ADDRESS: 8651 MEADOWBROOK WAY SE, SNOQUALMIE, WA 98065 PROJECT NAME: ADMIN TO MT SI HS DIVERSITY - MT SI ISP PLANS



SITE LOCATION

BILL OF MATERIALS

ITEMS	QUANTITY	UNITS	FURNISHED BY	PLACED BY	COMMENTS
FIBER STORAGE (24F)	75	FT.	SVSD	CONTRACTOR	
FIBER	629	FT.	SVSD	CONTRACTOR	
2" 3-CELL MAXCELL INNERDUCT	190	FT.	CONTRACTOR	CONTRACTOR	
1" INNERDUCT	435	FT.	CONTRACTOR	CONTRACTOR	

CONTACTS

SNOQUALMIE VALLEY SCHOOL DISTRICT: RYAN VANNATTA PO BOX 400 SNOQUALMIE, WA 98065 T. 425.831.4216 VANNATTAR@SVSD410.ORG

JOHN SHAFER MGC TECHNICAL CONSULTING, INC. 15635 NE 90TH ST, #210 NE REDMOND, WA 98052 C.206.307.4834 JSHAF@MGCTECHNICAL.COM

SHEET INDEX

- COVER SHEET / SITE LOCATION LEGEND GENERAL NOTES SITE PLAN ENLARGED MDF PLAN TYPICAL DETAILS / MATERIALS SITE PHOTOS

SCOPE OF WORK:

- INSTALL 3-CELL MAXCELL EDGE INNERDUCT THROUGH EXISTING 2" CONDUIT FROM COMM VAULT IN PARKING LOT TO IDF 7149. INSTALL (1) 1" INNERDUCT THROUGH EXISTING 4" CONDUIT FROM IDF 7149 TO MDF ROOM. INSTALL (1) 24F CABLE FROM COMM VAULT IN PARKING LOT TO FIBER TERMINATION CABINET IN MDF ROOM. INSTALL CORNING CCH-01U PANEL IN FIBER TERMINATION CABINET & INSTALL 24 PORT LC/APC CORNING CASSETTE. TERMINATE (1) 24F CABLE.

	3				AS-BUILT
	2	4/7/23	JLS	JLS	REVISION # 1
k	1	12/19/22	JLS	JLS	ORIGINAL
	NO.	DATE	ENGINEER	DRAFTER	COMMENT
		_			





SNOQUALMIE SCHOOL DISTRICT ENGINEER: RYAN VANNATTA ENGINEERING FIRM: MGC TECHNICAL CONSULTING INC.

PROJECT NAME: ADMIN TO MT SI HS DIVERSITY - MT SI ISP LOCATION: 8651 MEADOWBROOK WAY SE SNOQUALMIE, WA 98065



Call before you dig.

LEGEND

LINETYPES	AERIAL FIBER — EXISTING AERIAL FIBER — ATTACH AERIAL FIBER — OVERLASI
_:=:=:=:	STRAND — EXISTING STRAND — PROPOSED
	CONDUIT - EXISTING CONDUIT - PROPOSED
=::=::=::	INNERDUCT - EXISTING INNERDUCT - PROPOSED
G	—— GAS
W	WATER
т_	TELEPHONE
F/0 F/0	
E	ELECTRIC
SEW	SANITARY SEWER (SEW)
SD	
TV	
STM	
OIL	
UNK	
×××	
EOP	
ABBREVIATIONS	

	EUP EDUC OF TAVEMENT
ABBREV	IATIONS
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/0	FIBER OPTIC
HDPE	HIGH DENSITY POLYETHYLENE
HH	HANDHOLE
JB	JUNCTION BOX
MH	MANHOLE
MP	MILE POST
0/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



RISER - EXISTING



RISER - PROPOSED



CATCH BASIN/INLET (RECTANGULAR) CATCH BASIN/INLET (ROUND)



FIRE HYDRANT

LIGHT POST



WATER/GAS VALVE



STREET LIGHT





TREE



CULVERT



BRIDGE



STREET SIGN

WING WALL



ADA RAMP



UTILITY POLE - EXISTING



UTILITY POLE - PROPOSED



TRAFFIC RATED VAULT - EXISTING (SIZE AND UTILITY TYPE MAY VARY)



TRAFFIC RATED VAULT - PROPOSED (SIZE MAY VARY)



HANDHOLE - EXISTING (SIZE AND UTILITY TYPE MAY VARY)



HANDHOLE - PROPOSED (SIZE MAY VARY)



PEDESTAL - EXISTING (SIZE AND UTILITY TYPE MAY VARY)



PEDESTAL - PROPOSED (SIZE MAY VARY)



WET UTILITY MANHOLE - EXISTING (SIZE AND UTILITY TYPE MAY VARY)



BORE PIT - PROPOSED (SIZE MAY VARY)



UTILITY POTHOLE



TRANSMISSION/DISTRIBUTION POLE



TRANSMISSION POLE DISTRIBUTION POLE



GROUND/BOND



AERIAL STORAGE - EXISTING



AERIAL STORAGE - PROPOSED



VAULT/BUILDING STORAGE - EXISTING



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



TERMINATION - EXISTING



TERMINATION - PROPOSED



PULLBOX - EXISTING



PULLBOX - PROPOSED



CONSTRUCTION NOTE / RESTORATION CALLOUT



PHOTO-MARKER

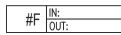


NORTH ARROW

INFORMATION TABLES

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

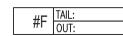
UTILITY POLE INFORMATION TABLE (NUMBER OF ATTACHMENTS MAY VARY)



SEQUENTIAL IN/OUT CALLOUT



SEQUENTIAL IN/TAIL CALLOUT

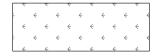


SEQUENTIAL TAIL/OUT CALLOUT

HATCH PATTERNS



CONCRETE SIDEWALK



GRASS/VEGETATION



GRAVEL



WATER



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SNOQUALMIE SCHOOL DISTRICT ENGINEER: RYAN VANNATTA ENGINEERING FIRM: MGC TECHNICAL CONSULTING INC. PROJECT NAME: ADMIN TO MT SI HS DIVERSITY - MT SI ISP

LOCATION: 8651 MEADOWBROOK WAY SE SNOQUALMIE, WA 98065

PERMIT NUMBER:

DRAWING NAME: SNOQUALMIE SCHOOL DISTRICT - ADMIN TO MT SI HS DIVERSITY - ISP PLANS

CONFIDENTIAL/PROPRIETARY SHEET: 2 OF 7

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.
- 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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Snoqualmin Valley School District



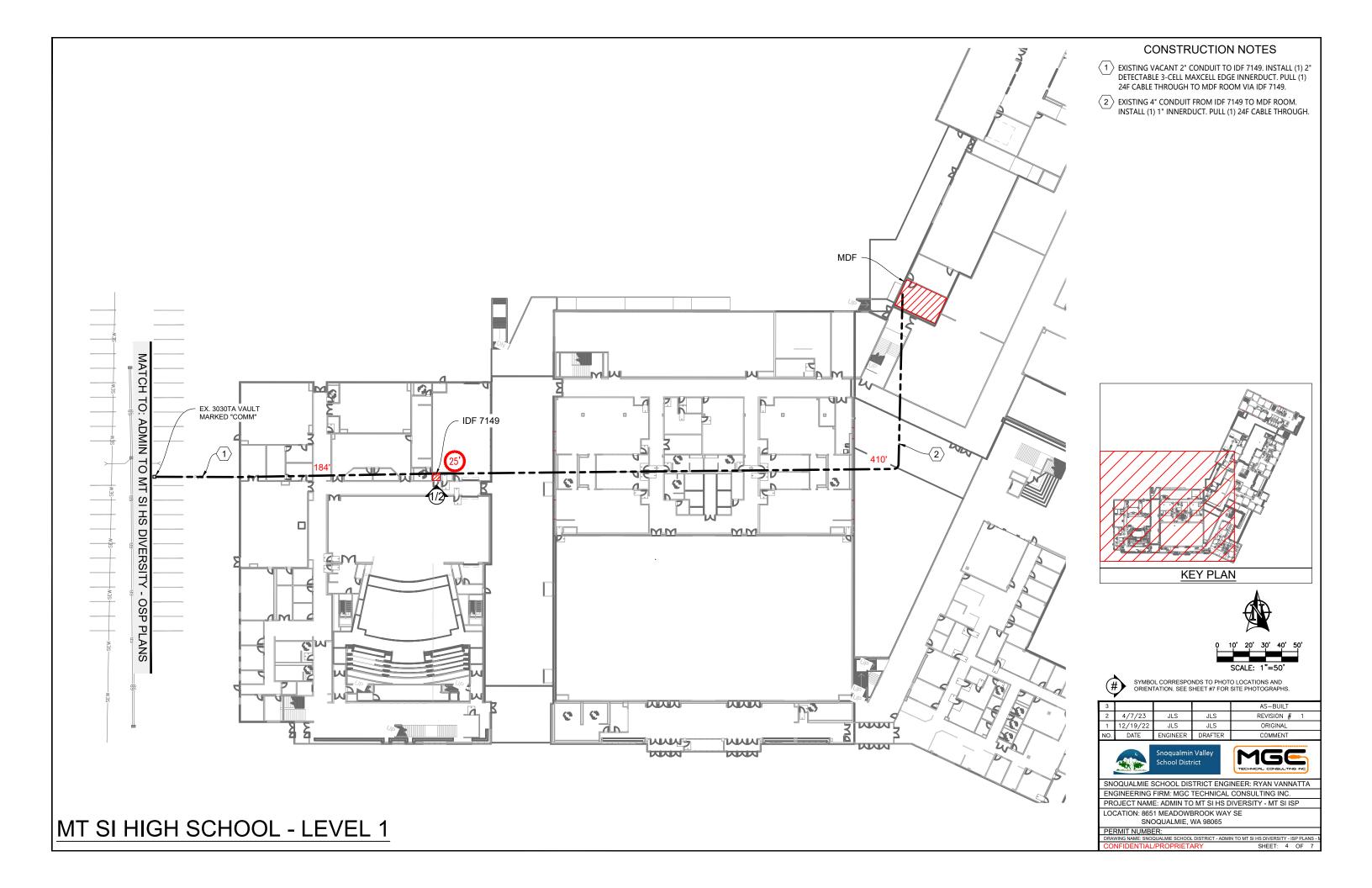
SNOQUALMIE SCHOOL DISTRICT ENGINEER: RYAN VANNATTA ENGINEERING FIRM: MGC TECHNICAL CONSULTING INC.

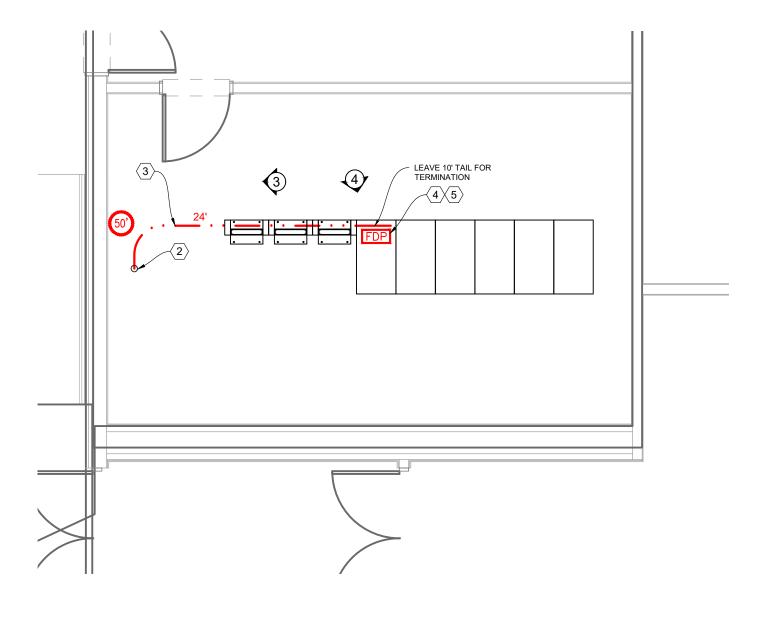
PROJECT NAME: ADMIN TO MT SI HS DIVERSITY - MT SI ISP LOCATION: 8651 MEADOWBROOK WAY SE

SNOQUALMIE WA 98065

PERMIT NUMBER:

DRAWING NAME: SNOQUALMIE SCHOOL DISTRICT - ADMIN TO MT SI HS DIVERSITY - ISP PLANS





CONSTRUCTION NOTES

- EXISTING VACANT 2" CONDUIT TO IDF 7149. INSTALL (1) 2"
 DETECTABLE 3-CELL MAXCELL EDGE INNERDUCT. PULL (1)
 24F CABLE THROUGH TO MDF ROOM VIA IDF 7149.
- $\fbox{2}$ Existing 4" conduit from IDF 7149 to MDF Room. INSTALL (1) 1" INNERDUCT. PULL (1) 24F CABLE THROUGH.
- (3) INSTALL (1) 1* INNERDUCT FROM CONDUIT ENTRY TO FIBER TERMINATION CABINET ALONG EXISTING CABLE TRAY. PULL (1) 24F CABLE THROUGH.
- 4 COORDINATE WITH SVSD TO SHIFT (2) EXISTING LEVITON 1U FIBER TERMINATION PANELS (FIBER TO IDFS) TO OCCUPY RU 36 & 37.
- (5) INSTALL (1) CORNING CCH-01U FIBER DISTRIBUTION PANEL IN CABINET AT RU 29. INSTALL (1) 24F CORNING LC-APC CASSETTE (CCH-CS24-B3-P00RE) IN SLOT "A" & TERMINATE (1) 24F CABLE WITH CORE ALIGNMENT FUSION SPLICER.





SYMBOL CORRESPONDS TO PHOTO LOCATIONS AND ORIENTATION. SEE SHEET #7 FOR SITE PHOTOGRAPHS.

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Snoqualmin Valley School District



SNOQUALMIE SCHOOL DISTRICT ENGINEER: RYAN VANNATTA ENGINEERING FIRM: MGC TECHNICAL CONSULTING INC.

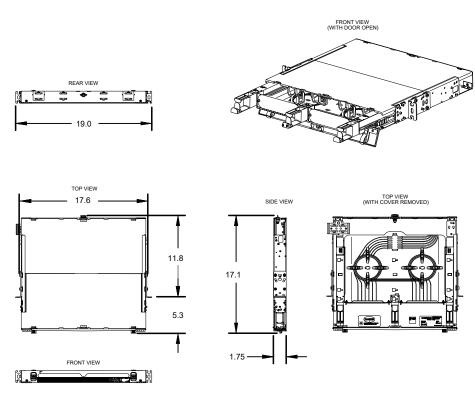
PROJECT NAME: ADMIN TO MT SI HS DIVERSITY - MT SI ISP LOCATION: 8651 MEADOWBROOK WAY SE

SNOQUALMIE, WA 98065

PERMIT NUMBER:

DRAWING NAME: SNOQUALMIE SCHOOL DISTRICT - ADMIN TO MT SI HS DIVERSITY - ISP PLANS - CONFIDENTIAL/PROPRIETARY SHEET: 5 OF 7

TYPICAL DETAILS / MATERIALS



CORNING - CCH-01U - FIBER TERMINATION PANEL

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



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	ссн	
Splice Protectors Type	Heat Shrink, single fiber	
Number of Splice Protectors	24	

Design - Adapter				
Adapter Type	LC duplex			

Product Specification CCH-CS24-B3-P00RE_NAFTA_AEN

Page 2 | Revision Date 2022-12-0

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

SCALE: NTS

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SNOQUALMIE, WA 98065

NFIDENTIAL/PROPRIETARY

SHEET: 6 OF 7

SITE PHOTOGRAPHS

PHOTO #1: IDF 7149 FACING NORTH



PHOTO #2: IDF 7149 FACING NORTH



PHOTO #3: FACING SOUTHEAST IN ADMIN WAREHOUSE MEZZANINE

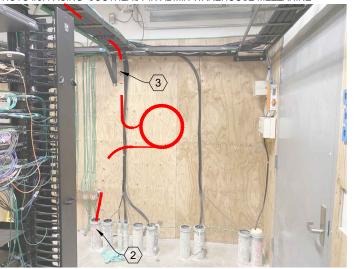


PHOTO #4: MDF ROOM FACING SOUTH



CONSTRUCTION NOTES

- (1) EXISTING VACANT 2" CONDUIT TO IDF 7149. INSTALL (1) 2" DETECTABLE 3-CELL MAXCELL EDGE INNERDUCT. PULL (1) 24F CABLE THROUGH TO MDF ROOM VIA IDF 7149.
- (2) EXISTING 4" CONDUIT FROM IDF 7149 TO MDF ROOM. INSTALL (1) 1" INNERDUCT. PULL (1) 24F CABLE THROUGH.
- (3) INSTALL (1) 1" INNERDUCT FROM CONDUIT ENTRY TO FIBER TERMINATION CABINET ALONG EXISTING CABLE TRAY. PULL (1) 24F CABLE THROUGH.
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School District



SNOQUALMIE SCHOOL DISTRICT ENGINEER: RYAN VANNATTA ENGINEERING FIRM: MGC TECHNICAL CONSULTING INC.

PROJECT NAME: ADMIN TO MT SI HS DIVERSITY - MT SI ISP LOCATION: 8651 MEADOWBROOK WAY SE SNOQUALMIE, WA 98065

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