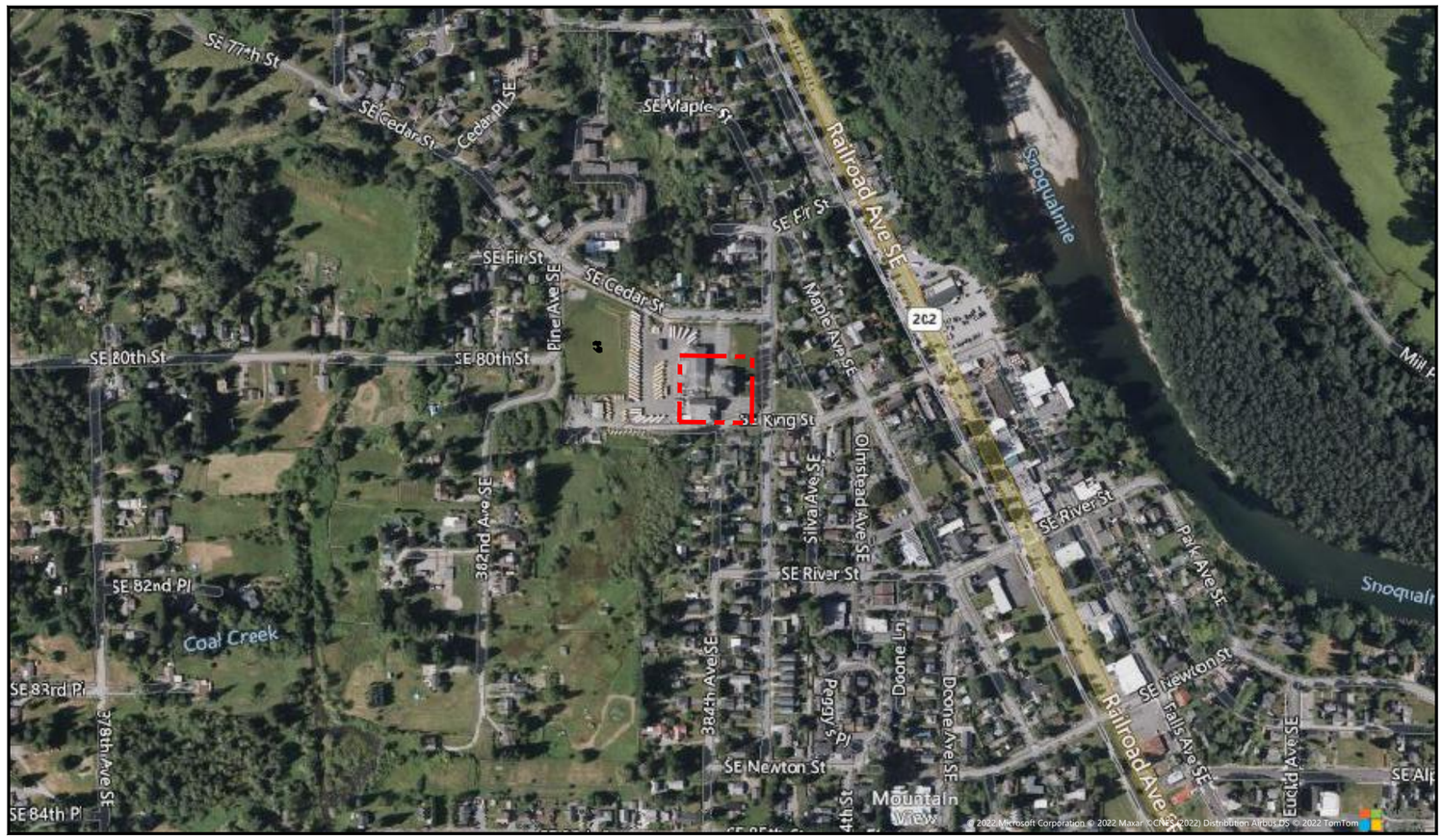
ADDRESS: 8001 SILVA AVE SE, SNOQUALMIE, WA 98065
PROJECT NAME: ADMIN TO MT SI HS DIVERSITY - ADMIN ISP PLANS



SITE LOCATION

BILL OF MATERIALS

ITEMS	QUANTITY	UNITS	FURNISHED BY	PLACED BY	COMMENTS
FIBER STORAGE (24F)	25	FT.	SVSD	CONTRACTOR	
FIBER	380	FT.	SVSD	CONTRACTOR	
2" EMT	110	FT.	CONTRACTOR	CONTRACTOR	

CONTACTS

SNOQUALMIE VALLEY SCHOOL DISTRICT:
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PO BOX 400
SNOQUALMIE, WA 98065
T. 425.831.4216
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JOHN SHAFER
MGC TECHNICAL CONSULTING, INC.
15635 NE 90TH ST, #210 NE
REDMOND, WA 98052
C.206.307.4834
JSHAF@MGCTECHNICAL.COM

SHEET INDEX

1. COVER SHEET / SITE LOCATION
2. LEGEND
3. GENERAL NOTES
4. ADMIN WAREHOUSE - 2ND FL / MEZZANINE PLAN
5. ADMIN WAREHOUSE - 1ST FL PLAN
6. ADMIN BUILDING - 1ST FL PLAN
7. TYPICAL DETAILS / MATERIALS
8. TYPICAL DETAILS / MATERIALS
9. SITE PHOTOS

SCOPE OF WORK:

1. INSTALL (1) 2" CONDUIT PATHWAY FROM SOUTH WALL OF ADMIN WAREHOUSE TO WAREHOUSE IDF ROOM.
2. INSTALL 24F CABLE THROUGH NEW 2" PATHWAY TO WAREHOUSE IDF, THEN THROUGH EXISTING 2" CONDUIT PATHWAY TO ADMIN MDF ROOM.
3. INSTALL NEW FIBER TERMINATION PANEL IN ADMIN MDF ROOM AND TERMINATE (1) 24F CABLE WITH CORE ALIGNMENT FUSION SPLICER AND LC-APC PIGTAILED FIBER CASSETTE.

811 Know what's **below.** **Call** before you dig.

0 250' 500'
SCALE: 1"=500'

NO.	DATE	ENGINEER	DRAFTER	COMMENT
3				AS-BUILT
2	1/12/23	JLS	JLS	REVISION # 1
1	12/5/22	JLS	JLS	ORIGINAL

Snoqualmie Valley School District

MGC TECHNICAL CONSULTING INC

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ENGINEERING FIRM: MGC TECHNICAL CONSULTING INC.
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CONFIDENTIAL/PROPRIETARY

LEGEND

LINETYPES

- AERIAL FIBER – EXISTING
- AERIAL FIBER – ATTACH
- AERIAL FIBER – OVERLASH
- STRAND – EXISTING
- STRAND – PROPOSED
- CONDUIT – EXISTING
- CONDUIT – PROPOSED
- INNERDUCT – EXISTING
- INNERDUCT – PROPOSED
- G — GAS
- W — WATER
- T — TELEPHONE
- F/O — FIBER OPTIC
- E — ELECTRIC
- SEW — SANITARY SEWER (SEW)
- SD — STORM DRAIN
- TV — CABLE TV
- STM — STEAM
- OIL — OIL
- UNK — UNKNOWN UTILITY
- X — FENCE
- R/W — RIGHT OF WAY
- EOP — EDGE OF PAVEMENT

ABBREVIATIONS

ASW	ASPHALT SIDEWALK
BIP	BLACK IRON PIPE
BSP	BLACK STEEL PIPE
CSW	CONCRETE SIDEWALK
ELECT.	ELECTRIC
EOP	EDGE OF PAVEMENT
EOTW	EDGE OF TRAVEL WAY
FOC	FACE OF CURB
F/O	FIBER OPTIC
HDPE	HIGH DENSITY POLYETHYLENE
HH	HANDHOLE
JB	JUNCTION BOX
MH	MANHOLE
MP	MILE POST
O/S	OFFSET
PR	PR
PVC	POLY VINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL CONDUIT
ROW	RIGHT OF WAY
SEW	SANITARY SEWER
SD	STORM DRAIN
STA.	STATION
STM	STEAM
TEL	TELECOM

SYMBOLS

- R — RISER – EXISTING
- R — RISER – PROPOSED
- CATCH BASIN/INLET (RECTANGULAR)
- CATCH BASIN/INLET (ROUND)
- FIRE HYDRANT
- WATER/GAS VALVE
- LIGHT POST
- STREET LIGHT
- TRAFFIC LIGHT ARM
- TREE
- CULVERT
- WING WALL
- BRIDGE
- STREET SIGN
- ADA RAMP
- UTILITY POLE – EXISTING
- UTILITY POLE – PROPOSED
- TRAFFIC RATED VAULT – EXISTING (SIZE AND UTILITY TYPE MAY VARY)
- V — TRAFFIC RATED VAULT – PROPOSED (SIZE MAY VARY)
- HANDHOLE – EXISTING (SIZE AND UTILITY TYPE MAY VARY)
- HH — HANDHOLE – PROPOSED (SIZE MAY VARY)
- PEDESTAL – EXISTING (SIZE AND UTILITY TYPE MAY VARY)
- P — PEDESTAL – PROPOSED (SIZE MAY VARY)
- WET UTILITY MANHOLE – EXISTING (SIZE AND UTILITY TYPE MAY VARY)
- BORE PIT – PROPOSED (SIZE MAY VARY)
- UTILITY POTHOLE
- TD — TRANSMISSION/DISTRIBUTION POLE
- T — TRANSMISSION POLE
- D — DISTRIBUTION POLE
- GROUND/BOND
- O' — AERIAL STORAGE – EXISTING
- O' — AERIAL STORAGE – PROPOSED
- O' — VAULT/BUILDING STORAGE – EXISTING
- O' — VAULT/BUILDING STORAGE – PROPOSED
- POLE ANCHOR/DOWN GUY – EXISTING
- POLE ANCHOR/DOWN GUY – PROPOSED
- DOWN GUY TO EXISTING ANCHOR – PROPOSED
- SPLICE POINT – EXISTING
- SPLICE POINT – PROPOSED
- FDP — TERMINATION – EXISTING
- FDP — TERMINATION – PROPOSED
- PB — PULLBOX – EXISTING
- PB — PULLBOX – PROPOSED
- # — CONSTRUCTION NOTE / RESTORATION CALLOUT
- # — PHOTO–MARKER
- N — NORTH ARROW

INFORMATION TABLES

POLE NUMBER	#
EXISTING UTILITY	0'–0"
PROPOSED ATTACH	0'–0"

UTILITY POLE INFORMATION TABLE (NUMBER OF ATTACHMENTS MAY VARY)

#F	IN:
	OUT:

SEQUENTIAL IN/OUT CALLOUT

#F	IN:
	TAIL:

SEQUENTIAL IN/TAIL CALLOUT

#F	TAIL:
	OUT:

SEQUENTIAL TAIL/OUT CALLOUT

HATCH PATTERNS

- CONCRETE SIDEWALK
- GRASS/VEGETATION
- GRAVEL
- WATER

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1	12/5/22	JLS	JLS	ORIGINAL

Snoqualmin Valley School District

MGC TECHNICAL CONSULTING INC

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SNOQUALMIE, WA 98065
PERMIT NUMBER:
DRAWING NAME: SNOQUALMIE SCHOOL DISTRICT - ADMIN TO MT SI HS DIVERSITY - ISP PLANS - A

CONFIDENTIAL/PROPRIETARY

GENERAL NOTES

GENERAL NOTES / CONSTRUCTION STANDARDS:

1. EACH FIBER CABLE SHALL BE TAGGED AT EACH ENDPOINT (NEAR TERMINATION PANEL), AND IN EACH VAULT / PULLBOX WITH AN OUTDOOR RATED FIBER TAG DENOTING THE FIBER TYPE AND ENDPOINTS OF THE CABLE. (EG. "12CT SMF - MDF TO IDF-300").
2. FIBER IN/OUT SEQUENTIALS SHALL BE RECORDED AT EACH PULLBOX / HANDHOLE , AT EACH TERMINATION LOCATION, AND AT EACH STORAGE LOOP. THIS SHALL BE INCLUDED IN CONTRACTOR PROVIDED AS-BUILT AT PROJECT COMPLETION
3. ALL FIBER SHALL BE TERMINATED USING A CORE ALIGNMENT FUSION SPLICER.
4. ALL FIBER STRANDS SHALL BE BI-DIRECTIONALLY OTDR TESTED AT BOTH 1310 NM &1550 NM PER TIA-526-7. ALL NEW SPLICES & CONNECTORS SHALL BE IN COMPLIANCE WITH THE INSERTION LOSS AND RETURN LOSS VALUES SET FORTH IN ANSI/TIA-568-3.D-1 FOR REFERENCE GRADE CONNECTORS. TESTS SHALL BE PERFORMED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS FOR THE TEST SET BEING UTILIZED. OTDR TRACE RESULTS SHALL BE SUBMITTED TO SVSD IN PDF FORMAT FOR ACCEPTANCE. ANY SPLICES OR TERMINATIONS NOT MEETING SPECIFICATIONS WILL BE REQUIRED TO BE RE-SPLICED AND RE-TESTED UNTIL REQUIRED TEST VALUES ARE ACHIEVED.
5. MULE TAPE SHALL BE LEFT BEHIND IN ALL CONDUIT PATHWAYS THAT ARE PULLED THROUGH.
6. ALL NEW SLEEVES PLACED THROUGH FIRE RATED BARRIERS (WALLS/ FLOORS) SHALL BE FIRE-STOPPED WITH A TESTED/QUALIFIED FIRESTOP SYSTEM.
7. 36" MINIMUM SERVICE LOOP SHALL BE LEFT ON ALL NEW CAT6/CAT6A CABLES AT IDF / MDF. 12" MINIMUM SERVICE LOOP SHALL BE LEFT WITHIN THE OUTLET BOX AT THE STATION END OF EACH CAT6/CAT6A CABLE.
8. ALL NEW COPPER CABLING INSTALLED ABOVE DROP CEILINGS IN OPEN PATHWAY: J-HOOKS MAY NOT BE INSTALLED ON EXISTING GRID CEILING SUPPORT WIRES. EXISTING J-HOOKS THAT ARE ATTACHED TO GRID CEILING SUPPORTS SHALL NOT BE USED FOR NEW CABLE INSTALLATION. NEW J-HOOKS SHALL BE SPACED A MAXIMUM OF 48" APART.
9. ALL NEW CABLING PASSING THROUGH UNDERGROUND CONDUITS MUST BE RATED FOR WET ENVIRONMENTS (OSP).
10. ALL NEW METALLIC PATHWAY (EMT, RMC, ETC) & METALLIC JUNCTION BOXES SHALL BE BONDED TO COMMON BUILDING ELECTRICAL SYSTEM GROUND.

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1	12/5/22	JLS	JLS	ORIGINAL

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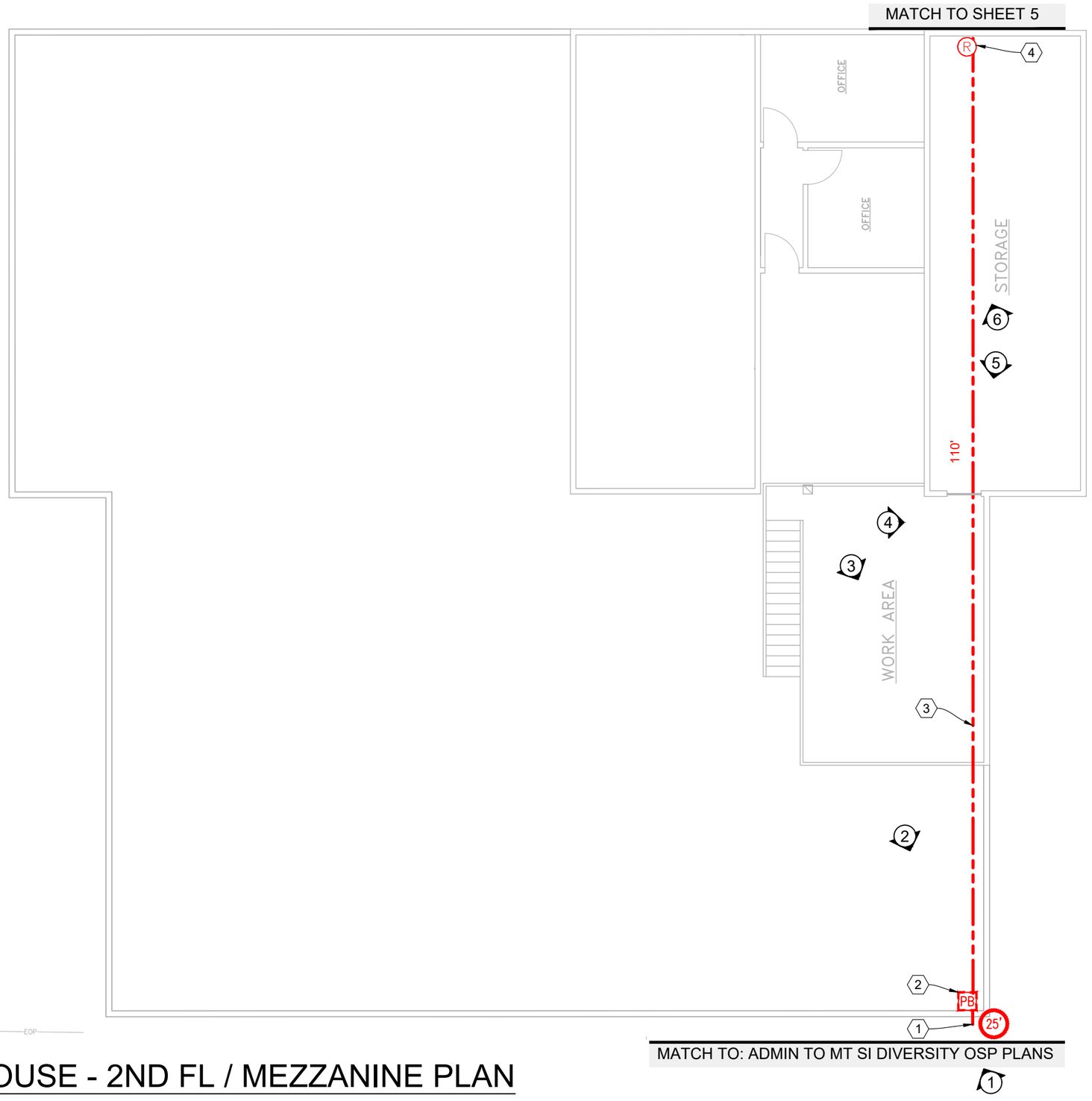
CONFIDENTIAL/PROPRIETARY



MATCH TO: ADMIN TO MT SI DIVERSITY OSP PLANS

1

ADMIN WAREHOUSE - 2ND FL / MEZZANINE PLAN

CONSTRUCTION NOTES

1. INSTALL (1) 2 1/2" TRADE SIZE DIE CAST ALUMINUM SmartLB ON BUILDING EXTERIOR. PLACE (1) 2 1/2" RMC CONDUIT THROUGH EXTERIOR WALL AND WEATHER SEAL PENETRATION. CONNECT TO OSP CONDUIT.
2. SURFACE MOUNT (1) 12"X12"X6" METALLIC NEMA-1 JUNCTION BOX AT 6'0" ℄ AFF. INSTALL (1) 2" CONDUIT THROUGH EXTERIOR WALL AND CONNECT TO NEW EXTERIOR PULL BOX. PULL (1) 24F CABLE THROUGH.
3. INSTALL (1) 2" EMT CONDUIT ALONG WAREHOUSE WALL . PULL (1) 24F CABLE THROUGH.
4. INSTALL (1) 2" EMT THROUGH TO WAREHOUSE IDF ROOM BELOW ON GROUND FLOOR. FIRE SEAL FLOOR PENETRATION WITH APPROVED/LISTED FIRESTOP SYSTEM.

811 Know what's **below.** **Call** before you dig.

0 5' 10'

SCALE: 1"=10'

(#) SYMBOL CORRESPONDS TO PHOTO LOCATIONS AND ORIENTATION. SEE SHEET #8 FOR SITE PHOTOGRAPHS.

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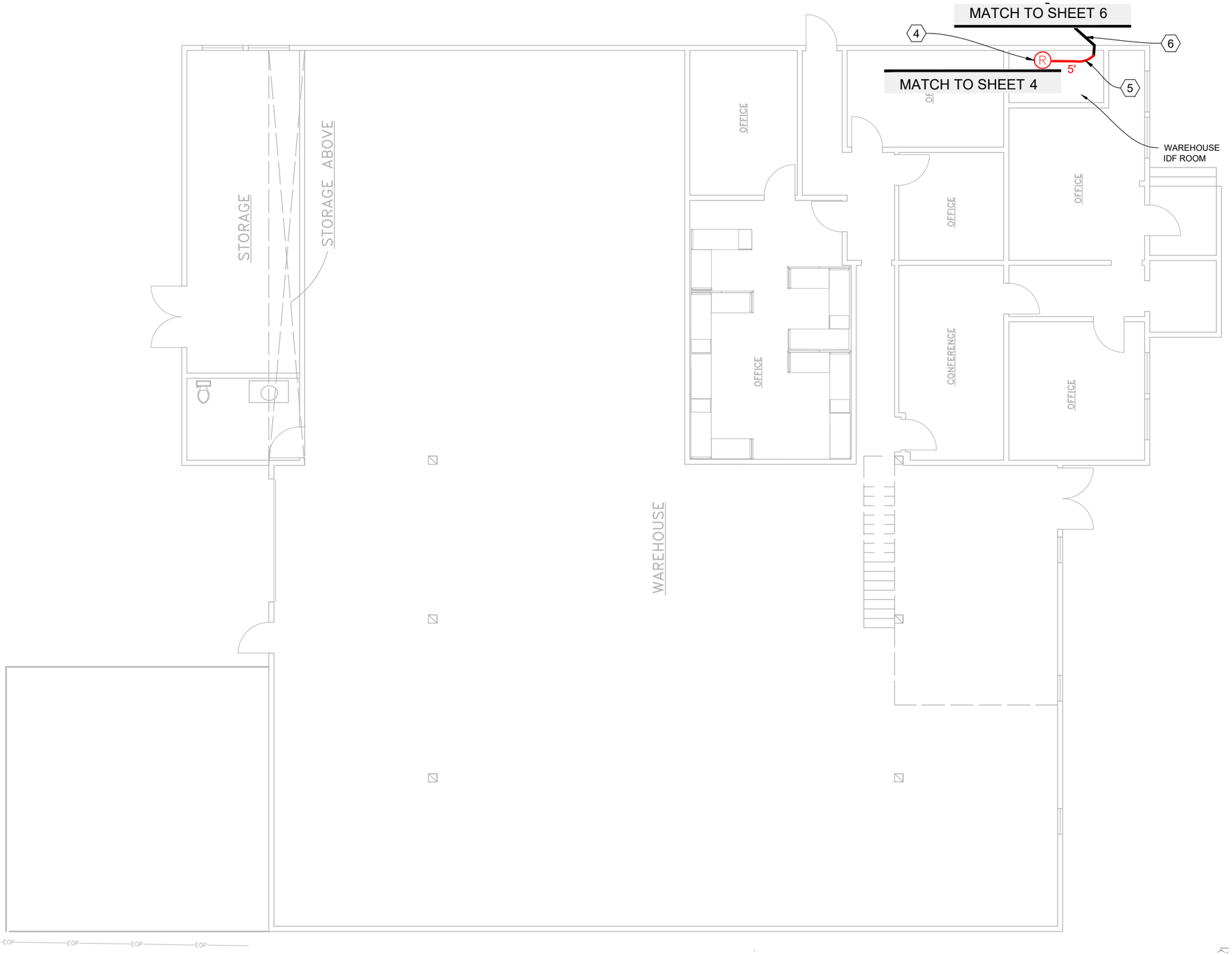

ADMIN WAREHOUSE - 1ST FL PLAN

CONSTRUCTION NOTES

4. INSTALL (1) 2" EMT THROUGH TO WAREHOUSE IDF ROOM BELOW ON GROUND FLOOR. FIRE SEAL FLOOR PENETRATION WITH APPROVED/LISTED FIRESTOP SYSTEM.
5. INSTALL (1) 1" PLENUM RATED INNERDUCT. PULL NEW 24F CABLE THROUGH.
6. EXISTING (2) 2" CONDUITS BETWEEN WAREHOUSE IDF ROOM AND ADMIN MDF. PULL (1) 24F THROUGH OCCUPIED CONDUIT.

811 Know what's **below.** **Call** before you dig.

0 5' 10'

SCALE: 1"=10'

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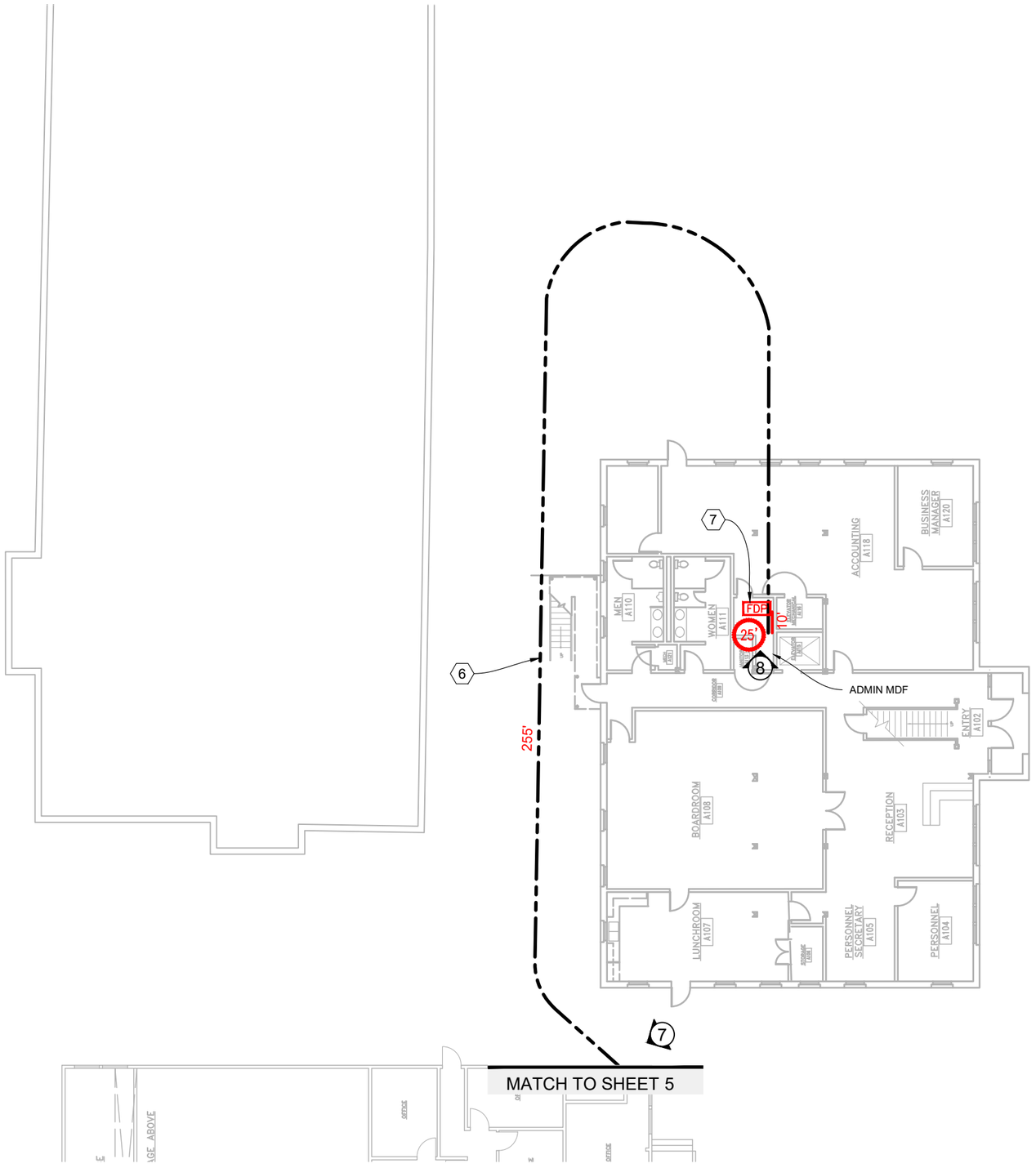
CONSTRUCTION NOTES

6. EXISTING (2) 2" CONDUITS BETWEEN WAREHOUSE IDF ROOM AND ADMIN MDF. PULL (1) 24F THROUGH OCCUPIED CONDUIT.
7. INSTALL (1) CORNING CCH-01U FIBER PANEL IN EXISTING TELECOM RACK. INSTALL (1) 24F CORNING LC-APC CASSETTE (CCH-CS24-B3-P00RE) & TERMINATE (1) 24F CABLE WITH CORE ALIGNMENT FUSION SPLICER.



811 Know what's below. Call before you dig.

0 10' 20'

SCALE: 1"=20'

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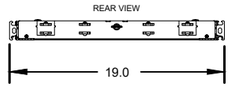
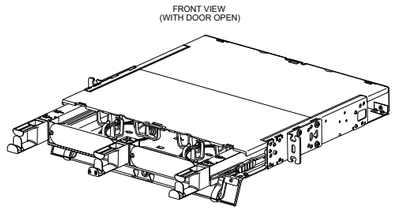
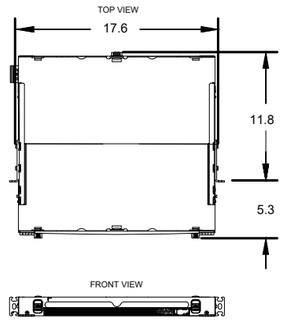
ADMIN MAIN BUILDING - 1ST FL PLAN

TYPICAL DETAILS / MATERIALS







CORNING - CCH-01U - FIBER TERMINATION PANEL

SCALE: NTS

CCH Pigtailed Splice Cassette 24 F, LC APC duplex, Single-mode (OS2), single-fiber (250 µm)

CORNING

Specifications

General Specifications	
Fiber Category	Single-mode (OS2)
Cable Type	250 µm
Mounting Type	CCH Housings, Wall-Mountable
Product Type	Rack-Mountable Hardware
Technology	Fusion Splice
Application	Data Center, Enterprise Networks

Standards	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Approvals and Listings	Meets ANSI/TIA/EIA-568A and 606, Tested in accordance with Telecordia GR-3125, UL1863 - Communication Circuit Accessories

Environmental Conditions	
Temperature Range, Operation	-40 °C to 65 °C (-40 F to 149 F)

Design	
Fiber Count	24
Connector Configuration	LC duplex
Polish	APC
Panel or Module Type	CCH
Splice Protectors Type	Heat Shrink, single fiber
Number of Splice Protectors	24

Design - Adapter	
Adapter Type	LC duplex

CORNING - CCH-CS24-B3-P00RE - FIBER CASSETTE

SCALE: NTS

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TYPICAL DETAILS / MATERIALS

the [old way]

Typical space requirements for pull boxes having conduit enter at opposite ends of the box (per BICSI TDMM 13).

Conduit Trade Size (in)	Box Width (in)	Box Length (in)	Box Depth (in)
1	4	16	3
1-1/4	6	20	3
1-1/2	8	27	4
2	8	36	4
2-1/2	10	42	5
3	12	48	5
3-1/2	12	54	6
4	15	60	8

VS

the [smart way]

The Smart LB conduit body requires considerably less space and less labor than traditional pull boxes.

Conduit Trade Size (in)	SmartLB Width (in)	SmartLB Length (in)	SmartLB Depth (in)
3/4 to 1-1/4	2.5	9.7	4.6
1-1/2 to 2-1/2	4.3	22.5	10.3
3 to 4	6.4	30.0	13.8

SmartLB

Ahead of the Curve!

Unlike traditional LBs that have a sharp 90-degree corner, Smart LB conduit bodies have a built-in radius that helps prevent cables from getting caught or damaged when pulled around corners. With no sharp edges to damage cable, the gentle bend radius meets ANSI/TIA/EIA 568 & NECA/FOA requirements for pulling Optical Fiber Cable. Smart LB are the only conduit bodies that are recommended by the BICSI TDMM 13th for telecommunication cable. Includes a gasketed cover for wet locations.

DIE CAST ALUMINUM
- **Gray powder coat paint finish**
- **Suitable for indoor, outdoor (OSP) & plenum use**
- **For use with EMT, IMC, Rigid or Liquid-Tight conduit and fittings**

PVC
- **Standard gray**
- **Suitable for indoor / outdoor (OSP) use**
- **For use with schedule 40 PVC & schedule 80 PVC**
- **Works with standard PVC cleaner and cement**

[includes]
gasket & cover

Item#	Description	Trade Size	Master Carton	Master Weight
KBLB120	1-1/4" SMART LB BODY - DIE CAST ALUMINUM	1-1/4"	20	42.50 lbs.
KBLB250	2-1/2" SMART LB BODY - DIE CAST ALUMINUM	2-1/2"	4	56.00 lbs.
KBLB400	4" SMART LB BODY - DIE CAST ALUMINUM	4"	2	54.80 lbs.
KBLB121	1-1/4" SMART LB BODY - PVC	1-1/4"	20	25.40 lbs.
KBLB251	2-1/2" SMART LB BODY - PVC	2-1/2"	4	29.92 lbs.
KBLB401	4" SMART LB BODY - PVC	4"	2	28.70 lbs.

Madison Electric Products, Inc.
26801 Fargo Avenue • Bedford Heights, OH 44146 • P: 1-800-631-7775 • F: 1-216-391-7912
© 2018/02076A

SmartLB
CONDUIT BODIES

SMART LB CONDUIT BODY

SCALE: NTS

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CONFIDENTIAL/PROPRIETARY SHEET: 8 OF 9

SITE PHOTOGRAPHS

PHOTO #1: FACING NORTH ON SOUTH SIDE OF ADMIN WAREHOUSE

PHOTO #2: FACING SOUTH IN ADMIN WAREHOUSE

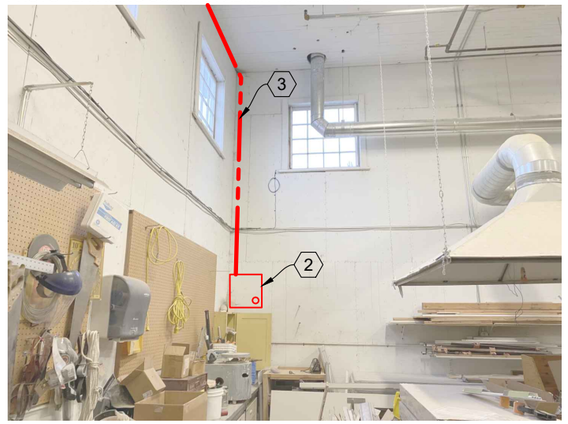


PHOTO #3: FACING SOUTHEAST IN ADMIN WAREHOUSE MEZZANINE

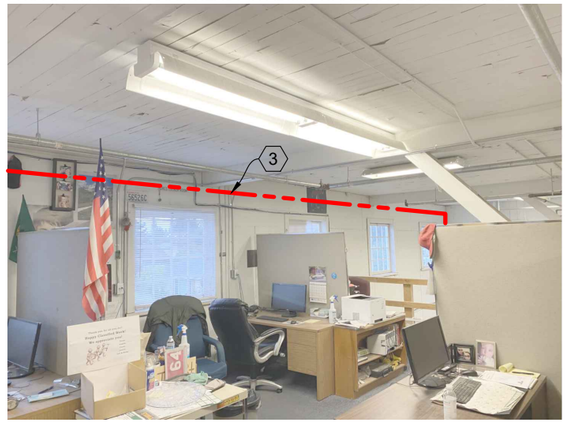


PHOTO #4: FACING EAST IN ADMIN WAREHOUSE MEZZANINE

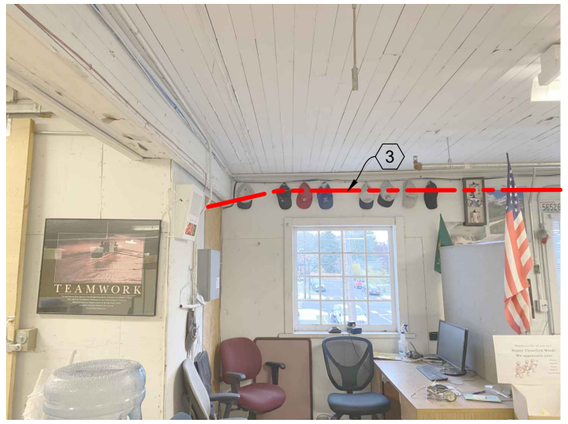


PHOTO #5: FACING SOUTH IN ADMIN WAREHOUSE MEZZ STORAGE RM.

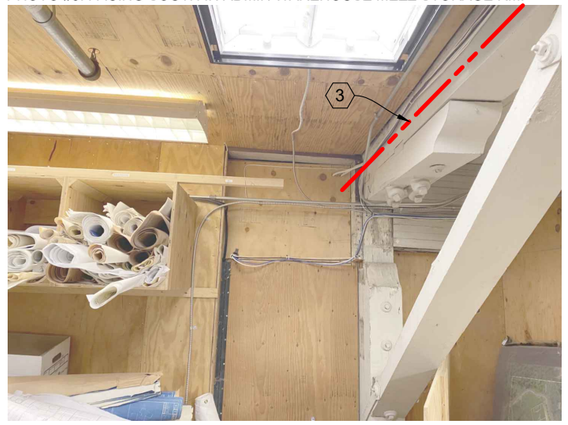


PHOTO #6: FACING NORTH IN ADMIN WAREHOUSE MEZZ STORAGE RM.

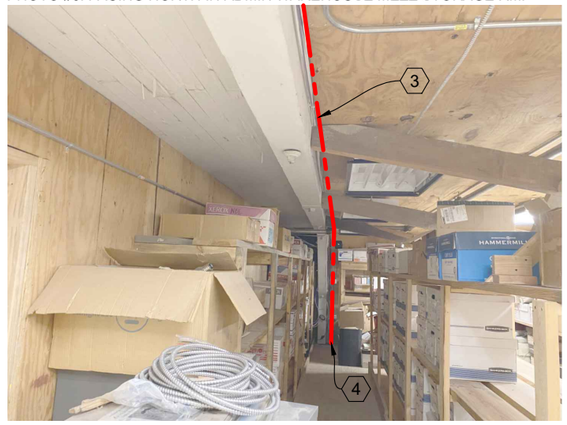
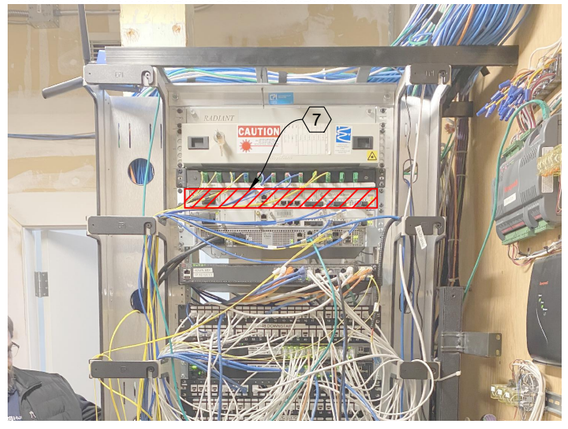


PHOTO #7: FACING SOUTHWEST IN BETWEEN WAREHOUSE AND ADMIN BLDG.

PHOTO #8: NORTH IN ADMIN BUILDING MDF ROOM.



CONSTRUCTION NOTES

1. INSTALL (1) 2 1/2" TRADE SIZE DIE CAST ALUMINUM SMARTLB ON BUILDING EXTERIOR. PLACE (1) 2 1/2" RMC CONDUIT THROUGH EXTERIOR WALL AND WEATHER SEAL PENETRATION. CONNECT TO OSP CONDUIT.
2. SURFACE MOUNT (1) 12"X12"X6" METALLIC NEMA-1 JUNCTION BOX AT 6'0" ℄ AFF. INSTALL (1) 2" CONDUIT THROUGH EXTERIOR WALL AND CONNECT TO NEW EXTERIOR PULL BOX. PULL (1) 24F CABLE THROUGH.
3. INSTALL (1) 2" EMT CONDUIT ALONG WAREHOUSE WALL . PULL (1) 24F CABLE THROUGH.
4. INSTALL (1) 2" EMT THROUGH TO TELECOM ROOM BELOW ON GROUND FLOOR. FIRE SEAL FLOOR PENETRATION WITH APPROVED/LISTED FIRESTOP SYSTEM.
6. EXISTING (2) 2" CONDUITS BETWEEN WAREHOUSE IDF ROOM AND ADMIN MDF. PULL (1) 24F THROUGH OCCUPIED CONDUIT.
7. INSTALL (1) CORNING CCH-01U FIBER PANEL IN EXISTING TELECOM RACK. INSTALL (1) 24F CORNING LC-APC CASSETTE (CCH-CS24-B3-P00RE) & TERMINATE (1) 24F CABLE WITH CORE ALIGNMENT FUSION SPLICER.

811 Know what's **below.** **Call** before you dig.

NO.	DATE	ENGINEER	DRAFTER	COMMENT
3				AS–BUILT
2	1/12/23	JLS	JLS	REVISION # 1
1	12/5/22	JLS	JLS	ORIGINAL

Snoqualmin Valley School District

MGC TECHNICAL CONSULTING INC

SNOQUALMIE SCHOOL DISTRICT ENGINEER: RYAN VANNATTA
ENGINEERING FIRM: MGC TECHNICAL CONSULTING INC.
PROJECT NAME: ADMIN TO MT SI HS DIVERSITY - ADMIN ISP
LOCATION: 8001 SILVA AVE SE
SNOQUALMIE, WA 98065
PERMIT NUMBER:
DRAWING NAME: SNOQUALMIE SCHOOL DISTRICT - ADMIN TO MT SI HS DIVERSITY - ISP PLANS - A