 hr.	23% AT 1000 hr.		100% AT 1000 hr.	100% AT 1000 hr.
MINIMUM FUNCTIONAL LONGEVITY	6 MONTHS	9 MONTHS	6 MONTHS	1 YEAR	2 YEARS
TWO-PLY SYSTEMS					
INNER CONTAINMENT NETTING	HDPE BIAXIAL NET				
	CONTINUOUSLY WOUND				
	FUSION-WELDED JUNCTURES				
	3/4" X 3/4" MAX. APERTURE SIZE				
OUTER FILTRATION MESH	COMPOSITE POLYPROPYLENE FABRIC (WOVEN LAYER AND NON-WOVEN FLEECE MECHANICALLY FUSED VIA NEEDLE PUNCH)				
	3/16" MAX. APERTURE SIZE				
SOCK FABRICS COMPOSED OF BURLAP MAY BE USED ON PROJECTS LASTING 6 MONTHS OR LESS.					

COMPOST NOTES:

1. COMPOST SHOULD BE A WELL DECOMPOSED, WEED-FREE ORGANIC MATTER DERIVED FROM AGRICULTURE, FOOD, STUMP GRINDINGS, AND YARD OR WORK/BARK ORGANIC MATTER SOURCES. THE COMPOST SHOULD BE AEROBICALLY COMPOSTED. THE COMPOST SHOULD POSSESS NO OBJECTIONABLE ODORS AND SHOULD BE REASONABLY FREE (1% BY DRY WEIGHT) OF MAN-MADE FOREIGN MATTER. THE COMPOST PRODUCT SHOULD NOT RESEMBLE THE RAW MATERIAL FROM WHICH IT WAS DERIVED. WOOD AND BARK CHIPS, GROUND CONSTRUCTION DEBRIS, OR REPROCESSED WOOD PRODUCTS ARE NOT ACCEPTABLE AS THE ORGANIC COMPOST OF THE MIX.
2. USE ONLY MATURE COMPOST THAT MEETS THE FOLLOWING SPECIFICATIONS. THE STANDARDS CONTAINED IN THE PENNDOT PUBLICATION 408 ARE AN ACCEPTABLE ALTERNATIVE.

COMPOST STANDARDS

ORGANIC MATTER CONTENT	25% - 100% (DRY WEIGHT BASIS)
ORGANIC PORTION	FIBROUS AND ELONGATED
pH	5.5 - 8.5
MOISTURE CONTENT	30% - 60%
PARTICLE SIZE	30%-50% PASS THROUGH 3/8" SIEVE
SOLUBLE SALT CONCENTRATION	5.0 dS/m (mmhos/cm) MAXIMUM

FILTER SOCK MAINTENANCE PROGRAM

1. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF OF THE ABOVEGROUND HEIGHT OF THE SOCK. DISPOSE OF SEDIMENT REMOVED FROM THE FILTER SOCK IN AREAS WITHIN THE LIMIT OF DISTURBANCE REQUIRING FILL MATERIAL OR LEGALLY DISPOSE OFFSITE.

FILTER SOCK INSPECTION SCHEDULE AND REPORTING

1. INSPECTION OF COMPOST FILTER SOCKS SHALL OCCUR AS FOLLOWS:
   - WEEKLY
   - AFTER EACH RUNOFF EVENT (THIS IS REQUIRED IN ADDITION TO THE REQUIRED WEEKLY INSPECTION)
2. A WRITTEN REPORT DOCUMENTING EACH INSPECTION AND ANY REPAIRS MADE SHALL BE KEPT AND SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:
   (1) A SUMMARY OF SITE CONDITIONS, E&S BMP AND PCSM BMP, IMPLEMENTATION AND MAINTENANCE AND COMPLIANCE ACTIONS; AND
   (2) THE DATE, TIME, NAME AND SIGNATURE OF THE PERSON CONDUCTING THE INSPECTION.

B 40 COMPOST FILTER SOCK
NOT TO SCALE

REVISIONS PER:	DATE:	BY:
1. COU/LCCD COMMENTS	3/28/25	EWB
2. -	-	-
3. -	-	-
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PENNSYLVANIA — REGISTERED LANDSCAPE ARCHITECT

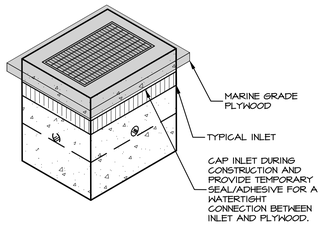
STORMWATER MANAGEMENT PLAN

SUBJECT:
ESC DETAILS
MCCASKEY HIGH SCHOOL
MCCASKEY HIGH SCHOOL STADIUM RENOVATIONS
CITY OF LANCASTER - LANCASTER COUNTY - PENNSYLVANIA

CLIENT:
MM ARCHITECTS
214 NORTH DUKE STREET
LANCASTER, PA 17602
(717) 393-3211

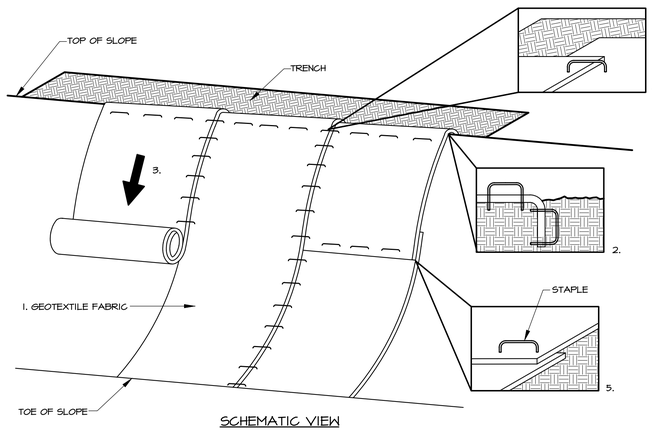
MANAGER:	HDC	DATE:	January 30, 2025
DESIGNER:	EWB	PROJECT NO.	AZ202-015
DRAWN BY:	JMT	SCALE:	AS SHOWN

DRAWING NO.
40 OF 53



A 41 CAPPED INLET

NO SCALE



SCHEMATIC VIEW

B 41 EROSION CONTROL FABRIC INSTALLATION (SLOPES)

NOT TO SCALE

EROSION CONTROL MATTING MAINTENANCE PROGRAM

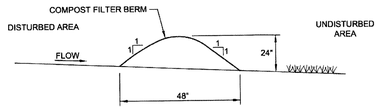
1. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

EROSION CONTROL BLANKET INSPECTION SCHEDULE AND REPORTING

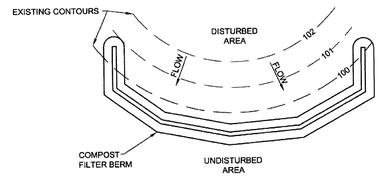
1. INSPECTION OF THE EROSION CONTROL BLANKET SHALL OCCUR AS FOLLOWS:
   - WEEKLY
   - AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM OF 70% COVERAGE THROUGHOUT THE BLANKETED AREA.
2. A WRITTEN REPORT DOCUMENTING EACH INSPECTION AND ANY REPAIRS MADE SHALL BE KEPT AND SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:
   (1) A SUMMARY OF SITE CONDITIONS, E&S BMP AND PCSM BMP, IMPLEMENTATION AND MAINTENANCE AND COMPLIANCE ACTIONS;
   (2) THE DATE, TIME, NAME AND SIGNATURE OF THE PERSON CONDUCTING THE INSPECTION.
3. FOR ADDITIONAL INSPECTION AND REPORTING REQUIREMENTS AND INFORMATION, SEE THE NPDES PERMIT CONDITIONS, EFFLUENT LIMITATIONS, MONITORING, AND REPORTING REQUIREMENTS.

NOTES:

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. ROLL THE BLANKETS DOWN THE SLOPE IN THE DIRECTION OF THE WATER FLOW.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 6" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.
6. REFER TO MANUFACTURER'S SPECIFICATIONS FOR STAPLE PATTERN AND SPECIFIC INSTALLATION REQUIREMENTS.



SECTION VIEW



PLAN VIEW

Adapted from PennDOT

Compost shall meet the standards in Table 4.2.

Compost filter berms shall be placed at existing level grade. Both ends of the berm shall be extended at least 8 feet up slope at 45 degrees to the main berm alignment (see Figure 4.1).

The maximum slope length above a compost filter berm shall not exceed that shown in Table 4.4 for the standard silt fence (18" high fence).

Tall grass shall be cut prior to installation to minimize potential for undercutting. Berm shall be netted or otherwise anchored after installation.

Sediment shall be removed when accumulations reach 1/3 the aboveground height of the berm.

Any section compost filter berm which has been undermined or topped shall be immediately replaced. Concentrated flows shall not be directed toward any compost filter berm.

B 41 COMPOST FILTER BERM

NO SCALE

REVISIONS PER:		DATE:	BY:
1.	COL/LCCD COMMENTS	3/28/25	EWB
2.	-	-	-
3.	-	-	-
4.	-	-	-
5.	-	-	-

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ELIZABETH WERNER BALDWIN ENGINEER PE080758

PENNSYLVANIA REGISTERED LANDSCAPE ARCHITECT

STORMWATER MANAGEMENT PLAN

SUBJECT:

ESC DETAILS

MCCASKEY HIGH SCHOOL

MCCASKEY HIGH SCHOOL STADIUM RENOVATIONS

CITY OF LANCASTER - LANCASTER COUNTY - PENNSYLVANIA

CLIENT:

MM ARCHITECTS

214 NORTH DUKE STREET

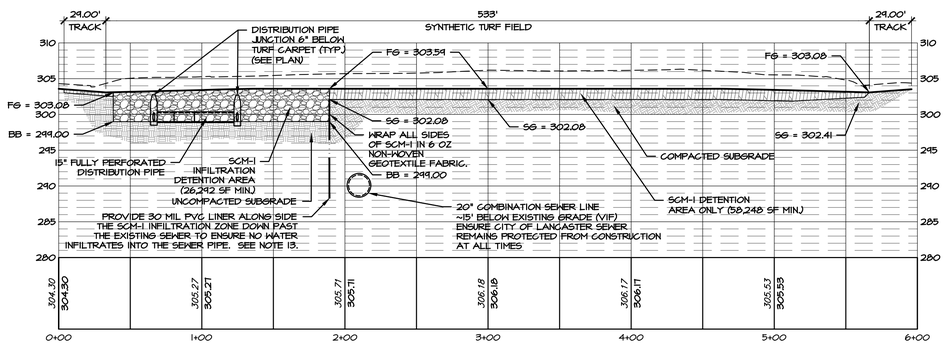
LANCASTER, PA 17602

(717) 393-3211

MANAGER:	HDC	DATE:	January 30, 2025
DESIGNER:	EWB	PROJECT NO.	AZ202-015
DRAWN BY:	JMT	SCALE:	AS SHOWN

DRAWING NO.

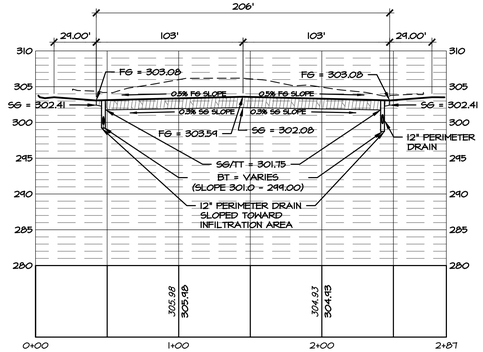
41 OF 53



SECTION A-A

HORZ. SCALE: 1"=50'
VERT. SCALE: 1"= 10'

(SEE GRADING PLAN FOR PLAN VIEW)



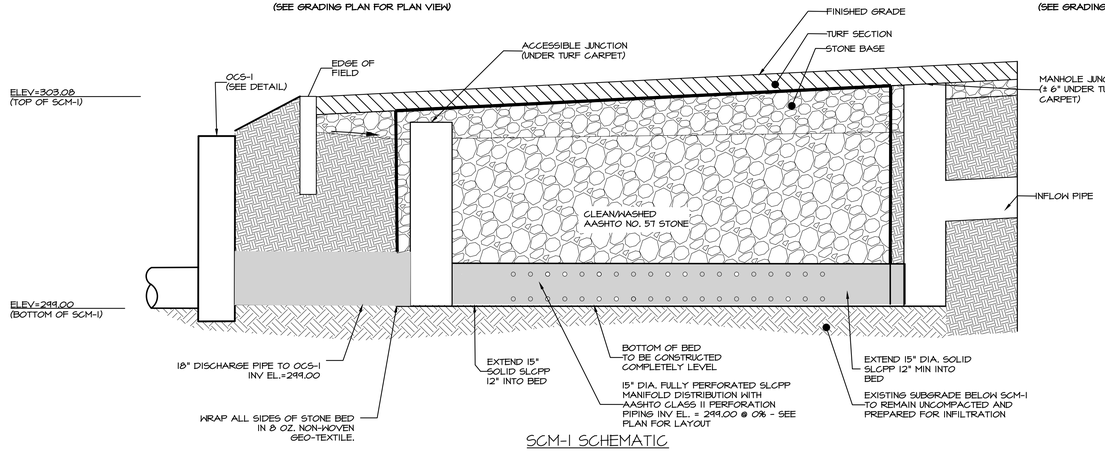
SECTION B-B

HORZ. SCALE: 1"=50'
VERT. SCALE: 1"= 10'

(SEE GRADING PLAN FOR PLAN VIEW)

SCM-1 NOTES:

1. ALL STORMWATER PIPES, JOINTS, AND CONNECTIONS TO STRUCTURES SHALL BE CONSIDERED WATERTIGHT.
2. THE STORMWATER SYSTEM IS NOT DESIGNED TO RECEIVE OR ACCOMMODATE CONSTRUCTION TRAFFIC OR LOADING. THE CONTRACTOR SHALL ENSURE PROTECTION OF ALL COMPONENTS OF THE STORMWATER SYSTEM DURING CONSTRUCTION.
3. THE STORMWATER SYSTEM SHALL BE CONSTRUCTED IN THE APPROVED LOCATION UNLESS OTHERWISE APPROVED.
4. FULL TIME OBSERVATION OF THE EXCAVATION OF THE BASINS BY AN AUTHORIZED GETECHNICAL REPRESENTATIVE TO VERIFY SUITABLE CONDITIONS ARE PRESENT IS REQUIRED. HAND PROBING SHOULD OCCUR TO ENSURE THERE ARE NO LIMITING ZONES WITHIN 24" BELOW THE BOTTOM OF THE SCM.
5. CONTRACTOR TO PROVIDE VERIFICATION OF 24" PROBING TO ELA GROUP AND THE CITY OF LANCASTER.
6. THE PROPOSED INFILTRATION FACILITY RELY ON PERMEABLE SOIL CONDITIONS TO DEWATER AND FUNCTION PROPERLY. AS PART OF THE DESIGN PROCESS, GEOLOGIC INFILTRATION AND/OR SOIL TESTING WAS CONDUCTED BY A QUALIFIED PROFESSIONAL, SOIL SCIENTIST, OR LICENSED GEOLOGIST TO ASSURE THAT CONDITIONS WERE CONDUCIVE TO UTILIZE THIS TYPE OF FACILITY FOR STORM WATER MANAGEMENT CONTROL. EVERY PRECAUTION MUST BE MAINTAINED BY THE CONTRACTOR DURING THE CONSTRUCTION OF BEDS TO ASSURE THAT COMPACTION DOES NOT OCCUR WHICH WOULD COMPROMISE THE PERMEABILITY OF THE FLOOR OF THE INFILTRATION BED. IF AFTER INSTALLATION, THE INFILTRATION BEDS DO NOT FUNCTION AS DESIGNED, AND THE CAUSE IS DETERMINED, BY A QUALIFIED PROFESSIONAL, TO BE COMPACTION DURING CONSTRUCTION, THE CONTRACTOR WILL BE RESPONSIBLE TO PERFORM REMEDIATION, OUTLINED BY THE QUALIFIED PROFESSIONAL, TO RESTORE PRE-CONSTRUCTION PERMEABILITY. ADD TO THIS NOTE 6: CONFIRMATORY INFILTRATION TESTING SHALL BE PERFORMED AS DESCRIBED IN THE CITY'S 61 DESIGN MANUAL, OR PER METHODS IN THE PA STORMWATER BMP MANUAL (LATEST VERSION). THE TESTING MUST OCCUR ONCE THE BASIN HAS BEEN EXCAVATED TO SUBGRADE. TESTING SHOULD OCCUR AT THE GREATER OF THE TWO, THREE (3) TESTS PER BMP/ACRE OR TWO (2) TESTS PER BMP. IF THE AVERAGE RATE IS LESS THAN 80% OF THE INITIAL DESIGN INFILTRATION RATE OR NOW EXCEEDS 10 INCHES PER HOUR, THE DESIGN ENGINEER AND THE CITY SHALL BE NOTIFIED IMMEDIATELY. ANY PROPOSED BMP CHANGES WILL REQUIRE APPROVAL FROM THE CITY (AN OTHER NECESSARY PARTIES) AND SHOULD BE CAPTURED ON THE RECORD DRAWINGS ALONG WITH THE TEST RESULTS.
7. APPROPRIATE EARTH MOVING TECHNIQUES MUST BE SELECTED AND UTILIZED TO ELIMINATE POTENTIAL COMPACTION OF SOIL IN AREAS RESERVED FOR INFILTRATION BMPS DURING ALL PHASES OF CONSTRUCTION.
8. THE BOTTOM OF THE SCM SHALL BE PREPARED FOR INFILTRATION BY SCARIFYING OR OTHER APPROPRIATE TECHNIQUES.
9. CONFIRMATORY INFILTRATION TESTING BY THE GEOTECHNICAL ENGINEER OF RECORD IS REQUIRED FOR SCM-1 PRIOR TO PLACING BACKFILL. TESTING AND RESULTS SHALL BE COORDINATED WITH ELA GROUP.
10. ALL STRUCTURES WITHIN THE TURF FIELD, UNDER THE TURF CARPET SHOULD BE MARKED IN THE FIELD FOR MAINTENANCE AND INSPECTION AS NEEDED.
11. SEE INFILTRATION SYSTEM CONSTRUCTION NOTES ON THIS SHEET.
12. IF IT CAN BE VERIFIED THAT SEWER IS WATERTIGHT, NO LINER IS NEEDED. CONTRACTOR TO WORK WITH GEOTECHNICAL ENGINEER TO PROVIDE VERIFICATION TO ELA GROUP AND CITY OF LANCASTER DURING CONSTRUCTION IF ACHIEVED. CONTRACTOR TO VERIFY IN FILED SEWER LOCATION AND DEPTH.
13. ALL PIPES WITHIN THE BMPS ARE TO BE CORRUGATED HDPE.
14. ALL PERFORATED DISTRIBUTION PIPING ARE TO BE AASHTO CLASS II PERFORATIONS WITH THE PERFORATIONS PROVIDED ON THE OUTSIDE VALLEYS OF THE CORRUGATIONS.
15. CLAY PLUGS SHALL BE PROVIDED ON ALL PIPES ENTERING AND LEAVING THE SCM.
16. ALL STONE WITHIN SCM-1 SHOULD BE CLEAN WASHED ASSHTO NO. 57.
17. THE GEOTEXTILE FABRIC WRAPPING THE INFILTRATION SCM IS TO BE NON-WOVEN AND IN ACCORDANCE WITH CHAPTER 5 OF THE CITY OF LANCASTER GREEN INFRASTRUCTURE MANUAL, CHAPTER 5, GEOTEXTILE FABRIC AND IMPERMEABLE LINERS, PARAGRAPH BF.



SCM-1 SCHEMATIC

INFILTRATION FACILITY INFORMATION

BED NO.	INFILTRATION FOOTPRINT (SF/AC)	IMPERVIOUS AREA (SF/AC)	OVERALL AREA (SF/AC)	LOADING RATIO (I)	LOADING RATIO (O)	INFILTRATION RATE (MIN.)	INFIL. ELEV.
SCM-1	26,242/0.60	200,812/4.61 (INCLUDES TURF)	235,224/5.44	7.6 : 1	8.9 : 1	0.50 INCHES/HR	299.00

A 42 SCM-1 SECTIONS, SCHEMATIC, NOTES AND DETAILS

AS NOTED

PERFORMANCE GUARANTEE:

1. SEE GRADING PLAN FOR SPECIFIC GRADING OF INFILTRATION FACILITIES.
2. ABOVE-GROUND INFILTRATION FACILITY BOTTOMS SHALL BE STABILIZED WITH THE SPECIFIED SEED MIX. SEE BMP PLANTINGS SPECIFICATIONS FOR SEED MIX. ALTERNATIVE SEED MIXES MAY BE USED WITH APPROVAL OF THE DESIGN AND MUNICIPAL ENGINEERS.
3. THE PROPOSED STORMWATER INFILTRATION SYSTEMS, AS SHOWN, RELY ON PERMEABLE SOIL CONDITIONS TO DEWATER AND FUNCTION PROPERLY. AS PART OF THE DESIGN PROCESS, GEOLOGIC, INFILTRATION, AND/OR SOIL TESTING WAS CONDUCTED BY A QUALIFIED PROFESSIONAL, SOIL SCIENTIST, OR LICENSED GEOLOGIST TO ASSURE CONDITIONS ARE CONDUCIVE TO INFILTRATION. EVERY PRECAUTION MUST BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION TO ASSURE THAT COMPACTION DOES NOT OCCUR WHICH WOULD COMPROMISE THE PERMEABILITY OF THE FLOOR OF THE INFILTRATION FACILITIES. IF AFTER INSTALLATION, THE INFILTRATION FACILITIES DO NOT FUNCTION AS DESIGNED, AND THE CAUSE IS DETERMINED, BY A QUALIFIED PROFESSIONAL, TO BE COMPACTION DURING CONSTRUCTION, THE CONTRACTOR WILL BE RESPONSIBLE TO PERFORM REMEDIATION, OUTLINED BY THE QUALIFIED PROFESSIONAL, TO RESTORE PRE-CONSTRUCTION PERMEABILITY.
4. THE ONSITE SOILS CONTAIN HIGH PERCENTAGES OF FINE SOIL PARTICLES (SILT AND CLAY) AND ARE THUS SUSCEPTIBLE TO LOSS OF PERMEABILITY DURING THE CONSTRUCTION PROCESS THROUGH EXCAVATION, PONDING OF WATER, AND REMOVAL OF VEGETATION. A GEOTECHNICAL PROFESSIONAL SHALL BE PRESENT DURING CONSTRUCTION TO APPROVE THE SUBGRADE AND CONFIRM IN-SITU INFILTRATION RATES PRIOR TO PLACEMENT OF AMENDED SOILS. INFILTRATION SYSTEM SHOULD BE CONSTRUCTED DURING PERIODS OF DRY WEATHER. SUBGRADES SHALL NOT REMAIN EXPOSED FOR MORE THAN 72 HOURS AND EVERY EFFORT SHOULD BE MADE TO IMMEDIATELY BACKFILL WITH AMENDED SOILS/STONE BACKFILL, AS SPECIFIED FOR THE SPECIFIC SYSTEM, FOLLOWING EXCAVATION/EXPOSURE OF SUBGRADE. IF THE INFILTRATIVE CAPACITY OF THE SUBGRADE MATERIAL HAS BEEN COMPROMISED THE GEOTECHNICAL PROFESSIONAL SHALL PROVIDE RECOMMENDATIONS FOR REMEDIATION TO ENSURE INFILTRATION RATES OF AT LEAST 0.10 IN/HR BUT NOT MORE THAN 6.0 IN/HR.
5. IN-PLACE INFILTRATION TESTS OF THE AMENDED SOIL IS REQUIRED IN ALL INFILTRATION BMPS WHERE AMENDED SOILS OTHER THAN A SPECIFIED, PRE-BLENDED MIX ARE USED. THE GEOTECHNICAL ENGINEER OVERSEEING BASIN CONSTRUCTION SHALL SPECIFY THE LOCATIONS AND MINIMUM NUMBER OF TESTS TO BE PERFORMED UTILIZING ACCEPTABLE METHODS AS DESCRIBED IN THE PADEP BMP MANUAL IN ORDER TO CONFIRM THAT ACCEPTABLE INFILTRATION RATES HAVE BEEN ACHIEVED.

INFILTRATION SYSTEM CONSTRUCTION NOTES

1. ENTIRE BOTTOM OF INFILTRATION SYSTEM SHALL BE CONSTRUCTED ON UNDISTURBED GROUND. THE AREAS FOR THE INFILTRATION SYSTEMS SHALL BE FIELD STAKED AND FENCED OFF WITH HIGH VISIBILITY CONSTRUCTION FENCING PRIOR TO CONSTRUCTION.
2. SEE INFILTRATION SYSTEM DETAILS.
3. BASIN EXCAVATION, CONVERSION FROM SEDIMENT REMOVAL FACILITY (IF APPLICABLE) AND SUBGRADE PREPARATION SHALL BE OVERSEEN BY A QUALIFIED GEOTECHNICAL PROFESSIONAL.
4. THE INFILTRATION AREAS (HEREAFTER, "SUBJECT AREA(S)") MUST REMAIN UNDISTURBED PRIOR TO CONSTRUCTION TO PREVENT COMPACTION OF THE UNDERLYING SOILS. THE INFILTRATION AREAS MUST BE PROTECTED AT ALL TIMES FROM ANY SILTATION AND COMPACTION BOTH DURING AND FOLLOWING CONSTRUCTION. INSTALL AND MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES IMMEDIATELY.
5. THE CONTRACTOR MUST UTILIZE APPROPRIATE EARTHMOVING EQUIPMENT AND TECHNIQUES IN THE CONSTRUCTION OF THE INFILTRATION SYSTEMS TO ELIMINATE POTENTIAL COMPACTION OF THE SOIL WITHIN THE SUBJECT AREA RESERVED FOR THE INFILTRATION SYSTEMS. EARTHMOVING EQUIPMENT SHALL NOT BE PERMITTED DIRECTLY ON THE SUBJECT AREA OF THE INFILTRATION FACILITIES DURING OR AFTER CONSTRUCTION.
6. HANDHELD EQUIPMENT SHALL BE UTILIZED WITHIN THE SUBJECT AREA. OTHER EQUIPMENT MAY BE USED AROUND THE PERIMETER - BUT OUTSIDE OF - SUBJECT AREAS FOR PURPOSES OF EXCAVATION AND TO SUPPLY SOILS.
7. HEAVY EQUIPMENT, OTHER THAN THAT WHICH IS NECESSARY FOR INFILTRATION FACILITY CONSTRUCTION, AND CONSTRUCTION TRAFFIC SHALL BE RESTRICTED FROM TRAVELING OVER THE PROPOSED LOCATION OF THE INFILTRATIONS SYSTEMS TO MINIMIZE POTENTIAL FOR COMPACTION OF THE SOIL.
8. WHERE THE CONFIGURATION OF THE FACILITY DICTATES THAT ANYTHING OTHER THAN HAND HELD EQUIPMENT MUST OPERATE WITHIN A SUBJECT AREA, EXCAVATION AND FILL PLACEMENT SHALL BE ACCOMPLISHED SUCH THAT THE HEAVY EQUIPMENT IS NEVER WITHIN THE SUBJECT AREA UNLESS THE SURFACE THAT SAID EQUIPMENT OCCUPIES IS AT LEAST TWO (2) FEET ABOVE THE PROPOSED FINISHED SUBGRADE FOR THAT LOCATION. FOR EXCAVATION OPERATIONS, THE EXCAVATOR SHALL WORK FROM HIGHER GROUND AND PROCEED IN A BACKWARDS DIRECTION, MOVING AWAY FROM THE FINISHED EXCAVATION AREA. FOR FILL OPERATIONS/AMENDED SOIL PLACEMENT, AMENDED SOILS SHALL BE PLACED STARTING AT THE PERIMETER OF THE SUBJECT AREA AND PUSHED FORWARD, SUCH THAT EQUIPMENT IS NEVER WITHIN THE SUBJECT AREA UNLESS IT IS ON TOP OF AT LEAST TWO (2) FEET OF SOIL. AVOID USING THE SAME ENTRANCE/EXIT POINTS TO MINIMIZE THE RISK OF SUBGRADE COMPACTION. TRACKED EQUIPMENT ONLY IS PERMITTED ON THE AMENDED SOILS. NO DUMP TRUCKS OR OTHER WHEELED EQUIPMENT IS PERMITTED IN THE SUBJECT AREAS UNLESS AT LEAST 2' OF SEPARATION IS PRESENT ABOVE THE SUBGRADE. IF TRACKED EQUIPMENT IS USED FOR AMENDED SOIL PLACEMENT, MECHANICAL DE-COMPACTION OF THE AMENDED SOILS SHALL BE CARRIED OUT USING A FROST HOOK/RIPPER OR OTHER TILLING IMPLEMENT SET TO A DEPTH OF 12".
9. IF MAINTAINING TWO FEET OF COVER OVER SUBGRADE ELEVATION IS NOT PRACTICAL AND THE CONTRACTOR INTENDS TO UTILIZE ANYTHING OTHER THAN HAND HELD EQUIPMENT WITHIN TWO (2) VERTICAL FEET OF THE SUBGRADE ELEVATION IN A SUBJECT AREA, THE CONTRACTOR SHALL TWO (2) WEEKS PRIOR TO SUCH USE, PROVIDE THE CITY ENGINEER WITH A LIST OF EQUIPMENT TO BE USED WITHIN THE SUBJECT AREA. THE LIST SHALL INCLUDE EQUIPMENT SPECIFICATIONS AND SHALL BE ACCOMPANIED BY ENGINEERING CALCULATIONS CERTIFYING THAT THE EQUIPMENT WILL EXERT A PRESSURE OF 5 PSI OR LESS ON THE SUBGRADE OF THE INFILTRATION FACILITY.
10. EXCAVATE THE INFILTRATION SYSTEMS TO DESIGN DIMENSIONS.
11. THE SUBGRADE MATERIAL SHALL UNDERGO IN-SITU INFILTRATION TESTING TO ENSURE APPROPRIATE INFILTRATION RATES HAVE BEEN ACHIEVED. MECHANICALLY DE-COMPACTED AND/OR BLEND MORE COARSELY GRAINED MATERIAL AS RECOMMENDED BY AND UNDER THE SUPERVISION OF A QUALIFIED GEOTECHNICAL PROFESSIONAL PRIOR TO THE PLACEMENT OF AMENDED SOIL OR GEOTEXTILE FABRIC TO ENSURE LONG TERM FUNCTIONALITY OF THE BMPS.
12. INFILTRATION AREA SUBGRADES SHALL BE PROTECTED FROM SEDIMENT LADEN RUNOFF / SEDIMENTATION DURING CONSTRUCTION. PRIOR TO EXPOSURE OF SUBGRADE/PLACEMENT OF AMENDED SOILS, ENSURE THAT ALL CONTRIBUTING AREAS ARE STABILIZED AND INSTALL ADDITIONAL CONTROL MEASURES (I.E. INLET PROTECT, EROSION CONTROL MATTING, ETC.). AMENDED SOILS / SUBSURFACE INFILTRATION BED COMPONENTS SHOULD BE INSTALLED IMMEDIATELY FOLLOWING EXPOSURE/PREPARATION OF SUBGRADE AND CONFIRMATION OF FIELD-VERIFIED INFILTRAITON RATES. INFILTRATION TESTING SHALL BE COORDINATED ACCORDINGLY.
13. IF SEDIMENT DOES ENTER INTO A SUBJECT AREA, THE CONTRACTOR SHALL CLEAN OUT THE SEDIMENT TO THE MUNICIPALITIES SATISFACTION. THIS MAY REQUIRE THE RECONSTRUCTION OF PORTIONS OF OR THE ENTIRETY OF THE SYSTEM.
14. A MINIMUM TWO (2)-FOOT SEPARATION SHALL BE PROVIDED BETWEEN THE SEASONAL HIGH GROUNDWATER TABLE OR BEDROCK (WHICHEVER IS HIGHER) AND THE BOTTOM OF THE INFILTRATION FACILITY. IF GROUNDWATER AND/OR BEDROCK ARE ENCOUNTERED WITHIN AND/OR ABOVE THIS 2-FOOT ZONE DURING CONSTRUCTION, THE DEVELOPER, THE DESIGN ENGINEER, THE CITY, AND THE CITY ENGINEER SHALL BE NOTIFIED IN WRITING WITHIN TWENTY-FOUR (24) HOURS OF SUCH DISCOVERY. UPON REVIEW OF THE ACTUAL SITE CONDITIONS THE DESIGN ENGINEER SHALL SUBMIT REMEDIAL RECOMMENDATIONS TO THE MUNICIPALITY AND THE MUNICIPAL ENGINEER FOR REVIEW AND APPROVAL.

INFILTRATION VERIFICATION NOTES:

1. INFIELD VERIFICATION OF INFILTRATION RATES ARE REQUIRED FOR ALL INFILTRATION FACILITIES AND SHALL BE CONDUCTED AT THE INFILTRATION ELEVATION (IE SUBGRADE ELEVATION). INFILTRATION TEST SHALL UTILIZE A DOUBLE RING INFILTOMETER TEST AND IN ACCORDANCE WITH PROCEDURES IN APPENDIX C OF THE PENNSYLVANIA STORMWATER BEST MANAGEMENT PRACTICES MANUAL. NO FACTOR OF SAFETY SHOULD BE CONSIDERED IN DETERMINING IF POST-DEVELOPMENT INFILTRATION RATES ARE WITHIN THE ACCEPTABLE RANGE. THE GEOTECHNICAL ENGINEER OVERSEEING BASIN CONSTRUCTION SHALL SPECIFY THE LOCATIONS AND MINIMUM NUMBER OF TESTS TO BE PERFORMED.
2. THE PRESENCE/ABSENCE OF A LIMITING LAYER WITHIN 2 FEET OF THE BOTTOM OF THE BASIN SHALL BE VERIFIED WITH THE USE OF A HAND-PROBE HAVING AN APPROXIMATE DIAMETER OF ¾" OR GREATER BY EXTENDING THE PROBE INTO THE GROUND A MINIMUM OF 2 FEET ON AN APPROXIMATELY 20-25 FT GRID PATTERN ACROSS THE BOTTOM OF THE BASINS. THE CITY SHALL BE NOTIFIED IF A LIMITING LAYER IS ENCOUNTERED WITHIN 2 FEET OF THE PROPOSED BASIN SUBGRADE ELEVATION.
3. IF BEDROCK IS PRESENT, A GEO-TECHINCAL PROFESSIONAL SHALL INSPECT THE EXPOSED ROCK IN ORDER TO DETERMINE THE MOST APPROPRIATE COURSES OF ACTION. IN GENERAL, OVER-EXCAVATE A MINIMUM OF 2' BELOW INFILTRATION ELEVATION AND BACKFILL WITH SUITABLE ON SITE SOIL LIGHTLY TAMPED IN PLACE. THE SUITABILITY OF ONSITE SOILS IS TO BE DETERMINED BY THE OVERSEEING ENGINEER/GEOTECHNICAL PROFESSIONAL. INFILTRATION TESTING SHALL BE PERFORMED IN BACKFILLED AREAS IF THE AREA EXCEEDS 100 SF OR AS DEEMED APPROPRIATE BY THE OVERSEEING ENGINEER/GEOTECHNICAL PROFESSIONAL. ROCK REMOVAL SHOULD BE HANDLED ON A CASE-BY-CASE BASIS AND UNDER THE SUPERVISION OF A GEOTECHNICAL PROFESSIONAL. FLOATING BOULDERS AND/OR FRAGMENTED ROCKS WHICH CAN READILY BE REMOVED AND WHICH ARE DEEMED NOT TO NEGATIVELY IMPACT THE FUNCTIONALITY OF THE FACILITY MAY PROVIDE STABILITY WITHIN THE SOIL/BEDROCK INTERFACE, REDUCE THE LIKELIHOOD OF SUBSIDENCE, AND MAY BE LEFT IN PLACE.
4. IF OTHER LIMITING LAYERS, SUCH AS GROUNDWATER, OR REDOXIMORPHIC FEATURES INDICATIVE OF A SEASONALLY HIGH WATER TABLE ARE ENCOUNTERED THE GEOTECHNICAL ENGINEER, STORMWATER DESIGN ENGINEER, AND CITY ENGINEER SHALL BE NOTIFIED IMMEDIATELY IN ORDER TO DETERMINE AN APPROPRIATE COURSE OF ACTION. ADDITIONAL MEASURES AND/OR AN ALTERNATE DESIGN MAY BE REQUIRED.
5. IF FIELD VERIFIED RATES ARE LESS THAN 0.20 IN/HR OR GREATER THAN 6.0 IN/HR, THE FOLLOWING STEPS SHOULD BE TAKEN:

IF THE FIELD VERIFIED INFILTRATION RATES ARE EXCESSIVELY HIGH (>6.0 IN/HR).

1. DETERMINE THE EXTENT OF THE MATERIALS EXHIBITING THE HIGH INFILTRATION RATES THROUGH A COMBINATION OF VISUAL-MANUAL CLASSIFICATION, HAND PROBING, DENSITY TESTING, OR OTHER SUITABLE METHODS AS DETERMINED BY THE GEOTECHNICAL ENGINEER.
2. OVER EXCAVATE THE MATERIALS TO THE DEPTH WHERE THE MATERIAL TYPE CHANGES OR A MAXIMUM DEPTH OF 2 FEET, WHICHEVER IS ENCOUNTERED FIRST.
3. IN-PLACE INFILTRATION TESTING (MIN. TWO TEST PITS) OF THE NATURAL SOIL MATERIAL MUST BE PERFORMED AFTER THE UNSUITABLE MATERIAL IS EXCAVATED TO CONFIRM ACCEPTABLE INFILTRATION RATES PRIOR TO PLACEMENT OF THE SUITABLE SOIL. SOIL TESTING SHALL UTILIZE A DOUBLE RING INFILTROMETER TEST AND BE IN ACCORDANCE WITH PROCEDURES IN APPENDIX C OF THE PENNSYLVANIA STORMWATER BEST MANAGEMENT PRACTICES MANUAL.
4. IF EXCESSIVE RATES ARE ASSOCIATED WITH WEATHERED OR BROKEN ROCK, THE ROCK SURFACE SHOULD BE EXAMINED BY THE GEOTECHNICAL ENGINEER PRIOR TO REPLACEMENT OF SUITABLE MATERIAL TO EVALUATE KARST POTENTIAL.
5. REPLACE THE EXCAVATED MATERIAL WITH FINER GRAINED MATERIALS APPROVED BY THE GEOTECHNICAL ENGINEER. SUITABLE SOIL MIXTURES CAN CONSIST OF A BLEND OF ON-SITE AND/OR OFF-SITE MATERIALS AVAILABLE TO THE CONTRACTOR, AND SUBJECT TO TESTING AND APPROVAL OF THE GEOTECHNICAL ENGINEER, OR SHOULD BE CONSISTENT WITH THE INFILTRATION BASIN AMENDED SOIL SPECIFICATIONS. IN-SITU INFILTRATION TESTING (MIN. 2 TESTS) OF THE BACKFILLED MATERIAL IS REQUIRED FOR ALL BACKFILLED AREAS EXCEEDING 100 SF.
6. SUITABLE SOIL MIXTURES MAY CONSIST OF MATERIALS BLENDED BY VOLUME RATIOS AS DETERMINED BY THE GEOTECHNICAL ENGINEER.
7. MATERIALS SHOULD BE LIGHTLY TRACKED INTO PLACE IN NON-STRUCTURAL AREAS.
8. IF MATERIAL REPLACEMENT IS LOCATED OUTSIDE OF STRUCTURAL AREAS, SOIL SHOULD BE PLACED IN ACCORDANCE WITH THE RECOMMENDED METHODS DESCRIBED FOR AMENDED SOIL PLACEMENT IN THE CONSTRUCTION SEQUENCE.
9. IF MATERIAL REPLACEMENT IS REQUIRED IN STRUCTURAL AREAS (EX: BELOW GRADE SWM FACILITIES IN PAVED AREAS), MATERIAL PLACEMENT SPECIFICATIONS, INCLUDING MATERIALS TYPE, MIX RATIO, COMPACTIVE EFFORT AND REQUIRED DENSITY SHOULD BE DETERMINED BY THE GEOTECHNICAL ENGINEER.

IF THE FIELD VERIFIED INFILTRATION RATES ARE EXCESSIVELY LOW (<0.20 IN/HR).

1. DETERMINE THE EXTENT OF THE MATERIALS EXHIBITING THE LOW INFILTRATION RATES THROUGH A COMBINATION OF VISUAL-MANUAL CLASSIFICATION, HAND PROBING, DENSITY TESTING, OR OTHER SUITABLE METHODS AS DETERMINED BY THE GEOTECHNICAL ENGINEER.
2. OVER EXCAVATE THE MATERIALS TO THE DEPTH WHERE THE MATERIAL TYPE CHANGES OR A MAXIMUM DEPTH OF 2 FEET, WHICHEVER IS ENCOUNTERED FIRST. IF SUFFICIENTLY PERMEABLE SOIL IS NOT ENCOUNTERED WITHIN TWO FEET OF THE INSUFFICIENTLY PERMEABLE MATERIAL, IT IS NOT SUITABLE TO MERELY REPLACE THE UNSUITABLE MATERIAL WITH MORE PERMEABLE MATERIAL, AS THIS SIMPLY CREATES A "BATH TUB."
3. IN-PLACE INFILTRATION TESTING (MIN. 4 TEST PITS PER ACRE OF BMP) OF THE NATURAL SOIL MATERIAL MUST BE PERFORMED AFTER THE UNSUITABLE MATERIAL IS EXCAVATED TO CONFIRM ACCEPTABLE INFILTRATION RATES PRIOR TO PLACEMENT OF THE SUITABLE SOIL. SOIL TESTING SHALL UTILIZE A DOUBLE RING INFILTROMETER TEST AND BE IN ACCORDANCE WITH PROCEDURES IN APPENDIX C OF THE PENNSYLVANIA STORMWATER BEST MANAGEMENT PRACTICES MANUAL.
4. IF ROCK IS ENCOUNTERED, THE ROCK SHOULD BE REMOVED TO A MINIMUM DEPTH OF 2 FEET BELOW THE BOTTOM OF BASIN AND SHOULD BE EXAMINED BY THE GEOTECHNICAL ENGINEER PRIOR TO REPLACEMENT OF SUITABLE MATERIAL TO EVALUATE KARST POTENTIAL AND ENSURE THE ROCK HAS SUFFICIENT INFILTRATION ABILITY TO MEET THE MINIMUM CRITERIA (>0.20IN/HR).
5. REPLACE THE EXCAVATED MATERIAL WITH MORE COARSELY GRAINED MATERIALS APPROVED BY THE GEOTECHNICAL ENGINEER. SUITABLE SOIL MIXTURES CAN CONSIST OF A BLEND OF ON-SITE AND/OR OFFSITE MATERIALS AVAILABLE TO THE CONTRACTOR, AND SUBJECT TO TESTING AND APPROVAL OF THE GEOTECHNICAL ENGINEER OR SHOULD BE CONSISTENT WITH THE INFILTRATION BASIN AMENDED SOIL SPECIFICATIONS.
6. SUITABLE SOIL MIXTURES MAY CONSIST OF MATERIALS BLENDED BY VOLUME RATIOS AS DETERMINED BY THE GEOTECHNICAL ENGINEER.
7. MATERIALS SHOULD BE LIGHTLY TRACKED INTO PLACE IN NON-STRUCTURAL AREAS.
8. IF MATERIAL REPLACEMENT IS LOCATED OUTSIDE OF STRUCTURAL AREAS, SOIL SHOULD BE PLACED IN ACCORDANCE WITH THE RECOMMENDED METHODS DESCRIBED FOR AMENDED SOIL PLACEMENT IN THE CONSTRUCTION SEQUENCE.
9. IF MATERIAL REPLACEMENT IS REQUIRED IN STRUCTURAL AREAS (EX: BELOW GRADE SWM FACILITIES IN PAVED AREAS), MATERIAL PLACEMENT SPECIFICATIONS, INCLUDING MATERIALS TYPE, MIX RATIO, COMPACTIVE EFFORT AND REQUIRED DENSITY SHOULD BE DETERMINED BY THE GEOTECHNICAL ENGINEER.
10. IF, THROUGH REMEDIATION, EXCESSIVELY LOW INFILTRATION RATES CANNOT BE MADE TO MATCH THE MINIMUM ACCEPTABLE INFILTRATION RATE AT THE LOCATION OF THE PROPOSED FACILITY(AS DETERMINED BY THE REQUIRED INFILTRATION TESTS DURING CONSTRUCTION), WORK MUST CEASE AND THE APPLICANT MUST SUBMIT FOR REVIEW AND APPROVAL A REVISED COURSE OF ACTION.

B 42 INFILTRATION SCM-1 SYSTEM CONSTRUCTION NOTES

NO SCALE

REVISIONS PER:		DATE:	BY:
1.	COL/LCCD COMMENTS	3/28/25	EWB
2.	-	-	-
3.	-	-	-
4.	-	-	-
5.	-	-	-

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — ELIZABETH WERNER BALDWIN — ENGINEER — PE080729

PENNSYLVANIA — HIGH POINT CASE — REGISTERED LANDSCAPE ARCHITECT

STORMWATER MANAGEMENT PLAN

SUBJECT:

STORMWATER DETAILS

MCCASKEY HIGH SCHOOL
MCCASKEY HIGH SCHOOL STADIUM RENOVATIONS
CITY OF LANCASTER - LANCASTER COUNTY - PENNSYLVANIA

CLIENT:

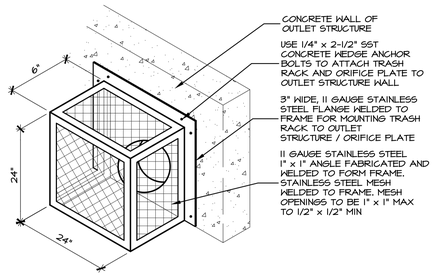
MM ARCHITECTS
214 NORTH DUKE STREET
LANCASTER, PA 17602
(717) 393-3211

MANAGER:	HDC	DATE:	February 6, 2025
DESIGNER:	EWB	PROJECT NO.	AZ202-015
DRAWN BY:	JMT	SCALE:	AS SHOWN

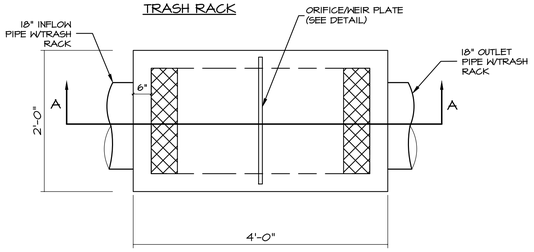
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42 OF 53

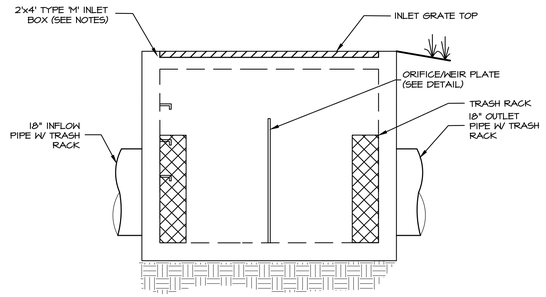
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TRASH RACK



PLAN

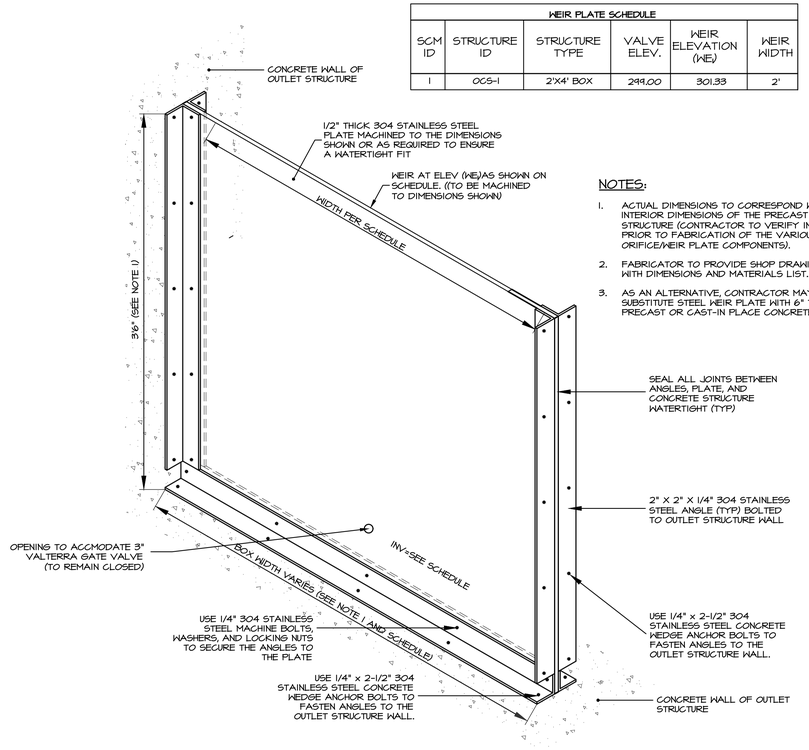


SECTION A-A

NOTES:

1. ALL CONNECTIONS TO OUTLET STRUCTURE MUST BE WATERTIGHT. WEEP HOLES ARE NOT TO BE PROVIDED IN CONTROL STRUCTURES.
2. CONTRACTOR SHALL VERIFY BOX SIZING BASED ON PIPE SIZES & ALIGNMENT PRIOR TO ORDERING STRUCTURES.
3. STRUCTURES SHALL BE PRE-CAST.
4. DRAINAGE STRUCTURES THAT ARE FIVE FOOT OR GREATER IN DEPTH SHALL HAVE POLYPROPYLENE ENCASED MANHOLE STEPS INSTALLED ARE PER CURRENT STANDARDS.
5. MATERIAL AND CONSTRUCTION SHALL COMPLY WITH PENN D.O.T. PUB. 408.
6. CLASS AA CONCRETE 4,000 PSI AT 28 DAYS.
7. REINFORCEMENT - ASTM A185/A615 GRADE 60, MIN. 1 1/2" COVER.

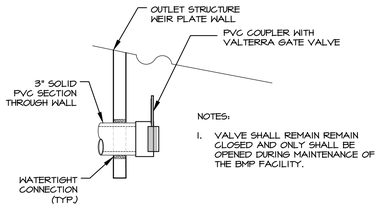
OUTLET CONTROL STRUCTURE SCHEDULE									
BASIN NO.	STRUCTURE ID	INFLOW PIPE		WEIR		GRATE INLET		OUTLET PIPE	
		SIZE (IN)	INVERT ELEV.	SIZE (IN)	ELEV.	TYPE	TOP OF GRATE ELEV.	SIZE (IN)	INVERT ELEV.
SCM-1	OCS-1	18"	299.00	SEE DETAIL		GRATE	303.00	18"	299.00



WEIR PLATE SCHEDULE					
SCM ID	STRUCTURE ID	STRUCTURE TYPE	VALVE ELEV.	WEIR ELEVATION (WE)	WEIR WIDTH
1	OCS-1	2'X4' BOX	299.00	301.33	2'

NOTES:

1. ACTUAL DIMENSIONS TO CORRESPOND WITH THE INTERIOR DIMENSIONS OF THE PRECAST OUTLET STRUCTURE (CONTRACTOR TO VERIFY IN FIELD PRIOR TO FABRICATION OF THE VARIOUS ORIFICE/WEIR PLATE COMPONENTS).
2. FABRICATOR TO PROVIDE SHOP DRAWINGS WITH DIMENSIONS AND MATERIALS LIST.
3. AS AN ALTERNATIVE, CONTRACTOR MAY SUBSTITUTE STEEL WEIR PLATE WITH 6" THICK PRECAST OR CAST-IN PLACE CONCRETE WEIR.



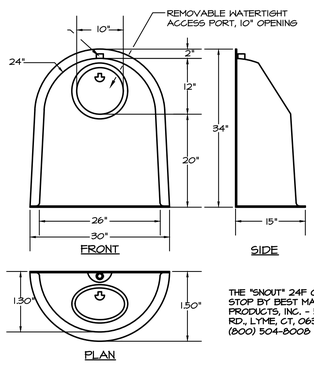
NOTES:

1. VALVE SHALL REMAIN REMAIN CLOSED AND ONLY SHALL BE OPENED DURING MAINTENANCE OF THE BMP FACILITY.

C / 43 GATE VALVE CONNECTION DETAIL
NO SCALE

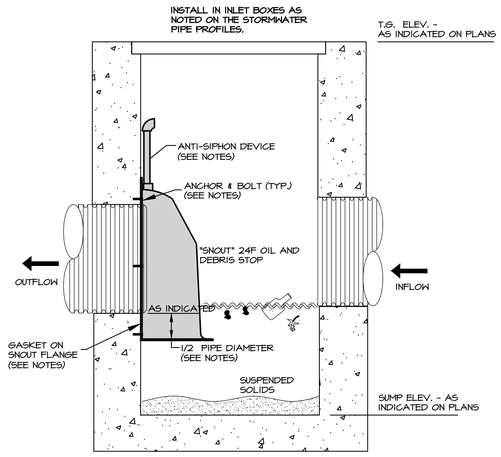
A / 43 OCS-1 : BASIN OUTLET STRUCTURE W/ ORIFICE/WEIR PLATE
NO SCALE

B / 43 ORIFICE/WEIR PLATE W/ BACKUP GATE VALVE FOR INFILTRATION BEDS
NO SCALE



PLAN

THE "SNOUT" 24F OIL & DEBRIS STOP BY BEST MANAGEMENT PRODUCTS, INC. - 53 MT. ARCHER RD., LYME, CT, 06371 (800) 504-8008



INSTALLATION DIAGRAM

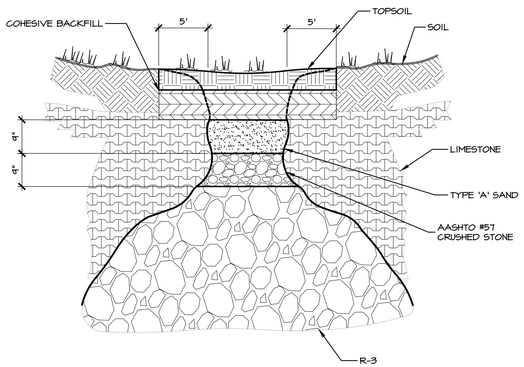
INSTALL ON INLETS: (1 I-3, MH 1-5, 1 I-7, 1 I-9, 1 I-11, 1 I-13, 1 I-14, 1 I-16)

NOTE: THIS DETAIL IS FOR GENERAL INFORMATION ONLY. CONTRACTOR SHALL VERIFY ALL SIZES AND SNOUTS WITH THE PROFILES IN THIS PLAN SET, AND MANUFACTURER.

NOTES:

1. ALL CONNECTIONS TO OUTLET STRUCTURE MUST BE WATERTIGHT. WEEP HOLES ARE NOT TO BE PROVIDED IN CONTROL STRUCTURES.
2. CONTRACTOR SHALL VERIFY BOX SIZING BASED ON PIPE SIZES & ALIGNMENT PRIOR TO ORDERING STRUCTURES.
3. STRUCTURES SHALL BE PRE-CAST.
4. DRAINAGE STRUCTURES THAT ARE FIVE FOOT OR GREATER IN DEPTH SHALL HAVE POLYPROPYLENE ENCASED MANHOLE STEPS INSTALLED ARE PER CURRENT STANDARDS.
5. MATERIAL AND CONSTRUCTION SHALL COMPLY WITH PENN D.O.T. PUB. 408.
6. CLASS AA CONCRETE 4,000 PSI AT 28 DAYS.
7. REINFORCEMENT - ASTM A185/A615 GRADE 60, MIN. 1 1/2" COVER.

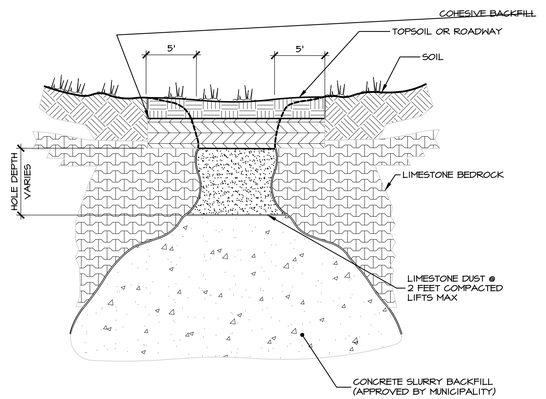
D / 43 WATER QUALITY INLET - SNOUT
NO SCALE



NOTES:

1. STRIP ALL SOFT OR UNSUITABLE MATERIALS EXTENDING HORIZONTALLY 5 FEET BEYOND THE PERIMETER OF THE EXISTING SINKHOLE TO A DEPTH OF COMPETENT BEDROCK OR TO 3 FEET BELOW PLAN SUBGRADE, WHICHEVER IS LESS.
2. FILL SINKHOLE WITH R-3 ROCK TO 18 INCHES BELOW THE LEVEL OF THE STRIPPED SURFACE. USE LARGER ROCK IF NECESSARY TO FILL VOIDS. FILL THE REMAINING 18 INCHES WITH AASHTO #57 CRUSHED STONE AND 9 INCHES OF THE TYPE 'A' SAND AS SHOWN. COMPACT TO AN UNYIELDING CONDITION.
3. FILL AREA WITH CONTROLLED MATERIAL TO PLAN SUBGRADE, AND REPLACE TOPSOIL.
4. HEAVY CONSTRUCTION EQUIPMENT SHALL NOT TRAVERSE THE CORRECTED AREA.
5. THE MUNICIPALITY AND/OR MUNICIPALITY ENGINEER SHALL BE CONTACTED PRIOR TO ANY SINKHOLE REPAIR.

E / 43 'ROCK FILL' SINKHOLE REPAIR DETAIL
NO SCALE



MUNICIPALITY SINKHOLE REPAIR NOTES:

1. ANY SINKHOLE ENCOUNTERED PRECEDING, OR DURING SITE DEVELOPMENT ON ANY AREA THAT IS INTENDED TO BE OFFERED TO THE MUNICIPALITY FOR DEDICATION (BE IT FOR SANITARY SEWER EASEMENT, STREET RIGHT-OF-WAY, STORM SEWER EASEMENT, OR ANY OTHER PUBLIC USE) SHALL BE REPAIRED USING THE FOLLOWING METHODS:
   A. REMOVE ALL UNSUITABLE SOIL IN THE LOCATION OF THE SINKHOLE IN ORDER TO LOCATED AN OPENING (SINKHOLE "THROAT") IN THE BEDROCK, IF POSSIBLE.
   B. "THROAT" SHOULD BE FLUSHED WITH WATER TO CLEAR, OPENING, TO BE IMMEDIATELY FILLED WITH A FLOWABLE FILL OR CONCRETE SLURRY UNTIL MATERIAL BACKS UP IN TO EXCAVATED HOLE. ALLOW CONCRETE TO SETUP FOR TWENTY-FOUR HOURS.
   C. FILL HOLE WITH LIMESTONE "DUST", COMPACTED IN LIFTS OF TWO FEET MAXIMUM DEPTH.
   D. REPLACE SUBSOIL IMMEDIATELY BELOW SURFACE AND RESTORE SURFACE AS PER INTENDED USE, I.E., GRASSED AREA, ROADWAY, DRIVEWAY, ETC.
2. THE MUNICIPALITY AND/OR MUNICIPAL ENGINEER SHALL BE CONTACTED PRIOR TO ANY SINKHOLE REPAIR.

F / 43 'CONCRETE FILL' SINKHOLE REPAIR DETAIL
NO SCALE

REVISIONS PER:	DATE:	BY:
1. COL/LCCD COMMENTS	3/28/25	EWB
2. -	-	-
3. -	-	-
4. -	-	-
5. -	-	-

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ELIZABETH WERNER BALDWIN ENGINEER 069705 PENNSYLVANIA

PENNSYLVANIA JOHN D. PARTYKA REGISTERED LANDSCAPE ARCHITECT

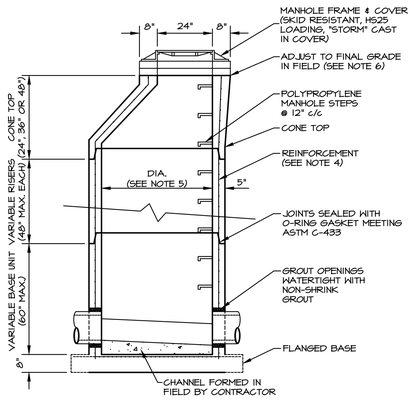
STORMWATER MANAGEMENT PLAN

SUBJECT:
STORMWATER DETAILS
MCCASKEY HIGH SCHOOL
MCCASKEY HIGH SCHOOL STADIUM RENOVATIONS
CITY OF LANCASTER - LANCASTER COUNTY - PENNSYLVANIA

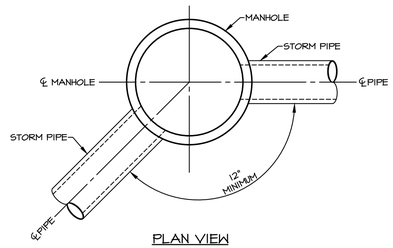
CLIENT:
MM ARCHITECTS
214 NORTH DUKE STREET
LANCASTER, PA 17602
(717) 393-3211

MANAGER:	HDC	DATE:	January 30, 2025
DESIGNER:	EWB	PROJECT NO.	AZ202-015
DRAWN BY:	JMT	SCALE:	AS SHOWN

DRAWING NO.
43 OF 53



SECTION VIEW



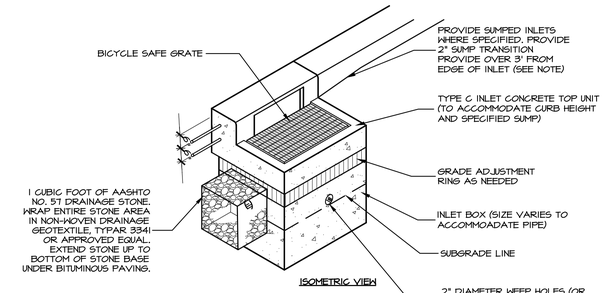
PLAN VIEW

NOTES:

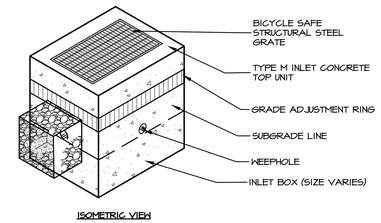
1. MANHOLE BASED UPON TERRE HILL CONCRETE PRODUCTS, TERRE HILL, PA (800-242-1509). USE ONLY PADOT MANHOLES CONSTRUCTED IN ACCORDANCE WITH PADOT PUBLICATION 72, RC-34 STANDARD, WHERE PERFORMING WORK IN PADOT RIGHTS-OF-WAY.
2. ALL PRECAST MANHOLES SHALL MEET THE REQUIREMENTS OF ASTM-C478.
3. ALL CONCRETE SHALL CONFORM TO PADOT PUBLICATION 408, SECTION 714, CLASS AA.
4. PROVIDE REINFORCEMENT IN ACCORDANCE WITH PADOT PUBLICATION 72, RC-34 STANDARD.
5. THE DIAMETER OF THE MANHOLES PROVIDED SHALL BE BASED UPON PROVIDING A MINIMUM OF 12-INCHES OF HORIZONTAL SEPARATION BETWEEN OPENINGS LOCATED AT THE SAME DEPTH. PIPES NOT LOCATED AT THE SAME DEPTH MUST BE LOCATED VERTICALLY AT LEAST ONE TIMES THE MAXIMUM OPENING DIAMETER APART WHERE THE HORIZONTAL SEPARATION IS NOT PROVIDED. IN ALL CASES, THE MAXIMUM PIPE SIZE AND OPENING IN PRECAST MANHOLES SHALL BE AS FOLLOWS:
6. ADJUST MANHOLE TO FINAL GRADE WITH PRECAST CONCRETE GRADING RINGS. MAXIMUM ADJUSTMENT IS 12-INCHES.
7. PROVIDE GRADE ADJUSTMENT RISERS OF ADJUSTABLE INSERTS IN ACCORDANCE WITH PADOT PUBLICATION 72, RC-34 STANDARD. LOCATE TOP OF FRAME OF ADJUSTMENT RISER 1/8" BELOW THE TOP OF THE ROADWAY SURFACE.
8. FRAME AND/OR PRECAST CONCRETE GRADE RINGS TO BE ATTACHED RIGIDLY TO THE TOP OF THE MANHOLE WITH THREADED STUDS IN ACCORDANCE WITH PADOT PUBLICATION 72, RC-34 STANDARD. THE BASE OF THE FRAME AND/OR PRECAST CONCRETE GRADE RINGS TO BE SET IN A BED OF CEMENT MORTAR.
9. SEAL ALL JOINTS BETWEEN MANHOLE SECTIONS WITH "RAMNEK" OR EQUAL SEALANT.
10. ALL PROPOSED AND EXISTING ROOF LEADER DRAINAGE CONNECTIONS TO BE CORE-BORED INTO THE MANHOLE AT THE REQUIRED ELEVATION AND LOCATION AND ATTACHED WITH A WATERTIGHT CONNECTION.
11. CONTRACTOR SHALL VERIFY MANHOLE SIZING BASED ON PIPE SIZES, MATERIAL, AND ALIGNMENT PRIOR TO ORDERING PRECAST STRUCTURES.
12. THIS STANDARD DEPICTS THE SHAPE AND DIMENSIONS REQUIRED FOR UNIFORMITY AND COMPATIBILITY. IT IS NOT INTENDED TO SHOW THE DETAILS REQUIRED FOR MANUFACTURING AND HANDLING. ONLY THOSE ITEMS WHICH ARE SUPPLIED BY AN APPROVED MANUFACTURER AS LISTED IN PA BULLETIN NO. 15 WILL BE PERMITTED.

A 44 PRECAST STORM SEWER MANHOLE

NO SCALE



PA DOT TYPE 'C' INLET



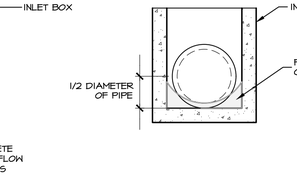
PA DOT TYPE 'M' INLET

INLET NOTES:

1. MATERIAL AND CONSTRUCTION BASED UPON PENNDOT STANDARDS AND SPECIFICATIONS. ALL CONSTRUCTION SHALL BE IN GENERAL ACCORDANCE WITH PA DOT PUBLICATION 408, SECTION 605 & APPLICABLE PENNDOT STANDARDS FOR ROADWAY CONSTRUCTION PERTAINING TO INLET STRUCTURES.
2. THIS DETAIL DEPICTS THE SHAPE AND DIMENSIONS REQUIRED FOR UNIFORMITY AND COMPATIBILITY. IT IS NOT INTENDED TO SHOW THE DETAILS REQUIRED FOR MANUFACTURING AND HANDLING. ONLY THOSE ITEMS WHICH ARE SUPPLIED BY AN APPROVED MANUFACTURER AS LISTED IN PA BULLETIN NO 15 WILL BE PERMITTED.
3. INLETS WITHIN THE PENNDOT RIGHT OF WAY SHALL BE IN ACCORDANCE WITH PENNDOT ROADWAY CONSTRUCTION STANDARDS, LATEST REVISION, AND AS PER APPROVED PENNDOT HIGHWAY OCCUPANCY PERMIT PLANS.
4. INLETS WITHIN A MUNICIPAL ROADWAY/RIGHT OF WAY SHALL BE APPROVED BY THE MUNICIPALITY PRIOR TO CONSTRUCTION.
5. CONTRACTOR SHALL VERIFY INLET BOX SIZING BASED ON PIPE SIZES, MATERIAL AND ALIGNMENT PRIOR TO ORDERING PRE CAST STRUCTURES.
6. CONCRETE TOP UNITS WHICH SEAT THE GRATE DIRECTLY WITHIN THE UNIT SHALL UTILIZE 1-1/4" X 1-1/4" ANGLES EMBEDDED IN THE CONCRETE AS A BEARING AREA FOR THE GRATE.
7. WHENEVER AN INLET IS REQUIRED WITHIN A MOUNTABLE CURB SECTION, A TYPE M INLET WILL BE LOCATED ADJACENT TO THE BACK EDGE OF THE CURB AND WILL BE FLUSH WITH THE PAVEMENT SURFACE. SEE PA DOT RC-65 FOR INSTALLATION DETAILS.
8. THE SELECTION OF COMPONENTS TO ACHIEVE A SPECIFIED INLET TYPE IS THE CONTRACTOR'S RESPONSIBILITY.
9. PIPES SHALL BE LOCATED AS REQUIRED.
10. WEEP HOLES SHALL BE INSTALLED IN INLET BOXES WITHIN PAVED AREAS TO PERMIT DRAINAGE OF THE PAVEMENT SUBBASE, UNLESS OTHERWISE APPROVED.
11. USE PRE CAST CONCRETE GRADE ADJUSTMENT RINGS FOR FINAL GRADE. BRICKS, BLOCKS, MORTAR, ETC. ARE NOT PERMITTED AS GRADE ADJUSTMENTS.
12. INLET BOX SHALL BE PRE CAST CONCRETE, UNLESS OTHERWISE SPECIFIED OR APPROVED.
13. ALL ON-SITE INLETS SHALL HAVE TOP UNITS TO MATCH CURB REVEAL AND SPECIFIED SUMP.
14. INLETS THAT ARE FIVE FOOT OR GREATER IN DEPTH SHALL HAVE POLYPROPYLENE ENGASED MANHOLE STEPS INSTALLED.
15. ALL DRAINAGE STRUCTURES SHALL HAVE POURED-IN-PLACE CONCRETE CHANNEL BOTTOM, UNLESS OTHERWISE NOTED (SUCH AS SNOUTS, WATER QUALITY INLETS, DESIGNATED SEDIMENT STORAGE, ETC.) ON THE PLANS.
16. PROVIDE PRECAST OPENING IN THE INLET BOX FOR ALL ROOF LEADER DRAINAGE CONNECTIONS, UNLESS OTHERWISE APPROVED. PROVIDE OPENINGS TO THE INLET BOX AT THE REQUIRED ELEVATIONS AND LOCATION. ALL CONNECTIONS SHALL BE WATERTIGHT.
17. PROVIDE PRE-CAST OPENINGS IN THE INLET BOX TO ACCOMMODATE ROADWAY, PARKING, AND BUILDING UNDERDRAINS WHERE SPECIFIED ON THE PLANS.
18. A 2" SUMP ON TYPE 'C' INLETS SHALL BE PROVIDED WHERE NOTED ON THE STORMWATER PIPE PROFILES. THE 2" SUMP TRANSITION ALONG CURB GUTTER LINE SHALL BE ADJUSTED ACCORDINGLY FOR FIELD CONDITIONS, ADA REQUIREMENTS, AND/OR AS SPECIFIED/DETAILED ON THE PLANS.
19. FINAL INLET TOP OF GRATE ELEVATION SHALL BE ADJUSTED TO ACCOUNT FOR SPECIFIED ROAD GRADE.
20. GROUT OPENINGS AROUND PIPE CONNECTIONS TO PROVIDE A WATERTIGHT JOINT. USE NON-SHRINK GROUT ON INSIDE & OUTSIDE OF STRUCTURE.
21. ALL JOINTS ADJACENT TO BITUMINOUS PAVING SHALL BE SEALED WITH P-664-22.
22. PROVIDE 2'X6' INLET BOXES, DOUBLE 2'X4' BOXES, ETC. WHERE NOTED ON THE PLAN.
23. CONSULT THE PLANS FOR ANY SPECIFIC SUMP REQUIREMENTS FOR TYPE 'M' INLETS LOCATED IN A SAG CONDITION.

E 44 PA DOT TYPE STORMWATER INLETS (TYPE 'C' & 'M')

NO SCALE

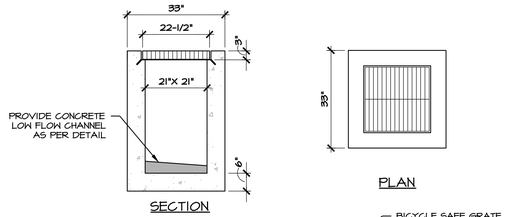


NOTES:

1. FORMED FLOW CHANNEL TO HAVE SEMICIRCULAR GEOMETRY AND BE CONSTRUCTED TO PROVIDE SELF CLEANING OF INLET.
2. CONTRACTOR SHALL PROVIDE A SMOOTH, UNIFORM ELEVATION CHANGE FROM THE INVERT IN TO THE INVERT OUT ALONG THE FLOW CHANNEL FOR ALL STRUCTURES, IN ACCORDANCE WITH THE ELEVATIONS AS IDENTIFIED ON THE STORM WATER PROFILES SHEETS.
3. FLOW CHANNEL TO BE CONSTRUCTED WITH CONCRETE (3000 PSI) OR OTHER SUITABLE, COUNTY APPROVED MATERIAL.

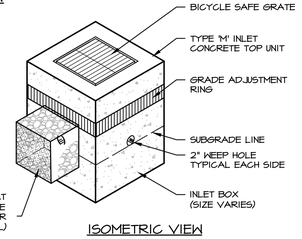
B 44 CATCH BASIN FLOW CHANNEL

NO SCALE



NOTES:

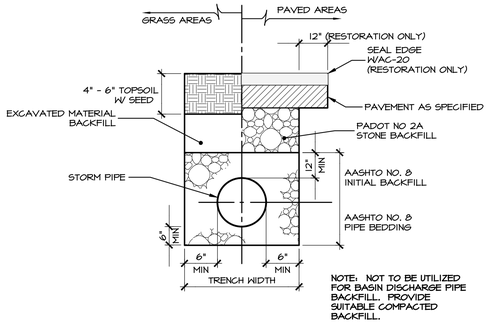
1. REFER TO "PADOT TYPE STORMWATER INLET" DETAIL FOR STANDARD INLET NOTES.
2. ALL GRATES TO BE BICYCLE SAFE.
3. USE RISER SECTIONS AND PRECAST GRADE RINGS AS REQUIRED TO PROVIDE INDICATED INVERT AND TOP OF GRATE ELEVATIONS.
4. PROVIDE PRE-CAST OPENINGS TO ACCOMMODATE UNDERDRAIN WHERE SPECIFIED.



ISOMETRIC VIEW

C 44 2' X 2' PRECAST INLET

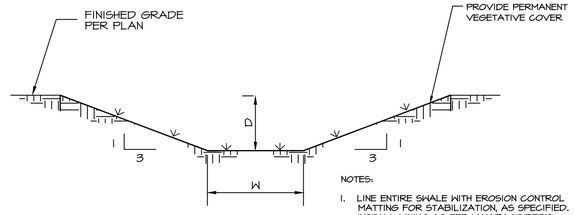
NO SCALE



NOTE: NOT TO BE UTILIZED FOR BASIN DISCHARGE PIPE BACKFILL. PROVIDE SUITABLE COMPACTED BACKFILL.

D 44 STORM PIPE TRENCH DETAIL

NO SCALE



CROSS SECTION

NOTES:

1. LINE ENTIRE SWALE WITH EROSION CONTROL MATTING FOR STABILIZATION, AS SPECIFIED. INSTALL LINING AS PER MANUFACTURER'S SPECIFICATIONS.
2. SWALE SIZE INDICATED IN SCHEDULE REPRESENTS MINIMUM SIZE. SEE APPROVED GRADING PLAN.

SWALE NO	WIDTH (W)	DEPTH (D)	SLOPE	LINING*
1	8	2	6%	GRASS
2	3	1	6%	GRASS

* OR APPROVED EQUAL

F 44 TYPICAL TRAPEZOIDAL SWALE & SCHEDULE

NO SCALE

REVISIONS PER:		DATE:	BY:
1.	COL/LCCD COMMENTS	3/28/25	EWB
2.	-	-	-
3.	-	-	-
4.	-	-	-
5.	-	-	-

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ELIZABETH WERNER BALDWIN ENGINEER 082107 PENNSYLVANIA

PENNSYLVANIA REGISTERED LANDSCAPE ARCHITECT

STORMWATER MANAGEMENT PLAN

SUBJECT:

STORMWATER DETAILS

MCCASKEY HIGH SCHOOL

MCCASKEY HIGH SCHOOL STADIUM RENOVATIONS

CITY OF LANCASTER - LANCASTER COUNTY - PENNSYLVANIA

CLIENT:

MM ARCHITECTS

214 NORTH DUKE STREET

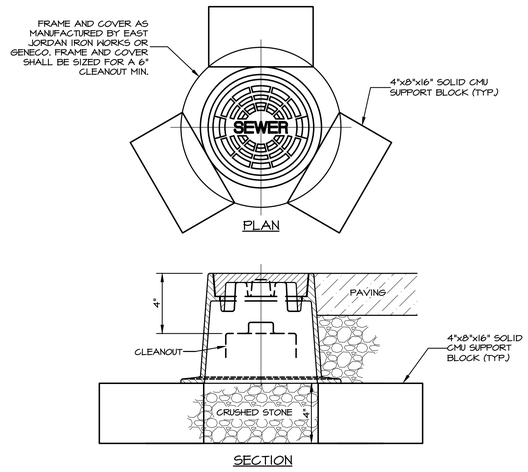
LANCASTER, PA 17602

(717) 393-3211

MANAGER:	HDC	DATE:	January 30, 2025
DESIGNER:	EWB	PROJECT NO.	AZ202-015
DRAWN BY:	JMT	SCALE:	AS SHOWN

DRAWING NO.

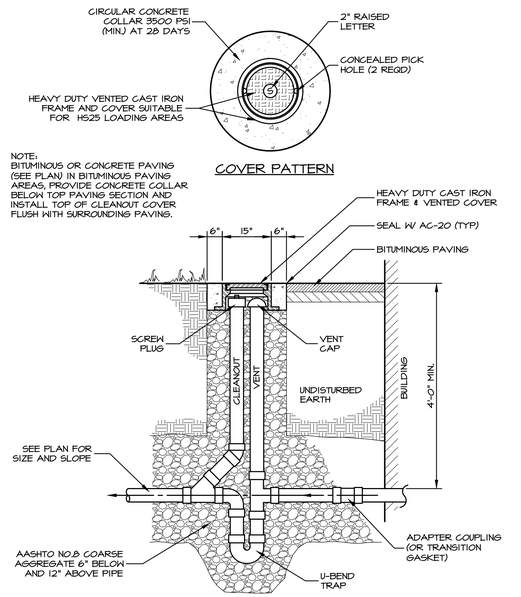
44 OF 53



A/45 CLEANOUT FRAME AND COVER IN PAVED AREA

NO SCALE

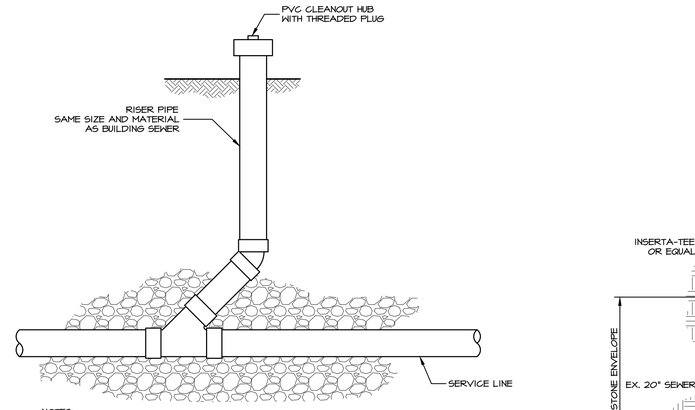
SAN-206



C/45 TRAP AND VENT DETAIL

NO SCALE

SAN-207



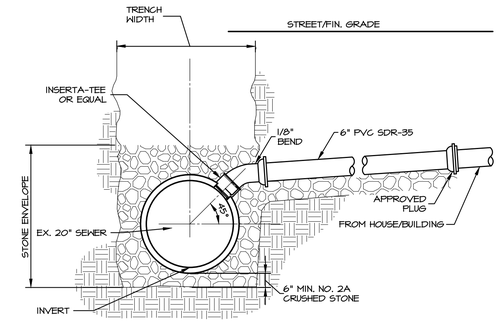
NOTES:

1. CLEANOUTS SHALL BE INSTALLED ON ALL GRAVITY SERVICE LINE AND LATERAL BENDS AND SHALL BE A MAXIMUM OF 75' APART ON STRAIGHT RUNS.
2. TOPS OF CLEANOUTS SHALL BE SET 3"-6" ABOVE GRADE UNLESS OTHERWISE DIRECTED BY THE AUTHORITY.

E/45 NEW CLEANOUT IN LAWN AREAS

NO SCALE

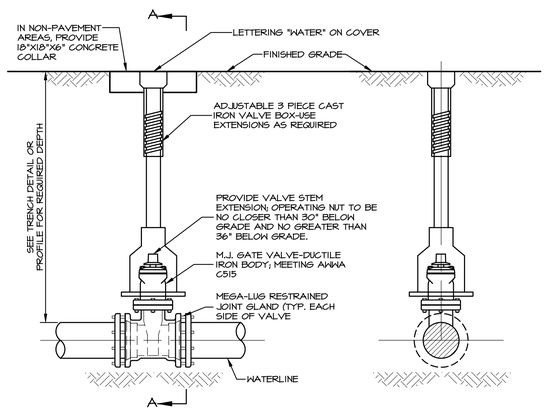
SAN-212



G/45 STANDARD LATERAL CONNECTION

NO SCALE

SAN-300



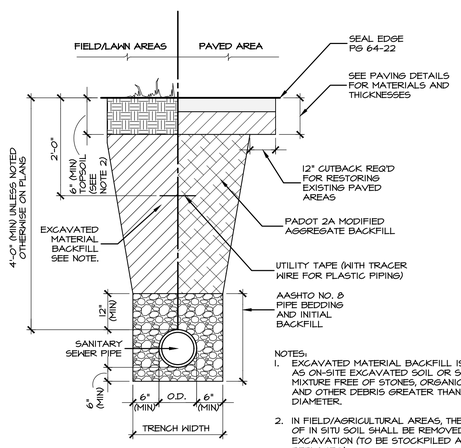
NOTES:

1. IF EXTENSIONS ARE NECESSARY CONTRACTOR SHALL SET "PLUMB" AND ALIGN PROPERLY FOR ACCESS TO OPERATING NUT.
2. VALVES SHALL OPEN LEFT AND RIGHT CLOSE UNLESS OTHERWISE SPECIFIED.
3. GATE VALVES SHALL BE USED ON WATERLINES 12 INCHES AND SMALLER.

B/45 GATE VALVE AND VALVE BOX

NO SCALE

VAL-101



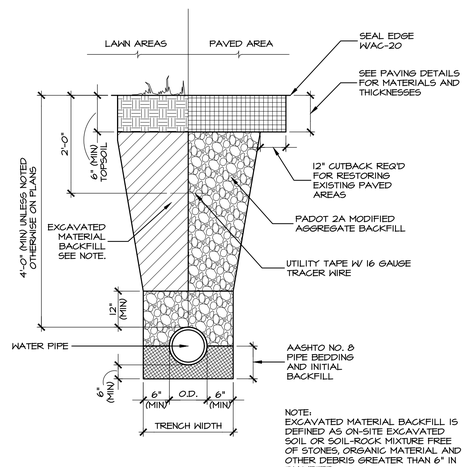
NOTES:

1. EXCAVATED MATERIAL BACKFILL IS DEFINED AS ON-SITE EXCAVATED SOIL OR SOIL-ROCK MIXTURE FREE OF STONES, ORGANIC MATERIAL AND OTHER DEBRIS GREATER THAN 6" IN DIAMETER.
2. IN FIELD/AGRICULTURAL AREAS, THE TOP 18" OF IN SITU SOIL SHALL BE REMOVED DURING EXCAVATION (TO BE STOCKPILED AND REPLACED).

D/45 GRAVITY SANITARY SEWER PIPE INSTALLATION

NO SCALE

GIV-214



NOTE:
EXCAVATED MATERIAL BACKFILL IS DEFINED AS ON-SITE EXCAVATED SOIL OR SOIL-ROCK MIXTURE FREE OF STONES, ORGANIC MATERIAL AND OTHER DEBRIS GREATER THAN 6" IN DIAMETER.

F/45 WATER PIPE INSTALLATION

NO SCALE

GIV-215

REVISIONS PER:	DATE:	BY:
1. COL/LCCD COMMENTS	3/28/25	EWB
2. -	-	-
3. -	-	-
4. -	-	-
5. -	-	-

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — ELIZABETH WERNER BALDWIN — PENNSYLVANIA

PENNSYLVANIA — REGISTERED LANDSCAPE ARCHITECT — REGISTRATION NUMBER RA-015

STORMWATER MANAGEMENT PLAN

SUBJECT:

UTILITY DETAILS

MCCASKEY HIGH SCHOOL

MCCASKEY HIGH SCHOOL STADIUM RENOVATIONS

CITY OF LANCASTER - LANCASTER COUNTY - PENNSYLVANIA

CLIENT:

MM ARCHITECTS

214 NORTH DUKE STREET

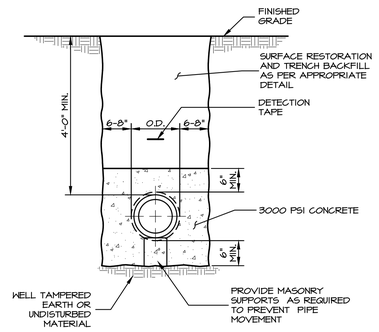
LANCASTER, PA 17602

(717) 393-3211

MANAGER:	HDC	DATE:	January 30, 2025
DESIGNER:	EWB	PROJECT NO.	AZ202-015
DRAWN BY:	JMT	SCALE:	AS SHOWN

DRAWING NO.

45 OF 53



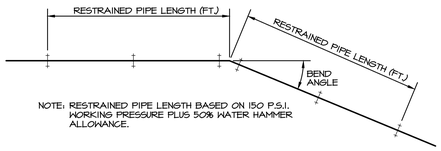
NOTES:

1. CONCRETE ENCASEMENT TO BE USED WHERE MINIMUM CLEARANCE CANNOT BE OBTAINED BETWEEN WATER LINE AND SANITARY SEWERS AND STORM SEWER. ENCASEMENT SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER IN THE FIELD.
2. THE CONTRACTOR SHALL BE RESPONSIBLE TO PREVENT FLOATATION OF THE PIPE WHEN CONCRETE IS POURED.

A/46 CONCRETE ENCASEMENT

NO SCALE

CIV-305



NOTE: RESTRAINED PIPE LENGTH BASED ON 150 P.S.I. WORKING PRESSURE PLUS 50% WATER HAMMER ALLOWANCE.

HORIZONTAL RESTRAINED PIPE LENGTH SCHEDULE (PVC PIPE)				
PIPE DIAMETER	HORIZONTAL ELBOW DEFLECTION ANGLE			
	90°	45°	22 1/2°	11 1/4°
1 1/2" THRU 4"	27'	11'	6'	3'
6"	38'	15'	10'	4'
8"	49'	20'	11'	6'
10"	59'	24'	12'	7'
12"	69'	28'	14'	8'

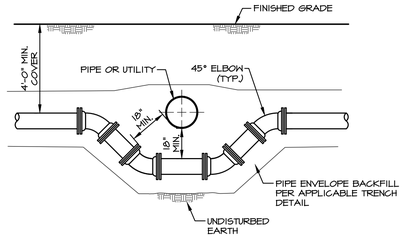
VERTICAL RESTRAINED PIPE LENGTH SCHEDULE (PVC PIPE)			
PIPE DIAMETER	VERTICAL ELBOW DEFLECTION ANGLE		
	45°	22 1/2°	11 1/4°
1 1/2" THRU 4"	28'	14'	7'
6"	34'	20'	10'
8"	52'	25'	13'
10"	62'	29'	15'
12"	73'	35'	17'

NOTE: FOR PIPE SIZES GREATER THAN 12", SUBMIT ENGINEERING CALCULATIONS TO VERIFY PROPOSED RESTRAINED PIPE LENGTHS.

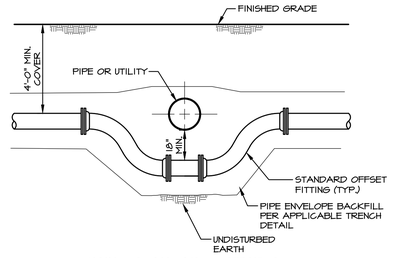
C/46 PVC RESTRAINED PIPE LENGTH SCHEDULE

NO SCALE

CIV-312



USING ELBOWS



USING STANDARD OFFSETS

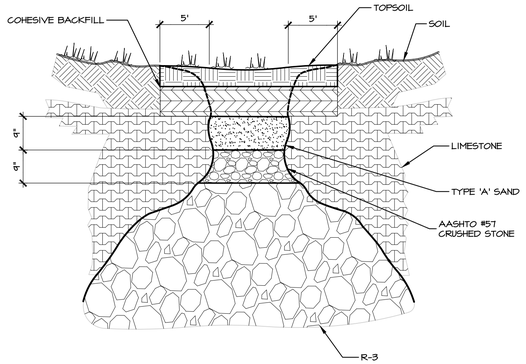
NOTES:

1. BENDS SHALL BE RESTRAINED AS SHOW ON THE RESTRAINED PIPE LENGTH SCHEDULE DETAIL OR THE THRUST BLOCKING FOR HORIZONTAL AND VERTICAL DOWNWARD THRUSTS AND THE THRUST BLOCKING FOR VERTICAL UPWARD THRUSTS DETAILS.
2. REGARDLESS OF THE THRUST RESTRAINT USED, THE FOUR BENDS OR TWO OFFSETS SHOWN ON THIS DETAIL SHALL BE RESTRAINED JOINT.

E/46 WATER LINE CROSSING PIPE OR UTILITY USING FITTINGS

NO SCALE

CIV-406

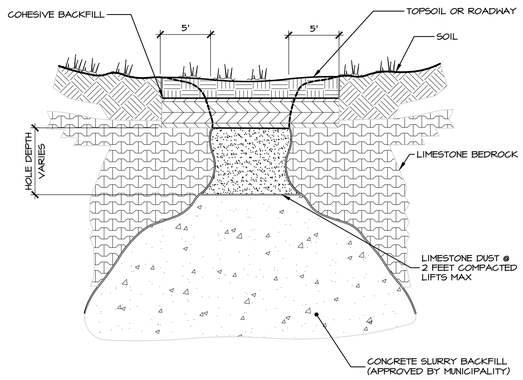


NOTES:

1. STRIP ALL SOFT OR UNSUITABLE MATERIALS EXTENDING HORIZONTALLY 5 FEET BEYOND THE PERIMETER OF THE EXISTING SINKHOLE TO A DEPTH OF COMPETENT BEDROCK OR TO 3 FEET BELOW PLAN SUBGRADE, WHICHEVER IS LESS.
2. FILL SINKHOLE WITH R-3 ROCK TO 18 INCHES BELOW THE LEVEL OF THE STRIPPED SURFACE. USE LARGER ROCK IF NECESSARY TO FILL VOIDS. FILL THE REMAINING 18 INCHES WITH AASHTO #57 CRUSHED STONE AND 9 INCHES OF THE TYPE 'A' SAND AS SHOWN. COMPACT TO AN UNYIELDING CONDITION.
3. FILL AREA WITH CONTROLLED MATERIAL TO PLAN SUBGRADE, AND REPLACE TOPSOIL.
4. HEAVY CONSTRUCTION EQUIPMENT SHALL NOT TRAVERSE THE CORRECTED AREA.
5. THE MUNICIPALITY AND/OR MUNICIPALITY ENGINEER SHALL BE CONTACTED PRIOR TO ANY SINKHOLE REPAIR.

B/46 'ROCK FILL' SINKHOLE REPAIR DETAIL

NO SCALE



MUNICIPALITY SINKHOLE REPAIR NOTES:

1. ANY SINKHOLE ENCOUNTERED PRECEDING, OR DURING SITE DEVELOPMENT ON ANY AREA THAT IS INTENDED TO BE OFFERED TO THE MUNICIPALITY FOR DEDICATION (BE IT FOR SANITARY SEWER EASEMENT, STREET RIGHT-OF-WAY, STORM SEWER EASEMENT, OR ANY OTHER PUBLIC USE) SHALL BE REPAIRED USING THE FOLLOWING METHODS:
   A. REMOVE ALL UNSUITABLE SOIL IN THE LOCATION OF THE SINKHOLE IN ORDER TO LOCATED AN OPENING (SINKHOLE "THROAT") IN THE BEDROCK, IF POSSIBLE.
   B. "THROAT" SHOULD BE FLUSHED WITH WATER TO CLEAR, OPENING, TO BE IMMEDIATELY FILLED WITH A FLOWABLE FILL OR CONCRETE SLURRY UNTIL MATERIAL BACKS UP IN TO EXCAVATED HOLE. ALLOW CONCRETE TO SETUP FOR TWENTY-FOUR HOURS.
   C. FILL HOLE WITH LIMESTONE "DUST", COMPACTED IN LIFTS OF TWO FEET MAXIMUM DEPTH.
   D. REPLACE SUBSOIL IMMEDIATELY BELOW SURFACE AND RESTORE SURFACE AS PER INTENDED USE, I.E., GRASSED AREA, ROADWAY, DRIVEWAY, ETC.
2. THE MUNICIPALITY AND/OR MUNICIPAL ENGINEER SHALL BE CONTACTED PRIOR TO ANY SINKHOLE REPAIR.

D/46 'CONCRETE FILL' SINKHOLE REPAIR DETAIL

NO SCALE

REVISIONS PER:		DATE:	BY:
1.	COL/LCCD COMMENTS	3/28/25	EWB
2.	-	-	-
3.	-	-	-
4.	-	-	-
5.	-	-	-

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ELIZABETH WERNER BALDWIN ENGINEER 082107 PENNSYLVANIA

PENNSYLVANIA COMMONWEALTH OF REGISTRATION NUMBER RA-15 REGISTERED LANDSCAPE ARCHITECT

STORMWATER MANAGEMENT PLAN

SUBJECT:

UTILITY DETAILS

MCCASKEY HIGH SCHOOL

MCCASKEY HIGH SCHOOL STADIUM RENOVATIONS

CITY OF LANCASTER - LANCASTER COUNTY - PENNSYLVANIA

CLIENT:

MM ARCHITECTS

214 NORTH DUKE STREET

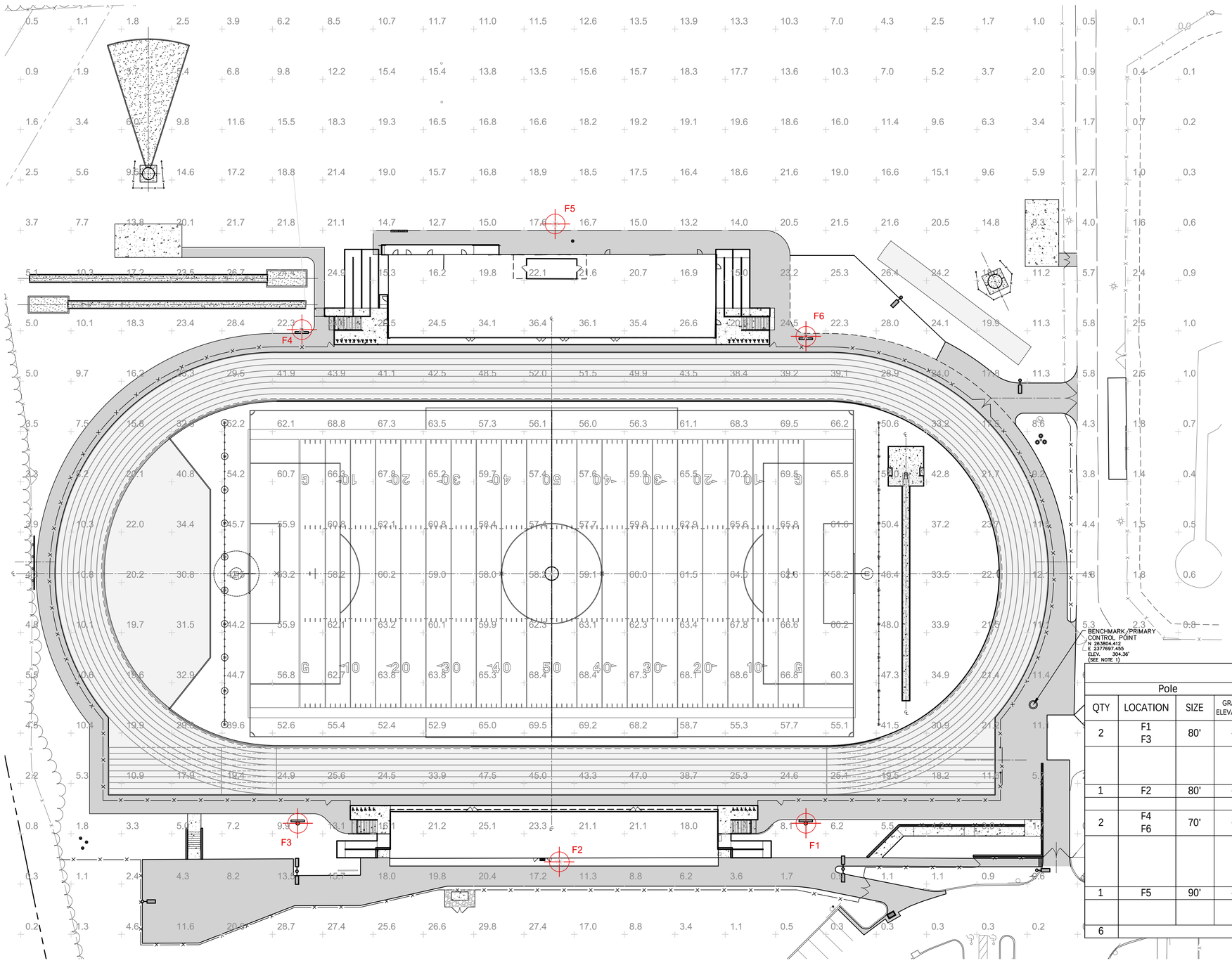
LANCASTER, PA 17602

(717) 393-3211

MANAGER:	HDC	DATE:	January 30, 2025
DESIGNER:	EWB	PROJECT NO.	AZ202-015
DRAWN BY:	JMT	SCALE:	AS SHOWN

DRAWING NO.

46 OF 53



Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Guaranteed Average	50
Scan Average	52.09
Maximum	59
Minimum	45
Avg/Min	1.16
Guaranteed Max/Min	2
Max/Min	1.31
UG (adjacent pts)	1.12
CU	0.50
No. of Points	72
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	42
Total Load	52.54 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

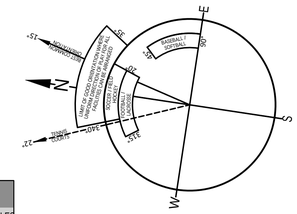
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: R 3 nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	F1 F3	80'	-	80'	TLC-LED-1500	5	5	0
				80'	TLC-RGBW	1*	0	1
				19'	TLC-BT-575	2	2	0
				19'	TLC-RGB-U	1	0	1
1	F2	80'	-	80'	TLC-LED-1500	7	7	0
				80'	TLC-RGBW	3	0	3
2	F4 F6	70'	-	70'	TLC-LED-1200	3*	0	3
				70'	TLC-LED-1500	5	5	0
				70'	TLC-RGBW	1*	0	1
				19'	TLC-BT-575	2	2	0
				19'	TLC-RGB-U	1	0	1
1	F5	90'	-	90'	TLC-LED-1200	4*	0	4
				90'	TLC-LED-1500	7	7	0
				90'	TLC-RGBW	3	0	3
6	Totals					66	42	24

*Above Grade level relative to the field
*This structure utilizes a back-to-back mounting configuration



REVISIONS PER:		DATE:	BY:
1.	COL/LCCD COMMENTS	3/28/25	EWB
2.	-	-	-
3.	-	-	-
4.	-	-	-
5.	-	-	-

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COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
ELIZABETH WERNER BALDWIN
ENGINEER
PE080726

PENNSYLVANIA
REGISTERED LANDSCAPE ARCHITECT

STORMWATER MANAGEMENT PLAN

SUBJECT:
FIELD LIGHTING PLAN
MCCASKEY HIGH SCHOOL
MCCASKEY HIGH SCHOOL STADIUM RENOVATIONS
CITY OF LANCASTER - LANCASTER COUNTY - PENNSYLVANIA

CLIENT:
MM ARCHITECTS
214 NORTH DUKE STREET
LANCASTER, PA 17602
(717) 393-3211

MANAGER:	HDC	DATE:	April 1, 2025
DESIGNER:	EWB	PROJECT NO.	AZ202-015
DRAWN BY:	JMT	SCALE:	1" = 30'

DRAWING NO.
47 OF 53

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	A1	70'	-	70'	TLC-LED-1200	2	2	0
				70'	TLC-LED-900	1/2*	1	2
				15.5'	TLC-BT-575	1	1	0
				15.5'	TLC-RGB-U	1	0	1
1	A2	70'	-	70'	TLC-LED-1200	2	2	0
				70'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
				15.5'	TLC-RGB-U	1	0	1
2	B1-B2	80'	-	80'	TLC-LED-1200	1	1	0
				80'	TLC-LED-1500	4	4	0
				15.5'	TLC-BT-575	1	1	0
				15.5'	TLC-RGB-U	1	0	1
4	Totals					26	20	6

Grid Summary

Name	Softball
Size	230'/230'/230' - basepath 60'
Spacing	20.0' x 20.0'
Height	3.0' above grade

Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES

	Infield	Outfield
Guaranteed Average	50	30
Scan Average	51.37	33.58
Maximum	58	49
Minimum	40	23
Avg/Min	1.30	1.49
Guaranteed Max/Min	2	2.5
Max/Min	1.46	2.17
UG (adjacent pts)	1.19	1.29
CU	0.64	
No. of Points	25	94
LUMINAIRE INFORMATION		
Applied Circuits	D	
No. of Luminaires	20	
Total Load	22.36 kW	

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

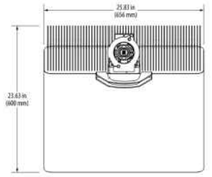
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: R 3 nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

Datasheet: TLC-LED-1200 Luminaire and Driver





Luminaire Data

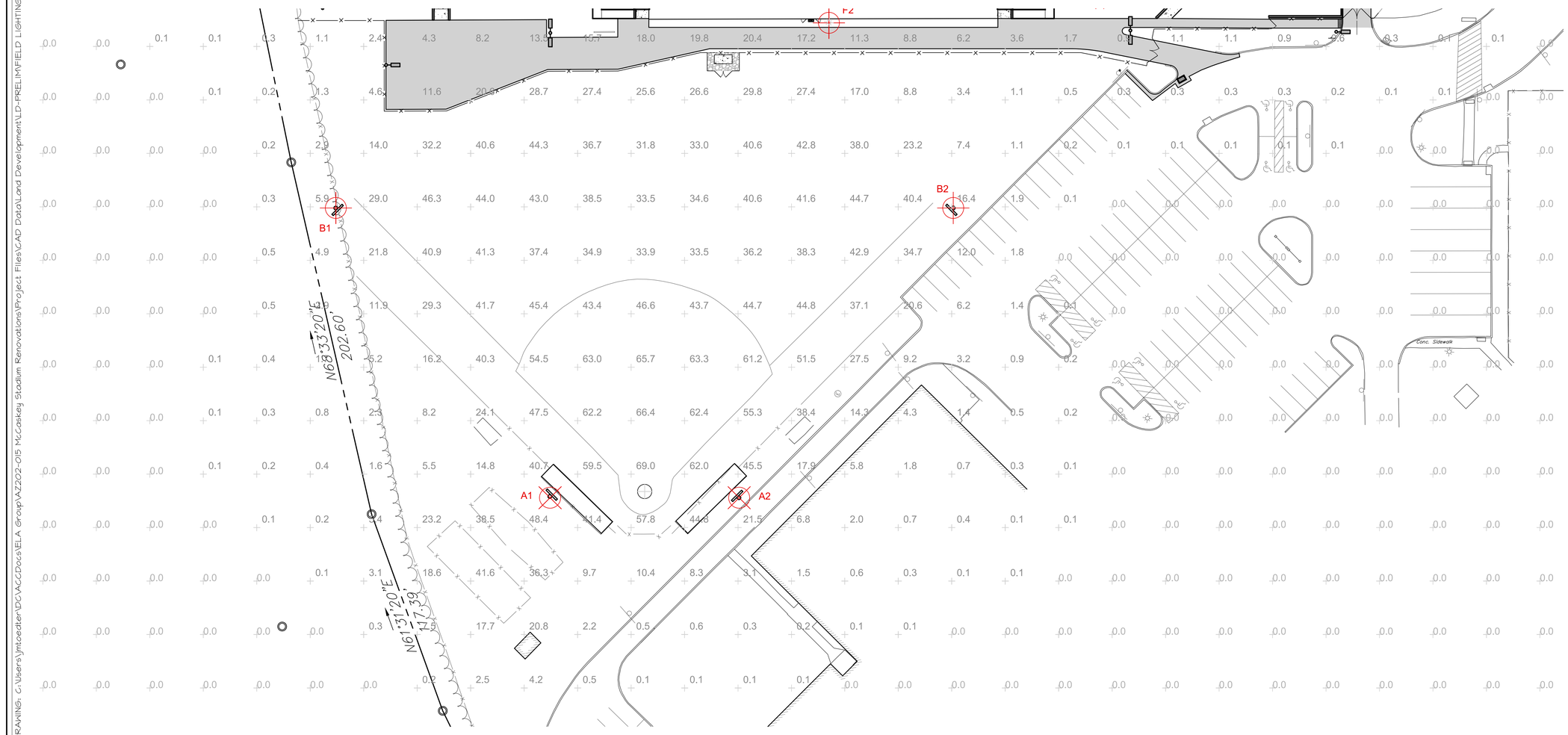
Weight (luminaire)	45 lb (20 kg)
UL listing number	E338094
UL listed for USA/Canada	UL1598 CSA-C22.2 No.250.0
CE Declaration	LVD, EMC, RoHS
Ingress protection (luminaire)	IP66
Impact rating	IK07
Material and finish	Aluminum, powder-coat painted
Wind speed rating (aiming only)	150 mi/h (67 m/s)
UL, IEC ambient temperature rating (luminaire)	50°C (122°F)

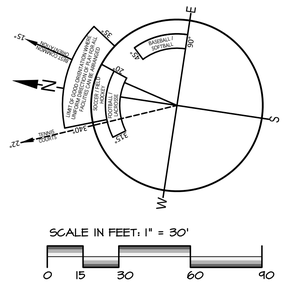
Photometric Characteristics

Projected lumen maintenance per IES TM-21-11	
L90 (20k)	>120,000 h
L80 (20k)	>120,000 h
L70 (20k)	>120,000 h
Lumens[1]	150,000
CIE correlated color temperature	5700 K
Color rendering index (CRI)	75 typ, 70 min
LED binning tolerance	5-step MacAdam Ellipse

Footnotes:

1) Value represents most common optical variation. Incorporates appropriate dirt depreciation factor for life of luminaire.





SCALE IN FEET: 1" = 30'

0 15 30 60 90

REVISIONS PER:		DATE:	BY:
1.	COU/LCCD COMMENTS	3/28/25	EWB
2.	-	-	-
3.	-	-	-
4.	-	-	-
5.	-	-	-

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — ELIZABETH WERNER BALDWIN — ENGINEER — PE080726

PENNSYLVANIA — REGISTERED LANDSCAPE ARCHITECT — REGISTRATION NUMBER RA-011

STORMWATER MANAGEMENT PLAN

SUBJECT:

FIELD LIGHTING PLAN

MCCASKEY HIGH SCHOOL

MCCASKEY HIGH SCHOOL STADIUM RENOVATIONS

CITY OF LANCASTER - LANCASTER COUNTY - PENNSYLVANIA

CLIENT:

MM ARCHITECTS

214 NORTH DUKE STREET

LANCASTER, PA 17602

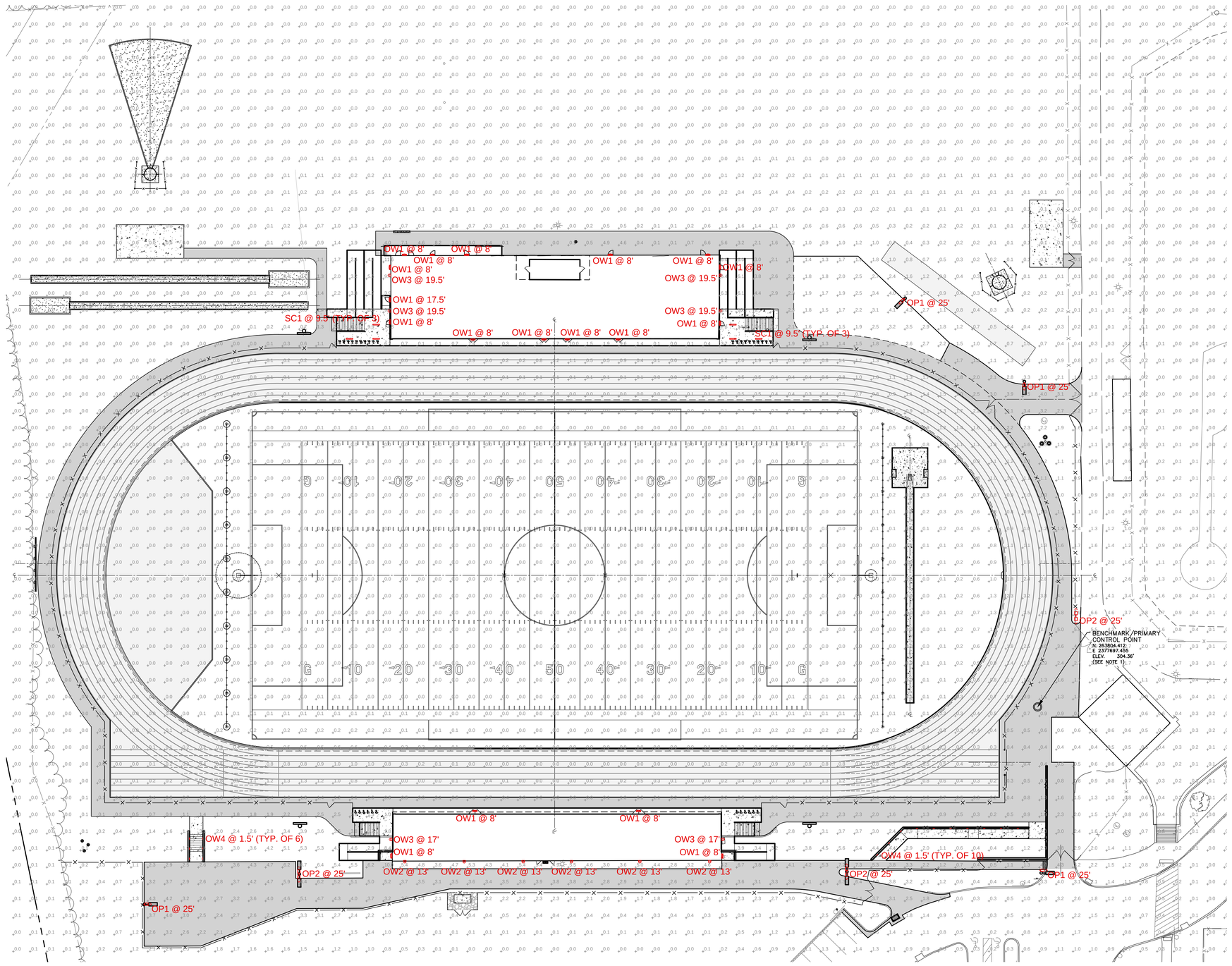
(717) 393-3211

MANAGER:	HDC	DATE:	April 1, 2025
DESIGNER:	EWB	PROJECT NO.	AZ202-015
DRAWN BY:	JMT	SCALE:	1" = 30'

DRAWING NO.

48 OF 53

DRAWING: G:\Users\jmteeter\DC\ACCDocs\ELA Group\AZ202-015 McCaskey Stadium Renovations\Project Files\CAD Data\Land Development\LD-PRELIMFIELD LIGHTING.dwg - PLOTTED: Apr 02, 2025 2:23 pm



Luminaire Schedule

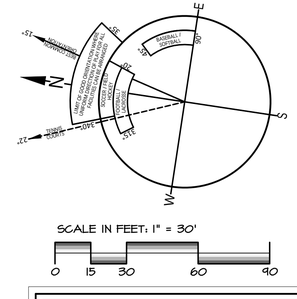
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Total Lamp Lumens	Light Loss Factor	Wattage
	OP1	4	NLS Lighting	NV-2-T4-80L-7-30K-UNV-ASA-FSP-40	LED Single Head Pole Mounted Site Lighting w/ Integral Motion Sensor - - Type 4 Distribution - Full Cut-off / Dark Sky Compliant	1	18995	0.9	168.99
	OP2	3	NLS Lighting	(2) NV-2-T4-80L-7-30K-UNV-ASA-FSP-40	LED Dual Head Pole Mounted Site Lighting w/ Integral Motion Sensor - - (2) Type 4 Distribution Mounted @ 180-Degrees Apart - Full Cut-off / Dark Sky Compliant	1	37990	0.9	337.98
	OW1	18	Luminaire LED	AEL-24IN-MIN10-20W-30K-MVOLT-DP	LED Low-Profile Wall Pack - Full Cut-off / Dark Sky Compliant	28	1452	0.9	17.6
	OW2	6	Signify Gardco	121-16L-1000-WW-G4-3-UNV-DD	LED Wall-Mounted Fixture - Type 3 Distribution - Full Cut-off / Dark Sky Compliant	1	4915	0.9	54.8
	OW3	6	Signify Gardco	121-16L-700-WW-G4-4-UNV-DD	LED Wall-Mounted Fixture - Type 4 Distribution - Full Cut-off / Dark Sky Compliant	1	7732	0.9	70.2
	OW4	16	Targetti	ZEL-41-FW-XX-L2-30	Exterior LED Steplight - Full Cut-off / Dark Sky Compliant	1	1054	0.9	9.1
	SC1	6	Luminaire LED	VPF8-4FT-MIN1-25W-30K-MVOLT-OP	4' Ceiling Mounted Vandal-Resistant Fixture	1	2961	0.9	26.6

NOTES:

1. ALL SITE LIGHTING LUMINAIRES ARE LISTED DARK SKY COMPLIANT; WITH THE FOLLOWING EXCEPTIONS:
   a. TYPE SC1 - LUMINAIRES HAVE 2.5% LIGHT DISTRIBUTION ABOVE 90-DEGREES AND ARE CEILING SURFACE MOUNTED BELOW THE BLEACHER PLATFORMS.
   b. MUSCO STADIUM LIGHTING - SEE STADIUM LIGHTING PHOTOMETRICS PLAN FOR ADDITIONAL INFORMATION.

Statistics

Description	Avg	Max	Min	Max/Min	Avg/Min
Property Line - North	0.0 fc	0.1 fc	0.0 fc	N/A	N/A
Site	0.3 fc	14.8 fc	0.0 fc	N/A	N/A



REVISIONS PER:		DATE:	BY:
1.	COL/LCCD COMMENTS	3/28/25	EWB
2.	-	-	-
3.	-	-	-
4.	-	-	-
5.	-	-	-

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — ELIZABETH WERNER BALDWIN — ENGINEER — PE080726

PENNSYLVANIA — REGISTERED LANDSCAPE ARCHITECT

STORMWATER MANAGEMENT PLAN

SUBJECT:

SITE LIGHTING PLAN

MCCASKEY HIGH SCHOOL

MCCASKEY HIGH SCHOOL STADIUM RENOVATIONS

CITY OF LANCASTER - LANCASTER COUNTY - PENNSYLVANIA

CLIENT:

MM ARCHITECTS

214 NORTH DUKE STREET

LANCASTER, PA 17602

(717) 393-3211

MANAGER:	HDC	DATE:	April 1, 2025
DESIGNER:	EWB	PROJECT NO.	AZ202-015
DRAWN BY:	JMT	SCALE:	1" = 30'

DRAWING NO.

49 OF 53

Luminaire Schedule

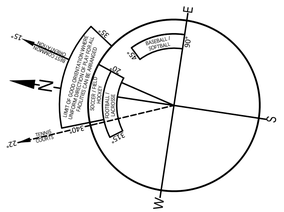
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Total Lamp Lumens	Light Loss Factor	Wattage
	OP1	4	NLS Lighting	NV-2-T4-80L-7-30K-UNV-ASA-FSP-40	LED Single Head Pole Mounted Site Lighting w/ Integral Motion Sensor - - Type 4 Distribution - Full Cut-off / Dark Sky Compliant	1	18995	0.9	168.99
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	OW4	16	Targetti	ZEL-41-FW-XX-L2-30	Exterior LED Steplight - Full Cut-off / Dark Sky Compliant	1	1054	0.9	9.1
	SC1	6	Luminaire LED	VPF8-4FT-MIN1-25W-30K-MVOLT-OP	4' Ceiling Mounted Vandal-Resistant Fixture	1	2961	0.9	26.6

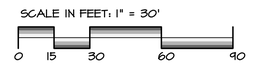
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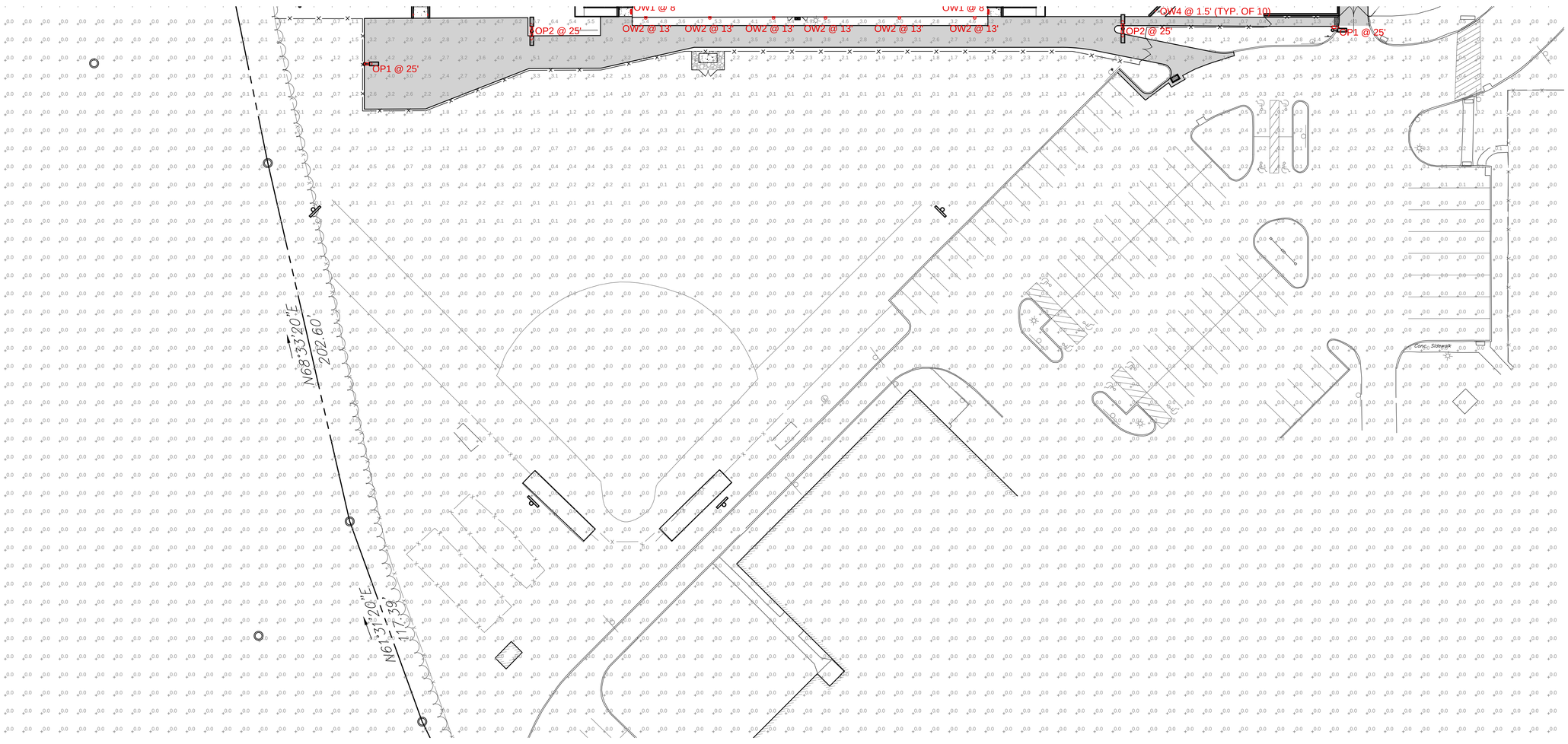
1. ALL SITE LIGHTING LUMINAIRES ARE LISTED DARK SKY COMPLIANT; WITH THE FOLLOWING EXCEPTIONS:
   a. TYPE SC1 - LUMINAIRES HAVE 2.5% LIGHT DISTRIBUTION ABOVE 90-DEGREES AND ARE CEILING SURFACE MOUNTED BELOW THE BLEACHER PLATFORMS.
   b. MUSCO STADIUM LIGHTING - SEE STADIUM LIGHTING PHOTOMETRICS PLAN FOR ADDITIONAL INFORMATION.

Statistics

Description	Avg	Max	Min	Max/Min	Avg/Min
Property Line - North	0.0 fc	0.1 fc	0.0 fc	N/A	N/A
Site	0.3 fc	14.8 fc	0.0 fc	N/A	N/A







REVISIONS PER:		DATE:	BY:
1.	COL/LCCD COMMENTS	3/28/25	EWB
2.	-	-	-
3.	-	-	-
4.	-	-	-
5.	-	-	-

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — ELIZABETH WERNER BALDWIN — ENGINEER — PE080729

PENNSYLVANIA — REGISTERED LANDSCAPE ARCHITECT

STORMWATER MANAGEMENT PLAN

SUBJECT:
SITE LIGHTING PLAN
MCCASKEY HIGH SCHOOL
MCCASKEY HIGH SCHOOL STADIUM RENOVATIONS
CITY OF LANCASTER - LANCASTER COUNTY - PENNSYLVANIA

CLIENT:
MM ARCHITECTS
214 NORTH DUKE STREET
LANCASTER, PA 17602
(717) 393-3211

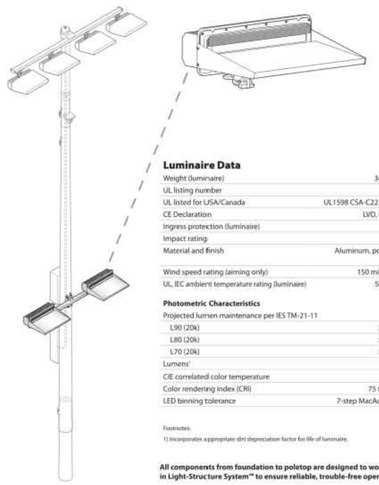
MANAGER:	HDC	DATE:	April 1, 2025
DESIGNER:	EWB	PROJECT NO.	AZ202-015
DRAWN BY:	JMT	SCALE:	1" = 30'

DRAWING NO.
50 OF 53

DRAWING: G:\Users\jmteeter\DC\ACCDocs\ELA Group\AZ202-015 McCaskey Stadium Renovations\Project Files\CAD Data\Land Development\LD-PRELIM\SITE LIGHTING.dwg - PLOTTED: Apr 02, 2025 2:24 pm

Datasheet: **Light-Structure System™**

Luminaire and Driver – TLC-BT-575



Luminaire Data

Weight (luminaire)	34 lb (15 kg)
UL listing number	E338094
UL listed for USA/Canada	UL1598 CSA-C22.2 No.250.0
CE Declaration	LVD, EMC, RoHS
Ingress protection (luminaire)	IP65
Impact rating	IK07
Material and finish	Aluminum, powder-coat painted
Wind speed rating (aiming only)	150 mi/h (67 m/s)
UL, IEC ambient temperature rating (luminaire)	50°C (122°F)

Photometric Characteristics

Projected lumen maintenance per IES TM-21-11	
L90 (20k)	>120,000 h
L80 (20k)	>120,000 h
L70 (20k)	>120,000 h
Lumens[1]	52,000
CIE correlated color temperature	5700 K
Color rendering index (CRI)	75 typ, 70 min
LED binning tolerance	7-step MacAdam Ellipse

Footnotes:

1) Incorporates appropriate dirt depreciation factor for life of luminaire.

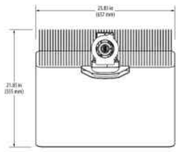
All components from foundation to poletop are designed to work together in Light-Structure System™ to ensure reliable, trouble-free operation.

U.S. and Foreign patent(s) issued and pending. © 2022 Musco Sports Lighting, LLC. PLC-BT-575 170KW 75 LTR • 94.3877-rev04.0

musco

Datasheet: TLC-LED-900 Luminaire and Driver





Luminaire Data

Weight (luminaire)	40 lb (18 kg)
UL listing number	E338094
UL listed for USA/Canada	UL1598 CSA-C22.2 No.250.0
CE Declaration	LVD, EMC, RoHS
Ingress protection (luminaire)	IP66
Impact rating	IK07
Material and finish	Aluminum, powder-coat painted
Wind speed rating (aiming only)	150 mi/h (67 m/s)
UL, IEC ambient temperature rating (luminaire)	50°C (122°F)

Photometric Characteristics

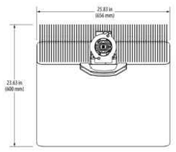
Projected lumen maintenance per IES TM-21-11	
L90 (20k)	>120,000 h
L80 (20k)	>120,000 h
L70 (20k)	>120,000 h
Lumens[1]	104,000
CIE correlated color temperature	5700 K
Color rendering index (CRI)	75 typ, 70 min
LED binning tolerance	5-step MacAdam Ellipse

Footnotes:

1) Value represents most common optical variation. Incorporates appropriate dirt depreciation factor for life of luminaire.

Datasheet: TLC-LED-1200 Luminaire and Driver





Luminaire Data

Weight (luminaire)	45 lb (20 kg)
UL listing number	E338094
UL listed for USA/Canada	UL1598 CSA-C22.2 No.250.0
CE Declaration	LVD, EMC, RoHS
Ingress protection (luminaire)	IP66
Impact rating	IK07
Material and finish	Aluminum, powder-coat painted
Wind speed rating (aiming only)	150 mi/h (67 m/s)
UL, IEC ambient temperature rating (luminaire)	50°C (122°F)

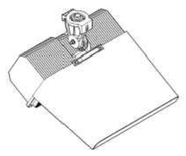
Photometric Characteristics

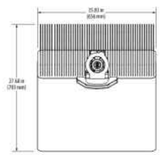
Projected lumen maintenance per IES TM-21-11	
L90 (20k)	>120,000 h
L80 (20k)	>120,000 h
L70 (20k)	>120,000 h
Lumens[1]	150,000
CIE correlated color temperature	5700 K
Color rendering index (CRI)	75 typ, 70 min
LED binning tolerance	5-step MacAdam Ellipse

Footnotes:

1) Value represents most common optical variation. Incorporates appropriate dirt depreciation factor for life of luminaire.

Datasheet: TLC-LED-1500 Luminaire and Driver





Luminaire Data

Weight (luminaire)	67 lb (30 kg)
UL listing number	E338094
UL listed for USA/Canada	UL1598 CSA-C22.2 No.250.0
CE Declaration	LVD, EMC, RoHS
Ingress protection (luminaire)	IP66
Impact rating	IK07
Material and finish	Aluminum, powder-coat painted
Wind speed rating (aiming only)	150 mi/h (67 m/s)
UL, IEC ambient temperature rating (luminaire)	50°C (122°F)

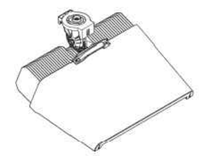
Photometric Characteristics

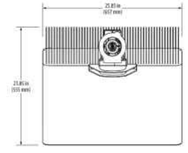
Projected lumen maintenance per IES TM-21-11	
L90 (20k)	>120,000 h
L80 (20k)	>120,000 h
L70 (20k)	>120,000 h
Lumens[1]	181,000
CIE correlated color temperature	5700 K
Color rendering index (CRI)	75 typ, 70 min
LED binning tolerance	5-step MacAdam Ellipse

Footnotes:

1) Value represents most common optical variation. Incorporates appropriate dirt depreciation factor for life of luminaire.

Datasheet: TLC-RGBW Luminaire and Driver





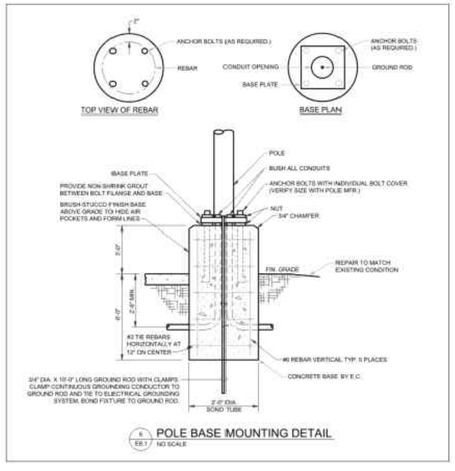
Luminaire Data

Weight (luminaire)	40 lb (18 kg)
UL listing number	E338094
UL listed for USA/Canada	UL1598 CSA-C22.2 No.250.0
Ingress protection (luminaire)	IP66
Impact rating	IK07
Material and finish	Aluminum, powder-coat painted
Wind speed rating (aiming only)	150 mi/h (67 m/s)
UL ambient temperature rating (luminaire)	50°C (122°F)

Photometric Characteristics

Projected lumen maintenance per IES TM-21-11	
L90 (20k) (white only)	>120,000 h
L80 (20k) (white only)	>120,000 h
L70 (20k) (white only)	>120,000 h
CIE correlated color temperature (white only)	5700 K
Color rendering index (CRI) (white only)	75 typ, 70 min
Lumens, white	28,500
Lumens, red	8000
Lumens, green	20,000
Lumens, blue	8000
LED binning tolerance	5-step MacAdam Ellipse (white only)

A
51
FIELD LIGHTING DETAILS
NOT TO SCALE



E
EB.1
POLE BASE MOUNTING DETAIL
NO SCALE

NLS LIGHTING

NV-2

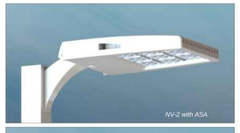
AREA LIGHTING

KEY FEATURES

- Ideal High Lumen Output for Area, Site, Roadway, and Large Parking Venues such as: Corporate Parks, Shopping Malls, Event & Sports Stadiums, Roadways, and Airports
- Sleek Robust Design of the NV-2 (Weight: 42 lbs., EPA: 0.61)
- IES Distributions T2, T3, T4, and TS
- BEL, 9KL, 11Z, and 12BL LED Configurations, 168 to 409 Watts
- Amber, 2700K, 3000K, 3500K, 4000K, 5000K CCT Multichip High Power 70 & 80 CRI LEDs
- IP65 Rated Against Dust & Water Ingress, IK10 Rated for Tamper/Vandalism/Impact Protection
- Mountings available have a 1.5G to 3G Vibration Rating: Architectural Sweep Arm, Direct Pole 6" and 11" Arm, Knuckle Mount, Wall Mount, Trunnion Mount, Mast Arm Mount, and Tennis Arm
- 20kA Surge Protection (120V - 480V), 0 - 10V Programmable, Dimming LED Drivers
- LED Drivers Ambient Temp. Min (°C) is -40°C and Ambient Temp. Max (°C) ranges from 50°C to 55°C
- Silicone Micro Optics providing 96% Clarity and Heat Resistant up to 150°C
- 9 Standard Finishes, Marine Grade Finish and Custom Finish Available
- Controls Agnostic, Compatible with Most Control Systems and Sensors
- Environmentally Friendly Product Which Reduces Energy Consumption, L70 = 100,000 hours
- Easy to Install Mounting
- Cost Competitive and Short Shipping Lead Times in Days & Weeks

BUY AMERICAN

To ensure the latest BAA/TAA/BABA Standards are being met, please select BAA, TAA, or BABA in the options section. Please contact the factory before placing an order for any NLS products requesting BAA (Buy American Act), TAA (Trade American Act), or BABA (Build America, Buy America).





A
51
NOT TO SCALE

REVISIONS PER:		DATE:	BY:
1.	COL/LCCD COMMENTS	3/28/25	EWB
2.	-	-	-
3.	-	-	-
4.	-	-	-
5.	-	-	-

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LITITZ, PA 17543
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COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
ELIZABETH WERNER BALDWIN
ENGINEER
PE080724

PENNSYLVANIA
GREGORY D. CASSEL
REGISTERED LANDSCAPE ARCHITECT

STORMWATER MANAGEMENT PLAN

SUBJECT:

LIGHTING DETAILS

MCCASKEY HIGH SCHOOL

MCCASKEY HIGH SCHOOL STADIUM RENOVATIONS

CITY OF LANCASTER - LANCASTER COUNTY - PENNSYLVANIA

CLIENT:

MM ARCHITECTS

214 NORTH DUKE STREET

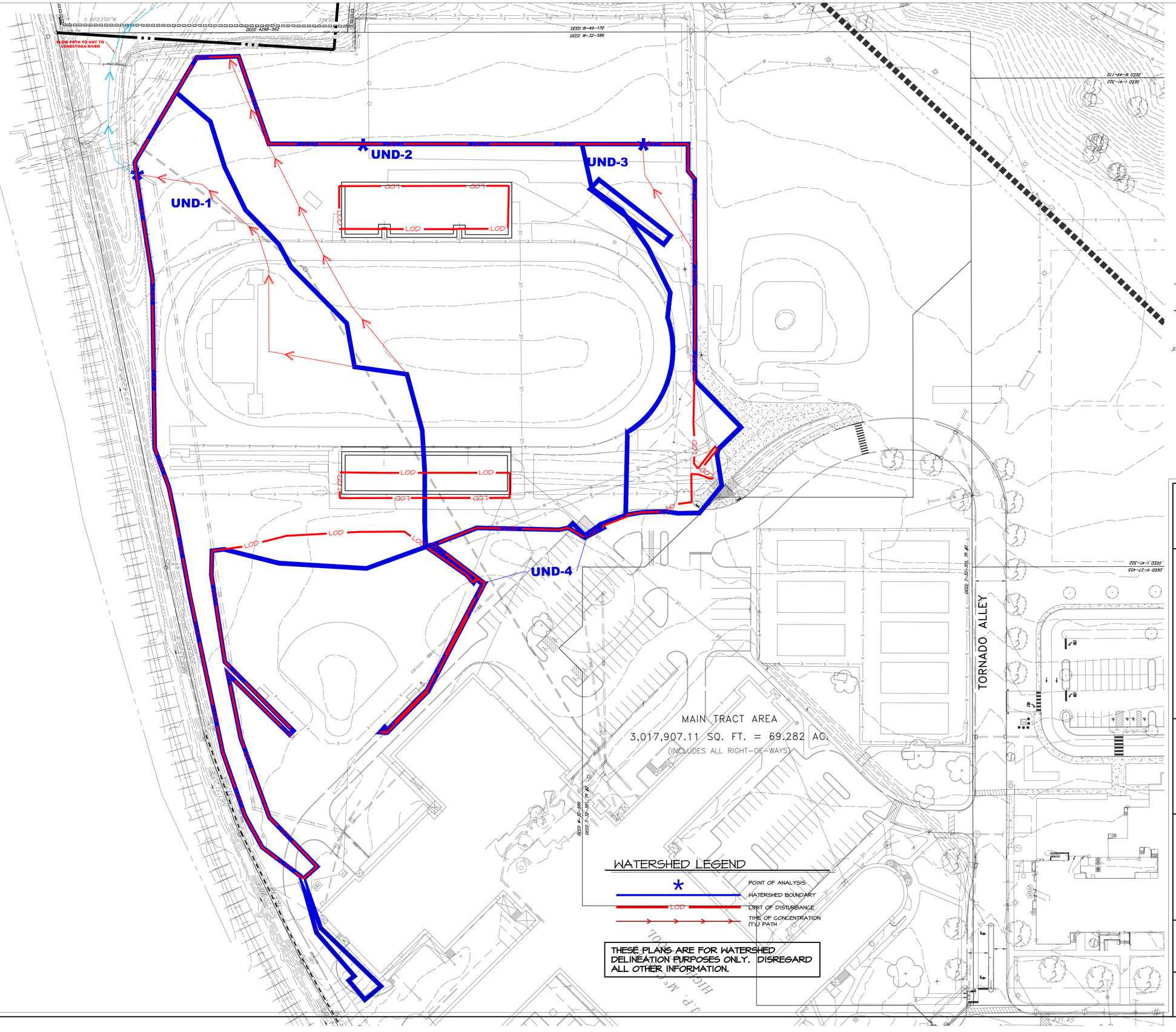
LANCASTER, PA 17602

(717) 393-3211

MANAGER:	HDC	DATE:	April 1, 2025
DESIGNER:	EWB	PROJECT NO.	AZ202-015
DRAWN BY:	JMT	SCALE:	

DRAWING NO.

51 OF 53



REVISIONS PER:	DATE:	BY:
1. COL/LCCD COMMENTS	3/28/25	EWB
2. -	-	-
3. -	-	-
4. -	-	-
5. -	-	-

ATHLETIC FACILITIES DESIGN & CONSULTING
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COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
ELIZABETH WERNER BALDWIN
ENGINEER
PE080728

PENNSYLVANIA
REGISTERED LANDSCAPE ARCHITECT

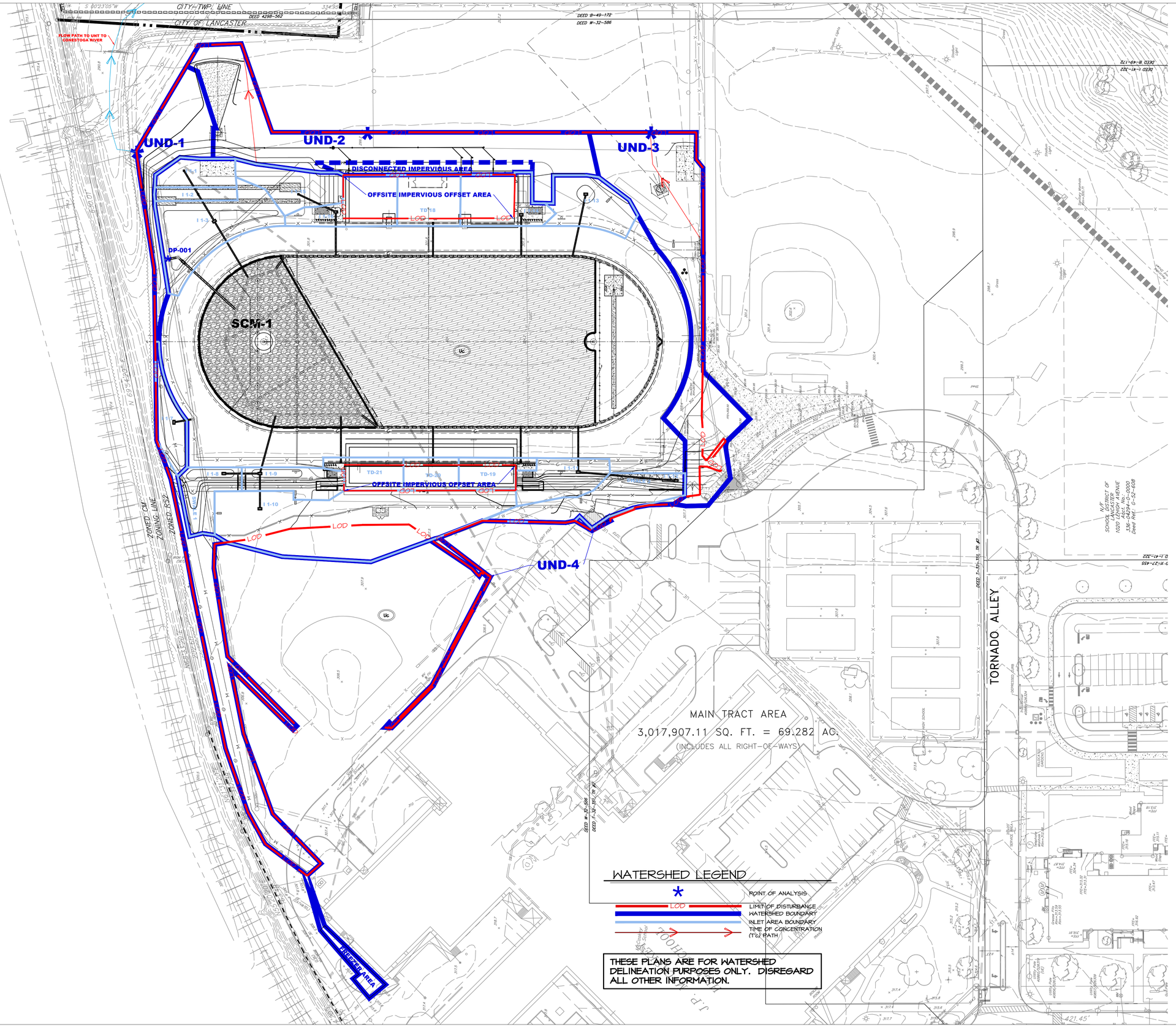
STORMWATER MANAGEMENT PLAN

SUBJECT:
PRE-DEVELOPMENT WATERSHED MAP
MCCASKEY HIGH SCHOOL
MCCASKEY HIGH SCHOOL STADIUM RENOVATIONS
CITY OF LANCASTER - LANCASTER COUNTY - PENNSYLVANIA

CLIENT:
MM ARCHITECTS
214 NORTH DUKE STREET
LANCASTER, PA 17602
(717) 393-3211

MANAGER:	HDC	DATE:	February 6, 2025
DESIGNER:	EWB	PROJECT NO.	AZ202-015
DRAWN BY:	JMT	SCALE:	1" = 50'

DRAWING NO.
52 OF 53



REVISIONS PER:	DATE:	BY:
1. COL/LCCD COMMENTS	3/28/25	EWB
2. -	-	-
3. -	-	-
4. -	-	-
5. -	-	-

ELA SPORT
ATHLETIC FACILITIES DESIGN & CONSULTING
743 SOUTH BROAD STREET
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COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
ELIZABETH WERNER BALDWIN
ENGINEER
PE080724

COMMONWEALTH OF PENNSYLVANIA
REGISTERED LANDSCAPE ARCHITECT

STORMWATER MANAGEMENT PLAN

SUBJECT:

POST-DEVELOPMENT WATERSHED MAP

MCCASKEY HIGH SCHOOL

MCCASKEY HIGH SCHOOL STADIUM RENOVATIONS

CITY OF LANCASTER - LANCASTER COUNTY - PENNSYLVANIA

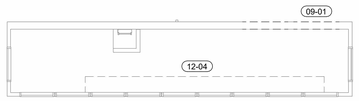
CLIENT:

MM ARCHITECTS
214 NORTH DUKE STREET
LANCASTER, PA 17602
(717) 393-3211

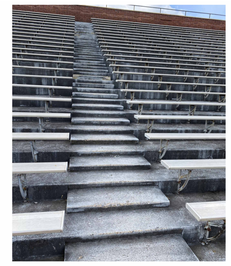
MANAGER:	HDC	DATE:	February 18, 2025
DESIGNER:	EWB	PROJECT NO.	AZ202-015
DRAWN BY:	JMT	SCALE:	1" = 50'

DRAWING NO.

53 OF 53



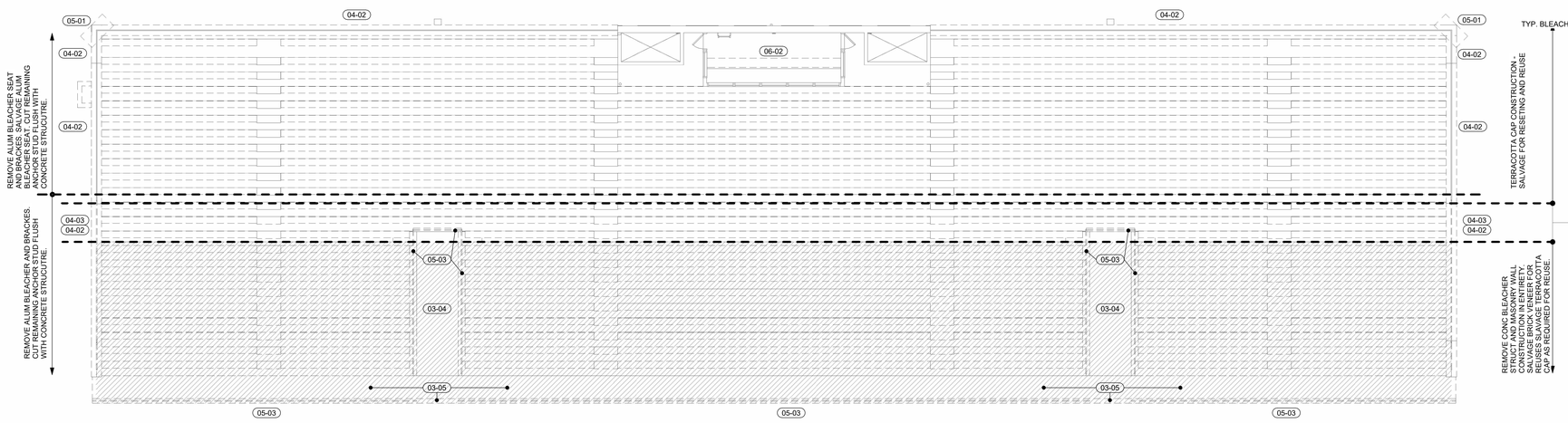
3 PRESS BOX SECOND FLOOR DEMOLITION PLAN
AD1.1 1/8" = 1'-0"



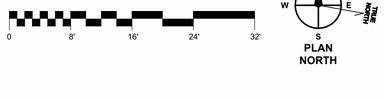
GENERAL NOTE
ALL BLEACHER SEATING AND ASSOCIATED BRACKETS TO BE REMOVED FOR CLEANING, REPAIRING, AND SEALING OF CONCRETE BLEACHERS.

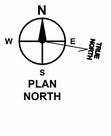
SPECIFIC DEMOLITION NOTES - SHEET AD1.1

03-04	REMOVE CONCRETE RAMP CONSTRUCTION
03-05	REMOVE CONCRETE SIDEWALK AND CURB
04-02	REMOVE AND SALVAGE EXIST TERRA COTTA COPING FOR RESETTING AND REPAIR
04-03	REMOVE AND SALVAGE EXIST FACE BRICK FOR REUSE IN PATCHING/REPAIR
05-01	REMOVE PA SYSTEM SUPPORTS AND EQUIPMENT
05-03	REMOVE METAL GUARDRAIL
05-05	REMOVE CHAINLINK FENCE - RAILING TO REMAIN
06-02	REMOVE WOOD BENCH AND WOOD SUPPORTS
09-01	REMOVE STUD WALL CONSTRUCTION - REFER TO ARCHITECTURAL DWGS FOR EXTENT.
12-04	REMOVE COUNTER TOP AND SUPPORTS



1 VISITOR BLEACHER DEMOLITION PLAN
AD1.1 1/8" = 1'-0"





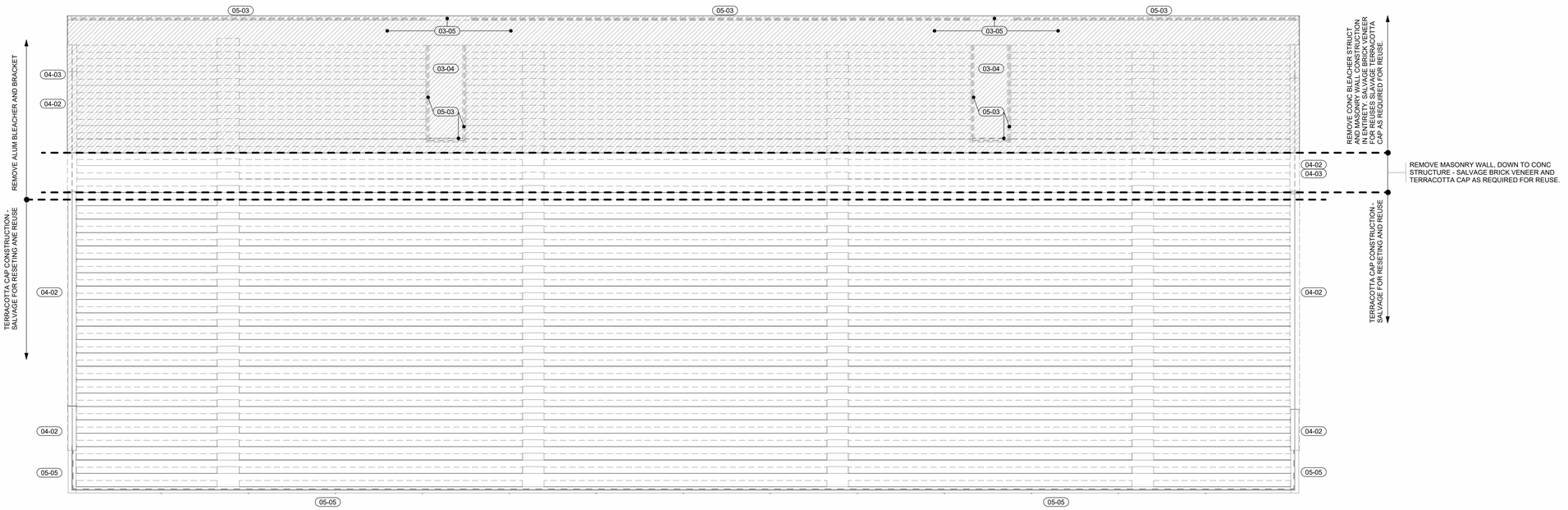
PLAN NORTH

GENERAL DEMOLITION NOTES:

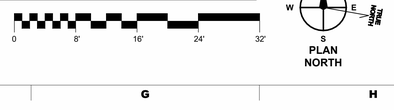
1. REFER TO EXTERIOR ELEVATION DRAWINGS FOR MISC. DEMOLITION ASSOCIATED REPAIR SCOPE INCLUDING BUT NOT LIMITED MASONRY VENEER AND INFILLS, PRE-CAST SILLS, ETC.
2. ALL PRIME CONTRACTORS SHALL REVIEW AND VERIFY ALL DEMOLITION WORK AGAINST THE NEW CONSTRUCTION DRAWINGS PRIOR TO COMMENCING WORK AND BRING ANY CONFLICTS TO THE ATTENTION OF THE ARCHITECT.
3. CONTRACTORS SHALL REMOVE ALL INTERIOR & EXTERIOR CONSTRUCTION AS INDICATED. CONTRACTORS SHALL VERIFY IF ANY CONSTRUCTION INDICTED AS DEMOLITION IS STRUCTURAL PRIOR TO COMMENCING DEMOLITION WORK. G.C. IS RESPONSIBLE FOR PROVIDING ADEQUATE SUPPORT WHERE EXISTING STRUCTURE MAY BE JEOPARDIZED BY DEMOLITION.
4. ALL EXISTING STRUCTURE IS TO REMAIN UNDISTURBED UNLESS OTHERWISE NOTED ON THE STRUCTURAL DRAWINGS.
5. REFER TO HVAC, PLUMBING & ELECTRICAL DRAWINGS FOR REMOVAL OF ASSOCIATED ITEMS. THESE ITEMS MAY BE INDICATED ON THE ARCHITECTURAL DEMOLITION DRAWINGS FOR ILLUSTRATION PURPOSES ONLY.
6. WHERE MASONRY WALLS, WHICH PENETRATE THE FLOOR, ARE SHOWN TO BE REMOVED THEY SHOULD BE REMOVED TO A MIN. OF 8" BELOW THE FINISHED FLOOR ELEVATION. G.C. IS RESPONSIBLE FOR PROPERLY INFILLING THE CONC. SLAB AS REQUIRED TO MAKE A LEVEL & SMOOTH SURFACE W/ THE ADJACENT FLOOR SLAB, AND TO PROPERLY PREP/ FLASH FOR NEW FLOORING.
7. THE EXISTING CONSTRUCTION MAY VARY FROM THE DRAWINGS. THE G.C. IS RESPONSIBLE FOR VERIFYING THE ACTUAL FIELD CONDITIONS. THE ARCHITECT IS TO BE NOTIFIED OF ANY CONFLICTS.
8. ANY ITEMS INDICATED FOR SALVAGE OR REINSTALLATION ARE TO BE STORED IN A SAFE DRY LOCATION AWAY FROM ANY CONSTRUCTION & TAGGED FOR IDENTIFICATION AS TO WHERE THE ITEM WAS REMOVED & PLANNED TO BE RELOCATED.
9. ALL MATERIALS TO BE REMOVED SHALL BE DONE IN A MANNER WHICH WILL NEITHER IMPEDE THE PROJECT SCHEDULE NOR OPEN THE EXISTING STRUCTURE TO DETRIMENT.
10. REFER TO FINISH SCHEDULE & FLOOR FINISH PLANS FOR COORDINATION OF DEMOLITION WORK W/ NEW FINISHES / CONSTRUCTION.
11. REFER TO SPECIFICATION SECTION 01 12 00 MULTIPLE CONTRACT SUMMARY FOR DEMOLITION REQUIREMENTS BY PRIME CONTRACT.
12. REFER TO PLUMBING DRAWINGS FOR CUTTING & PATCHING SCOPE REQUIRED BY NEW PLUMBING FIXTURES & FLOOR DRAINS.
13. THE G.C. SHALL REMOVE ANY MISCELLANEOUS FURNISHINGS LEFT IN THE BUILDING BY THE OWNER.

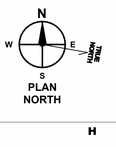
SALVAGE NOTES:

1. SALVAGE ALUMINUM BLEACHER SEATS BY G.C. OWNER CONTRACTOR TO MODIFY LENGHT AND REINSTALL.
2. SALVAGE TERRA COTTA COPING.
3. SALVAGE FACE BRICK IN GOOD CONDITION.



2 HOME BLEACHER DEMOLITION PLAN
AD1.1 1/8" = 1'-0"





PLAN NORTH

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CONSULTANT:

RENOVATIONS
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PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DATE: 03/05/2025
DESCRIPTION: CONFORMED SET

PROJ # : 24-SDL-03 DRAWN BY : SAB

SHEET TITLE:
BLEACHER DEMOLITION PLANS

SHEET NUMBER:
AD1.1

CONFORMED SET

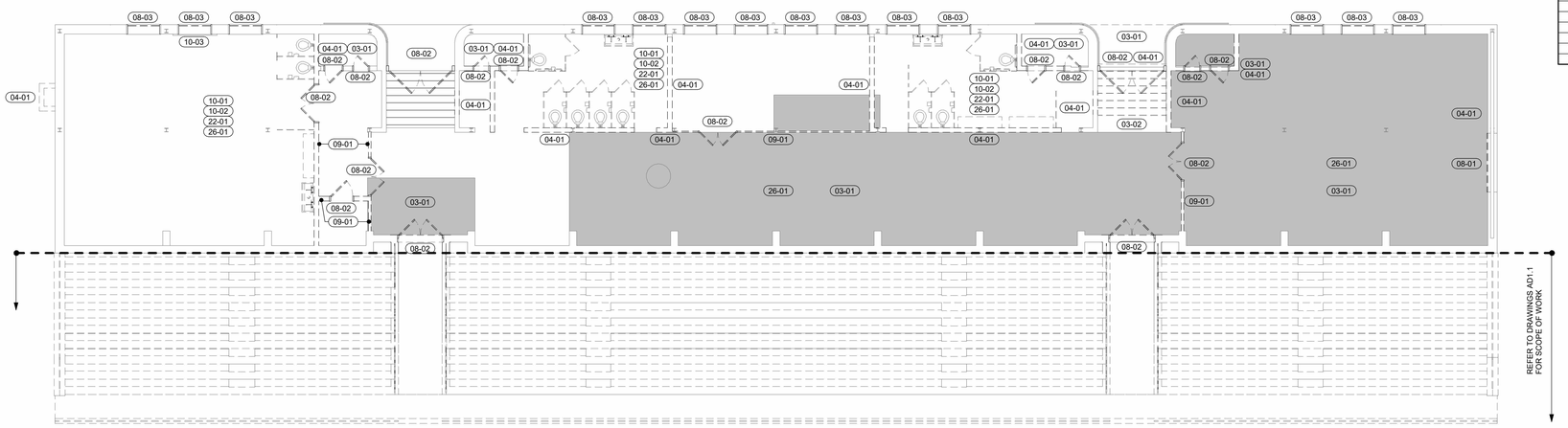
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FLOOR INFILL LEGEND

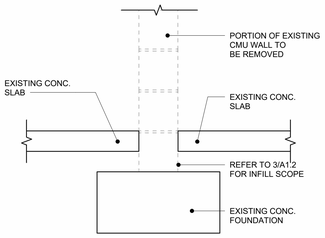
HATCH INDICATES - REMOVE CONCRETE, DECK / STONE BASE - REFER TO DEMOLITION NOTES 03-01

SPECIFIC DEMOLITION NOTES - SHEET AD1.2

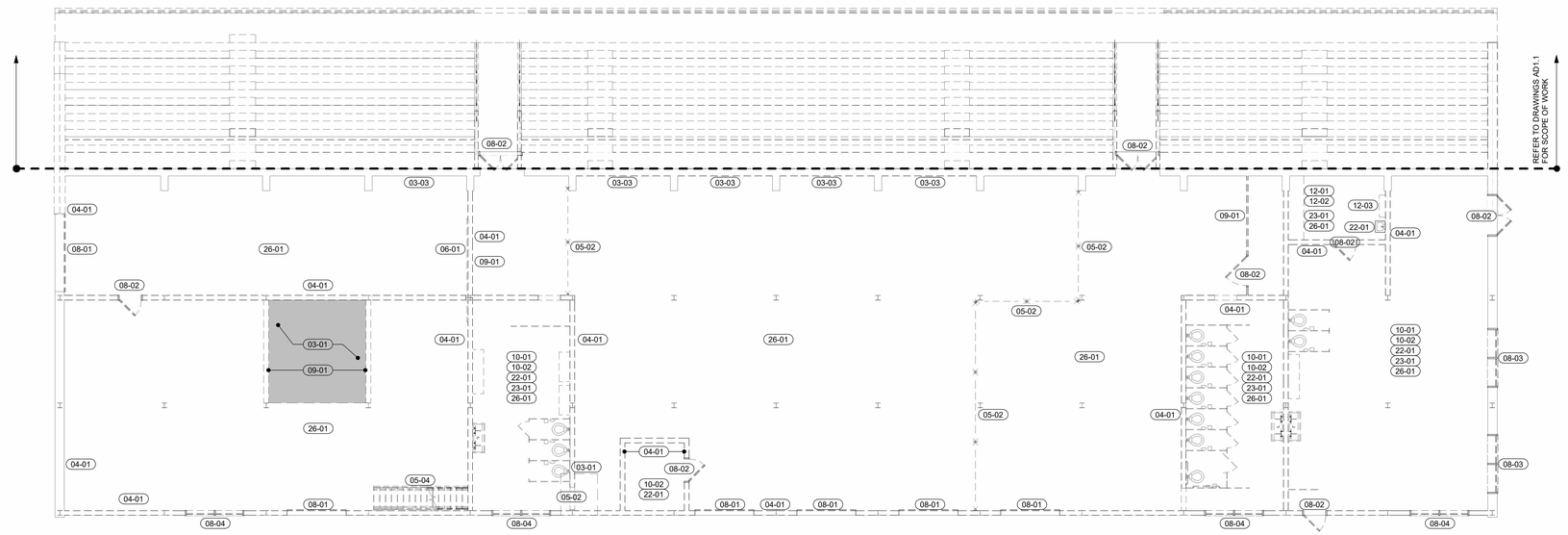
03-01	<varies>
03-02	REMOVE CONCRETE STAIR CONSTRUCTION
03-03	REMOVE CONCRETE WALL CONSTRUCTION
04-01	REMOVE MASONRY WALL CONSTRUCTION. REFER TO ARCHITECTURAL AND STRUCTURAL DWGS. FOR EXTENT AND COORDINATION.
05-02	REMOVE CHAIN LINK METAL FENCE
05-04	REMOVE METAL STAIR CONSTRUCTION AND ASSOCIATED GUARD/HANDRAILS
06-01	REMOVE WOOD SLIDING DOOR AND ASSOCIATED HARDWARE
08-01	REMOVE OVERHEAD DOOR, ASSOCIATED FRAMING, FASTENERS, AND TRACK
08-02	REMOVE DOOR, HARDWARE AND FRAME - RESIZE OPENING AS REQ.- REFER TO ARCHITECTURAL DWGS FOR SIZE & EXTENT.
08-03	REMOVE METAL WINDOW SYSTEM
08-04	REMOVE METAL WINDOW SYSTEM, INCLUDING SILL AND STOOL.
09-01	REMOVE STUD WALL CONSTRUCTION - REFER TO ARCHITECTURAL DWGS FOR EXTENT.
10-01	REMOVE TOILET PARTITIONS - ENTIRE ROOM
10-02	REMOVE TOILET ACCESSORIES - ENTIRE ROOM
10-03	REMOVE INSTRUCTION BOARDS ENTIRE ROOM
12-01	REMOVE BASE / TALL CASEWORK
12-02	REMOVE WALL CABINETS CASEWORK
12-03	REMOVE SHELVING UNITS
22-01	REFER TO PLUMBING DRAWINGS FOR REMOVAL OF PLUMBING FIXTURES AND EQUIPMENT
23-01	REFER TO HVAC DRAWINGS FOR REMOVAL OF HVAC COMPONENTS
26-01	REFER TO ELECTRICAL DRAWINGS FOR REMOVAL OF ELECTRICAL EQUIPMENT - BY ELECTRICAL CONTRACTOR



1 VISITOR FIRST FLOOR DEMOLITION PLAN
AD1.2 1/8" = 1'-0"



3 TYP. WALL DEMOLITION
AD1.2 NTS



2 HOME FIRST FLOOR DEMOLITION PLAN
AD1.2 1/8" = 1'-0"

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445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DATE: 03/05/2025
DESCRIPTION: CONFORMED SET

PROJ # : 24-SDL-03 DRAWN BY : SAB

SHEET TITLE:

FIRST FLOOR DEMOLITION PLANS

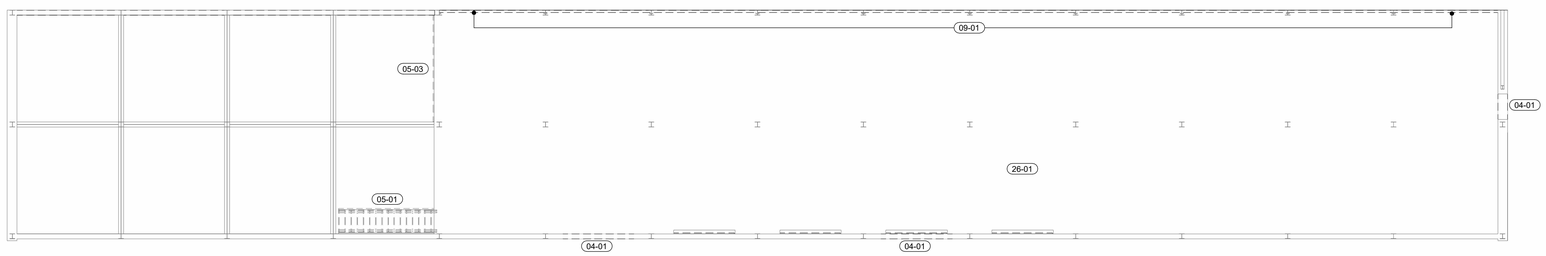
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AD1.2

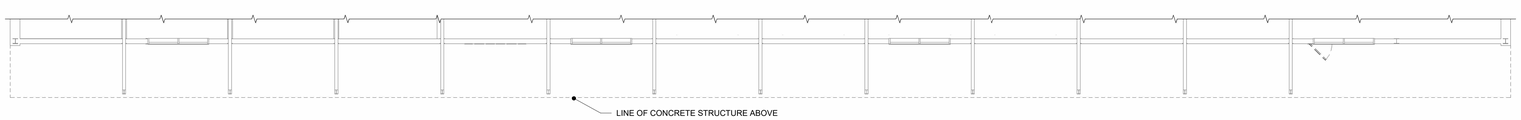
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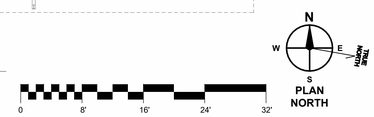
SPECIFIC DEMOLITION NOTES - SHEET AD1.3	
04-01	REMOVE MASONRY WALL CONSTRUCTION. REFER TO ARCHITECTURAL AND STRUCTURAL DWGS. FOR EXTENT AND COORDINATION.
05-01	REMOVE METAL STAIR CONSTRUCTION AND ASSOCIATED HANDRAILS.
05-03	REMOVE METAL GUARDRAIL
09-01	REMOVE STUD WALL CONSTRUCTION - REFER TO ARCHITECTURAL DWGS FOR EXTENT.
26-01	REFER TO ELECTRICAL DRAWINGS FOR REMOVAL OF ELECTRICAL EQUIPMENT - BY ELECTRICAL CONTRACTOR



1 HOME SECOND FLOOR DEMOLITION PLAN
AD1.3 1/8" = 1'-0"



2 HOME SECOND FLOOR UPPER WINDOWS DEMOLITION PLAN
AD1.3 1/8" = 1'-0"



4/21/2025 5:10:39 PM

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SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DATE: 03/05/2025
DESCRIPTION: CONFORMED SET

PROJ # : 24-SDL-03 DRAWN BY : SAB

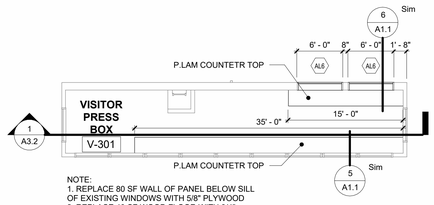
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SECOND FLOOR DEMOLITION PLAN

SHEET NUMBER:

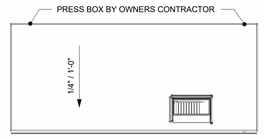
AD1.3

CONFORMED SET

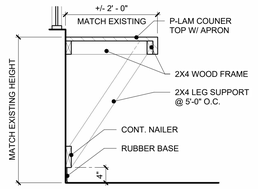


NOTE:
1. REPLACE 80 SF WALL OF PANEL BELOW SILL OF EXISTING WINDOWS WITH 5/8" PLYWOOD
2. REPLACE 40 SF WOOD FLOOR WITH 3/4" PLYWOOD PANEL

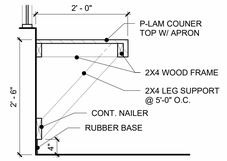
3 VISITOR PRESS BOX SECOND FLOOR
A1.1 1/8" = 1'-0"



4 HOME PRESS BOX FILM DECK
A1.1 1/8" = 1'-0"

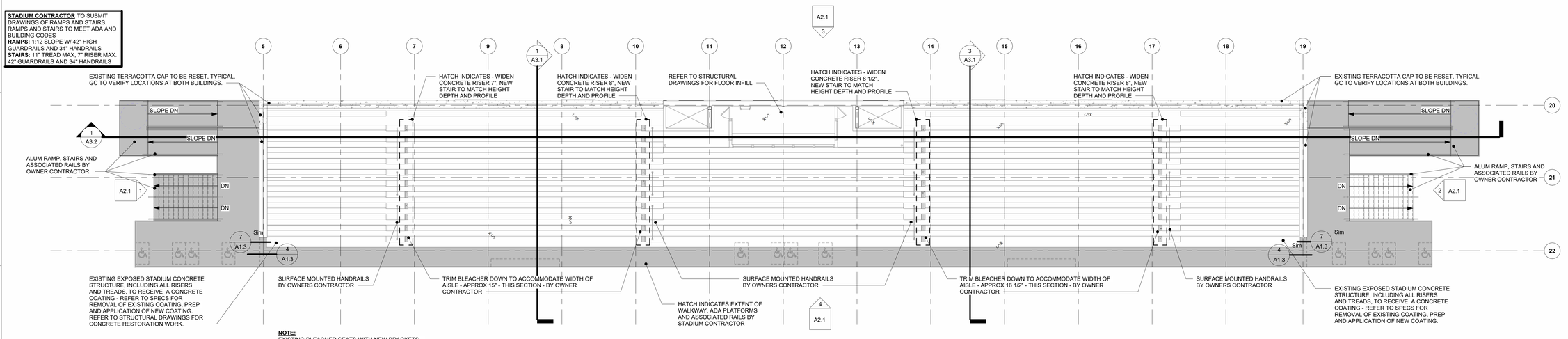


5 COUNTER TOP DETAIL
A1.1 3/4" = 1'-0"



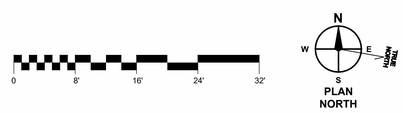
6 COUNTER TOP DETAIL
A1.1 3/4" = 1'-0"

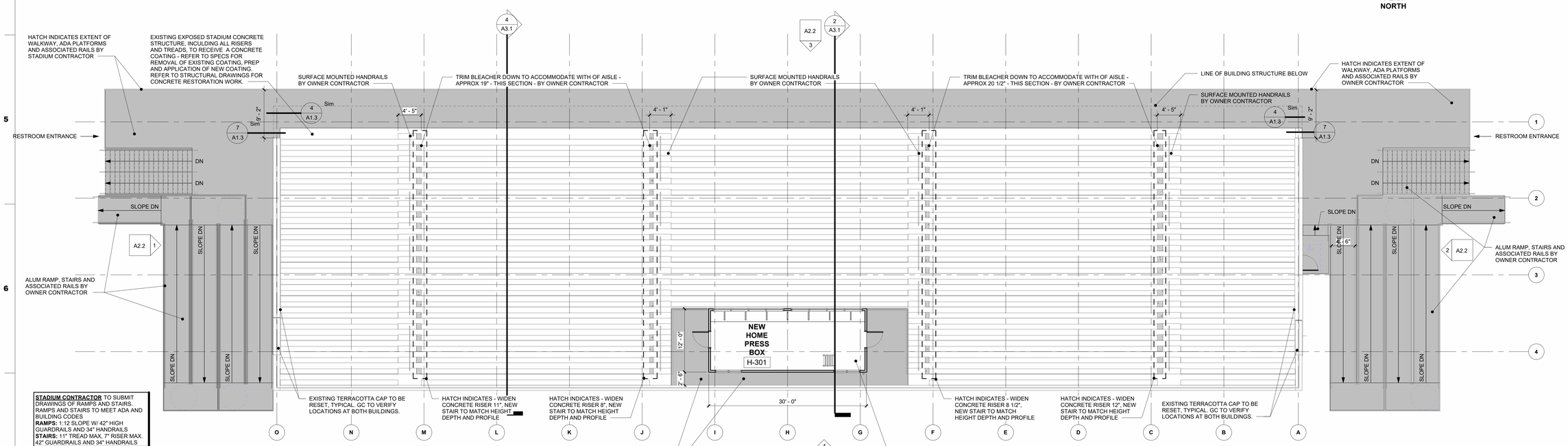
STADIUM CONTRACTOR TO SUBMIT DRAWINGS OF RAMPS AND STAIRS. RAMPS AND STAIRS TO MEET ADA AND BUILDING CODES
RAMPS: 1:12 SLOPE W/ 42" HIGH GUARDRAILS AND 34" HANDRAILS
STAIRS: 11" TREAD MAX, 7" RISER MAX. 42" GUARDRAILS AND 34" HANDRAILS



NOTE:
EXISTING BLEACHER SEATS WITH NEW BRACKETS - INSTALLED BY OWNERS CONTRACTOR

1 VISITOR BLEACHER PLAN
A1.1 1/8" = 1'-0"

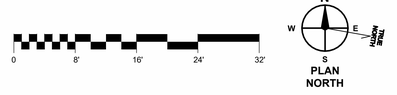




STADIUM CONTRACTOR TO SUBMIT DRAWINGS OF RAMPS AND STAIRS. RAMPS AND STAIRS TO MEET ADA AND BUILDING CODES
RAMPS: 1:12 SLOPE W/ 42" HIGH GUARDRAILS AND 34" HANDRAILS
STAIRS: 11" TREAD MAX, 7" RISER MAX. 42" GUARDRAILS AND 34" HANDRAILS

NOTE:
EXISTING BLEACHER SEATS WITH NEW BRACKETS - INSTALLED BY OWNERS CONTRACTOR

2 HOME BLEACHER PLAN
A1.1 1/8" = 1'-0"



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445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DATE: 03/05/2025 DESCRIPTION: CONFORMED SET

PROJ # : 24-SDL-03 DRAWN BY : SAB

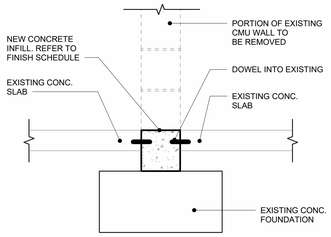
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BLEACHER PLANS

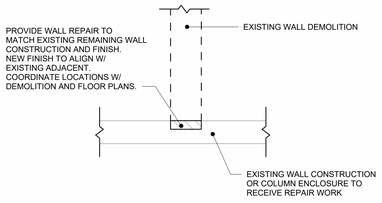
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A1.1

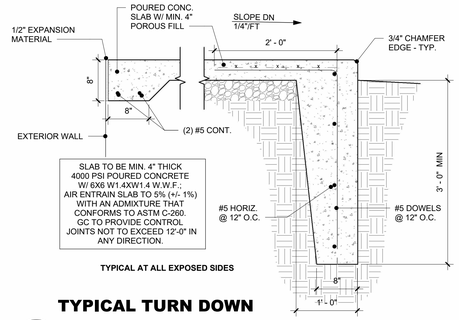
CONFORMED SET



3 TYP. FLOOR INFILL AT WALL DEMOLITION
A1.2 NTS



4 TYPICAL WALL REPAIR DETAIL
A1.2 3/4" = 1'-0"



TYPICAL AT ALL EXPOSED SIDES

TYPICAL TURN DOWN SLAB DETAIL
A1.2 1" = 1'-0"

FLOOR INFILL LEGEND

HATCH INDICATES - NEW CONCRETE FLOOR - REFER TO STRUCT FOR STONE BASE / METAL DECK.

CONVENTIONS

1. DETAILS ARE KEYED ONCE (ON THE PLANS OR ELEVATIONS WHEN THEY FIRST OCCUR) AND ARE TYPICAL FOR SIMILAR CONDITIONS THROUGH OUT UNO
2. TYPICAL OR "TYP" MEANS FOR ALL SIMILAR CONSTRUCTION, UNO
3. DO NOT SCALE DRAWINGS; DIMENSIONS GOVERN ALWAYS.
4. LARGE SCALE DETAILS GOVERN OVER SMALL SCALE DETAILS.
5. ALL VERTICAL DIMENSIONS SHOWN TO OR FROM FINISHED FLOOR LEVEL, UNO
6. "ALIGN" MEANS THAT SIMILAR COMPONENTS OF CONSTRUCTION, AS INDICATED BY THE DRAWINGS, MUST BE STRAIGHT AND IN LINE, AND ANY JOINTS / SEAMS MUST BE CONCEALED AND INVISIBLE TO THE EYE OR TOUCH.
7. "PROVIDE" MEANS PROVIDE AND INSTALL, UNO

PARTITION TYPE SCHEDULE & NOTES

INTERIOR PARTITIONS

STUD WALLS

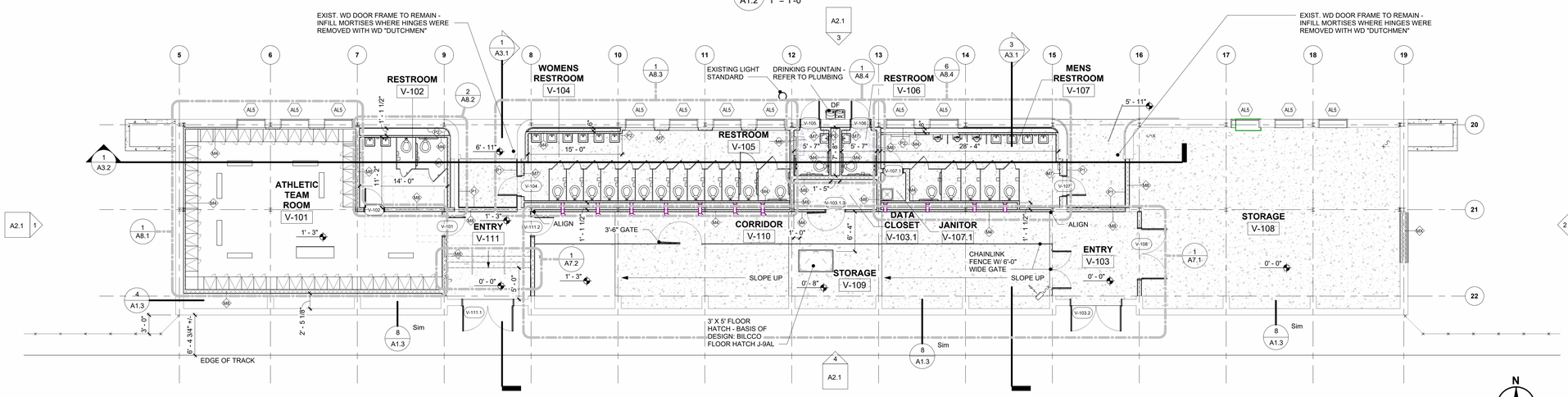
- P1 — THREE COAT STUCCO APPLIED TO METAL LATH ON NEW / EXISTING CMU
- P2 — 2" RIGID INSULATION.
- P3 — 3 5/8" METAL STUD, 5/8" GWB ONE SIDE.
- P4 — 3 5/8" METAL STUD, 5/8" GWB BOTH SIDES.
- P6 — 6" METAL STUD, 5/8" GWB ONE SIDE. 5/8" DENS BOARD, 2" RIGID INSULATION, 1" AIR GAP, 1" ALUMINUM METAL PANEL ONE SIDE.

CMU WALLS

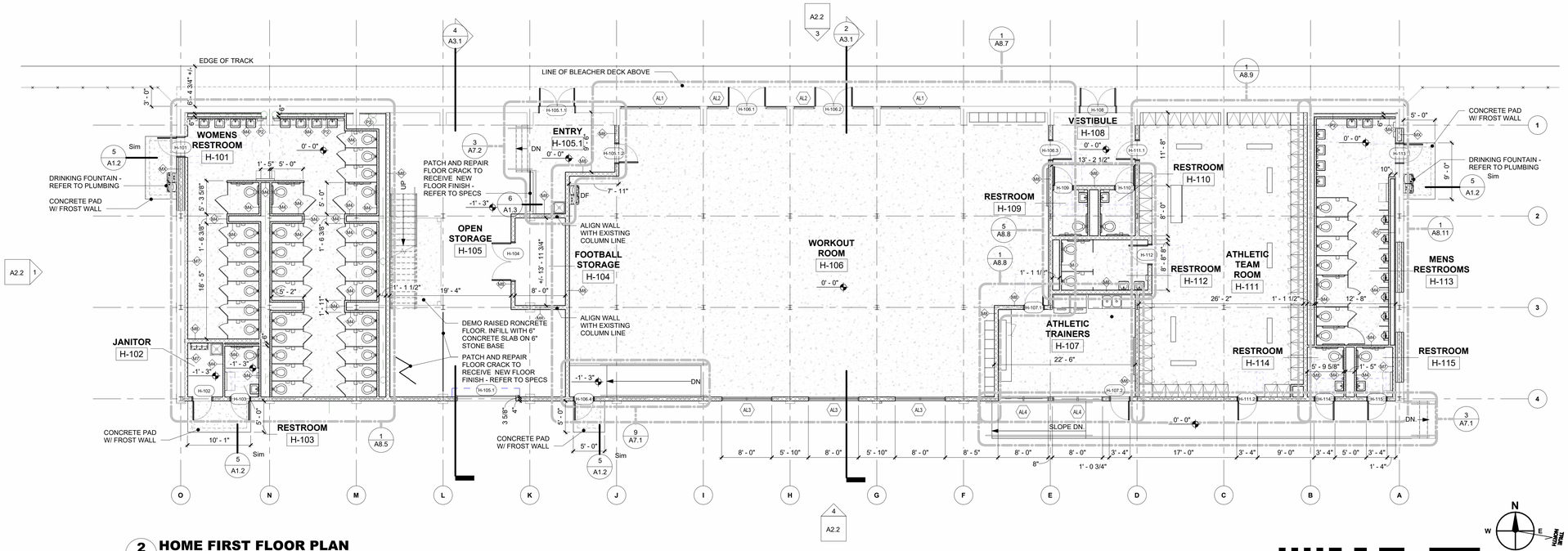
- M4 — 4" CMU
- M6 — 6" CMU
- M7 — 6" INSULATED CMU
- M8 — 8" CMU
- M9 — 8" INSULATED CMU

WALL INFILLS

- MX — CMU INFILL TO MATCH EXISTING WALL THICKNESS. MATCH EXISTING FIRE-RATING, WHERE APPLICABLE.



1 VISITOR FIRST FLOOR PLAN
A1.2 1/8" = 1'-0"



2 HOME FIRST FLOOR PLAN
A1.2 1/8" = 1'-0"

GENERAL NOTES

1. WORK SHALL INCLUDE ALL LABOR , ASSEMBLIES, AND FINISH WORK INCLUDING ALL PARTS AND MATERIALS NECESSARY TO MAKE A COMPLETE, IN-PLACE, PROPERLY WORKING FINISHED INSTALLATION.
2. CONTRACTOR SHALL FIELD MEASURE ALL DISTANCES AND CLEARANCES PRIOR TO COMMENCEMENT OF NEW WORK OR ORDERING OF MATERIALS. DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS OR SIZES. VERIFY ALL DIMENSIONS IN THE FIELD.
3. GC SHALL PROVIDE BLOCKING IN PARTITIONS AS REQUIRED FOR ALL ITEMS ATTACHED TO WALL INCLUDING CABINETRY AND TOILET ACCESSORIES. ALL ROUGH CARPENTRY, BLOCKING, AND MISCELLANEOUS WOOD FRAMING SHALL BE FIRE RETARDANT TREATED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REQUIREMENTS.
4. HEIGHT OF ELECTRICAL, DATA AND COMMUNICATION OUTLETS WHEN SURROUNDED BY OR ABUTTING MILLWORK SHALL BE CONFIRMED PRIOR TO INSTILLATION.
5. FLOOR MOUNTED OUTLET LOCATIONS MUST BE CONFIRMED WITH THE OWNER AND ARCHITECT BEFORE CORE DRILLING.
6. PLACEMENT OF WALL OR CEILING ACCESS PANELS SHALL BE REVIEWED WITH THE OWNER/ARCHITECT PRIOR TO INSTALLATION.
7. PROVIDE FIRE EXTINGUISHERS AS REQUIRED BY CODE.
8. PROTECT NEWLY INSTALLED FINISHES, MILLWORK, BUILT-INS, AND MATERIALS, AND ANY ITEMS (FURNITURE, ETC.) REQUIRING STORAGE.
9. UPON COMPLETION OF WORK, ALL FACILITIES SHALL BE IN FULL USE WITHOUT DEFECTS.
10. WHERE EXISTING WALLS, UTILITIES OR OTHER CONSTRUCTION IS REMOVED BELOW THE FLOOR SLAB: INFILL WITH CRUSHED STONE. PROVIDE AND SEAL VAPOR BARRIER, AND PLACE NEW 4" REINFORCED CONCRETE, UNO REFER TO DEMOLITION, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR COORDINATION OF AREAS OF CUT AND PATCH.
11. CONTRACTOR SHALL USE AND PROTECT THE EXISTING BUILDING AND EXISTING FINISHES SCHEDULED TO REMAIN IN A MANNER WHICH WILL NOT SOIL, DEFACE, OR DAMAGE THE EXISTING FACILITIES, FINISHES OR FIXTURES. PROVIDE PROTECTIVE MATERIALS AS NECESSARY.
12. REMOVE ALL CONSTRUCTION DEBRIS AS REQUIRED TO MAINTAIN A CLEAN ENVIRONMENT AND TO PREVENT THE POSSIBILITY OF ACCIDENT OR FIRE.
13. DOWNLIGHTS, SPRINKLER HEADS, SMOKE DETECTORS, AND EXIT SIGNS SHALL BE LOCATED IN THE CENTER OF THE CEILING TILE, UNO
14. GC SHALL PROVIDE TEMPORARY PARTITIONS FOR EACH PHASE OF WORK AND AS REQUIRED FOR OCCUPANT EXITING REQUIREMENTS. PARTITIONS SHALL BE IN ACCORDANCE WITH SPEC SECTION "TEMPORARY FACILITIES AND CONTROLS". REFER TO THE PHASING PLANS FOR INFORMATION CONCERNING PHASING AREAS AND DATES. TEMPORARY PARTITIONS MUST BE FLOOR TO CEILING AND SEALED FULL PERIMETER. PARTITIONS MUST BE PROVIDED WITH SOLID AND LOCKABLE DOORS.

GENERAL PARTITION NOTES

1. DIMENSIONS TAKEN TO FACE OF STUD OR FACE OF CMU, UNO
2. ALL NEW PARTITIONS SHALL BE PER PARTITION TYPE M8, UNO
3. PARTITIONS REQUIRING AN HOURLY RATING ARE INDICATED ON THE LIFE SAFETY PLANS, DESCRIBED IN THE PARTITION TYPES, THIS SHEET, AND ARE DEFINED BY A TESTING AGENCY DESIGN NUMBER. THE CONTRACTOR SHALL CONSTRUCT THESE PARTITIONS IN STRICT COMPLIANCE WITH THE TESTING AGENT DESCRIPTION REFERRED TO BY THE DESIGN NUMBER. PARTITION TYPE DRAWINGS SHOULD BE USED FOR REFERENCE AND INFORMATION PURPOSES ONLY. SHOULD CONFLICTS OCCUR BETWEEN THE PARTITION TYPE AND THE TESTING AGENT DESCRIPTION, THE STRINGENT REQUIREMENT SHALL APPLY.
4. REFER TO FINISH SCHEDULE FOR WALL FINISHES.
5. ALL INTERIOR PARTITIONS ARE TO EXTEND TIGHT TO THE FLOOR OR ROOF DECK ABOVE, UNO. PARTITIONS MUST BE SEALED TO ADJACENT CONSTRUCTION.
6. ALL DIMENSIONS MARKED "CLEAR" SHALL BE MAINTAINED.
7. NO PARTITIONS SHALL VARY MORE THAN 1/8" IN SURFACE PLANE IN 10 FEET IN ANY DIRECTION.
8. GALVANIZED STEEL MAY BE USED IN LIEU OF FIRE RETARDANT WOOD BLOCKING FOR WALL HUNG SHELVING, MILLWORK, AND HARDWARE. BACKING SHALL SPAN AT LEAST 3 STUDS.
9. PARTITION ASSEMBLIES AND BRACING SHALL BE INSTALLED AROUND ANY ABOVE-CEILING INTERFERENCES ENCOUNTERED SUCH AS DUCTS OR SPRINKLER LINES SO AS TO MAINTAIN THE INTEGRITY OF THE ASSEMBLY.
10. ALL INTERIOR WALLS IN OCCUPIED AREAS AND PUBLIC ARES TO A MINIMUM OF 8'-0" ABOVE FINISHED FLOOR MUST BE HIGH ABUSE-RESISTANT TYPE GYPSUM BOARD.
11. ALL EXPOSED CMU WALLS SHALL HAVE A BULLNOSE EDGE. RADIUSED CEILING EDGE TRACK SHALL BE PROVIDED ACCORDINGLY.
12. PROVIDE CONTROL JOINTS PER THE SPECIFICATION AT INTERIOR CMU WALLS FOR WALL LENGTHS GREATER THAN 20'. PROVIDE CONTROL JOINTS BETWEEN WALLS ON FLOOR SLABS AND WALLS ON FOOTINGS. REFER TO TYPICAL CONTROL JOINT DETAILS FOR ADDITIONAL CONTROL JOINT INFORMATION.

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CONSULTANT:

School District of Lancaster
Together We Can!

RENOVATIONS
J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DATE: 03/05/2025 DESCRIPTION: CONFORMED SET

PROJ # : 24-SDL-03 DRAWN BY : SAB

SHEET TITLE:
FIRST FLOOR PLANS

SHEET NUMBER:
A1.2

CONFORMED SET

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