LHS Baseball & Softball Upgrades Liberty Public Schools 53 **200 Blue Jay Drive** Liberty, MO 64068 **CONSTRUCTION DOCUMET SET**

INDEX OF DRAWINGS

GENERAL G000 COVER SHEET

DEMOLITION - CIVIL DC101 CIVIL DEMOLITION PLAN

DEMOLITION - MECHANICAL/ELECTRICAL DME201 DEMOLITION ELEC. - SITE PLAN

	CIVIL	
	CIVIL C100	CIVIL INFORMATION SHEET
	C100	EXISTING CONDITIONS PLAN
	C101 C102	OVERALL UTILITY
Н	C103	
п	C104	UTILITY PLAN (MULTIPURPOSE)
	C105	UTILITY PLAN (SOFTBALL)
	C106	
	C107	PAVING PLAN (BASEBALL)
	C108	PAVING PLAN (MULTIPURPOSE)
C	C109	PAVING PLAN (SOFTBALL)
G	C110	OVERALL GRADING PLAN
	C111	GRADING PLAN (BASEBALL)
	C112	GRADING PLAN (MULTIPURPOSE)
	C113	GRADING PLAN (SOFTBALL)
	C114	EROSION CONTROL PLAN
F	C200	UTILITY DETAILS
1	C201	PAVING DETAILS
	C202	EROSION CONTROL DETAILS
	ARCHITE	ECTURAL SITE
	AS101	ARCHITECTURAL SITE PLAN - OVERALL
Е	AS111	SITE PLAN - BASEBALL FIELD
-	AS112	SITE PLAN - MULTI-PUROPOSE FIELD
	AS113	SITE PLAN - SOFTBALL
	AS681	SCHEDULES AND MANUFACTURER'S FOOTING DETAILS
	AS681	SCHEDULES AND MANUFACTURER'S FOOTING DETAILS
	AS681 STRUCT	
D		
D	STRUCT	URAL
D	STRUCT S001	URAL GENERAL NOTES, LEGENDS, & ABBREVIATIONS
D	STRUCT S001 S002	URAL GENERAL NOTES, LEGENDS, & ABBREVIATIONS SPECIAL INSPECTIONS
D	STRUCT S001 S002 S101	URAL GENERAL NOTES, LEGENDS, & ABBREVIATIONS SPECIAL INSPECTIONS FOUNDATION PLAN - OVERALL
D	STRUCT S001 S002 S101 S310	URAL GENERAL NOTES, LEGENDS, & ABBREVIATIONS SPECIAL INSPECTIONS FOUNDATION PLAN - OVERALL WALL SECTIONS
D	STRUCT S001 S002 S101 S310 S311	URAL GENERAL NOTES, LEGENDS, & ABBREVIATIONS SPECIAL INSPECTIONS FOUNDATION PLAN - OVERALL WALL SECTIONS WALL SECTIONS
	STRUCT S001 S002 S101 S310 S311 S400	URAL GENERAL NOTES, LEGENDS, & ABBREVIATIONS SPECIAL INSPECTIONS FOUNDATION PLAN - OVERALL WALL SECTIONS WALL SECTIONS ENLARGED FOUNDATION & ROOF FRAMING PLANS
	STRUCT S001 S002 S101 S310 S311 S400 S401	URAL GENERAL NOTES, LEGENDS, & ABBREVIATIONS SPECIAL INSPECTIONS FOUNDATION PLAN - OVERALL WALL SECTIONS WALL SECTIONS ENLARGED FOUNDATION & ROOF FRAMING PLANS ENLARGED FOUNDATION & ROOF FRAMING PLANS
	STRUCT S001 S002 S101 S310 S311 S400 S401 S530	URAL GENERAL NOTES, LEGENDS, & ABBREVIATIONS SPECIAL INSPECTIONS FOUNDATION PLAN - OVERALL WALL SECTIONS WALL SECTIONS ENLARGED FOUNDATION & ROOF FRAMING PLANS ENLARGED FOUNDATION & ROOF FRAMING PLANS TYPICAL CONCRETE DETAILS
	STRUCT S001 S002 S101 S310 S311 S400 S401 S530 S540	URAL GENERAL NOTES, LEGENDS, & ABBREVIATIONS SPECIAL INSPECTIONS FOUNDATION PLAN - OVERALL WALL SECTIONS WALL SECTIONS ENLARGED FOUNDATION & ROOF FRAMING PLANS ENLARGED FOUNDATION & ROOF FRAMING PLANS TYPICAL CONCRETE DETAILS TYPICAL MASONRY DETAILS
	STRUCT S001 S002 S101 S310 S311 S400 S401 S530 S540 S541	URAL GENERAL NOTES, LEGENDS, & ABBREVIATIONS SPECIAL INSPECTIONS FOUNDATION PLAN - OVERALL WALL SECTIONS WALL SECTIONS ENLARGED FOUNDATION & ROOF FRAMING PLANS ENLARGED FOUNDATION & ROOF FRAMING PLANS TYPICAL CONCRETE DETAILS TYPICAL MASONRY DETAILS TYPICAL MASONRY DETAILS
	STRUCT S001 S002 S101 S310 S311 S400 S401 S530 S540 S541 S560	URAL GENERAL NOTES, LEGENDS, & ABBREVIATIONS SPECIAL INSPECTIONS FOUNDATION PLAN - OVERALL WALL SECTIONS WALL SECTIONS ENLARGED FOUNDATION & ROOF FRAMING PLANS ENLARGED FOUNDATION & ROOF FRAMING PLANS TYPICAL CONCRETE DETAILS TYPICAL MASONRY DETAILS TYPICAL MASONRY DETAILS
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SCOPE OF WORK - SUMMARY

THE SCOPE OF THIS PROJECT IS TO CONVERT EXISTING BASEBALL, SOFTBALL AND MULTI-PURPOSE PLAYING FIELDS FROM NATURAL GRASS TO SYNTHETIC TURF. THE MULTI-PURPOSE FILE SHALL ONLY CONVERT THE INFIELD TO SYNTHETIC TURF OUTFIELD SHALL BE REGRADED AND BE REPLANTED AS NATURAL GRASS. RELATED TO THE CONVERSIO WILL BE NEW PERIMETER FENCING AND BACKSTOP NETTING.

DUGOUT STRUCTURES AT SOFTBALL FIELD AND MULTIPURPOSE FIELD SHALL BE DEMOLISHED. NEW DUGOUT STRUCTURES WILL BE CONSTRUCTED AT THE SOFTBALL FIELD AND REPRESENT THE ONLY VERTICAL CONSTRUCTION TO TAKE PLACE ON THIS SITE. PRE-MANUFACTURED DUGOUT UNITS WILL BE PLACED AT THE MULTI-PURPOSE FIELD. THERE ARE A FEW VERTICAL ELEMENTS (POLES) WHICH WILL BE SET AS PART OF THIS WORK.

NO SPECTATOR SEATING CAPACITY WILL BE AFFECTED AS PART OF THIS WORK.

ALTERNATES

ALTERNATE No. 1 (23023.00 LHS) - ADD COVERED SCORER'S BOX AT SOUTH END OF HOME DUGOUT ALTERNATE No. 2 (23047.00 LNHS) - RETROFIT SCORER'S BOX INTO VISITING BASEBALL AND SOFTBALL DUGOUT ALTERNATE No. 3 (23047.00 LNHS) - CONVERT MULTI-PURPOSE FIELD'S INFIELD TO SYNTHETIC TURF AND INSTALL BACKSTOP NETTING AND ASSOCIATED FOOTINGS ALTERNATE No. 4 (23047.00 LNHS) - ADD CHAMPIONWALL AND ASSOCIATED FOOTINGS AT BASEBALL FIELD IN LIEU OF 8'-0" BLACK PVC FENCE ALTERNATE No. 5 (23023.00 LHS) - CONVERT MULTI-PURPOSE FIELD'S INFIELD TO SYNTHETIC TURF AND INSTALL BACKSTOP NETTING AND ASSOCIATED FOOTINGS

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VICINITY MAP



DESIGN TEAM

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CONSTRUCTION MANAGER:

Newkirk Novak 11200 W 79th Street Lenexa, KS 66214 CONTACT: Brandon Stanley PHONE: 913.312.9535

CIVIL ENGINEER:

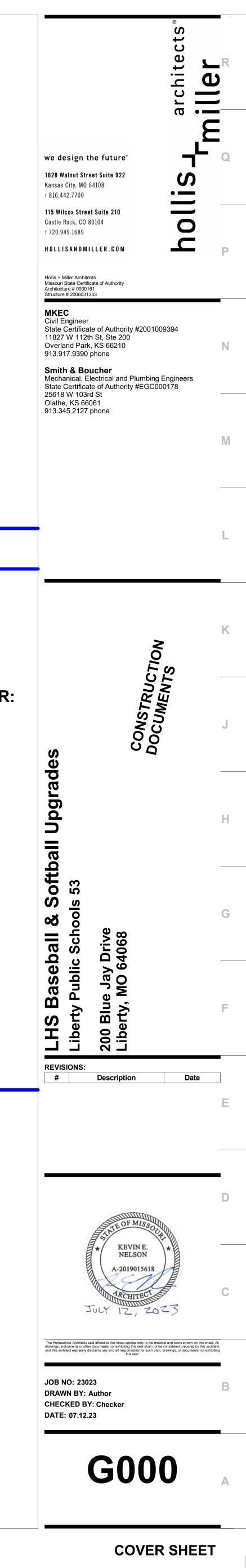
MKEC 11827 W 112th St, Ste 200 Overland Park, KS 66210 CONTACT: Braden Taylor PHONE: 913.317.9390

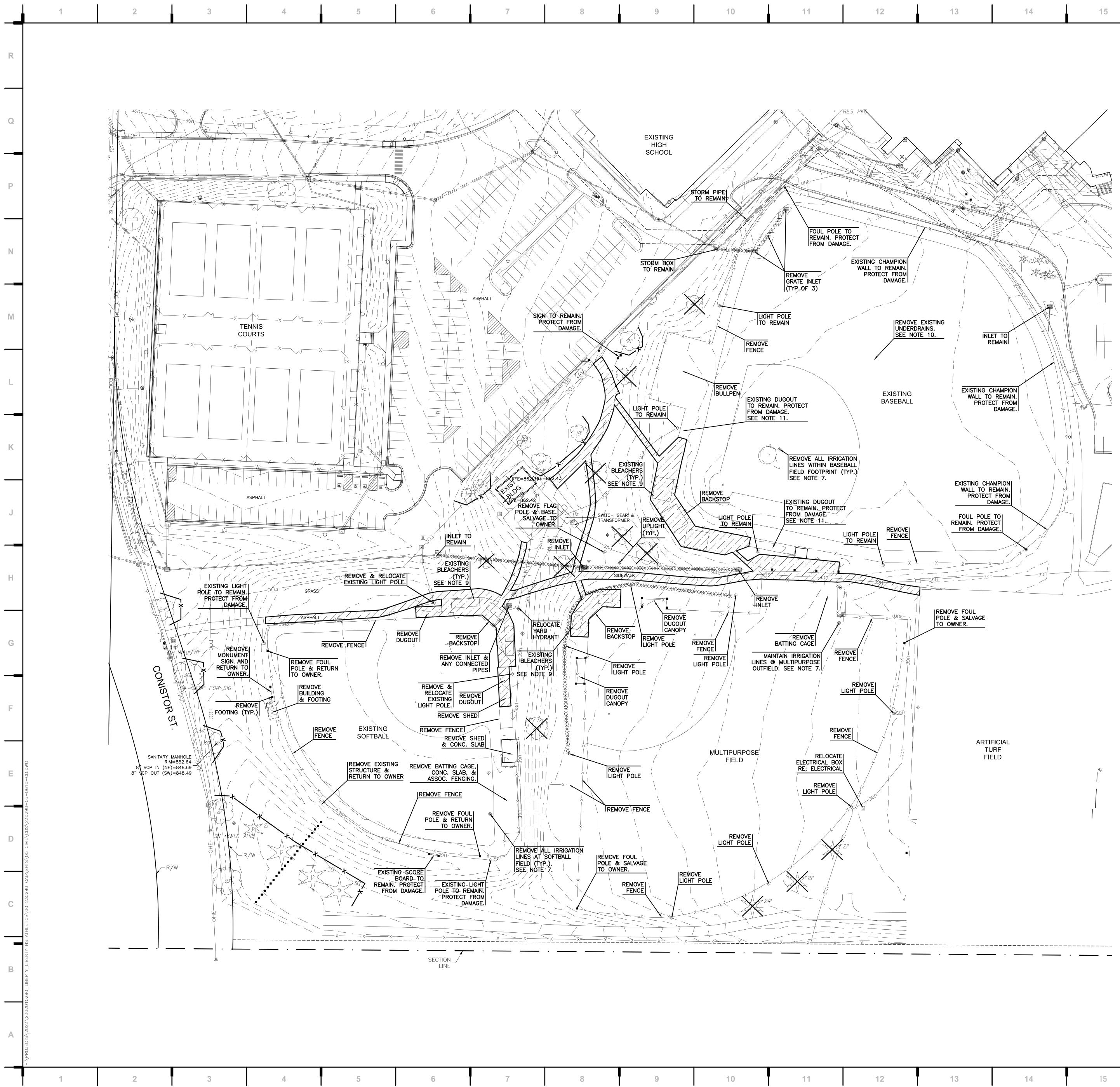
STRUCTURAL ENGINEER:

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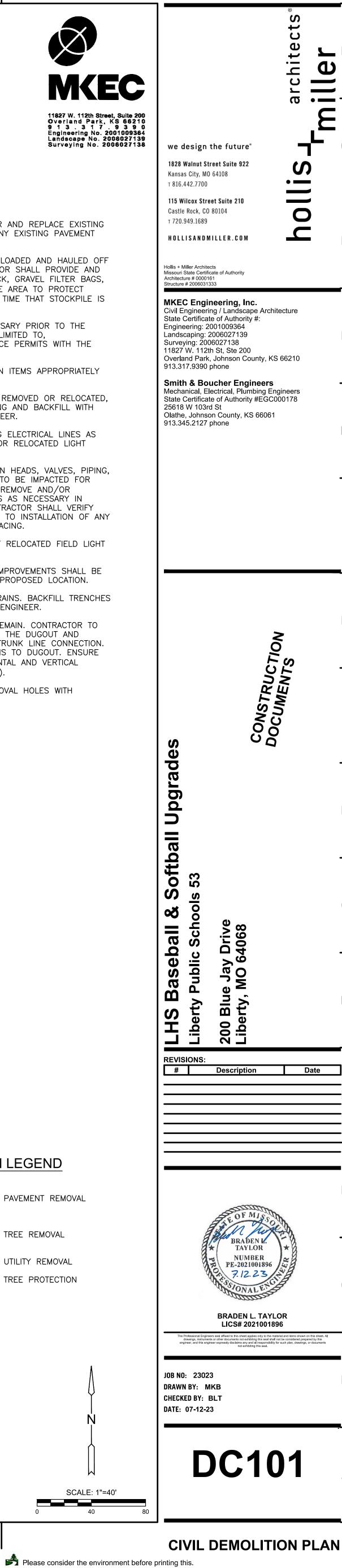
MECH/ELECT ENGINEER:

Smith & Boucher 25618 W 103rd St Olathe, KS 66061 CONTACT: Ryan Diediker PHONE: 913.345.2127





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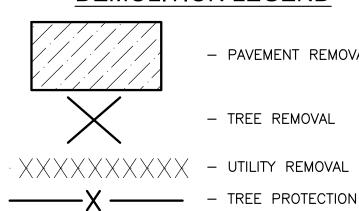
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DEMOLITION NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR AND REPLACE EXISTING CONCRETE SIDEWALKS, CURB & GUTTER, AND ANY EXISTING PAVEMENT DAMAGED DURING CONSTRUCTION.
- EXCAVATED MATERIAL THAT IS NOT IMMEDIATELY LOADED AND HAULED OFF SITE SHALL BE STOCKPILED ON SITE. CONTRACTOR SHALL PROVIDE AND MAINTAIN THE APPROPRIATE BMP (COMPOST SOCK, GRAVEL FILTER BAGS, WADDLES, SILT FENCE, ETC.) AROUND STOCKPILE AREA TO PROTECT ADJACENT INLETS OR AREAS, ETC., UNTIL SUCH TIME THAT STOCKPILE IS REMOVED.
- CONTRACTOR SHALL OBTAIN ALL PERMITS NECESSARY PRIOR TO THE START OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO, RIGHT-OF-WAY, HAULING, AND LAND DISTURBANCE PERMITS WITH THE APPROPRIATE LOCAL JURISDICTION.
- CONTRACTOR SHALL DISPOSE OF ALL DEMOLITION ITEMS APPROPRIATELY PER LOCAL AND STATE REQUIREMENTS.
- 5. ALL LIGHT POLES NOTED ON THIS PLAN TO BE REMOVED OR RELOCATED, CONTRACTOR SHALL REMOVE LIGHT POLE FOOTING AND BACKFILL WITH COMPACTED BACKFILL PER GEOTECHNICAL ENGINEER.
- 6. CONTRACTOR TO RELOCATE AND LOWER EXISTING ELECTRICAL LINES AS NECESSARY TO MAINTAIN SERVICE TO EXISTING OR RELOCATED LIGHT POLES.
- 7. CONTRACTOR TO LOCATE ALL EXISTING IRRIGATION HEADS, VALVES, PIPING, BOXES, ETC. IDENTIFY IRRIGATION COMPONENTS TO BE IMPACTED FOR PROPOSED IMPROVEMENTS. CONTRACTOR SHALL REMOVE AND/OR RELOCATE ALL EXISTING IRRIGATION COMPONENTS AS NECESSARY IN CONFLICT WITH PROPOSED IMPROVEMENTS. CONTRACTOR SHALL VERIFY INSTALL AND SYSTEM IN WORKING ORDER PRIOR TO INSTALLATION OF ANY PROPOSED PAVEMENT OR ARTIFICIAL TURF SURFACING.
- 8. SEE ELECTRICAL PLANS FOR FINAL LOCATION OF RELOCATED FIELD LIGHT POLES.
- 9. EXISTING BLEACHERS IMPACTED BY PROPOSED IMPROVEMENTS SHALL BE SALVAGED AND RETURNED TO THE OWNER FOR PROPOSED LOCATION.
- 10. REMOVE ALL EXISTING BASEBALL FIELD UNDERDRAINS. BACKFILL TRENCHES WITH COMPACTED BACKFILL PER GEOTECHNICAL ENGINEER.
- 11. EXISTING DRAINS IN BOTTOM OF DUGOUTS TO REMAIN. CONTRACTOR TO LOCATE STORM PIPE FROM DRAIN JUST OUTSIDE THE DUGOUT AND DEMOLISH PIPE FROM DUGOUT TO THE STORM TRUNK LINE CONNECTION. SEE UTILITY PLAN FOR NEW STORM CONNECTIONS TO DUGOUT. ENSURE REMAINING PIPE UNDER DUGOUT (BOTH HORIZONTAL AND VERTICAL PORTIONS) ARE FREE FROM DEBRIS AND CLOGS).
- 12. BACKFILL ALL FENCE AND BACKSTOP POLE REMOVAL HOLES WITH COMPACTED FILL PER GEOTECHNICAL ENGINEER.



DEMOLITION LEGEND

- PAVEMENT REMOVAL
- TREE REMOVAL



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 DEMOLITION ELECTRICAL - SITE PLAN SCALE:1"=40'-0"												
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GENERAL DEMOLITION NOTES:

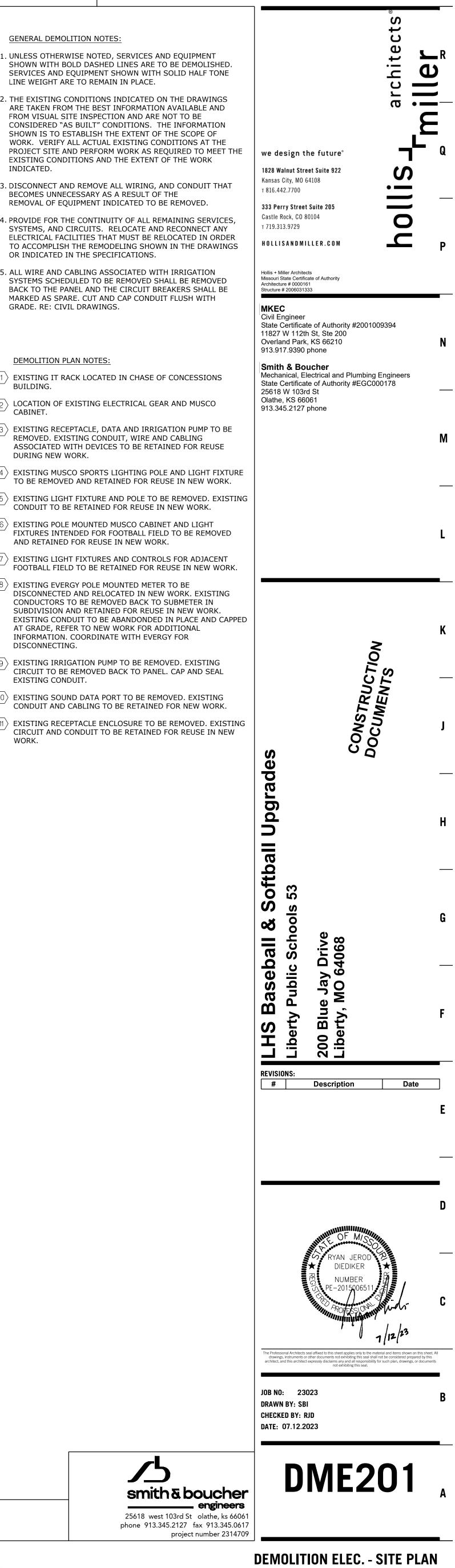
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- 1. UNLESS OTHERWISE NOTED, SERVICES AND EQUIPMENT SHOWN WITH BOLD DASHED LINES ARE TO BE DEMOLISHED. SERVICES AND EQUIPMENT SHOWN WITH SOLID HALF TONE LINE WEIGHT ARE TO REMAIN IN PLACE.
- 2. THE EXISTING CONDITIONS INDICATED ON THE DRAWINGS ARE TAKEN FROM THE BEST INFORMATION AVAILABLE AND FROM VISUAL SITE INSPECTION AND ARE NOT TO BE CONSIDERED "AS BUILT" CONDITIONS. THE INFORMATION SHOWN IS TO ESTABLISH THE EXTENT OF THE SCOPE OF WORK. VERIFY ALL ACTUAL EXISTING CONDITIONS AT THE EXISTING CONDITIONS AND THE EXTENT OF THE WORK INDICATED.
- 3. DISCONNECT AND REMOVE ALL WIRING, AND CONDUIT THAT BECOMES UNNECESSARY AS A RESULT OF THE REMOVAL OF EQUIPMENT INDICATED TO BE REMOVED.
- 4. PROVIDE FOR THE CONTINUITY OF ALL REMAINING SERVICES, SYSTEMS, AND CIRCUITS. RELOCATE AND RECONNECT ANY ELECTRICAL FACILITIES THAT MUST BE RELOCATED IN ORDER TO ACCOMPLISH THE REMODELING SHOWN IN THE DRAWINGS OR INDICATED IN THE SPECIFICATIONS.
- 5. ALL WIRE AND CABLING ASSOCIATED WITH IRRIGATION SYSTEMS SCHEDULED TO BE REMOVED SHALL BE REMOVED BACK TO THE PANEL AND THE CIRCUIT BREAKERS SHALL BE MARKED AS SPARE. CUT AND CAP CONDUIT FLUSH WITH GRADE. RE: CIVIL DRAWINGS.

DEMOLITION PLAN NOTES:

- $\fbox{1}$ EXISTING IT RACK LOCATED IN CHASE OF CONCESSIONS BUILDING.
- $\fbox{2}$ location of existing electrical gear and musco cabinet.
- $\langle \mathfrak{I} \rangle$ EXISTING RECEPTACLE, DATA AND IRRIGATION PUMP TO BE REMOVED. EXISTING CONDUIT, WIRE AND CABLING ASSOCIATED WITH DEVICES TO BE RETAINED FOR REUSE DURING NEW WORK.
- $\langle 4 \rangle$ EXISTING MUSCO SPORTS LIGHTING POLE AND LIGHT FIXTURE TO BE REMOVED AND RETAINED FOR REUSE IN NEW WORK.
- 5 EXISTING LIGHT FIXTURE AND POLE TO BE REMOVED. EXISTING CONDUIT TO BE RETAINED FOR REUSE IN NEW WORK.
- $\fbox{6}$ EXISTING POLE MOUNTED MUSCO CABINET AND LIGHT FIXTURES INTENDED FOR FOOTBALL FIELD TO BE REMOVED AND RETAINED FOR REUSE IN NEW WORK.
- $\langle 7 \rangle$ EXISTING LIGHT FIXTURES AND CONTROLS FOR ADJACENT FOOTBALL FIELD TO BE RETAINED FOR REUSE IN NEW WORK.
- $\langle 8 \rangle$ existing evergy pole mounted meter to be DISCONNECTED AND RELOCATED IN NEW WORK. EXISTING CONDUCTORS TO BE REMOVED BACK TO SUBMETER IN SUBDIVISION AND RETAINED FOR REUSE IN NEW WORK. EXISTING CONDUIT TO BE ABANDONDED IN PLACE AND CAPPED AT GRADE, REFER TO NEW WORK FOR ADDITIONAL INFORMATION. COORDINATE WITH EVERGY FOR DISCONNECTING.
- (9) EXISTING IRRIGATION PUMP TO BE REMOVED. EXISTING CIRCUIT TO BE REMOVED BACK TO PANEL. CAP AND SEAL EXISTING CONDUIT.
- $\overbrace{10}^{10}$ EXISTING SOUND DATA PORT TO BE REMOVED. EXISTING CONDUIT AND CABLING TO BE RETAINED FOR NEW WORK.
- (11) EXISTING RECEPTACLE ENCLOSURE TO BE REMOVED. EXISTING CIRCUIT AND CONDUIT TO BE RETAINED FOR REUSE IN NEW WORK.



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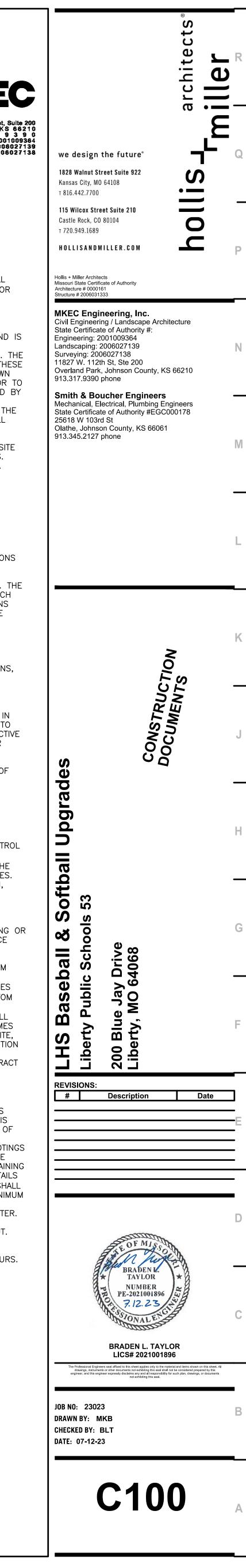
GENERAL NOTES:

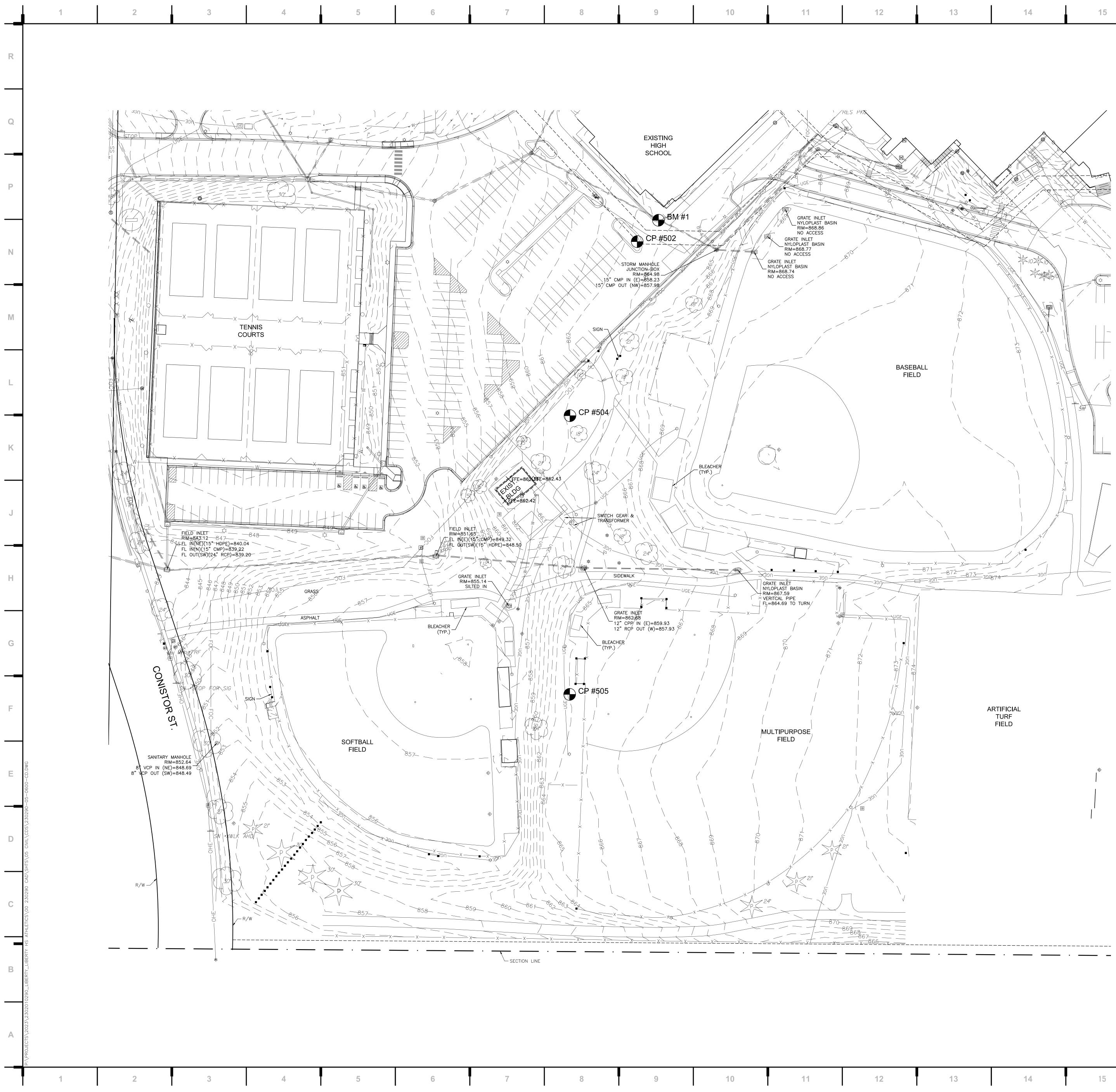
- 1. THE CONTRACTOR, PRIOR TO ANY EXCAVATION OR NEW CONSTRUCTION, SHALL HAVE UTILITIES FIELD LOCATED BY THE APPROPRIATE UTILITY COMPANY AND/OR CITY/COUNTY DEPARTMENT.
- 2. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THESE PLANS, REPRESENTS THE BEST INFORMATION AVAILABLE TO THE ENGINEER. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. HOWEVER, ALL UTILITIES ACTUALLY EXISTING MAY NOT BE SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING ALL UTILITIES WHETHER THESE UTILITIES ARE SHOWN ON THE PLANS, NOT SHOWN ON THE PLANS, OR SHOWN INCORRECTLY. UTILITIES DAMAGED THROUGH THE FAILURE OF THE CONTRACTOR TO OBTAIN THE LOCATION OF THOSE UTILITIES SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE. THE CONTRACTOR SHALL, PRIOR TO ANY EXCAVATION OR NEW CONSTRUCTION, HAVE ALL UTILITIES FIELD LOCATED BY THE APPROPRIATE UTILITY COMPANY, CITY OR COUNTY DEPARTMENT, OR ONE-CALL SERVICE.
- 3. THE SITE PLAN IS BASED ON A SURVEY OF THE SITE. CONDITIONS OF THE SITE AT THE TIME OF CONSTRUCTION MAY VARY FROM THE SURVEYED CONDITIONS. CONTRACTOR TO VERIFY EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
- 4. ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS SHALL BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED.
- 5. NO CHANGES TO THE APPROVED CONSTRUCTION PLANS WILL BE PERMITTED WITHOUT PRIOR APPROVAL OF THE DESIGN ENGINEER.
- 6. IF BLASTING IS REQUIRED DURING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE APPROPRIATE AGENCIES TO OBTAIN THE REQUIRED PERMITS. IF BLASTING IS ALLOWED, THE CONTRACTOR SHALL PERFORM BLASTING OPERATIONS ACCORDING TO STATE REGULATIONS AND LOCAL ORDINANCES.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY PINS. THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY PINS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH PINS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
- 8. CONTRACTOR TO HAVE REGISTERED LAND SURVEYOR RESET SECTION CORNER MONUMENT IF DISTURBED DURING CONSTRUCTION.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES, DIMENSIONS, AND PLAN SCALES AND SHALL IMMEDIATELY NOTIFY THE OWNER/ENGINEER/ARCHITECT OF ANY SUCH DISCREPANCIES. ALL QUANTITIES, DIMENSIONS, AND PLAN SCALES PROVIDED ARE FOR GENERAL INFORMATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALL QUANTITIES NECESSARY FOR THE COMPLETION OF THE WORK AS DESCRIBED IN THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE THE WORK DESCRIBED IN THE CONSTRUCTION DOCUMENTS IRRESPECTIVE OF THE QUANTITIES, DIMENSIONS, AND PLAN SCALES NOTED, NOT NOTED, OR NOTED INCORRECTLY.
- 10. ANY CURB, GUTTER, SIDEWALKS, AND PAVING THAT IS DAMAGED IN EXCESS OF THE CONSTRUCTION SHOWN IN THIS PLAN SET SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
- 11. ALL REMOVALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PER APPLICABLE STANDARDS (UNLESS OTHERWISE NOTED).
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL WHEN WORKING WITHIN THE PUBLIC RIGHT-OF-WAY. ALL SUCH TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL" AND/OR LOCAL JURISDICTION SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL ENSURE ALL TRAFFIC CONTROL DEVICES ARE CLEAN, PROPERLY VISIBLE, OPERATING CORRECTLY, AND LOCATED PROPERLY. THE CONTRACTOR SHALL IMMEDIATELY REPLACE ANY DAMAGED, DEFACED, OR INOPERABLE, OR MISSING TRAFFIC CONTROL DEVICES.
- 13. THE CONTRACTOR IS TO PROVIDE PERMANENT SEEDING, FERTILIZING, MULCHING OR SODDING OF ALL DISTURBED AREAS. THIS WORK TO BE DONE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 14. ALL SITE WORK FOR THIS PROJECT IS CONSIDERED "UNCLASSIFIED." THE TERM "UNCLASSIFIED" EXCAVATION SHALL BE DEFINED AS MEANING THE SITE CONTRACTOR BEARS THE ENTIRE RISK OF THE SOIL QUANTITIES AND/OR TYPES (E.G. ROCK, CLAY, PEAT, SILT, SHALE, ETC.) ENCOUNTERED ABOVE THE BOTTOM OF REQUIRED EXCAVATIONS AND OVER-EXCAVATED / TREATED SOILS AREAS. ABOVE THE BOTTOM OF REQUIRED EXCAVATIONS, THE SITE CONTRACTOR SHALL BEAR THE ENTIRE COST OF SUCH ADDITIONAL WORK IN THE EVENT IT BECOMES NECESSARY FOR UNSUITABLE SOILS TO BE HANDLED, REMOVED FROM THE SITE, OR FOR SUITABLE FILL MATERIAL TO BE IMPORTED TO THE SITE. THIS DEFINITION OF "UNCLASSIFIED" SUPERSEDES ANY CONTRARY DEFINITIONS OR STATEMENTS WHICH MAY BE CONTAINED IN THE SPECIFICATIONS, PLANS, OR OTHER CONTRACT DOCUMENTS. THE UNCLASSIFIED SITE SHALL INCLUDE ALL WORK ABOVE THE BOTTOM OF REQUIRED EXCAVATIONS AND/OR REQUIRED SOIL REMEDIATION/REPLACEMENT.
- 15. RETAINING WALLS SHOWN ON THE PLANS SHALL BE MODULAR BLOCK UNLESS OTHERWISE NOTED. THE ENGINEER WHOSE SEAL APPEARS ON THESE PLANS IS NOT RESPONSIBLE FOR THE DESIGN, STRUCTURAL INTEGRITY, OR SUITABILITY OF ANY RETAINING WALLS. THE BOTTOM OF WALL ELEVATIONS LISTED ON THESE PLANS ARE FINISHED GRADES AT THE WALL. ANY AMOUNT OF WALL AND FOOTINGS BELOW FINISHED GRADE REQUIRED BY THE RETAINING WALL DESIGN SHALL BE INSTALLED. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF ALL RETAINING WALLS AND SHALL SUBMIT CONSTRUCTION PLANS, SHOP DRAWINGS, AND DETAILS TO THE ARCHITECT/OWNER FOR REVIEW AND APPROVAL. THE WALL DESIGN SHALL INCLUDE A GLOBAL STABILITY ANALYSIS. WALL LOADING SHALL INCLUDE A MINIMUM SURCHARGE LOAD OF TWICE THE SOIL UNIT WEIGHT PER SQUARE FOOT OR APPLICABLE AASHTO VEHICLE LOADING, WHICH EVER IS APPLICABLE OR GREATER.
- 16. REFER TO ARCHITECTURAL PLANS FOR ALL BUILDING DIMENSIONS AND LAYOUT. BUILDING SHALL NOT BE STAKED FROM CIVIL DRAWINGS.
- 17. PROPOSED CONTOURS SHOWN ON THESE PLANS ARE FINAL SURFACE CONTOURS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ADJUSTMENTS FOR PAVEMENT THICKNESS, SUBGRADE THICKNESS, TOPSOIL, REMOVALS, ETC.

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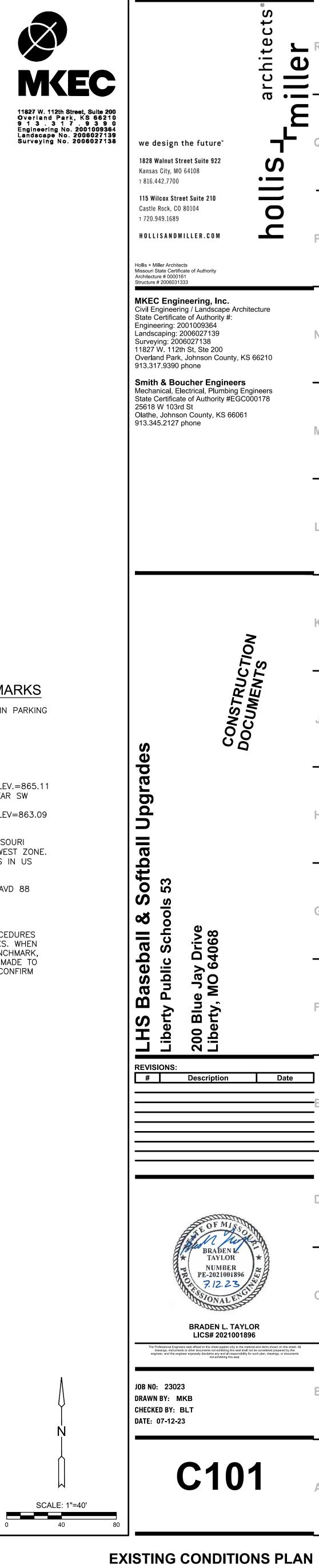
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OHT	_	OVERHEAD TELEPHONE LINE
TV	_	CABLE TV RISER
<u> </u> FO	_	FIBER OPTICS INDICATOR SIGN
TV	_	UNDERGROUND CABLE TV LINE
FOC	_	UNDERGROUND FIBER OPTIC CABLE
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OHE	_	OVERHEAD ELECTRIC LINE
GM	_	GAS METER
⊳GV	_	GAS VALVE
G	_	GAS LINE
<u>(</u>)	_	SANITARY SEWER MANHOLE
\bigcirc	_	CLEANOUT
SS	_	SANITARY SEWER LINE
	_	INLET
S	_	STORM WATER MANHOLE
\bigcirc	_	ROOF DRAIN
	_	GRATE INLET
	_	EXISTING STORM SEWER PIPE
	_	PROPOSED STORM SEWER PIPE
SW	_	ROOF DRAIN LINE
	_	PERFORATE DRAIN PIPE
Ð	_	FIRE HYDRANT
wWV	_	WATER VALVE
Ŵ	_	WATER METER
Ŵ	_	MONITORING WELL
$\tilde{\mathbb{Q}}$	_	WATER METER VAULT
Ŏ	_	WATER SPIGOT
W	_	WATER LINE
	_	FIRE PROTECTION LINE
	_	IRRIGATION CONTROL VALVE
	_	EXISTING MAJOR CONTOUR





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CONTROL POINTS & BENCHMARKS

СР	#502	5/8" REBAR W/ MKEC DESIGN CAP IN PARKING
		ISLAND
		N=1118987.449, E=2803041.788,
		ELEV.=862.82

СΡ	#504	5/8"	REBAR	W/	MKEC	DESIGN	CAP
		N = 11	18800.0	631.	F=28	02969.59	92.

		ELEV.	=864.26		
00	11-0-	F /O"		DECION	~ • •

CP #505	5/8″ REBAR W/ MKEC DESIGN CAP
	N=1118501.488, E=2802969.270, ELEV.=865.11
BM #1	CHISELED SQUARE. TOP OF CURB NEAR SW

CORNER BUILDING N=1119010.375, E=2803064.611, ELEV=863.09

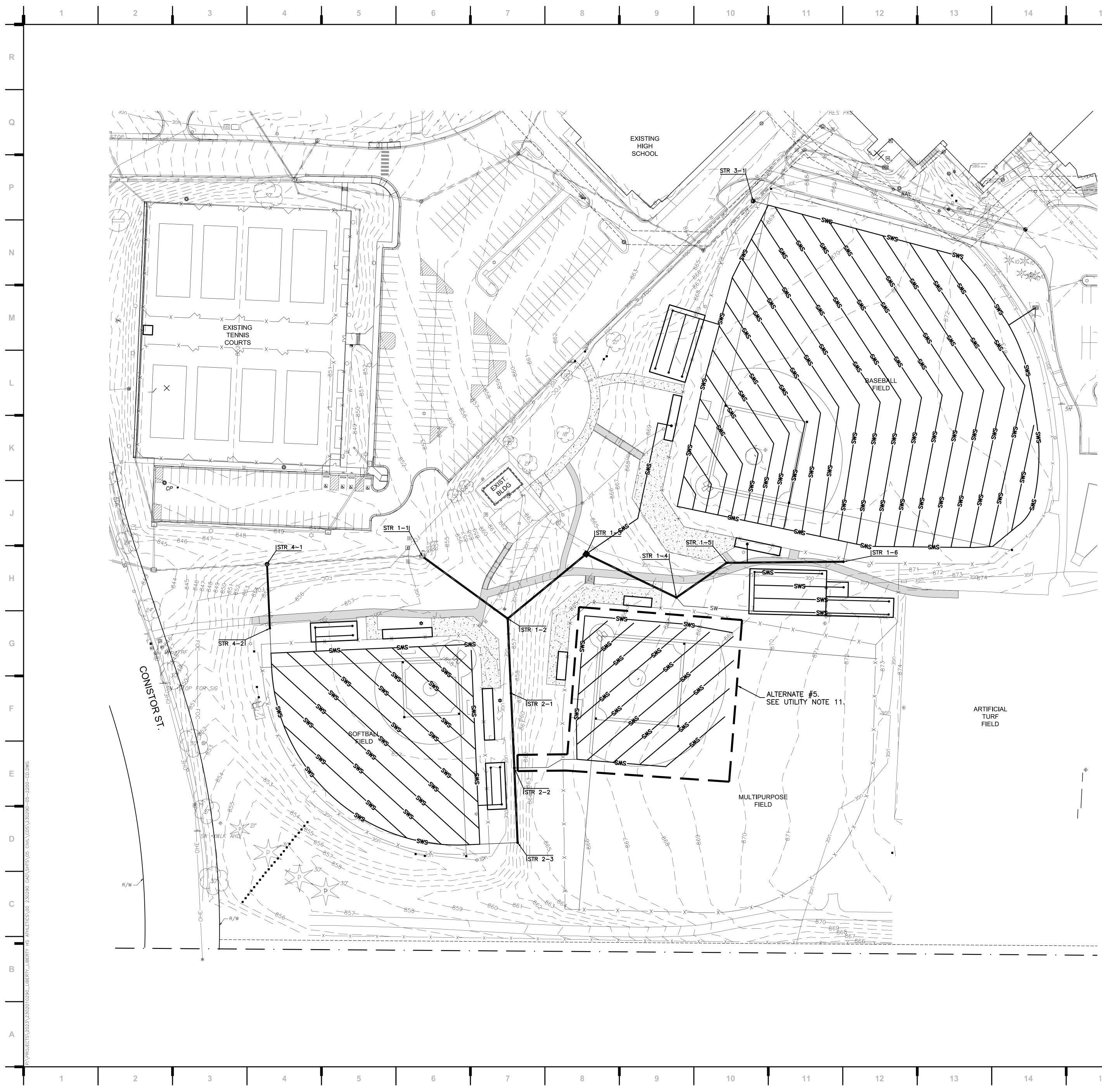
DATUM: THE HORIZONTAL DATUM IS BASED ON THE MISSOURI COORDINATE SYSTEM OF 1983, NAD83(2011), WEST ZONE. COORDINATES SHOWN ARE STATE PLANE VALUES IN US FEET.

ALL ELEVATIONS SHOWN ARE BASED ON THE NAVD 88 VERTICAL DATUM, GEOID 18 IN US FEET.

NOTE: ALL CONTROL POINTS SHOWN HAVE ELEVATIONS ESTABLISHED USING STANDARD SURVEYING PROCEDURES AND CAN BE USED AS TEMPORARY BENCHMARKS. WHEN USING A CONTROL POINT AS A TEMPORARY BENCHMARK, IT IS RECOMMENDED THAT CROSS-CHECKS BE MADE TO OTHER CONTROL POINTS OR BENCHMARKS TO CONFIRM ELEVATIONS PRIOR TO USE.

SEE PLAN FOR LOCATIONS.

Please consider the environment before printing this.



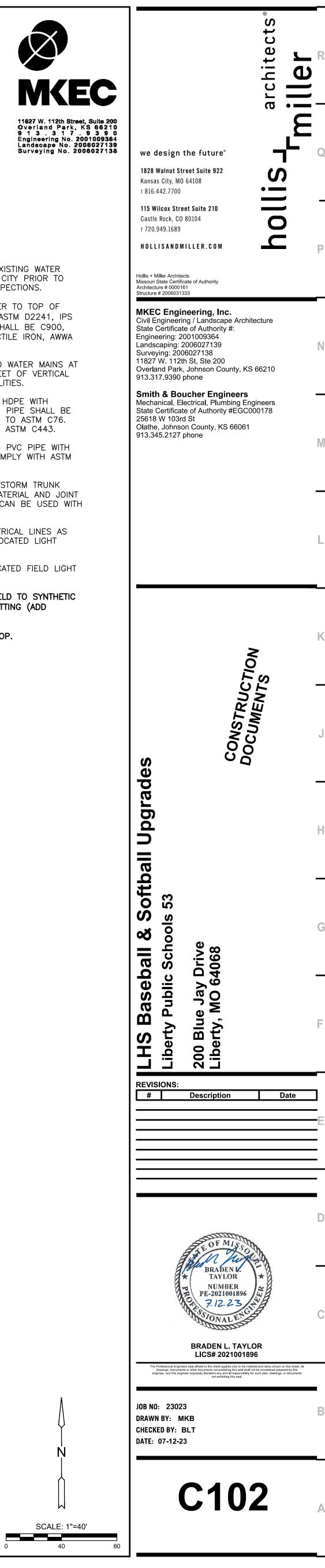
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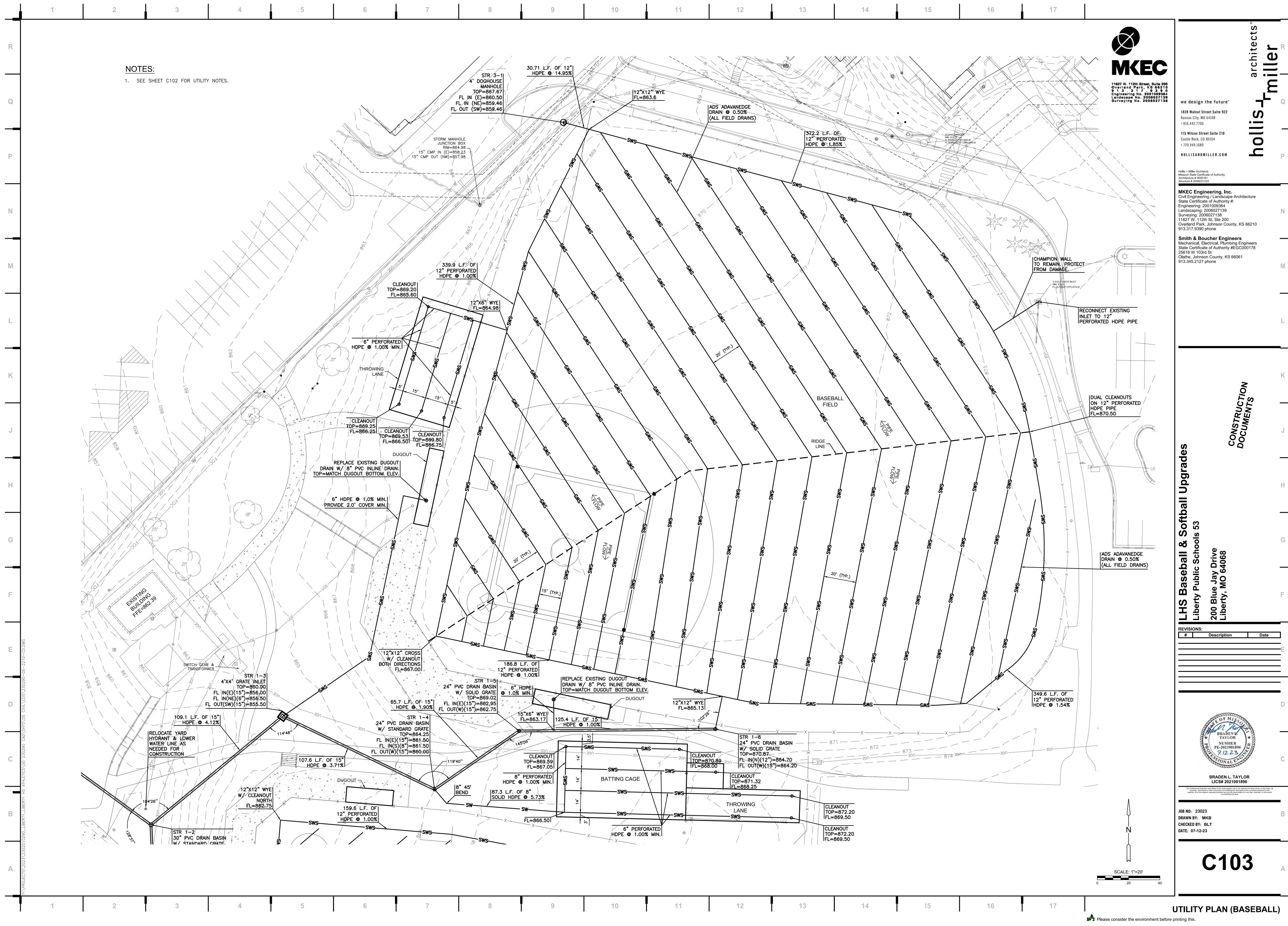
UTILITY NOTES:

- 1. SEE SHEET C200 FOR UTILITY DETAILS.
- 2. SEE SHEETS C103-C105 FOR DETAILED UTILITY NOTES.
- 3. CONTRACTOR TO VERIFY THE LOCATION AND SIZE OF EXISTING WATER MAIN PRIOR TO CONSTRUCTION. COORDINATE WITH THE CITY PRIOR TO EXCAVATION AND TAP FOR TAP REQUIREMENTS AND INSPECTIONS.
- 4. WATER LINES SHALL HAVE A MINIMUM OF 42" OF COVER TO TOP OF PIPE, WATER LINES SMALLER THAN 4" SHALL BE PVC-ASTM D2241, IPS CLASS 160 (SDR 26). WATER LINES 4" AND LARGER SHALL BE C900, DR18 PVC. FITTINGS SHALL BE MECHANICAL JOINT, DUCTILE IRON, AWWA C110. BOLTS SHALL COMPLY WITH AWWA C111.
- 5. INSTALL VERTICAL BENDS AS NECESSARY ON PROPOSED WATER MAINS AT UTILITY CROSSINGS TO MAINTAIN A MINIMUM OF TWO FEET OF VERTICAL CLEARANCE BETWEEN THE WATER MAIN AND OTHER UTILITIES.
- 6. HDPE STORM PIPE SHALL BE CORRUGATED DUAL WALL HDPE WITH SMOOTH INTERIOR AND SOIL-TIGHT JOINTS. RCP STORM PIPE SHALL BE CLASS III, WALL B WITH GASKETED JOINTS CONFORMING TO ASTM C76. O-RING GASKETS SHALL CONFORM TO ASTM C361 AND ASTM C443.
- 7. SANITARY SEWER PIPE SHALL BE ASTM D3034, SDR 26 PVC PIPE WITH BELL ENDS AND GASKETED JOINTS. GASKETS SHALL COMPLY WITH ASTM F477.
- 8. ROOF DRAINS/DOWNSPOUTS SHALL BE CONNECTED TO STORM TRUNK LINE WITH PRE-MANUFACTURED WYE MATCHING PIPE MATERIAL AND JOINT TYPE. IN LIEU OF WYE, AN INSERTA-TEE CONNECTION CAN BE USED WITH HDPE PIPE.
- 9. CONTRACTOR TO RELOCATE AND LOWER EXISTING ELECTRICAL LINES AS NECESSARY TO MAINTAIN SERVICE TO EXISTING OR RELOCATED LIGHT POLES.
- 10. SEE ELECTRICAL PLANS FOR FINAL LOCATION OF RELOCATED FIELD LIGHT POLES.
- 11. ALTERNATE #5: CONVERT MULTI-PURPOSE FIELD'S INFIELD TO SYNTHETIC TURF WITH UNDERDRAINS, AND INSTALL BACK STOP NETTING (ADD ALTERNATE). BASE BID: DIRT INFIELD AND CHAINLINK FENCE BACKSTOP.

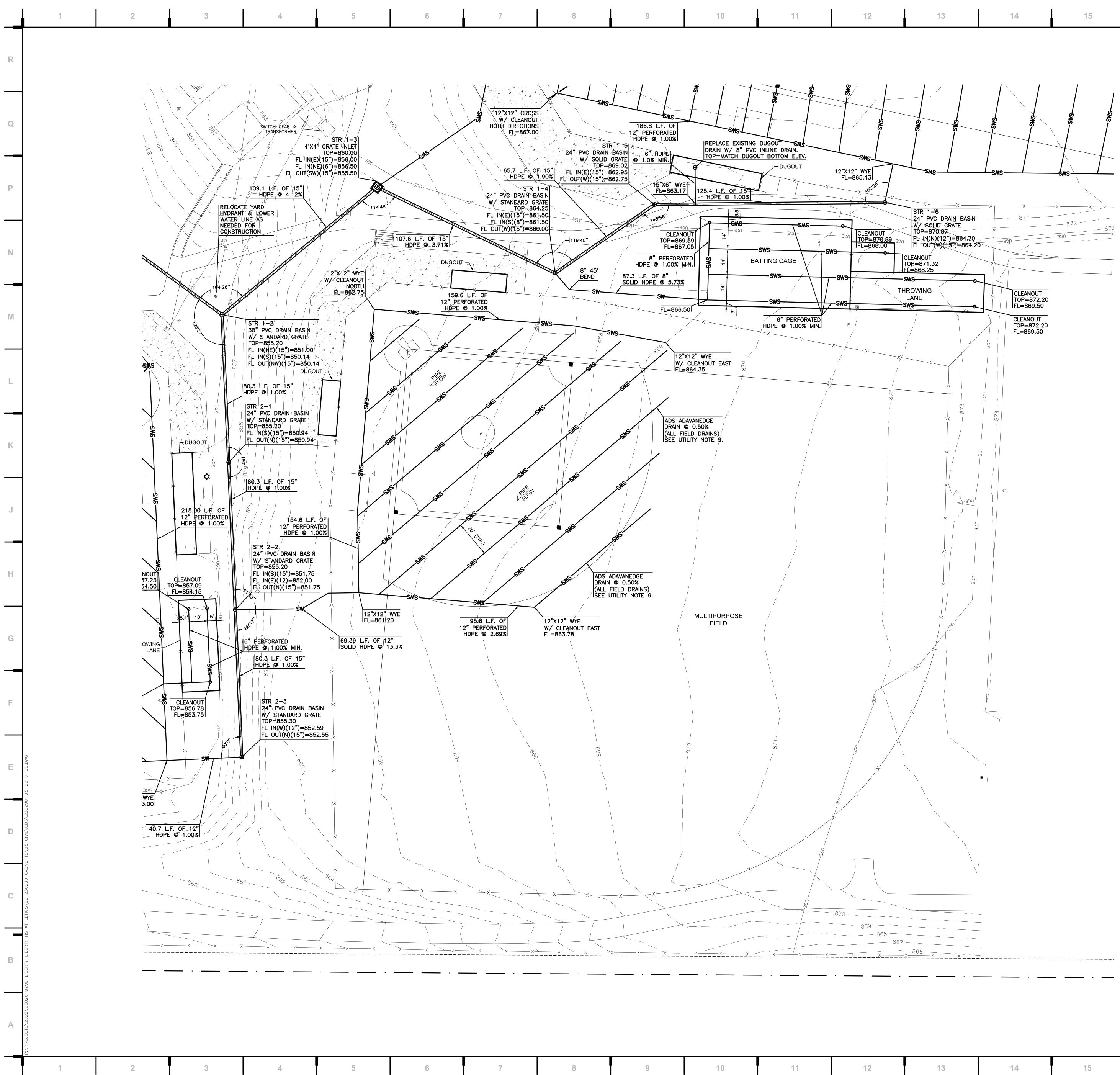
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OVERALL UTILITY PLAN Please consider the environment before printing this.

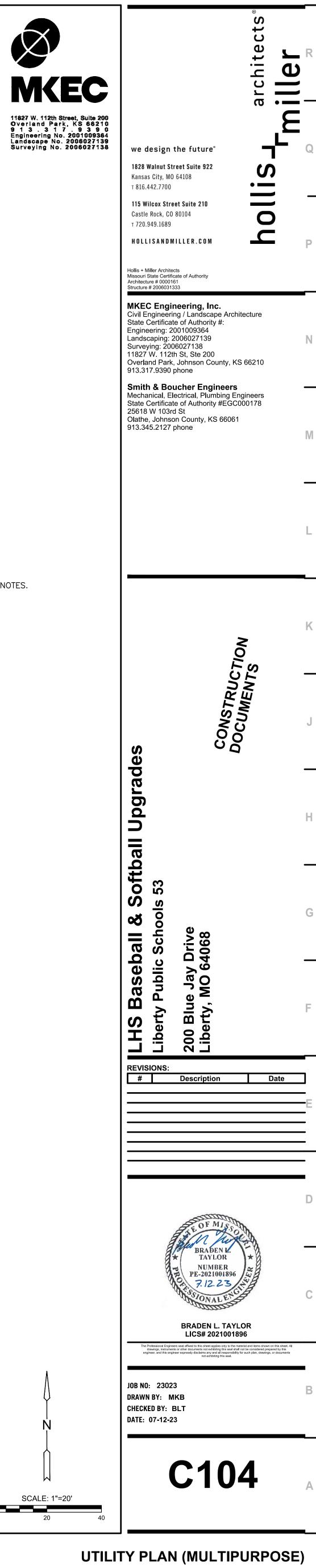


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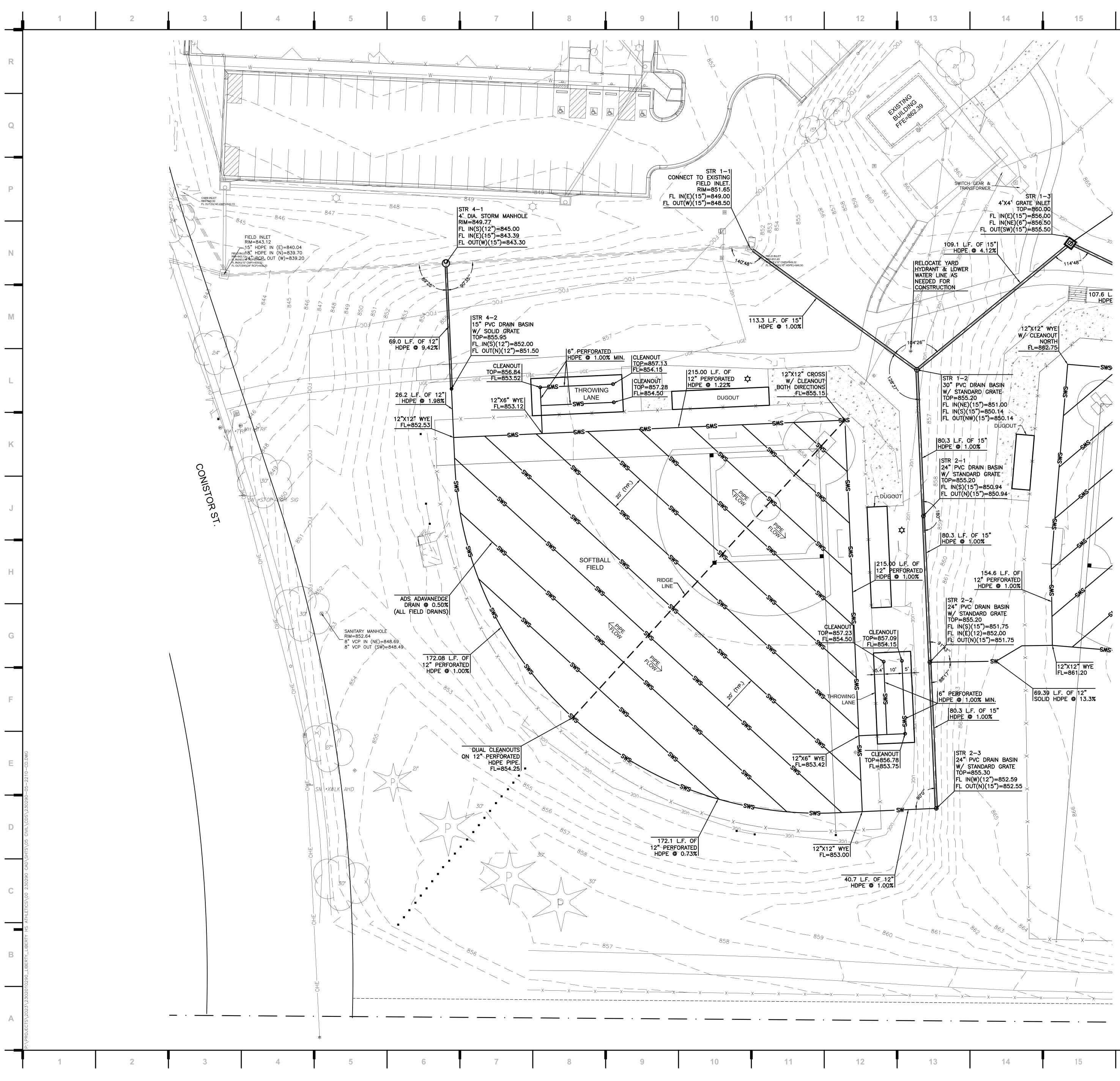
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NOTES:

1. SEE SHEET C102 FOR UTILITY NOTES.



X **MKEC** 11827 W. 112th Street, Suite 200 Overland Park, KS 66210 9 1 3 . 3 1 7 . 9 3 9 0 Engineering No. 2001009364 Landscape No. 2006027139 Surveying No. 2006027138

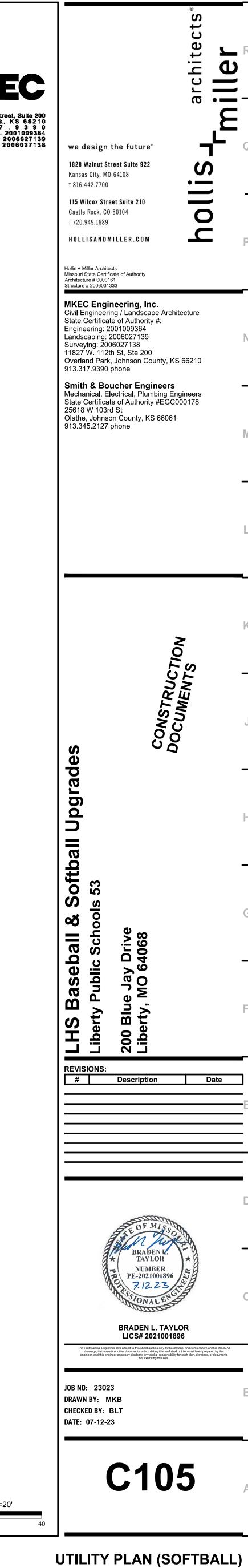
NOTES:

1. SEE SHEET C102 FOR UTILITY NOTES.

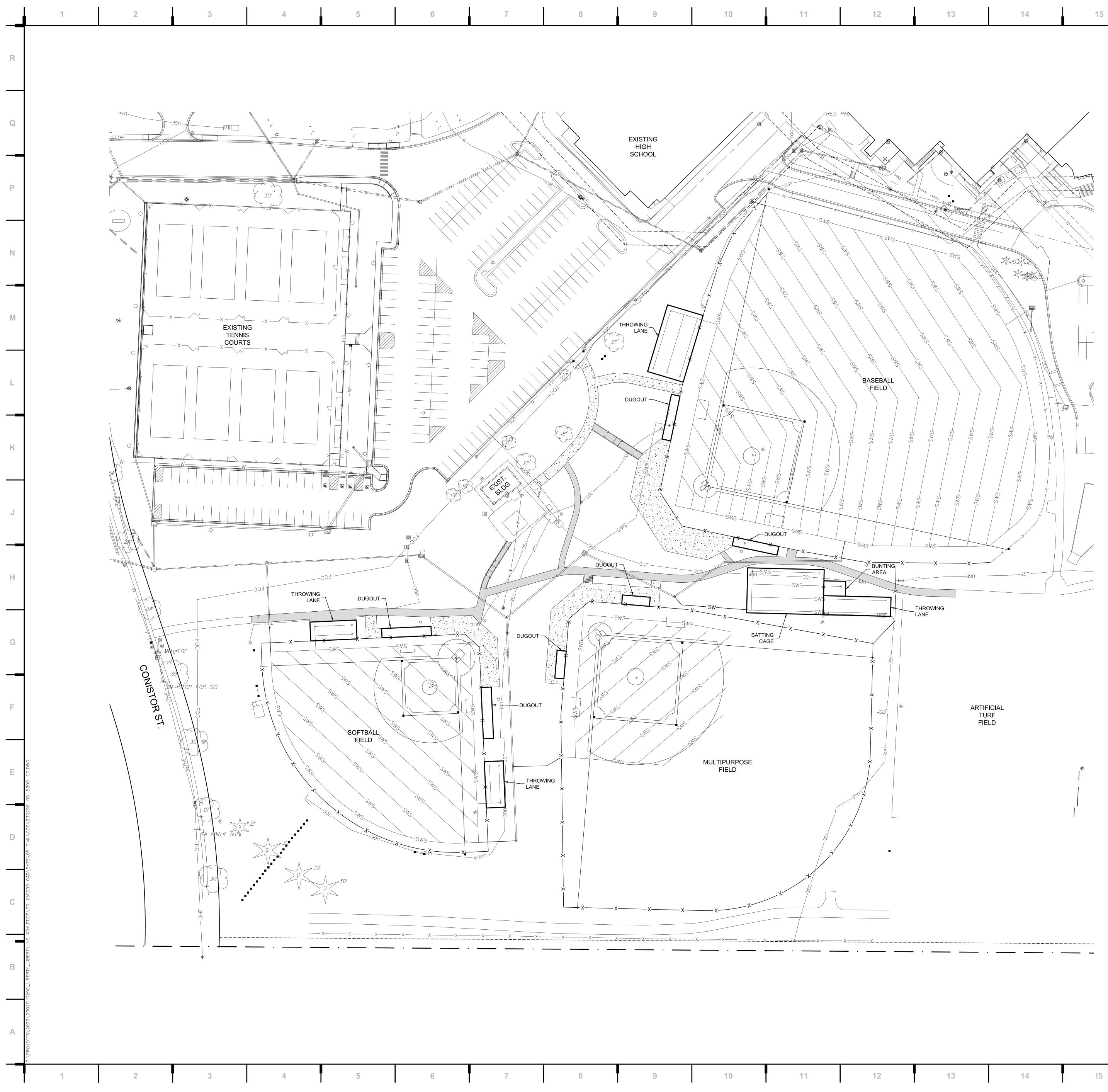
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SCALE: 1"=20'



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PAVING NOTES:

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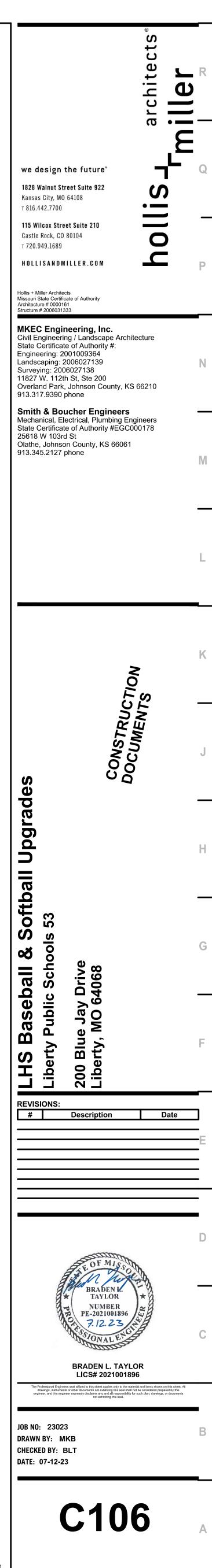
- 1. SEE SHEET C201 FOR PAVEMENT DETAILS.
- 2. ALL DIMENSIONS ARE TO BACK OF CURB.
- 3. PORTLAND CEMENT CONCRETE SHALL CONFORM WITH THE KANSAS CITY METRO MATERIALS BOARD MINIMUM 4000 PSI GRANITE MIX (KCMMB 4K).
- 4. ALL SIDEWALKS SHALL BE 4" UN-REINFORCED CONCRETE.
- 5. SIDEWALK RAMPS ON PRIVATE PROPERTY DO NOT REQUIRE 2' WIDE DETECTABLE WARNING STRIPS (TRUNCATED DOMES).
- 6. COMPACTED SUBGRADE AND AGGREGATE BASE UNDER PAVEMENTS SHALL EXTEND A MINIMUM OF 2' BEYOND THE EDGE OF PAVEMENT OR BACK OF CURB, WHICHEVER IS APPLICABLE.
- 7. 5' WIDE SIDEWALKS SHALL HAVE A MAXIMUM OF 5' CONTRACTION JOINT SPACING. 6' WIDE SIDEWALKS SHALL HAVE A MAXIMUM CONTRACTION JOINT SPACING OF 6'. 8' WIDE SIDEWALKS SHALL HAVE A MAXIMUM 4' CONTRACTION JOINT SPACING WITH A LONGITUDINAL CONTRACTION JOINT DOWN THE MIDDLE OF THE SIDEWALK.
- 8. CONTRACTOR SHALL BE RESPONSIBLE FOR REQUIRED TRAFFIC CONTROL NECESSARY ON SURROUNDING STREETS FOR CONSTRUCTION. TRAFFIC CONTROL SHALL COMPLY WITH THE LATEST EDITION OF MUTCD AND CITY SPECIFICATIONS.
- 9. COORDINATE INSTALLATION OF PVC SLEEVES AND GRANULAR TRENCH BACKFILL FOR IRRIGATION PRIOR TO PAVEMENT INSTALLATION.

PAVING LEGEND

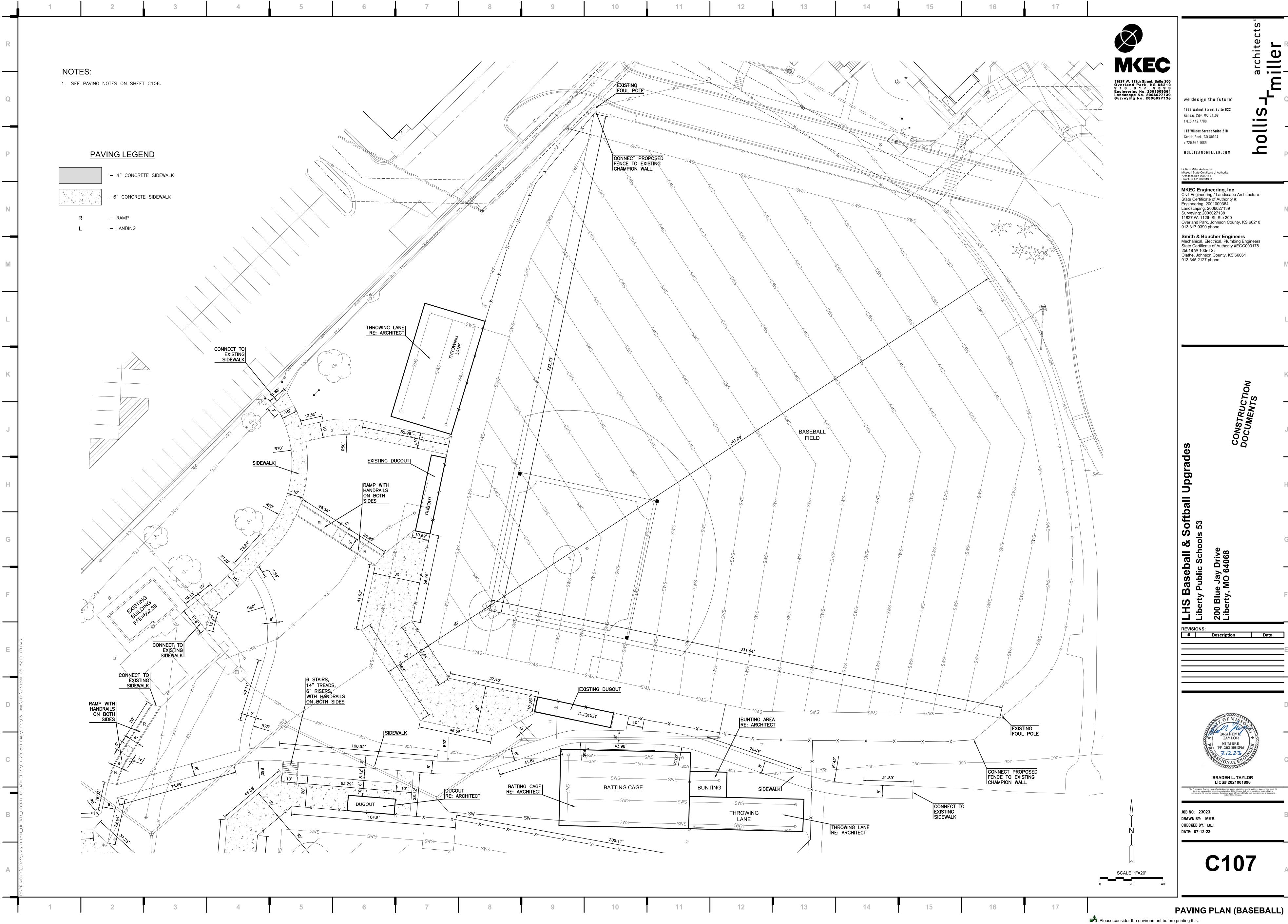
	– 4" CONCRETE SIDEWALK
	-6" CONCRETE SIDEWALK
R	- RAMP
L	– LANDING

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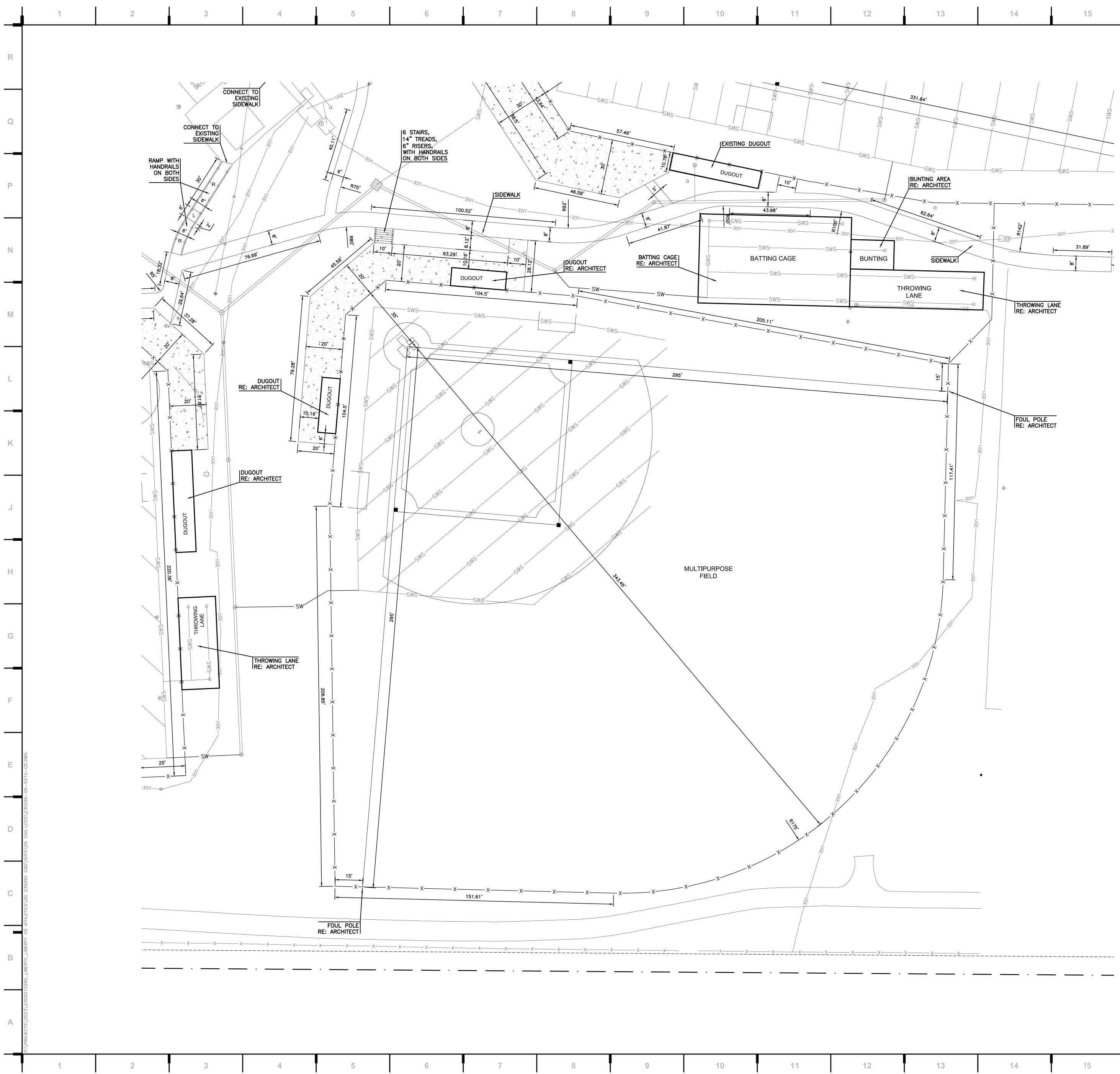




SCALE: 1"=40'

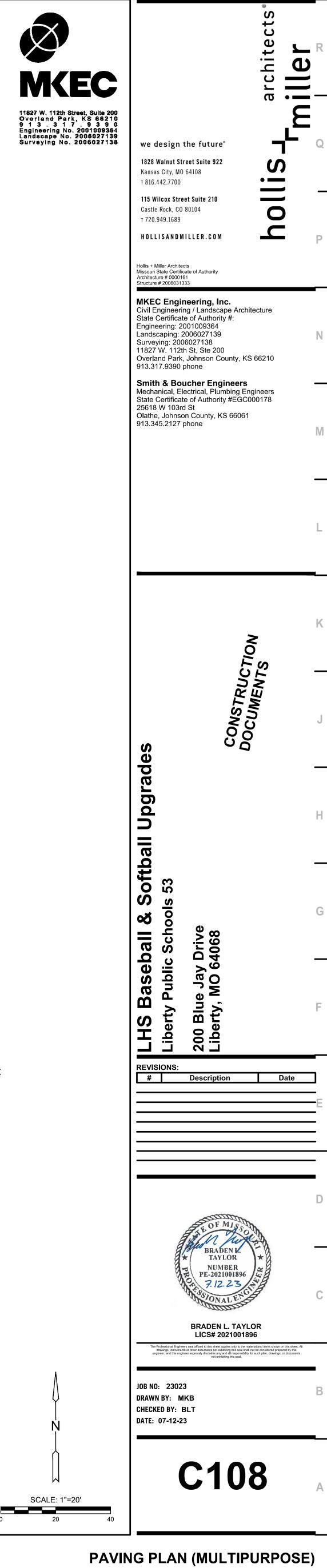


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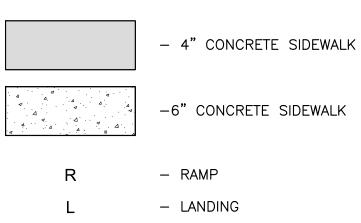
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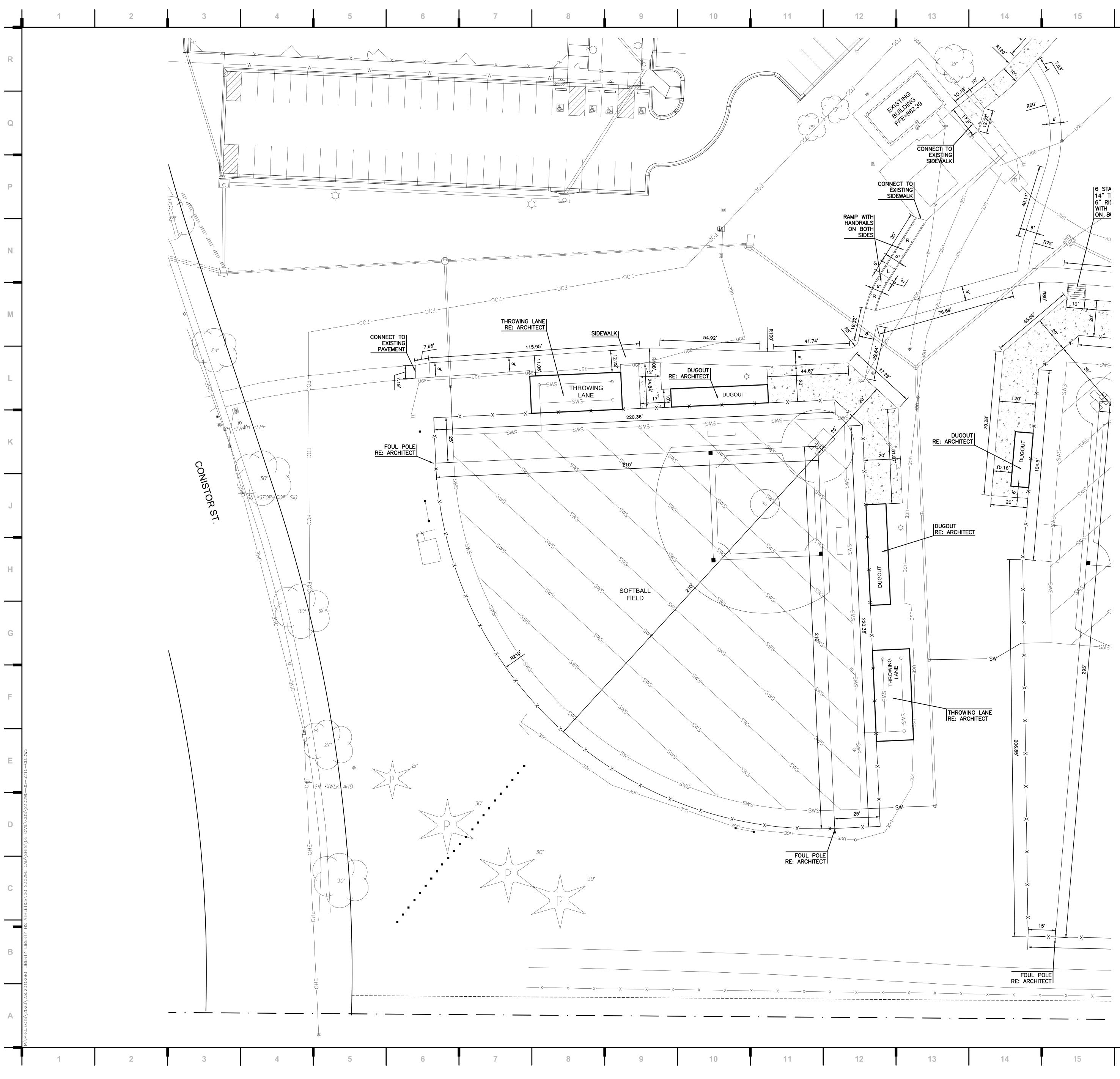
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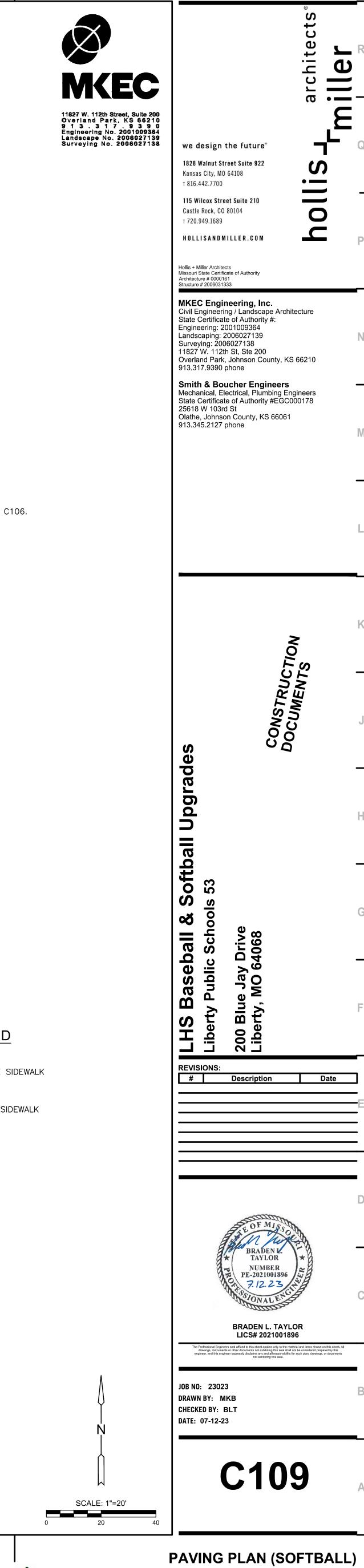


NOTES: 1. SEE PAVING NOTES ON SHEET C106.

PAVING LEGEND





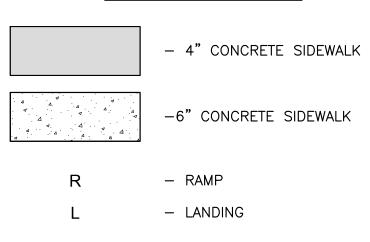


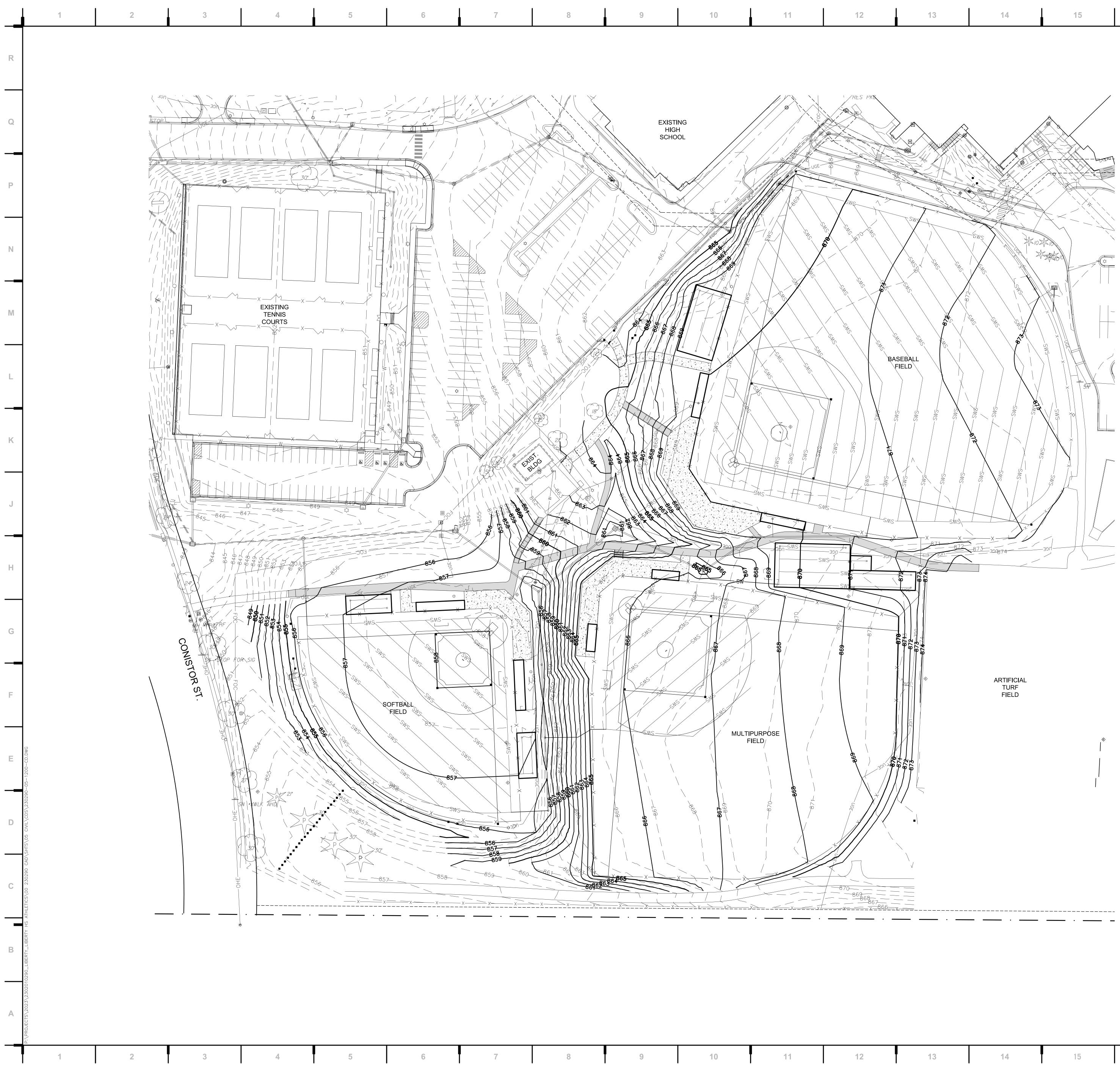
NOTES: 1. SEE PAVING NOTES ON SHEET C106.

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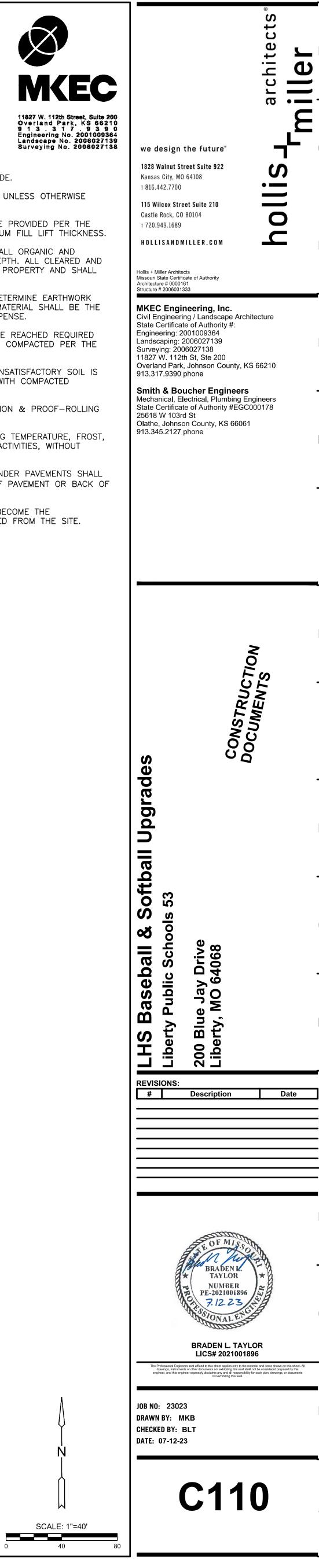
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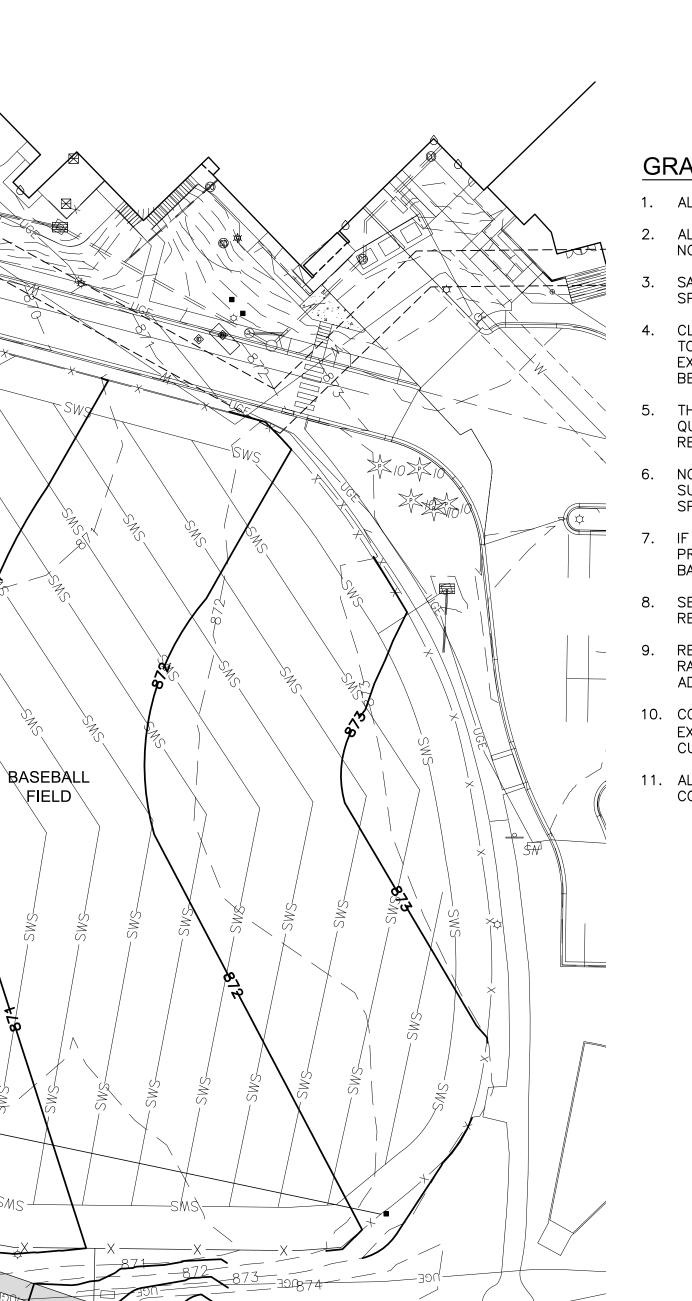


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GRADING NOTES:

- 1. ALL SPOT ELEVATIONS REPRESENT FINISHED GRADE.
- 2. ALL CURB SPOT ELEVATIONS ARE TOP OF CURB UNLESS OTHERWISE NOTED.
- SATISFACTORY SOIL AND FILL MATERIAL SHALL BE PROVIDED PER THE SPECIFICATIONS. SEE SPECIFICATIONS FOR MAXIMUM FILL LIFT THICKNESS.
- CLEAR AND GRUB IMPROVEMENT AREA. REMOVE ALL ORGANIC AND TOPSOIL MATERIAL REGARDLESS OF SIZE AND DEPTH. ALL CLEARED AND EXCESS MATERIAL SHALL BECOME CONTRACTORS PROPERTY AND SHALL BE REMOVED FROM THE PROJECT SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE EARTHWORK QUANTITIES. ALL IMPORT AND EXPORT OF SOIL MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT HIS EXPENSE.
- 6. NOTIFY TESTING AGENCY WHEN EXCAVATIONS HAVE REACHED REQUIRED SUBGRADE. SUBGRADE SHALL BE PREPARED AND COMPACTED PER THE SPECIFICATIONS.
- 7. IF GEOTECHNICAL ENGINEER DETERMINES THAT UNSATISFACTORY SOIL IS PRESENT, CONTINUE EXCAVATION AND REPLACE WITH COMPACTED BACKFILL OR FILL MATERIAL AS DIRECTED.
- 8. SEE EARTH WORK SPECIFICATIONS FOR COMPACTION & PROOF-ROLLING REQUIREMENTS.
- 9. RECONSTRUCT SUBGRADES DAMAGED BY FREEZING TEMPERATURE, FROST, RAIN, ACCUMULATED WATER, OR CONSTRUCTION ACTIVITIES, WITHOUT ADDITIONAL COMPENSATION.
- 10. COMPACTED SUBGRADE AND AGGREGATE BASE UNDER PAVEMENTS SHALL EXTEND A MINIMUM OF 2' BEYOND THE EDGE OF PAVEMENT OR BACK OF CURB, WHICHEVER IS APPLICABLE.
- 11. ALL EXCESS SOIL AND WASTE MATERIAL SHALL BECOME THE CONTRACTORS PROPERTY AND SHALL BE REMOVED FROM THE SITE.

ARTIFICIAL TURF FIELD

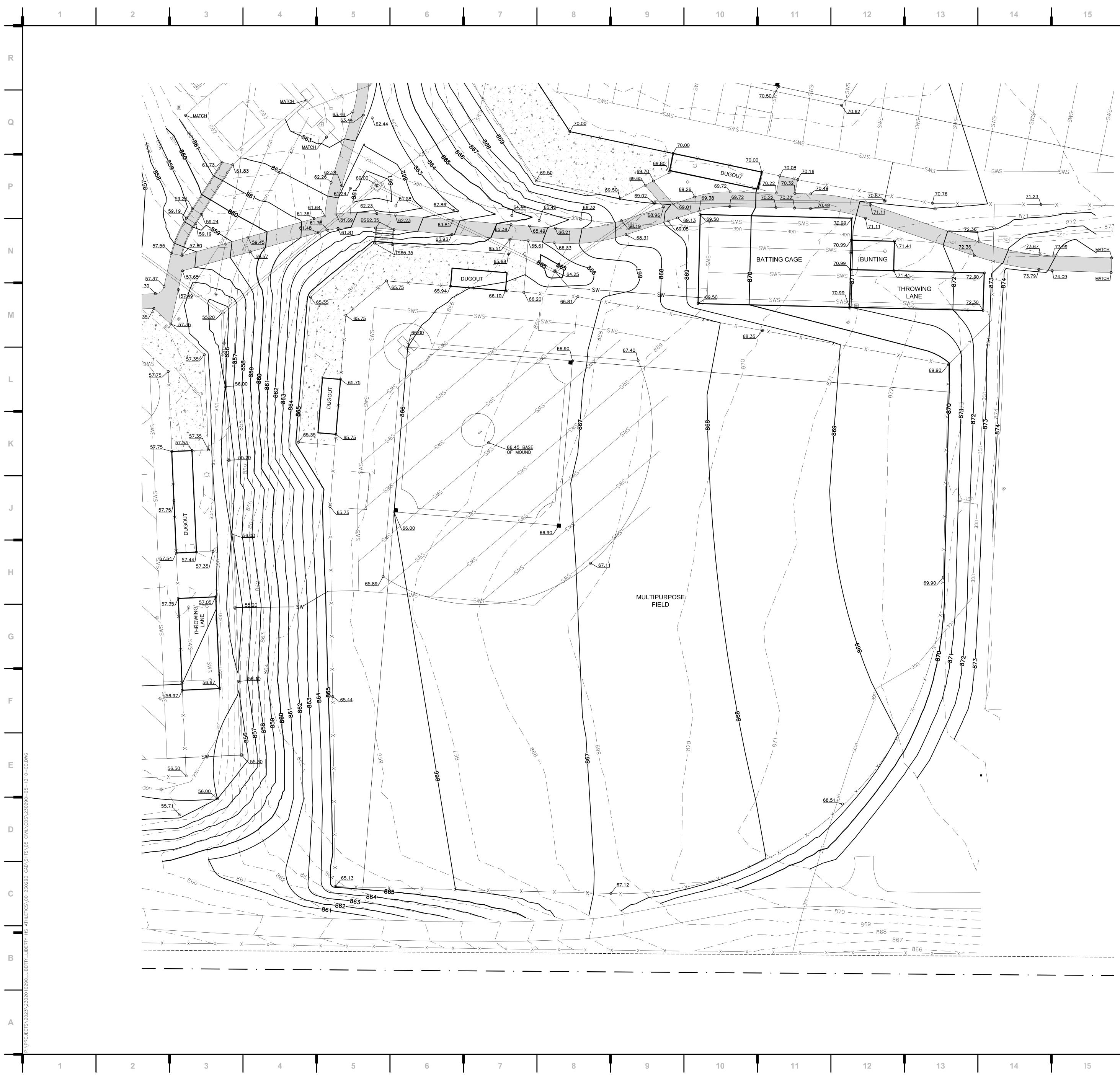
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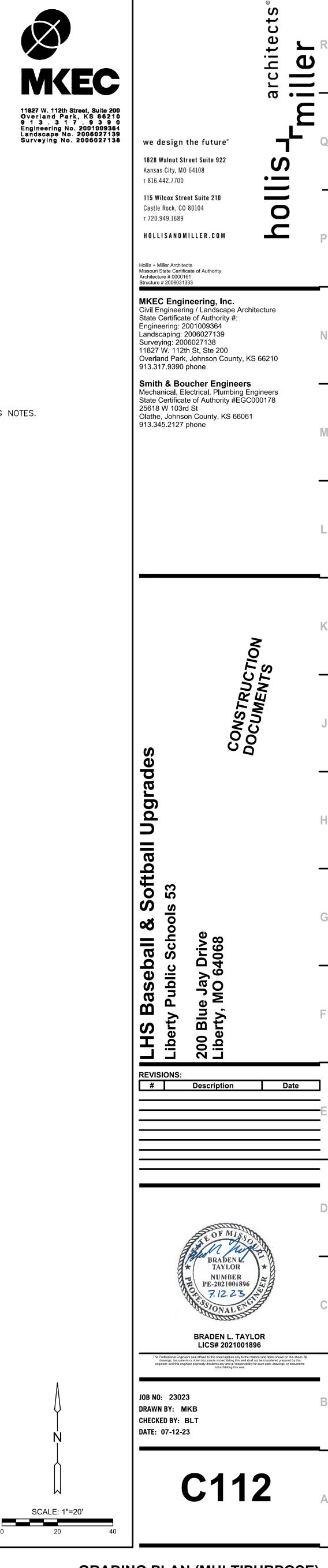


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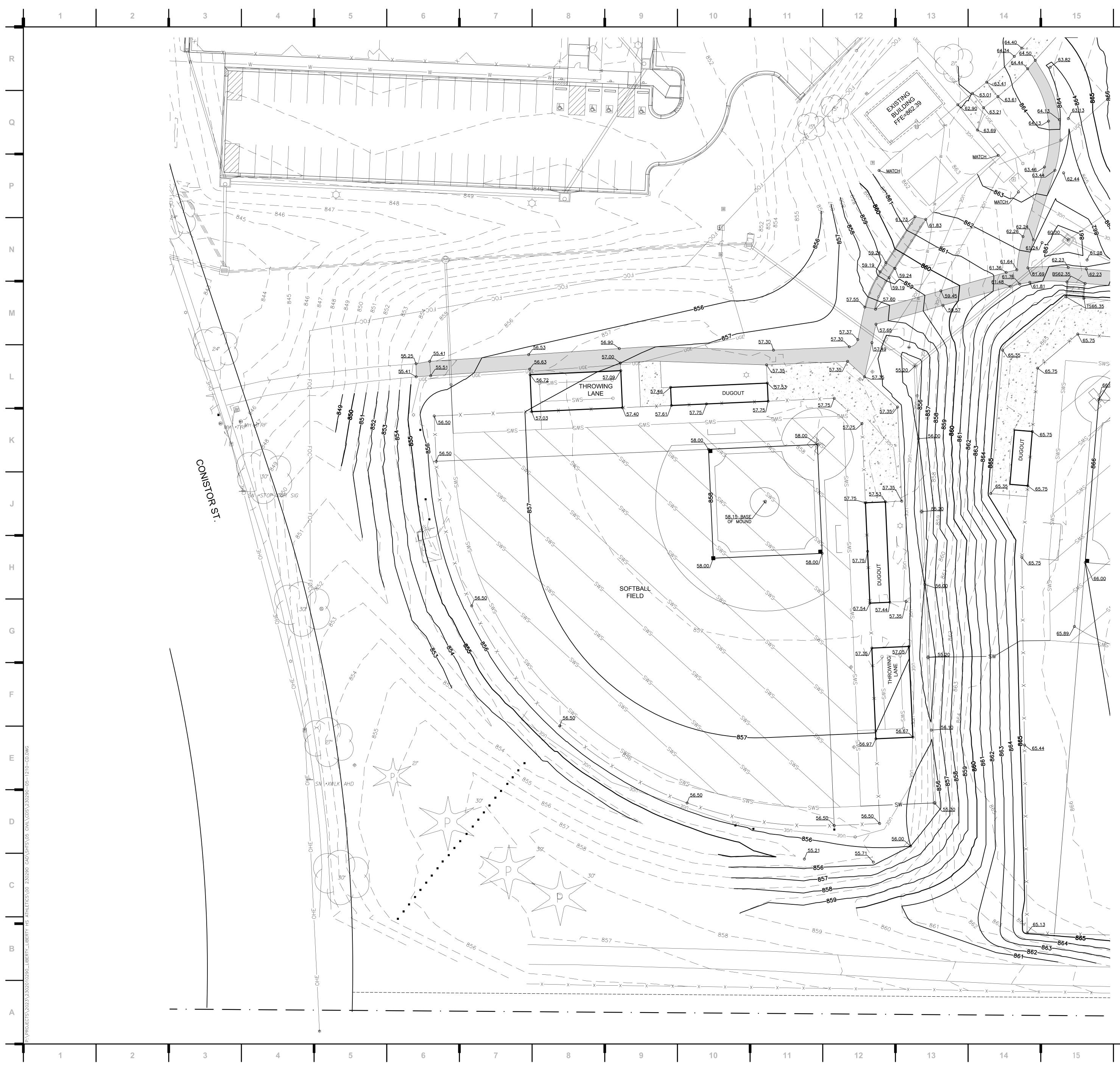
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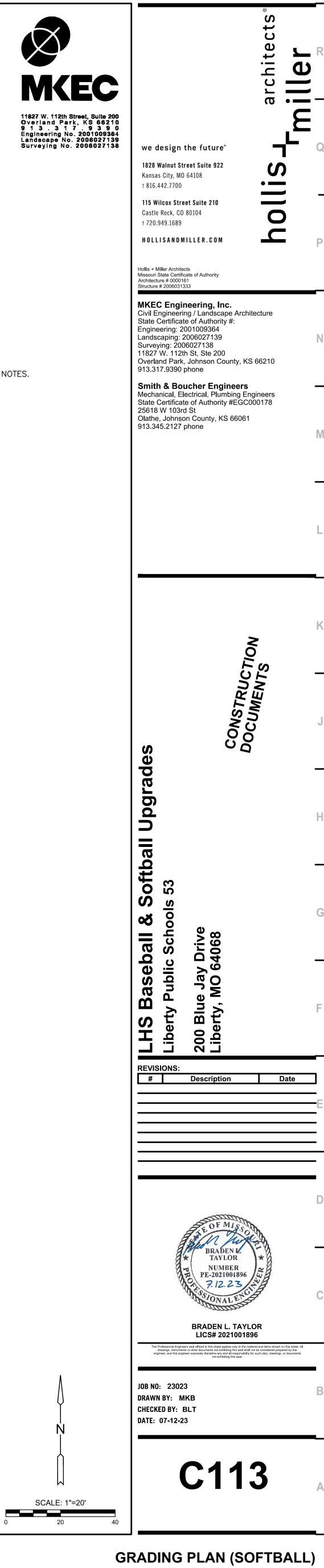


NOTES:

1. SEE SHEET C110 FOR GRADING NOTES.



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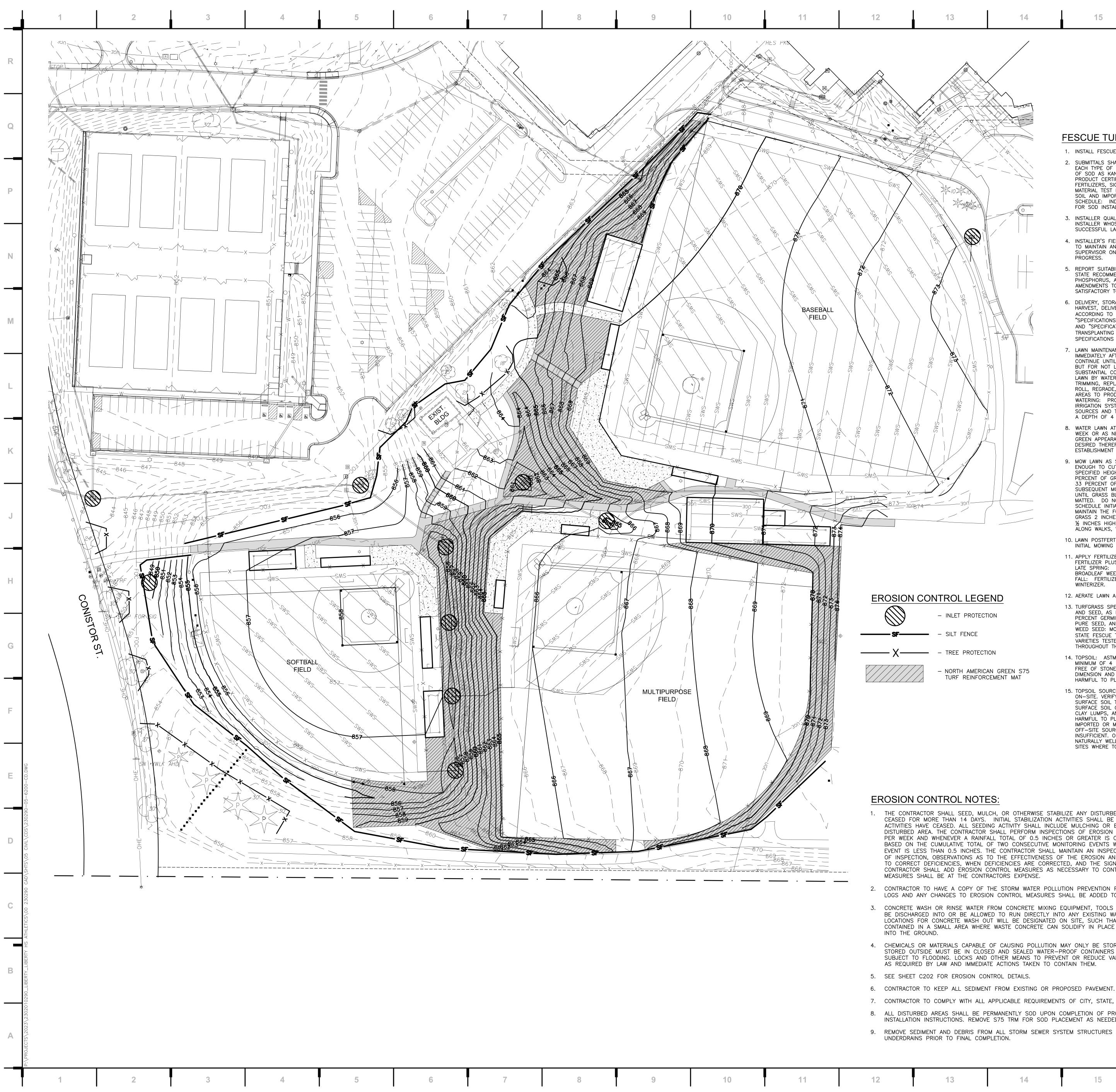
NOTES:

1. SEE SHEET C110 FOR GRADING NOTES.

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FESCUE TURF NOTES:

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- 1. INSTALL FESCUE TURF SOD PER NOTES BELOW.
- 2. SUBMITTALS SHALL INCLUDE: PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED, CERTIFICATION OF SOD AS KANSAS STATE FESCUE TRIAL MIX, PRODUCT CERTIFICATES: FOR SOIL AMENDMENTS AND FERTILIZERS, SIGNED BY PRODUCT MANUFACTURER, MATERIAL TEST REPORTS: FOR EXISTING SURFACE SOIL AND IMPORTED TOPSOIL, AND PLANTING SCHEDULE: INDICATING ANTICIPATED PLANTING DATES FOR SOD INSTALLATION.
- 3. INSTALLER QUALIFICATIONS: A QUALIFIED LANDSCAPE INSTALLER WHOSE WORK HAS RESULTED IN SUCCESSFUL LAWN ESTABLISHMENT.
- 4. INSTALLER'S FIELD SUPERVISION: REQUIRE INSTALLER TO MAINTAIN AN EXPERIENCED FULL-TIME SUPERVISOR ON PROJECT SITE WHEN PLANTING IS IN PROGRESS.
- 5. REPORT SUITABILITY OF TOPSOIL FOR LAWN GROWTH. STATE RECOMMENDED QUANTITIES OF NITROGEN, PHOSPHORUS, AND POTASH NUTRIENTS AND SOIL AMENDMENTS TO BE ADDED TO PRODUCE SATISFACTORY TOPSOIL.
- 6. DELIVERY, STORAGE, AND HANDLING FOR SOD: HARVEST, DELIVER, STORE, AND HANDLE SOD ACCORDING TO REQUIREMENTS IN TPI'S "SPECIFICATIONS FOR TURFGRASS SOD MATERIALS" AND "SPECIFICATIONS FOR TURFGRASS SOD TRANSPLANTING AND INSTALLATION" IN ITS "GUIDELINE SPECIFICATIONS TO TURFGRASS SODDING."
- . LAWN MAINTENANCE: BEGIN MAINTENANCE IMMEDIATELY AFTER EACH AREA IS PLANTED AND CONTINUE UNTIL ACCEPTABLE LAWN IS ESTABLISHED, BUT FOR NOT LESS THAN 60 DAYS FROM DATE OF SUBSTANTIAL COMPLETION. MAINTAIN AND ESTABLISH LAWN BY WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING, REPLANTING, AND OTHER OPERATIONS. ROLL, REGRADE, AND REPLANT BARE OR ERODED AREAS TO PRODUCE A UNIFORMLY SMOOTH LAWN. WATERING: PROVIDE AND MAINTAIN TEMPORARY IRRIGATION SYSTEM TO CONVEY WATER FROM SOURCES AND TO KEEP LAWN UNIFORMLY MOIST TO A DEPTH OF 4 INCHES.
- WATER LAWN AT A MINIMUM RATE OF 1 INCH PER WEEK OR AS NECESSARY TO PROVIDE A HEALTHY GREEN APPEARANCE. A DEEP ROOT SYSTEM IS DESIRED THEREFORE DO NOT WATER LAWNS AFTER ESTABLISHMENT MORE THAN EVERY OTHER DAY.
- 9. MOW LAWN AS SOON AS TOP GROWTH IS TALL ENOUGH TO CUT. REPEAT MOWING TO MAINTAIN SPECIFIED HEIGHT WITHOUT CUTTING MORE THAN 33 PERCENT OF GRASS HEIGHT. REMOVE NO MORE THAN 33 PERCENT OF GRASS-LEAF GROWTH IN INITIAL OR SUBSEQUENT MOWINGS. DO NOT DELAY MOWING UNTIL GRASS BLADES BEND OVER AND BECOME MATTED. DO NOT MOW WHEN GRASS IS WET. SCHEDULE INITIAL AND SUBSEQUENT MOWINGS TO MAINTAIN THE FOLLOWING GRASS HEIGHT: MOW GRASS 2 INCHES HIGH IN SPRING AND FALL AND 2 1/2 INCHES HIGH IN THE SUMMER. TRIM AND EDGE ALONG WALKS, WALLS, ETC.
- 10. LAWN POSTFERTILIZATION: APPLY FERTILIZER AFTER INITIAL MOWING AND WHEN GRASS IS DRY.
- 11. APPLY FERTILIZER 5 TIMES PER SEASON, SPRING: FERTILIZER PLUS WEED CONTROL FOR CRABGRASS, LATE SPRING: FERTILIZER PLUS WEED CONTROL FOR BROADLEAF WEEDS, SUMMER: FERTILIZER, EARLY FALL: FERTILIZER PLUS WEED CONTROL, LATE FALL: WINTERIZER.
- 12. AERATE LAWN A MINIMUM OF ONCE PER YEAR.
- 13. TURFGRASS SPECIES: GRASS SPECIES, BOTH SOD AND SEED, AS FOLLOWS, WITH NOT LESS THAN 95 PERCENT GERMINATION, NOT LESS THAN 85 PERCENT PURE SEED, AND NOT MORE THAN 0.5 PERCENT WEED SEED: MOST CURRENT AVAILABLE KANSAS STATE FESCUE TRIAL MIX, RATED IN TOP 1/3 OF VARIETIES TESTED FOR VISUAL APPEARANCE AVERAGE THROUGHOUT THE YEAR OR APPROVED EQUAL.
- 14. TOPSOIL: ASTM D 5268, PH RANGE OF 5.5 TO 7, A MINIMUM OF 4 PERCENT ORGANIC MATERIAL CONTENT: FREE OF STONES 1 INCH OR LARGER IN ANY DIMENSION AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH.
- 15. TOPSOIL SOURCE: REUSE SURFACE SOIL STOCKPILED ON-SITE. VERIFY SUITABILITY OF STOCKPILED SURFACE SOIL TO PRODUCE TOPSOIL. CLEAN SURFACE SOIL OF ROOTS, PLANTS, SOD, STONES, CLAY LUMPS, AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH. SUPPLEMENT WITH IMPORTED OR MANUFACTURED TOPSOIL FROM OFF-SITE SOURCES WHEN QUANTITIES ARE INSUFFICIENT. OBTAIN TOPSOIL DISPLACED FROM NATURALLY WELL-DRAINED CONSTRUCTION OR MINING SITES WHERE TOPSOIL OCCURS AT LEAST 4 INCHES

DEEP; DO NOT OBTAIN FROM BOGS OR MARSHES. TOPSOIL TO BE PLACED IN AN 8" LIFT IN ALL PLANTING BED AREAS.

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16. AMEND SOIL AS NECESSARY TO MEET TOPSOIL REQUIREMENTS OF ASTM D 5268.

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- 17. EXAMINE AREAS TO RECEIVE LAWNS AND GRASS FOR COMPLIANCE WITH REQUIREMENTS AND OTHER CONDITIONS AFFECTING PERFORMANCE. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
- 18. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES, TREES, SHRUBS, AND PLANTINGS FROM DAMAGE CAUSED BY PLANTING OPERATIONS. PROVIDE EROSION-CONTROL MEASURES TO PREVENT EROSION OR DISPLACEMENT OF SOILS AND DISCHARGE OF SOIL-BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES AND WALKWAYS. ELIMINATE COMPETING GRASS VEGETATION IN ALL AREAS TO BE IMPROVED WITH "ROUNDUP" OR AN APPROVED EQUAL ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. SEVERAL APPLICATIONS MAY BE NECESSARY. WORK TO REMOVE COMPETING VEGETATION, SHALL BEGIN SEVERAL MONTHS BEFORE SODDING OPERATIONS COMMENCE.
- 19. LIMIT SOD SUBGRADE PREPARATION TO AREAS TO BE PLANTED THE SAME OR FOLLOWING DAY. NEWLY GRADED AREAS: LOOSEN SUBGRADE TO A MINIMUM DEPTH OF 6 INCHES. REMOVE STONES LARGER THAN 1 INCH IN ANY DIMENSION AND STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEOUS MATTER AND LEGALLY DISPOSE OF THEM OFF OWNER'S PROPERTY.APPLY FERTILIZER DIRECTLY TO SUBGRADE BEFORE LOOSENING. SPREAD TOPSOIL IF NECESSARY, APPLY SOIL AMENDMENTS AND FERTILIZER ON SURFACE, AND THOROUGHLY BLEND.
- 20. LEGALLY DISPOSE OF WASTE MATERIAL, INCLUDING GRASS, VEGETATION AND TURF OFF OWNER'S PROPERTY.
- 21. PRIOR TO LAYING SOD THE CONTRACTOR SHALL DEMONSTRATE TO THE OWNER AND OWNER'S REPRESENTATIVE THAT WATER IS AVAILABLE AND IN A WORKING ORDER TO ADEQUATELY COVER ALL SODDED AREAS. THE LANDSCAPE CONTRACTOR MUST COORDINATE WITH THE GENERAL CONTRACTOR AND OWNER, TO CONNECT TO BUILDING HOSE BIBS OR OTHER MEANS PRIOR TO SOD INSTALLATION. LAY SOD WITHIN 24 HOURS OF HARVESTING, DO NOT LAY SOD IF DORMANT OR IF GROUND IS FROZEN OR MUDDY.
- 22. LAY SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD; DO NOT STRETCH OR OVERLAP. STAGGER SOD STRIPS OR PADS TO OFFSET JOINTS IN ADJACENT COURSES. AVOID DAMAGE TO SUBGRADE OR SOD DURING INSTALLATION. TAMP AND ROLL LIGHTLY TO ENSURE CONTACT WITH SUBGRADE, ELIMINATE AIR POCKETS, AND FORM A SMOOTH SURFACE. WORK SIFTED SOIL OR FINE SAND INTO MINOR CRACKS BETWEEN PIECES OF SOD; REMOVE EXCESS TO AVOID SMOTHERING SOD AND ADJACENT GRASS. DO NOT ALLOW EDGES OF SOD TO TURN UP WHEN INSTALLING.LAY SOD ACROSS ANGLE OF SLOPES EXCEEDING 1:3. ANCHOR SOD ON SLOPES EXCEEDING 1:6 WITH WOOD PEGS OR STEEL STAPLES SPACED AS RECOMMENDED BY SOD MANUFACTURER BUT NOT LESS THAN 2 ANCHORS PER SOD STRIP TO PREVENT SLIPPAGE.SATURATE SOD WITH FINE WATER SPRAY WITHIN TWO HOURS OF PLANTING. DURING FIRST WEEK, WATER DAILY OR MORE FREQUENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO A MINIMUM DEPTH OF 1-1/2 INCHES BELOW SOD. SATISFACTORY SODDED LAWN: WITHIN 60 DAYS AND AT END OF MAINTENANCE PERIOD, A HEALTHY, WELL-ROOTED, EVEN-COLORED, VIABLE LAWN HAS BEEN ESTABLISHED, FREE OF WEEDS, OPEN JOINTS, BARE AREAS, AND SURFACE IRREGULARITIES.
- 23. REESTABLISH LAWNS THAT DO NOT COMPLY WITH REQUIREMENTS AND CONTINUE MAINTENANCE UNTIL LAWNS ARE SATISFACTORY. SATISFACTORY SODDED OR SEEDED LAWN: WITHIN 60 DAYS AND AT END OF MAINTENANCE PERIOD, A HEALTHY, UNIFORM, CLOSE STAND OF GRASS HAS BEEN ESTABLISHED, FREE OF WEEDS AND SURFACE IRREGULARITIES, WITH COVERAGE EXCEEDING (90 PERCENT OVER ANY 10 SQ. FT. AND BARE SPOTS NOT EXCEEDING 5 BY 5 INCHES). CONTRACTOR SHALL BE RESPONSIBLE FOR IRRIGATION AND ESTABLISHMENT OF TURF GRASS UNTIL WRITTEN ACCEPTANCE IS RECEIVED FOLLOWING APPROVAL BY THE SCHOOL DISTRICT.
- 24. PROMPTLY REMOVE SOIL AND DEBRIS CREATED BY LAWN WORK FROM PAVED AREAS. CLEAN WHEELS OF VEHICLES BEFORE LEAVING SITE TO AVOID TRACKING SOIL ONTO ROADS, WALKS, OR OTHER PAVED AREAS. ERECT BARRICADES AND WARNING SIGNS AS REQUIRED TO PROTECT NEWLY PLANTED AREAS FROM TRAFFIC. MAINTAIN BARRICADES THROUGHOUT MAINTENANCE PERIOD AND REMOVE AFTER LAWN IS ESTABLISHED. REMOVE EROSION CONTROL MEASURES AFTER GRASS ESTABLISHMENT PERIOD.

1. THE CONTRACTOR SHALL SEED, MULCH, OR OTHERWISE STABILIZE ANY DISTURBED AREA WHERE THE LAND DISTURBANCE ACTIVITY HAS CEASED FOR MORE THAN 14 DAYS. INITIAL STABILIZATION ACTIVITIES SHALL BE COMPLETED WITHIN 14 DAYS AFTER SOIL DISTURBING ACTIVITIES HAVE CEASED. ALL SEEDING ACTIVITY SHALL INCLUDE MULCHING OR EQUIVALENT SOIL STABILIZING BMP MEASURE OF THE DISTURBED AREA. THE CONTRACTOR SHALL PERFORM INSPECTIONS OF EROSION AND SEDIMENT CONTROL MEASURES AT LEAST ONCE PER WEEK AND WHENEVER A RAINFALL TOTAL OF 0.5 INCHES OR GREATER IS OBSERVED BASED ON A SINGLE MONITORING EVENT; OR BASED ON THE CUMULATIVE TOTAL OF TWO CONSECUTIVE MONITORING EVENTS WHEN THE RAINFALL TOTAL OF THE FIRST MONITORING EVENT IS LESS THAN 0.5 INCHES. THE CONTRACTOR SHALL MAINTAIN AN INSPECTION LOG INCLUDING THE INSPECTOR'S NAME, DATE OF INSPECTION, OBSERVATIONS AS TO THE EFFECTIVENESS OF THE EROSION AND SEDIMENT CONTROL MEASURES, ACTIONS NECESSARY TO CORRECT DEFICIENCIES, WHEN DEFICIENCIES ARE CORRECTED, AND THE SIGNATURE OF THE PERSON PERFORMING THE INSPECTION. CONTRACTOR SHALL ADD EROSION CONTROL MEASURES AS NECESSARY TO CONTROL SEDIMENT RUNOFF FROM THE SITE, ADDITIONAL

2. CONTRACTOR TO HAVE A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) ON SITE AT ALL TIMES. INSPECTION LOGS AND ANY CHANGES TO EROSION CONTROL MEASURES SHALL BE ADDED TO THE SWPPP. 3. CONCRETE WASH OR RINSE WATER FROM CONCRETE MIXING EQUIPMENT, TOOLS AND/OR READY-MIX TRUCKS, TOOLS, ETC. MAY NOT

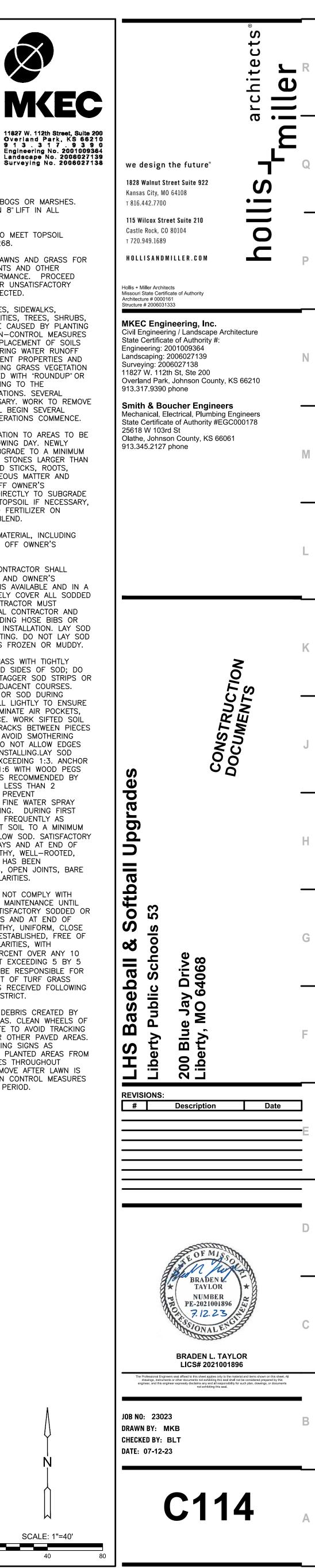
BE DISCHARGED INTO OR BE ALLOWED TO RUN DIRECTLY INTO ANY EXISTING WATER BODY OR STORM INLET. ONE OR MORE LOCATIONS FOR CONCRETE WASH OUT WILL BE DESIGNATED ON SITE, SUCH THAT DISCHARGES DURING CONCRETE WASHOUT WILL BE CONTAINED IN A SMALL AREA WHERE WASTE CONCRETE CAN SOLIDIFY IN PLACE AND EXCESS WATER EVAPORATED OR INFILTRATED

4. CHEMICALS OR MATERIALS CAPABLE OF CAUSING POLLUTION MAY ONLY BE STORED ONSITE IN THEIR ORIGINAL CONTAINER. MATERIALS STORED OUTSIDE MUST BE IN CLOSED AND SEALED WATER-PROOF CONTAINERS AND LOCATED OUTSIDE OF DRAINAGE WAYS OR AREAS SUBJECT TO FLOODING. LOCKS AND OTHER MEANS TO PREVENT OR REDUCE VANDALISM SHALL BE USED. SPILLS WILL BE REPORTED AS REQUIRED BY LAW AND IMMEDIATE ACTIONS TAKEN TO CONTAIN THEM.

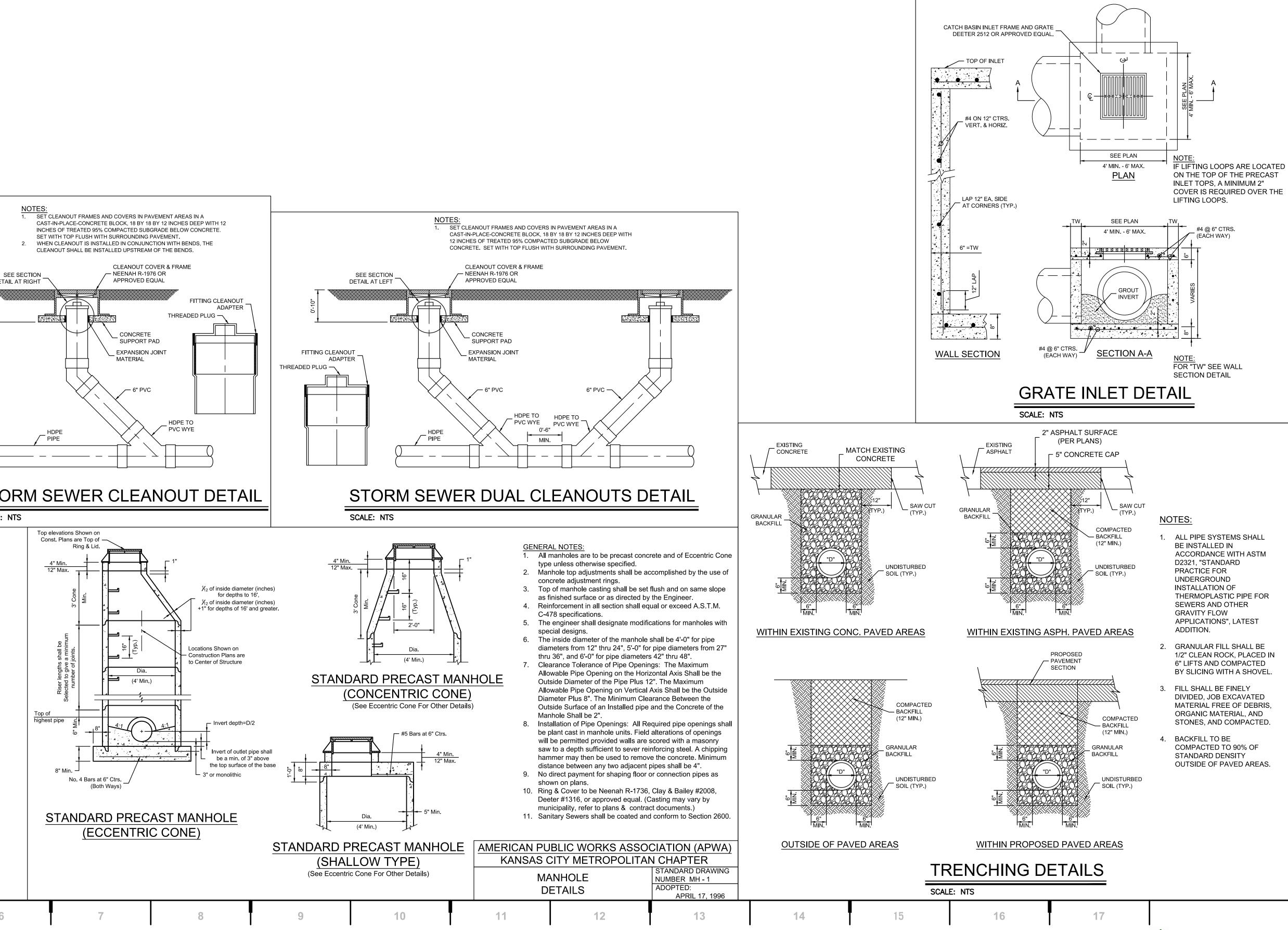
7. CONTRACTOR TO COMPLY WITH ALL APPLICABLE REQUIREMENTS OF CITY, STATE, AND FEDERAL REGULATIONS FOR EROSION CONTROL.

8. ALL DISTURBED AREAS SHALL BE PERMANENTLY SOD UPON COMPLETION OF PROJECT. REFER TO FESCUE TURF SOD NOTES FOR INSTALLATION INSTRUCTIONS. REMOVE S75 TRM FOR SOD PLACEMENT AS NEEDED. 9. REMOVE SEDIMENT AND DEBRIS FROM ALL STORM SEWER SYSTEM STRUCTURES AND PIPES ON-SITE, INCLUDING PERFORATED

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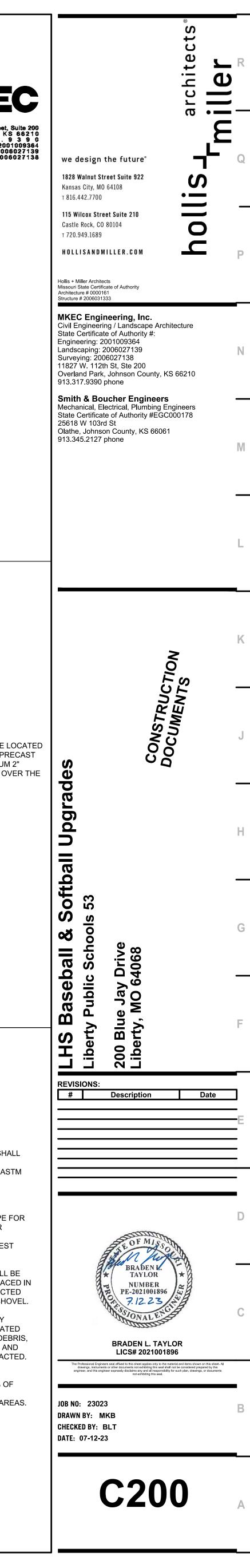


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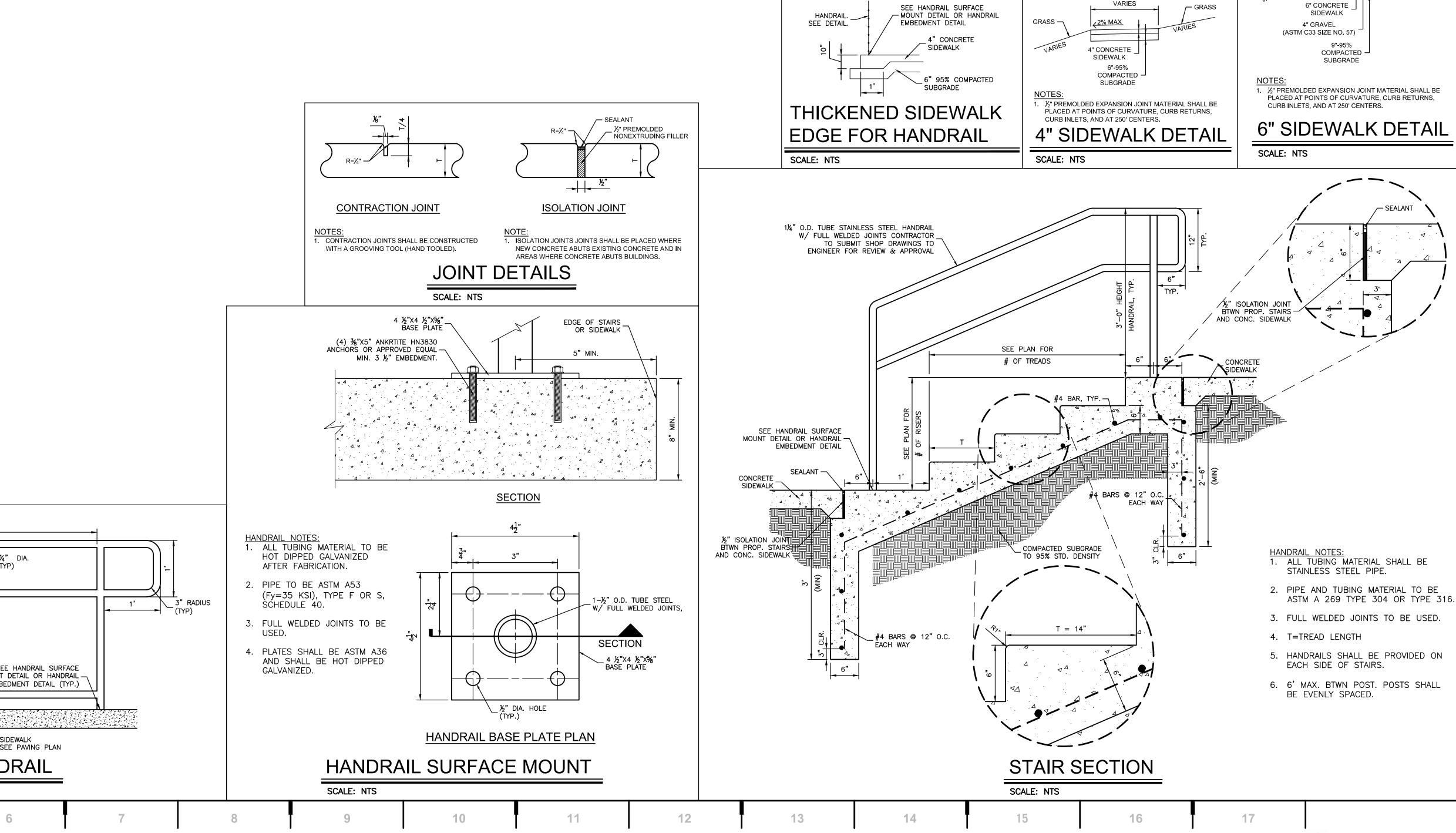


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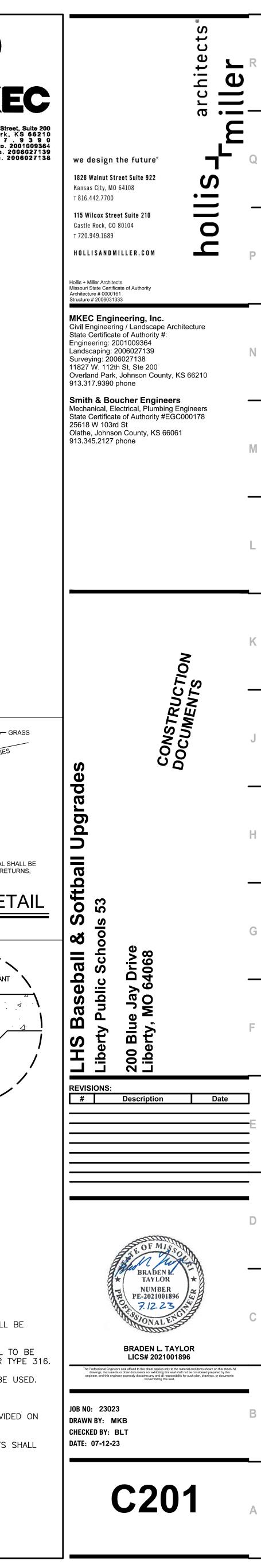
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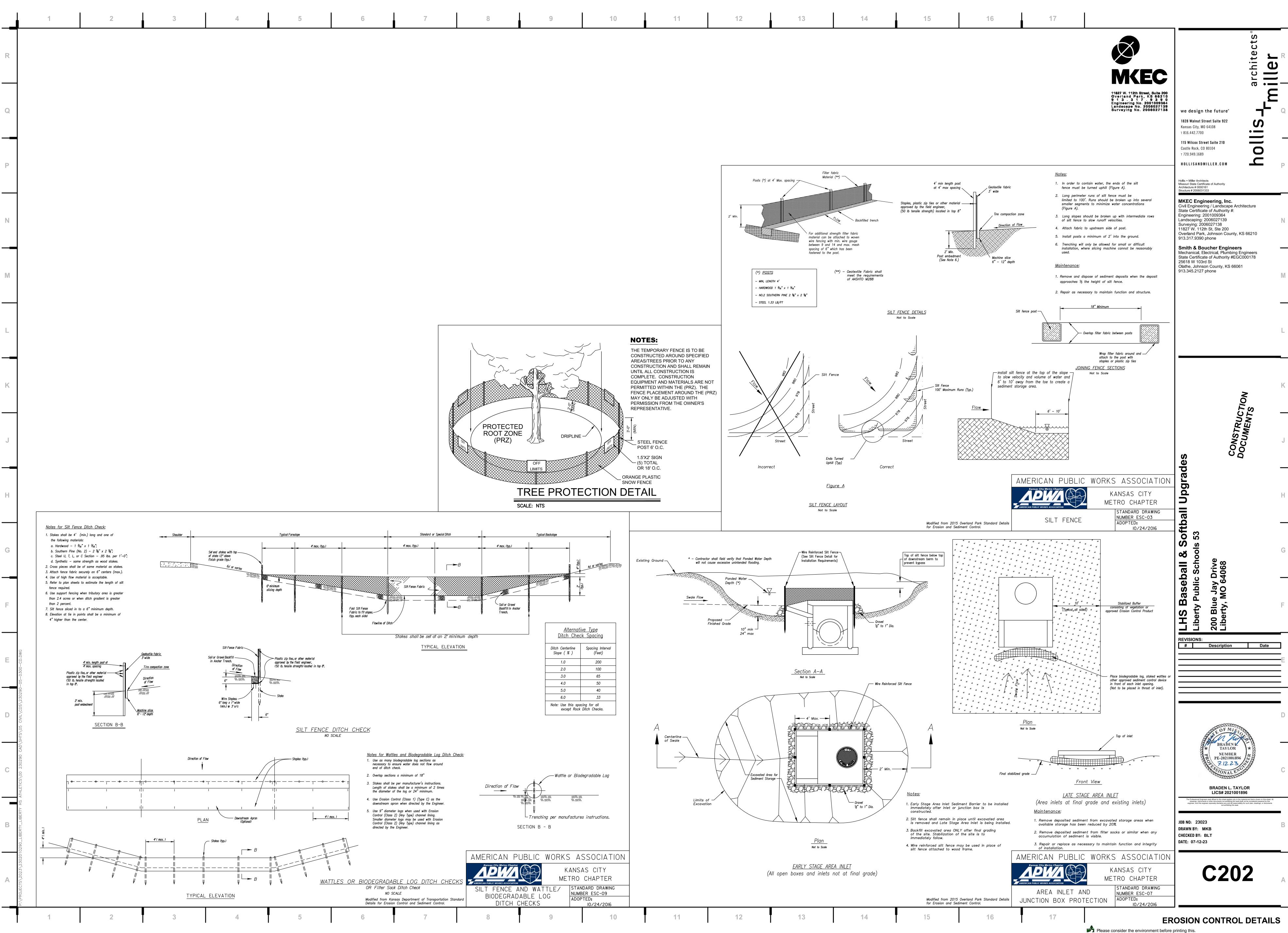
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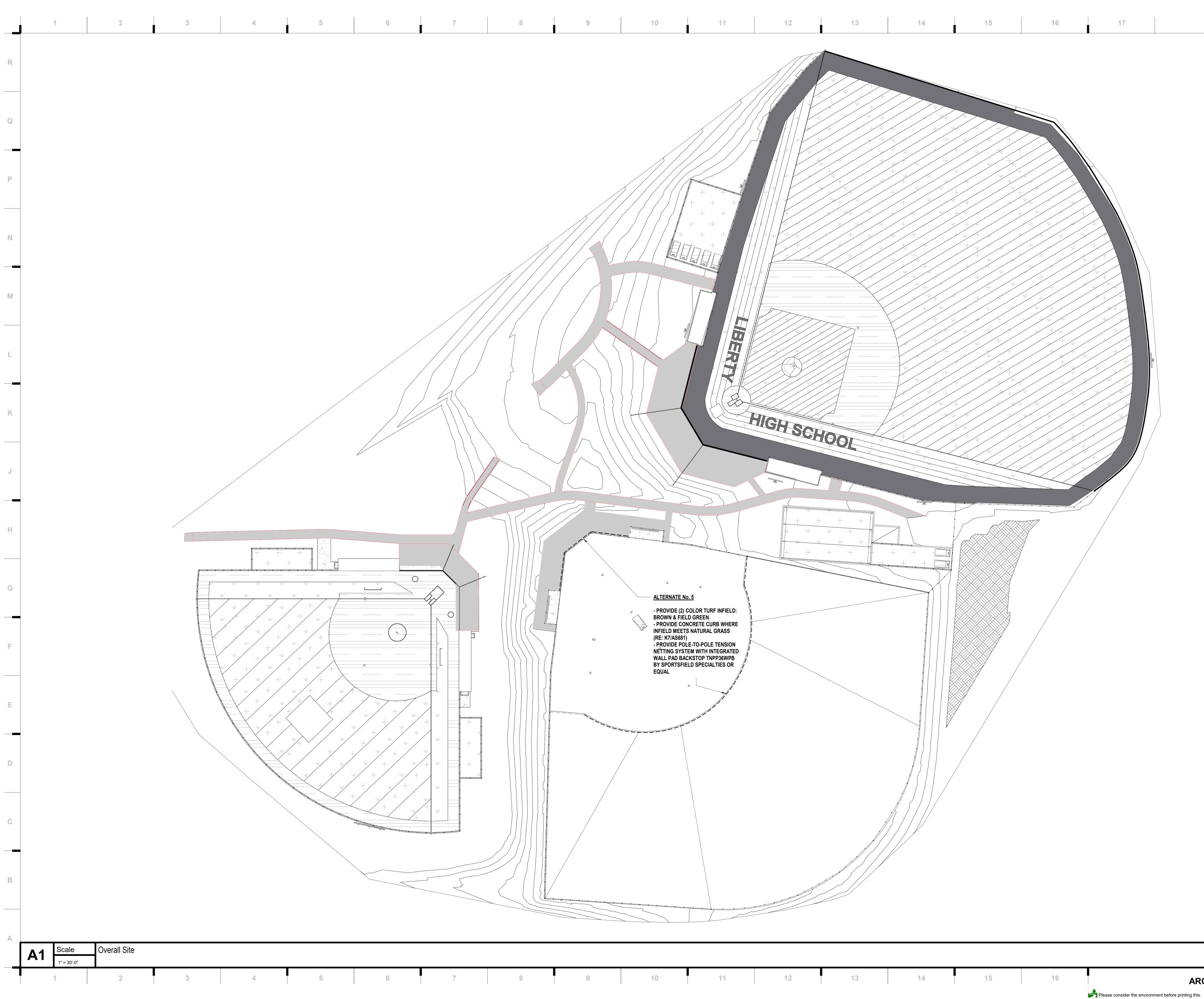
- GRASS

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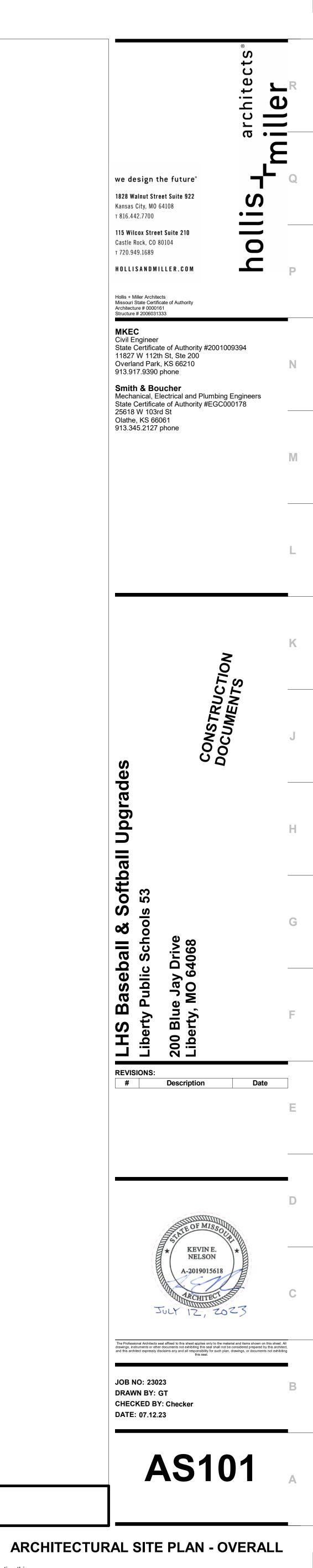


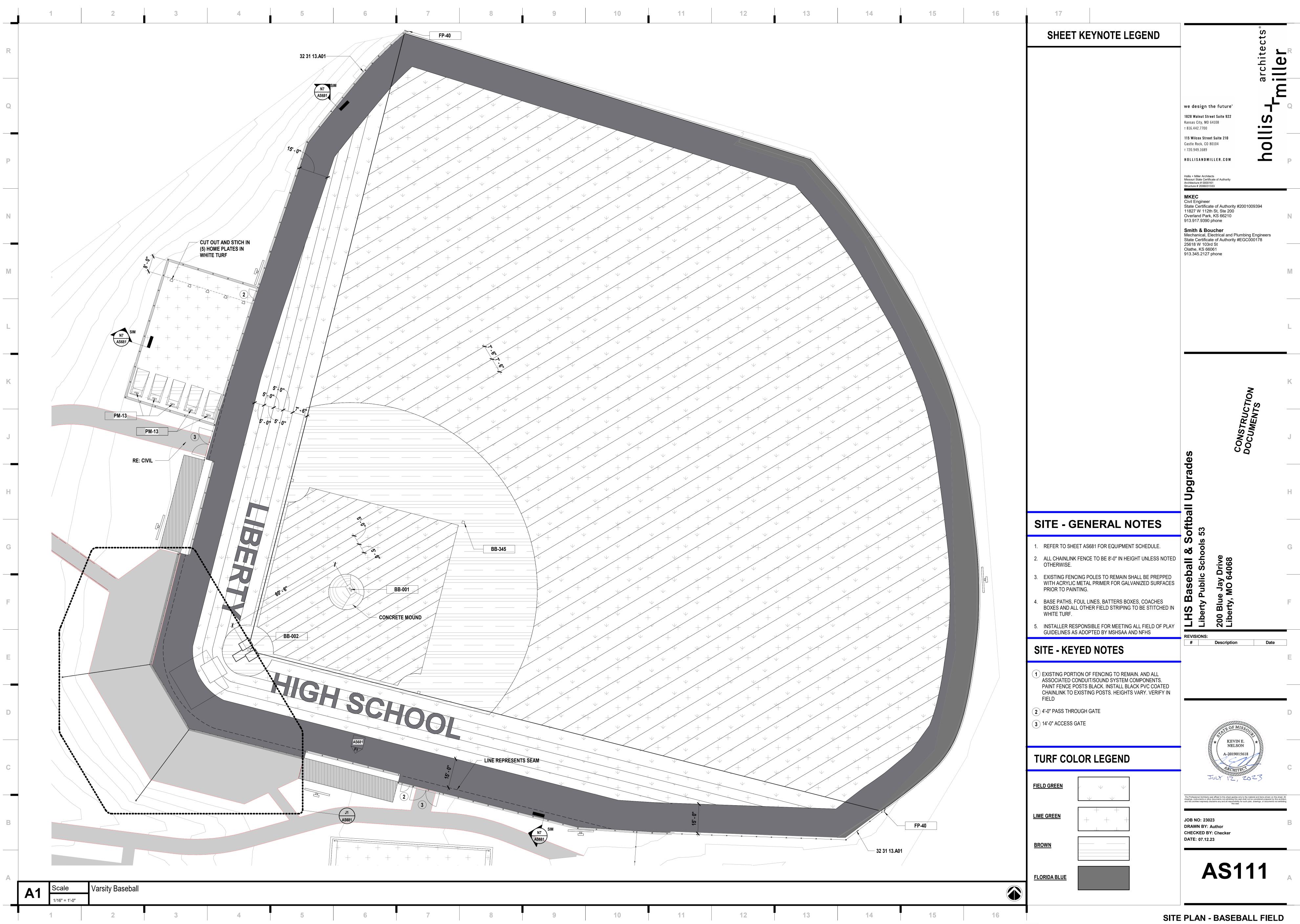
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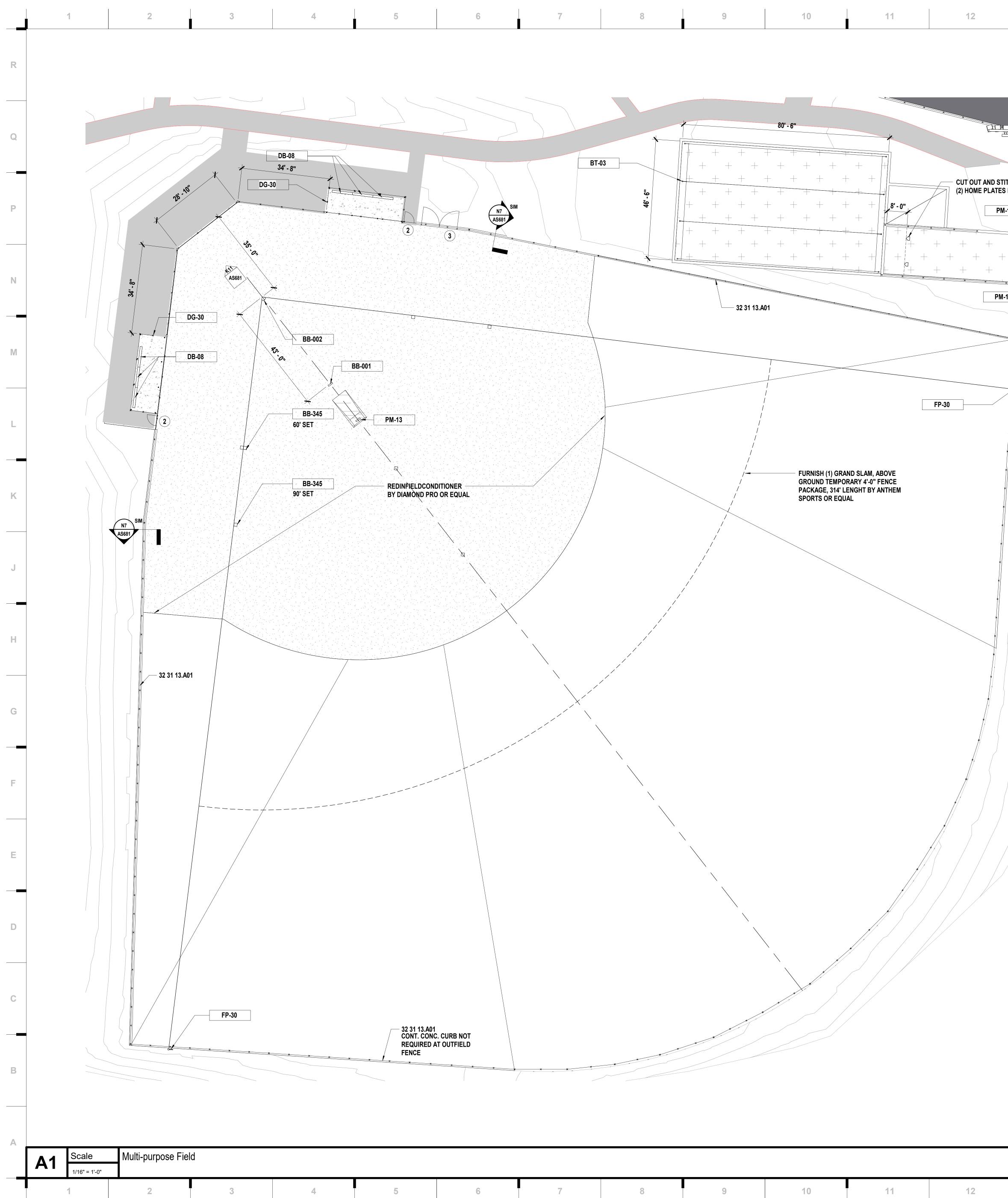


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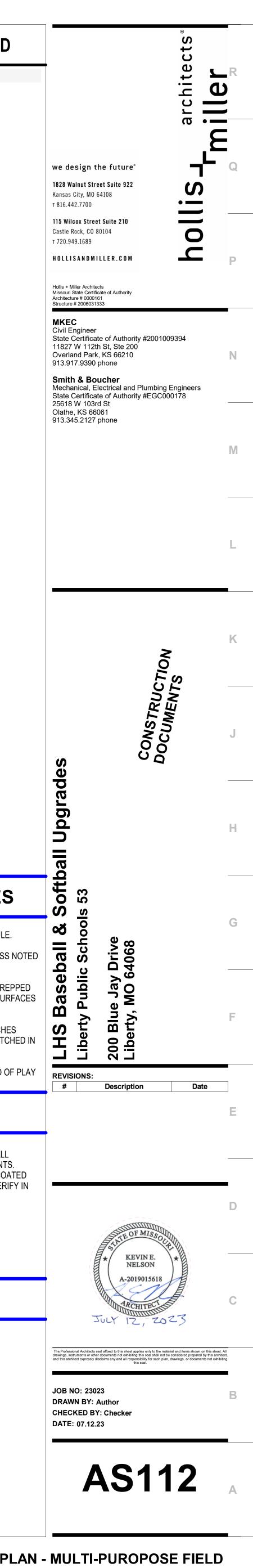


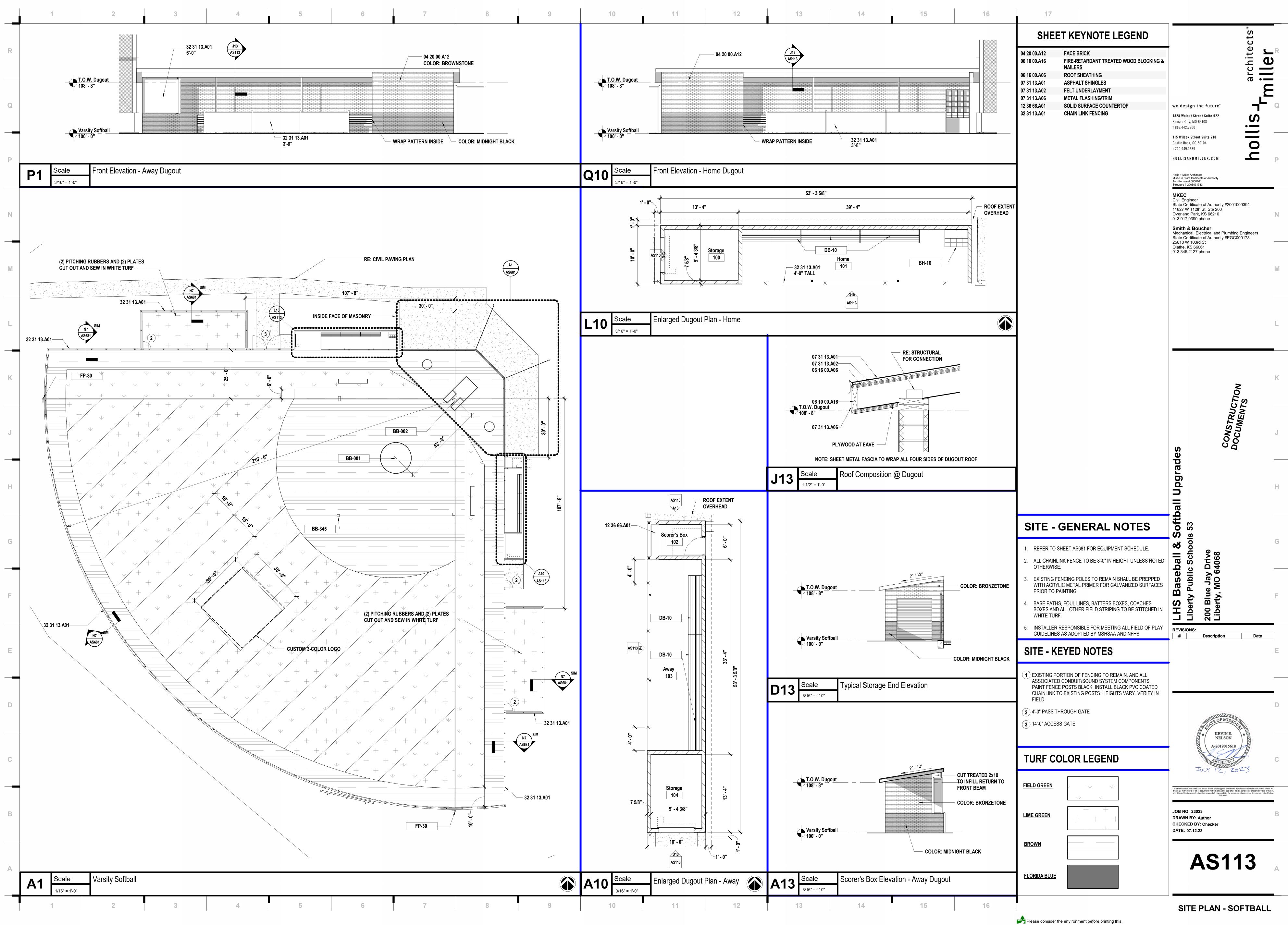
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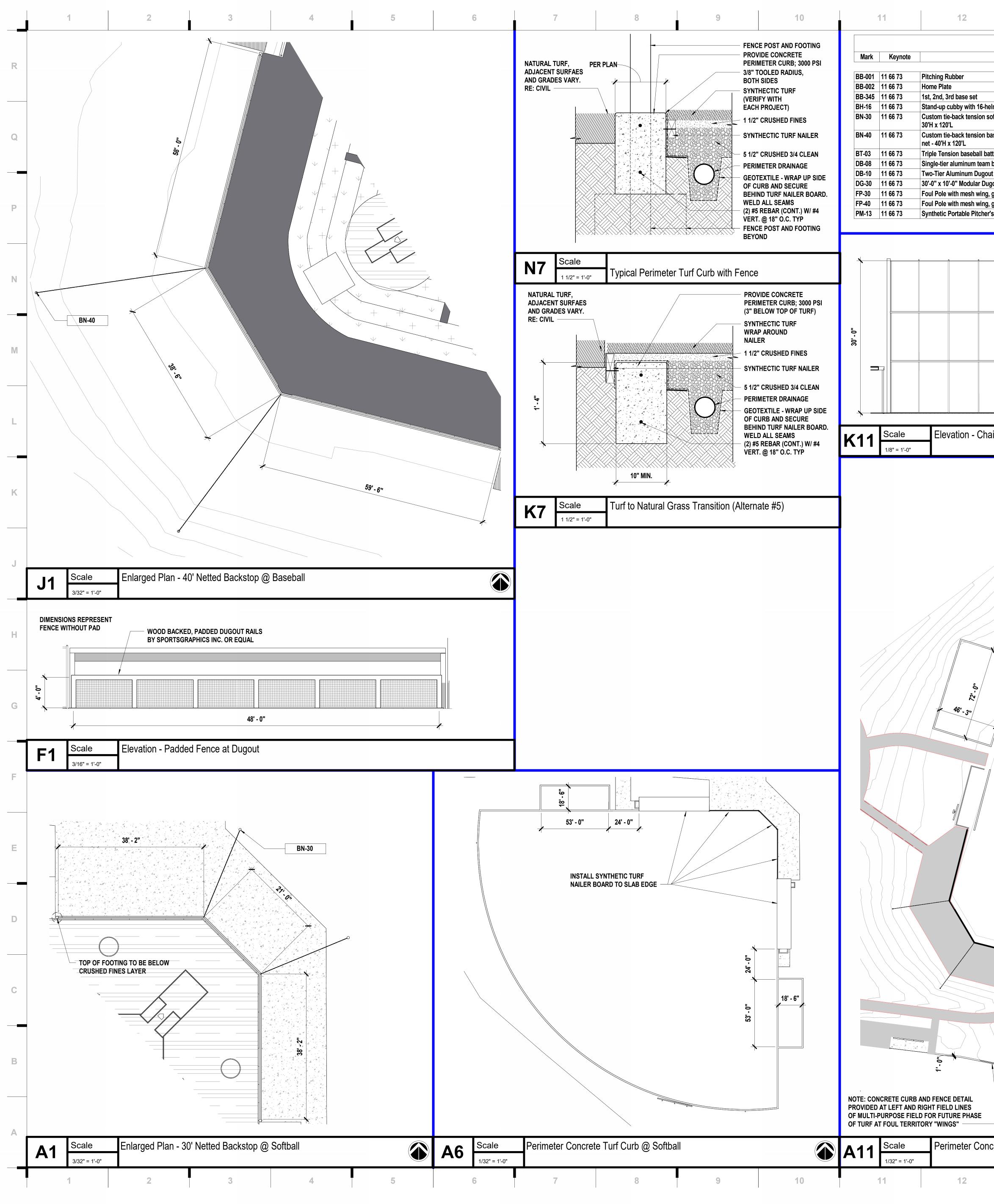


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	-			SHEET	KEYNOTE LEC	GEND
	- 32 31 13.A01			SHEET 32 31 13.401 32 31 13.401 32 31 13.401 SITE - G 1. REFER TO SHI 2. ALL CHAINLINI OTHERWISE. 3. EXISTING FEN WITH ACRYLIC PRIOR TO PAIL 4. BASE PATHS, BOXES AND AI WHITE TURF. 5. INSTALLER RE GUIDELINES AND SITE - KEE (1) EXISTING POR ASSOCIATED C PAINT FEINCE F CHAINLINK TO FIELD 2. 4'-0" PASS THR 3. 14'-0" ACCESS	CHAIN LINK FENCING	AND ALL WPONENTS L FIELD C SCHEDULE SCH
13	14	15	16	<u>FIELD GREEN</u>	\checkmark \downarrow \downarrow	







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UTILIZE EXISTING CHAMPION WALL FOOTER	
UTILIZE EXISTING CHAMPION WALL FOOTER	
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Perimeter Concrete Turf Curb @ Baseball

SCHEDULES AND MANUFA	16	15	14	13	
Please consider the environment before printing this.					



			1	2	3	4		5		6
	A.	Bui	Iding Code							am located at first cou
		1.		struction shall conform to the 20	18 International Building Code (I	BC) as amended by the City of Liberty,				Il have reinforcement (
R	-	-	Missouri.						I. Joint rei at contro	nforcing and intermed bl joints.
	В.	Des	sign Loads	upod to regist the most aritical los	do resulting from the basis load	combinations outlined in costion 1605			m. Reinford	ing lap splice lengths
		١.	I his project is desig of the code.	וויפע נט ופאואנ נחפ MOSI Critical IO	aus resulting hom the dasic load	combinations outlined in section 1605		2.	Vertical Rein	nforcement:
		2.	Dead Loads	ted equipment weights used for	design are indicated on the contr	act documents. The Contractor shall				masonry wall elevatio
Q				veights for all roof mounted equi	oment for review by the Engineer 25 psf (Includes 10 psf col				ζ, γ	an additional vertical r
		3.	Live Loads			,				ll masonry openings g ement in two adjacent
			a. Code Loads 1. Roof		30 psf				the full h	eight of wall UŃO. Se bars in all above. Dow
				ction has not been utilized.						the concrete foundation
Ρ		4.	a. Ground snow lo		p _g = 20 psf,					all vertical bars from th
			 b. Exposure Factor c. Importance Factor d. Thermal Factor 	ctor	$C_e = 1.00$ $I_s = 1.00$ $C_t = 1.10$					einforcement:
			 d. Thermal Factor e. Roof Slope Fac f. Flat Roof Snow 	ctor	$C_{s} = 1.10$ $C_{s} = 1.0$ $p_{f} = 15.4 \text{ psf}$					ct bond beams using (bond beams at the bot
			g. Minimum Snow		$p_m = 22 \text{ psf}$					bond beam below all i
Ν		5.	Wind - The wind loa	ad is in accordance with ASCE 7	with the following criteria:					nue bond beam reinfo
IN			a. Basic wind speb. Allowable Stress	eed ss Design Wind Speed	V = 110 mph V _{asd} = 86 mph					.k of these notes and
			c. Risk Categoryd. Exposure Cate	rgory	II C					horizontal joint reinfor econd block course ab
			e. Internal Pressu f. Components &	ure Coefficient Cladding Force	± 0.55 per code			4.	Control Joir	t:
		6.		-	the general building code with the	e following criteria:			a. Use pre	molded control joint ke
Μ			a. Importance Fac b. Risk Category		I _E = 1.00 II					control joint where indi
			d. 1.0 sec Spectra	al Response Acceleration al Response Acceleration	$S_{S} = 9.4\%$ $S_{1} = 6.9\%$				inte	ate approximately 1/2 rior walls; 15'-0" in ex
				Spectral Response Acceleration					3. Loo	bid creating slip planes ate above expansion
			h. Seismic Desigr		В					not provide intermedia
L		7		Force Resisting System	Ordinary reinforced masor				1. Pro	on/Contraction Joints: vide continuous comp
		7.	a. Rainfall Intensi	ty (15 minute)	al building code and ASCE 7 with 7.59 in./hr	the following criteria:		5.	thic Lintels:	kness as the joint.
		_	b. Rainfall Intensi	ty (60 minute)	3.66 in./hr				a. Provide	masonry lintels above
	C.	Fol	Indations					6.	Grout:	
		1.	Geotechnical Repor a. A Geotechnica	rt I Engineering Report was not pro	ovided for this project.					all be consolidated by
K		2.		rench Footing and Grade Beams			-			olid all units below finis
				ndations have been designed to 00 psf based on presumptive val		eered fill for a net allowable bearing	G.		ctural Steel	
	D.	Со	ncrete						Institute of St	cation and erection sh eel Construction (AIS
		1.	All concrete and rei	nforcing details shall conform to	ACI 318 and CRSI "Manual of St	andard Practice".				sign shall be per Allov
J		2.	Strength - The follov a. Interior flatwork	wing areas shall have a minimun	n 28 day compressive strength: 4000 psi					s, angles and plates
			 b. Exterior flatwor c. Footing and grades 	k concrete:	4000 psi 4000 psi 4000 psi				c. Round h	hollow structural shap ollow structural shape ion material
		3.	0 0			ld at the batch plant. The workability			Anchor Rods	
		01	-	-	g agents and/or super-plasticizing			•••		rods shall conform to <i>I</i>
Н		4.	Reinforcing a. Grade							plywood templates sh nd below the template
			 Typical rei Welded rei 		ASTM A615, Grade 60 ASTM A706			4.		ng is not allowed in th
					cement shall be per the Typical F awings and specifications. Lap v	Reinforcing Splice Length Table velded wire reinforcing one full mesh				or shall supply all misc
			space plus 2 in c. Welded Wire R		ASTM A1064					s not limited to, shelf a
			bearing co	onditions. Pulling reinforcing up	during concrete placement is not			6.	The Contract	or shall provide an ad
G			OC. Pullir	ng reinforcing up during concrete	placement is not allowed.	chairs with a maximum spacing of 4'-0"				100, 055000) for steel y unused portion of th
			similar conditio	ons located elsewhere on the pro	ject.	unreinforced. Reinforce sections with	H.	Post	t Installed Ar	chors
		F			be considered secondary reinfor	cing only.				lled anchors shall be c
		5.		against and exposed to earth sed to earth or weather #5 and s	3" maller 1 ½"				a. Install e	lled anchors shall be in xpansion anchors per
F			•	sed to earth or weather #6 and la					b. The em	ract documents. pedment of all post ins
		6.		s, walls, foundations, etc. shall h e member. Extend reinforcing 2'-		h side, in each corner of the opening		•		and the deepest part
		7.		·		forcing to be used at the direction of				anchors shall perforn anchors embedded in
			the Structural engine	eer. The Contractor shall includ	e all costs associated with mater				All adhesive Adhesive An	
Е		8.	Aluminum items sha	all not be embedded in concrete.				5.	All anchors s	hall be stainless steel
	F.	Ma	sonry				I.	Woo	od	
		1.	General:							ning shall be designed ification (NDS) For Wo
			a. Engineered ma 402/602, Lates	, ,	e with "Building Code Requirement	nts for Masonry Structures" (TMS			0	ning shall be Douglas
			b. Materials:						Plywood	
D			Minimum Com	rick, ASTM C-652 pressive Strength = 9000 PSI					a. Stagger	panel ends of roof she shall be used for all ro
			Grout: ASTM C	(for reinforced masonry) C476, Minimum Compressive str	ength = 3000 PSI			4.		ed LVL Lumber shall h
			· ·	eel: ASTM A615, Grade 60					a. Fb = 26 b. Fv = 28	
				be running bond type constructio					c. E = 1,90 d. Fcll = 25	0,000 psi 510 psi
С				ry cells with reinforcing or ancho	·	lowels from foundation			e. Fc^ = 75 f. G = 125	•
					nave full contact lap splices with one solution solution is a set of the solution of the solut			5.	Reference IB	C Table 2304.10.1 for
						nters. Bars shall be secured per CRSI in-place			•	ember that rests on or
			• •	te or grout pour.	. Jonoroto or grout is profilibileu. I	Laro onan bo ocoarea per ortor III-piace			treated.	deers t
В				rry bond beams shall be knockou cing and grout installation.	it type. Portions of bond beam th	at are knocked out shall be removed			shall be capa	od connectors shall pe ble of resisting the co
-					ontinuous through lintels and sha	ll extend the entire height of the wall.				r to loading the connec
									perpendicula	ng shall be OSB panel r to the supports, stag
									and 12" on c	ium penetration) 2" on enter at intermediate s t all plywood boundari
-									ZA DIUCKING A	t all plywood boundari
Α										

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course above and below bearing elevations and at top of walls are structural bond beams	Miscellaneous	Symbols	
nt continuous through control joints. Iediate bond beam (those not included in Note 1.j above) reinforcing shall be discontinuous	 Periodic site observation by field representatives of Hollis and Miller Architects, if provided, is solely for the purpose of determining if the work of the contractor is proceeding in general accordance with the structural contract documents. This limited site observation should not be construed as exhaustive or continuous to check the quality or quantity of the work, but rother periodic in an effort to guard the owner against defeate or deficiencies in the work of the contractor. Observations by the 	& @ A	And At
hs (UNO) per schedule on S54# series of sheets.	rather periodic in an effort to guard the owner against defects or deficiencies in the work of the contractor. Observations by the engineer shall not be considered inspections, and in no way relieves the contractor of any requirements of the contract documents.	A ADDL	Axial Load Additional
ations for individual structures for vertical reinforcement, unless otherwise indicated, provide he wall at the following spacing: 48" OC.	2. The building is designed to function as a unit upon completion and is not structurally stable until all connections, framing, shearwalls, permanent bracing, metal decking, and exterior load bearing walls (where applicable) are complete and have achieved their design strength. Contractor is solely responsible for maintaining structural stability during erection and supervised as the result of the res	AFF AHU ALT ALUM	Above Finished Floor Air Handling Unit Alternate Aluminum
al reinforcement at each side of control joints, at intersection of exterior walls, and at each gs greater than 10" in width. In openings wider than 24" provide additional vertical ent cells on each side of the opening. Added vertical reinforcement shall be continuous for See add bar detail on this drawing. Provide foundation dowel same size and location as owel bars shall be located at each vertical wall reinforcement and shall extend a minimum of	 construction and is responsible for furnishing all temporary bracing and/or support that may be required as the result of the contractor's construction methods and/or sequences. Temporary bracing plans should include installation and removal sequencing as applicable. Temporary bracing systems are not to be removed until structural work is complete. 3. The contractor shall not alter or modify work shown on the structural drawings without receiving written approval from the engineer. When conflicts occur between the drawings and specifications, the strictest interpretation shall govern. 	APPROX AR ARCH ATS	Approximate Anchor Rod Architect/Architectural D Anchor Tie-Down System
ation wall. n the bottom course through the top most bond beam.	4. The contract structural drawings and specifications represent the finished structure, and except where specifically shown, do not indicate the method or means of construction. The contractor shall supervise and direct the work and shall be solely responsible for all construction means, methods, procedures, techniques, sequence, and safety precautions and programs. The engineer will not be responsible for the acts or omission of the contractor, subcontractor, or any other persons performing	B BAL BL BLDG BLKG	Balance Brick Ledge Building Blocking
ng (1) #5 horizontal in 8" Clay Masonry.	 any of the work, or for the failure of any of them to carry out the work in accordance with the contract documents. 5. See architectural, mechanical, electrical, and civil drawings for other pertinent information related to the structural work and 	BM BO BOD	Beam Bottom of Bottom of Deck
bottom-most course and the top-most.	coordinate as required. These structural drawings are intended to be utilized as a complete set of documents that represent the building's structural systems. No single sheet or series of sheets is intended to "stand alone". Typical details may or may	BOS BOS BOT	Bottom of Steel Bottom
all masonry openings and extend a minimum of 16" beyond each side of opening. nforcement at all wall control joints except at elevated floor and roof levels and as indicated and S54# series of sheets.	not be cut at specific locations throughout the drawings, but are to be applied where required. These structural drawings are intended to be included in a complete set of construction documents, including but not limited to, architectural drawings, civil drawings, and mechanical/electrical/plumbing drawings. Contractor shall verify coordination of these drawings with contents of above sets specified and only proceed with bidding and construction after such has taken place.	BRG BS BTWN	Bearing Both Sides Between
forcement at every other course or a maximum 16" spacing. Begin joint reinforcing at the above floor slab	 All existing field and building conditions shall be verified by the Contractor before any other work shall begin. Coordinate with Engineer of Record regarding any discrepancy with existing building dimensions. 	C C CANT	Compression Cantilever
t key inserts with sash block; use corrugated metal separator at bond beam locations.	 Submittals Submittals are to be based upon the latest submitted contract documents. This includes all addendums, Architectural Supplemental Instructions (ASIs), Structural Supplemental Drawings (SSD's), and Requests for Information (RFI's). 	CFSF CIP CJ	Cold-Formed Steel Frami Cast-in-Place Control Joint
ndicated on the floor plans; or when not indicated as listed below:	 b. Submittals shall be original documents. Shop drawings shall not be a duplication, in any way,of the contract documents. This includes, but is not limited to, photocopies, electronic drawing copying or electronic scanning. Any submitted shop 	CJP CL	Complete Joint Penetrati Center Line
1/2 the wall height from wall intersections. Locate at spacing not greater than 24'-0" in exterior walls UNO.	 drawing that is not original will be rejected and returned without review. c. Prior to submission of the submittals to the Architect, the Contractor shall review the shop drawings for conformance to the means, methods, techniques, sequences, and exerctions of construction. The submitted shall be seerdinated with all 	CLR CMU	Clear Concrete Masonry Unit
nes at door or window locations. on and control joints in supporting concrete floor, beams or walls. ediate control joints in parapet walls unless so indicated on the architectural drawings	the means, methods, techniques, sequences, and operations of construction. The submittal shall be coordinated with all other trades and shall include responses to all Contractor directed questions. After all aspects of the Contractor's review are complete, the Contractor's review stamp shall be affixed to the shop drawings and those shop drawings forwarded to	COL CONC	Column Concrete
its:	the Architect or Structural Engineer for review. Shop drawings not bearing the Contractor's review stamp will be returned without review.	CONN CONST	Connection Construction
mpressible filler or fire safing insulation as required (full width and full length) of the same	 d. Submittals - Provide the following submittals for review: 1. Concrete Mix Design and Materials 2. Concrete Reinforcing 3. Embedded Items (plates, angles, etc.) 	CONT COORD CSJ CTRD	Continuous/Continue Coordinate Construction Joint Centered
ove openings in masonry walls as required. See A13/S541.	 4. Masonry Products and Materials 5. Masonry Reinforcing 6. Structural Steel 		Dead Load
by means of mechanical vibration unless self-consolidating grout is used.	 Miscellaneous Steel including lintels, stairs, etc. Substitutions are allowed prior to bid only. Reference the specifications for timing of submission 	d DBA	Penny Deformed Bar Anchor
inished floor elevation.	Special Inspections (based on 2018 IBC, Chapter 17)	DIA or Ø DIM	Diameter Dimension
shall be in accordance with the requirements and recommendations of the American	 Special inspection reports shall be submitted to the Building Official, Owner, Architect, Engineer, Contractor, Sub-Contractor and any other pertinent entity in a timely manner. 	DN DT	Down Precast Double Tee
AISC) Code of Standard Practice for Steel Buildings and Bridges, Latest Edition. Ilowable Stress Design as outlined by AISC.	 All discrepancies found by the special inspector shall immediately be brought to the attention of the general contractor and corrected. If the contractor is unable to correct the discrepancy, the special inspector shall notify the Architect and Engineer. 	DTL DWG DWL	Detail Drawing Dowel
es ASTM A36 ASTM A500, Crodo C (50 koi)	3. Upon completion of the project, the special inspector shall submit a final report delineating that the work was, to the best of the inspector's knowledge, completed in conformance with the approved contract documents and applicable building code.	E	Seismic Load
apes ASTM A500, Grade C (50 ksi) apes ASTM A500, Grade C (46 ksi) ASTM A36	4. The Owner shall retain special inspection services for the items listed below. The Contractor shall provide light general labor	EA EF	Each Each Face
	as required to assist with special inspections.	EJ	Expansion Joint Elevation
to ASTM F1554, Grade 55.	 Foundations a. See Schedule of Special Inspections Table on Sheet S002. 	ELEV EMBED	Elevator Embedment/Embedded
shall be used for all anchor rod placement in concrete and masonry. Provide a nut ate to control vertical alignment.	 Concrete a. See Schedule of Special Inspections Table on Sheet S002. 	ENGR EOD	Engineer Edge of Deck
n the field.	7. Masonry	EOR EOS	Engineer of Record Edge of Slab
niscellaneous steel as required by the contract documents. Miscellaneous steel shall alf angle, glass support, lintels, catwalks and other steel required for stabilization of	a. See Schedule of Special Inspections Table on Sheet S002.	EQ EQUIP	Equal Equipment
	 Steel (includes structural steel, deck and anchor rod placement) a. See Schedule of Special Inspections Table on Sheet S002. 	EQUIV ES	Equivalent Each Side
additional allowance of 2% of the steel bid (includes specification sections 051200, eel material, fabrication and erection to be used at the direction of the Structural f the allowance shall be returned to the owner.	 Wood See Schedule of Special Inspections Table on Sheet S002. Post installed Anchors 	EW EXIST or (E) EXT	Each Way Existing Exterior
be designed assuming cracked concrete at the anchorage.		F FAB f'c	Fabricate 28-day Concrete Strength
be installed per the manufacturers recommendations. See the manufacturers recommended standard embedment unless otherwise noted in		FD FFE	Floor Drain Finished Floor Elevation
installed anchors shall be defined as the distance from the surface of the loaded art of the anchor after the anchor is placed but not expanded.		FIN FLR	Finish/Finished Floor
form to a minimum load capacity of the Hilti Kwik Bolt 3 or approved equal.		f'm FND	28-day Masonry Strength Foundation
l in concrete shall perform to a minimum load capacity of the Hilti Hit HY-200-R V3		FO FRAM	Face of Framing
eel at exterior exposed conditions.		FS FT FUT OR (F)	Far Side Foot/Feet Future
	SYMBOLS LEGEND	FV FV Fy	Field Verify Yield Strength
ned and erected in accordance with the recommendations of the latest edition of the National Wood Construction Manuals.		G GA	Gauge/Gage
as Fir-Larch #2 or better with 19% maximum moisture content at the time of manufacture.	PLAN NOTE EARTH HATCH STRUCTURAL FTRUCTURAL	GALV GEN GR	Galvanize/Galvanized General Grade
sheathing. I roof sheathing.	MASONRY WALL GRAVEL HATCH	н	Horizontal Shear
Il have the following minimum material properties.	CONTROL JOINT CONCRETE HATCH	HSA HD	Headed Stud Anchor Headed/Hold Down
	FLOOR OR ROOF SLOPE ARROW GROUT HATCH	HGR HK	Hanger Hook
	ELEVATION SYMBOL	Horiz Ht	Horizontal Height
for minimum fastening requirements.	DRAWING REVISION # SECTION CUT # NUMBER SHT# OR DETAIL	l ID	Inside Diameter
or is in contact with concrete, earth or masonry shall be exterior preservative pressure	SHEET NUMBER	IF IN	Inside Face Inch
perform to a minimum load capacity of the Simpson Strong Tie products. All connectors	REVISION CLOUD # PLAN NUMBER	INT	Interior
corrosive effects of the exterior preservative pressure treatment and shall be completely nections.	(#) SHEET NUMBER	J JST	Joist
nels 7/16" minimum nominal thickness, exterior rated sheathing, exposure 1. Run panels tagger panel ends 1/2 panel length. Attach with 8D common or deformed shank nails on center along building perimeter and continuous panel edges, 2" on center at panel edges	GRID LINE	JT K	Joint
te supports. Space nails at 2" on center within 3'-0" of building corners and edges. Provide		К	Kip (1000 lbs)
laries. Maximum diaphragm shear (service level) = 700 LB/FT.		KSF KSI	Kips per Square Foot Kips per Square Inch

ipes pes	ASTM A36 ASTM A500, Grade C (50 ksi) ASTM A500, Grade C (46 ksi) ASTM A36
	ASTIM ASU

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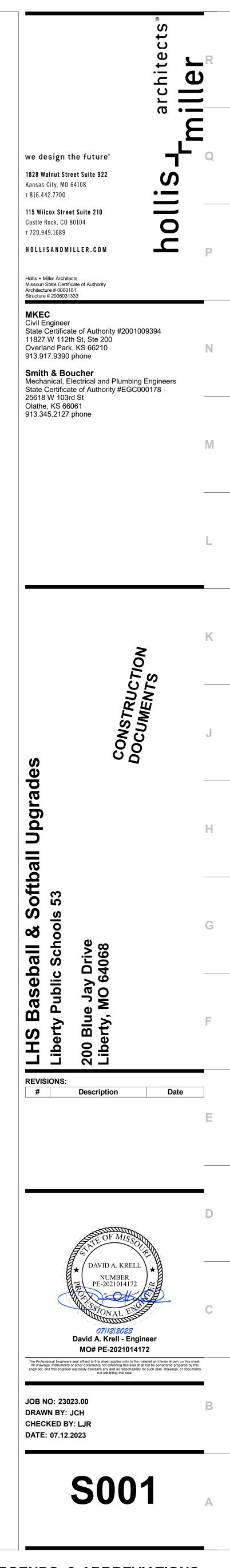
	17	
	L	
And	L	Live Load
At	LBS	Pounds
	LG LLBB	Length Long Leg Back to Back
Axial Load	LLH	Long Leg Horizontal
Additional	LLV	Long Leg Vertical
Above Finished Floor Air Handling Unit	LOC LONG	Location Longitudinal
Alternate	LR	Roof Live Load
Aluminum	LSH	Long Side Horizontal
Approximate Anchor Rod	LSV LWC	Long Side Vertical Light-Weight Concrete
Architect/Architectural Drawings	LWT	Light-Weight
Anchor Tie-Down System	М	
	MAS	Masonry
Balance	MAX	Maximum
Brick Ledge Building	MCJ MECH	Masonry Control Joint Mechanical
Blocking	MEP	Mechanical/Electrical/Plumbing
Beam	MEZZ	Mezzanine
Bottom of Bottom of Deck	MFR MIN	Manufacturer Minimum
Bottom of Steel	MIR	Mirror
Bottom	MISC	Miscellaneous
Bearing Both Sides	MO MTL	Masonry Opening Metal
Between	MX	Strong Axis Moment
	MY	Weak Axis Moment
Compression	Ν	
Cantilever	NIC	Not in Contract
Cold-Formed Steel Framing Cast-in-Place	NM NO or #	Non-Metallic Number
Control Joint	NS	Near Side/Non-Shrink
Complete Joint Penetration Center Line	NTS	Not to Scale
Clear	NWC NWT	Normal-Weight Concrete Normal-Weight
Concrete Masonry Unit	•	
Column	0	On Contor
Concrete Connection	OC OD	On Center Outside Diameter
Construction	OF	Outside Face
Continuous/Continue Coordinate	OH OPNG	Opposite Hand Opening
Construction Joint	OPP	Opposite
Centered	P	
	P PAF	Powder Actuated Fastener
Dead Load	PAR	Parallel
Penny	PC	Precast Concrete
Deformed Bar Anchor Diameter	PCF PERP	Pounds per Cubic Foot Perpendicular
Dimension	PL	Plate
Down	PLF	Pounds per Linear Foot
Precast Double Tee Detail	PREFAB PRELIM	Prefabricated Preliminary
Drawing	PSF	Pounds per Square Foot
Dowel	PSI PT	Pounds per Square Inch Point or Post-Tensioned
	FI	Point of Post-relisioned
Seismic Load	Q	
Each	QTY	Quantity
Fach Face		
Each Face Expansion Joint	R	
Expansion Joint Elevation	R	Radius
Expansion Joint		Reference/Refer to
Expansion Joint Elevation Elevator	R REF	
Expansion Joint Elevation Elevator Embedment/Embedded Engineer Edge of Deck	R REF REINF REQD REQT	Reference/Refer to Reinforcing/Reinforced/Reinforcement Required Requirement
Expansion Joint Elevation Elevator Embedment/Embedded Engineer	R REF REINF REQD	Reference/Refer to Reinforcing/Reinforced/Reinforcement Required
Expansion Joint Elevation Elevator Embedment/Embedded Engineer Edge of Deck Engineer of Record Edge of Slab Equal	R REF REINF REQD REQT RET REV RO	Reference/Refer to Reinforcing/Reinforced/Reinforcement Required Requirement Return Revision Rough Opening
Expansion Joint Elevation Elevator Embedment/Embedded Engineer Edge of Deck Engineer of Record Edge of Slab Equal Equipment	R REF REINF REQD REQT RET REV	Reference/Refer to Reinforcing/Reinforced/Reinforcement Required Requirement Return Revision
Expansion Joint Elevation Elevator Embedment/Embedded Engineer Edge of Deck Engineer of Record Edge of Slab Equal	R REF REINF REQD REQT RET REV RO	Reference/Refer to Reinforcing/Reinforced/Reinforcement Required Requirement Return Revision Rough Opening
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Special Inspection Prior to Welding - Table N5.4-1

Req'd	Inspection Task	Continuous	Periodic
Yes	1. Welding procedure specifications (WPSs) available	X	
Yes	2. Manufacturer certifications for welding consumables available	x	
Yes	3. Material identification (type/grade)		X
Yes	4. Welder identification system		X
Yes	5. Fit-up of groove welds (including joint geometry)		
Yes	5.a. Joint preparation		X
Yes	5.b. Dimensions (alignment, root opening, root face, bevel)		X
Yes	5.c. Cleanliness (condition of steel surfaces)		X
Yes	5.d. Tacking (tack weld quality and location)		X
Yes	5.e. Backing type and fit (if applicable)		X
Yes	6. Configuration and finish of access holes		X
Yes	7. Fit-up of fillet welds		
Yes	7.a. Dimensions (alignment, gaps at root)		X
Yes	7.b. Cleanliness (condition of steel surfaces)		X
Yes	7.c. Tacking (tack weld quality and location)		X
Yes	8. Check welding equipment		X

Special Inspection During Welding - Table N5.4-2

Req'd	Inspection Task	Continuous	Periodi
Yes	1. Use of qualified welders		X
Yes	2. Control and handling of welding consumables		
Yes	2.a. Packaging		X
Yes	2.b. Exposure control		X
Yes	3. No welding over cracked tack welds		X
Yes	4. Environmental conditions		
Yes	4.a. Wind speed within limits		x
Yes	4.b. Precipitation and temperature		X
Yes	5. WPS followed		X
Yes	5.a. Settings on welding equipment		X
Yes	5.b. Travel speed		X
Yes	5.c. Selected welding materials		
Yes	5.d. Shielding gas type/flow rate		X
Yes	5.e. Preheat applied		X
Yes	5.f. Interpass temperature maintained (min. /max.)		X
Yes	5.g. Proper position (F, V, H, OH)		X
No	5.h. Intermix of filler metals avoided unless approved		
Yes	6. Welding techniques		
Yes	6.a. Interpass and final cleaning		X
Yes	6.b. Each pass within profile limitations		X
Yes	6.c. Each pass meets quality requirements		Х

Req'd	Inspection Task	Continuous	Periodio
Yes	1. Welds cleaned		Х
Yes	2. Size, length and location of welds	X	
Yes	3. Welds meet visual acceptance criteria		
Yes	3.a. Crack prohibition	X	
Yes	3.b. Weld/base-metal fusion	X	
Yes	3.c. Crater cross section	X	
Yes	3.d. Weld profiles	X	
Yes	3.e. Weld size	X	
Yes	3.f. Undercut	X	
Yes	3.g. Porosity	X	
Yes	4. Arc strikes	X	
Yes	5. k-area	X	
Yes	6. Backing removed and weld tabs removed (if required)	X	
Yes	7. Repair activities	X	
Yes	8. Document acceptance or rejection of welded joint or member	X	
No	9. Placement of reinforcing or contouring fillet welds (if required) (ref: AISC 341-10)		
No	10. Backing removed, weld tabs removed and finished, and fillet welds added (if required) (ref: AISC 341-10)		

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Special Inspection of Galvanized Structural Steel Main Members - Section N5.7

Req'd	Inspection Task	Continuous	Periodic
Yes	Visually inspect exposed cut surfaces of galvanized structural steel main members and exposed corners of rectangular HSS for cracks subsequent to galvanizing.		X
Othe	r Inspection Task - Section N5.8		
Deald	-	Continuous	Daviadia

Req'd	Inspection Task	Continuous	Periodic
Yes	1. Verify compliance of fabricated steel with the details shown on the approved shop drawings.		X
Yes	2. Verify compliance of the erected steel frame with the details shown on the approved erection drawings, including braces, stiffeners, member locations and joint details.		x
Yes	3. Anchor rods and other embedments support structural steel		
Yes	3.a. Verify the diameter, grade, type and length of the anchor rod or embedded item.		X
Yes	3.b. Verify the extent or depth of embedment into the concrete.		X
No	4. RBS requirements, if applicable (ref: AISC 341-10)		
No	4.a. Contour and finish		
No	4.b. Dimensional tolerances		
No	5. Protected zone—no holes and unapproved attachments made by fabricator or erector, as applicable (ref: AISC 341-10)		
No	6. H-piles - Protected zone—no holes and unapproved attachments made by the responsible contractor, as applicable (ref: AISC 341-10)		

Special Inspection of Concrete Construction - Table 1705.3

Req'd	Inspection Task	Continuous	Periodic
Yes	1. Inspect reinforcing steel, including prestressing tendons, and		X
Yes	2. Inspection of reinforcing steel welding in accordance with Steel Construction section above.		X
Yes	3. Inspection of anchors cast in concrete.		X
Yes	4. Inspection of anchors post-installed in hardened concrete members.	X	
Yes	5. Verify use of approved design mix.		X
Yes	6. Prior to placement fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	
Yes	7. Inspect concrete and shotcrete placement for proper application techniques.	X	
Yes	8. Inspect for maintenance of specified curing temperature and techniques.		X
No	9. Inspection of prestressed concrete:		
No	9.a. Application of prestressing forces	X	
No	9.b. Grouting of bonded prestressing tendons in the	X	
No	10. Erection of precast structural members		X
No	11. Verification of in-situ concrete strength, prior to		X
Yes	12. Inspection formwork for shape, location and		Х

Special Inspection of Masonry Construction - Table 1705.4

Req'd	Inspection Task	Continuous	Periodic
Yes	1. Inspect masonry construction in accordance with IBC-15 Section 1705.4 and TMS 602-16 Article 1.6.		

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Special Inspection of Wood Construction - Table 1705.5							
Req'd	Inspection Task	Continuous	Periodic				
Yes	1. Inspect prefabricated wood structural elements in accordance with Section 1704.2.5		X				
No	2. High load diaphragms:		-				
No	2.a. Verify sheathing grade and thickness.		X				
	2 h. Varify nominal size of framing members of edicining neurol						

	with Section 1704.2.5	
No	2. High load diaphragms:	
No	2.a. Verify sheathing grade and thickness.	X
No	2.b. Verify nominal size of framing members at adjoining panel edges.	X
No	2.c. Verify nail or staple diameter and length.	X
No	2.d. Verify number of fastener lines.	X
No	2.e. Verify spacing between fasteners in each line and at panel edges.	X
No	3. Shearwalls:	
No	3.a. Verify sheathing grade and thickness.	X
No	3.b. Verify nominal size of framing members at adjoining panel edges.	X
No	3.c. Verify nail or staple diameter and length.	X
No	3.d. Verify number of fastener lines.	X
No	3.e. Verify spacing between fasteners in each line and at panel	X
No	3.f. Location and size of holdowns.	X
Yes	4. Verify nailing, bolting, anchoring and fastening of:	
No	4.a. Drag struts and collectors.	X
No	4.b. Braces.	X
Yes	4c. Hold-downs.	X
No	5. Metal-plate-connected wood trusses spanning 60 feet or greater:	
No	5.a. Verify temporary installation restraint/bracing installed in accordance with the approved shop drawings.	X
No	5.b. Verify permanent individual truss member restraint/bracing installed in accordance with the approved shop drawings.	X

Special Inspection of Soils - Table 1705.6

Req'd	Inspection Task	Continuous	Periodic
Yes	1. Verify materials below shallow foundations are adequate to achieve the required bearing capacity.		Х
Yes	2. Verify excavations are extended to proper depth and have reached proper material.		X
Yes	3. Perform classification and testing of compacted fill materials.		X
Yes	4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	X	
Yes	5. Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly.		Х

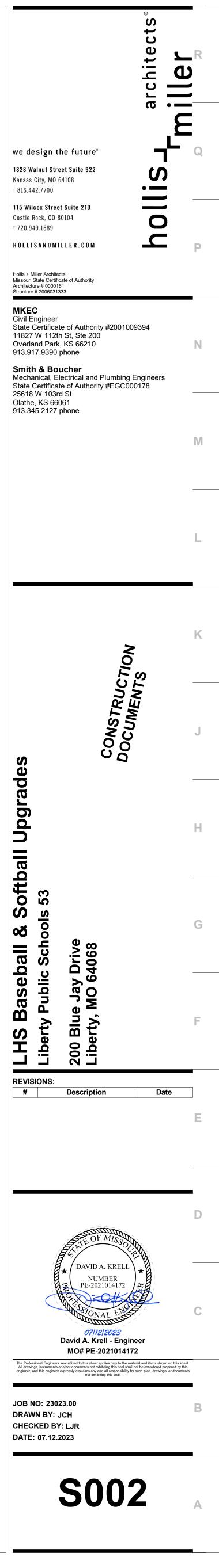
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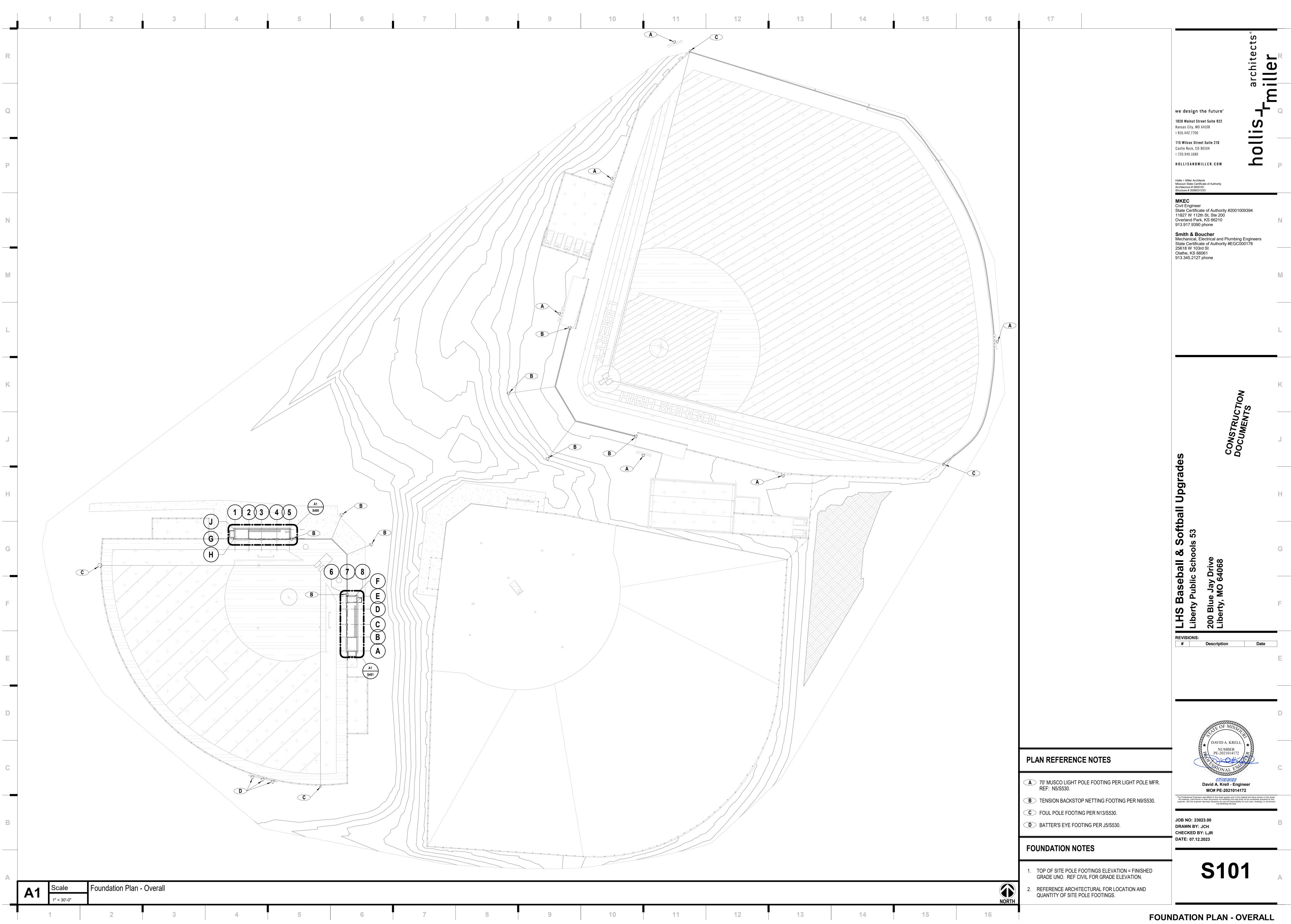
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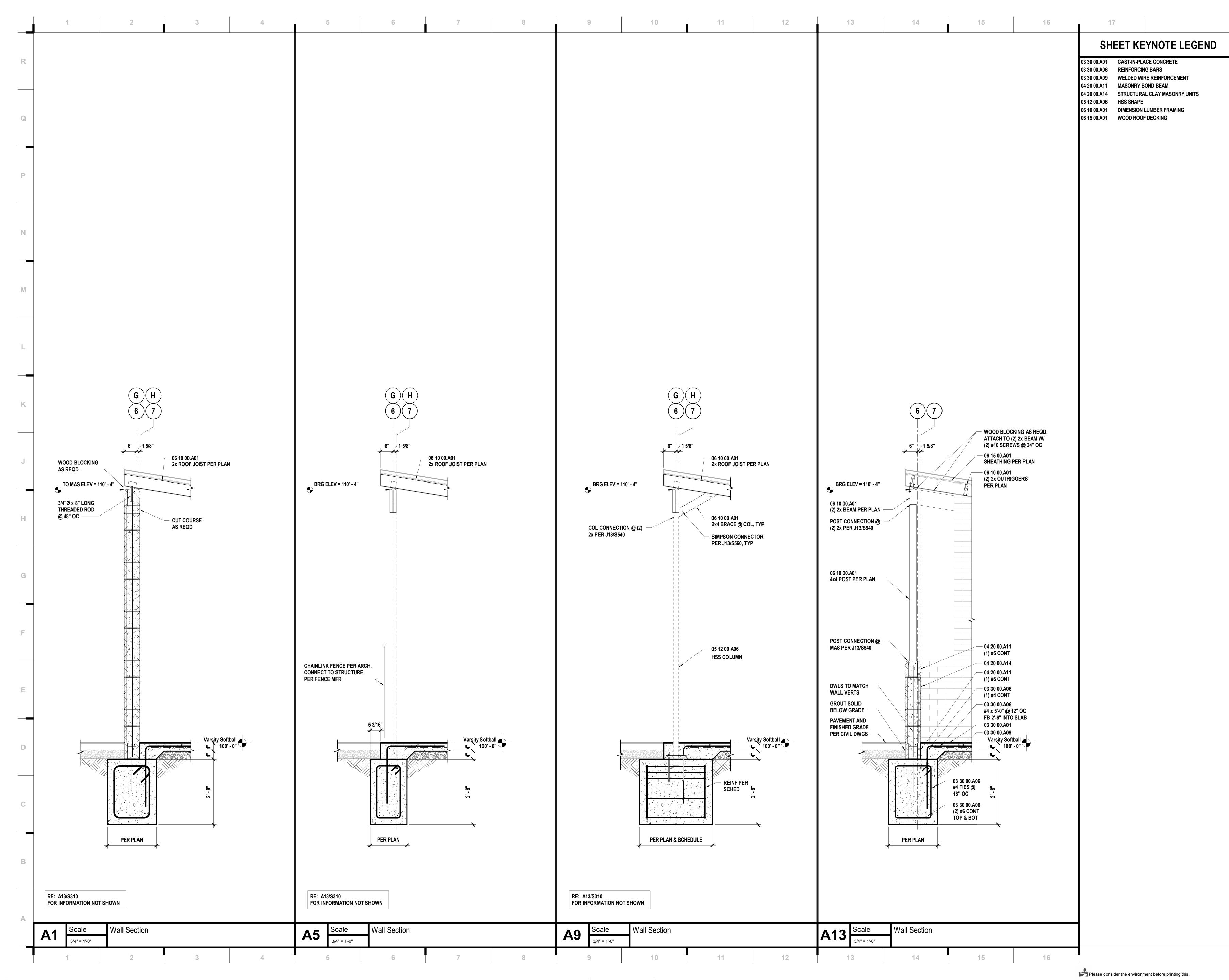
Special Inspection of Masonry Construction - Table

eq'd	Inspection Task	Continuous	Periodic
'es L	evel 2 Quality Assurance		
ïes T	ests:		
es a	. Verify slump flow and Visual Stability Index (VSI) is delivered to the project site in accordance with TMS 602-16 Specification Article 1.5B.1.b.3 for self-consolidating grout.		X
es A	2. Verify f'm and f'aac in accordance with TMS 602-16 Specification Article 1.4B prior to construction, except where specifically exempted.		X
li	nsepection:		
	. Verify compliance with the approved submittals and project specifications.		Х
es 2	2. At the start of masonry construction, verify:		
es 2	a. Proportions of site-prepared mortar.		Х
es 2	b. Construction of mortar joints.		Х
lo 2	c. Grade and size of prestressing tendons and anchorages.		
	d. Location of reinforcement, connectors, prestressing tendons and anchorages.		
lo 2	e. Prestressing technique.		
lo F	A.f. Properties of thin-bed mortar for AAC masonry.(Continuous inspection is required for the first 5000 square feet of AAC masonry. Periodic inspection is required after the first 5000 square feet of AAC masonry.)		
es 3	8. Prior to grouting, verify:		
es 3	a. Grout space is clean.		Х
	b. Grade, type and size of reinforcement and anchor bolts, and prestressing tendons and anchorages.		X
	S.c. Placement of reinforcing and connectors, and prestressing endons and anchorages.		Х
	d. Proportions of site-prepared grout and prestressing grout for bonded tendons.		X
es 3	e. Construction of mortar joints.		X
es 4	. During masonry construction, verify:		
es 4	a. Size and location of structural members.		Х
es a	b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction.		X
es 4	.c. Welding of reinforcement.	X	
es c	d. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature bove 90°F).		X
lo 4	e. Application and measurement of prestressing force.		
$\boldsymbol{\Lambda}$.f. Placement of grout and prestressing grout for bonded tendons is n compliance.		
lo n s	e.g. Placement of AAC masonry units and construction of thin-bed nortar joints. (Continuous inspection is required for the first 5000 equare feet of AAC masonry. Periodic inspection is required after he first 5000 square feet of AAC masonry.)		
06	5. Observe preparation of grout specimens, mortar specimens and/or prisms.		X

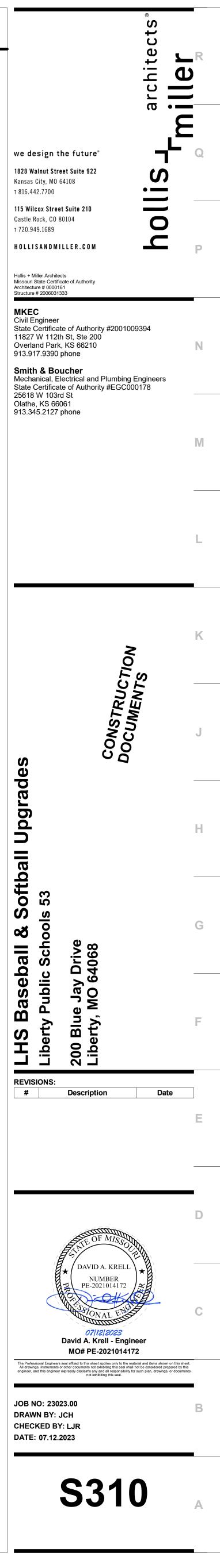


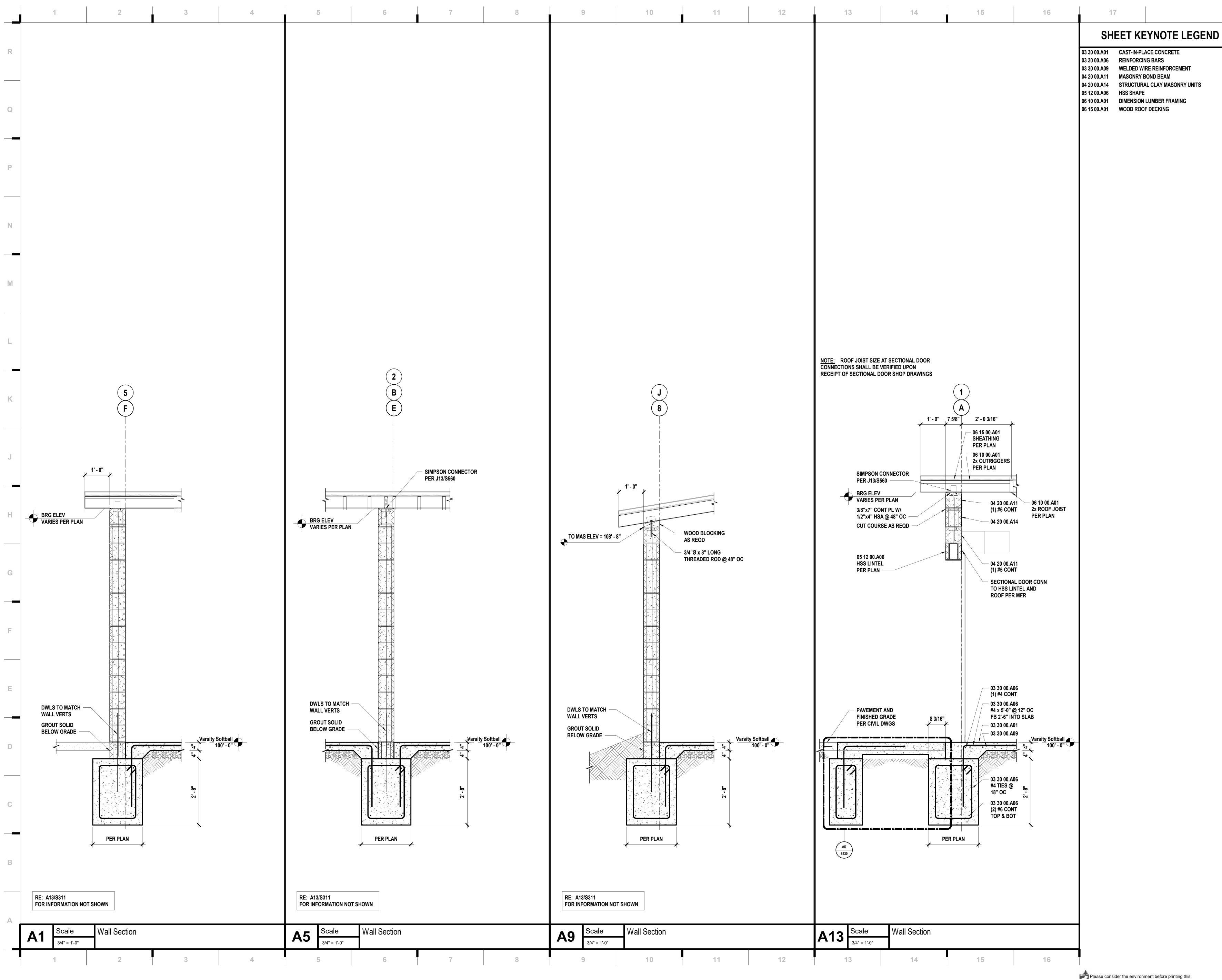


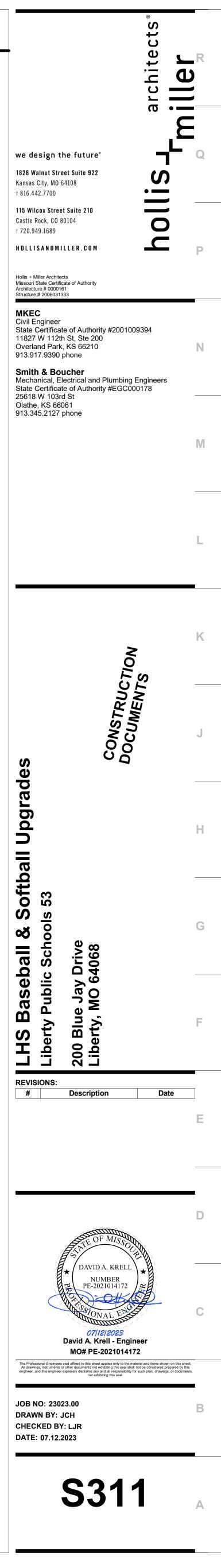
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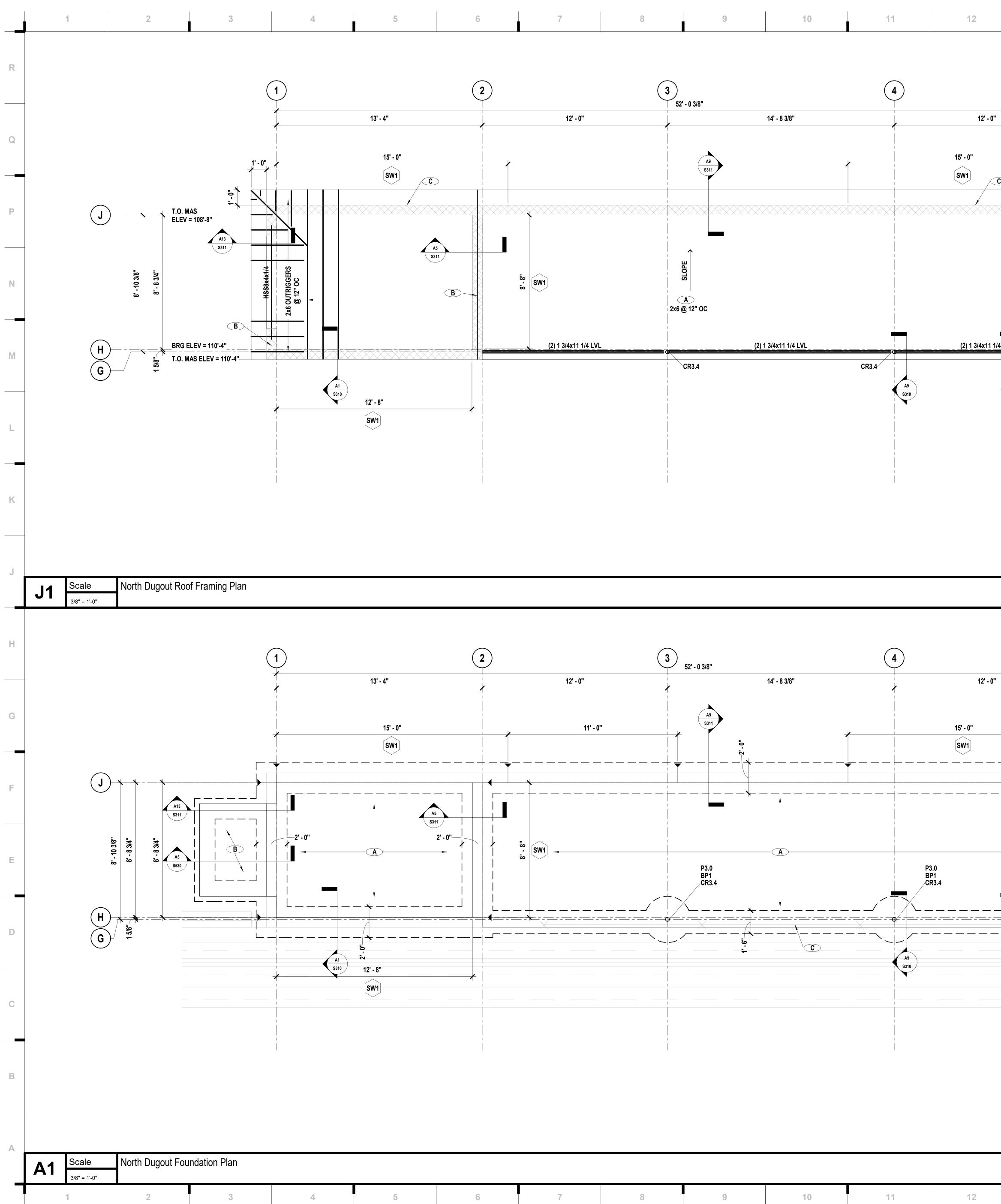


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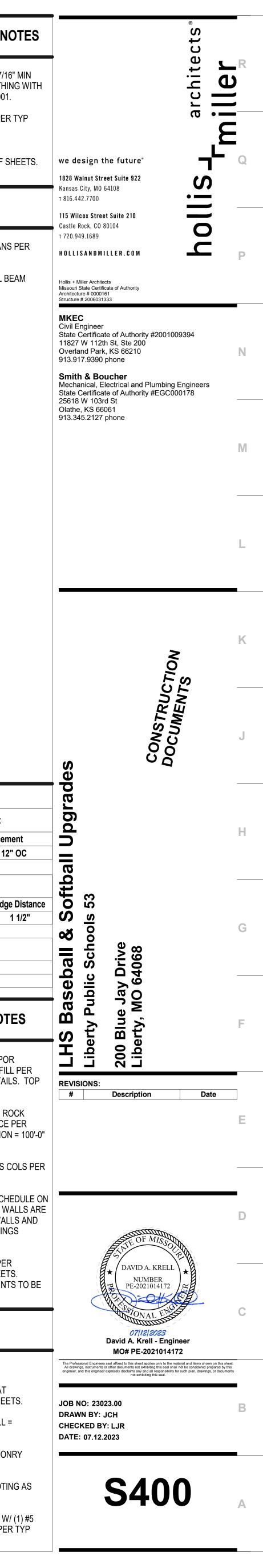


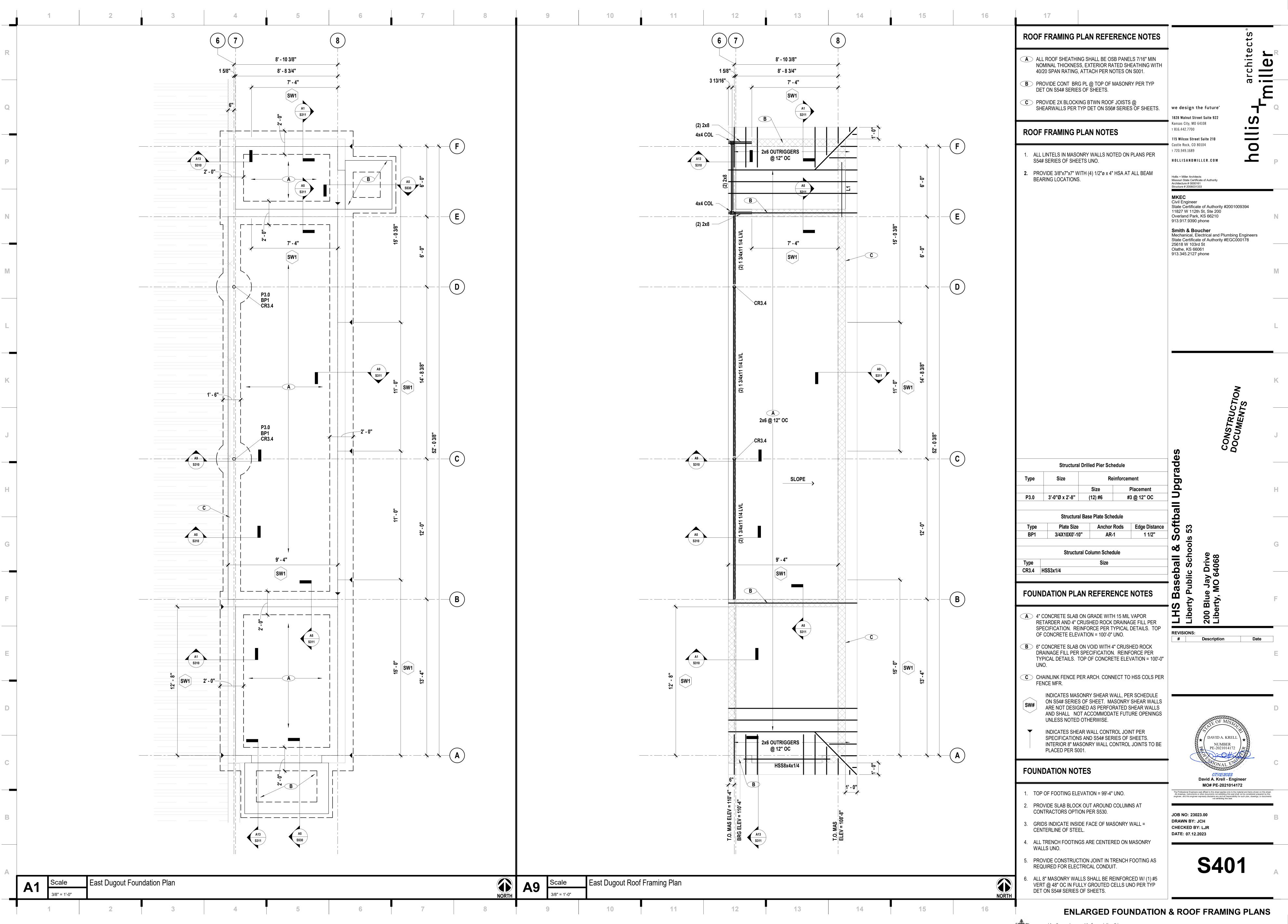


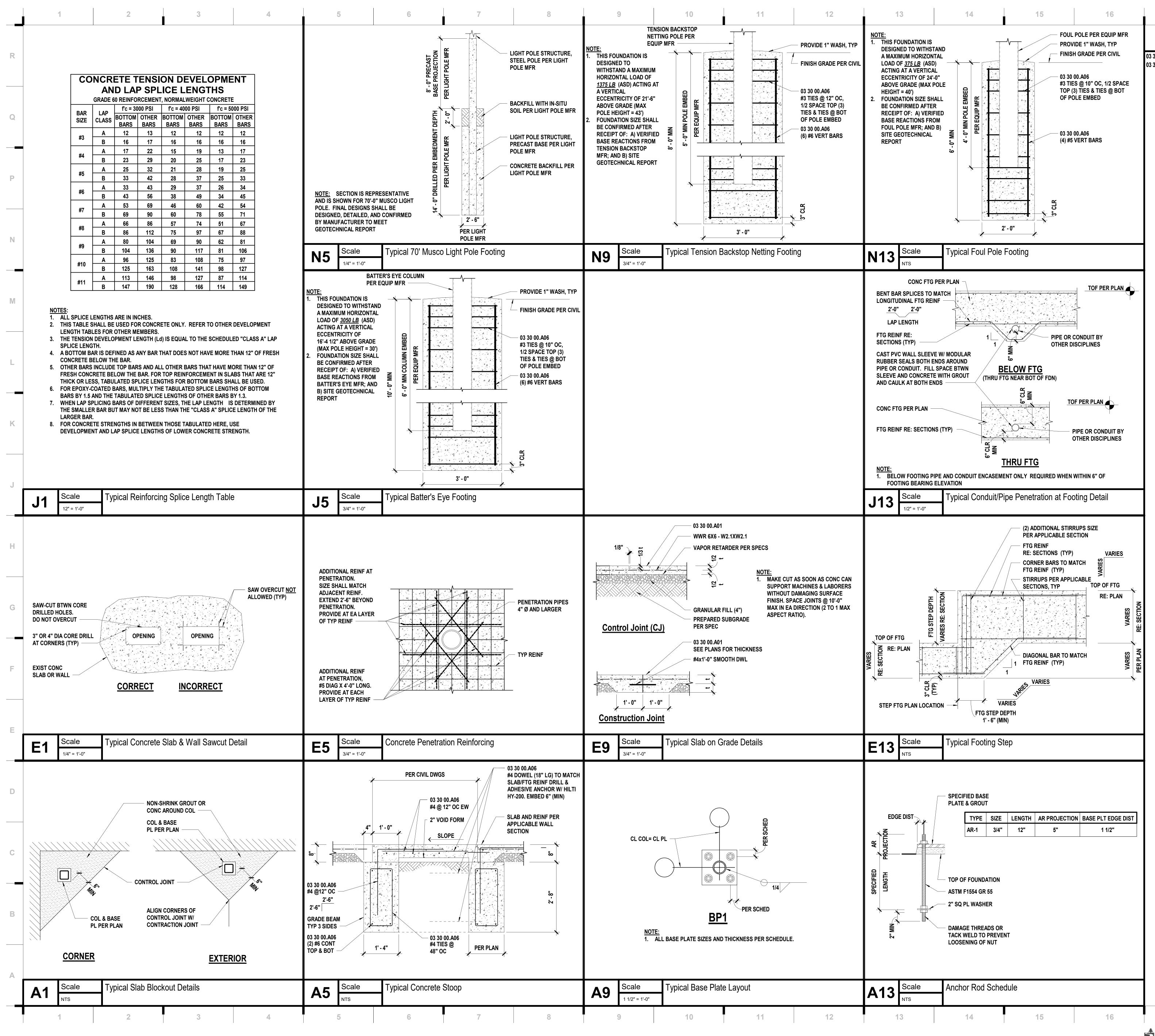




7	8 9	10 11	12 13	14 15	16 17 ROOF FRAMING PLAN REFERENCE NOTE
) 12' - 0"	3 52' - 0 3/8"	4	12' - 0"	5	 A ALL ROOF SHEATHING SHALL BE OSB PANELS 7/16" MII NOMINAL THICKNESS, EXTERIOR RATED SHEATHING W 40/20 SPAN RATING, ATTACH PER NOTES ON S001. B PROVIDE CONT BRG PL @ TOP OF MASONRY PER TYP DET ON S54# SERIES OF SHEETS. C PROVIDE 2X BLOCKING BTWN ROOF JOISTS @ SHEARWALLS PER TYP DET ON S56# SERIES OF SHEET
	A9 5311		15' - 0" SW1 C	1'-0"	ROOF FRAMING PLAN NOTES
	(2) 1 : CR3.4	3/4x11 1/4 LVL CR3.4	(2) 1 3/4x11 1/4 LVL		 ALL LINTELS IN MASONRY WALLS NOTED ON PLANS PEF S54# SERIES OF SHEETS UNO. PROVIDE 3/8"X7"X7" WITH (4) 1/2"® x 4" HSA AT ALL BEAM BEARING LOCATIONS.
) 12' - 0"	3 52' - 0 3/8"	4	12' - 0" 15' - 0" SW1		Structural Drilled Pier Schedule Type Size Reinforcement 93.0 3'-0"Ø x 2'-8" (12) #6 #3 @ 12" OC Structural Base Plate Schedule Type Plate Size Anchor Rods Edge Dist BP1 3/4X10X0'-10" AR-1 1 1/2 Structural Column Schedule Type Structural Column Schedule
	P3.0 P3.0 BP1 CR3.4 CR3.4			A1 S311 2'-0" E SSW1 SSW1	Type Size CR3.4 HSS3x1/4 FOUNDATION PLAN REFERENCE NOTES A 4" CONCRETE SLAB ON GRADE WITH 15 MIL VAPOR RETARDER AND 4" CRUSHED ROCK DRAINAGE FILL PEI SPECIFICATION. REINFORCE PER TYPICAL DETAILS. T OF CONCRETE ELEVATION = 100'-0" UNO. B 6" CONCRETE SLAB ON VOID WITH 4" CRUSHED ROCK DRAINAGE FILL PER SPECIFICATION. REINFORCE PER TYPICAL DETAILS. TOP OF CONCRETE ELEVATION = 10 UNO. C CHAINLINK FENCE PER ARCH. CONNECT TO HSS COLS FENCE MFR. SW# INDICATES MASONRY SHEAR WALL, PER SCHEDUI S54# SERIES OF SHEET. MASONRY SHEAR WALLS A SHALL NOT ACCOMMODATE FUTURE OPENINGS UNLESS NOTED OTHERWISE. INDICATES SHEAR WALL CONTROL JOINT PER SPECIFICATIONS AND S54# SERIES OF SHEETS. INTERIOR 8" MASONRY WALL CONTROL JOINTS TO PLACED PER S001.
7	8 9	10 11	12 13	14 15	FOUNDATION NOTES 1. TOP OF FOOTING ELEVATION = 99'4" UNO. 2. PROVIDE SLAB BLOCK OUT AROUND COLUMNS AT CONTRACTORS OPTION PER S53# SERIES OF SHEETS. 3. GRIDS INDICATE INSIDE FACE OF MASONRY WALL = CENTERLINE OF STEEL. 4. ALL TRENCH FOOTINGS ARE CENTERED ON MASONRY WALLS UNO. 5. PROVIDE CONSTRUCTION JOINT IN TRENCH FOOTING AN REQUIRED FOR ELECTRICAL CONDUIT. 6. ALL 8" MASONRY WALLS SHALL BE REINFORCED W/ (1) # VERT @ 48" OC IN FULLY GROUTED CELLS UNO PER TYPE DET ON S54# SERIES OF SHEETS. 16 CONSTRUCTION DEFORE DET ON S54# SERIES OF SHEETS.

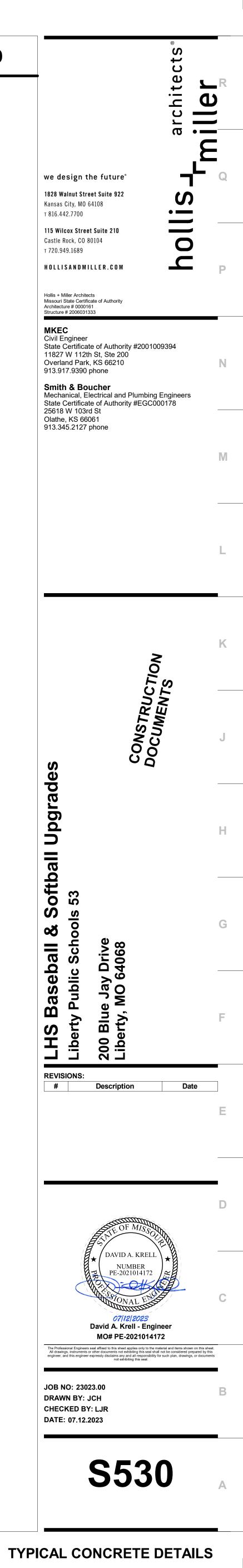


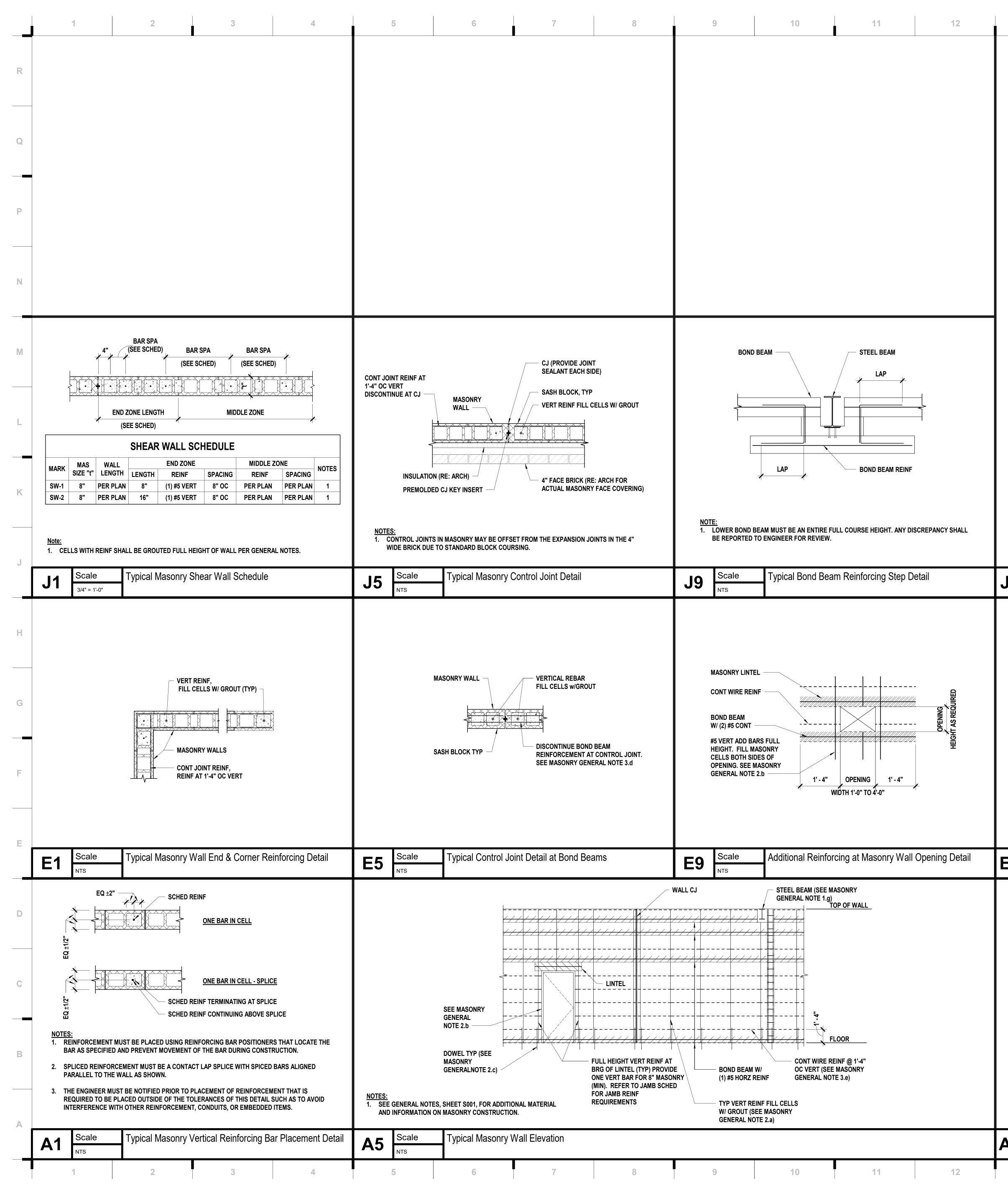




SHEET KEYNOTE LEGEND

03 30 00.A01 CAST-IN-PLACE CONCRETE 03 30 00.A06 REINFORCING BARS

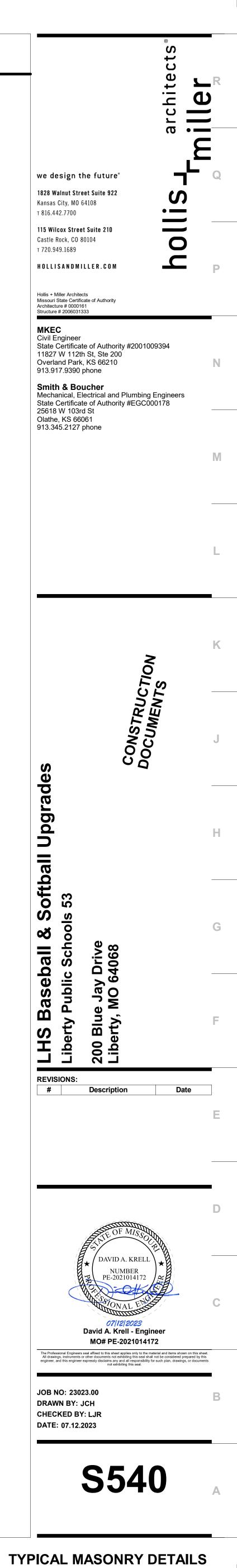


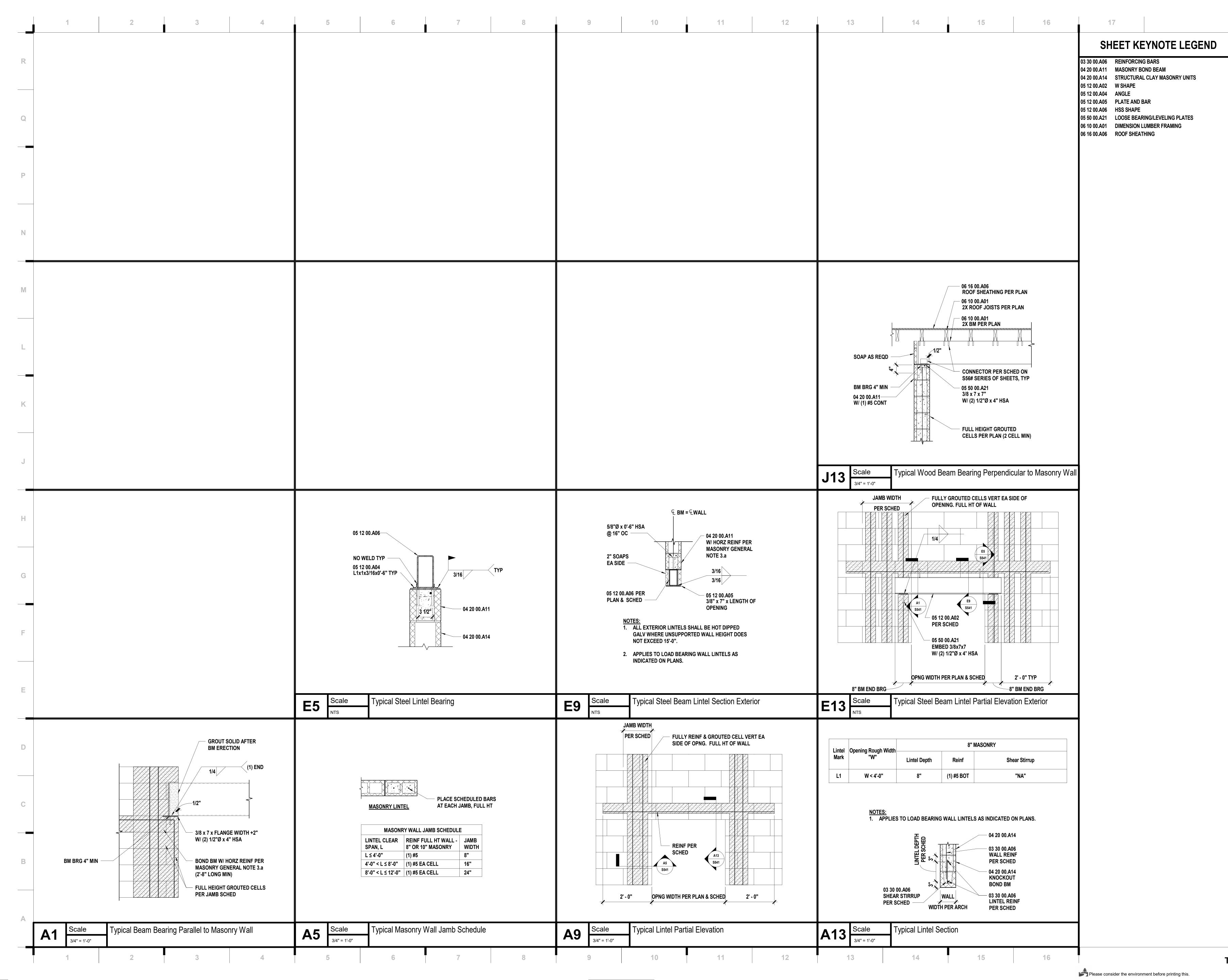


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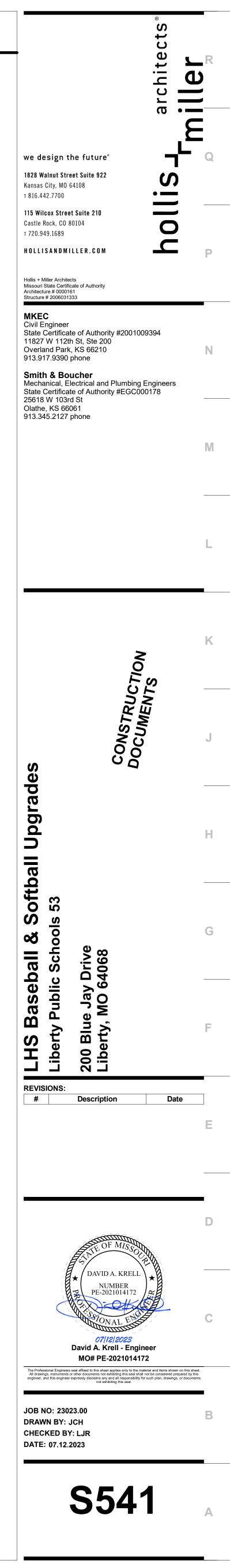
SHEET KEYNOTE LEGEND

				N T AND RCEMENT,	_		_	-	
	4" MAS		MAS	l	MAS	-	MAS	-	MAS
BAR SIZE	1 BAR /CELL	1 BAR /CELL	2 BARS /CELL	1 BAR /CELL	2 BARS /CELL	1 BAR /CELL	2 BARS /CELL	1 BAR /CELL	2 BARS /CELL
#3	14	12	NP	12	12	12	12	12	12
#4	25	16	NP	12	22	12	16	12	17
#5 #6	NP NP	25 47	NP NP	18 34	35 NP	14 26	25 47	12 21	27 51
#7	NP	NP	NP	47	NP	36	NP	29	NP
#8 #9	NP NP	NP NP	NP NP	NP NP	NP NP	NP NP	NP NP	45 NP	NP NP
#9 #10	NP	NP	NP NP	NP	NP	NP	NP	NP	NP
#11	NP	NP	NP	NP	NP	NP	NP	NP	NP
3. 4. 5.	COLUMNS INCREASE WITH APPI DEVELOPI SUBSTITU WHEN LAF SMALLER	UNLESS I TABULAT ROVAL BY NG AT LEA TED IN SO SPLICING BAR.	BE USED FO NOTED OTH ED VALUES THE ENGIN AST 125% OI ME LOCATIO BARS OF D 1 ON THIS S	ERWISE IN BY 50% FC EER, WELI F THE YIEL DNS. DIFFERENT	DETAILS. OR EPOXY (DED SPLICE D STRENGT SIZES, THE	COATED RE ES AND ME TH, Fy OF T E LAP LENC	EINFORCEM CHANICAL S HE BAR MA	ENT. Splices Y Be	
13	Scale		Typical N	Masonry	v Vertical	Reinfor	cing Spl	ice Lenç	gth Tat
13	NTS								
	BA BA ANI	KE MORTA CK & FILL CKER ROD D SEALAN CH SIDE -	W/				STEEL IRAP	-	
40	Scale		Typical N	Masonry	v Wall Int	ersectio	n Reinfo	orcina D	etail
13	NTS		51	J				5	
		TO ALL M/	ection ASONRY BO		-		T-Inters		
13	Scale NTS		Typical E Intersect		am Rein	Iforcing	@ 8" Ma	isonry V	Vall
		1							

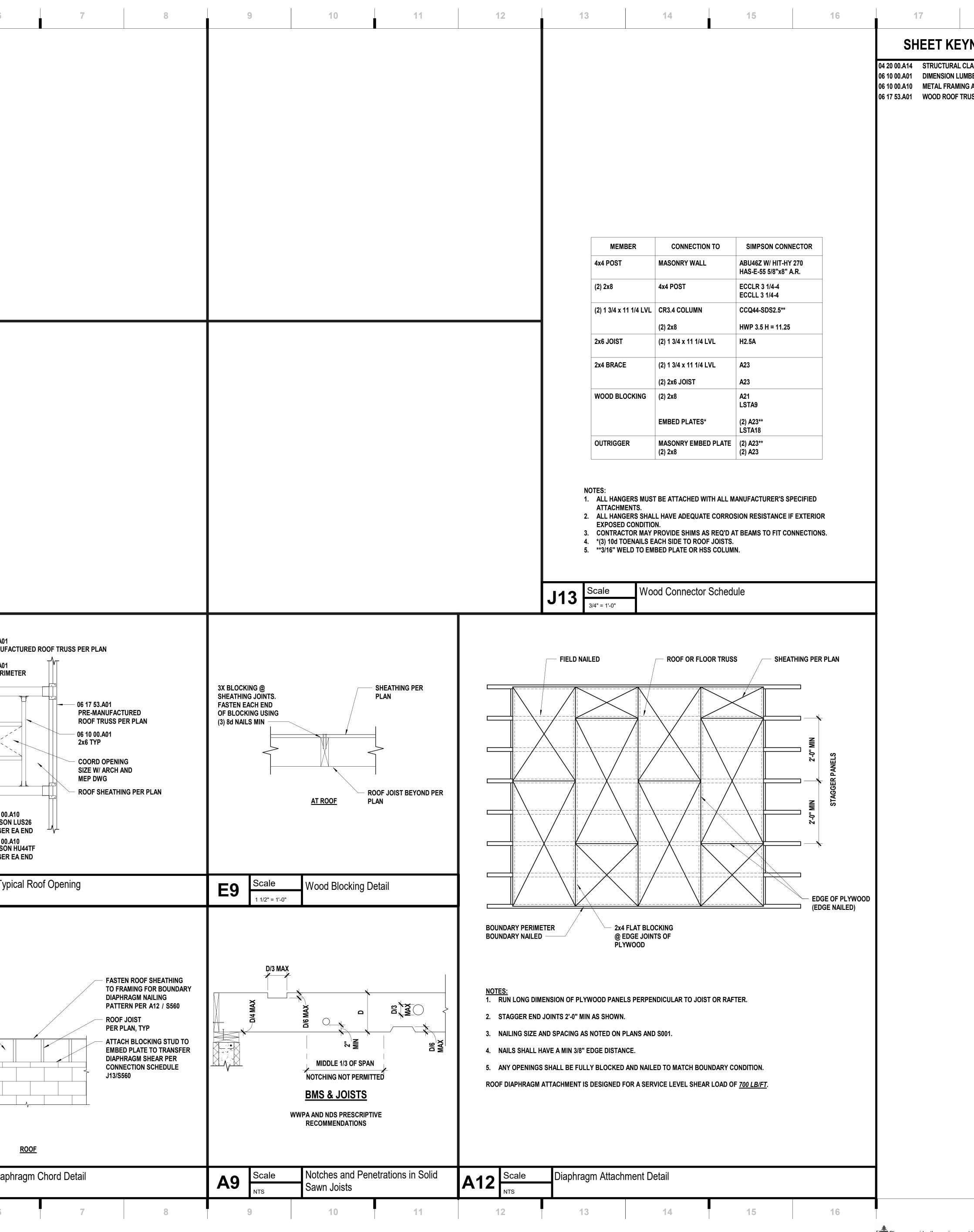




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F						06 10 00.A SIMPSON HANGER I 06 10 00.A SIMPSON
E					E5 Scale	HANGER I
D					BLOCKING STUD BTWN EA JOIST, DESIGNED TO TRAN ROOF DIAPHRAGM SHEAR	ISFER OUT
С					OF ROOF SHEATHING INTO SHEAR WALLS. EACH BLO STUD IS DESIGNED FOR 70 (ASD) DIAPHRAGM SHEAR CONT EMBED PLATE PER OTHER DETAILS) DCKING 10 PLF
В					04 20 00.A14 MASONRY WALL PER PLAN	
Α	1	2	3	4	A5 Scale 1/2" = 1'-0" 5	Roof Diaph



	13	14	15	16	1	17		
		_			SF	IEET KE	YNOTE LE	GEND
	MEMBER 4x4 POST (2) 2x8 (2) 1 3/4 x 11 1/4 LVL (2) 2x8 (2) 1 3/4 x 11 1/4 LVL 2x6 JOIST 2x4 BRACE WOOD BLOCKING WOOD BLOCKING OUTRIGGER	CONNECTION TO MASONRY WALL 4x4 POST CR3.4 COLUMN (2) 2x8 (2) 1 3/4 x 11 1/4 LVL (2) 2 x8 (2) 1 3/4 x 11 1/4 LVL (2) 2 x8 (2) 1 3/4 x 11 1/4 LVL (2) 2 x8 (2)	SIMPSON CONNE ABU46Z W/ HIT-HY 2 HAS-E-55 5/8"x8" A.I ECCLR 3 1/4-4 ECCLL 3 1/4-4 CCQ44-SDS2.5** HWP 3.5 H = 11.25 H2.5A A23 A23 A23 (2) A23** LSTA18 (2) A23** (2) A23** (2) A23** SIMPSON CONNE	CTOR 70 R.	_	IEET KE STRUCTURAL DIMENSION LU METAL FRAMI	ET KEYNOTE LEGEH TRUCTURAL CLAY MASONRY UNITS MIENSION LUMBER RAMING ETAL FRAMMOR ANCHORS JOOD ROOF TRUSSES	
	 CONTRACTOR MAY *(3) 10d TOENAILS E 	ON. PROVIDE SHIMS AS REQ'D A EACH SIDE TO ROOF JOISTS. IBED PLATE OR HSS COLUMI		NECTIONS.				
J13	Scale Wo	od Connector Schedu	ule					
			S SHEATH	HING PER PLAN				
END JOINTS 2'-0" M ZE AND SPACING A LL HAVE A MIN 3/8 NGS SHALL BE FL GM ATTACHMENT	VIN AS SHOWN. AS NOTED ON PLANS AND " EDGE DISTANCE. JLLY BLOCKED AND NAIL	ITS OF NDICULAR TO JOIST OR RAF D S001. ED TO MATCH BOUNDARY CO RVICE LEVEL SHEAR LOAD OF	ONDITION.					
•	13	14	15	16		sider the environm	nent before printing this.	TYPI



1	2 3		4	5		6	7		8	9	10	11	12
<u>C</u>	CONDUIT AND WIRE		<u>C</u>	COMMUNICATION	<u> 15</u>								
	ARROWS INDICATE CONDUIT AND WIRE HOME TO PANEL WITH 2-#12 AWG CONDUCTORS UNITED OR OTHERWISE REQUIRED.	RUN(S) JNLESS	<	TELEPHONE OUTLET LINE THRU DEVICE IN	IDICATES AI	BOVE COUNTEI	R						
	CONDUIT RUN CONCEALED IN WALL OR ABOY CEILING.	/E	\triangleleft	DATA OUTLET									
	CONDUIT RUN UNDERGROUND OR CONCEALE	D IN	0	TELEPHONE/DATA OU FLOOR BOX WITH CO		ONS OUTLET							
\	FLOOR SLAB. TELEPHONE CONDUIT			TELEVISION ANTENNA TELEPHONE CABINET		od board							
LV	LOW VOLTAGE CONDUIT AND WIRING				UN TENU								
1	<u>IGHTING</u>			SECURITY CLOSED CIRCUIT TV (
	BATTERY OPERATED EMERGENCY LIGHT (WALL	MOUNTED)		CARD READER									
	BATTERY OPERATED EMERGENCY LIGHT (CEILI	NG MOUNTED)	DL M	DOOR LOCK SECURITY MONITOR									
\bigcirc	SURFACE/RECESSED LIGHT FIXTURE		WT	WATCH TOUR									
•	FLUORESCENT LIGHT FIXTURE		EDL \$ s	ELECTRIC DOOR LOCK MOTION SENSOR - S									
	FLUORESCENT STRIP FIXTURE		₽s	MOTION SENSOR (WAI	ll mounte	D) — SECURI	ΤΥ						
	SHADING DENOTES EMERGENCY FIXTURE		_										
	POLE MOUNTED LIGHT FIXTURE		M	PUBLIC ADDRES									
	EXIT LIGHT – DOUBLE FACE – ARROWS AS EXIT LIGHT – SINGLE FACE – ARROWS AS		(S) _H	SPEAKER. ('H' DENG	DTES HORN	I TYPE)							
<u>\$ \$³ \$⁴ \$^K \$^{LV} \$⁄^</u>	LIGHTING SWITCHES-SINGLE POLE, 3-WAY, 4 KEY, LOW VOLTAGE, PILOT LIGHT	-WAY,		SPEAKER VOLUME CC SPEAKER CONDUIT AN									
\$ ^D	DIMMER WITH SINGLE POLE SWITCH		PA	PUBLIC ADDRESS AMF	PLIFIER ANI	d cabinet							
\$ ^{D 3} \$ ^M	DIMMER WITH THREE WAY SWITCH (WATTAGE WALL MOUNTED MOTION SENSOR	NOTED)	<u> </u>	BUZZER BELL									
⇒ ♦ (A)	CEILING MOUNTED MOTION SENSOR		I I _M	INTERCOM OUTLET	MASTER								
♥(A) &\$.	(LETTER DENOTES TYPE) SWITCH AND DUPLEX RECEPTACLE		© _D	CLOCK SYSTEM RECE FACE ('D' DENOTES I	PTACLE WI								
К)	DENOTES A WALL MOUNTED FIXTURE		U	FACE (D DENOTES I	JUUDLE FA	UE)							
	VIRING DEVICES		_	POWER DEVICE	AND C		<u>S</u>						
¢=	DUPLEX RECEPTACLE. LINE THRU DEVICE INDICATES ABOVE COUNT	ER		THERMOSTAT DISCONNECT SWITCH.	30A-3P,	NON-FUSED							
	DUPLEX RECEPTACLE WITH ISOLATED GROUN (SINGLE AND FOURPLEX SIMILAR)	C		EXCEPT AS NOTED	PTFR								
O_	DUPLEX RECEPTACLE – TOP HALF SWITCHEE		\square	MAGNETIC MOTOR STA									
Ű	BOTTOM HALF TO HAVE POWER AT ALL TIME DUPLEX RECEPTACLE ON EMERGENCY POWER		$\boxtimes^{\!$	COMBINATION MOTOR SWITCH	STARTER A	AND DISCONNE	ECT						
⊖ EM	(SINGLE AND FOURPLEX SIMILAR)	Υ.	0	MOTOR									
□	FOURPLEX RECEPTACLE SINGLE RECEPTACLE			PANELBOARD (SEE OI	NE-LINE)								
¢	CEILING MOUNTED RECEPTACLE MULTI-SERVICE FLOOR BOX			DISTRIBUTION PANELB	BOARD								
	DIVIDED POWER POLE			CONTACTOR									
\	FLOOR BOX W/DUPLEX RECEPTACLE SPECIAL RECEPTACLE W/NEMA CONFIGURATIO		PC	AUTOMATIC TRANSFER PHOTOCELL	SWITCH								
٢	AS NOTED		J	JUNCTION BOX									
	CLOCK RECEPTACLE MULTI-OUTLET ASSEMBLY			PUSHBUTTON TRANSFORMER									
A A	AMPS, AIR (COMPRESSED) DX	DIRECT EXP.	ANSION		НТG	HEATING			MUAF	MAKE UP AIR FAN	SD	SUPPLY DIFFUSER, SMOK	e damper
,	AIR CONDITIONING EA	EXHAUST AI Entering A		TURE	htr hvu	HEATER HEATING	AND VENTILATING	UNIT	M∨ N	MIXING VALVE NITROGEN	SDCW SDHW		
	ABOVE FINISH CEILING EC ABOVE FINISH GRADE EF	ELECTRICAL EXHAUST FA		DR, EMPTY CONDUIT	HW HWR		C HOT WATER TER RETURN		N/A N/C	NOT APPLICABLE Normally closed	SDRHW SF	SOFT DOMESTIC RECIRCU SQUARE FEET	LATION HOT WATEF
	AIR HANDLING UNIT EM			CIRCUIT	HWK		TER SUPPLY		N/O	NORMALLY OPEN	SP	STATIC PRESSURE	
	ABOVE FINISHED FLOOR EPO BACKDRAFT DAMPER, BLOWDOWN ER	EMERGENCY Exhaust re		-	IE IG	INVERT E ISOLATED	ELEVATION) GROUND		NF NIC	INDICATES NON-FUSED DEVICE NOT IN CONTRACT	SR ST	SUPPLY REGISTER STORM	
BFP B	BACKFLOW PREVENTER ETR				KCMIL	1000 CIR	CULAR MILS		NL	NIGHT LIGHT	ST/O	STORM OVERFLOW	
	BREAKER EWB BOTTOM OF DUCT EWC			R	KV KVA	KILOVOLT KILOVOLT			NO OA	NITROUS OXIDE OUTSIDE AIR	STM SWBD	LOW PRESSURE STEAM SWITCHBOARD	
	BOTTOM OF PIPE EWH BOTTOM OF STRUCTURE EXH		ATER HEATE	R, ELEC. WALL HTR.	КW КWH	KILOWAT ⁻ KILOWAT ⁻			ORD	OVERFLOW ROOF DRAIN OXYGEN	TSTAT TU	THERMOSTAT TERMINAL UNIT	
BTU B	BRITISH THERMAL UNIT F/S	COMBINATIO		SMOKE DAMPER	LAT	LEAVING	AIR TEMPERATURE	Ξ	OX PD	PUMP DISCHARGE	TU TW	TEMPERED WATER	
	CONDUIT FACE CABLE TELEVISION SYSTEM FAAC			PANEL For control panel	LDB LP		DRY BULB) PETROLEUM		PH PIV	PHASE Post indicator valve	UH UL	UNIT HEATER UNDERWRITERS LABORAT(ORIES INC.
CB C	CIRCUIT BREAKER FCO	FLOOR CLEA	ANOUT		LRA	LOCKED	ROTOR AMPS		PNL	PANEL	UNO	UNLESS NOTED OTHERWIS	SE
	CLOSED CIRCUIT TELEVISION FCU CUBIC FEET PER MINUTE FD			RAIN	LV LWB	LOW VOL LEAVING	.TAGE WET BULB		PRV QTY	PRESSURE REDUCING VALVE QUANTITY	UPS V	UNINTERRUPTIBLE POWER VENT PIPE	SUPPLY
	CHILLED/HOT WATER RETURN FLA CHILLED/HOT WATER SUPPLY FLR		AMPS		LWT MA	LEAVING MEDICAL	WATER TEMPERATU AIR	URE	RA RD	RETURN AIR ROOF DRAIN	VAC VAV	MEDICAL VACUUM VARIABLE AIR VOLUME	
СКТ С	CIRCUIT FOR	FUEL OIL RE			MAU	MAKE UF	P AIR UNIT		REV	REVISION	VD	VOLUME DAMPER	
	CLEANOUT, CARBON MONOXIDE FOS CARBON DIOXIDE FP	FUEL OIL SI FIRE PROTE			MBH MC		U PER HOUR CAL CONTRACTOR		RG RH	RETURN GRILLE RELATIVE HUMIDITY	VTR W	VENT THROUGH ROOF WIRE, WATT(S)	
CTR C	COOLING TOWER RETURN FPB	FAN POWER	RED TERMINA		MCA	MINIMUM	CIRCUIT AMPACITY		RHW	DOMESTIC RECIRCULATION HOT WATER	W/	WITH	
	COOLING TOWER SUPPLY FPVA			al UNII	MCC MD		CONTROL CENTER ED DAMPER		RL RLA	REFRIGERANT LIQUID RUNNING LOAD AMPS	W\O WB	WITHOUT WET BULB	
	CABINET UNIT HEATER G	× ×	,	IND	MDP MFR	MAIN DIS Manufa(STRIBUTION PANEL		RPM RS	REVOLUTIONS PER MINUTE REFRIGERANT SUCTION	WCO WH	WALL CLEANOUT Wall hydrant	
CWR C	CHILLED WATER RETURN GFI/GF			T INTERRUPTER	MF R MH	MANHOLE	-		RTN	LOW PRESSURE CONDENSATE RETURN	WH WP	WEATHERPROOF	
	CHILLED WATER SUPPLY GND DIRECT DIGITAL CONTROL GPM		er minutf		MLO MTD	MAIN LUC Mounted			RTU SA	ROOF TOP UNIT SUPPLY AIR	XFMR XP	TRANSFORMER EXPLOSION PROOF	
DD D	DECK DRAIN HB	HOSE BIBB			MU	MAKE UF			SAN	SANITARY			-
DN D	OOWN HOA	HAND OFF	AUTOMATIC				-			CTRICAL SYMBOLS A			
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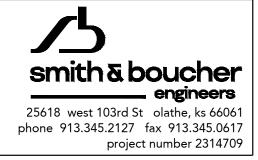
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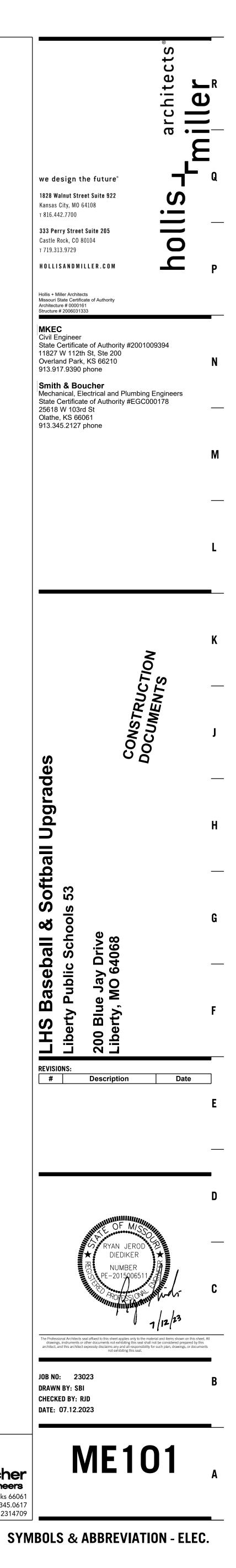
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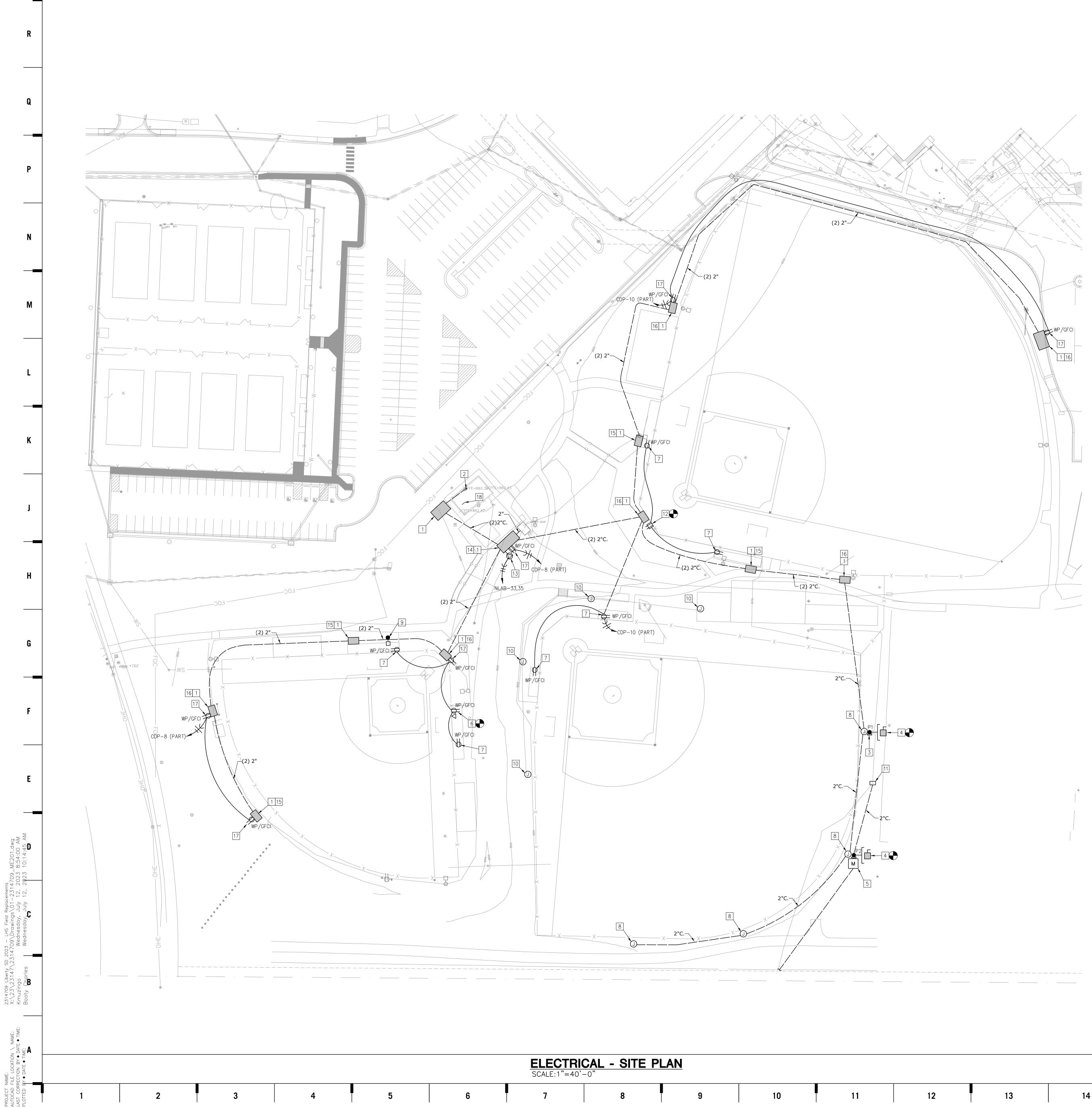
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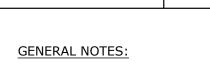
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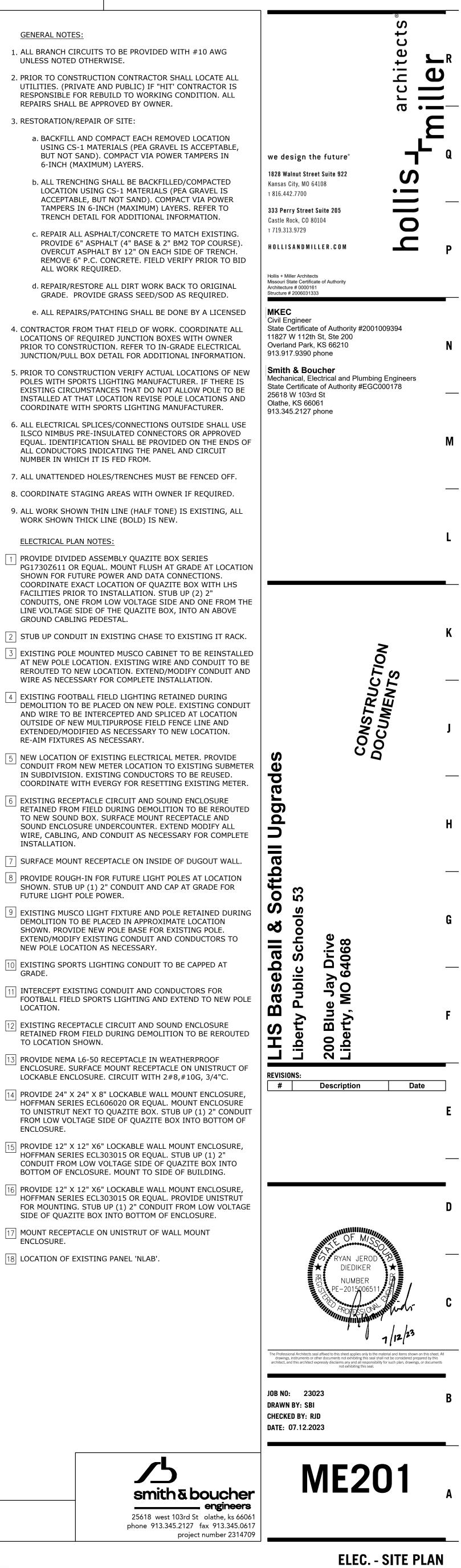
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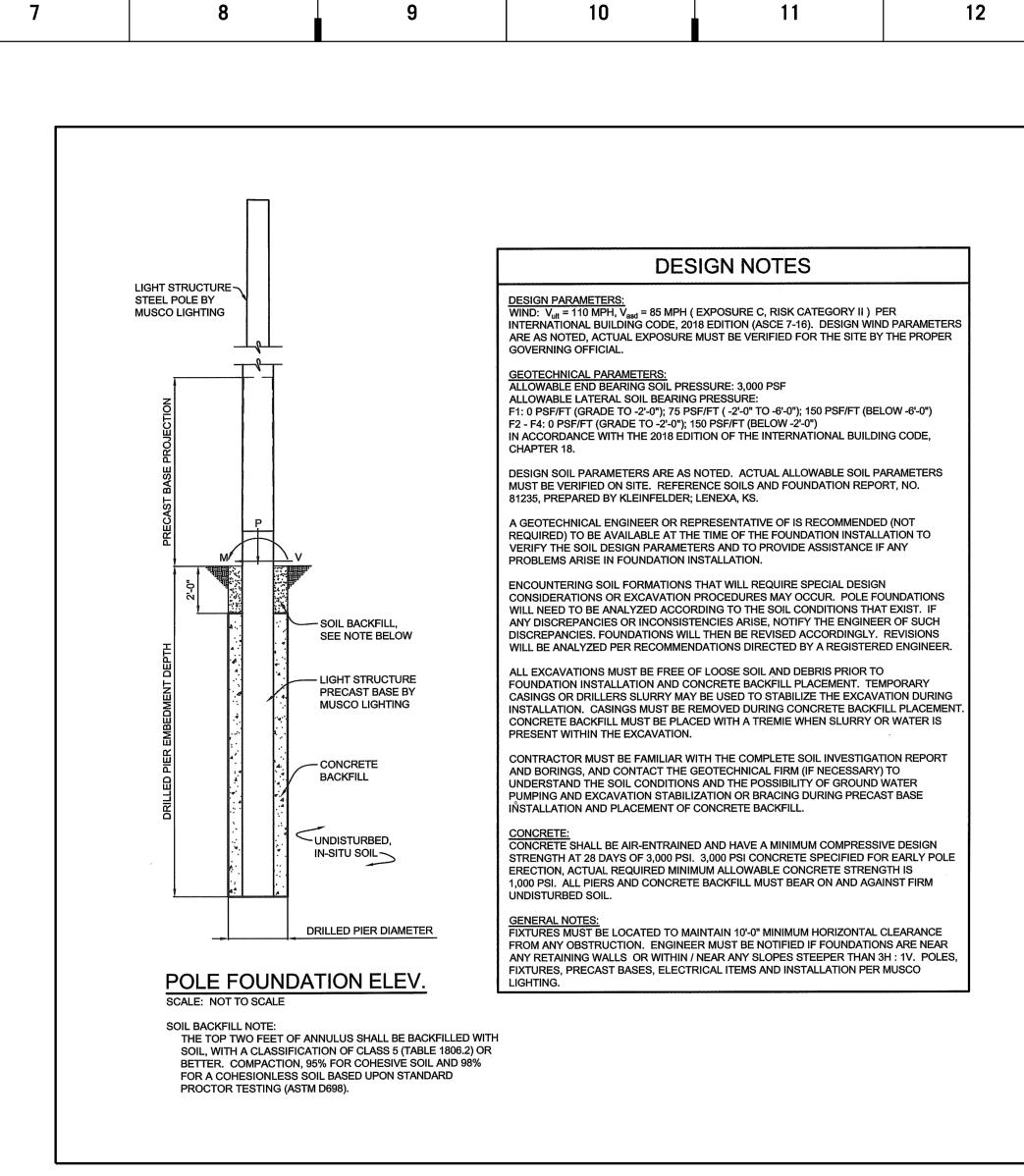
ELECTRI SCALE:1"=40	ICAL - SITE P	PLAN			
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- 1. ALL BRANCH CIRCUITS TO BE PROVIDED WITH #10 AWG UNLESS NOTED OTHERWISE. 2. PRIOR TO CONSTRUCTION CONTRACTOR SHALL LOCATE ALL
- REPAIRS SHALL BE APPROVED BY OWNER.
- 3. RESTORATION/REPAIR OF SITE:
 - a. BACKFILL AND COMPACT EACH REMOVED LOCATION USING CS-1 MATERIALS (PEA GRAVEL IS ACCEPTABLE, BUT NOT SAND). COMPACT VIA POWER TAMPERS IN 6-INCH (MAXIMUM) LAYERS.
 - b. ALL TRENCHING SHALL BE BACKFILLED/COMPACTED LOCATION USING CS-1 MATERIALS (PEA GRAVEL IS ACCEPTABLE, BUT NOT SAND). COMPACT VIA POWER TAMPERS IN 6-INCH (MAXIMUM) LAYERS. REFER TO TRENCH DETAIL FOR ADDITIONAL INFORMATION.
 - c. REPAIR ALL ASPHALT/CONCRETE TO MATCH EXISTING PROVIDE 6" ASPHALT (4" BASE & 2" BM2 TOP COURSE). OVERCUT ASPHALT BY 12" ON EACH SIDE OF TRENCH. REMOVE 6" P.C. CONCRETE. FIELD VERIFY PRIOR TO BID ALL WORK REQUIRED.
 - d. REPAIR/RESTORE ALL DIRT WORK BACK TO ORIGINAL GRADE. PROVIDE GRASS SEED/SOD AS REQUIRED.
- 4. CONTRACTOR FROM THAT FIELD OF WORK. COORDINATE ALL LOCATIONS OF REQUIRED JUNCTION BOXES WITH OWNER PRIOR TO CONSTRUCTION. REFER TO IN-GRADE ELECTRICAL
- 5. PRIOR TO CONSTRUCTION VERIFY ACTUAL LOCATIONS OF NEW POLES WITH SPORTS LIGHTING MANUFACTURER. IF THERE IS EXISTING CIRCUMSTANCES THAT DO NOT ALLOW POLE TO BE INSTALLED AT THAT LOCATION REVISE POLE LOCATIONS AND COORDINATE WITH SPORTS LIGHTING MANUFACTURER.
- 6. ALL ELECTRICAL SPLICES/CONNECTIONS OUTSIDE SHALL USE ILSCO NIMBUS PRE-INSULATED CONNECTORS OR APPROVED EQUAL. IDENTIFICATION SHALL BE PROVIDED ON THE ENDS OF ALL CONDUCTORS INDICATING THE PANEL AND CIRCUIT NUMBER IN WHICH IT IS FED FROM.
- 7. ALL UNATTENDED HOLES/TRENCHES MUST BE FENCED OFF.
- 8. COORDINATE STAGING AREAS WITH OWNER IF REQUIRED.
- 9. ALL WORK SHOWN THIN LINE (HALF TONE) IS EXISTING, ALL WORK SHOWN THICK LINE (BOLD) IS NEW.
- ELECTRICAL PLAN NOTES:
- 1 PROVIDE DIVIDED ASSEMBLY QUAZITE BOX SERIES PG1730Z611 OR EQUAL. MOUNT FLUSH AT GRADE AT LOCATION SHOWN FOR FUTURE POWER AND DATA CONNECTIONS. COORDINATE EXACT LOCATION OF QUAZITE BOX WITH LHS FACILITIES PRIOR TO INSTALLATION. STUB UP (2) 2" CONDUITS, ONE FROM LOW VOLTAGE SIDE AND ONE FROM THE LINE VOLTAGE SIDE OF THE QUAZITE BOX, INTO AN ABOVE GROUND CABLING PEDESTAL.
- 3 EXISTING POLE MOUNTED MUSCO CABINET TO BE REINSTALLED AT NEW POLE LOCATION. EXISTING WIRE AND CONDUIT TO BE REROUTED TO NEW LOCATION. EXTEND/MODIFY CONDUIT AND WIRE AS NECESSARY FOR COMPLETE INSTALLATION.
- 4 EXISTING FOOTBALL FIELD LIGHTING RETAINED DURING DEMOLITION TO BE PLACED ON NEW POLE. EXISTING CONDUIT AND WIRE TO BE INTERCEPTED AND SPLICED AT LOCATION OUTSIDE OF NEW MULTIPURPOSE FIELD FENCE LINE AND EXTENDED/MODIFIED AS NECESSARY TO NEW LOCATION. RE-AIM FIXTURES AS NECESSARY.
- 5 NEW LOCATION OF EXISTING ELECTRICAL METER. PROVIDE CONDUIT FROM NEW METER LOCATION TO EXISTING SUBMETER IN SUBDIVISION. EXISTING CONDUCTORS TO BE REUSED. COORDINATE WITH EVERGY FOR RESETTING EXISTING METER.
- 6 EXISTING RECEPTACLE CIRCUIT AND SOUND ENCLOSURE RETAINED FROM FIELD DURING DEMOLITION TO BE REROUTED TO NEW SOUND BOX. SURFACE MOUNT RECEPTACLE AND SOUND ENCLOSURE UNDERCOUNTER. EXTEND MODIFY ALL WIRE, CABLING, AND CONDUIT AS NECESSARY FOR COMPLETE INSTALLATION.
- 7 SURFACE MOUNT RECEPTACLE ON INSIDE OF DUGOUT WALL.
- SHOWN. STUB UP (1) 2" CONDUIT AND CAP AT GRADE FOR FUTURE LIGHT POLE POWER.
- 9 EXISTING MUSCO LIGHT FIXTURE AND POLE RETAINED DURING DEMOLITION TO BE PLACED IN APPROXIMATE LOCATION SHOWN. PROVIDE NEW POLE BASE FOR EXISTING POLE. EXTEND/MODIFY EXISTING CONDUIT AND CONDUCTORS TO NEW POLE LOCATION AS NECESSARY.
- 10 EXISTING SPORTS LIGHTING CONDUIT TO BE CAPPED AT GRADE.
- 11 INTERCEPT EXISTING CONDUIT AND CONDUCTORS FOR ^{-/} FOOTBALL FIELD SPORTS LIGHTING AND EXTEND TO NEW POLE LOCATION.
- 12 EXISTING RECEPTACLE CIRCUIT AND SOUND ENCLOSURE RETAINED FROM FIELD DURING DEMOLITION TO BE REROUTED TO LOCATION SHOWN.
- 3 PROVIDE NEMA L6-50 RECEPTACLE IN WEATHERPROOF ENCLOSURE. SURFACE MOUNT RECEPTACLE ON UNISTRUCT OF LOCKABLE ENCLOSURE. CIRCUIT WITH 2#8,#10G, 3/4"C.
- 14 PROVIDE 24" X 24" X 8" LOCKABLE WALL MOUNT ENCLOSURE, HOFFMAN SERIES ECL606020 OR EQUAL. MOUNT ENCLOSURE TO UNISTRUT NEXT TO QUAZITE BOX. STUB UP (1) 2" CONDUIT FROM LOW VOLTAGE SIDE OF QUAZITE BOX INTO BOTTOM OF ENCLOSURE.
- 15 PROVIDE 12" X 12" X6" LOCKABLE WALL MOUNT ENCLOSURE, HOFFMAN SERIES ECL303015 OR EQUAL. STUB UP (1) 2" CONDUIT FROM LOW VOLTAGE SIDE OF QUAZITE BOX INTO BOTTOM OF ENCLOSURE. MOUNT TO SIDE OF BUILDING.
- 16 PROVIDE 12" X 12" X6" LOCKABLE WALL MOUNT ENCLOSURE, HOFFMAN SERIES ECL303015 OR EQUAL. PROVIDE UNISTRUT FOR MOUNTING. STUB UP (1) 2" CONDUIT FROM LOW VOLTAGE SIDE OF QUAZITE BOX INTO BOTTOM OF ENCLOSURE.
- 17 MOUNT RECEPTACLE ON UNISTRUT OF WALL MOUNT ENCLOSURE.
- 18 LOCATION OF EXISTING PANEL 'NLAB'.



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PANEL MAIN BUS AMPS: MAIN BREAKER:	CDP (ETF 60 A 60 A	AIC	C: ECTIONS:		65,000 A 1-24 SPACE			EQUIPMENT GROUND BUS
VOLTAGE: PHASES/WIRES:		MOUNTING: ENCLOSURE TYPE:			SURFACE NEMA 1			SERVICE ENTRANCE
CIRCUIT DESCRIPTION		POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION
	EXISTING LOAD	1	20	1	2	20	1	EXISTING LOAD
		2	20	3	4	20	1	EXISTING LOAD
				5	6	20	1	EXISTING LOAD
	EXISTING LOAD	1	20	7	8	20 (NOTE 1)	1	REC - SOFTBALL / DOCK POWER
	EXISTING LOAD	1	20	9	10	20 (NOTE 1)	1	REC - MULTIPURPOSE / BASEBALI
	EXISTING LOAD	2	20	11	12	30	2	EXISTING LOAD
				13	14			
	EXISTING LOAD	2	20	15	16	30	2	EXISTING LOAD
				17	18]		
	EXISTING LOAD	1	20	19	20			
	EXISTING LOAD	2	30	21	22	40	2	EXISTING LOAD
				23	24]		

17

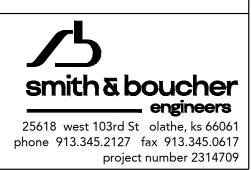
NOTES: 1. IRRIGATION POWER TO BE REMOVED FROM PANEL PER SCOPE, RE:CIVIL. CONTRACTOR TO VERIFY LOAD ON CIRCUIT BREAKERS POST DEMOLITION PRIOR TO INSTALLATION OF NEW LOADS AS SHOWN.

MAIN BUS AMPS: MAIN BREAKER: VOLTAGE:	NLAB (E7 100 A 100 A 208Y/120 V 3 PH / 4 W	AIC SE MC		TYPE:	65,000 A 1 - 42 SPA SURFACE NEMA 1	CE		EQUIPMENT GROUND BUS SERVICE ENTRANCE
CIRCUIT DESCI	RIPTION	POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION
	EXISTING LOAD	1	20	1	2	20	1	EXISTING LOAD
	EXISTING LOAD	1	20	3	4	20	1	EXISTING LOAD
	EXISTING LOAD	1	20	5	6	20	1	EXISTING LOAD
	EXISTING LOAD	1	20	7	8	20	1	EXISTING LOAD
	EXISTING LOAD	1	20	9	10	20	1	EXISTING LOAD
	EXISTING LOAD	1	20	11	12	20	1	EXISTING LOAD
	EXISTING LOAD	1	20	13	14	20	1	EXISTING LOAD
	EXISTING LOAD	1	20	15	16	20	1	EXISTING LOAD
	EXISTING LOAD	1	20	17	18	40	2	EXISTING LOAD
	EXISTING LOAD	1	20	19	20			
	EXISTING LOAD	2	30	21	22	40	2	EXISTING LOAD
				23	24			
	EXISTING LOAD	2	30	25	26	30	2	EXISTING LOAD
				27	28			
	EXISTING LOAD	2	30	29	30	20	1	EXISTING LOAD
				31	32	20	1	EXISTING LOAD
DOCK SP	ECIAL RECEPT.	2	50	33	34	20	2	EXISTING LOAD
				35	36			
	SPACE	1		37	38	100	3	MAIN BREAKER
	SPACE	1		39	40			
	SPACE	1		41	42			

PROP	OSED SP	ORTS LIGH	TING POLE	SCHEDULE -	TENNIS COURTS			
POLE	CIRCUIT NAME	# FIXTURES/POLE	LUMINAIRE TYPE	POLE TYPE	POLE HEIGHT	MOUNTING HEIGHT		
P1	FOOTBALL FIELD	3	EXISTING	ROUND STEEL TAPERED	60'-0" (NOTE 1)	60'-0" (NOTE 2)		
P2	FOOTBALL FIELD	3	EXISTING	ROUND STEEL TAPERED	60'-0" (NOTE 1)	60'-0" (NOTE 2)		

NOTES:

1. PROVIDE POLE AND POLE BASE PER MANUFACTUER'S RECOMMENDATIONS. 2. MOUNT EXISTING LIGHTS RETAINED DURING DEMOLITION ON NEW POLE AT EXISTING HEIGHT. RE-AIM FIXTURES AS NECESSARY.



13

14

