



CENTRAL YORK FIRE SERVICES

2019-02-27

Fire Services Report 2019-02

To: Joint Council Committee

Origin: Central York Fire Services - Fire Chief

Subject: **Central York Fire Services, Fire Station 4-4 Access**

RECOMMENDATIONS

THAT Fire Services Report 2019-02, Central York Fire Services (CYFS) , Fire Station (FS) 4-4 Access dated 2019-02-27, be received for information purposes;

And that CYFS advise the JCC of the current status of the safety issues related to access to and egress from FS 4-4 on Wellington Street East;

And that CYFS move forward with sharing the information with staff and JCC to outline the issues and the Region of York proposed options to address safety concerns regarding the current situation.

COMMENTS

Fire Station 4-4 is located at 1344 Wellington Street East in the Town of Aurora which is a Regional road. Wellington Street is a major east west artery and a direct link to Highway 404. Over the years there have been steady increases in the numbers of vehicles travelling on this roadway which has initiated some significant safety challenges to those entering and exiting the fire station. Fire response times are vital to the safety of the community and with the average speed of traffic on this roadway in excess of 80 kilometres per hour, staff have reported it is increasingly difficult to exit the fire station for emergency calls in a timely fashion.

BACKGROUND

In 2010 a fire truck responding to an emergency call was struck by a west bound dump truck that lost control while attempting to stop. The fire truck with all the emergency lights activated waited at the threshold of the driveway while the traffic on Wellington Street came to a stop. A dump truck driver was unable to stop and his truck left the

roadway, travelled over the bike path, the sidewalk and struck the fire truck. Due to the significant damage the insurance company decided to write the truck off. The quick actions of the fire truck driver who moved the truck forward just before the impact actually saved the fire crew from injury or even death.

Over the past number of years the traffic volume has increased and there have been a number of discussions regarding entry into and exiting from the fire station in a safer and more time sensitive manner. These discussions led to a meeting with the Region at the fire station to see first-hand the traffic issues and to discuss options related to how to better warn the motoring public of the fire station location and the potential for fire trucks entering the roadway. Upon study by Regional staff several options were recently presented to CYFS and are included in the attached presentation.

BUDGET IMPACT

There are budget impacts resulting from any changes or upgrades to the roadway or signalling devices that could be undertaken to address these safety concerns and apparatus response times.

CONSULTATION

Firefighters working at Fire Station 4-4 have brought this issue forward as a Health and Safety concern and met with the Senior Fire Officers and in turn with the Regional Director of Transportation Services.

IMPACT ON THE MASTER FIRE PLAN

The FDMPU outlines the need to respond to all emergencies in a timely fashion, the current situation provides an impairment to the timely response of fire apparatus from this fire station.

CONTACT

Fire Chief Ian Laing



Ian Laing, Fire Chief
Central York Fire Service



Looking east from fire station 4-4 location towards Leslie and Hwy 404.



Looking west towards the fire station



Dump truck left the roadway, crossed the boulevard, bike path and sidewalk prior to colliding with the fire truck

Attached is the power point presentation from the Region of York that outlines several options that could assist with providing a solution to the issues that face the firefighters working at FS 44.

Proudly Protecting Aurora & Newmarket

WELCOME

CENTRAL YORK FIRE SERVICES

February 22, 2019



Meeting Purpose

Present options to address concerns from Central York Fire Services regarding entering and exiting Fire Station 4-4



Option 1: Overhead Signs and Pavement Markings



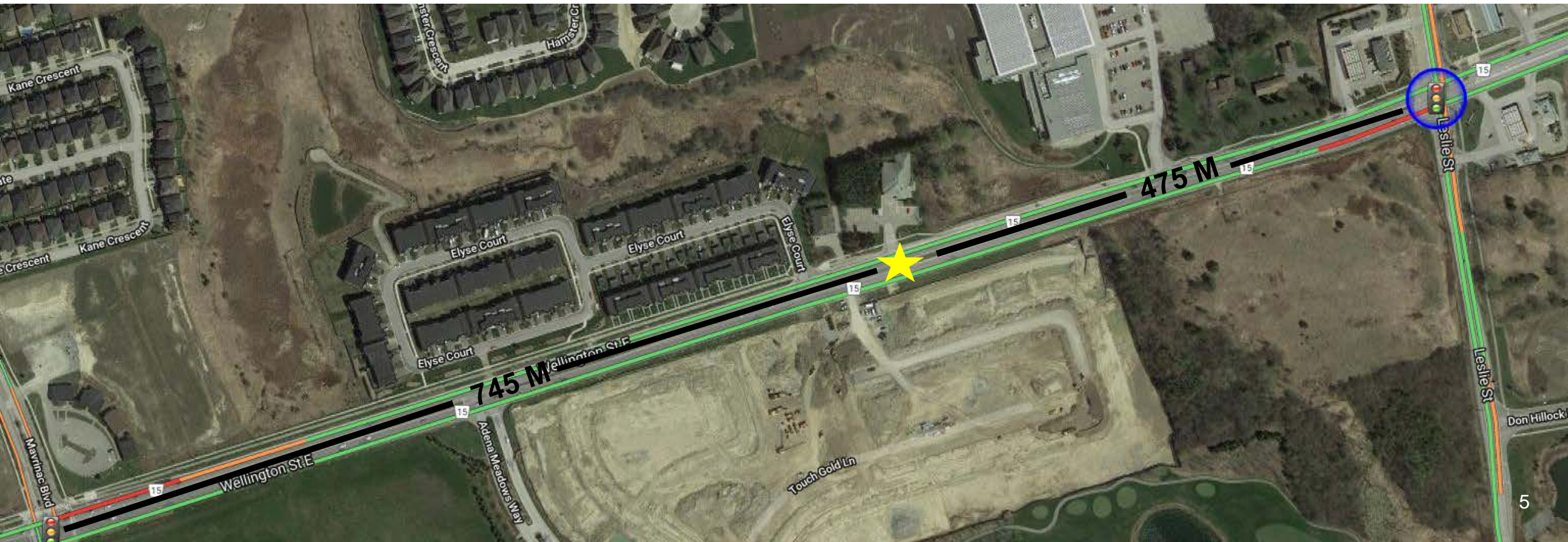
Option 2: Fire Station Traffic Signal Pre-emption

- GPS traffic signal pre-emption control system
- Typically used for emergency vehicles leaving stations located near an equipped signalized intersection

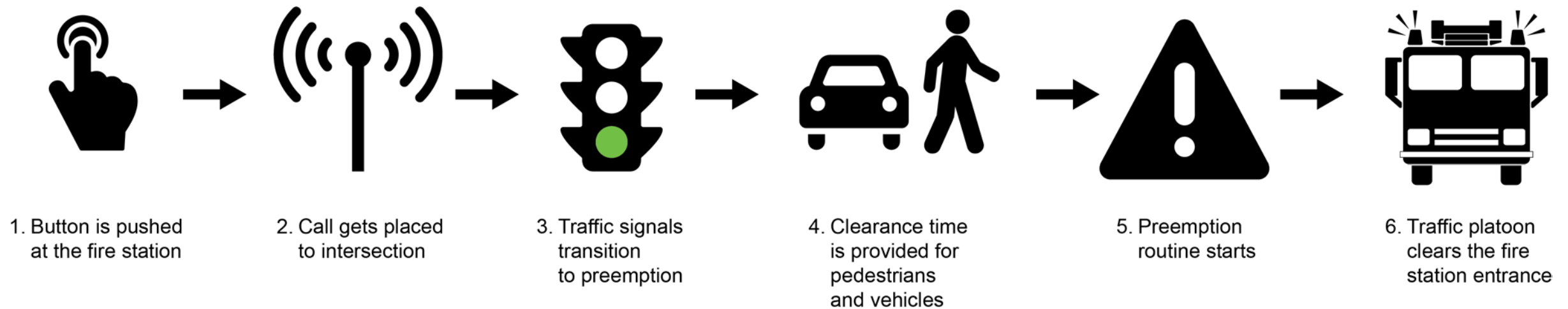


Traffic Signals in Proximity to Fire Station

- Leslie Street at Wellington Street to the east
- Mavrinnac/Stronach Boulevards at Wellington Street to the west



Preemption Overview



Traffic Signal Sequence and Clearance Times



Equipment Installed at Fire Station

Components supplied with the Opticom IntelliGreen kit:

- Control Cabinet installed in Fire Station, requires 120 VAC, 60 Hz, 1 amp feed
- Radio/GPS Unit installed on roof of fire station, pole mounted
- Radio/GPS Unit installation Cable, (150 ft supplied)



Cost to Implement Traffic Signal Preemption

York Region

Preemption equipment

\$6,540 per intersection x 2 signals = \$13,080

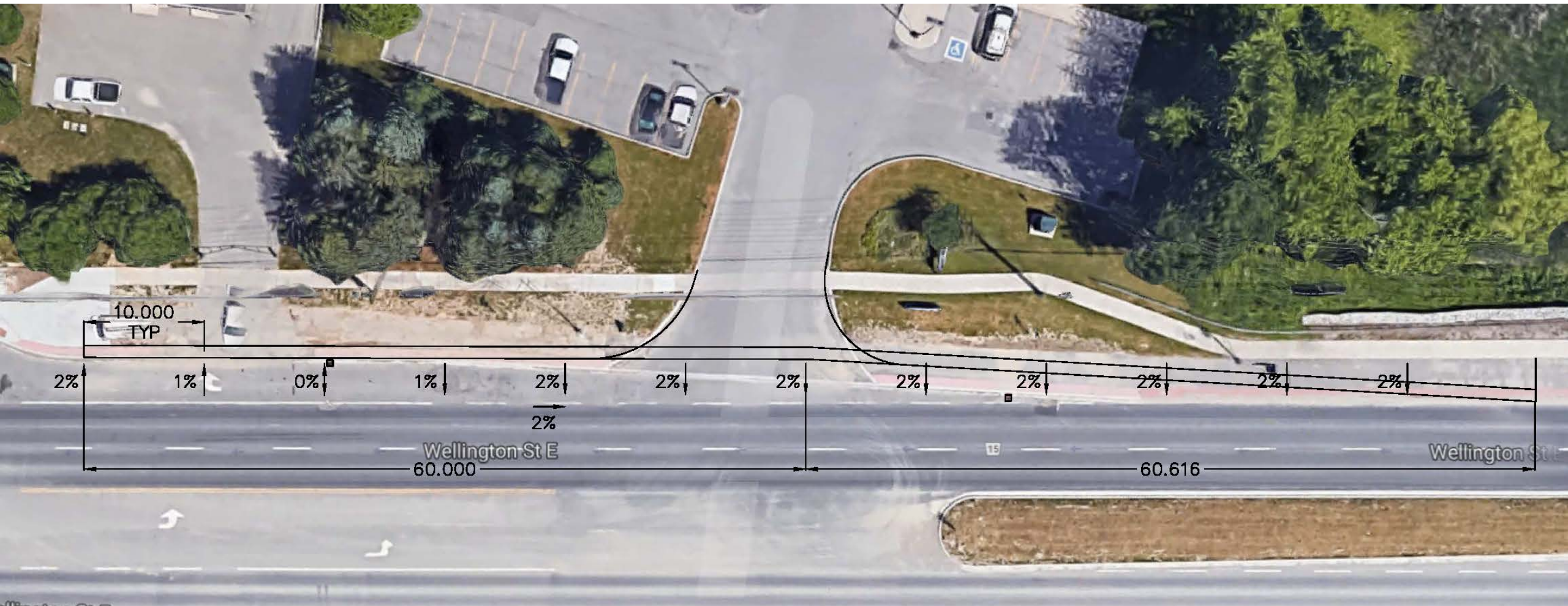
Central York Fire Services

Opticom kit and installation

\$10,750



Option 3: York Regional Design Guidelines -Crossfall



York Regional Design Guidelines - Crossfall

DESIGN CRITERIA

DS-210-Modified

Design Speed - 90km/h

Taper Length - 60m

WORK

- Remove and Replace Curb
- Remove and Replace Sidewalk
- Asphalt Padding
- New Asphalt and Granulars
- Relocate Catchbasin
- Relocate Multi-Use Path

ESTIMATED COST

\$120,000

Option 4: Transportation Association of Canada Guidelines



Transportation Association of Canada

DESIGN CRITERIA
(TABLE 2.3.5.1)-Modified
Design Speed - 90km/h
Taper Length - 90m

- WORK**
- Remove and Replace Curb
 - Remove and Replace Sidewalk
 - New Asphalt and Granulars
 - Relocate 2 Catchbasins
 - Relocate Multi-Use Path

ESTIMATED COST
\$105,000

Option 5: York Regional Design Guidelines



York Regional Design Guidelines

DESIGN CRITERIA

DS-210-Modified

Design Speed - 90km/h

Taper Length - 60m

WORK

- Remove and Replace Curb
- Remove and Replace Sidewalk
- New Asphalt and Granulars
- Relocate Catchbasin
- Relocate Multi-Use Path

ESTIMATED COST

\$80,000

Summary of Options and Costs

| | Option | Central York Fire Services | York Region |
|----|---------------------------|-------------------------------|----------------|
| 1. | Overhead Sign | \$40,000 | |
| | Pavement Markings | \$10,000 | |
| 2. | Traffic Signal Preemption | \$10,750 | \$13,080 |
| 3. | YRDG Crossfall | \$120,000 | |
| 4. | TAC | \$105,000 | |
| 5. | YRDG | \$80,000 | |

THANK YOU

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