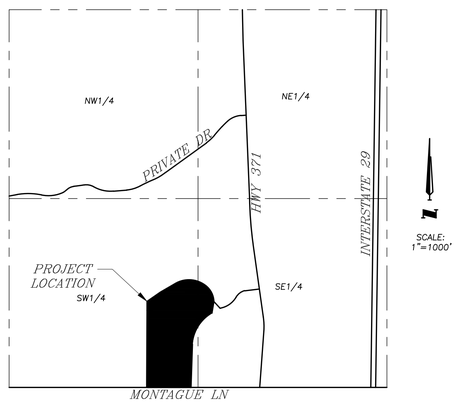
PLATTE RIDGE PARK - FOOTBALL COMPLEX IMPROVEMENTS

SITE PLANS

LOCATED IN
SECTION 14 TOWNSHIP 53N, RANGE 35W
PLATTE CITY, PLATTE COUNTY, MISSOURI



VICINITY MAP
SEC.14-53N-35W

SHEET LIST	
SHEET NUMBER	SHEET TITLE
C000	COVER SHEET
C001	GENERAL NOTES
C002	EXISTING CONDITIONS
C003	DEMOLITION PLAN
C100	EROSION CONTROL PLAN
C200	SITE PLAN
C201	DIMENSION PLAN
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C300	GRADING PLAN
C301	ENLARGED GRADING PLAN
C302	ENLARGED GRADING PLAN
C303	ENLARGED GRADING PLAN
C304	ENLARGED GRADING PLAN
C400	UTILITY PLAN
C401	STORM PLAN & PROFILES
C402	STORM PLAN & PROFILES
C403	DRAINAGE PLAN
C500	SANITARY SEWER PLAN & PROFILE
C501	SEWER DETAILS
C600	DETAILS
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C604	DETENTION DETAILS
G0.01	CODE REVIEW
A1.01	FIRST FLOOR PLAN
A2.01	ELEVATIONS / BUILDING SECTIONS
A3.01	WALL SECTIONS & DETAILS
A4.01	INTERIOR ELEVATIONS
A5.01	REFLECTED CEILING PLAN
A6.01	DOOR SCHEDULE
A7.01	FINISH SCHEDULE
MEP.0	COVER SHEET
MEP.1	SITE PLAN
M1.01	FLOOR PLAN - HVAC
M2.01	MECHANICAL - SCHEDULES & DETAILS
P1.01	FLOOR PLAN - PLUMBING
P2.01	PLUMBING - SCHEDULES
P3.01	PLUMBING - DETAILS
E1.01	FLOOR PLAN - LIGHTING
E1.02	FLOOR PLAN - POWER
E2.01	ELECTRICAL - SCHEDULES & DETAILS
S001	GENERAL NOTES
S100	FOUNDATION & ROOF FRAMING PLANS
S200	FOUNDATION SECTIONS & DETAILS
S201	SECTIONS & DETAILS

UTILITY CONTACT INFORMATION

PLATTE COUNTY PARKS
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PLATTE WATER AND SEWER DISTRICT #9
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UTILITY STATEMENT:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM UTILITY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. BEFORE YOU DIG,

CONTACT MISSOURI ONE-CALL: 811 OR 1-800-344-7483.

LEGAL DESCRIPTION

PLATTE RIDGE PARK

FLOODPLAIN NOTE

WE HAVE REVIEWED THE "FLOOD INSURANCE RATE MAP", COMMUNITY PANEL NO. 29165C0193D, EFFECTIVE APRIL 2, 2015, AS PUBLISHED BY FEDERAL EMERGENCY MANAGEMENT AGENCY. OUR REVIEW OF THIS MAP INDICATES THAT THIS PARCEL OF LAND DOES NOT LIE WITHIN A FLOODWAY.

NOTE:

SEE SHEET C001 FOR GENERAL NOTES.

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MISSOURI CERTIFICATE OF AUTHORITY NO. E-2006023253
EXPIRES: DECEMBER 31, 2022

REVISIONS

PROJECT INFO
210266-000

ENGINEER	DRAWN BY	CHECKED BY
	AVD	AVD

PLATTE RIDGE PARK
FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

COVER SHEET

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DRAWING NO.
C000

GENERAL NOTES:

1. ALL CONSTRUCTION OPERATIONS MUST BE ACCOMPLISHED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS FOR THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
2. ALL SITE WORK MUST ALSO COMPLY WITH APPLICABLE ENVIRONMENTAL REQUIREMENTS.
3. ALL ON-SITE CONSTRUCTION MUST BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
4. ALL CONSTRUCTION IN THE CITY R.O.W. AND/OR EASEMENTS SHALL BE IN ACCORDANCE WITH THE CITY OF PLATTE CITY, MISSOURI STANDARD SPECIFICATIONS, AS AMENDED.
5. WHEN REQUIRED, CONTRACTOR SHALL REMOVE PAVEMENT IN ACCORDANCE WITH THE MISSOURI DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, LATEST EDITION.
6. THE CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY COMPANIES PRIOR TO CONSTRUCTION ADJUSTMENTS OR RELOCATION OF EXISTING UTILITIES.
7. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENT DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO DRAINAGE STRUCTURES, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
8. THE CONTRACTOR SHALL PROTECT ALL BENCHMARKS AND PROPERTY MONUMENTATION AND SHALL REPLACE OR REPAIR, AT HIS/HER OWN EXPENSE. BENCHMARKS AND MONUMENTATION DISTURBED DURING CONSTRUCTION.
9. IF THE CONTRACTOR RELOCATES OR SETS NEW BENCHMARKS, THE VERTICAL ELEVATION OF THE BENCHMARKS SHALL BE SET WITHIN A TOLERANCE OF 0.010 FEET.
10. DIMENSIONS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.
11. ALL STRIPING, PAVEMENT MARKINGS, AND TRAFFIC SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, UNLESS OTHERWISE NOTED ON THE PLANS.
12. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH OCCUR DUE TO HIS/HER FAILURE TO LOCATE AND PRESERVE ANY AND ALL UTILITIES. CONTRACTOR SHALL LOCATE ALL UTILITIES, PUBLIC AND PRIVATE, PRIOR TO COMMENCING ANY WORK.
13. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED AND GRADED TO ORIGINAL GRADES UNLESS OTHERWISE NOTED.

DEMOLITION NOTES:

1. ALL WORK TO BE ACCOMPLISHED IN STRICT ACCORDANCE WITH ALL LOCAL ORDINANCES, CITY OR STATE.
2. WITHIN THE SUBJECT PROPERTY, THE INTENT IS TO HAVE A CLEAN, CLEAR SITE, FREE OF ALL EXISTING ITEMS NOTED TO BE REMOVED IN ORDER TO PERMIT THE CONSTRUCTION OF THE NEW PROJECT. DEMOLITION OF SOME EXISTING BUILDINGS ON-SITE WAS COMPLETED UNDER SEPARATE CONTRACT BY OTHERS.
3. FOR ALL STRUCTURES NOTED TO BE REMOVED - REMOVE ALL UTILITIES SHOWN OR NOT. CUT AND CAP ALL UNDERGROUND LINES AT THE PROPERTY LINE UNLESS OTHERWISE NOTED.
4. FOR ALL ITEMS NOTED TO BE REMOVED - REMOVE NOT ONLY THE ABOVE GROUND ELEMENTS, BUT ALL UNDERGROUND ELEMENTS AS WELL INCLUDING BUT NOT NECESSARILY LIMITED TO: FOUNDATIONS, GRAVEL FILLS, TREE ROOTS, OLD PIPE, ETC.
5. BACKFILL ALL EXCAVATIONS RESULTING FROM THE DEMOLITION WORK TO MEET THE REQUIREMENTS FOR FILL OUTLINED IN THE PROJECT SOILS REPORT.
6. ALL TREES OUTSIDE OF THE LIMITS OF DISTURBANCE, AS SHOWN ON SHEET C100, SHALL REMAIN, UNLESS OTHERWISE NOTED.

EROSION CONTROL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION, INSPECTION, AND MAINTENANCE OF EROSION CONTROL. CONTRACTOR SHALL PROVIDE A COPY OF THE EROSION CONTROL PLAN TO ALL CONTRACTORS AND UTILITIES PRIOR TO ANY WORK WITHIN THE DEVELOPMENT. CONTRACTOR MAY IMPART/CONVEY RESPONSIBILITY FOR INSPECTION, MAINTENANCE, AND REMEDIATION TO UTILITY COMPANIES FOR WORK UNDER THEIR CONTROL.
2. CONTRACTOR WILL BE RESPONSIBLE FOR FOR THE IMMEDIATE REMOVAL OF SOIL TRACKED ON PAVED STREETS.
3. INSPECTION OF EROSION CONTROL SHALL OCCUR AT LEAST ONCE EVERY 14 DAYS AND WITHIN 24 HOURS FOLLOWING A RAINFALL OF ONE HALF OF AN INCH OR GREATER AS MEASURED AT THE SITE. ANY DEFICIENCIES SHALL BE NOTED IN A REPORT OF THE INSPECTION AND CORRECTED WITHIN SEVEN CALENDAR DAYS OF THE INSPECTION. THE OWNER SHALL PROMPTLY NOTIFY THE SITE CONTRACTORS RESPONSIBLE FOR OPERATION AND MAINTENANCE OF EROSION CONTROL DEFICIENCIES.
4. MAINTENANCE OF EROSION CONTROL SHALL INCLUDE NECESSARY REPAIRS, REMOVAL OF SEDIMENT, AND ANY NECESSARY MODIFICATIONS.
5. SILT FENCE WILL BE INSTALLED AS SHOWN ON SHEET C100 WITH MODIFICATIONS (AS APPROVED BY THE OWNER) AS NECESSARY AT THE TIME OF INSTALLATION TO FIT EXISTING CONDITIONS.
6. TOPSOIL MUST BE STOCKPILED UPSTREAM OF SILT FENCE.
7. SILT FENCE SHALL BE RELOCATED IMMEDIATELY DOWNSTREAM OF ANY ADDITIONAL GRADING OR TRENCHING REQUIRED TO COMPLETE WORK SHOWN ON THESE PLANS.
8. SOIL STOCKPILES OR OTHER AREAS DISTURBED DURING THE COURSE OF CONSTRUCTION ACTIVITIES WHICH WILL REMAIN FOR PERIODS GREATER THAN THREE WEEKS SHALL BE STABILIZED BY SEEDING OR OTHER ACCEPTABLE MEANS.
9. FOR ALL DISTURBED AREAS, STABILIZATION OF DISTURBED AREAS MUST, AT A MINIMUM, BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING, OR OTHER SOIL DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. THE DISTURBED AREAS SHALL BE PROTECTED FROM EROSION BY MAINTAINING THE EROSION CONTROL, OR STABILIZING THE AREA WITH MULCH OR OTHER SIMILARLY EFFECTIVE SOIL STABILIZING METHOD. INITIAL STABILIZATION ACTIVITIES MUST BE COMPLETED WITHIN 21 DAYS.
10. UPON FINAL GRADING, ALL DISTURBED AREAS SHALL BE STABILIZED BY SEEDING AND MULCHING WITHIN TWO WEEKS. WHEN THIS OCCURS OUTSIDE THE STANDARD SPECIFICATION SEEDING DATES, SEED SHALL CONSIST OF TEMPORARY COVER CROP OF ANNUAL RYE OR WHEAT. ALL OTHER DISTURBED AREAS NOT EXPECTED TO BE SUBSEQUENTLY DISTURBED WITHIN THE FOLLOWING 6 WEEKS SHALL BE SEEDED WITH A TEMPORARY COVER CROP OF ANNUAL RYE OR WHEAT.
11. ALL EROSION CONTROL SHALL REMAIN IN PLACE UNTIL ALL UPSTREAM VEGETATIVE COVER IS ESTABLISHED UNLESS OTHERWISE APPROVED BY THE ENGINEER.

STORM AND SANITARY SEWER NOTES:

1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND/OR ORDER FORMS FOR ALL STORM SEWER STRUCTURES, INCLUDING NYLOPLAST DRAIN BASINS (OR APPROVED EQUAL), TO THE CIVIL ENGINEER FOR REVIEW PRIOR TO ORDERING.
2. ALL NYLOPLAST BASINS (OR APPROVED EQUAL) SHALL HAVE A SUMP INSERT.
3. ALL MANHOLE, CLEANOUT AND VALVE COVERS AND INLET GRATES SHALL HAVE A CONCRETE COLLAR PER THE UTILITY DETAIL SHEET.ALL NYLOPLAST AREA DRAINS SHALL HAVE A CIRCULAR CONCRETE COLLAR WHICH EXTENDS 6" FROM THE EDGE OF CASTING ON ALL SIDES.
4. CAST IRON COVERS FOR MANHOLES, WATER VALVES, CLEANOUTS, AND INLETS SHALL BE KEPT CLEAN OF CONCRETE SPILLAGE. THIS MAY BE ACHIEVED BY PLACING THE COVER IN A PLASTIC BAG DURING CONCRETE POUR.
5. ALL CURB INLETS SHALL HAVE LOCKING STYLE HIGH-FLOW VANE GRATE. THE RECEIVING SIDE OF THE GRATE SHALL BE ORIENTED TOWARD THE DIRECTION OF THE GREATER SURFACE FLOW.
6. ALL CURB INLETS SHALL BE FITTED WITH A CATCH-IT TEMPORARY SEDIMENT FILTER (OR APPROVED EQUAL) SIZED TO FIT THE INLET. FILTERS SHALL REMAIN IN PLACE UNTIL FINAL SITE STABILIZATION HAS BEEN ACHIEVED.
7. ALL HDPE STORM SEWER PIPE AND FITTINGS SHALL BE ADS N-12 SOIL TITE, RIGID, DUAL WALL WITH SMOOTH INTERIOR (OR APPROVED EQUAL), EXCEPT WHERE OTHERWISE NOTED. FLEXIBLE PIPE IS NOT ALLOWED.
8. ALL SANITARY SEWER PIPE SHALL BE PUSH-TOGETHER SDR26 PVC WITH GASKETED JOINTS. PIPE FOR CLEANOUTS SHALL BE AS SPECIFIED ON THE CLEANOUT DETAIL.
9. THE NORTHING AND EASTING COORDINATES ON THE PLANS INDICATE THE CENTER POINT OF A STRUCTURE OR CLEANOUT RISER, OR THE POINT ON A FITTING WHERE THE PIPE CENTERLINES INTERSECT. THE COORDINATE FOR A FLARED END SECTION IS AT THE MIDPOINT OF THE OUTFLOW END.
10. MINIMUM PIPE SLOPE SHALL BE 1.00% FOR ALL STORM AND SANITARY SEWERS, UNLESS NOTED OTHERWISE ON THE PLANS.
11. CONNECTION BETWEEN CAST IRON AND PVC SANITARY SEWER PIPES SHALL OCCUR DOWNSTREAM FROM THE CLEANOUT(S), APPROXIMATELY FIVE (5) FEET OUTSIDE THE BUILDING. CONNECTION SHALL BE MADE USING FERNCO STRONGBACK TYPE COUPLERS.
12. THE GRATES AND COVERS OF ALL NYLOPLAST STRUCTURES SHALL BE LOCKING TYPE.
13. CONTRACTOR SHALL FIELD-VERIFY THE LOCATION, DEPTH, SIZE AND MATERIAL OF EXISTING INTERNAL ROOF DRAIN PIPES AND EMERGENCY OVERFLOW PIPES AND SHALL NOTIFY THE CIVIL ENGINEER OF ANY DISCREPANCIES BETWEEN THE FIELD-VERIFIED INFORMATION AND THE INFORMATION CONTAINED ON THESE PLANS. PROPOSED PIPES WHICH CONNECT TO EXISTING INTERNAL ROOF DRAIN PIPES AND EMERGENCY OVERFLOW PIPES SHALL BE SDR35 PVC PIPE AND SHALL MATCH THE SIZE OF THE EXISTING PIPE. THE CONNECTION SHALL BE MADE WITH A FERNCO STRONGBACK COUPLER.
14. ALL EMERGENCY OVERFLOW PIPES SHALL DISCHARGE VIA A BUILDING MOUNTED LAMBS TONGUE OR BE ROUTED DIRECTLY TO A STRUCTURE AND SHALL NOT BE CONNECTED TO ANY DOWNSPOUT LEADERS OR PIPES THAT DRAIN ANY OTHER STORMWATER SOURCE.THE INTENT IS TO BE ABLE TO OPEN THE STRUCTURE AND VISUALLY OBSERVE IF STORMWATER IS FLOWING FROM THE EMERGENCY OVERFLOW PIPE AND KNOW THAT THE SOURCE OF ANY STORMWATER IS ONLY FROM THE EMERGENCY OVERFLOW AND NO OTHER SOURCE.

UTILITY NOTES:

1. CONTRACTOR TO BE RESPONSIBLE FOR VERIFYING & APPLYING FOR UTILITY SERVICE WITH EACH UTILITY PROVIDER PRIOR TO STARTING CONSTRUCTION. OWNER TO REIMBURSE GENERAL CONTRACTOR FOR ALL SANITARY SEWER, GAS AND WATER TAP FEES.
2. AN ATTEMPT HAS BEEN MADE TO LOCATE ALL UTILITY MANHOLES, METER COVERS, AND OTHER SUCH UTILITY ITEMS FROM SURVEY INFORMATION. UNDERGROUND UTILITY LINES AND STRUCTURES SHOWN ARE PER RECORDS MADE AVAILABLE BY THE OWNER, UTILITY COMPANY OR MUNICIPALITY, AND BY FIELD OBSERVATION WHERE POSSIBLE. ALL MUNICIPALITIES AND UTILITY COMPANIES SHOULD BE NOTIFIED BY CONTRACTOR FOR FIELD LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES, INCLUDING SERVICE LINES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT MISSOURI ONE CALL SYSTEM (811) OR (1-800-DIG-RITE) AS WELL AS THE CITY OF PLATTE CITY PUBLIC WORKS AND AT LEAST 48 HOURS BEFORE THE START OF WORK AND VERIFY ALL EXISTING UTILITY LOCATIONS.
3. TOPOGRAPHIC INFORMATION SHOWN IS BASED ON A FIELD SURVEY PERFORMED BY MCCLURE. IN 2022. IF THE CONTRACTOR FINDS A DISCREPANCY BETWEEN THE PLANS AND FIELD CONDITIONS, HE SHALL NOTIFY THE CIVIL ENGINEER IMMEDIATELY.
4. LOCATION OF UTILITIES IS NOT GUARANTEED AND THE CONTRACTOR SHALL USE EXTREME CAUTION DURING EXCAVATION, USING HAND EXCAVATION AS NECESSARY TO LOCATE AND PROTECT UTILITY LINES.
5. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF THE UTILITY COVERS WITHIN THE PROJECT LIMITS AND ADJUST THOSE ITEMS TO BE AT THE FINISHED GRADES IN EITHER THE SIDEWALK OR PAVEMENT AREAS WITHOUT ADDITIONAL COST TO THE OWNER. THE RELOCATION OF SUCH ITEMS SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
6. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL INFORMATION SHOWN ON PLANS.
7. REPAIR OF UTILITY LINES DAMAGED BY THE CONTRACTOR SHALL BE AT THE CONTRACTOR'S EXPENSE.
8. PROPER COORDINATION WITH THE RESPECTIVE UTILITY COMPANIES SHALL BE PERFORMED BY THE CONTRACTOR TO INSURE THAT ALL UTILITY COMPANY, LOCAL MUNICIPALITY AND LOCAL COUNTY STANDARDS FOR MATERIALS AND CONSTRUCTION METHODS ARE MET.
9. THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE WITH THE RESPECTIVE UTILITY COMPANIES FOR SERVICE INSTALLATIONS AND CONNECTIONS AND MAIN SERVICE RELOCATIONS. THE CONTRACTOR SHALL COORDINATE THE WORK TO BE PERFORMED BY THE VARIOUS UTILITY COMPANIES AND SECURE ALL PERMITS AND PAY ALL FEES FOR CONNECTIONS, DISCONNECTIONS, RELOCATIONS, INSPECTIONS AND DEMOLITION AS NECESSARY
10. CONTRACTOR SHALL PROVIDE SLEEVES UNDER FOOTINGS OR THROUGH FOUNDATIONS FOR UTILITY CONNECTIONS.
11. CONTRACTOR SHALL PROVIDE ALL BENDS, FITTINGS, ADAPTERS, ETC. AS REQUIRED FOR PIPE CONNECTIONS TO BUILDING STUB-OUTS.
12. ALL UTILITY CONSTRUCTION IS SUBJECT TO INSPECTION PRIOR TO APPROVAL FOR BACKFILL IN ACCORDANCE WITH THE APPROPRIATE UTILITY COMPANY, LOCAL MUNICIPALITY AND/OR LOCAL COUNTY REQUIREMENTS.
13. THE CONTRACTOR SHALL RESTORE ANY STRUCTURE, PIPE, PAVEMENT, CURBS, SIDEWALKS, APPROPRIATE LANDSCAPE AREAS, ETC. DISTURBED DURING CONSTRUCTION TO THE ORIGINAL CONDITION OR BETTER.
14. IN THE EVENT OF CONFLICT OF ANY REQUIREMENTS OR PROVISIONS OF THE WORK INDICATED HEREIN, TREANORHL SHALL BE NOTIFIED IMMEDIATELY FOR A DETERMINATION OF THE PLAN REQUIREMENTS AND INTENT THEREOF.
15. UTILITY CONNECTION DESIGN AS REFLECTED ON THE PLAN MAY CHANGE SUBJECT TO UTILITY COMPANY AND LOCAL AGENCY REVIEW.
16. SEE THE MECHANICAL, ELECTRICAL AND PLUMBING SITE PLAN(S) FOR ADDITIONAL SITE UTILITIES AND SITE LIGHTNING.

GRADING NOTES:

1. CONTRACTOR SHALL ENSURE THAT ALL AREA OF THE SITE MAINTAIN POSITIVE DRAINAGE AND THAT TRANSITIONS BETWEEN PROPOSED CURBS AND EXISTING CURBS AND BETWEEN DIFFERENT CURB AND GUTTER TYPES ALLOW FOR POSITIVE DRAINAGE AND WILL NOT CAUSE PONDING.
2. CONTRACTOR SHALL ENSURE FINAL GRADING ADJACENT TO SIDEWALKS AND PAVED AREAS THAT ABUT AREAS DESIGNATED FOR SOD ARE LOWER THAN THE TOP OF PAVING SUCH THAT INSTALLED SOD DOES NOT CREATE A DAM/OBSTRUCTION ALONG THE PAVING, RESULTING IN PONDING WATER ATOP PAVED SURFACES. ANY AREAS WITH PONDING WATER SHALL BE CORRECTED AT THE EXPENSE OF THE CONTRACTOR.

LANDSCAPE NOTES:

1. THIS LANDSCAPE PLAN IS DESIGNED TO BE IN CONFORMANCE WITH THE KANSAS CITY, MISSOURI UNIFIED DEVELOPMENT STANDARDS AND SHALL FUNCTION AS PART OF A COORDINATED DOCUMENT. THE LANDSCAPE ARCHITECT WILL COORDINATE CLOSELY WITH THE CITY OF KANSAS CITY, MISSOURI TO MAKE SURE FINAL DEVELOPMENT AND PERMIT PLANS ARE IN CONFORMANCE WITH THIS CODE.
2. FIELD VERIFY UTILITIES SHOWN ON PLANS PRIOR TO WORK COMMENCEMENT. INFORMATION SHOWN ON PLAN IS FROM AVAILABLE INFORMATION AND ALL LOCATIONS SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE TO UTILITIES MADE FROM CONSTRUCTION ACTIVITY. IMMEDIATELY NOTIFY PROJECT LANDSCAPE ARCHITECT AND ENGINEER IF DISCREPANCIES ARISE.
3. COMPLETE REQUIRED LANDSCAPING FOR THE ENTIRE SITE IN CONFORMANCE TO THE PLANS AND SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO: SEEDED AREAS, SODDED AREAS, NATIVE VEGETATION, SHRUB BEDS, PARKING LOT ISLANDS, AND SITE CLEAN-UP.
4. VERIFY QUANTITIES PRIOR TO COMMENCING WORK. REPORT DISCREPANCIES TO THE LANDSCAPE ARCHITECT. PLANT MATERIAL TO BE SPACED AS SHOWN, UNLESS OTHERWISE NOTED.
5. VEGETATION SUBSTITUTIONS SHALL BE APPROVED BY PROJECT LANDSCAPE ARCHITECT. SUBSTITUTIONS MADE WITHOUT WRITTEN APPROVAL WILL BE REPLACED WITH APPROVED SELECTIONS AT CONTRACTOR'S COST.
6. DISTURBED AREAS DUE TO CONSTRUCTION ACTIVITIES NOT IDENTIFIED ON THESE PLANS SHALL BE REPAIRED AND RESTORED TO ORIGINAL OR BETTER CONDITIONS AT CONTRACTOR'S COST. SOD SHALL BE PROVIDED FOR AREAS NOT DESIGNATED AS BEDS & PAVEMENT.
7. CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND ORDINANCES REGARDING LANDSCAPING. REFER TO SPECIFICATIONS FOR PLANT MATERIAL, SOILS, AND INSTALLATION METHODS.
8. PLANT MATERIAL SHALL COMPLY WITH ALL SIZING AND GRADING STANDARDS OF LATEST EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK".
9. INSTALL PLANT MATERIAL IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF NURSERYMEN LANDSCAPE STANDARDS.
10. INSTALL FINISHED GRADES OF SOD, LANDSCAPE BEDS, AND MULCH ½" TO 1" BELOW ABUTTING PAVEMENT SURFACES TO ALLOW UNINHIBITED DRAINAGE TO NON-PAVEMENT SURFACES.
11. MULCH TO 3" MIN. DEPTH WITH DARK BROWN, DOUBLE SHREDDED HARDWOOD MULCH FOR ALL TREE AND LANDSCAPE BEDS OR AS SPECIFIED. PINE STRAW, BARK MULCH, GORILLA HAIR, OR EQUIVALENT IS NOT AN ACCEPTABLE MULCH. ROCK MULCH TO 3" MIN. DEPTH PER PLANS OR AS SPECIFIED. ADD PREEN OR SNAPSHOT TO LANDSCAPE BEDS BEFORE AND AFTER MULCHING FROM MARCH 1 TO OCTOBER 1; IF WINTER INSTALLATION, RETURN NEXT SPRING & INSTALL PREEN/SNAPSHOT WITH NEW MULCH. INSTALL PLANTING BEDS AND ROCK BEDS WITH SPECIFIED WEED BARRIER FABRIC UNDERLAYMENT.
12. REMOVE ALL TWINE, WIRE, AND BURLAP FROM TREE AND SHRUB ROOT BALLS. REMOVE ALL PLASTIC WRAP, FABRIC ROPE, ROT PROOF WRAP, AND PLANT IDENTIFICATION TAGS.
13. STAKE ALL TREES WITH A MINIMUM OF TWO (2) STAKES. STAKES TO BE REMOVED AFTER ONE (1) YEAR OF INSTALLATION BY TENANT.
14. TREES SHALL NOT BE PLANTED CLOSER THAN EIGHT HORIZONTAL FEET OF UNDERGROUND UTILITIES UNLESS OTHERWISE NOTED OR PER PLANS. MODIFICATIONS TO TREE PLACEMENT SHALL BE COORDINATED WITH THE LANDSCAPE ARCHITECT AND CAN BE SUBJECT TO CITY REVIEW AND APPROVAL. CONTRACTOR IS RESPONSIBLE FOR UNAPPROVED RELOCATION(S) OR MODIFICATION(S) TO TREE LOCATIONS.
15. TREE TIES SHALL BE DEWITT 20" STRAPS FOR TREE STAKING. USE 10 GAUGE ELECTRIC WIRE. TREES AND STAKES SHALL BE STRAIGHT, PLUMB AND TAUT. TREE STAKES TO BE REMOVED WINTER OF YEAR 2 AFTER INSTALLATION.
16. PROVIDE NATURAL TOPSOIL THAT IS FERTILE, FRIABLE, WITHOUT MIXTURE OF SUBSOIL MATERIALS, AND OBTAINED FROM A WELL DRAINED, AVAILABLE SITE. IT SHALL NOT CONTAIN SUBSTANCES WHICH MAY BE HARMFUL TO PLANT GROWTH. TOPSOIL SHALL BE SCREENED AND FREE FROM CLAY, LUMPS, STONES, ROOTS, PLANTS, OR SIMILAR SUBSTANCES 1" OR MORE IN DIAMETER, DEBRIS, OR OTHER OBJECTS WHICH MIGHT BE A HINDRANCE TO PLANTING OPERATIONS. TOPSOIL SHALL CONTAIN AT LEAST 4-6% ORGANIC MATTER BY WEIGHT AND HAVE A PH RANGE OF 5.5 TO 7.0.
17. PLANT MATERIAL AND IRRIGATION SYSTEM TO BE GUARANTEED FOR ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AND ACCEPTANCE. PLANT MATERIALS SHALL BE A ONE-TIME-REPLACEMENT AND RECORDS KEPT BY THE LANDSCAPE CONTRACTOR FOR ALL REPLACEMENTS.
18. PLANT MATERIAL SHALL BE OF EXCELLENT QUALITY, FREE OF DISEASE & INFESTATION-TRUE TO TYPE, VARIETY, SIZE SPECIFIED, & FORM PER ANSI STANDARDS.
19. WATER-IN EACH PLANT IMMEDIATELY FOLLOWING INSTALLATION AND CONTINUE WATERING ROUTINE UNTIL SUBSTANTIAL PROJECT COMPLETION. CONTRACTOR IS REQUIRED TO COORDINATE WATERING REQUIREMENTS TO THE OWNER THEREAFTER.
20. DELEGATED DESIGN: IRRIGATE LANDSCAPED AND TURF AREAS SHALL BE WITH A PERMANENT, AUTOMATED SYSTEM. PROVIDE A DESIGN TO COVER THE NEW LANDSCAPE AREAS WITH HEAD TO HEAD COVERAGE. ONLY RAINBIRD OR HUNTER IRRIGATION PARTS & EQUIPMENT ARE TO BE USED. DRIP IS PERMITTED. CONTRACTOR TO PROVIDE SITE DRAWINGS DISPLAYING ALL PIPES, HEADS, VALVES, CONTROLLER, WIRE, AND SLEEVES. SLEEVES SHALL BE INSTALLED BY THE GENERAL CONTRACTOR AND COORDINATED WITH THE LANDSCAPE / IRRIGATION CONTRACTOR. 4" PVC SLEEVES WITH CAPS RECOMMENDED. PLACE SLEEVES AND MARK CLEARLY ABOVE GROUND FOR EASE OF FINDING. COORDINATE BACKFLOW, TAP & METER WITH THE GENERAL CONTRACTOR (GC) AND THE GC'S LICENSED PLUMBER. THE IRRIGATION DESIGN / SUBMITTALS SHALL BE SUBMITTED TO THE OWNER AND OWNER'S REPRESENTATIVE & LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO ORDERING OR INSTALLING ANY MATERIALS FOR THE IRRIGATION SYSTEM. GENERAL CONTRACTOR SHALL MAKE SURE THAT THE METER & BACKFLOW ARE COVERED IN THE BID, AS THE IRRIGATION CONTRACTOR IS LIKELY TO EXCLUDE THESE ITEMS. COORDINATE THESE ITEMS AND SLEEVES.

IRRIGATION NOTES:

1. DELEGATED DESIGN: CONTRACTOR SHALL ENGAGE A QUALIFIED DESIGN PROFESSIONAL TO PREPARE DESIGN DRAWING(S) FOR REVIEW AND APPROVAL BY THE OWNER AND ENGINEER/LANDSCAPE ARCHITECT. ANY EXISITNG IRRIGATION SYSTEM ON THE PROJECT SITE SHALL BE REVIEWED BY THE DESIGN PROFESSIONAL, INCLUDING ALL CONNECTIONS TO EXISTING WATER SOURCES AND EXPANDABILITY OF ANY EXISTING CONTROLLERS. CONTRACTOR SHALL MATCH EQUIPMENT TYPE TO ENSURE COMPATABILITY WITH ANY EXISTING SYSTEM.
2. IRRIGATION TO EXTEND FROM PROPERTY LINES TO BACK OF CITY SIDEWALKS AND/OR CURBS.
3. INSTALL 1-1/2" DIAMETER PVC PIPE SLEEVES WHERE IRRIGATION LINES CROSS OR ARE UNDER PAVEMENT.
4. BACKFLOW PREVENTION FOR IRRIGATION WILL BE INSTALLED INTERNALLY IN ROOM W001.

CONTRACTOR STAGING NOTES:

1. THE CONTRACTOR SHALL NOT STOCKPILE ANY SOILS OR OTHER STORED/STAGED MATERIALS ATOP OR WITHIN A 10' OFFSET TO EACH SIDE OF THE EXISTING STONE CULVERT THAT TRAVERSES THE PROJECT LIMITS.
2. ANY INTERNAL HAUL ROADS OR ACCESS PATHS THAT MAY CROSS THE EXISTING CITY STONE CULVERT WITHIN THE PROJECT LIMITS, SPECIALLY THOSE UTILIZING HEAVY CONSTRUCTION EQUIPMENT, SHALL INSTALL STEEL TRAFFIC PLATES OR OTHER ENGINEER APPROVED PROTECTION MEANS TO SPAN OVER THE CULVERT.
3. ANY STAGING LIMITS UTILIZED BY THE CONTRACTOR OUTSIDE OF THE ESTABLISHED PROJECT LIMITS SHALL BE MAINTAINED BY THE CONTRACTOR AND RESTORED TO PRE-CONSTRUCTION CONDITIONS OR BETTER.

LEGEND

	IRON PIN FOUND (AS NOTED)
	IRON PIN SET
	CONTROL POINT
	UTILITY EASEMENT
(M)	MEASURED
(P)	PLATTED
RD	EXISTING ROOF DRAIN
AC	EXISTING AIR CONDITIONING UNIT
	EXISTING GAS METER
	EXISTING STORMWATER MANHOLE
	EXISTING STORMWATER INLET
	EXISTING SANITARY SEWER MANHOLE
SCO	EXISTING SEWER CLEANOUT
	EXISTING POWER POLE
	EXISTING LIGHT POLE
	EXISTING UTILITY VAULT
	EXISTING UTILITY MARK
	EXISTING FIBER OPTIC MARKER
TRAN	EXISTING TRANSFORMER
BH	EXISTING BORE HOLE
WM	EXISTING WATER METER
WV	EXISTING WATER VALVE
FH	EXISTING FIRE HYDRANT
XGAS	EXISTING GAS LINE
X-W	EXISTING WATER LINE
XUGE	EXISTING UNDERGROUND ELECTRICAL LINE
XUGT	EXISTING UNDERGROUND TELEPHONE LINE
XOHW	EXISTING OVERHEAD ELECTRICAL LINE
XOHP	EXISTING OVERHEAD TELEVISION LINE (CABLE)
X-FO	EXISTING FIBER OPTIC CABLE
FW	NEW FIRE LINE
W	NEW WATERLINE
SAN	NEW SANITARY SEWER
STM	NEW STORM SEWER
WV	NEW WATER VALVE
FH	NEW FIRE HYDRANT
	DIRECTION OF STORMWATER FLOW
924	EXISTING 1' CONTOUR
925	EXISTING 5' CONTOUR
1042	PROPOSED 1' CONTOUR
1050	PROPOSED 5' CONTOUR
	PROPERTY LINE OF SUBJECT PROPERTY
T	NEW ELECTRICAL TRANSFORMER
G	NEW GAS METER

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MISSOURI CERTIFICATE OF AUTHORITY NO. E-2006023253
EXPIRES: DECEMBER 31, 2022

STATE OF MISSOURI
SHARON KIM FLANDERS
NUMBER PE-2021027855
PROFESSIONAL ENGINEER
4/18/2022

REVISIONS

PROJECT INFO
210266-000

ENGINEER	DRAWN BY	CHECKED BY
	AVD	AVD

PLATTE RIDGE PARK
FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

GENERAL NOTES

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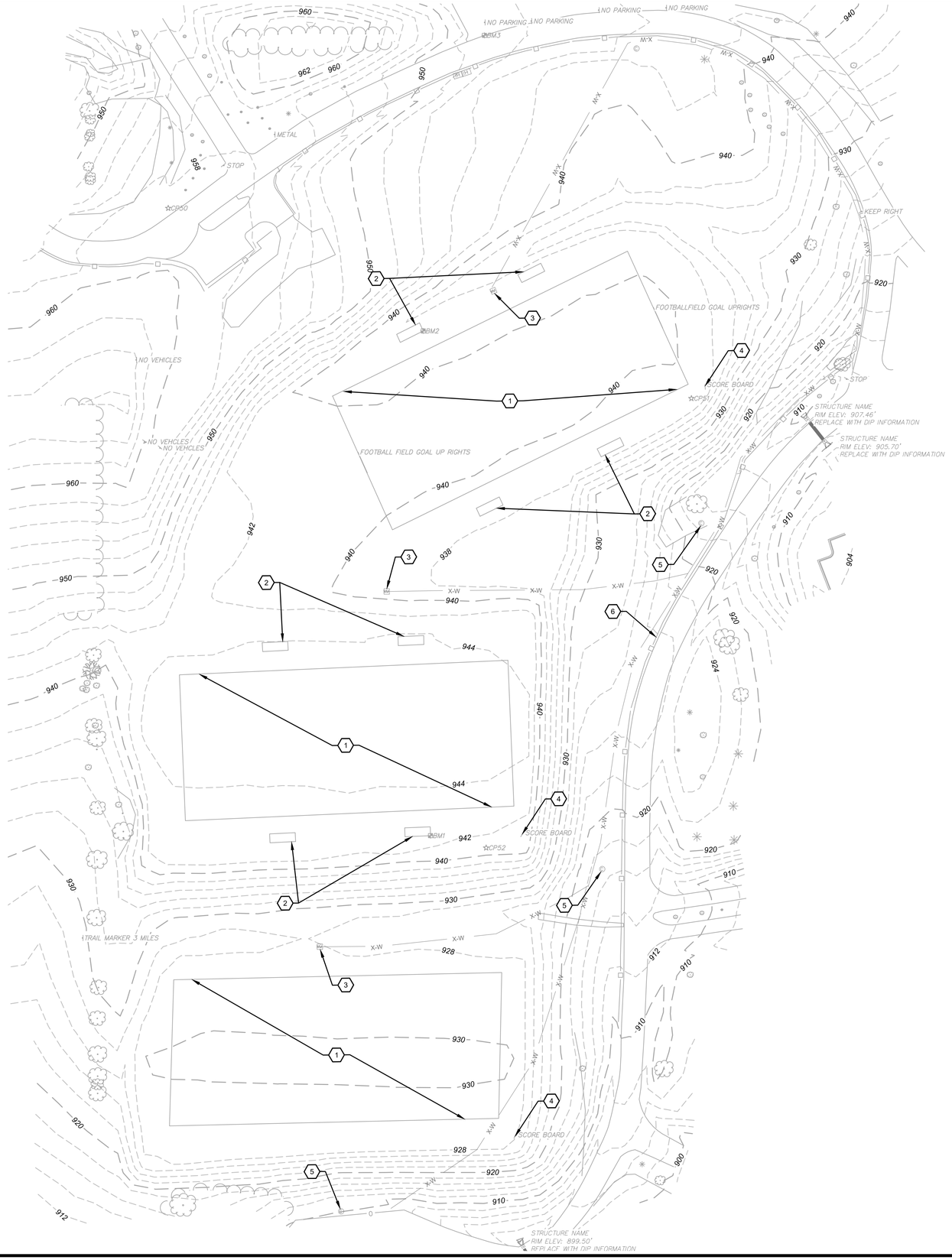
DRAWING NO.
C001

KEY NOTES

1. EXISTING FOOTBALL FIELD
2. EXISTING BLEACHERS
3. EXISTING WATER METER
4. EXISTING SCORE BOARD
5. EXISTING CLEANOUT
6. EXISTING FENCE



NOTE:
SEE SHEET C001 FOR GENERAL NOTES.

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	AVD	AVD

PLATTE RIDGE PARK
FOOTBALL COMPLEX IMPROVEMENTS
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EXISTING CONDITIONS

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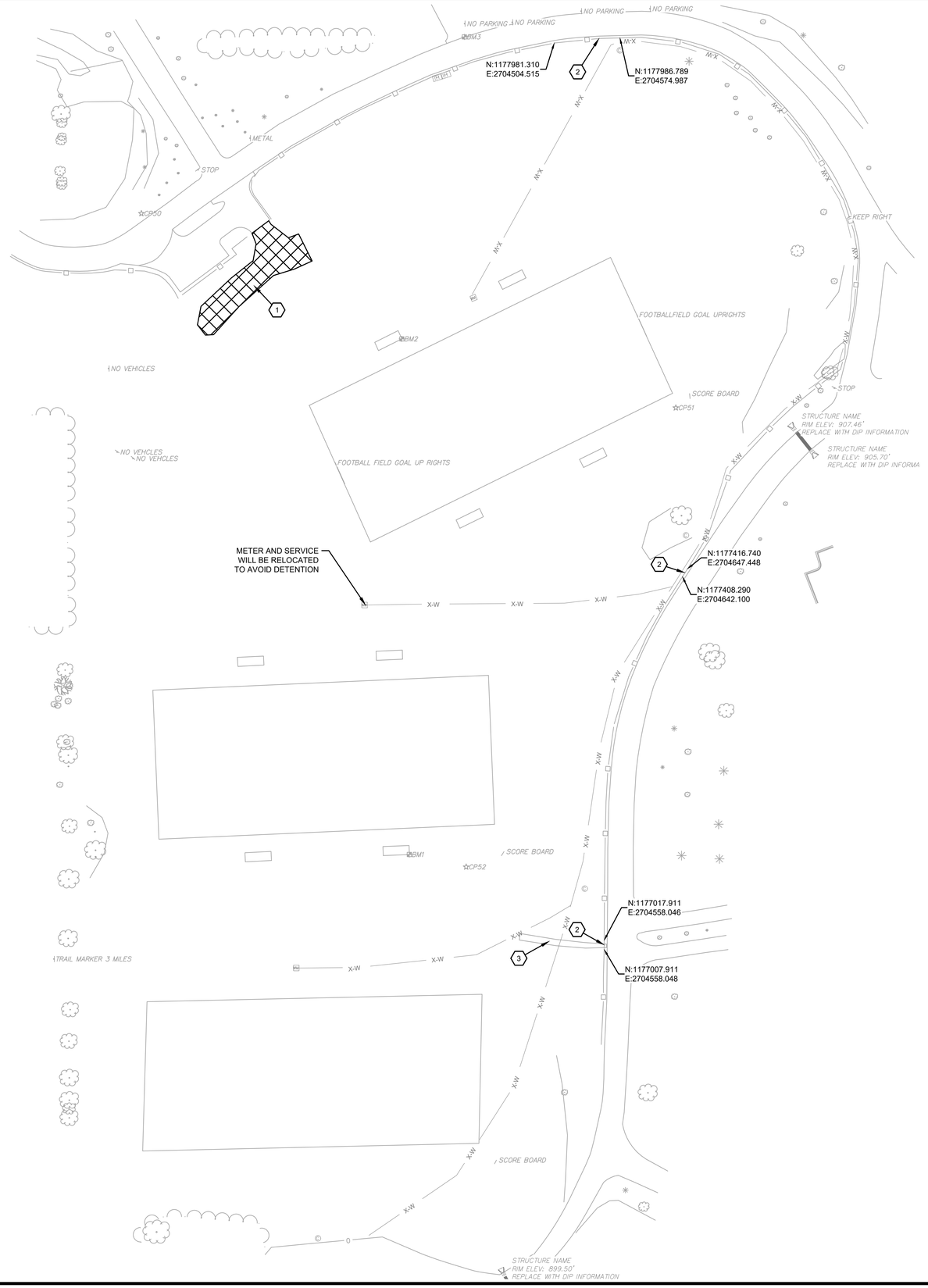
C002



KEY NOTES

1. REMOVE EXISTING GRAVEL PARKING AREA
2. REMOVE EXISTING FENCE
3. REMOVE EXISTING LANDSCAPING

DEMOLITION NOTES

1. REFER TO SHEET CXXX FOR DEMOLITION NOTES.
2. CONTRACTOR TO PROVIDE FENCING AND/OR BARRICADES TO KEEP THE PUBLIC OUT OF CONSTRUCTION AREA.

LEGEND

REMOVE PAVEMENT, CURB, AND SIDEWALK

STRUCTURE AND PAVING REMOVED BY OTHERS

· X · X · REMOVE EXISTING UNDERGROUND UTILITY

NOTE:

SEE SHEET C001 FOR GENERAL NOTES.

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17130 HIGHWAY 371, PLATTE CITY, MO 64079

DEMOLITION PLAN

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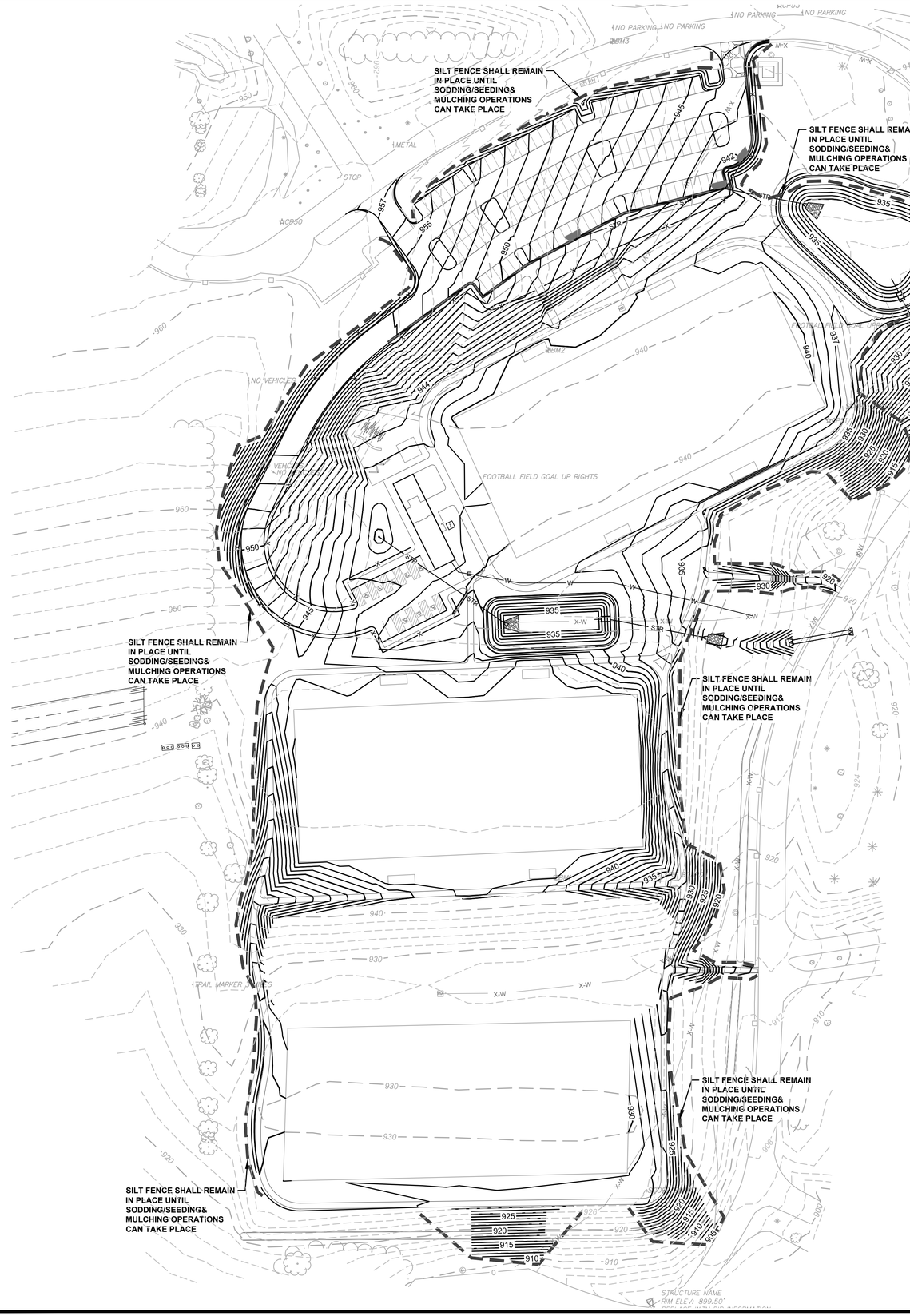
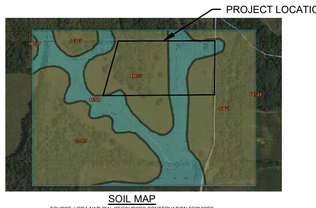
C003





SOIL MAP

SOURCE: USDA NATURAL RESOURCES CONSERVATION SERVICES

EROSION CONTROL NOTES:

1. PHASE 1 EROSION CONTROL SHALL CONSIST OF PERIMETER CONTROLS AND SHALL BE INSTALLED PRIOR TO SITE DISTURBANCE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). A COPY OF THE SWPPP SHALL BE AVAILABLE ON SITE AT ALL TIMES.
3. THE EROSION CONTROL FEATURES, NOTES AND SPECIFICATIONS IN THE SWPPP REPRESENT THE MINIMUM REQUIREMENTS ACCEPTABLE. LOCATIONS ARE TYPICAL AND MAY VARY ACCORDING TO CONTRACTORS STAGING AND LIMITS OF CONSTRUCTION. THE CONTRACTOR SHALL ADJUST, MODIFY AND ADD TO THIS PLAN AS NECESSARY TO CONTROL EROSION, SILTATION AND POLLUTION.
4. IT SHALL BE EACH CONTRACTOR'S RESPONSIBILITY TO CONTROL EROSION AND PREVENT POLLUTION FOR ALL WORK WHICH THEY ARE DIRECTLY INVOLVED.
5. EROSION CONTROL DEVICES SHOWN ON THIS PLAN SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION OR GRADING WORK.
6. WHEN POSSIBLE, WITHOUT ADVERSELY AFFECTING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL: MINIMIZE THE AMOUNT OF SURFACE AREA WHICH IS EXPOSED AT ONE TIME, LEAVE GRADED AREAS WITH A ROUGH TEXTURE, CONSTRUCT TEMPORARY TERRACES DURING GRADING OPERATIONS, AND LIMIT UNNECESSARY VEHICLE TRAFFIC IN GRADED AREAS.
7. THE SPILLAGE OF DEBRIS, INCLUDING THE TRACKING OF SOIL, OUTSIDE OF THE CONSTRUCTION LIMITS SHALL BE AVOIDED. THEREFORE THE CONTRACTOR SHALL PROVIDE STABILIZED DRIVES AT ALL ACCESS LOCATIONS AS NECESSARY AND SHALL REMOVE PROMPTLY ANY MATERIAL WHICH FINDS ITS WAY INTO THE PUBLIC RIGHT-OF WAY.
8. SILT FENCES SHALL BE PLACED ON A CONTOUR ELEVATION ALONG THE DOWNHILL SIDE AND FOR THE FULL EXTENT OF THE DISTURBED AREAS WITHIN THE CONSTRUCTION LIMITS. THE LAST FIVE FEET ON EACH END OF RUN OF SILT FENCE/STRAW BALE DIKE SHALL BE PLACED FACING UPHILL AT 90 DEGREES TO THE CONTOUR LINE.
9. THE CONTRACTOR SHALL INSPECT THEIR EROSION CONTROL DEVICES EVERY 7 DAYS AND WITHIN 24 HOURS OF A STORM OF 0.5 INCHES OR MORE IN DEPTH. THE CONTRACTOR SHALL REPAIR DAMAGE, CLEAN OUT SEDIMENT AND ADD ADDITIONAL CONTROL DEVICES AS NEEDED AS SOON AS PRACTICABLE AFTER INSPECTION. DEFICIENCIES MUST BE CORRECTED WITHIN 7 DAYS OF INSPECTION.
10. ALL AREAS UPON REACHING FINAL GRADE SHALL BE BROUGHT TO FINAL TREATMENT, AS SOON AS POSSIBLE. EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL ALL SOIL DISTURBING ACTIVITIES ARE COMPLETE AND A UNIFORM PERENNIAL COVER WITH A DENSITY OF 70 % (MINIMUM) IS ESTABLISHED.
11. WHERE GRADED AREAS DRAIN ONTO PAVED AREAS, SILT FENCE SHALL BE PLACED AT THE BACK OF CURB TO PREVENT SILT FROM ENTERING THE PAVED AREAS. WHEN THESE EROSION CONTROL DEVICES ARE NOT PLACED ON THE CONTOUR, THEN THEY SHALL HAVE INSTALLED AT 50' INTERVALS A 5' LENGTH PLACED AT 90 DEGREES TO THE MAIN LENGTH.
12. REMOVE CONCRETE WASH OUT AREA AFTER ALL CONCRETE WORK IS COMPLETE. AFTER REMOVAL OF THE CONCRETE WASHOUT AREA THE CONTRACTOR SHALL ESTABLISH PERMANENT GROUND COVER (SEED) IN THE AREA WHERE THE WASH OUT WAS LOCATED.
13. ALL STORM SEWER INLETS SHALL HAVE INLET PROTECTION AFTER STORM SEWER CONSTRUCTION. SEE SHEET C401 AND C402 FOR NEW INLET LOCATIONS.

NOTE:
SEE SHEET C001 FOR GENERAL NOTES.

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EROSION CONTROL LEGEND

- SILT FENCE — SEE APWA DETAIL ESC-03
- CURB INLET PROTECTION — SEE APWA DETAIL ESC-06
- CONSTRUCTION ENTRANCE — SEE APWA DETAIL ESC-01
- 924 — EXISTING 1' CONTOUR
- 925 — EXISTING 5' CONTOUR
- 929 — PROPOSED 1' CONTOUR
- 930 — PROPOSED 5' CONTOUR
- ROCK DITCH CHECK DAM. SEE DETAIL SHEET C601.
- GRAVEL CONSTRUCTION SITE ENTRANCE. SEE DETAIL SHEET C601.
- CONCRETE WASHOUT AREA. SEE DETAIL SHEET C601.

GENERAL NOTES

1. THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO ALL APPLICABLE STANDARDS AND SPECIFICATIONS OF THE PUBLIC WORKS DEPARTMENT OF THE CITY OF KANSAS CITY, MISSOURI, IN CURRENT USAGE AND ALL SUPPLEMENTS THERE TO.
2. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS, BONDS, AND INSURANCE REQUIRED BY THE CITY.
3. THE IMPROVEMENTS SHOWN ON THIS PLAN ARE PUBLIC IMPROVEMENTS, COORDINATE WITH CITY FOR REQUIRED PERMITS, BONDS AND INSURANCE.
4. ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE ENGINEERING DEPARTMENT OF THE CITY OF KANSAS CITY, MISSOURI.
5. THE UTILITY LOCATIONS SHOWN ON THESE PLANS ARE TAKEN FROM UTILITY COMPANY RECORDS AND ARE APPROXIMATE ONLY. THEY DO NOT CONSTITUTE ACTUAL FIELD LOCATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.
6. THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF THE SENATE BILL NUMBER 583, 78TH GENERAL ASSEMBLY OF THE STATE OF MISSOURI. THE BILL REQUIRES THAT ANY PERSON OF FIRM DOING EXCAVATION ON PUBLIC RIGHT-OF-WAY DO SO ONLY AFTER GIVING NOTICE TO, AND OBTAINING INFORMATION FROM, UTILITY COMPANIES, STATE LAW REQUIRES 48 HOURS ADVANCE NOTICE. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL NOTIFY ALL THOSE COMPANIES WHICH HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PERFORMED. THE CONTRACTOR MAY ALSO UTILIZE THE FOLLOWING TOLL FREE PHONE NUMBER IS APPLICABLE ANYWHERE WITHIN THE STATE OF MISSOURI.
7. THE DEVELOPER/OWNER SHALL CONTROL EROSION AND SILTATION DURING ALL PHASES OF CONSTRUCTION, AND SHALL KEEP THE STREETS CLEAN OF MUD AND DEBRIS.
8. ALL EXCESS MATERIAL SHALL BE REMOVED LEGALLY FROM SITE AND DISPOSED OF OFF SITE.
9. TRAFFIC CONTROL AND MAINTENANCE OF TRAFFIC DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PUBLIC WORKS DEPARTMENT.
10. EROSION CONTROL MEASURES SHALL BE PROVIDED AT ALL LOCATIONS WHERE DRAINAGE IS LEAVING THE PROJECT SITE. THE EROSION CONTROL PLAN SHOWS MINIMUM EROSION CONTROL MEASURES TO BE PROVIDED. ADDITIONAL SITE SPECIFIC MEASURES MAY BE NECESSARY AND SHALL BE PROVIDED BY THE DEVELOPER / OWNER, AT THE CONTRACTOR'S EXPENSE.
11. ANY EXISTING OR NEW STORM SEWER INLETS IN USE DURING DEMOLITION, GRADING OR CONSTRUCTION SHALL HAVE INLET PROTECTION AS SPECIFIED.

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EXPIRES: DECEMBER 31, 2022

STATE OF MISSOURI
SHARON KIM FLANDERS
NUMBER PE-2021027855
PROFESSIONAL ENGINEER
4/18/2022

REVISIONS

PROJECT INFO
210266-000

ENGINEER	DRAWN BY	CHECKED BY
	AVD	AVD

PLATTE RIDGE PARK
FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

EROSION CONTROL PLAN

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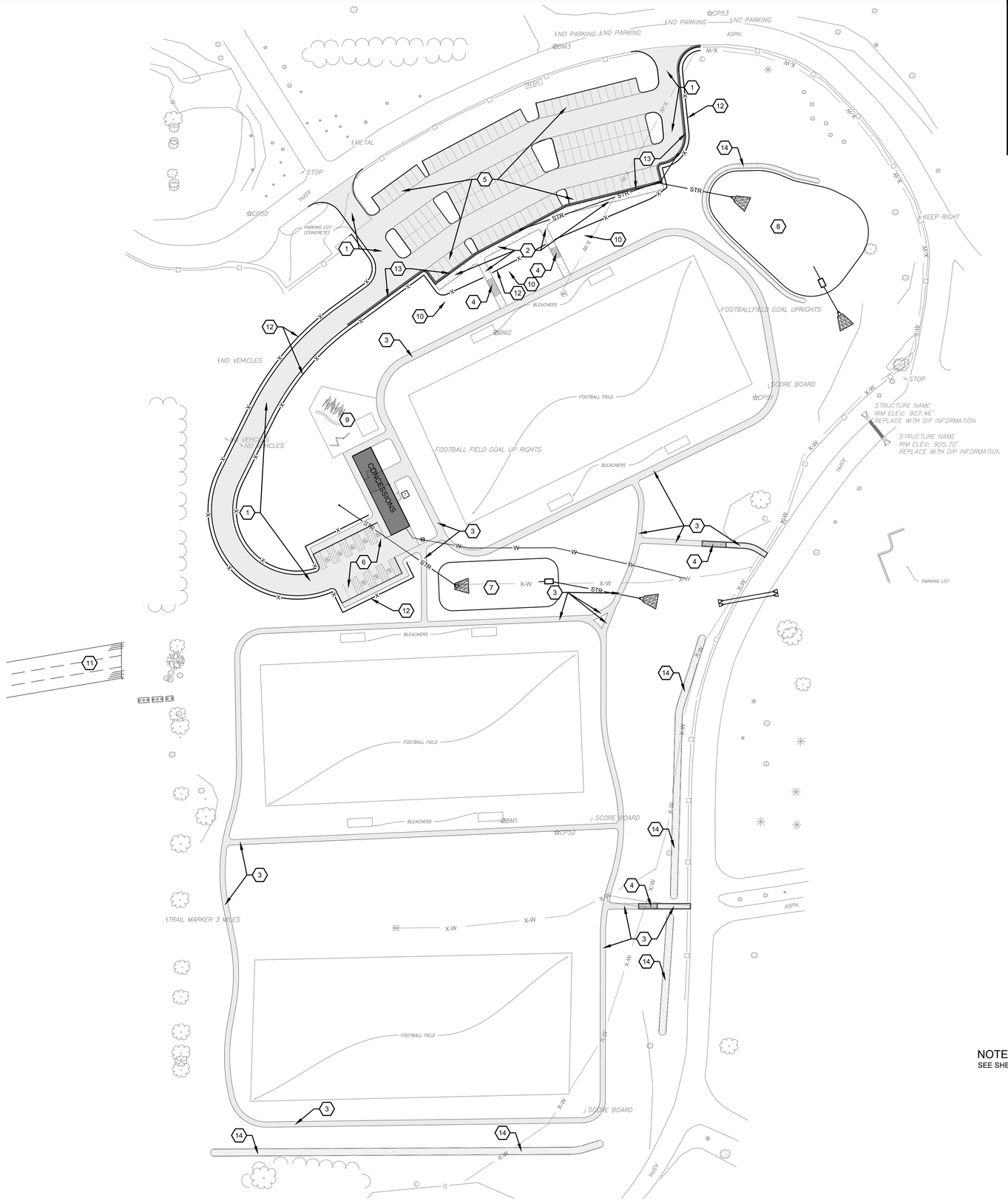
DRAWING NO.
C100

LEGEND

- SIDEWALK/ STANDARD DUTY CONCRETE PAVEMENT
- ASPHALT PAVEMENT
- NATIVE GRASSES/PLANTINGS
- PROPOSED BUILDING

KEY NOTES

1. PROPOSED ASPHALT PAVEMENT
2. PROPOSED CONCRETE SIDEWALK
3. PROPOSED 6' ASPHALT TRAIL
4. PROPOSED STAIRS
5. PROPOSED PARKING AREA
6. PROPOSED ADA PARKING
7. PROPOSED DETENTION BASIN A-1
8. PROPOSED DETENTION BASIN A-2
9. FUTURE PLAYGROUND AREA (TO BE INSTALLED BY OTHERS)
10. PROPOSED RETAINING WALL
11. PROPOSED SEPTIC FIELD (SEE SHEET C500)
12. PROPOSED FENCE - TO MATCH EXISTING, POSTS 8' O.C., 3 ROUND RAIL FENCE
13. PROPOSED CURB AND GUTTER (CG-1)
14. PROPOSED NATIVE PLANTING AREA



NOTE:
SEE SHEET C001 FOR GENERAL NOTES.

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PROFESSIONAL ENGINEER
4/18/2022

REVISIONS
ISSUE DATE: 4/18/2022

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PLATTE RIDGE PARK
FOOTBALL COMPLEX IMPROVEMENTS
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SITE PLAN

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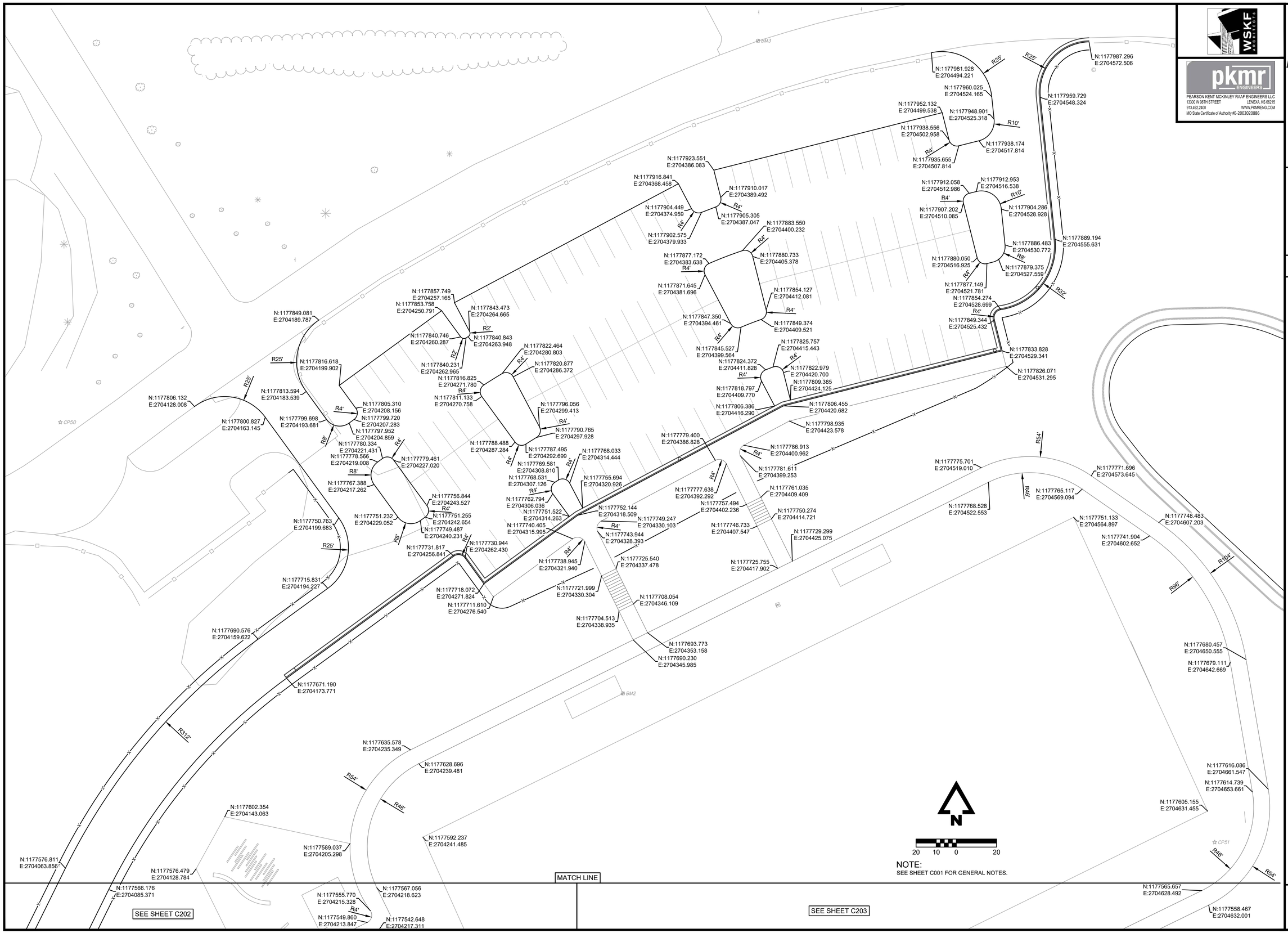

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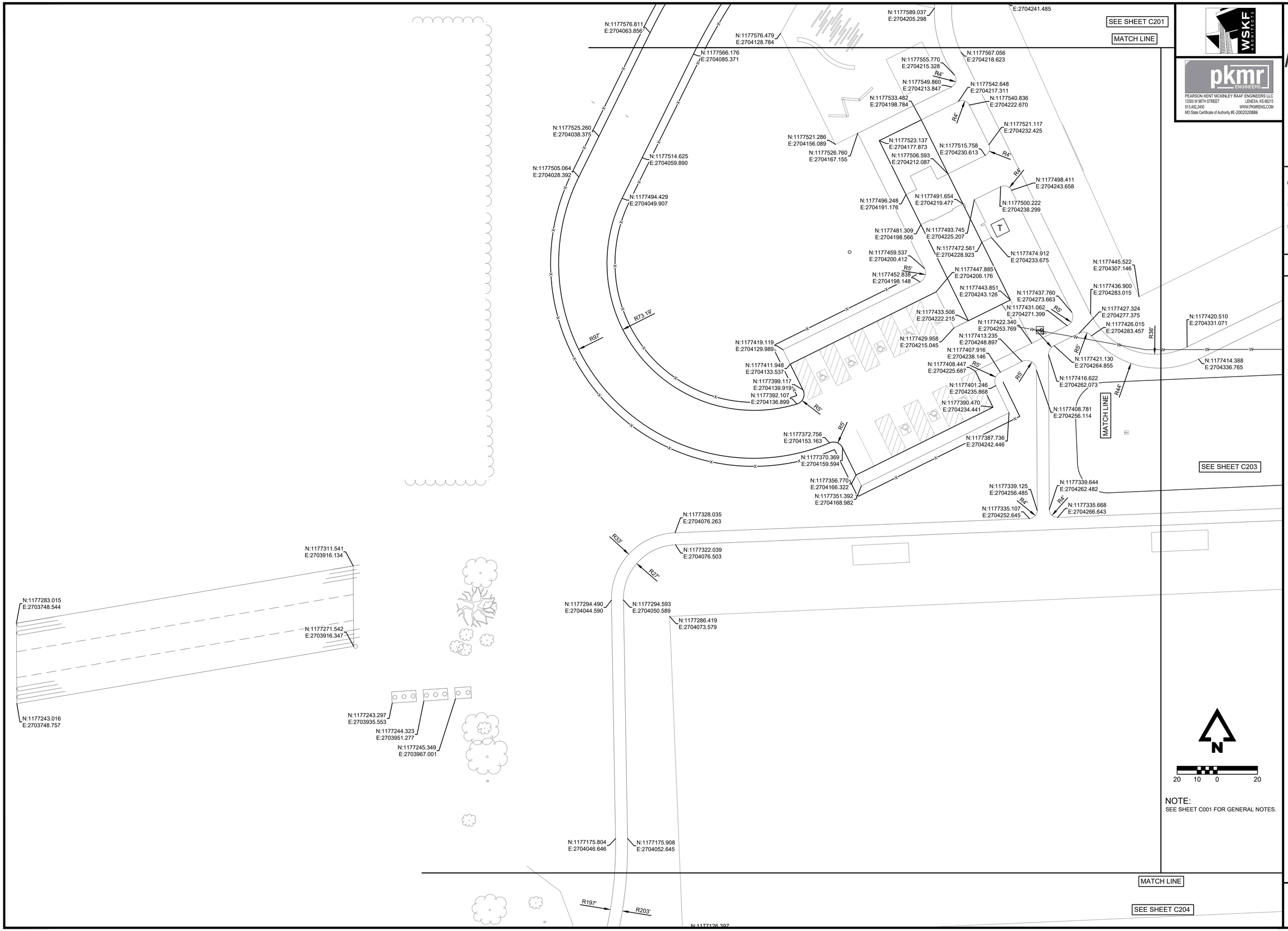
	AVD	AVD

PLATTE RIDGE PARK FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

DIMENSION PLAN

P:\210266-000\06-DRAWINGS\CIVIL\CONSTRUCTION DOCS\210266-000 DIMN.DWG

DRAWING NO.
C201



NOTE:
SEE SHEET C001 FOR GENERAL NOTES.

WSKF ARCHITECTS

pkmr ENGINEERS
PEARSON KENT MCKINLEY RAAF ENGINEERS LLC
1330 W 98TH STREET LENEXA, KS 66215
913.492.2400 WWW.PKMRENG.COM
MO State Certificate of Authority #E-2002020886

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MISSOURI CERTIFICATE OF AUTHORITY NO. E-2006023253
EXPIRES: DECEMBER 31, 2022

STATE OF MISSOURI
SHARON KIM FLANDERS
NUMBER PE-2021027855
PROFESSIONAL ENGINEER
4/18/2022

REVISIONS

PROJECT INFO
210266-000

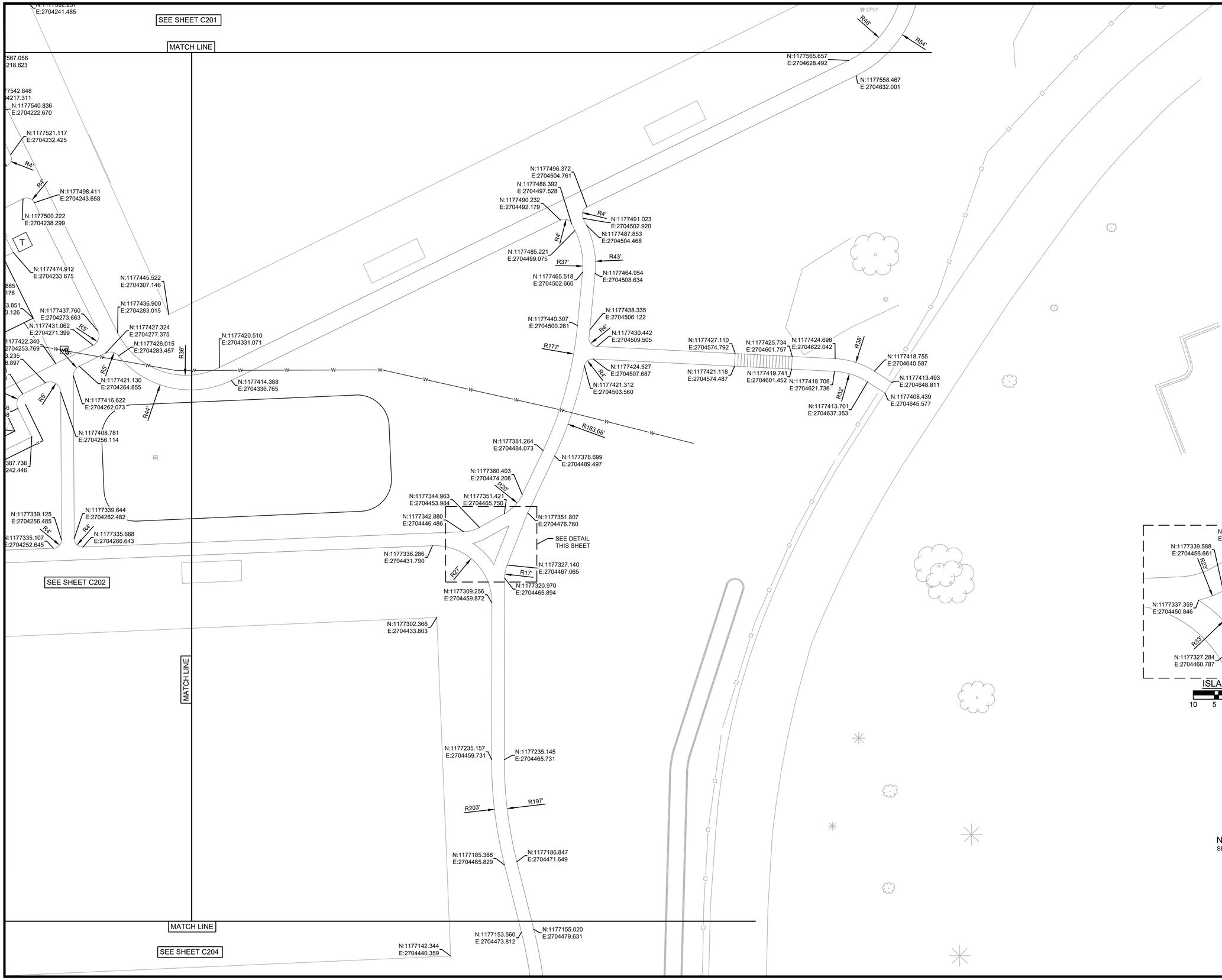
ENGINEER	DRAWN BY	CHECKED BY
	AVD	AVD

PLATTE RIDGE PARK FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

DIMENSION PLAN

P:\210266-000\06-DRAWINGS\CIVIL\CONSTRUCTION DOCS\210266-000 DIMN.DWG

DRAWING NO.
C202



WSKF ARCHITECT

pkmr ENGINEERS

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STATE OF MISSOURI
SHARON KIM FLANDERS
NUMBER PE-2021027855
PROFESSIONAL ENGINEER
4/18/2022

REVISIONS

PROJECT INFO
210266-000

ENGINEER	DRAWN BY	CHECKED BY
	AVD	AVD

PLATTE RIDGE PARK
FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

DIMENSION PLAN

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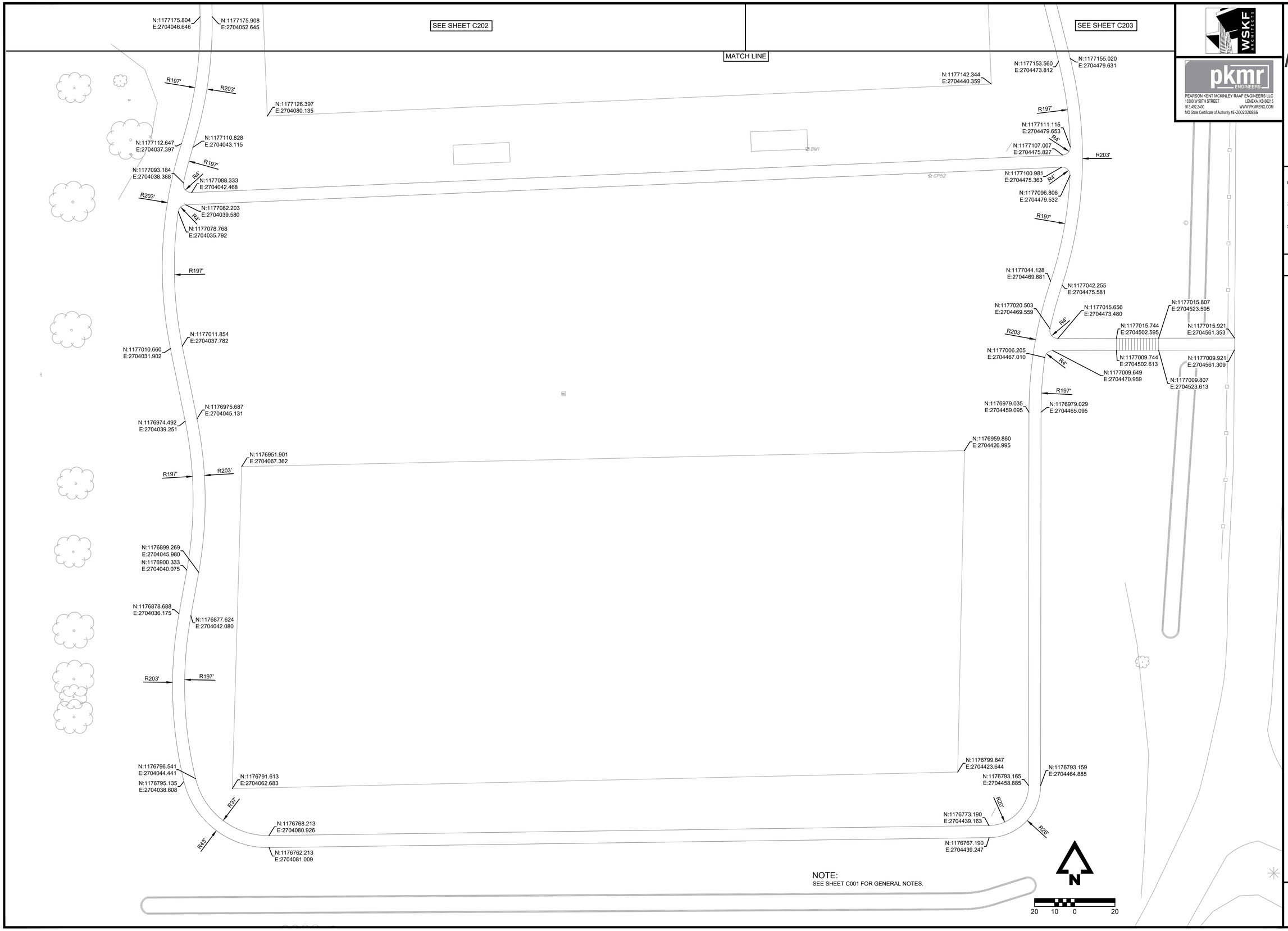
DRAWING NO.
C203



NOTE:
SEE SHEET C001 FOR GENERAL NOTES.

WSKF ARCHITECT

pkmr ENGINEERS
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STATE OF MISSOURI
SHARON KIM FLANDERS
NUMBER PE-2021027855
PROFESSIONAL ENGINEER
4/18/2022

REVISIONS

PROJECT INFO
210266-000

ENGINEER	DRAWN BY	CHECKED BY
	AVD	AVD

PLATTE RIDGE PARK FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

DIMENSION PLAN

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DRAWING NO.
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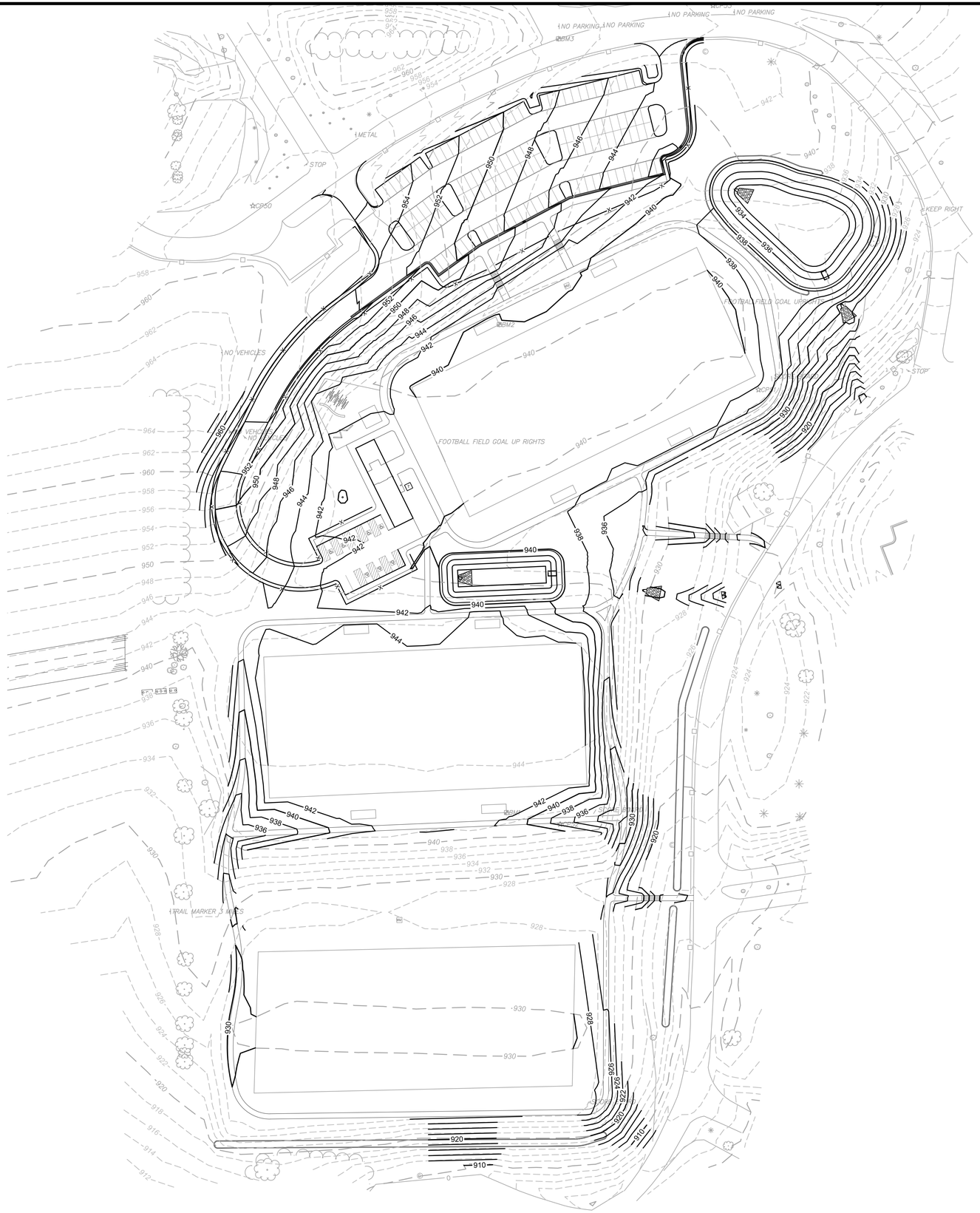

NOTE:
SEE SHEET C001 FOR GENERAL NOTES.

GRADING LEGEND:

924	EXISTING 2' CONTOUR
925	EXISTING 10' CONTOUR
1042	PROPOSED 2' CONTOUR
1050	PROPOSED 10' CONTOUR

N

60 30 0 60

WSKF ARCHITECTS

pkmr ENGINEERS

PEARSON KENT MCKINLEY RAAF ENGINEERS LLC
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STATE OF MISSOURI
SHARON KIM FLANDERS
NUMBER PE-2021027855
PROFESSIONAL ENGINEER
4/18/2022

REVISIONS

PROJECT INFO
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ENGINEER	DRAWN BY	CHECKED BY
	AVD	AVD

PLATTE RIDGE PARK
FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

GRADING PLAN

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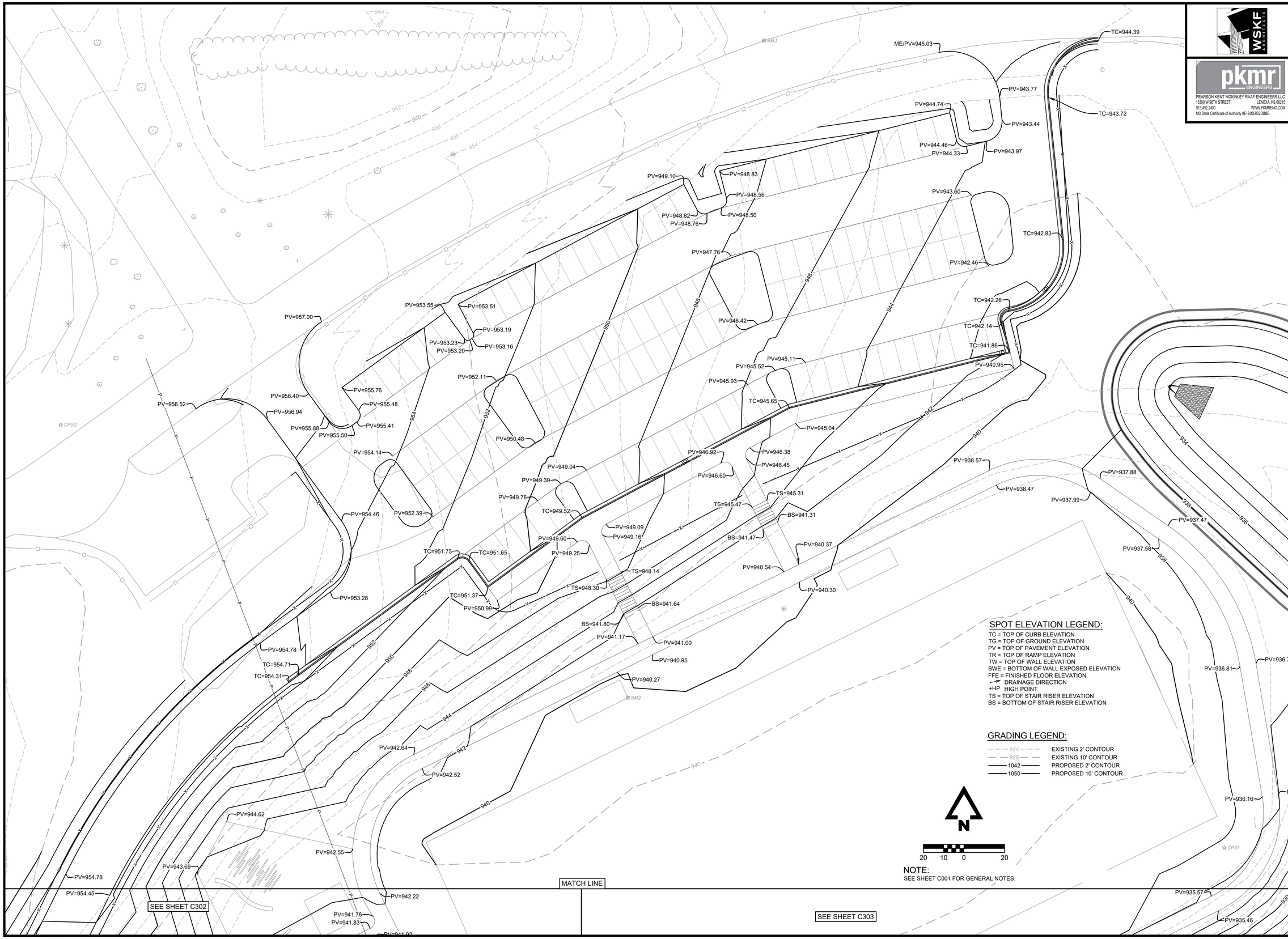
DRAWING NO.
C300



SPOT ELEVATION LEGEND:

TC = TOP OF CURB ELEVATION
TG = TOP OF GROUND ELEVATION
PV = TOP OF PAVEMENT ELEVATION
TR = TOP OF RAMP ELEVATION
TW = TOP OF WALL ELEVATION
BWE = BOTTOM OF WALL EXPOSED ELEVATION
FFE = FINISHED FLOOR ELEVATION
DRAINAGE DIRECTION
+HP HIGH POINT
TS = TOP OF STAIR RISER ELEVATION
BS = BOTTOM OF STAIR RISER ELEVATION

GRADING LEGEND:

924 EXISTING 2' CONTOUR
925 EXISTING 10' CONTOUR
1042 PROPOSED 2' CONTOUR
1050 PROPOSED 10' CONTOUR

NOTE:
SEE SHEET C001 FOR GENERAL NOTES.

WSKF ARCHITECTS

pkmr ENGINEERS
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STATE OF MISSOURI
SHARON KIM FLANDERS
NUMBER PE-2021027855
PROFESSIONAL ENGINEER
4/18/2022

REVISIONS

PROJECT INFO
210266-000

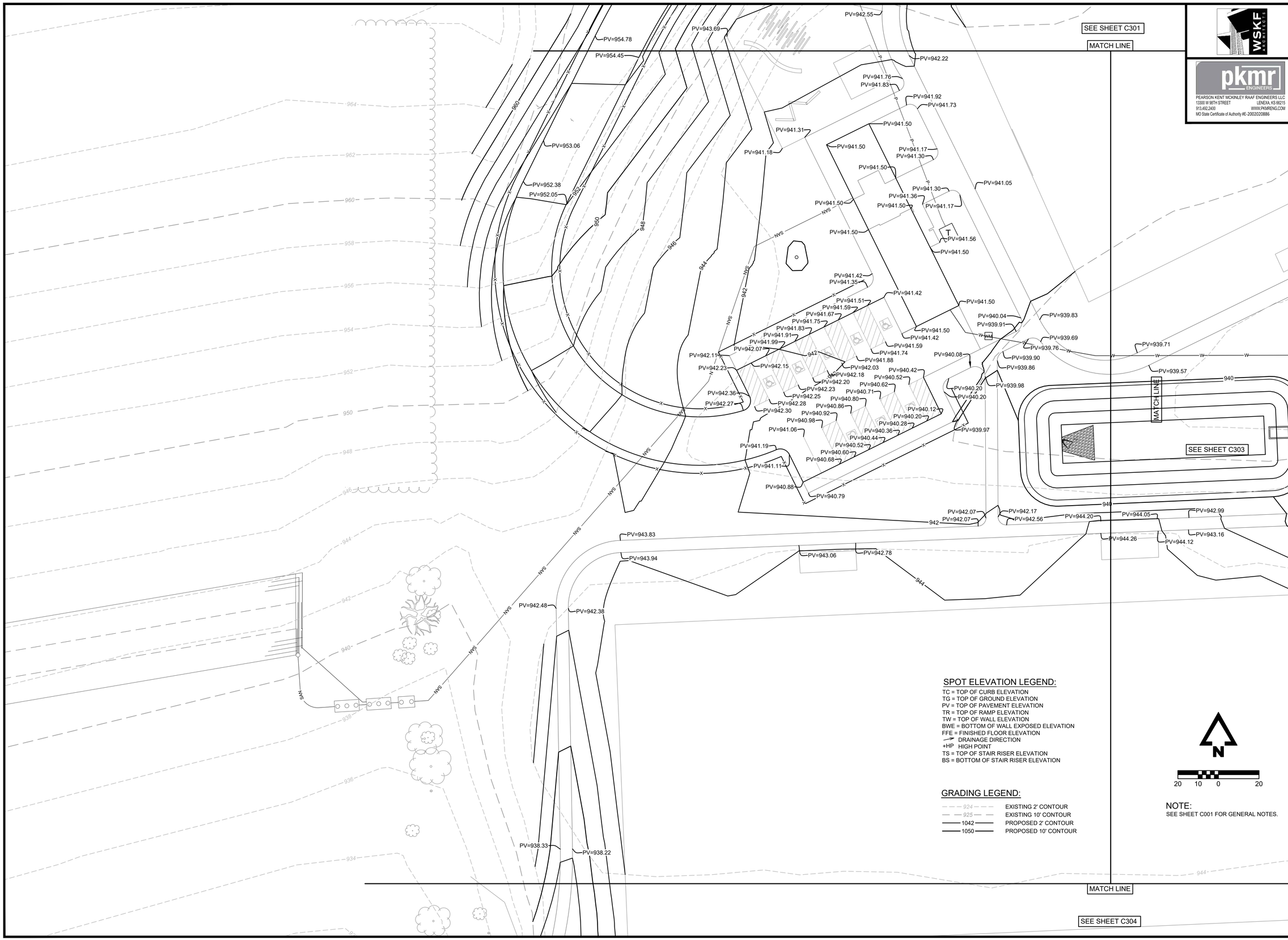
ENGINEER	DRAWN BY	CHECKED BY
	AVD	AVD

PLATTE RIDGE PARK FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

ENLARGED GRADING PLAN

P:\210266-000\06-DRAWINGS\CIVIL\CONSTRUCTION DOCS\210266-000 EGRAD.DWG

DRAWING NO.
C301



SPOT ELEVATION LEGEND:

TC = TOP OF CURB ELEVATION
TG = TOP OF GROUND ELEVATION
PV = TOP OF PAVEMENT ELEVATION
TR = TOP OF RAMP ELEVATION
TW = TOP OF WALL ELEVATION
BWE = BOTTOM OF WALL EXPOSED ELEVATION
FFE = FINISHED FLOOR ELEVATION
DRAINAGE DIRECTION
+HP HIGH POINT
TS = TOP OF STAIR RISER ELEVATION
BS = BOTTOM OF STAIR RISER ELEVATION

GRADING LEGEND:

924 EXISTING 2' CONTOUR
925 EXISTING 10' CONTOUR
1042 PROPOSED 2' CONTOUR
1050 PROPOSED 10' CONTOUR

N

20 10 0 20

NOTE:
SEE SHEET C001 FOR GENERAL NOTES.

WSKF ARCHITECTS

pkmr ENGINEERS
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STATE OF MISSOURI
SHARON KIM FLANDERS
NUMBER PE-2021027855
PROFESSIONAL ENGINEER
4/18/2022

REVISIONS

PROJECT INFO
210266-000

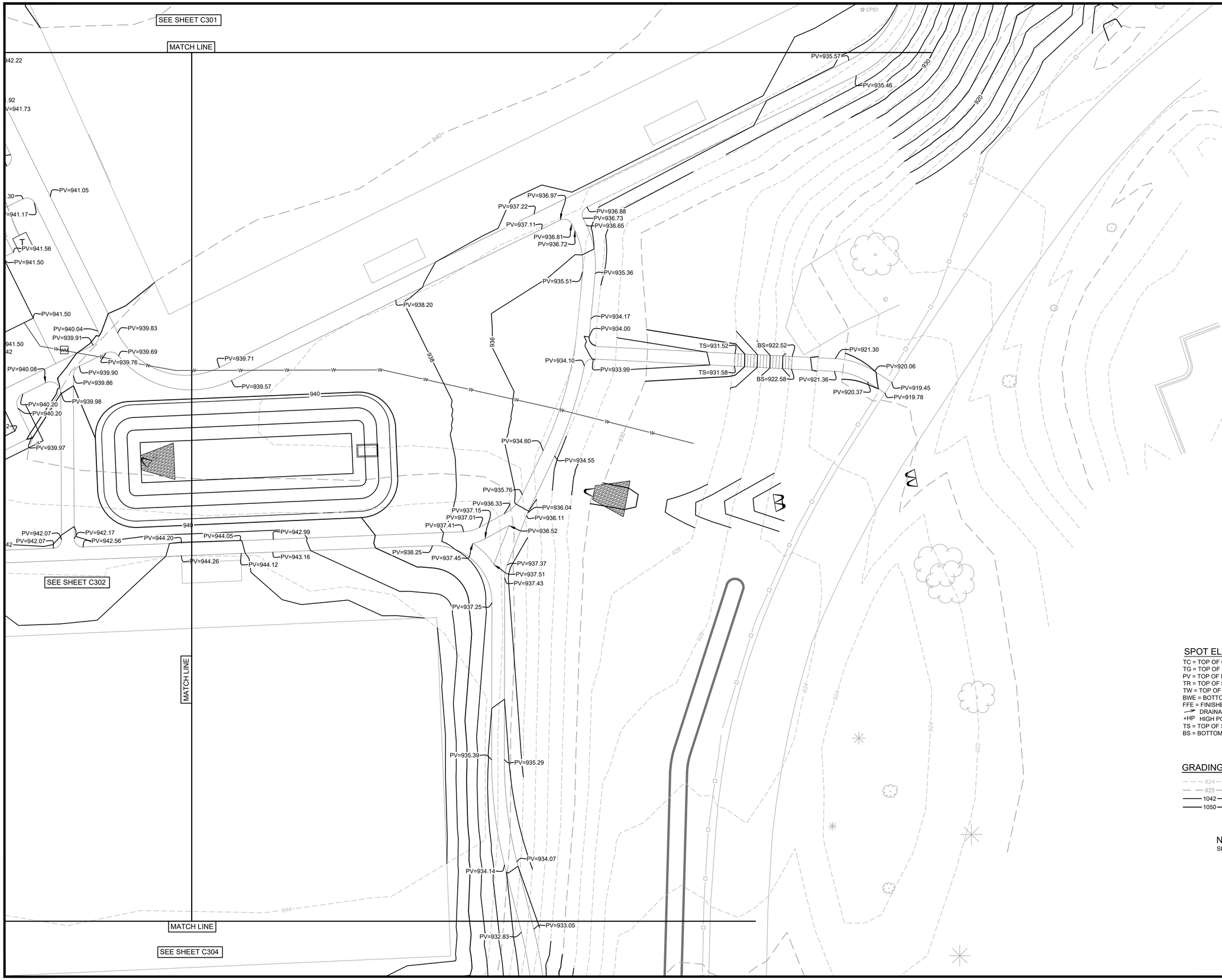
ENGINEER	DRAWN BY	CHECKED BY
	AVD	AVD

PLATTE RIDGE PARK
FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

ENLARGED GRADING PLAN

P:\210266-000\06-DRAWINGS\CIVIL\CONSTRUCTION DOCS\210266-000 EGRAD.DWG

DRAWING NO.
C302



SPOT ELEVATION LEGEND:

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TG = TOP OF GROUND ELEVATION
PV = TOP OF PAVEMENT ELEVATION
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DRAINAGE DIRECTION
+HP HIGH POINT
TS = TOP OF STAIR RISER ELEVATION
BS = BOTTOM OF STAIR RISER ELEVATION

GRADING LEGEND:

924 EXISTING 2' CONTOUR
925 EXISTING 10' CONTOUR
1042 PROPOSED 2' CONTOUR
1050 PROPOSED 10' CONTOUR

NOTE:
SEE SHEET C001 FOR GENERAL NOTES.

N

20 10 0 20

WSKF ARCHITECTS

pkmr ENGINEERS
PEARSON KENT MCKINLEY RAAF ENGINEERS LLC
13300 W 98TH STREET LENEXA, KS 66215
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MO State Certificate of Authority #E-2002020886

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SHARON KIM FLANDERS
NUMBER PE-2021027855
PROFESSIONAL ENGINEER
4/18/2022

REVISIONS

PROJECT INFO
210266-000

ENGINEER	DRAWN BY	CHECKED BY
	AVD	AVD

PLATTE RIDGE PARK FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

ENLARGED GRADING PLAN

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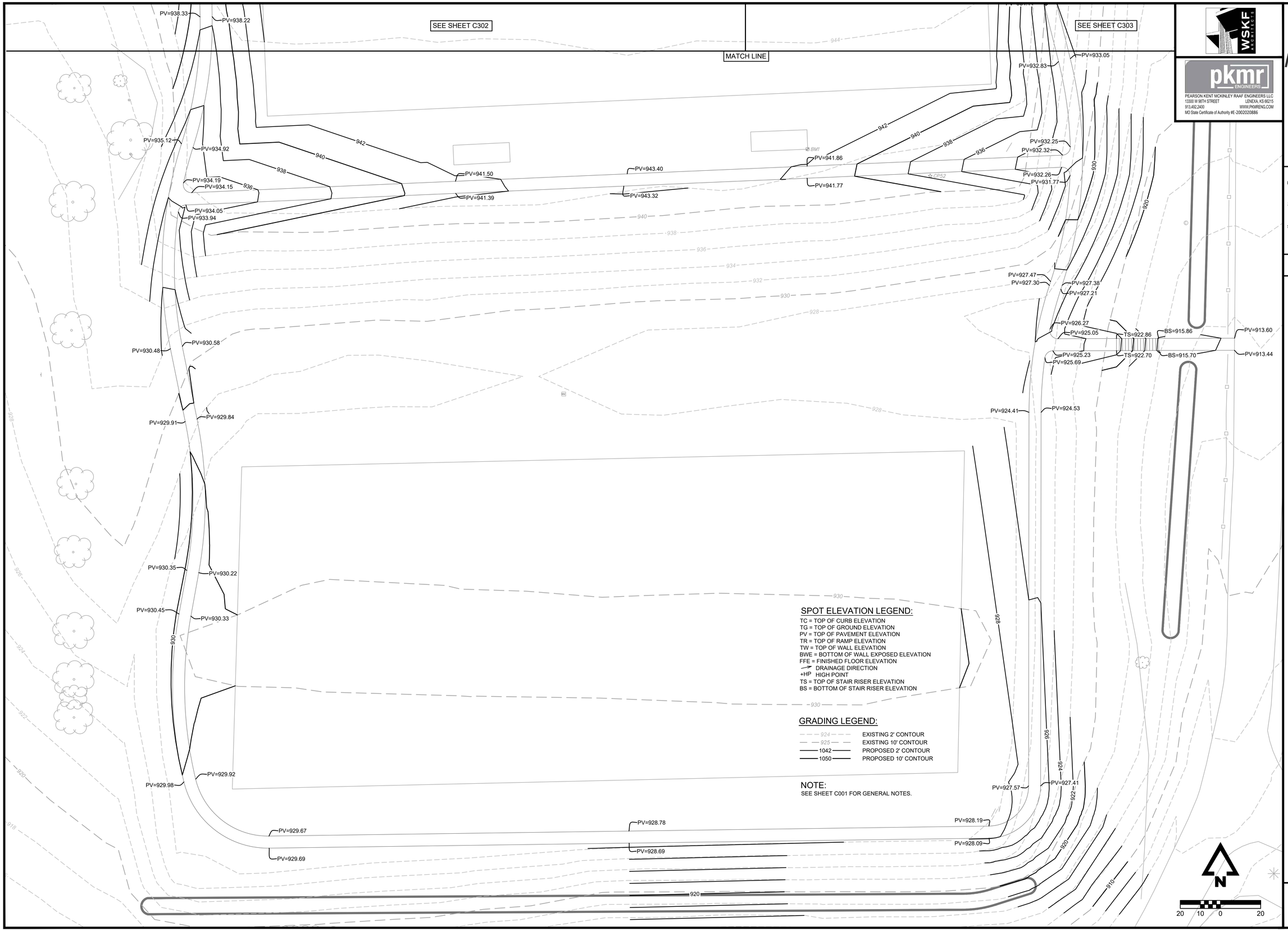
DRAWING NO.
C303



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GRADING LEGEND:

924 EXISTING 2' CONTOUR
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1042 PROPOSED 2' CONTOUR
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NOTE:

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20 10 0 20

WSKF ARCHITECTS

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4/18/2022

REVISIONS

PROJECT INFO
210266-000

ENGINEER	DRAWN BY	CHECKED BY
	AVD	AVD

PLATTE RIDGE PARK
FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

ENLARGED GRADING PLAN

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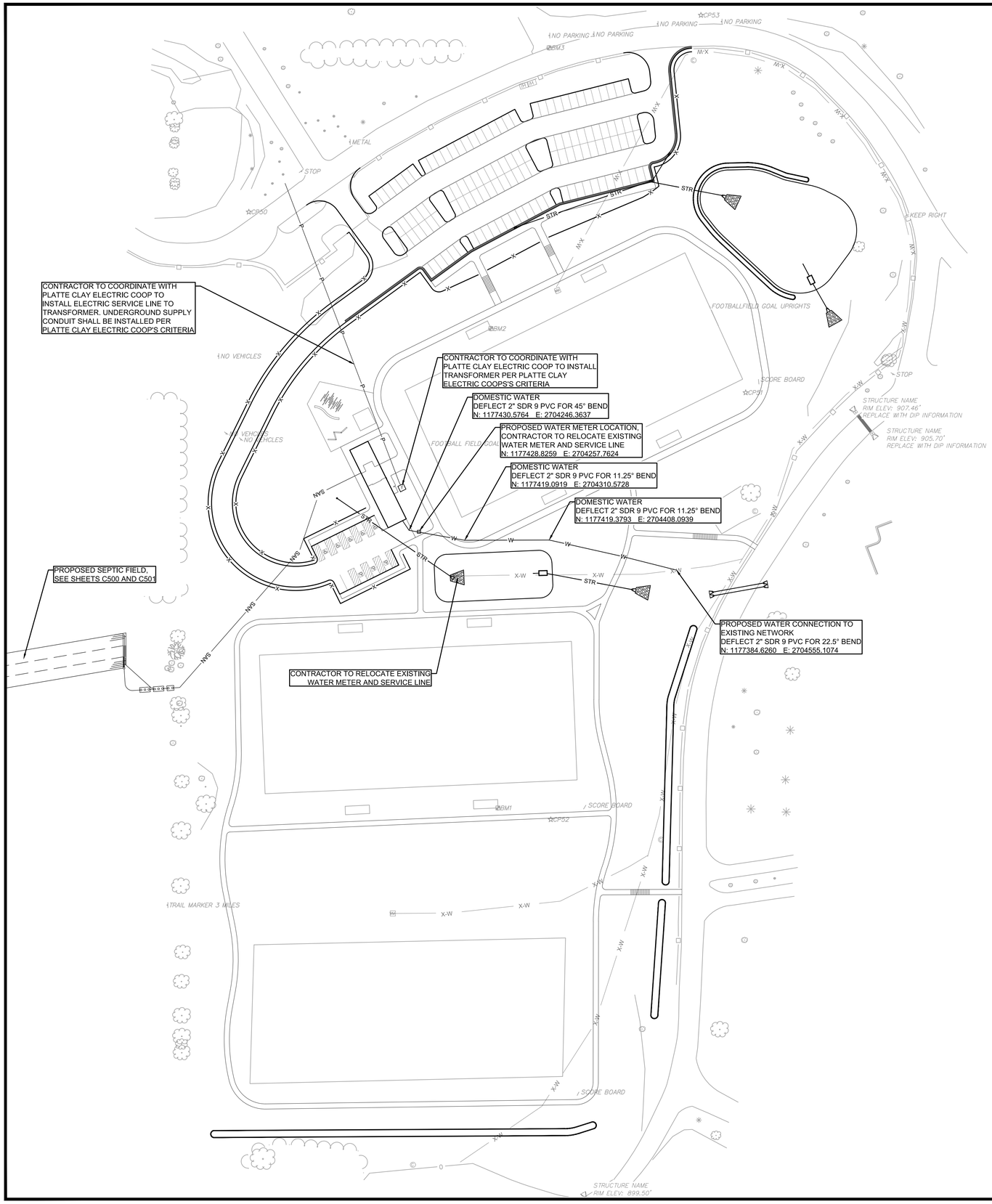
DRAWING NO.
C304



UTILITY LEGEND

XSAN	EX. SANITARY SEWER LINE
XUGT	EX. UNDERGROUND TELEPHONE LINE
XSTM	EX. STORM SEWER LINE
XUGE	EX. UNDERGROUND ELECTRIC LINE
XW	EX. WATER LINE
XOHE	EX. OVERHEAD ELECTRIC
	EX. SIGN
	EX. FIBER OPTIC HAND HOLE
	EX. WATER METER
	EX. ELECTRIC HAND HOLE
	EX. COMMUNICATIONS HAND HOLE
	EX. COMMUNICATIONS MANHOLE
	EX. TELEPHONE PEDESTAL
	EX. WATER VALVE
	EX. STORM MANHOLE
	EX. LIGHT POLE
	EX. SANITARY MANHOLE
	EX. FIRE HYDRANT
	NEW WATER VALVE
	NEW STORM SEWER INTAKE
STR	NEW STORM SEWER LINE
FO	NEW FIBER OPTIC LINE
W	NEW WATER LINE
FW	NEW FIRE SERVICE LINE
SAN	NEW SANITARY SEWER LINE
	PROPERTY LINE OF SUBJECT PROPERTY
G	NEW GAS LINE
C	NEW CABLE LINE
E	NEW ELECTRIC LINE

NOTE:
SEE SHEET C001 FOR GENERAL NOTES.

N

60 30 0 60

WSKF ARCHITECT

pkmr ENGINEERS
PEARSON KENT MCKINLEY RAAF ENGINEERS LLC
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STATE OF MISSOURI
SHARON KIM FLANDERS
NUMBER PE-2021027855
PROFESSIONAL ENGINEER
4/18/2022

REVISIONS

PROJECT INFO
210266-000

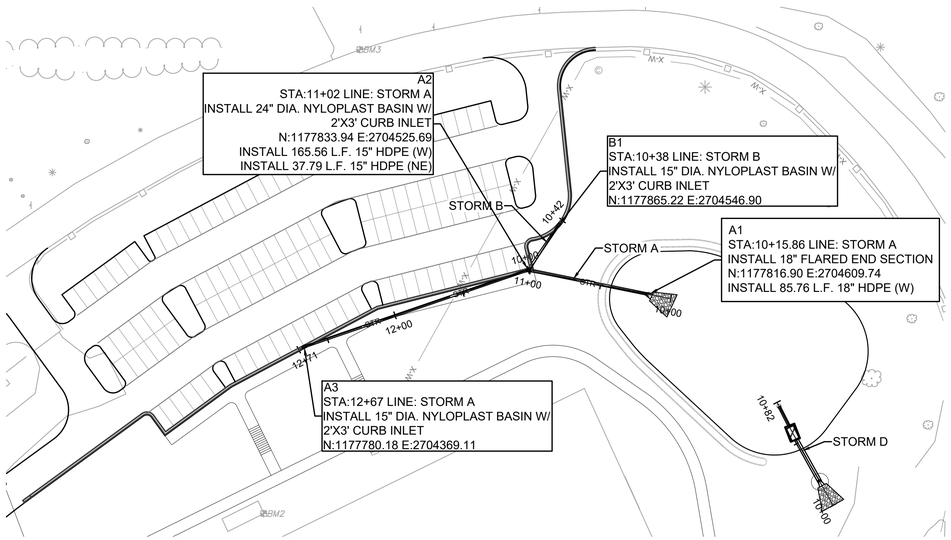
ENGINEER	DRAWN BY	CHECKED BY
	AVD	AVD

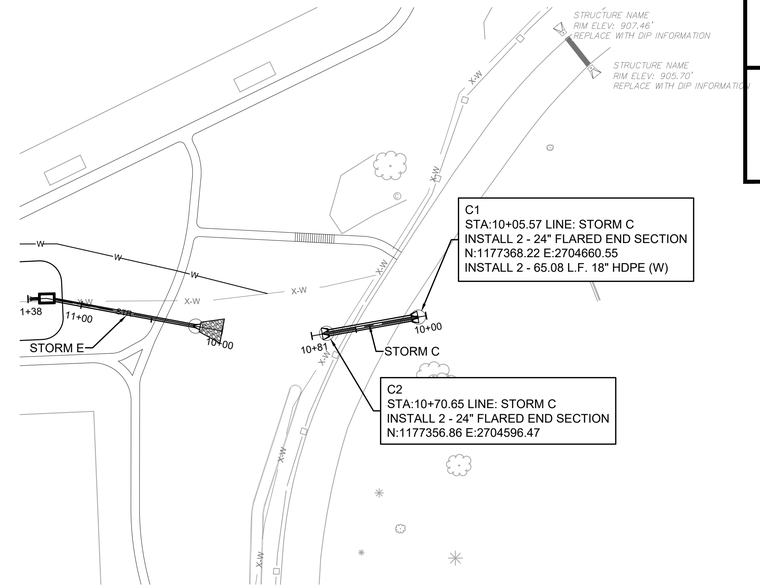
PLATTE RIDGE PARK FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

UTILITY PLAN

P:\210266-000\06-DRAWINGS\CIVIL\CONSTRUCTION DOCS\210266-000 UTIL.DWG

DRAWING NO.
C400





N

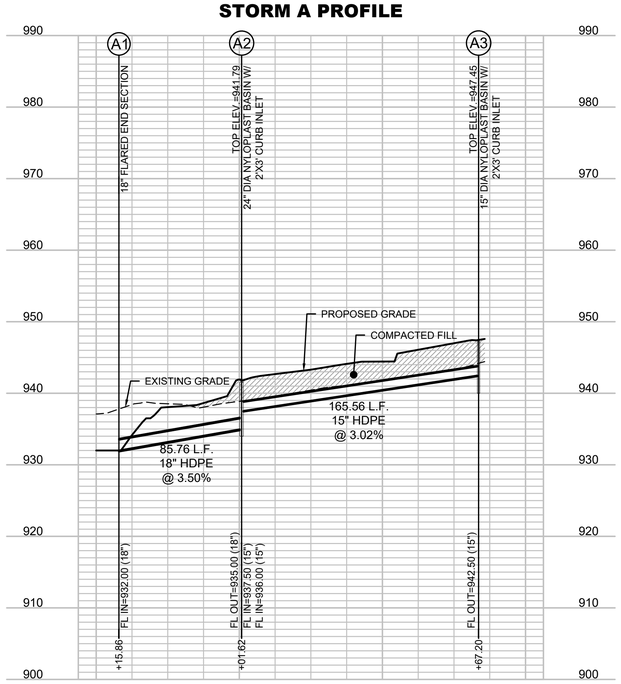
HORIZ. SCALE

50 25 0 50

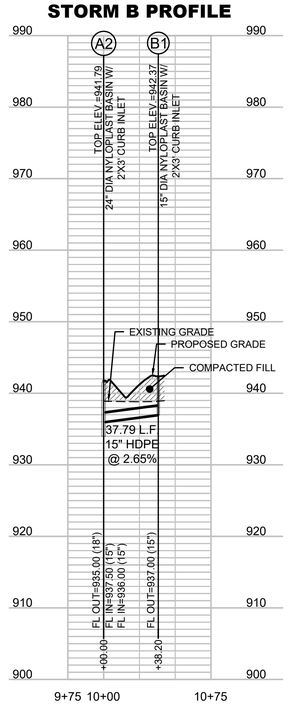
VERT. SCALE

10 5 0 10

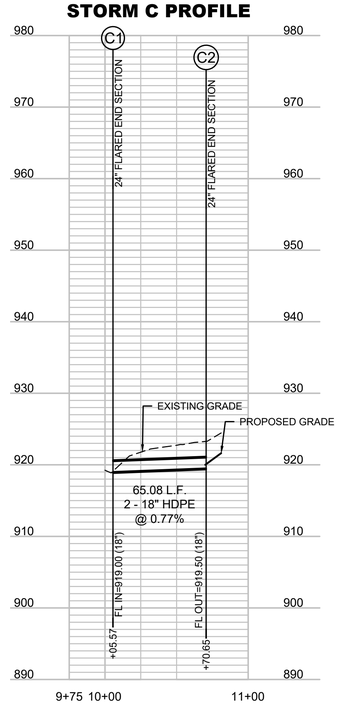
STORM A PROFILE



STORM B PROFILE



STORM C PROFILE



WSKF ARCHITECTS

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MISSOURI CERTIFICATE OF AUTHORITY NO. E-2006023253
EXPIRES: DECEMBER 31, 2022

STATE OF MISSOURI
SHARON KIM FLANDERS
NUMBER
PE-2021027855
4/18/2022
PROFESSIONAL ENGINEER

REVISIONS

PROJECT INFO
210266-000

ENGINEER	DRAWN BY	CHECKED BY
	AVD	AVD

PLATTE RIDGE PARK
FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

STORM PLAN AND PROFILES

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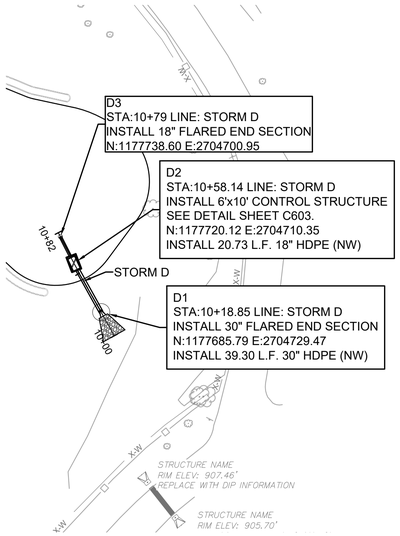
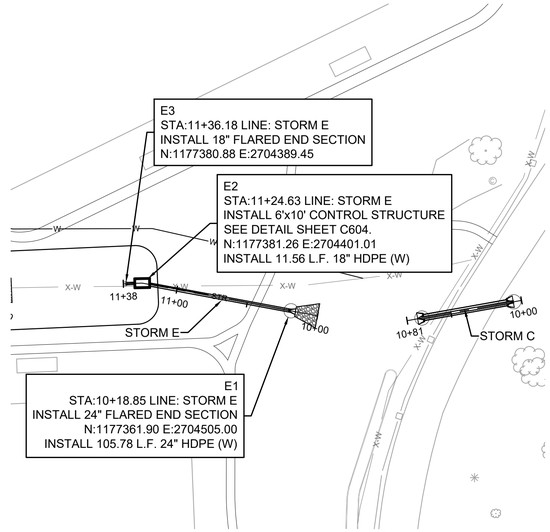
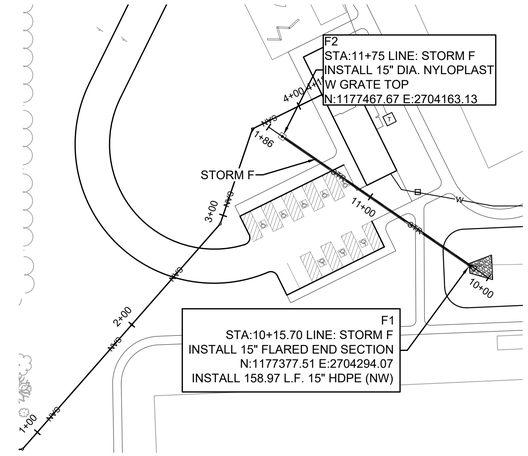
DRAWING NO.
C401







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HORIZ. SCALE

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VERT. SCALE

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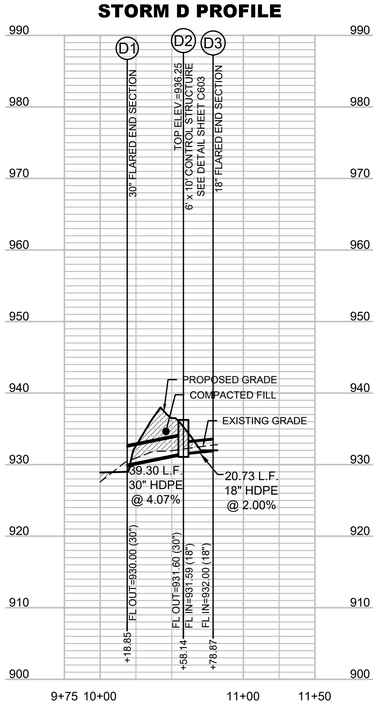
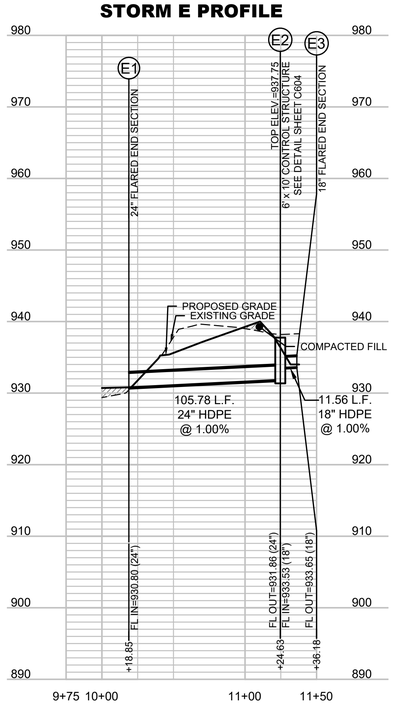
STORM D PROFILE



STORM E PROFILE



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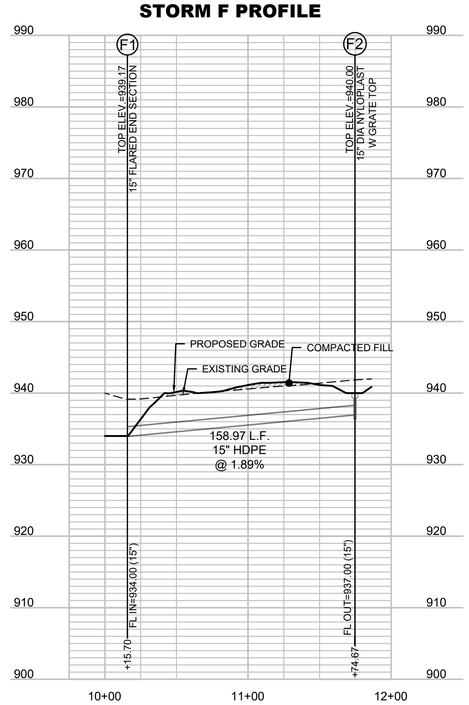

WSKF ARCHITECTS

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SHARON KIM FLANDERS
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PROFESSIONAL ENGINEER
4/18/2022

REVISIONS

PROJECT INFO
210266-000

ENGINEER	DRAWN BY	CHECKED BY
	AVD	AVD

PLATTE RIDGE PARK FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

STORM PLAN AND PROFILES

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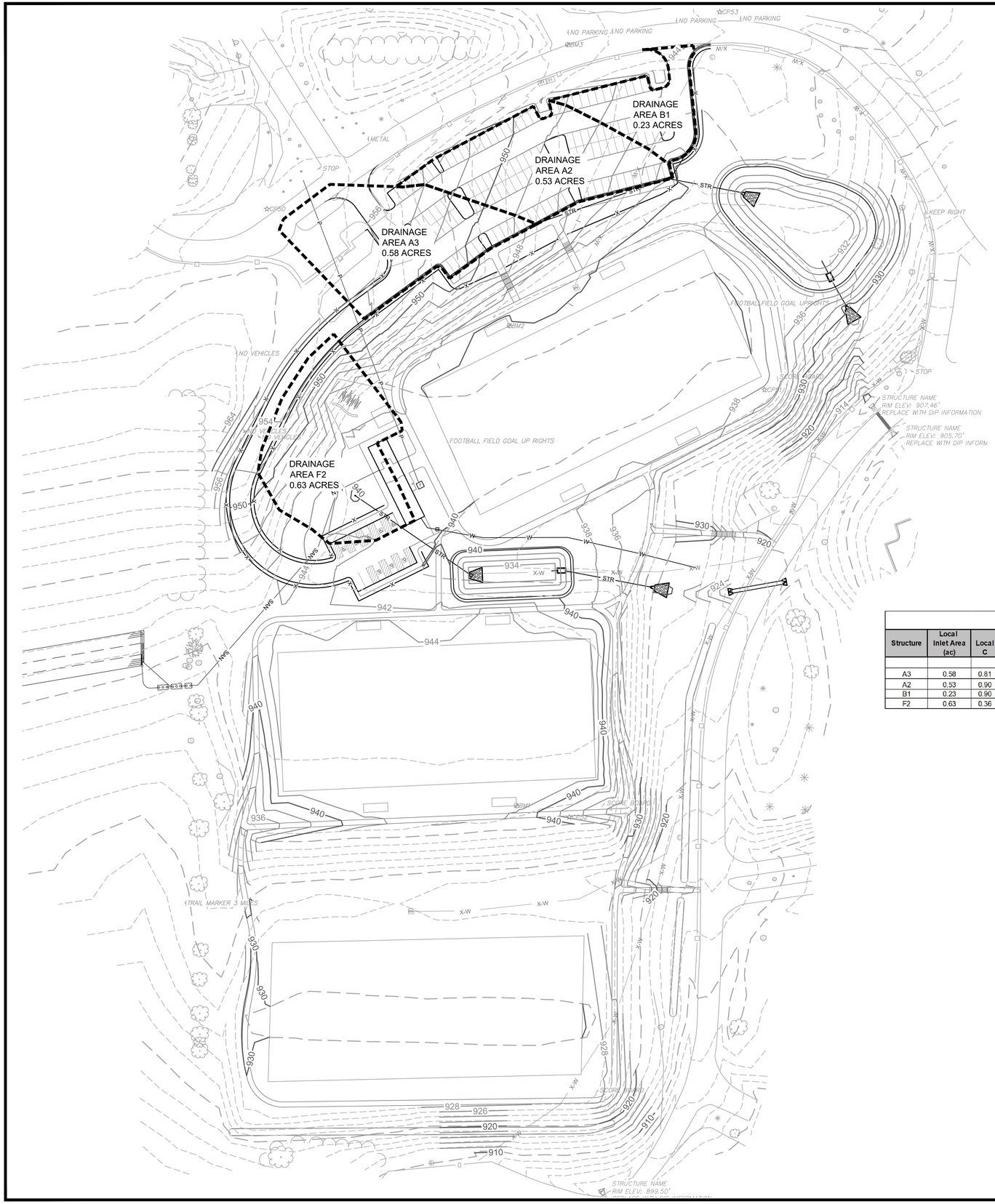

HYDROLOGY

Structure	Local Inlet Area (ac)	Local C	Local CA (ac)	System CA (ac)	Local Tc (min)	System Tc (min)	Local Intensity 10 yr (in/hr)	Local Intensity 100yr (in/hr)	System Intensity 10 yr (in/hr)	System Intensity 100 yr (in/hr)	Antecedent Precip Factor (10 yr)	Antecedent Precip Factor (100 yr)	Local Flow 10 Yr (cfs)	System Flow 10 Yr (cfs)	Local Flow 100 Yr (cfs)	System Flow 100 Yr (cfs)
A3	0.58	0.81	0.47	0.47	5.00	5.00	7.35	10.32	7.35	10.32	1.00	1.25	3.45	3.45	6.06	6.06
A2	0.53	0.90	0.48	1.15	5.00	5.00	7.35	10.32	7.35	10.32	1.00	1.25	3.51	8.48	6.15	14.89
B1	0.23	0.90	0.21	0.21	5.00	5.00	7.35	10.32	7.35	10.32	1.00	1.25	1.52	1.52	2.67	2.67
F2	0.63	0.36	0.23	0.23	5.00	5.00	7.35	10.32	7.35	10.32	1.00	1.25	1.67	1.67	2.93	2.93

PIPE DESIGN

Pipe Name	U/S Structure	D/S Structure	U/S Invert	D/S Invert	Pipe Length (ft)	Pipe Slope (ft/ft)	Pipe Diameter (in)	Manning's n	Inlet Capacity (cfs)	Full Capacity (cfs)	System Flow 10 Yr (cfs)	System Flow 100 Yr (cfs)	Average Velocity (ft/s)
LINE A3	A3	A2	942.50	937.50	165.56	0.0302	15	0.013	7.63	11.25	3.45	6.06	9.17
LINE A2	A2	A1	935.00	932.00	85.76	0.0350	18	0.013	12.03	19.69	8.48	14.89	11.15
LINE B1	B1	A2	937.00	936.00	37.79	0.0265	15	0.013	7.63	10.53	1.52	2.67	8.59
LINE C2	C2	C1	919.50	919.00	65.08	0.0077	18	0.013	24.06	18.45	11.98	19.05	5.22
LINE F1	F2	F1	937.00	934.00	158.97	0.0189	15	0.013	7.63	8.89	1.67	2.93	7.25

*LINE C2 CONSISTS OF TWO (2) - 18" PIPES; CALCULATION REFLECTS BOTH PIPES IN USE

NOTE:
SEE SHEET C001 FOR GENERAL NOTES.

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4/18/2022
PROFESSIONAL ENGINEER

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PLATTE RIDGE PARK FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

DRAINAGE PLAN

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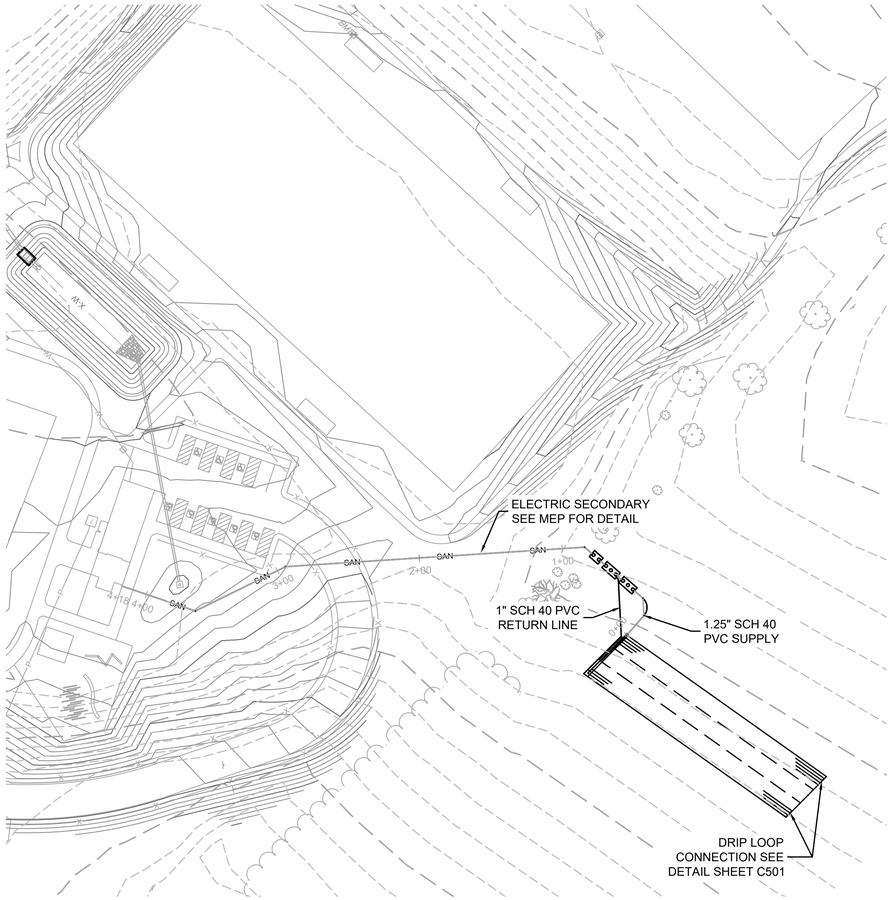
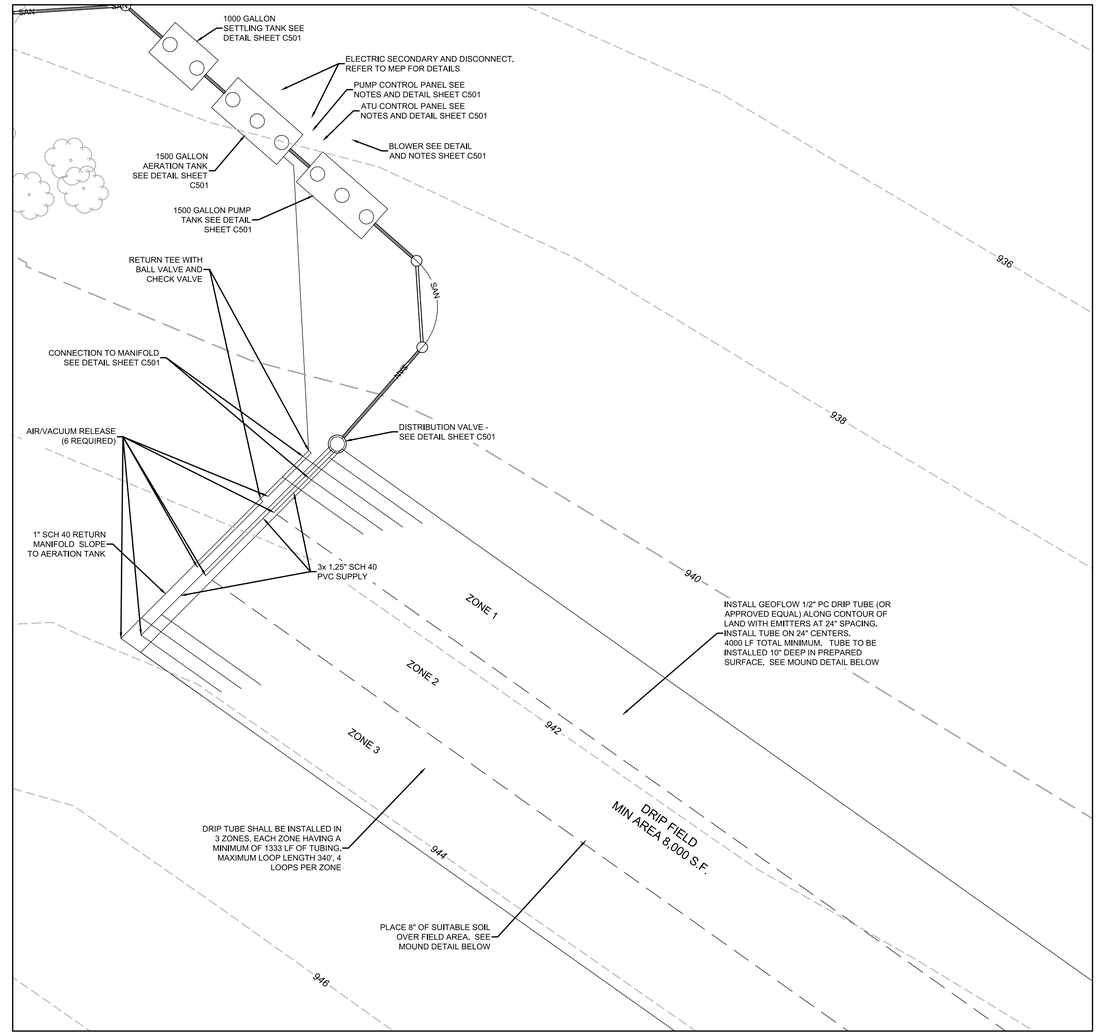
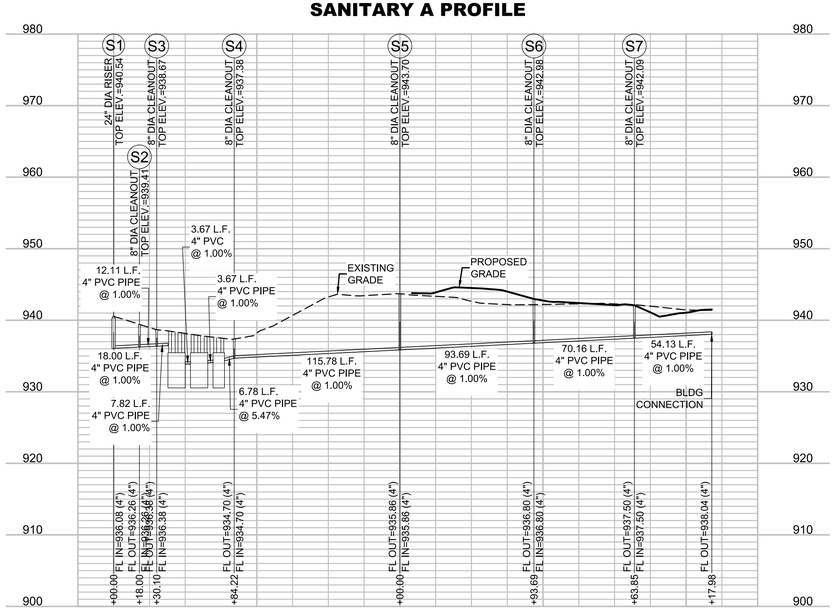
DRAWING NO.
C403

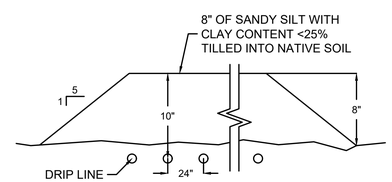




DRIP FIELD DETAIL
(SCALE 1:10)

SANITARY A PROFILE

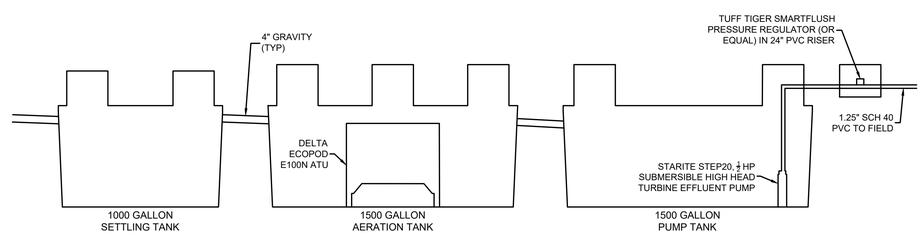




DRIP MOUND DETAIL

GENERAL NOTES:

1. CONTRACTOR SHALL ENSURE THAT THE MINIMUM LENGTH OF DRIP TUBING IS INSTALLED IN EACH ZONE AS SHOWN BY THE ZONE PLAN.
2. PROPOSED CONFIGURATION SHALL PROVIDE 800 GALLONS PER DAY OF DRIP CAPACITY AT A LOADING RATE OF 0.10 GPD PER SQUARE FEET OR 4000 LINEAL FEET OF TUBING.
3. THE DOSING CONTROLS SHALL BE CONFIGURED TO DOSE THE FIELD IN AN ALTERNATING PATTERN. SEQUENCE DOSING IN THE FOLLOWING ORDER: ZONE 1, ZONE 2, ZONE 3.
4. DOSING CONTROLS SHALL BE CONFIGURED TO DOSE 3 CYCLES PER ZONE PER DAY FOR 15 MINUTES RUN TIME.
5. ALL PRESSURE DISTRIBUTION AND RETURN MAINS AND MANIFOLDS SHALL BE INSTALLED WITH TRACER WIRE AT A MINIMUM DEPTH OF 18".
6. CONTRACTOR IS REQUIRED TO PROVIDE START-UP TRAINING TO OWNER AS WELL AS A 2-YEAR WARRANTY PERIOD FOR ALL EQUIPMENT AND INSTALLATION.
7. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENT OF THE PLATTE COUNTY HEALTH DEPARTMENT. CONTRACTOR SHALL OBTAIN A PERMIT PRIOR TO CONSTRUCTION.
8. CONTRACTOR SHALL PROTECT DRIP IRRIGATION FIELD FROM UNNECESSARY DISTURBANCE AND HEAVY TRAFFIC.
9. INSTALLER SHALL BE CERTIFIED AS AN ALTERNATE SYSTEM INSTALLER BY PLATTE COUNTY HEALTH.



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HORIZ. SCALE
50 25 0 50

VERT. SCALE
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FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

SEWER PLAN AND PROFILE

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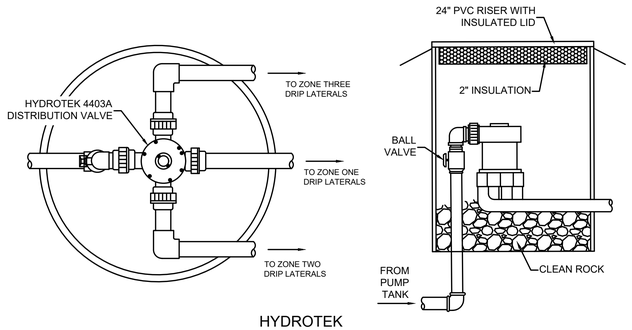
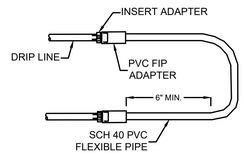
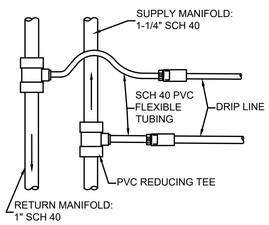
C500



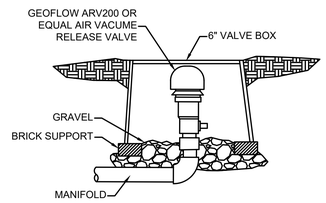
HYDROTEK
DISTRIBUTION VALVE



TYPICAL DRIP LOOP
CONNECTIONS



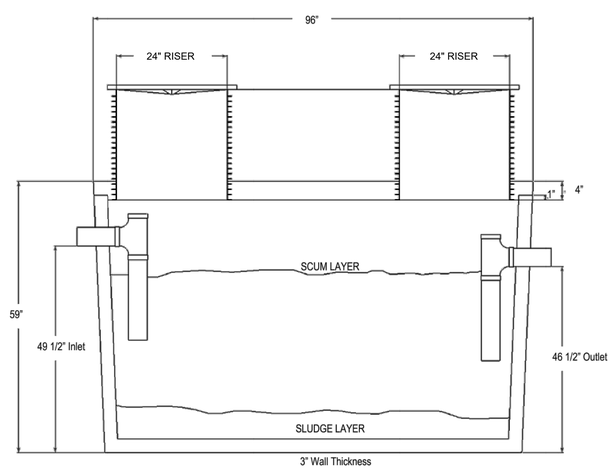
DRIP LINE CONNECTION
TO MANIFOLD



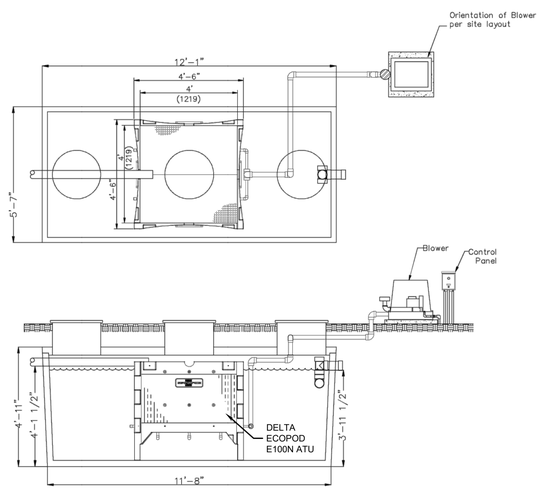
AIR/VACUUM RELIEF
VALVE DETAILS

TANK AND EQUIPMENT NOTES:

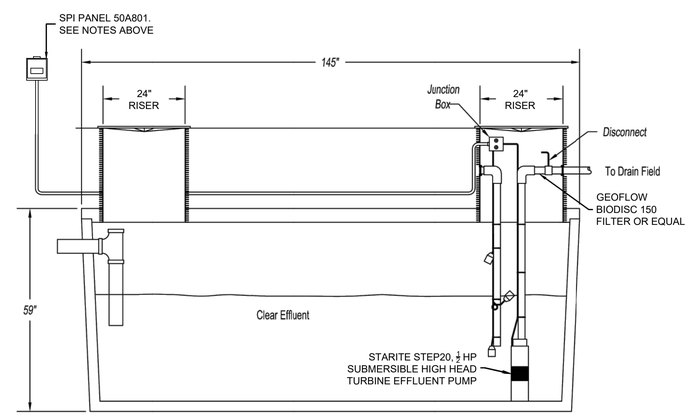
1. TANKS SHALL BE PRECAST CONCRETE AS SUPPLIED BY SI PRECAST OR EQUAL.
2. TANKS MUST PROVIDE ADEQUATE ACCESS POINTS FOR MAINTENANCE AND CLEANING.
3. BEDDING REQUIREMENTS: TANKS SHALL BE PLACED ON SOILS CAPABLE OF BEARING WEIGHT OF TANK AND CONTENTS. SOFT SOILS OR BEDROCK SHALL HAVE A MINIMUM 4" TAMPED BEDDING 100% WHICH SHALL PASS A 1 1/4" SCREEN MADE UP OF CLEAN STONE (CLEAN PEA STONE IS PREFERRED). THE CENTER BEDDING UNDER THE TANK SHOULD BE 1" LOWER THAN THE PERIMETER BEDDING.
3. BACKFILL: SIDEWALLS REQUIRE BACKFILL WHICH 100% SHALL PASS A 2" SCREEN MATERIAL MADE UP OF DRY SOIL, SAND OR GRAVEL. MINIMUM 12" ALL SIDES OF TANK, FROM BASE TO TOP. NO PARALLEL BACKFILLING OR COMPACTION ALONG LENGTH OF SIDEWALLS IS PERMITTED. NO WHEEL OR TRACK LOADING ON SIDEWALLS. MATERIAL ON TOP TANK TO PASS 4" SCREEN & DRY. STANDARD TANK DESIGN IS FROM 2"-0" TO 7'-0" BURY DEPTH. OVER 7'-0" BURY DEPTH MAY REQUIRE A CLASS 3 TANK
4. CONTRACTOR SHALL PERFORM A HYDROSTATIC LEAKAGE TEST PRIOR TO BACKFILLING OF TANKS.
5. ALL INLET AND OUTLET BAFFLES INTERNAL TO TANKS SHALL BE CONSTRUCTED OF SCHEDULE 40 PVC.
6. MANHOLE RISERS TO BE 24" TUF-TITE SEPTIC TANK RISERS OR EQUIVALENT.
7. AERATION TREATMENT UNIT SHALL BE DELTA ECOPOD E100N FIXED FILM TREATMENT UNIT OR EQUAL WITH 2/3 HP BLOWER. ATU TO BE INSTALLED PER MANUFACTURER RECOMMENDATION. ATU CONTROL PANEL SHALL BE SECURELY MOUNTED ON TREATED WOOD POST.
8. DOSING PUMP SHALL BE A SUBMERSIBLE STARITE S20 HIGH HEAD TURBINE PUMP WITH 1/2 HP MOTOR OR EQUAL.
9. DOSING PUMP SHALL BE CONTROLLED BY A SEPTIC PRODUCTS INC. TIME DOSING PANEL 50A801 OR EQUAL, INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. PUMP CONTROL PANEL SHALL BE SECURELY MOUNTED TO A WOOD POST, ADJACENT TO BLOWER CONTROL PANEL.
10. SEWER CONTRACTOR SHALL INSTALL CONDUIT AND CONDUCTORS FROM DISCONNECT TO CONNECT CONTROL PANELS, BLOWER, AND PUMP PER NATIONAL ELECTRICAL CODE REQUIREMENTS.



1000 GALLON
SETTLING TANK



1500 GALLON
AERATION TANK



1500 GALLON
PUMP TANK

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SEWER DETAILS

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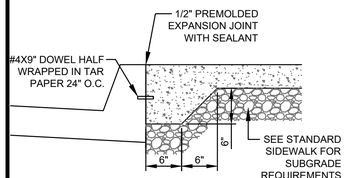
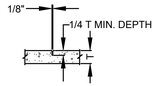
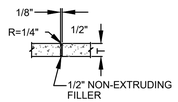
DRAWING NO.
C501



SECTION AT CURBS



CONTROL JOINT



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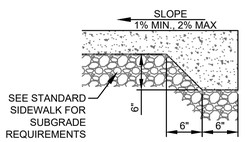

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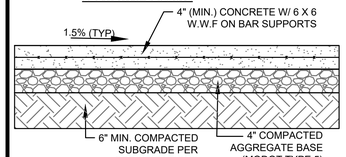
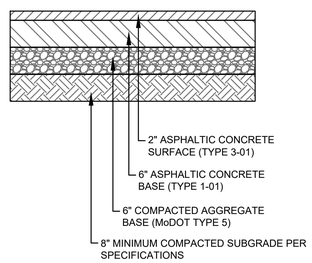


NOTES

1. CONCRETE SHALL CONFORM TO KCMO SPECIFICATIONS. (KCMMB4K)
2. 1/2" RUBBER EXPANSION JOINTS SHALL BE PLACED WHERE WALK ABUTS JUNCTION OF EXISTING WALK, CONCRETE CURBS, DRIVEWAYS AND SIMILAR STRUCTURES, AND AS SHOWN IN THE DRAWINGS.
3. CONTROL JOINTS SHALL BE PLACED AS SHOWN ON THE DRAWINGS OR AT DISTANCE NOT EXCEEDING THE WIDTH OF THE SIDEWALK, IF NOT SHOWN.
4. SAWCUT ALL CONTROL JOINTS.
5. ALL JOINTS SHALL BE SEALED WITH VULCAN 45 OR DOW CORNING 888 SILICON JOINT SEALANT.

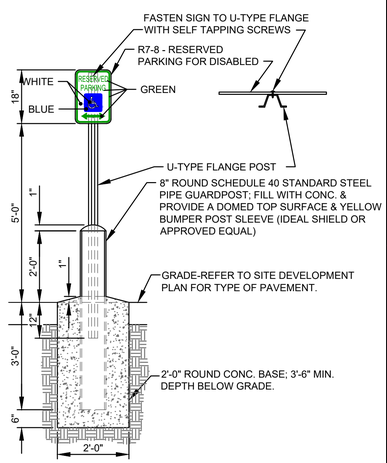
SIDEWALK DETAILS

NOT TO SCALE



ASPHALT PAVEMENT DETAIL

NOT TO SCALE

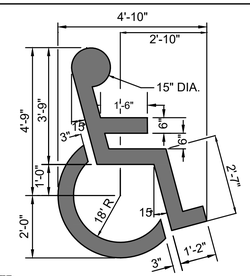


NOTE:
STEEL POSTS SHALL BE GALVANIZED ACCORDING TO AASHTO M-111 OR BE ALUMINUM POSTS FABRICATED FROM ALUMINUM ALLOY MEETING ASTM B-308, ALLOY 6061-T6.

POSTS SHALL HAVE HOLES AT ONE INCH SPACING THE ENTIRE LENGTH OF THE POST.

DISABLED SIGN ON 8" BOLLARD

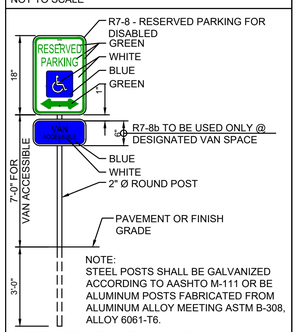
NOT TO SCALE



NOTE:
1. ACCESSIBLE SYMBOL TO BE 6" WHITE LINE
2. ACCESSIBLE PARKING STALLS SHALL HAVE 4" SOLID BLUE LINES FOR STALL LINES, AND ACCESS AISLES.

ACCESSIBLE PARKING SYMBOL

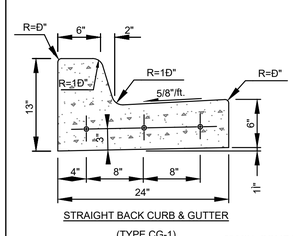
NOT TO SCALE



NOTE:
STEEL POSTS SHALL BE GALVANIZED ACCORDING TO AASHTO M-111 OR BE ALUMINUM POSTS FABRICATED FROM ALUMINUM ALLOY MEETING ASTM B-308, ALLOY 6061-T6.

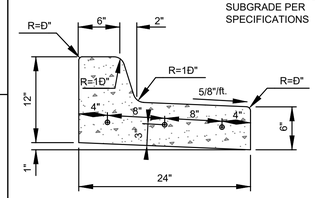
ACCESSIBLE PARKING SIGN

NOT TO SCALE



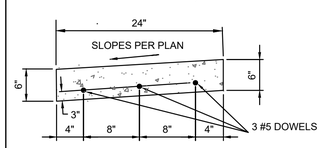
STRAIGHT BACK CURB & GUTTER

(TYPE CG-1)

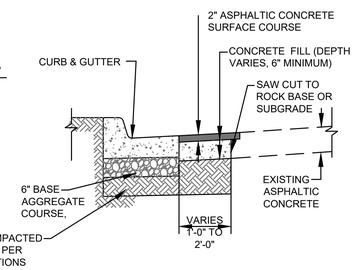


STRAIGHT BACK DRY CURB & GUTTER

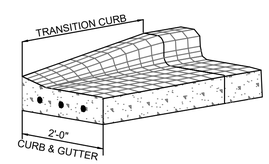
(TYPE CG-1 DRY)



FLUSH CURB



CURB REPLACEMENT DETAIL



TRANSITION CURB

NOTES:
1. CONCRETE SHALL CONFORM TO SPECIFICATIONS(KCMMB 4K).
2. 1/2" RUBBER EXPANSION JOINTS SHALL BE PLACED WHERE WALK ABUTS JUNCTION OF EXISTING WALK, CONCRETE CURBS, DRIVEWAYS AND SIMILAR STRUCTURES, AND AS SHOWN IN THE DRAWINGS.
3. CONTROL JOINTS SHALL BE PLACED AS SHOWN ON THE DRAWINGS OR AT DISTANCE NOT EXCEEDING THE WIDTH OF THE SIDEWALK, IF NOT SHOWN.
4. SAWCUT ALL CONTROL JOINTS.
5. ALL JOINTS SHALL BE SEALED WITH VULCAN 45 OR DOW CORNING 888 SILICON JOINT SEALANT.

CURB DETAILS

NOT TO SCALE

WSKF ARCHITECTS

pkmr ENGINEERS
PEARSON KENT MCKINLEY RAAF ENGINEERS LLC
13300 W 98TH STREET LENEXA, KS 66215
913.492.2400 WWW.PKMRENG.COM
MO State Certificate of Authority #E-2002020886

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North Kansas City, Missouri 64116
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Ankeny,IA | Carroll,IA | Clive,IA
Cedar Rapids,IA | Fort Dodge,IA
North Liberty,IA | Sioux City,IA
Macon,MO | Columbia,MO
North Kansas City,MO
Lenexa, KS

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MISSOURI CERTIFICATE OF AUTHORITY NO. E-2006023253
EXPIRES: DECEMBER 31, 2022

STATE OF MISSOURI
SHARON KIM FLANDERS
NUMBER PE-2021027855
PROFESSIONAL ENGINEER
4/18/2022

REVISIONS

PROJECT INFO
210266-000

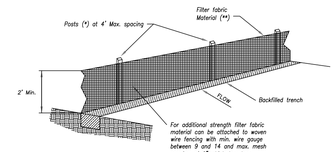
ENGINEER	DRAWN BY	CHECKED BY
	AVD	AVD

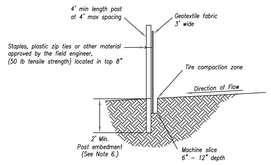
PLATTE RIDGE PARK FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

DETAILS

P:\210266-000\06-DRAWINGS\CIVIL\CONSTRUCTION DOCS\210266-000 DTLS.DWG

DRAWING NO.
C600





(*) POSTS
– MIN. LENGTH 4'
– HARDWOOD 1 ½" x 1 ½"
– NO.2 SOUTHERN PINE 2 ⅜" x 2 ⅜"
– STEEL 1.33 LB/FT

(**) – Geotextile Fabric shall meet the requirements of AASHTO M288

SILT FENCE DETAILS

Not to Scale

Notes:

1. In order to contain water, the ends of the silt fence must be turned uphill (Figure A).
2. Long perimeter runs of silt fence must be limited to 100'. Runs should be broken up into several smaller segments to minimize water concentrations (Figure A).
3. Long slopes should be broken up with intermediate rows of silt fence to slow runoff velocities.
4. Attach fabric to upstream side of post.
5. Install posts a minimum of 2' into the ground.
6. Trenching will only be allowed for small or difficult installation, where slicing machine cannot be reasonably used.

Maintenance:

1. Remove and dispose of sediment deposits when the deposit approaches ⅓ the height of silt fence.
2. Repair as necessary to maintain function and structure.

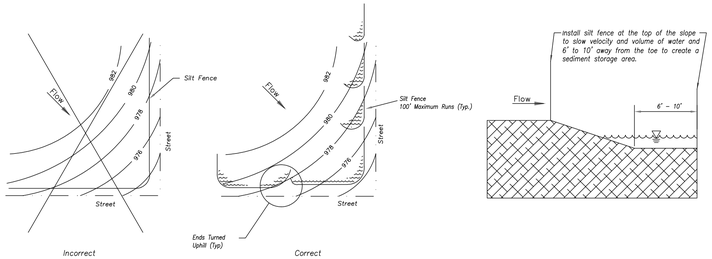
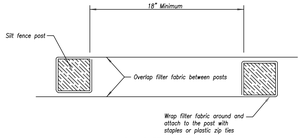


Figure A

SILT FENCE LAYOUT

Not to Scale

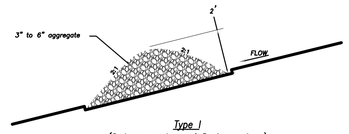


JOINING FENCE SECTIONS

Not to Scale

Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

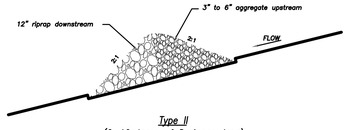
AMERICAN PUBLIC WORKS ASSOCIATION		
		KANSAS CITY METRO CHAPTER
SILT FENCE		STANDARD DRAWING NUMBER ESC-03 ADOPTED: 10/24/2016



Type I

(2 Acres or less of Drainage Area)

Not to Scale



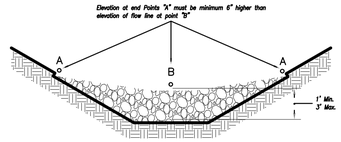
Type II

(2–10 Acres of Drainage Area)

Not to Scale

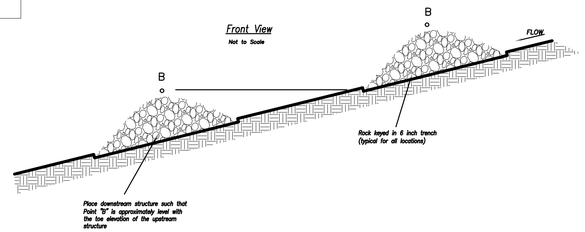
ROCK DITCH CHECK

Temporary Rock Ditch Check Spacing	
Ditch Centerline Slope (%)	Spacing Interval (Feet)
5.0	60
6.0	50
7.0	43
8.0	36
9.0	33
10.0	29
Note: Use this spacing only for Rock Ditch Checks.	



Front View

Not to Scale



Spacing Between Check Dams (all types)

Not to Scale

Notes:

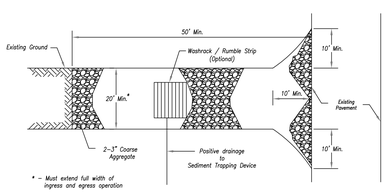
1. Rock check dams shall be used only for drainage areas less that 10 acres unless approved by the City Engineer.
2. Use rock checks only in situations where the ditch slope exceeds 6%.

Maintenance:

1. Remove and dispose of sediment deposits when the deposit approaches ½ the height of the ditch check.
2. Replace and reshape as necessary to maintain function and integrity of installation.

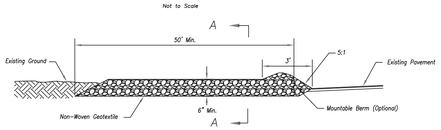
Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

AMERICAN PUBLIC WORKS ASSOCIATION		
		KANSAS CITY METRO CHAPTER
ROCK DITCH CHECKS		STANDARD DRAWING NUMBER ESC-10 ADOPTED: 10/24/2016



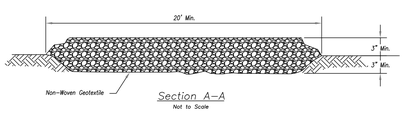
Plan View

Not to Scale



Side Elevation

Not to Scale



Section A–A

Not to Scale

Notes for Construction Entrance:

1. Avoid locating on steep slopes, at curves on public roads, or downhill of disturbed area.
2. Remove all vegetation and other unsuitable material from the foundation area, grade, and crown for positive drainage.
3. If slope towards the public road exceeds 2%, construct a 6– to 8–inch high ridge with 3H:1V side slopes across the foundation approximately 15 feet from the edge of the public road to divert runoff from it.
4. Install pipe under the entrance if needed to maintain drainage ditches along public roads.
5. Place stone to dimensions and grade as shown on plans. Leave surface sloped for drainage.
6. Divert all surface runoff and drainage from the entrance to a sediment control device.
7. If conditions warrant, place geotextile fabric on the graded foundation to improve stability.

Maintenance for Construction Entrance:

1. Reshape entrance as needed to maintain function and integrity of installation. Top dress with clean aggregate as needed.

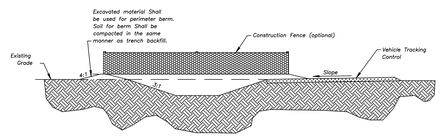
CONSTRUCTION ENTRANCE

Notes for Concrete Washout:

1. Concrete washout areas shall be installed prior to any concrete placement on site.
2. Concrete washout area shall include a flat subsurface pit sized according to the amount of concrete to be placed on site. The slopes leading out of the subsurface pit shall be 3:1. The vehicle tracking pad shall be sloped towards the concrete washout area.
3. Vehicle tracking control is required at the access point to all concrete washout areas.
4. Signs shall be placed at the construction site entrance, washout area and elsewhere as necessary to clearly indicate the location(s) of the concrete washout area(s) to operators of concrete truck and pump rigs.
5. A one–piece impervious liner may be required along the bottom and sides of the subsurface pit in sandy or gravelly soils.

Maintenance for Concrete Washout:

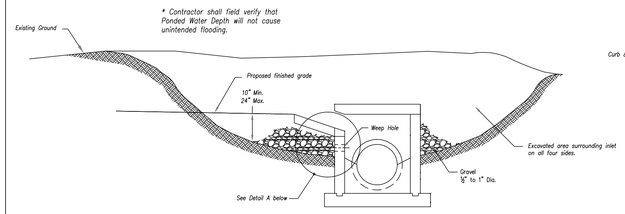
1. Concrete washout materials shall be removed once the materials have filled the washout to approximately 75% full.
2. Concrete washout areas shall be enlarged as necessary to maintain capacity for wasted concrete.
3. Concrete washout water, wasted pieces of concrete and all other debris in the subsurface pit shall be transported from the job site in a water–tight container and disposed of properly.
4. Concrete washout areas shall remain in place until all concrete for the project is placed.
5. When concrete washout areas are removed, excavations shall be filled with suitable compacted backfill and topsoil, any disturbed areas associated with the installation, maintenance, and/or removal of the concrete washout areas shall be stabilized.

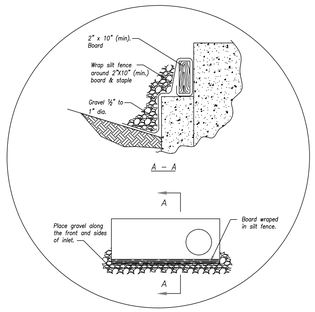


CONCRETE WASHOUT

Construction Entrance modified from 2015 Overland Park Standard Details for Erosion and Sediment Control; Concrete Washout modified from 2009 City of Great Bend Standard Drawings.

AMERICAN PUBLIC WORKS ASSOCIATION		
		KANSAS CITY METRO CHAPTER
CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT		STANDARD DRAWING NUMBER ESC-01 ADOPTED: 10/24/2016

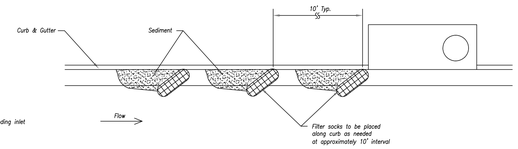




Detail A

EARLY STAGE CURB INLET

(Open Box and Prior to Pouring Curb and Inlet Throat)



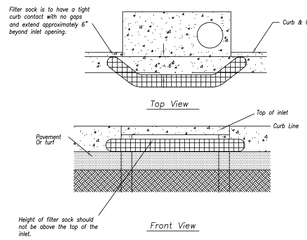
On Grade Curb Inlet Protection

Notes:

1. Immediately following inlet construction and prior to construction of curb and inlet throat, protect inlet opening by installing 2" X 10" (min.) board wrapped in silt fence. Structures shall have excavated storage area on all four sides to allow settling of sediment (Early Stage Curb inlet).
2. When inlet is completed and curb poured, filter socks or approved equal should be used (Late Stage Curb Inlet). Straw wattles are not approved for curb inlet use.
3. Contractor to field verify ponding water shall not create a traffic hazard.

Maintenance:

1. Remove deposited sediment from excavated storage areas when available storage has been reduced by 20%.
2. Remove deposited sediment from filter socks or similar when any accumulation of sediment is visible.
3. Repair or replace as necessary to maintain function and integrity of installation.



Sump Inlet Sediment Filter

LATE STAGE CURB INLET

(After Pouring Curb and Inlet Throat)

Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

AMERICAN PUBLIC WORKS ASSOCIATION		
		KANSAS CITY METRO CHAPTER
CURB INLET PROTECTION		STANDARD DRAWING NUMBER ESC-06 ADOPTED: 10/24/2016

WSKF ARCHITECT

pkmr ENGINEERS
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913.492.2400 WWW.PKMRENG.COM
MO State Certificate of Authority #E-2002020886

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Cedar Rapids,IA | Fort Dodge,IA
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MISSOURI CERTIFICATE OF AUTHORITY NO. E-2006023253
EXPIRES: DECEMBER 31, 2022

STATE OF MISSOURI
SHARON KIM FLANDERS
NUMBER PE-2021027855
PROFESSIONAL ENGINEER
4/18/2022

REVISIONS

PROJECT INFO
210266-000

ENGINEER	DRAWN BY	CHECKED BY
	AVD	AVD

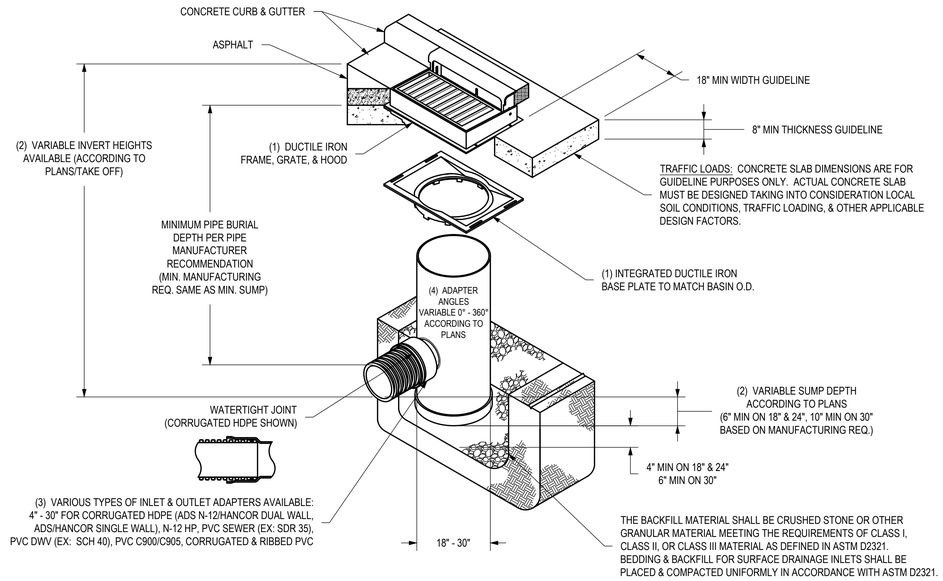
PLATTE RIDGE PARK
FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

DETAILS

P:\210266-000\06-DRAWINGS\CIVIL\CONSTRUCTION DOCS\210266-000 DTLS.DWG

DRAWING NO.
C601

NYLOPLAST 2 FT X 3FT CURB INLET STRUCTURE: 30 _ _ AGR _ _ X



1 - 18" - 30" FRAMES, GRATES, HOODS, & BASE PLATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS.
3 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 24").
4 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
5 - ALL CURB INLET GRATE OPTIONS (DIAGONAL & HIGH FLOW) SHALL MEET H-20 LOAD RATING

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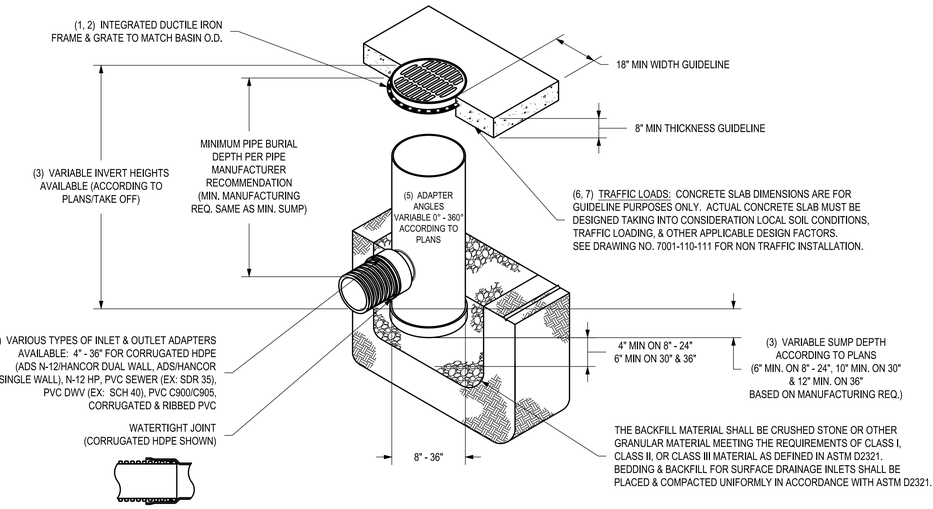
DRAWN BY EBC	MATERIAL	Nyloplast	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
DATE 03-22-10			
REVISED BY NMH	PROJECT NO./NAME	TITLE DRAIN BASIN WITH 2 FT X 3 FT CURB INLET QUICK SPEC INSTALLATION DETAIL	
DATE 03-10-16			
DWG SIZE A	SCALE 1:40 SHEET 1 OF 1	DWG NO. 7002-110-087	REV C

NYLOPLAST DRAIN BASIN WITH STANDARD GRATE



1 - 8" - 30" STANDARD GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - 12" - 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05. 8" & 10" STANDARD GRATES FIT DIRECTLY ONTO DRAIN BASINS WITH THE USE OF A PVC BODY TOP. SEE DRAWING NO. 7001-110-045.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 36").
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
6 - 12" - 30" STANDARD GRATES SHALL MEET H-20 LOAD RATING.
7 - 8" & 10" STANDARD GRATES ARE RATED FOR LIGHT DUTY APPLICATIONS ONLY; NO CONCRETE COLLAR NEEDED FOR LIGHT DUTY RATING.

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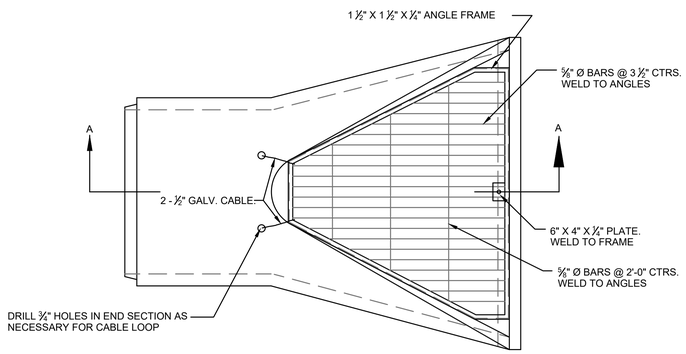
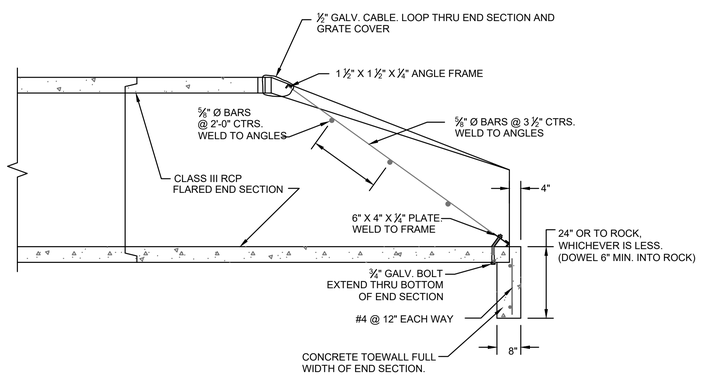
DATE 1-23-06			
REVISED BY NMH	PROJECT NO./NAME	TITLE DRAIN BASIN WITH STANDARD GRATE QUICK SPEC INSTALLATION DETAIL	
DATE 06-12-18			
DWG SIZE A	SCALE 1:40 SHEET 1 OF 1	DWG NO. 7001-110-144	REV J



PLAN VIEW



SECTION A-A

END SECTION TOEWALL & GRATE

NOT TO SCALE

END SECTION NOTES

1. GRATE COVER DETAIL SHALL BE ADJUSTED AS NECESSARY TO FIT END SECTION PROVIDED.
2. MAXIMUM OPENING THRU END SECTION SHALL BE NO GREATER THAN 6". ADJUST DETAIL AS NECESSARY.
3. ALL METAL SURFACES SHALL BE HOT DIP ZINC COATED IN ACCORDANCE WITH ASTM A-123.
4. USE KCMMB4K CONCRETE THROUGHOUT.
5. ALL CONCRETE USED IN THIS WORK SHALL MEET THE REQUIREMENTS OF THE SHAWNEE TECHNICAL SPECIFICATIONS.
6. REINFORCING STEEL SHALL BE NEW BILLET, MINIMUM GRADE 40 AS PER ASTM A615, AND SHALL BE BENT COLD.
7. ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BARS. 2" CLEARANCE SHALL BE PROVIDED THROUGHOUT UNLESS NOTED OTHERWISE. TOLERANCE OF +/- 1/8" SHALL BE PERMITTED.
8. ALL LAP SPLICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
9. ALL CONCRETE CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF STANDARD SPECIFICATIONS FOR STATE ROAD AND BRIDGE CONSTRUCTION, KANSAS DEPARTMENT OF TRANSPORTION, LATEST EDITION, AND SPECIAL PROVISIONS.
10. ALL DOWELS SHALL BE ACCURATELY PLACED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF BOTTOM SLAB CONCRETE. STICKING OF DOWELS INTO FRESH OR PARTIALLY HARDENED CONCRETE WILL NOT BE ACCEPTABLE.
11. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3'-0" MAXIMUM SPACING.
12. DO NOT SCALE THESE DRAWINGS FOR DIMENSIONS OR CLEARANCES. SEE PLANS FOR PROPER DIMENSIONS.
13. INCLUSION OF ALL GRATES SHALL BE PRE APPROVED BY CITY ENGINEER.

WSKF ARCHITECTS

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MISSOURI CERTIFICATE OF AUTHORITY NO. E-2006023253
EXPIRES: DECEMBER 31, 2022

STATE OF MISSOURI
SHARON KIM FLANDERS
NUMBER PE-2021027855
PROFESSIONAL ENGINEER
4/18/2022

REVISIONS

PROJECT INFO
210266-000

ENGINEER	DRAWN BY	CHECKED BY
	AVD	AVD

PLATTE RIDGE PARK
FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

DETAILS

P:\210266-000\06-DRAWINGS\CIVIL\CONSTRUCTION DOCS\210266-000 DTLS.DWG

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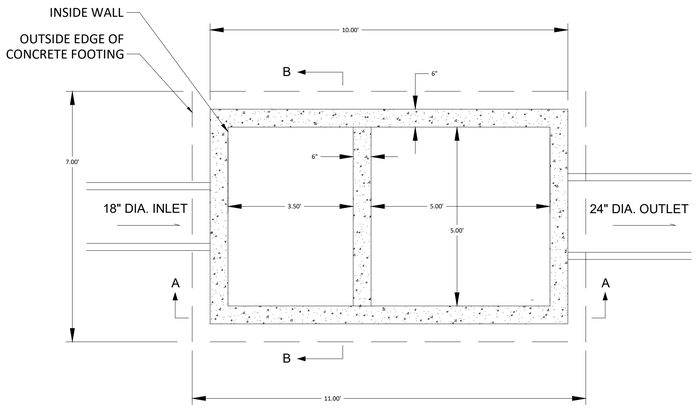

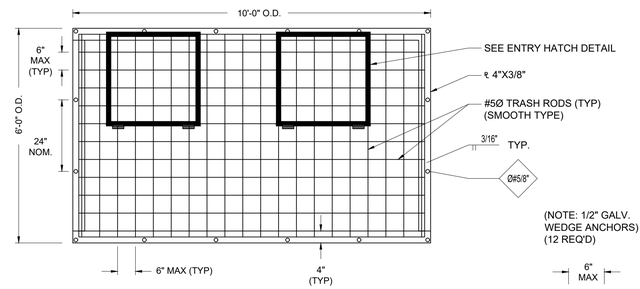

TRASH RACK - PLAN VIEW

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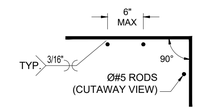
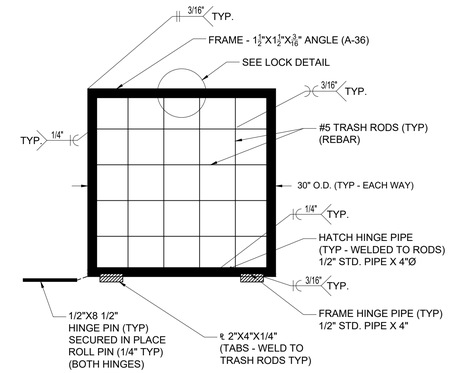


ROD INTERSECT DETAIL

SCALE: NONE



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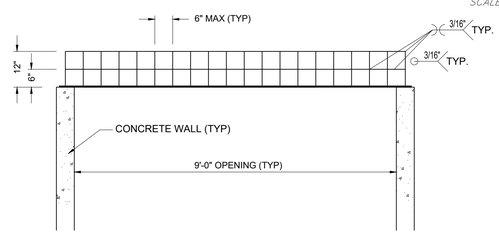
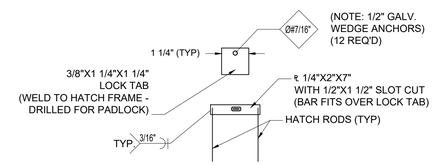


TRASH RACK - SIDE VIEW

SCALE: NONE



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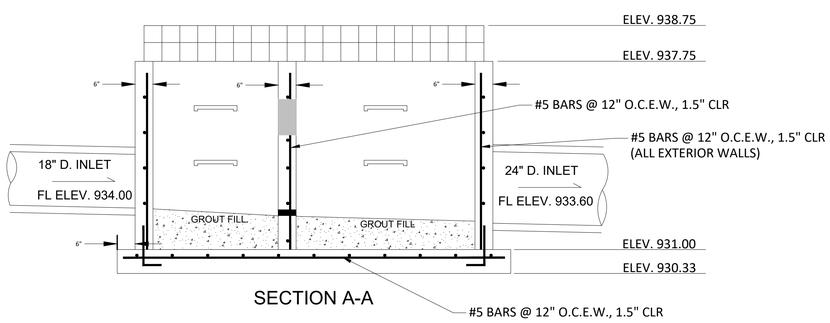
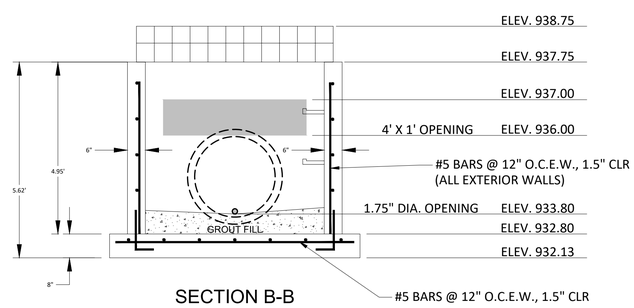


SECTION A-A



SECTION B-B

DRAINAGE BASIN A-1
E2: CONTROL STRUCTURE DETAIL
N.T.S.

NOTE:
SEE SHEET C001 FOR GENERAL NOTES.

WSKF ARCHITECTS

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MISSOURI CERTIFICATE OF AUTHORITY NO. E-2006023253
EXPIRES: DECEMBER 31, 2022

STATE OF MISSOURI
SHARON KIM FLANDERS
NUMBER PE-2021027855
PROFESSIONAL ENGINEER
4/18/2022

REVISIONS

PROJECT INFO
210266-000

ENGINEER	DRAWN BY	CHECKED BY
	AVD	AVD

PLATTE RIDGE PARK
FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

DETENTION DETAILS

P:\210266-000\06-DRAWINGS\CIVIL\CONSTRUCTION DOCS\210266-000 DRAN.DWG

DRAWING NO.
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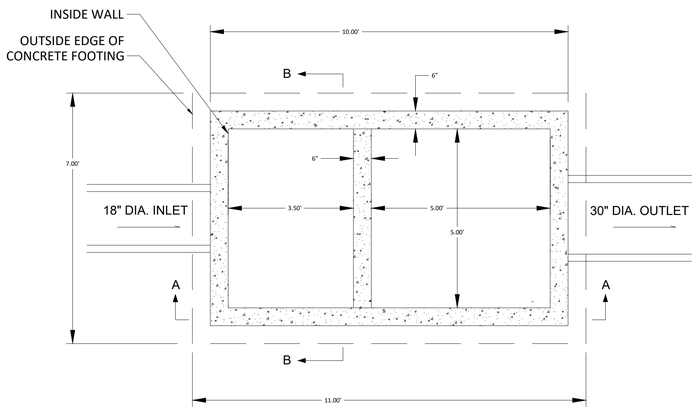
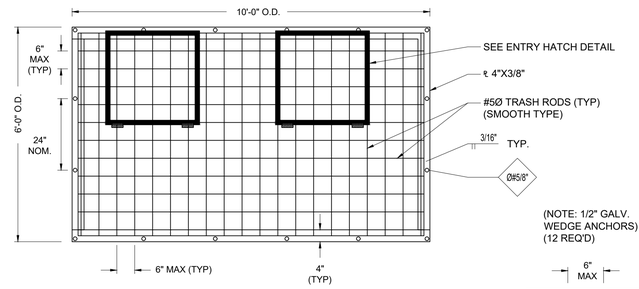
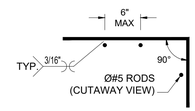




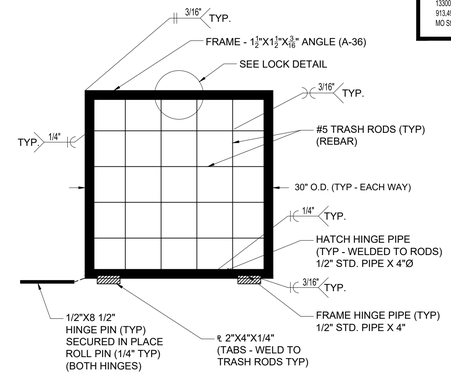
TRASH RACK - PLAN VIEW

SCALE: NONE



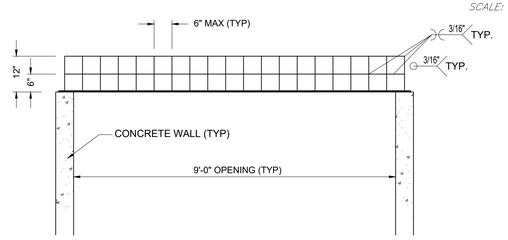
ROD INTERSECT DETAIL

SCALE: NONE



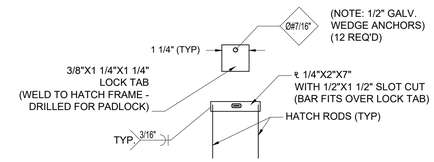
LOCKING HATCH (PLAN)

SCALE: NONE



TRASH RACK - SIDE VIEW

SCALE: NONE



LOCK DETAIL (PLAN)

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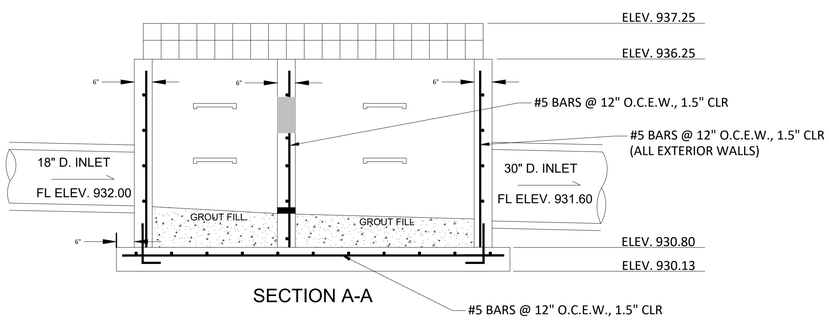
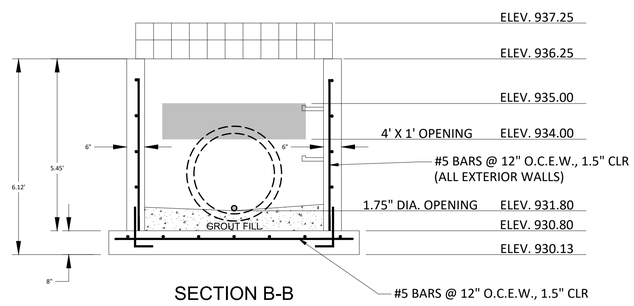


SECTION A-A



SECTION B-B

DRAINAGE BASIN A-2
D2: CONTROL STRUCTURE DETAIL
N.T.S.

NOTE:
SEE SHEET C001 FOR GENERAL NOTES.

WSKF ARCHITECTS

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EXPIRES: DECEMBER 31, 2022

STATE OF MISSOURI
SHARON KIM FLANDERS
NUMBER PE-2021027855
PROFESSIONAL ENGINEER
4/18/2022

REVISIONS

PROJECT INFO
210266-000

ENGINEER	DRAWN BY	CHECKED BY
	AVD	AVD

PLATTE RIDGE PARK
FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

DETENTION DETAILS

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DRAWING NO.
C604

WSKF Architects
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110 Armour Rd.
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LEGEND

15	DIRECTION OF TRAVEL
	COMBINED OCCUPANCY LOAD
15	DIRECTION OF TRAVEL
	ROOM OCCUPANCY LOAD
F.E.	FIRE EXTINGUISHER & BRACKET
F.E.C.	FIRE EXTINGUISHER & CABINET

SYMBOLS

Detail Number / **Detail Section** / Sheet Number	A5 / A101 SIM
Detail Number / **Building Section** / Sheet Number	A5 / A101 SIM
Detail Number / **Callout** / Sheet Number	1 / A102 SIM
Detail Number / **Elevation** / Sheet Number	A1 / A1.01
Room Name / **Room Designation** / Room Number	Room name / 101
Door Number	101
Wall Type	S3AA.1
Window Designation	A
Keynote Designation	1
Spot Elevation	
Revision Symbol	1

ROOM OCCUPANCY SCHEDULE

ROOM NO.	ROOM NAME	OCC TYPE	AREA	SF PER PERSON	# OF OCC
100	STORAGE	S	663 SF	300	3
101	MECH.	B	162 SF	300	1
102	WARMING KITCHEN	B	265 SF	200	2
103	MEN'S	B	216 SF	150	2
104	UTILITY	B	72 SF	300	1
105	WOMENS	B	216 SF	150	2
					11

ADOPTED CODES

PLATTE COUNTY, MO

2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL PLUMBING CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL FUEL GAS CODE
2017 NATIONAL ELECTRICAL CODE
2018 INTERNATIONAL FIRE CODE
2009 ANSI A117.1

CODE REVIEW INFORMATION

CHAPTER 3 - OCCUPANCY CLASSIFICATION AND USE

USE AND OCCUPANCY
GROUP A-5 (3 FOOTBALL FIELDS, NEAR BUILDING)
GROUP B
GROUP S-2
BUILDING IS NON-SPRINKLERED

CHAPTER 5 - GENERAL BUILDING HEIGHTS AND AREAS
BUILDING HEIGHT (PER TABLE 504.3 & 504.4)
B/S-2 (V-B) ALLOWABLE 2 STORIES (40 FT)
ACTUAL 1 STORY (16 FT)
BUILDING AREA (PER TABLE 506.2)
B/S-2 (V-B) ALLOWABLE 13,500 SF
ACTUAL 1,846 SF
MIXED USE AND OCCUPANCY
SEPARATED OCCUPANCIES (PER TABLE 508.4)
GROUP B / S-2 NO SEPERATION REQ

CHAPTER 6 - TYPE OF CONSTRUCTION
FIRE RESISTANCE REQUIREMENTS (TABLE 601)

CONSTRUCTION TYPE	**V-B**
STRUCTURAL FRAME	0 HR
EXTERIOR BEARING WALLS	0 HR
INTERIOR BEARING WALLS	0 HR
INTERIOR NON-BEARING WALLS	0 HR
FLOOR CONSTRUCTION	0 HR
ROOF CONSTRUCTION	0 HR

CHAPTER 8 - INTERIOR FINISHES
FINISH REQUIREMENTS BY OCCUPANCY (TABLE 803.13)

GROUP	**B**	**S**
EXIT STAIRWAY & PASSAGEWAY	A	B
CORRIDORS	B	B
ROOMS & ENCLOSED SPACES	C	C

CHAPTER 9 - FIRE PROTECTION AND LIFE SAFTEY SYSTEMS
PORTABLE FIRE EXTINGUISHERS (906)
WITHIN 30 FT OF COMMERCIAL COOKING EQUIPMENT
MAX TRAVEL DISTANCE 75 FT

CHAPTER 10 - MEANS OF EGRESS
OCCUPANCY LOAD
REFER TO ROOM OCCUPANCY SCHEDULE & CODE PLAN
TOTAL OCCUPANCY: 11

TOTAL EGRESS WIDTH PROVIDED
SEE CODE PLAN FOR WIDTHS AT EACH EXIT

MAX TRAVEL DISTANCE (PER TABLE 1017.2)
REQUIRED 200 FT
PROVIDED ~34 FT

CHAPTER 13 - ENERGY EFFICIENCY
BUILDING TO COMPLY W/ IECC

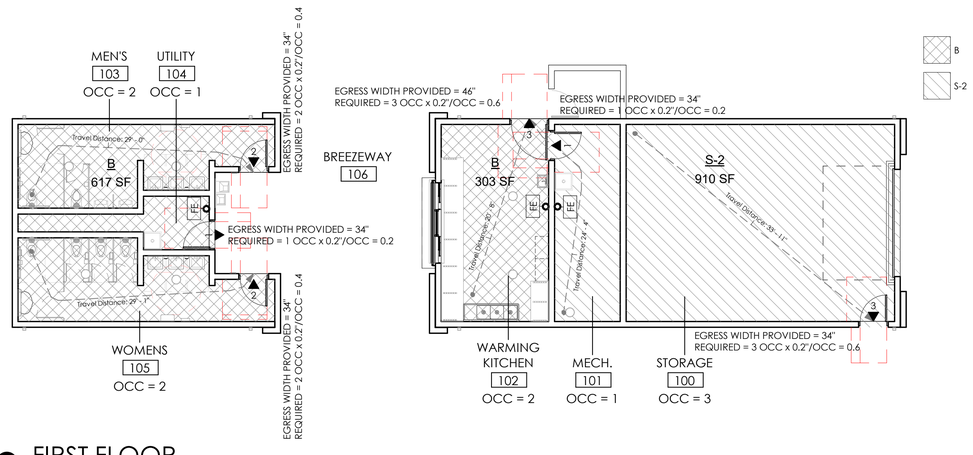
CHAPTER 29 - PLUMBING SYSTEMS
FIXTURE REQUIREMENTS (TABLE 2902.1)
A-5 = 3 FOOTBALL FIELDS @ 100 OCC EA.
B OCCUPANCY = 8
S-2 OCCUPANCY = 3
TOTAL OCC = 311

WATER CLOSETS REQUIRED
A-5 OCC = 311 OCC / 2 = 156 OCC
MEN =1/75 = 156/75 = **2.08 WC**
WOMEN = 1/40 = 156/40 = **3.9 WC**
WATER CLOSETS PROVIDED
MEN = **2 WC + 2 URINALS**
WOMEN = **4 WC**

LAVATORIES REQUIRED
A-5 OCC = 311 OCC / 2 = 156 OCC
MEN = 1/200 = 156/200 = **.78 LAV**
WOMEN = 1/150 = 156/150 = **1.04 LAV**
LAVATORIES PROVIDED
MEN = **3 LAV**
WOMEN = **3 LAV**

DRINKING FOUNTAINS REQUIRED
A-5 OCC = 311 OCC
1/1000 = 311/1000 = **.31 DF**
DRINKING FOUNTAINS PROVIDED
TOTAL = **2 DF**

SERVICE SINK REQUIRED
B/S-2 OCC = **1 SERVICE SINK**
SERVICE SINK PROVIDED
TOTAL = **2 SERVICE SINKS**



A10 FIRST FLOOR
1/8" = 1'-0"

I HEREBY CERTIFY THAT THE DOCUMENTS INTENDED TO BE AUTHENTICATED BY MY SEAL ARE LIMITED TO THE COVER AND THOSE SHEETS LISTED UNDER THE ARCHITECTURAL HEADER OF THE DRAWING LIST. I HEREBY DISCLAIM RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OF PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

PRINCIPAL 04.18.22 DATE

MISSOURI LICENSE NO. #A-2011006178

STATE OF MISSOURI
DALYN NOVAK
NUMBER
A-2011006178
ARCHITECT
4.18.22

Dalyn Novak - Architect
MO # A-2011006178

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LISCENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MISSOURI

No.	Description	Date

PROJECT NUMBER	SET ISSUE DATE
210266-000	04/13/2022

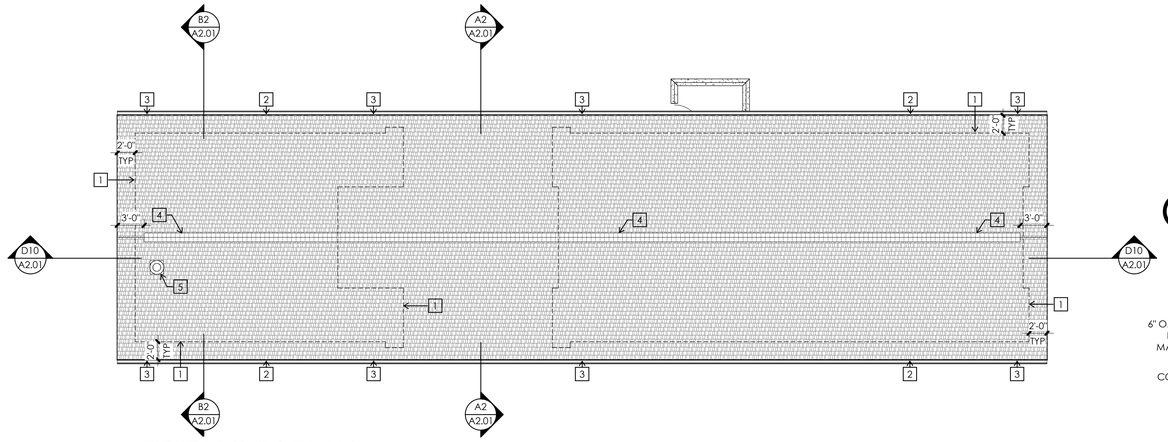
ENGINEER DRAWN BY CHECKED BY

PLATTE RIDGE PARK - FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

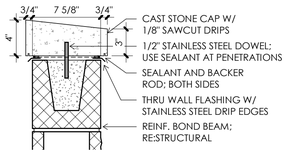
CODE REVIEW

C:\Users\JamesLukacovic\Desktop\Revit_local\210266 - Platte Ridge Park_CENTRAL_jlukacovic@wskfarch.com.rvt

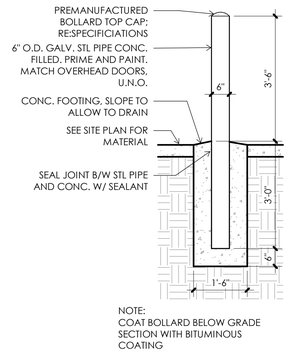
DRAWING NO.
G0.01



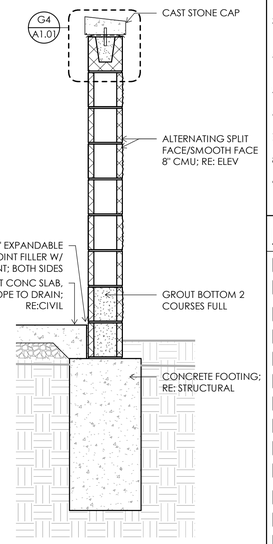
F10 FIRST FLOOR PLAN
1/8" = 1'-0"



G4 WALL DETAIL
1 1/2" = 1'-0"



E4 BOLLARD DETAIL
1/2" = 1'-0"



E3 WALL SECTION
3/4" = 1'-0"

GENERAL NOTES:

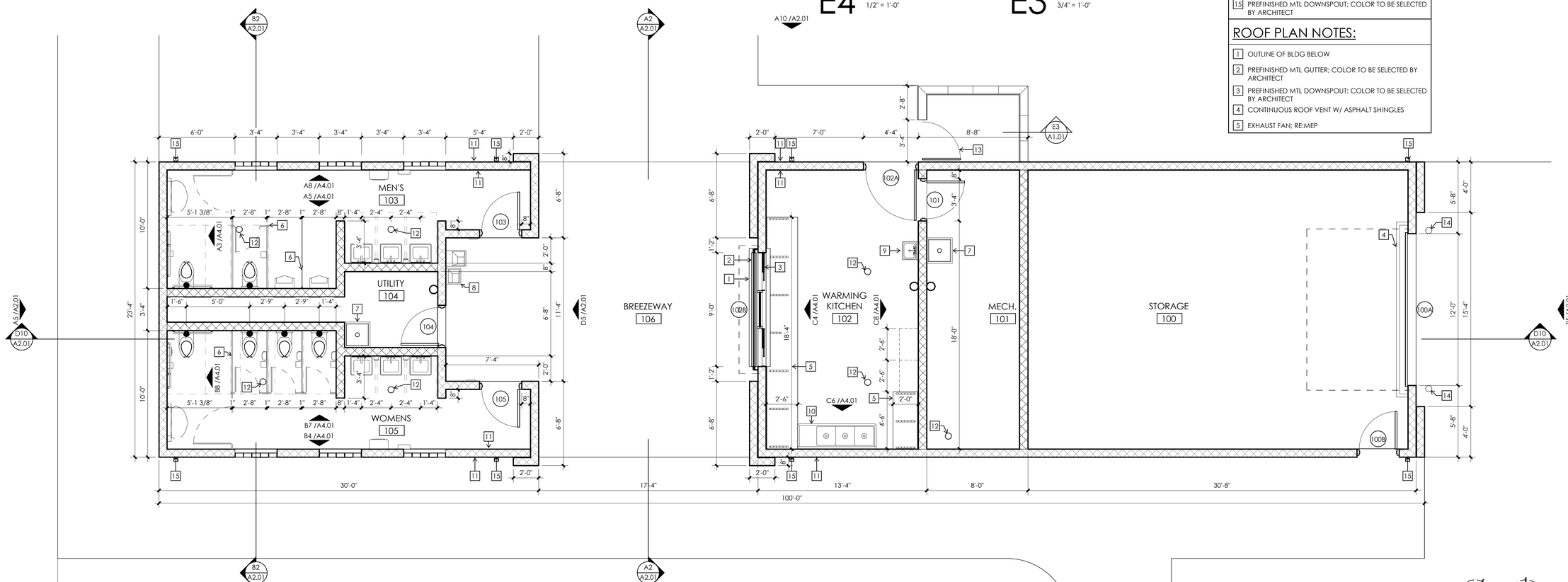
1. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND EXISTING CONDITIONS. ANY DISCREPANCIES WHICH WILL PREVENT THE ACCOMPLISHMENT OF INTENT SHOWN ON DRAWINGS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
2. WHERE A CONDITION IS NOTED TYPICAL' (TYP.), IT IS UNDERSTOOD THAT ALL SIMILAR CONDITIONS BE CONSTRUCTED OF THE SAME MATERIALS AND/OR DIMENSIONS.
3. ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF CMU, FACE OF CONCRETE FOUNDATION WALL, OR CENTER OF STL. STRUCTURE, UNLESS NOTED OTHERWISE.
4. ALL DOOR OPENINGS ARE TO BE LOCATED 4" FROM HINGE SIDE OF ADJACENT WALL UNLESS CENTERED IN ROOM OR NOTED OTHERWISE.
5. COORDINATE ROOF AND FLOOR PENETRATIONS W/ MEP AND STRUCTURAL DRAWINGS.
6. SIGNAGE SCHEDULE ON ***A7.01*** FOR INTERIOR WALL MOUNTED ADA SIGNAGE AND LOCATIONS.
7. REFER TO ROOM FINISH SCHEDULE ON ***A7.01*** FOR INTERIOR FINISHES.
8. REFER TO TYPICAL ADA FIXTURE MOUNTING GUIDE ON ***A7.01***.
9. REFER TO ENLARGED FLOOR PLANS FOR FURTHER INFORMATION ON PARTITION TYPE TAGS, DIMENSIONS, ETC.

PLAN NOTES:

1. STAINLESS STEEL TRANSACTION COUNTER; RE:A8/A6.01
2. PREFINISHED COILING COUNTER DOOR W/ WEATHERSEAL AND LOCKING HARDWARE; RE:A8/A6.01
3. (3) SLIDING TRANSACTION WINDOWS; RE:A4/A3.01
4. STL ANGLE THRESHOLD; RE:A10/A6.01
5. COUNTERTOP
6. TOILET / URINAL PARTITIONS
7. FLOOR MOUNTED SERVICE/MOP SINK; RE:MEP
8. WALL MOUNTED DRINKING FOUNTAINS; RE:MEP
9. WALL MOUNTED FOOD PREP HAND WASH SINK; RE:MEP
10. 3 COMPARTMENT STAINLESS STEEL SINK W/ DRAIN BOARDS; RE:MEP
11. HOSE BIB; RE:MEP
12. FLOOR DRAIN; RE:MEP
13. STL GATE; COLOR:BLACK
14. 6" STL BOLLARD W/ CAP; RE:E4/A1.01
15. PREFINISHED MTL DOWNSPOUT; COLOR TO BE SELECTED BY ARCHITECT

ROOF PLAN NOTES:

1. OUTLINE OF BLDG BELOW
2. PREFINISHED MTL GUTTER; COLOR TO BE SELECTED BY ARCHITECT
3. PREFINISHED MTL DOWNSPOUT; COLOR TO BE SELECTED BY ARCHITECT
4. CONTINUOUS ROOF VENT W/ ASPHALT SHINGLES
5. EXHAUST FAN; RE:MEP



A10 FIRST FLOOR PLAN
1/4" = 1'-0"

B10 /A2.01

TRUE NORTH

PLAN NORTH

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STATE OF MISSOURI
DALYN NOVAK
NUMBER
A-2011006178
ARCHITECT
4.18.22

Dalyn Novak - Architect
MO # A-2011006178

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No.	Description	Date

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210266-000	04/13/2022

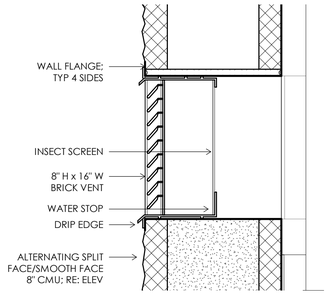
ENGINEER	DRAWN BY	CHECKED BY

PLATTE RIDGE PARK - FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

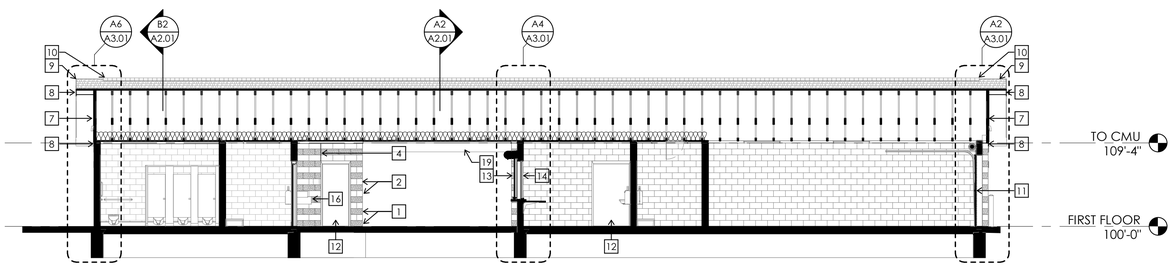
FIRST FLOOR PLAN

C:\Users\JamesLukacovic\Desktop\Revit_local\21066 - Platte Ridge Park_CENTRAL_jlukacovic@wskfarch.com.rvt

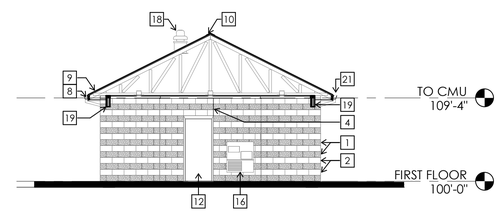
DRAWING NO.
A1.01



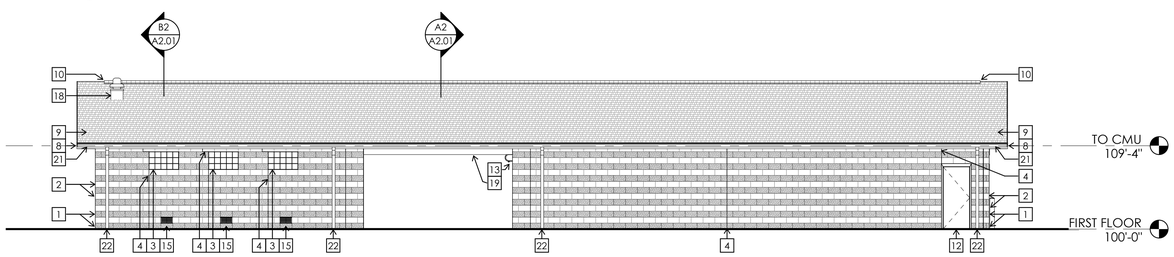
G8 WALL DETAIL
3" = 1'-0"



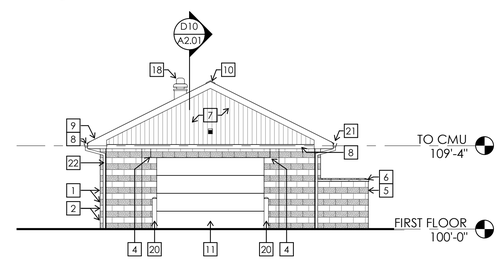
D10 Section N/S
1/8" = 1'-0"



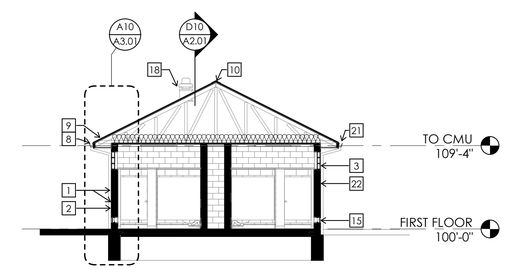
D5 102 - S
1/8" = 1'-0"



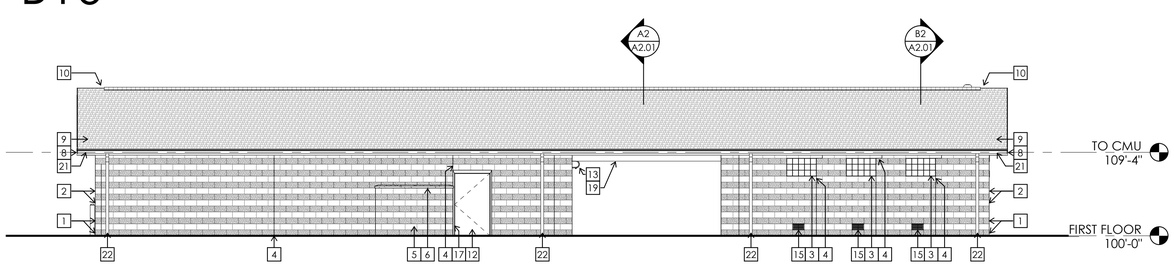
B10 Exterior - West
1/8" = 1'-0"



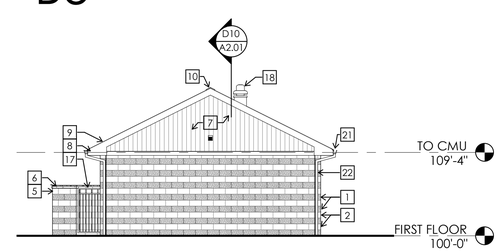
B5 Exterior - South
1/8" = 1'-0"



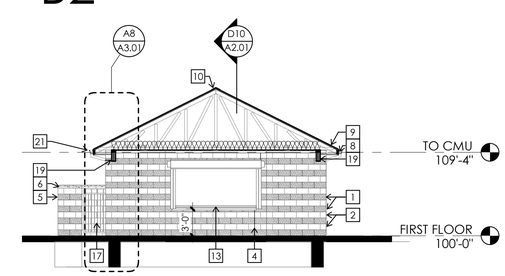
B2 Section E/W
1/8" = 1'-0"



A10 Exterior - East
1/8" = 1'-0"



A5 Exterior - North
1/8" = 1'-0"



A2 Section E/W
1/8" = 1'-0"

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2. WHERE A CONDITION IS NOTED 'TYPICAL' (TYP.), IT IS UNDERSTOOD THAT ALL SIMILAR CONDITIONS BE CONSTRUCTED OF THE SAME MATERIALS AND/OR DIMENSIONS.

ELEVATION NOTES:

1. 8" SPLIT FACE CMU; COLOR TO MATCH EXISTING BUILDINGS; ARCHITECT TO MAKE SELECTION FROM MANUFACTURER'S FULL RANGE OF COLORS
2. 8" SMOOTH FACE CMU; COLOR TO MATCH EXISTING BUILDINGS; ARCHITECT TO MAKE SELECTION FROM MANUFACTURER'S FULL RANGE OF COLORS
3. 8"x8"x4" GLASS MASONRY UNIT
4. CMU CONTROL JOINT
5. CMU SCREEN WALL
6. CAST STONE CAP; COLOR:TO MATCH EXISTING, ARCHITECT TO MAKE SELECTION FROM MANUFACTURER'S FULL RANGE OF COLORS
7. FIBER CEMENT SIDING; PAINT, COLOR:MATCH EXISTING BUILDING
8. FIBER CEMENT FASCIA/TRIM; PAINT COLOR:MATCH EXISTING BUILDING
9. ASPHALT COMPOSITION SHINGLES
10. RIDGE VENT
11. PREFINISHED OVERHEAD DOOR: ARCHITECT TO MAKE SELECTION FROM MANUFACTURER'S FULL RANGE OF COLORS
12. HM DOOR AND FRAME; PAINT, COLOR:MATCH EXISTING BUILDING
13. COILING COUNTER DOOR W/ STAINLESS STEEL TRANSACTION COUNTER
14. SLIDING TRANSACTION WINDOW W/ CLEAR ANNODIZED ALUMINUM FRAME
15. 8x16 LOUVER W/ INSECT SCREEN; PAINT, COLOR:MATCH ADJACENT WALL RE:G8/A3.01
16. DRINKING FOUNTAIN; RE:MEP
17. STEEL GATE AND LATCH; COLOR: BLACK
18. EXHAUST FAN; RE:MEP
19. LVL BEAM; RE:STRUCTURAL
20. 6" STL BOLLARD W/ CAP; RE:E4/A1.01
21. PREFINISHED MTL GUTTER; COLOR TO BE SELECTED BY ARCHITECT
22. PREFINISHED MTL DOWNSPOUT; COLOR TO BE SELECTED BY ARCHITECT

WSKF Architects
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DALYN NOVAK
NUMBER A-2011006178
ARCHITECT
4.18.22

Dalyn Novak - Architect
MO # A-2011006178

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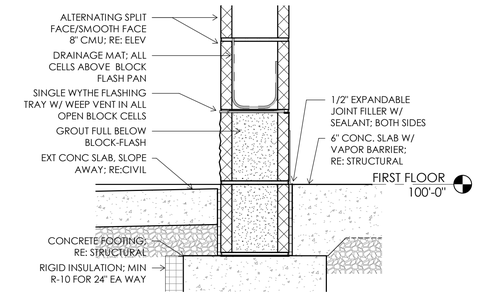
ENGINEER | DRAWN BY | CHECKED BY

PLATTE RIDGE PARK - FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

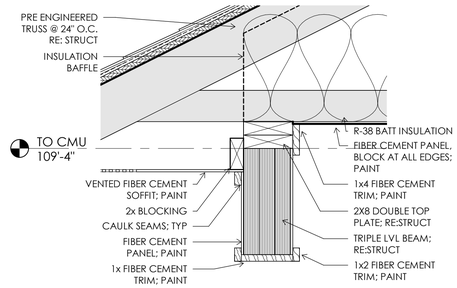
ELEVATIONS / BUILDING SECTIONS

C:\Users\James.ukacovic\Desktop\Revit_local\21066 - Platte Ridge Park_CENTRAL_jjukacovic@wskfarch.com.rvt

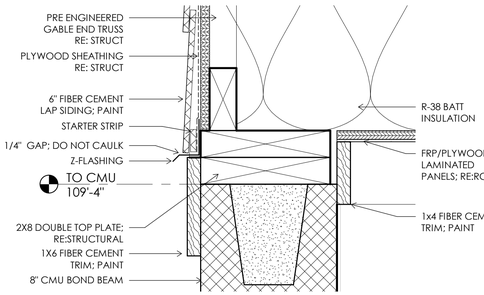
DRAWING NO.
A2.01



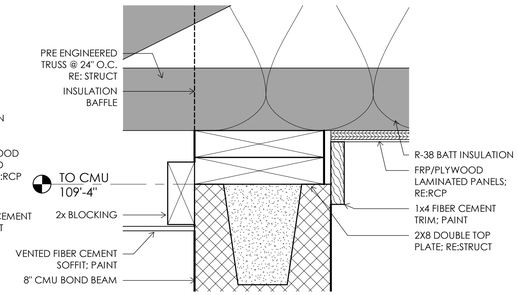
G10 WALL DETAIL
1 1/2" = 1'-0"



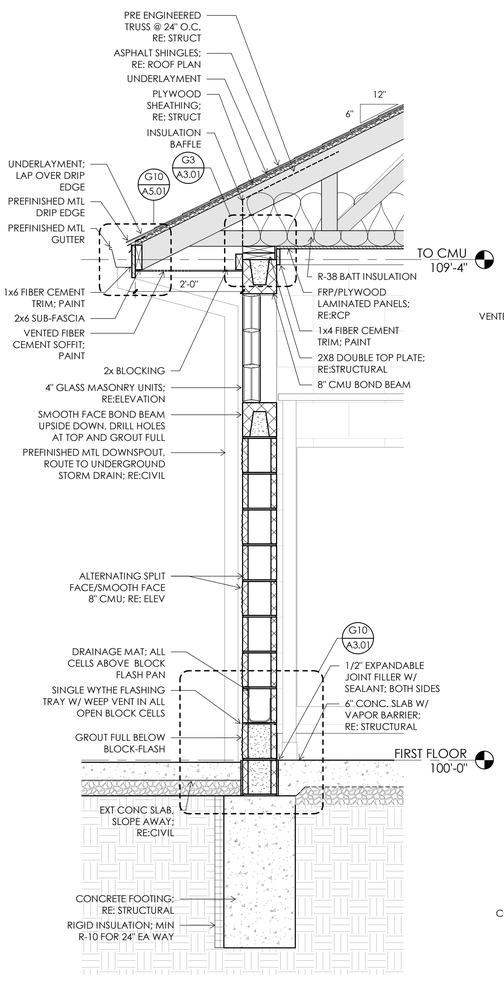
G7 WALL DETAIL
1 1/2" = 1'-0"



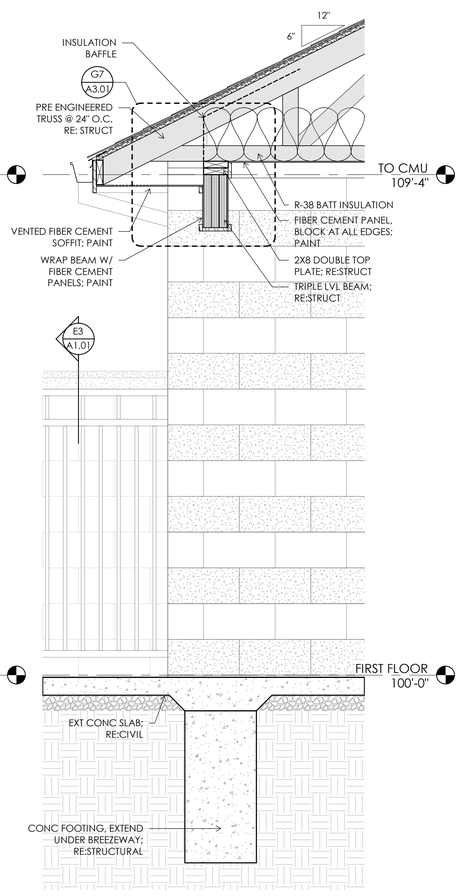
G5 WALL DETAIL
3" = 1'-0"



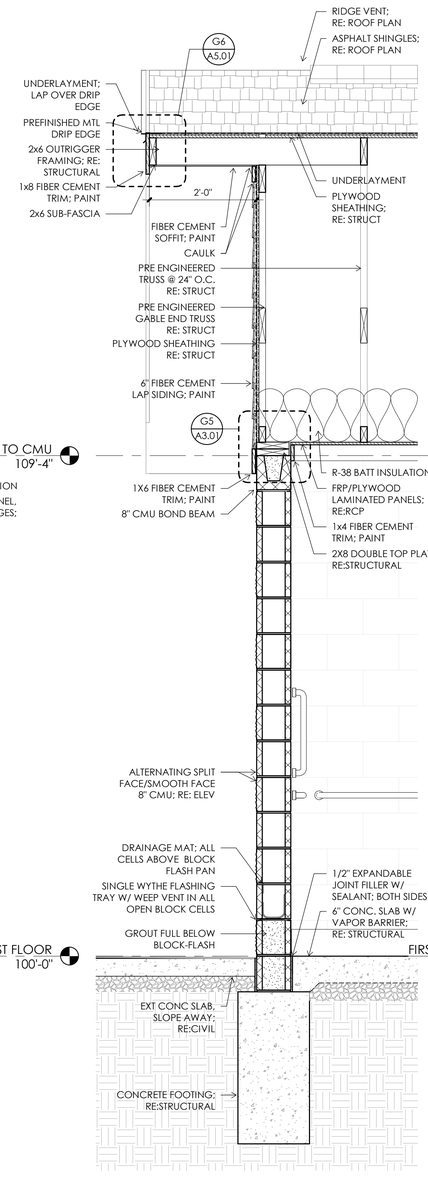
G3 WALL DETAIL
3" = 1'-0"



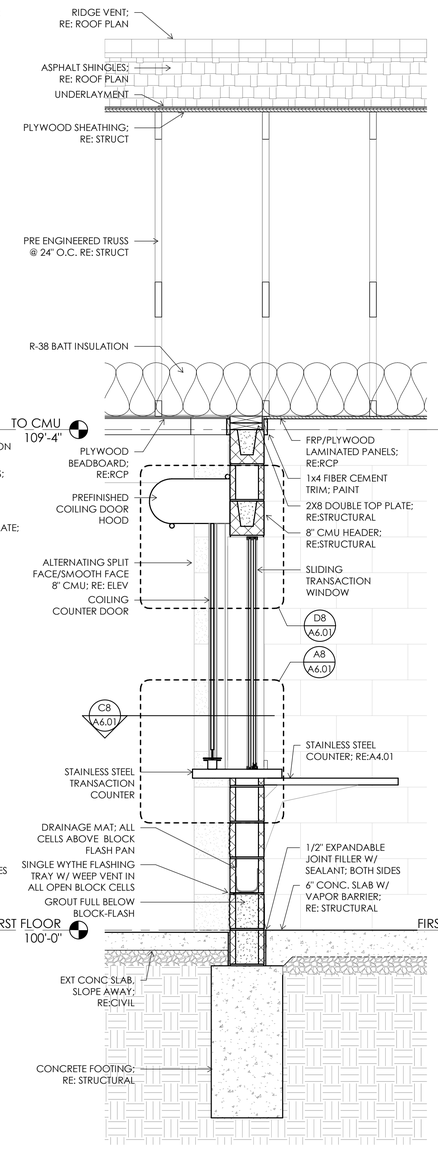
A10 Typ CMU Section
3/4" = 1'-0"



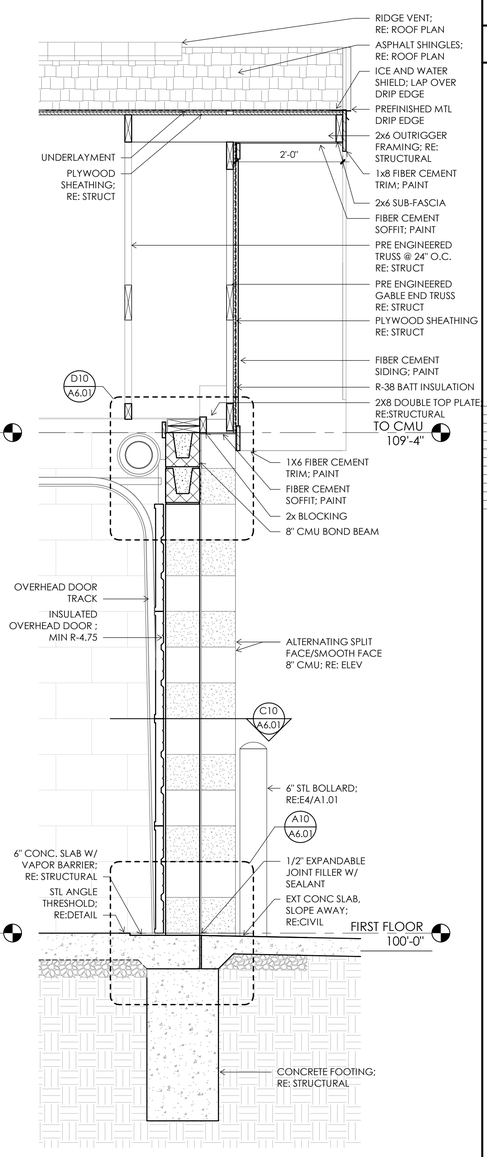
A8 Breezeway
3/4" = 1'-0"



A6 Gable End
3/4" = 1'-0"



A4 Counter Door
3/4" = 1'-0"



A2 OHD Door
3/4" = 1'-0"

WSKF Architects
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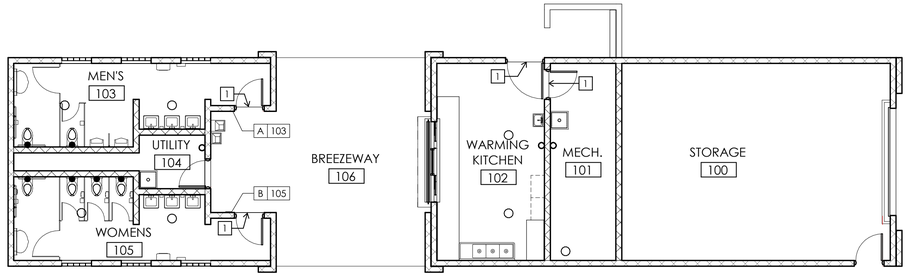
17130 HIGHWAY 371, PLATTE CITY, MO 64079

WALL SECTIONS & DETAILS

C:\Users\James.ukacovic\Desktop\Revit_local\21066 - Platte Ridge Park_CENTRAL_jlukacovic@wskfarch.com.rvt

DRAWING NO.
A3.01



G8 FINISH FLOOR PLAN
1/8" = 1'-0"

FINISH PLAN GENERAL NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND EXISTING CONDITIONS. ANY DISCREPANCIES WHICH WILL PREVENT THE ACCOMPLISHMENT OF INTENT SHOWN ON DRAWINGS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
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- REFER TO ROOM FINISH SCHEDULES ON A7.01 FOR INTERIOR FINISH INFORMATION.
- REFER TO SIGNAGE SCHEDULE ON A7.01 FOR INTERIOR WALL MOUNTED ADA SIGNAGE AND LOCATIONS.

FINISH PLAN NOTES:

1 METAL TRANSACTION FROM RESINOUS FLOORING TO CONCRETE

FINISH PLAN LEGEND:

A 100 SIGNAGE

WSKF Architects
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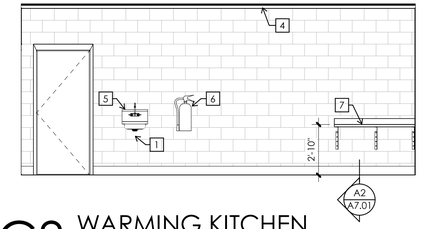
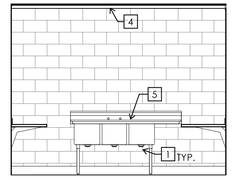
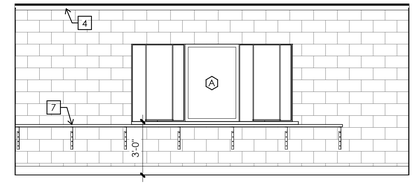


C8 WARMING KITCHEN
1/4" = 1'-0"



C6 WARMING KITCHEN
1/4" = 1'-0"



C4 WARMING KITCHEN
1/4" = 1'-0"

GENERAL ELEVATION NOTES:

- FOR ITEMS LABELED T# REFER TO SPEC SECTION 102800 - TOILET, BATH, AND LAUNDRY ACCESSORIES.
- ALL DIMENSIONS ON INTERIOR ELEVATIONS ARE FROM FINISHED SURFACES.
- OFOI= OWNER FURNISHED, OWNER INSTALLED.
- OFCI= OWNER FURNISHED, CONTRACTOR INSTALLED.

ELEVATION NOTES:

1 INSULATED PIPE WRAP, RE: PLUMBING

2 TOILET PARTITION, RE: SPEC SECTION 102113.19

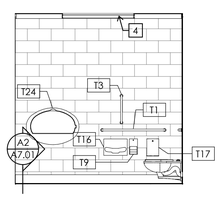
3 COUNTERTOP ON SUPPORT BRACKETS, 36" O.C.

4 PAINT TRIM TO MATCH WALL

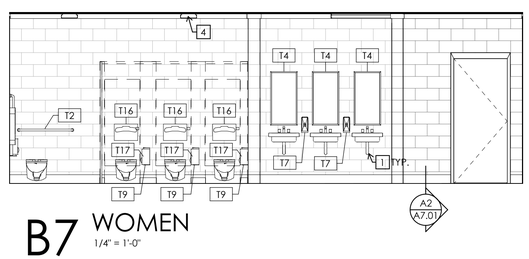
5 SINK; RE: PLUMBING

6 FIRE EXTINGUISHER, RE:G0.01

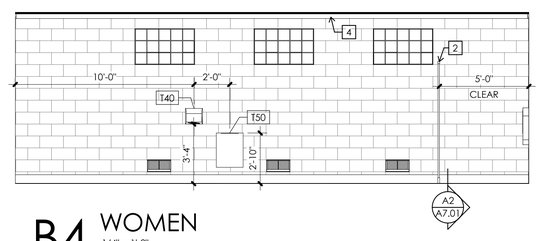
7 COUNTERTOP ON SUPPORT BRACKETS; RE: FINISH SCHEDULE



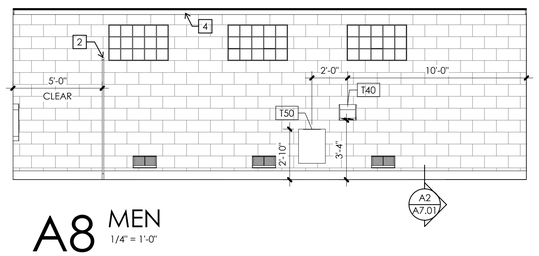
B8 WOMEN
1/4" = 1'-0"



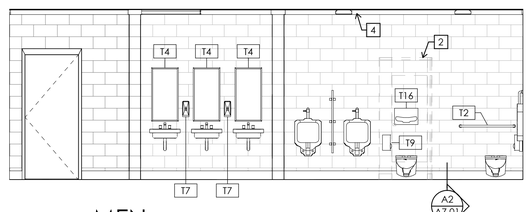
B7 WOMEN
1/4" = 1'-0"



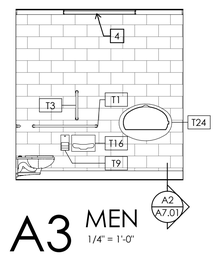
B4 WOMEN
1/4" = 1'-0"



A8 MEN
1/4" = 1'-0"



A5 MEN
1/4" = 1'-0"



A3 MEN
1/4" = 1'-0"

PROJECT NUMBER	SET ISSUE DATE
210266-000	04/13/2022

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INTERIOR ELEVATIONS

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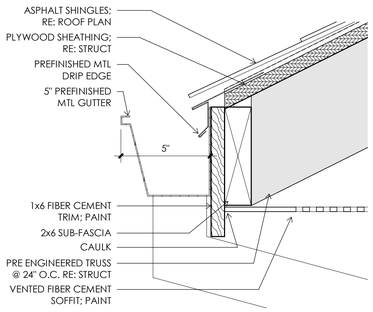
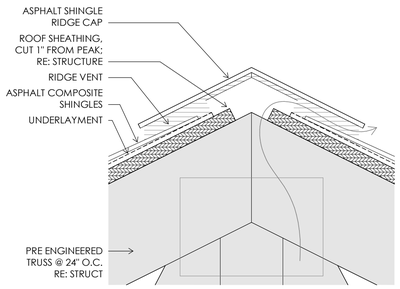
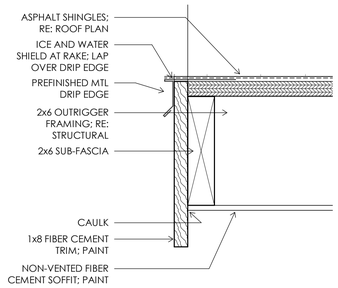
A4.01



G10 ROOF DETAIL
3" = 1'-0"



G8 ROOF DETAIL
3" = 1'-0"



G6 ROOF DETAIL
3" = 1'-0"

GENERAL NOTES:

- RUN FRAMING FOR SOFFIT UP TO STRUCTURE W/ KICKERS @ 24" O.C. U.N.O.
- REFER TO ELECTRICAL FOR LIGHT FIXTURE TYPES AND NOTES.
- REFER TO MECHANCIAL FOR SUPPLY AND RETURN REGISTER LOCATIONS.

RCP NOTES:

1. OPEN TO STRUCTURE
2. FRP PANELS ADHERED TO 5/8" EXTERIOR GRADE PLYWOOD
3. FIBER CEMENT SOFFIT PANELS W/ 1x3 BATTENS; PAINT, COLOR: MATCH EXISTING BUILDING
4. VENTED FIBER CEMENT SOFFIT; PAINT, COLOR: MATCH EXISTING BUILDING
5. NON-VENTED FIBER CEMENT SOFFIT; PAINT, COLOR: MATCH EXISTING BUILDING
6. FIBER CEMENT FASCIA TRIM; PAINT, COLOR: MATCH EXISTING BUILDING
7. BEAM; RE:STRUCTURAL
8. PREFINISHED MTL GUTTER; COLOR TO BE SELECTED BY ARCHITECT
9. PREFINISHED MTL DOWNSPOUT; COLOR TO BE SELECTED BY ARCHITECT
10. OVERHEAD DOOR CLEARANCE
11. COILING COUNTER DOOR HOOD
12. 24"x48" ATTIC ACCESS PANEL; SPACE BTW ROOF TRUSSES
13. LIGHT FIXTURE; RE:MEP
14. AIR TERMINAL; RE:MEP

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STATE OF MISSOURI
DALYN NOVAK
NUMBER
A-2011006178
ARCHITECT
4.18.22

Dalyn Novak - Architect
MO # A-2011006178

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LISCENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MISSOURI

No.	Description	Date

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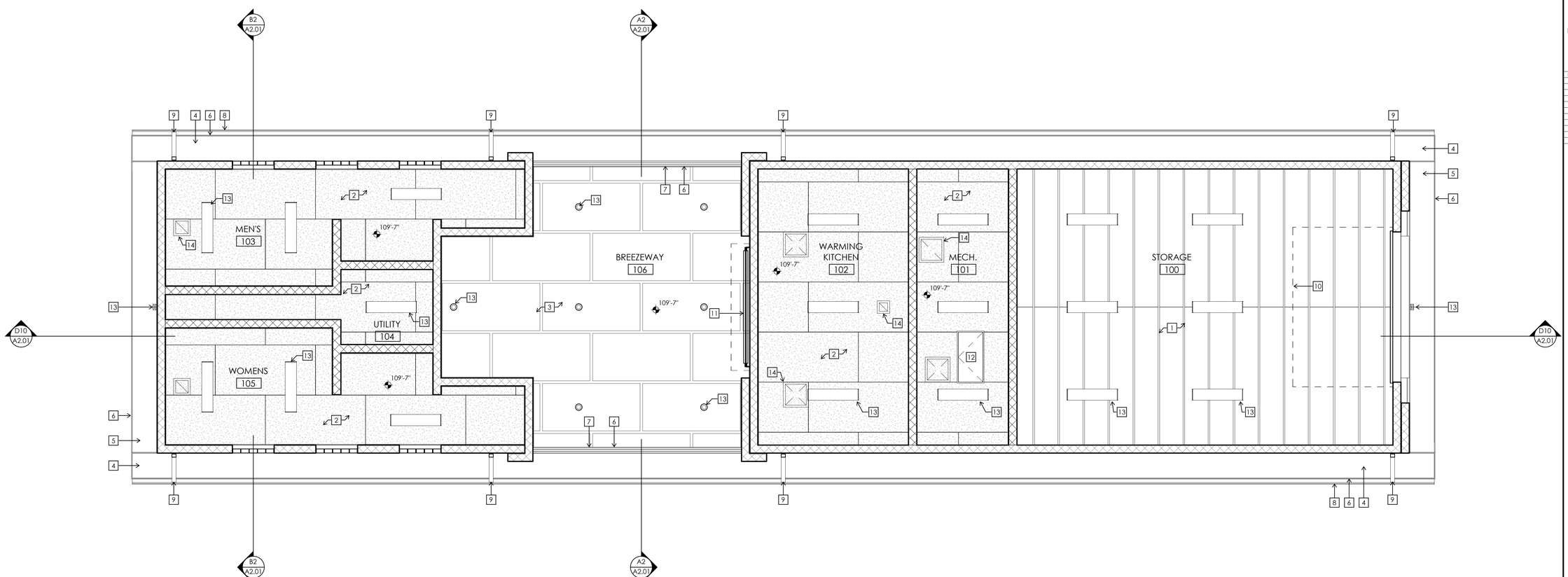
210266-000	04/13/2022

ENGINEER | DRAWN BY | CHECKED BY



A10 REFLECTED CEILING PLAN
1/4" = 1'-0"

PLATTE RIDGE PARK - FOOTBALL COMPLEX IMPROVEMENTS
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REFLECTED CEILING PLAN

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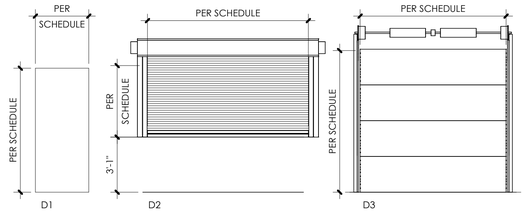
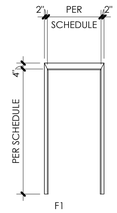
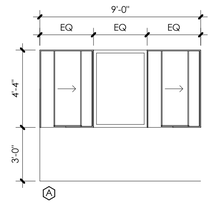
DRAWING NO.
A5.01



DOOR TYPES
1/4" = 1'-0"



FRAME TYPES
1/4" = 1'-0"



(2)SLIDING TRANSACTION WINDOW W/ FIXED CENTER

FRAME TYPES
1/4" = 1'-0"

DOOR SCHEDULE

DOOR INFORMATION						FRAME INFORMATION						
NO.	WIDTH	HEIGHT	TYPE	MATERIAL	FIRE RATING	TYPE	MATERIAL	DEPTH	HEAD	JAMB	THRESHOLD	REMARKS
100A	12'-0"	8'-0"	D3	INSUL STL	-		STL		D10/A6.01	C10/A6.01	A10/A6.01	
100B	3'-0"	7'-0"	D1	HM	-	F1	HM	5 3/4"	D6/A6.01	C6/A6.01	A6/A6.01	
101	3'-0"	7'-0"	D1	HM	-	F1	HM	5 3/4"	D6/A6.01	C6/A6.01	A6/A6.01	
102A	4'-0"	7'-0"	D1	HM	-	F1	HM	5 3/4"	D6/A6.01	C6/A6.01	A6/A6.01	
102B	9'-0"	4'-4"	D2	STL	-		STL		D8/A6.01	C8/A6.01	A8/A6.01	
103	3'-0"	7'-0"	D1	HM	-	F1	HM	5 3/4"	D6/A6.01	C6/A6.01	A6/A6.01	
104	3'-0"	7'-0"	D1	HM	-	F1	HM	5 3/4"	D6/A6.01	C6/A6.01	A6/A6.01	
105	3'-0"	7'-0"	D1	HM	-	F1	HM	5 3/4"	D6/A6.01	C6/A6.01	A6/A6.01	

DOOR SCHEDULE GENERAL NOTES:

- HOLLOW METAL DOORS TO BE 1 3/4" THICK U.N.O.
- EXTERIOR HOLLOW METAL DOORS TO BE INSULATED.

DOOR SCHEDULE KEY NOTES:

1. -

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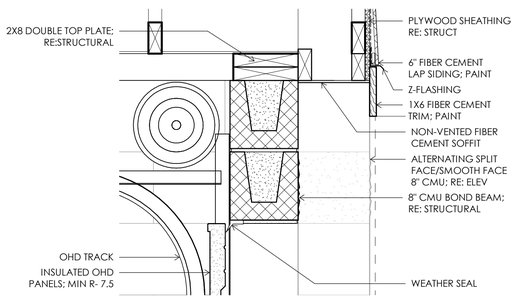
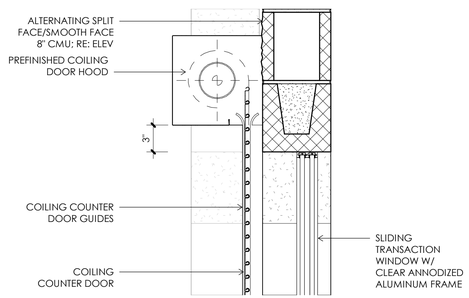
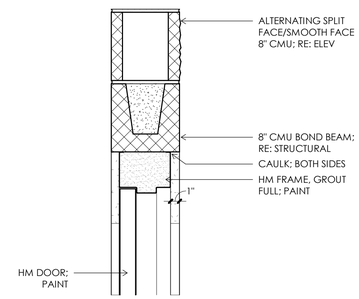


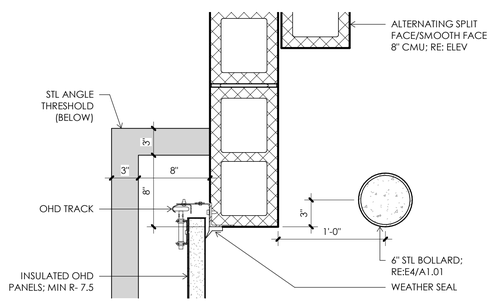
D10 HEAD DETAIL
1 1/2" = 1'-0"



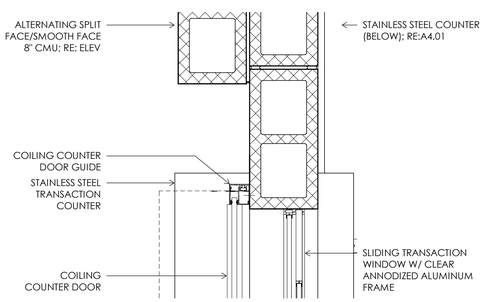
D8 HEAD DETAIL
1 1/2" = 1'-0"



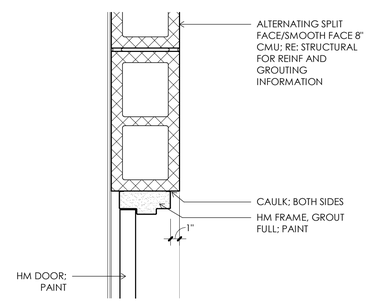
D6 HEAD DETAIL
1 1/2" = 1'-0"



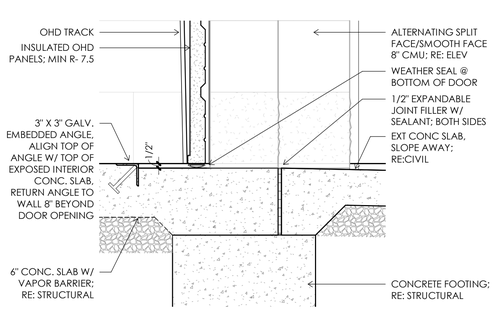
C10 JAMB DETAIL
1 1/2" = 1'-0"



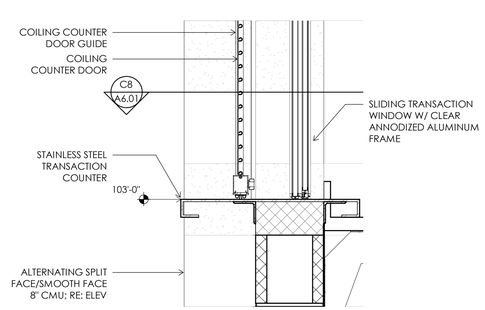
C8 JAMB DETAIL
1 1/2" = 1'-0"



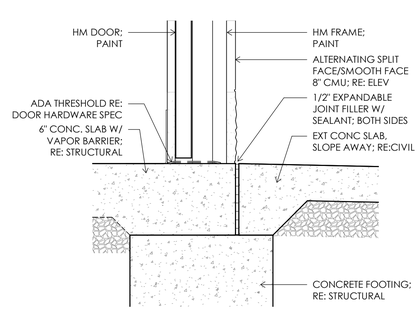
C6 JAMB DETAIL
1 1/2" = 1'-0"



A10 THRESHOLD DETAIL
1 1/2" = 1'-0"



A8 SILL DETAIL
1 1/2" = 1'-0"



A6 THRESHOLD DETAIL
1 1/2" = 1'-0"

STATE OF MISSOURI
DALYN NOVAK
NUMBER
A-2011006178
ARCHITECT
4.18.22

Dalyn Novak - Architect
MO # A-2011006178

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No.	Description	Date

PROJECT NUMBER 210266-000
SET ISSUE DATE 04/13/2022
ENGINEER DRAWN BY CHECKED BY

PLATTE RIDGE PARK - FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

DOOR SCHEDULE

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DRAWING NO.
A6.01

FINISH SCHEDULE												
ROOM NO	ROOM NAME	FLOOR		WALLS				CEILING	CASEWORK			REMARKS
		FINISH	BASE	NORTH	EAST	SOUTH	WEST		BASE	COUNTER	UPPER	
100	STORAGE	F2	--	EP3	EP3	EP3	EP3	STR	--	--	--	
101	MECH.	F2	--	EP3	EP3	EP3	EP3	FRP1	--	--	--	
102	WARMING KITCHEN	F1	B1	EP1	EP1	EP1	EP1	FRP1	--	STL1	--	
103	MEN'S	F1	B1	EP1	EP1	EP1	EP1	FRP1	--	--	--	
104	UTILITY	F2	--	--	--	--	--	FRP1	--	--	--	
105	WOMENS	F1	B1	EP1	EP1	EP1	EP1	FRP1	--	--	--	

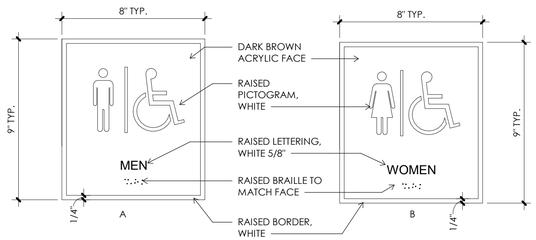
GENERAL FINISH SCHEDULE NOTES:

A. PAINT TRIM AT CEILING TO MATCH WALL COLOR.

SIGNAGE SCHEDULE			
ROOM LOCATION		TYPE	SIGN TEXT
NO.	NAME		
103	MEN'S	A	MEN
105	WOMEN'S	B	WOMEN

GENERAL SIGNAGE SCHEDULE NOTES:

A. REFER TO FINISH PLAN ON A4.01 FOR SIGNAGE LOCATIONS



SIGNAGE TYPES

3" = 1'-0"

TOILET ACCESSORY SCHEDULE		
KEY	DESCRIPTION	NOTES
T1	42" GRAB BAR	
T2	36" GRAB BAR	
T3	18" VERTICAL GRAB BAR	
T4	CHANNEL FRAME MIRROR	
T7	SOAP DISPENSER	NOTE: 1
T9	SURFACE MOUNTED TOILET TISSUE DISPENSER	
T16	SURFACE MOUNTED SEAT COVER DISPENSER	
T17	SURFACE MOUNTED NAPKIN DISPOSAL	
T24	SURFACE MOUNTED BABY CHANGING STATION	
T40	HAND DRYER	
T50	WASTE RECEPTACLE	

TOILET ACCESSORY SCHEDULE - KEYED NOTES:

1. OWNER FURNISHED/ CONTRACTOR INSTALLED ACCESSORY

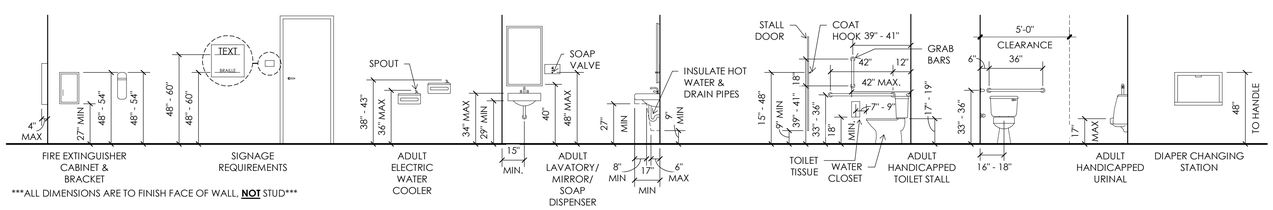
GENERAL TOILET ACCESSORY SCHEDULE NOTES:

A. INTEGRAL PARTITION BLOCKING REQUIRED AT ALL PARTITION MOUNTED ACCESSORIES.

FINISH LEGEND					
KEY	DESCRIPTION	MANUFACTURER	PRODUCT NAME	PATTERN/COLOR/SIZE	COMMENTS
FLOORING MATERIALS					
F1	RESINOUS FLOORING	TNEMEC	DECO TREAD - BROADCAST MICROFLAKE	CUSTOM COLOR	--
F2	SEALED CONCRETE	REFER TO SPECIFICATIONS	REFER TO SPECIFICATIONS	--	--
BASE MATERIALS					
B1	BASE MATERIAL	TNEMEC	DECO TREAD BROADCAST MICROFLAKES	CUSTOM COLOR	--
PAINT MATERIALS					
EP1	PAINT MATERIAL	SHERWIN WILLIAMS	MACROPOXY	SW9109 NATURAL LINEN	SEMI-GLOSS
EP2	PAINT MATERIAL	SHERWIN WILLIAMS	PRE-CATALYZED EPOXY	SWW6107 NOMADIC DESERT	SEMI-GLOSS
EP3	PAINT MATERIAL	SHERWIN WILLIAMS	PRE-CATALYZED EPOXY	SW9109 NATURAL LINEN	SEMI-GLOSS
CABINETRY AND COUNTERTOP MATERIALS					
STL1	STAINLESS STEEL COUNTERTOP	--	TYPD 304, BRUSHED	SATIN STAINLESS STEEL	--
CEILING MATERIALS					
FRP1	FRP CEILING PANEL	CRANE COMPOSITES	KEMPLY FRP LAMINATED PLYWOOD PANELS	GLASSBORD, WHITE, 5/8"	CLASS 'A'
STR	EXPOSED STRUCTURE	--	--	DO NOT PAINT	--
TRANSITION STRIPS					
TS1	TRANSITION STRIP	SCHLUTER	RENO-RAMP	SATIN ANOD. ALUM.	RESINOUS FLOOR TO CONCRETE

GENERAL FINISH LEGEND NOTES:

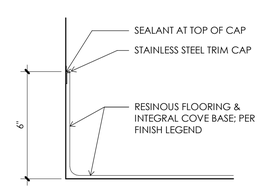
A. ALL HOLLOW METAL FRAMES, DOORS AND DOOR LITE TRIM TO BE EP2.
B. PROVIDE APPROPRIATE TRANSITION STRIPS AT ALL FLOORING MATERIAL CHANGES.
C. ALL MECHANICAL GRILLES TO BE FIELD PAINTED TO MATCH ADJACENT WALL. PREP GRILLE W/ LIGHT SANDING.



ALL DIMENSIONS ARE TO FINISH FACE OF WALL, **NOT** STUD

A10 ADA TYPICAL MOUNTING HEIGHTS

1/4" = 1'-0"



A2 RESINOUS COVE BASE

3" = 1'-0"

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Dalyn Novak - Architect
MO # A-2011006178

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No.	Description	Date

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ENGINEER | DRAWN BY | CHECKED BY

PLATTE RIDGE PARK - FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

FINISH SCHEDULE

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DRAWING NO.
A7.01

ELECTRICAL SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

CIRCUITING

- HOME RUN (2#12 1#12G UNO)
- INDICATES 2 PHASE, 1 N, & 1 GRD CONDUCTOR
- HOME RUN: INDICATES SHARED CIRCUIT
- HOME RUN: INDICATES #10 CONDUCTORS ENTIRELY

UTILITIES

- UGE — UNDERGROUND ELECTRICAL
- OHE — OVERHEAD ELECTRICAL
- TELE — TELECOMMUNICATIONS CONDUIT
- UGT — UNDERGROUND TELECOMMUNICATIONS CONDUIT
- UGT — UNDERGROUND CONDUIT

LIGHTING

- GRID-MOUNTED TROFFER LIGHT FIXTURE
- STRIP LIGHT FIXTURE
- SURFACE/RECESSED LIGHT FIXTURE
- WALL-MOUNTED LIGHT FIXTURE
- POLE-MOUNTED LIGHT FIXTURE
- EXIT LIGHT
- BATTERY-OPERATED EMERGENCY LIGHT (WALL MTD)
- BATTERY-OPERATED EMERGENCY LIGHT (CEILING MTD)
- WALL-MOUNTED COMBINATION EXIT LIGHT/ BATTERY-OPERATED EMERGENCY LIGHT
- $ — LIGHT SWITCH - SINGLE POLE
- $3 — LIGHT SWITCH - 3-WAY
- $4 — LIGHT SWITCH - 4-WAY
- $K — LIGHT SWITCH - KEY
- $D — LIGHT SWITCH - DIMMER
- $PL — LIGHT SWITCH - PILOT LIGHT
- $2P — LIGHT SWITCH - 2 POLE
- $3D — LIGHT SWITCH - 3-WAY DIMMER
- $M — WALL-MOUNTED MOTION SWITCH
- (M) — CEILING-MOUNTED MOTION SWITCH
- SB — SWITCHBANK - REFER TO DETAILS
- FD1 — DIMMER BOARD
- RCS-1 — REMOTE CONTROL SWITCH AS SCHEDULED
- TC — TIMECLOCK - REFER TO PLANS / DETAILS

EQUIPMENT

- DISCONNECT SWITCH. RE: PLANS FOR INFORMATION.
- MAGNETIC MOTOR STARTER
- COMBINATION DISCONNECT SWITCH / MOTOR STARTER
- TOGGLE-TYPE DISCONNECT. FURNISH WITH THERMAL MOTOR PROTECTION WHERE SERVING FANS/PUMPS.
- SURFACE PANELBOARD
- RECESSED PANELBOARD
- DISTRIBUTION PANELBOARD
- SWITCHBOARD. FEEDER/MAIN CIRCUIT BREAKER SECTION AND DISTRIBUTION SECTION.

GENERAL SYMBOLS

- INDICATES CONNECT TO EXISTING
- INDICATES ELEVATION
- XXX — EQUIPMENT TAG. REFER TO CONNECTIONS SCHEDULE FOR ELECTRICAL CONNECTIONS AND LOAD INFO FOR KITCHEN, SHOP, ETC. EQUIPMENT

POWER DEVICES

- DUPLEX RECEPTACLE.
- LINE THRU DEVICE INDICATES ABOVE COUNTER
- GFI — SPECIAL DUPLEX RECEPTACLE (GFCI, ISOLATED GROUND, ETC.)
- QUADPLEX RECEPTACLE
- 5-50R — SIMPLEX RECEPTACLE W/NEMA CONFIG AS NOTED
- 5-50R — MULTI-POLE RECEPTACLE W/NEMA CONFIG AS NOTED
- CEILING MOUNTED RECEPTACLE
- RECEPTACLE/DEVICE MOUNTED IN "TOMBSTONE"
- POKE-THRU WITH POWER
- POKE-THRU WITH TELECOMMUNICATIONS
- POKE-THRU W/POWER AND TELECOM
- FB — FLOOR BOX
- DIVIDED POWER POLE
- C — CLOCK RECEPTACLE
- PLUG MOLD / WIRE MOLD AS SPECIFIED
- J — JUNCTION BOX
- T — THERMOSTAT - ELECTRIC
- PUSH BUTTON
- MOTOR

TELEPHONE/DATA

- TELEPHONE OUTLET (SINGLE-GANG BOX WITH (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING)
- LINE THRU DEVICE INDICATES ABOVE COUNTER
- DATA OUTLET (DOUBLE-GANG BOX WITH (2) 3/4" CONDUITS TO ABOVE ACCESSIBLE CEILING)
- TELEPHONE/DATA OUTLET (DOUBLE-GANG BOX WITH (2) 3/4" CONDUITS TO ABOVE ACCESSIBLE CLG.)
- 1V — PHONE OUTLET WITH NUMBER OF PHONE JACKS AS INDICATED - SEE DETAILS FOR ADD'L INFO.
- 1D — DATA OUTLET WITH NUMBER OF PHONE JACKS AS INDICATED - SEE DETAILS FOR ADD'L INFO.
- 1D/1V — PHONE/DATA OUTLET WITH NUMBER OF PHONE/DATA JACKS AS INDICATED - SEE DETAILS FOR ADD'L INFO.
- W — WALL-MOUNTED WIRELESS INTERNET TRANSMITTER
- W — CEILING-MOUNTED WIRELESS INTERNET TRANSMITTER

AUDIO/VISUAL

- TV — TELEVISION OUTLET (SINGLE GANG BOX WITH (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING)
- TR — REVERSE TELEVISION OUTLET - CABLE TO HEAD END
- AV — RECESSED COMBINATION AV AND POWER OUTLET COORD LOCATION OF DEVICE WITH TV MOUNT
- TDC — TEACHER'S DESK CONNECTIONS - RE: DETAILS
- S — WALL SPEAKER
- S — CEILING SPEAKER
- SSUB — CEILING SPEAKER - SUBWOOFER
- SSS — CEILING SPEAKER - SOUND SYSTEM
- V — VOLUME CONTROL
- SOUND SYSTEM AUDIO JACK
- RM — REMOTE MICROPHONE CONTROL

COMMUNICATIONS SYMBOLS

- I — INTERCOM CALL STATION
- INTERCOM HANDSET
- PAS — PUBLIC ADDRESS SYSTEM AMPLIFIER
- IMS — INTERCOM MASTER STATION
- S — WALL SPEAKER - HORN TYPE
- S — CEILING SPEAKER - HORN TYPE
- ECS — ELEVATOR 2-WAY COMMUNICATION STATION
- ECM — ELEVATOR 2-WAY COMMUNICATION MASTER STATION
- ECSP — ELEVATOR 2-WAY COMMUNICATION POWER SUPPLY

FIRE ALARM

- F — MANUAL PULL STATION
- D — CEILING SMOKE DETECTOR
- D — DUCT SMOKE DETECTOR
- H — HEAT DETECTOR
- WF — WATERFLOW SWITCH
- TS — TAMPER SWITCH
- 75 — WALL-MOUNTED FA STROBE WITH CANDELA RATING. 15cd RATING UNLESS OTHERWISE NOTED ON PLANS.
- WALL-MOUNTED FA HORN
- WALL-MOUNTED FA SPEAKER
- 30 — WALL-MOUNTED FA HORN/STROBE WITH CANDELA RATING. 15cd UNLESS OTHERWISE NOTED ON PLANS.
- 30 — WALL-MOUNTED FA SPEAKER/STROBE WITH CANDELA RATING. 15cd UNLESS OTHERWISE NOTED ON PLANS.
- 75 — CEILING-MOUNTED FA STROBE WITH CANDELA RATING. MINIMUM OF 15cd RATING.
- CEILING-MOUNTED FA SPEAKER.
- 30 — CEILING-MOUNTED FA HORN/STROBE WITH CANDELA RATING. MINIMUM OF 15cd RATING.
- 30 — CEILING-MOUNTED FA SPEAKER/STROBE WITH CANDELA RATING. MINIMUM OF 15cd RATING.
- R — RELAY
- FACP — FIRE ALARM CONTROL PANEL
- FAAP — FIRE ALARM ANNUNCIATOR PANEL
- FARA — REMOTE ANNUNCIATOR PANEL
- FAEC — FIRE ALARM EXTENDER CABINET
- DH — DOOR HOLDER
- D 120V — SINGLE / MULTI-STATION 120V SMOKE ALARM
- ZAM — ZONE ADDRESSABLE MODULE
- IAM — INDIVIDUAL ADDRESSABLE MODULE
- HFSS — KITCHEN HOOD FIRE SUPPRESSION SYSTEM PANEL
- H — KITCHEN HOOD REMOTE PULL STATION
- ARA — AREA OF RESCUE ASSISTANCE STATION
- ARAM — AREA OF RESCUE ASSISTANCE MASTER STATION

NURSE CALL

- N — NURSE CALL STATION
- PC — NURSE CALL EMERGENCY PULL CORD
- CB — CODE BLUE STATION
- SS — NURSE CALL STAFF STATION
- DB — NURSE CALL DUAL PUSHBUTTON STATION (CODE BLUE / STAFF ASSIST)
- PM — PATIENT MONITOR STATION
- DS — NURSE CALL DUTY STATION
- DL — NURSE CALL DOME LIGHT
- ZL — NURSE CALL ZONE LIGHT
- NCM — NURSE CALL MASTER STATION
- RCM — RESIDENT CALL MASTER STATION
- PC — RESIDENT CALL EMERGENCY PULL CORD

SECURITY

- FIXED CAMERA
- PTZ — PAN/TILT/ZOOM CAMERA
- PROX — PROXIMITY TYPE CARD READER
- CARD — SWIPE CARD READER
- ES — ELECTRIC STRIKE
- KP — KEYPAD / MAG LOCK
- B — BUTTON / MAG LOCK

MECHANICAL AND PLUMBING SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

SHEET METAL

- HIGH EFFICIENCY ROUND DUCT TAKEOFF (WITH & WITHOUT MANUAL DAMPER)
- SPIN-IN ROUND DUCT TAKEOFF (WITH & WITHOUT MANUAL DAMPER)
- CONICAL BELLMOUTH ROUND TAKEOFF
- ROUND DUCT RUNOUT WITH FLEX DUCT
- DUCTWORK ELBOW (WITH & WITHOUT TURNING VANES)
- XD — FD:FIRE DAMPER FS:FIRE/SMOKE DAMPER SD:SMOKE DAMPER BD:BACKDRAFT DAMPER (GRAVITY)
- MD — AUTOMATIC MOTORIZED DAMPER
- 8"ø/A 225 — SUPPLY DIFFUSER AND DIFFUSER CALLOUT (NECK SIZE, TYPE AND CFM)
- LINEAR/SLOT DIFFUSER
- RETURN GRILLE OR EXHAUST REGISTER
- SUPPLY AIR FLOW INDICATOR
- RETURN AND EXHAUST AIR FLOW INDICATOR
- THERMOSTAT
- TEMPERATURE SENSOR
- H — HUMIDISTAT
- CONTROL WIRING

GENERAL SYMBOLS

- INDICATES CONNECT TO EXISTING
- INDICATES ELEVATION
- XXX — EQUIPMENT TAG. REFER TO CONNECTIONS SCHEDULE FOR MECHANICAL CONNECTIONS AND LOAD INFO FOR KITCHEN, SHOP, ETC. EQUIPMENT

MECHANICAL PIPING

- RL — REFRIGERANT LIQUID
- RS — REFRIGERANT SUCTION
- D — DRAIN (CONDENSATE)
- CA — COMPRESSED AIR

PLUMBING PIPING

- DOMESTIC COLD WATER
- DOMESTIC HOT WATER
- RECIRCULATING DOMESTIC HOT WATER
- SAN — WASTE ABOVE GRADE OR FLOOR
- SAN — WASTE BELOW GRADE OR FLOOR
- ST — STORM ABOVE GRADE OR FLOOR
- ST — STORM BELOW GRADE OR FLOOR
- ST/O — STORM OVERFLOW ABOVE GRADE OR FLOOR
- ST/O — STORM OVERFLOW BELOW GRADE OR FLOOR
- V — PLUMBING VENT
- W — WATER SERVICE
- G — GAS (NATURAL)
- PD — FROM SUMP PUMP DISCHARGE
- CA — COMPRESSED AIR
- LP — PROPANE
- SCW — SOFT DOMESTIC COLD WATER
- W&V XX — PLUMBING RISER CALLOUT (REFERS TO RISER DIAGRAM)

PIPING SYMBOLS

- SHUTOFF VALVE
- SHUTOFF VALVE IN RISER
- BALANCING VALVE
- PLUG VALVE
- AUTO FLOW CONTROL VALVE
- PIPING ELBOW UP
- PIPING ELBOW DOWN
- PIPING TEE
- PIPING ELBOW
- PIPING TEE UP
- PIPING TEE DOWN
- INCREASER / REDUCER
- UNION
- CAP
- PIPE FLEX
- STRAINER
- CHECK VALVE
- INLINE STRAINER
- TEST PLUG

PIPING SPECIALTIES

- P T — PRESS/ TEMP GAUGE WITH COCK
- THERMOMETER.
- HI LOW — PRESSURE REDUCING VALVE
- RELIEF VALVE
- WATER HAMMER ARRESTER

PLUMBING FIXTURES/EQUIPMENT

- HB — HOSE BIBB
- WH — WALL HYDRANT
- CLEAN OUT
- RPZ — REDUCED PRESSURE BACKFLOW PREVENTER
- DCBP — DOUBLE CHECK BACKFLOW PREVENTER
- WC-1 S-1 — PLUMBING FIXTURE AND CALLOUT
- FD-1 — FD: FLOOR DRAIN, AD: AREA DRAIN, FS: FLOOR SINK
- RD-1 — RD: ROOF DRAIN ORD: OVERFLOW ROOF DRAIN

SHEET INDEX

MEP.0	COVER SHEET
MEP.1	SITE PLAN
M1.01	FLOOR PLAN - HVAC
M2.01	MECHANICAL - SCHEDULES & DETAILS
P1.01	FLOOR PLAN - PLUMBING
P2.01	PLUMBING - SCHEDULES
P3.01	PLUMBING - DETAILS
E1.01	FLOOR PLAN - LIGHTING
E1.02	FLOOR PLAN - POWER
E2.01	ELECTRICAL - SCHEDULES/DETAILS

GEN. MECHANICAL NOTES

1. COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE INTERNATIONAL MECHANICAL CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.
2. ANY POWER FOR CONTROL SYSTEMS TO BE PROVIDED BY E/C IS INDICATED ON ELECTRICAL PLANS. ANY ADDITIONAL LINE VOLTAGE OR LOW VOLTAGE POWER REQUIRED BY THE M/C OR SUBCONTRACTORS TO HAVE A FULLY FUNCTIONING SYSTEM SHALL BE PROVIDED BY THE M/C CONTRACTOR OR SUBS.
3. ALL EQUIPMENT SHALL BE ADEQUATELY AND PROPERLY SUPPORTED AND FASTENED FROM STRUCTURE.
4. ALL EQUIPMENT AND ACCESSORIES INSTALLED IN CONCEALED SPACES REQUIRING ACCESS SHALL BE PROVIDED WITH ACCESS DOORS MEETING ANY FIRE REQUIREMENTS OF THE WALL/CEILING THEY ARE INSTALLED.
5. EACH AIR HANDLING UNIT OVER 2000CFM SHALL BE PROVIDED WITH A SMOKE DETECTOR TO SHUT DOWN THE UNIT PER IMC 606 AS REQUIRED BY AHJ. COORDINATE WITH OTHER TRADES.
6. START UP AND ADJUST ALL EQUIPMENT AND VERIFY ALL MECHANICAL SYSTEMS IN OPERATE IN ACCORDANCE WITH THEIR INTENDED PURPOSES. SUBMIT BALANCE AND START UP REPORTS TO THE A/E. REFER TO SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.

COORDINATION NOTES

1. COORDINATE REQUIREMENTS FOR INSTALLATION OF SYSTEMS AND EQUIPMENT WITH ALL OTHER TRADES.
2. THE CONTRACTOR SHALL COORDINATE THE ROUTING AND PATH OF ALL SYSTEMS, CONDUITS, PIPES, DUCTS, ETC WITH THE POSITION AND LAYOUT OF THE STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING NECESSARY OFFSETS, TURNS, RISES AND DROPS FOR SYSTEMS AND COMPONENTS AS NEEDED TO INSTALL THE MEP SYSTEMS TO CLEAR STRUCTURE, CEILINGS, ETC AND OTHER SYSTEMS IN POTENTIAL CONFLICT WITH ROUTING.
3. COORDINATE WORK WITH OTHER TRADES TO INSTALL SYSTEMS ABOVE CEILING HEIGHTS INDICATED ON ARCHITECTURAL PLANS.
4. CHECK SPACE REQUIREMENTS WITH OTHER TRADES AND STRUCTURE/CONSTRUCTION TO ENSURE THAT ALL MATERIALS AND EQUIPMENT CAN BE INSTALLED IN THE SPACE ALLOTTED INCLUDING FINISHED SUSPENDED CEILINGS AND OTHER SPACES, CHASES, ETC WITHIN THE BUILDING. MAKE MODIFICATIONS THERETO AS REQUIRED AND APPROVED.
5. TRANSMIT TO OTHER TRADES ALL INFORMATION REQUIRED FOR WORK TO BE PROVIDED UNDER THEIR RESPECTIVE SECTIONS IN AMPLE TIME FOR INSTALLATION.
6. WHEREVER WORK INTERCONNECTS WITH WORK OF OTHER TRADES, COORDINATE WITH THOSE TRADES TO ENSURE THAT ALL SUBCONTRACTORS HAVE THE INFORMATION NECESSARY SO THAT THEY MAY PROPERLY INSTALL ALL CONNECTIONS AND EQUIPMENT. IDENTIFY ALL ITEMS OF WORK THAT REQUIRE ACCESS SO THAT THE CEILING TRADE WILL KNOW WHERE TO INSTALL ACCESS DOORS AND PANELS.
7. COORDINATE, PROJECT AND SCHEDULE WORK WITH OTHER TRADES IN ACCORDANCE WITH THE CONSTRUCTION SEQUENCE.
8. DRAWINGS SHOW THE GENERAL RUNS OF CONDUITS, PIPING AND DUCTWORK AND APPROXIMATE LOCATION OF OUTLETS. ANY SIGNIFICANT CHANGES IN LOCATION OF ITEMS NECESSARY IN ORDER TO MEET FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER AND RECEIVE HIS APPROVAL BEFORE SUCH ALTERATIONS ARE MADE. ALL SUCH MODIFICATIONS SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND REPAIR OF SURFACES, AREAS AND PROPERTY THAT MAY BE DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES.
10. ADJUST LOCATION OF PIPING, DUCTWORK, ETC. TO PREVENT INTERFERENCES, BOTH ANTICIPATED AND ENCOUNTERED. DETERMINE THE EXACT ROUTE AND LOCATION OF EACH ITEM PRIOR TO FABRICATION. MAKE OFFSETS, TRANSITIONS AND CHANGES IN DIRECTION IN SYSTEMS AS REQUIRED TO MAINTAIN ADEQUATE CLEARANCES AND HEADROOM.
11. WHEREVER THE WORK IS OF SUFFICIENT COMPLEXITY, PREPARE ADDITIONAL COORDINATION DRAWINGS AND ORGANIZE ON-SITE MEETINGS WITH ALL RELATED SUBCONTRACTORS TO COORDINATE THE WORK BETWEEN TRADES . DRAWINGS SHALL CLEARLY SHOW THE WORK AND ITS RELATION TO THE WORK OF OTHER TRADES, AND BE SUBMITTED FOR REVIEW PRIOR TO COMMENCING SHOP FABRICATION OR ERECTION IN THE FIELD.
12. COORDINATE WITH LOCAL UTILITY PROVIDERS FOR THEIR REQUIREMENTS FOR SERVICE CONNECTIONS AND PROVIDE ALL NECESSARY PAYMENTS, MATERIALS, LABOR AND TESTING TO ACCOMPLISH THE WORK.
13. COORDINATE THE MOUNTING OF SUSPENDED LIGHT FIXTURES UTILIZING INDIRECT LIGHT SO THAT CONDUIT, DUCTWORK, STRUCTURAL MEMBERS, ETC. ARE NOT LOCATED DIRECTLY ABOVE THE LIGHT FIXTURE. MAINTAIN A MINIMUM OF 24" CLEARANCE FROM THESE ITEMS WHENEVER POSSIBLE.

GENERAL NOTES

1. SOME ROOM NAMES MAY NOT BE SHOWN FOR PURPOSE OF CLARIFYING PLAN. REFER TO ARCHITECTURAL PLANS FOR REFERENCE TO ROOM NAMES NOT SHOWN.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN AND KEEP AT THE JOB SITE, AN UP TO DATE SET OF "RECORD DRAWINGS" SHOWING ALL CHANGES FROM THE ORIGINAL PLANS. THE CONTRACTOR SHALL DELIVER THE "RECORD DRAWINGS" TO THE ENGINEER AT THE CONCLUSION OF THE PROJECT ELECTRONICALLY.
3. THESE DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS (NEW AND EXISTING), DIMENSIONS, AND CLEARANCES PRIOR TO THE COMMENCEMENT OF WORK AND SHALL INCLUDE ALL COSTS, EQUIPMENT, MATERIAL, ACCESSORIES, ETC. REQUIRED FOR A FULLY COMPLETE, FUNCTIONAL AND CODE COMPLIANT INSTALLATION.
4. FINAL LOCATIONS OF ALL DEVICES, LIGHT FIXTURES, EQUIPMENT ETC SHALL BE INDICATED ON THE ARCHITECTURAL DRAWINGS. ALL DIMENSIONAL INFORMATION SHALL BE OBTAINED FROM ARCHITECTURAL PLANS. NO DIMENSIONAL INFORMATION SHALL BE OBTAINED FROM MEP DRAWINGS.
5. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, APPROVALS, LICENSES, ETC. AS NEEDED FOR THE COMPLETE INSTALLATION AND PROJECT. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR ALL FEES AND DATA NEEDED FOR THIS.

ABBREVIATIONS

A/E	ARCHITECT / ENGINEER	ELEV	ELEVATION	MH	MANHOLE
AFF	ABOVE FINISHED FLOOR	EM	EMERGENCY FIXTURE/DEVICE	MLO	MAIN LUGS ONLY
AFG	ABOVE FINISHED GRADE	EWT	ENTERING WATER TEMPERATURE	NFA	NET FREE AREA
AG	ABOVE GRADE	EX	EXISTING ITEM	NL	NIGHT LIGHT
AHJ	AUTHORITY HAVING JURISDICTION	FFA	FROM FLOOR ABOVE	OA	OUTSIDE AIR
AHU	AIR HANDLING UNIT	FFB	FROM FLOOR BELOW	ORD	OVERFLOW ROOF DRAIN
ARCH	ARCHITECT	FFCO	FINISHED FLOOR CLEAN OUT	P/C	PLUMBING CONTRACTOR
BFP	BACKFLOW PREVENTER	FGCO	FLUSH GRADE CLEAN OUT	PSI	POUNDS PER SQUARE INCH
BG	BELOW GRADE	FL	FLOW LINE	PVC	POLYVINYLCHLORIDE
BLDG	BUILDING	FLR	FLOOR	RA	RETURN AIR
BMS	BUILDING MANAGEMENT SYSTEM	FP	FIRE PROTECTION	RE/REF	REFER / REFERENCE
C	CONDUIT	FPM	FEET PER MINUTE	RF	RELIEF FAN
CD	CANDELA	FWCO	FLUSH WALL CLEAN OUT	RL	RELOCATED ITEM
CD	COLD DECK	G	GROUND / GANG	RPZ	REDUCED PRESSURE ZONE
CLG	COOLING	G/C	GENERAL CONTRACTOR	RR	RESTROOM
CM	COORDINATE MOUNTING HEIGHT	GFI	GROUND FAULT CIRCUIT INTERUPTER	SA	SUPPLY AIR
CO	CLEAN OUT	GFP	GFI-PROTECTED DEVICE	SPD	SURGE PROTECTIVE DEVICE
CTE	CONNECT TO EXISTING	GPM	GALLONS PER MINUTE	ST	SHUNT TRIP
DCVA	DOUBLE CHECK VALVE ASSEMBLY	HD	HOT DECK	TA	TRANSFER AIR
DCW	DOMESTIC COLD WATER	HTG	HEATING	TFA	TO FLOOR ABOVE
DDC	DIRECT DIGITAL CONTROLS	IG	ISOLATED GROUND	TFB	TO FLOOR BELOW
DF	DRINKING FOUNTAIN	JB	JUNCTION BOX	TP	TAMPERPROOF
DHW	DOMESTIC HOT WATER	LED	LIGHT EMITTING DIODE	TYP	TYPICAL
DHWR	DOMESTIC HOT WATER RETURN	LWT	LEAVING WATER TEMPERATURE	UNO	UNLESS NOTED OTHERWISE
DIA	DIAMETER	M/C	MECHANICAL CONTRACTOR	VRF	VARIABLE REFRIGERANT FLOW
DN	DOWN	MA	MIXED AIR	VTR	VENT THROUGH ROOF
E/C	ELECTRICAL CONTRACTOR	MAU	MAKE UP AIR UNIT	WCO	WALL CLEANOUT
EA	EXHAUST AIR	MCB	MAIN CIRCUIT BREAKER	WG	WIRE GUARD
EDF	ELECTRIC DRINKING FOUNTAIN	MECH	MECHANICAL	WP	WEATHERPROOF

FIRE SEALING NOTES

1. COORDINATE CONSTRUCTION OF OPENINGS AND PENETRATING ITEMS TO ENSURE THAT THROUGH-PENETRATION FIRESTOP SYSTEMS ARE INSTALLED ACCORDING TO SPECIFIED AND APPLICABLE UL REQUIREMENTS.
2. COORDINATE SIZING OF SLEEVES, OPENINGS, CORE-DRILLED HOLES, OR CUT OPENINGS TO ACCOMMODATE THROUGH-PENETRATION FIRESTOP SYSTEMS.
3. DO NOT COVER UP THROUGH-PENETRATION FIRESTOP SYSTEM INSTALLATIONS UNTIL EXAMINED BY INSPECTOR, IF REQUIRED BY AUTHORITIES HAVING JURISDICTION.
4. COMPATIBILITY: PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS THAT ARE COMPATIBLE WITH ONE ANOTHER; WITH THE SUBSTRATES FORMING OPENINGS; AND WITH THE ITEMS, IF ANY, PENETRATING THROUGH-PENETRATION FIRESTOP SYSTEMS, UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE.
5. PROVIDE COMPONENTS FOR EACH THROUGH-PENETRATION FIRESTOP SYSTEM THAT ARE NEEDED TO INSTALL FILL MATERIALS. USE ONLY COMPONENTS SPECIFIED BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER AND APPROVED BY QUALIFIED TESTING AND INSPECTING AGENCY FOR FIRESTOP SYSTEMS INDICATED.
6. PROVIDE SLEEVES THROUGH ALL FIRE-RATED WALLS AND FILL VOIDS SURROUNDING SLEEVES AND INTERIOR TO SLEEVES AROUND PIPING WITH FIRE STOP PUTTY WITH U.L. LISTED 3 HOUR RATING INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS.
7. FIRE SEAL ALL PIPING, CONDUIT, CABLE, ETC PENETRATIONS ROUTED THROUGH FIRE RATED WALLS.
8. PROVIDE FIRE RATED ENCLOSURES OR WRAPS ON LIGHT FIXTURES AND OTHER ITEMS PENETRATING FIRE RATED CEILINGS, FLOOR/CEILING/ CEILING/ROOF ASSEMBLIES TO MAINTAIN UL LISTING FOR CONSTRUCTION.

GENERAL PLUMBING NOTES

1. COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE INTERNATIONAL PLUMBING CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.
2. NO PIPING SHALL BE INSTALLED WHERE IT WILL SUBJECT TO FREEZING TEMPERATURES. PIPING IN EXTERIOR WALLS SHALL BE INSTALLED ON THE WARM SIDE OF BUILDING INSULATION, INSULATED AND THE CHASE SHALL BE VENTILATED WITH GRILLES ALLOWING INDOOR AMBIENT CONDITIONS TO CIRCULATE THROUGH THE CHASE.
3. PROVIDE CLEANOUTS IN THE FOLLOWING LOCATIONS:
   - 3.1. IN ALL HORIZONTAL DRAINS (WITHIN THE BUILDING) NOT MORE THAN 100 FEET APART.
   - 3.2. IN BUILDING SEWERS LOCATED NO MORE THAN 100 FEET APART MEASURED FROM THE UPSTREAM ENTRANCE OF THE CLEANOUT.
   - 3.3. EACH CHANGE OF DIRECTION OF THE BUILDING DRAIN OR HORIZONTAL WASTE OR SOIL LINES GREATER THAN 45 DEGREES. WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A RUN OF PIPING, ONLY ONE CLEANOUT SHALL BE REQUIRED FOR EACH 40 FEET OF DEVELOPED LENGTH OF THE DRAINAGE PIPING.
   - 3.4. AT THE BASE OF EACH WASTE OR SOIL STACK.
   - 3.5. NEAR THE JUNCTION OF THE BUILDING DRAIN AND BUILDING SEWER.

GENERAL ELECTRICAL NOTES

1. COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.
2. COORDINATE LOCATIONS OF RECEPTACLES, SWITCHES, ETC. WITH ARCHITECTURAL CASEWORK AND ELEVATIONS.
3. REFER TO MOUNTING HEIGHTS DETAIL FOR MOUNTING HEIGHTS OF ALL DEVICES NOT INDICATED OTHERWISE.
4. PROVIDE ALL EMPTY CONDUITS WITH PULL STRINGS AND BUSHED ENDS.
5. CONTRACTOR SHALL CONCEAL ALL CONDUIT, FITTINGS, AND DEVICES FROM VIEW WHERE REASONABLY POSSIBLE.
   - 5.2. REFER TO SPECIFICATIONS FOR ALLOWABLE WIRING METHODS THROUGHOUT PROJECT.
   - 5.3. ALL EXPOSED WIRING SHALL BE IN EMT OR METALLIC CONDUIT, EXCEPT AS PERMITTED BY SPECIFICATIONS FOR WHIPS TO EQUIPMENT.
6. ALL CONDUCTOR SIZES INDICATED ON DRAWINGS ARE FOR COPPER CONDUCTORS UNLESS SPECIFICALLY NOTED OTHERWISE. ALUMINUM CONDUCTORS MAY BE USED ONLY UNDER THE FOLLOWING CONDITIONS:
   - 6.1. CONTRACTOR SHALL INCLUDE A DEDUCT ALTERNATE FOR USE OF SAME WITH BIDS, FOR OWNER ACCEPTANCE.
   - 6.2. AL CONDUCTORS MAY ONLY BE USED ON FEEDERS 100A OR GREATER - NO EXCEPTIONS.
   - 6.3. ALUMINUM CABLING SHALL BE COMPACTED ALUMINUM (STABILOY).
   - 6.4. PROVIDE COMPRESSION-TYPE ONE-HOLE OR TWO-HOLE LUG TERMINATIONS.
   - 6.5. PROVIDE ANTI-OXIDANT COMPOUND AT TERMINATIONS.
   - 6.6. CABLE TERMINATIONS SHALL BE MARKED "AL/CU".
   - 6.7. FINAL SIZES OF CONDUCTORS TO BE CONFIRMED BY ENGINEER.
   - 6.8. ALUMINUM SERVICE CONDUCTORS MUST HAVE "AA-8000" SERIES LABELING ON CABLE JACKETS PER EVERGY REQUIREMENTS - NO EXCEPTIONS.

ENGINEER RESERVES FINAL RIGHT TO ACCEPT/DENY USE OF ALUMINUM CONDUCTORS FOR PART OR ALL OF PROJECT.

WSKF ARCHITECTS

pkmr ENGINEERS 22.113
PEARSON KENT MCKINLEY RAAF ENGINEERS LLC
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913.492.2400 WWW.PKMRENG.COM
MO State Certificate of Authority #E-2002020886

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MISSOURI CERTIFICATE OF AUTHORITY NO. E-2006023253
EXPIRES: DECEMBER 31, 2022

STATE OF MISSOURI — MICHAEL D. RAAF — NUMBER PE-2005028097 — PROFESSIONAL ENGINEER — 04/18/22
Michael D. Raaf - Engineer
MO# PE-2005028097

STATE OF MISSOURI — WILLIAM E. KENT — NUMBER PE-2004015662 — PROFESSIONAL ENGINEER — 04/18/22
William E. Kent - Engineer
MO# PE-2004015662

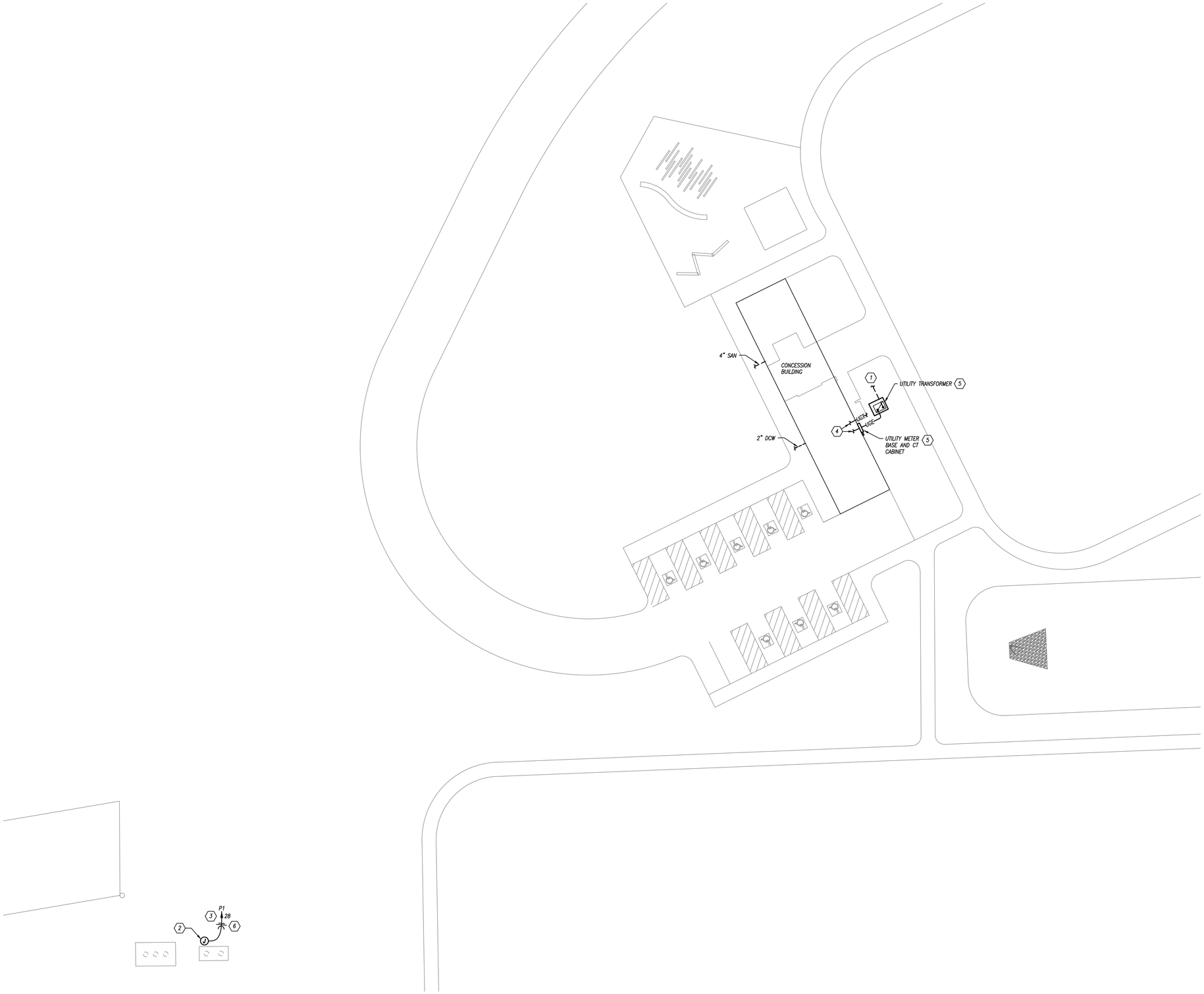
ISSUE DATE: 4/18/2022

210266-000

PLATTE RIDGE PARK
FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

COVER SHEET

MEP.0



SITE PLAN
1" = 20'-0"

GENERAL SITE PLAN NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. REFER TO CIVIL PLANS FOR CONTINUATION OF SERVICES BEYOND 5'-0" FROM BUILDING UNLESS OTHERWISE SHOWN.
3. REFER TO RESPECTIVE FLOOR PLANS FOR CONTINUATION OF SERVICES INSIDE BUILDING AND/OR EXACT LOCATIONS OF EQUIPMENT.
4. CONTACT UTILITY LOCATING SERVICE TO LOCATE EXACT LOCATION OF ALL EXISTING UTILITIES BELOW GRADE.

SITE PLAN KEYED NOTES

1. CONTINUE AS DIRECTED BY UTILITY. REFER TO CIVIL PLANS FOR CONTINUATION.
2. WIRE GUTTER AND DISCONNECTS FOR SMALL BLOWER AND TURBINE PUMP. VERIFY EXACT LOCATION WITH CIVIL. REFER TO CIVIL PLANS FOR FEEDER ROUTING. REFER TO RISER DIAGRAM FOR MORE INFORMATION.
3. (2) #3 WIRE AND (1) #8 GROUND IN 1" CONDUIT.
4. REFER TO POWER PLAN FOR CONTINUATION.
5. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
6. FEEDER TO BE 36" BELOW GRADE WITH WARNING TAPE ABOVE CONDUIT AT 18" BELOW GRADE.

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STATE OF MISSOURI — WILLIAM E. KENT — NUMBER PE-2004015662 — PROFESSIONAL ENGINEER — 04/18/22
William E. Kent - Engineer
MO# PE-2004015662

STATE OF MISSOURI — MICHAEL D. RAAF — NUMBER PE-2005028097 — PROFESSIONAL ENGINEER — 04/18/22
Michael D. Raaf - Engineer
MO# PE-2005028097

REVISIONS

ISSUE DATE: 4/18/2022

PROJECT INFO
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ENGINEER	DRAWN BY	CHECKED BY
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PLATTE RIDGE PARK
FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

SITE PLAN

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DRAWING NO.
MEP.1

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STATE OF MISSOURI
WILLIAM E. KENT
NUMBER PE-2004015662
REGISTERED PROFESSIONAL ENGINEER
04/18/22
William E. Kent - Engineer
MO# PE-2004015662

REVISIONS
ISSUE DATE: 4/18/2022

PROJECT INFO
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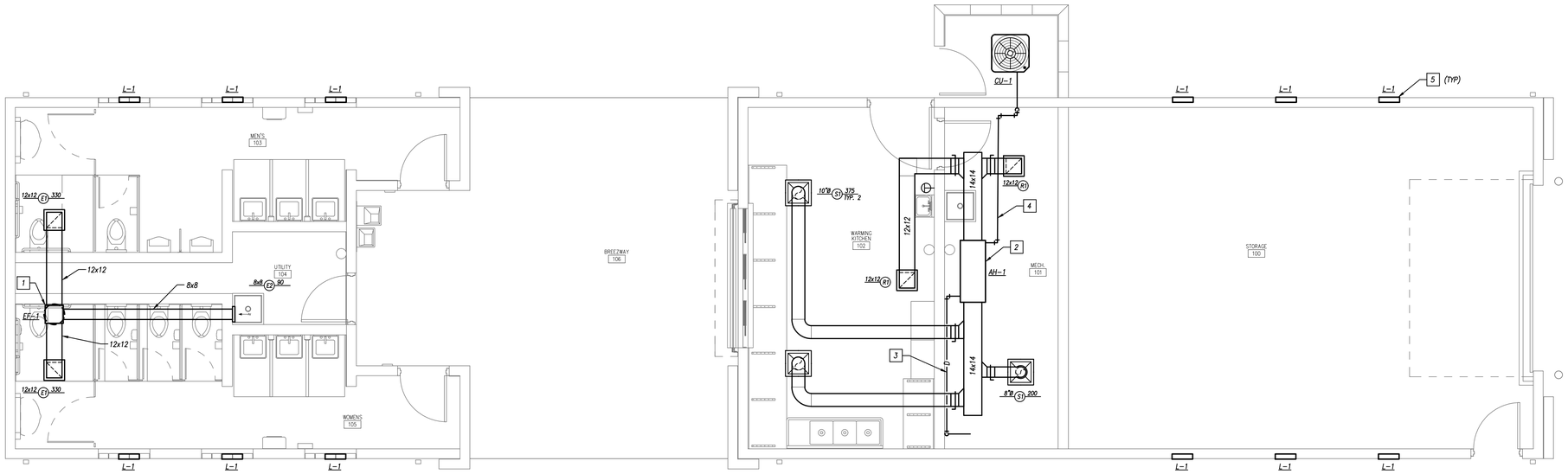
ENGINEER	DRAWN BY	CHECKED BY
---	---	---

GENERAL HVAC NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. ROUND BRANCH DUCT RUNOUTS AND FLEXIBLE DUCT SHALL BE THE SAME SIZE AS THE DIFFUSER NECK UNLESS NOTED OTHERWISE.
3. MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE 5'-0".
4. ALL AIR DISTRIBUTION DEVICES SHALL HAVE LOCKABLE VOLUME CONTROL DEVICES.
5. ALL 90 DEGREE TURNING ELBOWS SHALL BE SMOOTH ROUND OR SQUARE WITH TURNING VANES.
6. DUCT SIZES SHOWN ON PLANS ARE INSIDE FREE AREA.

HVAC PLAN KEYED NOTES

1. 14x14 EXHAUST AIR DUCT UP TO FAN ON ROOF.
2. INSTALL AIR HANDLER ABOVE CEILING. PROVIDE ACCESS DOOR FOR MAINTENANCE.
3. ROUTE DRAIN PIPING TIGHT TO WALL AND TERMINATE AT FLOOR DRAIN.
4. ROUTE REFRIGERANT LINESET TO CONDENSING UNIT. SIZE LINESET BASED ON MANUFACTURER'S REQUIREMENTS.
5. INSTALL LOUVERS IN STORAGE AT 7'-0" TO BOTTOM OF LOUVER.



FLOOR PLAN - HVAC
1/4" = 1'-0"

PLATTE RIDGE PARK
FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

FLOOR PLAN - HVAC

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DRAWING NO.
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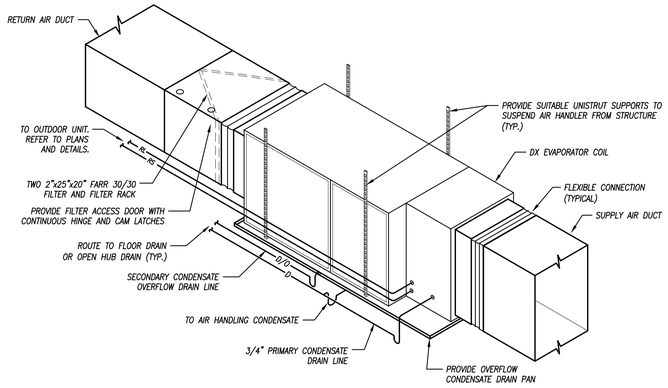
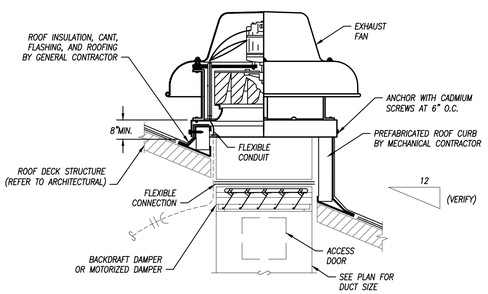


SUSPENDED AIR HANDLING UNIT DETAIL

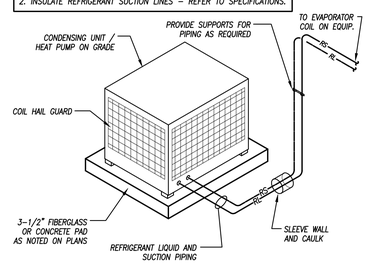
NOT TO SCALE



EXHAUST FAN DETAIL

NOT TO SCALE

NOTES:
1. CONDENSING UNIT MANUFACTURER TO SIZE ALL REFRIGERANT LINES AND PROVIDE ALL ACCESSORIES FOR VERTICAL RUNS AS REQUIRED.
2. INSULATE REFRIGERANT SUCTION LINES – REFER TO SPECIFICATIONS.



CONDENSING UNIT / HEAT PUMP DETAIL

NOT TO SCALE

GRILLE, REGISTER & DIFFUSER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	MATERIAL	STYLE	DESCRIPTION	MOUNT TYPE	FACE SIZE (IN)	NECK SIZE (IN)	VOLUME DAMPER	MAX APD (IN. WG.)	MAX NC	FINISH COLOR	REMARKS
SUPPLY													
S1	TITUS	TDC	STEEL	CEILING DIFFUSER	SQUARE HIGH CAPACITY CONCENTRIC LOUVERED FACE	HARD CEILING	24X24	AS INDICATED	NO	0.08	25	WHITE	
RETURN													
R1	TITUS	350RL	STEEL	SQUARE CEILING	35 DEG SINGLE DEFLECTION AEROBLADE 3/4" SPACING	HARD CEILING	AS INDICATED	AS INDICATED	NO	0.08	25	WHITE	NOTE 3
EXHAUST													
E1	TITUS	350FL	ALUMINIUM	SQUARE CEILING	35 DEG SINGLE DEFLECTION AEROBLADE 3/4" SPACING	HARD CEILING	AS INDICATED	AS INDICATED	NO	0.08	25	WHITE	NOTE 3
E2	TITUS	350RL	STEEL	WALL	35 DEG SINGLE DEFLECTION AEROBLADE 3/4" SPACING	WALL	AS INDICATED	AS INDICATED	NO	0.08	25	WHITE	

GENERAL REMARKS:
1. PROVIDE ALL GRD WITH ALL NECESSARY MOUNTING HARDWARE.
2. PROVIDE GRD WITHOUT SCREWHOLES WHEN INSTALLED IN LAY-IN CEILINGS
3. VERIFY CEILING CONFIGURATION, COLOR AND SPECIFICS WITH ARCHITECTURAL CEILING PLANS.

NOTES:
1. PROVIDE WITH INSULATED PLENUM
2. LENGTH AS INDICATED ON PLANS.
3. PROVIDE ROUND NECK ADAPTER WHERE SHOWN WITH ROUND CONNECTION.
4. COORDINATE FINISH WITH ARCHITECT. PROVIDE GALVANIZED OR MILL FINISH WHERE DUCTWORK IS NOT TO BE PAINTED. PROVIDE PRIMED PAINTABLE FINISH WHEN DUCTWORK IS TO BE PAINTED.

HVAC PIPING MATERIAL SCHEDULE

PIPING SYSTEM	SIZE	TYPE/SCHED	MATERIAL	ACCEPTABLE FITTINGS	FIELD TEST PRESSURE/TIME	ALLOWABLE IN PLENUMS	INSULATION TYPE	INSULATION THICKNESS
CONDENSATE DRAIN INTERIOR	1/2" – 2"	L	COPPER	SOLDER, PRO-PRESS	10 FT – 1/2HR	YES	FIBERGLASS W/ ASJ	1/2" (PLENUM ONLY)
REFRIGERANT LINES	1/2" – 2"	ACR	COPPER	BRAZED		YES	ELASTOMERIC	3/4"

NOTES:
1. ALL PIPING AND MATERIALS IN PLENUMS MUST MEET ASTM E84 FLAME/SMOKE RATING OF 25/50.
2. ALL INSULATION THICKNESSES SHALL MEET ASHRAE 90.1 – 2007 REQUIREMENTS AT A MINIMUM.
3. REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION.

EXHAUST FAN SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	TYPE	SERVICE	FAN DATA CFM	E.S.P. (IN)	BHP	HP	DRIVE	RPM	ELECTRICAL	CONTROL	REMARKS
EF-1	COOK	ACED 100C17D	CENTRIFUGAL ROOF	RESTROOMS	750	0.500	0.145	1/8	DIRECT	1,725	120V / 1PH	SWITCH	NOTE 1

REMARKS:
1. UNIT SHALL BE PROVIDED WITH SOLID STATE SPEED CONTROL MOUNTED AT FAN.
2. UNIT SHALL BE CONTROLLED VIA SWITCH. REFER TO ELECTRICAL DRAWINGS FOR LOCATION.

DUCTWORK INSULATION SCHEDULE

DUCT PURPOSE	DUTY	LOCATION	STYLE	INSULATION MATERIAL	APPLICATION	THICKNESS	NOTES
SUPPLY	LOW PRESSURE/VELOCITY	CONCEALED	RECTANGULAR	FIBERGLASS	LINED	1/2"	---
		CONCEALED	ROUND	MINERAL FIBER	WRAPPED	1-1/2"	---
	ALL	UNCONDITIONED ATTICS (CZ 1-4)	ALL	FIBERGLASS & MINERAL FIBER	LINED & WRAPPED (R-8 MIN)	1/2" & 2.2"	---
RETURN	LOW PRESSURE/VELOCITY	CONCEALED	RECTANGULAR	FIBERGLASS	LINED	1/2"	---
		CONCEALED	ROUND	MINERAL FIBER	WRAPPED	1-1/2"	---
	ALL	UNCONDITIONED ATTICS (CZ 1-4)	ALL	FIBERGLASS & MINERAL FIBER	LINED & WRAPPED (R-8 MIN)	1/2" & 2.2"	---
EXHAUST	LOW PRESSURE/VELOCITY	CONCEALED	RECTANGULAR	FIBERGLASS	LINED	1/2"	---
		CONCEALED	ROUND	FIBERGLASS	LINED	1/2"	1
		UNCONDITIONED ATTICS	ALL	MINERAL FIBER	WRAPPED	1-1/2"	---

NOTES:
1. PROVIDE LINER ONLY WITHIN 10' OF FAN FOR ACCOUSTICS.

GENERAL REMARKS (APPLICABLE TO ALL TYPES):
1) ALL DUCTWORK, INSULATION AND MATERIALS IN PLENUMS MUST MEET ASTM E84 FLAME/SMOKE RATING OF 25/50.
2) ALL INSULATION THICKNESSES SHALL MEET ASHRAE 90.1 – 2016 REQUIREMENTS AT A MINIMUM.
3) REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION FOR INSULATION PRODUCTS AND SYSTEMS.

AIR HANDLER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	CFM	O.A. CFM	E.S.P. (IN. W.C.)	FAN HP	TOTAL COOLING CAPACITY (MBH)	ELECTRICAL VOLTAGE	MCA	MOCP	REMARKS
AH-1	YORK	AP-30BX21	1,000	---	0.5"	1/3	30.0	230V / 1PH	2.9	15	1,2

REMARKS:
1. CAPACITIES AND AIRFLOWS ARE MANUFACTURER'S VALUES AT RATED CONDITIONS, NOT ACTUAL OPERATING CONDITIONS.
2. AIR HANDLER SHALL BE COOLING ONLY. PROVIDE WITH TXV.
3. PROVIDE WITH DRAIN PAN UNDER AIR HANDLER, AND PROVIDE WITH FLOAT SWITCH IN PAN.
4. PROVIDE WITH FILTER.

LOUVER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	SERVICE	WIDTH (IN)	HEIGHT (IN)	CFM	APD (IN. WC)	MIN FREE AREA REQ'D (SF)	VELOCITY MAX (FPM)	REMARKS
L-1	RUSKIN	BV100	INTAKE	16	8	--	0.10	0.9	--	1,2

REMARKS:
1. PROVIDE EXTENDED SILL AND MOUNTING FRAME TO MATCH CONSTRUCTION.
2. PROVIDE COLOR AS SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.

CONDENSING UNIT SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	CAPACITY (MBH)	MINIMUM SEER	AMBIENT TEMP. (°F)	ELECTRICAL VOLTS / PH	M.C.A.	M.O.C.P.	REMARKS
CU-1	YORK	YCE30B2	30.0	14	105°	230V / 1PH	18.4	30	NOTE 1

REMARKS:
1. COOLING CAPACITY BASED ON A SUCTION TEMPERATURE OF 49°F.

WSKF ARCHITECTS

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MISSOURI CERTIFICATE OF AUTHORITY NO. E-2006023253
EXPIRES: DECEMBER 31, 2022

STATE OF MISSOURI WILLIAM E. KENT NUMBER PE-2004015662 PROFESSIONAL ENGINEER
04/18/22
William E. Kent - Engineer
MO# PE-2004015662

REVISIONS
ISSUE DATE: 4/18/2022

PROJECT INFO
210266-000

ENGINEER	DRAWN BY	CHECKED BY
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PLATTE RIDGE PARK
FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

MECHANICAL - SCHEDULES & DETAILS

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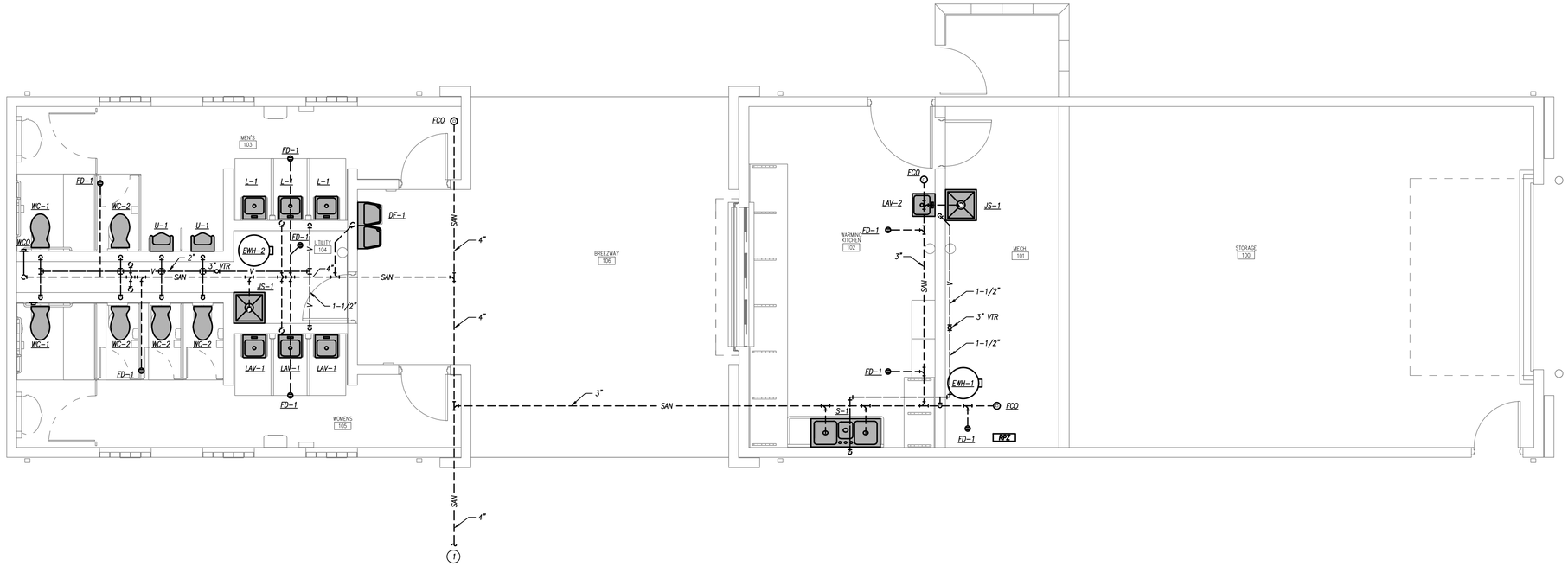
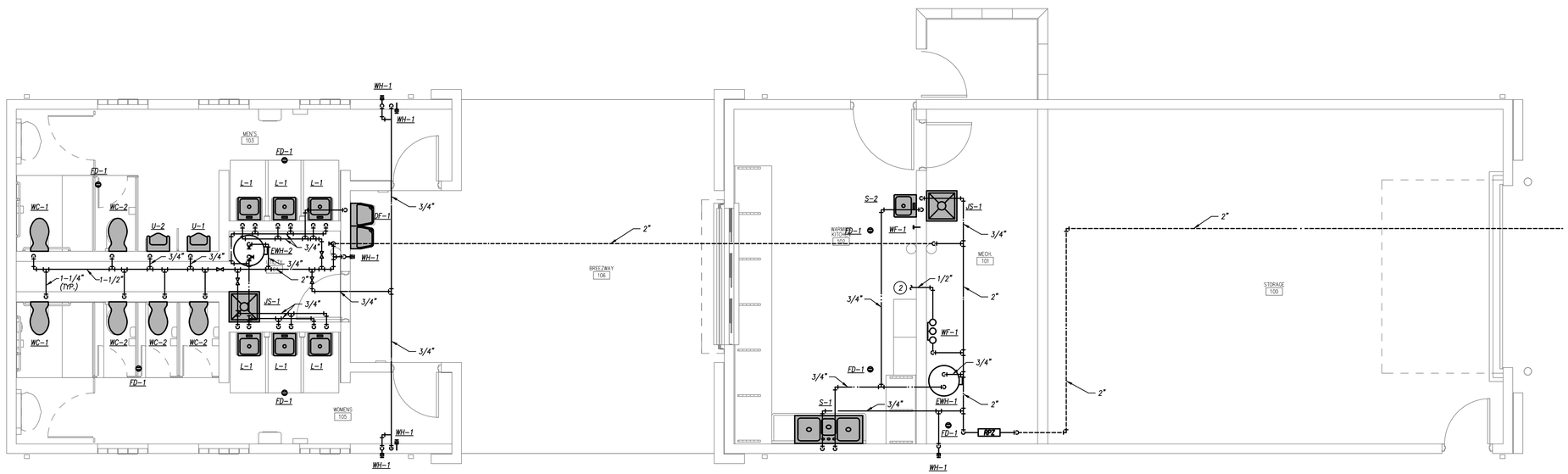


FLOOR PLAN - PLUMBING - WASTE & VENT

1/4" = 1'-0"



FLOOR PLAN - PLUMBING - DOMESTIC WATER

1/4" = 1'-0"

GENERAL PLUMBING NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. REFER TO PLUMBING FIXTURE / DRAIN SCHEDULES FOR PIPING SIZES FOR INDIVIDUAL CONNECTIONS TO FIXTURES AND RISERS NOT SHOWN ON PLANS.
3. NO SANITARY OR VENT PIPING BELOW GRADE SHALL BE LESS THAN 2".
4. NO DOMESTIC WATER PIPING SHALL BE SMALLER THAN 3/4" UNLESS NOTED OTHERWISE.
5. ALL VENT PIPING SHOWN IS DIAGRAMMATIC. USE APPROPRIATE FITTINGS FOR VENT PIPING BELOW FLOOD RIM OF FIXTURE.
6. NOT ALL INTERIOR CLEANOUTS ARE SHOWN FOR DRAWING CLARITY. CONTRACTOR SHALL INSTALL ALL CODE-REQUIRED CLEANOUTS (RE: GENERAL NOTES ON COVER SHEET). COORDINATE EXACT LOCATIONS OF CLEANOUTS WITH ARCHITECT.
7. INSTALL WATER PIPING SUCH THAT THE SYSTEM CAN BE DRAINED FOR WINTERIZATION OF THE BUILDING. SUPPLY DROPS SHALL DRAIN THROUGH ASSOCIATED FIXTURE VIA SHUT-OFF VALVE LOCATED AT BOTTOM OF VERTICAL DROP. MAINS SHALL SLOPE 1/4" PER FOOT AT ALL LOCATIONS ABOVE AND BELOW GRADE.
8. OWNER SHALL BE RESPONSIBLE FOR ADDING GLYCOL SOLUTION TO PLUMBING FIXTURE TRAPS TO PREVENT PIPES FROM FREEZING.
9. ALL FLOOR DRAIN TRAPS SHALL BE PROTECTED BY ONE OF THE FOLLOWING METHODS, TO BE INSTALLED AT CONTRACTOR'S DISCRETION AND IN COMPLIANCE WITH ADOPTED VERSION OF PLUMBING CODE AND/OR AHJ.
   9.1. PROVIDE TRAP SEALS LISTED FOR PROPOSED USE.
   9.2. PROVIDE TRAP PRIMERS. 1/2" TRAP PRIMER PIPING TO NEAREST TRAP PRIMER VALVE. PIPING SHALL BE TYPE "K" SOFT COPPER SEAMLESS WITH NO JOINTS FROM VALVE TO DRAIN.

PLUMBING PLAN KEYED NOTES

1. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
2. CONNECTION TO ICE MAKER. PROVIDE SHUTOFF VALVE AT WALL.
3. 1-1/2" V, 1/2" CW, 1/2" HW DOWN TO FIXTURE.
4. 1-1/4" CW, 1-1/2" V DOWN TO WATER CLOSET.
5. 3/4" CW, 1-1/2" V DOWN TO URINAL.

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WILLIAM E. KENT
NUMBER PE-2004015662
REGISTERED PROFESSIONAL ENGINEER
04/18/22
William E. Kent - Engineer
MO# PE-2004015662

REVISIONS
ISSUE DATE: 4/18/2022

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ENGINEER	DRAWN BY	CHECKED BY
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PLATTE RIDGE PARK FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

FLOOR PLAN - PLUMBING

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DRAWING NO.
P1.01

PIPING MATERIAL & INSULATION SCHEDULE

PIPING SYSTEM	SIZE	TYPE/SCHED	MATERIAL	ACCEPTABLE FITTINGS	FIELD TEST PRESSURE/TIME	ALLOWABLE IN PLENUMS	INSULATION TYPE	INSULATION THICKNESS
DOMESTIC COLD WATER	1/2"-2-1/2"	L	COPPER	SOLDER, PRO-PRESS	130 PSI - 1/2HR	YES	FIBERGLASS W/ ASJ	1/2"
DOMESTIC HOT WATER & HW RETURN	1/2"-1-1/4"	L	COPPER	SOLDER, PRO-PRESS	130 PSI - 1/2HR	YES	FIBERGLASS W/ ASJ	1"
DOMESTIC HOT WATER & HW RETURN	1-1/2"-2-1/2"	L	COPPER	SOLDER, PRO-PRESS	130 PSI - 1/2HR	YES	FIBERGLASS W/ ASJ	1-1/2"
DOM. HOT & COLD BELOW GRADE	1/2"-1-1/4"	K	COPPER	CONTINUOUS TUBING, BRAZED	130 PSI - 1/2HR	YES	ELASTOMERIC	1" (HOT ONLY)
SOIL & WASTE ABOVE GRADE	2"-8"	SCH. 40	PVC	SOLVENT JOINED	10 FT - 1/2HR	NO	----	----
SOIL & WASTE BELOW GRADE	2"-8"	SCH. 40	PVC	SOLVENT JOINED	10 FT - 1/2HR	NO	----	----
DRINKING FOUNT. DRAIN	ALL	----	----	----	----	YES	ELASTOMERIC	1/2"
RPZ AND SIMILAR EXPOSED DRAIN LINES	ALL	L	COPPER	SOLDER, PRO-PRESS	10 FT - 1/2HR	YES	----	----
CONDENSATE DRAIN INTERIOR	1/2"-2"	L	COPPER	SOLDER, PRO-PRESS	10 FT - 1/2HR	YES	FIBERGLASS W/ ASJ	1/2" (PLENUM ONLY)
DOM. WATER SERVICE BELOW GRADE	1"-3"	K	COPPER	CONTINUOUS TUBING, BRAZED	130 PSI - 1/2HR	YES	----	----
DOM. WATER SERVICE BELOW GRADE	1"-3"	DR 9	HDPE	CONTINUOUS TUBING, FUSED	130 PSI - 1/2HR	NO	----	----

NOTES
1. ALL INSULATION THICKNESSES SHALL MEET ADOPTED IECC AND ASHRAE 90.1 - 2016 REQUIREMENTS AT A MINIMUM.
2. REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION.

PLUMBING FIXTURE BRANCH CONNECTION SCHEDULE

FIXTURE TYPE	TRAP	PLUMBING FIXTURE PIPE SIZES WASTE	VENT	DCW	DHW
WATER CLOSET (FLUSH VALVE)	INTEGRAL	4"	2"	1"	---
URINAL (FLUSH VALVE)	INTEGRAL	2"	2"	3/4"	---
FLUSH TANK WATER CLOSET	INTEGRAL	4"	2"	1/2"	---
LAVATORY	PROVIDE TRAP	2"	1-1/2"	1/2"	1/2"
SINK	PROVIDE TRAP	2"	2"	1/2"	1/2"
MOP SINK	PROVIDE DEEP SEAL TRAP	3"	2"	1/2"	1/2"
FLOOR DRAIN	PROVIDE DEEP SEAL TRAP	AS SCHEDULED	1-1/2"	---	---
FLOOR SINK	PROVIDE TRAP	AS SCHEDULED	1-1/2"	---	---
DRINKING FOUNTAINS/EWC'S	PROVIDE TRAP	1-1/2"	1-1/2"	1/2"	--
SHOWERS/TUBS	PROVIDE TRAP	2"	1-1/2"	1/2"	1/2"
SHOWERS	PROVIDE TRAP	2"	1-1/2"	1/2"	1/2"
ICE MACHINE HOOKUP BOX	---	---	---	1/2"	---
WASHER HOOKUP BOXES	PROVIDE TRAP	2"	1-1/2"	1/2"	1/2"

FLOOR / ROOF DRAIN SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	SERVICE	TOP/GRATE SIZE	WASTE SIZE	REMARKS
FD-1	WADE	1100	FLOOR DRAIN	6"Ø	2"	NOTE 1

REMARKS:
1. PROVIDE WITH NICKEL BRONZE TOP.

WATER HEATER SCHEDULE - ELECTRIC

PLAN MARK	MANUFACTURER	MODEL NUMBER	GALLONS	USE	STYLE	HEIGHT (IN)	ELEMENTS NO.	ELEMENTS WATTS	TOTAL WATTS	RECOVERY @ 90°F RISE	VOLTAGE/ PHASE	REMARKS
EWH-1	STATE		50	CONCESSIONS	STORAGE TANK	60	2	6100	6100	100	240V / 1PH	NOTES 1,2
EWH-1	STATE		50	RESTROOMS	STORAGE TANK	60	2	6100	6,100	100	240V / 1PH	NOTES 1,2

REMARKS:
1. PROVIDE WITH EXPANSION TANK. SUPPORT EXPANSION TANK FROM STRUCTURE.
2. MOUNT ON CONCRETE EQUIPMENT PAD.

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE MODEL	FIXTURE DESCRIPTION	FITTINGS MODEL	FITTINGS AND TRIM: FITTINGS AND DESCRIPTION	REMARKS	PLUMBING FIXTURE PIPE SIZES WASTE	VENT	DCW	DHW
WC-1	AMERICAN STANDARD AFWALL 3351.101 CHURCH 9500C	ADA-COMPLIANT, 1.6 GALLON, WALL-MOUNTED FLUSH VALVE WATER CLOSET. SIPHON JET FLUSHING ACTION. TOP SPUD AND FLAT BOLT COVERS. WHITE VITREOUS CHINA ELONGATED BOWL. MOUNT TOP OF RIM AT 17" A.F.F. PROVIDE CHAIR CARRIER, FACEPLATE AND FOOT SUPPORTS FOR HANGER AND ALL OTHER REQUIRED MOUNTING HARDWARE. WHITE, SOLID PLASTIC, OPEN-FRONT SEAT FOR ELONGATED BOWL. INTEGRAL BUMPERS. EXTERNALCHECK HINGES WITH STAINLESS STEEL POSTS.	SLOAN ROYAL 111	EXPOSED WATER CLOSET FLUSH VALVE. CHROME-PLATED, METAL OSCILLATING NON-HOLD-OPEN HANDLE. 1" I.P.S. SCREWDRIVER BACK-CHECK ANGLE STOP WITH PROTECTIVE CAP. ADJUSTABLE TAILPIECE. 1.6 GPF, VACUUM BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 1-1/2" TOP SPUD. PROVIDE WALL AND SPUD FLANGES. HANDLE HEIGHT PER MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH ADA GUIDELINES.	6	4"	2"	1-1/4"	---
WC-2	AMERICAN STANDARD AFWALL 3351.101 CHURCH 9500C	1.6 GALLON, WALL-MOUNTED FLUSH VALVE WATER CLOSET. SIPHON JET FLUSHING ACTION. TOP SPUD AND FLAT BOLT COVERS. WHITE VITREOUS CHINA ELONGATED BOWL. MOUNT TOP OF RIM AT 15" A.F.F. PROVIDE CHAIR CARRIER, FACEPLATE AND FOOT SUPPORTS FOR HANGER AND ALL OTHER REQUIRED MOUNTING HARDWARE. WHITE, SOLID PLASTIC, OPEN-FRONT SEAT FOR ELONGATED BOWL. INTEGRAL BUMPERS. EXTERNALCHECK HINGES WITH STAINLESS STEEL POSTS.	SLOAN ROYAL 111	EXPOSED WATER CLOSET FLUSH VALVE. CHROME-PLATED, METAL OSCILLATING NON-HOLD-OPEN HANDLE. 1" I.P.S. SCREWDRIVER BACK-CHECK ANGLE STOP WITH PROTECTIVE CAP. ADJUSTABLE TAILPIECE. 1.6 GPF, VACUUM BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 1-1/2" TOP SPUD. PROVIDE WALL AND SPUD FLANGES. HANDLE HEIGHT PER MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH ADA GUIDELINES.	6	4"	2"	1-1/4"	---
UR-1	AMERICAN STANDARD WASHBROOK 6590.001	ADA COMPLIANT, WALL-HUNG URINAL. WHITE VITREOUS CHINA. 3/4" TOP SPUD. 1.0 GALLON SIPHON JET FLUSHING ACTION. MOUNT FIXTURE RIM AT 17" A.F.F. PROVIDE FLOOR-MOUNTED, HEAVY-DUTY TUBULAR STEEL UPRIGHTS, ADJUSTABLE CARRIER, PLATED HANGER, AND ALL OTHER REQUIRED MOUNTING HARDWARE.	SLOAN ROYAL 186-0.5	EXPOSED URINAL FLUSH VALVE. CHROME-PLATED, METAL OSCILLATING NON-HOLD-OPEN HANDLE. 3/4" I.P.S. SCREWDRIVER BACK-CHECK ANGLE STOP WITH PROTECTIVE CAP. ADJUSTABLE TAILPIECE. 1.0GPFN, VACUUM BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 3/4" TOP SPUD. PROVIDE WALL AND SPUD FLANGES. MAXIMUM HANDLE HEIGHT PER ADA STANDARDS.	6	2"	2"	1"	---
UR-2	AMERICAN STANDARD 6561.017	WALL-HUNG URINAL. WHITE VITREOUS CHINA. 3/4" TOP SPUD. 1.0 GALLON SIPHON JET FLUSHING ACTION. MOUNT FIXTURE RIM AT 24" A.F.F. PROVIDE FLOOR-MOUNTED, HEAVY-DUTY TUBULAR STEEL UPRIGHTS, ADJUSTABLE CARRIER, PLATED HANGER, AND ALL OTHER REQUIRED MOUNTING HARDWARE.	SLOAN ROYAL 186-0.5	EXPOSED URINAL FLUSH VALVE. CHROME-PLATED, METAL OSCILLATING NON-HOLD-OPEN HANDLE. 3/4" I.P.S. SCREWDRIVER BACK-CHECK ANGLE STOP WITH PROTECTIVE CAP. ADJUSTABLE TAILPIECE. 1.0GPFN, VACUUM BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 3/4" TOP SPUD. PROVIDE WALL AND SPUD FLANGES. MAXIMUM HANDLE HEIGHT PER ADA STANDARDS.	6	2"	2"	1"	---
L-1	AMERICAN STANDARD 0355.012	ADA-COMPLIANT WALL-HUNG LAVATORY. 20"x18" WHITE VITREOUS CHINA BOWL WITH 4" BACK FOR USE WITH CONCEALED ARM HANGER. FAUCET HOLES COORDINATED WITH FAUCET AND TRIM. PROVIDE CONCEALED ARM CARRIER. MOUNT TOP OF RIM AT 34" A.F.F.	AMERICAN STANDARD 1340M.119	PILLAR TAP METERING FAUCET, CHROME PLATED CAST BRASS MIXING FAUCET, SINGLE HOLE , 4-3/4" SPOUT, MECHANICAL MIXING VALVE, 0.5GPM VANDAL PROOF NON-AERATING SPRAY. CERAMIC CARTRIDGE. NO POP UP.	1,2,3,4,5	2"	1-1/2"	1/2"	1/2"
JS-1	FIAT TSB-100	JANITORS SINK: 24"x24"x12" PRECAST TERRAZO FLOOR SERVICE SINK. STAINLESS STEEL CAP AND 2 SIDE WALL TILING FLANGE. 3" STAINLESS STEEL CAST DRAIN AND STAINLESS STEEL STRAINER PLATE. PROVIDE STAINLESS STEEL WALL GUARDS, MOP BRACKETS, HOSE RACK.	CHICAGO FAUCET 897-CP	C.P. SERVICE SINK FITTING WITH VACUUM BREAKER, 3/4" HOSE THREAD ON SPOUT, ADJUSTABLE WALL BRACE, PAIL HOOK, AND 1/2" FLANGED FEMALE ADJUSTABLE ARMS WITH INTEGRAL STOPS. CAULK BETWEEN WALL AND FLANGE WITH GE SILICONE SEALANT. 3" C.I. "P" TRAP.	---	3"	2"	1/2"	1/2"
DF-1	HAWS 1119.14-1920	WALL MOUNTED, HEAVY DUTY, DUAL HEIGHT ADA-COMPLIANT, BARRIER-FREE, HEAVY DUTY DRINKING FOUNTAIN WITH BOTTLE FILLER. 3/16" WELDED STEEL CONSTRUCTION. 18GA STAINLESS BOWL. PROVIDE WITH CARRIER FOR WALL MOUNTING. MOUNT TRAP INSIDE OF BUILDING.	---	---	4	2"	2"	1/2"	
WH-1	ZURN Z1330XL	CONCEALED, AUTOMATIC DRAINING, ANTI-SIPHON WALL HYDRANT COMPLETE WITH NICKEL BRONZE BOX AND HINGED COVER WITH KEY, INTEGRAL BACKFLOW PREVENTER. BRASS CASING, ALL-BRONZE INTERIOR PARTS. NON-TURNING OPERATING ROD WITH FREE-FLOATING COMPRESSION CLOSURE VALVE. REPLACEABLE BRONZE SEAT AND SEAT WASHER. COMBINATION 3/4" FEMALE AND 1" MALE IP INLET CONNECTION STANDARD. INCLUDES OPERATING KEY.	---	---	---	---	---	3/4"	---
WF-1	ZURN Z1341XL	EXPOSED LEAD FREE WALL FAUCET WITH BACKFLOW PREVENTER. 3/4" MALE HOSE CONNECTION. WHEEL HANDLE IN MECHANICAL SPACES. LOOSE KEY OPERATION IN PUBLIC SPACES.	---	---	---	---	---	3/4"	---
S-1	ADVANCE TABCO	THREE-COMPARTMENT SINK WITH SIDE DRAIN BOARDS.16 GA. 304 SS SCULLERY SINK. 3 COMPARTMENTS 18" X 24" X 13-1/2" DEEP. 1-3/4" RADIUS COVED CORNERS. FULL LENGTH 8" BACKSPLASH W/ SLOPED TOP. 1-1/2" SLOPING TOP CHANNEL RIMS. REINFORCED DRAINBOARDS W/ PITCH. UNDERSIDE FULLY UNDERCOATED FOR SOUND/CONDENSATION. ALL EXPOSED SURFACES POLISHED TO A SATIN FINISH. NSF CERT.	ADVANCE TABCO	TWO HOLE DUAL HANDLE WALL MOUNT FAUCET, QUARTER TURN CERAMIC DISC CARTRIDGE, 1/2" ADJUSTABLE INLETS, SOLID BRASS CONSTRUCTION, CHROME FINISH, INCLUDES SPOUT SWING RESTRICTION PIN	---	---	---	---	---
S-2	ADVANCE TABCO	WALL-MOUNTED SINK. 18 GA, 304 SS. 18" X 18" X 5" DEEP. 1-3/4" RADIUS COVED CORNERS. FULL LENGTH 8" BACKSPLASH W/ SLOPED TOP. ALL EXPOSED SURFACES POLISHED TO A SATIN FINISH.	ADVANCE TABCO	TWO HOLE DUAL HANDLE WALL MOUNT FAUCET, QUARTER TURN CERAMIC DISC CARTRIDGE, 1/2" ADJUSTABLE INLETS, SOLID BRASS CONSTRUCTION, CHROME FINISH, INCLUDES SPOUT SWING RESTRICTION PIN. INCLUDE SPOUT MOUNTED EYE WASH.	---	---	---	---	---	---
WF-1	SPIROPURE (OR EQUAL)	3-STAGE WATER FILTER HOUSING FOR STANDARD 2.5"x10" FILTERS. OPTIONAL: 4.5"x10" FILTERS. FIRST STAGE SEDIMENT FILTER ELEMENT, 25 MICRON. SECOND STAGE ANTI-SCALE FILTER ELEMENT. THIRD STAGE ACTIVATED CARBON FILTER ELEMENT.	---	---	---	---	---	---	---

REMARKS:
1. PROVIDE CHROME-PLATED BRASS TAILPIECE AND GRID DRAIN.
2. PROVIDE CHROME-PLATED BRASS P-TRAP.
3. PROVIDE LOOSE KEY STOPS AND FLEXIBLE RISERS.
4. PROVIDE CONCEALED ARM TYPE CARRIER WITH SQUARE, TUBULAR STEEL UP-RIGHTS AND BLOCK TYPE BASES. PROVIDE WITH SHUT OFF VALVES AND BYPASS LOOP.
5. INSULATE EXPOSED TAILPIECE, P-TRAP, AND WATER RISERS. REFER TO SPECIFICATIONS FOR INSULATION METHODS.
6. PROVIDE FLUSH VALVE HANDLE ON WIDE SIDE OF STALL.
7. PROVIDE HANDLE STOPS AND FLEXIBLE RISERS.
8. PROVIDE CHROME-PLATED BRASS TAILPIECE AND BASKET STRAINER.

GENERAL NOTES (APPLICABLE TO ALL FIXTURES):
1) ALL PUBLIC LAVATORIES AND SINKS SHALL BE PROVIDED WITH ANTI-SCALD ASSE 1070 LISTED VALVE ON HOT WATER SUPPLY.
2) VERIFY PLUMBING MATERIALS AND EQUIPMENT COORDINATE BETWEEN TRADES. VERIFY CABINET SIZES, COUNTERTOP MATERIALS, WALL THICKNESSES, ETC ARE APPROPRIATE FOR SPECIFIED EQUIPMENT PRIOR TO ORDER.

WSKF ARCHITECTS

pkmr ENGINEERS 22-113
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913.602.2400 WWW.PKMRENG.COM
MO State Certificate of Authority #E-2002020886

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MISSOURI CERTIFICATE OF AUTHORITY NO. E-2006023253
EXPIRES: DECEMBER 31, 2022

STATE OF MISSOURI WILLIAM E. KENT NUMBER PE-2004015662 PROFESSIONAL ENGINEER
04/18/22
William E. Kent - Engineer
MO# PE-2004015662

REVISIONS
ISSUE DATE: 4/18/2022

PROJECT INFO
210266-000

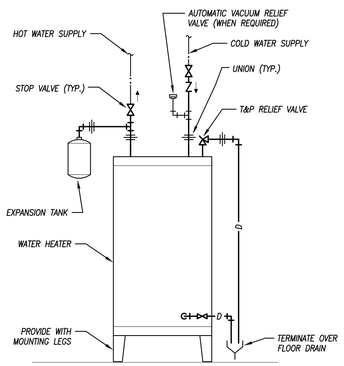
ENGINEER	DRAWN BY	CHECKED BY
---	---	---

PLATTE RIDGE PARK
FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

PLUMBING - SCHEDULES

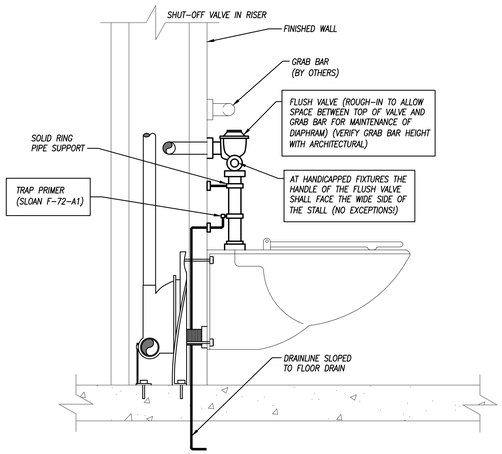
Z:\22\22.113\DRAWINGS\22113 - P201.DWG

DRAWING NO.
P2.01



ELECTRIC WATER HEATER

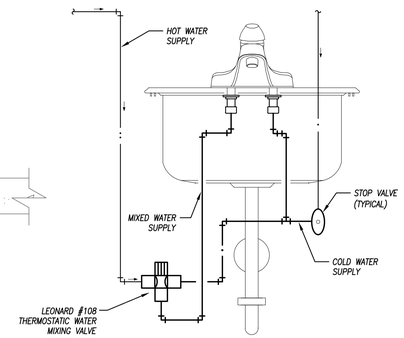
NOT TO SCALE



DETAIL IS FOR TRAP PRIMER AND FLUSH VALVE INSTALLATION PURPOSES ONLY. SEE PLANS AND FIXTURE SCHEDULE FOR WATER CLOSET INFORMATION.

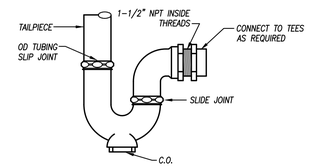
WATER CLOSET INSTALLATION DETAIL

NOT TO SCALE



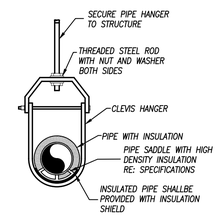
HAND WASHING SINK/LAVATORY TEMPERED WATER SCHEMATIC

NOT TO SCALE



P-TRAP DETAIL

NOT TO SCALE



PIPE HANGER DETAIL

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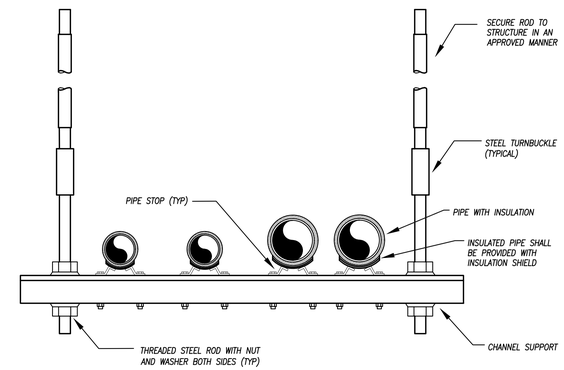
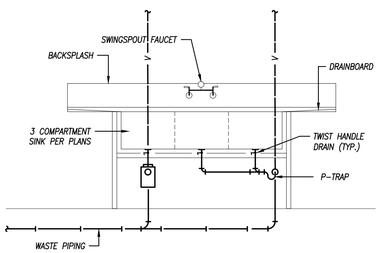


MULTIPLE PIPE TRAPEZE HANGER DETAIL

NOT TO SCALE



3-COMPARTMENT SINK DETAIL

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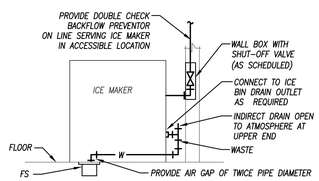
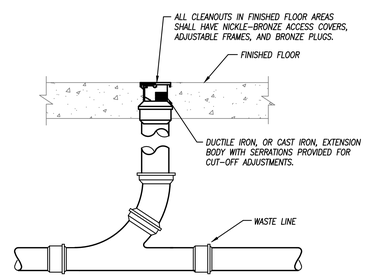


NOTES:
1. PROVIDE FLOOR DRAIN AT FRONT EDGE OR SIDE EDGE OF ICE MACHINE, WHERE ACCESSIBLE FOR CLEANING – NOT UNDER ANY EQUIPMENT.
2. PROVIDE COLD WATER ROUGH-IN AT TOP OF ICE MACHINE. ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED TO SUIT CONDITIONS. VERIFY CONNECTIONS WITH MANUFACTURER.

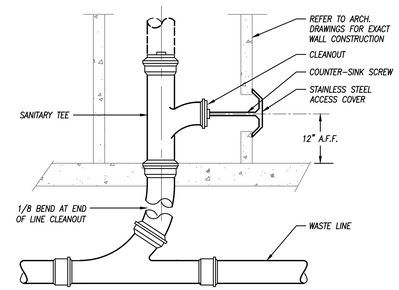
ICE MACHINE CONNECTION DETAIL

NOT TO SCALE



FLOOR CLEANOUT DETAIL

NOT TO SCALE



WALL CLEANOUT DETAIL

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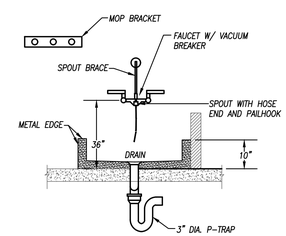

MOP SINK DETAIL

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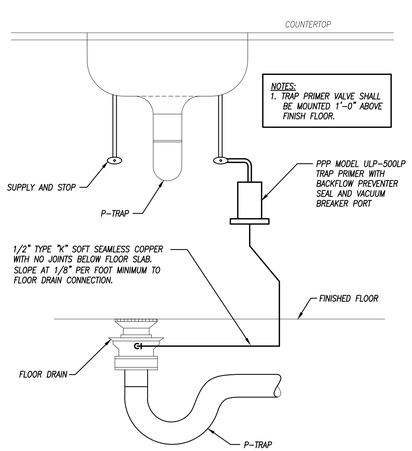
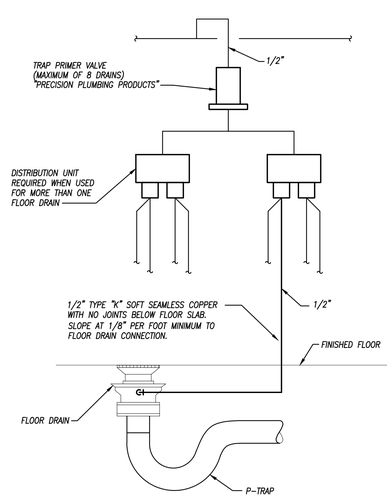


NOTES:
1. TRAP PRIMER VALVE SHALL BE MOUNTED 1'-0" ABOVE FINISH FLOOR.

UNDER LAVATORY TRAP PRIMER DETAIL

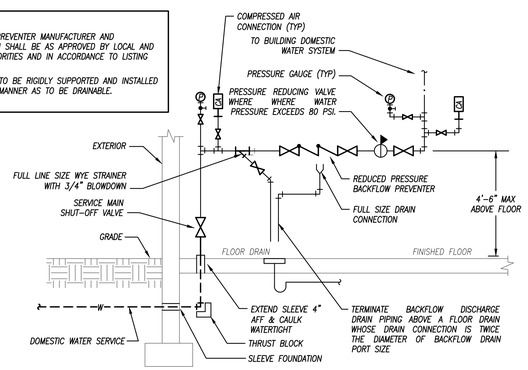
NOT TO SCALE



AUTOMATIC TRAP PRIMER

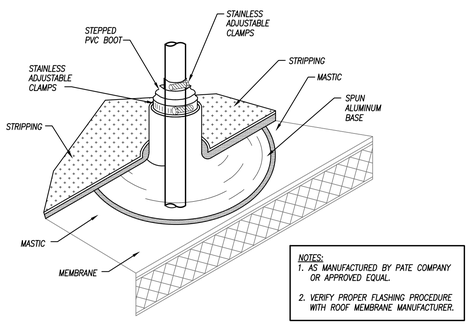
NOT TO SCALE

NOTES:
1. BACKLFOW PREVENTER MANUFACTURER AND INSTALLATION SHALL BE AS APPROVED BY LOCAL AND STATE AUTHORITIES AND IN ACCORDANCE TO LISTING OF DEVICE.
2. ALL PIPING TO BE RIGIDLY SUPPORTED AND INSTALLED IN SUCH A MANNER AS TO BE DRAINABLE.



WATER SERVICE REDUCED PRESSURE BACKFLOW PREVENTER DETAIL

NOT TO SCALE



NOTES:
1. AS MANUFACTURED BY PATE COMPANY OR APPROVED EQUAL.
2. VERIFY PROPER FLASHING PROCEDURE WITH ROOF MEMBRANE MANUFACTURER.

ROOF PLUMBING VENT

NOT TO SCALE

WSKF ARCHITECTS

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22-113
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MO State Certificate of Authority #E-2002020886

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North Liberty,IA | Sioux City,IA
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North Kansas City,MO
Lenexa, KS

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MISSOURI CERTIFICATE OF AUTHORITY NO. E-2006023253
EXPIRES: DECEMBER 31, 2022

STATE OF MISSOURI
WILLIAM E. KENT
NUMBER PE-2004015662
REGISTERED PROFESSIONAL ENGINEER
04/18/22
William E. Kent - Engineer
MO# PE-2004015662

REVISIONS
ISSUE DATE: 4/18/2022

PROJECT INFO
210266-000

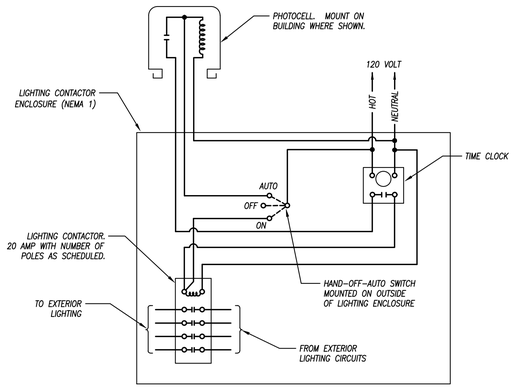
ENGINEER	DRAWN BY	CHECKED BY
---	---	---

PLATTE RIDGE PARK
FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

PLUMBING - DETAILS

Z:\22\22-113\DRAWINGS\22113 - P301.DWG

DRAWING NO.
P3.01



EXTERIOR LIGHTING CONTROL

NOT TO SCALE

LIGHT FIXTURE SCHEDULE

FIXTURE TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LED MODULE / DRIVER							REMARKS
				ID	WATTS	LUMENS	CRI	CCT	DIMMING	VOLTAGE	
A	WILLIAMS	6DR SERIES	6" ROUND RECESSED DOWNLIGHT. DIE-FORMED STEEL PAN WITH FINNED, EXTRUDED ALUMINUM PASSIVE HEAT SINK. SEMI-SPECULAR LOW IRIDESCENT FINISH ALUMINUM REFLECTOR WITH WIDE BEAM ANGLE/DISTRIBUTION AND FLUSH LENS. UL-LISTED WET LOCATION UNDER COVERED CEILING.	L40	36.4	3122	70	3000K	NO	120	1
B	WILLIAMS	AVX	4'-0" LONG x 8-1/2" WIDE x 2-13/16" HIGH ARCHITECTURAL SURFACE-MOUNTED FIXTURE. DIE-FORMED ALUMINUM HOUSING WITH RIBBED, TRANSLUENT, MATTE WHITE ACRYLIC DIFFUSER AND VANDAL WRAP. WHITE POWDER COAT FINISH. UL LISTED WET LOCATION UNDER COVERED CEILING.	L46	33.9	4600	80	3500K	0-10V	120	1
C	LUMARK	CROSSTOUR XTOR SERIES	LOW-PROFILE EXTERIOR WALL-MOUNTED FIXTURE. ONE-PIECE, DIE-CAST ALUMINUM HOUSING. IMPACT-RESISTANT, TEMPERED GLASS LENS. FORWARD THROW OPTICS. POWDER COAT FINISH DARK BRONZE - COORDINATE WITH ARCHITECT/BUILDING OWNER. UL LISTED WET LOCATION.	3B-Y	26	2,575	70	3000K	NO	120	1
XC	DUAL-LITE	EVC SERIES	COMBINATION EMERGENCY LIGHTING UNIT / EXIT LIGHT. UV-STABLE THERMOPLASTIC HOUSING, FINISH WHITE. ADJUSTABLE EYEBALL STYLE LIGHTING HEADS WITH GLASS LENS FOR EMERGENCY LIGHT. EXIT SIGN TO HAVE RED LETTERS WITH DIRECTIONAL ARROWS AS INDICATED ON THE PLANS. MAINTENANCE-FREE LITHIUM ION PHOSPHATE BATTERY FOR 90 MINUTE OPERATION OF LAMPS AND EXIT SIGN. FULLY AUTOMATIC, SOLID-STATE CHARGER WITH TEST SWITCH AND AC-ON LIGHT.	TOTAL POWER CONSUMPTION = 2.4 WATTS.		-	-	-	-	120	1
				EMERGENCY: TWO (2) HIGH-OUTPUT LEDS.		-	-	-	-		
				EXIT: FOUR (4) HIGH-OUTPUT LEDS.		-	-	-	-		

REMARKS:

1. FURNISH WITH AND INSTALL ALL NECESSARY HARDWARE AND MOUNTING BRACKETS.

GENERAL NOTES (APPLICABLE TO ALL FIXTURES):

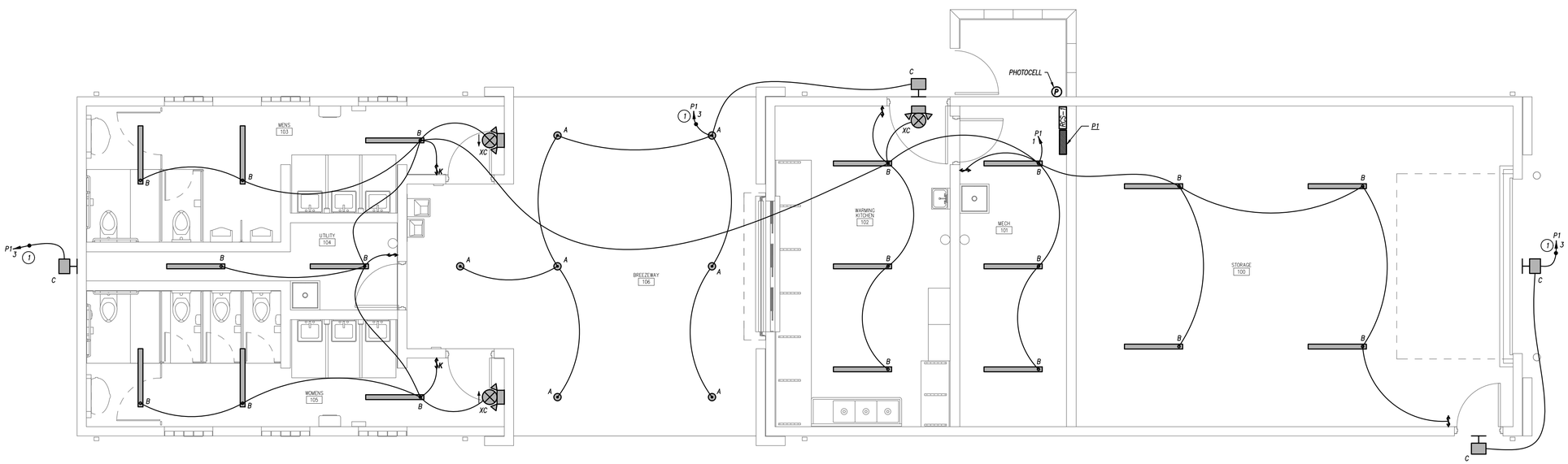
1) EQUALS ARE ACCEPTABLE ON ALL LIGHT FIXTURES UNLESS SPECIFICALLY NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR APPROVED EQUAL FIXTURE MANUFACTURERS.
2) ALL DRIVERS ARE INTEGRAL TO FIXTURE UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR ADDITIONAL FIXTURE/DRIVER/BALLAST REQUIREMENTS.
3) ALL FIXTURES WITH PAINTED METAL PARTS SHALL BE PAINTED AFTER FABRICATION.
4) LUMENS LISTED FOR LED FIXTURES ARE GENERALLY DELIVERED LUMENS UNLESS NOTED OTHERWISE.
5) ALL EXTERIOR LED FIXTURES ARE FULL CUTOFF UNLESS NOTED OTHERWISE.
6) ALL FIXTURES IN FOOD PREPARATION OR SERVING AREAS SHALL BE FURNISHED WITH SHATTER-RESISTANT LAMPS UNLESS LENSED.

GENERAL LIGHTING NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. LIGHT FIXTURES INDICATED AS EMERGENCY FIXTURES ARE TO FUNCTION AS NIGHT LIGHTS UNLESS SPECIFICALLY SHOWN SWITCHED.
3. ALL CIRCUITING SHOWN ON THIS PLAN IS DIAGRAMMATIC.
   3.1. ALL FIXTURES SHALL BE FED FROM JUNCTION BOXES WITH LIGHT FIXTURE WHIPS (<6'). DAISY-CHAINING OF FIXTURES IS NOT ALLOWED.
   3.2. SWITCH BOX LOCATIONS SHALL BE WIRED SO THAT A NEUTRAL WIRE IS AVAILABLE AT THE SWITCH BOX LOCATION, EITHER IN THE BOX OR AVAILABLE TO BE ADDED VIA RACEWAY OR AN ACCESSIBLE WALL CAVITY.
   3.3. WALL SWITCHES FOR SEPARATE LOAD TYPES (EM/NORMAL, 120/277V, ETC.) SHALL NOT BE IN A SINGLE BOX.
   3.4. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

LIGHTING PLAN KEYED NOTES

(1) ROUTE THROUGH REMOTE CONTROL SWITCH RCS-1, THEN HOMERUN.



FLOOR PLAN - LIGHTING

1/4" = 1'-0"

WSKF ARCHITECTS

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MISSOURI CERTIFICATE OF AUTHORITY NO. E-2006023253
EXPIRES: DECEMBER 31, 2022

STATE OF MISSOURI
MICHAEL D. RAAF
NUMBER PE-2005028097
REGISTERED PROFESSIONAL ENGINEER
04/18/22
Michael D. Raaf - Engineer
MO# PE-2005028097

REVISIONS
ISSUE DATE: 4/18/2022

PROJECT INFO
210266-000

ENGINEER	DRAWN BY	CHECKED BY
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PLATTE RIDGE PARK
FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

FLOOR PLAN - LIGHTING

Z:\22\22.113\DRAWINGS\22113 - E101.DWG

DRAWING NO.
E1.01

SINGLE-SECTION PANELBOARD SCHEDULE

PANEL DESIGNATION: **P1**

MOUNTING: *SURFACE*
LOCATION: *MECH 101*

MAIN LUG AMPS: *225*
MAIN BREAKER: *225*
VOLTAGE: *240/120*
PHASE/WIRE: *1Ø, 3W*

DESCRIPTION	PHASE A	PHASE B	C/B TRIP	C/B POLE	CIRCUIT #		C/B POLE	C/B TRIP	PHASE A	PHASE B	DESCRIPTION
LTS: INTERRIOR	*782*		*20*	*1*	1	2	*2*	*30*	*1766*		*CONDENSING UNIT CU–1*
LTS: EXTERIOR		*384*	*20*	*1*	3	4				*1766*	
SPARE	*–*		*20*	*1*	5	6	*2*	*15*	*278*		*AIR HANDLER AH–1*
RECEPT: RESTROOMS, UTILITY		*540*	*20*	*1*	7	8				*278*	
HAND DRYER	*1000*		*20*	*1*	9	10	*2*	*40*	*3500*		*WATER HEATER EWH–1*
HAND DRYER		*1000*	*20*	*1*	11	12				*3500*	
RECEPT: EXTERIOR	*540*		*20*	*1*	13	14	*2*	*40*	*3500*		*WATER HEATER EWH–2*
WATER COOLER		*540*	*20*	*1*	15	16				*3500*	
RECEPT: N. WARMING KITCHEN	*180*		*20*	*1*	17	18	*1*	*20*	*900*		*RECEPT: MECH*
RECEPT: N. WARMING KITCHEN		*180*	*20*	*1*	19	20	*1*	*20*		*540*	*RECEPT: STORAGE*
RECEPT: N. WARMING KITCHEN	*180*		*20*	*1*	21	22	*1*	*20*	*540*		*RECEPT: OVERHEAD DOOR*
RECEPT: N. WARMING KITCHEN		*360*	*20*	*1*	23	24	*1*	*20*		*1176*	*SITE TURBINE PUMP*
GARBAGE DISPOSAL	*696*		*15*	*1*	25	26	*1*	*15*	*852*		*SITE BLOWER*
RECEPT: S. WARMING KITCHEN		*180*	*20*	*1*	27	28	*1*	*60*		*2028*	*WIRE GUTTER*
RECEPT: S. WARMING KITCHEN	*180*		*20*	*1*	29	30	*1*	*15*	*528*		*EXHAUST FAN EF–1*
SPARE		*–*	*20*	*1*	31	32	*1*	*20*		*–*	*SPARE*
SPARE	*–*		*20*	*1*	33	34	*1*	*20*	*–*		*SPARE*
SPARE		*–*	*20*	*1*	35	36	*1*	*20*		*–*	*SPARE*
SPARE	*–*		*20*	*1*	37	38	*1*	*20*	*–*		*SPARE*
SPACE		*–*	*–*	*1*	39	40	*1*	*–*		*–*	*SPACE*
SPACE	*–*		*–*	*1*	41	42	*1*	*–*	*–*		*SPACE*
TOTALS	*3558*	*3184*							*11864*	*12788*	TOTALS

PANELBOARD SIZING LOAD			
LOAD DESCRIPTION	CONNECTED	DEMAND	CODE MIN. (VA)
LIGHTS	*1,166*	*1.25*	*1,458*
RECEPTACLES	*4,860*	*10KVA + 50% REST*	*4,860*
MOTORS	*3,808*	*1.25 x LARGEST + SUM OF REST*	*4,102*
AIR CONDITIONING	*3,532*	*1.00*	*3,532*
SPACE HEATING	*0*	*0.00*	*0*
CONTINUOUS	*14,000*	*1.25*	*17,500*
NON-CONTINUOUS	*4,028*	*1.00*	*4,028*
MISC. LOADS 1	*0*	*1.00*	*0*
MISC. LOADS 2	*0*	*1.00*	*0*
		SIZING LOAD:	35,480
		SIZING LOAD (AMPS):	148

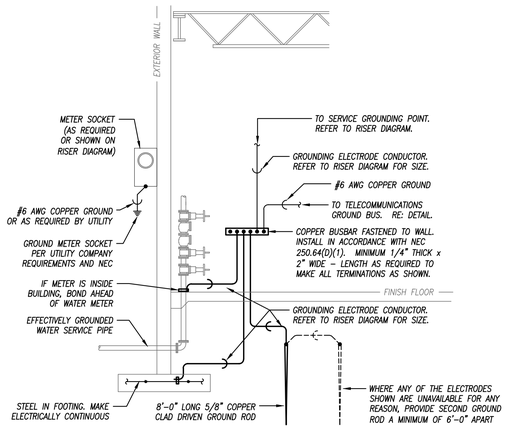
CONNECTED PHASE LOADS		
PHASE	VA	AMPS
A	*15,422*	*128.5*
B	*15,972*	*133.1*
TOTALS	31,394	130.8

REMARKS:
1. *SERVICE ENTRANCE RATED.*
G *FURNISH GFCI–PROTECTED BREAKER.*

EQUIPMENT FAULT CURRENT RATING SCHEDULE			
EQUIPMENT	SCA **	SCCR	NOTES
PANELBOARD P1	*12,041*	*22,000*	*1*

NOTES:
1. *RATING BASED ON AN ASSUMED FAULT AT UTILITY CO. TRANSFORMER OF 13,889 AIC.*
2. *EQUIPMENT MAY BE SERIES RATED.*
** *CALCULATIONS PERFORMED USING BUSSMANN POINT–TO–POINT METHOD.*

EQUIPMENT FEEDER SCHEDULE									
FEEDER NO.	EQUIPMENT	LOAD (AMPS)	FEEDER SETS	FEEDER # OF WIRES	FEEDER SIZE	FEEDER GROUND	FEEDER MATERIAL	CONDUIT SIZE	CONDUIT TYPE
F1	*PANELBOARD P1*	*147.8*	*1*	*3*	*#4/0*	*–*	*COPPER*	*2"*	*EMT*
F2	*WIREWAY*	*0.0*	*1*	*3*	*#3*	*#8*	*COPPER*	*1–1/4"*	*EMT*
F3	*TURBINE PUMP*	*0.0*	*1*	*3*	*#12*	*#12*	*COPPER*	*1/2"*	*EMT*
F4	*SMALL BLOWER*	*0.0*	*1*	*3*	*#12*	*#12*	*COPPER*	*1/2"*	*EMT*

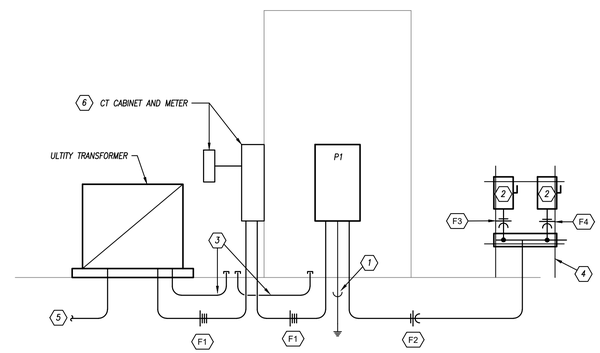


ELECTRICAL SERVICE GROUNDING DETAIL

NOT TO SCALE

RISER DIAGRAM KEYED NOTES

1. *(1) #4 GROUNDING ELECTRODE IN 1/2" CONDUIT.*
2. *30 AMP, 2–POLE, FUSED, HEAVY DUTY DISCONNECT SWITCH IN NEMA 3R ENCLOSURE. FUSE WITH 20A FUSES. MAINTAIN SERVICE CLEARANCES ABOUT DISCONNECT PER NEC AND MAINTAIN ALL REQUIRED EQUIPMENT CLEARANCES PER MANUFACTURER'S RECOMMENDATIONS.*
3. *PROVIDE TWO (2) SETS OF (2) 4" EMPTY CONDUITS WITH PULL STRINGS FOR FUTURE ELECTRICAL SERVICES. STUB UP AND CAP.*
4. *PROVIDE H–FRAME UNISTRUT FOR WIREWAY AND FUSIBLE DISCONNECT. COORDINATE ALL WORK WITH CIVIL. REFER TO SITE AND CIVIL DRAWING FOR MORE INFORMATION.*
5. *(1) 4" CONDUIT WITH PULL STRING. INSTALL AT 36" BELOW GRADE AND PROVIDE WARNING TAPE AT 18" BELOW GRADE REFER TO CIVIL PLANS FOR CONTINUATION. COORDINATE ALL WORK WITH UTILITY.*
6. *PROVIDE CT CABINET BASE FOR FUTURE SERVICE. COORDINATE ALL WORK WITH ELECTRICAL UTILITY.*



ELECTRICAL RISER DIAGRAM

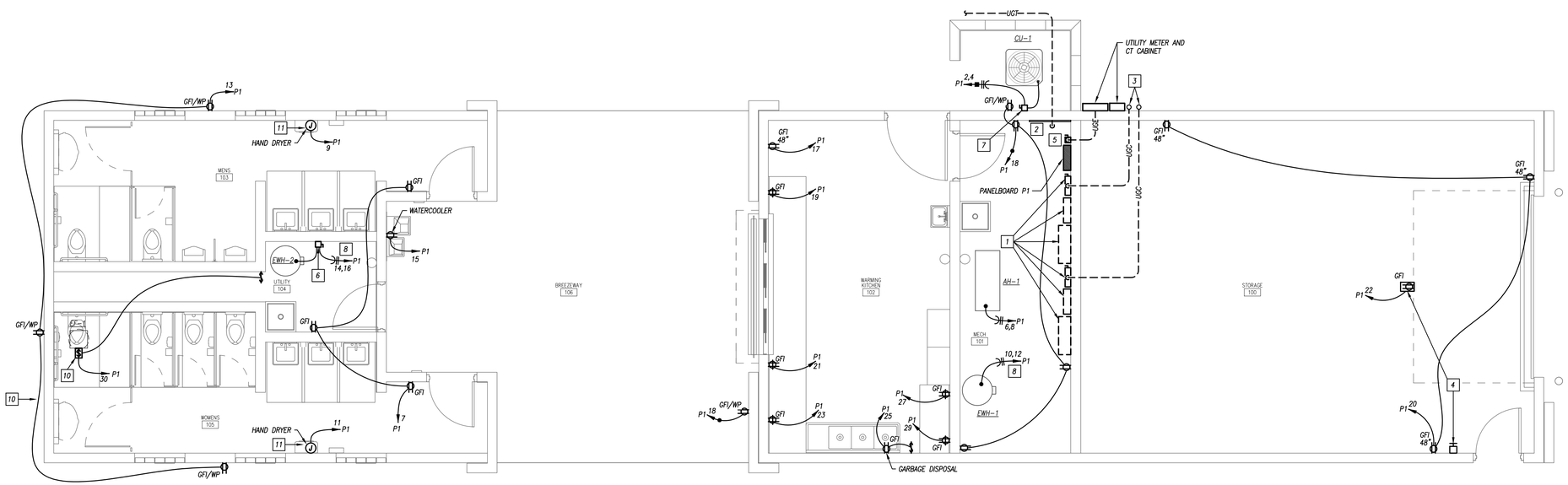
NOT TO SCALE

GENERAL POWER NOTES

1. *REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.*
2. *COORDINATE EXACT NEMA CONFIGURATIONS OF RECEPTACLES SERVING EQUIPMENT WITH EXACT EQUIPMENT BEING FURNISHED.*
3. *REFER TO THE SPECIFICATIONS FOR ADDITIONAL LOCATIONS/REQUIREMENTS FOR RECEPTACLES, INCLUDING GFCI, WEATHER–RESISTANT, HOSPITAL–GRADE, AND TAMPER–RESISTANT RECEPTACLES.*
4. *EXACT MECHANICAL EQUIPMENT LOCATIONS MAY NOT BE SHOWN FOR CLARITY. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT, DUCT DETECTORS, ETC. WITH MECHANICAL DRAWINGS AND CONTRACTOR.*
5. *COORDINATE EXACT LOCATIONS OF SMOKE DETECTORS WITH CEILING FANS, HVAC DIFFUSERS, SPRINKLER HEADS, ETC. PER NFPA REQUIREMENTS.*

POWER PLAN KEYED NOTES

1. *FUTURE EQUIPMENT FOR FUTURE FIELD LIGHTS. PRESERVE WALL SPACE FOR FUTURE FIELD LIGHTING PANELS AND CONTROLS.*
2. *4'–0" x 8'–0" x 3/4" THICK PLYWOOD TELECOMMUNICATIONS BACKBOARD. MOUNT AT 6" A.F.F. PLYWOOD SHALL BE FIRE–TREATED.*
3. *PROVIDE TWO (2) SETS OF (2) 4" EMPTY CONDUITS WITH PULL STRINGS FOR FUTURE ELECTRICAL SERVICES. STUB UP AND CAP.*
4. *POWER FOR DOOR OPERATOR. PROVIDE ALL REQUIRED POWER AND CONTROL WIRING AND ASSOCIATED CONDUIT FOR ACCESSORIES INCLUDING PHOTOELECTRIC EMITTERS AND RECEIVER FOR A COMPLETE SYSTEM. VERIFY DOOR OPERATOR SYSTEM REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.*
5. *200 AMP, 3–POLE, HEAVY–DUTY FUSIBLE DISCONNECT SWITCH IN NEMA 3R ENCLOSURE. FUSE WITH 200A FUSES. SWITCH SHALL BE SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT.*
6. *60 AMP, 2–POLE, NON–FUSED, HEAVY DUTY DISCONNECT SWITCH IN NEMA 1 ENCLOSURE. MAINTAIN SERVICE CLEARANCES ABOUT DISCONNECT PER NEC AND MAINTAIN ALL REQUIRED EQUIPMENT CLEARANCES PER MANUFACTURER'S RECOMMENDATIONS.*
7. *30 AMP, 2–POLE, NON–FUSED, HEAVY DUTY DISCONNECT SWITCH IN NEMA 3R ENCLOSURE. MAINTAIN SERVICE CLEARANCES ABOUT DISCONNECT PER NEC AND MAINTAIN ALL REQUIRED EQUIPMENT CLEARANCES PER MANUFACTURER'S RECOMMENDATIONS.*
8. *(2) #8 WIRE AND (1) #12 GROUND IN 3/4" CONDUIT.*
9. *MOUNT TOGGLE DISCONNECT UNDER FAN SHROUD.*
10. *ROUTE CONCEALED (TYPICAL).*
11. *CONDUIT TO HAND DRYER TO BE CONCEALED.*



FLOOR PLAN - POWER

1/4" = 1'-0"

WSKF ARCHITECTS

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MISSOURI CERTIFICATE OF AUTHORITY NO. E-2006023253
EXPIRES: DECEMBER 31, 2022

STATE OF MISSOURI
MICHAEL D. RAAF
NUMBER PE-2005028097
REGISTERED PROFESSIONAL ENGINEER
4/18/22
Michael D. Raaf - Engineer
MO# PE-2005028097

REVISIONS
ISSUE DATE: 4/18/2022

PROJECT INFO
210266-000

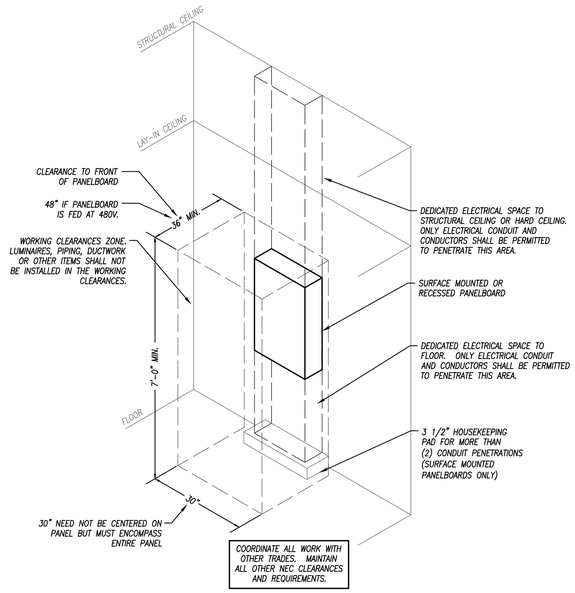
ENGINEER ---
DRAWN BY ---
CHECKED BY ---

PLATTE RIDGE PARK
FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

FLOOR PLAN - POWER

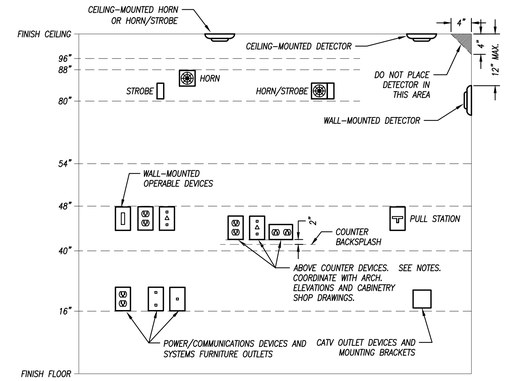
Z:\22\22.113\DRAWINGS\22113 - E102.DWG

DRAWING NO.
E1.02



TYPICAL PANELBOARD INSTALLATION DETAIL

NOT TO SCALE



GENERAL NOTES:
1. MOUNTING HEIGHTS SHOWN IN THIS DETAIL ARE TYPICAL UNLESS OTHERWISE NOTED ON THE PLANS.
2. SEE ARCHITECTURAL ELEVATIONS FOR SPECIAL CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS.
3. ALL INSTALLATIONS SHALL COMPLY WITH ADA.

VISUAL FIRE ALARM NOTIFICATION DEVICES (STROBE)
LOCATE DEVICE SO THE BOTTOM OF THE DEVICE IS BETWEEN 80" AND 96" A.F.F. (NFPA) OR 6" BELOW CEILING, WHICHEVER IS LOWER (ADA 2010).

AUDIBLE FIRE ALARM NOTIFICATION DEVICES (HORN)
LOCATE DEVICE SO THAT THE TOP OF UNIT IS NOT MORE THAN 90" A.F.F. AND NOT LESS THAN 6" BELOW CEILING (NFPA)

FIRE ALARM ACTIVATION DEVICES (PULL STATION)
LOCATE FRONT-APPROACH DEVICES SO THAT THE HIGHEST OPERABLE PORTION OF THE DEVICE IS NOT MORE THAN 48" A.F.F (ADA 2010) AND NOT LESS THAN 42" A.F.F. (NFPA).

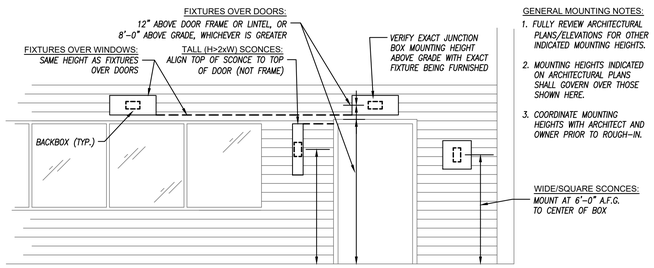
POWER/COMMUNICATION DEVICES:
OUTLETS SHALL BE LOCATED AT 16" A.F.F. TO THE BOTTOM OF THE BOX. ABOVE COUNTER DEVICES SHALL BE LOCATED AT 2" ABOVE THE BACKSPLASH OF THE COUNTER TO THE BOTTOM OF THE DEVICES. VERIFY WITH ARCHITECTURAL DETAILS.

WALL-MOUNTED OPERABLE DEVICES:
OPERABLE DEVICES SHALL BE LOCATED AT 48" A.F.F. TO THE TOP OF THE OPERABLE PORTION OF THE DEVICE.

WALL-MOUNTED OPERABLE DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
LIGHT SWITCHES, DIMMERS, CONTROLS, ETC.
PUSH BUTTONS
NURSE/PATIENT CALL DEVICES (INLUDING THOSE FOR STAFF USE)
OTHER CONTROL OR "CALL" DEVICES

MOUNTING HEIGHTS FOR WALL-MOUNTED DEVICES

NOT TO SCALE



GENERAL MOUNTING NOTES:
1. FULLY REVIEW ARCHITECTURAL PLANS/ELEVATIONS FOR OTHER INDICATED MOUNTING HEIGHTS.
2. MOUNTING HEIGHTS INDICATED ON ARCHITECTURAL PLANS SHALL GOVERN OVER THOSE SHOWN HERE.
3. COORDINATE MOUNTING HEIGHTS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.

EXTERIOR BUILDING-MOUNTED LIGHT FIXTURE MOUNTING HEIGHTS DETAIL

NOT TO SCALE

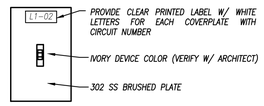
SERVICE ENTRANCE EQUIPMENT LABEL — PHENOLIC
EQUIPMENT FULLY-RATED AT 65,000 AMPERES RMS SYM
AVAILABLE FAULT CURRENT: 61,603 AMPERES
DATE CALCULATED: 12/06/2015

SWITCHBOARD LABEL — PHENOLIC
SWITCHBOARD SWDP1
FED FROM UTILITY COMPANY TRANSFORMER
208/120V, 1200A, 3-PHASE

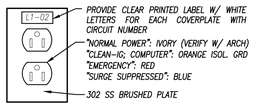
ELECTRICAL PANELBOARD LABEL — PHENOLIC
PANELBOARD LN1
FED FROM SWITCHBOARD SWDP1 IN ROOM #332
208/120V, 200A, 3-PHASE

DISCONNECT SWITCH/STARTER EQUIPMENT LABEL
RTU-1A
LP1-CKT 32,34,36
PHENOLIC

REMOTE DUCT DETECTOR TEST
RTU-1A
PRINTED LABEL (CLEAR W/ WHITE TEXT)



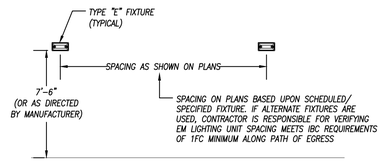
SWITCHES



RECEPTACLES

LABELING DETAIL

NOT TO SCALE



EMERGENCY LIGHTING FIXTURES DETAIL

NOT TO SCALE

WSKF ARCHITECTS

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Lenexa, KS

NOTICE:
McClure Engineering Co. is not responsible or liable for any issues, claims, damages, or losses (collectively, "Losses") which arise from failure to follow these Plans, Specifications, and the engineering intent they convey, or for Losses which arise from failure to obtain and/or follow the engineers' or surveyors' guidance with respect to any alleged errors, omissions, inconsistences, ambiguities, or conflicts contained within the Plans and Specifications.

MISSOURI CERTIFICATE OF AUTHORITY NO. E-2006023253
EXPIRES: DECEMBER 31, 2022

STATE OF MISSOURI — MICHAEL D. RAAF — NUMBER PE-2005028097 — REGISTERED PROFESSIONAL ENGINEER
04/18/22
Michael D. Raaf - Engineer
MO# PE-2005028097

REVISIONS
ISSUE DATE: 4/18/2022

PROJECT INFO
210266-000

ENGINEER	DRAWN BY	CHECKED BY
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PLATTE RIDGE PARK
FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

ELECTRICAL - SCHEDULES & DETAILS

Z:\22\22.113\DRAWINGS\22113 - E201.DWG

DRAWING NO.
E2.01

GENERAL NOTES

1. All construction shall conform to the standards referenced in "Design Criteria".
2. The structural drawings are intended to be utilized in conjunction with other design consultant's drawings (Architectural, Civil, Mechanical, etc.). It is the responsibility of the contractor to coordinate the requirements of the drawings into their shop drawings and construction.
3. See Specifications or Notes on drawings for materials of construction.
4. Contractor shall verify all dimensions and conditions at the job site before commencing work and shall report any discrepancies to the engineer.
5. Omissions or conflicts between various elements of the drawings, notes, and details shall be brought to the attention of the engineer and resolved before proceeding with the work.
6. Do not use scaled dimensions; use written dimensions or, where no dimension is provided, consult the engineer for clarification before proceeding with the work.
7. Details and keynotes shown shall be incorporated into the project at all appropriate locations whether or not the detail is specifically referenced.
8. Refer to architectural, mechanical, electrical, and civil drawings for location and size of block outs, inserts, openings, curbs, bases & pads, and dimensions not shown on the structural drawings.
9. Refer to the architectural drawings for the following: size and location of doors and window openings, dimensions not sown on structural drawings, exterior wall assemblies, and floor, wall, and roof finishes.
10. Construction sequence and methods:
    - A. Construction Loads have not been considered and the contractor must brace all elements of the structure during construction.
    - B. The structural drawings are intended for the structure to act as a whole once construction is complete. It is the responsibility of the contractor to ensure safety and stability during construction as a result of means and sequence by providing shoring, bracing, etc. as required.
      - a. Temporary bracing shall remain until positive connection is made to shear walls (with roof diaphragm). This is a means and methods item.
    - C. The contractor shall consider the effects of thermal movements due to hor or cold weather or extreme temperature variations.
11. Required Submittals:
    - A. Submittals must be returned to contractor marked "Approved" or "Approved as Noted" prior to proceeding with work.
    - B. Allow (3) weeks for review of shop drawings. Time required for more than (2) reviews of a submittal will be billed hourly.
    - C. Shop drawings should be original drawings. Any submission incorporating any portion or reproduction of the contract documents will not be reviewed.
    - D. Submittals/shop drawings are required for the following:
      - a. Concrete
      - b. Concrete Reinforcing
      - c. Concrete Anchor Bolts
      - d. Masonry Wall Materials
      - e. Masonry Reinforcing

DESIGN CRITERIA

1. Design Codes:
   - A. International Building Code: IBC 2018
   - B. Minimum Design Loads for Buildings and Other Structures: ASCE 7-16
2. Design Loads:

Dead Loads:
- Roof Dead Load = 20 psf

Live Loads:
- Slab on Grade = 100 psf (non-reducable)
- Sidewalks = 250 psf
- Roof Live Load = 20 psf

Roof Snow Load:
- Ground Snow Load (P_g) = 20 psf
- Roof Snow Load (P_f) = 20 psf
- Snow Exposure Factor (C_e) = 1.0
- Snow Load Importance Factor (I) = 1.0
- Roof Thermal Factor (C_t) = 1.2

Wind Load:
- Ultimate Wind Speed, V_{ult} = 115 mph
- Nominal Wind Speed, V = 90 mph
- Risk Category = II
- Wind Exposure = C
- Design Elevation = 950 ft

Earthquake Load:
- Seismic Importance Factor = 1.0
- Seismic Occupancy Category = II
- S_s = 0.091g S_1 = 0.065g
- Soil Site Class: = D
- S_{DS} = 0.097 S_{D1} = 0.104
- Seismic Design Category = B

3. Soil Properties:
   - Soil properties are based on Table 1806.2, Presumptive Load-Bearing Values from the 2018 IBC
   - Allowable Soil Bearing Pressure = 1,500 psf

CONCRETE

1. Reinforced concrete shall have the following minimum 28 day compressive strengths:
   - A. Slab on grade, unless noted otherwise (UNO) — 4000 psi, Normal Weight
   - B. Foundations and Grade Beams — 4000 psi, Normal Weight
2. All concrete exposed to weather shall have 6% (±1%) air entrainment.
3. Submit mix designs for all concrete mixes prior to placement. All submittals shall include the following:
   - A. Batch quantities including admixture dosage rates
   - B. Strength test results for trial mixes
   - C. Cured unit weight results (for Light Weight concrete mixes only)
   - D. Aggregate source(s) and gradation(s)
   - E. Product data for cement, fly ash, and other cementitious materials
   - F. Product data for all admixtures
4. Provide protection for reinforcing bars as follows:
   - A. Cast-in-place concrete:
     - Concrete cast against and permanently exposed to earth — 3"
     - Concrete exposed to earth and weather (formed)
       - #5 and smaller — 1-1/2"
       - #6 and larger — 2"
     - Concrete not exposed to weather and not in contact with ground:
       - Slabs and walls — 3/4"
       - Beams and columns — 1-1/2"
5. Interface of all slab and beam constuction joints shall be roughened with 1/4" amplitude. Surface of construction joints shall be clean and free of laitance. Immediately before new concrete is placed, construction joints shall be wetted and standing water removed.
6. Sleeves and openings in slabs not shown on structural drawing or outside the parameters of tyical sleeve details are not permitted, unless approved by the Structural Engineer.
7. Conduit and pipes embedded in slabs, walls, or grade beams shall be no larger in outside dimension than 1/3 the overall member thickness, and shall be placed no closer than 3 diameters or widths on center.
8. Conduits and pipes shall not be permitted in concrete pilasters or columns.
9. Slab on Grade
   - A. Slab shall be constructed as shown on plans
   - B. Slab-on-grade shall be founded on 6" deep 3/4" clean aggregate base.
   - C. Povide joints at 30x "slab thickness" (±) in both directions and located to conform to bay spacing wherever possible (at column centerlines, half bays, third bays, etc.) Submit control joint layout to Architect for any exposed concrete surfaces.
   - D. Saw cut control joints shall be done late enought to prevent raveling of the cut edges and early enough to prevent cracking of the slab ahead of the saw blade.
   - E. Concrete slab to be cured according to ACI Standards. Concrete slab cure to be compatible with any sealer, grout, or adhesive that may be used on the floor later.
   - F. At floor drains, locally slope floor towards drain. See Architectural and Plumbing drawings for drain locations.

REINFORCING FOR CONCRETE

1. General
   - A. All reinforcing steel to be ASTM A615, Grade 60, deformed bars, unless noted otherwise.
     - a. Any reinforcing to be welded shall be ASTM A706 and welded with E80 electrodes
     - b. Alternatively, ASTM A615 reinforcing may be welded with E90 electrodes and proper preheat according to AWS D1.4
     - c. E70 electrodes are not permitted for welding rebar.
   - B. Welded wire fabric shall be ASTM A185. Welded wire fabric shall be in flat sheets.
   - C. All reinforcing bars to be detailed and placed in accordance with the ACI "Manual of Standard Practice for Detailing Reinforced Concrete Structures" specifications.
   - D. All reinforcing, including dowels, shall be securely tied and cast with the lower member. Placing reinforcing after concrete has been placed will not be permitted.
   - E. Field bending of reinforcing partially embedded in concrete will not be allowed unless specifically noted on the drawings or approved by the Structural Engineer.
   - F. All reinforcing bar shall be contact lap spliced or doweled as follows, unless noted otherwise:

TENSION DEVELOPEMENT AND SPLICE LENGTHS FOR F'_C = 4,000 PSI

	Development		Class "B" Splice		Standard 90° Hook		
	Top	Bottom	Top	Bottom	Embed	Leg Length	Bend Diam.
Bar Size	Bar	Bar	Bar	Bar			
#3	19	15	24	19	6	6	2-1/4
#4	25	19	32	25	7	8	3
#5	31	24	40	31	9	10	3-3/4

   - 1. Straight development and Class "B" splice lengths shown in above tables are based on uncoated bars assuming center-to-center bar spacing ≥3"D_b without ties or stirrups, or ≥2"D_b with ties or stirrups, and bar clear cover ≥1.0"D_b. Normal weight concrete as well as no transverse reinforcing are assumed.
   - 2. Standard 90° hook embedment lenths are based on bar side cover ≥2-1/2" and bar end cover ≥2" without ties around hook.
   - 3. For special seismic considerations, refer to ACI 318 Chapter 21.
   - 4. All tension splices shall be Class "B" splices unless noted otherwise on plans.
   - G. All Welded wire fabric shall be lapped 12" or 48 wire diameters, whichever is greater.
   - H. Provide (2) #5x6'-0" diagonals at all corners of openings and re-entrant corners, unless noted otherwise.
   - I. Dowels between foundation and walls shall be installed and shall be the same grade, size, and spacing as the vertical wall reinforcing, unless noted otherwise.
   - J. Provide corner bars to match longitudinal reinforcing in all footings. Provide (2) corner bars at tee intersections.
2. Slabs and Slabs-on-grade
   - A. All slabs on grade to be reinforced with 6x6-W2.1xW2.1 welded wire fabric, unless noted otherwise.

CONCRETE MASONRY

1. All construction shall comply with applicable provisions of the following latest ACI standards:
   - A. ACI 530/ASCE 5/TMS 402 – Building Code Requirements for Masonry Structures
   - B. ACI 530.1ASCE 6/TMS 602– Specifications for Masonry Structures.
   - C. IBC Chapter 21 Masonry
2. Concrete block units shall conform to the requirements for Grade N Type 1, load-bearing normal-weight units per ASTM C-90. Use Grade S blocks below grade. All below grade block shall be solid grouted.
3. Net area compressive strength of masonry, f'_m = 2,500 psi
4. Standard units shall have nominal face dimensions of 16 x 8 inches high. The minimum compressive strength of the masonry units shall be as follows:

Net Area Compressive Strength of Masonry (f'_m)	Net Area Compressive Strength of Concrete Masonry Units (psi)	
	Type M or S mortar	Type N mortar
2,500	3,250	4,350

5. Mortar for unit masonry shall be proportioned per ASTM C270. The minimum mortar compressive strength is as follows:
   - A. Type N: 750 psi
   - B. Type S: 1,800 psi
   - C. Type M: 2,500 psi
6. Grout for unit masonry shall be proportioned per ASTM C476. The minimum grout compressive strength is the larger of 2,000 psi or f'_m. Maximum coarse aggregate size is 3/8"
7. Reinforce all CMU walls with vertical rebar full height, centered in cell as shown on the drawings. Grout reinforced cells solid.
8. All vertical cells to be filled shall have vertical alignment to maintain an unobstructed cell area not less than 2 in. x 3 in.
9. All bond beams shall be grouted solid and reinforced.
   - A. Provide bent dowels and all wall intersections – one per bond beam at corners, and two at tee intersections.
10. Provide bond beams at all walls supporting roof and floor slabs.
11. Grout three courses of CMU supporting steel. Top course shall be a bond beam.
12. Grout solid under all beams and lintels for full height of wall.
13. All masonry walls shall have ladder type horizontal joint reinforcement with two 9 gage wires spaced at 16" o.c. vertically, unless noted otherwise.
    - A. All wall intersections shall be reinforced with prefabricated tee or corner units.
14. Use low lift method of grouting. Max grout lift = 5'-0". Alternate methods of grouting may be acceptable. Submit method for approval 2 weeks in advance.
15. Masonry reinforcing lap lengths shall be as follows:

Bar Size	Masonry Strength, f'_m (psi) 2,500
#3	12"
#4	16"
#5	24"
#6	46"

    Development length is based on 2½" masonry cover for all bars. Use bar spacers to maintain cover.
16. Brace all masonry walls until floor and roof framing and metal deck are installed.
    - A. Design and installation of bracing is the responsibility of the masonry contractor.
    - B. Submit bracing plan for review.
17. When grouting is stopped for more that one (1) hour, horizontal construction joints shall be formed by stopping the pour of grout 1-1/2" below the top of the uppermost course.
18. Conduit pipes and sleeves in masonry shall not displace more than 2 percent of the net cross sectional area, and shall be placed no closer than 3 diameters or widths on center.
19. Vertical control joints in masonry shall be 3/8" wide, full height of wall at locations shown on the architectural drawings. Joints shall be spaced at a maximum of 25 ft. apart and coordinated with the architect. All horizontal joint reinforcing shall be discontinuous through the joint.
20. All doors and windows shall have headers installed per the standard masonry details on sheet S201.

WOOD FRAMING AND CONNECTIONS

1. Install rough carpentry according to the latest edition of the Wood Frame Construction Manual (ANSI/AWC WFCM).
2. Material
   - a. Sawn lumber
     - 1. Sawn lumber shall be grade stamped and visually graded with maximum 19% moisture content
     - 2. All members shall meet strength requirements in NDS "National Design Specification for Wood Construction".
     - 3. Joists, rafters, and nailers with nominal depth 8" or less shall be Southern Pine (SP) or Douglas Fir-Larch (DFL), No. 2 or better.
     - 4. Joists, rafters, and nailers with nominal depth greater than 8" shall be Southern Pine (SP) or Douglas Fir-Larch (DFL), No. 1 or better.
     - 5. Bearing and shear wall studs, and wall plates, shall be Douglas Fir-Larch (DFL), No. 2 or better.
   - b. Structural Composite Lumber
     - 1. SCL shall meet material specifications in ASTM D5456
     - 2. SCL shall include laminated veneer lumber (LVL), laminated strand lumber (LSL), oriented strand lumber (OSL) and parallel strand lumber (PSL)
     - 3. All LVL shall be stress class 2.0E-2600Fb.
     - 4. Other SCL materials shall be graded as indicated on the plans.
   - c. Structural Panels
     - 1. All plywood or oriented strand board (OSB) panels shall meet the strength requirements in Department of Commerce (DOC) PS 1 and PS 2 or ANSI/APA PRP 210.
     - 2. All structural panels (walls, floor and roof) shall meet the Structural 1 grading standard
   - d. Connectors and Fasteners
     - 1. Metal connectors and associated fasteners used for the applications indicated shall meet the following minimum standards:
       - 1. Untreated Lumber
         - a. Connectors ASTM A653 G90
         - b. Bolts and Anchor Rods ASTM F1554 Gr36
         - c. Nails and Staples ASTM F1667
       - 2. Sodium Borate (SBX) Pressure Treated Lumber
         - a. Connectors ASTM A653 G90
         - b. Bolts ASTM A307
         - c. Anchor Rods ASTM F1554 Gr 55
         - d. Nails and Staples ASTM F1667 with A153 Hot Dipped Galvanized
       - 3. All Other Pressure Treated Lumber (e.g. ACQ-C, ACQ-D, CA-B, CBA-A, ACZA)
         - a. Connectors AISI SS Type 304 or 316
         - b. Bolts ASTM A193, GrB7
         - c. Anchor Rods ASTM A193, GrB7
         - d. Nails and Staples ASTM F1667 using AISI Type 304 or 316 Stainless Steel
     - 2. Fasteners utilizing dissimilar materials are prohibited.
     - 3. Power driven fasteners shall comply with NES NER-272.
     - 4. Fastener installation whether power driven or otherwise shall be in accordance with the Building Code and the manufacturer's recommendations. In general fastener heads shall be installed nominally flush with the outer ply of the connection. Sheathing and support framing damaged by overdriven fasteners shall be removed and replaced.
     - 5. Aluminum fasteners and flashing shall not be in contact with pressure treated lumber.
3. General
   - a. All light framed wood construction shall be fastened as indicated on the plans.
   - b. All framing in direct contact with water, soil, concrete, masonry, or permanently exposed to weather shall be preservative treated lumber in accordance with the AWPA Standard U1 and M4
   - c. All wood shall be stored on site and protected from the elements to prevent warping, cupping, bowing, crooking and twisting. Use only material that is straight. All stored wood shall be held off the ground with sacrificial dunnage blocks.
   - d. All multi-ply beams, joists and headers shall be fastened together.
     - 1. Fasten sawn lumber members per schedule below.
     - 2. Fasten structural composite lumber per manufacturer's literature.
   - e. Standard cut washers shall be used under bolt heads and nuts bearing against wood, unless noted otherwise per shear wall anchorage details.
   - f. Wood joists shall bear on the full width of supporting members (stud walls, beams, nailers, etc.) unless noted otherwise.
   - g. Subject to compliance with the project requirements, wood connectors, joist hangers, post caps and bases, holdowns, and related hardware shall be manufactured by Simpson Strong-Tie Company, Inc. San Leandro, CA.
     - 1. Contractor shall follow the manufacturer's latest recommendations for installation of connectors.
     - 2. Other manufacturers may be acceptable. Submit substitution request demonstrating that the proposed hardware has the same or greater capacity for each connection. Allow two weeks for review.
4. Wood Roof Trusses
   - a. Provide wood trusses capable of withstanding the design loads within the limits and under the conditions indicated. Truss design shall be in accordance with the Building Code and TPI-1 Nation Design Standard for Metal Plate Connected Wood Truss Construction.
   - b. Wood trusses shall be of sawn lumber with 2x nominal thickness.
   - c. In addition to the loads indicated, wood trusses shall be designed for all applicable wind, seismic, and snow (including drift) loads required by Building Code and noted in plan. Truss design and shop drawing preparation shall be supervised by a registered professional engineer licensed in the state where the project is located.
   - d. Submittals shall be signed and sealed and include comprehensive truss layout plans, design calculations that indicate species and grades of lumber, design stresses, size and type of connector plates used.
   - e. Fabricator shall determine truss diagonal locations. Truss configurations shown on drawings are diagrammatic only. Bearing points shall coincide with intersections of diagonals and chords.
   - f. Truss member design shall consider unbalanced snow load with full dead load, as well as, full dead and snow load.
   - g. Roof trusses shall be designed for the following:
     - 1. Dead load = 20 psf (10 psf top chord, 10 psf bottom chord)
     - 2. Roof Live load = 20 psf, on the top chord (horizontal projection)
     - 3. Roof Snow Load Balanced = 17 psf
     - 4. Roof Snow Load Unbalanced = 5 psf windward, 32 psf leeward from ridge to 5'-0", 17 psf leeward from 5'-0" to eave
     - 5. Wind uplift = - 21 psf (normal to roof slope)
     - 6. End / Gable Wind Load = ± 19 psf
   - h. The maximum allowable deflection shall be:
     - 1. Roof Trusses: Total Load: L/240, Roof Live or Snow Load: L/360
   - i. The manufacturer shall provide all open web trusses and accessories as shown on the structural and architectural drawings and as required for a complete project.
   - j. All truss to truss connections and truss to supporting member connections shall be designed and detailed by the truss supplier and the size and type of connectors included in the shop drawing submittal. Coordinate size, species and grade of supporting chord and web members with the truss hanger selected.
   - k. All temporary and permanent bracing shall be in accordance with the TPI standards for bracing. The bracing shall be furnished and installed by the Contractor. Do not use ceilings as uplift bracing at truss bottom chord.
   - l. Girder trusses shown on drawings shall be designed to carry concentrated reactions from supported members.
   - m. Wood trusses shall be handled and erected in accordance with TPI HIB-91. Trusses shall be unloaded and stored in bundles in an upright position out of contact with the ground until ready for installation.
   - n. Any damage to the trusses shall be brought to the immediate attention of the Structural Engineer and truss supplier. Field repair and modification of trusses shall not be made with prior written approval from the supplier, except for nominal trimming to correct length where such trimming will not impair the load carrying capacity of the truss.

WSKF ARCHITECTS

pkmr ENGINEERS
PEARSON KENT MCKINLEY RAAF ENGINEERS LLC
13300 W 98TH STREET LENEXA, KS 66215
913.492.2400 WWW.PKMRENG.COM
MO State Certificate of Authority #E-2002020886

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North Liberty,IA | Sioux City,IA

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MISSOURI CERTIFICATE OF AUTHORITY
NO. E-2006023253
EXPIRES: DECEMBER 31, 2022

STATE OF MISSOURI
KENNETH LEE DEYOUNG
4/18/22
NUMBER PE-2006019646
PROFESSIONAL ENGINEER

Kenneth L. Deyoung
MO PE-2006019646
12/31/2022

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MISSOURI.

No.	Description	Date
	Issued For Permit	04/18/2022

PROJECT NUMBER	SET ISSUE DATE
2022000005	4/18/2022

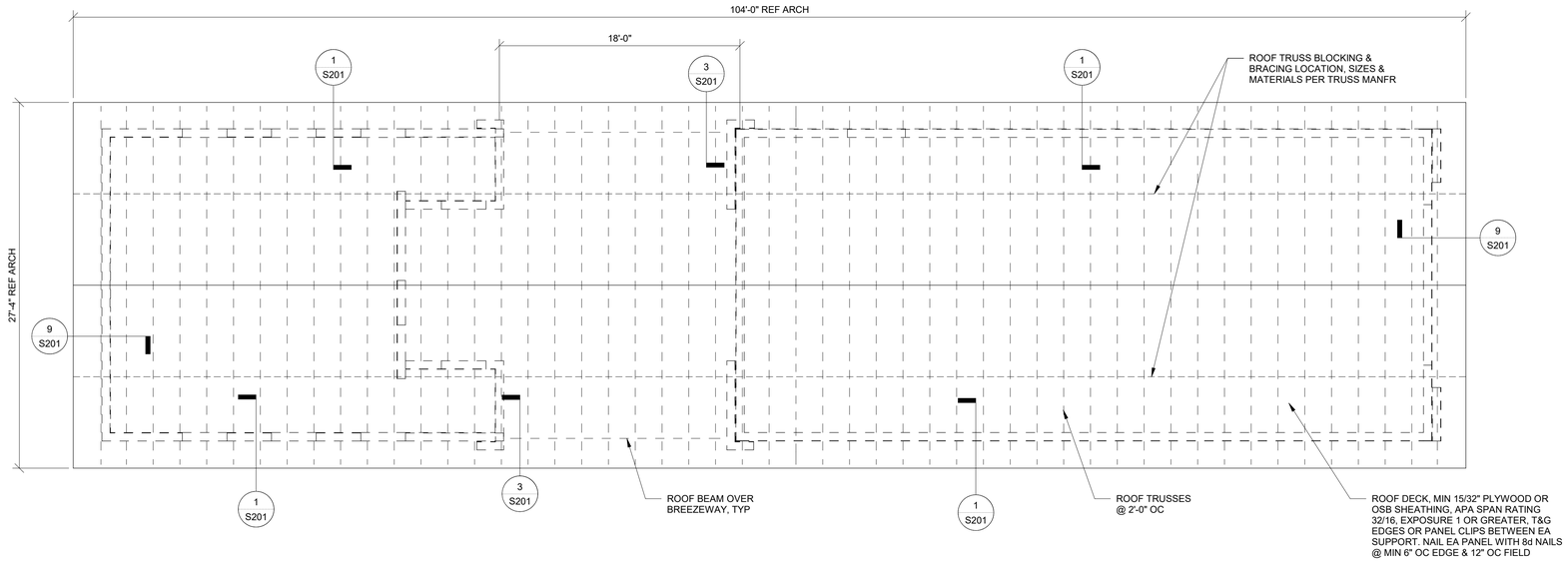
ENGINEER	DRAWN BY	CHECKED BY
JAV	JAV	KLD

PLATTE RIDGE PARK
FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

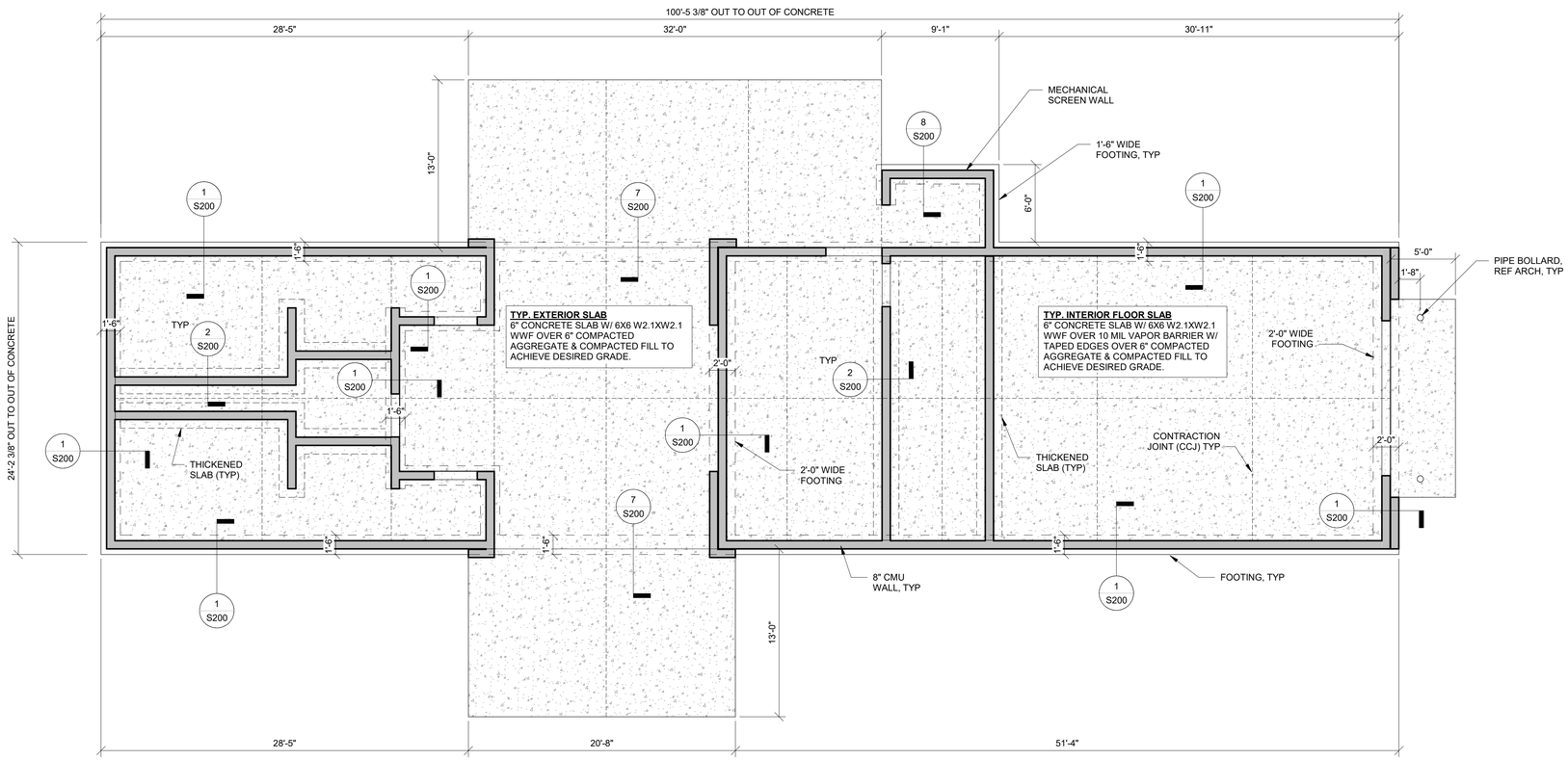
GENERAL NOTES

A:\2022000005-00006-Drawings\Structural\2022000005 Platte Ridge Park Structural.rvt

DRAWING NO.
S001



2 / S100 ROOF FRAMING PLAN
3/16" = 1'-0"



1 / S100 FOUNDATION PLAN
3/16" = 1'-0"

WSKF ARCHITECTS

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PROFESSIONAL ENGINEER

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No.	Description	Date
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PROJECT NUMBER 2022000005
SET ISSUE DATE 4/18/2022
ENGINEER JAV
DRAWN BY JAV
CHECKED BY KLD

PLATTE RIDGE PARK
FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

FOUNDATION AND ROOF FRAMING PLANS

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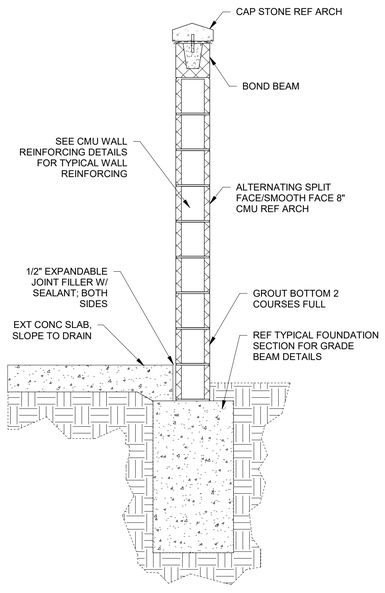
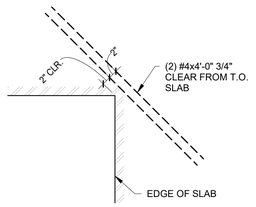
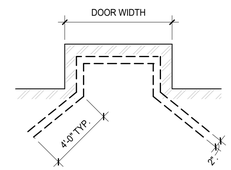
DRAWING NO.
S100



8 S200 SCREEN WALL SECTION
3/4" = 1'-0"

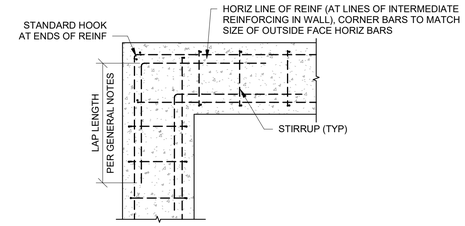


RE-ENTRANT CORNERS

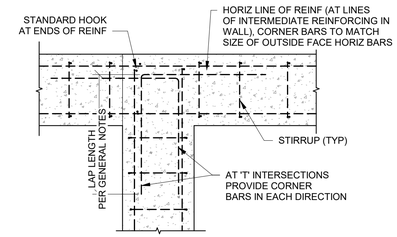


THRESHOLDS

6 S200 ADDITIONAL REINFORCING IN SLABS
3/4" = 1'-0"

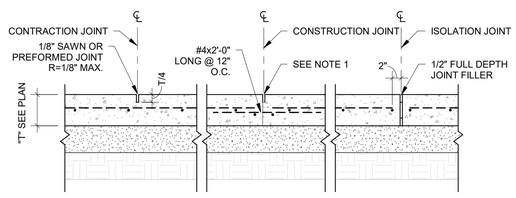


EXTERIOR CORNER



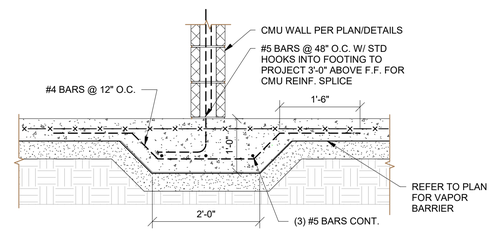
INTERSECTION

30 S200 GRADE BEAM INTERSECTION
1/2" = 1'-0"

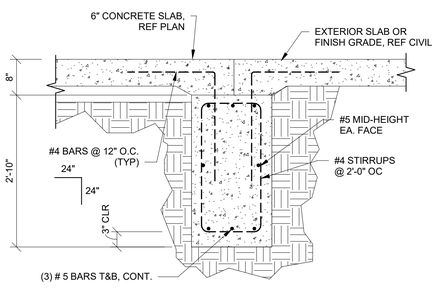


NOTES:
1. LOCATE CONSTRUCTION JOINTS AT SAW JOINT LOCATIONS IF SHOWN ON PLAN. LOCATE AT WALLS AND COLUMN LINES WHERE POSSIBLE.
2. MAXIMUM SPACING BETWEEN SAW JOINTS = 15'-0" FOR 6" SLABS & 10'-0" FOR 4" SLABS.
3. CONTINUE SLAB ON GRADE REINFORCING, UNO, PROVIDE TENSION LAP SPLICE PER NOTES.
4. DO NOT PLACE DOWELS WITH IN 12" OF A SLAB CORNER.

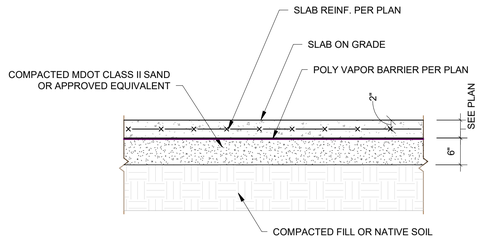
5 S200 SLAB JOINTS
3/4" = 1'-0"



2 S200 THICKENED SLAB
3/4" = 1'-0"

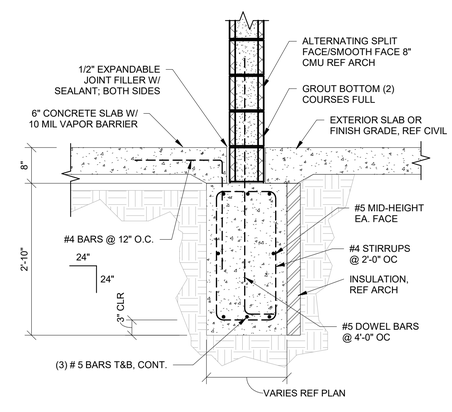


7 S200 FOUNDATION SECTION @ BREEZEWAY
3/4" = 1'-0"



NOTES:
1. PROVIDE CONTINUOUS PROTECTION AGAINST WATER INFILTRATION PRIOR TO INSTALLATION OF VAPOR BARRIER & POROUS SUB BASE. MAINTAIN VAPOR BARRIER & SUB BASE IN DRY CONDITION UNTIL BUILDING IS OCCUPIED.

4 S200 TYPICAL SLAB DETAIL
3/4" = 1'-0"



1 S200 TYPICAL FOUNDATION SECTION
3/4" = 1'-0"

WSKF ARCHITECTS

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North Liberty,IA | Sioux City,IA
Macon,MO | Columbia,MO
North Kansas City,MO
Lenexa, KS

NOTICE:
McClure Engineering Co. is not responsible or liable for any issues, claims, damages, or losses (collectively, "Losses") which arise from failure to follow these Plans, Specifications, and the engineering intent they convey, or for Losses which arise from failure to obtain and/or follow the engineers' or surveyors' guidance with respect to any alleged errors, omissions, inconsistencies, ambiguities, or conflicts contained within the Plans or Specifications.

MISSOURI CERTIFICATE OF AUTHORITY
NO. E-2006023253
EXPIRES: DECEMBER 31, 2022

STATE OF MISSOURI
KENNETH LEE DEYOUNG
4/18/22
NUMBER PE-2006019646
PROFESSIONAL ENGINEER

Kenneth L. Deyoung
MO PE-2006019646
12/31/2022

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MISSOURI.

No.	Description	Date
	Issued For Permit	04/18/2022

PROJECT NUMBER	SET ISSUE DATE
2022000005	4/18/2022

ENGINEER	DRAWN BY	CHECKED BY
JAV	JAV	KLD

PLATTE RIDGE PARK
FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

FOUNDATION SECTIONS AND DETAILS

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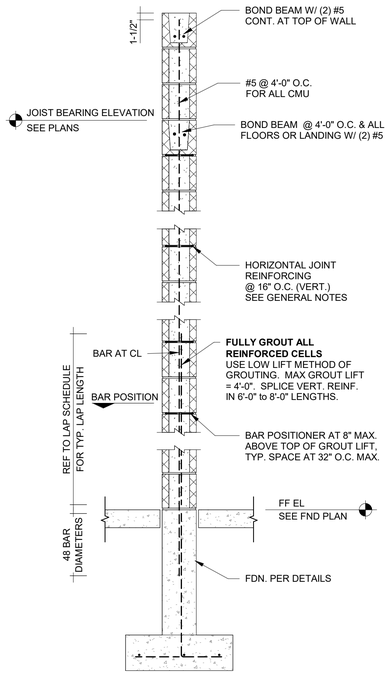
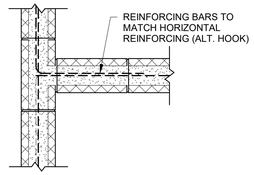
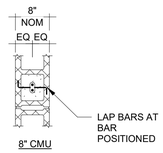
DRAWING NO.
S200

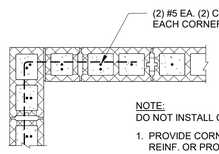




INTERSECTION DETAIL



BAR POSITION

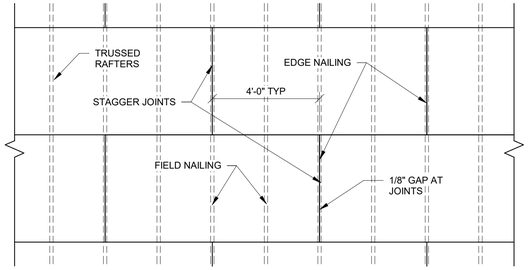


NOTE:
DO NOT INSTALL CONTROL JOINTS IN CMU

1. PROVIDE CORNER BARS TO MATCH BOND BEAM REINF. OR PROVIDE 90 DEGREE HOOK.
2. EXTEND HORIZ. JOINT REINF. SO THAT IT LAPS AT THE CORNER.
3. PROVIDE VERT. WALL REINF. IN THE CORNER CELL. (2) #5 IN 8" CMU.
4. LAP BARS PER GEN. NOTES.

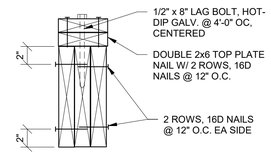
CORNER DETAIL

10 S201 CMU WALL REINFORCING
3/4" = 1'-0"

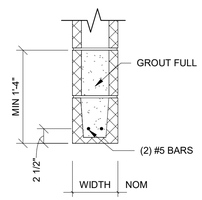


NOTE: SEE SHEATHING TYPE & NAILING SCHEDULE ON PLAN SHEETS AND SPECIFICATIONS

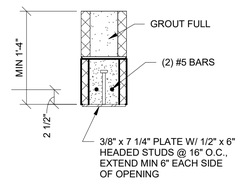
8 S201 DIAPHRAGM NAILING
3/8" = 1'-0"



7 S201 3 PLY BUILT-UP BEAM DETAIL
1 1/2" = 1'-0"

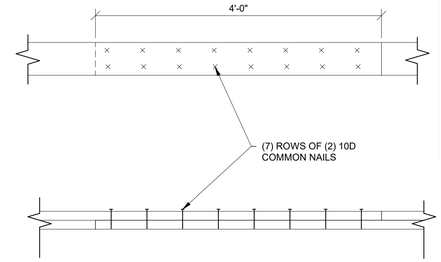


TYPICAL 8" CMU LINTEL DETAIL
(MAX 9'-0" CLEAR SPAN)

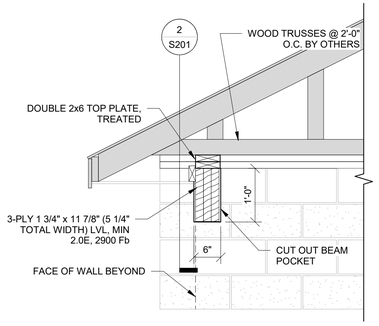


OH DOOR LINTEL (MAX 12'-0" CLEAR SPAN)

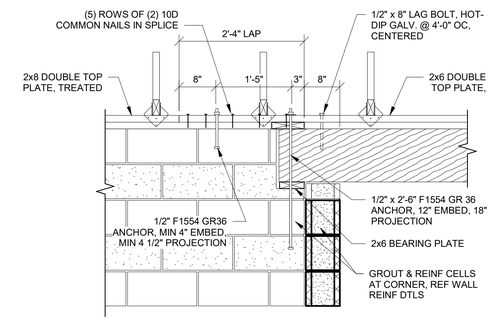
6 S201 CMU LINTEL DETAILS
1" = 1'-0"



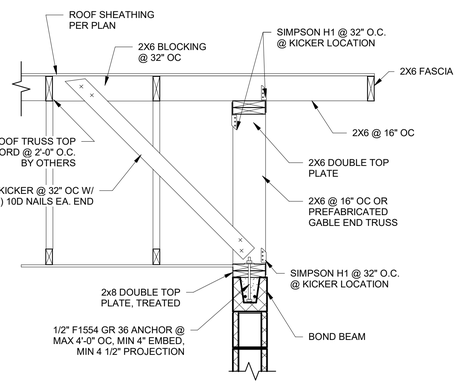
4 S201 TOP PLATE SPLICE
1" = 1'-0"



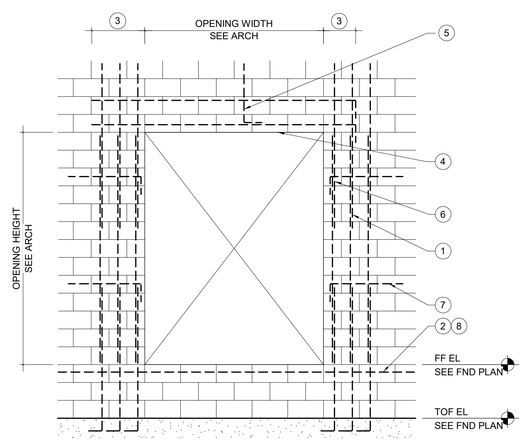
3 S201 BREEZEWAY ROOF BEAM SECTION
3/4" = 1'-0"

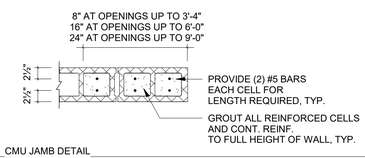


2 S201 BREEZEWAY ROOF BEAM SIDE VIEW
3/4" = 1'-0"



9 S201 GABLE END WALL SECTION
3/4" = 1'-0"

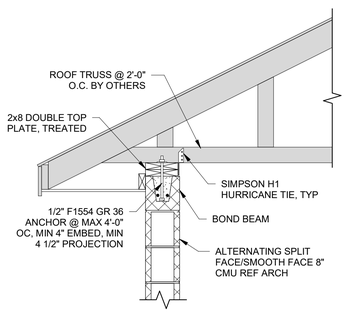




CMU JAMB DETAIL

NOTES:
1. SPLICES IN VERT REINF. SEE GENERAL NOTES
2. BOND BEAM. SEE CMU GENERAL NOTES
3. EXTEND GROUTED LINTEL A MINIMUM OF 2'-0" BEYOND FACE OF OPENING EACH SIDE FOR STRAIGHT LINTEL REINF AND 1'-4" FOR LINTEL REINF WITH STANDARD ACI HOOK.
4. USE LINTEL BLOCKS ONLY FOR BOTTOM COURSE OF LINTEL BEAMS OVER OPENING.
5. CONTINUE VERT WALL REINF OVER OPENING. ANCHOR VERT REINF INTO LINTEL BEAM WITH STANDARD ACI HOOK.
6. ALL VERT BARS AT CMU JAMB TO EXTEND FULL HEIGHT OF WALL EACH LEVEL.
7. WHERE HORIZONTAL REIFORCING IS TERMINATED BY OPENING OR CONTROL JOINT, PROVIDE STANDARD ACI HOOK WITH VERTICAL WALL REINFORCING IN THE END CELL.
8. PROVIDE 2-#5 AT BOTTOM OF ALL OPENINGS ABOVE FINISH FLOOR. EXTEND MINIMUM OF2'-0" BEYOND FACE OF OPENING EACH SIDE FOR STRAIGHT REINFORCEMENT AND 1'-4" FOR HOOKED REINFORCEMENT WITH STANDARD ACI HOOK.
9. PROVIDE (2) #5 BAR IN BOND BEAM AT SILL LOCATIONS.
10. ALL LINTELS 16" DEEP W/ (2) #5 BARS U.N.O.

5 S201 TYP. MASONRY OPENING
3/4" = 1'-0"



1 S201 TOP OF WALL/TRUSS BEARING
3/4" = 1'-0"

WSKF ARCHITECTS

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Cedar Rapids,IA | Fort Dodge,IA
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MISSOURI CERTIFICATE OF AUTHORITY
NO. E-2006023253
EXPIRES: DECEMBER 31, 2022

STATE OF MISSOURI
KENNETH LEE DEYOUNG
4/18/22
NUMBER
PE-2006019646
PROFESSIONAL ENGINEER

Kenneth L. Deyoung
MO PE-2006019646
12/31/2022

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JAV	JAV	KLD

PLATTE RIDGE PARK
FOOTBALL COMPLEX IMPROVEMENTS
17130 HIGHWAY 371, PLATTE CITY, MO 64079

SECTIONS AND DETAILS

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