

# WRC CAMPUS FIBER UPGRADES (#9279.40) BID ISSUANCE # 2

## Iowa Department of Administrative Services

1251 334th St, Woodward, IA 50276



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### CERTIFICATIONS

#### ELECTRICAL ENGINEER

	<p>I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.</p> <p>SIGNATURE: <i>Kevin J. Brukvoort</i> DATE: 4-25-2025</p> <p>PRINTED OR TYPED NAME: <b>Kevin J. Brukvoort</b></p> <p>LICENSE NUMBER: <b>19927</b></p> <p>MY LICENSE RENEWAL DATE IS DECEMBER 31, <b>2025</b></p> <p>PAGES, SHEETS OR DIVISIONS COVERED BY THIS SEAL: <b>G Sheet, EF Sheets</b></p>
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#### CIVIL ENGINEER

	<p>I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.</p> <p>SIGNATURE: <i>Kyle A. Lawson</i> DATE: 4-25-2025</p> <p>PRINTED OR TYPED NAME: <b>Kyle A. Lawson</b></p> <p>LICENSE NUMBER: <b>26414</b></p> <p>MY LICENSE RENEWAL DATE IS DECEMBER 31, <b>2025</b></p> <p>PAGES, SHEETS OR DIVISIONS COVERED BY THIS SEAL: <b>C Sheets</b></p>
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#### ARCHITECT

	<p>I HEREBY CERTIFY THAT THE PORTION OF THIS TECHNICAL SUBMISSION DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND RESPONSIBLE CHARGE. I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF IOWA.</p> <p>SIGNATURE: <i>Cameron L. Manley</i> DATE: 4-25-2025</p> <p>PRINTED OR TYPED NAME: <b>Cameron L. Manley</b></p> <p>LICENSE NUMBER: <b>06716</b></p> <p>MY LICENSE RENEWAL DATE IS JUNE 30, <b>2025</b></p> <p>PAGES, SHEETS OR DIVISIONS COVERED BY THIS SEAL: <b>A Sheet</b></p>
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#### MECHANICAL ENGINEER

	<p>I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.</p> <p>SIGNATURE: <i>John D. Baumhover</i> DATE: 4-25-2025</p> <p>PRINTED OR TYPED NAME: <b>John D. Baumhover</b></p> <p>LICENSE NUMBER: <b>25737</b></p> <p>MY LICENSE RENEWAL DATE IS DECEMBER 31, <b>2025</b></p> <p>PAGES, SHEETS OR DIVISIONS COVERED BY THIS SEAL: <b>Mechanical Items</b></p>
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WRC CAMPUS FIBER UPGRADES (#9279.40) BID ISSUANCE # 2

ISSUED FOR CONSTRUCTION  
ISSUE DATE: 2025-04-25

00-G000

Iowa Department of Administrative Services  
1251 334th St, Woodward, IA 50276

PROJECT NUMBER: 2240007040

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ARCHITECTURE+ENGINEERING

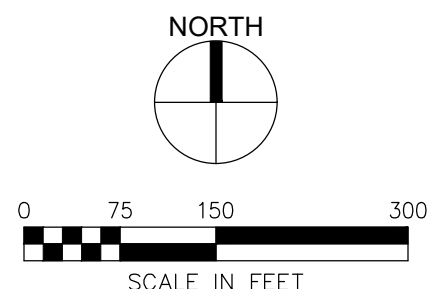
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## OVERALL UTILITY PLAN





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WRC CAMPUS FIBER UPGRADES (#9279.40) BID ISSUANCE # 2

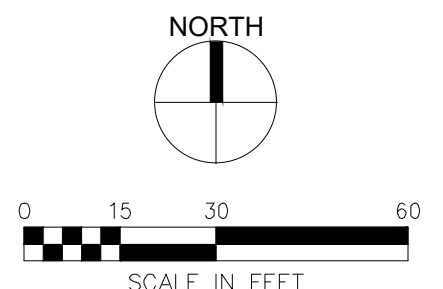
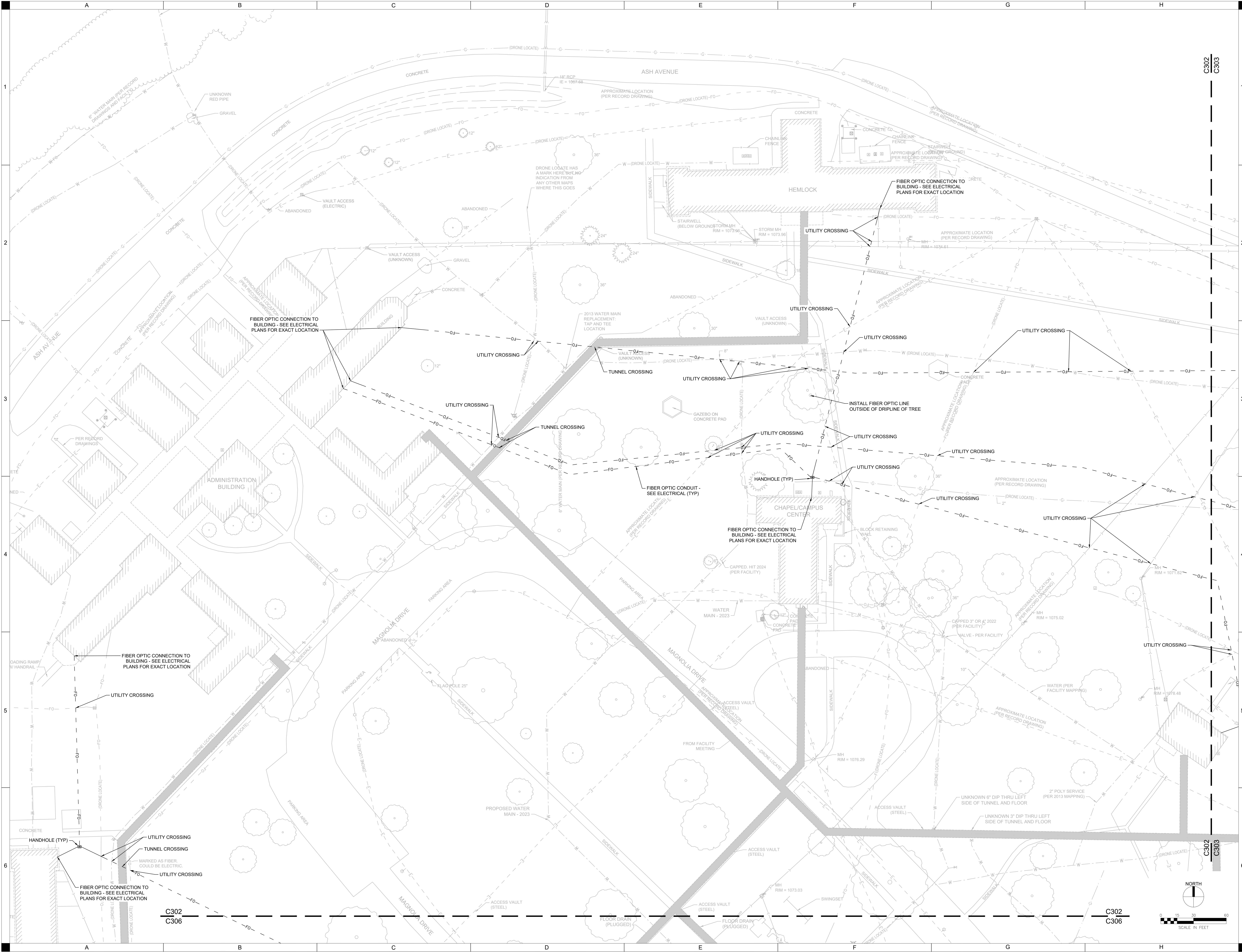
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DRAWN BY	BDD
APPROVED BY	CRB
ISSUED FOR	CONSTRUCTION
ISSUE DATE	2025-04-25
PROJECT NUMBER	2240007040
FIELD BOOK	1

00-C301



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DATE: 04/25/2024



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UTILITY PLAN

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FIELD BOOK	1

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UTILITY PLAN

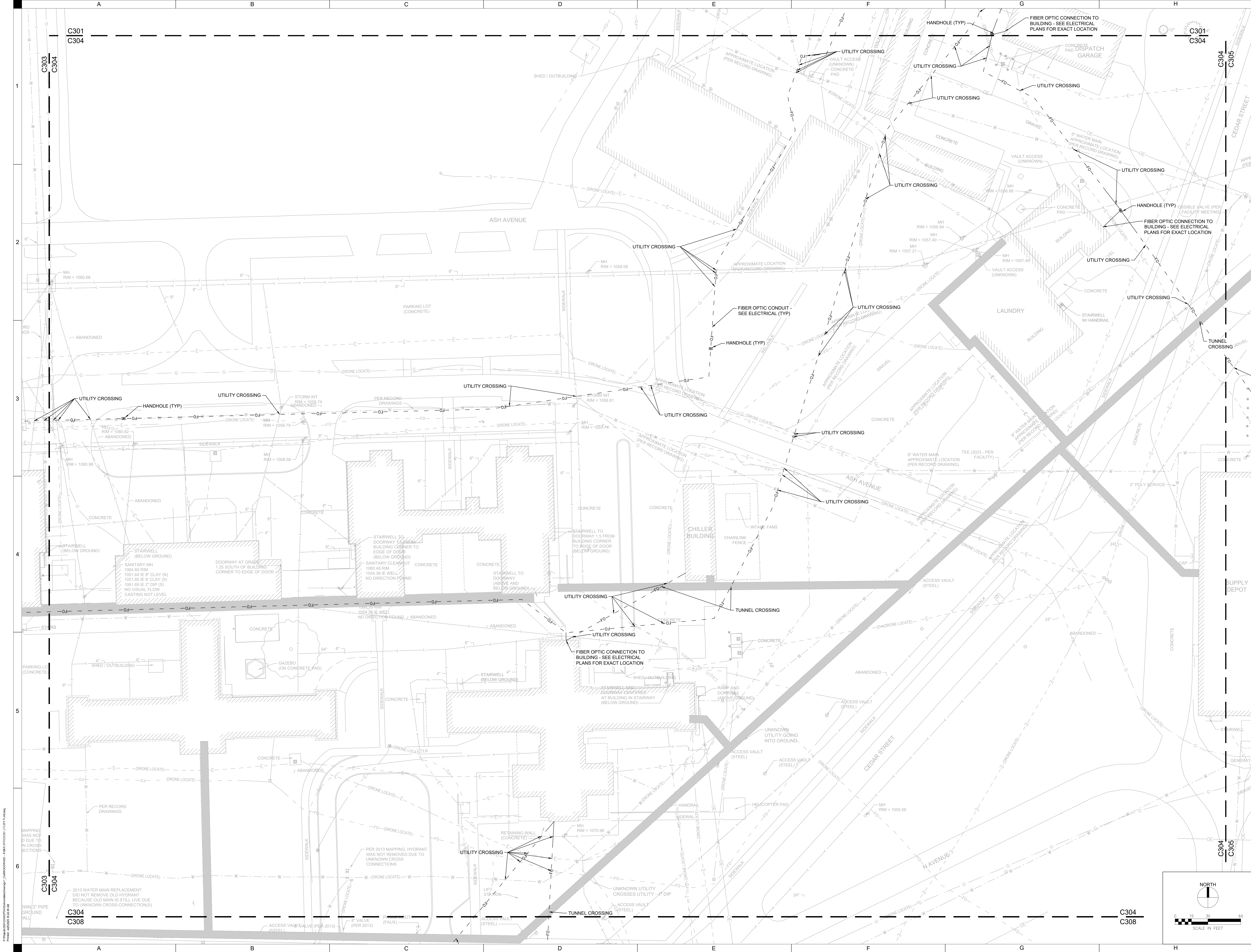
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UTILITY PLAN

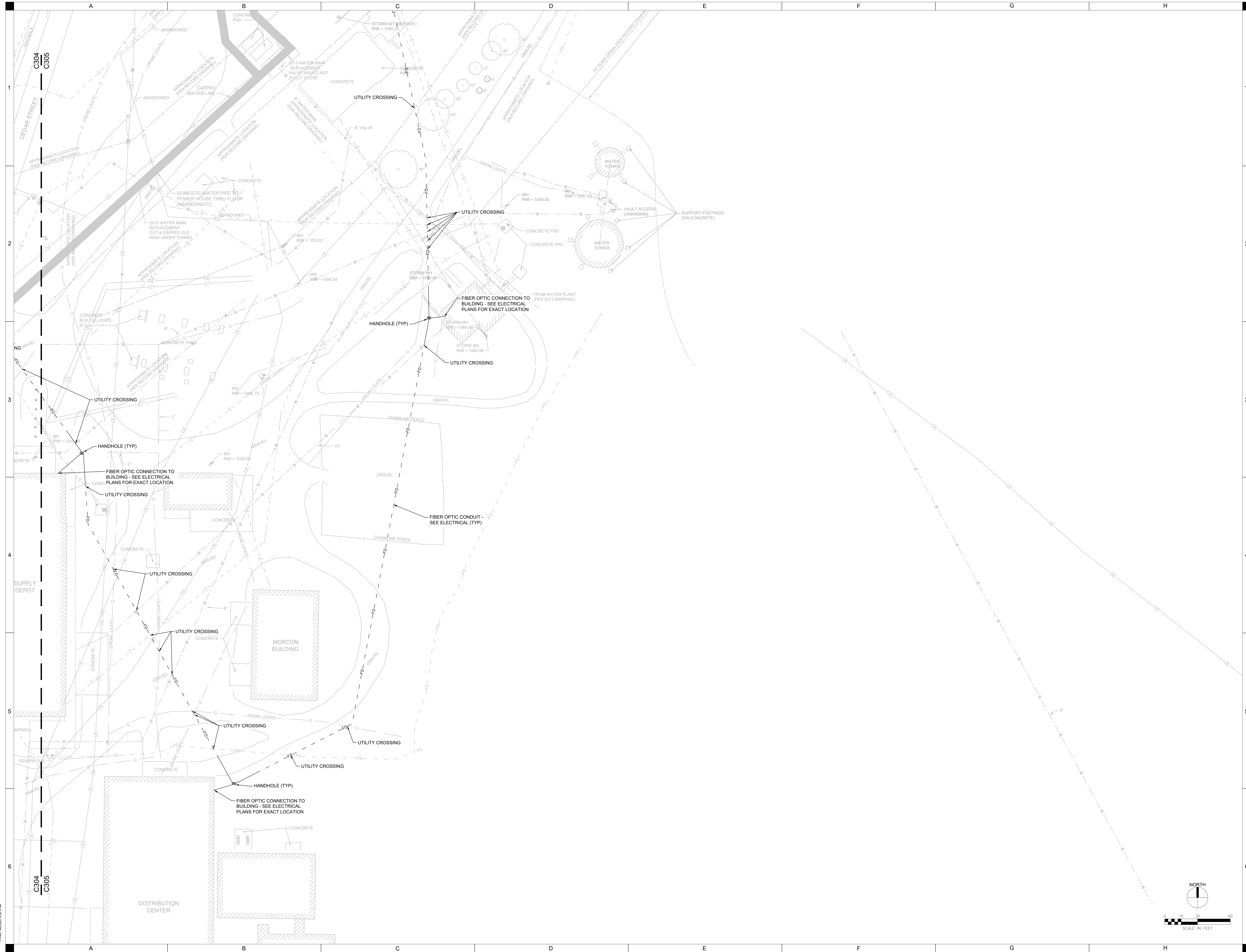
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FIELD BOOK	1

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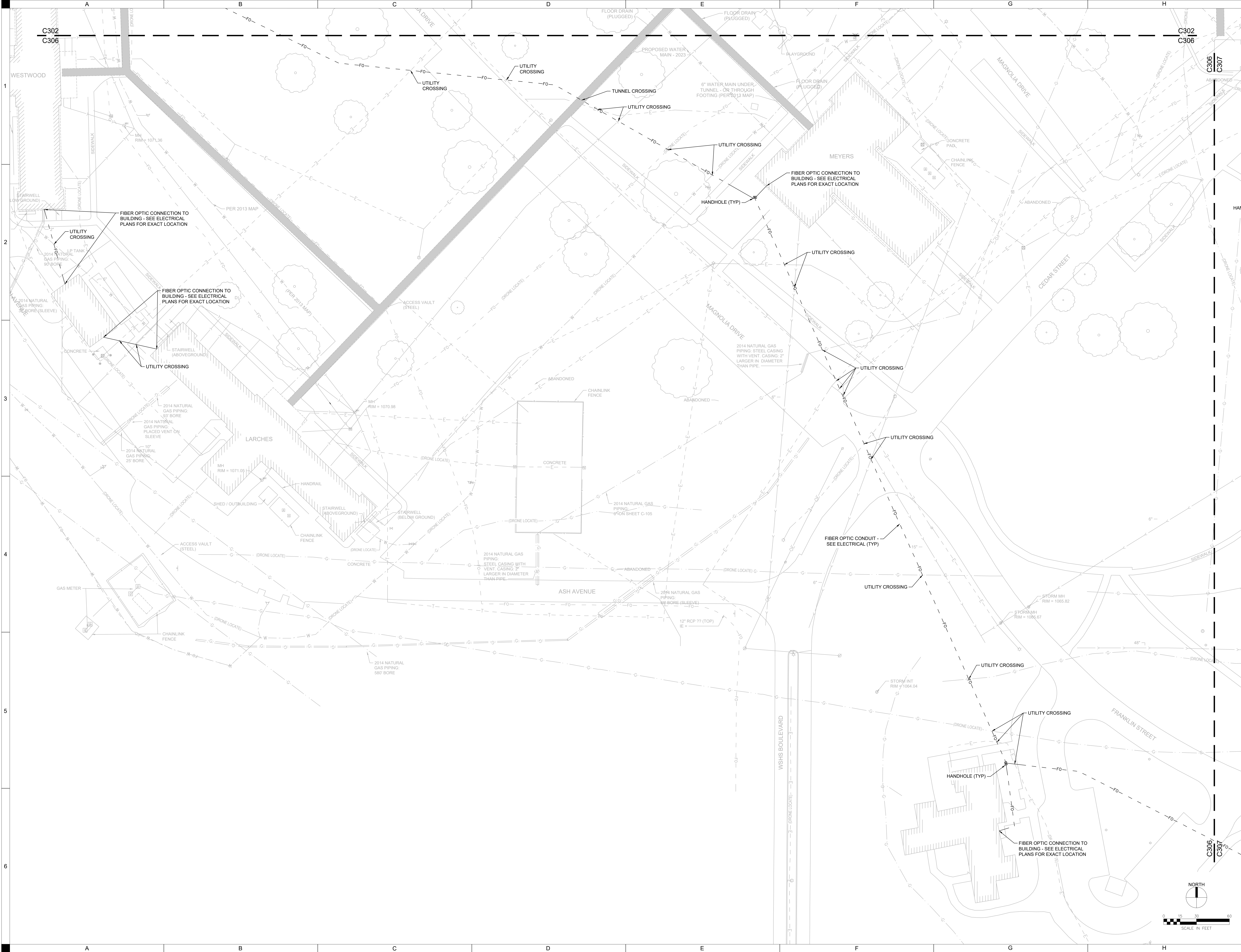




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UTILITY PLAN

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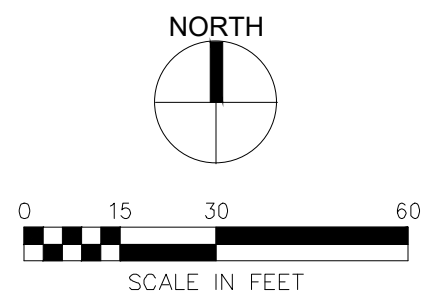
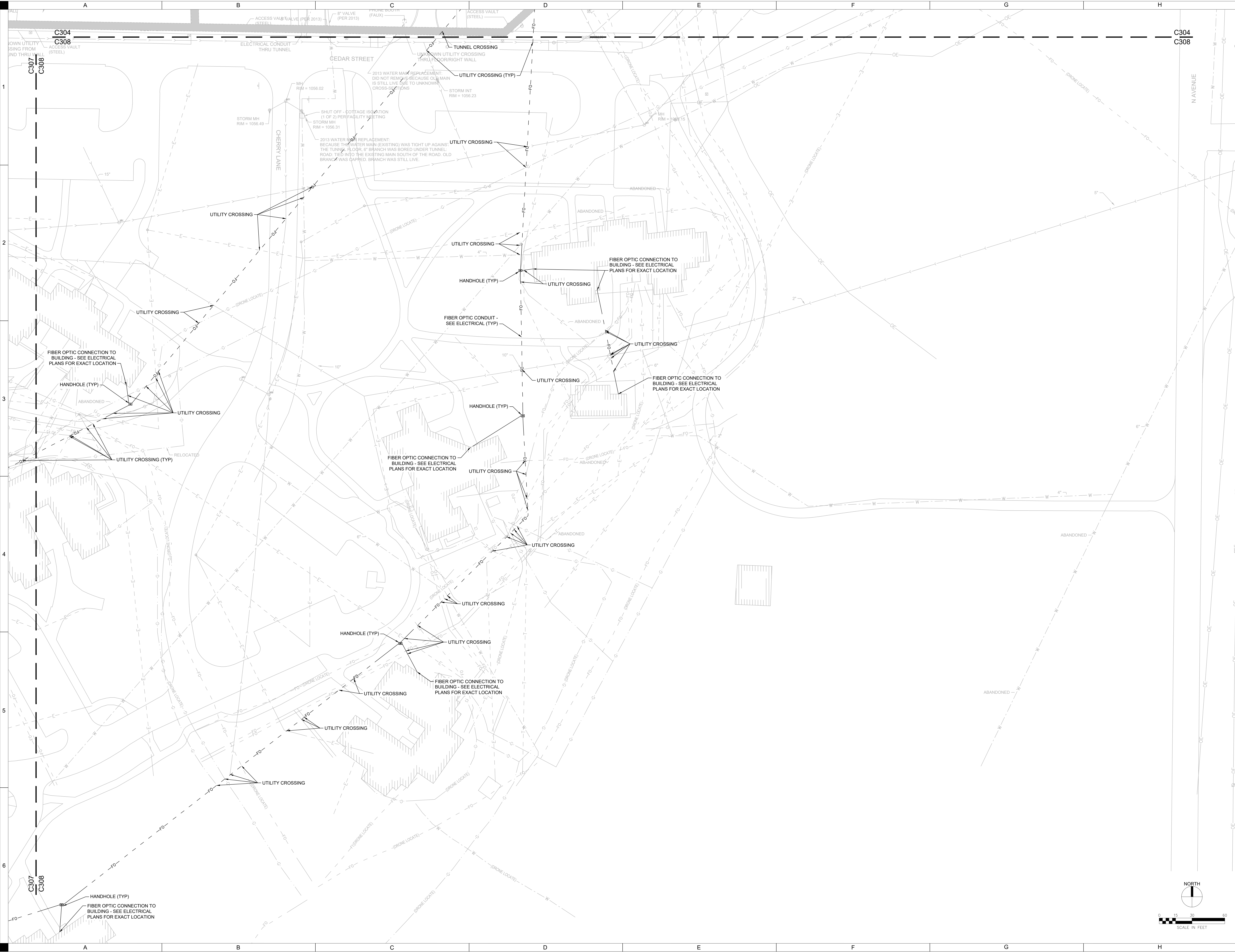
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FIELD BOOK	1

00-C307

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12251 334TH ST. WOODWARD, IA 50276



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UTILITY PLAN

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ISSUED FOR	CONSTRUCTION
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PROJECT NUMBER	2240007040
FIELD BOOK	---

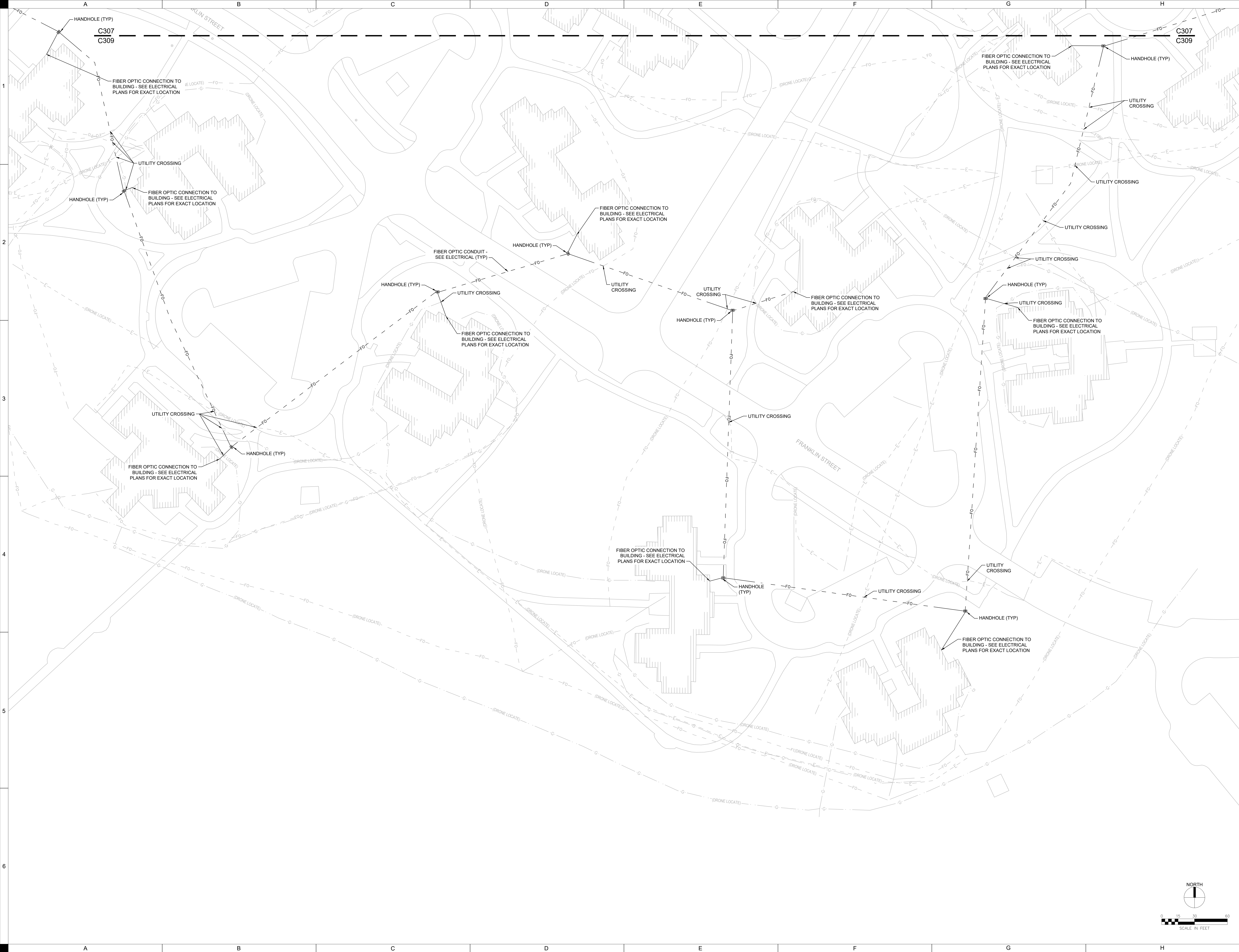
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12251 334TH ST. WOODWARD, IA 50276

00-C308



P:\Projects\2025\CONSTRUCTION\IOWA\IOWA\DWG\00-C309\00-C309.dwg - RBE SPECIES: UTILITY PLANS  
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UTILITY PLAN

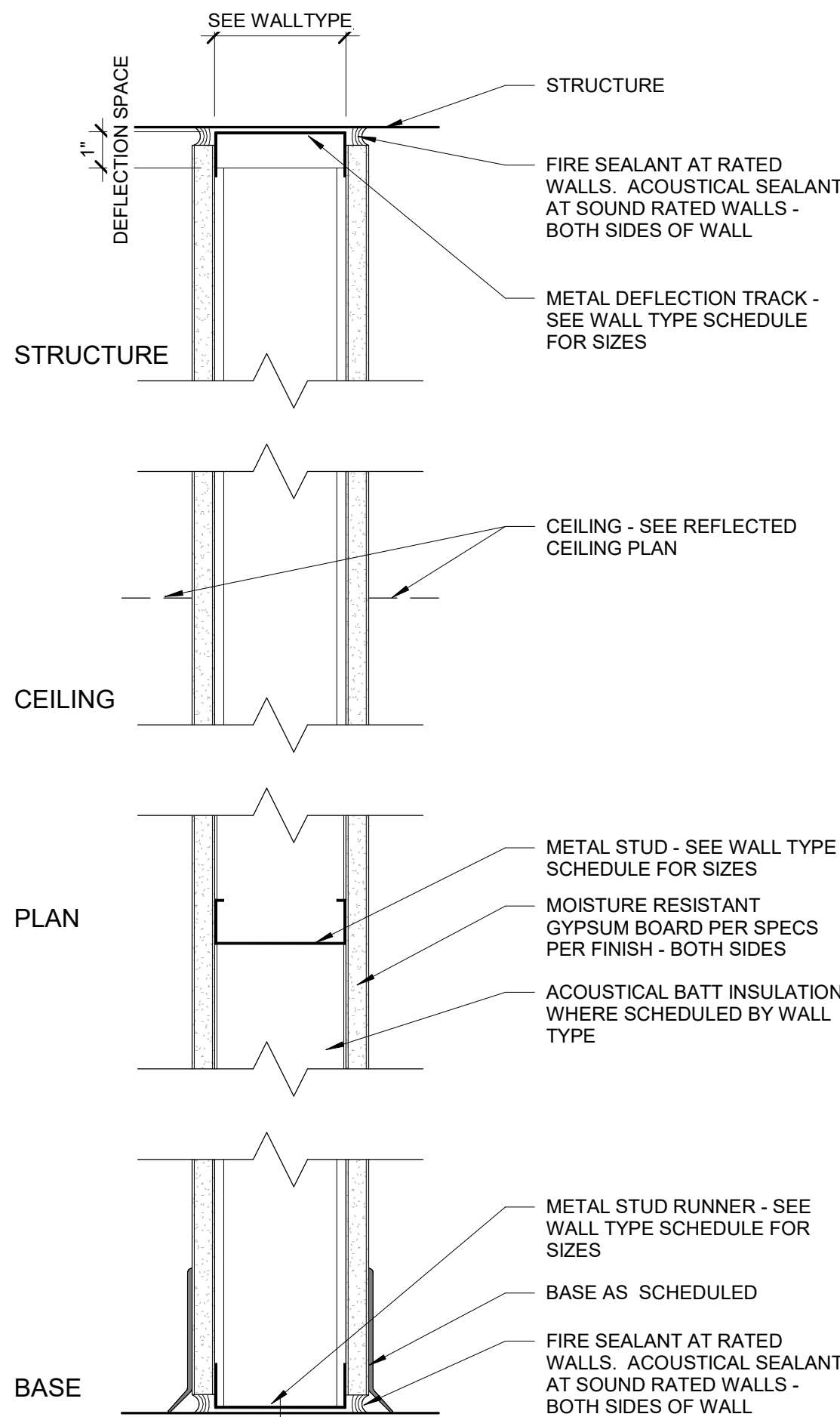
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PROJECT NUMBER	2240007040
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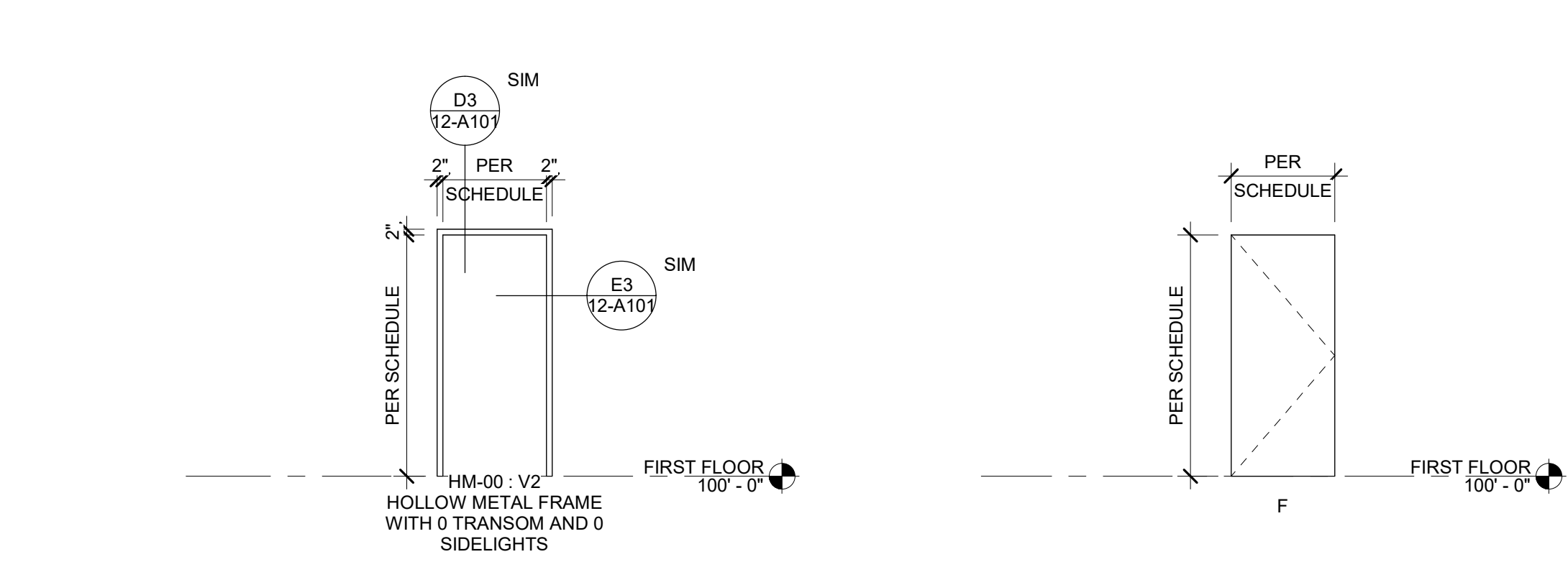




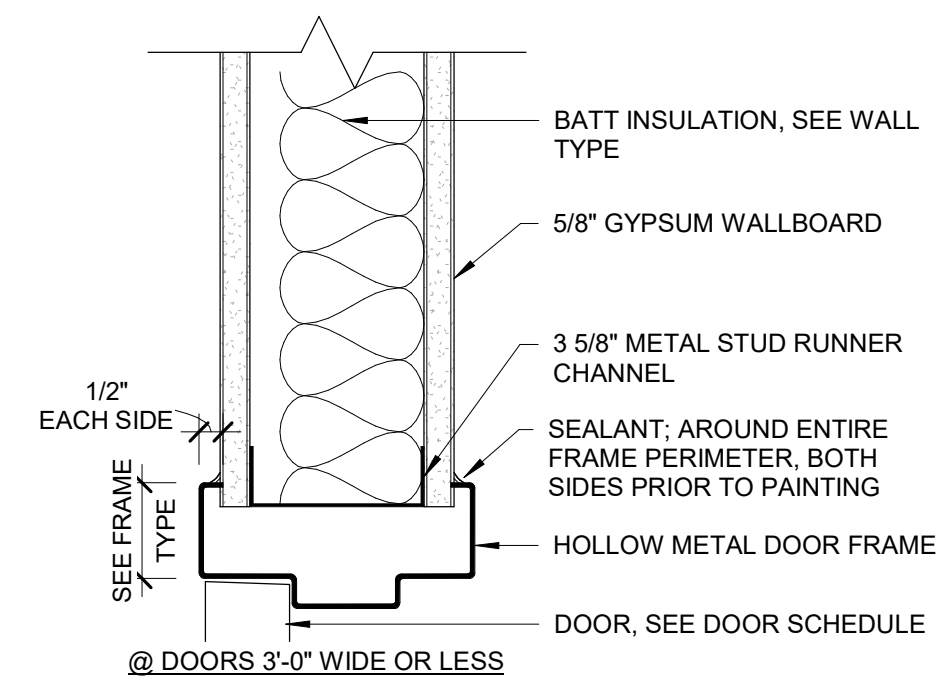
S#A-11 WALL TYPES 1				
TYPE	DESCRIPTION	WIDTH	FIRE RATING	UL NO
S3A-11	3 5/8" METAL STUD TO UNDERSIDE OF STRUCTURE W/ 1 LAYER 5/8" GYP BOTH SIDES	4 7/8"		

**A3** WALLTYPE S#A-#11  
3" = 1'-0" 0 6"

DOOR SCHEDULE 1										
MARK	ROOM NAME	OPENING SIZE		DOOR	THICKNESS	FRAME		HDWR	FIRE RATING	REMARKS
		WIDTH	HEIGHT			TYPE	MATERIAL			

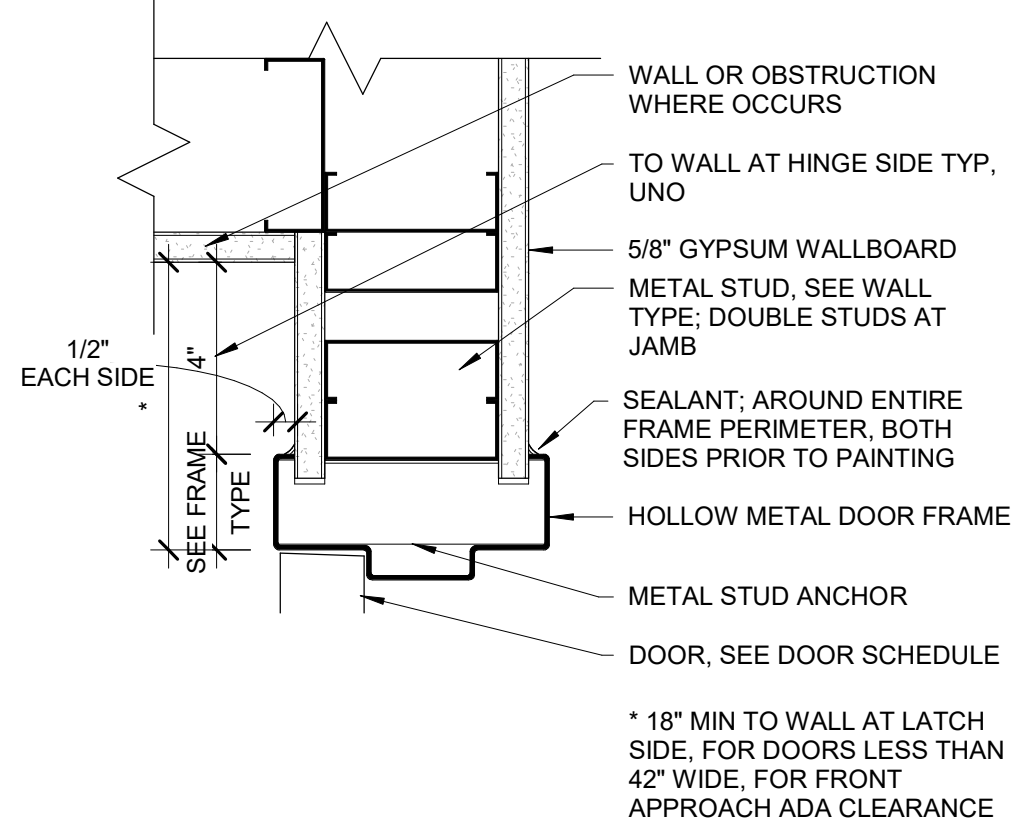


**D2** DOOR FRAME ELEVATION  
1/4" = 1'-0" 0 6"

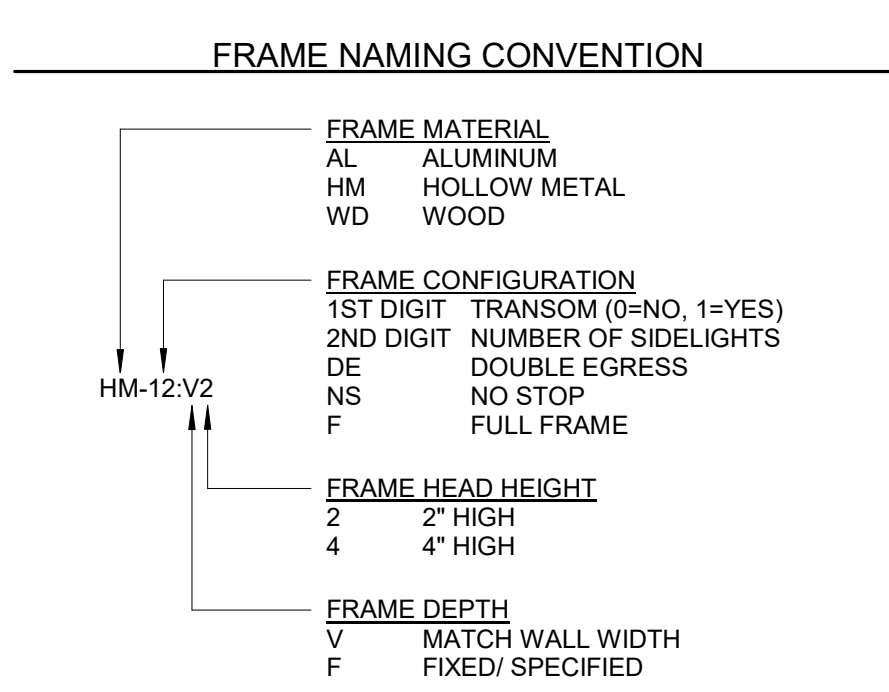


**D3** HEAD - HM - METAL STUD  
3" = 1'-0" 0 6"

**E2** DOOR PANEL ELEVATION  
1/4" = 1'-0" 0 6"



**E3** JAMB - HM - METAL STUD  
3" = 1'-0" 0 6"



**DOOR HARDWARE GROUPS**  
MANUFACTURERS LISTED ARE BASIS OF DESIGN, SEE SPECIFICATIONS FOR ADDITIONAL MANUFACTURERS.

**GROUP 01**  
SINGLE DOOR, FOR USE ON DOOR NO. B04B

3 EA	HEAVY DUTY HINGES	TA795, 5"	US26D	MCK
1 EA	STOREROOM LOCKSET	PROVIDED BY OWNER	-	-
1 EA	CLOSER	4040XP DEL EDA	AL	LCN
1 EA	OVERHEAD STOP	599S	US26D	RO
1 EA	KICKPLATE	8400 30" X 34"	US32D	IV
3 EA	SILENCERS	608	GR	RO

**MANUFACTURER ABBREVIATIONS**

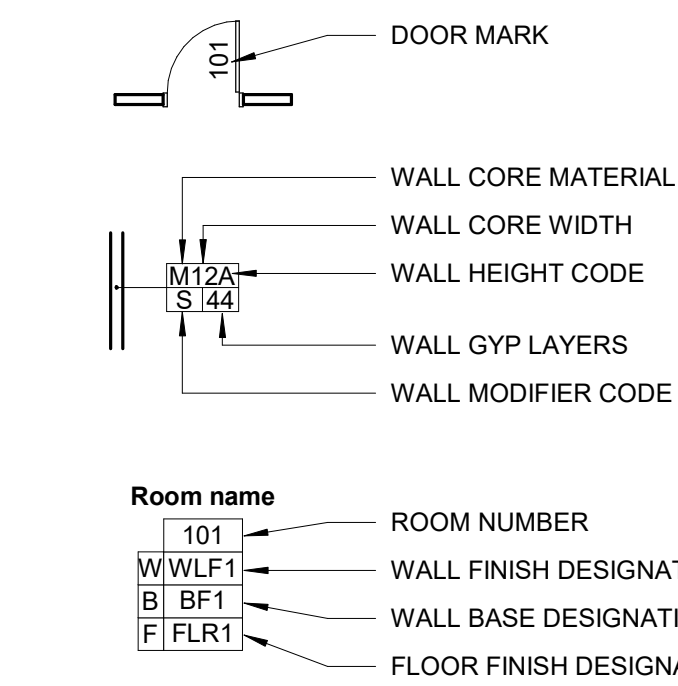
IV - IVES  
LCN - LCN CLOSERS  
MCK - MCKINNEY  
PE - PEIKO  
RO - ROCKWOOD  
SA - SARGENT

**FLOOR PLAN NOTES**

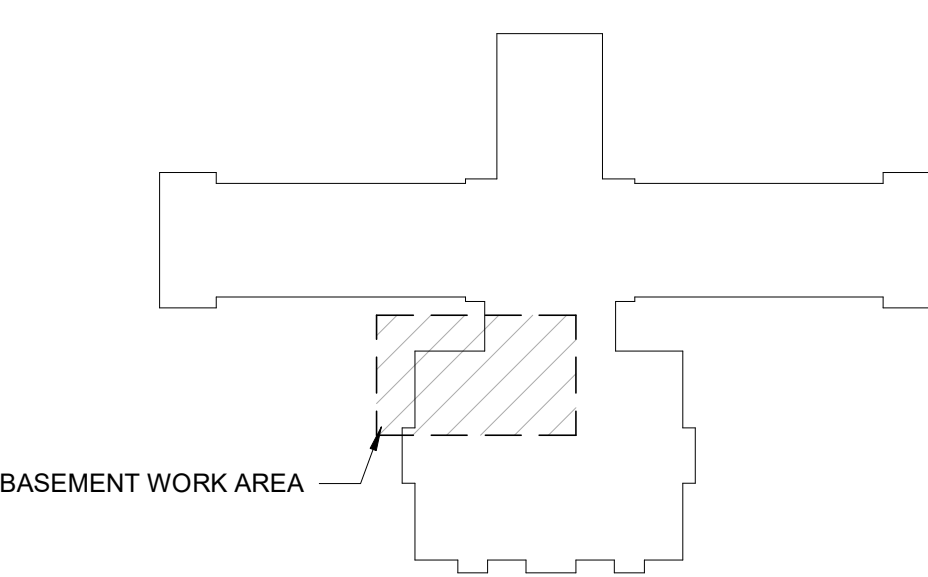
- REFER TO DRAWINGS OF ALL TRADES FOR ADDITIONAL INFORMATION REGARDING ITEMS PENETRATING FLOORS, WALLS, AND CEILINGS.
- ALL NEW PARTITIONS ARE DIMENSIONED TO FACE OF STUD, MASONRY, OR CONCRETE COMPONENT UNLESS NOTED OTHERWISE. DIMENSIONS TO EXISTING ELEMENTS ARE TO EXPOSED FACE.

SEAL ALL PENETRATIONS THROUGH FLOOR WITH FIRE CAULKING

**FLOOR PLAN SYMBOLS LEGEND**



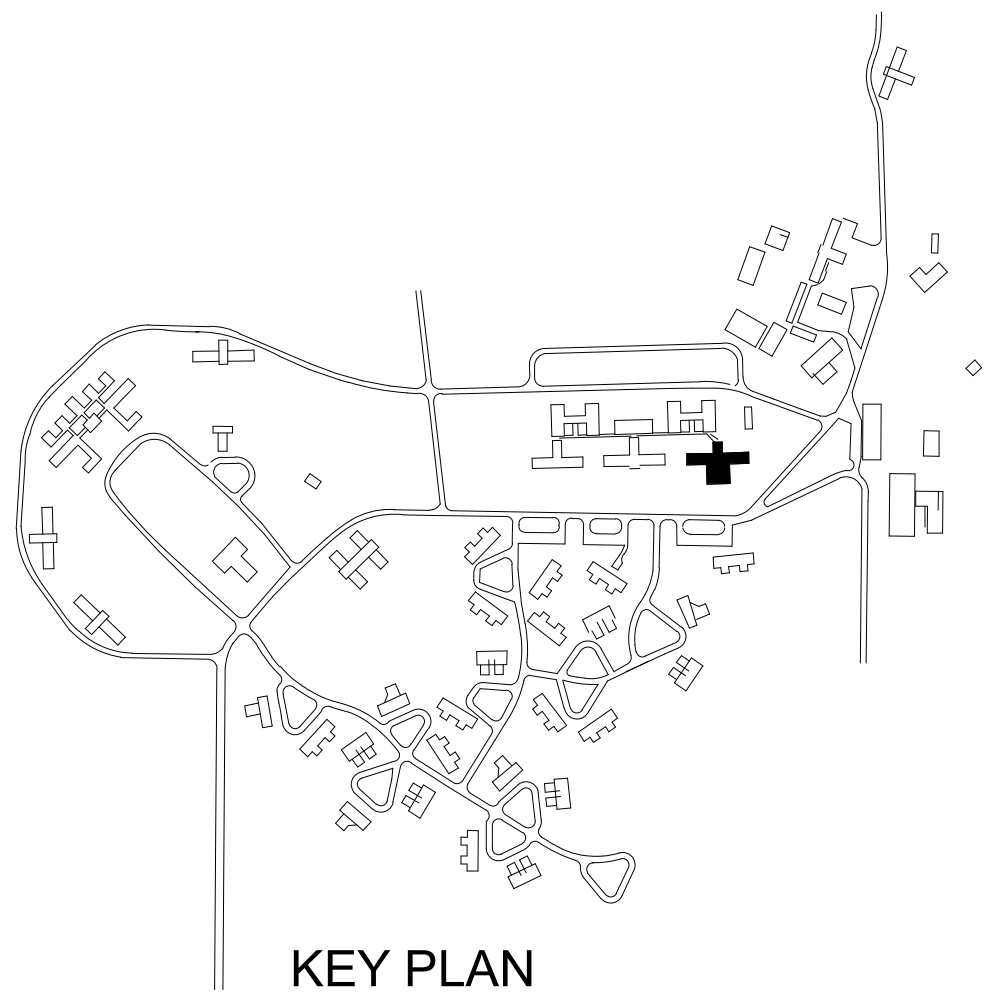
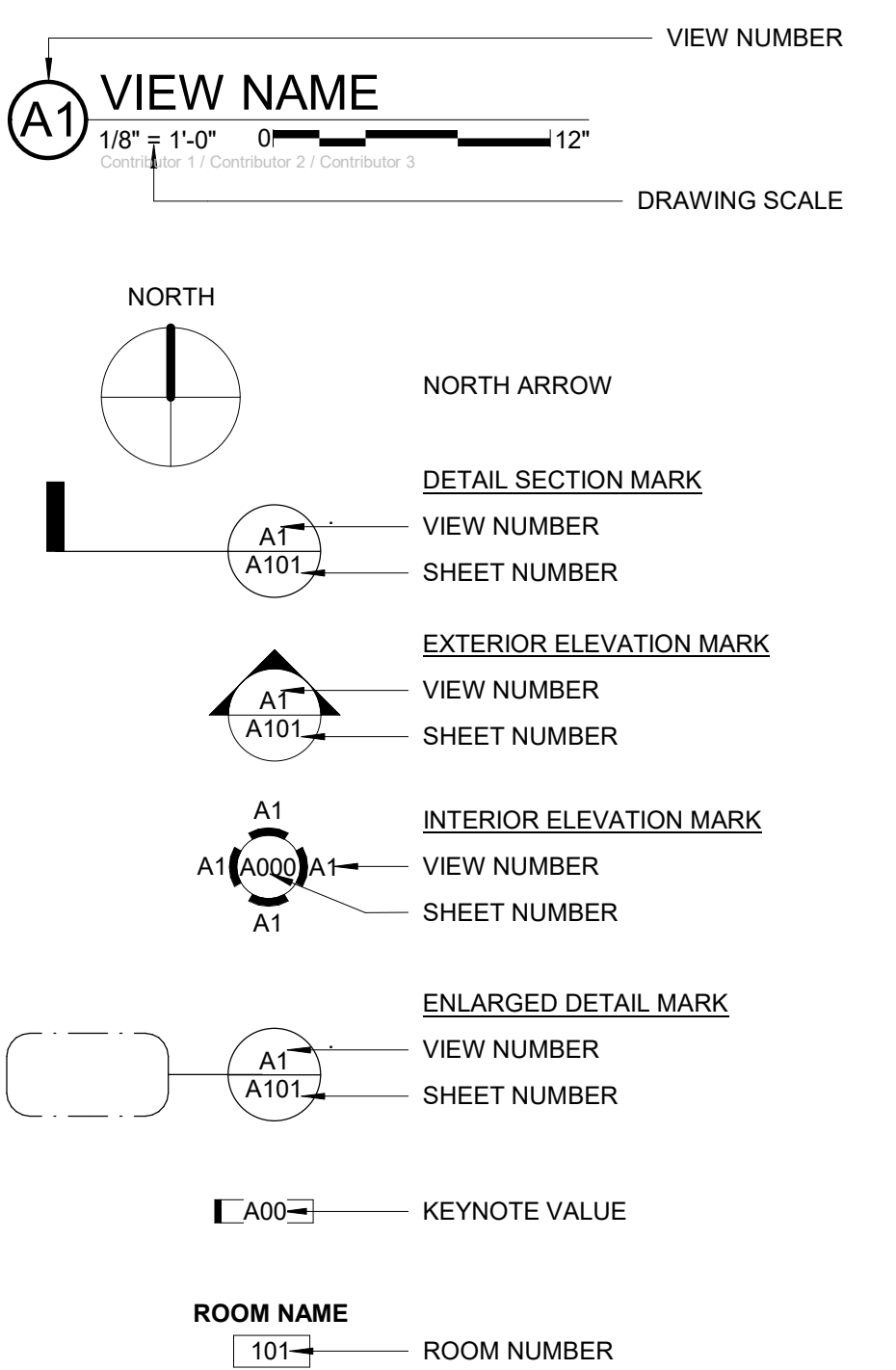
KEYNOTES	
KEY	NOTE
12-A06	ALIGN NEW WALL WITH EXISTING.



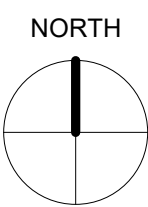
**MED CENTER KEY PLAN**

- PROJECT GENERAL INFORMATION**
- COLOR HAS BEEN USED ON THESE DRAWINGS TO ENHANCE UNDERSTANDING. PRINTING IN COLOR IS RECOMMENDED TO ENSURE CLARITY.
  - ANY DAMAGE TO AREAS INSIDE OR OUTSIDE OF THE PROJECT AREA SHALL BE REPAIRED TO THE STATUS PRIOR TO CONSTRUCTION AT NO COST TO OWNER.
  - THE GENERAL CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR ALL CUTTING, SUPPORTING, AND PATCHING IF NOT COVERED BY A SPECIFIC TRADE.
  - EACH TRADE SHALL PROVIDE TESTED FIRESTOPPING ASSEMBLIES FOR PENETRATIONS OF THEIR WORK THROUGH FIRE-RATED WALLS AND FLOOR/CEILING ASSEMBLIES. FIRESTOPPING ASSEMBLIES ARE TO BE OF DESIGNS THAT PROVIDE THE SCHEDULED FIRE RATINGS WHEN TESTED IN ACCORDANCE WITH ASTM E119, ASTM E814, OR UL 1479, AND ARE TO BE INSTALLED BY INDIVIDUALS TRAINED AND EXPERIENCED WITH INSTALLATION OF SUCH ASSEMBLIES. PROVIDE SUBMITTALS TO LOCAL AUTHORITIES AS REQUESTED.
  - IF COMPLIANCE WITH TWO OR MORE STANDARDS IS SPECIFIED AND THE STANDARDS ESTABLISH DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES OR QUALITY LEVELS, COMPLY WITH THE MOST STRINGENT REQUIREMENT. REFER UNCERTAINTIES AND REQUIREMENTS THAT ARE DIFFERENT, BUT APPARENTLY EQUAL, TO ARCHITECT FOR A DECISION BEFORE PROCEEDING.
  - ABATEMENT WORK WILL BE UNDER SEPARATE CONTRACT. OBTAIN AND MAINTAIN ON SITE A COMPLETE SET OF ABATEMENT DOCUMENTS, INCLUDING ADDENDA AND CHANGES AFTER START OF CONSTRUCTION, FOR REFERENCE AND COORDINATION BY ALL TRADES. COORDINATE ALL DEMOLITION AND CONSTRUCTION WORK WITH THE ABATEMENT CONTRACTOR.
  - BUILDING CONTAINS HAZARDOUS MATERIAL SUCH AS ASBESTOS AND LEAD PAINT. SUPPLEMENTAL HAZARDOUS MATERIAL REPORT IS PROVIDED IN THE BID DOCUMENTS AS A SEPARATE ATTACHMENT. REFER TO HAZARDOUS MATERIAL REPORT FOR EXTENTS OF TESTING AND RESULTS.
  - THE INDICATION OF TYPE AND LOCATION OF EXISTING CONDITIONS AND MATERIALS IN THE DRAWINGS IS NOT INTENDED AS EXACT DOCUMENTATION OF IN-PLACE CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS BEFORE SUBMISSION OF BIDS. EXISTING CONDITIONS VARYING FROM THOSE SHOWN IN THE DRAWINGS WILL NOT BE JUSTIFICATION FOR ADDITIONAL ALLOWANCE TO THE CONTRACTOR. NOTIFY THE ARCHITECT IMMEDIATELY IF ANY CONDITIONS CONFLICT WITH THE DRAWINGS.
  - PROTECT ALL BUILDING SYSTEMS, NEW AND EXISTING, COVER SUPPLY, RETURN, AND EXHAUST AIR GRILLES, AND PROTECT OTHER SENSITIVE EQUIPMENT FROM ALL ACTIVITIES RELATED TO THIS CONTRACT. REMOVE PROTECTION AT END OF CONSTRUCTION.
  - ALL DISSIMILAR METALS SHALL BE ISOLATED FROM EACH OTHER EVEN IF NOT SPECIFICALLY IDENTIFIED IN THE CONTRACT DOCUMENTS.
  - ALL CODE-REQUIRED LABELS SUCH AS "UL", "FACTORY MUTUAL", OR ANY EQUIPMENT IDENTIFICATION, PERFORMANCE RATING, NAME, OR NOMENCLATURE PLATES SHALL REMAIN READABLE AND NOT PAINTED OR COVERED BY OTHER CONSTRUCTION.
  - STRUCTURAL INFORMATION ON ARCHITECTURAL DRAWINGS IS FOR REFERENCE ONLY.
  - ARCHITECTURAL DIMENSIONS AND DESIGN INTENT ARE INDICATED ON ARCHITECTURAL DRAWINGS. IF THE INSTALLATION OF EQUIPMENT FROM OTHER TRADES INTERFERES WITH COMPLIANCE OF THE DESIGN INTENT, NOTIFY THE ARCHITECT BEFORE PROCEEDING.
  - DO NOT SCALE DRAWINGS: DIMENSIONS GOVERN LOCATION OF BUILDING ELEMENTS. IF DIMENSIONS ARE NOT AVAILABLE, CONTACT THE ARCHITECT.
  - WHEN DIMENSIONS ON SMALL SCALE DRAWINGS CONFLICT WITH THOSE ON LARGE SCALE DRAWINGS, THE LARGE SCALE DRAWINGS GOVERN.

**GENERAL SYMBOLS LEGEND**



**KEY PLAN**

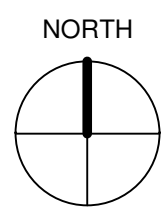


**C6** BASEMENT FLOOR PLAN  
1/8" = 1'-0" 0 12"

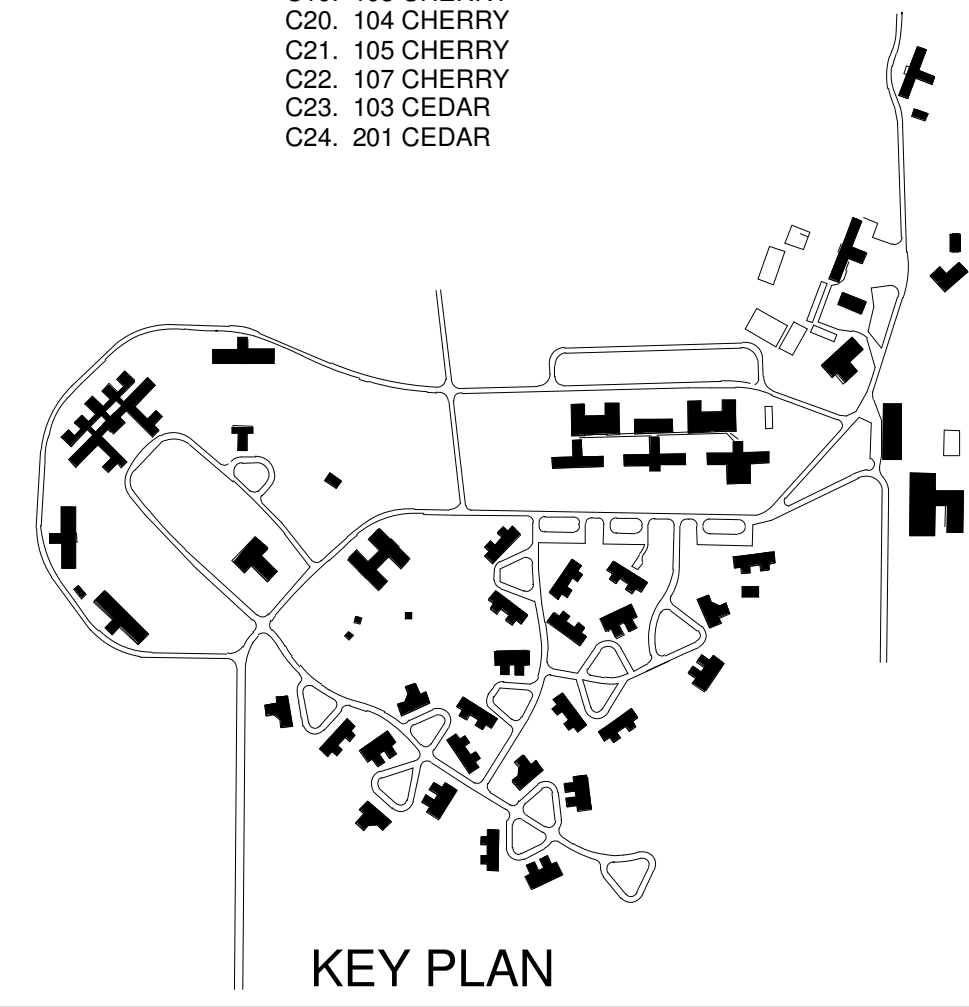
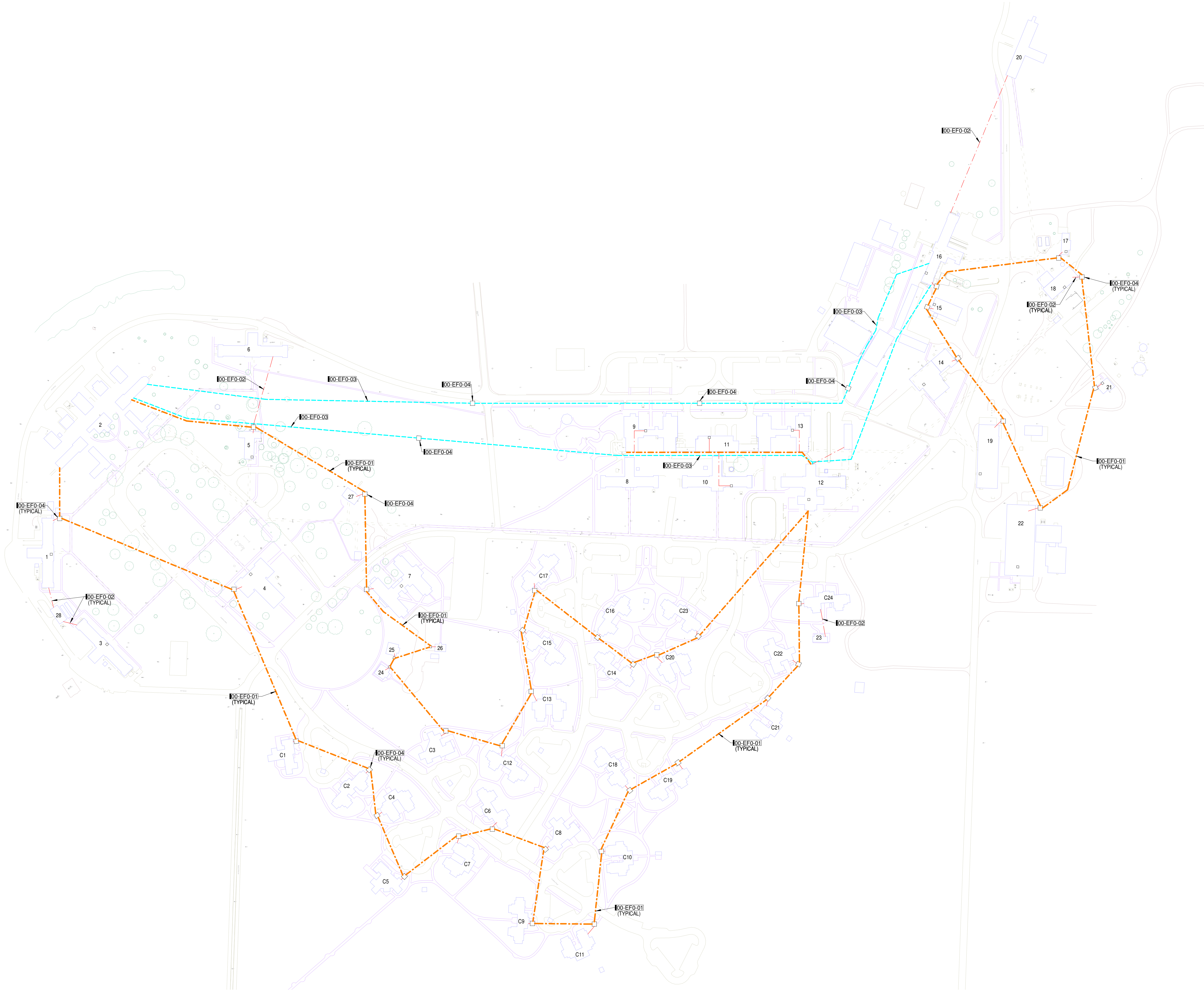


A			B			C			D			E		
ELECTRICAL SYMBOL LEGEND														
HT AFF	SYMBOL	DESCRIPTION	HT AFF	SYMBOL	DESCRIPTION	HT AFF	SYMBOL	DESCRIPTION	HT AFF	SYMBOL	DESCRIPTION	HT AFF	SYMBOL	DESCRIPTION
		SURFACE LIGHT (TYPE DENOTED)	18"		RECESSED LIGHT (TYPE DENOTED)			CONDUIT CONCEALED IN WALL OR OVERHEAD			MANUAL PULL STATION (46"			AUDIO NOTIFICATION DEVICE - CEILING MOUNTED
		RECESSED LIGHT (TYPE DENOTED)			POWER POLE (OPEN OFFICE STYLE)			CONDUIT CONCEALED BELOW FLOOR			CONDUIT TRANSITION UP			CONDUIT TRANSITION DOWN
PER SCHED		WALL MOUNTED LIGHT (TYPE DENOTED)			ELECTRICAL CONNECTION (SEE SCHEDULE)			CONDUIT TRANSITION DOWN			CONDUIT STUBBED OUT			BRANCH CIRCUIT HOME RUN
PER SCHED		WALL MOUNTED FLOOD LIGHT (TYPE DENOTED)			JUNCTION BOX			CABLE TRAY (TYPE DENOTED)			CONDUIT SLEEVE (SIZE DENOTED)			WALL TELEPHONE OUTLET (TYPE DENOTED)
		SURFACE LIGHT (TYPE DENOTED)	AS NOTED		CIRCUIT BREAKER PANEL	48"***		SPECIAL CABINET (TYPE DENOTED)	18" UNO		TELEPHONE OUTLET (TYPE DENOTED)	18" UNO		DATA OUTLET (INDICATED QTY CABLES)
	SUSPENDED OR PENDANT LIGHT (TYPE DENOTED)		72"***		TRANSFORMER (TYPE DENOTED)	18" UNO		GENERATOR (KVA DENOTED)	18" UNO		MOTOR (SEE SCHEDULE)	18" UNO		MOTORIZED DAMPER
	RECESSED LIGHT (TYPE DENOTED)		72"***		SAFETY DISCONNECTION SWITCH			ADJUSTABLE SPEED DRIVE			RELAY			OCCUPANCY SENSOR (TYPE DENOTED)
PER SCHED		SITE POLE MOUNTED LIGHT (TYPE DENOTED)			LIGHT LEVEL SENSOR (TYPE DENOTED)	72"***		PHOTOCELL	84"		CCTV CAMERA (TYPE DENOTED)	84"		SPRINKLER FLOW SWITCH
PER SCHED		SITE BOLLARD LIGHT (TYPE DENOTED)			INTERCOM MASTER			KEYED NOTE (SEE SCHEDULE)	60"		SPRINKLER VALVE TAMPER SWITCH	60"		CONTACT SENSING CONTROL MODULE
AS NOTED		TRACK AND TRACK LIGHT (TYPE DENOTED)			RELAY OUTPUT CONTROL MODULE	AS NOTED		DUPLEX RECEPTACLE	60"		RELAY OUTPUT CONTROL MODULE	60"		DUPLEX RECEPTACLE
96"		EMERGENCY BATTER LIGHT (TYPE DENOTED)			DUPLEX RECEPTACLE	48"		FOURPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE
		EXIT SIGN (TYPE DENOTED)			DUPLEX RECEPTACLE	48"		DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE
AS NOTED		LIGHT FIXTURE ON EMERGENCY CIRCUIT			DUPLEX RECEPTACLE	48"		DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE
		LIGHTING CONTROL DENOTATION			DUPLEX RECEPTACLE			DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE
48"		SINGLE POLE SWITCH			DUPLEX RECEPTACLE			DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE
48"		3-WAY SWITCH			DUPLEX RECEPTACLE			DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE
48"		4-WAY SWITCH			DUPLEX RECEPTACLE			DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE
48"		KEYED SWITCH			DUPLEX RECEPTACLE			DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE
48"		DIMMER SWITCH			DUPLEX RECEPTACLE			DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE
48"		OCCUPANCY SENSOR SWITCH			DUPLEX RECEPTACLE			DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE
48"		MOMENTARY CONTACT SWITCH			DUPLEX RECEPTACLE			DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE
48"		TIMER SWITCH			DUPLEX RECEPTACLE			DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE
48"		FAN SPEED CONTROL			DUPLEX RECEPTACLE			DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE
48"		MOTOR HORSEPOWER RATED SWITCH			DUPLEX RECEPTACLE			DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE
48"		PUSH BUTTON			DUPLEX RECEPTACLE			DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE
48"		DURESS PUSH BUTTON, UNDER COUNTER			DUPLEX RECEPTACLE			DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE
18" UNO		DUPLEX RECEPTACLE			DUPLEX RECEPTACLE			DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE
18" UNO		FOURPLEX RECEPTACLE			DUPLEX RECEPTACLE			DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE	60"		DUPLEX RECEPTACLE
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1 ELECTRICAL SITE PLAN - FIBER OPTIC OVERALL PLAN  
1" = 150'-0" 0' 225'



KEY PLAN

KEYNOTES	
KEY	NOTE
00-EF0-01	4" CONDUIT
00-EF0-02	2" CONDUIT
00-EF0-03	NETWORK BACKBONE
00-EF0-04	FIBER OPTIC HAND-HOLE

WRC LEGEND

- BUILDINGS**
1. WESTWOOD
  2. ADMINISTRATION
  3. LARCHES
  4. MYERS HALL
  5. CHAPEL
  6. HEMLOCK
  7. EMPLOYEE HOME
  8. MAPLE LODGE
  9. LINDEN COURT A/B
  10. ELMCREST
  11. CAMPUS FOOD SERVICE
  12. MEDICAL CENTER
  13. LINDEN COURT C/D
  14. LAUNDRY
  15. GARAGE
  16. BIRCHES
  17. CAR WASH
  18. POWER HOUSE
  19. SUPPLY DEPOT
  20. OAK HALL
  21. WATER TREATMENT
  22. DISTRIBUTION
  23. THE LODGE
  24. STATEROOM 4
  25. STATEROOM 3
  26. STATEROOM 2
  27. STATEROOM 1
  28. STORAGE BUILDING
- COTTAGES**
- C1. 101 FRANKLIN
  - C2. 103 FRANKLIN
  - C3. 104 FRANKLIN
  - C4. 105 FRANKLIN
  - C5. 107 FRANKLIN
  - C6. 108 FRANKLIN
  - C7. 109 FRANKLIN
  - C8. 200 FRANKLIN
  - C9. 201 FRANKLIN
  - C10. 202 FRANKLIN
  - C11. 203 FRANKLIN
  - C12. 202 PINE
  - C13. 204 PINE
  - C14. 301 PINE
  - C15. 302 PINE
  - C16. 303 PINE
  - C17. 304 PINE
  - C18. 101 CHERRY
  - C19. 103 CHERRY
  - C20. 104 CHERRY
  - C21. 105 CHERRY
  - C22. 107 CHERRY
  - C23. 103 CEDAR
  - C24. 201 CEDAR

OVERALL  
ELECTRICAL  
FIBER SITE PLAN

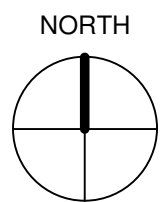
WRC CAMPUS FIBER UPGRADES (#9279.40) BID ISSUANCE # 2

DRAWN BY	RVL
APPROVED BY	KUB
ISSUED FOR	CONSTRUCTION
ISSUE DATE	2025-04-25
PROJECT NUMBER	2240007940
FIELD BOOK	

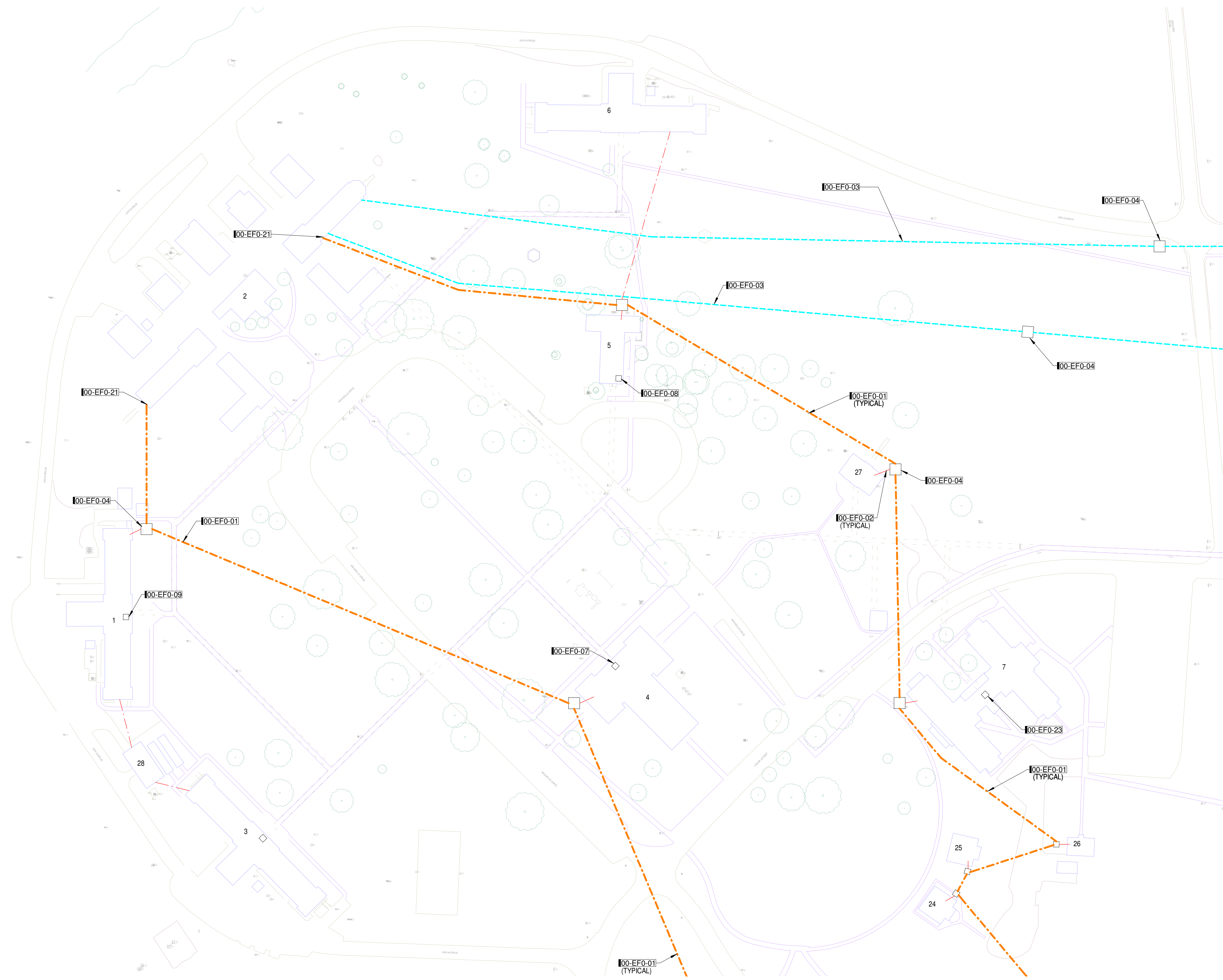
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Iowa Department of Administrative Services  
1231 334th St, Woodward, IA 50276

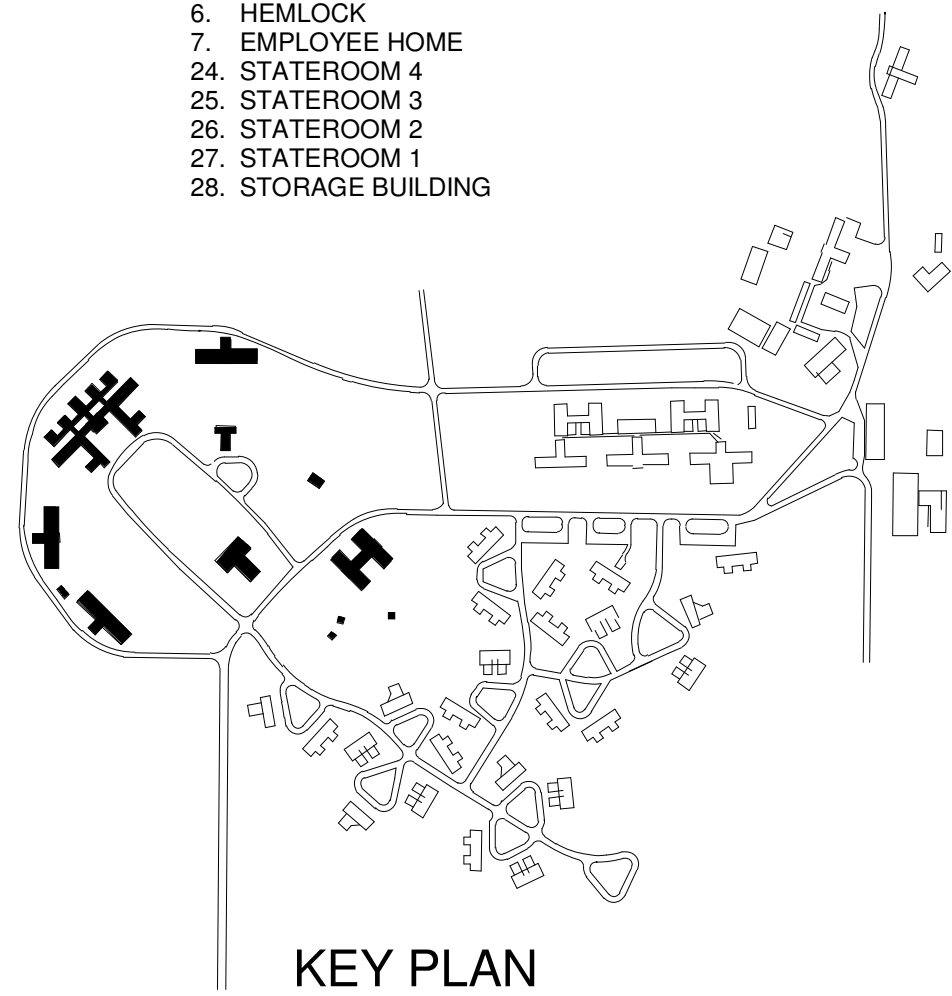




1 WEST ELECTRICAL SITE PLAN - FIBER OPTIC PLAN  
1" = 80'-0" 0' 120'



- WRC LEGEND**
- WEST BUILDINGS
1. WESTWOOD
  2. ADMINISTRATION
  3. LARCHES
  4. MYERS HALL
  5. CHAPEL
  6. HEMLOCK
  7. EMPLOYEE HOME
  24. STATEROOM 4
  25. STATEROOM 3
  26. STATEROOM 2
  27. STATEROOM 1
  28. STORAGE BUILDING



KEY PLAN

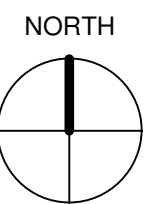
KEYNOTES	
KEY	NOTE
00-EF0-01	4" CONDUIT
00-EF0-02	2" CONDUIT
00-EF0-03	NETWORK BACKBONE
00-EF0-04	FIBER OPTIC HAND-HOLE
00-EF0-07	LOCATION OF IDF ON FIRST FLOOR. TERMINATE FIBER AT THIS LOCATION. SURFACE MOUNT 2" EMT CONDUIT FROM EXTERIOR OF THE BUILDING TO IDF. INSTALL FIBER IN THE CONDUIT. EXISTING FACP INSTALLED NEAR FIBER ENTRANCE. INSTALL 6 STRAND OF FIBER FROM FIBER ENTRANCE TO FACP. REPLACE EXISTING MULTI-MODE FIBER CONVERTER IN SIEMENS FACP WITH SINGLE MODE FIBER CONVERTER. INSTALL 6 STRAND FIBER IN 3/4" EMT CONDUIT.
00-EF0-08	LOCATION OF IDF ON FIRST FLOOR. TERMINATE FIBER AT THIS LOCATION. INSTALL 2" EMT CONDUIT ABOVE ACCESSIBLE CEILING AND IN ATTIC SPACE OF CHAPEL. INSTALL FIBER IN THE CONDUIT. EXISTING FACP INSTALLED NEAR FIBER ENTRANCE. INSTALL 6 STRAND OF FIBER FROM FIBER ENTRANCE TO FACP. REPLACE EXISTING MULTI-MODE FIBER CONVERTER IN SIEMENS FACP WITH SINGLE MODE FIBER CONVERTER. INSTALL 6 STRAND FIBER IN 3/4" EMT CONDUIT.
00-EF0-09	LOCATION OF IDF ON BASEMENT FLOOR. TERMINATE FIBER AT THIS LOCATION. SURFACE MOUNT 2" EMT CONDUIT IN BASEMENT FROM EXTERIOR OF THE BUILDING TO IDF. INSTALL FIBER IN THE CONDUIT. EXISTING FACP INSTALLED NEAR FIBER ENTRANCE. INSTALL 6 STRAND OF FIBER FROM FIBER ENTRANCE TO FACP. REPLACE EXISTING MULTI-MODE FIBER CONVERTER IN SIEMENS FACP WITH SINGLE MODE FIBER CONVERTER. INSTALL 6 STRAND FIBER IN 3/4" EMT CONDUIT.
00-EF0-21	LOCATION FOR MDF. REFER TO 00-EF106 FOR THE FLOOR PLAN OF THE BUILDING.
00-EF0-23	LOCATION OF IDF ON FIRST FLOOR. TERMINATE ALL FIBER AT THIS LOCATION. SURFACE MOUNT 2" EMT CONDUIT FROM EXTERIOR OF THE BUILDING TO IDF. INSTALL FIBER IN THE CONDUIT. EXISTING FACP INSTALLED NEAR FIBER ENTRANCE. INSTALL 6 STRAND OF FIBER FROM FIBER ENTRANCE TO FACP. INSTALL 6 STRAND FIBER IN 3/4" EMT CONDUIT.

DRAWN BY	RVL
APPROVED BY	KUB
ISSUED FOR	CONSTRUCTION
ISSUE DATE	2025-04-25
PROJECT NUMBER	2240007940
FIELD BOOK	

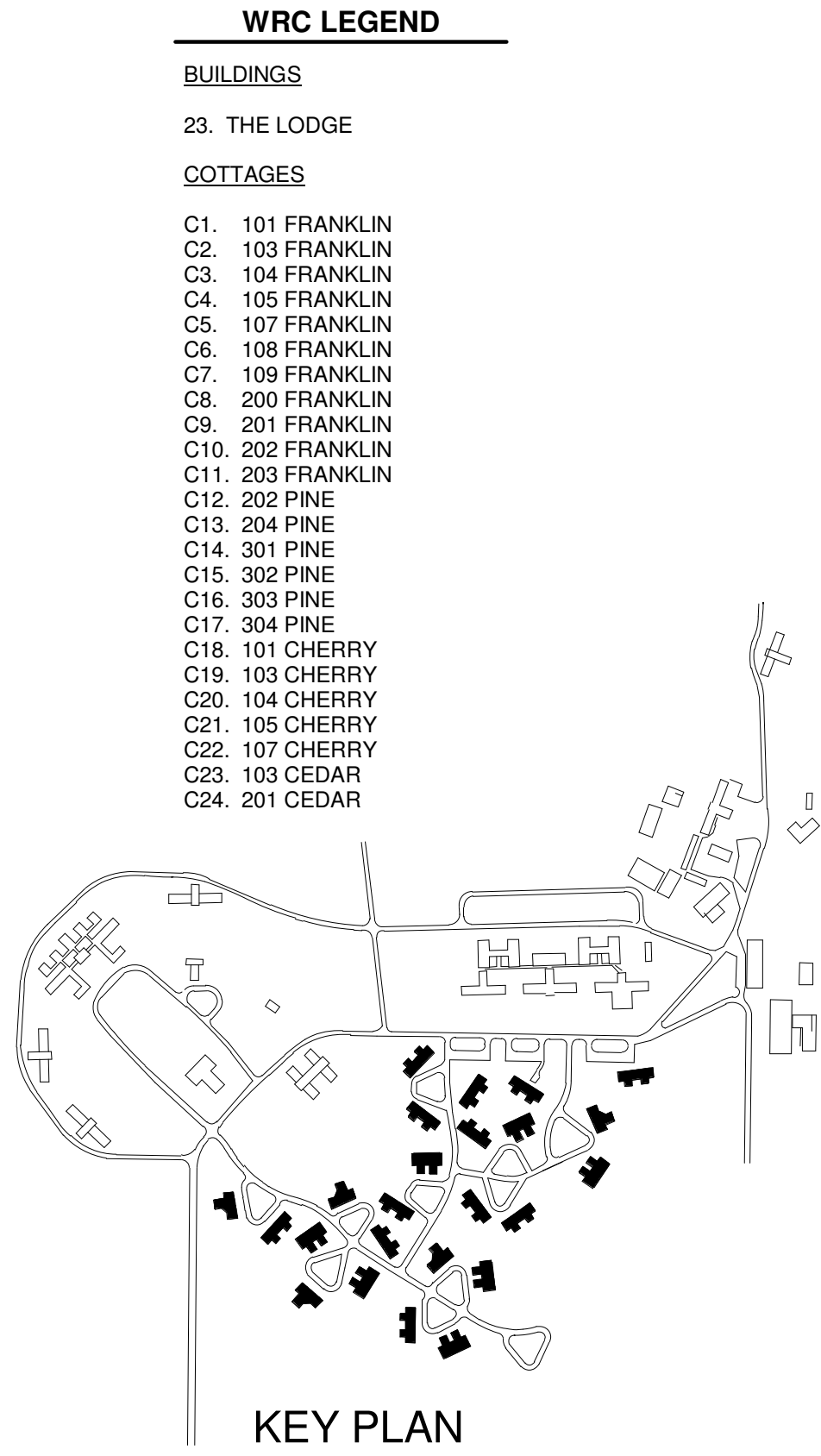


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A B C D E F G H



1 COTTAGE ELECTRICAL SITE PLAN - FIBER OPTIC PLAN  
1" = 80'-0" 0' 120'



KEY PLAN

- WRC LEGEND**
- BUILDINGS**
23. THE LODGE
- COTTAGES**
- C1. 101 FRANKLIN  
C2. 103 FRANKLIN  
C3. 104 FRANKLIN  
C4. 105 FRANKLIN  
C5. 107 FRANKLIN  
C6. 108 FRANKLIN  
C7. 109 FRANKLIN  
C8. 200 FRANKLIN  
C9. 201 FRANKLIN  
C10. 202 FRANKLIN  
C11. 203 FRANKLIN  
C12. 202 PINE  
C13. 204 PINE  
C14. 301 PINE  
C15. 302 PINE  
C16. 303 PINE  
C17. 304 PINE  
C18. 101 CHERRY  
C19. 103 CHERRY  
C20. 104 CHERRY  
C21. 105 CHERRY  
C22. 107 CHERRY  
C23. 103 CEDAR  
C24. 201 CEDAR

KEYNOTES	
KEY	NOTE
00-EF0-01	4" CONDUIT
00-EF0-02	2" CONDUIT
00-EF0-04	FIBER OPTIC HAND-HOLE
00-EF0-11	ROUTE 2" CONDUIT EXTERIOR TO THE BUILDING TO THE SOFFIT. ROUTE FIBER IN CONDUIT AND IN ATTIC SPACE OF THE COTTAGE. FIBER TO BE INSTALLED IN CONDUIT IN THE ATTIC. REFER TO 00-EF-105 FOR TYPICAL LAYOUTS OF THE COTTAGES.

COTTAGE  
ELECTRICAL SITE  
PLAN

WRC CAMPUS FIBER UPGRADES (#9279.40) BID ISSUANCE # 2

SHIVE-HATTERY  
ARCHITECTURE+ENGINEERING

SEAL

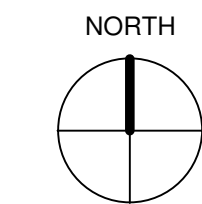
DRAWN BY	RVL
APPROVED BY	KJB
ISSUED FOR	CONSTRUCTION
ISSUE DATE	2025-04-25
PROJECT NUMBER	2240007040
FIELD BOOK	

Iowa Department of Administrative Services  
1231 334th St, Woodward, IA 50276

00-EF102

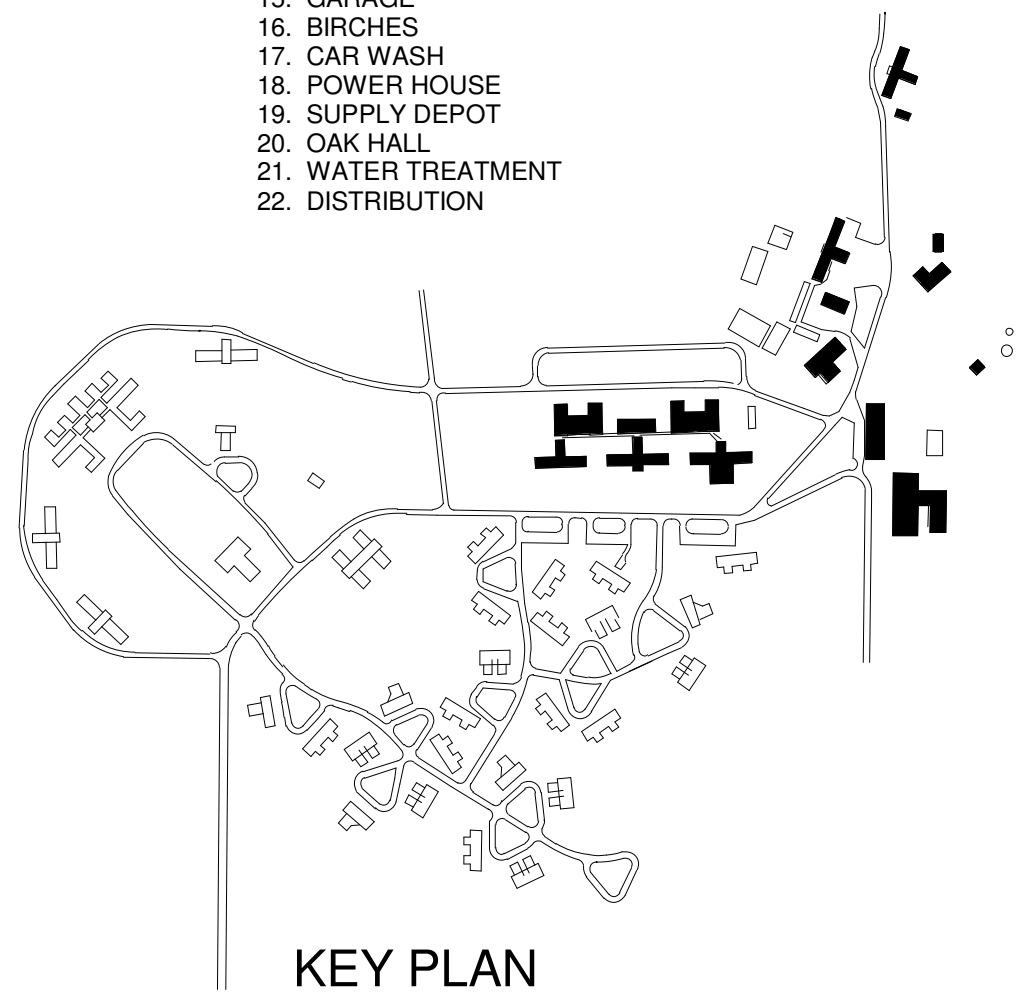
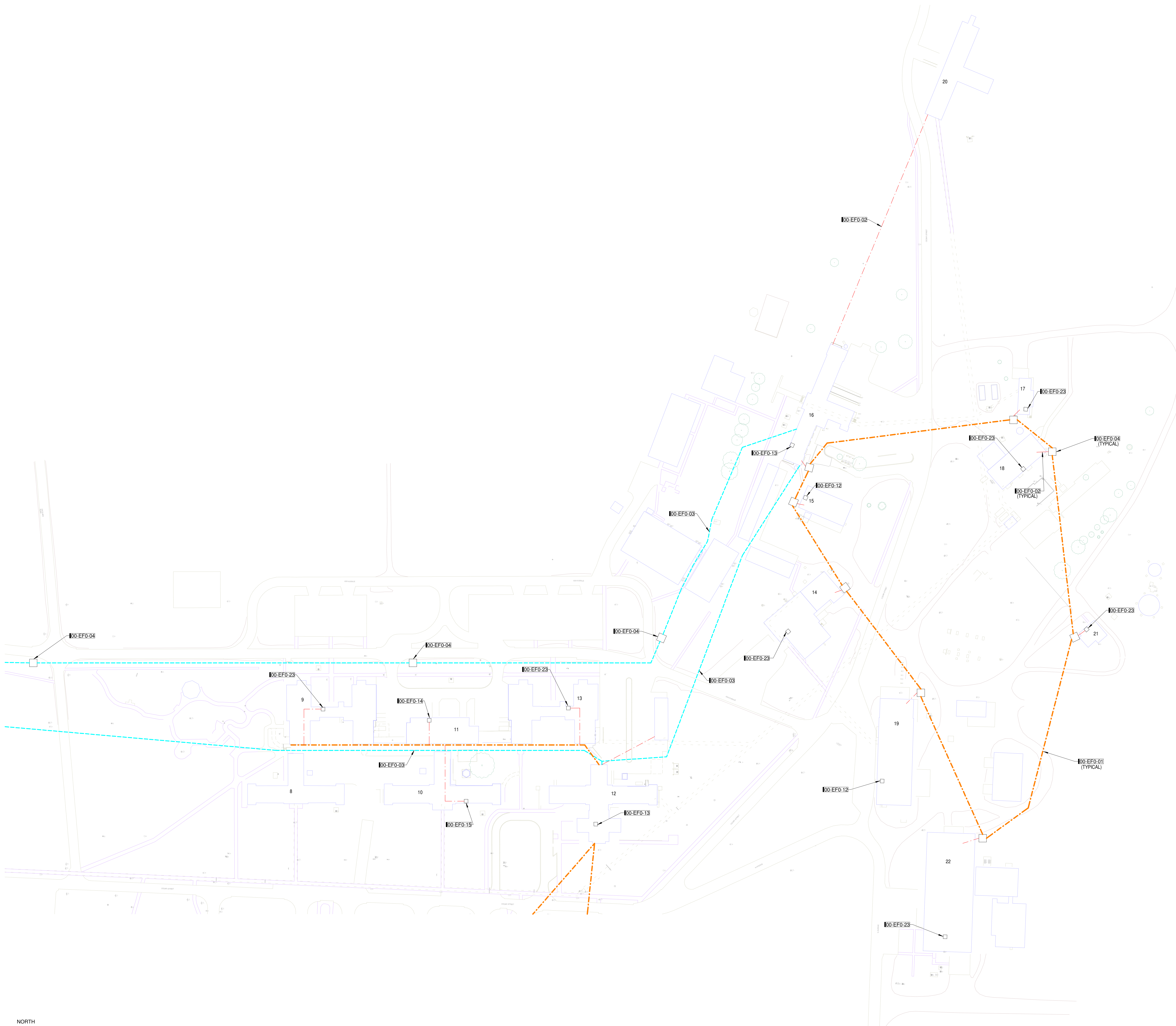
4125 WESTOWN PKWY, SUITE 100  
WEST DES MOINES, IA 50396  
515.223.9104 | SHIVE-HATTERY.COM





1 NORTH ELECTRICAL SITE PLAN - FIBER OPTIC PLAN

1" = 80'-0" 0 120'



KEY PLAN

WRC LEGEND

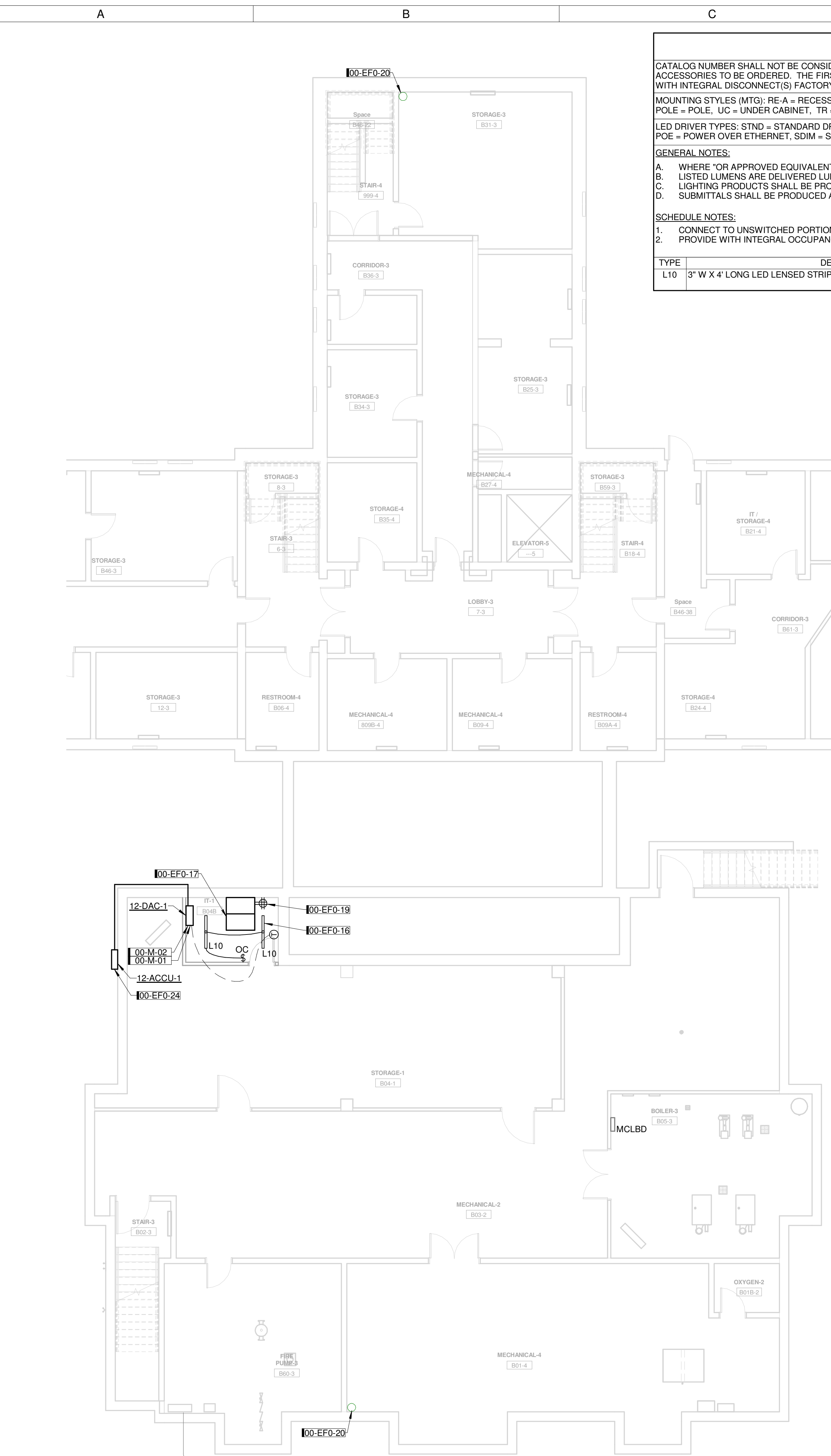
NORTH BUILDINGS

- 8. MAPLE LODGE
- 9. LINDEN COURT A/B
- 10. ELMCREST
- 11. CAMPUS FOOD SERVICE
- 12. MEDICAL CENTER
- 13. LINDEN COURT C/D
- 14. LAUNDRY
- 15. GARAGE
- 16. BIRCHES
- 17. CAR WASH
- 18. POWER HOUSE
- 19. SUPPLY DEPOT
- 20. ONK HALL
- 21. WATER TREATMENT
- 22. DISTRIBUTION

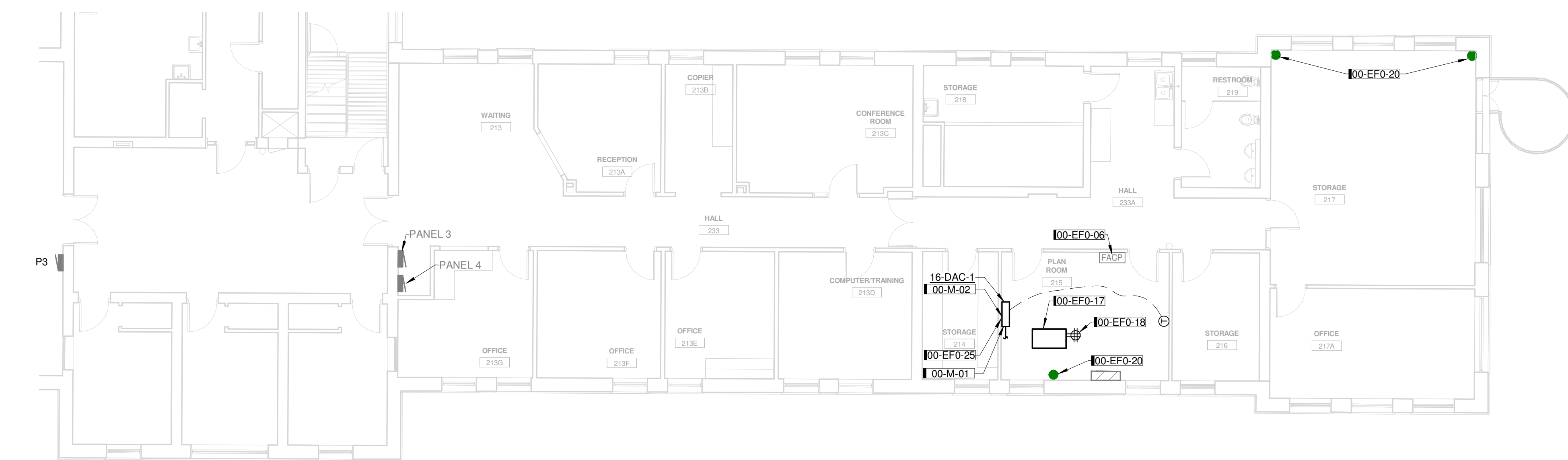
KEYNOTES	
KEY	NOTE
00-EF0-01	4" CONDUIT
00-EF0-02	2" CONDUIT
00-EF0-03	NETWORK BACKBONE
00-EF0-04	FIBER OPTIC HAND-HOLE
00-EF0-12	LOCATION OF IDF ON FIRST FLOOR. TERMINATE ALL FIBER AT THIS LOCATION. SURFACE MOUNT 2" EMT CONDUIT FROM EXTERIOR OF THE BUILDING TO IDF. INSTALL FIBER IN THE CONDUIT. EXISTING FACP INSTALLED NEAR FIBER ENTRANCE. INSTALL 6 STRAND OF FIBER FROM FIBER ENTRANCE TO FACP. REPLACE EXISTING MULTI-MODE FIBER CONVERTER IN SIEMENS FACP WITH SINGLE MODE FIBER CONVERTER. INSTALL 6 STRAND FIBER IN 3/4" EMT CONDUIT.
00-EF0-13	LOCATION FOR MDF. REFER TO 00-EF104 FOR THE FLOOR PLAN OF THE BUILDING. SURFACE MOUNT 2" EMT CONDUIT FROM EXTERIOR OF THE BUILDING TO MDF. INSTALL FIBER IN THE CONDUIT.
00-EF0-14	LOCATION OF IDF ON BASEMENT FLOOR. TERMINATE ALL FIBER AT THIS LOCATION. SURFACE MOUNT 2" EMT CONDUIT FROM TUNNEL TO IDF. INSTALL FIBER IN THE CONDUIT. EXISTING FACP INSTALLED NEAR FIBER ENTRANCE. INSTALL 6 STRAND OF FIBER FROM FIBER ENTRANCE TO FACP. REPLACE EXISTING MULTI-MODE FIBER CONVERTER IN SIEMENS FACP WITH SINGLE MODE FIBER CONVERTER. INSTALL 6 STRAND FIBER IN 3/4" EMT CONDUIT.
00-EF0-15	LOCATION OF IDF ON FIRST FLOOR. TERMINATE ALL FIBER AT THIS LOCATION. SURFACE MOUNT 2" EMT CONDUIT FROM TUNNEL TO IDF. INSTALL FIBER IN THE CONDUIT. EXISTING FACP INSTALLED NEAR FIBER ENTRANCE. INSTALL 6 STRAND OF FIBER FROM FIBER ENTRANCE TO FACP. REPLACE EXISTING MULTI-MODE FIBER CONVERTER IN SIEMENS FACP WITH SINGLE MODE FIBER CONVERTER. INSTALL 6 STRAND FIBER IN 3/4" EMT CONDUIT.
00-EF0-23	LOCATION OF IDF ON FIRST FLOOR. TERMINATE ALL FIBER AT THIS LOCATION. SURFACE MOUNT 2" EMT CONDUIT FROM EXTERIOR OF THE BUILDING TO IDF. INSTALL FIBER IN THE CONDUIT. EXISTING FACP INSTALLED NEAR FIBER ENTRANCE. INSTALL 6 STRAND OF FIBER FROM FIBER ENTRANCE TO FACP. INSTALL 6 STRAND FIBER IN 3/4" EMT CONDUIT.

DRAWN BY	RVL
APPROVED BY	KUB
ISSUED FOR	CONSTRUCTION
ISSUE DATE	2025-04-25
PROJECT NUMBER	2240007040
FIELD BOOK	

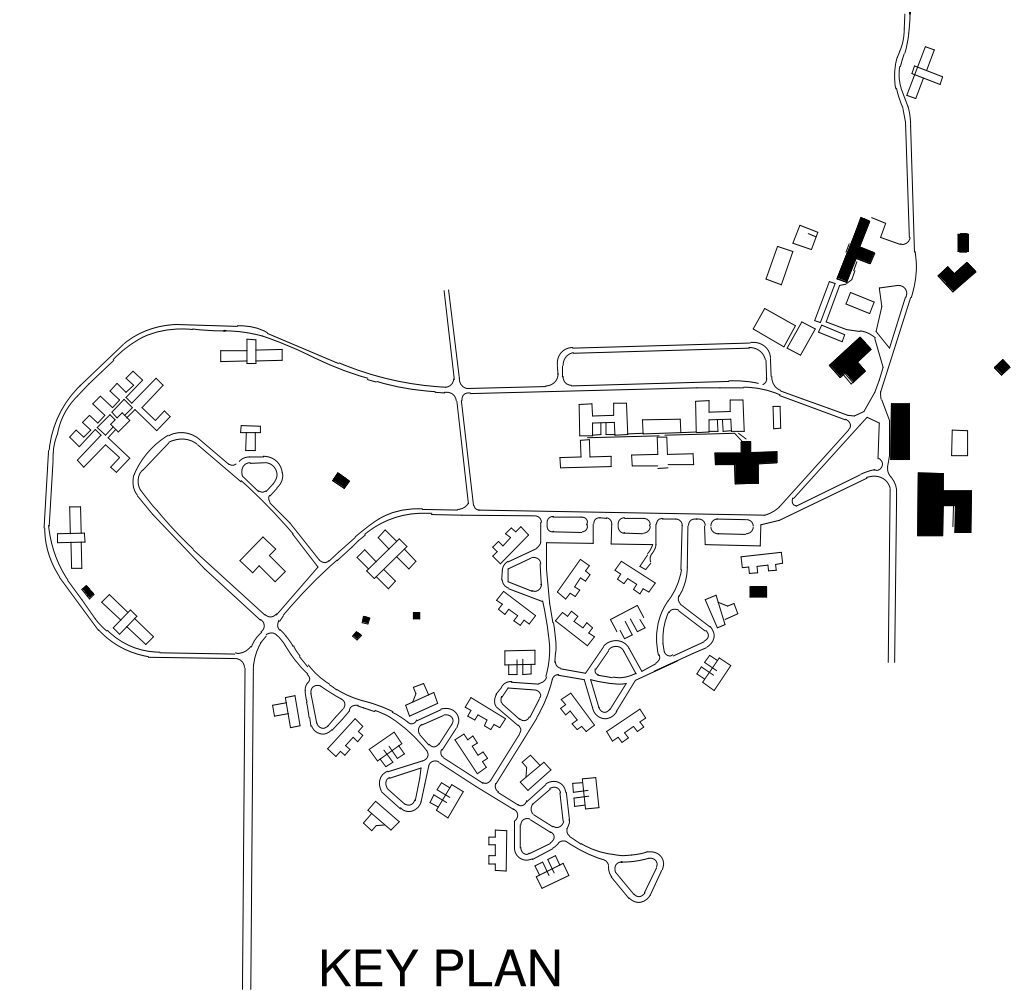




1 BASEMENT LEVEL MEDICAL CENTER - SYSTEMS FIBER OPTICS PLAN



2 SECOND FLOOR - BIRCHES FIBER OPTIC SYSTEMS PLAN



## KEY PLAN

KEY		NOTE
00-EF-06	LOCATION OF EXIST. INST. 6 STRAND FIBER FROM FIBER ENTRANCE TO FACP. REPLACE EXISTING INST. 1 MODEM FIBER CONVERTER IN SIEMENS FACP WITH SINGLE MODE FIBER CONVERTER. ALL FIBER TO BE INSTALLED IN 2" EMT CONDUIT.	
00-EF-16	CIRCUIT NEW LIGHTS TO EXISTING LIGHTING CIRCUIT. RELOCATE EXISTING LIGHT FIXTURES AS REQUIRED TO ACCOMMODATE THE NEW ROOM.	
00-EF-17	NEW FOUR POST FOOT MOUNTED RACK. TRIPPIE LITE SP48HXEXPND OR ENGINEER PRE-APPROVED EQUIV.	
00-EF-18	CIRCUIT RECEPTACLE TO SPARE 20A/1P BREAKER IN PANEL P3. CIRCUIT WITH 2#12 AND 1#12 GND IN 3/4" C.	
00-EF-19	CIRCUIT RECEPTACLE TO SPARE 20A/1P BREAKER IN MCLCB. CIRCUIT WITH 2#12 AND 1#12 GND IN 3/4" C.	
00-EF-20	FIBER TO EXIT THE BASEMENT OF THE BUILDING FROM THIS LOCATION E1 CIRCUIT 12-ACCU-1 TO NEW 20A/2P BREAKER IN EXISTING PANEL MCLCB. OUTDOOR UNIT FEED INTO DOOR FEED UNIT 12-10AC-1.	
00-EF-24	E2 CIRCUIT 16-ACCU-1 TO NEW 20A/2P BREAKER IN EXISTING PANEL P3. OUTDOOR UNIT FEED INTO DOOR UNIT 12-10AC-1. 16-ACCU-1 TO BE INSTALLED ON POOL.	
00-M-01	INSTALL DUCTLESS AIR CONDITIONER ON WALL. ROUTE REFRIGERANT PIPING TO AIR COOLED CONDENSING UNIT AND SEAL ALL NEW DUCTING ENVELOPE PENETRATING THE BUILDING. REFRIGERANT PIPE SIZES SHALL BE PER UNIT MANUFACTURER'S REQUIREMENTS.	
00-M-02	FIELD ROUTE PUMPED CONDENSATE PIPING FROM ANY WALKING UT TO NEAREST FLOOR DRAIN. ROUTING SHALL NOT IMPEDIE ANY PAVING PATH OR CONFLICT WITH ANY REQUIRED CLEARANCES.	

DUCTLESS AIR CONDITIONER SCHEDULE								
REMARKS:								
1. OR ENGINEER APPROVED EQUIVALENT								
2. MOUNT OF WALL USING MANUFACTURER APPROVED WALL MOUNTING BRACKETS.								
3. THERMOSTAT TO BE PROVIDED BY MECHANICAL CONTRACTOR.								
4. PROVIDE AND INSTALL DISCONNECT SWITCH FOR EACH DUCTLESS AIR CONDITIONER.								
5. PROVIDE WITH CONDENSATE PUMP KIT.								
MARK	GFM	COOLING (MBH)	OPERATING WEIGHT	REFRIGERANT USED	ELECTRICAL DATA VOLTS PHASE MCA		DESIGN BASIS	REMARKS
12-DAC-1	316	12	33	R-32	208	1	9.2	DAIKIN FTKF12AXXJU
16-DAC-1	316	12	33	R-32	208	1	9.2	DAIKIN FTKF12AXXJU

AIR COOLED CONDENSING UNIT SCHEDULE											
REMARKS:											
1. OR ENGINEER APPROVED EQUIVALENT											
2. TO BE INSTALLED WITH WALL MOUNTING KIT.											
3. TO BE INSTALLED WITH LOW AMBIENT OPERATING KIT.											
4. PROVIDE MIRO UNIFLEX MINI SPLIT RAIL, OR ENGINEER PRE-APPROVED EQUIVALENT, AND INSTALL WITH EPDM MEMBRANE SLIP SHEET BELOW STANDING FEET.											
MARK	CAPACITY (MSH)	COND AMBIENT AIR TEMP (F)	MINIMUM OPERATING AMBIENT TEMPERATURE	SEER	ELECTRICAL DATA			OPERATING WEIGHT	REFRIGERANT TYPE	DESIGN BASIS	REMARKS
					VOLTS	PHASE	MCA				
12-ACCU-1	12	95	-4	21	208	1	9.2	60	R32	DAIKIN RFK12AXVJU	1.2,3
16-ACCU-1	12	95	-4	21	208	1	9.2	60	R32	DAIKIN RFK12AXVJU	1.3,4

**NOTE:**

BUILDING CONTAINS HAZARDOUS MATERIAL SUCH AS ASBESTOS AND LEAD PAINT. SUPPLEMENTAL HAZARDOUS MATERIAL REPORT IS PROVIDED IN THE BID DOCUMENTS AS A SEPARATE ATTACHMENT. REFER TO HAZARDOUS MATERIAL REPORT FOR EXTENTS OF TESTING AND RESULTS

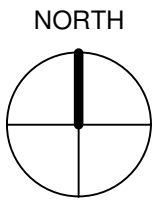
LIGHTING FIXTURE SCHEDULE										
<p>CATALOG NUMBER SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. THE DESCRIPTION AND THE SPECIFICATIONS SHALL BE COORDINATED WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE FIRST MANUFACTURER LISTED IS THE BASIS FOR DESIGN. ALL LAMPS/LIGHT SOURCES FOR THIS PROJECT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. ALL LIGHT FIXTURES SHALL BE PROVIDED WITH ELECTRICAL DISCONNECT(S) FACTORY INSTALLED IN ACCORDANCE WITH NEC. REFER TO SPECIFICATIONS FOR SHOP DRAWING SUBMITTAL REQUIREMENTS AND ADDITIONAL INFORMATION.</p> <p>MOUNTING STYLES (MTG): RE- = RECESSED (ACT), RE-G = RECESSED (GYP), RE-W = RECESSED (WALL), CL = CEILING SURFACE, PW = PERIMETER WALL, SP = SUSPENDED (AIR-CRAFT CABLE), ST = STEM, WL = WALL, WL-H = WALL HORIZONTAL, WL-V = WALL VERTICAL, UNV = UNIVERSAL, POLE = POLE, UC = UNDER CABINET, TR = TRACK, GND = GROUND</p> <p>LED DRIVER TYPES: STD = STANDARD DRIVER, DIM10 = 0-10V 10% DIMMING, DIM1 = 0-10V 1% DIMMING, DIMD = 0-10V DIM TO DARK, STEP = STEP DIMMING, NOND = NON-DIMMING, DALI = DIGITAL ADDRESSABLE LIGHTING INTERFACE, DMX = DIGITAL MULTIPLEX, LUTR = LUTRON HI-LUME, POE = POWER OVER ETHERNET, SDIM = STEP DIMMING</p> <p>GENERAL NOTES:</p> <p>A. WHERE "OR APPROVED EQUIVALENT" IS LISTED IN THE MANUFACTURER COLUMN, FIXTURES MUST BE SUBMITTED AS A SUBSTITUTION FOR APPROVAL PRIOR TO BID SUBMISSION.</p> <p>B. LISTED LUMENS ARE DELIVERED LUMENS. PROVIDE FIXTURE WITHIN +/- 5% OF LISTED LUMENS.</p> <p>C. LIGHTING PRODUCTS SHALL BE PROVIDED THROUGH THE AUTHORIZED LIGHTING MANUFACTURER'S REPRESENTATIVE RESIDING WITHIN PROJECT LOCATION.</p> <p>D. SUBMITTALS SHALL BE PRODUCED AND SUBMITTED BY LOCAL AUTHORIZED LIGHTING MANUFACTURER'S REPRESENTATIVE. LETTERHEAD SHALL CONTAIN REPRESENTATIVES' CONTACT INFORMATION, PROJECT NAME, AND PROJECT LOCATION.</p> <p>SCHEDULE NOTES:</p> <p>1. CONNECT TO UNSWITCHED PORTION OF LIGHTING CIRCUIT.</p> <p>2. PROVIDE WITH INTEGRAL OCCUPANCY AND DAYLIGHTING WIRELESS SENSOR.</p>										
TYPE	DESCRIPTION	LENS-SOFTER	MTG	LIGHTING OUTPUT/CUT/CT	DRIVER	VOLT	WATT	BASIS OF DESIGN	APPROVED EQUIVALENT	NOTES
L10	3" W X 4' LONG LED LENSED STRIP, STEEL HOUSING	ACRYLIC SEMI-FROST LENS	GTP SP	LED, 3000 LUMENS, 4000K	DIM10	120	19	LITHONIA CLX	COLUMBIA MPS, DAY-BRITE FSS, APPROVED EQUIVALENT DACH-LED, LSI SDL, METALUX SNLD	

ELECTRICAL AND MECHANICAL COORDINATION SCHEDULE											
GENERAL NOTES:				ABBREVIATIONS:							
MOCIP SIZES SHOWN BELOW ARE FOR BIDDING PURPOSES ONLY. VERIFY MOCIP WITH EQUIPMENT NAME PLATE DATA PRIOR TO ORDERING EQUIPMENT. MINIMUM WIRE SIZE SHALL BE #12 AWG AND MINIMUM CONDUIT SIZE SHALL BE 3/4". INCLUDE A SEPARATE, GREEN, CONDUCTOR IN ALL FEEDER AND BRANCH CIRCUIT CONDUITS.				EC - ELECTRICAL CONTRACTOR MC - MECHANICAL CONTRACTOR MFR - MANUFACTURER TCC - TEMPERATURE CONTROL CONTRACTOR OWN - OWNER NF - NON-FUSED DISCONNECT PWE - PROVIDED WITH EQUIPMENT							
REMARKS:											
1. EC TO FURNISH AND INSTALL NON-FUSED DISCONNECT.											
MARK	VOLTAGE	PHASE	FLA	MCA	MOCIP	HP	WATTAGE	CONDUIT AND WIRE SIZE	CONTROLLER OR STARTER FURNISHED / INSTALLED	DISCONNECT FURNISHED / INSTALLED	REMARKS
12-ACCU-1	208	1	7.32	9.15	20.00	-	1218.05	2#12, 1#12 GND, 3/4" C	MC	EC	1
12-DAC-1	208	1	7.32	9.15	20.00	-	1218.05	2#12, 1#12 GND, 3/4" C	MC	EC	1
16-ACCU-1	208	1	7.32	9.15	20.00	-	1218.05	2#12, 1#12 GND, 3/4" C	MC	EC	1
16-DAC-1	208	1	7.32	9.15	20.00	-	1218.05	2#12, 1#12 GND, 3/4" C	MC	EC	1

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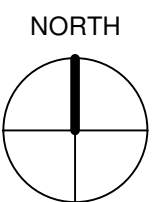
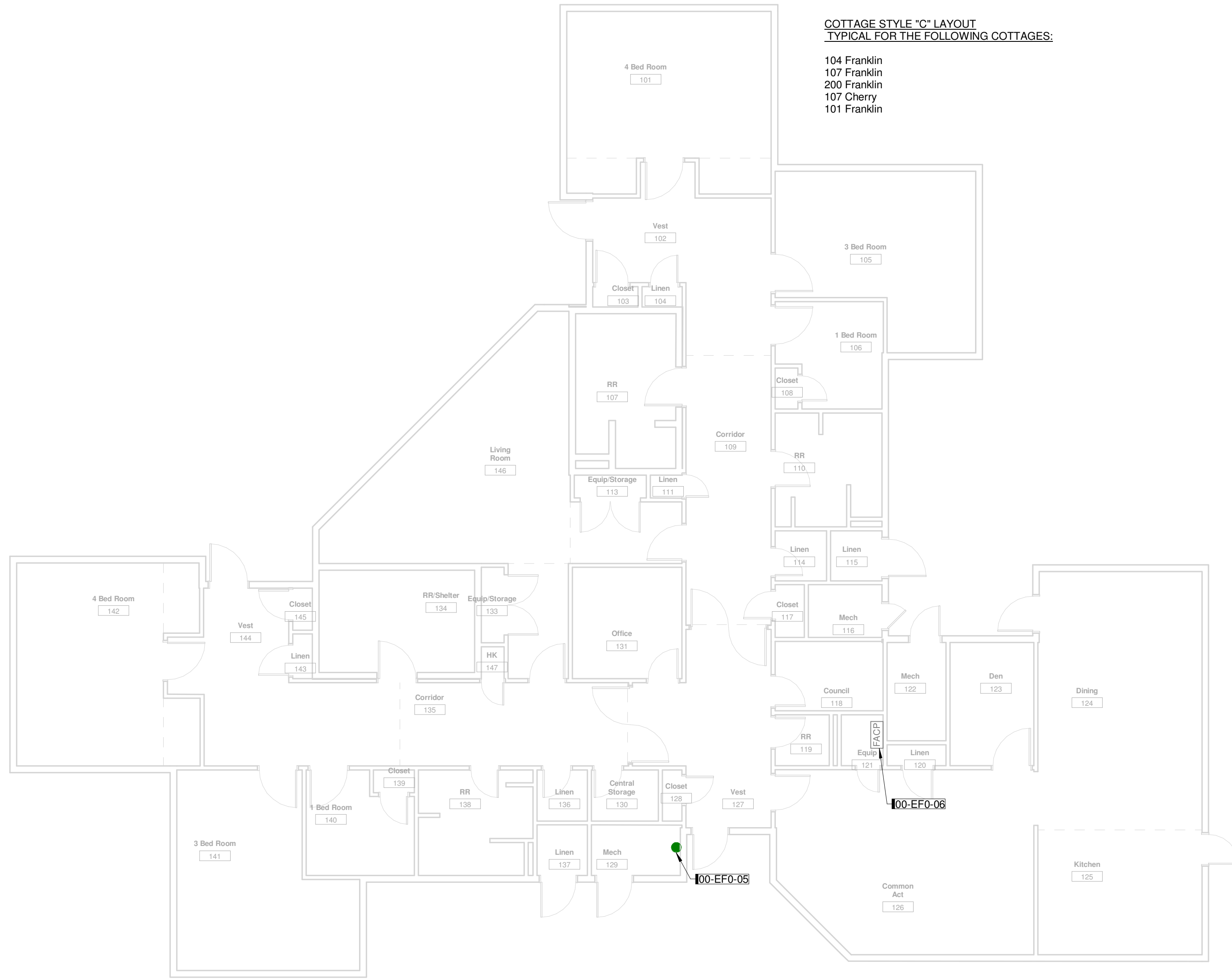


COTTAGE STYLE "A" LAYOUT  
TYPICAL FOR THE FOLLOWING COTTAGES:  
103 FRANKLIN  
108 FRANKLIN  
201 FRANKLIN  
202 PINE  
301 PINE  
302 PINE  
303 PINE  
304 PINE  
101 CHERRY  
103 CHERRY  
103 CEDAR  
201 CEDAR



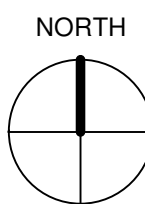
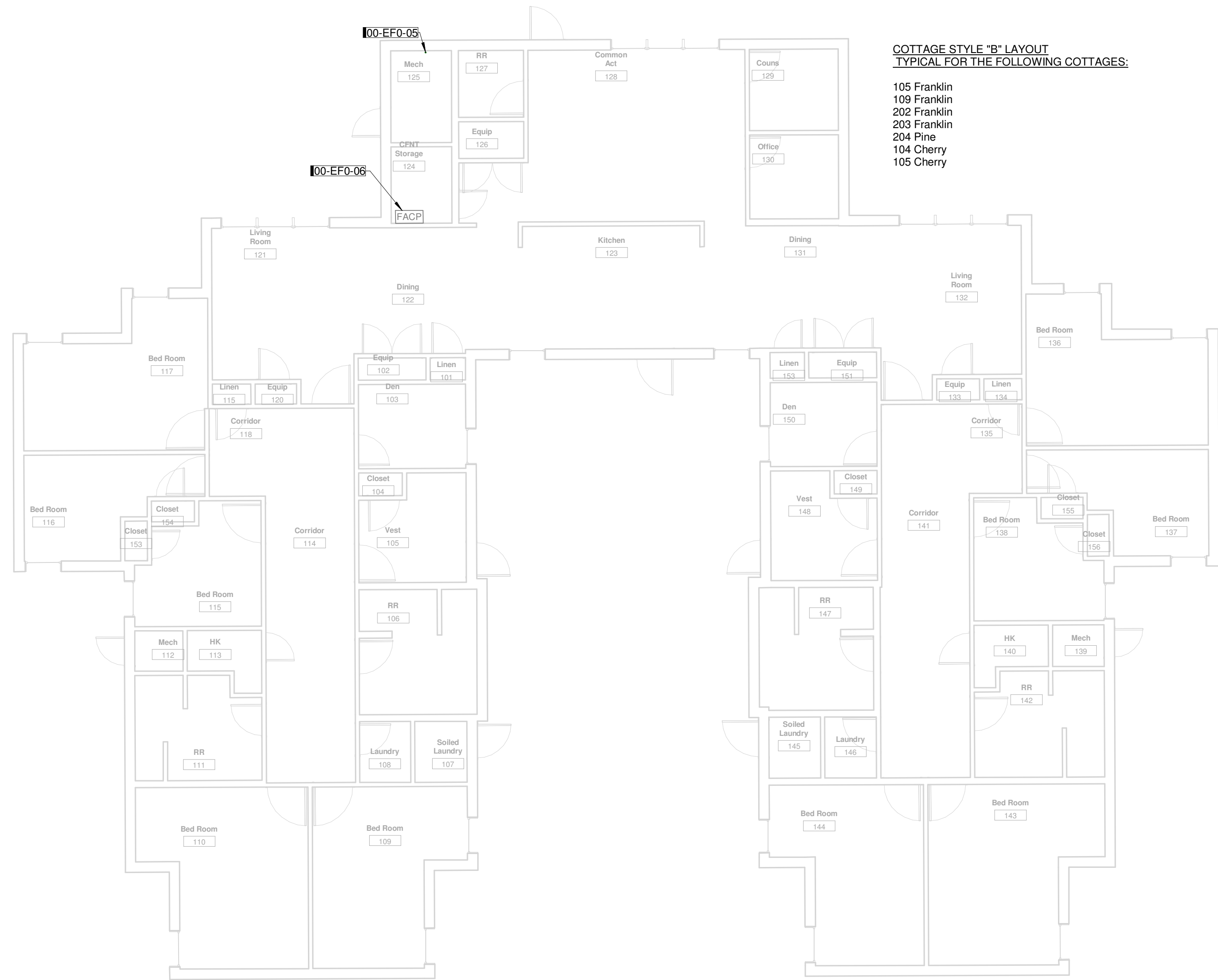
1 FIRST FLOOR - Cottage A  
1/8" = 1'-0" 0 12

COTTAGE STYLE "C" LAYOUT  
TYPICAL FOR THE FOLLOWING COTTAGES:  
104 Franklin  
107 Franklin  
200 Franklin  
107 Cherry  
101 Franklin



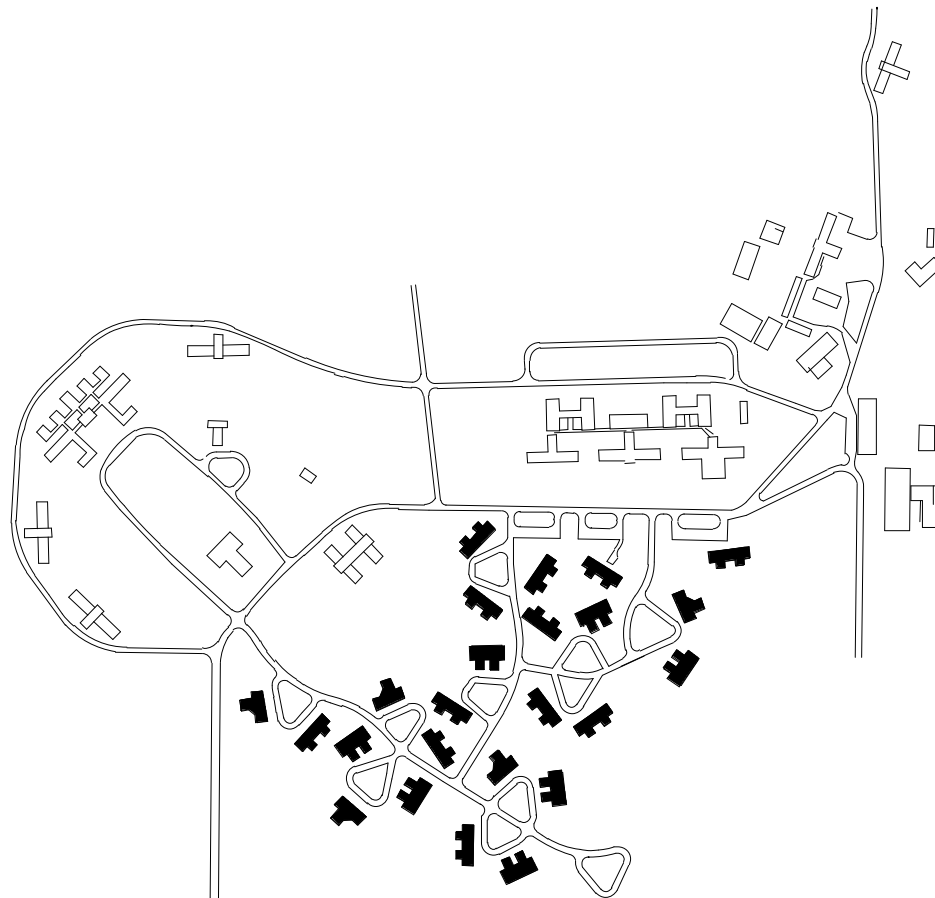
3 FIRST FLOOR - Cottage C  
1/8" = 1'-0" 0 12

KEYNOTES	
KEY	NOTE
00-EFC-05	TYPICAL LOCATION OF FIBER ENTRANCE FOR EACH COTTAGE.
00-EFC-06	LOCATION OF FACP. INSTALL 6 STRAND FIBER FROM FIBER ENTRANCE TO FACP. REPLACE EXISTING MULTI-MODE FIBER CONVERTER IN SIEMENS FACP WITH SINGLE-MODE FIBER CONVERTER. ALL FIBER TO BE INSTALLED IN 2" EMT CONDUIT.



2 FIRST FLOOR - Cottage B  
1/8" = 1'-0" 0 12

COTTAGE STYLE "B" LAYOUT  
TYPICAL FOR THE FOLLOWING COTTAGES:  
105 Franklin  
109 Franklin  
202 Franklin  
203 Franklin  
204 Pine  
104 Cherry  
105 Cherry



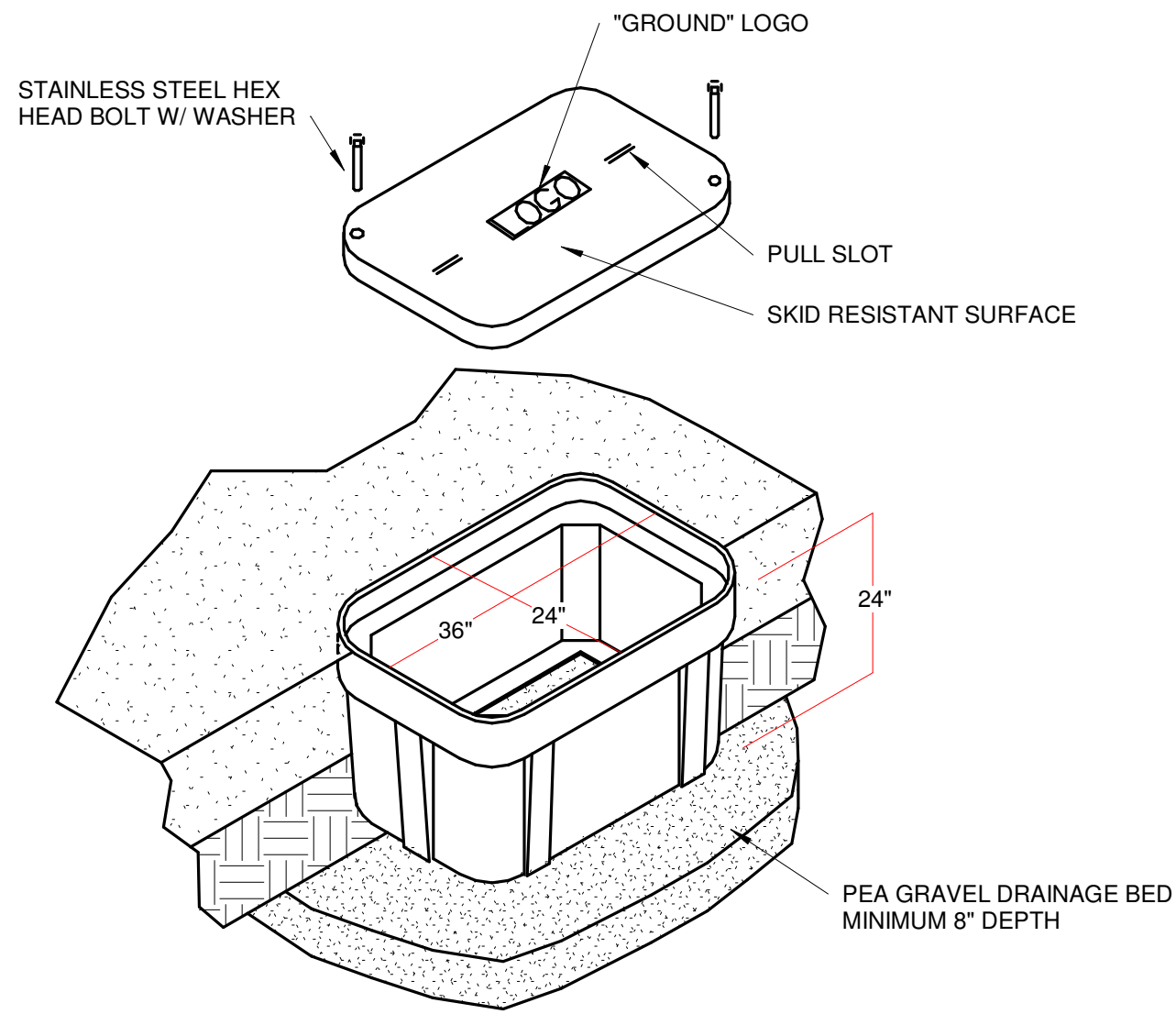
KEY PLAN

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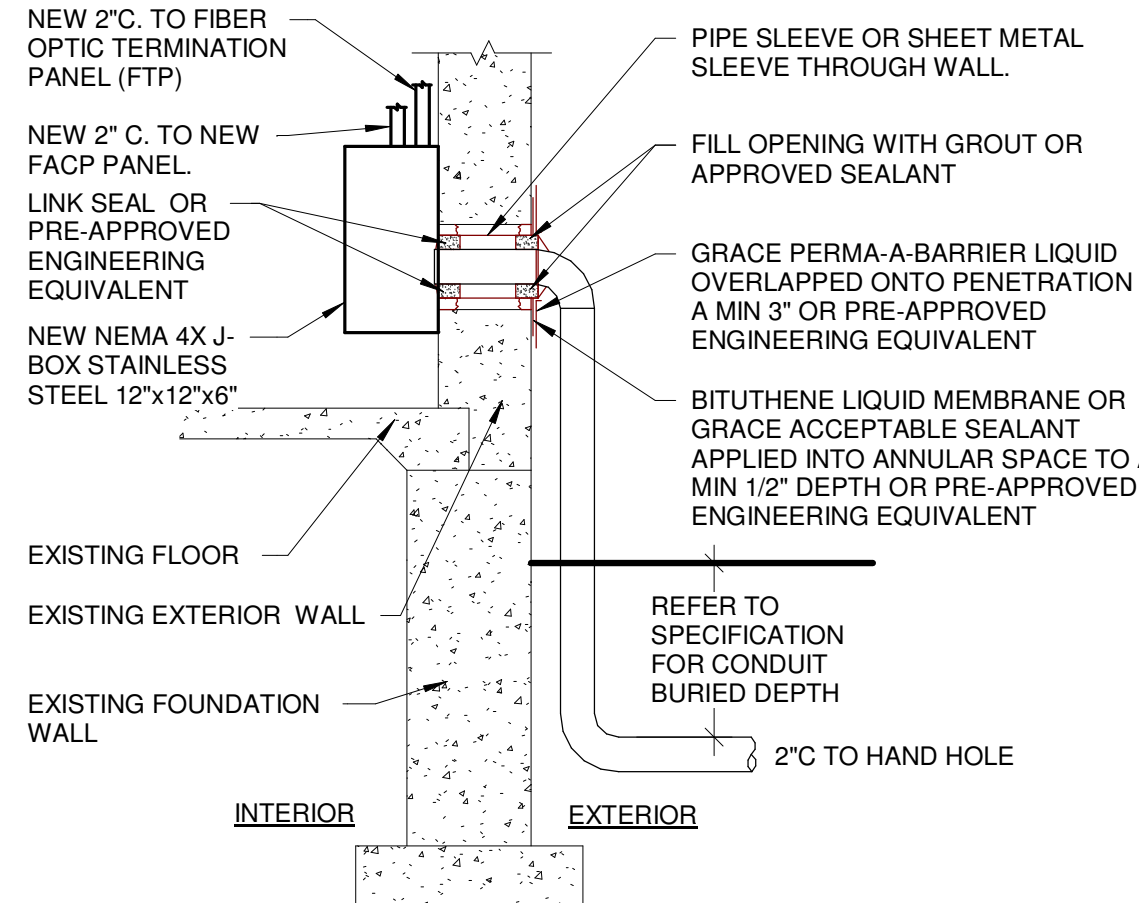






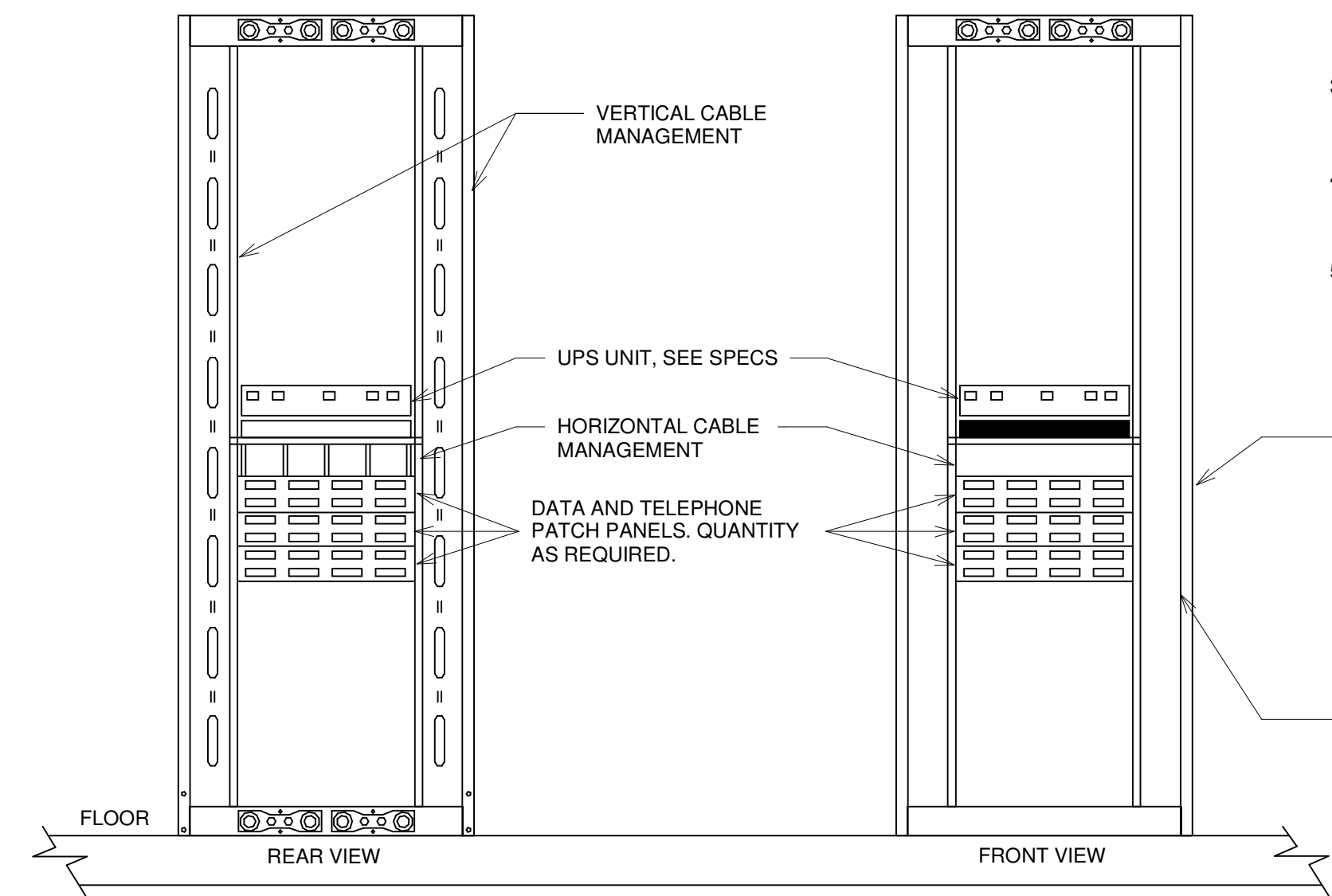
- NOTES:
1. UTILIZE QUAZITE BOX #PG2436BA24 WITH #PG2436CA0024 COVER OR PRE APPROVED ENGINEERING EQUIVALENT.

1 HANDHOLE  
NOT TO SCALE



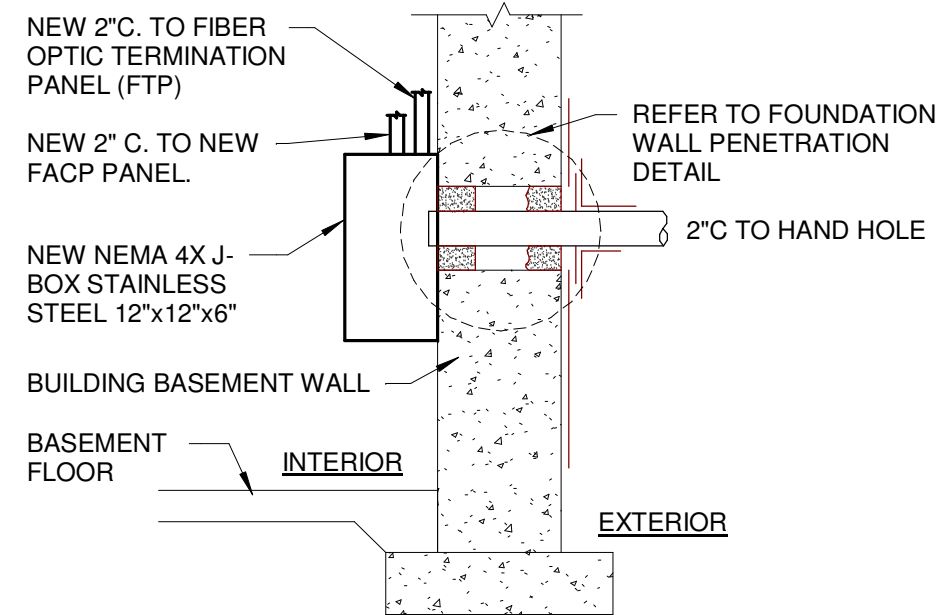
- NOTE:
1. CONTRACTOR SHALL SEAL ALL PENETRATIONS THROUGH EXISTING EXTERIOR WALLS TO MAKE PENETRATION WATERPROOF.

2 EXTERIOR WALL CONDUIT PENETRATION - ABOVE GRADE  
NOT TO SCALE



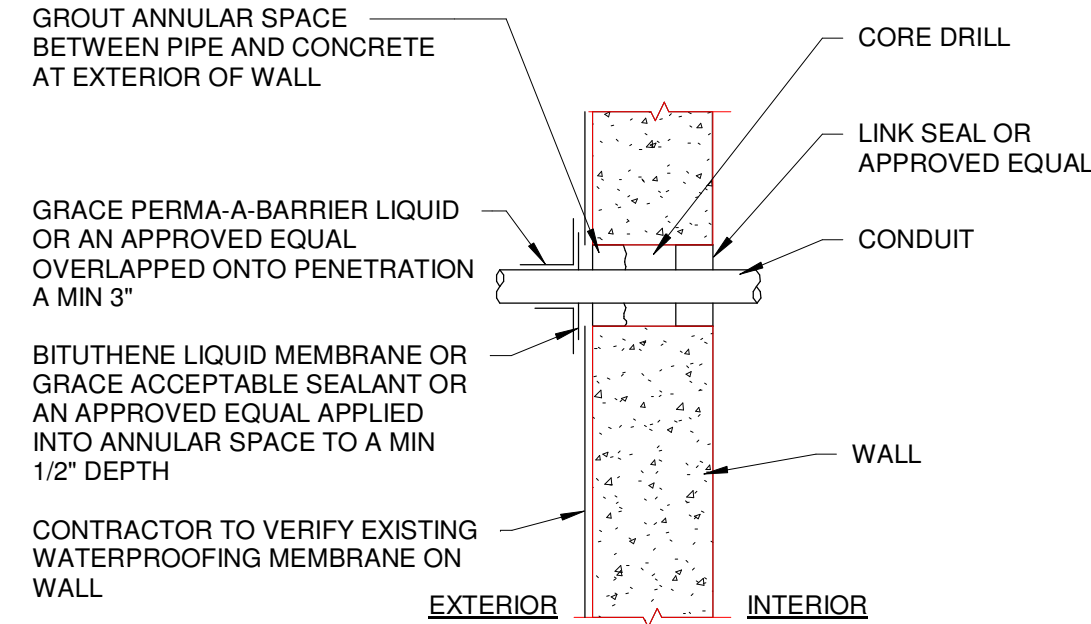
- NOTES:
1. PROVIDE 25' COILED SLACK LENGTH FOR EACH TERMINATED LEVEL 7, CATEGORY 6 DATA CABLE. UTILIZE WIRE MANAGEMENT STRUCTURE PER EIA/TIA STANDARDS. VERIFY EXACT CONDITIONS AND REQUIREMENTS IN FIELD.
  2. THE MOUNTING OF EQUIPMENT IN THE RACK SHALL FOLLOW THE LAYOUT AND ORDER IDENTIFIED HERE IN. THEREFORE UPS SHALL BE MOUNTED AT THE TOP OF THE CABINET, DATA PATCH PANELS NEXT AND SO ON.
  3. PROVIDE SEPARATE PATCH PANEL FOR SURVEILLANCE CAMERAS, TELEPHONE DEVICES, AND TELEMETRY EQUIPMENT.
  4. ROUTE 16 GROUNDING CABLE FROM THE MDF AND IDF CABINET AND CONNECT TO THE TELECOMMUNICATIONS GROUND BUS.
  5. CONTRACTOR SHALL REVIEW RACK ELEVATIONS AND LAYOUTS WITH OWNER'S IT REPRESENTATIVE AND VENDORS FOR ACCESS CONTROL, NURSE CALL, MEDICAL TELEMETRY AND VIDEO SURVEILLANCE SYSTEMS PRIOR TO ORDERING EQUIPMENT.
- MAIN DATA CABINET COMPLETE WITH SIDE VERTICAL CABLE MANAGERS, HORIZONTAL CABLE MANAGERS, DATA PATCH PANELS, COLOR CODED PATCH CORDS (COLOR CODE WINGS/FLOORS OF BUILDING), FILLER PANELS, 6U 19" RACK (84"H), ETC. FOR A COMPLETE & PROPERLY OPERATING INSTALLATION. PROVIDE ALL NECESSARY APPURTENANCES, AS REQUIRED. TERMINATE ALL DATA CABLES & PROVIDE COMPLETE TEST REPORTS PER INDUSTRY STANDARDS, PATCH PANELS, PATCH CORDS, ETC. AND PROVIDE 25% SPARE.

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



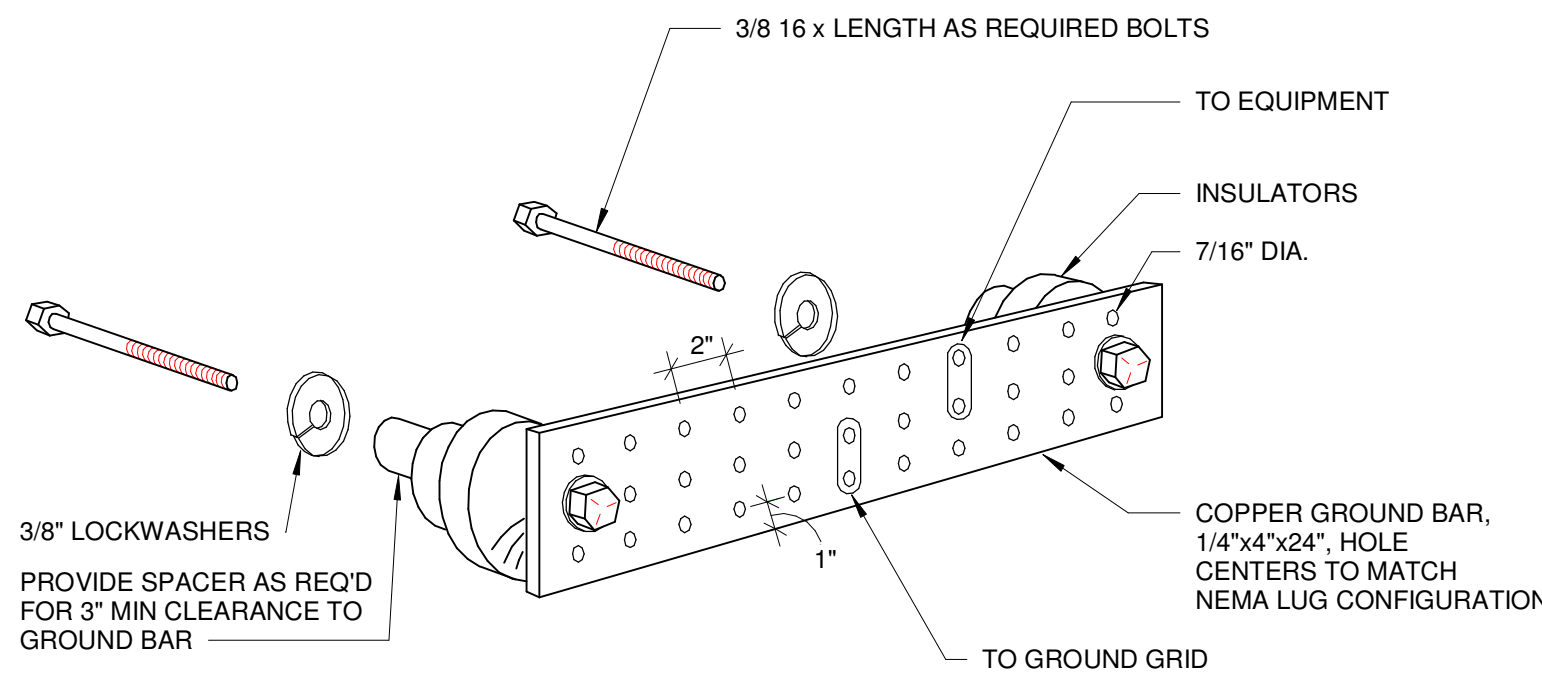
- NOTE:
1. CONTRACTOR SHALL SEAL ALL PENETRATIONS THROUGH EXISTING EXTERIOR FOUNDATION WALL TO MAKE PENETRATION WATERPROOF.

3 EXTERIOR WALL CONDUIT PENETRATION - BELOW GRADE  
NOT TO SCALE



- NOTE:
1. CONTRACTOR SHALL SEAL ALL PENETRATIONS THROUGH EXISTING EXTERIOR 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 MATERIALS.

4 EXTERIOR WALL PENETRATION DETAIL  
NOT TO SCALE



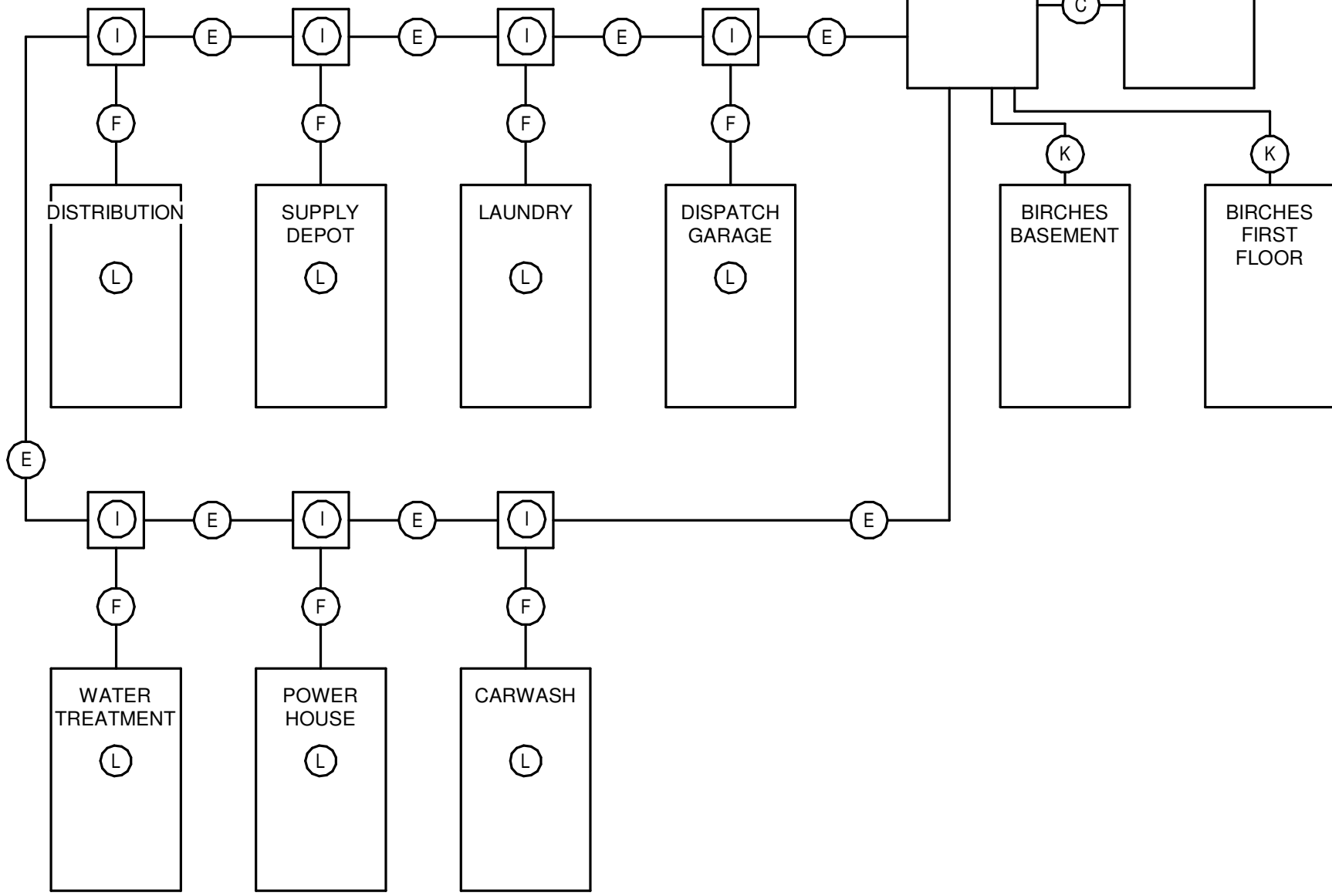
6 GROUND BAR DETAIL  
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1 FIBER RISER DIAGRAM  
NOT TO SCALE

FIBER OPTIC FEEDER SCHEDULE	
TAG	FEEDER, GROUND, AND CONDUIT SIZE
A	FURNISH AND INSTALL 288 F SINGLE MODE (OS2) BETWEEN ADMINISTRATION BUILDING AND MEDICAL CENTER. INSTALL FIBERS IN 4" CONDUIT. TERMINATE 240 FIBERS IN 12 STRAND CASSETTES. INSTALL CASSETTES IN RACK MOUNTED HOUSING. CASSETTES TO BE CORNING CCH-CS12-A9-P00RE OR PRE-APPROVED ENGINEERING ENGINEERING EQUIVALENT. RACK MOUNTING HOUSING TO BE CORNING CCH-04U PRE-APPROVED ENGINEERING ENGINEERING EQUIVALENT.
B	FURNISH AND INSTALL 24 F SINGLE MODE (OS2) BETWEEN HAND HOLE AND THE BUILDING. 12 SINGLE MODE FIBERS TO ORIGINATE IN ADMINISTRATION BUILDING AND 12 SINGLE MODE FIBERS TO ORIGINATE IN THE MEDICAL CENTER. INSTALL FIBERS IN 2" CONDUIT.
C	FURNISH AND INSTALL 2" CONDUIT BETWEEN BUILDINGS FOR FUTURE FIBER AND FIRE ALARM WIRING. INSTALL 2" CONDUIT TO CEILING SPACE IN EACH BUILDING.
D	FURNISH AND INSTALL 72 F SINGLE MODE (OS2) BETWEEN BUILDINGS. INSTALL FIBERS IN 4" CONDUIT. TERMINATE 48 FIBERS IN 12 STRAND CASSETTES. INSTALL CASSETTES IN RACK MOUNTED HOUSING. CASSETTES TO BE CORNING CCH-CS12-A9-P00RE OR PRE-APPROVED ENGINEERING ENGINEERING EQUIVALENT. RACK MOUNTING HOUSING TO BE CORNING CCH-04U PRE-APPROVED ENGINEERING ENGINEERING EQUIVALENT.
E	FURNISH AND INSTALL 144 F SINGLE MODE (OS2) FOR EAST LOOP. INSTALL FIBERS IN 4" CONDUIT. TERMINATE 96 FIBERS IN 12 STRAND CASSETTES. INSTALL CASSETTES IN RACK MOUNTED HOUSING. CASSETTES TO BE CORNING CCH-CS12-A9-P00RE OR PRE-APPROVED ENGINEERING ENGINEERING EQUIVALENT. RACK MOUNTING HOUSING TO BE CORNING CCH-04U PRE-APPROVED ENGINEERING ENGINEERING EQUIVALENT.
F	FURNISH AND INSTALL 24 F SINGLE MODE (OS2) BETWEEN HAND HOLE AND THE BUILDING. 12 SINGLE MODE FIBERS TO ORIGINATE FROM ONE SWITCH IN THE BIRCHES BUILDING AND 12 SINGLE MODE FIBERS TO ORIGINATE FROM SECOND SWITCH IN THE BIRCHES BUILDING. INSTALL FIBERS IN 2" CONDUIT.
G	FURNISH AND INSTALL 72 F SINGLE MODE (OS2) FOR LINDEN LOOP. INSTALL FIBERS IN 4" CONDUIT. TERMINATE 60 FIBERS IN 12 STRAND CASSETTES. INSTALL CASSETTES IN RACK MOUNTED HOUSING. CASSETTES TO BE CORNING CCH-CS12-A9-P00RE OR PRE-APPROVED ENGINEERING ENGINEERING EQUIVALENT. RACK MOUNTING HOUSING TO BE CORNING CCH-04U PRE-APPROVED ENGINEERING ENGINEERING EQUIVALENT.
H	FURNISH AND INSTALL 24 F SINGLE MODE (OS2) BETWEEN HAND HOLE AND THE BUILDING. 12 SINGLE MODE FIBERS TO ORIGINATE FROM ONE SWITCH IN THE MEDICAL CENTER BUILDING AND 12 SINGLE MODE FIBERS TO ORIGINATE FROM SECOND SWITCH IN THE MEDICAL CENTER BUILDING. INSTALL FIBERS IN 2" CONDUIT.
I	FURNISH AND INSTALL 36"x24"x24" (LXWXD) HANDHOLE FOR MID-SPAN SPLICE MID-SPAN SPLICE ENCLOSURE TO BE CORNING 2178 WITH ONE 80611486798 OR PRE-APPROVED ENGINEERING EQUIVALENT.
J	FURNISH AND INSTALL 36"x24"x24" (LXWXD) JUNCTION BOX FOR MID-SPAN SPLICE. INSTALL JUNCTION BOXES IN THE TUNNEL UNDER LINDEN COURT. MID-SPAN SPLICE ENCLOSURE TO BE CORNING 2178 WITH ONE 80611486798 OR PRE-APPROVED ENGINEERING EQUIVALENT.
K	FURNISH AND INSTALL 24 F SINGLE MODE (OS2) BETWEEN MAIN IT ROOM AND SECONDARY IT ON ANOTHER FLOOR. INSTALL FIBER IN 2" EMT CONDUIT. PROVIDE 75' OF FIBER BETWEEN MAIN IT ROOM AND SECONDARY IT ROOM. COORDINATE LOCATION OF SECONDARY IT ROOM WITH OWNER PRIOR TO ROUGH-IN. FURNISH AND INSTALL WALL MOUNTED FIBER CONNECTION CABINET AND CASSETTES IN SECONDARY IT ROOM. WALL MOUNTED CONNECTOR HOUSING TO BE CORNING WCH-02P OR PRE-APPROVED ENGINEERING EQUIVALENT. WORK TO BE COMPLETED AS BID ALTERNATE #1. CASSETTES TO BE CORNING CCH-CS24-A9-P00RE OR PRE-APPROVED
L	FURNISH AND INSTALL WALL MOUNTED FIBER CONNECTION CABINET AND CASSETTES AT EXISTING FIBER ENTRANCE. WALL MOUNTED CONNECTOR HOUSING TO BE CORNING WCH-02P OR PRE-APPROVED ENGINEERING EQUIVALENT. CASSETTES TO BE CORNING CCH-CS24-A9-P00RE OR PRE-APPROVED



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