

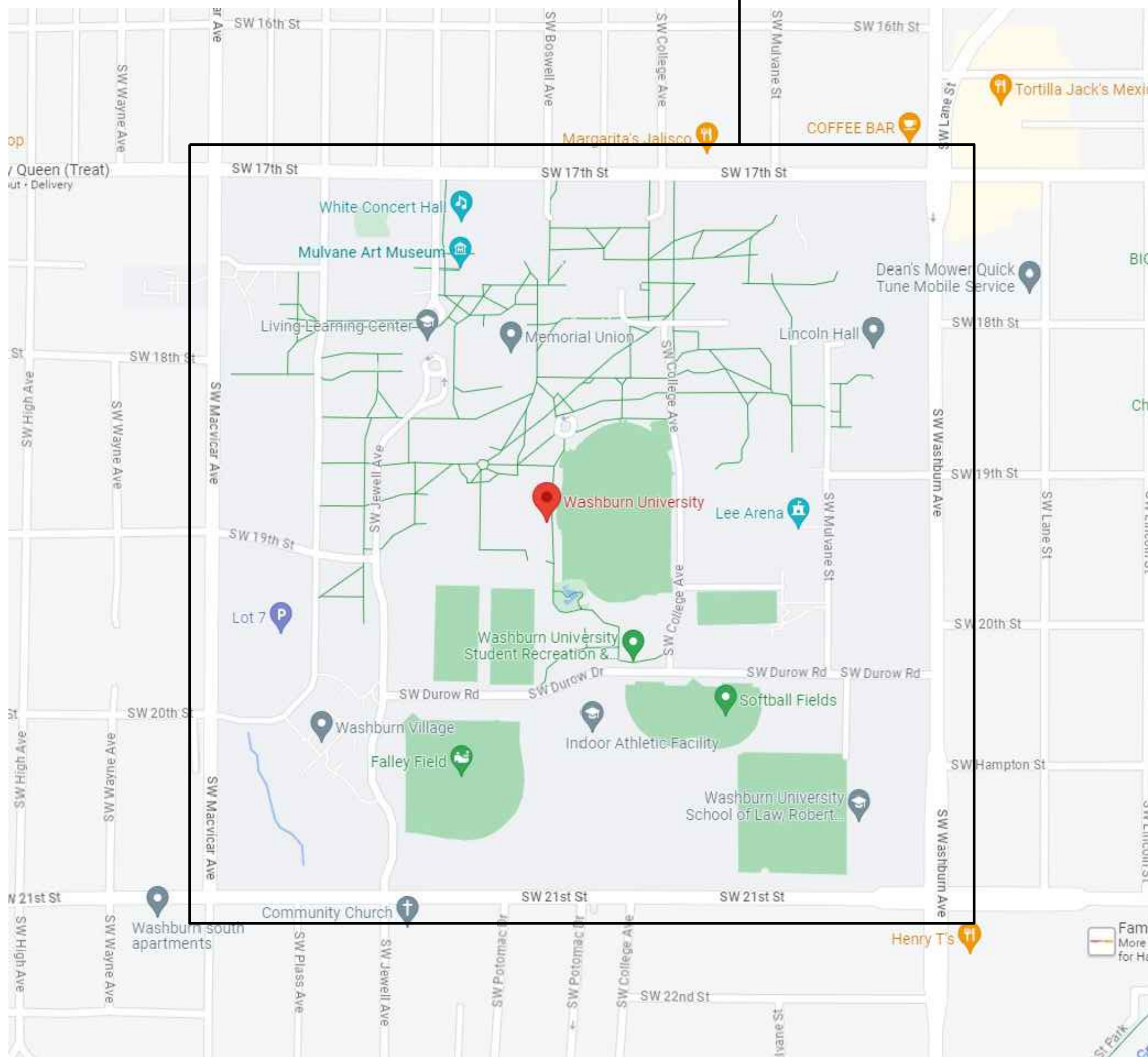


Washburn University

Fiber Backbone and Network Infrastructure Upgrades

1700 SW College Avenue
Topeka, Kansas 66621

PROJECT LOCATION



SHEET LIST

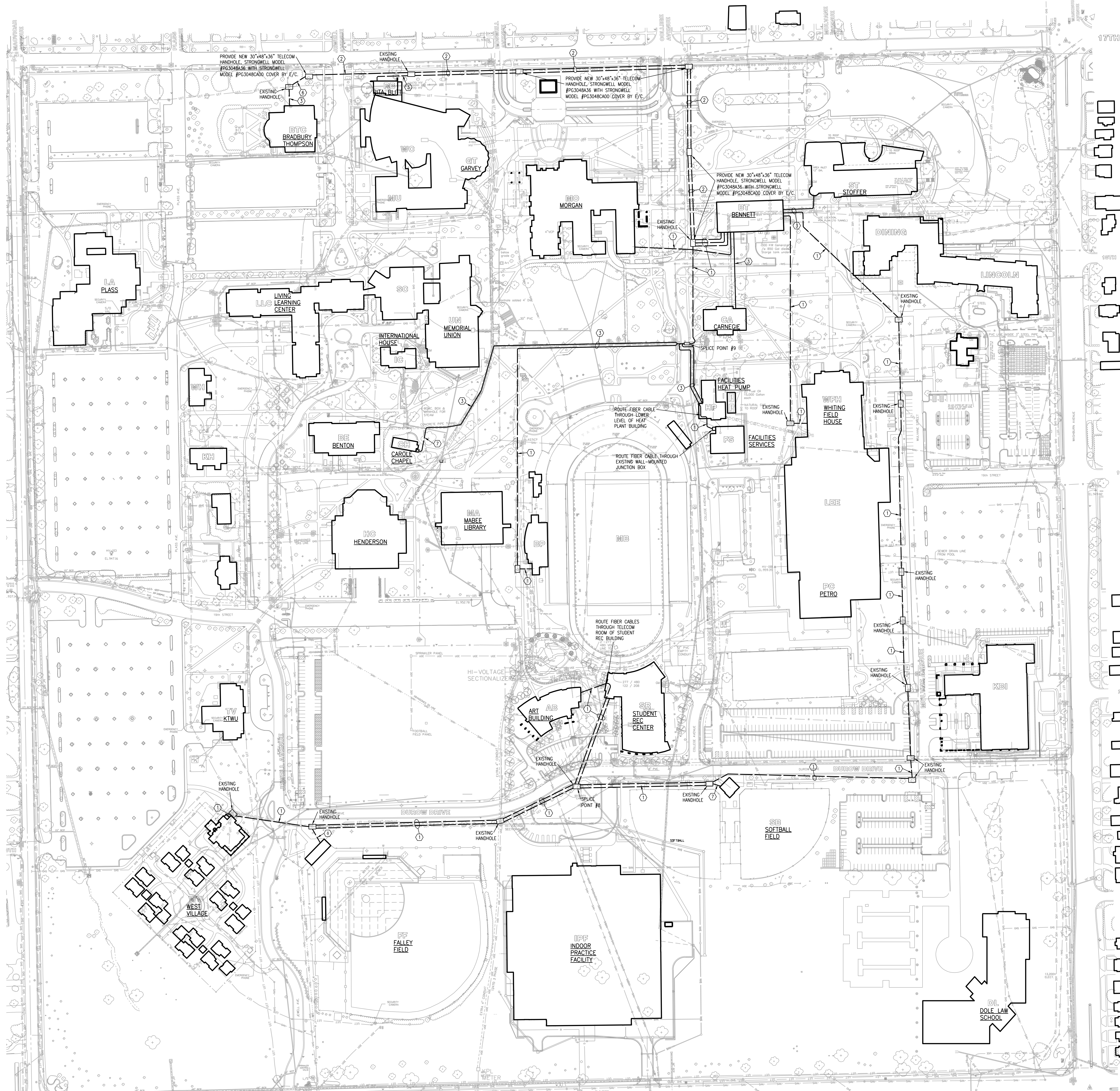
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T102	SITE PLAN - PHASE 2 TELECOM
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T202	HENDERSON LEARNING CENTER - BASEMENT FLOOR PLAN
T203	ART BUILDING - FIRST FLOOR PLAN
T204	BIANCHINO PAVILION - FIRST FLOOR PLAN
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T219	WHITING FIELD HOUSE - THIRD FLOOR PLAN
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T222	STOFFER SCIENCE HALL - PARTIAL BASEMENT PLAN
T223	STUDENT REC CENTER - FIRST FLOOR PLAN
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T301	TELECOM SCHEDULES AND DETAILS
T302	TELECOM SCHEDULES AND DETAILS
T303	TELECOM SCHEDULES AND DETAILS

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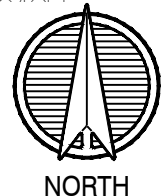
REVISIONS		
NO.	DESCRIPTION	DATE
DATE: 4/2/2025		
LSA PROJECT NO.: 2306002		
SHEET DESCRIPTION: TITLE PAGE		
SHEET NO.: T001		



- NOTES:
1. NOTIFY WASHBURN UNIVERSITY A MINIMUM OF 7 DAYS AND AGAIN 48 HOURS PRIOR TO ANY INTERRUPTION IN SERVICE TO ANY UTILITY SERVICE OR BUILDING SERVICES.
 2. CONTACT FACILITIES AT (785) 670-1149 FOR COORDINATION OF ALL UTILITY SERVICES.
 3. ALL UTILITY DOWN TIMES SHALL BE KEPT TO A MINIMUM AND SHALL TAKE PLACE AT A TIME APPROVED BY THE OWNER.
 4. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES AROUND BUILDING. COORDINATE WITH WASHBURN UNIVERSITY FOR ASSISTANCE IN LOCATING EACH UTILITY.
 5. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY REPAIR/REPLACEMENT OF ANY UTILITY SERVICES OR SECONDARY SERVICES THAT MAY BE DAMAGED OR INTERRUPTED AS A RESULT OF CONSTRUCTION ACTIVITIES IF THOSE SERVICES ARE NOT TO BE DISTURBED.
 6. WHERE EXCAVATION OR TRENCHING OCCURS, SOIL SHALL BE MECHANICALLY COMPACTED.
 7. VERIFY ALL EXISTING SITE CONDITIONS, LOCATIONS, ELEVATIONS, ROUTING, ETC. AS REQUIRED FOR COORDINATION AND SAFE INSTALLATION.
 8. ALL FIBER CABLE ROUTED WITHIN BUILDINGS SHALL BE ROUTED WITHIN PLENUM-RATED INNERDUCT.

- LEGEND:
- 1 ROUTE SINGLEMODE FIBER CABLE IN EXISTING CONDUIT.
 - 2 (2) 4" C. AT 36" MINIMUM BELOW GRADE WITH NEW 3-CELL TEXTILE MAXCELL INNERDUCTS. PROVIDE MAXCELL MODEL #MXCRBVL100 TERMINATION BAGS AT ALL CONDUIT PENETRATIONS INTO HANDHOLES. ROUTE NEW FIBER CABLE(S) IN NEW MAXCELL INNERDUCTS.
 - 3 ROUTE SINGLEMODE FIBER CABLE IN EXISTING TUNNEL.
 - 4 TERMINATE SINGLEMODE FIBER CABLE ON NEW FIBER ADAPTER PANELS IN NEW FIBER HOUSING IN EXISTING RACK.
 - 5 PENETRATE TUNNEL WALL WITH NEW CONDUIT(S) AND PROVIDE LINK SEAL.
 - 6 (1) 4" C. AT 36" MINIMUM BELOW GRADE WITH NEW 3-CELL TEXTILE MAXCELL INNERDUCT. PROVIDE MAXCELL MODEL #MXCRBVL100 TERMINATION BAGS AT ALL CONDUIT PENETRATIONS INTO HANDHOLES. ROUTE NEW FIBER CABLE(S) IN NEW MAXCELL INNERDUCT.
 - 7 (1) 2" C. AT 36" MINIMUM BELOW GRADE WITH NEW 3-CELL TEXTILE MAXCELL INNERDUCT. PROVIDE MAXCELL MODEL #MXCRBVL100 TERMINATION BAGS AT ALL CONDUIT PENETRATIONS INTO HANDHOLES. ROUTE NEW FIBER CABLE(S) IN NEW MAXCELL INNERDUCT.

1 SITE PLAN - PHASE 1
1"=100'-0" TELECOM

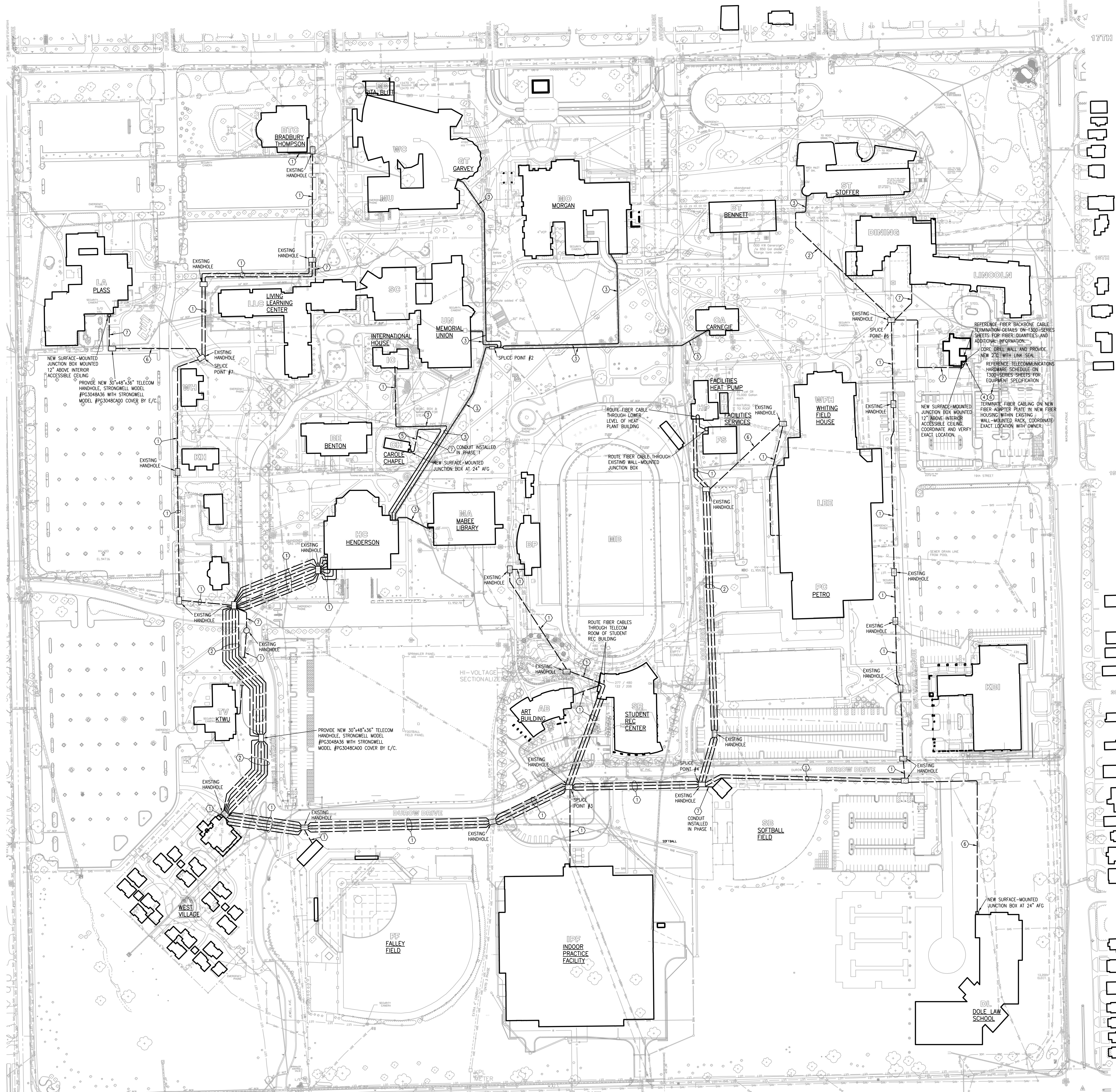


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SHEET DESCRIPTION: SITE PLAN - PHASE 1 TELECOM		
SHEET NO.: T101		



- NOTES:
1. NOTIFY WASHBURN UNIVERSITY A MINIMUM OF 7 DAYS AND AGAIN 48 HOURS PRIOR TO ANY INTERRUPTION IN SERVICE TO ANY UTILITY SERVICE OR BUILDING SERVICES.
 2. CONTACT FACILITIES AT (785) 670-1149 FOR COORDINATION OF ALL UTILITY SERVICES.
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 6. WHERE EXCAVATION OR TRENCHING OCCURS, SOIL SHALL BE MECHANICALLY COMPACTED.
 7. VERIFY ALL EXISTING SITE CONDITIONS, LOCATIONS, ELEVATIONS, ROUTING, ETC. AS REQUIRED FOR COORDINATION AND SAFE INSTALLATION.
 8. ALL FIBER CABLE ROUTED WITHIN BUILDINGS SHALL BE ROUTED WITHIN PLENUM-RATED INNERDUCT.

- LEGEND:
- 1 ROUTE SINGLEMODE FIBER CABLE IN EXISTING CONDUIT.
 - 2 (2) 4" C. AT 36" MINIMUM BELOW GRADE WITH NEW 3-CELL TEXTILE MAXCELL INNERDUCT. PROVIDE MAXCELL MODEL #MXCRBVL100 TERMINATION BAGS AT ALL CONDUIT PENETRATIONS INTO HANDHOLES. ROUTE NEW FIBER CABLE(S) IN NEW MAXCELL INNERDUCTS.
 - 3 ROUTE SINGLEMODE FIBER CABLE IN EXISTING TUNNEL.
 - 4 TERMINATE SINGLEMODE FIBER CABLE ON NEW FIBER ADAPTER PLATE IN NEW FIBER HOUSING WITHIN EXISTING RACK.
 - 5 PENETRATE TUNNEL WALL WITH NEW CONDUIT(S) AND PROVIDE LINK SEAL.
 - 6 (1) 4" C. AT 36" MINIMUM BELOW GRADE WITH NEW 3-CELL TEXTILE MAXCELL INNERDUCT. PROVIDE MAXCELL MODEL #MXCRBVL100 TERMINATION BAGS AT ALL CONDUIT PENETRATIONS INTO HANDHOLES. ROUTE NEW FIBER CABLE(S) IN NEW MAXCELL INNERDUCT.
 - 7 (1) 2" C. AT 36" MINIMUM BELOW GRADE WITH NEW 3-CELL TEXTILE MAXCELL INNERDUCT. PROVIDE MAXCELL MODEL #MXCRBVL100 TERMINATION BAGS AT ALL CONDUIT PENETRATIONS INTO HANDHOLES. ROUTE NEW FIBER CABLE(S) IN NEW MAXCELL INNERDUCT.

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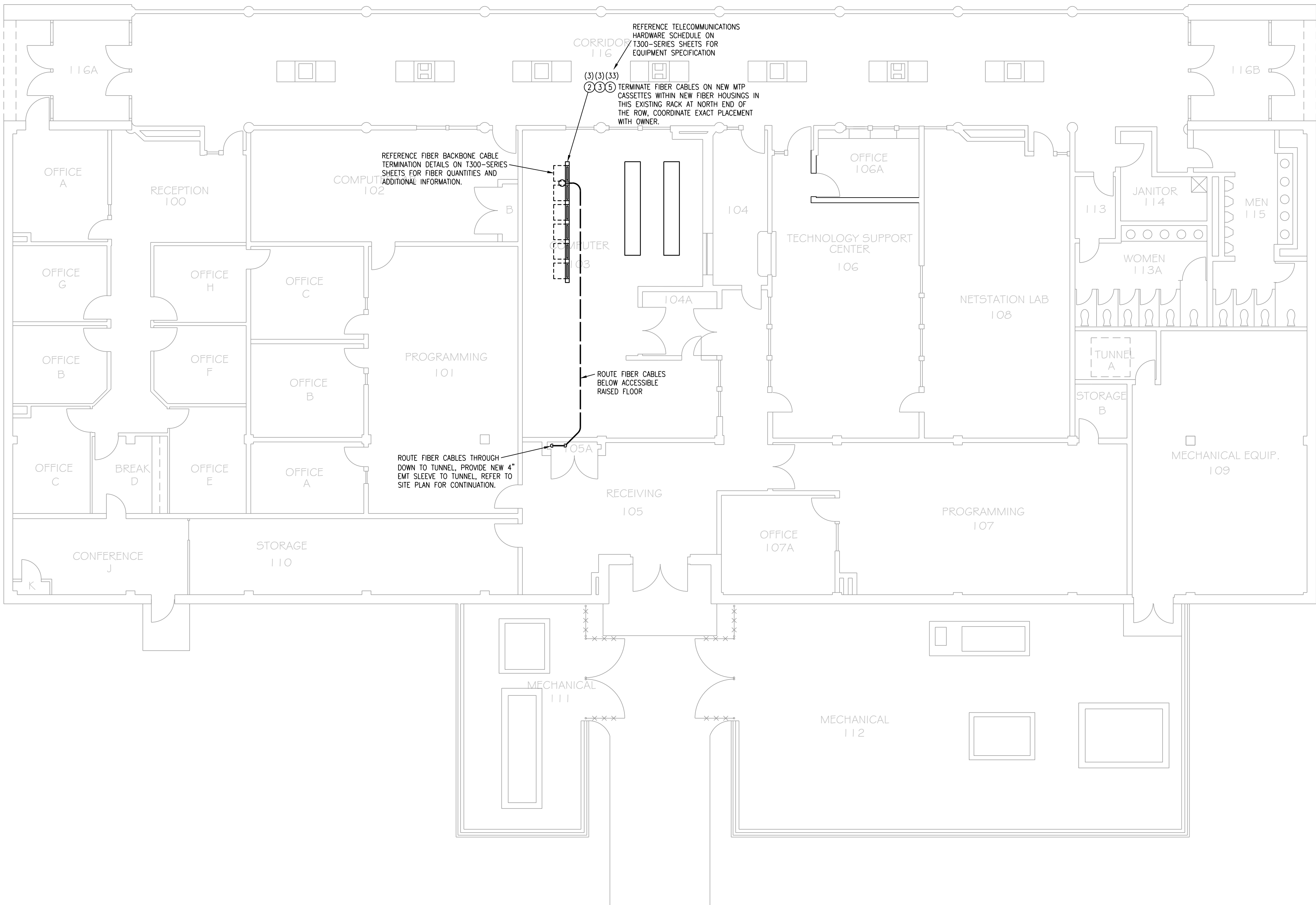
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NO.	DESCRIPTION	DATE
DATE: 4/2/2025		
LSA PROJECT NO.: 2306002		
SHEET DESCRIPTION: SITE PLAN - PHASE 2 TELECOM		
SHEET NO.: T102		

NOTES:
1. REFER TO SHEET T301 FOR NOTES.

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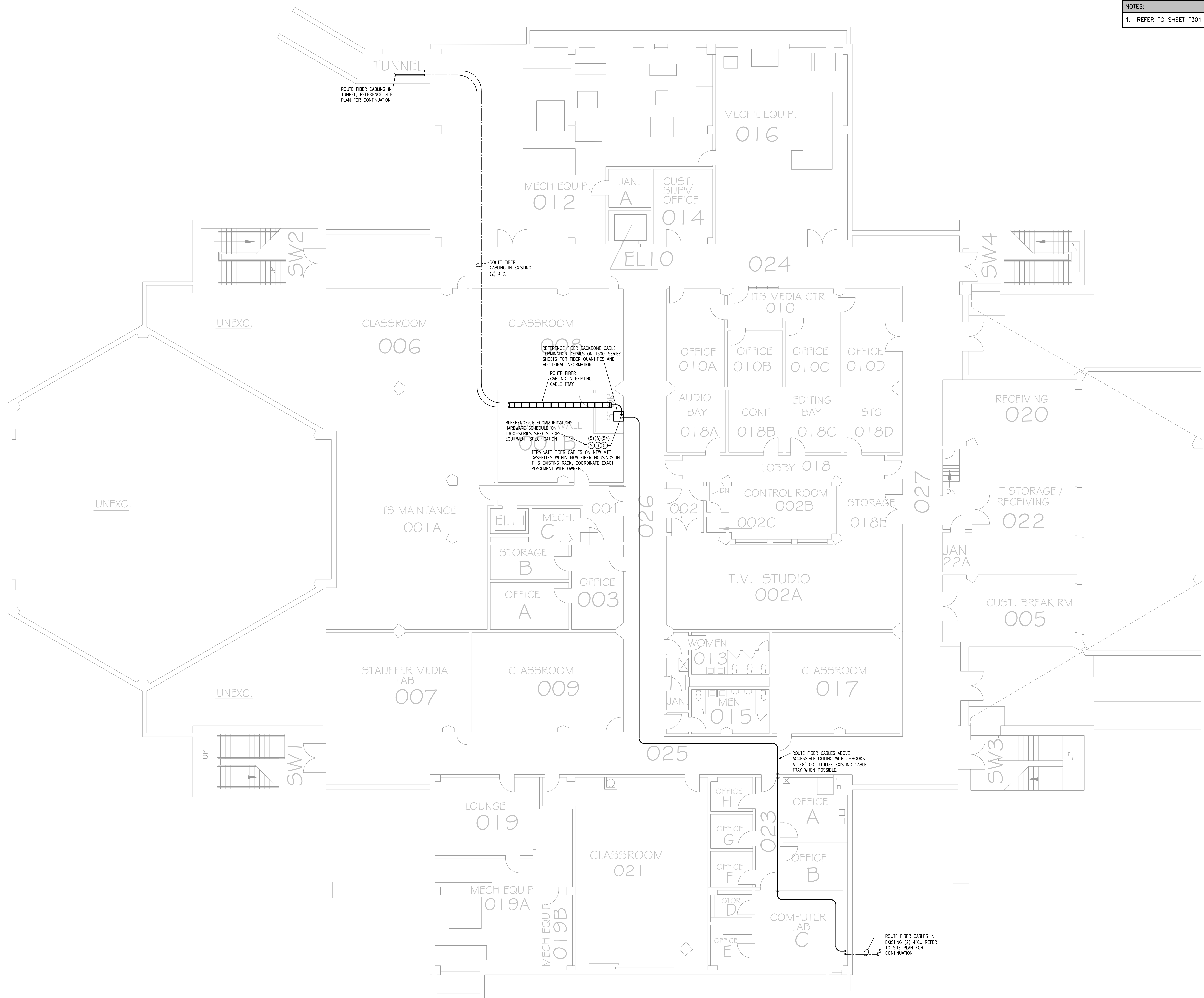
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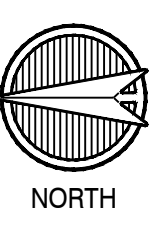
1 BENNETT COMPUTER CENTER - FIRST FLOOR PLAN
1/8"=1'-0"

REVISIONS		
NO.	DESCRIPTION	DATE
DATE: 4/2/2025		
LSA PROJECT NO.: 2306002		
SHEET DESCRIPTION: BENNETT COMPUTER CENTER - FIRST FLOOR		
SHEET NO.: T201		

NOTES:
1. REFER TO SHEET T301 FOR NOTES.



1 HENDERSON LEARNING CENTER - BASEMENT FLOOR PLAN
1/8" = 1'-0"



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DATE: 4/2/2025		
LSA PROJECT NO.: 2306002		
SHEET DESCRIPTION: HENDERSON LEARNING CTR - BASEMENT FLR PLAN		
SHEET NO.: T202		

NOTES:
1. REFER TO SHEET T301 FOR NOTES.



1 ART BUILDING - FIRST FLOOR PLAN
1/8"=1'-0"
NORTH

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DATE:
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LSA PROJECT NO.:
2306002

SHEET DESCRIPTION:
**ART BUILDING - FIRST
FLOOR PLAN**

SHEET NO.:
T203

REFERENCE FIBER BACKBONE CABLE
TERMINATION DETAILS ON T300-SERIES
SHEETS FOR FIBER QUANTITIES AND
ADDITIONAL INFORMATION.

REFERENCE TELECOMMUNICATIONS
HARDWARE SCHEDULE ON
T300-SERIES SHEETS FOR
EQUIPMENT SPECIFICATION

(4) TERMINATE FIBER CABLE ON NEW
FIBER ADAPTER PLATE IN NEW
FIBER HOUSING WITHIN EXISTING
2-POST FLOOR-MOUNTED RACK.
COORDINATE EXACT LOCATION WITH
OWNER.

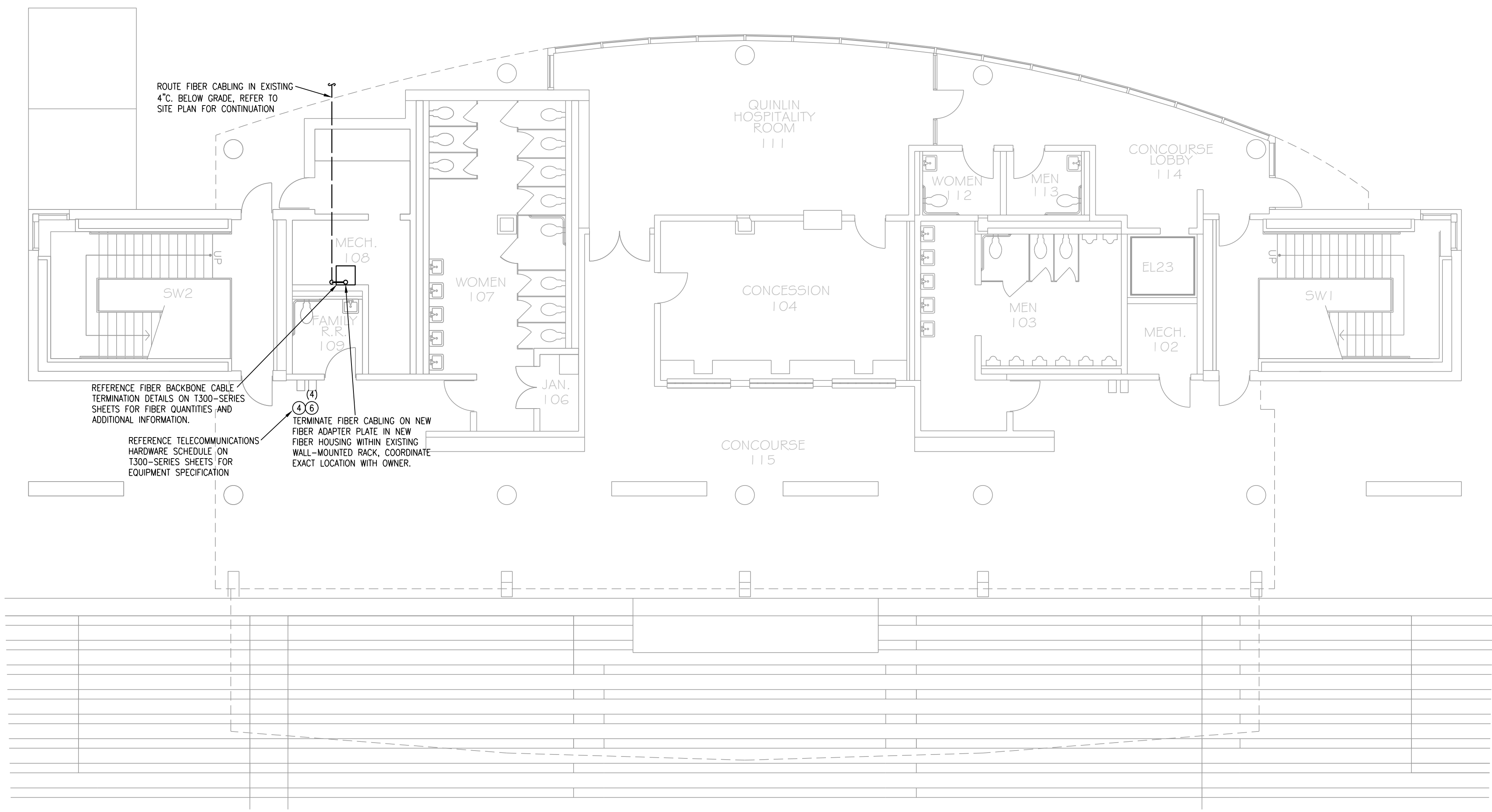
ROUTE FIBER CABLE IN EXISTING
4" C. BELOW GRADE. REFER TO
SITE PLAN FOR CONTINUATION

NOTES:
1. REFER TO SHEET T301 FOR NOTES.

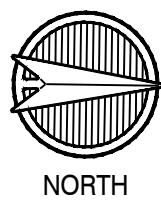
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1 BIANCHINO PAVILLION - FIRST FLOOR PLAN
1/8" = 1'-0"



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2306002

SHEET DESCRIPTION:
BIANCHINO PAVILLION -
FIRST FLOOR PLAN

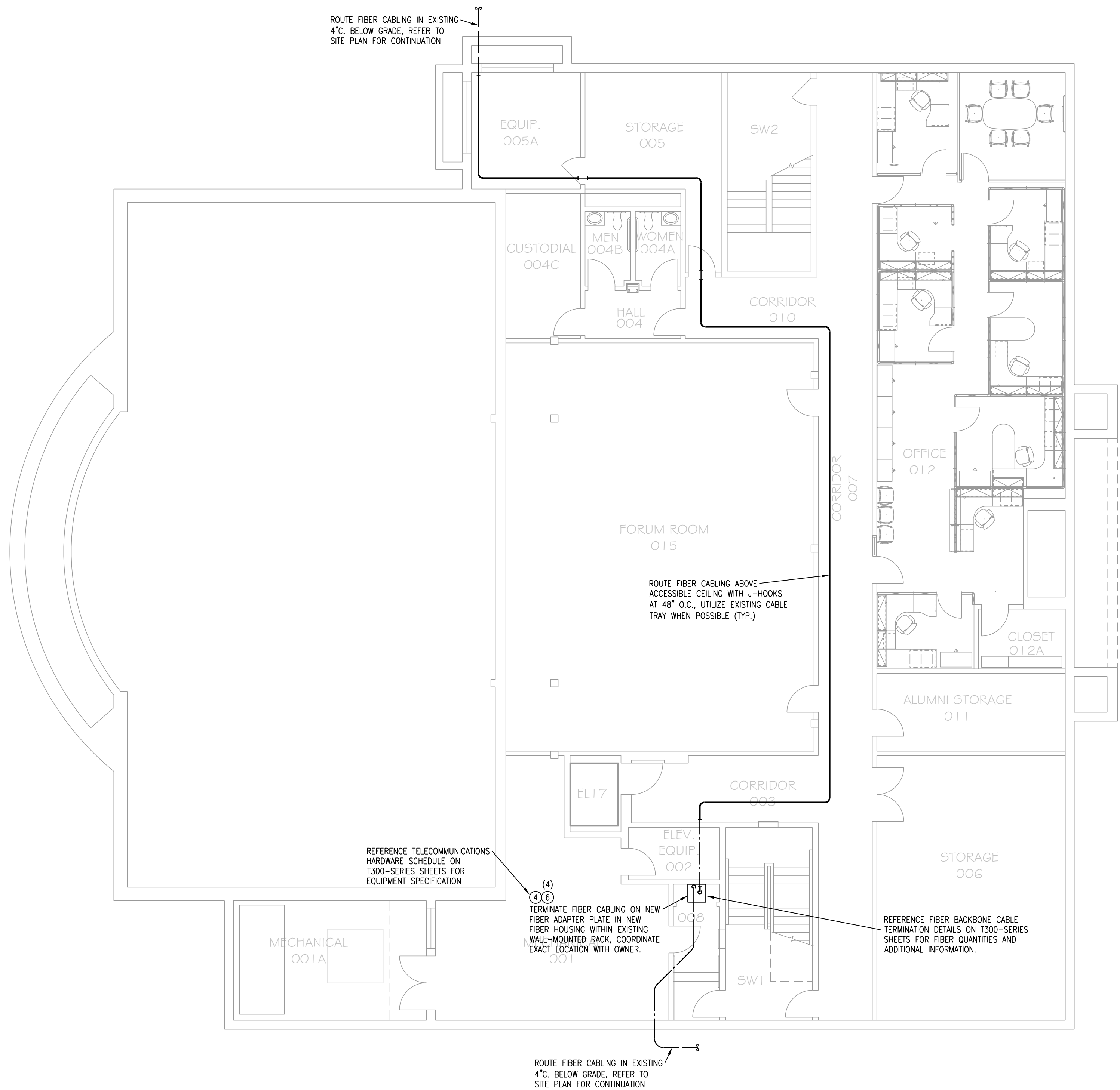
SHEET NO.:
T204

NOTES:
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1 BRADBURY THOMPSON CENTER - BASEMENT FLOOR PLAN
1/8"=1'-0"
NORTH

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NO.	DESCRIPTION	DATE

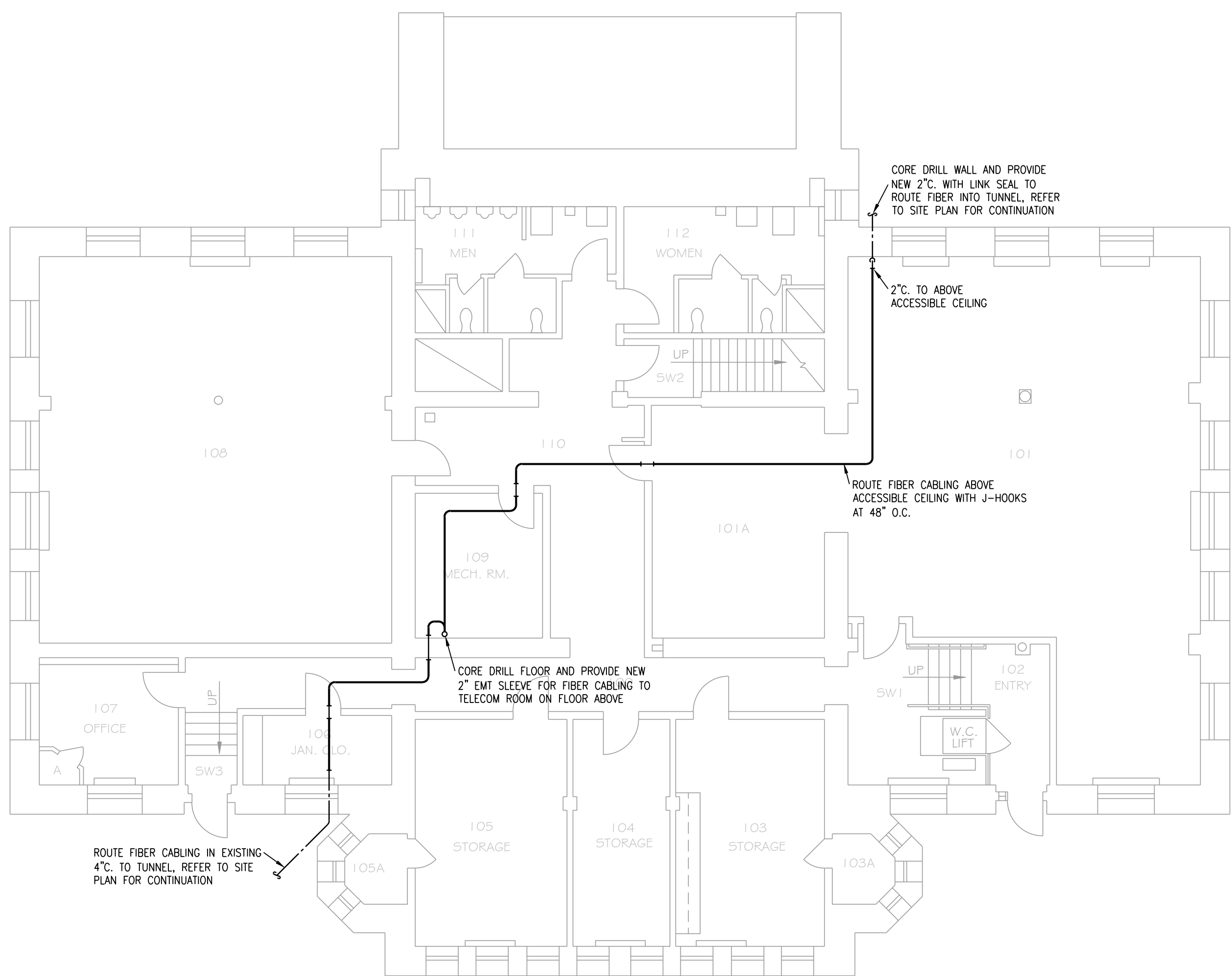
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2306002

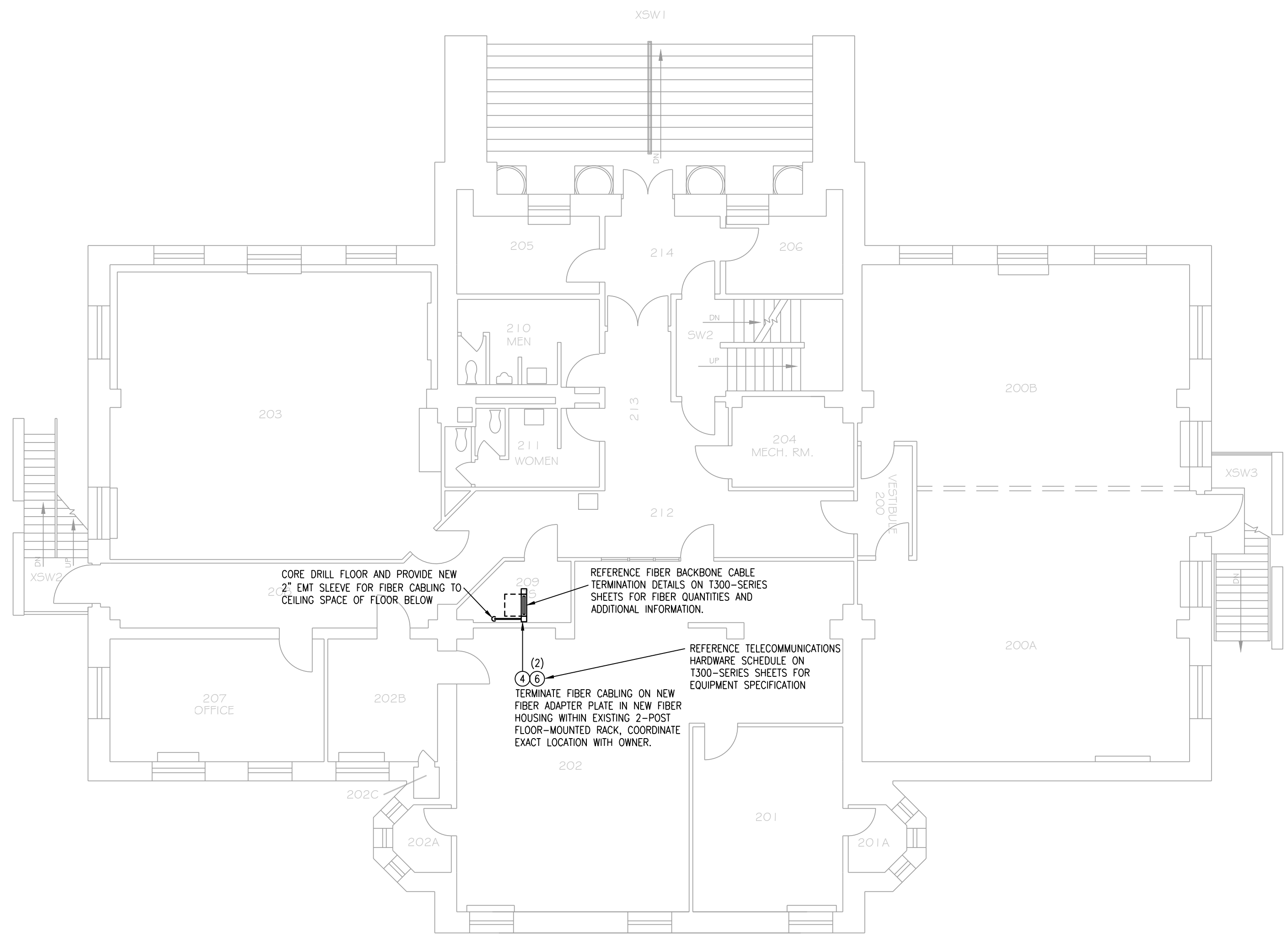
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BRADBURY THOMPSON
CTR - BASEMENT FLR PLAN

SHEET NO.:
T205

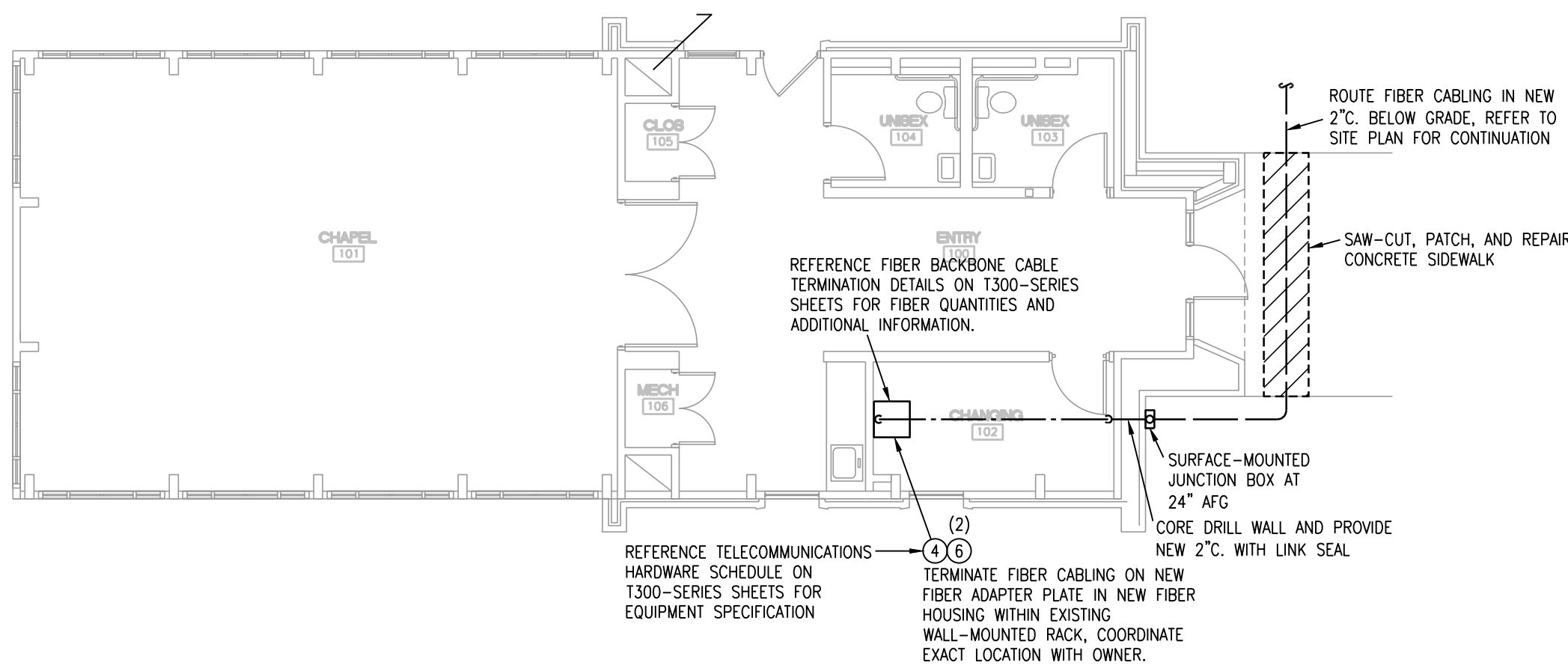
NOTES:
1. REFER TO SHEET T301 FOR NOTES.



1 **CARNEGIE HALL - FIRST FLOOR PLAN**
1/8"=1'-0" NORTH



2 **CARNEGIE HALL - SECOND FLOOR PLAN**
1/8"=1'-0" NORTH



3 **CAROLE CHAPEL FLOOR PLAN**
1/8"=1'-0" NORTH

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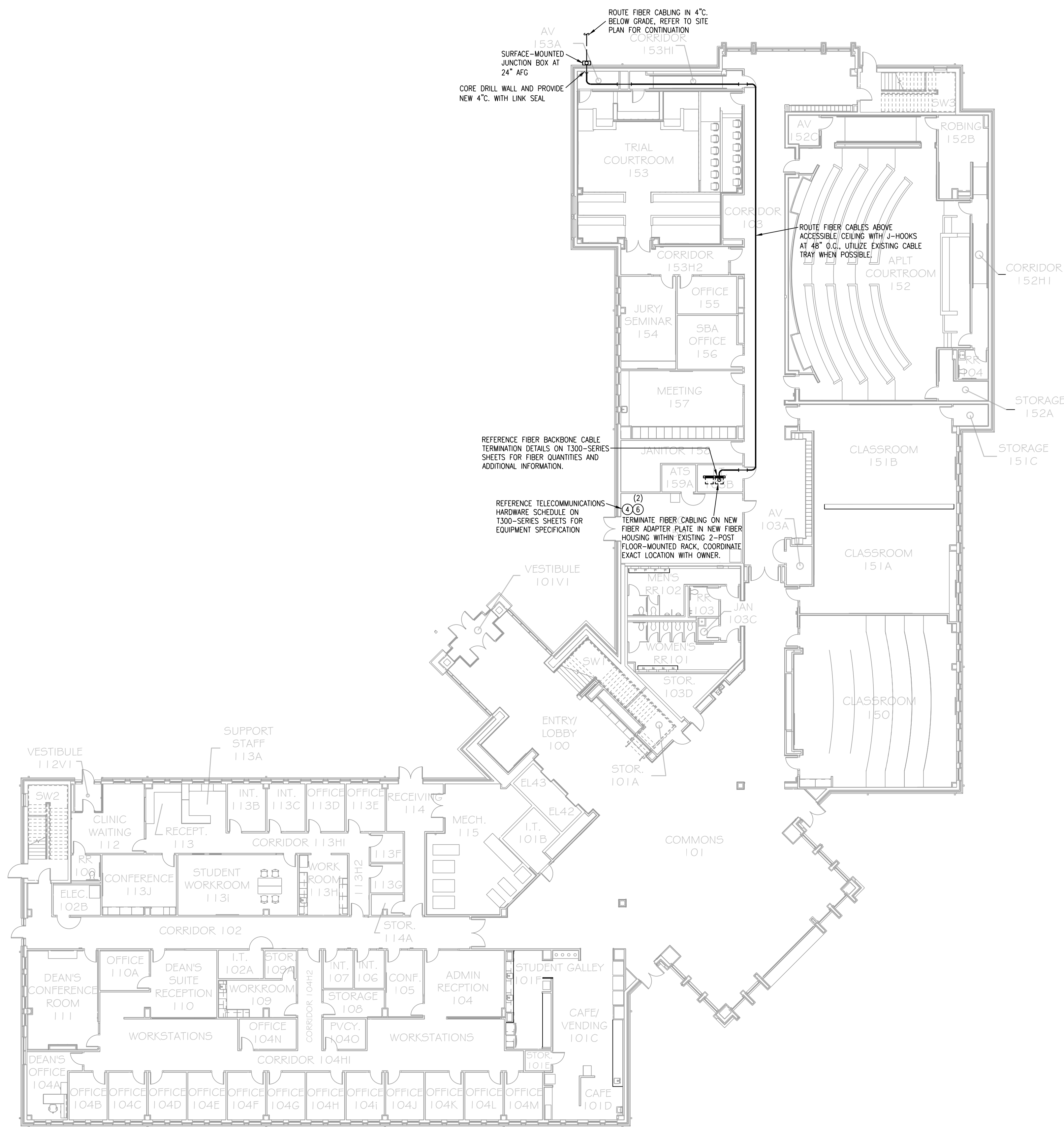
REVISIONS		
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DATE: 4/2/2025		
LSA PROJECT NO.: 2306002		
SHEET DESCRIPTION: CARNEGIE HALL - FIRST FLOOR PLAN		
SHEET NO.: T206		

NOTES:
1. REFER TO SHEET T301 FOR NOTES.

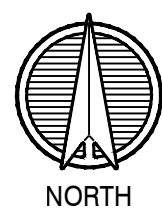
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1 ROBERT J. DOLE HALL - PARTIAL FIRST FLOOR PLAN
1/16"=1'-0"



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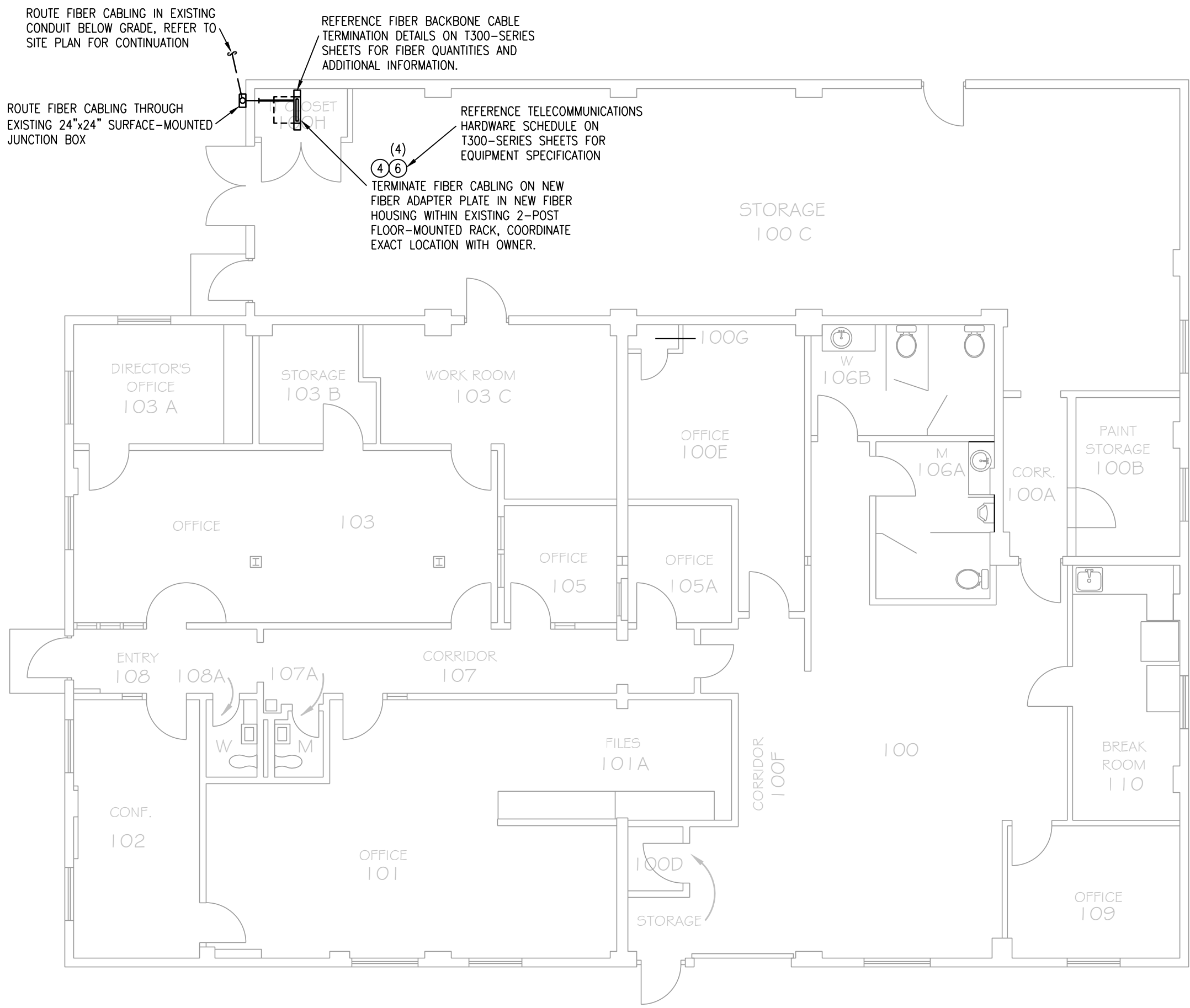
LSA PROJECT NO.:
2306002

SHEET DESCRIPTION:
ROBERT J. DOLE HALL -
PARTIAL FIRST FLR PLN

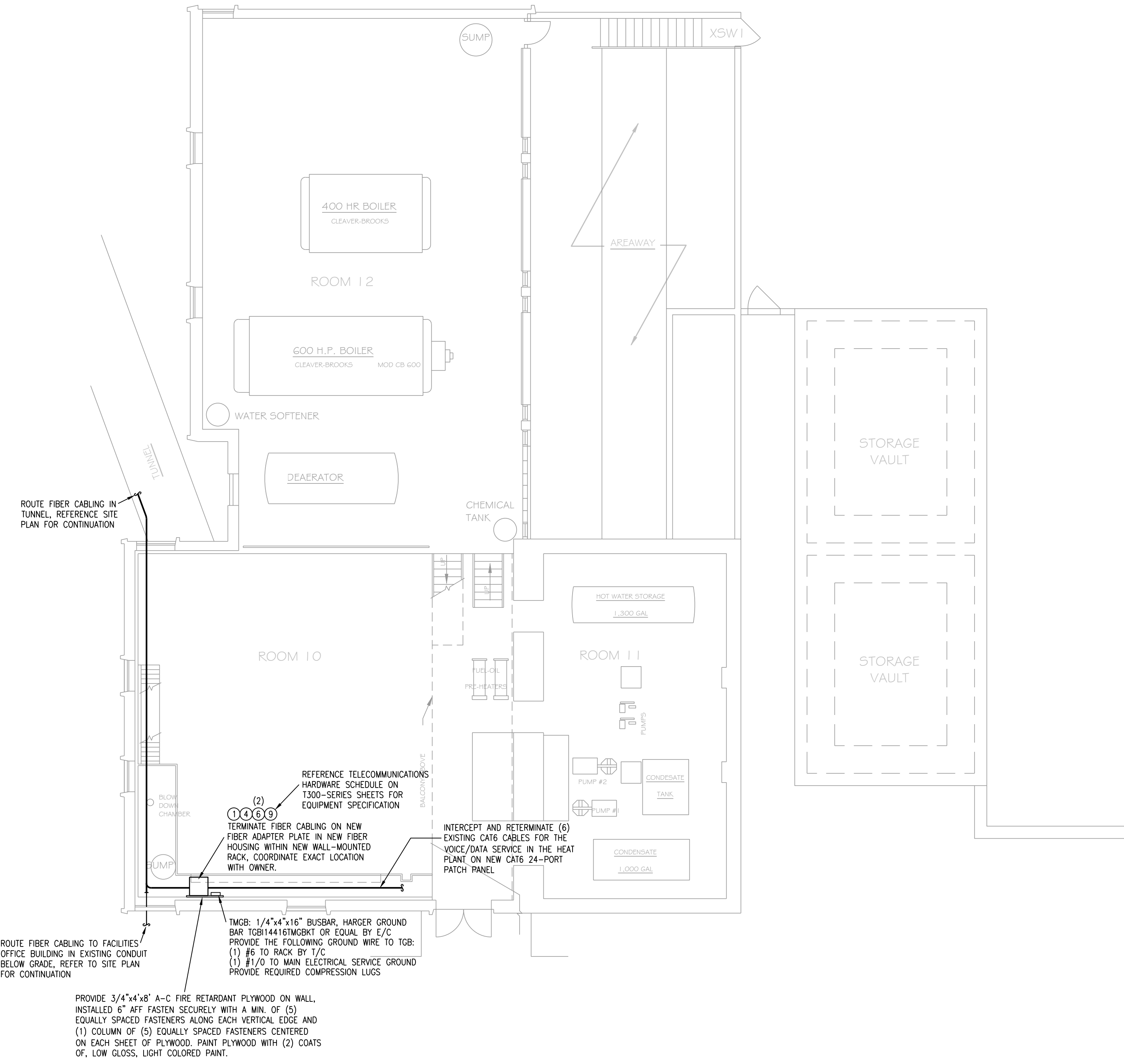
SHEET NO.:
T207

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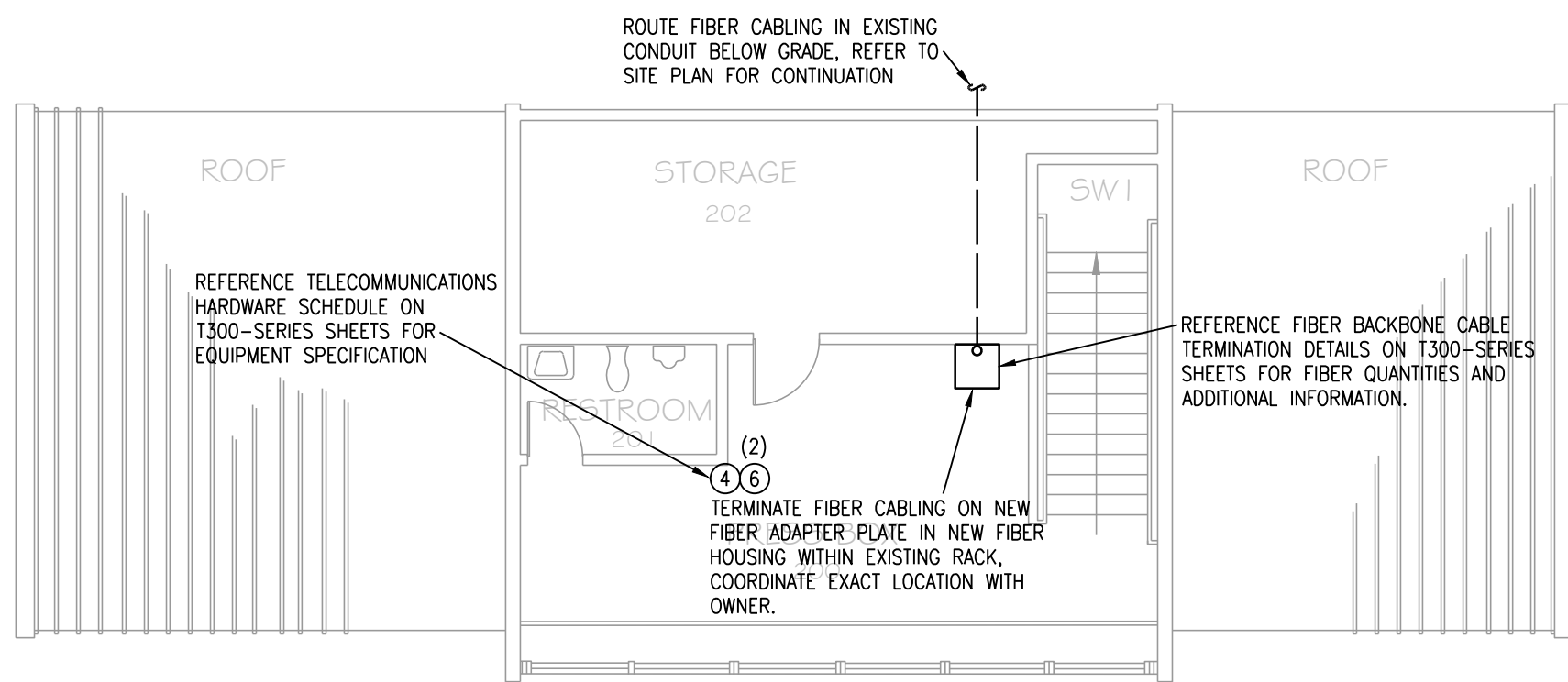
1. REFER TO SHEET T301 FOR NOTES.



1 FACILITIES SERVICES OFFICE FLOOR PLAN
1/8"=1'-0"



2 FACILITY HEAT PLANT - LOWER LEVEL
1/8" = 1'-0"



3 FALLEY FIELD PRESS BOX LEVEL FLOOR PLAN

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NO.	DESCRIPTION	DATE

DATE: 4/2/2025

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2306002

SHEET DESCRIPTION:
FACILITIES AND FALLEY
FIELD FLOOR PLANS

SHEET NO.:

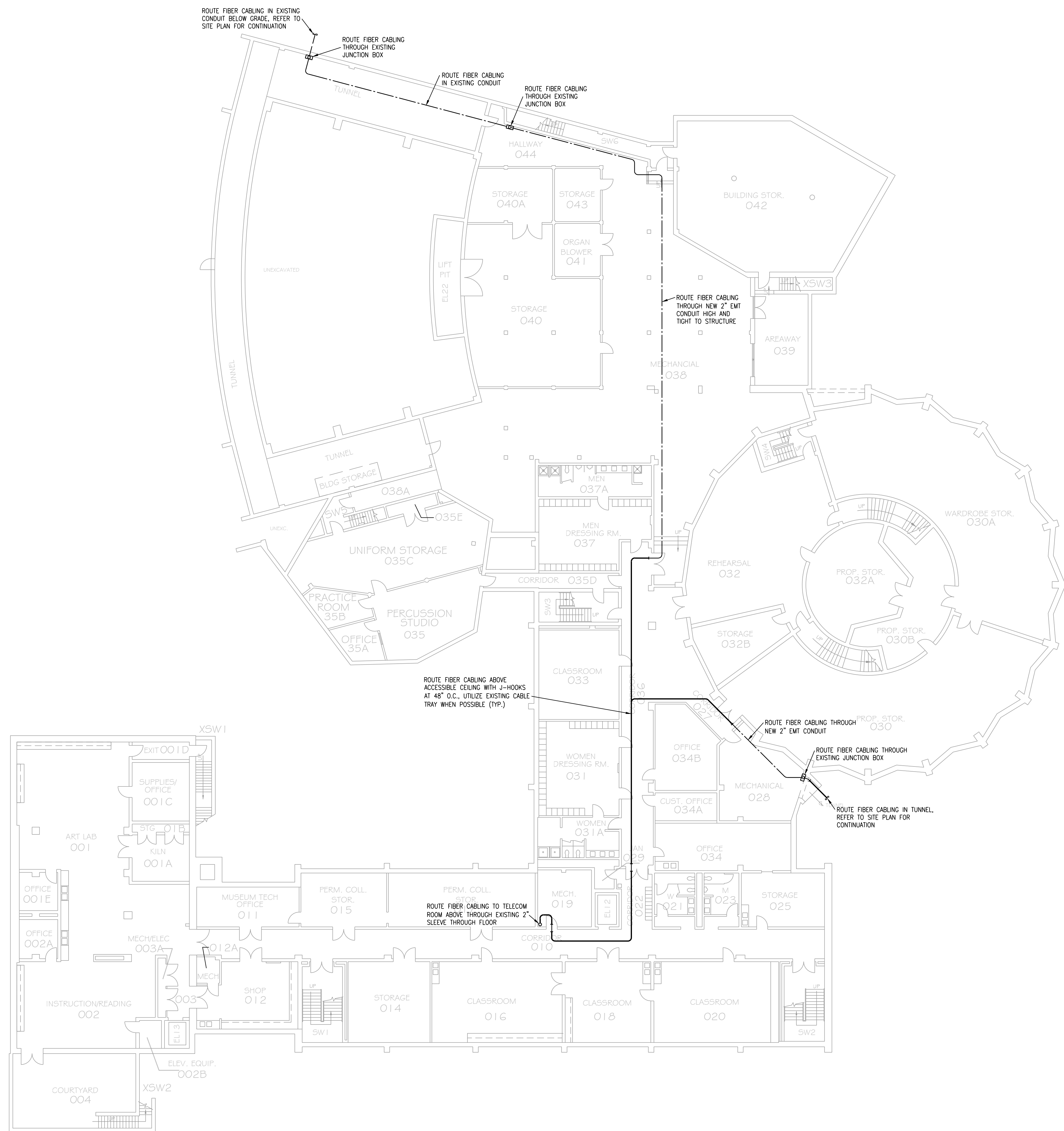
T208

NOTES:
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1 GARVEY FINE ARTS CENTER - BASEMENT FLOOR PLAN
1/16"=1'-0"



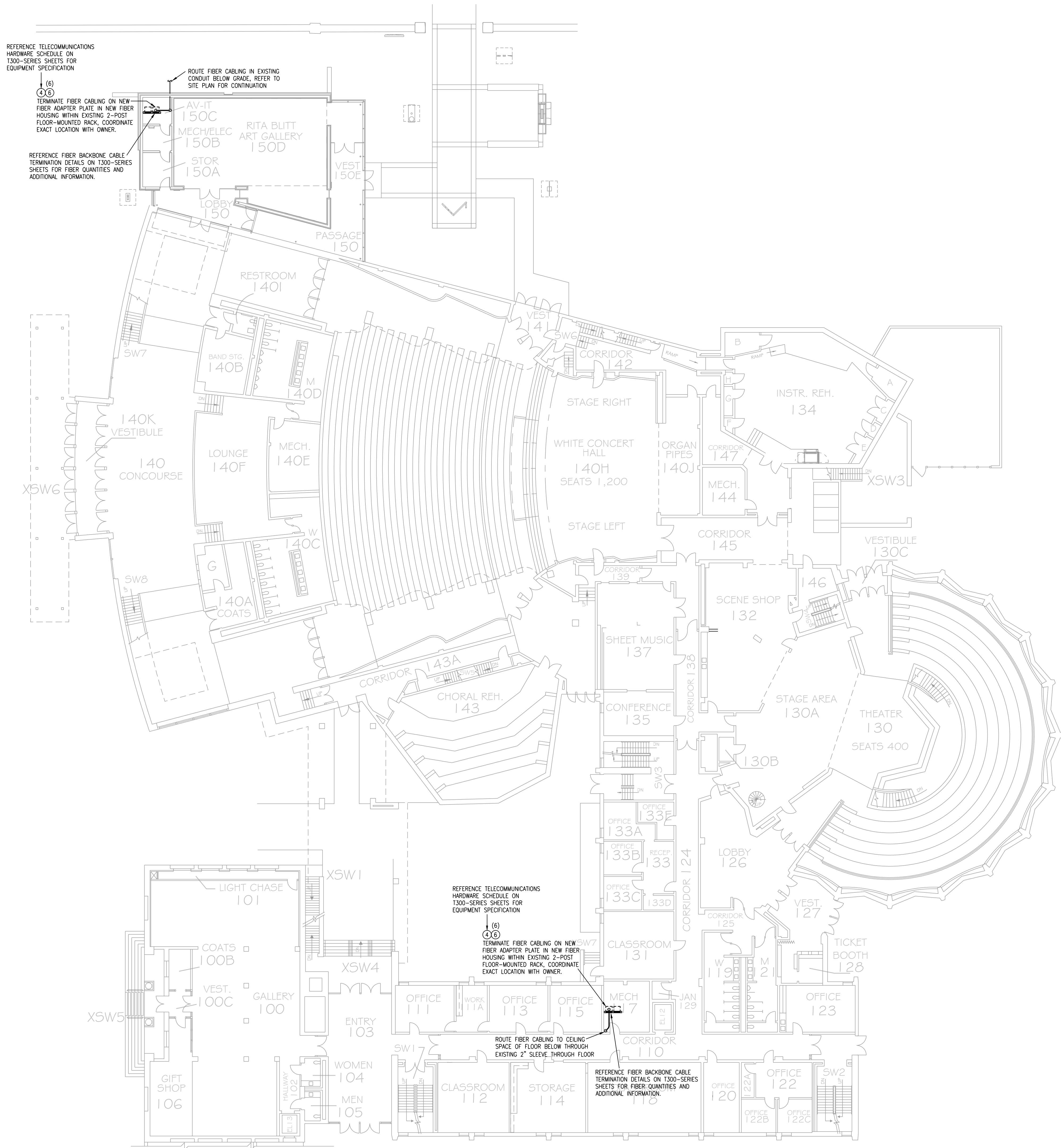
REVISIONS		
NO.	DESCRIPTION	DATE
DATE: 4/2/2025		
LSA PROJECT NO.: 2306002		
SHEET DESCRIPTION: GARVEY FINE ARTS CTR - PRTL BASEMENT FLR PLN		
SHEET NO.: T209		

NOTES:
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1 GARVEY FINE ARTS CENTER - FIRST FLOOR PLAN
1/16"=1'-0"



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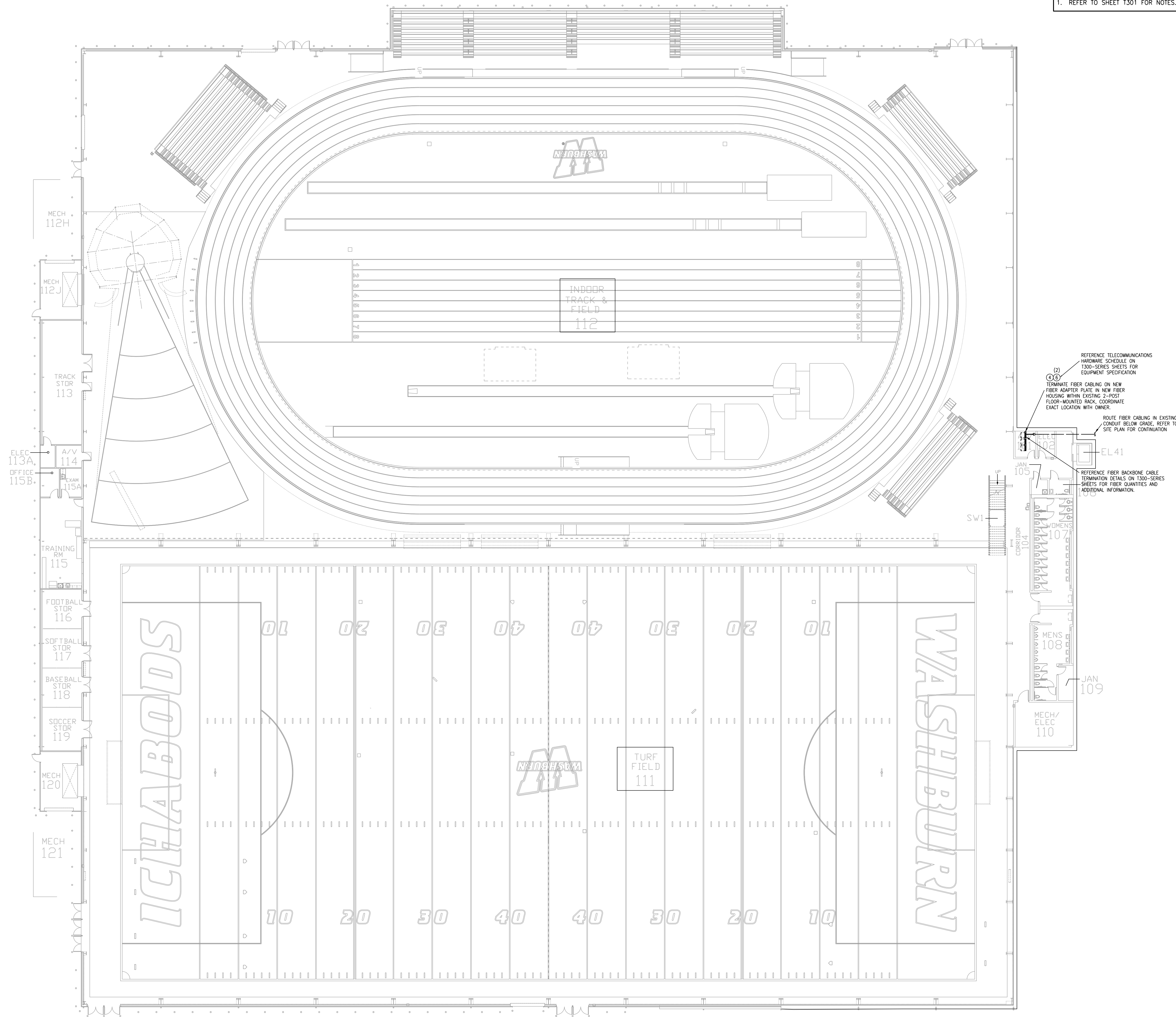
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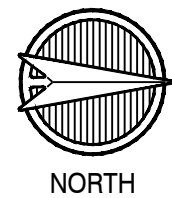
SHEET DESCRIPTION:
GARVEY FINE ARTS CTR -
PRTL BASEMENT FLR PLN

SHEET NO.:
T210

NOTES:
1. REFER TO SHEET T301 FOR NOTES.



1 INDOOR ATHLETIC FACILITY - FIELD LEVEL PLAN
1/16"=1'-0"



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Fiber Backbone and Network Infrastructure Upgrades
1700 SW College Avenue
Topeka, Kansas 66621

REVISIONS		
NO.	DESCRIPTION	DATE

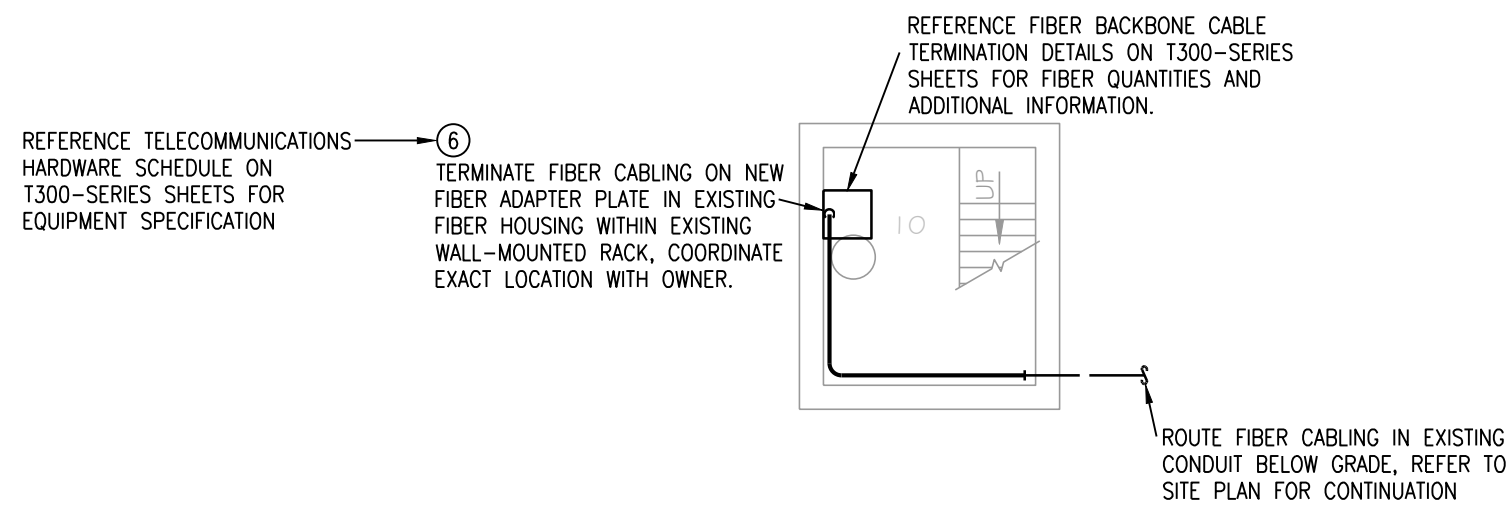
DATE:
4/2/2025

LSA PROJECT NO.:
2306002

SHEET DESCRIPTION:
INDOOR ATHLETIC
FACILITY - FIELD LVL PLN

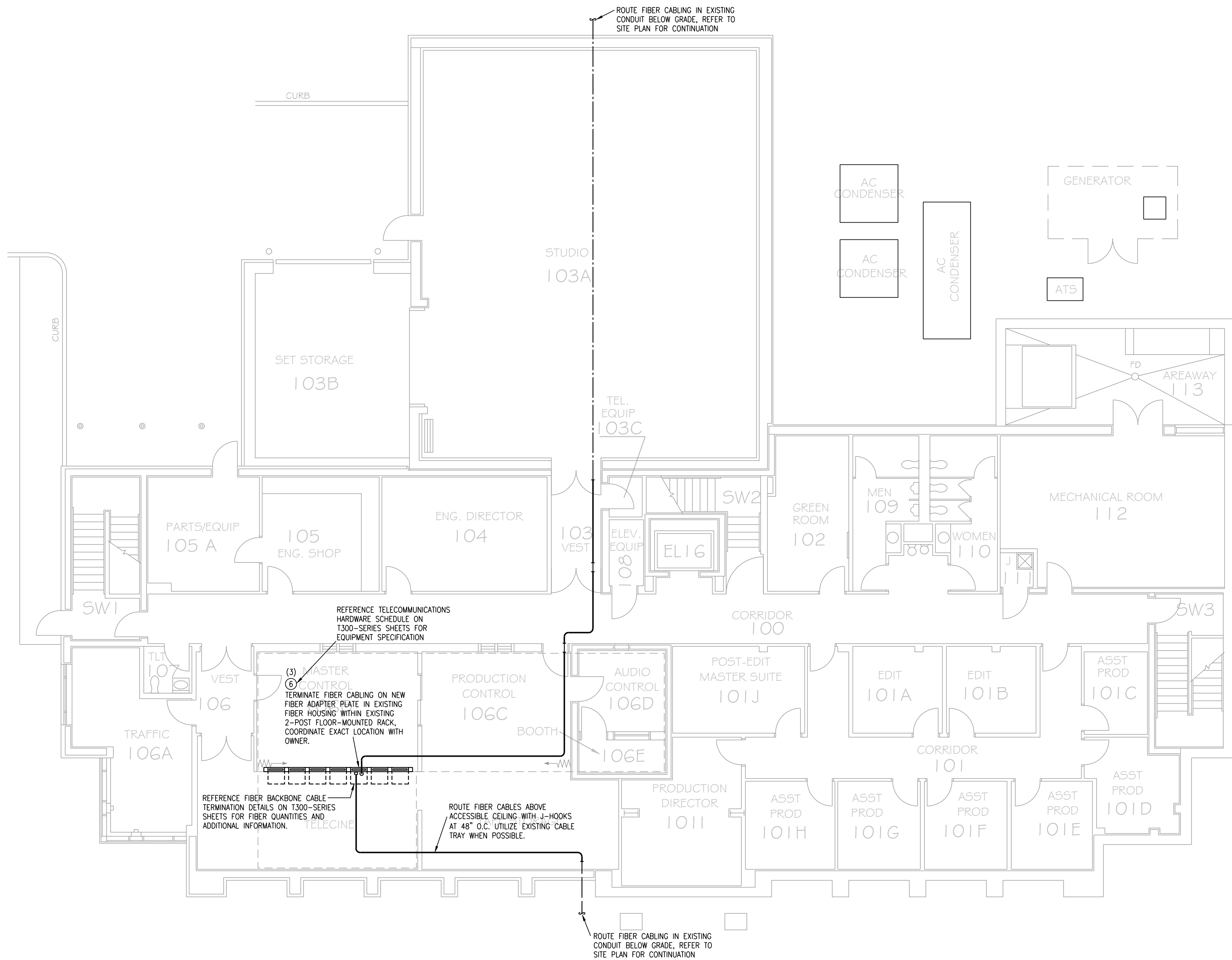
SHEET NO.:
T211

NOTES:
1. REFER TO SHEET T301 FOR NOTES.



(LOCATED BELOW ROOM 103)

1 INTERNATIONAL CENTER - BASEMENT PLAN
1/8"=1'-0"



2 KTWU TV STUDIO - BASEMENT PLAN
1/8"=1'-0"



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NO.	DESCRIPTION	DATE
DATE: 4/2/2025		
LSA PROJECT NO.: 2306002		
SHEET DESCRIPTION: INTERNATIONAL CTR & KTWU- BASEMENT		
SHEET NO.: T212		

NOTES:
1. REFER TO SHEET T301 FOR NOTES.



NEW 2" C. ATTACHED TO CEILING STRUCTURE

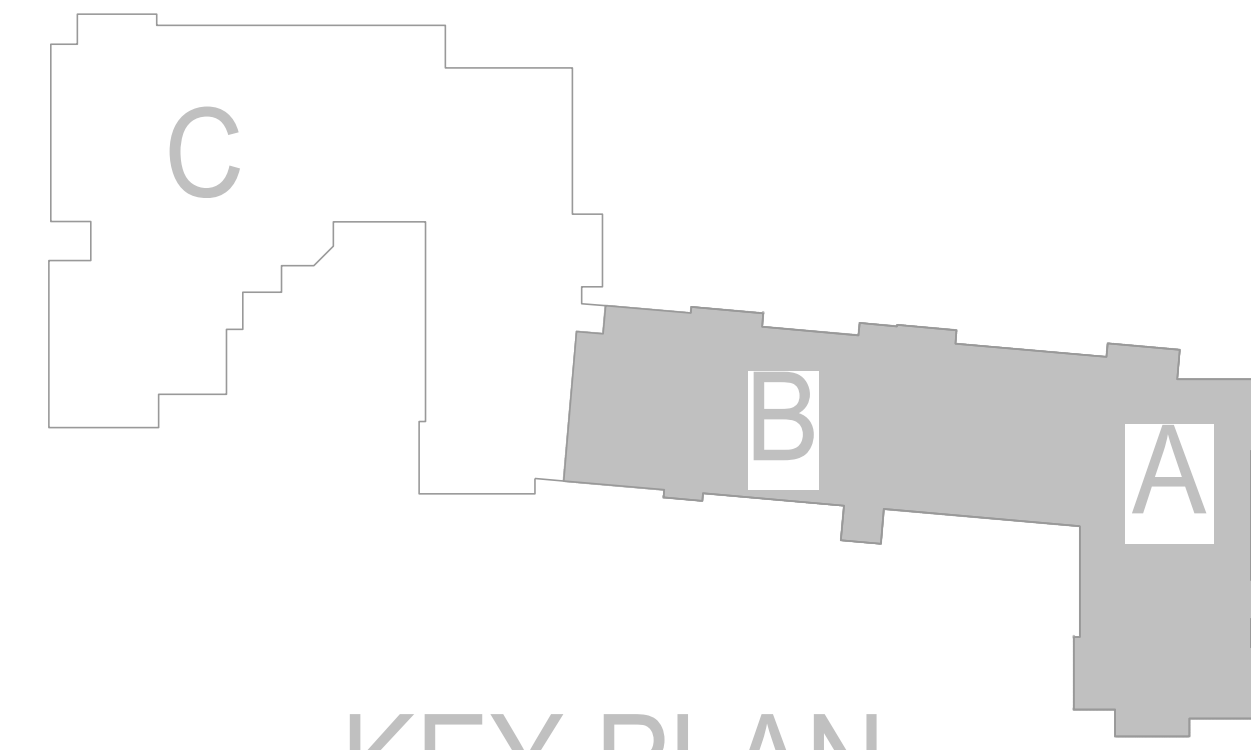
CORE DRILL WALL, PROVIDE LINK SEAL, AND PROVIDE NEW 2" C. BELOW GRADE TO ROUTE FIBER. REFER TO SITE PLAN FOR CONTINUATION

ROUTE FIBER CABLES ABOVE ACCESSIBLE CEILING WITH J-HOOKS AT 48" O.C.

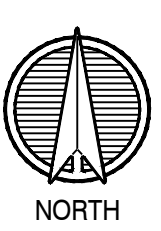
REFERENCE FIBER BACKBONE CABLE TERMINATION DETAILS ON T300-SERIES SHEETS FOR FIBER QUANTITIES AND ADDITIONAL INFORMATION.

REFERENCE TELECOMMUNICATIONS HARDWARE SCHEDULE ON T300-SERIES SHEETS FOR EQUIPMENT SPECIFICATION

(2) TERMINATE FIBER CABLE ON NEW FIBER ADAPTER PLATE IN NEW FIBER HOUSING WITHIN EXISTING 2-POST FLOOR-MOUNTED BRACK. COORDINATE EXACT LOCATION WITH OWNER.



1 LINCOLN HALL HOUSING - BASEMENT FLOOR PLAN
1/8"=1'-0" AREAS A AND B



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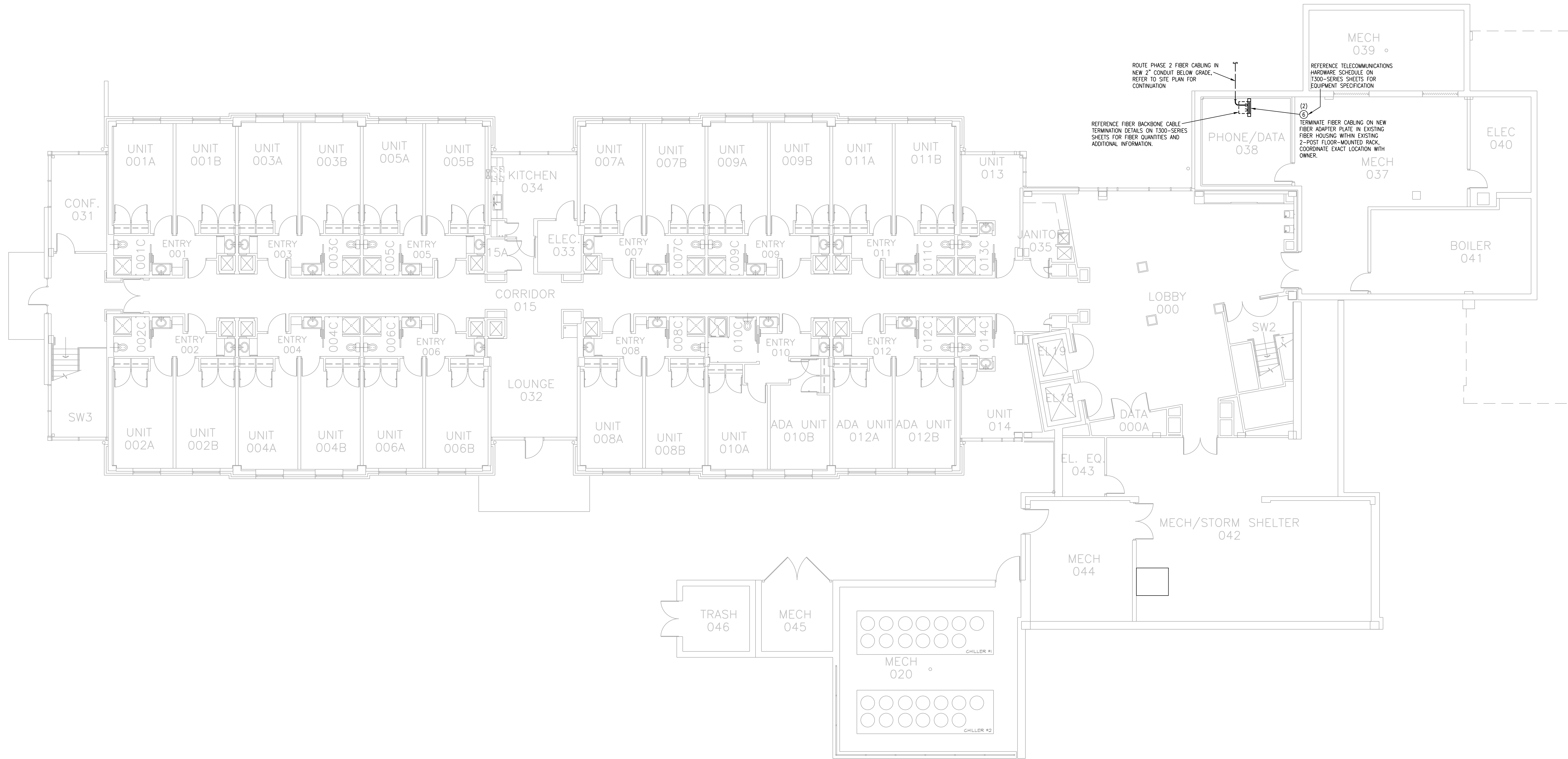
REVISIONS		
NO.	DESCRIPTION	DATE
DATE: 4/2/2025		
LSA PROJECT NO.: 2306002		
SHEET DESCRIPTION: LINCOLN HALL HOUSING - BASEMENT FLOOR PLAN		
SHEET NO.: T213		

NOTES:
1. REFER TO SHEET T301 FOR NOTES.

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1 LIVING LEARNING CENTER - LOWER LEVEL FLOOR PLAN
1/8" = 1'-0"



REVISIONS		
NO.	DESCRIPTION	DATE

DATE: 4/2/2025

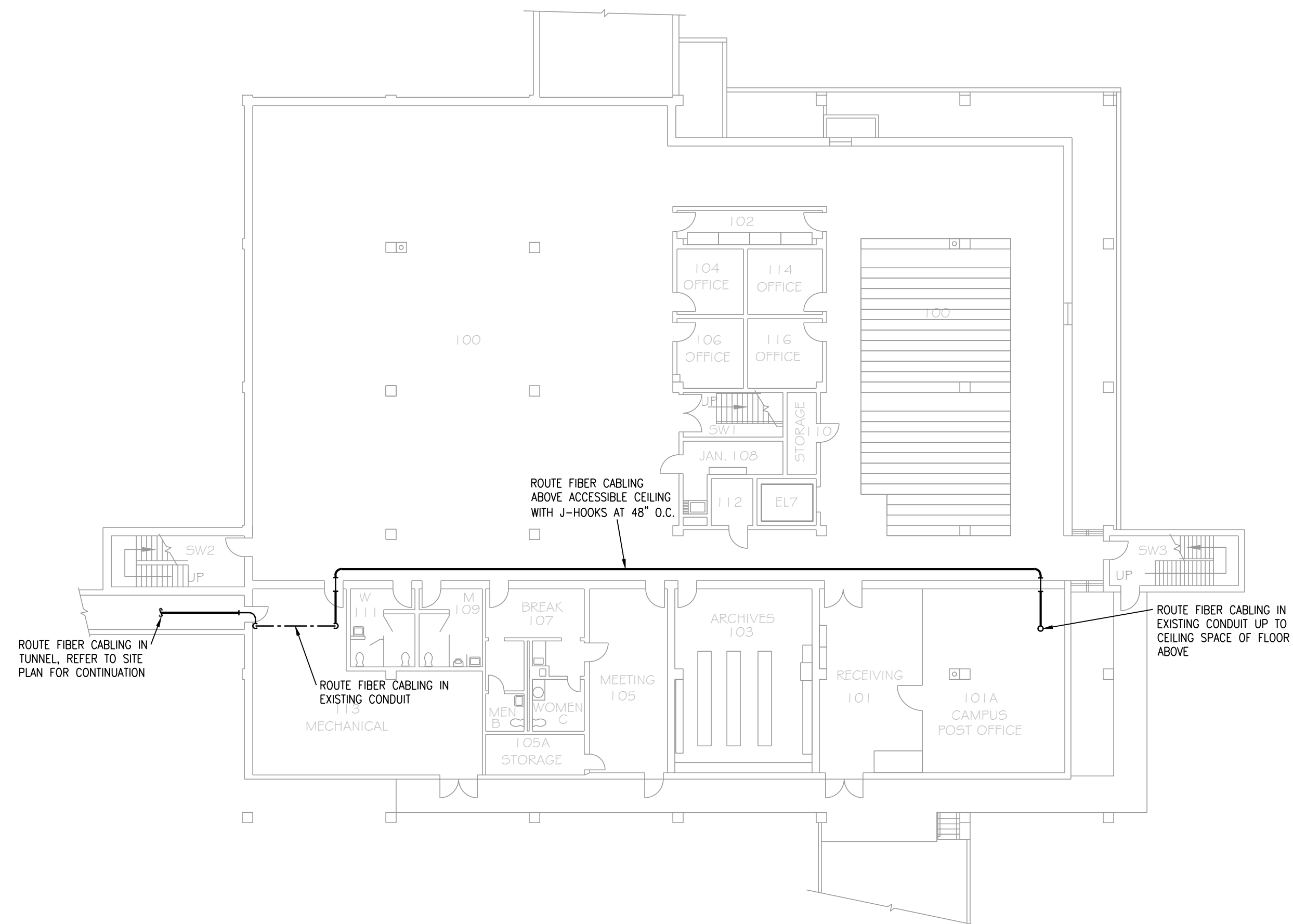
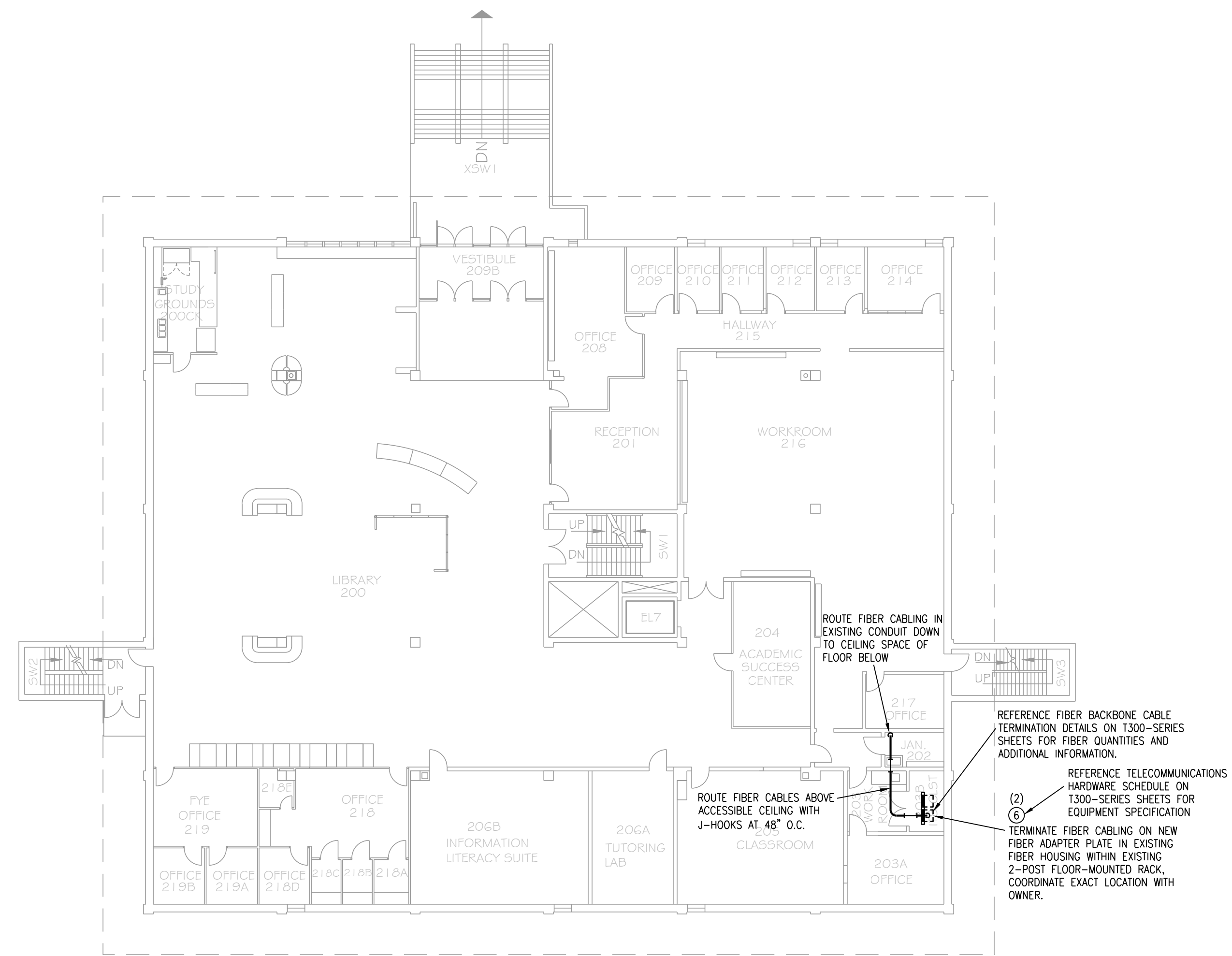
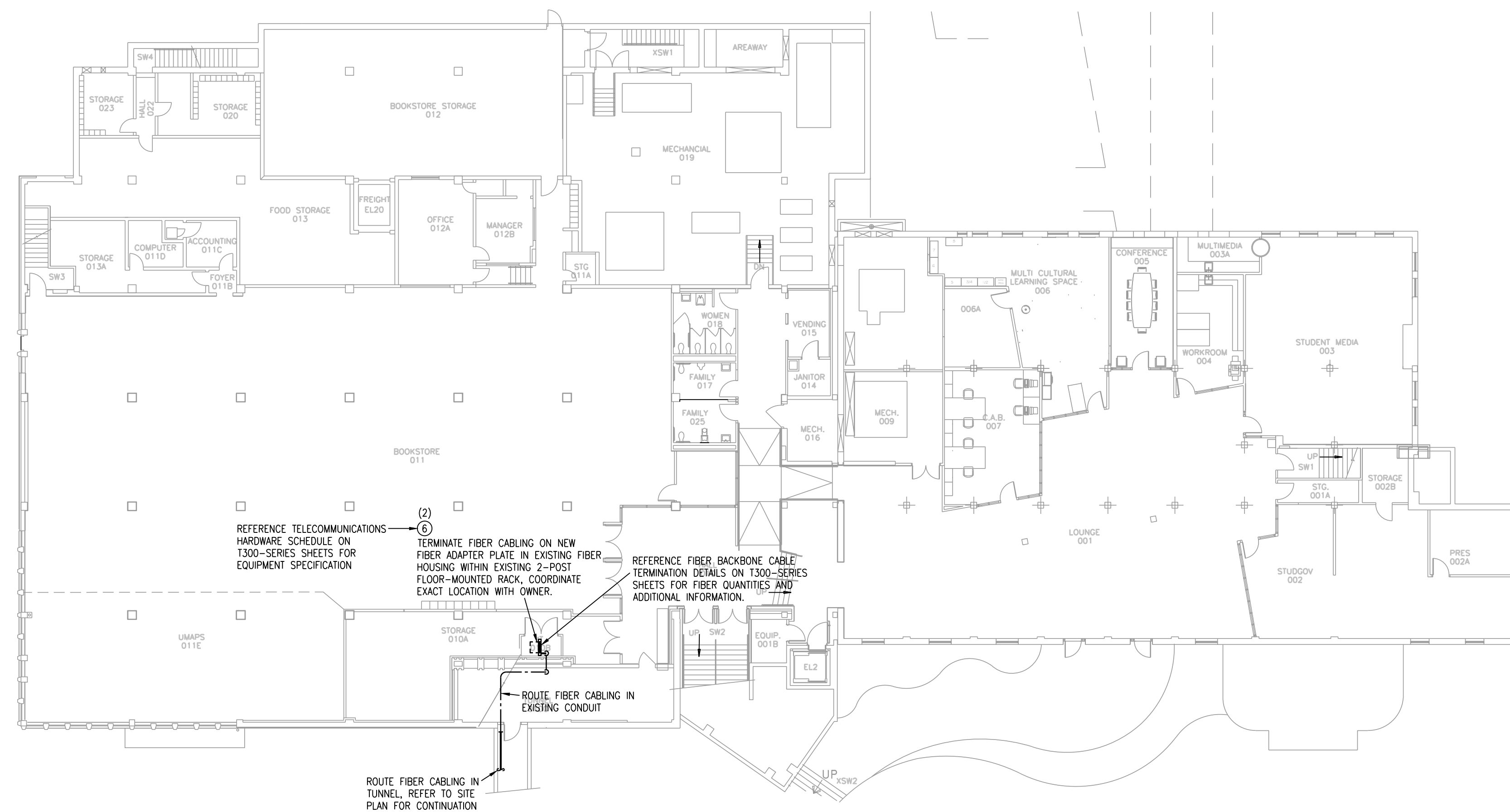
LSA PROJECT NO.: 2306002

SHEET DESCRIPTION:
LIVING LEARNING CENTER
- LOWER LEVEL FLR PLAN

SHEET NO.: T214

NOTES:

1. REFER TO SHEET T301 FOR NOTES.

1 MABEE LIBRARY - FIRST FLOOR PLAN
1/16"=1'-0"2 MABEE LIBRARY - SECOND FLOOR PLAN
1/16"=1'-0"

NOTES:

1. REFER TO SHEET T301 FOR NOTES.

1 MOR
1/8" = 1'-0"



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REVISIONS		
NO.	DESCRIPTION	DATE

DATE: _____

4/2/2025

LSA PROJECT NO.: _____

2306002

SHEET DESCRIPTION: _____

**MORGAN HALL -
BASEMENT FLOOR PLAN**

SHEET NO.: _____

T216

NOTES:
1. REFER TO SHEET T301 FOR NOTES.

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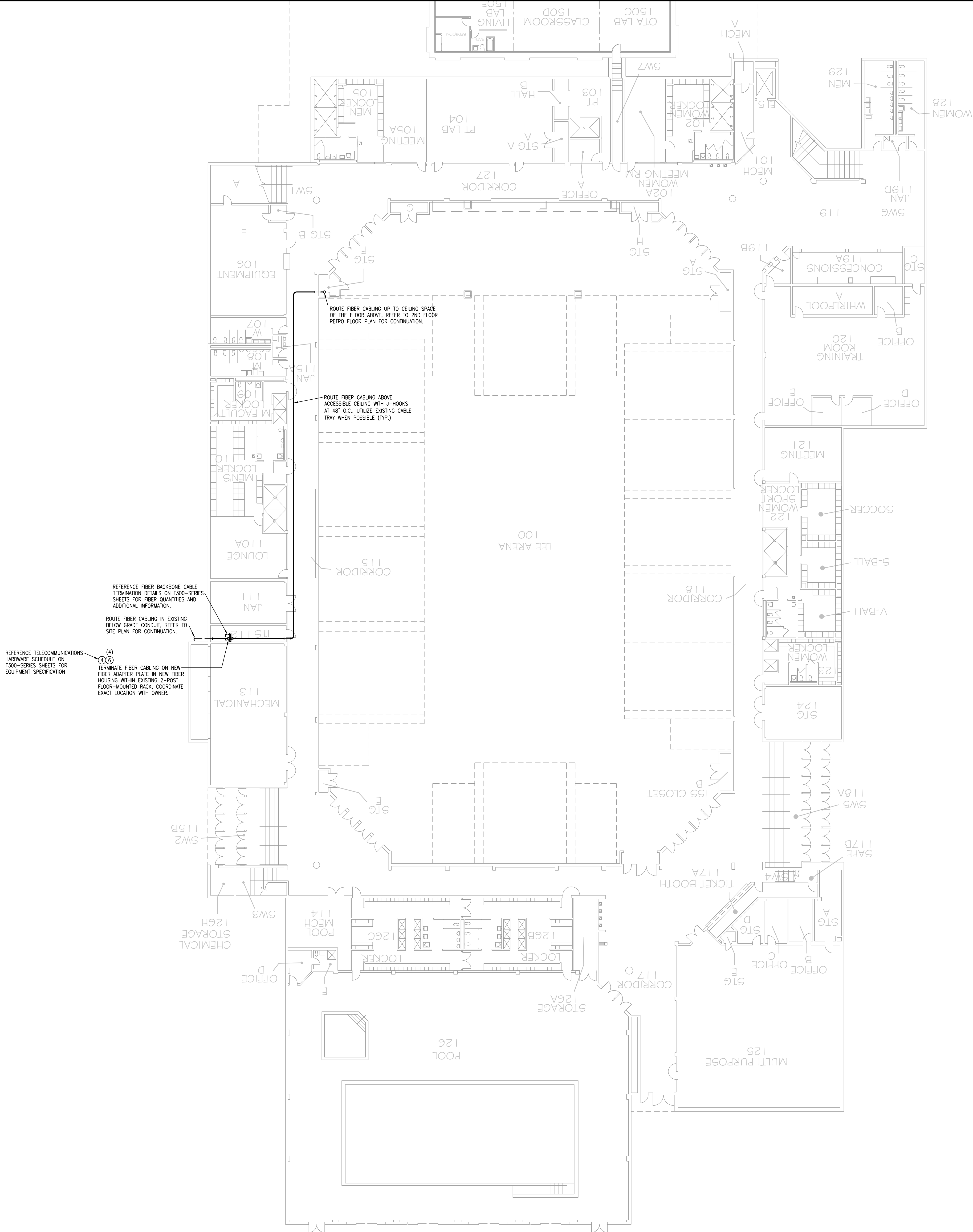
REVISIONS		
NO.	DESCRIPTION	DATE

DATE:
4/2/2025

LSA PROJECT NO.:
2306002

SHEET DESCRIPTION:
**PETRO ALLIED HEALTH -
PARTIAL 1ST FLR PLN**

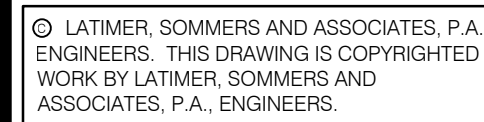
SHEET NO.:
T217



1 PETRO ALLIED HEALTH CENTER - PARTIAL FIRST FLOOR PLAN
1/16\"=1'-0\" NORTH



1. REFER TO SHEET T301 FOR NOTES.

[illegible]

SHEET NO.:

T218

NOTES:
1. REFER TO SHEET T301 FOR NOTES.

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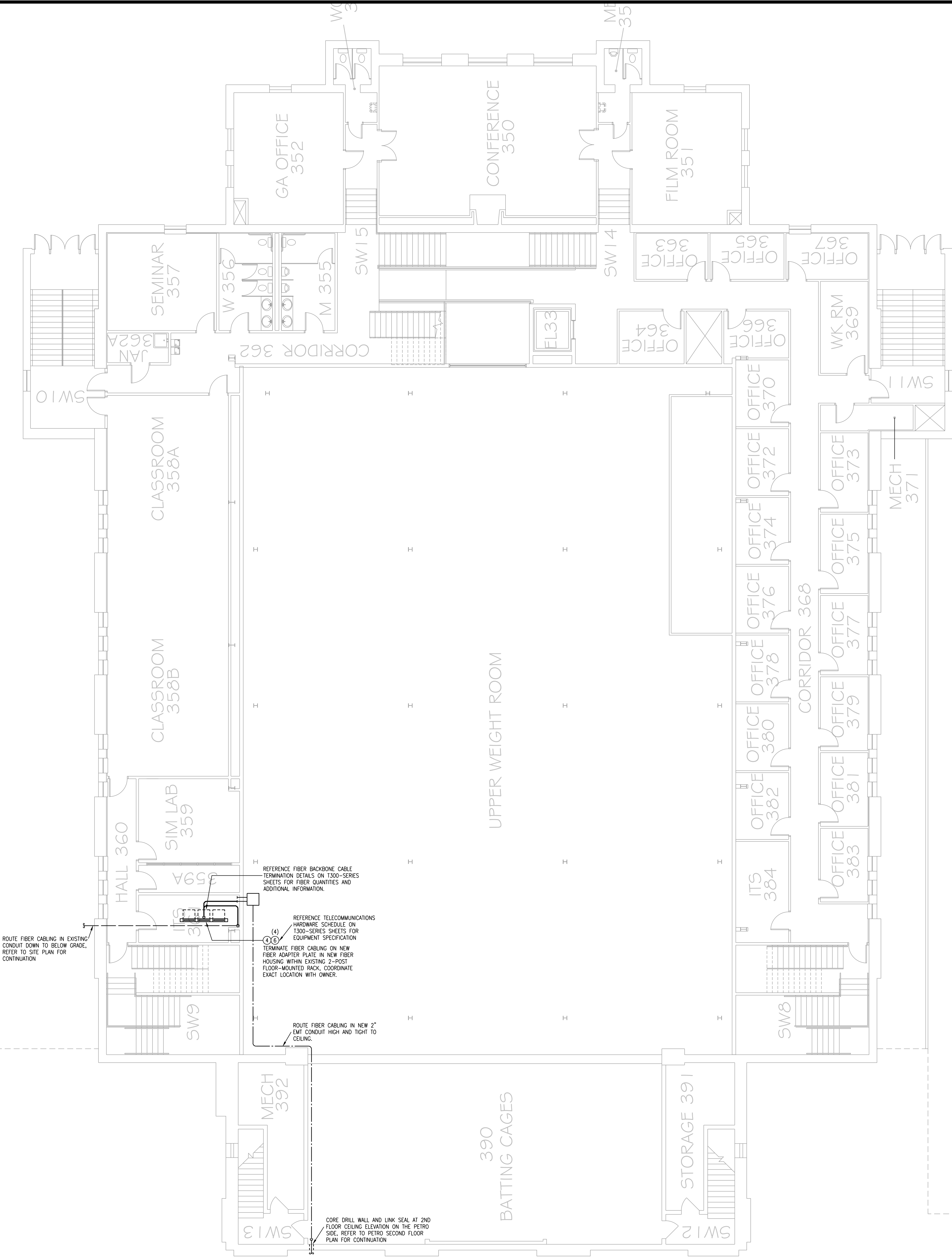
REVISIONS		
NO.	DESCRIPTION	DATE

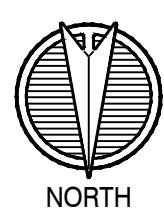
DATE:
4/2/2025

LSA PROJECT NO.:
2306002

SHEET DESCRIPTION:
**WHITING FIELDHOUSE -
3RD FLOOR PLAN**

SHEET NO.:
T219



1 WHITING - THIRD FLOOR PLAN
1/8"=1'-0" 

NOTES:
1. REFER TO SHEET T301 FOR NOTES.

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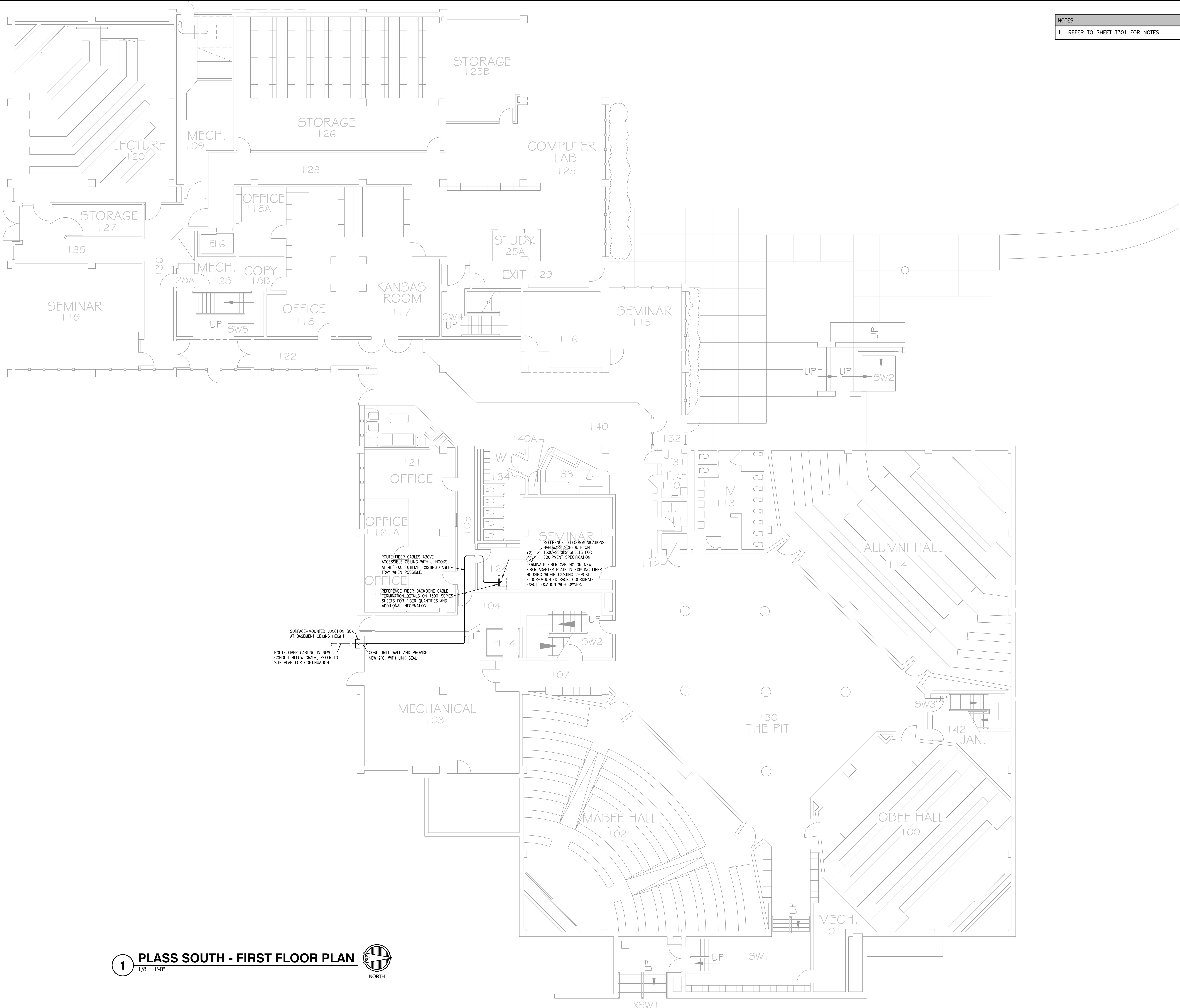
REVISIONS		
NO.	DESCRIPTION	DATE

DATE:
4/2/2025

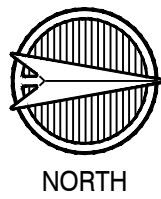
LSA PROJECT NO.:
2306002

SHEET DESCRIPTION:
PLASS SOUTH - FIRST
FLOOR PLAN

SHEET NO.:
T220



1 PLASS SOUTH - FIRST FLOOR PLAN
1/8"=1'-0"

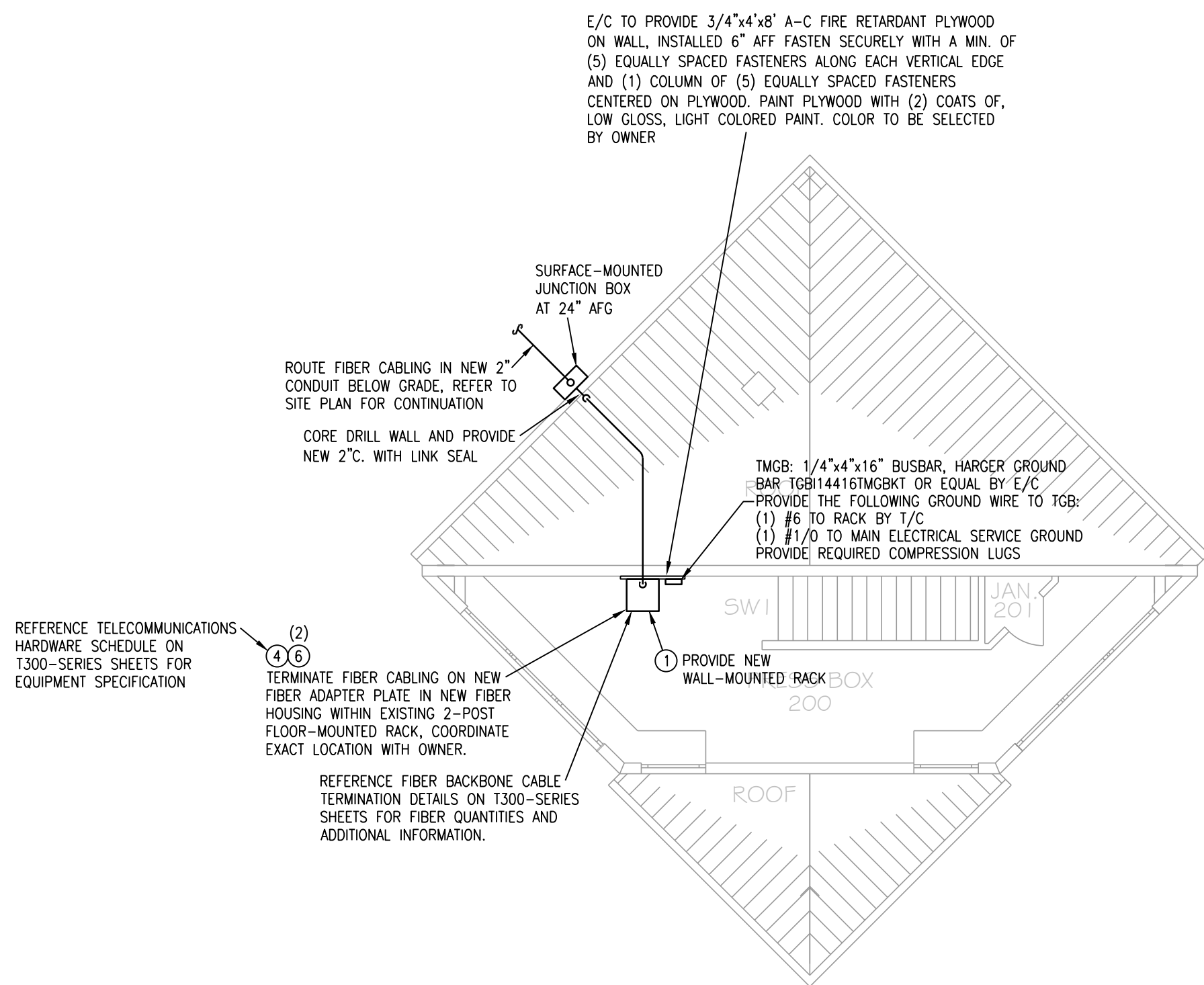


NOTES:
1. REFER TO SHEET T301 FOR NOTES.

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1 **SOFTBALL COMPLEX - 2ND FLOOR**
1/8"=1'-0"
NORTH

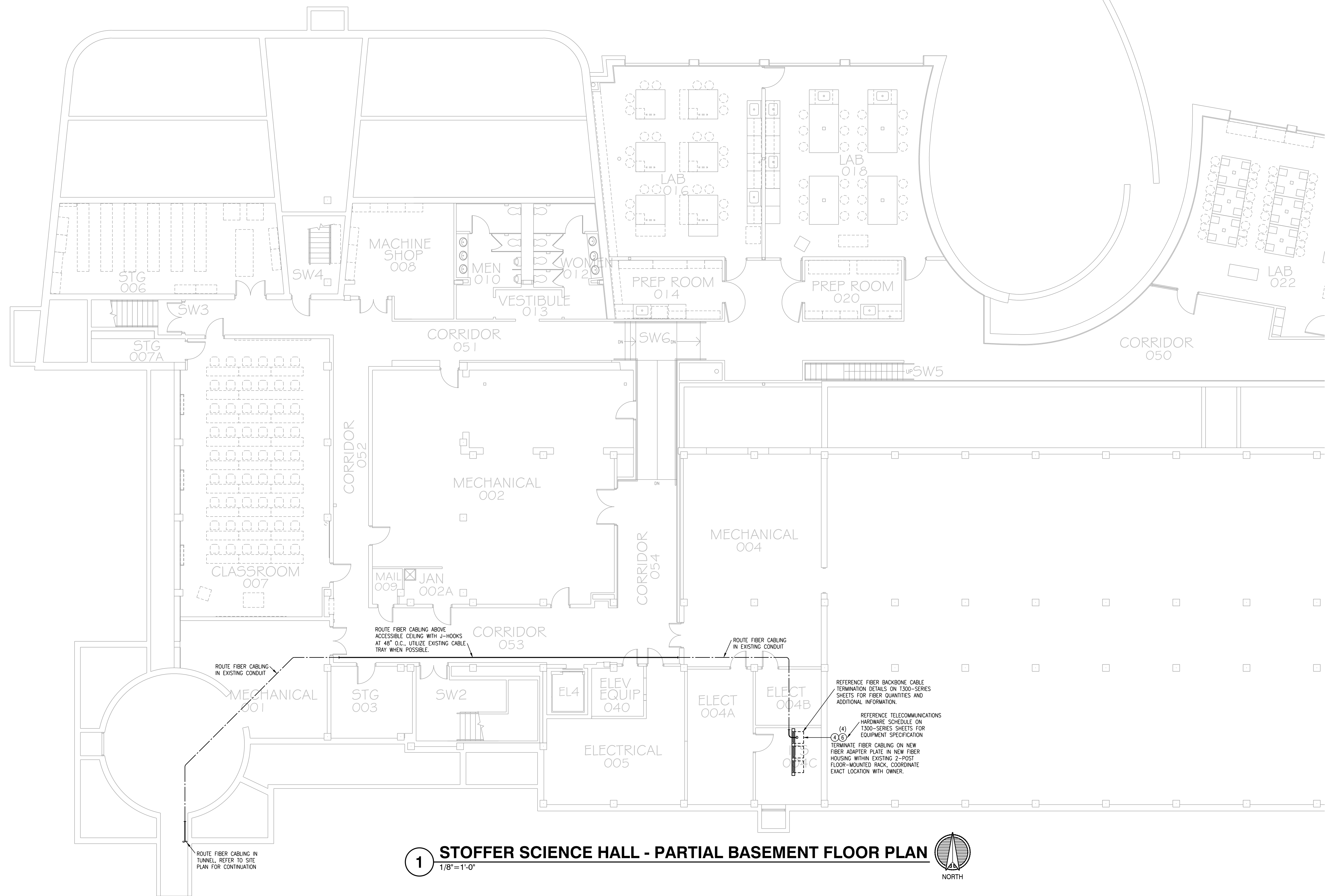
REVISIONS		
NO.	DESCRIPTION	DATE
DATE: 4/2/2025		
LSA PROJECT NO.: 2306002		
SHEET DESCRIPTION: SOFTBALL - FLOOR PLAN		
SHEET NO.: T221		

NOTES:
1. REFER TO SHEET T301 FOR NOTES.

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1 STOFFER SCIENCE HALL - PARTIAL BASEMENT FLOOR PLAN
1/8"=1'-0"



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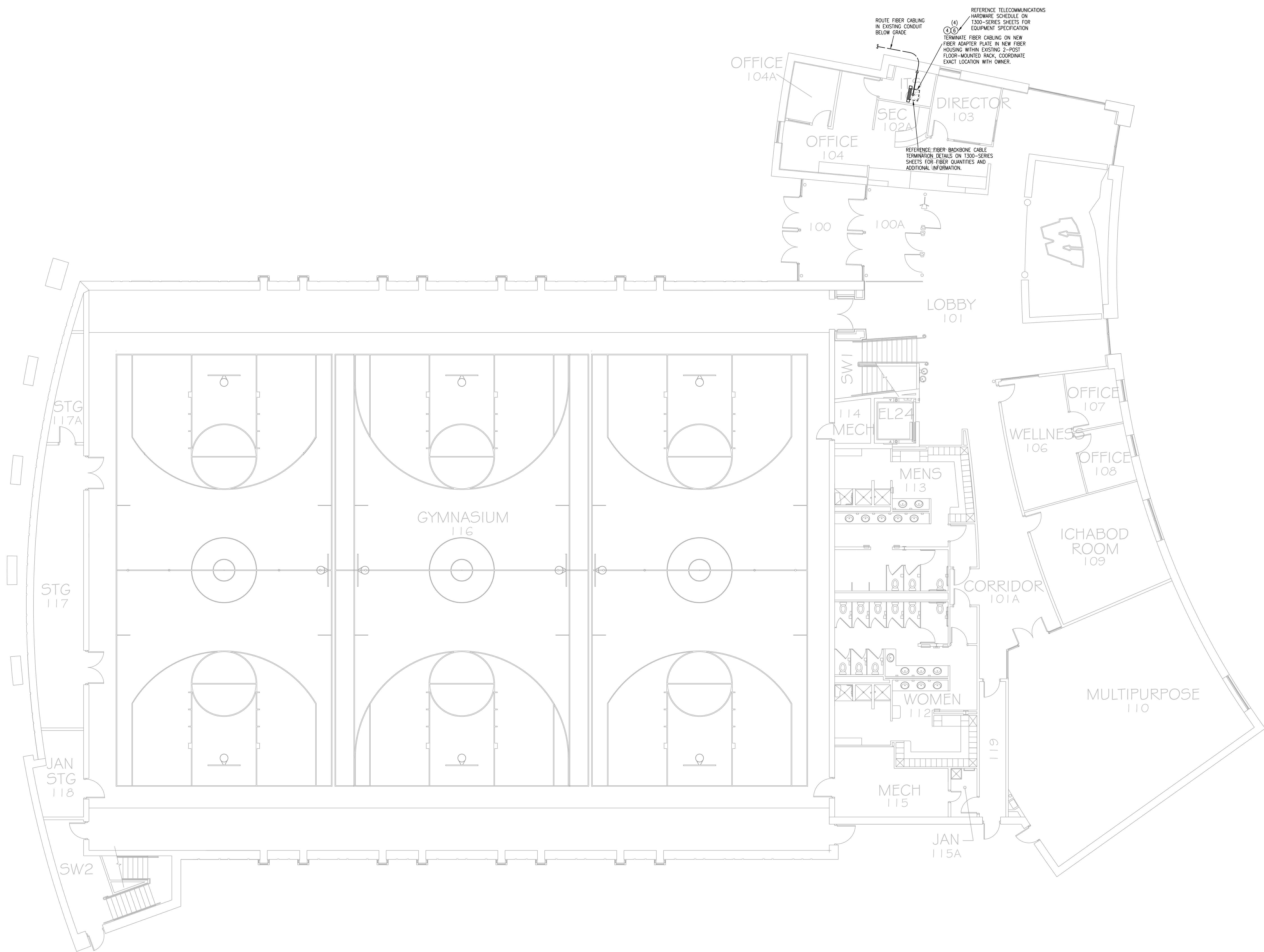
DATE:
4/2/2025

LSA PROJECT NO.:
2306002

SHEET DESCRIPTION:
**STOFFER SCIENCE HALL -
PARTIAL BMNT FLR PLN**

SHEET NO.:
T222

NOTES:
1. REFER TO SHEET T301 FOR NOTES.



1 STUDENT REC CENTER - FIRST FLOOR PLAN
1/8"=1'-0"

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NO.	DESCRIPTION	DATE

DATE:
4/2/2025

LSA PROJECT NO.:
2306002

SHEET DESCRIPTION:
**STUDENT REC CENTER -
FIRST FLOOR PLAN**

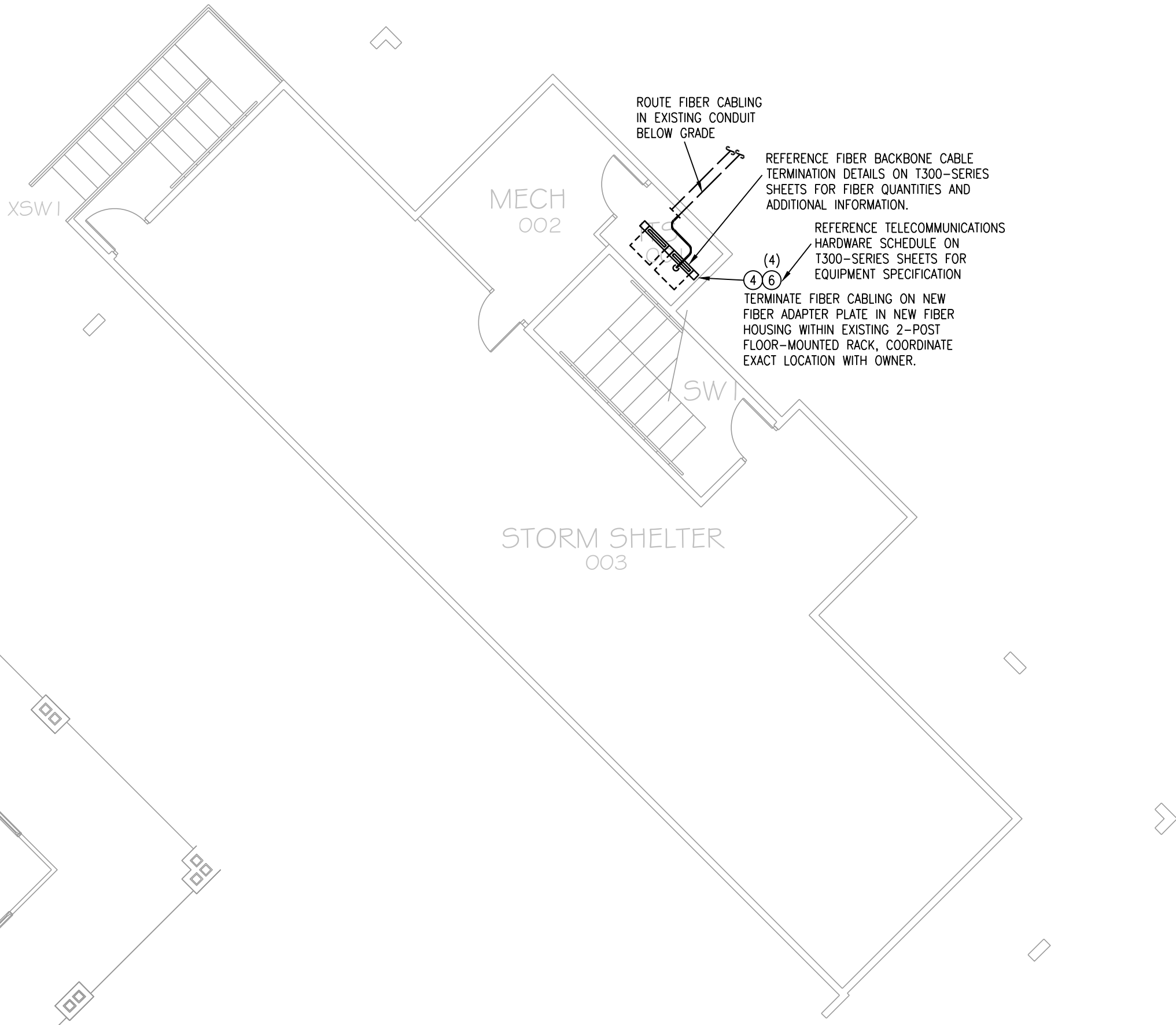
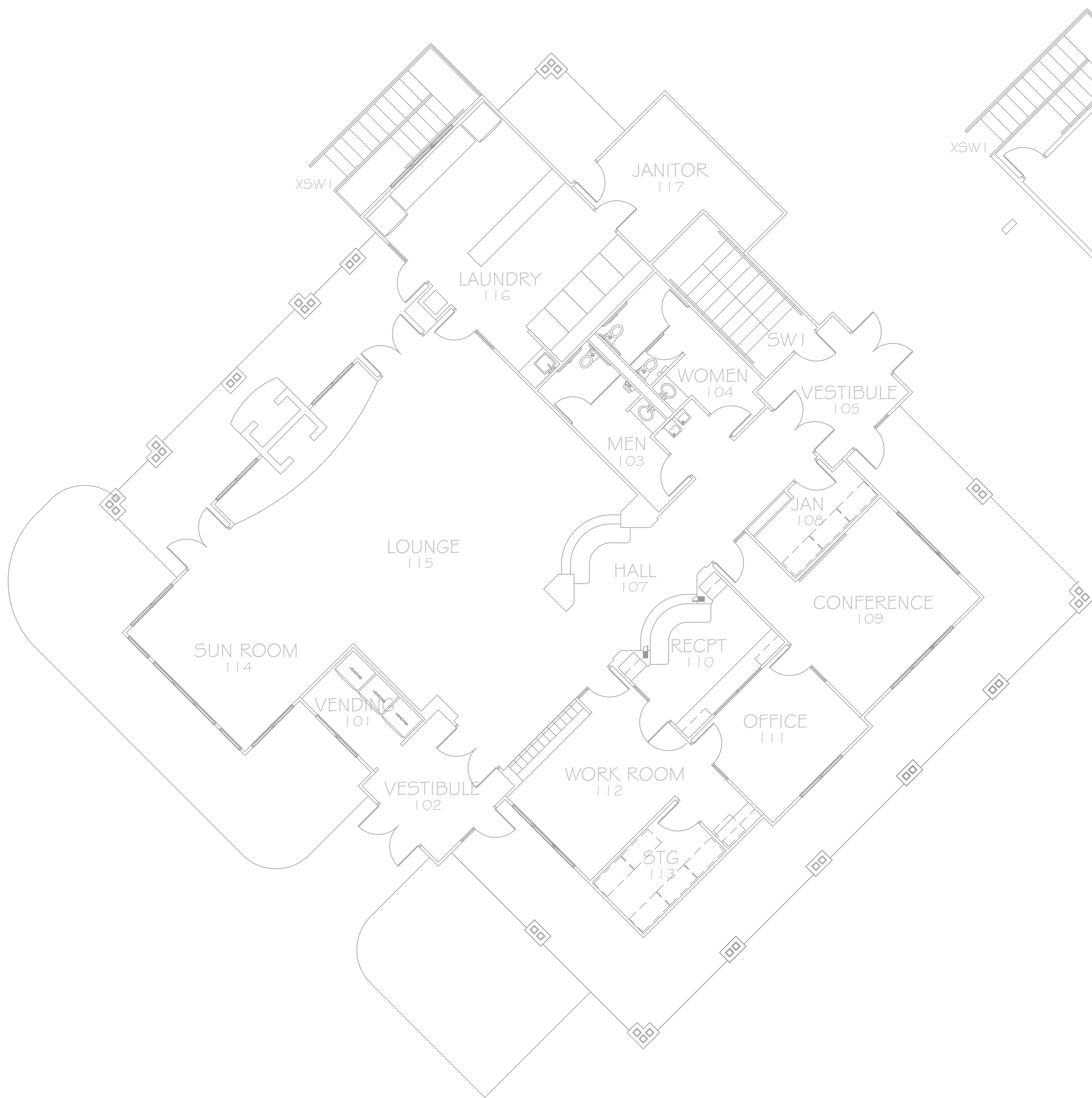
SHEET NO.:
T223

NOTES:
1. REFER TO SHEET T301 FOR NOTES.

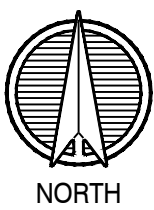
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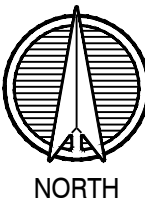
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2 COMMONS BUILDING - BASEMENT FLOOR PLAN
1/8"=1'-0"



1 COMMONS BUILDING - FIRST FLOOR PLAN
1/8"=1'-0"



REVISIONS		
NO.	DESCRIPTION	DATE
DATE: 4/2/2025		
LSA PROJECT NO.: 2306002		
SHEET DESCRIPTION: COMMONS BUILDING - BASEMENT & 1ST FLR PLN		
SHEET NO.: T224		

SYMBOL	DESCRIPTION	REMARKS
▼	TELECOMMUNICATIONS OUTLET	1
▼W	TELECOMMUNICATIONS OUTLET WALL PHONE PLATE	2
▼AV	AUDIO/VISUAL OUTLET	3
---	EMT CONDUIT BY E/C (1 1/4" UNLESS NOTED OTHERWISE)	4
---	EMT SLEEVE BY E/C (2" UNLESS NOTED OTHERWISE)	4
⊕	DUPLEX RECEPTACLE	
⊕	FOURPLEX RECEPTACLE	
■	SURFACE PANELBOARD	
---	WIRE BASKET RUNWAY	
AFF	ABOVE FINISHED FLOOR	
T/C	TELECOMMUNICATION CONTRACTOR	
E/C	ELECTRICAL CONTRACTOR	
G/C	GENERAL CONTRACTOR	
AC	DEVICE LOCATED ABOVE COUNTER	
TNGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR	
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR	
---	TELECOMMUNICATIONS CABLING	5
TEMP	TEMPERATURE CONTROL PANEL	
FACP	FIRE ALARM CONTROL PANEL	
SM	SINGLEMODE FIBER	
MM	MULTIMODE FIBER	
WAP	WIRELESS ACCESS POINT	6
VOIC DATA VIDEO TELECOM OUTLET #	TELECOMMUNICATIONS CABLING IDENTIFIER	

- 1 - 4x4 BACKBOX W/ SINGLE GANG PLASTER RING AND 1 1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING AS INDICATED ON DRAWINGS BY E/C.
- 2 - 2x4 BACKBOX WITH 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING.
- 3 - 4x4 STEEL CITY BACKBOX, MODEL NUMBER 72171-1-1/4 WITH DOUBLE GANG PLASTER RING BY E/C.
- 4 - E/C TO PROVIDE CONDUIT BUSHING ON CONDUIT PRIOR TO T/C INSTALLING CABLING.
- 5 - CABLING SHALL BE SUPPORTED WITH J-HOOKS AT 48" O.C. WHERE NOT IN CONDUIT.
- 6 - 2x4 SURFACE MOUNT BACKBOX LOCATED ABOVE ACCESSIBLE CEILING.

TELECOMMUNICATIONS CABLING SCHEDULE									
MARK	DESCRIPTION	CABLE CONDUCTORS	MANUFACTURER	MODEL NUMBER	PROVIDED BY	INSTALLED BY	NOMINAL O.D.	JACKET COLOR	REMARKS
[1]	12-STRAND INDOOR/OUTDOOR, DIELECTRIC, PLENUM, OS2 SM FIBER CABLE	12 STRANDS	CORNING	012EWP-T4101D20	T/C	T/C	0.45"	BLACK	2
[2]	24-STRAND INDOOR/OUTDOOR, DIELECTRIC, PLENUM, OS2 SM FIBER CABLE	24 STRANDS	CORNING	024EWP-T4101D20	T/C	T/C	0.45"	BLACK	2
[3]	36-STRAND INDOOR/OUTDOOR, DIELECTRIC, PLENUM, OS2 SM FIBER CABLE	36 STRANDS	CORNING	036EWP-T4101D20	T/C	T/C	0.45"	BLACK	2
[4]	48-STRAND INDOOR/OUTDOOR, DIELECTRIC, PLENUM, OS2 SM FIBER CABLE	48 STRANDS	CORNING	048EWP-T4101D20	T/C	T/C	0.45"	BLACK	2
[5]	72-STRAND INDOOR/OUTDOOR, DIELECTRIC, PLENUM, OS2 SM FIBER CABLE	72 STRANDS	CORNING	072EWP-T4101D20	T/C	T/C	0.46"	BLACK	2
[6]	96-STRAND INDOOR/OUTDOOR, DIELECTRIC, RISER, OS2 SM FIBER CABLE	96 STRANDS	CORNING	096EUF-T4101D20	T/C	T/C	0.55"	BLACK	1
[7]	144-STRAND INDOOR/OUTDOOR, DIELECTRIC, RISER, OS2 SM FIBER CABLE	144 STRANDS	CORNING	144EUF-T4101D20	T/C	T/C	0.7"	BLACK	1
[8]	192-STRAND INDOOR/OUTDOOR, DIELECTRIC, RISER, OS2 SM FIBER CABLE	192 STRANDS	CORNING	192EUF-T4101D20	T/C	T/C	0.7"	BLACK	1
[9]	219-STRAND INDOOR/OUTDOOR, DIELECTRIC, RISER, OS2 SM FIBER CABLE	219 STRANDS	CORNING	219EUF-T4101D20	T/C	T/C	0.7"	BLACK	1

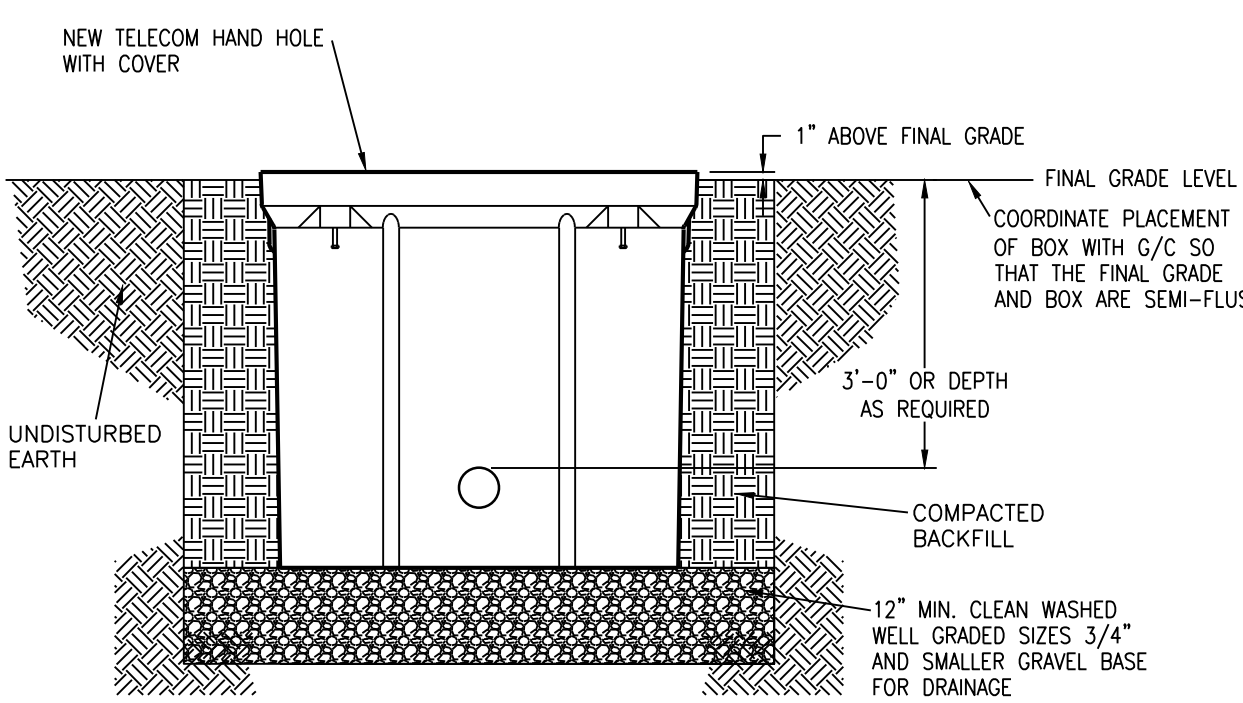
- REMARKS:
- 1 - RISER RATED, CABLING SHALL NOT BE ROUTED THROUGH PLENUM RETURN AIR SPACES.
 - 2 - PLENUM RATED

TELECOMMUNICATIONS HARDWARE SCHEDULE						
MARK	MANUFACTURER	MODEL/PART NUMBER	PROVIDED BY	INSTALLED BY	DESCRIPTION	REMARKS
[1]	CHATSWORTH	11840-736	T/C	T/C	19RU, 24" DEEP, WALL-MOUNTED, CABINET	4
[2]	ORTRONICS	OR-FC04U-C	T/C	T/C	4RU FIBER HOUSING	
[3]	ORTRONICS	OR-FC04U-C	T/C	T/C	4RU FIBER SPLICE CASE	2
[4]	ORTRONICS	OR-FC02U-C	T/C	T/C	2RU FIBER HOUSING	2
[5]	ORTRONICS	LM4-LC12J-1A2UN	T/C	T/C	12-FIBER, DUPLEX SHUTTERED, SINGLEMODE LC FIBER CASSETTE	
[6]	ORTRONICS	OR-0FP-LCD12AC	T/C	T/C	12-FIBER, DUPLEX, SINGLEMODE LC FIBER ADAPTER PLATE	
[7]	COYOTE	8006944	T/C	T/C	6.5"x17" COYOTE DOME FOR LOOSE TUBE (UP TO 72 STRANDS)	1, 3
[8]	COYOTE	8006877	T/C	T/C	6.5"x22" COYOTE DOME FOR LOOSE TUBE (72-216 STRANDS)	1, 3
[9]	ORTRONICS	OR-PHD66U24	T/C	T/C	CAT6 24-PORT PATCH PANEL	

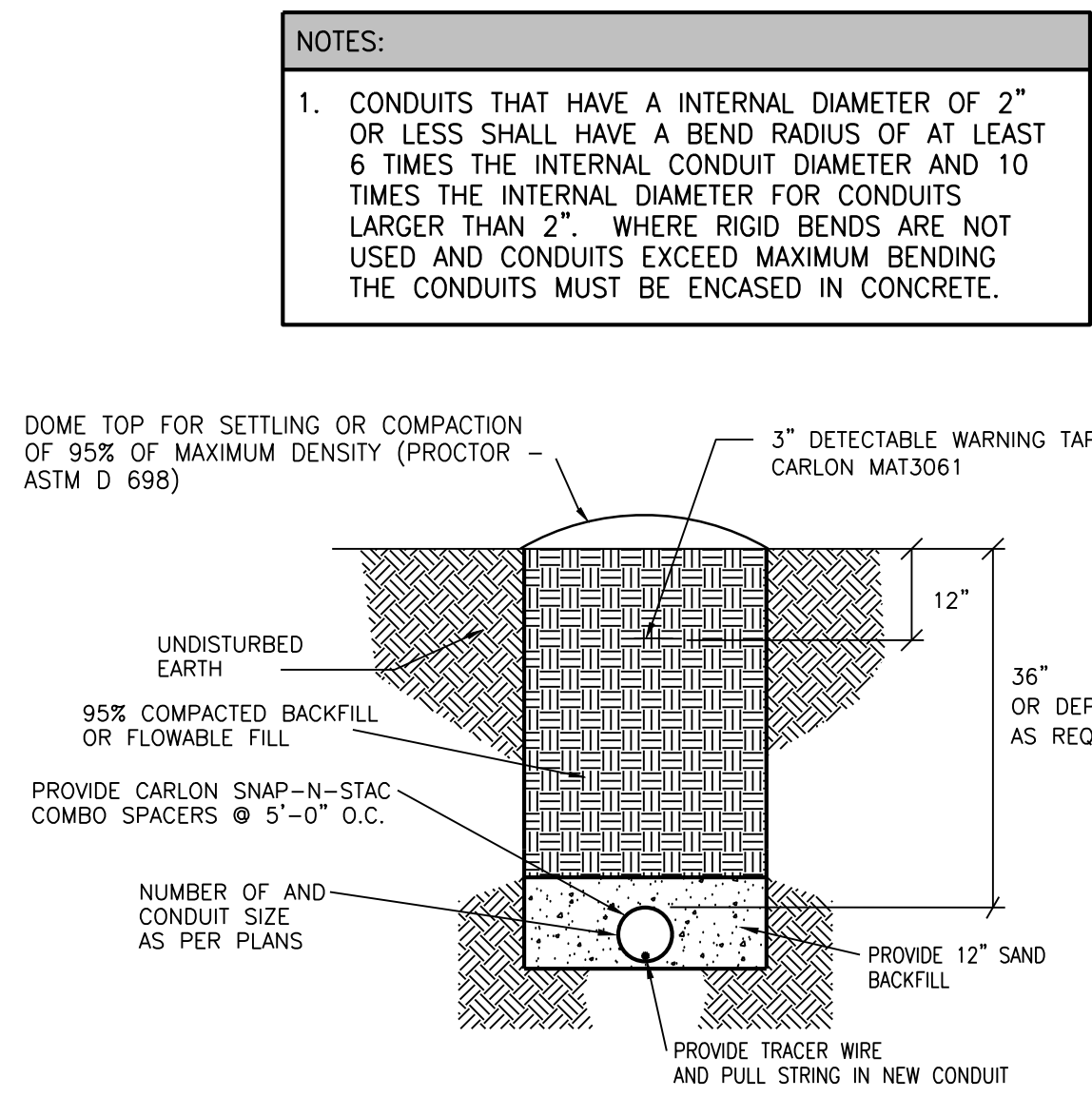
- REMARKS:
- 1 - PROVIDE WITH GROMMETTED PLATE, SPLICE TRAYS, AND SPLICE PROTECTORS AS REQUIRED.
 - 2 - PROVIDE SPLICE TRAYS, HEAT SHRINK, AND FIBER MANAGEMENT RINGS.
 - 3 - OR EQUIVALENT
 - 4 - PROVIDE WITH 2 FANS (CPI MODEL #40975-001).

- NOTES:
1. VERIFY ROOM NUMBERS WITH OWNER PRIOR TO LABELING FACEPLATES.
 3. PROVIDE A #6 GREEN GROUND WIRE FROM BUSBAR TO ALL NEW RACKS. LABEL ACCORDING TO OWNER SPECIFICATIONS. SEE DETAIL.
 4. CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS PRIOR TO INSTALLATION.
 5. PROVIDE LABELING OF ALL NEW RACKS AND LOCATE ON TOP RAIL. SUBMIT SAMPLE TO OWNER FOR APPROVAL PRIOR TO INSTALLATION.
 6. PROVIDE LABELING FOR ALL GROUND WIRE AT EVERY TERMINATION POINT. SUBMIT SAMPLE TO OWNER FOR APPROVAL PRIOR TO INSTALLATION.
 7. T/C TO INSTALL FIRE STOP IN ALL SLEEVES AND CONDUITS. INSTALL PER MANUFACTURERS LISTED UL SYSTEM.
 8. CONDUITS THAT HAVE A INTERNAL DIAMETER OF 2" OR LESS SHALL HAVE A BEND RADIUS OF AT LEAST 6 TIMES THE INTERNAL CONDUIT DIAMETER AND 10 TIMES THE INTERNAL DIAMETER FOR CONDUITS LARGER THAN 2".
 9. MOUNT ALL CABLES WITH A D-RING OR OTHER ACCEPTABLE FASTENER. PROVIDE VELCRO TIES EVENLY SPACED TO PROVIDE A CLEAN INSTALLATION.
 10. CONTRACTOR SHALL MACHINE-PRINT AND LABEL ALL FIBER HOUSINGS WITH TYPE AND QUANTITY OF FIBER CABLES PER ADAPTER PLATE.
 11. CONTRACTOR SHALL MACHINE-PRINT AND LABEL ALL FIBER CABLES WITH TYPE AND QUANTITY OF FIBER CABLES WITHIN 24" OF THE FIBER HOUSING AND WITHIN 24" OF ENTERING THE BUILDING.
 12. COORDINATE AND VERIFY ALL LABELING REQUIREMENTS WITH WU IT.
 13. ROUTE ALL EXPOSED FIBER IN 1 1/4" INNERDUCT.
 14. IN AREAS WHERE FIBER IS BEING ROUTED ABOVE ACCESSIBLE CEILINGS, CONTRACTOR SHALL REMOVE AND REINSTALL CEILING TILE AS REQUIRED. ANY DAMAGED TILE SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
 15. CONTRACTOR SHALL PROVIDE EZ-PATH SERIES 44+ AT ANY FIRE-RATED WALL.

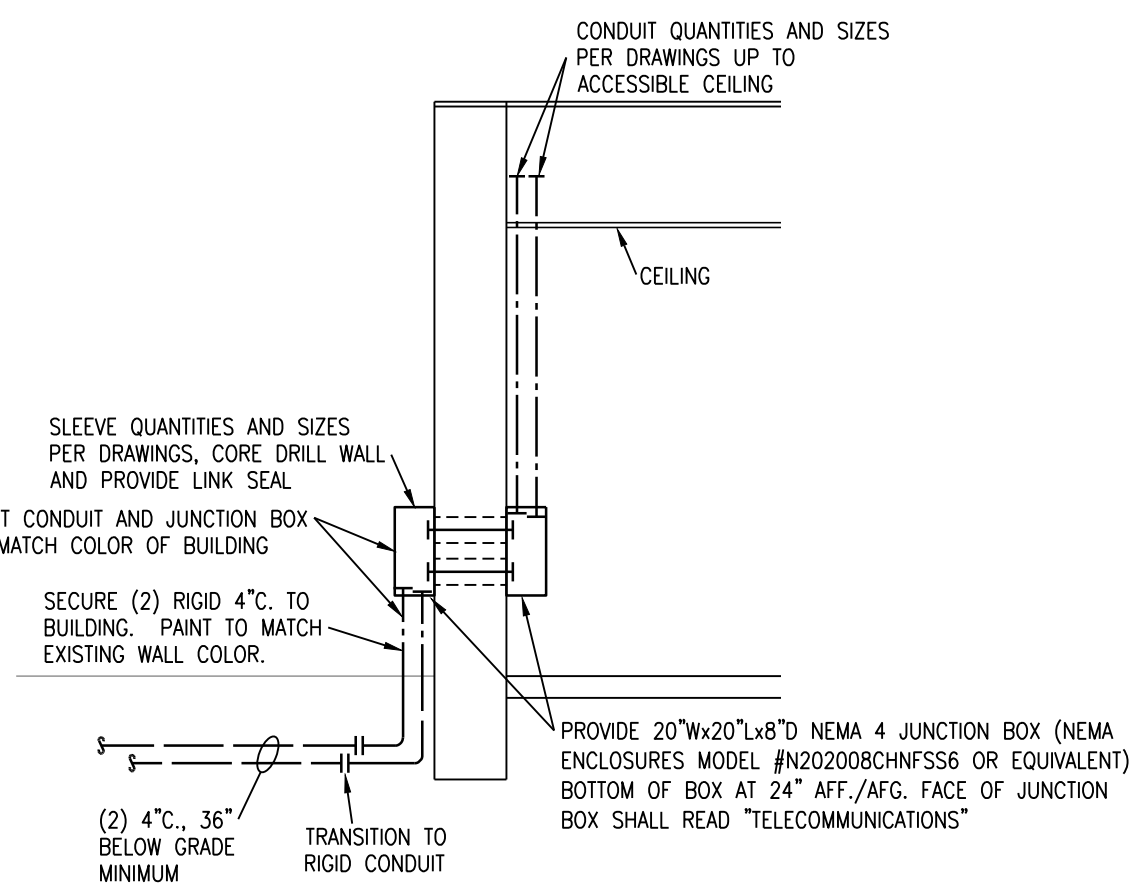
- GENERAL HANDHOLE NOTES:
1. NEW HANDHOLES SHALL CONTAIN (2) 1,500 lbs PULLING EYES LOCATED ON THE SHORT SIDES OF BOX.
 2. NEW HANDHOLES SHALL CONTAIN (2) 36" GALVANIZED STEEL CABLE RACKS AND RACK HOOKS LOCATED ON THE LONG SIDES OF BOX.
 3. NEW HANDHOLES SHALL CONTAIN A 3/4" DIA. 10'-0" DRIVEN GROUND ROD WITH A #6 COPPER WIRE TO A BUS BAR MOUNTED TO BOX.
 4. HANDHOLE COVERS SHALL READ "TELECOMMUNICATIONS".
 5. IN EACH HANDHOLE AND IN EACH BUILDING THE T/C SHALL PROVIDE A 50'-0" SERVICE LOOP FOR TELECOM CABLING.
 6. EACH CABLE SHALL HAVE CABLING TAGS AT EACH HANDHOLE AND AT EACH END. CABLING TAGS SHALL BE PROVIDED BY WU AND INSTALLED BY T/C. VERIFY WITH WU FOR CABLING TAG LABELING.



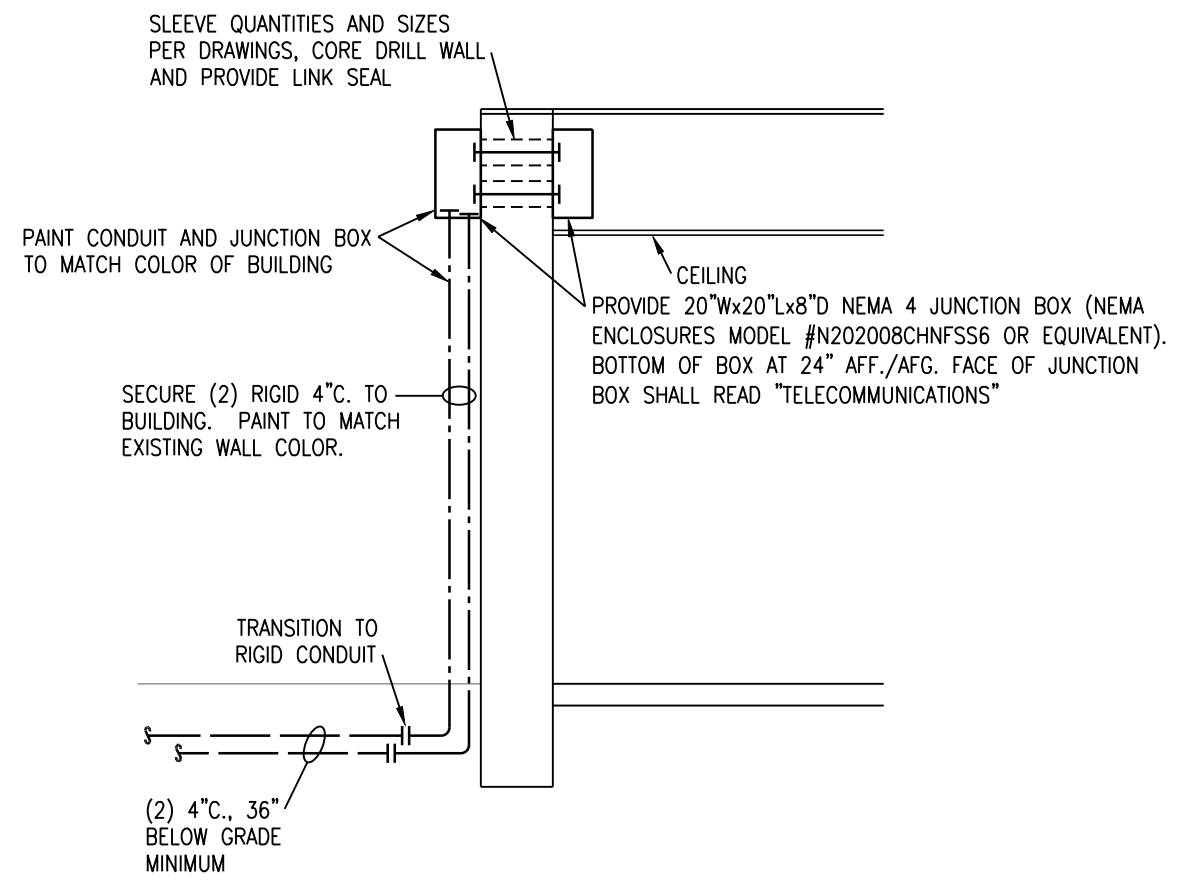
1 HANDHOLE DETAIL
NO SCALE



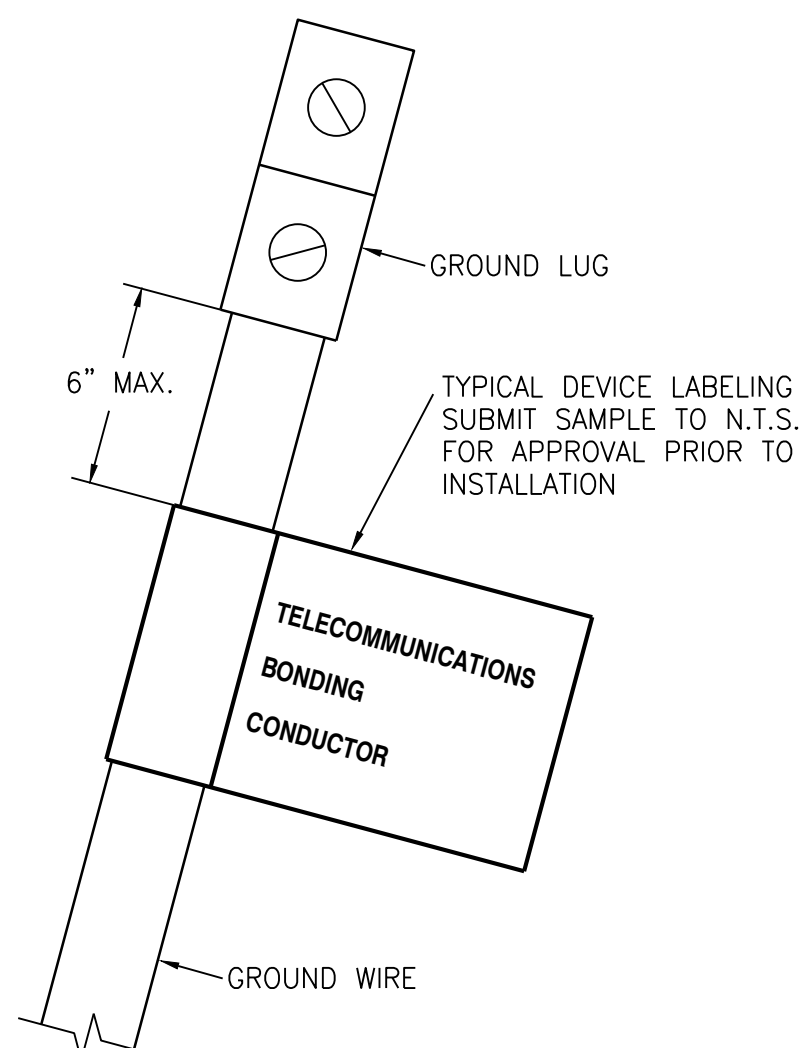
2 UNDERGROUND TELECOM CONDUITS
NO SCALE



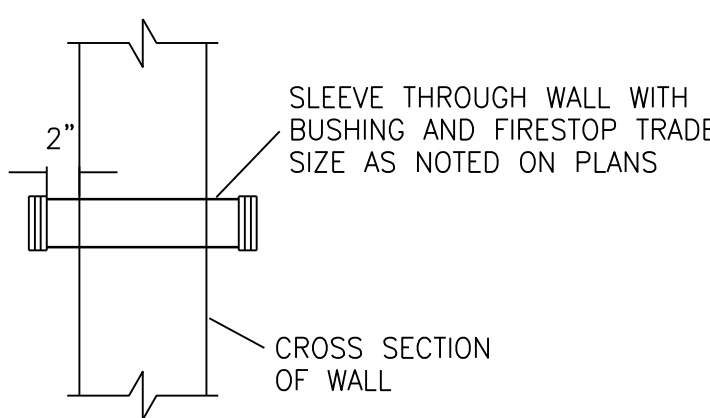
3 ENTRANCE CONDUIT DETAIL
NO SCALE



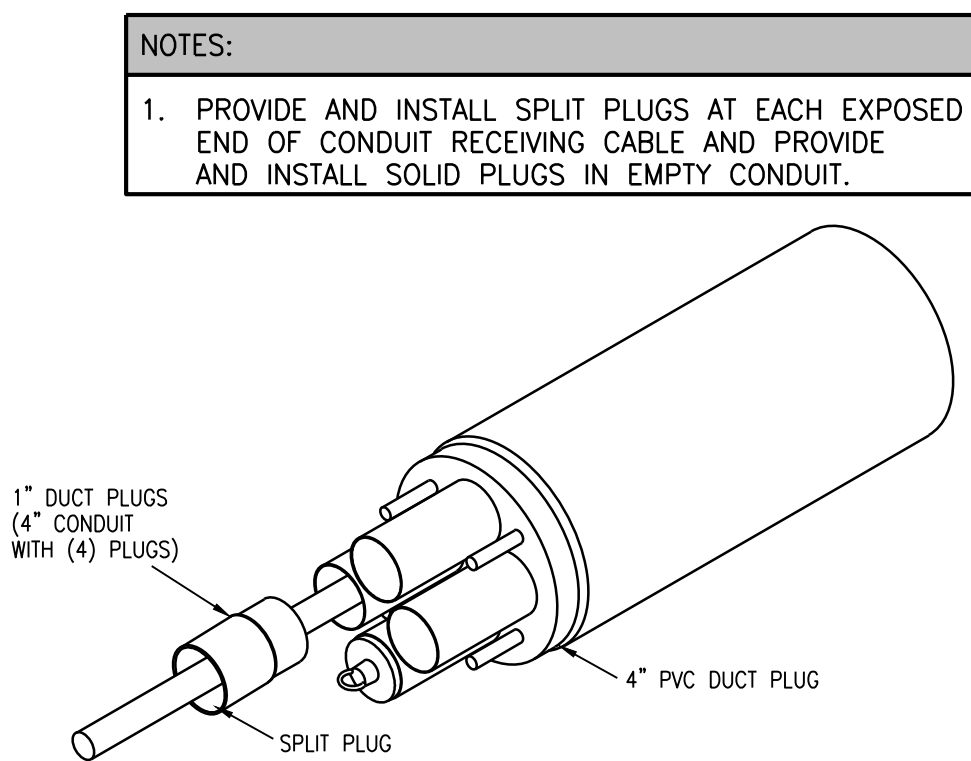
4 ENTRANCE CONDUIT DETAIL
NO SCALE



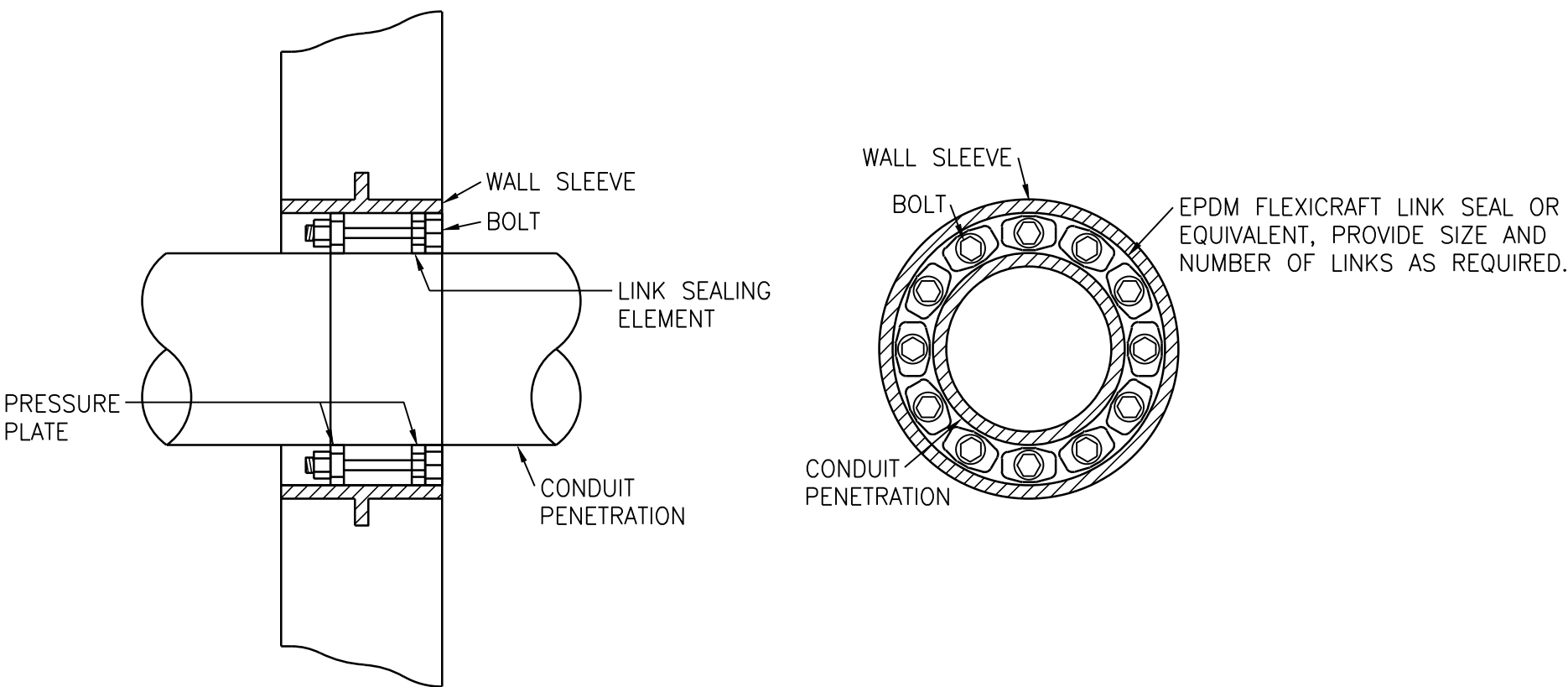
5 GROUND WIRE LABEL
NO SCALE



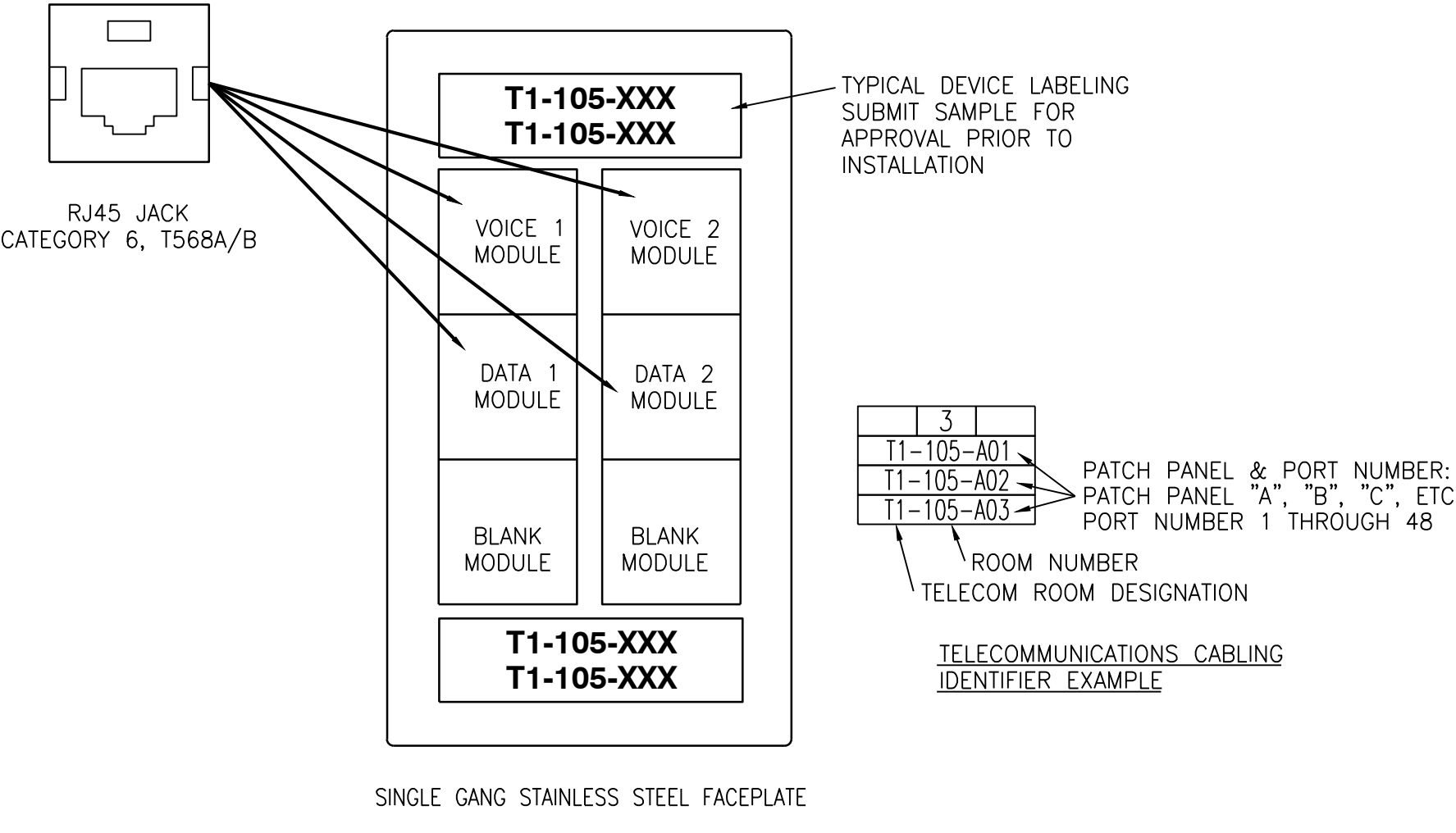
6 SLEEVE/CONDUIT DETAIL
NO SCALE



7 CONDUIT PLUG DETAIL
NO SCALE



8 LINK SEAL DETAIL
NO SCALE



9 SINGLE GANG FACEPLATE DETAIL
NO SCALE

Washburn University
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NO.	DESCRIPTION	DATE

DATE: 4/2/2025

LSA PROJECT NO.: 2306002

SHEET DESCRIPTION: TELECOM DETAILS AND SCHEDULES

SHEET NO.: T301

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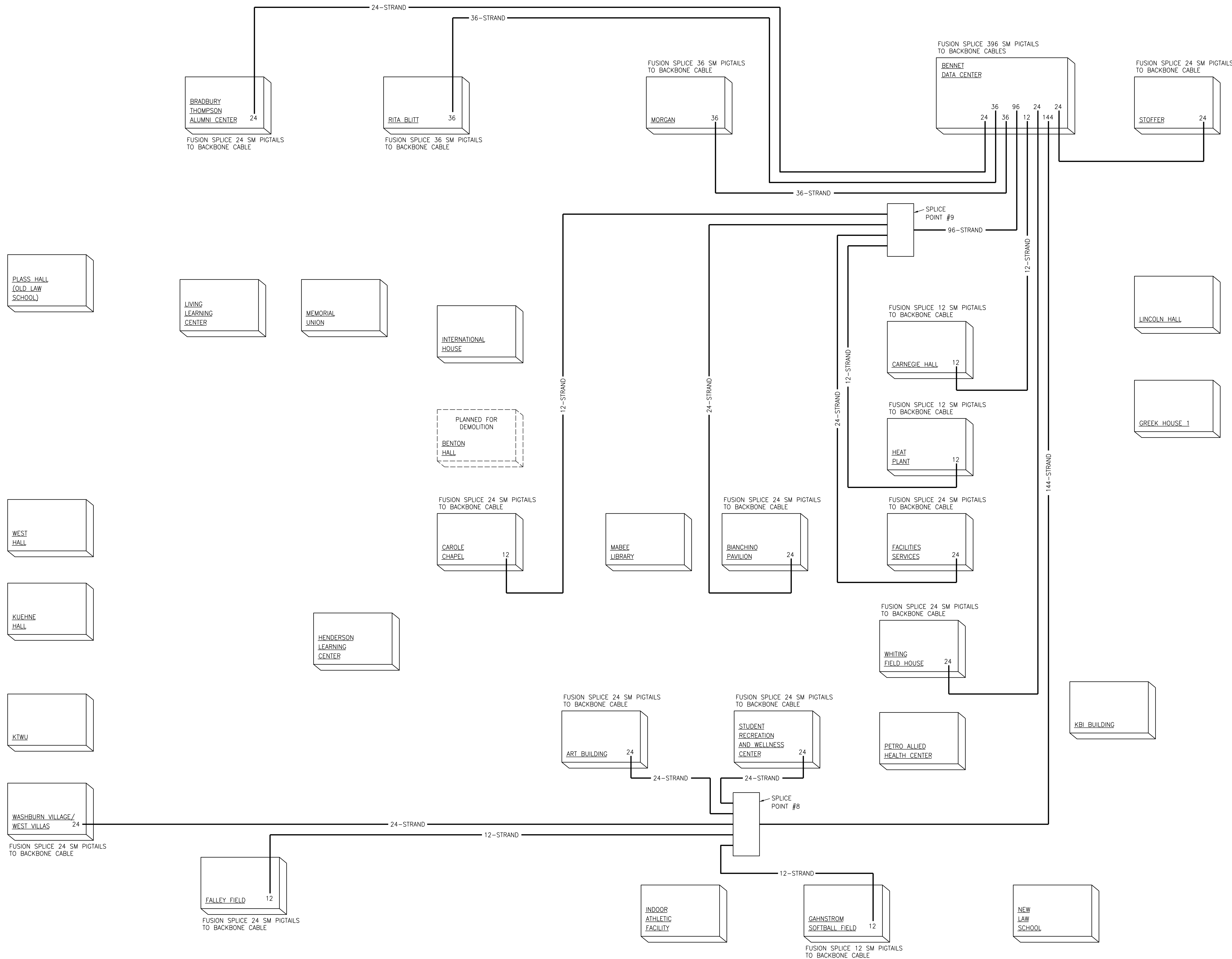
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NO.	DESCRIPTION	DATE

DATE: **4/2/2025**

LSA PROJECT NO.: **2306002**

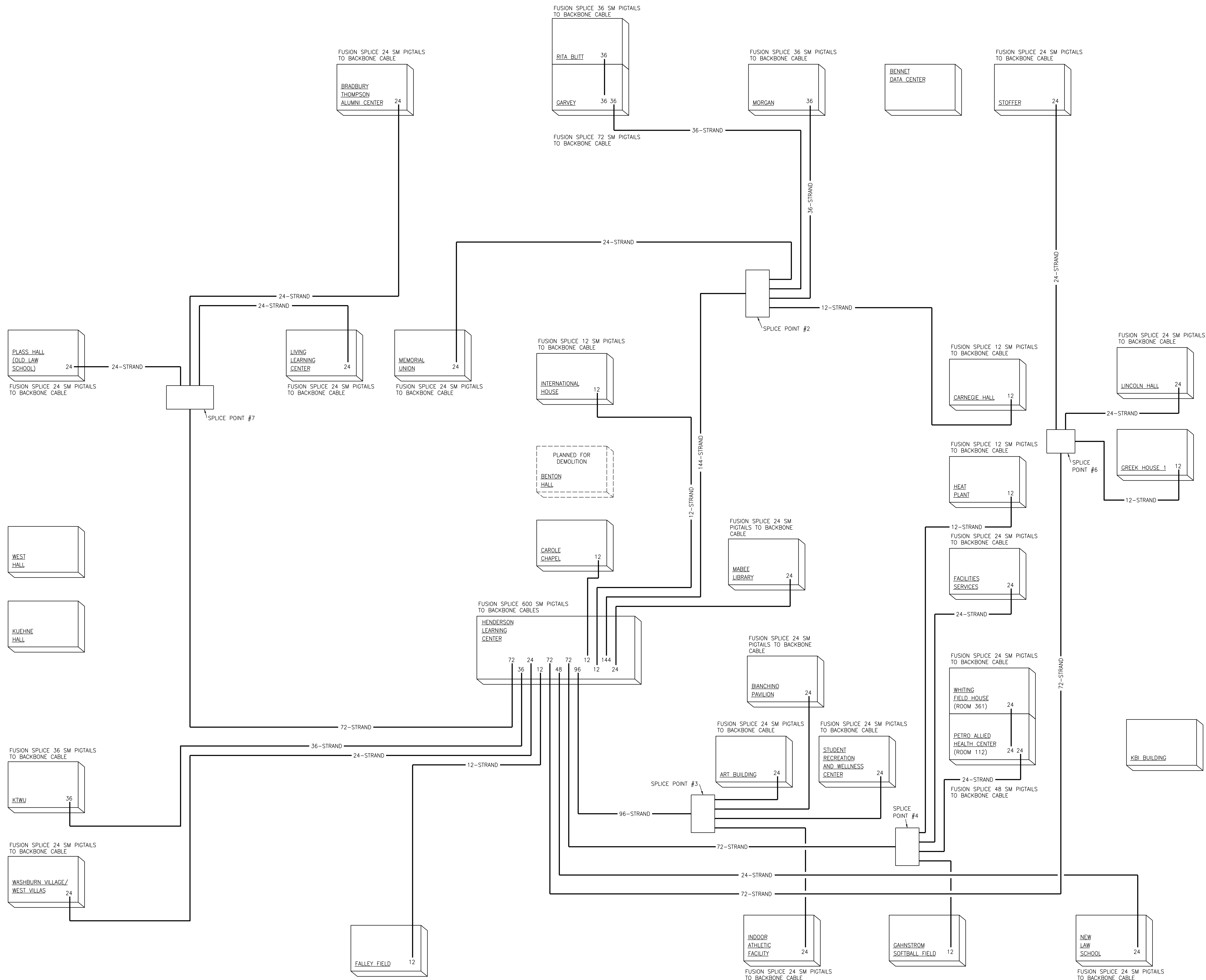
SHEET DESCRIPTION:
**TELECOM DETAILS AND
SCHEDULES**

SHEET NO.: **T302**



1 FIBER BACKBONE CABLE TERMINATION DETAIL (PHASE 2)
NO SCALE

NOTE:
ROUTE ALL EXPOSED FIBER IN
1 1/4" INNERDUCT.



1 FIBER BACKBONE CABLE TERMINATION DETAIL (PHASE 2)
NO SCALE

NOTE:
ROUTE ALL EXPOSED FIBER IN
1 1/4" INNERDUCT.

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Topeka, Kansas 66621

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DATE:
4/2/2025

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2306002

SHEET DESCRIPTION:
**TELECOM DETAILS AND
SCHEDULES**

SHEET NO.:
T303