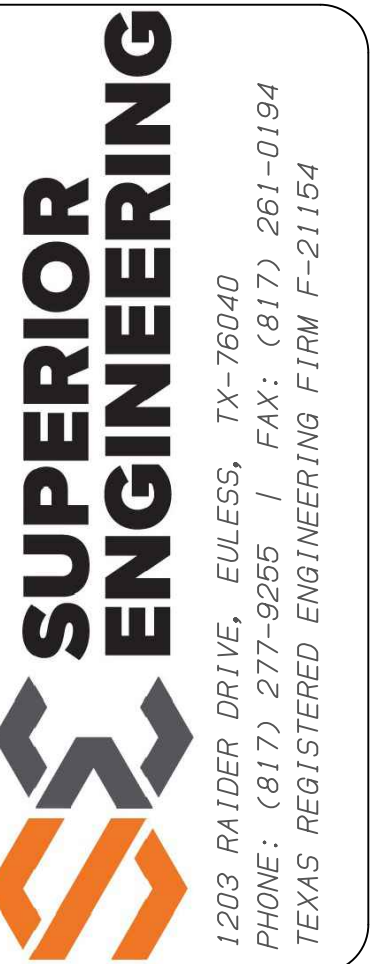


RISD NINTH GRADE CENTERS

2727 S. JOHN KING BLVD.

ROCKWALL, TX 75032



GENERAL NOTES:

1. THE FOLLOWING EFFECTIVE STRENGTH

SOILS INFORMATION OBTAINED FROM THE GEOTECHNICAL EXPLORATION PREPARED BY ALPHA TESTING, REPORT No. G220529, DATED MAY 19, 2022. ONSITE MATERIAL IS PREDOMINATELY HIGH PLASTICITY CLAY.

THE WALLS ARE DESIGNED TO MEET THE FOLLOWING DESIGN PARAMETERS AND MAXIMUM SURCHARGE LOADINGS.

UNIT TYPE : RECON SERIES 50: 24", 39", 60", 66", 72", AND 84" UNITS, WITH A 3.6° WALL BATTER.

DESIGN METHOD : NCMA 2009

LIVE LOAD : 250 PSF (FIRE LANE)

TOE SLOPE : N/A

BACK SLOPE : N/A

SEISMIC : NONE

2. BEARING CAPACITY : 2,000 PSF

3. THE FOUNDATION SOILS AT THE WALL LOCATIONS SHALL BE CAPABLE OF SAFELY SUPPORTING THE MINIMUM APPLIED BEARING PRESSURE AS SHOWN ON THE WALL PROFILES WITHOUT FAILURE OR EXCESIVE SETTLEMENT. LOCAL BEARING CAPACITY SHALL BE CONFIRMED BY THE SITE GEOTECHNICAL ENGINEER AFTER FOUNDATION EXCAVATION AND PRIOR TO THE WALL CONSTRUCTION.

4. TECHNICAL REQUIREMENTS: THE REINFORCED SOIL SHALL BE PLACED IN UNIFORM 8" THICK LIFTS AND WILL BE TESTED BY ON-SITE CONSTRUCTION VERIFICATION ENGINEER.

RECON MODULAR BLOCK RETAINING WALL SYSTEM

	ϕ	C (PSF)	γ (PCF)	SOIL TYPE
RETAINED SOIL	15°	0	120	ON-SITE CLAY
FOUNDATION SOIL	15°	250	120	ON-SITE CLAY

5. BASE LEVELING PAD: THE WALL BASE LEVELING PAD MATERIAL SHALL CONSIST OF A COMPACTED FLEXBASE TxDOT ITEM 247 AS INDICATED IN THE CONSTRUCTION DRAWINGS. COMPACTION AND MOISTURE LIMITS TO BE WITHIN THE LIMITS DICTATED BY STANDARD PROCTOR DENSITY TEST PERFORMED BY GEOTECHNICAL ENGINEERING.

6. DRAINAGE AGGREGATE (GRANULAR FILL): MUST BE CLEAN, FREE-DRAINING GRAVEL, WITH THE FOLLOWING GRADATION:

SIEVE SIZE	PERCENT PASSING
1 in	100
3/4 in	75-100
No. 4	0-60
No. 40	0-50
No. 200	0-5

7. SELECT FILL: N/A

8. GEOGRID: N/A

9. DRAINAGE PIPE: DRAINAGE PIPE SHALL BE PERFORATED OR SLOTTED PVC PIPE MANUFACTURED IN ACCORDANCE WITH ASTM D-3034 OR CORRUGATED HDPE PIPE MANUFACTURED IN ACCORDANCE WITH ASTM D-1248. DRAINAGE PIPE WILL BE COVERED WITH A GEOTEXTILE FILTER FABRIC. INSTALL WEEP HOLES AT EVERY 50 FEET O.C.

10. UNIT ADHESIVE: ADHESIVE SHALL BE A PREMIUM, CONSTRUCTION GRADE SUITABLE FOR CONCRETE AND EXTERIOR APPLICATIONS (CAPS).

MANUFACTURING PROVISIONS:

- ALL BLOCKS SHALL BE RECON SERIES 50 BLOCK AS MANUFACTURED BY SUPERIOR CONCRETE PRODUCTS - EULESS, TX 817-277-9255. NPCA - CERTIFIED PLANT.
- NO OTHER SYSTEM, MANUFACTURER, OR PRODUCT WILL BE ACCEPTED AS AN EQUAL FOR THIS PROJECT.
- THE BLOCK UNIT SHALL CONSIST OF CONCRETE WITH THE AVERAGE 28-DAY COMPRESSIVE STRENGTH OF NO LESS THAN 4000 PSI.
- EXTERIOR DIMENSIONS OF THE FACE SHALL BE 48" BY 16" FOR FULL OR CORNER UNIT, 24" BY 16" FOR HALF UNIT.
- DEPTH OF UNIT SHOULD BE AS PER CONSTRUCTION DRAWINGS AND IS AVAILABLE IN DEPTHS FROM 24".
- BLOCK TEXTURE: NORTH SHORE GRANITE.
- BLOCK COLOR: NATURAL - UNSTAINED.

Project: NINTH GRADE CENTERS
ROCKWALL, TX
Title: GENERAL NOTES

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Drawn by: SS

Scale: N.T.S

Date: 2/1/2023

Job No: 4945

Sheet No: RW-01

FINAL
THIS DRAWING REFLECTS THE "AS-BUILT" STATUS OF THE PROJECT DOCUMENTS.



RISD NINTH GRADE CENTERS

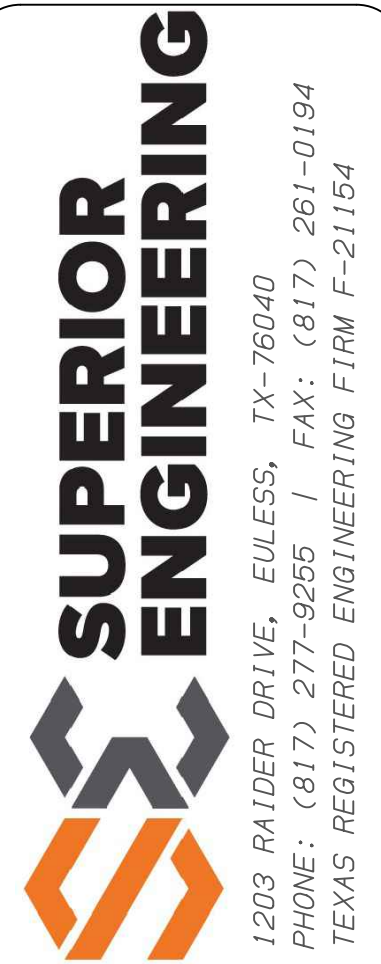
2727 S. JOHN KING BLVD.

ROCKWALL, TX 75032

GENERAL NOTES: **QUALITY ASSURANCE PROVISIONS**

1. MULTIPLE CONTRACTORS (FENCE, WALL, GRADING, ETC) MAY BE USED TO COMPLETE THE OVERALL PROJECT AS SHOWN ON THESE SHOP DRAWINGS. PLANS DO NOT DEFINE SCOPE OF WORK FOR INDIVIDUAL ENTITIES. SEE CONTRACT DOCUMENTS FOR SPECIFIC DETAILS ON THE SCOPE OF WORK THAT WILL BE PROVIDED BY ALL PARTIES.
2. WALL CONSTRUCTION SHALL BE SUPERVISED BY QUALIFIED ENGINEER OR TECHNICIAN TO VERIFY FIELD AND SITE SOIL CONDITION. IF THIS WORK NOT PERFORMED BY THE SITE GEOTECHNICAL ENGINEER, A QUALIFIED GEOTECHNICAL ENGINEER/TECHNICAN SHALL BE CONSULTED IN THOSE MATTERS PERTAINING THE SOIL CONDITIONS AND THE WALL PERFORMANCE.
3. THE FOUNDATION SOILS AT THE BASE OF THE WALLS SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER. ANY UNSUITABLE SOILS OR IMPROPERLY COMPACTED EMBANKMENT MATERIAL SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER PRIOR TO WALL CONSTRUCTION TO PROVIDE ADEQUATE BEARING CAPACITY AND MINIMIZE SETTLEMENT. (e.g. CONE PENETROMETER TEST)
4. ALL WALL EXCAVATION AND RETAINED SOIL SHALL BE INSPECTED FOR GROUNDWATER CONDITIONS. ANY ADDITIONAL DRAINAGE PROVISION REQUIRED IN THE FIELD SHALL BE INCORPORATED INTO THE WALL CONSTRUCTION AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
5. WALL BACKFILL MATERIAL IN THE RETAINED ZONE SHALL BE TESTED BY THE (INSPECTING) ENGINEER, MEETING THE MINIMUM REQUIREMENTS OF THE APPROVED DESIGN PLANS OR SPECIFICATIONS.
6. ALL SOIL BACKFILL SHALL BE TESTED BY THE ENGINEER FOR MOISTURE, DENSITY AND COMPACTION PERIODICALLY (EVERY 2' VERTICALLY, 100'-200' C/C) MEETING THE MINIMUM REQUIREMENTS OF THE APPROVED DESIGN PLANS OR SPECIFICATIONS.
7. ALL WALL ELEVATIONS, GRADES AND BACKSLOPE CONDITIONS SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD FOR CONFORMANCE WITH APPROVED DESIGN PLANS. ANY REVISIONS TO THE STRUCTURE GEOMETRY OR DESIGN CRITERIA SHALL REQUIRE DESIGN, MODIFICATIONS PRIOR TO PROCEEDING WITH CONSTRUCTION.
8. DESIGN OF THE RETAINING WALL IS CUSTOMIZED FOR THE USE AND PURPOSE OF THE PROPERTY AND THE EXISTING ADJACENT PROPERTIES AND PRESENT CIRCUMSTANCES.

SHEET INDEX	
PAGE	DESCRIPTION
1	GENERAL NOTES
2	QUALITY ASSURANCE NOTES
3	RETAINING WALL KEY MAP
4-5	RW ELEVATION
6	CROSS SECTION
7	CIP COLLAR
8	RW DETAILS



Project: **NINTH GRADE CENTERS
ROCKWALL, TX**
Title: **QUALITY ASSURANCE
NOTES**

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Scale: **N.T.S**

Date: **2/1/2023**

Job No: **4945**

Sheet No: **RW-02**

FINAL
THIS DRAWING REFLECTS THE "AS-BUILT" STATUS OF THE PROJECT DOCUMENTS.



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Drawn by: **SS**

Scale: **1" = 30'**

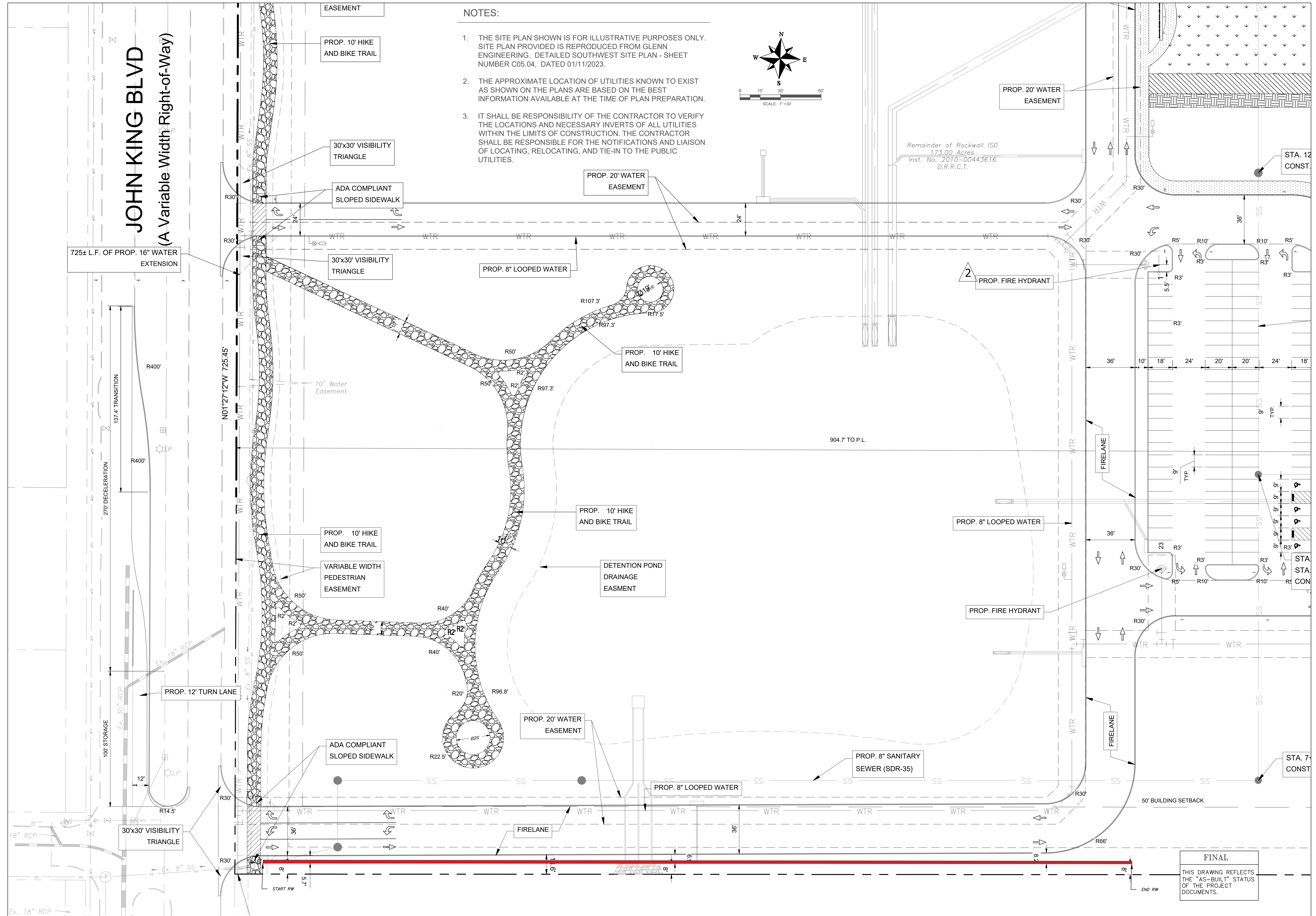
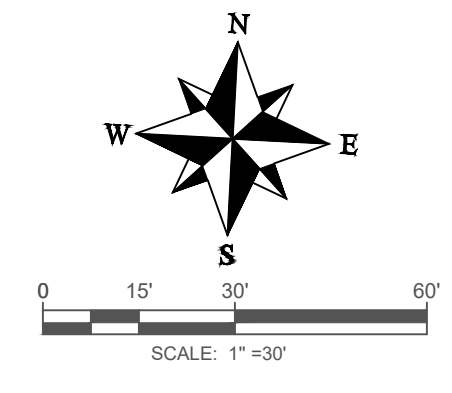
Date: **2/1/2023**

Job No: **4945**

Sheet No: **RW-03**



- NOTES:**
1. THE SITE PLAN SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY. SITE PLAN PROVIDED IS REPRODUCED FROM GLENN ENGINEERING. DETAILED SOUTHWEST SITE PLAN - SHEET NUMBER C05.04, DATED 01/11/2023.
 2. THE APPROXIMATE LOCATION OF UTILITIES KNOWN TO EXIST AS SHOWN ON THE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION.
 3. IT SHALL BE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS AND NECESSARY INVERTS OF ALL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATIONS AND LIAISON OF LOCATING, RELOCATING, AND TIE-IN TO THE PUBLIC UTILITIES.

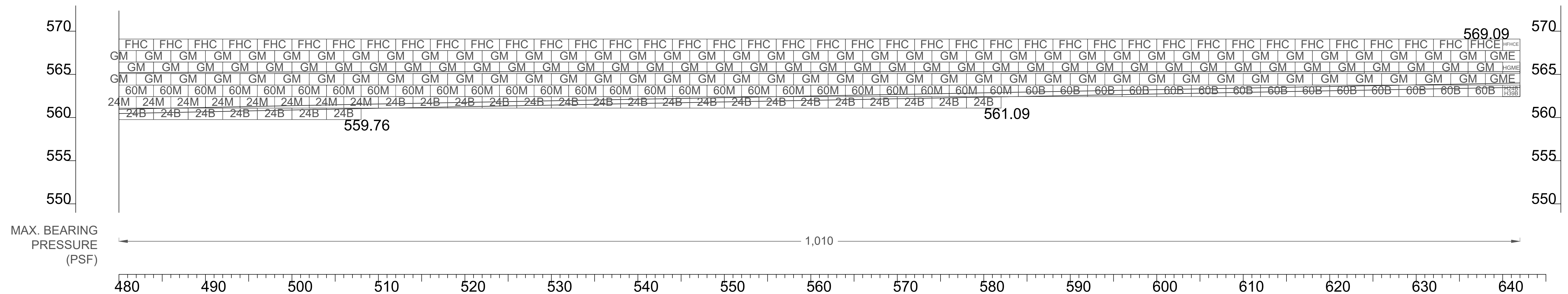
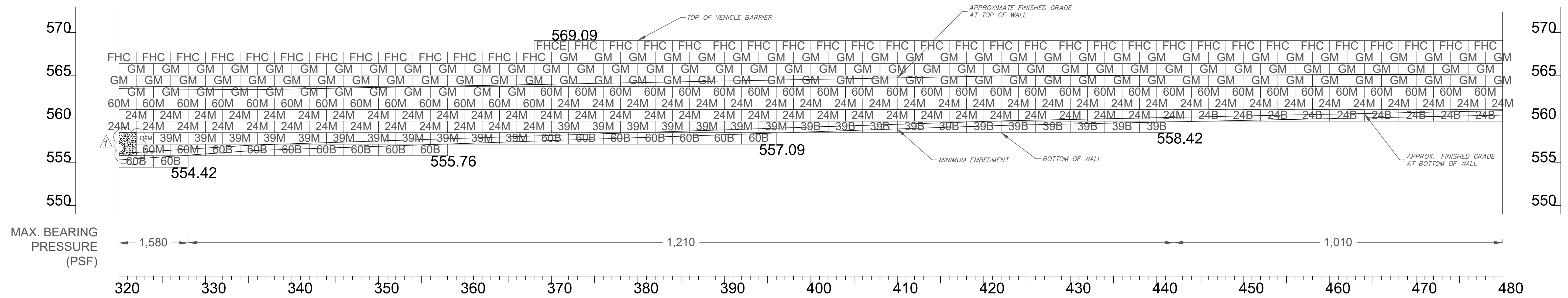


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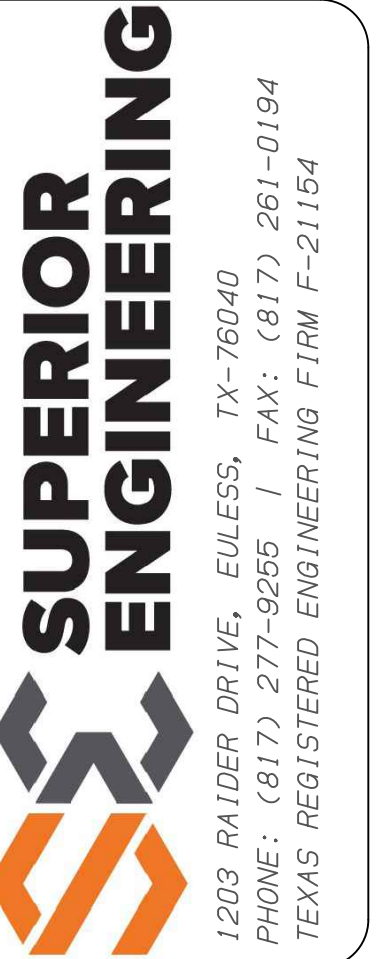
1. THE RETAINING WALL SHALL BE CONSTRUCTED WITH RECON SERIES 50, WITH A 3.6° BATTER (UNLESS NOTED OTHERWISE).
2. THE WALL IS DESIGNED AS A GRAVITY REQUIRING NO GEOGRID REINFORCEMENT.
3. SEE MANUFACTURER INFORMATION FOR ADDITIONAL CONSTRUCTION DETAILS FOR THE RECON RETAINING WALL SYSTEM. THE MANUFACTURER INFORMATION SHALL ACCOMPANY THE CONSTRUCTION PLANS.

LEVELING PAD THICKNESS	
STATION	THICKNESS (FT)
3+20 TO 4+42	3.00
4+42 TO 5+08	2.25
5+08 TO 5+82	1.50
5+82 TO END	0.50



FINAL

THIS DRAWING REFLECTS THE "AS-BUILT" STATUS OF THE PROJECT DOCUMENTS.



Project: **NINTH GRADE CENTERS ROCKWALL, TX**
 Title: **RW ELEVATION (2/2)**

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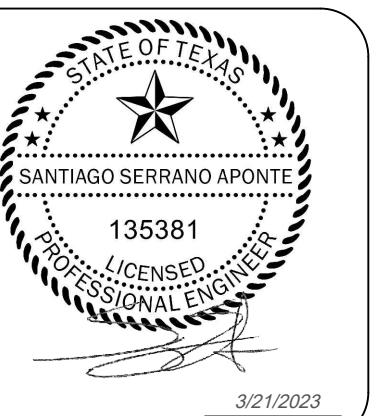
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Date: **2/1/2023**

Job No: **4945**

Sheet No: **RW-05**



notes:

1. THE SECTION SHOWN IS A REPRESENTATIVE WALL SECTION. THE WALL HEIGHTS, ELEVATIONS, TOE SLOPES, AND BACK SLOPES VARY ACCORDING TO THE ELEVATION PLAN AND SITE PLAN RESPECTIVELY. SECTIONS AND DETAILS APPLY TO SAME AND SIMILAR CONDITIONS UNLESS SPECIFICALLY NOTED OTHERWISE.
2. UPON EXCAVATION, WHERE UNSUITABLE SOILS ARE FOUND, SUBCUT TO DEPTH "D" AS REQUIRED BY THE ONSITE GEOTECHNICAL ENGINEER AND REPLACE WITH SUITABLE COMPACTED STRUCTURAL FILL TO ACHIEVE THE REQUIRED BEARING CAPACITY. THE STRUCTURAL FILL SHALL BE COMPACTED TO A MINIMUM 95% STANDARD PROCTOR DENSITY.
3. APPROXIMATE LIMITS OF EXCAVATION VARIES WHERE SUBCUT IS REQUIRED. ACTUAL LIMITS AND SIDE SLOPES SHALL BE DETERMINED BY OSHA REGULATIONS AND MATCH FIELD CONDITIONS AS DETERMINED BY SUPERIOR CONCRETE PRODUCTS.
4. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL STATE, COUNTY, AND CITY REGULATIONS AND CODES AS WELL AS OSHA STANDARDS.

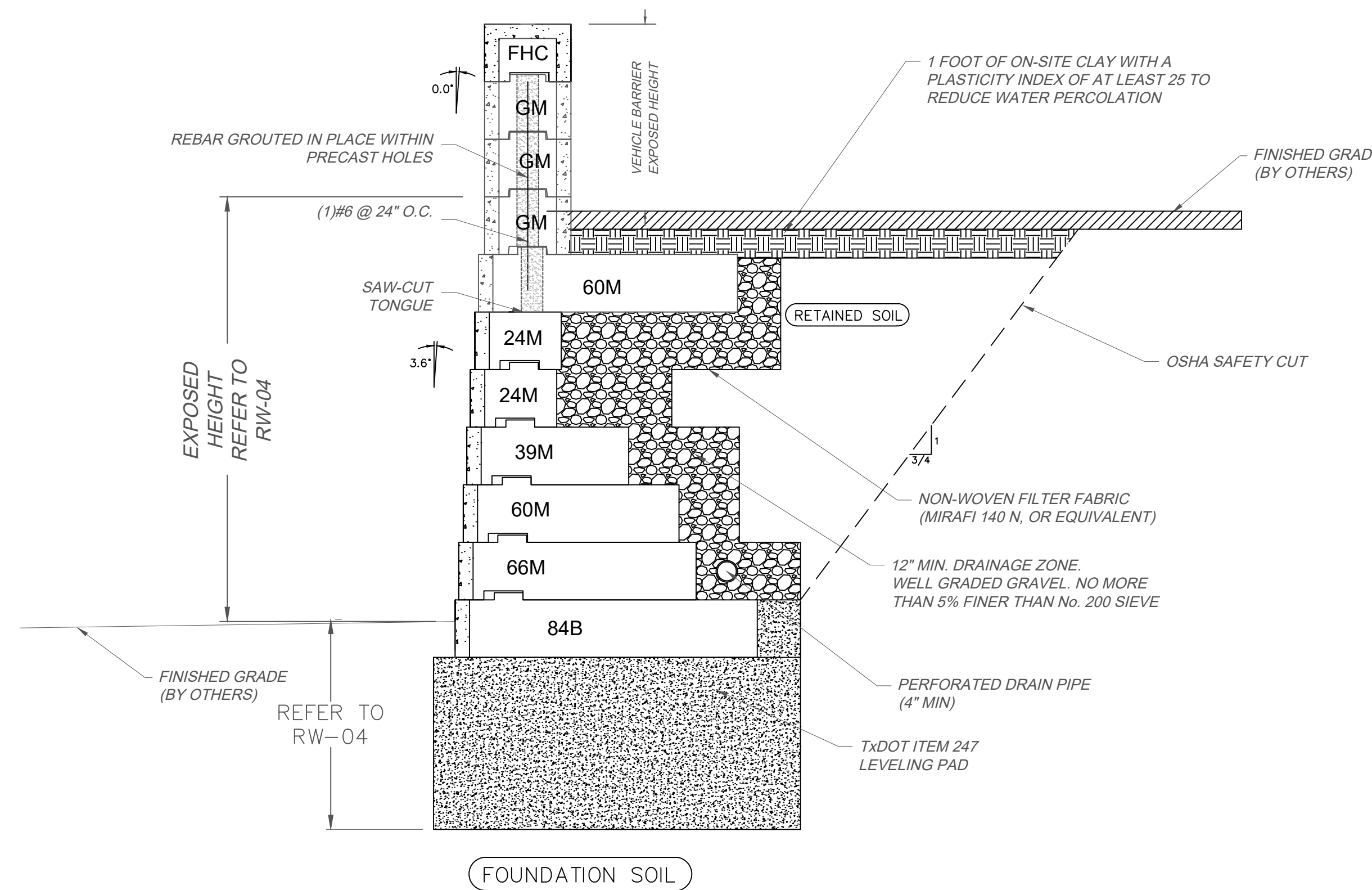
THE retaining WALL SHALL BE CONSTRUCTED WITH RECON SERIES 50: 24", 39", 60", 66", 72" and 84" deep units using 3.6" batter (0.0' batter FOR VEHICLE BARRIER).
5. THE WALL SHALL BE BACKFILLED WITH FREE DRAINING GRAVEL, REFER NOTE 6 IN RW-01.
6. 4" DIAMETER CORRUGATED PERFORATED PLASTIC DRAINPIPE WRAPPED WITH A GEOTEXTILE FABRIC INSTALLED WITH POSITIVE DRAINAGE. OUTLET DRAINPIPE INTO ONSITE DRAINAGE SYSTEM.

notes:

7. TO PREVENT PONDING OF WATER, POSITIVE DRAINAGE SHALL BE PROVIDED AT THE TOP AND BOTTOM OF WALL. INSPECT EXCAVATION SLOPES FOR ACTIVE SEEPAGE AND PLACE ADDITIONAL DRAINS WHERE SEEPAGE OCCURS.
8. AN EXPANSION MATERIAL SHALL BE REQUIRED BETWEEN THE RETAINING WALL BLOCK AND ALL POURED IN PLACE CONCRETE (EXCLUDING THE LEVELING PAD).
9. THE WORK SHALL BE PERFORMED IN A GENERAL SEQUENCE DEVELOPED BY superior concrete products IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT. superior concrete products SHALL BE SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR THE SEQUENCES AND PROCEDURES TO BE USED IN CONSULTATION WITH THE OWNER AND/OR THE GC.
10. ALL AVAILABLE MEANS AND METHODS SHALL BE USED TO KEEP EXCAVATION FOR THE RETAINING WALLS WITHIN THE CONSTRUCTION LIMITS SHOWN ON THE PLANS. EXCAVATION SLOPES SHALL BE DETERMINED BY OSHA REGULATIONS AND ON SITE SOIL CONDITIONS.
11. DURING WALL EXCAVATION, BENCH CUT AS REQUIRED TO FACILITATE BACKFILL OPERATION AND BOND BETWEEN ON SITE MATERIAL AND BACKFILL MATERIAL.
12. AT THE END OF EACH DAY'S OPERATION, SLOPE THE LAST LIFT OF BACKFILL TO DIRECT SURFACE RUNOFF AWAY FROM THE WALL. DO NOT ALLOW SURFACE RUNOFF FROM ADJACENT AREAS TO ENTER WALL CONSTRUCTION AREA.

notes:

15. superior concrete products SHALL PROACTIVELY COORDINATE RETAINING WALL CONSTRUCTION WITH ALL UTILITY INSTALLATIONS TO MINIMIZE PROJECT DELAYS AND CONSTRUCTION COSTS.
16. DO NOT BRING HEAVY COMPACTION OR PAVING EQUIPMENT WITHIN 3 FEET OF THE BACK OF THE RETAINING WALL. ONLY HAND-OPERATED COMPACTION EQUIPMENT (E.G. TAMPER, PLATE COMPACTOR, SHEEP'S FOOT ROLLER) SHALL BE USED WITHIN 3 FEET OF THE BACK OF THE RETAINING WALL UNITS.
17. if, during the performance of the work, superior concrete products finds a conflict, error, or discrepancy in the contract documents, superior concrete products shall so report to the general contractor in writing at once. before proceeding with the affected thereby, the contractor shall obtain a written interpretation or clarification from the engineer. work done before the engineer renders his decision is at the contractors sole risk.
18. ALL GEOGRIDS ARE STRATAGRID SG 350, UNLESS OTHERWISE STATED.



STATION 2+32.00

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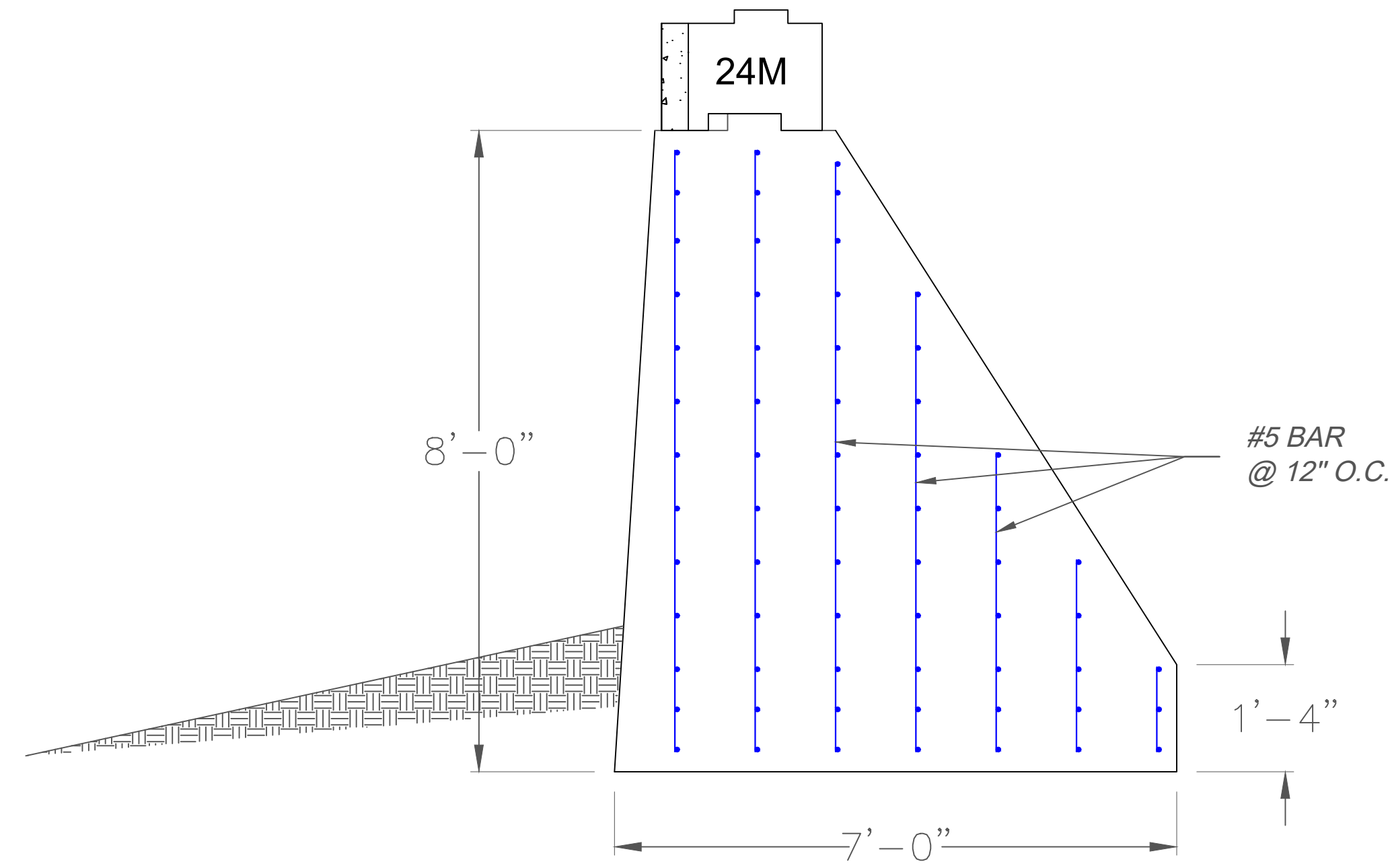
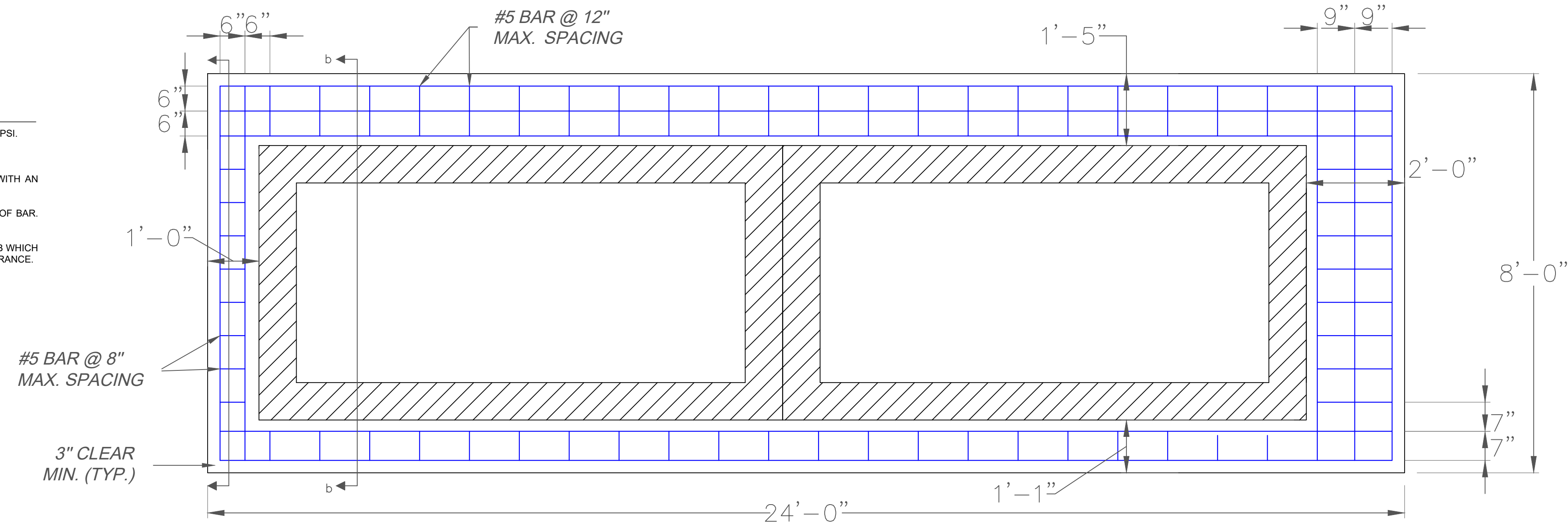
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FINAL
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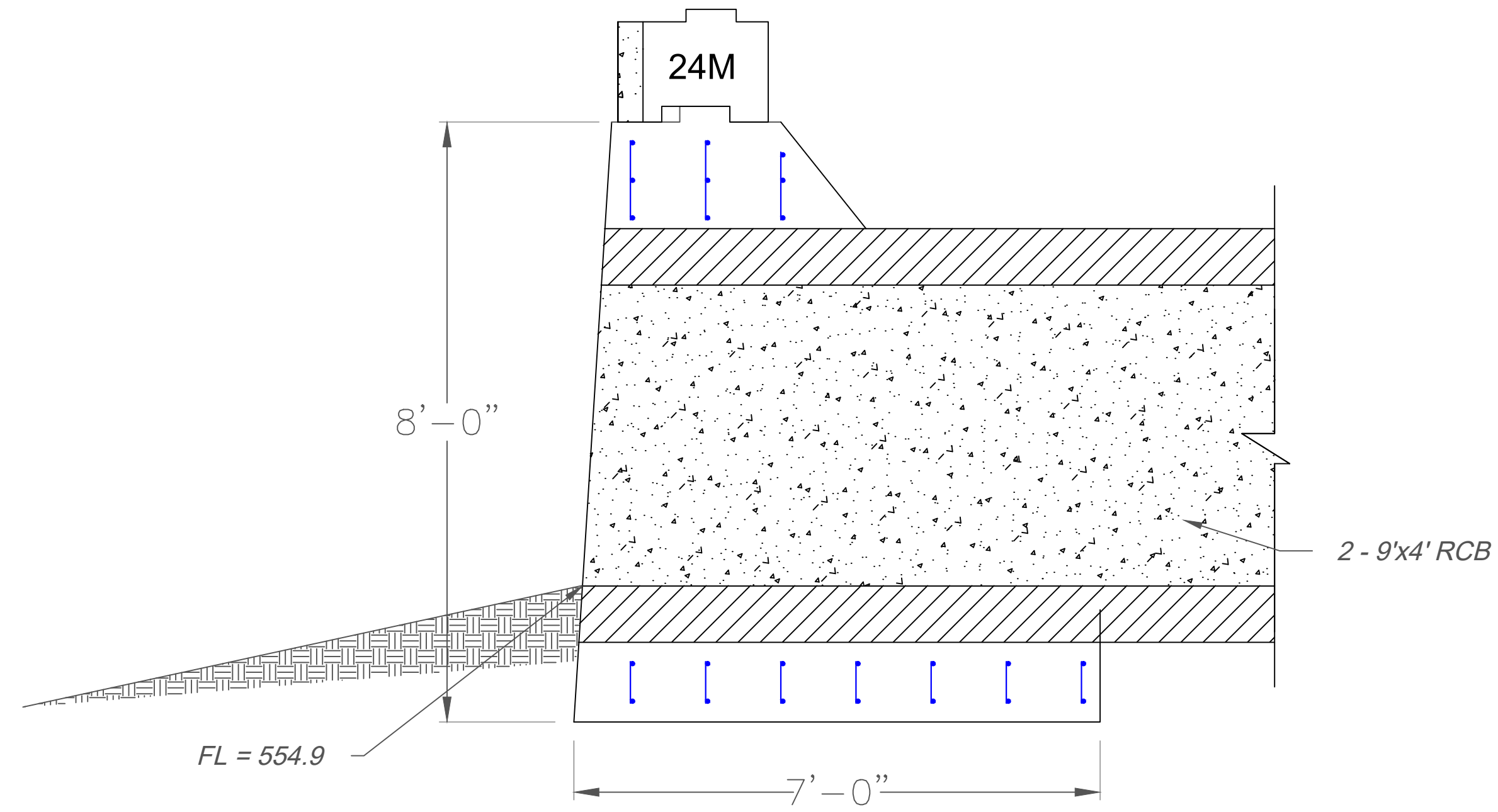


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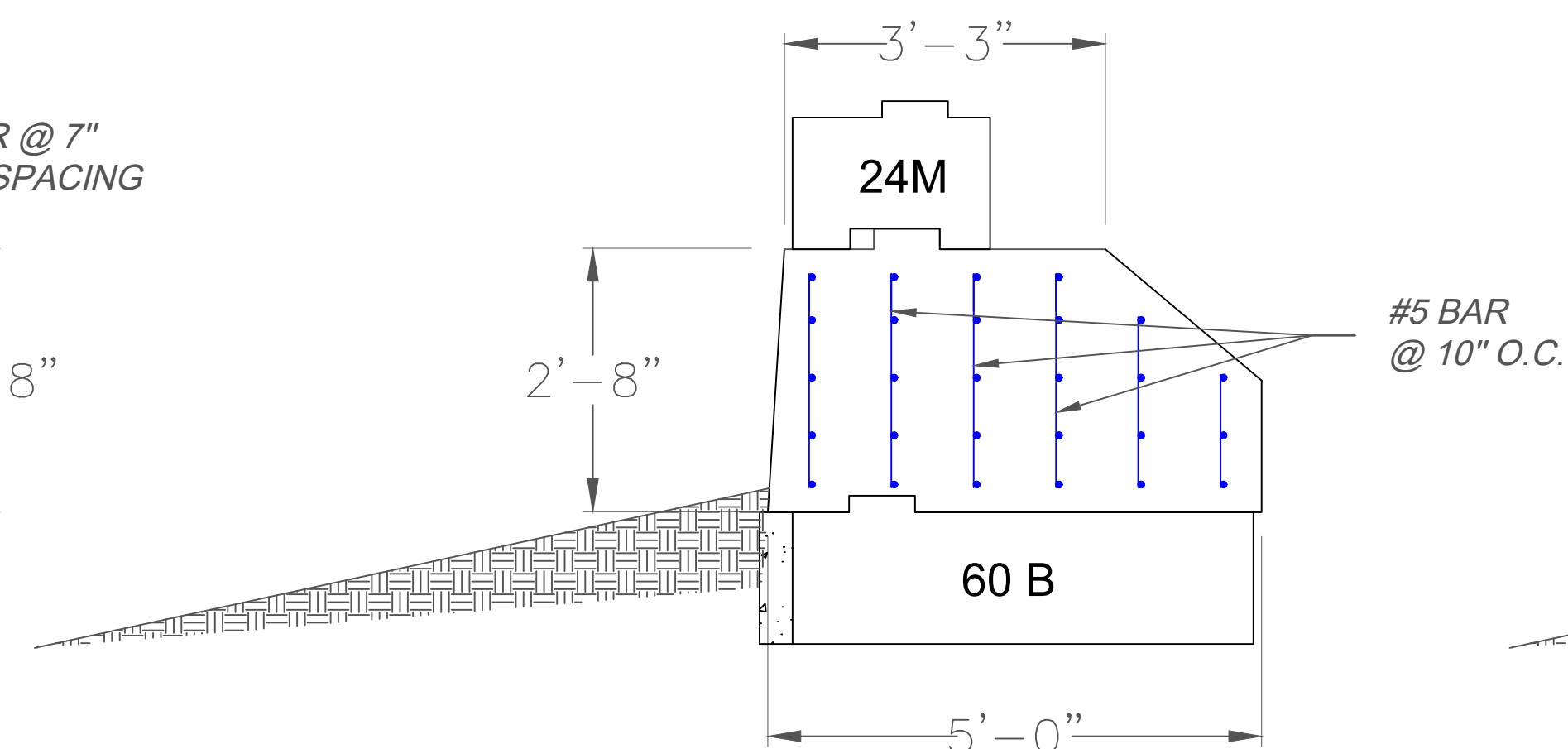
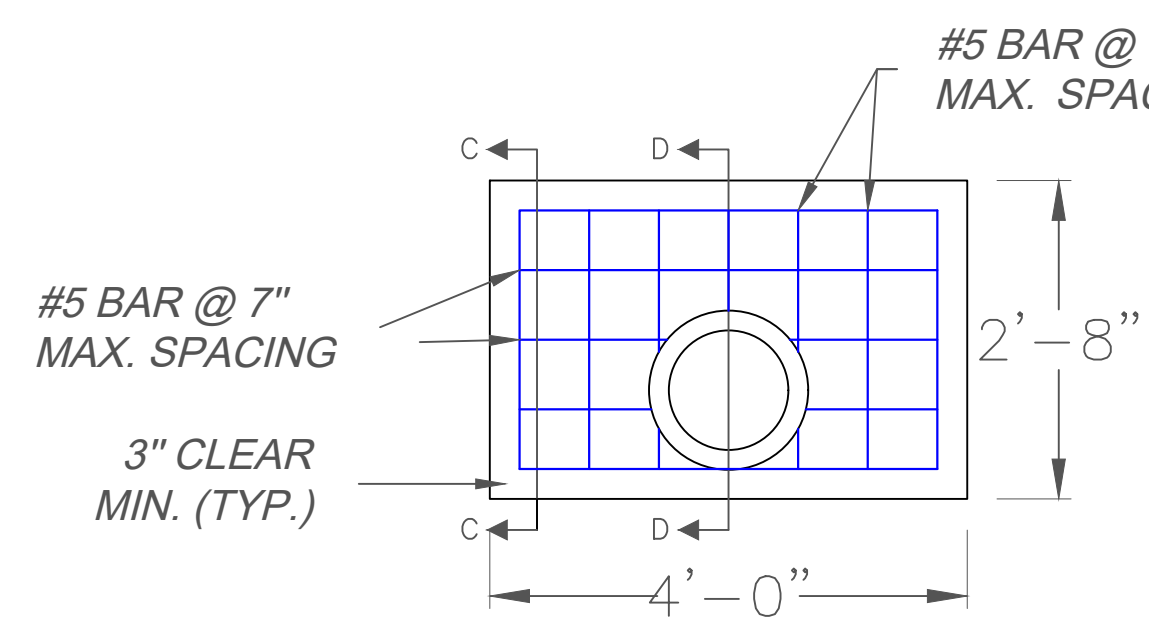
1. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,500 PSI.
2. ALL REINFORCING STEEL SHALL BE GRADE 60.
3. BEVEL ALL EXPOSED EDGES WITH A 3/4" TRIANGULAR MOLDING OR FINISH WITH AN APPROVED EDGING TOOL.
4. ALL DIMENSIONS RELATIVE TO REINFORCEMENT STEEL ARE TO CENTERLINE OF BAR. ALL BARS SHALL BE EQUALLY SPACED.
5. END CLEARANCES FOR REINFORCING STEEL SHALL BE 3" EXCEPT AROUND RCB WHICH SHALL BE 2". REINFORCING STEEL SHALL BE BENT TO MAINTAIN MINIMUM CLEARANCE.
6. USE A MINIMUM LAP SPLICE LENGTH OF 3'-0".



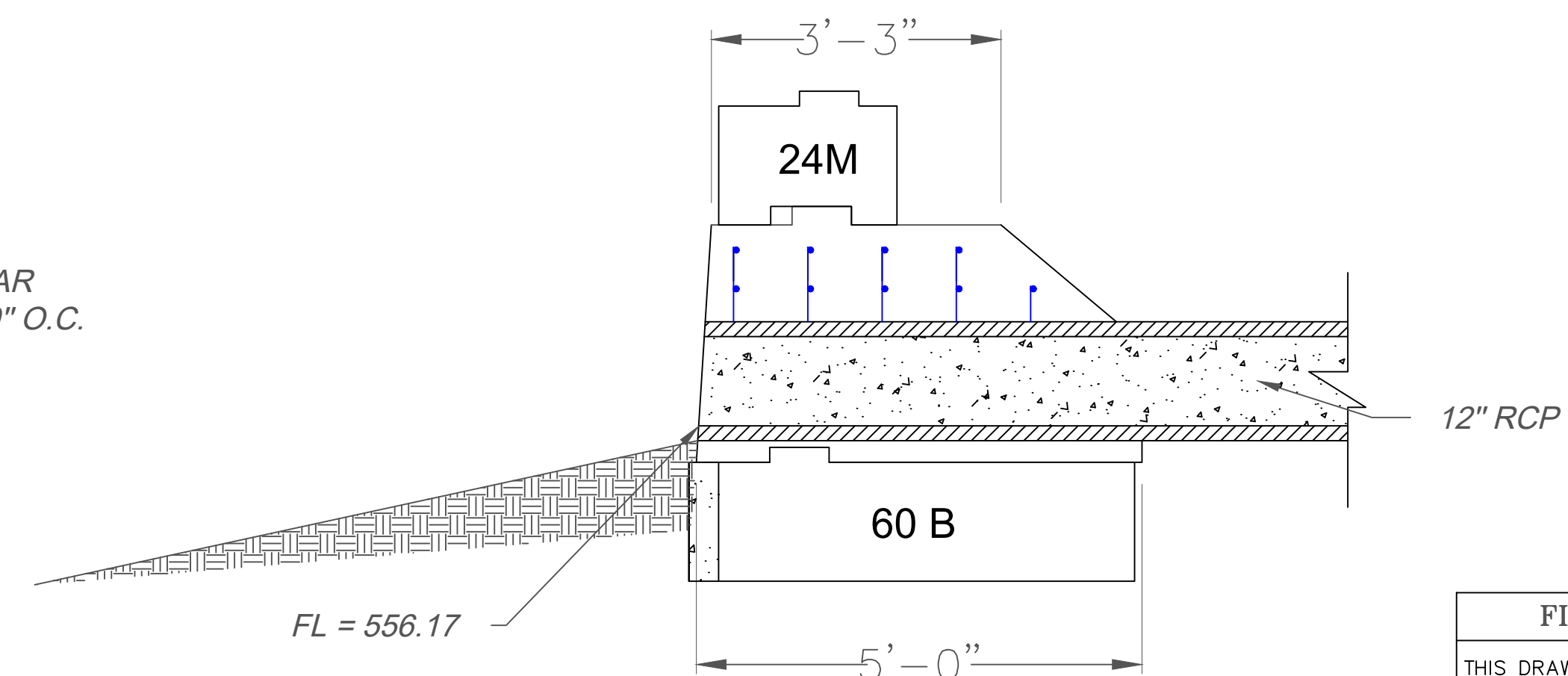
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

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THIS DRAWING REFLECTS THE "AS-BUILT" STATUS OF THE PROJECT DOCUMENTS.

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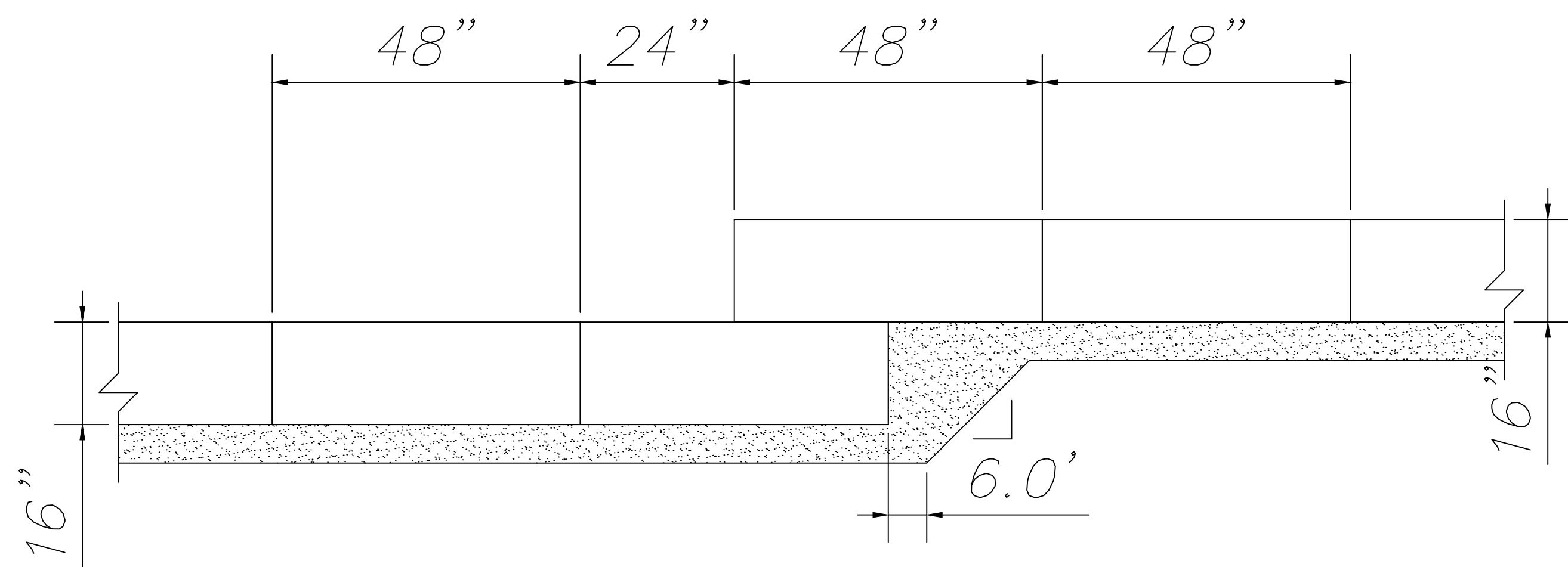
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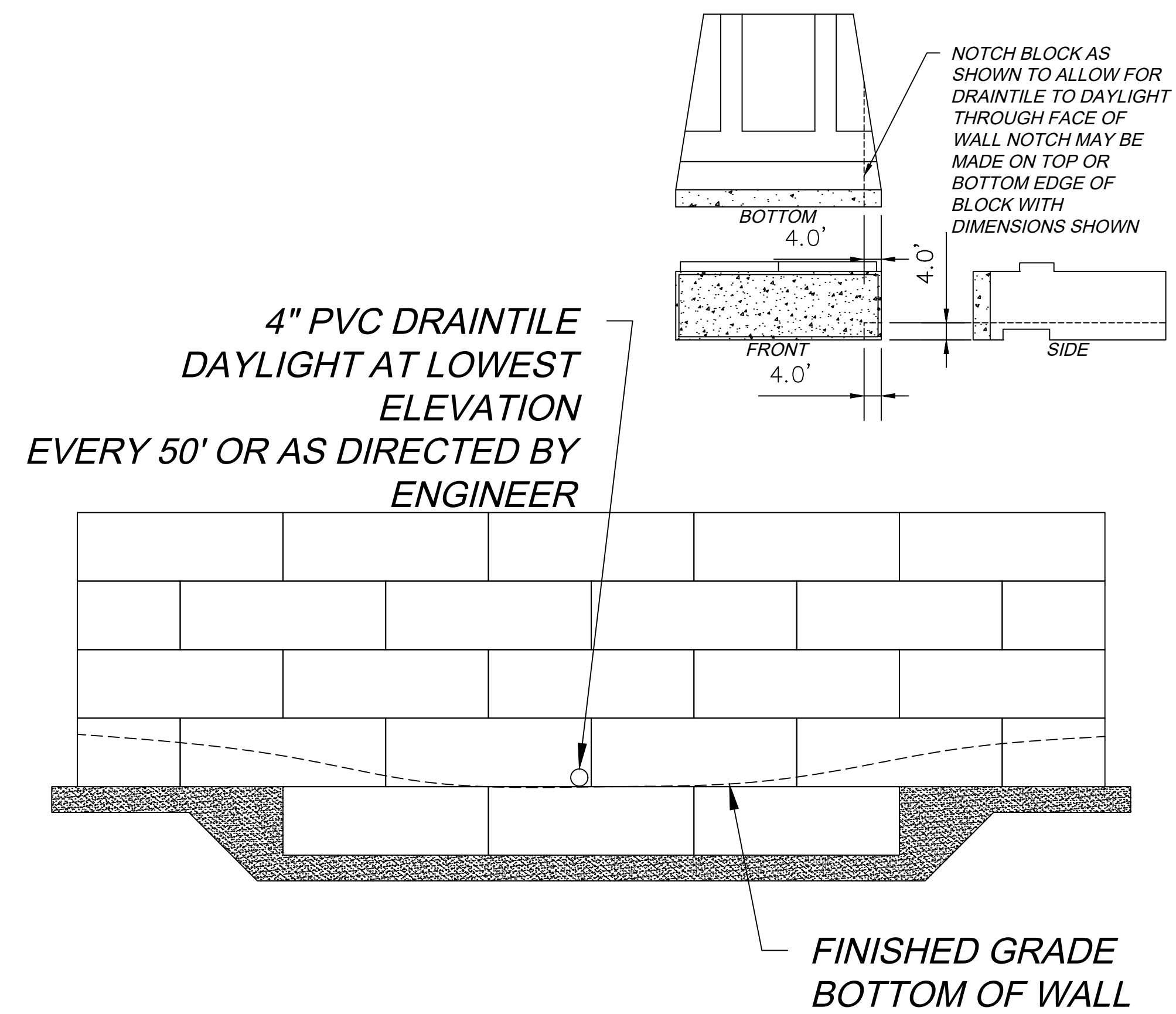
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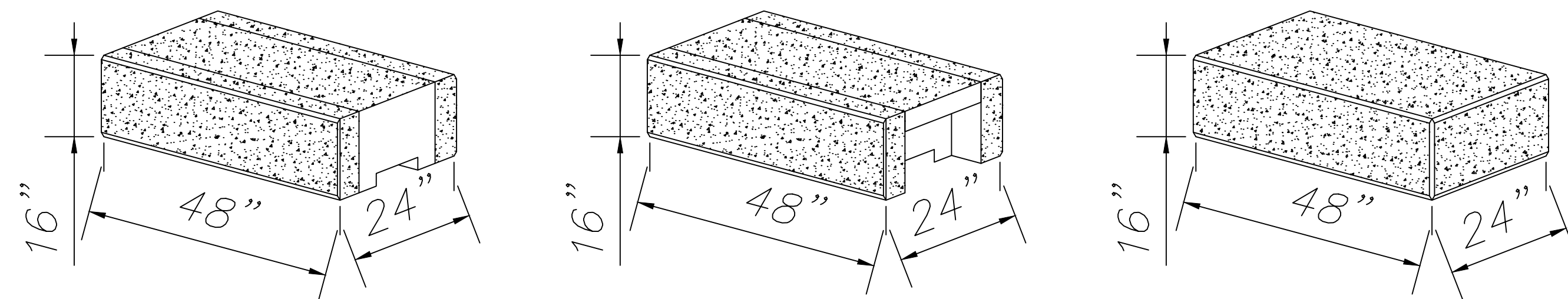




LEVELING PAD DETAIL



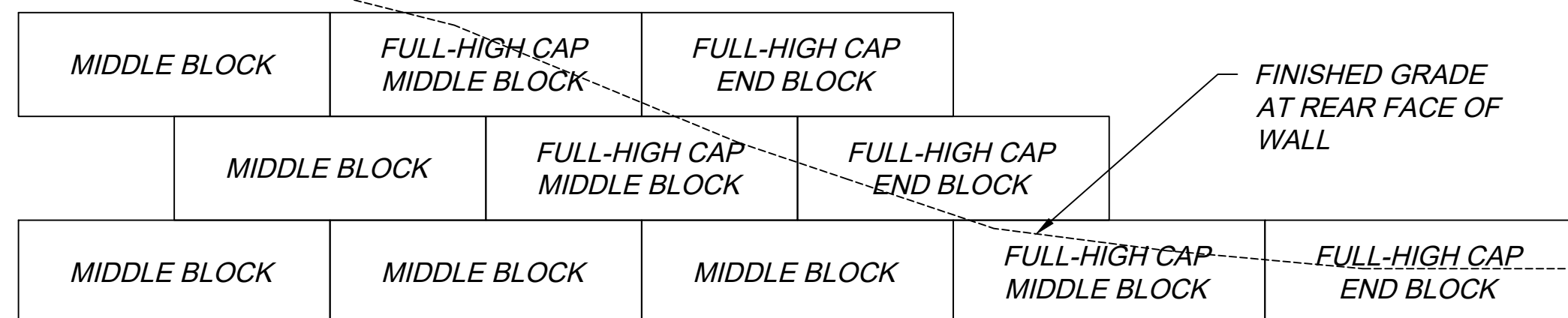
WEEP HOLE DETAIL



FULL-HIGH CAP MIDDLE BLOCK

FULL-HIGH CAP FITTING BLOCK

FULL-HIGH CAP END BLOCK



PARTIAL WALL PROFILE TYPICAL APPLICATION

NOTES:
 1. WHEN A RETAINING WALL IS CONSTRUCTED THAT IS SUPPORTING A ROAD OR SIDEWALK AND THE GRADE OF THE ROAD OR SIDEWALK IS NOT LEVEL, IT MAY BE HELPFUL TO USE FULL-HIGH CAP BLOCKS AT THE ENDS OF EACH COURSE OF THE WALL. THIS WILL PROVIDE TEXTURE ON THE BACK SIDE OF THE WALL (SIDE FACING ROAD OR SIDEWALK) UNTIL GRADE IS SUFFICIENT TO COVER THE UN-TEXTURED BACK OF A TYPICAL WALL BLOCK.
 2. IF THE WALL IS CURVED, THE FULL HIGH CAP WILL NEED TO BE MITER CUT IN THE FIELD TO CLOSE THE GAP BETWEEN THE BLOCKS. IN THIS SITUATION IT IS RECOMMENDED THAT FULL HIGH CAP FITTING BLOCKS BE USED TO SAVE TIME AND EXPENSE ON BLOCK CUTTING.

NOTE: THE STANDARD PLACEMENT OF A LEFT OR RIGHT CORNER TOP BLOCK IS TO PUT THE FULL 48" LENGTH OF TEXTURE ON THE FRONT FACE OF THE WALL AND THE 24" LENGTH OF TEXTURE ON THE END OF THE BLOCK RUNNING BACK INTO GRADE.

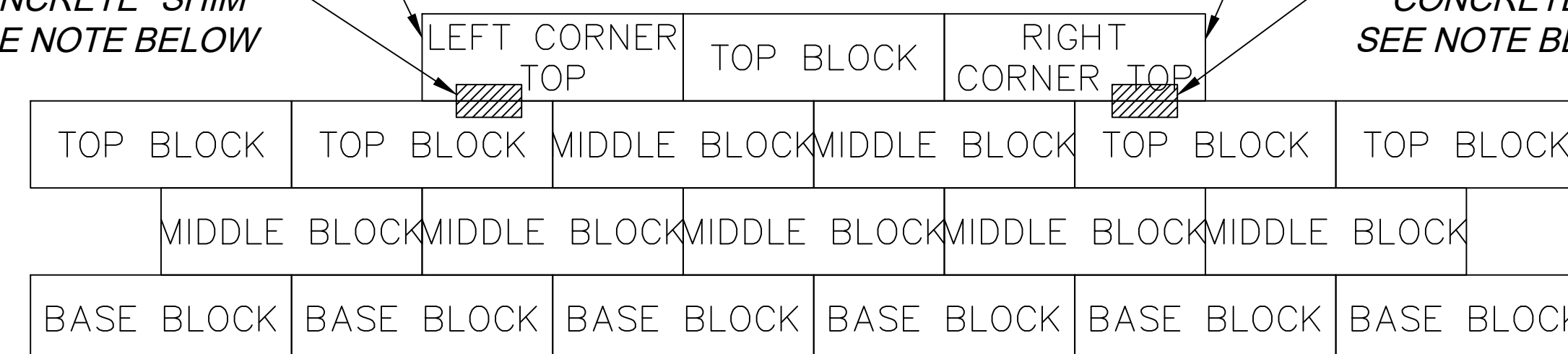
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THERE IS 24" OF TEXTURE ON THE END OF THIS BLOCK RUNNING BACK INTO GRADE

THERE IS 24" OF TEXTURE ON THE END OF THIS BLOCK RUNNING BACK INTO GRADE

** CONCRETE "SHIM" SEE NOTE BELOW

** CONCRETE SHIM SEE NOTE BELOW



STANDARD TOP OF WALL STEP UP

** NOTE: A CONCRETE "SHIM" MUST BE PLACED BETWEEN THE TOP BLOCK AND A LEFT OR RIGHT CORNER TOP BLOCK AT EACH POINT IN THE WALL WHERE THE TOP OF WALL STEPS UP. USE A STANDARD CONCRETE MASONRY UNIT (CMU) FOR THE "SHIM". THE REQUIRED THICKNESS OF THE "SHIM" IS 7 1/2" SO THE CMU WILL NEED TO BE TRIMMED ACCORDINGLY. THE "SHIM" SHOULD BE GLUED TO BOTH THE TOP BLOCK ON WHICH IT IS PLACED AND ALSO TO THE LEFT OR RIGHT CORNER TOP BLOCK ABOVE. PL PREMIUM IS THE RECOMMENDED ADHESIVE FOR GLUING THE "SHIM" IN PLACE. ANY REMAINING VOID SPACE BETWEEN THE TOP BLOCK AND THE CORNER TOP BLOCK SHOULD BE FILLED WITH CRUSHED STONE.

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Date: **2/1/2023**

Job No: **4945**

Sheet No: **RW-08**

