WRC CAMPUS FIBER UPGRADES (#9279.40) BID ISSUANCE # 2 **Iowa Department of Administrative Services**

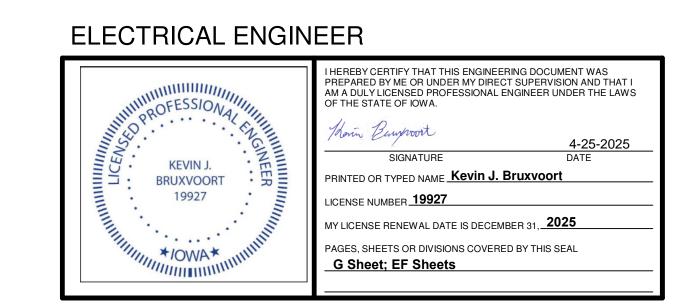
1251 334th St, Woodward, IA 50276



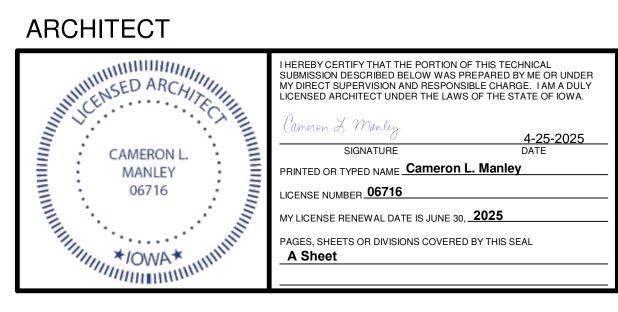
SHEET INDEX

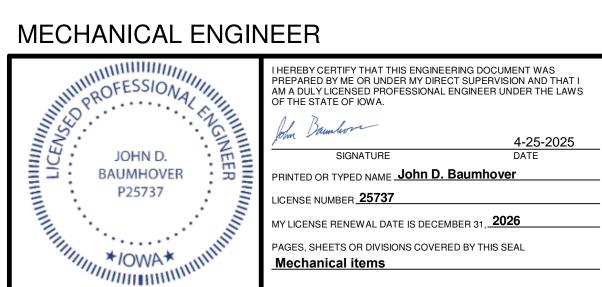
GENERAL ELECTRICAL INFORMATION 00-EF101 WEST ELECTRICAL SITE PLAN 00-EF102 COTTAGE ELECTRICAL SITE PLAN 00-EF103 NORTH ELECTRICAL SITE PLAN 00-EF104 NORTH SITE FIBER OPTIC BACKBONE - MEDICAL CENTER & BIRCHES 00-EF105 NORTH SITE ELECTRICAL - COTTAGES FIBER UPDATES WEST SITE ELECTRICAL - ADMINISTRATION BUILDING FIBER UPDATES 00-EF106 00-EF400 ELECTRICAL DETAILS 00-EF500 RISER DIAGRAM

CERTIFICATIONS



CIVIL ENGINEER KYLE A. LAWSON PRINTED OR TYPED NAME **Kyle A. Lawson** ICENSE NUMBER 26414 IY LICENSE RENEWAL DATE IS DECEMBER 31, 2025 PAGES, SHEETS OR DIVISIONS COVERED BY THIS SEAL





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- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES AT CRITICAL LOCATIONS TO VERIFY EXACT HORIZONTAL AND VERTICAL LOCATION.
- 3. THE FACILITY WILL COMPLETE PRIVATE UTILITY LOCATES OF KNOWN FACILITY UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL LOCATES AND CONFIRM THEY ARE COMPLETED PRIOR TO THE START OF CONSTRUCTION.
- IOWA CODE 480, UNDERGROUND FACILITIES INFORMATION, REQUIRES VERBAL NOTICE TO IOWA ONE-CALL BY CALLING 811 OR 1-800-292-8989 NOT LESS THAN 48 HOURS BEFORE EXCAVATING, EXCLUDING WEEKENDS AND HOLIDAYS.
- NOTIFY UTILITY COMPANIES WHOSE FACILITIES ARE SHOWN ON THE PLANS OR KNOWN TO BE WITHIN THE CONSTRUCTION LIMITS OF THE SCHEDULE PRIOR TO EACH STAGE OF CONSTRUCTION.
- UNLESS OTHERWISE SPECIFIED, ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS).
- 7. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY/STATE REGULATIONS/CODES AND OSHA STANDARDS.
- 8. THE MEANS OF THE WORK AND THE SAFETY OF THE CONTRACTOR'S EMPLOYEES ARE SOLELY THE
- RESPONSIBILITY OF THE CONTRACTOR. 9. NO WORK SHALL BE PERFORMED BEYOND THE PROJECT LIMITS WITHOUT PRIOR AUTHORIZATION
- 10. PROTECT EXISTING UTILITIES DURING CONSTRUCTION.
- 11. MAINTAIN POSITIVE DRAINAGE ON THE SITE THROUGHOUT THE PROJECT DURATION.
- 12. SITE CLEAN-UP SHALL BE PERFORMED ON A DAILY BASIS. DRIVES, ROADWAYS, ETC. SHALL BE KEPT CLEAN AT ALL TIMES.
- 13. ALL OPEN EXCAVATIONS SHALL BE PROTECTED.

FROM THE OWNER'S REPRESENTATIVE.

- 14. REPAIR OR REPLACE DAMAGED SITE FEATURES (WALLS, PAVEMENT, UTILITIES, FENCES, ETC.) TO REMAIN AT NO ADDITIONAL EXPENSE TO THE STATE.
- 15. ANY WORK REQUIRED TO COMPLETE THE SCOPE OF THIS PROJECT BUT NOT SPECIFICALLY CALLED OUT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. NO ADDITIONAL COMPENSATION TO BE ALLOWED FOR THE COMPLETION OF THIS WORK.
- 16. WORK WHICH DOES NOT CONFORM TO THE REQUIREMENTS OF THE CONTRACT WILL BE CONSIDERED UNACCEPTABLE. UNACCEPTABLE WORK, WHETHER THE RESULT OF POOR WORKMANSHIP, USE OF DEFECTIVE MATERIALS, DAMAGE THROUGH CARELESSNESS OR ANY OTHER CAUSE FOUND TO EXIST PRIOR TO THE FINAL ACCEPTANCE OF THE WORK SHALL BE REMOVED AND REPLACED IN AN ACCEPTABLE MANNER AS REQUIRED BY THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE. WORK DONE CONTRARY TO THE INSTRUCTIONS OF THE OWNER'S REPRESENTATIVE, WORK DONE BEYOND THE LINES SHOWN ON THE PLANS OR ANY EXTRA WORK DONE WITHOUT WRITTEN AUTHORIZATION WILL NOT BE PAID FOR.
- 17. THE CONTRACTOR SHALL MATCH EXISTING GRADES AT THE CONSTRUCTION LIMITS
- 18. STAGING LOCATIONS AND CONSTRUCTION ACCESS ROUTES FOR CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE COORDINATED WITH AND APPROVED BY THE FACILITY AND CONSTRUCTION
- 19. THE CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES NECESSARY TO PROTECT AGAINST SILTATION. EROSION AND DUST POLLUTION ON THE PROJECT SITE AND ANY OFF-SITE BORROW OR DISPOSAL AREAS USED FOR THIS PROJECT. COMPLY WITH SOIL EROSION CONTROL REQUIREMENTS OF IOWA CODE, FEDERAL REGULATIONS AND LOCAL ORDINANCES.
- 20. CONTROL DUST SPREADING FROM ALL WORK AND STAGING AREAS.
- 21. CONTRACTOR TO COORDINATE ANY SITE, UTILITY OR GRADE ADJUSTMENTS WITH THE CONSTRUCTION MANAGER PRIOR TO PROCEEDING WITH THE WORK.
- 22. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF WORK OF ALL SUBCONTRACTOR(S) INVOLVED ON THE PROJECT.

CONSTRUCTION STAGING NOTES

- 1. CONTRACTOR SHALL COORDINATE ALL STAGING AREAS WITH THE FACILITY AND CONSTRUCTION
- 2. CONTRACTOR SHALL REPLACE ALL PAVEMENT DAMAGED BY CONSTRUCTION ACTIVITIES AT THE END OF CONSTRUCTION. CONTRACTOR TO PROVIDE PHOTO DOCUMENTATION OF EXISTING CONDITIONS PRIOR TO BEGINNING WORK.
- CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS NOT TO BE PAVED TO THEIR ORIGINAL CONDITION AT THE END OF CONSTRUCTION. CONTRACTOR TO PROVIDE PHOTO DOCUMENTATION PRIOR TO BEGINNING WORK.
- 4. CONTRACTOR SHALL PROVIDE BARRICADES, FENCING OR OTHER DEVICES TO KEEP UNAUTHORIZED PERSONNEL OUT OF PROJECT SITE.

TRAFFIC AND PEDESTRIAN CONTROL NOTES

1. CONTRACTOR IS ALLOWED TO CLOSE DOWN LIMITED PARKING AND DRIVES DURING CONSTRUCTION. ACCESS TO ADJACENT BUILDINGS, DRIVES, PARKING, AND SIDEWALKS ARE TO BE MAINTAINED THROUGHOUT CONSTRUCTION. PHASING OF UTILITY CONSTRUCTION AND ROAD PATCHING WILL BE REQUIRED TO MAINTAIN VEHICULAR AND PEDESTRIAN TRAFFIC TO ALL BUILDINGS AND SHALL BE COORDINATED WITH SCHEDULES OF OTHER TRADES, CONTRACTORS, AND UTILITY COMPANIES.

2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTROL TRAFFIC DURING CONSTRUCTION AND PROVIDE ADEQUATE TRAFFIC AND PEDESTRIAN CONTROL AND SIGNAGE. AT A MINIMUM CONTRACTOR TO PROVIDE TYPE 4 BARRICADES AT EACH END OF CLOSED ROADS AND DRIVES.

3. CONTRACTOR TO INSTALL AND MAINTAIN CONSTRUCTION FENCE AROUND ALL AREAS OF ACTIVE CONSTRUCTION. CONTRACTOR SHALL ASSUME PEDESTRIAN TRAFFIC WILL BE IN THE AREA THROUGHOUT THE PROJECT DURATION.

4. OWNER/CONSTRUCTION MANAGER TO INSTALL TEMPORARY GRANULAR SURFACING AND CHAIN LINK FENCE AND GATES AROUND PROPOSED CONSTRUCTION STAGING AREAS. CONTRACTORS TO COORDINATE WITH CONSTRUCTION MANAGER ON PORTIONS OF STAGING AREA THAT ARE REQUIRED FOR THEIR SCOPE OF WORK AND COORDINATE WITH ALL OTHER CONTRACTORS AND TRADES ONSITE.

5. PEDESTRIAN ACCESS MUST BE MAINTAINED TO ALL BUILDINGS THROUGHOUT CONSTRUCTION. PEDESTRIAN ACCESS MUST BE MAINTAINED AT ALL TIMES BETWEEN COTTAGES, GYM/SCHOOL, AND KITCHEN BUILDINGS. COORDINATE WITH FACILITY AND CONSTRUCTION MANAGER ON PHASING AND SHUT DOWN OF ALL DRIVES AND SIDEWALKS. TEMPORARY GRANULAR PATCHES WILL BE REQUIRED FOR ANY DRIVES AND SIDEWALKS WHICH ARE NOT PATCHED WITH CONCRETE IN A TIMELY MANNER TO LIMIT DISRUPTIONS TO CAMPUS TRAFFIC AND PEDESTRIAN FLOW.

DEMOLITION NOTES

CONTRACTOR SHALL REPLACE AT NO COST TO THE OWNER ALL DAMAGED STREETS, DRIVES, SIDEWALKS, CURB AND GUTTER, SIGNS, PAVEMENT MARKINGS, LIGHTS, FENCES AND ALL OTHER SURFACE STRUCTURES NOT SCHEDULED TO BE REMOVED DURING THE COURSE OF THE WORK.

2. ALL LANDSCAPING INCLUDING TREES, SHRUBS, PERENNIALS NOT CALLED OUT TO BE REMOVED OR APPROVED FOR REMOVAL BY CONSTRUCTION MANAGER SHALL BE PROTECTED AND REPLACED AT NO COST TO THE OWNER IF DAMAGED DURING CONSTRUCTION. REPLACE TREES WITH (1) EQUIVALENT TREE UP TO 6" CALIPER AND (1) ADDITIONAL TREE FOR EVERY 6" CALIPER BEYOND THAT. ALL PLANTS THAT ARE DESTROYED OR DAMAGED SHALL BE REPLACED WITH NEW PLANTS OF THE EQUIVALENT TYPE.

WHERE A SECTION OF PAVEMENT, CURB AND GUTTER, OR SIDEWALK IS CUT OR OTHERWISE DAMAGED BY THE CONTRACTOR, THE ENTIRE SECTION SHALL BE REMOVED AND REPLACED. PAVEMENT, CURBS, GUTTERS, AND SIDEWALKS SHALL BE REMOVED TO THE NEAREST JOINT A MINIMUM OF TWO FEET BEYOND THE EDGE OF ALL EXCAVATIONS. CONTRACTOR SHALL DOCUMENT (OR PHOTO) ALL CRACKED PCC PAVEMENT OR DAMAGED HMA PAVEMENT PRIOR TO CONSTRUCTION. IF NEW CRACKS IN PCC PAVEMENT DEVELOP OR HMA PAVEMENT IS DAMAGED DUE TO THE CONSTRUCTION TRAFFIC (EXTENDS BEYOND CONSTRUCTION LIMITS), CONTRACTOR SHALL REPLACE DAMAGED AREA AT NO ADDITIONAL COST TO OWNER.

EXCAVATION NOTES

1. EXCAVATE TRENCH AND PROVIDE PIPE BEDDING AND BACKFILL MATERIAL PER IOWA SUDAS SPECIFICATIONS.

STRIP, STOCKPILE, AND RESPREAD A MINIMUM OF 6" OF TOPSOIL IN ALL SOD AREAS DISTURBED BY CONSTRUCTION. DISTURBED AREAS SHALL BE LEFT IN SMOOTH CONDITIONS READY FOR FINAL SEEDBED PREPARATION BY FACILITY. GRADE ALL DISTURBED AREAS TO DRAIN AS PONDING OF WATER WILL NOT BE ACCEPTABLE.

3. CONTRACTOR IS RESPONSIBLE FOR ALL TRENCH AND FILL SETTLEMENT FOR THE PROJECT'S ONE YEAR WARRANTY PERIOD. CONTRACTOR SHALL PROVIDE ADDITIONAL FILL MATERIAL FOR ALL SETTLEMENT AREAS AFTER SITE RESTORATION HAS BEEN COMPLETED. FACILITY WILL BE RESPONSIBLE FOR RESEEDING.

OWNER WILL PROVIDE AN EXCESS SOIL AND UTILITY SPOILS DISPOSAL SITE AVAILABLE ONSITE. CONTRACTORS WILL BE RESPONSIBLE FOR STRIPPING AND RESPREADING TOPSOIL AND LEAVING THE WASTE SITE IN A SMOOTHLY GRADED CONDITION AT THE END OF CONSTRUCTION. ONLY CLEAN SOIL MATERIAL AND GRANULAR MATERIAL LESS THAN 1.5" DIAMETER WILL BE ALLOWED TO BE PLACED ONSITE ALL DEBRIS AND LARGER ROCK OR CONCRETE WASTE SHALL BE DISPOSED OF OFFSITE. POTHOLE MUD DISPOSAL WILL NOT BE PERMITTED ONSITE AND SHOULD BE DISPOSED OF OFFSITE.

UTILITY NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH IOWA SUDAS STANDARD SPECIFICATIONS AND IOWA DOT SPECIFICATIONS AND STANDARD ROAD PLANS, AND ROAD DESIGN DETAILS, UNLESS OTHERWISE NOTED ON THE DRAWINGS.

2. ALL OPEN EXCAVATIONS SHALL BE PROTECTED WITH SAFETY FENCE, BARRIERS OR BARRICADES IN ACCORDANCE WITH OSHA.

CONTRACTOR TO IMPLEMENT TEMPORARY SHORING OR SUPPORT AT ALL UTILITY CROSSINGS AS REQUIRED BY CONTRACTORS MEANS AND METHODS. ALL DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.

PAVEMENT GENERAL NOTES

1. EXISTING ASPHALT PAVEMENT SHALL BE REMOVED AS REQUIRED FOR UTILITY INSTALLATION AND REPLACED WITH PCC PAVEMENT UNLESS PRIOR APPROVAL IS PROVIDED BY ENGINEER TO REPLACE WITH ASPHALT PATCHES.

ALL SLOPES IN PAVEMENT SHALL BE UNIFORM TO AVOID PONDING. ANY PONDING ON PAVEMENT PATCHES OR ADJACENT TO PATCHES WILL BE CONSIDERED UNACCEPTABLE AND SHALL BE REPLACED.

SALVAGE ALL SIGNS WITHIN THE CONSTRUCTION LIMITS AND REINSTALL IN THE SAME LOCATION AND

CONDITION AFTER CONSTRUCTION. ANY STREET SIGNS OR POLES DAMAGED DURING THE COURSE OF

USE TYPE "A" COMPACTION ON SUBGRADE AND SUBBASE. TYPE "A" COMPACTION PER IOWA DOT STANDARD SPECIFICATION FOR HIGHWAY AND BRIDGE CONSTRUCTION.

WORK TO BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER.

PAVEMENT PATCHES AS SHOWN IN PLANS IN ACCEPTABLE WEATHER CONDITIONS.

5. IN THE EVENT THAT PAVEMENT PATCHES ON ROADS AND SIDEWALKS CANNOT BE COMPLETED BEFORE THE COLD WEATHER SEASON BEGINS, CONTRACTOR MAY INSTALL TEMPORARY ROCK PATCHES IN AREAS WHERE PAVEMENT HAS BEEN REMOVED RATHER THAN COMPLETE PAVEMENT PATCHES IN LESS THAN IDEAL WEATHER CONDITIONS. TEMPORARY ROCK PATCHES SHALL BE A MINIMUM OF 8" DEEP AND COMPACTED. CONTRACTOR TO MAINTAIN TEMPORARY ROCK PATCHES THROUGHOUT THE WINTER SEASON INCLUDING SUPPLEMENTING WITH ADDITIONAL ROCK AS REQUIRED AND INSTALL PERMANENT

ALL EXISTING PAINT STRIPING WHICH IS REMOVED AS PART OF THE PROJECT SHALL BE REPLACED TO MATCH EXISTING STRIPING AND SYMBOLS. IF PARTIAL PAINT STRIPES ARE REMOVED, THE ENTIRE STRIPE SHALL BE REPLACED. ALL STRIPING AND MATERIAL SHALL BE INSTALLED ACCORDING TO SUDAS

SURFACE RESTORATION NOTES

- SCARIFY AREAS TO RECEIVE TOPSOIL TO A MINIMUM DEPTH OF 6". REMOVE ALL STONES, WOOD AND OTHER DEBRIS LARGER THAN 2" FROM AREAS TO RECEIVE TOPSOIL. DO NOT COMPACT TOPSOIL.
- FINISH GRADE ALL AREAS DISTURBED BY THEIR OWN WORK TO WITHIN +/- 0.10 FEET OF EXISTING GRADES AND LEAVE IN A CONDITION REQUIRING MINOR SEED BED PREPARATION AND HARROWING PRIOR TO SEEDING OPERATIONS BY OTHERS.
- EXISTING FACILITIES (CURBS, PAVEMENT, UTILITIES, ETC.) THAT ARE TO REMAIN AND DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.

SITE WORK TECHNICAL SPECIFICATIONS

THE MOST RECENT EDITION OF THE IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) AND IOWA DOT SPECIFICATIONS SHALL APPLY TO ALL SITE WORK PERFORMED ON THIS PROJECT EXCEPT AS MODIFIED HEREIN. MEASUREMENT AND PAYMENT SECTIONS AND ADDITIONAL COMPENSATION REFERENCES SHALL NOT APPLY TO THIS PROJECT AS IT IS A LUMP SUM BID .

CONTRACTOR SHALL SUBMIT SHOP DRAWING SUBMITTALS FOR ALL PROPOSED PRODUCTS.

A. CONCRETE PAVING:

CONCRETE: MATERIALS AND MIXING FOR ALL CONCRETE WORK, UNLESS OTHERWISE SPECIFIED, SHALL CONFORM TO IOWA DOT SPECIFICATIONS, SECTIONS 2301.03 THROUGH 2301.06, 2301.13 AND 2301.28 FOR AIR-ENTRAINED TYPE C-4 MIX WITH TYPE I CEMENT

FLY ASH (CONTRACTOR'S OPTION) - ASTM C618, TYPE C, NOT TO EXCEED 15% OF CEMENTITIOUS MATERIAL

COARSE AGGREGATE DURABILITY SHALL BE CLASS III, 3/4" MAX.

COMPRESSIVE STRENGTH: 2800 PSI @ 7 DAYS AND 4000 PSI @ 28 DAYS

SLUMP: 3" ± 1".

AIR CONTENT: 7.0% ± 1.0%

WATER/CEMENT RATIO: NOT TO EXCEED 0.53

FINISH: MATCH EXISTING FINISH FOR ROADWAY AND SIDEWALK PATCHING.

TESTING - ONE SET OF TEST CYLINDERS REQUIRED FOR EACH 100 C.Y. OR PORTION THEREOF, OF CONCRETE POURED PER WORK LOCATION. CONCRETE TESTING TO BE DONE AND PAID FOR BY OWNER. CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL REQUIRED TESTING AND GEOTECHNICAL WORK WITH CONSTRUCTION MANAGER.

SURFACE CURING: CONTRACTOR SHALL APPLY WHITE PIGMENT LIQUID CURING COMPOUND IN A FINE SPRAY TO FORM CONTINUOUS UNIFORM FILM AFTER FINISHING AND SURFACE MOISTURE HAS DISAPPEARED, OR WITHIN 30 MINUTES AFTER FORMS ARE REQUIRED.

SUBMIT CONCRETE MIX DESIGN FOR APPROVAL.

COLD WEATHER CONCRETE: WHEN THE ATMOSPHERIC AIR TEMPERATURE MAY BE EXPECTED TO DROP BELOW 40°F AT THE TIME CONCRETE IS DELIVERED TO THE WORK SITE, DURING PLACEMENT, OR AT ANY TIME DURING CURING PERIOD, CONCRETE SHALL BE MIXED, PLACED, AND PROTECTED IN ACCORDANCE WITH ACI STANDARD 306, "RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING." IT IS THE OWNERS PREFERENCE TO AVOID COLD WEATHER CONCRETE FOR THIS PROJECT AND PROVIDE TEMPORARY GRANULAR SURFACING FOR SIDEWALK AND PAVING AS REQUIRED.

B. PAVEMENT JOINTING

PROVIDE IDOT TYPE 'RD' JOINTS TO TIE INTO ALL ABUTTING PAVEMENT.

PROVIDE IDOT TYPE 'DW' JOINTS AT END OF DAY PAVING INCLUDING ALL COLD JOINTS.

PROVIDE IDOT TYPE 'C' JOINTS TO MATCH EXISTING SPACING OR AT MAXIMUM SPACING OF 12' UNLESS OTHERWISE APPROVED BY

PROVIDE IDOT TYPE 'L-1' JOINTS FOR ALL LONGITUDINAL JOINTS.

INSTALL SIDEWALK EXPANSION JOINTS TO MATCH EXISTING CONDITIONS AND AS DIRECTED BY THE ENGINEER.

SIDEWALK REPLACEMENTS WHICH ARE ADJACENT TO STRUCTURAL STOOPS OR TUNNEL CAPS SHALL BE TIED TO EXISTING FROST FREE STRUCTURES WITH 24" LONG #4 TIE BARS EMBEDDED A MINIMUM OF 9" INTO THE EXISTING STRUCTURE TO PREVENT SETTLEMENT AND FROST HEAVE.

SAW CUTTING TO BE COMPLETED A MAXIMUM OF 24 HOURS FROM CONCRETE PLACEMENT. RANDOM CRACKING CAUSED BY DELAYED SAW CUTTING MAY REQUIRE REMOVAL AND REPLACEMENT.

ALL PAVEMENT JOINTS SHALL BE SEALED ACCORDING TO IOWA DOT SPECIFICATIONS.

C. PAVEMENT REINFORCING STEEL: PAVING REINFORCEMENT SHALL BE ASTM A615 GRADE 60 AND SHALL HAVE A PROTECTIVE COATING OF EPOXY APPLIED BY ELECTROSTATIC SPRAY METHOD IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A775.

D. GRANULAR SURFACING

MATERIALS AND INSTALLATION TO MEET IDOT SPECIFICATIONS 4120, CLASS A ROADSTONE.

E. TRENCH EXCAVATION AND BACKFILL

BEDDING AND BACKFILL MATERIAL: SHALL COMPLY WITH IOWA SUDAS SECTION 3010.

BACKFILL COMPACTION REQUIREMENTS:

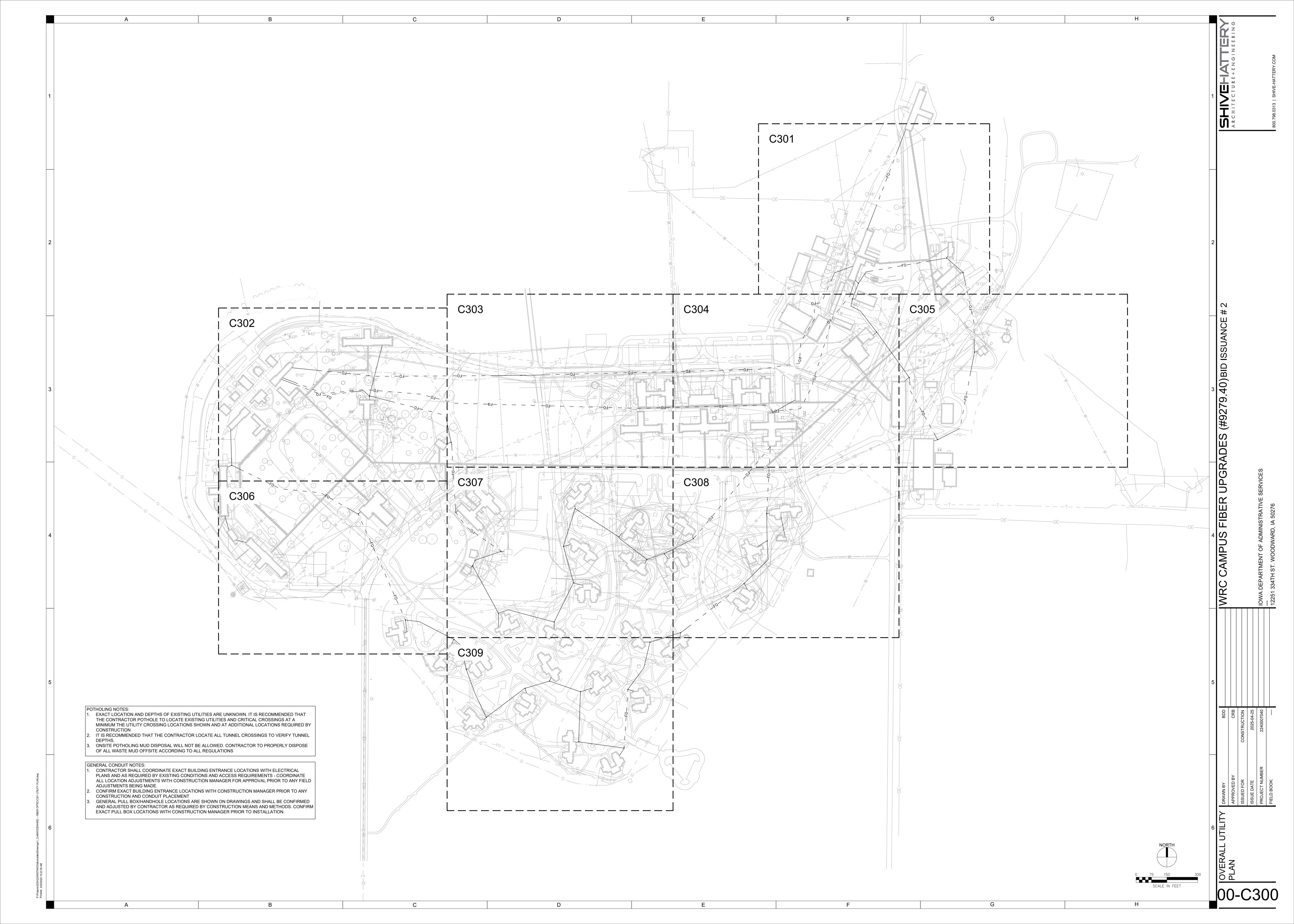
1. UNDER AND WITHIN FIVE (5) FEET OF PAVEMENT, SIDEWALKS, GRANULAR SURFACING, OR OTHER SURFACE IMPROVEMENTS SHALL BE COMPACTED TO A MINIMUM 95% OF MAXIMUM STANDARD PROCTOR DENSITY

2. UNDER LANDSCAPING AND LAWN AREAS SHALL BE COMPACTED TO A MINIMUM OF 90% OF MAXIMUM STANDARD PROCTOR DENSITY.

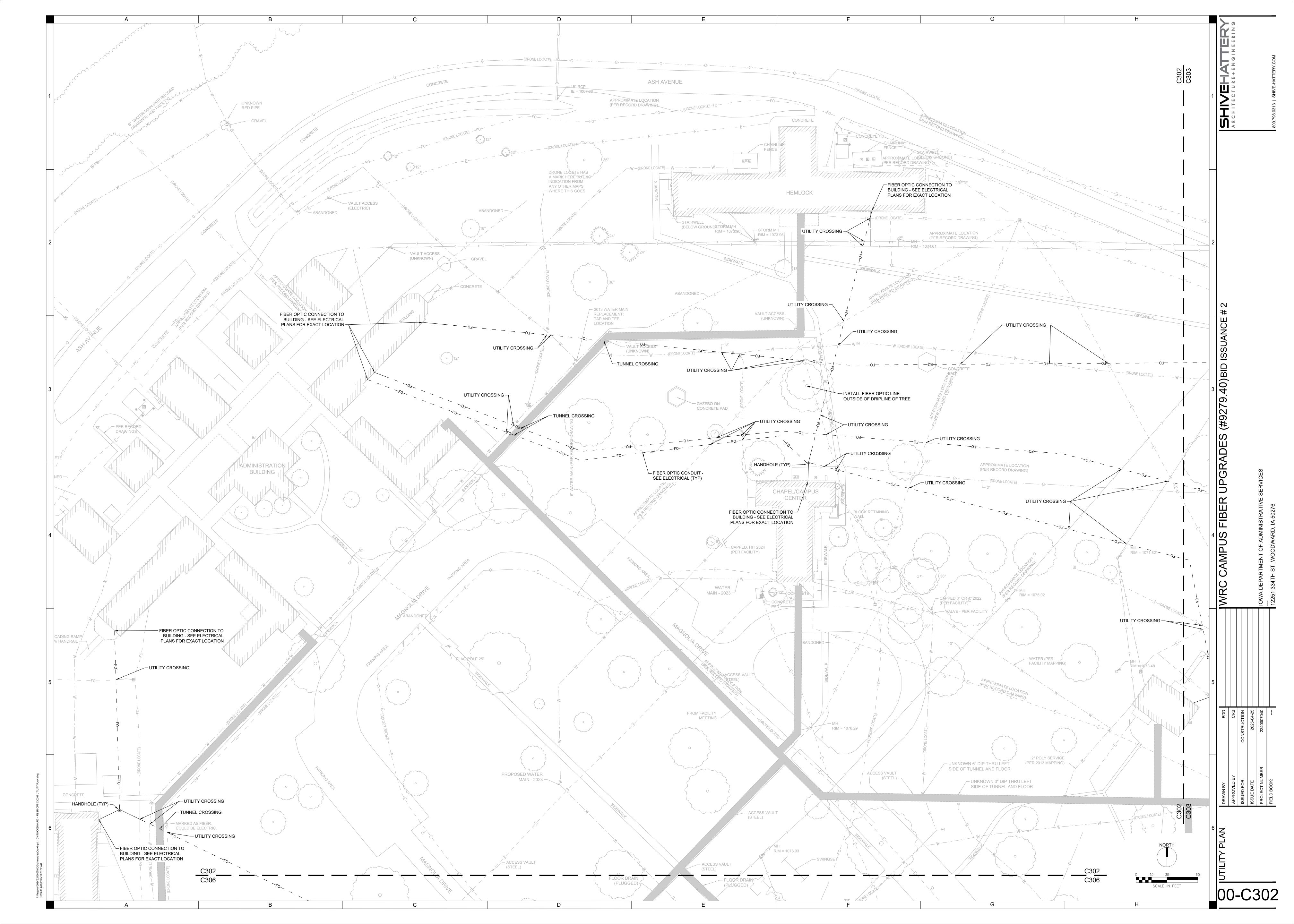
COMPACTION TESTING SHALL BE COMPLETED ON A FREQUENCY OF ONE TEST PER 100 LINEAR FEET AT APPROXIMATELY EVERY OTHER 8" LIFT OR AT ALTERNATIVE LOCATIONS AND FREQUENCIES AS RECOMMENDED BY TESTING AGENCY. COMPACTION TESTING TO BE DONE BY AN INDEPENDENT TESTING LABORATORY AND PAID FOR BY OWNER. CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL REQUIRED TESTING AND GEOTECHNICAL WORK WITH CONSTRUCTION MANAGER.

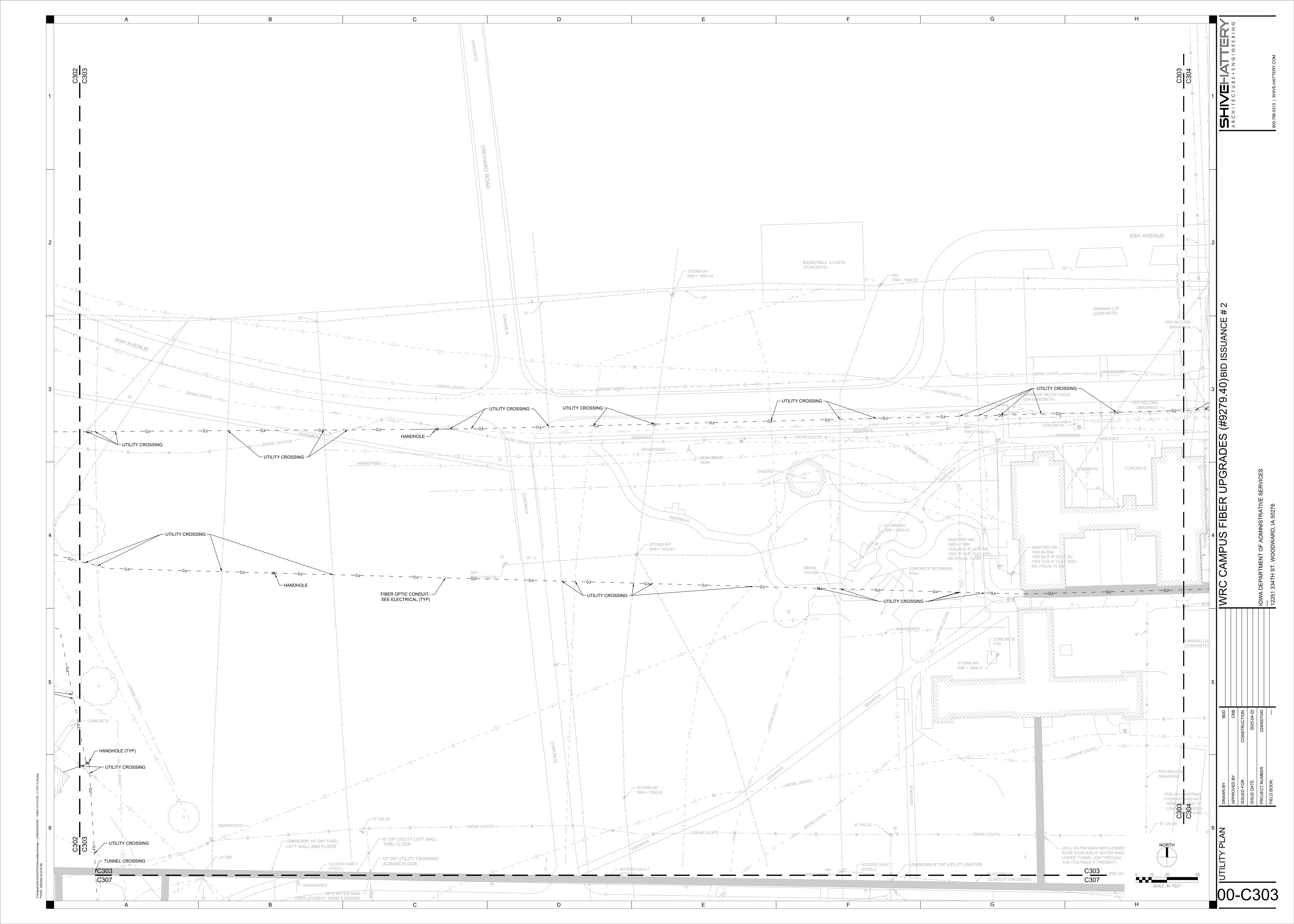
CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING WHICH MAYBE REQUIRED INCIDENTAL TO THE CONDUIT INSTALLATION.

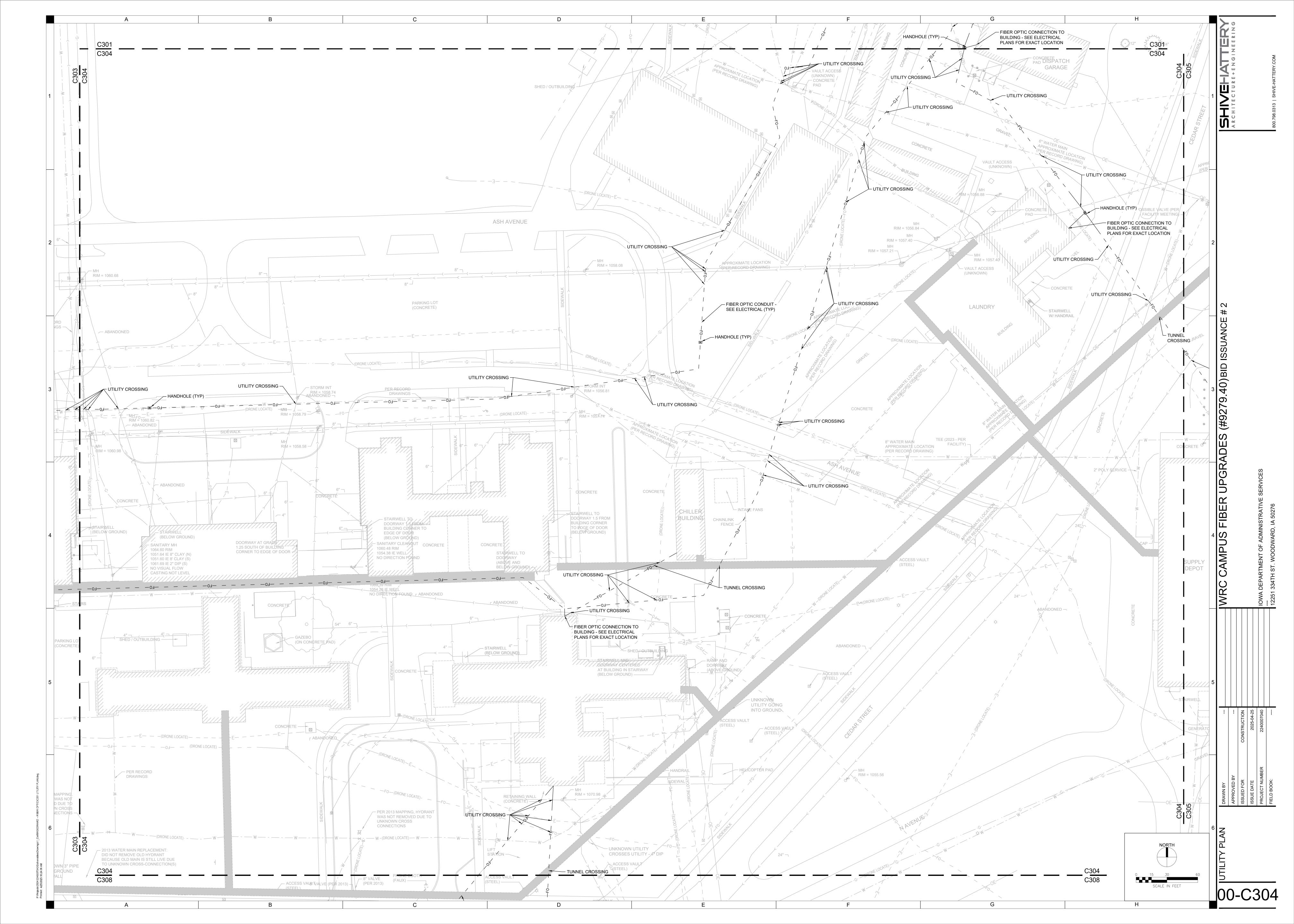
THE MOST RECENT EDITION OF THE IOWA STATEWIDE URBAN DESIGN SPECIFICATIONS FOR PUBLIC IMPROVEMENTS SHALL APPLY TO ALL WORK PERFORMED ON THIS PROJECT EXCEPT AS MODIFIED HEREIN

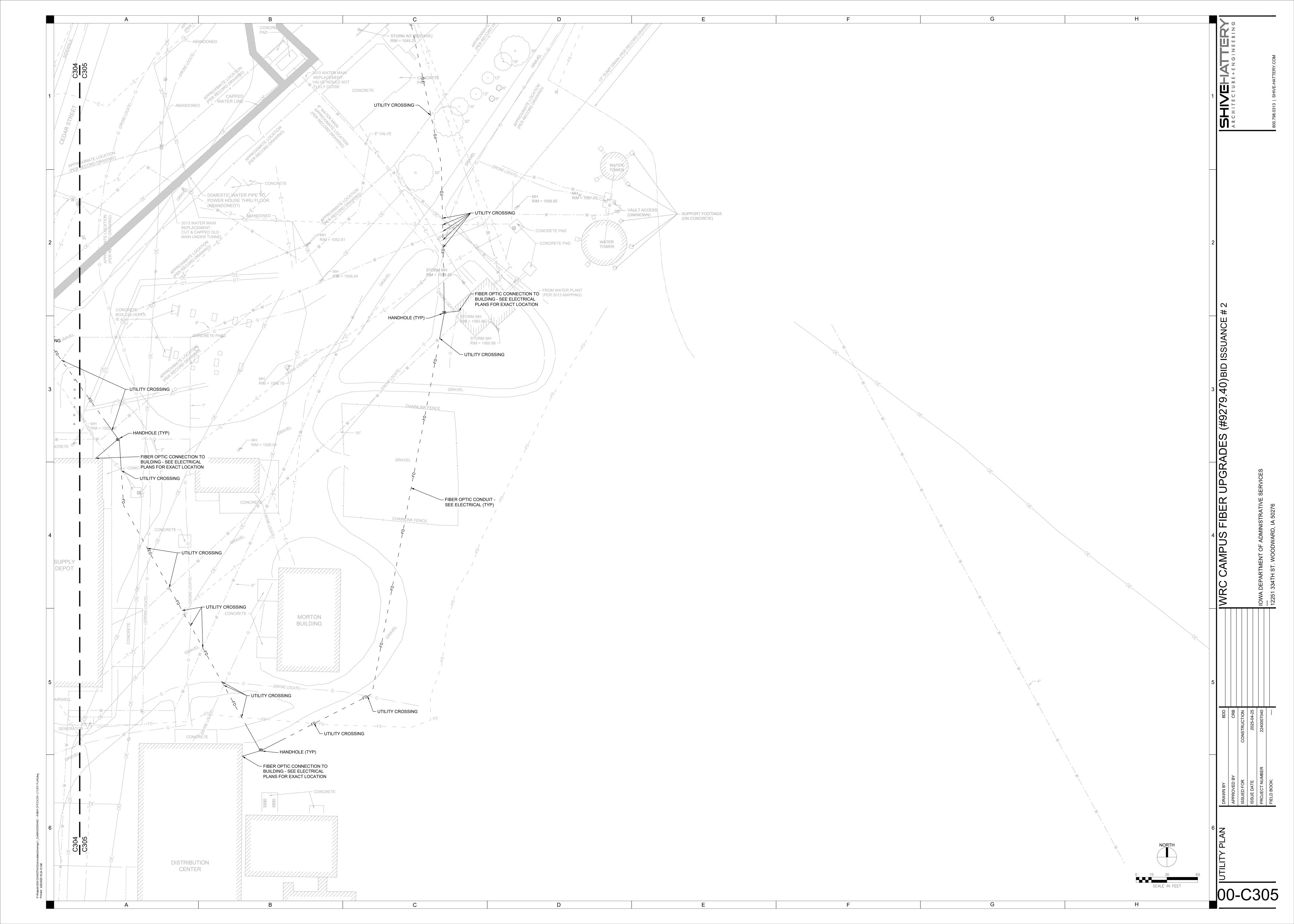


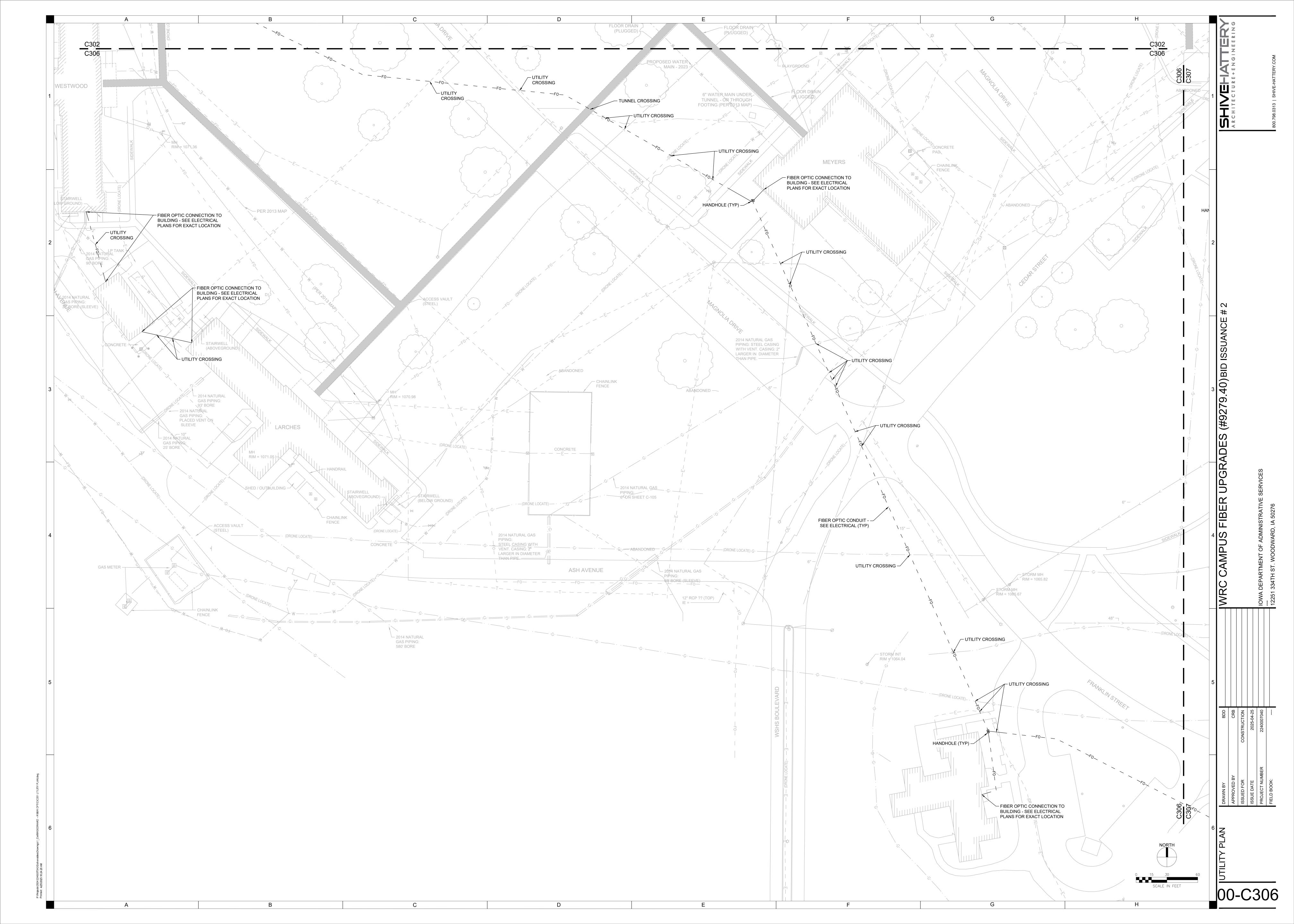




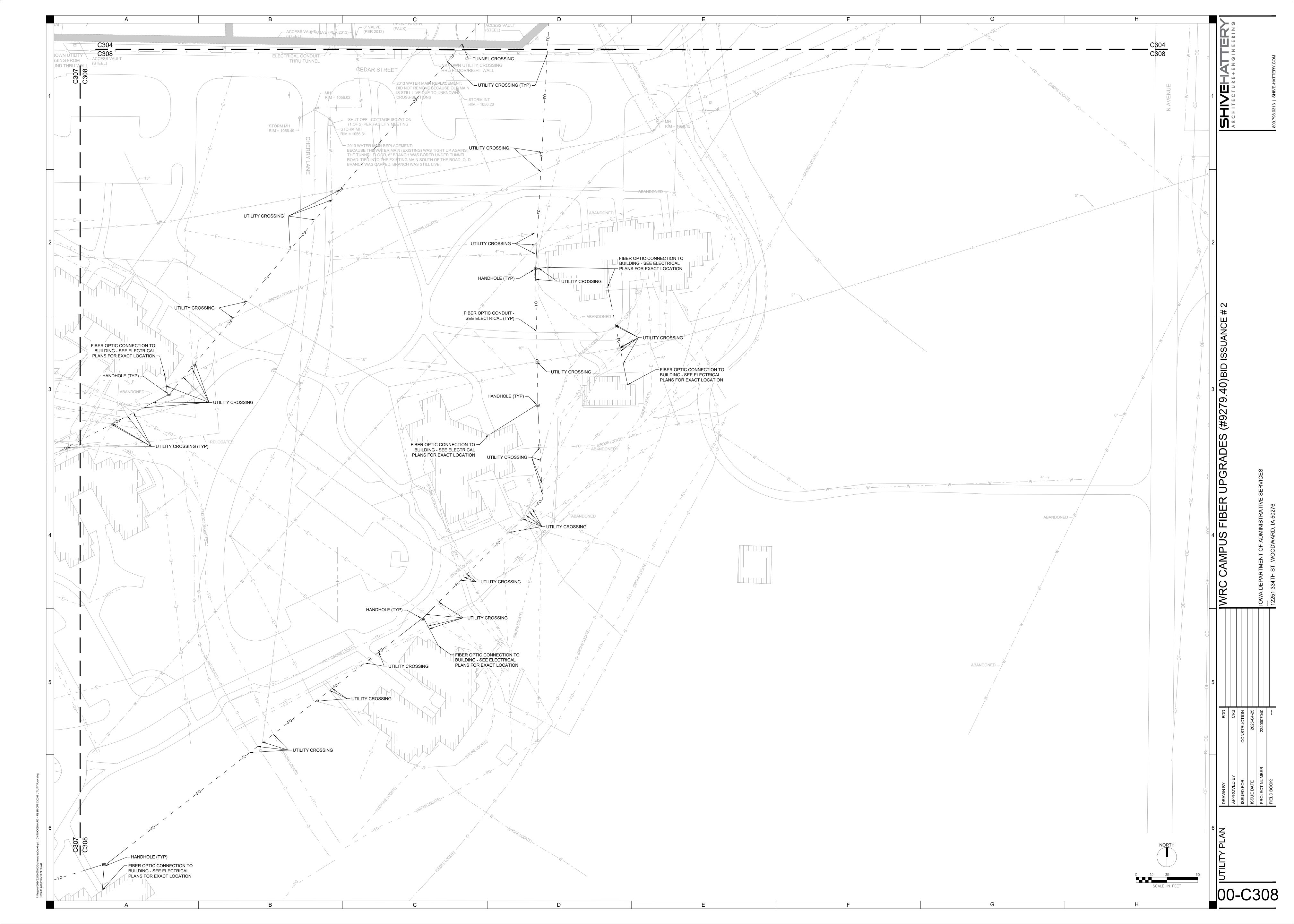


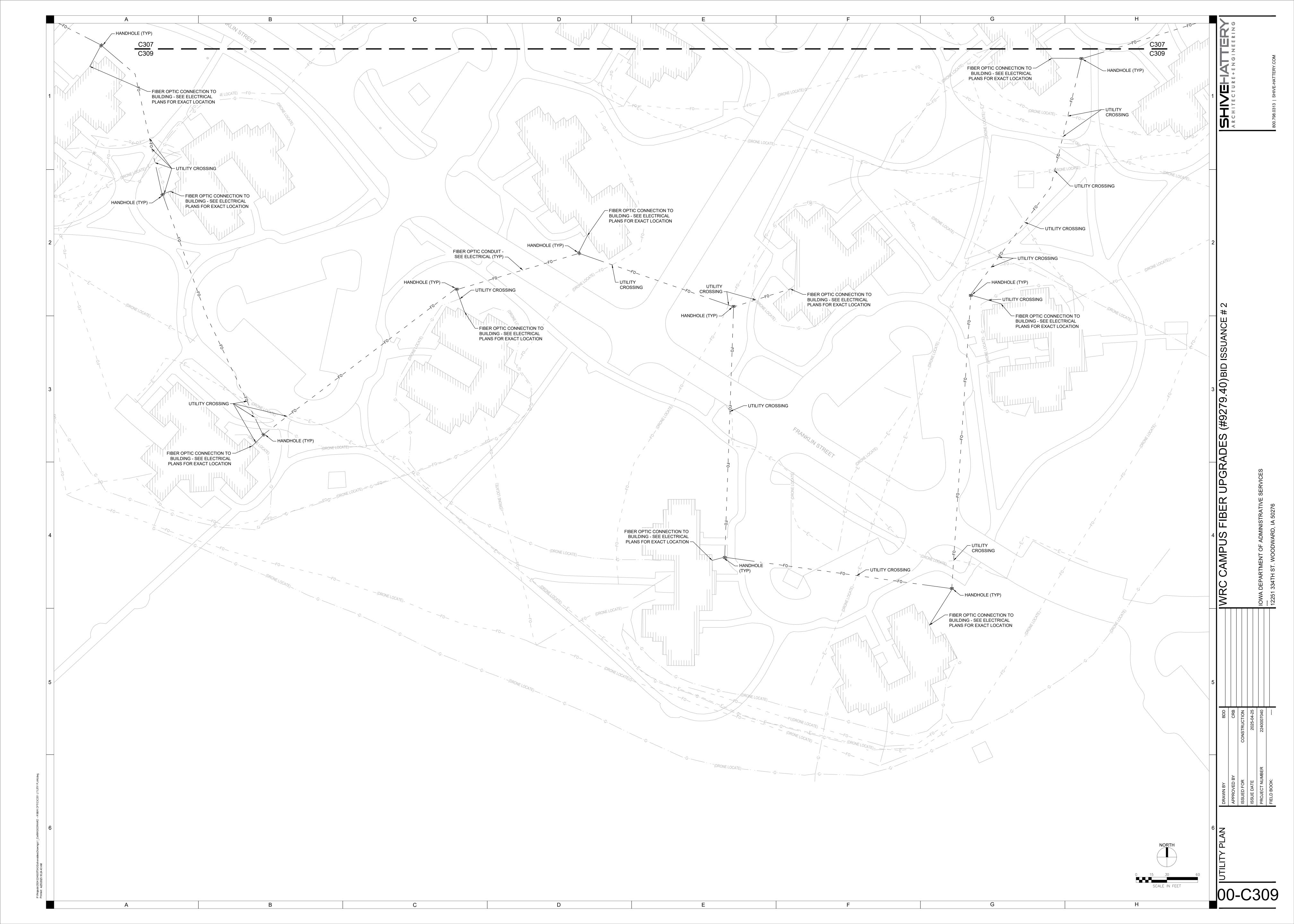


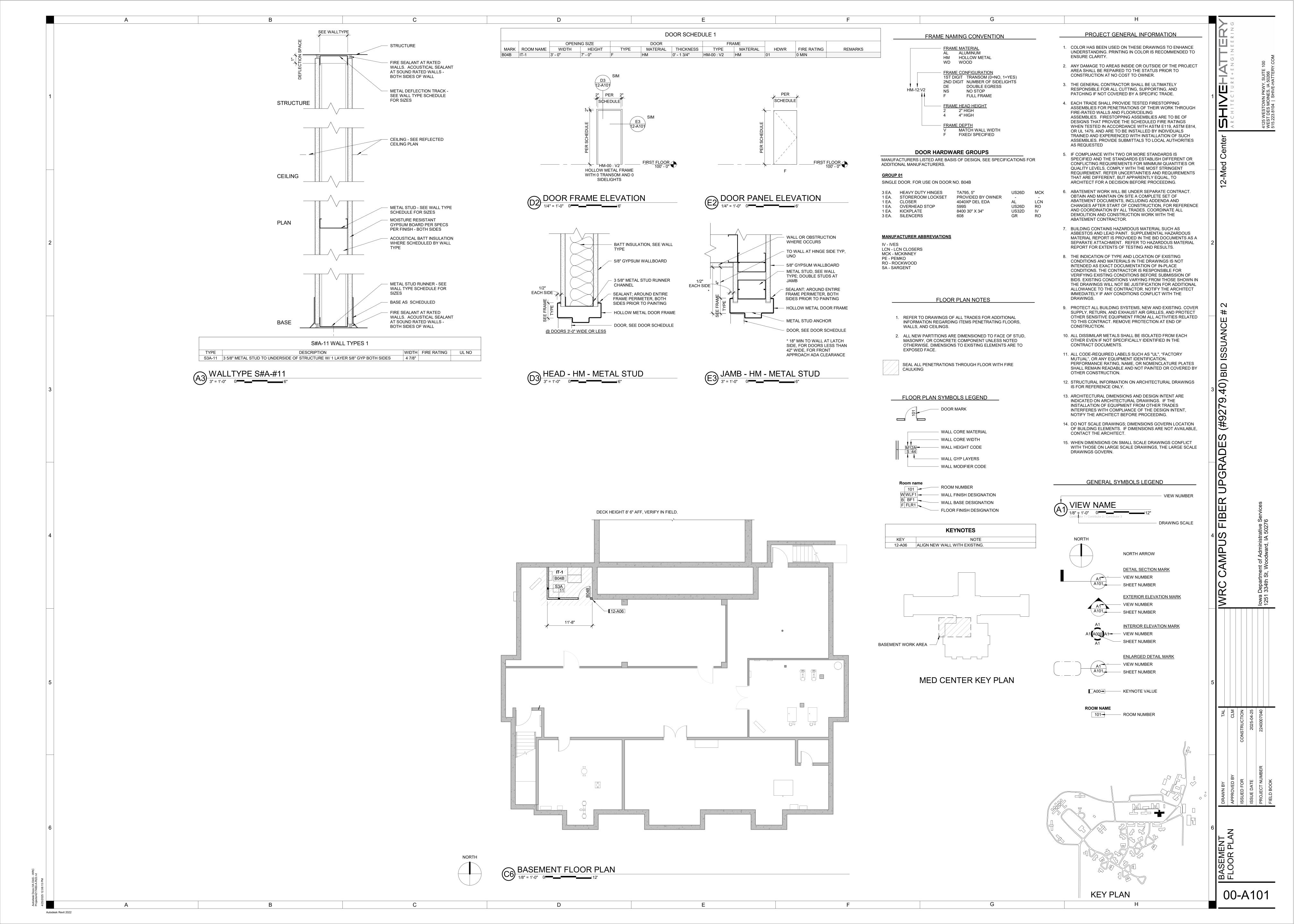












					ELECTRICAL	SYMBO	OL LEGI	END				
HT AFF	<u>SYMBOL</u>	DESCRIPTION	HT AFF	SYMBOL A	DESCRIPTION	HT AFF	SYMBOL	DESCRIPTION	HT AFF	SYMBOL	DESCRIPTION	
	\bigcirc x	SURFACE LIGHT (TYPE DENOTED)	18"	A	SURFACE RACEWAY (TYPE DENOTED)			CONDUIT CONCEALED IN WALL OR OVERHEAD		토	MANUAL PULL STATION (46" ABOVE FLOOP)
	⊘x	RECESSED LIGHT (TYPE DENOTED)		+ ⊕ A	CLOCK (TYPE DENOTED)			CONDUIT CONCEALED BELOW FLOOR		В	AUDIO NOTIFICATION DEVICE - CEILING MC B = BELL	UNTED
PER SCHED	⊢OX	WALL MOUNTED LIGHT (TYPE DENOTED)		P	POWER POLE (OPEN OFFICE STYLE)			CONDUIT TRANSITION UP			C = CHIME H = HORN	
PER SCHED	⊢ ⊲ → X	WALL MOUNTED FLOOD LIGHT (TYPE DENOTED)	40.110755	(E)	ELECTRICAL CONNECTION (SEE SCHEDULE)			CONDUIT TRANSITION DOWN CONDUIT STUBBED OUT			H = HOKN S = SPEAKER	
		SURFACE LIGHT (TYPE DENOTED)	AS NOTED	⊢⊕ ⊕	JUNCTION BOX					图	AUDIO NOTIFICATION DEVICE - CEILING MC 80" ABOVE FLOOR OR AS NOTED	UNTED
(SUSPENDED OR PENDANT LIGHT (TYPE DENOTED)	72"** 72"**		CIRCUIT BREAKER PANEL POWER OR DISTRIBUTION PANEL			BRANCH CIRCUIT HOME RUN			B = BELL	
		RECESSED LIGHT (TYPE DENOTED)	72"**		SPECIAL CABINET (TYPE DENOTED)			CABLE TRAY (TYPE DENOTED)			C = CHIME H = HORN	
PER SCHED	• - <> X	SITE POLE MOUNTED LIGHT (TYPE DENOTED)	''-		TRANSFORMER (TYPE DENOTED)	400444	E	CONDUIT SLEEVE (SIZE DENOTED)			S = SPEAKER VISUAL NOTIFICATION DEVICE - CEILING M	OUNTED
PER SCHED	O×	SITE BOLLARD LIGHT (TYPE DENOTED)			GENERATOR (KVA DENOTED)	48"***	₩W	WALL TELEPHONE OUTLET (TYPE DENOTED)		<u> </u>	VISUAL NOTIFICATION DEVICE - CEILING IN	
AS NOTED		TRACK AND TRACK LIGHT (TYPE DENOTED)		(1)/SF-1	MOTOR (SEE SCHEDULE)	18" UNO	4	TELEPHONE OUTLET (TYPE DENOTED)		Ŷ	80" ABOVE FLOOR OR AS NOTED	NIED
96"	₹ EM	EMERGENCY BATTER LIGHT (TYPE DENOTED)		M ++++	MOTORIZED DAMPER	18" UNO	∢x	DATA OUTLET (INDICATED QTY CABLES)		%	AUDIO/VISUAL NOTIFICATION DEVICE - B = BELL	CEILING MOUNTF
	⊬ ⊕ E © E	EXIT SIGN (TYPE DENOTED)	72"**		SAFETY DISCONNECTION SWITCH	18" UNO	•	VOICE/DATA OUTLET (TYPE DENOTED)			C = CHIME	
AS NOTED	H2	LIGHT FIXTURE ON EMERGENCY CIRCUIT	/2	ASD	ADJUSTABLE SPEED DRIVE		×	WIRELESS ACCESS POINT			H = HORN S = SPEAKER	
			72"**	R	RELAY	18" UNO	HTV	TELEVISION OUTLET		%	AUDIO/VISUAL NOTIFICATION DEVICE - WA	I MOUNTED
	(1)	LIGHTING CONTROL DENOTATION	/2	©S IR	OCCUPANCY SENSOR (TYPE DENOTED)		TV	CEILING MOUNTED TELEVISION OUTLET		4	80" ABOVE FLOOR OR AS NOTED B = BELL	L MOONTED
48"	\$ *3	SINGLE POLE SWITCH		(S) A	LIGHT LEVEL SENSOR (TYPE DENOTED)	84"	HS S	SPEAKER (WALL OR CEILING MOUNT)			C = CHIME	
48"	\$ ⁰	3-WAY SWITCH	AS NOTED	₩.	PHOTOCELL	84"	HS\1 S\1	HORN TYPE SPEAKER			H = HORN S = SPEAKER	
48"	\$ [∓] ¢K	4-WAY SWITCH KEYED SWITCH	AS NOTED		CCTV CAMERA (TYPE DENOTED)		©	SURFACE MOUNT SPEAKER SUSPENDED FROM CEILING	72"**		FIRE ALARM REMOTE ANNUNCIATOR	
48"	\$'` _{\$} D		ASNOTED	1	·	60"	+ P	NURSE CALL SINGLE PATIENT STATION	72"**	FA ANNUN FACP	FIRE ALARM CONTROL PANEL	
48"	_{\$} OS	DIMMER SWITCH	40"	SM _{rt} V	SURVEILLANCE MONITOR	60"	+3>	37 PIN BED INTERFACE RECEPTACLE	72"**		FIRE ALARM RELAY PANEL	
48"	\$ ^{MS}	OCCUPANCY SENSOR SWITCH	48"	\$.	VOLUME CONTROL	60"	+	AUXILIARY ALARM STATION, TWO JACK	8"***	FARP		
48" 48"	ş™S ¢T	MOMENTARY CONTACT SWITCH TIMER SWITCH	48"	+(C)	INTERCOM STATION	36" UNO	+€	EMERGENCY PULL CORD STATION	8""""	+② _P ② _P	SMOKE DETECTOR (TYPE DENOTED)	
48"	\$SP	FAN SPEED CONTROL		ICM ■ E#	INTERCOM MASTER	60"	+	STAFF TERMINAL, TOUCHSCREEN		⊢ ⊕	HEAT DETECTOR (TYPE AND TEMP DENOT	≟D)
48"	\$ ^M	MOTOR HORSEPOWER RATED SWITCH		E#	KEYED NOTE (SEE SCHEDULE)	60"	+0>	DUTY STATION		€—	LINEAR HEAT DETECTOR	
48"	⊢●	PUSH BUTTON		FS	SPRINKLER FLOW SWITCH	60"	+\$	NURSE CALL STAFF STATION		— ҈ Р	DUCT SMOKE DETECTOR (TYPE DENOTED	r.
48"	●UC	DURESS PUSH BUTTON, UNDER COUNTER		TS	SPRINKLER VALVE TAMPER SWITCH	60"	+\$	STAFF ASSIST		DH	DOOR HOLDER	
18" UNO	Ж	DUPLEX RECEPTACLE		CT	CONTACT SENSING CONTROL MODULE	48"	+\B	CODE BLUE STATION		СН	DOOR CLOSER/HOLD OPEN	
18" UNO	₩	FOURPLEX RECEPTACLE		CR	RELAY OUTPUT CONTROL MODULE	12"*	HQ ₁ QQ ₁	NURSE CALL DOME LIGHT		DR	SMOKE DAMPER RELEASE	
10 0110	₩					48"***	NCM	NURSE CALL MASTER STATION		FR	FIRE ALARM SHUT DOWN RELAY	
	FB ₁	FLOOR BOX (TYPE DENOTED)				48"***	NCC	NURSE CALL EQUIPMENT CABINET				
	Ф clg	CEILING MOUNTED DUPLEX RECEPTACLE				72"***	NC ANNUN	NURSE CALL ANNUNCIATOR PANEL				
ALL DISTANCES	ARE TO CENTER O	F DEVICE OR EQUIPMENT UNLESS OTHERWISE NOTED. DE ** DISTANCE TO TOP OF EQUIPMENT OR DEVICE			E INSTALLED WITH ANY OPERABLE PART HIGHER THA ST OPERABLE POINT OF EQUIPMENT **** DIS	N 48". DEVICES N	MAY BE INSTALLED	IN CONCRETE MASONRY UNITS WITH THE TOP OF THE DEVICE AT	Γ 48".			

						<u> </u>			
			ELECTRIC <i>E</i>	AL A	BBREVIATI	ONS	S LIST		
o	1 POLE (2P, 3P, 4P, ETC.)	DCP	DOMESTIC WATER CIRCULATING PUMP	HT HTG	HEIGHT HEATING	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S	SYM	SWITCHBOARD SYMMETRICAL
	AMPERE		DEPARTMENT	HTR	HEATER		ASSOCIATION		SYSTEM
;	ABOVE COUNTER	DET	DETAIL	HV	HIGH VOLTAGE	NFDS	NON-FUSED SAFETY	TEL (DATA	TELEPHONE
LG O	ABOVE CEILING AUTOMATIC DOOR OPENER	DIA DISC	DIAMETER DISCONNECT	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	NIC	DISCONNECT SWITCH NOT IN CONTRACT	TEL/DATA TERM	TELEPHONE/DATA TERMINAL
O	AMP FRAME		DISTRIBUTION	HWP	HYDRONIC WATER PUMP	NL NL	NIGHT LIGHT	TL	TWIST LOCK
F	ABOVE FINISHED FLOOR	DN.	DOWN		THERONIO WATERTOWN	N.O.	NORMALLY OPEN	TR	TAMPER RESISTANT
G	ABOVE FINISHED GRADE	DPR	DAMPER	IC	INTERRUPTING CAPACITY	NPF	NORMAL POWER FACTOR	T-STAT	THERMOSTAT
l	ARC FAULT CIRCUIT	DS	SAFETY DISCONNECT SWITCH	IG	ISOLATED GROUND	NTS	NOT TO SCALE	TTC	TELEPHONE TERMINAL
	INTERRUPTER	DT	DOUBLE THROW	IMC	INTERMEDIATE METAL CONDUIT		0.4554.545		CABINET
IU	AIR HANDLING UNIT ALUMINUM	DWG	DRAWING		INCANDESCENT INFRARED	OH OL	OVERHEAD OVERLOADS	TV TVTC	TELEVISION TELEVISION TERMINAL
Т	ALTERNATE	EC	ELECTRICAL CONTRACTOR	IR I/W	INTERLOCK WITH	OL	OVERLOADS	IVIC	CABINET
' 1P	AMPERE		ELECTRIC, ELECTRICAL	I/ V V	INTEREOOR WITH	PA	PUBLIC ADDRESS	TYP	TYPICAL
 1PL	AMPLIFIER		ELEVATOR	J-BOX	JUNCTION BOX	PB	PULL BOX OR PUSHBUTTON		
NUN	ANNUNCIATOR	EM	EMERGENCY			PE	PNEUMATIC ELECTRIC	UC	UNDER COUNTER
	APPROXIMATELY	EMS	ENERGY MANAGEMENT SYSTEM		KILOVOLT	PED	PEDESTAL	UE	UNDERGROUND ELECTRICA
-STAT	AQUASTAT	EMT	ELECTRICAL METALLIC TUBING	KVA	KILOVOLT-AMPERE	PF	POWER FACTOR	UG	UNDERGROUND
CH	ARCHITECT, ARCHITECTURAL AMP SWITCH	EP EOLIIB	ELECTRIC PNEUMATIC EQUIPMENT	KVAR KW	KILOVOLT-AMPERE REACTIVE KILOWATT	PH PIV	PHASE POST INDICATING VALVE	UH UNO	UNIT HEATER UNLESS NOTED OTHERWISE
	AMP TRIP	EWC	ELECTRIC WATER COOLER	KWH	KILOWATT KILOWATT HOUR	PNL	PANEL	UT	UNDERGROUND TELEPHONE
S			EXISTING	174411	RECWATTROOM	PP	POWER POLE	UTIL	UTILITY
ITO	AUTOMATIC	EXH	EXHAUST	LOC	LOCATE OR LOCATION	PR	PAIR	UV	UNIT VENTILATOR OR
ΙX	AUXILIARY	EXP	EXPLOSION PROOF	LT	LIGHT	PRI	PRIMARY		ULTRAVIOLET
	AUDIO VISUAL		FIDE ALABA	LTG	LIGHTING	PROJ	PROJECTION		
VG	AMERICAN WIRE GAUGE	FA FABP	FIRE ALARM FIRE ALARM BOOSTER POWER	LTNG LV	LIGHTNING LOW VOLTAGE	PRV	POWER ROOF VENTILATOR	V VA	VOLT
TT	BATTERY	FADF	SUPPLY PANEL	LV	LOW VOLTAGE	PT PVC	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE	VA VDT	VOLT-AMPERES VIDEO DISPLAY TERMINAL
)	BOARD	FACP	FIRE ALARM CONTROL PANEL	MAX	MAXIMUM	1 00	(CONDUIT)	VERT	VERTICAL
.DG	BUILDING	FCU	FAN COIL UNIT	MAG.S	MAGNETIC STARTER	PWR	POWER	VFD	VARIABLE FREQUENCY DRIV
1S	BUILDING MANAGEMENT		FIXTURE	M/C	MOMENTARY CONTACT			VOL	VOLUME
	SYSTEM	FLR	FLOOR	MC	MECHANICAL CONTRACTOR	QUAN	QUANTITY		
			FLUORESCENT	MCB	MAIN CIRCUIT BREAKER			W	WATT
_	CONDUIT	FU	FUSE	MCC	MOTOR CONTROL CENTER	RCPT	RECEPTACLE	W/	WITH
λB λΤ	CABINET CATALOG	FUDS	FUSED SAFETY DISCONNECT SWITCH	MDC MDP	MAIN DISTRIBUTION CENTER MAIN DISTRIBUTION PANEL	REQD RM	REQUIRED ROOM	WG WH	WIRE GUARD WATER HEATER
ATV	CABLE TELEVISION		SWITCH	MFR	MANUFACTURER	RSC	RIGID STEEL CONDUIT	W/O	WITHOUT
3	CIRCUIT BREAKER	GA	GAUGE	MFS	MAIN FUSED DISCONNECT	RTU	ROOF TOP UNIT	WP	WEATHERPROOF
CTV	CLOSED CIRCUIT TELEVISION	GAL	GALLON		SWITCH				
T	CIRCUIT	GALV	GALVANIZED	MH	MANHOLE	SC	SURFACE CONDUIT	XFMR	TRANSFORMER
.G DMB	CEILING	GC	GENERAL CONTRACTOR	MIC	MICROPHONE	SEC	SECONDARY	XFR	TRANSFER
IPR	COMBINATION COMPRESSOR	GEN GFI	GENERATOR GROUND FAULT CIRCUIT	MIN MISC	MINIMUM MISCELLANEOUS	SHT SIM	SHEET SIMILAR		
NN	CONNECTION	GI I	INTERRUPTER	MLO	MAIN LUGS ONLY	S/N	SOLID NEUTRAL		
NST	CONSTRUCTION	GFP	GROUND FAULT PROTECTOR	MMS	MANUAL MOTOR STARTER	SPEC	SPECIFICATION		41101.5
DNT	CONTINUATION OR	GND	GROUND	MOA	MULTIOUTLET ASSEMBLY	SPKR	SPEAKER	<u>~</u>	ANGLE AT
	CONTINUOUS	GRS	GALVANIZED RIGID STEEL	MSP			SPARE	@ 	DELTA
NTR	CONTRACTOR	01/0 00	(CONDUIT)	MSBD	MAIN SWITCHBOARD	SR	SURFACE RACEWAY	-	FEET
)NV	CONVECTOR CIRCULATING PUMP	GYPBD	GYPSUM BOARD	MT MT.C	MOUNT EMPTY CONDUIT	SS SSW	STAINLESS STEEL SELECTOR SWITCH	"	INCHES
, RT	CATHODE-RAY TUBE	HOA	HANDS-OFF-AUTOMATIC	MTS	MANUAL TRANSFER SWITCH	SSVV S/S	STOP/START PUSHBUTTONS	#	NUMBER
	CURRENT TRANSFORMER	IIOA	SWITCH	MTR	MOTOR, MOTORIZED	STA	STATION	Ø	PHASE
· ΓR	CENTER	HORIZ	HORIZONTAL			STD	STANDARD	Ç	CENTER LINE PLATE
								P	

SYSTEMS GENERAL NOTES

- 1. INSTALL CONDUIT WITH NO MORE THAN (2) 90° BENDS BETWEEN PULL BOXES, AND NO MORE THAN 100'-0" BETWEEN PULL BOXES. PULL BOXES SHALL BE INSTALLED FOR STRAIGHT THRU PULLS ONLY.
- 2. ALL COMMUNICATIONS CABLES SHALL BE INSTALLED IN CONDUIT, CABLE TRAY, OR SUPPORTED BY CABLE HOOKS. PROVIDE BUSHINGS AT THE ENDS OF ALL CONDUIT WHERE STUBBED ABOVE ACCESSIBLE CEILINGS OR WHERE DROPPED INTO CABLE TRAY. PROVIDE CABLE HOOKS ABOVE ACCESSIBLE CEILINGS FOR CABLE INSTALLATION WHERE NOT INSTALLED IN CONDUIT OR CABLE TRAY.

ELECTRICAL GENERAL NOTES

OPERATIONAL SYSTEM.

- 1. ALL WORK SHALL BE IN CONFORMANCE WITH THE NATIONAL ELECTRICAL CODE - LATEST EDITION ADOPTED BY THE STATE, THE STATE AMENDMENTS, LOCAL/MUNICIPAL CODES AND ORDINANCES, AND THE AUTHORITY HAVING JURISDICTION. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADAAG (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES).
- 2. IT IS THE INTENT OF THESE DOCUMENTS TO COMPLY WITH THE APPLICABLE CODES. WHERE DISCREPANCIES OCCUR, NOTIFY THE ENGINEER/ARCHITECT IN WRITING FOR INTERPRETATION. CORRECT ANY INSTALLATION THAT FAILS TO COMPLY WITH THE
- CODES AND STANDARDS AT NO ADDITIONAL COST TO THE 3. CONTRACTOR SHALL PROVIDE ALL WORK NECESSARY INCLUDING ALL LABOR, MATERIALS, PERMITS, TAXES, FEES, INSPECTIONS,

HARDWARE, AND COST FOR INSTALLATION FOR A COMPLETE AND

- 4. ALL MATERIALS FURNISHED BY THE CONTRACTOR SHALL BE NEW, COMPLETE WITH MANUFACTURER'S GUARANTEE OR WARRANTY AND SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL).
- 5. COORDINATE ELECTRICAL INSTALLATION WITH ALL TRADES PRIOR TO INSTALLATION. IF ELECTRICAL WORK INSTALLED INTERFERES WITH OTHER TRADES AFTER INSTALLATION, THE CONTRACTOR SHALL MAKE ALL NECESSARY CHANGES TO CORRECT THE CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- 6. DRAWINGS ARE DIAGRAMMATIC. ALL DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION THIS CONTRACTOR SHALL ADJUST CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
- 7. ALL ELECTRICAL PANELS WITH ANY BRANCH CIRCUIT/LOAD REVISIONS (DEMOLITION OR NEW WORK) SHALL HAVE A NEW TYPED UPDATED CIRCUIT DIRECTORY CARD INSTALLED INSIDE THE DOOR OF THE ELECTRICAL PANEL. THE CONTRACTOR SHALL VERIFY THAT ALL UNUSED CIRCUIT BREAKERS ARE TURNED 'OFF' AND PROPERLY INDICATED AS 'SPARE' ON THE NEW CIRCUIT DIRECTORY CARD. THE CONTRACTOR SHALL INSTALL FILLER PLATES WHERE BREAKERS ARE REMOVED AS PART OF THIS PROJECT OR HAVE BEEN REMOVED PREVIOUSLY.
- 8. NO ENERGIZED CONDUCTORS SHALL BE EXPOSED AT ANYTIME EXCEPT WHEN THE IMMEDIATE AREA IS UNDER THE SUPERVISION OF A QUALIFIED ELECTRICIAN.
- 9. WHERE CONDUIT IS SURFACE MOUNTED TO A WALL AND RUN VERTICALLY DOWN TO A SWITCH/OUTLET BOX, UTILIZE 1-HOLE OR 2-HOLE CONDUIT STRAPS.
- 10. PENETRATIONS THROUGH WALLS BY DIVISION 26 CONTRACTOR SHALL BE SEALED WITH APPROPRIATE FIRE PROOFING MATERIAL ALL WALL PENETRATIONS TO BE BE SEALED WITH FIRE CAULKING.

11. THE CONTRACTOR SHALL KEEP THE WORK AREA CLEAN OF ALL DEBRIS ON A DAILY BASIS. ALL NEW MATERIALS AWAITING INSTALLATION SHALL BE KEPT IN AREAS DESIGNATED BY THE

OWNER. 12. THESE DRAWINGS SHALL NOT BE SCALED TO OBTAIN DIMENSIONS. REFER TO DIMENSIONED ARCHITECTURAL FLOOR PLANS. IF THE DIMENSIONS CANNOT BE DETERMINED BY THE

ENGINEER FOR ADDITIONAL INFORMATION.

INFORMATION GIVEN, CONTRACTOR SHALL CONTACT THE

- 13. PERIODIC SITE OBSERVATION BY THE ENGINEER IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF THE WORK, BUT RATHER PERIODIC IN AN EFFORT TO GUARD THE OWNER AGAINST DEFECTS OR DEFICIENCIES IN THE WORK OF THE CONTRACTOR.
- 14. THE INFORMATION CONTAINED ON THE ELECTRICAL DRAWINGS IS IN ITSELF INCOMPLETE AND VOID UNLESS USED IN CONJUNCTION WITH ALL OTHER DISCIPLINE DRAWINGS, THE SPECIFICATIONS, TRADE PRACTICES, OR APPLICABLE STANDARDS, CODES, ETC., AND SHALL BE CONSIDERED THE CONTRACT DOCUMENTS AND WITH ALL THEREIN BY REFERENCE, WHICH THE CONTRACTOR CERTIFIES KNOWLEDGE OF BY SIGNING THE CONTRACT.
- 15. CONTRACTOR IS TO ASSUME FULL RESPONSIBILITY, UNRELIEVED BY REVIEW OF SHOP DRAWINGS OR PERIODIC OBSERVATION OF CONSTRUCTION, FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS, FOR DIMENSIONS TO BE CONFIRMED AND CORRELATED ON THE JOB SITE AND BETWEEN INDIVIDUAL DRAWINGS OR SETS OF DRAWINGS FOR FABRICATION PROCESSES AND CONSTRUCTION TECHNIQUES (INCLUDING EXCAVATION, SHORING, SCAFFOLDING, BRACING, ERECTION, FORM WORK, ETC.), FOR COORDINATION OF THE VARIOUS TRADES, AND FOR SAFE CONDITIONS ON THE JOB SITE. VARIATIONS IN FIELD CONDITIONS RELATIVE TO THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ENGINEER AS SOON AS THEY ARE FOUND. WORK SHALL NOT PROGRESS UNTIL

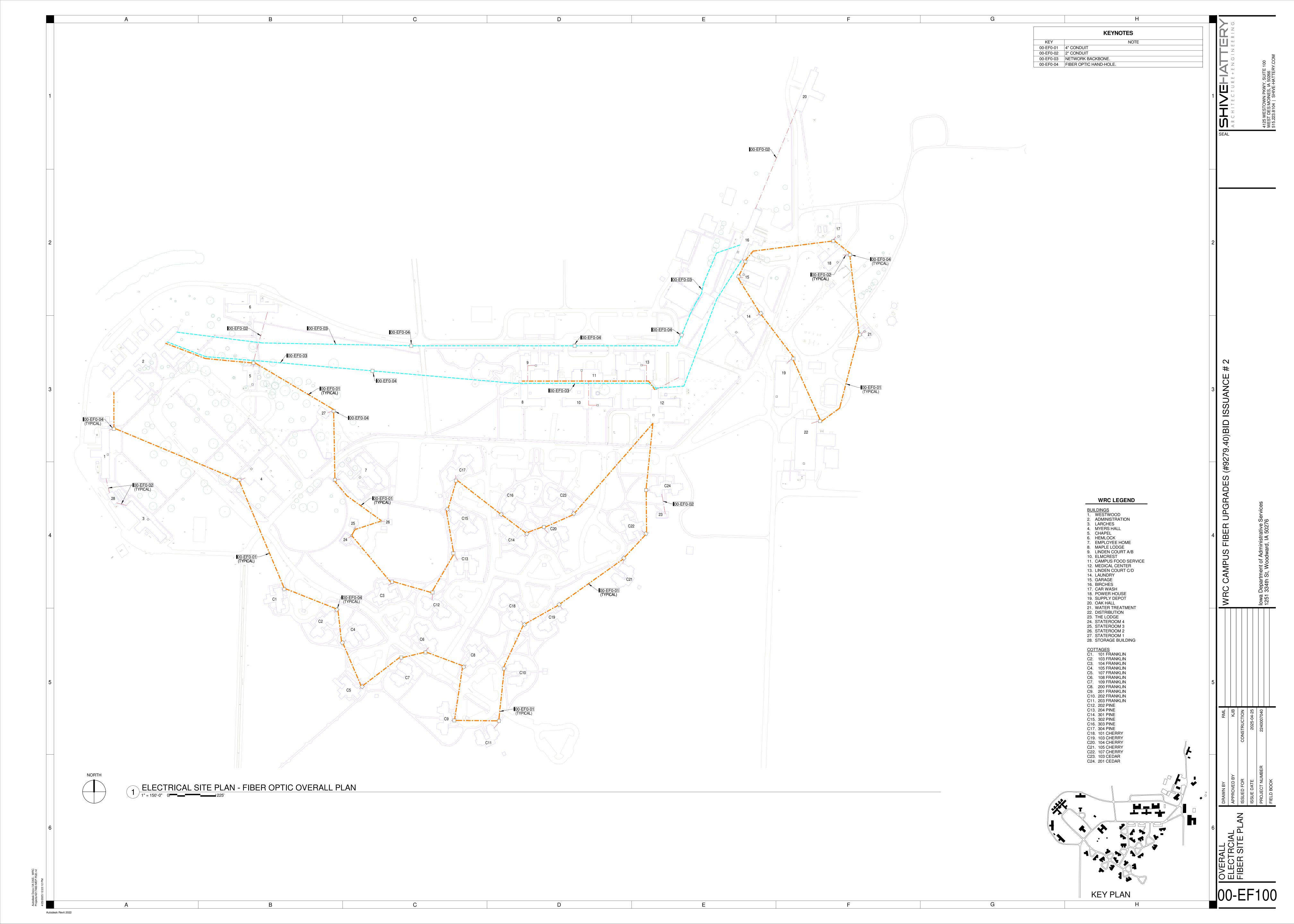
WRITTEN PERMISSION FROM THE ENGINEER IS OBTAINED.

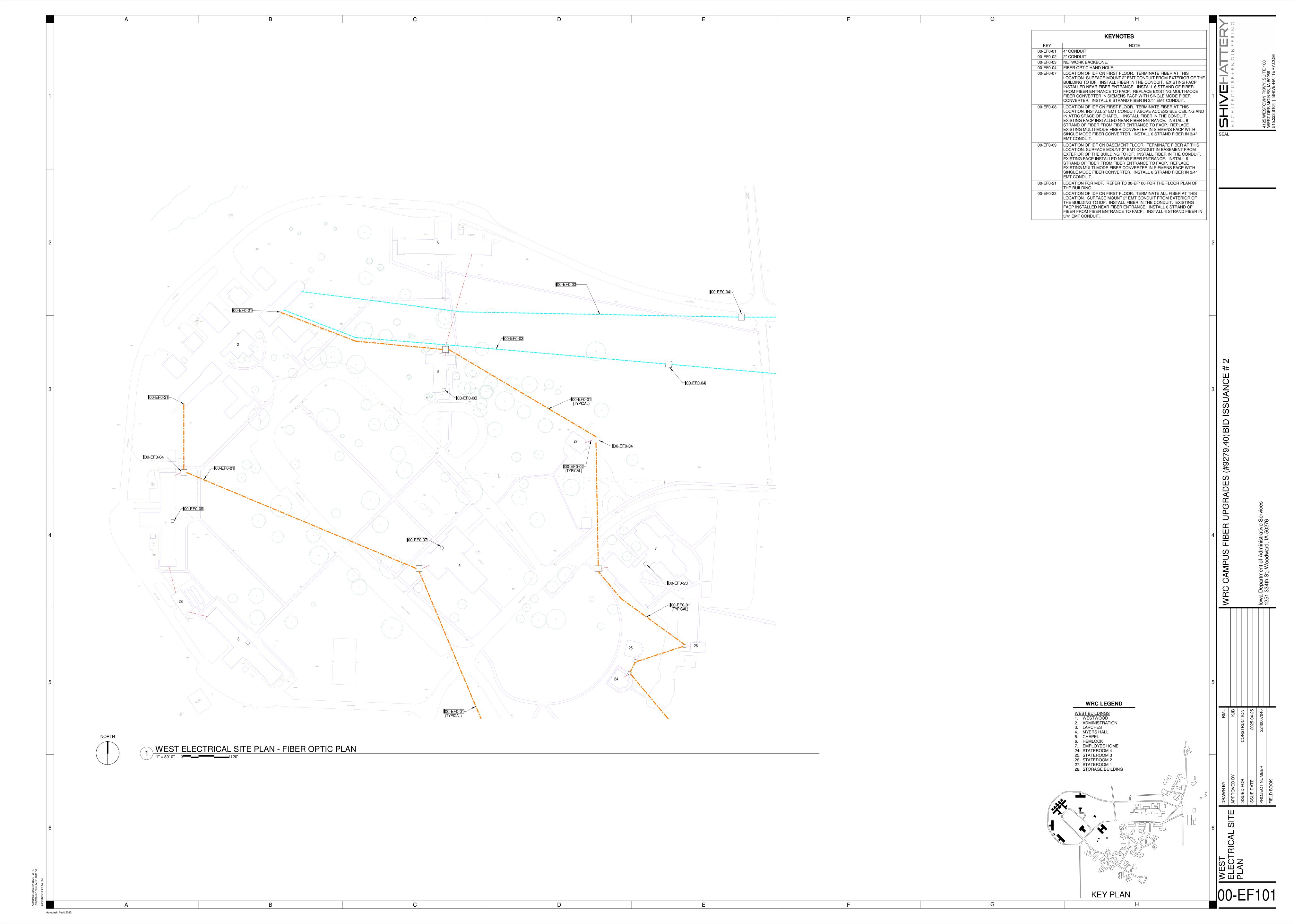
16. INSTALL CONDUITS AT MINIMUM OF 24" DEPTH.

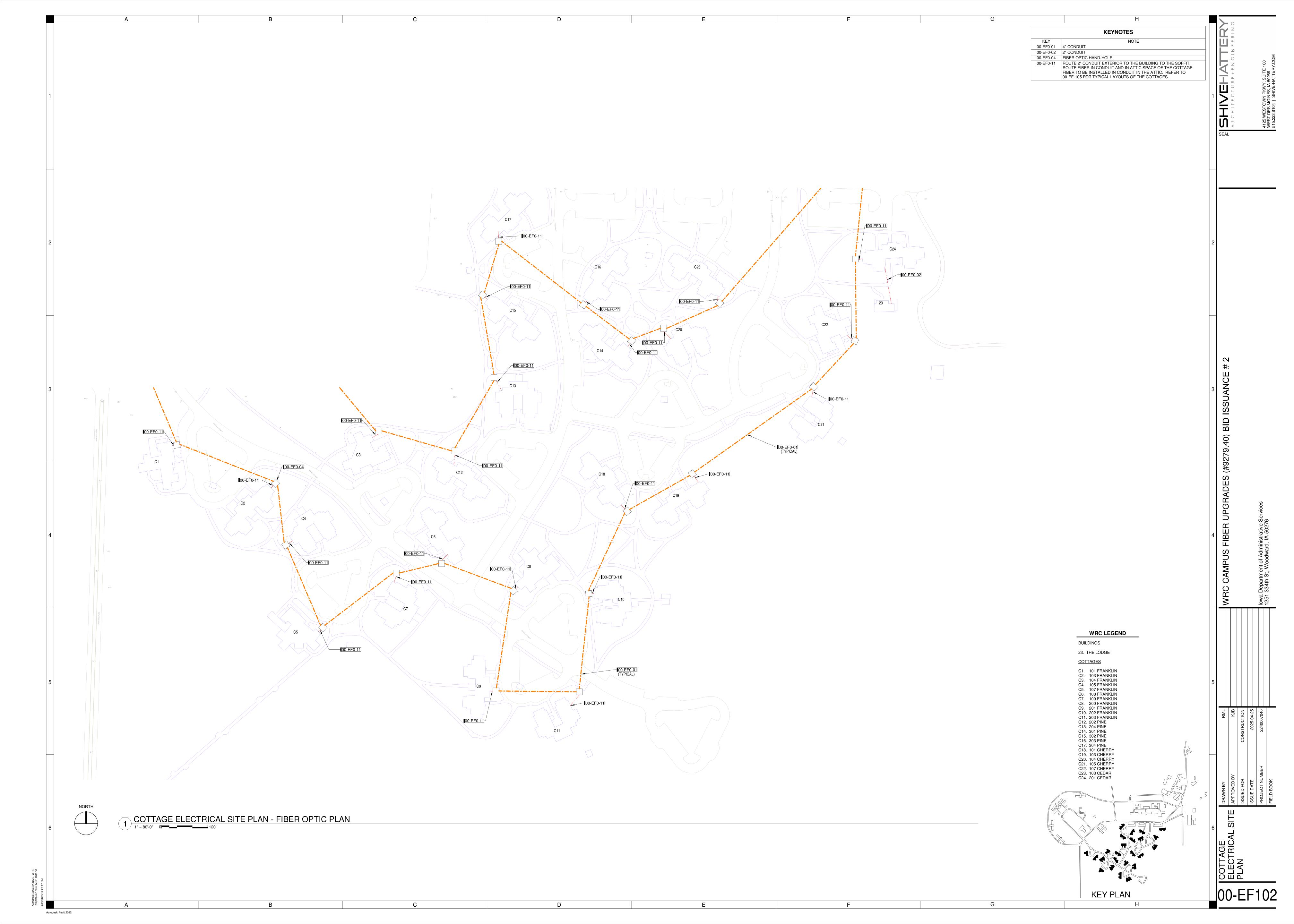
DEMOLITION GENERAL NOTES

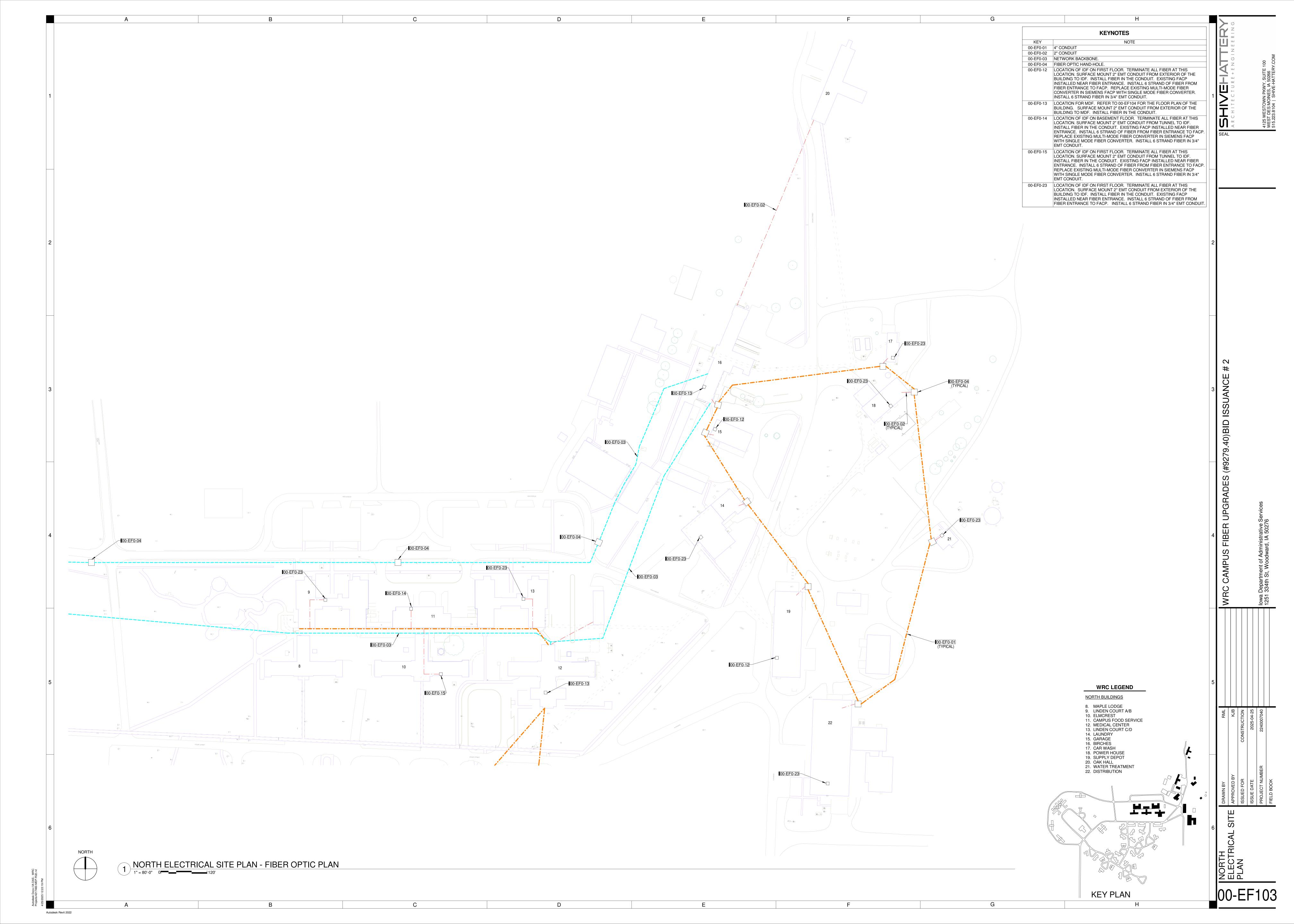
- 1. LIGHT LINES INDICATE EXISTING WALLS AND EQUIPMENT TO REMAIN. DASHED LINES INDICATE WALLS, EQUIPMENT, AND ELECTRICAL ITEMS TO BE REMOVED.
- 2. COORDINATE PATCHING REQUIREMENTS FOR UNUSED OPENINGS WITH THE GENERAL CONTRACTOR. GENERAL CONTRACTOR SHALL PATCH ALL UNUSED OPENINGS. PATCHWORK SHALL MATCH MATERIALS, FINISH, AND TEXTURE OF ADJACENT SURFACES.
- 3. COORDINATE DISPOSAL OF ALL ITEMS NOT REQUESTED AS SALVAGE BY THE OWNER.
- 4. TELEPHONE AND DATA HORIZONTAL CABLING SHALL BE REMOVED COMPLETELY BACK TO THE FIRST REMAINING DISTRIBUTION FRAME. PROTECT FIBER OPTIC AND COPPER TRUNK CABLING SERVING DISTRIBUTION RACKS.
- 5. LIGHTING FIXTURES AND CONTROLS REMOVE EXISTING LIGHT FIXTURES, WALL SWITCHES, OCCUPANCY SENSORS, AND ASSOCIATED WIRING. VERIFY AND MAINTAIN CONNECTION TO EXISTING LIGHTING THAT WILL NOT BE REMOVED BUT ARE ON COMMON CIRCUITS WITH ITEMS TO BE REMOVED.
- 6. DISCONNECT OUTLETS, WIRING, AND OTHER NOTED EQUIPMENT TO PERMIT DEMOLITION OF WALLS. VERIFY AND MAINTAIN CONNECTION TO EXISTING OUTLETS THAT WILL NOT BE REMOVED BUT ARE ON COMMON CIRCUITS WITH ITEMS TO BE REMOVED.
- 7. DRAWINGS DO NOT IDENTIFY ALL OUTLETS, SWITCHES, CABLING, OR EQUIPMENT TO BE REMOVED. CONTRACTOR SHALL BECOME FAMILIAR WITH THE SITE PRIOR TO BIDDING AND INCLUDE LABOR AND MATERIAL NECESSARY FOR REQUIRED DEMOLITION IN THEIR BID.
- 8. WIRING SHALL BE REMOVED BACK TO SERVING PANEL. INSTALLATION OF NEW CONDUCTORS IN EXISTING CONDUITS WILL BE PERMITTED AS DESCRIBED IN THE DIVISION 26 SPECIFICATIONS.
- 9. ALL EXISTING FIBER TO REMAIN. EXISTING FIBER TO BE REMOVED IN A SEPARATE PROJECT.

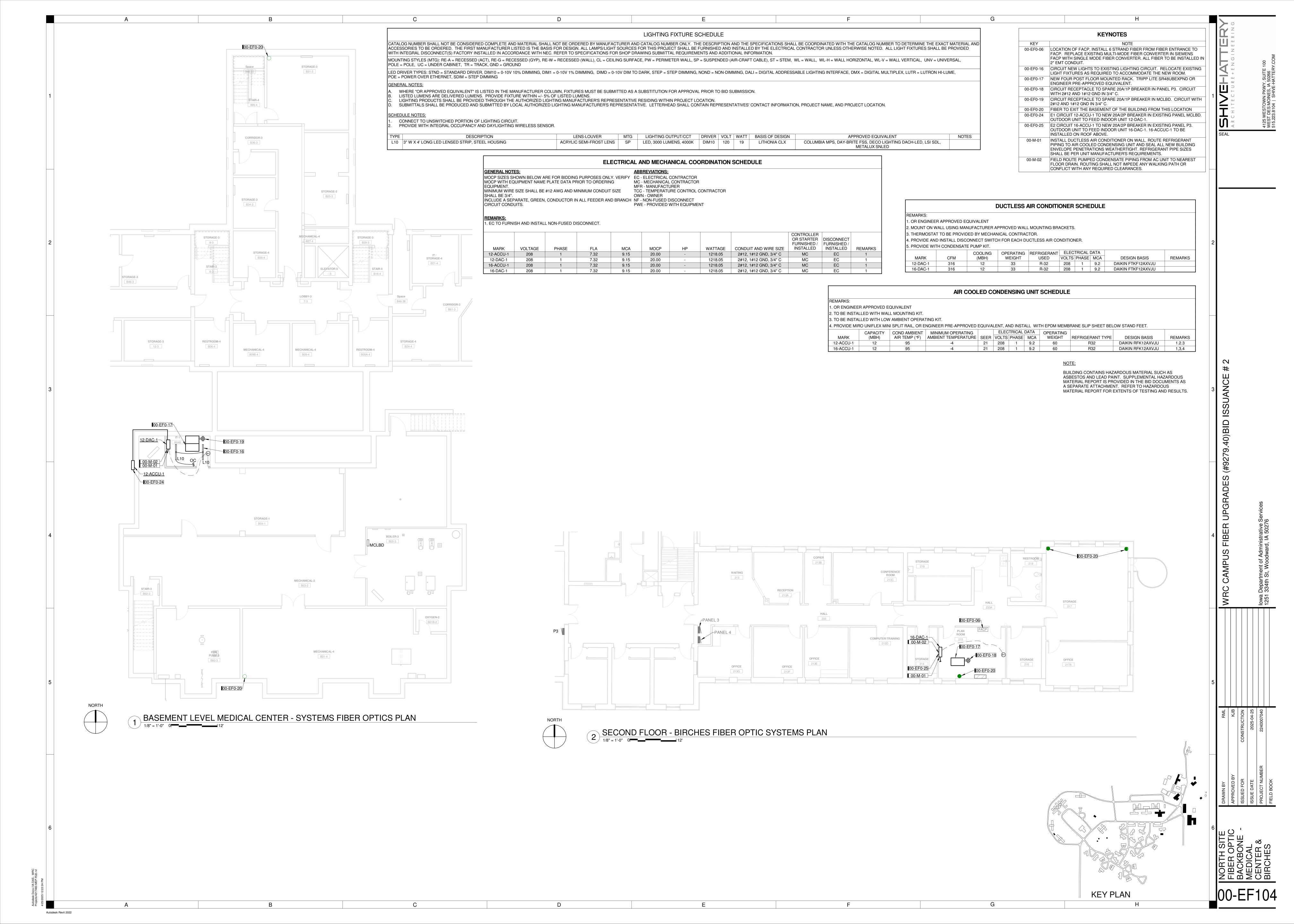
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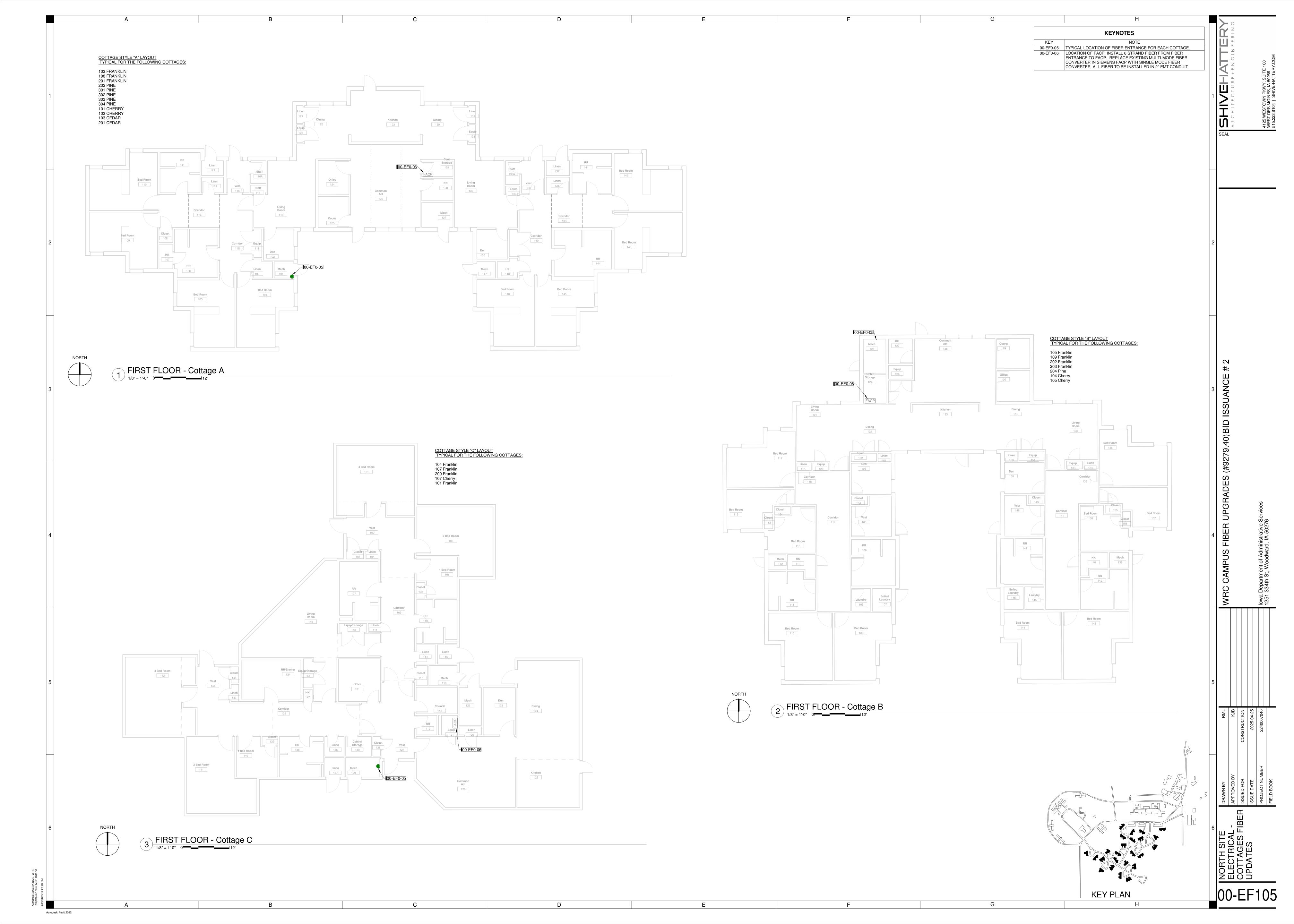


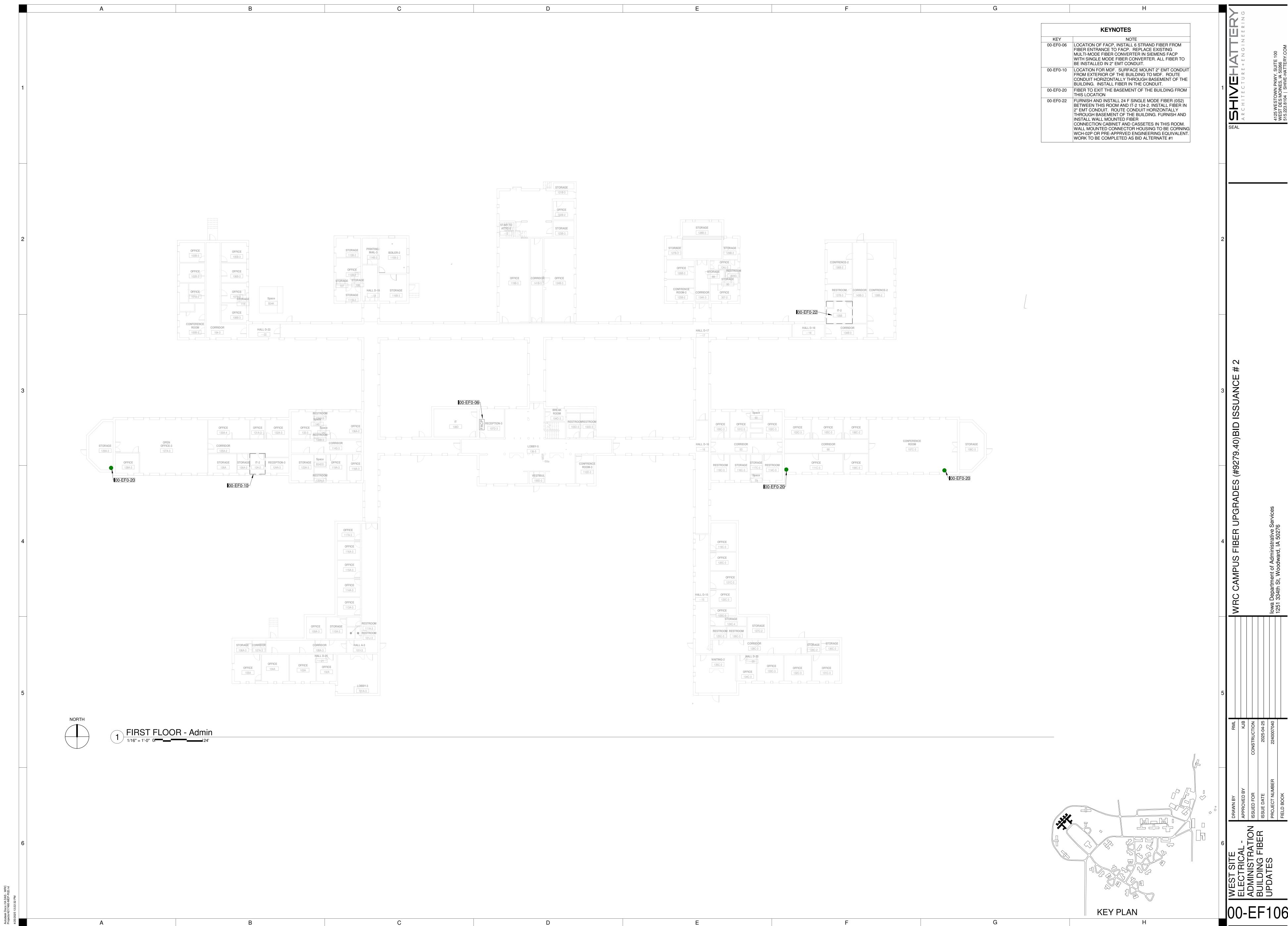


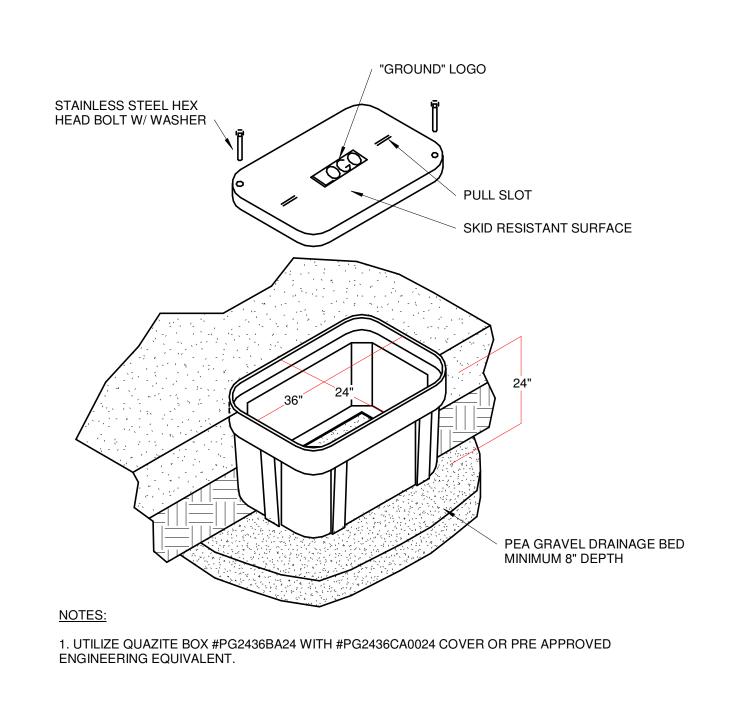


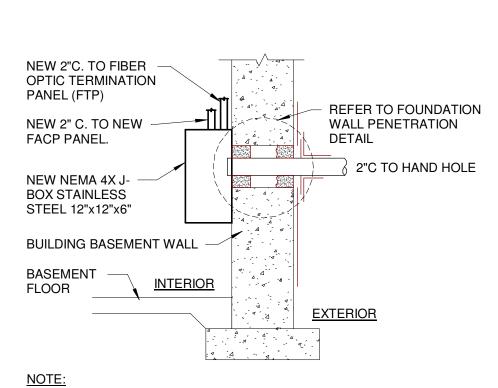






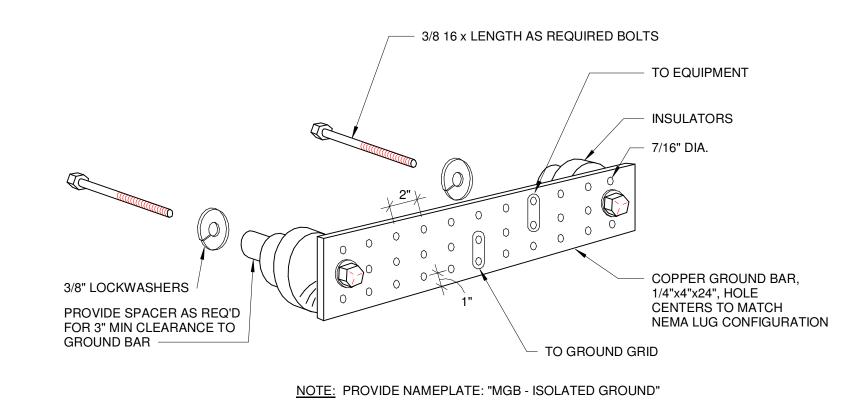




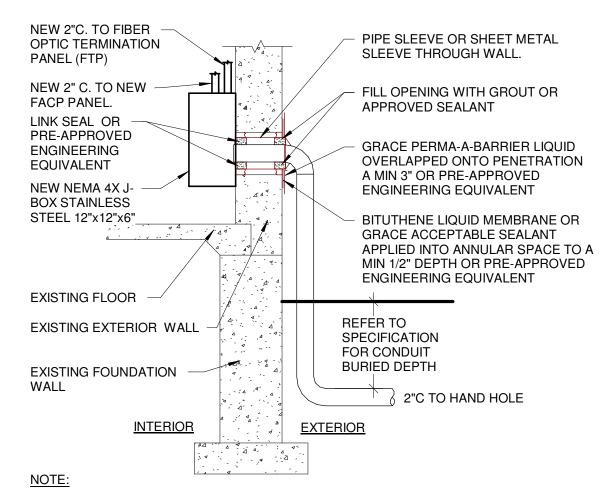


1. CONTRACTOR SHALL SEAL ALL PENETRATIONS THROUGH EXISTING EXTERIOR FOUNDATION WALL TO MAKE PENETRATION WATERPROOF.

3 EXTERIOR WALL CONDUIT PENETRATION - BELOW GRADE NOT TO SCALE

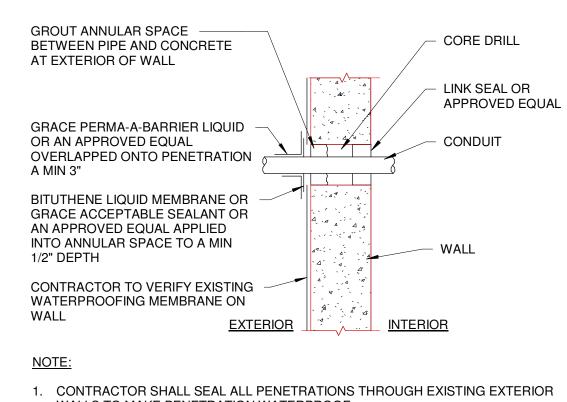


6 GROUND BAR DETAIL
NOT TO SCALE



1. CONTRACTOR SHALL SEAL ALL PENETRATIONS THROUGH EXISTING EXTERIOR WALLS TO MAKE PENETRATION WATERPROOF.

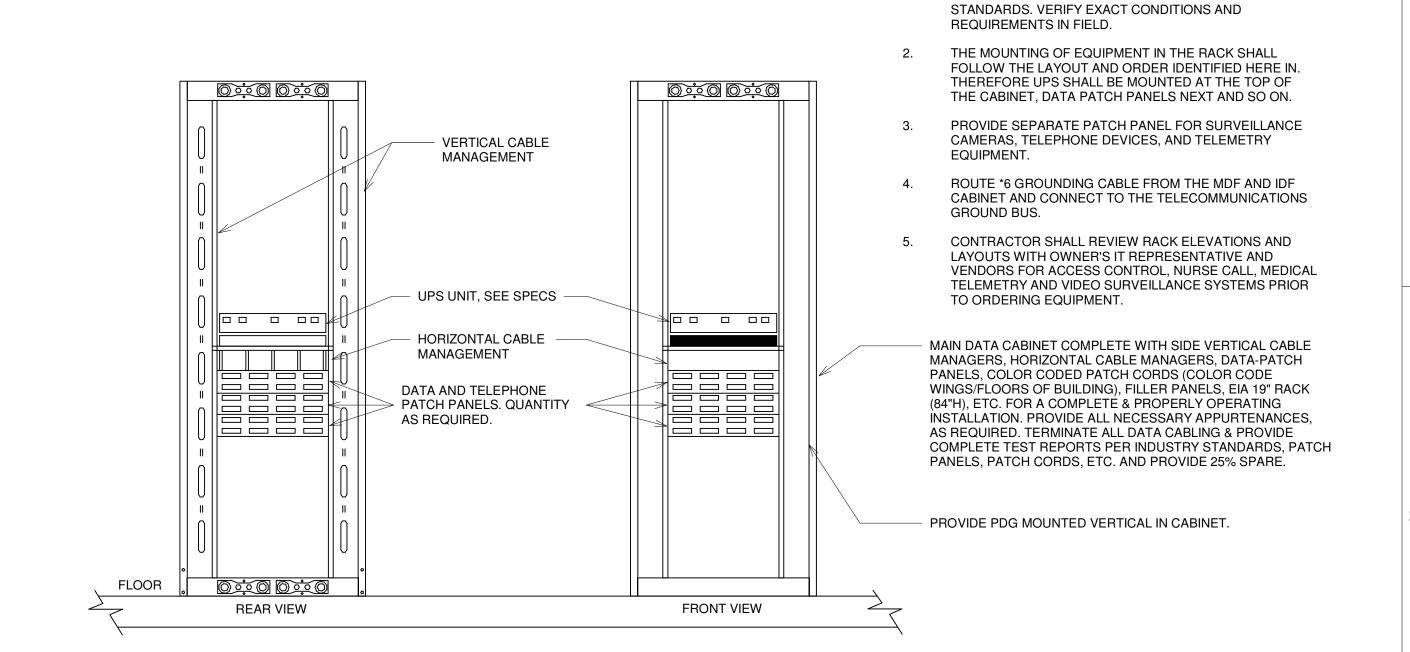
2 EXTERIOR WALL CONDUIT PENETRATION - ABOVE GRADE
NOT TO SCALE



WALLS TO MAKE PENETRATION WATERPROOF.

2. SEAL AROUND ALL CONDUIT PENETRATIONS THROUGH INTERIOR WALLS AND FLOORS SEPARATING AREAS TO RESTORE ORIGINAL FIRE RATING. CONTRACTOR SHALL USE A UL CLASSIFIED FIRE SEALANT. 3. ELECTRICAL CONTRACTOR SHALL REQUEST INSPECTION OF FIRE SEALS BY THE FIRE MARSHALL FROM AHJ BEFORE AND AFTER PLACEMENT OF FIRE SEAL

4 EXTERIOR WALL PENETRATION DETAIL
NOT TO SCALE



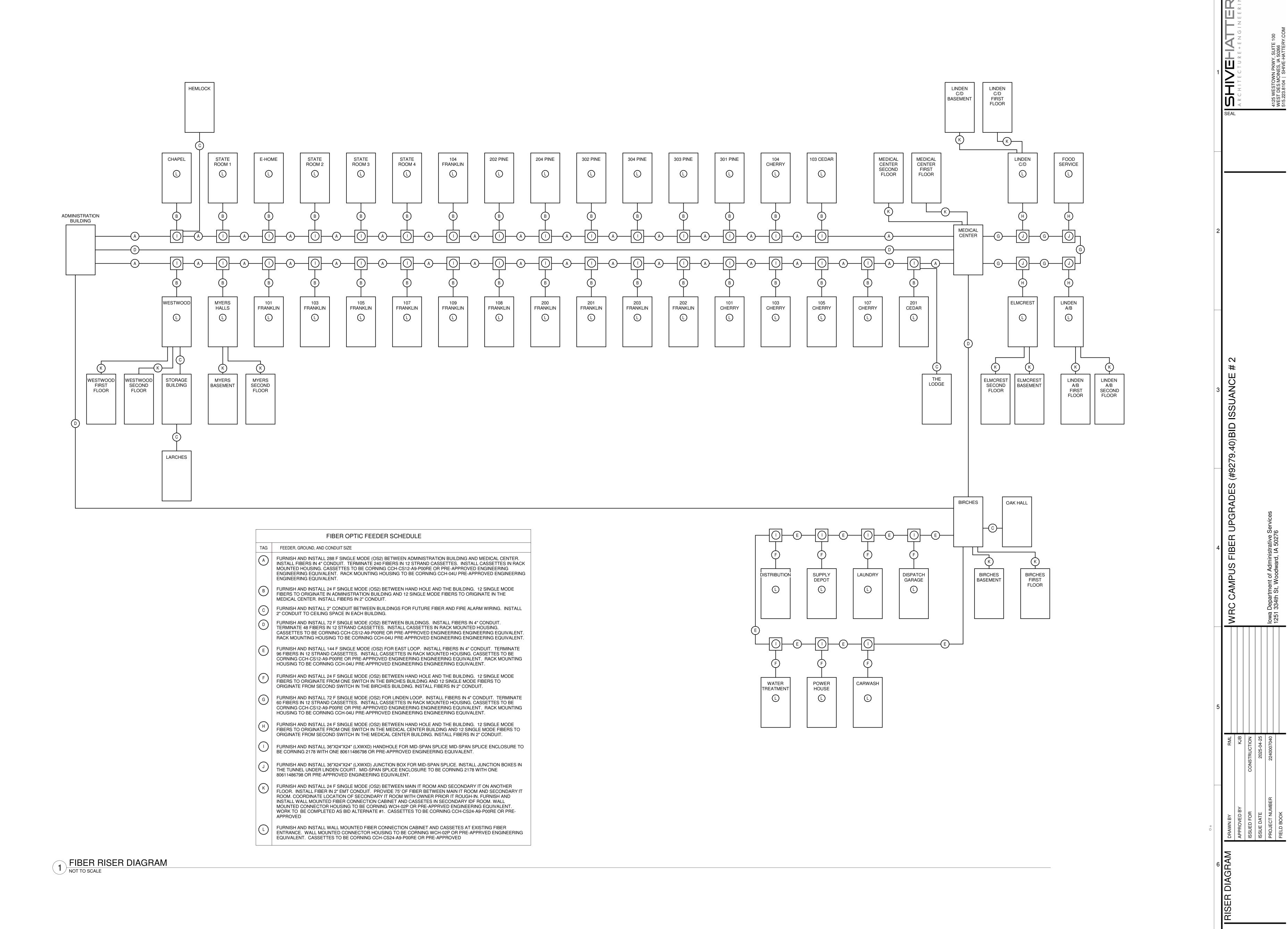
PROVIDE 25' COILED SLACK LENGTH FOR EACH

WIRE MANAGEMENT STRUCTURE PER EIA/TIA

TERMINATED LEVEL 7, CATEGORY 6 DATA CABLE. UTILIZE

7 MDF/IDF TYPICAL RACK ELEVATION LAYOUT DETAIL
NOT TO SCALE

D



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