



# CONSTRUCTION OF GRS-IBS



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- Materials
- Equipment
- Excavation
- Reinforced Soil Foundation
- Block placement
- Geosynthetic placement
- Fill Placement
- Top of wall details
- Placement of Superstructure
- Approach construction
- Rip Rap Installation



# Geosynthetics

## Geogrids



## Geotextiles







# Facing types







# Facing Blocks







# Reinforced fill materials

## Open Graded Fill



## Well Graded Fill







# Equipment





# Equipment







# Equipment







# Tools







# Tools







# Tools



- Level
- String Lines
- Shovels
- Rakes







# Tools



- Rubber Mallet
- Block Tongs





# Excavation







# Excavation







# Reinforced Soil Foundation







# Reinforced Soil Foundation







# Reinforced Soil Foundation







# Block Placement *(First Row)*







# Wall with Leveling Pad







# Block Placement







# Block Placement







# Block Placement (corners)







# Geosynthetic Placement

## Biaxial Geotextile



## Uniaxial Geogrid







# Geosynthetic Placement

No overlaps or tying of geosynthetic







# Geosynthetic Placement

Trim geosynthetic at block facing



Clean finished face





# Geosynthetic Placement



Roll out geosynthetic with strong direction perpendicular to abutment face.

Reinforcement should extend to connecting devices or to a minimum of 75% of block width







# Fill Placement







# Fill Placement







# Fill Compaction







# Fill Compaction







# Fill Compaction

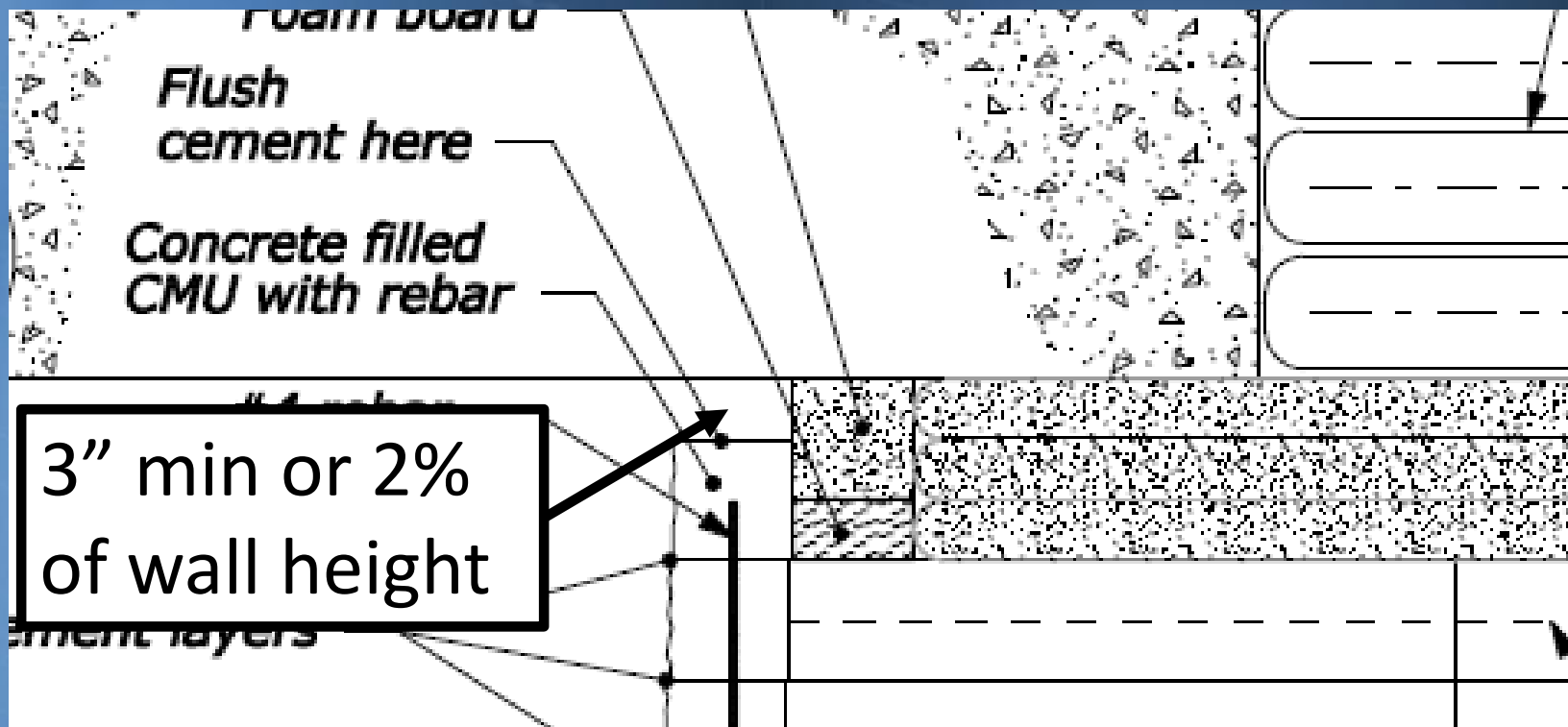






# Top of wall details

- Clear Space: The distance between the top of the wall face and the bottom of the superstructure







# Top of wall details







# Top of wall details







# Top of wall details







# Top of wall details







# Placement of superstructure

- Set Back: The distance between the back of the facing block and the front of the beam seat







# Placement of superstructure







# Placement of superstructure







# Approach Construction







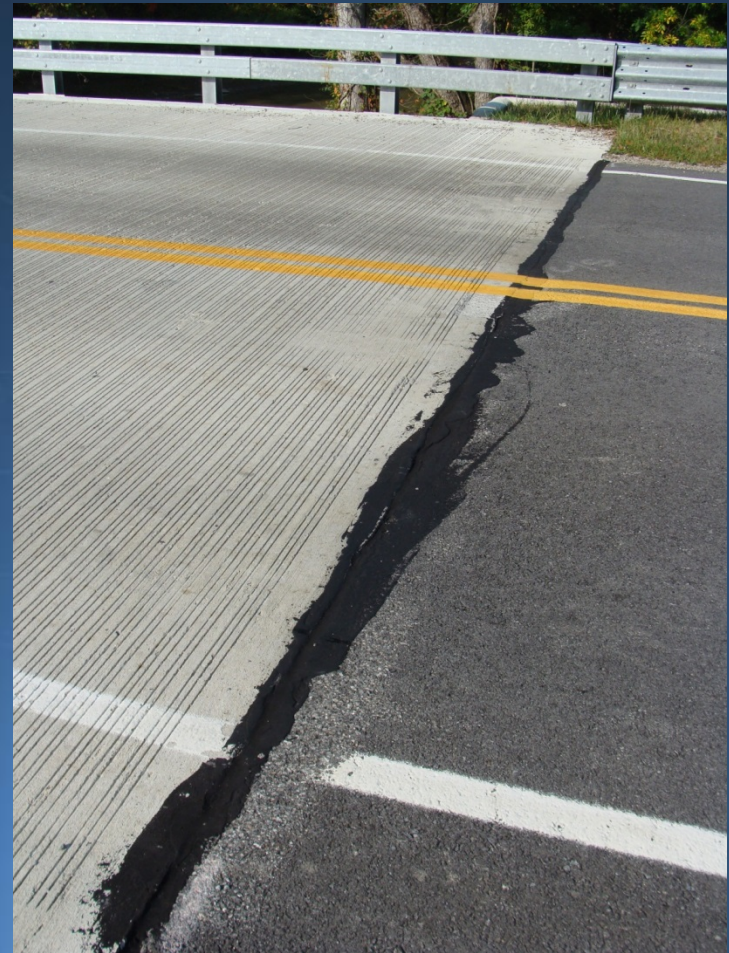
# Approach Construction







# Approach Construction







# Rip Rap Installation







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