



NORTHFIELD BOE – ALTERATIONS AND RENOVATIONS

SCHEMATIC DESIGN PRESENTATION | 03. 26. 2025



PLUMBING

Existing Building Area:

- Demolition:
 - All of the toilet rooms shall have all plumbing fixtures removed including all water closets, urinals and lavatories.
 - Boys and Girls Locker rooms (5 Water Closets, 2 Urinals, 4 Lavatories, 2 Floor Drains, Total)
 - Boys Multi-fixture Toilet Rooms (9 Toilet Rooms, 18 Water Closets, 18 Urinals, 18 Lavatories, 9 Floor Drains, Total)
 - Girls Multi-fixture Toilet Rooms (9 Toilet Rooms, 27 Water Closets, 18 Lavatories, 9 Floor Drains, Total)
 - Single Use Toilet Rooms with Small Water Closets (6 Toilet Rooms, 6 Water Closets, 6 Lavatories, Total)
 - Staff Toilet Room (11 Toilet rooms, 11 Water Closets, 11 Lavatories, Total)
 - All domestic water and sanitary piping, valves and trim shall be removed back to the wall and prepped for reconnection.
 - The six water heaters shall be demolished along with associated piping back to the nearest valve.
 - All hot water return pumps shall be demolished.
- New work:
 - All Toilet rooms shall have new plumbing fixtures installed in place of the demolished fixtures. (See totals listed above for quantity)
 - All domestic water and sanitary piping shall be reconnected to each new plumbing fixture including all required valves and trim.
 - Floor drain replacement will require saw cutting of the floor slab to facilitate the installation of the drain body and connection to the existing underground sanitary piping.

MECHANICAL

Toilet Rooms and Locker Rooms:

- Demolition:
 - The supply air diffusers and exhaust air grills serving the following areas shall be removed to make way for the refurbishment of the toilet room ceiling.
 - Boys and Girls Locker Rooms (10 Grills/Diffusers Total)
 - 18 Multi-Fixture Toilet rooms (36 Grills/Diffusers Total)
 - 11 Staff Toilet rooms (13 Grills/Diffusers Total)
 - The functionality of each exhaust fan serving the existing toilet rooms shall be verified and demolished to make way for a replacement fan if deemed nonfunctional.
- New work:
 - The supply and exhaust air grills serving the above indicated areas shall be replaced with new and connected to the existing ductwork.
 - The exhaust fans serving these spaces shall be replaced as required upon unit inspection.

Media Center Renovation:

- Demolition:
 - The existing supply air grills and associated ductwork shall be demolished, and the wall patched to match existing conditions.
 - The existing supply air ductwork shall be removed back to the supply air riser.
 - The existing return air grills shall be demolished with the existing ductwork to remain.
- New work:
 - The media center is to be split into 10 individual spaces including the main media center area and nine SGI rooms.
 - Each area of the media center will be conditioned via a VAV box with a thermostat for each individual space. (10 Total)
 - Supply air ductwork will be provided from the supply air riser into the media center via a concealed soffit above the SGI rooms where the supply air duct will connect to the VAV boxes serving the SGI spaces.
 - Supply air ductwork serving the large media center area shall be exposed double wall spiral ductwork served by a VAV box concealed above the corridor ceiling.

ELECTRICAL

ELECTRICAL SERVICE AND DISTRIBUTION

- Existing switchboard and distribution service is in great shape and has been recently upgraded.
- There are existing panels located in corridors for areas within scope of work. We shall utilize existing panels where applicable, media center may require an additional panel pending final loads and capacity determined at a later date.

LIGHTING SYSTEMS

- Light fixtures for areas in scope of work shall be upgraded to LED with dual technology occupancy sensors. These fixtures will include recessed fixtures throughout all areas and pendant fixtures in Media Center. Lighting controls for spaces shall comply to ASHRAE 90.1 lighting power densities. These controls shall include multiple dimming zones in Media Center.

FIRE ALARM SYSTEM

- Existing fire alarm panel is Edwards EST located in Electrical Room.
- Newly renovated spaces shall be provided with initiation and notification devices compatible with existing Edwards system located as required by NFPA 72.

P.A. SYSTEM

- School utilizes an existing Bogen system. Further investigation is required to determine if existing system can support VOIP speakers, if not system may need to be upgraded.
- Replace all wall mounted speakers with ceiling mounted fixtures. Additional speakers will be added to the SGI and offices in the Media Center.

MASTER CLOCK

- Existing combination speaker/clock devices shall be removed and replaced with 120V, wired analog clocks.

A/V AND PROJECTION SYSTEM

- Temporarily remove existing shorth throw projector and relocate after new construction.

SECURITY SYSTEM

- Alarm system panel is located in the IT Office and is serviced by Atlantic Coast Alarm.
- Relocate/Replace existing keypad and add additional CCTV in Secure Vestibule.

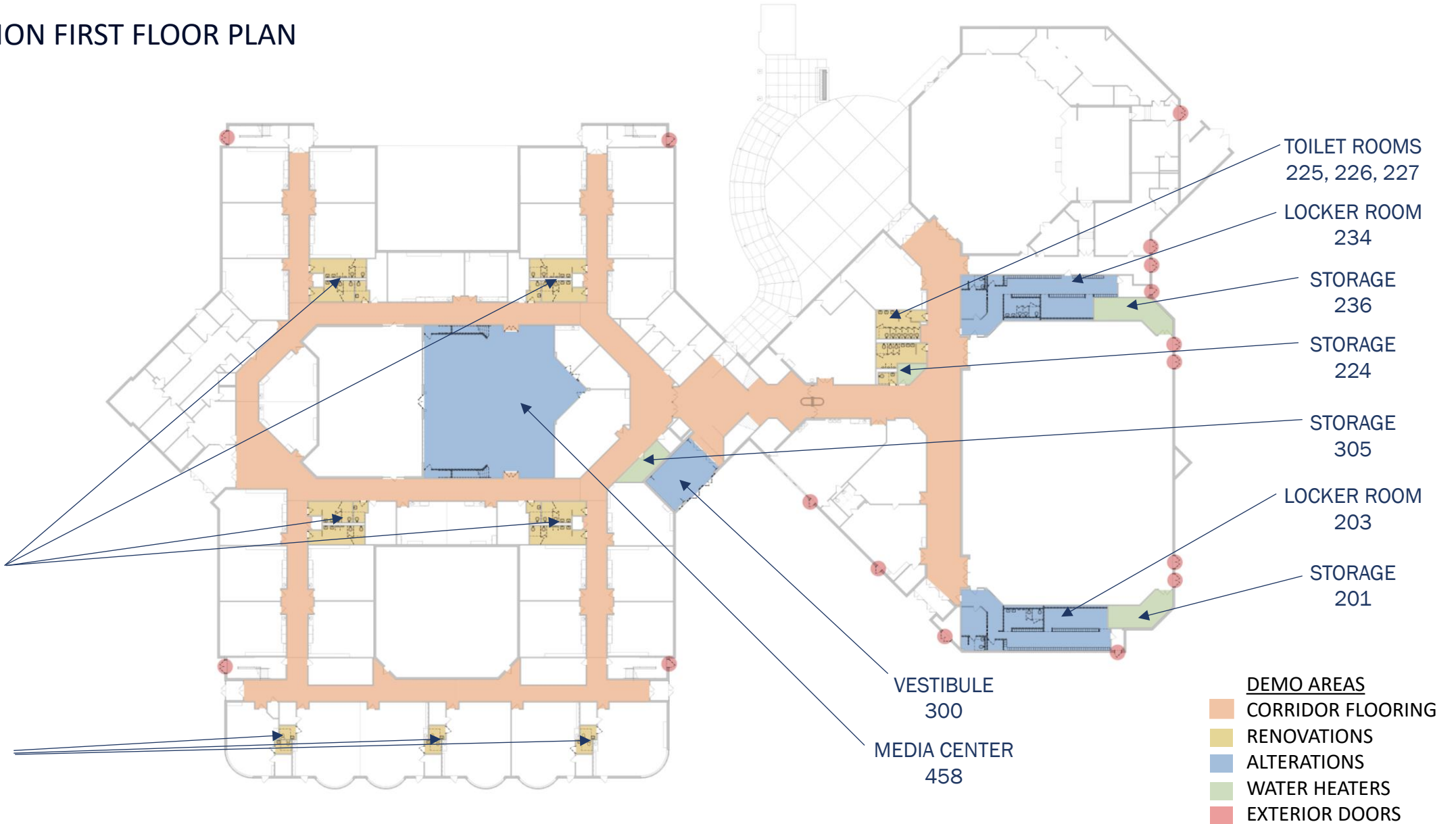
ARCHITECTURAL



DEMOLITION FIRST FLOOR PLAN

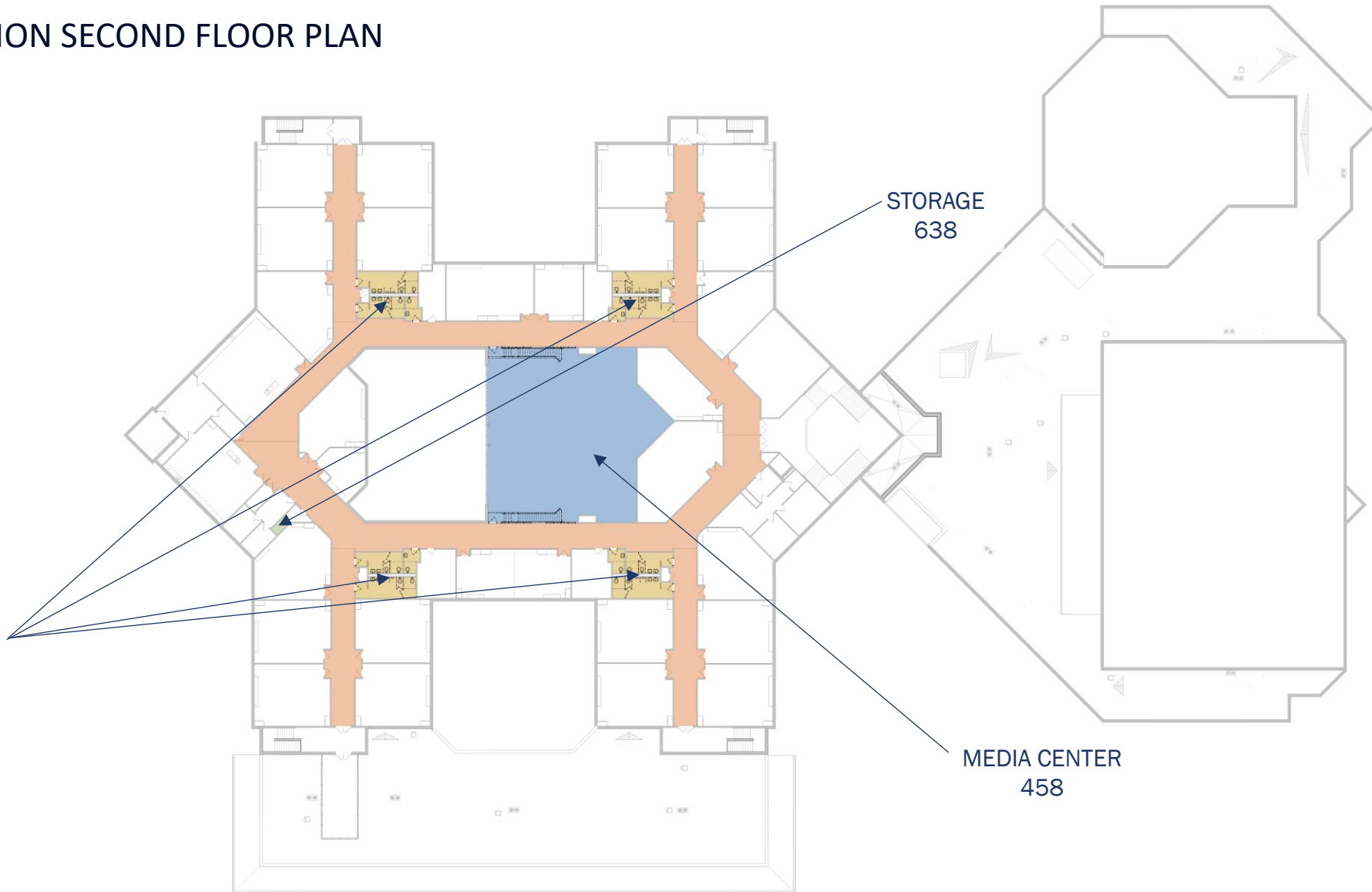
TOILET ROOMS
337, 339, 340
346, 347, 349
428, 430, 431
437, 438, 440

KINDERGARTEN
TOILET ROOMS
313, 314, 319,
320, 325, 326



DEMOLITION SECOND FLOOR PLAN

TOILET ROOMS
514, 516, 517
523, 524, 526
610, 612, 613
619, 621, 622

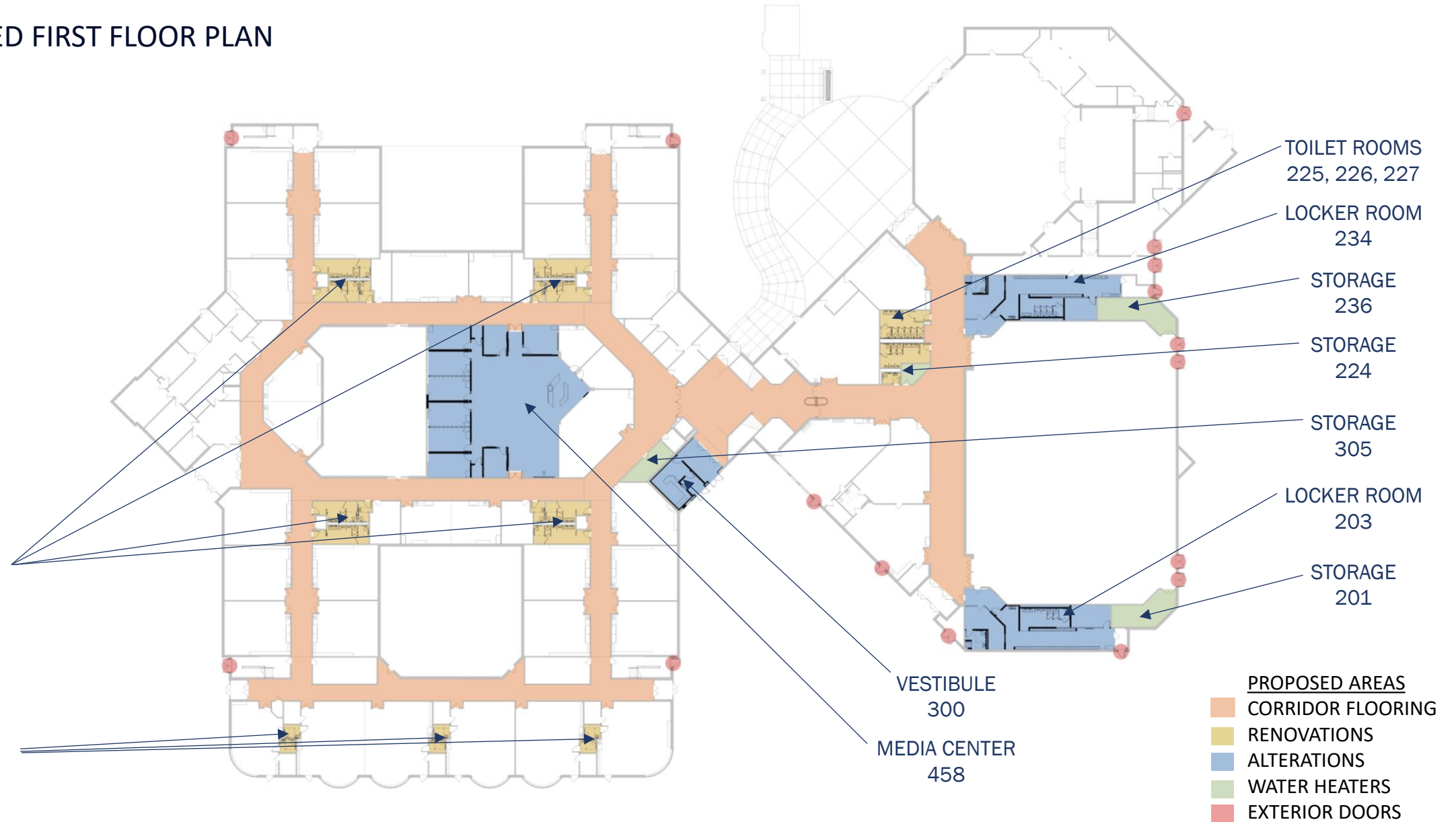


- DEMO AREAS
- CORRIDOR FLOORING
 - RENOVATIONS
 - ALTERATIONS
 - WATER HEATERS
 - EXTERIOR DOORS

PROPOSED FIRST FLOOR PLAN

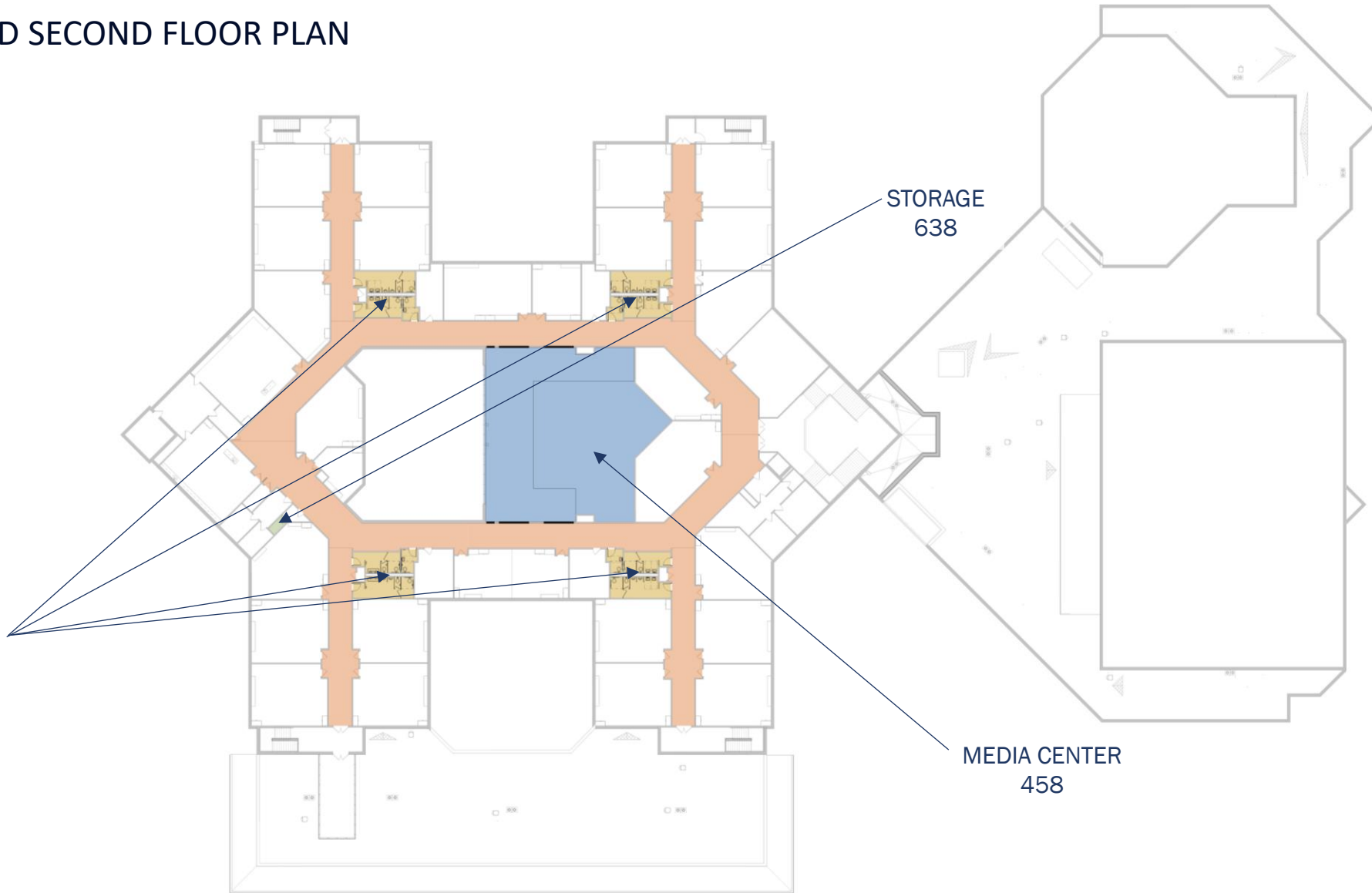
TOILET ROOMS
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KINDERGARTEN
TOILET ROOMS
313, 314, 319,
320, 325, 326



PROPOSED SECOND FLOOR PLAN

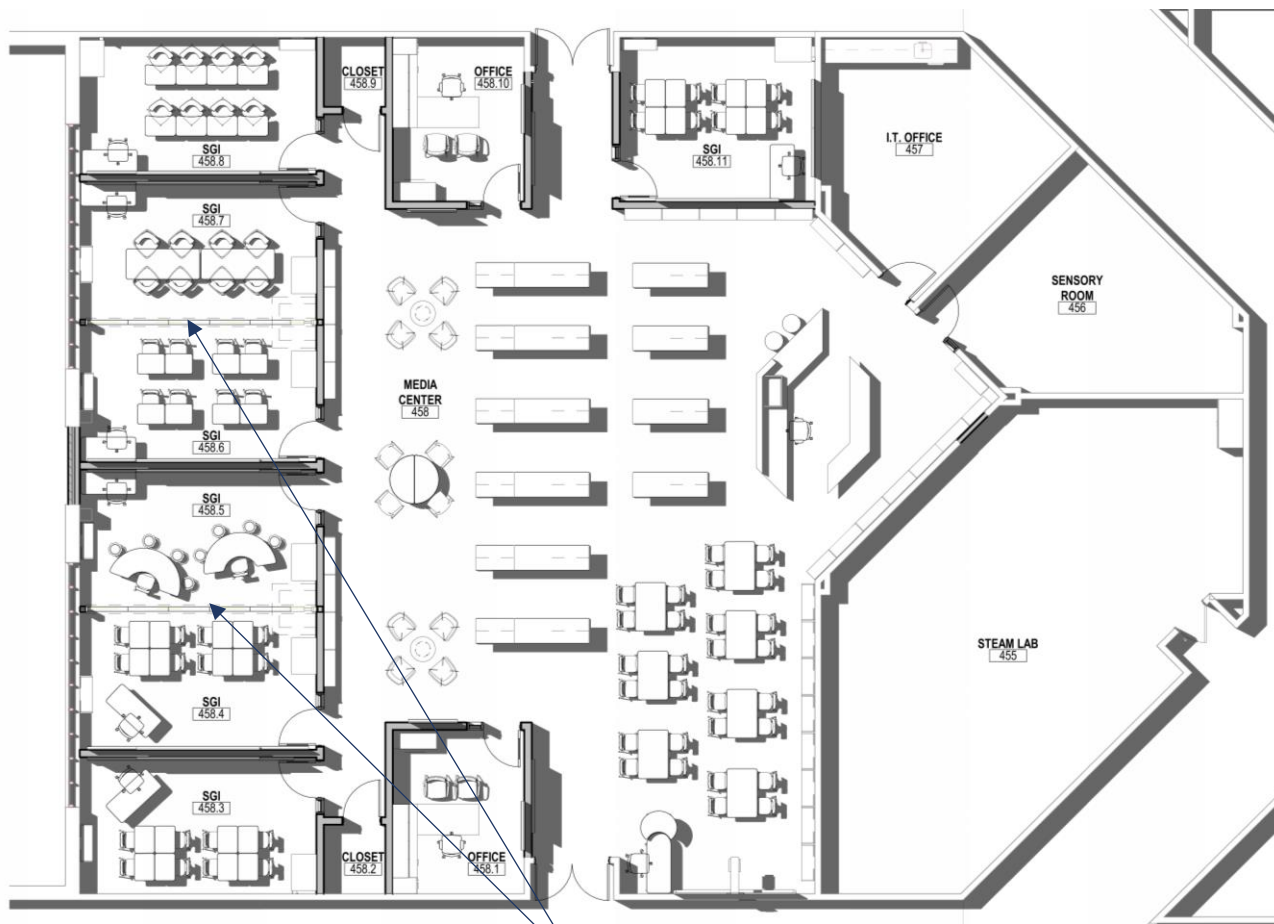
TOILET ROOMS
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610, 612, 613
619, 621, 622



PROPOSED AREAS

- CORRIDOR FLOORING
- RENOVATIONS
- ALTERATIONS
- WATER HEATERS
- EXTERIOR DOORS

MEDIA CENTER



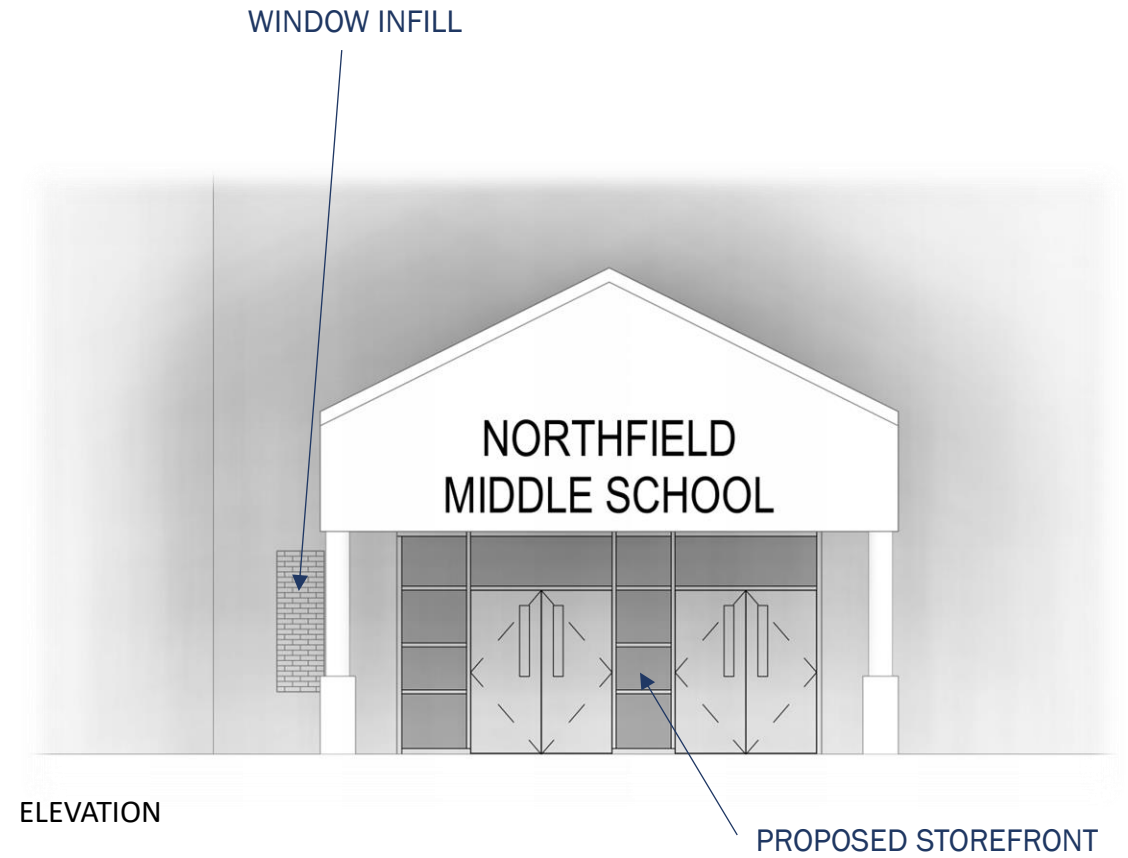
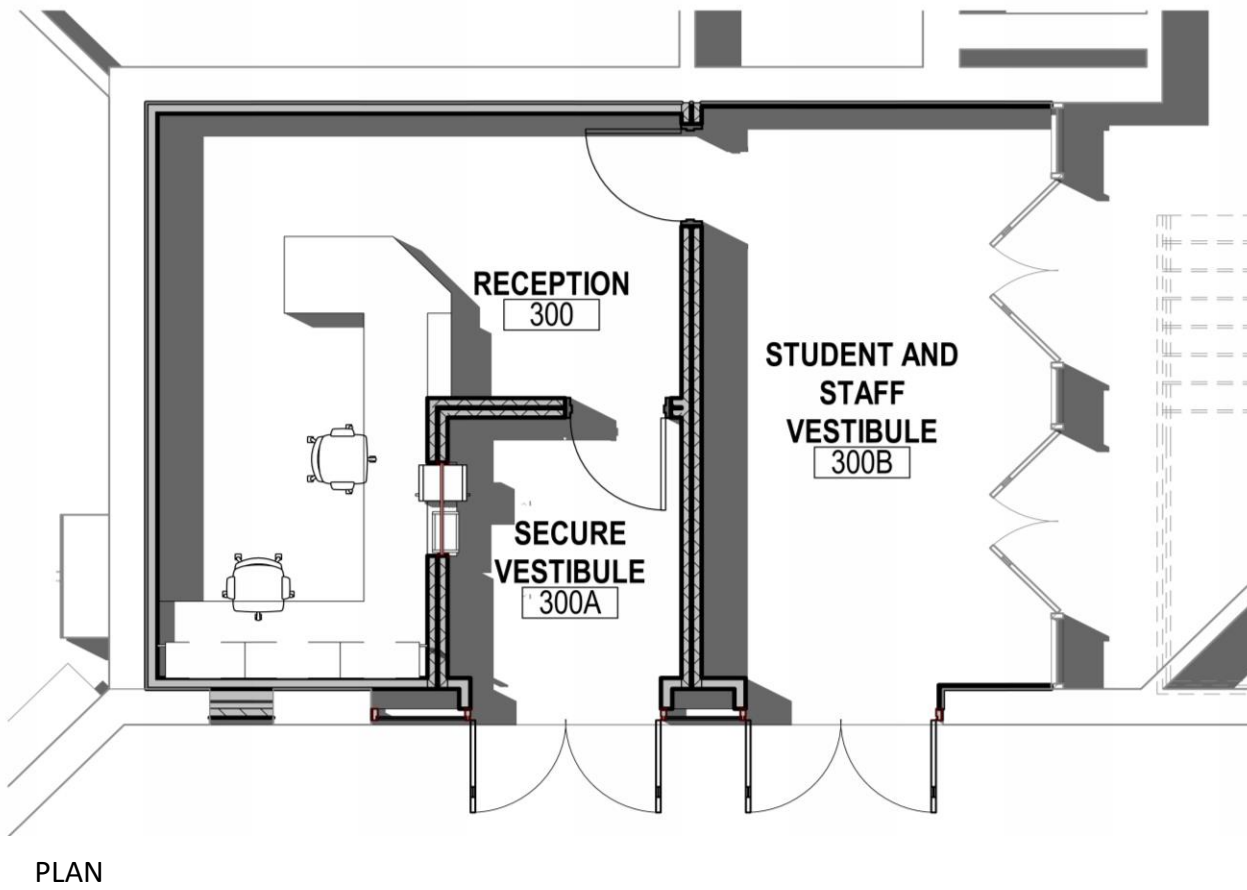
PLAN

FOLDING
PARTITIONS



3D VIEW

SECURE VESTIBULE



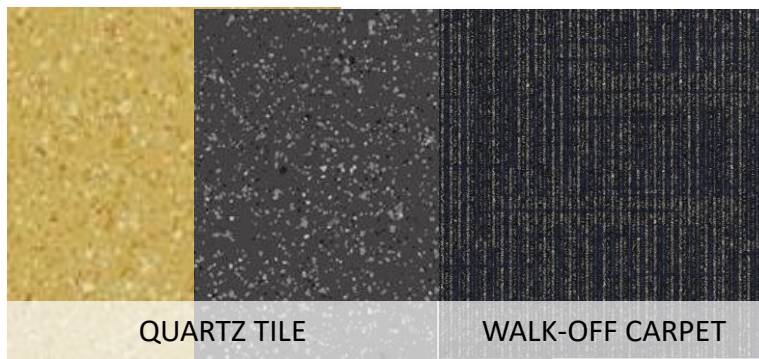
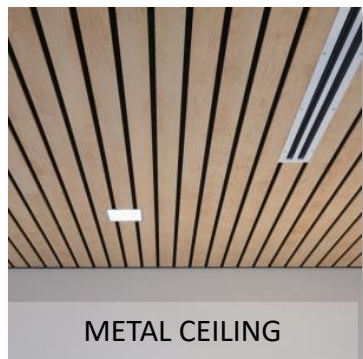
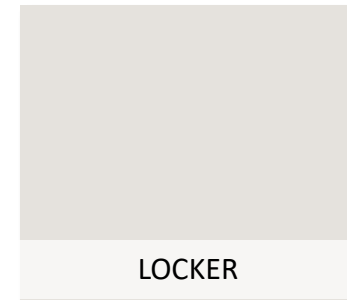
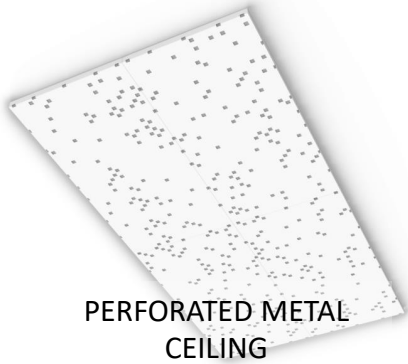
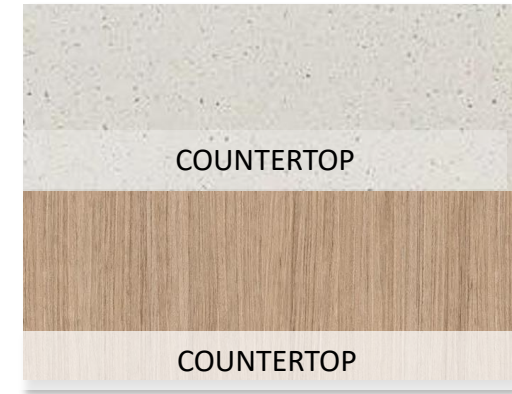
INTERIORS



PROPOSED COLOR SCHEME



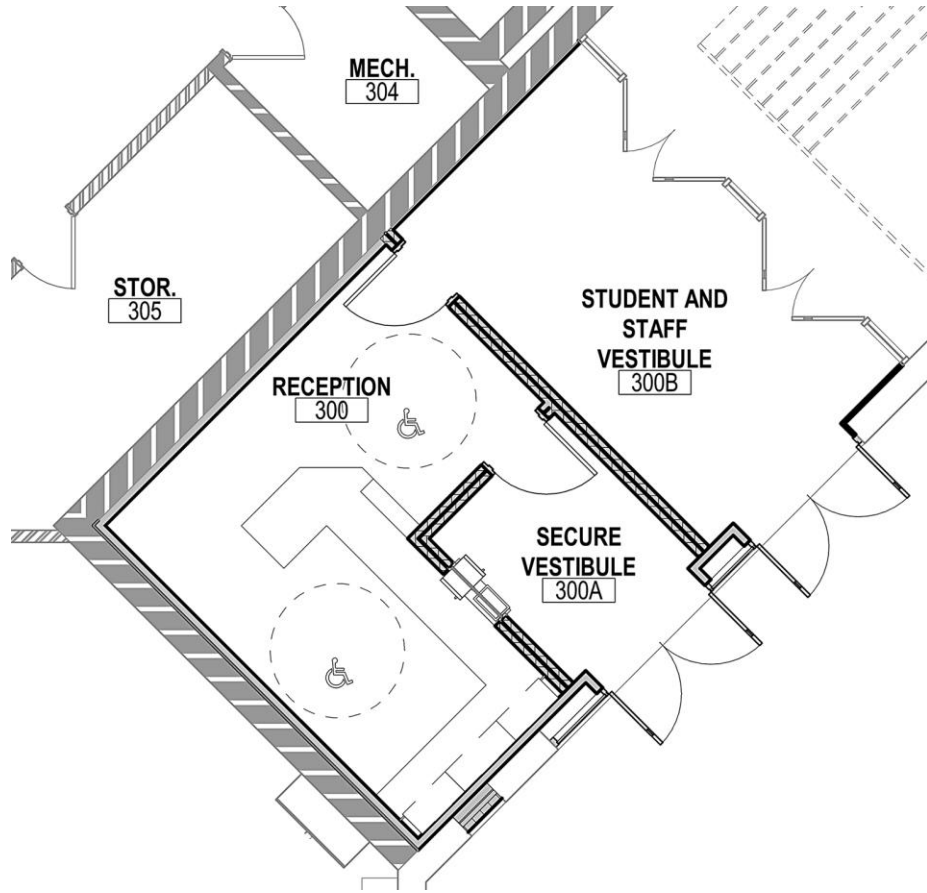
OVERALL FINISH PALETTE



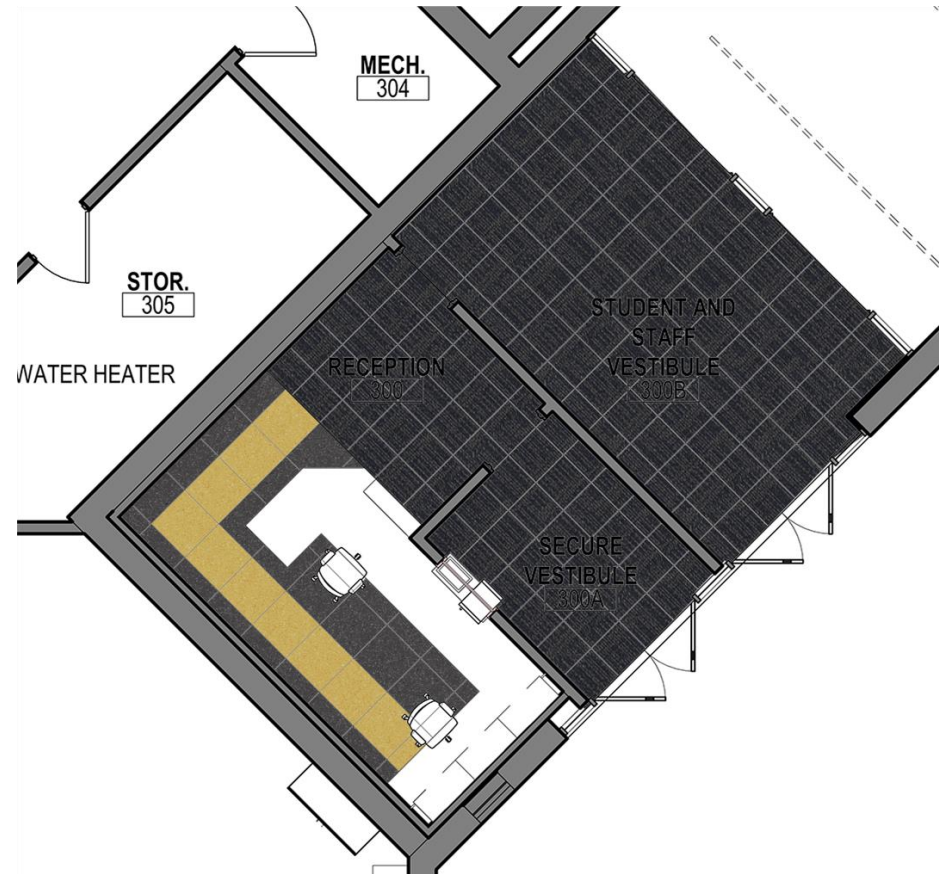
INSPIRATION: VESTIBULE WALLS – GLAZE BLOCKS



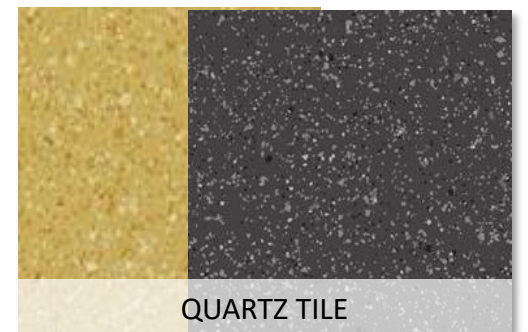
VESTIBULE FINISH PLAN



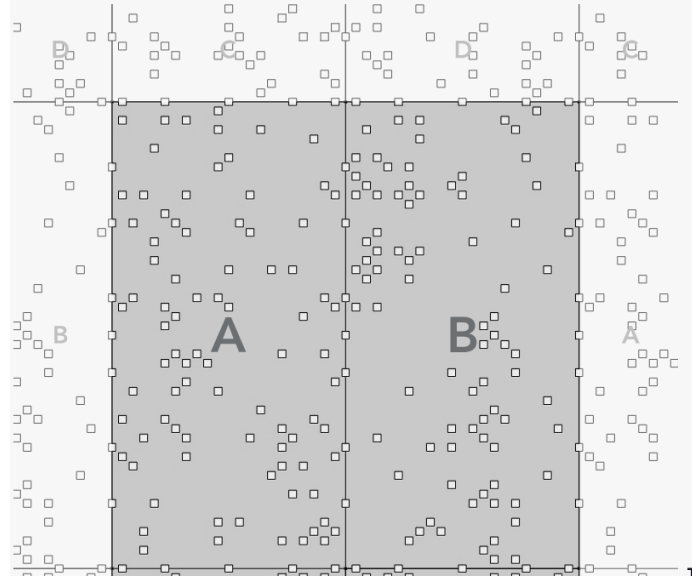
FLOOR PLAN



FINISH PLAN



INSPIRATION: VESTIBULE CEILING



VESTIBULE REFLECTED CEILING PLAN - OPT 1



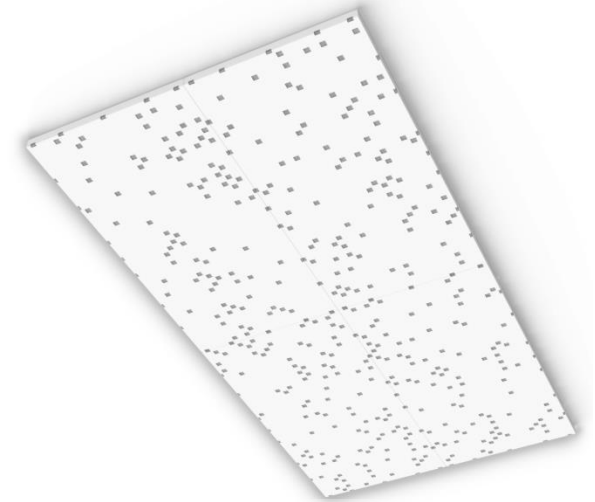
CYLINDER



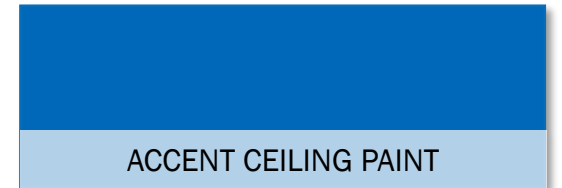
RECESSED LINEAR



FLAT PANEL LED LIGHT



PERFORATED METAL CEILING

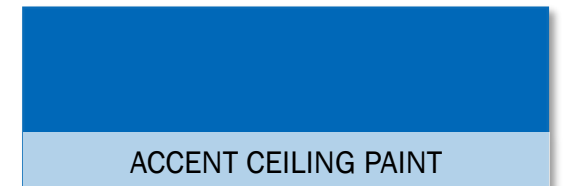
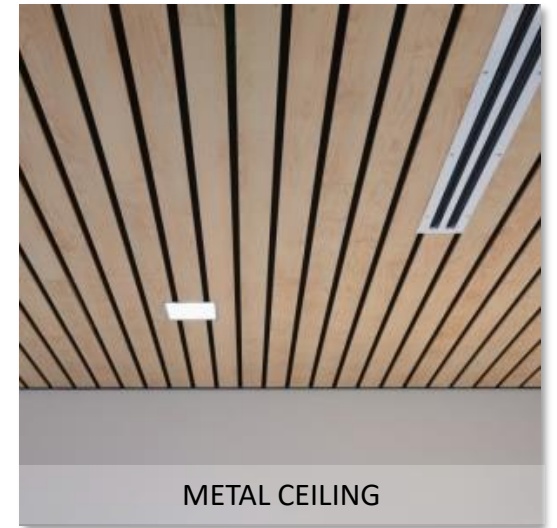
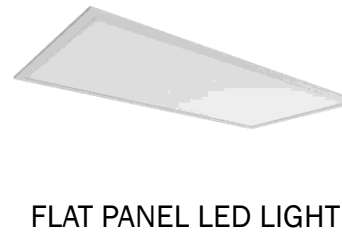
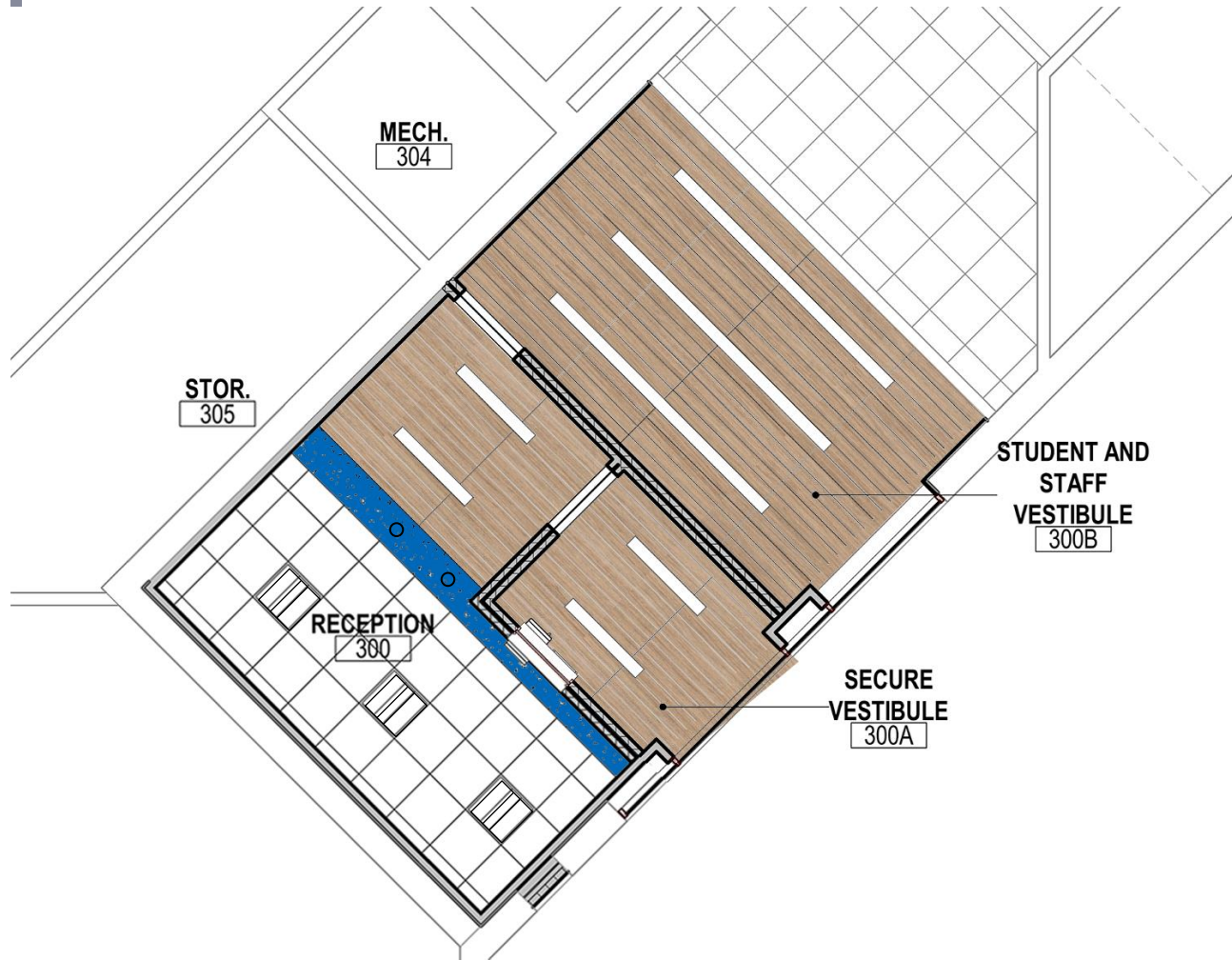


ACCENT CEILING PAINT

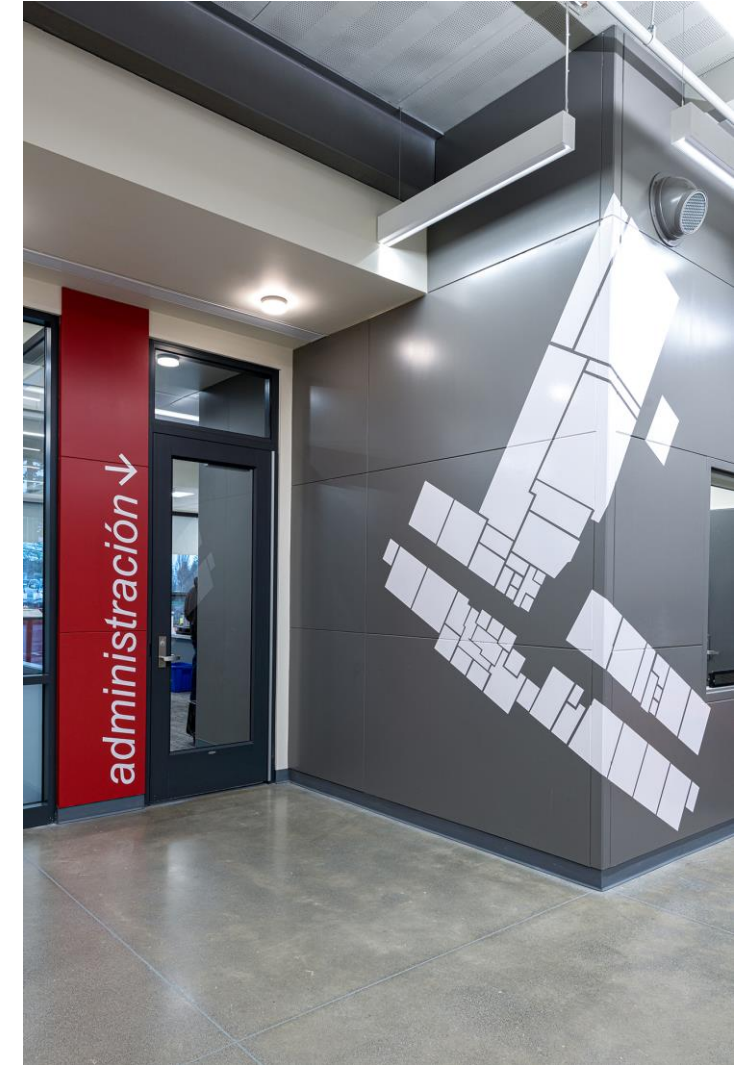


CEILING TILES

VESTIBULE REFLECTED CEILING PLAN - OPT 2

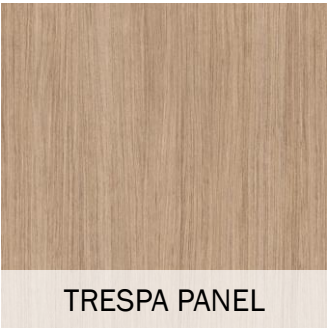


INSPIRATION: VESTIBULE SIGNAGE WALL

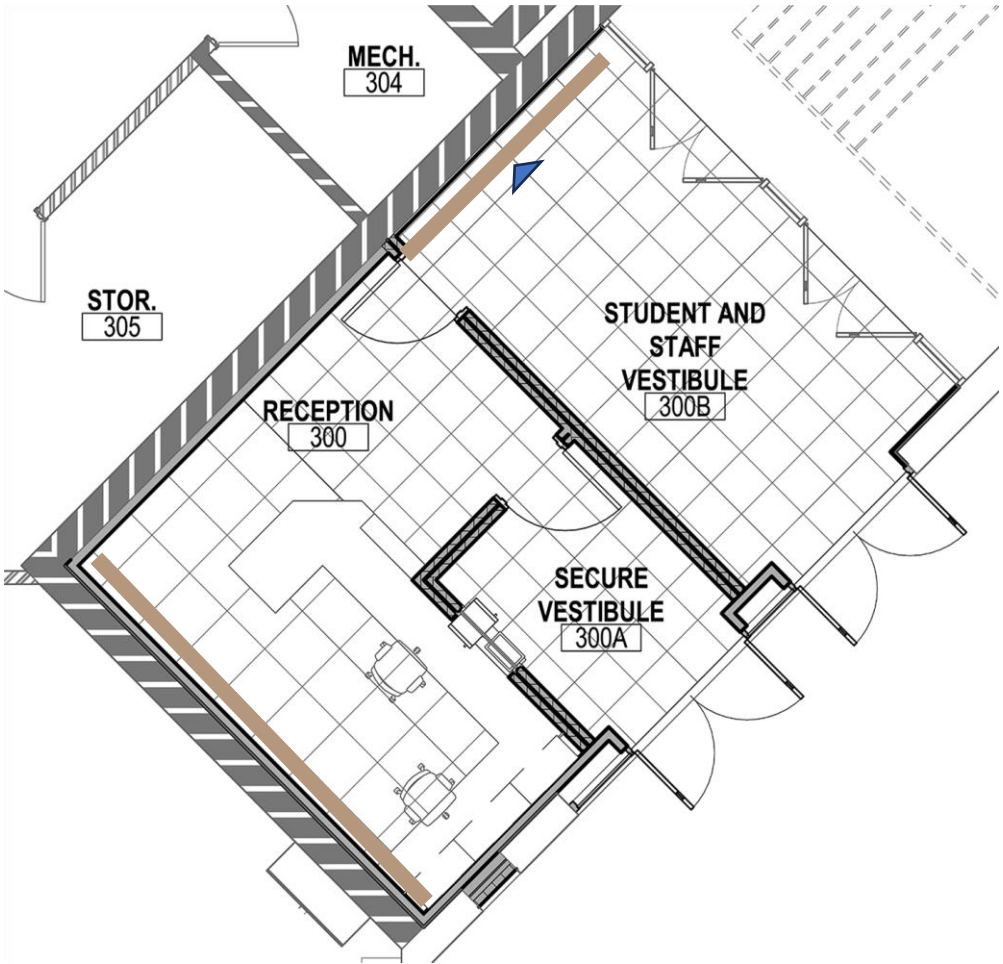
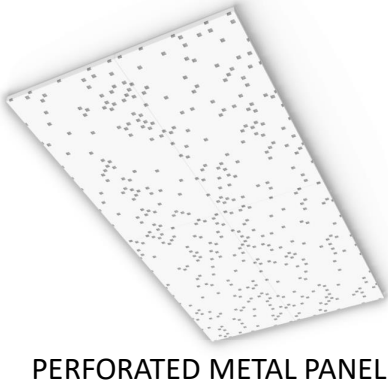


VESTIBULE SIGNAGE WALL

Option 1

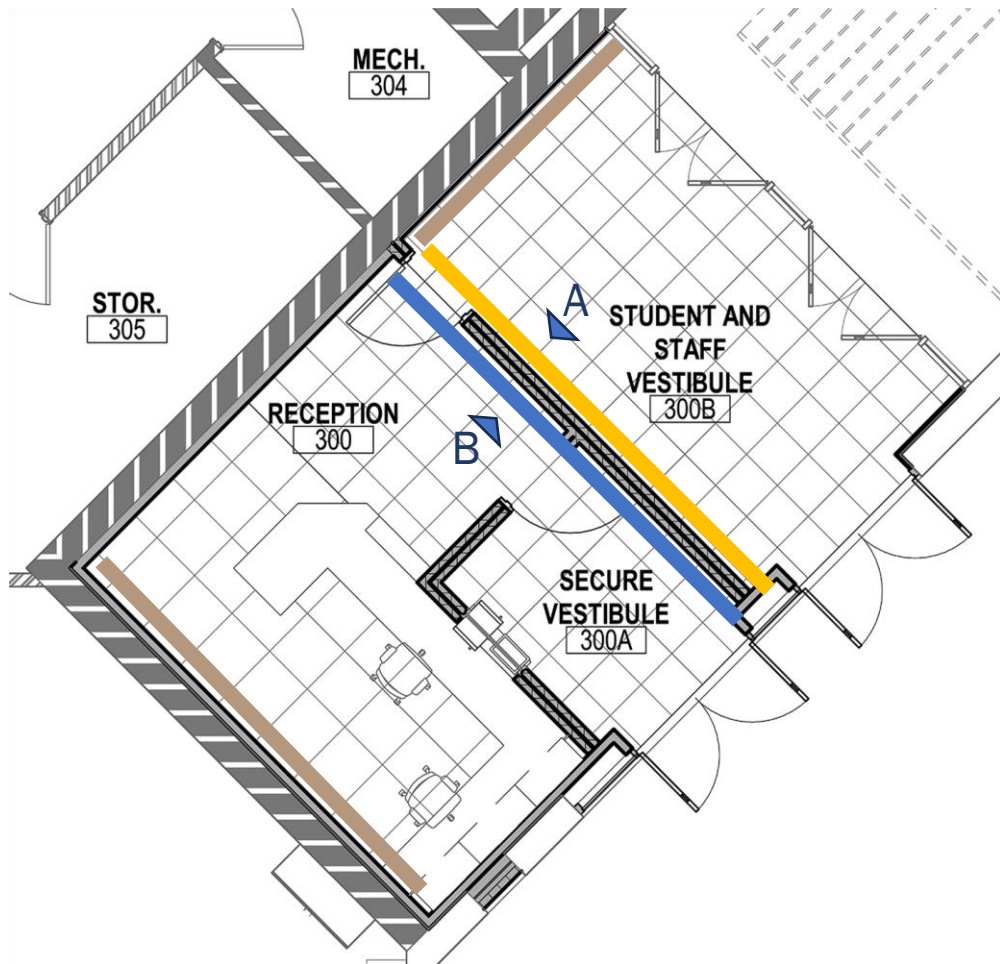


Option 2

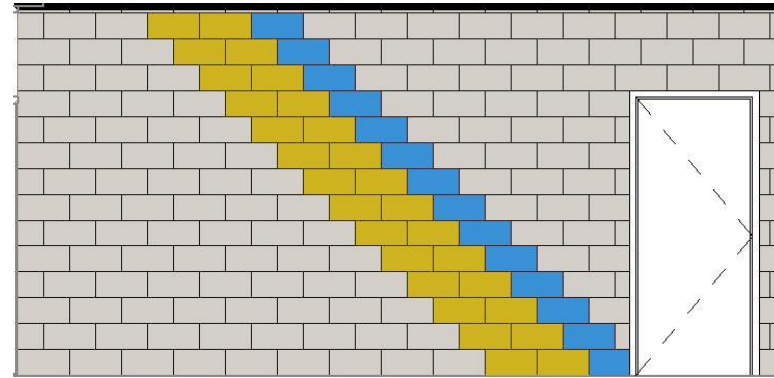


FLOOR PLAN

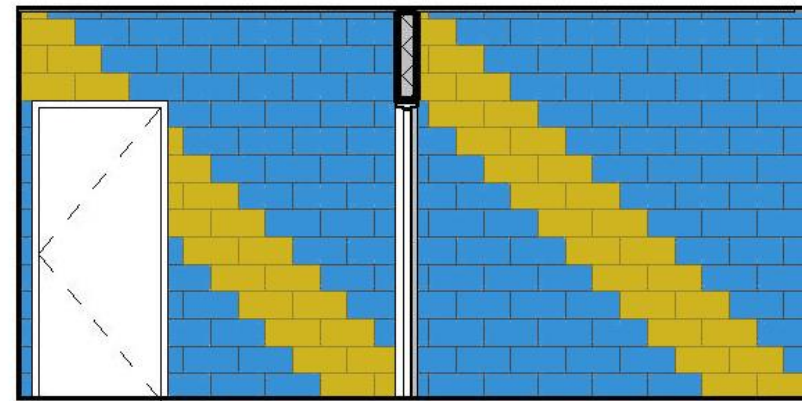
VESTIBULE SIGNAGE WALL



FLOOR PLAN



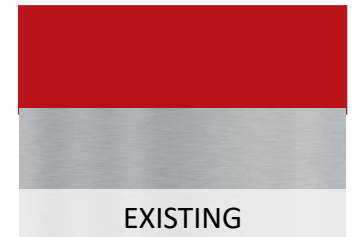
ELEVATION A



ELEVATION B



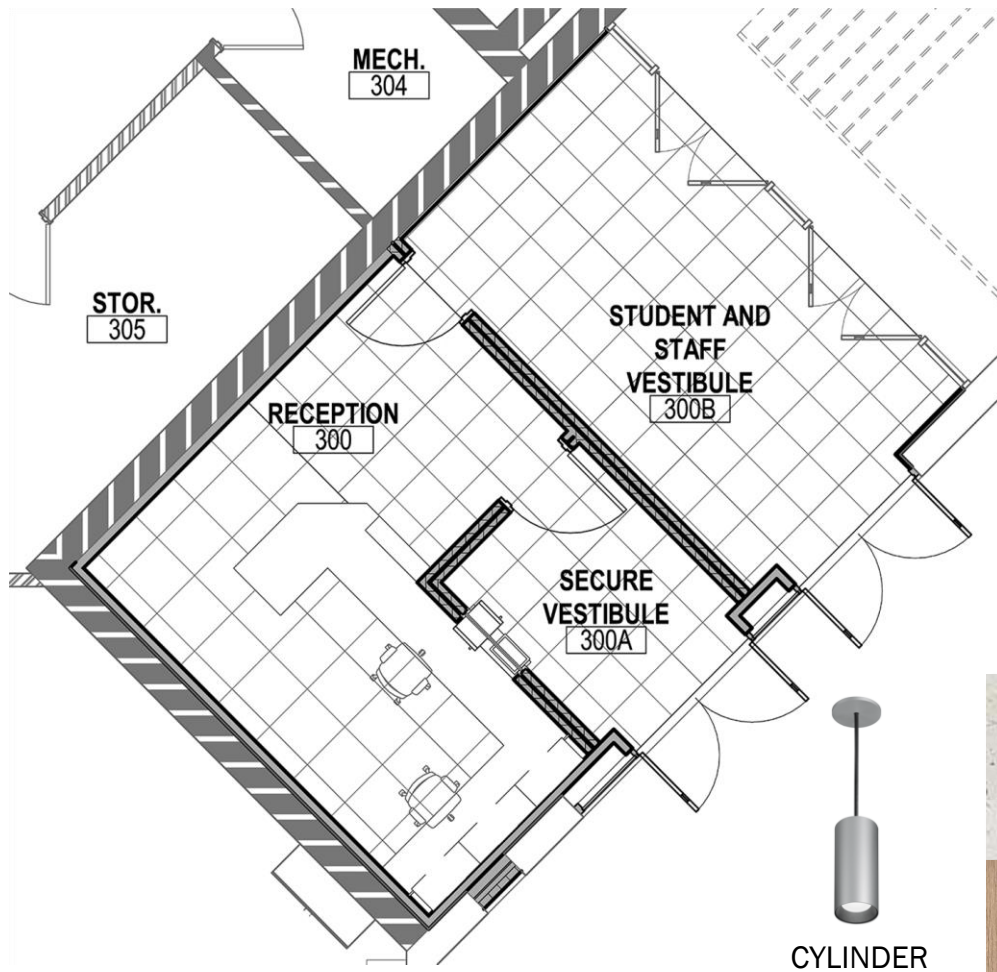
GLAZE BLOCK



EXISTING



VESTIBULE RECEPTION DESK

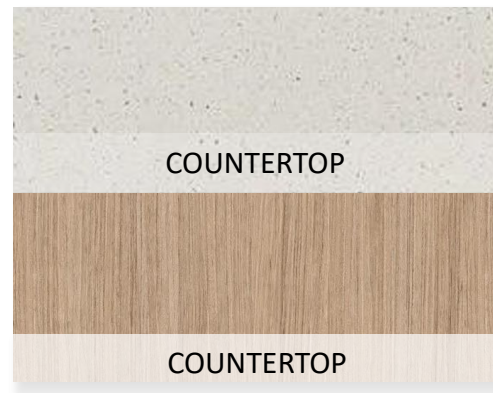


FLOOR PLAN

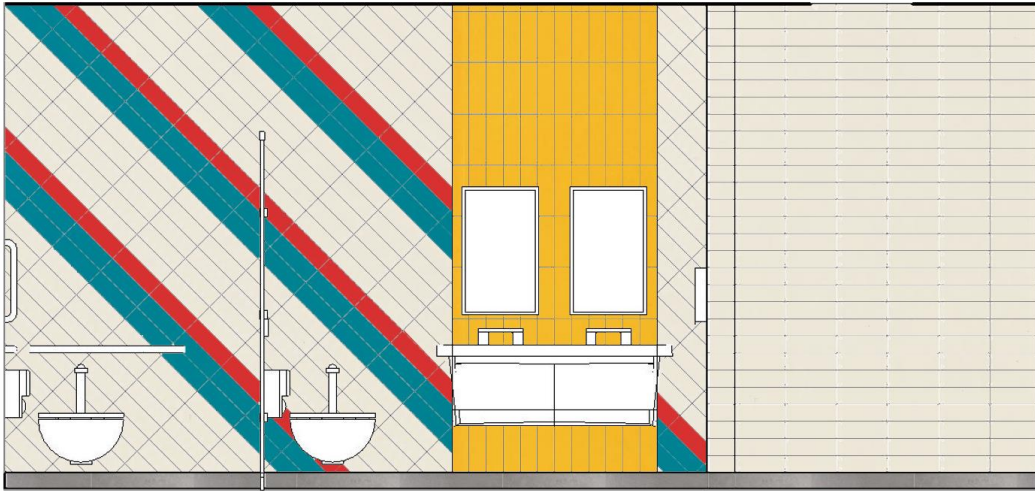


3D REVIEW

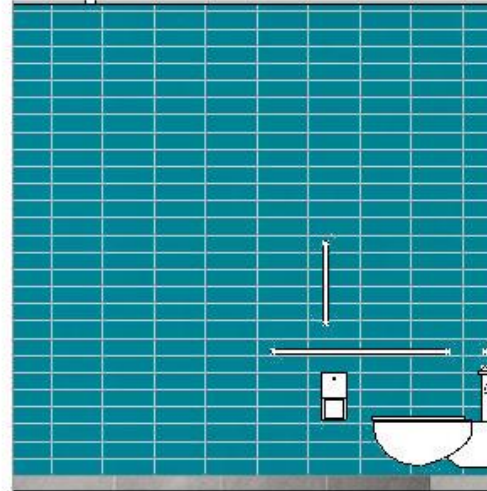
BBF/BB BASE CABINET



GROUP TOILET ROOMS – OPTION 1



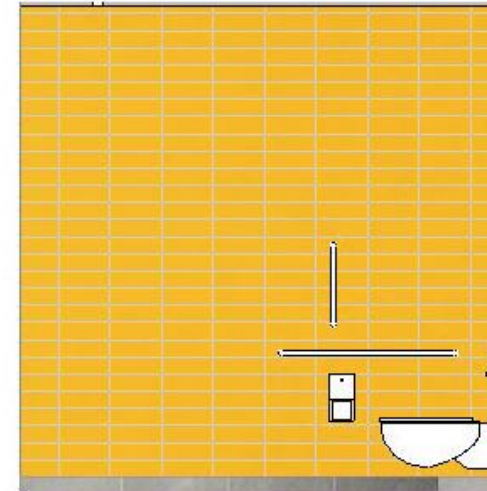
GIRL'S TOILT ROOMS - ELEVATION A



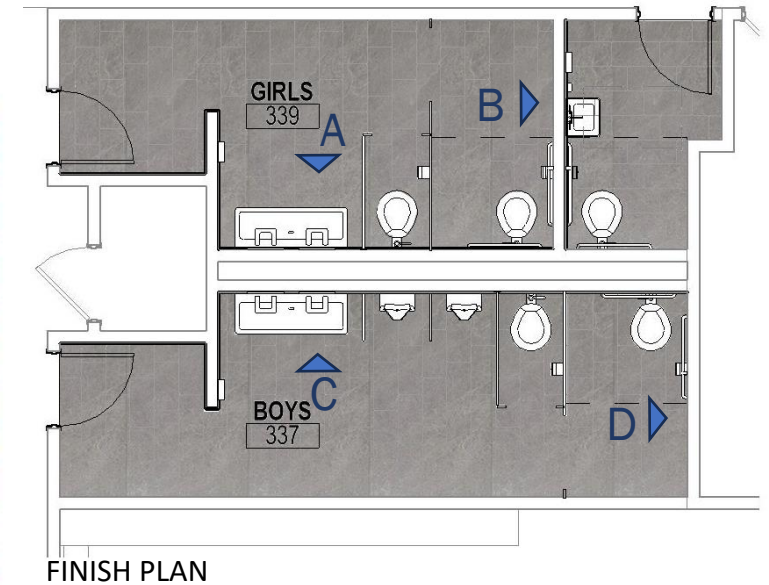
ELEVATION B



BOY'S TOILET ROOMS – ELEVATION C



ELEVATION D



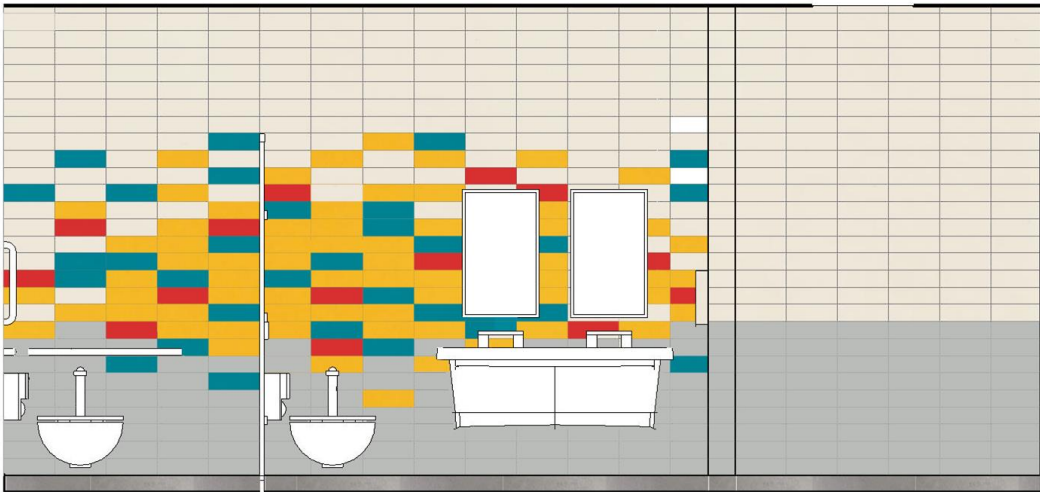
FINISH PLAN



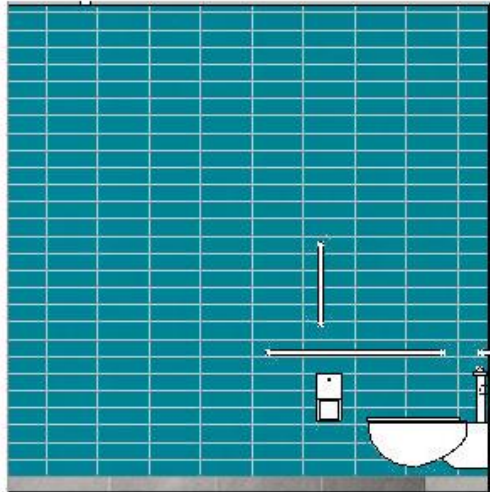
WALL TILE

FLOOR TILE

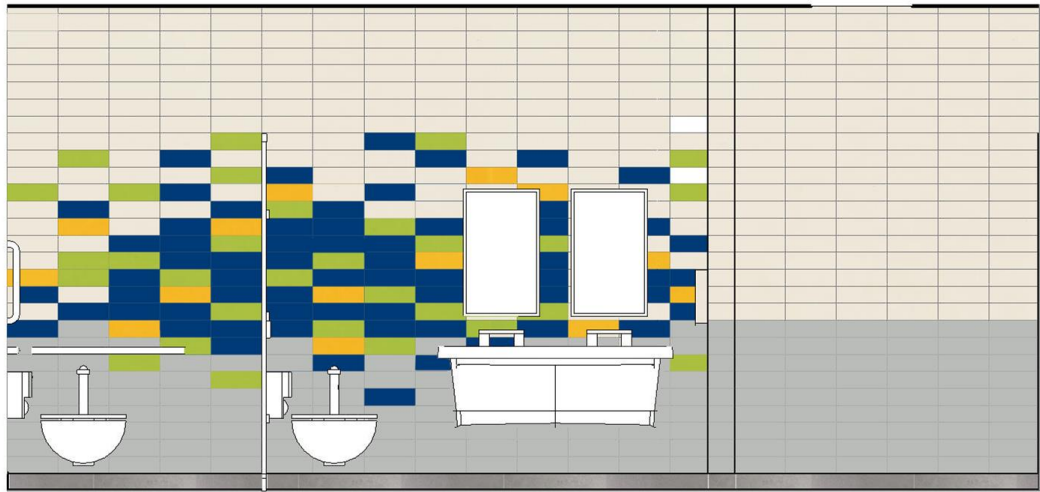
GROUP TOILET ROOMS – OPTION 2



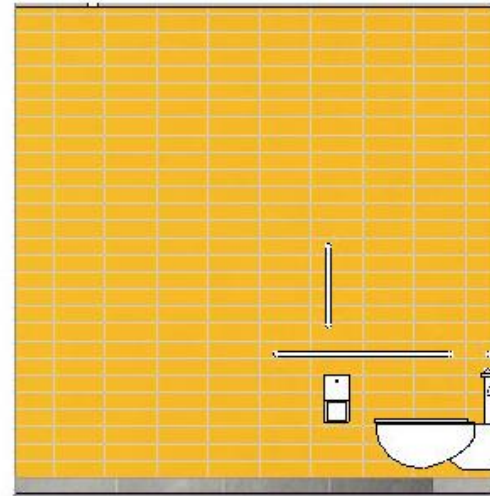
GIRL'S TOILT ROOMS - ELEVATION A



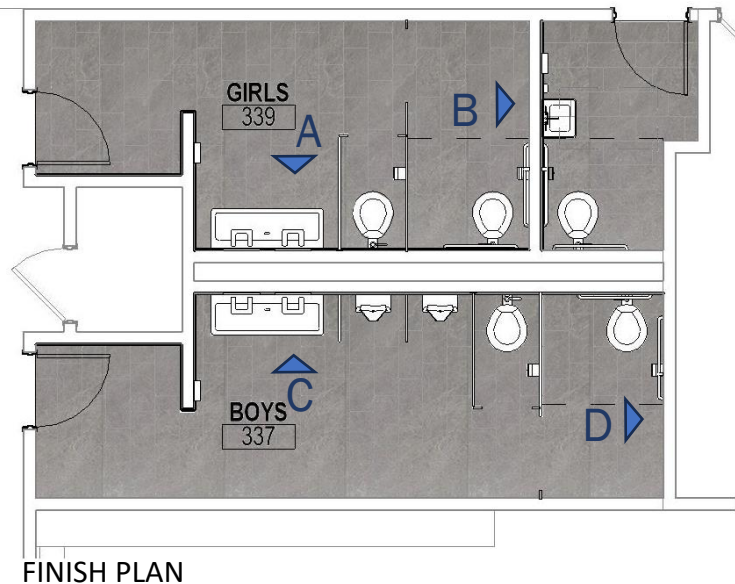
ELEVATION B



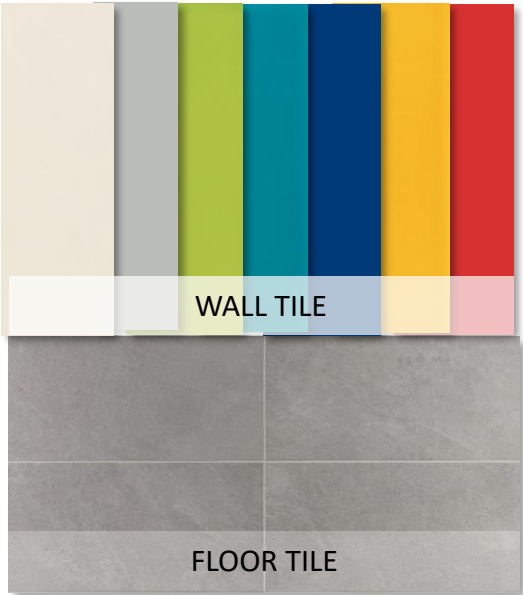
BOY'S TOILET ROOMS – ELEVATION C



ELEVATION D



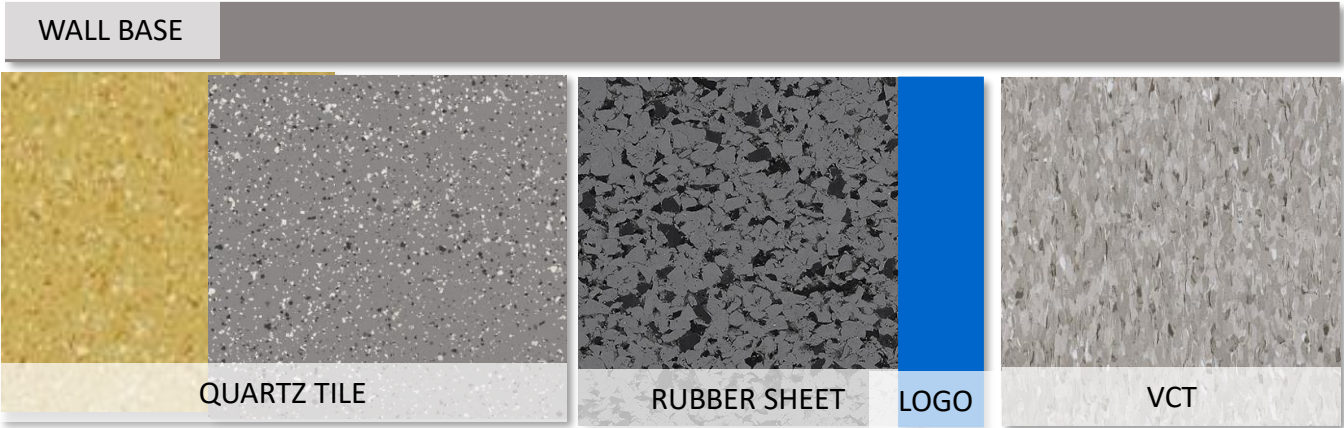
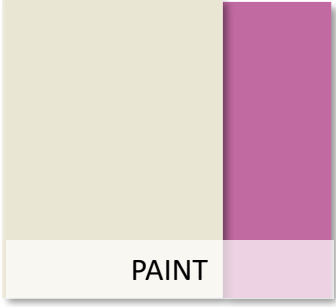
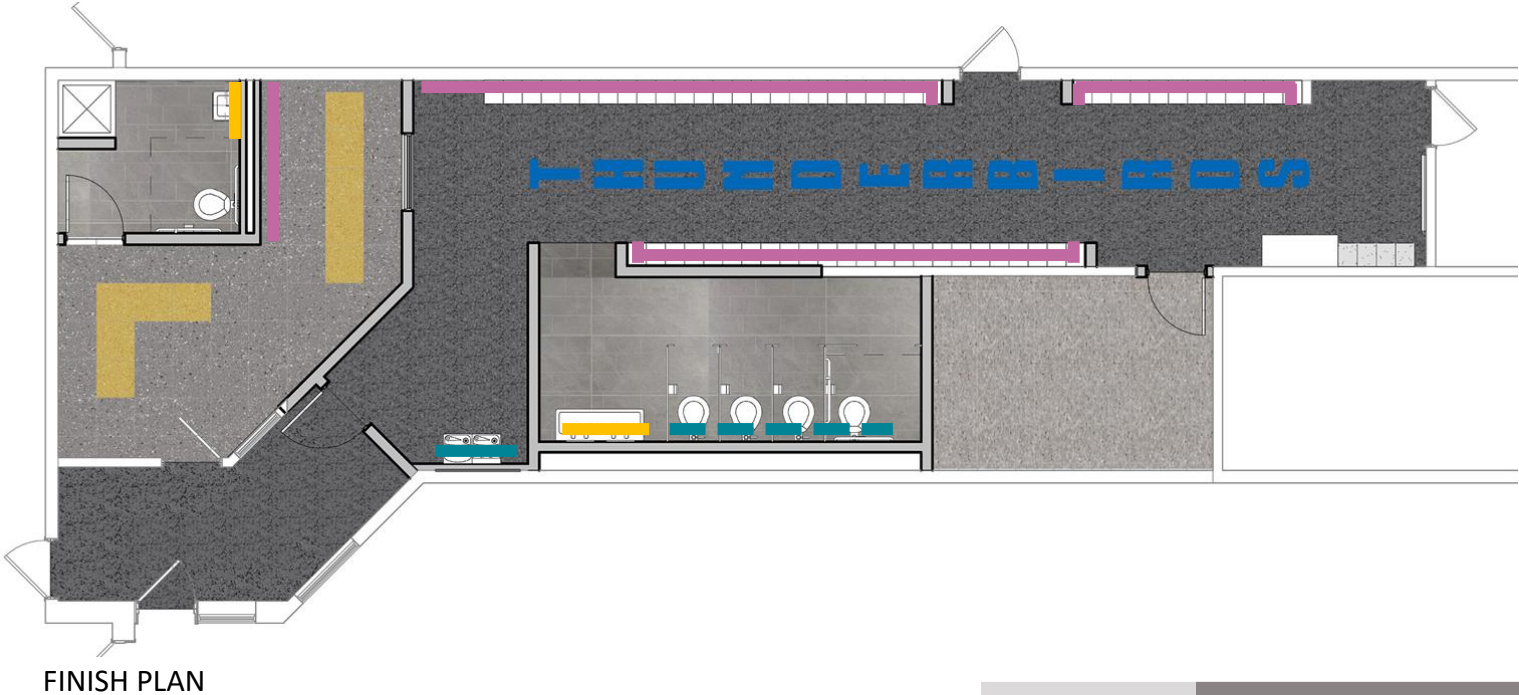
FINISH PLAN



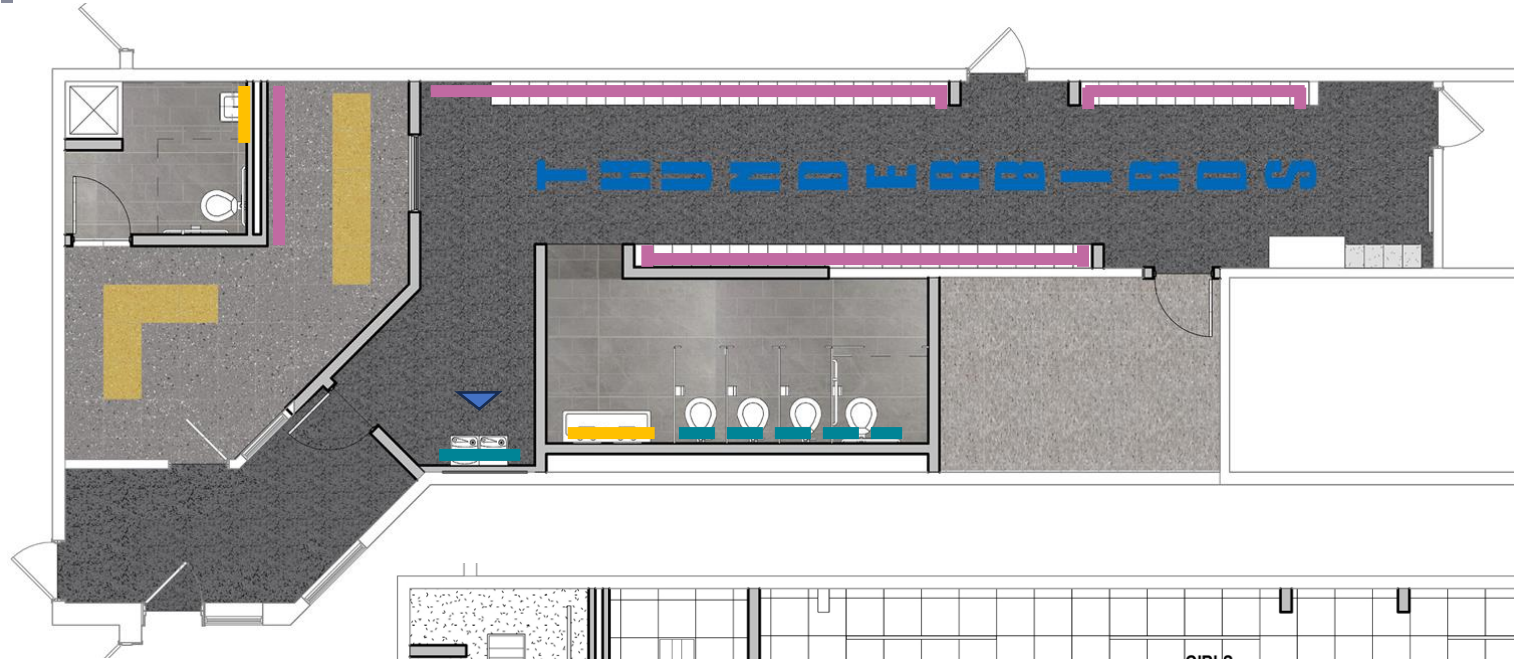
WALL TILE

FLOOR TILE

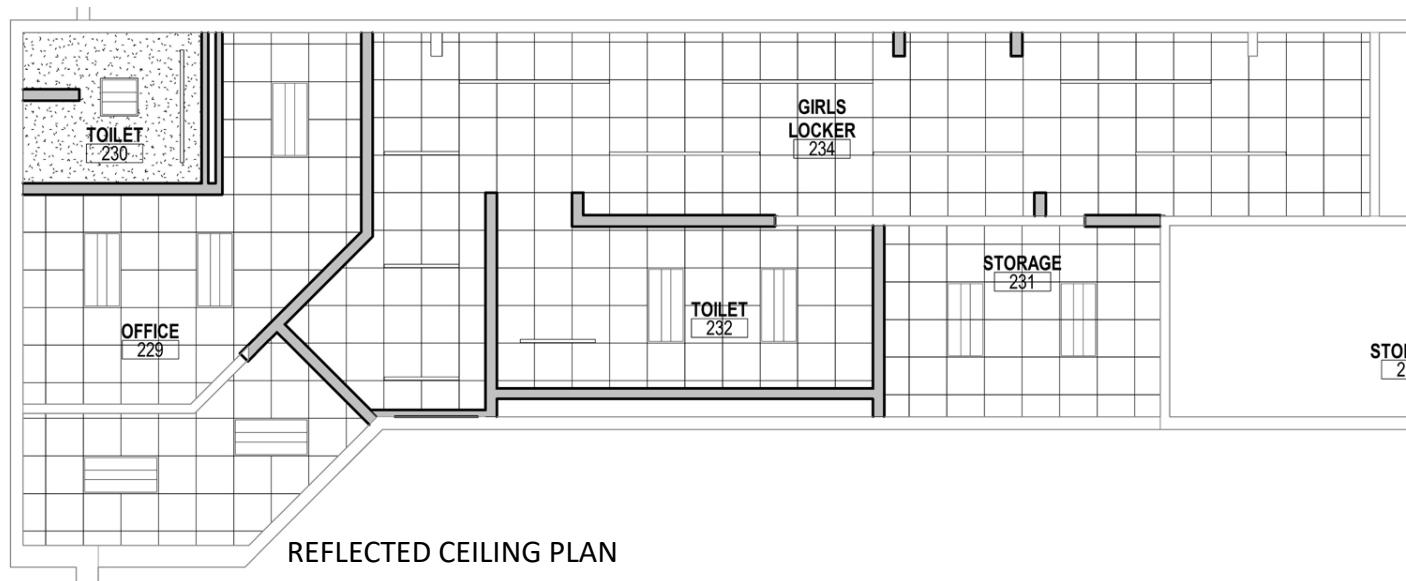
LOCKER ROOM FINISH PLAN – GIRL’S



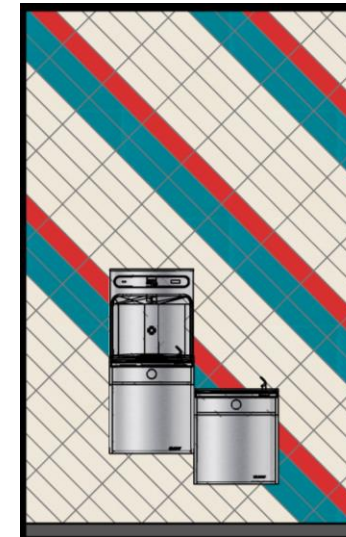
LOCKER ROOM – GIRL'S



FINISH PLAN



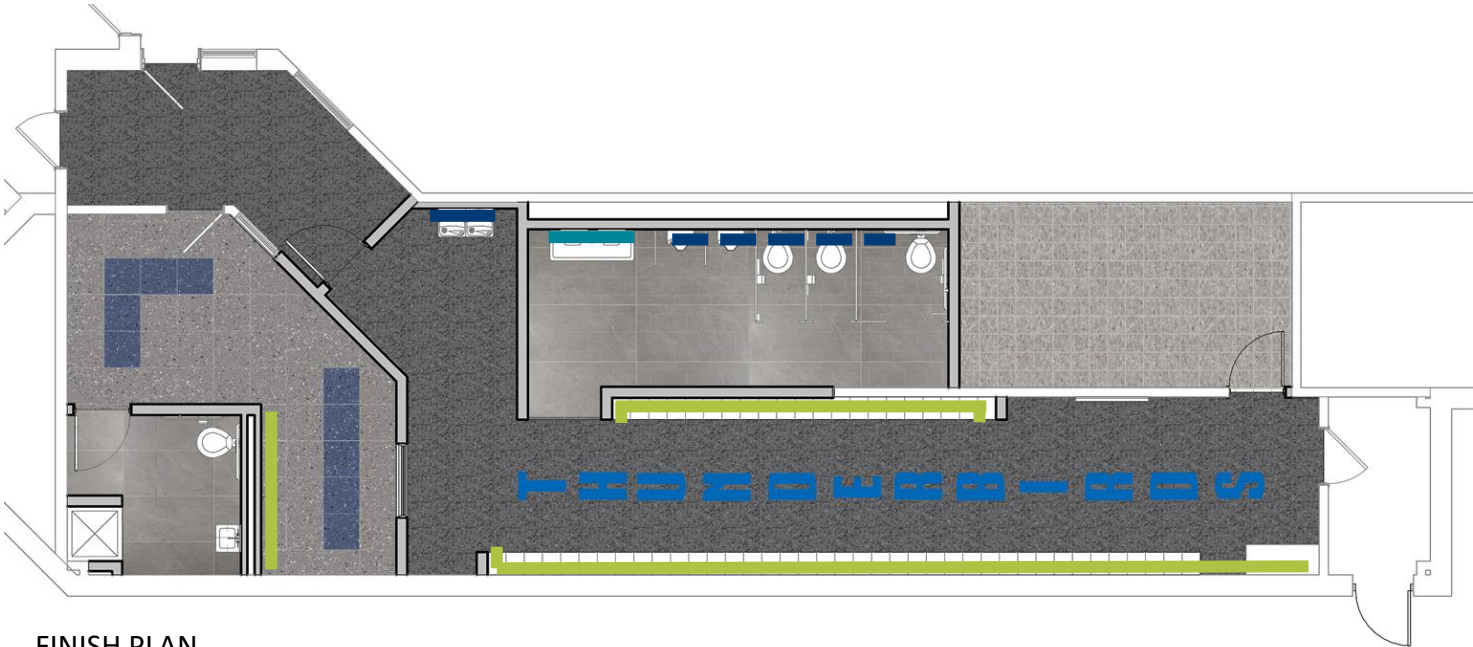
REFLECTED CEILING PLAN



DRINKING FOUNTAIN
ELEVATION



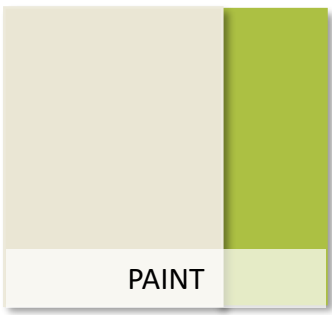
LOCKER ROOM FINISH PLAN – BOY’S



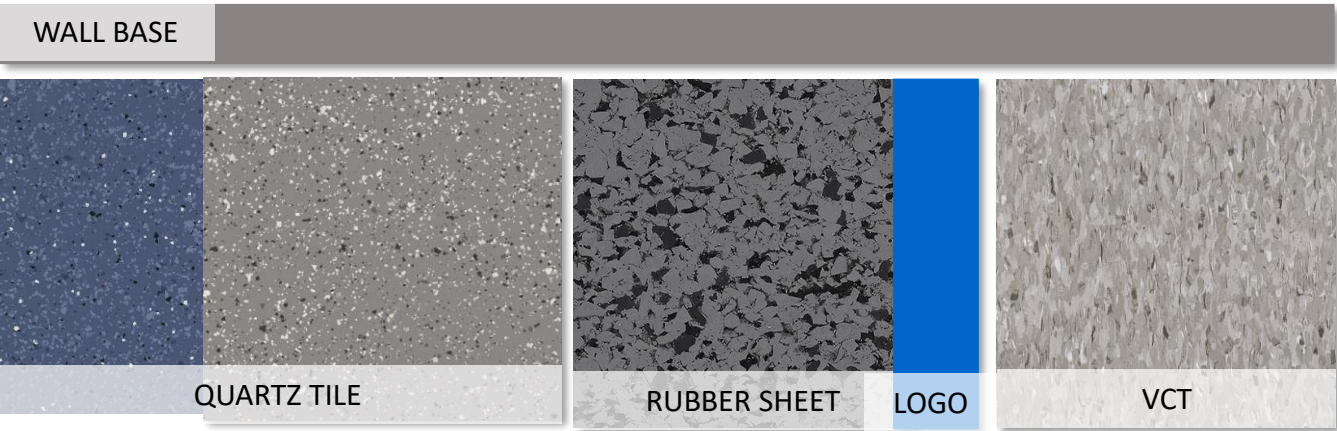
FINISH PLAN



WALL TILE



PAINT



WALL BASE

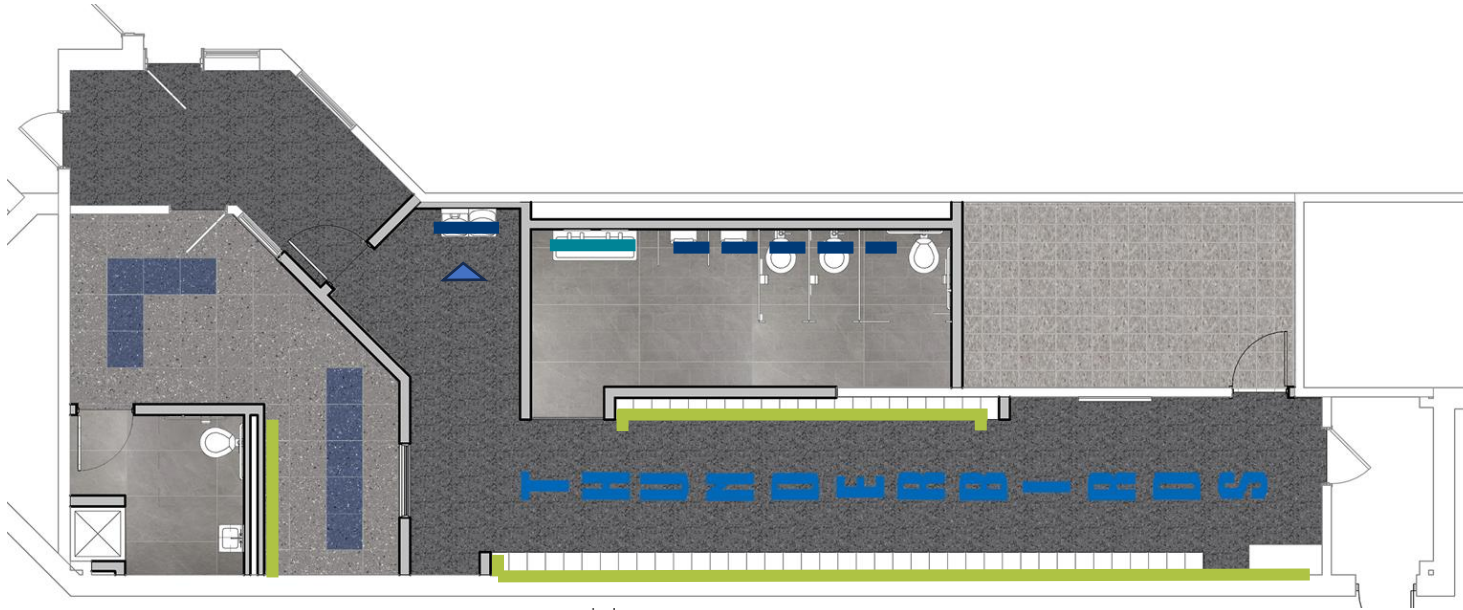
QUARTZ TILE

RUBBER SHEET

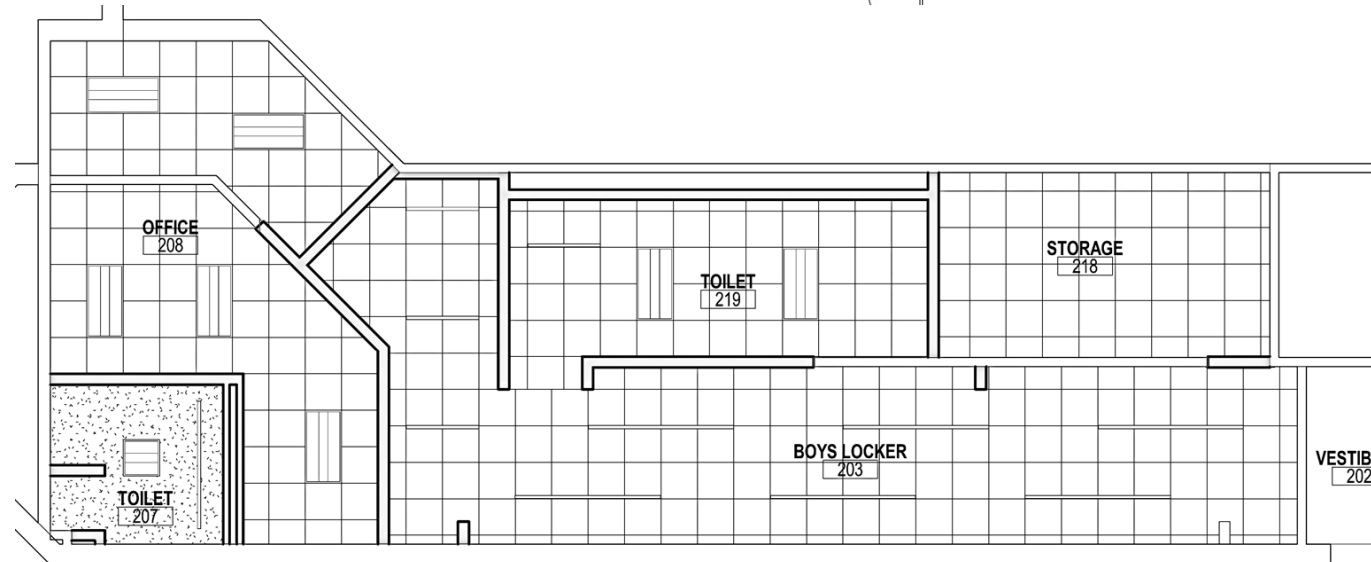
LOGO

VCT

LOCKER ROOM – GIRL'S



FINISH PLAN



REFLECTED CEILING PLAN



DRINKING FOUNTAIN
ELEVATION



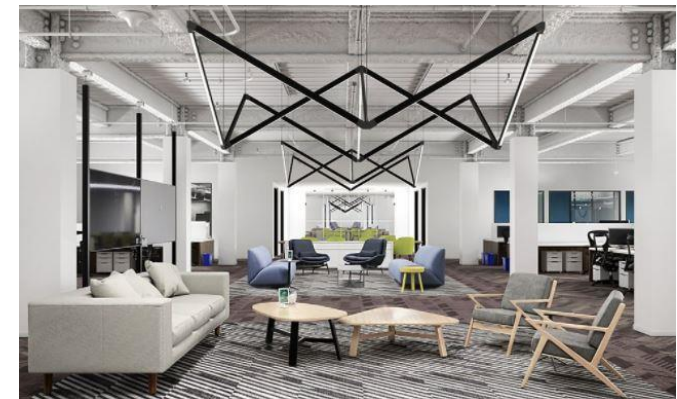
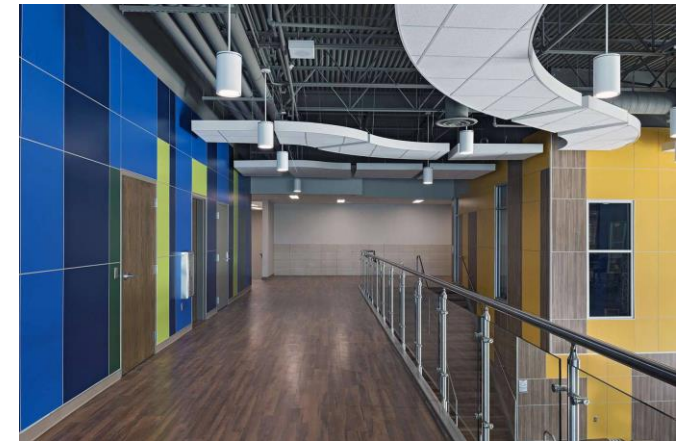
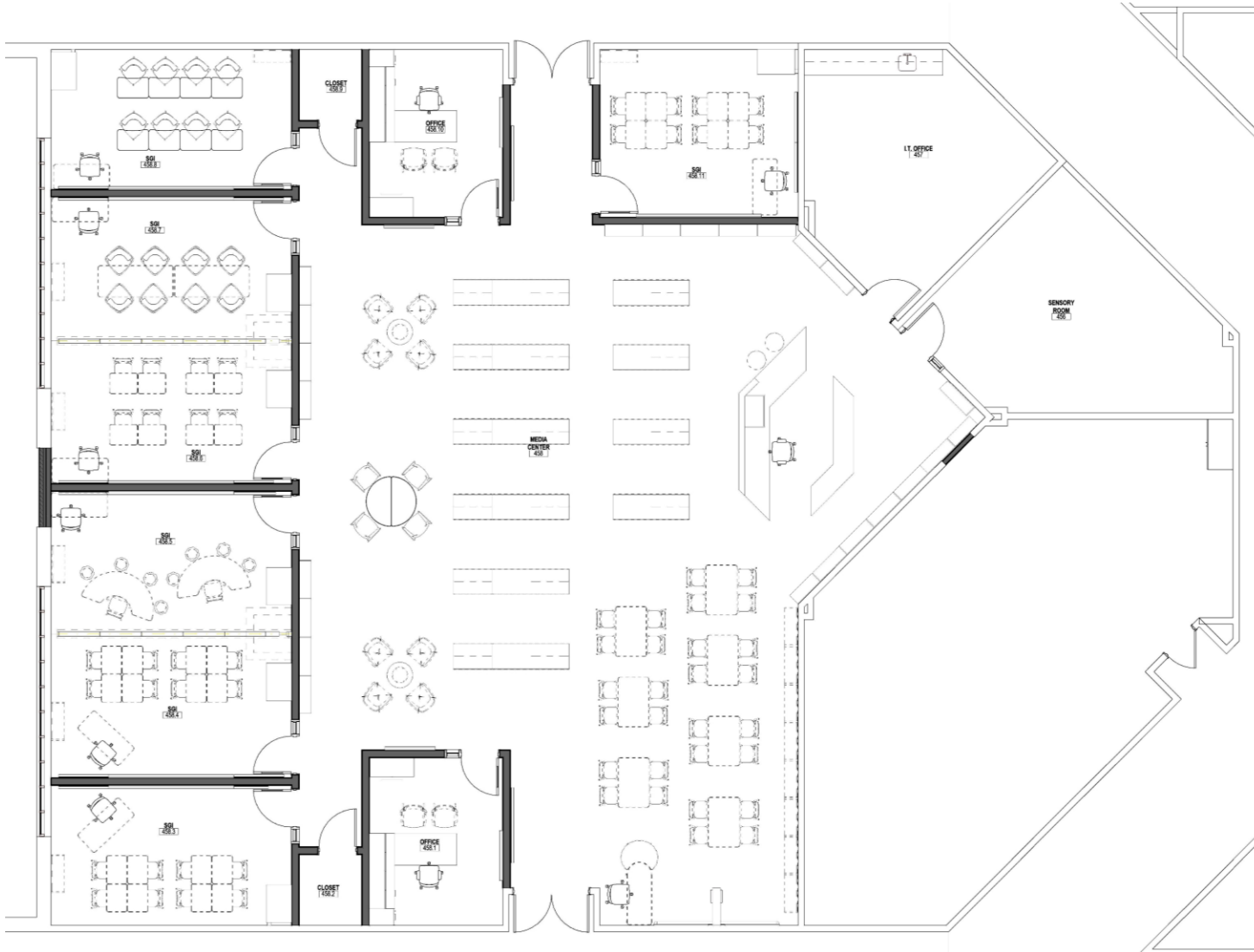
RECESSED LINEAR



FLAT PANEL LED LIGHT



INSPIRATION: MEDIA CENTER



QUESTIONS

PEOPLE. PASSION. PURPOSE.