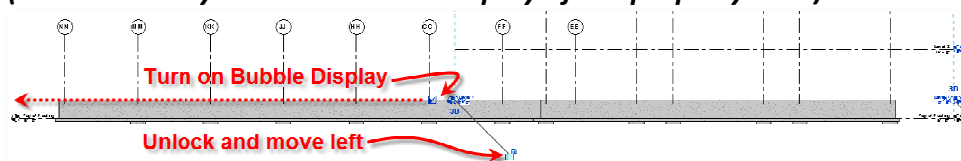


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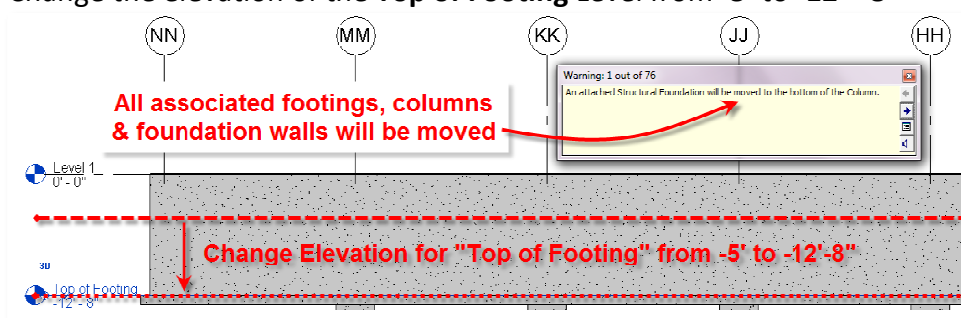
Bldg.Floor Slabs ADDING FIRST FLOOR AND BASEMENT FLOOR SLABS

Overview: We will be adding foundation slabs and structural floor slabs to the Gym, Atrium and the Lab Building. We will be adding a basement level to accommodate locker rooms for the Gym and Mechanical Rooms for the entire complex.

North Elevation: Make the **North Elevation** the **Current View**. Select and align the left end of **Level 1** with the left end of the **Top of Footing** Level. To move only level 1 and not the upper levels you will need to **Toggle 3D to 2D** and you will need to **Unlock the level**. When done also turn on the **Bubble Display**.
(Note: You may need to hide the display of the property lines)

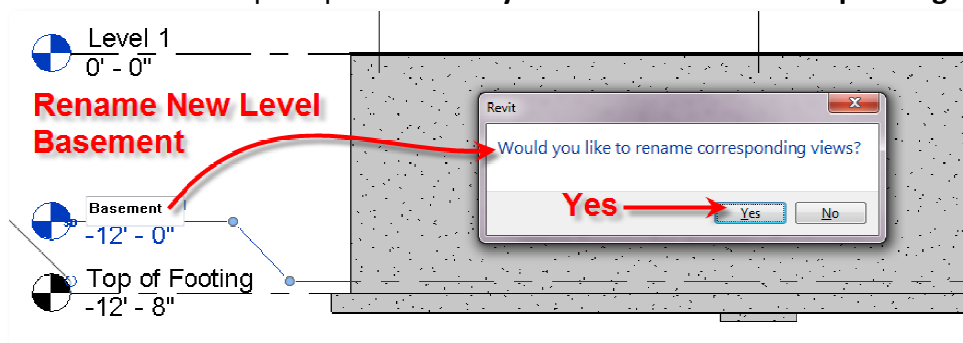


Footing Elevation: Change the elevation of the **Top of Footing** Level from **-5'** to **-12' - 8"**



Add New Level: Create a New Level by Offsetting **Top of Footing** up 8 inches.
Home > Levels > Pick Lines Offset = 8" and **Yes** to **"Make Plan View"**

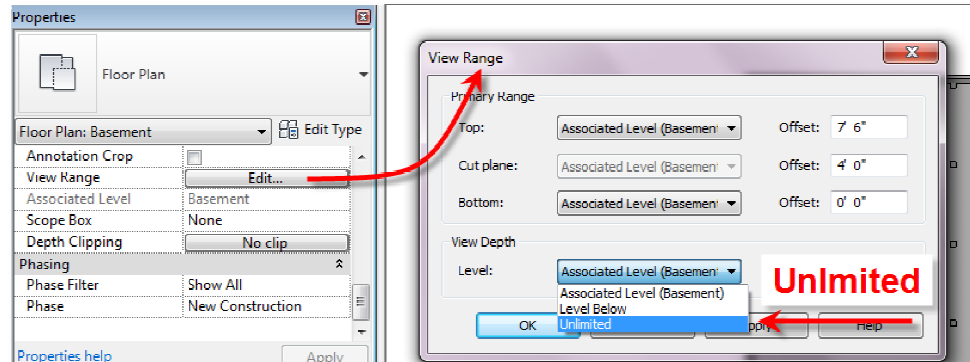
Name this level **Basement**. The elevation of this level should be at **-12'-8"**
Select **"Yes"** when prompted **"Would you like to rename corresponding views?"**



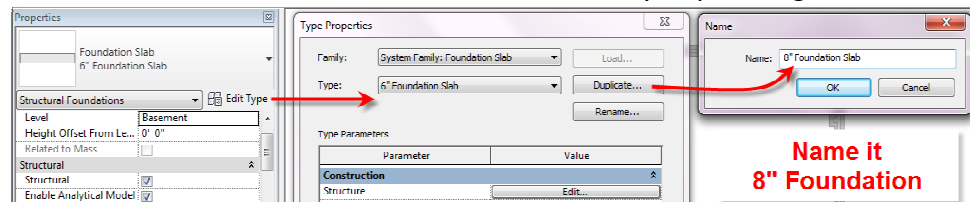
Adjust Graphics: Shift the Basement Level Bubble so it does not overlap with **"Top of Footing"**

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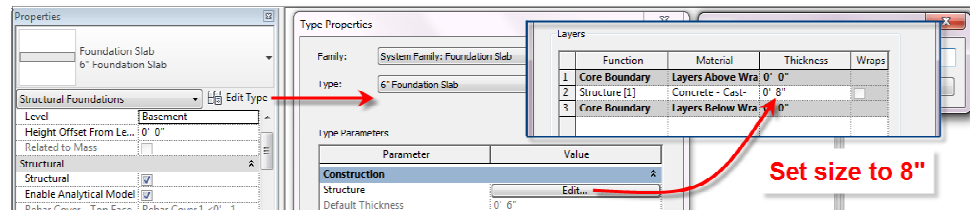
Basement Level: Make the **Basement Level** the **Current View** and then Select "**View Range**" for the basement level and change "**View depth**" to unlimited.



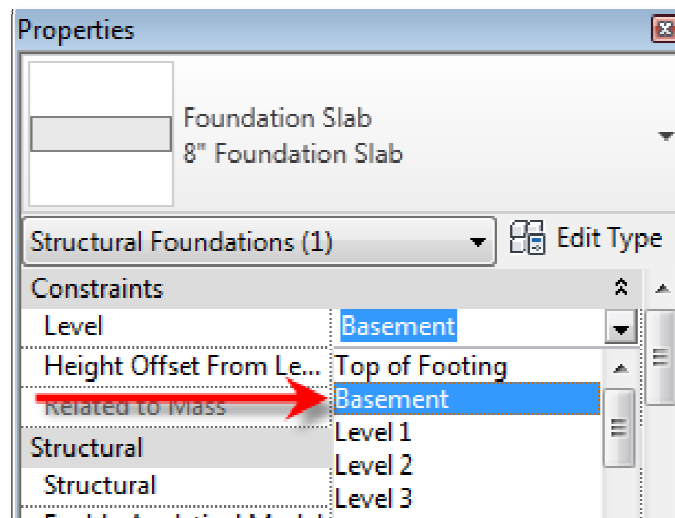
Duplicate Slab: **Structure > Slab > Foundation Slab > 6" Foundation Slab**
We need to create our own 8" foundation slab by duplicating the 6" slab



After renaming the new type, **edit the structure** and change the **thickness** to 8"

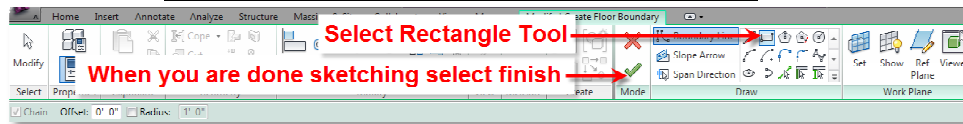


Draw Slabs: Make certain the level is set to "**Basement**".

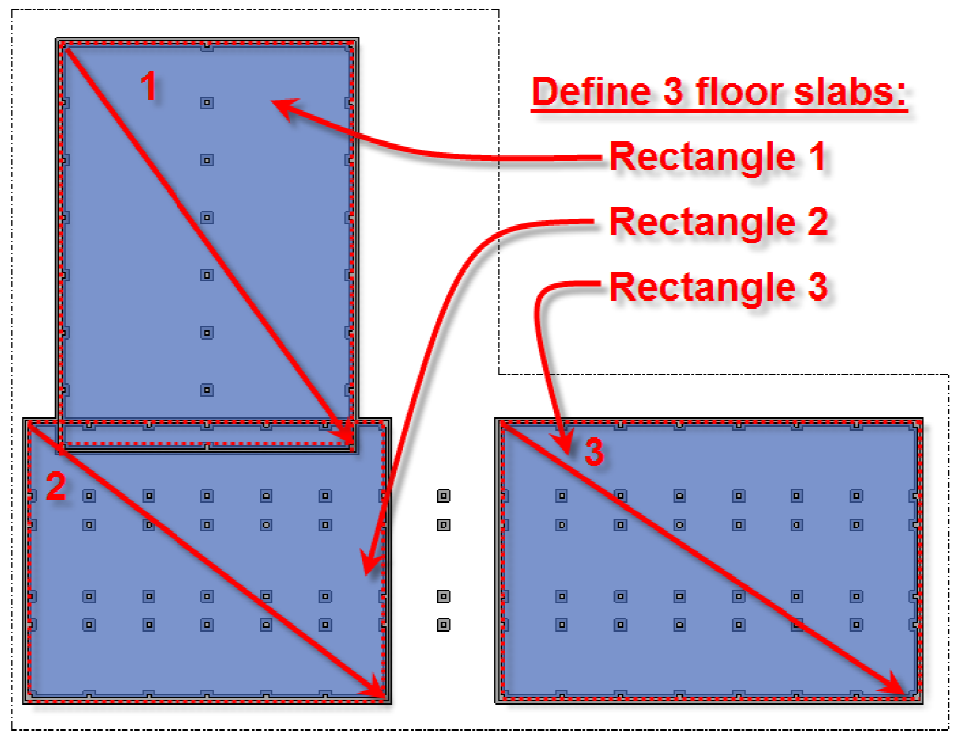


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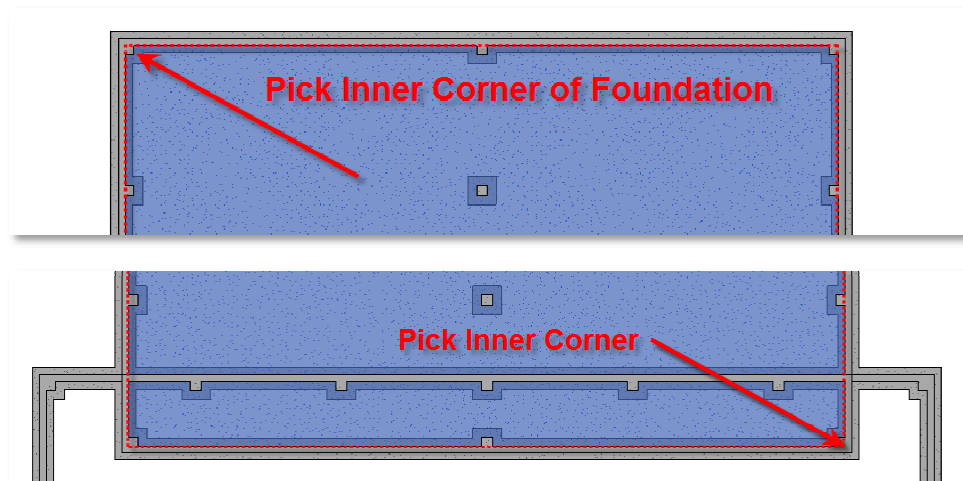
Create Slab: **Structure > Slab > Foundation Slab > 8" Foundation Slab**



Draw Slabs: Draw 3 rectangles to create the slabs for the Gym, Atrium and Lab Building.



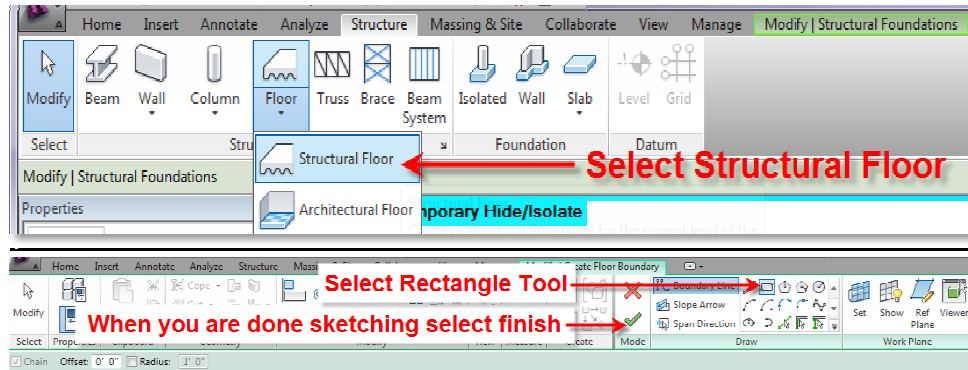
Rectangles: For the Gym/Auditorium, Atrium and Lab Building, draw rectangles snapping to the inner corners of the foundation walls.



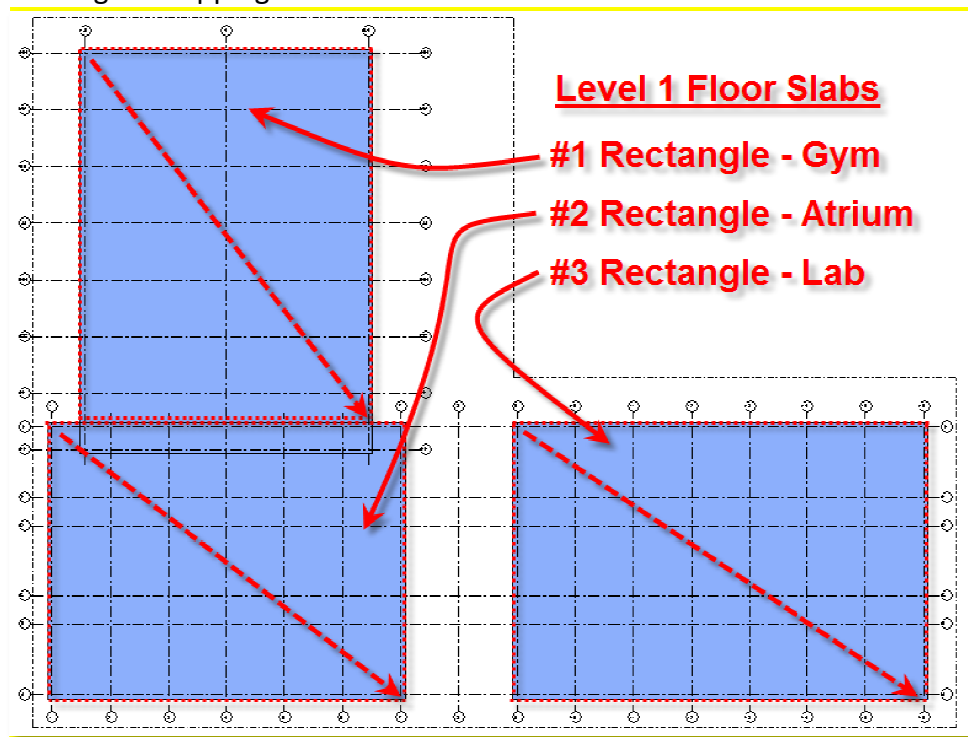
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Level 1: Make **Level 1** the **Current View**

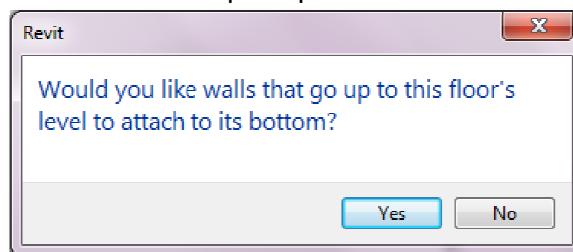
Create Floor: **Structure > Floor > Structural Floor > Floor Generic - 12"**



Rectangles: For the Gym/Auditorium, the Atrium and the Lab Building we will draw rectangles snapping to the outer corners of the foundation wall



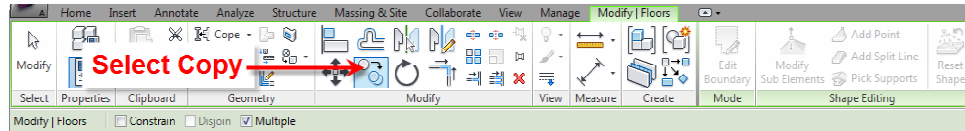
Attach: Select **Yes** when prompted to attach walls to the floors bottom



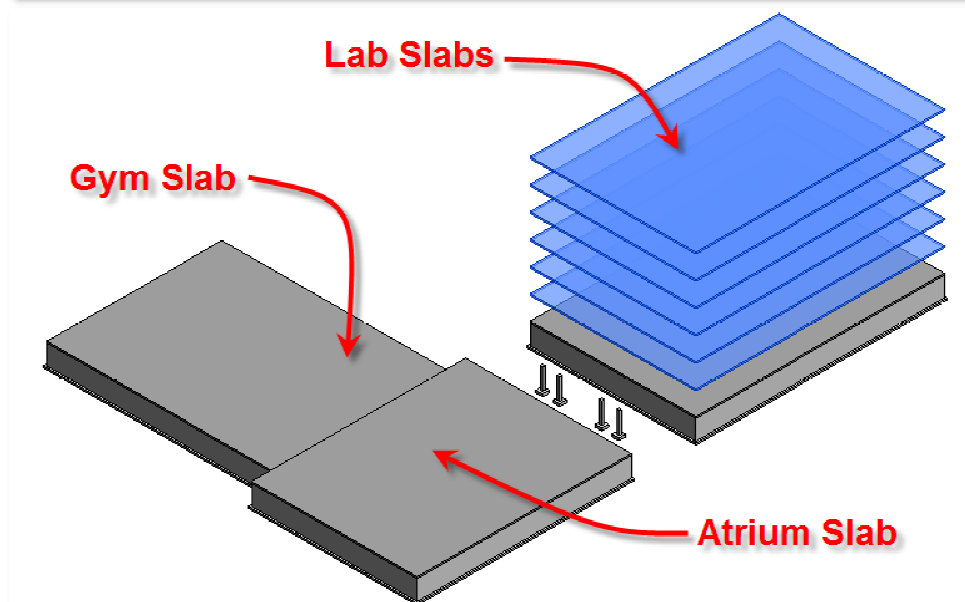
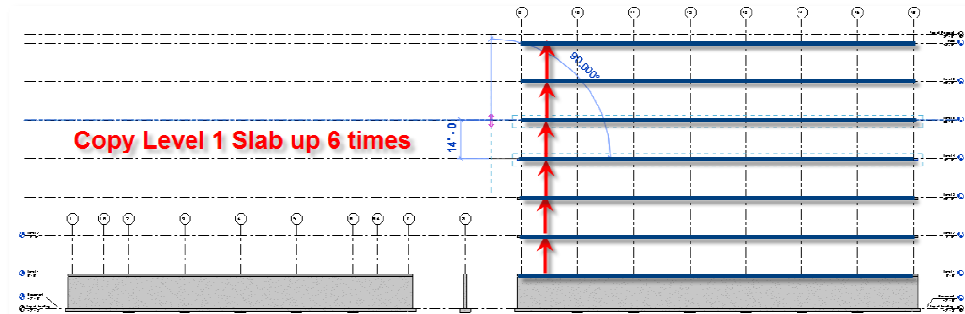
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West Elevation: To copy the lab slabs to the upper levels, set **West Elevation** the **Current View**

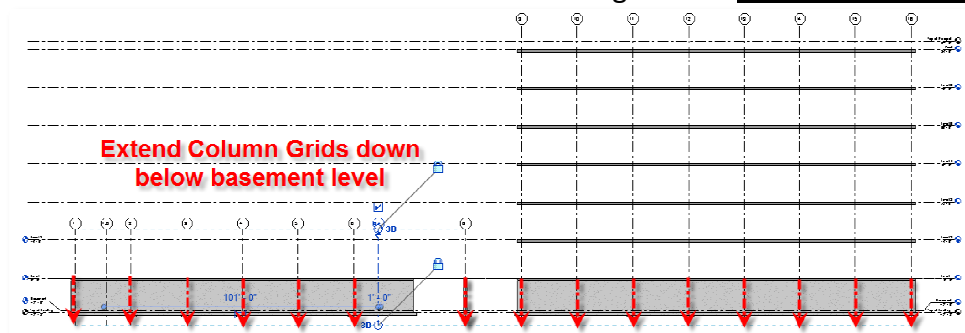
Select Floor: Select the **level 1 floor slab** for the lab building



Copy Floor: Copy the level 1 floor up to levels 2, 3, 4, 5 & 6.



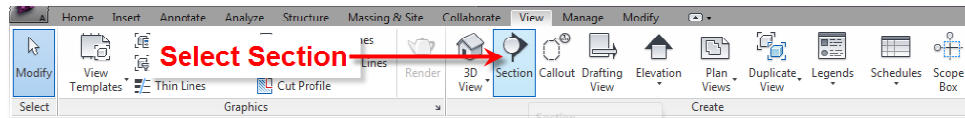
Grid Cleanup: On the **North** and **West** elevations extend the grid lines **below the basement**



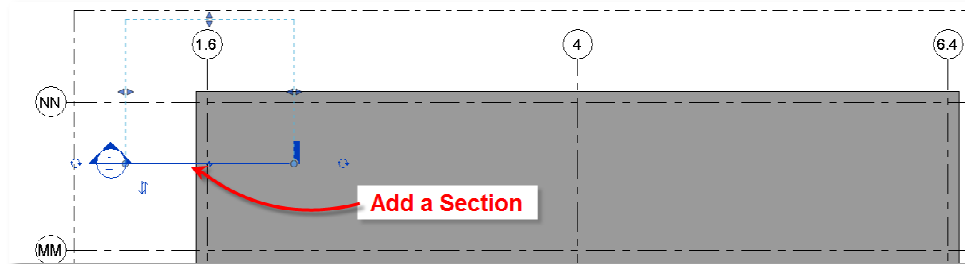
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Review your work: Use a section view to check the construction of the foundation, footings & slabs.

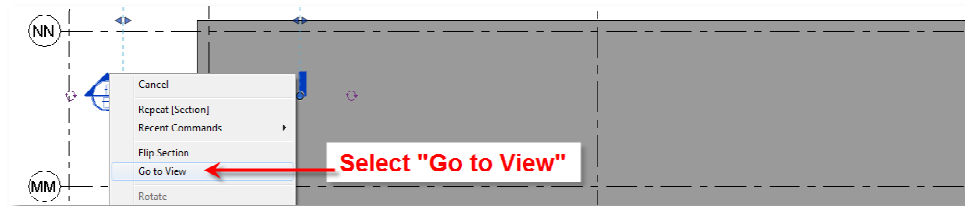
Create Section: **View > Section**



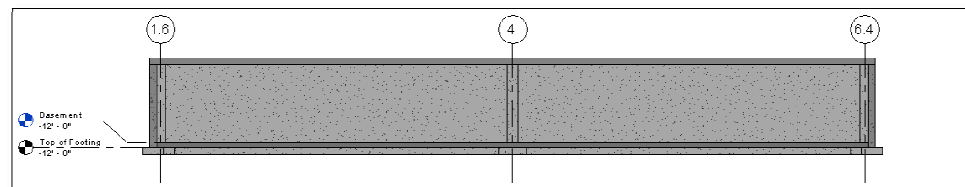
Drag the Section across the foundation wall and slabs



Section View: **Right Click on the Section and then select "Go to View"**



Section View: View of cross section through Gym / Auditorium
Showing Top of Footing, Basement and Level 1



Section Detail: View of section through Gym / Auditorium foundation wall and footing

