
ADDENDUM NO. 1

Client: West Ottawa Public Schools
Project: Fiber WAN Additions and Replacements
Date: December 5, 2019

Notice to Bidders:

This Addendum is issued to plan holders pursuant to the Instructions to Bidders. This Addendum serves to clarify, revise and supersede information in the Project Manual, Drawings, and previously issued Addenda. Portions of the Addendum affecting the Contract Documents will be incorporated into the Contract by enumeration of the Addendum in the Owner/Contractor Agreement.

Attachments:

This Addendum includes the following attached Drawing Sheets:

1. Sheet TS101 - Reissued
2. Sheet T101 - Reissued

Revisions to Drawing Sheets - Project Number WOPS1802-0000

1. Sheet TS101
 - a. Added general note 1 to sheet.
2. Sheet T101
 - a. Added general note 1 to sheet. This applies to all sites.

RFI Questions/Answers:

Response to the following questions about Circuits:

All bidders interested in providing circuit-based solutions should visit the USAC website (usac.org) to find the RFP issued by West Ottawa Public Schools for circuit-based solutions. This RFP and addenda are for the sole purpose of constructing new and replacement OSP fiber owned and operated by West Ottawa Public Schools. Only qualified bids for the construction of OSP fiber owned and operated by West Ottawa Public Schools will be considered a valid response to the base bid for this project.

1. All Depending on requirements – all Ethernet solutions – there are 3 standard options we support – happy to discuss – and totally depends on your network requirements. The 3rd may be more valuable if you have a backup site on the network (for efficient multi-point transport). – but lacks traffic separation accomplished with 1 and 2 – if needed.
 - a. We can do independent point to points (charges for each port/separated by physical ports at each site) – 2 per EPL – P2P circuit)
 - b. We can do point to multipoint – (hub spoke with all spokes to a single hub = larger port at hub – (charge more competitive since single port – VLAN tags match identify from your equipment which spoke traffic is routed) (EVPL – MEF terminology)
 - c. Or fully meshed where all sites have Layer II connectivity to each other (similar pricing to above but greater flexibility – typically you would route L3 private addressing over private network (same L2 on all topologies)) (EPLAN)
2. Would you like the bid to be individual private line circuits from Harbor Lights Middle School, 1024 136th Avenue, Holland MI 49424 to the individual locations, or are you looking for more of a hub and spoke sort of design?
3. You state that the service is for the upcoming funding year starting 7/1/20, through 6/30/2021.
 - a. Will you consider bids that include a 3 or 5 year term? Or do you require a 1-year commitment?
 - b. You request service from Harbor Lights Middle School, 1024 136th Avenue, Holland MI 49424 to the other locations. One of those locations is West Ottawa High School at what appears to be the same address, except the High School is listed as N 136th Av. You are requesting a separate 10G circuit to this same address? If yes, would it terminate in a different equipment room or different building?
 - c. Do you prefer or require a dedicated 10G individual circuit from each remote site, or would you consider a “switched” design that would provision a 100G circuit at the host and aggregate all the remote data traffic to your data center?
4. Is the RFP that was put out by AE Tech Design a different project, or are these one in the same fiber WAN projects?
5. Each RFP has separate due dates, so we are just wondering if the leased lit fiber / internet RFP project has anything to do with what AE Tech has issued?

Questions and Answers regarding construction of new OSP fiber which is the scope of this bid:

1. What is their intent for each leg?

- a. From Sheldon Woods Elementary School (From Blair St to 152nd Ave and down 152nd Ave to Quincy St)
- b. From 152nd and Quincy to 168th and Quincy, down 168th Ave to W Lakewood Blvd, down W Lakewood Blvd to 152nd Ave. (This passing Lakeshore Elementary School, Lakewood Elementary School and Waukazoo Elementary School)
- c. From Maintenance Garage to Harbor Lights School, and the corner of 144th and Butter Cup, loop at end of Kramer St, Eagle Crest Charter Academy and North Holland Elementary?
- d. Is it intended to for the stretch on James St from N 120th Ave to Kramar Dr to be redundant with each other? If so, one stretch will need to be buried to make it completely redundant while avoiding 138kV poles.

Answer: The overall intent of this project is to replace older sections of OSP fiber cabling, upgrade strand count in various locations and provide alternate paths for the OSP fiber plant. Intent for individual locations fall into one of these three categories. All alternative design suggestions may be bid as a voluntary alternate to the base bid.

2. It is our understanding that the pole line located on James St from Jameswood Ct to just beyond U.S. 31 at 12350 James St is shown on design to be new aerial design of fiber optic cable. This aerial pole line consists of 138kV transmission and neither Consumers Energy or Holland BPW allows new attachments of new fiber whether overlash or new attachments on poles with 138kV or higher.
 - a. Another section of poles which have 138kV power on them is on James St from 12170 James St to Kramar.

Answer: Assume aerial poles are available for this project. Bidders are to bid per plans and specs. Any further engineering and design for scope beyond what is in the documents will be determined post-bid.

3. Does West Ottawa Schools have an easement to use the following stretches of pole lines which are located in areas designed to be aerial, but their poles lines are in private property?
 - a. 6151 152nd Ave to 15230 Van Buren St (250 ft S of Van Buren St)
 - b. 5069 152nd Ave to 4200 152nd Ave
 - c. 15331 Quincy St to 15985 Quincy St (150 ft East of 160th Ave)
 - d. 4017 Estate Dr (North-West Corner of Estate Dr and Quincy St) to 3984 168th (150 ft East of 168th Ave)
 - e. 2974 N 168th Ave to 2875 N 168th Ave
 - f. 2700 N 168th Ave to 445 N 168th Ave

Answer: Bidders to assume West Ottawa Public Schools does have easement to use the pole lines located in private property. Bidders are to bid per plans and specs. Any further engineering and design for scope beyond what is in the documents will be determined post-bid.

4. It is to our understanding that there is no Aerial Pole line on Quincy St from 160th St to 16240 Quincy St and another section is on 144th Ave from Riley St to Butternut Dr.

Answer: Bidders are to bid assuming aerial poles are available for this project. Bidders are to bid per plans and specs. Any further engineering and design for scope beyond what is in the documents will be determined post-bid.

5. It is to our understanding that the Holland BPW has existing fiber which is for open use on W Lakewood Blvd from N 152nd Ave to N 168th Ave. Which would feed Waukazoo Elementary School and Lakewood Elementary School with very little extra cost and time.

Answer: Bidders are to bid per plans and specs. Bidders are welcomed to provide a voluntary alternate.

6. It is our understanding that the Holland BPW would be interested sharing the cost, ownership and maintenance of the fiber on N 168th Ave from W Lakewood Blvd to Quincy St. and continuing on Quincy St from N 168th Ave to N 152nd Ave
 - a. Would this be an interest of the school district?

Answer: Bidders are to bid per plans and specs. That determination will be made post-bid. Bidders are welcomed to provide a voluntary alternate.

7. It is our understanding that the following sections of the design which are labeled "To Be Replaced" are co-owned by West Ottawa School District and the Holland BPW. Work on this fiber must first be consulted with the Holland BPW. If more strands are desired than what is currently available, these portions may need to be changed to "New Single Mode Fiber"
 - b. On N 152nd Ave from W Lakewood Blvd to Riley St.
 - c. On N 136th Ave from Quincy St to New Holland St.

Answer: Bidders are to bid per plans and specs. Co-ownership of fiber sections will be determined post-bid.

8. What is your intent or specifications of what must be done in the areas of fiber which is labeled "To be Replaced?"
 - d. Do you request this area to use the same strand and de-lash the old fiber and install the new fiber on the same strand and decrease the outage?

Answer: Bidder is to plan on using the same strand and de-lashing, installing new cable, and re-lashing.

- a. Do you intend these sections to have the new/larger fiber over-lashed to the existing fiber and strand?

Answer: New/larger fiber is not to be over-lashed over existing fiber.

9. What is the intent or definition of what is desired for the areas labeled "Alternate 1", through "Alternate 3"?
 - e. Do you request the to be sub bids or categories in the bid which can be chosen or eliminated from the project?
 - f. Are they supposed to be included in the lump sum of the bid?

Answer: All alternates are to be bid in categories that can be added or removed from the base bid. Alternates are to not be included within the base bid. An alternate is either an add or deduct to the base bid sum, not a replacement of the base bid sum.

10. Under Point 4.5.10, would Commscope Fiber be an acceptable manufacturer of fiber and equipment to be used in this project?

Answer: Bidders are to utilize manufactures listed within spec section 4.5.10 in their base bid. Bidders are welcomed to provide other manufactures as a voluntary alternate.

11. Can the fiber sizes specified be upsized to provide larger expansion in the future and shared use with other entities to make some of the money back from the construction of this project?

Answer: Bidders are to bid the stand count listed within the drawings and specs. Bidders are welcome to provide a voluntary alternate for upsized stand count.

12. Regarding handoff; for the Lit fiber option to be handed off on Multi-mode or Single-mode fiber, LC connectors?

Answer: Reference sheet T301 detail 4 "Fiber Tray" for connector manufacturer, model and detail. Single-mode LC are specified per that drawing for the hand off.

13. Do they want us to bring fiber to the MDF of the West OHS North building as indicated on page 29 of the RFP -address on Google for that facility is 3685 Butternut Dr, Holland MI (not 3623). Or is there a different facility represented by the 3623 Butternut Drive address?

Answer: USF RFP will be updated to reflect correct address. The address of 3685 Butternut Dr should be used to reflect the North High School Building.

14. Here's the likely address mis-match – West Ottawa HS North Campus is large. We need additional information on the site/structure they want connectivity (maps appear all residential just down the street at the address provided).

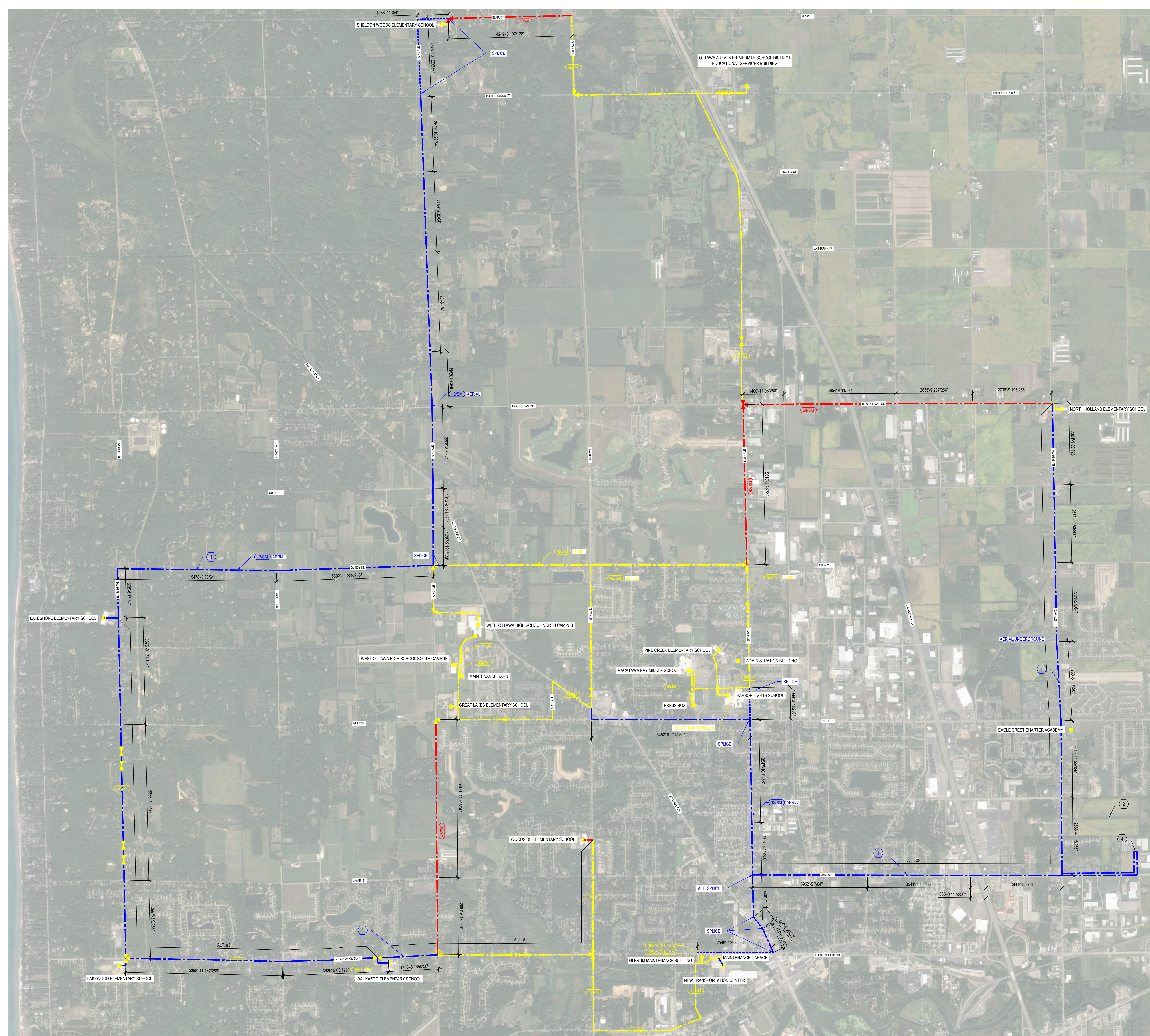
Answer: Please see answer to question 16.

15. We presume all other fiber services will be demarked to the MDF in each building. Please correct/advise if otherwise.

Answer: Bidders are to construct fiber to each buildings MDF.

16. Will there be future opportunities to tour/view the headend for the school districts WAN network?

Answer: West Ottawa Public Schools will host bidders for a tour of the head end site (Harbor Lights Middle School) December 17th at 10:30 am. This will only be to tour the MDF of this site and not each individual site's MDF.



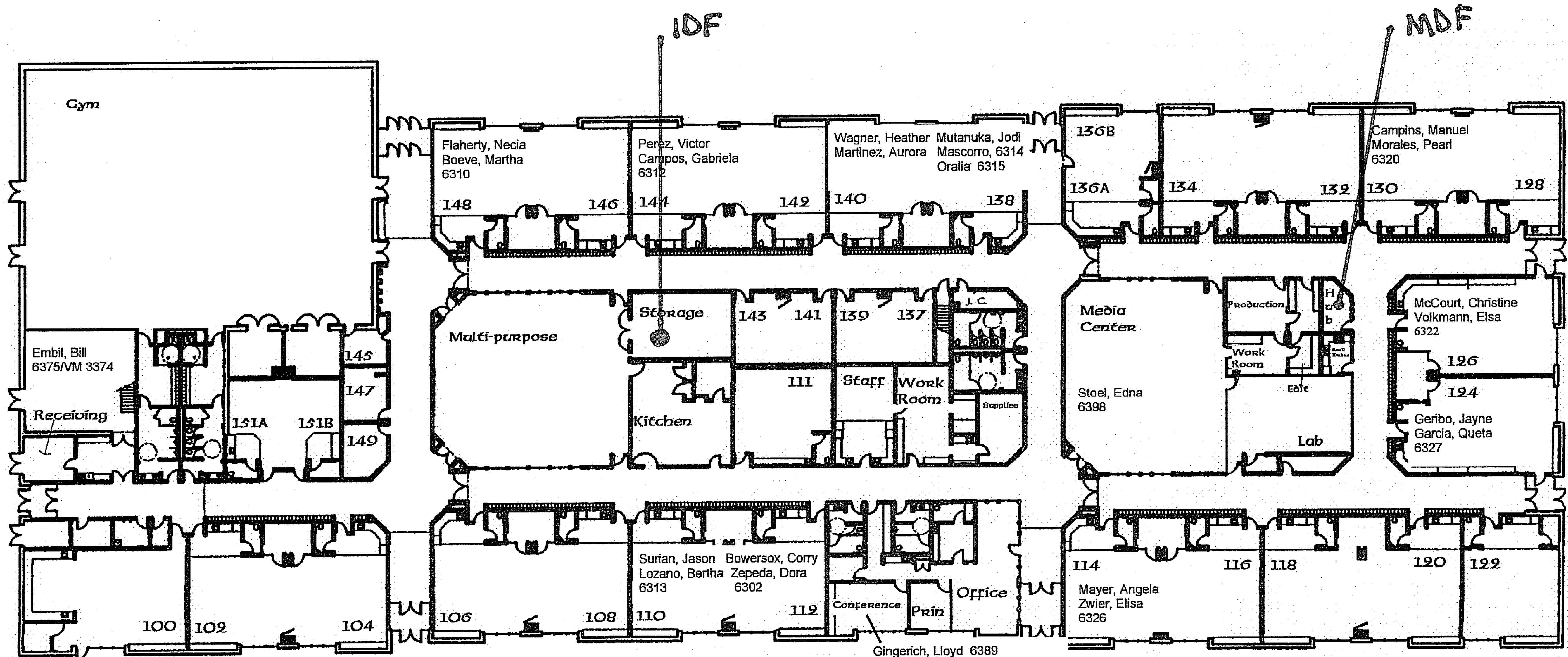
SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	EXISTING FIBER TERMINATION
	EXISTING FIBER SPLICE
	EXISTING SINGLE MODE FIBER - TO REMAIN
	EXISTING SINGLE MODE FIBER - TO BE REPLACED
	NEW SINGLE MODE FIBER
	NEW SINGLE MODE FIBER - UNDERGROUND

- | KEYED NOTES | |
|-------------|---|
| 1 | PRELIMINARY FIBER ROUTE DEPENDING ON UTILITY COMPANY'S FINDINGS. |
| 2 | PROPOSED LOCATION FOR NEW ELEMENTARY SCHOOL. INSTALL FIBER PRIOR TO COMPLETION OF THE NEW BUILDING. ROUTE NEW FIBER TO UTILITY POLE NEAREST THE MAIN DRIVE. COIL 450 FEET OF SINGLE-MODE ENTRANCE FIBER. PROVIDE AERIAL SPLICE CAPSULE AND SPLICE ENTRANCE FIBER TO BACKBONE FIBER. UPON COMPLETION OF NEW BUILDING ROUTE ENTRANCE FIBER INTO FACILITY AND TERMINATE. |
| 3 | REPLACE AS INSTALLED. |
| 4 | PROVIDE 1400 FOOT LOOP AT END OF KAMAR STREET. |

- | GENERAL NOTES | |
|---------------|--|
| 1 | FOR EXISTING SINGLE MODE FIBER - TO BE REPLACED (RED LINES), CONTRACTOR TO DE-LASH, REMOVE OLD CABLE, INSTALL NEW, AND LASH NEW CABLE. |

GENERAL NOTES

1. FOR ALL SITES, CONTRACTOR TO LAND FIBER IN MDF OF THE BUILDING.



← North

Square footage: 67,098

Great Lakes Elementary
 3200 N 152nd Ave
 Holland, MI 49424
 616.738.6300

Office: Steinfort, Julie 6301
 Silva, Rosa 6300

West Ottawa Public Schools
 Fiber WAN Additions & Replacements
 Holland, MI
 Great Lakes ES Tech Plan - Composite

ISSUE / DATE
2019-10-23 REVIEW
2019-11-15 FOR BIDS
2019-12-05 ADDENDUM 1
DRAWN BY
EMC/NW/CDB
PROJECT NO.
1802-0000
SHEET NO.

T101