

KROGER SW574 ROCKWALL, TX

GENERAL NOTES:

1. THE FOLLOWING EFFECTIVE STRENGTH PARAMETERS WERE ASSUMED IN THE PREPARATION OF THE STRUCTURAL CALCULATIONS FOR THE RECON RETAINING WALL SYSTEM.

SOILS INFORMATION OBTAINED FROM THE GLOBAL STABILITY ANALYSIS REPORT PREPARED BY ALPHA TESTING INC. DATED MAY 6, 2015. ONSITE MATERIAL IS PREDOMINATELY SANDY SILTY CALY AND CLAY.

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

UNIT TYPE : RECON SERIES 50: 24", 39", 45", 60", 66", 72", 78", 84" UNITS, 3.6° WALL BATTER.

DESIGN METHOD : NCMA

LIVE LOAD : 100 PSF (250 PSF FIRE LANE)

DEAD LOAD : 40 PSF (500 PSF WALK-IN KIOSK)

TOE SLOPE : 4H: 1V

BACK SLOPE : 5H: 1V

SEISMIC : NONE

BEARING CAPACITY : APPROX. 3,000 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 EXCESSIVE SETTLEMENT. LOCAL BEARING CAPICITY 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 12" THICK LIFTS AND WILL BE TESTED BY ON-SITE CONSTRUCTION VERIFICATION ENGINEER.

5. BASE LEVELING PAD: THE WALL BASE LEVELING PAD MATERIAL SHALL CONSIST OF A COMPACTED CRUSHED STONE BASE ¾" MINUS OR NON-REINFORCED CONCRETE AS INDICATED IN THE CONSTRUCTION DRAWINGS.

RECON MODULAR BLOCK RETAINING WALL SYSTEM				
	Φ	C (PSF)	Υ (PCF)	SOIL TYPE
REINFORCED SOIL	15°	200	120	(SANDY SILTY CLAY/CLAY)
RETAINED SOIL	15°	200	120	(SANDY SILTY CLAY/CLAY)
RETAINED SOIL	30°	0	120	(PITRUN SAND)
FOUNDATION SOIL	18°	250	120	(SANDY SILTY CLAY/CLAY)

6. DRAINAGE AGGREGATE: DRAINAGE AGGREGATE MATERIAL SHALL CONSIST OF CLEAN 1" MINUS CRUSHED STONE OR GRAVEL MEETING THE REQUIREMENTS AS INDICATED IN THE CONSTRUCTION DRAWINGS.

7. FILTER FABRIC: FILTER FABRIC SHALL BE MIRAFI 140N, OR EQUAL.

8. BACKFILL MATERIAL: ALL BACKFILL MATERIAL SHALL MEET ALL THE REQUIREMENTS AS INDICATED IN THE CONSTRUCTION DRAWINGS.

9. GEO-GRID PLACEMENT: THE STRATA SG350 (OR EQUAL) SHALL BE PLACED AT THE LOCATIONS, ELEVATIONS AND WITH THE PROPER EMBEDMENT LENGTH AS SHOWN ON THE CONSTRUCTION DRAWINGS. EMBEDMENT LENGTH IS MEASURED FROM THE FRONT FACE OF THE WALL UNIT.

PRIOR TO THE PLACING FILL MATERIALS IN THE REINFORCED FILL AREA, THE GEOGRIDS SHALL BE ANCHORED TO THE WALL UNITS, PULLED TIGHT TO REMOVE ANY SLACK, AND LAID FLAT AND HORIZONTAL. NO PORTION OF THE GEOGRID PLACEMENT SHALL BE STEEPER THAN 10% GRADE FROM THE HORIZONTAL.

9. DRAINAGE PIPE: IF REQUIRED IN THE CONSTRUCTION DRAWINGS, 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.

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

11. NONE OF THE GEOGRIDS OR BACKFILL WILL BE IN EASEMENTS OR UTILITIES.

MANUFACTURING PROVISIONS:

- ALL BLOCKS SHALL BE RECON SERIES 50 BLOCK AS MANUFACTURED BY SUPERIOR CONCRETE PRODUCTS - EULESS, TX 817-277-9255. NCPA - CERTIFIED PLANT.
- NO OTHER SYSTEM, MANUFACTURER, OR PRODUCT WILL BE ACCEPTED AS AN EQUAL FOR THIS PROJECT.
- TEXTURE ON THE FACE OF THE BLOCKS SHALL BE NORTH SHORE GRANITE IN AN INTEGRAL EARTH TONE COLOR.
- THE BLOCK UNIT SHALL CONSIST OF CONCRETE WITH THE AVARAGE 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" UP TO 84" (24", 39", 45", 60", 66", 72", 78", and 84").

DISCLAIMER: TO THE BEST OF OUR KNOWLEDGE H&A ENGINEERS, INC., HEREBY STATES THAT THIS PLAN IS AS-BUILT. THE INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.



STATE OF TEXAS
JAY L. HANSEN
46402
REGISTERED PROFESSIONAL ENGINEER
10-20-16
TBPE FIRM REGISTRATION NUMBER F-753

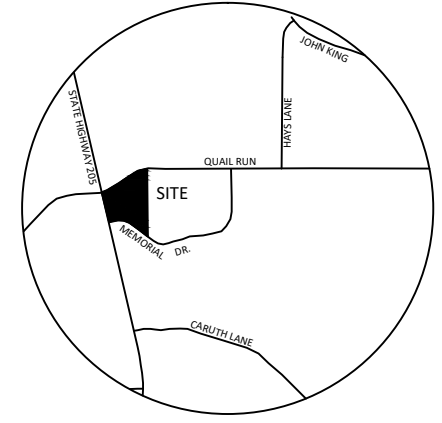
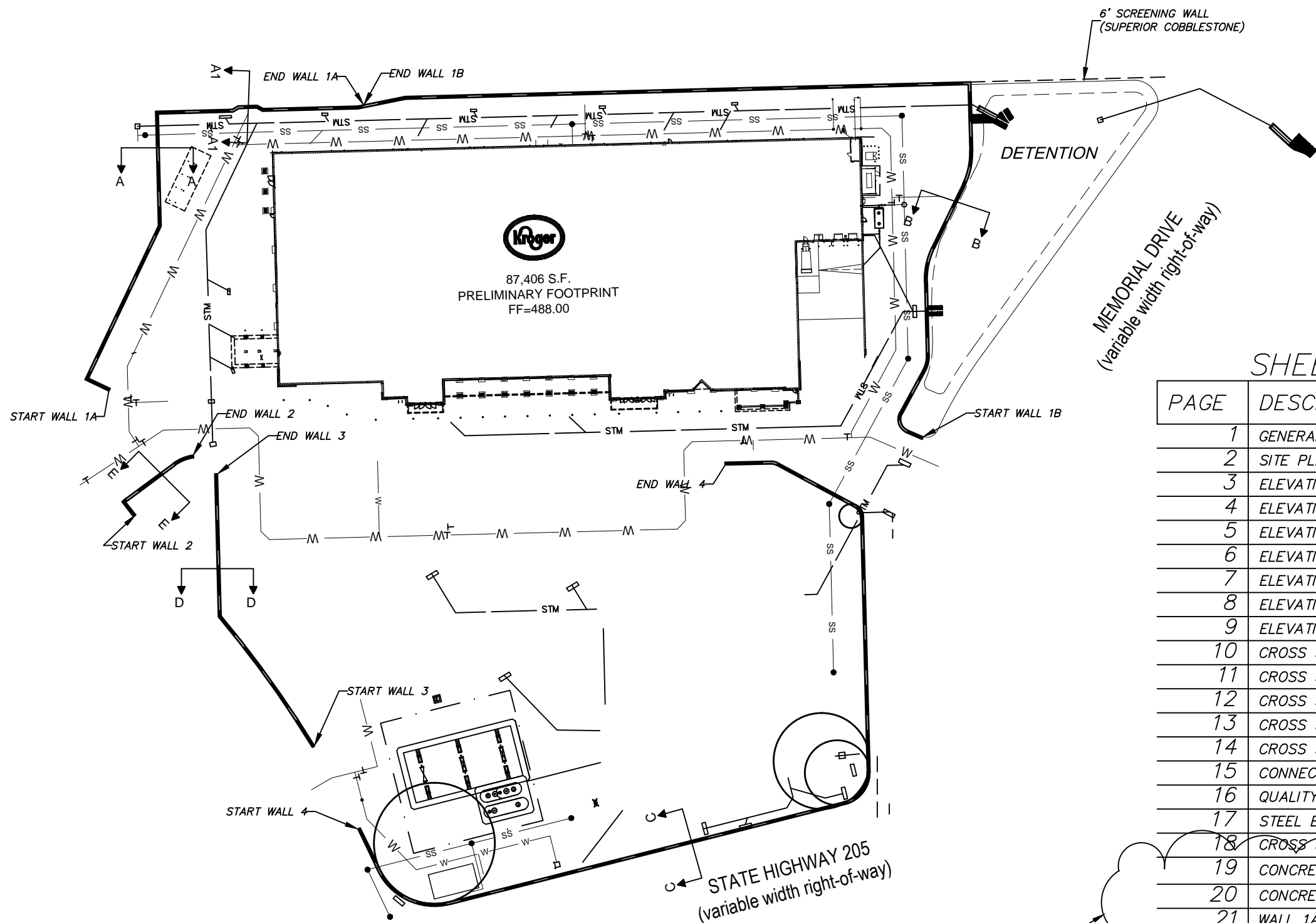
1203 RAIDER DRIVE
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No.	Date	Revision	By
1	11/12/2015	Addendum #1	SS
2	12/02/2015	Addendum #3	SS
3	12/18/2015	FOR CONSTRUCTION	SS
4	01/22/2016	Δ Details and Notes Addition	SS
5	10/20/2016	AS BUILT DRAWINGS	SS
6			

Designed by: SS	Project: KROGER SW574 ROCKWALL, TX	Sheet No: RW-01
Scale: N.T.S.	Title: GENERAL NOTES	Job No: 4344
Date: 10/21/2015		

H & A Engineers, Inc. #P-753

DATE



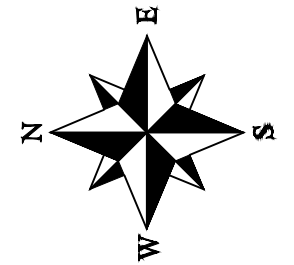
VICINITY MAP
NOT TO SCALE

NOTES:

1. THE SITE PLAN SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY. SITE PLAN PROVIDED IS REPRODUCED FROM WINKELMANN & ASSOCIATES, INC. 31585-PRO DATED 10/19/2015.
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.
4. NONE OF THE GEOGRIDS OR BACKFILL WILL BE IN EASEMENTS OR UTILITIES.

SHEET INDEX

PAGE	DESCRIPTION
1	GENERAL NOTES
2	SITE PLAN
3	ELEVATION WALL 1A
4	ELEVATION WALL 1B-1
5	ELEVATION WALL 1B-2
6	ELEVATION WALL 2
7	ELEVATION WALL 3
8	ELEVATION WALL 4-1
9	ELEVATION WALL 4-2
10	CROSS SECTION WALL 1A
11	CROSS SECTION WALL 1B
12	CROSS SECTION WALL 2
13	CROSS SECTION WALL 3
14	CROSS SECTION WALL 4
15	CONNECTION DETAILS
16	QUALITY ASSURANCE NOTES
17	STEEL ENCASEMENT DETAIL
18	CROSS SECTION WALL 1A (A1)
19	CONCRETE COLLAR DETAIL (15" RCP)
20	CONCRETE COLLAR DETAIL (27" RCP)
21	WALL 1A-EXCAVATION LIMITS (1/2)
22	WALL 1A-EXCAVATION LIMITS (2/2)



SCALE: 1" = 100'

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(RW 19 TO RW 22)
4

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6			

Designed by: SS
Scale: 1"=100'
Date: 10/21/2015

Project: **KROGER SW574
ROCKWALL, TX**

Title: **SITE PLAN**

Sheet No: **RW-02**

Job No: 4344



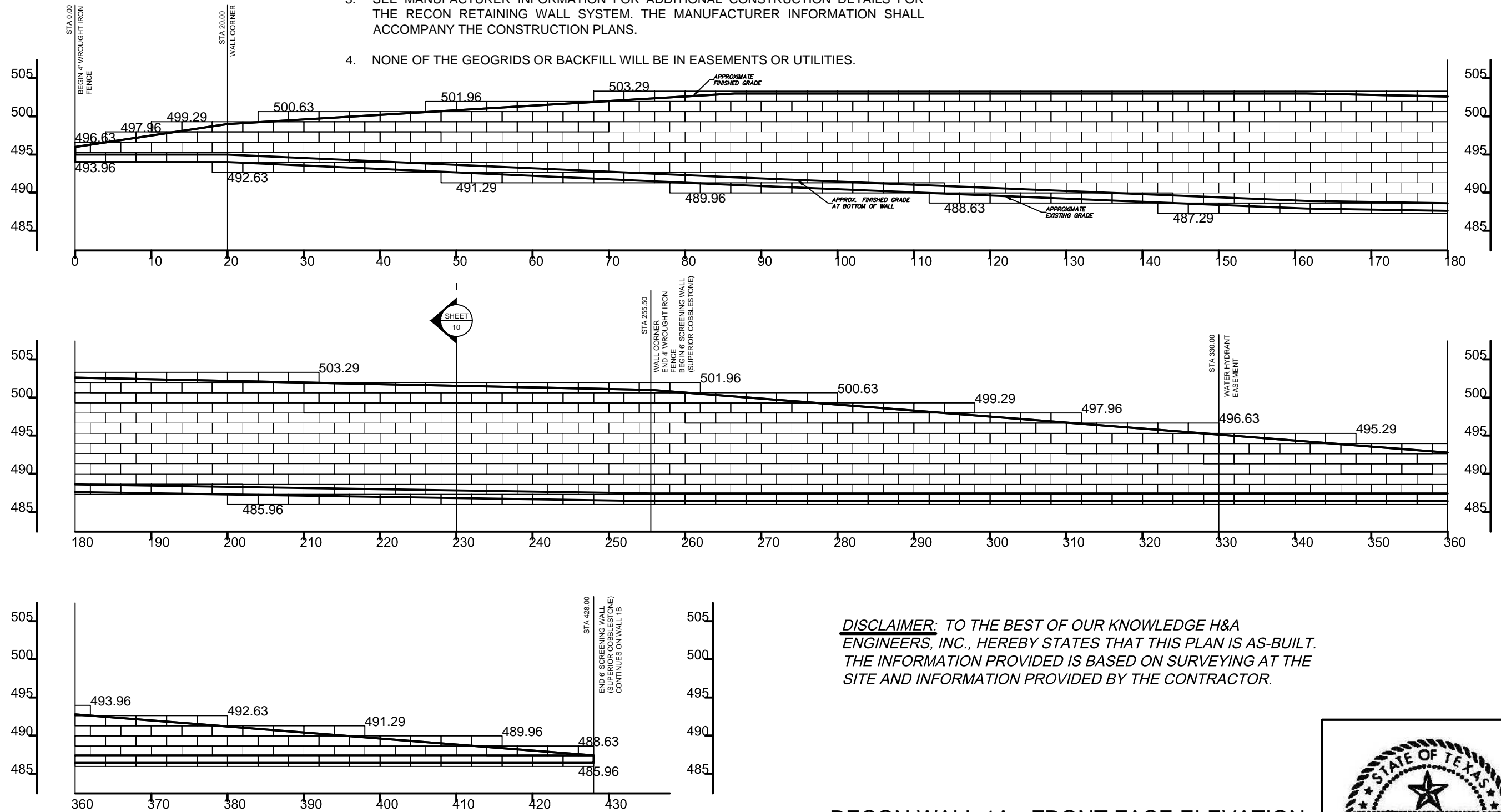
TBPE FIRM REGISTRATION NUMBER F-753

H & A Engineers, Inc.
TBPE Firm Registration #F-753

DATE

NOTES:

1. THE GRAVITY WALL SHALL BE CONSTRUCTED WITH RECON SERIES 50, WITH A 3.6° BATTER.
2. THE WALL IS DESIGNED AS A GRAVITY WALL 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.
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RECON WALL 1A - FRONT FACE ELEVATION



SUPERIOR CONCRETE PRODUCTS
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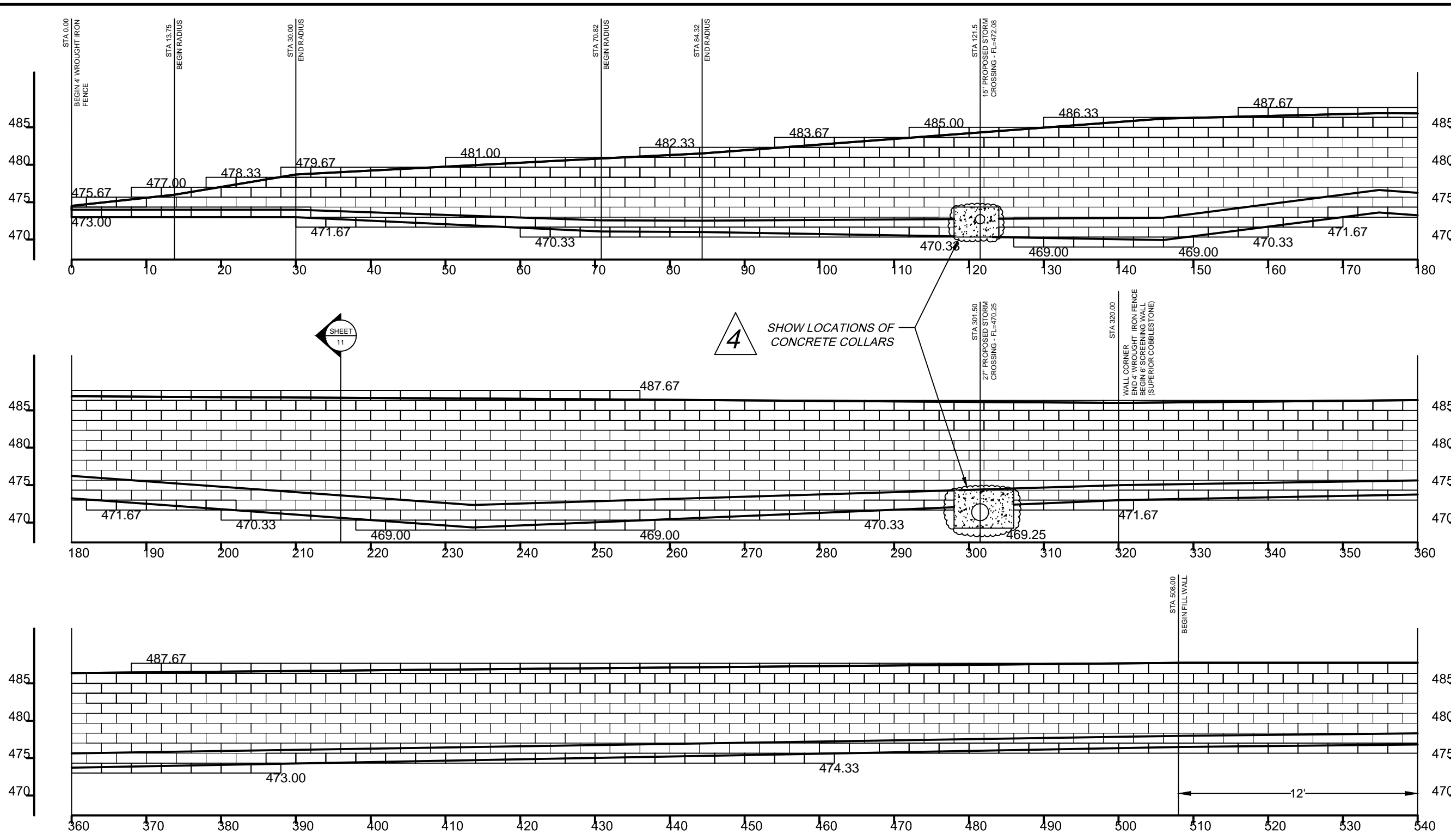
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6			

Designed by: SS	Project: KROGER SW574 ROCKWALL, TX	Sheet No: RW-03
Scale: N.T.S.	Title: WALL 1A ELEVATION	Job No: 4344
Date: 10/21/2015		

TBPE FIRM REGISTRATION NUMBER F-753

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LONGEST GEOGRID DEPTH (FEET)
12'

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RECON WALL 1B - FRONT FACE ELEVATION

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4	01/22/2016	Details and Notes Addition	SS
5	10/20/2016	AS BUILT DRAWINGS	SS
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Designed by: SS	Project: KROGER SW574 ROCKWALL, TX	Sheet No: RW-04
Scale: N.T.S.	Title: WALL 1B ELEVATION (1/2)	Job No: 4344
Date: 10/21/2015		



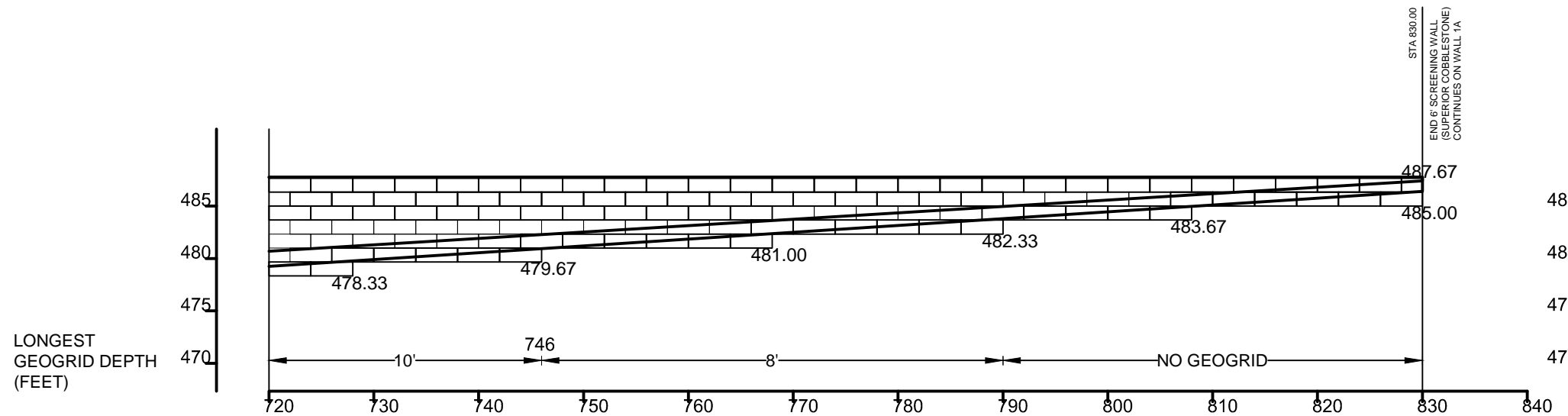
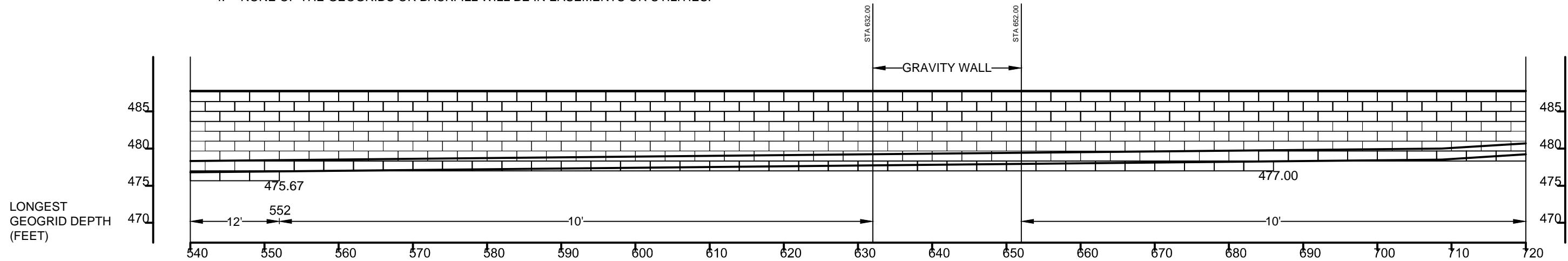
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RECON WALL 1B - FRONT FACE ELEVATION



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4	10/20/2016	AS BUILT DRAWINGS	SS
5			
6			

Designed by:
SS
Scale:
N.T.S.
Date:
10/21/2015

Project:
**KROGER SW574
ROCKWALL, TX**
Title:
WALL 1B ELEVATION (2/2)

Sheet No:
RW-05
Job No:
4344



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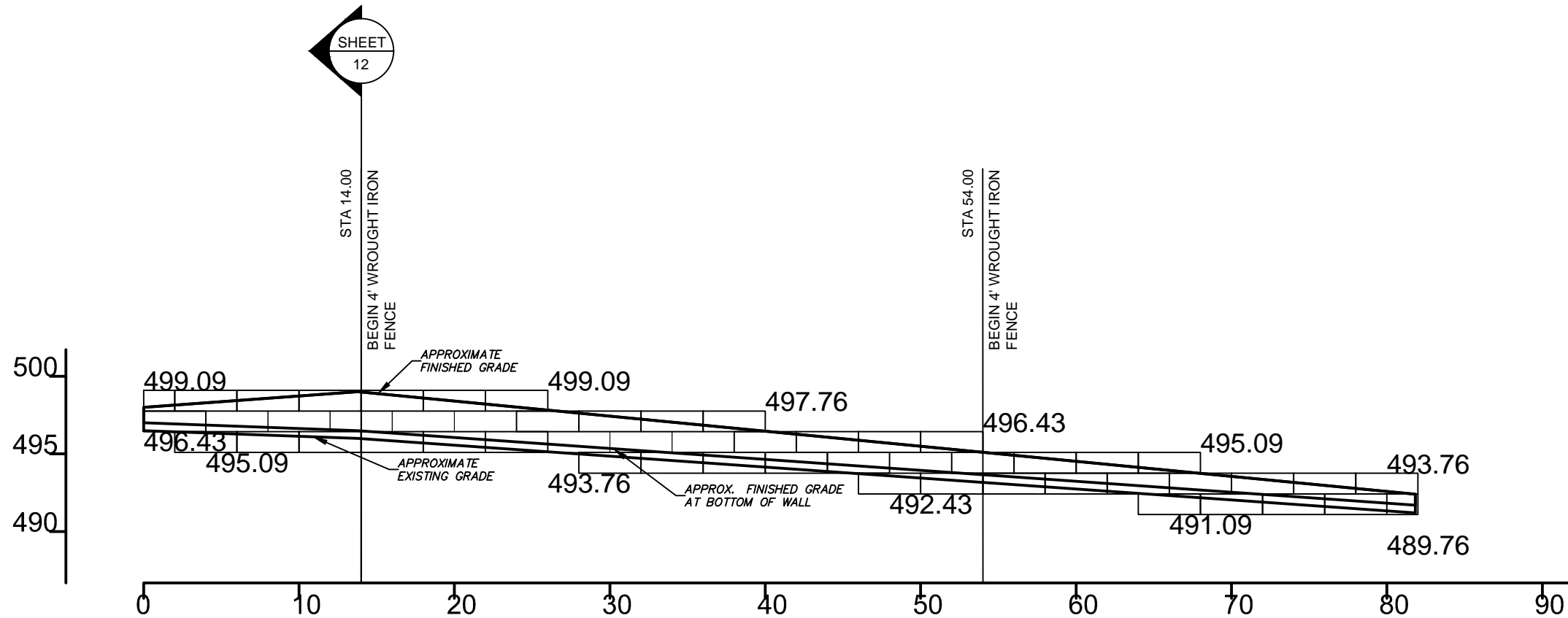
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TBPE Firm Registration #F-753

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RECON WALL 2 - FRONT FACE ELEVATION



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4	10/20/2016	AS BUILT DRAWINGS	SS
5			
6			

Designed by:
SS
Scale:
N.T.S.
Date:
10/21/2015

Project:
**KROGER SW574
ROCKWALL, TX**
Title:
WALL 2 ELEVATION

Sheet No:
RW-06
Job No:
4344



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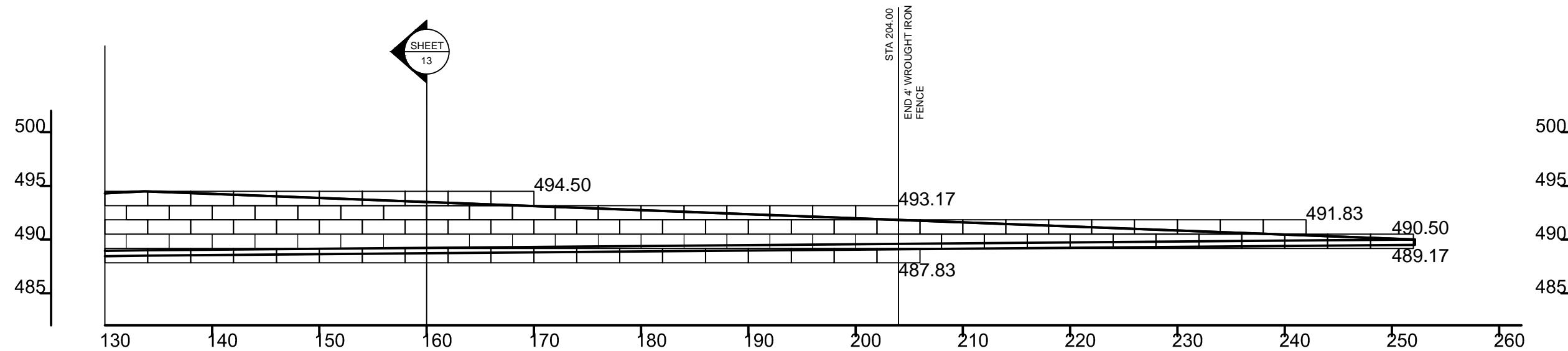
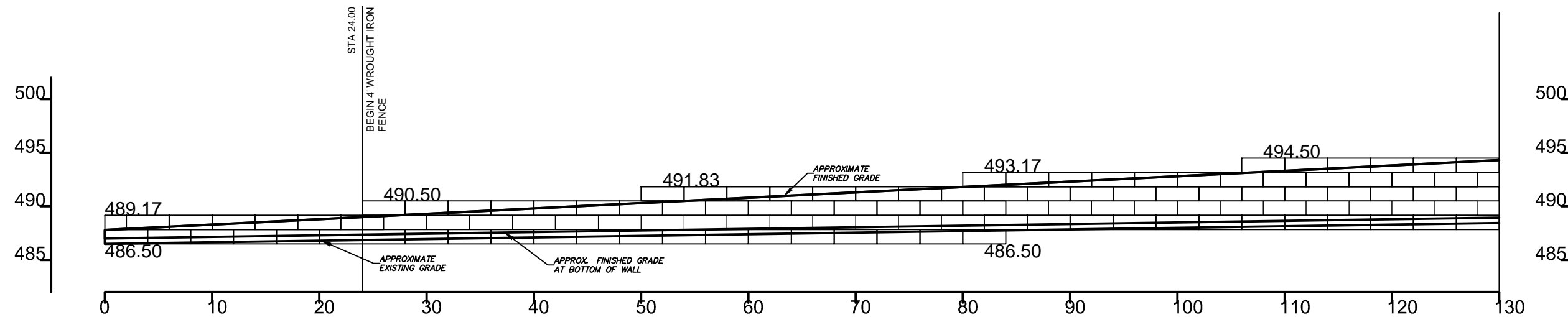
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SHEET
13

RECON WALL 3 - FRONT FACE ELEVATION



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5			
6			

Designed by: SS	Project: KROGER SW574 ROCKWALL, TX	Sheet No: RW-07
Scale: N.T.S.	Title: WALL 3 ELEVATION	Job No: 4344
Date: 10/21/2015		

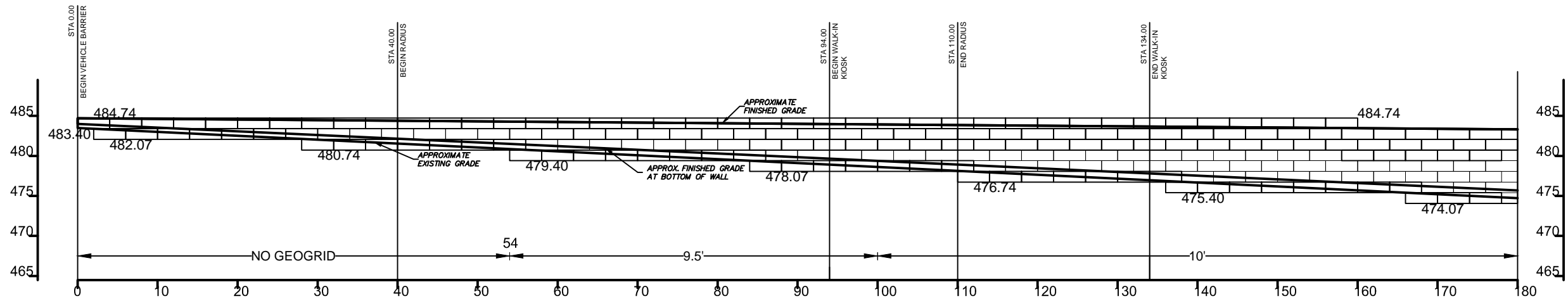


10-20-16
TBPE FIRM REGISTRATION NUMBER F-753

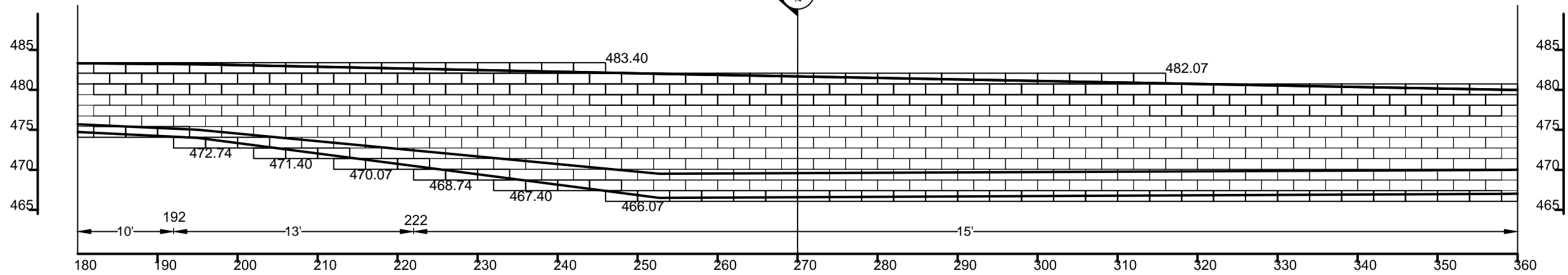
H & A Engineers, Inc.
TBPE Firm Registration #F-753

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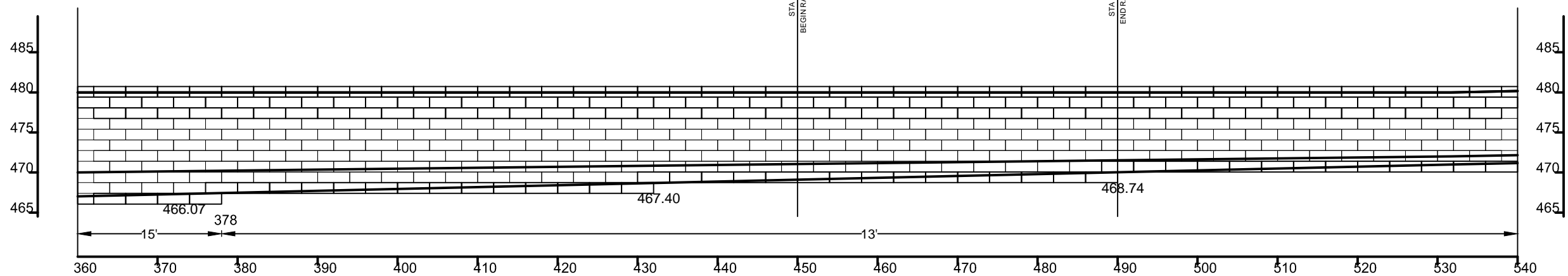
LONGEST
GEOGRID DEPTH
(FEET)



LONGEST
GEOGRID DEPTH
(FEET)



LONGEST
GEOGRID DEPTH
(FEET)



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RECON WALL 4 - FRONT FACE ELEVATION



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Designed by: SS	Project: KROGER SW574 ROCKWALL, TX	Sheet No: RW-08
Scale: N.T.S.	Title: WALL 4 ELEVATION (1/2)	Job No: 4344
Date: 10/21/2015		



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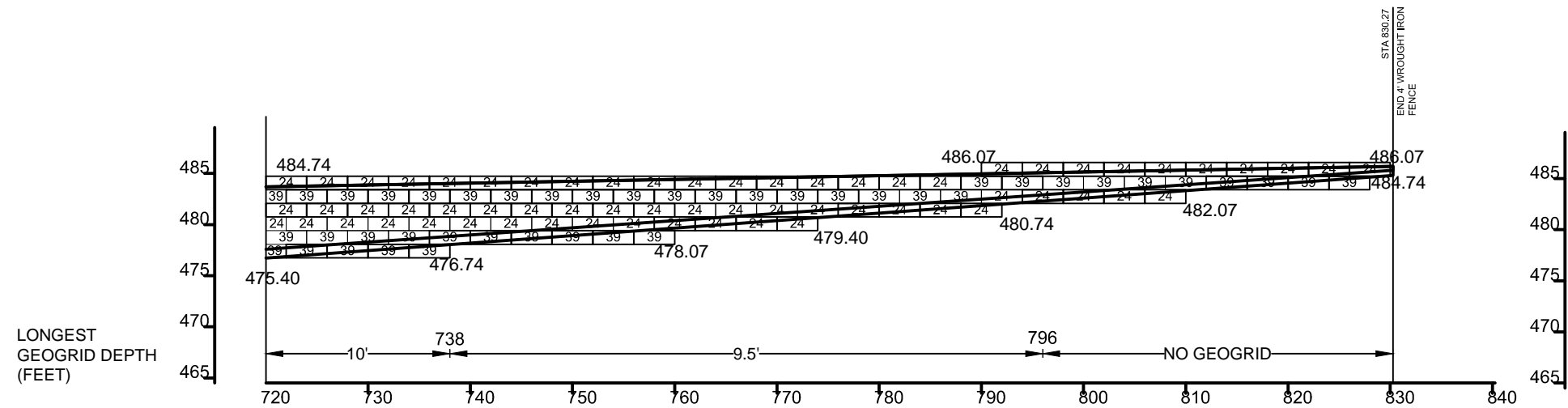
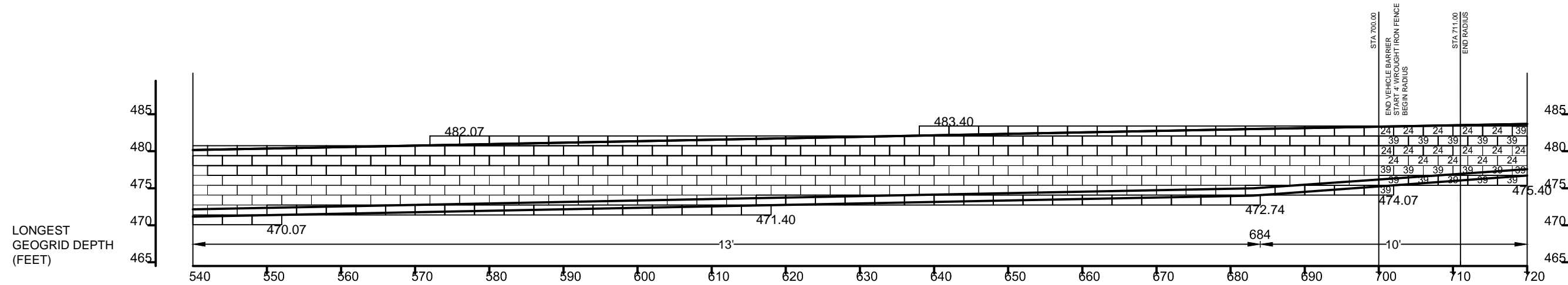
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TBPE Firm Registration # F-753

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RECON WALL 4 - FRONT FACE ELEVATION



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5			
6			

Designed by:
SS
Scale:
N.T.S.
Date:
10/21/2015

Project:
**KROGER SW574
ROCKWALL, TX**
Title:
WALL 4 ELEVATION (2/2)

Sheet No:
RW-09
Job No:
4344



TPBE FIRM REGISTRATION NUMBER F-753

DATE

H & A Engineers, Inc.
TPBE Firm Registration # F-753

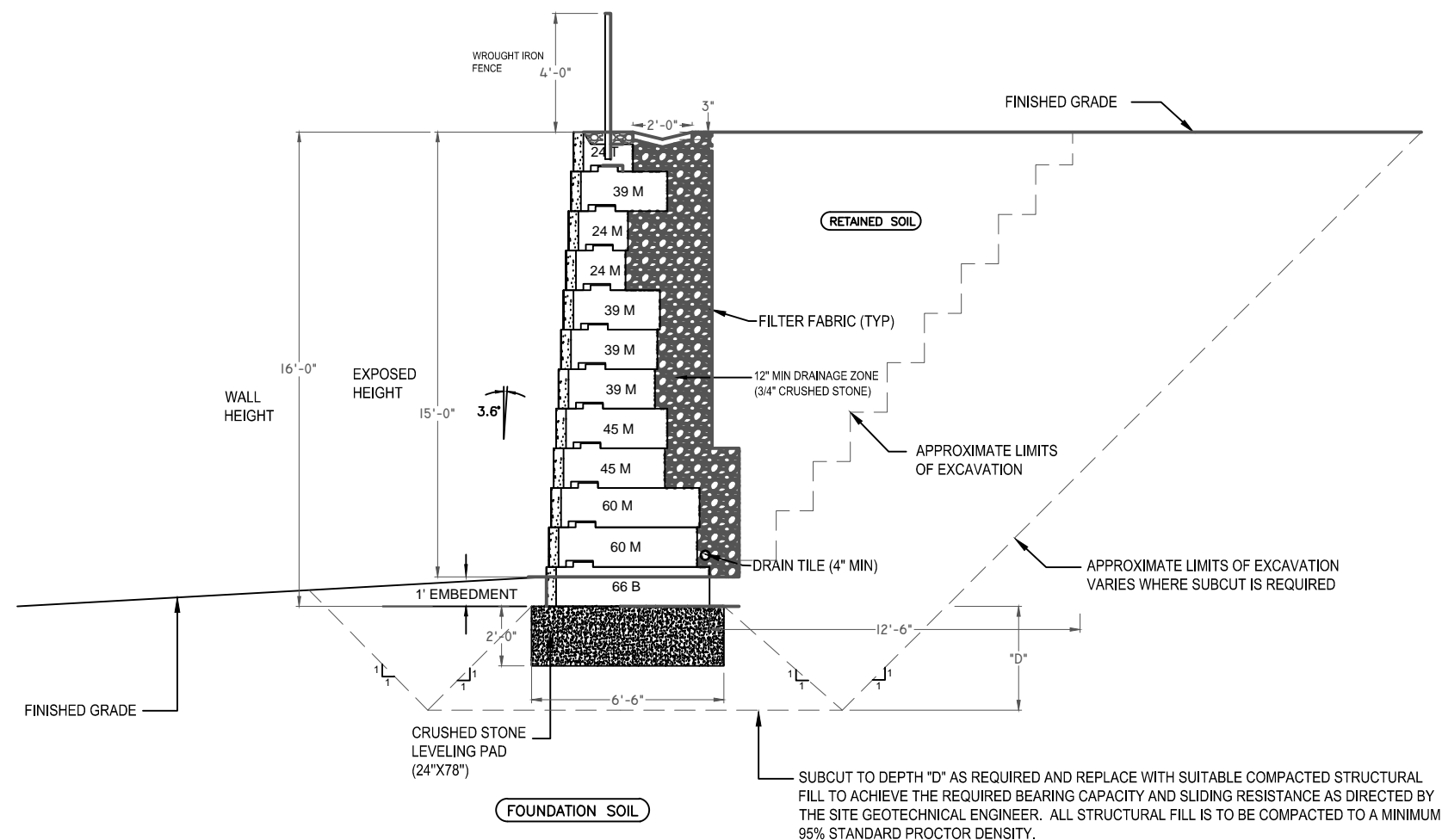
NOTES:

- 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.
- 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.
- 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.
- 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", AND 66" DEEP UNITS USING 3.6° BATTER.
- THE WALL SHALL BE BACKFILLED WITH NO. 57 CRUSHED STONE 1 FOOT FROM THE BACK OF THE WALL.
- 6" DIAMETER CORRUGATED PERFORATED PLASTIC DRAINPIPE WRAPPED WITH A GEOTEXTILE FABRIC INSTALLED WITH POSITIVE DRAINAGE. OUTLET DRAINPIPE INTO ONSITE DRAINAGE SYSTEM.
- 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.
- IN THE EVENT A FENCE/TRAFFIC BARRIER IS INSTALLED ON TOP OR NEAR THE BACK OF THE WALL, SEE CONTRACT PLANS FOR FENCE/TRAFFIC BARRIER INSTALLATION DETAILS. SUPERIOR CONCRETE PRODUCTS SHALL NOT BE RESPONSIBLE FOR ANY ADDITIONAL LOADING APPLIED TO THE RETAINING WALLS AS A RESULT OF FENCING OR TRAFFIC BARRIERS.
- AN EXPANSION MATERIAL SHALL BE REQUIRED BETWEEN THE RETAINING WALL BLOCK AND ALL POURED IN PLACE CONCRETE (EXCLUDING THE LEVELING PAD).
- 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.
- 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.
- DURING WALL EXCAVATION, BENCHCUT AS REQUIRED TO FACILITATE BACKFILL OPERATION AND BOND BETWEEN ON SITE MATERIAL AND BACKFILL MATERIAL.
- 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.
- SUPERIOR CONCRETE PRODUCTS SHALL PROACTIVELY COORDINATE RETAINING WALL CONSTRUCTION WITH ALL UTILITY INSTALLATIONS TO MINIMIZE PROJECT DELAYS AND CONSTRUCTION COSTS.
- 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.

NOTES:

- 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.
- NONE OF THE GEOGRIDS OR BACKFILL WILL BE IN EASEMENTS OR UTILITIES.

DISCLAIMER: TO THE BEST OF OUR KNOWLEDGE H&A ENGINEERS, INC., HEREBY STATES THAT THIS PLAN IS AS-BUILT. THE INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.



**WALL 1A: SECTION A-A
STATION 2+30.00**

SUPERIOR CONCRETE PRODUCTS
 1203 RAIDER DRIVE
 EULESS, TX 76040
 PHONE: (817) 277-9255
 FAX: (817) 261-0194
 WEBSITE: WWW.CONCRETEFENCE.COM

No.	Date	Revision	By
1	11/12/2015	Addendum #1	SS
2	12/02/2015	Addendum #3	SS
3	12/18/2015	FOR CONSTRUCTION	SS
4	10/20/2016	AS BUILT DRAWINGS	SS
5			
6			

Designed by: SS	Project: KROGER SW574 ROCKWALL, TX	Sheet No: RW-10
Scale: N.T.S.	Title: CROSS SECTION - WALL 1A	Job No: 4344
Date: 10/21/2015		

STATE OF TEXAS
 JAY L. HANSEN
 46402
 REGISTERED PROFESSIONAL ENGINEER
 10-20-16
 TBPE FIRM REGISTRATION NUMBER F-753
 DATE

H & A Engineers, Inc.
 TBPE Firm Registration #F-753

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.
5. THE RETAINING WALL SHALL BE CONSTRUCTED WITH RECON SERIES 50: 24", 39", 60", 66", 72", 78", AND 84" DEEP UNITS USING 3.6° BATTER.
6. THE WALL SHALL BE BACKFILLED WITH NO. 57 CRUSHED STONE 1 FOOT FROM THE BACK OF THE WALL.
7. 4" DIAMETER CORRUGATED PERFORATED PLASTIC DRAINPIPE WRAPPED WITH A GEOTEXTILE FABRIC INSTALLED WITH POSITIVE DRAINAGE. OUTLET DRAINPIPE INTO ONSITE DRAINAGE SYSTEM.
8. 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.
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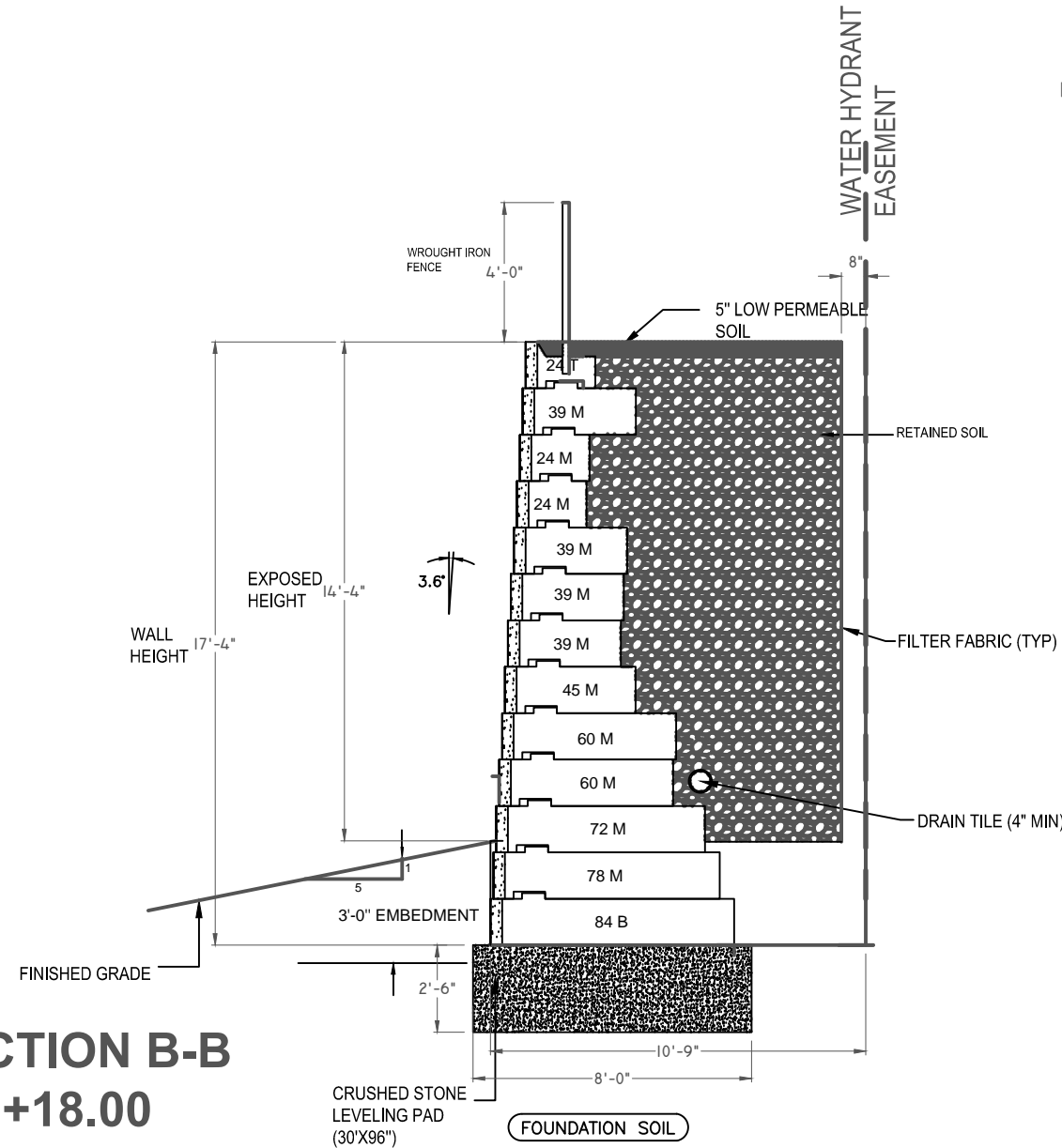
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16. DO NOT BRING HEAVY COMPACTION OR PAVING EQUIPMENT WITHIN 3 FEET OF THE BACK OF THE RETAINING WALL. ONLY HAND-OPERATED COMPACTION EQUIPMENT (E.G. TAMPER, PLATE COMPACTOR, SHEEP'S FOOT ROLLER) SHALL BE USED WITHIN 3 FEET OF THE BACK OF THE RETAINING WALL UNITS.
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**WALL 1B: SECTION B-B
STATION 2+18.00**



1203 RAIDER DRIVE
EULESS, TX
76040
PHONE: (817) 277-9255
FAX: (817) 261-0194
WEBSITE: WWW.CONCRETEFENCE.COM

No.	Date	Revision	By
1	11/12/2015	Addendum #1	SS
2	12/02/2015	Addendum #3	SS
3	12/18/2015	FOR CONSTRUCTION	SS
4	10/20/2016	AS BUILT DRAWINGS	SS
5			
6			

Designed by:
SS
Scale:
N.T.S.
Date:
10/21/2015

Project:
KROGER SW574
ROCKWALL, TX
Title:
CROSS SECTION - WALL 1B
(GRAVITY)

Sheet No:
RW-11
Job No:
4344



TBPE FIRM REGISTRATION NUMBER F-753

H & A Engineers, Inc.
TBPE Firm Registration #F-753

DATE

NOTES:

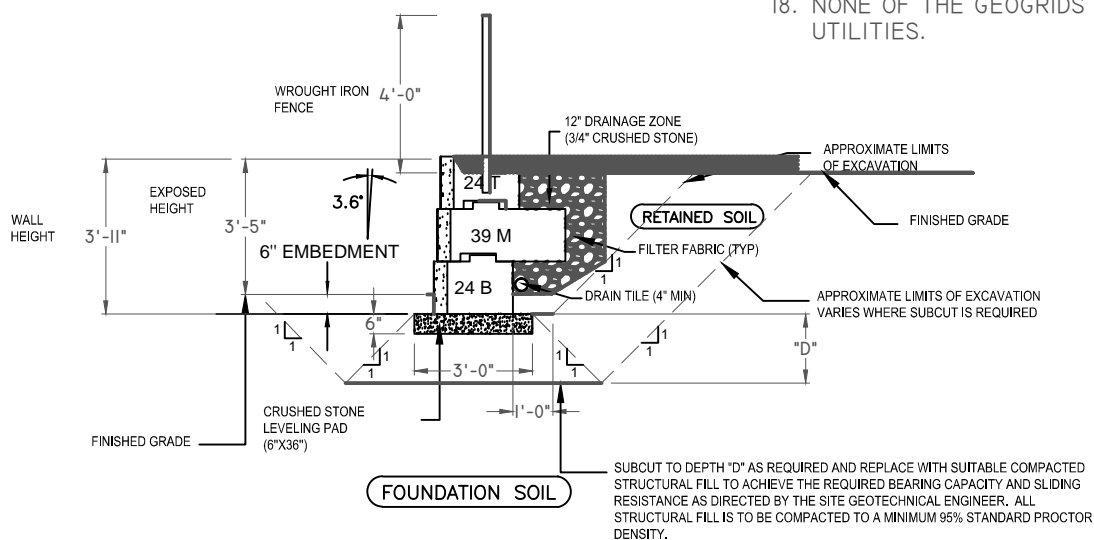
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**WALL 2: SECTION E-E
STATION 0+14.00**

DISCLAIMER: TO THE BEST OF OUR KNOWLEDGE H&A ENGINEERS, INC., HEREBY STATES THAT THIS PLAN IS AS-BUILT. THE INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.



1203 RAIDER DRIVE
EULESS, TX
76040
PHONE: (817) 277-9255
FAX: (817) 261-0194
WEBSITE: WWW.CONCRETEFENCE.COM

No.	Date	Revision	By
1	11/12/2015	Addendum #1	SS
2	12/02/2015	Addendum #3	SS
3	12/18/2015	FOR CONSTRUCTION	SS
4	10/20/2016	AS BUILT DRAWINGS	SS
5			
6			

Designed by: SS	Project: KROGER SW574 ROCKWALL, TX	Sheet No: RW-12
Scale: N.T.S.	Title: CROSS SECTION - WALL 2	Job No: 4344
Date: 10/21/2015		



TBPE FIRM REGISTRATION NUMBER F-753

DATE

H & A Engineers, Inc.
TBPE Firm Registration #F-753

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.
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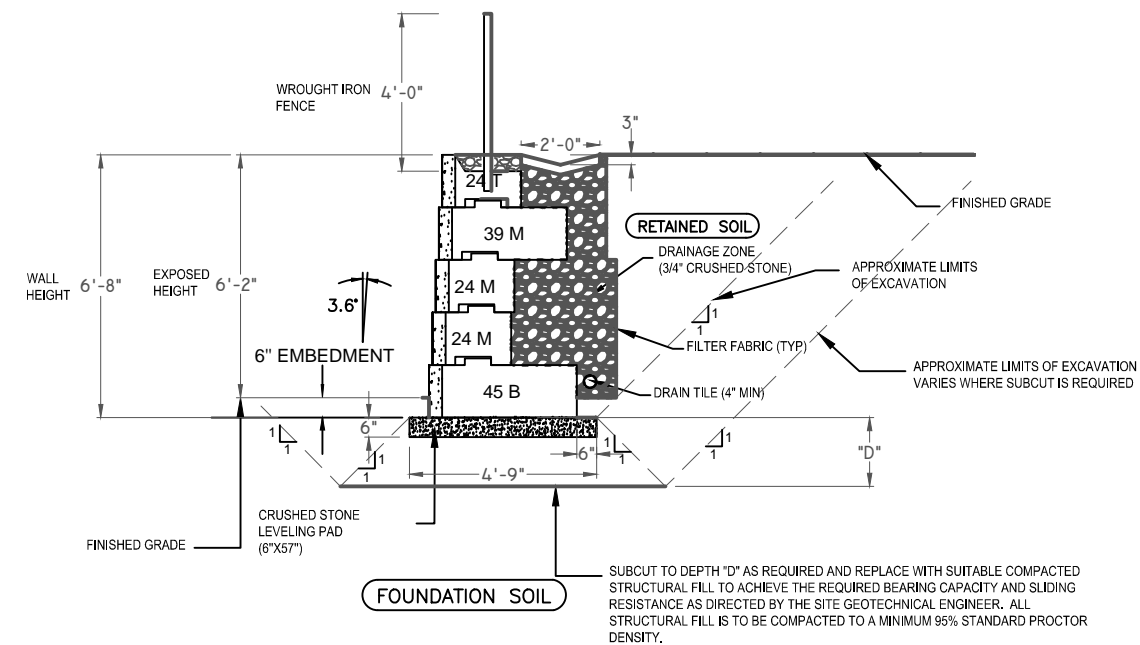
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**WALL 3: SECTION D-D
STATION 1+60.00**



SUPERIOR CONCRETE PRODUCTS
 1203 RAIDER DRIVE
 EULESS, TX 76040
 PHONE: (817) 277-9255
 FAX: (817) 261-0194
 WEBSITE: WWW.CONCRETEFENCE.COM

No.	Date	Revision	By
1	11/12/2015	Addendum #1	SS
2	12/02/2015	Addendum #3	SS
3	12/18/2015	FOR CONSTRUCTION	SS
4	10/20/2016	AS BUILT DRAWINGS	SS
5			
6			

Designed by: SS	Project: KROGER SW574 ROCKWALL, TX	Sheet No: RW-13
Scale: N.T.S.	Title: CROSS SECTION - WALL 3	Job No: 4344
Date: 10/21/2015		

TBPE FIRM REGISTRATION NUMBER F-753

DATE

H & A Engineers, Inc.
 TBPE Firm Registration #F-753

NOTES:

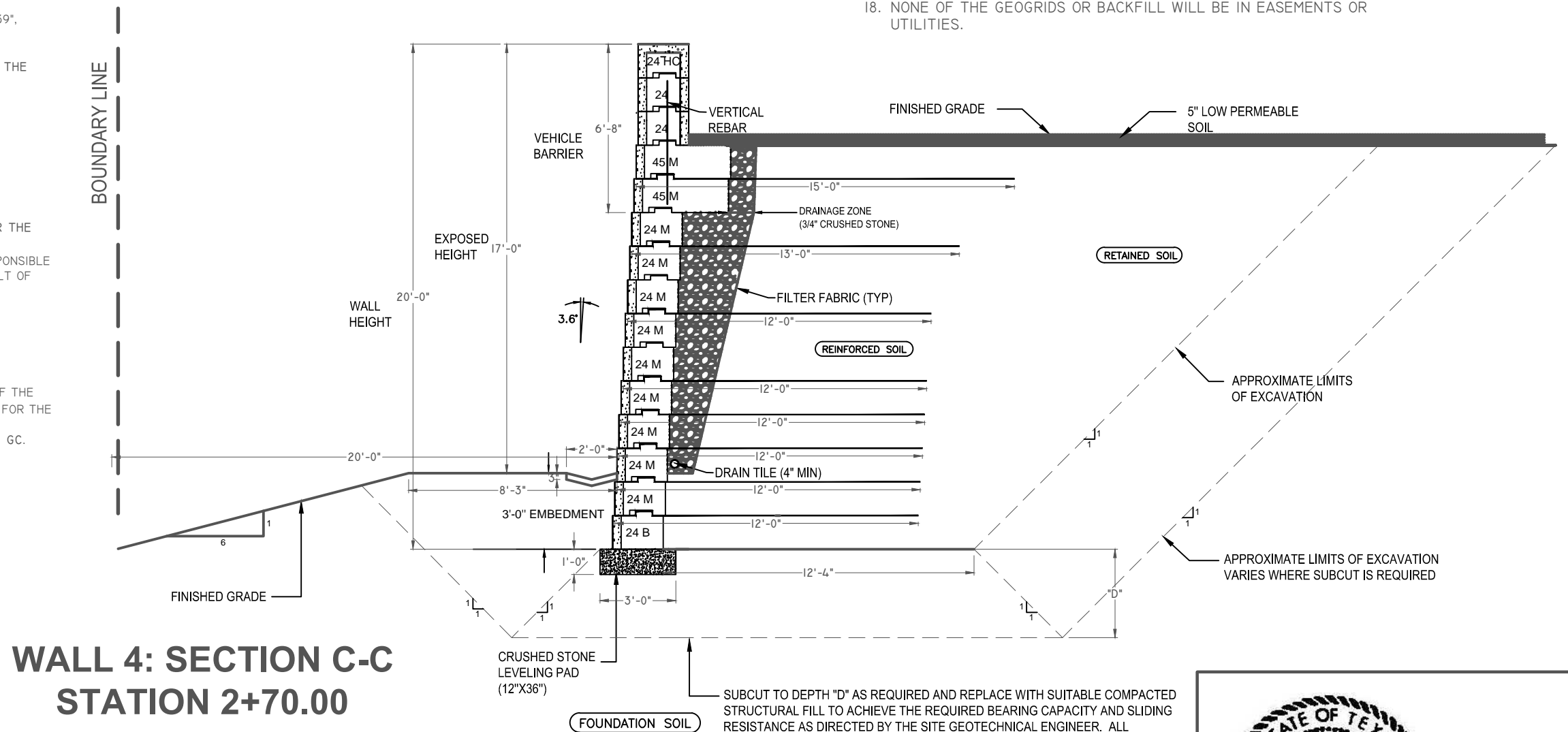
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**WALL 4: SECTION C-C
STATION 2+70.00**

DISCLAIMER: TO THE BEST OF OUR KNOWLEDGE H&A ENGINEERS, INC., HEREBY STATES THAT THIS PLAN IS AS-BUILT. THE INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

SUBCUT TO DEPTH "D" AS REQUIRED AND REPLACE WITH SUITABLE COMPACTED STRUCTURAL FILL TO ACHIEVE THE REQUIRED BEARING CAPACITY AND SLIDING RESISTANCE AS DIRECTED BY THE SITE GEOTECHNICAL ENGINEER. ALL STRUCTURAL FILL IS TO BE COMPACTED TO A MINIMUM 95% STANDARD PROCTOR DENSITY.



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76040
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No.	Date	Revision	By
1	11/12/2015	Addendum #1	SS
2	12/02/2015	Addendum #3	SS
3	12/18/2015	FOR CONSTRUCTION	SS
4	10/20/2016	AS BUILT DRAWINGS	SS
5			
6			

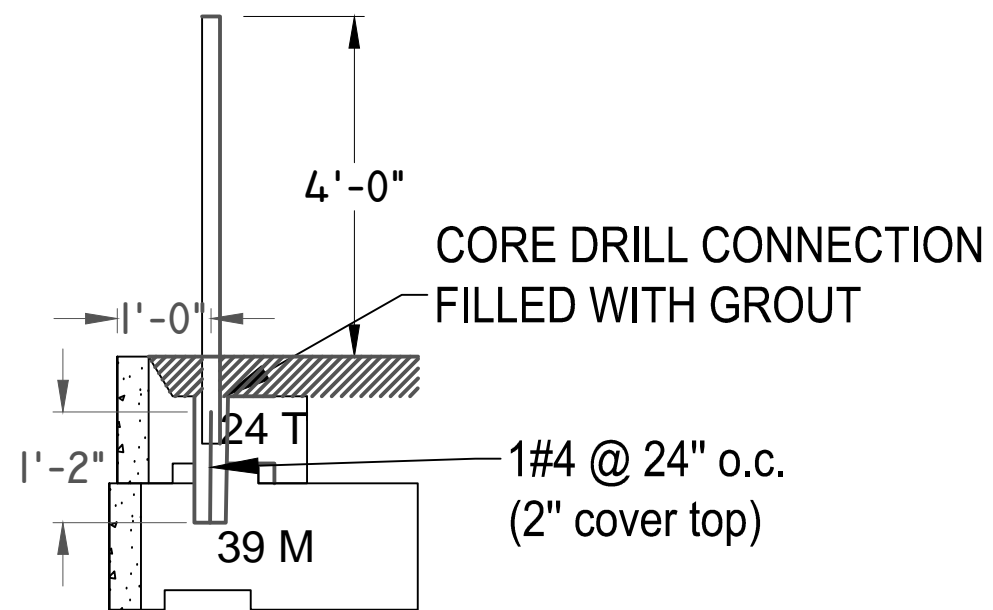
Designed by: SS	Project: KROGER SW574 ROCKWALL, TX	Sheet No: RW-14
Scale: N.T.S.	Title: CROSS SECTION - WALL 4	Job No: 4344
Date: 10/21/2015		



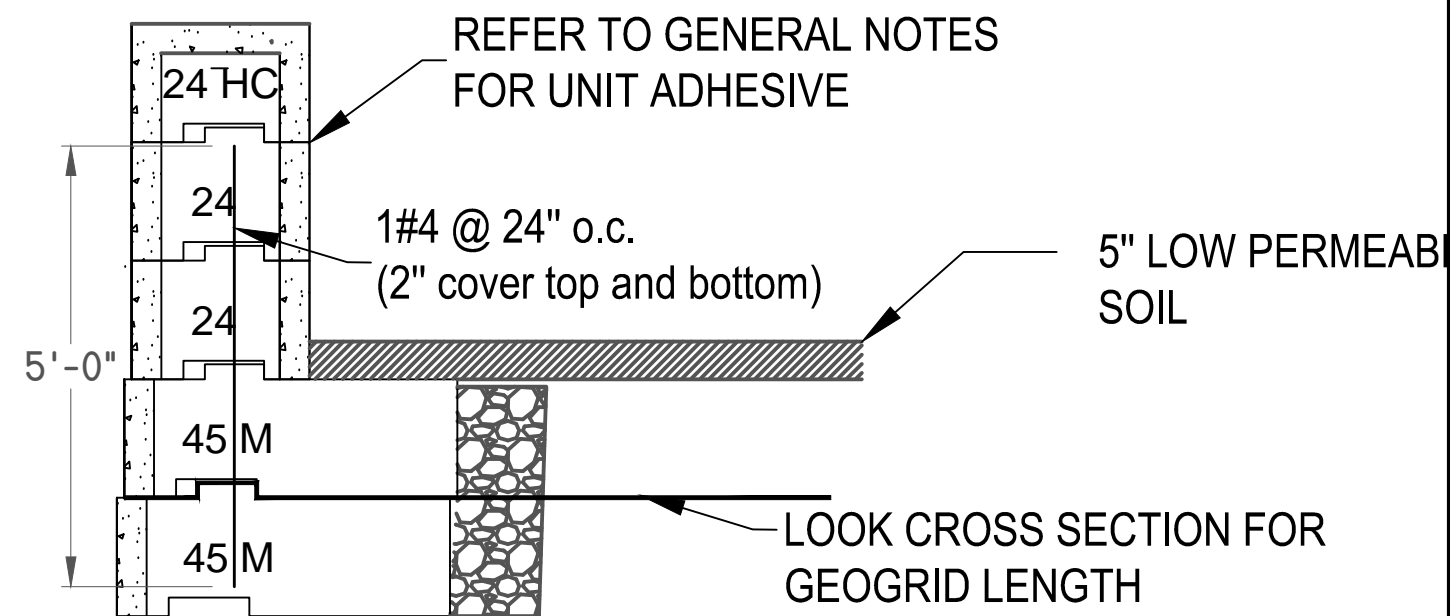
TBPE FIRM REGISTRATION NUMBER F-753

H & A Engineers, Inc.
TBPE Firm Registration #F-753

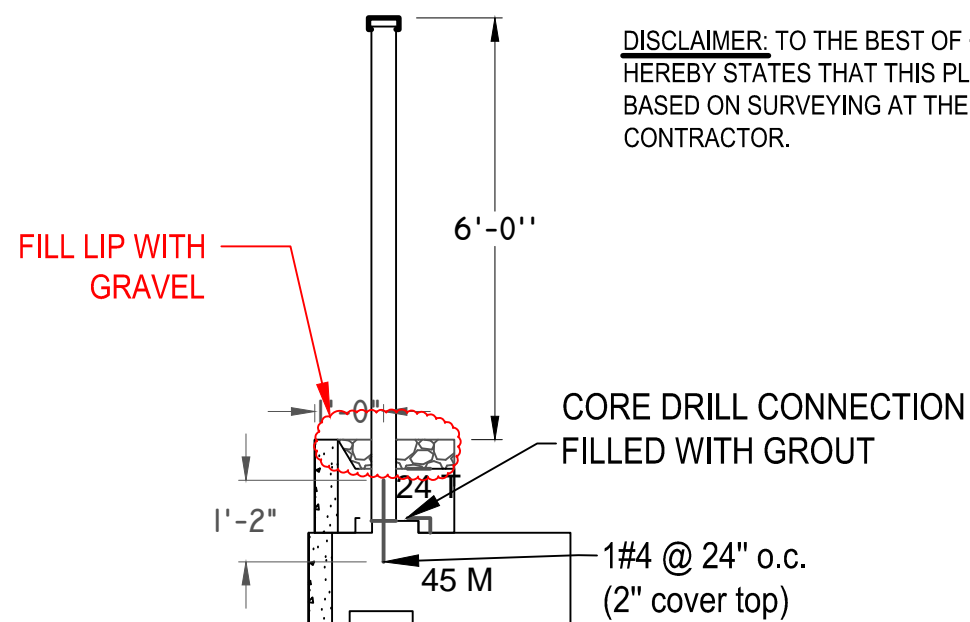
DATE



**WROUGHT IRON FENCE
DETAIL**



**VEHICLE BARRIER
DETAIL**

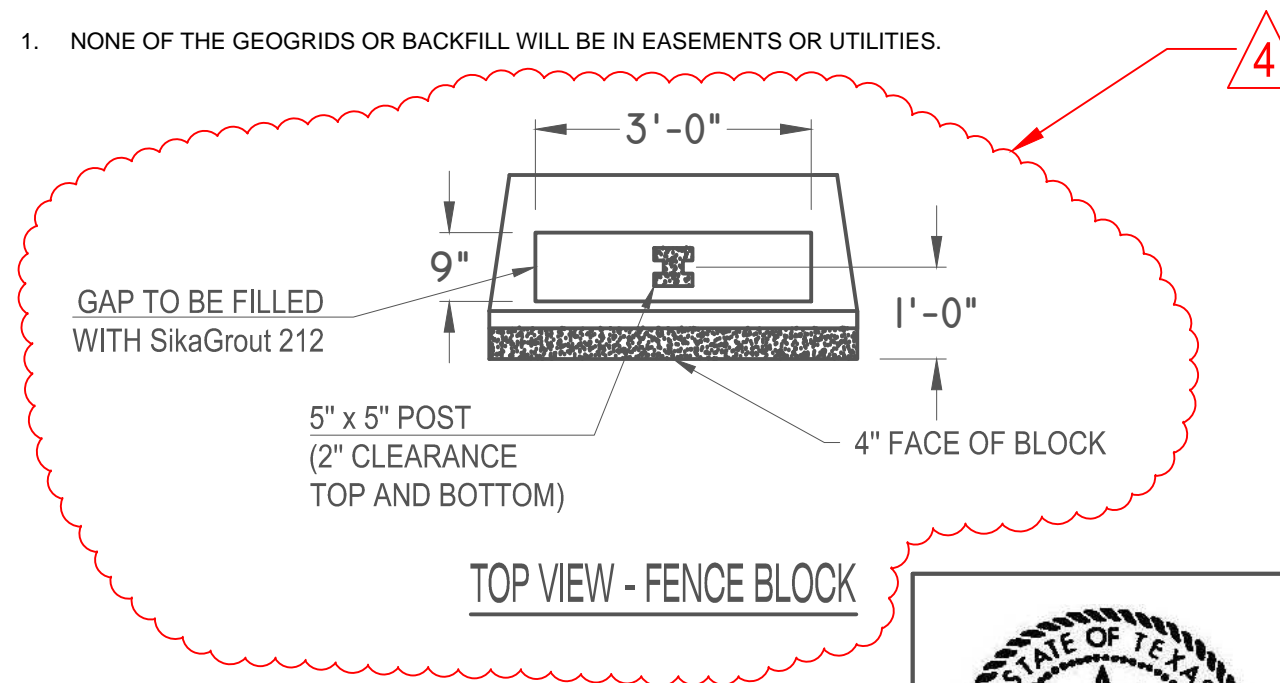


**SUPERIOR COBBLESTONE
FENCE DETAIL**

DISCLAIMER: TO THE BEST OF OUR KNOWLEDGE H&A ENGINEERS, INC., HEREBY STATES THAT THIS PLAN IS AS-BUILT. THE INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

NOTE:

- NONE OF THE GEOGRIDS OR BACKFILL WILL BE IN EASEMENTS OR UTILITIES.



TOP VIEW - FENCE BLOCK



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1	11/12/2015	Addendum #1	SS
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3	12/18/2015	FOR CONSTRUCTION	SS
4	01/22/2016	Details and Notes Addition	SS
5	10/20/2016	AS BUILT DRAWINGS	SS
6			

Designed by: SS	Project: KROGER SW574 ROCKWALL, TX	Sheet No: RW-15
Scale: N.T.S.	Title: CONNECTION DETAILS	Job No: 4344
Date: 10/21/2015		

TBPE FIRM REGISTRATION NUMBER F-753

DATE

H & A Engineers, Inc.
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KROGER SW574 ROCKWALL, TX

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/TECHNICIAN 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.
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.

NOTES:

1. NONE OF THE GEOGRIDS OR BACKFILL WILL BE IN EASEMENTS OR UTILITIES.

DISCLAIMER: TO THE BEST OF OUR KNOWLEDGE H&A ENGINEERS, INC., HEREBY STATES THAT THIS PLAN IS AS-BUILT. THE INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.



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2	12/02/2015	Addendum #3	SS
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4	10/20/2016	AS BUILT DRAWINGS	SS
5			
6			

Designed by: SS	Project: KROGER SW574 ROCKWALL, TX	Sheet No: RW-16
Scale: N.T.S.	Title: QUALITY ASSURANCE NOTES	Job No: 4344
Date: 10/21/2015		



TBPE FIRM REGISTRATION NUMBER F-753

DATE

H & A Engineers, Inc.
TBPE Firm Registration #F-753

NOTES:

- I. 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.
5. THE RETAINING WALL SHALL BE CONSTRUCTED WITH RECON SERIES 50: 24", 39", 60", AND 66" DEEP UNITS USING 3.6° BATTER.
6. THE WALL SHALL BE BACKFILLED WITH NO. 57 CRUSHED STONE 1 FOOT FROM THE BACK OF THE WALL.
7. 4" DIAMETER CORRUGATED PERFORATED PLASTIC DRAINPIPE WRAPPED WITH A GEOTEXTILE FABRIC INSTALLED WITH POSITIVE DRAINAGE. OUTLET DRAINPIPE INTO ONSITE DRAINAGE SYSTEM.
8. 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.
9. IN THE EVENT A FENCE/TRAFFIC BARRIER IS INSTALLED ON TOP OR NEAR THE BACK OF THE WALL, SEE CONTRACT PLANS FOR FENCE/TRAFFIC BARRIER INSTALLATION DETAILS. SUPERIOR CONCRETE PRODUCTS SHALL NOT BE RESPONSIBLE FOR ANY ADDITIONAL LOADING APPLIED TO THE RETAINING WALLS AS A RESULT OF FENCING OR TRAFFIC BARRIERS.
10. AN EXPANSION MATERIAL SHALL BE REQUIRED BETWEEN THE RETAINING WALL BLOCK AND ALL POURED IN PLACE CONCRETE (EXCLUDING THE LEVELING PAD).
- II. 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.

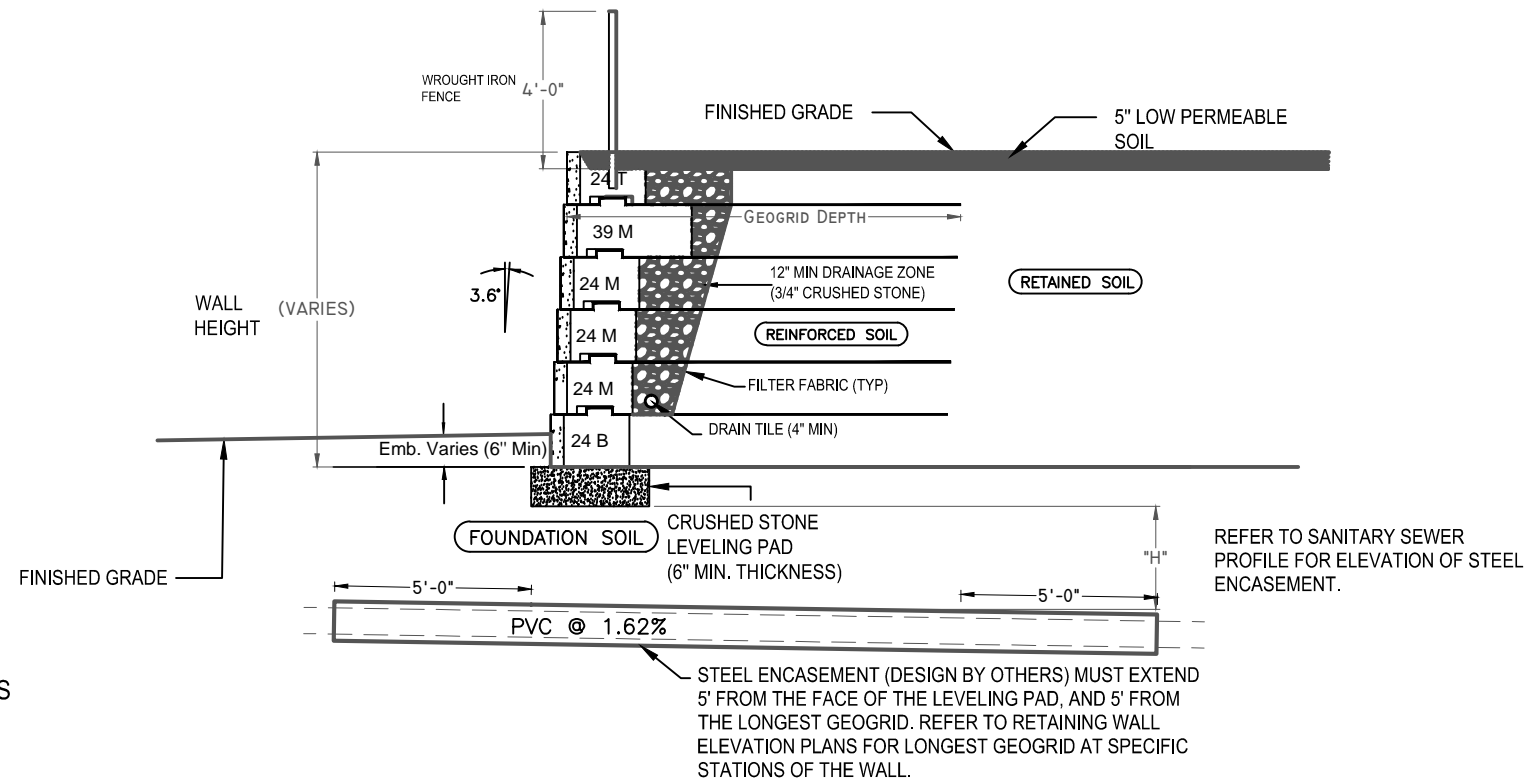
DISCLAIMER: TO THE BEST OF OUR KNOWLEDGE H&A ENGINEERS, INC., HEREBY STATES THAT THIS PLAN IS AS-BUILT. THE INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

NOTES:

12. 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.
13. DURING WALL EXCAVATION, BENCHCUT AS REQUIRED TO FACILITATE BACKFILL OPERATION AND BOND BETWEEN ON SITE MATERIAL AND BACKFILL MATERIAL.
14. 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. NONE OF THE GEOGRIDS OR BACKFILL WILL BE IN EASEMENTS OR UTILITIES.



STEEL ENCASEMENT TYPICAL DETAIL



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1	11/12/2015	Addendum #1	SS
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3	12/18/2015	FOR CONSTRUCTION	SS
4	10/20/2016	AS BUILT DRAWINGS	SS
5			
6			

Designed by: SS	Project: KROGER SW574 ROCKWALL, TX	Sheet No: RW-17
Scale: N.T.S.	Title: STEEL ENCASEMENT DETAIL	Job No: 4344
Date: 10/21/2015		



TBPE FIRM REGISTRATION NUMBER F-753

H & A Engineers, Inc.
TBPE Firm Registration #F-753

DATE

NOTES:

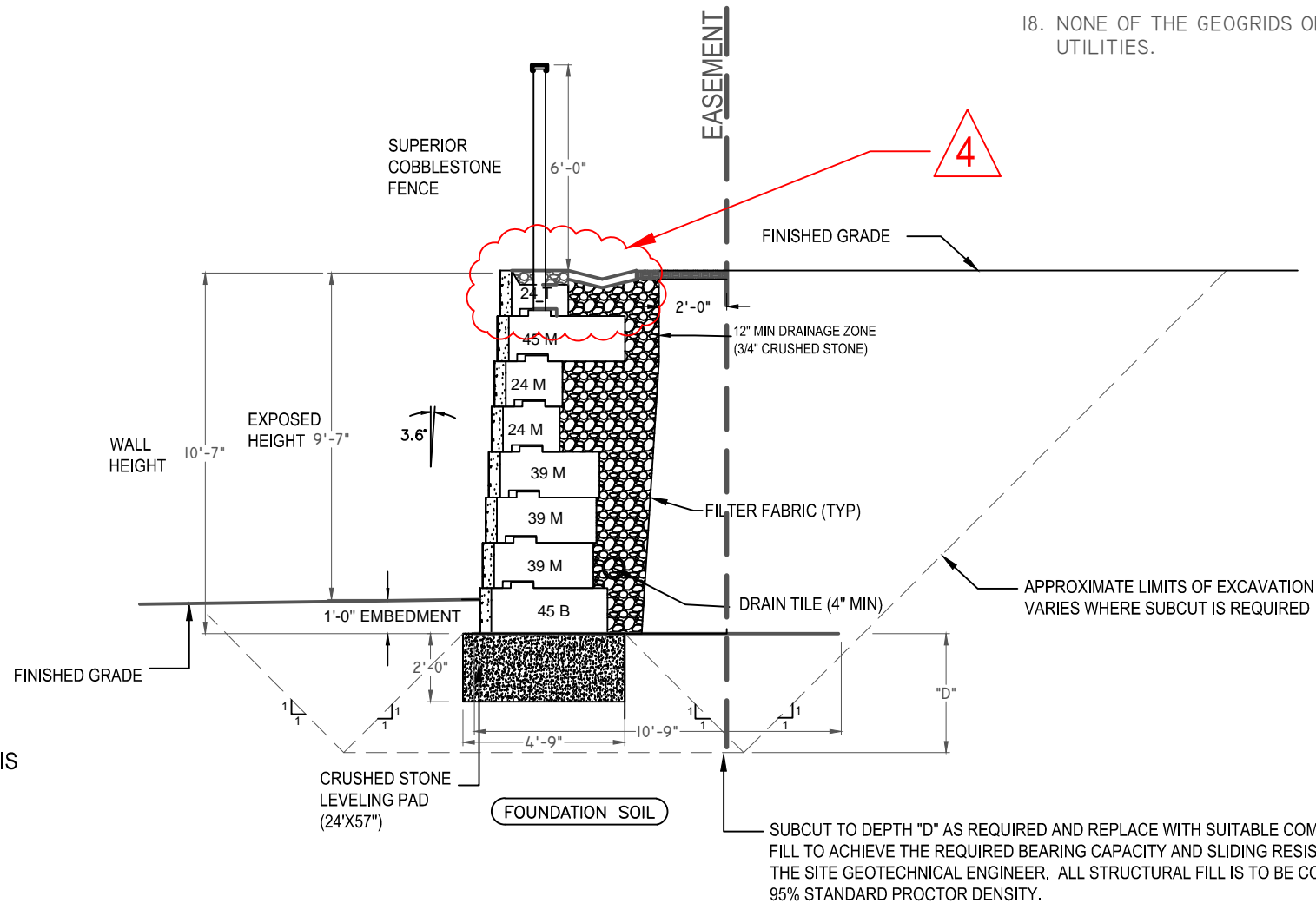
- THE SECTION SHOWN IS A REPRESENTATIVE WALL SECTION. THE WALL HEIGHTS, ELEVATIONS, TOE SLOPES, AND BACK SLOPES VARY ACCORDING TO THE ELEVATION PLAN AND SITE PLAN RESPECTIVELY. SECTIONS AND DETAILS APPLY TO SAME AND SIMILAR CONDITIONS UNLESS SPECIFICALLY NOTED OTHERWISE.
- UPON EXCAVATION, WHERE UNSUITABLE 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.
- 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.
- 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", AND 66" DEEP UNITS USING 3.6° BATTER.
- THE WALL SHALL BE BACKFILLED WITH NO. 57 CRUSHED STONE 1 FOOT FROM THE BACK OF THE WALL.
- 4" DIAMETER CORRUGATED PERFORATED PLASTIC DRAINPIPE WRAPPED WITH A GEOTEXTILE FABRIC INSTALLED WITH POSITIVE DRAINAGE. OUTLET DRAINPIPE INTO ONSITE DRAINAGE SYSTEM.
- 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.
- IN THE EVENT A FENCE/TRAFFIC BARRIER IS INSTALLED ON TOP OR NEAR THE BACK OF THE WALL, SEE CONTRACT PLANS FOR FENCE/TRAFFIC BARRIER INSTALLATION DETAILS. SUPERIOR CONCRETE PRODUCTS SHALL NOT BE RESPONSIBLE FOR ANY ADDITIONAL LOADING APPLIED TO THE RETAINING WALLS AS A RESULT OF FENCING OR TRAFFIC BARRIERS.
- AN EXPANSION MATERIAL SHALL BE REQUIRED BETWEEN THE RETAINING WALL BLOCK AND ALL POURED IN PLACE CONCRETE (EXCLUDING THE LEVELING PAD).
- 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.

NOTES:

- 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.
- DURING WALL EXCAVATION, BENCHCUT AS REQUIRED TO FACILITATE BACKFILL OPERATION AND BOND BETWEEN ON SITE MATERIAL AND BACKFILL MATERIAL.
- 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:

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- 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.
- 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.
- NONE OF THE GEOGRIDS OR BACKFILL WILL BE IN EASEMENTS OR UTILITIES.



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**WALL 1A: SECTION A1-A1
STATION 2+18.00**



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No.	Date	Revision	By
1	11/12/2015	Addendum #1	SS
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3	12/18/2015	FOR CONSTRUCTION	SS
4	01/22/2016	Details and Notes Addition	SS
5	10/20/2016	AS BUILT DRAWINGS	SS
6			

Designed by: SS	Project: KROGER SW574 ROCKWALL, TX	Sheet No: RW-18
Scale: N.T.S.	Title: CROSS SECTION - WALL 1A (A1-A1)	Job No: 4344
Date: 10/21/2015		

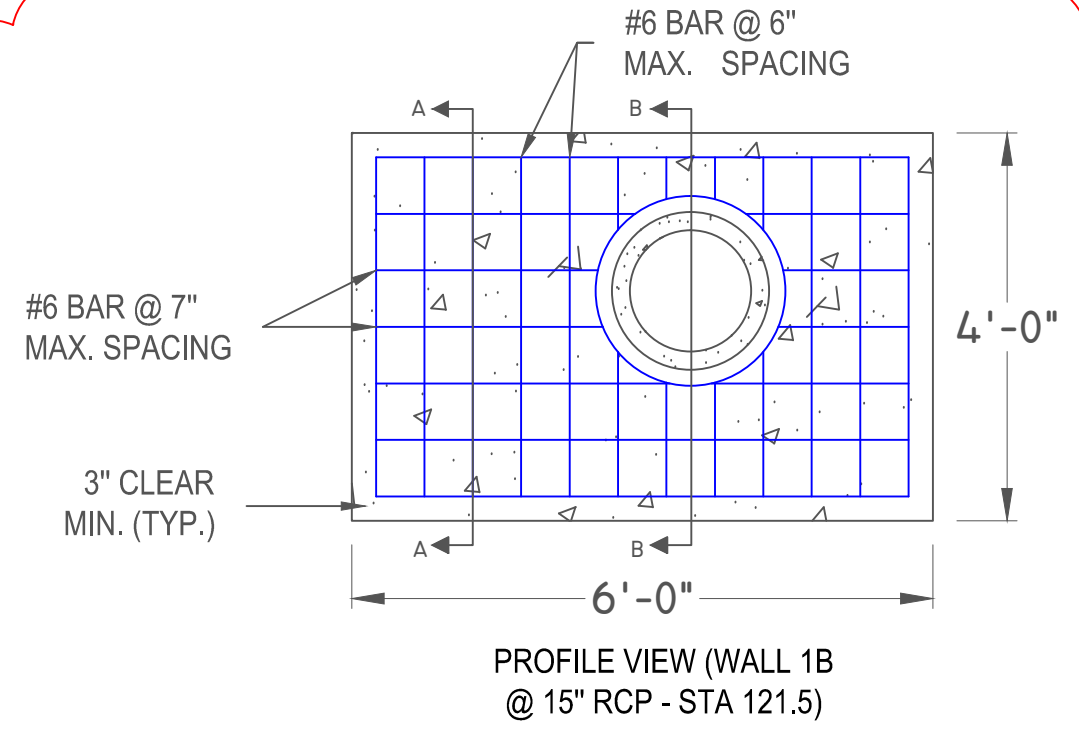


TBPE FIRM REGISTRATION NUMBER F-753

H & A Engineers, Inc.
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DATE

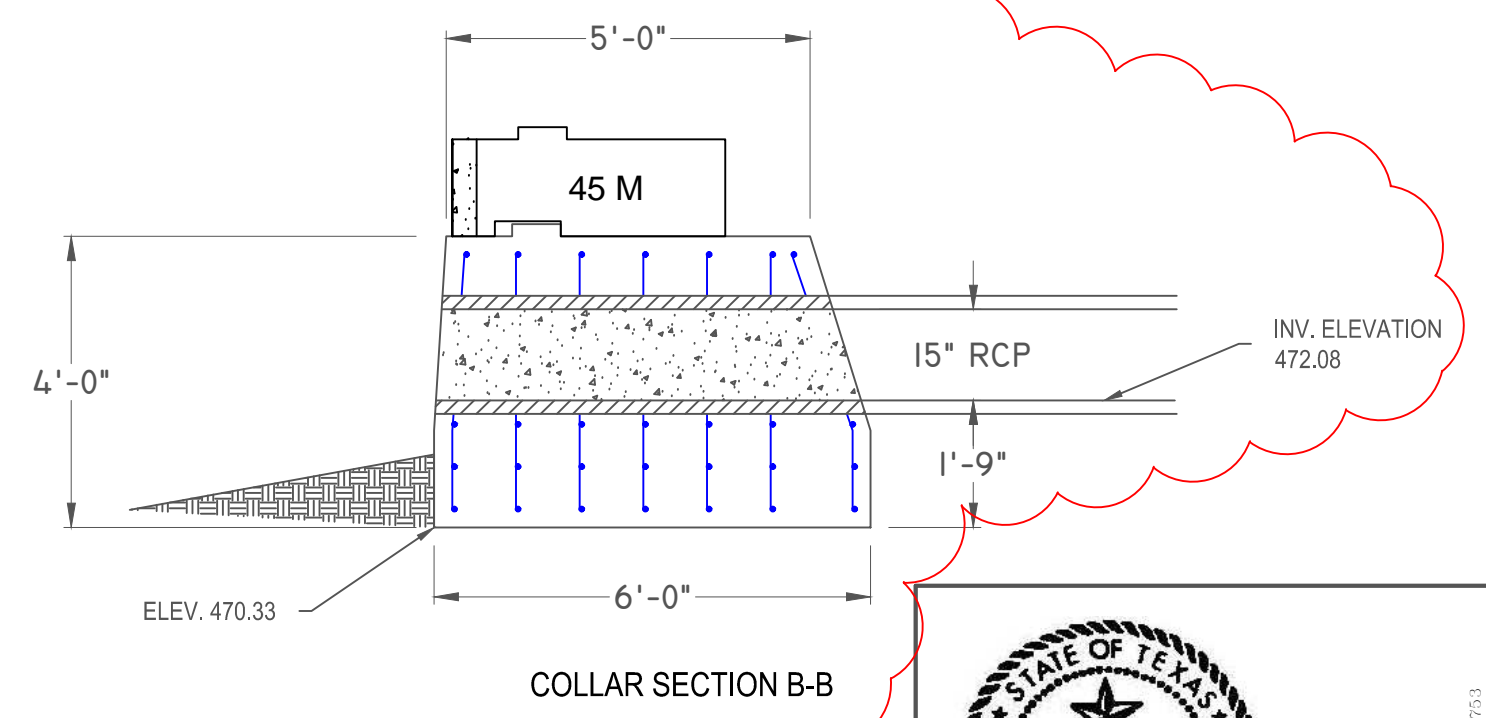
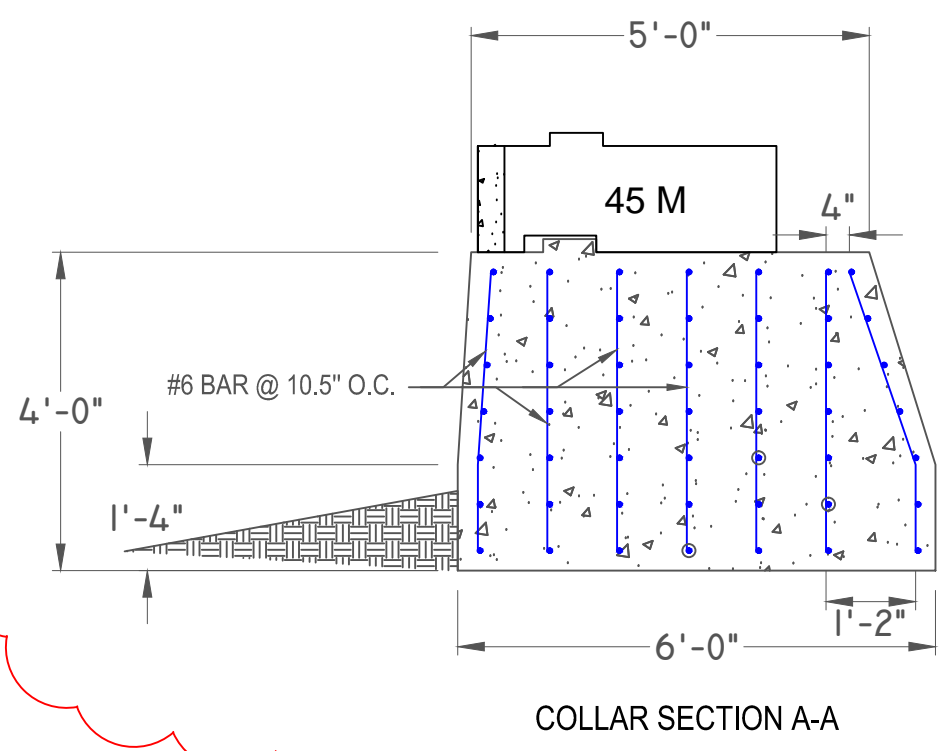
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NOTES:

1. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
2. BEVEL ALL EXPOSED EDGES WITH A 3/4" TRIANGULAR MOLDING OR FINISH WITH AN APPROVED EDGING TOOL.
3. ALL DIMENSIONS ARE RELATIVE TO REINFORCEMENT STEEL ARE TO CENTERLINE OF BAR. ALL BARS SHALL BE EQUALLY SPACED.
4. END CLEARANCES FOR REINFORCING STEEL SHALL BE 3" EXCEPT AROUND RCP WHICH SHALL BE 2". REINFORCING STEEL SHALL BE BENT TO MAINTAIN MINIMUM CLEARANCE.
5. NONE OF THE GEOGRIDS OR BACKFILL WILL BE IN EASEMENTS OR UTILITIES.

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No.	Date	Revision	By
1	01/22/2016	Details and Notes Addition	SS
2	10/20/2016	AS BUILT DRAWINGS	SS
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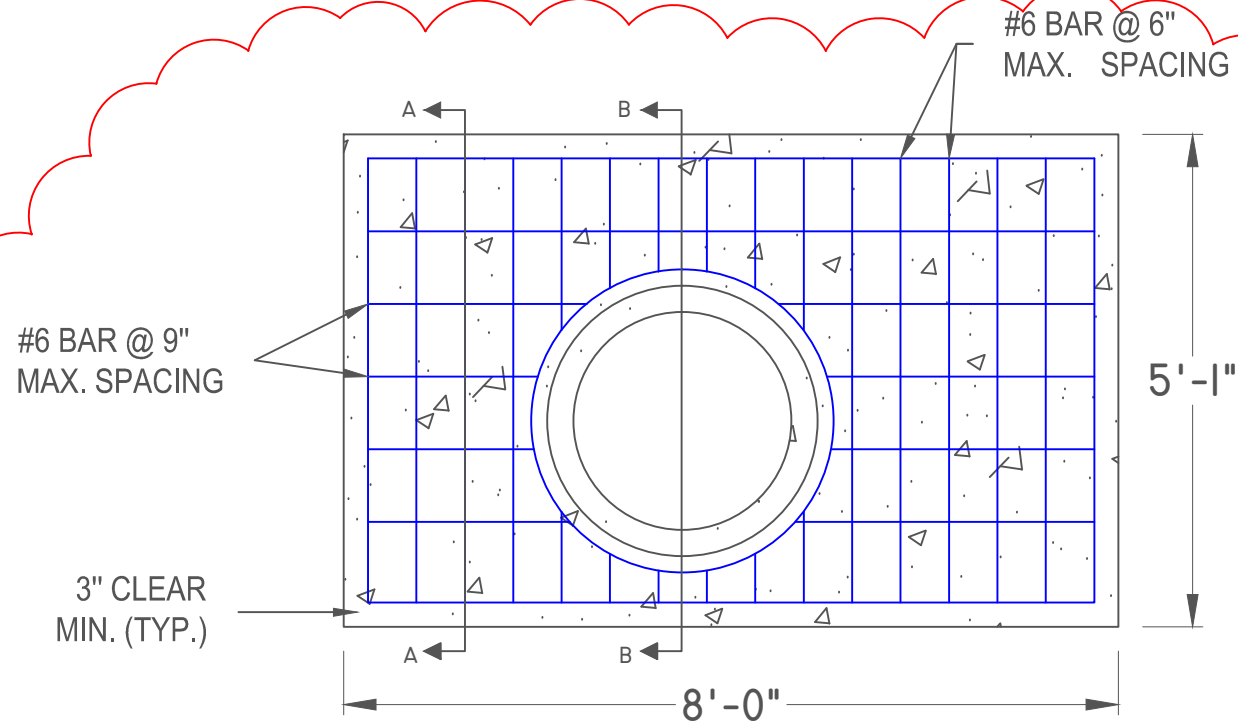
Designed by: SS	Project: KROGER SW574 ROCKWALL, TX	Sheet No: RW-19
Scale: N.T.S.	Title: CONCRETE COLLAR DETAIL (15" RCP)	Job No: 4344
Date: 01/19/2016		



TBPE FIRM REGISTRATION NUMBER F-753

H & A Engineers, Inc.
TBPE Firm Registration #F-753

DATE



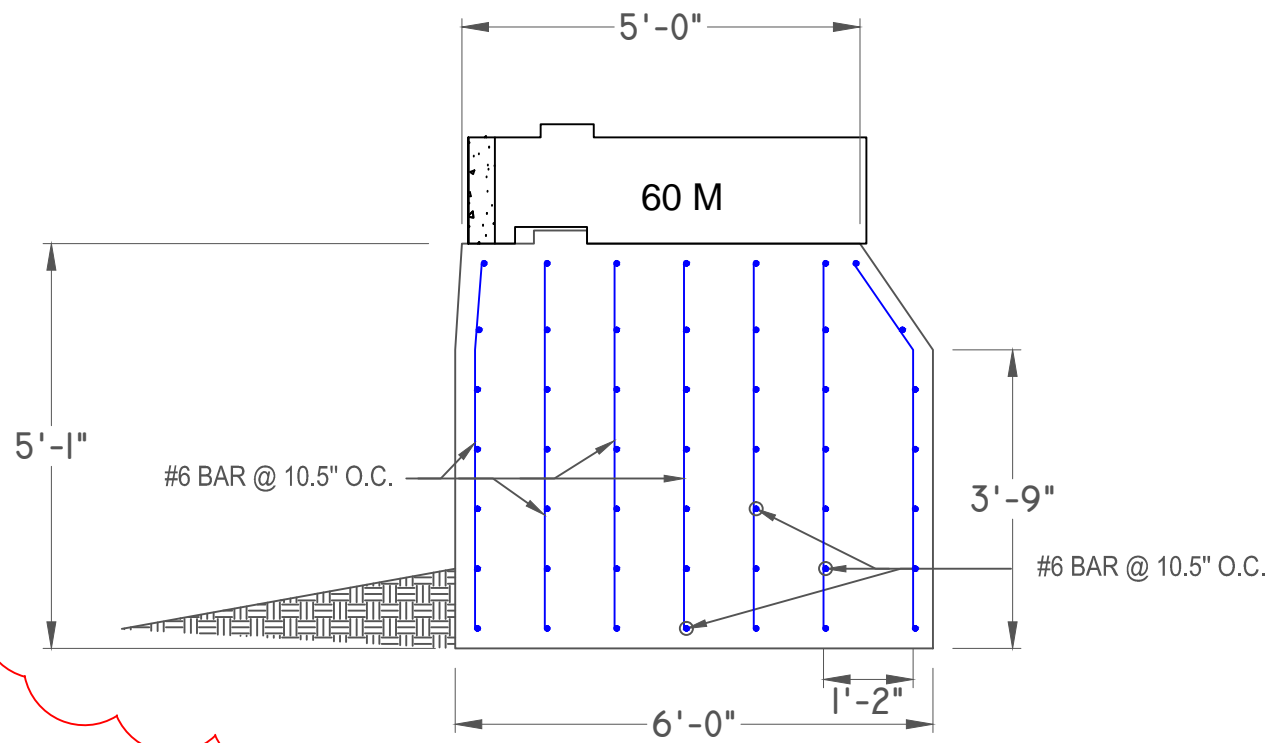
PROFILE VIEW (WALL 1B
@ 27" RCP - STA 301.5)

4

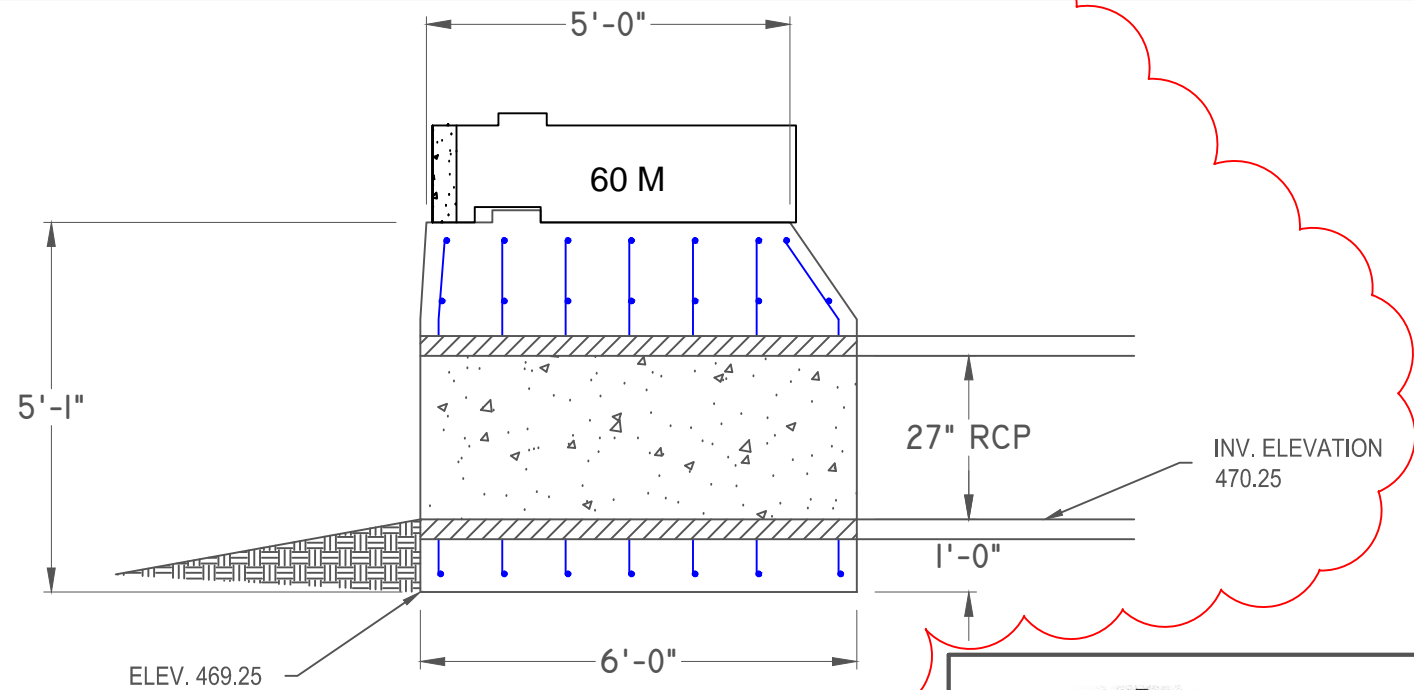
NOTES:

1. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
2. BEVEL ALL EXPOSED EDGES WITH A 3/4" TRIANGULAR MOLDING OR FINISH WITH AN APPROVED EDGING TOOL.
3. ALL DIMENSIONS ARE RELATIVE TO REINFORCEMENT STEEL ARE TO CENTERLINE OF BAR. ALL BARS SHALL BE EQUALLY SPACED.
4. END CLEARANCES FOR REINFORCING STEEL SHALL BE 3" EXCEPT AROUND RCP WHICH SHALL BE 2". REINFORCING STEEL SHALL BE BENT TO MAINTAIN MINIMUM CLEARANCE.
5. NONE OF THE GEOGRIDS OR BACKFILL WILL BE IN EASEMENTS OR UTILITIES.

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COLLAR SECTION A-A



COLLAR SECTION B-B



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No.	Date	Revision	By
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2	10/20/2016	AS BUILT DRAWINGS	SS
3			
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Designed by:
SS
Scale:
N.T.S.
Date:
01/19/2016

Project:
KROGER SW574
ROCKWALL, TX
Title:
CONCRETE COLLAR DETAIL
(27" RCP)

Sheet No:
RW-20
Job No:
4344

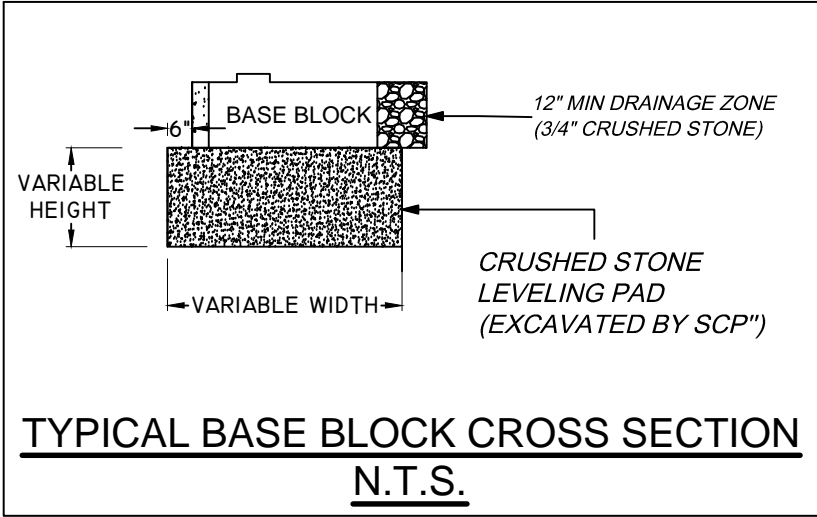
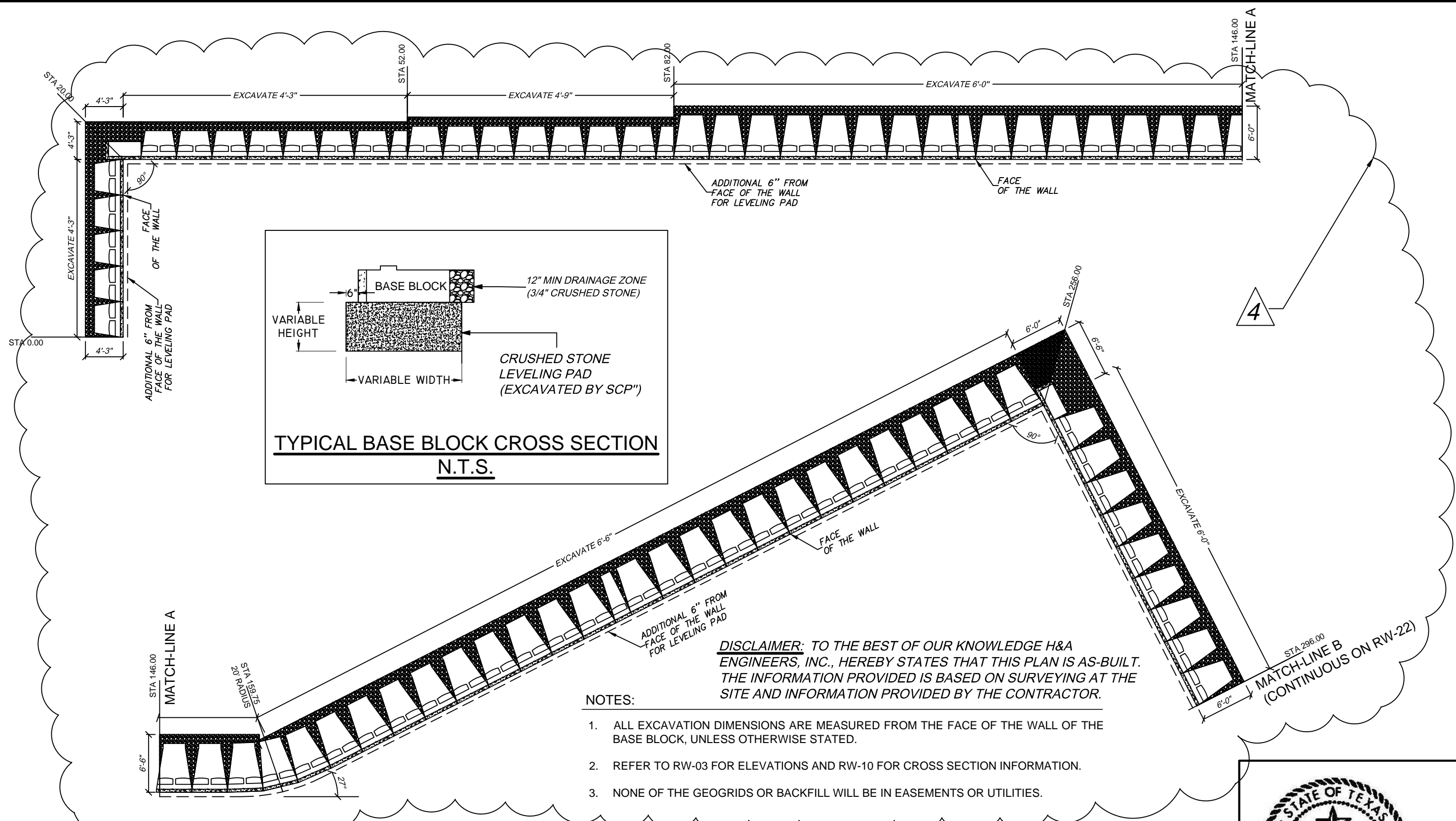


10-20-16

TBPE FIRM REGISTRATION NUMBER F-753

DATE

H & A Engineers, Inc.
TBPE Firm Registration #F-753



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NOTES:

1. ALL EXCAVATION DIMENSIONS ARE MEASURED FROM THE FACE OF THE WALL OF THE BASE BLOCK, UNLESS OTHERWISE STATED.
2. REFER TO RW-03 FOR ELEVATIONS AND RW-10 FOR CROSS SECTION INFORMATION.
3. NONE OF THE GEOGRIDS OR BACKFILL WILL BE IN EASEMENTS OR UTILITIES.

RECON WALL 1A - TOP VIEW (EXCAVATION LIMITS)

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No.	Date	Revision	By
1	01/22/2016	△ Details and Notes Addition	SS
2	10/20/2016	AS BUILT DRAWINGS	SS
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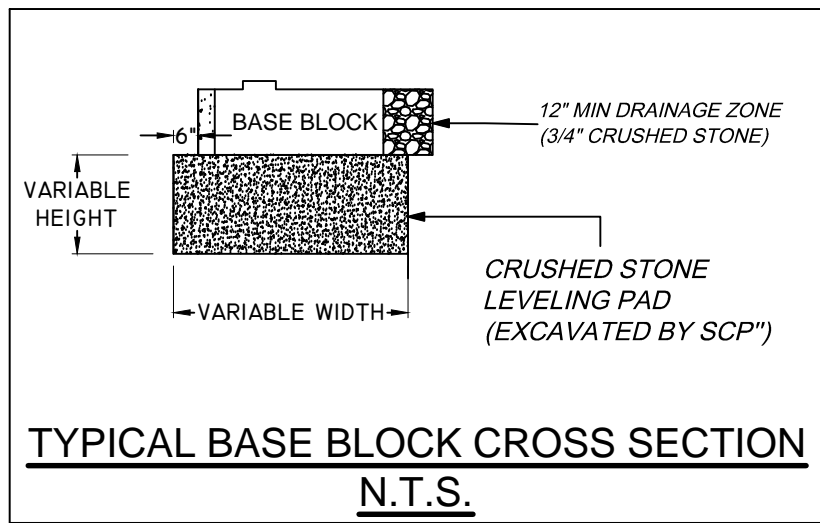
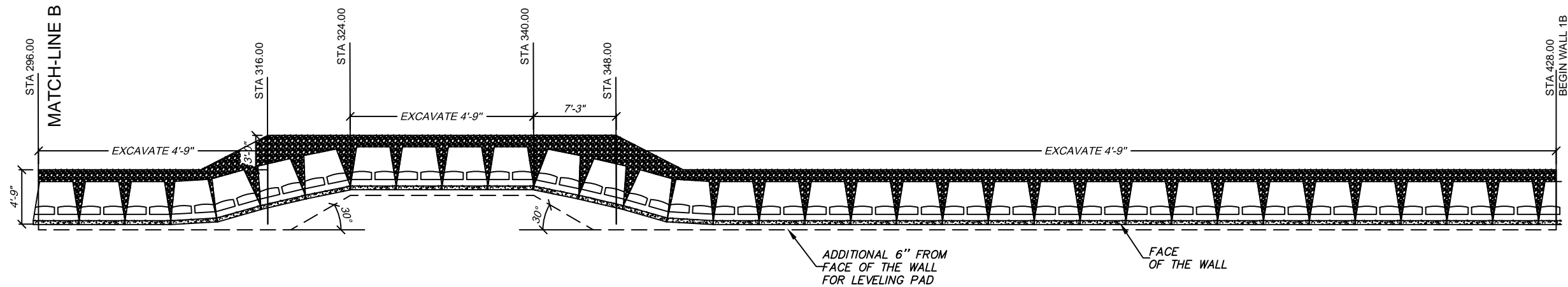
Designed by: SS	Project: KROGER SW574 ROCKWALL, TX	Sheet No: RW-21
Scale: 3/32" = 1'	Title: WALL 1A EXCAVATION LIMITS (1/2)	Job No: 4344
Date: 1/8/2016		



TBPE FIRM REGISTRATION NUMBER F-753

DATE

H & A Engineers, Inc.
TBPE Firm Registration #F-753



NOTES:

1. ALL EXCAVATION DIMENSIONS ARE MEASURED FROM THE FACE OF THE WALL OF THE BASE BLOCK, UNLESS OTHERWISE STATED.
2. REFER TO RW-03 FOR ELEVATIONS AND RW-10 FOR CROSS SECTION INFORMATION.
3. NONE OF THE GEOGRIDS OR BACKFILL WILL BE IN EASEMENTS OR UTILITIES.

4

DISCLAIMER: TO THE BEST OF OUR KNOWLEDGE H&A ENGINEERS, INC., HEREBY STATES THAT THIS PLAN IS AS-BUILT. THE INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

RECON WALL 1A - TOP VIEW (EXCAVATION LIMITS)



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 WEBSITE: WWW.CONCRETEFENCE.COM

No.	Date	Revision	By
1	01/22/2016	Details and Notes Addition	SS
2	10/20/2016	AS BUILT DRAWINGS	SS
3			
4			
5			
6			

Designed by: SS	Project: KROGER SW574 ROCKWALL, TX	Sheet No: RW-22
Scale: 3/32" = 1'	Title: WALL 1A EXCAVATION LIMITS (2/2)	Job No: 4344
Date: 1/8/2016		