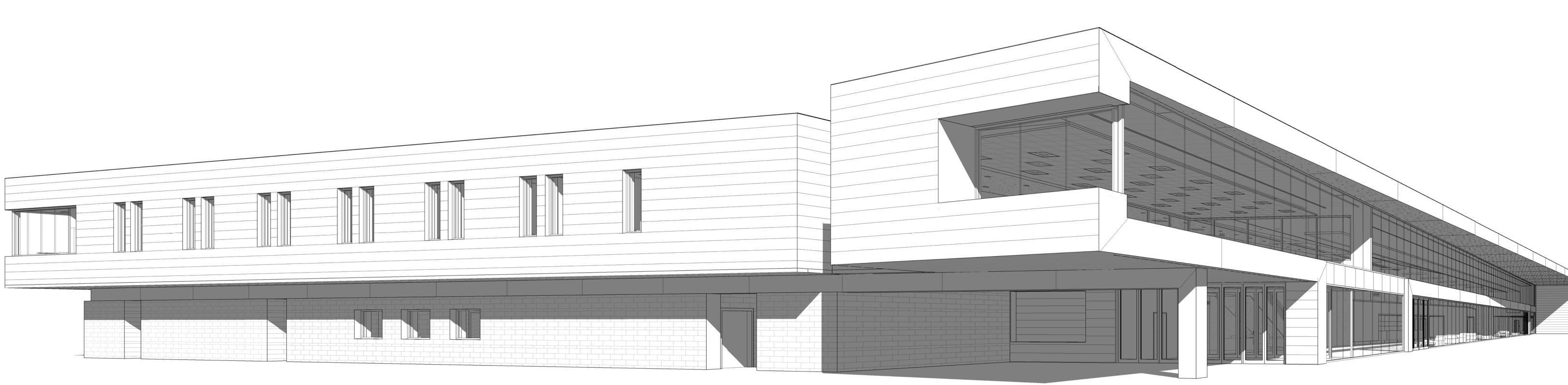
JOLIET JUNIOR COLLEGE MULTI-PURPOSE FACILITY

1215 HOUBOLT ROAD, JOLIET, IL 60431

DKA PROJECT NO: 14-004





ARCHITECT:

DEMONICA KEMPER ARCHITECTS 125 N. HALSTED ST., SUITE 301 CHICAGO, IL 60661 T: 312.496.0000 F: 312.496.0001

STRUCTURAL AND MEP ENGINEERING CIVIL ENGINEERING

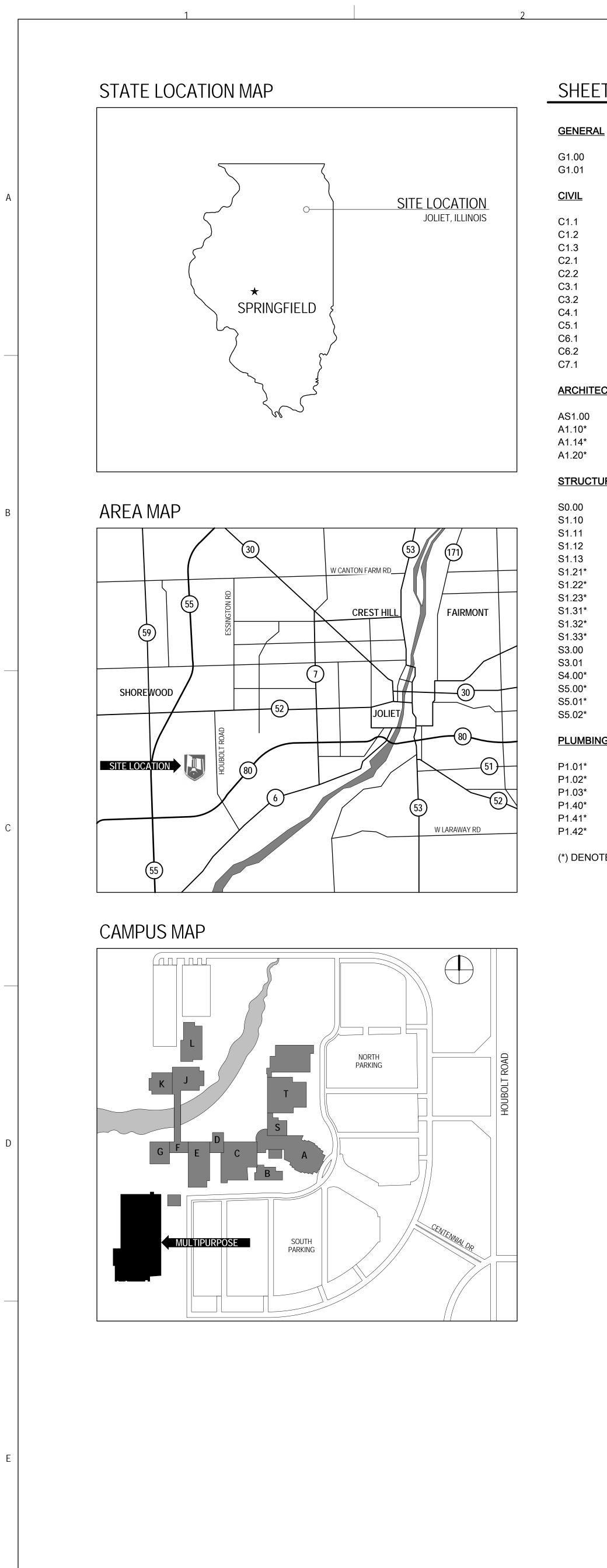
KJWW ENGINEERING CONSULTANTS 1100 WARRENVILLE RD., STE. 400W NAPERVILLE, IL 60563 P: 630.527.2320

RUETTIGER, TONELLI & ASSOC., INC. 129 CAPISTA DR. SHOREWOOD, IL 60404 P: 815.744.6600

BID PACKAGE 1 - ISSUED FOR BID 2015-06-01







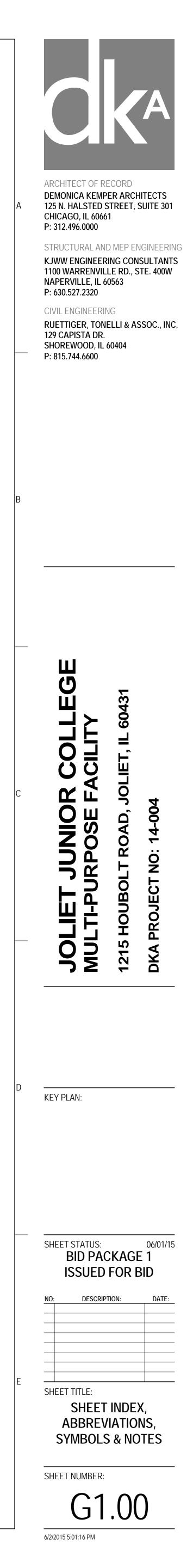
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0*	ALTERNATE 1 PLANS – PLUMBING
1*	ALTEDNATE 2 DEANS DELIMBING

1*ALTERNATE 2 PLANS – PLUMBING2*ALTERNATE 3 PLANS – PLUMBING

(*) DENOTES SHEET INCLUDED 'FOR REFERENCE ONLY'



1					
COUST	ACCESS PANEL ACOUSTICAL	HDW HDWD	HARDWARE HARDWOOD	TEL TV	TELEPHONE TELEVISION
)J	ACOUSTICAL CEILING TILE ADJACENT	HDR HTG	HEADER HEATING	TRZ TB	TERRAZZO TILE BASE
GR	ABOVE FINISH FLOOR AGGREGATE	HVAC HT	HEATING, VENTILATING, AIR CONDITIONING HEIGHT	THK T.O.C.	THICK TOP OF CURB
Т	AIR CONDITIONING ALTERNATE	HC HM	HOLLOW CORE HOLLOW METAL	TOP TOW	TOP OF PAVEMENT TOP OF WALL
	ALUMINUM ANGLE	hmf Horz	HOLLOW METAL FRAME HORIZONTAL	T&G TYP	TONGUE AND GROOVE TYPICAL
	APPROVED APPROXIMATE	HB HR	HOSE BIB HOUR	UNF	UNFINISHED
RCH	ARCHITECTURAL OR ARCHITECT AREA DRAIN	INC	INCLUDE	U.N.O. UR	UNLESS NOTED OTHERWISE URINAL
βB	ASBESTOS ASPHALT	I.D. INSUL	INSIDE DIAMETER INSULATION	VB	VINYL BASE
	AUDIO VISUAL	INTR	INTERIOR INVERT	VERT VEST	VERTICAL VESTIBULE
	BASEMENT			VCT VW	VINYL COMPOSITION TILE VINYL WALLCOVERING
1	BEARING BEAM	JAN JT	JANITOR JOINT		
ГUМ	BETWEEN BITUMINOUS	KIT LAM	KITCHEN LAMINATE	WSCT WC	WAINSCOT WATER CLOSET
KG	BLOCK BLOCKING	LAV LH	LAVATORY LEFT HAND	WLK WR	WALK-OFF MAT WATER RESISTANT
2K	BOARD BRICK	LGTH LT	LENGTH LIGHT	WT W	WALL TILE OR WEIGHT WEST
	BUILDING	LWC LTL	LIGHT WEIGHT CONCRETE LINTEL	W W	WIDE FLANGE "W16x21" WIDTH
C	CABINET CAST IN PLACE	LN LL	LINOLEUM LIVE LOAD	W/ W/O	WITH WITHOUT
	CAST IN PLACE CONCRETE CURB INLET	MH	MANHOLE	WD WDP	WOOD WOOD PANEL
	CATCH BASIN CEILING	MFR MAS	MANUFACTURER MASONRY	Х	EXISTING
R	CENTER CONTROL JOINT	MO MTL	MASONRY OPENING METAL		
	CENTER LINE CARPET	MAX MECH	MAXIMUM MECHANICAL		
-	CERAMIC TILE CLEAR	MEON MTC MEMB	MECHANICAL TRADES CONTRACTOR MEMBRANE		
0	CLOSET	MT	MARBLE TILE		
DNC	COLUMN CONCRETE	MIN MISC	MINIMUM MISCELLANEOUS		
DNST	CONNECTION CONSTRUCTION	MTD MTG	MOUNDED MOUNTING		
DNT	CONSTRUCTION MANAGER CONTINUOUS OR CONTINUE	MUL	MULLION		
	CONTRACTOR	NOM N	NOMINAL		
ISK	CORRIDOR COUNTERSUNK	N.I.C. N.T.S.	NOT IN CONTRACT NOT TO SCALE		
RS	COURSE	NO OR #	NUMBER		
PT	DEMOLISH OR DEMOLITION DEPARTMENT	OBS OFF	OBSCURE OFFICE		
	DEAD LOAD DIAMETER	O.C. OPNG	ON CENTER OPENING		
M	DIMENSION DISPENSER	OPP OSB	OPPOSITE ORIENTED STRAND BOARD		
V	DIVISION DOOR	O.D. OA	OUTSIDE DIAMETER OVERALL		
)	DOOR OPENING DOUBLE	OFD	OVERFLOW DRAIN		
)	DOWNSPOUT	PT	PAINT		
VG	DRAWER DRAWING	PTD PR	PAINTED PAIR DANEL		
)	DRINKING FOUNTAIN DRY STANDPIPE	PNL PBD	PANEL PARTICLE BOARD		
	DETECTABLE WARNING TILE	PTN PLAS	PARTITION PLASTIC		
	EAST EACH	P-LAM PL	PLASTIC LAMINATE PLATE		
	EXTERIOR INSULATION FINISH SYSTEM ELECTRICAL	PTC PLYWD	PLUMBING TRADES CONTRACTOR PLYWOOD		
	ELECTRICAL TRADES CONTRACTOR ELECTRICAL WATER COOLER	PSI PC	POUNDS PER SQUARE INCH PRECAST		
	ELECTRICAL PANEL BOARD ELEVATION	PCC	PRECAST CONCRETE		
EV	ELEVATION ELEVATOR	QT R	QUARRY TILE RADIUS		
ICL	ENCLOSURE EMERGENCY	RWL RFRG	RAIN WATER LEADER REFRIGERATOR		
PT	EPOXY PAINT	RGTR	REGISTER		
)	EPOXY FLOORING EQUAL	REINF RQD	REINFORCED REQUIRED		
	EQUIPMENT EXISTING	RES RA	RESILIENT RETURN AIR		
IP JT	EXPANSION EXPANSION JOINT	RAG RH	RETURN AIR GRILLE RIGHT HAND		
	EXPOSED EXTERIOR	ROW R	RIGHT OF WAY RISER		
		RD RM	ROOF DRAIN ROOM		
	FACE OF CONCRETE FACE OF FINISH	R.O. RB	ROUGH OPENING RUBBER BASE		
S	FACE OF STUD FIBERGLASS REINFORCED PANEL	SECT	SECTION		
N	FINISH OR FINISHED	SK	SINK		
	FIRE ALARM FIRE EXTINGUISHER	SCHED SHTG	SCHEDULE SHEATHING		
IC	FIRE EXTINGUISHER CABINET FIRE HOSE CABINET	SHT SV	SHEET SHEET VINYL		
	FIREPROOF FLAT BAR STOCK	SHWR SIM	SHOWER SIMILAR		
	FLOOR FLOOR DRAIN	SC SPM	SEALED CONCRETE SINGLE PLY MEMBRANE		
UOR	FLUORESCENT FOOT OR FEET	S S SFRM	SOUTH SPRAY APPLIED FIRE RESISTIVE MATERIAL		
G	FOOTING FOUNDATION	SPEC SQ	SPECIFICATION SQUARE		
2M	FRAME FRAMING	S.S. STD	STAINLESS STEEL STANDARD		
	FULL SIZE	STA	STATION		
ITR	FURRING FUTURE	STL STOR	STEEL STORAGE STRUCTURE OR STRUCTURAL		
	FABRIC WALLCOVERING	STRUCT SUSP	STRUCTURE OR STRUCTURAL SUSPENDED		
ALV .	GAUGE GALVANIZED	SAT SYM	SUSPENDED ACOUSTICAL TILE SYMMETRICAL		
	GENERAL GENERAL CONTRACTOR				
	GENERAL TRADES CONTRACTOR GLASS OR GLAZING				
) ID	GRADE GROUND				
	GYPSUM BOARD				

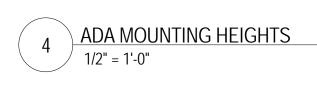
3

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MATERIAL DESIGNATIONS:

	ALUMINUM
· · · · · · · · · · · · · · · · · · ·	CONCRETE, PRECAST CONCRETE
	GRANULAR BASE
	CONCRETE MASONRY BLOCK
0 0	GROUT / GYP. BD.
	FACE BRICK MASONRY
6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	FACE BRICK MASONRY
	EARTH
	SAND
	PLYWOOD
	WOOD BLOCKING (CONTINUOUS)
	WOOD BLOCKING (SHIM, STRIP)
	RIGID INSULATION
	SPRAY FOAM INSULATION
	SPRAY APPLIED FIRE PROOFING
	STEEL
	EXTERIOR WEATHER BARRIER INS
	BACKER ROD AND SEALANT

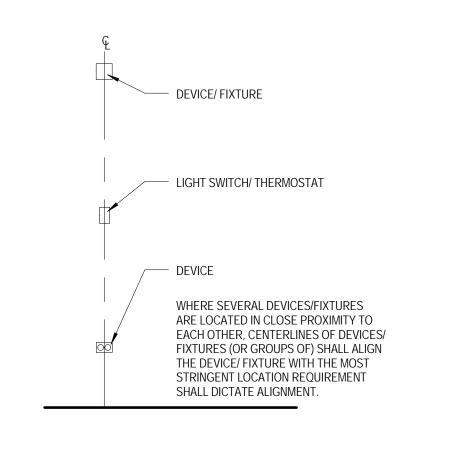


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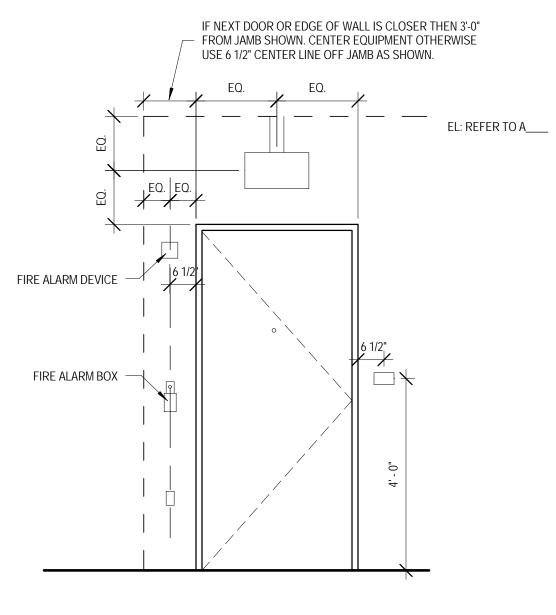


, PRECAST CONCRETE

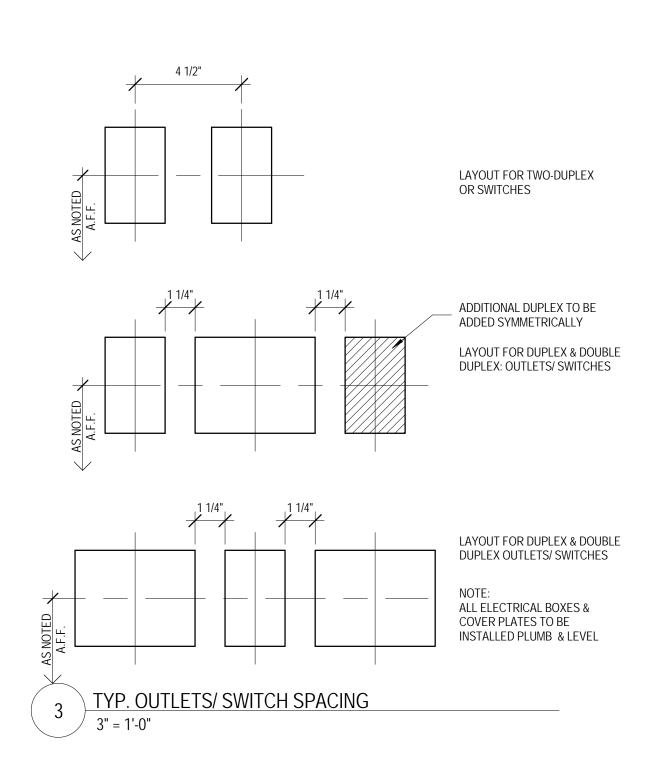
VEATHER BARRIER INSULATION

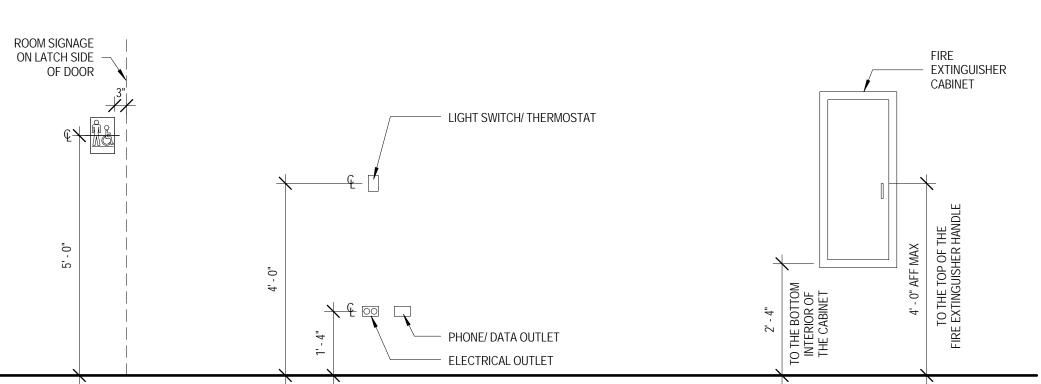






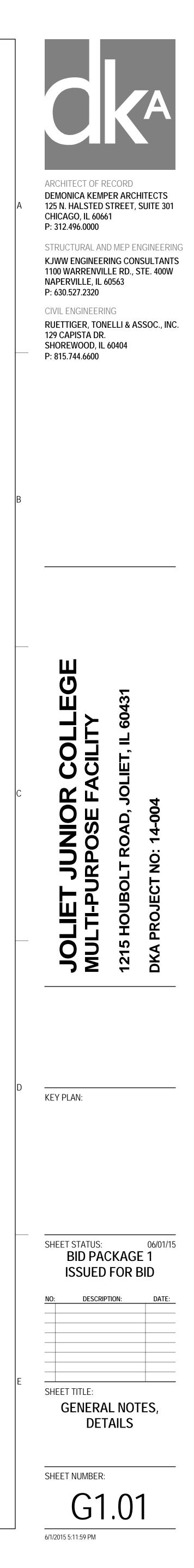
ROOM INTERIORS TYP. EQUIPMENT LAYOUT @ DOORS 2 NOTE: IN THE EVENT OF A CONFLICT BETWEEN DIMENSIONS SHOWN ON THIS DRAWING AND ANY OTHER ARCHITECTURAL, ELECTRICAL, OR MECHANICAL SHEETS OR SPECIFICATIONS, NOTIFY ARCHITECT OF DISCREPANCY. / 1/2" = 1'-0"

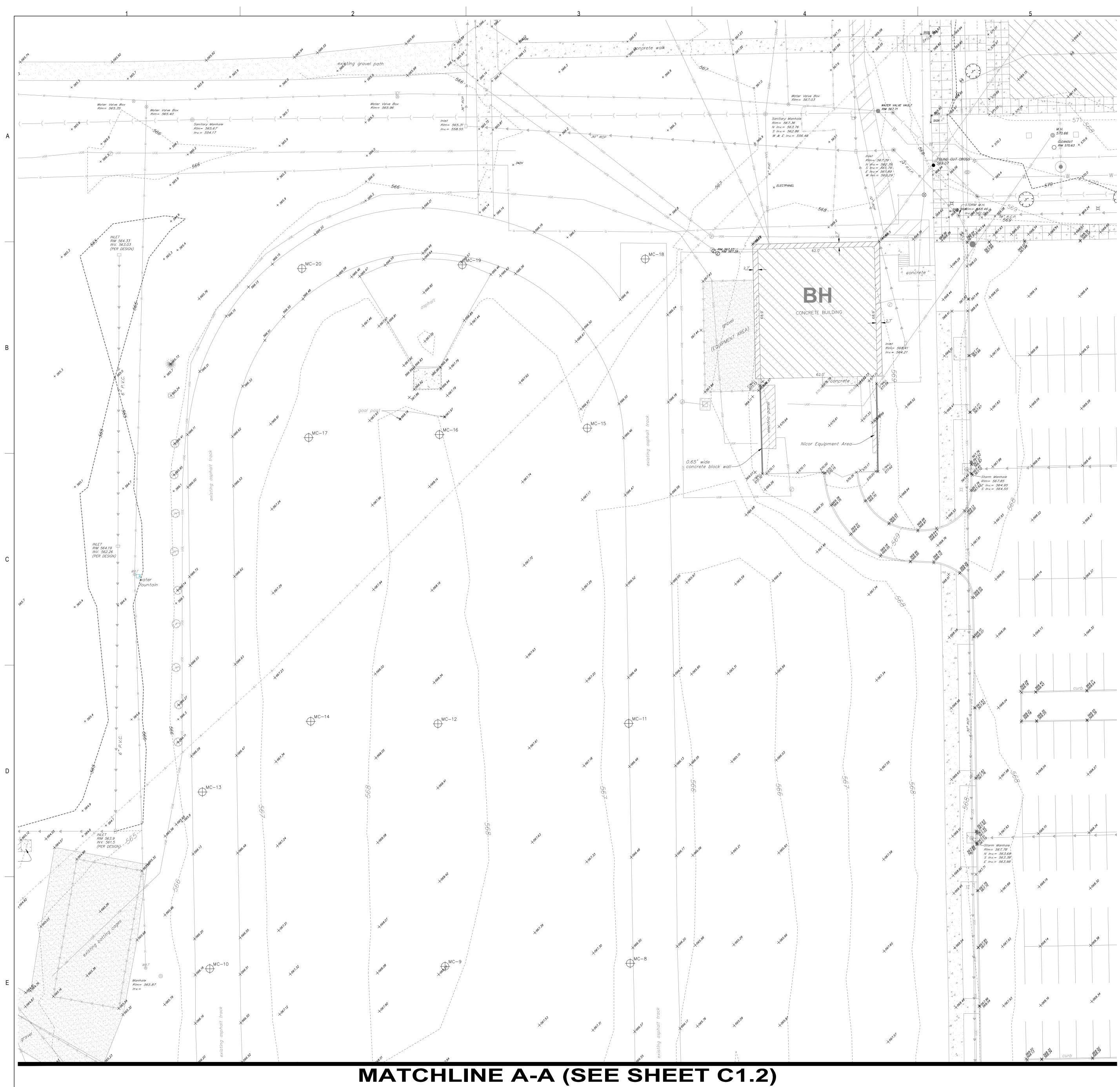


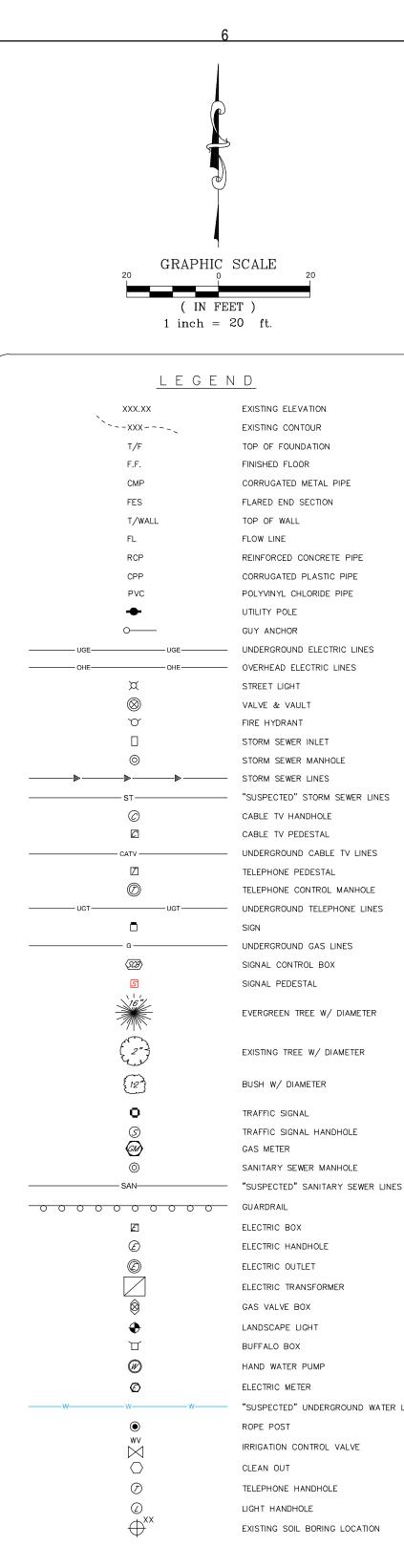


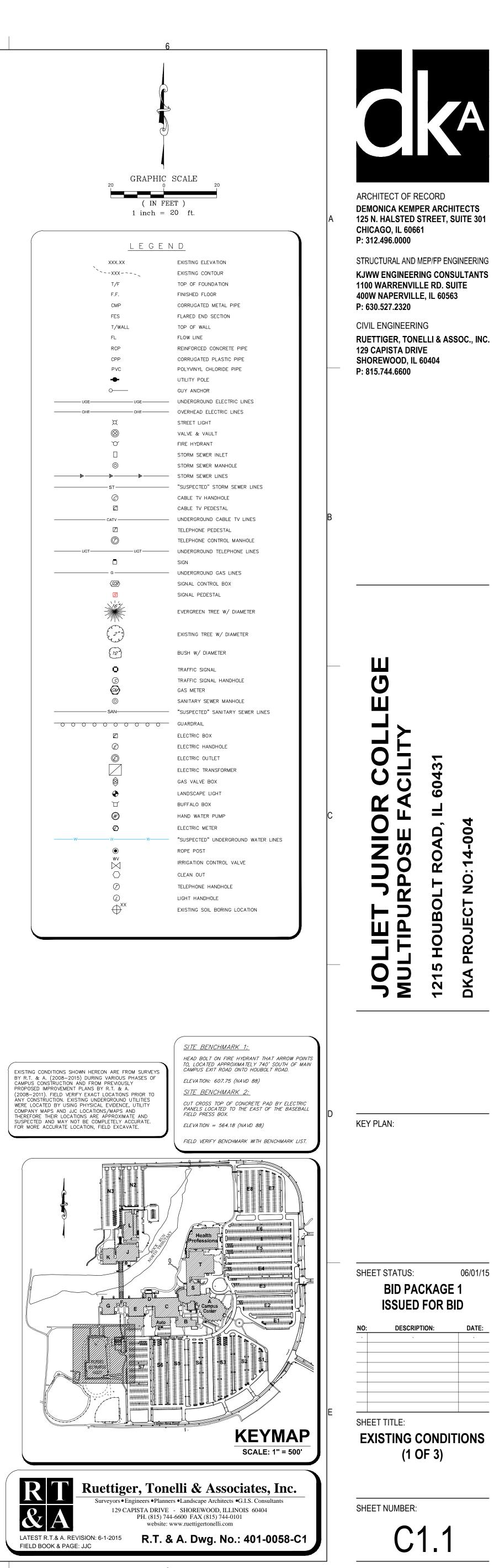
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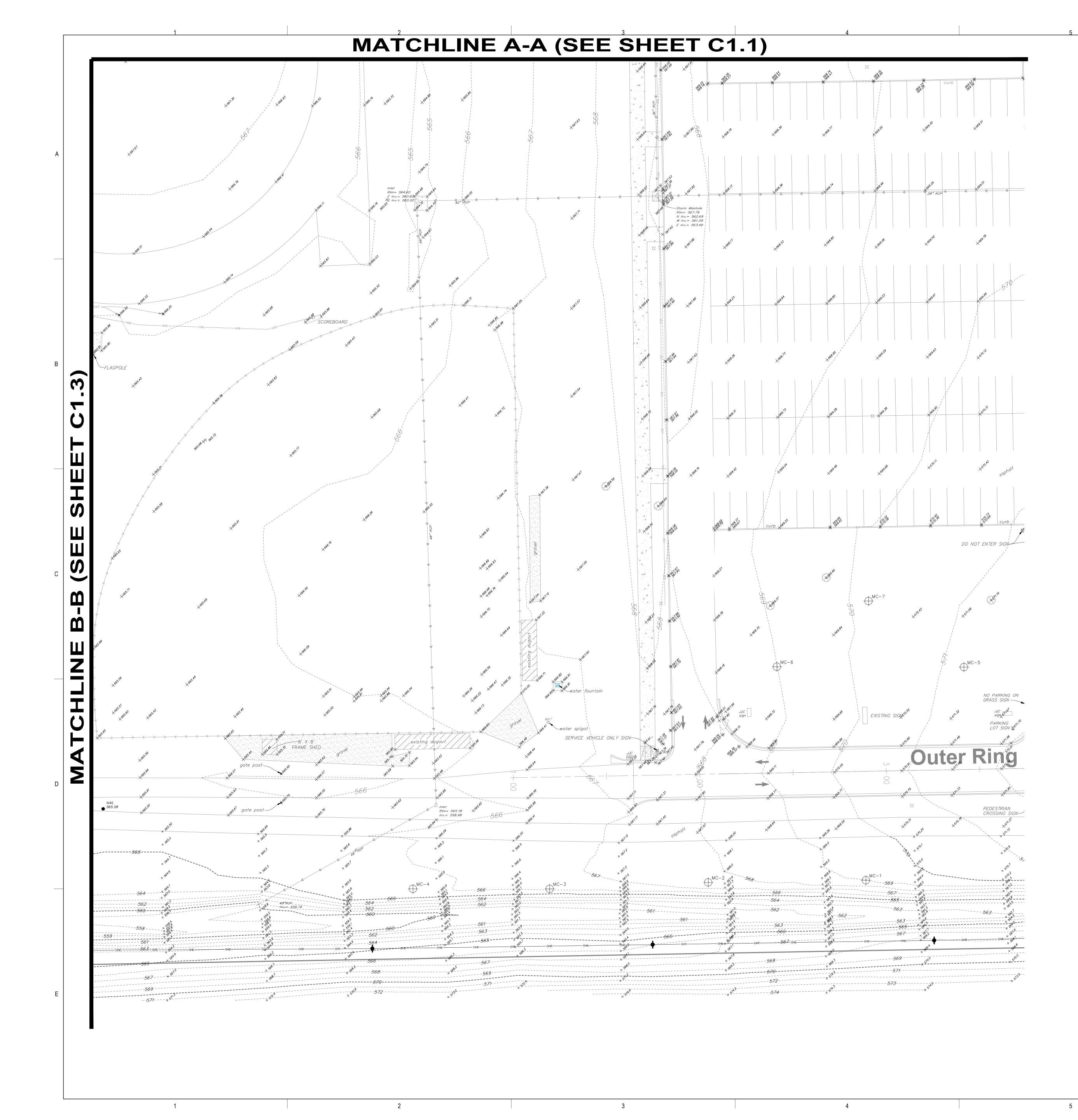
NOTE: IN THE EVENT OF A CONFLICT BETWEEN DIMENSIONS SHOWN ON THIS DRAWING AND ANY OTHER ARCHITECTURAL, ELECTRICAL, OR MECHANICAL SHEETS OR SPECIFICATIONS, NOTIFY ARCHITECT OF DISCREPANCY.

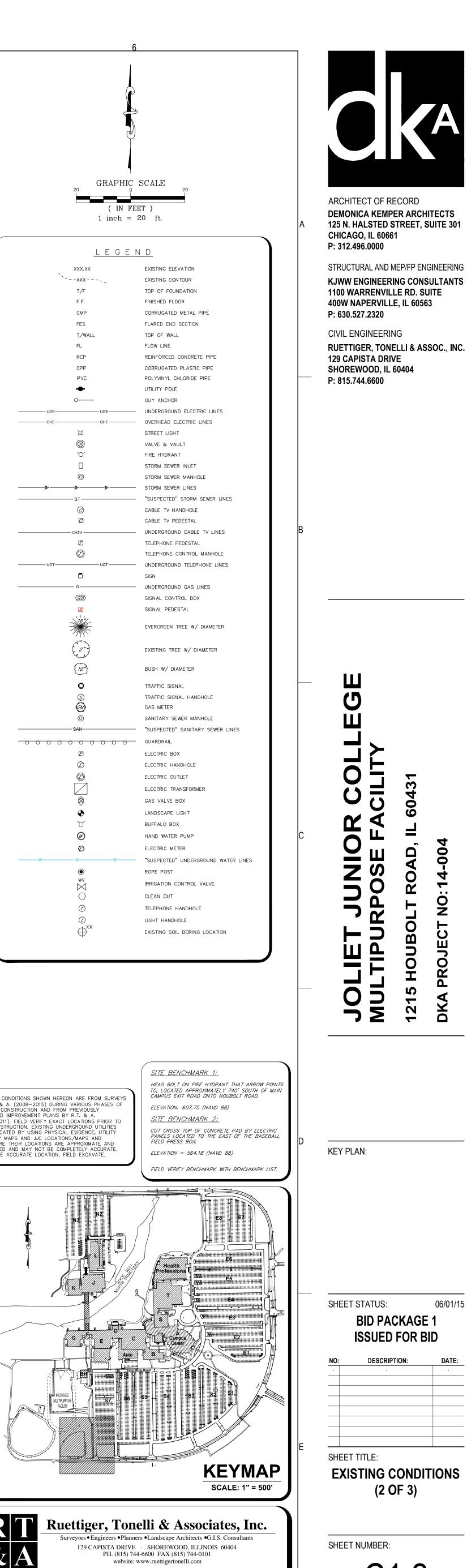


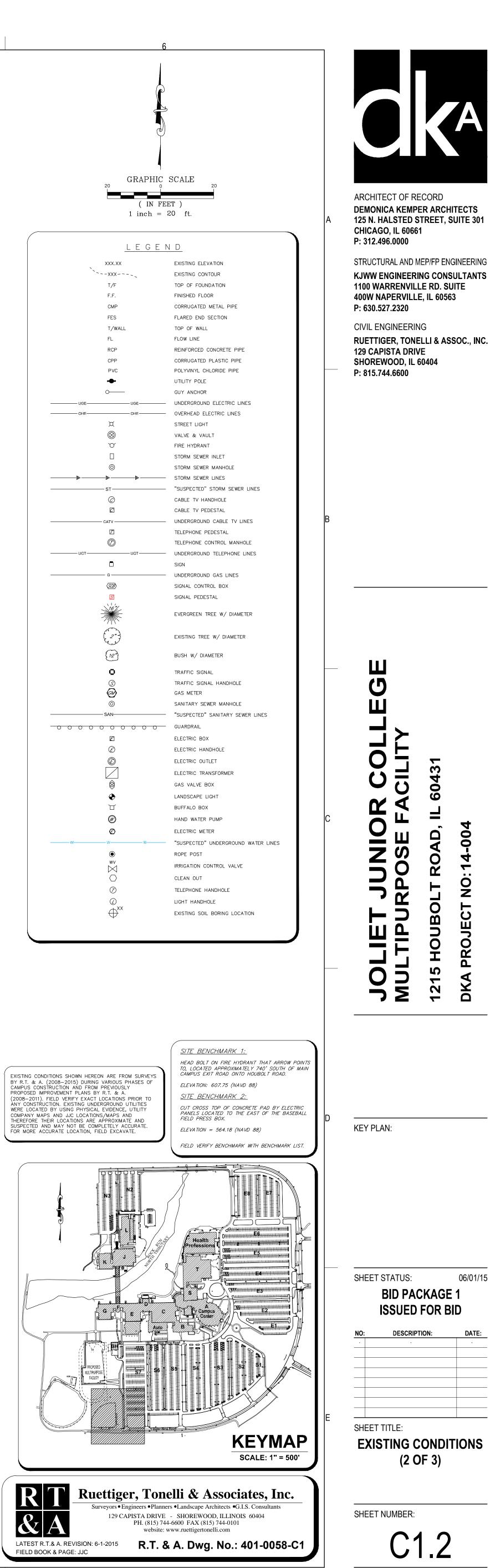


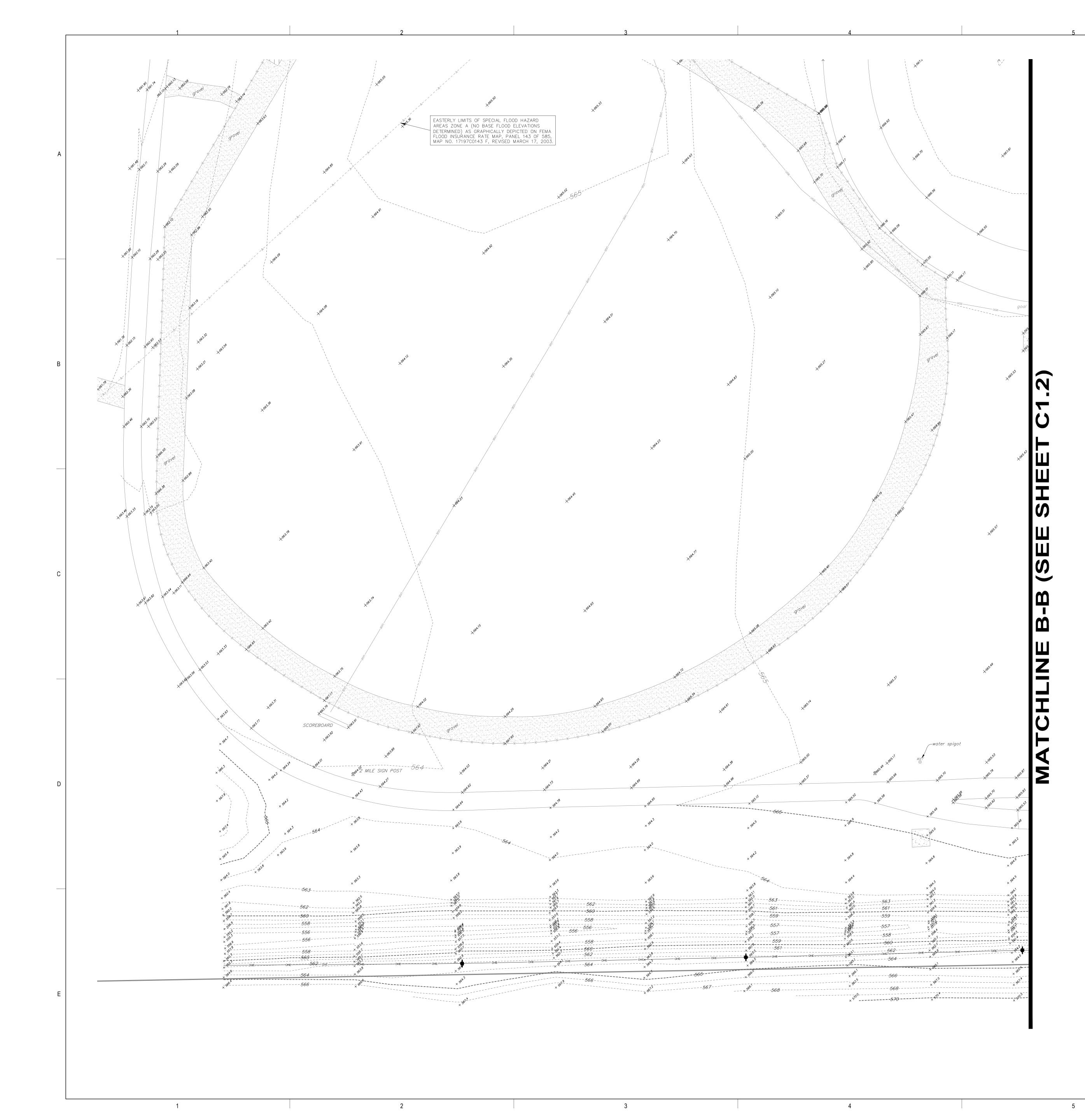


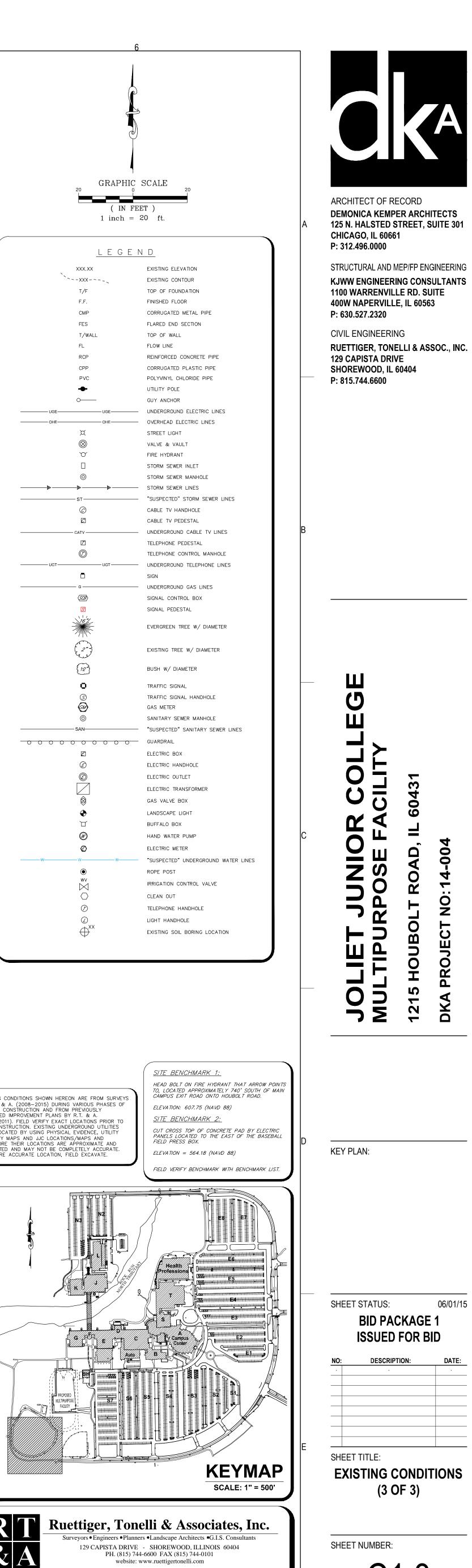


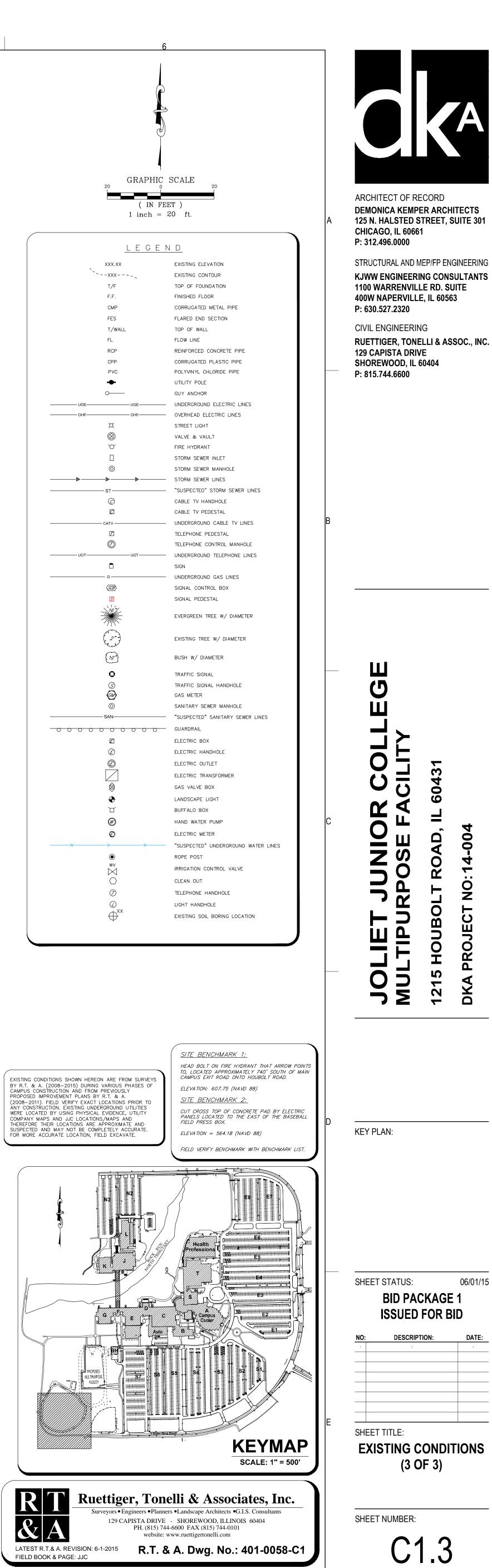


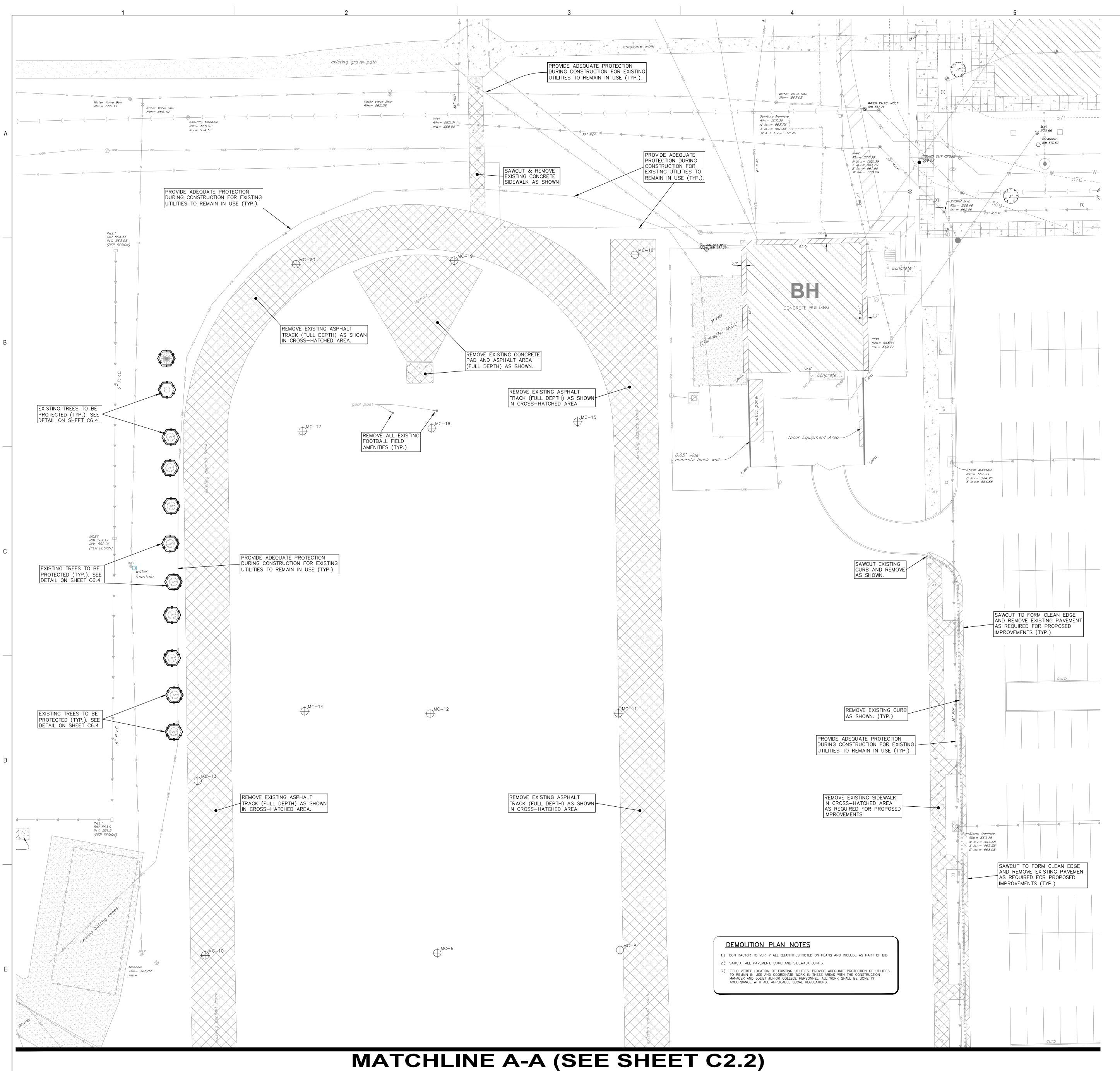


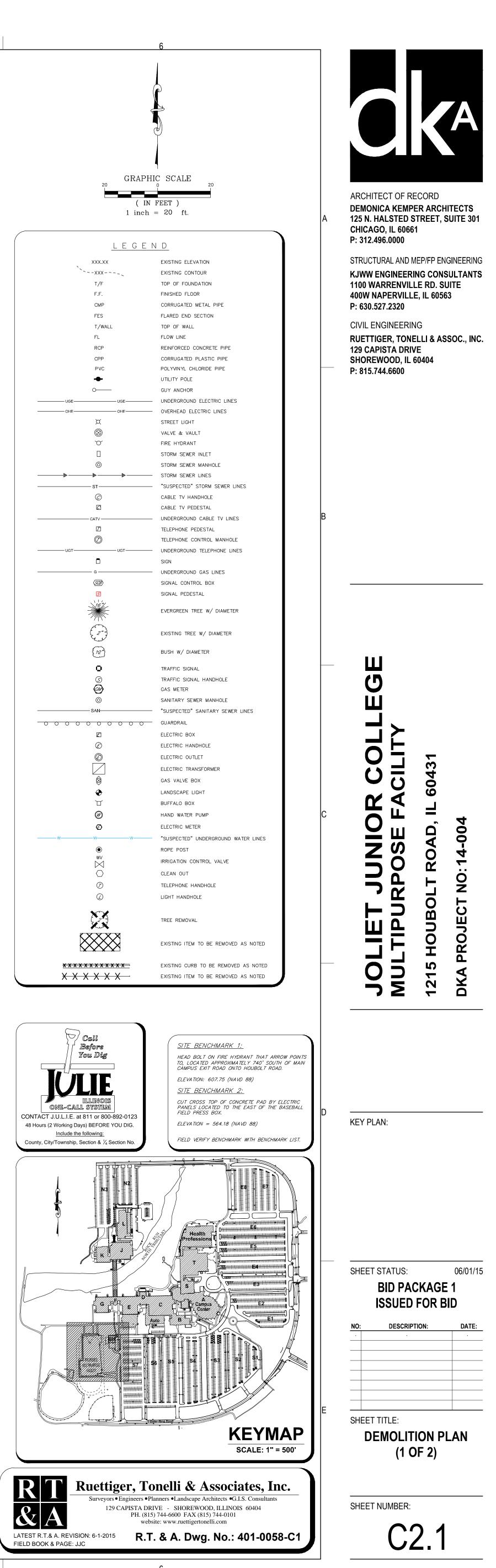


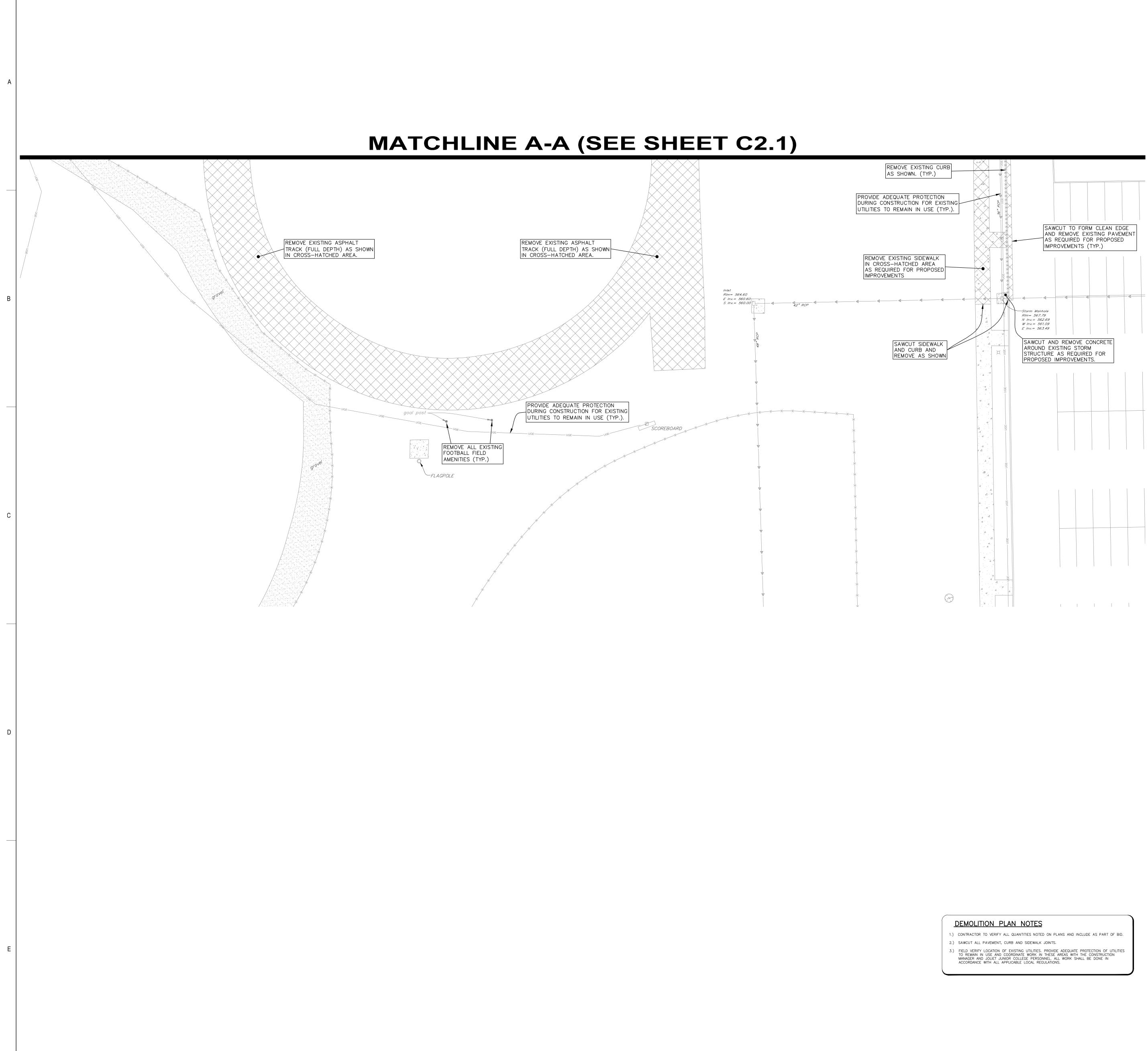


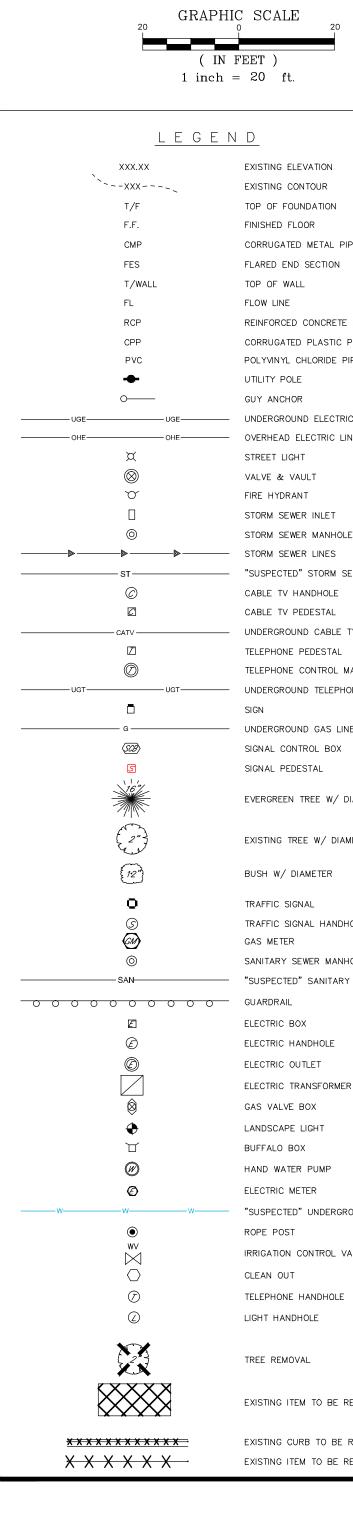


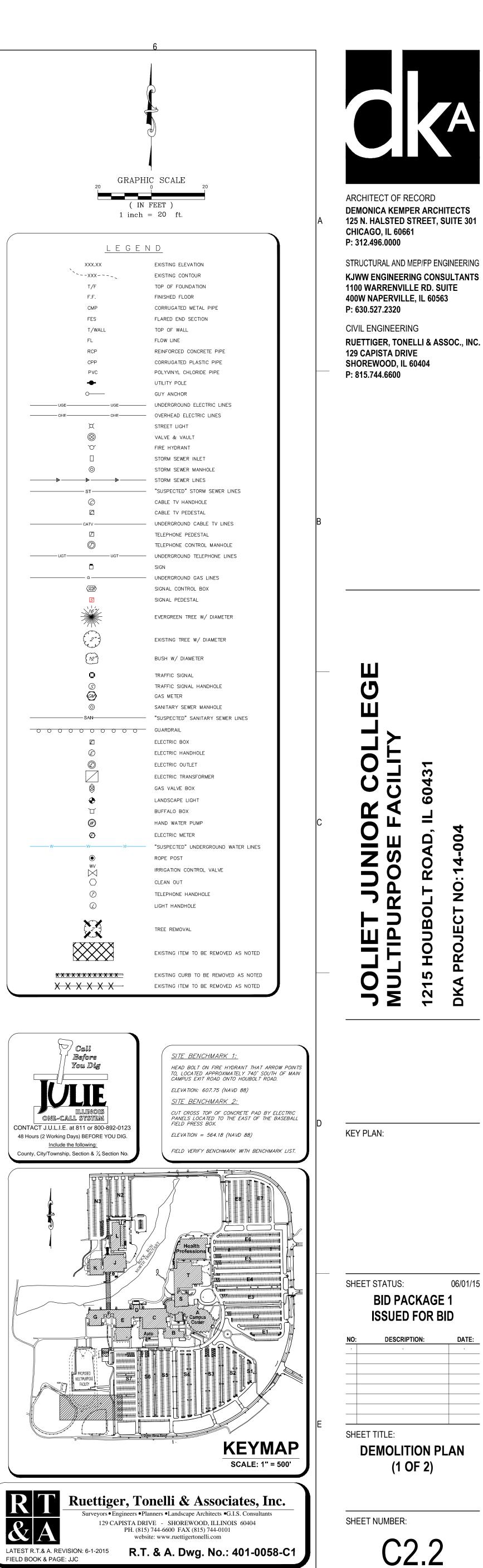






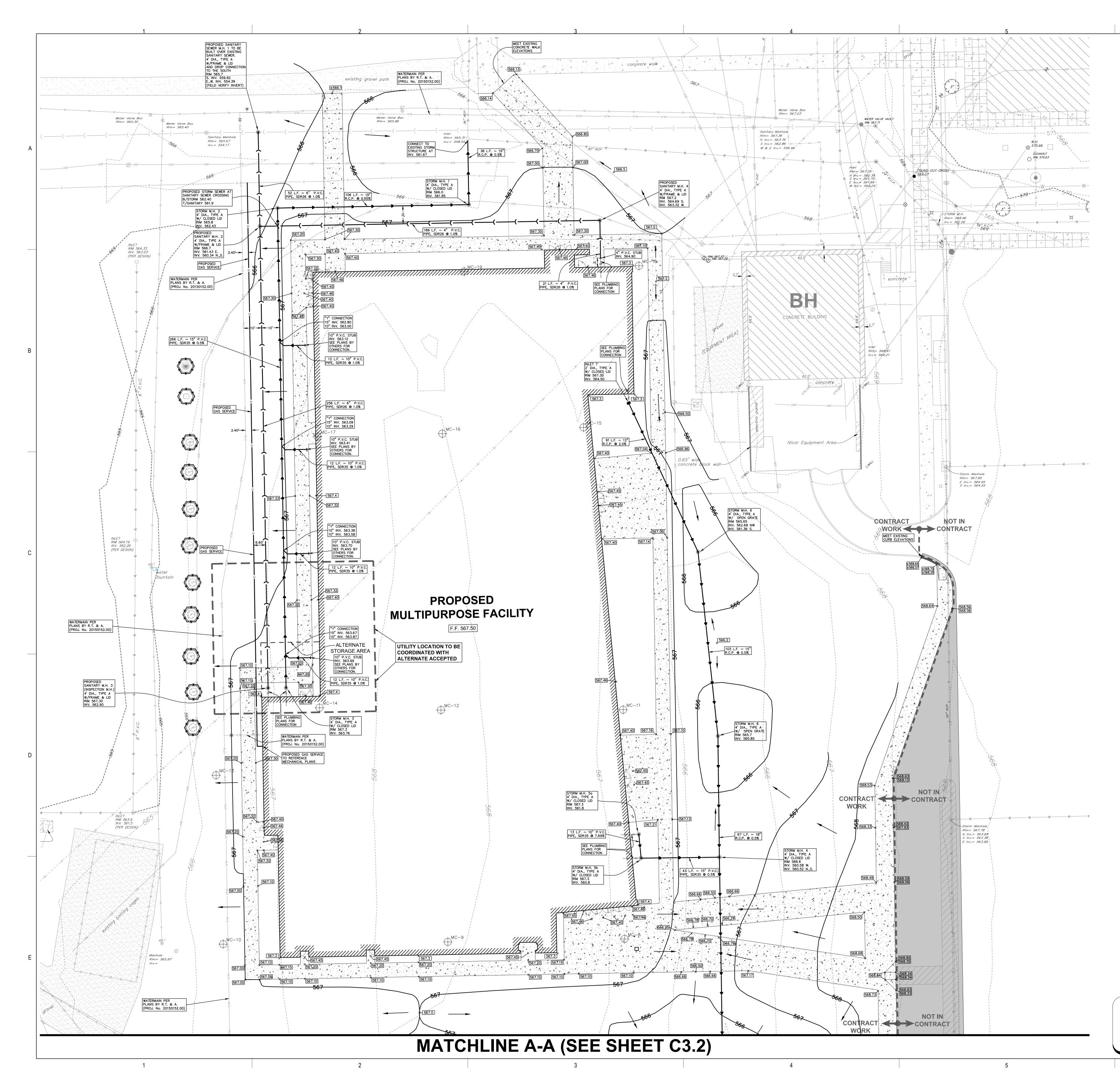


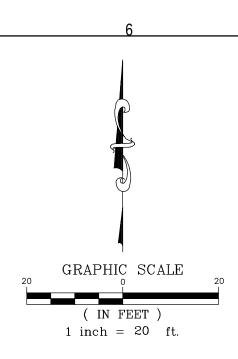


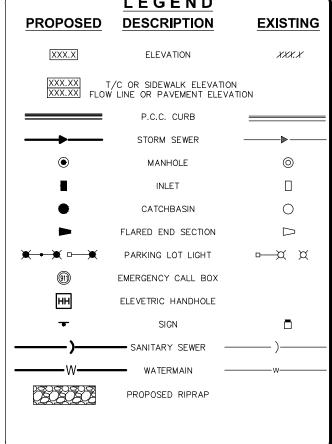


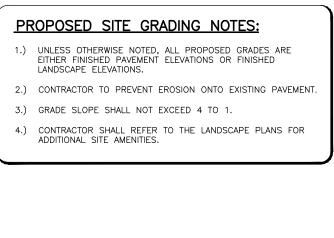
FIELD BOOK & PAGE: JJC

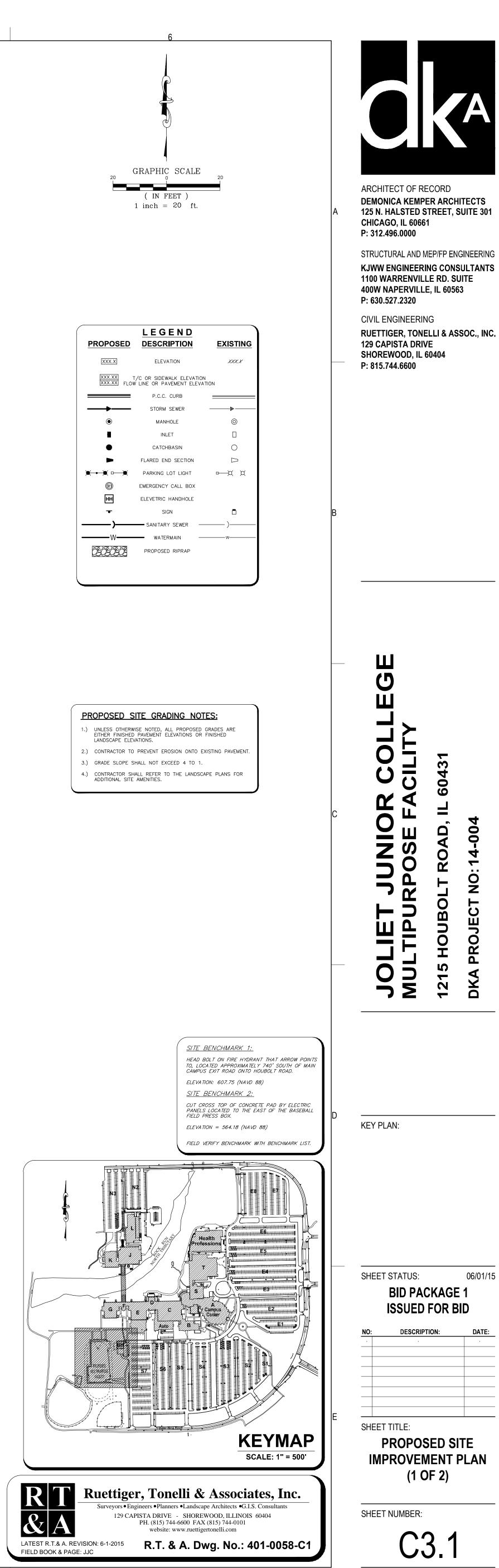
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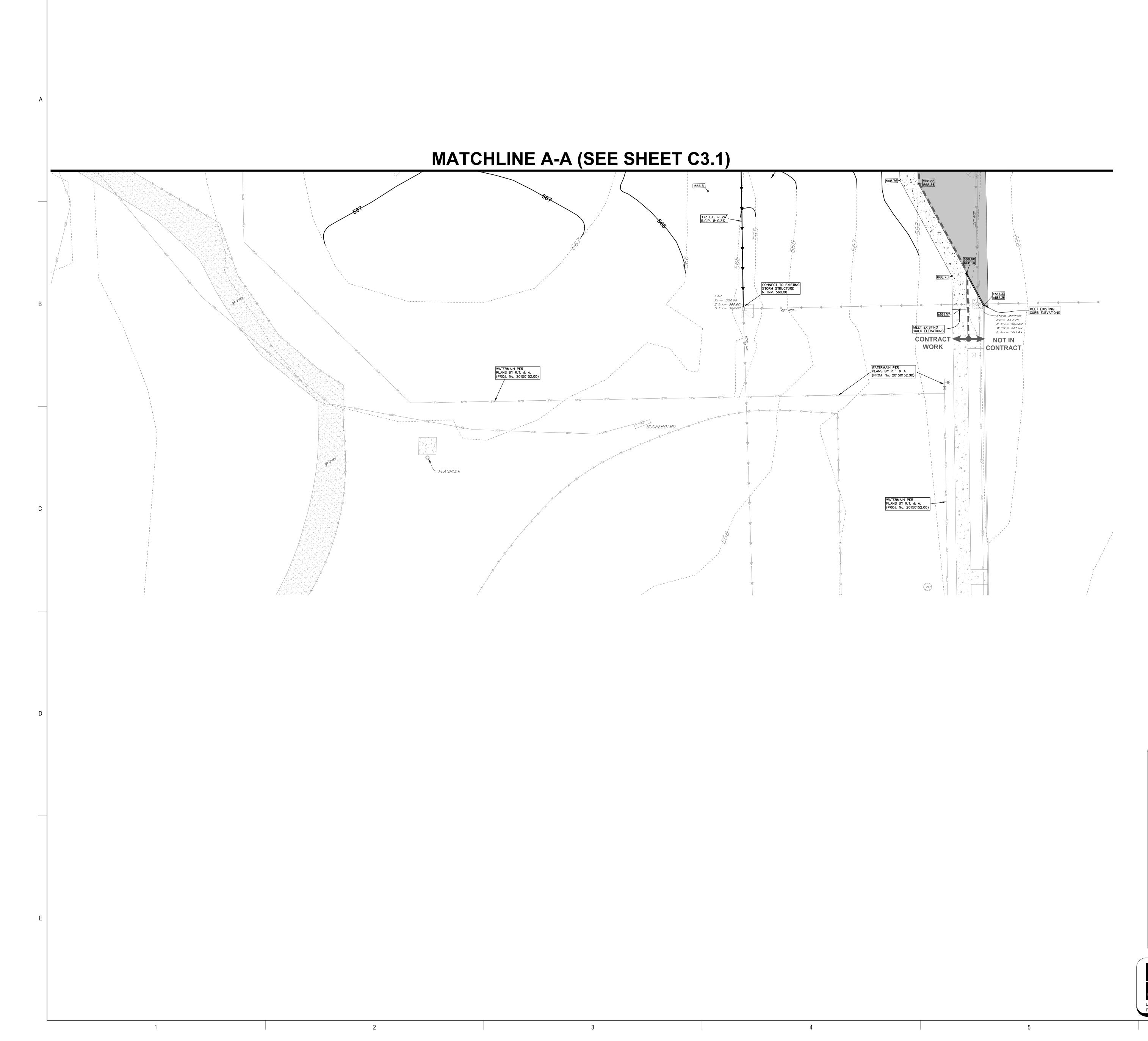


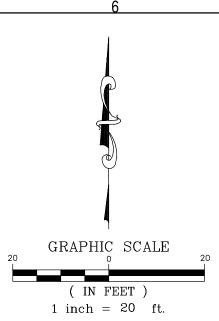


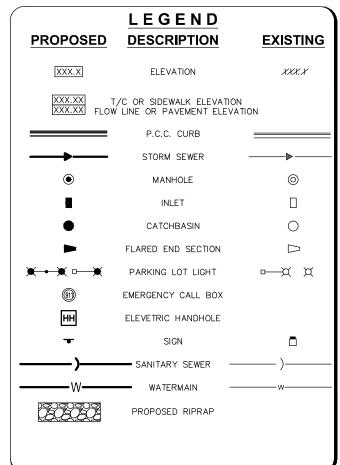


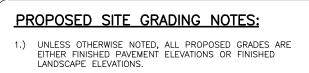


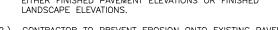


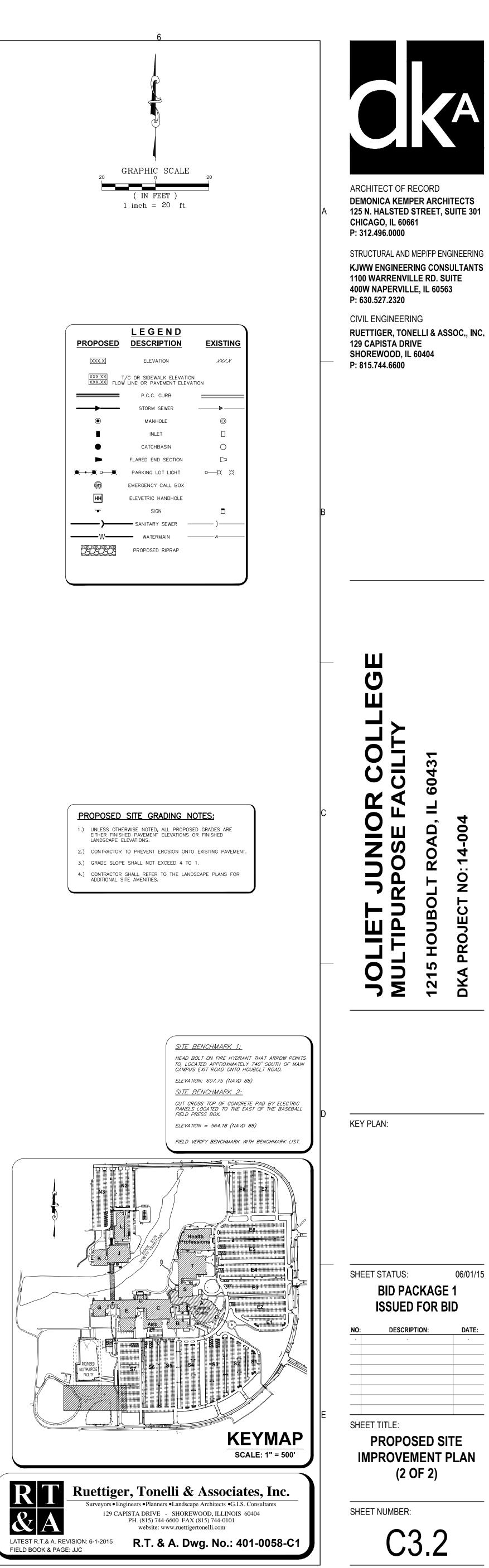


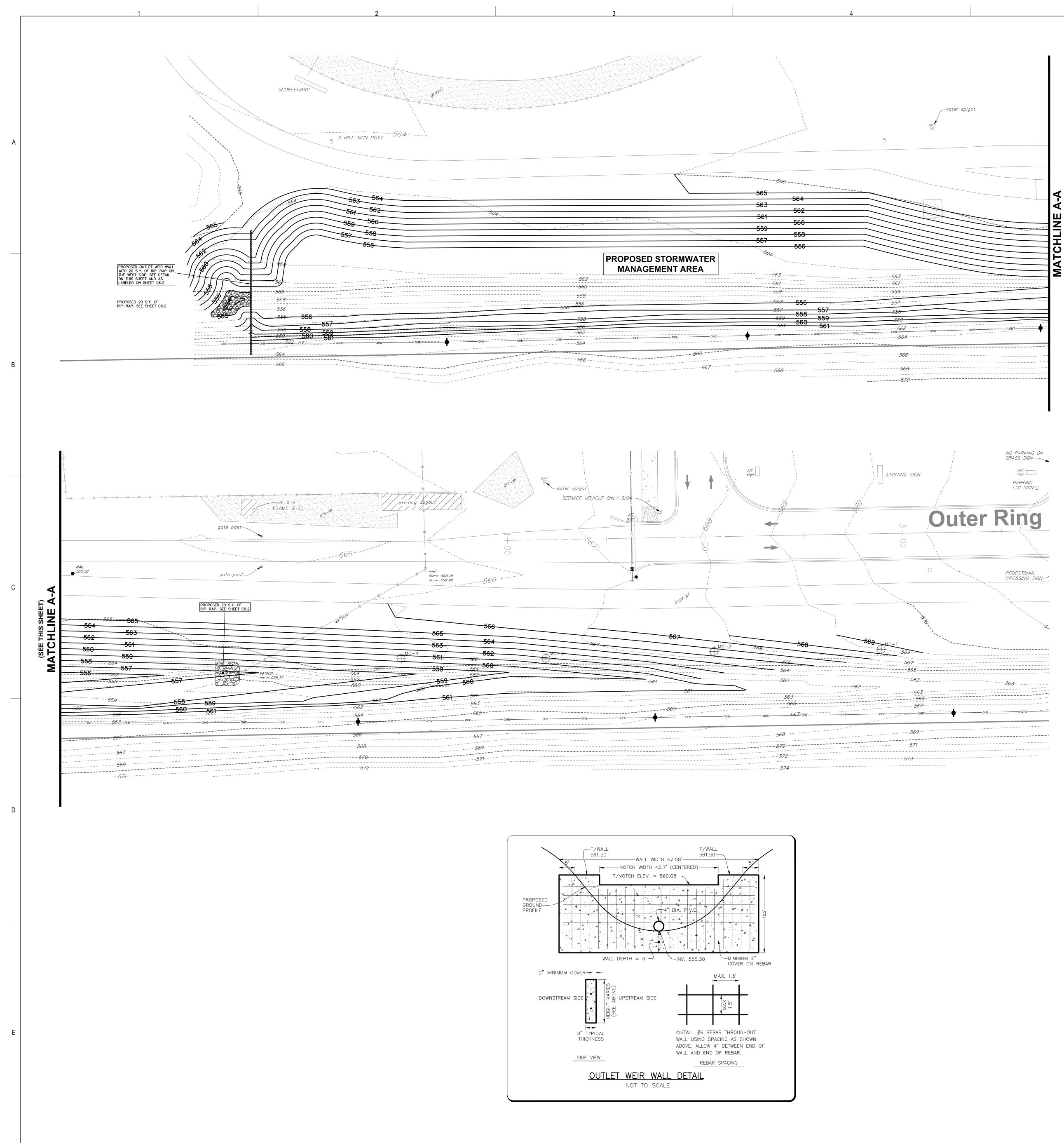


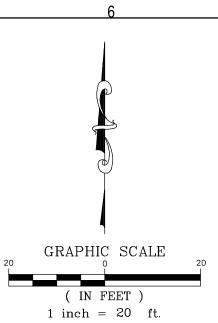




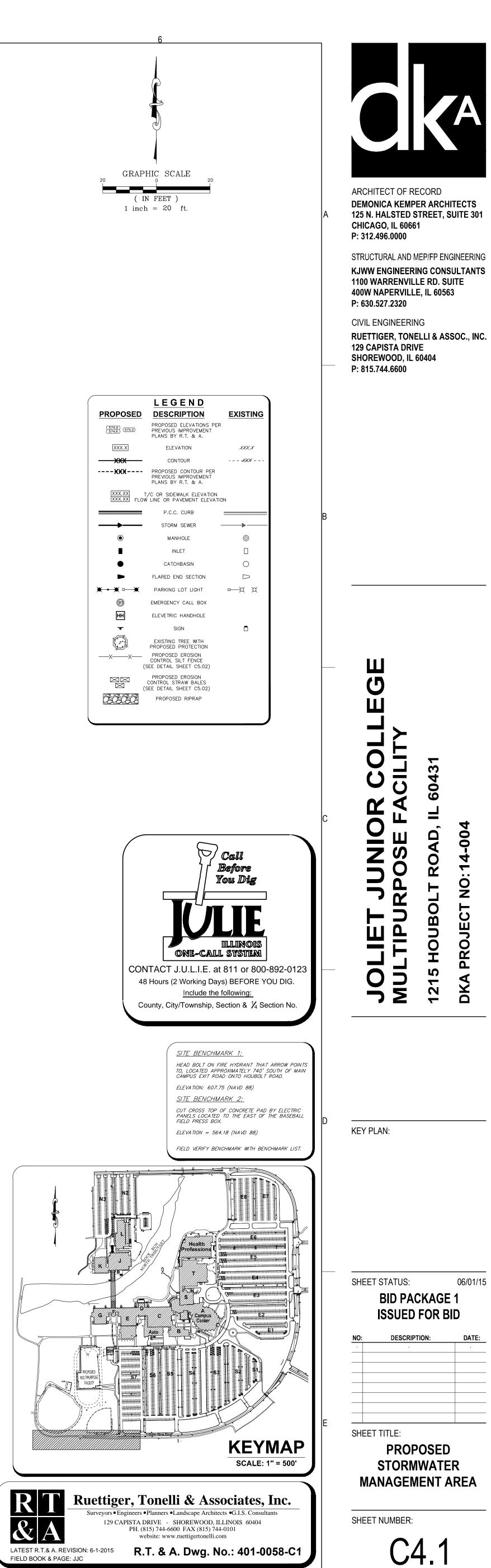


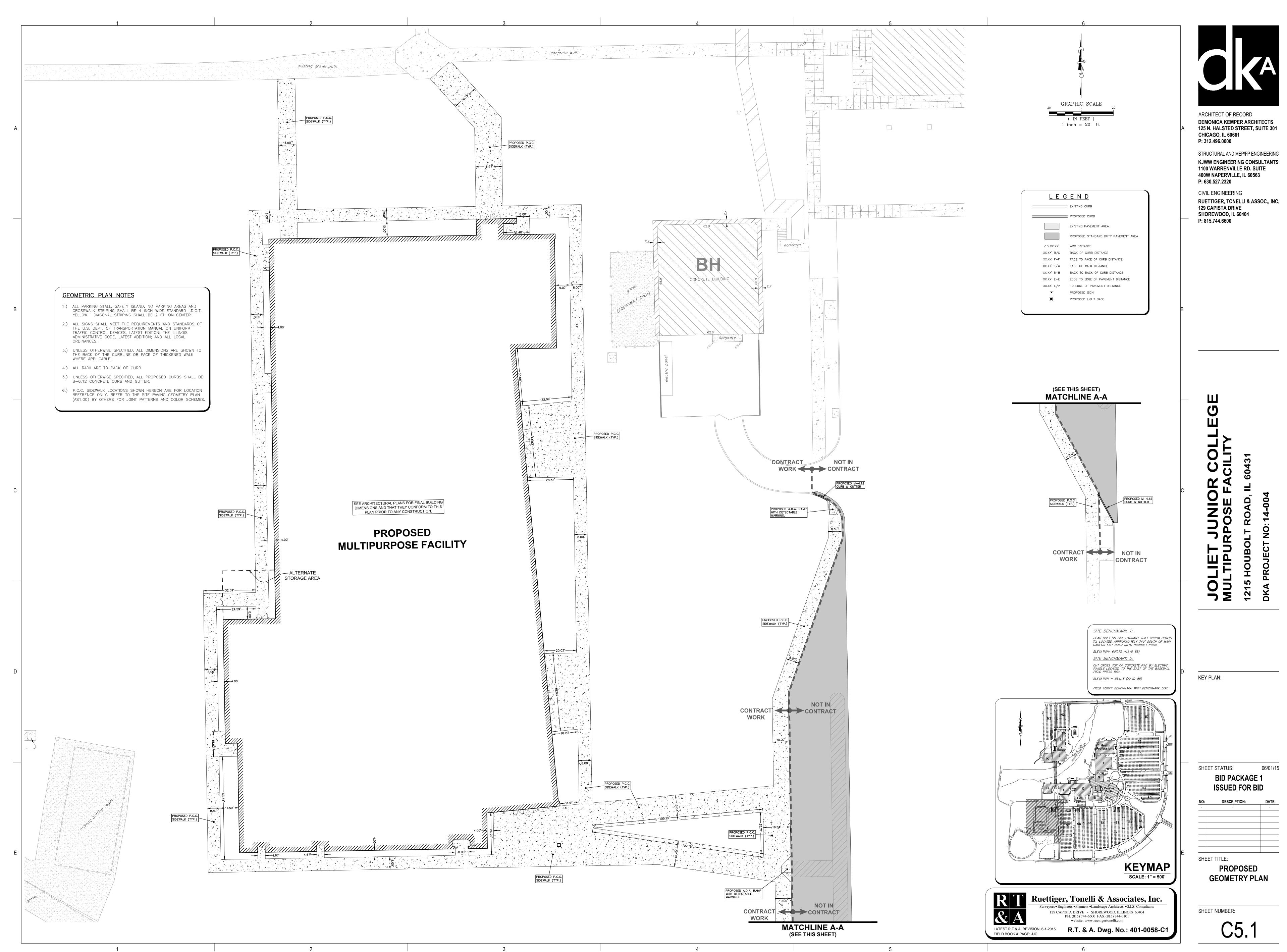




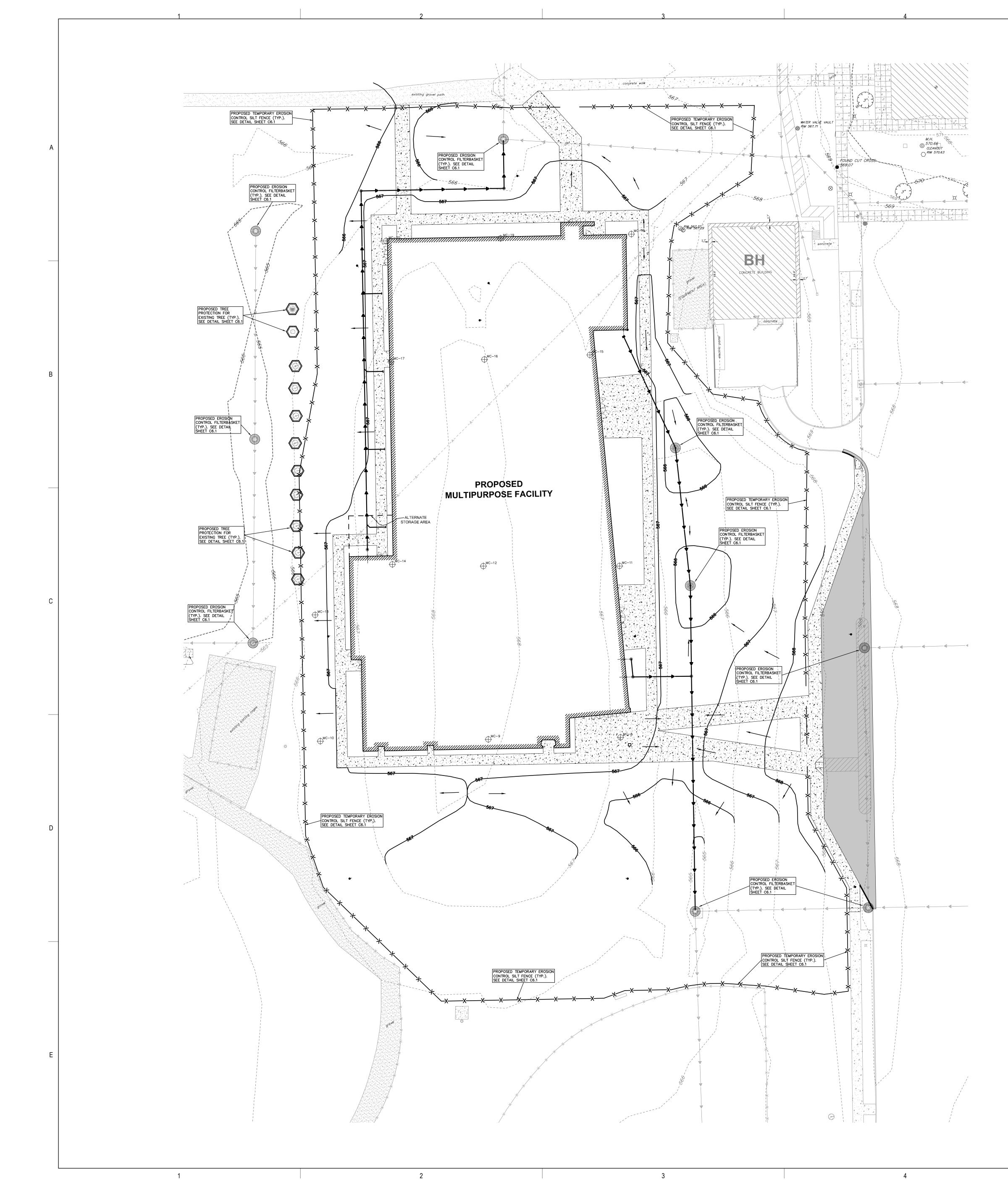


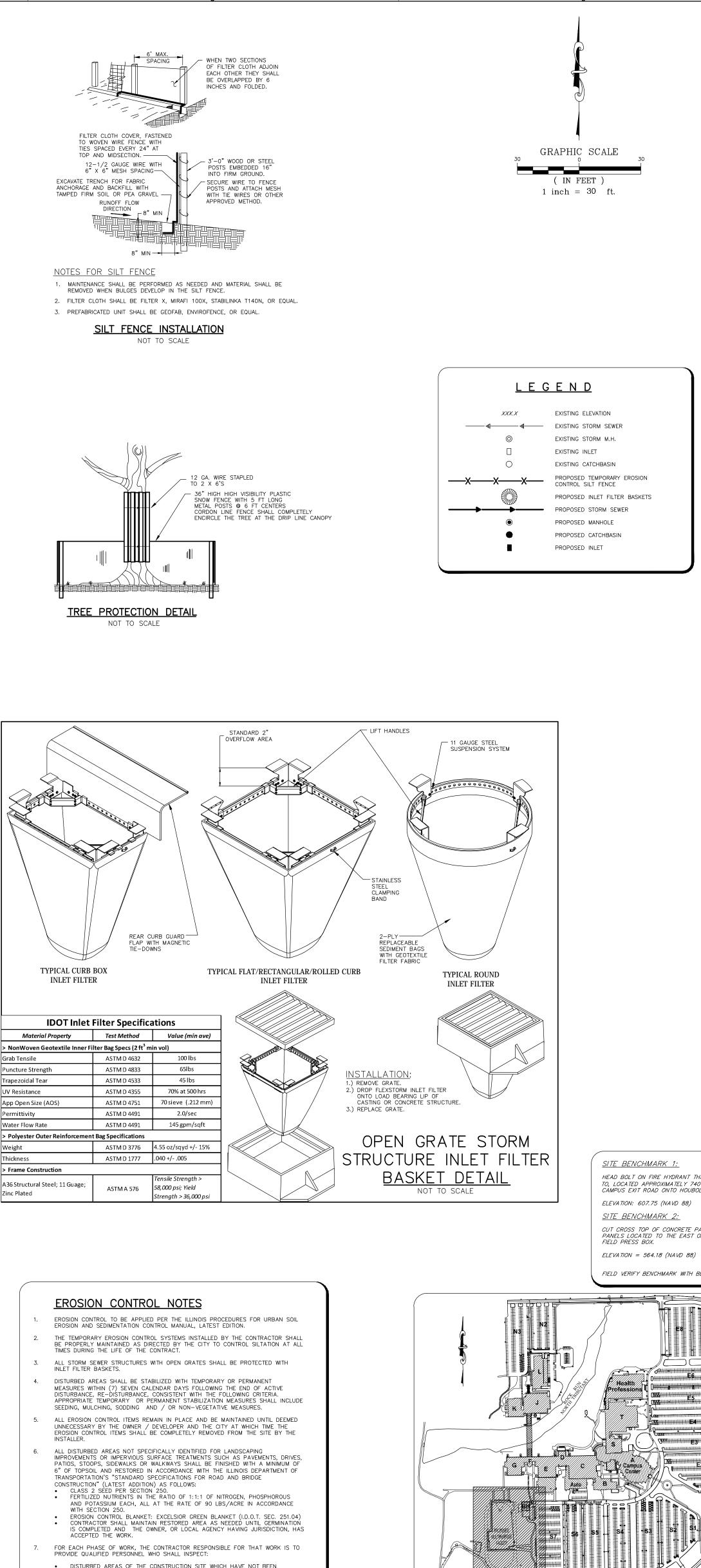
PROPOSED	LEGEND DESCRIPTION	EXISTING
(574.9) (574.6) (575.0)	PROPOSED ELEVATIONS PER PREVIOUS IMPROVEMENT PLANS BY R.T. & A.	
XXX.X	ELEVATION	XXX.X
<u> </u>	CONTOUR	- X XX
XXX	PROPOSED CONTOUR PER PREVIOUS IMPROVEMENT PLANS BY R.T. & A.	
	/C OR SIDEWALK ELEVATION ' LINE OR PAVEMENT ELEVATIO	N
	P.C.C. CURB	
	STORM SEWER -	>
۲	MANHOLE	\odot
•	INLET	
٠	CATCHBASIN	0
	FLARED END SECTION	\square
X • X • X	PARKING LOT LIGHT	⊶¤ ¤
(91)	EMERGENCY CALL BOX	
НН	ELEVETRIC HANDHOLE	
Ŧ	SIGN	ō
—x—x—	EXISTING TREE WITH PROPOSED PROTECTION PROPOSED EROSION CONTROL SILT FENCE SEE DETAIL SHEET C5.02)	
	PROPOSED EROSION CONTROL STRAW BALES SEE DETAIL SHEET C5.02)	
	PROPOSED RIPRAP	



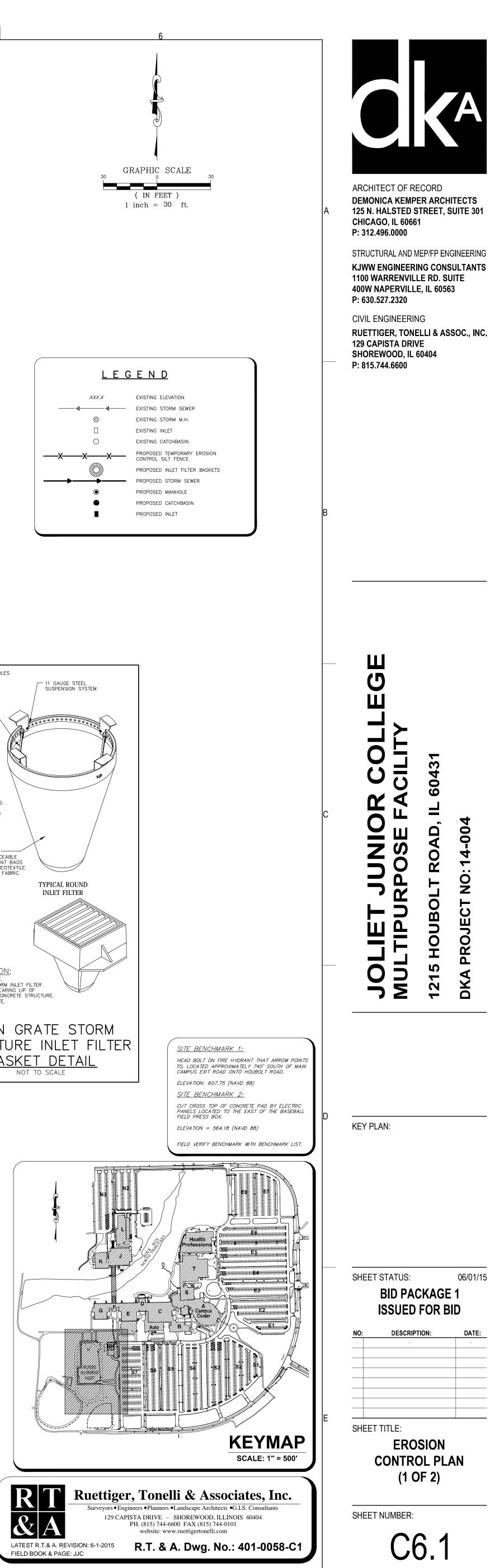


h/2015/0058/Engineering/Plan Sets/C1 - JJC Multipurpose Center/Sht C5.1 - Proposed Site Geometry Plan 01.dwg, Layout1, 6/1/2015 10:17:19 AM, Rpeeples

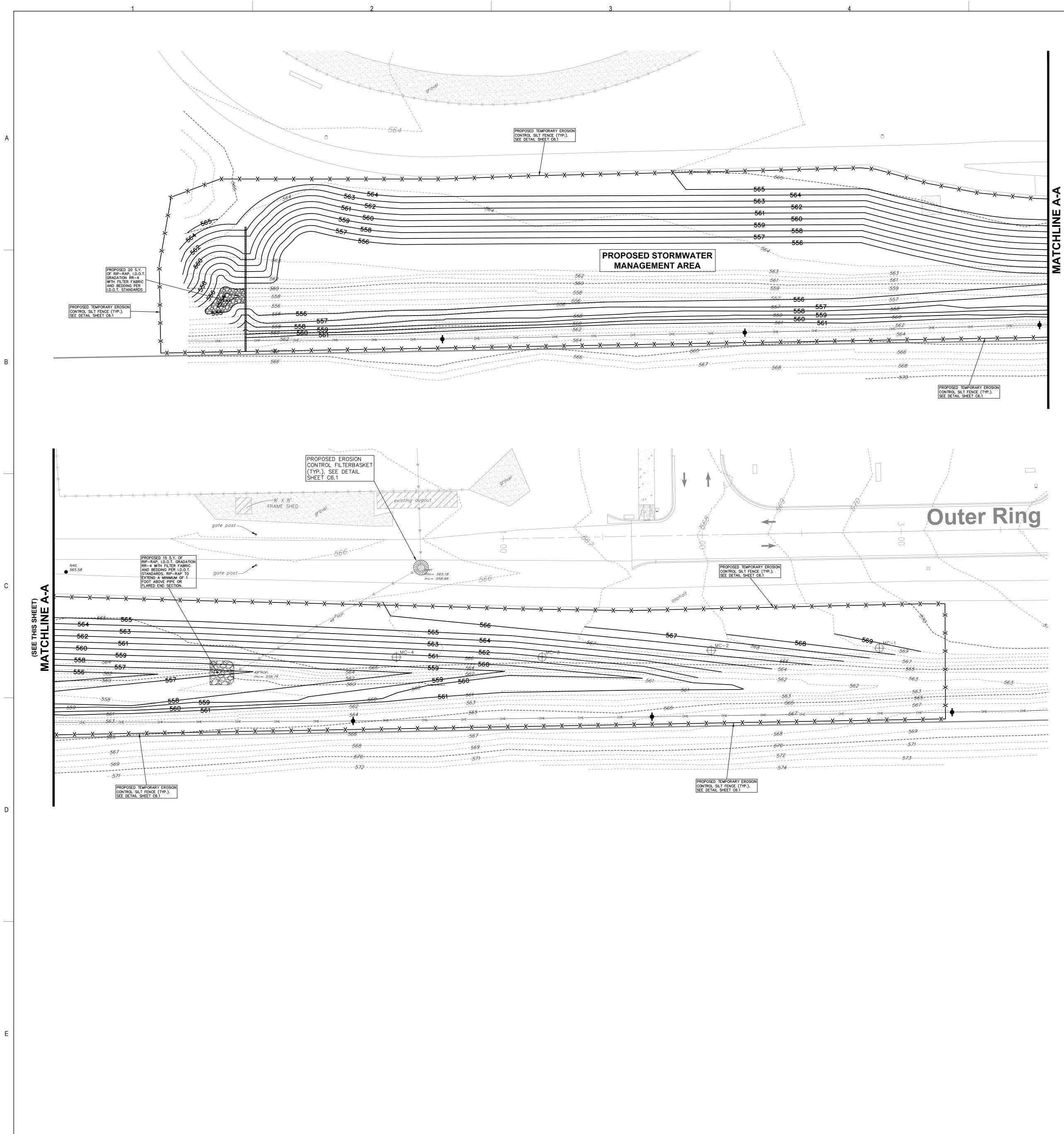


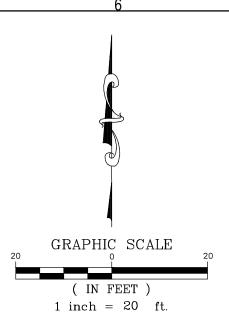


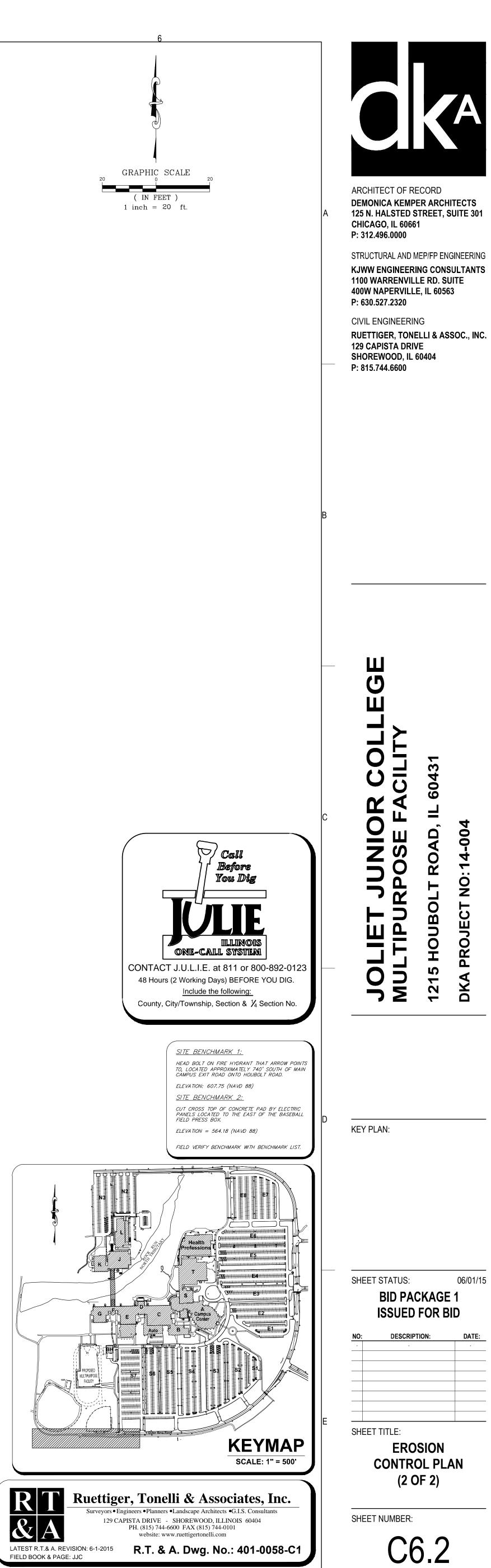
- DISTURBED AREAS OF THE CONSTRUCTION SITE WHICH HAVE NOT BEEN STABILIZED WITH IMPERVIOUS MATERIALS OR VEGETATIVE GROUND COVER.
- STRUCTURAL CONTROL MEASURES (I.E. SILT FENCE, FILTER BASKETS, GRATE FABRIC, ETC.).
- OFF SITE ROADS AND ON SITE PAVEMENTS WHICH THE CONTRACTOR'S VEHICLES AND OR EQUIPMENT OPERATE.
 SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT THAT HAS 0.5 INCHES OR MORE OF PRECIPITATION.
 ALL INSPECTIONS SHALL BE IN CONFORMANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN INSPECTION REQUIREMENTS.

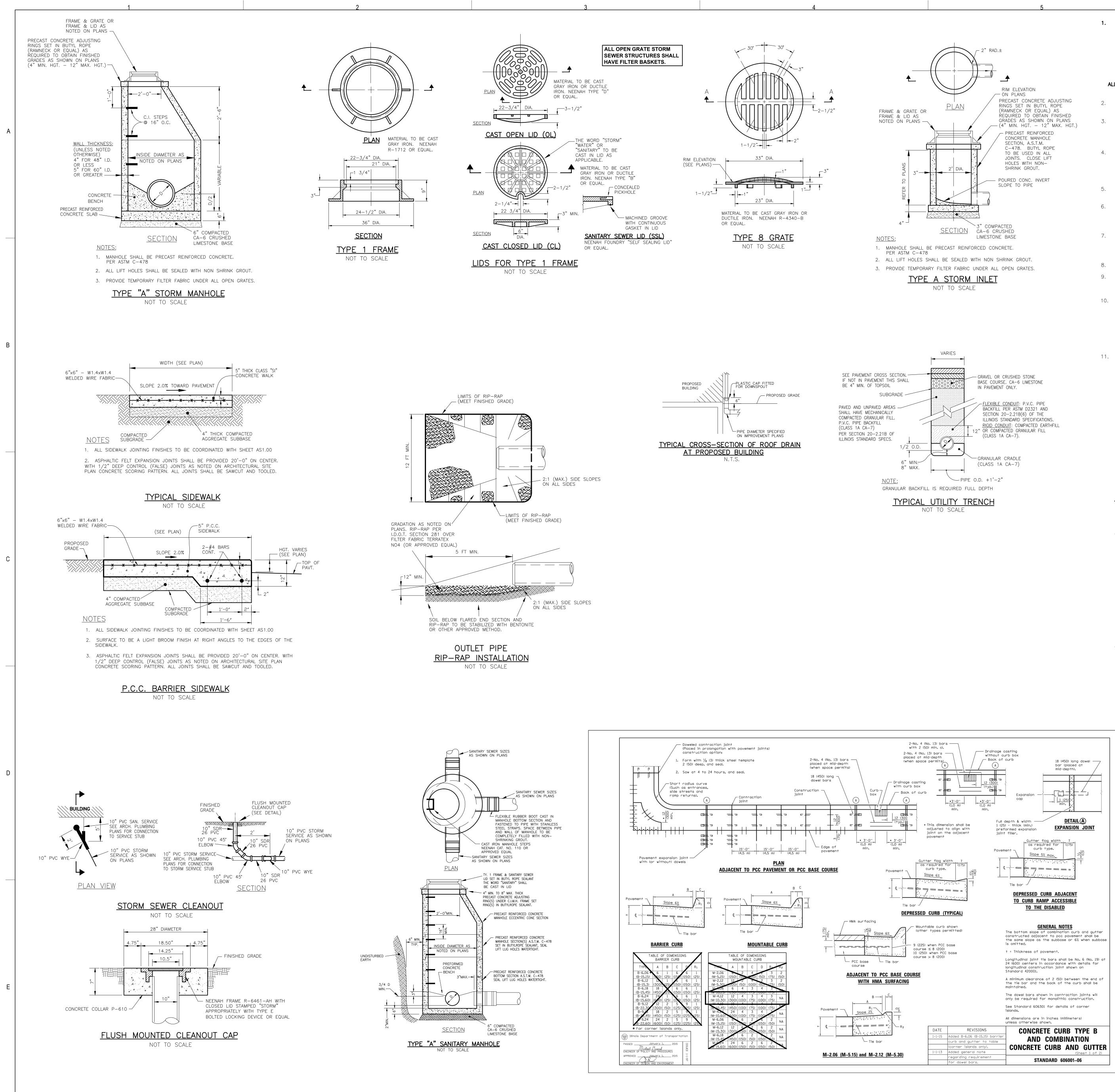


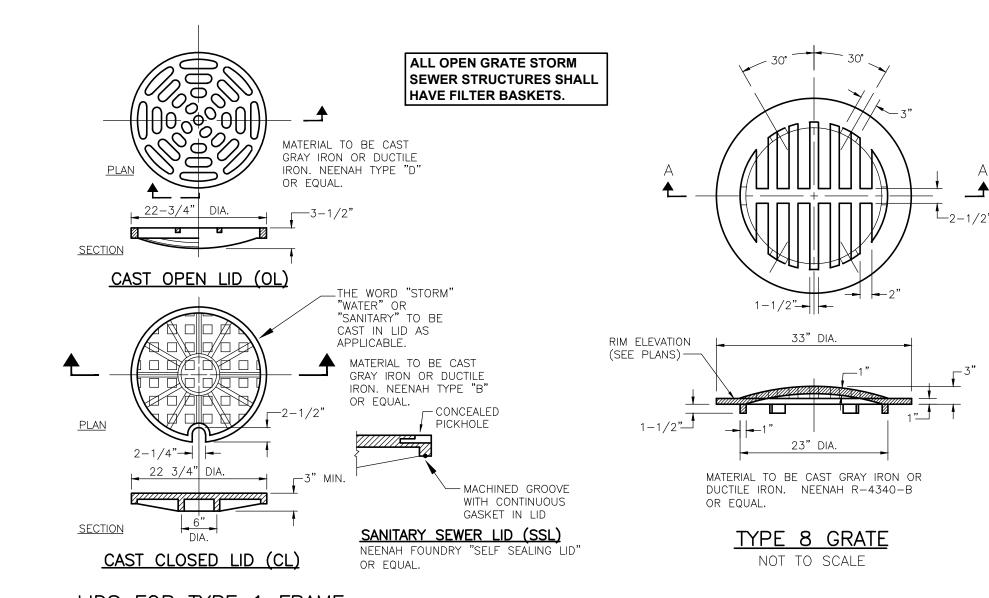
h/2015/0058/Engineering/Plan Sets/C1 - JJC Multipurpose Center/Sht C6.1 - Erosion Control Plan 01.dwg, Layour1, 6/1/2015 10:17:43 AM, Rţ

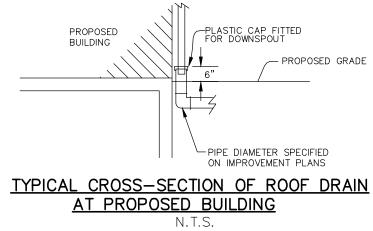


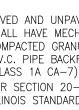














- 1. FOR THE FOLLOWING ITEMS, REFER TO THE ARCHITECTURAL PLANS:
- BUILDING DIMENSIONS STRUCTURAL DESIGN AND DETAILS CONCRETE SURFACE JOINTING DESIGN AND DETAILS BUILDING SERVICE LOCATIONS ROOF DRAINAGE CONNECTIONS SITE LIGHTING DESIGN AND DETAILS SITE SIGNAGE DESIGN AND DETAILS
- LANDSCAPE DESIGN AND DETAILS CONSTRUCTION MANAGEMENT, SCHEDULING AND / OR PHASING
- ALL ITEMS ON THESE PLANS NOTED "SEE ARCHITECTURAL PLANS"
- 2. UNLESS OTHERWISE NOTED; ALL DIMENSIONS, STATIONING, AND GRADES SHOWN ARE REFERENCED TO THE BACK OF, AND THEREFORE THE TOP OF THE CURBLINE.
- 3. ALL NEW CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" LATEST EDITION; AND "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" - ILLINOIS DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
- 4. THE OWNER AND/OR CONTRACTOR ARE REQUIRED TO FILE A NOTICE OF INTENT (NOI) WITH THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA) RELATIVE TO STORM WATER DISCHARGE QUALITY, AND OBTAIN A GENERAL PERMIT ILR-10 OR OTHER NATIONAL POLLUTANT ELIMINATION SYSTEM (NPDES) PERMIT AS MAY BE REQUIRED PRIOR TO ANY SITE CONSTRUCTION.
- 5. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE CONSTRUCTION MANAGER.
- 6. UNLESS NOTED OTHERWISE, ANY UNDERGROUND SEWER OR DRAIN TILE SHALL REMAIN IN OPERATION, AND IF DAMAGED SHALL BE REPAIRED TO EXISTING OR BETTER CONDITION. THE OWNER OF THE TILE AND THE CONSTRUCTION MANAGER SHALL BE NOTIFIED BEFORE TRENCH IS BACKFILLED.
- 7. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THE OWNER, CONSTRUCTION MANAGER AND ENGINEER IF THERE IS ANY DISCREPANCY BETWEEN THE PLANS AND EXISTING CONDITIONS PRIOR TO PROCEEDING WITH ANY STAGE OF CONSTRUCTION OF PROPOSED IMPROVEMENTS.
- 8. GRANULAR BACKFILL TO BE CRUSHED LIMESTONE CA-6.
- 9. ALL PROPOSED ROOF DRAINAGE SHALL BE DIRECTED TO THE PROPOSED STORM WATER MANAGEMENT SYSTEM. WHERE APPLICABLE, EXISTING ROOF DRAINS SHALL BE DIRECTED TO THE PROPOSED STORM WATER MANAGEMENT SYSTEM.
- 10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COMPLETELY REMOVE AND PROPERLY DISPOSE OF EXISTING STRUCTURES, DEBRIS, WASTES AND VEGETATION FROM THE SITE AS NOTED ON THE PLAN OR AS MAY BE REQUIRED TO PROPERLY COMPLETE HIS WORK. ALL DEBRIS AND SURPLUS MATERIALS REMOVED FROM THE SITE SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR. NO ON-SITE BURNING OR BURIAL SHALL BE ALLOWED.

THE CONTRACTOR SHALL MAINTAIN THE SITE IN A CLEAN AND ORDERLY MANNER AT ALL TIMES. DEBRIS AND SURPLUS MATERIAL CLEAN UP AND REMOVAL SHALL PROCEED AS THE WORK PROCEEDS. 11. TRAFFIC CONTROL

ALL WORK CONDUCTED WITHIN ANY PUBLIC AREAS SHALL BE GOVERNED BY THE APPLICABLE ARTICLES OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS". WORK SHALL INCLUDE FURNISHING, INSTALLING, MAINTAINING, RELOCATING AND REMOVING ALL TRAFFIC CONTROL DEVICES USED FOR THE PURPOSE OF REGULATING, WARNING OR DIRECTING TRAFFIC DURING THE CONSTRUCTION OF ANY IMPROVEMENTS, LOADING AND UNLOADING OF MATERIALS, MOBILIZATION OF EQUIPMENT, CLEANING OF PAVEMENTS, OR WHENEVER THE SAFETY OF WORKERS OR TRAFFIC MAY BE AN ISSUE.

TRAFFIC CONTROL DEVICES INCLUDE: SIGNS AND THEIR SUPPORTS, SIGNALS, PAVEMENT MARKINGS, BARRICADES WITH SAND BAGS, CHANNELING DEVICES, WARNING LIGHTS, ARROW BOARDS, FLAGGERS, OR ANY OTHER DEVICE USED FOR THE PURPOSE OF REGULATING, WARNING OR GUIDING TRAFFIC THROUGH THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER LOCATION. INSTALLATION. AND ARRANGEMENT OF ALL TRAFFIC. ANY DROP OFF GREATER THAN TWO INCHES WITHIN EIGHT FEET OF THE PAVEMENT EDGE SHALL BE PROTECTED BY TYPE I OR II BARRICADES WITH IDOT APPROVED WARNING LIGHTS. TRAFFIC CONTROL DEVICES AND MEASURES SHALL BE SUBJECT TO APPROVAL AND INSPECTION BY CONSTRUCTION MANAGER.

STORM SEWER AND SANITARY SEWER NOTES:

SANITARY SEWER & WATER MAIN SEPARATION SHALL CONFORM TO SECTION 41-2.01 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.

SANITARY SEWER:

- 1. SANITARY SEWER MAIN SHALL BE PVC SDR-26 (AS NOTED IN PLANS), SERVICES SHALL BE P.V.C. SDR-35 PER A.S.T.M. D-3034 (6"-8") AND ASTM F-679-89(18") WITH FLEXIBLE ELASTOMERIC SEALS PER A.S.T.M. D3212 OR APPROVED EQUAL. 2. GRANULAR BEDDING SHALL BE CONSTRUCTED IN CONJUNCTION WITH THE INSTALLATION OF
- ALL SANITARY SEWERS AND SERVICES, GRANULAR BEDDING SHALL BE CLASS 1 CRUSHED CA-7 AND AT LEAST 6" OVER TOP OF PIPE PER ASTM D2321. 3. SANITARY SEWER SHALL BE AIR PRESSURE TESTED PER THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION). SANITARY
- SEWER SHALL BE MANDREL TESTED AND A VIDEO INSPECTION PERFORMED WITH THE VIDEO AND A WRITTEN REPORT SENT TO THE CITY. 4. SANITARY MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH ASTM C969-94
- AND DOCUMENTED WITH RESULTS FORWARDED TO THE CONSTRUCTION MANAGER. 5. PROVIDE TRACER WIRE AND EXCAVATION WARNING TAPE FOR THE SANITARY SEWER.
- STORM SEWER
- 1. STORM SEWER SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 CLASS SHOWN ON DRAWINGS, O-RING JOINTS CONFORMING TO ASTM C443.
- 2. ALL FLARED END SECTIONS SHALL HAVE A GRATE PER I.D.O.T. STANDARD 2364-3 AND 2379-2, AND AN END BLOCK PER I.D.O.T. STANDARD 2249-1.





FIELD BOOK & PAGE: JJC

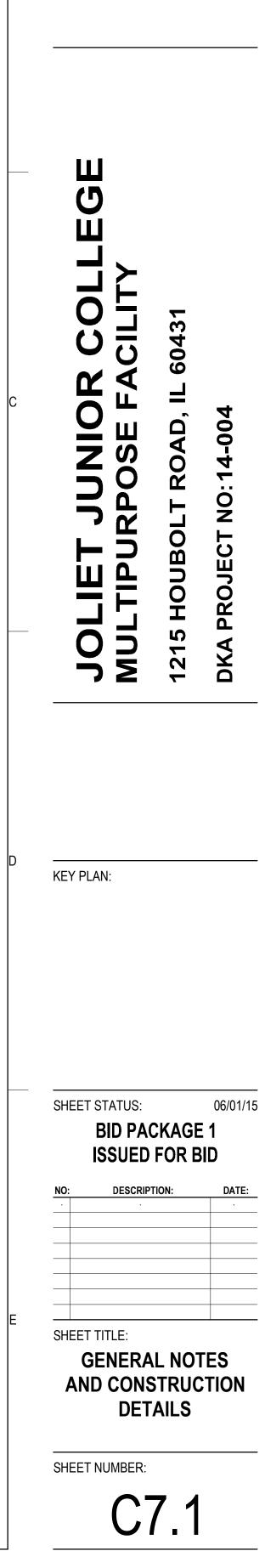
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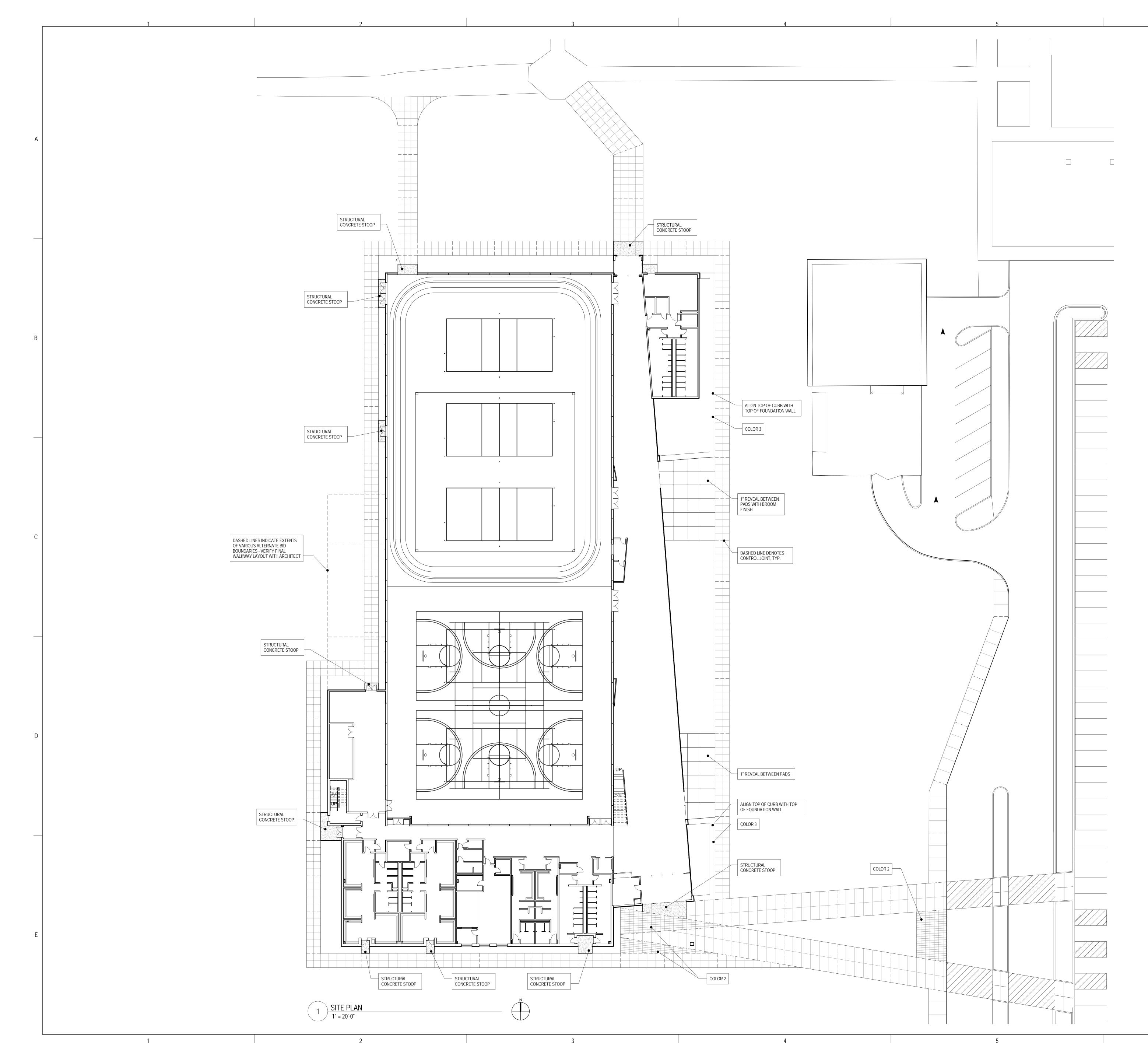


ARCHITECT OF RECORD **DEMONICA KEMPER ARCHITECTS** 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000

STRUCTURAL AND MEP/FP ENGINEERING **KJWW ENGINEERING CONSULTANTS** 1100 WARRENVILLE RD. SUITE 400W NAPERVILLE, IL 60563 P: 630.527.2320

CIVIL ENGINEERING RUETTIGER, TONELLI & ASSOC., INC. 129 CAPISTA DRIVE SHOREWOOD, IL 60404 P: 815.744.6600



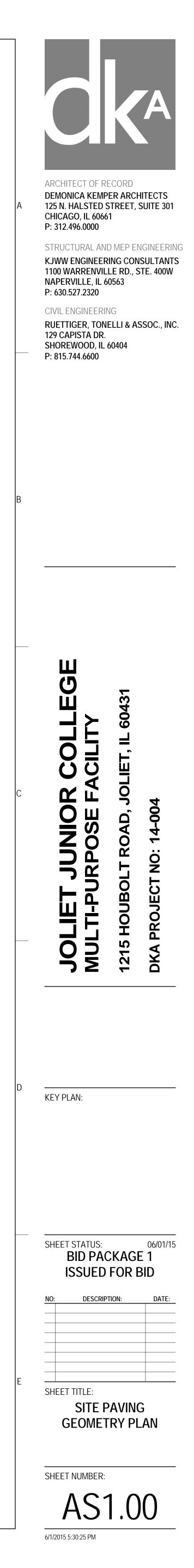


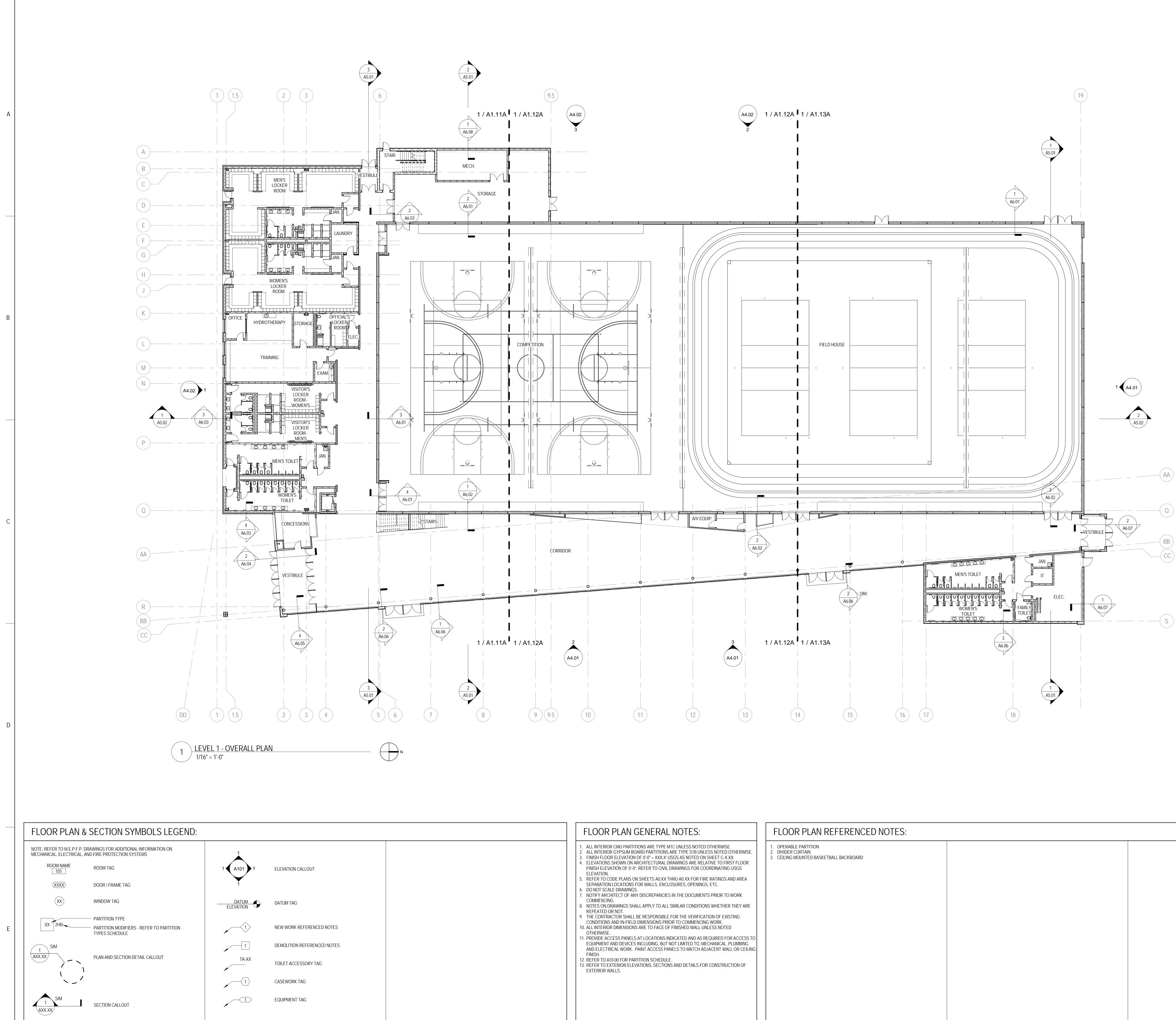
3. ALL NEW SITE CONCRETE IS COLOR 1 EXCEPT WHERE NOTED OTHERWISE

1. SEE CIVIL DRAWINGS FOR GRADES AND ELEVATIONS 2. SEE CIVIL DRAWINGS FOR EXTENTS OF PROPOSED WORK

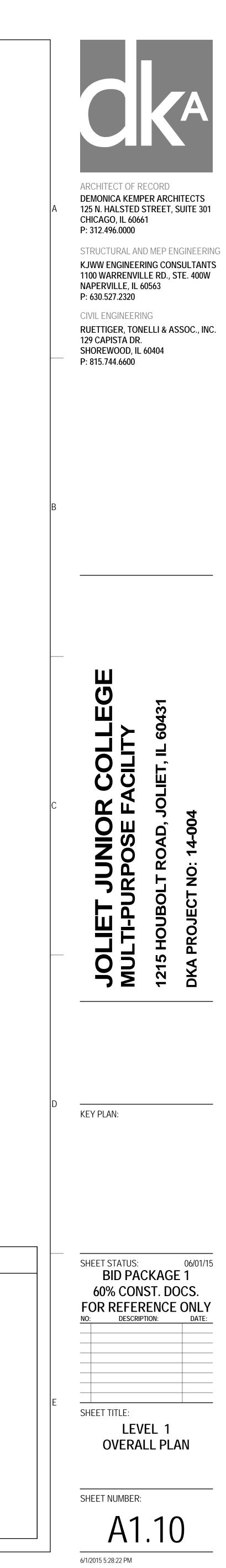
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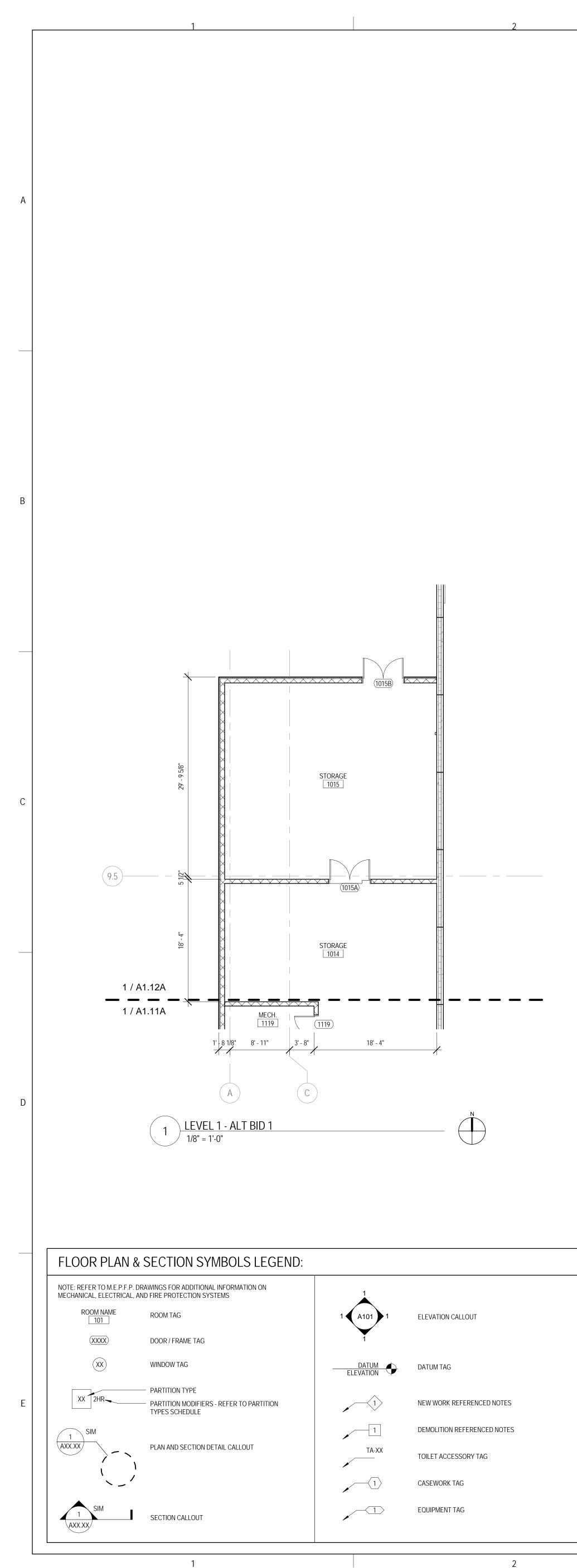
GENERAL NOTES

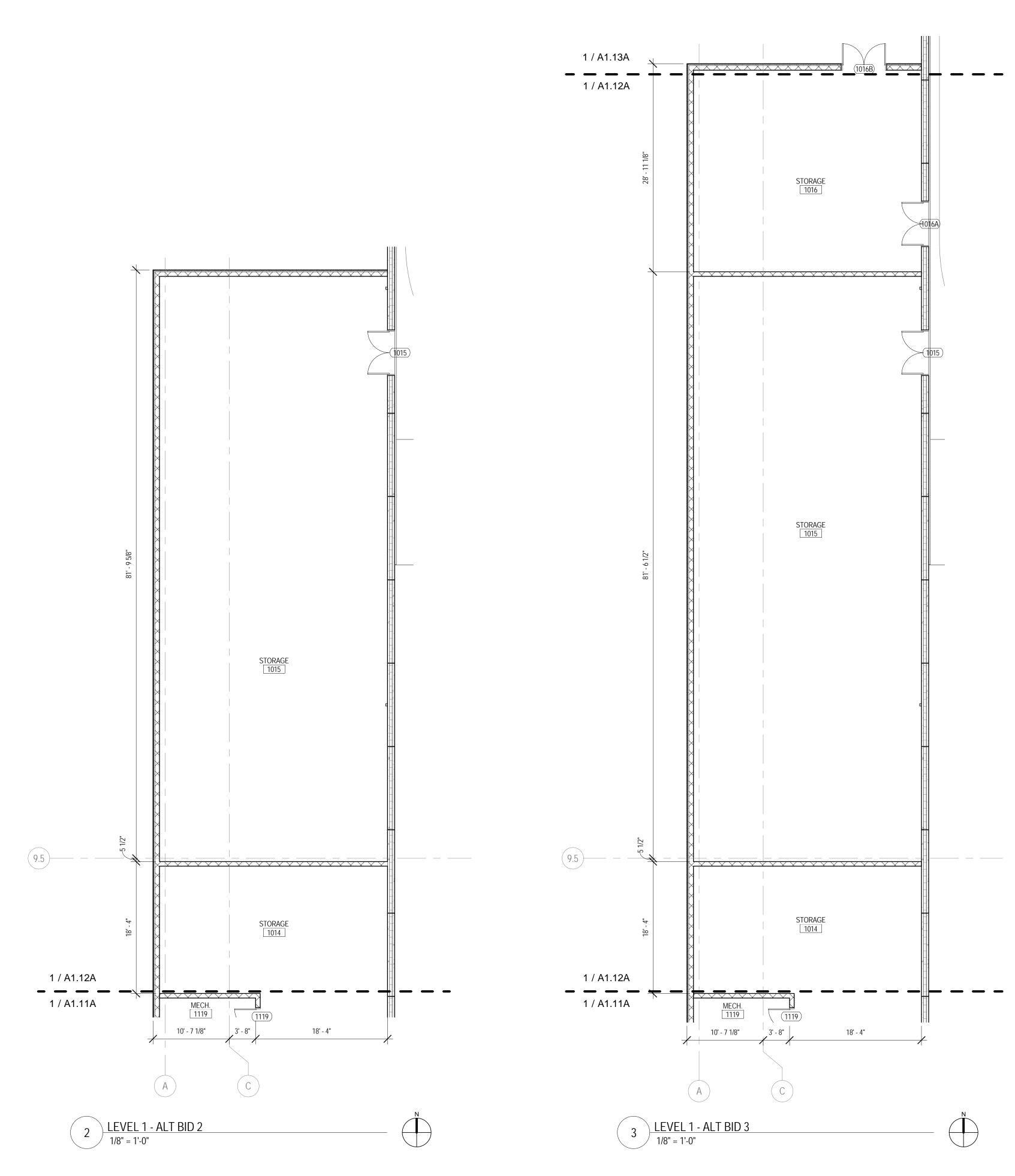




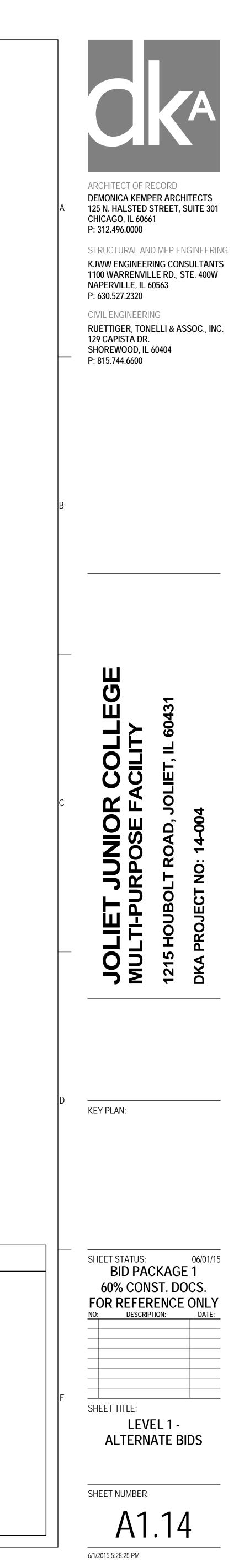
FLOOR PLAN GENERAL NOTES:	FLOOR PLAN REF
 ALL INTERIOR CMU PARTITIONS ARE TYPE MIC UNLESS NOTED OTHERWISE. ALL INTERIOR GYPSUM BOARD PARTITIONS ARE TYPE SIB UNLESS NOTED OTHERWISE. FINISH FLOOR ELEVATION OF 0'-0" = XXX.X' USGS AS NOTED ON SHEET C-X.XX. ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS ARE RELATUE TO FIRST FLOOR FINISH ELEVATION OF 0'-0". REFER TO CIVIL DRAWINGS FOR COORDINATING USGS ELEVATION. REFER TO CODE PLANS ON SHEETS A0.XX THRU A0 XX FOR FIRE RATINGS AND AREA SEPARATION LOCATIONS FOR WALLS, ENCLOSURES, OPENINGS, ETC. DO NOT SCALE DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO WORK COMMENCING. NOTES ON DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS WHETHER THEY ARE REPEATED OR NOT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF EXISTING CONDITIONS AND IN-FIELD DIMENSIONS PRIOR TO COMMENCING WORK. ALL INTERIOR DIMENSIONS ARE TO FACE OF FINISHED WALL UNLESS NOTED OTHERWISE. PROVIDE ACCESS PANELS AT LOCATIONS INDICATED AND AS REQUIRED FOR ACCESS TO EQUIPMENT AND DEVICES INCLUDING, BUT NOT LIMITED TO, MECHANICAL, PLUMBING AND ELECTRICAL WORK. PAINT ACCESS PANELS TO MATCH ADJACENT WALL OR CEILING FINISH. REFER TO A10.00 FOR PARTITION SCHEDULE. REFER TO A10.00 FOR PARTITION SCHEDULE. REFER TO EXTERIOR ELEVATIONS, SECTIONS AND DETAILS FOR CONSTRUCTION OF EXTERIOR WALLS. 	 OPERABLE PARTITION DIVIDER CURTAIN CEILING MOUNTED BASKETBALI

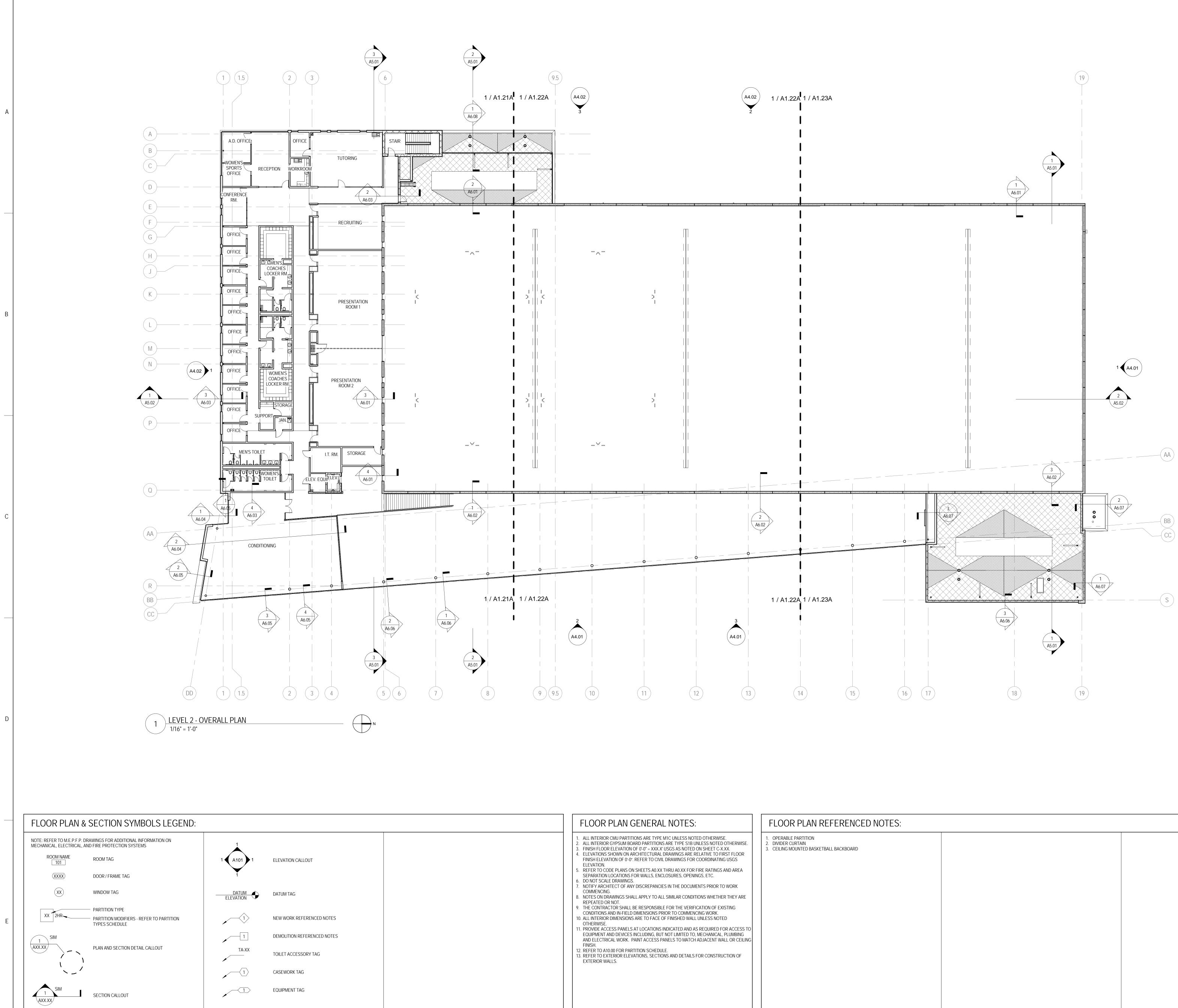




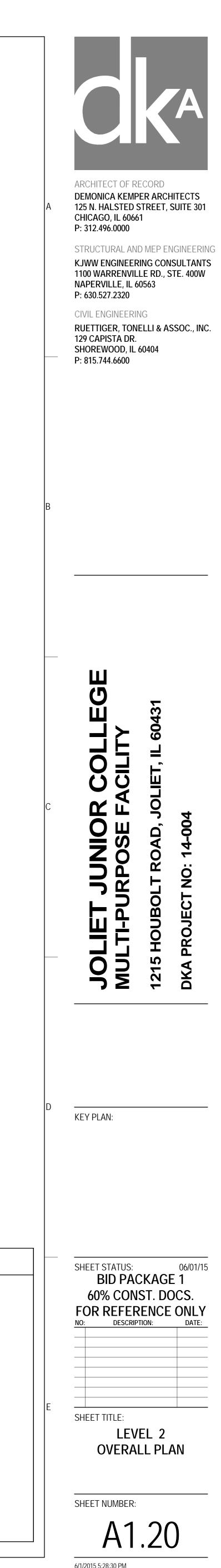


FLOOR PLAN GENERAL NOTES:	FLOOR PLAN REFERENCED NOTES:	
 ALL INTERIOR CMU PARTITIONS ARE TYPE MIC UNLESS NOTED OTHERWISE. ALL INTERIOR GYPSUM BOARD PARTITIONS ARE TYPE STB UNLESS NOTED OTHERWISE. FINISH FLOOR ELEVATION OF 0'-0" = XXX.X' USGS AS NOTED ON SHEET C-X.XX. ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS ARE RELATIVE TO FIRST FLOOR FINISH ELEVATION OF 0'-0". REFER TO CIVIL DRAWINGS FOR COORDINATING USGS ELEVATION. REFER TO CODE PLANS ON SHEETS A0.XX THRU A0.XX FOR FIRE RATINGS AND AREA SEPARATION LOCATIONS FOR WALLS, ENCLOSURES, OPENINGS, ETC. DO NOT SCALE DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO WORK COMMENCING. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO WORK COMMENCING. NOTES ON DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS WHETHER THEY ARE REPEATED OR NOT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF EXISTING CONDITIONS AND IN-FIELD DIMENSIONS PRIOR TO COMMENCING WORK. ALL INTERIOR DIMENSIONS ARE TO FACE OF FINISHED WALL UNLESS NOTED OTHERWISE. PROVIDE ACCESS PANELS AT LOCATIONS INDICATED AND AS REQUIRED FOR ACCESS TO EQUIPMENT AND DEVICES INCLUDING, BUT NOT LIMITED TO, MECHANICAL, PLUMBING AND ELECTRICAL WORK. PAINT ACCESS PANELS TO MATCH ADJACENT WALL OR CEILING FINISH. REFER TO A10.00 FOR PARTITION SCHEDULE. REFER TO EXTERIOR ELEVATIONS, SECTIONS AND DETAILS FOR CONSTRUCTION OF EXTERIOR WALLS. 	1. OPERABLE PARTITION 2. DIVIDER CURTAIN 3. CEILING MOUNTED BASKETBALL BACKBOARD	





FLOOR PLAN GENERAL NOTES:	FLOOR PLAN R
 ALL INTERIOR CMU PARTITIONS ARE TYPE MIC UNLESS NOTED OTHERWISE. ALL INTERIOR GYPSUM BOARD PARTITIONS ARE TYPE SIB UNLESS NOTED OTHERWISE. FINISH FLOOR ELEVATION OF 0'-0" - XXX X' USGS AS NOTED ON SHEET C-XXX. ELEVATION SHOWN ON ARCHITECTURAL DRAWINGS ARE RELATIVE TO FIRST FLOOR FINISH ELEVATION OF 0'-0". REFER TO CIVIL DRAWINGS FOR COORDINATING USGS ELEVATION. REFER TO CODE PLANS ON SHEETS A0 XX THRU A0 XX FOR FIRE RATINGS AND AREA SEPARATION LOCATIONS FOR WALLS, ENCLOSURES, OPENINGS, ETC. DO NOT SCALE DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO WORK COMMENCING. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO WORK COMMENCING. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE VERIFICATION OF EXISTING CONDITIONS AND IN-FIELD DIMENSIONS PRIOR TO COMMENCING WORK. ALL INTERIOR DIMENSIONS ARE TO FACE OF FINISHED WALL UNLESS NOTED OTHERWISE. ALL INTERIOR DIMENSIONS ARE TO FACE OF FINISHED WALL UNLESS NOTED OTHERWISE. PROVIDE ACCESSS PANELS AT LOCATIONS INDICATED AND AS REQUIRED FOR ACCESS TO EQUIPMENT AND DEVICES INCLUDING, BUT NOT LIMITED TO, MECHANICAL, PLUMBING AND ELECTRICAL WORK. PAINT ACCESS PANELS TO MATCH ADJACENT WALL OR CEILING FINISH. REFER TO A 10.00 FOR PARTITION SCHEDULE. REFER TO A 10.00 FOR PARTITION	 OPERABLE PARTITION DIVIDER CURTAIN CEILING MOUNTED BASKETI



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	DESIGN CRITERIA		FOUND
	1. CODES: INTERNATIONAL BUILDING CODE (IBC) 2003 ASCE 7-02	1.	CROSS REFERENCE ARCHITECTURAL AN AND PLACEMENT OF ALL ANCHOR BOLTS WALLS AND PIERS.
	AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-02) AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR MASONRY	2. 3.	FOUNDATION DESIGN BASED ON GEOTED MIDWEST LLC. REPORT IS ON FILE WITH ALL EXCAVATIONS SHALL BE PROPERLY
	STRUCTURES (ACI 530-02) AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS	5.	RETAINING WALLS BEFORE CONCRETE F SHALL BRACE OR PROTECT ALL WALLS E IS COMPLETELY IN PLACE AND HAS ATTA
	ALLOWABLE STRENGTH DESIGN (ASD)(AISC 360-05) THIRTEENTH EDITION, 2005 2. DESIGN LOADS: OCCUPANCY CATEGORY III		DESIGN, PERMITS, AND INSTALLATION OF FOR FOUNDATION WALLS UNTIL SUPPOR BRACED TO RESIST LATERAL LOADS.
	BACKFILL EQUIVALENT FLUID PRESSURE 70 PCF	4. 5.	PROVIDE SAW CUT CONTROL JOINTS IN
A	SEISMIC (IBC) SOIL CLASSIFICATION B SPECTRAL RESPONSE ACCELERATION, Ss 0.192 g		INTERMEDIATE JOINTS SPACED AT A MAX OTHERWISE. CONTROL JOINTS SHALL BE HAVE A MAXIMUM LENGTH TO WIDTH RA ENTRANT CORNERS FORMED IN SLAB ON
	SPECTRAL RESPONSE ACCELERATION, S1 0.067 g SHORT PERIOD DESIGN ACCELERATION, Sds 0.128 g LONG PERIOD DESIGN ACCELERATION, Sd1 0.045 g		R
	IMPORTANCE FACTOR1.25SEISMIC DESIGN CATEGORYAANALYSIS PROCEDURESIMPLIFIED ANALYSIS	1.	FOR CAST-IN-PLACE CONCRETE THE FOL REINFORCEMENT UNLESS NOTED OTHEF CONCRETE CAST AGAINST AND
	SEISMIC RESPONSE COEFFICIENT, Cs 0.01 DESIGN BASE SHEAR, V = Cs x W WIND - PARAMETERS		PERMANENTLY EXPOSED TO EAR CONCRETE EXPOSED TO EARTH (NO. 6 BARS OR LARGER
	BASIC WIND SPEED90 MPHIMPORTANCE FACTOR1.15EXPOSURE CLASSC		NO. 5 BARS OR SMALLER SLABS, WALLS, JOISTS NOT EXPO
	WIND - MAIN WIND FORCE RESISTING SYSTEM PRESSURES DESIGN PRESSURE 23 PSF ROOF UPLIFT PRESSURE 27 PSF (GROSS) [LC: 1.0WL]		TO WEATHER OR IN CONTACT WI NO. 14 AND NO. 18 BARS NO. 11 BARS OR SMALLER
	ROOF UPLIFT PRESSURE 5 PSF (NET) [LC: 0.6DL + 1.0 WL] WIND - ELEMENTS AND COMPONENTS PER APPLICABLE BUILDING CODE	2.	BEAMS AND COLUMNS NOT EXPO WEATHER OR IN CONTACT WITH I DIMENSIONS OF CONCRETE COVER FOR
	LIVE LOADS TYPICAL 80 PSF REDUCIBLE	3	REINFORCING BARS. FOR BEAMS OR COI STIRRUPS OR TIES. BAR SPLICES: SPLICE REINFORCING WHE
	PRESENTATION AREA 100 PSF REDUCIBLE MECHANICAL 125 PSF UNREDUCIBLE STAIRS 100 PSF UNREDUCIBLE	0.	'B' AS DEFINED IN ACI 318. IF SPLICE LEN INCHES) AS FOLLOWS:
	SNOW LOADS GROUND SNOW LOAD 25 PSF SNOW EXPOSURE FACTOR 1.0		3000 P BAR SIZE OTHE
	THERMAL FACTOR1.0IMPORTANCE FACTOR1.1FLAT-ROOF SNOW LOAD25 PSFDESIGN LOAD25 PSF		#3 22 #4 29 #5 36
	RAIN-ON-SNOW SURCHARGE0 PSFDRIFTING LOADREFER TO \$5.02		#6 43 #7 63
В	3. NET ALLOWABLE SOIL BEARING PRESSURES SPREAD FOOTINGS 4000 PSF CONTINUOUS FOOTINGS 4000 PSF		#8 72 #9 81 #10 91
	4. MINIMUM FROST PROTECTION DEPTH FROM ADJACENT GRADE: EXTERIOR FOOTING ADJACENT TO HEATED AREA -3'-6" EXTERIOR FOOTINGS IN UNHEATED AREA -4'-0"		#11 101 LAP LENGTHS ASSUME CLEAR SP/
	5. SPECIFIED 28-DAY CONCRETE COMPRESSIVE STRENGTHS (fc) FOOTINGS 3000 PSI FOUNDATION WALLS 4000 PSI	4.	COVER OF 1 BAR DIAMETER. FOR AS HORIZONTAL BARS WITH MORE EPOXY FOR EPOXY DOWELING SHALL BE
	GRADE BEAMS4000 PSISLABS ON GRADE4000 PSITYPICAL - UNLESS NOTED OTHERWISE4000 PSI		EMBEDMENT LENGTH SHALL BE AS INDIC INSTALLATION INSTRUCTIONS.
	 CONCRETE REINFORCING STEEL SHALL BE HIGH STRENGTH NEW BILLET STEEL CONFORMING TO THE FOLLOWING STANDARDS: DEFORMED BARS ASTM A615, GRADE 60 Fy = 60 KSI 	1.	PRESTRE FOUNDATION DESIGN IS BASED ON PREC
	WELDED WIRE REINFORCING ASTM A185 Fy = 65 KSI 7. MATERIALS FOR CONCRETE UNIT MASONRY SHALL CONFORM TO THE FOLLOWING STANDARDS: CONCRETE MASONRY UNITS ASTM C90	2.	
	MORTAR MATERIALS ASTM C270, TYPE S GROUT FOR MASONRY ASTM C476 REINFORCING STEEL FOR MASONRY ASTM A615, GRADE 60 (UNO)		PROVIDED BY PRECAST CONCRETE SHE/ ORTHOGONAL BUILDING DIRECTION. THE DIAPHRAGMS THAT DISTRIBUTE THE LAT
	PLATE AND BENT BAR ANCHORSASTM A36SHEET METAL ANCHORS AND TIESASTM A1008WIRE MESH TIESASTM A185WIRE TIES AND ANCHORSASTM A951		LATERAL SHEAR WALLS. THE CONCRETE BUILDING FOUNDATION.
	ANCHOR BOLTS FOR MASONRY ASTM A307, GRADE A 8. MINIMUM 28 DAY COMPRESSIVE STRENGTHS FOR MASONRY (f'm):	1.	MASONRY (MORTAR SHALL CONFORM TO AMERICAN CITED UNDER DESIGN CRITERIA, AND PR
	DESIGN ASSEMBLY STRENGTH, f'm 1500 PSI INDIVIDUAL CONCRETE MASONRY UNITS 1900 PSI MORTAR FOR MASONRY (TYPE S REQUIRED) 1800 PSI GROUT FOR MASONRY 2000 PSI	2.	COMPRESSIVE STRENGTH OF MORTAR.
	9. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING STANDARDS: WIDE FLANGE SECTIONS ASTM A992 Fy = 50 KSI OTHER ROLLED SECTIONS ASTM A36 Fy = 36 KSI	3.	
	SQUARE AND RECTANGULAR HSSASTM AS0Fy = 30 KS1ROUND HSSASTM A500, GR BFy = 46 KS1SQUARE, RECTANGULAR, ROUND HSSASTM A500, GR BFy = 42 KS1SQUARE, RECTANGULAR, ROUND HSSASTM A1085Fy = 50 KS1		STRUCTURE IS INSTALLED AS RECOMME PRACTICE FOR BRACING MASONRY WALL MASONRY WALL BRACING. THIS BRACING
С	PIPE SECTIONSASTM A53, GR BFy = 35 KSICAP AND BASE PLATESASTM A36Fy = 36 KSICONNECTION MATERIALASTM A36Fy = 36 KSI	5.	MASONRY WALLS FROM WIND LOADS, WI BY THE ROOF AND FLOOR STRUCTURE.
0	STIFFENER PLATESASTM A36Fy = 36 KSIANCHOR RODSASTM F1554, GR 36Fy = 36 KSIHIGH STRENGTH BOLTS (AISC 360-05 ASD)A325 (3/4" DIAMETER UNO)Fv = 24 KSIHIGH STRENGTH DOLTS (AISC 360-05 ASD)A325 (3/4" DIAMETER UNO)Fv = 24 KSI	5.	NOT GIVEN ON THE DRAWINGS PROVIDE TO BE MECHANICALLY SPLICED.
	HIGH STRENGTH BOLTS (AISC 360-05 ASD) A490 (3/4" DIAMETER UNO) Fv = 30 KSI TWIST-OFF BOLT/NUT/WASHER ASSEMBLIES ASTM F1852 HEAVY HEX NUTS ASTM A563 WASHERS ASTM F436		MINIM BAR S #3
	HEADED WELDED STEEL STUDS ELECTRODES FOR ARC WELDING AWS 5.1, E70XX 10. STEEL DECK AND ALL ACCESSORIES SHALL BE FORMED FROM STEEL SHEETS CONFORMING TO THE		#3 #4 #5
	FOLLOWING STANDARDS: GALVANIZED COMPOSITE FLOOR DECK ASTM A653, GR 50 [40] Fy = 50 KSI PAINTED STEEL ROOF DECK ASTM A1008, GR C Fy = 33 KSI		#6 #7 #8
	GENERAL NOTES		#0 #9
	 NEITHER THE PROFESSIONAL ACTIVITIES OF THE ENGINEER, NOR THE PRESENCE OF THE ENGINEER OR HIS OR HER EMPLOYEES AND SUBCONSULTANTS AT THE CONSTRUCTION SITE, SHALL RELIEVE THE CONTRACTOR AND ANY OTHER ENTITY OF THEIR OBLIGATIONS, DUTIES, AND RESPONSIBILITIES INCLUDING, 	1.	
	BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES, OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING, OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THE ENGINEER AND HIS OR HER PERSONNEL	2. 3.	
	HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR OTHER ENTITY OR THEIR EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PRECAUTIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE JOBSITE SAFETY. THE ENGINEER AND	4.	STRUCTURAL JOINTS USING ASTM A325 (MATERIAL ASTM DESIGNATION. BOLTS IN SLOTTED HOLES SHALL BE LOC
	THE ENGINEER'S CONSULTANTS SHALL BE MADE ADDITIONAL INSUREDS UNDER THE CONTRACTOR'S GENERAL LIABILITY INSURANCE POLICY. 2. STRUCTURAL DRAWINGS INCLUDE DESIGN REQUIREMENTS AND DIMENSIONS FOR STRUCTURAL INTEGRITY		COMPLETE, UNLESS DETAILED OTHERWI
	BUT DO NOT SHOW ALL DETAIL DIMENSIONS TO FIT INTRICATE ARCHITECTURAL AND MECHANICAL DETAILS. CONTRACTOR SHALL SO CONSTRUCT THE WORK SO THAT IT WILL CONFORM TO THE CLEARANCES REQUIRED BY ARCHITECTURAL, MECHANICAL AND ELECTRICAL DESIGN.		
	3. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS NOTED OTHERWISE, THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION.		
D	 DETAILS AND NOTES ON THE STRUCTURAL DRAWINGS ARE INTENDED TO BE TYPICAL FOR SIMILAR SITUATIONS ELSEWHERE. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, ELECTRICAL, AND PLUMBING 		
	WITH APPROPRIATE TRADE CONTRACTORS. OPENING SIZES AND LOCATIONS SHOWN FOR DUCTS, PIPES, INSERTS AND OTHER PENETRATIONS WHEN SHOWN ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED PRIOR TO FORMING.		
	 DIMENSIONS, NOTES, AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NEW CONSTRUCTION INTERFACES WITH EXISTING CONDITIONS, FIELD VERIFY EXISTING DIMENSIONS, 		
	MEMBER SIZES AND ELEVATIONS SHOWN ON THE DRAWINGS PRIOR TO STARTING CONSTRUCTION. ALL DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT.		
	 8. REFER TO ARCHITECTURAL DRAWINGS FOR THE FOLLOWING: A. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, UNLESS NOTED OTHERWISE. B. SIZE AND LOCATIONS OF ALL INTERIOR AND EXTERIOR MASONRY WALLS. 		
	C. SIZE AND LOCATION OF ALL CONCRETE CURBS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGES IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC.		
	 D. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS UNLESS NOTED OTHERWISE. E. FLOOR, WALL AND ROOF FINISHES. F. STAIR FRAMING AND DETAILS. ALSO REFER TO STAIR MANUFACTURER'S APPROVED SHOP DRAWINGS 		
	 G. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS. H. FIRE PROTECTION REQUIREMENTS. 		
	 9. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING: A. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN. 		
	B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.C. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES.		
	 D. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES OR CURBS AND ANCHOR BOLTS FOR MOTOR MOUNTS. 11. SHOP DRAWINGS PREPARED BY SUPPLIERS, SUBCONTRACTORS, AND OTHERS SHALL BE REVIEWED AND 		
	COORDINATED PRIOR TO SUBMITTING TO THE ARCHITECT. EACH SHOP DRAWING SUBMITTED SHALL BE STAMPED, INITIALED AND DATED INDICATING REVIEW BY THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR.		
E	12. SHOP DRAWINGS PREPARED BY THE SUBCONTRACTORS, SUPPLIERS, AND OTHERS SHALL BE REVIEWED BY THE ARCHITECT ONLY FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. REVIEW BY THE		
L	ARCHITECT SHALL NOT BEGIN WITHOUT THE PRIOR COORDINATION AND REVIEW BY THE GENERAL CONTRACTOR. WORK SHALL NOT BEGIN WITHOUT REVIEW BY THE ARCHITECT. NOTATIONS MADE BY THE ARCHITECT ON THE SHOP DRAWINGS DO NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS.		
	 OPTIONS ARE FOR THE CONTRACTOR'S CONVENIENCE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES RESULTING FROM CHOOSING AN OPTION AND SHALL COORDINATE ALL DETAILS. 		
	 THE COST OF ADDITIONAL DESIGN WORK NECESSITATED BY SELECTION OF AN OPTION SHALL BE BORNE BY THE CONTRACTOR. 14. THE COST OF ADDITIONAL DESIGN WORK DUE TO ERRORS OR OMISSIONS BY THE CONTRACTOR IN CONTRACTOR IN CONTRACTOR IN		
	CONSTRUCTION SHALL BE BORNE BY THE CONTRACTOR. 15. ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW OR RECORD SHALL BEAR THE STAMP AND SIGNATURE OF A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE STATE OF ILLINOIS.		
	16. ELEVATIONS ARE BASED ON THE FIRST FLOOR ELEVATION OF (+ 0' - 0") WHICH IS EQUAL TO CIVIL ELEVATION OF (XXX' - X").		

FOUNDATIONS/SLAB-ON-GRADE

SS REFERENCE ARCHITECTURAL AND STRUCTURAL DRAWINGS TO ASSURE PROPER DIMENSIONS PLACEMENT OF ALL ANCHOR BOLTS, INSERTS, NOTCHES, EDGES IN GRADE BEAMS, FOUNDATION

NDATION DESIGN BASED ON GEOTECHNICAL ENGINEERING REPORT DATED JANUARY 29, 2015 BY ECS VEST LLC. REPORT IS ON FILE WITH THE ARCHITECT. EXCAVATIONS SHALL BE PROPERLY AND SAFELY BACKFILLED. DO NOT PLACE BACKFILL BEHIND

AINING WALLS BEFORE CONCRETE HAS ATTAINED SPECIFIED COMPRESSIVE STRENGTH. CONTRACTOR L BRACE OR PROTECT ALL WALLS BELOW GRADE FROM LATERAL LOADS UNTIL SUPPORTING FLOOR DMPLETELY IN PLACE AND HAS ATTAINED FULL STRENGTH. CONTRACTOR SHALL PROVIDE FOR GN, PERMITS, AND INSTALLATION OF SHORING AND/OR SHEETING. BACKFILLING IS NOT PERMITTED FOUNDATION WALLS UNTIL SUPPORTED SLAB ABOVE IS IN PLACE OR THE WALL IS ADEQUATELY CED TO RESIST LATERAL LOADS. ESS NOTED OTHERWISE, ALL FOOTINGS SHALL BE CENTERED UNDER WALLS, PIERS OR COLUMNS.

/IDE SAW CUT CONTROL JOINTS IN ALL SLABS-ON-GRADE. LOCATE JOINTS ALONG COLUMN LINES WITH RMEDIATE JOINTS SPACED AT A MAXIMUM OF 36 TIMES THE SLAB THICKNESS, UNLESS NOTED ERWISE. CONTROL JOINTS SHALL BE CONTINUOUS, NOT STAGGERED OR OFFSET. SLAB PANELS SHALL E A MAXIMUM LENGTH TO WIDTH RATIO OF 1.5 TO 1. PROVIDE ADDITIONAL CONTROL JOINTS AT ALL RE-RANT CORNERS FORMED IN SLAB ON GRADE.

REINFORCING STEEL CAST-IN-PLACE CONCRETE THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR

ORCEMENT UNLESS NOTED OTHERWISE:	
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3 INCHES
CONCRETE EXPOSED TO EARTH OR WEATHER NO. 6 BARS OR LARGER NO. 5 BARS OR SMALLER	2 INCHES 1 1/2 INCHES
SLABS, WALLS, JOISTS NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH NO. 14 AND NO. 18 BARS NO. 11 BARS OR SMALLER	1 1/2 INCHES 3/4 INCHES
BEAMS AND COLUMNS NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH	1 1/2 INCHES

1 1/2 INCHES NSIONS OF CONCRETE COVER FOR REINFORCEMENT INDICATED ON DRAWINGS ARE TO OUTERMOST FORCING BARS. FOR BEAMS OR COLUMNS WITH STIRRUPS OR TIES, CLEAR COVER INDICATED IS TO

SPLICES: SPLICE REINFORCING WHERE INDICATED ON THE DRAWINGS. ALL SPLICES SHALL BE CLASS DEFINED IN ACI 318. IF SPLICE LENGTH IS NOT GIVEN ON THE DRAWINGS, PROVIDE LAP LENGTHS (IN

	3000 PSI CONCRETE		4000 PSI C	ONCRETE
BAR SIZE	OTHER	TOP	OTHER	TOP
#3	22	28	19	25
#4	29	38	25	33
#5	36	47	31	41
#6	43	56	37	49
#7	63	81	54	71
#8	72	93	62	81
#9	81	105	70	91
#10	91	118	79	102
#11	101	131	87	114

LAP LENGTHS ASSUME CLEAR SPACING BETWEEN BARS OF 2 BAR DIAMETERS, AND A MINIMUM COVER OF 1 BAR DIAMETER. FOR DEVELOPMENT LENGTHS, DIVIDE BY 1.3. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 1'-0" OF FRESH CONCRETE BELOW. (Y FOR EPOXY DOWELING SHALL BE HILTI RE 500 SD, POWERS PE 1000+, OR SIMPSON SET XP. EDMENT LENGTH SHALL BE AS INDICATED ON THE DRAWINGS. INSTALL PER MANUFACTURER'S

PRESTRESSED /PRECAST CONCRETE

NDATION DESIGN IS BASED ON PRECAST CONCRETE SHEAR WALL PANELS TIED TOGETHER FOR UNIFORM RAL SHEAR DISTRIBUTION TO THE FOUNDATIONS. BASED ON ACTUAL WALL PANEL SYSTEM SUPPLIED, IFICATIONS TO THE FOUNDATION PLAN MAY BE REQUIRED.

ATERAL LOAD RESISTANCE AND STABILITY OF THE BUILDING IN THE COMPLETED STRUCTURE IS /IDED BY PRECAST CONCRETE SHEAR WALLS. THESE PROVIDE ALL LATERAL LOAD RESISTANCE IN EACH HOGONAL BUILDING DIRECTION. THE COMPOSITE STEEL DECK AND ROOF DECK SERVE AS HORIZONTAL HRAGMS THAT DISTRIBUTE THE LATERAL WIND AND SEISMIC FORCES HORIZONTALLY TO THE VERTICAL RAL SHEAR WALLS. THE CONCRETE SHEAR WALLS CARRY THE APPLIED LATERAL LOADS TO THE DING FOUNDATION.

MASONRY (CONCRETE MASONRY UNITS)

TAR SHALL CONFORM TO AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) DESIGNATION D UNDER DESIGN CRITERIA, AND PROJECT SPECIFICATIONS. REFER TO DESIGN CRITERIA FOR MINIMUM

R TO ARCHITECTURAL DRAWINGS FOR SURFACE AND HEIGHT OF UNITS, LAYING PATTERN AND JOINT . ALL BLOCK SHALL BE RUNNING BOND UNLESS NOTED OTHERWISE. LOAD BEARING CONCRETE MASONRY WALLS FOR THIS PROJECT WERE DESIGNED TO SPAN VERTICALLY BE BRACED BY THE ROOF AND FLOOR FRAMING ELEMENTS OF THE STRUCTURE. DURING

TRUCTION THE MASONRY CONTRACTOR SHALL PROVIDE LATERAL BRACING UNTIL THE ROOF JCTURE IS INSTALLED AS RECOMMENDED BY ACI 530 AND THE LATEST REVISION OF "STANDARD

CTICE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION", PREPARED BY THE COUNCIL FOR ONRY WALL BRACING. THIS BRACING IS TO PREVENT UNNECESSARY STRESS OR DAMAGE TO THE DNRY WALLS FROM WIND LOADS, WHICH CAN OCCUR WHILE THE WALLS ARE NOT PROPERLY BRACED

SPLICES (IBC 2003): SPLICE REINFORCING WHERE INDICATED ON THE DRAWINGS. IF SPLICE LENGTH IS GIVEN ON THE DRAWINGS PROVIDE LAP LENGTHS (IN INCHES) AS FOLLOWS. BARS LARGER THAN #9 ARE

MINIMUM LAP SPLICE LENGTH BAR SIZE 8" CMU 12" CMU

#3	19	19
#4	25	25
#5	31	31
#6	57	53
#7	79	61
#8	113	75
#9	NP	91

STRUCTURAL STEEL

ER TO DRAWINGS FOR DETAIL OF DECK OPENINGS. REFER TO ARCHITECTURAL MECHANICAL, TRICAL DRAWINGS, ETC., FOR EXACT SIZE, LOCATION, AND COUNT OF REQUIRED OPENINGS. ESS NOTED OTHERWISE ALL WELDS SHALL BE CONTINUOUS 1/4" FILLET WELDS. STRENGTH BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH AISC "SPECIFICATIONS FOR CTURAL JOINTS USING ASTM A325 OR A490 BOLTS." SEE DESIGN CRITERIA FOR BOLT SIZE AND ERIAL ASTM DESIGNATION.

'S IN SLOTTED HOLES SHALL BE LOCATED IN THE CENTER OF THE HOLE AFTER FIELD ASSEMBLY IS PLETE, UNLESS DETAILED OTHERWISE.

POST INSTALLED STEEL ANCHORS

1. POST INSTALLED EXPANSION ANCHORS SERVING AS THE BASIS OF DESIGN ARE SHOWN ON THE DRAWINGS. ACCEPTABLE ALTERNATE ANCHORS MAY BE SUPPLIED PROVIDED THAT THE QUANTITY AND CONFIGURATION MATCHES THE CAPACITY OF THE DESIGN ANCHOR QUANTITY AND CONFIGURATION. ANY ACCEPTABLE ALTERNATES ARE TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. THE FOLLOWING TABLE SUMMARIZES THE EXPANSION ANCHORS USED ON THE PROJECT:

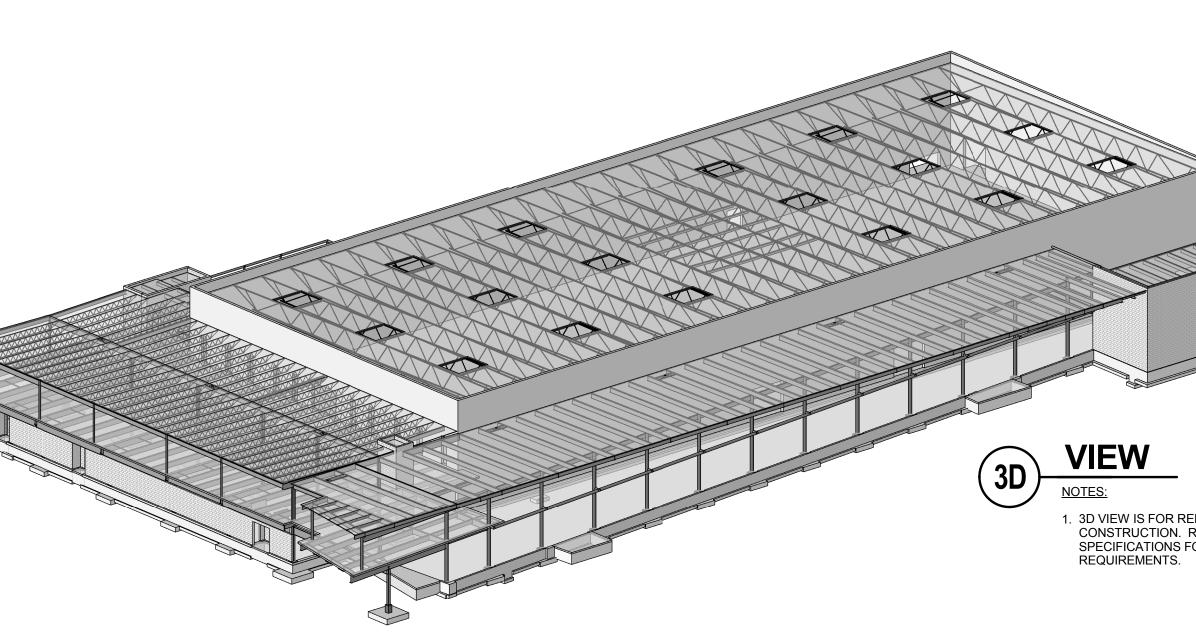
	ANCHORED INTO:	BASIS OF DESIGN	ACCEPTABLE ALTERNATES AT CONTRACTOR'S OPTION
	HOLLOW CMU	HILTI HLC SLEEVE	POWERS LOK/BOLT, ITW/RED HEAD DYNABOLT SL
	GROUTED CMU	HILTI KWIK BOLT 3	POWER STUD+ SD1, SIMPSON WEDGE-ALL
	UNCRACKED CONCRETE	HILTI KWIK BOLT 3	POWER STUD+ SD2, ITW/RED HEAD TRUBOLT- SIMPSON STRONG BOLT
2.	RODS, HEAVY DUTY NUTS ANCHORING SYSTEMS SE ALTERNATE ANCHORS M CAPACITY OF THE DESIG BE SUBMITTED TO THE S WRITTEN INSTRUCTIONS	S AND WASHERS, AND A TW ERVING AS THE BASIS OF D AY BE SUPPLIED PROVIDED N ANCHOR QUANTITY AND TRUCTURAL ENGINEER FOI 5. ANCHORING SYSTEMS IN	TO CONCRETE SHALL CONSIST OF ASTM A193 GRA VO COMPONENT STRUCTURAL ADHESIVE. ADHESIV ESIGN ARE SHOWN ON THE DRAWINGS. ACCEPTAE D THAT THE QUANTITY AND CONFIGURATION MATC CONFIGURATION. ANY ACCEPTABLE ALTERNATES R REVIEW. INSTALL IN ACCORDANCE WITH MANUF. TO HOLLOW CMU SHALL INCLUDE A SCREEN TUBE ICHORS USED ON THE PROJECT:
	ANCHORED INTO:	BASIS OF DESIGN	ACCEPTABLE ALTERNATES AT CONTRACTOR'S OPTION
	HOLLOW CMU	HILTI HIT HY 70	POWERS AC 100+ GOLD, ITW A7 ACRYLIC
		1	

	STEEL	DECK
CONCRETE	HILTI HIT HY 200	POWERS PE 1000+
GROUTED CMU	HILTI HIT HY 70	POWERS AC 100+ GOLD, ITW

- 1. DECK SIZE AND GAGE INDICATED IN THE DRAWINGS ARE BASED ON THE FOLLOWING: A. VULCRAFT 2008 [2003] CATALOG FOR GRAVITY DESIGN LOADS. B. STEEL DECK INSTITUTE (SDI) DIAPHRAGM DESIGN MANUAL 3RD EDITION FOR DIAPHRAGM LOADS. C. VULCRAFT 2008 [2003] CATALOG FOR UNSHORED CONSTRUCTION SPANS.
- 2. STEEL ROOF DECK GALVANIZING SHALL CONFORM TO ASTM A924 WITH A MINIMUM COATING OF G60. 3. COMPOSITE STEEL FLOOR DECK GALVANIZING SHALL CONFORM TO ASTM A924 WITH A MINIMUM COATING
- OF G60. 4. CORRUGATED STEEL FORM DECK GALVANIZING SHALL CONFORM TO ASTM A924 WITH A MINIMUM COATING OF G60.
- 5. UNLESS NOTED OTHERWISE, DECK SHALL BE FASTENED WITH 5/8" DIAMETER PUDDLE WELDS AT 12" OC AT ALL SUPPORTS AND EDGES. PROVIDE 16 GAGE WELDING WASHERS WHEN RECOMMENDED BY THE DECK MANUFACTURER FOR THE GAGE OF STEEL DECK SPECIFIED BELOW. SIDE LAPS SHALL BE FASTENED WITH #10 TEK SCREWS, MINIMUM ONE AT EACH MIDSPAN. OPENING EDGES SHALL RECEIVE THE SAME WELDING AS REQUIRED AT DECK ENDS. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS EXPERIENCED IN COLD-FORMED STEEL DECK WORK.
- 6. DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO STEEL ROOF DECKING (LIMITATION NOT REQUIRED WITH CONCRETE ON STEEL DECK). THIS 25 LBS LOAD AND 2'-0" SPACING INCLUDES ADJACENT MECHANICAL, ELECTRICAL, AND ARCHITECTURAL ITEMS HANGING FROM DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, SUPPLEMENTAL FRAMING SUPPORTED OFF STEEL FRAMING WILL NEED TO BE ADDED. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING
- LOCATION AND WEIGHT OF ALL THE ELEMENTS BEING HUNG. 7. USE SUMP PANS AT ALL ROOF DRAINS. MINIMUM THICKNESS FOR SUMP PANS SHALL BE 14 GAGE. LINTELS
- 1. PROVIDE LINTELS OVER ALL OPENINGS AND RECESSES IN MASONRY CONSTRUCTION. THE STRUCTURAL DOCUMENTS REFLECT THE BEST ATTEMPT TO IDENTIFY ALL WALL PENETRATIONS IN THE EXISTING AND NEW CONSTRUCTION. PENETRATIONS NOT IDENTIFIED ON THE DOCUMENTS ARE TO BE TREATED IN A MANNER SIMILAR TO THE IDENTIFIED LOCATIONS. LINTELS IN NON-BEARING MASONRY WALL OPENINGS CAN BE SIZED IN ACCORDANCE WITH [THE MISCELLANEOUS LINTEL SCHEDULE OR] THE NOTE BELOW. LINTELS THAT OCCUR IN EXISTING BEARING WALLS ARE TO BE SIZED ACCORDING TO SIMILAR CONDITIONS AND SPANS IN THE NEW CONSTRUCTION AND LINTEL SCHEDULE. BOTTOM PLATE SIZE SHALL BE A MINIMUM OF 3/8" THICK. THE WIDTH OF THE PLATE SHALL BE 3/4" LESS THAN THE FIELD VERIFIED WALL THICKNESS. THE PLATE SHALL BE THE FULL LENGTH OF THE LINTEL MEMBER. LINTELS ARE NOT REQUIRED OVER OPENINGS THAT ARE 12" WIDE OR LESS AND AT LEAST 1 COURSE BELOW THE TOP OF THE WALL.
- ALL LINTELS SHALL HAVE A MINIMUM OF 8" END BEARING. 3. 4. ALL LINTELS IN EXTERIOR WALL CONSTRUCTION SHALL BE HOT-DIP GALVANIZED, UNO. 5. FOR ALL OPENINGS NOT OTHERWISE DETAILED OR SCHEDULED, MINIMUM LINTELS SHALL BE FOR EACH 4 INCH OF MASONRY WIDTH:
- 0 TO 2'-0" SPAN 5/16" PLATE (3/4" LESS THAN WALL WIDTH) 2'-0" TO 4'-0" SPAN L 3 1/2x3 1/2x1/4 4'-0" TO 6'-0" SPAN L4x3 1/2x5/16 (LLV)
- 6'-0" TO 8'-0" SPAN L5x3 1/2x5/16 (LLV) ALL ANGLES THAT ARE BACK TO BACK SHALL BE WELDED TOP AND BOTTOM 3" AT 12" MINIMUM. 6. BEARING PLATES NOT REQUIRED FOR LINTELS UNLESS NOTED OTHERWISE.
 - STEEL JOISTS
- 1. DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STEEL JOIST INSTITUTE (SJI) SPECIFICATION BY A MEMBER OF THE SJI APPROVED FOR THE TYPE OF JOIST BEING USED. IN LIEU OF THE ABOVE REQUIREMENTS, THE FABRICATOR MAY PROVIDE A CURRENT INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO) RESEARCH RECOMMENDATION APPROVING THE TYPE OF JOIST BEING USED.
- PROVIDE BRIDGING PER SJI SPECIFICATIONS. DESIGN AND PROVIDE UPLIFT BRIDGING TO WITHSTAND A NET UPLIFT PRESSURE AS INDICATED WITHIN DESIGN CRITERIA. WHERE BRIDGING INTERFERES WITH MECHANICAL OR OTHER TRADES INSTALLATIONS, THE FABRICATOR SHALL REMOVE THE BRIDGING AFTER THE METAL DECK IS IN PLACE AND REPLACE AS DIRECTED BY THE STRUCTURAL ENGINEER THROUGH THE ARCHITECT.
- ERECTOR SHALL FOLLOW MANUFACTURER'S AND STEEL JOIST INSTITUTES GUIDELINES FOR ERECTIONS STABILITY AND HANDLING.

4.	ATTACH STEEL JOI ON THE DETAILS, V					WELDS AF	RE INDICATED
		DETAILS W	/ITH WELD /IATION	-	VITH BOLT MATION		/UM END ARING
	JOIST SERIES	WELD SIZE	WELD LENGTH	BOLT DIAMETER	BOLT MATERIAL	STEEL	MASONRY
	К	1/8"	2"	1/2"	A307	2 1/2"	4"
	LH/DLH 02-06	3/16"	2"	3/4"	A307	2 1/2"	6"
	LH/DLH 07-17	1/4"	2"	3/4"	A307	4"	6"
	LH/DLH 18-25	1/4"	4"	3/4"	A325	6"	6"

4



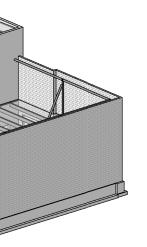
ACCEPTABLE ALTERNATES FOR'S OPTION

D HEAD DYNABOLT SLEEVE SIMPSON WEDGE-ALL WRED HEAD TRUBOLT+ TRONG BOLT

IST OF ASTM A193 GRADE B7 AL ADHESIVE. ADHESIVE DRAWINGS. ACCEPTABLE CONFIGURATION MATCHES THE PTABLE ALTERNATES ARE TO RDANCE WITH MANUFACTURER'S LUDE A SCREEN TUBE. THE

ALTERNATES FOR'S OPTION

W A7 ACRYLIC, SIMPSON SET , SIMPSON SET XP



1. 3D VIEW IS FOR REFERENCE ONLY - NOT FOR CONSTRUCTION. REFER TO PLANS, DETAILS AND SPECIFICATIONS FOR ACTUAL CONSTRUCTION

	STRUCTURAL	DRAWING SYMBOLS	
	MASONRY HATCHING		BEAM SPLICE
	STEEL HATCHING		 BEAM SIZE NUMBER OF SHEAR STUDS PER FOOT AMOUNT OF BEAM CAMBER
	MISCELLANEOUS HATCH	##x## [#] c= x"^* (+ X' - X")	
	CONCRETE HATCHING		— BEAM TO COLUMN MOMENT (FULLY RESTRAINED) CONNECTION - REFER TO DETAIL
	EARTH HATCHING		BEAM THROUGH BEAM MOMENT (FULLY RESTRAINED) CONNECTION - REFER TO DETAIL
CENTERLINE OR GRID	HIDDEN		
	PLAN OR DETAIL NUMBER PLAN OR DETAIL NAME		BEAM BEARING ON WALL - REFER TO DETAIL FOR BEAM POCKET CONDITION
View N 1/8" = 1'-0"	SCALE OF PLAN OR DETAIL		
	DETAIL REFERRED TO BY SECTION CUT	I H	—— INDICATES COLUMN BEARING ON CONCRETE FOUNDATION WALL, GRADE BEAM, OR PIER
S1	SHEET DETAIL IS LOCATED ON		
1	REVISION TRIANGLE - NUMBER INDICATES REVISION NUMBER ELEVATION MARK		— INDICATES COLUMN FRAMING ATOP BEAM - REFER TO DETAIL
	INDICATES CHANGE OF SLAB ELEVATION		INDICATES COLUMN FRAMING TO UNDERSIDE OF BEAM - REFER TO DETAIL
*********************************	COLUMN DESIGNATION BASE PLATE MARK	OPEN	FLOOR SLAB OR ROOF DECK OPENING
SF#(+ X' - X") P# (+ X' - X")	FOOTING MARK (TOP ELEVATION) PIER MARK (TOP ELEVATION)		
			FLOOR AND/OR ROOF DECK ORIENTATION (DIRECTION OF SPAN)
	UPPER ELEVATION INDICATES STEP IN T/CONTINUOUS FOOTING	-	EXTENTS. DECK SHALL TERMINATE AT THE EDGE OF SLAB SHOWN ON THE DRAWINGS UNLESS NOTED OTHERWIS

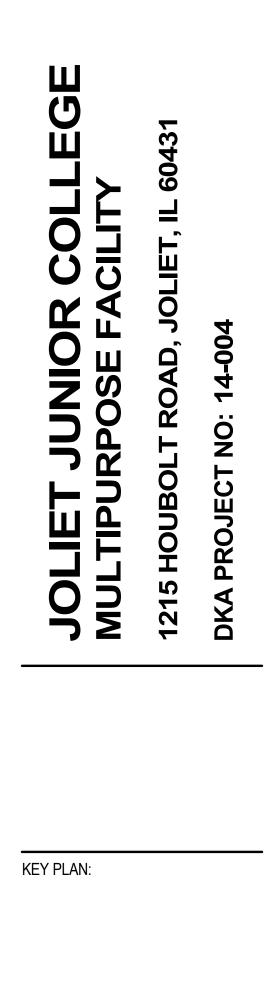
	STRUCTURAL ABI	BREVIAT	IONS LIST
#	NUMBER	KSF	KIPS PER SQUARE FOOT
@	AT	L	LENGTH
0	DEGREES	LB	POUND
Ø	DIAMETER	LF	LINEAR FOOT
AHU	AIR-HANDLING UNIT	LL	LIVE LOAD
	APPROXIMATE, -LY	LLH	LONG LEG HORIZONTAL
ARCH	ARCHITECT, -URE, -URAL	LLV	LONG LEG VERTICAL
B/	BOTTOM OF	LSH	LONG SIDE HORIZONTAL
bf	BEAM FLANGE WIDTH	LSV	LONG SIDE VERTICAL
BM	BEAM	LONG	LONGITUDINAL
BP	BASE PLATE	M/E	MECHANICAL/ELECTRICAL
BRG	BEARING	MAX	MAXIMUM
CFSF	COLD FORM STEEL FRAMING	MECH	MECHANICAL
CJ	CONTROL JOINT	MEZZ	MEZZANINE
CL CMU	CLEAR	MIN	
CONC	CONCRETE MASONRY UNIT	MISC	MISCELLANEOUS
CONST	CONCRETE CONSTRUCTION	MK	MARK
CONST	CONTINUOUS	N	
D	DEPTH	N	LENGTH (AS PLATES)
DBL	DOUBLE	NIC NO	NOT IN CONTRACT
DEG	DEGREE	NU	
DIM	DIMENSION	OC	NOT TO SCALE ON CENTER
DL	DEAD LOAD	OPNG	OPENING
DTL	DETAIL	OPP	OPPOSITE
DWG	DRAWING	PAF	POWER ACTUATED FASTENER
EA	EACH	PC	PRECAST
EF	EACH FACE	PCF	POUNDS PER CUBIC FOOT
EJ	EXPANSION JOINT	PL	PLATE
EL	ELEVATION	PSF	POUNDS PER SQUARE FOOT
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH
EMBED	EMBEDDED	PVC	POLYVINYL CHLORIDE
EOD	EDGE OF DECK	R	RADIUS
EOS	EDGE OF SLAB	RD	ROOF DRAIN
ĒQ	EQUAL	REINF	REINFORCING, -MENT, -ED
EQUIP	EQUIPMENT	REQ'D	REQUIRED
EW	EACH WAY	REF	REFERENCE, REFER TO
EXIST. (E)) EXISTING	RTU	ROOF-TOP UNIT
EXP	EXPANSION	SC	TC WITH CLASS A FAYING SURFACE
EXT	EXTERIOR	SCHED	SCHEDULE
f'c	CONCRETE COMPRESSIVE STRENGTH	SIM	SIMILAR
FDN	FOUNDATION	SL	SNOW LOAD
FIN	FINISHED	SP	SPACE(S)
FL	FLOOR	SPEC	SPECIFICATION(S)
FT	FOOT	SPEC'D	SPECIFIED
FTG	FOOTING	SQ	SQUARE
Fy	YIELD STRESS	STD	STANDARD
GA	GAGE OR GAUGE	STIFF	STIFFENER
GALV	GALVANIZED	Τ/	TOP OF
GB	GRADE BEAM	TC	PRE-TENSIONED BOLT
GC	GENERAL CONTRACTOR	TEMP	TEMPERATURE
GYP	GYPSUM	tf	BEAM FLANGE THICKNESS
HDG	HOT-DIPPED GALVANIZED	TRANS	TRANSVERSE
HORIZ		TYP	TYPICAL
HVAC	HEATING, VENTILATION, AIR CONDITIONING	UNO	UNLESS NOTED OTHERWISE
HWS	HEADED, WELDED STUD	VERT	VERTICAL
IN	INCH	VIF	VERIFY IN FIELD
INT	INTERIOR	VWA	VERIFY WITH ARCHITECTURAL DRAWINGS
JST	JOIST	WP	WORKING POINT
JT		WT	WEIGHT
K, KIP	KILOPOUND (1,000 POUNDS)	WWR	WELDED WIRE REINFORCING
KO	KNOCK-OUT	YD	YARD



ARCHITECT OF RECORD DEMONICA KEMPER ARCHITECTS 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000

STRUCTURAL AND MEP/FP ENGINEERING KJWW ENGINEERING CONSULTANTS 1100 WARRENVILLE RD. SUITE 400W NAPERVILLE, IL 60563 P: 630.527.2320

CIVIL ENGINEERING RUETTIGER, TONELLI & ASSOC., INC. 2174 ONEDA ST. **JOLIET, IL 60435** P: 815.744.6600



SHEET TITLE: **GENERAL NOTES** SHEET NUMBER:

SHEET STATUS:

BID PACKAGE 1

ISSUED FOR BID

DESCRIPTION:

06/01/15

DATE:

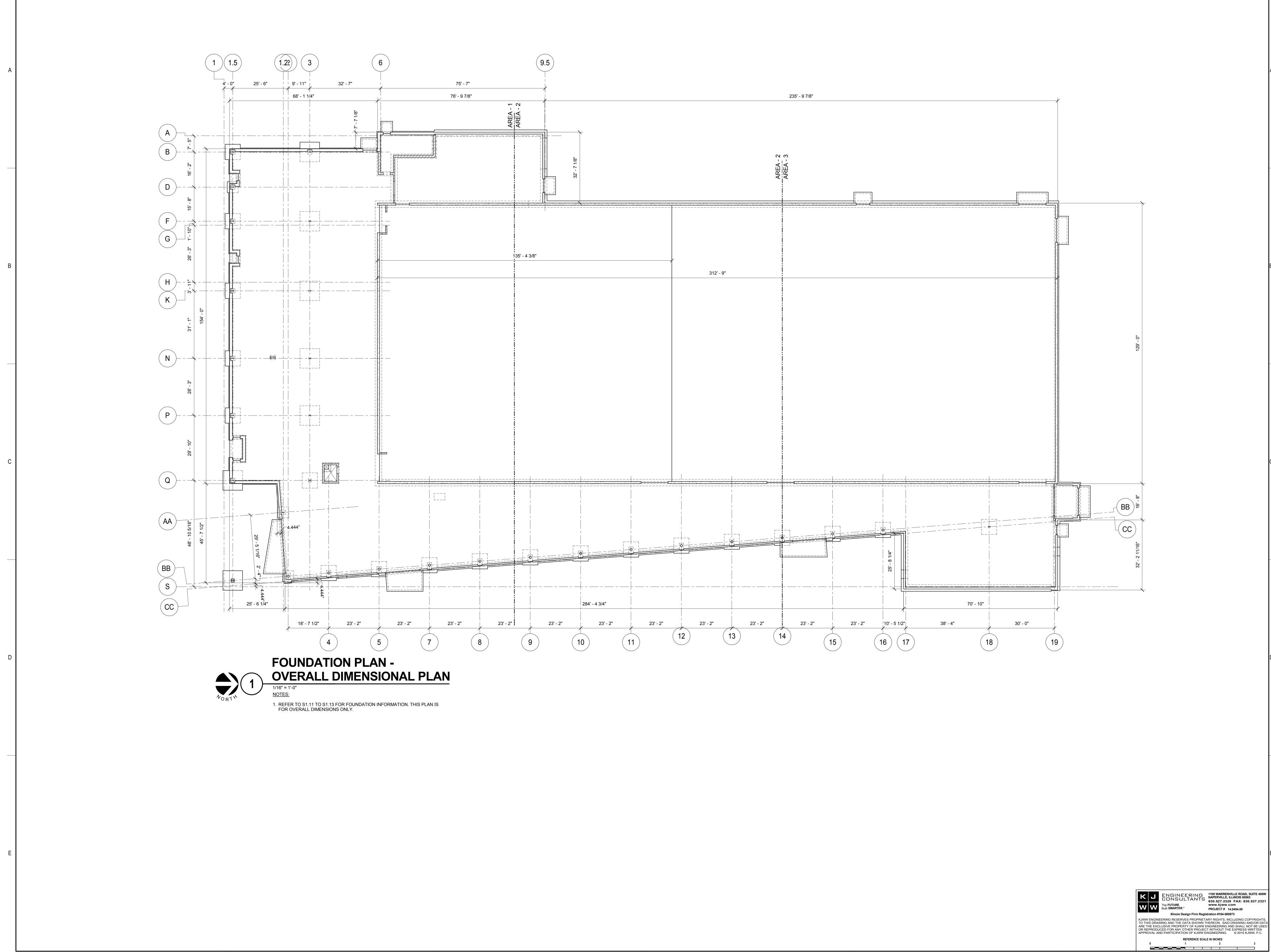
ENGINEERING SONSULTANTS 1100 WARRENVILLE ROAD, SUITE 400W NAPERVILLE, ILLINOIS 60563 630.527.2320 FAX: 630.527.2321 www.kjww.com PROJECT # 14.0454.00 Illinois Design Firm Registration #184-000973 KJWW ENGINEERING RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHT TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR D/ ARE THE EXCLUSIVE PROPERTY OF KJWW ENGINEERING AND SHALL NOT BE USE OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF KJWW ENGINEERING. © 2015 KJWW, P.C.

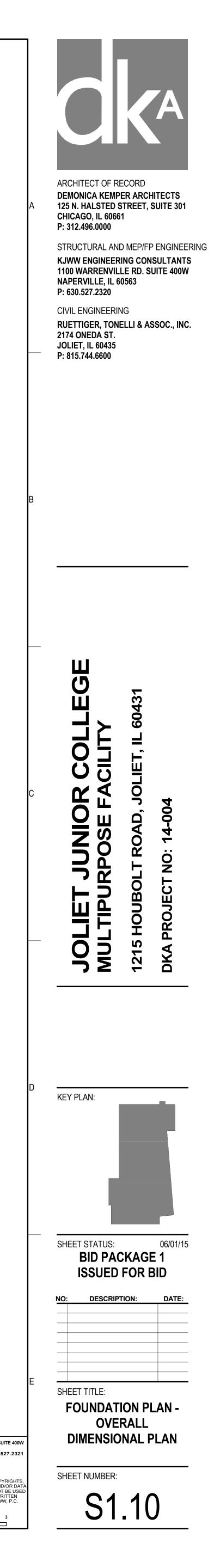
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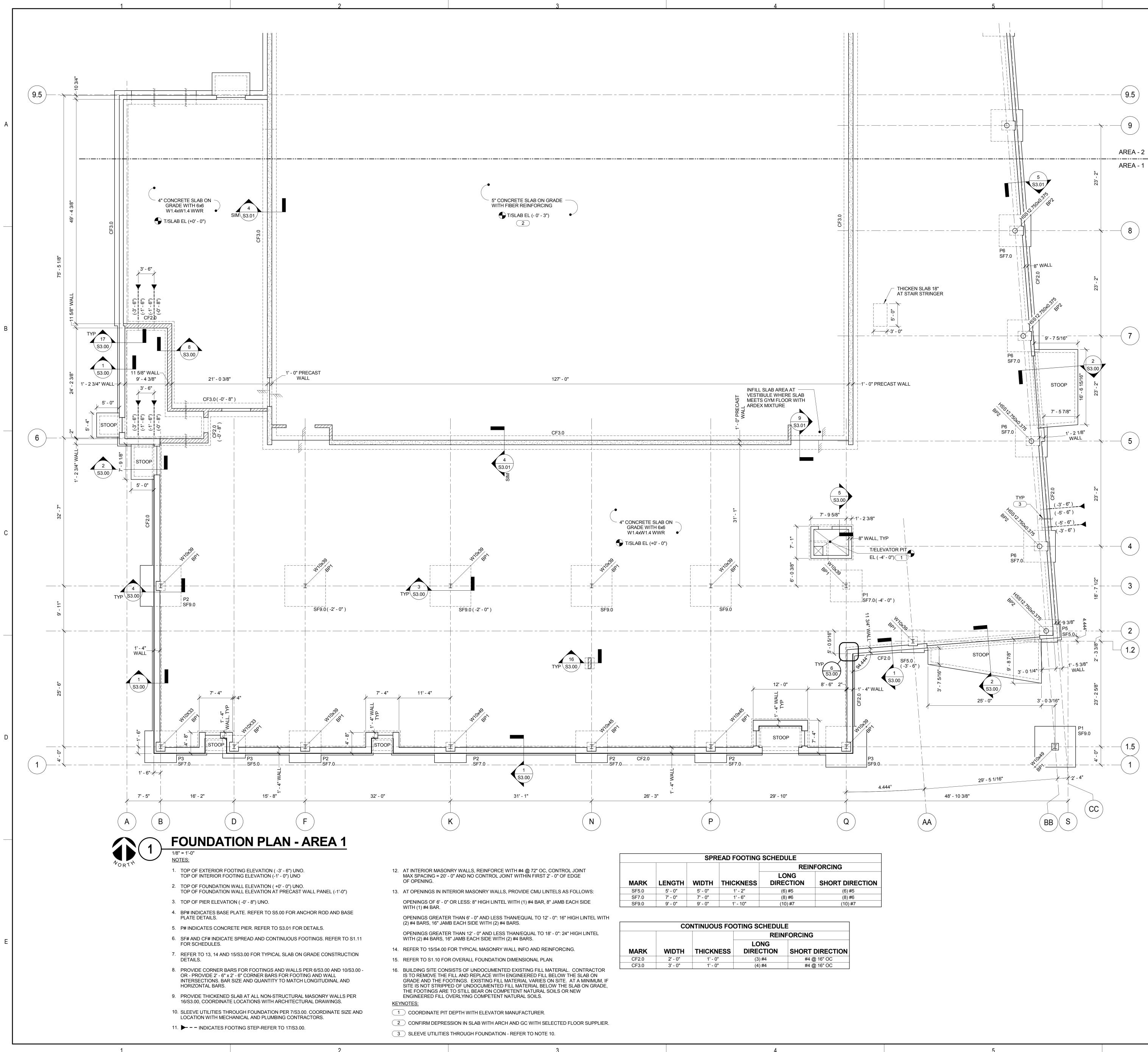
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REFERENCE SCALE IN INCHES

^{5.} DESIGN JOIST SEAT FOR 1650 LB ROLLOVER LOAD, UNLESS NOTED OTHERWISE.



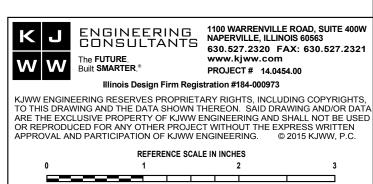


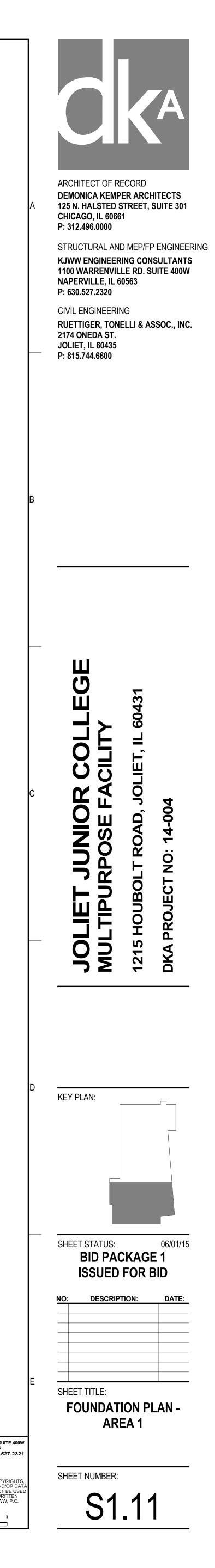


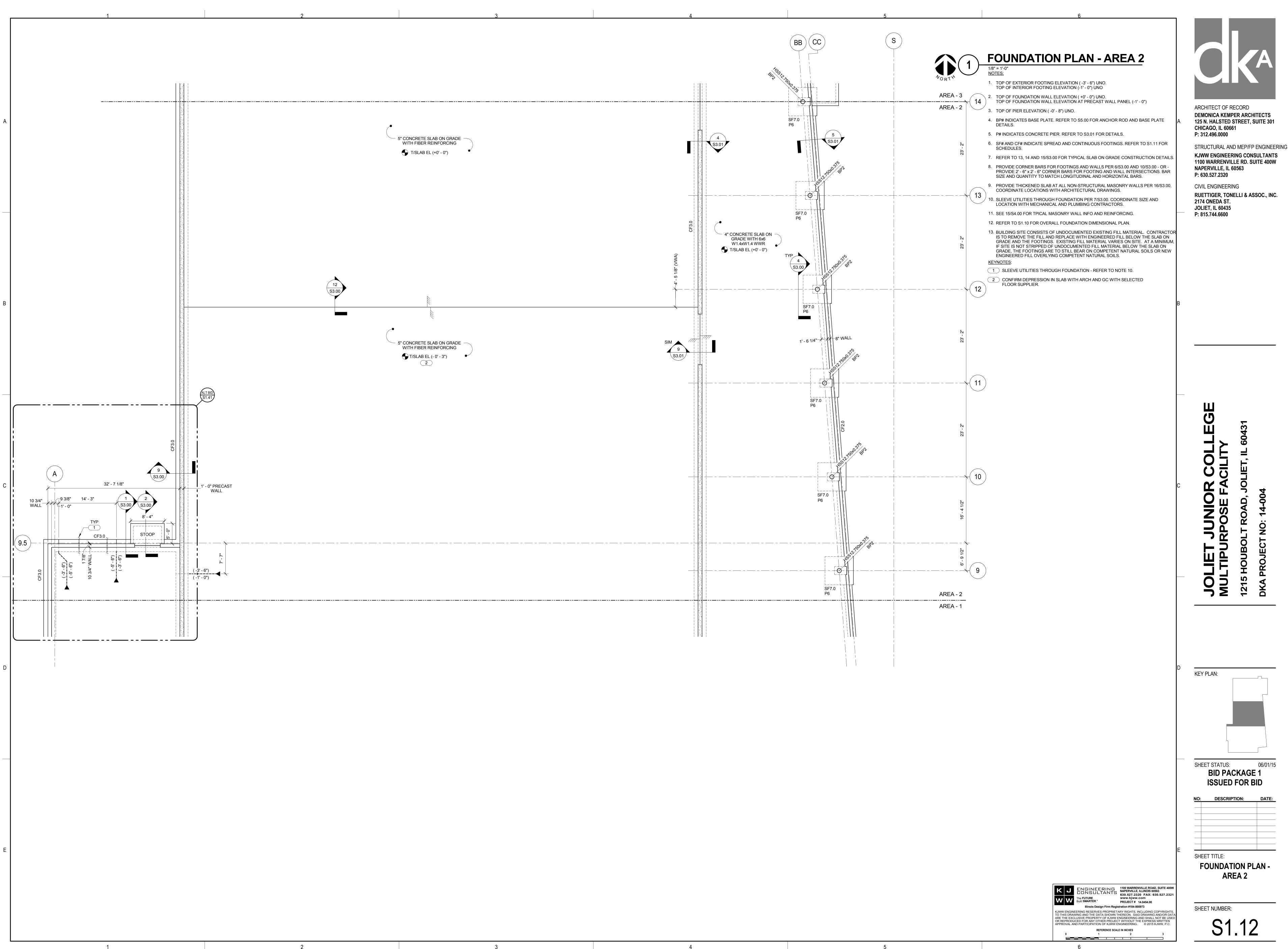


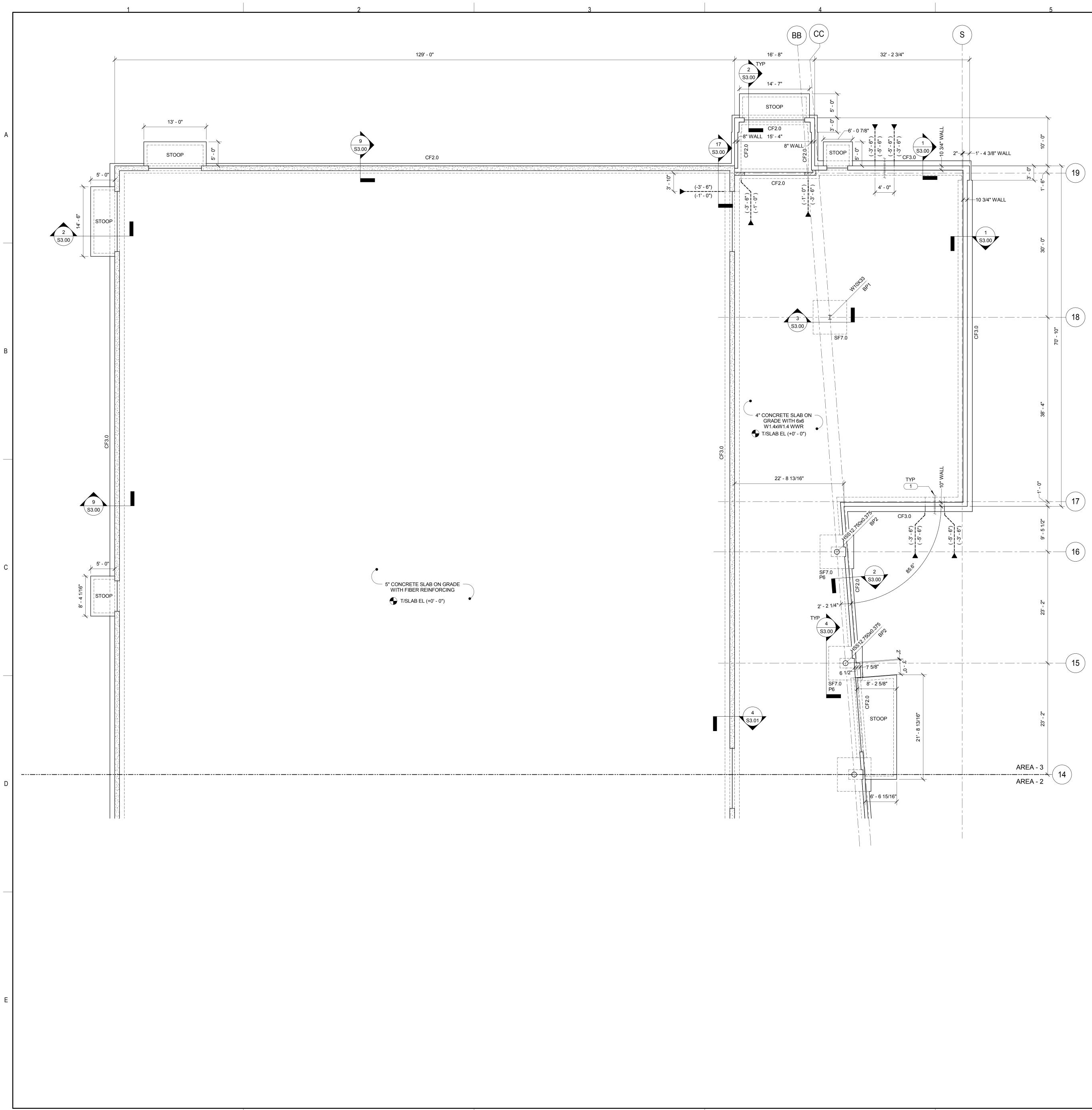
		SPR	EAD FOOTING	SCHEDULE	
				REIN	NFORCI
MARK	LENGTH	WIDTH	THICKNESS	LONG DIRECTION	SHO
SF5.0	5' - 0"	5' - 0"	1' - 2"	(6) #5	
SF7.0	7' - 0"	7' - 0"	1' - 6"	(8) #6	
SF9.0	9' - 0"	9' - 0"	1' - 10"	(10) #7	
-9.0	9 - 0"	9 - 0"	I - 10 ^m	(10)#/	

	CO	NTINUOUS FOC	TING SCHEDUL	E
			REIN	FORCING
MARK	WIDTH	THICKNESS	LONG DIRECTION	SHORT DIRECT
CF2.0	2' - 0"	1' - 0"	(3) #4	#4 @ 16" OC
CF3.0	3' - 0"	1' - 0"	(4) #4	#4 @ 16" OC









2

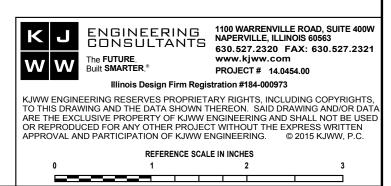
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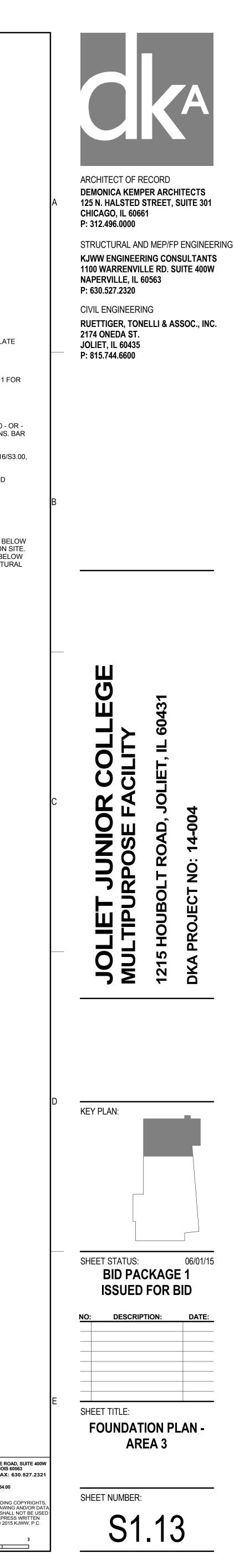
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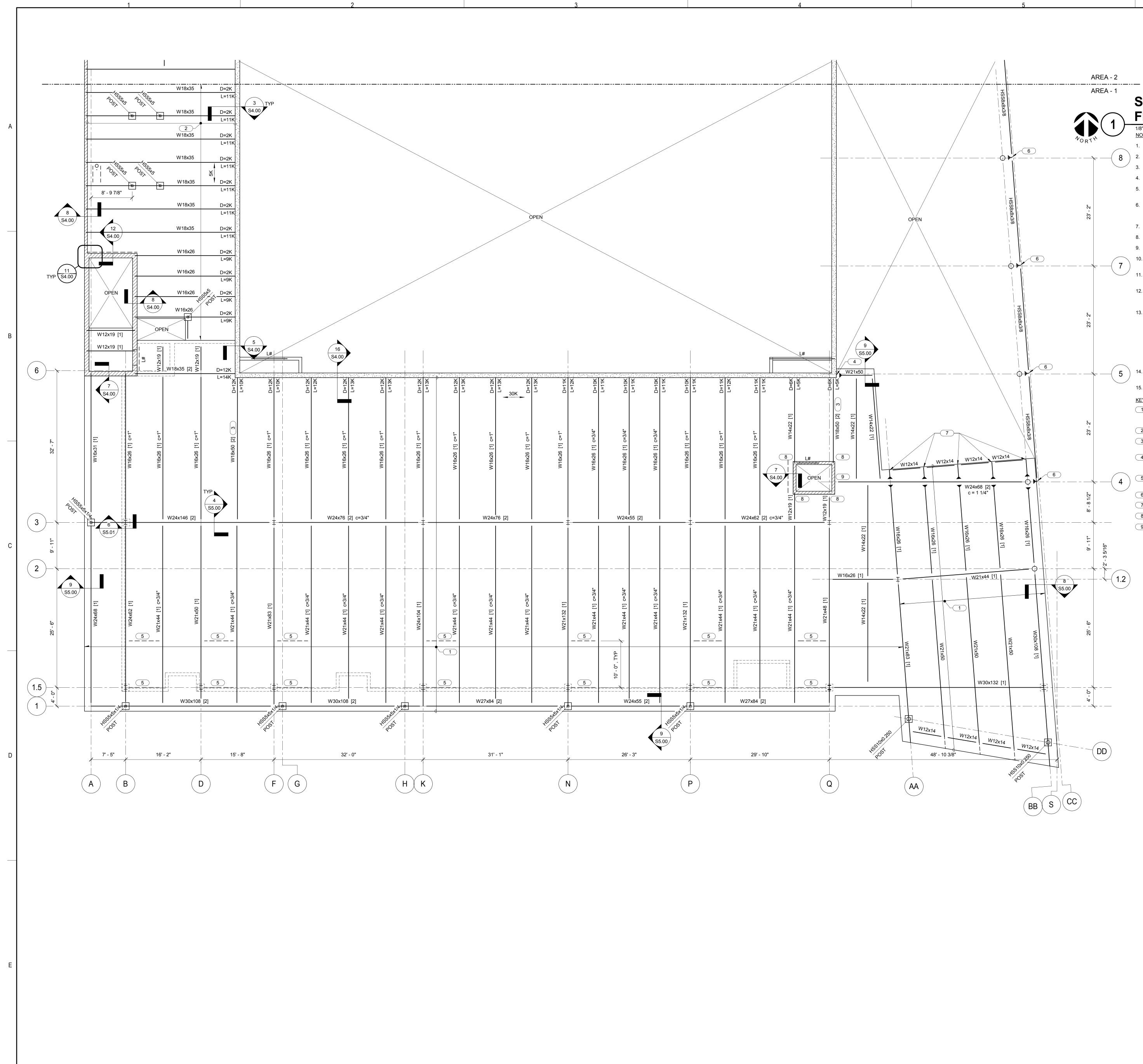
FOUNDATION PLAN - AREA 3 . (1) 1/8" = 1'-0"

NOTES:

- TOP OF EXTERIOR FOOTING ELEVATION (-3' 6") UNO. TOP OF INTERIOR FOOTING ELEVATION (-1' 0") UNO
- TOP OF FOUNDATION WALL ELEVATION (+0' 0") UNO. TOP OF FOUNDATION WALL ELEVATION AT PRECAST WALL PANEL (-1'-0")
- 3. TOP OF PIER ELEVATION (-0' 8") UNO.
- 4. BP# INDICATES BASE PLATE. REFER TO S5.00 FOR ANCHOR ROD AND BASE PLATE DETAILS.
- 5. P# INDICATES CONCRETE PIER. REFER TO S3.01 FOR DETAILS.
- SF# AND CF# INDICATE SPREAD AND CONTINUOUS FOOTINGS. REFER TO S1.11 FOR SCHEDULES.
- 7. REFER TO 13, 14 AND 15/S3.00 FOR TYPICAL SLAB ON GRADE CONSTRUCTION DETAILS.
- 8. PROVIDE CORNER BARS FOR FOOTINGS AND WALLS PER 6/S3.00 AND 10/S3.00 OR -PROVIDE 2' - 6" x 2' - 6" CORNER BARS FOR FOOTING AND WALL INTERSECTIONS. BAR SIZE AND QUANTITY TO MATCH LONGITUDINAL AND HORIZONTAL BARS.
- 9. PROVIDE THICKENED SLAB AT ALL NON-STRUCTURAL MASONRY WALLS PER 16/S3.00, COORDINATE LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- 10. SLEEVE UTILITIES THROUGH FOUNDATION PER 7/S3.00. COORDINATE SIZE AND LOCATION WITH MECHANICAL AND PLUMBING CONTRACTORS.
- 11. SEE 15/S4.00 FOR TYPICAL MASONRY WALL INFO AND REINFORCING.
- 12. REFER TO \$1.10 FOR OVERALL FOUNDATION DIMENSIONAL PLAN.
- 13. BUILDING SITE CONSISTS OF UNDOCUMENTED EXISTING FILL MATERIAL. CONTRACTOR IS TO REMOVE THE FILL AND REPLACE WITH ENGINEERED FILL BELOW THE SLAB ON GRADE AND THE FOOTINGS. EXISTING FILL MATERIAL VARIES ON SITE. AT A MINIMUM, IF SITE IS NOT STRIPPED OF UNDOCUMENTED FILL MATERIAL BELOW THE SLAB ON GRADE, THE FOOTINGS ARE TO STILL BEAR ON COMPETENT NATURAL SOILS OR NEW ENGINEERED FILL OVERLYING COMPETENT NATURAL SOILS. KEYNOTES:
- (1) SLEEVE UTILITIES THROUGH FOUNDATION REFER TO NOTE 10.







4

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2

SECOND FLOOR FRAMING PLAN - AREA 1

- 1. TOP OF STEEL ELEVATION (+13' 5 1/2"), UNO.
- 2. REFER TO 1, 2, AND 3/S5.01 FOR TYPICAL SHEAR CONNECTION.
- 3. REFER TO 4, 5, AND 6/S5.00 FOR COMPOSITE SLAB CONSTRUCTION DETAILS. 4. REFER TO #/S### FOR DECK FASTENING REQUIREMENTS.
- 5. [#] INDICATES NUMBER OF 3/4"Ø x 0' 5" HEADED WELDED STUDS PER FOOT OF BEAM LENGTH.
- 6. L# INDICATES LINTEL IN STRUCTURAL MASONRY WALL REFER TO S4.00 FOR SCHEDULE. ML# INDICATES MECHANICAL OPENING IN MASONRY WALL - REFER TO S4.00 FOR SCHEDULE.
- 7. PROVIDE BRACING OF NON-STRUCTURAL MASONRY PARTITION PER 13 AND 14/S4.00.
- 8. PROVIDE ANGLE FRAMING AROUND OPENING PER 10/S5.00. 9. (MW#) INDICATES MASONRY WALL. REFER TO S### FOR SCHEDULE.
- 10. PRECAST WALL PANELS ARE TO BE DESIGNED AS SHEAR WALLS. REFER TO PLAN FOR LATERAL REACTION. 11. HEAM THROUGH BEAM MOMENT CONNECTION - REFER TO 4/S5.01 FOR DETAIL.
- 12. AT INTERIOR MASONRY WALLS, REINFORCE WITH #4 @ 72" OC, CONTROL JOINT MAX SPACING = 20' - 0" AND NO CONTROL JOINT WITHIN FIRST 2' - 0" OF EDGE OF OPENING.
- 13. AT OPENINGS IN INTERIOR MASONRY WALLS, PROVIDE CMU LINTELS AS FOLLOWS: OPENINGS OF 6' - 0" OR LESS: 8" HIGH LINTEL WITH (1) #4 BAR, 8" JAMB EACH SIDE WITH (1) #4 BAR. OPENINGS GREATER THAN 6' - 0" AND LESS THAN/EQUAL TO 12' - 0": 16" HIGH LINTEL WITH (2) #4 BARS, 16" JAMB EACH SIDE WITH (2) #4 BARS.
- OPENINGS GREATER THAN 12' 0" AND LESS THAN/EQUAL TO 18' 0": 24" HIGH LINTEL WITH (2) #4 BARS, 16" JAMB EACH SIDE WITH (2) #4 BARS.
- 5 14. XXK INDICATES LATERAL LOAD APPLIED TO PC WALL PANEL OVER FULL LENGTH OF DIAPHRAGM CONNECTION TO WALL. LOAD IS SERVICE LEVEL WIND LOAD. 15. D=XX K, L=XX K INDICATES SERVICE LEVEL BEAM AND JOIST DOWNWARD REACTIONS ON PRECAST WALL PANEL.
 - KEYNOTES: 1 4 1/2" NORMAL WEIGHT CONCRETE SLAB ON 2" (18 GA) COMPOSITE STEEL DECK WITH 6x6 - W2.9xW2.9 WWR (TOTAL THICKNESS = 6 1/2"). T/SLAB ELEVATION (+ 14' - 0").
 - 2 1 1/2" (20 GA) STEEL ROOF DECK. DECK BEARING EL(+13'-5 1/2").
 - 3 BEAM IS A COLLECTOR-PRECASTER TO DESIGN CONNECTION FOR SHEAR REACTION SHOWN ON PLAN PLUS 36KIPS SERVICE WIND AXIAL LOAD.
 - 4 BEAM IS MOMENT CONNECTED TO PRECAST PANEL. PRECAST SUPPLIER TO DESIGN PANEL FOR MD = 56 KIP*FEET, ML = 48 KIP*FEET AND VD = 10.2 K, VL = 8.7 K.
 - 5 L3x3x1/4 FROM BOTTOM FLANGE OF CANTILEVERED BEAM TO TOP FLANGE OF ADJACENT BEAM. REFER TO X/S5.01. 6 HSS8x8x3/8.
 - **7** W12.
 - 8 MASONRY BEARING PLATE, 3/8"x5"x0'-8", REF DETAIL 8/S4.00.
 - 9 MASONRY BEARING PLATE, 3/8"x7"x0'-10", REF DETAIL 8/S4.00.

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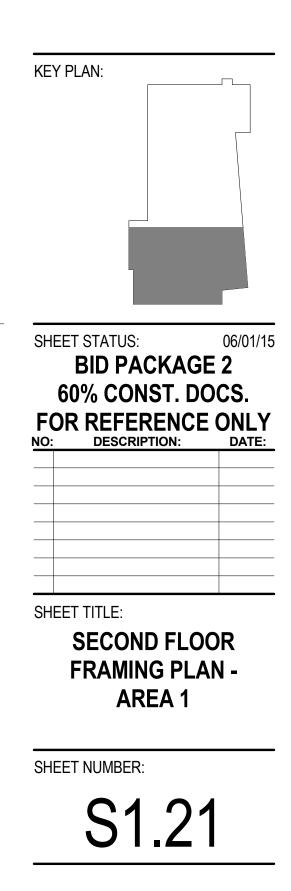


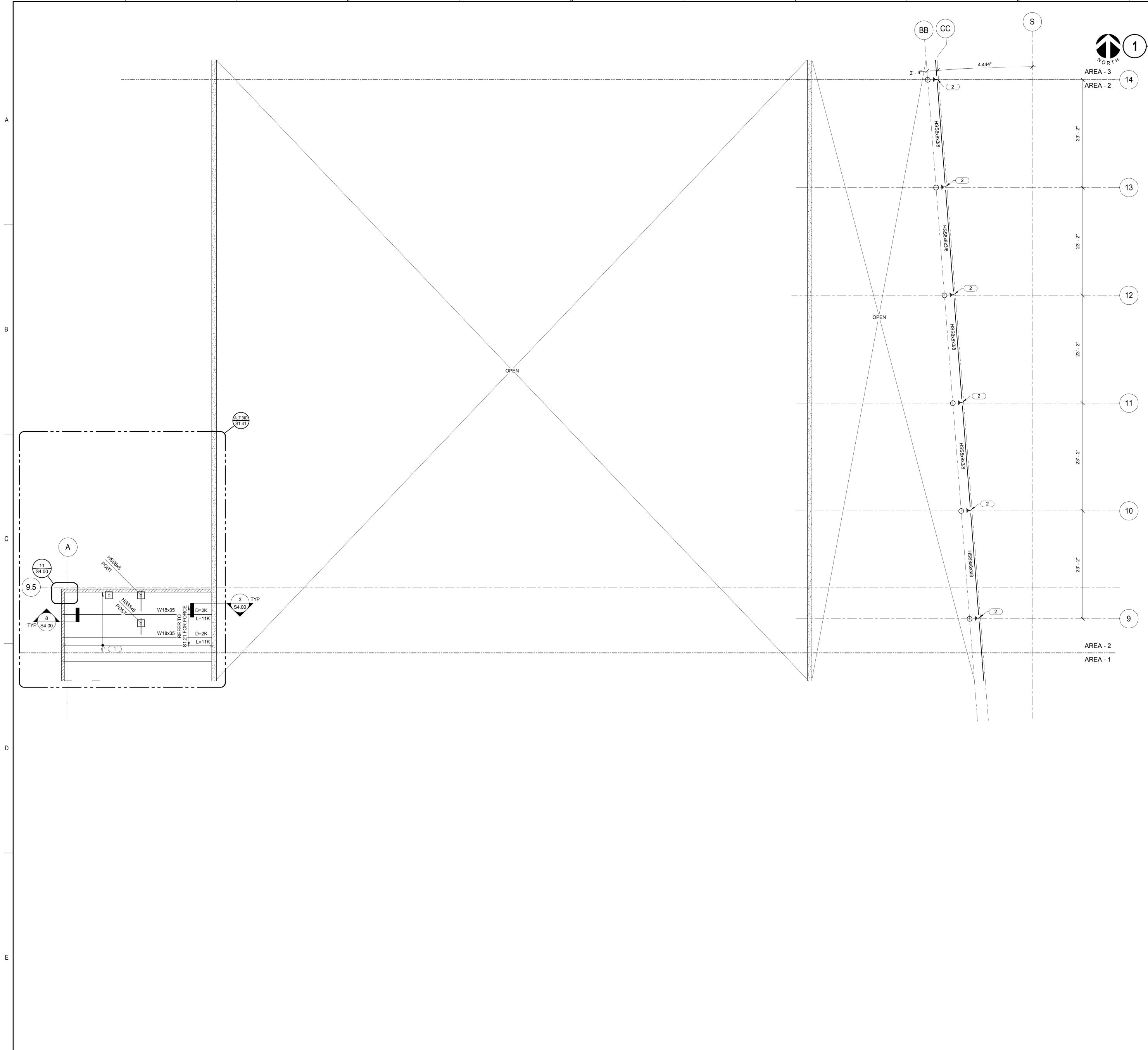
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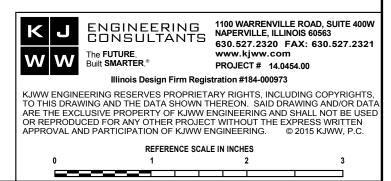
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SECOND FLOOR FRAMING PLAN - AREA 2

NOTES:

- 1. TOP OF STEEL ELEVATION (+13' 5 1/2"), UNO.
- 2. REFER TO 1, 2, AND 3/5.01 FOR TYPICAL SHEAR CONNECTION.
- 3. REFER TO 4, 5, AND 6/S5.00 FOR COMPOSITE SLAB CONSTRUCTION DETAILS.
- [#] INDICATES NUMBER OF 3/4"Ø x 0' 5" HEADED WELDED STUDS PER FOOT OF BEAM LENGTH.
- 5. PROVIDE BRACING OF NON STRUCTURAL MASONRY PARTITION PER 13 & 14/S4.00.
- 6. PROVIDE ANGLE FRAMING AROUND OPENING PER 10/S5.00.
- 7. PRECAST WALL PANELS ARE TO BE DESIGNED AS SHEAR WALLS. REFER TO PLAN FOR LATERAL REACTION.
- AT INTERIOR MASONRY WALLS, REINFORCE WITH #4 @ 72" OC, CONTROL JOINT MAX SPACING = 20' 0" AND NO CONTROL JOINT WITHIN FIRST 2' 0" OF EDGE OF OPENING. 10. AT OPENINGS IN INTERIOR MASONRY WALLS, PROVIDE CMU LINTELS AS
- FOLLOWS: OPENINGS OF 6' - 0" OR LESS: 8" HIGH LINTEL WITH (1) #4 BAR, 8" JAMB EACH SIDE WITH (1) #4 BAR.
- OPENINGS GREATER THAN 6' 0" AND LESS THAN/EQUAL TO 12' 0": 16" HIGH LINTEL WITH (2) #4 BARS, 16" JAMB EACH SIDE WITH (2) #4 BARS. OPENINGS GREATER THAN 12' - 0" AND LESS THAN/EQUAL TO 18' - 0": 24" HIGH LINTEL WITH (2) #4 BARS, 16" JAMB EACH SIDE WITH (2) #4 BARS.
- 11. XXK INDICATES LATERAL LOAD APPLIED TO PC WALL PANEL OVER FULL LENGTH OF DIAPHRAGM CONNECTION TO WALL. LOAD IS SERVICE LEVEL WIND LOAD.
- D=XXK, L=XXK INDICATES SERVICE LEVEL BEAM AND JOIST DOWNWARD REACTIONS ON PC WALL PANEL. KEYNOTES:
- 1 1/2" (20 GA) STEEL ROOF DECK. DECK BEARING EL (+ 13' 5 1/2"). 2 HSS8x8x3/8.



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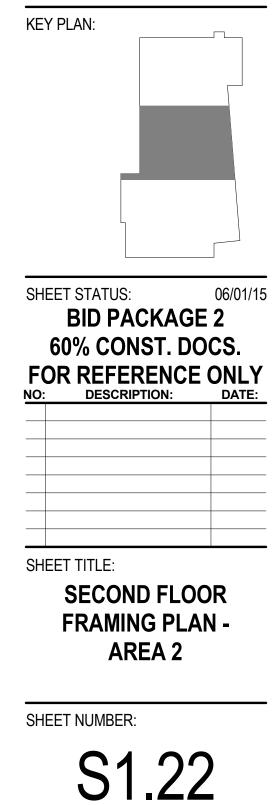


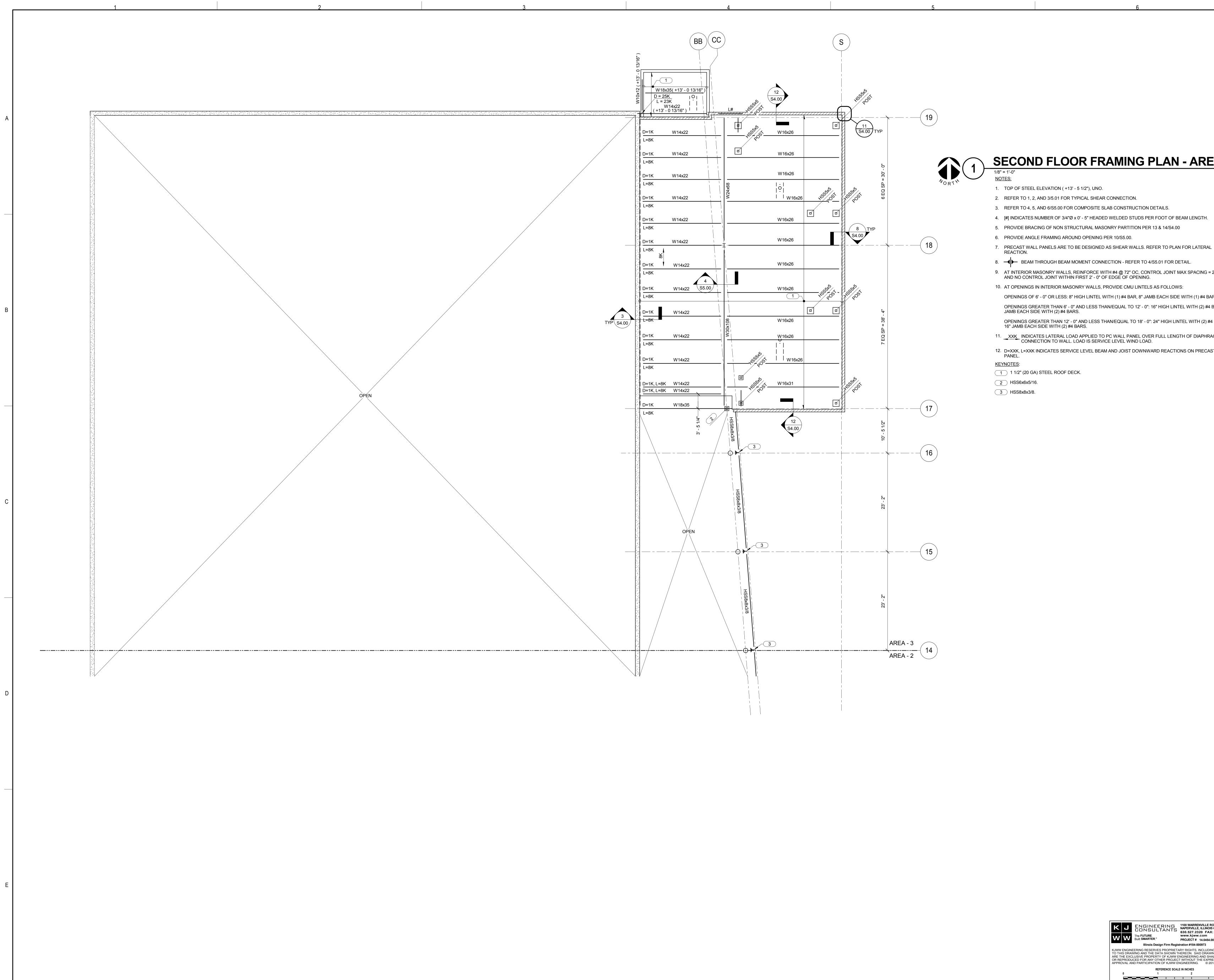
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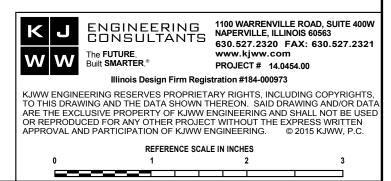
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SECOND FLOOR FRAMING PLAN - AREA 3

- 2. REFER TO 1, 2, AND 3/5.01 FOR TYPICAL SHEAR CONNECTION.
- 3. REFER TO 4, 5, AND 6/S5.00 FOR COMPOSITE SLAB CONSTRUCTION DETAILS.
- 4. [#] INDICATES NUMBER OF 3/4"Ø x 0' 5" HEADED WELDED STUDS PER FOOT OF BEAM LENGTH.
- 5. PROVIDE BRACING OF NON STRUCTURAL MASONRY PARTITION PER 13 & 14/S4.00
- 6. PROVIDE ANGLE FRAMING AROUND OPENING PER 10/S5.00.

- 9. AT INTERIOR MASONRY WALLS, REINFORCE WITH #4 @ 72" OC, CONTROL JOINT MAX SPACING = 20' 0" AND NO CONTROL JOINT WITHIN FIRST 2' - 0" OF EDGE OF OPENING.
- 10. AT OPENINGS IN INTERIOR MASONRY WALLS, PROVIDE CMU LINTELS AS FOLLOWS: OPENINGS OF 6' - 0" OR LESS: 8" HIGH LINTEL WITH (1) #4 BAR, 8" JAMB EACH SIDE WITH (1) #4 BAR. OPENINGS GREATER THAN 6' - 0" AND LESS THAN/EQUAL TO 12' - 0": 16" HIGH LINTEL WITH (2) #4 BARS, 16" JAMB EACH SIDE WITH (2) #4 BARS. OPENINGS GREATER THAN 12' - 0" AND LESS THAN/EQUAL TO 18' - 0": 24" HIGH LINTEL WITH (2) #4 BARS, 16" JAMB EACH SIDE WITH (2) #4 BARS.
- 11. XXK INDICATES LATERAL LOAD APPLIED TO PC WALL PANEL OVER FULL LENGTH OF DIAPHRAGM CONNECTION TO WALL. LOAD IS SERVICE LEVEL WIND LOAD.
- 12. D=XXK, L=XXK INDICATES SERVICE LEVEL BEAM AND JOIST DOWNWARD REACTIONS ON PRECAST WALL

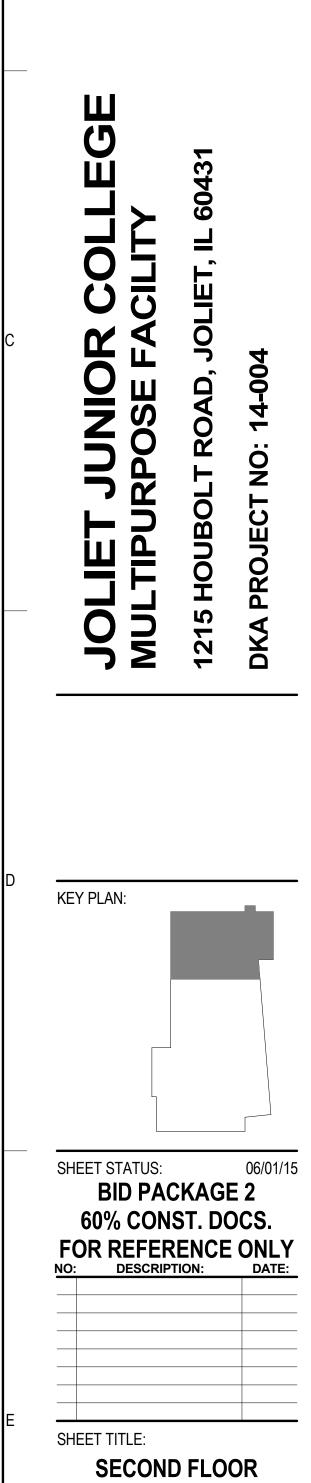




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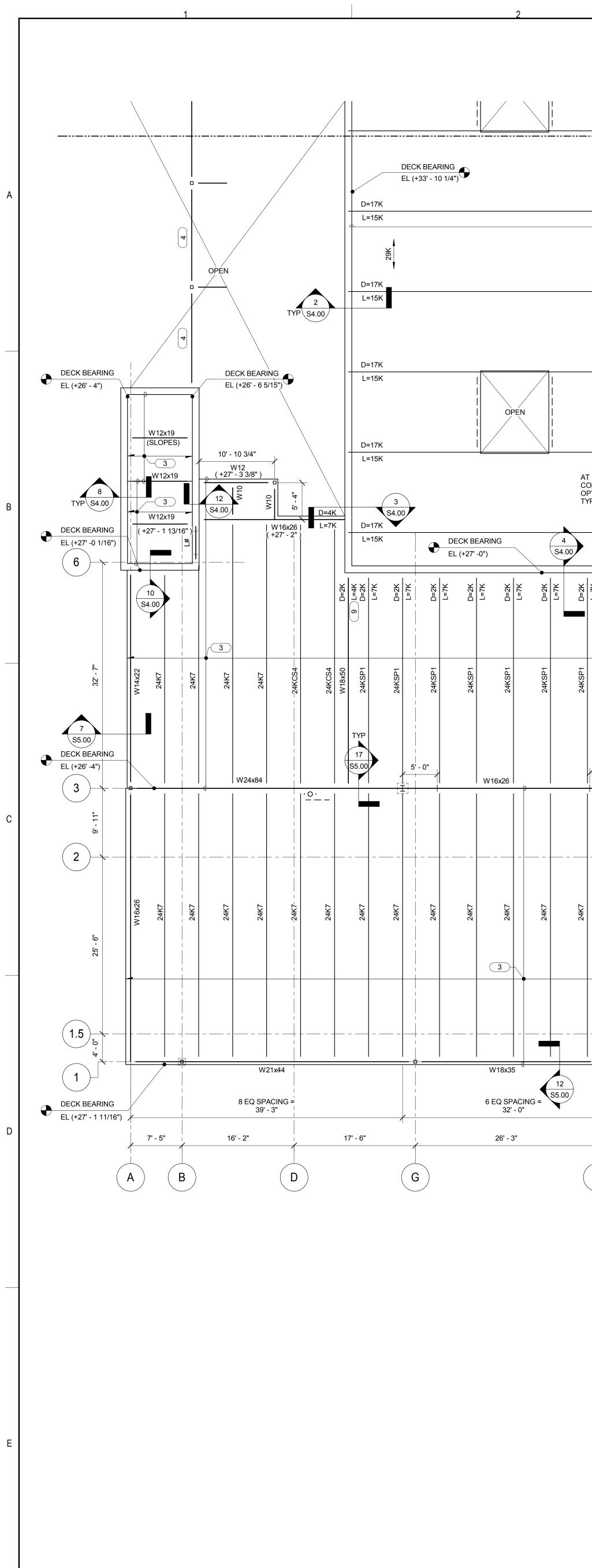


FRAMING PLAN -

S1.23

SHEET NUMBER:

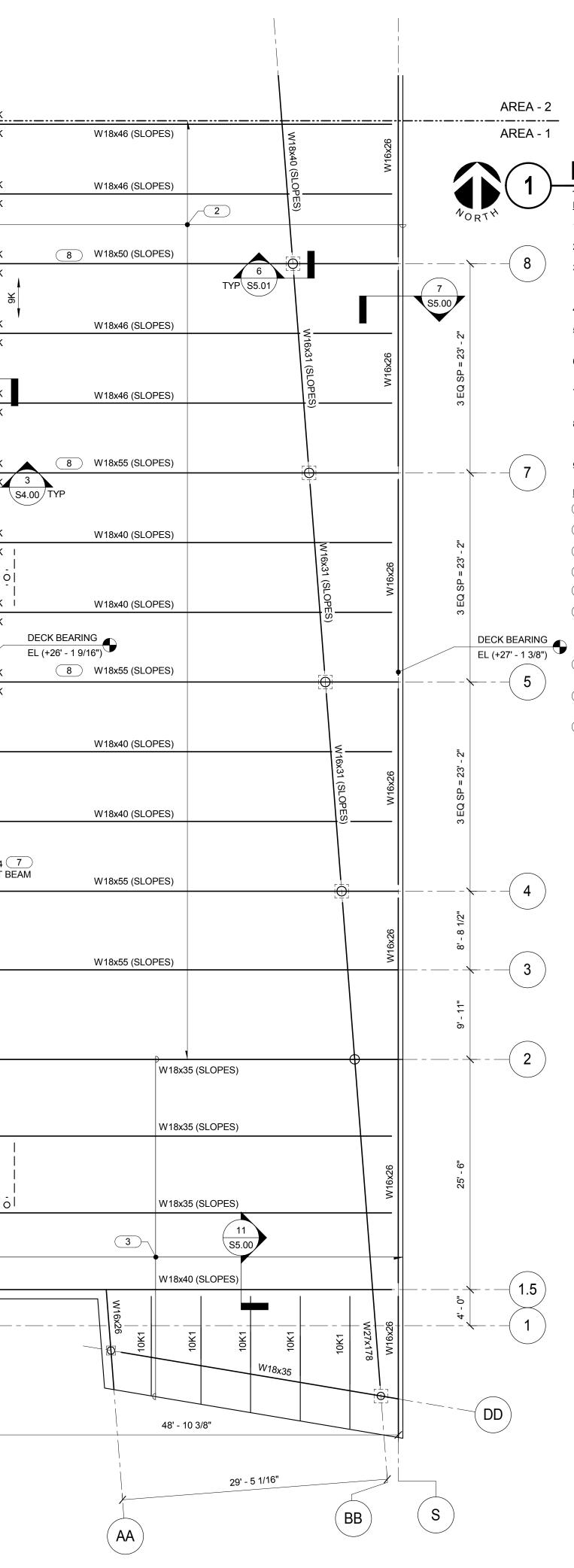
AREA 3



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							LHS	71													e		CK BE/ (+36' -		D=17K	D=4K
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							LHS											OF	ΡΈΝ						S4.00 D=17K L=12K D=17K	D=4K
AT CON OPT TYP	TR ION 2 S4.00 1 S4.00	•				73K	LHS													'					D=17K L=12K L=12K	D=4K L=7K I _ 0 0 1 D=4K I L=7K
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24KSP1			24KSP1	24KSP1	24KSP1		W18x50	24KSP1	24KSP1	24KSP1	24KSP1		24KSP1		24KSP1	24KSP1		24KSP1	24KSP1		24KSP1		24KSP1			W8x24 (HOIST BE
 	5' - 0"			<u>'0'_</u>	11 \$5.00	W18x4			-	5' - 0"		 W16	6x26			5' - 0"		2'		 W18	3x40			W10x12	W10×12	
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)					W18x40 6 EQ SP 31'	ACING = - 1"				14	5	EQ SP	(18x35 PACING - 3") =		e	1			6 EC	W18 SPA 29' - 1	CING				
	-	1			35' - 0"							26'	- 3"			F					29' - 1	10"				

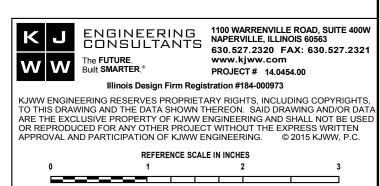
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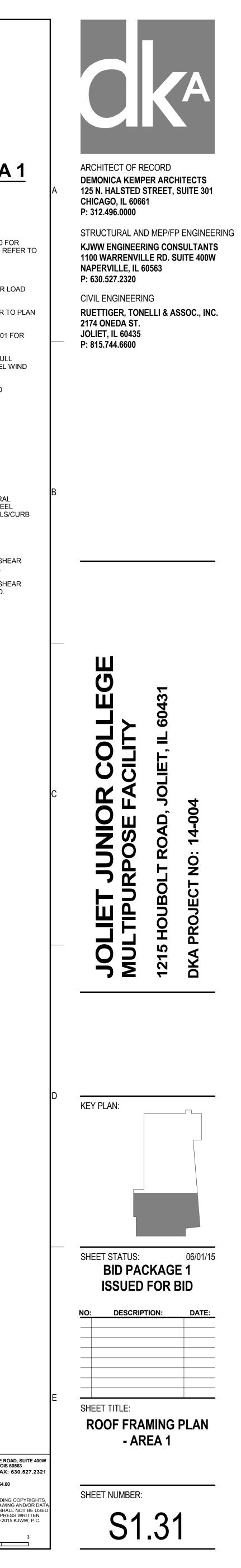


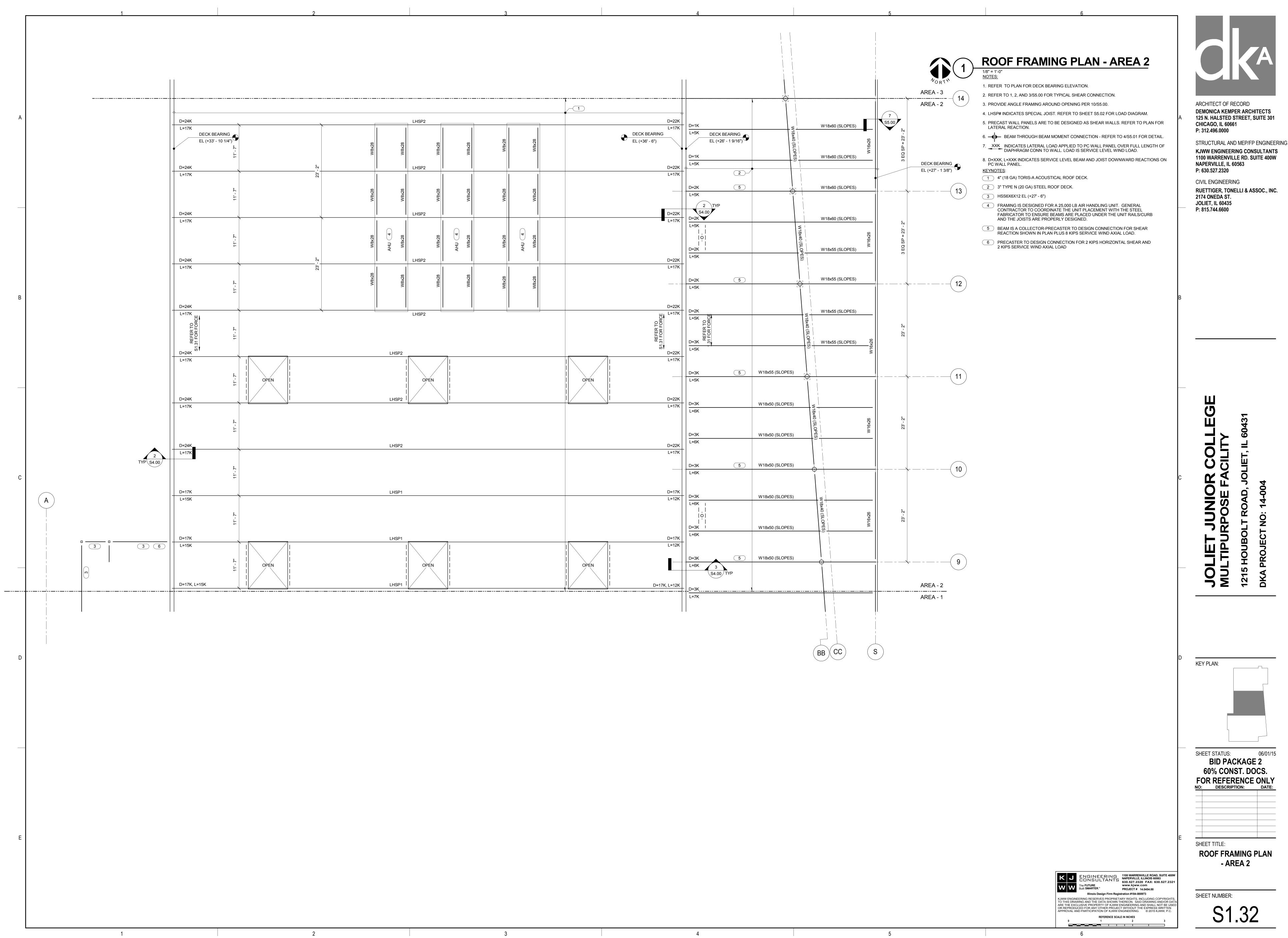
ROOF FRAMING PLAN - AREA 1

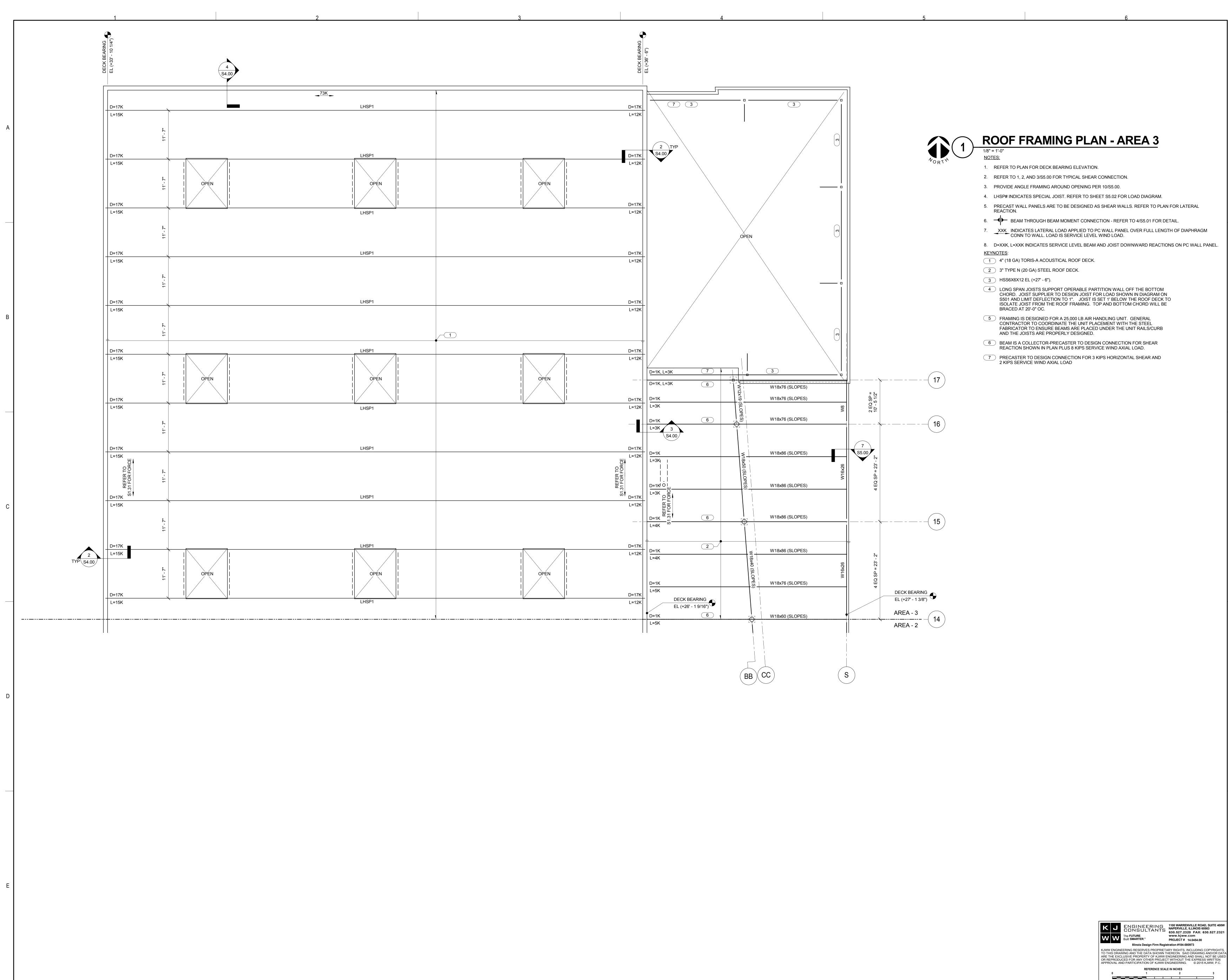
1/8" = 1'-0" <u>NOTES:</u>

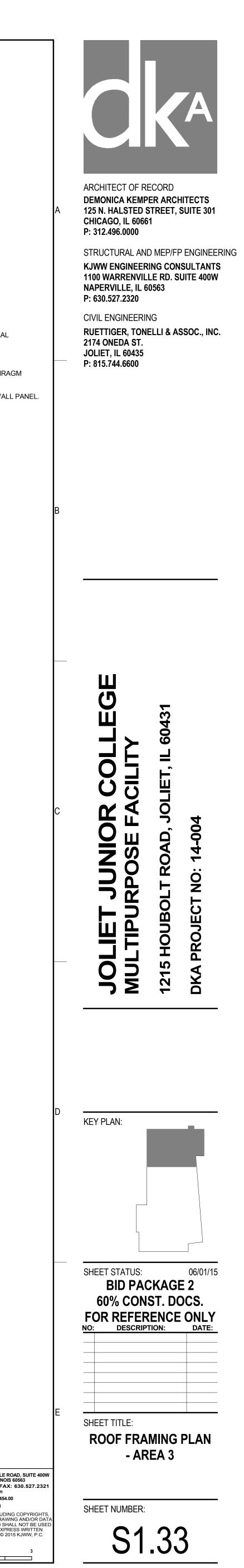
- 1. REFER TO PLAN FOR DECK BEARING ELEVATION.
- 2. REFER TO 1, 2, AND 3/S5.01 FOR TYPICAL SHEAR CONNECTION.
- L# INDICATES LINTEL IN STRUCTURAL MASONRY WALL REFER TO S4.00 FOR SCHEDULE. ML# INDICATES MECHANICAL OPENING IN MASONRY WALL - REFER TO S4.00 FOR SCHEDULE.
- 4. PROVIDE ANGLE FRAMING AROUND OPENING PER 10/S5.00.
- KSP# AND LHSP# INDICATES SPECIAL JOIST. REFER TO SHEET S5.02 FOR LOAD DIAGRAM.
- 6. PRECAST WALL PANELS ARE TO BE DESIGNED AS SHEAR WALLS. REFER TO PLAN FOR LATERAL REACTION.
- 7.
 BEAM THROUGH BEAM MOMENT CONNECTION REFER TO 4/S5.01 FOR DETAIL.
- XXK INDICATES LATERAL LOAD APPLIED TO PC WALL PANEL OVER FULL LENGTH OF DIAPHRAGM CONN TO WALL. LOAD IS SERVICE LEVEL WIND LOAD.
- D=XXK, L=XXK INDICATES SERVICE LEVEL BEAM AND JOIST DOWNWARD REACTIONS ON PC WALL PANEL.
- KEYNOTES: 1 4" (18 GA) TORIS-A ACOUSTICAL ROOF DECK.
- 2 3" TYPE N (20 GA) STEEL ROOF DECK.
- 3) 1 1/2" (20 GA) STEEL ROOF DECK.
- (4) HSS6X6X1/2 EL (+27' 6")
- 5 BEAM SUPPORTS OPERABLE PARTITION WALL.
- 6 FRAMING IS DESIGNED FOR A 25,000 LB AIR HANDLING UNIT. GENERAL CONTRACTOR TO COORDINATE THE UNIT PLACEMENT WITH THE STEEL
- FABRICATOR TO ENSURE BEAMS ARE PLACED UNDER THE UNIT RAILS/CURB AND THE JOISTS ARE PROPERLY DESIGNED.
- 7 COORDINATE HOIST BEAM SIZE AND LOCATION WITH ELEVATOR MANUFACTURER.
- 8 BEAM IS A COLLECTOR-PRECASTER TO DESIGN CONNECTION FOR SHEAR
- REACTION SHOWN IN PLAN PLUS 8 KIPS SERVICE WIND AXIAL LOAD.
 BEAM IS A COLLECTOR-PRECASTER TO DESIGN CONNECTION FOR SHEAR REACTION SHOWN IN PLAN PLUS 25 KIPS SERVICE WIND AXIAL LOAD.

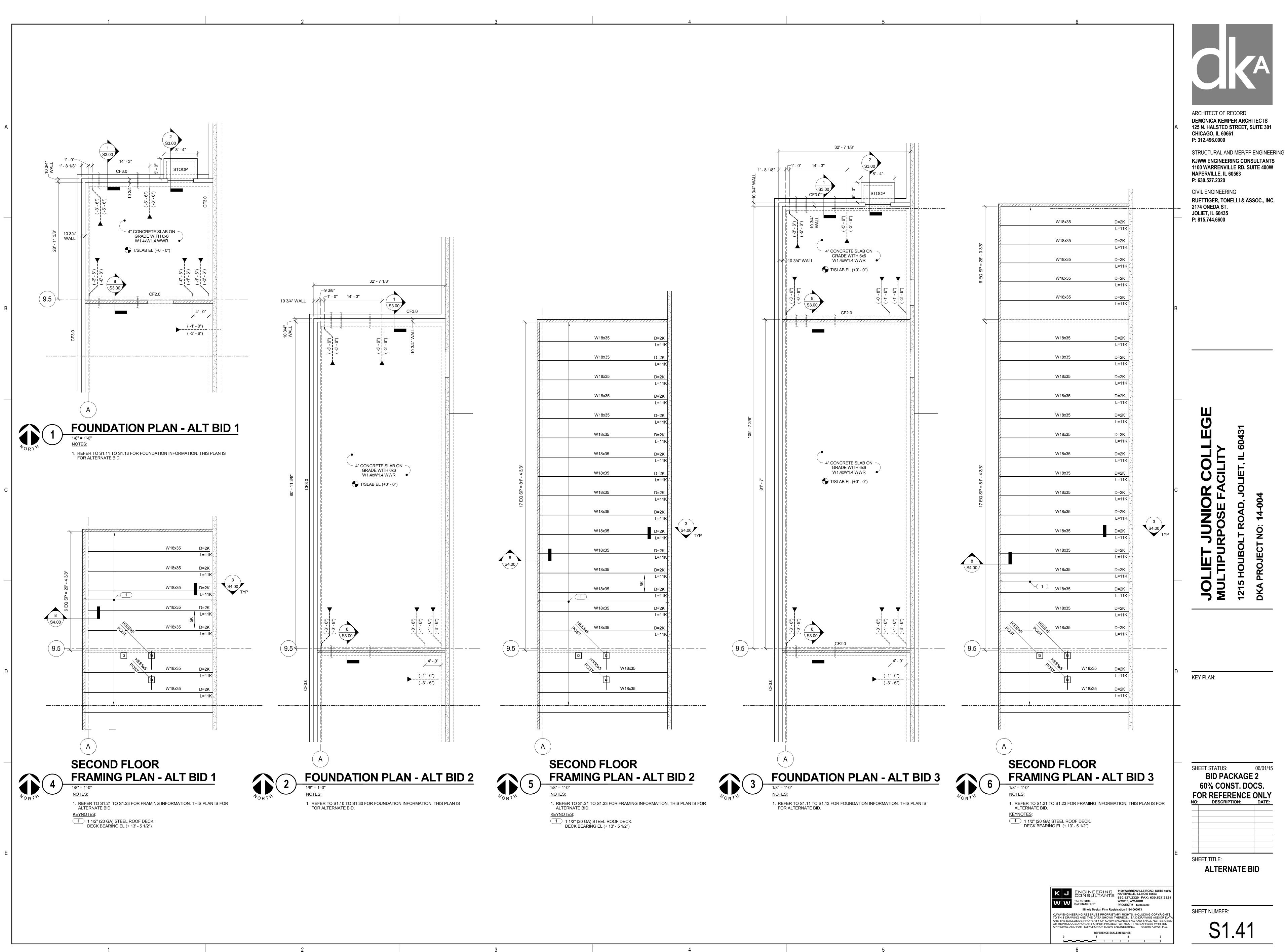


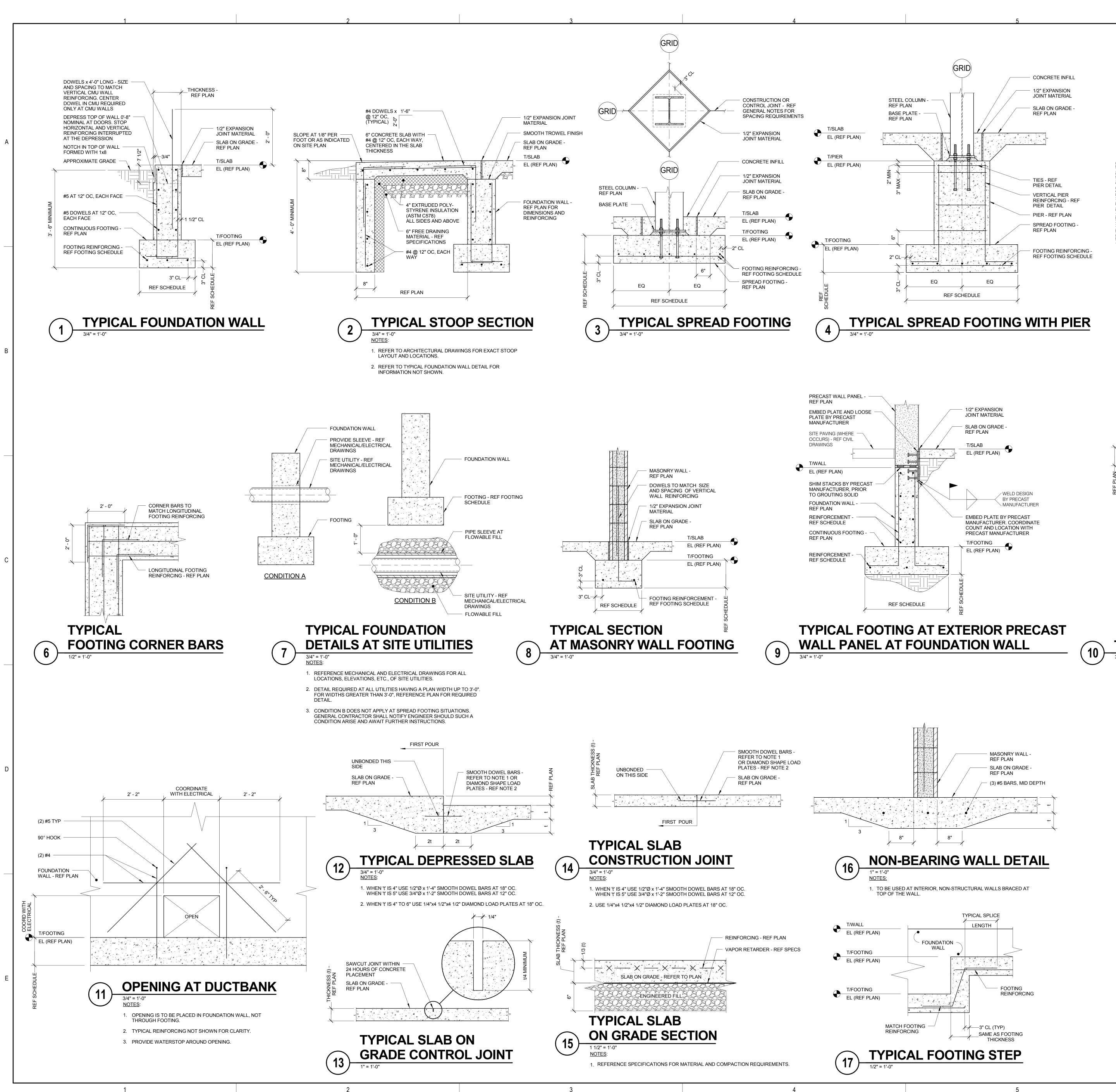


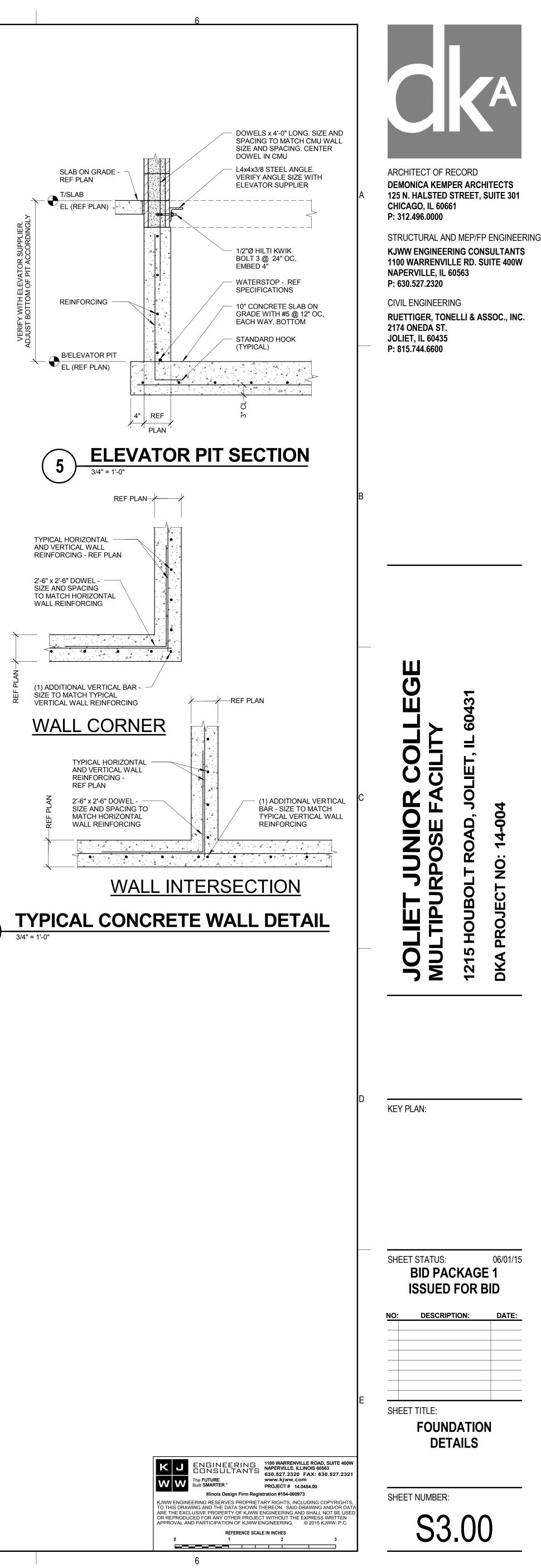


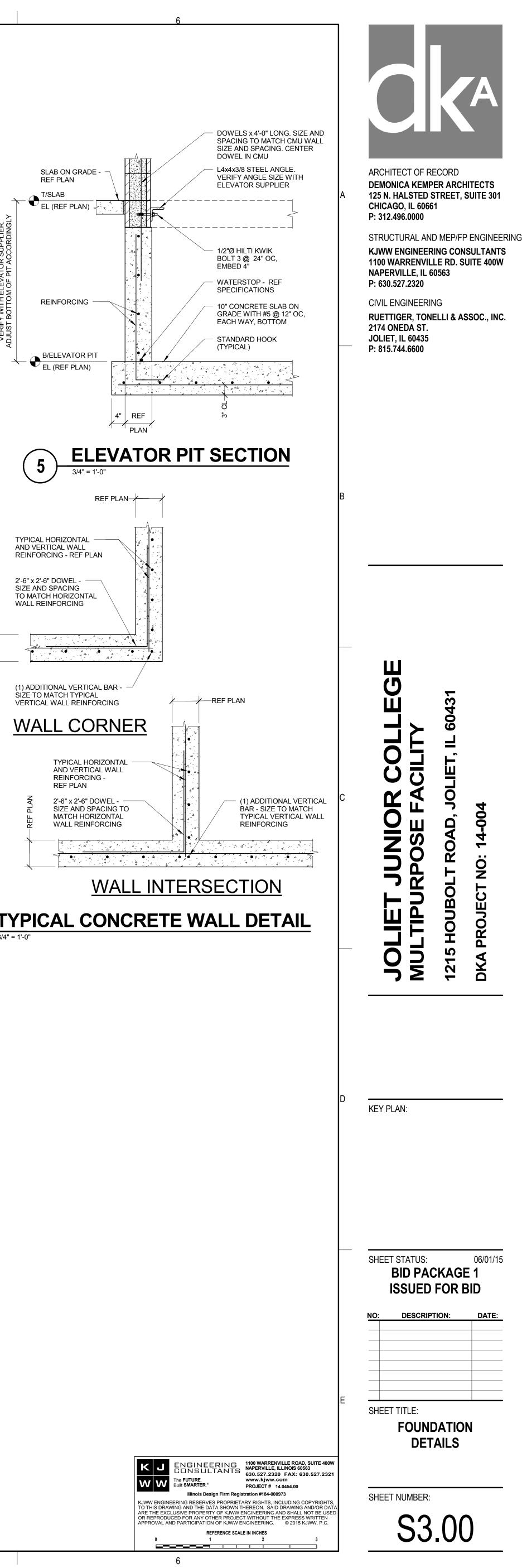


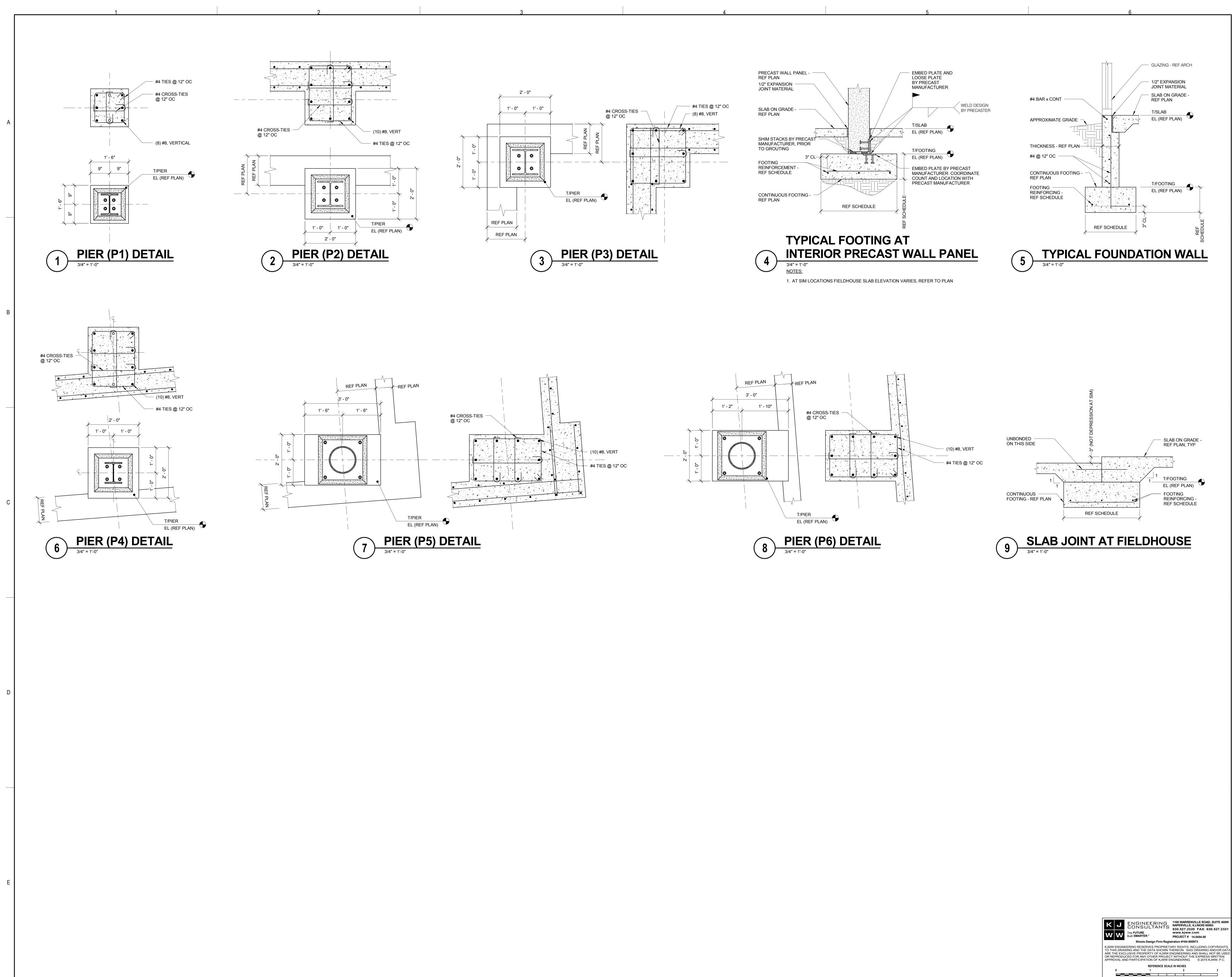












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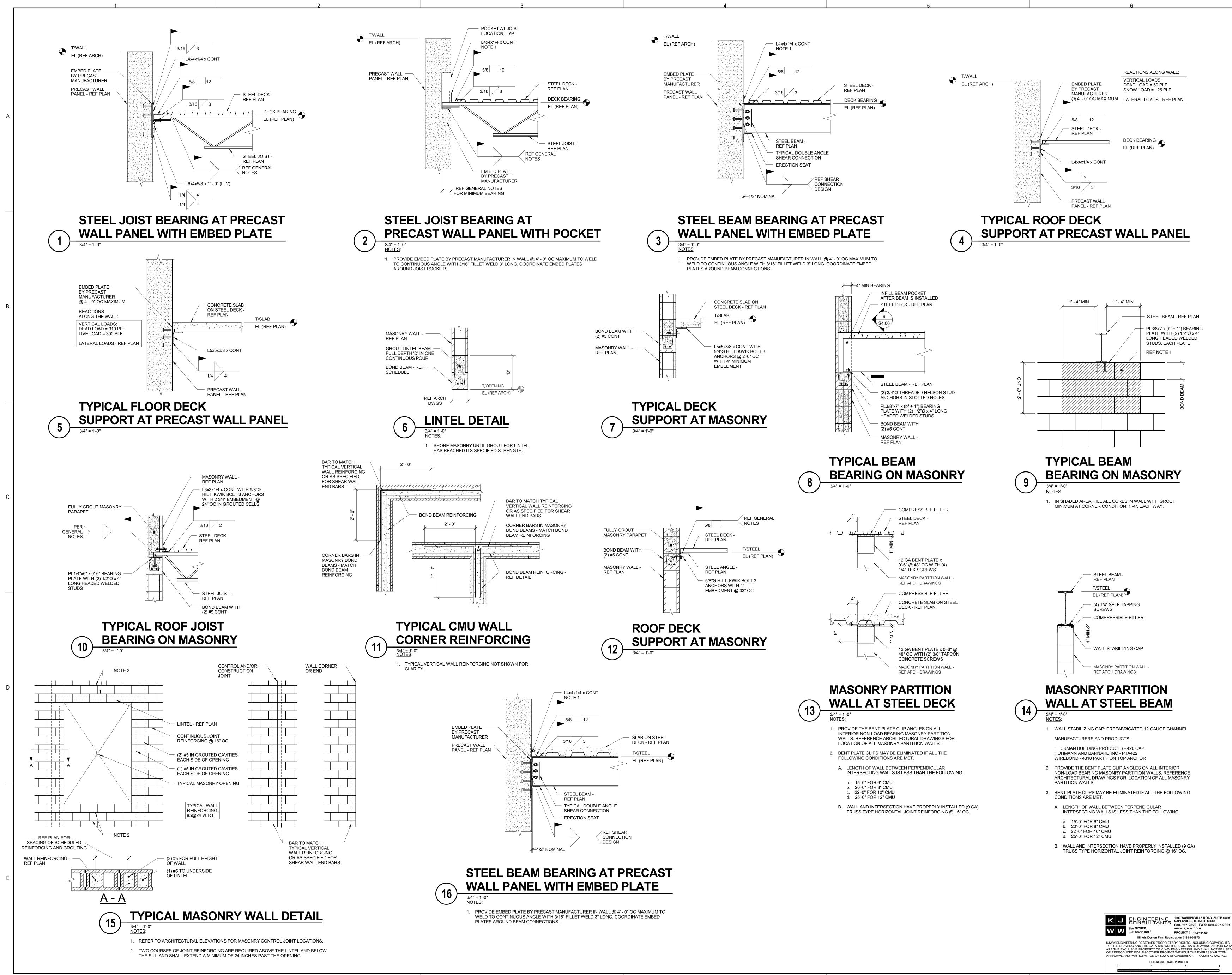
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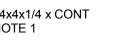
06/01/15 SHEET STATUS: **BID PACKAGE 1 ISSUED FOR BID** DESCRIPTION: DATE: NO: _____

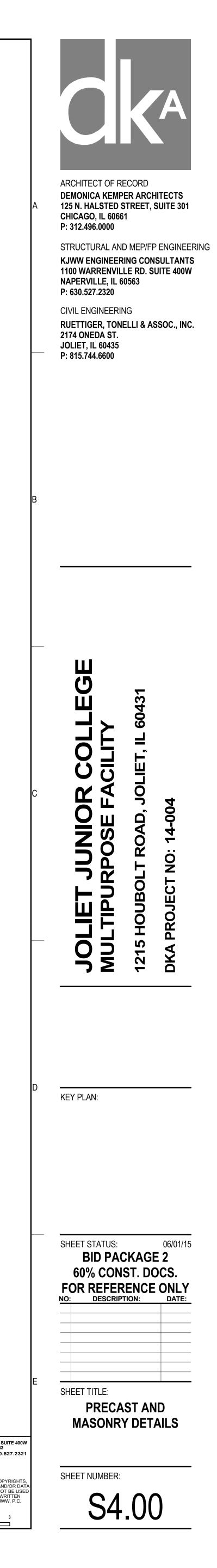
_____ _____ SHEET TITLE: FOUNDATION DETAILS

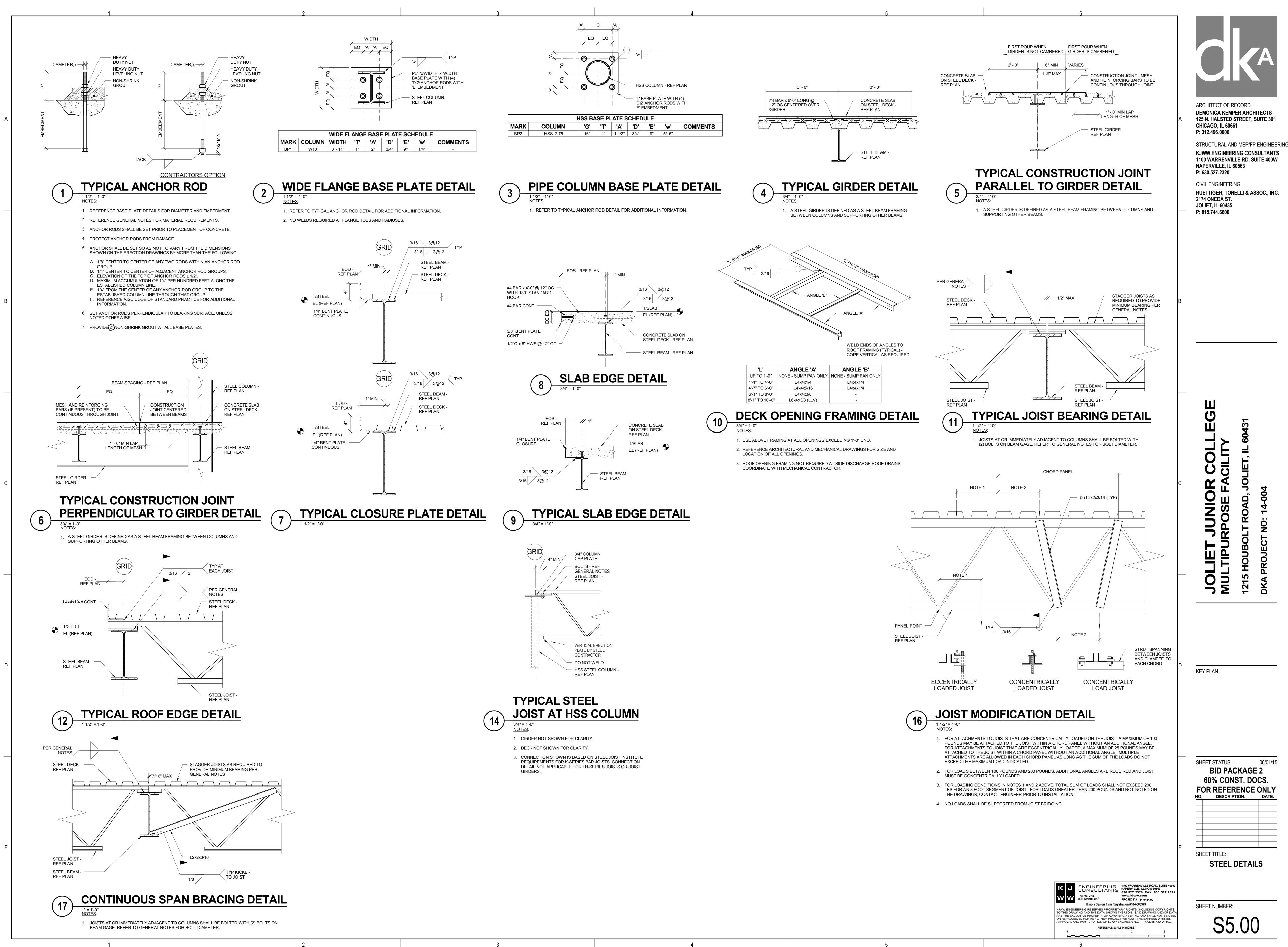
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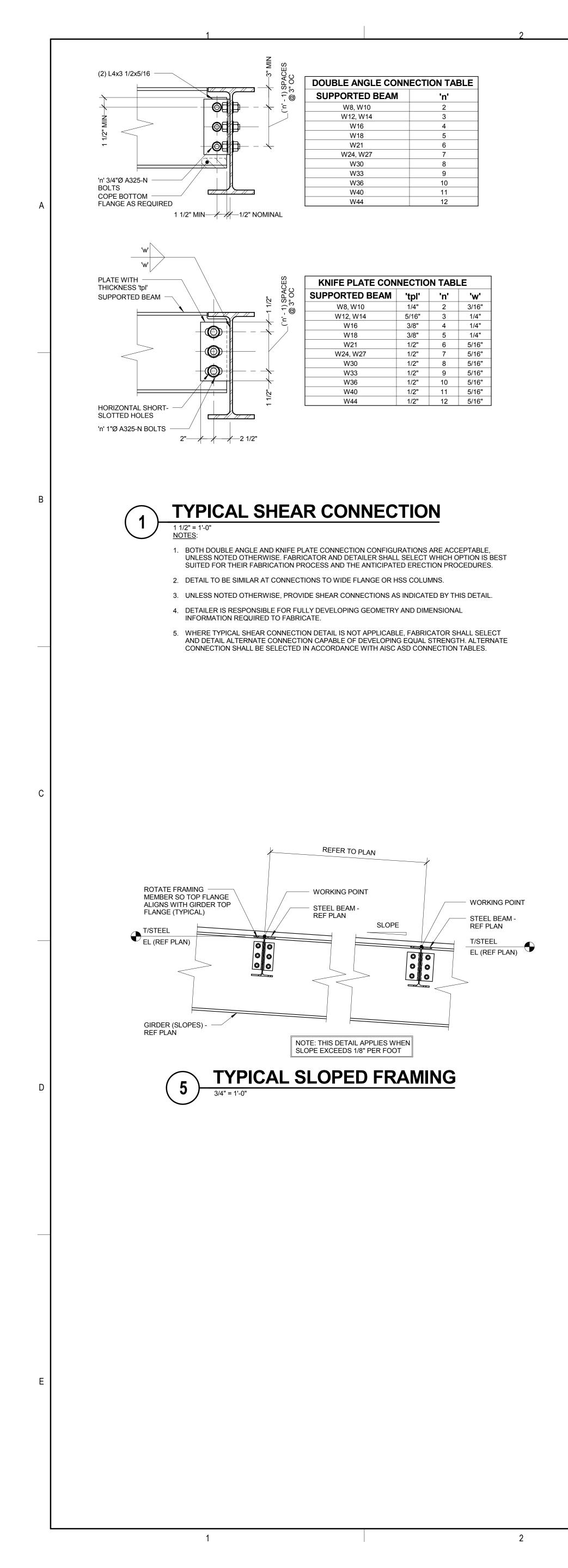


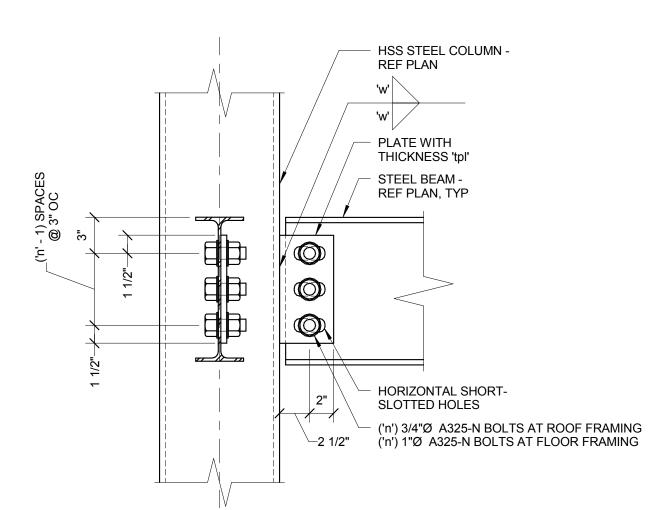










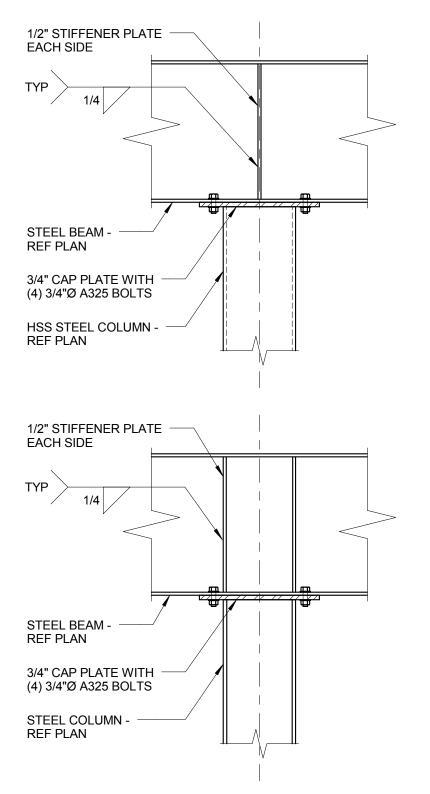


KNIFE PLATE CONNECTION TABLE									
SUPPORTED BEAM	'tpl'	'tpl' 'n'							
W8, W10	1/4"	2	3/16"						
W12, W14	5/16"	3	1/4"						
W16	3/8"	4	1/4"						
W18	1/2"	5	5/16"						
W21	1/2"	6	5/16"						
W24	1/2"	7	5/16"						



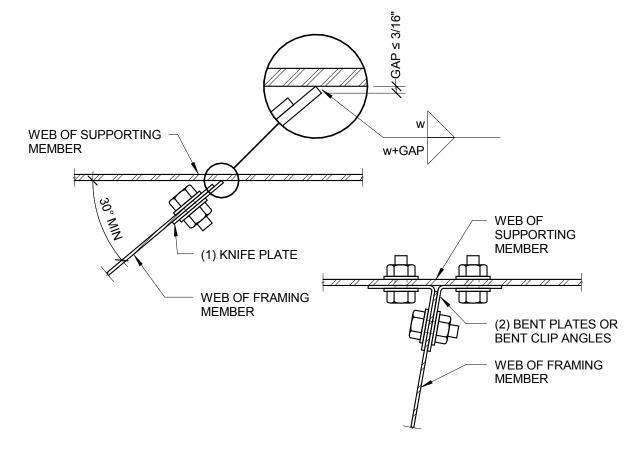
TYPICAL BEAM TO TUBE COLUMN SHEAR CONNECTION 1 1/2" = 1'-0" <u>NOTES</u>:

1. WHERE TYPICAL SHEAR CONNECTION DETAIL IS NOT APPLICABLE, FABRICATOR SHALL SELECT AND DETAIL ALTERNATE CONNECTION CAPABLE OF DEVELOPING EQUAL STRENGTH. ALTERNATE CONNECTION SHALL BE SELECTED IN ACCORDANCE WITH AISC ASD CONNECTION TABLES.



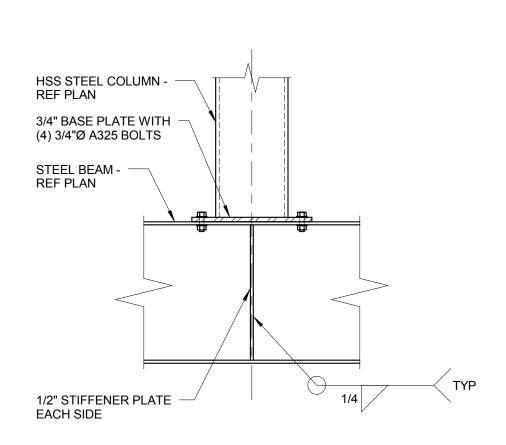


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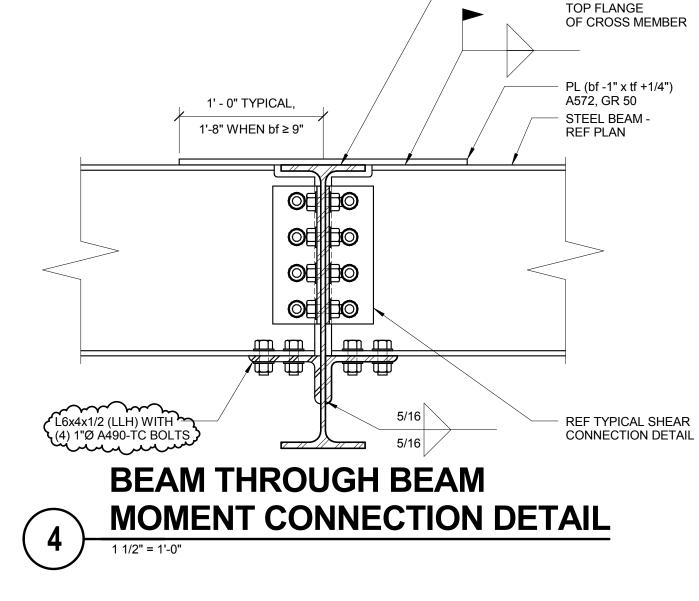




2. 'w' IS WELD SIZE FROM TYPICAL SHEAR CONNECTION.

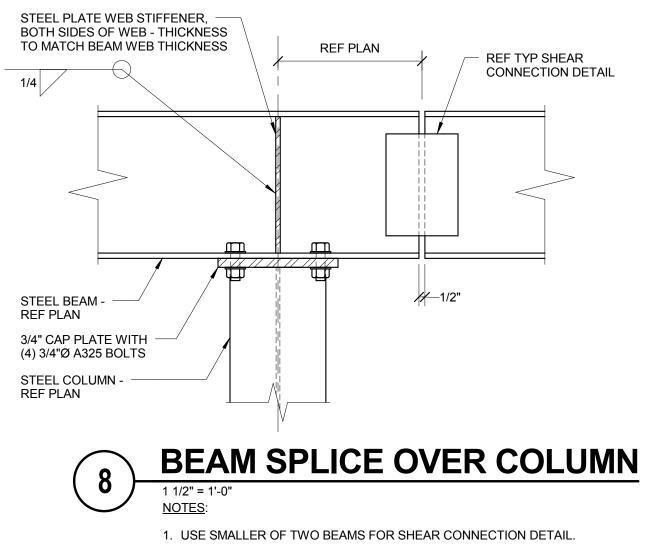




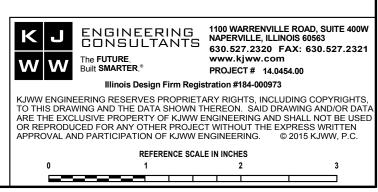


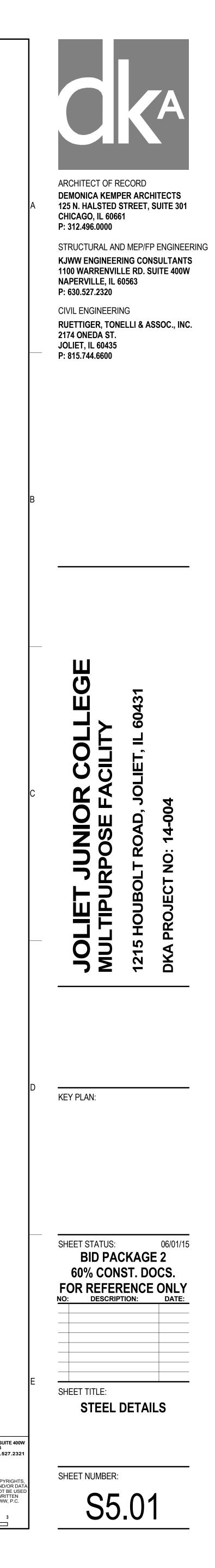
- DO NOT WELD TO

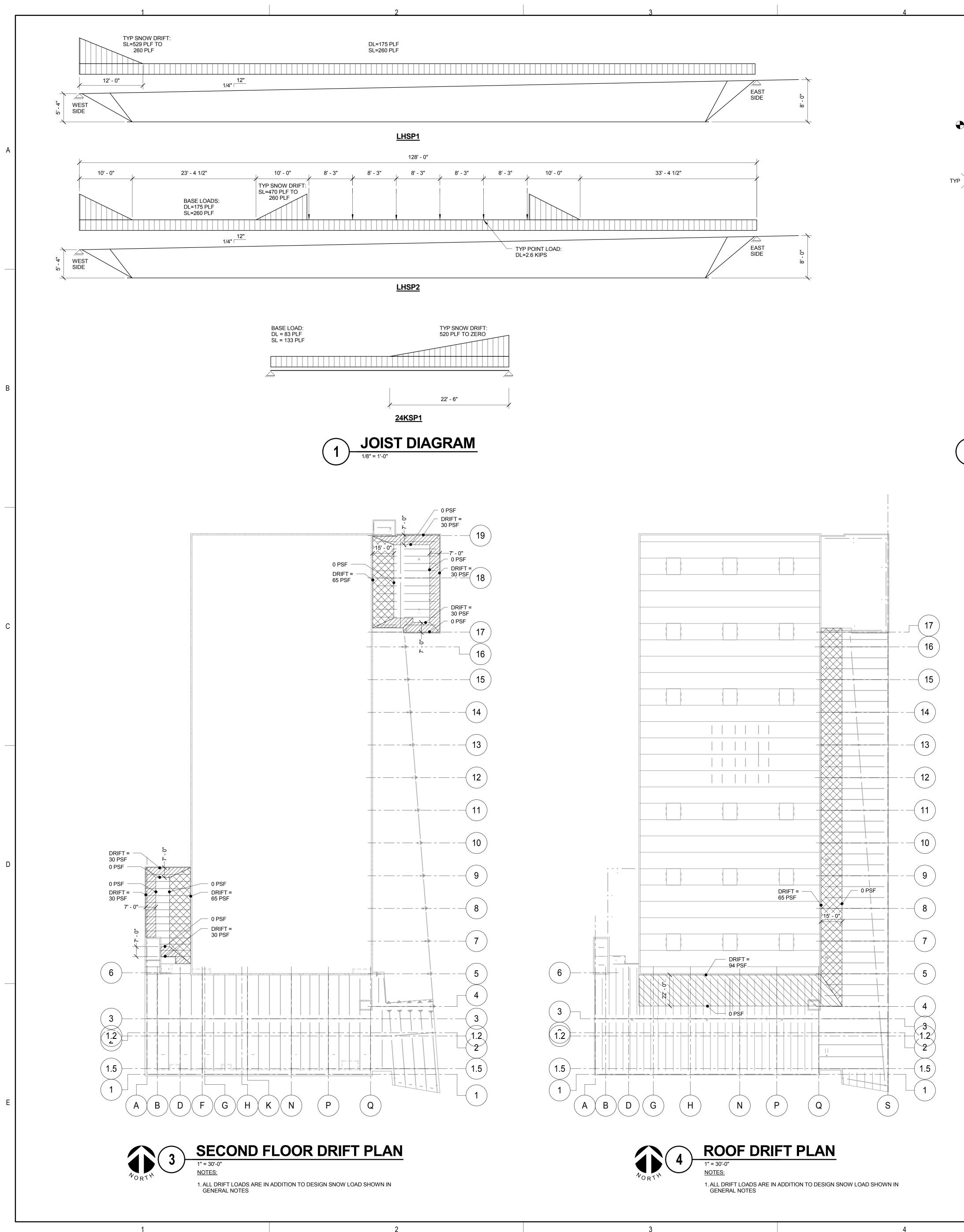
PLATES, OR SINGLE KNIFE PLATE AS BEST APPLIES TO CONNECTION.

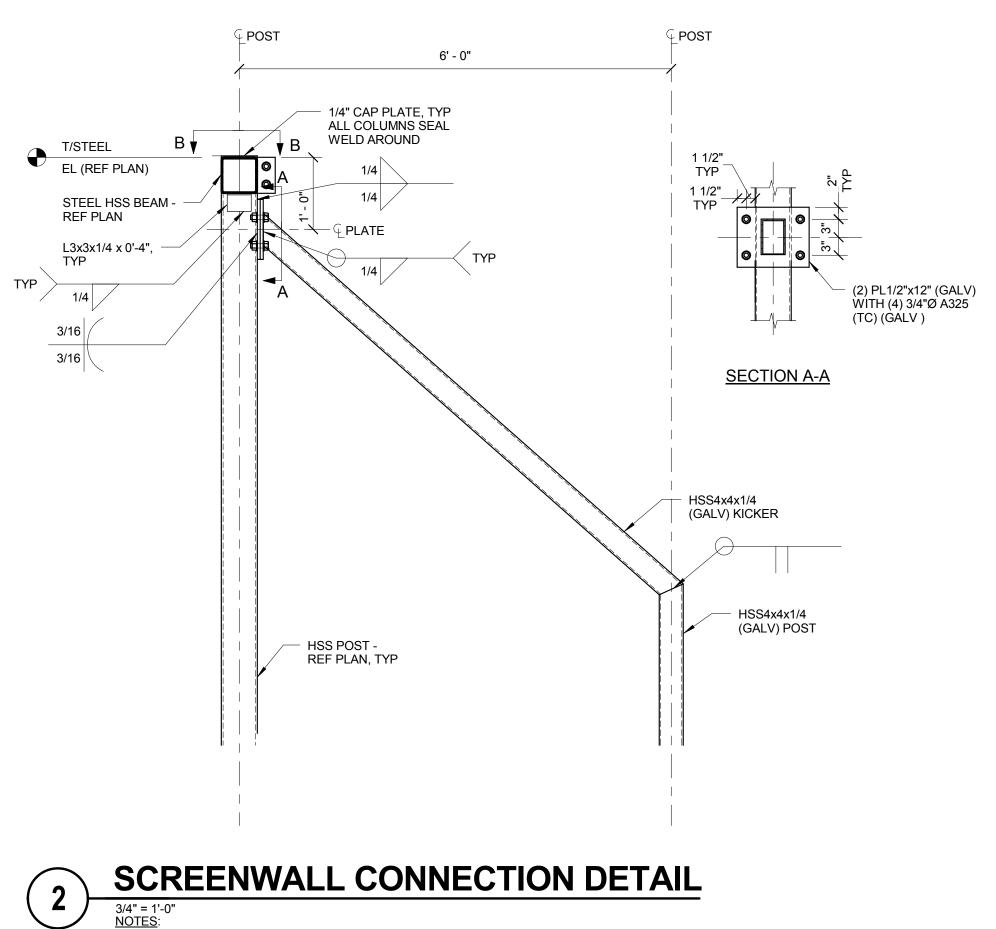


2. EITHER WELDED OR BOLTED CONNECTIONS MAY BE EMPLOYED.



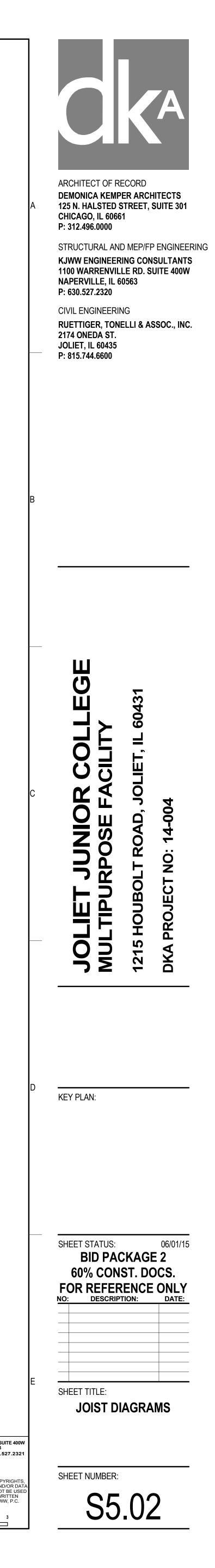


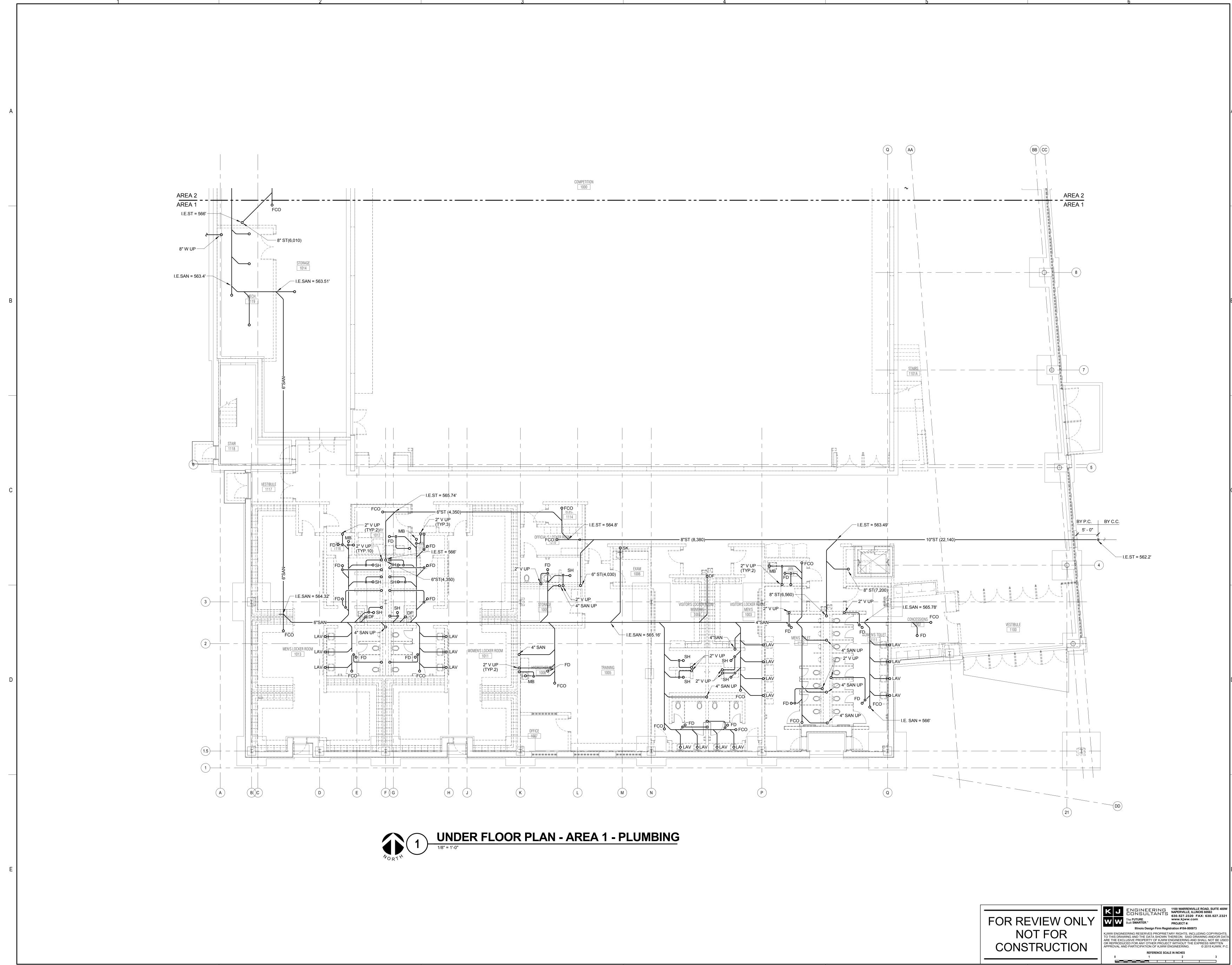


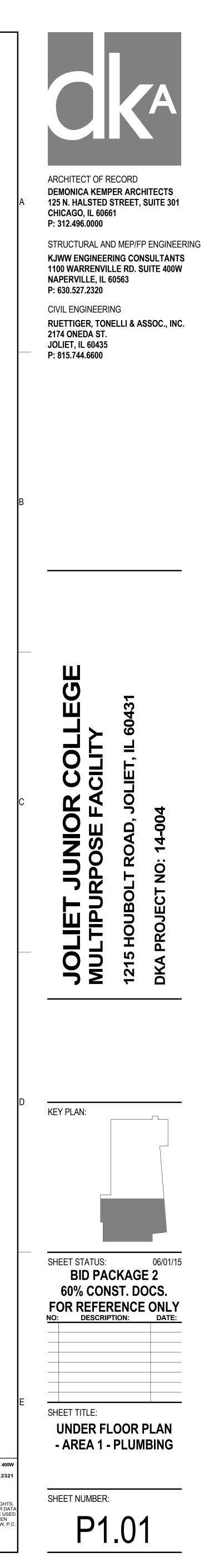


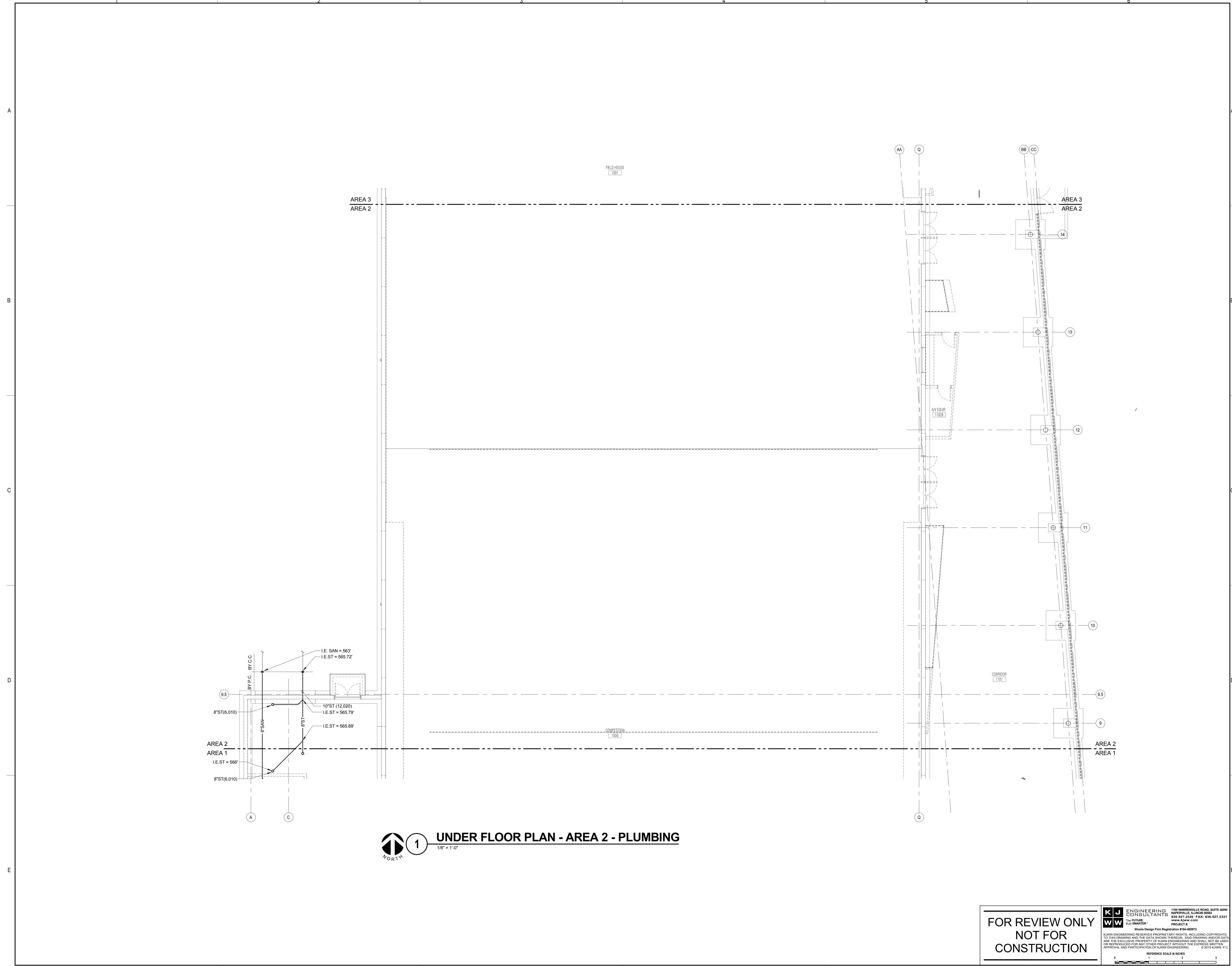
1. ALL WELDS TO BE CONTINUOUS AROUND BEAM TO CREATE SEAL.

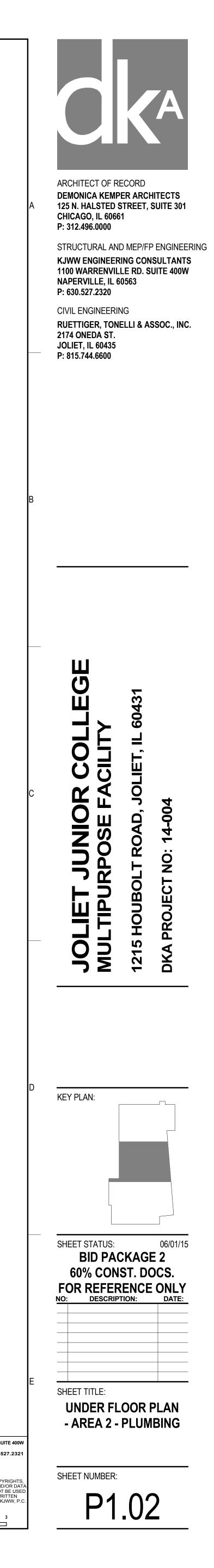


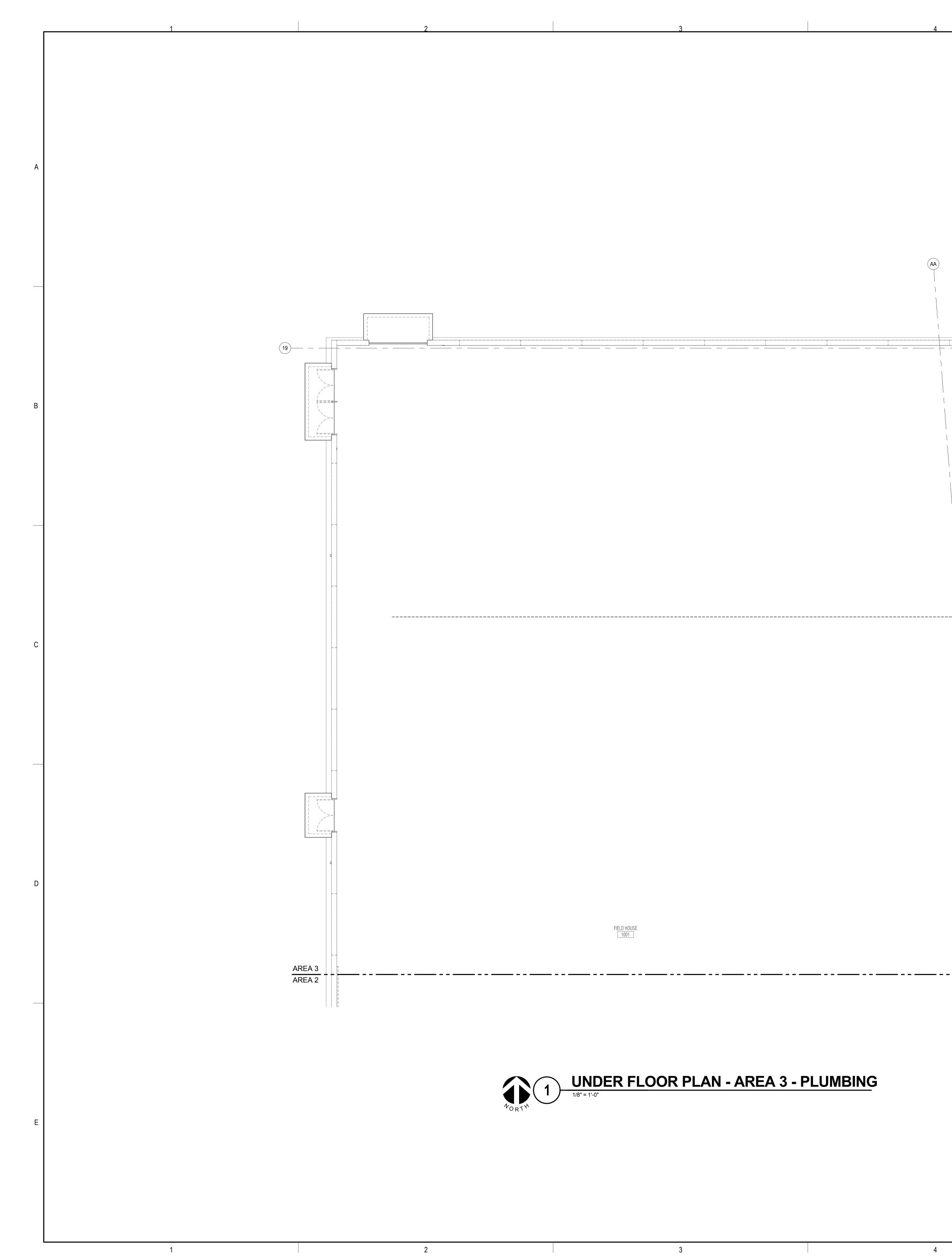










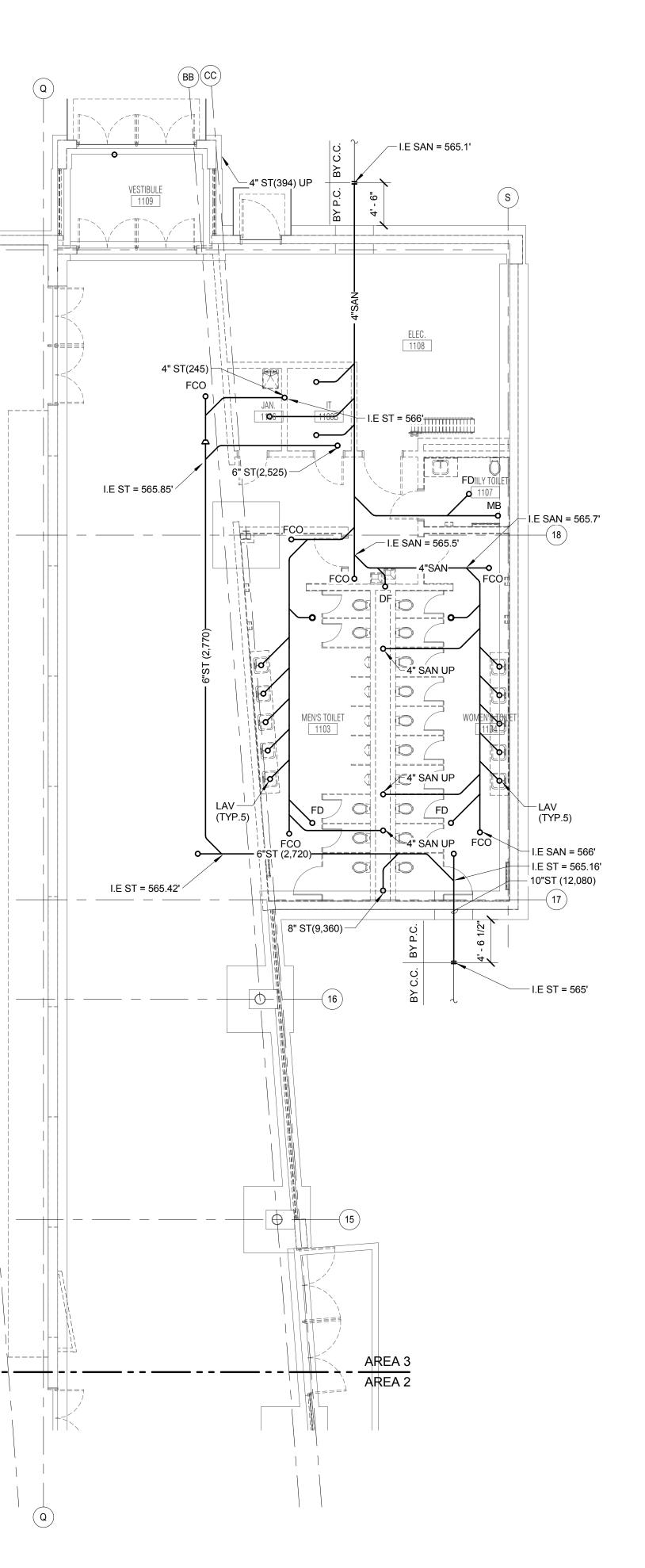


FIELD HOUSE

UNDER FLOOR PLAN - AREA 3 - PLUMBING

3

(AA)



5

FOR REVIEW ONLY NOT FOR CONSTRUCTION

